BALDWIN ELEMENTARY SCHOOL MODERNIZATION

280 MARTINVALE LN, SAN JOSE, CA 95119

OAK GROVE SCHOOL DISTRICT

CONSTRUCTION DOCUMENTS

DSA FILE NUMBER 43-41
DSA APP. NUMBER 01-122542
PTN 69625-150

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	RE.	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

BOARD OF TRUSTEES

NANCY YUE	(PRESIDENT)
FRANCES HERBERT	(VICE PRESIDENT)
OTILA CALAZAR TORRES	(TRUSTEE)
DIEGO MARTINEZ	(TRUSTEE)
[VACANT]	(TRUSTEE)

DISTRICT SUPERINTENDANT
DR. IVAN CHAIDEZ

CONSULTANTS

STRUCTURAL

BASE DESIGN, INC.
582 MARKET ST., #1402
SAN FRANCISCO, CA 94104
(415) 466-2997

MECHANICAL

CAPITAL ENGINEERING
11020 SUN CENTER DR., STE 100
RANCHO CORDOVA, CA 95670
(916) 851-3500

FIRE PROTECTION

CAPITAL ENGINEERING
11020 SUN CENTER DR., STE 100
RANCHO CORDOVA, CA 95670
(916) 851-3500

OWNER

OAK GROVE SCHOOL DISTRICT
6579 SANTA TERESA BLVD.
SAN JOSE, CA 95119
(408) 227-9300

PLUMBING

CAPITAL ENGINEERING
11020 SUN CENTER DR., STE 100
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ELECTRICAL

ATIUM ENGINEERING
3533 YORK LANE
SAN RAMON, CA 94582
(913) 961-1658

TECHNOLOGY

ATIUM ENGINEERING
3533 YORK LANE
SAN RAMON, CA 94582
(913) 961-1658

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 WHEREBY 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, 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. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN FIRE LIFE SAFETY PLAN PER DSA BU 24-05. CONTRACTOR TO PROVIDE DSA PRIOR TO THE START OF CONSTRUCTION.
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

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
ASME 17.1	2019 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2019/CSA B44)	2019 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 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2019 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
ICC 300	BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS	2017 EDITION

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
REVISION MARKER
Room name — ROOM LABEL
100a — 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
SIM
A12.08
REFERENCE LABEL WHERE OCCURES
SHEET NUMBER

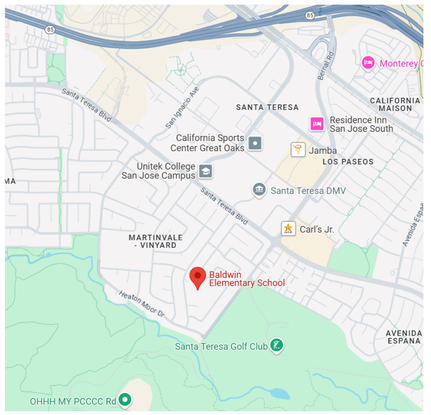
DETAIL REFERENCE

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

DEFERRED APPROVAL ITEMS

1. NONE

LOCATION MAP



SCOPE OF WORK

THIS PROJECT INCLUDES MODERNIZATION OF BUILDINGS A, B, AND C. AT BUILDING A ALTERATIONS INCLUDE ARCHITECTURAL FINISHES, RESTROOM IMPROVEMENTS, ACCESSIBILITY IMPROVEMENTS, ELECTRICAL UPGRADES, AND FIRE PROTECTION ALTERATIONS. BUILDINGS A, B, AND C INCLUDE FIRE PROTECTION ALTERATIONS.

SITEWORK INCLUDES PAVEMENT REGRADING, SITE LIGHTING, ADDED GATES, AND ADDED PASSENGER DROP OFF.

ALTERNATIVES

ALTERNATIVE 1: SEE KEYNOTES 02.241, 02.255, 09.905, 09.906. IN ROOMS KINDERGARTEN 01 AND CLASSROOMS 02 - 18, EXCLUDE FROM SCOPE NEW PULLS AND ARCHITECTURAL FILM REFINISHING AT EXISTING CASEWORK. REMOVE EXISTING CASEWORK. PROVIDE ONE FULL HEIGHT CABINET AND TWO LOWER CABINETS WITH SOLID SURFACE COUNTER PER ROOM.

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. 01-122542 , File No. 43-41)

☒ 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: ☒ All drawings or sheet listed on the cover or index sheet
☐ This drawing or page

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

Signature	**Date** 4/10/27
Architect designated to be in general responsible charge	
Print Name JOHN DIFFENDERFER	
License Number C-25840	**Expiration Date** 7/31/27

DRAWING INDEX

T1 TITLE SHEET

CIVIL
C0.1 NOTES, LEGEND & INDEX
* C1.1 DEMOLITION PLAN
C2.1 GRADING AND DRAINAGE PLAN
C3.1 UNDERGROUND UTILITY PLAN
C4.1 HORIZONTAL CONTROL PLAN
C5.1 EROSION CONTROL PLAN
C6.1 DETAILS

ARCHITECTURAL
A0.04 CAMPUS EGRESS PLAN
A0.05 EXIT ANALYSIS - BUILDING A
A1.02 NEW SITE PLAN & FIRE ACCESS PLAN & CAMPUS BLDG. CODE ANALYSIS
A1.05 SITE DETAILS
A2.01 DEMOLITION FLOOR PLAN - BUILDING A, PART A
A2.02 DEMOLITION FLOOR PLAN - BUILDING A, PART B
A2.11 DEMOLITION REFLECTED CEILING PLAN - BUILDING A, PART A
A2.12 DEMOLITION REFLECTED CEILING PLAN - BUILDING A, PART B
A3.01 NEW FLOOR PLAN - BUILDING A, PART A
A3.01B NEW FINISH FLOOR PLAN - BUILDING A, PART A
A3.02 NEW FLOOR PLAN - BUILDING A, PART B
A3.02B NEW FINISH FLOOR PLAN - BUILDING A, PART B
A3.10 DEMOLITION ENLARGED RESTROOM PLANS & ELEVATIONS
A3.11 NEW ENLARGED RESTROOM PLANS, ELEVATIONS & DETAILS
A3.12 NEW ENLARGED RESTROOM PLANS, ELEVATIONS & DETAILS
A4.01 NEW REFLECTED CEILING PLAN - BUILDING A, PART A
A4.02 NEW REFLECTED CEILING PLAN - BUILDING A, PART B
A6.01 EXTERIOR ELEVATIONS, BLDG A.
A6.02 EXTERIOR ELEVATIONS, BLDG. CLUSTERS B & C
A7.01 BUILDING SECTIONS - EAST-WEST
A7.02 BUILDING SECTIONS - NORTH-SOUTH
A8.01 WALL SECTIONS
A8.02 WALL SECTIONS
A9.01 WALL TYPES
A9.10 INTERIOR DETAILS
A9.11 INTERIOR DETAILS
A10.01 OPENING SCHEDULE & TYPES
A10.02 OPENING DETAILS
A10.03 OPENING DETAILS
A11.01 FINISH SCHEDULE, LEGEND & DETAILS
A11.10 CASEWORK SCHEDULE & DETAILS
A12.01 INTERIOR ELEVATIONS
A12.02 INTERIOR ELEVATIONS
A12.03 INTERIOR ELEVATIONS

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S1.00 GENERAL NOTES
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S2.02 PARTIAL FOUNDATION PLAN - PART B
S2.03 PARTIAL ROOF FRAMING PLAN - PART A
S2.04 PARTIAL ROOF FRAMING PLAN - PART B
S5.01 TYPICAL CONCRETE DETAILS
* S8.00 NAILING SCHEDUL
S8.01 FRAMING DETAILS

MECHANICAL
M001 HVAC LEGEND AND NOTES
M201 HVAC DEMO FLOOR PLAN -BUILDING A - PART A
M202 HVAC DEMO FLOOR PLAN - BUILDING A - PART B
M203 HVAC NEW FLOOR PLAN - BUILDING A - PART A
M204 HVAC NEW FLOOR PLAN - BUILDING A - PART B
M501 HVAC DETAILS

PLUMBING
P0.01 PLUMBING COVER SHEET
P0.02 PLUMBING FIXTURE SCHEDULE
P2.01 PLUMBING DEMO FLOOR PLAN - PART A
P2.02 PLUMBING DEMO FLOOR PLAN - PART B
P3.01 PLUMBING NEW FLOOR PLAN - PART A
P3.02 PLUMBING NEW FLOOR PLAN - PART B
P3.10 PLUMBING DEMO ENLARGED FLOOR PLANS
P3.11 PLUMBING NEW ENLARGED FLOOR PLANS
P5.01 PLUMBING DETAILS

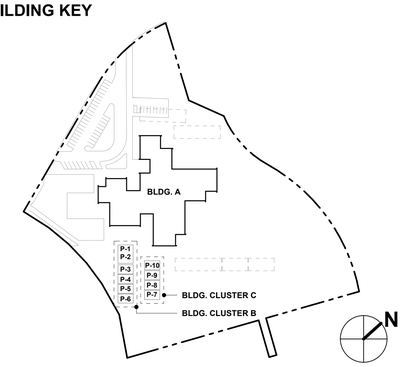
FIRE PROTECTION
FP001 FIRE PROTECTION LEGEND AND NOTES
FP101 FIRE PROTECTION SITE PLAN
FP201 FIRE PROTECTION DEMO PLAN - PART A
FP202 FIRE PROTECTION DEMO PLAN - PART B
FP301 FIRE PROTECTION FLOOR PLAN - PART A
FP302 FIRE PROTECTION FLOOR PLAN - PART B
FP311 FIRE PROTECTION REFLECTED CEILING PLAN - PART A
FP312 FIRE PROTECTION REFLECTED CEILING PLAN - PART B
FP501 FIRE PROTECTION DETAILS

ELECTRICAL
E000 GENERAL INFORMATION
E001 GENERAL INFORMATION
* E100 DEMO SITE PLAN
E101 SITE PLAN
E200 DEMO LIGHTING PLAN - PART A
E201 DEMO LIGHTING PLAN - PART B
E210 DEMO POWER AND LOW VOLTAGE PLAN - PART A
E211 DEMO POWER AND LOW VOLTAGE PLAN - PART B
E300 NEW LIGHTING PLAN - PART A
E301 NEW LIGHTING PLAN - PART B
E400 NEW POWER AND LOW VOLTAGE PLAN - PART A
E401 NEW POWER AND VOLTAGE PLAN - PART B
E600 DIAGRAMS LIGHTING
E610 DIAGRAMS LOW VOLTAGE
E700 SCHEDULES LIGHTING
E720 SCHEDULES PANELBOARD
E721 SCHEDULES PANELBOARD
E800 DETAILS
E801 DETAILS
E802 DETAILS
E900 TITLE 24 INTERIOR LIGHTING
E910 TITLE 24 INTERIOR LIGHTING
E920 TITLE 24 EXTERIOR LIGHTING
E930 POWER

FIRE ALARM
F000 GENERAL INFORMATION
F100 SITE PLAN - PART A
F200 DEMO FIRE ALARM - PART A
F201 DEMO FIRE ALARM - PART B
F202 DEMO FIRE ALARM - BUILDING CLUSTER B & C
F300 NEW FIRE ALARM - PART A
F301 NEW FIRE ALARM - PART B
F302 NEW FIRE ALARM - BUILDING CLUSTER B & C
F600 FIRE ALARM DIAGRAMS PART A
F601 FIRE ALARM DIAGRAMS PART B
F602 FA DIAGRAMS CLUSTER BUILDING B AND C
F700 SCHEDULES
F701 SHEET SCHEDULES
F800 DETAILS
F801 DETAILS

TOTAL: 113

BUILDING KEY



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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT — JOHN DIFFENDERFER — NO. C25840 — REGISTERED — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
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MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET
TITLE SHEET

DATE 09/05/2025
JOB # 2024022
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: A representative of Owner will inspect all work, including grades and compaction of earthwork. Contractor shall notify the Owner's Representative at least forty eight (48) hours prior to work.

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

8. Storm Drain Cleaning: Remove dirt and sediment from all drain boxes and storm drain cleanouts in project area and downstream to public storm drain mainline, use vac truck where possible. Hydrowash/jet out storm drain line until free flowing. Start at the downstream inlets and work towards project area. If clogged storm drain line cannot be unclogged by jetting, notify engineer, pothole blocked location and repair drain line as needed.

LEGEND

DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
CURB & GUTTER		
VERTICAL CURB		
ASPHALT EDGE / SAWCUT		
VALLEY GUTTER		
RAINWATER LEADER		
STORM LINE	SD	SD
SANITARY LINE	SS	SS
WATER LINE	W W	W W
FENCE		
ADA DROP OFF		
FIRE LANE		
ACCESSIBLE RAMP		
TRUNCATED DOMES		
STORM DRAIN INLET		
BOLLARD		
HYDRANT		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/ PULL BOX		
DIRECTION & RATE OF SLOPE	1.5%	
SWALE		
CONTOUR		
ASPHALT PAVING - PLAYGROUND		
ASPHALT PAVING - FIRE LANE		
CONCRETE PAVING - PEDESTRIAN		
EDGE OF PAVEMENT		
SLURRY SEAL		

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED FOR ALL PROJECTS

AB	AGGREGATE BASE	ML	MONUMENT LINE
AC	ASPHALT CONCRETE	(N)	NEW (PROPOSED)
ACC	ACCESSIBLE	O.C.	ON CENTER
ARCH	ARCHITECTURAL	OFG	OUTSIDE FINISH GRADE
BOS	BOTTOM OF STEP ELEVATION	P	PAVEMENT SURFACE ELEVATION
BR	BOTTOM OF RAMP	PERF	PERFORATED
BS	BOTTOM OF STEP ELEVATION	PP	POWER POLE
BSM	BIORETENTION SOIL MIX	PL	PROPERTY LINE
BTM	BOTTOM OF SLOPE	PSD	PERFORATED STORM DRAIN
BW	BACK OF WALK ELEVATION	(RD)	RECORD DOCUMENT
BOW	BOTTOM OF WALL ELEVATIONS	REINF	REINFORCED
CB	CATCH BASIN	RIM	RIM ELEVATION
CI	CAST IRON	RS	RAT SLAB
CL	CENTER LINE	RWL	RAIN WATER LEADER
C&G	CURB AND GUTTER	S=	SLOPE
DIA	DIAMETER	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DS	DOWNSPOUT	SD	STORM DRAIN
DW	DOMESTIC WATER	S.E.D.	SEE ELECTRICAL DRAWINGS
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	SOV	SHUT-OFF VALVE
EB	ELECTRICAL BOX	SS	SANITARY SEWER
EP	EDGE OF PAVEMENT	SSCO	SANITARY SEWER CLEANOUT
ETW	EDGE OF TRAVELED WAY	STD	STANDARD
EV	ELECTRICAL VAULT	SW	SIDEWALK
FNC	FENCE	STLT	STREET LIGHT
FH	FIRE HYDRANT	T	TELEPHONE
FF	FINISHED FLOOR ELEVATION	TOB	TOP OF BANK
FL	FLOW LINE	TOE	TOE OF BANK
FOC	FACE OF CURB	TOP	TOP OF SLOPE
G	GAS	TC	TOP OF CURB
GB	GRADE BREAK	TOS	TOP OF STEP ELEVATION
GND	GROUND ELEVATION	TOW	TOP OF WALL ELEVATION
HC	ACCESSIBLE	TP	TELEPHONE POLE
HORIZ	HORIZONTAL	TR	TOP OF RAMP
JP	JOINT POLE	TS	TOP OF STEP ELEVATION
ICV	IRRIGATION CONTROL VALVE	TSB	TRAFFIC SIGNAL BOX
INV	INVERT	TYP	TYPICAL
LF	LINEAR FEET	VERT	VERTICAL
LS	LANDSCAPE	VLT	VAULT
MAX	MAXIMUM	W	WATER
(ME)	MATCH EXISTING ELEVATION	WV	WATER VALVE
MH	MANHOLE		
MIN	MINIMUM		

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4/15/26

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DSA FILE NUMBER

APPL #

REVISIONS

No.	Description	Date
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MILESTONES

SD	01/23/2025
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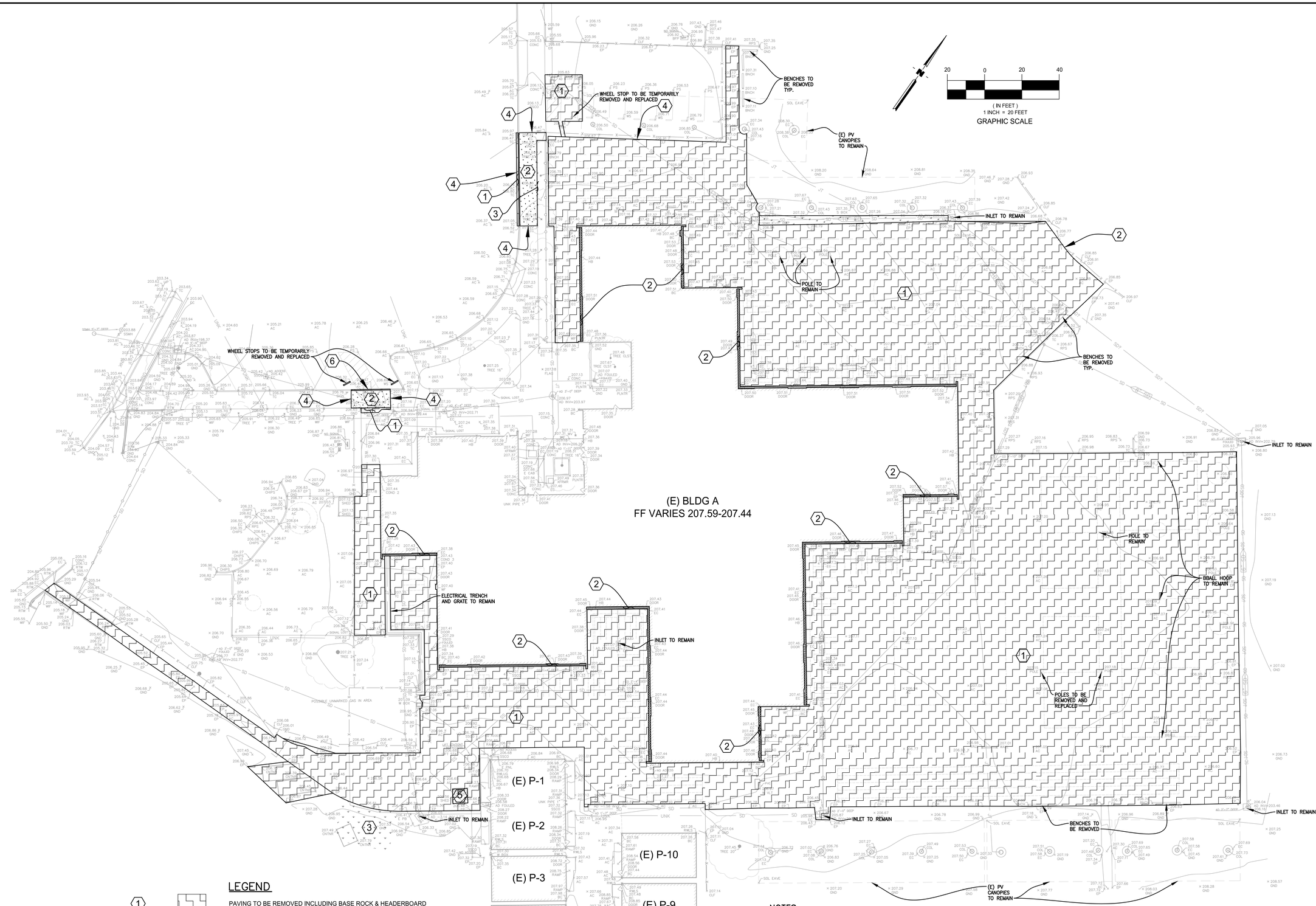
NOTES, LEGEND & INDEX

DATE 08/21/2025

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LEGEND

1. PAVING TO BE REMOVED INCLUDING BASE ROCK & HEADERBOARD
2. CONCRETE TO BE REMOVED INCLUDING BASE ROCK & HEADERBOARD
3. SHRUBS AND/OR LANDSCAPING TO BE REMOVED
   GRUB OUT ALL VEGETATION AND REMOVE BARK MULCH.
4. SAWCUT PAVEMENT
   SEE SHEETS C2.1 FOR EXACT LIMITS
5. SHED TO BE REMOVED OR RELOCATED
   AS DIRECTED BY SCHOOL DISTRICT
6. CURB AND/OR WALL TO BE REMOVED INCLUDING CONCRETE BASE ROCK

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, INCLUDE A MINIMUM OF 6,000 SF OF SOD REPAIR. COORDINATE WITH GENERAL CONTRACTOR FOR EXTENT OF REPAIR REQUIRED TO RESTORE TURF DUE TO CONSTRUCTION ACTIVITY

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PROJECT

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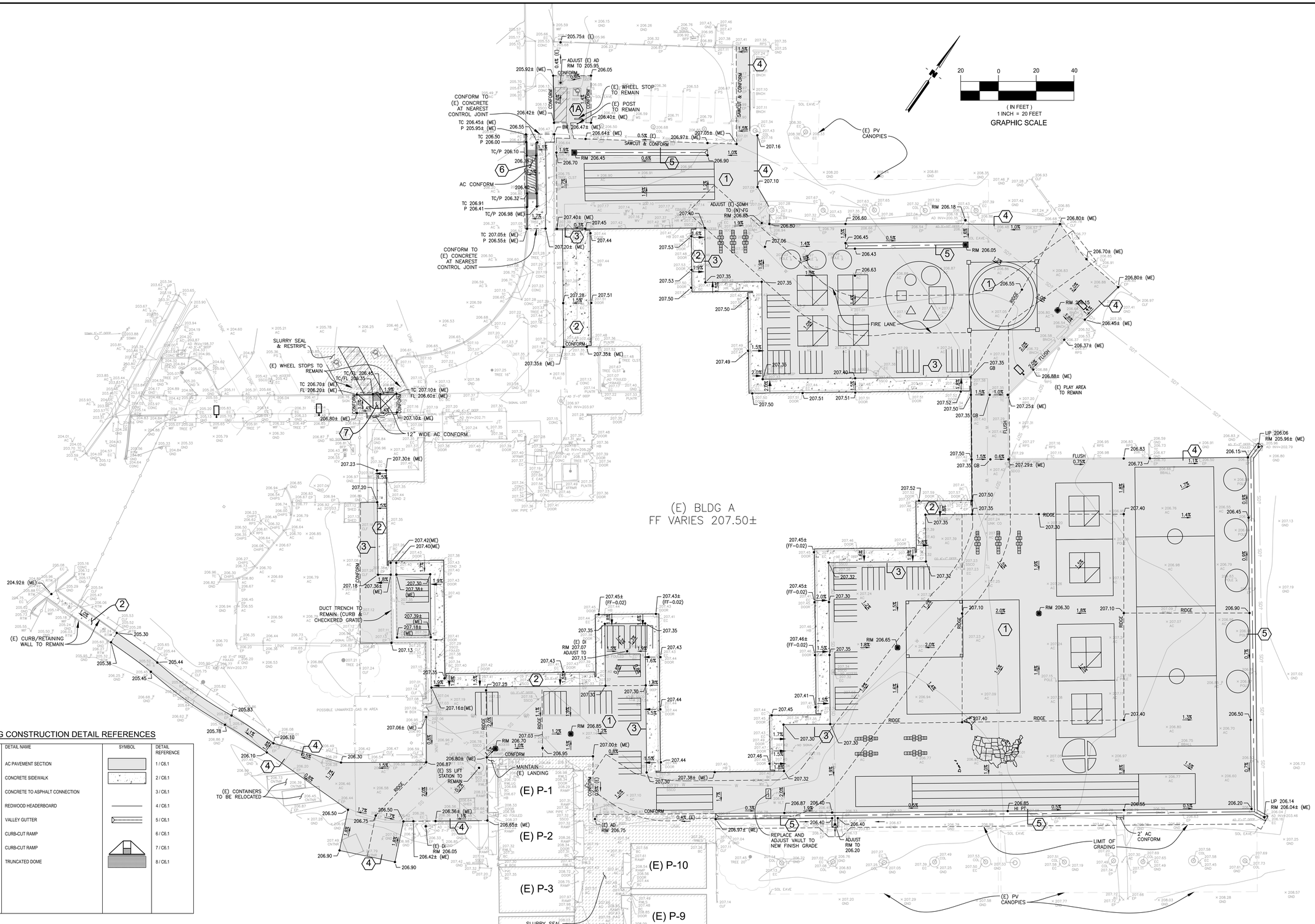
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DEMOLITION PLAN

DATE 08/21/2025

JOB # 2024022 CEI # 3208

SHEET # C1.1



GRADING CONSTRUCTION DETAIL REFERENCES

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
1	AC PAVEMENT SECTION		1 / C6.1
2	CONCRETE SIDEWALK		2 / C6.1
3	CONCRETE TO ASPHALT CONNECTION		3 / C6.1
4	REDWOOD HEADERBOARD		4 / C6.1
5	VALLEY GUTTER		5 / C6.1
6	CURB-CUT RAMP		6 / C6.1
7	CURB-CUT RAMP		7 / C6.1
8	TRUNCATED DOME		8 / C6.1

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PROJECT

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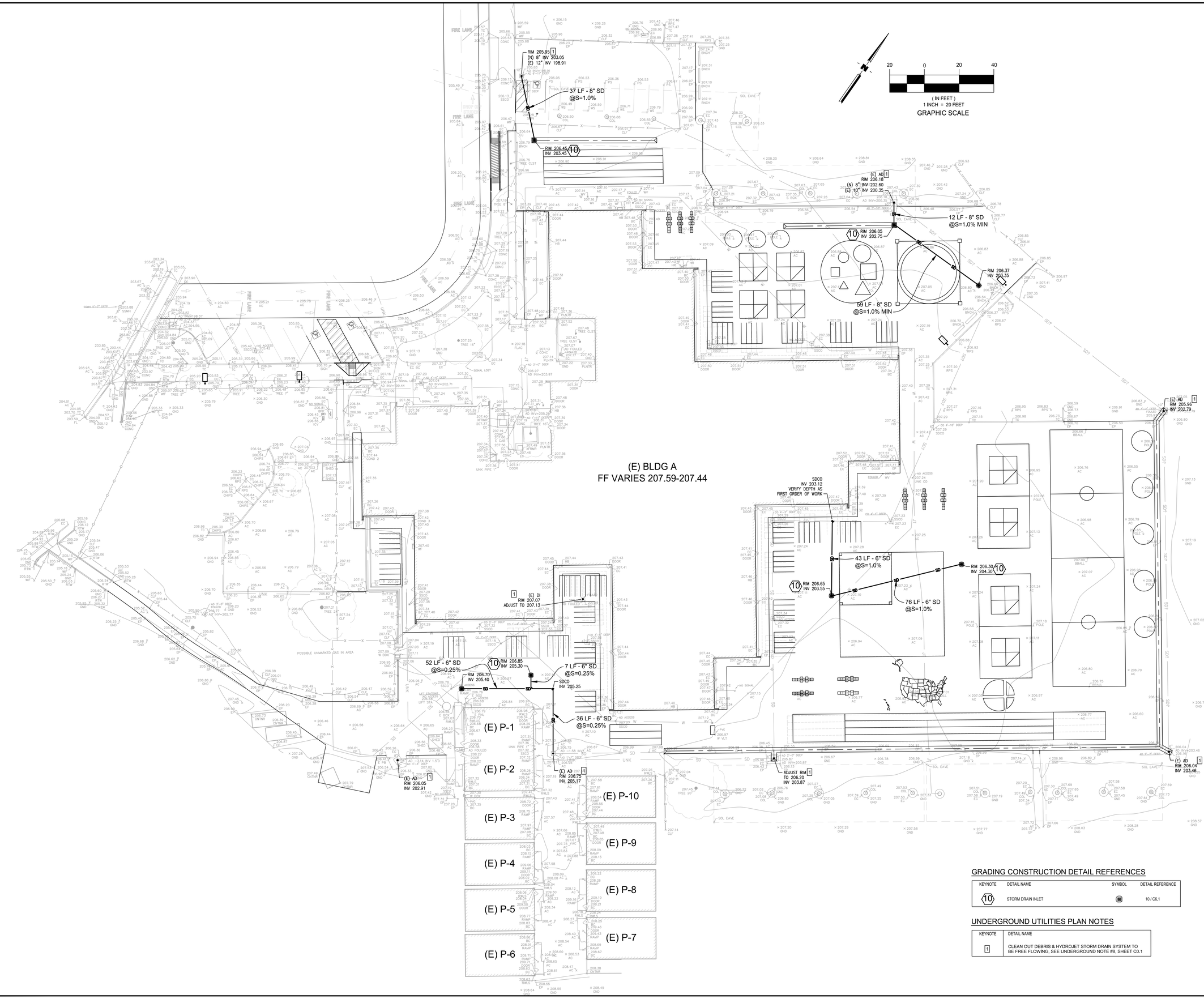
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GRADING CONSTRUCTION DETAIL REFERENCES

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
10	STORM DRAIN INLET	▣	10 / C6.1

UNDERGROUND UTILITIES PLAN NOTES

KEYNOTE	DETAIL NAME
1	CLEAN OUT DEBRIS & HYDROJET STORM DRAIN SYSTEM TO BE FREE FLOWING, SEE UNDERGROUND NOTE #8, SHEET C0.1

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PROJECT

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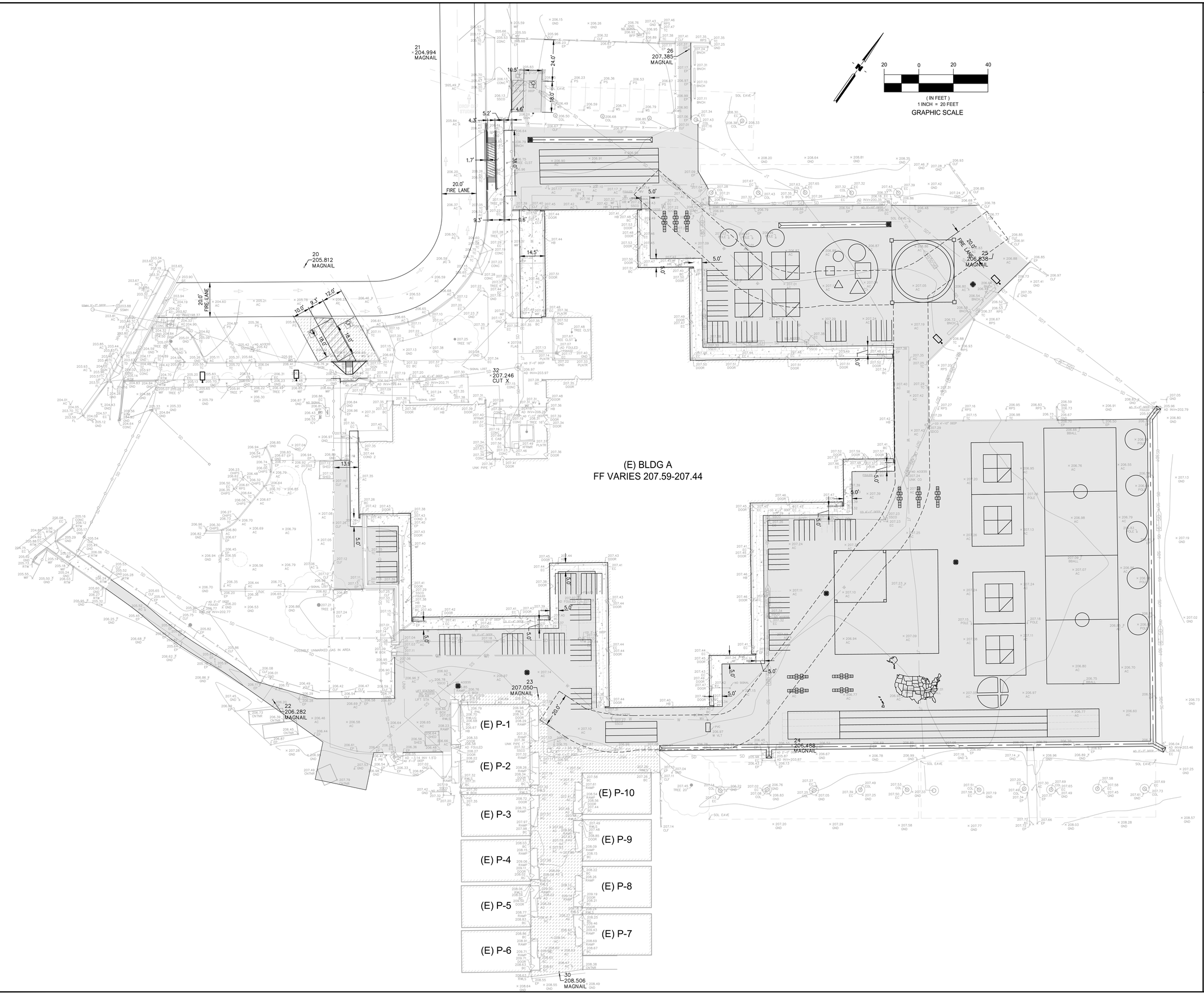
UNDERGROUND UTILITIES PLAN

DATE 08/21/2025

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PROJECT

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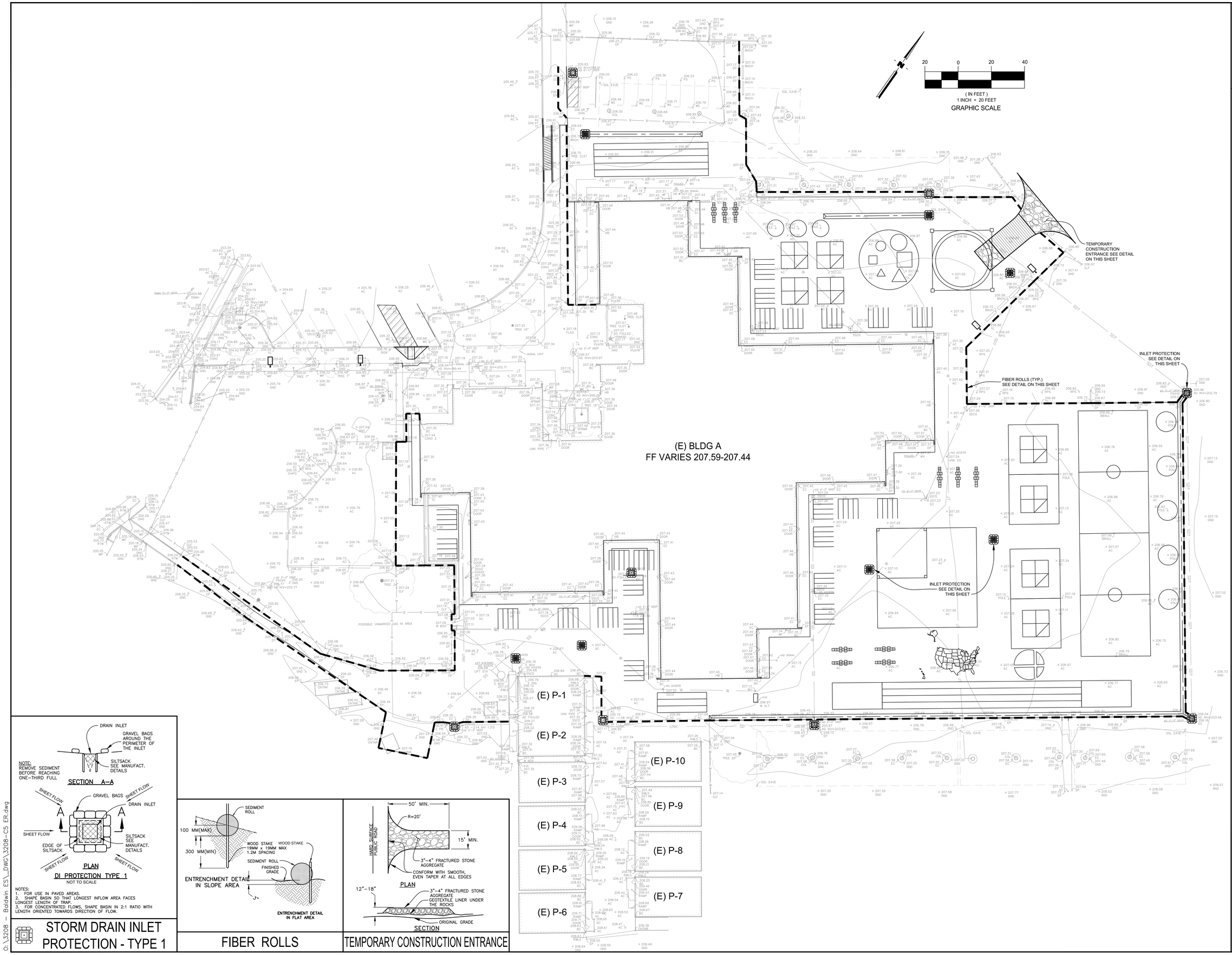
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HORIZONTAL CONTROL PLAN

DATE 08/21/2025

JOB # 2024022 **CEI #** 3208

SHEET # C4.1



DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:
1. FOR USE IN PAVED AREAS.
2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP.
3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

STORM DRAIN INLET PROTECTION - TYPE 1

FIBER ROLLS

TEMPORARY CONSTRUCTION ENTRANCE

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90% CD	.
DSA SUB	.

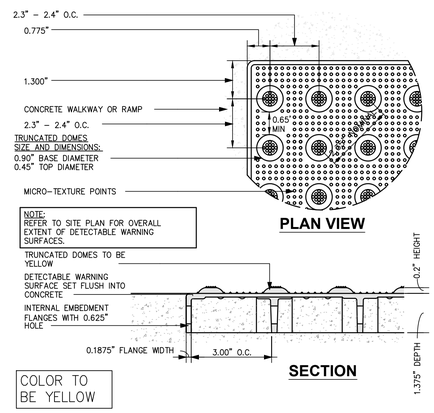
SHEET

EROSION CONTROL PLAN

DATE 08/21/2025

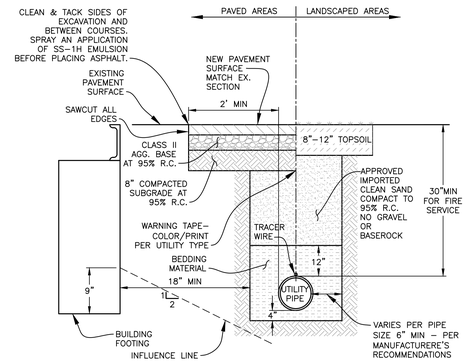
JOB # 2024022 **CEI #** 3208

SHEET # C5.1



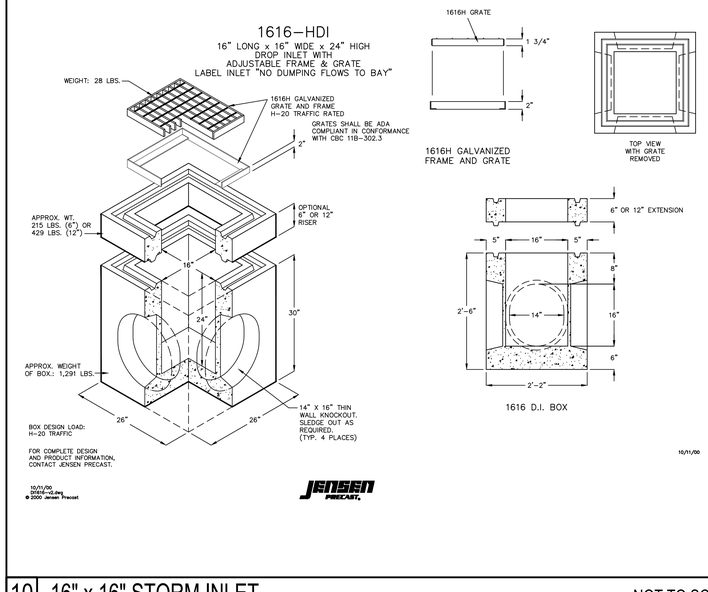
8 TRUNCATED DOMES

NOT TO SCALE



9 TYPICAL TRENCH SECTION

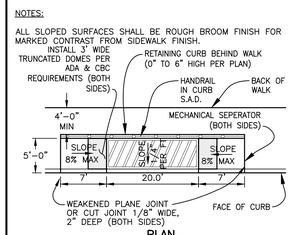
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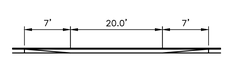
10 16" x 16" STORM INLET

NOT TO SCALE

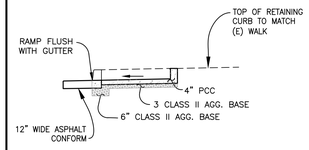
NOTES:
ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.



PLAN



ELEVATION

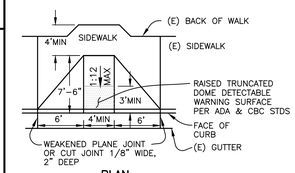


SECTION A–A

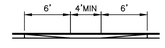
NOT TO SCALE

6 CURB-CUT RAMP

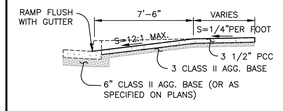
NOTE:
ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.



PLAN



ELEVATION



SECTION A–A

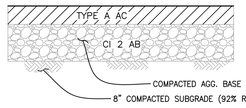
10' OR 12' ATTACHED SIDEWALK

NOT TO SCALE

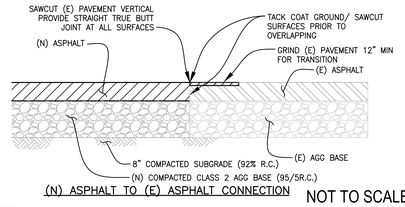
7 CURB-CUT RAMP

NOT TO SCALE

SECTION	TYPE A AC	CL 2 BASE
1. PLAYGROUND	3.0"	6.0"
1A. DRIVE AISLE/ PARKING	4.0"	8.0"



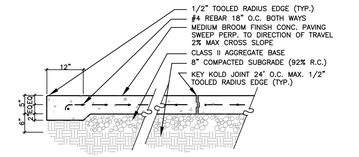
ASPHALT PAVEMENT SECTION



(N) ASPHALT TO (E) ASPHALT CONNECTION

NOT TO SCALE

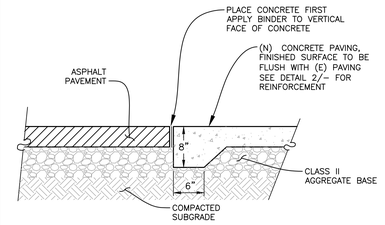
1 AC PAVEMENT SECTION & CONNECTION



NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8' O.C. REFER TO PLAN FOR LOCATION
2. SCORE JOINTS SHALL BE 1/8" WIDE MAXIMUM, 1/8" RADIUS BOTH SIDES, AND 1/2" DEEP

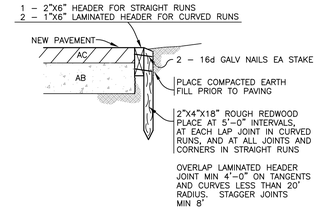
2 CONCRETE SIDEWALK

NOT TO SCALE



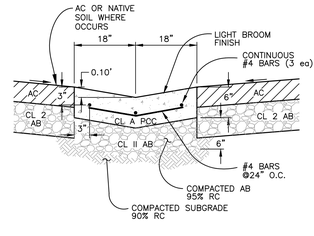
NOT TO SCALE

3 CONCRETE TO ASPHALT CONNECTION



4 REDWOOD HEADER BOARD

NOT TO SCALE



5 VALLEY GUTTER

NOT TO SCALE

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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

GROOM GEOTECHNICAL ENGINEERING
1331 N. RAMONA BLVD.
SUITE 8, RAMONA, CA 92065
TEL: 408-391-9900
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STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTUS
No. GE 68770
Exp. 09/30/25
CIVIL
STATE OF CALIFORNIA
4/15/26

STATE

DSA FILE NUMBER

APPL #

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05.16.2025
50% CD	.
90% CD	.
DSA SUB	.

SHEET

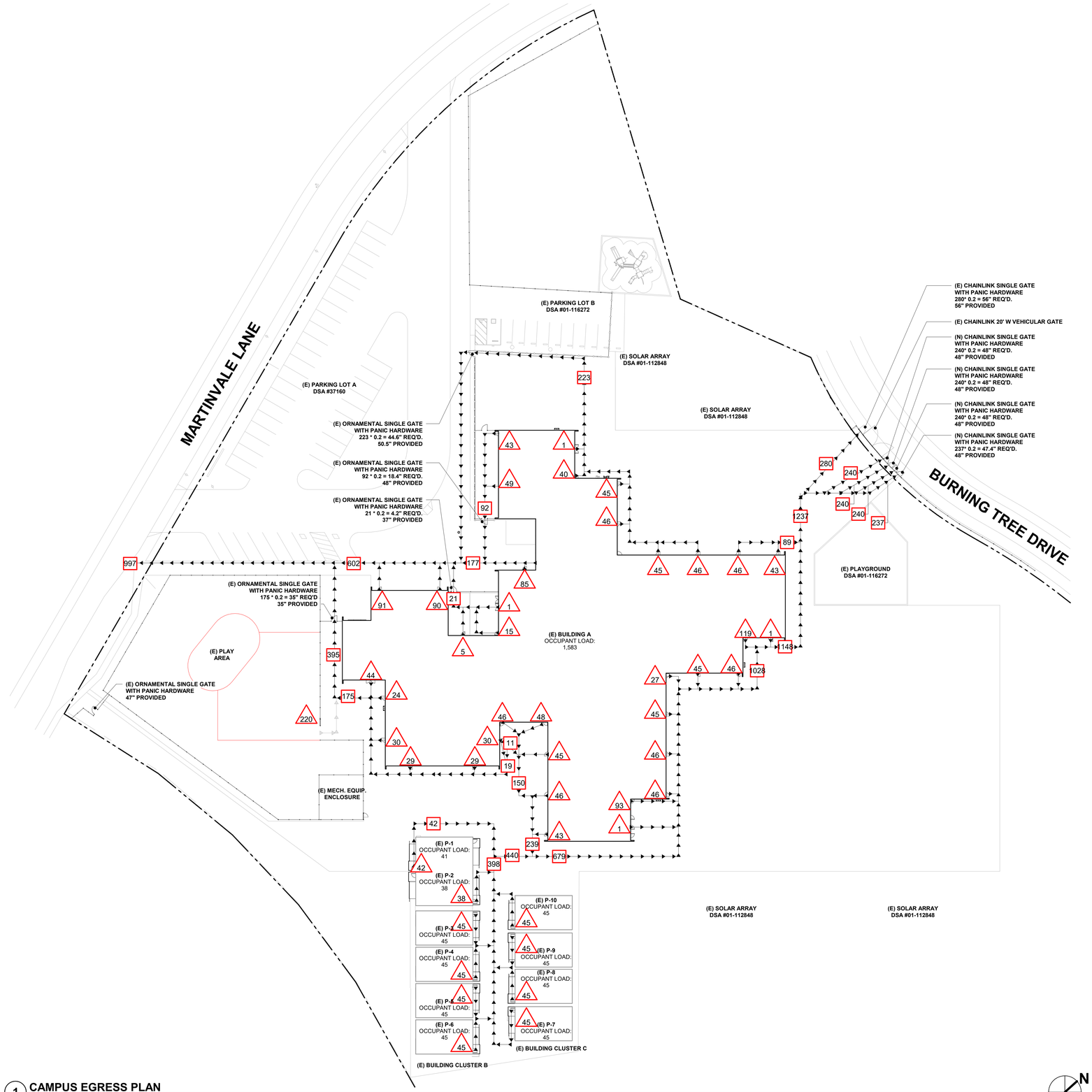
DETAILS

DATE 08/21/2025

JOB # 2024022 **CEI #** 3208

SHEET # C6.1

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1 **CAMPUS EGRESS PLAN**
SCALE: 1" = 30'-0"

GENERAL SHEET NOTES

EXIT ANALYSIS PLAN KEYNOTES

GRAPHIC KEY

- MODERNIZATION OF EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- EXIT ANALYSIS PATH OF TRAVEL
- EXIT ANALYSIS PATH OF TRAVEL, EXISTING
- XX — COMBINED OCCUPANT LOAD
- XX — TOTAL FLOOR OCCUPANT LOAD

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
JOHN C. PITTENGER LICENSED ARCHITECT NO. C44940 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
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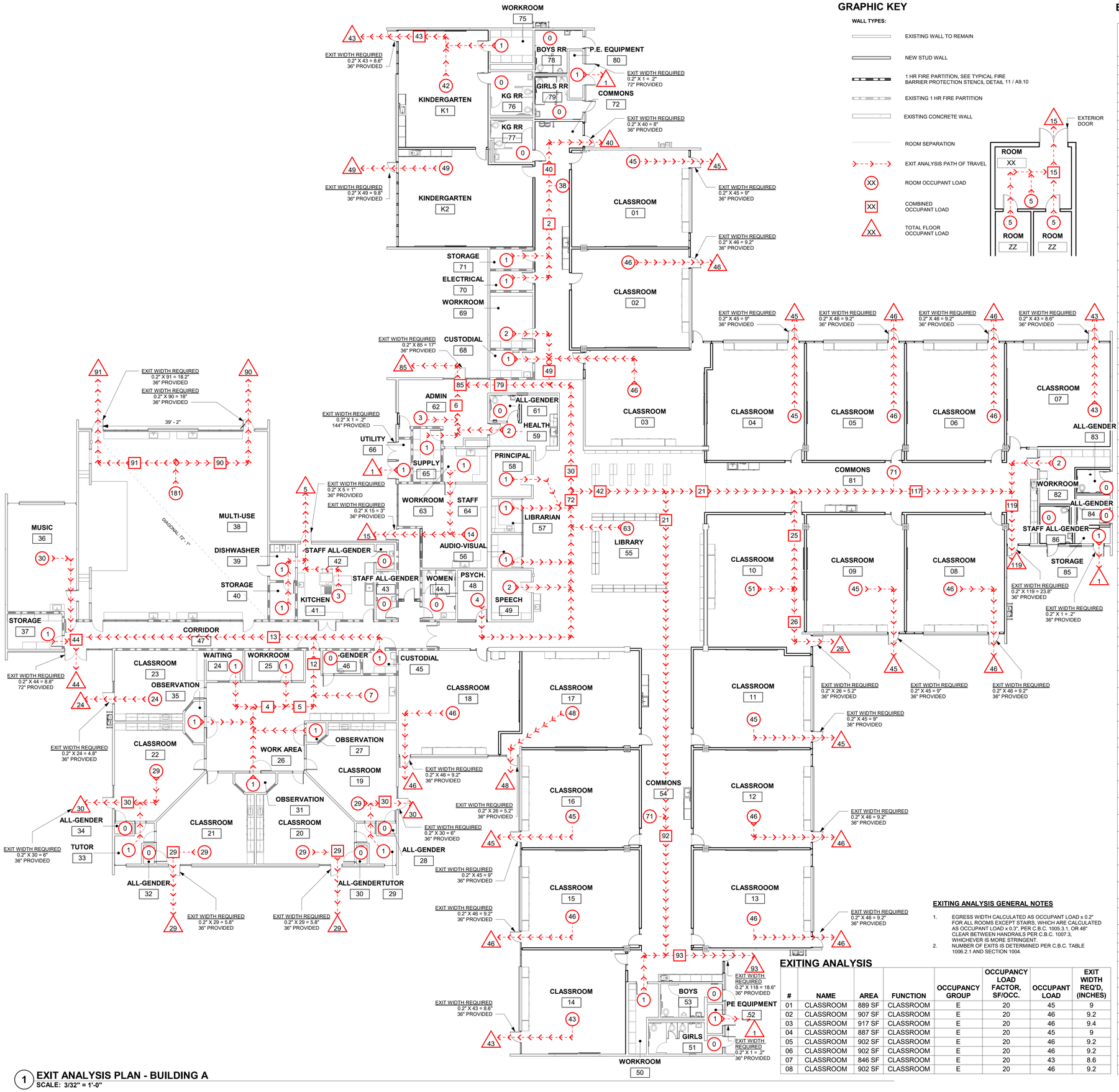
MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET
CAMPUS EGRESS PLAN

DATE 09/05/2025
JOB # 2024022
SHEET # A0.04

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GRAPHIC KEY

WALL TYPES:

- EXISTING WALL TO REMAIN
- NEW STUD WALL
- 1 HR FIRE PARTITION, SEE TYPICAL FIRE BARRIER PROTECTION STENCIL DETAIL 11 / A9.10
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL
- ROOM SEPARATION
- EXIT ANALYSIS PATH OF TRAVEL
- XX — ROOM OCCUPANT LOAD
- XX — COMBINED OCCUPANT LOAD
- XX — TOTAL FLOOR OCCUPANT LOAD

EXITING ANALYSIS CONTINUED

#	NAME	AREA	FUNCTION	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD	EXIT WIDTH REQ'D, (INCHES)
09	CLASSROOM	900 SF	CLASSROOM	E	20	45	9.2
10	CLASSROOM	1023 SF	CLASSROOM	E	20	52	10.4
11	CLASSROOM	891 SF	CLASSROOM	E	20	45	9
12	CLASSROOM	901 SF	CLASSROOM	E	20	46	9.2
13	CLASSROOOM	903 SF	CLASSROOM	E	20	46	9.2
14	CLASSROOM	852 SF	CLASSROOM	E	20	43	8.6
15	CLASSROOM	900 SF	CLASSROOM	E	20	46	9.2
16	CLASSROOM	899 SF	CLASSROOM	E	20	45	9.2
17	CLASSROOM	917 SF	CLASSROOM	E	20	46	9.2
18	CLASSROOM	949 SF	CLASSROOM	E	20	48	9.6
19	CLASSROOM	566 SF	CLASSROOM	E	20	29	5.8
20	CLASSROOM	577 SF	CLASSROOM	E	20	29	5.8
21	CLASSROOM	569 SF	CLASSROOM	E	20	29	5.8
22	CLASSROOM	579 SF	CLASSROOM	E	20	29	5.8
23	CLASSROOM	464 SF	CLASSROOM	E	20	24	4.8
24	WAITING	86 SF	BUSINESS AREA	E	150	1	.2
25	WORKROOM	139 SF	BUSINESS AREA	E	150	1	.2
26	WORK AREA	1037 SF	BUSINESS AREA	E	150	7	1.4
27	OBSERVATION	27 SF	BUSINESS AREA	E	150	1	.2
28	ALL-GENDER	16 SF	-	-			
29	TUTOR	88 SF	BUSINESS AREA	B	150	1	.2
30	ALL-GENDER	16 SF	-	-			
31	OBSERVATION	54 SF	BUSINESS AREA	E	150	1	.2
32	ALL-GENDER	16 SF	-	-			
33	TUTOR	87 SF	BUSINESS AREA	E	150	1	.2
34	ALL-GENDER	15 SF	-	-			
35	OBSERVATION	55 SF	BUSINESS AREA	E	150	1	.2
36	MUSIC	588 SF	CLASSROOM	E	20	30	6
37	STORAGE	149 SF	ACCESSORY STORAGE	E	300	1	.2
38	MULTI-USE	2714 SF	CONCENTRATED, NON-FIXED ASSEMBLY	A-2	15	181	36.4
39	DISHWASHER	73 SF	KITCHEN COMMERCIAL	A-2	200	1	.2
40	STORAGE	74 SF	KITCHEN COMMERCIAL	A-2	300	1	.2
41	KITCHEN	455 SF	KITCHEN COMMERCIAL	A-2	200	3	.6
42	STAFF ALL-GENDER	35 SF	-	-			
43	STAFF ALL-GENDER	77 SF	-	-			
44	WOMEN	124 SF	-	-			
45	CUSTODIAL	60 SF	ACCESSORY STORAGE	S-2	300	1	.2
46	ALL-GENDER	68 SF	-	-			
47	CORRIDOR	813 SF	-	-			
48	PSYCH.	116 SF	BUSINESS AREA	B	30	4	0.8
49	SPEECH	156 SF	BUSINESS AREA	E	150	2	0.4
50	WORKROOM	130 SF	BUSINESS AREA	E	150	1	.2
51	GIRLS	163 SF	-	-			
52	PE EQUIPMENT	35 SF	ACCESSORY STORAGE	ACCESSORY STORAGE	300	1	.2
53	BOYS	141 SF	-	-			
54	COMMONS	1411 SF	CLASSROOM	E	20	71	14.2
55	LIBRARY	3102 SF	LIBRARY READING ROOM	A-3	50	63	12.6
56	AUDIO-VISUAL	82 SF	BUSINESS AREA	E	150	1	.2
57	LIBRARIAN	82 SF	BUSINESS AREA	E	150	1	.2
58	PRINCIPAL	145 SF	BUSINESS AREA	E	150	1	.2
59	HEALTH	202 SF	BUSINESS AREA	E	150	2	.4
61	ALL-GENDER	61 SF	-	-			
62	ADMIN	387 SF	BUSINESS AREA	E	150	3	.6
63	WORKROOM	116 SF	BUSINESS AREA	E	150	1	.2
64	STAFF	650 SF	BUSINESS AREA	B	50	14	2.8
65	SUPPLY	117 SF	ACCESSORY STORAGE	ACCESSORY STORAGE	300	1	.2
66	UTILITY	63 SF	EQUIPMENT ROOM	S-1	300	1	.2
68	CUSTODIAL	91 SF	ACCESSORY STORAGE	S-1	300	1	.2
69	WORKROOM	185 SF	BUSINESS AREA	E	150	2	.4
70	ELECTRICAL	65 SF	EQUIPMENT ROOM	S	300	1	.2
71	STORAGE	66 SF	ACCESSORY STORAGE	S-1	300	1	.2
72	COMMONS	754 SF	CLASSROOM	E	20	38	7.6
75	WORKROOM	109 SF	BUSINESS AREA	E	150	1	.2
76	KG RR	145 SF	-	-			
77	KG RR	133 SF	-	-			
78	BOYS RR	132 SF	-	-			
79	GIRLS RR	132 SF	-	-			
80	P.E. EQUIPMENT	51 SF	ACCESSORY STORAGE	ACCESSORY STORAGE	300	1	.2
81	COMMONS	1402 SF	CLSASROOM	E	20	71	14.2
82	WORKROOM	199 SF	BUSINESS AREA	E	150	2	.4
83	ALL-GENDER	61 SF	-	-			
84	ALL-GENDER	62 SF	-	-			
85	STORAGE	43 SF	ACCESSORY STORAGE	ACCESSORY STORAGE	300	1	
86	STAFF ALL-GENDER	85 SF	-	-			

EXITING ANALYSIS GENERAL NOTES

1. 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.
2. NUMBER OF EXITS IS DETERMINED PER C.B.C. TABLE 1006.2.1 AND SECTION 1004.

EXITING ANALYSIS

#	NAME	AREA	FUNCTION	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD	EXIT WIDTH REQ'D, (INCHES)
01	CLASSROOM	889 SF	CLASSROOM	E	20	45	9
02	CLASSROOM	907 SF	CLASSROOM	E	20	46	9.2
03	CLASSROOM	917 SF	CLASSROOM	E	20	46	9.4
04	CLASSROOM	887 SF	CLASSROOM	E	20	45	9
05	CLASSROOM	902 SF	CLASSROOM	E	20	46	9.2
06	CLASSROOM	902 SF	CLASSROOM	E	20	46	9.2
07	CLASSROOM	846 SF	CLASSROOM	E	20	43	8.6
08	CLASSROOM	902 SF	CLASSROOM	E	20	46	9.2

1 **EXIT ANALYSIS PLAN - BUILDING A**
SCALE: 3/32" = 1'-0"

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fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN PITTENGER — NO. C44940 — EXP. 07.31.27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date

MILESTONES

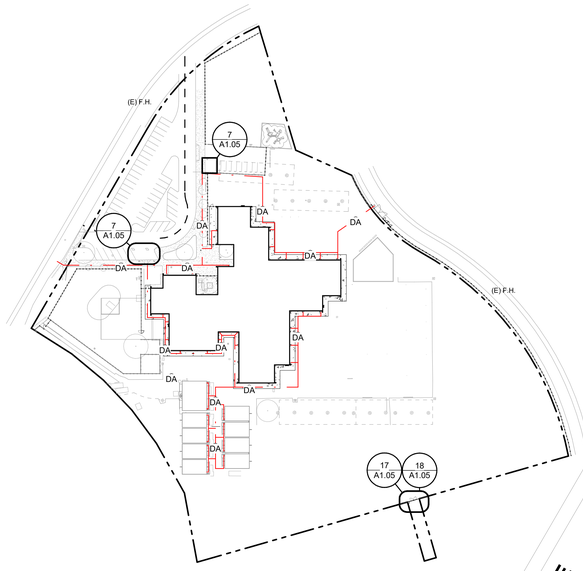
SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

EXIT ANALYSIS - BUILDING A

DATE 09/05/2025
JOB # 2024022
SHEET # A0.05

4/27/2026 11:37:52 AM



3 FULL PROPERTY LINE EXTENTS
SCALE: 1" = 100'-0"

CAMPUS CODE ANALYSIS

THE OCCUPANCY OF EXISTING STRUCTURES AS DESCRIBED IN THE PROJECT INFORMATION CONTINUE WITHOUT CHANGE PER THE APPROVED DSA APPLICATION NUMBER (CBC 102.6).

NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK. BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

(E) BUILDING A:
DSA #: 37160, 01-116466, 01-103865,01-103897, 01-107868, 01-122542

• USE	EDUCATION, ASSEMBLY
• OCCUPANCY GROUP	A-2, B, E
• CONSTRUCTION TYPE	V-B
• SPRINKLERED	
• ACTUAL AREA	41,478 SF
• ROOF FIRE HAZARD CLASS.:	C
• # OF STORIES	1

(E) BUILDING CLUSTER B:
DSA #: 68249, 01-105296, 01-116466, 01-122542

• USE	EDUCATION
• OCCUPANCY GROUP	E
• CONSTRUCTION TYPE	V-B
• NOT SPRINKLERED	
• ACTUAL AREA	5,743 SF
• ROOF FIRE HAZARD CLASS.:	C
• # OF STORIES	1

(E) BUILDING CLUSTER C
DSA #: 01-105296, 01-122542

• USE	EDUCATION
• OCCUPANCY GROUP	E
• CONSTRUCTION TYPE	V-B
• NOT SPRINKLERED	
• ACTUAL AREA	3,828 SF
• ROOF FIRE HAZARD CLASS.:	C
• # OF STORIES	1

ASSISTIVE LISTENING SYSTEM

ASSEMBLY AREAS, CBC 11B-219.2						
ROOM NUMBER	NAME	AREA	OCCUPANCY GROUP	FUNCTION	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD
01	CLASSROOM	889 SF	E	CLASSROOM	20	45
02	CLASSROOM	907 SF	E	CLASSROOM	20	46
03	CLASSROOM	917 SF	E	CLASSROOM	20	46
04	CLASSROOM	887 SF	E	CLASSROOM	20	45
05	CLASSROOM	902 SF	E	CLASSROOM	20	46
06	CLASSROOM	902 SF	E	CLASSROOM	20	46
07	CLASSROOM	846 SF	E	CLASSROOM	20	43
08	CLASSROOM	902 SF	E	CLASSROOM	20	46
09	CLASSROOM	900 SF	E	CLASSROOM	20	45
10	CLASSROOM	1023 SF	E	CLASSROOM	20	52
11	CLASSROOM	891 SF	E	CLASSROOM	20	45
12	CLASSROOM	901 SF	E	CLASSROOM	20	46
13	CLASSROOM	903 SF	E	CLASSROOM	20	46
14	CLASSROOM	852 SF	E	CLASSROOM	20	43
15	CLASSROOM	900 SF	E	CLASSROOM	20	46
16	CLASSROOM	899 SF	E	CLASSROOM	20	45
17	CLASSROOM	917 SF	E	CLASSROOM	20	46
18	CLASSROOM	949 SF	E	CLASSROOM	20	48
19	CLASSROOM	566 SF	E	CLASSROOM	20	29
20	CLASSROOM	577 SF	E	CLASSROOM	20	29
21	CLASSROOM	569 SF	E	CLASSROOM	20	29
22	CLASSROOM	579 SF	E	CLASSROOM	20	29
23	CLASSROOM	464 SF	E	CLASSROOM	20	24
54	COMMONS	1411 SF	E	CLASSROOM	20	71
55	LIBRARY	3102 SF	A-3	LIBRARY READING ROOM	50	63
72	COMMONS	754 SF	E	CLASSROOM	20	38
81	COMMONS	1402 SF	E	CLASSROOM	20	71
K1	KINDERGARTEN	826 SF	E	CLASSROOM	20	42
K2	KINDERGARTEN	978 SF	E	CLASSROOM	20	49

TOTAL LOAD: 1,299

TOTAL NUMBER OF RECIEVERS TO BE PROVIDED, 4% OF TOTAL: 52

ASSISTIVE LISTENING NOTES:
1. ASSISTIVE LISTENING SYSTEM TO BE OWNER FURNISHED.
2. ASSISTIVE LISTENING SIGNAGE TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
3. MINIMUM RECEIVERS TO BE PROVIDED SHALL BE NO LESS THAN TWO, PER CBC 2022 11B-219.3 EXCEPTION: WHERE ASSEMBLY AREAS ARE UNDER ONE MANAGEMENT, THE TOTAL NUMBER OF RECEIVERS SHALL BE PERMITTED TO BE CALCULATED ACCORDING TO THE TOTAL NUMBER OF SEATS IN THE ASSEMBLY AREAS PROVIDED THAT ALL RECEIVERS ARE USABLE WITH ALL SYSTEMS.
4. PROVIDE ADEQUATE ELECTRICAL OUTLETS AND OTHER SUPPLEMENTAL WIRING NECESSARY TO SUPPORT A PORTABLE ASSISTIVE LISTENING SYSTEM PER CBC 2022 11B-706.
5. 25% (NO FEWER THAN TWO) RECEIVERS SHALL BE HEARING-AID COMPATIBLE. RECEIVERS REQUIRED TO BE HEARING-AID COMPATIBLE SHALL INTERFACE WITH TELECOILS IN HEARING AIDS THROUGH THE PROVISION OF NECKLOOPS.
6. PROVIDE SIGNAGE STATING "ASSISTIVE-LISTENING SYSTEM AVAILABLE" AND INCLUDING INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS IN COMPLIANCE WITH CBC 2022 11B-703.7.2.4. MOUNT (1) AT EACH ASSEMBLY AREA NEAR THE ENTRANCE, ADJACENT TO SIGN TYPES 1 OR 2.

GENERAL SHEET NOTES

A ARCHITECT AND 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 CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

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

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

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

G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLDS OR LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE.

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

NEW SITE PLAN KEYNOTES

02.104 (E) LANDSCAPING
02.108 (E) FLAG POLE
02.110 (E) D.A. HI-LO DRINKING FOUNTAIN
02.112 (E) CHAIN LINK FENCE
02.116 V.I.F. (E) ORNAMENTAL 35" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05 SIM.
02.117 V.I.F. (E) ORNAMENTAL 37" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05 SIM.
02.118 V.I.F. (E) ORNAMENTAL 47" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05 SIM.
02.119 V.I.F. (E) ORNAMENTAL 48" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05 SIM.
02.120 V.I.F. (E) ORNAMENTAL 50.5" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05 SIM.
02.131 (E) CONCRETE PAVING
02.132 (E) ASPHALT PAVING
02.149 (E) DUMPSTER AND RECYCLING BINS.
02.150 PATCH A.C., CONCRETE, AND ASSOCIATED CURBS AND EDGES AS REQUIRED FOR ELECTRICAL TRENCHING. S.E.D. AND S.C.D.
02.151 (E) PLANTING. VERIFY IN FIELD (E) UTILITIES AND FUNCTIONALITY OF IRRIGATION PRIOR TO CONSTRUCTION. SALVAGE OR REPLACE (E) PLANTING AFFECTED BY WORK.
02.276 REMOVE (E) BENCH AND ASSOCIATED FOOTINGS. GRADE SOIL TO LEVEL AFTER DEMOLITION.
02.277 SALVAGE (E) STORAGE CONTAINER AS REQUIRED FOR PAVING CONSTRUCTION ACCESS.
02.401 SALVAGE (E) SIGN AND TURN OVER TO OWNER. PROVIDE ENTRY WARNING SIGN AT (E) POST, SEE DETAIL 5 / A1.05
02.402 REMOVE (E) PASSENGER LOADING ZONE SIGN, SALVAGE AND TURN TO DISTRICT
08.117 REMOVE (E) GATE LEAF AND HARDWARE. (E) POLES TO REMAIN. PROVIDE NEW GATE, 48"H X 56"W, V.I.F. SEE SIM DETAIL 8 / A1.05
09.002 PAINT EXTERIOR, SEE EXTERIOR ELEVATIONS SHEET A6.02
09.003 REINSTALL SALVAGED STORAGE CONTAINER. COORDINATE FINAL LOCATION WITH OWNER. PAINT EXTERIOR.
09.004 SALVAGE AND REINSTALL (E) SHED AS REQUIRED FOR PAVING CONSTRUCTION ACCESS. COORDINATE FINAL LOCATION WITH OWNER. PAINT EXTERIOR.
10.131 PAINTED MURAL SIGNAGE, 9"H TO READ "BLDG. A", CONFIRM LETTERING WITH OWNER PRIOR TO INSTALLATION.
22.414 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 4 / A3.12
32.104 ASPHALT PAVING, S.C.D., COORDINATE FINAL LAYOUT WITH OWNER PRIOR TO INSTALLATION.
32.108 CONCRETE PAVING, S.C.D.
32.109 (E) ASPHALT PAVING TO REMAIN.
32.205 PASSENGER LOADING ZONE, S.C.D.

	REQUIRED	PROVIDED
PARKING LOT 1		
TOTAL PARKING SPACES	N/A	48
- VAN D.A. PARKING SPACES	1	1
- STANDARD D.A. PARKING SPACES	1	1
TOTAL EV CAPABLE SPACES	N/A	0
- VAN ACCESSIBLE CHARGING SPACES	-	-
- STANDARD ACCESSIBLE CHARGING SPACES	-	-
- AMBULATORY CHARGING SPACES	-	-

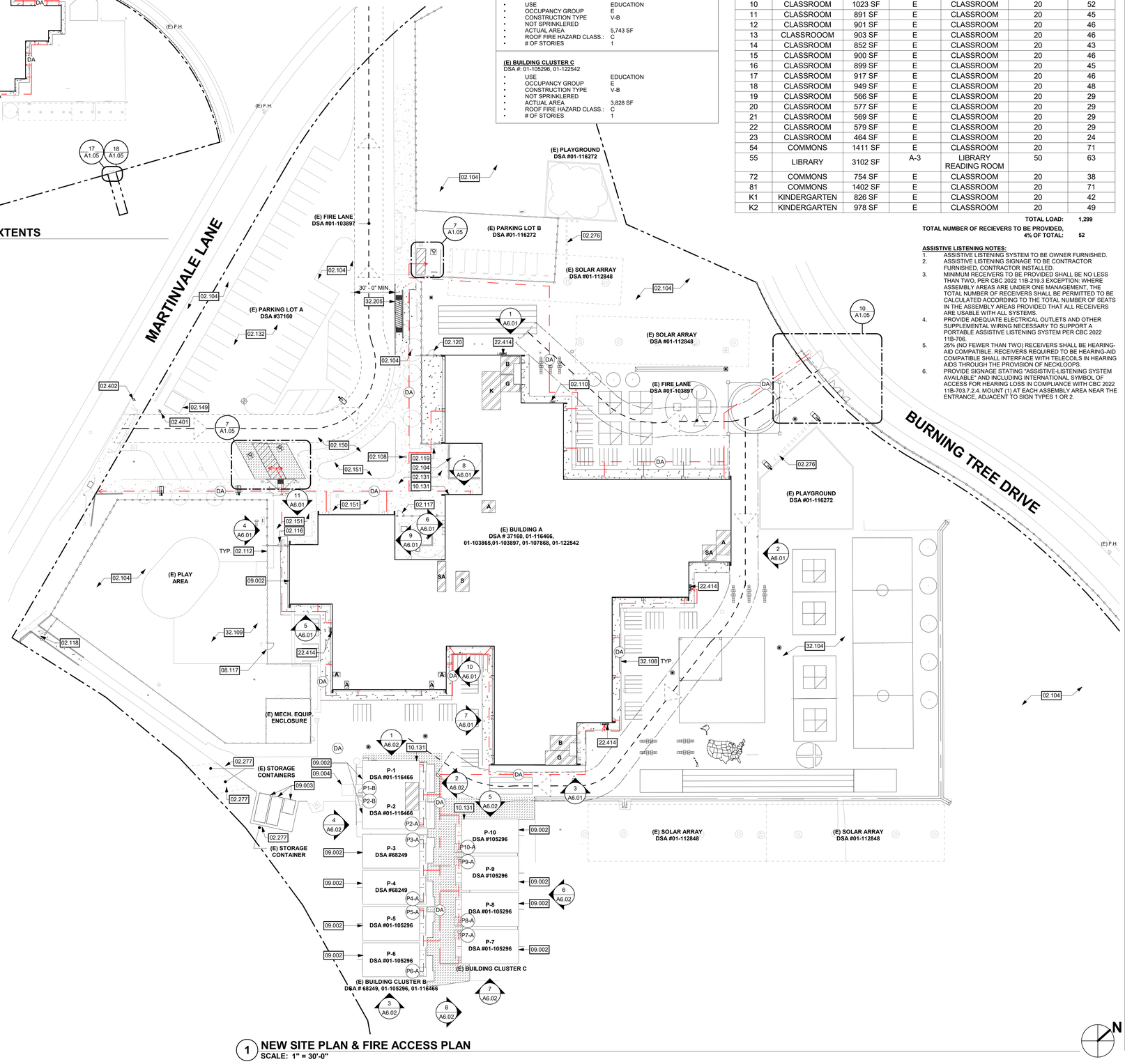
PARKING LOT 2		
TOTAL PARKING SPACES	N/A	10
- VAN D.A. PARKING SPACES	1	1
- STANDARD D.A. PARKING SPACES	0	0
TOTAL EV CAPABLE SPACES	N/A	0
- VAN ACCESSIBLE CHARGING SPACES	-	-
- STANDARD ACCESSIBLE CHARGING SPACES	-	-
- AMBULATORY CHARGING SPACES	-	-

REQUIRED E.V. PARKING:		
PER CALGREEN 2022 5.106.5.3 & CBC 2022 11B-228.3.2.1	N/A	0

NOTE: NO CHANGES TO (E) PARKING SPACE COUNT NOR INCREASE OF PANEL SIZE SERVING PARKING LOT LIGHTING

GRAPHIC KEY

- MODERNIZATION OF EXISTING CONSTRUCTION
- SA — EXISTING ALL-GENDER STAFF TOILET ROOMS.
- S — EXISTING STAFF TOILET ROOMS.
- A — EXISTING ALL-GENDER TOILET ROOMS.
- K — EXISTING KINDERGARTEN TOILET ROOMS.
- B — EXISTING BOYS TOILET ROOMS.
- G — EXISTING GIRLS TOILET ROOMS.
- EXISTING CONSTRUCTION TO REMAIN
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- (E) ORNAMENTAL FENCE
- (E) CHAIN LINK FENCE
- (E) FIRE DEPARTMENT ACCESS, DSA #01-103897
  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



1 NEW SITE PLAN & FIRE ACCESS PLAN
SCALE: 1" = 30'-0"

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT — JOHN C. PITTENGER — NO. C49340 — REG. 07/31/2026 — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
△		

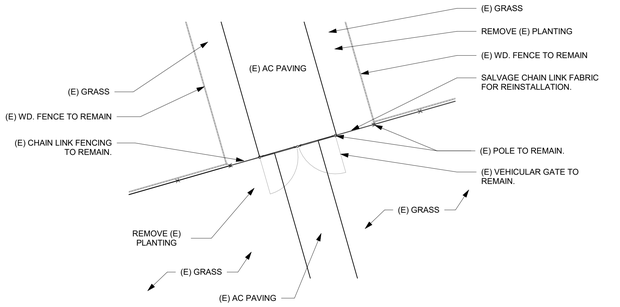
MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET
NEW SITE PLAN & FIRE ACCESS PLAN & CAMPUS BLDG. CODE ANALYSIS

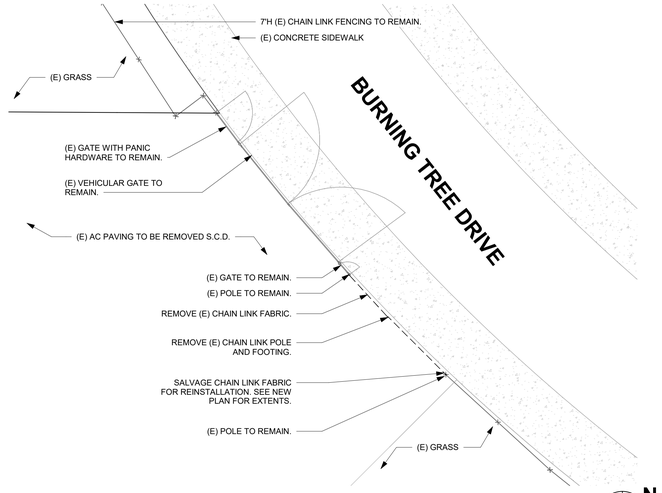
DATE 09/05/2025
JOB # 2024022
SHEET # A1.02

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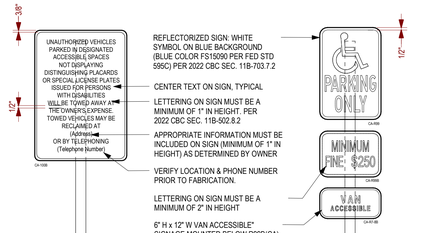
17 DEMO ENLARGED SOUTH GATE PLAN
SCALE: 1/8" = 1'-0"

N

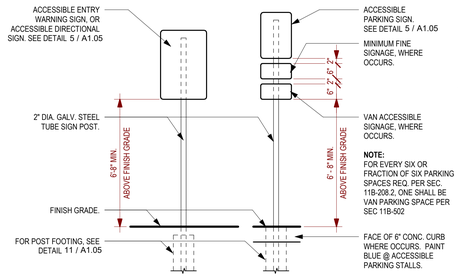


9 DEMO ENLARGED NORTH GATE PLAN
SCALE: 1/8" = 1'-0"

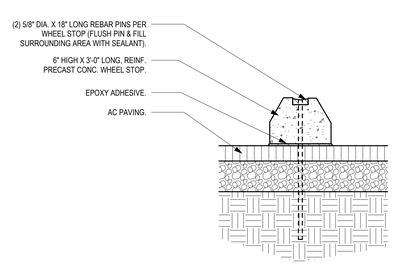
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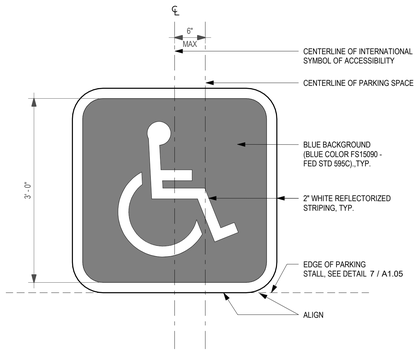
5 ACCESSIBLE PARKING SIGNS
SCALE: 1" = 1'-0"



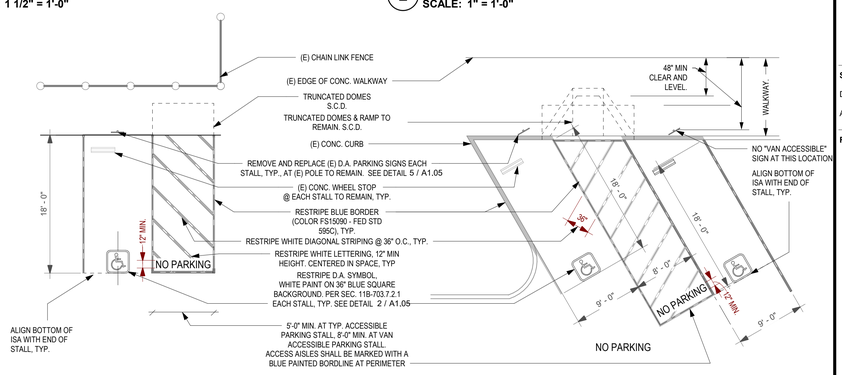
1 SITE SIGNAGE MOUNT
SCALE: 1/2" = 1'-0"



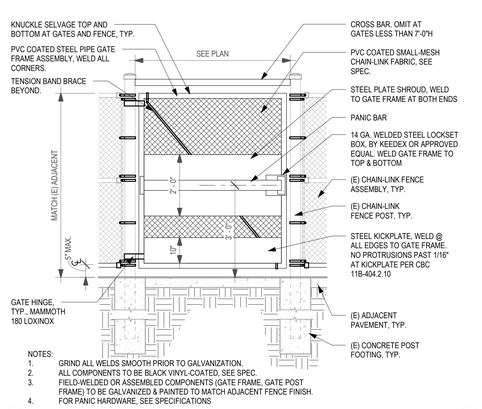
6 TYPICAL CONCRETE WHEEL STOP
SCALE: 1 1/2" = 1'-0"



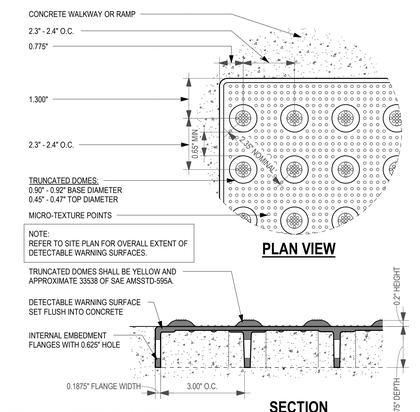
2 INTERNATIONAL SYMBOL OF ACCESSIBILITY
SCALE: 1" = 1'-0"



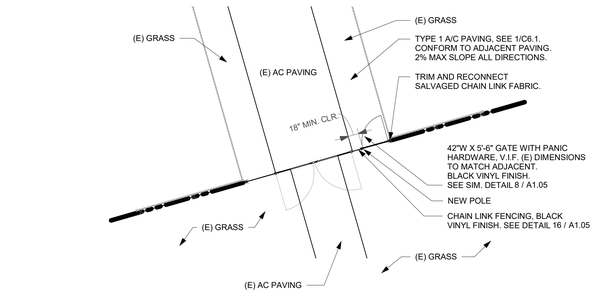
7 D.A. PARKING STALL
SCALE: 1/8" = 1'-0"



8 CHAIN LINK FENCE WITH PANIC
SCALE: 1/2" = 1'-0"

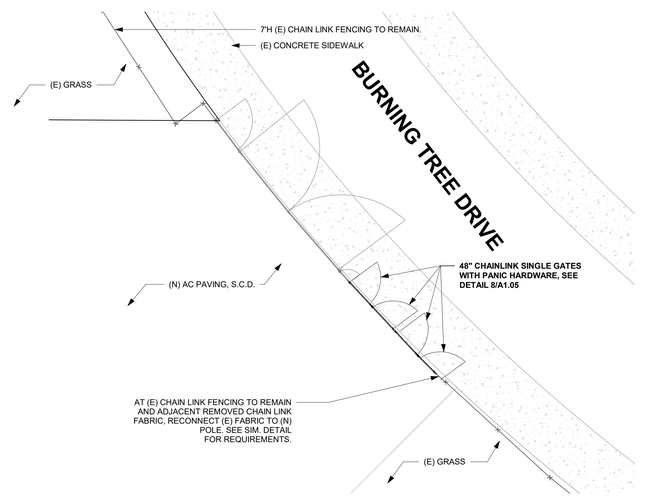


4 TRUNCATED DOMES
SCALE: 1" = 1'-0"



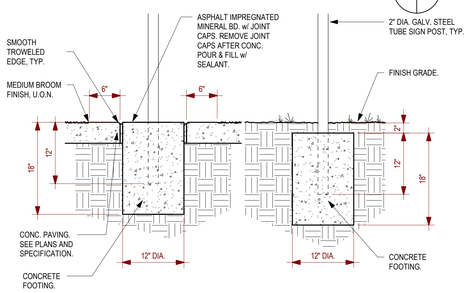
18 NEW ENLARGED SOUTH GATE PLAN
SCALE: 1/8" = 1'-0"

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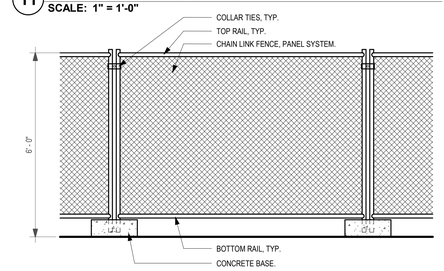


10 02 - NEW ENLARGED NORTH GATE PLAN
SCALE: 1/8" = 1'-0"

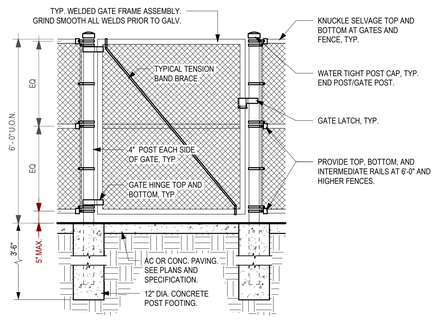
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11 SITE SIGNAGE FOOTING
SCALE: 1" = 1'-0"



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



16 TYPICAL CHAIN LINK FENCE
SCALE: 1/2" = 1'-0"

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. DITTENHAFER NO. C44340 EXP. 08.31.2026 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

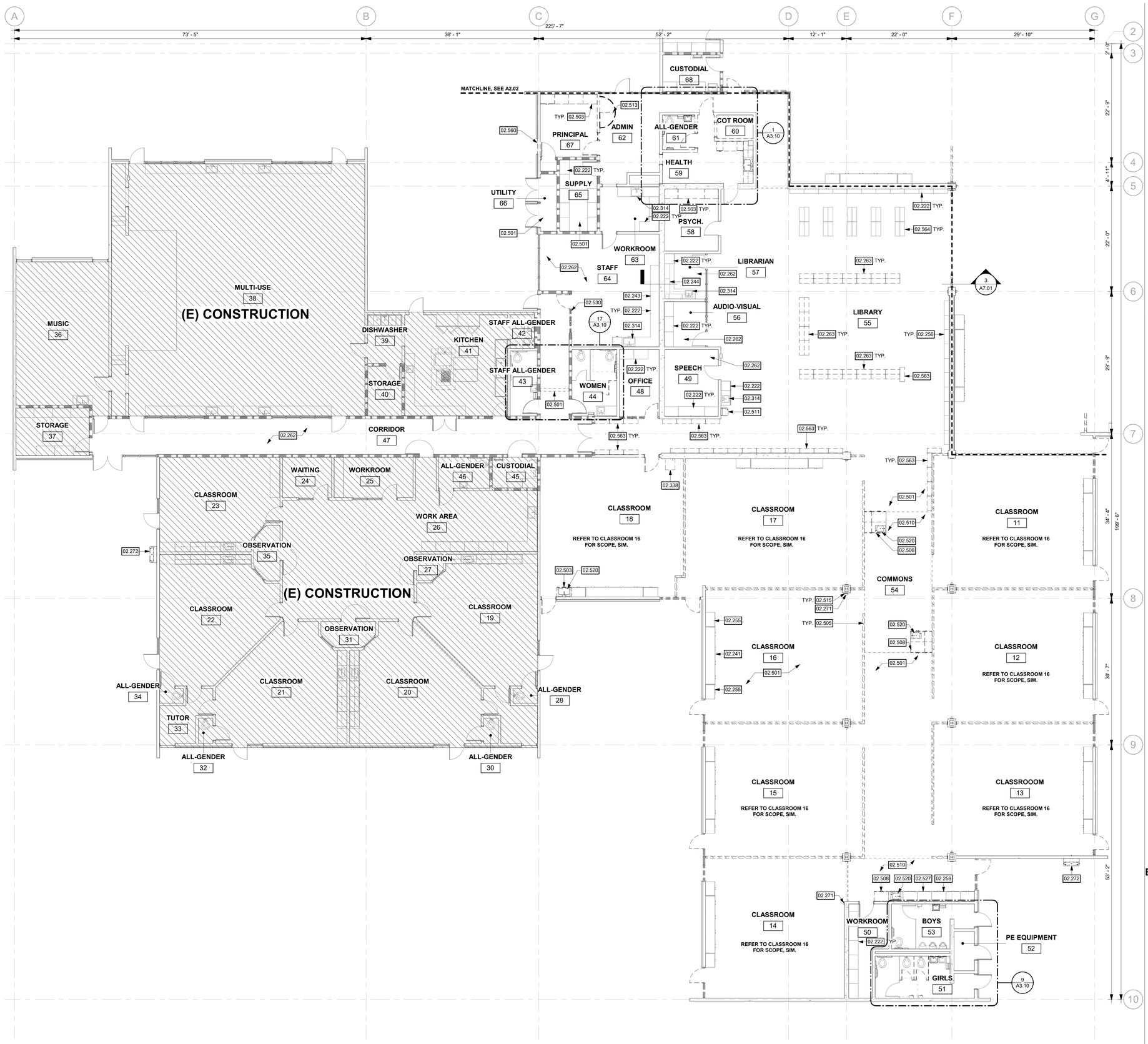
SITE DETAILS

DATE 09/05/2025

JOB # 2024022

SHEET # A1.05

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1 BUILDING A - DEMOLITION FLOOR PLAN - PART A

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 STRUCTURAL, 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 REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE DEMOLISHED. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS.

G ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SLAB BY MECHANICAL MEANS U.O.N. TOP OF EXISTING SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING.

H EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

I REMOVE (E) WALL FINISH AS REQUIRED FOR CONSTRUCTION ACCESS REQUIRED FOR NEW WORK. PATCH BACK FINISH IN KIND.

J SEE PLUMBING PLANS FOR UNDERGROUND WORK. DEMO (E) SLAB AS REQUIRED. PATCH BACK PER 5 / S5.01

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

L AT REMOVED DOOR, SALVAGE ALL LOCKSETS AND TURNOVER TO OWNER.

DEMOLITION FLOOR PLAN KEYNOTES

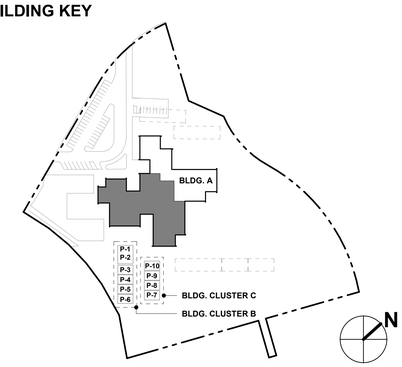
02.222	(E) CASEWORK TO REMAIN.
02.241	BASE SCOPE: (E) TEACHING WALL CASEWORK. PREP EXPOSED SURFACES FOR NEW FINISH. REMOVE RECESSED PULLS AND LOCKS. FILL VOIDS. ALTERNATE #1: REMOVE (E) TEACHING WALL CASEWORK. PREP FOR NEW CASEWORK.
02.243	(E) COUNTERTOP TO REMAIN.
02.244	(E) WALL CABINETS TO REMAIN.
02.255	BASE SCOPE: (E) FULL HEIGHT WALL CASEWORK. PREP EXPOSED SURFACES FOR NEW FINISH. ALTERNATE #1: REMOVE (E) FULL-HEIGHT CASEWORK. PREP FOR NEW CASEWORK.
02.256	(E) FULL HEIGHT CASEWORK TO REMAIN.
02.259	BASE SCOPE: (E) BASE CABINETS. PREP EXPOSED SURFACES FOR NEW FINISH. ALTERNATE #1: REMOVE (E) BASE CABINETS. PREP FOR NEW CASEWORK.
02.262	(E) FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
02.263	SALVAGE NON-FIXED SHELVING.
02.271	SALVAGE (E) FIRE EXTINGUISHER FOR REINSTALLATION.
02.272	REMOVE (E) DRINKING FOUNTAIN, S.P.D.
02.314	(E) SINK TO REMAIN.
02.338	(E) IDF TO REMAIN.
02.501	REMOVE (E) FLOORING, PATCH AND PREP SUBFLOOR AS REQUIRED FOR NEW FLOORING.
02.503	REMOVE (E) BASE CASEWORK AND ASSOCIATED LENGTH OF CASEWORK. PATCH AND PAINT WALL TO MATCH ADJACENT AT REMOVED CABINET.
02.505	REMOVE (E) MOBILE PARTITION WALL, TRACK, ANCHORAGE, AND WD. TRIM IN THEIR ENTIRETY.
02.508	REMOVE (E) BASE CABINETS. PATCH AND PREP ADJACENT WALL FOR PAINTING.
02.510	REMOVE (E) VCT FLOORING, PATCH AND PREP SUBFLOOR AS REQUIRED FOR NEW FLOORING.
02.511	(E) DRINKING FOUNTAIN TO BE REMOVED BY OWNER.
02.513	REMOVE (E) PARTIAL HEIGHT DOOR.
02.515	REMOVE (E) WOOD TRIM AND MOBILE TRACK IN ITS ENTIRETY.
02.520	REMOVE (E) SINK, S.P.D.
02.527	REMOVE (E) COUNTERTOP.
02.530	REMOVE (E) STOREFRONT AND DOOR.
02.560	REMOVE PORTION OF (E) CONCRETE WALL. SEE NEW FLOOR PLAN AND S.S.D. FOR MORE INFORMATION. PATCH AND PAINT.
02.563	(E) FIXED FURNITURE, SALVAGE AND RETURN TO OWNER.
02.564	(E) MOBILE CASEWORK, SALVAGE FOR REINSTALLATION.

GRAPHIC KEY

WALL TYPES:

- EXISTING MOBILE PARTITION TO BE DEMOLISHED
- EXISTING FRAMED WALL TO BE DEMOLISHED
- EXISTING FRAMED WALL TO REMAIN
- (E) 1HR. WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) DOOR AND FRAME TO REMAIN, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) DOOR AND FRAME TO BE REMOVED, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) STOREFRONT TO REMAIN.
- (E) STOREFRONT TO BE REMOVED.

BUILDING KEY



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LICENSED ARCHITECT — JOHN C. DITTENHAFER — NO. C49340 — REN. 07/31/27 — STATE OF CALIFORNIA

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DSA SUB	09/05/2025

SHEET

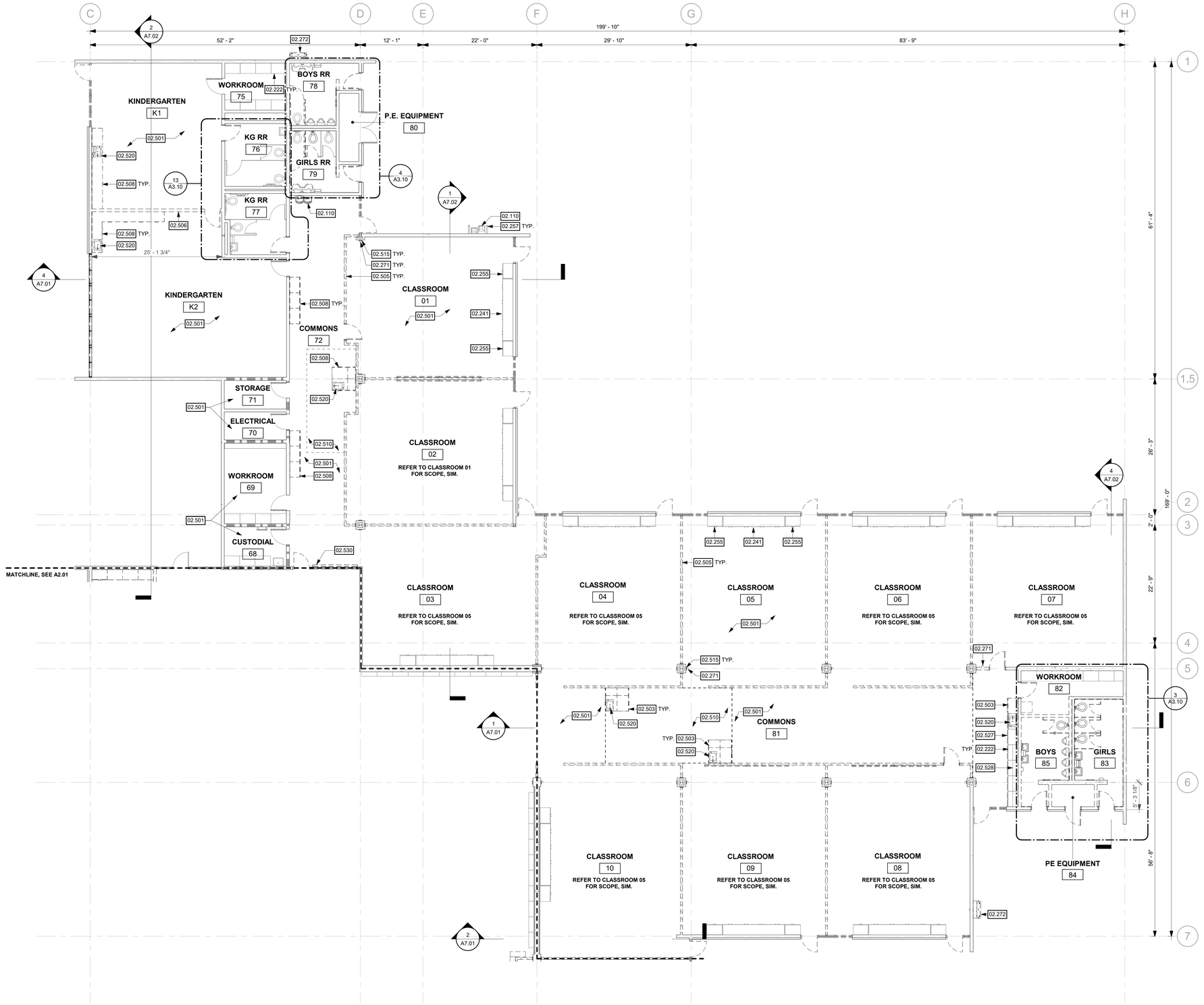
DEMOLITION FLOOR PLAN - BUILDING A, PART A

DATE 09/05/2025

JOB # 2024022

SHEET # A2.01

4/27/2026 11:38:10 AM



1 BUILDING A - DEMOLITION FLOOR PLAN - PART B
SCALE: 1/8" = 1'-0"

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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 REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE DEMOLISHED. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

F AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS.

G ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SLAB BY MECHANICAL MEANS U.O.N. TOP OF EXISTING SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING.

H EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

I REMOVE (E) WALL FINISH AS REQUIRED FOR CONSTRUCTION ACCESS REQUIRED FOR NEW WORK. PATCH BACK FINISH IN KIND.

J SEE PLUMBING PLANS FOR UNDERGROUND WORK. DEMO (E) SLAB AS REQUIRED. PATCH BACK PER 5 / S5.01

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

L AT REMOVED DOOR, SALVAGE ALL LOCKSETS AND TURNOVER TO OWNER.

DEMOLITION FLOOR PLAN KEYNOTES

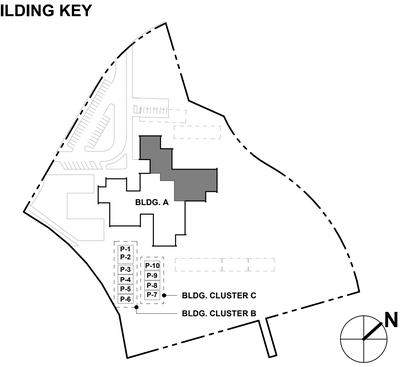
02.110	(E) D.A. HI-LO DRINKING FOUNTAIN
02.222	(E) CASEWORK TO REMAIN.
02.241	BASE SCOPE: (E) TEACHING WALL CASEWORK. PREP EXPOSED SURFACES FOR NEW FINISH. REMOVE RECESSED PULLS AND LOCKS, FILL VOIDS. ALTERNATE #1: REMOVE (E) TEACHING WALL CASEWORK. PREP FOR NEW CASEWORK.
02.255	BASE SCOPE: (E) FULL HEIGHT WALL CASEWORK. PREP EXPOSED SURFACES FOR NEW FINISH. ALTERNATE #1: REMOVE (E) FULL-HEIGHT CASEWORK. PREP FOR NEW CASEWORK.
02.257	(E) STAINLESS STEEL RAILING
02.271	SALVAGE (E) FIRE EXTINGUISHER FOR REINSTALLATION.
02.272	REMOVE (E) DRINKING FOUNTAIN, S.P.D.
02.501	REMOVE (E) FLOORING, PATCH AND PREP SUBFLOOR AS REQUIRED FOR NEW FLOORING.
02.503	REMOVE (E) BASE CASEWORK AND ASSOCIATED LENGTH OF CASEWORK. PATCH AND PAINT WALL TO MATCH ADJACENT AT REMOVED CABINET.
02.505	REMOVE (E) MOBILE PARTITION WALL, TRACK, ANCHORAGE, AND WD. TRIM IN THEIR ENTIRETY.
02.506	REMOVE (E) 8'H FRAMED WALL AND DOOR.
02.508	REMOVE (E) BASE CABINETS. PATCH AND PREP ADJACENT WALL FOR PAINTING.
02.510	REMOVE (E) VCT FLOORING, PATCH AND PREP SUBFLOOR AS REQUIRED FOR NEW FLOORING.
02.515	REMOVE (E) WOOD TRIM AND MOBILE TRACK IN ITS ENTIRETY.
02.520	REMOVE (E) SINK, S.P.D.
02.527	REMOVE (E) COUNTERTOP.
02.528	(E) WALL CABINETS TO REMAIN
02.530	REMOVE (E) STOREFRONT AND DOOR.

GRAPHIC KEY

WALL TYPES:

- EXISTING MOBILE PARTITION TO BE DEMOLISHED
- EXISTING FRAMED WALL TO BE DEMOLISHED
- EXISTING FRAMED WALL TO REMAIN
- (E) 1HR. WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) DOOR AND FRAME TO REMAIN, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) DOOR AND FRAME TO BE REMOVED, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) STOREFRONT TO REMAIN.
- (E) STOREFRONT TO BE REMOVED.

BUILDING KEY



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tel: (408)-300-5160
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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN PITTENGER NO. C44900 REN. 07/31/2027 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

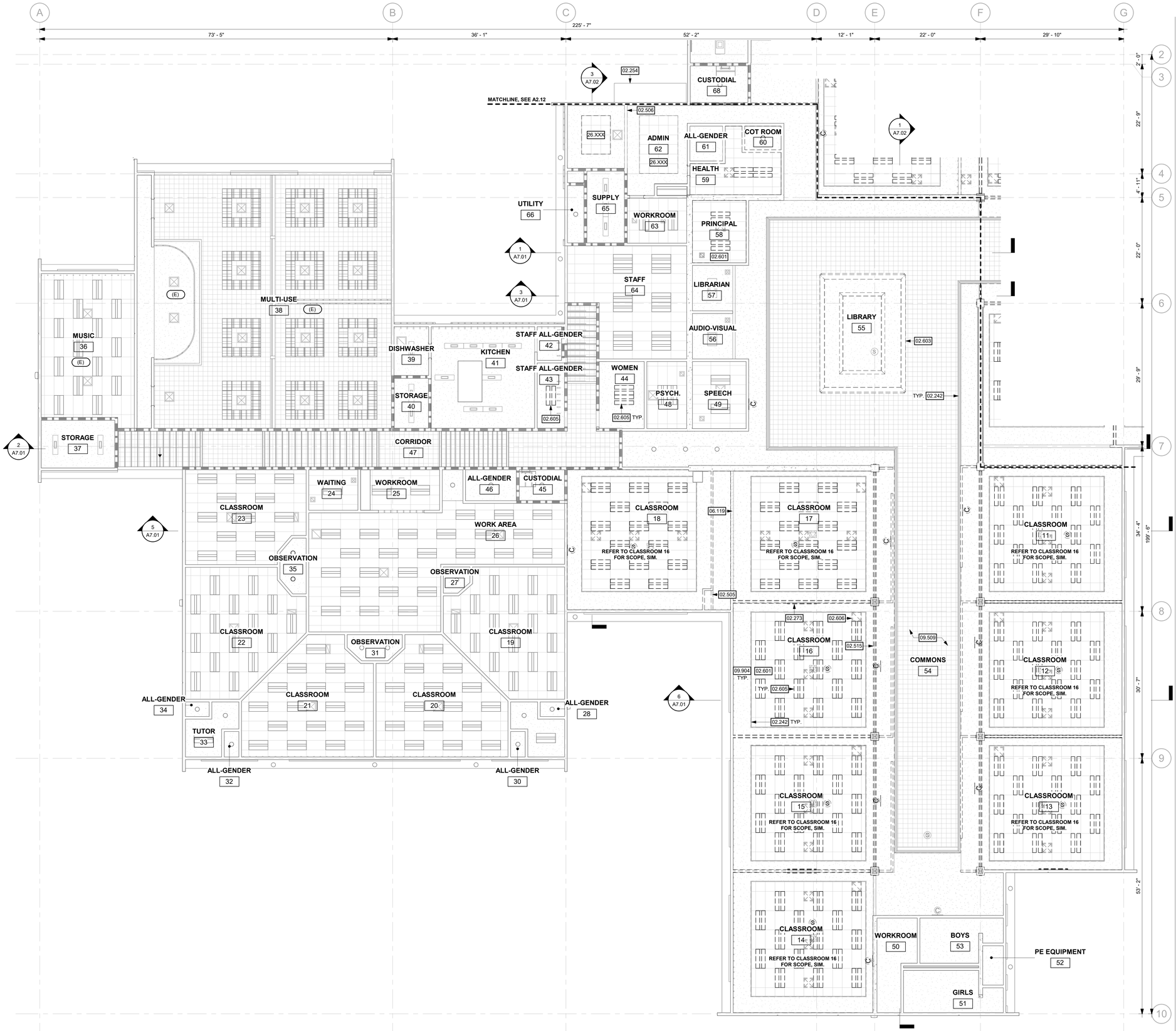
DEMOLITION FLOOR PLAN - BUILDING A, PART B

DATE 09/05/2025

JOB # 2024022

SHEET # A2.02

4/27/2026 11:36:14 AM



1 BUILDING A - DEMOLITION RCP - PART A

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

GENERAL SHEET NOTES

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

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

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

D SPRINKLER HEADS, WHERE APPLY, SHALL BE PLACED IN THE CENTER OF SUSPENDED ACOUSTICAL CEILING TILES OR EVENLY SPACED AND CENTERED ON INDIVIDUAL SECTION OF EXPOSED ROOF STRUCTURE.

E PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

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

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

DEMOLITION REFLECTED CEILING PLAN KEYNOTES

02.242 (E) WOOD TRIM TO REMAIN.
02.254 (E) EXTERIOR AWNING TO REMAIN.
02.273 REMOVE (E) PROJECTOR SCREEN.
02.505 REMOVE (E) MOBILE PARTITION WALL, TRACK, ANCHORAGE, AND WD. TRIM IN THEIR ENTIRETY.
02.506 REMOVE (E) 8'H FRAMED WALL AND DOOR.
02.515 REMOVE (E) WOOD TRIM AND MOBILE TRACK IN ITS ENTIRETY.
02.601 REMOVE (E) SUSPENDED CEILING.
02.603 REMOVE (E) SUSPENDED FRAMED DECORATIVE CEILING IN IT ENTIRETY. SEE DETAIL 7 / A11.01
02.605 REMOVE (E) LIGHT FIXTURE, S.E.D.
02.606 REMOVE (E) MECHANICAL GRILLE, S.M.D.
06.119 (E) WD. BEAM TO REMAIN.
09.509 SALVAGE AND REINSTALL KEYED CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS, DO NOT ALTER GRID OR SUSPENSION
09.904 REFINISH (E) GYP. BOARD CEILING TO REMOVE POPCORN FINISH.
26.XX
X

GRAPHIC KEY

(E) 2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING

(E) GYPSUM BOARD CEILING OR SOFFIT TO BE REMOVED

(E) 12" x 12" SUSPENDED KEYED ACOUSTICAL PANEL CEILING

(E) GYPSUM BOARD CEILING OR SOFFIT

(E) GYPSUM BOARD CEILING OR SOFFIT TO BE REMOVED

ELECTRICAL SYMBOLS

(E) LIGHTING TO BE REMOVED

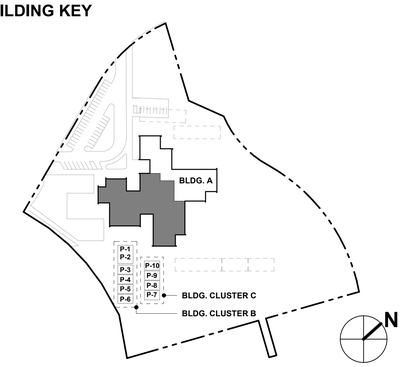
(E) LIGHTING TO REMAIN

MECHANICAL SYMBOLS

(E) MECHANICAL TO BE REMOVED

(E) MECHANICAL TO REMAIN

BUILDING KEY



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT NO. C40400 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

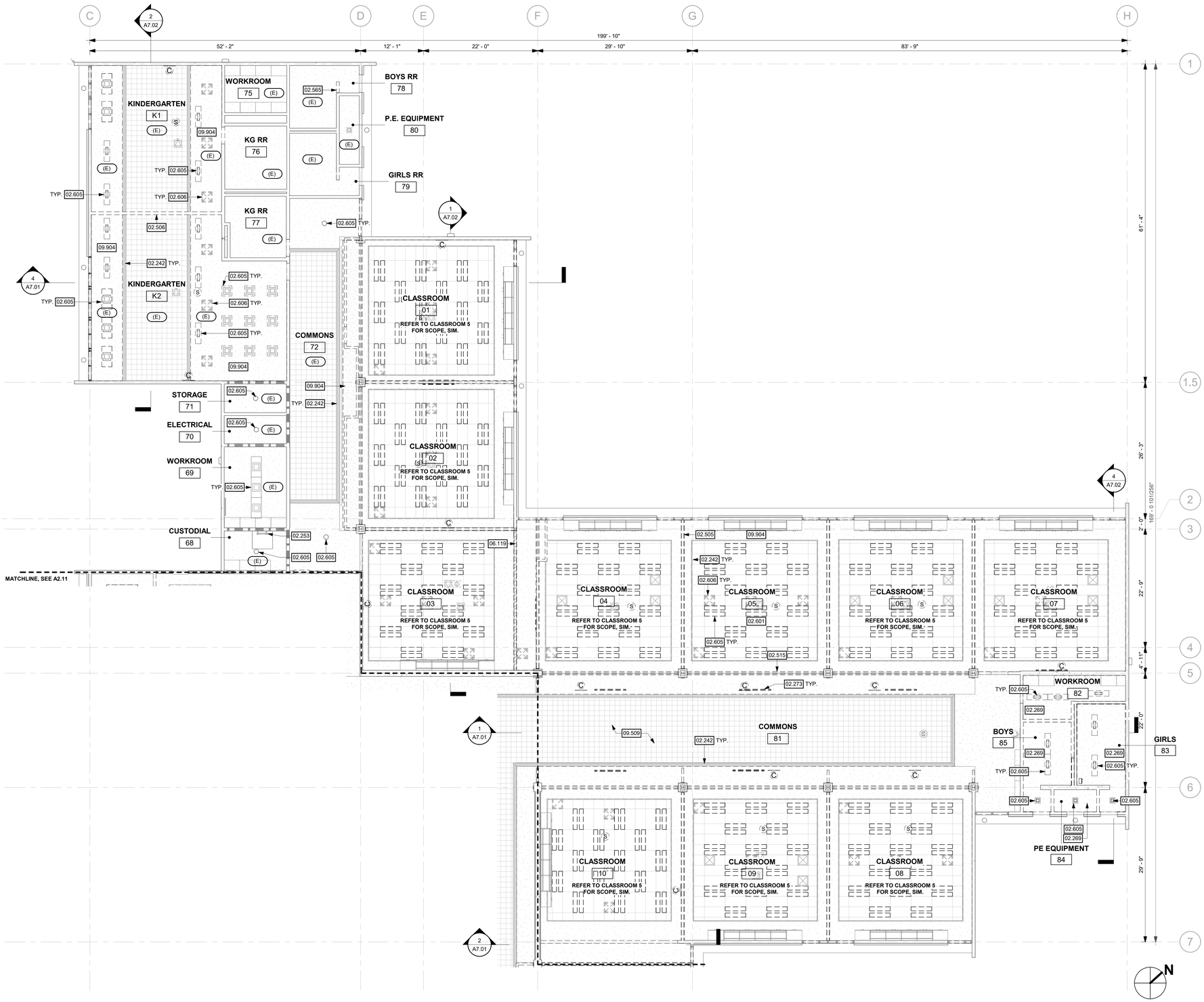
DEMOLITION REFLECTED CEILING PLAN - BUILDING A, PART A

DATE 09/05/2025

JOB # 2024022

SHEET # A2.11

4/27/2026 11:38:21 AM



1 BUILDING A - DEMOLTION RCP - PART B

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

GENERAL SHEET NOTES

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

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

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

D SPRINKLER HEADS, WHERE APPLY, SHALL BE PLACED IN THE CENTER OF SUSPENDED ACOUSTICAL CEILING TILES OR EVENLY SPACED AND CENTERED ON INDIVIDUAL SECTION OF EXPOSED ROOF STRUCTURE.

E PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

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

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

DEMOLITION REFLECTED CEILING PLAN KEYNOTES

02.242 (E) WOOD TRIM TO REMAIN.
02.253 (E) ROOF ACCESS LADDER.
02.269 REMOVE (E) GYP. BD. , (E) FRAMING TO REMAIN.
02.273 REMOVE (E) PROJECTOR SCREEN.
02.505 REMOVE (E) MOBILE PARTITION WALL, TRACK, ANCHORAGE, AND WD. TRIM IN THEIR ENTIRETY.
02.506 REMOVE (E) 8'H FRAMED WALL AND DOOR.
02.515 REMOVE (E) WOOD TRIM AND MOBILE TRACK IN ITS ENTIRETY.
02.565 REMOVE (E) CONCRETE WALL PORTION, S.S.D. FOR MORE INFORMATION.
02.601 REMOVE (E) SUSPENDED CEILING.
02.605 REMOVE (E) LIGHT FIXTURE, S.E.D.
02.606 REMOVE (E) MECHANICAL GRILLE, S.M.D.
06.119 (E) WD. BEAM TO REMAIN.
09.509 SALVAGE AND REINSTALL KEYED CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS, DO NOT ALTER GRID OR SUSPENSION
09.904 REFINISH (E) GYP. BOARD CEILING TO REMOVE POPCORN FINISH.

GRAPHIC KEY

(E) 2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING

(E) GYPSUM BOARD CEILING OR SOFFIT TO BE REMOVED

(E) 12" x 12" SUSPENDED KEYED ACOUSTICAL PANEL CEILING

(E) GYPSUM BOARD CEILING OR SOFFIT

(E) GYPSUM BOARD CEILING OR SOFFIT TO BE REMOVED

ELECTRICAL SYMBOLS

(E) LIGHTING TO BE REMOVED

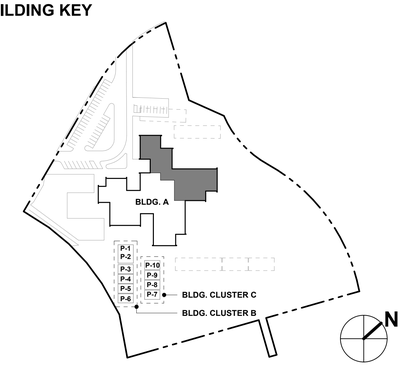
(E) LIGHTING TO REMAIN

MECHANICAL SYMBOLS

(E) MECHANICAL TO BE REMOVED

(E) MECHANICAL TO REMAIN

BUILDING KEY



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN PITTENGER NO. C44940 REN. 07.31.27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

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MILESTONES

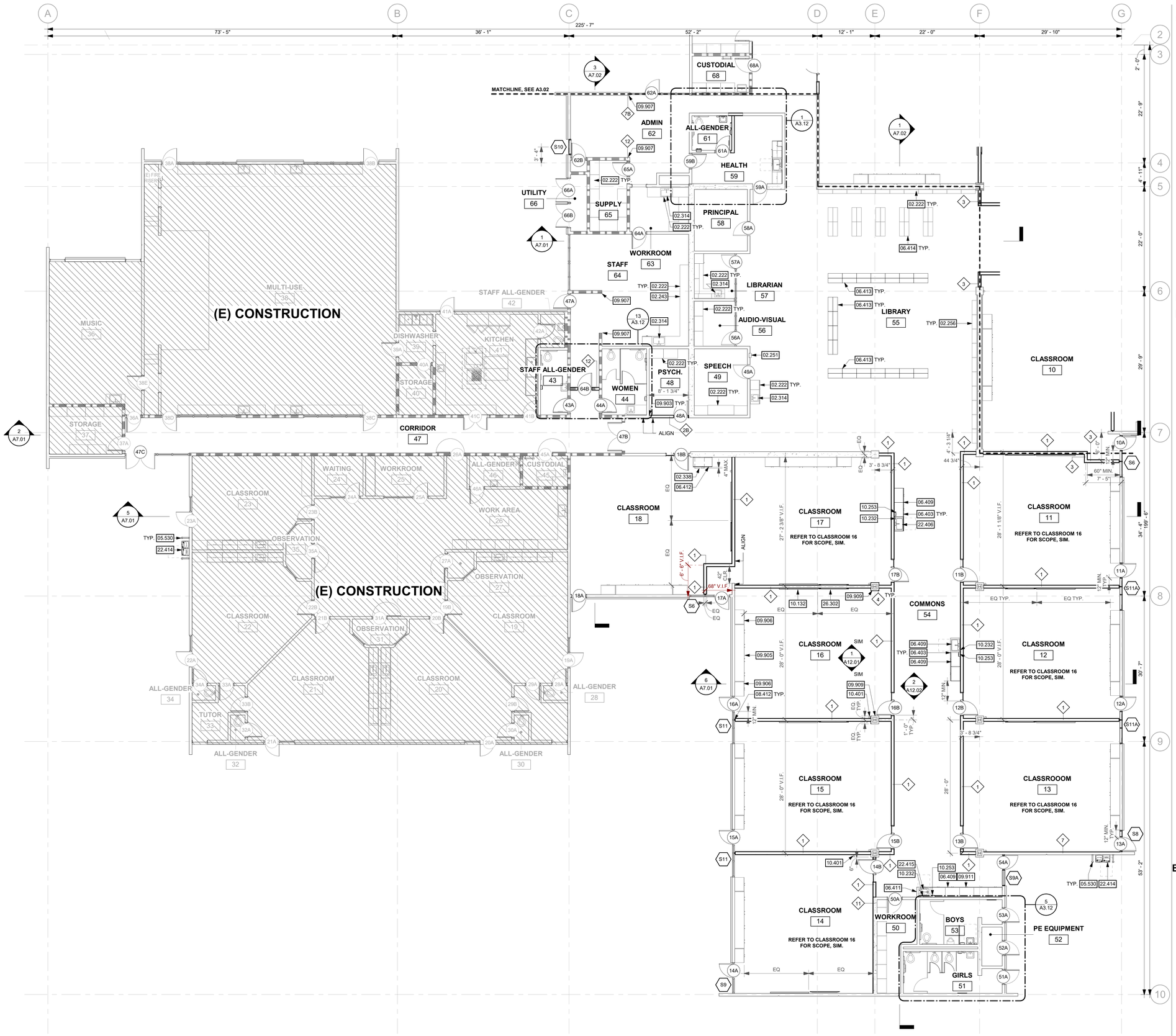
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DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

DEMOLITION REFLECTED CEILING PLAN - BUILDING A, PART B

DATE 09/05/2025
JOB # 2024022
SHEET # A2.12

4/27/2026 11:38:26 AM



1 BUILDING A - NEW FLOOR PLAN - PART B

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

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

E ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

F PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

G FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.

H WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

I REFER TO WALL TYPE PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

J REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

K DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

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

KEYNOTES

02.222 (E) CASEWORK TO REMAIN.
02.243 (E) COUNTERTOP TO REMAIN.
02.251 (E) FIRE EXTINGUISHER CABINET TO REMAIN.
02.256 (E) FULL HEIGHT CASEWORK TO REMAIN.
02.314 (E) SINK TO REMAIN.
02.338 (E) IDF TO REMAIN.
05.530 1 1/4" DIAMETER STAINLESS STEEL RAILING. SEE DETAIL 3 / A3.12
06.403 PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 8 / A11.10
06.409 SOLID SURFACE COUNTERTOP, SEE DETAIL 6 / A11.10
06.411 CASEWORK END PANEL AND COUNTERTOP EDGING TO MATCH ADJACENT.
06.412 BASE CABINET C104 W/SOLID SURFACE COUNTER.
06.413 REINSTALL NON-FIXED SHELVING (5'-9" MAX HEIGHT).
06.414 REINSTALL SALVAGED MOBILE CASEWORK (5'-9" MAX)
08.412 PARTITION GAP CLOSURE, SEE DETAIL 12 / A10.03
09.903 DRY ERASE WALL COVERING COATING
09.905 BASE SCOPE: (E) TEACHING WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). REPLACE SLIDING WHITEBOARD WITH SLIDING TACK PANELS. ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PROVIDE ONE FULL-HEIGHT CABINET, SEE CASEWORK SCHEDULE CABINET #402, LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.906 BASE SCOPE: (E) FULL HEIGHT WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PATCH AND PAINT FULL WALL ELEVATION. PROVIDE TWO BASE CABINETS, SEE CASEWORK SCHEDULE CABINET #103, LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.907 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
09.909 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL TRIM.
09.911 (E) BASE HEIGHT CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). (E) COUNTERTOP TO REMAIN.
10.132 4" X 8" MAGNETIC MARKERBOARD.
10.232 STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253 FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
10.401 REINSTALL PORTABLE FIRE EXTINGUISHER AND WALL BRACKET, MIN. RATING OF 2-A:20-B:C. SEE DETAIL 3 / A9.10
22.406 SINK, S.P.D.
22.414 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 4 / A3.12
22.415 SINK AND BUBBLER, S.P.D.
26.302 85" DISPLAY MONITOR O.F.C.I. AND ELECTRONIC MOUNTING O.F.C.I., SEE DETAIL 1 / A9.10

GRAPHIC KEY

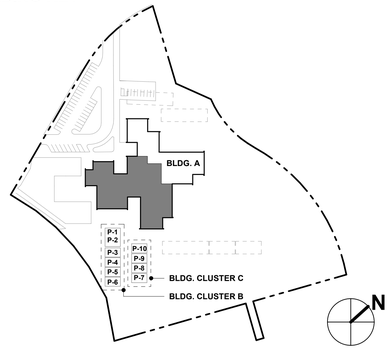
WALL TYPES

- EXISTING FRAMED WALL TO REMAIN
- WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.
- STUD WALL
- 1 HR FIRE PARTITION
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL

FIXTURE TYPES:

- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
- F.E.C. F.E.C. FIRE EXTINGUISHER CABINETS
- DRAWING MATCHLINE

BUILDING KEY



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN C. PITTENGER — NO. C34040 — EXP. 8/31/2027 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date
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MILESTONES

SD	01/23/2025
DD	05/21/2025
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DSA SUB	09/05/2025

SHEET

NEW FLOOR PLAN - BUILDING A, PART A

DATE 09/05/2025

JOB # 2024022

SHEET # A3.01

4/27/2026 11:38:32 AM



1 **BUILDING A - NEW FLOOR PLAN - PART A**
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 STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

E ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

F PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

G FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.

H WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

I REFER TO WALL TYPE PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

J REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

K DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

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

KEYNOTES

09.914 PATCH EPOXY FLOORING AND WALL BASE TO MATCH ADJACENT

GRAPHIC KEY

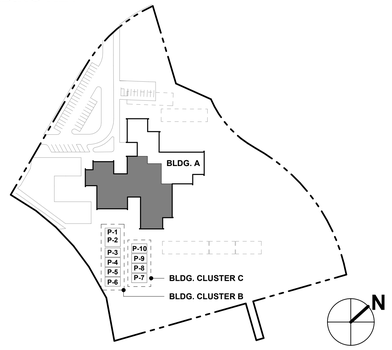
WALL TYPES

- EXISTING FRAMED WALL TO REMAIN
- WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP. (STUD WALL)
- 1 HR FIRE PARTITION
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL

FIXTURE TYPES:

- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
- F.E.C. F.E.C. FIRE EXTINGUISHER CABINETS
- DRAWING MATCHLINE

BUILDING KEY



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH PITTENGER — NO. C44540 — REN. 07/31/27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

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MILESTONES

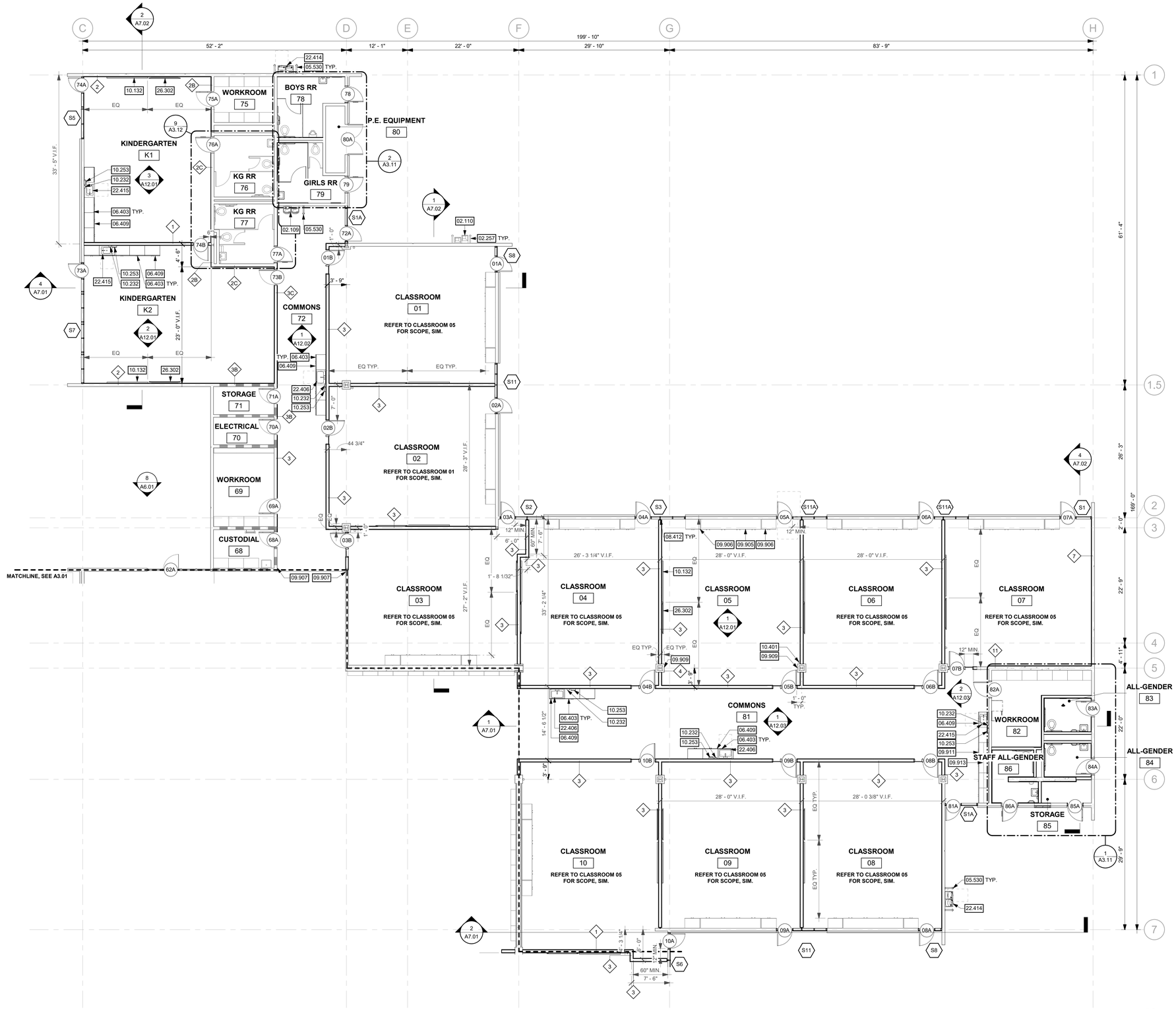
SD	01/23/2025
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DSA SUB	09/05/2025

SHEET

NEW FINISH FLOOR PLAN - BUILDING A, PART A

DATE 09/05/2025
JOB # 2024022
SHEET # A3.01B

4/27/2026 11:38:38 AM



1 **BUILDING A - NEW FLOOR PLAN - PART B**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

D PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

E ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

F PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

G FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.

H WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

I REFER TO WALL TYPE PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

J REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

K DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

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

KEYNOTES

02.109	(E) INTERIOR DRINKING FOUNTAIN
02.110	(E) D.A. HI-LO DRINKING FOUNTAIN
02.257	(E) STAINLESS STEEL RAILING
05.530	1 1/4" DIAMETER STAINLESS STEEL RAILING. SEE DETAIL 3 / A3.12
06.403	PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 11 / A11.10
06.409	SOLID SURFACE COUNTERTOP, SEE DETAIL 6 / A11.10
08.412	PARTITION GAP CLOSURE, SEE DETAIL 12 / A10.03
09.905	BASE SCOPE: (E) TEACHING WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). REPLACE SLIDING WHITEBOARD WITH SLIDING TACK PANELS. ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PROVIDE ONE FULL-HEIGHT CABINET, SEE CASEWORK SCHEDULE CABINET #402, LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.906	BASE SCOPE: (E) FULL HEIGHT WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PATCH AND PAINT FULL WALL ELEVATION. PROVIDE TWO BASE CABINETS, SEE CASEWORK SCHEDULE CABINET #103, LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.907	PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
09.909	PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL TRIM.
09.911	(E) BASE HEIGHT CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). (E) COUNTERTOP TO REMAIN.
09.913	(E) WALL MOUNTED CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM).
10.132	4" X 8" MAGNETIC MARKERBOARD.
10.232	STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253	FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
10.401	REINSTALL PORTABLE FIRE EXTINGUISHER AND WALL BRACKET, MIN. RATING OF 2-A:20-B:C. SEE DETAIL 3 / A9.10
22.406	SINK, S.P.D.
22.414	D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 4 / A3.12
22.415	SINK AND BUBBLER, S.P.D.
26.302	85" DISPLAY MONITOR O.F.C.I. AND ELECTRONIC MOUNTING O.F.C.I., SEE DETAIL 1 / A9.10

GRAPHIC KEY

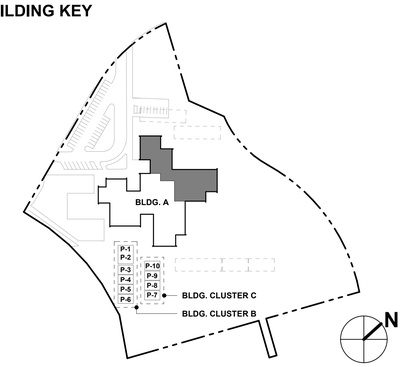
WALL TYPES

- EXISTING FRAMED WALL TO REMAIN
- WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.
- STUD WALL
- 1 HR FIRE PARTITION
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL

FIXTURE TYPES:

- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER CABINETS
- DRAWING MATCHLINE

BUILDING KEY



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fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN PITTENGER NO. C44040 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
1		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

NEW FLOOR PLAN - BUILDING A, PART B

DATE 09/05/2025

JOB # 2024022

SHEET # A3.02

4/27/2026 11:38:44 AM



1 BUILDING A - NEW FLOOR PLAN - PART A

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

C REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING AND STRUCTURAL MEMBER SIZES.

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J REFER TO FINISH PLAN AND SCHEDULE FOR IDENTIFICATION OF ALL FINISHES.

K DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

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

KEYNOTES

09.914 PATCH EPOXY FLOORING AND WALL BASE TO MATCH ADJACENT

GRAPHIC KEY

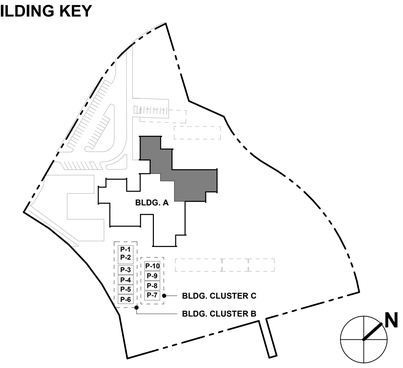
WALL TYPES

- EXISTING FRAMED WALL TO REMAIN
- WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.
- STUD WALL
- 1 HR FIRE PARTITION
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL

FIXTURE TYPES:

- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER CABINETS
- DRAWING MATCHLINE

BUILDING KEY



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH PITTENGER — NO. C40340 — STATE OF CALIFORNIA — REN. 07/31/27

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
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90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

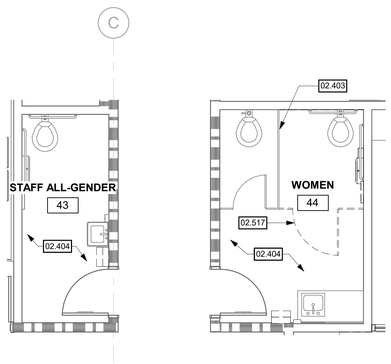
NEW FINISH FLOOR PLAN - BUILDING A, PART B

DATE 09/05/2025

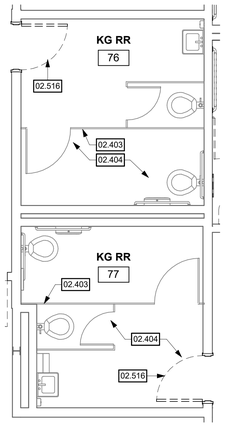
JOB # 2024022

SHEET # A3.02B

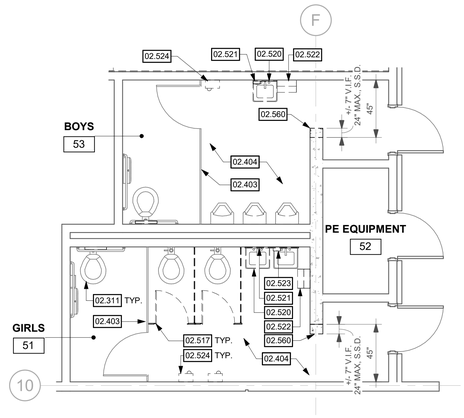
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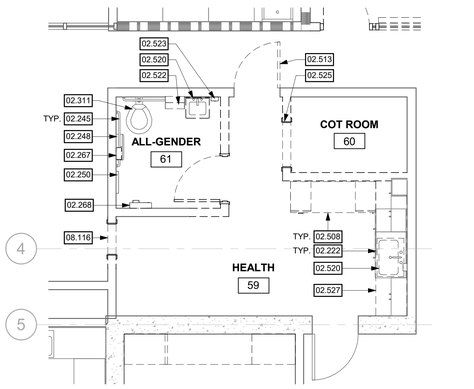
17 ENLARGED DEMO FLOOR PLAN - STAFF R.R.
SCALE: 1/4" = 1'-0"



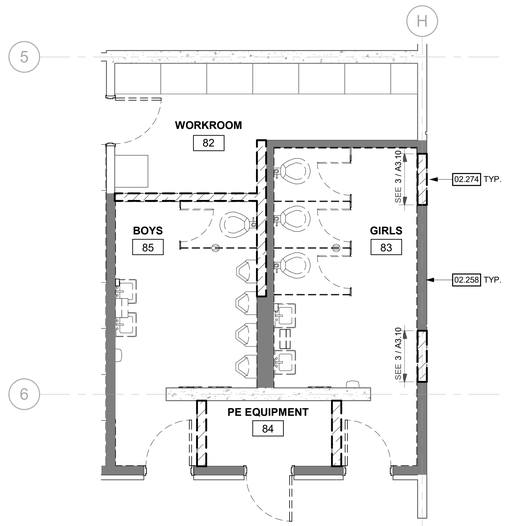
13 ENLARGED DEMO FLOOR PLAN - KG R.R.
SCALE: 1/4" = 1'-0"



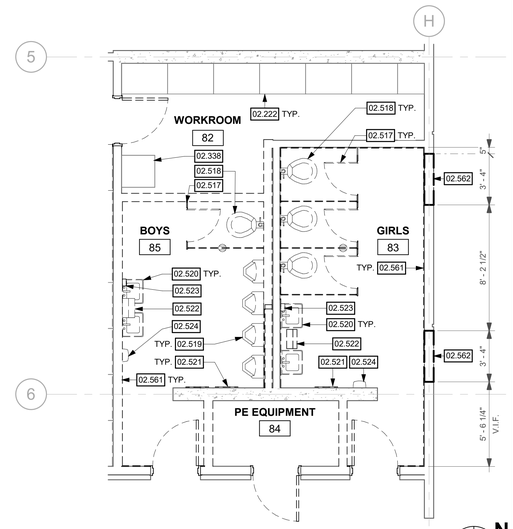
9 ENLARGED DEMO FLOOR PLAN - SOUTH R.R.
SCALE: 1/4" = 1'-0"



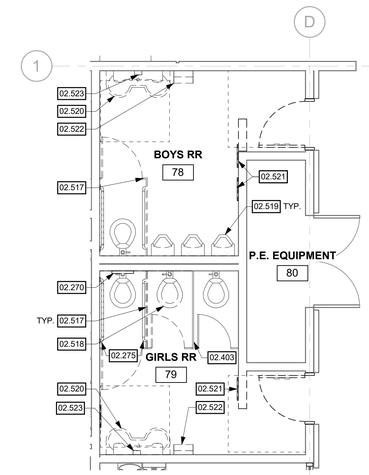
1 ENLARGED DEMO FLOOR PLAN - HEALTH R.R.
SCALE: 1/4" = 1'-0"



10 ENLARGED DEMO CURB FLOOR PLAN - EAST R.R.
SCALE: 1/4" = 1'-0"



3 ENLARGED DEMO FLOOR PLAN - EAST R.R.
SCALE: 1/4" = 1'-0"



4 ENLARGED DEMO FLOOR PLAN - NORTH R.R.
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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

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C ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

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

H REMOVE (E) WALL FINISH AS REQUIRED FOR CONSTRUCTION ACCESS REQUIRED FOR NEW WORK. PATCH BACK FINISH IN KIND.

I SEE PLUMBING PLANS FOR UNDERGROUND WORK, DEMO (E) SLAB AS REQUIRED, PATCH BACK PER 5/S5.01

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

ENLARGED PLAN KEYNOTES

02.222 (E) CASEWORK TO REMAIN.
02.245 (E) GRAB BARS TO REMAIN.
02.248 (E) TOILET PAPER DISPENSER TO REMAIN.
02.250 (E) SEAT COVER DISPENSER TO REMAIN.
02.258 (E) CURB TO REMAIN. SEE NEW ENLARGED FLOOR PLAN FOR EXTENTS.
02.267 SALVAGE (E) SANITARY WASTE DISPOSAL UNIT FOR REINSTALLATION.
02.268 REMOVE (E) SANITARY NAPKIN DISPENSER.
02.270 REMOVE (E) SEAT COVER DISPENSER.
02.274 REMOVE (E) CURB. SEE NEW ENLARGED FLOOR PLAN FOR EXTENTS.
02.275 REMOVE (E) GRAB BARS.
02.311 (E) WATER CLOSET TO REMAIN.
02.338 (E) IDF TO REMAIN.
02.403 TOILET PARTITION TO REMAIN. PROTECT DURING CONSTRUCTION.
02.404 ALL EXISTING FINISHED TO REMAIN, PROTECT DURING CONSTRUCTION.
02.508 REMOVE (E) BASE CABINETS. PATCH AND PREP ADJACENT WALL FOR PAINTING.
02.513 REMOVE (E) PARTIAL HEIGHT DOOR.
02.516 REMOVE (E) DOOR AND FRAME.
02.517 REMOVE (E) TOILET COMPARTMENT.
02.518 REMOVE (E) TOILET, S.P.D.
02.519 REMOVE (E) URINAL, S.P.D.
02.520 REMOVE (E) SINK, S.P.D.
02.521 REMOVE (E) MIRROR.
02.522 REMOVE (E) PAPER TOWEL DISPENSER.
02.523 REMOVE (E) SOAP DISPENSER.
02.524 REMOVE (E) HAND DRYER.
02.525 REMOVE (E) CASED OPENING.
02.527 REMOVE (E) COUNTERTOP.
02.560 REMOVE PORTION OF (E) CONCRETE WALL. SEE NEW FLOOR PLAN AND S.S.D. FOR MORE INFORMATION. PATCH AND PAINT.
02.561 REMOVE (E) GYP. BD. SUBSTRATE.
02.562 REMOVE (E) CURB AND FRAMING. PREP FOR NEW OPENING.
08.116 REMOVE (E) CASED OPENING AND ENLARGED WALL OPENING.

GRAPHIC KEY

WALL TYPES:

- EXISTING MOBILE PARTITION TO BE DEMOLISHED
- EXISTING FRAMED WALL TO BE DEMOLISHED
- EXISTING FRAMED WALL TO REMAIN
- (E) 1HR. WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) DOOR AND FRAME TO REMAIN, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) DOOR AND FRAME TO BE REMOVED, SEE DOOR SCHEDULE FOR MORE INFORMATION
- (E) STOREFRONT TO REMAIN.
- (E) STOREFRONT TO BE REMOVED.

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San Jose, CA 95113
tel: (408)-300-5160
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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH PITTENGER NO. C45940 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

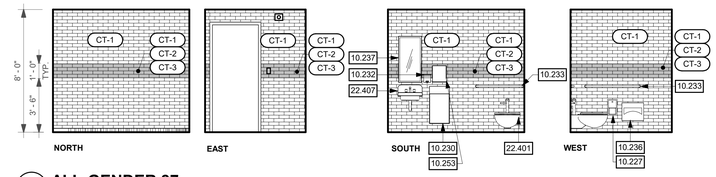
SHEET
DEMOLITION ENLARGED RESTROOM PLANS & ELEVATIONS

DATE 09/05/2025
JOB # 2024022
SHEET # A3.10

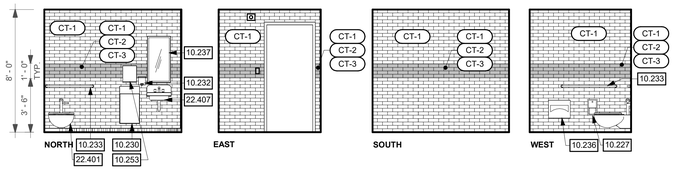
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9 STAFF ALL-GENDER
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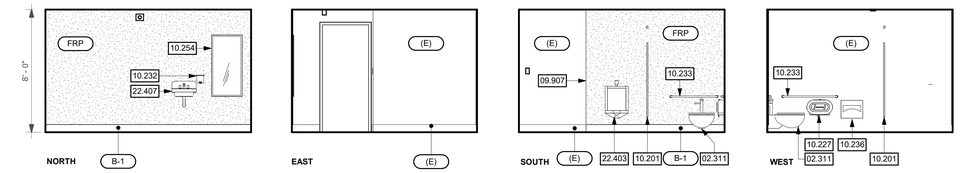
10 ALL-GENDER 87
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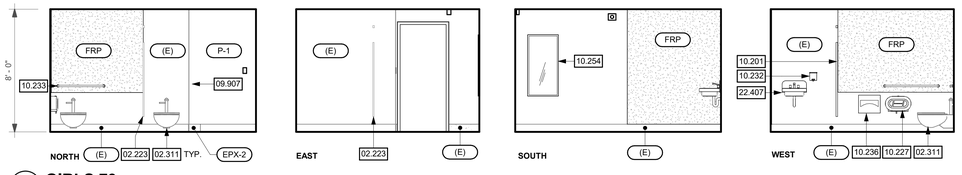
11 ALL-GENDER 88
SCALE: 1/4" = 1'-0"



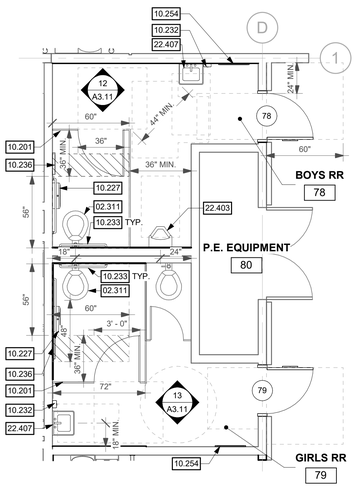
1 ENLARGED NEW FLOOR PLAN - EAST R.R.
SCALE: 1/4" = 1'-0"



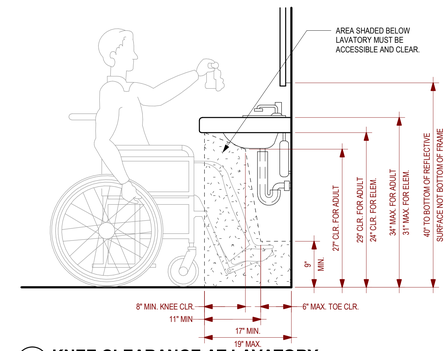
12 BOYS 78
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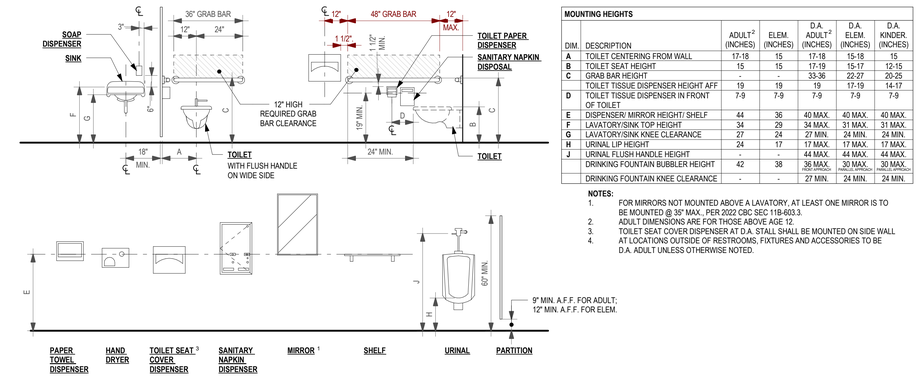
13 GIRLS 79
SCALE: 1/4" = 1'-0"



2 ENLARGED NEW FLOOR PLAN - NORTH R.R.
SCALE: 1/4" = 1'-0"



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

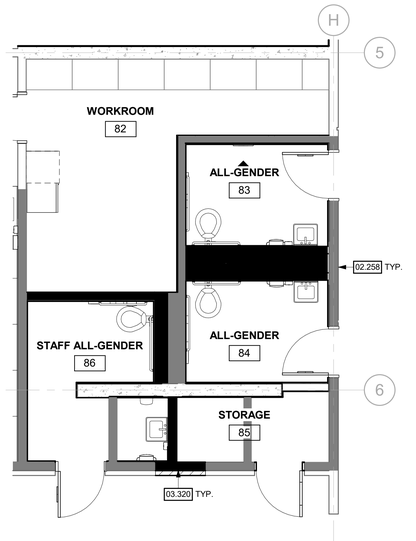


8 TYPICAL FIXTURE MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

MOUNTING HEIGHTS

DIM.	DESCRIPTION	ADULT[2] (INCHES)	ELEM. (INCHES)	D.A. ADULT[2] (INCHES)	D.A. ELEM. (INCHES)	D.A. KINDER. (INCHES)
A	TOILET CENTERING FROM WALL	17-18	15	17-18	15-18	15
B	TOILET SEAT HEIGHT	15	15	17-19	15-17	12-15
C	GRAB BAR HEIGHT	-	-	33-36	22-27	20-25
	TOILET TISSUE DISPENSER HEIGHT AFF	19	19	19	17-19	14-17
D	TOILET TISSUE DISPENSER IN FRONT OF TOILET	7-9	7-9	7-9	7-9	7-9
E	DISPENSER/ MIRROR HEIGHT/ SHELF	44	36	40 MAX.	40 MAX.	40 MAX.
F	LAVATORY/SINK TOP HEIGHT	34	29	34 MAX.	31 MAX.	31 MAX.
G	LAVATORY/SINK KNEE CLEARANCE	27	24	27 MIN.	24 MIN.	24 MIN.
H	URINAL LIP HEIGHT	24	17	17 MAX.	17 MAX.	17 MAX.
J	URINAL FLUSH HANDLE HEIGHT	-	-	44 MAX.	44 MAX.	44 MAX.
	DRINKING FOUNTAIN BUBBLER HEIGHT	42	38	36 MAX. (ADD APRON)	30 MAX. (WHEELCHAIR APRON)	30 MAX. (WHEELCHAIR APRON)
	DRINKING FOUNTAIN KNEE CLEARANCE	-	-	27 MIN.	24 MIN.	24 MIN.

NOTES:
1. FOR MIRRORS NOT MOUNTED ABOVE A LAVATORY, AT LEAST ONE MIRROR IS TO BE MOUNTED @ 35" MAX., PER 2022 CBC SEC 11B-603.3.
2. ADULT DIMENSIONS ARE FOR THOSE ABOVE AGE 12.
3. TOILET SEAT COVER DISPENSER AT D.A. STALL SHALL BE MOUNTED ON SIDE WALL
4. AT LOCATIONS OUTSIDE OF RESTROOMS, FIXTURES AND ACCESSORIES TO BE D.A. ADULT UNLESS OTHERWISE NOTED.



16 ENLARGED NEW CURB FLOOR PLAN - EAST R.R.
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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

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I SEE PLUMBING PLANS FOR UNDERGROUND WORK, DEMO (E) SLAB AS REQUIRED, PATCH BACK PER 5/SS.01

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ENLARGED PLAN KEYNOTES

02.222 (E) CASEWORK TO REMAIN.
02.223 (E) TOILET PARTITION
02.258 (E) CURB TO REMAIN. SEE NEW ENLARGED FLOOR PLAN FOR EXTENTS.
02.311 (E) WATER CLOSET TO REMAIN.
02.338 (E) IDF TO REMAIN.
03.320 NEW CONCRETE CURB, SEE DETAIL 9/SS.01
06.412 BASE CABINET C104 W/SOLID SURFACE COUNTER.
09.907 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
10.117 TOILET ROOM SIGNAGE. SEE DOOR SCHEDULE AND DETAIL 7 / A10.02
10.201 FLOOR MOUNTED, OVERHEAD BRACED, PAINTED STEEL TOILET PARTITION. SEE DETAIL 19 / A3.12
10.227 STAINLESS STEEL DOUBLE-ROLL TOILET TISSUE ROLL DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.230 STAINLESS STEEL RECESSED WASTE RECEPTACLE. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.232 STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.233 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.234 STAINLESS STEEL SEMI-RECESSED MOUNTED SANITARY NAPKIN AND TAMPON VENDOR. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.236 STAINLESS STEEL SURFACE MOUNTED SEAT-COVER DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.237 GLASS MIRROR, 24" X 36", SEE DETAIL 2 / A3.12
10.245 HIGH-SPEED AIR DRYER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253 FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
10.254 GLASS MIRROR, 24" X 48", SEE DETAIL 2 / A3.12
22.401 ACCESSIBLE WATER CLOSET, S.P.D.
22.403 D.A. URINAL, S.P.D.
22.407 ACCESSIBLE WALL-MOUNTED LAVATORY, S.P.D. AND SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL 8 / A3.11

GRAPHIC KEY

WALL TYPES

EXISTING FRAMED WALL TO REMAIN

WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL

1 HR FIRE PARTITION

EXISTING 1 HR FIRE PARTITION

EXISTING CONCRETE WALL

FIXTURE TYPES:

SEMI-RECESSED FIRE EXTINGUISHER CABINET

SURFACE-MOUNTED FIRE EXTINGUISHER CABINET

F.E.C. FIRE EXTINGUISHER CABINETS

DRAWING MATCHLINE

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

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN PITTENGER NO. C44540 EXP. 08.31.2025 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

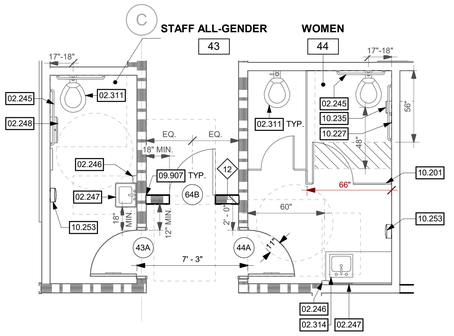
NEW ENLARGED RESTROOM PLANS, ELEVATIONS & DETAILS

DATE 09/05/2025

JOB # 2024022

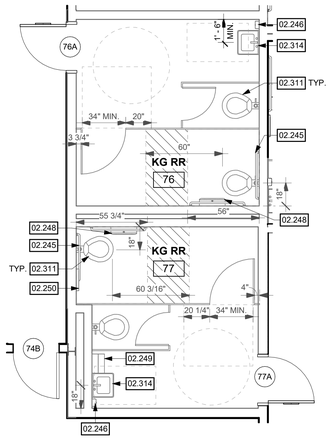
SHEET # A3.11

4/27/2026 12:32:36 PM



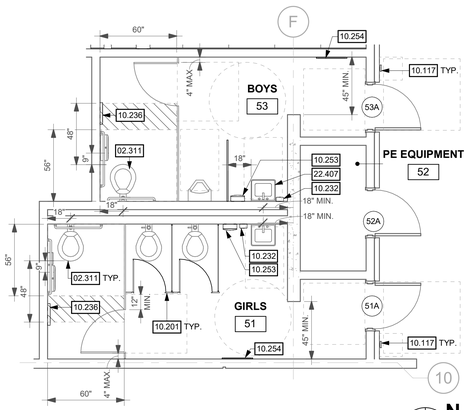
13 ENLARGED NEW FLOOR PLAN - STAFF R.R.

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



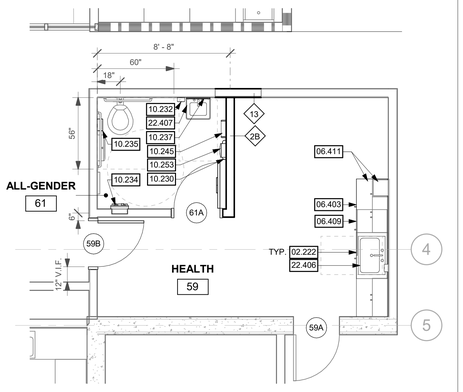
9 ENLARGED NEW FLOOR PLAN - KG R.R.

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



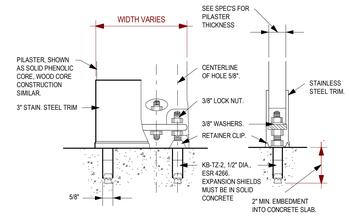
5 ENLARGED NEW FLOOR PLAN - SOUTH R.R.

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



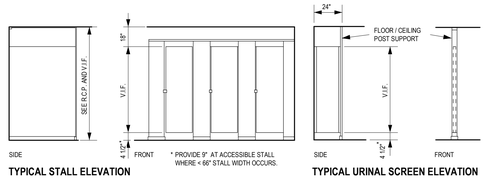
1 ENLARGED NEW FLOOR PLAN - HEALTH R.R.

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



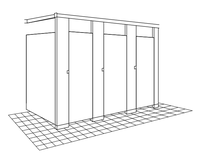
FLOOR ATTACHMENT DETAIL

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.

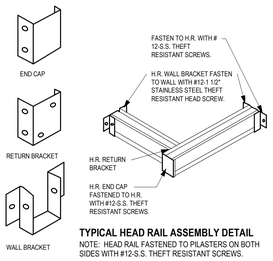


TYPICAL STALL ELEVATION

TYPICAL URINAL SCREEN ELEVATION

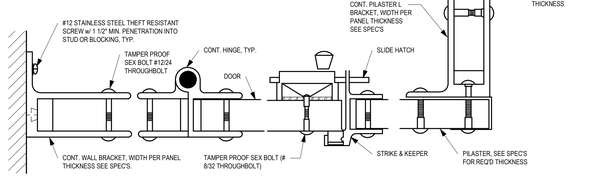


OVERHEAD BRACED



TYPICAL HEAD RAIL ASSEMBLY DETAIL

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

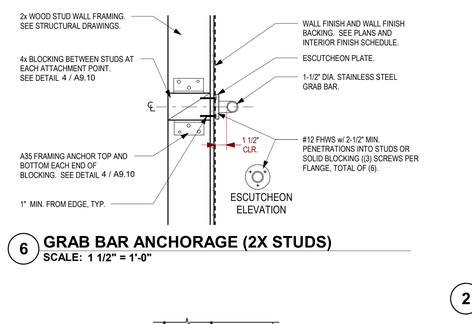


TYPICAL HORIZONTAL SECTION

NOTE: SEE SPEC'S FOR DOOR PULL REQUIREMENTS.

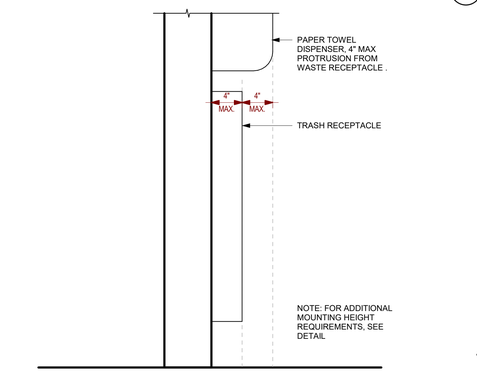
19 TOILET PARTITION ANCHORAGE DETAILS

SCALE: 12" = 1'-0"



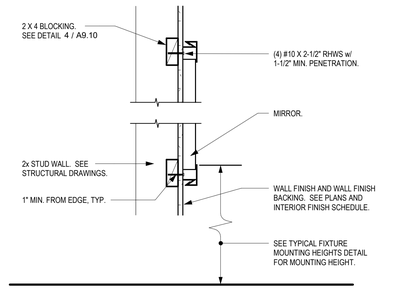
6 GRAB BAR ANCHORAGE (2X STUDS)

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



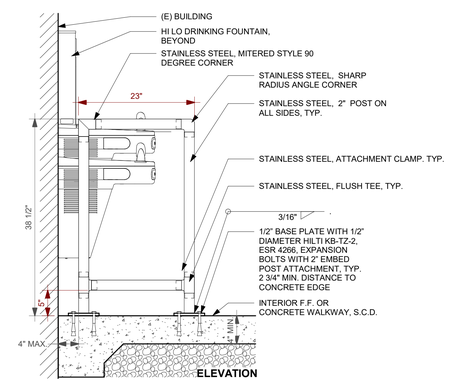
7 PAPER TOWEL DISPENSER

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



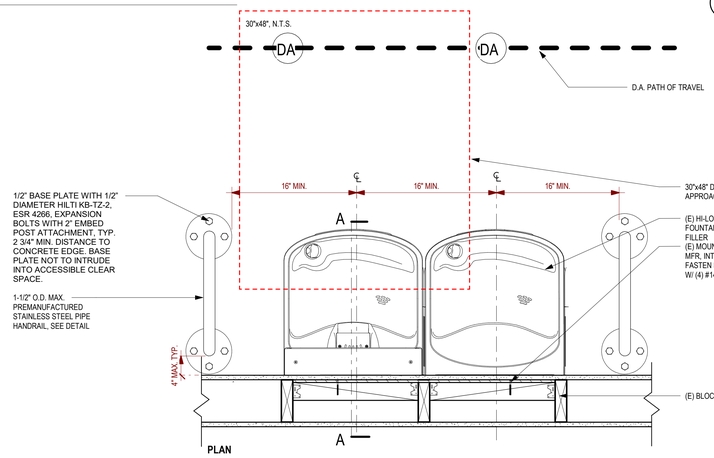
2 MIRROR MOUNTING (2x STUDS)

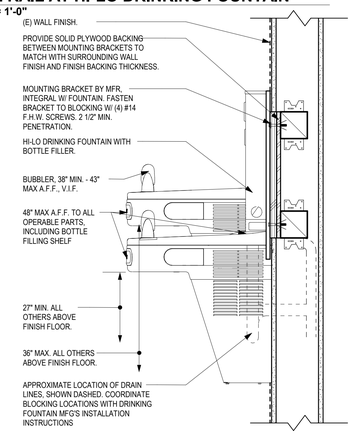
SCALE: 1 1/2" = 1'-0"



3 ALCOVE RAIL AT HI-LO DRINKING FOUNTAIN

SCALE: 1" = 1'-0"





4 HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLING STATION

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

GENERAL SHEET NOTES

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

B PROVIDE 6" CONCRETE CURB AT ALL EXTERIOR WALLS AND TOILET ROOM WALLS.

C ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.

D PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.

E FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.

F WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

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

H REMOVE (E) WALL FINISH AS REQUIRED FOR CONSTRUCTION ACCESS REQUIRED FOR NEW WORK. PATCH BACK FINISH IN KIND.

I SEE PLUMBING PLANS FOR UNDERGROUND WORK, DEMO (E) SLAB AS REQUIRED, PATCH BACK PER 5/S5.01

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

ENLARGED PLAN KEYNOTES

02.222 (E) CASEWORK TO REMAIN.
02.245 (E) GRAB BARS TO REMAIN.
02.246 (E) SOAP DISPENSER TO REMAIN.
02.247 (E) MIRROR TO REMAIN.
02.248 (E) TOILET PAPER DISPENSER TO REMAIN.
02.249 (E) PAPER TOWEL DISPENSER TO REMAIN.
02.250 (E) SEAT COVER DISPENSER TO REMAIN.
02.311 (E) WATER CLOSET TO REMAIN.
02.314 (E) SINK TO REMAIN.
06.403 PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 8 / A11.10
06.409 SOLID SURFACE COUNTERTOP, SEE DETAIL 6 / A11.10
06.411 CASEWORK END PANEL AND COUNTERTOP EDGING TO MATCH ADJACENT.
09.907 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
10.117 TOILET ROOM SIGNAGE. SEE DOOR SCHEDULE AND DETAIL 7 / A10.02
10.201 FLOOR MOUNTED, OVERHEAD BRACED, PAINTED STEEL TOILET PARTITION. SEE DETAIL 19 / A3.12
10.227 STAINLESS STEEL DOUBLE-ROLL TOILET TISSUE ROLL DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.230 STAINLESS STEEL RECESSED WASTE RECEPTACLE. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.232 STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.234 STAINLESS STEEL SEMI-RECESSED MOUNTED SANITARY NAPKIN AND TAMPON VENDOR. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.235 STAINLESS STEEL SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.236 STAINLESS STEEL SURFACE MOUNTED SEAT-COVER DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.237 GLASS MIRROR, 24" X 36", SEE DETAIL 2 / A3.12
10.245 HIGH-SPEED AIR DRYER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253 FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
10.254 GLASS MIRROR, 24" X 48", SEE DETAIL
22.406 SINK, S.P.D.
22.407 ACCESSIBLE WALL-MOUNTED LAVATORY, S.P.D. AND SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL 8 / A3.11

GRAPHIC KEY

WALL TYPES

- EXISTING FRAMED WALL TO REMAIN
- WALL TYPE, REFER TO SHEET A9.01 FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.
- STUD WALL
- 1 HR FIRE PARTITION
- EXISTING 1 HR FIRE PARTITION
- EXISTING CONCRETE WALL

FIXTURE TYPES:

- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
- F.E.C. F.E.C. — FIRE EXTINGUISHER CABINETS
- DRAWING MATCHLINE

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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — NO. C40340 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

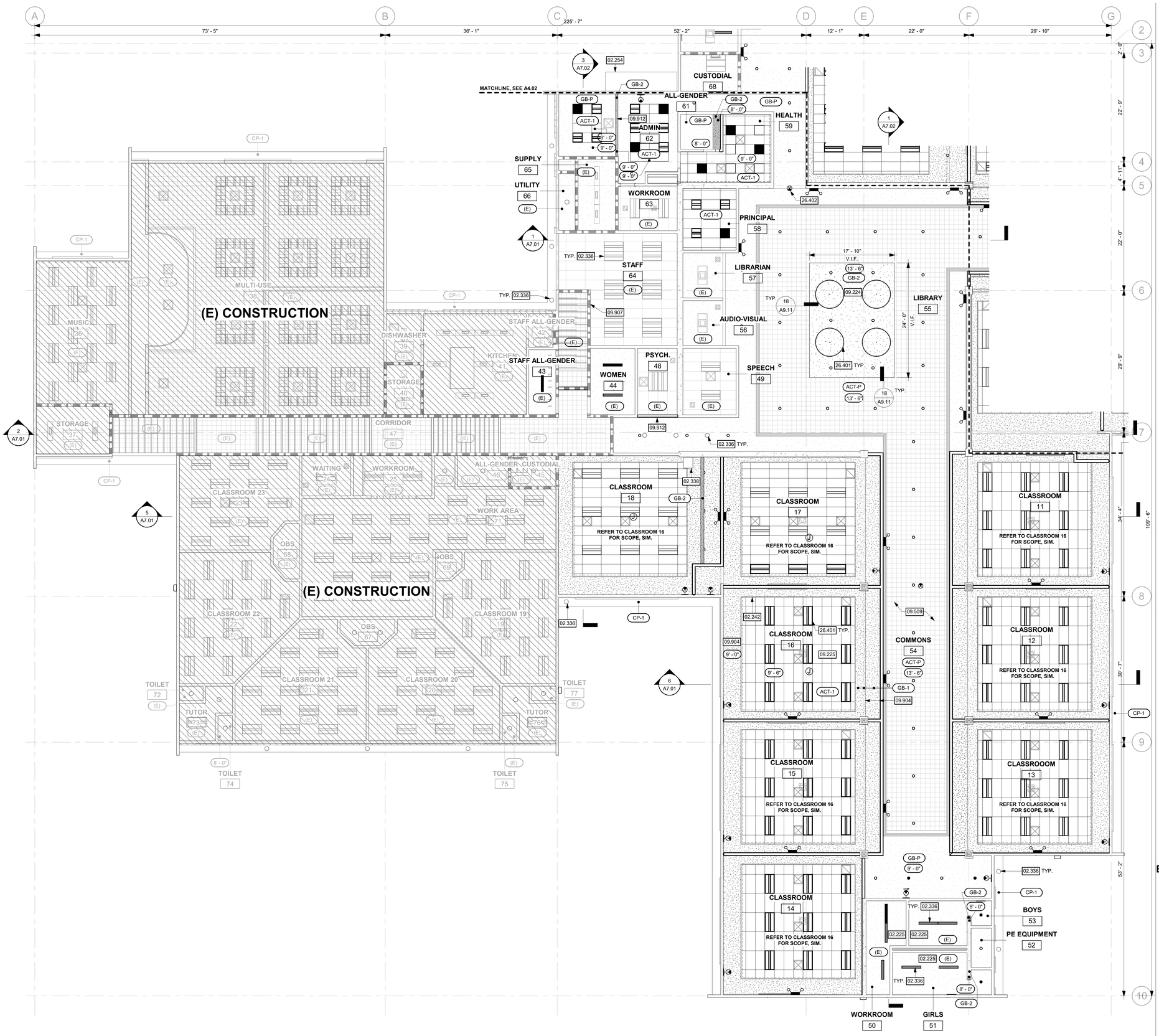
NEW ENLARGED RESTROOM PLANS, ELEVATIONS & DETAILS

DATE 09/05/2025

JOB # 2024022

SHEET # A3.12

4/27/2026 11:39:11 AM



1 BUILDING A - NEW RCP - PART A

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

GENERAL SHEET NOTES

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

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

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

D SPRINKLER HEADS, WHERE APPLY, SHALL BE PLACED IN THE CENTER OF SUSPENDED ACOUSTICAL CEILING TILES OR EVENLY SPACED AND CENTERED ON INDIVIDUAL SECTION OF EXPOSED ROOF STRUCTURE.

E PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

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

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

REFLECTED CEILING PLAN KEYNOTES

02.225 (E) GYPSUM BOARD CEILING
02.242 (E) WOOD TRIM TO REMAIN.
02.254 (E) EXTERIOR AWNING TO REMAIN.
02.336 (E) LIGHT FIXTURE, S.E.D.
02.338 (E) IDF TO REMAIN.
09.224 SUSPENDED GYPSUM CEILING BOARD, SEE DETAIL 19 / A9.11
09.225 2' X 4' ACT CEILING
09.509 SALVAGE AND REINSTALL KEYED CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS, DO NOT ALTER GRID OR SUSPENSION
09.904 REFINISH (E) GYP. BOARD CEILING TO REMOVE POPCORN FINISH.
09.907 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
09.912 PATCH AND PAINT CEILING AT REMOVED WALL.
26.401 LIGHT FIXTURE, S.E.D.
26.402 ILLUMINATED EXIT SIGN, S.E.D.

GRAPHIC KEY

(E) 2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING TO REMAIN

2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING
FIXED EDGE
SUSPENDED CEILING GRID
INSTALL CEILING GRID STARTING AT THE CENTER OF EACH ROOM AND WORK TO EXTERIOR WALLS, U.O.N.
DIRECTION OF MAIN RUNNER

(E) 12" x 12" SUSPENDED KEYED ACOUSTICAL PANEL CEILING TO REMAIN

(E) GYPSUM BOARD CEILING OR SOFFIT, REFINISHED AND PAINTED

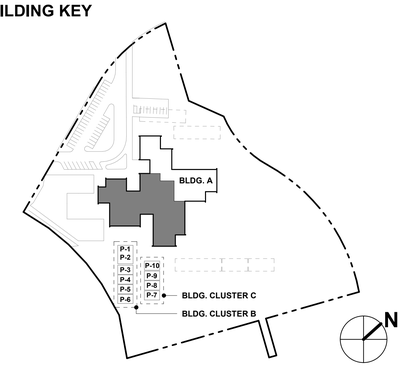
(E) GYPSUM BOARD CEILING OR SOFFIT TO REMAIN, PAINTED WHERE OCCURS

GYPSUM BOARD CEILING O/ (E) FRAMING, PAINTED

ELECTRICAL SYMBOLS
(E) LIGHTING, S.E.D.
LIGHTING, S.E.D.
WALL-MOUNTED EXIT SIGN, S.E.D.
CEILING-MOUNTED EXIT SIGN, S.E.D.

MECHANICAL SYMBOLS
(E) MECHANICAL, S.E.D.
MECHANICAL, S.E.D.

BUILDING KEY



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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 — NO. C40340 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
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SHEET

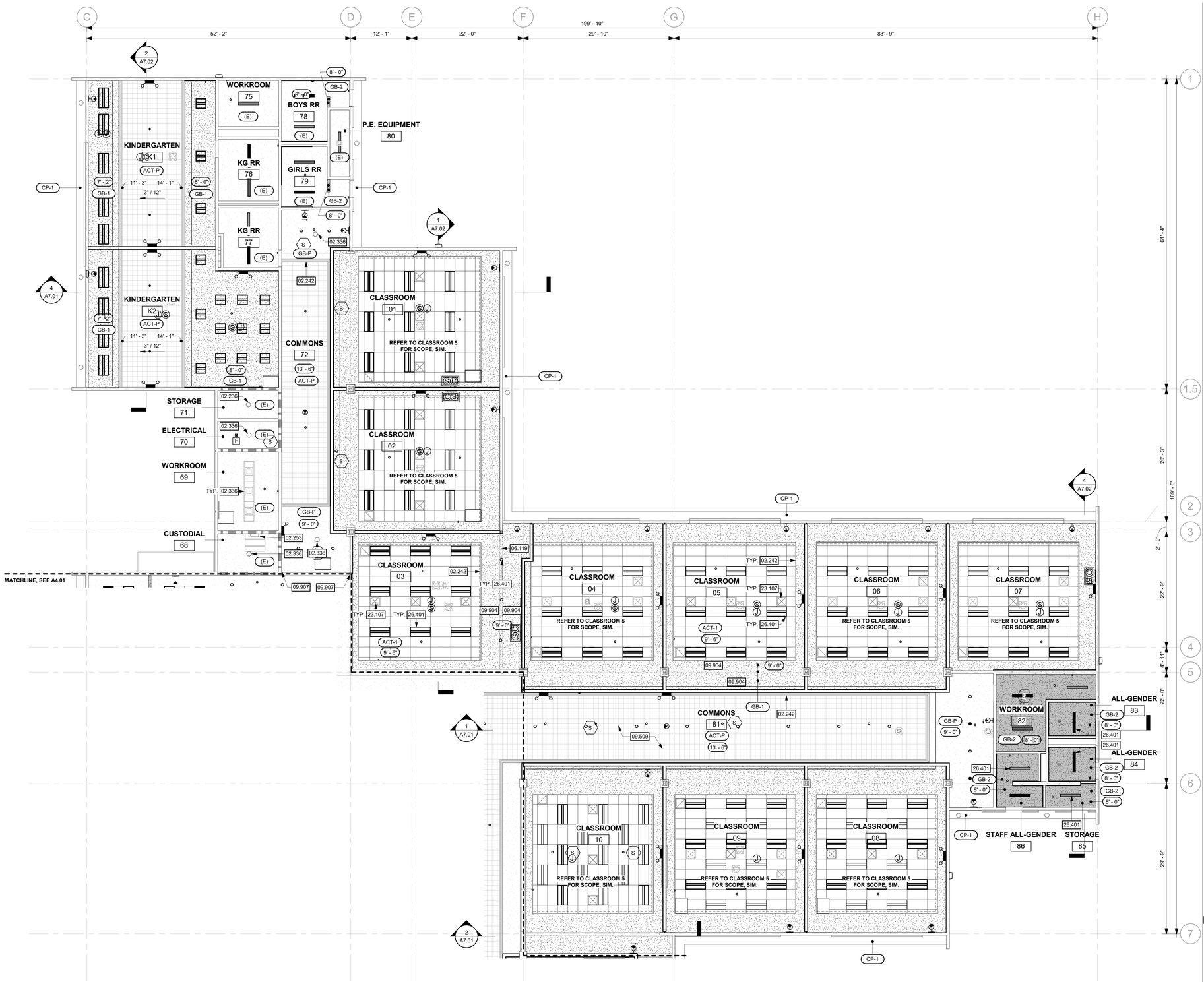
NEW REFLECTED CEILING PLAN - BUILDING A, PART A

DATE 09/05/2025

JOB # 2024022

SHEET # A4.01

4/27/2026 11:39:19 AM



1 BUILDING A - NEW RCP - PART B
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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

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

C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.

D SPRINKLER HEADS, WHERE APPLY, SHALL BE PLACED IN THE CENTER OF SUSPENDED ACOUSTICAL CEILING TILES OR EVENLY SPACED AND CENTERED ON INDIVIDUAL SECTION OF EXPOSED ROOF STRUCTURE.

E PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

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

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

REFLECTED CEILING PLAN KEYNOTES

02.236 (E) BUILT UP ROOFING
02.242 (E) WOOD TRIM TO REMAIN.
02.253 (E) ROOF ACCESS LADDER.
02.336 (E) LIGHT FIXTURE, S.E.D.
06.119 (E) WD. BEAM TO REMAIN.
09.509 SALVAGE AND REINSTALL KEYED CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS, DO NOT ALTER GRID OR SUSPENSION
09.904 REFINISH (E) GYP. BOARD CEILING TO REMOVE POPCORN FINISH.
09.907 PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL. INFILL CONTINUOUS WALL BASE.
23.107 MECHANICAL GRILLE, S.M.D.
26.401 LIGHT FIXTURE, S.E.D.

GRAPHIC KEY

(E) 2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING TO REMAIN

2'-0" x 4'-0" SUSPENDED ACOUSTICAL PANEL CEILING
FIXED EDGE
SUSPENDED CEILING GRID
INSTALL CEILING GRID STARTING AT THE CENTER OF EACH ROOM AND WORK TO EXTERIOR WALLS, U.O.N.
DIRECTION OF MAIN RUNNER

(E) 12" x 12" SUSPENDED KEYED ACOUSTICAL PANEL CEILING TO REMAIN

(E) GYPSUM BOARD CEILING OR SOFFIT, REFINISHED AND PAINTED

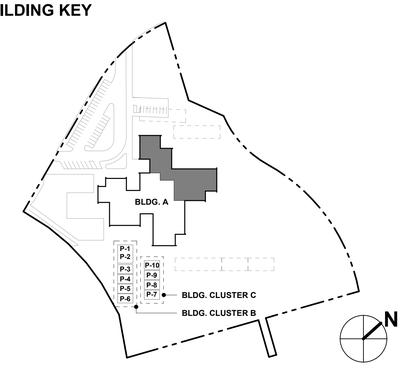
(E) GYPSUM BOARD CEILING OR SOFFIT TO REMAIN, PAINTED WHERE OCCURS

GYPSUM BOARD CEILING O/ (E) FRAMING, PAINTED

ELECTRICAL SYMBOLS
(E) LIGHTING, S.E.D.
LIGHTING, S.E.D.
WALL-MOUNTED EXIT SIGN, S.E.D.
CEILING-MOUNTED EXIT SIGN, S.E.D.

MECHANICAL SYMBOLS
(E) MECHANICAL, S.E.D.
MECHANICAL, S.E.D.

BUILDING KEY



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PROJECT
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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT — JOHN PITTENGER — NO. C44040 — REN. 07-31-27 — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

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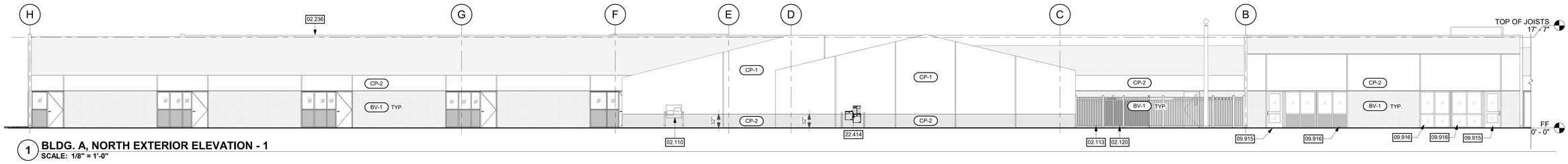
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90% CD	08/21/2025
DSA SUB	09/05/2025

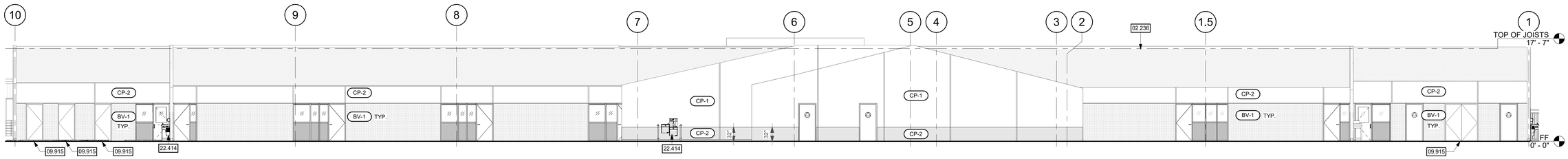
SHEET
NEW REFLECTED CEILING PLAN - BUILDING A, PART B

DATE 09/05/2025
JOB # 2024022
SHEET # A4.02

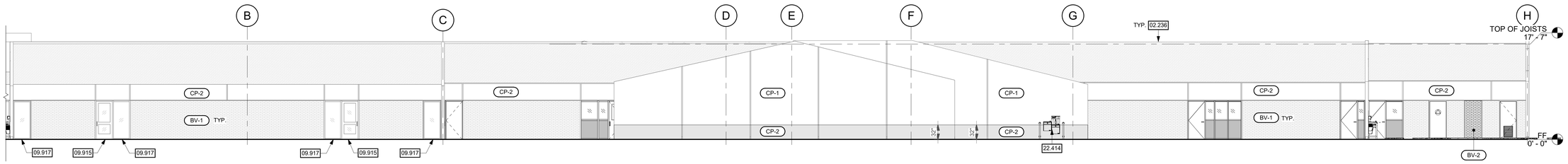
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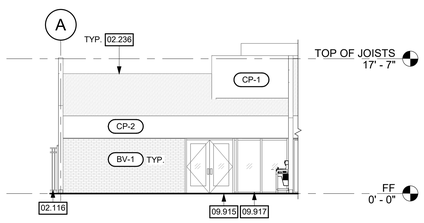
1 BLDG. A, NORTH EXTERIOR ELEVATION - 1
SCALE: 1/8" = 1'-0"



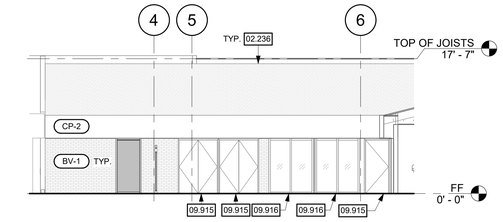
2 BLDG. A, EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



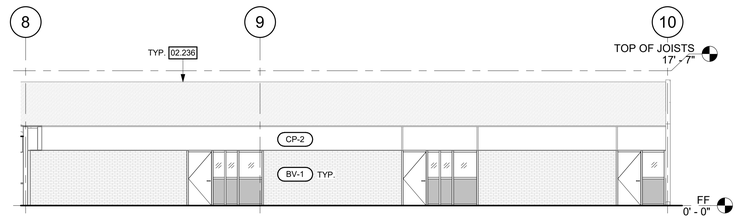
3 BLDG. A, SOUTH EXTERIOR ELEVATION, 1
SCALE: 1/8" = 1'-0"



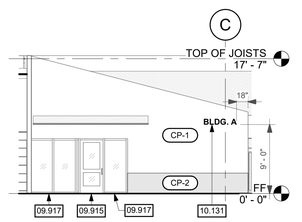
5 BLDG. A, SOUTH EXT. ELEVATION, 2
SCALE: 1/8" = 1'-0"



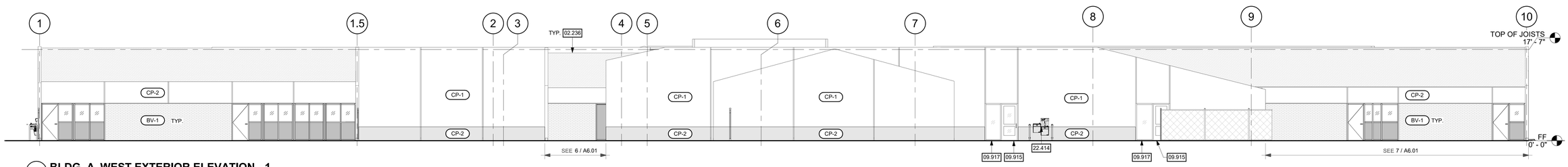
6 BLDG. A, WEST EXTERIOR ELEVATION - 2
SCALE: 1/8" = 1'-0"



7 BLDG. A, WEST EXTERIOR ELEVATION - 3
SCALE: 1/8" = 1'-0"



8 BLDG. A, NORTH EXTERIOR ELEVATION - 2
SCALE: 1/8" = 1'-0"



4 BLDG. A, WEST EXTERIOR ELEVATION - 1
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A COLORS NOTED ARE TO ESTABLISH THE DESIGN INTENT FOR MATERIAL HUE, TEXTURE, AND FINISH AND ARE NOT LIMITING SOURCE OF FINISH MATERIAL. THE ARCHITECT SHALL DETERMINE IF SUBMITTED FINISHES MEET THE DESIGN INTENT AND SHALL NOT BE LIMITED TO MANUFACTURER'S STOCK OR STANDARD COLORS.

B REFER TO A11.01 FINISH LEGEND FOR EXTERIOR FINISHES, MATERIALS AND COLORS.

C RWL, SCUPPER GUTTER, COPING AND FLASHING TO MATCH ADJACENT FINISH COLORS.

E SEE PLANS AND DOOR SCHEDULE FOR SIGNAGE.

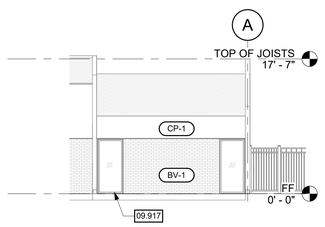
F ** EDIT / KEYNOTE? ** EXTERIOR WALL MOUNTED LIGHT FIXTURES TO BE __ ABOVE FINISH GRADE.

G THE CONTRACTOR SHALL PAINT ALL VISIBLE, EXPOSED COMPONENTS INCLUDING BUT NOT LIMITED TO WINDOW AND DOOR FRAMES, DOORS, WALLS, COLUMNS, BEAMS, FASCIAS, SOFFITS, FLUES, PIPES, CONDUIT, RAIN WATER LEADERS, HANDRAILS, GUTTERS, FENCES, FLASHING, EQUIPMENT, LOUVERS, VENTS, FIXTURES, BENCHES, ETC. U.O.N.

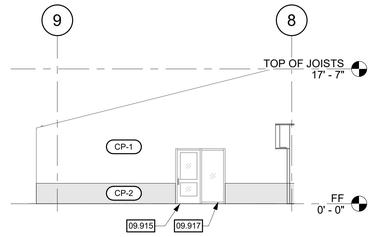
H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

EXTERIOR ELEVATION KEYNOTES

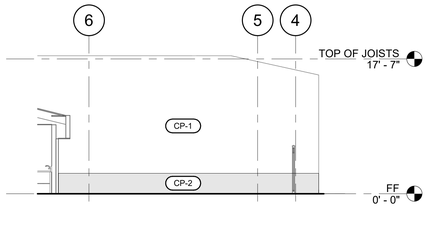
02.110 (E) D.A. HI-LO DRINKING FOUNTAIN
02.113 (E) ORNAMENTAL FENCE
02.116 V.I.F. (E) ORNAMENTAL 35" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05
02.120 V.I.F. (E) ORNAMENTAL 50.5" WIDE GATE WITH PANIC HARDWARE, SEE DETAIL 8 / A1.05
02.236 (E) BUILT UP ROOFING
09.915 PREP AND PAINT (E) DOOR AND FRAME, BOTH SIDES.
09.916 PREP AND PAINT (E) STOREFRONT FRAMING AND SPANDREL PANELS, BOTH SIDES.
09.917 PREP AND PAINT (E) STOREFRONT FRAMING (VISION GLAZING ONLY).
10.131 PAINTED MURAL SIGNAGE, 9"H TO READ "BLDG. A", CONFIRM LETTERING WITH OWNER PRIOR TO INSTALLATION.
22.414 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 4 / A3.12



11 BLDG. A, NORTH EXTERIOR ELEVATION - 3
SCALE: 1/8" = 1'-0"



10 BLDG. A, WEST EXTERIOR ELEVATION - 5
SCALE: 1/8" = 1'-0"



9 BLDG. A, WEST EXTERIOR ELEVATION - 4
SCALE: 1/8" = 1'-0"

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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — NO. C26580 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

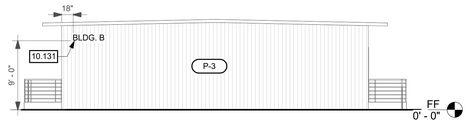
EXTERIOR ELEVATIONS, BLDG A.

DATE 09/05/2025

JOB # 2024022

SHEET # A6.01

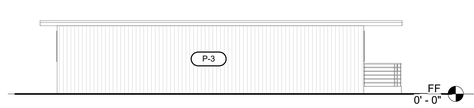
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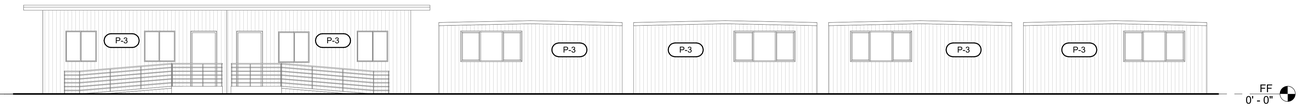
1 BLDG. CLUSTER B, NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



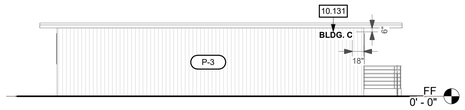
2 BLDG. CLUSTER B, EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



3 BLDG. CLUSTER B - SOUTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



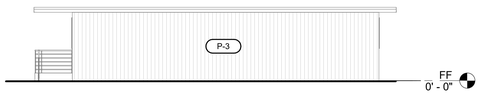
4 BLDG. CLUSTER B, WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



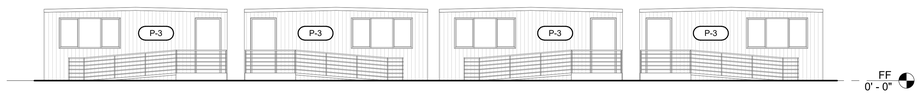
5 BLDG. CLUSTER C, NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



6 BLDG. CLUSTER C, EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



7 BLDG. CLUSTER C, SOUTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



8 BLDG. CLUSTER C, WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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EXTERIOR ELEVATION KEYNOTES

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH D. PETTY — NO. C40900 — EXP. 08-31-2027 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

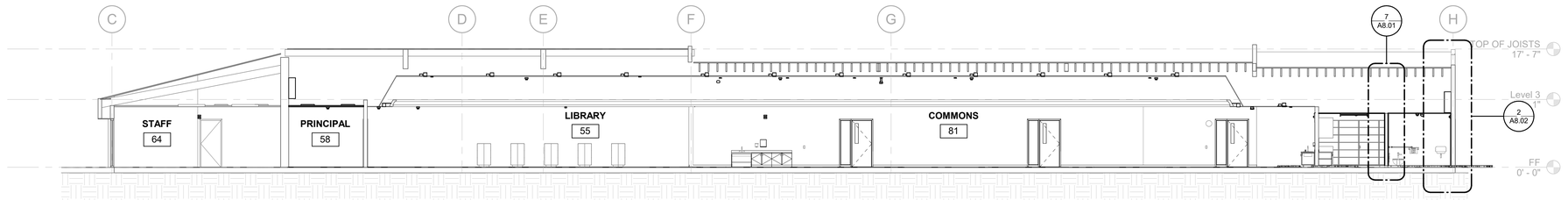
EXTERIOR ELEVATIONS, BLDG. CLUSTERS B & C

DATE 09/05/2025

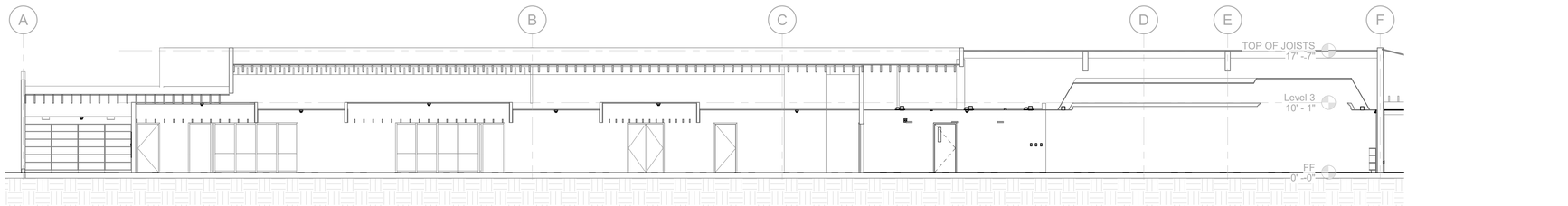
JOB # 2024022

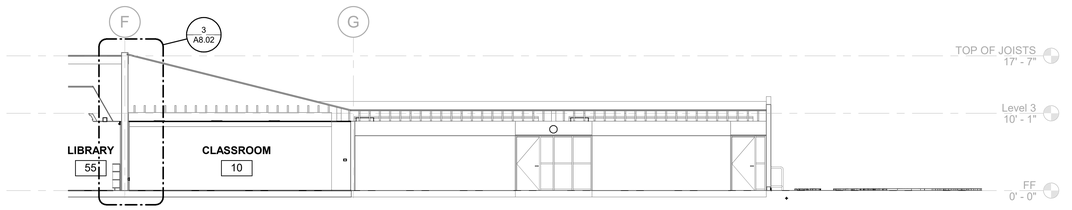
SHEET # A6.02

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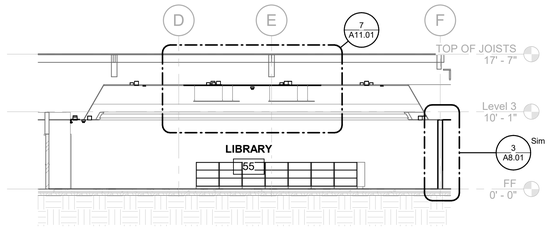


1 BUILDING SECTION BTWN GRIDLINES 5 & 6
SCALE: 1/8" = 1'-0"

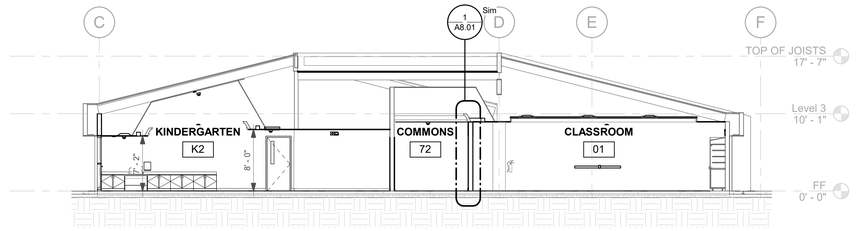




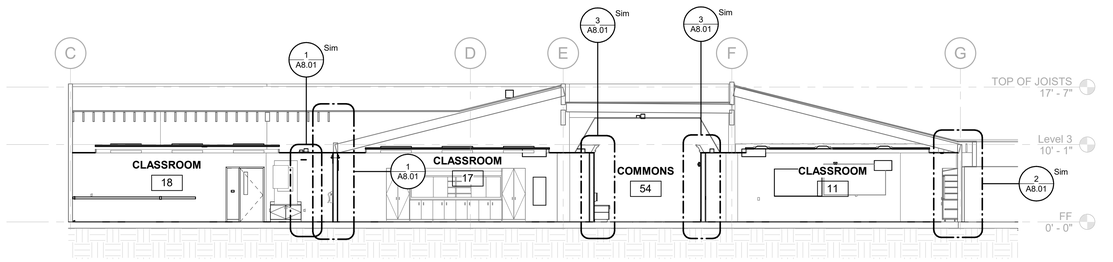
2 BUILDING SECTION BTWN GRIDLINES 7 & 8
SCALE: 1/8" = 1'-0"



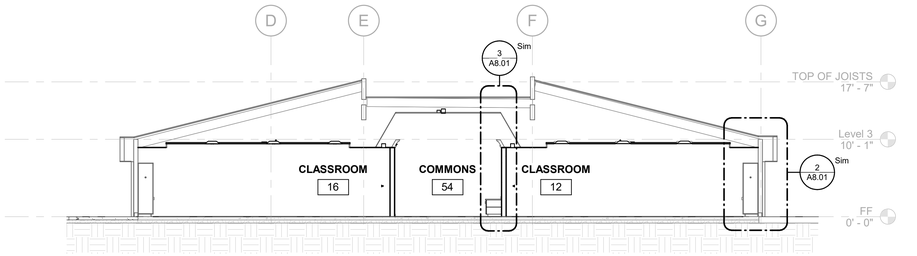
3 DEMO LIBRARY - BUILDING SECTION
SCALE: 1/8" = 1'-0"



4 BUILDING SECTION BTWN GRIDLINES 1 & 1.5
SCALE: 1/8" = 1'-0"



5 BUILDING SECTION BTWN GRIDLINES 7 & 8 - 2
SCALE: 1/8" = 1'-0"



6 BUILDING SECTION BTWN GRIDLINES 8 & 9
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 REFER TO WALL TYPE PLANS AND WALL TYPE DETAILS FOR IDENTIFICATION OF ALL WALL TYPES.

C PROVIDE CONTINUOUS FIRESTOP SEALANT AT ALL STRUCTURAL PENETRATIONS THROUGH FIRE-RATED WALLS.

KEYNOTES

- / ---

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

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — NO. C43530 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
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90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

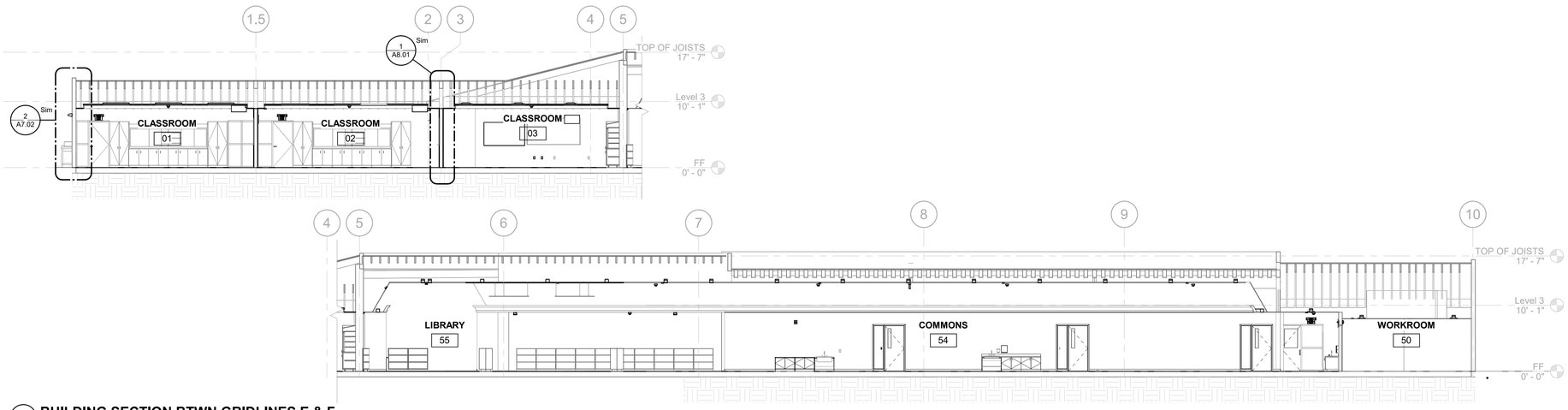
BUILDING SECTIONS - EAST-WEST

DATE 09/05/2025

JOB # 2024022

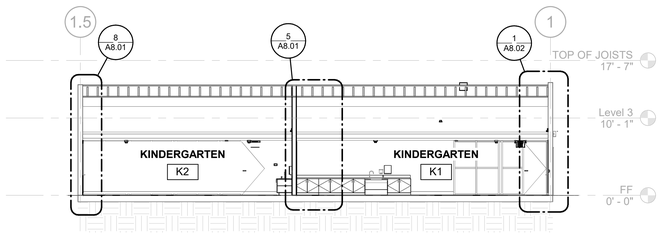
SHEET # A7.01

4/27/2026 11:39:51 AM



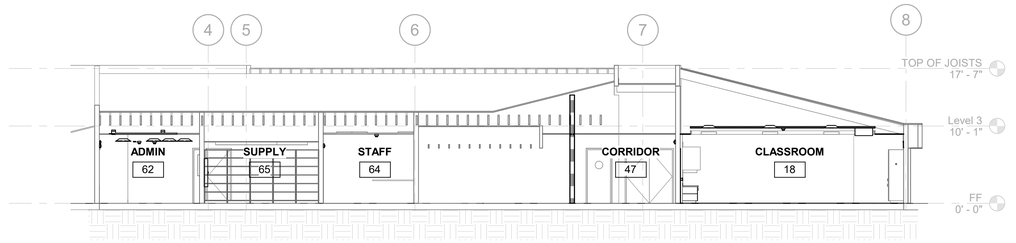
1 BUILDING SECTION BTWN GRIDLINES E & F

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



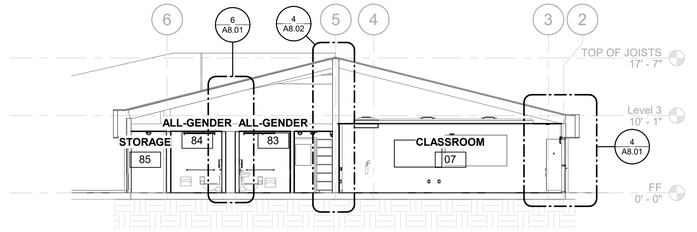
2 BUILDING SECTION BTWN GRIDLINES C & D

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



3 BUILDING SECTION BTWN GRIDLINES C & D - 2

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



4 BUILDING SECTION BTWN GRIDLINES G & H

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

GENERAL SHEET NOTES

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KEYNOTES

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN C. PITTENGER — No. C44940 — REN. 07/31/27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
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DSA SUB	09/05/2025

SHEET

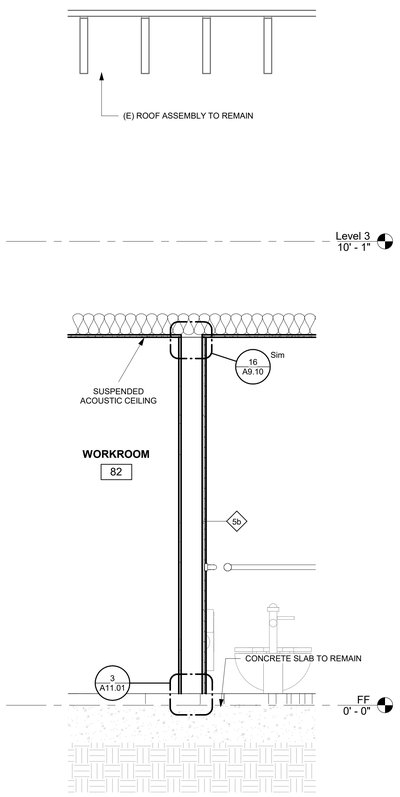
BUILDING SECTIONS - NORTH-SOUTH

DATE 09/05/2025

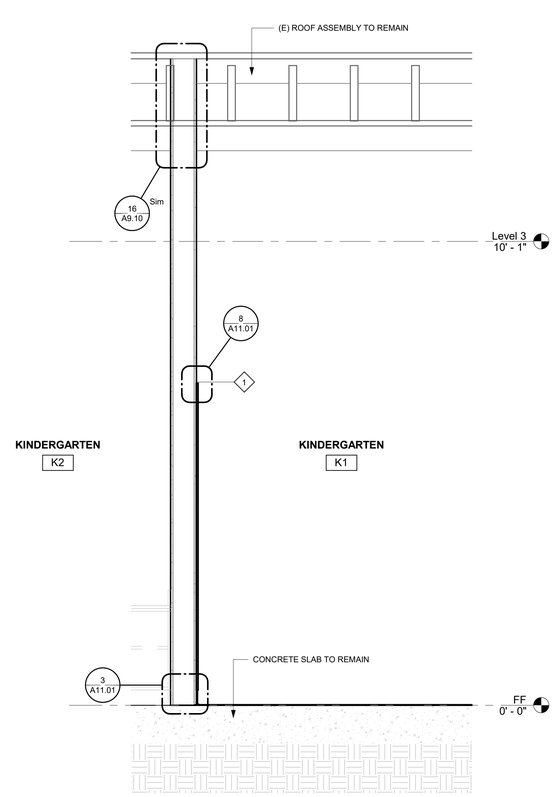
JOB # 2024022

SHEET # A7.02

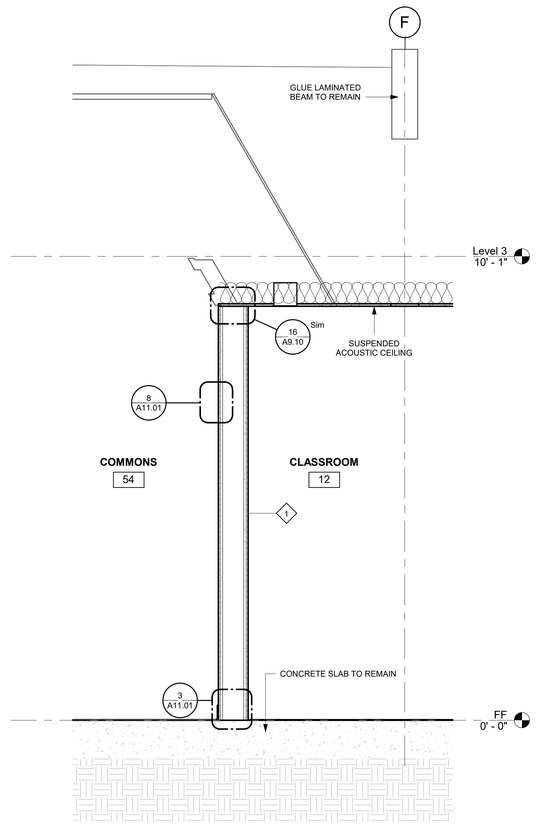
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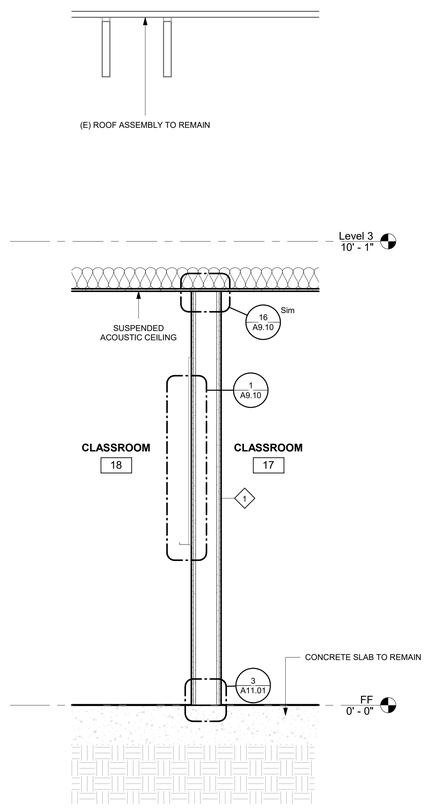
7 WALL SECTION GRIDLINES 5 & 6 & G & H
SCALE: 3/4" = 1'-0"



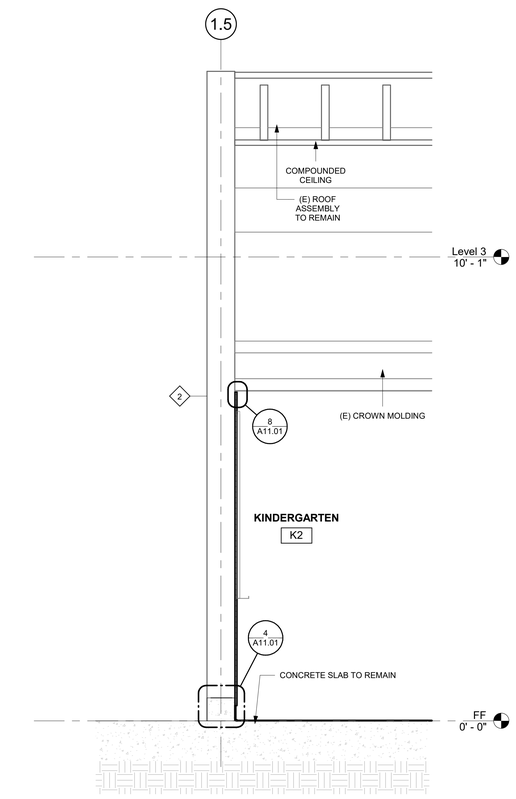
5 WALL SECTION GRIDLINES C & D & 1.5-1
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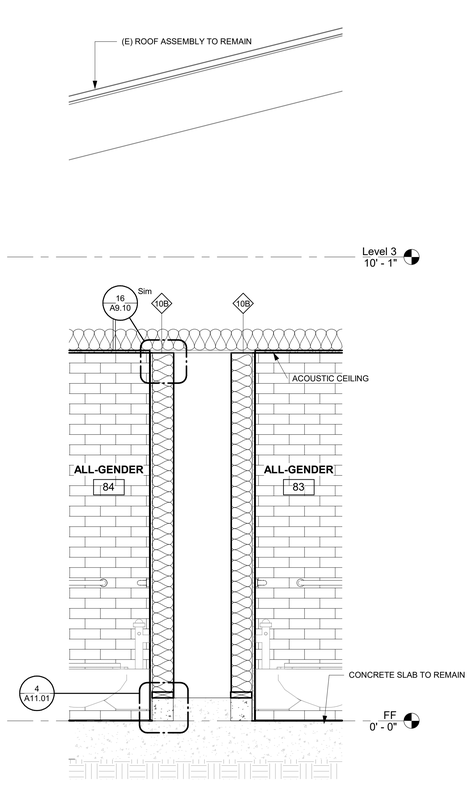
3 Section 8
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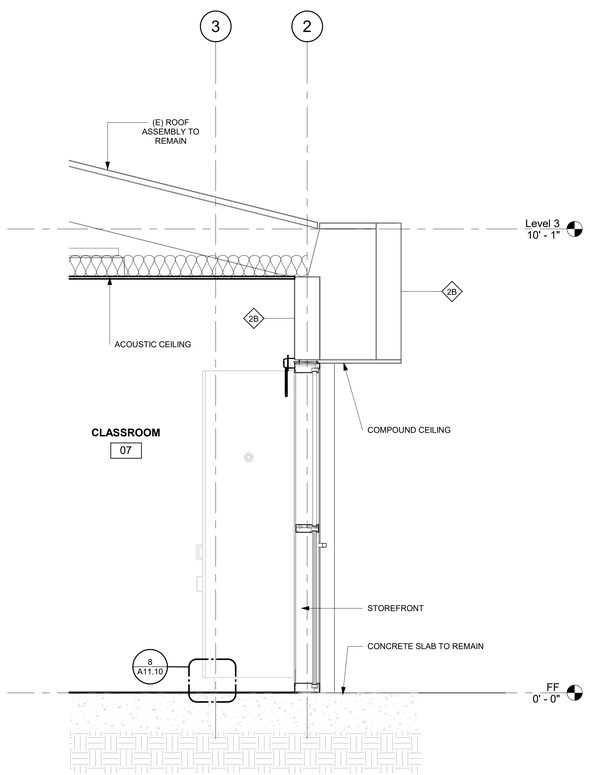
1 Section 9
SCALE: 3/4" = 1'-0"



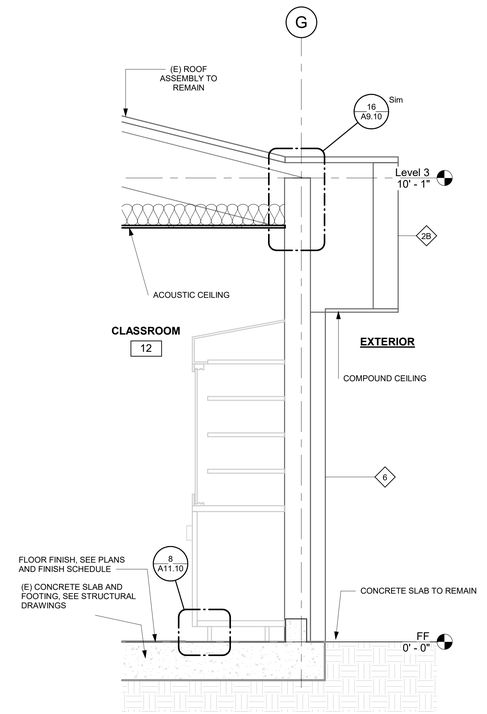
8 WALL SECTION GRIDLINES C & D & 1.5
SCALE: 3/4" = 1'-0"



6 WALL SECTION GRIDLINES G & H & 5-6
SCALE: 3/4" = 1'-0"



4 WALL SECTION GRIDLINES G & H & 2
SCALE: 3/4" = 1'-0"



2 Section 1
SCALE: 3/4" = 1'-0"

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PROJECT

BALDWIN
ELEMENTARY SCHOOL
MODERNIZATION

OAK GROVE SCHOOL
DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT
JOHN C. BITTERMAN
No. C44940
REN. 07/31/27
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date
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MILESTONES

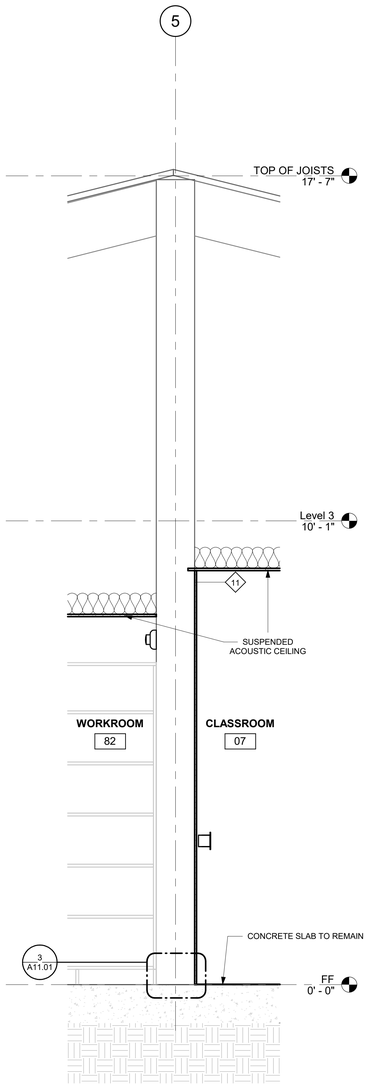
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DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

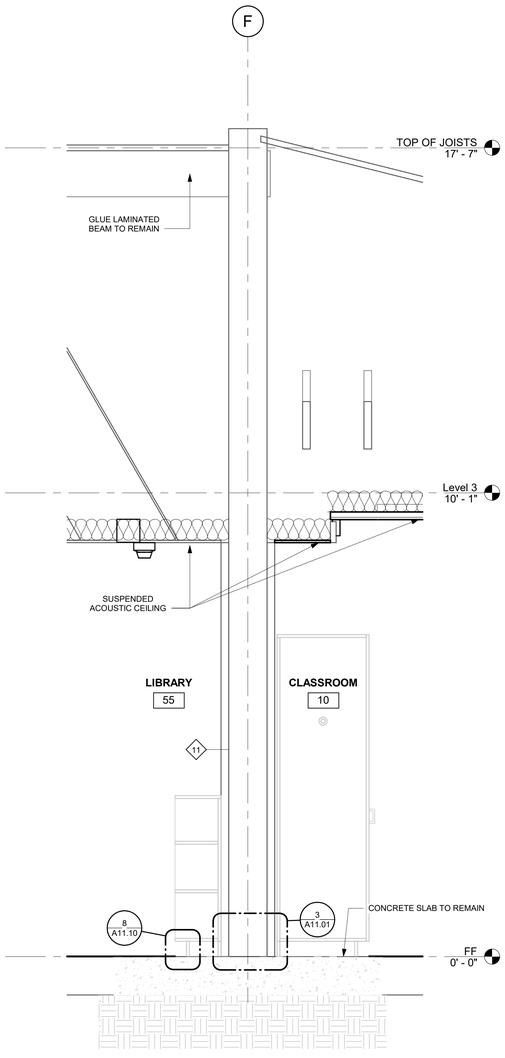
WALL SECTIONS

DATE	09/05/2025
JOB #	2024022
SHEET #	A8.01

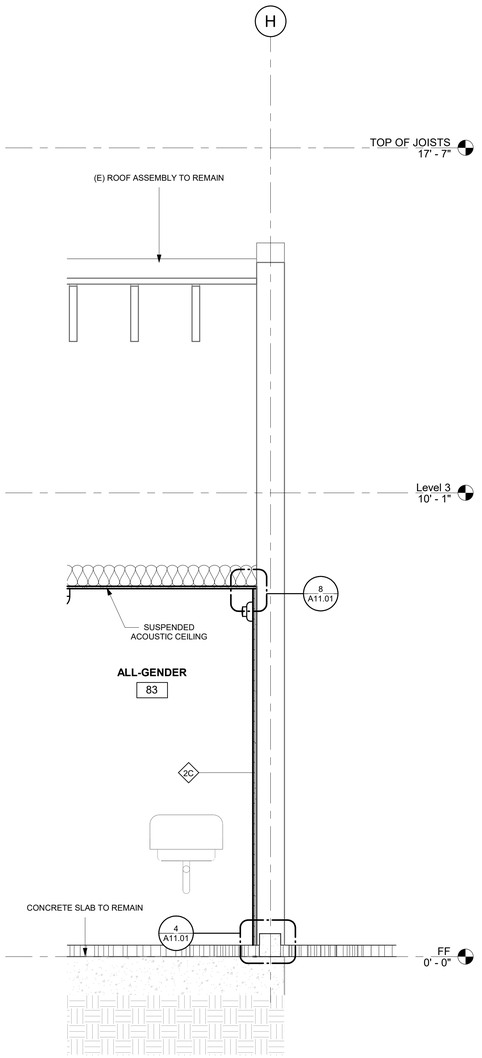
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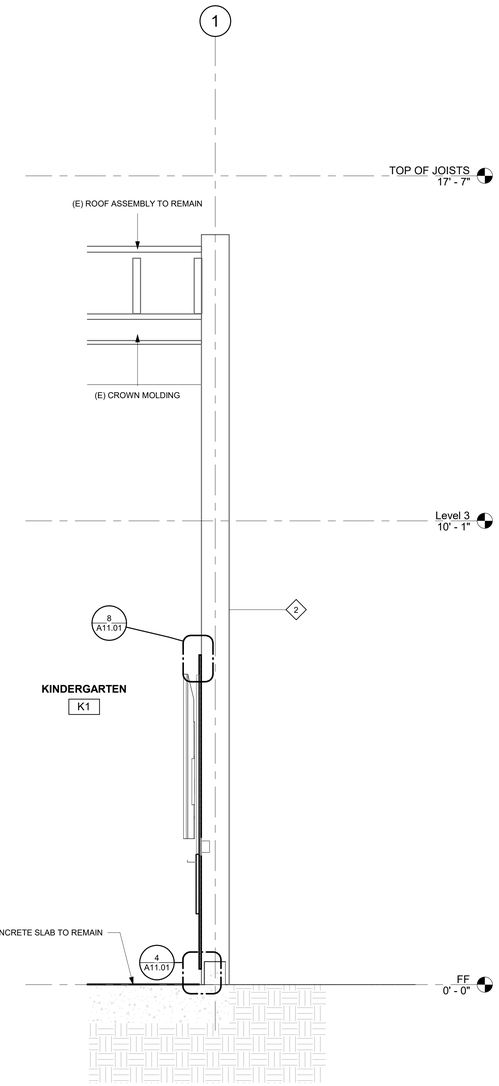
4 WALL SECTION GRIDLINES G & H & 5
SCALE: 3/4" = 1'-0"



3 WALL SECTION GRIDLINES 7 & 8 & F
SCALE: 3/4" = 1'-0"



2 WALL SECTION GRIDLINES 5 & 6 & H
SCALE: 3/4" = 1'-0"



1 WALL SECTION GRIDLINES C & D & 1
SCALE: 3/4" = 1'-0"

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SHEET

WALL SECTIONS

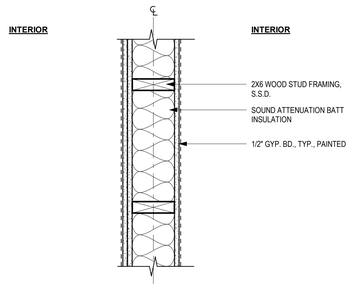
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JOB # 2024022

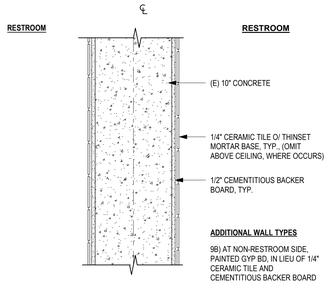
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A8.02

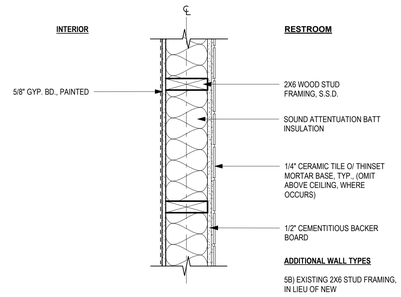
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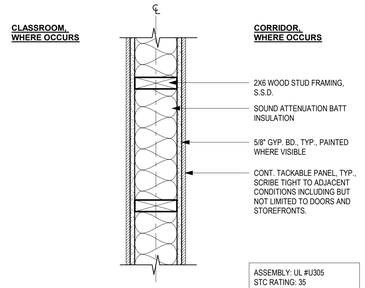
13 WALL TYPE 13
SCALE: 1 1/2" = 1'-0"



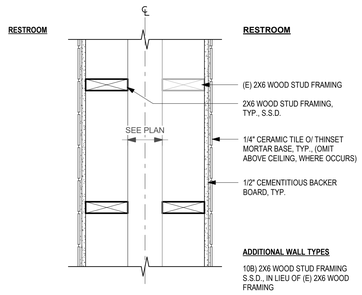
9 WALL TYPE 9
SCALE: 1 1/2" = 1'-0"



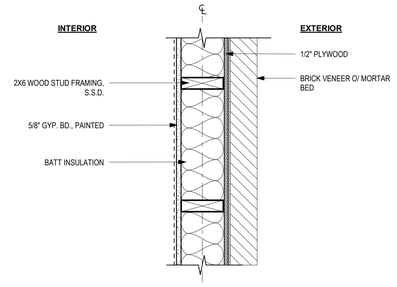
5 WALL TYPE 5
SCALE: 1 1/2" = 1'-0"



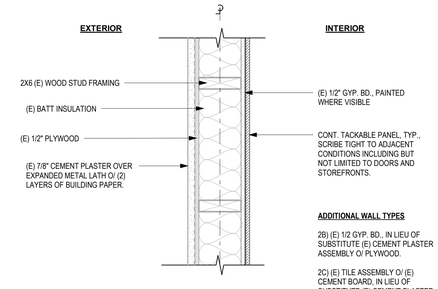
1 WALL TYPE 1
SCALE: 1 1/2" = 1'-0"



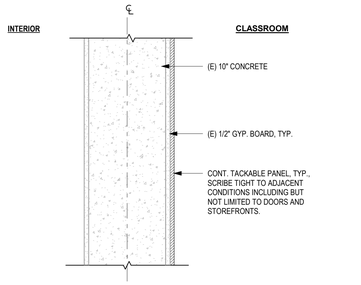
10 WALL TYPE 10
SCALE: 1 1/2" = 1'-0"



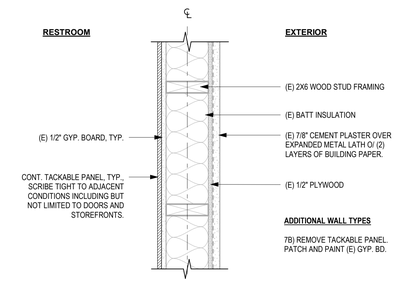
6 WALL TYPE 6
SCALE: 1 1/2" = 1'-0"



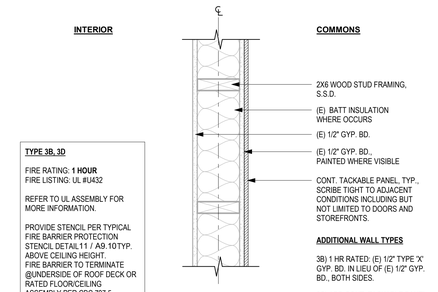
2 WALL TYPE 2
SCALE: 1 1/2" = 1'-0"



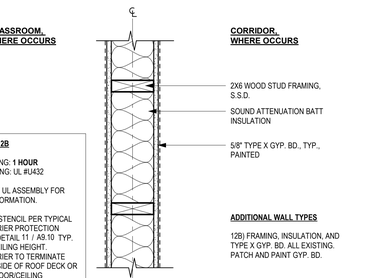
11 WALL TYPE 11
SCALE: 1 1/2" = 1'-0"



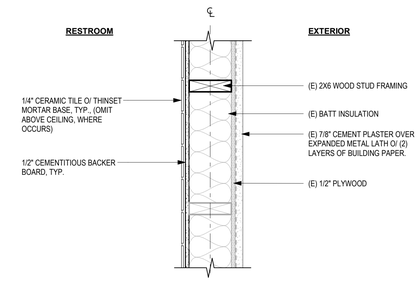
7 WALL TYPE 7
SCALE: 1 1/2" = 1'-0"



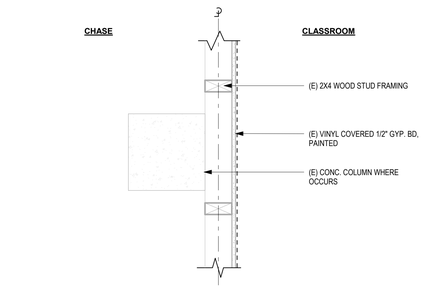
3 WALL TYPE 3
SCALE: 1 1/2" = 1'-0"



12 WALL TYPE 12
SCALE: 1 1/2" = 1'-0"



8 WALL TYPE 8
SCALE: 1 1/2" = 1'-0"



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

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LICENSED ARCHITECT JOHN C. PITTENGER NO. C44940 REN. 07/31/27 STATE OF CALIFORNIA

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DSA FILE NUMBER 43-41

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SHEET

WALL TYPES

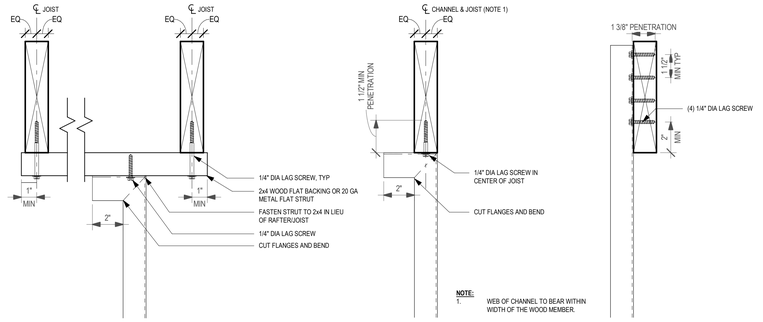
DATE 09/05/2025

JOB # 2024022

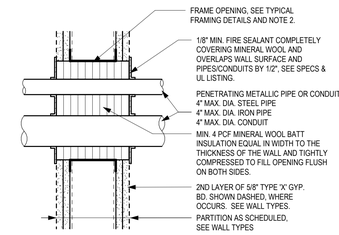
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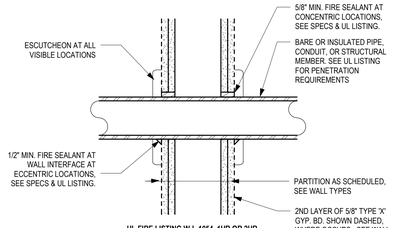
9 CHANNEL STRUT @ SAWN TIMBER
SCALE: 3" = 1'-0"



UL FIRE LISTING W-L-1402, 1HR. OR 2HR.

NOTE:
1. SEE UL LISTING FOR ADDITIONAL INFORMATION.
2. MAXIMUM AREA OF OPENING = 342 SQ. IN., WITH A MAXIMUM DIMENSION OF 22 3/4".
3. PIPE / CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY.
4. ANNULAR SPACE BETWEEN PIPES OR CONDUITS SHALL BE 1/4" MIN. TO 5 1/2" MAX.
5. ANNULAR SPACE BETWEEN PIPES OR CONDUITS AND THE PERIPHERY OF THE OPENING SHALL BE MIN. 0" TO MAX. 1 3/4"

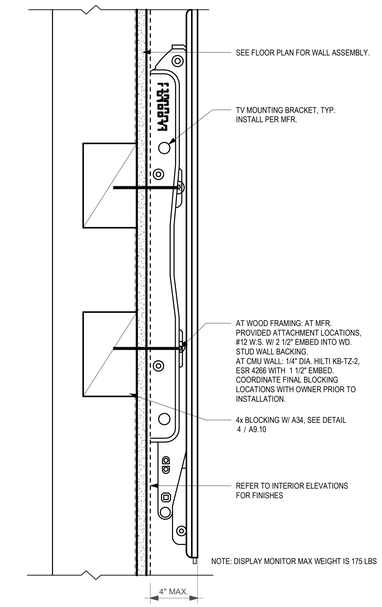
10 TYP. MULTIPLE PIPE_CONDUIT PEN. @ RATED WALL
SCALE: 1 1/2" = 1'-0"



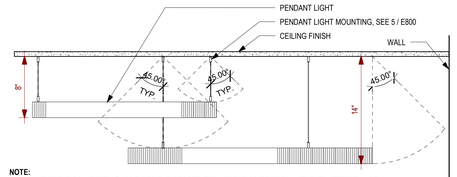
UL FIRE LISTING W-L-1054, 1HR OR 2HR

NOTE: APPLIES TO
MAX. 30" DIA. STEEL PIPE
MAX. 30" DIA. CAST OR DUCTILE IRON PIPE
MAX. 4" DIA. STEEL ELECTRICAL METALLIC TUBING
MAX. 6" DIA. STEEL CONDUIT
MAX. 6" DIA. TYPE 'L' (OR HEAVIER) COPPER TUBING
MAX. 6" DIA. COPPER PIPE

6 TYP. PIPE-CONDUIT PENETRATION @ RATED WALL
SCALE: 1 1/2" = 1'-0"



1 DISPLAY MONITOR BRACKET MOUNTING
SCALE: 3" = 1'-0"



NOTE:
1. SUSPENDED MOUNTING ALLOW FOR 45 DEGREE SWAY IN EACH DIRECTION WITHOUT INTERFERANCE

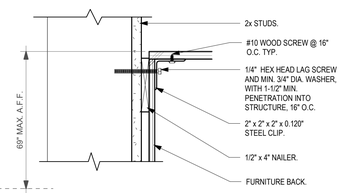
2 PENDANT LIGHT MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"

FIRE AND/OR SMOKE BARRIER PROTECT ALL OPENINGS

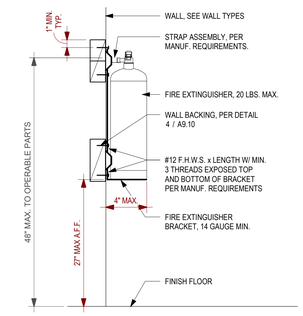
STENCIL AND PAINT 3" TALL WORDING WITH 3/8" STROKE OF CONTRASTING COLOR

NOTE: PER CBC SECTION 703.7
1. WHERE APPLIES - ACCESSIBLE CONCEALED FLOOR, FLOOR- CEILING OR ATTIC SPACES ON ALL RATED WALLS.
2. PROVIDE EVERY 30' - 0" MAX. AND WITHIN 15' - 0 " OF END OF WALL.

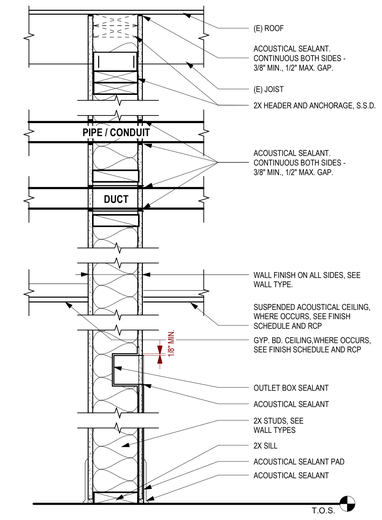
11 TYPICAL FIRE BARRIER PROTECTION STENCIL
SCALE: 1" = 1'-0"



7 FURNITURE ANCHORAGE DETAILS
SCALE: 3" = 1'-0"

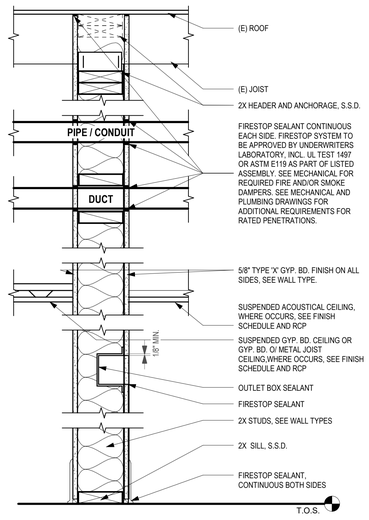


3 HOOK MOUNTED FIRE EXTINGUISHER
SCALE: 1 1/2" = 1'-0"



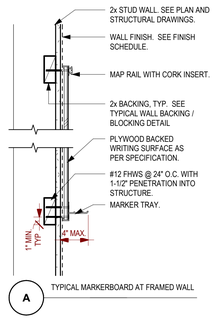
NOTES:
1. FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.
2. SEE DETAIL 12 / A9.10 FOR PENETRATIONS AT RATED PARTITIONS.

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



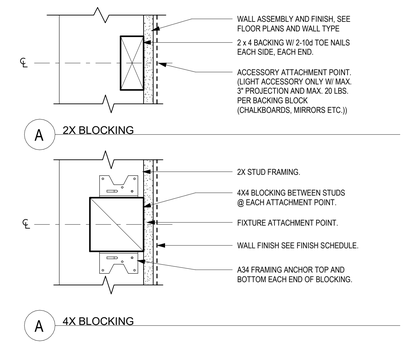
NOTES:
1. FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND FIRE STOPPING SIMILAR TO DETAIL AT DUCT.
2. SEE DETAIL 16 / A9.10 FOR PENETRATIONS AT NON RATED PARTITIONS.

12 TYPICAL PENETRATION @ FIRE RATED WALL
SCALE: 1 1/2" = 1'-0"



A TYPICAL MARKERBOARD AT FRAMED WALL

8 MARKER BOARD ANCHORAGE
SCALE: 1 1/2" = 1'-0"



A 2X BLOCKING

A 4X BLOCKING

4 TYP. WOOD WALL BACKING/BLOCKING
SCALE: 3" = 1'-0"

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SHEET

INTERIOR DETAILS

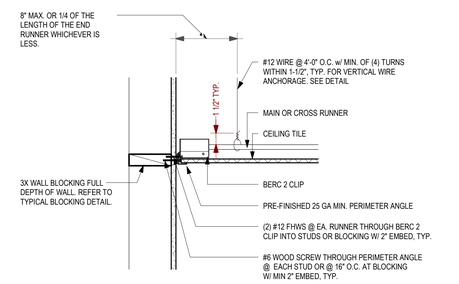
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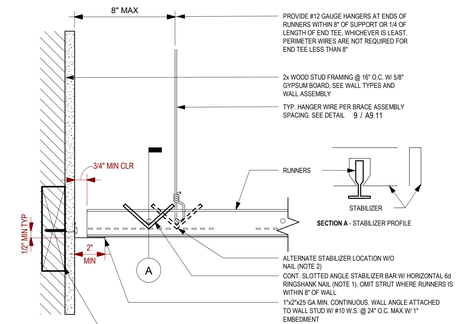
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17 SUSP. CEILING CONNECTION - BERC 2
SCALE: 1 1/2" = 1'-0"

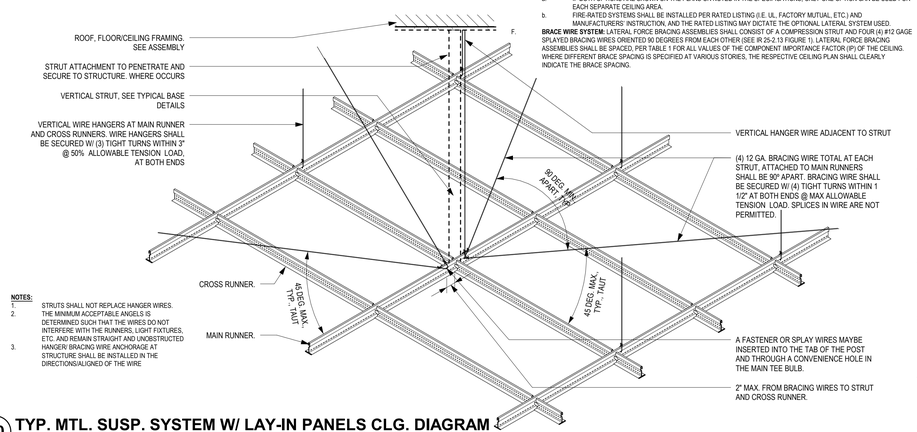


13 EMT STRUT @ SAWN TIMBER
SCALE: 3" = 1'-0"



NOTES:
1. WEB OF STRUT TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. ANGLE ORIENTATION PERPENDICULAR TO WOOD JOIST IS OPTIONAL.

9 TYP. 8'-0" X 12'-0" CLG. PLN. BRACE ASSY. SPACING
SCALE: 1/8" = 1'-0"

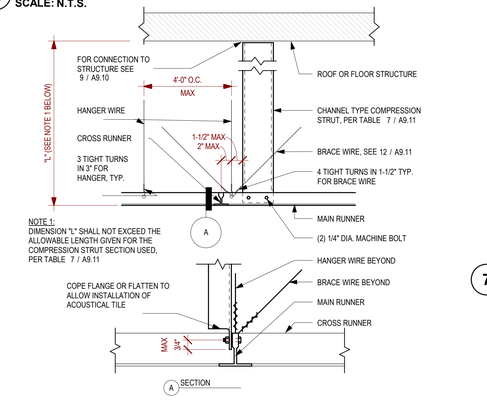


NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLES IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED HANGER/ BRACING WIRE ANCHORAGE AT STRUCTURE SHALL BE INSTALLED IN THE DIRECTIONS/ALIGNED OF THE WIRE

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION - ONE LAYER

1. **MATERIALS:** MATERIALS ARE TO COMPLY WITH CBC SECTION 2508 AND APPLICABLE ASTM STANDARDS. GYPSUM WALLBOARD IS EITHER 1/2 INCH OR 5/8 INCH IN THICKNESS. COLD-FORMED STEEL SECTIONS SPECIFIED IN THIS IR ARE IDENTIFIED BY A PRODUCT DESIGNATOR WHICH HAS BEEN STANDARDIZED BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI) IN COLLABORATION WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
2. **DESIGN:** THE PRESCRIPTIVE REQUIREMENTS OF THIS IR SHALL BE TAKEN AS THE MINIMUM REQUIREMENTS AND APPLY TO A CEILING THAT IS NOT ACCESSIBLE, HAS A SINGLE LAYER OF GYPSUM BOARD NOT EXCEEDING 5/8" THICK, AND HAS A TOTAL CEILING WEIGHT NOT TO EXCEED FOUR (4) POUNDS PER SQUARE FOOT (PSF). A CEILING THAT IS REQUIRED BY CCR TITLE 24 TO BE ACCESSIBLE, OR OTHERWISE DOES NOT MEET THESE LIMITATIONS, SHALL BE DESIGNED TO MEET THE APPLICABLE REQUIREMENTS OF CBC SECTIONS 1607A AND 2508.1, AND ASCE 7-10, SECTION 13.3.1.
3. **BASIS OF CONSTRUCTION:**
   A. **GENERAL:** GYPSUM BOARD CEILINGS SHALL NOT SUPPORT BUILDING COMPONENTS OTHER THAN AIR CONDITIONING/HEATING GRILLS OR LIGHT FIXTURES. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHALL BE APPLIED TO CROSS-FURRING.
   B. **VERTICAL SUPPORT SYSTEM:** THERE ARE MANY POSSIBLE VARIATIONS OF MAIN RUNNER SIZES, SPACINGS, AND SPANS LISTED IN ASTM C754-04, TABLE 7. ALL OF THE COMBINATIONS ARE ACCEPTABLE, PROVIDED THE MAIN RUNNER SPACING DOES NOT EXCEED 4'-0" AND THE CEILING AREA SUPPORTED BY A HANGER WIRE DOES NOT EXCEED 16 SQUARE FEET.
   C. **MAIN RUNNER SPACING AND SPAN:** THE MAIN RUNNER MOST FREQUENTLY USED IS A 1-1/2 INCH COLD ROLLED CHANNEL DESIGNATED 1SG0S9-54 (1-1/2 INCH COLD ROLLED CHANNELS WEIGHING 0.414 LBS/FT) SPACED NO MORE THAN 4'-0" O.C. WITH A HANGER WIRE SPACING NOT TO EXCEED 4'-0" O.C. AND NO MORE THAN 6" FROM EACH END OF THE MAIN RUNNER.
   D. **VERTICAL HANGER WIRES:** CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #9 GAGE (0.148" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI
   E. **CROSS-FURRING:** 7/8 INCH GALVANIZED STEEL HAT SECTIONS, DESIGNATED 087F125-18, AT 24 INCHES O.C. MAXIMUM
4. **CONNECTING HANGER WIRES, STEEL FRAMING AND FURRING:**
   A. MAIN RUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF 12 INCHES LONG.
   B. CROSS FURRING SHALL BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF EIGHT (8) INCHES LONG.
5. **INSTALLATION AND ANCHORAGE OF HANGER AND BRACING WIRES:**
   A. WHEN DRILLED-IN CONCRETE ANCHORS OR POWER ACTUATED FASTENERS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS IN TENSION. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY POWER ACTUATED FASTENER OR DRILLED-IN ANCHOR FAILS, SEE 2013 CBC SECTION 1913A.7.1 OR 1913.2.11.1*
      a. NOTE: DRILLED-IN ANCHORS OR POWER ACTUATED FASTENERS EMBEDEMENT DEPTH SHALL BE LIMITED IN PRESTRESSED CONCRETE TO NOT IMPINGE TENSIONED REINFORCEMENT OR SPECIAL PROCEDURES SHALL BE DEVELOPED TO LOCATE AND CLEAR TENSIONED REINFORCEMENT.
   B. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
   C. **LATERAL SYSTEM:** A GYPSUM BOARD CEILING GREATER THAN 144 SQUARE FEET IN AREA SHALL BE DESIGNED TO RESIST ITS OWN SEISMIC LOADS, PER SECTION 2 ABOVE, AND SHALL NOT BE PERMITTED TO BE USED TO RESIST PRIMARY STRUCTURAL LOADS OR OTHER LOADS. THERE ARE TWO OPTIONAL LATERAL SYSTEMS FOR THIS PURPOSE:
      a. THE BRACE WIRE SYSTEM, PER SECTION 5.1.
      b. THE DIAPHRAGM SYSTEM, PER SECTION 5.2.
   D. EITHER OR BOTH OPTIONS MAY BE SHOWN ON PLANS OR NOTED IN THE SPECIFICATIONS.
   E. **NOTES:**
      a. IF BOTH OPTIONS ARE SHOWN ON THE PLANS OR NOTED IN THE SPECIFICATIONS, ONLY ONE OPTION CAN BE USED FOR EACH SEPARATE CEILING AREA.
      b. FIRE-RATED SYSTEMS SHALL BE INSTALLED PER RATED LISTING (I.E. UL, FACTORY MUTUAL, ETC.) AND MANUFACTURERS' INSTRUCTION, AND THE RATED LISTING MAY DICTATE THE OPTIONAL LATERAL SYSTEM USED.
   F. **BRACE WIRE SYSTEM:** LATERAL FORCE BRACING ASSEMBLIES SHALL CONSIST OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER (SEE IR 25-2.13 FIGURE 1). LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED, PER TABLE 1 FOR ALL VALUES OF THE COMPONENT IMPORTANCE FACTOR (IP) OF THE CEILING. WHERE DIFFERENT BRACE SPACING IS SPECIFIED AT VARIOUS STORES, THE RESPECTIVE CEILING PLAN SHALL CLEARLY INDICATE THE BRACE SPACING.

10 TYP. MTL. SUSP. SYSTEM W/ LAY-IN PANELS CLG. DIAGRAM
SCALE: N.T.S.



NOTE 1:
DIMENSION "L" SHALL NOT EXCEED THE ALLOWABLE LENGTH GIVEN FOR THE COMPRESSION STRUT SECTION USED, PER TABLE 7 / A9.11

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

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

TYPICAL SUSPENDED LAY-IN PANEL CEILING SYSTEM NOTES:

(Based upon DSA IR 25-2.19, Issued 01-17-2025)

PURPOSE: THIS INTERPRETATION OF REGULATIONS (IR) PROVIDES GUIDELINES FOR THE DESIGN AND INSTALLATION OF METAL SUSPENSION SYSTEMS FOR LAY-IN CEILINGS ON PROJECTS UNDER DSA JURISDICTION. THIS IR DOES NOT PRECLUDE THE USE OF OTHER SYSTEMS, INCLUDING PROPRIETARY SYSTEMS AS DISCUSSED IN SECTION 4 BELOW OR CUSTOM DESIGNED SYSTEMS, WHEN APPROVED BY DSA.

1. **GENERAL REQUIREMENTS:** CBC SECTION 1616A.1.20 (1616.10.16*) REQUIRES THE DESIGN AND INSTALLATION TO BE IN COMPLIANCE WITH ASTM C635, C636, AND E580, SECTION 5, WITH MODIFICATIONS.
   NOTE: AMENDMENTS IN CBC SECTION 1616A.1.20 (1616.1.10.16*) REPLACE AND APPEND ASCE 7, SECTION 13.5.6.

   THE REQUIREMENTS IN THIS IR APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. HEAVIER SYSTEMS, SYSTEMS THAT ARE NOT FLAT AND LEVEL, THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS, AND FREE FLOATING CEILINGS SUPPORTED BY CHAINS OR CABLES, ARE BEYOND THE MINIMUM REQUIREMENTS OF THIS IR AND WILL REQUIRE SPECIAL DESIGN AND DETAILS.
2. POST-INSTALL ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE A CURRENT EVALUATION REPORT ACCEPTABLE TO DSA IN ACCORDANCE WITH DSA IR A-5
3. **CEILING DESIGN & INSTALLATION REQUIREMENTS.**
   A. **CEILING SYSTEM COMPONENTS:**
      a. SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
      b. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY PER ASTM C580 SECTION 5.1.1 AS DEFINED BY ASTM C635. CROSS RUNNERS SHALL HAVE A MINIMUM LOAD CARRYING CAPABILITY OF 16 POUNDS PER LINEAR FOOT PER ASTM E580 SECTION 5.3.3.
      c. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
      d. HANGER AND BRACE WIRES SHALL CONFORM TO ASTM A641 AND THE MATERIAL PROPERTIES REQUIRED BY IR 25-1. MAXIMUM ALLOWABLE LOAD FOR CEILING WIRES. HANGER AND BRACE WIRES SHALL BE #12-GAUGE (0.106-INCH DIAMETER) OR LARGER.
   B. **SUSPENSION SYSTEM INSTALLATION:**
      a. SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.
      b. HANGER WIRES SHALL BE PROVIDED ON A 4-FOOT BY 4-FOOT GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS. SPLICES IN HANGER WIRES SHALL DEVELOP 50 PERCENT OF THE WIRE ALLOWABLE LOAD. ONLY ONE SPLICE IS PERMITTED IN THE ENTIRE LENGTH OF A HANGER WIRE.
      c. HANGER WIRES SHALL BE PROVIDED AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8-INCHES OF THE CEILING PERIMETER OR WITHIN ONE-FOURTH OF THE LENGTH OF THE END RUNNER, WHICHEVER IS LEAST. PERIMETER HANGER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END RUNNER IS 8-INCHES OR LESS.
      d. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO ADJACENT WALLS (ATTACHED CONDITION) PER ASTM E580 SECTION 5.2.3 AND FIGURE 4. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4-INCH CLEAR OF PERIMETER WALL ANGLES ON THE OTHER WALLS (FREE CONDITION) PER ASTM E580 SECTION 5.2.3 AND FIGURE 5.
      e. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL NOT BE LESS THAN 2-INCHES EXCEPT AS ALLOWED BY SECTION 1.2.6 BELOW. CLOSURE ANGLE SHALL BE SCREWED OR OTHERWISE POSITIVELY ATTACHED TO THE WALL STUDS OR OTHER SUPPORTING STRUCTURE (E.G., BLOCKING).
      f. AT THE UNATTACHED WALLS (FREE CONDITION) OF THE CEILING PERIMETER AN INTERCONNECTION BETWEEN THE RUNNERS TO PREVENT LATERAL SPREADING PER ASTM E580 SECTION 5.2.4 SHALL BE PROVIDED. A METAL STABILIZER OR A #16-GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED AND PLACED WITHIN 8-INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8-INCHES OR LESS, THE STABILIZER OR #16-GAUGE WIRE IS NOT REQUIRED. REFER TO APPENDIX A DETAIL 2.60 BELOW FOR A GRAPHICAL ILLUSTRATION. THE USE OF PROPRIETARY PERIMETER CLIPS TO ELIMINATE THE NEED FOR STABILIZATION IS ACCEPTABLE IN ACCORDANCE WITH SECTION 4.

GENERAL REQUIREMENTS NOTES

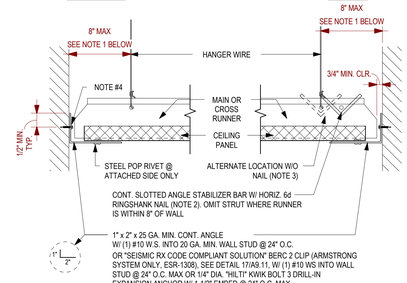
CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS SHALL CLEARLY IDENTIFY ALL SUSPENDED CEILING SYSTEMS, SUPPORT DETAILS, AND LATERAL BRACING.

1. **GENERAL REQUIREMENTS.** THE ITEMS LISTED IN THIS SECTION ARE REQUIRED TO BE PROVIDED IN THE CONSTRUCTION DOCUMENTS WHERE APPLICABLE TO THE PROJECT SCOPE. THIS LIST INCLUDES ITEMS COMMON TO MOST PROJECTS BUT IS NOT COMPLETE FOR ALL PROJECTS. ADDITIONAL INFORMATION AND/OR DETAILS MAY BE REQUIRED ON THE CONSTRUCTION DOCUMENTS FOR A SPECIFIC PROJECT FOR SPECIALTY CONDITIONS, CONFIGURATIONS, PRODUCTS, ETC.

   EXCEPT AS INDICATED IN BOTH SECTION 6.2 AND APPENDIX A OF THIS IR, IT IS NOT PERMITTED TO REPRODUCE THIS IR ON THE CONSTRUCTION DOCUMENTS AS A MEANS TO MEET THESE REQUIREMENTS.
2. **CEILING SYSTEMS.** A LIST OF ACCEPTABLE GRID SYSTEMS MUST BE SHOWN ON THE CONSTRUCTION DOCUMENTS. EACH SYSTEM SPECIFIED MUST BE CLASSIFIED AS HEAVY DUTY AND SHALL HAVE A VALID EVALUATION REPORT IN ACCORDANCE WITH DSA IR A-5. THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THE FOLLOWING FOR EACH ACCEPTABLE GRID SYSTEM: THE MANUFACTURER, PRODUCT NAME, EVALUATION REPORT NUMBER, MAIN AND CROSS RUNNER CATALOG NUMBER, AND IF USED, SEISMIC WALL CLIP. WHEN MANUFACTURER SPECIFIC INFORMATION (PROPRIETARY SEISMIC WALL CLIPS, ETC.) IS PROVIDED IN THE SPECIFICATIONS, DETAILS ON THE CONSTRUCTION DRAWINGS SHALL BE PROVIDED AND/OR COORDINATED TO REFLECT THE SAME MANUFACTURER SPECIFIC INFORMATION.
3. **CEILING SUSPENSION SYSTEM.** THE CEILING SUSPENSION SYSTEM AND ITS ANCHORAGE TO THE STRUCTURE SHALL BE FULLY DETAILED. WHERE PROPRIETARY DEVICES, CLIPS, WALL ANGLES, BRACKETS, ETC. ARE SPECIFIED, THE DETAILS ON THE CONSTRUCTION DOCUMENTS SHALL CLEARLY SPECIFY THE INSTALLATION INFORMATION NECESSARY TO SHOW COMPLIANCE WITH ALL EVALUATION REPORT REQUIREMENTS.
   WHERE ACCEPTED PROPRIETARY DEVICES, CLIPS, WALL ANGLES, ETC. ARE UTILIZED, THE DETAILS ON THE CONSTRUCTION DOCUMENTS SHALL CLEARLY INDICATE THE INSTALLATION DETAILS NECESSARY TO SHOW COMPLIANCE WITH ALL EVALUATION REPORT REQUIREMENTS.
4. **CEILING LATERAL FORCE BRACING.** THE CEILING LATERAL FORCE BRACING SYSTEM, INCLUDING BRACING WIRES, COMPRESSION STRUTS, AND ANCHORAGE TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE CONSTRUCTION DOCUMENTS. THE BRACING ASSEMBLY SPACING AT EACH FLOOR LEVEL SHALL BE CLEARLY SPECIFIED. WHEN A PROPRIETARY LATERAL FORCE BRACING SYSTEM WITH A VALID APPROVAL PER IR A-5 (E.G., HCAI OPM), THE MANUFACTURER'S SYSTEM-SPECIFIC INFORMATION AND DETAILS (E.G., CEILING GRID CLIP, BRACING CONNECTION, ETC.) SHALL BE INCLUDED ON THE CONSTRUCTION DOCUMENTS.
5. **EXPANSION JOINTS AND SEISMIC SEPARATIONS JOINTS.** EXPANSION JOINTS AND SEISMIC SEPARATION JOINTS SHALL BE FULLY DETAILED, AND THEIR LOCATIONS SHALL BE SHOWN ON THE REFLECTED CEILING PLANS.
6. **CEILING FIXTURES, TERMINALS AND DEVICES ANCHORAGE AND BRACING.** DETAILS SPECIFYING REQUIRED SUPPORT AND BRACING OF ALL LUMINAIRES, SERVICES, AND OTHER DEVICES SHALL BE PROVIDED AS REQUIRED TO COMPLY WITH THIS IR. WHERE PENDANT LUMINAIRES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, THE CONSTRUCTION DOCUMENTS SHALL INCLUDE COMPLETE SUPPORT DETAILS COMPLYING WITH IR 16-9.
7. **PENDANT MOUNTED LIGHT FIXTURES.** WHERE PENDANT-MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, THE CONSTRUCTION DOCUMENTS SHALL INCLUDE COMPLETE SUPPORT DETAILS COMPLYING WITH THIS IR AND DSA IR 16-9.
8. **SUPPLEMENTARY SUPPORT MEMBERS.** DETAILS OF TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS NECESSARY TO MAINTAIN TYPICAL HANGER SPACING WHILE AVOIDING OBSTRUCTIONS SHALL BE SHOWN ON THE CONSTRUCTION DOCUMENTS .
9. **PARTITION BRACING.** PARTITION BRACING SHALL BE SHOWN ON THE CONSTRUCTION DOCUMENTS AND BE INDEPENDENT OF THE CEILING SYSTEM.
10. **CEILING NOTES AND DETAILS IN APPENDIX A.** THE CEILING NOTES AND DETAILS PROVIDED IN APPENDIX A BELOW ARE DEEMED TO MEET THE GENERAL REQUIREMENTS OF THIS IR. THESE NOTES AND DETAILS SHALL NOT BE USED FOR CONSTRUCTION OR INSPECTION EXCEPT WHEN INCORPORATED IN DSA-APPROVED CONSTRUCTION DOCUMENTS.]

    USE OF THE NOTES AND DETAILS IN APPENDIX A IS NOT MANDATED BY DSA; THEY ARE PROVIDED ONLY AS A CONVENIENCE TO THE DESIGN PROFESSIONAL FOR INCORPORATION INTO THE CONSTRUCTION DOCUMENTS.
11. USE OF OTHER NOTES AND DETAILS CREATED BY THE DESIGN PROFESSIONAL IS ALWAYS ACCEPTABLE PROVIDED THEY COMPLY WITH THE CBC AND THIS IR.
12. WHILE THE APPENDIX A NOTES AND DETAILS DO NOT COVER EVERY CONDITION THAT MAY OCCUR ON EVERY PROJECT, THEY ARE INTENDED TO COVER CONDITIONS COMMON TO MOST PROJECTS WITH SUSPENDED CEILINGS. IT IS ANTICIPATED THEIR USE WILL FACILITATE A MORE EFFICIENT DESIGN, PLAN REVIEW, ANDCONSTRUCTION PROCESS.
13. AN ELECTRONIC DRAWING FILE OF THE APPENDIX A DETAILS IN REVIT LTTM 2024 FORMAT IS AVAILABLE FOR DOWNLOAD. DSA PROVIDES THIS ELECTRONIC DRAWING FILE TO THE DESIGN PROFESSIONAL FOR CONVENIENCE ONLY. DSA IS NOT RESPONSIBLE FOR ISSUES OF COMPATIBILITY WITH PARTICULAR COMPUTER SYSTEMS OR CONVERSION TO OTHER FILE FORMATS. THE REQUIREMENTS OF THIS IR ARE IN NO WAY CHANGED OR MODIFIED BY PROVIDING THE DESIGN PROFESSIONAL WITH THIS ELECTRONIC DRAWING FILE. THE ELECTRONIC DRAWING FILE MAY NOT BE CURRENTLY UP TO DATE OR IN CONFORMANCE WITH THE PUBLISHED IR. THE DESIGN PROFESSIONAL SHALL VERIFY AND COORDINATE THE INFORMATION WITH THE LATEST PUBLISHED IR. INFORMATION CONTAINED IN THE FILE MAY BE CHANGED OR UPDATED BY DSA, AND DSA HAS NO RESPONSIBILITY TO NOTIFY OR SUPPLY THE REGISTERED DESIGN PROFESSIONAL WITH THESE CHANGES.
14. **CONDITIONS FOR USE OF CEILING NOTES AND DETAILS.** THE CONDITIONS AND REQUIREMENTS FOR USE OF THE CEILING NOTES AND DETAILS IN APPENDIX A BELOW ARE AS FOLLOWS:
    A. THE DETAILS GIVE NO CONSIDERATION TO SUITABILITY FOR USE IN A SPECIFIC APPLICATION, COMPATIBILITY WITH OTHER BUILDING SYSTEMS, APPROPRIATE USE OF MATERIALS OR DESIGN, APPEARANCES, ETC. THE DESIGN PROFESSIONAL IS LISTED ON THE FORM DSA 1: APPLICATION FOR APPROVAL OF PLANS AND SPECIFICATIONS SHALL REVIEW ALL SUCH QUALITIES, FEATURES, AND PROPERTIES TO ENSURE CODE COMPLIANCE, APPROPRIATE INTEGRATION WITH OTHER BUILDING SYSTEMS, AND PROPER DESIGN FOR THE PROJECT-SPECIFIC CONDITIONS.
    B. WHEN THE DETAILS IN APPENDIX A BELOW ARE USED, THEY SHALL BE INCORPORATED INTO THE CONSTRUCTION DRAWINGS SUBMITTED FOR DSA REVIEW AND APPROVAL. INCORPORATION BY REFERENCE ALONE IS NOT PERMITTED. ONLY THE NOTES AND DETAILS APPLICABLE TO THE SCOPE OF THE PROJECT SHALL BE INCORPORATED IN THE CONSTRUCTION DOCUMENTS (E.G., DO NOT INCLUDE CONCRETE CONNECTION DETAILS IN THE CONSTRUCTION DRAWINGS FOR A CONCRETE STRUCTURE, DO NOT INCLUDE ESSENTIAL SERVICES BUILDING DETAILS IN THE CONSTRUCTION DOCUMENTS FOR A SCHOOL PROJECT, ETC.).
    C. PROVIDED THE CONTENT OF THE DETAILS IS NOT CHANGED, IT IS LEFT TO THE DISCRETION OF THE DESIGN PROFESSIONAL TO RECONFIGURE (I.E., RENUMBER, RESIZE, ETC.) THE DETAILS FOR INTEGRATION INTO THE CONSTRUCTION DRAWINGS.
       a. EXCEPTION: THE DESIGN PROFESSIONAL (DP) IS REQUIRED TO PROVIDE ADDITIONAL INFORMATION ON ALL DETAILS WHERE SO INDICATED IN BRACKETS WITH BOLD AND ITALICIZED TEXT, SUCH AS "[DP TO SPECIFY...]". THESE BRACKETS AND NOTES TO THE DESIGN PROFESSIONAL SHALL BE REMOVED FROM THE DETAILS AND REPLACED WITH THE APPLICABLE INFORMATION.
    D. THESE DETAILS SUBMITTED AS PART OF THE CONSTRUCTION DOCUMENTS DURING THE PLAN REVIEW PROCESS WILL BE SUBJECT TO PLAN REVIEW AS FOLLOWS:
       a. IT IS EXPECTED NO PLAN REVIEW COMMENT WILL BE MADE ON A DETAIL INCORPORATED INTO THE CONSTRUCTION DOCUMENTS THAT IS UNALTERED AND FOUND APPLICABLE TO THE PROJECT FOR WHICH IT IS SUBMITTED.
       b. WHERE A DETAIL REQUIRES THE DESIGNER TO PROVIDE ADDITIONAL INFORMATION TO COMPLETE THE DETAIL BEFORE APPLYING IT TO THE DRAWINGS, PLAN REVIEW WILL BE LIMITED TO THE FOLLOWING:
          a. A REVIEW OF ONLY THE ADDITIONAL INFORMATION PROVIDED.
          b. A REVIEW TO DETERMINE IF THE DETAIL, WITH THE ADDITIONAL INFORMATION, IS APPLICABLE TO PROJECT FOR WHICH IT IS SUBMITTED.
       c. WHERE A DETAIL INCORPORATED INTO THE CONSTRUCTION DOCUMENTS HAS BEEN ALTERED BEYOND THAT ALLOWED IN A AND B) ABOVE, IT WILL BE SUBJECT TO A FULL REVIEW FOR BOTH DETAIL CONTENT AND APPLICABILITY TO THE PROJECT FOR WHICH IT IS SUBMITTED.
    E. WHERE CONDITIONS NOT COVERED BY THE DETAILS IN APPENDIX A OCCUR, PROJECT-SPECIFIC DESIGN AND DETAILS WILL BE PROVIDED BY THE DESIGN PROFESSIONAL. THIS INCLUDES, BUT IS NOT LIMITED TO, PENDANT LIGHT FIXTURES, PROJECTOR SUPPORTS, PROJECTOR SCREENS, CEILING FANS AND FREE-FLOATING CEILINGS.

7 COMPRESSION STRUT TABLE
SCALE: 3" = 1'-0"



NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVE ANGLES OR CHANNELS WITH "DIAMOND POINTS" O

DOOR SCHEDULE GENERAL NOTES

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

B 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.

C REFER TO DETAIL X/A10.XX FOR SIGN TYPES.

D REFER TO TYPICAL DOOR NOTES DETAIL FOR SIGN PLACEMENT.

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

F ALL DOORS AND FRAMES TO BE PAINTED UNLESS OTHERWISE NOTED

G FIRE RATING IS ZERO HOURS UNLESS OTHERWISE NOTED

H ALL DOORS TO BE NEW DOOR, FRAME , AND HARDWARE UNLESSS NOTED AS EXISTING OR UNLESS OTHERWISE NOTED. SEE COMMENTS

I SEE HARDWARE GROUPS AND DOOR COMMENTS FOR DOOR HARDWARE TO BE SALVAGED AND REUSED.

DOOR SCHEDULE COMMENTS

1 SALVAGE AND REINSTALL (E) DOOR. PROVIDE NEW LOCKSET WITH INDICATOR. REUSE BALANCE OF REMAINING HARDWARE.

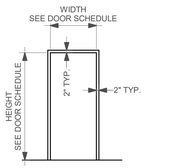
2 REPLACE (E) DOOR AND FRAME. REUSE (E) HARDWARE.

3 NO CLOSER.

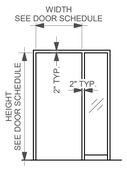
4 LOUVER TO BE PROVIDED

5 DOOR TO BE PROVIDED WITHOUT DOOR CLOSER

6 PANIC HARDWARE



F1 **HOLLOW METAL**

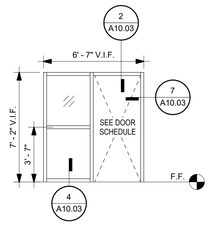


F2 **HOLLOW METAL**

GLAZING TYPE: A

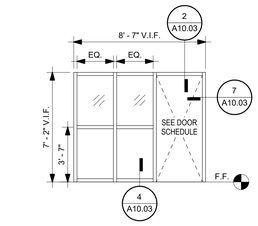
FRAME TYPES

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



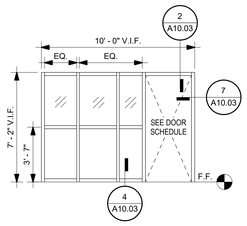
S1 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL
S1A REVERSED



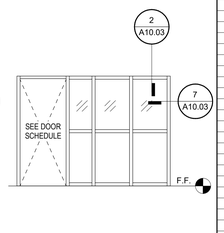
S2 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL



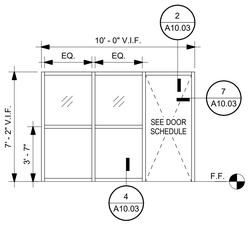
S3 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL



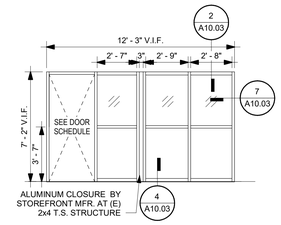
S11 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL
S11A REVERSED



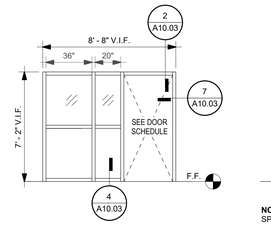
S4 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL
S4A REVERSED



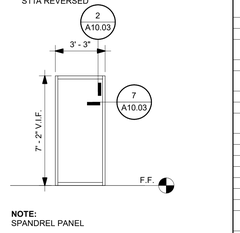
S5 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL



S6 **ALUMINUM STOREFRONT**

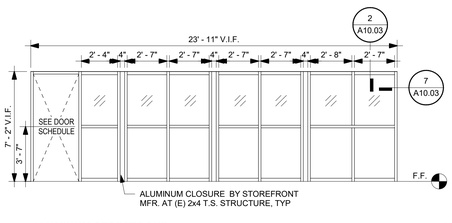
GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL



NOTE:
SPANDREL PANEL

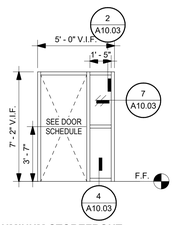
S10 **ALUMINUM STOREFRONT**

NONGLAZED PANEL: INSULATED SPANDREL



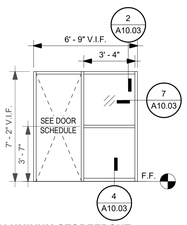
S7 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL



S8 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL
S8A REVERSED

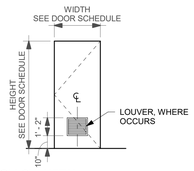


S9 **ALUMINUM STOREFRONT**

GLAZING TYPE: B
NONGLAZED PANEL: INSULATED SPANDREL
S9A REVERSED

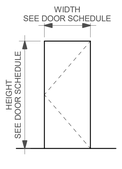
STOREFRONT TYPES

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



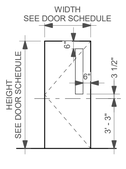
A **HOLLOW METAL**

RATED - NONE



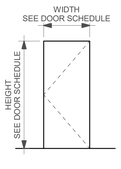
B **ALUMINUM**

RATED - NONE



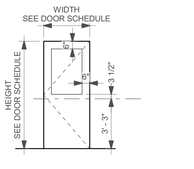
C **WOOD WITH QUARTER LITE**

RATED - NONE
GLAZING TYPE - A



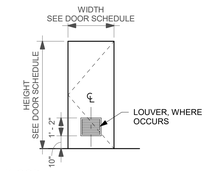
D **WOOD**

RATED - 1 HR.



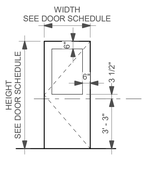
E **ALUMINUM WITH HALF LITE**

RATED - NONE
GLAZING TYPE - B



F **WOOD**

RATED - NONE



G **WOOD WITH HALF LITE**

RATED - NONE
GLAZING TYPE - A

DOOR TYPES

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

DOOR SCHEDULE

DOOR ID	OPENING SIZE		DOOR			FRAME		DETAILS (Sheet A10.02 U.O.N.)				FIRE RATING (min.)	HARDWARE GROUP	SIGN		
	WIDTH	HEIGHT	TYPE	FINISH	GLAZING	TYPE	FINISH	HEAD	JAMB-1	JAMB-2	SILL			TYPE	LANGUAGE	COMMENTS
	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	WORKROOM	
01A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W1A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 1	6
01B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 1	
02A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 2	6
02B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 2	
03A	2' - 10"	7' - 0"	B	ANODIZED ALUM.		W6	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	03	2	CLASSROOM 3	6
03B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 3	
04A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W3	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 4	6
04B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 4	
05A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 5	6
05B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 5	
06A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 6	6
06B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 6	
07A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W1	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 7	6
07B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 7	
08A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W8	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 8	6
08B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 8	
09A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 9	6
09B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 9	
10A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W2	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	01	2	CLASSROOM 10	6
10B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	07	2, 11	CLASSROOM 10	6
11A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 11	6
11B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 11	
12A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 12	6
12B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 12	
13A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W8A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	03	2	CLASSROOM 13	6
13B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 13	
14A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W1A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 14	6
14B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 14	
15A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 15	6
15B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 15	
16A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W4A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	2	CLASSROOM 16	6
16B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 16	
17A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		(E)	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	(E)	2, 12A	CLASSROOM 17	6
17B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	07	2, 11	CLASSROOM 17	6
18A	3' - 0"	7' - 0"	B	P-4		(E)	P-4	2/A10.03	7/A10.03			-	(E)	2, 12A	CLASSROOM 18	6
18B	3' - 0"	7' - 0"	C	P-4		F2	P-4	13/A10.02	13/A10.02			-	08	2, 11	CLASSROOM 18	
19A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	12A	CLASSROOM 19	6
19B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 11	CLASSROOM 19	
20A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	CLASSROOM 20	6
20B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 11	CLASSROOM 20	
21A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	CLASSROOM 21	6
21B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 11	CLASSROOM 21	
22A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	CLASSROOM 22	6
22B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 11	CLASSROOM 22	
23A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	CLASSROOM 23	6
23B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 11	CLASSROOM 23	
24A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
25A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2	OFFICE	
26A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1	CLASSROOMS	
27A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
28A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
29A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
29B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
30A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
31A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
32A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
33A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
33B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
34A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
35A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
36A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	2	CLASSROOM 36	
37A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 30 MIN.	(E)	1	STORAGE	
38A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	NOT AN ENTRANCE	6
38B	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	2, 12A	NOT AN ENTRANCE	6
38C	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	2	MULTI-USE	
38D	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	2	MULTI-USE	
38E	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	2, 2	CLASSROOM 36, MULTI-USE	
39A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1,1	MULTI-USE, KITCHEN	
40A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 60 MIN.	(E)	1	STORAGE	
41A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1, 12A	NOT AN ENTRANCE	6
41B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1, 1	KITCHEN, CORRIDOR	
41C	5' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1,1	KITCHEN, CORRIDOR	
42A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
43A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	11	1, 8A	ALL GENDER RESTROOM	1
44A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	11	4A, 5	WOMEN	1
45A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1	CUSTODIAL	
46A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	ALL GENDER RESTROOM	
47A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1, 12A	NOT AN ENTRANCE	
47B	6' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1, 1	CORRIDOR, CORRIDOR	
47C	6' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1, 12A	CORRIDOR	
48A	3' - 0"	7' - 0"	C	P-4		F1	P-4	13/A10.02	13/A10.02			-	09	1	OFFICE	3
49A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
50A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	WORKROOM	5
51A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	4A, 5	GIRLS	
52A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	STORAGE	
53A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	6A, 7	BOYS	
54A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W9A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	01	1, 12A	COMMONS	
56A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
57A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
58A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	OFFICE	
59A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4					-	(E)	1, 12B	NOT AN ENTRANCE	3
59B	3' - 0"	7' - 0"	G	P-4	-	F1	P-4	13/A10.02	13/A10.02			-	09	1, 12B	HEALTH,	3
61A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1, 8A	ALL GENDER RESTROOM	4
62A	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	1, 12A	MAIN OFFICE	6
62B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	STORAGE	
64A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	WORKROOM	
64B	3' - 0"	7' - 0"	D	P-4		F1	P-4	13/A10.02	13/A10.02			20 MIN.	08	1, 1	CORRIDOR, WORKROOM	
65A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 20 MIN.	(E)	1	STORAGE	
66A	5' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)		(E)	-	(E)	1	UTILITIES	
66B	5' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	UTILITIES	
68A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	CUSTODIAL	
69A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	WORKROOM	
70A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 60 MIN.	(E)	1	FIRE ALARM CONTROL PANEL & ELECTRICAL	
71A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	(E) 60 MIN.	(E)	1	STORAGE	
72A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W9	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	01	1, 12A	COMMONS	6
72B	3' - 0"	7' - 0"	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	1	1	
73A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W7	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	02	1, 12A	CLASSROOM K2	6
73B	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1, 11	CLASSROOM K2	
74A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W5	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	03	1, 12A	CLASSROOM K1	6
74B	3' - 0"	7' - 0"	C	P-4		F1	P-4	13/A10.02	13/A10.02				10	1, 1	CLASSROOM K1, CLASSROOM K2	
75A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	STORAGE	
76A	3' - 0"	7' - 0"	F	P-4		F1	P-4	13/A10.02	13/A10.02			-	(E)	1, 8A	ALL GENDER RESTROOM	2
77A	3' - 0"	7' - 0"	F	P-4		F1	P-4	13/A10.02	13/A10.02			-	(E)	1, 8A	ALL GENDER RESTROOM	2
78	3' - 0"	7' - 0"	F	P-4		F1	P-4	10/A10.02	11/A10.02			-	(E)	6A, 7	BOYS	2
78A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	6A		
79	3' - 0"	7' - 0"	F	P-4		F1	P-4	10/A10.02	11/A10.02			-	(E)	4A, 5	GIRLS	2
79A	3' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	4A		
80A	6' - 0"	7' - 0"	(E)	P-4	-	(E)	P-4	(E)	(E)	(E)	(E)	-	(E)	1	STORAGE	
81A	3' - 0"	7' - 0"	B	ANODIZED ALUM.		W1A	ANODIZED ALUM.	2/A10.03	7/A10.03		4/A10.03	-	01	1, 12A	COMMONS	6
82A	3' - 0"	7' - 0"	G	P-4		F1	P-4	13/A10.02	13/A10.02			-	09	1, 12B	HEALTH	3, 4
83A	3' - 0"	7' - 0"	A	P-4		F1	P-4	10/A10.02	11/A10.02			-	04	1, 8A	ALL GENDER RESTROOM	4

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN PITTENGER — NO. C34340 — EXP. 08.31.2026 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

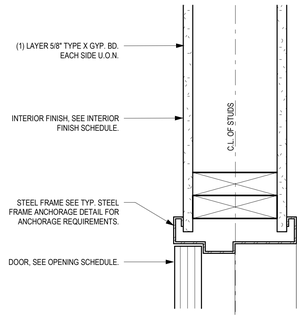
OPENING SCHEDULE & TYPES

DATE 09/05/2025

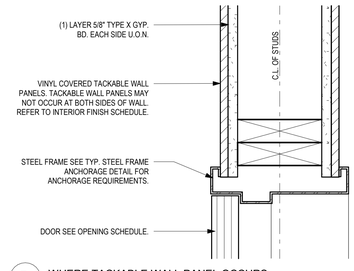
JOB # 2024022

SHEET # A10.01

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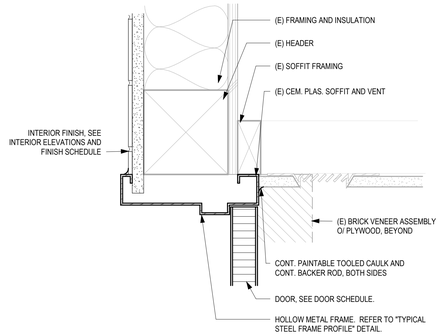


A TYPICAL CONDITION
SCALE: 3" = 1'-0"

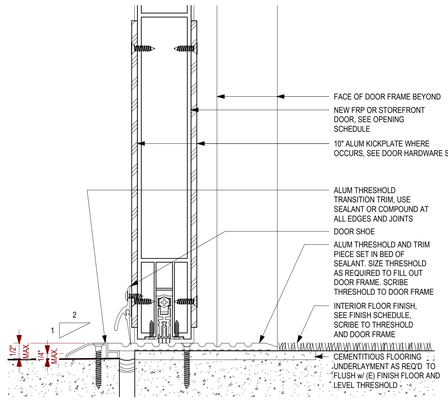


D WHERE TACKABLE WALL PANEL OCCURS
SCALE: 3" = 1'-0"

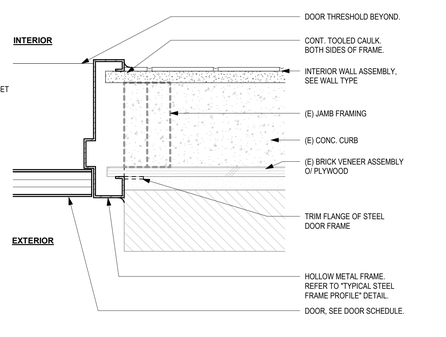
13 INTERIOR STEEL FRAME HEAD AND JAMB
SCALE: 3" = 1'-0"



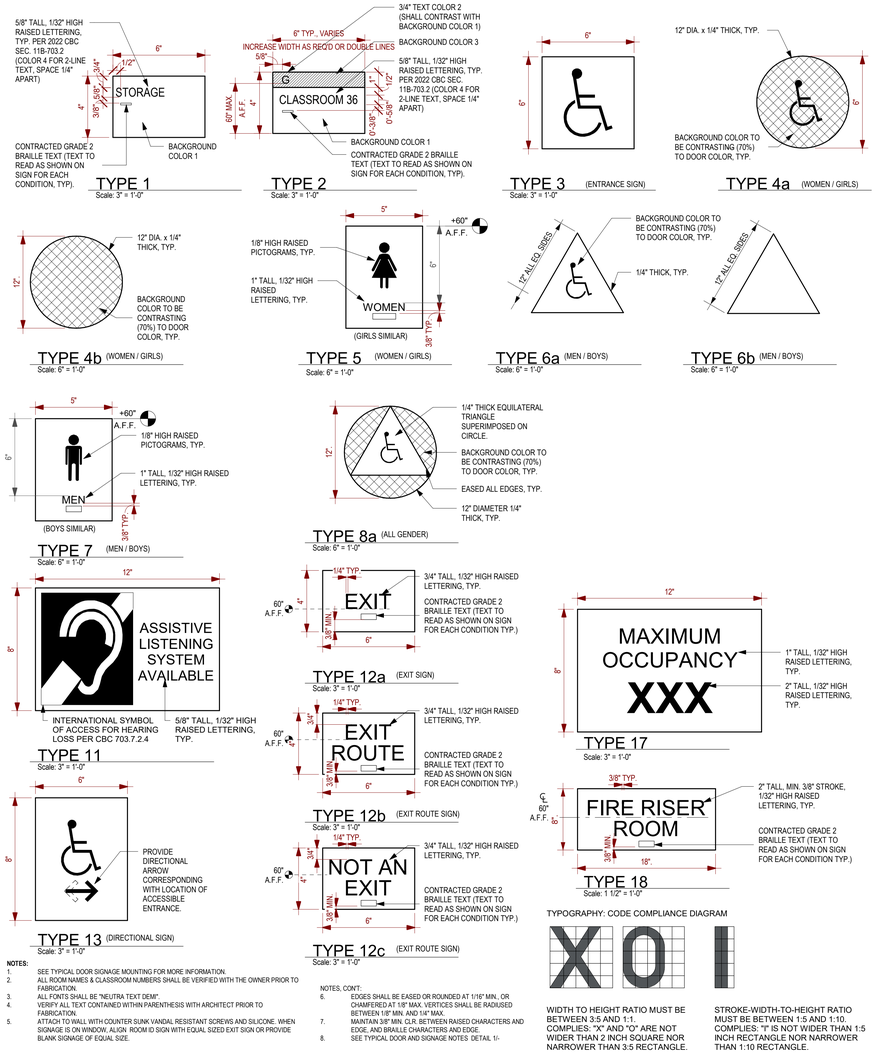
10 EXT DOOR HEAD AT BRICK VENEER
SCALE: 3" = 1'-0"



15 DOOR SILL THRESHOLD @ CONC. SLAB
SCALE: 6" = 1'-0"



11 STEEL DOOR FRAME JAMB @ BRICK VENEER
SCALE: 3" = 1'-0"



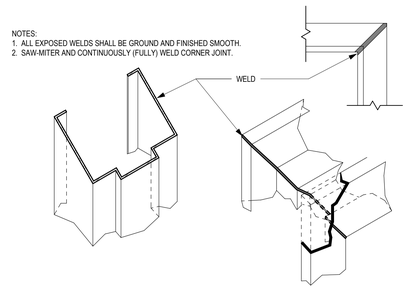
NOTES:
1. SEE TYPICAL DOOR SIGNAGE MOUNTING FOR MORE INFORMATION.
2. ALL ROOM NAMES & CLASSROOM NUMBERS SHALL BE VERIFIED WITH THE OWNER PRIOR TO FABRICATION.
3. ALL FONTS SHALL BE "NEUTRA TEXT DEMI".
4. VERIFY ALL TEXT CONTAINED WITHIN PARENTHESIS WITH ARCHITECT PRIOR TO FABRICATION.
5. ATTACH TO WALL WITH COUNTER SUNK VANDAL RESISTANT SCREWS AND SILICONE. WHEN SIGNAGE IS ON WINDOW, ALIGN ROOM ID SIGN WITH EQUAL SIZED EXIT SIGN OR PROVIDE BLANK SIGNAGE OF EQUAL SIZE.
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. MAINTAIN 3/8" MIN. CLR. BETWEEN RAISED CHARACTERS AND EDGE, AND BRAILLE CHARACTERS AND EDGE.
8. SEE TYPICAL DOOR AND SIGNAGE NOTES DETAIL 1/-

TYPOGRAPHY: CODE COMPLIANCE DIAGRAM

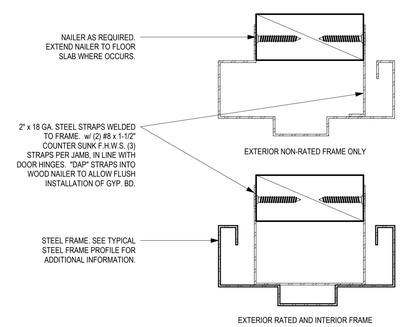
WIDTH TO HEIGHT RATIO MUST BE BETWEEN 3:5 AND 1:1. COMPLIES: "X" AND "O" ARE NOT WIDER THAN 2 INCH SQUARE NOR NARROWER THAN 3:5 RECTANGLE.

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.

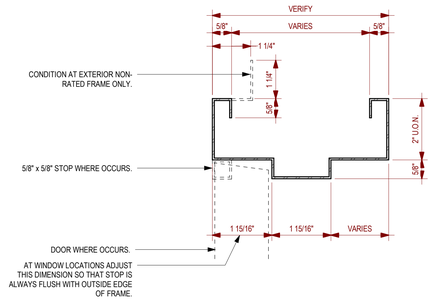
7 TYPICAL SIGNAGE
SCALE: 3" = 1'-0"



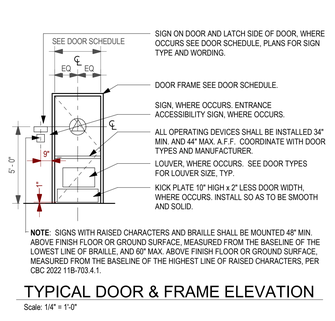
20 TYP. WELDING @ STEEL FRAME CORNER
SCALE: 1 : 1



16 TYPICAL STEEL FRAME ANCHORAGE
SCALE: 6" = 1'-0"

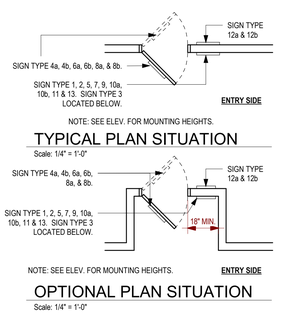


12 TYPICAL STEEL FRAME DOOR PROFILE
SCALE: 6" = 1'-0"



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 2022 11B-703.4.1.

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



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

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 2022 SECTION 11B-216.8 & 11B-703.7.2.6, MOUNTED AT 58" MIN. TO 60" MAX. TO CENTER OF SIGN TO FINISH FLOOR.
2. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF CLOSING. ALL DOORS TO COMPLY WITH 2022 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 U.B.C. STANDARDS)
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.
6. BRAILLE TEXT SHALL BE CALIFORNIA 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.

8 TYPICAL DOOR NOTES
SCALE: 1/4" = 1'-0"

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN PETTERSEN NO. C44940 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

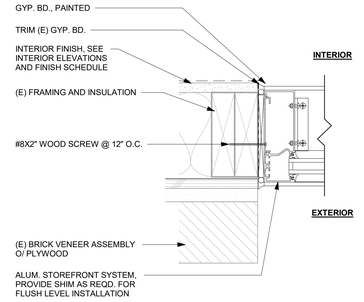
OPENING DETAILS

DATE	09/05/2025
JOB #	2024022

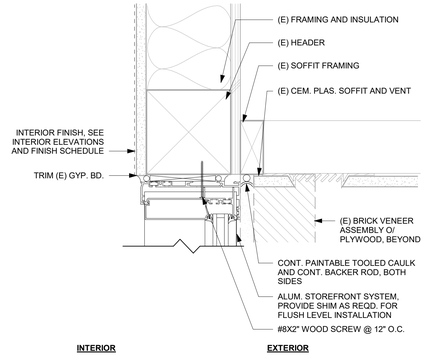
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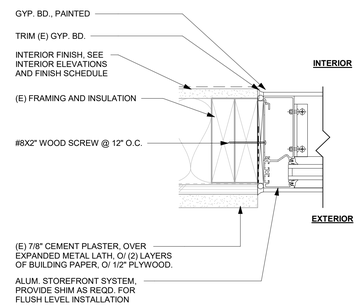
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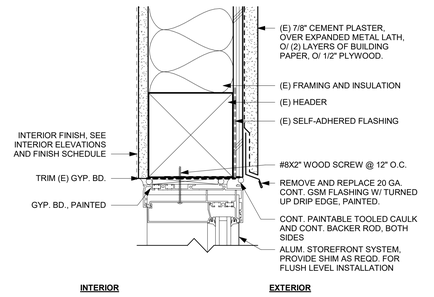
6 EXT STOREFRONT JAMB AT BRICK VENEER
SCALE: 3" = 1'-0"



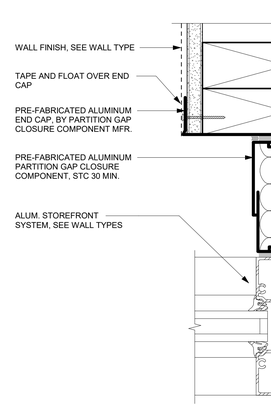
2 EXT STOREFRONT HEAD AT BRICK VENEER
SCALE: 3" = 1'-0"



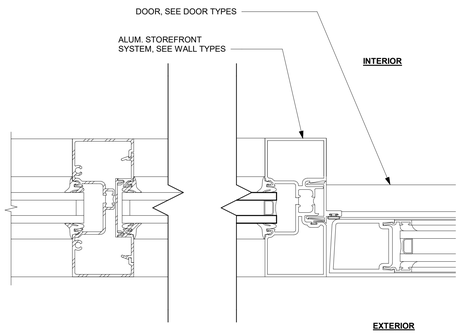
7 EXT STOREFRONT JAMB AT CEM. PLAS.
SCALE: 3" = 1'-0"



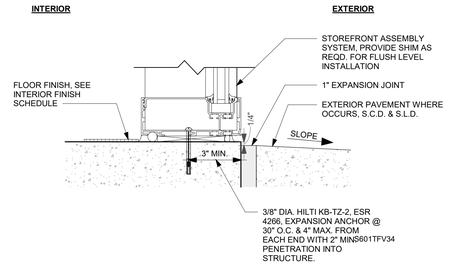
3 EXT STOREFRONT HEAD AT CEM. PLAS.
SCALE: 3" = 1'-0"



12 EXT STOREFRONT - MULLION TO WALL
SCALE: 6" = 1'-0"



8 EXT STOREFRONT - DOOR TO GLAZING MULLION
SCALE: 6" = 1'-0"



4 EXTERIOR STOREFRONT SILL
SCALE: 3" = 1'-0"

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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN C. PITTENGER — No. C34940 — REN. 07/31/27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

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DSA SUB	09/05/2025

SHEET

OPENING DETAILS

DATE 09/05/2025

JOB # 2024022

SHEET # A10.03

4/27/2026 11:40:29 AM

FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
01	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
02	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
03	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
04	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
05	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
06	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
07	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
09	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
10	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
11	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
12	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
13	CLASSROOOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
14	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
15	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
16	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
17	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
18	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1, GB-2	
19	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
20	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
21	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
22	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
23	CLASSROOM	CPT-1, CPT-2	B-1	TWP-1,P-1	GB-1,ACT-1	
24	WAITING	(E)	(E)	(E)	(E)	
25	WORKROOM	(E)	(E)	(E)	(E)	
26	WORK AREA	(E)	(E)	(E)	GB-P, GB-2, ACT-1	
27	OBSERVATION	(E)	(E)	(E)	(E)	
28	ALL-GENDER	(E)	(E)	(E)	(E)	
29	TUTOR	(E)	(E)	(E)	(E)	
30	ALL-GENDER	(E)	(E)	(E)	(E)	
31	OBSERVATION	(E)	(E)	(E)	(E)	
32	ALL-GENDER	(E)	(E)	(E)	(E)	
33	TUTOR	(E)	(E)	(E)	(E)	
34	ALL-GENDER	(E)	(E)	(E)	(E)	
35	OBSERVATION	(E)	(E)	(E)	(E)	
36	MUSIC	(E)	(E)	(E)	(E)	
37	STORAGE	(E)	(E)	(E)	(E)	
38	MULTI-USE	(E)	(E)	(E)	(E)	
39	DISHWASHER	(E)	(E)	(E)	(E)	
40	STORAGE	(E)	(E)	(E)	(E)	
41	KITCHEN	(E)	(E)	(E)	(E)	
42	STAFF ALL-GENDER	(E)	(E)	(E)	(E)	
43	STAFF ALL-GENDER	(E)	(E)	(E)	(E)	
44	WOMEN	(E)	(E)	(E)	(E)	
45	CUSTODIAL	(E)	(E)	(E)	(E)	
46	ALL-GENDER	(E)	(E)	(E)	(E)	
47	CORRIDOR	(E)	(E), B-1	(E)	(E)	
48	PSYCH.	CPT-1	B-1	(E)	GB-P, GB-2	
49	SPEECH	(E)	(E)	(E)	(E)	
50	WORKROOM	(E)	(E)	(E)	(E)	
51	GIRLS	(E)	(E)	(E)	(E),GB-2	1
52	PE EQUIPMENT	(E)	(E)	(E)	(E)	
53	BOYS	(E)	(E)	(E)	(E),GB-2	1
54	COMMONS	CPT-1, CPT-2, CPT-3, CPT-4	B-1	TWP-1,P-1	ACT-P, GB-P	
55	LIBRARY	CPT-1,CPT-3	B-1	TWP-1,P-1	ACT-P, GB-2	
56	AUDIO-VISUAL	(E)	(E)	(E)	(E)	

FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
57	LIBRARIAN	(E)	(E)	(E)	(E)	
58	PRINCIPAL	CPT-1	B-1	GB-P	(E)	
59	HEALTH	(E)	(E)	P-1	ACT-1	
61	ALL-GENDER	(E)	(E)	(E)	GB-P,GB-2	1
62	ADMIN	(E), LVT-1	B-1	(E)	(E),GB-2	
63	WORKROOM	(E)	(E)	(E)	(E)	
64	STAFF	(E), LVT-1	(E), B-1	(E)	(E)	
65	SUPPLY	(E)	(E)	(E)	(E)	
66	UTILITY	(E)	(E)	(E)	(E)	
68	CUSTODIAL	(E)	(E)	(E)	(E)	
69	WORKROOM	(E)	(E)	(E)	(E)	
70	ELECTRICAL	(E)	(E)	(E)	(E)	
71	STORAGE	(E)	(E)	(E)	(E)	
72	COMMONS	CPT-1, CPT-2, CPT-3, CPT-4	B-1	TWP-1,P-1	ACT-P, GB-P	
75	WORKROOM	(E)	B-1	(E)	(E)	
76	KG RR	(E)	(E)	(E)	(E)	
77	KG RR	(E)	(E)	(E)	(E)	
78	BOYS RR	(E), EPX-1	(E), EPX-2	(E), FRP, P-1	(E), GB-2	1
79	GIRLS RR	(E), EPX-2	(E), EPX-2	(E), FRP, P-1	(E), GB-2	1
80	P.E. EQUIPMENT	(E)	(E)	(E)	(E)	
81	COMMONS	CPT-1, CPT-2, CPT-3, CPT-4	B-1	TWP-1,P-1	ACT-P, GB-P	
82	WORKROOM	RS-1	(E)	P-1	GB-2	
83	ALL-GENDER	CT-4,GR-1	-	CT-1, CT-2, CT-3, GR-1	GB-2	1
84	ALL-GENDER	CT-4,GR-1	-	CT-1, CT-2, CT-3, GR-1	GB-2	1
85	STORAGE	(E)	(E)	P-1,CP-1	GB-2	
86	STAFF ALL-GENDER	CT-4,GR-1	-	CT-1, CT-2, CT-3, GR-1	GB-2	1
K1	KINDERGARTEN	CPT-1, CPT-2	B-1	TWP-1,P-1	ACT-P,GB-1	
K2	KINDERGARTEN	CPT-1, CPT-2	B-1	TWP-1,P-1	ACT-P,GB-1	

FINISH SCHEDULE GENERAL NOTES

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

B WHERE MULTIPLE FLOOR FINISHES ARE CALLED OUT, REFER TO FINISH FLOOR PLANS FOR LOCATIONS OF INDIVIDUAL FINISHES.

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

FINISH SCHEDULE COMMENTS

1 SCHLUTER ALUM. TRIM AT FLOOR TO WALL TRANSITIONS, EXTERIOR CORNERS, INTERIOR CORNERS, AND TOP OF TILE TRANSITION.

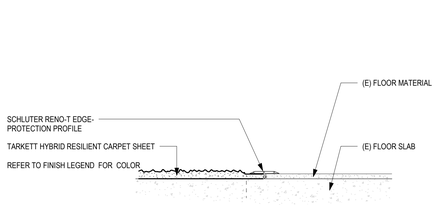
2 NOT USED

FINISH LEGEND

MARK	DESCRIPTION	MFR. / BRAND	COLOR / FINISH	COMMENTS
ACT-1	2'-0" X 4'-0" SUSPENDED ACOUSTICAL CEILING TILES	ARMSTRONG	FINE FISSURE 465 OR 466	TO MATCH EXISTING
ACT-P	EXISTING KEYED 1'-0" X 1'-0" ACOUSTICAL CEILING TILE, PAINTED	ARMSTRONG		PAINT P-5
B-1	4" RUBBER TOP SET BASE	TARKETT	32 PEBBLE WG COLOR MATCH	
BV-1	(E) BRICK VENEER			
BV-2	BRICK VENEER			
CONC-1	(E) CONCRETE, SEALED			
CP-1	(E) CEMENT PLASTER, PAINTED	SHERWIN WILLIAMS	SW 7042 GREEK VILLA	FIELD COLOR
CP-2	(E) CEMENT PLASTER, PAINTED	SHERWIN WILLIAMS	SW 6067 CITYSCAPE	ACCENT COLOR
CPT-1	CARPET (ROLL)	TARKETT	AFTERMATH II 03026 FLEECE	
CPT-2	CARPET (ROLL)	TARKETT	02578 ABRASIVE ACTION II 19100 CHARCOAL	
CPT-3	CARPET (ROLL)	TARKETT	04539 NANO 48210 ATMOSPHERIC	
CPT-4	CARPET (ROLL)	TARKETT	04539 NANO 48201 WIRED	
CPT-5	CARPET (ROLL)	TARKETT	04539 NANO 48208 CHROMITE	
CT-1	3" X 6" CERAMIC TILE	DALTILE	SEMI-GLOSS SUEDE GRAY	
CT-2	3" X 6" CERAMIC TILE	DALTILE	SEMI-GLOSS DESERT GRAY	
CT-3	3" X 6" CERAMIC TILE	DALTILE		
CT-4	1" X 1" DAL KEYSTONES GROUP 1 PORCELAIN MOSAIC	DALTILE	DESERT GRAY SPECKLE	
EPX-1	EPOXY FLOORING			
EPX-2	EPOXY COVE BASE			
FRP	FIBERGLASS REINFORCED PLASTIC PANELS	KOROGUARD		
GB-1	EXISTING REFINISHED GYPSUM BOARD, PAINTED			EXISTING GYB. BOARD, REMOVE POPCORN FINISH, REFINISH, AND PAINT P-5
GB-2	NEW GYPSUM BOARD CEILING, PAINTED			
GB-P	EXISTING GYPSUM BOARD, PAINTED			
GR-1	GROUT	CBP	PRISM #644 SHADOW	
LVT-1	LUXURY VINYL TILE			
MD	EXPOSED STRUCTURAL METAL DECKING			
MS	MASONITE STAGE FLOORING			
P-1	PAINT (INTERIOR FIELD)	SHERWIN WILLIAMS	SW 7042 GREEK VILLA	
P-2	PAINT (INTERIOR TRIM)	SHERWIN WILLIAMS	SW6244 NAVAL	
P-3	PAINT (EXTERIOR FIELD)	SHERWIN WILLIAMS	SW 7042 GREEK VILLA	
P-5	PAINT (CEILING)	SHERWIN WILLIAMS	SW 7042 GREEK VILLA	
RS-1	VINYL SEET	TARKETT	iQ GRANIT	
TS-1	TACTILE STRIP (YELLOW)	(VIP / BIC)		

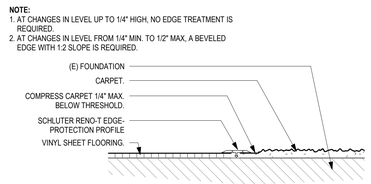
FINISH LEGEND COMMENTS

1 NOT USED



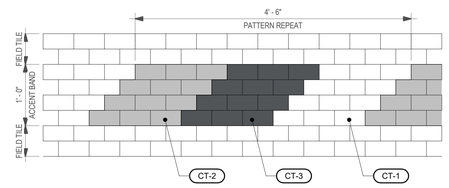
NOTE:
1. AT CHANGES IN LEVEL UP TO 1/4" HIGH, NO EDGE TREATMENT IS REQUIRED.
2. AT CHANGES IN LEVEL FROM 1/4" MIN. TO 1/2" MAX, A BEVELED EDGE WITH 1:2 SLOPE IS REQUIRED.

10 CARPET TO (E) FLOORING TRANSITION
SCALE: 6" = 1'-0"

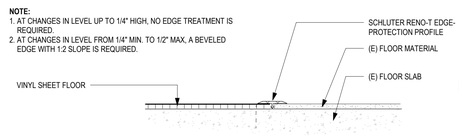


NOTE:
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2. AT CHANGES IN LEVEL FROM 1/4" MIN. TO 1/2" MAX, A BEVELED EDGE WITH 1:2 SLOPE IS REQUIRED.

11 CARPET TO VINYL SHEET FLOORING TRANSITION
SCALE: 6" = 1'-0"

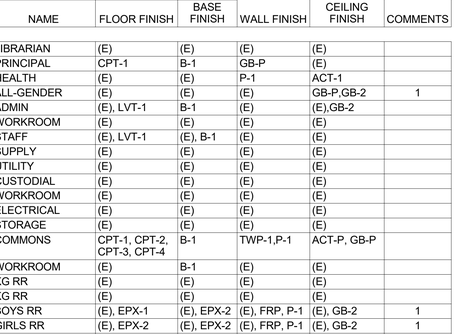


16 ENLARGED TILE PATTERN
SCALE: 1" = 1'-0"

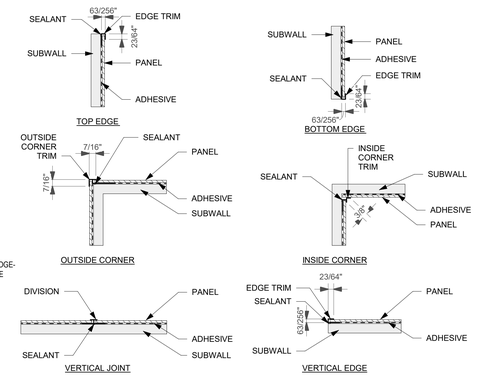


NOTE:
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2. AT CHANGES IN LEVEL FROM 1/4" MIN. TO 1/2" MAX, A BEVELED EDGE WITH 1:2 SLOPE IS REQUIRED.

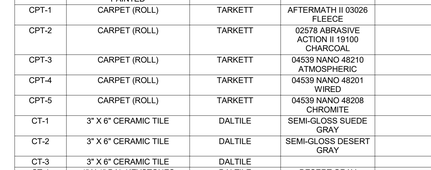
12 VINYL SHEET FLOORING TO (E) FLOOR TRANSITION
SCALE: 6" = 1'-0"



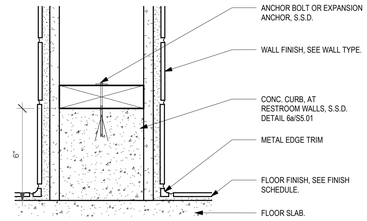
7 DEMO CEILING @ LIBRARY
SCALE: 1/4" = 1'-0"



8 TYPICAL FRP TRIM & MOULDINGS
SCALE: 3" = 1'-0"



3 TYPICAL INTERIOR WALL BASE
SCALE: 3" = 1'-0"



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

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. PITTENGER NO. C44940 REN. 07/31/27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FINISH SCHEDULE, LEGEND & DETAILS

DATE 09/05/2025

JOB # 2024022

SHEET # A11.01

4/27/2026 11:40:33 AM

CASEWORK SCHEDULE								
CABINET	WOODWORK INSTITUTE CASEWORK DESIGN SERIES #	WIDTH	HEIGHT	DEPTH	CABINET FINISH, EXPOSED	CABINET FINISH, SEMI-EXPOSED	COUNTERTOP FINISH	COMMENTS
C102	102	3' - 0"	2' - 2"	2' - 0"	PLAM-1	PLAM-2	SS-1	<varies>
C103	102	3' - 0"	2' - 2"	2' - 0"	PLAM-1	PLAM-2	SS-1	1
C104	102	4' - 0"	2' - 2"	2' - 0"	PLAM-1	PLAM-2	SS-1	
C154	154B	3' - 0"	2' - 2"	2' - 0"	PLAM-1	PLAM-2	SS-1	
C402	402	3' - 0"	6' - 0"	2' - 0"	PLAM-1	PLAM-2	N/A	2

CASEWORK SCHEDULE GENERAL NOTES

1 LOCKABLE CABINETS ARE INDICATED ON ELEVATIONS BY SYMBOL "L".

2 REFER TO INTERIOR ELEVATIONS FOR QUANTITIES AND LOCATION.

3 CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO FABRICATION.

4 REFER TO "CABINET ANCHORAGE DETAILS" FOR TYPICAL CABINET ANCHORAGE REQUIREMENTS.

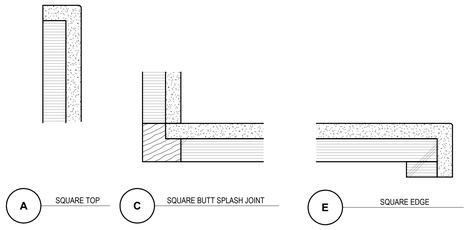
5 FOR BASE CABINETS, HEIGHT IS TO TOP OF COUNTERTOP, U.O.N.

6 DEPTH OF CASEWORK INCLUDES COUNTERTOP OVERHANG, U.O.N.

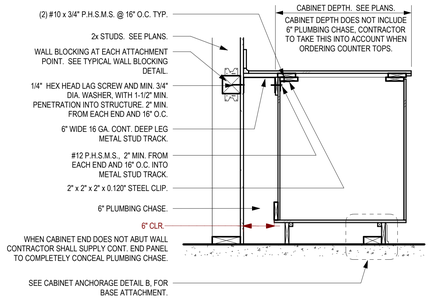
CASEWORK SCHEDULE COMMENTS

1 ALTERNATE #1. REFER TO DEMOLITION AND NEW FLOOR PLANS FOR MORE INFORMATION

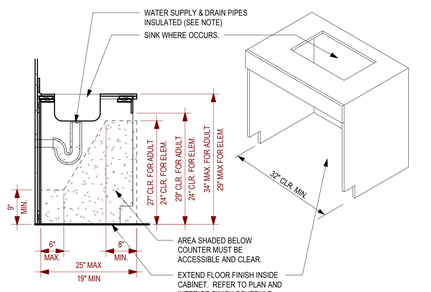
2 PROVIDE 12"H SLOPED TOP



6 COUNTERTOP PROFILES
SCALE: 6" = 1'-0"

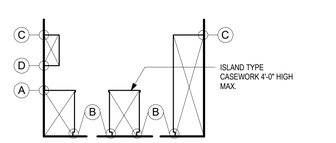


11 CABINET ANCHORAGE @ PLUMBING CHASE (2x STUDS)
SCALE: 1" = 1'-0"

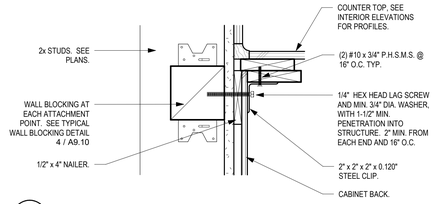


NOTE:
1. WATER SUPPLY & DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES AND SINKS, TYP.

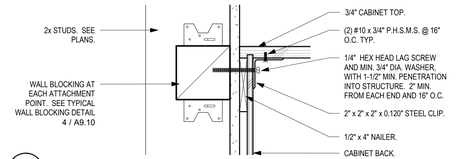
12 ACCESSIBLE CABINET BASE NO DOORS
SCALE: 3/4" = 1'-0"



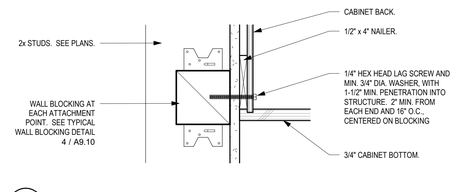
DETAIL LOCATION KEY
Scale: 3" = 1'-0"



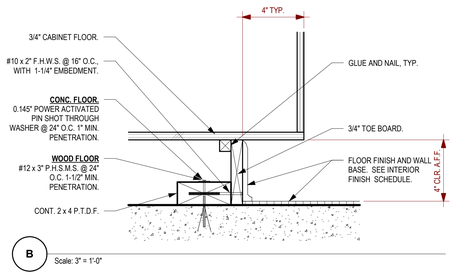
A
Scale: 3" = 1'-0"



C
Scale: 3" = 1'-0"



D
Scale: 3" = 1'-0"



B
Scale: 3" = 1'-0"

NOTE:
1. PAINT ALL ANCHORAGE HARDWARE TO MATCH THE CABINET FACE TO WHICH IT IS BEING ATTACHED. THIS INCLUDES ALL SCREW HEADS.
2. CONTRACTOR SHALL SCRIBE ALL CABINET EDGES TO WALL SURFACE EVERYWHERE CABINET COMES INTO CONTACT WITH WALL. CONTRACTOR SHALL ALSO PROVIDE A TOOLED BEAD OF CLEAR CAULK BETWEEN ALL CABINET EDGES AND WALL.
3. FASTEN CABINETS TOGETHER USING 1-1/4" F.H.W.S. THROUGH CABINET FACE FRAME, TOP AND BOTTOM.

8 CABINET ANCHORAGE DETAILS (2x STUDS)
SCALE: 3" = 1'-0"

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SHEET

CASEWORK SCHEDULE & DETAILS

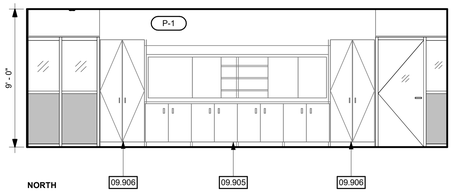
DATE 09/05/2025

JOB # 2024022

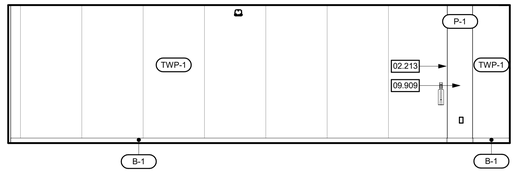
SHEET #

A11.10

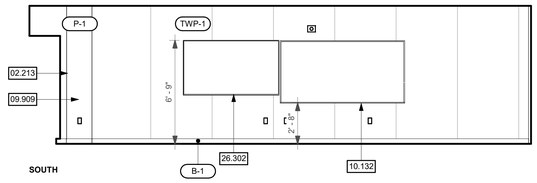
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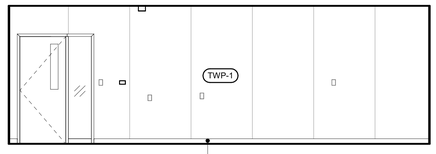
NORTH



EAST

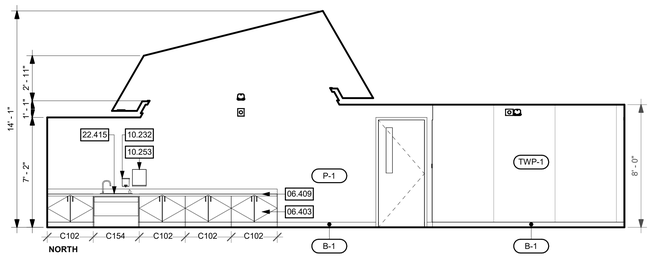


SOUTH

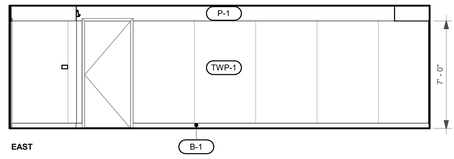


WEST

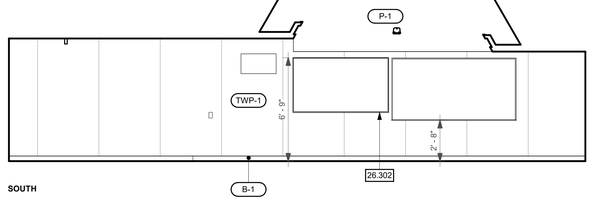
1 TYP. CLASSROOM
SCALE: 1/4" = 1'-0"



NORTH



EAST

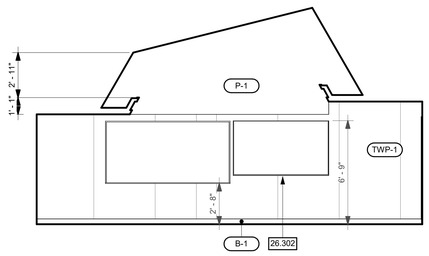


SOUTH

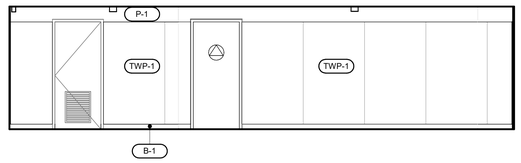


WEST

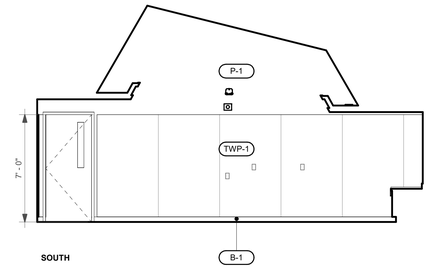
2 KINDERGARTEN K2
SCALE: 1/4" = 1'-0"



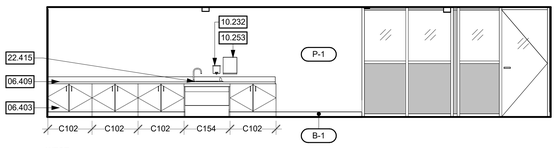
NORTH



EAST



SOUTH



WEST

3 KINDERGARTEN K1
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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

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

D ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

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

INTERIOR ELEVATION KEYNOTES

02.213	(E) INTERIOR COLUMN
06.403	PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 8 / A11.10
06.409	SOLID SURFACE COUNTERTOP, SEE DETAIL 6 / A11.10
09.905	BASE SCOPE: (E) TEACHING WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). REPLACE SLIDING WHITEBOARD WITH SLIDING TACK PANELS. ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PROVIDE ONE FULL-HEIGHT CABINET, SEE CASEWORK SCHEDULE CABINET #402. LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.906	BASE SCOPE: (E) FULL HEIGHT WALL CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). ALTERNATE #1: REMOVE FROM SCOPE NEW PULLS AND INTERIOR SURFACING. PATCH AND PAINT FULL WALL ELEVATION. PROVIDE TWO BASE CABINETS, SEE CASEWORK SCHEDULE CABINET #103, LOCKABLE. BACKING PER DETAIL 4 / A9.10
09.909	PATCH AND PAINT ADJACENT SURFACES AT REMOVED WALL TRIM.
10.132	4' X 8' MAGNETIC MARKERBOARD.
10.232	STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253	FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
22.415	SINK AND BUBBLER, S.P.D.
26.302	85" DISPLAY MONITOR O.F.C.I. AND ELECTRONIC MOUNTING O.F.C.I., SEE DETAIL 1 / A9.10

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. PITTENGER NO. C44940 REG. 01/31/27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

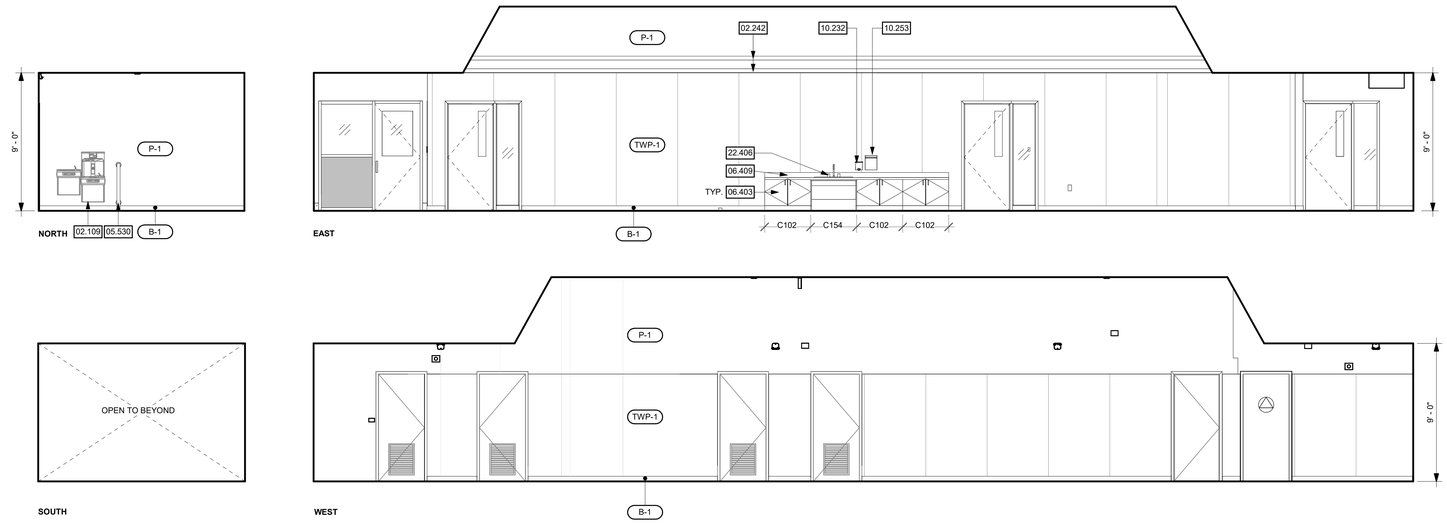
INTERIOR ELEVATIONS

DATE 09/05/2025

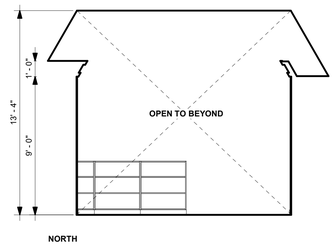
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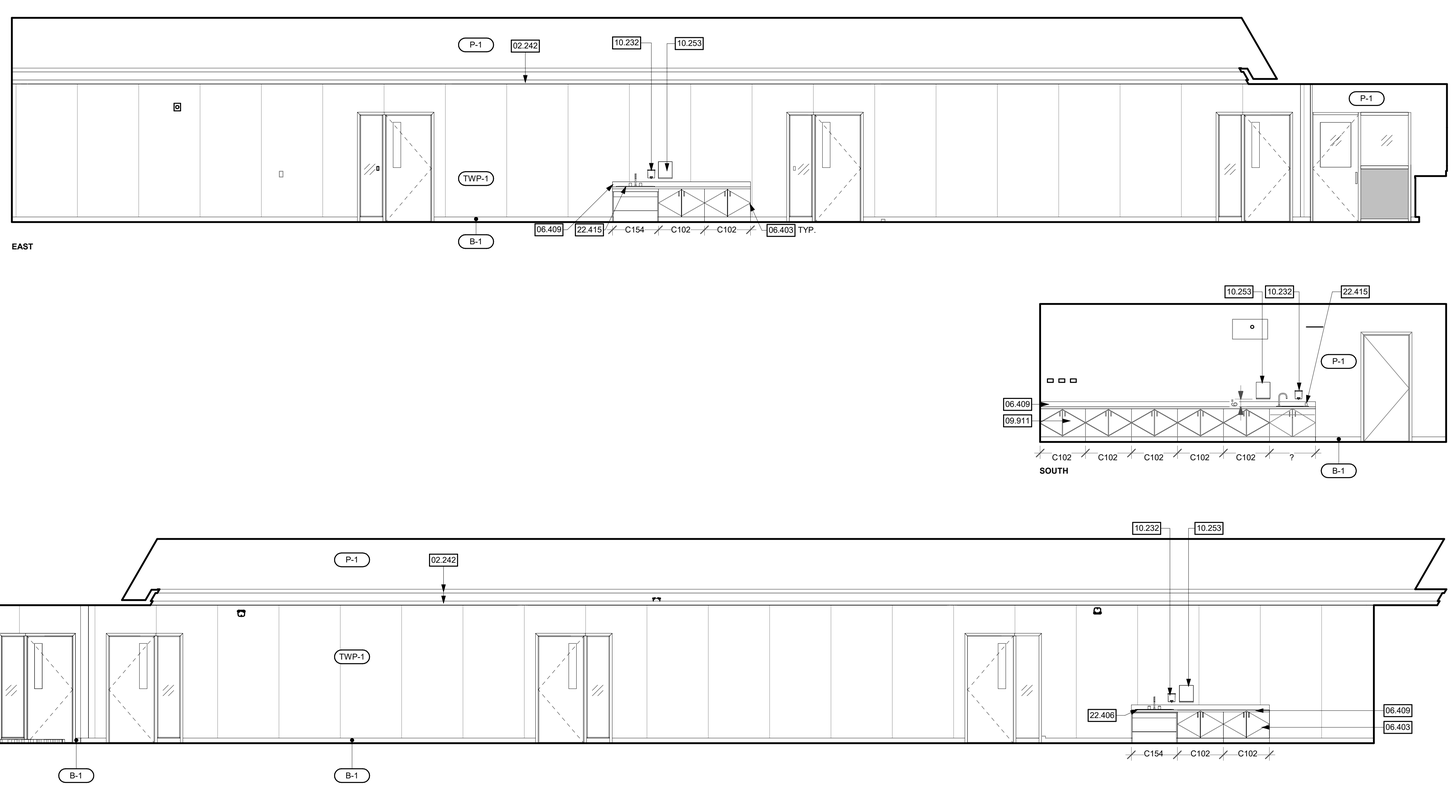
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1 COMMONS 72
SCALE: 1/4" = 1'-0"





2 COMMONS 54
SCALE: 1/4" = 1'-0"

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

D ALL EXPOSED CONDUITS AND PIPES SHALL BE PAINTED U.O.N.

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

INTERIOR ELEVATION KEYNOTES

02.109 (E) INTERIOR DRINKING FOUNTAIN
02.242 (E) WOOD TRIM TO REMAIN.
05.530 1 1/4" DIAMETER STAINLESS STEEL RAILING. SEE DETAIL 3 / A3.12
06.403 PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 8 / A11.10
06.409 SOLID SURFACE COUNTERTOP; SEE DETAIL 6 / A11.10
09.911 (E) BASE HEIGHT CASEWORK, PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). (E) COUNTERTOP TO REMAIN.
10.232 STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253 FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
22.406 SINK, S.P.D.
22.415 SINK AND BUBBLER, S.P.D.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN T. PITTENGER NO. C44940 REN. 07/31/2027 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
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MILESTONES

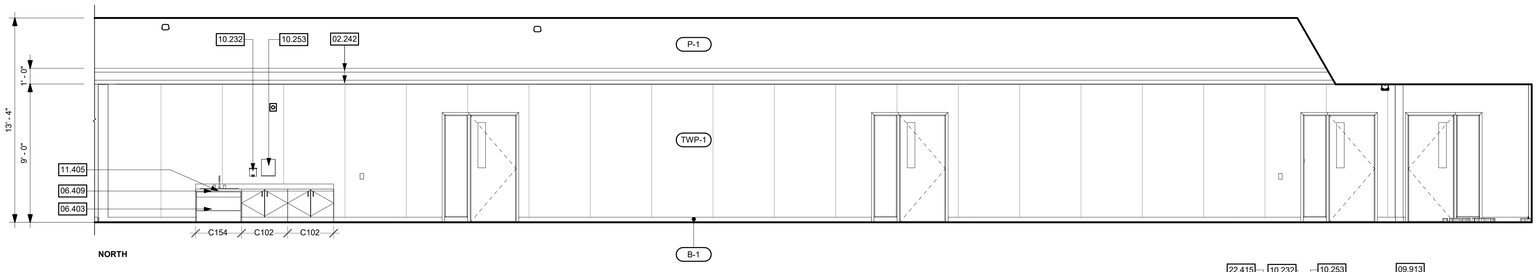
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DSA SUB	09/05/2025

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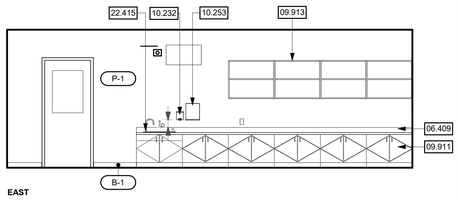
INTERIOR ELEVATIONS

DATE 09/05/2025
JOB # 2024022
SHEET # A12.02

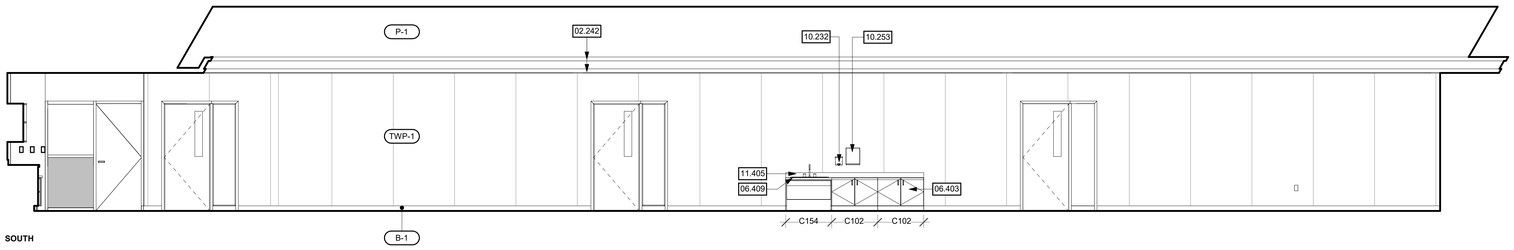
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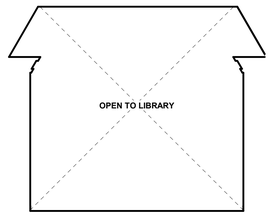
NORTH



EAST

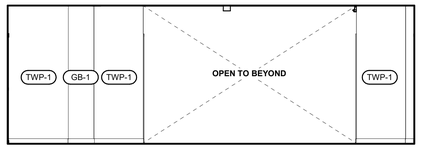


SOUTH



WEST - 1

1-1 **COMMONS 81**
SCALE: 1/4" = 1'-0"



WEST - 1

2 **COMMONS 81**
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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INTERIOR ELEVATION KEYNOTES

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06.403 PLASTIC LAMINATE CLAD ARCHITECTURAL BASE CABINETS WITH ADJUSTABLE SHELVES. FOR MOUNTING DETAIL SEE 8 / A11.10
06.409 SOLID SURFACE COUNTERTOP, SEE DETAIL 6 / A11.10
09.911 (E) BASE HEIGHT CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM). (E) COUNTERTOP TO REMAIN.
09.913 (E) WALL MOUNTED CASEWORK. PROVIDE (N) PULLS. REFINISH EXPOSED SURFACES WITH INTERIOR SURFACING (ARCHITECTURAL FILM).
10.232 STAINLESS STEEL SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 8 / A3.11
10.253 FOLDED PAPER TOWEL DISPENSER, O.F.O.I.
11.405 FABRICATED STAINLESS STEEL HAND SINK
22.415 SINK AND BUBBLER, S.P.D.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH D. PETTY — NO. C43900 — EXP. 08-31-2027 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
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MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

INTERIOR ELEVATIONS

DATE 09/05/2025
JOB # 2024022
SHEET # A12.03

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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 ENGINEERING 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 = 26.6 PSF (WALL ZONE 5), 62.5 PSF (ROOF ZONE 3).

F. SEISMIC DESIGN DATA:
1. Ie = 1.25
2. Fa = 1.2
3. Fv = N/A
4. Ss = 1.998
5. S1 = 0.713
6. SDS = 1.598
7. SD1 = N/A
8. SITE CLASS = D (DEFAULT)
9. SEISMIC DESIGN CATEGORY = D
10. Ip = 1.0
11. ap = PER ASCE 7-16 TABLE 13.6-1
12. Rp = PER ASCE 7-16 TABLE 13.6-1

IV. WOOD

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. GRADE SHALL BE AS FOLLOWS:

1. WALL STUDS = NO 1
2. SILL PLATES = PRESSURE TREATED NO 2
3. BLOCKING AND MISCELLANEOUS = NO 2

C. REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS FIVE PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIC ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, SEOR OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR SEOR.

D. ALL LUMBER IN CONTACT WITH CONCRETE OR CONCRETE MASONRY 0'-8" OR LESS ABOVE THE GROUND SHALL BE PRESSURE TREATED.

E. MAXIMUM MOISTURE CONTENT SHALL BE 15%AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS. ALL OTHER MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF FRAMING. REFER TO ARCHITECTURAL DRAWINGS, PROJECT SPECIFICATIONS AND CLADDING MANUFACTURERS' INFORMATION FOR MORE STRINGENT MOISTURE CONTENT REQUIREMENTS.

F. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.

G. NAILS SHALL BE COMMON WIRE GAGE, UNLESS OTHERWISE NOTED AND CONFORM TO CBC TABLE 2304.10.2. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT ARCHITECT, STRUCTURAL ENGINEER AND DSA.

H. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

I. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

J. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

K. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS, AND RAFTERS PER CBC SECTION 2308.4.6.

IV. CONCRETE

A. MIXING, BATCHING, TRANSPORTING AND PLACING OF ALL CONCRETE SHALL CONFORM TO ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.

B. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED.

C. THE SCHEDULE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SEE THE SPECIFICATIONS FOR ADDITIONAL CONCRETE PROPERTIES.

TYPE	LOCATION	MINIMUM 28-DAY STRENGTH (PSI)	MAXIMUM WEIGHT (PCF)	MAX W/C RATIO
A	SLAB ON GRADE	3000	150	0.45
B	WALL INFILL	3000	150	-

D. CONCRETE CLEAR COVER OVER MILD REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
   a. NO. 5 BARS AND SMALLER = 1-1/2"
   b. NO. 6 BARS AND LARGER = 2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   a. SLABS, WALLS, JOISTS:
4. NO. 11 BARS AND SMALLER = 3/4"
5. NO. 14 BARS AND LARGER = 1-1/2"
   a. BEAMS, COLUMNS:
6. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1-1/2"
   a. SHELLS, FOLDED PLATE MEMBERS:
7. NO. 5 BARS AND SMALLER = 1/2"
8. NO. 6 BARS AND LARGER = 3/4"

E. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS.

F. CONSTRUCTION JOINTS
1. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN BEAMS, WALLS OR SLABS UNLESS APPROVED BY THE SEOR IN WRITING.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TYPICAL CONSTRUCTION JOINT DETAILS.
3. ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL FINISHES AND TREATMENTS.
4. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING ADJACENT CONCRETE.

V. REINFORCING STEEL

A. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 AND ASTM A706 WHERE REQUIRED; ALL BARS TO BE GRADE 60 UNLESS OTHERWISE NOTED.

B. REINFORCING BARS TO BE WELDED SHALL BE ASTM A706.

C. WELDED WIRE REINFORCING SHALL BE ASTM A185.

D. WELDED BAR ANCHORS SHALL BE NELSON D2L DEFORMED BAR ANCHORS PER ICC-ES ESR-2907.

E. DETAIL REINFORCING STEEL BASED ON THE PROJECT REQUIREMENTS, ACI 318, AND ACI 315.

F. TERMINATION OF REINFORCEMENT:
1. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS OR WITH DOWELS EPOXIED INTO EXISTING CONCRETE.
2. PROVIDE DOWELS INTO FOOTINGS BELOW AND SLABS ABOVE AT WALLS AND COLUMNS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT.

G. WHERE A 90 DEGREE, 135 DEGREE OR 180 DEGREE HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING ACI STANDARD HOOK PER DETAIL 2&3/S5.01.

H. SPLICES
1. LAP REINFORCING STEEL AS SPECIFICALLY DETAILED ON THE DRAWINGS. SEE REBAR OFFSET AND LAP SPLICE SCHEDULE IN DETAIL 7/SS.01.
2. UNLESS OTHERWISE NOTED, ALL LAP SPLICES ARE TO BE CLASS B.
3. MECHANICAL SPLICES, IF USED AT CONTRACTOR'S OPTION, SHALL BE ICC-ES APPROVED AND CAPABLE OF DEVELOPING 125% OF THE SPECIFIED MINIMUM YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION.
4. LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS:
   a. TOP HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT SUPPORTS.
   b. BOTTOM HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT MIDSPAN.
   c. VERTICAL REINFORCEMENT AT INSIDE FACE OF WALL AT SUPPORTS.
   d. VERTICAL REINFORCEMENT AT OUTSIDE FACE OF WALL AT MIDHEIGHT OF WALL.

VI. 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 NSPECTOR.
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-3G PER ICC-ES ESR-4057 AS MANUFACTURED BY SIMPSON STRONG TIE
   b. HIT-RE 500 V3 PER ICC-ES ESR-3814 AS MANUFACTURED BY HILTI, INC.
   c. HIT-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.
3. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
REBAR SIZE	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HIT-HY 200 V3	HIT-RE 500 V3	SET-3G
#3	3	3159	3931	4353
#4	4	5615	6053	6984
#5	5	8459	8459	9760
#6	6	11119	11119	12830

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
THREADED ROD DIAMETER (IN)	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HIT-HY 200 V3	HIT-RE 500 V3	SET-3G
3/8	3	3056	3778	4344
1/2	4	5901	6053	6984
5/8	5	8459	8459	9760
3/4	6	11119	11119	12830

5. NO TESTING IS REQUIRED FOR #3 REINFORCING STEEL EPOXIED DOWELS AT CURBS AND HOUSEKEEPING PADS.

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. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
3. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
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 (f'c = 3000 PSI MIN)				
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	3 3/8	5 3/8	90	80
3/4	5 1/4	6	125	150

4. WHERE EXPANSION ANCHORS ARE INSTALLED IN CONTACT WITH WOOD RAMING, 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 (f'c = 3000 PSI MIN)			
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 (f'c = 3000 PSI MIN)			
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 COCNRETE, 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.

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

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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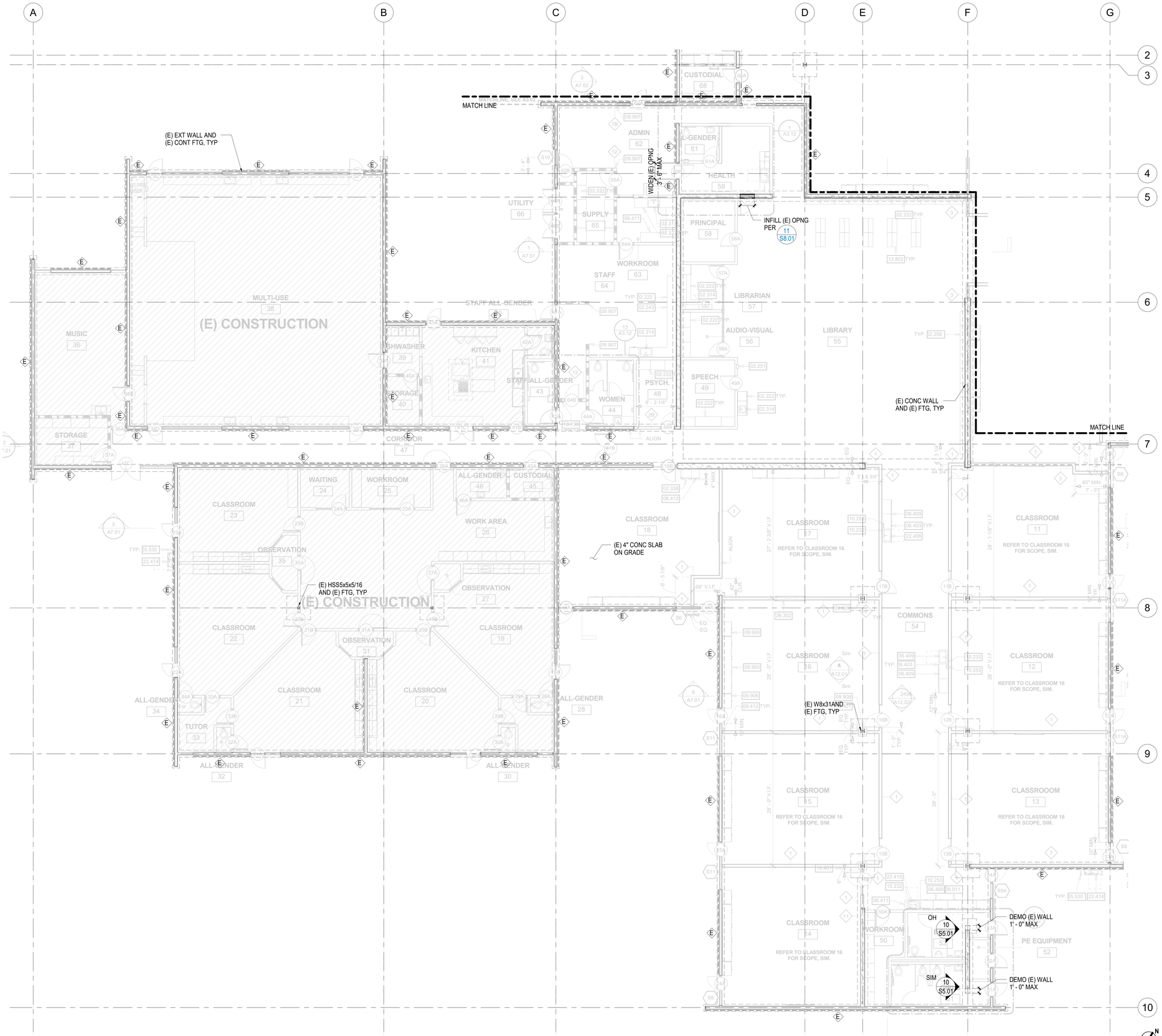
GENERAL NOTES

DATE 09/05/2025

JOB # 2024002

SHEET # S1.00

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1 **PARTIAL FOUNDATION PLAN - PART A**

1/8" = 1'-0"

SHEET NOTES:

1. SEE SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES ON SHEET S1.00.
2. SEE TYPICAL CONCRETE DETAILS ON SHEET S5.01.
3. SEE TYPICAL WOOD FRAMING DETAILS ON SHEETS S8.00 AND S8.01.
4. MARKS (E) INDICATE EXISTING PLYWOOD ON EXISTING STUD WALL.
5. MARKS ● HDUE INDICATE NEW HOLDOWN INSTALLED AT EXISTING PLYWOOD SHEAR WALLS PER DETAIL 12 S8.01
6. FOUNDATION PLAN IS TAKEN IMMEDIATELY ABOVE SLAB-ON-GRADE.
7. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
8. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
9. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
10. WHERE NEW STUD WALL INFILL IS SHOWN, NEW STUDS SHALL MATCH THE SIZE OF EXISTING STUDS.
11. SHORE EXISTING FRAMING ABOVE PRIOR TO ANY DEMO WORK.

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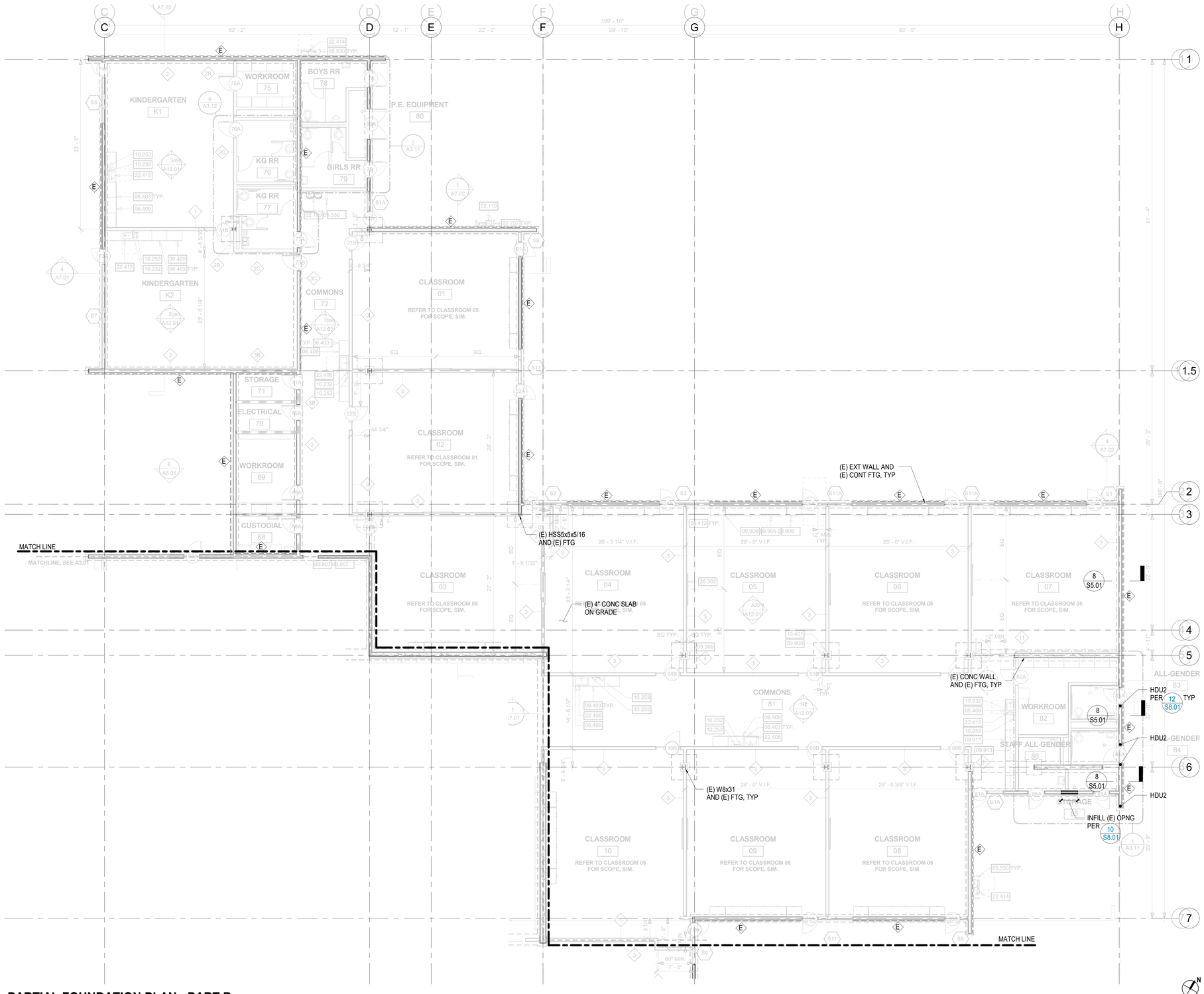
PARTIAL FOUNDATION PLAN - PART A

DATE 09/05/2025

JOB # 2024002

SHEET # S2.01

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1 PARTIAL FOUNDATION PLAN - PART B

SHEET NOTES:

1. SEE NOTES ON SHEET S2.01.

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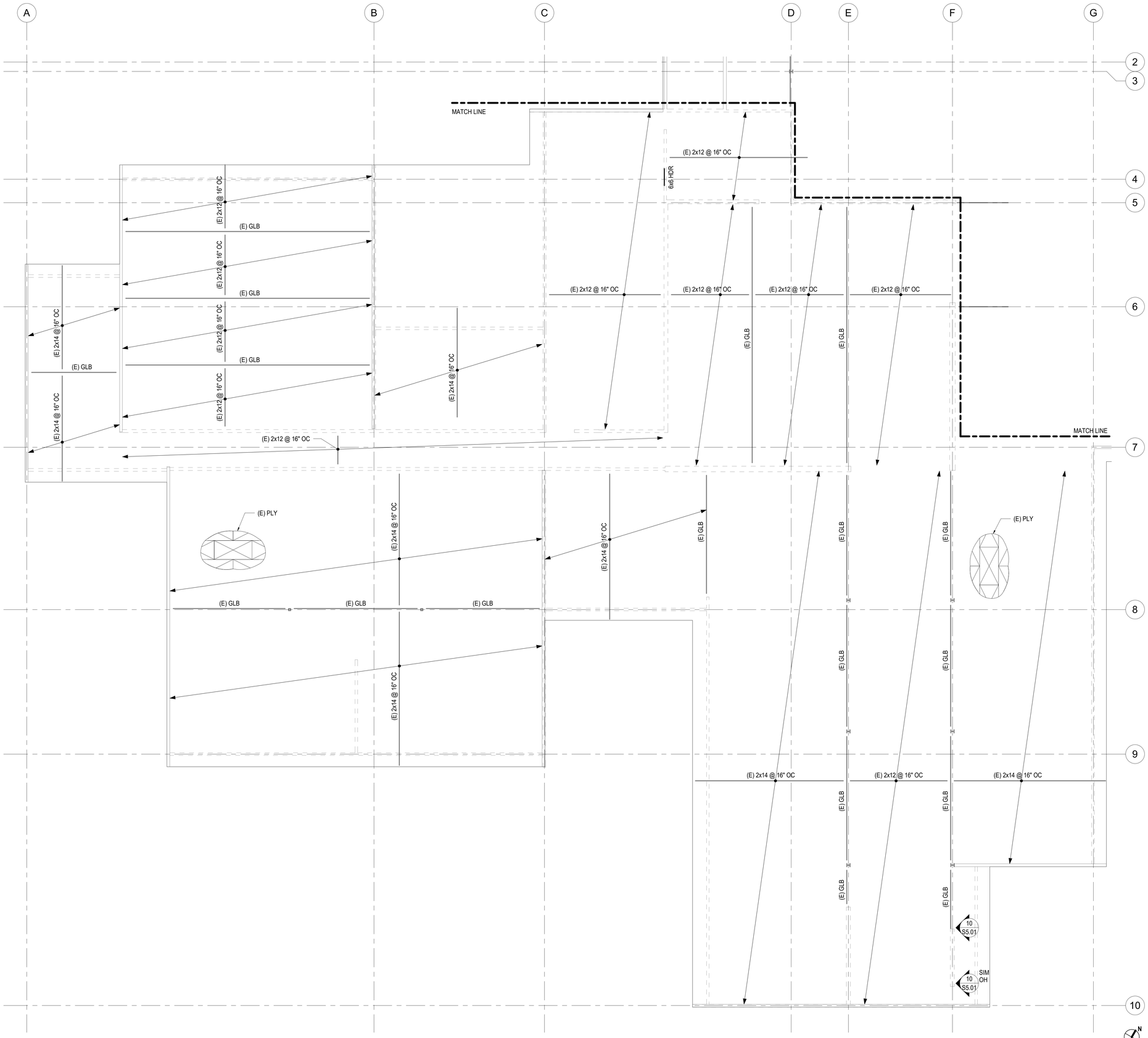
PARTIAL FOUNDATION PLAN - PART B

DATE 09/05/2025

JOB # 2024002

SHEET # S2.02

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1 PARTIAL ROOF FRAMING PLAN - PART A

1/8" = 1'-0"

SHEET NOTES:

1. FOR ROOF DRAINS, OPENING, FASCIA DETAILS, ETC, SEE DRAWINGS OTHER THAN STRUCTURAL.

2. MARK "HDR" INDICATE HEADER BEAM AT OPENING, SIZE SHALL BE PER 5 S8.01 UON ON PLAN.

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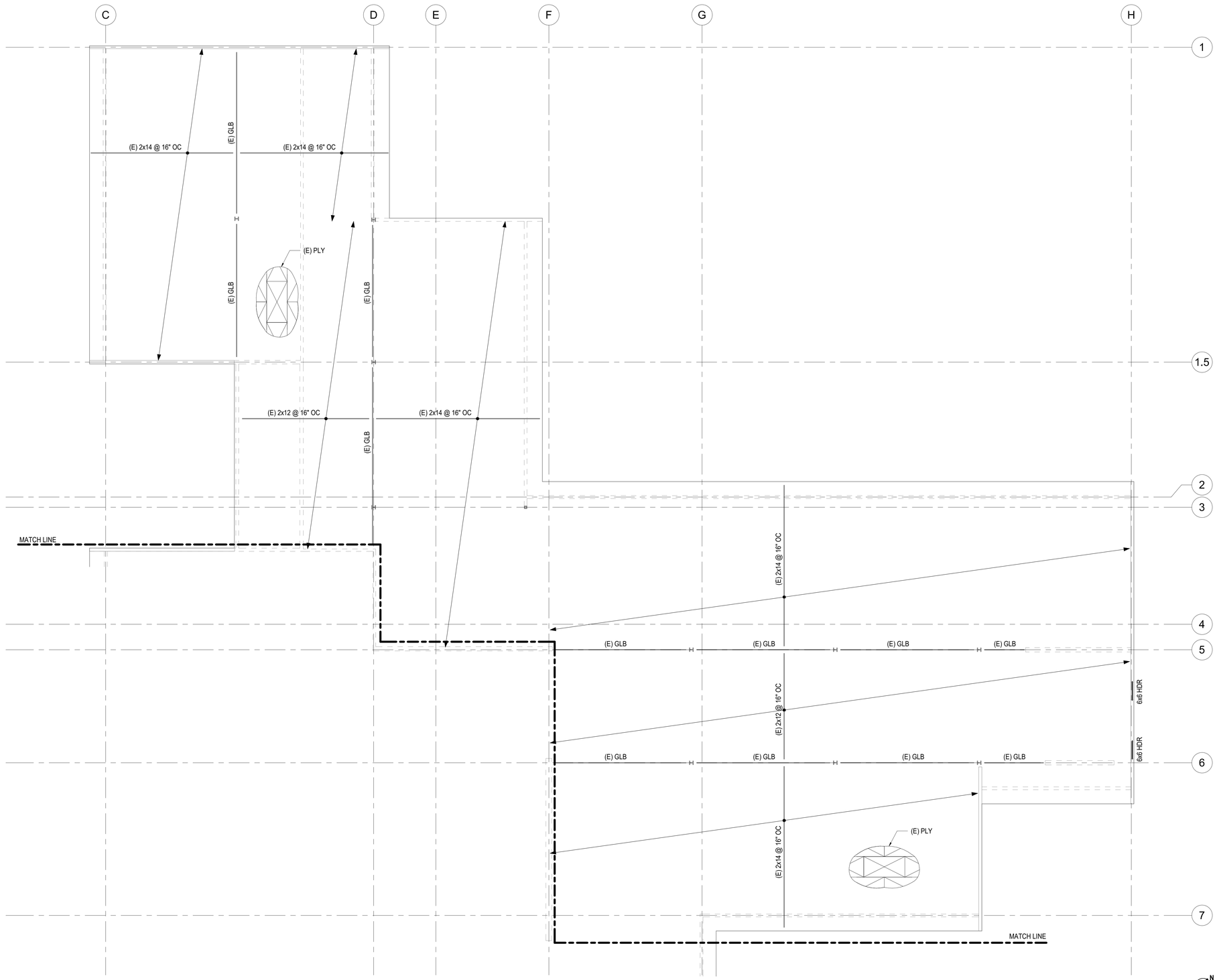
PARTIAL ROOF FRAMING PLAN - PART A

DATE 09/05/2025

JOB # 2024002

SHEET # S2.03

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1 **PARTIAL ROOF FRAMING PLAN - PART B**

1/8" = 1'-0"

SHEET NOTES:

1. SEE NOTES ON SHEETS S2.01 AND S2.03.

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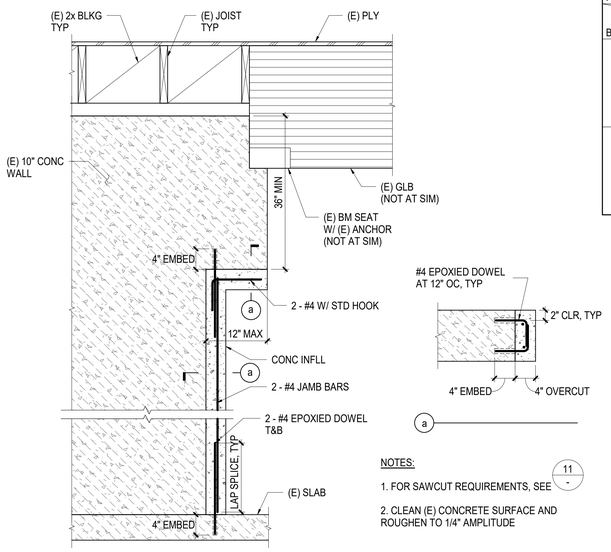
PARTIAL ROOF FRAMING PLAN - PART B

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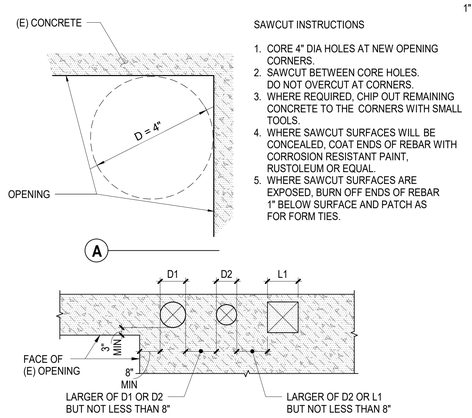
NOTES:

1. FOR SAWCUT REQUIREMENTS, SEE 11 -

2. CLEAN (E) CONCRETE SURFACE AND ROUGHEN TO 1/4" AMPLITUDE

10 OPENING IN EXISTING CONCRETE WALL

1" = 1'-0"



SAWCUT INSTRUCTIONS

1. CORE 4" DIA HOLES AT NEW OPENING CORNERS.
2. SAWCUT BETWEEN CORE HOLES. DO NOT OVERCUT AT CORNERS.
3. WHERE REQUIRED, CHIP OUT REMAINING CONCRETE TO THE CORNERS WITH SMALL TOOLS.
4. WHERE SAWCUT SURFACES WILL BE CONCEALED, COAT ENDS OF REBAR WITH CORROSION RESISTANT PAINT, RUSTOLEUM OR EQUAL.
5. WHERE SAWCUT SURFACES ARE EXPOSED, BURN OFF ENDS OF REBAR 1" BELOW SURFACE AND PATCH AS FOR FORM TIES.

B SPACING REQUIREMENTS FOR MULTIPLE CONC WALL AND SLAB PENETRATIONS 6" DIA. AND 6" SQ. OR LESS

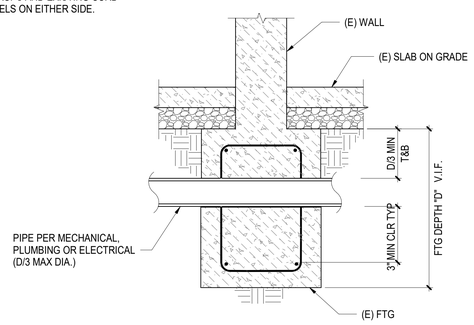
11 SAWCUT AND PENETRATIONS IN (E) CONCRETE WALLS

1/2" = 1'-0"

NOTES:

1. PRIOR TO ANY CORING THRU THE EXISTING FOOTING, SCAN FOR EXISTING REBAR LOCATIONS.

2. PIPE SHALL BE LOCATED 3" MIN CLEAR FROM EXISTING REBARS, STIRRUPS AND EXISTING CURB DOWELS ON EITHER SIDE.



12 EXISTING FOOTING PENETRATION DETAIL

NTS

CONCRETE STRENGTH		3000 PSI			
REINFORCING CONFIGURATION		CASE 1		CASE 2	
BAR SIZE \ BAR LOCATION		TOP	OTHER	TOP	OTHER
"CLASS A LAP SPLICE AND STRAIGHT DEVELOPMENT LENGTH, Ld (INCHES)"	#3	22	17	32	25
	#4	29	22	43	33
	#5	36	28	54	41
	#6	43	33	64	50
	#7	63	48	94	72
CLASS B LAP SPLICE (INCHES)	#3	28	22	42	32
	#4	37	29	56	43
	#5	47	36	70	54
	#6	56	43	84	64
	#7	81	63	122	94

NOTES:

1. VALUES IN THE TABLE ARE FOR NON-EPOXY COATED GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE.

2. CASES 1 AND 2 ARE DEPENDENT ON THE TYPE OF CONCRETE ELEMENT, CONCRETE COVER AND CENTER-TO-CENTER SPACING OD REINFORCING BARS. THEY ARE DEFINED AS:
   CASE 1:
   BEAM AND COLUMNS:
   - CONCRETE COVER >= db
   - CENTER-TO-CENTER SPACING >= 2x db, AND
   - STIRRUPS OR TIES PROVIDED THROUGHTOUT ld

   OTHER ELEMENTS:
   - CONCRETE COVER >= db AND
   - CENTER-TO-CENTER SPACING >= 3x db

   CASE 2:
   BEAM AND COLUMNS:
   - CONCRETE COVER < db
   - CENTER-TO-CENTER SPACING < 2x db

   OTHER ELEMENTS:
   - CONCRETE COVER < db AND
   - CENTER-TO-CENTER SPACING < 2x db

3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW. OTHER BAR INCLUDE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF RESH CONCRETE BELOW BAR.

4. PROVIDE CLASS B LAP SPLICES, U.O.N.

5. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE VALUES IN THIS TABLE BY 1.3.

6. WHERE ld IS NOT OBTAINABLE DUE TO SPACE RETRICTIONS, PROVIDE A STANDARD HOOK PER DETAIL 2 -

7. FOR EPOXY-COATED BARS, MULTIPLY THE VALUE IN THIS TABLE BY 1.5.

8. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS SHALL BE STAGGERED. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION; SPLICES SHALL BE OFFSET BY THE MAXIMUM OF 12 INCHES AND 12 BAR DIAMETERS.

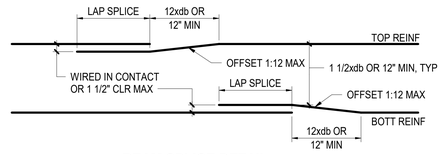
9. SEE SHOTCRETE NOTES FOR LAP SPLICES IN SHOTCRETE WALLS.

10. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES. MECHANICAL COUPLERS SHALL HAVE AN APPROVED ICC REPORT AND RESIST 125% OF REINFORCING BAR YIELD STRENGTH.

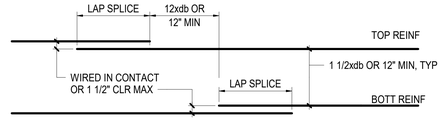
11. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, SPLICE LENGTH SHALL BE THE MAXIMUM OF ld OF THE LARGER BAR AND THE LAP SPLICE LENGTH OF THE SMALLER BAR.

12. LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORT, U.O.N.

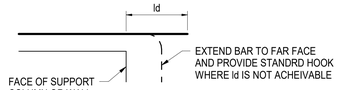
13. NON-CONTACT LAP SPLICED BARS SHALL BE SPLACED AT LEAST 1 ½" AND NO MORE THAN THE MAXIMUM OF ONE-FIFTH OF THE LAP SPLICE AND 6".



a BEAM SPLICE DETAIL



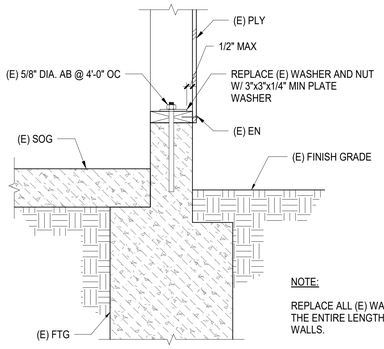
b STRAGGERED WALL OR SLAB SPLICE DETAIL



c BEAM AT SUPPORT

7 LAP SPLICE + STRAIGHT BAR DEVELOPMENT LENGTHS

NTS

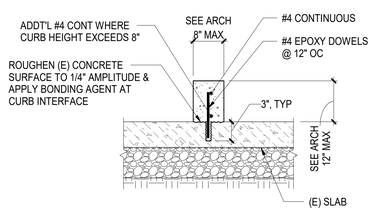


NOTE:

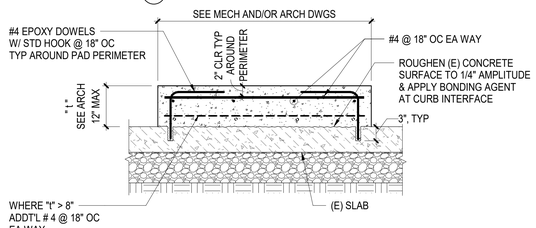
REPLACE ALL (E) WASHERS ALONG THE ENTIRE LENGTH OF (E) SHEAR WALLS.

8 ANCHOR BOLT WASHER REPLACEMENT

1 1/2" = 1'-0"



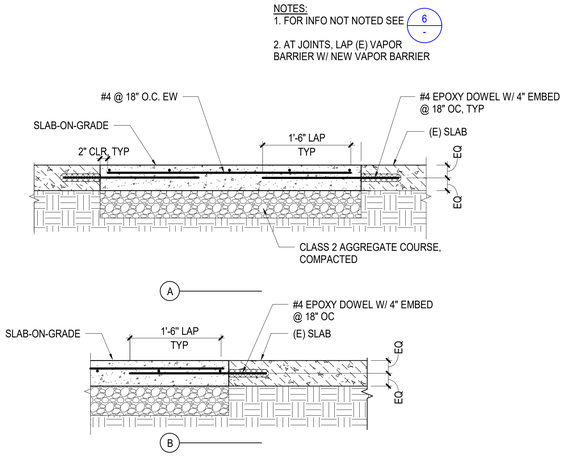
B CURB AT (E) SLAB-ON-GRADE



A HOUSEKEEPING PAD AT (E) SLAB-ON-GRADE

9 CURBS AND HOUSEKEEPING PADS AT (E) SLAB-ON-GRADE

NTS



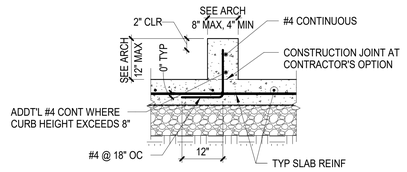
NOTES:

1. FOR INFO NOT NOTED SEE 6 -

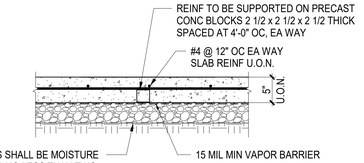
2. AT JOINTS, LAP (E) VAPOR BARRIER W/ NEW VAPOR BARRIER

5 SLAB-ON-GRADE AT (E) SLAB

NTS



a CURB AT SLAB-ON-GRADE



SUBGRADE SOILS SHALL BE MOISTURE CONDITIONED TO NO LESS THAN TWO PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT,AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION (ASTM D-1557). PROVIDE 4" ,NON-RECYCLED, CLASS 2 AGGREGATE BASE (COMPACTED TO A MINIMUM OF 95 PERCENT RELATIVE COMPACTION) OVER THE SUBGRADE SOILS UNDER CONCRETE SLAB.

FOR SLAB JOINT AT (E) S.O.G. SEE 5 -

NOTE:

OVER EXCAVATE TO REMOVE ANY CRACKED OR LOOSE EXISTING MATERIAL BELOW SLAB AND FOOTING EXCAVATIONS. BACKFILL WITH LEAN CONCRETE f'c=1500 PSI @ 28 DAYS AS REQUIRED.

6 SLAB-ON-GRADE DETAIL

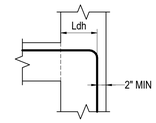
NTS

HOOKED BAR DEVELOPMENT LENGTH, Ldh			
BAR SIZE	CONCRETE STRENGTH		
	3000 PSI	4000 PSI	5000 PSI
#3	0' - 8"	0' - 7"	0' - 6"
#4	0' - 11"	0' - 9"	0' - 9"
#5	1' - 2"	1' - 0"	0' - 11"
#6	1' - 4"	1' - 2"	1' - 1"
#7	1' - 7"	1' - 5"	1' - 3"

NOTES:

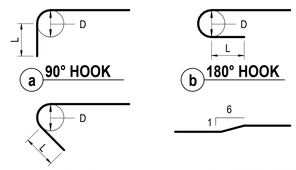
1. THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE ARE FOR NORMALWEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, THE HOOKED BAR DEVELOPMENT LENGTH SHALL NOT BE LESS THEN 10xdb, 7 ½" AND 1.3xLdh PER THE TABLE ABOVE.

2. THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE APPLY TO MEMBERS WITH:
   a. SIDE COVER EQUAL TO AT LEAST 2 ½".
   b. END COVER EQUAL TO AT LEAST 2".



2 HOOKED BAR DEVELOPMENT LENGTHS

NTS



MAIN REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2

STIRRUP + TIE REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	1 1/2	3	3
#4	2	3	3
#5	2 1/2	3 3/4	3 3/4
#6	4 1/2	9	4 1/2
#7	5 1/4	10 1/2	5 1/4

3 TYPICAL BAR HOOKS

NTS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER GHAIAN AKALAL NO. 5504 STRUCTURAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

TYPICAL CONCRETE DETAILS

DATE 09/05/2025

JOB # 2024002

SHEET # S5.01

4/16/2026 9:33:26 PM

FASTENING SCHEDULE		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust)	3-16d common (3 1/2" x 0.163") 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate	3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3"14 gage staples, 7/16" crown; or	End nail
	3-10d common (3 1/2" × 0.148"); or 4-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
WALL		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3 1/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 1/2"x0.163"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2 " × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail

FASTENING SCHEDULE (CONT.)			
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER		SPACING AND LOCATION
FLOOR			
21. Joist to sill, top plate, or girder	3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown		Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2" × 0.131"); or floor 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown		6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")		Face nail
24. 2" subfloor to joist or girder	2-16d common (3 1/2" × 0.162")		Face nail
25. 2" planks (plank & beam – floor & roof)	2-16d common (3 1/2" × 0.162")		Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")		32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown		24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown		Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown		Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown		End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown		Each end, toenail
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing			
		Edges (inches)	**Intermediate supports (inches)**
30. 3/8" – 1/2"	6d common or deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed (2 1/2" × 0.113") (roof)	6	12
	2 3/8" × 0.113" nail (subfloor and wall)	6	12
	1 3/4" 16 gage staple, 7/16" crown (subfloor and wall)	4	8
	2 3/8" × 0.113" nail (roof)	4	8
	1 3/4" 16 gage staple, 7/16" crown (roof)	3	6
31. 19/32" – 3/4"	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed 2 1/2" x 0.131"); (roof) or RSRS-01 (2 3/8" x 0.113") nail (roof)[d]	6	12
	2 3/8" × 0.113" nail; or 2" 16 gage staple, 7/16" crown	4	8
32. 7/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6	12
Other exterior wall sheathing			
33. 1/2" fiberboard sheathing[b]	1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown	3	6
34. 25/32" fiberboard sheathing[b]	1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown	3	6
Wood structural panels, combination subfloor underlayment to framing			
35. 3/4" and less	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113")	6	12
36. 7/8" – 1"	8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131")	6	12
37. 1 1/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6	12
Panel siding to framing			
38. 1/2" or less	6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6	12
39. 5/8"	8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2 " × 0.113")	6	12
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing [a]			
		Edges (inches)	**Intermediate supports (inches)**
40. 1/4 "	4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072")	6	12
41. 3/8 "	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6	12

For SI: 1 inch = 25.4 mm.

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. Nails for wall sheathing are permitted to be common, box or casing.
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.
d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

12 NAILING SCHEDULE

NTS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER GHAIAN AKALAL NO. 5594 STRUCTURAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

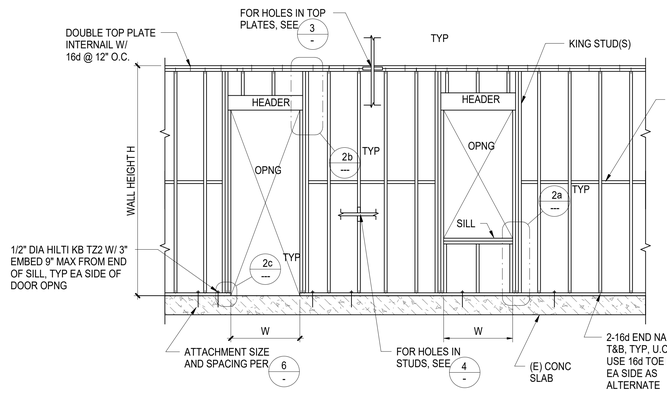
NAILING SCHEDULE

DATE 09/05/2025

JOB # 2024002

SHEET # S8.00

4/16/2026 9:33:27 PM



NON-BEARING WALL STUD SCHEDULE		
WALL HEIGHT	STUD SIZE	SPACING
H < 17'-0"	2x6	12"
H < 14'-6"	2x6	16"
H < 10'-0"	2x4	16"

b

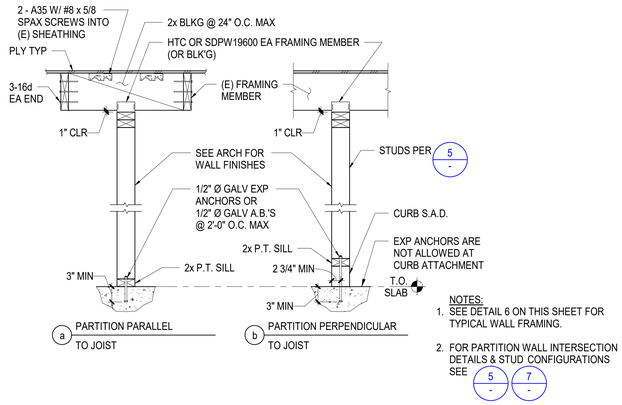
NON-BEARING WALL SCHEDULE AT OPENINGS				
OPENING WIDTH	KING STUD(S)	HEADER DEPTH	BEARING STUD(S)	SILL
W< 4'-6"	2x	4x	1-2x	2-2x
W< 6'-0"	2-2x	6x	2-2x	2-2x

a

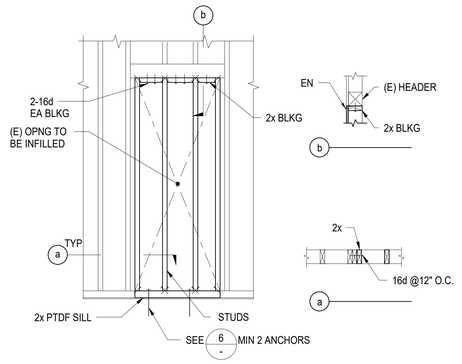
NOTE:
STUD, SILL, AND HEADER WIDTHS TO MATCH WALL FRAMING SIZE.

5 TYPICAL NON-BEARING WALL FRAMING

NTS

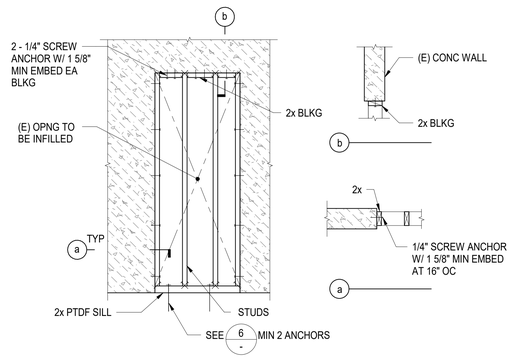


NOTES:
1. SEE DETAIL 6 ON THIS SHEET FOR TYPICAL WALL FRAMING.
2. FOR PARTITION WALL INTERSECTION DETAILS & STUD CONFIGURATIONS SEE 5 7



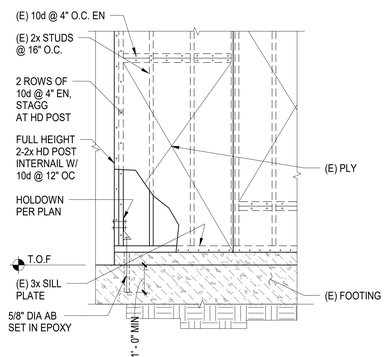
10 IN-FILL OF (E) OPENINGS IN STUD WALLS

NTS



11 IN-FILL OF (E) OPENINGS IN CONCRETE WALLS

NTS

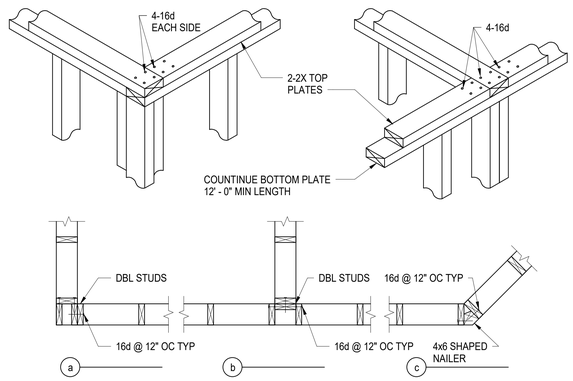


12 HOLDOWN AT EXISTING SHEARWALL

NTS

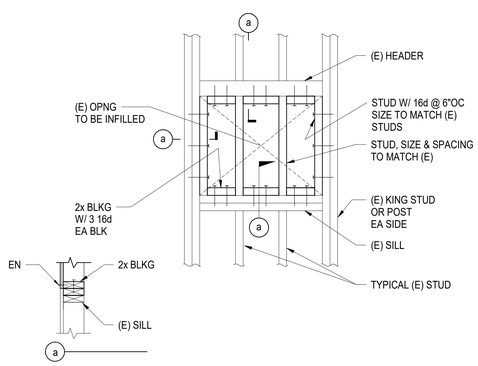
6 NON-BEARING WALL PARTITION

NTS



7 WALL INTERSECTIONS

NTS

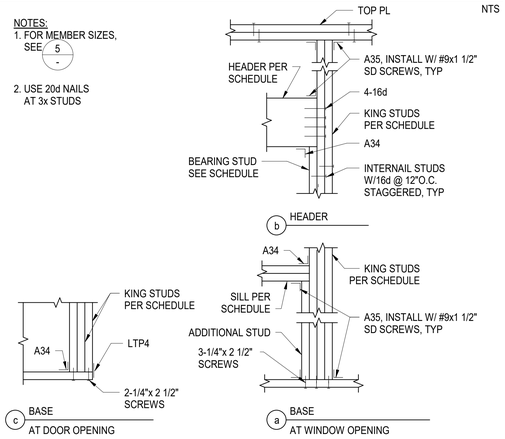


8 INFILL OF (E) OPENING IN WALLS

NTS

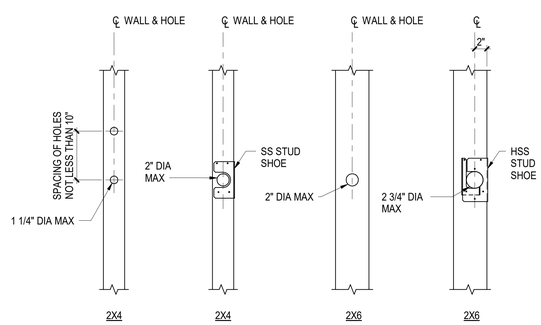
2 WALL OPENING

NTS



3 TOP PLATE PENETRATIONS

NTS

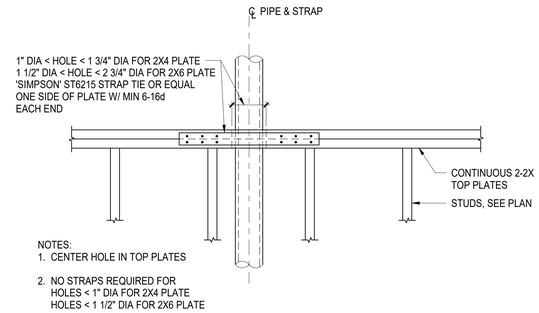


4 PENETRATIONS IN STUDS

NTS

1 TYPICAL WALL FRAMING

NTS



NOTES:
1. CENTER HOLE IN TOP PLATES
2. NO STRAPS REQUIRED FOR HOLES < 1" DIA FOR 2X4 PLATE HOLES < 1 1/2" DIA FOR 2X6 PLATE

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER GRAHAM AKALA'A NO. S504 STRUCTURAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FRAMING DETAILS

DATE 09/05/2025
JOB # 2024002
SHEET # S8.01

4/16/2026 9:33:27 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. 9"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.

MECHANICAL ABBREVIATIONS - General

ABBREVIATION	DESCRIPTION
(D)	DROP
(E)	EXISTING
(FA), (FB)	FROM ABOVE, FROM BELOW
(N)	NEW
(R)	RISE
(TA), (TB)	TO ABOVE, TO BELOW
AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP IN INCHES WATER COLUMN
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATTEN	ATTENTUATORS
BD, BDO	BALANCE DAMPER, BACKDRAFT DAMPER
BF	BELLOW FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTUH, BTU(H)	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CEF	CEILING EXHAUST FAN
CFF	CAPPED FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER
CONFIG	CONFIGURATION
CONN, CONT	CONNECTION, CONTINUATION
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CT	COOLING TOWER
CV	CHECK VALVE
Cv	FLOW COEFICIENT
DB	DRY BULB
DEG	DEGREE
DISCH	DISCHARGE
DL	DOOR LOUVER
DLA, DIAMETER SYMBOL	DIAMETER, DIAMETER OR PHASE
DN	DOWN
dP	DIFFERENTIAL PRESSURE
DPR	DAMPER
DR	DRAIN
DSA	DIVISION OF THE STATE ARCHTIECTS
DTR	DOWN THROUGH ROOF
DWG	DRAWING
EA, EAD	EXHAUST AIR, EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB

MECHANICAL ABBREVIATIONS - General

ABBREVIATION	DESCRIPTION
EEOR	ELECTRICAL ENGINEER OF RECORD
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	EXHAUST HOOD
ELEC	ELECTRICAL
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EW, EWB, EWT	ENTERING WATER, ENTERING WET BULB, ENTERING WATER TEMPERATURE
EXH, EXT	EXHAUST, EXPANSION TANK
F	DEGREES FAHRENHEIT
FCV	FLOW CONTROL VALVE
FF, FFE, FLR	FINISHED FLOOR OR FLY FAN, FINISHED FLOOR ELEVATION, FLOOR
FIN	FINISH
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FV	FACE VELOCITY
GA	GAUGE
GAL, GPF, GPH, GPM	GALLONS, GALLONS PER FLUSH, GALLONS PER HOUR, GALLONS PER MINUTE
GALV, GI	GALVANIZED, GALVANIZED IRON
GRD	GRADE
HC	HEATING COIL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTG, HTR	HEATING, HEATER
HW	HOT WATER
Hz	HERTZ
IN (")	INCH
IPLV	INTEGRATED PART LOAD VALUE
KW, KWH	KILOWATTS, KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD, LDB	LOUVERED DOOR, LEAVING DRY BULB IN DEGREES FAHRENHEIT
LPA	LOCKED ROTOR AMPS
LVR	LOUVER
LWB, LWT	LEAVING WET BULB IN DEGREES FAHRENHEIT, LEAVING WATER TEMPERATURE
MAT, MAU	MIXED-AIR TEMPERATURE, MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MC, MCC	MOTOR CONTROLLER, MOTOR CONTROL CENTER
MCA	MINIMUM CIRCUIT CAPACITY
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEOR	MECHANICAL ENGINEER OF RECORD
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NC, NO	NORMALLY CLOSED, NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA, OAD	OUTSIDE AIR, OUTSIDE AIR DAMPER
OCC	OCCUPANSY SENSOR
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSIONS
OD	OVERFLOW DRAIN
OFCI, OFOI	OWNER FURNISHED & CONTRACTOR INSTALLED, OWNER FURNISHED & OWNER INSTALLED
OH	OVERHEAD
OV	OUTLET VELOCITY
PD, PG	PRESSURE DROP, PRESSURE GAUGE
PH OR DIAMETER SYMBOL	PHASE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRV	PRESSURE REDUCING VALVE
PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
QTY	QUANTITY
RA, RAD	RETURN AIR, RETURN AIR DAMPER
REFRIG	REFRIGERANT
REFRIG	ROOF EXHAUST FAN
REQD	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RL	REFRIGERANT LOAD
RLA	RATED LOAD AMPS OR RUNNING LOAD AMPERES
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RV	RELIEF VENTILATOR
S & R, SA	SUPPLY AND RETURN, SUPPLY AIR
SB	SECURITY BARS
SCR	STEAM CONDENSATE RETURN
SD	STORM DRAIN, SPLITTER DAMPER, SCHEMATIC DESIGN PHASE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS	SENSIBLE
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SUPPLY FAN
SM	SHEET METAL
SOV	SHUT OFF VALVE
SP, SPD	STATIC PRESSURE, STATIC PRESSURE DROP
SPEC	SPECIFICATION
SQ FT or FT2, SQ IN or IN2	SQUARE FEET, SQUARE INCHES
SS	STAINLESS STEEL
STD	STANDARD
STRUC	STRUCTURAL
T.C.C, TCP, TCV	TEMPERATURE CONTROLS CONTRACTOR, TEMPERATURE CONTROL PANEL, TEMERPATURE CONTROL
TE	THERMAL EFFICIENCY
TEMP	TEMPERATURE
TFH	THEMRAL FLUID HEATER
TOC, TOD	TOP OF CONCRETE, TOP OF DUCT
TP, TSP	TRAP PRIMER, TOTAL PRESSURE, TOTAL STATIC PRESSURE,
TYP	TYPICAL
UCD	UNDER CUT DOOR
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VD	VOUME DAMPER
VF	VENTILATION FAN
VFC	VARIABLE FREQUENCEY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
VLV, VO	VALVE, VALVED OUTLET
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
W	WATTS
W, W/O	WITH, WITHOUT
WB	WET BULB
WMS	WIRE MESH SCREEN
WP, WPD	WORKING PRESSURE, WATER PRESSURE DROP IN FEET OF WATER COLUMN
WT	WEIGHT

TABLE OF BRANCH DUCT SIZES TO INDIVIDUAL DIFFUSERS, GRILLES, & REGISTERS (3) (4)

CFM	DUCT SIZE (INCHES) (1)			
	ROUND	SQUARE	RECTANGULAR	MIN. AREA (SQ. IN.) (2)
0-100	6"	6x6	6x6	36
101-210	8"	8x8	8x6	48
211-380	10"	10x10	10x8	80
381-600	12"	12x12	12x10, 16x8	120
601-900	14"	14x14	14x12, 16x10, 20x8	160
901-1300	16"	16x16	16x14, 18x12, 22x10	220
1301-1800	18"	18x18	18x16, 20x14, 22x12	264
1801-2400	20"	20x20	22x16, 24x14, 30x12	340

NOTES:
1. SIZE OF BRANCH DUCT IF SHOWN ON PLANS OR FROM ABOVE TABLE IS NOT THE INLET SIZE TO DIFFUSER, GRILLE OR REGISTER. PROVIDE PLENUM BOX. SEE NOTE (3)
2. MINIMUM DUCT AREA TO BE USED FOR ALTERNATE DUCT SIZES (DIFFERENT THAN THE TABLE) WHEN REQUESTED BY CONTRACTOR FOR SA, RA, AND EA
3. SEE 1/MD-5.3 FOR PLENUM BOX AT DIFF/REG/GRILLE AND FOR DETAIL OF DUCT BRANCH CONNECTION TO OUTLET (AND INLET) PLENUMS AT DIFF/REG/GRILLE
4. ALL DUCT SIZES SHALL BE SHOWN CLEARLY ON THE CONTRACTORS SUBMITTAL DRAWINGS. SHOW SIZE OF EACH DUCT ON THE PLANS AT EACH DUCT LOCATION

MECHANICAL SYMBOLS - General

SYMBOL	SYMBOL DESCRIPTION
	3 WAY MODULATING CONTROL VALVE
	3 WAY TWO POSITION CONTROL VALVE
	3 WAY VALVE
	AUTOMATIC AIR VENT
	AUTOMATIC FLOW CONTROL
	BALANCING VALVE
	BOTTOM CONNECTION
	BUTTERFLY VALVE
BPT	BYPASS TIMER
	CALIBRATED BALANCE VALVE
	CHECK VALVE
	CIRCUIT SETTER VALVE
DS	DYNAMIC SENSOR
	EXPANSION JOINT
F	FIRE DAMPER
FS	FIRE/SMOKE DAMPER
	FLEXIBLE CONNECTOR
	FLOAT & THERMOSTATIC TRAP
	FLOW LIMITING VALVE
FS	FLOW SWITCH
	GAGE COCK
	GATE VALVE
	GLOBE VALVE
H X	HUMIDISTAT
	INVERTED BUCKET TRAP
	LIMIT OF DEMOLITION
	MANUAL AIR VENT
	MODULATING CONTROL VALVE
	PIPE BREAK
	PIPE CAP
	PIPE DOWN
	PIPE GUIDE
	PIPE UP
	POINT OF CONNECTION
	PRESSURE REGULATING VALVE
	PRESSURE RELIEF VALVE
	REDUCER
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
	SOLENOID VALVE
	STRAINER
TS X	TEMPERATURE SENSOR
	TEST PLUG
	THERMOMETER
T X	THERMOSTAT
	TWO POSITION CONTROL VALVE
	UNION
	VALVE IN RISE/DROP
	VALVE IN VALVE BOX

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 TRANSITION 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. IOR 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 AIR IN SECTION, SUPPLY AIR DROP, SUPPLY AIR RISE
		RETURN AIR, RETURN AIR IN SECTION, RETURN AIR DROP, RETURN AIR RISE
		EXHAUST AIR, EXHAUST AIR IN SECTION, EXHAUST AIR DROP, EXHAUST AIR 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

M - MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M001	HVAC LEGEND AND NOTES
M201	HVAC DEMO FLOOR PLAN - BUILDING A PART A
M202	HVAC DEMO FLOOR PLAN - BUILDING A PART B
M203	HVAC NEW FLOOR PLAN - BUILDING A PART A
M204	HVAC NEW FLOOR PLAN - BUILDING A PART B
M501	HVAC DETAILS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — JOHN C. LY — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

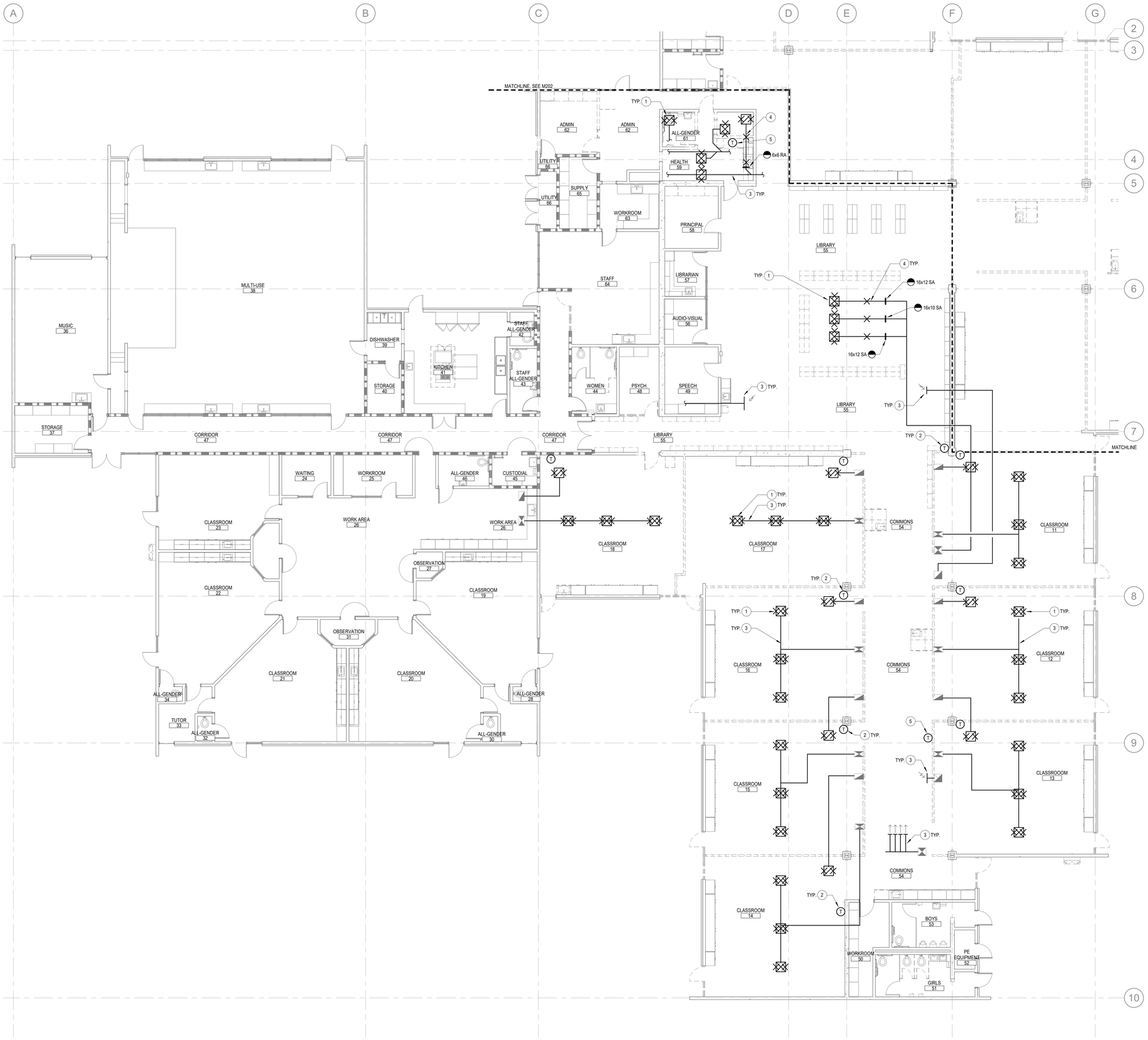
HVAC LEGEND AND NOTES

DATE 09/05/2025

JOB # 2024022

SHEET # M001

4/16/2026 8:01:36 AM



1 M201 HVAC DEMO FLOOR PLAN - PART A

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

DEMOLITION SHEET NOTES:

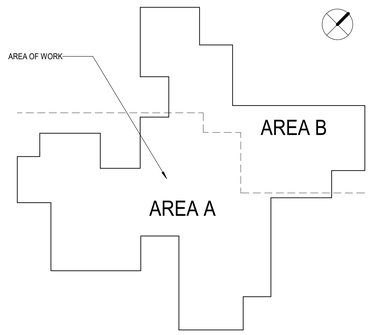
A. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

B. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUT" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

DEMOLITION KEY NOTES:

1. REMOVE EXISTING DIFFUSER/REGISTER/GRILLE IN CEILING. PREPARE EXISTING DUCT FOR FUTURE RECONNECTION.
2. EXISTING THERMOSTAT TO REMAIN, UNLESS OTHERWISE NOTED.
3. EXISTING EQUIPMENT, DUCTWORK, DIFFUSER, REGISTER, GRILLE, ETC. TO REMAIN.
4. REMOVE EXISTING DUCTWORK.
5. RELOCATE EXISTING THERMOSTAT AND CONTROL WIRING, REFER TO SHEET M203.

KEY MAP



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PROJECT

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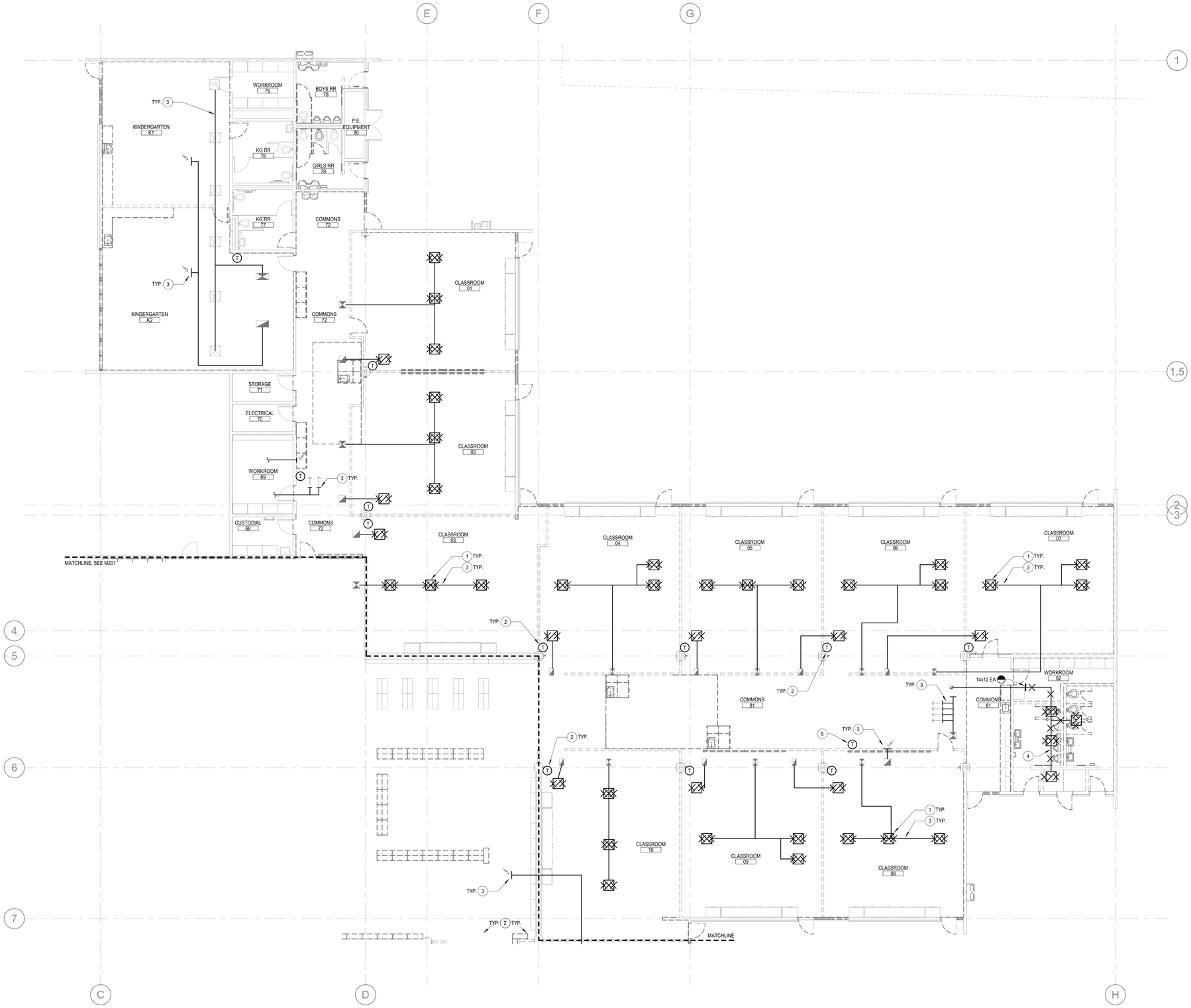
HVAC DEMO FLOOR PLAN - BUILDING A PART A

DATE 09/05/2025

JOB # 2024022

SHEET # M201

4/16/2026 8:01:38 AM



1 M202 HVAC DEMO FLOOR PLAN - PART B

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

DEMOLITION SHEET NOTES:

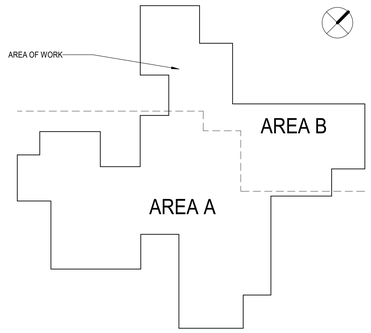
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B. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUT" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

DEMOLITION KEY NOTES:

1. REMOVE EXISTING DIFFUSER/REGISTER/GRILLE IN CEILING. PREPARE EXISTING DUCT FOR FUTURE RECONNECTION.
2. EXISTING THERMOSTAT TO REMAIN, UNLESS OTHERWISE NOTED.
3. EXISTING EQUIPMENT, DUCTWORK, DIFFUSER, REGISTER, GRILLE, ETC. TO REMAIN.
4. REMOVE EXISTING DUCTWORK.
5. RELOCATE EXISTING THERMOSTAT AND CONTROL WIRING, REFER TO SHEET M204.

KEY MAP



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PROJECT

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RC - LY/SL/DL — PM - DESIGN TEAM
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REGISTERED PROFESSIONAL ENGINEER — JOHN C.E. YOUNG — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

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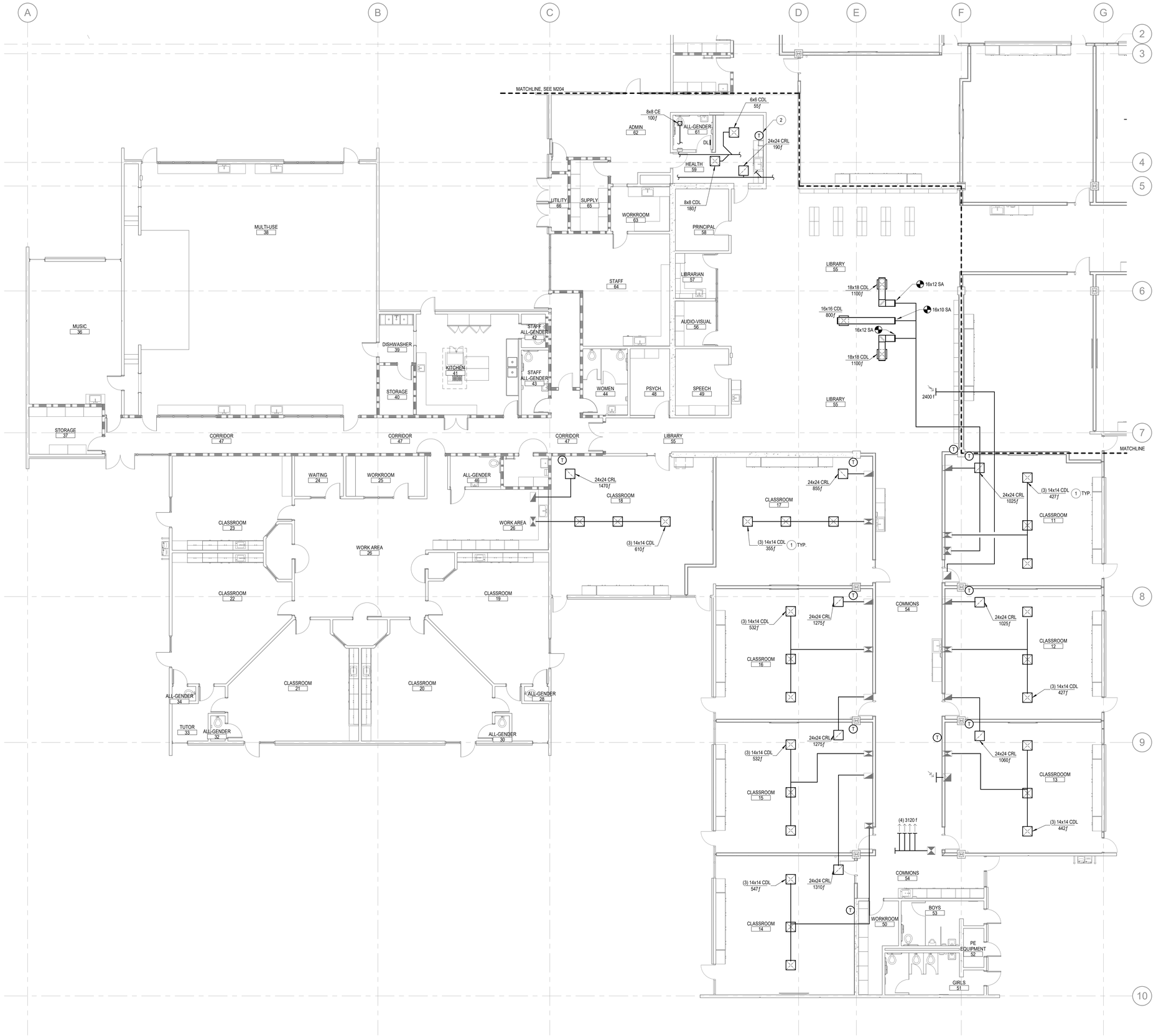
HVAC DEMO FLOOR PLAN - BUILDING A PART B

DATE 09/05/2025

JOB # 2024022

SHEET # M202

4/16/2026 8:01:39 AM



1 M203 HVAC NEW FLOOR PLAN - PART A

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

SHEET NOTES:

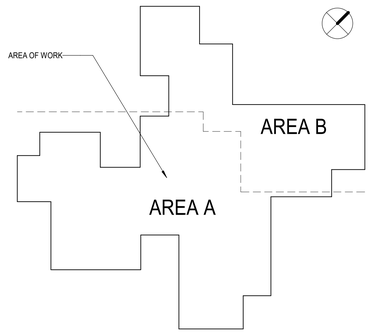
A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS/REGISTERS/GRILLES/FANS/ACCESS PANELS. TYP.
B. FOR TYPICAL LAY-IN DIFFUSER/GRILLE MOUNTING, REFER TO DETAIL 3/M501.
C. FOR TYPICAL CONCEALED DUCT SUPPORT, REFER TO DETAIL 2/M501.
D. WHERE NOTED W/ "DL", PROVIDE DOOR LOUVER WITH MIN. 0.5 SF FREE AREA. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

KEY NOTES:

1 CONNECT EXISTING DUCT TO NEW DIFFUSER, REFER TO DETAIL 3/M501, TYP. MODIFY EXISTING DUCT AS REQUIRED TO MAKE NEW CONNECTION . GRILLES TO BE RE-BALANCED AT COMPLETION OF WORK.

2 RELOCATED THERMOSTAT, COORDINATE EXACT LOCATION WITH ARCHITECT AND DISTRICT.

KEY MAP



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PROJECT

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OAK GROVE SCHOOL DISTRICT

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MECHANICAL
STATE OF CALIFORNIA

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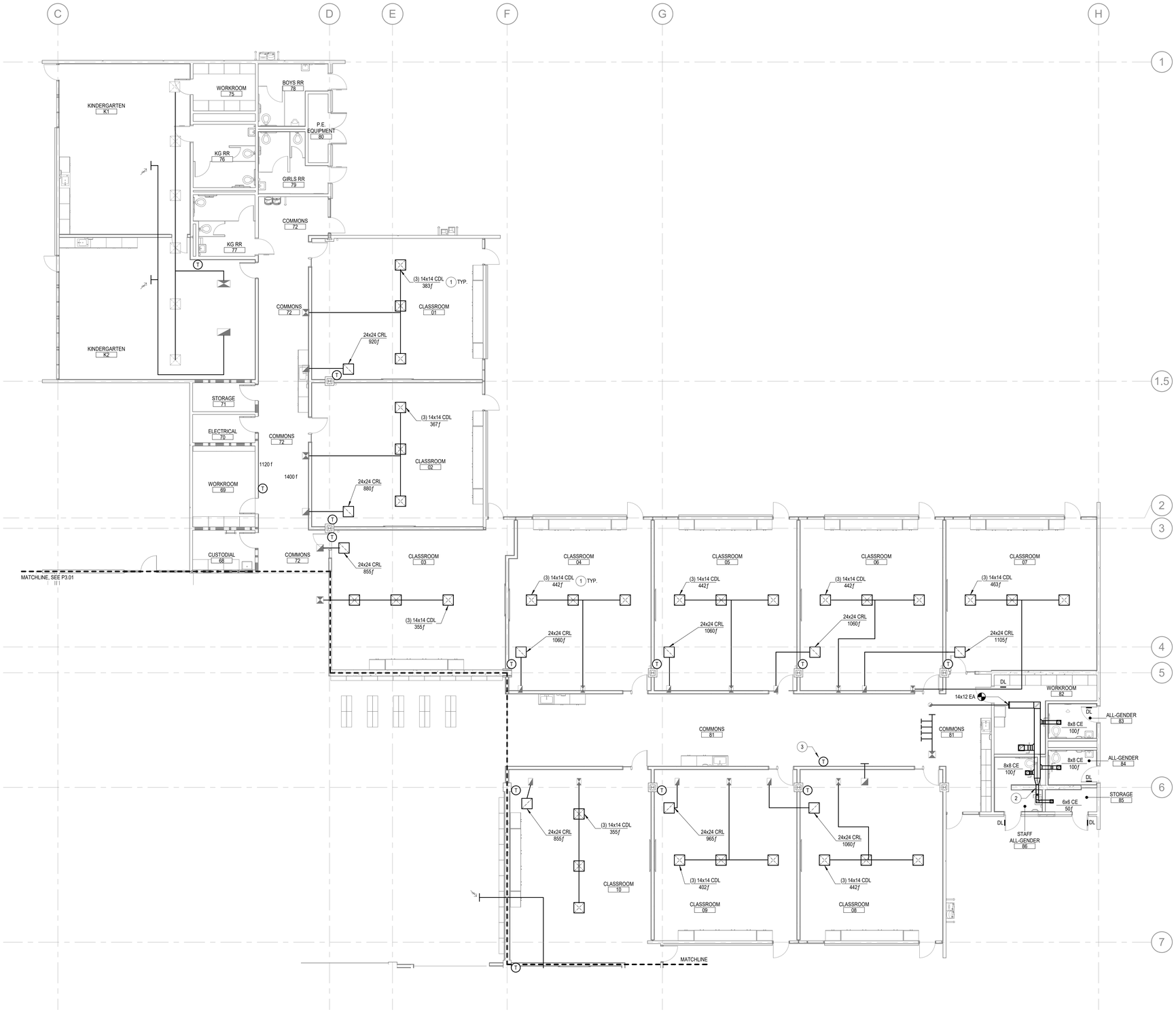
SD	01/23/2025
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DSA SUB	09/05/2025

SHEET

HVAC NEW FLOOR PLAN - BUILDING A PART A

DATE 09/05/2025
JOB # 2024022
SHEET # M203

4/16/2026 8:01:39 AM



1 M204 HVAC NEW FLOOR PLAN - PART B

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

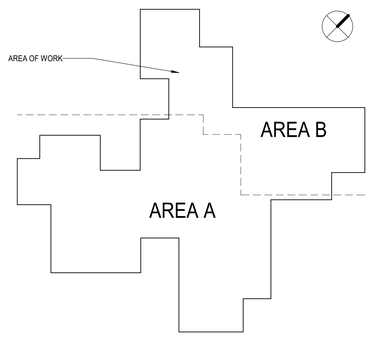
SHEET NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS/REGISTERS/GRILLES/FANS/ACCESS PANELS. TYP.
B. FOR TYPICAL LAY-IN DIFFUSER/GRILLE MOUNTING, REFER TO DETAIL 3/M501.
C. FOR TYPICAL CONCEALED DUCT SUPPORT, REFER TO DETAIL 2/M501.
D. WHERE NOTED W/ "DL", PROVIDE DOOR LOUVER WITH MIN. 0.5 SF FREE AREA. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

KEY NOTES:

1. CONNECT EXISTING DUCT TO NEW DIFFUSER, REFER TO DETAIL 3/M501, TYP. MODIFY EXISTING DUCT AS REQUIRED TO MAKE NEW CONNECTION . GRILLES TO BE RE-BALANCED AT COMPLETION OF WORK.
2. REUSE EXISTING OPENING IN CONCRETE WALL.
3. RELOCATED THERMOSTAT, COORDINATE EXACT LOCATION WITH ARCHITECT AND DISTRICT.

KEY MAP



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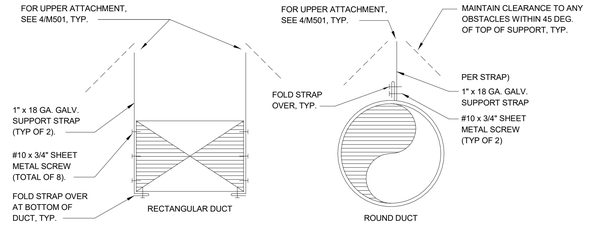
SHEET # M204

4/16/2026 8:01:40 AM

NOT USED

SCALE : NONE

1
M501



NOTES:

1) SUPPORT STRAP SPACING SHALL BE MAX. 8'-0" O.C. APPLIES TO RECTANGULAR DUCTWORK LESS THAN 6 SQFT CROSS SECTIONAL AREA, AND ROUND DUCTWORK UP TO 26" DIA. AND WEIGH 20 PLF OR LESS. NO SEISMIC BRACING REQUIRED.

2) PROVIDE HANGERS/SUPPORTS IN COMPLIANCE WITH SPEC SECTION 238000.

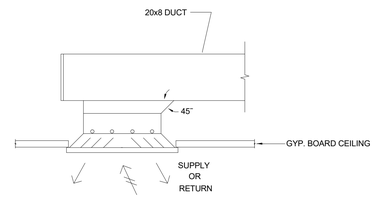
3) ALL DUCTWORK ON THIS PROJECT IS MAX. 16"x12" DUCT (1.33 SF) AND MAX. 15 LBS/LINEAR FT.

4) SEISMIC BRACING NOT REQUIRED PER CBC 1617A.1.25 EXCEPTION 2: DESIGN FOR SEISMIC FORCES AND RELATIVE DISPLACEMENT OF SECTION 13.3 SHALL NOT BE REQUIRED WHERE PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER DUCTS OR MECHANICAL COMPONENTS OR TO PROTECT THE DUCTS IN THE EVEN OF SUCH IMPACT, THE DISTRIBUTION SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE; AND HVACR DUCTS HAVE A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET (0.557 m2) AND WEIGHT 20 LB/FT (292 N/m) OR LESS.

TYPICAL CONCEALED DUCT SUPPORT

SCALE : NONE

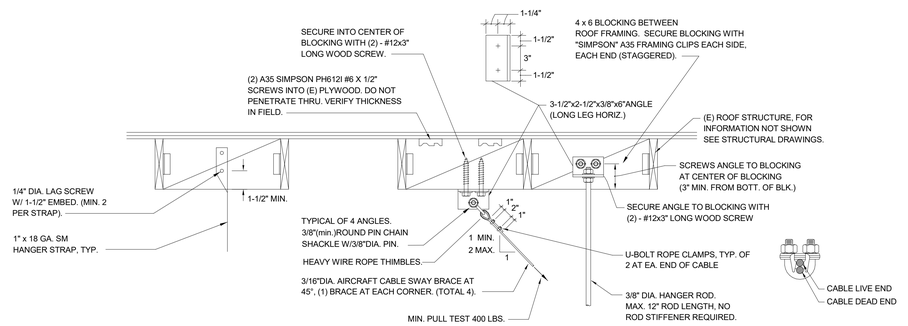
2
M501



TYP. DIFFUSER/GRILLE MOUNTING

SCALE : NONE

3
M501



UPPER ATTACHMENT MOUNTING

SCALE : NONE

4
M501

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HVAC DETAILS

DATE 09/05/2025

JOB # 2024022

SHEET # M501

4/16/2026 8:01:40 AM

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
	CO	FLOOR OR GRADE CLEANOUT
	CO	ABOVE FLOOR OR ABOVE GRADE CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GCK	GAGE COCK
	GSCK, PC	GAS COCK, PLUG COCK
	-	GATE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	-	PIPE BREAK, PIPE CONTINUATION
	-	PIPE CAP
	-	PIPE DOWN
	-	PIPE GUIDE
	-	PIPE UP
	-	POINT OF CONNECTION/POINT OF DISCONNECT (POC/POD)
	-	PRESSURE RELIEF VALVE
	-	REDUCER
	-	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 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	TP	TRAP PRIMER
DFU	DRAIN FIXTURE UNIT	TOF	TOP OF FOOTING
DF	DRINKING FOUNTAIN	TYP	TYPICAL
DL	DEVELOPED LENGTH	UN	UNION
FA	FROM (LEVEL OR ROOF) ABOVE	UNO	UNLESS NOTED OTHERWISE
FB	FROM (LEVEL OR UG) BELOW	UG	UNDERGROUND
FD	FLOOR DRAIN	US	UTILITY SINK
FCO	FLOOR CLEANOUT	WH	WALL HYDRANT
FLR	FLOOR	WC	WATER CLOSET
FS	FLOOR SINK	WSFU	WATER SUPPLY FIXTURE UNITS
GCO	GRADE CLEANOUT		

PLUMBING SYSTEMS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
CD	CD	CONDENSATE DRAIN
CW	CW	DOMESTIC COLD WATER
D	D	DRAIN
HW	HW	DOMESTIC HOT WATER
HWR	HWR	DOMESTIC HOT WATER RETURN
NGLP	NGLP	NATURAL GAS - LOW PRESSURE
NGMP	NGMP	NATURAL GAS - MEDIUM PRESSURE
NGHP	NGHP	NATURAL GAS - HIGH PRESSURE
OD	OD	OVERFLOW DRAIN
PCD	PCD	PUMPED CONDENSATE DRAIN
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
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. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
12. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
13. 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.
14. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
15. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
16. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
17. 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.
18. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
19. PROVIDE FUSION JOINT POLYPROPYLENE PIPING ON ALL GREASE WASTE, ACID WASTE & ACID VENT PIPING. INSTALL AND TEST PER MANUFACTURER GUIDELINES.
20. 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.
21. PROVIDE INSULATION ON ALL CONDENSATE DRAINS INSIDE BUILDING.
22. 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS CBC 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

P - PLUMBING SHEET LIST

Sheet Number	Sheet Name
P0.01	PLUMBING COVER SHEET
P0.02	PLUMBING EQUIPMENT & FIXTURE SCHEDULE
P2.01	PLUMBING DEMO FLOOR PLAN - BUILDING A PART A
P2.02	PLUMBING DEMO FLOOR PLAN - BUILDING A PART B
P3.01	PLUMBING NEW FLOOR PLAN - BUILDING A PART A
P3.02	PLUMBING NEW FLOOR PLAN - BUILDING A PART B
P3.10	PLUMBING DEMO ENLARGED FLOOR PLANS
P3.11	PLUMBING NEW ENLARGED FLOOR PLANS
P5.01	PLUMBING DETAILS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — JOHN C. E. CHIANG — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

PLUMBING COVER SHEET

DATE 09/05/2025

JOB # 2024022

SHEET #

P0.01

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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 Z595SSS-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 Z595SSS-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. 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.	"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"	-	-
	S-1	SINK COUNTER MOUNTED COLD WATER ONLY W/BUBBLER	"ELKAY" MODEL CDKAD251765C, 17" FRONT TO BACK, 25" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, SIDE LEDGES WITH SELF- RIM. PROVIDE REAR DRAIN LOCATION, VANDAL RESISTANT BACKING PLATE AT BUBBLER AND FAUCET FOR VANDAL RESISTANT PINS. BACKING PLATE SHALL BE 14 GAUGE SS FORMED AS A CHANNEL	"ELKAY" MODEL LKD280513LC GOOSENECK FAUCET, "ELKAY" LK1141A BUBBLER, VANDAL RESISTANT. PROVIDE VANDAL PROOF PIN (VPP) IN BUBBLER AND FAUCET, ARRANGE TO MATE WITH SLOTS IN SINK. PROVIDE 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LKAD18, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	ARRANGE FINAL INSTALLATION OF SINK SUCH THAT THE BUBBLER WILL BE WITHIN 5" OF THE EDGE OF THE COUNTERTOP. INSTALL FAUCET IN CENTER OF SIDE SPLASH. PROVIDE SLOT FOR BUBBLER AT 15° ANGLE FROM FRONT OF THE SINK, AND INSTALL THE BUBBLER AT 15° ANGLE	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	S-2	SINK COUNTER MOUNTED HOT AND COLD WATER	"ELKAY" MODEL LRADQ2221965, 19" FRONT TO BACK, 22" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE SINGLE FAUCET HOLE. PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR	"CHICAGO" ECAST MODEL 50-E35VPABCP GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR AND RIGID/SWING FAUCET. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"ELKAY" MODEL LKAD35, OFFSET CRUMB CUP STRAINER WITH REMOVABLE BASKET AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.		1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-3	SINK COUNTER MOUNTED COLD WATER	"ELKAY" MODEL LRADQ2221965, 19" FRONT TO BACK, 22" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE SINGLE FAUCET HOLE. PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR	"CHICAGO" ECAST MODEL 350-E35ABCP GOOSENECK FAUCET, "HAWS" 5054LF BUBBLER, VANDAL RESISTANT. PROVIDE VANDAL PROOF PIN (VPP) IN BUBBLER AND FAUCET, ARRANGE TO MATE WITH SLOTS IN SINK. PROVIDE 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LKAD18, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.		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"	-	-
	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

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

UNIT	LOCATION	"EEMAX" MODEL NO.	△ T TEMP. RISE AT FLOW RATE	SET MAX TEMP	VOLTAGE PHASE AMPS	DETAIL	NOTES
IEWH 1	STAFF RR RM-86	EEMAX SPEX4208T 4.1KW	56.0F / 0.5GPM	105°F	208V/1Ø 20AMPS	5 P5.01	THERMOSTATIC, TURN ON @ 0.2GPM, 4LBS

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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

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

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

PLUMBING EQUIPMENT & FIXTURE SCHEDULE

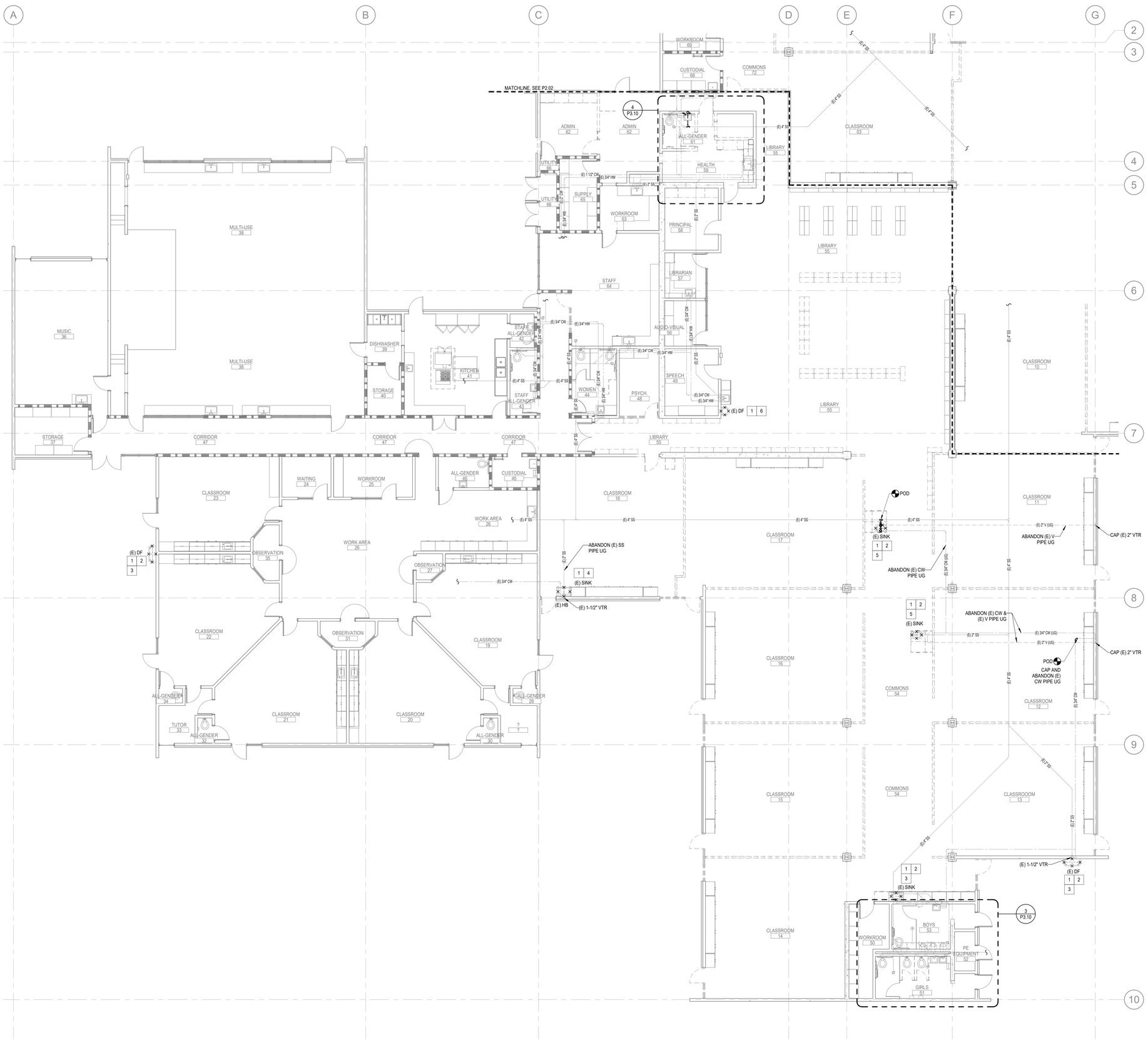
DATE 09/05/2025

JOB # 2024022

SHEET #

P0.02

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1 P2.01 PLUMBING DEMO FLOOR PLAN - PART A

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

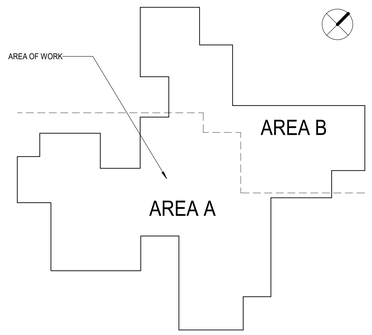
PLUMBING DEMO SHEET NOTES:

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.

PLUMBING DEMO KEY NOTES:

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 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 OR DRAIN IN ITS ENTIRETY. INLCUDING ANY RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, CAP UNUSED PIPING ABOVE, BELOW OR BEHIND ARCHITECTURAL FINISHES. SEE ARCHITECTURAL DEMO SHEETS FOR MORE INFORMATION.
5. REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, PROVIDE TEMPORARY CAP AND PREPARE AREA TO EXTEND UTILITIES TO NEW FIXTURE LOCATION WHEN NEEDED. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.
6. OWNER TO REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE OR DRAIN IN ITS ENTIRETY. INLCUDING ANY RELATED SUPPORTS & APPURTENANCES. OWNER TO CAP UNUSED PIPING ABOVE, BELOW OR BEHIND ARCHITECTURAL FINISHES.

KEY MAP



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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
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REGISTERED PROFESSIONAL ENGINEER
M 34234
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STAMP

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
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MILESTONES

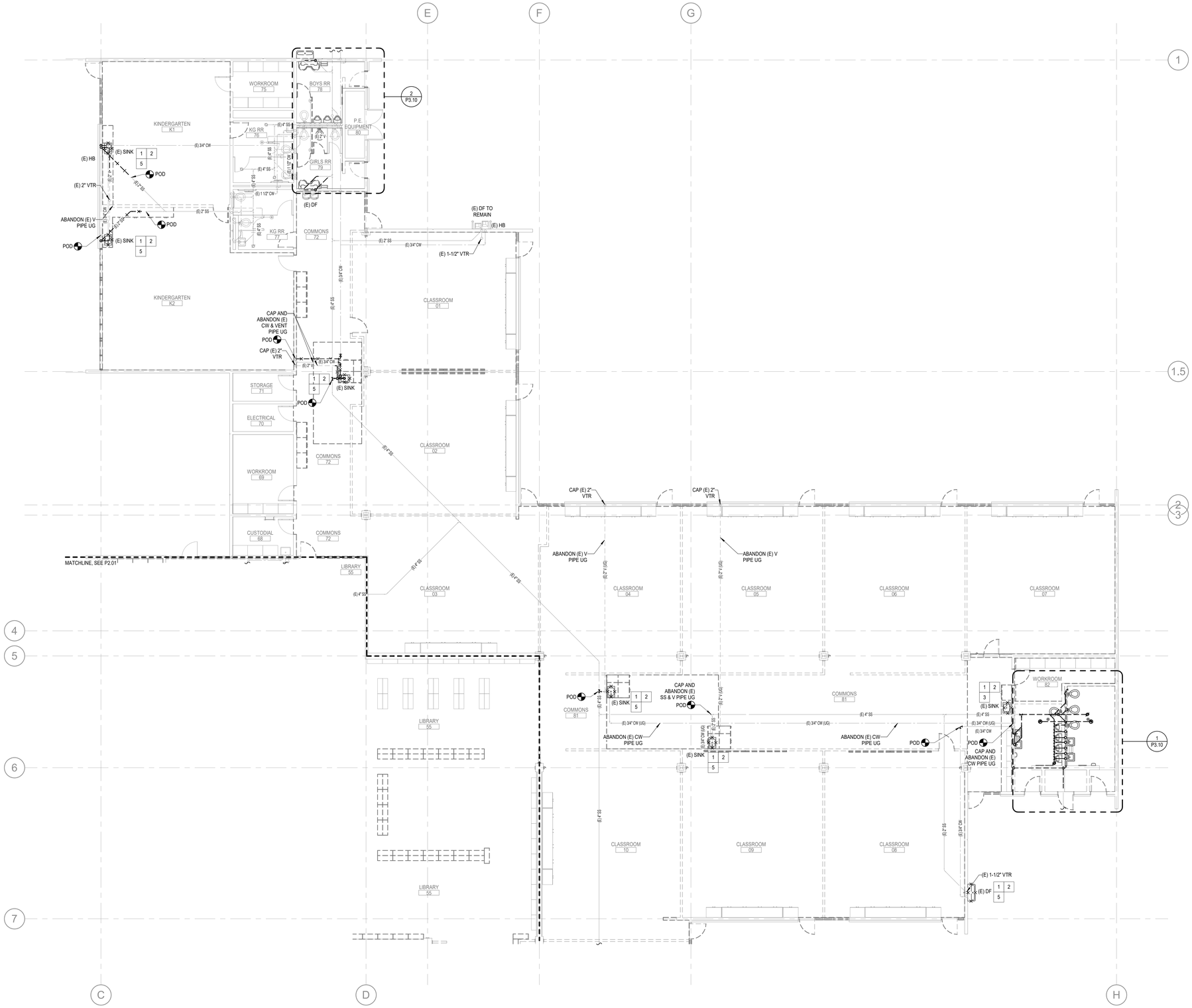
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DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

PLUMBING DEMO FLOOR PLAN - BUILDING A PART A

DATE 09/05/2025
JOB # 2024022
SHEET # P2.01

4/16/2026 7:44:59 AM



1 P2.02 PLUMBING DEMO FLOOR PLAN - PART B

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

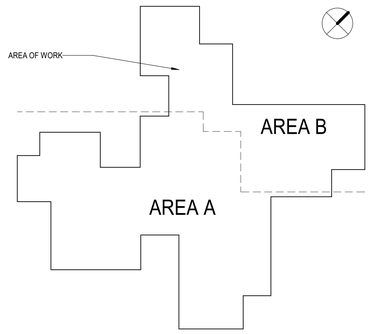
PLUMBING DEMO SHEET NOTES:

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.

PLUMBING DEMO KEY NOTES:

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 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 OR DRAIN IN ITS ENTIRETY, INLCUDING ANY RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, CAP UNUSED PIPING ABOVE, BELOW OR BEHIND ARCHITECTURAL FINISHES. SEE ARCHITECTURAL DEMO SHEETS FOR MORE INFORMATION.
5. REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, PROVIDE TEMPORARY CAP AND PREPARE AREA TO EXTEND UTILITIES TO NEW FIXTURE LOCATION WHEN NEEDED. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.

KEY MAP



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

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

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

DATE SIGNED: 04/16/2026

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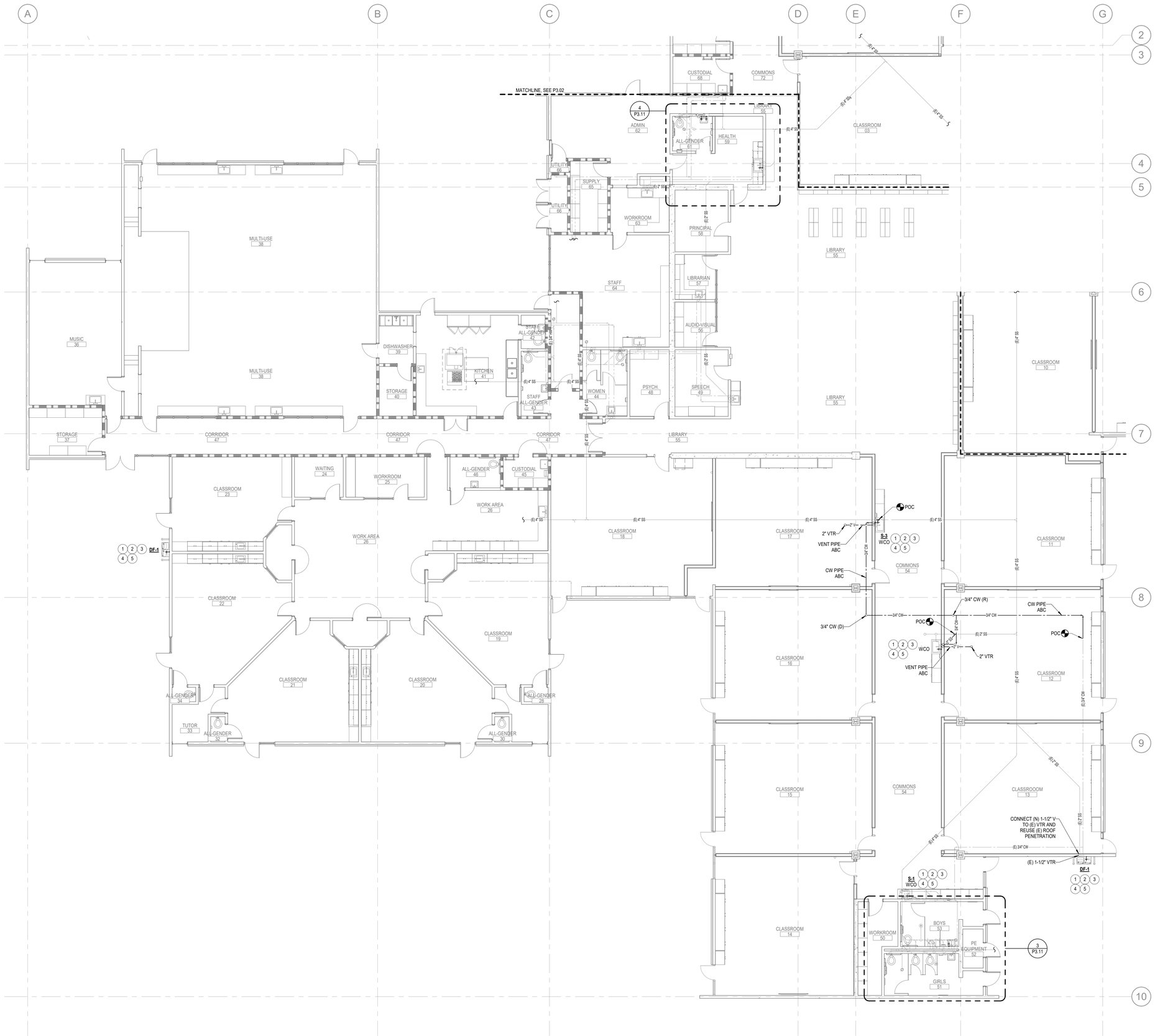
PLUMBING DEMO FLOOR PLAN - BUILDING A PART B

DATE 09/05/2025

JOB # 2024022

SHEET # P2.02

4/16/2026 7:45:00 AM



1 P3.01 PLUMBING NEW FLOOR PLAN - PART A

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

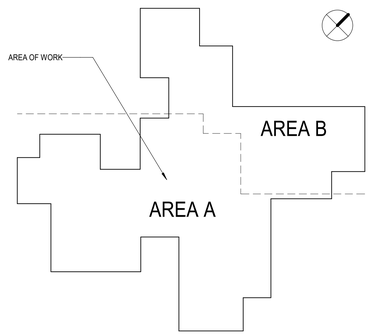
PLUMBING NEW SHEET NOTES:

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.
4. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
5. COORDINATE CONSTRUCTION WORK AND SCHEDULE 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.
6. 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.
7. 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.
8. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
9. 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.
10. COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.
11. ALL PUMPED CONDENSATE DRAIN LINES (PCD) SHALL SLOPE AND DISCHARGE DOWN TO A GRAVITY CD BY A MINIMUM OF 6" TO AVOID BACKFLOW TO MECH UNIT.
12. 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.
13. NO EXPOSED PIPING SHALL BE LEFT TO RUST OR SUBJECTED TO CONDITIONS DETRIMENTAL TO THE PIPE WITHOUT PROVIDING PROTECTION, TEMPORARY OR OTHERWISE, SUITABLE FOR THE TYPE OF PIPE BEING PROTECTED.
14. 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.
15. THERE SHALL BE NO PIPING WITHIN ELECTRICAL EQUIPMENT'S DEDICATED SPACE. ELECTRICAL EQUIPMENT SUCH AS PANEL BOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS LOCATED INDOORS MUST HAVE EXCLUSIVE DEDICATED SPACE FROM THE FLOOR UPWARD TO 6FT ABOVE THE EQUIPMENT, THE WIDTH AND DEPTH OF THE EQUIPMENT. COORDINATE SHOP DRAWINGS AMONGST TRADES LOCATING ALL ELECTRICAL EQUIPMENT PRIOR TO ANY PIPE INSTALLATION. THERE SHALL ALSO BE NO PIPING ABOVE THE DEDICATED SPACE UNLESS PROTECTION IS PROVIDED FOR EQUIPMENT SHOULD THE PIPING LEAK OR BREAK.
16. CONTRACTOR TO AVOID GROUNDING ELECTRICAL HARDWARES SUCH AS TELEPHONES TO AVAILABLE WATER LINES, WHEN POSSIBLE TO AVOID METALLIC TASTE IN WATER FROM DRINKING FOUNTAINS.

PLUMBING NEW KEY NOTES:

1. VERIFY PRECISE AND EXACT LOCATION OF EXISTING PIPE, PARTICULARLY THOSE INSIDE WALL CAVATIES, 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.
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3. SEE STRUCTURAL DRAWINGS FOR PROVISIONS ON & REQUIREMENTS WHEN RUNNING PIPE THROUGH, BELOW OR IN CLOSE PROXIMITY TO STRUCTURAL COMPONENTS. COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO START OF ANY INSTALLATION WORK.
4. CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES TO 5FT OUTSIDE BUILDING.
5. EXTEND SEWER, VENT & WATER PIPING FROM CLOSEST EXISTING PIPE OF ADEQUATE SIZE TO LOCATION OF NEW FIXTURE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, CLEARANCES AND OTHER INFORMATION. COORDINATE SHOP DRAWINGS PRIOR TO ANY INSTALLATION.

KEY MAP



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CONSULTANT

capital engineering
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RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — JOHN CHRISTOPHER GIBSON — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

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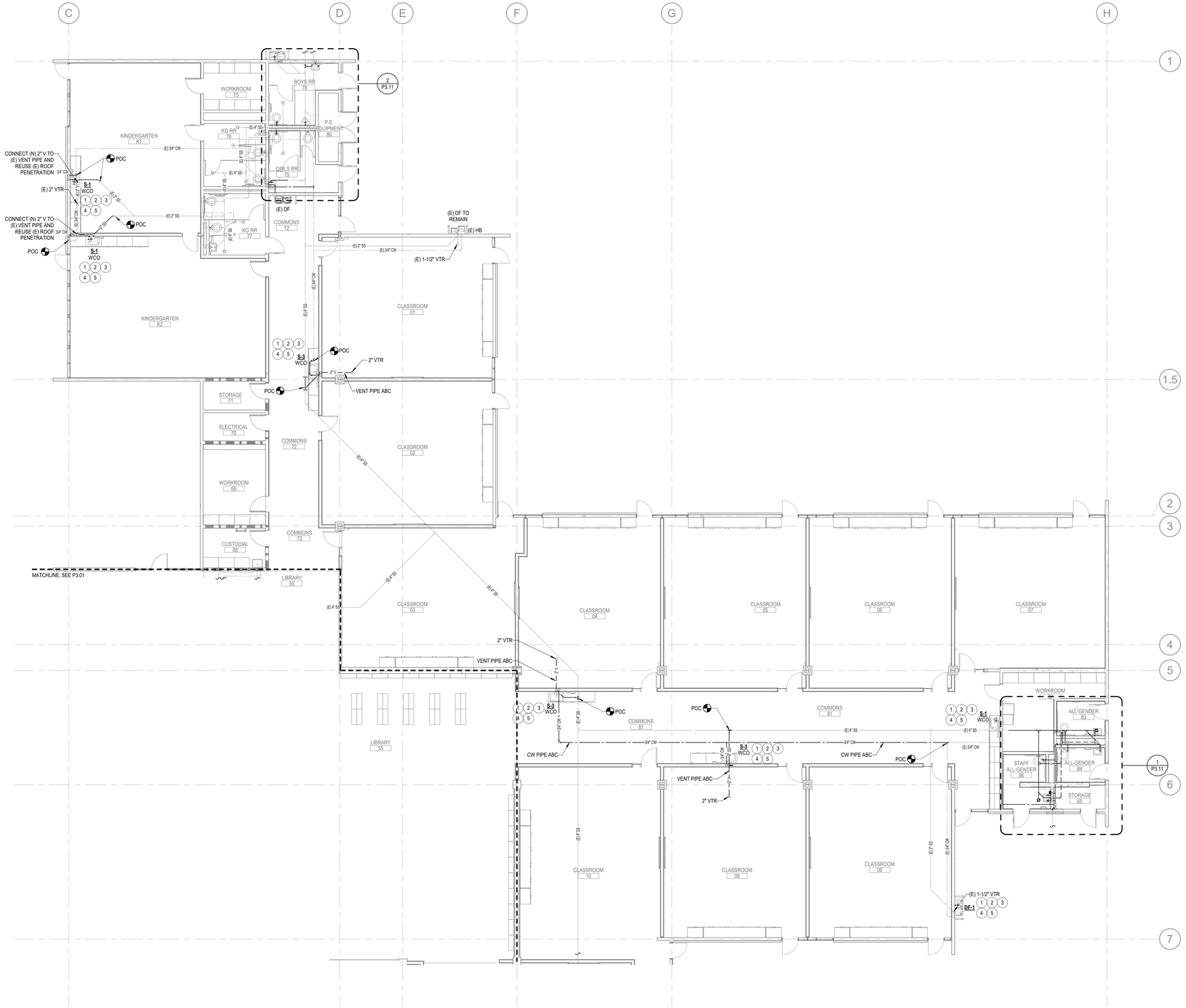
PLUMBING NEW FLOOR PLAN - BUILDING A PART A

DATE 09/05/2025

JOB # 2024022

SHEET # P3.01

4/16/2026 7:45:02 AM



1 P3.02 PLUMBING NEW FLOOR PLAN - PART B

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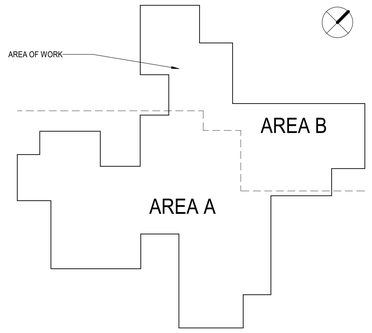
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RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — DAN CE LOPEZ — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

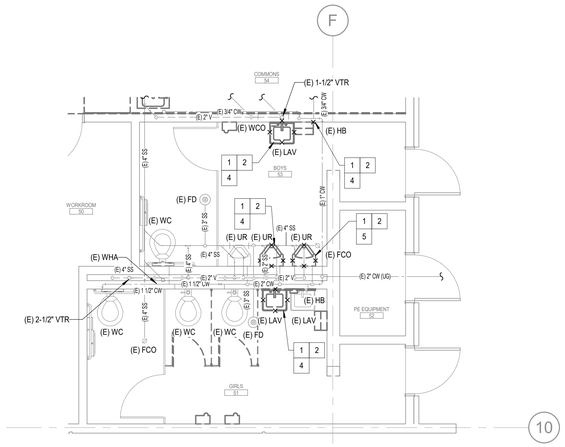
PLUMBING NEW FLOOR PLAN - BUILDING A PART B

DATE 09/05/2025

JOB # 2024022

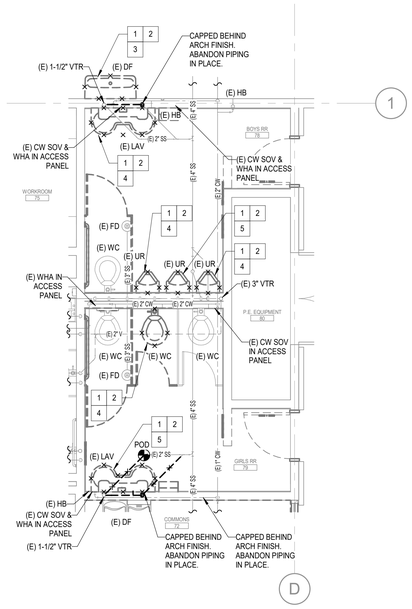
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4/16/2026 7:45:03 AM



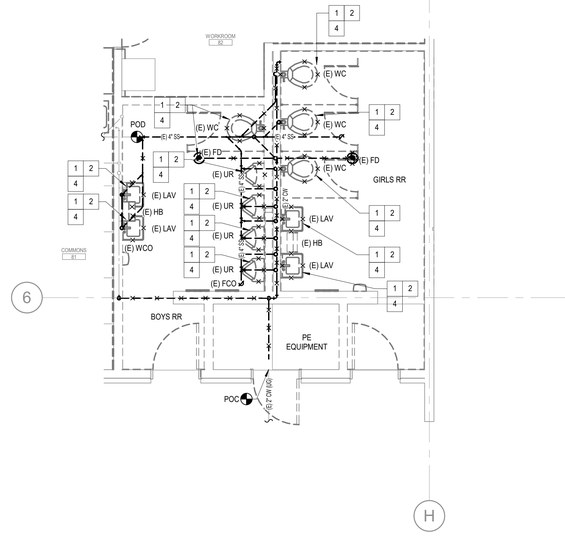
3 P3.10 PLUMBING ENLARGED DEMO FLOOR PLAN - SOUTH RR

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



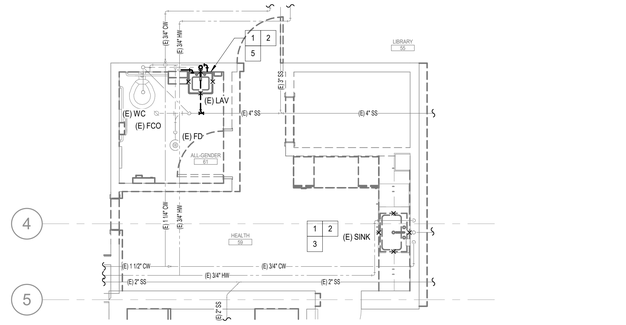
2 P3.10 PLUMBING ENLARGED DEMO FLOOR PLAN - NORTH RR

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



1 P3.10 PLUMBING ENLARGED DEMO FLOOR PLAN -EAST RR

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



4 P3.10 PLUMBING ENLARGED DEMO FLOOR PLAN -HEALTH RR

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

PLUMBING 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.

PLUMBING DEMO KEY NOTES:

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.

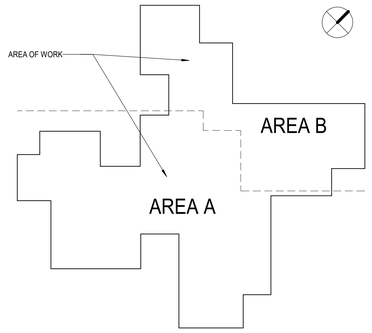
2 VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY INSTALLATION. PREPARE AREA FOR NEW WORK. DO NOT PROCEED WITH NEW WORK IF PATH FOR NEW PIPE IS NOT ESTABLISHED AND IF CONNECTION TO EXISTING UTILITIES ARE NOT FEASIBLE.

3 REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED 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 OR DRAIN IN ITS ENTIRETY, INLCUDING ANY RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, CAP UNUSED PIPING ABOVE, BELOW OR BEHIND ARCHITECTURAL FINISHES. SEE ARCHITECTURAL DEMO SHEETS FOR MORE INFORMATION.

5 REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, PROVIDE TEMPORARY CAP AND PREPARE AREA TO EXTEND UTILITIES TO NEW FIXTURE LOCATION WHEN NEEDED. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.

KEY MAP



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
2406T1.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
JOHN C. LY
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

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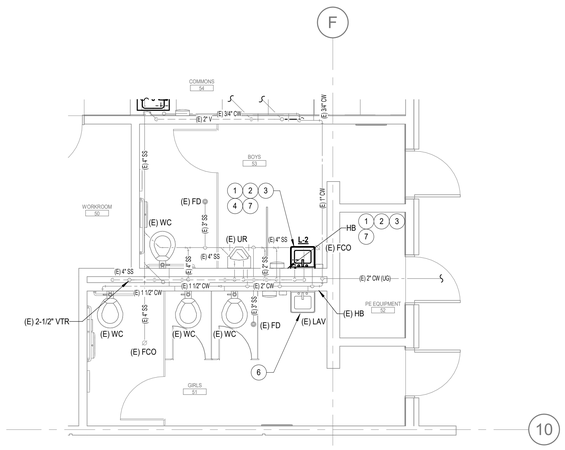
PLUMBING DEMO ENLARGED FLOOR PLANS

DATE 09/05/2025

JOB # 2024022

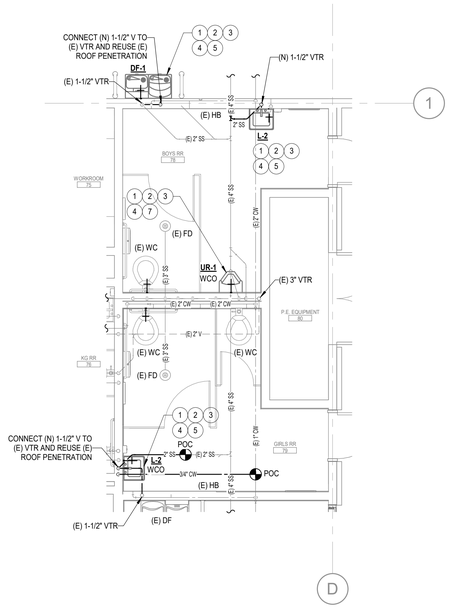
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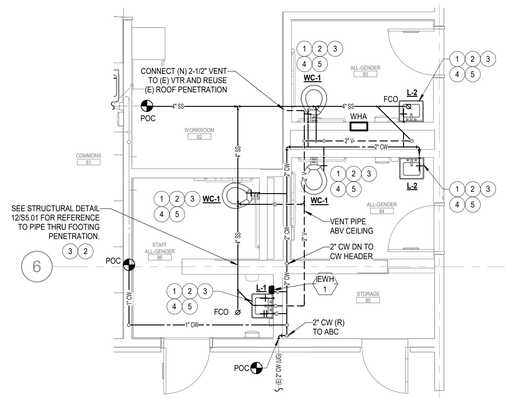
3 P3.11 PLUMBING ENLARGED NEW FLOOR PLAN - SOUTH RR

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



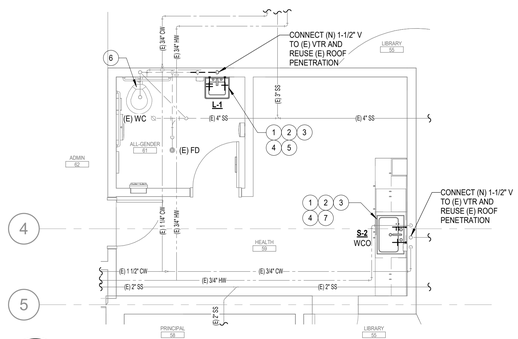
2 P3.11 PLUMBING ENLARGED NEW FLOOR PLAN - NORTH RR

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



1 P3.11 PLUMBING ENLARGED NEW FLOOR PLAN - EAST RR

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



4 P3.11 PLUMBING ENLARGED NEW FLOOR PLAN -HEALTH RR

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

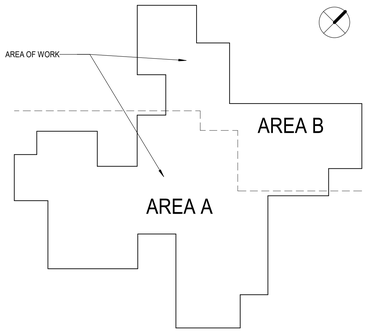
PLUMBING NEW SHEET NOTES:

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.
4. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
5. COORDINATE CONSTRUCTION WORK AND SCHEDULE 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.
6. 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.
7. 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.
8. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
9. 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.
10. COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.
11. ALL PUMPED CONDENSATE DRAIN LINES (PCD) SHALL SLOPE AND DISCHARGE DOWN TO A GRAVITY CO BY A MINIMUM OF 6" TO AVOID BACKFLOW TO MECH UNIT.
12. 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.
13. NO EXPOSED PIPING SHALL BE LEFT TO RUST OR SUBJECTED TO CONDITIONS DETRIMENTAL TO THE PIPE WITHOUT PROVIDING PROTECTION, TEMPORARY OR OTHERWISE, SUITABLE FOR THE TYPE OF PIPE BEING PROTECTED.
14. 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.
15. THERE SHALL BE NO PIPING WITHIN ELECTRICAL EQUIPMENT'S DEDICATED SPACE. ELECTRICAL EQUIPMENT SUCH AS PANEL BOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS LOCATED INDOORS MUST HAVE EXCLUSIVE DEDICATED SPACE FROM THE FLOOR UPWARD TO 6FT ABOVE THE EQUIPMENT, THE WIDTH AND DEPTH OF THE EQUIPMENT. COORDINATE SHOP DRAWINGS AMONGST TRADES LOCATING ALL ELECTRICAL EQUIPMENT PRIOR TO ANY PIPE INSTALLATION. THERE SHALL ALSO BE NO PIPING ABOVE THE DEDICATED SPACE UNLESS PROTECTION IS PROVIDED FOR EQUIPMENT SHOULD THE PIPING LEAK OR BREAK.
16. CONTRACTOR TO AVOID GROUNDING ELECTRICAL HARDWARES SUCH AS TELEPHONES TO AVAILABLE WATER LINES, WHEN POSSIBLE TO AVOID METALLIC TASTE IN WATER FROM DRINKING FOUNTAINS.

PLUMBING NEW KEY NOTES:

1. VERIFY PRECISE AND EXACT LOCATION OF EXISTING PIPE. PARTICULARLY THOSE INSIDE WALL CAVATIES, 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. SEE STRUCTURAL DRAWINGS FOR PROVISIONS ON & REQUIREMENTS WHEN RUNNING PIPE THROUGH, BELOW OR IN CLOSE PROXIMITY TO STRUCTURAL COMPONENTS. COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO START OF ANY INSTALLATION WORK.
4. CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES TO 5FT OUTSIDE BUILDING.
5. EXTEND SEWER, VENT & WATER PIPING FROM CLOSEST EXISTING PIPE OF ADEQUATE SIZE TO LOCATION OF NEW FIXTURE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, CLEARANCES AND OTHER INFORMATION. COORDINATE SHOP DRAWINGS PRIOR TO ANY INSTALLATION.
6. PROTECT (E) FIXTURE TO REMAIN IN PLACE DURING DEMO/CONSTRUCTION WORK. COORDINATE SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT. PROVIDE TEMPORARY UTILITIES IF NEEDED.
7. CONNECT NEW PLUMBING FIXTURE TO EXISTING UTILITIES. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, CLEARANCES AND OTHER INFORMATION. COORDINATE SHOP DRAWINGS PRIOR TO ANY INSTALLATION.

KEY MAP



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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

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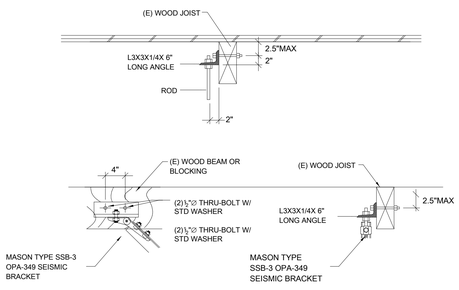
PLUMBING NEW ENLARGED FLOOR PLANS

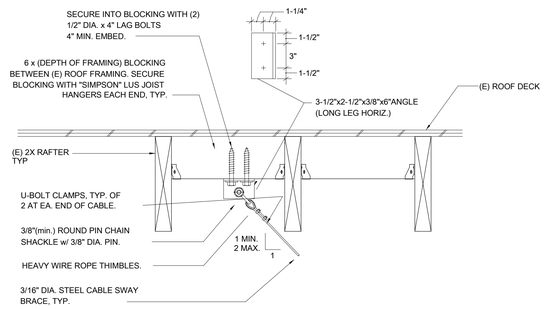
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JOB # 2024022

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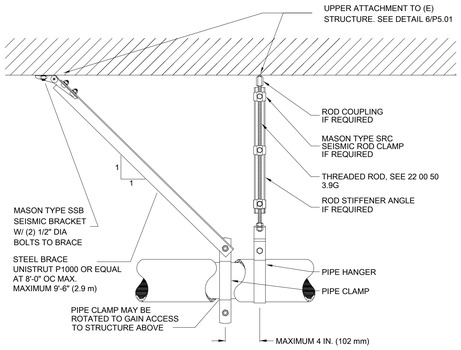


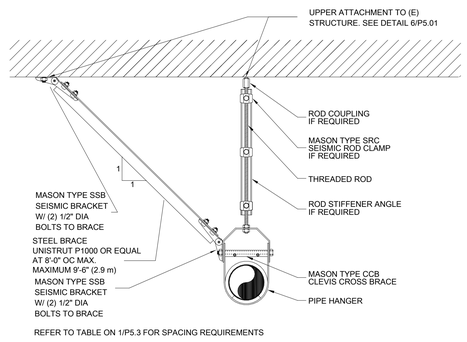


UPPER ATTACHMENT AT WOOD FRAMED ROOF

SCALE : NONE

6
P5.01

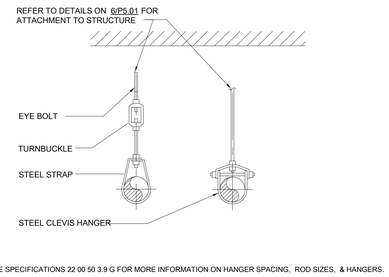




SEISMIC BRACING FOR PIPE

SCALE : NONE

7
P5.01

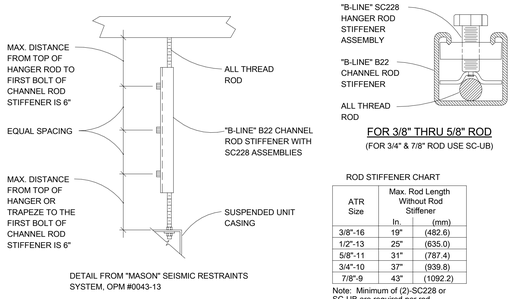


SEE SPECIFICATIONS 22 00 50 3.9 G FOR MORE INFORMATION ON HANGER SPACING, ROD SIZES, & HANGERS.

PIPE HANGERS

SCALE : NONE

9
P5.01



FOR 3/8" THRU 5/8" ROD
(FOR 3/4" & 7/8" ROD USE SC-UB)

DETAIL FROM "MASON" SEISMIC RESTRAINTS SYSTEM, OPM #0043-13

ROD STIFFENER CHART

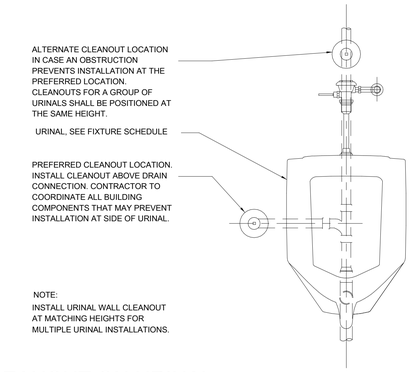
ATR Size	Max. Rod Length Without Rod Stiffener	
	In.	(mm)
3/8"-16	19"	(482.6)
1/2"-13	25"	(635.0)
5/8"-11	31"	(787.4)
3/4"-10	37"	(939.8)
7/8"-9	43"	(1092.2)

Note: Minimum of (2)-SC228 or SC-UB are required per rod.

ROD STIFFENER DETAIL

SCALE : NONE

8
P5.01



CLEANOUT ON URINAL

SCALE : NONE

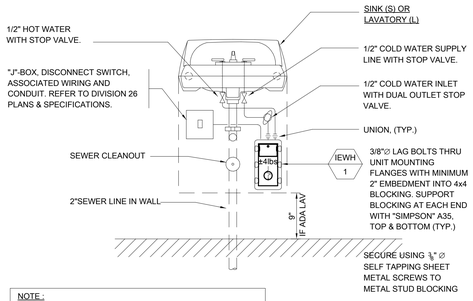
3
P5.01

NOTES:
INSTALL FLUSH VALVE PER MANUFACTURER'S INSTRUCTIONS.
VERIFY ROUGH IN OF WATER SUPPLY TO ALLOW FOR PROPER VALVE INSTALLATION.

FLUSH VALVE INSTALLATION

SCALE : NONE

4
P5.01

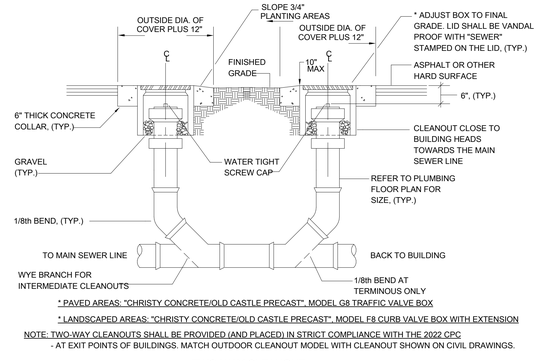


NOTE :
LOCATE UNIT WITHIN THE BOUNDARY OF THE FIXTURE WIDTH AND MAINTAIN ACCESSIBLE CLEARANCES - SEE ARCHITECTURAL PLANS.

INSTANTANEOUS ELECTRIC WATER HEATER

SCALE : NONE

5
P5.01

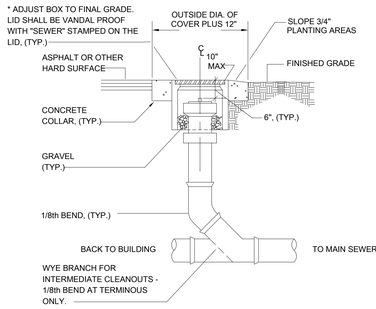


* PAVED AREAS: "CHRISTY CONCRETE/OLD CASTLE PRECAST", MODEL G8 TRAFFIC VALVE BOX

* LANDSCAPED AREAS: "CHRISTY CONCRETE/OLD CASTLE PRECAST", MODEL F8 CURB VALVE BOX WITH EXTENSION

NOTE: TWO-WAY CLEANOUTS SHALL BE PROVIDED (AND PLACED) IN STRICT COMPLIANCE WITH THE 2022 CPC
- AT EXIT POINTS OF BUILDINGS. MATCH OUTDOOR CLEANOUT MODEL WITH CLEANOUT SHOWN ON CIVIL DRAWINGS.

TWO-WAY CLEANOUT



* PAVED AREAS: CHRISTY G8 TRAFFIC VALVE BOX

* LANDSCAPED AREAS: CHRISTY F8 CURB VALVE BOX WITH EXTENSION

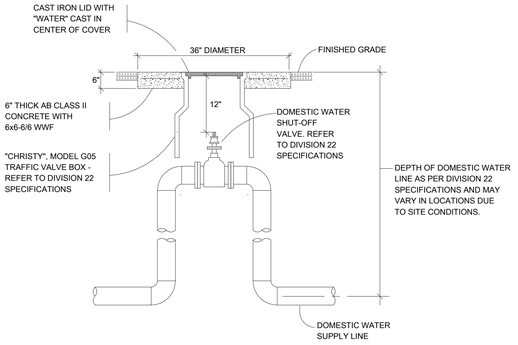
NOTE: SINGLE/INDIVIDUAL CLEANOUTS SHALL BE PROVIDED (AND PLACED) IN STRICT COMPLIANCE WITH THE 2022 CPC - AT UPPER TERMINALS/END OF SEWER MAINS, ON BRANCH LINES IN EXCESS OF 5FT. AND AT 50 FT. INTERVALS (INTERIOR TO THE SPACE) PER DIVISION 22 SPECIFICATIONS. MATCH OUTDOOR CLEANOUT MODEL WITH CLEANOUT SHOWN ON CIVIL DRAWINGS.

SINGLE CLEANOUT

CLEANOUT DETAILS

SCALE : NONE

1
P5.01



DOMESTIC WATER VALVE DETAIL

SCALE : NONE

2
P5.01

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

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

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

PLUMBING DETAILS

DATE 09/05/2025
JOB # 2024022
SHEET # P5.01

4/16/2026 7:45:04 AM

BUILDING DATA

PROJECT OWNER:	OAK GROVE SCHOOL DISTRICT 6579 SANTA TERESA BLVD. SAN JOSE, CA 95119	
PROJECT DESCRIPTION:	MODIFICATIONS TO EXISTING WET PIPE SPRINKLER SYSTEM. REMOVE AND REPLACE ARM OVERS TO PENDENT SPRINKLERS IN AREAS WITH NEW CEILINGS.	
OVERALL BUILDING SIZE:	41,478 SF	
OCCUPANCY GROUP:	TYPE E	
CONSTRUCTION TYPE:	TYPE VB SPRINKLED STRUCTURAL FRAME: INTERIOR NON-BEARING PARTITION FLOORS AND ROOF:	 0 HOURS 0 HOURS 0 HOURS
SPRINKLER DESIGN CRITERIA:	CLASSROOMS, OPEN SPACES, RESTROOMS, LOBBY, LIBRARY	
CLASSIFICATION OF OCCUPANCY: DESIGN DENSITY: DESIGN AREA MIN.: AREA OF COVERAGE/ SP HEAD:	LIGHT HAZARD 0.10 GPM/ SQ.FT. 1,500 SQ.FT. 225 SQ.FT. MAX/ HEAD	
SPRINKLER DESIGN CRITERIA:	MECHANICAL, ELECTRICAL, TELECOM, CUSTODIAL, STORAGE ROOMS	
CLASSIFICATION OF OCCUPANCY: DESIGN DENSITY: DESIGN AREA MIN.: AREA OF COVERAGE/ SP HEAD:	ORDINARY HAZARD I 0.15 GPM/ SQ.FT. 1,500 SQ.FT. 130 SQ.FT. MAX/ HEAD	

PARTIAL LIST OF APPLICABLE CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24 CCR
2020 NATIONAL ELECTRIC CODE AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGreen), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2019 ASME A17.1/ CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/ OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 04	-	STANDARD FOR INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING	2021 EDITION
NFPA 10	-	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2021 EDITION
NFPA 13	-	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	-	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17	-	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	-	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	-	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	-	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2019 EDITION
NFPA 24	-	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 EDITION
NFPA 25	-	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 70	-	NATIONAL ELECTRIC CODE (CA AMENDED)	2020 EDITION
NFPA 72	-	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	-	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 101	-	LIFE SAFETY CODE	2021 EDITION
NFPA 2001	-	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 EDITION
UL 300	-	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	-	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	-	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971- ICC 300	-	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2002 (R2010) 2017 EDITION

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

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
ABBR	ABBREVIATION
AFF	ABOVE FINISHED FLOOR
AO	ARM OVER
AS	AUTOMATIC SPRINKLER
ASR	AUTOMATIC SPRINKLER RISER
AV	ANGLE VALVE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
BFV	BUTTERFLY VALVE
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
CV	CHECK VALVE
CI	CAST IRON
COE	CHANGE OF ELEVATION
COUP	COUPLING
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON
DN	DOWN
DR	DROP
EOR	ENGINEER OF RECORD
EQB	EARTHQUAKE BRACE
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLG	FLANGE
GV	GLOBE VALVE
HGR	HANGER
IBR	IN BUILDING RISER (AMES)
IOR	INSPECTOR OF RECORD
JST	JOIST
LVL	LEVEL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PI	POST INDICATOR
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RN	RISER NIPPLE
SSP	STANDARD SPRAY PENDANT
SSU	STANDARD SPRAY UPRIGHT
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

ATTACHMENT & SEISMIC BRACING PROJECT NOTES

1. THE STRUCTURAL ENGINEER OF RECORD SHALL ENSURE THE ADEQUACY OF THE BUILDING STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS.
2. THE INSTALLING CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF NFPA 13 (2022) CHAPTER 18 INSTALLATION REQUIREMENTS FOR SEISMIC PROTECTION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - A. SEC. 18.5 SWAY BRACING
     - a. SEC. 18.5.1 GENERAL:
       - SEC. 18.5.1.3 HORIZONTAL LOADS ON SYSTEM PIPING SHALL BE DETERMINED IN ACCORDANCE WITH SEC. 18.5.9.
     - b. SEC. 18.5.2 LISTING
       - SEC. 18.5.2.1 SWAY BRACING ASSEMBLIES SHALL BE LISTED FOR A MAXIMUM LOAD RATING, UNLESS THE REQUIREMENTS OF 18.5.2.2 ARE MET.
       - SEC. 18.5.2.2.1 BRACING FITTINGS AND CONNECTIONS USED WITH THOSE SPECIFIC MATERIALS SHALL BE LISTED.
       - SEC. 18.5.2.3 THE LISTED LOAD RATING SHALL BE REDUCED AS SHOWN IN TABLE 18.5.2.3 TO DETERMINE THE ALLOWABLE LOAD FOR INSTALLATIONS WHERE THE BRACE IS LESS THAN 90 DEGREES FROM VERTICAL.
     - c. SEC. 18.5.5 LATERAL SWAY BRACING
       - SEC. 18.5.5.1 LATERAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCH LINES AND OTHER PIPING WITH A DIAMETER OF 2-1/2" AND LARGER
       - SEC. 18.5.5.1.1. WHERE BRANCH LINES ARE NOT PROVIDED WITH LATERAL SWAY BRACING, THEY SHALL BE PROVIDED WITH RESTRAINT IN ACCORDANCE WITH SEC. 18.6.
       - SEC. 18.5.5.2.2 SPACING SHALL NOT EXCEED A MAXIMUM INTERVAL OF 40FT ON CENTER.
       - SEC. 18.5.5.4 THE REQUIREMENTS OF 18.5.5.1 SHALL NOT APPLY TO 2-1/2" STARTER PIECES THAT DO NOT EXCEED 12FT IN LENGTH.
       - SEC. 18.5.5.5 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 6FT.
       - SEC. 18.5.5.10 THE LATERAL SWAY BRACING REQUIRED BY 18.5.5 SHALL BE PERMITTED TO BE OMITTED WHEN 18.5.5.10.1 FOR BRANCH LINES OR 18.5.5.10.2 FOR MAINS IS MET.
     - d. SEC. 18.5.6 LONGITUDINAL SWAY BRACING
       - SEC. 18.5.6.1 LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
       - SEC. 18.5.6.4 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE OR A CHANGE IN DIRECTION SHALL NOT EXCEED 40 FT.
     - e. SEC. 18.5.8 SWAY BRACING OF RISERS
       - SEC. 18.5.8.1 TOPS OF RISERS EXCEEDING 36 IN IN LENGTH SHALL BE PROVIDED WITH A FOUR-WAY BRACE LOCATED ON THE TOPMOST SECTION OF VERTICAL PIPING, BUT NOT MORE THAN 24 IN BELOW THE TOP COUPLING.
       - SEC. 18.5.8.4 DISTANCE BETWEEN FOUR-WAY BRACES FOR RISERS SHALL NOT EXCEED 25 FT.
   - B. SEC. 18.6 RESTRAINT OF BRANCH LINES
     - a. 18.6.1 RESTRAINT IS CONSIDERED A LESSER DEGREE OF RESISTING LOADS THAN BRACING AND SHALL BE PROVIDED BY USE OF ONE OF THE FOLLOWING:
       - LISTED SWAY BRACE ASSEMBLY
       - WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 18.5.5.11
       - NO. 12 440 LB WIRE INSTALLED AT LEAST 45 DEGREES FROM VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF THE PIPE
       - HANGER NOT LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 IN OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED 400, WHERE THE ROD EXTENDS TO THE PIPE OR A SURGE CLIP HAS BEEN INSTALLED
       - OTHER APPROVED MEANS
     - b. SEC. 18.6.3. THE END SPRINKLER ON A BRANCH LINE SHALL BE RESTRAINED.
       - SEC. 18.6.3.1 THE LOCATION OF THE RESTRAINT FROM END OF THE LINE SHALL NOT BE GREATER THAN 36" FOR 1" PIPE, 48" FOR 1-1/4" PIPE, AND 60" FOR 1-1/2" OR LARGER PIPE.
     - c. SEC. 18.6.5 WHERE THE BRANCH LINES ARE SUPPORTED BY RODS LESS THAN 6IN LONG MEASURED BETWEEN THE TOP OF PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE, THE REQUIREMENTS OF 18.6.1 THROUGH 18.6.4 SHALL NOT APPLY AND ADDITIONAL RESTRAINT SHALL NOT BE REQUIRED FOR THE BRANCH LINES.
     - d. SEC. 18.6.7 DROPS AND ARMOVERS SHALL NOT REQUIRE RESTRAINT.
3. SEISMIC DESIGN CRITERIA IS SHOWN BELOW FOR Ss & Cp VALUES SHOWN ON STRUCTURAL DRAWINGS.

NFPA 13 2022 TABLE 18.6.4 (A)
MAXIMUM SPACING OF STEEL PIPE RESTRAINTS

PIPE SIZE	SEISMIC COEFFICIENT, C_P			
	$C_P \le 0.50$	$0.50 < C_P \le 0.71$	$0.71 < C_P \le 1.40$	$C_P > 1.40$
1/2"	34'	29'	20'	18'
3/4"	38'	32'	23'	20'
1"	43'	36'	26'	22'
1 1/4"	49'	39'	27'	24'
1 1/2"	49'	41'	29'	25'
2"	53'	45'	31'	27'

NFPA 13 2022 TABLE 18.5.9.3 (SEISMIC COEFFICIENT TABLE)

		Site Class-Specific C_P			
S_S	Default C_P	A	B	C	D
0.33 OR LESS	0.24	0.13	0.14	0.21	0.24
0.4	0.28	0.15	0.17	0.25	0.28
0.5	0.33	0.19	0.21	0.31	0.33
0.6	0.37	0.23	0.26	0.36	0.37
0.7	0.41	0.27	0.30	0.40	0.41
0.8	0.45	0.30	0.34	0.45	0.45
0.9	0.51	0.34	0.38	0.51	0.48
1.0	0.56	0.38	0.42	0.56	0.52
1.1	0.62	0.42	0.47	0.62	0.55
1.2	0.68	0.45	0.51	0.68	0.58
1.3	0.73	0.49	0.55	0.73	0.61
1.4	0.79	0.53	0.59	0.79	0.66
1.5	0.84	0.56	0.63	0.84	0.70
1.6	0.90	0.60	0.68	0.90	0.75
1.7	0.96	0.64	0.72	0.96	0.80
1.8	1.01	0.68	0.76	1.01	0.84
1.9	1.07	0.71	0.80	1.07	0.89
2.0	1.12	0.75	0.84	1.12	0.94
2.1	1.18	0.79	0.89	1.18	0.98
2.2	1.24	0.83	0.93	1.24	1.03
2.3	1.29	0.86	0.97	1.29	1.08
2.4	1.35	0.90	1.01	1.35	1.12
2.5	1.40	0.94	1.05	1.40	1.17
2.6	1.46	0.98	1.10	1.46	1.22
2.7	1.52	1.01	1.14	1.52	1.26
2.8	1.57	1.05	1.18	1.57	1.31
2.9	1.63	1.09	1.22	1.63	1.36
3.0	1.68	1.12	1.26	1.68	1.40
3.1	1.74	1.16	1.31	1.74	1.45
3.2	1.80	1.20	1.35	1.80	1.50
3.3	1.85	1.24	1.39	1.85	1.54
3.4	1.91	1.27	1.43	1.91	1.59
3.5	1.96	1.31	1.47	1.96	1.64
3.6	2.02	1.35	1.52	2.02	1.68
3.7	2.08	1.39	1.56	2.08	1.73
3.8	2.13	1.42	1.60	2.13	1.78
3.9	2.19	1.46	1.64	2.19	1.82
4	2.24	1.50	1.68	2.24	1.87

MEP COMPONENT ANCHORAGE NOTES

APPLICABLE CODE: 2022 CBC

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.

INSPECTION & TESTING PROJECT NOTES

1. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION / OR TESTING.
2. THE INSTALLING CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13 (2022) SEC. 6.10 TESTING AND ACCEPTANCE:
   - A. NFPA 13 (2022) SEC. 6.10.1.1 THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
     - a. NOTIFYING THE AHJ AND THE OWNERS REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED.
     - b. PERFORMING ALL REQUIRED ACCEPTANCE TESTS.
     - c. COMPLETING AND SIGNING A CONTRACTORS MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 6.10.1.1
3. THE INSTALLING CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL REQUIREMENTS OF NFPA 13 (2022) SEC. 29.2 ACCEPTANCE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO:
   - A. SEC. 29.2.1. HYDROSTATIC TESTS
     - a. SEC. 29.2.1.1 UNLESS PERMITTED BY 29.2.1.3 THROUGH 29.2.1.6 ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTING AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.
       - THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF THE DATE AND TIME OF TESTING SO THAT THEY MAY OBSERVE. THE TEST SHALL BE WITNESSED AND APPROVED BY THE IOR, LOCAL FIRE AUTHORITY AND OR OWNERS REPRESENTATIVE.
     - b. SEC. 29.2.1.2 LOSS SHALL BE DETERMINED BY A DROP IN GAUGE PRESSURE OR VISUAL LEAKAGE.
   - B. SEC. 29.2.3 SYSTEM OPERATIONAL TESTS.
     - a. SEC. 29.2.3.1. WATERFLOW DEVICES. WATERFLOW DETECTING DEVICES SHALL BE FLOW TESTED THROUGH THE INSPECTORS TEST CONNECTION AND SHALL RESULT IN AN AUDIBLE ALARM ON THE PREMISES IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 7.7.
     - b. SEC. 29.2.3.1.1 WHERE A TIME DELAY IS MONITORING WATERFLOW, AN ALARM SIGNAL SHALL ACTIVATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ADOPTED FIRE ALARM CODE.
     - c. SEC. 29.2.3.4 MAIN DRAIN VALVES.
       - SEC. 29.2.3.4.1 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES
       - SEC. 29.2.3.4.2 THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTORS MATERIAL AND TEST CERTIFICATE AND THE SPRINKLER SYSTEM GENERAL INFORMATION PLACARD.
4. CBC SEC. 903.4.1 MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER-FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
5. TITLE 19 ARTICLE 906 (a-d) A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND / OR DATE OF INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
6. THE INSTALLING CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13 (2022) SEC. 29.3. THE INSTALLING CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER OR THE PROPERTY OWNERS AUTHORIZED REPRESENTATIVE WITH THE FOLLOWING:
   - A. ALL LITERATURE AND INSTRUCTIONS PROVIDED BY THE MANUFACTURER DESCRIBING PROPER OPERATION AND MAINTENANCE OF ANY EQUIPMENT AND DEVICES INSTALLED
   - B. CURRENT EDITION OF NFPA 25

EXISTING BUILDING PROJECT NOTES

1. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS.
2. INSTALLING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND IS RESPONSIBLE FOR PREPARING A DESIGN TO ACCOMMODATE ALL EXISTING CONDITIONS.
3. EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING FINISHES.
4. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
   - A. EXACT LOCATION OF ALL EQUIPMENT.
   - B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   - C. EXACT SIZE AND ROUTING OF PIPING.
5. ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

SPRINKLER SYSTEM - GENERAL INFORMATION

FOR

PROJECT NAME

PROJECT FACILITY

PIPE SCHEDULE SYSTEM	☐ YES	☒ NO	DATE	
HIGH-PILE STORAGE	☐ YES	☒ NO	FLOW TEST DATA	
RACK STORAGE	☐ YES	☒ NO	STATIC 0	PSI
COMMODITY CLASS			RESIDUAL 0	PSI
MAX STORAGE HEIGHT		FT	FLOW 0	GPM
AISLE WIDTH		FT	PITOT 0	PSI
ENCAPSULATION	☐ YES	☒ NO	DATE	
SOLID SHELVING	☐ YES	☒ NO	LOCATION	
FLAMMABLE / COMBUSTIBLE LIQUIDS	☐ YES	☒ NO		
OTHER STORAGE	☐ YES	☒ NO	LOCATION OF AUX/LOW POINT DRAINS	
HAZARDOUS MATERIALS	☐ YES	☒ NO	LOW POINT IN SYSTEM	
IDLE PALLETS	☐ YES	☒ NO		
ANTIFREEZE SYSTEMS	☐ YES	☒ NO	DRY PIPE / DOUBLE INTERLOCK PREACTION VALVE TEST RESULTS	
LOCATION				
DRY OR AUX SYSTEMS	☐ YES	☒ NO	ORIGINAL MAIN DRAIN TEST RESULTS	
LOCATION			STATIC	PSI
			RESIDUAL	PSI
			VENTING VALVE LOCATION	
			HIGH POINT IN SYSTEM	

WHERE INJECTION SYSTEMS ARE USED TO TREAT MIC OR CORROSION

TYPE OF CHEMICAL _____ CONCENTRATION _____

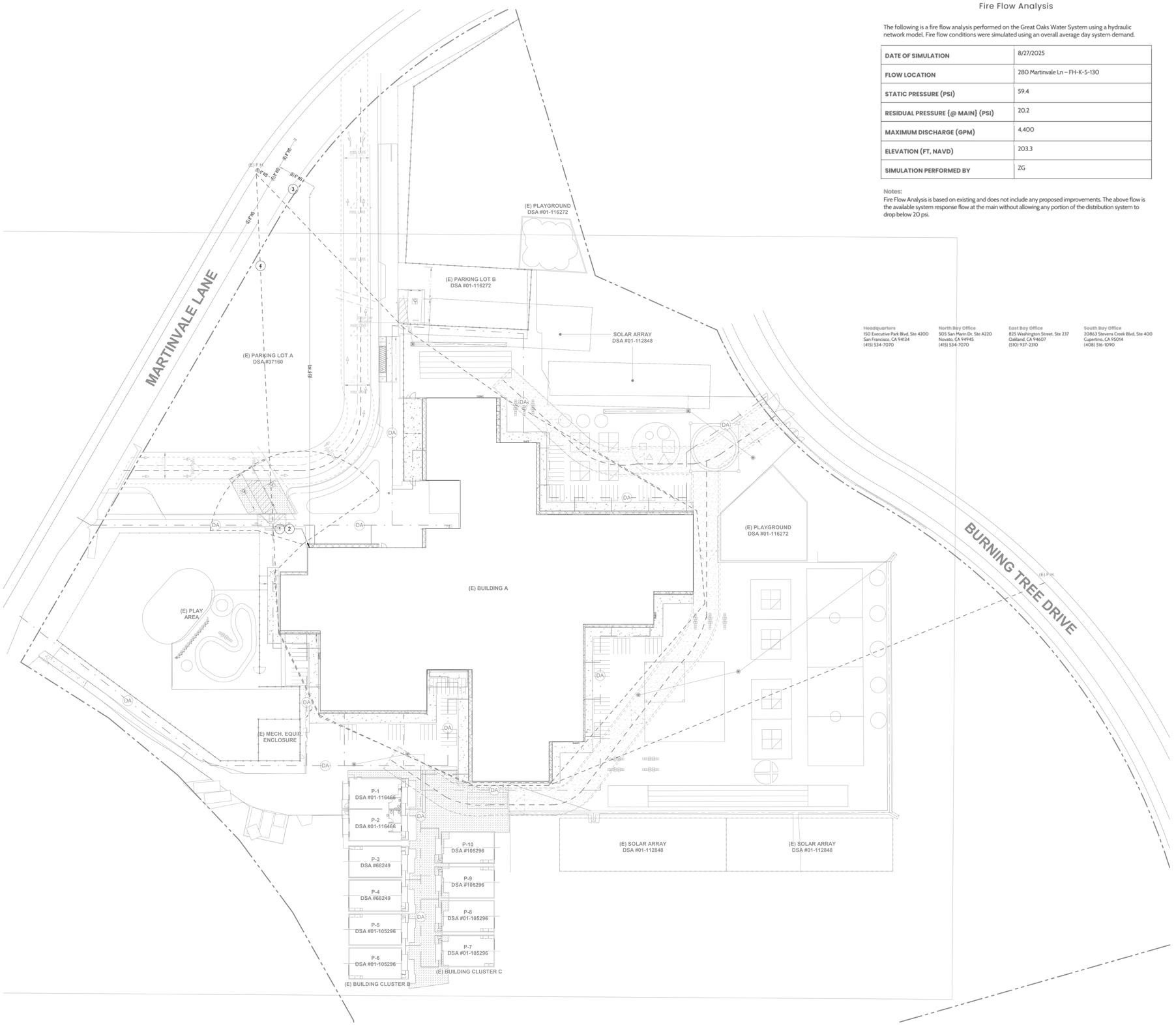
NAME OF CONTRACTOR OR DESIGNER CAPITAL ENGINEERING

ADDRESS 11020 SUN CENTER DRIVE, SUITE 100, RANCHO CORDOVA, CA 95670

PHONE (855) 331 - 7273

FIRE PROTECTION PROJECT NOTES

1. A LICENSED (C-16) CONTRACTOR SHALL ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF NFPA 13 (2022), CBC CHAPTER 9, NFPA 25 (2013) AND OTHER APPLICABLE CODES PER AHJ.
2. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY THE AHJ AND OR LOCAL FIRE MARSHALL. A STAMPED SET OF APPROVED DRAWINGS SHALL BE ON SITE AND USED FOR INSTALLATION. DEVIATIONS FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS SHALL BE APPROVED BY THE AHJ; AS OUTLINED IN SPECIFICATION SECTION 21 00 50. FAILURE TO COMPLY MAY RESULT IN A STOP WORK ORDER.
3. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
4. ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. PIPE SIZES SHOWN ON DRAWINGS ARE NOMINAL (NPS). LENGTHS OF PIPE ARE CENTER TO CENTER DIMENSIONS.
6. DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL; FOLLOW DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS.
7. ITEMS SHOWN ON PLANS DESCRIBE GENERAL LAYOUT REQUIREMENTS, AND ARE NOT INTENDED TO SHOW A COMPLETE LAYOUT OF REQUIRED FIRE PROTECTION SYSTEM PIPING AND COMPONENTS. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS. FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.
8. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED SPRINKLER STANDARD SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
9. THE LAYOUT REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND / OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ'S). WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO ENGINEER OF RECORD REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
10. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.
11. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE TO PROVIDE FABRICATION OR SHOP DRAWINGS. CAD FILES WILL NOT BE PROVIDED WITHOUT A SIGNED RELEASE OF LIABILITY FORM PER SPECIFICATION REQUIREMENTS.
12. THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW AND APPROVAL, COORDINATED SHOP DRAWINGS AND SUPPORTIVE CALCULATIONS FOR ANY / ALL CHANGES TO THE FIRE SPRINKLER SYSTEM LAYOUT SHOWN ON THESE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER.
13. ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HEREIN SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13.
14. EXPOSED FIRE SPRINKLER SYSTEM PIPING SHALL BE RUN STRAIGHT AND TIGHT TO UNDERSIDE OF STRUCTURAL MEMBERS UNO.
15. ANY DAMAGE TO NEW B



1 FP101 FIRE SPRINKLER SITE PLAN

SCALE: 1" = 30'-0"

FREYER LAURETA, INC.
Civil Engineers – Surveyors – Construction Managers

Great Oaks Water Company

Fire Flow Analysis

The following is a fire flow analysis performed on the Great Oaks Water System using a hydraulic network model. Fire flow conditions were simulated using an overall average day system demand.

DATE OF SIMULATION	8/27/2025
FLOW LOCATION	280 Martinvale Ln – FH-K-5-130
STATIC PRESSURE (PSI)	59.4
RESIDUAL PRESSURE {@ MAIN} (PSI)	20.2
MAXIMUM DISCHARGE (GPM)	4,400
ELEVATION (FT, NAVD)	203.3
SIMULATION PERFORMED BY	ZG

Notes:
Fire Flow Analysis is based on existing and does not include any proposed improvements. The above flow is the available system response flow at the main without allowing any portion of the distribution system to drop below 20 psi.

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Novato, CA 94945
(415) 534-7070

East Bay Office
825 Washington Street, Ste 237
Oakland, CA 94607
(510) 937-2310

South Bay Office
20863 Stevens Creek Blvd, Ste 400
Cupertino, CA 95014
(408) 516-1090

SHEET NOTES:

1. UNDERGROUND SITE WATER PIPING AND APPURTENANCES AS SHOWN ON SITE PLAN ARE FOR REFERENCE ONLY. THERE IS NO SCOPE OF WORK FOR FIRE SPRINKLER SYSTEM OUTSIDE OF THE BUILDING FOOTPRINT.
2. ALL (E) SITE FIRE WATER PIPING SHALL CONFORM TO NFPA 24 REQUIREMENTS.
3. THERE IS NO SCOPE OF WORK FOR FIRE SPRINKLER SYSTEM OUTSIDE OF THE BUILDING FOOTPRINT.
4. UNDERGROUND UTILITY ROUTINGS IS EXISTING AND FOR REFERENCE ONLY. INCLUDING BACKFLOW PREVENTER, FIRE DEPARTMENT CONNECTIONS, POST INDICATOR VALVES AND ANY OTHER SITE WATER INFORMATION.
5. ORIGINAL DSA AFSS WAS APPROVED IN 1974 UNDER DSA# - 37160

KEYED NOTES:

1. (E) 6" FIRE WATER LINE SERVING BUILDING, (E) 4" FIRE WATER RISER ABOVE GRADE.
2. (E) WEATHERPROOF FIRE ALARM BELL INTERLOCKED WITH FIRE ALARM CONTROL PANEL.
3. (E) BACKFLOW PREVENTER
4. (E) PIV, & (E) FDC

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PROJECT

BALDWIN
ELEMENTARY SCHOOL
MODERNIZATION

OAK GROVE SCHOOL
DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

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

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FIRE PROTECTION SITE PLAN

DATE 09/05/2025

JOB # 2024022

SHEET # FP101

4/16/2026 2:38:52 PM



SHEET NOTES:

1. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS.
   A. ALL EXISTING PIPE SIZES SHOWN ON PLANS SHALL BE VERFIED BY INSTALLING CONTRACTOR.
   B. ALL EXISTING PIPPING LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE INSTALLING CONTRACTOR.
2. INSTALLING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND IS RESPONSIBLE FOR PREPARING A DESIGN TO ACCOMMODATE ALL EXISTING CONDITIONS.
3. EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING FINISHES.
4. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
   A. EXACT LOCATION OF ALL EQUIPMENT.
   B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   C. EXACT SIZE AND ROUTING OF PIPING.
5. ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

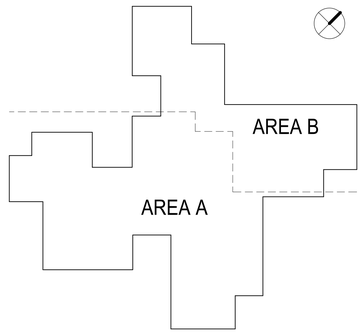
KEYED NOTES:

1. EXISTING FIRE SPRINKLER RISER TO REMAIN.
2. DEMO SPRINKLER HEADS, ARMOVER PIPING, DROP PIPING, AND ASSOCIATED FITTINGS BACK TO BRANCH LINE CONNECTIONS FOR ALL PENDENT TYPE HEADS IN CEILINGS. ALL UPRIGHT HEADS IN CONCEALED COMBUSTIBLE SPACE TO REMAIN. PREPARE EXISTING PIPING FOR NEW CONNECTION. TYPICAL FOR ALL SPRINKLER HEADS IN THIS AREA. U.O.N.

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

KEY MAP



1 FP201 FIRE PROTECTION DEMO PLAN - PART A
SCALE: 1/8" = 1'-0"

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT
capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — JOHN CE CHIANG — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA
DATE SIGNED: 04/16/2026

STAMP

STATE
DSA FILE NUMBER 43-41
APPL # 01-122542

REVISIONS

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90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET
FIRE PROTECTION DEMO PLAN - BUILDING A PART A

DATE 09/05/2025
JOB # 2024022
SHEET # FP201

4/16/2026 2:38:53 PM



1 FP202 FIRE PROTECTION DEMO PLAN - PART B

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

SHEET NOTES:

1. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS.
   - A. ALL EXISTING PIPE SIZES SHOWN ON PLANS SHALL BE VERFIED BY INSTALLING CONTRACTOR.
   - B. ALL EXISTING PIPPING LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE INSTALLING CONTRACTOR.
   - C. EXISTING ARM OVERS ARE NOT SHOWN AND SHALL BE FIELD VERIFIED.
2. INSTALLING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND IS RESPONSIBLE FOR PREPARING A DESIGN TO ACCOMMODATE ALL EXISTING CONDITIONS.
3. EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING FINISHES.
4. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS.
   - A. EXACT LOCATION OF ALL EQUIPMENT.
   - B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   - C. EXACT SIZE AND ROUTING OF PIPING.
5. ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

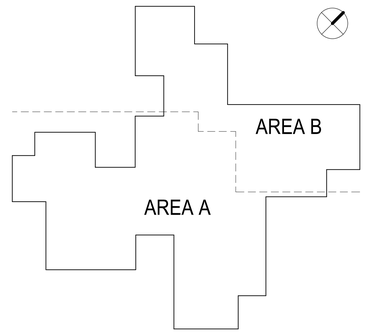
KEYED NOTES:

1. DEMO SPRINKLER HEAD, ARMOVER PIPING, DROP PIPING, AND ASSOCIATED FITTINGS BACK TO BRANCH LINE CONNECTIONS FOR ALL PENDENT TYPE HEADS IN CEILINGS. ALL UPRIGHT HEADS IN CONCEALED COMBUSTIBLE SPACE TO REMAIN. PREPARE EXISTING PIPING FOR NEW CONNECTION. TYPICAL FOR ALL SPRINKLER HEADS IN THIS AREA. U.O.N.

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

KEY MAP



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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

PROFESSIONAL ENGINEER — JOHN C. LYSAGHT — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

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STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

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90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FIRE PROTECTION DEMO PLAN - BUILDING A PART B

DATE 09/05/2025

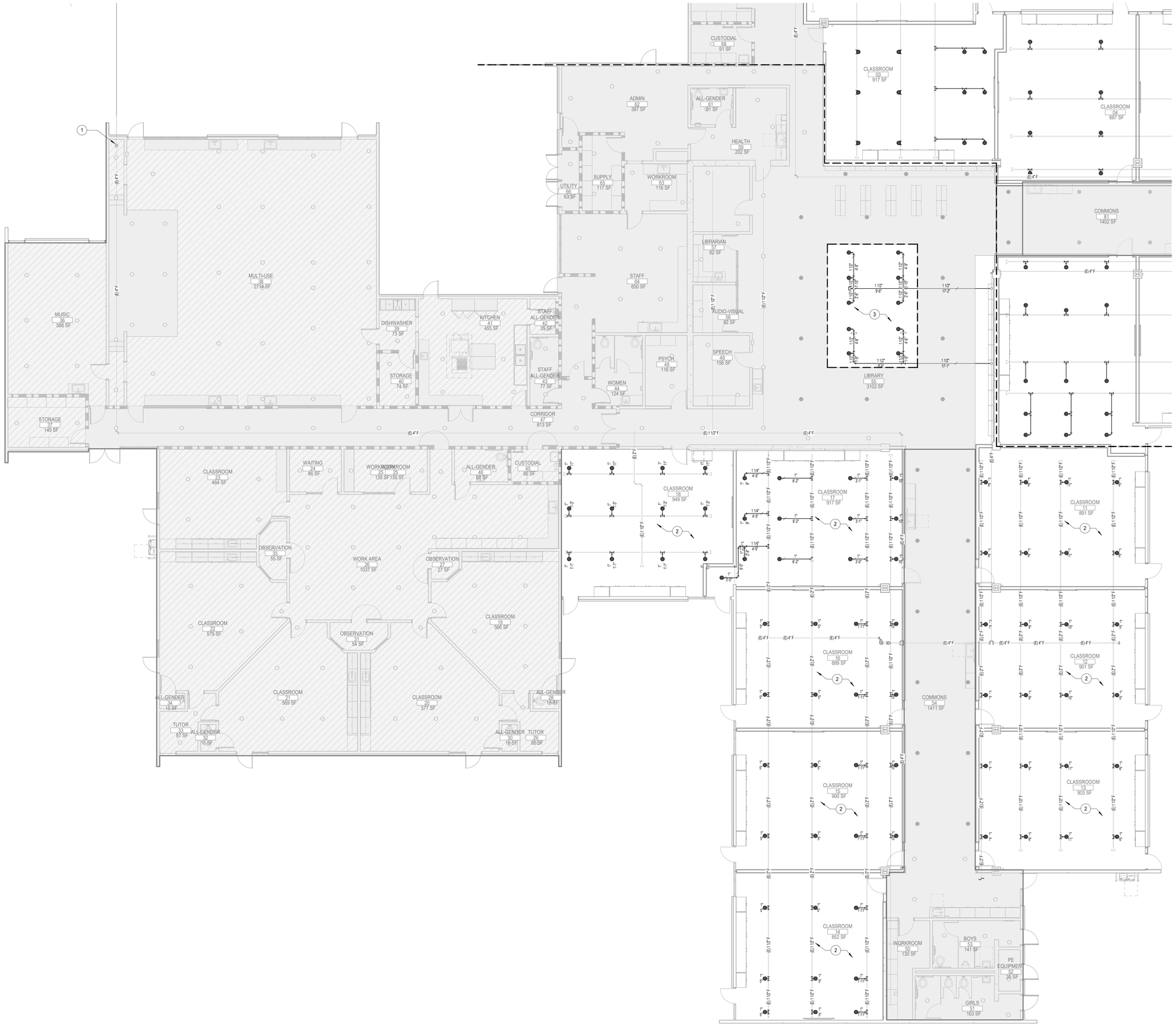
JOB # 2024022

SHEET # FP202

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SPRINKLER SCHEDULE AND LEGEND

SYMBOL	COUNT	MANUFACTURER	SIN#	K-FACTOR	THREAD SIZE	RESPONSE	COVERAGE	ORIENTATION	TEMP.	DEFLECTOR MATERIAL	FRAME MATERIAL	COMMENTS
●	177	VIKING CORP	VK302	5.6	1/2"	Quick	Standard	PENDENT	155 °F	VK - Brass	VK - Brass	



SHEET NOTES:

1. PENDENT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. EXISTING END OF LINE RESTRAINTS TO REMAIN. ONLY PROVIDE NEW END OF LINE RESTRAINTS AS REQUIRED PER NFPA 13 SEC. 18.6.1.
3. UNSUPPORTED ARM OVER LENGTHS SHALL BE LESS THAN 24" ADD HNAGER IF EXISTING PIPING EXCEEDS THIS MINIMUM REQUIREMENT.
4. DISTANCE FROM UPRIGHT HEADS TO HANGER SHALL BE MIN 3" PER NFPA 13 SEC 17.4.3.3
5. DISTANCE FROM END SPRINKLER TO LAST HANGER ON LINE SHALL BE AS REQUIRED PER NFPA 13 SEC 17.4.3.4
6. LIGHT HAZARD OCCUPANCY ROOMS UNDER 800 SF SHALL BE ALLOWED HEAD SPACING PER NFPA 13 SEC. 10.2.5.2.3
7. DRAINS AT LOW POINTS IN THE SYSTEMS SHALL BE PROVIDED PER NFPA 13 SEC 16.10.5.2
8. ALL CONCEALED COMBUSTIBLE SPACE SHALL REMAIN FULLY COVERED BY EXISTING SYSTEM.
9. EXISTING GRAVITY AND SEISMIC SUPPORTS ARE EXISTING TO REMAIN.

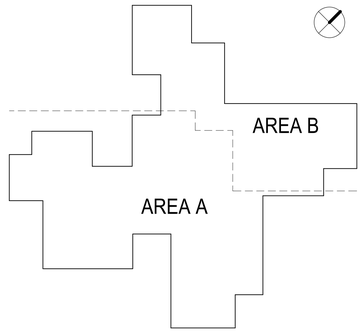
KEYED NOTES:

1. (E) 4" FIRE RISER TO SPRINKLER SYSTEM
2. PROVIDE NEW SPRINKLER HEAD, ARMOVER PIPING, DROP PIPING, AND ASSOCIATED FITTINGS BACK TO BRANCH LINE CONNECTIONS.
3. CONNECT NEW HEADS AT HIGH CEILING AND CLOUD CEILING TO NEAREST BRANCH LINE AT THIS LOCATION.

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

KEY MAP



1 FP301 — FIRE PROTECTION FLOOR PLAN - PART A

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

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — JOHN C. EVANS — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

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STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
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50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FIRE PROTECTION FLOOR PLAN - BUILDING A PART A

DATE 09/05/2025

JOB # 2024022

SHEET # FP301

4/16/2026 2:38:58 PM

SPRINKLER SCHEDULE AND LEGEND

SYMBOL	COUNT	MANUFACTURER	SIN#	K-FACTOR	THREAD SIZE	RESPONSE	COVERAGE	ORIENTATION	TEMP.	DEFLECTOR MATERIAL	FRAME MATERIAL	COMMENTS
●	177	VIKING CORP	VK302	5.6	1/2"	Quick	Standard	PENDENT	155 °F	VK - Brass	VK - Brass	



1 FP302 FIRE PROTECTION FLOOR PLAN - PART B

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

SHEET NOTES:

1. PENDENT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. EXISTING END OF LINE RESTRAINTS TO REMAIN. ONLY PROVIDE NEW END OF LINE RESTRAINTS AS REQUIRED PER NFPA 13 SEC. 18.6.1.
3. UNSUPPORTED ARM OVER LENGTHS SHALL BE LESS THAN 24" ADD HNAGER IF EXISTING PIPING EXCEEDS THIS MINIMUM REQUIREMENT.
4. DISTANCE FROM UPRIGHT HEADS TO HANGER SHALL BE MIN 3" PER NFPA 13 SEC 17.4.3.3
5. DISTANCE FROM END SPRINKLER TO LAST HANGER ON LINE SHALL BE AS REQUIRED PER NFPA 13 SEC 17.4.3.4
6. LIGHT HAZARD OCCUPANCY ROOMS UNDER 800 SF SHALL BE ALLOWED HEAD SPACING PER NFPA 13 SEC. 10.2.5.2.3
7. DRAINS AT LOW POINTS IN THE SYSTEMS SHALL BE PROVIDED PER NFPA 13 SEC 16.10.5.2
8. ALL CONCEALED COMBUSTIBLE SPACE SHALL REMAIN FULLY COVERED BY EXISTING SYSTEM.
9. EXISTING GRAVITY AND SEISMIC SUPPORTS ARE EXISTING TO REMAIN.

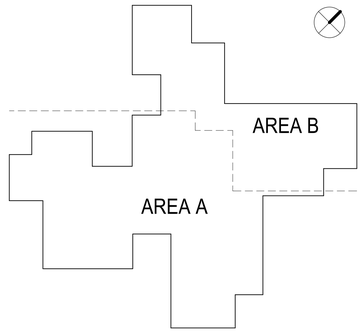
KEYED NOTES:

1. PROVIDE NEW SPRINKLER HEAD, ARMOVER PIPING, DROP PIPING, AND ASSOCIATED FITTINGS BACK TO BRANCH LINE CONNECTIONS VIA MECHANICAL TEE FOR ALL PENDENT HEADS IN NEW CEILINGS LOCATIONS.
2. CONNECT NEW HEADS AT HIGH CEILING AND CLOUD CEILING TO NEAREST BRANCH LINE AT THIS LOCATION.
3. ADD NEW AUTOAMTIC AIR RELIEF VALVE, INSTALL AT HIGH POINT IN THE SYSTEM.

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

KEY MAP



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fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

PROFESSIONAL ENGINEER — JOHN C. EVANS — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

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DSA SUB	09/05/2025

SHEET

FIRE PROTECTION FLOOR PLAN - BUILDING A PART B

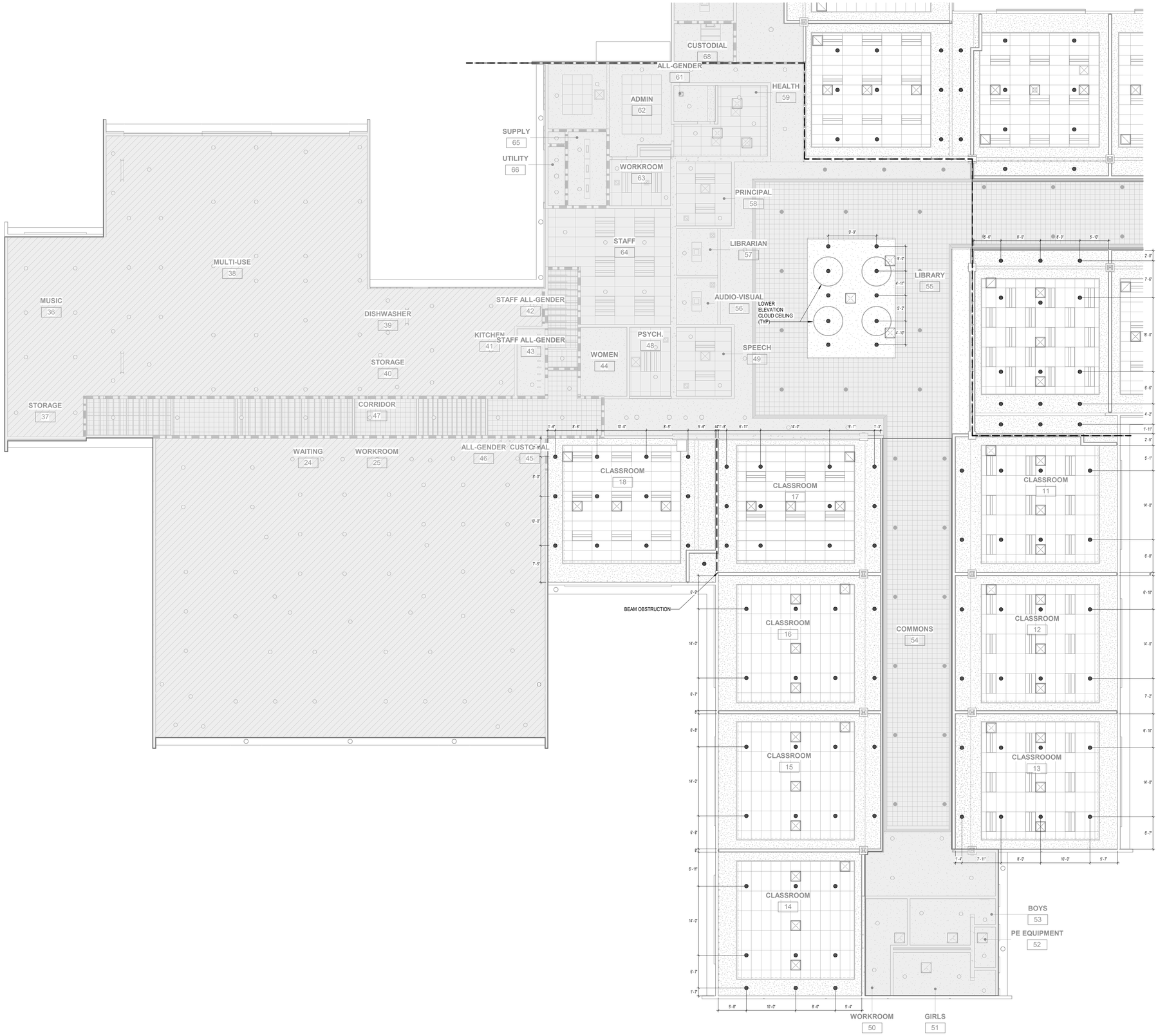
DATE 09/05/2025

JOB # 2024022

SHEET # FP302

4/16/2026 2:39:01 PM

SPRINKLER SCHEDULE AND LEGEND												
SYMBOL	COUNT	MANUFACTURER	SIN#	K-FACTOR	THREAD SIZE	RESPONSE	COVERAGE	ORIENTATION	TEMP.	DEFLECTOR MATERIAL	FRAME MATERIAL	COMMENTS
●	177	VIKING CORP	VK302	5.6	1/2"	Quick	Standard	PENDENT	155 °F	VK - Brass	VK - Brass	



1 FP311 FIRE PROTECTION RCP - PART A

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

SHEET NOTES:

1. PENDENT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. EXISTING END OF LINE RESTRAINTS TO REMAIN. ONLY PROVIDE NEW END OF LINE RESTRAINTS AS REQUIRED PER NFPA 13 SEC. 18.6.1.
3. UNSUPPORTED ARM OVER LENGTHS SHALL BE LESS THAN 24" ADD HNAGER IF EXISTING PIPING EXCEEDS THIS MINIMUM REQUIREMENT.
4. DISTANCE FROM UPRIGHT HEADS TO HANGER SHALL BE MIN 3" PER NFPA 13 SEC 17.4.3.3
5. DISTANCE FROM END SPRINKLER TO LAST HANGER ON LINE SHALL BE AS REQUIRED PER NFPA 13 SEC 17.4.3.4
6. LIGHT HAZARD OCCUPANCY ROOMS UNDER 800 SF SHALL BE ALLOWED HEAD SPACING PER NFPA 13 SEC. 10.2.5.2.3
7. DRAINS AT LOW POINTS IN THE SYSTEMS SHALL BE PROVIDED PER NFPA 13 SEC 16.10.5.2
8. ALL CONCEALED COMBUSTIBLE SPACE SHALL REMAIN FULLY COVERED BY EXISTING SYSTEM.
9. EXISTING GRAVITY AND SEISMIC SUPPORTS ARE EXISTING TO REMAIN.

KEYED NOTES:

1. -

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

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tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — JOHN C. EVANS — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

STAMP

STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	01/23/2025
DD	05/21/2025
50% CD	07/18/2025
90% CD	08/21/2025
DSA SUB	09/05/2025

SHEET

FIRE PROTECTION REFLECTED CEILING PLAN - BUILDING A PART A

DATE 09/05/2025

JOB # 2024022

SHEET # FP311

4/16/2026 2:39:02 PM

SPRINKLER SCHEDULE AND LEGEND

SYMBOL	COUNT	MANUFACTURER	SIN#	K-FACTOR	THREAD SIZE	RESPONSE	COVERAGE	ORIENTATION	TEMP.	DEFLECTOR MATERIAL	FRAME MATERIAL	COMMENTS
●	177	VIKING CORP	VK302	5.6	1/2"	Quick	Standard	PENDENT	155 °F	VK - Brass	VK - Brass	



1 FP312 FIRE PROTECTION RCP - PART B

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

SHEET NOTES:

1. PENDENT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. EXISTING END OF LINE RESTRAINTS TO REMAIN. ONLY PROVIDE NEW END OF LINE RESTRAINTS AS REQUIRED PER NFPA 13 SEC. 18.6.1.
3. UNSUPPORTED ARM OVER LENGTHS SHALL BE LESS THAN 24" ADD HNAGER IF EXISTING PIPING EXCEEDS THIS MINIMUM REQUIREMENT.
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7. DRAINS AT LOW POINTS IN THE SYSTEMS SHALL BE PROVIDED PER NFPA 13 SEC 16.10.5.2
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KEYED NOTES:

1. .

LEGEND:

- HANGER
- BRANCHLINE RESTRAINT
- LATERAL SEISMIC BRACE
- LONGITUDINAL SEISMIC BRACE
- VERTICAL 4-WAY SEISMIC BRACE
- HYDRAULIC REFERENCE NODE (NA TO THIS PROJECT)
- AREA NOT IN SCOPE (NO FIRE SPRINKLER SYSTEM MODIFICATIONS) - EXISTING SPRINKLER HEADS IN THIS AREA TO REMAIN.

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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — DAN CE CHU — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 04/16/2026

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STATE

DSA FILE NUMBER 43-41

APPL # 01-122542

REVISIONS

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SHEET

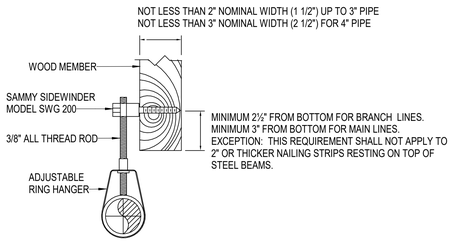
FIRE PROTECTION REFLECTED CEILING PLAN - BUILDING A PART B

DATE 09/05/2025

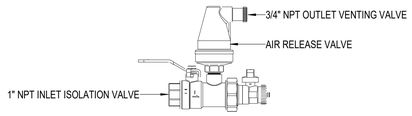
JOB # 2024022

SHEET # FP312

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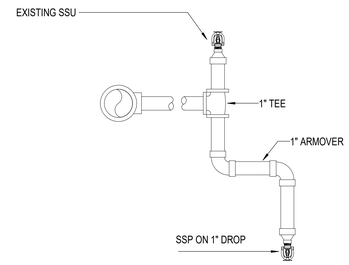
13 FP501 **HANGER - WOOD - SAMMY**
SCALE: NTS



AIR VENTING SHALL BE PROVIDED NEAR A HIGH POINT
IN THE SYSTEM PER NFPA 13 SEC 16.7.7

NOTE: PROVIDE NEW AUTOMATIC
AIR VENT AT HIGH POINT IN THE
EXISTING SYSTEM.

9 FP501 **AUTOMATIC AIR VENT**
SCALE: NTS



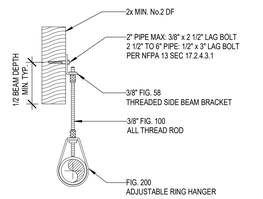
5 FP501 **PIPING - ROOSTERTAIL**
SCALE: NTS







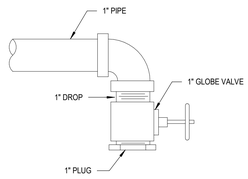
2 FP501 **EXISTING FIRE RISER**
SCALE: NONE



2x WOOD ROOF JOISTS AND
ALL GLU-LAM BEAMS

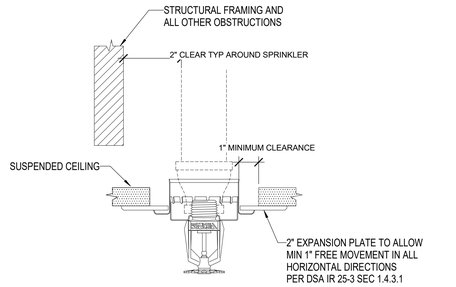
14 FP501 **HANGER - WOOD - SIDE BEAM**
SCALE: NTS

DRAIN SIZING CHART PER NFPA 13 2022 SECTION 16.10.5.2	
TRAPPED WATER QUANTITY	**DRAINING METHOD**
> 50 gal	1 IN AUX DRAIN WITH VALVE PIPED TO ACCESSIBLE LOCATION
5 gal - 50 gal	3/4 IN AUX DRAIN WITH VALVE AND PLUG NIPPLE AND CAP
< 5 gal	1/2 IN AUX DRAIN WITH PLUG NIPPLE AND CAP SINGLE PENDANT SPRINKLER

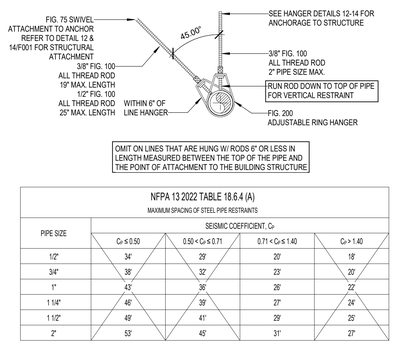


AUX DRAINS SHALL BE PROVIDED AT LOW POINTS
IN SYSTEM PER NFPA 13 SEC 16.10.5

10 FP501 **AUXILIARY DRAIN**
SCALE: N/A



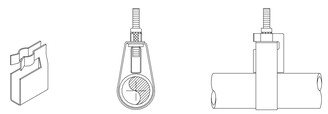
6 FP501 **SPRINKLER - PENDENT THROUGH CEILING**
SCALE: NTS



OMIT ON LINES THAT ARE HUNG W/ RODS 6" OR LESS IN
LENGTH MEASURED BETWEEN THE TOP OF THE PIPE AND
THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE

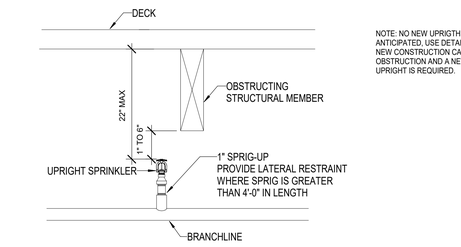
NFPA 13 2022 TABLE 18.6.4 (A) MAXIMUM SPACING OF STEEL PIPE RESTRAINTS				
PIPE SIZE	SEISMIC COEFFICIENT, C_s			
	$C_s \le 0.50$	$0.50 < C_s \le 0.71$	$0.71 < C_s \le 1.40$	$C_s > 1.40$
1/2"	34'	29'	20'	18'
3/4"	38'	32'	23'	20'
1"	43'	36'	26'	22'
1 1/4"	46'	39'	27'	24'
1 1/2"	49'	41'	29'	25'
2"	53'	45'	31'	27'

15 FP501 **BRANCH LINE RESTRAINT**
SCALE: NTS



SURGE RETRAINT IS DESIGNED TO RESTRAIN THE
UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING
SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

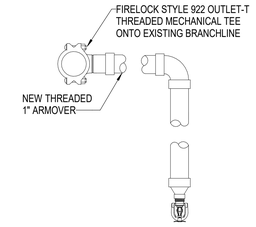
11 FP501 **SURGE RESTRAINT**
SCALE: NTS



NOTE: NO NEW UPRIGTH ARE
ANTICIPATED, USE DETAIL ONLY IF
NEW CONSTRUCTION CAUSES AN
OBSTRUCTION AND A NEW
UPRIGHT IS REQUIRED.

SPRINKLER DEFLECTOR SHALL BE LOCATED
IN ACCORDANCE WITH NFPA 13 SEC 10.2.6.1.2

7 FP501 **SPRINKLER - OBSTRUCTED CONSTRUCTION**
SCALE: NTS

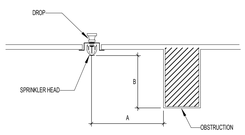


MECHANICAL TEES SHALL NOT BE USED IN NEW CONSTRUCTION PROJECTS
AND SHALL ONLY BE USED IN RETROFITS AND TENANT IMPROVEMENTS

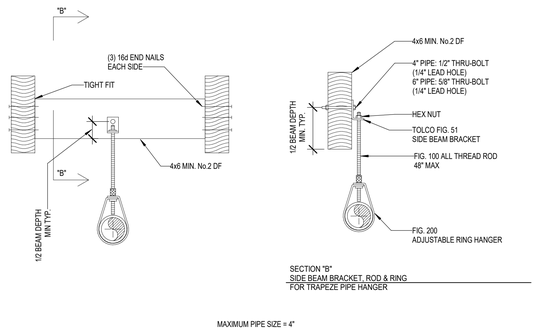
3 FP501 **PIPING - MECHANICAL TEE**
SCALE: NTS

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A) (FT.)	MAX. ALLOWANCE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B) (IN.)
LESS THAN 1	0
1 OR MORE	2½ OR LESS
1½ OR MORE	3½ OR LESS
2 OR MORE	5½ OR LESS
2½ OR MORE	7½ OR LESS
3 OR MORE	9½ OR LESS
3½ OR MORE	12 OR LESS
4 OR MORE	14 OR LESS
4½ OR MORE	16½ OR LESS
5 OR MORE	18 OR LESS
5½ OR MORE	20 OR LESS
6 OR MORE	24 OR LESS
6½ OR MORE	30 OR LESS
7 OR MORE	35 OR LESS

PER NFPA 13 TABLE 10.2.7.2:
POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)



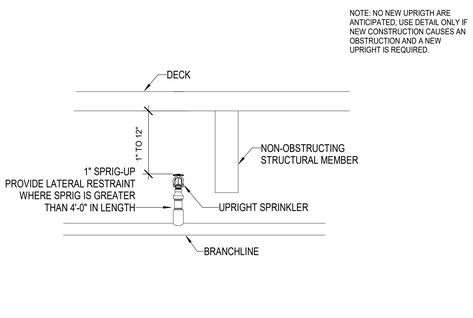
16 FP501 **TABLE - OBSTRUCTIONS - NFPA 13 10.2.7.2**
SCALE: NONE



SECTION "B"
SIDE BEAM BRACKET, ROD & RING
FOR TRAPEZE PIPE HANGER

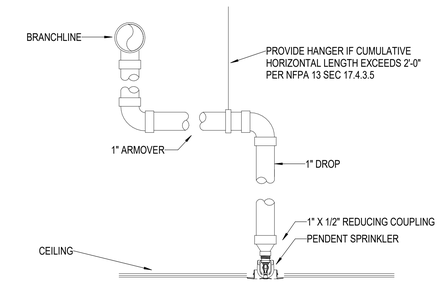
MAXIMUM PIPE SIZE = 4"

12 FP501 **HANGER - TRAPEEZE**
SCALE: NTS



NOTE: NO NEW UPRIGTH ARE
ANTICIPATED, USE DETAIL ONLY IF
NEW CONSTRUCTION CAUSES AN
OBSTRUCTION AND A NEW
UPRIGHT IS REQUIRED.

8 FP501 **SPRINKLER - UNOBSTRUCTED CONSTRUCTION**
SCALE: NTS



4 FP501 **PIPING - ARMOVER**
SCALE: NTS

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PROJECT

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OAK GROVE SCHOOL
DISTRICT

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - LY/SL/DL — PM - DESIGN TEAM
240671.00 — PROJECT NO.

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

DATE SIGNED: 04/16/2026

STAMP

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DSA FILE NUMBER	43-41
APPL #	01-122542

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DSA SUB	09/05/2025

SHEET

FIRE PROTECTION DETAILS

DATE 09/05/2025
JOB # 2024022
SHEET # FP501

4/16/2026 2:39:04 PM

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING
- (D) CONDUIT - TO BE REMOVED
- (N) DEVICE OR EQUIPMENT (EXAMPLE)
- (E) DEVICE OR EQUIPMENT (EXAMPLE)
- (D) DEVICE OR EQUIPMENT TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING
- CONDUIT - EXPOSED
- CONDUIT - UNDERGROUND / DIRECT BURIAL
- CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/1P BRANCH CIRCUITS SHALL BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND GROUNDS RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT
- CONDUIT - FLEX WITH CONNECTION
- CONDUIT - STUB UP
- CONDUIT - STUB DOWN
- CONDUIT - EMERGENCY POWER SYSTEM
- CONDUIT - CAPPED
- CONDUIT - CONTINUATION
- SURFACE MOUNTED WIRE RACEWAY - INSTALL AT + 36" AFF UON.
- SURFACE MOUNTED WIRE RACEWAY UP/DOWN
- IN-GRADE PULL BOX. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM:
  P = POWER
  C = COMMUNICATIONS
  F = FIRE ALARM
  L = LIGHTING

POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

- TRANSFORMER (SINGLE LINE)
- TRANSFORMER (RISER)
- STANDARD / EMERGENCY PANEL BOARD
- STANDARD / EMERGENCY DISTRIBUTION PANELBOARD
- SWITCHBOARD
- EMERGENCY GENERATOR
- CIRCUIT BREAKER, DRAW-OUT, 3-POLE UON.
- CIRCUIT BREAKER, 3-POLE UON.
- FUSED SWITCH, 3-POLE UON.
- AUXILIARY CONTACT - NORMALLY OPENED.
- AUXILIARY CONTACT - NORMALLY CLOSED.
- AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS.
- GROUND ROD
- METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE.
  U = UTILITY METER
  M# = OWNER METER, SEE SPECIFICATIONS
- METER INSTALLED WITHIN EQUIPMENT
- METER IN STANDALONE ENCLOSURE
- CURRENT TRANSFORMERS
- TRANSIENT VOLTAGE SURGE SUPPRESSOR

ABBREVIATIONS

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING	NIC	NOT IN CONTRACT
ABV	ABOVE	EOL	END OF LINE RESISTOR	NIEC	NOT IN ELECTRICAL CONTRACT
AF	AMPERE FRAME, AMPERE FUSE	EQP	EQUIPMENT	NO	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM	NTS	NOT TO SCALE
AIC	AMPERE INTERRUPTING CAPACITY	FACP	FIRE ALARM CONTROL PANEL	NUM, #	NUMBER
ARCH	ARCHITECTURAL	(F)	FUTURE	OC	ON CENTER
AS	AMPERE SWITCH	FIN	FINISH	P	POLE
AT	AMPERE TRIP	FLR	FLOOR	PA	PUBLIC ADDRESS
ATS	AUTOMATIC TRANSFER SWITCH	G, GND	GROUND	PB	PULL BOX
BKR	BREAKER	GRC	GALVANIZED RIGID CONDUIT	PF	POWER FACTOR
BLDG	BUILDING	HGT	HEIGHT	PH	PHASE
C	CONDUIT	HP	HORSEPOWER	PNL	PANEL
CATV	CABLE TELEVISION	IC	INTERCOM	PVC	POLYVINYL CHLORIDE
CB	CIRCUIT BREAKER	IDF	INTERMEDIATE DISTRIBUTION FRAME	(R)	EXISTING TO BE RELOCATED
CBC	CALIFORNIA BUILDING CODE	IMC	INTERMEDIATE METAL CONDUIT	REQD	REQUIRED
CD	CANDELA	INFO	INFORMATION	REQT(S)	REQUIREMENT(S)
CEC	CALIFORNIA ELECTRICAL CODE	JB	JUNCTION BOX	RM	ROOM
CFC	CALIFORNIA FIRE CODE	KAIC	KILOAMPERE INTERRUPTING CAPACITY	RSC	RIGID STEEL CONDUIT
CKT	CIRCUIT	KV	KILOVOLT	SAD	SEE ARCHITECTURAL DOCUMENTS
CL	CENTER LINE	KVA	KILOVOLT AMPERE	SHT	SHEET
CLG	CEILING	KW	KILOWATT	SPD	SURGE PROTECTIVE DEVICE
CO	CONDUIT ONLY	LTG	LIGHTING	STC	SIGNAL TERMINAL CABINET
COMM	COMMUNICATIONS	LV	LOW VOLTAGE	SW	SWITCH
CSFM	CALIFORNIA STATE FIRE MARSHALL	MAX	MAXIMUM	SWBD	SWITCHBOARD
CTR	CENTER	KCMIL	THOUSAND CIRCULAR MILS	T24	CALIFORNIA ENERGY CODE
(D)	DEMOLISH	MDF	MAIN DISTRIBUTION FRAME	TC	TERMINAL CABINET
DET	DETAIL	MECH	MECHANICAL	TEL	TELEPHONE
DIM	DIMENSION	MH	MANHOLE	TYP	TYPICAL
DIST	DISTRIBUTION	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DP	DISTRIBUTION PANEL	MTD	MOUNTED	V	VOLT
DWG	DRAWING	MTG	MOUNTING	W	WATT, WIRE
(E)	EXISTING	NC	NORMALLY CLOSED	WP	WEATHERPROOF
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	XFMR	TRANSFORMER
E	EMERGENCY				

POWER DISTRIBUTION SYMBOLS (PLANS)

- PANELBOARD - FLUSH MOUNTED.
- PANELBOARD - SURFACE MOUNTED.
- DISTRIBUTION PANEL
- SWBD — SWITCHBOARD
- PULL — SWITCHBOARD SECTION - PULL SECTION
- MTR — SWITCHBOARD SECTION - METER SECTION
- MAIN — SWITCHBOARD SECTION - MAIN BREAKER SECTION
- MTR/MN — SWITCHBOARD SECTION - METER AND MAIN BREAKER SECTION
- DIST — SWITCHBOARD SECTION - DISTRIBUTION SECTION
- MOTOR
- EQUIPMENT WITHOUT MOTOR
- EQUIPMENT WITH MOTOR
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MAGNETIC STARTER/FUSED DISCONNECT SWITCH
- MAGNETIC STARTER - NEMA SIZE INDICATED.
- VFD — VARIABLE FREQUENCY DRIVE
- MOTOR RATED SWITCH
- T — TRANSFORMER
- GROUND ROD
- G — GENERATOR
- CH 2 — EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE
  "CH" = EQUIPMENT TYPE
  "2" = UNIQUE IDENTIFIER
- P C — TRAFFIC RATED

RECEPTACLE AND POWER SYMBOLS

POKE THRU	FLR	WALL	CLG	AT HGT	
					SIMPLEX RECEPTACLES
					DUPLEX RECEPTACLES
					QUADRUPLEX RECEPTACLES
					GFCI DUPLEX RECEPTACLES
					GFCI QUADRUPLEX RECEPTACLES
					HALF-CONTROLLED DUPLEX RECEPTACLES
					HALF-CONTROLLED QUADRUPLEX RECEPTACLES
X	X	X			SPECIAL DUPLEX RECEPTACLES, SEE BELOW
X	X	X			SPECIAL QUADRUPLEX RECEPTACLES, SEE BELOW
		$			HALF-SWITCHED RECEPTACLES
	J	J	J		JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3 / +"Y" R1-3 / X R1-3

"R1" DENOTES PANEL NAME
"3" DENOTES CIRCUIT NUMBER
"X" DENOTES SPECIAL RECEPTACLE TYPE (IF APPLICABLE)
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

SPECIAL RECEPTACLE DESIGNATIONS

LTR	RATING	NEMA	PLUG TYPE PROVIDED WITH EQUIP
A	125V, 1Ø, 30A, 2P, 3W	5-30R	WITH 5-30P PLUG
B	125V, 1Ø, 50A, 2P, 3W	5-50R	WITH 5-50P PLUG
C	125/250V, 1Ø, 20A, 3P, 4W	14-20R	WITH 14-20P PLUG
D	125/250V, 1Ø, 30A, 3P, 4W	14-30R	WITH 14-30P PLUG
F	125/250V, 1Ø, 50A, 3P, 4W	14-50R	WITH 14-50P PLUG
G	125/250V, 1Ø, 60A, 3P, 4W	14-60R	WITH 14-60P PLUG
H	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
J	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
K	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
L	-	-	"L" INDICATES ASSOCIATED RECEPTACLE IS LOCKING TYPE, PROVIDE MATCHING PLUG FOR EACH RECEPTACLE
M	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
N	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
P	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
R	250V, 3Ø, 20A, 3P, 4W	15-20R	WITH 15-20P PLUG
S	250V, 3Ø, 30A, 3P, 4W	15-30R	WITH 15-30P PLUG
T	250V, 3Ø, 50A, 3P, 4W	15-50R	WITH 15-50P PLUG
U	125V, 1Ø, 20A, 2P, 3W	5-20R	(2) INTEGRAL USB PORTS, SEE SPECS
V	480V, 3Ø, 30A, 3P, 4W	L16-30R	WITH L16-30P PLUG
X	125V, 1Ø, 20A, 2P, 3W	5-20R	ISOLATED GROUND WITH INTEGRAL TRANSIENT SUPPRESSOR AND DEDICATED GREEN/YELLOW CONDUCTOR BACK TO GROUND BUS AT PANEL
Y	125V, 1Ø, 20A, 2P, 3W	5-20R	DEDICATED CIRCUIT
Z	125V, 1Ø, 15A, 2P, 3W	5-15R	DEDICATED CIRCUIT

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
3. FOR HALF-SWITCHED RECEPTACLES, MOUNT SWITCH AT 48" AFF TO CENTER OF SWITCH, UON
4. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.
5. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT..
6. FOR SPECIAL RECEPTACLES, QTY OF WIRES SHOWN INCLUDES GROUND.
7. FOR SPECIAL RECEPTACLES, COORDINATE WIRE SIZE, WIRE QUANTITY, CONDUIT SIZE, AND RECEPTACLE TYPE WITH ACTUAL EQUIPMENT SUBMITTED AND PURCHASED. EQUIPMENT NOTED ON PLANS SHALL BE CONSIDERED AS THE BASIS OF DESIGN AND CONTRACTOR SHALL PROVIDE CONNECTIVITY AS REQUIRED FOR ACTUAL EQUIPMENT PURCHASED AND INSTALLED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.
8. REACH RANGES FOR ELECTRICAL SWITCHES, CONTROLS AND OUTLETS 11B-308.1.1 & 11B-308.1.2. REACH RANGES FOR THERMOSTATS, SWITCHES, CONTROLS, AND OUTLETS TO BE SHALL COMPLY WITH 11B-308 EXCEPT THAT LOW REACH SHALL BE 15" MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE 48" MEASURED TO THE TOP OF THE OUTLET BOX. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM.

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN UTHORIZATION OF THE CONSULTANT.

ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.65, 13.66, 13.67, AND 13.68; 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 AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

ELECTRICAL DISTRIBUTION SYSTEM (E):

- [X] IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN. SHEET NUMBERS: E800
- [ ] IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL.
  OPM NUMBERS:
  SHEET NUMBERS:
- [ ] IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL.

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET 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 OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS R 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTRE OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT, IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE ATTACHMENTS OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED TO DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTRE OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. 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 HUNG FROM A WALL.

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

SHEET LIST ELECTRICAL

Sheet Number	Sheet Name
E000	GENERAL INFORMATION
E001	GENERAL INFORMATION
E100	DEMO SITE PLAN
E101	SITE PLAN
E200	DEMO LIGHTING PLAN - PART A
E201	DEMO LIGHTING PLAN - PART B
E210	DEMO POWER AND LOW VOLTAGE PLAN - PART A
E211	DEMO POWER AND LOW VOLTAGE PLAN - PART B
E300	NEW LIGHTING PLAN - PART A
E301	NEW LIGHTING PLAN - PART B
E400	NEW POWER AND LOW VOLTAGE PLAN - PART A
E401	NEW POWER AND LOW VOLTAGE PLAN - PART B
E600	DIAGRAMS LIGHTING
E610	DIAGRAMS LOW VOLTAGE
E700	SCHEDULES LIGHTING
E720	SCHEDULES PANELBOARDS
E721	SCHEDULES PANELBOARDS
E800	DETAILS
E801	DETAILS
E802	DETAILS
E900	TITLE 24 INTERIOR LIGHTING
E910	TITLE 24 INTERIOR LIGHTING
E920	TITLE 24 EXTERIOR LIGHTING
E930	TITLE 24 POWER

GENERAL NOTES (ALL SHEETS)

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. 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.

E. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

F. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

G. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

H. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. THE USE OF ROMEX (NMC), METAL CLAD (MC) OR 8X (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

I. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

J. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

K. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

L. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

M. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

N. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

O. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.

P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

Q. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

R. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

S. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

T. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1

U. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

V. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN FIRE SAFETY PLAN.

GENERAL SYMBOLS

- 3 / E2.1 — PLAN OR DETAIL DESIGNATION
  "3" DENOTES DETAIL OR PLAN NUMBER
  "E2.1" DENOTES SHEET NUMBER.
- 3 / - — "-" DENOTES SAME SHEET.
- 2 / E1.0 — SECTION OR ELEVATION DESIGNATION
  "2" DENOTES SECTION OR ELEVATION NUMBER
  "E1.0" DENOTES SHEET NUMBER.
- 2 / - — "-" DENOTES SAME SHEET.
- # — SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
- #### — FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
- #### — CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

BUILDING PROFESSIONAL ENGINEER — DAVID MAINO — EXPIRES 08/31/2026 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32

APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

GENERAL INFORMATION

DATE 09/05/25

JOB # 2023025

SHEET # E000

16-04-2026 18:51:00

COMMUNICATIONS HEADEND EQUIPMENT SYMBOLS

	SIGNAL TERMINAL CABINET - FLUSH MOUNTED
	SIGNAL TERMINAL CABINET - SURFACE MOUNTED
	COMMUNICATION BACKBOARD - 4' X 8' PLYWOOD BACKING
	DISTRIBUTION FRAME - FLOOR MOUNTED RACKS AND WIRE MANAGEMENT
	DISTRIBUTION FRAME - WALL MOUNTED RACK

AUDIO / VISUAL DEVICE SYMBOLS

RECESSED	WALL	CLG	
C	C	C	CLOCK. 3/4" C. W/ (1) DATA CABLE
S S	S	S	SPEAKER. 3/4" C. W/ (1) DATA CABLE
S C	S C		COMBINATION CLOCK/SPEAKER, +96"AFF UON. 3/4" C. W/ (1) DATA CABLE
	V $		DIGITAL PA SYSTEM CALL SWITCH, MOUNT AT 48" AFF TO TOP OF BOX. 3/4" C. W/ (1) DATA CABLE

POKE THRU	FLR	WALL	CLG	AT HGT	
					MICROPHONE OUTLET
					CABLE TV / "F" TYPE CONNECTOR OUTLET
AV	AV	AV	AV		AUDIO VISUAL CONNECTOR OUTLET(S)
	J	J	J		JUNCTION BOX

FLOOR, FIXED	WALL	FLOOR, MOBILE	
TP	TP	TP	AUDIO VISUAL TOUCH PANEL LOCATION
CP	CP	CP	AUDIO VISUAL BUTTON CONTROL PANEL LOCATION

TYPICAL AUDIO / VISUAL DEVICE NOMENCLATURE

+Y" X

"X" DENOTES DEVICE ID# (IF APPLICABLE)
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
3. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.
4. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES.COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.
5. REFER TO AUDIO / VISUAL DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
6. WHERE RECESSED AV WALL BOXES ARE PROVIDED FOR FLAT PANEL DISPLAYS, LOCATE AV, COMMUNICATIONS, AND POWER DEVICES WITHIN THE SAME RECESSED BOX.
7. AV SYSTEMS SHALL BE OFCI. CONTRACTOR SHALL HIRE AN EXTRON CERTIFIED INSTALLER TO INSTALL ALL AV SYSTEM EQUIPMENT IN CLASSROOMS AND CONFERENCE ROOMS.

COMMUNICATIONS DEVICE SYMBOLS

POKE THRU	FLR	WALL	CLG	AT HGT	
					PHONE OUTLET
					DATA OUTLET
					COMBINATION PHONE/DATA OUTLETS
		W	W	W	WIRELESS ACCESS POINT DATA OUTLET
TF	TF	TF			FURNITURE FEED - TELECOM CONNECTIONS
	J	J	J		JUNCTION BOX

TYPICAL COMMUNICATIONS DEVICE NOMENCLATURE

+Y" X

"X" DENOTES DEVICE ID# (IF APPLICABLE)
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
3. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.
4. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.
5. REFER TO COMMUNICATIONS DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
6. COORDINATE REQUIREMENTS AND INSTALLATION OF FURNITURE FEED CONNECTIONS WITH FURNITURE MANUFACTURER.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2022 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNINGS.
11. 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

AUDIO/VISUAL DEVICE SCHEDULE

SYMBOL WALL	SYMBOL AT HGT	ID #	CABLE TYPE AND QTY 1	2	3	4	5	6	FACEPLATE	CONDUIT	RING TYPE	BOX TYPE	NOTES
	+Y"	N/A	m	-	-	-	-	-	1-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1,2
AV	+Y" AV	N/A	x	x	x	x	x	x	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	1,2,3,10
CP	+Y" CP	N/A	o	-	-	-	-	-	N/A	1"	PER MANUFACTURER	PER MANUFACTURER	1,2,3,4
TP	+Y" TP	N/A	o	-	-	-	-	-	N/A	1"	PER MANUFACTURER	PER MANUFACTURER	1,2,4
C	+Y" C	N/A	k	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2
S	+Y" S	N/A	r	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2
S L	+Y" S L	N/A	q	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2
S C	+Y" S C	N/A	r	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2
FLR	POKE												
AV	AV	N/A	m	-	-	-	-	-	1-PORT	1"	MANUF. BRACKET	SEE SPECIFICATIONS	1,2,7,8
		N/A	x	x	x	x	x	x	AS REQ'D	AS REQ'D	MANUF. BRACKET	SEE SPECIFICATIONS	1,2,7,8
FIXED	MOBILE												
CP	CP	N/A	o	-	-	-	-	-	N/A	1"	MANUF. BRACKET	SEE SPECIFICATIONS	1,2,4,5,6
TP	TP	N/A	o	-	-	-	-	-	N/A	1"	MANUF. BRACKET	SEE SPECIFICATIONS	1,2,4,5,6
CLG													
		N/A	m	-	-	-	-	-	1-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1,2,9
AV		N/A	x	x	x	x	x	x	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	1,2,3,9
C		N/A	k	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2,9
S		N/A	r	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2,9
S L		N/A	q	-	-	-	-	-	N/A	3/4"	PER MANUFACTURER	PER MANUFACTURER	1,2,9

CABLE TYPE AND TERMINATION

ID	CABLE TYPE	TERMINATION AT TELECOM RM	TERMINATION AT AV EQUIP	TERMINATION AT OUTLET	NOTES
k	CLOCK CABLE	66-BLOCK	N/A	HARDWIRED	1,2
m	MICROPHONE CABLE	N/A	3-PIN XLR JACK	3-PIN XLR JACK	1,2
o	CONTROL CABLE	N/A	HARDWIRED	HARDWIRED	1,2
q	AV SPEAKER CABLE	N/A	HARDWIRED	HARDWIRED	1,2
r	PA SPEAKER CABLE	66-BLOCK	N/A	HARDWIRED	1,2
x	AV CABLE	SEE PLAN/RISER	SEE PLAN/RISER	SEE PLAN/RISER	1,2,10

NOTES

1. REFER TO RISER DIAGRAMS, PLANS, AND SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS. COORDINATE ALL CONNECTION AND INSTALLATION REQUIREMENTS WITH MANUFACTURER PRIOR TO PURCHASE AND INSTALL. PROVIDE ALL MISC. APPURTENANCES REQUIRED FOR A COMPLETE SYSTEM. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CABLING, TERMINAL BLOCKS, PATCH PANELS, JACKS, AND OTHER MISC. APPURTENANCES.
2. CONDUIT AND BACK-BOX SIZES SHOWN ASSUME BASIS OF DESIGN CABLE MANUFACTURER. COORDINATE EXACT CONDUIT SIZING WITH OUTSIDE DIAMETER OF ACTUAL CABLE MANUFACTURER SELECTED FOR THE PROJECT.
3. AV CONNECTIONS AND CABLING NOTED ASSUME THE USE OF THE AUDIO AND VIDEO CABLE TYPES INDICATED. IF CATEGORY CABLING IS USED IN LIEU OF AUDIO/VIDEO CABLING, PROVIDE ALL MISC. APPURTENANCES AS REQUIRED FOR A COMPLETE INSTALLATION UTILIZING CATEGORY WIRING INSTEAD.
4. COORDINATE EXACT CABLING REQUIREMENTS FOR CONTROL PANEL CONTROL WIRING WITH MANUFACTURER.
5. PROVIDE FIXED CONTROL PANELS WITH HARDWIRED WHIP OF LENGTH AS REQUIRED TO REACH FROM FIXED LOCATION IN FURNITURE SYSTEM TO FLOOR BOX CONNECTION POINT. PROVIDE MISC. APPURTENANCES WITHIN FLOOR BOX AS REQUIRED TO CONNECT WHIP TO AV HEADEND EQUIPMENT.
6. PROVIDE MOBILE CONTROL PANELS WITH FLEXIBLE WHIP MINIMUM 10'-0" IN LENGTH TO REACH FROM MOBILE LOCATION IN FURNITURE SYSTEM TO FLOOR BOX CONNECTION POINT. PROVIDE MISC. APPURTENANCES WITHIN FLOOR BOX AS REQUIRED TO CONNECT WHIP TO AV HEADEND EQUIPMENT.
7. PROVIDE MANUFACTURER'S MOUNTING BRACKETS FOR INSTALLATION OF AUDIO/VISUAL DEVICES WITHIN FLOOR BOX OR POKE-THRU.
8. IN-SLAB CONDUIT FOR FLOOR BOXES SHALL BE ROUTED BACK TO AV EQUIPMENT SERVING DEVICE. CONDUIT FOR POKE-THRUS SHALL STUB DOWN TO FLOOR BELOW AND ROUTED BELOW CEILING TO STUB BACK UP TO AV EQUIPMENT SERVING DEVICE.
9. PROVIDE T-BAR HANGAR OR OTHER MEANS OF SECURING BACKBOX TO CEILING AS REQUIRED.
10. REFER TO PLANS, RISERS, AND SPECIFICATIONS FOR EXACT WIRING, TERMINATION, AND OUTLET REQUIREMENTS FOR ALL AV DEVICES. PROVIDE SIZE OF CONDUIT, SIZE OF BACK BOX, AND TYPE OF FACEPLATE AS REQUIRED TO FIT ALL DEVICES AND WIRING CALLED FOR ON PLANS AND RISERS.

LIGHTING CONTROLS SYMBOLS

	OCCUPANCY SENSOR - CEILING MOUNT WITH BI-DIRECTIONAL VIEW. ARROWS INDICATE AIMING DIRECTION.
	OCCUPANCY SENSOR - CEILING MOUNT WITH 360° VIEW
	OCCUPANCY SENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
P	PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
P	PHOTOSENSOR - CEILING MOUNT WITH 360° VIEW.
P	PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
$	SINGLE POLE SWITCH - WALL MOUNTED AT + 48" AFF UON.
TS	TIME SWITCH
LCP	LIGHTING CONTROL PANEL
RC	SWITCHING ROOM CONTROLLER
DRC	DIMMING ROOM CONTROLLER
RRC	RECEPTACLE ROOM CONTROLLER
NB	NETWORK BRIDGE
SM	SEGMENT MANAGER

TYPICAL SWITCH NOMENCLATURE

X y $

"y" DENOTES SWITCH LEG
"X" DENOTES SWITCH TYPE
D = DIMMER SWITCH
K = KEY OPERATED SWITCH
L = LOW VOLTAGE ON/OFF SWITCH
Lx = LOW VOLTAGE MULTI-BUTTON SWTICH
M = MOMENTARY CONTACT SWITCH
T = DIGITAL WALL TIMER
S = OCCUPANCY SENSOR SWITCH
BLANK = SINGLE POLE SWITCH
3 = 3 WAY SWITCH
4 = 4 WAY SWITCH

TYPICAL SWITCH NOMENCLATURE (CONT'D)

X $

"X" DENOTES SENSOR TYPE
BLANK = DUAL TECHNOLOGY
D = DUAL TECHNOLOGY
P = PASSIVE INFRARED
U = ULTRASONIC

L x $

LOW VOLTAGE MULTI-BUTTON SWITCH
"x" DENOTES SWITCH UNIQUE SWITCH IDENTIFIER
(SEE SCHEDULE FOR SWITCH LEGS/RELAYS CONTROLLED)

D xyz $

DIMMING MULTI-BUTTON SWITCH
"x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED

x $ y $ z $

MULTIPLE SWITCHES LOCATED WITHIN A SINGLE WALL PLATE "x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED

NOTES

1. INSTALL SWITCHING AND DIMMING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING. FOR ROOMS WITH GYP BD OR OTHER INACCESSIBLE CEILINGS, PROVIDE 2'X2' ACCESS PANEL WITHIN ARMS LENGTH OF WHERE DEVICES ARE MOUNTED. WHERE INSTALLATION OF AN ACCESS PANEL IS NOT POSSIBLE, INSTALL DEVICES IN CONCEALED IN ADJACENT ACCESSIBLE SPACE AND PROVIDE TYPED, SELF ADHESIVE LABEL NOTING WHICH ROOM THE DEVICES CONTROL.
2. PROVIDE SINGLE WALL PLATE FOR MULTIPLE SWITCHES LOCATED TOGETHER. PROVIDE APPROPRIATE QUANTITY, SIZE, AND SHAPE OF CUT OUTS TO ACCOMMODATE ALL DEVICES AT THAT LOCATION (E.G. REGULAR TOGGLE SWITCH VS. DECORATOR STYLE DEVICE). ALL WALLPLATES SHALL BE FACTORY CUT, NO FIELD CUT OPENINGS SHALL BE ALLOWED.
3. DEVICE LOCATIONS ON PLANS ARE APPROXIMATE AND DIAGRAMMATIC. CONTRACTOR SHALL INSTALL DEVICES PER CODE REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
4. LIGHT SWITCHES SHALL NOT BE LOCATED BEHIND ROOM DOORS WHEN DOORS ARE FULLY OPENED. LOCATE ALL SWITCHES SUCH THAT THEY ARE VISIBLE AND ACCESSIBLE WHEN THE DOOR IS FULLY OPEN.

COMMUNICATIONS DEVICE SCHEDULE

SYMBOL WALL	SYMBOL AT HGT	ID #	CABLE TYPE AND QTY 1	2	3	4	5	6	FACEPLATE	CONDUIT	RING TYPE	BOX TYPE	NOTES
		N/A	a	-	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1,3
X	X	A	a	a	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1
		B	a	a	a	a	-	-	4-PORT	1-1/4"	TWO-GANG	4-11/16" x 4-11/16" x 3"	1
		N/A	b	-	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1,3
X	X	F	f	f	-	-	-	-	N/A	1"	N/A	4-11/16" x 4-11/16" x 2-1/8"	7,10
		L	l	l	-	-	-	-	N/A	1"	N/A	4-11/16" x 4-11/16" x 2-1/8"	8,10
		S	s	s	-	-	-	-	N/A	1"	N/A	4-11/16" x 4-11/16" x 2-1/8"	9,10
		N/A	a	b	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	1,3
X	X	B	b	a	a	a	-	-	4-PORT	1-1/4"	TWO-GANG	4-11/16" x 4-11/16" x 3"	1
FLR	POKE												
		N/A	a	-	-	-	-	-	2-PORT	1"	MANUF. BRACKET	SEE SPECIFICATIONS	2,3,4
X	X	A	a	a	-	-	-	-	2-PORT	1"	MANUF. BRACKET	SEE SPECIFICATIONS	2,4
		B	a	a	a	a	-	-	4-PORT	1-1/4"	MANUF. BRACKET	SEE SPECIFICATIONS	2,4
		N/A	b	-	-	-	-	-	2-PORT	1"	MANUF. BRACKET	SEE SPECIFICATIONS	2,3,4
		N/A	a	b	-	-	-	-	2-PORT	1"	MANUF. BRACKET	SEE SPECIFICATIONS	2,3,4
X	X	B	b	a	a	a	-	-	4-PORT	1-1/4"	MANUF. BRACKET	SEE SPECIFICATIONS	2,4
		E	b	b	a	a	a	a	6-PORT	1-1/4"	MANUF. BRACKET	SEE SPECIFICATIONS	2,4
CLG													
		N/A	a	-	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	3,5
X		A	a	a	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	5
		B	a	a	a	a	-	-	4-PORT	1-1/4"	TWO-GANG	4-11/16" x 4-11/16" x 3"	5
		N/A	b	-	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	3,5
		N/A	a	b	-	-	-	-	2-PORT	1"	SINGLE-GANG	4-11/16" x 4-11/16" x 2-1/8"	3,5
X		B	b	a	a	a	-	-	4-PORT	1-1/4"	TWO-GANG	4-11/16" x 4-11/16" x 3"	5
		E	b	b	a	a	a	a	6-PORT	1-1/4"	TWO-GANG	4-11/16" x 4-11/16" x 3"	5

CABLE TYPE AND TERMINATION

ID	CABLE TYPE	TERMINATION AT TELECOM RM	INTERMEDIATE TERMINATION	TERMINATION AT OUTLET	NOTES
a	DATA STATION	RACK MOUNTED PATCH PANELS	N/A	MODULAR JACK	6
b	PHONE STATION	RACK MOUNTED PATCH PANELS	N/A	MODULAR JACK	6
f	PHONE STATION	RACK MOUNTED PATCH PANELS	N/A	HARDWIRED TO EQUIPMENT	6
l	PHONE STATION	RACK MOUNTED PATCH PANELS	N/A	HARDWIRED TO EQUIPMENT	6
s	PHONE STATION	RACK MOUNTED PATCH PANELS	N/A	HARDWIRED TO EQUIPMENT	6

NOTES

1. STUB CONDUIT ABOVE ACCESSIBLE CEILING OR TO CLOSEST CONCEALED ACCESSIBLE LOCATION. PROVIDE BUSHINGS AT CONDUIT OPENING.
2. PROVIDE MANUFACTURER'S MOUNTING BRACKETS FOR INSTALLATION OF TELE/DATA DEVICES WITHIN FLOOR BOX OR POKE-THRU.
3. EXTRA PORTS SHALL BE PROVIDED WITH BLANK JACK COVER, COLOR TO MATCH DEVICE FACEPLATE.
4. IN-SLAB CONDUIT FOR FLOOR BOXES SHALL BE ROUTED BACK TO DISTRIBUTION FRAME SERVING DEVICE. CONDUIT FOR POKE-THRUS SHALL STUB DOWN TO FLOOR BELOW AND WIRING SHALL BE ROUTED IN CONDUIT BACK TO NEAREST CONCEALED, ACCESSIBLE SPACE. PROVIDE BUSHINGS AT CONDUIT OPENINGS.
5. PROVIDE T-BAR HANGAR OR OTHER MEANS OF SECURING BACKBOX TO CEILING AS REQUIRED.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CABLING, TERMINAL BLOCKS, PATCH PANELS, JACKS, AND OTHER MISC. APPURTENANCES.
7. PHONE LINES FOR FIRE ALARM PANEL. COORDINATE WITH MANUFACTURER FOR REQUIREMENTS. INSTALL PER MANUFACTURER RECOMMENDATIONS.
8. PHONE LINES FOR ELEVATOR. COORDINATE WITH MANUFACTURER FOR REQUIREMENTS. INSTALL PER MANUFACTURER RECOMMENDATIONS.
9. PHONE LINES FOR SECURITY ALARM PANEL. COORDINATE WITH MANUFACTURER FOR REQUIREMENTS. INSTALL PER MANUFACTURER RECOMMENDATIONS.
10. COIL AND STAGE CABLE FOR FINAL TERMINATION AT EQUIPMENT. PROVIDE FINAL TERMINATION AND TESTING OF WIRING AND COORDINATE WITH EQUIPMENT INSTALLER AS REQUIRED.

LUMINAIRE SYMBOLS

	LUMINAIRE - RECESSED
	LUMINAIRE - SURFACE MOUNT STRIP
	LUMINAIRE - SURFACE MOUNT
	LUMINAIRE - PENDANT MOUNT LINEAR FIXTURE
	LUMINAIRE - WALL MOUNT LINEAR FIXTURE
	LUMINAIRE - RECESSED DOWNLIGHT
	LUMINAIRE - SINGLE WALL WASHER
	LUMINAIRE - DOUBLE WALL WASHER
	LUMINAIRE - CORNER WALL WASHER
	LUMINAIRE - PENDANT MOUNT ROUND FIXTURE
	LUMINAIRE - WALL MOUNT CAN
	LUMINAIRE - WALL MOUNT BOX
	LUMINAIRE - POLE MOUNT SINGLE HEAD
	LUMINAIRE - POLE MOUNT DOUBLE HEAD
	EXIT LIGHT - WALL MOUNT SINGLE FACE
	EXIT LIGHT - CEILING MOUNT DOUBLE FACED
	EXIT LIGHT - WALL MOUNT SINGLE FACE WITH ARROW
	EXIT LIGHT - CEILING MOUNT DOUBLE FACED WITH DOUBLE ARROWS
	EXIT LIGHT - EMERGENCY BATTERY PACK

TYPICAL LUMINAIRE NOMENCLATURE

	UNSHADED SYMBOL DENOTES STANDARD LUMINAIRE
	SHADED SYMBOL DENOTES EMERGENCY LUMINAIRE
A	"A" DENOTES LUMINAIRE TYPE
L1-3b	"L1" DENOTES PANEL NAME "3" DENOTES CIRCUIT NUMBER "b" DENOTES SWITCH LEG

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS, REGARDLESS OF SYMBOL SHOWN ON PLANS. COORDINATE WITH EXACT CEILING CONDITIONS TO PROVIDE ALL MOUNTING HARDWARE AND MISC. APPURTENANCES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. REFER TO LUMINAIRE/FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING, AND LAMPING INFORMATION.
3. SHADED FIXTURES SHALL INDICATE THAT FIXTURE IS CONNECTED TO AN EMERGENCY POWER SOURCE. PROVIDE ALL MISC. APPURTENANCES AS REQUIRED TO ALLOW FIXTURE TO TRANSFER FROM NORMAL TO EMERGENCY POWER. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, TRANSFER MODULES AND/OR UL 924 RELAYS AS REQUIRED TO ALLOW ALL EMERGENCY FIXTURES TO BE CONTROLLED WITH ROOM LIGHTING DURING NORMAL CONDITIONS AND THEN TRANSFER TO EMERGENCY POWER SOURCE UPON LOSS OF NORMAL POWER.
4. PROVIDE ADDITIONAL EXIT SIGNS IN LOCATIONS AS REQUIRED BY INSPECTOR DURING FIELD INSPECTIONS. CONTRACTOR SHALL PROVIDE IN THEIR BID MATERIALS AND INSTALLATION LABOR FOR 5% ADDITIONAL SPARE EXIT SIGNS (MINIMUM OF 1 SIGN) BEYOND THOSE SHOWN ON THE DRAWINGS TO ALLOW FOR FINAL REVIEW, SIGN-OFF, AND APPROVAL BY THE AHJ.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT
atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO ELECTRICAL No. E25036 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
1		

MILESTONES

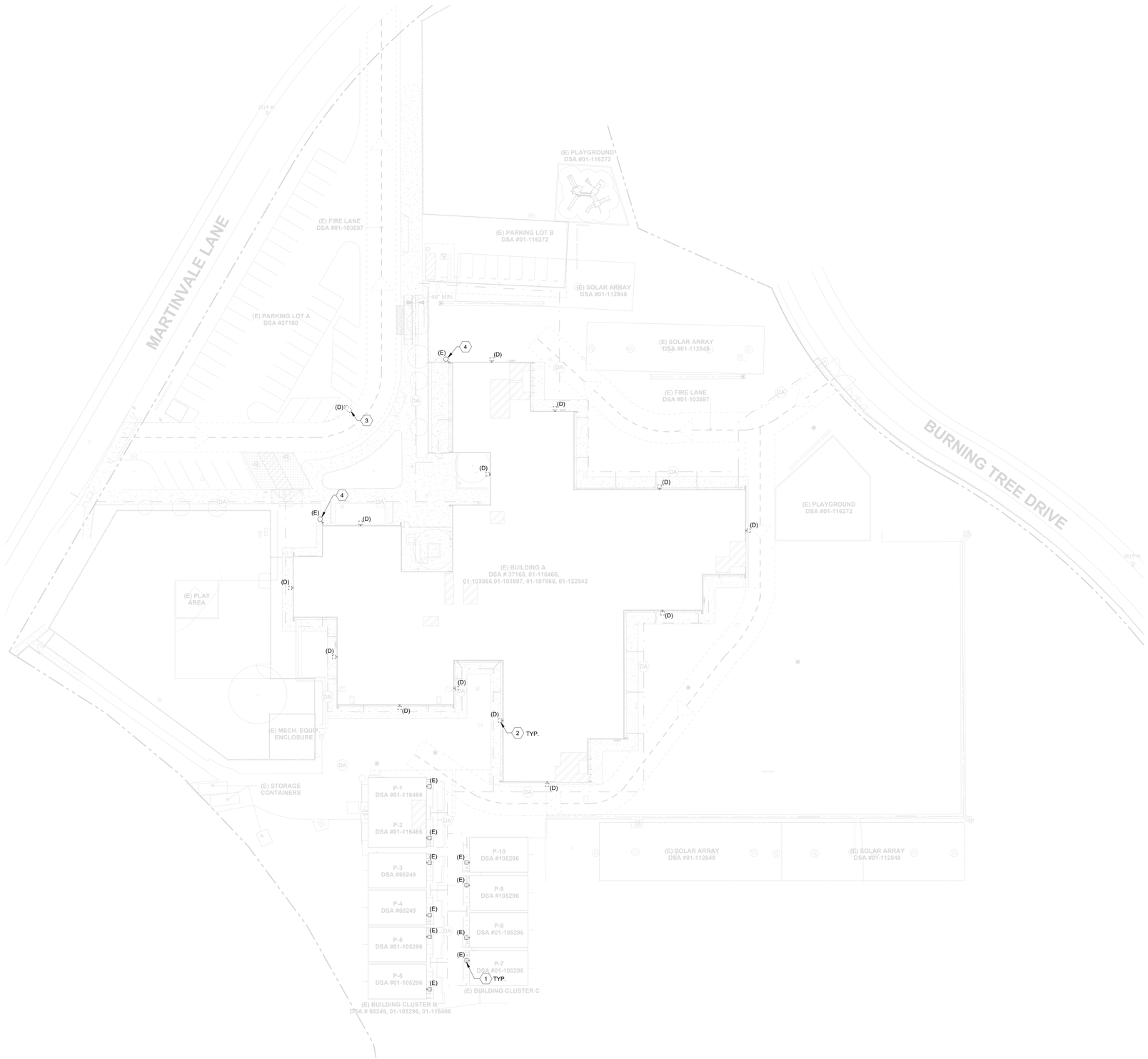
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50% DD
100% DD
50% CD 07.18.2025
95% CD
DSA SUB 09.05.2025

SHEET

GENERAL INFORMATION

DATE 09/05/25
JOB # 2023025
SHEET # E001

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1 ELETRICAL DEMOLITION PLAN - SITE
1" = 30'-0"

N

DEMO GENERAL NOTES:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER.

SHEET NOTES:

1. (E) EXTERIOR LIGHTING ON PORTABLES TO REMAIN.
2. (D) EXISTING WALL MOUNTED LIGHT. MAINTAIN (E) WIRING, CONDUIT, AND BACKBOX FOR RECONNECTION TO NEW FIXTURE.
3. (D) POLE LIGHT IN PARKING LOT. (D) EXISTING POLE, BASE, CONDUIT, WIRE, AND FIXTURE HEAD.
4. (E) FLOOD LIGHT TO REMAIN.

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50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

DEMO SITE PLAN

DATE 09/05/25

JOB # 2023025

SHEET #

E100

16-04-2026 16:51:03

GENERAL NOTES:

A. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

C. CIRCUIT ALL DEVICES ON THIS SHEET TO (E) LIGHTING CIRCUIT, UNLESS OTHERWISE NOTED.

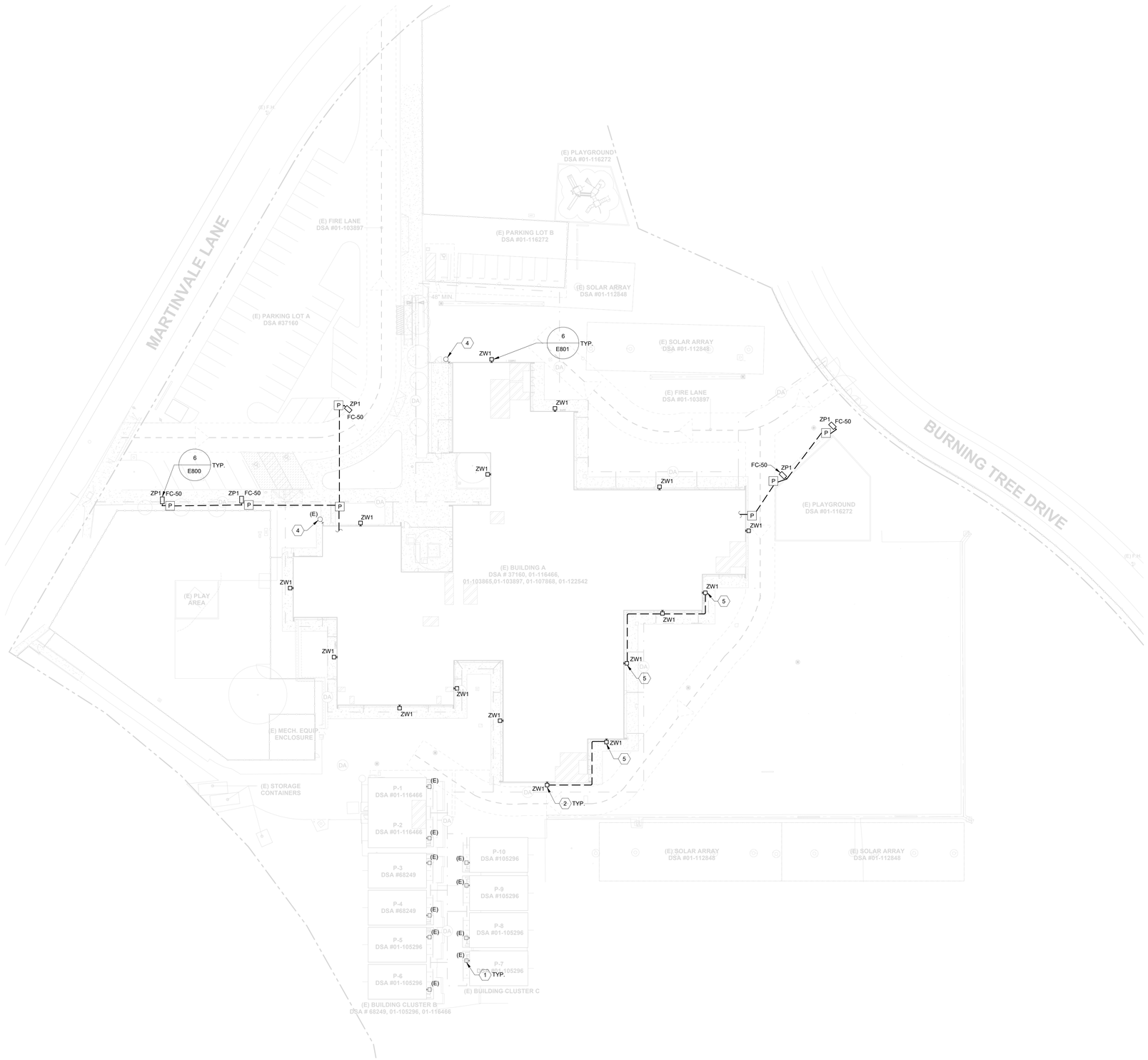
D. CIRCUIT EXTERIOR LIGHT FIXTURES VIA TIMECLOCK CONTROLS.

E. SEE DRAWINGS E800 & E801 FOR LIGHT FIXTURE MOUNTING DETAILS.

F. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

(#) SHEET NOTES:

1. (E) EXTERIOR LIGHTING ON PORTABLES TO REMAIN.
2. INSTALL NEW LIGHT FIXTURE IN SAME LOCATION AS (D) FIXTURE RECONNECT TO (E) CIRCUITRY AND CONTROLS.
3. NOT USED.
4. (E) FLOOD LIGHT TO REMAIN.
5. PROVIDE NEW LIGHT FIXTURE IN THIS LOCATION. PROVIDE SURFACE MOUNTED CONDUIT AND J-BOXES AS REQUIRED FROM NEAREST ADJACENT FIXTURE TO EXTEND POWER TO THIS LOCATION WITH (2) #10 + (1) #10G - 3/4" C. PAINT CONDUIT TO MATCH SURFACE BEYOND.



1 ELETRICAL PLAN - SITE
1" = 30'-0"

N

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REGISTERED PROFESSIONAL ENGINEER DAVID MAINO ELECTRICAL EXPIRES 6-30-26 STATE OF CALIFORNIA

STATE

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No.	Description	Date
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MILESTONES

SD	
50% DD	
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SHEET

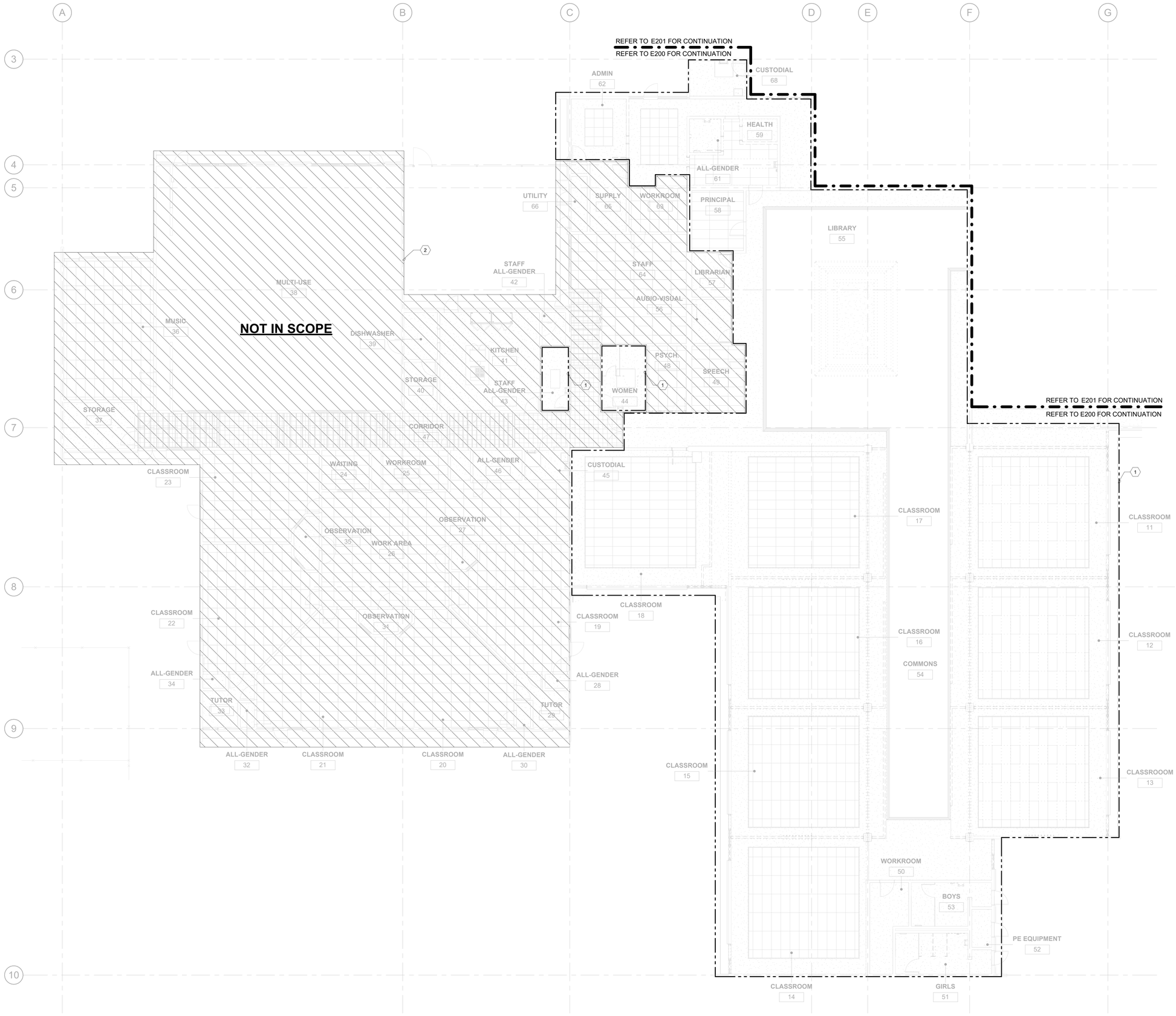
SITE PLAN

DATE 09/05/25

JOB # 2023025

SHEET # E101

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1 BUILDING A - PART A (DEMO)
1/8" = 1'-0"

DEMO GENERAL NOTES:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER

(#) SHEET NOTES:

1. DEMOLITION AREA. REMOVE LIGHTING AND CONTROLS IN THIS AREA, UON. MAINTAIN CIRCUITRY FOR EXTENSION AND RECONNECTION TO NEW LIGHTING AND CONTROLS.

2. (E) LIGHTING AND CONTROLS IN THIS AREA TO REMAIN.

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

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STAMP

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
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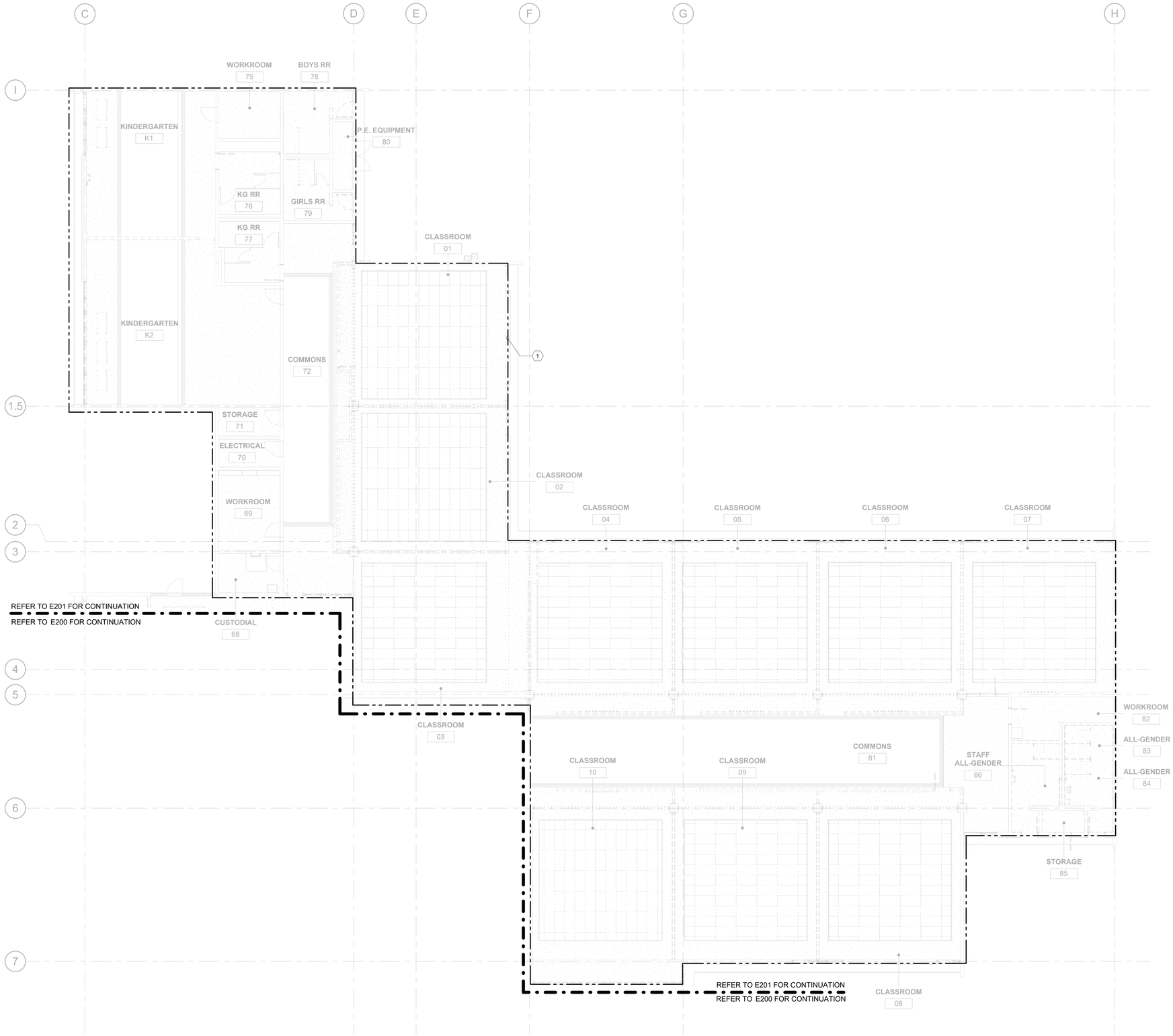
MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET
DEMO LIGHTING PLAN - PART A

DATE 09/05/25
JOB # 2023025
SHEET # E200

16-04-2026 16:51:05



1 BUILDING A - PART B (DEMO)
1/8" = 1'-0"

N

DEMO GENERAL NOTES:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER.

(#) SHEET NOTES:

1. DEMOLITION AREA. REMOVE LIGHTING AND CONTROLS IN THIS AREA, UON. MAINTAIN CIRCUITRY FOR EXTENSION AND RECONNECTION TO NEW LIGHTING AND CONTROLS.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP. 6-30-26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
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MILESTONES

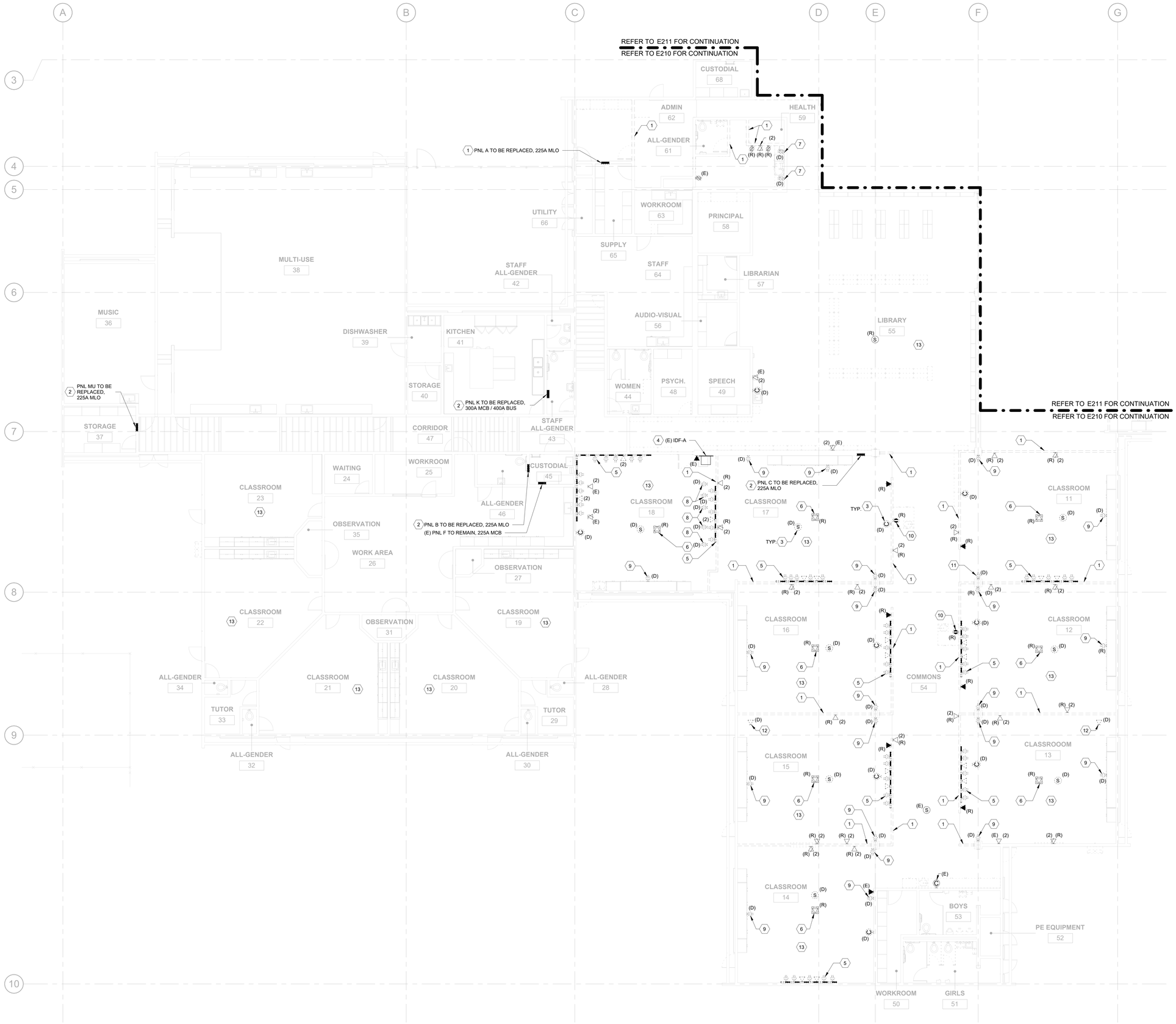
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50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

DEMO LIGHTING PLAN - PART B

DATE	09/05/25
JOB #	2023025
SHEET #	E201

16-04-2026 16:51:06



1 BUILDING A - NEW FLOOR PLAN - PART A
1/8" = 1'-0"

N

DEMO GENERAL NOTES:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER.

(#) SHEET NOTES:

1. (R) DEVICES ON THESE WALLS. REMOVE DEVICE AND PULL BACK CONDUIT AND WIRING TO ALLOW FOR REMOVAL OF WALL. REINSTALL ALL DEVICES AND PROVIDE NEW CONDUIT, WIRE, AND BOXES TO MATCH (E) AS REQUIRED TO REINSTALL DEVICES AND RESTORE TO A FULLY FUNCTIONAL STATE. REFER TO FLOOR PLANS FOR LOCATIONS.
2. (D) EXISTING PANELBOARD. MAINTAIN ALL (E) CIRCUITRY FOR RECONNECTION TO NEW PANEL.
3. (D) EXISTING CLOCK AND SPEAKER IN THIS SPACE. REMOVE WIRING BACK TO SOURCE.
4. (E) IT EQUIPMENT TO REMAIN.
5. (D) EXISTING SURFACE MOUNTED RACEWAY. MAINTAIN (E) POWER CIRCUITRY AND DATA FOR EXTENSION AND RECONNECTION AT NEW DEVICE LOCATIONS REINSTALLATION. REFER TO FLOOR PLANS FOR LOCATIONS.
6. CEILING MOUNTED WAP TO BE REMOVED BY DISTRICT PRIOR TO WORK. CONTRACTOR TO MAINTAIN (E) DATA DROP AND REINSTALL IN NEW CEILING. COORDINATE WITH DISTRICT AND REINSTALL WAP.
7. (E) DEVICE DOES NOT HAVE GFCI PROTECTION. REMOVE (E) RECEPTACLE AND PROVIDE NEW GFCI RECEPTACLE, RECONNECT TO (E) CIRCUITRY.
8. (D) EXISTING DEVICES RUN ON SURFACE MOUNTED CONDUIT TO NEW WALL.
9. (D) EXISTING RECEPTACLE. MAINTAIN BACKBOX AND WIRING. PROVIDE NEW RECEPTACLE AND FACEPLATE AND RECONNECT TO (E) WIRING.
10. (D) EXISTING PEDESTAL MOUNTED RECEPTACLE. MAINTAIN CIRCUITRY FOR REINSTALLATION IN WALL DEVICES.
11. (E) RECEPTACLE IS NON-FUNCTIONAL. (D) EXISTING RECEPTACLE AND WIRING. MAINTAIN BACKBOX AND CONDUIT. PROVIDE NEW WIRING AND RECEPTACLE TO RESTORE DEVICE TO A FULLY FUNCTIONAL STATE.
12. (D) LOOSE DATA CABLE THAT IS HANGING FROM CEILING BACK TO SOURCE.
13. DEMOLISH ALL FLOOR BOXES AND PATCH SURFACE TO MATCH SURROUNDING SURFACES.

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OAK GROVE SCHOOL DISTRICT

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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO ELECTRICAL No. EE 19,306 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

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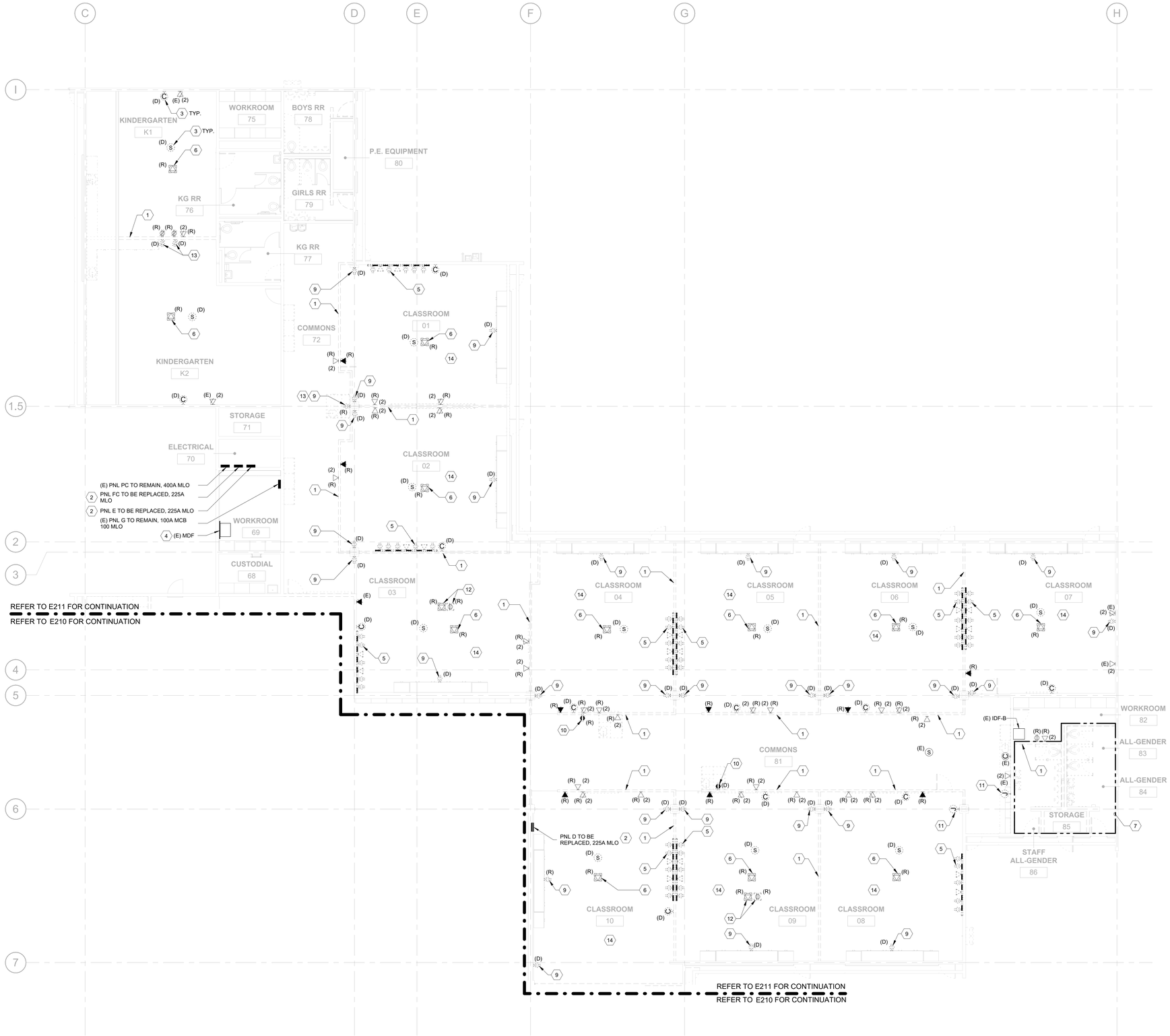
MILESTONES

SD	
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50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET
DEMO POWER AND LOW VOLTAGE PLAN - PART A

DATE 09/05/25
JOB # 2023025
SHEET # E210

16-04-2026 16:51:06



1 BUILDING A - NEW FLOOR PLAN - PART B
1/8" = 1'-0"

N

DEMO GENERAL NOTES:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER.

(#) SHEET NOTES:

1. (R) DEVICES ON THESE WALLS. REMOVE DEVICE AND PULL BACK CONDUIT AND WIRING TO ALLOW FOR REMOVAL OF WALL. REINSTALL ALL DEVICES AND PROVIDE NEW CONDUIT, WIRE, AND BOXES TO MATCH (E) AS REQUIRED TO REINSTALL DEVICES AND RESTORE TO A FULLY FUNCTIONAL STATE. REFER TO FLOOR PLANS FOR LOCATIONS.
2. (D) EXISTING PANELBOARD. MAINTAIN ALL (E) CIRCUITRY FOR RECONNECTION TO NEW PANEL.
3. (D) EXISTING CLOCK AND SPEAKER IN THIS SPACE. REMOVE WIRING BACK TO SOURCE.
4. (E) IT EQUIPMENT TO REMAIN.
5. (D) EXISTING SURFACE MOUNTED RACEWAY. MAINTAIN (E) POWER CIRCUITRY AND DATA FOR EXTENSION AND RECONNECTION AT NEW DEVICE LOCATIONS REINSTALLATION IN NEW SURFACE MOUNTED RACEWAY. REFER TO FLOOR PLANS FOR LOCATIONS.
6. CEILING MOUNTED WAP TO BE REMOVED BY DISTRICT PRIOR TO WORK. CONTRACTOR TO MAINTAIN (E) DATA DROP AND REINSTALL IN NEW CEILING. COORDINATE WITH DISTRICT AND REINSTALL WAP.
7. DEMOLITION AREA. REMOVE POWER AND LOW VOLTAGE DEVICES IN THIS AREA, UON. MAINTAIN CIRCUITRY FOR EXTENSION AND RECONNECTION TO NEW POWER DEVICES.
8. (D) EXISTING DEVICES RUN ON SURFACE MOUNTED RACEWAY TO NEW WALL.
9. (D) EXISTING RECEPTACLE. MAINTAIN BACKBOX AND WIRING. PROVIDE NEW RECEPTACLE AND FACEPLATE AND RECONNECT TO (E) WIRING.
10. (D) EXISTING PEDESTAL MOUNTED RECEPTACLE. MAINTAIN CIRCUITRY FOR REINSTALLATION IN WALL DEVICES.
11. (E) RECEPTACLE IS NON-FUNCTIONAL. (D) EXISTING RECEPTACLE AND WIRING. MAINTAIN BACKBOX AND CONDUIT. PROVIDE NEW WIRING AND RECEPTACLE TO RESTORE DEVICE TO A FULLY FUNCTIONAL STATE.
12. REINSTALL (E) POWER AND DATA DEVICES ON NEW CEILING.
13. (E) DEVICE DOES NOT HAVE GFCI PROTECTION. REMOVE (E) RECEPTACLE AND PROVIDE NEW GFCI RECEPTACLE, RECONNECT TO (E) CIRCUITRY IN NEW LOCATION SHOWN.
14. DEMOLISH ALL FLOOR BOXES AND PATCH SURFACE TO MATCH SURROUNDING SURFACES.

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO ELECTRICAL EXPIRES 09-30-26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

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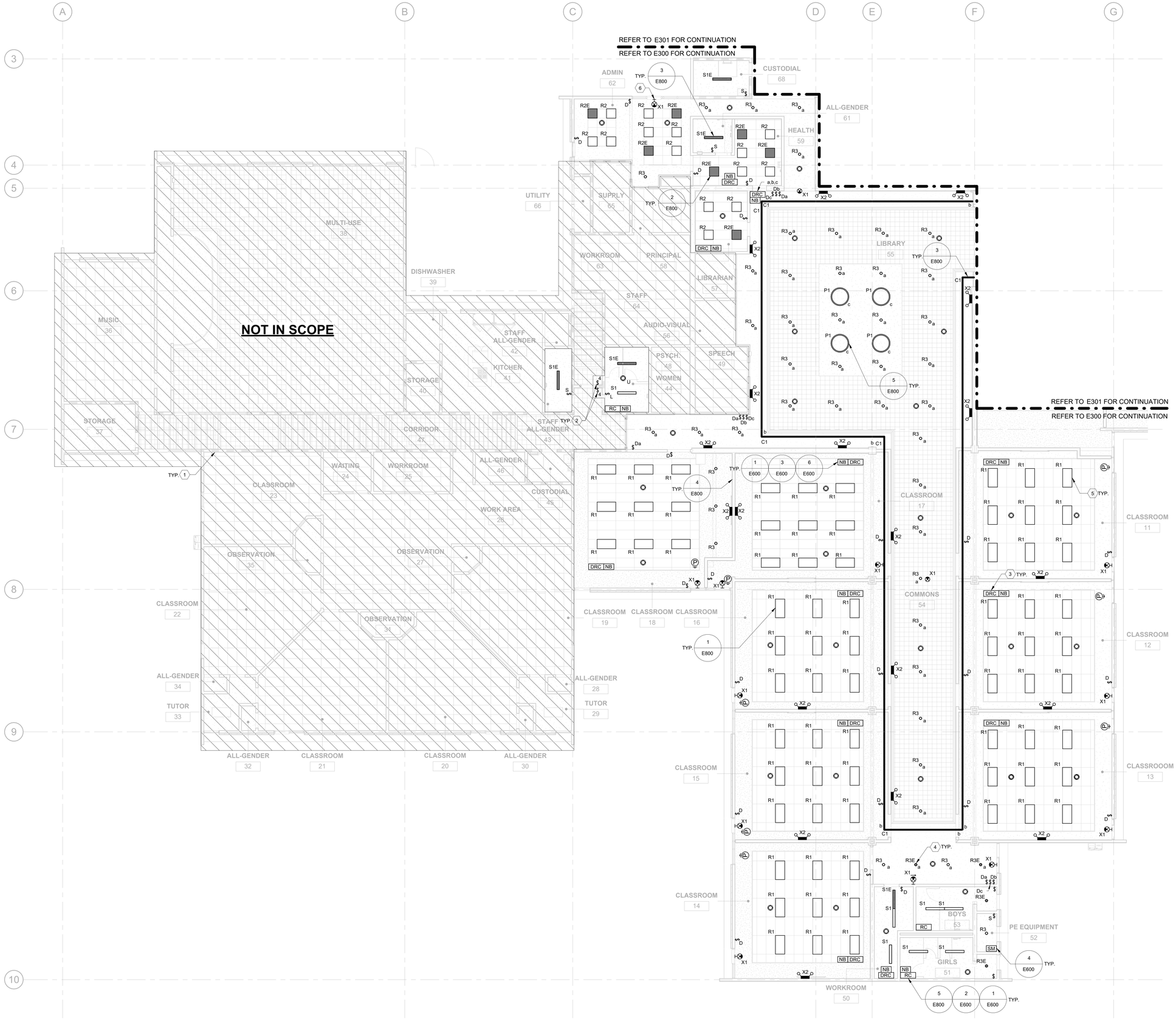
MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET
DEMO POWER AND LOW VOLTAGE PLAN - PART B

DATE 09/05/25
JOB # 2023025
SHEET # E211

16-04-2026 16:51:08



1 PARTIAL REFLECTED CELLING PLAN - BUILDING A (PART A)
1/8" = 1'-0"

N

GENERAL NOTES:

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

E. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO (E) CIRCUIT AND (E) PANELBOARD AS (D) LIGHTING IN THAT AREA, UNLESS OTHERWISE NOTED.

F. SEE DRAWINGS E800 & E801 FOR LIGHT FIXTURE MOUNTING DETAILS.

(#) SHEET NOTES:

1. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.
2. PROVIDE NEW SWITCHES TO CONTROL (E) LIGHTS ON EITHER SIDE OF NEW DOOR. INTERCEPT (E) WIRING AND EXTEND TO NEW SWITCH LOCATIONS.
3. PROVIDE DIMMING OR SWITCHING ROOM CONTROLLER (AS SHOWN) FOR SWITCH LEGS INDICATED. WHERE NO SWITCH LEG IS SHOWN, CONTROLLER SHALL CONTROL ALL SWITCH LEGS WITHIN THE SPACE. MOUNT ABOVE ACCESSIBLE CEILING. IN AREAS WITH GYP BD CEILINGS, PROVIDE 2'X2' ACCESS PANEL BENEATH CONTROLLER FOR ACCESS AND MAINTENANCE.
4. PATCH GYP BD AROUND NEW DOWNLIGHT AND REMOVED DOWNLIGHTS. PROVIDE NEW PENETRATIONS IN (E) GYP WHERE REQUIRED TO INSTALL NEW LIGHTS. TYP ALL NEW DOWNLIGHTS IN GYP CEILINGS.
5. RECONNECT NEW LIGHTING WITHIN EACH SPACE TO (E) LIGHTING CIRCUIT WITHIN THAT SPACE. CIRCUIT ALL EXIT SIGNS AND BUGEYE FIXTURES VIA UNSWITCHED WIRING. CONNECT ALL GENERAL LIGHTING IN EACH SPACE TO THE LIGHTING CONTROLS PROVIDED WITHIN THAT SPACE. PROVIDE NEW CONDUIT AND WIRE, SIZED TO MATCH EXISTING, AS REQUIRED TO EXTEND POWER FROM EXISTING CIRCUITRY TO NEW EQUIPMENT. TYPICAL ALL NEW LIGHTING THROUGHOUT.
6. PROVIDE NEW ILLUMINATED EXIT SIGN ABOVE DOOR. CONNECT TO EXISTING UNSWITCHED CIRCUIT IN THIS AREA.

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXPIRATION 08-31-26 STATE OF CALIFORNIA

STATE
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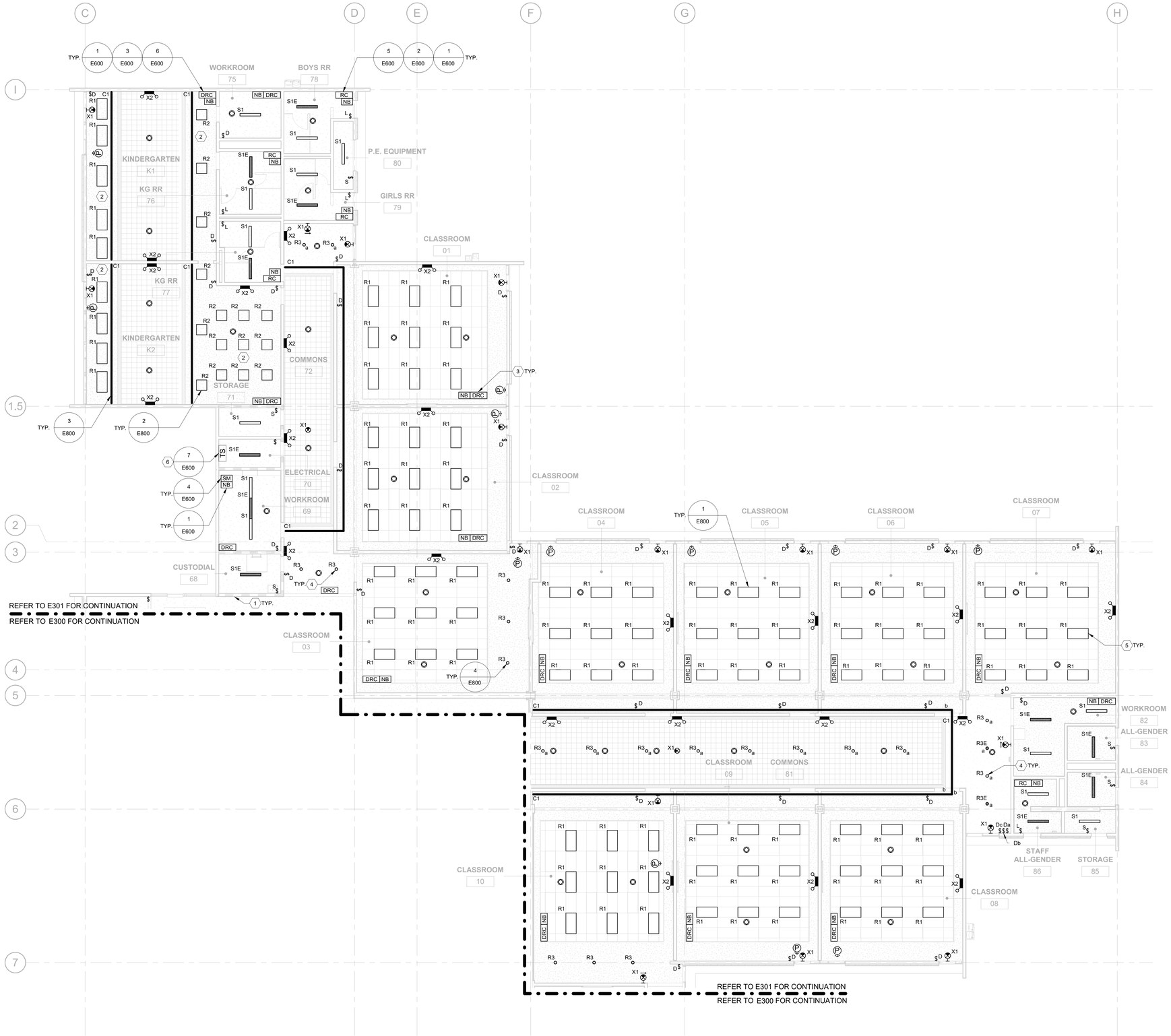
MILESTONES

SD	
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95% CD	
DSA SUB	09.05.2025

SHEET
NEW LIGHTING PLAN - PART A

DATE 09/05/25
JOB # 2023025
SHEET # E300

16-04-2026 16:51:11



1 PARTIAL REFLECTED CELLING PLAN - BUILDING B (PART B)
1/8" = 1'-0"

N

GENERAL NOTES:

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

E. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO (E) CIRCUIT AND (E) PANELBOARD AS (D) LIGHTING IN THAT AREA, UNLESS OTHERWISE NOTED.

F. SEE DRAWINGS E800 & E801 FOR LIGHT FIXTURE MOUNTING DETAILS.

(#) SHEET NOTES:

1. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.
2. PROVIDE NEW PENETRATION IN SHEETROCK TO INSTALL NEW RECESSED FIXTURES IN THIS AREA. PATCH AND PAINT SHEETROCK AS REQUIRED TO MATCH ADJACENT SURFACE. COORDINATE EXACT LOCATION WITH FIRE SPRINKLER HEADS.
3. PROVIDE DIMMING OR SWITCHING ROOM CONTROLLER (AS SHOWN) FOR SWITCH LEGS INDICATED. WHERE NO SWITCH LEG IS SHOWN, CONTROLLER SHALL CONTROL ALL SWITCH LEGS WITHIN THE SPACE. MOUNT ABOVE ACCESSIBLE CEILING. IN AREAS WITH GYP BD CEILINGS, PROVIDE 2'X2' ACCESS PANEL BENEATH CONTROLLER FOR ACCESS AND MAINTENANCE.
4. PATCH GYP BD AROUND NEW DOWNLIGHT AND REMOVED DOWNLIGHTS. PROVIDE NEW PENETRATIONS IN (E) GYP WHERE REQUIRED TO INSTALL NEW LIGHTS. TYP ALL NEW DOWNLIGHTS IN GYP CEILINGS.
5. RECONNECT NEW LIGHTING WITHIN EACH SPACE TO (E) LIGHTING CIRCUIT WITHIN THAT SPACE. CIRCUIT ALL EXIT SIGNS AND BUGEYE FIXTURES VIA UNSWITCHED WIRING. CONNECT ALL GENERAL LIGHTING IN EACH SPACE TO THE LIGHTING CONTROLS PROVIDED WITHIN THAT SPACE. PROVIDE NEW CONDUIT AND WIRE, SIZED TO MATCH EXISTING, AS REQUIRED TO EXTEND POWER FROM EXISTING CIRCUITRY TO NEW EQUIPMENT. TYPICAL ALL NEW LIGHTING THROUGHOUT.
6. CIRCUIT NEW EXTERIOR POLE LIGHTING VIA TIMECLOCK.

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STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

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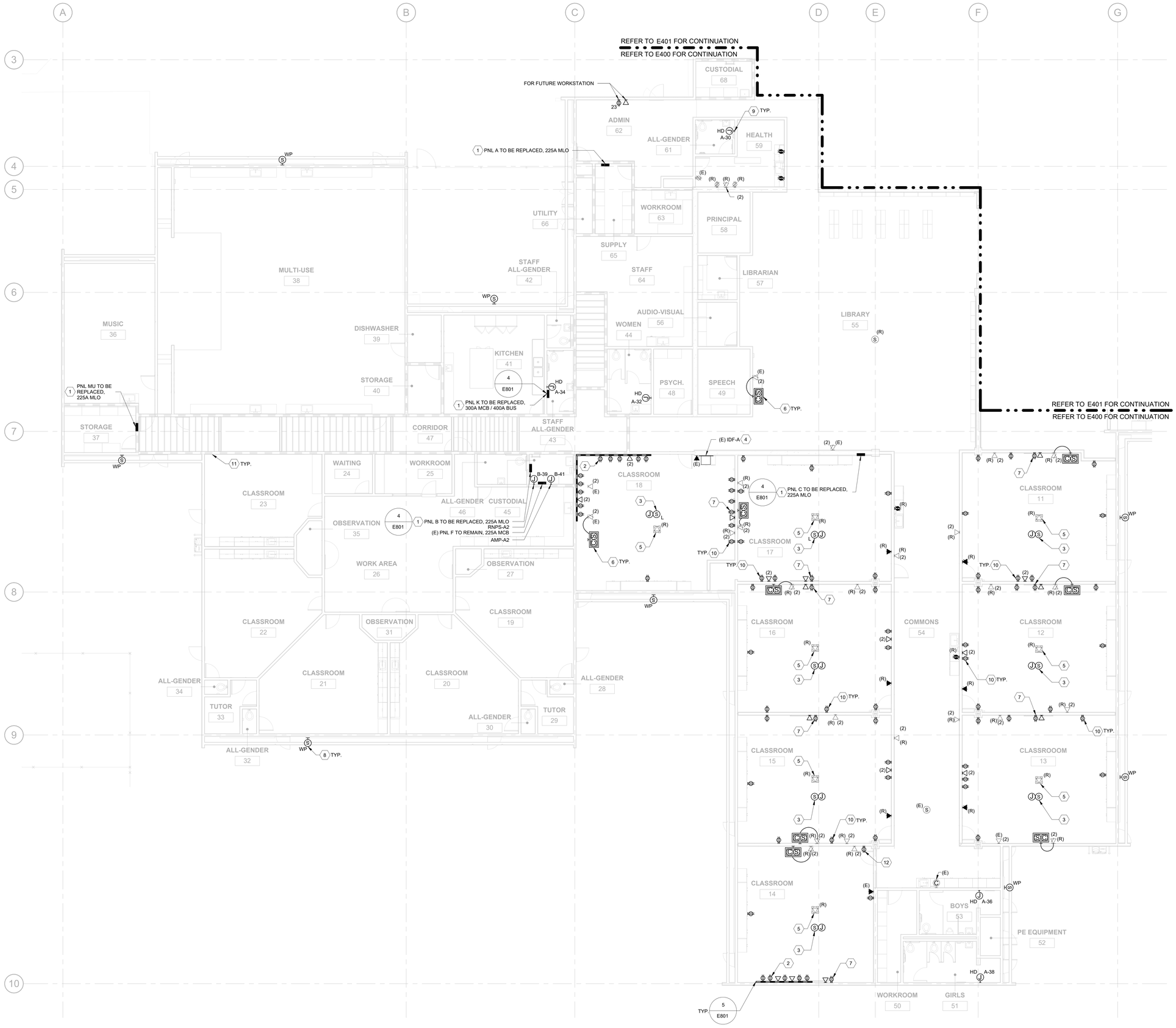
MILESTONES

SD	
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50% CD	07.18.2025
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DSA SUB	09.05.2025

SHEET
NEW LIGHTING PLAN - PART B

DATE 09/05/25
JOB # 2023025
SHEET # E301

16-04-2026 16:51:13



1 PARTIAL FLOOR PLAN - BUILDING A (PART A)
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.

B. CIRCUIT ALL DEVICES ON THIS SHEET TO (E) PANELBOARD AND CIRCUIT THAT (R) AND (E) DEVICES ARE CONNECTED TO, UNLESS OTHERWISE NOTED.

C. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

F. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL AREAS WITHIN EACH KINDER AND TK CLASSROOM AS REQUIRED BY CEC ARTICLE 406.12(A) AND 210.52.

G. RECONNECT ALL NEW AND EXISTING/RELOCATED DEVICES TO EXISTING CIRCUITRY WITHIN EACH SPACE. PROVIDE NEW MC CABLE AND J-BOXES AS REQUIRED, CONCEALED WITHIN WALLS.

(#) SHEET NOTES:

1. REPLACE (E) ZINSCO PANEL WITH NEW PANEL SIZED TO MATCH (E). PROVIDE NEW BREAKERS TO MATCH (E) AND RECONNECT ALL (E) LOADS TO NEW PANEL.
2. PROVIDE NEW MULTI-CHANNEL RACEWAY WITH POWER AND DATA IN SAME LOCATIONS AS (D) ITEMS. RECONNECT POWER TO (E) CIRCUITRY. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO EXTEND TO NEW DEVICE LOCATIONS.
3. OFCI VOICELIFT BLUETOOTH SPEAKER, LIGHTSPEED TEK TOPCAT CASCADIA SERIES. PROVIDE DATA CONNECTION VIA POE DATA SWITCH.
4. (E) IDF TO REMAIN.
5. CONNECT (E) DATA WIRE TO NEW OFCI WIRELESS ACCESS POINT.
6. COORDINATE CLOCK/SPEAKER LOCATION WITH EXISTING DISTRICT-PROVIDED DATA DROPS. ADVANCED NETWORK DEVICES IP SPEAKER WITH HD DISPLAY, IPSWDHD-MW, DISTRICT STANDARD, OFCI.
7. PROVIDE POWER, DATA, AND AV OUTPUT FOR FLAT PANEL DISPLAY COORDINATE EXACT LOCATION WITH BALANCE BOX TV MOUNT INSTALLATION LOCATION. DISPLAY AND MOUNT TO BE OFCI.
8. PROVIDE DATA DROP AND IP SPEAKER, ADVANCED NETWORK DEVICES IPSWS-SM, DISTRICT STANDARD, OFCI.
9. PROVIDE CONNECTION TO HAND DRYER. CIRCUIT WITH (2) #12 + (1) #12G - 3/4"C. OFCI.
10. PROVIDE NEW POWER AND DATA DEVICES RECESSED IN WALL IN NEW LOCATIONS INDICATED. RECONNECT POWER TO (E) CIRCUITRY. PROVIDE NEW CONDUIT, MC CABLE, WIRE, AND BACKBOXES AS REQUIRED TO EXTEND TO NEW DEVICE LOCATIONS. TYP NEW AND RELOCATED DEVICES IN THIS ROOM
11. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.
12. RELOCATE RECEPTACLE IF THE EXISTING LOCATIONS CONFLICTS WITH NEW WALL.

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT
atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO ELECTRICAL STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
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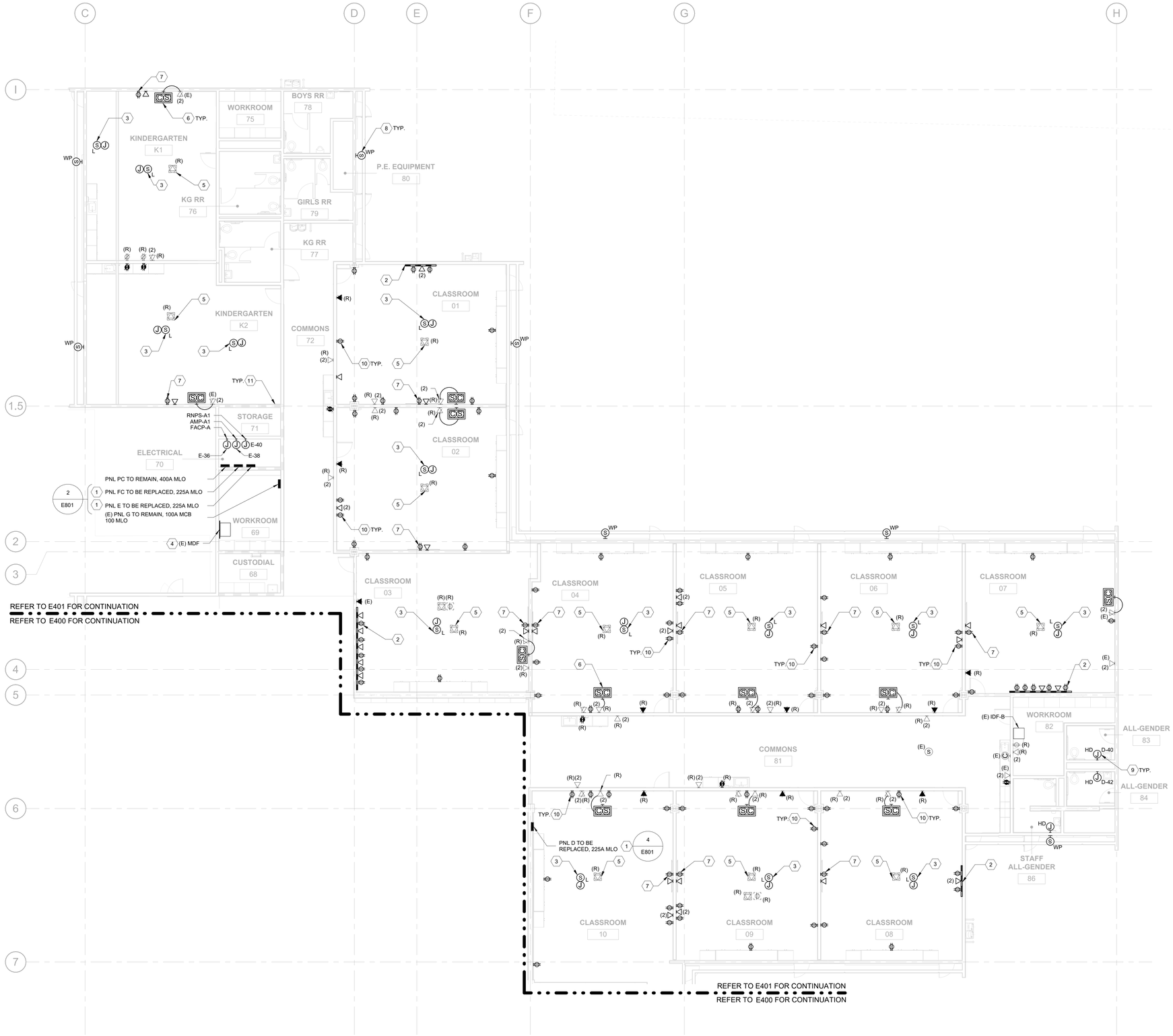
MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET
NEW POWER AND LOW VOLTAGE PLAN - PART A

DATE 09/05/25
JOB # 2023025
SHEET # E400

16-04-2026 16:51:13



1 PARTIAL FLOOR PLAN - BUILDING A (PART B)
1/8" = 1'-0"

N

GENERAL NOTES:

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.

B. CIRCUIT ALL DEVICES ON THIS SHEET TO (E) PANELBOARD AND CIRCUIT THAT (R) AND (E) DEVICES ARE CONNECTED TO, UNLESS OTHERWISE NOTED.

C. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

F. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL AREAS WITHIN EACH KINDER AND TK CLASSROOM AS REQUIRED BY CEC ARTICLE 406.12(A) AND 210.52.

G. RECONNECT ALL NEW AND EXISTING DEVICES TO EXISTING CIRCUITRY WITHIN EACH SPACE. PROVIDE NEW MC CABLE AND J-BOXES AS REQUIRED, CONCEALED WITHIN WALLS.

SHEET NOTES:

1. REPLACE (E) ZINSCO PANEL WITH NEW PANEL SIZED TO MATCH (E). PROVIDE NEW BREAKERS TO MATCH (E) AND RECONNECT ALL (E) LOADS TO NEW PANEL.
2. PROVIDE NEW MULTI-CHANNEL RACEWAY WITH POWER AND DATA IN SAME LOCATIONS AS (D) ITEMS. RECONNECT POWER TO (E) CIRCUITRY. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO EXTEND TO NEW DEVICE LOCATIONS.
3. OFCI VOICELIFT BLUETOOTH SPEAKER, LIGHTSPEED TEK TOPCAT CASCADIA SERIES. PROVIDE DATA CONNECTION VIA POE DATA SWITCH.
4. (E) MDF TO REMAIN.
5. CONNECT (E) DATA WIRE TO NEW OFCI WIRELESS ACCESS POINT.
6. COORDINATE CLOCK/SPEAKER LOCATION WITH EXISTING DISTRICT-PROVIDED DATA DROPS. ADVANCED NETWORK DEVICES IP SPEAKER WITH HD DISPLAY, IPSWDHD-MW, DISTRICT STANDARD, OFCI.
7. PROVIDE POWER, DATA, AND AV OUTPUT FOR FLAT PANEL DISPLAY COORDINATE EXACT LOCATION WITH BALANCE BOX TV MOUNT INSTALLATION LOCATION. DISPLAY AND MOUNT TO BE OFCI.
8. PROVIDE DATA DROP AND IP SPEAKER, ADVANCED NETWORK DEVICES IPSWS-SM, DISTRICT STANDARD, OFCI.
9. PROVIDE CONNECTION TO HAND DRYER. CIRCUIT WITH (2) #12 + (1) #12G - 3/4"C, OFCI.
10. PROVIDE NEW POWER AND DATA DEVICES RECESSED IN WALL IN SAME LOCATIONS AS (D) ITEMS. RECONNECT POWER TO (E) CIRCUITRY. PROVIDE NEW CONDUIT, WIRE, AND BACKBOXES AS REQUIRED TO EXTEND TO NEW DEVICE LOCATIONS.
11. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.

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100% DD	
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SHEET

NEW POWER AND LOW VOLTAGE PLAN - PART B

DATE 09/05/25

JOB # 2023025

SHEET # E401

16-04-2026 18:51:15

GENERAL NOTES:

A. ALL SENSOR LOCATIONS ARE APPROXIMATE. LOCATE SENSORS PER WATTSTOPPER GUIDELINES AND INSTALLATION MANUAL

B. LOCATE SENSOR A MINIMUM OF 5' FROM ANY AIR SUPPLY AND/OR RETURN REGISTERS.

C. THE CONTRACTOR SHALL COMMISSION SENSITIVITY AND TIME DELAY SETTINGS AND PROVIDE TITLE 24 COMMISSIONING DOCUMENTS.

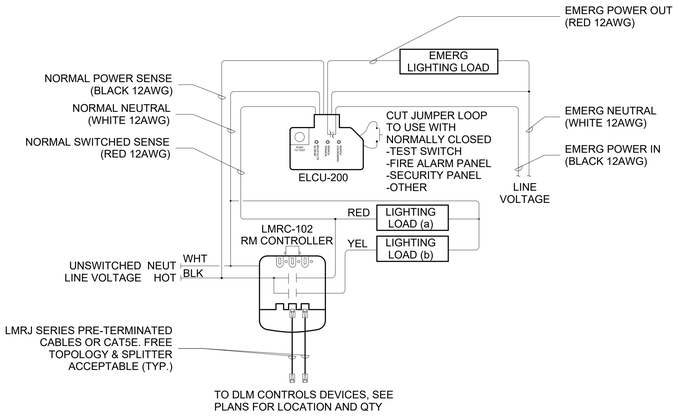
D. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED OCCUPANCY SENSOR POWER PACKS. FOR GYP BOARD CEILINGS, PROVIDE J-BOXES WITH BLANK FACEPLATES.

E. ROOM CONTROLLERS SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION ABOVE T-BAR, INSIDE A MULTI-GANG J-BOX WITH BLANK FACEPLATE OR NEARBY REMOTE LOCATION.

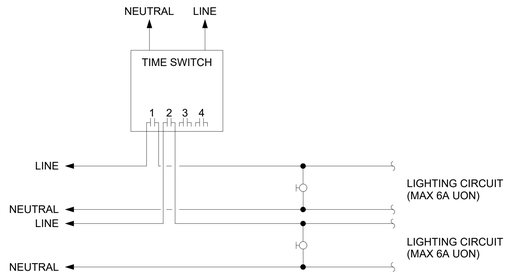
F. ROOM CONTROLLERS ARE NOT SHOWN ON PLANS. ONE ROOM CONTROLLER IS REQUIRED FOR EACH LIGHTING CIRCUIT AND ONE PER (2) SWITCHLEGS.

G. VERIFY MAXIMUM NUMBER OF OCCUPANCY SENSORS PERMISSIBLE PER EACH LOW VOLTAGE CIRCUIT.

H. ALL PART NUMBERS SHOWN ARE WATTSTOPPER. SEE WATTSTOPPER.COM FOR SUPPORT DOCUMENTATION AND TECHNICAL SUPPORT.



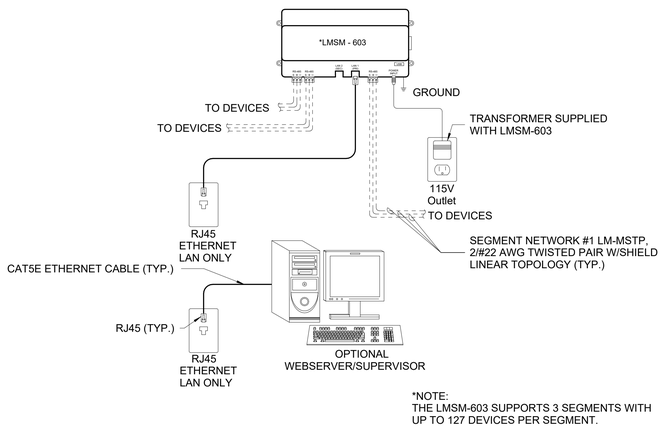
5 DIGITAL LIGHTING CONTROL SWITCHED EMERGENCY LIGHTING
NTS



DETAIL NOTES:

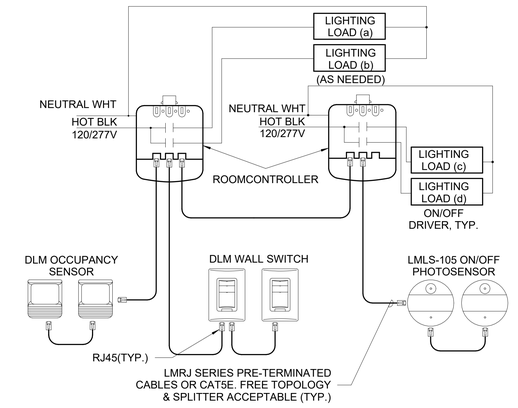
1. PROVIDE ASTRONOMIC, 365 DAY, 4-CIRCUIT TIME CLOCK, INTERMATIC ET90415CR OR APPROVED EQUAL.
2. TIME SWITCH SHALL BE PROVIDED WITH MINIMUM (30 DAY) BATTERY BACKUP.
3. SET TIMES AS FOLLOWS UNLESS DIRECTED OTHERWISE BY OWNER:
   3.1. CHANNEL #1: "ON @ ONE HOUR BEFORE SUNSET" "OFF @ 10:00pm"
   3.2. CHANNEL #2: "ON @ ONE HOUR BEFORE SUNSET" "OFF @ ONE HOUR AFTER SUNRISE"
   3.3. CHANNELS #3 & 4 ARE SPARE.

7 TIME SWITCH FOR 4 LINE VOLTAGE CIRCUITS
NTS



*NOTE:
THE LMSM-603 SUPPORTS 3 SEGMENTS WITH UP TO 127 DEVICES PER SEGMENT.

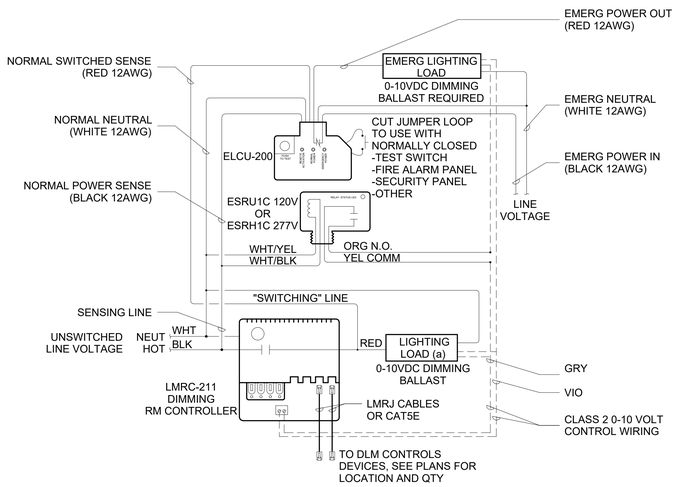
4 SEGMENT MANAGER WIRING DIAGRAM
NTS



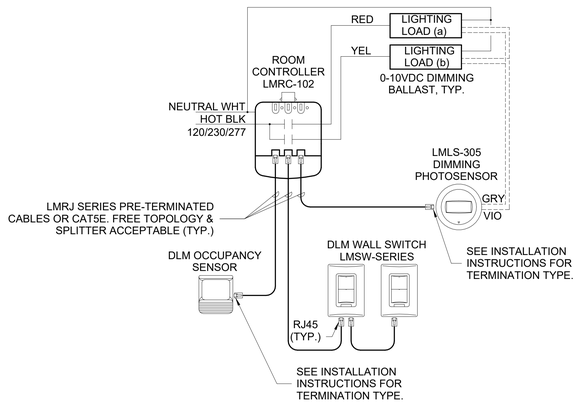
DETAIL NOTES:

1. REFER TO PLANS FOR QUANTITY, TYPES, AND LOCATIONS OF CONTROLS DEVICES.

2 DIGITAL LIGHTING CONTROL ON/OFF WIRING DIAGRAM
NTS



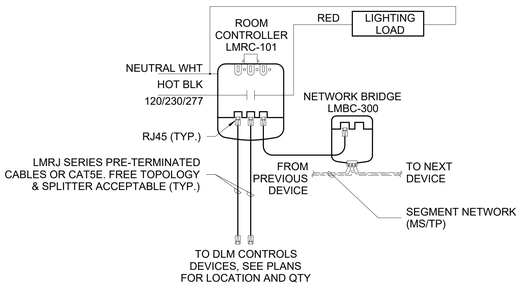
6 DIGITAL LIGHTING CONTROL DIMMED EMERGENCY LIGHTING
NTS



DETAIL NOTES:

1. REFER TO PLANS FOR QUANTITY, TYPES, AND LOCATIONS OF CONTROLS DEVICES.

3 DIGITAL LIGHTING CONTROL ON/OFF WITH AUTO DIM
NTS



1 ROOM CONTROLLER WITH BRIDGE WIRING DIAGRAM
NTS

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DSA SUB	09.05.2025

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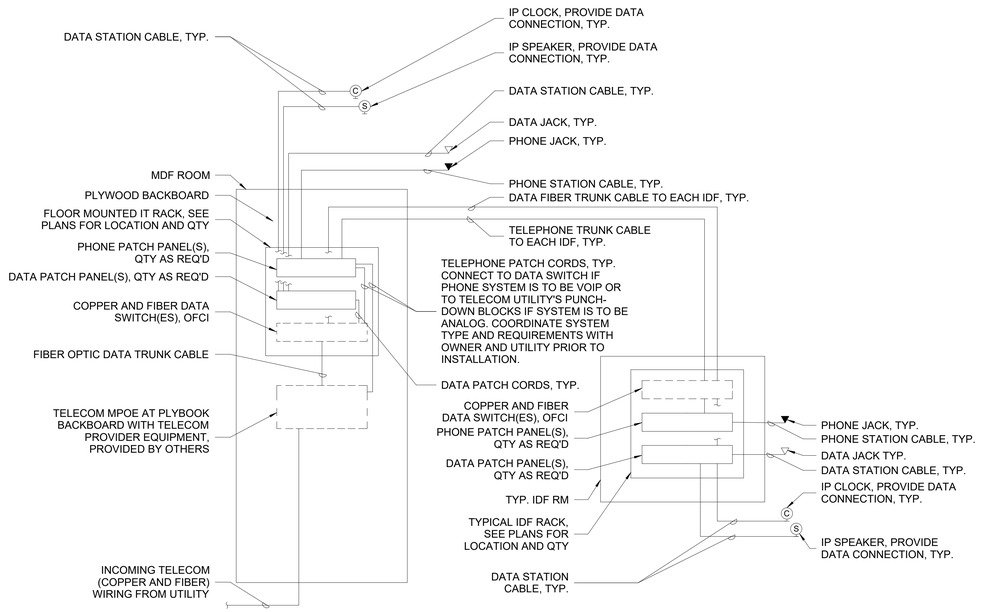
DIAGRAMS
LIGHTING

DATE 09/05/25

JOB # 2023025

SHEET # E600

16-04-2026 16:51:16



DETAIL NOTES:

1. TYPICAL DEVICE CONNECTIONS SHOWN. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.

1 TELE/DATA WIRING DIAGRAM
NTS

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95% CD	
DSA SUB	09.05.2025

SHEET

DIAGRAMS LOW VOLTAGE

DATE	09/05/25
JOB #	2023025
SHEET #	E610

16-04-2026 16:51:17

LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED, Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

FIXTURE TAG	INPUT WATTS (W)	LIGHT SOURCE	COLOR TEMP (K)	CRI	OUTPUT (LUMENS)	EFFICACY (LPW)	LED DRIVER OR BALLAST	VOLTS (V)	DESCRIPTION	MANUFACTURER	LOCATION	WEIGHT (LBS)	REMARKS
C1	10.6 /FT	LED	4000	94	826	75	INTEGRAL 0-10V DIMMING DRIVER	120	LED COVE LIGHT. HIGH OUTPUT LEDS. SPACE GREY FINISH. OPAL LENS. 2" WIDTH X 1.44" HEIGHT.	TIVOLI VAST COVE LIGHT STATIC SERIES VAST-HO-SG-OP-40-01-1	COMMON AREAS	7	1. MOUNT FIXTURE IN EXISTING COVE. 2. MOUNT END-TO-END IN CONTINUOUS LENGTHS AS SHOWN ON PLANS. 3. PROVIDE FLEXIBLE CONNECTORS WHERE REQUIRED TO TURN CORNERS.
P1	95.5	LED	4000	80	13,414	110	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	4'-0" DIAMETER ROUND DIRECT/INDIRECT FIXTURE. EXTRUDED ALUMINUM HOUSING. STANDARD LIGHT OUTPUT UP, BOOSTED LIGHT OUTPUT DOWN. TOP GLOW UPLIGHT AND FLUSH DOWNLIGHT. CUSTOM RAL COLOR (TO BE CONFIRMED BY ARCHITECT).	FINELITE HP-4C SERIES HP-4C-P-ID-4-S-B-840-TG-F-96LG-120-SC-FC-10%-FA-100-C4-(CUSTOM RAL COLOR TBD) OR APPROVED EQUAL	LIBRARY	45	1. MOUNT BOTTOM OF FIXTURE AT 10' -0" AFF
R1	26.9	LED	4000	80	3680	136.802974	INTEGRAL 0-10V DIMMING DRIVER	120	2X4 RECESSED LED FIXTURE. DIE-FORMED COLD-ROLLED STEEL HOUSING. ANGLED LENS WITH FLAT DIFFUSE CENTER OPTICS. HIGH REFLECTANCE WHITE POWDER COATED REFLECTOR.	FINELITE HPR-LED SERIES HPR-LED-A-2X4-S-840-96LG-120-SC-FC-10%-__-96LG OR APPROVED EQUAL	CLASSROOMS	33	1. VERIFY EXACT CEILING TYPE PRIOR TO ORDERING.
R1E	26.9	LED	4000	80	3680	136.802974	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "R1" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	FINELITE HPR-LED SERIES HPR-LED-A-2X4-S-840-96LG-120-SC-FC-10%-__-96LG-LGD18W OR APPROVED EQUAL	CLASSROOMS	33	1. VERIFY EXACT CEILING TYPE PRIOR TO ORDERING.
R2	26.9	LED	4000	80	3680	136.802974	INTEGRAL 0-10V DIMMING DRIVER	120	2X2 RECESSED LED FIXTURE. DIE-FORMED COLD-ROLLED STEEL HOUSING. ANGLED LENS WITH FLAT DIFFUSE CENTER OPTICS. HIGH REFLECTANCE WHITE POWDER COATED REFLECTOR.	FINELITE HPR-LED SERIES HPR-LED-A-2X2-S-840-96LG-120-SC-FC-10%-__-96LG OR APPROVED EQUAL	CLASSROOMS	33	1. VERIFY EXACT CEILING TYPE PRIOR TO ORDERING.
R2E	26.9	LED	4000	80	3680	136.802974	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "R2" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	FINELITE HPR-LED SERIES HPR-LED-A-2X2-S-840-96LG-120-SC-FC-10%-__-96LG-LGD18W OR APPROVED EQUAL	CLASSROOMS	33	1. VERIFY EXACT CEILING TYPE PRIOR TO ORDERING.
R3	19.1	LED	4000	80	1988	104.0837696	INTEGRAL 0-10V DIMMING DRIVER	120	6" DIAMETER ROUND LED DOWNLIGHT, DIE CAST ALUMINUM HOUSING WITH FORGED ALUMINUM HEAT SINK. OPEN REFLECTOR. WIDE DISTRIBUTION. CLEAR SPECULAR REFLECTOR FINISH. REMODEL MOUNTING KIT.	HE WILLIAMS 6DR SERIES 6DR-TL-L20-8-40-DIM-UNV HOUSING W/ O-W-OF-CS TRIM AND R MOUNTING KIT OR APPROVED EQUAL	CLASSROOMS, HALLS	15	
R3E	19.1	LED	4000	80	1988	104.0837696	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	SIMILAR TO TYPE "R3" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	HE WILLIAMS 6DR SERIES 6DR-TL-L20-8-40-DIM-UNV HOUSING W/ O-W-OF-CS TRIM, R MOUNTING KIT, AND EM/10W/RTS BATTERY PACK OR APPROVED EQUAL	CLASSROOMS, HALLS	15	1. MOUNT REGRESSED TEST SWITCH AJACENT TO FIXTURE.
S1	19.7	LED	4000	80	3071	156	INTEGRAL 0-10V DIMMING DRIVER	120	4'-0" LONG SURFACE MOUNTED LED STRIP FIXTURE WITH ROUND LENS.	HE WILLIAMS 75R SERIES 75R-4-L30-8-40-DIM-120 OR APPROVED EQUAL	BACK OF HOUSE	18	
S1E	19.7	LED	4000	80	3071	156	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "S1" EXCEPT WITH INTEGRAL UL LISTED EMERGENCY BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME	HE WILLIAMS 75R SERIES 75R-4-L30-8-40-EM10WLP-DIM-120 OR APPROVED EQUAL	BACK OF HOUSE	18	
S2	73	LED	4000	80	7846	107.4794521	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	1' X 4' SURFACE MOUNTED FOOD SAFE LED. SEAM-WELDED COLD ROLLED STEEL HOUSING. UV STABILIZED, PEARLESCENT LENS. LINEAR SILICONE GASKET TO SEAL DOORFRAME.	KENALL ENVIROSEAL FES SERIES FES12-48-1-67L40K-DCC-1-DV-2H-PP OR APPROVED EQUAL	KITCHEN	22	
S2E	73	LED	4000	80	7846	107.4794521	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	SIMILAR TO TYPE "S2" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	KENALL ENVIROSEAL FES SERIES FES12-48-1-67L40K-DCC-1-DV-2H-PP-LEL OR APPROVED EQUAL	KITCHEN	22	
ZP1	50	LED	4000	80	6293	125.86	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	LED POLE LIGHT WITH INTEGRAL EMERGENCY BATTERY PACK WITH MINIMUM 90 MIN RUNTIME. ROUND POST-TOP HOUSING. BI-LEVEL MOTION SENSOR. COMFORT OPTICS. 20' TALL, 4" ROUND POLE. B2-U0-G2.	GARDCO PUREFORM POST TOP SERIES PPT-C-A04-840-T2M-T3-120-010V-BL50L3-EM-DG FIXTURE WITH SRS-CB-4-11-20-D1-DG POLE OR APPROVED EQUAL	EXTERIOR	23.1	
ZW1	47	LED	4000	80	6394	136.0425532	INTEGRAL BI-LEVEL DIMMING DRIVER	UNIVERSAL	LED WALL PACK. LOW COPPER DIE CAST ALUMINUM ALLOY HOUSING. INTEGRAL MOTION SENSOR WITH BI-LEVEL DIMMING.	GARDCO PUREFORM WALL MOUNT PWS SERIES PWS-48L-300-NW-G2-3-UNV-DD-BL-IMRI3-F1-DGY OR APPROVED EQUAL	EXTERIOR	24	
X1	5	LED	N/A	N/A	N/A	N/A	ELECTRONIC, INTEGRAL	120	EDGE-LIT LED EXIT SIGN. MIRRORED ACRYLIC PANEL WITH GREEN LETTERING. BRUSHED ALUMINUM HOUSING. INTEGRAL BATTERY PACK WITH MINIMUM 90 MIN RUNTIME.	EMERGILITE PRESTIGE EDGE LIT SERIES LXN-_-N-G-M-_-A-D OR APPROVED EQUAL	THROUGHOUT	3	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE MOUNTING HARDWARE, QUANTITY/DIRECTION OF ARROWS, AND QUANTITY OF FACES AS INDICATED ON PLANS.
X2	5	LED	N/A	N/A	640	N/A	ELECTRONIC, INTEGRAL	120	EMERGENCY LED LIGHT. DIE CAST ALUMINUM HOUSING. BLACK COLOR. FORWARD THROW OPTICS. INTEGRAL BATTERY PACK WITH MINIMUM 90 MIN RUNTIME.	EMERGILITE LUX-RAY LED SERIES B-LUX-SD-FT-H OR APPROVED EQUAL	THROUGHOUT	3	1. MOUNT BOTTOM OF FIXTURE AT 12'-0" AFF.

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SHEET

SCHEDULES LIGHTING

DATE 09/05/25

JOB # 2023025

SHEET # E700

16-04-2026 16:51:21

PANELBOARD A

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 1600 VA 14 A
PHASE B: 800 VA 7 A
PHASE C: 1780 VA 16 A
CONNECTED: 4180 VA 12 A
DEMAND: 4180 VA 12 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	LIGHTING RM. 71	--	20	1	0			0			2	1 20	--	LIGHTING RM. 35	1
1	LIGHTING RM. 70 & 75	--	20	1	3	0			0		4	1 20	--	LIGHTING RM. 35	1
1	LIGHTING RM. 67, 68 & 69	--	20	1	5		0			0	6	1 20	--	LIGHTING RM. 74	1
1	LIGHTING RM. 76 & 77	--	20	1	7	0		0			8	1 20	--	TRELLIS LIGHTING	1
1	LIGHTING RM. 38	--	20	1	9		0		0		10	1 20	--	EXTERIOR LIGHTING	1
1	EXTERIOR LIGHTING	--	20	1	11			0		0	12	1 20	--	EXTERIOR LIGHTING	1
1	EXTERIOR LIGHTING	--	20	1	13	0		0			14	1 20	--	EXTERIOR LIGHTING	1
1	EXTERIOR LIGHTING	--	20	1	15		0		0		16	1 20	--	EXTERIOR LIGHTING	1
1	EXTERIOR LIGHTING	--	20	1	17			0		0	18	1 20	--	TIME CLOCK	1
1	TROPHY CASE LIGHTING	--	20	1	19	0			0		20	1 20	--	PHONE RECEPTACLE	1
1	COKE MACHINE	--	20	1	21		0			0	22	1 20	--	I.C. CONSOLE	1
	RECEPTACLE RM. ADMIN 62	R	20	1	23			180		0	24	1 20	--	EVAX PNL	1
1	WALL RECEPTACLE	--	20	1	25	0			0		26	1 20	--	FLOOR PLUGS	1
1	COUNT RECEPTACLE	--	20	1	27		0			0	28	1 20	--	FLOOR PLUGS	1
1	WALL RECEPTACLE	--	20	1	29			0			30	1 20	G	HAND DRYER	
	SPARE	--	20	1	31	0			800		32	1 20	G	HAND DRYER	
1	WALL RECEPTACLE	--	20	1	33		0			800	34	1 20	G	HAND DRYER	
1	WALL RECEPTACLE	--	20	1	35			0			36	1 20	G	HAND DRYER	
1	WALL RECEPTACLE	--	20	1	37	0			800		38	1 20	G	HAND DRYER	
	SPACE	--	--	1	39		--			--	40	1 --	--	SPACE	
	SPACE	--	--	1	41			--			42	1 20	--	EXIT LIGHTING	1

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
G	4000 VA	100.00%	4000 VA
R	180 VA	100.00%	180 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD B

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 0 VA 0 A
PHASE B: 600 VA 6 A
PHASE C: 600 VA 6 A
CONNECTED: 1200 VA 3 A
DEMAND: 1200 VA 3 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	LIGHTING RM. 24	--	20	1	1	0					2	1 20	--	LIGHTING RM. 09	1
1	LIGHTING RM. 23	--	20	1	3		0			0	4	1 20	--	LIGHTING RM. 09	1
1	LIGHTING RM. 23	--	20	1	5			0			6	1 20	--	LIGHTING RM. 11	1
	SPARE	--	20	1	7	0			0		8	1 20	--	LIGHTING RM. 11	1
1	LIGHTING RM. 15	--	20	1	9		0			0	10	1 20	--	LIGHTING RM. 17	1
1	LIGHTING RM. 15	--	20	1	11			0			12	1 20	--	LIGHTING RM. 24	1
1	LIGHTING RM. 21	--	20	1	13	0			0		14	1 20	--	LTG MAIN CUSTODIAN RM	1
1	LIGHTING RM. 21	--	20	1	15		0			0	16	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	17			0			18	1 20	--	SPARE	
1	WALL RECEPTACLE	--	20	1	19	0			0		20	1 20	--	RACEWAY CAFE	1
1	WALL RECEPTACLE	--	20	1	21		0			0	22	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	23			0			24	1 20	--	WALL RECEPTACLE	1
1	EMERGENCY PANEL	--	20	1	25	0			0		26	1 20	--	WALL RECEPTACLE	1
	SPACE	--	--	1	27		--			0	28	1 20	--	RESTROOM RECEPTACLE	1
	SPACE	--	--	1	29			--			30	1 --	--	SPACE	
	SPACE	--	--	1	31	--			--		32	1 --	--	SPACE	
	SPACE	--	--	1	33		--			0	34	2 50	--	RANGE	1
	SPACE	--	--	1	35			--		0	36	-- --	--	--	
	SPACE	--	--	1	37	--		0			38	2 50	--	RANGE	1
	AMP-A2	G	20	1	39		600		0		40	-- --	--	--	
	RNPS-A2	G	20	1	41			600		--	42	1 --	--	SPACE	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
G	1200 VA	100.00%	1200 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD C

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: RECESSED
BUSSING: TIN PLATED COPPER

PHASE A: 0 VA 0 A
PHASE B: 0 VA 0 A
PHASE C: 0 VA 0 A
CONNECTED: 0 VA 0 A
DEMAND: 0 VA 0 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	LIGHTING RM. 18	--	20	1	1	0			0		2	1 20	--	LIGHTING RM. 11	1
1	LIGHTING RM. 18	--	20	1	3		0			0	4	1 20	--	LIGHTING RM. 11	1
1	LIGHTING RM. 17	--	20	1	5			0			6	1 20	--	LIGHTING RM. 12	1
	SPARE	--	20	1	7	0			0		8	1 20	--	LIGHTING RM. 12	1
1	LIGHTING RM. 16	--	20	1	9		0			0	10	1 20	--	LIGHTING RM. 13	1
1	LIGHTING RM. 16	--	20	1	11			0			12	1 20	--	LIGHTING RM. 13	1
1	LIGHTING RM. 15	--	20	1	13	0			0		14	1 20	--	COVE LIGHTING	1
1	LIGHTING RM. 15	--	20	1	15		0			0	16	1 20	--	COVE LIGHTING	1
1	LIGHTING RM. 14	--	20	1	17			0			18	1 20	--	COVE LTG MULTI-MEDIA CENTER	1
1	LIGHTING RM. 14	--	20	1	19	0			0		20	1 20	--	COVE LTG MULTI-MEDIA CENTER	1
1	COVE LIGHTING	--	20	1	21		0			0	22	1 20	--	COVE LTG MULTI-MEDIA CENTER	1
1	COVE LIGHTING	--	20	1	23			0			24	1 20	--	BATHROOM LIGHTING	1
1	COVE LTG MULTI-MEDIA CENTER	--	20	1	25	0			0		26	1 20	--	BATHROOM LIGHTING	1
1	HALL LIGHTING	--	20	1	27		0			0	28	1 20	--	LIGHT TRANSFORMER	1
1	COVE NIGHT LIGHTING	--	20	1	29			0			30	1 20	--	WALL RECEPTACLE	1
1	RECEPTACLE RM. 15	--	20	1	31	0			0		32	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	33		0			0	34	1 20	--	WALL RECEPTACLE	1
1	WALL AND ROOF RECEPTACLE	--	20	1	35			0			36	1 20	--	WALL RECEPTACLE	1
1	COM-LAB	--	20	1	37	0			0		38	3 30	--	HD 1	1
1	COM-LAB	--	20	1	39		0			0	40	-- --	--	--	
1	COM-LAB	--	20	1	41			0			42	1 --	--	--	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD D

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: RECESSED
BUSSING: TIN PLATED COPPER

PHASE A: 0 VA 0 A
PHASE B: 800 VA 8 A
PHASE C: 800 VA 8 A
CONNECTED: 1600 VA 4 A
DEMAND: 1600 VA 4 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	LIGHTING RM. 10	--	20	1	1	0			0		2	1 20	--	LIGHTING RM. 04	1
1	LIGHTING RM. 10	--	20	1	3		0			0	4	1 20	--	LIGHTING RM. 04	1
1	LIGHTING RM. 08	--	20	1	5			0			6	1 20	--	LIGHTING RM. 05	1
1	LIGHTING RM. 09	--	20	1	7	0			0		8	1 20	--	LIGHTING RM. 05	1
1	LIGHTING RM. 08	--	20	1	9		0			0	10	1 20	--	LIGHTING RM. 06	1
1	LIGHTING RM. 09	--	20	1	11			0			12	1 20	--	LIGHTING RM. 06	1
	SPACE	--	--	1	13	--			0		14	1 20	--	LIGHTING RM. 07	1
1	TEACHERS WORKROOM	--	20	1	15		0			0	16	1 20	--	LIGHTING RM. 07	1
	SPARE	--	20	1	17			0			18	2 30	--	TEMP A/C	1
	SPARE	--	20	1	19	0			0		20	-- --	--	--	
1	BATH AREA LIGHTING	--	20	1	21		0			0	22	1 20	--	COVE LIGHTING	1
1	BATH AREA LIGHTING	--	20	1	23			0			24	1 20	--	COVE LIGHTING	1
1	BATH AREA LIGHTING	--	20	1	25	0			0		26	1 20	--	COVE LIGHTING	1
1	COVE NIGHT LIGHTING	--	20	1	27		0			0	28	1 20	--	COVE NIGHT LIGHTING	1
1	LIGHTING RM. 03 & CLOCKS	--	20	1	29			0			30	1 20	--	WALL RECEPTACLE	1
1	LIGHTING RM. 03 & CLOCKS	--	20	1	31	0			0		32	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	33		0			0	34	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	35			0			36	1 20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	37	0			0		38	1 20	--	WALL RECEPTACLE RM. 07	1
1	LIBRARY CENTER LIGHTING	--	20	1	39		0			800	40	1 20	G	HAND DRYER	
	SPARE	--	20	1	41			0			42	1 20	G	HAND DRYER	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
G	1600 VA	100.00%	1600 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD K

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: 300 A
BUS AMPS: 400 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 0 VA 0 A
PHASE B: 0 VA 0 A
PHASE C: 0 VA 0 A
CONNECTED: 0 VA 0 A
DEMAND: 0 VA 0 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	LTGHTING / EMERGENCY EXIT	--	20	1	1	0			0		2	1 20	--	OVEN	1
1	LTGHTING	--	20	1	3		0			0	4	1 20	--	HALL LIGHTING	1
1	LTGHTING	--	20	1	5			0			6	1 20	--	GAS CONTROLS FOR RANGE	1
1	RECEPTACLE	--	20	1	7	0			0		8	1 20	--	RECEPTACLE	1
1	RECEPTACLE	--	20	1	9		0			0	10	1 20	--	RECEPTACLE	1
1	RECEPTACLE	--	20	1	11			0			12	1 20	--	MIXER	1
1	RECEPTACLE	--	20	1	13	0			0		14	1 20	--	FREEZER	1
1	OVEN	--	20	1	15		0			0	16	1 20	--	REFRIGERATION	1
	SPACE	--	--	1	17			--			18	1 --	--	SPACE	
1	DISPOSAL	--	20	1	19	0			0		20	1 20	--	HOOD EXHAUST FAN	1
	SPACE	--	--	1	21		--			--	22	1 --	--	SPACE	
	SPACE	--	--	1	23			--			24	1 --	--	SPACE	
1	MIXER	--	20	1	25	0			0		26	1 20	--	DISPOSAL	1
	SPACE	--	--	1	27		--			--	28	1 --	--	SPACE	
	SPACE	--	--	1	29			--			30	1 --	--	SPACE	
1	OVEN	--	90	1	31	0			0		32	1 90	--	RANGE	1
	SPACE	--	--	1	33		--			--	34	1 --	--	SPACE	
	SPACE	--	--	1	35			--			36	1 --	--	SPACE	
1	DISH WASHER	--	30	1	37	0			0		38	1 70	--	BOOSTER HEATER	1
	SPACE	--	--	1	39		--			--	40	1 --	--	SPACE	
	SPARE	--	20	1	41			0		0	42	1 20	--	SPARE	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD (E) PNL F

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 2400 VA 21 A
PHASE B: 2400 VA 21 A
PHASE C: 1600 VA 13 A
CONNECTED: 6400 VA 18 A
DEMAND: 6400 VA 18 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE	CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR	LOAD	LOAD DESCRIPTION	NOTES
1	RECEPTACLES CLASSROOM . 17	R	20	1	1	800			800		2	1 20	R	RECEPTACLES CLASSROOM . 11	1
1	RECEPTACLES CLASSROOM . 16	R	20	1	3		800			800	4	1 20	R	RECEPTACLES CLASSROOM . 12	1
1	RECEPTACLES CLASSROOM . 15	R	20	1	5			800			6	1 20	R	RECEPTACLES CLASSROOM . 13	1
1	RECEPTACLES CLASSROOM . 14	R	20	1	7	800			0		8	1 20	--	(E) MARQEE SIGN	2
1	RECEPTACLES CLASSROOM . 18	R	20	1	9		800			0	10	1 20	--	(E) MARQEE SIGN	2
2	(E) OUTLET CUSTODIAN & HALL	--	20	1	11			0			12	1 30	--	(E) HP - 07	2
2	(E) HP - 03	--	30	2	13	0			0		14	1 30	--	(E) HP - 06	2
	--	--	--	--	15		0			0	16	1 30	--	(E) HP - 05	2
2	(E) HP - 02	--	30	2	17			0			18	2 20	--	(E) FC - 11	2
	--	--	--	--	19	0			0		20	-- --	--	--	
2	(E) HP - 08	--	30	2	21		0			0	22	2 20	--	(E) FC - 10	2
	--	--	--	--	23			0			24	-- --	--	--	
2	(E) HP - 12	--	30	2	25	0			0		26	2 20	--	(E) FC - 05	2
	--	--	--	--	27		0			0	28	-- --	--	--	
2	(E) HP - 01	--	30	2	29			0			30	2 20	--	(E) FC - 06	2
	--	--	--	--	31	0			0		32	-- --	--	--	
2	(E) HP - 04	--	30	2	33		0			0	34	2 20	--	(E) FC - 07	2
	--	--	--	--	35			0		0	36	-- --	--	--	
2	(E) FC - 02 (ROOF)	--	30	1	37	0			--		38	1 --	--	SPACE	
2	(E) TEMP A/C	--	30	2	39		0			--	40	1 --	--	SPACE	
	--	--	--	--	41			0		--	42	1 --	--	SPACE	

GENERAL NOTES:
a.
b.
c.
d.
e.
f.

SCHEDULE NOTES:
1. CONNECT NEW LOADS TO EXISTING BREAKER
2. EXISTING LOAD AND EXISTING BREAKER.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
R	6400 VA	100.00%	6400 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXPIRES 06-30-26 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES
SD
50% DD
100% DD
50% CD 07.18.2025
95% CD
DSA SUB 09.05.2025

SHEET
SCHEDULES PANELBOARDS

DATE 09/05/25
JOB # 2023025
SHEET # E720

16-04-2026 16:51:22

PANELBOARD E

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 600 VA 5 A
PHASE B: 600 VA 5 A
PHASE C: 600 VA 5 A
CONNECTED: 1800 VA 5 A
DEMAND: 1800 VA 5 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE		CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR		LOAD	LOAD DESCRIPTION	NOTES
1	EXHAUST FAN	--	20	1	1	0			0			2	1	20	--	COVE LIGHTING	1
1	MDF BOARD	--	20	1	3		0			0		4	1	20	--	COVE LIGHTING	1
1	LIGHTING RM. 02	--	20	1	5			0			0	6	1	20	--	LIGHTING RM. 87	1
1	LIGHTING RM. 02	--	20	1	7	0			0			8	1	20	--	LIGHTING RM. 87	1
1	LIGHTING RM. 01	--	20	1	9		0			0		10	1	20	--	LIGHTING RM. 88	1
1	LIGHTING RM. 01	--	20	1	11			0			0	12	1	20	--	LIGHTING RM. 88	1
1	LIGHTING RM. 87	--	20	1	13	0			0			14	1	20	--	LIGHTING	1
1	LIGHTING RM. 87	--	20	1	15		0			0		16	1	20	--	SPARE	
1	CLOCK #2	--	20	1	17			0			0	18	1	20	--	WALL RECEPTACLE	1
1	WALL RECEPTACLE	--	20	1	19	0			0			20	1	20	--	WIRE MODEL OUT	1
1	LIBRARY NORTH WALL REC	--	20	1	21		0			0		22	1	20	--	SPARE	
1	WALL RECEPTACLE	--	20	1	23			0			0	24	1	20	--	GFIC BATROOM	1
1	PANEL HEATERS	--	20	1	25	0			0			26	1	20	--	SPARE	
1	PANEL HEATERS	--	20	1	27		0			0		28	1	20	--	PANEL HEATERS	1
1	K-1 K-2 A/C CONTROLLER	--	20	1	29			0			0	30	1	20	--	PANEL HEATERS	1
1	HAND DRYER	--	20	1	31	0			0			32	1	20	--	HAND DRYER	1
1	HAND DRYER	--	20	1	33		0			--		34	1	--	--	SPACE	
	SPACE	--	--	1	35			--			600	36	1	20	G	FACP-A	
1	INSTA HOT	--	30	2	37	0			600			38	1	20	G	AMP-A1	
	--	--	--	--	39		0			600		40	1	20	G	RNPS-A1	
1	HAND DRYER	--	20	1	41			0			0	42	1	20	--	HAND DRYER	1

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
G	1800 VA	100.00%	1800 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD FC

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 250 VA 2 A
PHASE B: 0 VA 0 A
PHASE C: 0 VA 0 A
CONNECTED: 250 VA 1 A
DEMAND: 313 VA 1 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE		CK T	A	B	C	A	B	C	CK T	POLE/BKR		LOAD	LOAD DESCRIPTION	NOTES
	SPACE	--	--	1	1	--			--			2	1	--	--	SPACE	
	SPACE	--	--	1	3		--			--		4	1	--	--	SPACE	
	SPACE	--	--	1	5			--			--	6	1	--	--	SPACE	
	SPACE	--	--	1	7	--			--			8	1	--	--	SPACE	
	SPARE	--	20	1	9		0			0		10	1	20	--	SPARE	
	SPARE	--	20	1	11			0			0	12	1	30	--	FCU - 27	1
1	FCU - 25	--	30	1	13	0			0			14	1	20	--	FCU - 26	1
1	FCU - 24	--	30	1	15		0			0		16	1	20	--	SPARE	
1	FCU - 18	--	30	1	17			0			0	18	1	20	--	SPARE	
1	FCU - 14	--	30	1	19	0			0			20	1	20	--	FCU - 21	1
1	FCU - 15	--	30	1	21		0			0		22	1	20	--	SPARE	
1	FCU - 17	--	30	1	23			0			0	24	1	20	--	FCU - 19	1
	SPARE	--	20	1	25	0			0			26	1	20	--	FCU - 13	1
	SPARE	--	20	1	27		0			0		28	1	20	--	SPARE	
	SPARE	--	20	1	29			0			--	30	1	--	--	SPACE	
1	FCU - 37	--	20	1	31	0			0			32	1	20	--	SPARE	
	SPARE	--	20	1	33		0			0		34	1	20	--	SPARE	
1	EF - 01	--	20	1	35			0			0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0			0			38	1	20	--	FCU - 03	1
	SPARE	--	20	1	39		0			0		40	1	20	--	FCU - 04	1
1	FCU - 29	--	20	1	41			0			0	42	1	20	--	SPARE	
1	FCU - 09	--	20	1	43	0			0			44	1	20	--	SPARE	
	SPARE	--	20	1	45		0			0		46	1	20	--	SPARE	
	SPARE	--	20	1	47			0			0	48	1	20	--	SPARE	
1	FCU - 36	--	20	1	49	0			250			50	1	20	L	EXTERIOR POLE LTG	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
L	250 VA	125.00%	313 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD MU

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 225 A
AIC RATING: 65000 A
MOUTING: RECESSED
BUSSING: TIN PLATED COPPER

PHASE A: 0 VA 0 A
PHASE B: 0 VA 0 A
PHASE C: 0 VA 0 A
CONNECTED: 0 VA 0 A
DEMAND: 0 VA 0 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE		CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR		LOAD	LOAD DESCRIPTION	NOTES
1	LIGHTING RM. 03	--	20	1	1	0			0			2	1	20	--	LIGHTING RM. 01	1
1	LIGHTING RM. 03	--	20	1	3		0			0		4	1	20	--	SPARE	
1	LIGHTING RM. 01	--	20	1	5			0			0	6	1	20	--	SPARE	
1	LIGHTING RM. 01	--	20	1	7	0			0			8	1	20	--	SPARE	
	SPARE	--	20	1	9		0			0		10	1	20	--	SPARE	
1	LIGHTING RM. 01	--	20	1	11			0			0	12	1	20	--	SPARE	
1	FLOOR RECEPTACLE	--	20	1	13	0			0			14	1	20	--	SPARE	
1	WALL RECEPTACLE	--	20	1	15		0			0		16	1	20	--	SPARE	
1	WALL RECEPTACLE	--	20	1	17			0			0	18	1	20	--	SPARE	
1	WALL RECEPTACLE	--	20	1	19	0			0			20	1	20	--	SPARE	
1	ZINC OUTLET	--	20	1	21		0			0		22	1	20	--	SPARE	
	SPARE	--	20	1	23			0			0	24	1	20	--	SPARE	
1	KILN	--	50	2	25	0			0			26	1	20	--	SPARE	
	--	--	--	--	27		0			0		28	1	20	--	SPARE	
	SPACE	--	--	1	29			--			--	30	1	--	--	SPACE	
	SPACE	--	--	1	31	--			--			32	1	--	--	SPACE	
	SPACE	--	--	1	33		--			--		34	1	--	--	SPACE	
	SPACE	--	--	1	35			--			--	36	1	--	--	SPACE	
	SPACE	--	--	1	37	--			--			38	1	--	--	SPACE	
	SPACE	--	--	1	39		--			--		40	1	--	--	SPACE	
	SPACE	--	--	1	41			--			--	42	1	--	--	SPACE	

GENERAL NOTES:
a. CONNECTED / DEMAND LOADS ARE NOT SHOWN. LOADS FOR EXISTING CIRCUITRY REMAIN UNCHANGED.
b. RECONNECT (E) CIRCUITRY TO NEW BREAKERS PROVIDED.
c.
d.
e.

SCHEDULE NOTES:
1. (E) LOADS TO BE CONNECTED TO NEW BREAKERS
2.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

PANELBOARD (E) PNL G

VOLTAGE: 120/208 Wye
PHASE 3
WIRE 4
MAIN AMPS: MLO
BUS AMPS: 100 A
AIC RATING: 65000
MOUTING: SURFACE
BUSSING: TIN PLATED COPPER

PHASE A: 2880 VA 24 A
PHASE B: 2400 VA 20 A
PHASE C: 2400 VA 20 A
CONNECTED: 7680 VA 21 A
DEMAND: 7680 VA 21 A

NOTES	LOAD DESCRIPTION	LOAD	BKR/POLE		CK T	A (VA)	B (VA)	C (VA)	A (VA)	B (VA)	C (VA)	CK T	POLE/BKR		LOAD	LOAD DESCRIPTION	NOTES
1	RECEPTACLES CLASSROOM . 08	R	20	1	1	480			800			2	1	20	R	RECEPTACLES CLASSROOM . 07	1
1	RECEPTACLES CLASSROOM . 09	R	20	1	3		800			800		4	1	20	R	RECEPTACLES CLASSROOM . 06	1
1	RECEPTACLES CLASSROOM . 10	R	20	1	5			800			800	6	1	20	R	RECEPTACLES CLASSROOM . 05	1
1	RECEPTACLES CLASSROOM . 01	R	20	1	7	800			800			8	1	20	R	RECEPTACLES CLASSROOM . 04	1
1	RECEPTACLES CLASSROOM . 02	R	20	1	9		800			0		10	1	20	--	SPARE	
1	RECEPTACLES CLASSROOM . 03	R	20	1	11			800			0	12	1	20	--	SPARE	
2	(E) FC - 01	--	20	2	13	0			0			14	2	30	--	(E) HP - 09	2
	--	--	--	--	15		0			0		16	--	--	--	--	
2	(E) CONDENSATE PUMP	--	20	1	17			0			0	18	2	30	--	(E) HP - 29	2
2	(E) FC - 35	--	30	1	19	0			0			20	--	--	--	--	
	SPARE	--	20	1	21		0			0		22	2	30	--	(E) HP - 35	2
	SPARE	--	20	1	23			0			0	24	--	--	--	--	
2	(E) HP - 37	--	20	2	25	0			0			26	2	30	--	(E) HP - 36	2
	--	--	--	--	27		0			0		28	--	--	--	--	
2	(E) HP - 38A	--	20	2	29			0			0	30	2	20	--	(E) FC - 32	2
	--	--	--	--	31	0			0			32	--	--	--	--	
2	(E) HP - 38B	--	20	2	33		0			0		34	2	20	--	(E) HP - 33	2
	--	--	--	--	35			0			0	36	--	--	--	--	
	SPACE	--	--	1	37	--			0			38	2	20	--	(E) HP - 34	2
	SPACE	--	--	1	39		--			0		40	--	--	--	--	
	SPACE	--	--	1	41			--			--	42	1	--	--	SPACE	

GENERAL NOTES:
a.
b.
c.
d.
e.
f.

SCHEDULE NOTES:
1. CONNECT NEW LOADS TO EXISTING BREAKER
2. EXISTING LOAD AND EXISTING BREAKER.
3.
4.
5.
6.

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
R	7680 VA	100.00%	7680 VA

LEGEND:

LOAD TYPE	LOAD DESCRIPTION
G	GENERAL
L	LIGHTING
R	RECEPTACLES
K	KITCHEN
H	HEATING
M	MOTORS
LM	LARGEST MOTOR
WH	WATER HEATER
C	CONTINUOUS

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PROJECT
BALDWIN ELEMENTARY SCHOOL MODERNIZATION
OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP. 06-30-26 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

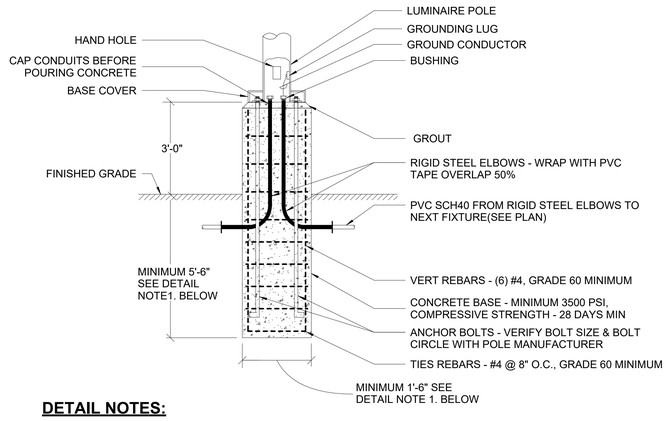
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MILESTONES
SD
50% DD
100% DD
50% CD 07.18.2025
95% CD
DSA SUB 09.05.2025

SHEET
SCHEDULES PANELBOARDS

DATE 09/05/25
JOB # 2023025
SHEET # E721

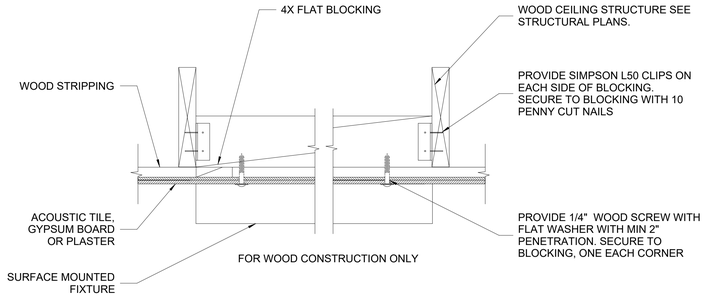
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DETAIL NOTES:

1. DETAIL BASED ON A 20'-0" (MAX) HIGH POLE WITH A FIXTURE HEAD OF 25LBS OR LESS.
2. EXEMPT FROM DSA REVIEW PER IR A-22.

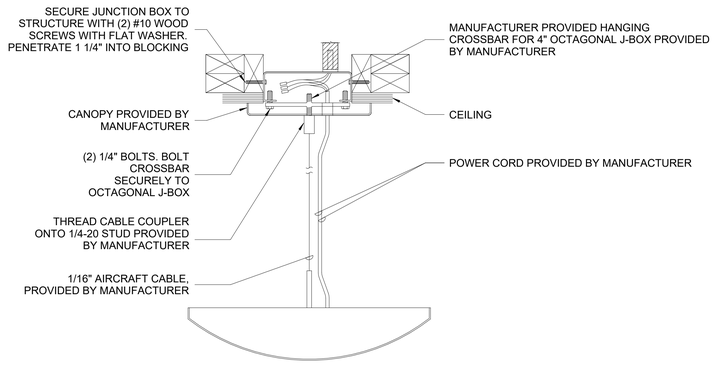
6 RAISED LIGHT POLE BASE
NTS



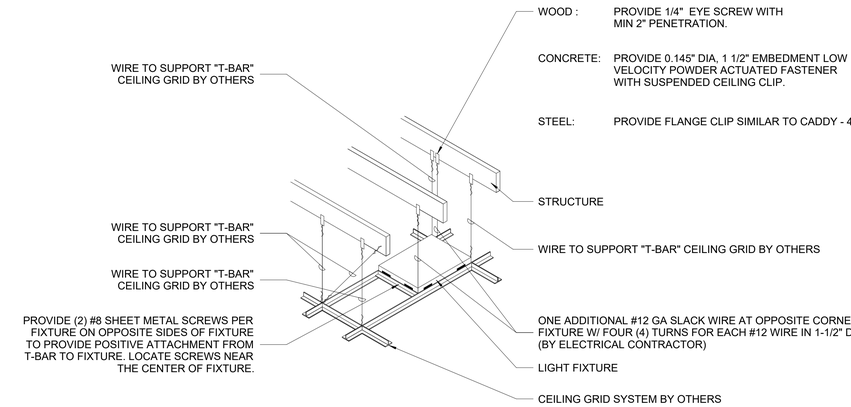
DETAIL NOTES:

1. MAX FIXTURE WEIGHT IS 22LBS, REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

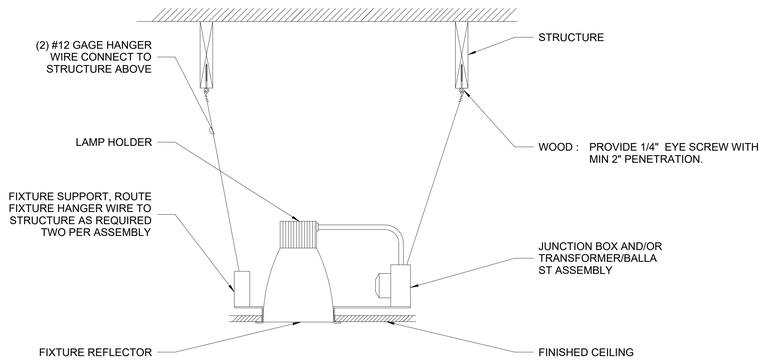
3 SURFACE FIXTURE MOUNTING
NTS



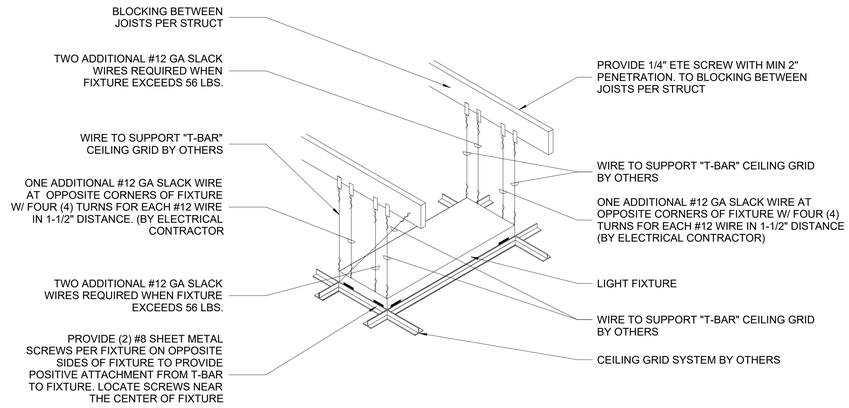
5 CABLE SUSPENDED FIXTURE MOUNTING
NTS



2 2' X 2' GRID FIXTURE MOUNTING
NTS



4 DOWNLIGHT FIXTURE MOUNTING
NTS



1 2' X 4' GRID FIXTURE MOUNTING
NTS

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fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

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CONSULTANT

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STAMP

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

DETAILS

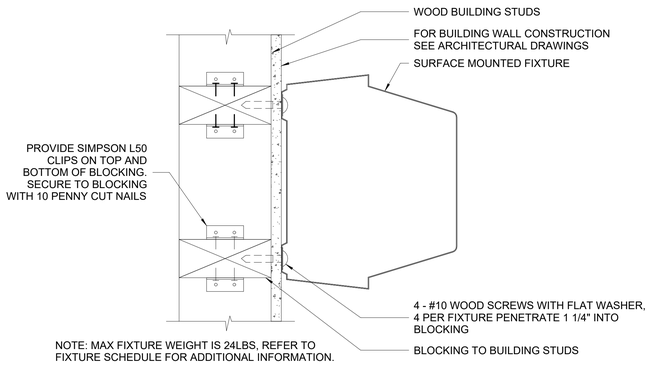
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JOB # 2023025

SHEET #

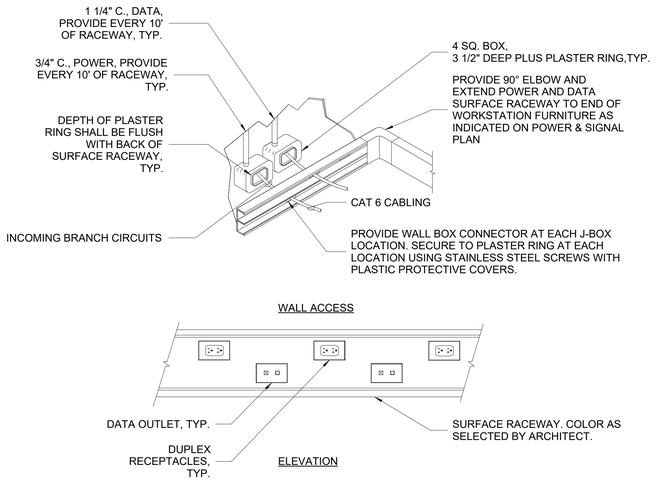
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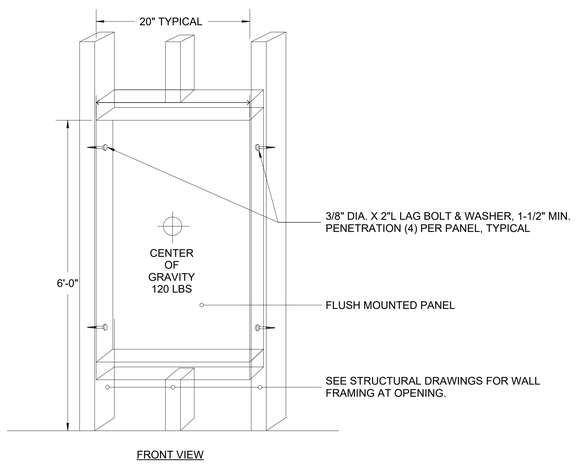
6 WALL FIXTURE MOUNTING ON WOOD STUDS

NTS



5 SURFACE RACEWAY - 2 CHANNEL

NTS

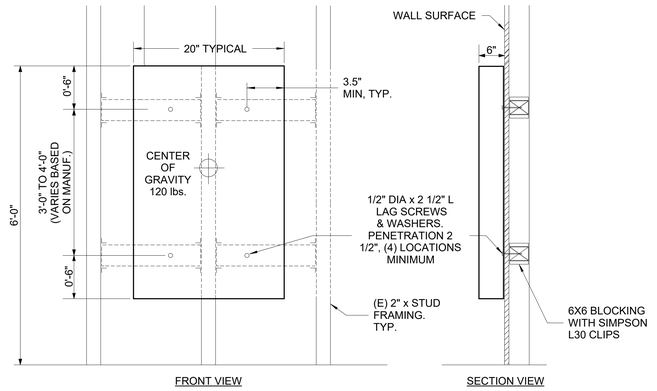


DETAIL NOTES:

1. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

4 WOOD STUD FLUSH PANEL MOUNTING

NTS

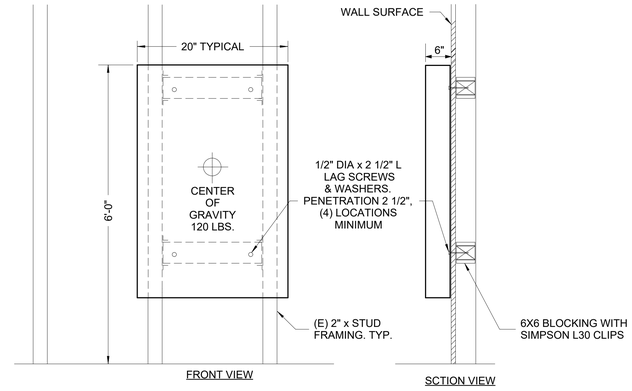


DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

3 PANEL SURFACE MOUNTING DETAIL

NTS

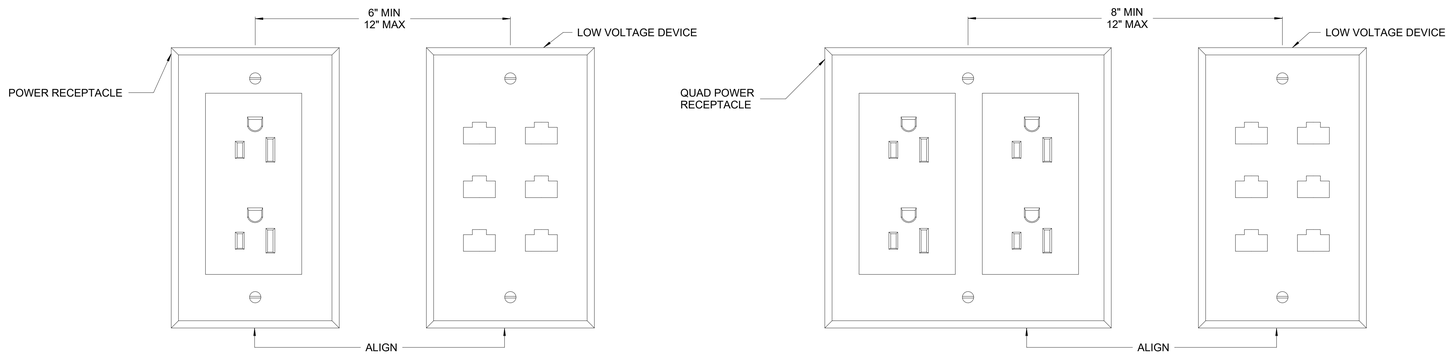


DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

2 WOOD STUD SURFACE PANEL MOUNTING

NTS



DETAIL NOTES

1. TYPICAL DEVICES SHOWN ONLY. REFER TO PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL RECEPTACLES, LOW VOLTAGE DEVICES, AND COMPONENTS.
2. CONNECTIONS BETWEEN DEVICES ARE NOT SHOWN ON PLANS. PROVIDE ALL WIRING, CONDUIT, AND MISCELLANEOUS APPURTENANCES AS REQUIRED TO CONNECT ALL DEVICES SHOWN ON PLANS.
3. GENERIC CONVENIENCE POWER OUTLETS SHOWN ONLY. WHERE CONTROLLED OUTLETS ARE INDICATED ON PLANS, PROVIDE THEM AS SHOWN IN LIEU OF REGULAR OUTLET.

1 POWER AND DATA OUTLET CONFIGURATIONS

NTS

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STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
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MILESTONES

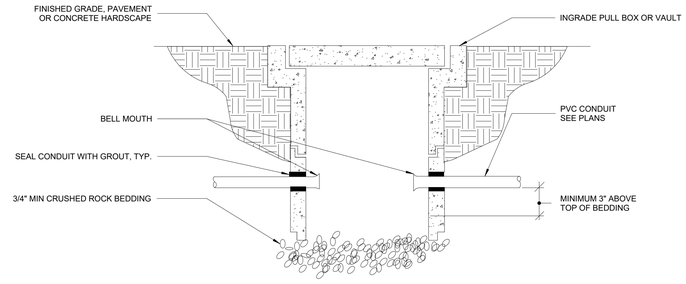
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DSA SUB	09.05.2025

SHEET

DETAILS

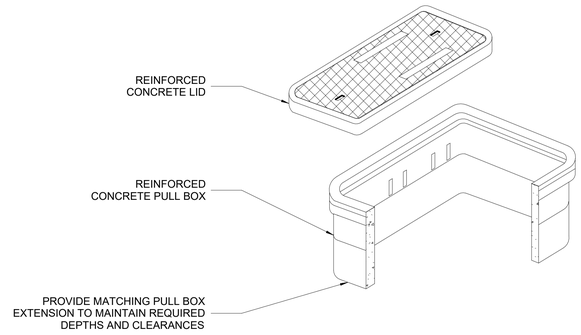
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2 INGRADE PULL BOX CONDUIT TERMINATION

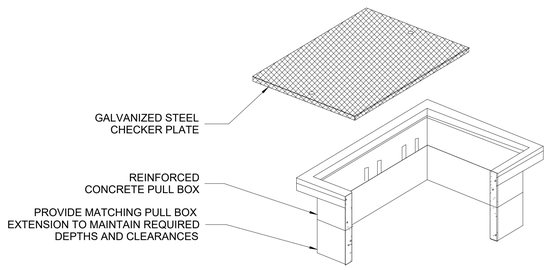
NTS



DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL.
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE). UON.

NON-TRAFFIC RATED



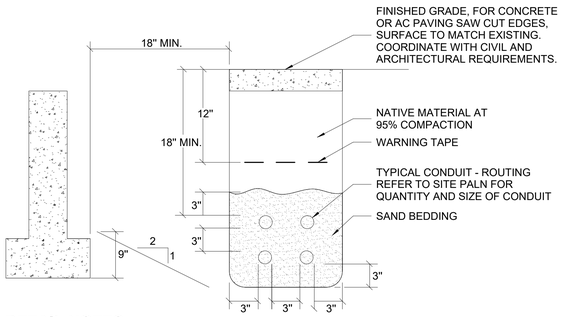
DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. TRAFFIC BOX PER CALTRANS SPECS. CHRISTY TYPE "B" SERIES PULL BOX OR EQUAL.
4. PROVIDE IN ALL AREAS SUBJECT TO VEHICULAR TRAFFIC (ASPHALT AND CONCRETE AREAS), UON. ALL VAULTS IN TRAFFIC LANES SHALL BE HS20-44 RATED. THE COVER SHALL BE MARKED TO INDICATE THE HS20-44 RATING.

TRAFFIC RATED

1 INGRADE PULL BOX

NTS



DETAIL NOTES:

1. TRENCHES PARALLEL TO FOOTINGS SHALL NOT BE BELOW A PLANE HAVING A DOWNWARD SLOPE OF 1 VERTICAL UNIT TO 2 UNITS HORIZONTAL (50 PERCENT SLOPE) FROM A LINE 9" ABOVE THE BOTTOM EDGE OF THE FOOTING.
2. TRENCHES PARALLEL TO FOOTING SHALL BE A MINIMUM DISTANCE OF 18" FROM THE FACE OF THE FOOTING.

3 CONDUIT IN TRENCH PARALLEL TO FOOTING

NTS

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP



STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

DETAILS

DATE 09/05/25

JOB # 2023025

SHEET # E802

16-04-2026 16:51:28

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: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 1 of 11)**
Project Address: 280 MARTINVALE LN, SAN JOSE, CA 95119	**Date Prepared:**	2025-09-04T03:01:12-04:00

A. GENERAL INFORMATION

01	Project Location (city)	SAN JOSE	04	Total Conditioned Floor Area (ft²)	26,281
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	1,005
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	0

● School or Classroom

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	Area Category Method	26281	Area Category Method	1005
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	26281		1005	

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 2 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

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)4Av (+)	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		16,299.05			16,299.05	≥	14,299.3		=	14299.3	COMPLIES
Unconditioned		402			402	≥	333.7		=	333.7	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 3 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

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	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
C1	LED COVE LIGHT	No	NA	10.6	Mfr. Spec	696	No	7,377.6	☐	☐
P1	LED SUSPENDED LIGHT	No	NA	1	Mfr. Spec	6	No	6	☐	☐
R1	2X4 RECESSED LED LIGHT	No	NA	26.9	Mfr. Spec	133	No	3,577.7	☐	☐
R1E	2X4 RECESSED LED LIGHT	No	NA	26.9	Mfr. Spec	38	No	1,022.2	☐	☐
R2	2X2 RECESSED LED LIGHT	No	NA	26.9	Mfr. Spec	18	No	484.2	☐	☐
R2E	2X2 RECESSED LED LIGHT	No	NA	26.9	Mfr. Spec	8	No	215.2	☐	☐
R3	6" ROUND LED DOWNLIGHT	No	NA	19.1	Mfr. Spec	56	No	1,069.6	☐	☐
R3E	6" ROUND LED DOWNLIGHT	No	NA	19.1	Mfr. Spec	8	No	152.8	☐	☐
S1	4'-0" SURFACE LED STRIP LIGHT	No	NA	19.7	Mfr. Spec	10	No	197	☐	☐
S1E	4'-0" SURFACE LED STRIP LIGHT	No	NA	19.7	Mfr. Spec	10	No	197	☐	☐
							Total Designed Watts: CONDITIONED SPACES	14,299.3		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
R3	6" ROUND LED DOWNLIGHT	No	NA	19.1	Mfr. Spec	1	No	19.1	☐	☐
R3E	6" ROUND LED DOWNLIGHT	No	NA	19.1	Mfr. Spec	1	No	19.1	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 4 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

S1	4'-0" SURFACE LED STRIP LIGHT	No	NA	19.7	Mfr. Spec	10	No	197	☐	☐
S1E	4'-0" SURFACE LED STRIP LIGHT	No	NA	19.7	Mfr. Spec	5	No	98.5	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	333.7		

[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	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 5 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
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/Sky lit 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	Pass	Fail
CUSTODIAL-68	All Other Space Types	Auth. Personnel	Multilevel Switch	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
STAFF ALL GENDER-43,86 WOMEN-44 BOYS-53,78 GIRLS-51,79 KG RR-76,77	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
HEALTH-59	Hospital - Nurse Station	Readily Accessible	Dimmer	NA: Licensed Healthcare	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
PRINCIPLE-58	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
LIBRARY-55	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
CLASSROOM-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
KINDERGARTEN-01,73,74	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
COMMONS-54,72,81	Corridor	Readily Accessible	Multilevel Switch	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
PE EQUIPMENT-52,80 STORAGE-71,85	All Other Space Types	Auth. Personnel	Multilevel Switch	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
WORKROOM-50,69,75,82	All Other Space Types	Auth. Personnel	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
ALL GENDER-61,83,84	Restroom	Readily Accessible	NA: Restrooms	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 6 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

ELECTRICAL-70	Electrical, Mechanical, or Telephone Room	Auth. Personnel	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					E300 & E301				

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	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
STAFF ALL GENDER-43,86 WOMEN-44 BOYS-53,78 GIRLS-51,79 KG RR-76,77	Restroom	0.65	1,145	744.25	No	No
HEALTH-59	Hospital - Nurse Station	0.85	240	204	No	No
PRINCIPLE-58	Office (<=250 square feet)	0.65	180	117	No	No
LIBRARY-55	Library - Reading Area	0.8	2,890	2,312	No	No
CLASSROOM-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18	Classroom, Lecture, or Training Vocational	0.6	16,270	9,762	No	No
KINDERGARTEN-01,73,74	Classroom, Lecture, or Training Vocational	0.6	2,672	1,603.2	No	No
COMMONS-54,72,81	Corridor	0.4	3,560	1,424	No	No
ALL GENDER-61,83,84	Restroom	0.65	204	132.6	No	No
			TOTALS:	27,161	16,299.05	See Tables J, or P for detail

Unconditioned Spaces

01	02	03	04	05	06

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 7 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

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
CUSTODIAL-68	All Other Space Types	0.4	115	46	No	No
PE EQUIPMENT-52,80 STORAGE-71,85	All Other Space Types	0.4	198	79.2	No	No
WORKROOM-50,69,75,82	All Other Space Types	0.4	627	250.8	No	No
ELECTRICAL-70	Electrical, Mechanical, or Telephone Room	0.4	65	26	No	No
		TOTALS:	1,005	402	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.

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 8 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

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

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 9 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	CUSTODIAL-68; STAFF ALL GENDER-43,86 WOMEN-44 BOYS-53,78 GIRLS-51,79 KG RR-76,77; PRINCIPLE-58; LIBRARY-55; CLASSROOM-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18; KINDERGARTEN-01,73,74; COMMONS-54,72,81; PE EQUIPMENT-52,80 STORAGE-71,85; WORKROOM-50,69,75,82; ALL GENDER-61,83,84
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	CLASSROOM-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18; KINDERGARTEN-01,73,74

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP

BUILDING PROFESSIONAL DAVID MAINO EP 30.06 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32

APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

TITLE 24 INTERIOR LIGHTING

DATE 09/05/25

JOB # 2023025

SHEET # E900

16-04-2026 16:51:31

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 10 of 11)**
	Date Prepared:	2025-09-04T03:01:12-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	CUSTODIAL-68; STAFF ALL GENDER-43,86 WOMEN-44 BOYS-53,78 GIRLS-51,79 KG RR-76,77; HEALTH-59; PRINCIPLE-58; LIBRARY-55; CLASSROOM-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18; KINDERGARTEN-01,73,74; COMMONS-54,72,81; PE EQUIPMENT-52,80 STORAGE-71,85; WORKROOM-50,69,75,82; ALL GENDER-61,83,84 ; ELECTRICAL-7D

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 11 of 11)**
Project Address: 280 MARTINVALE LN. SAN JOSE, CA 95119	**Date Prepared:**	2025-09-04T03:01:12-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: J. DAVID Manio, P.E.	Documentation Author Signature:
Company: Atium Engineering	Signature Date:
Address: 3533 York Lane	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon, CA 94582	Phone: 925.248.2044

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: J. DAVID Manio, P.E.	Responsible Designer Signature:
Company: Atium Engineering	Date Signed:
Address: 3533 York Lane	License: E19203
City/State/Zip: San Ramon, CA 94582	Phone: 925.248.2044

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

TITLE 24 INTERIOR LIGHTING

DATE 09/05/25

JOB # 2023025

SHEET # E910

16-04-2026 16:51:32

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor 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)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 1 of 7)**
Project Address: 280 MARTINVALE LN, SAN JOSE, CA 95119	**Date Prepared:**	2025-08-20T08:30:14-04:00

A. GENERAL INFORMATION

01	Project Location (city)	SAN JOSE	04	Total Illuminated Hardscape Area (ft²)	47658
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
• School or Classroom					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2025-08-20T08:30:14-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv | **Compliance Results**

01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,533.82	+	---	+	---	+	---	+	---	OR	---	=	1,533.82	≥	820	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 320824-0825-0006 Report Generated: 2025-08-20 05:30:18

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	2025-08-20T08:30:14-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) /160.5(c)1[4]	Field Inspector	
										Pass	Fail
ZP1	LED POLE LIGHT	☐ Linear	17	Mfr. Spec	4	New	☐	68	NA: < 6200 lumens	☐	☐
ZW1	LED WALL PACK LIGHT	☐ Linear	47	Mfr. Spec	16	New	☐	752	NA: < 6200 lumens	☐	☐
							Total Design Watts:	820			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	2025-08-20T08:30:14-04:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
PARKING LOT A: "ZP1"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
DRIVEWAY NEAR PLAY AREA: "ZP1"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
WALKWAY: "ZW1"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 320824-0825-0006 Report Generated: 2025-08-20 05:30:18

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	2025-08-20T08:30:14-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 /170.2(e))

This table includes areas using allowance calculations per 140.7 /170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
		"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
PARKING LOT A	27923	0.021	586.38	668	0.2	133.6	719.98
DRIVEWAY NEAR PLAY AREA	3535	0.021	74.24	238	0.2	47.6	121.84
WALKWAY	16200	0.021	340.2	509	0.2	101.8	442
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1533.82

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 320824-0825-0006 Report Generated: 2025-08-20 05:30:18

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	2025-08-20T08:30:14-04:00

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has 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-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	PARKING LOT A: "ZP1"; DRIVEWAY NEAR PLAY AREA: "ZP1"; WALKWAY: "ZW1"

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 320824-0825-0006 Report Generated: 2025-08-20 05:30:18

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: BALDWIN ELEMENTARY SCHOOL MODERNIZATION	**Report Page:**	**(Page 7 of 7)**
Project Address: 280 MARTINVALE LN, SAN JOSE, CA 95119	**Date Prepared:**	2025-08-20T08:30:14-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: J. DAVID Manio, P.E.	Documentation Author Signature:
Company: Atium Engineering	Signature Date:
Address: 3533 York Lane	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon, CA 94582	Phone: 925.248.2044

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: J. DAVID Manio, P.E.	Responsible Designer Signature:
Company: Atium Engineering	Date Signed:
Address: 3533 York Lane	License: E19203
City/State/Zip: San Ramon, CA 94582	Phone: 925.248.2044

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 320824-0825-0006 Report Generated: 2025-08-20 05:30:18

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP

STATE

DSA FILE NUMBER 35-32

APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

TITLE 24 EXTERIOR LIGHTING

DATE 09/05/25

JOB # 2023025

SHEET # E920

16-04-2026 16:51:33

Electrical Power Distribution Mandatory Measures:

110.12(a) DEMAND RESPONSIVE (DR) CONTROLS
ALL DEMAND RESPONSIVE CONTROLS SHALL:

1. BE EITHER A. CERTIFIED OPENADR 2.0a OR OPENADR 2.0b VIRTUAL END NODE (VEN); OR B. CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VEN AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VEN FOR THE EQUIPMENT IT CONTROLS.
2. BE CAPABLE OF COMMUNICATING USING ONE OR MORE OF THE FOLLOWING: WI-FI, ZIGBEE, BACNET, ETHERNET, OR HARD-WIRING.
3. CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED OR UNAVAILABLE.
4. DR CONTROL THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5), TECHNICAL SPECIFICATIONS FOR OCCUPANT CONTROLLED SMART THERMOSTATS.

110.12(d) DEMAND RESPONSIVE ELECTRONIC MESSAGE CENTER CONTROL
CONTROLS FOR ELECTRONIC MESSAGE CENTERS GREATER THAN 15KW SHALL BE CAPABLE OF REDUCING THE LIGHTING POWER BY A MINIMUM OF 30% WHEN RECEIVING A DR SIGNAL.

130.5(c) VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2409.80 - Baldwin ES Modernization	**Report Page:**	**(Page 3 of 4)**
	Date Prepared:	2025-08-20T21:55:27-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2409.80 - Baldwin ES Modernization	**Report Page:**	**(Page 1 of 4)**
Project Address:	**Date Prepared:**	2025-08-20T21:55:27-04:00

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	02	Climate Zone	4
			03	Occupancy Types Within Project:	Classroom

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work [1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
E400	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2409.80 - Baldwin ES Modernization	**Report Page:**	**(Page 4 of 4)**
Project Address:	**Date Prepared:**	2025-08-20T21:55:27-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 08.20.25
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

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: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 08.20.25
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2409.80 - Baldwin ES Modernization	**Report Page:**	**(Page 2 of 4)**
	Date Prepared:	2025-08-20T21:55:27-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			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.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
E400	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E600	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

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

PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP



STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

TITLE 24 POWER

DATE 09/05/25
JOB # 2023025
SHEET # E930

16-04-2026 16:51:35

PROJECT DESCRIPTION

1. OCCUPANCY TYPE: 1. (E) ADMIN/CLASSROOM BUILDING: OCC. E, TYPE V-B
   2. (E) PORTABLE BUILDINGS: OCC. E, TYPE V-N
2. SYSTEM TYPE: CLASS B, ADDRESSABLE, AUTOMATIC WITH VOICE EVACUATION SPEAKER SYSTEM
3. METHOD OF COMMUNICATION: TELEPHONE, MONITORED BY A UL LISTED SUPERVISORY STATION
4. SCOPE OF WORK: NEW FULLY AUTOMATIC FIRE ALARM SYSTEM FOR AN ENTIRE SCHOOL CAMPUS.
5. FIRE ALARM SYSTEM MEETS REQUIREMENTS OF CA SB575 GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT.

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED,THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET FORCE AND DISPLACEMENT REQUIREMENTS PERSCRIBED 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 OR MOVABLE EQUIPEMENT THAT IS PRMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS R 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTRE OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT, IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE ATTACHMENTS OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED TO BE DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

1. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTRE OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHTING 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 HUNG FROM A WALL.

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

ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.65, 13.66, 13.67, AND 13.68; 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 AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

ELECTRICAL DISTRIBUTION SYSTEM (E):

- ☒ IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN. SHEET NUMBERS: E800
- ☐ IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL. OPM NUMBERS: SHEET NUMBERS:
- ☐ IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL.

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

● = ACTION

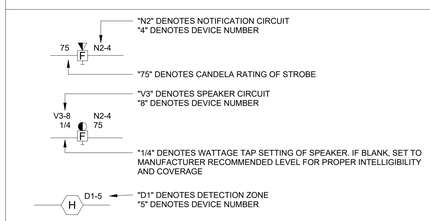
BLANK = NO ACTION

	FIRE ALARM SYSTEM INPUTS	FIRE ALARM SYSTEM OUTPUTS: CONTROL UNIT ANNUNCIATION A: ACTUATE FIRE ALARM SIGNAL INDICATOR @ FACP	B: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	C: ACTUATE AUDIBLE SUPERVISORY SIGNAL @ FACP	D: ACTUATE COMMON TROUBLE SIGNAL INDICATOR	E: ACTUATE AUDIBLE COMMON TROUBLE SIGNAL @ FACP	NOTIFICATION F: ACTUATE AUDIBLE ALARM SIGNAL THROUGHOUT BLDG	G: ACTUATE AUDIBLE ALARM SIGNAL THROUGHOUT BLDG	I: ACTIVATE LOCAL AUDIBLE SIGNAL/SOUNDER	J: TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	K: TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	L: TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	REQUIRED FIRE SAFETY CONTROL M: RELEASE MAGNETICALLY HELD SMOKE DOORS	N: SHUT DOWN HVAC UNITS OVER 2000CFM VIA RELAY MODULE	O: SHUT DOWN HVAC UNITS OVER 2000CFM VIA DUCT SMOKE	R: UNLOCK EXIT DOORS VIA CARD ACCESS SYSTEM
	FIRE ALARM SYSTEM INPUTS	A	B	C	D	E	F	G	I	J	K	L	M	N	O	R
1	MANUAL FIRE ALARM PULL STATION	●					●	●		●			●	●		●
2	SMOKE DETECTOR AT FACP	●					●	●		●			●	●		●
3	SMOKE DETECTOR - GENERAL AREA	●					●	●		●			●	●		●
4	HEAT DETECTOR - GENERAL AREA	●					●	●		●			●	●		●
6	WATER FLOW SWITCH ACTIVATION	●					●	●	●	●			●	●		●
7	VALVE TAMPER SWITCH ACTIVATION		●	●					●		●					
8	DUCT SMOKE DETECTOR ACTIVATION	●					●	●		●			●		●	●
14	ANSUL SYSTEM ACTIVATED	●					●	●		●			●			●
15	CELLULAR COMMUNICATOR TROUBLE					●	●					●				
16	DACT COMMUNICATOR TROUBLE					●	●					●				
17	FIRE ALARM AC POWER FAILURE					●	●					●				
18	FIRE ALARM SYSTEM LOW BATTERY					●	●					●				
19	FIRE ALARM OPEN CIRCUIT					●	●					●				
20	FIRE ALARM GROUND FAULT					●	●					●				
21	NAC CIRCUIT SHORT					●	●					●				
22	CONTROL VALVE ON BACK FLOW PREVENTER		●	●					●		●					
23	CONTROL VALVE ON POST INDICATOR VALVE		●	●					●		●					

FIRE ALARM SYMBOLS

F	MANUAL PULL STATION, SEE DETAIL ON F801 FOR MOUNTING HEIGHT MODEL: FIRELITE BG-12LX CSFM: 7150-0075:0184
WP F	SPEAKER - WEATHER PROOF, VANDAL RESISTANT MODEL: WHEELOCK EL3RSPK CSFM: 7320-0785:0167
F	SPEAKER/STROBE MODEL: WHEELOCK ELSPSTR CSFM: 7320-0785:0505
H C	HEAT DETECTOR - ABOVE CEILING MODEL: FIRELITE H365 CSFM: 7272-0075:0501
S	SMOKE DETECTOR MODEL: FIRELITE SD365 CSFM: 7272-0075:0502
FACP	FIRE ALARM CONTROL PANEL WITH MICROPHONE MODEL: FIRELITE ES-1000X CSFM: 7165-0075:0500
RNPS	REMOTE NOTIFICATION POWER SUPPLY MODEL: WHEELOCK PS-10 CSFM: 7300-0785:0506
AMP	SPEAKER AMPLIFIER/POWER SUPPLY MODEL: FIRELITE ECC-50DA CSFM: 7300-0075:0227
RM	ADDRESSABLE RELAY MODULE MODEL: FIRELITE CRF-300 CSFM: 7300-0075:0185
MIC	MICROPHONE STATION FOR VOICE EVAC MODEL: FIRELITE ECC-50 CSFM: 6911-0075:0226
F F	BEAM DETECTOR TRANSCEIVER AND REFLECTOR MODEL: FIRELITE OSI-RI-FL CSFM: 7260-0075:0506
PIV	POST INDICATOR VALVE
VTS	VALVE TAMPER SWITCH
WFS	WATER FLOW SWITCH
MM	MONITOR MODULE MODEL: FIRELITE MMF-300 CSFM: 7300-0075:0185
RA	REMOTE ANNUNCIATOR MODEL: FIRELITE ANN-80 CSFM: 7120-0075:0211
FADC	FIRE ALARM DOCUMENTATION CABINET MODEL: SPACE AGE ELECTRONICS ACE2424 CSFM: 7300-0553:0110
FSD	FIRE SMOKE DAMPER
FATC	FIRE ALARM TERMINATION CABINET
MD	MAGNETIC DOOR HOLDER
Y X	IN-GRADE PULL BOX. "Y" = UNIQUE BOX IDENTIFIER "X" = SYSTEM: P = POWER C = COMMUNICATIONS F = FIRE ALARM L = LIGHTING

TYPICAL ZONE NOMENCLATURE



FIRE ALARM SEQUENCE OF OPERATIONS

1. ACTIVATION OF ANY SYSTEM PULL STATION, SMOKE DETECTOR, HEAT DETECTOR, OR WATER FLOW SWITCH SHALL CAUSE ALL SIGNAL DEVICES CONNECTED TO THE SYSTEM TO ACTIVATE AND SOUND. FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INDICATE THE SOURCE OF THE ALARM AND ALARM LIGHT(S) ON THE FIRE ALARM PANEL WILL ILLUMINATE. ACTIVATION OF ALARM SHALL CAUSE THE DIGITAL ALARM COMMUNICATIONS TRANSMITTER TO TRANSMIT THE ALARM TO A U.L. LISTED CENTRAL STATION.
2. ACTIVATION OF A VALVE SUPERVISORY SWITCH OR SHOULD AN OPEN GROUND OR FAULT OCCUR IN THE WIRING, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A TROUBLE SIGNAL AND SHALL INDICATE THE SOURCE OF THE TROUBLE.
3. ACTIVATION OF A CARBON MONOXIDE DETECTOR, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A SUPERVISORY SIGNAL AND SHALL INDICATE THE LOCATION OF THE DETECTOR.
4. UPON ACTIVATION OF FIRE ALARM SYSTEM, RELAY MODULES ASSOCIATED WITH FIRE/SMOKE DAMPERS SHALL RELEASE DAMPER AND ALLOW DAMPER TO CLOSE. UPON RESSETTING OF PANEL, RELAY MODULE SHALL RESTORE POWER TO DAMPER AND DAMPER SHALL OPEN.
5. UPON ACTIVATION OF FIRE ALARM SYSTEM, RELAY MODULES ASSOCIATED WITH AIR HANDLING EQUIPMENT SHALL SHUT DOWN ASSOCIATED UNIT TO PREVENT SMOKE FROM PROPOGATING THROUGH THE BUILDING. UPON RESSETTING OF PANEL, RELAY MODULE SHALL RESTORE POWER TO UNIT AND UNIT SHALL RESUME NORMAL OPERATION.
6. EMERGENCY VENTILATION AND SMOKE VENTS AT THEATER SHALL BE OPENED VIA FUSIBLE LINK WITHIN VENTS. AFTER LINK HAS BEEN MELTED, A NEW LINK SHALL BE PROVIDED AND THE VENTS SHALL BE MANUALLY CLOSED.
7. ONCE THE SYSTEM IS BACK TO NORMAL, THE PANEL WILL RESOUND FOR PROPER RESETTING.
8. THE FIRE ALARM PANEL SHALL BE BACKED UP BY STANDY BATTERIES FOR 24 HOURS AND 15 MINUTES OF ALARM.
9. ALARM SILENCE CAN ONLY BE PERFORMED AFTER 15 MIN. OF ALARM IN ANY CONDITION.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2022 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNINGS.
11. 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

SHEET LIST FIRE ALARM

Sheet Number	Sheet Name
F000	GENERAL INFORMATION
F100	SITE PLAN
F200	DEMO FIRE ALARM BUILDING A - PART A
F201	DEMO FIRE ALARM BUILDING A - PART B
F202	DEMO FIRE ALARM - BUILDING CLUSTER B & C
F300	NEW FIRE ALARM - PART A
F301	NEW FIRE ALARM - PART B
F302	NEW FIRE ALARM - BUILDING CLUSTER B & C
F600	FA DIAGRAMS PART - A
F601	FA DIAGRAMS PART B
F602	FA DIAGRAMS CLUSTER BUILDING B AND C
F700	SCHEDULES
F701	SCHEDULES
F800	DETAILS
F801	DETAILS

FIRE ALARM GENERAL NOTES

A. PLANS SHALL BE APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" (DSA) PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE AND INSTALLATION OF THE SYSTEM.

B. ALL FIRE ALARM DEVICES SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED.

C. FIRE ALARM WIRING AND MATERIALS SHALL BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760. MINIMUM WIRE SHALL BE TWO (2) #14 AWG FOR INITIATING CIRCUITS AND TWO (2) #14 AWG FOR INDICATING CIRCUITS.

D. FIRE ALARM WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (i.e. THHW OR EQUAL).

E. PER CEC STANDARDS ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM BOX TO THE DEVICE. ALL BOXES SIZED PER CEC.

F. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF FIRE- STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.

G. VISUAL FIRE ALARM DEVICES SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELAS. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE. DEVICES WITHIN 55' OF EACH OTHER SHALL BE SYNCHRONIZED.

H. ALL FIRE ALARM DEVICE CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A PERMANENT RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. (2022 NFPA 72 SECTION 10.6.5.2.1)

I. THE CONTRACTOR SHALL ADJUST ALL DEVICES TO MAXIMUM PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

J. FIRE ALARM EVACUATION SIGNAL SHALL SOUND A THREE-PULSE TEMPORAL PATTERN (2022 CBC 907.5.2.1.3 AND 2022 NFPA 72 18.4.2.1). CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN (2022 NFPA 72, 5.8.6.5.1).

K. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPABLE AREAS. (2022 NFPA 72 SECTION 18.4.3.1) (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS 60 dBA MINIMUM ALARM TONE REQUIRED). SOUND TO BE MAINTAINED FOR A MINIMUM DURATION OF 60 SECONDS.

L. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2022 NFPA 72 SECTION 18.5.3.1)

M. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. (2022 NFPA 72 SECTION18.4)

N. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

O. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

P. DSA, ARCHITECT AND ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

Q. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION.

R. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

S. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE OWNER, ARCHITECT AND INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (2022 NFPA 72 SECTION 7.8.2 AND 14.6 AND FIGURE 7.8.2(a) - 7.8.2(1)).

T. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM MONITORING CONTRACT OR PROVISIONS. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.6.2.

U. PROVIDE A STANDALONE DOCUMENTATION CABINET ADJACENT TO THE FIRE ALARM CONTROL PANEL. ALL RECORDED DOCUMENTATION PERTAINING TO THE FIRE ALARM SYSTEM INSTALLED SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2). THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

CONDUIT FILL CALC

Cable Types with Different Diameters	#12 3/4"C	#14 3/4" C	#16 3/4"C	#12 1"C	#14 1" C	#16 1"C	#12 2"C	#14 2" C	#16 2"C
Cable Type	#12	#14	#16	#12	#14	#16	#12	#14	#16
Cable Size: Diameter (inches)	0.13	0.11	0.09	0.13	0.11	0.09	0.13	0.11	0.09
Number of Cables	15	21	31	25	35	50	95	135	200
Cable Cross sectional Area:	0.20	0.20	0.20	0.33	0.33	0.32	1.27	1.29	1.28
Enter number of bends (0,1,2,or 3) for bends factor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Conduit I.D.	0.80	0.80	0.80	1.03	1.03	1.03	2.05	2.05	2.05
Conduit Cross Sectional Area:	0.51	0.51	0.51	0.84	0.84	0.84	3.32	3.32	3.32
40% Conduit Fill Requirement Factor (Adjusted by Bends factor):	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Max Conduit Fill Allowed:	**0.20**	**0.20**	**0.20**	**0.34**	**0.34**	**0.34**	**1.33**	**1.33**	**1.33**
Percent Conduit Fill:	**39.2%**	**39.3%**	**38.8%**	**39.8%**	**39.9%**	**38.2%**	**38.2%**	**38.9%**	**38.5%**

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
3533 York Lane
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tel: 913.961.1658
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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXPIRES 09-30-26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32

APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

GENERAL INFORMATION

DATE 09/05/25

JOB # 2023025

SHEET # F000

16-04-2026 16:51:36

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP

GENERAL NOTES:

A. THERE SHALL BE NO UNDERGROUND SPLICES, UNLESS OTHERWISE NOTED.

B. LABEL IN GRADE FIRE ALARM PULL BOXES AS "FIRE ALARM."

C. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

D. ALL EXTERIOR UNDERGROUND FIRE ALARM CONDUIT SHALL BE 1", UNLESS OTHERWISE NOTED.

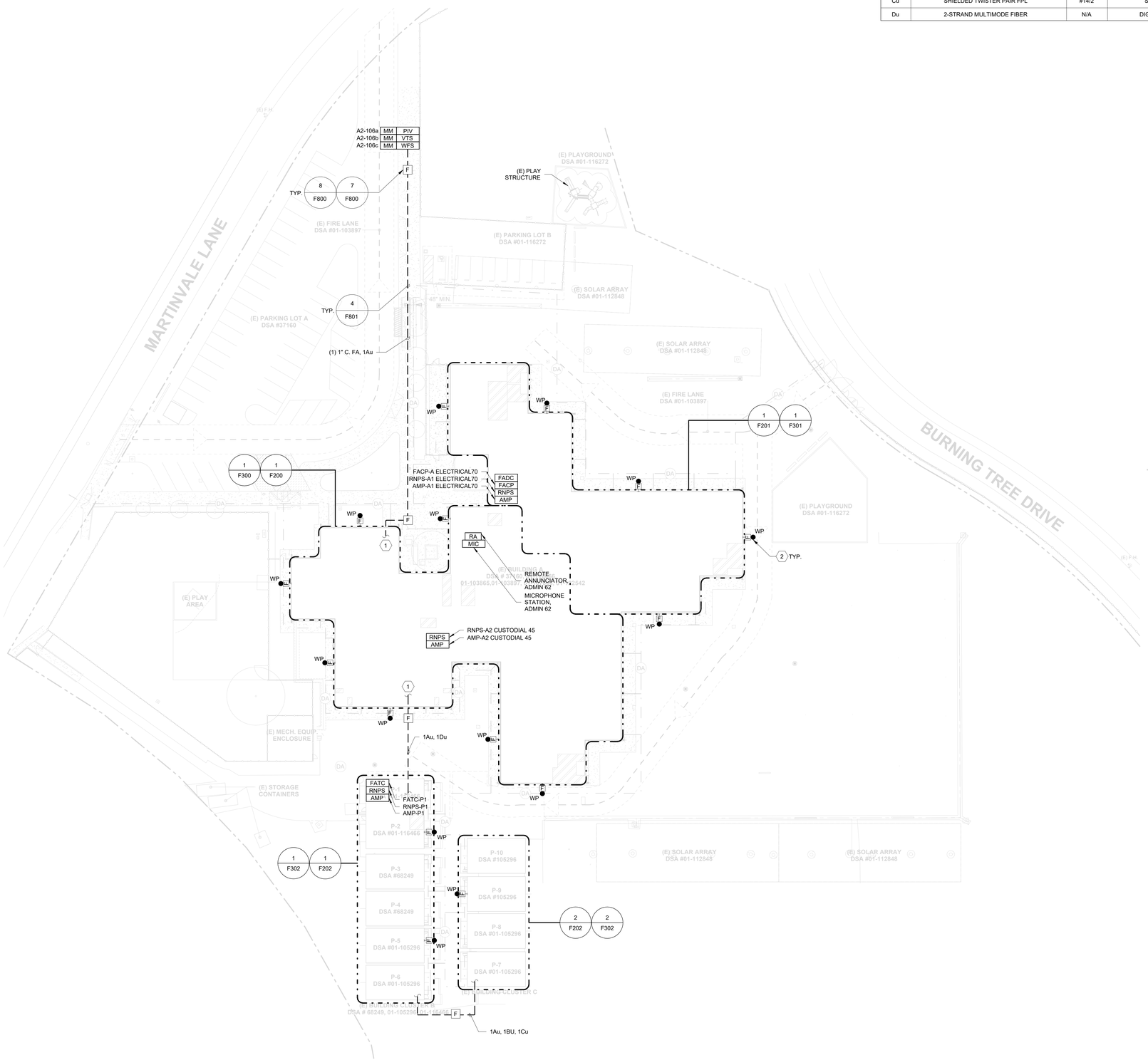
E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

F. CONNECT ALL POST INDICATOR VALVES AND BACK FLOW PREVENTORS VIA ADDRESSABLE MODULE.

G. CONTRACTOR SHALL SIZE IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

SHEET NOTES:

1. SEE SHEET F300 FOR CONTINUATION OF THIS CONDUIT.
2. EXTERIOR AUDIBLE DEVICES SHOWN ON THIS PLAN FOR LOCATION ONLY. REFER TO FLOOR PLANS FOR CIRCUIT INFORMATION, WATTAGE, AND CONNECTIVITY TO INTERIOR DEVICES.



1 FIRE ALARM PLAN - SITE
1" = 30'-0"

N

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PROJECT

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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP 6/30/26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

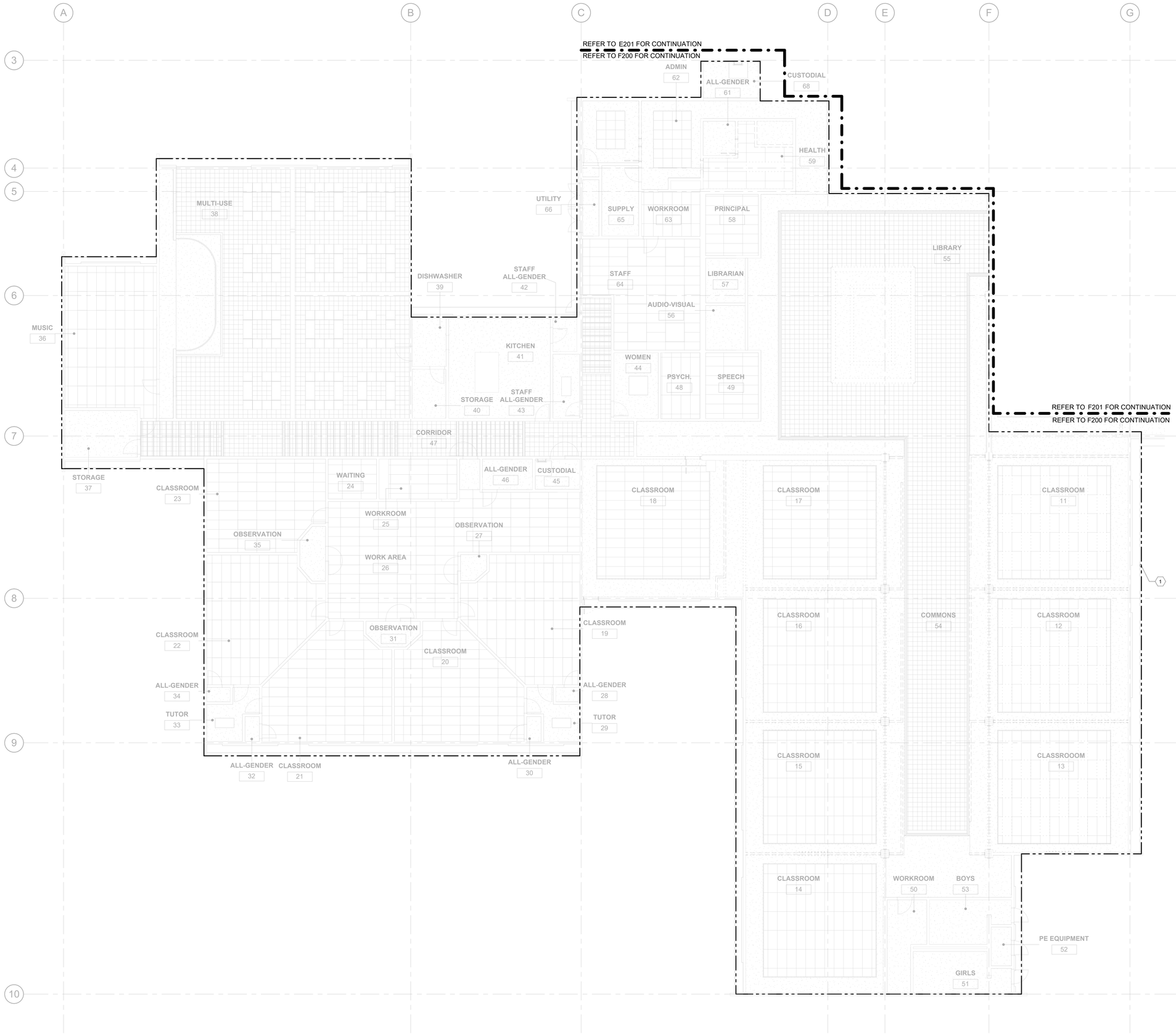
SITE PLAN

DATE 09/05/25

JOB # 2023025

SHEET # F100

16-04-2026 16:51:37



1 FA DEMO PARTIAL REFLECTED CELLING PLAN - BUILDING A (PART A)
1/8" = 1'-0"

N

GENERAL INFORMATION:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING FIRE ALARM INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL FIRE ALARM DEVICES, MODULES, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR FIRE ALARM EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE FIRE ALARM SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING FIRE ALARM WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING FIRE ALARM MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER

(#) SHEET NOTES:

1. REMOVE ALL FIRE ALARM DEVICES, CONDUITS, AND WIRING / CABLING IN THE INDICATED AREA PER THE GENERAL DEMOLITION NOTES ON THIS SHEET.

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PROJECT
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STAMP
REGISTERED PROFESSIONAL ENGINEER DAVID MAINO No. EE 20308 ELECTRICAL STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET
DEMO FIRE ALARM BUILDING A - PART A

DATE 09/05/25
JOB # 2023025
SHEET # F200

16-04-2026 16:51:38



1 FA DEMO PARTIAL REFLECTED CELLING PLAN - BUILDING A (PART B)

1/8" = 1'-0"

N

GENERAL INFORMATION:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING FIRE ALARM INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL FIRE ALARM DEVICES, MODULES, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR FIRE ALARM EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE FIRE ALARM SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING FIRE ALARM WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING FIRE ALARM MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER

SHEET NOTES:

1. REMOVE ALL FIRE ALARM DEVICES, CONDUITS, AND WIRING / CABLING IN THE INDICATED AREA PER THE GENERAL DEMOLITION NOTES ON THIS SHEET.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
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tel: 913.961.1658
email: maino@atiumeng.com

STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP. 6-30-26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

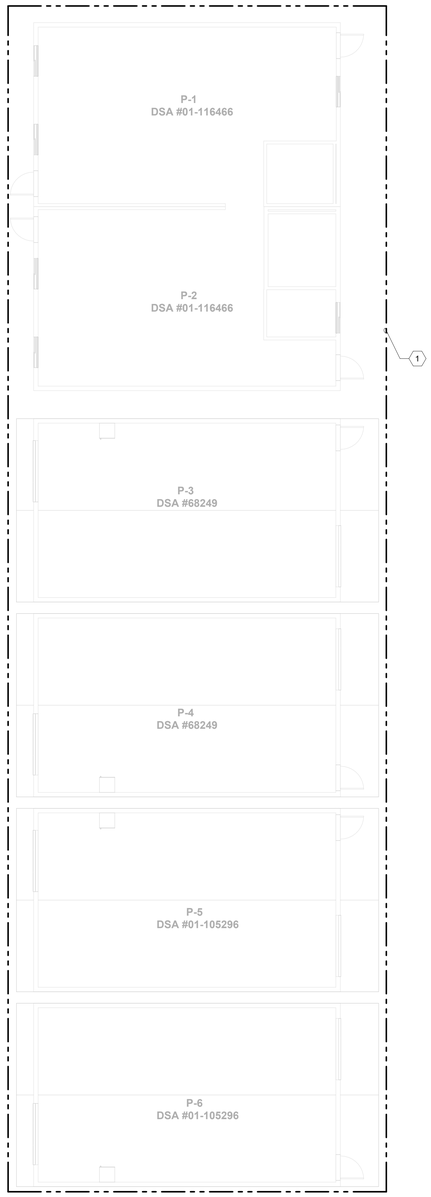
DEMO FIRE ALARM BUILDING A - PART B

DATE 09/05/25

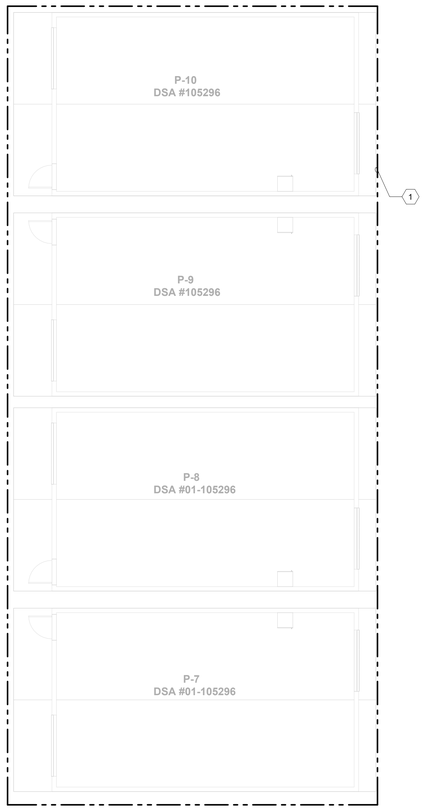
JOB # 2023025

SHEET # F201

16-04-2026 18:51:39



1 DEMO BUILDING CLUSTER B
1/8" = 1'-0"



2 DEMO BUILDING CLUSTER C
1/8" = 1'-0"

GENERAL INFORMATION:

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING FIRE ALARM INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL FIRE ALARM DEVICES, MODULES, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR FIRE ALARM EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE FIRE ALARM SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING FIRE ALARM WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING FIRE ALARM MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER

SHEET NOTES:

1. REMOVE ALL FIRE ALARM DEVICES, CONDUITS, AND WIRING / CABLING IN THE INDICATED AREA PER THE GENERAL DEMOLITION NOTES ON THIS SHEET.

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO 19308 ELECTRICAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

DEMO FIRE ALARM - BUILDING CLUSTER B & C

DATE	09/05/25
JOB #	2023025
SHEET #	F202

16-04-2026 18:51:40

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP

GENERAL INFORMATION:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. CONNECT ALL DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS, ROLLING SMOKE DOORS AND FIRE SMOKE DAMPERS TO FACP. PROVIDE POWER SUPPLY AND 120V/24V TRANSFORMERS AS REQUIRED. SEE WIRING DIAGRAM.

I. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135°F COMBINATION FIXED TEMPERATURE RATE OF RISE, UNLESS OTHERWISE NOTED.

J. CONNECT ALL WATER FLOW SWITCHES AND TAMPER SWITCHES. VIA ADDRESSABLE MODULE.

(#) SHEET NOTES:

1. PROVIDE RELAY MODULE TO INTERFACE WITH (E) HVAC UNIT. UNIT INTERCONNECT SUCH THAT UNIT SHALL SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.
2. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.
3. PROVIDE RELAY MODULE TO CONNECT TO (E) FIRE SMOKE DAMPER. DAMPER SHALL CLOSE UPON ACTIVATION OF FIRE ALARM SYSTEM. TYP ALL FIRE SMOKE DAMPERS SHOWN.
4. PROVIDE RELAY MODULE TO CONNECT TO (E) MAGNETIC DOOR HOLDER. DOOR SHALL CLOSE UPON ACTIVATION OF FIRE ALARM SYSTEM.
5. CONNECT ANSUL UNIT FIRE SUPPRESSION SYSTEM (BY OTHER TRADES) VIA ADDRESSABLE RELAY MODULE. PROVIDE FOR AUTOMATIC SHUT OFF ON ALL ELECTRICAL EQUIPMENT UNDER THE ASSOCIATED HOOD.
6. PROVIDE REMOTE TEST SWITCHES FOR BEAM DETECTORS IN THIS SPACE.
7. SEE SHEET F100 FOR CONTINUATION OF THIS CONDUIT.
8. SEE SHEET F301 FOR CONTINUATION OF THIS CABLE.

1 FA PARTIAL REFLECTED CELLING PLAN - BUILDING A (PART A)
1/8" = 1'-0"

N

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PROJECT

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OAK GROVE SCHOOL DISTRICT

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER — MARK D. MAINO — No. E8736 — ELECTRICAL — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
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MILESTONES

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50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

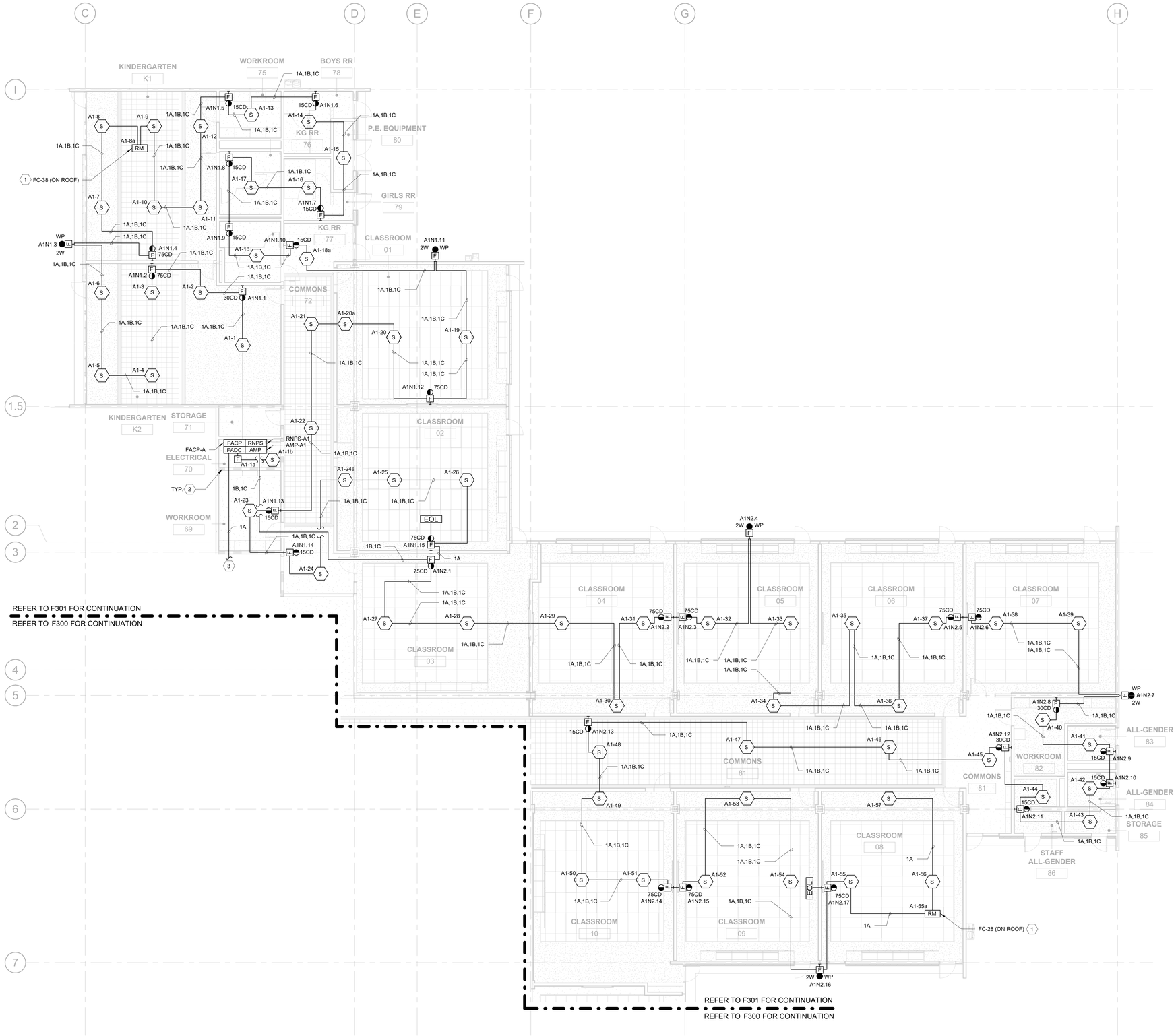
NEW FIRE ALARM - PART A

DATE 09/05/25

JOB # 2023025

SHEET # F300

16-04-2026 18:51:42



1 FA PARTIAL REFLECTED CELLING PLAN - BUILDING A (PART B)
1/8" = 1'-0"

GENERAL INFORMATION:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. CONNECT ALL DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS, ROLLING SMOKE DOORS AND FIRE SMOKE DAMPERS TO FACP. PROVIDE POWER SUPPLY AND 120V/24V TRANSFORMERS AS REQUIRED. SEE WIRING DIAGRAM.

I. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135°F COMBINATION FIXED TEMPERATURE RATE OF RISE, UNLESS OTHERWISE NOTED.

J. CONNECT ALL WATER FLOW SWITCHES AND TAMPER SWITCHES. VIA ADDRESSABLE MODULE.

(#) SHEET NOTES:

1. PROVIDE RELAY MODULE TO INTERFACE WITH (E) HVAC UNIT. UNIT INTERCONNECT SUCH THAT UNIT SHALL SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.
2. FIRE RATED WALL. PROVIDE UL LISTED FIRE STOP MATERIALS FOR ANY NEW PENETRATIONS THROUGH THIS WALL. TYP ALL WALLS SHOWN WITH THIS LINETYPE.
3. SEE SHEET F300 FOR CONTINUATION OF THIS CABLE.

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO No. EE 20636 STATE OF CALIFORNIA ELECTRICAL

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

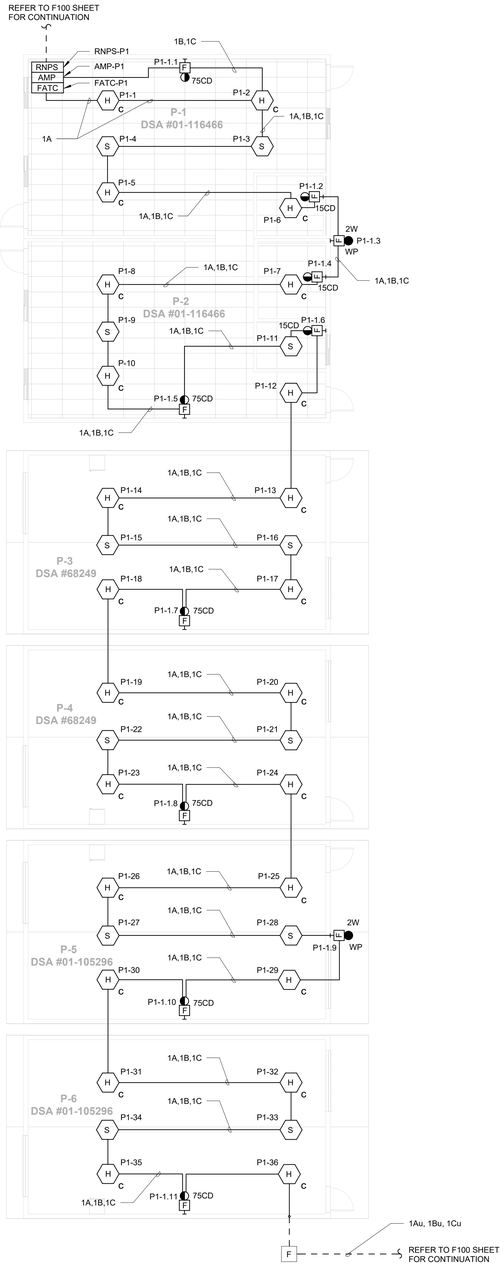
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50% DD	
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50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

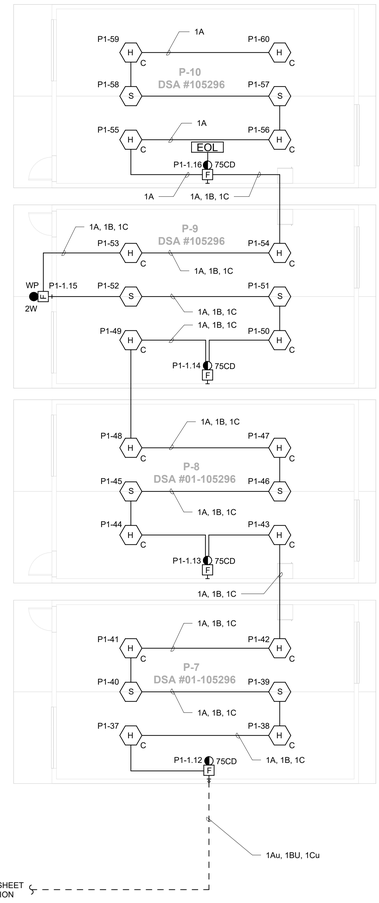
NEW FIRE ALARM - PART B

DATE 09/05/25
JOB # 2023025
SHEET # F301

16-04-2026 16:51:43



1 BUILDING CLUSTER B
1/8" = 1'-0"



2 BUILDING CLUSTER C
1/8" = 1'-0"

GENERAL INFORMATION:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. CONNECT ALL DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS, ROLLING SMOKE DOORS AND FIRE SMOKE DAMPERS TO FACP. PROVIDE POWER SUPPLY AND 120V/24V TRANSFORMERS AS REQUIRED. SEE WIRING DIAGRAM.

I. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135°F COMBINATION FIXED TEMPERATURE RATE OF RISE, UNLESS OTHERWISE NOTED.

J. CONNECT ALL WATER FLOW SWITCHES AND TAMPER SWITCHES.VIA ADDRESSABLE MODULE.

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO Expires 6-30-26 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32

APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

NEW FIRE ALARM - BUILDING CLUSTER B & C

DATE 09/05/25

JOB # 2023025

SHEET # F302

16-04-2026 16:51:44

GENERAL NOTES:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16 AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. THE PROJECT INSPECTOR SHALL VERIFY CANDELA SETTINGS, AFTER INSTALLATION, OF ALL MULTI-CANDELA VISUAL NOTIFICATION DEVICES DUE TO FIELD ADJUSTABILITY.

E. THE CONTRACTOR SHALL HAND WRITE THE DATE OF INSTALLATION ON ALL FIRE ALARM BATTERIES IN A LOCATION VISIBLE TO SERVICE PERSONNEL.

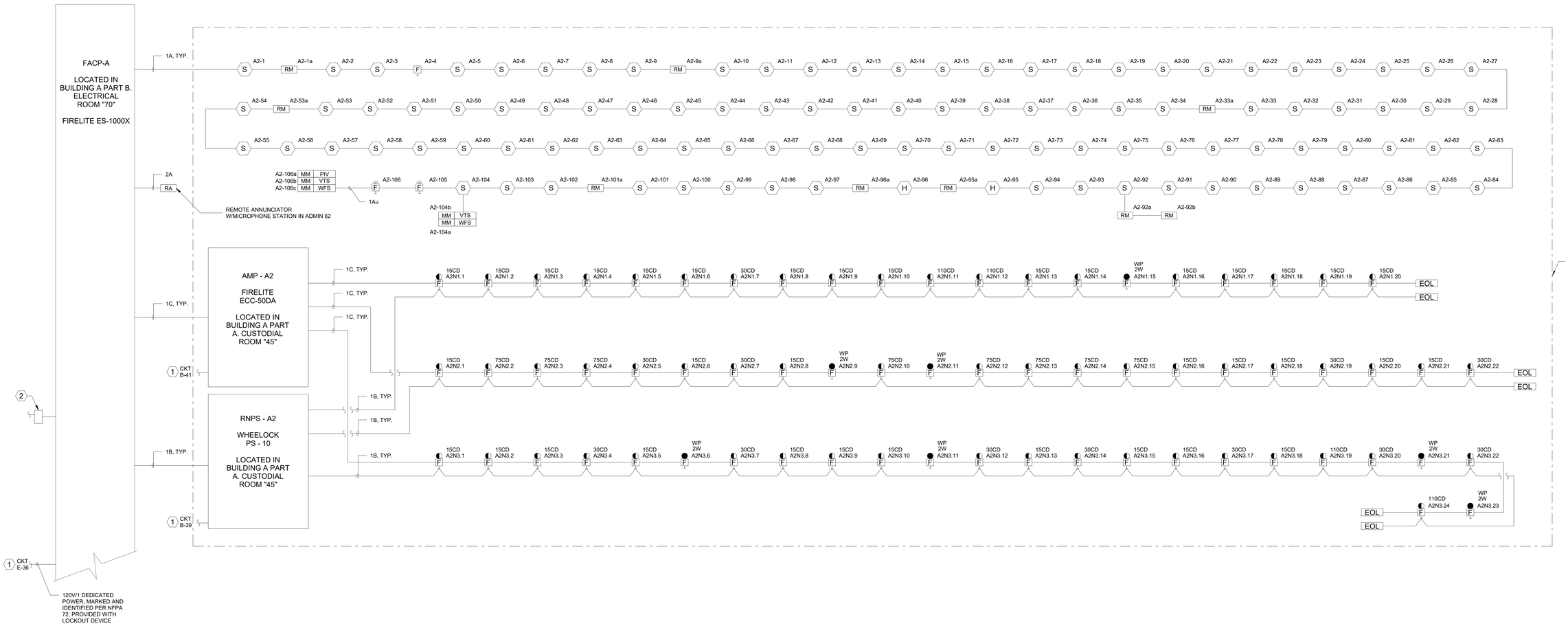
(#) SHEET NOTES:

1. PROVIDE DEDICATED 120V/1 CIRCUIT. MARK AND IDENTIFY PER NFPA72 AND PROVIDE RED BREAKER WITH LOCKOUT DEVICE. REFER TO POWER PLAN FOR CIRCUIT INFORMATION.

2. PROVIDE CELL DIALER AND UDACT. CONNECT FIRE ALARM PANEL TO TELEPHONE SYSTEM AND CELL DIALER. PROGRAM WITH DISTRICT'S PREFERRED UL LISTED CENTRAL STATION INFORMATION.

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 RISER DIAGRAM NEW FIRE ALARM - PART A
NTS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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STAMP

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD
50% DD
100% DD
50% CD 07.18.2025
95% CD
DSA SUB 09.05.2025

SHEET

FA DIAGRAMS PART - A

DATE 09/05/25
JOB # 2023025
SHEET # F600

16-04-2026 16:51:46

GENERAL NOTES:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16 AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. THE PROJECT INSPECTOR SHALL VERIFY CANDELA SETTINGS, AFTER INSTALLATION, OF ALL MULTI-CANDELA VISUAL NOTIFICATION DEVICES DUE TO FIELD ADJUSTABILITY.

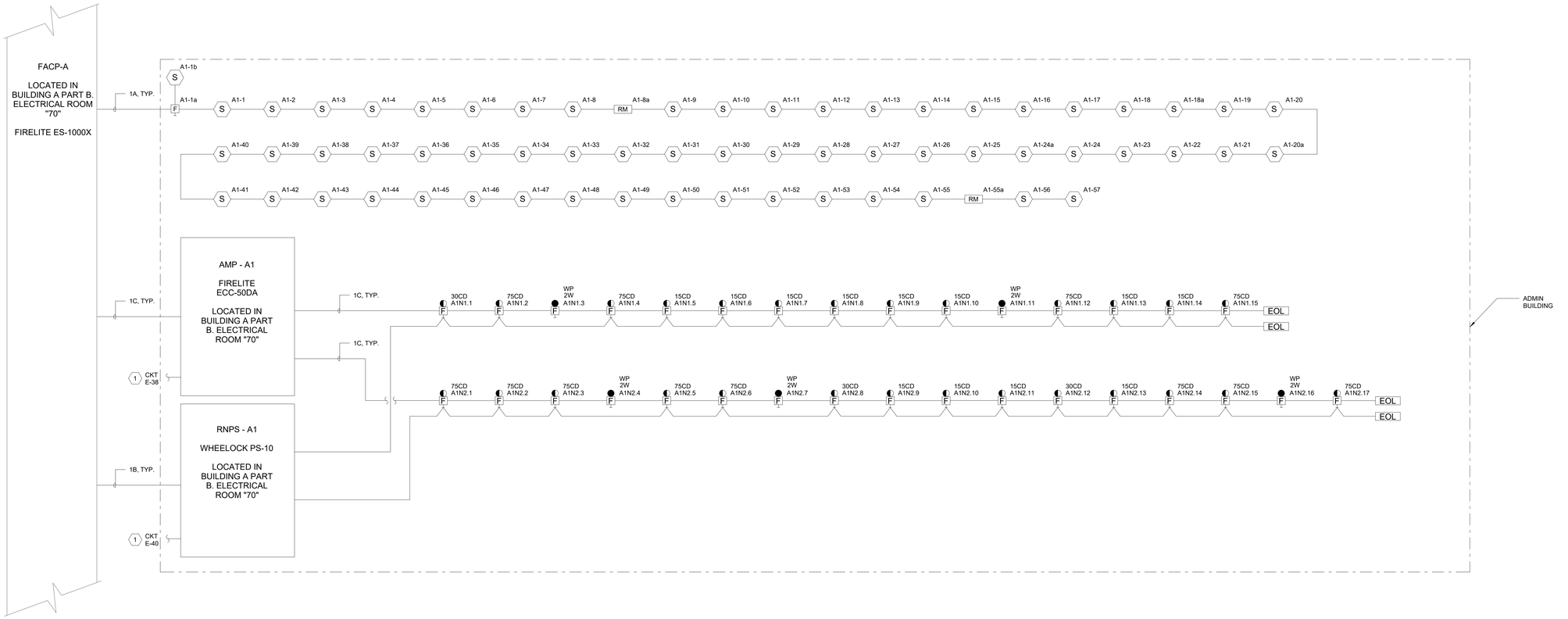
E. THE CONTRACTOR SHALL HAND WRITE THE DATE OF INSTALLATION ON ALL FIRE ALARM BATTERIES IN A LOCATION VISIBLE TO SERVICE PERSONNEL.

(#) SHEET NOTES:

1. PROVIDE DEDICATED 120V/1 CIRCUIT. MARK AND IDENTIFY PER NFPA72 AND PROVIDE RED BREAKER WITH LOCKOUT DEVICE. REFER TO POWER PLAN FOR CIRCUIT INFORMATION.

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 RISER DIAGRAM NEW FIRE ALARM - PART B
NTS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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email: maino@atiumeng.com

STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP. 06-30-26 ELECTRICAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

FA DIAGRAMS PART B

DATE 09/05/25

JOB # 2023025

SHEET # F601

16-04-2026 16:51:47

GENERAL NOTES:

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16 AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. THE PROJECT INSPECTOR SHALL VERIFY CANDELA SETTINGS, AFTER INSTALLATION, OF ALL MULTI-CANDELA VISUAL NOTIFICATION DEVICES DUE TO FIELD ADJUSTABILITY.

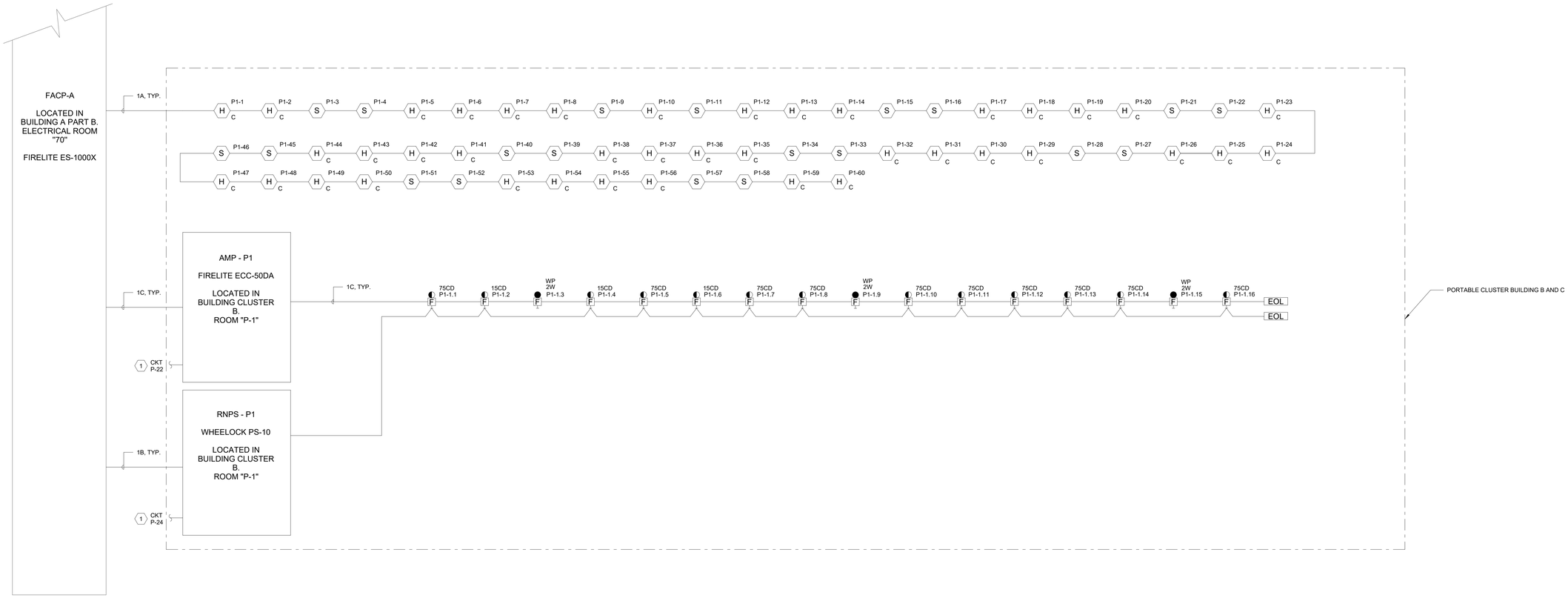
E. THE CONTRACTOR SHALL HAND WRITE THE DATE OF INSTALLATION ON ALL FIRE ALARM BATTERIES IN A LOCATION VISIBLE TO SERVICE PERSONNEL.

(#) SHEET NOTES:

1. PROVIDE DEDICATED 120V/1 CIRCUIT. MARK AND IDENTIFY PER NFPA72 AND PROVIDE RED BREAKER WITH LOCKOUT DEVICE. REFER TO POWER PLAN FOR CIRCUIT INFORMATION.

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 RISER DIAGRAM CLUSTER BUILDING B AND C FIRE ALARM
NTS

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www.aedisarchitects.com
387 S. 1st Street, Suite 300
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tel: (408)-300-5160
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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

atium ENGINEERING
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: maino@atiumeng.com

STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID MAINO EXP. 06-30-26 ELECTRICAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

FA DIAGRAMS CLUSTER BUILDING B AND C

DATE 09/05/25
JOB # 2023025
SHEET # F602

16-04-2026 16:51:47

FAS BATTERY CALCULATION "FACP"

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
1	FIRELITE ES-1000X	FACP	0.11100	0.11100	0.24300	0.24300
3	WHEELOCK PS-10	RNPS	0.12900	0.38700	0.12900	0.38700
182	FIRELITE SD365	SMOKE DETECTOR	0.00200	0.36400	0.00045	0.08190
42	FIRELITE H365	HEAT DETECTOR	0.00030	0.01260	0.00650	0.27300
5	FIRELITE MMF-300	MONITOR MODULE	0.00075	0.00375	0.00640	0.03200
11	FIRELITE CRF-300	RELAY MODULE	0.00023	0.00253	0.00650	0.07150
2	FIRELITE BG-12LX	PULL STATION	0.00030	0.00060	0.00650	0.01300
1	FIRELITE ANN-80	ANNUNCIATOR	0.00400	0.00400	0.00400	0.00400
2	FIRELITE OSI-RI-FL	BEAM DETECTOR	0.00020	0.00040	0.00220	0.00440
1	FIRELITE ECC 50	MICROPHONE STATION	0.00035	0.00035	0.00650	0.00650
			0.00000	0.00000	0.00000	0.00000
			SYSTEM SUPERVISORY CURRENT	**0.88623**	**SYSTEM ALARM CURRENT**	**1.11630**

MAXIMUM SUPERVISORY CURRENT:	0.88623
STANDBY PERIOD (24 HOURS):	24.00000
REQUIRED SUPERVISORY RESERVE:	21.26952
MAXIMUM ALARM CURRENT:	1.11630
ALARM PERIOD (15 MINUTES):	0.25000
REQUIRED ALARM RESERVE:	0.27908
RESERVE AMP HOURS:	21.54860
25% SPARE CAPACITY:	5.38715
TOTAL REQUIRED AMP HOURS:	**26.93574**
SELECTED BATTERY AMP HOURS:	55.0

FAS BATTERY CALCULATION "RNPS-P1"

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
3	WHEELOCK ELSPSTR	15CD SPEAKER/STROBE	0.00000	0.00000	0.06600	0.19800
0	WHEELOCK ELSPSTR	30CD SPEAKER/STROBE	0.00000	0.00000	0.09400	0.00000
10	WHEELOCK ELSPSTR	75CD SPEAKER/STROBE	0.00000	0.00000	0.15800	1.58000
0	WHEELOCK ELSPSTR	110CD SPEAKER/STROBE	0.00000	0.00000	0.20200	0.00000
1	WHEELOCK PS-10	RNPS	0.12900	0.12900	0.12900	0.12900
			SYSTEM SUPERVISORY CURRENT	**0.12900**	**SYSTEM ALARM CURRENT**	**1.90700**

MAXIMUM SUPERVISORY CURRENT:	0.12900
STANDBY PERIOD (24 HOURS):	24.00000
REQUIRED SUPERVISORY RESERVE:	3.09600
MAXIMUM ALARM CURRENT:	1.90700
ALARM PERIOD (15 MINUTES):	0.25000
REQUIRED ALARM RESERVE:	0.47675
RESERVE AMP HOURS:	3.57275
25% SPARE CAPACITY:	0.89319
TOTAL REQUIRED AMP HOURS:	**4.46594**
SELECTED BATTERY AMP HOURS:	12.0

FAS BATTERY CALCULATION "RNPS-A1"

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
12	WHEELOCK ELSPSTR	15CD SPEAKER/STROBE	0.00000	0.00000	0.06600	0.79200
13	WHEELOCK ELSPSTR	30CD SPEAKER/STROBE	0.00000	0.00000	0.09400	1.22200
2	WHEELOCK ELSPSTR	75CD SPEAKER/STROBE	0.00000	0.00000	0.15800	0.31600
0	WHEELOCK ELSPSTR	110CD SPEAKER/STROBE	0.00000	0.00000	0.20200	0.00000
1	WHEELOCK PS-10	RNPS	0.12900	0.12900	0.12900	0.12900
			SYSTEM SUPERVISORY CURRENT	**0.12900**	**SYSTEM ALARM CURRENT**	**2.45900**

MAXIMUM SUPERVISORY CURRENT:	0.12900
STANDBY PERIOD (24 HOURS):	24.00000
REQUIRED SUPERVISORY RESERVE:	3.09600
MAXIMUM ALARM CURRENT:	2.45900
ALARM PERIOD (15 MINUTES):	0.25000
REQUIRED ALARM RESERVE:	0.61475
RESERVE AMP HOURS:	3.71075
25% SPARE CAPACITY:	0.92769
TOTAL REQUIRED AMP HOURS:	**4.63844**
SELECTED BATTERY AMP HOURS:	12.0

FAS BATTERY CALCULATION "RNPS-A2"

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
36	WHEELOCK ELSPSTR	15CD SPEAKER/STROBE	0.00000	0.00000	0.06600	2.37600
19	WHEELOCK ELSPSTR	30CD SPEAKER/STROBE	0.00000	0.00000	0.09400	1.78600
0	WHEELOCK ELSPSTR	75CD SPEAKER/STROBE	0.00000	0.00000	0.15800	0.00000
4	WHEELOCK ELSPSTR	110CD SPEAKER/STROBE	0.00000	0.00000	0.20200	0.80800
1	WHEELOCK PS-10	RNPS	0.12900	0.12900	0.12900	0.12900
			SYSTEM SUPERVISORY CURRENT	**0.12900**	**SYSTEM ALARM CURRENT**	**5.09900**

MAXIMUM SUPERVISORY CURRENT:	0.12900
STANDBY PERIOD (24 HOURS):	24.00000
REQUIRED SUPERVISORY RESERVE:	3.09600
MAXIMUM ALARM CURRENT:	5.09900
ALARM PERIOD (15 MINUTES):	0.25000
REQUIRED ALARM RESERVE:	1.27475
RESERVE AMP HOURS:	4.37075
25% SPARE CAPACITY:	1.09269
TOTAL REQUIRED AMP HOURS:	**5.46344**
SELECTED BATTERY AMP HOURS:	12.0

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STAMP



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No.	Description	Date
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MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

SCHEDULES

DATE 08/20/25

JOB # 2023025

SHEET # F700

16-04-2026 16:51:49

FAS VOLTAGE DROP (VD) CALCULATION A1N2#

DEVICE NUMBER	1	2	3	5	6	8	9	10	11	12	13	14	15	17
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	65	115	5	175	5	60	35	10	25	15	100	65	10	85
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	75CD	75CD	75CD	75CD	75CD	30CD	15CD	15CD	15CD	30CD	15CD	75CD	75CD	75CD
AMPS AT DEVICE	0.030	0.030	0.030	0.030	0.030	0.030	0.022	0.022	0.022	0.030	0.022	0.030	0.030	0.030
AMPS DEVELOPED	0.388	0.358	0.328	0.298	0.268	0.238	0.208	0.186	0.164	0.142	0.112	0.090	0.060	0.030
VOLTAGE DROP	0.089	0.146	0.006	0.185	0.005	0.051	0.026	0.007	0.015	0.008	0.040	0.021	0.002	0.009

TOTAL CIRCUIT VOLTAGE DROP: 0.607
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.793
% VOLTAGE DROP: **2.974%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION P1N#

DEVICE NUMBER	1	2	4	5	6	7	8	10	11	12	13	14	16
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	20	90	15	50	25	90	85	105	85	125	100	80	85
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	75CD	15CD	15CD	75CD	15CD	75CD	75CD	75CD	75CD	75CD	75CD	75CD	75CD
AMPS AT DEVICE	0.030	0.022	0.030	0.030	0.022	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
AMPS DEVELOPED	0.374	0.344	0.322	0.292	0.262	0.240	0.210	0.180	0.150	0.120	0.090	0.060	0.030
VOLTAGE DROP	0.026	0.110	0.017	0.052	0.023	0.076	0.063	0.067	0.045	0.053	0.032	0.017	0.009

TOTAL CIRCUIT VOLTAGE DROP: 0.591
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.809
% VOLTAGE DROP: **2.896%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION A2N1#

DEVICE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	20	20	15	20	30	10	30	30	15	20	65	100	50	20	45	15	25	20	30
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	15CD	15CD	15CD	15CD	15CD	15CD	15CD	15CD	15CD	15CD	110CD	110CD	15CD	15CD	15CD	15CD	15CD	15CD	15CD
AMPS AT DEVICE	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.086	0.086	0.022	0.022	0.022	0.022	0.022	0.022	0.022
AMPS DEVELOPED	0.436	0.414	0.392	0.370	0.348	0.326	0.304	0.282	0.260	0.238	0.216	0.130	0.044	0.022	0.022	0.022	0.022	0.022	0.022
VOLTAGE DROP	0.031	0.029	0.021	0.026	0.037	0.012	0.032	0.030	0.014	0.017	0.050	0.046	0.008	0.002	0.004	0.001	0.002	0.002	0.002

TOTAL CIRCUIT VOLTAGE DROP: 0.354
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 20.046
% VOLTAGE DROP: **1.734%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION A2N2#

DEVICE NUMBER	1	2	3	4	5	6	7	8	10	12	13	14	15	16	17	18	19	20	21	22
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	95	30	70	45	70	10	30	35	45	40	105	5	60	30	20	15	40	50	25	15
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	15CD	75CD	75CD	75CD	30CD	15CD	30CD	15CD	75CD	75CD	75CD	75CD	75CD	15CD	15CD	15CD	30CD	15CD	15CD	30CD
AMPS AT DEVICE	0.022	0.030	0.030	0.030	0.030	0.022	0.022	0.022	0.030	0.030	0.030	0.030	0.030	0.022	0.022	0.022	0.030	0.022	0.022	0.030
AMPS DEVELOPED	0.380	0.358	0.328	0.298	0.268	0.238	0.216	0.194	0.172	0.142	0.112	0.082	0.052	0.022	0.022	0.022	0.030	0.022	0.022	0.030
VOLTAGE DROP	0.128	0.038	0.081	0.047	0.066	0.008	0.023	0.024	0.027	0.020	0.042	0.001	0.011	0.002	0.002	0.001	0.004	0.004	0.002	0.002

TOTAL CIRCUIT VOLTAGE DROP: 0.520
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.880
% VOLTAGE DROP: **2.551%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION A2N3#

DEVICE NUMBER	1	2	3	4	5	7	8	9	10	12	13	14	15	16	17	18	19	20	22	24
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	50	10	10	20	45	55	35	10	10	45	40	30	25	100	10	40	45	55	60	55
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	15CD	15CD	15CD	30CD	15CD	30CD	15CD	15CD	15CD	30CD	15CD	30CD	15CD	15CD	30CD	15CD	110CD	30CD	30CD	110CD
AMPS AT DEVICE	0.022	0.022	0.022	0.030	0.022	0.030	0.022	0.022	0.022	0.030	0.022	0.030	0.022	0.022	0.030	0.022	0.086	0.030	0.030	0.086
AMPS DEVELOPED	0.340	0.318	0.296	0.274	0.244	0.222	0.192	0.170	0.148	0.126	0.096	0.074	0.044	0.022	0.030	0.022	0.086	0.030	0.030	0.086
VOLTAGE DROP	0.060	0.011	0.010	0.019	0.039	0.043	0.024	0.006	0.005	0.020	0.014	0.008	0.004	0.008	0.001	0.003	0.014	0.006	0.006	0.017

TOTAL CIRCUIT VOLTAGE DROP: 0.272
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 20.128
% VOLTAGE DROP: **1.332%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION A1N1#"

DEVICE NUMBER	1	2	4	5	6	7	8	9	10	12	13	14	15
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	30	30	85	115	30	50	35	25	25	90	85	25	85
HORN	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
STROBE	30CD	75CD	75CD	15CD	15CD	15CD	15CD	15CD	15CD	75CD	15CD	15CD	75CD
AMPS AT DEVICE	0.030	0.030	0.030	0.022	0.022	0.022	0.022	0.022	0.022	0.030	0.022	0.022	0.030
AMPS DEVELOPED	0.326	0.296	0.266	0.236	0.214	0.192	0.170	0.148	0.126	0.104	0.074	0.052	0.030
VOLTAGE DROP	0.035	0.031	0.080	0.096	0.023	0.034	0.021	0.013	0.011	0.033	0.022	0.005	0.009

TOTAL CIRCUIT VOLTAGE DROP: 0.413
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.987
% VOLTAGE DROP: **2.026%**
MAXIMUM ALLOWED % VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

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PROJECT
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CONSULTANT

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tel: 913.961.1658
email: maino@atiumeng.com

STAMP

STATE
DSA FILE NUMBER 35-32
APPL # 01-121819

REVISIONS

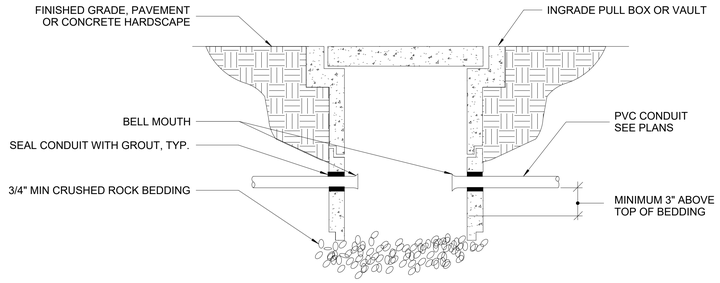
No.	Description	Date

MILESTONES
SD
50% DD
100% DD
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95% CD
DSA SUB 09.05.2025

SHEET
SCHEDULES

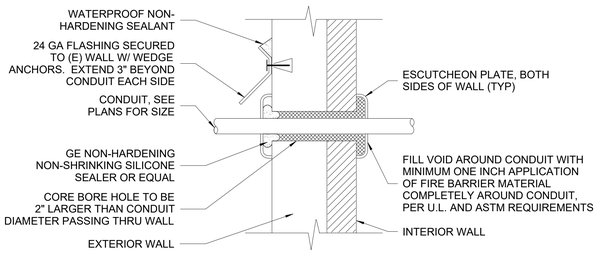
DATE 08/20/25
JOB # 2023025
SHEET # F701

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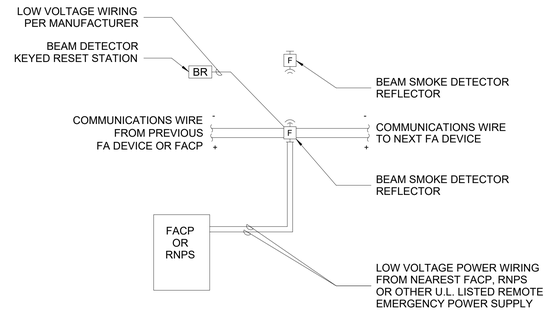
8 INGRADE PULL BOX CONDUIT TERMINATION

NTS



6 CONDUIT THROUGH EXTERIOR WALL

NTS



DETAIL NOTES

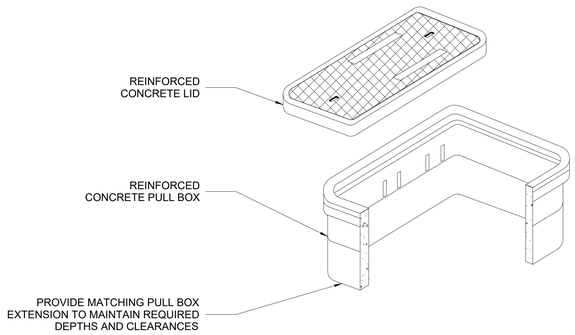
1 REFER TO PLANS FOR EXACT LOCATIONS AND QUANTITIES OF DEVICES

2 IN LOCATIONS WITH SLOPED OR CURVED CEILINGS PROVIDE MULTI-MOUNT KIT FOR DETECTOR AND REFLECTOR.

3 CONFIRM FINAL LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.

3 ADDRESSABLE BEAM DETECTOR INSTALLATION

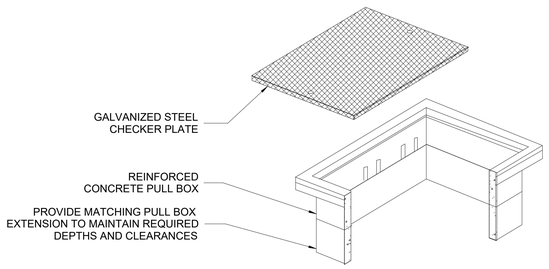
NTS



DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL.
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE). UON.

NON-TRAFFIC RATED



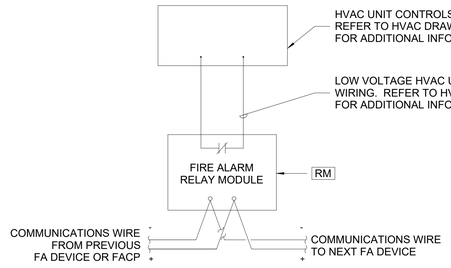
DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. TRAFFIC BOX PER CALTRANS SPECS. CHRISTY TYPE "B" SERIES PULL BOX OR EQUAL.
4. PROVIDE IN ALL AREAS SUBJECT TO VEHICULAR TRAFFIC (ASPHALT AND CONCRETE AREAS), UON. ALL VAULTS IN TRAFFIC LANES SHALL BE HS20-44 RATED. THE COVER SHALL BE MARKED TO INDICATE THE HS20-44 RATING.

TRAFFIC RATED

7 INGRADE PULL BOX

NTS

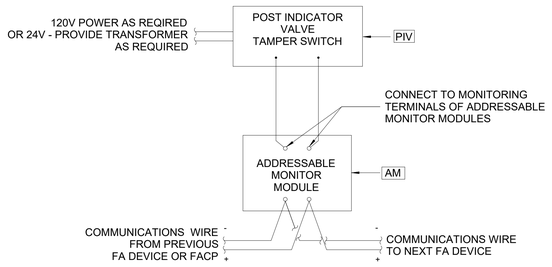


DETAIL NOTES

1. BASED ON RELAY MODULE WITH NORMALLY CLOSED CONTACTS. REFER TO MANUFACTURER'S OR ASSOCIATED DUCT SMOKE DETECTOR'S EXACT REQUIREMENT.
2. UPON ACTIVATION OF FIRE ALARM SYSTEM, CONTACT IN RELAY MODULE SHALL OPEN AND UNIT SHALL SHUT DOWN. REFER TO FIRE ALARM SEQUENCE OF OPERATION AND FLOOR PLANS FOR MORE INFORMATION..

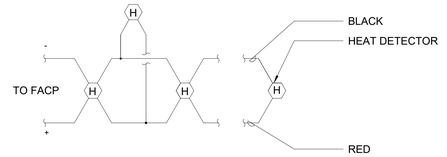
5 HVAC UNIT SHUTDOWN DIAGRAM

NTS

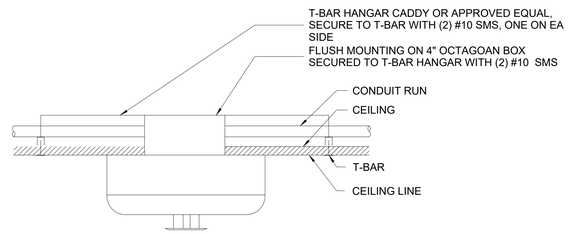


4 PIV TAMPER SWITCH WIRING DIAGRAM

NTS



TYPICAL HEAT DETECTOR WIRING DIAGRAM

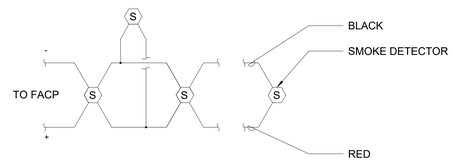


NOTES:

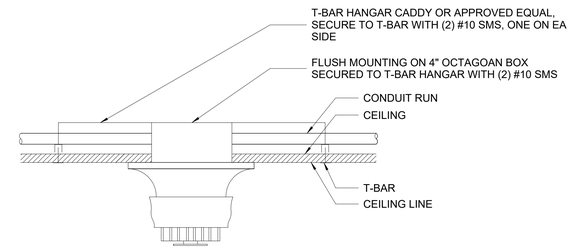
1. MAX DEVICE WEIGHT: 4.8 OZ

2 ADDRESSABLE HEAT DETECTOR INSTALLATION

NTS



TYPICAL SMOKE DETECTOR WIRING DIAGRAM



NOTES:

1. MAX DEVICE WEIGHT: 5.2 OZ

1 ADDRESSABLE SMOKE DETECTOR INSTALLATION

NTS

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PROJECT

BALDWIN ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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tel: 913.961.1658
email: maino@atiumeng.com

STAMP

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	
50% DD	
100% DD	
50% CD	07.18.2025
95% CD	
DSA SUB	09.05.2025

SHEET

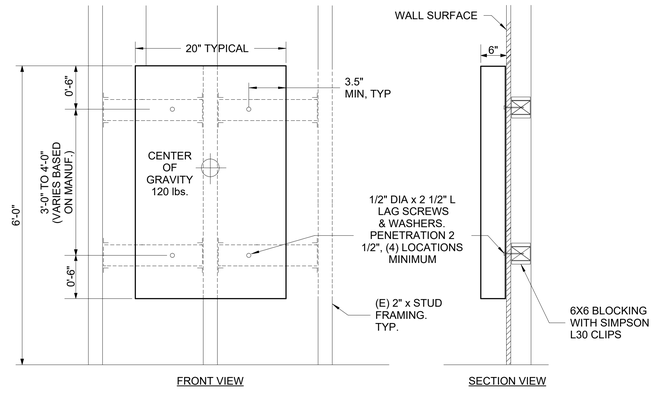
DETAILS

DATE 08/20/25

JOB # 2023025

SHEET # F800

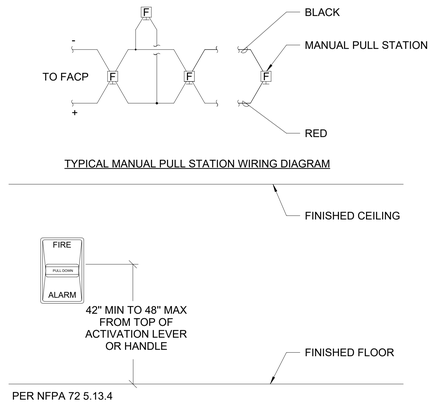
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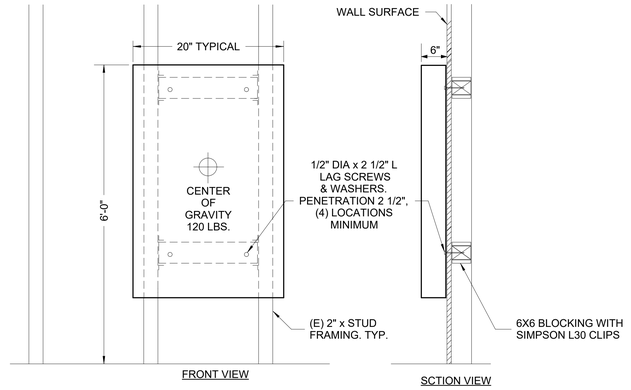
DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

6 PANEL SURFACE MOUNTING DETAIL
NTS



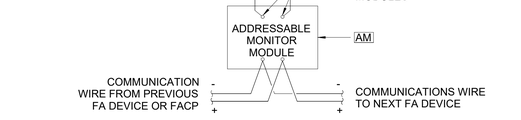
3 ADDRESSABLE MANUAL PULL STATION INSTALLATION
NTS



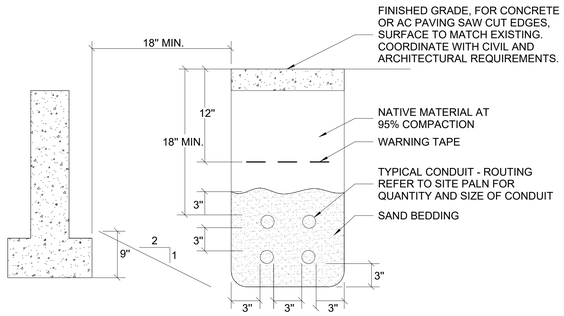
DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

5 WOOD STUD SURFACE PANEL MOUNTING
NTS



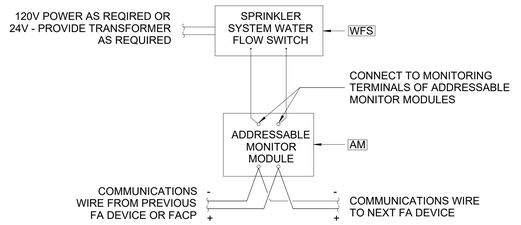
2 VALVE TEMPER SWITCH WIRING DIAGRAM
NTS



DETAIL NOTES:

1. TRENCHES PARALLEL TO FOOTINGS SHALL NOT BE BELOW A PLANE HAVING A DOWNWARD SLOPE OF 1 VERTICAL UNIT TO 2 UNITS HORIZONTAL (50 PERCENT SLOPE) FROM A LINE 9" ABOVE THE BOTTOM EDGE OF THE FOOTING.
2. TRENCHES PARALLEL TO FOOTING SHALL BE A MINIMUM DISTANCE OF 18" FROM THE FACE OF THE FOOTING.

4 CONDUIT IN TRENCH PARALLEL TO FOOTING
NTS



1 WATER FLOW SWITCH WIRING DIAGRAM
NTS

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fax: (408)-300-5121

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STAMP

REGISTERED PROFESSIONAL ENGINEER
DAVID MAINO
No. EE 26308
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	35-32
APPL #	01-121819

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DETAILS

DATE 08/20/25

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