FRANKLIN ELEMENTARY SCHOOL MODERNIZATION

2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

PROJECT DATA

LEGEND

SYMBOLS

GRID LINES

GATE SYMBOL

DOOR SYMBOL
DOOR NUMBER

WINDOW SYMBOL
WINDOW NUMBER
T = TEMPERED WH/OCCURS

REVISION NUMBER

WORK POINT
CONTROL POINT/DATUM POINT
ELEVATION

MATCH LINE
(SHADED PORTION IS THE SIDE SHOWN)

NORTH ARROW

BUILDING SECTION
SHEET NUMBER

WALL SECTION
SHEET NUMBER

DETAIL NUMBER
SHEET NUMBER

ROOM NUMBER/NAME
SHEET REFERENCE OF ROOM

REVISED FINISH GRADE
EXISTING GRADE CALLED (E)

KEYNOTE

SIGNS
SEE SCHEDULE A5.0

KITCHEN EQUIPMENT

ADA CLEARANCE
SEE SCHEDULE

ABBREVIATIONS

@	At	JST	Joist
#	Pounds	JT	Joint
AB	Anchor Bolt		
AC	Asphalt Concrete	KVC	Keen's Veneer Cement
ACC	Accessibility	KD	Knockdown
ART	Above Finish Floor	KPL	Kick-Plate
AP	Access Panel		
A/C	Air Conditioning	LBS	Pounds
ABV	Above	LBT	Log Bolt
ACOUS	Acoustic(al)	LF	Linear Foot
ACPL	Acoustical Plaster	LH	Left Hand
ADD	Addendum	LPT	Low Point
ADDT'L	Additional	LAD'R	Ladder
ADJ	Adjustable/Adjacent	LAM	Laminate(d)
AGG	Aggregate	LAV	Lavatory
AGT	Agent	LBL	Label
ALUM	Aluminum	LVR	Louver
ANC	Anchor(age)	LOC	Location
APPROX	Approximate(ly)	LT	Light
ARCH'/ARCH'L	Architect		
ASB	Asbestos	MB	Machine Bolt, Marker Board
		MC	Medicine Cabinet
BRD	Bulletin Board	MT	Metal Threshold
BEV	Bevel, Curve	MAS	Masonry
BMK	Bench Mark	MAX	Maximum
BOB	Bottom of Beam	MBRN	Membrane
BUR	Built-Up Roofing	MECH'/MECH'L	Mechanic(al)
BD	Board	MED	Medium
BEL	Below	MFG	Manufacturing
BIT	Bituminous	MFR	Manufacturer
BLDG	Building	MIN	Minimum
BLK	Blocking	MIR	Mirror
BRK	Break, Brick	MISC	Miscellaneous
BRKR	Breaker	MLDG	Molding (Moulding)
BM	Beam	MOD	Module
BOT	Bottom	MTD	Mounted
BRG	Bearing	MTL('S)	Material
BRNZ	Bronze	MULL	Mullion
BVL	Bevel(ed)	MWK	Millwork
C&G	Curb and Gutter	N	North
CB	Catch Basin	NIC	Not to Contract
CF	Cubic Foot (Feet)	NTS	Not to Scale
CFS	Counterflashing	NAT	Natural
CPRD	Carpeted	NOM	Nominal
CG	Corner Guard		
CI	Cast Iron	OC	On Center
CIP	Cast Iron Pipe	OCBW	On Center Both Ways
CISC	Cast-In-Place Concrete	OD	Outside Diameter
CISP	Cast Iron Soil Pipe	O/	Over
CJ	Ceiling Joist	OA	Overall
CJT	Control Joint	OBS	Obscure
CK	Caulk(ing)	OFRD	Overflow Drain
CL	Chain Link	OHMS	Overhead Machine Screw
℄	Center Line	OHWS	Overhead Wood Screw
CMT	Ceramic Mosaic Tile	OHD	Overhead
CMU	Concrete Masonry Unit	OPHD	Opposite Hand
CO	Clean-Out	OPAQ	Opaque
CO/G	Clean-Out To Grade	OPNG	Opening
COTW	Clean-Out Thru Wall	OPP	Opposite
CR	Curb Return		
CAB	Cabinet	PA	Planting Area
CEM	Cement	PBD	Particle Board
CER	Ceramic	PL	Property Line
CHAM	Chamfer	PLAM	Plastic Laminate(d)
CHBD	Chalkboard	POC	Point of Connection
CHG	Change	POI	Point of Intersection
CLG	Ceiling	PT DISP	Paper Towel Dispenser
CLR	Clear(ance)	PT RECP	Paper Towel Receptical
CLKG	Caulking	PVC	Polyvinyl Chloride
CNTR	Counter	PART	Partition
COL	Column	PC CONC	Precast Concrete
COMB	Combination	PERF	Perforated
COMPO	Composition	PERIM	Perimeter
CONC	Concrete	PL	Plate
CONST	Construction	PLAS	Plaster
CONT	Continuous	PLCPL	Plaster(and) Cement Plaster
CORR	Corrugated	PNL	Panel
CSK	Countersink	PNT(D)	Paint(ed)
CSMT	Casement	PRE-FAB	Pre-Fabricated
CTR	Center	PLMG	Plumbing
CW	Cold Water	PLYWD	Plywood
DF	Drinking Fountain	R	Riser
DH	Double Hung	RD	Roof Drain
DA	Double Acting	RH	Right Hand
DEP	Depression	RJ	Roof Joist
DET	Detail	RL	Ridge Line
DIA	Diameter	RO	Rough Opening
DIAG	Diagonal	RWD	Redwood
DIM	Dimension	ROW	Right Of Way
DN	Dimension	REF	Reference
DPTR	Depress(ed)	REINF	Reinforce(ment)
DR	Door	REM	Removal
DS	Downspout	REQ	Required
DSPR	Dispenser	RES	Resilient
DWG	Drawing	RET	Return
DW	Dishwasher	REV	Revision
(D) CW	(Domestic) Cold Water	RFG	Roofing
(D) HW	(Domestic) Hot Water	RFL	Reflect(ed/ive,or)
		RM	Room
(E)	Existing	RTSB	Rubber Top Set Base
E	East	RWD	Redwood
EDF	Electric Drinking Fountain	RWL	Rainwater Leader
EJ	Edge Joint		
EJ	Expansion Joint	S&P	Shelf And Pole
EPB	Electric Panel Board	S	South
EW	Each Way	SC	Solid Core
EA	Each	SD	Storm Drain
ELEC'L	Electric(al)	SKDISP	Sanitary Napkin Dispenser
ELEV'R	Elevator	SCH	Schedule(d)
EMER	Emergency	SHR	Shower
EMGR	Emergency	SHLF	Shelf
ENAM	Enamel	SHLVG	Shelving
ENCL	Enclosure	SHT	Sheet
EQ	Equal	SHTG	Sheathing
EQUIP	Equipment	SIM	Similar
EXH	Exhaust	SKYLT	Skylight
EXP	Expansion/Exposed	SMMC	Sheet Metal Manhole Cover
EXTR	Exterior	SPC(S)	Space(s)
		SPEC	Specification(s)
FRO	Furnished By Others	SQ	Square
FBLKG	Fire-Blocking	SS	Stainless Steel
FD	Floor Drain	STD	Standard
FEC	Fire Extinguisher Cabinet	STL	Steel
FG	Fixed Glass/Finish Grade	STOR	Storage
FGRD	Finish Grade	STRUC	Structure
FH	Fire Hydrant	STRUCT'L	Structural
FJ	Flush Joint	SYS	System
FOC	Face Of Concrete/Column	T&B	Top & Bottom
FOF	Face Of Finish	T&G	Tongue & Groove
FOM	Face Of Masonry	TB	Towel Bar
FOS	Face Of Stud	TB	Towel Bar
FOW	Face Of Wall	THRU	Through
FAE	Factory Applied	TJ	Tool Joint
FAS	Fastener(ed)	TS	Tube Steel
FBD	Fiberboard	TOB	Top Of Beam
FBGL	Fiberglass	TOC	Top Of Curb (Conc)
FH	Fire Hydrant	TOF	Top Of Footing
FHC	Fire Hose Cabinet	TOP	Top Of Plate/Top of Parapet
FHMS	Flathead Machine Screw	TOS	Top Of Sheathing
FHWS	Flathead Wood Screw	TOW	Top Of Wall
FHSS	Flathead Stainless steel	TP DISP	Toilet Paper Dispenser
FIN	Finish(ed,es)	T PART	Toilet Partition
FLEX	Flex(ible)	TSC DISP	Toilet Seat Cover Dispenser
FLR	Floor	TEL	Telephone
FLUOR	Fluorescent	TEMP	Tempered
FOUND	Foundation	THD	Thread(ed,s)
FRMG	Framing	THK	Thick(ness)
FRT	Fire-Retardant	TKBD	Tackboard
FS	Fixed Shelf	TSB	Topset Base
FTG	Footing	TYP	Typical
FURR	Furring(ed)	TW	Tread Width
FUT	Future		
FV	Field Verify	UNO	Unless Noted Otherwise
GB	Grab Bar	VIF	Verify in Field
GI	Galvanized Iron	VCI	Vertical Grain
GA	Gauge	VD	Vent Over (Offset)
GALV	Galvanize	VP	Vent Pipe
GL	Glass	VTR	Vent Thru Roof
GLZG	Glazing	VAR	Varnish
GRAV	Gravel	VCT	Vinyl Composition Tile
GRD	Grade	VCTWB	Vinyl Composition Tackable Wallboard
GSKT	Gasket	VEN	Veneer
GYPBD	Gypsum Board	VERT	Vertical
GYPLA	Gypsum Lath	VPB	Vapor Barrier
HB	Hose Bibb	W	West
HC	Hollow Core	WGL	Wire Glass
HCM	Hazardous Containing Material	WHCAB	Wall Hung Cabinet
HJT	Head Joint	WI	Wrought Iron
HM	Hollow Metal	WM	Wire Mesh
HVAC	Heating, Ventilating & Air-Conditioning	WOW	Wall To Wall
		WWM	Welded Wire Mesh
HBD	Hardboard	W/	With
HDR	Headers	W/O	Without
HDWD	Hardwood	WIND	Window
HDWR	Hardware	WP	Waterproof(ing)
HEX	Hexagonal	WSCT	Wainscot
HORIZ	Horizontal	WST	Waste
HT	Height	WT	Weight
HTG	Heating	WD	Wood
HW	Hot Water		
ID	Inside Diameter	X-FMR	Transformer
INCL	Include(ing)		
INSTR	Instruction(tor)		
INSUL	Insulation(tion)		
INTM	Intermediate		
INV	Inverter		
INV	Invert		

GENERAL NOTES

NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS, RESTRICTIONS, ETC. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.

THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

MISPLACEMENT, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS. THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT BEFORE COMMENCING WORK IN THAT AREA.

ALL WORK SHALL BE IN CONFORMANCE WITH THE CURRENTLY ADOPTED EDITION OF THE:

PART 1	2022CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUME 1 AND 2 WITH CALIFORNIA AMENDMENTS)
PART 3	2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4	2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND CALIFORNIA AMENDMENTS)
PART 6	2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7	CURRENTLY VACANT
PART 8	2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R
PART 9	2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2019 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS) WITH 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24, PART 8 & 2019 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24, PART 12
PART 11	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.
PART 12	2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2018 EDITION
NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS	2019 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS REFERENCE CODE SECTION FOR NFPA STANDARDS-CBC (SFM) 3504.1	2018 EDITION

IF CONFLICTS BETWEEN VARIOUS ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL) OF THE WORK OF THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

THESE PROPOSED PLANS WERE BASED ON PLANS BY OTHERS, FURNISHED BY THE OWNER, INDICATING WORK OF PREVIOUS CONTRACTS PER A#14751. THE EXISTING PLANS PER A#14751 WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S REVIEW UPON REQUEST. THE OWNER, THE ARCHITECT AND THE ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR THE EXISTING CONDITIONS AND MEASUREMENTS INDICATED ON THESE PREPOSED PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MEASUREMENTS AND CONDITIONS NECESSARY TO PROVIDE COMPLETE WORK AS INDICATED BY THE INTENT OF THESE PLANS PRIOR TO PROCEEDING WITH WORK OF THIS CONTRACT.

EXISTING DIMENSIONS INDICATED ON THESE PROPOSED DRAWINGS HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE WHAT MEANS NECESSARY TO VERIFY THE DIMENSIONS IN THE AREAS OF DESIGNATED WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA OF QUESTION.

ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

A "CLASS 2" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LEGAL ORDINANCES.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND ENGINEER WITH THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT.

SCOPE OF WORK

BASE BID:
ALL LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED FOR THE DEMOLITION OF THE WORK INDICATED INCLUDING HAZARDOUS MATERIAL REMOVAL AND CONSTRUCTION OF SITE WORK FOR ADA PATH OF TRAVEL AND BUILDING WORK TO INCLUDE BUT NOT NECESSARILY LIMITED TO, PATCHING OF (E) ROOF MATERIAL INSULATION, DOORS/FRAMES AND HARDWARE, NON-BEARING WALLS, FINISHES, CEILINGS, ELECTRICAL LIGHTING, FIRE ALARM, PLUMBING AND HVAC AS INDICATED BY PLANS AND/OR SPECIFICATIONS CONTAINED HEREIN.

FOR DSA, WORK FOR EACH BUILDING SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO:

- BLDG A: FIRE ALARM.
- BLDG C: CEILINGS, LIGHTING, RESTROOMS, FIRE ALARM AND HVAC.
- BLDG D: FRAMING, CEILINGS, LIGHTING, RESTROOMS, FIRE ALARM AND HVAC.
- BLDG E: CEILINGS, LIGHTING, FIRE ALARM AND HVAC.
- BLDG F: CEILINGS, LIGHTING, FIRE ALARM AND HVAC.
- BLDG G: CEILINGS, LIGHTING, FIRE ALARM AND HVAC.
- BLDG I: CEILINGS, LIGHTING, RESTROOMS, FIRE ALARM AND HVAC.
- BLDG T: CEILINGS, LIGHTING, FIRE ALARM AND HVAC.

HAZARDOUS MATERIAL REMOVAL NOTES

1. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY BOTH THE OWNER AND THE ARCHITECT IF ASBESTOS OR OTHER HAZARDOUS CONTAINING MATERIALS ARE UNCOVERED IN ANY LOCATION OTHER THAN INDICATED IN THESE PLANS OR SPECIFICATIONS WHERE WORK OF THIS CONTRACT IS SCHEDULED.
2. COST OF HAZARDOUS MATERIAL REMOVAL/ASBESTOS ABATEMENT SHALL BE BORE BY THE GENERAL CONTRACTOR, AS PART OF THIS CONTRACT. ASBESTOS AND HAZARDOUS MATERIAL TESTING WORK AND SERVICES BY THE CERTIFIED ASBESTOS CONSULTANT ARE NOT A PART OF THIS CONTRACT. THE OWNER WILL EMPLOY THE CERTIFIED ASBESTOS ABATEMENT CONSULTANT AND PAY ALL COST OF TESTING.
3. THE COST OF AND SUBSEQUENT REMOVAL OF OTHER BUILDING MATERIALS CONTAINING HAZARDOUS MATERIALS SHALL BE A PART OF THIS CONTRACT. CONTRACTOR SHALL BE REQUIRED TO CONTRACT THE REMOVAL OF ANY AND ALL HAZARDOUS MATERIALS PER REQUIREMENTS AND REGULATIONS PER O.S.H.A., A.H.E.R.A. AND N.E.S.H.A.P. AND ANY OR ALL OTHER APPLICABLE FEDERAL AND STATE REGULATIONS.
4. IT SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND THE OWNER THAT THE ARCHITECT IS NOT RESPONSIBLE IN ANY WAY WHATSOEVER FOR THE DETECTION OF THE PRESENCE OF ANY HAZARDOUS MATERIALS OR THE ABATEMENT OR REMOVAL THERE OF.
5. AFTER THE CERTIFIED ASBESTOS CONSULTANT HAS CERTIFIED THE ENVIRONMENT IS FREE OF ASBESTOS FIBERS (AIR SAMPLES AND THE LABORATORY TESTS), THE GENERAL CONTRACTOR SHALL COMPLETE THE WORK OF THIS CONTRACT.
6. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO KEEP THE OWNER AND THE ARCHITECT INFORMED AS OF WHEN THE ASBESTOS ABATEMENT AND HAZARDOUS MATERIALS CONTRACTOR WILL BE REQUIRED TO COMMENCE THEIR WORK.
7. IT SHALL BE UNDERSTOOD THAT THE OWNER, THE ARCHITECT AND THE ENGINEER MAKE NO IMPLIED OR EXPRESSED WARRANTY OR GUARANTEE THAT THE LIST OF PRODUCTS/ FINISHES CONTAINING HAZARDOUS BUILDING MATERIALS IS COMPREHENSIVE.
8. SEE SPECIFICATION SECTION 02 62 00 HAZARDOUS MATERIALS ABATEMENT AND REMOVAL FOR A LIST OF IDENTIFIED MATERIALS REQUIRING ABATEMENT.

SITE DATA

SEISMIC DESIGN LOADS:

SEISMIC IMPORTANCE FACTOR I_E	1.25
RISK CATEGORY	II
S_s	0.925g
S_1	0.335g
SEISMIC SITE CLASS	D
S_{DS}	0.74g
S_{D1}	NULL
SEISMIC DESIGN CATEGORY	D
ULTIMATE DESIGN WIND SPEED	94
WIND EXPOSURE	C
TOPOGRAPHIC FACTOR	1.0
CLIMATE ZONE	13
FLOOD HAZARD	DESIGNATION: ZONE X, (FIRM) PANEL 2282, SEPTEMBER 26, 2008

SHEET INDEX

(77) SHEETS TOTAL

TITLE
T0.0 TITLE SHEET, SHEET INDEX & VICINITY MAP

CIVIL
C1 GRADING PLAN

ARCHITECTURAL
A1.0 OVERALL SITE PLAN & PARTIAL DEMO SITE PLAN
A1.1 PARTIAL SITE PLAN
A2.1 FLOOR PLAN BUILDING 'C'
A2.2 FLOOR PLAN BUILDING 'D'
A2.3 DEMO FLOOR PLAN BUILDING 'E'
A2.4 FLOOR PLAN BUILDING 'E'
A2.5 FLOOR PLAN BUILDING 'F'
A2.6 FLOOR PLAN BUILDING 'G'
A2.7 FLOOR PLAN BUILDING 'H'
A2.8 FLOOR PLAN BUILDING 'I'
A4.0 REFLECTED CEILING PLAN & JOIST PLAN BUILDING 'C' & 'D'
A4.1 REFLECTED CEILING PLAN BUILDING 'E'
A4.2 REFLECTED CEILING PLAN BUILDING 'F' & 'G'
A4.3 REFLECTED CEILING PLAN BUILDING 'H' & 'I'
A5.0 DOOR SCHEDULE, ROOM FINISH SCHEDULE & DETAILS
A6.0 ROOF PLAN
A8.0 SECTION
A9.0 INTERIOR ELEVATIONS
A9.1 INTERIOR ELEVATIONS
A10.0 DETAILS
A10.1 DETAILS
A10.2 DETAILS

STRUCTURAL
S0.1 GENERAL NOTES
S1.1 TYPICAL DETAILS
S2.0 ROOF FRAMING PLANS
S2.1 ROOF FRAMING PLANS

MECHANICAL
M1.0 MECHANICAL SITE PLAN, NOTES, SCHEDULES
M1.1 MECHANICAL DETAILS
M1.2 MECHANICAL DETAILS
M2.0 MECHANICAL PLAN BUILDING 'C'
M2.1 MECHANICAL PLAN BUILDING 'D'
M2.2 MECHANICAL PLAN BUILDING 'E'
M2.3 MECHANICAL PLAN BUILDING 'F'
M2.4 MECHANICAL PLAN BUILDING 'G'
M2.5 MECHANICAL PLAN BUILDING 'H'
M2.6 MECHANICAL PLAN BUILDING 'I'
M6.0 MECHANICAL ROOF PLAN
M7.0 BUILDING 'C' TITLE-24
M7.1 BUILDING 'D' TITLE-24
M7.2 BUILDING 'E' TITLE-24
M7.3 BUILDING 'E' TITLE-24
M7.4 BUILDING 'F' TITLE-24
M7.5 BUILDING 'F' TITLE-24
M7.6 BUILDING 'G' TITLE-24
M7.7 BUILDING 'G' TITLE-24
M7.8 BUILDING 'H' TITLE-24
M7.9 BUILDING 'H' TITLE-24
M7.10 BUILDING 'I' TITLE-24
M7.11 BUILDING 'I' TITLE-24

PLUMBING
P1.0 PLUMBING SITE PLAN
P2.1 PLUMBING PLAN & DEMO PLAN BUILDING 'C'
P2.2 PLUMBING PLAN AND DEMO PLAN 'BUILDING 'D'
P2.3 PLUMBING PLAN BUILDING 'E'
P2.4 PLUMBING PLAN BUILDING 'F' & 'G'
P2.5 PLUMBING PLAN BUILDING 'H' & 'I'

ELECTRICAL
E1.00 ELECT. SITE PLAN, SYMBOL LEGEND, DETAILS AND NOTES
E1.10 ELECTRICAL SINGLE LINE DIAGRAM
E2.10 BLDGS C, D, E LIGHTING FLOOR PLANS AND NOTES
E2.20 BLDGS F, G, H & I LIGHTING FLOOR PLANS, DETAILS AND NOTES
E2.30 DAYLIT LIGHTING PLANS, NOTES AND SCHEDULES
E3.10 BLDGS C, D, E POWER FLOOR PLANS AND NOTES
E3.20 BLDGS F, G, H & I POWER FLOOR PLANS AND NOTES
E4.00 F.A. SITE PLAN, SYMBOL LEGEND, DETAILS, NOTES AND SCHEDULES
E4.10 BLDGS A, C, D, E FIRE ALARM FLOOR PLANS
E4.20 BLDGS F, G, H & I FIRE ALARM FLOOR PLANS
E4.30 FIRE ALARM SINGLE LINE DIAGRAM
E5.00 PANEL SCHEDULES, FIXTURE SCHEDULE & VOLTAGE DROP CALCULATIONS
E6.00 NRCC REPORT
E7.01 TITLE 24 REPORT BUILDING 'C'
E7.02 TITLE 24 REPORT BUILDING 'D'
E7.03 TITLE 24 REPORT BUILDING 'E'
E7.04 TITLE 24 REPORT BUILDING 'F'
E7.05 TITLE 24 REPORT BUILDING 'G'
E7.06 TITLE 24 REPORT BUILDING 'H'
E7.07 TITLE 24 REPORT BUILDING 'I'

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

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

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

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

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

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

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

DESIGN TEAM

OWNER

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA. 93305
(661) 631-4600
FAX (661) 326-1485

ARCHITECT

SCArchitect INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA. 93309
(661) 397-4377
FAX (661) 397-4378

CONSULTING ENGINEERS

CIVIL
SWANSON ENGINEERING
2000 OAK ST., SUITE 150
BAKERSFIELD, CA. 93301
(661) 831-4919
FAX (661) 831-4929

STRUCTURAL
JOHN A. MARTIN & ASSOCIATES
950 SOUTH GRAND AVE.
LOS ANGELES, CA. 90015
(213) 483-6490
FAX (213) 744-1515

MECHANICAL/ PLUMBING
BASKIN MECHANICAL ENGINEERS INC.
5500 MING AVE., SUITE 251
BAKERSFIELD, CA. 93309
(661) 397-2114
FAX (661) 397-2116

ELECTRICAL
DPG ENGINEERING, INC.
6702 N. CEDAR AVE., SUITE 205
FRESNO, CA. 93710
(559) 276-5144
FAX (559) 900-4929

VICINITY MAP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SCArchitect inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

REGISTERED ARCHITECT STEPHEN J. CORBIN No. C016788 EXP. 8/31/2025 OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, L

BENCHMARK

THE VERTICAL BENCHMARK FOR THIS SURVEY IS TAKEN FROM THE TOP OF A BRASS CAP SET IN CONCRETE MONUMENT STAMPED 'Y 67 1827' (PID – FJ1743) PER PUBLIC NGS DATA SHEET.

ELEVATION = 401.11' (USGS DATUM)

LOCAL BENCHMARK

FOUND CONCRETE MONUMENT WITH BRASS PIN, LOCATED AT THE CENTERLINE INTERSECTION OF PINE STREET AND 18TH STREET.

ELEVATION = 398.38'

BASIS OF BEARINGS

THE BEARING OF S89°59'53.3"E ALONG THE CENTERLINE OF TRUXTUN AVENUE AS SHOWN ON RECORD OF SURVEY FILED IN BOOK 19 OF RECORD OF SURVEY MAPS, PAGE 19 IN THE OFFICE OF THE KERN COUNTY RECORDER WAS TAKEN AS THE BASIS OF BEARINGS SHOWN HEREON.

LEGAL DESCRIPTION

BEING ALL THOSE PORTIONS OF LOTS 1 THROUGH 20 IN BLOCK 421A, LOTS 1, 20 AND PORTIONS OF LOTS 2 AND 19 IN BLOCK 421C AND LOTS 1 THROUGH 20 IN BLOCK 421D OF BAK_NORTHERN_DIV_03 TRACT, IN ADDITION TO THE VACATED PORTION OF CEDAR STREET BETWEEN TRUXTUN AVENUE AND 18TH STREET AND 17TH STREET BETWEEN PINE STREET AND 'A' STREET, IN THE CITY OF BAKERSFIELD

ADDRESS

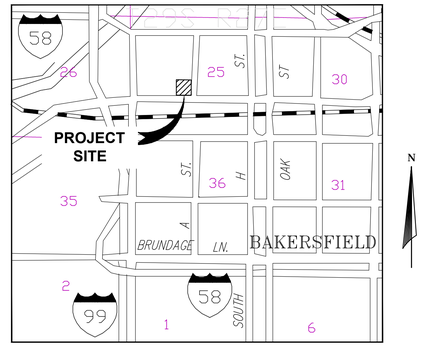
2400 TRUXTUN AVENUE, BAKERSFIELD, CA 93301

APN

004-250-04

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.



VICINITY MAP
N.T.S.

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
Pg.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK

- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- FOUND MONUMENT
- EXISTING TRAFFIC SIGN
- SD — EXISTING STORM DRAIN LINE
- FO — EXISTING FIBER OPTIC LINE
- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE
- G — EXISTING GAS LINE
- X — EXISTING FENCELINE
- UGE — EXISTING ELECTRIC LINE
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING CURB & GUTTER
- 100.00 — EXISTING GROUND CONTOUR LINE & ELEVATION

CONSTRUCTION NOTES

1. ALL GRADING SHALL CONFORM TO THE CITY OF BAKERSFIELD ORDINANCES AND STANDARDS PERTAINING THERETO (CALIFORNIA BUILDING CODE, 2019) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CITY OF BAKERSFIELD ORDINANCES.

2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.

3. THE CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (USA – 811)

4. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY 2018 (UNLESS OTHERWISE SPECIFIED), INSOFAR AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HEREON. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREON, THE NOTES HEREON SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:

A) ALL CONCRETE SHALL BE CLASS "S" USING TYPE II CEMENT AS IN ACCORDANCE WITH SECTION 90 AND SHALL HAVE AT LEAST 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.

B) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1/2" MAXIMUM, MEDIUM GRADED, AND INTIMATELY MIXED WITH 3–6.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006). NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64–10.

5. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.

6. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.

7. CLEARING AND GRUBBING – REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, BROKEN CONCRETE, VEGETATION, OTHER BIODEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER, OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.

8. AREAS TO RECEIVE FILL SHALL BE SCARIFIED SIX INCHES, OR AS RECOMMENDED IN THE SOIL REPORT, WHICHEVER IS GREATER, UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED. MOISTEN AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DENSITY PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.

9. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS (LESS THAN EIGHT INCHES UNCOMPACTED THICKNESS), BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

10. THE ENGINEER MAKES NO WARRANTY OF THE ANTICIPATED SHRINKAGE FACTOR. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF–SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF–SITE LOCATION, AS NEEDED.

11. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE–INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

12. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.

13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.

N

SCALE: 1" = 20'

20 10 0 20 40

IDENTIFICATION STAMP
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APP: 03-122910 INC:
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DATE: 12/14/2023

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FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16782
RENEWAL 08/31/2025
STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

GRADING PLAN

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER
GILBERT T. SWANSON
No. 43032
EXP. 3-31-24
STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
2000 OAK STREET SUITE 150 ~ BAKERSFIELD, CA 93301
p:(661) 831-4919; f:(661) 873-4777

©2020

JOB# 19-020 BY

JOB NO.
DRAWN :
CHECKED :
DATE : 11-8-2022

C

1 OF SHEETS

SITE PLAN GENERAL NOTES

1. SEE ELECTRICAL AND CIVIL SITE PLANS FOR ADDITIONAL SITE RELATED WORK. CONTRACTOR SHALL COORDINATE ALL WORK AS REQ'D TO ENSURE A COMPLETE & FINISHED PROJECT.
2. CONTRACTOR TO TAKE ALL NECESSARY AND REQUIRED MEASURES TO PROTECT (E) IRRIGATION & TURF AREAS WITHIN THE JOB SITE, AND SHALL BE RESPONSIBLE TO REPLACE ANY OR ALL BROKEN IRRIGATION SYSTEMS. RESEED TURF AS REQUIRED.
3. CONTRACTOR TO P/V ALL (E) UTILITY BOXES, (E) VALVES, ETC. IN AREA OF SCHEDULED WORK. DEMO, REMOVE, RELOCATE AND/ OR MODIFY AS NECESSARY TO COMPLETE THE WORK INDICATED. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS.
4. CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF PERFORMING THE WORK REQUIRED.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.
6. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER OBJECTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT REGULATIONS.
8. SCARCHITECT SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SCARCHITECT.
9. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.
10. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
11. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557 AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.
12. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.

PATH OF TRAVEL

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL. POT IS A MINIMUM OF 48" WIDE, THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PASSING SPACES (11B-405.5.3) AT LEAST 60"X60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF POT WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400' MAXIMUM (11B-403.7.) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS AND OBJECTS PROTRUDING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT SHALL VERIFY THAT NO BARRIERS EXIST IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: 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 THIS 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 THRESHOLD 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 CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PARKING ANALYSIS

(E) PARKING LOT
PER DSA A# 51546

REGULAR STALLS	22
ACCESSIBLE STALLS	0
ACCESSIBLE VAN STALL	+1
TOTAL	23

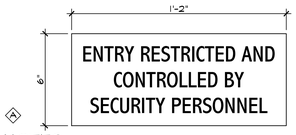
CAMPUS DIRECTORY

BLDG #	BUILDING DESCRIPTION	DSA A#	CERTIFICATION STATUS/ DATE
(E) BLDG 'A'	CAFETERIA	#4296, #51546, #11380	--- YES/ 4-14-2016 ---
(E) BLDG 'B'	ADMINISTRATION / CLASSROOMS	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'C'	KINDERGARTEN	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'D'	KINDERGARTEN	#51546, #11380	YES/ 4-14-2016 ---
(E) BLDG 'E'	CLASSROOMS	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'F'	PRE-K	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'G'	HEAD START	#51546, #11380	YES/ 4-14-2016 ---
(E) BLDG 'H'	CLASSROOMS	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'I'	CLASSROOMS	#4296, #51546	--- YES/ 4-14-2016
(E) BLDG 'J'	CLASSROOM	#51546, #11380	YES/ 4-14-2016 ---
(E) BLDG 'K'	CLASSROOMS	#51546, #11380	YES/ 4-14-2016 ---
(E) 'R1'	CLASSROOM	#17766	---
(E) 'R2'	CLASSROOM	#52900, #03-117026	--- YES/ 1-8-2019
(E) 'R3'	CLASSROOM	#52900, #03-117026	--- YES/ 1-8-2019
(E) 'R4'	COMPUTER LAB	#03-117026	YES/ 1-8-2019
(E) 'R5'	LIBRARY	#03-117026	YES/ 1-8-2019
(E) 'R6'	SPECIAL ED	#03-117026	YES/ 1-8-2019
(E) 'R7'	PTC	#03-117026	YES/ 1-8-2019
(E) 'R8'	SPECIAL ED	#03-117350	YES/ 9-24-2018
(E) 'R9'	PRE-K	#61154	YES/ 9-24-2018

GATE SCHEDULE

GATE #	GATE SIZE (EACH LEAF)	GATE MATL	FRAME MATL	SIGN TYPE ◇	DETAIL	GATE #
1	(E) 7'-0"x8'-0"	STEEL	STEEL	A	-	1
2	(E) 5'-0"x6'-0" (PAIR)	CL	CL	A	-	2
3	(E) 4'-0"x8'-0" (PAIR)	STEEL	STEEL	-	-	3
4	(E) 5'-0"x6'-0" (PAIR)	CL	CL	A	-	4
5	(E) 4'-0"x5'-0"	CL	CL	A	-	5

(E) GATES #1, #2, #3 #4 AND #5 ARE NOT ACCESSIBLE AND ARE ONLY OPERATED BY SECURITY PERSONNEL PER 11B-404.1 EXCEPTION #1.



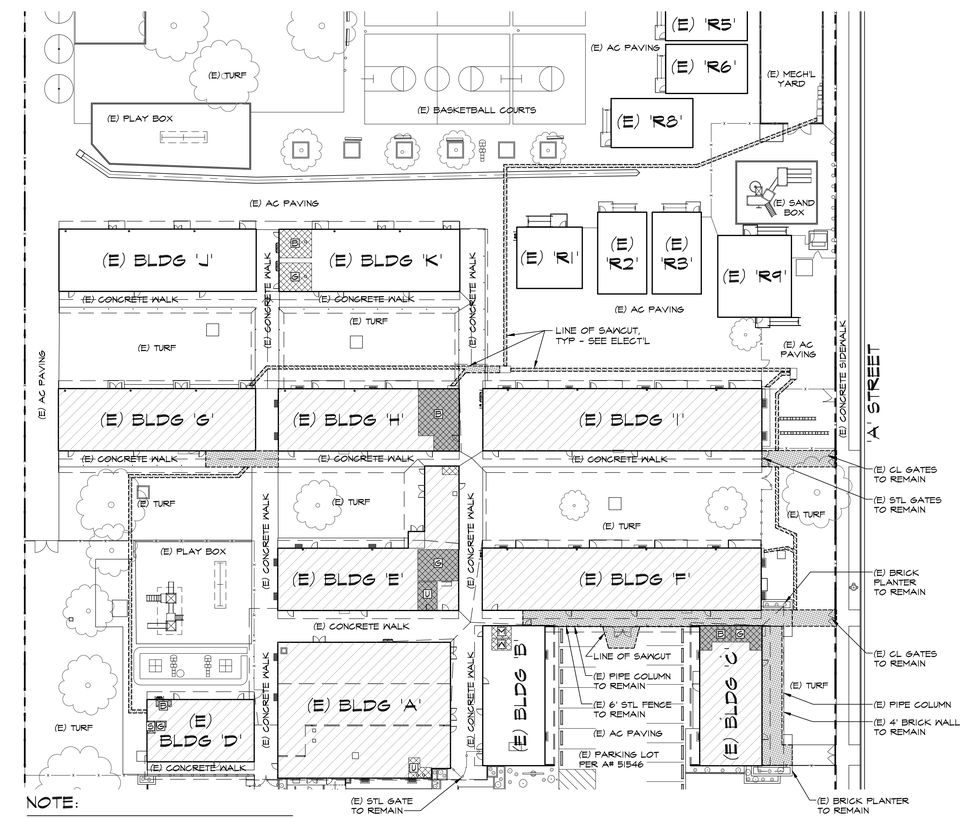
NOTES:
1. MOUNT ON APPROACH SIDE AND SHALL COMPLY WITH 2019 CBC SECTION 11B-703.5
2. IF SIGN IS TO BE MOUNTED ON FENCE, PLACE AT +36" ABOVE WALK TO BOT OF SIGN
3. THE STATEMENT ABOVE SHALL READ IN 1" HIGH LETTERS AS SHOWN WITH CONTRASTING COLORS. COLORS SHALL BE SELECTED BY ARCHITECT.
4. SEE PLANS FOR EXACT LOCATIONS.

BUILDING CODE ANALYSIS

BUILDING DESIGNATION	BLDG OCC. TYPE	TYPE OF CONST	BASIC ALLOWABLE AREA	ACTUAL HT STRY/FT	ALLOWABLE STORIES/ HT ABV GRADE	ACTUAL AREA TOTAL	TOTAL SQUARE FOOTAGE
(E) BLDG 'A'	A-2/ E	V-B	15,500	1 STRY/+25'-0"	2 STRY/40'-0"	5,569 SF	5,569 < 15,500 ∴ OK
(E) BLDG 'B'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,090 SF	2,090 < 9,500 ∴ OK
(E) BLDG 'C'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,090 SF	2,090 < 9,500 ∴ OK
(E) BLDG 'D'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	1,548 SF	1,548 < 9,500 ∴ OK
(E) BLDG 'E'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	3,436 SF	3,436 < 9,500 ∴ OK
(E) BLDG 'F'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	4,156 SF	4,156 < 9,500 ∴ OK
(E) BLDG 'G'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,938 SF	2,938 < 9,500 ∴ OK
(E) BLDG 'H'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,694 SF	2,694 < 9,500 ∴ OK
(E) BLDG 'I'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	4,156 SF	4,156 < 9,500 ∴ OK
(E) BLDG 'J'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,938 SF	2,938 < 9,500 ∴ OK
(E) BLDG 'K'	E	V-B	9,500	1 STRY/16'-6"	1 STRY/40'-0"	2,694 SF	2,694 < 9,500 ∴ OK

LEGEND:

- NO WORK SCHEDULE FOR THIS BUILDING
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- CONCRETE WALK *BATCH INSPECTION IS EXEMPT PER DSA IOS (17 / A10.1)
- (E) ACCESSIBLE RESTROOM
- ACCESSIBLE RESTROOM PER THIS APPLICATION
- PATCH & MATCH AC PAVING
- PATCH & MATCH TURF AS REQ'D
- DEMO CONC WALK/ AC PAVING AS REQ'D (24 / A10.1)
- EXCAVATE TURF AS REQ'D
- PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAIN LINK FENCE
- (E) STL FENCE
- FIRE DEPARTMENT ACCESS
- TO BE DEMOLISHED

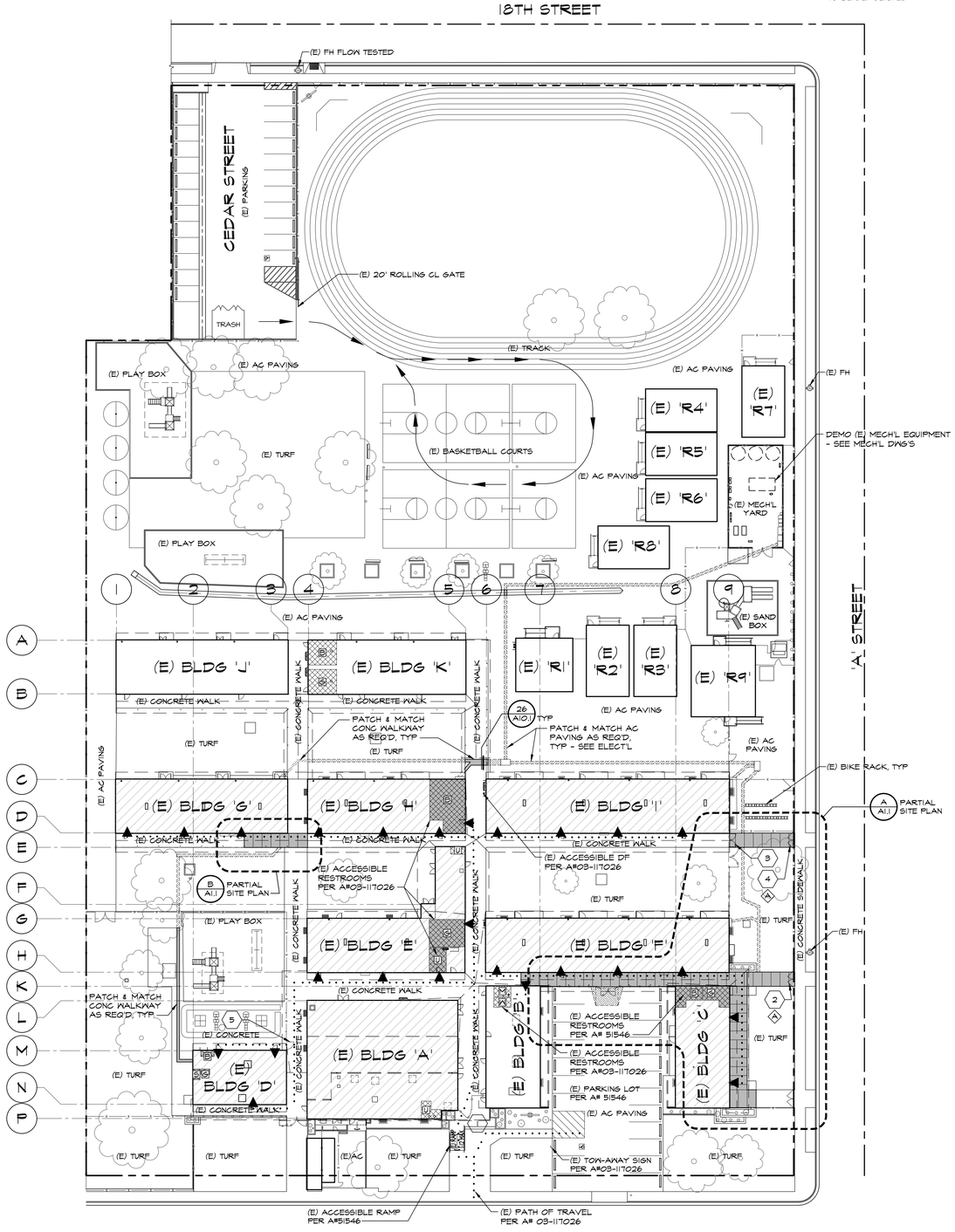


NOTE:
NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

PLAN NORTH

PARTIAL DEMO SITE PLAN

SCALE: 1" = 30'-0"



PLAN NORTH

OVERALL SITE PLAN

SCALE: 1" = 30'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN T. CORBIN C-16376 EXP. 08-31-2024 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

OVERALL SITE PLAN & PARTIAL DEMO SITE PLAN

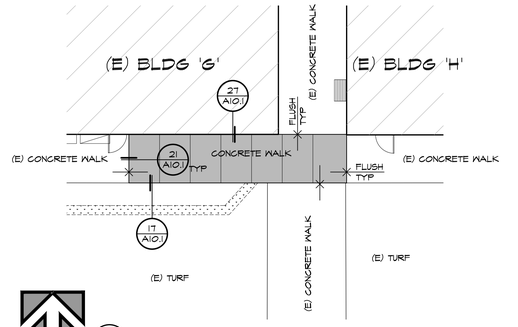
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN: ED, FS
CHECKED: BCW
DATE: 11/8/23

1.0
3 OF 80 SHEETS

LEGEND:

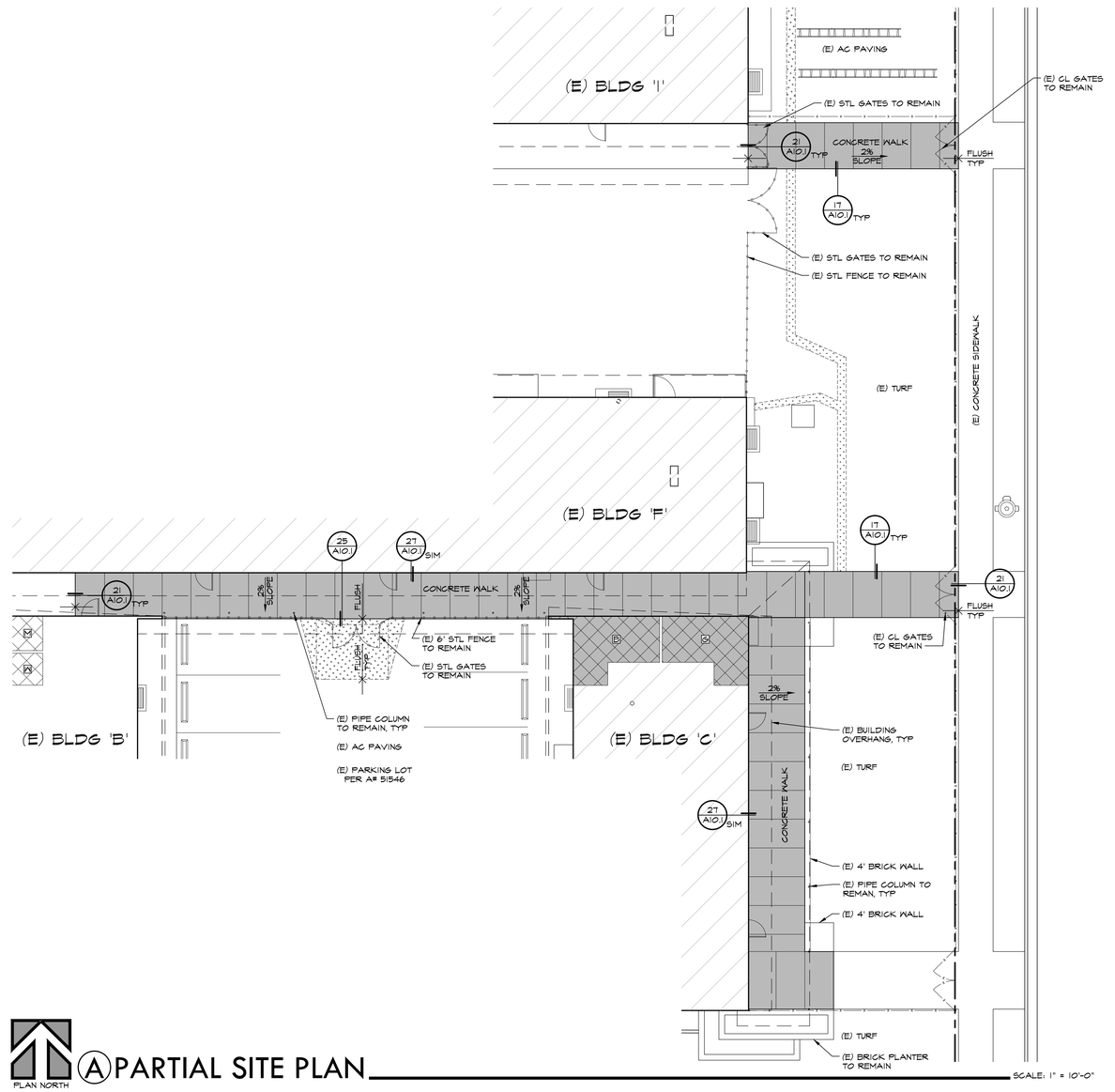
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- CONCRETE WALK *BATCH INSPECTION IS EXEMPT PER DSA IC3 (17 A10.1)
- ACCESSIBLE RESTROOM PER THIS APPLICATION
- PATCH & MATCH AC PAVING
- PATCH & MATCH TURF AS REQ'D
- PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAIN LINK FENCE
- (E) WI FENCE



PLAN NORTH

B PARTIAL SITE PLAN

SCALE: 1" = 10'-0"



PLAN NORTH

A PARTIAL SITE PLAN

SCALE: 1" = 10'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA Inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16230 EXP. 08/31/2024 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

PARTIAL SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN: ED, FS
CHECKED: SCW
DATE: 11/8/23

1.1
4 OF 80 SHEETS

LEGEND:

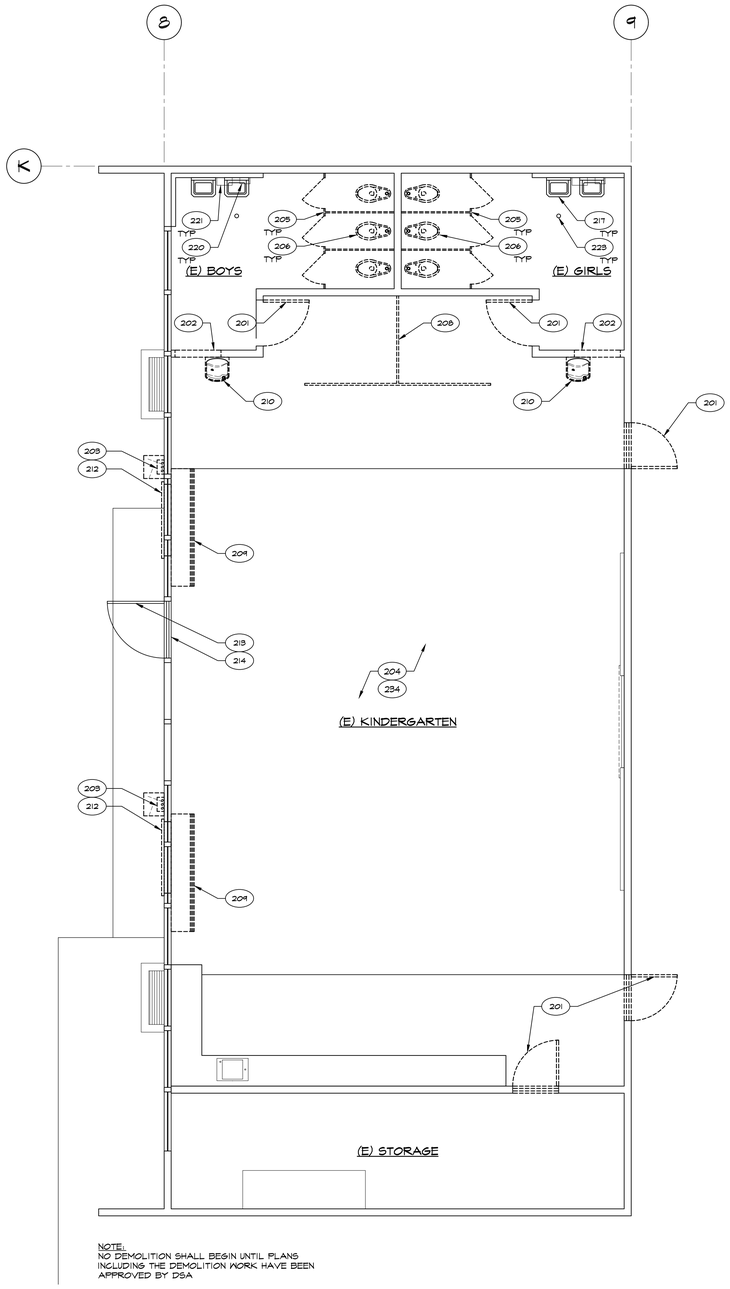
- DEMO (E) 2x WOOD STUD WALL
- (E) 2x WOOD STUD WALL
- DEMO (E) CONC SLAB AS REQ'D (29 / A10.1)
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- SIGNAGE (5 / A5.0) (12 / A10.0)

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	
202	DEMO (E) 2x STUD WALL, FINISH & CHIP OUT CONC CURB WHERE OCCURS	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	
205	DEMO (E) SOLID TOILET PARTITIONS	
206	DEMO (E) TOILET/URINAL	
207	DEMO (E) LAVATORY/SINK	
208	DEMO (E) COAT RACK	
209	DEMO (E) UNIT VENTILATOR	
210	DEMO (E) DRINKING FOUNTAIN	
211	DEMO (E) TOILET PAPER DISPENSER	
212	DEMO (E) LOUVER	
213	(E) DOOR TO REMAIN	
214	(E) THRESHOLD TO REMAIN	
215	(E) WINDOW TO REMAIN	
216	(E) HAND DRYER TO REMAIN	
217	(E) LAVATORY / SINK TO REMAIN	
218	(E) TOILET / URINAL TO REMAIN	
219	(E) GRAB BAR TO REMAIN	
220	(E) SOAP DISPENSER TO REMAIN	
221	(E) PAPER TOWEL DISPENSER TO REMAIN	
222	(E) SOLID TOILET PARTITIONS TO REMAIN	
223	(E) FLOOR DRAIN TO REMAIN	
224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
226	DOOR - SEE SCHEDULE	
227	THRESHOLD	3 / A5.0
228	REDUCER STRIP	4 / A5.0
229	GRIND SMOOTH TO MATCH CONC SURFACE	
230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 / A10.1
231	PLAM BASE CABS AND/OR UPPER CABS	20 / A10.0
232	SOLID PLASTIC PARTITIONS	7 / A10.0
233	GRAB BAR - 42" AT SIDE AND 36" AT BACK	11 / A10.0
234	DEMO (E) 1x STRIPPING & ACOUSTICAL TILE	
235	RECESSED TOILET PAPER DISPENSER	10 / A10.0
236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 / A10.0
237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	6 / A10.0
238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 / A10.0
239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 / A10.0
240	PIPE RAIL PER SPEC	

ADA REQ'D MIN CLEARANCES

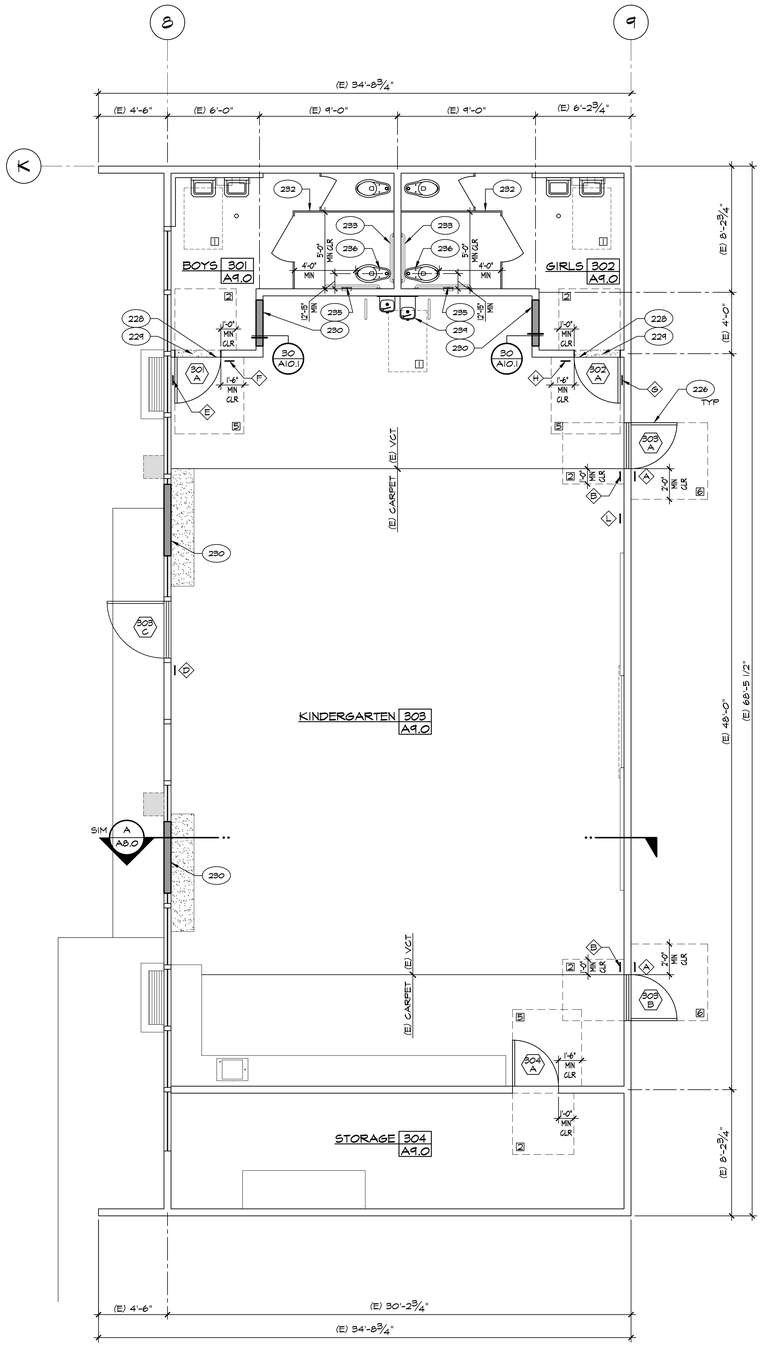
[1]	30" X 48"
[2]	48" X 48"
[3]	48" X 54"
[4]	48" X 60"
[5]	54" X 60"
[6]	60" X 60"
[7]	60" X 72"
[8]	60" DIA



NOTE:
NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

PLAN NORTH

(B) DEMO FLOOR PLAN BUILDING 'C' — SCALE : 1/4" = 1'-0"



PLAN NORTH

(A) FLOOR PLAN BUILDING 'C' — SCALE : 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT — STEPHEN J. CORBIN — No. C-16280 — CIVIL — STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT — BUILDING THE CHILD COMES FIRST

FLOOR PLAN BUILDING 'C'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

2.1
6 OF 80 SHEETS

KEYNOTES

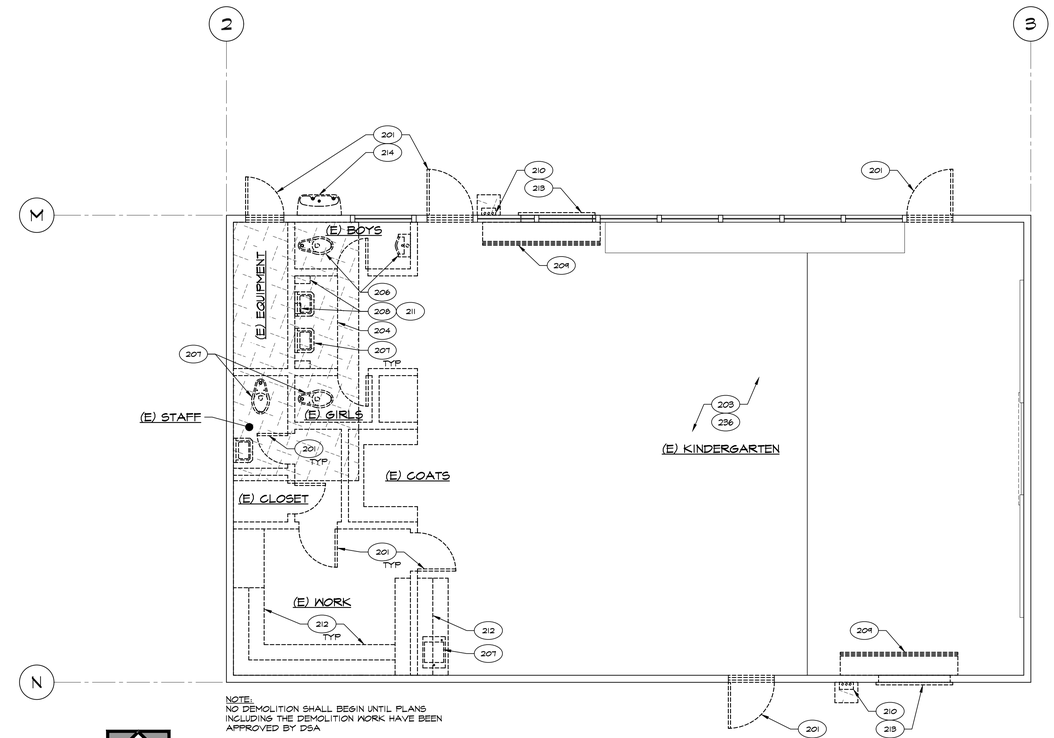
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS
203	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION
204	DEMO (E) FLOOR FINISH
205	DEMO (E) SOLID TOILET PARTITIONS
206	DEMO (E) TOILET/URINAL
207	DEMO (E) LAVATORY/SINK
208	DEMO (E) SOAP DISPENSER
209	DEMO (E) UNIT VENTILATOR
210	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE
211	DEMO (E) PAPER TOWEL DISPENSER
212	DEMO (E) CABINETS
213	DEMO (E) LOUVER
214	DEMO (E) DRINKING FOUNTAIN
215	(E) DOOR TO REMAIN
216	(E) THRESHOLD TO REMAIN
217	(E) WINDOW TO REMAIN
218	(E) HAND DRYER TO REMAIN
219	(E) LAVATORY / SINK TO REMAIN
220	(E) TOILET / URINAL TO REMAIN
221	(E) GRAB BAR TO REMAIN
222	(E) SOAP DISPENSER TO REMAIN
223	(E) PAPER TOWEL DISPENSER TO REMAIN
224	(E) SOLID TOILET PARTITIONS TO REMAIN
225	(E) FLOOR DRAIN TO REMAIN
226	(E) EXHAUST FAN SPEED CONTROL TO REMAIN
227	RELOCATED INTERMEDIATE DISTRIBUTION FRAME
228	DOOR - SEE SCHEDULE
229	THRESHOLD (3 / A5.0)
230	REDUCER STRIP
231	WINDOW - SEE SCHEDULE
232	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D (14 / A10.1)
233	PLAM BASE CABS AND/OR UPPER CABS (20 / A10.0)
234	SOLID PLASTIC PARTITIONS
235	GRAB BAR - 48" AT SIDE AND 36" AT BACK (11 / A10.0)
236	DEMO (E) ½" ACOUSTIC CEILING TILE, ⅝" GYP BOARD & 2x STRIPPING
237	RECESSED TOILET PAPER DISPENSER (10 / A10.0)
238	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS (1 / A10.0)
239	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
240	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS (5 / A10.0)
241	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS (23 / A10.0)
242	PIPE RAIL PER SPEC

LEGEND:

- DEMO (E) 2x WOOD STUD WALL
- (E) 2x WOOD STUD WALL
- 2x6 WOOD STUDS @ 16" OC O/ 6" CONC CURB W/ INSUL PER SPEC, UNO - NON-BEARING WALL (15 / A10.3) (21 / A10.2)
- 2x6 WOOD STUDS @ 16" OC UNO - NON-BEARING WALL (15 / A10.2) (2 / A10.1)
- SIGNAGE (5 / A5.0) (12 / A10.0)
- DEMO (E) CONC SLAB AS REQ'D (29 / A10.1)
- DEPRESS CONC SLAB
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- CERAMIC TILE

ADA REQ'D MIN CLEARANCES

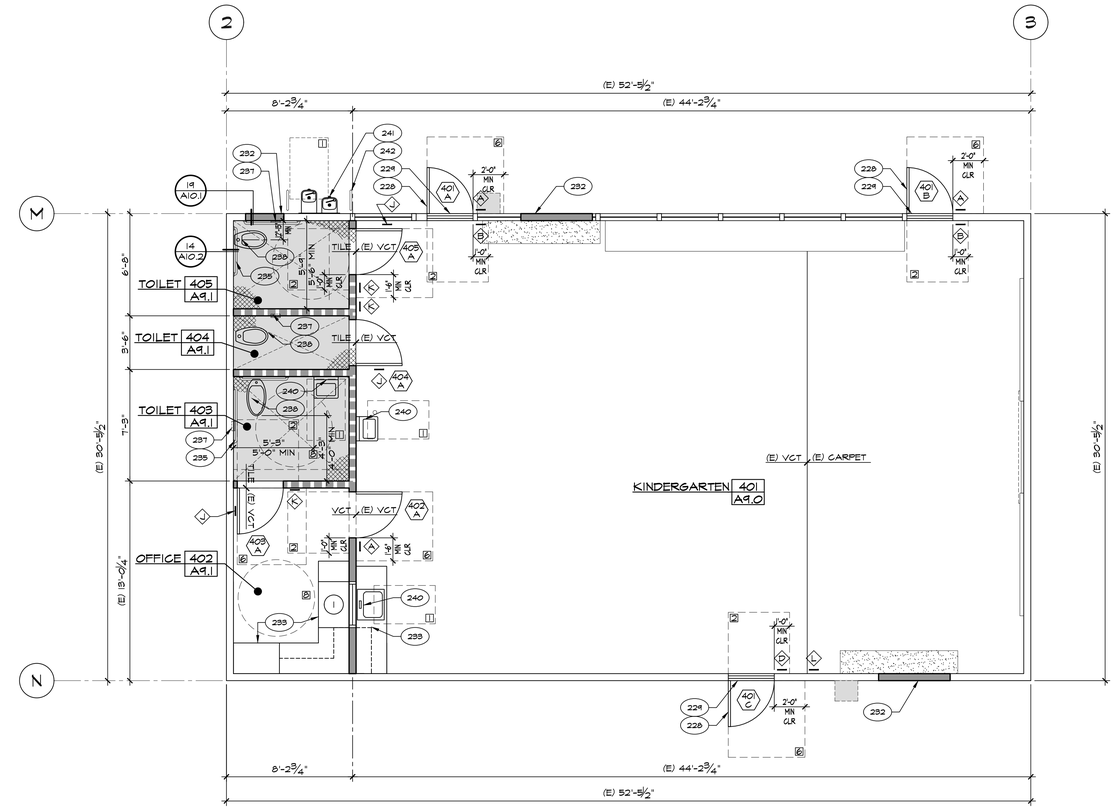
[1]	30" X 48"
[2]	48" X 48"
[3]	48" X 54"
[4]	48" X 60"
[5]	54" X 60"
[6]	60" X 60"
[7]	60" X 72"
[8]	60" DIA



PLAN NORTH

(B) DEMO FLOOR PLAN BUILDING 'D'

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



PLAN NORTH

(A) FLOOR PLAN BUILDING 'D'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16736 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FLOOR PLAN BUILDING 'D'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : SCW
DATE : 11/8/23

2.2
7 OF 80 SHEETS

LEGEND:

(E) 2x WOOD STUD WALL

(E) CMU WALL

DEMO (E) CONC SLAB AS REQ'D (2a / A101)

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	
204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	
205	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	
206	DEMO (E) TOILET/URINAL	
207	DEMO (E) LAVATORY/SINK	
208	DEMO (E) COAT RACK	
209	DEMO (E) UNIT VENTILATOR	
210	DEMO (E) DRINKING FOUNTAIN	
211	DEMO (E) TOILET PAPER DISPENSER	
212	(E) DRINKING FOUNTAIN TO REMAIN	
213	(E) DOOR TO REMAIN	
214	(E) THRESHOLD TO REMAIN	
215	(E) WINDOW TO REMAIN	
216	(E) HAND DRYER TO REMAIN	
217	(E) LAVATORY / SINK TO REMAIN	
218	(E) TOILET / URINAL TO REMAIN	
219	(E) GRAB BAR TO REMAIN	
220	(E) SOAP DISPENSER TO REMAIN	
221	(E) PAPER TOWEL DISPENSER TO REMAIN	
222	(E) SOLID TOILET PARTITIONS TO REMAIN	
223	(E) FLOOR DRAIN TO REMAIN	
224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
226	DOOR - SEE SCHEDULE	- A5.0
227	THRESHOLD	9 A5.0
228	REDUCER STRIP	4 A5.0
229	WINDOW - SEE SCHEDULE	
230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.1
231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
232	SOLID PLASTIC PARTITIONS	7 A10.0
233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
234	HAND DRYER PER SPEC	
235	RECESSED TOILET PAPER DISPENSER	10 A10.0
236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	- A10.0
237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	8 A10.0
238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	8 A10.0
239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
240	PIPE RAIL PER SPEC	
241	DEMO (E) 1x STRIPPING & ACOUSTICAL TILE	

ADA REQ'D MIN CLEARANCES

[1]	30" X 48"
[2]	48" X 48"
[3]	48" X 54"
[4]	48" X 60"
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[6]	60" X 60"
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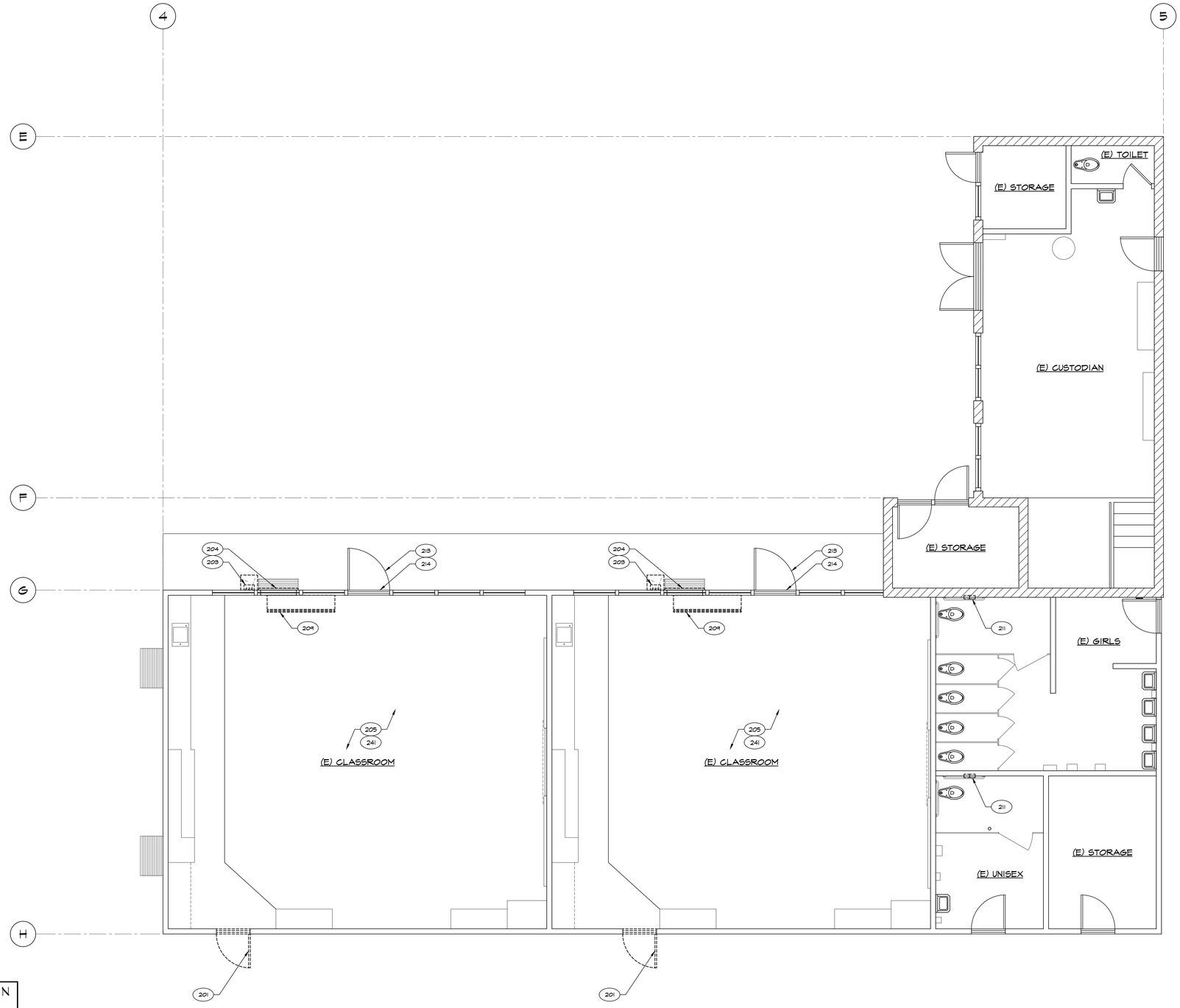

NOTE:
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PLAN NORTH

DEMO FLOOR PLAN BUILDING 'E'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
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2400 TRUXTUN AVENUE
FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA Inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-14278 EXP. 12/31/24 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

2.3
8 OF 80 SHEETS

LEGEND:

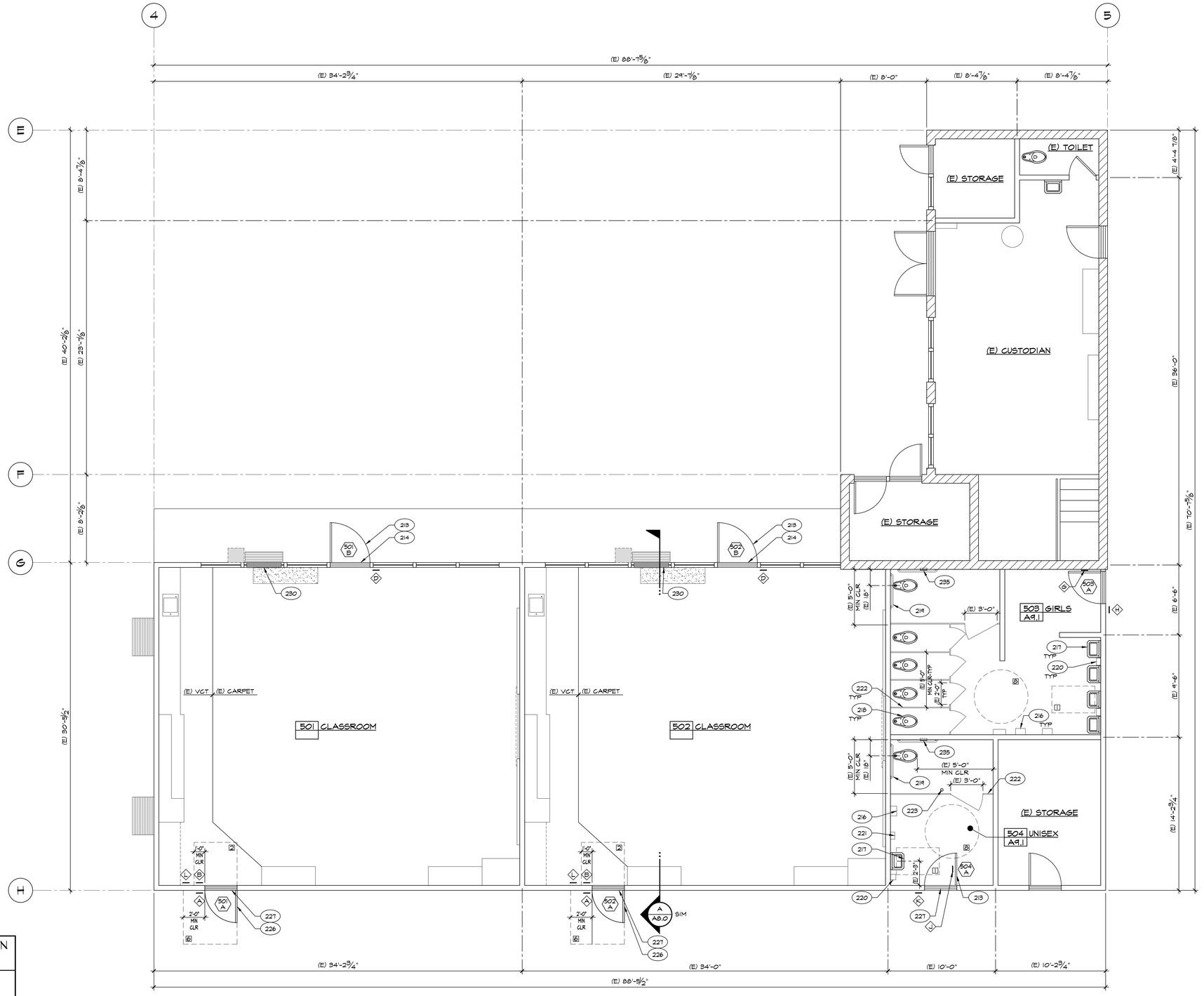
- (E) 2x WOOD STUD WALL
- (E) CMU WALL
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- SIGNAGE (5 / A5.0) (12 / A10.0)

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	
204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	
205	DEMO (E) SOLID TOILET PARTITIONS	
206	DEMO (E) TOILET/URINAL	
207	DEMO (E) LAVATORY/SINK	
208	DEMO (E) COAT RACK	
209	DEMO (E) UNIT VENTILATOR	
210	DEMO (E) DRINKING FOUNTAIN	
211	DEMO (E) TOILET PAPER DISPENSER	
212	(E) DRINKING FOUNTAIN TO REMAIN	
213	(E) DOOR TO REMAIN	
214	(E) THRESHOLD TO REMAIN	
215	(E) WINDOW TO REMAIN	
216	(E) HAND DRYER TO REMAIN	
217	(E) LAVATORY / SINK TO REMAIN	
218	(E) TOILET / URINAL TO REMAIN	
219	(E) GRAB BAR TO REMAIN	
220	(E) SOAP DISPENSER TO REMAIN	
221	(E) PAPER TOWEL DISPENSER TO REMAIN	
222	(E) SOLID TOILET PARTITIONS TO REMAIN	
223	(E) FLOOR DRAIN TO REMAIN	
224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
226	DOOR - SEE SCHEDULE	- A5.0
227	THRESHOLD	3 A5.0
228	REDUCER STRIP	4 A5.0
229	WINDOW - SEE SCHEDULE	
230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.1
231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
232	SOLID PLASTIC PARTITIONS	9 A10.0
233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
234	NOT USED	
235	RECESSED TOILET PAPER DISPENSER	10 A10.0
236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	6 A10.0
238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
240	PIPE RAIL PER SPEC	

ADA REQ'D MIN CLEARANCES

[1]	30" X 48"
[2]	48" X 48"
[3]	48" X 54"
[4]	48" X 60"
[5]	54" X 60"
[6]	60" X 60"
[7]	60" X 72"
[8]	60" DIA



PLAN NORTH

FLOOR PLAN BUILDING 'E'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA Inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-14278 EXP. 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FLOOR PLAN BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

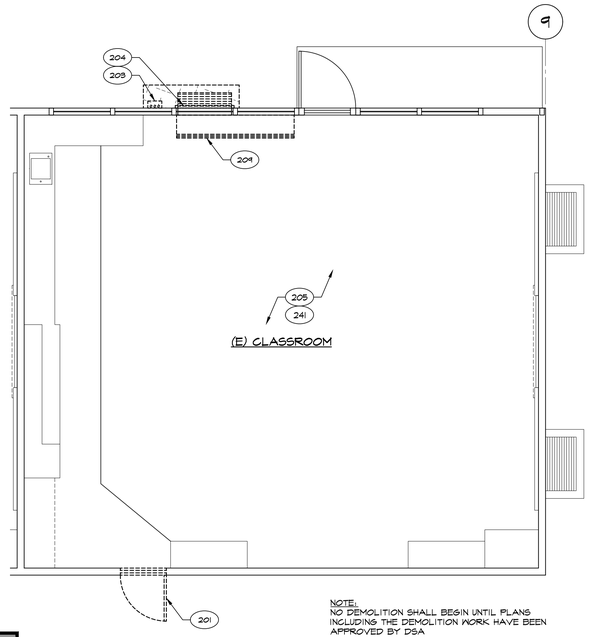
JOB NO. 1316
DRAWN : ED, FS
CHECKED : SCW
DATE : 11/8/23

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	221	(E) PAPER TOWEL DISPENSER TO REMAIN	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	222	(E) SOLID TOILET PARTITIONS TO REMAIN	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	223	(E) FLOOR DRAIN TO REMAIN	
204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
205	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
206	DEMO (E) TOILET/URINAL	226	DOOR - SEE SCHEDULE	- A5.0
207	DEMO (E) LAVATORY/SINK	227	THRESHOLD	3 A5.0
208	DEMO (E) COAT RACK	228	REDUCER STRIP	4 A5.0
209	DEMO (E) UNIT VENTILATOR	229	WINDOW - SEE SCHEDULE	
210	DEMO (E) DRINKING FOUNTAIN	230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.1
211	DEMO (E) TOILET PAPER DISPENSER	231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
212	(E) DRINKING FOUNTAIN TO REMAIN	232	SOLID PLASTIC PARTITIONS	7 A10.0
213	(E) DOOR TO REMAIN	233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
214	(E) THRESHOLD TO REMAIN	234	HAND DRYER PER SPEC	
215	(E) WINDOW TO REMAIN	235	RECESSED TOILET PAPER DISPENSER	10 A10.0
216	(E) HAND DRYER TO REMAIN	236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
217	(E) LAVATORY / SINK TO REMAIN	237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	6 A10.0
218	(E) TOILET / URINAL TO REMAIN	238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
219	(E) GRAB BAR TO REMAIN	239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
220	(E) SOAP DISPENSER TO REMAIN	240	PIPE RAIL PER SPEC	
		241	DEMO (E) 1x STRIPPING & ACOUSTICAL TILE	

ADA REQ'D MIN CLEARANCES

1	30" X 48"
2	48" X 48"
3	48" X 54"
4	48" X 60"
5	54" X 60"
6	60" X 60"
7	60" X 72"
8	60" DIA



NOTE:
NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

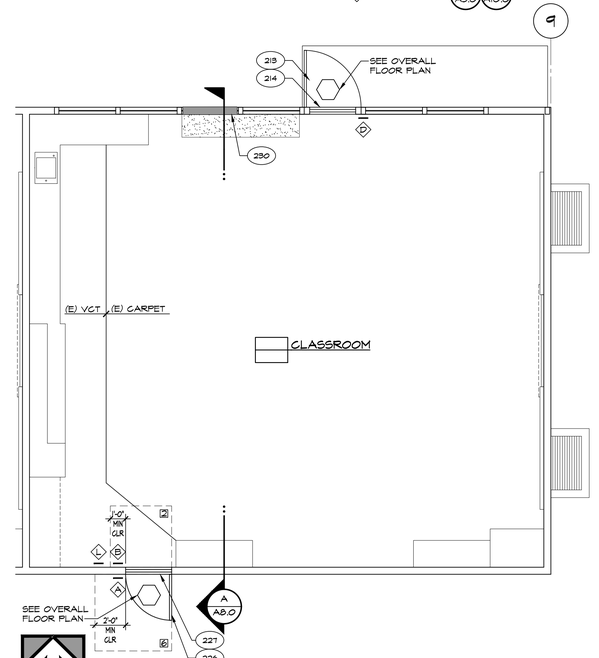
PLAN NORTH

©PARTIAL DEMO FLOOR PLAN
TYPICAL CLASSROOM

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

LEGEND:

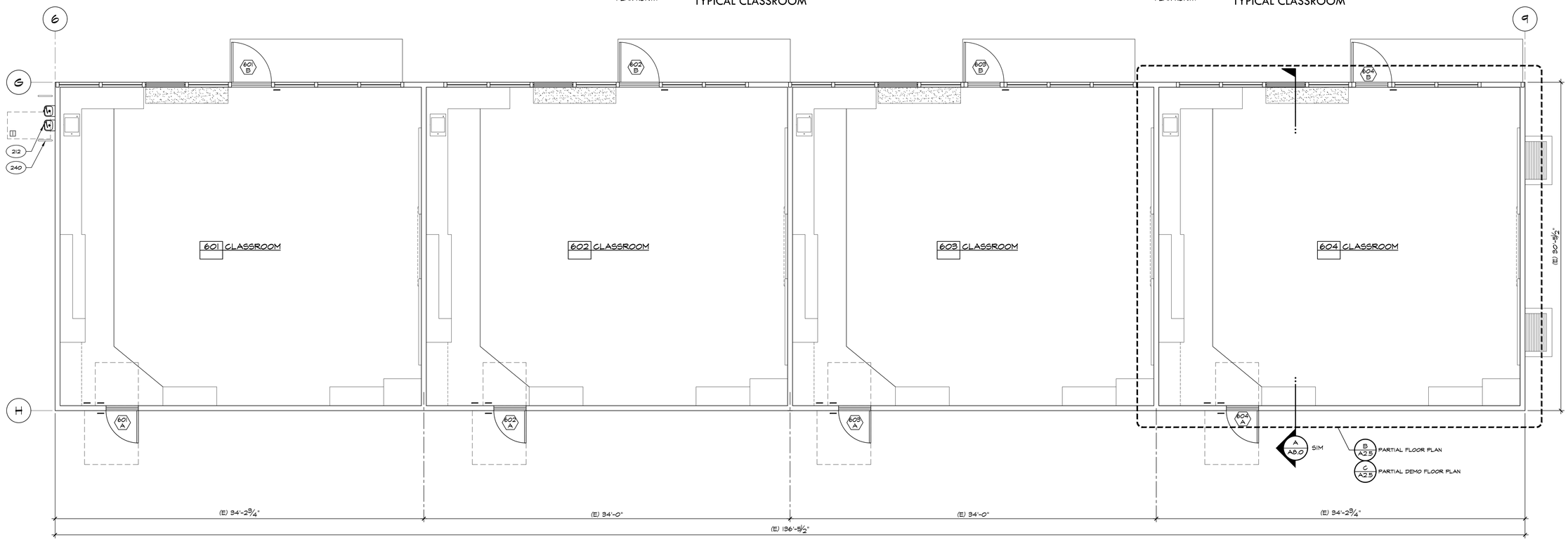
- ---------- TO BE DEMOLISHED
- ——— (E) 2x WOOD STUD WALL
- DEMO (E) CONC SLAB AS REQ'D (29 A10.1)
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- SIGNAGE (5 A5.0) (12 A10.0)



PLAN NORTH

ⒷPARTIAL FLOOR PLAN
TYPICAL CLASSROOM

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



PLAN NORTH

ⒶFLOOR PLAN BUILDING 'F'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

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LICENSED ARCHITECT STEPHEN J. CORBIN C-16288 EXP. 11/30/23 REGISTERED PROFESSIONAL ARCHITECT

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FLOOR PLAN BUILDING 'F'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

2.5
10 OF 80 SHEETS

KEYNOTES

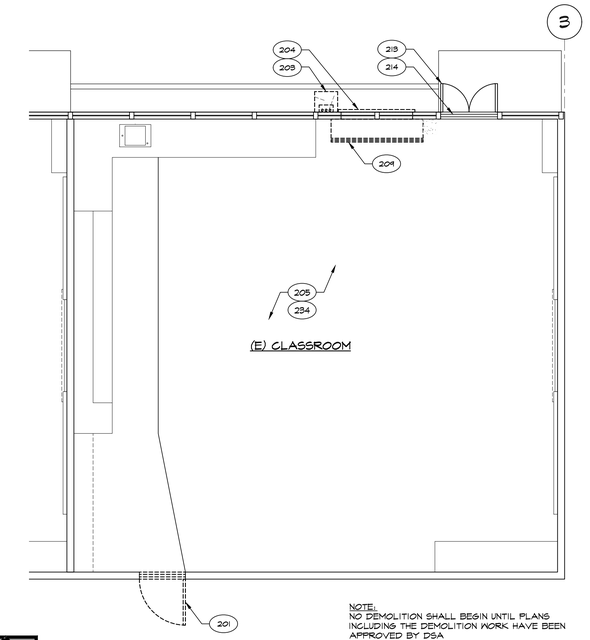
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	
204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	
205	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	
206	DEMO (E) TOILET/URINAL	
207	DEMO (E) LAVATORY/SINK	
208	DEMO COAT RACK	
209	DEMO (E) UNIT VENTILATOR	
210	DEMO (E) DF	
211	DEMO (E) TOILET PAPER DISPENSER	
212	(E) DF TO REMAIN	
213	(E) DOOR TO REMAIN	
214	(E) THRESHOLD TO REMAIN	
215	(E) WINDOW TO REMAIN	
216	(E) HAND DRYER TO REMAIN	
217	(E) LAVATORY / SINK TO REMAIN	
218	(E) TOILET / URINAL TO REMAIN	
219	(E) GRAB BAR TO REMAIN	
220	(E) SOAP DISPENSER TO REMAIN	
221	(E) PAPER TOWEL DISPENSER TO REMAIN	
222	(E) SOLID TOILET PARTITIONS TO REMAIN	
223	(E) FLOOR DRAIN TO REMAIN	
224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
226	DOOR - SEE SCHEDULE	- A5.0
227	THRESHOLD	3 A5.0
228	REDUCER STRIP	4 A5.0
229	WINDOW - SEE SCHEDULE	
230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.1
231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
232	SOLID PLASTIC PARTITIONS	7 A10.0
233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
234	DEMO (E) ½" ACOUSTIC CEILING TILE, ⅝" GYP BOARD & 2x STRIPPING	
235	RECESSED TOILET PAPER DISPENSER	10 A10.0
236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	8 A10.0
238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
240	PIPE RAIL PER SPEC	

ADA REQ'D MIN CLEARANCES

[1]	30" X 48"
[2]	48" X 48"
[3]	48" X 54"
[4]	48" X 60"
[5]	54" X 60"
[6]	60" X 60"
[7]	60" X 72"
[8]	60" DIA

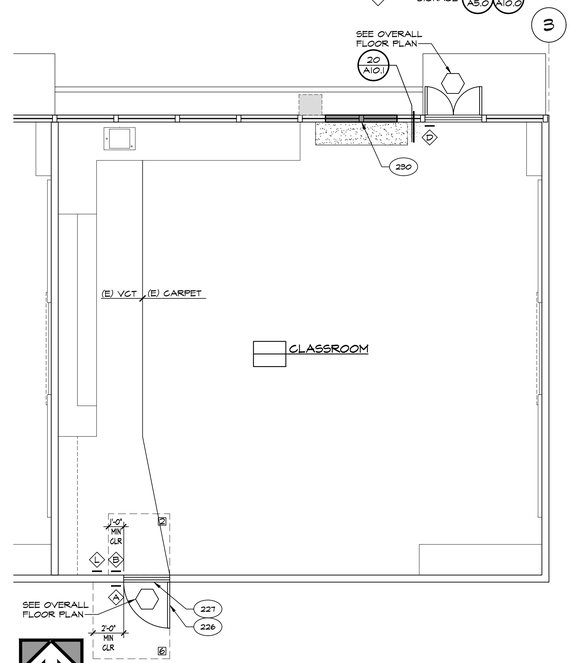
LEGEND:

- ---------- TO BE DEMOLISHED
- ——— (E) 2x WOOD STUD WALL
- DEMO (E) CONC SLAB AS REQ'D (29 A10.1)
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- SIGNAGE (5 A5.0) (12 A10.0)



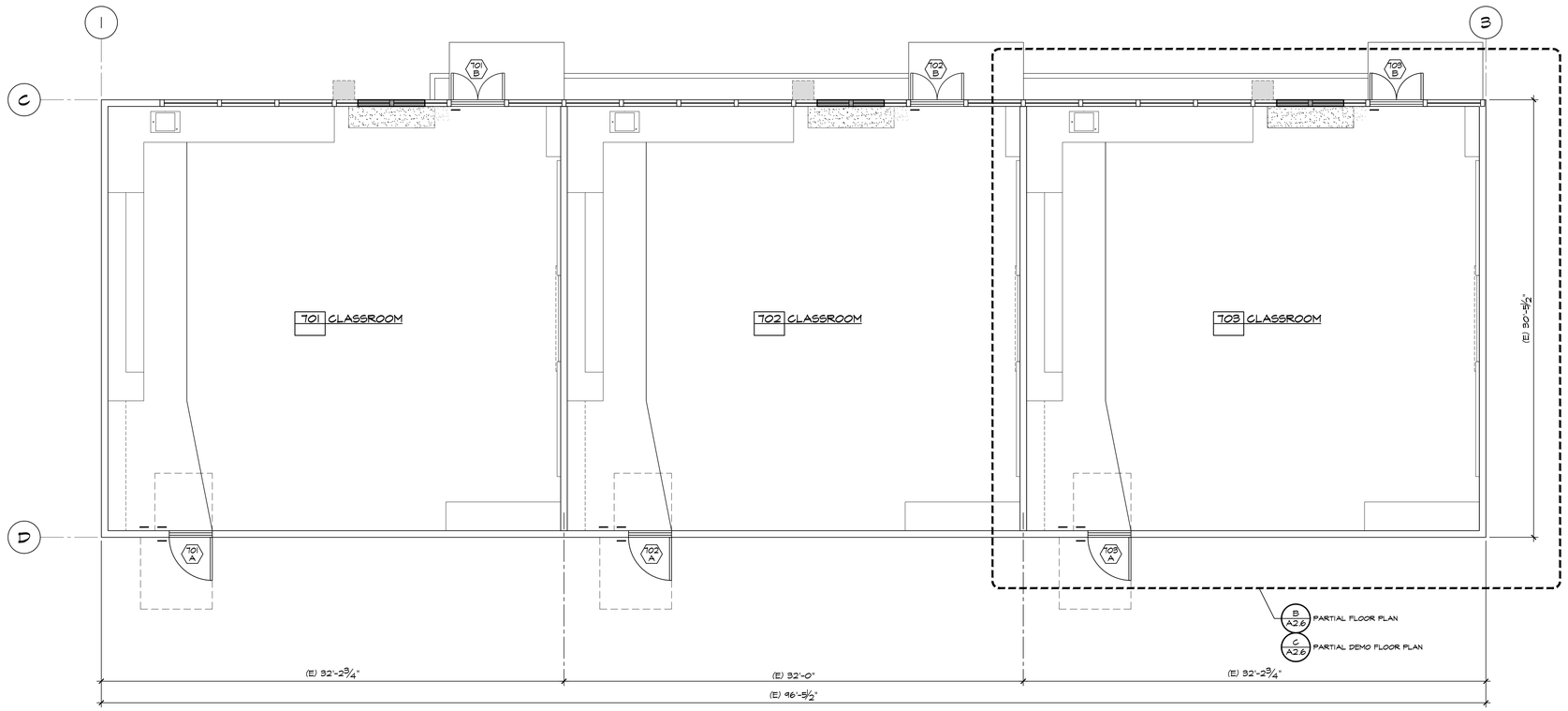
PLAN NORTH

©PARTIAL DEMO FLOOR PLAN
TYPICAL CLASSROOM — SCALE : 1/4" = 1'-0"



PLAN NORTH

ⒷPARTIAL FLOOR PLAN
TYPICAL CLASSROOM — SCALE : 1/4" = 1'-0"



PLAN NORTH

FLOOR PLAN BUILDING 'G'
SCALE : 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
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FOR
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LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16780 EXP. 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FLOOR PLAN BUILDING 'G'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

2.6
11 OF 80 SHEETS

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	
203	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	
204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	
205	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	
206	DEMO (E) TOILET/URINAL	
207	DEMO (E) LAVATORY/SINK	
208	DEMO (E) SOLID TOILET PARTITIONS	
209	DEMO (E) UNIT VENTILATOR	
210	DEMO (E) DRINKING FOUNTAIN	
211	DEMO (E) TOILET PAPER DISPENSER	
212	(E) DRINKING FOUNTAIN TO REMAIN	
213	(E) DOOR TO REMAIN	
214	(E) THRESHOLD TO REMAIN	
215	(E) WINDOW TO REMAIN	
216	(E) HAND DRYER TO REMAIN	
217	(E) LAVATORY / SINK TO REMAIN	
218	(E) TOILET / URINAL TO REMAIN	
219	(E) GRAB BAR TO REMAIN	
220	(E) SOAP DISPENSER TO REMAIN	
221	(E) PAPER TOWEL DISPENSER TO REMAIN	
222	(E) SOLID TOILET PARTITIONS TO REMAIN	
223	(E) FLOOR DRAIN TO REMAIN	
224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
226	DOOR - SEE SCHEDULE	- A5.0
227	THRESHOLD	3 A5.0
228	REDUCER STRIP	4 A5.0
229	WINDOW - SEE SCHEDULE	
230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10
231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
232	SOLID PLASTIC PARTITIONS	7 A10.0
233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
234	DEMO (E) 1x STRIPPING & ACOUSTICAL TILE	
235	RECESSED TOILET PAPER DISPENSER	10 A10.0
236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	8 A10.0
238	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	22 A10.0
240	PIPE RAIL PER SPEC	

ADA REQ'D MIN CLEARANCES

1	30" X 48"
2	48" X 48"
3	48" X 54"
4	48" X 60"
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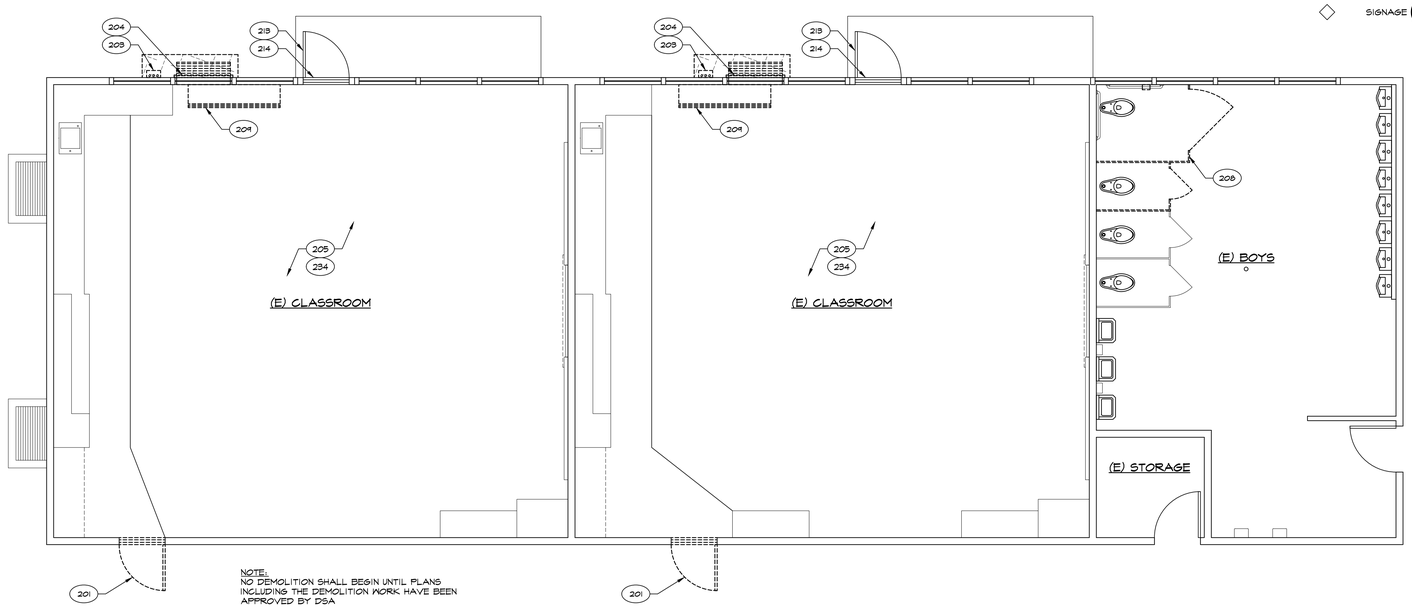
6	60" X 60"
7	60" X 72"
8	60" DIA

LEGEND:

- ---------- TO BE DEMOLISHED
- ———— (E) 2x WOOD STUD WALL
- DEMO (E) CONC SLAB AS REQ'D (24 A10.1)
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING
- SIGNAGE (5 A5.0) (12 A10.0)



NOTE:
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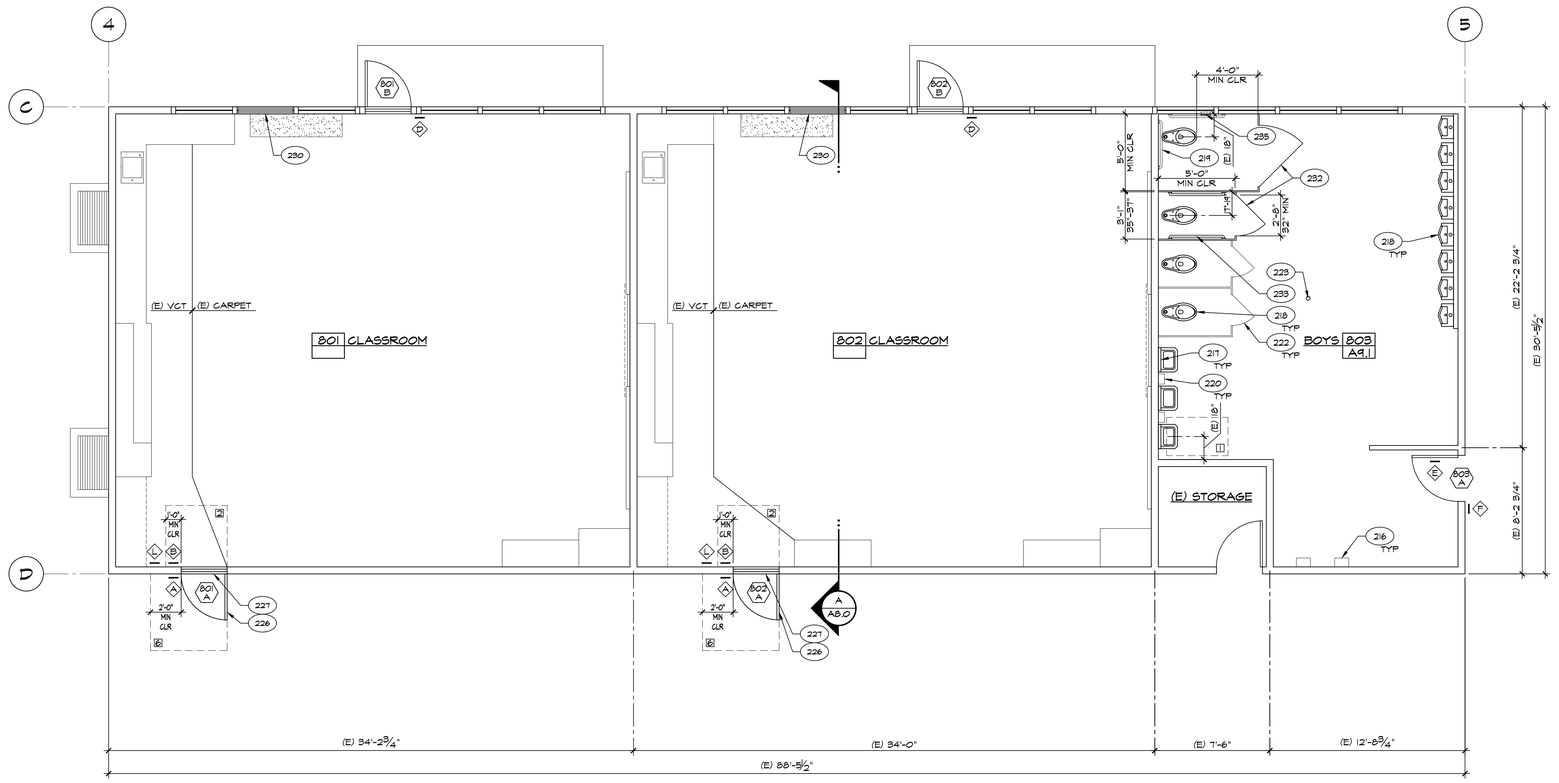
PLAN NORTH

B DEMO FLOOR PLAN BUILDING 'H'

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



PLAN NORTH

A FLOOR PLAN BUILDING 'H'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

FLOOR PLAN BUILDING 'H'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : SCW
DATE : 11/8/23

2.7
12 OF 80 SHEETS

KEYNOTES

201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD WHERE OCCURS	221	(E) PAPER TOWEL DISPENSER TO REMAIN	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	222	(E) SOLID TOILET PARTITIONS TO REMAIN	
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204	DEMO LOUVER & INFILL WALL PATCH & MATCH INTR/EXTR FINISH AS REQ'D	224	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
205	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING & BATT INSULATION	225	RELOCATED INTERMEDIATE DISTRIBUTION FRAME	
206	DEMO (E) TOILET/URINAL	226	DOOR - SEE SCHEDULE	- A5.0
207	DEMO (E) LAVATORY/SINK	227	THRESHOLD	3 A5.0
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209	DEMO (E) UNIT VENTILATOR	229	WINDOW - SEE SCHEDULE	
210	DEMO (E) DF	230	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.1
211	DEMO (E) TOILET PAPER DISPENSER	231	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
212	(E) DF TO REMAIN	232	SOLID PLASTIC PARTITIONS	7 A10.0
213	(E) DOOR TO REMAIN	233	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
214	(E) THRESHOLD TO REMAIN	234	DEMO (E) lx STRIPPING & ACOUSTICAL TILE	
215	(E) WINDOW TO REMAIN	235	RECESSED TOILET PAPER DISPENSER	10 A10.0
216	(E) HAND DRYER TO REMAIN	236	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
217	(E) LAVATORY / SINK TO REMAIN	237	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	6 A10.0
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219	(E) GRAB BAR TO REMAIN	239	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
220	(E) SOAP DISPENSER TO REMAIN	240	PIPE RAIL PER SPEC	

ADA REQ'D MIN CLEARANCES

1	30" X 48"
2	48" X 48"
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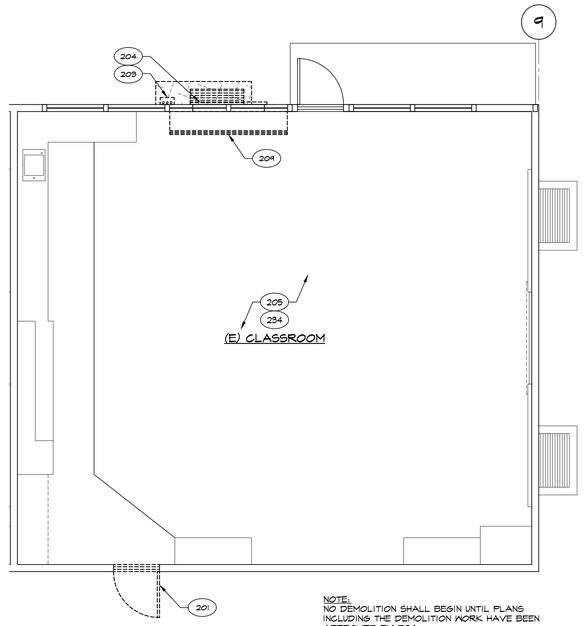
4	48" X 60"
5	54" X 60"
6	60" X 60"
7	60" X 72"
8	60" DIA

LEGEND:

- TO BE DEMOLISHED
- (E) 2x WOOD STUD WALL
- SIGNAGE (5 / A5.0) (12 / A10.0)
- DEMO (E) CONC SLAB AS REQ'D (29 / A10.1)
- PATCH & MATCH FLOORING TO MATCH (E) FLOORING



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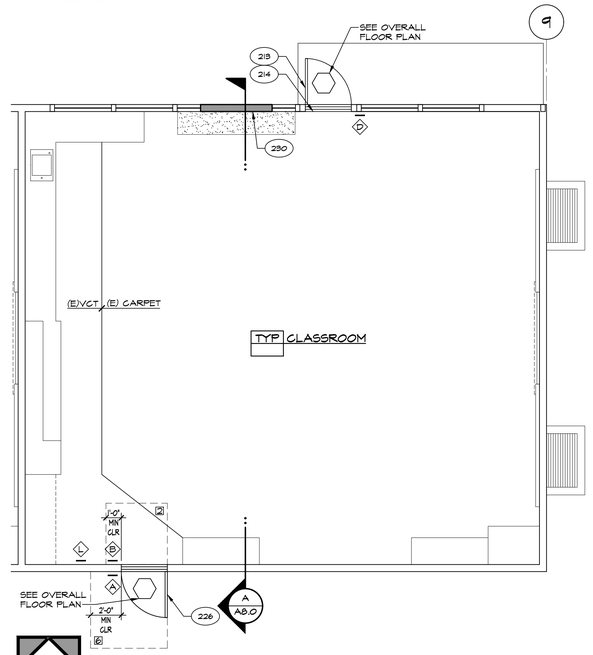
PLAN NORTH

©PARTIAL DEMO FLOOR PLAN

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

TYPICAL CLASSROOM



PLAN NORTH

ⒷPARTIAL FLOOR PLAN

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

TYPICAL CLASSROOM

PLAN NORTH

FLOOR PLAN BUILDING 'I'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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SS ☑ FLS ☑ ACS ☑
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LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16781 Exp. 12/31/24 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FLOOR PLAN
BUILDING 'I'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

2.8
13 OF 80 SHEETS

SUSPENDED CEILING NOTES (ACOUSTICAL)

1. CEILING SYSTEM GENERAL NOTES

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER:	(ARMSTRONG SUSPENDED CEILING SYSTEM OR APPROVED EQUAL)
PRODUCT NAME:	PRELUDE XL 15/16"
	CLASSIFICATION OF CEILING GRID IS HEAVY-DUTY
EVALUATION REPORT TYPE AND NUMBER:	ICC # ESR-1308
MAIN RUNNER PART, MODEL, OR CATALOG NUMBER:	#7301
CROSS RUNNER PART, MODEL, CATALOG NUMBER:	#XL 7341
	2 FOOT CROSS-T #XL 7341

1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL: SEISMIC JOINT CLIP FOR RUNNER SPLICE SJMR15 & USE EXPANSION SLEEVE ES44

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¼" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ½" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2. MATERIALS

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).

4. FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND TEST LOAD FOR EACH SIZE SPECIFIED PER CBC 1910A.5.4.]

4.03 POWER-ACTUATED FASTENERS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER.]

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.

4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING

5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.

5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

6. LUMINAIRES

6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER ASTM E580 SECTION 5.3.1.

6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

6.03 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
EXCEPTION: ALL LUMINAIRES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.

6.05 ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS, SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

REFLECTED CEILING PLAN NOTES:

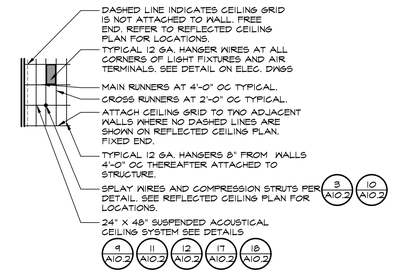
1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D

BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT PER CBC 2019 1006.2.1	
				OCC FACTOR	MAXIMUM OCC PER RM	OCC ≤ 49 (1) EXIT REQ'D	# OF EXITS PROVIDED
'C'	303	KINDERGARTEN	1,512	20 NET	76	2	2
'D'	401	KINDERGARTEN	1,342	20 NET	67	2	3

NOTE:
PER CBC SECTION 1015.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND



REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS

2'-0" x 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS

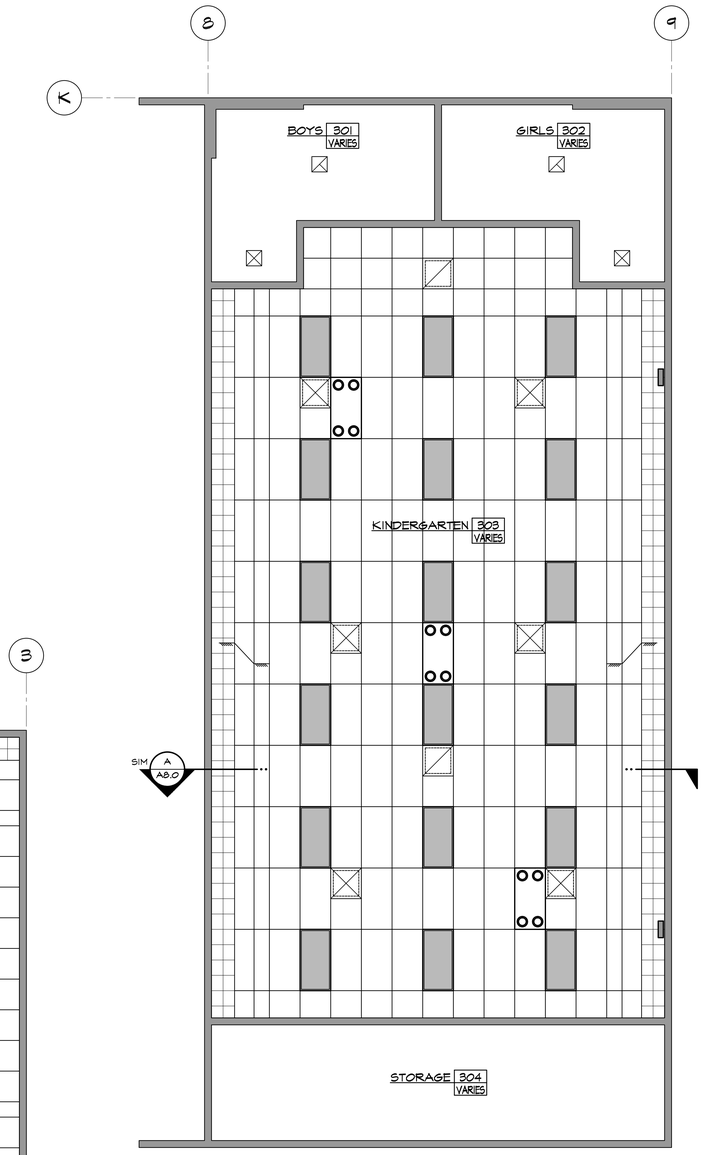
1'-0" x 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS

½" ACOUSTIC CEILING TILE PER SPEC

⅝" TYPE "X" GYP BD WITH ⅛" VENEER PLASTER

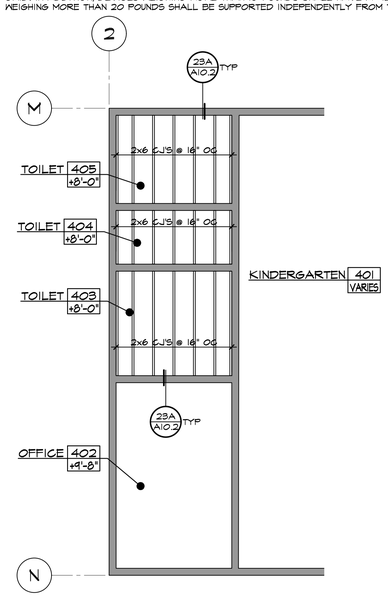
CEILING REGISTERS SEE MECHANICAL PLANS

ILLUMINATED EXIT SIGN SEE ELECTRICAL PLANS



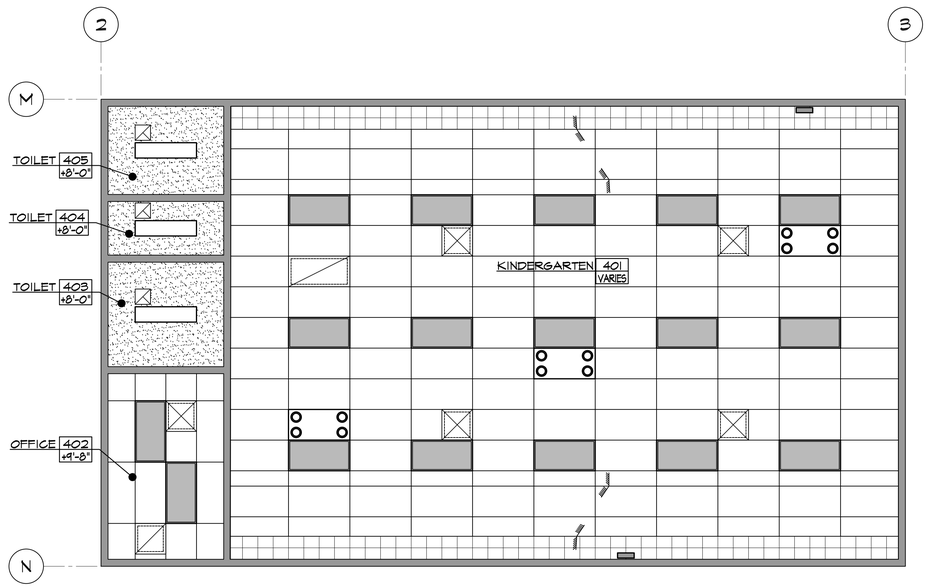
PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'C' SCALE : 1/4" = 1'-0"



PLAN NORTH

PARTIAL CEILING JOIST PLAN BUILDING 'D' SCALE : 1/4" = 1'-0"



PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'D' SCALE : 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCI inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-14278 EXP. 10/31/24 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT Where The Child Comes First

REFLECTED CEILING PLAN & JOIST PLAN BUILDING 'C' & 'D'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

4.0
14 OF 80 SHEETS

REFLECTED CEILING PLAN NOTES:

1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D

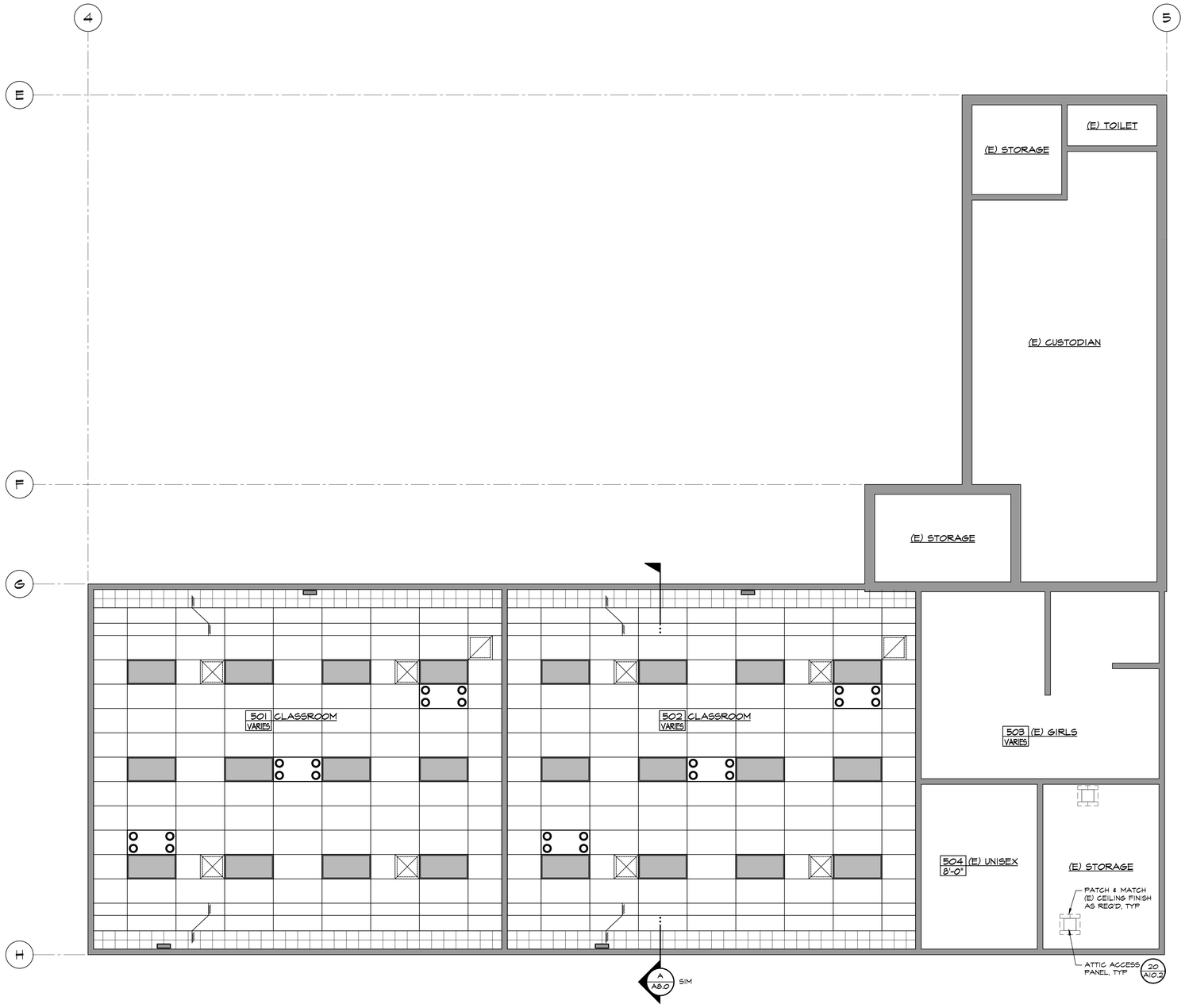
BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT PER CBC 2019 1006.2.1	
				OCC FACTOR	MAXIMUM OCC PER RM	OCC ≤ 49 (1) EXIT REQ'D	# OF EXITS PROVIDED
'E'	501 & 502	CLASSROOM	1,087	20 NET	52	2	2

NOTE:
PER CBC SECTION 1013.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND

- DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL. FREE END. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
- TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DWGS
- MAIN RUNNERS AT 4'-0" OC TYPICAL.
- CROSS RUNNERS AT 2'-0" OC TYPICAL.
- ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN. FIXED END.
- TYPICAL 12 GA. HANGERS 8" FROM WALLS 4'-0" OC THEREAFTER ATTACHED TO STRUCTURE.
- SPLAY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE REFLECTED CEILING PLAN FOR LOCATIONS. (9 / A10.2) (10 / A10.2)
- 24" X 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE DETAILS (9 / A10.2) (11 / A10.2) (12 / A10.2) (17 / A10.2) (18 / A10.2)

- REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
- 2'-0" x 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1'-0" x 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS
- ½" ACOUSTIC CEILING TILE PER SPEC
- ⅝" TYPE 'X' GYP BD WITH ⅞" VENEER PLASTER
- CEILING REGISTERS SEE MECHANICAL PLANS
- ILLUMINATED EXIT SIGN SEE ELECTRICAL PLANS



PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'E'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
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STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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REFLECTED CEILING PLAN BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

4.1
15 OF 80 SHEETS

REFLECTED CEILING PLAN NOTES:

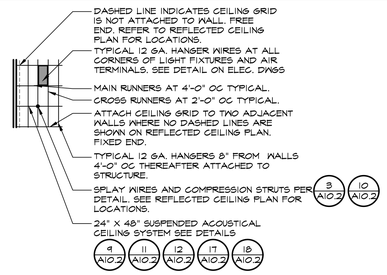
1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D

BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT PER CBC 2019 1006.2.1	
				OCC FACTOR	MAXIMUM OCC PER RM	OCC ≤ 49 (1) EXIT REQ'D	# OF EXITS PROVIDED
'F'	601 THRU 604	CLASSROOM	1,087	20 NET	52	2	2
'G'	701 THRU 703	CLASSROOM	976	20 NET	44	1	1

NOTE:
PER CBC SECTION 1015.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND



REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS

2'-0" x 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS

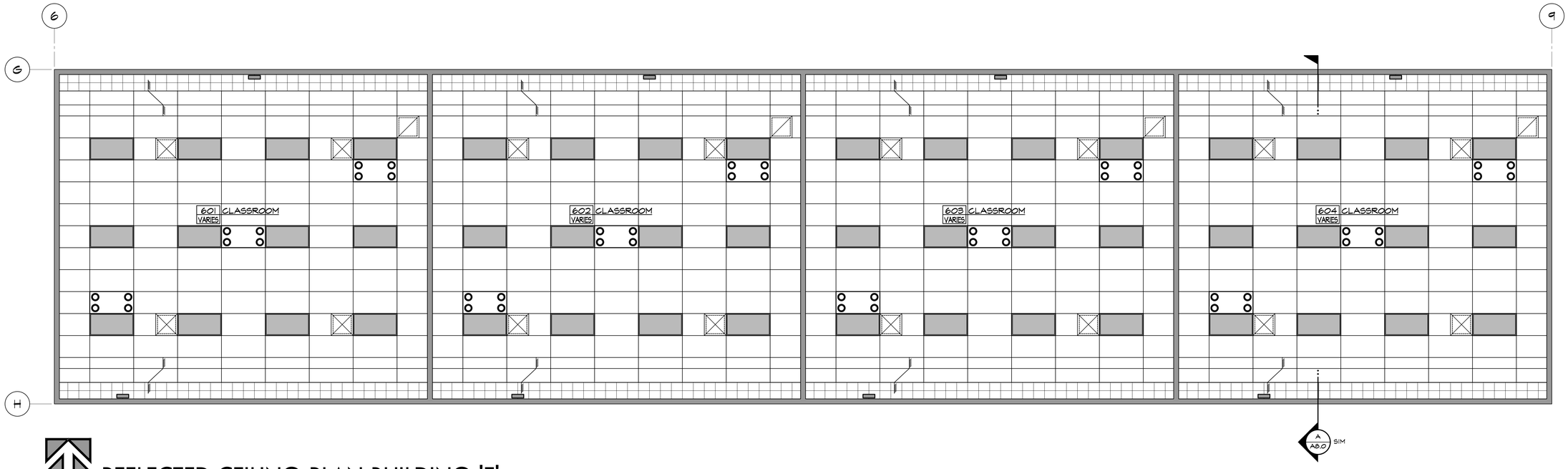
1'-0" x 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS

½" ACOUSTIC CEILING TILE PER SPEC

⅝" TYPE "X" GYP BD WITH ⅛" VENEER PLASTER

CEILING REGISTERS SEE MECHANICAL PLANS

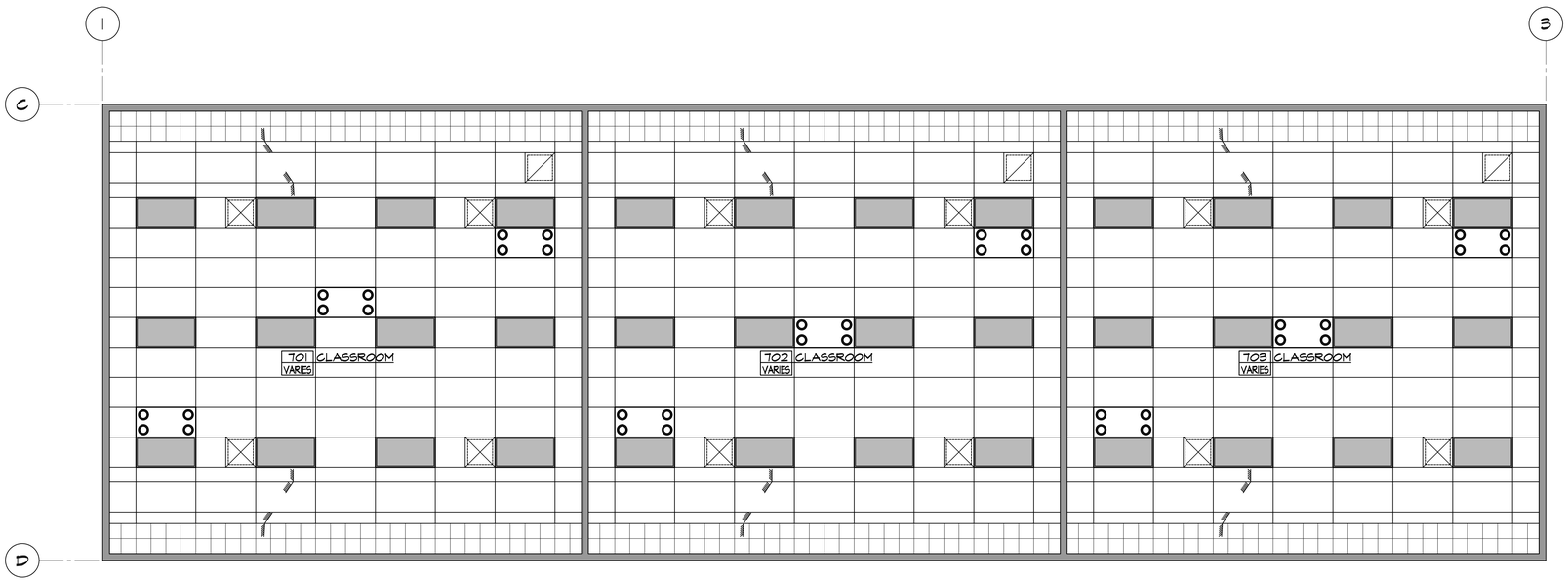
ILLUMINATED EXIT SIGN SEE ELECTRICAL PLANS



PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'F'

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



PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'G'

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

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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16736 REGISTERED CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

REFLECTED CEILING PLAN BUILDING 'F' & 'G'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : SCW
DATE : 11/8/23

4.2
16 OF 80 SHEETS

REFLECTED CEILING PLAN NOTES:

1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D

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				OCC FACTOR	MAXIMUM OCC PER RM	OCC ≤ 49 (1) EXIT REQ'D	# OF EXITS PROVIDED
'H'	801 & 802	CLASSROOM	1,087	20 NET	52	2	2
'I'	901 & 904	CLASSROOM	1,087	20 NET	52	2	2

NOTE:
PER CBC SECTION 1013.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND

- DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL. FREE END. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
- TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DWGS
- MAIN RUNNERS AT 4'-0" OC TYPICAL.
- CROSS RUNNERS AT 2'-0" OC TYPICAL.
- ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN. FIXED END.
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- SPLAY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE REFLECTED CEILING PLAN FOR LOCATIONS. (9 A10.2) (10 A10.2)
- 24" X 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE DETAILS (9 A10.2) (11 A10.2) (12 A10.2) (17 A10.2) (18 A10.2)

- REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
- 2'-0" x 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1'-0" x 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS
- ½" ACOUSTIC CEILING TILE PER SPEC
- ⅝" TYPE 'X' GYP BD WITH ⅛" VENEER PLASTER
- CEILING REGISTERS SEE MECHANICAL PLANS
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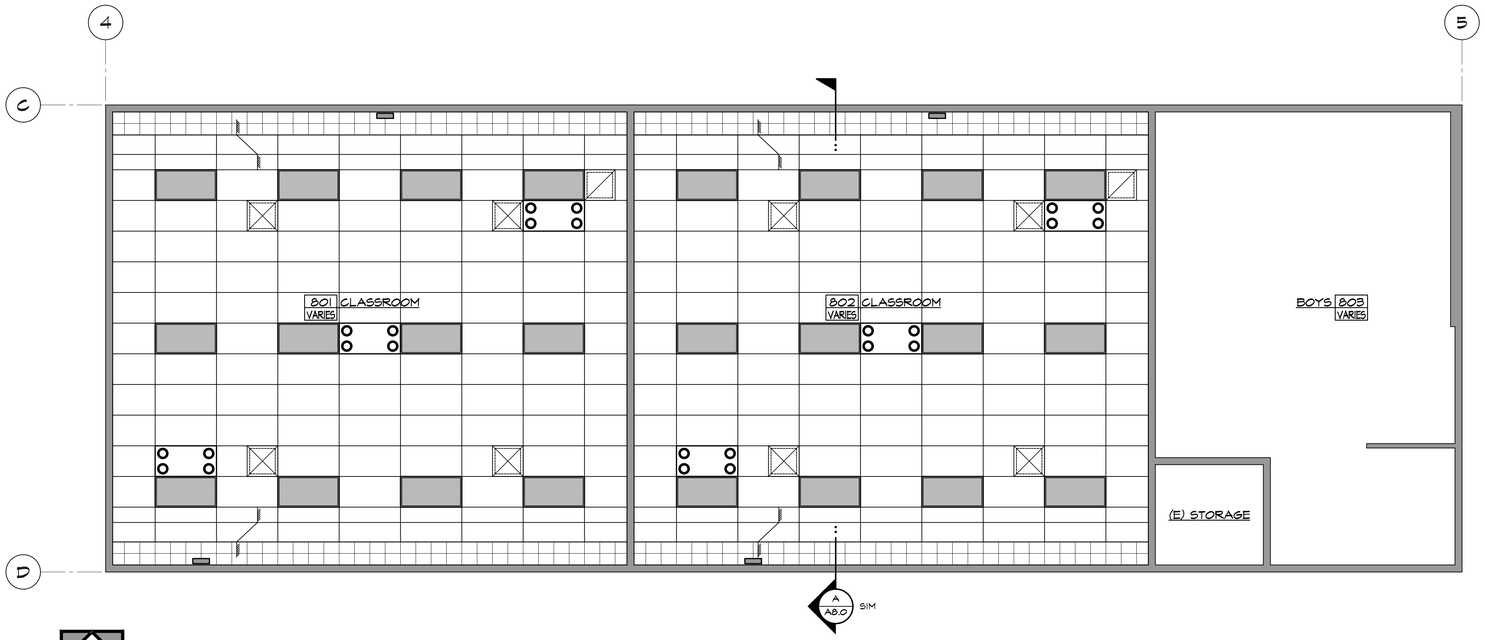
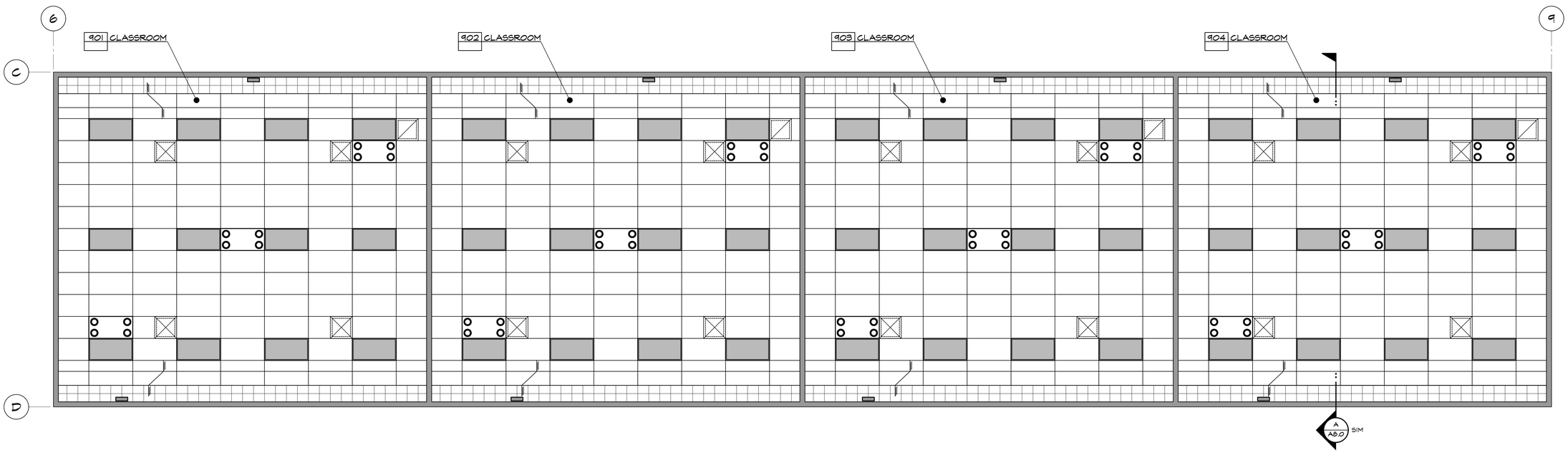


PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'H'

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



PLAN NORTH

REFLECTED CEILING PLAN BUILDING 'I'

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

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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

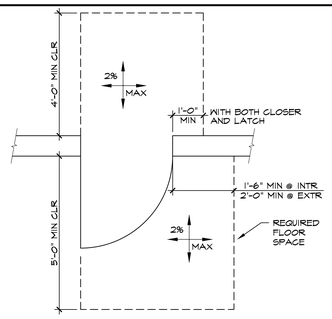
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

REFLECTED CEILING PLAN BUILDING 'H' & 'I'

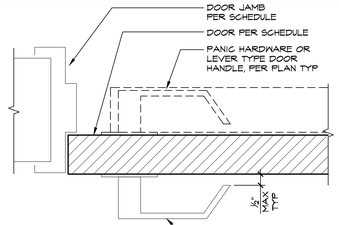
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

4.3
17 OF 80 SHEETS

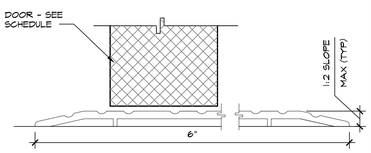


1 REQ'D FLOOR CLEARANCES SCALE: ½" = 1'-0"

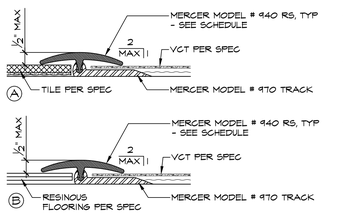


TITLE 19 SEC 18, 14-B (1) LEVERS
THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN ½" OF THE DOOR TO PREVENT CATCHING ON CLOTHING OF PERSONS DURING EGRESS.

2 DOOR/GATE LEVER SCALE: 3" = 1'-0"



3 THRESHOLD SCALE: 1" = 1'-0"



4 REDUCER STRIP SCALE: 6" = 1'-0"

DOOR SCHEDULE

BLDG #	DOOR #	DOOR TYPE	DOOR SIZE (EACH LEAF)	DOOR MATL	LOUVER SIZE	FRAME TYPE	FRAME MATL	RATING	PANIC HDWR	HNDR SET #	DETAILS L/JAMB	DETAILS HEAD	DETAILS R/JAMB	DETAILS THRESHOLD/RS	REMARKS (SEE TYP DOOR NOTE #'S 1,2,3,4,5,6,7,8,11,13, 14,17,18, & 19. ADDITIONAL REQ'S ARE FOR ALL DOORS SCHEDULED.)	SIGN TYPE	DOOR #	BLDG #
BLDG 'C'	301A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	02	9/A10.1	7/A10.1	9/A10.1	-	-	E/F	301A	BLDG 'C'
	302A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	02	9/A10.1	7/A10.1	9/A10.1	-	-	G/H	302A	
	303A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	01	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	303A	
	303B	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	01	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	303B	
	303C	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	303C	
	304A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	03	9/A10.1	7/A10.1	9/A10.1	-	-	A	304A	
BLDG 'D'	401A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	01	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	401A	BLDG 'D'
	401B	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	01	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	401B	
	401C	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	06	10/A10.1	8/A10.1	10/A10.1	-	-	D	401C	
	402A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	03	9/A10.1	7/A10.1	9/A10.1	-	-	A/K	402A	
	403A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	04	9/A10.1	7/A10.1	9/A10.1	-	-	J/K	403A	
	404A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	02	9/A10.1	7/A10.1	9/A10.1	-	-	A/A	404A	
	405A	A	3'-0" X 6'-8"	WD	-	A	HM	-	-	08	9/A10.1	7/A10.1	9/A10.1	-	-	J/K	405A	
BLDG 'E'	501A	A	3'-0" X 6'-8"	HM	-	A	HM	20 MIN	-	07	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	501A	BLDG 'E'
	501B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	501B	
	502A	A	3'-0" X 6'-8"	HM	-	A	HM	20 MIN	-	07	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	502A	
	502B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	502B	
	503A	(E)	3'-0" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	G/H	503A	
	504A	(E)	3'-0" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	J/K	504A	
BLDG 'F'	601A	A	3'-0" X 6'-8"	HM	-	A	HM	20 MIN	-	07	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	601A	BLDG 'F'
	601B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	601B	
	602A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	602A	
	602B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	602B	
	603A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	603A	
	603B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	603B	
	604A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	604A	
	604B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	604B	
BLDG 'G'	701A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	701A	BLDG 'G'
	701B	(E)	PAIR 1'-10" X 6'-8"	(E)	-	(E)	(E)	-	-	-	-	-	-	-	-	D	701B	
	702A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	702A	
	702B	(E)	PAIR 1'-10" X 6'-8"	(E)	-	(E)	(E)	-	-	-	-	-	-	-	-	D	702B	
	703A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	703A	
	703B	(E)	PAIR 1'-10" X 6'-8"	(E)	-	(E)	(E)	-	-	-	-	-	-	-	-	D	703B	
BLDG 'H'	801A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	801A	BLDG 'H'
	801B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	801B	
	802A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	802A	
	802B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	802B	
	803A	(E)	3'-0" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	E/F	803A	
BLDG 1'	901A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	901A	BLDG 1'
	901B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	901B	
	902A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	902A	
	902B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	902B	
	903A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	903A	
	903B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	903B	
	904A	A	3'-0" X 6'-8"	HM	-	A	HM	-	-	05	10/A10.1	8/A10.1	10/A10.1	-	-	A/B	904A	
	904B	(E)	3'-8" X 6'-8"	HM	-	(E)	(E)	-	-	-	-	-	-	-	-	D	904B	

ROOM FINISH SCHEDULE

BLDG #	ROOM #	DESCRIPTION	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING MATL	CEILING HEIGHT	REMARKS	ROOM #	BLDG #
BLDG 'C'	301	BOYS	3A	6A/6E	1A	1A/5E	1A	1A	2A	VARIES	-	301	BLDG 'C'
	302	GIRLS	3A	6A/6E	1A	1A	1A	1A/5E	2A	VARIES	-	302	
	303	KINDERGARTEN	4A/5A	4A/5A	2A	3A	3A	1A/3A	4B	VARIES	-	303	
	304	STORAGE	1A	3A	1A	1A	1A	1A	1A	VARIES	-	304	
BLDG 'D'	401	KINDERGARTEN	4A/5A/7E	4A/9B	2A	2A	2A	5C	4B	VARIES	-	401	BLDG 'D'
	402	OFFICE	7D	9B	5C	5C	5C	5C	4B	9'-8"	-	402	
	403	TOILET	9B	12B	5C/8B	5C/8B	5C/8B	5C/8B	5C	8'-0"	-	403	
	404	TOILET	9B	12B	5C/8B	5C/8B	5C/8B	5C/8B	5C	8'-0"	-	403A	
	405	TOILET	9B	12B	5C/8B	5C/8B	5C/8B	5C/8B	5C	8'-0"	-	404	
BLDG 'E'	501	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	501	BLDG 'E'
	502	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	502	
	503	GIRLS	6A	7A	1A/4A	1A/4A	1A/4A	1A/4A	2A	VARIES	-	503	
	504	UNISEX	6A	7A	1A/4A	1A/4A	1A/4A	1A/4A	2A	VARIES	-	504	
BLDG 'F'	601	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	601	BLDG 'F'
	602	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	602	
	603	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	603	
	604	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	604	
BLDG 'G'	701	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	701	BLDG 'G'
	702	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	702	
	703	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	703	
BLDG 'H'	801	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	801	BLDG 'H'
	802	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	802	
	803	BOYS	6A	7A	1A/4A	1A/4A	1A/4A	1A/4A	2A	VARIES	-	803	
BLDG 1'	901	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	901	BLDG 1'
	902	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	902	
	903	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	903	
	904	CLASSROOM	4A/5A/7E	4A/9B	2A/5C	2A	2A	2A	4B	VARIES	-	904	

TYPICAL DOOR NOTES

1. FOR BUILDERS HARDWARE, REFER TO SPECIFICATION SECTION 08 71 00
2. EXIT DOOR REQUIREMENTS:
   ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILETS, AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE 2019 CBC TITLE 24 THE FOLLOWING ARE SOME OF THE REQUIREMENTS:
   EXIT DOORS SHALL OPEN FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
   HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" (INCHES) ABOVE THE FLOOR
   DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE
3. ALL EXTERIOR FACED DOOR GLAZING SHALL BE SINGLE GLAZED, TINTING TO MATCH WINDOW GLAZING
4. ALL ALUM DOORS & DOOR FRAMES SHALL BE ANODIZED ALUMINUM, PER SPEC
5. ALL HOLLOW METAL DOOR & DOOR FRAMES SHALL BE PAINTED W/ SEMI-GLOSS ENAMEL, PER SPEC
6. ALL WOOD DOORS SHALL RECEIVE STAIN W/ SEMI-TRANSPARENT FINISH, PER SPEC UNO
7. ALL INTERIOR DOOR FRAMES SHALL BE 2" WIDE UNO
8. ADJUST DOOR CLOSING DEVICES TO 5 LBS EXTERIOR & 5 LBS INTERIOR
9. PAINT LOUVER(S), SIZE AND LOCATION AS INDICATED, W/ SEMI-GLOSS ENAMEL FINISH, PER SPEC
10. ACCESSIBLE TOILET ROOM SIGNAGE, SEE TYPES THIS SHEET
11. ALL INTERIOR GLAZING SHALL BE ¼" CLEAR WIRE GLAZING UNO (SQUARE PATTERN) @ FIRE RATED ASSEMBLIES, FOR NON-RATED ASSEMBLIES USE ¼" CLEAR TEMP GLAZING
12. PROVIDE VISION PANEL, SIZE AS INDICATED, FOR NON-RATED ASSEMBLIES USE ¼" CLEAR TEMP GLAZING. FIRE RATED ASSEMBLIES SHALL BE FIRE RATED GLASS PER SPECIFICATIONS SEC 08 81 00
13. DOOR LEVER REQUIREMENTS (2 / A5.0)
14. GROUT ALL HM DOOR JAMB BOTTOMS - TYP (3 / A10.1)
15. REFER TO STRUCTURAL DRAWING FOR HEADER SIZES REQUIRED
17. MIN FLOOR SPACE REQUIREMENTS AT DOORS (1 / A5.0)
18. PROVIDE DOOR SIGNAGE PER SPEC AND SCHEDULE
19. EACH UNIT OF TEMPERED GLAZING SHALL BE PERMANENTLY IDENTIFIED BY THE MANUFACTURER. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLAZING AND BE VISIBLE WHEN THE UNIT IS GLAZED. TEMPERED SPANDREL GLAZING IS EXEMPTED FROM PERMANENT LABELING BUT SUCH GLAZING SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A REMOVABLE PAPER LABEL.

REDUCER STRIP SCHEDULE

NOTE: ALL NUMBERS ARE MERCER RS-1 = 940 STRIP IN 970 TRACK (4 / A5.0)

FINISH SCHEDULE NOTES

1. CERAMIC TILE SHALL BE INSTALLED IN ACCORDANCE W/ TILE COUNCIL OF AMERICA INSTALLATION PROCEDURES FOR COMMERCIAL CONSTRUCTION (CURRENT EDITION)
2. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS
3. SEE REFLECTED CEILING PLAN FOR VOLUME CEILING.
4. ALL GYP BOARD SHALL BE FIRE TAPED.
5. ALL WOOD TRIMS @ DOORS & WINDOWS SHALL BE PAINTED W/ SEMI-GLOSS ENAMEL
6. ALL INTERIOR FINISHES SHALL CONFORM W/ CBC CHAPTER 8, CFC SECTION 1103.9.3, TITLE 19 CCR.
7. ALL CERAMIC TILE GROUT SHALL RECEIVE SEALANT
8. PATCH BACK AND MATCH ALL (E) FINISHES DISTURBED BY ADDITION OF ANY CONSTRUCTION WORK. ANY NEW WALL FINISHES AT INFILLS SHALL BE FLUSH W/ EX ADJACENT WALLS. ALL VOIDS EXPOSING EXISTING FRAMING DUE TO THE REMOVAL OF FINISHES, WALLS, CEILINGS OR BLOCKING INSTALLATION SHALL BE PATCHED, FILLED AND FINISHED TO MATCH EXISTING ADJACENT AS INDICATED ON ROOM FIN SCH.

FINISH NOTES AND MATERIALS

FLOORS

1. (E) LINOLEUM O/ PLYWOOD
2. (E) SHEET VINYL
3. (E) COLORED CONCRETE
4. (E) VINYL COMPOSITION TILE
5. (E) CARPET
6. (E) UNGLAZED CERAMIC TILE
7. VINYL COMPOSITION TILE (12 X 12)
8. SHEET VINYL
9. UNGLAZED CERAMIC MOSAIC TILE

BASE

1. (E) COVED LINOLEUM
2. (E) 6" COVED SHEET VINYL
3. (E) WOOD
4. (E) 4" RUBBER TOPSET
5. (E) CARPET
6. (E) 6" CEMENT
7. (E) COVED CERAMIC TILE
8. (E) FRP
9. WOOD
10. 4" RUBBER TOPSET
11. COVED SHEET VINYL
12. 4" COVED GLAZED CERAMIC TILE (29 / A10.0)

WALLS

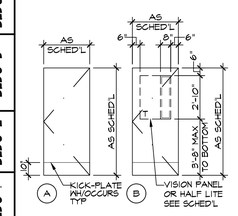
1. (E) PLASTER
2. (E) PLASTER W/ VCTWB
3. (E) FIBRE BOARD
4. (E) CERAMIC TILE
5. ⅝" TYPE "X" GYP BD WITH ⅛" VENEER PLASTER
6. ACOUSTICAL PANEL O/ ⅝"TYPE "X" GYP BOARD
7. VINYL COVERED TACKABLE WALLBOARD (VCTWB) OVER ⅝" TYPE "X" GYP BD
8. GLAZED CERAMIC TILE PER SPEC'S (25 / A10.0) (28 / A10.0)

CEILING

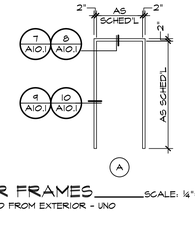
1. (E) PLASTER
2. (E) FIBRE BOARD
3. (E) T-BAR W/ ACOUSTICAL TILES
4. SUSPENDED 2'-0" x 4'-0" T-BAR CEILING SYSTEM W/ LAY-IN ACOUSTIC PANELS
5. ⅝" TYPE "X" GYP BD WITH ⅛" VENEER PLASTER

FINISHES

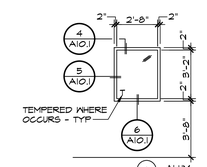
A. EXISTING
B. FACTORY FINISH
C. PAINT - PER SPEC
D. SEALER WAX
E. PATCH & MATCH



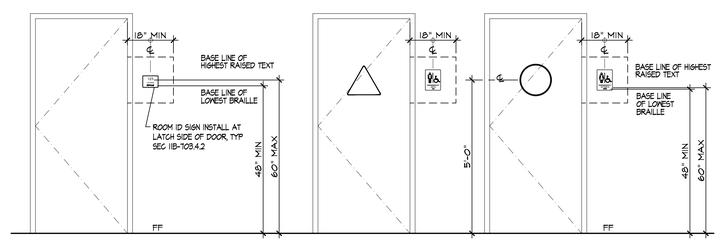
DOOR TYPES SCALE: ¼" = 1'-0"
HALF LITE SHALL BE TEMPERED GLASS
SAFETY IMPACT GLAZING SHALL COMPLY W/ CBC 2406, TESTED IN ACCORDANCE W/ CPSC 16 CFR PART 1201



DOOR FRAMES SCALE: ¼"=1'-0"
AS VIEWED FROM EXTERIOR - UNO



WINDOW TYPES 1 ALUM SCALE: ¼"=1'-0"
AS VIEWED FROM EXTERIOR - UNO
@GLASS TEMPERED WHERE OCCURS, AS INDICATED ON FLOOR PLAN W/ T
SAFETY IMPACT GALZING SHALL COMPLY W/ CBC 2406, TESTED IN ACCORDANCE W/ CPSC 16 CFR PART 1201



TYPICAL DOOR SIGNAGE MOUNTING HEIGHTS

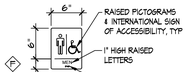
A ROOM IDENTIFICATION SIGN

B EXIT SIGN

C EXIT ROUTE SIGN

D NO EXIT SIGN

E MEN'S TOILET SIGN
PER CBC IIB-703.7.2.6.1



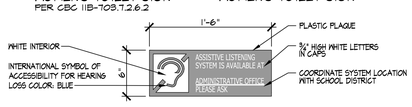
F MEN'S TOILET SIGN

G WOMEN'S TOILET SIGN
PER CBC IIB-703.7.2.6.2

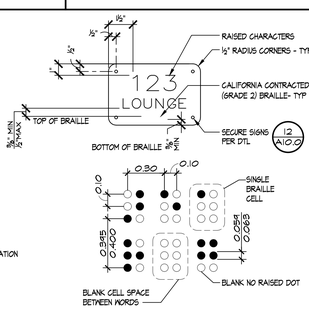
H WOMEN'S TOILET SIGN

J UNISEX SIGN
PER CBC IIB-703.7.2.6.3

K UNISEX SIGN



L ASSISTIVE LISTENING SIGN
NOTE: FOR SIGN LOCATION, FLOOR PLAN CENTRUM SOUND 'CS ADA KIT 3105



DOT HEIGHT SHALL BE 0.025 TO 0.037
BRAILLE DIMENSIONS PER TABLE IIB-703.3.1

NOTES:

1. RAISED CHARACTERS SHALL BE UPPERCASE LETTERS & NUMERALS, SAN SERIF ⅝" MIN TO 2" MAX HEIGHT AND 1/32" MIN RAISED ABOVE BACKGROUND AND SHALL BE DUPLICATED IN BRAILLE PER SECTIONS IIB-703.2 & IIB-703.3 CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN & 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF THE HEIGHT OF CHARACTER. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN THE MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE ⅛" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE ⅛" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE BASE OF CROSS SECTIONS, AND 1/8" AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS ⅜" MIN.
2. BRAILLE SHALL BE CALIFORNIA CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS IIB-703.3 & IIB-703.4, BRAILLE DOTS SHALL BE DOMED OR ROUNDED.
3. SIGNAGE SHOWN HEREIN ARE NOT NECESSARILY INCLUDED IN THIS PROJECT. REFER TO PLANS AND SPECIFICATIONS FOR SIGNAGE TYPE AND LOCATION.
4. DIRECTIONAL SIGNS PER PLAN & DESIGNATED AT PATH OF TRAVEL.
5. TACTILE SIGNAGE MOUNTING AND ATTACHMENT PER SPECIFICATIONS.

5 DOOR SIGNAGE SCALE: NTS

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APP: 03-122910 INC:
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DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DOOR SCHEDULE, ROOM FINISH SCHEDULE & DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

5.0
18 OF 80 SHEETS

ROOFING NOTES:

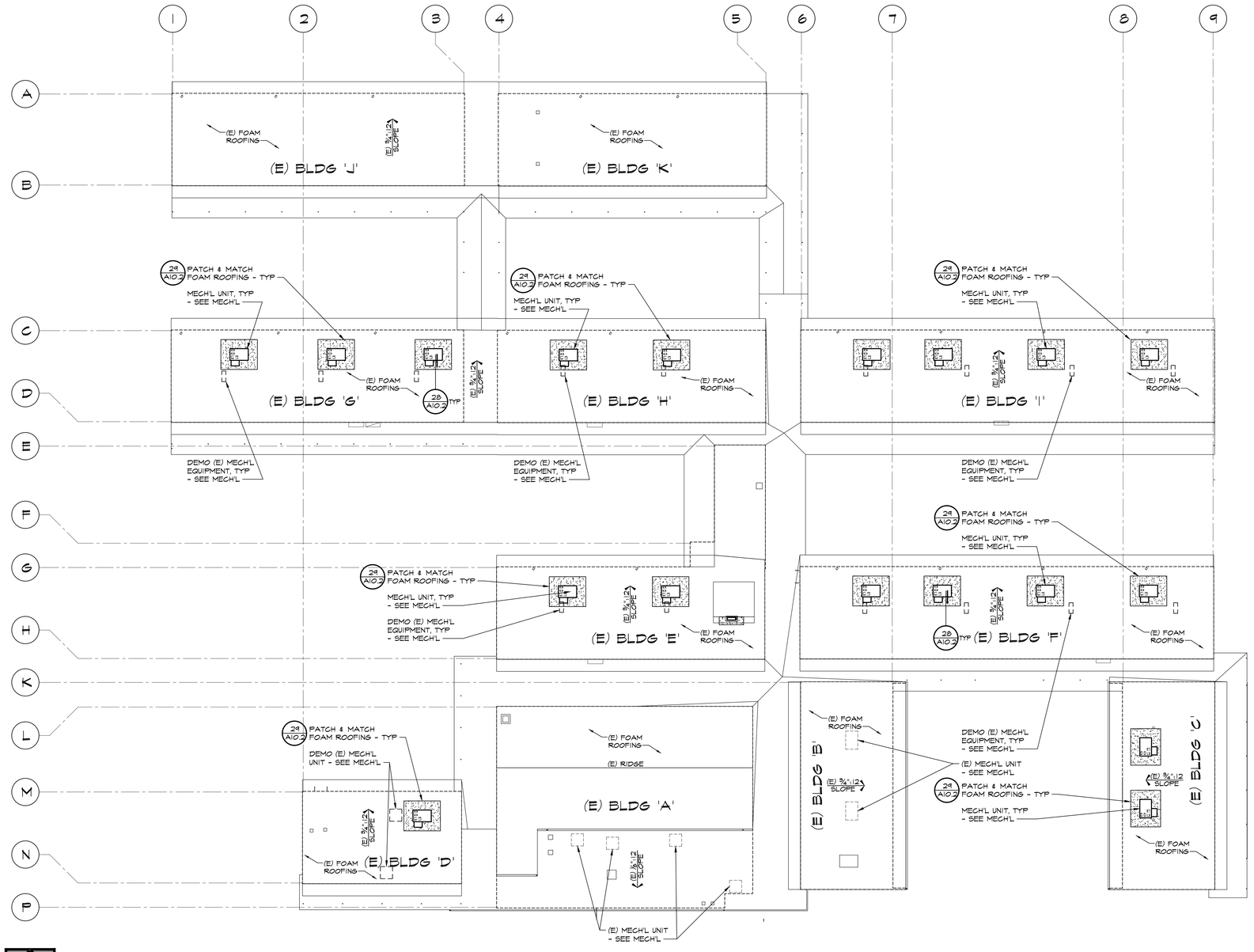
1. RWL & OVERFLOW SHALL BE 3" DIA MIN, CAST IRON PIPE
2. RAINWATER LEADER (RWL) SHALL CONNECT TO STORM DRAIN SEE CIVIL PLAN.
3. CONTRACTOR SHALL INSTALL BLOCKING PER STRUCTURAL PLANS, AS REQUIRED AT ROOF PENETRATIONS
4. CONTRACTOR SHALL INSTALL FLASHING AT ROOF PENETRATIONS, FRAMED CURBS, ETC. PER SPEC, TYP.
5. LEVEL PLATFORM FRAMING SEE STRUCTURAL PLAN
6. SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL INFORMATION FOR WORK INDICATED.

LEGEND:

---------- LINE OF WALL BELOW

(E) ROOF TO REMAIN

PATCH & MATCH (E) FOAM ROOF — 24 / A10.3



PLAN NORTH

ROOF PLAN

SCALE : 1/16" = 1'-0"

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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

ROOF PLAN

MARK	DATE	REVISIONS
1		
2		
3		

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DRAWN : ED, FS
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6.0
19 OF 80 SHEETS

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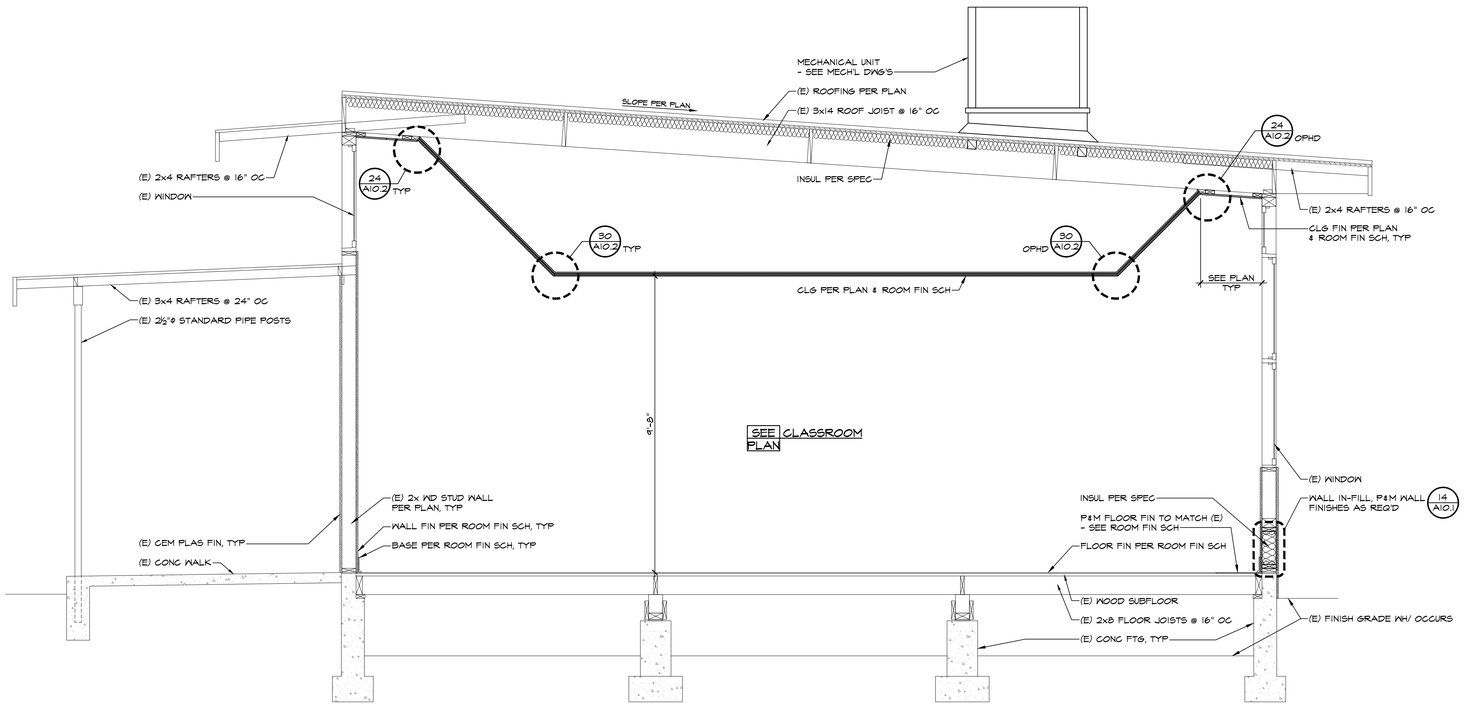

A SECTION
BLDG 'C', 'E', 'F, 'H' & 'I' - TYPICAL CLASSROOM

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

SECTION

MARK	DATE	REVISIONS
1		
2		
3		

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BAKERSFIELD, CA 93309
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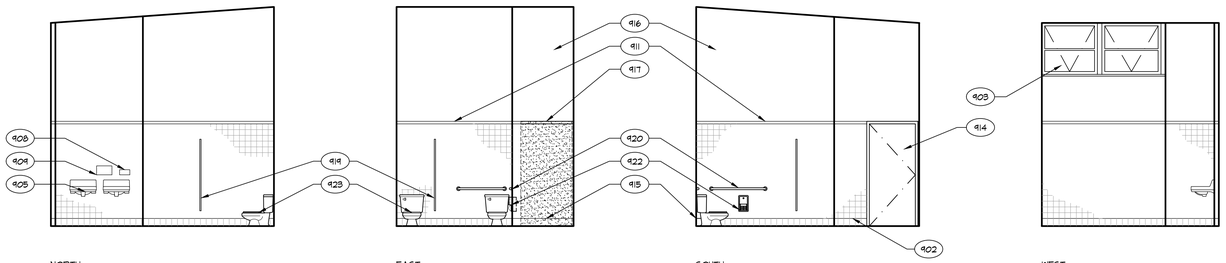
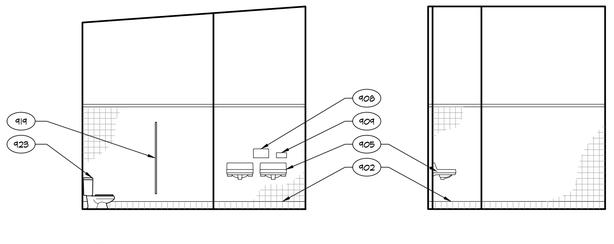
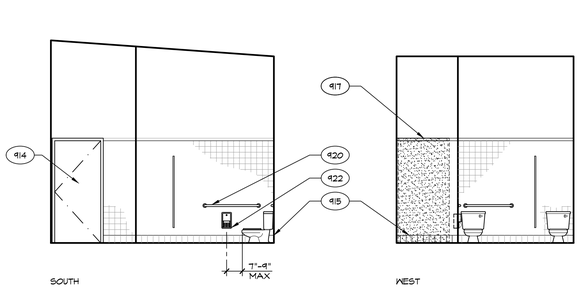
20 OF 80 SHEETS



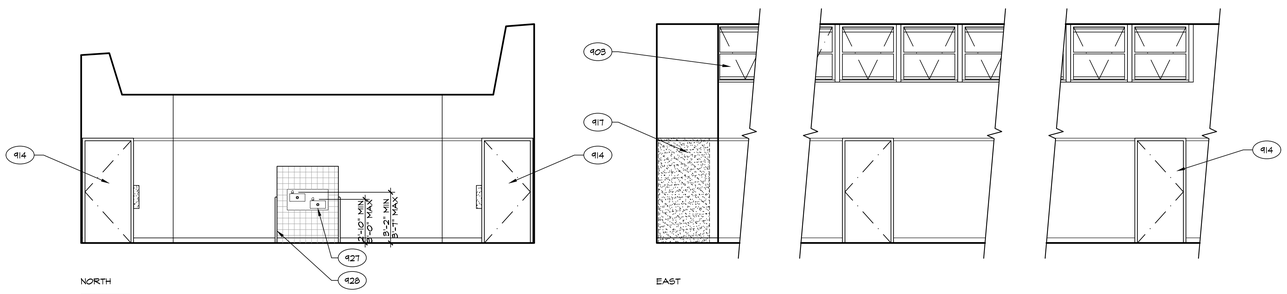
301 BOYS
BLDG 'C'



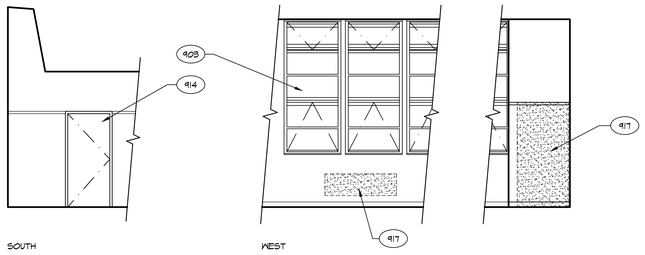
302 GIRLS
BLDG 'C'



302 GIRLS
CONTINUED



303 KINDERGARTEN
BLDG 'C'



303 KINDERGARTEN
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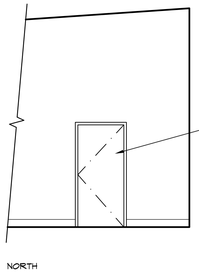
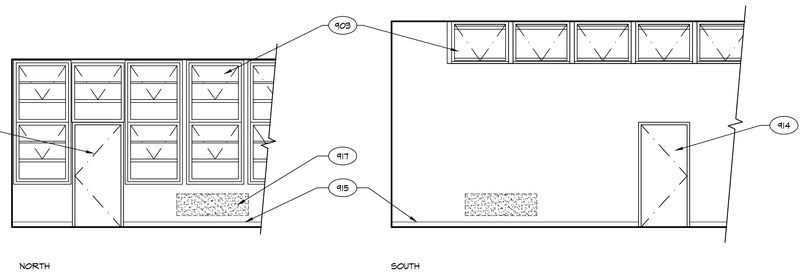


304 STORAGE
BLDG 'C'



401 KINDERGARTEN
BLDG 'D'

KEYNOTES

401	(E) DOOR TO REMAIN	
402	(E) BASE TO REMAIN	
403	(E) WINDOW TO REMAIN	
404	(E) HAND DRYER TO REMAIN	
405	(E) LAVATORY / SINK TO REMAIN	
406	(E) TOILET / URINAL TO REMAIN	
407	(E) GRAB BAR TO REMAIN	
408	(E) SOAP DISPENSER TO REMAIN	
409	(E) PAPER TOWEL DISPENSER TO REMAIN	
410	(E) SOLID TOILET PARTITIONS TO REMAIN	
411	(E) TRIM TO REMAIN	
412	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
413	WINDOW - SEE SCHEDULE	
414	DOOR - SEE SCHEDULE	
415	BASE - SEE SCHEDULE	
416	WALL FINISH - SEE SCHEDULE	
417	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.0
418	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
419	SOLID PLASTIC PARTITIONS	7 A10.0
420	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
421	HAND DRYER PER SPEC	
422	RECESSED TOILET PAPER DISPENSER	10 A10.0
423	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
424	MIRROR - SEE SPECS	
425	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	9 A10.0
426	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
427	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
428	PIPE RAIL PER SPEC	

INTERIOR ELEVATIONS

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

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ARCHITECT SCI inc
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FAX: (661) 397-4378
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LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16788
RENEWAL 11/30/25
STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

INTERIOR ELEVATIONS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN: ED, FS
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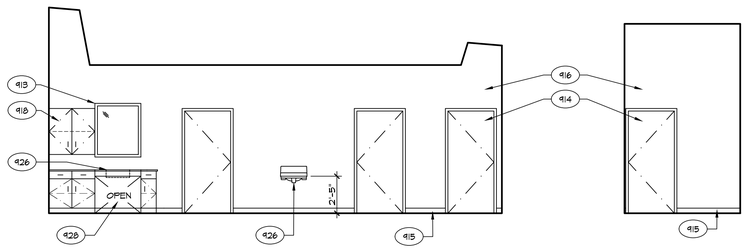
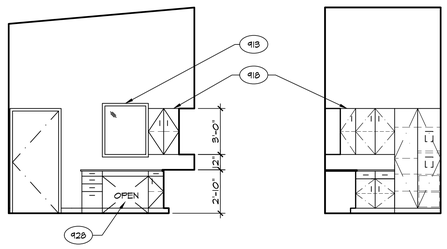
DATE: 11/8/23

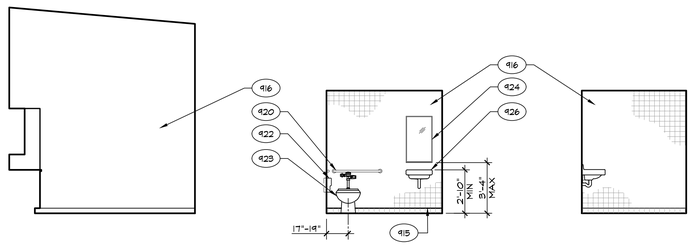
9.0
21 OF 80 SHEETS



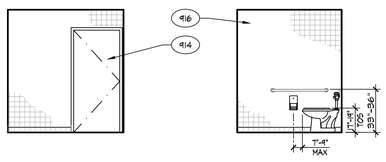
401 KINDERGARTEN
CONTINUED



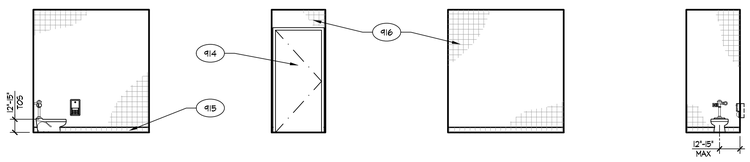
402 OFFICE
BLDG 'D'



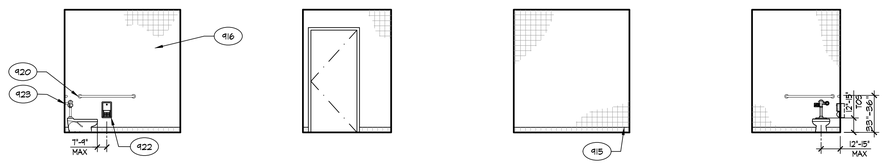
403 TOILET
BLDG 'D'



403 TOILET
BLDG 'D'



404 TOILET
BLDG 'D'



405 TOILET
BLDG 'D'

503 GIRLS
BLDG 'E'

504 UNISEX
BLDG 'E'

803 BOYS
BLDG 'H'

KEYNOTES

901	(E) DOOR TO REMAIN	
902	(E) BASE TO REMAIN	
903	(E) WINDOW TO REMAIN	
904	(E) HAND DRYER TO REMAIN	
905	(E) LAVATORY / SINK TO REMAIN	
906	(E) TOILET / URINAL TO REMAIN	
907	(E) GRAB BAR TO REMAIN	
908	(E) SOAP DISPENSER TO REMAIN	
909	(E) PAPER TOWEL DISPENSER TO REMAIN	
910	(E) SOLID TOILET PARTITIONS TO REMAIN	
911	(E) TRIM TO REMAIN	
912	(E) EXHAUST FAN SPEED CONTROL TO REMAIN	
913	WINDOW - SEE SCHEDULE	
914	DOOR - SEE SCHEDULE	
915	BASE - SEE SCHEDULE	
916	WALL FINISH - SEE SCHEDULE	
917	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	14 A10.0
918	PLAM BASE CABS AND/OR UPPER CABS	20 A10.0
919	SOLID PLASTIC PARTITIONS	7 A10.0
920	GRAB BAR - 48" AT SIDE AND 36" AT BACK	11 A10.0
921	HAND DRYER PER SPEC	
922	RECESSED TOILET PAPER DISPENSER	10 A10.0
923	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1 A10.0
924	MIRROR - SEE SPECS	
925	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	8 A10.0
926	LAVATORY/SINK AND REQUIREMENTS - SEE PLUMBING PLANS	5 A10.0
927	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	23 A10.0
928	KNEE SPACE REQUIREMENTS	9 A10.0

INTERIOR ELEVATIONS

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

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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16780 EXP. 11/30/23 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

INTERIOR ELEVATIONS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
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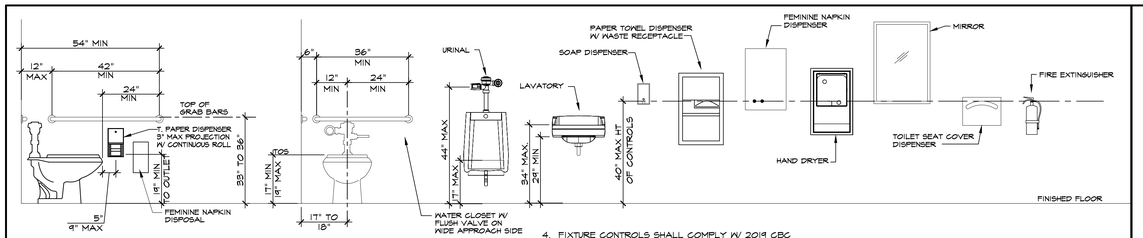
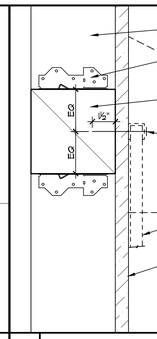
9.1
22 OF 80 SHEETS



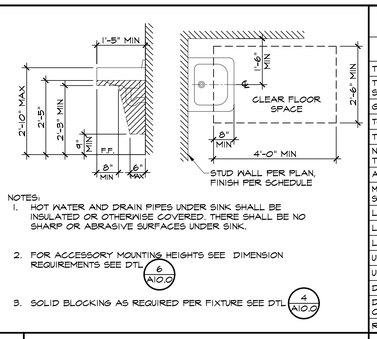
NOTE:

1. FOR ALL ACCESSORIES THAT ARE NIC BLOCKING IS REQUIRED (4 A10.0)
2. WATER CLOSET W/ FLUSH VALVE ON WIDE SIDE OF TOILET STALL.
3. THE FIXTURES AND ACCESSORIES SHOWN HEREIN ARE NOT NECESSARILY INCLUDED IN THIS PROJECT. REFER TO PLANS AND SPECIFICATIONS FOR FIXTURE OR ACCESSORY TYPE AND LOCATIONS.
4. FIXTURE CONTROLS SHALL COMPLY W/ 2019 CBC AS FOLLOWS ;
   LAVATORIES = 11B-309 AND 11B-606.4
   WATER CLOSETS = 11B-604.9.5
   URINALS = 11B-605.4
5. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECT BELOW AND AT THE ENDS SHALL BE 1½" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.

1 TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS — SCALE: ½" = 1'-0"



4 ACCESSORY MOUNTING — SCALE: 3" = 1'-0"

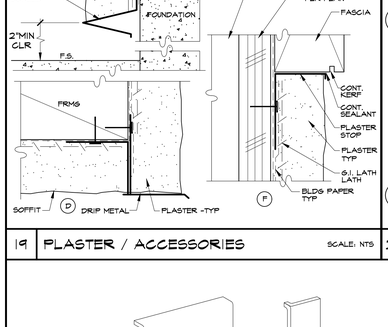


NOTES:
1. HOT WATER AND DRAIN PIPES UNDER SINK SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINK.
2. FOR ACCESSORY MOUNTING HEIGHTS SEE DIMENSION REQUIREMENTS SEE DTL (6 A10.0)
3. SOLID BLOCKING AS REQUIRED PER FIXTURE SEE DTL (4 A10.0)

5 LAVATORY REQUIREMENTS — SCALE: ½" = 1'-0"

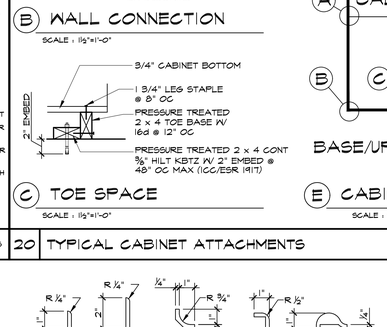
DESCRIPTION	SUGGESTED ELEMENTARY DIMENSION		
	AGES 5-8 (INCHES)	AGES 9-12 (INCHES)	ADULT (INCHES)
TOILET CENTERING FROM WALL	12"-15"	15-18"	17-18"
TOILET SEAT HEIGHT F.F. TO TOP OF SEAT	12"-15"	15-17"	17"-19"
GRAB BAR HEIGHT	20"-25"	25-27"	33"-36"
TOILET PAPER IN FRONT OF TOILET	7"-9" MAX		
TOILET PAPER DISPENSER HEIGHT	14"-17"	17"-19"	19" MIN
NAPKIN DISPOSAL IN FRONT OF TOILET	N/A	12" MAX	12" MAX
ACCESSORIES, DISPENSER CONTROLS	32" MAX	36" MAX	40" MAX
MAX. HT. OF MIRROR'S BOT. REFLECTIVE SURFACE ABOVE FINISH FLOOR	32"	32"	35" WALL MTD 40" @ COUNTER
LAVATORY/SINK TOP HEIGHT	31 "MAX	31 "MAX	34" MAX
LAVATORY/SINK KNEE CLEARANCE	24 "MIN	24 "MIN	27" MIN
LAVATORY/SINK DEPTH	4 1/2" MAX	6 1/2" MAX	6 1/2" MAX
URINAL LIP HEIGHT	17" MAX		
URINAL FLUSH HANDLE HEIGHT	32"MAX	37" MAX	44" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	30"MAX	30"MAX	36" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	24 "MIN	24 "MIN	27" MIN
RAMP/STAIR HANDRAIL HEIGHT	28" MAX	28" MAX	34"-38" MAX

6 DIMENSION REQUIREMENTS — SCALE: NTS



PLAN

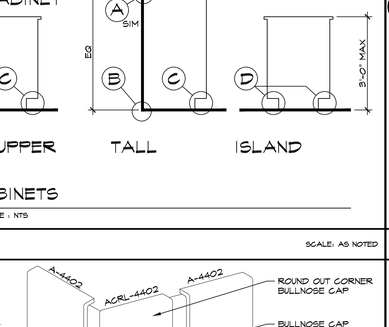
7 TOILET PARTITION — SCALE: 3" = 1'-0"



NOTE:
BLOCKING AS REQUIRED (4 A10.0)
FOR ACCESSORY MOUNTING HTS SEE DIMENSION REQUIREMENTS (6 A10.0)

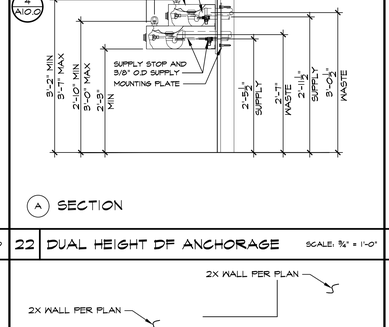
8 URINAL REQUIREMENTS — SCALE: ½" = 1'-0"

NOTE:
FAUCET CONTROLS AND OPENING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND SELF-CLOSING VALVES TO REMAIN OPEN FOR AT LEAST TEN SECONDS. SINKS SHALL NOT EXCEED 6½" IN DEPTH PER 2019 CBC 11B-606.7

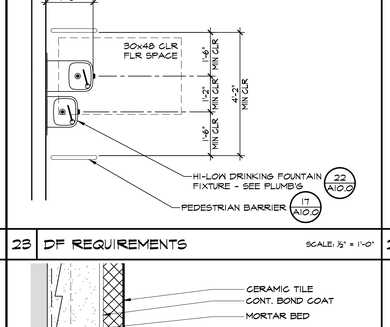


SECTION AA

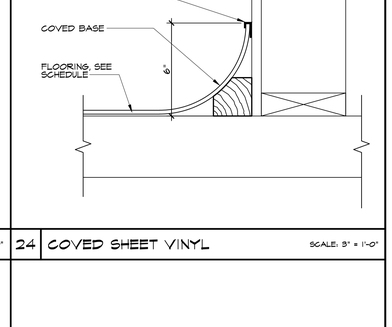
9 KNEE SPACE REQUIREMENTS — SCALE: ½" = 1'-0"



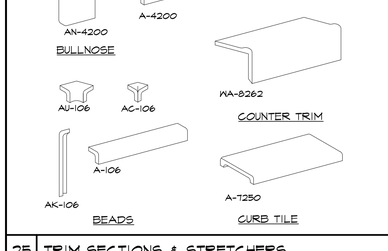
10 TP DISPENSER DETAIL — SCALE: 3" = 1'-0"



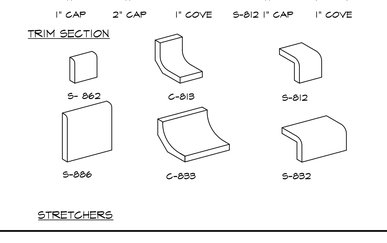
11 GRAB BAR MOUNTING — SCALE: 6" = 1'-0"



12 SIGN ATTACHMENT — SCALE: 1 1/2" = 1'-0"



19 PLASTER / ACCESSORIES — SCALE: NTS



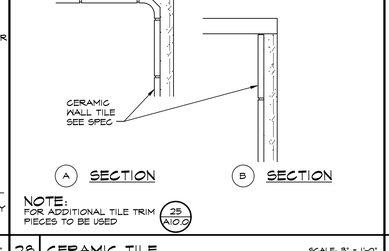
ADDITIONAL NOTES:

CABINET ANCHORAGE

- VERTICAL LOAD REQUIREMENT PER: TABLE 1607.1 A.1 CB (PART 2 VOLUME 2, TITLE 24 CCR)
- LATERAL LOAD REQUIREMENT PER: ACE 7-10 CHAPTER 13, TABLE 13.5-1

A WALL CONNECTION — SCALE: 1½"=1'-0"
D BASE CONNECTION — SCALE: 1½"=1'-0"
B WALL CONNECTION — SCALE: 1½"=1'-0"
C TOE SPACE — SCALE: 1½"=1'-0"
E CABINETS — SCALE: NTS

20 TYPICAL CABINET ATTACHMENTS — SCALE: AS NOTED



B MOUNTING PLATE — SCALE: NTS

A SECTION

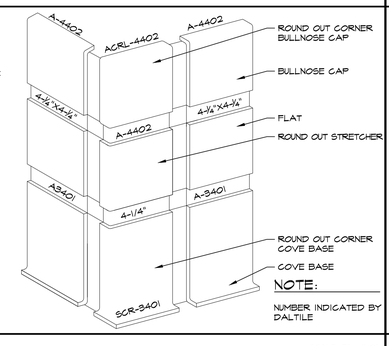
22 DUAL HEIGHT DF ANCHORAGE — SCALE: ¾" = 1'-0"

17 PEDESTRIAN BARRIER — SCALE: ¾" = 1'-0"

18 FIRE EXTINGUISHER MOUNTING — SCALE: ½" = 1'-0"

23 DF REQUIREMENTS — SCALE: ½" = 1'-0"

24 COVED SHEET VINYL — SCALE: 3" = 1'-0"



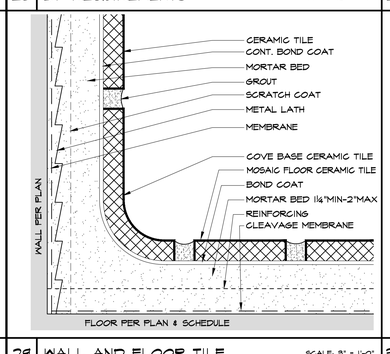
NOTE:
NUMBER INDICATED BY DALTILE

25 TRIM SECTIONS & STRETCHERS — SCALE: 3" = 1'-0"

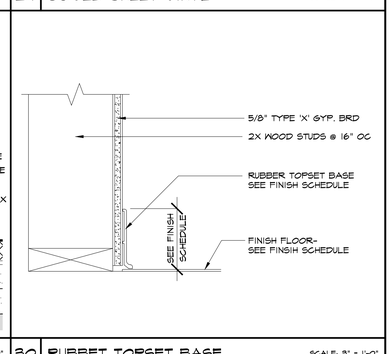
A SECTION — B SECTION

NOTE:
FOR ADDITIONAL TILE TRIM PIECES TO BE USED (25 A10.0)

28 CERAMIC TILE — SCALE: 3" = 1'-0"



29 WALL AND FLOOR TILE — SCALE: 3" = 1'-0"



30 RUBBET TOPSET BASE — SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCI Inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16758 REN. 11/30/25 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

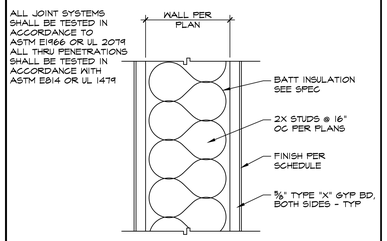
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DETAILS

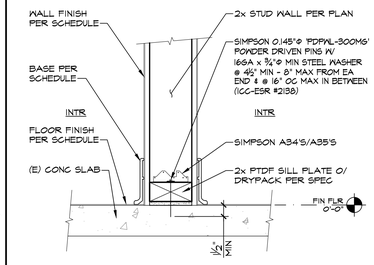
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : ED, FS
CHECKED : BCW
DATE : 11/8/23

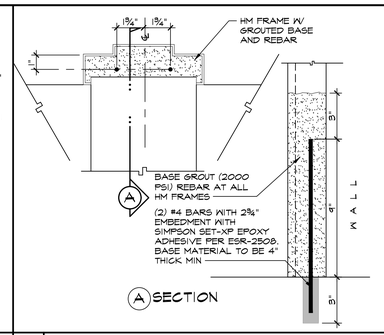
10.0
23 OF 80 SHEETS



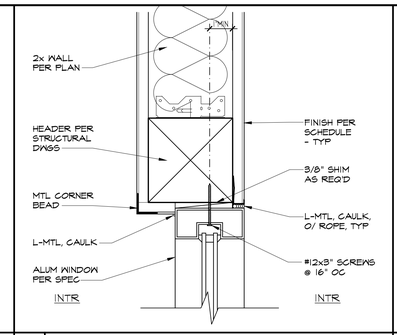
1 WALL ASSEMBLY SCALE: 3" = 1'-0"



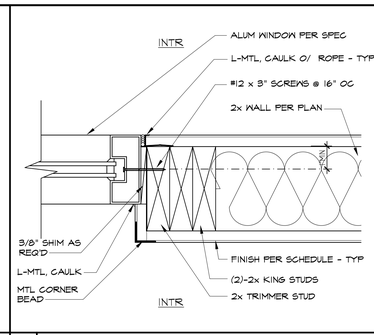
2 INTR NON-BEARING STUD WALL SCALE: ½" = 1'-0"



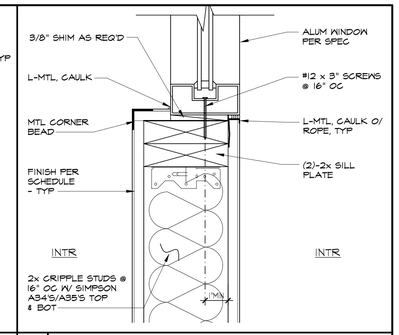
3 GROUTED HM JAMB SCALE: 3" = 1'-0"



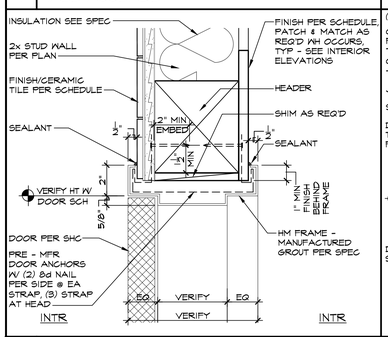
4 FIXED INT WINDOW HEAD SCALE: 3" = 1'-0"



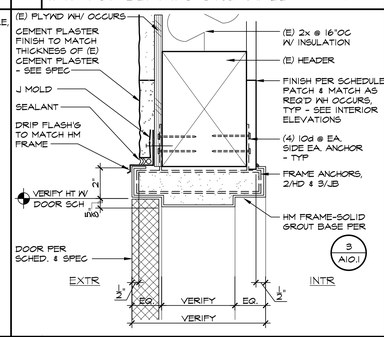
5 FIXED INT WINDOW JAMB SCALE: 3" = 1'-0"



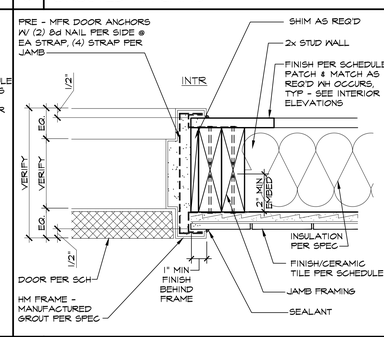
6 FIXED INT WINDOW SILL SCALE: 3" = 1'-0"



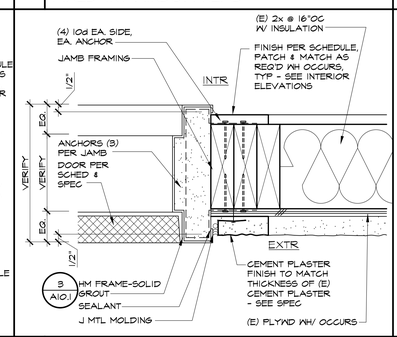
7 HM DOOR HEAD SCALE: 3" = 1'-0"



8 HM DOOR HEAD SCALE: 3" = 1'-0"



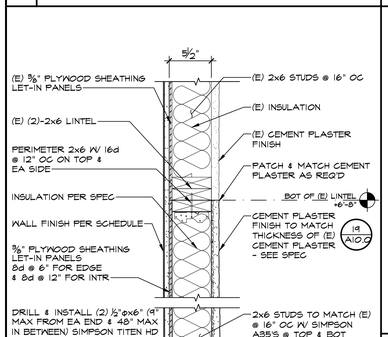
9 HM DOOR JAMB SCALE: 3" = 1'-0"



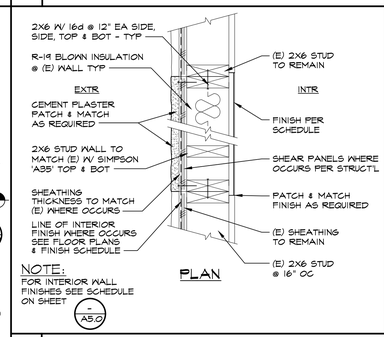
10 HM DOOR JAMB SCALE: 3" = 1'-0"

11 NOT USED SCALE:

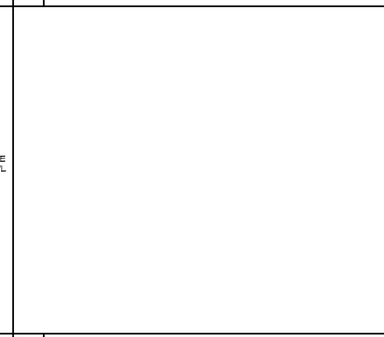
12 NOT USED SCALE:



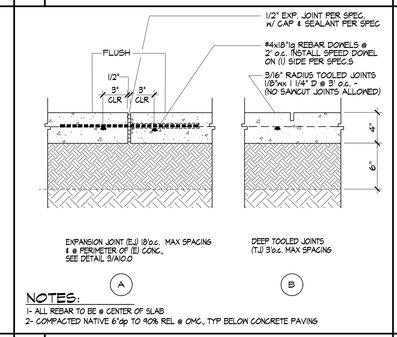
25 CONC WALK TO (E) AC PAVING SCALE: 1 1/2"=1'-0"



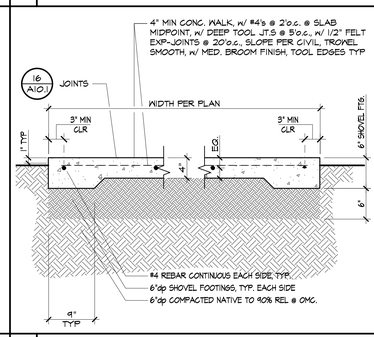
26 SAW CUT FOR CONDUIT @ (E) SLAB SCALE: 1 ½" = 1'-0"



27 CONC WALK @ (E) CONC FTG SCALE: 1" = 1'-0"

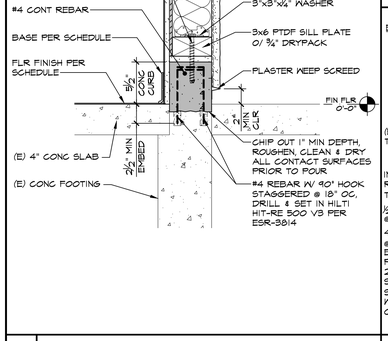


16 TYP CONCRETE JOINTS SCALE: 1 1/2"=1'-0"

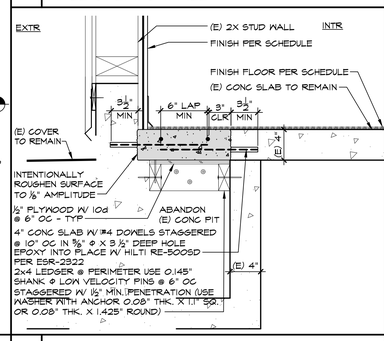


17 CONCRETE WALK SCALE: 1" = 1'-0"

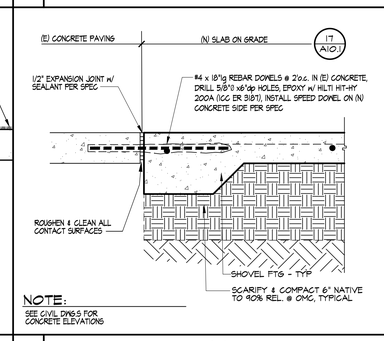
18 NOT USED SCALE:



19 EXT. STUD WALL IN-FILL SCALE: ½" = 1'-0"

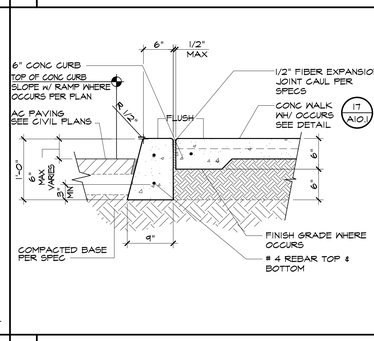


20 FLOOR INFILL @ PIT SCALE: 1½"=1'-0"

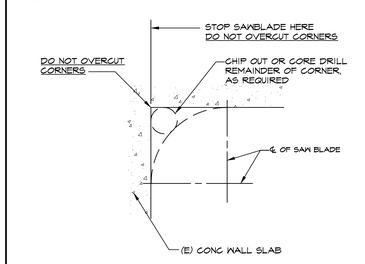


21 CONCRETE WALK @ (E) CONC. SCALE: 1½"=1'-0"

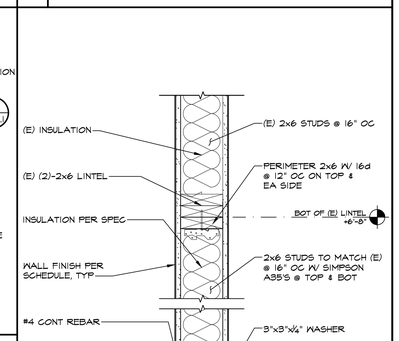
22 STEEL FENCE POST DETAIL SCALE: 1"=1'-0"



23 CONC. CURB TO CONC. WALK SCALE: 1" = 1'-0"



29 SAW-CUTTING SCALE: NTS



30 INT. STUD WALL IN-FILL SCALE: ½" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 EXP. 8-31-2025 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT

DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN: ED, FS
CHECKED: BCW
DATE: 11/8/23

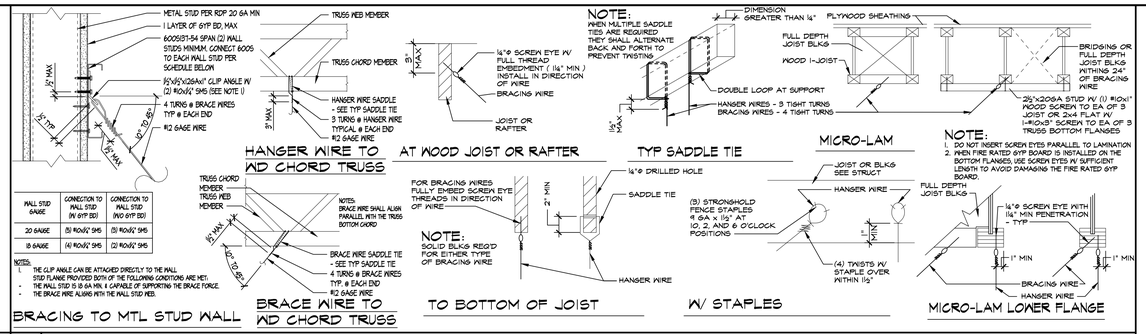
10.1
24 OF 80 SHEETS

1 NOT USED SCALE:

2 NOT USED SCALE:

3 SPLAY HANGER WIRE

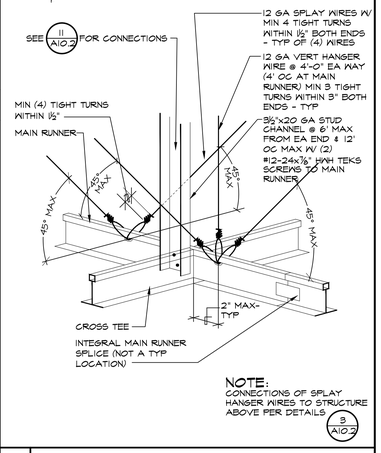
SCALE: NTS



BRACING TO MTL STUD WALL

ALLOWABLE SPAN FOR VERTICAL C-BRACE	
COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH "H"
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-10"
250S137-43	8'-10"
400S137-43	10'-10"

NOTES:
1. MIN Fy = 33 KSI
2. WHEN USING BRACE, DO NOT SPLICE
3. $\frac{H}{r}$ >200 FOR COMPRESSION STRUTS, SEE TABLE ABOVE

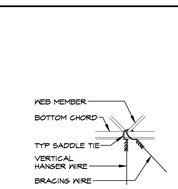


7 NOT USED SCALE:

8 NOT USED SCALE:

9 WIRE CONNECTION

SCALE: NTS

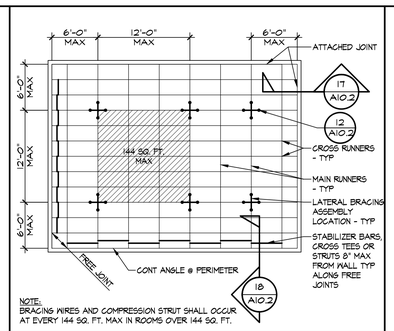


NOTE:
1. BRACE WIRES PARALLEL TO JOIST
2. BRACE WIRES CAN NOT BE PERPENDICULAR TO JOIST

AT OPEN-WEB STEEL JOIST

10 TYP CEILING PLAN FOR 12'-0"x12'-0" BRACE ASSEMBLY SPACING

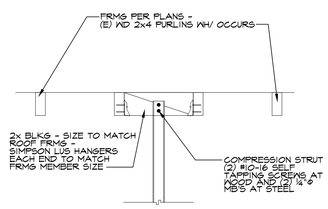
SCALE: ⅛" = 1'-0"



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

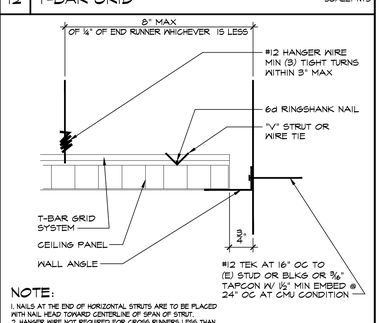
11 STUD CHANNEL TO ROOF FRMG

SCALE: 3"=1'-0"



12 T-BAR GRID

SCALE: NTS



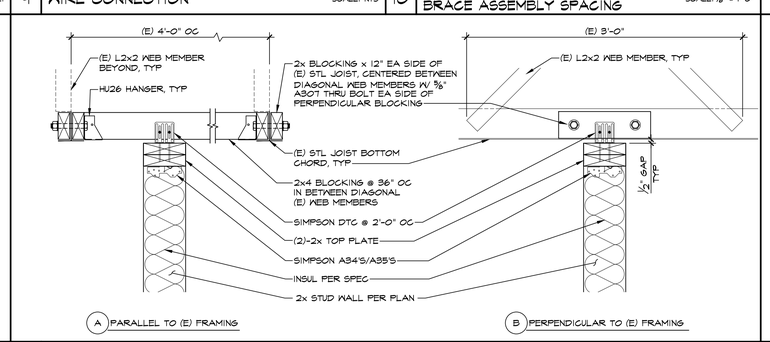
13 NOT USED SCALE:

14 DEPRESS SLAB @ (E) EXT WALL FTG

SCALE: ½" = 1'-0"

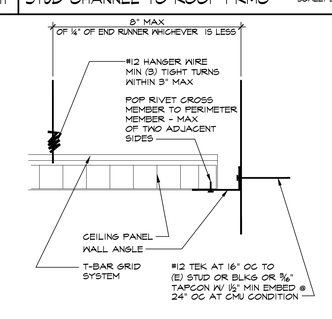
15 INTR NON-BEARING STUD WALL

SCALE: ½" = 1'-0"



17 T-BAR FIXED END

SCALE: NTS



18 T-BAR FREE END

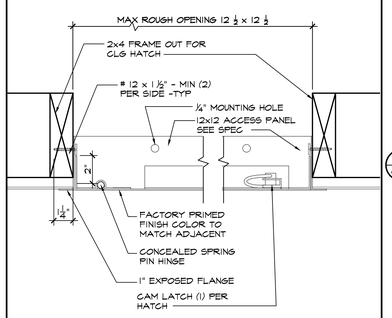
SCALE: NTS

NOTE:
1. NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.
2. HANGER WIRE NOT REQUIRED FOR CROSS RUNNERS LESS THAN 8' LONG BETWEEN MAIN RUNNER AND WALL.

19 NOT USED SCALE:

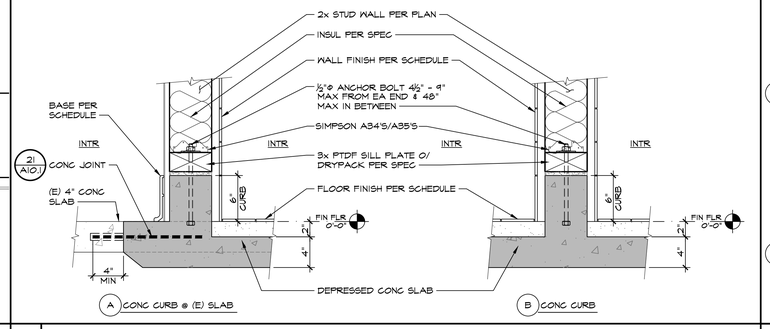
20 ATTIC ACCESS PANEL

SCALE: NTS



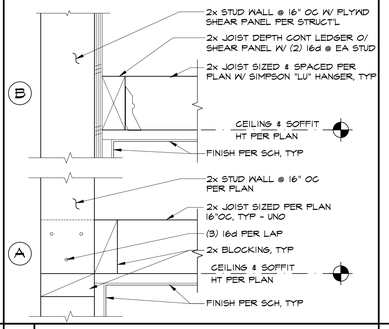
21 INT NON-BEARING STUD WALL

SCALE: ½" = 1'-0"



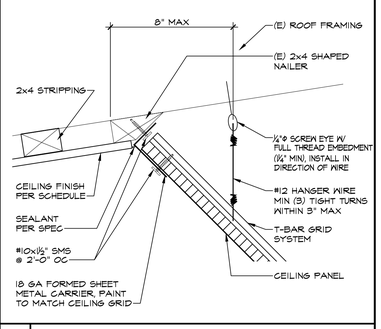
23 LEDGER TO STUD WALL

SCALE: 3" = 1'-0"



24 45° ANGLE T-BAR

SCALE: 3" = 1'-0"



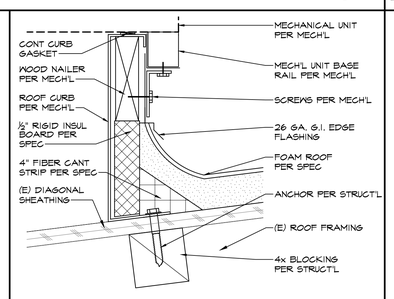
25 NOT USED SCALE:

26 NOT USED SCALE:

27 NOT USED SCALE:

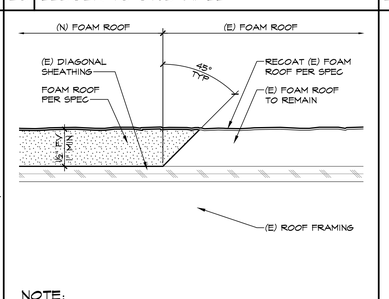
28 ROOF CURB

SCALE: 3" = 1'-0"



29 FOAM ROOF PATCH

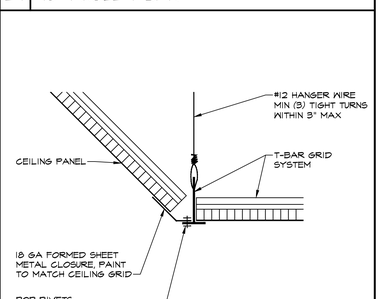
SCALE: 3" = 1'-0"



NOTE:
FOAM ROOF THICKNESS SHALL MATCH (E) FOAM ROOF THICKNESS SEE SPEC

30 45° ANGLE T-BAR

SCALE: 3" = 1'-0"



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STATE OF CALIFORNIA RE No. C-16782 EXPIRATION DATE 12/31/2023
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT Where The Child Comes First

DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN: AGV
CHECKED: BCW
DATE: 11/8/23

10.2
25 OF 80 SHEETS

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	JST	JOIST
ABV	ABOVE	JT	JOINT
ADDL	ADDITIONAL		
ALT	ALTERNATE	KSI	KIP PER SQUARE INCH
ANCH	ANCHOR		
&	AND	LBS	POUNDS
ARCH	ARCHITECT(URAL)	LLBB	LONG LEG BACK-BACK
@	AT	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
BF	BRACE FRAME	LONG	LONGITUDINAL
BLDG	BUILDING	LT WT	LIGHT WEIGHT
BLK	BLOCK	LVL	LAMINATED VENEER (LUMBER)
BLKG	BLOCKING	LVL	LEVEL (FLOOR)
BEL	BELOW		
BM	BEAM	MAX	MAXIMUM
BN	BOUNDARY NAILING	MB	MACHINE BOLT
B or BOT	BOTTOM	MECH	MECHANICAL
BRG	BEARING	MEZZ	MEZZANINE
BTWN	BETWEEN	MFR	MANUFACTURER
BU	BUILT-UP	MIN	MINIMUM
BUB	BACK-UP BAR	MISC	MISCELLANEOUS
		MTL	METAL
CAMB(C)	CAMBER(ED)	MS	MIDDLE STRIP
CBC	CALIFORNIA BUILDING CODE		
CG	CENTER OF GRAVITY	(N)	NEW
CIP	CAST IN PLACE	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT	NO (#)	NUMBER
	OR CONTROL JOINT	NS	NEAR SIDE
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL(IR)	CENTERLINE	NORM WT	NORMAL WEIGHT
CLG	CEILING		
CLR	CLEAR	OC	ON CENTER (NOT NECESSARY)
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OF	OUTSIDE FACE
CONC	CONCRETE	OH	OPPOSITE HAND
CONN	CONNECTION	O-O	OUT TO OUT
CONT	CONTINUOUS	OPNG	OPENING
CS	COLUMN STRIP		
CRC	COLD ROLLED CHANNEL	PARA	PARALLEL
CTR	CENTER(ED)	P/C	PRECAST
CTRSK	COUNTERSINK	PERP	PERPENDICULAR
C-C	CENTER TO CENTER	PJP	PARTIAL JOINT PENETRATION
		PL.(IP)	PLATE
d	PENNEY(NAILS)	PLY	PLYWOOD
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DF	DOUGLAS FIR	PT	PRESSURE TREATED
DIA(Ø)	DIAMETER	P/T	POSTTENSIONED(PRESTRESSED)
DIAG	DIAGONAL		
DIM	DIMENSION	RAD (R)	RADIUS
DN	DOWN	REF	REFERENCE
DO	DITTO (REPEAT)	REQ'D	REQUIRED
DP	DEEP	REINF	REINFORCEMENT(ING)
DWG	DRAWING	RJ	ROOF JOIST
DWL	DOWELS		
		SC	SLIP CRITICAL
EA	EACH	SEP	SEPARATION
EBF	ECCENTRIC BRACE FRAME	SCHED	SCHEDULE
EF	EACH FACE	SFRS	SEISMIC FORCE RESISTING SYSTEM
EJ	EXPANSION JOINT	SIM	SIMILAR
ELEC	ELECTRICAL	SIMP	SIMPSON
ELEV	ELEVATION/ELEVATOR	SHT	SHEET
EMBED	EMBEDMENT	SHTG	SHEATHING
EN	EDGE NAILING	SLBB	SHORT LEB BACH-BACK
EQ	EQUAL	SLV	SHORT LEB VERTICAL
EQUIP	EQUIPMENT	SMS	SHEET METAL SCREWS
ES	SIDE EACH	SOG	SLAB ON GRADE
EW	EACH WAY	SPECS	SPECIFICATIONS
EXIST(E)	EXISTING	SP	SPACE (S)
EXP	EXPANSION	SQ	SQUARE
EXT	EXTERIOR	SSC	SINGLE SHEAR CONNECTION
		STAGG	STAGGER(ED)
FIN	FINISH(ED)	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FDN	FOUNDATION	STIFF	STIFFENER
FLG	FLANGE	STL	STEEL
FN	FIELD NAILING	STRUC	STRUCTURAL
FOB	FACE OF BLOCK OR BRICK	SYMM	SYMMETRICAL
FOC	FACE OF CONCRETE		
FO PLY	FACE OF PLYWOOD	T & B	TOP AND BOTTOM
FOS	FACE OF STUDS	T & G	TONGUE AND GROOVE
FMG	FRAMING	TEMP	TEMPORARY
FS	FAR SIDE	THK	THICK(NESS)
FT	FOOT	THRD	THREADED
FTG	FOOTING	THRU	THROUGH
		TP	TOP OF PARAPET
GA	GAGE	T PLY	TOP OF PLYWOOD
GALV	GALVANIZED	TRANS	TRANSVERSE
GB	GRADE BEAM	TOC	TOP OF CONCRETE
GL	GRID LINE	TOS	TOP OF STEEL
GLB	GLUE-LAMINATED BEAM	TSG	TAPERED STEEL GIRDER
		TOW	TOP OF WALL
HCA	HEADED CONCRETE ANCHOR	TYP	TYPICAL
HD	HOLD DOWN		
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER		
HORIZ	HORIZONTAL	VERT	VERTICAL
HSB	HIGH STRENGTH BOLT		
HS	HIGH STRENGTH	W/	WITH
HT	HEIGHT	WBS	WELDED BEAM SEAT
		WD	WOOD
IBC	INTERNATIONAL BUILDING CODE	WP	WORK POINT
ID	INSIDE DIAMETER	WPJ	WEAKENED PLANE JOINT
IF	INSIDE FACE	WS	WELDED STUDS
IN	INCH	WT	WEIGHT
INFO	INFORMATION	WWF	WELDED WIRE FABRIC
INT	INTERIOR		

LUMBER

1. UNLESS NOTED OTHERWISE, LUMBER SHALL BE DOUGLAS FIR-LARCH, GRADE MARKED, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION.
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, LUMBER GRADES SHALL BE AS FOLLOWS:

BEAMS	SELECT STRUCTURAL.
JOISTS AND RAFTERS	No 1
ALL OTHER HORIZONTAL MEMBERS	No 1

3. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR AND SHALL COMPLY WITH THE LATEST EDITION OF U.S. PRODUCT STANDARD PS 1. GRADES SHALL BE MARKED STRUCTURAL 1 BY APA AND BONDED WITH EXTERIOR GLUE UNLESS NOTED OTHERWISE. REFER TO PLANS AND DETAILS FOR THICKNESS. ALL PLYWOOD SHEATHING SHALL BE BLOCKED AT UNSUPPORTED EDGES
4. NAILS SHALL BE COMMON WIRE NAILS AND SHALL CONFORM TO ASTM F1667. UNLESS NOTED OTHERWISE ON THE PLANS, NAILING SHALL COMPLY AS A MINIMUM WITH NAILING AND FASTENING SCHEDULES PRESCRIBED BY THE GOVERNING BUILDING CODE.
5. CONNECTOR REFERENCES, UNLESS NOTED OTHERWISE ARE FROM THE LATEST EDITION OF "SIMPSON STRONG-TIE" CATALOG. APPROVED EQUALS SHALL HAVE MATCHING ICC-ES RATINGS AND USED WITH PRIOR APPROVAL OF THE ARCHITECT OR STRUCTURE ENGINEER.
   A. WHERE MORE THAN ONE TYPE OF FASTENER IN THE REFERENCE SERIES IS SCHEDULED FOR A JOIST OR RAFTER, THE CONTRACTOR SHALL SUPPLY THE FASTENER WITH THE GREATEST CAPACITY.
   B. WHERE THERE ARE A NUMBER OF NAILING ALTERNATIVES LISTED IN THE MANUFACTURER'S CATALOG FOR A PARTICULAR CONNECTOR, THE NAILING ALTERNATIVE PROVIDING THE HIGHEST LOAD CAPACITY SHALL BE USED UNLESS NOTED OTHERWISE.
   C. ALL NAIL HOLES IN THE CONNECTOR SHALL BE FILLED WITH PROPER NAILS UNLESS NOTED OTHERWISE ELSEWHERE. (INCLUDING TRIANGULAR HOLES IN "HU" HANGERS.
6. FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED LUMBER SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL AND SHALL COMPLY WITH SECTION 2304.9.5 OF THE CALIFORNIA BUILDING CODE.
7. FASTENERS AND HARDWARE EXPOSED TO WEATHER SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL AND SHALL COMPLY WITH ASTM 153.
8. SCREWS AND LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.6.1. PREDRILLED SCREW HOLES SHALL BE 2/3 THE SCREW NOMINAL DIAMETER. MINIMUM SCREW YIELD STRENGTH SHALL BE AS FOLLOWS:

SCREW NOMINAL DIAMETER	YIELD STRENGTH (F_{YB})
¼"	70,000 PSI
5/16"	60,000 PSI
⅜ AND GREATER	45,000 PSI

9. BOLTS:
   A. ALL BOLTS SHALL CONFORM TO ASTM A307, GRADE A.
   B. ALL ANCHOR RODS (ANCHOR BOLTS) SHALL CONFORM TO ASTM F1554, GRADE 36.
   C. BOLT HOLES SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER.
   D. ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT STEEL WASHERS MEETING THE REQUIREMENTS OF ANSI/ASME B18.22.1 UNDER BOLT HEADS AND NUTS.
   E. RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
11. JOISTS OR RAFTERS FRAMING FROM OPPOSITE SIDES OF BEAMS OR WALLS SHALL HAVE A LAP OF 4" OR MORE AND BE SPLICED WITH 4-16d NAILS AS A MINIMUM, UNLESS NOTED OTHERWISE.
12. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE DRILLED HOLES OF 2/3 THE SHANK DIAMETER.
13. PROVIDE FULL BEARING AT END OF ALL BLOCKING, U.N.O.

GENERAL CONTINUED

19. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT SPECIFIED ON THIS SET OF DRAWINGS. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH OR WHERE OVERLOAD IS ANTICIPATED.
20. STRUCTURAL OBSERVATIONS PERFORMED BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION ARE NOT THE REQUIRED CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR. OBSERVATIONS ALSO DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.
21. CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS AND SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE OWNER'S REPRESENTATIVE.
22. ARCHITECTS / ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM CONTRACT DOCUMENTS.
23. SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION WITH RELEVANT PORTION OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS IF REQUIRED AND WHERE DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.
24. ALLOW SEVEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS OTHER THAN STRUCTURAL STEEL & DESIGN-BUILD ITEMS AFTER RECEIPT BY THE STRUCTURAL ENGINEER. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING STRUCTURAL STEEL & DESIGN-BUILD ITEMS SHOP DRAWINGS. SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED A MAXIMUM OF TWO TIMES.
25. THE LATERAL SYSTEM OF THE STRUCTURE IS DESIGNED WITH LATERAL RESTRAINT AT THE GROUND FLOOR. STRUCTURAL FRAMES ARE NOT LATERALLY SELF SUPPORTING UNTIL THE ENTIRE DESIGN LATERAL RESTRAINT FLOOR AND STRUCTURAL WALLS BELOW ARE IN PLACE.
26. DO NOT SPLICE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF DRAWINGS. DO NOT PLACE OPENINGS, POCKETS, ETC. IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER IF DRAWINGS BY OTHERS REQUIRE MODIFICATIONS TO STRUCTURAL MEMBERS AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
27. DESIGN LOADS:
   A. DEAD LOADS: CONSIST OF BUILDING SELF-WEIGHT PLUS SUPERIMPOSED DEAD LOADS. REFER TO COMPLETE SET OF DRAWINGS FOR DETERMINING DEAD LOADS.
   B. LIVE LOADS:

AREA	DESIGN LIVE LOAD	REMARK
ROOF	20 PSF	REDUCIBLE

   C. SEISMIC DESIGN LOADS:

SEISMIC IMPORTANCE FACTOR I_p	= 1.0
RISK CATEGORY	= III
a_p	= 2.5
R_p	= 6
Ω_O	= 2
SITE CLASS	= D (DEFAULT)
S_{DS}	= 0.74
SEISMIC DESIGN CATEGORY	= D

   D. WIND DESIGN LOADS:

ULTIMATE DESIGN WIND SPEED	= 101 MPH
RISK CATEGORY	= III
WIND EXPOSURE	= C
INTERNAL PRESSURE COEFFICIENT	= 0.18 FOR ENCLOSED STRUCTURE

INSPECTION / TESTING

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS SHALL BE RETAINED BY THE OWNER TO PERFORM THE TESTS AND INSPECTION AS REQUIRED BY SECTION 1704 OF THE CALIFORNIA BUILDING CODE. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE SPECIAL INSPECTOR TO THE SITE OR FABRICATION SHOPS AND SHALL FURNISH SAMPLES OF MATERIALS FOR TESTING AS REQUESTED BY THE TESTING AGENCY AND THE GOVERNING CODE.
2. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
3. PROVIDE CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ITEMS NOTED IN "DSA-103: TEST AND INSPECTIONS FORM", AS REQUIRED PER THE CHAPTER 17A OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE AMENDMENTS, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
4. SPECIAL INSPECTIONS MAY NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL OR GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
5. APPROVAL BY THE INSPECTOR OF MATTERS NOT SPECIFICALLY CONSTRUCTED PER THE APPROVED DRAWINGS DOES NOT MEAN THE FAILURE TO COMPLY WITH THE CONSTRUCTION DOCUMENTS HAS BEEN ACCEPTED. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
6. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER WITHIN SEVEN DAYS OF WHEN THE INSPECTION WAS MADE OR WHEN THE TESTING WAS PERFORMED.
7. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY INSPECTION OR TESTING WHICH DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
3. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. DRAWINGS SHALL NOT BE SCALED.
4. DETAILS IN SHEETS TITLED 'TYPICAL DETAILS', TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT SPECIFICALLY REFERENCED WHERE THEY OCCUR.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS AND THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE PROJECT SPECIFICATIONS THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK.
6. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING:

   CALIFORNIA BUILDING CODE, 2019 EDITION

   AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING BUT NOT LIMITED TO CALOSHA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.
7. SPECIFICATIONS, CODES, AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS SHALL COMPLY WITH ASTM REFERENCED STANDARDS LATEST EDITION.
8. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED.
9. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS.
   B. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. EXTERIOR WALL SYSTEM.
   E. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS.
   F. STAIR FRAMING AND DETAILS.
   G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO THE STRUCTURE.
   D. ANCHOR BOLTS FOR EQUIPMENT MOUNTS.
   E. SIZE, WEIGHT, AND LOCATION OF MACHINE AND EQUIPMENT BASES.
11. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER OF RECORD WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
12. STAIR FRAMING, HANDRAILS, CLADDING SYSTEMS, METAL STUD FRAMING, MEP EQUIPMENT AND PIPING, ANCHORAGE/BRACING AND ANY OTHER DESIGN-BUILD ELEMENTS, WHEN NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SHALL BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR AND MAY BE SUPPORTED BY THE PRIMARY STRUCTURE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCILLARY MEMBERS INCLUDING BUT NOT LIMITED TO BEAMS, COLUMNS, POSTS, FOOTINGS, STIFFENERS, GUSSETS, KICKERS, BRACES, ETC., AND THE ATTENDANT CONNECTIONS, AS REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD, TO SUPPORT LOADS IMPOSED BY THE STAIR FRAMING AND DESIGN-BUILD ELEMENTS ON THE PRIMARY STRUCTURE. DESIGN AND DETAILING OF THESE ELEMENTS SHALL BE DEVELOPED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA. CONTRACTOR SHALL SUBMIT THE CALCULATIONS, DRAWINGS AND DESIGN TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND TO THE GOVERNING AGENCY FOR PERMITTING AND APPROVAL PRIOR TO STARTING FABRICATION. CONTRACTOR SHALL OBTAIN ALL PERTINENT PERMITS PRIOR TO STARTING FABRICATION. STAIR FRAMING AND DESIGN-BUILD ELEMENTS SHALL BE DESIGNED TO AVOID TORSIONAL LOADS INTO THE PRIMARY STRUCTURE. ENGINEER RESPONSIBLE FOR THE DESIGN OF STAIRS IS ALSO RESPONSIBLE FOR PROVIDING STRUCTURAL OBSERVATIONS FOR THE DESIGN-BUILD ITEMS.
13. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE EXTENT OF THE SCOPE OF WORK. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
14. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE CONSTRUCTION DOCUMENTS WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
15. UNLESS NOTED OTHERWISE, COLUMNS, WALLS, BEAMS, FOOTINGS, ETC, ARE CENTERED AT GRIDLINES. WHERE BEAM TO BEAM SPACING IS NOT SHOWN, BEAM SHALL BE EQUALLY SPACED BETWEEN GRIDLINES.
16. ANY DEVIATION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL BEFORE PROCEEDING WITH THE WORK. SUBSTITUTIONS OF PRODUCTS OR MATERIALS SPECIFIED ON THE CONSTRUCTION DOCUMENTS ARE NOT ALLOWED WITHOUT OWNER'S REPRESENTATIVE'S APPROVAL.
17. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY CONTRACTOR.
18. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

REGISTERED PROFESSIONAL ENGINEER — JOHN MARTIN — No. S6869 — STRUCTURAL — STATE OF CALIFORNIA

DATE SIGNED: 11/02/23

MARTIN & associates
JOHN A. MARTIN & ASSOCIATES
Structural Engineers
950 S. Grand Avenue
Los Angeles, Calif. 90015
Phone (213) 483-6490
Fax (213) 483-3084
J21322

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC Inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT — STEPHEN J. CORBIN — C-16785 — STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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GENERAL NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.	J21322
DRAWN :	JAMA
CHECKED :	JAMA
DATE :	11/02/23

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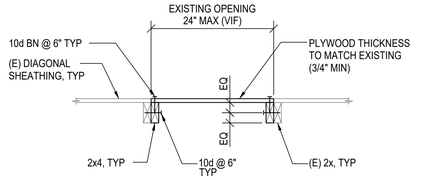
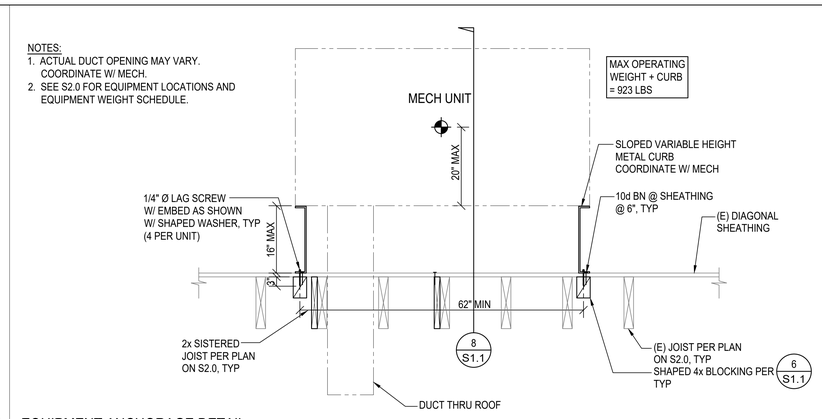
OF SHEETS



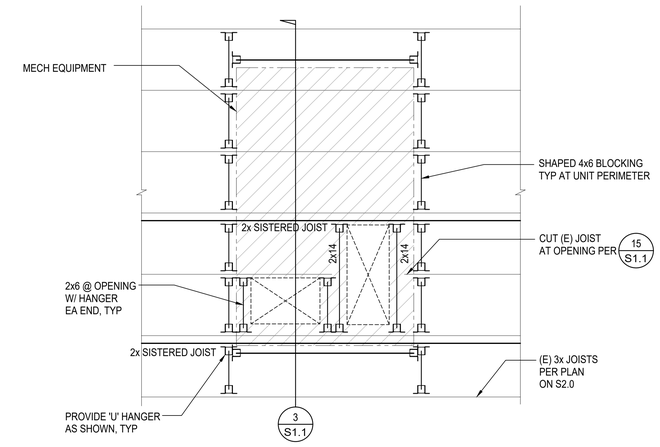
EXISTING VENT OPENING INFILL DETAIL — 5

1" = 1'-0"



EQUIPMENT ANCHORAGE DETAIL — 3

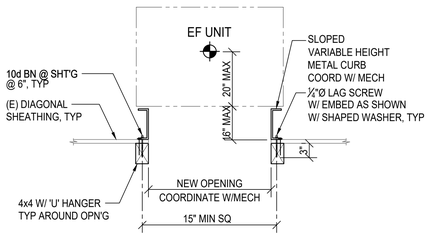
3/4" = 1'-0"



NOTE:
SEE SHEET S2.0 FOR EQUIPMENT LOCATIONS AND EQUIPMENT WEIGHT SCHEDULE.

PARTIAL MECH UNIT FRAMING PLAN TYPICAL AT BLDG C, E, F, H & I — 6

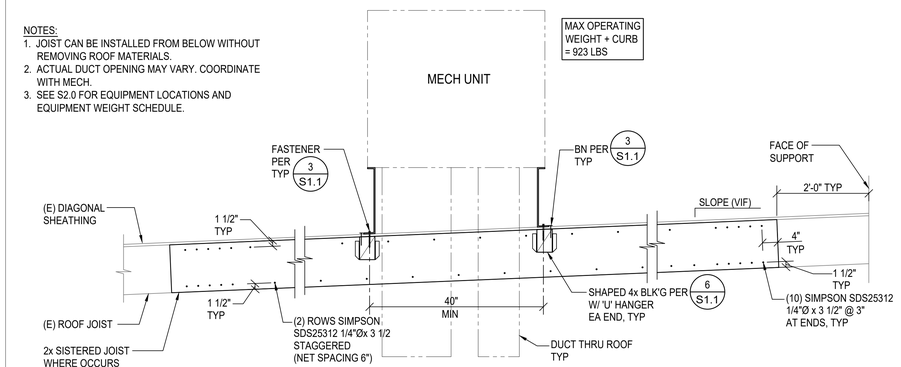
3/4" = 1'-0"



NOTE:
DO NOT CUT OR DAMAGE EXISTING ROOF RAFTERS.

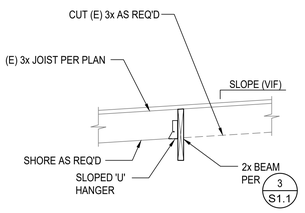
FRAMING AT EF UNIT — 10

1" = 1'-0"



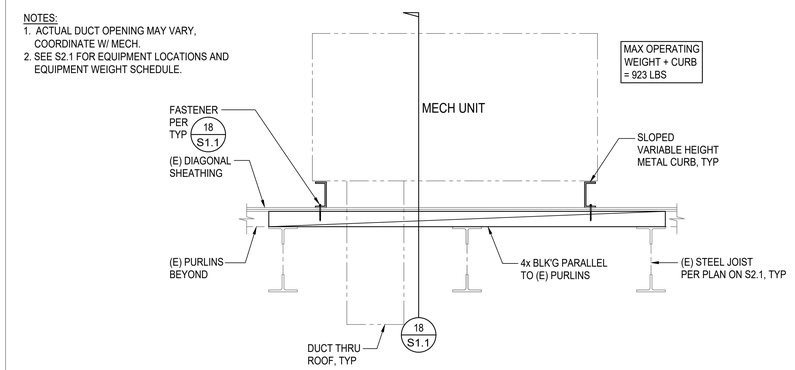
SECTION — 8

3/4" = 1'-0"



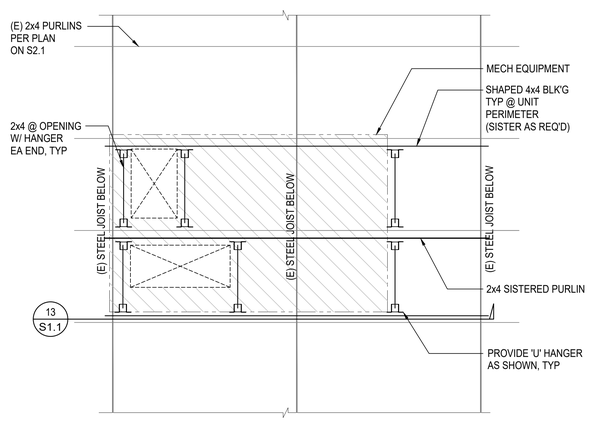
EXHAUST FAN ANCHORAGE — 15

NTS



SECTION — 13

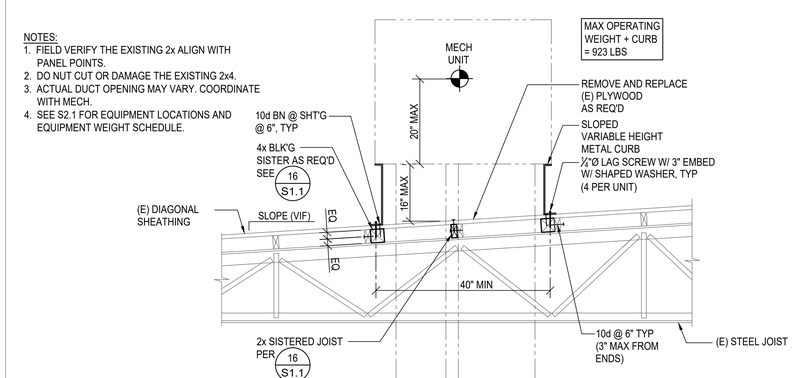
3/4" = 1'-0"



NOTE:
SEE SHEET S2.1 FOR EQUIPMENT LOCATIONS AND EQUIPMENT WEIGHT SCHEDULE.

PARTIAL MECH UNIT FRAMING PLAN TYPICAL AT BLDG D & G — 16

3/4" = 1'-0"



SECTION — 18

3/4" = 1'-0"

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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FRANKLIN ELEMENTARY SCHOOL

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FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

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TYPICAL DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. J21322
DRAWN : JAMA
CHECKED : JAMA
DATE : 11/02/23

DATE SIGNED: 11/02/23

JOHN A. MARTIN & ASSOCIATES
Structural Engineers
950 S. Grand Avenue
Los Angeles, Calif. 90015
Phone (213) 483-6490
Fax (213) 483-3084
J21322

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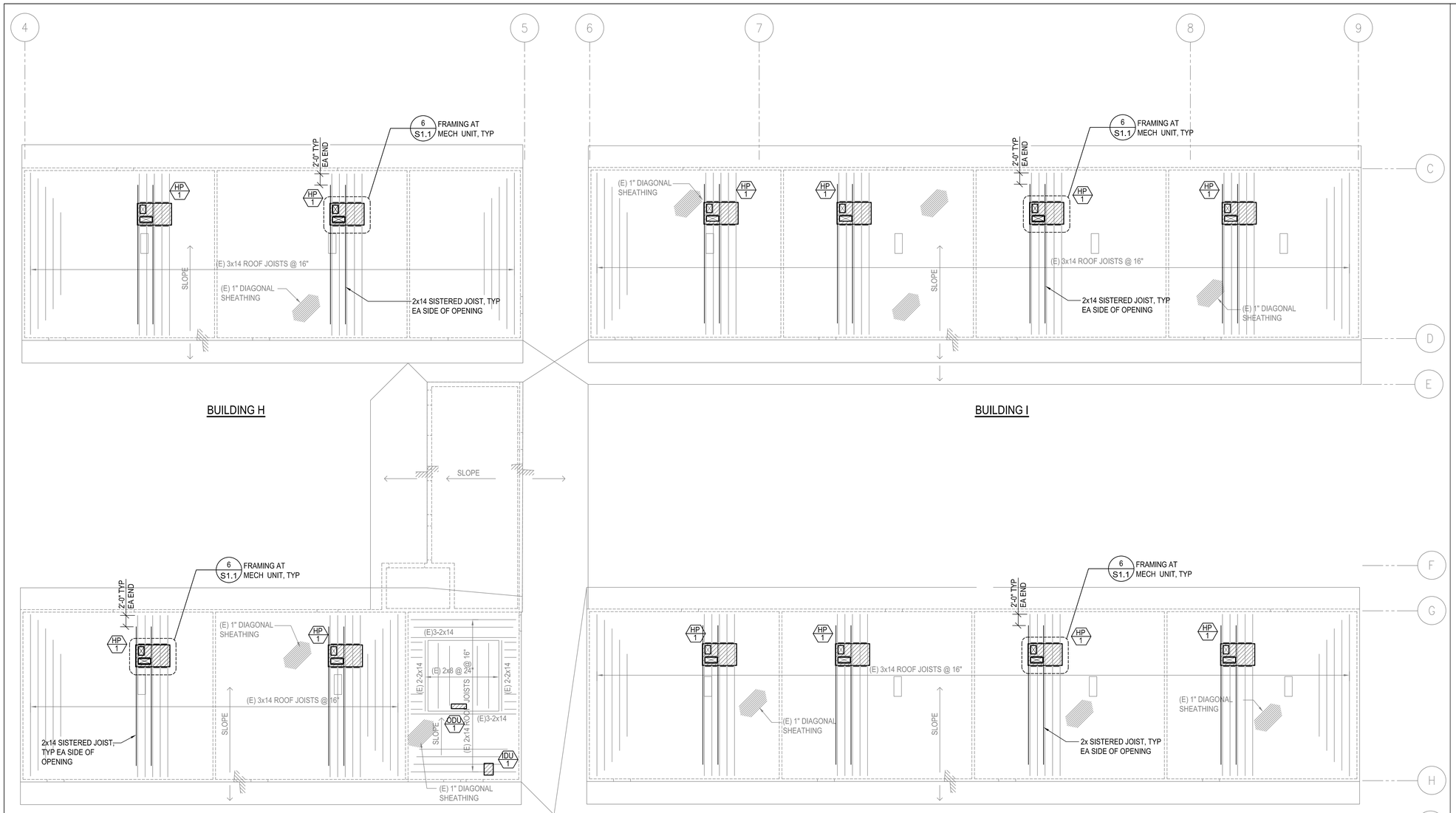
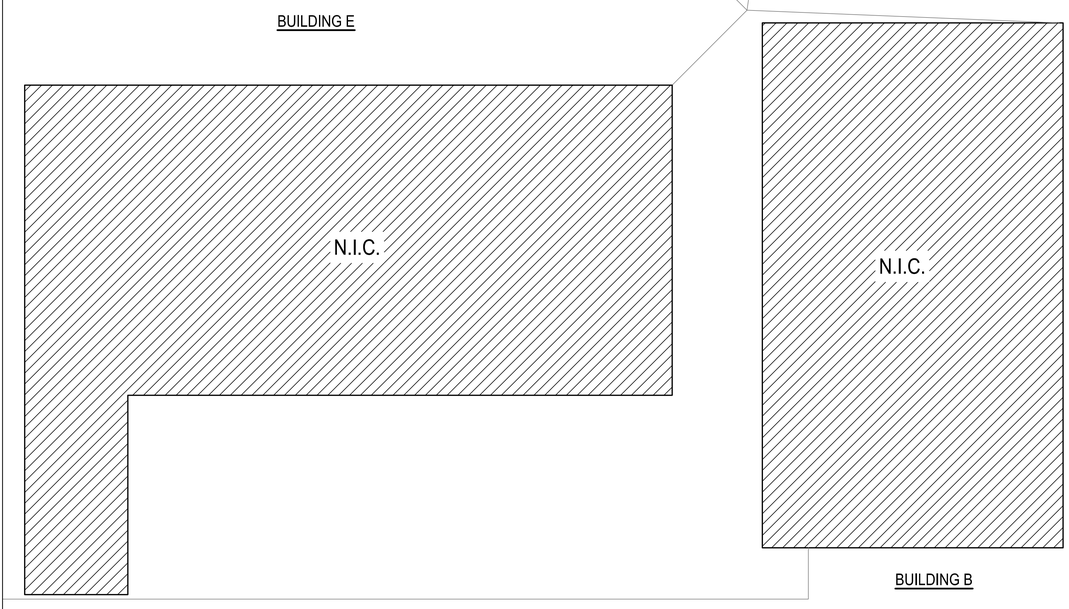
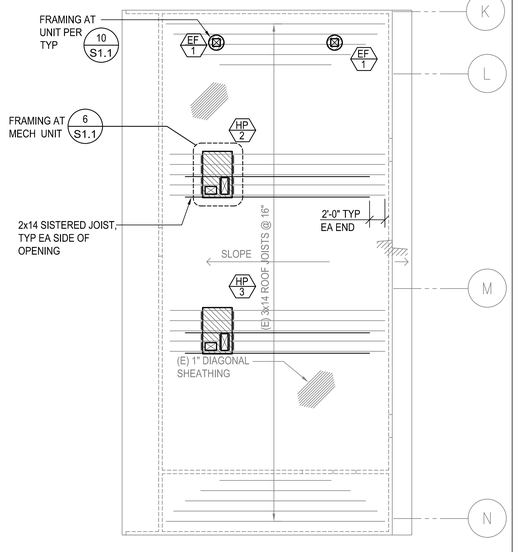






ROOF FRAMING PLANS
1/8" = 1'-0"

N A

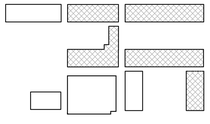
FRAMING NOTES

1. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S0.1 AND S1.1.
2. REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
3. REFER TO AND CHECK WITH MECHANICAL DRAWINGS FOR DUCT OPENINGS, EQUIPMENT SIZE AND LOCATION, ETC. LOCATE SUPPORTING MEMBERS ACCORDINGLY.
4. HATCHED AREA INDICATES MECHANICAL UNIT. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
5. XXX / X INDICATES MECHANICAL UNIT. SEE SCHEDULE ON THIS SHEET FOR EQUIPMENT WEIGHTS, COORDINATE WITH MEP DRAWINGS, TYPICAL.

ROOF EQUIPMENT WEIGHT SCHEDULE	
UNIT MARK	MAX OPER WT + CURB (LBS)
HP-1	923
HP-2	916
EF-1 & 2	50
ODU-1	80
HP-3	214
IDU-1	50

6. HDR INDICATES HEADER PER DETAIL 7/S1.2.

KEY PLAN



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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
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STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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ROOF FRAMING PLANS

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER JOHN MARTIN No. S6869 CIVIL STATE OF CALIFORNIA
DATE SIGNED: 11/02/23
MARTIN & associates
JOHN A. MARTIN & ASSOCIATES
Structural Engineers
950 S. Grand Avenue
Los Angeles, Calif. 90015
Phone (213) 483-6490
Fax (213) 483-3084
J21322

JOB NO. J21322
DRAWN : JAMA
CHECKED : JAMA
DATE : 11/02/23

S
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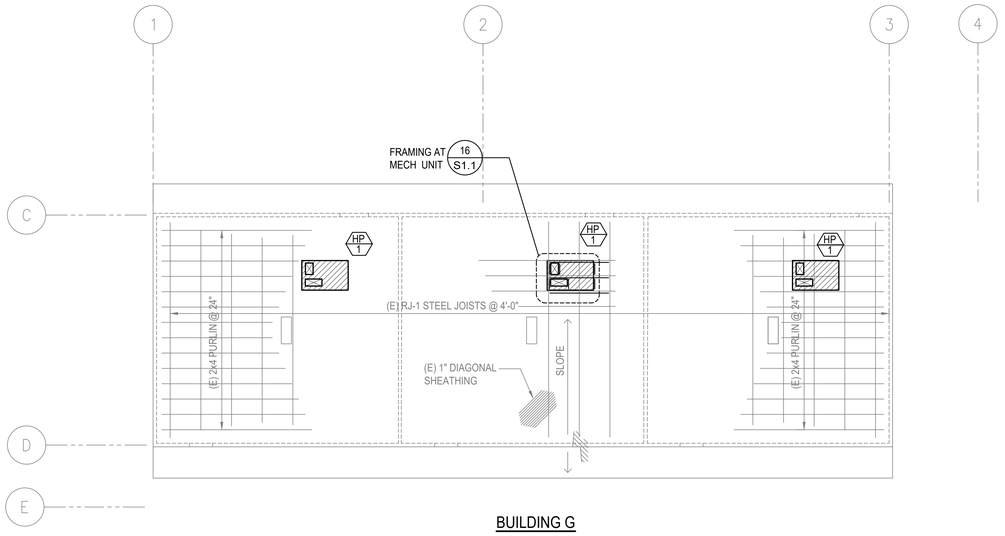
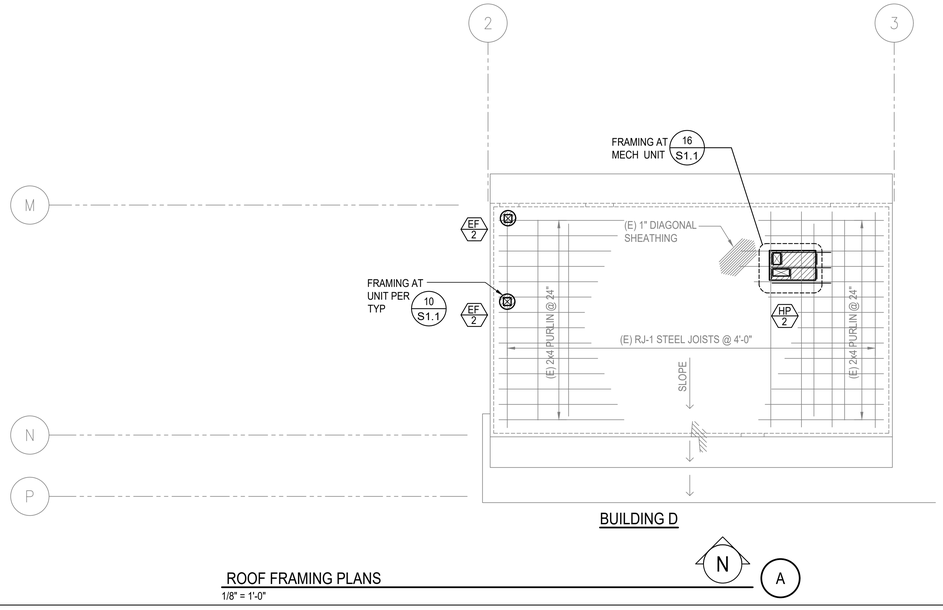
OF SHEETS



BUILDING G



BUILDING D

ROOF FRAMING PLANS
1/8" = 1'-0"

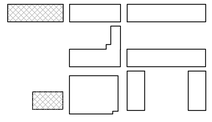
N A

FRAMING NOTES

1. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S0.1 AND S1.1.
2. REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
3. REFER TO AND CHECK WITH MECHANICAL DRAWINGS FOR DUCT OPENINGS, EQUIPMENT SIZE AND LOCATION, ETC. LOCATE SUPPORTING MEMBERS ACCORDINGLY.
4. HATCHED AREA INDICATES MECHANICAL UNIT. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
5. XXX / X INDICATES MECHANICAL UNIT. SEE SCHEDULE ON THIS SHEET FOR EQUIPMENT WEIGHTS, COORDINATE WITH MEP DRAWINGS, TYPICAL.

ROOF EQUIPMENT WEIGHT SCHEDULE	
UNIT MARK	MAX OPER WT + CURB (LBS)
HP-1	923
HP-2	916
EF-1 & 2	50
ODU-1	80

KEY PLAN



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ROOF FRAMING PLANS

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OF SHEETS

TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2019 BUILDING ENERGY EFFICIENCY STANDARDS):

1. All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
2. All furnaces shall have minimum efficiencies per Table 110.2-J.
3. All furnaces shall have stand by loss controls per section 110.2 (d).
4. All thermostats shall comply with 110 (b) or (c), as applicable.
5. All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for minimum outside air settings. Refer to table on plan.
6. When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
7. Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
8. Each HVAC system shall have shut-off and reset controls complying with 120.2 (e).
9. All outside and exhaust dampers shall automatically close per 120.2 (f).
10. All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with fault detection and diagnostics per 120.2 (i).
11. All ductwork insulation shall comply with 120.4.
12. Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
13. Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices:
    - Outdoor air ventilation systems per NA 7.5.1.
    - Constant volume single zone system controls per NA 7.5.2.
    - Air economizers per NA 7.5.4.
    - Demand control (CO2) controls, when required, per NA 7.5.5.
    - Fault Detection & diagnostics (FDD) per NA 7.5.11.

Equipment Anchorage Notes:

All Mechanical, Plumbing, and Electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be restrained in a manner approved by DSA.

The following Mechanical and Electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all Mechanical, Electrical and Plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5., 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP ☐ MD ☐
PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☑
PP ☐ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) #Tolco/B-line OPM-052.

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2019 California Energy Code, Title 24, C.C.R.
Part 9 - 2019 California Fire Code, Title 24, C.C.R.
Part 11 - 2019 California Green Code, Title 24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

General Project Note:

1. Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.

2. Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.

EQUIPMENT SCHEDULE

HP-1 (F / M1.2)

Carrier 50GCQM06 Rooftop Heat Pump, 1,800 CFM @ 0.60 E.S.P., 0.66 BHP direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,200 CFM low speed (staged air volume), 61,300 BTUH total / 46,320 sensible gross cooling / 54,860 heating capacity / 16.2 SEER / 11.7 EER / 8.3 HSPF at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 13 return air filters, 5.5 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, modulating power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide sperate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: 26 MCA / 30 MOCP @ 460v-3ph. (HP Unit) — Operating Weight: 816 Lbs.
1.9 MCA / 3.4 MOCP @ 460v-3ph. (Power Exhaust) — Curb: 107 lbs.

HP-2 (F / M1.2)

Carrier 50FCQM07 Rooftop Heat Pump, 2,100 CFM @ 0.60 E.S.P., 0.83 direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,400 CFM low speed (staged air volume), 73,450 BTUH total / 55,300 sensible gross cooling / 63,550 heating capacity / 11.2 EER / 15.0 IEER / 3.6 COP at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 13 return air filters, 5.5 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, modulating power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide sperate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: 23 MCA / 25 MOCP @ 460v-3ph. (HP Unit) — Operating Weight: 809 Lbs.
3.5 MCA / 6.3 MOCP @ 460v-3ph. (Power Exhaust) — Curb: 107 lbs.

HP-3 (F / M1.2)

Carrier 50GCQM04 Rooftop Heat Pump, 1,200 CFM @ 0.60 E.S.P., 0.35 BHP direct drive vane-axial fan with electrically commutated motor, 800 CFM low speed (staged air volume), 35,890 BTUH total / 27,310 sensible gross cooling / 34,300 heating capacity / 16.2 SEER / 11.89 EER / 8.3 HSPF at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. 5.55 Sq. Ft. 2" Deep MERV 13 return air filters in factory filter rack, 5.5 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, modulating power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide sperate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: 19 MCA / 20 MOCP @ 460v-3ph. (HP Unit) — Operating Weight: 107 Lbs.
1.9 MCA / 3.4 MOCP @ 460v-3ph. (Power Exhaust) — Curb: 107 lbs.

ODU-1 / IDU-1 (I / M1.1 — A-E / M1.2)

Carrier 38MARBQ12 / 40MBDQ12. 1/4" and 1/2" refrigerant line set (insulate per manufacturer's requirements), variable speed rotary compressor, ducted indoor fan coil, 295 CFM @ 310 watts, 12,584 BTUH total, 8,396 sensible, 14,894 heating at AHRI conditions, 21.5 SEER / 13.0 EER / 11.5 HSPF, integral condensate lift pump. Indoor fan coil powered from outdoor unit. Field power wiring provided under electrical contract. Control wiring under mechanical contract. 24v interface kit for use with Pelican TS200 thermostat.

Electrical: 15 MOCP @ 208v-1ph. — Operating Weight: 73 Lbs. (ODU) 43 lbs. (IDU)

EF-1

Greenheck SPA-190-VG Ceiling Mounted Exhaust Fan. 178 CFM @ 0.20" E.S.P., 1400 RPM, 48 watts, 1.5 sones. Provide with backdraft damper, full size discharge to roof cap, and NEMA-1 toggle switch. Interlock fan operation with light circuit. Dial on fan speed control with time delay set to fifteen minutes.

Electrical: 6 Watts @ 115v-1ph. — Operating Weight: 17 Lbs.

EF-2

Greenheck SPA-50-90-VG Ceiling Mounted Exhaust Fan. 90 CFM @ 0.20" E.S.P., 887 RPM, 6 watts ECM motor, 0.7 sones. Provide with backdraft damper, full size discharge to roof cap, and NEMA-1 toggle switch. Interlock fan operation with light circuit. Dial on fan speed control with time delay set to fifteen minutes.

Electrical: 6 Watts @ 115v-1ph. — Operating Weight: 12 Lbs.

GRILLE SCHEDULE

CD-1

Titus Model TDC Louvered Face Diffuser with T-Bar mount frame and O.B.D. See diffuser sizing chart for neck sizes.

CD-2

Titus Model TDC Louvered Face Diffuser with flat surface mount frame and O.B.D. See diffuser sizing chart for neck size.

CR-1

Titus Model 50F eggcrate T-Bar mount return grille.

Note: Paint all visible surfaces behind diffusers and grilles flat black.

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

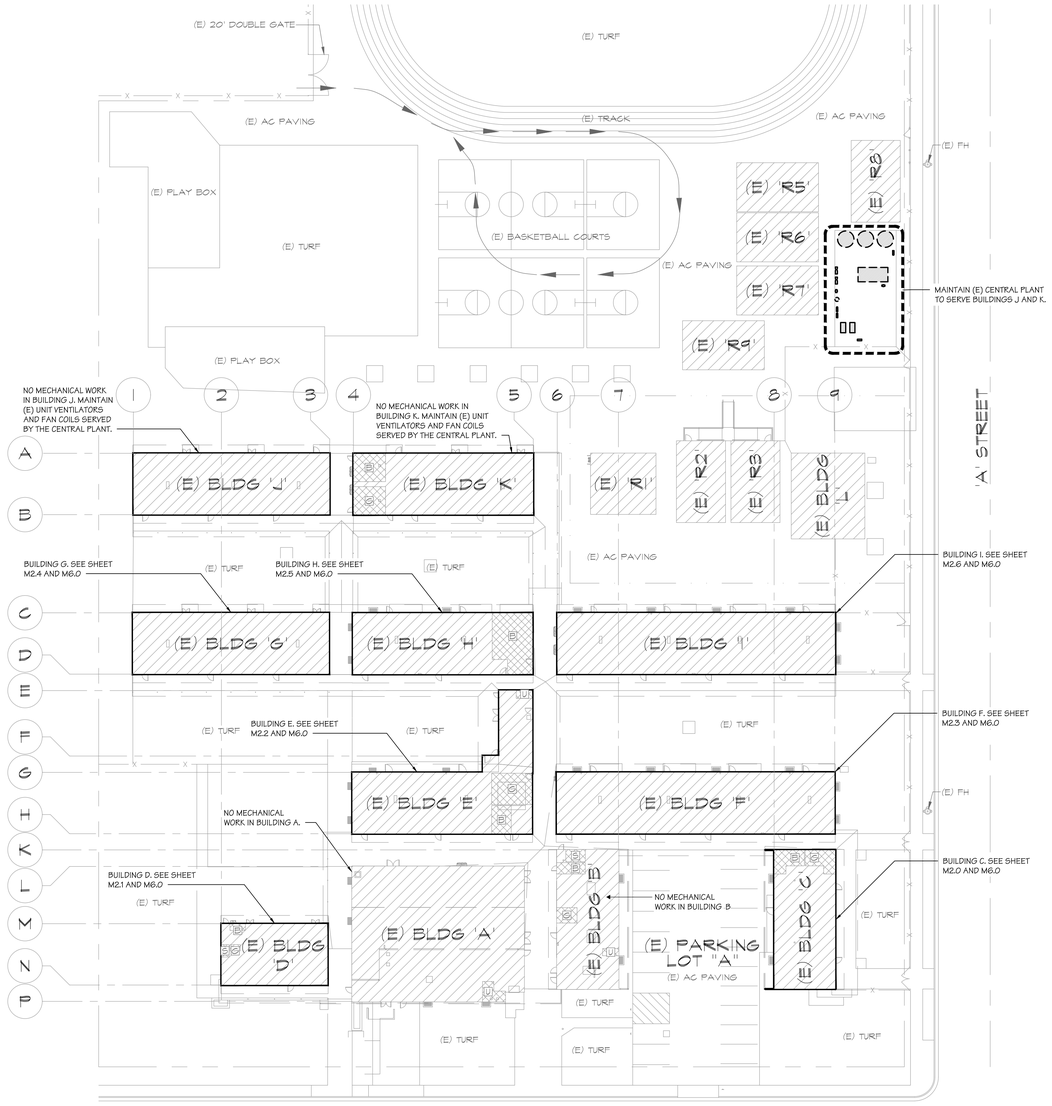
Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

A listing of certified ATT can be found at:
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance.

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.



TRUXTUN AVENUE

MECHANICAL SITE PLAN

SCALE: 1"=30'-0"

DIFFUSER SIZING CHART

CFM	TITUS MCD, SQUARE NECK	CFM	TITUS TDC, SQUARE NECK
0 - 200	6" x 6"	0 - 150	6" x 6"
201 - 325	8" x 8"	151 - 275	9" x 9"
326 - 450	10" x 10"	276 - 475	12" x 12"
451 - 600	12" x 12"	476 - 700	15" x 15"
601 - 700	14" x 14"	701 - 950	18" x 18"
701 - 850	16" x 16"	951 - 1250	21" x 21"
851 - 950	18" x 18"	1251 - 1700	24" x 24"
951 - 1150	20" x 20"	1701 - 2500	30" x 30"

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N)	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not in Contract
	C.W.R.	Condensor Water Return		N.O.	Normally Open
	C.W.S.	Condensor Water Supply		O.S.A.	Outside Air
	C.H.W.R.	Chilled/Hot Water Return		O.B.D.	Opposed Blade Damper
	C.H.W.S.	Chilled/Hot Water Supply		P.O.C.	Points of Connection
	COMB.	Combustion		P.P.	Pitzes Plug
	CONN.	Connection		PROV.	Provide
	CONT.	Continuation		P.R.V.	Pressure Reducing Valve
	C.R.	Ceiling Return Register		SIM.	Similar
	CLG.	Ceiling		S.D.	Smoke / Fire Damper w/ access panel
	C.S.	Ceiling Supply Register	S.F.D.	S.F.D.	
	C.V.	Check Valve		S.M. or S/M	Sheet Metal
	D.C.W.	Domestic Cold Water		S.O.V.	Shut Off Valve
	DIA.	Diameter		S.P.S.T.	Single Pole Single Throw
	D.L.	Door Louver		STAT.	Thermostats or Room Sensor
	DN.	Down		SURF.	Surface
	D.P.D.T.	Double Pole Double Throw		(TYP)	Typical
	D.T.R.	Duct Thru Roof		U.G.	Underground
	(E)	Existing		U.N.O.	Unless Noted Otherwise
	E.F.	Exhaust Fan		V.D.	Volume Damper
	E.M.S.	Energy Management System		V.D.	Vol. Damper w/ Remotse Operator
	EX.	Exhaust		W/	With
F.D.	F.D.	Fire Damper w/ acc. panel		W.R.	Wall Return Register
	Flex. Conn	Flexible Connection		W.S.	Wall Supply Register
	FLR.	Floor			Duct w/ Acoustic Lining
	F.T.R.	Flue Thru Roof		T.V.	Turning Vanes
	Furn.	Furnace			Extractor
	GA.	Gauge			
	GAL.	Gallon			
	GALV.	Galvanized			CO2 SENSOR
	G.P.M.	Gallons per Minute			
	GRD.	Grade			Union
	G.V.	Gate Valve			Reducer or Increaser

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

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MECHANICAL SITE PLAN, NOTES, SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
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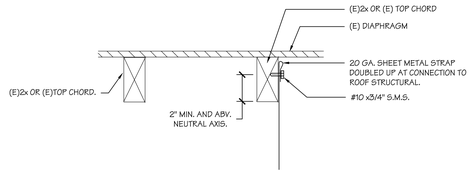
CHECKED : M.B.
DATE : 7/26/21

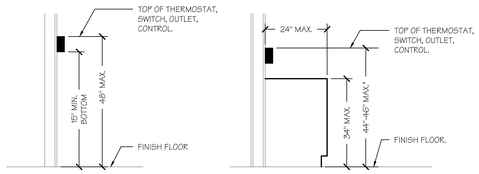
M
1.0

REGISTERED PROFESSIONAL ENGINEER MARK BARNES BASKIN No. M26577 6-30-24 MECHANICAL STATE OF CALIFORNIA



DUCT HANGER UPPER ATTACHMENT — G

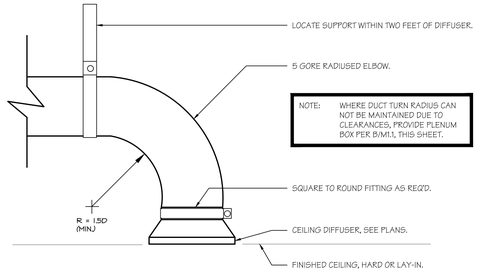
SCALE: N.T.S.



* 44" MAX. FOR WHEEL CHAIR FORWARD APPROACH AND 46" MAX. FOR SIDE APPROACH PER CBC FIGURE 11B-308.2.2 & 11B-308.3.2.

THERMOSTAT MOUNTING LOCATION — D

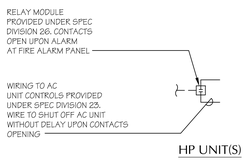
SCALE: N.T.S.



CEILING DIFFUSER/REGISTER CONNECTION — A

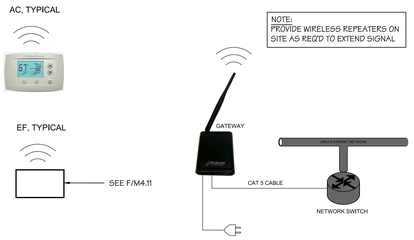
SCALE: N.T.S.

NOTE: RELAY MODULE AT AC UNIT APPLICABLE TO HP-2, BUILDING 'C' AND 'D' ONLY



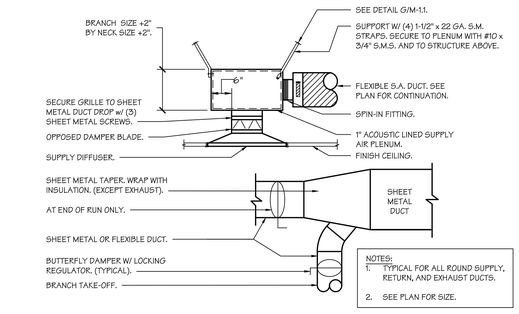
HP UNIT INTERLOCKS WITH FIRE ALARM PANEL — H

SCALE: N.T.S.



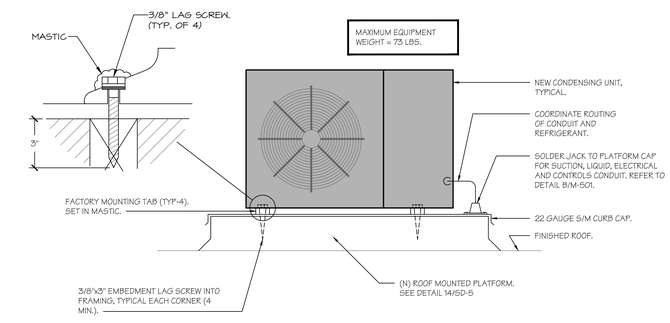
LAN ARCHITECTURE — E

SCALE: N.T.S.



SUPPLY AIR PLENUM & BRANCH TAKE-OFFS — B

SCALE: N.T.S.

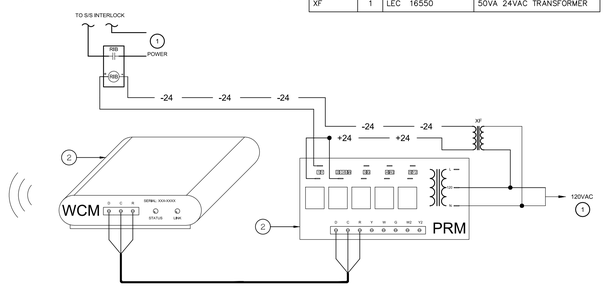


ROOF MOUNTED CONDENSING UNIT — i

SCALE: N.T.S.

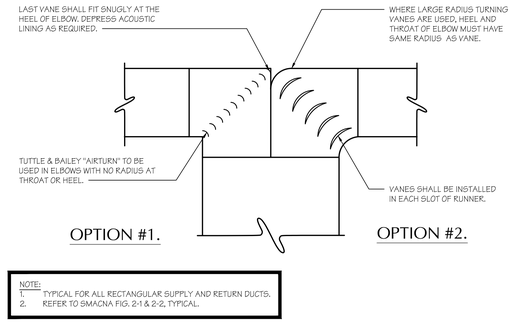
Sheet Notes
1 LINE VOLTAGE & CONDUIT BY DIVISION 26. ELEC. CONTRACTOR
2 INSTALL ABOVE T-BAR CEILING IN CLASSROOM ADJACENT TO FAN LOCATIONS.

Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
WCM+PRM	1	PEL PM5	WIRELESS RELAY MODULE KIT
RIB	2	FUN RUBU1C	RELAY IN A BOX
XF	1	LEC 16550	50VA 24VAC TRANSFORMER



EX. FAN CONTROL DETAIL — F

SCALE: N.T.S.



NOTE:
1. TYPICAL FOR ALL RECTANGULAR SUPPLY AND RETURN DUCTS.
2. REFER TO SMACNA FIG. 2-1 & 2-2, TYPICAL.

NINETY DEGREE ELBOW — C

SCALE: N.T.S.

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BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
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MECHANICAL DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
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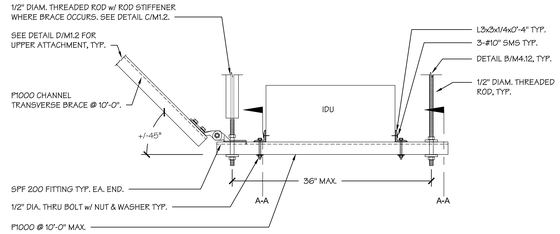
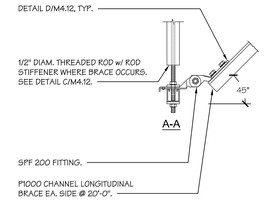
M
1.1

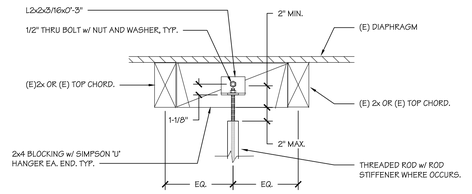




IDU ANCHORAGE DETAIL

SCALE: N.T.S.

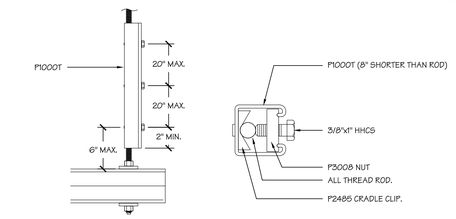
A



MOUNTING DETAIL

SCALE: N.T.S.

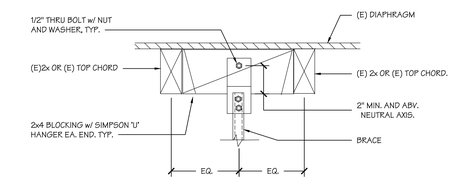
B



HANGER ROD REINFORCEMENT

SCALE: N.T.S.

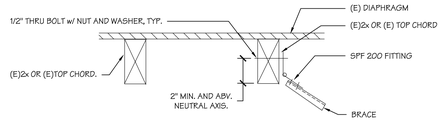
C



BRACING UPPER ATTACHMENT

SCALE: N.T.S.

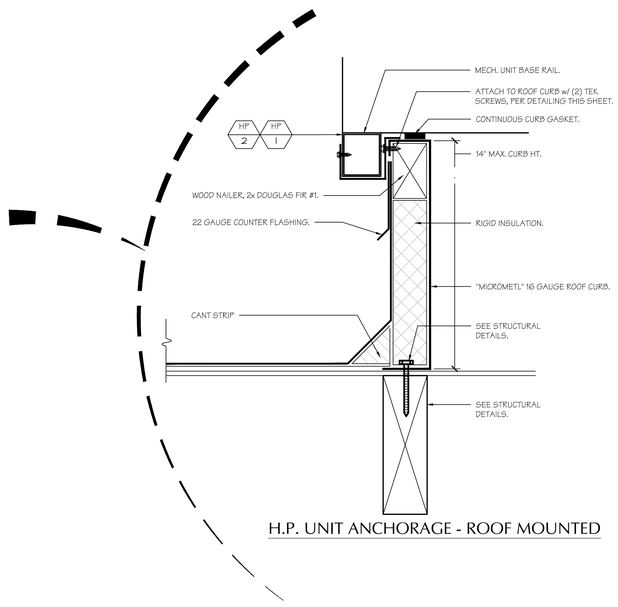
D



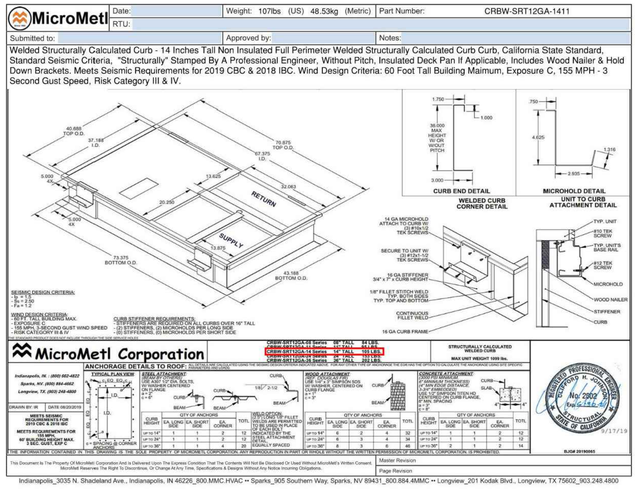
BRACE UPPER ATTACHMENT

SCALE: N.T.S.

E



H.P. UNIT ANCHORAGE - ROOF MOUNTED



HP 1,2,3 UNIT CURB 816 lb. MAX UNIT WT.

H.P. UNIT ANCHORAGE

SCALE: N.T.S.

F

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MECHANICAL DETAILS

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REGISTERED PROFESSIONAL ENGINEER JAMES "BRADLEY" BASKIN No. M26577 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
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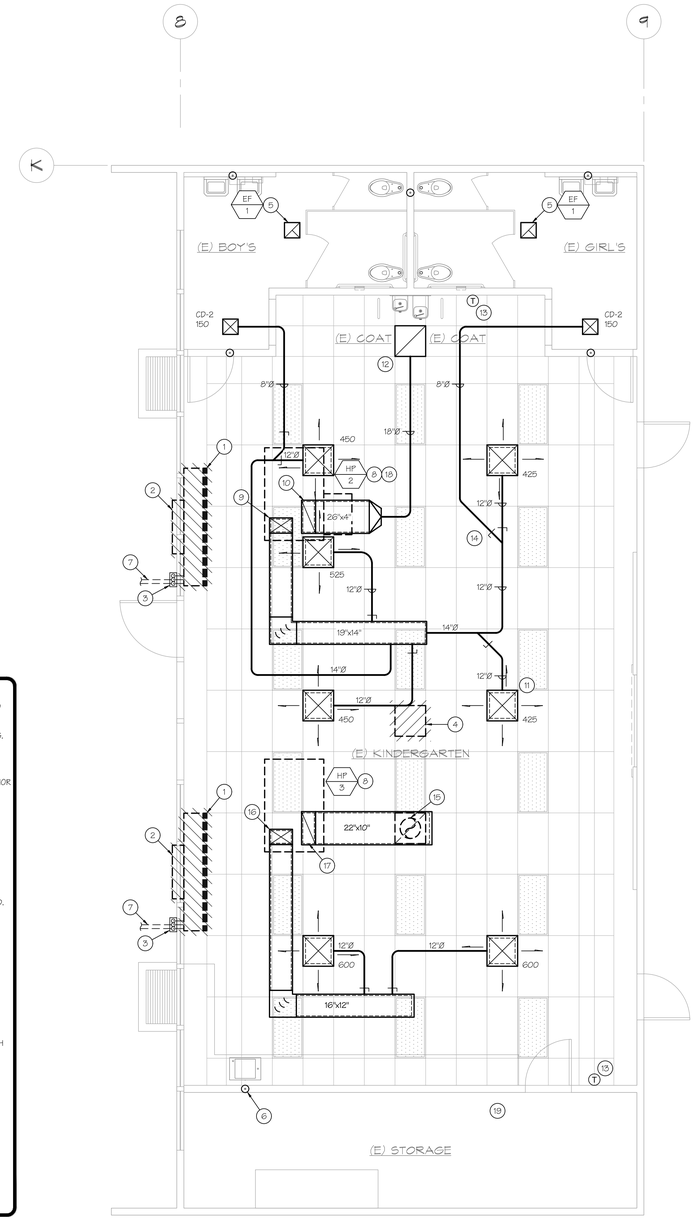
CHECKED : M.B.
DATE : 7/26/21

M
1.2



MECHANICAL FLOOR PLAN KEY NOTES:

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. REMOVE EXISTING EXHAUST FAN AND REPLACE WITH NEW. RE-CONNECT TO EXISTING DUCT DISCHARGE THRU ROOF. MODIFY / PATCH CEILING AS REQUIRED.
6. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
7. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
8. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
9. 14" X 19" SUPPLY AIR DROP WITH 1" LINER, 16" X 21" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
10. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
11. CD-1, TYPICAL. SEE DETAIL A/M-1.1.
12. CR-1 TYPICAL.
13. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION.
14. BRANCH DUCT VOLUME DAMPER. SEE TYPICAL DETAIL B/M-1.1.
15. 16" DROP TO CR-1.
16. 12" X 16" SUPPLY AIR DROP WITH 1" LINER, 14" X 18" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
17. 22" X 10" RETURN AIR RISER WITH 1" LINER, 24" X 12" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
18. THIS UNIT TO HAVE AUTOMATIC SHUT-OFF & INTERLOCK WITH FIRE ALARM PANEL. SEE DETAIL H/M-1.1
19. NO MECHANICAL WORK IN THIS ROOM.

MECHANICAL PLAN BUILDING 'C'

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

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PH: (661) 397-4377
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WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-11672 EXP. 11/30/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'C'

MARK	DATE	REVISIONS
1		
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3		

REGISTERED PROFESSIONAL ENGINEER JAMES BASKIN No. M26577 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M

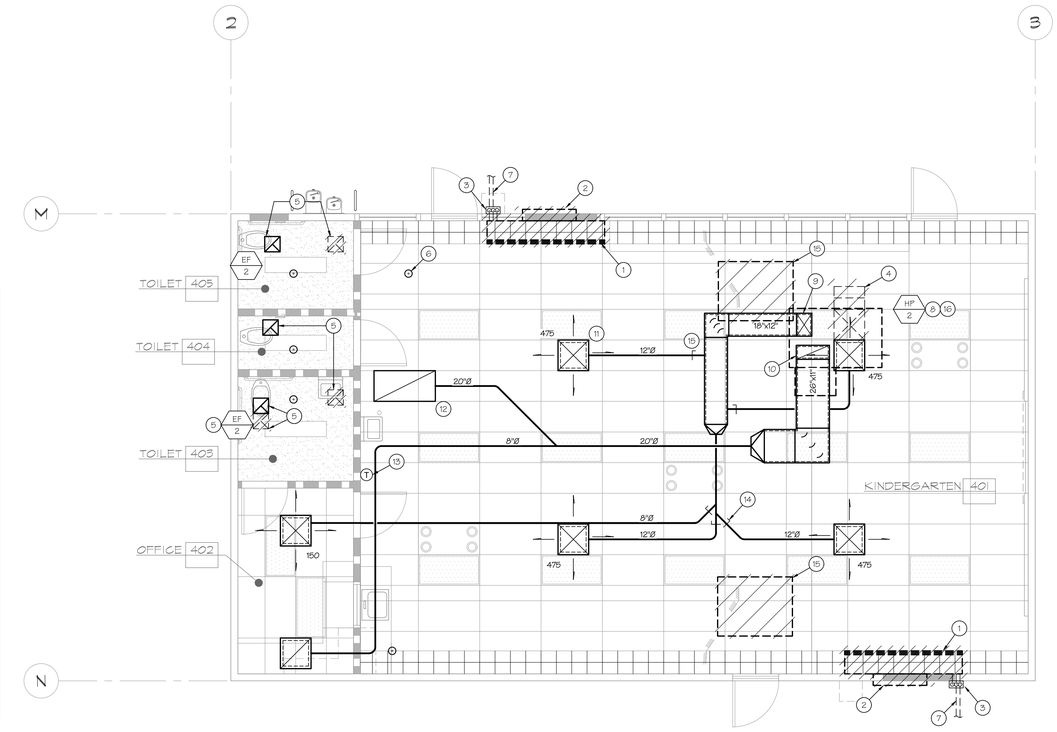
2.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL

MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



MECHANICAL PLAN BUILDING 'D'

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

MECHANICAL FLOOR PLAN KEY NOTES.

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. REMOVE EXISTING EXHAUST FAN AND REPLACE WITH NEW. RE-CONNECT TO EXISTING DUCT DISCHARGE THRU ROOF. MODIFY / PATCH CEILING AS REQUIRED.
6. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
7. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
8. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
9. 14" X 19" SUPPLY AIR DROP WITH 1" LINER, 16" X 21" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
10. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M-1.1.
11. CD-1, TYPICAL. SEE DETAIL A/M-1.1.
12. CR-1 TYPICAL.
13. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION.
14. BRANCH DUCT VOLUME DAMPER. SEE TYPICAL DETAIL B/M-1.1.
15. REMOVE EXISTING ROOFTOP AC UNIT, ALL DUCTWORK, GRILLES, CONTROLS, ETC. DEMO GAS BACK TO STUB THRU ROOF AND CAP. DEMO EXISTING CONDENSATE DRAIN. CONFIRM EXTENTS BASED ON FIELD REVIEW OF EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
16. THIS UNIT TO HAVE AUTOMATIC SHUT-OFF & INTERLOCK WITH FIRE ALARM PANEL. SEE DETAIL H/M-1.1.

ARCHITECT SCA INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT C-16782 EXP. 08-31-2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'D'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
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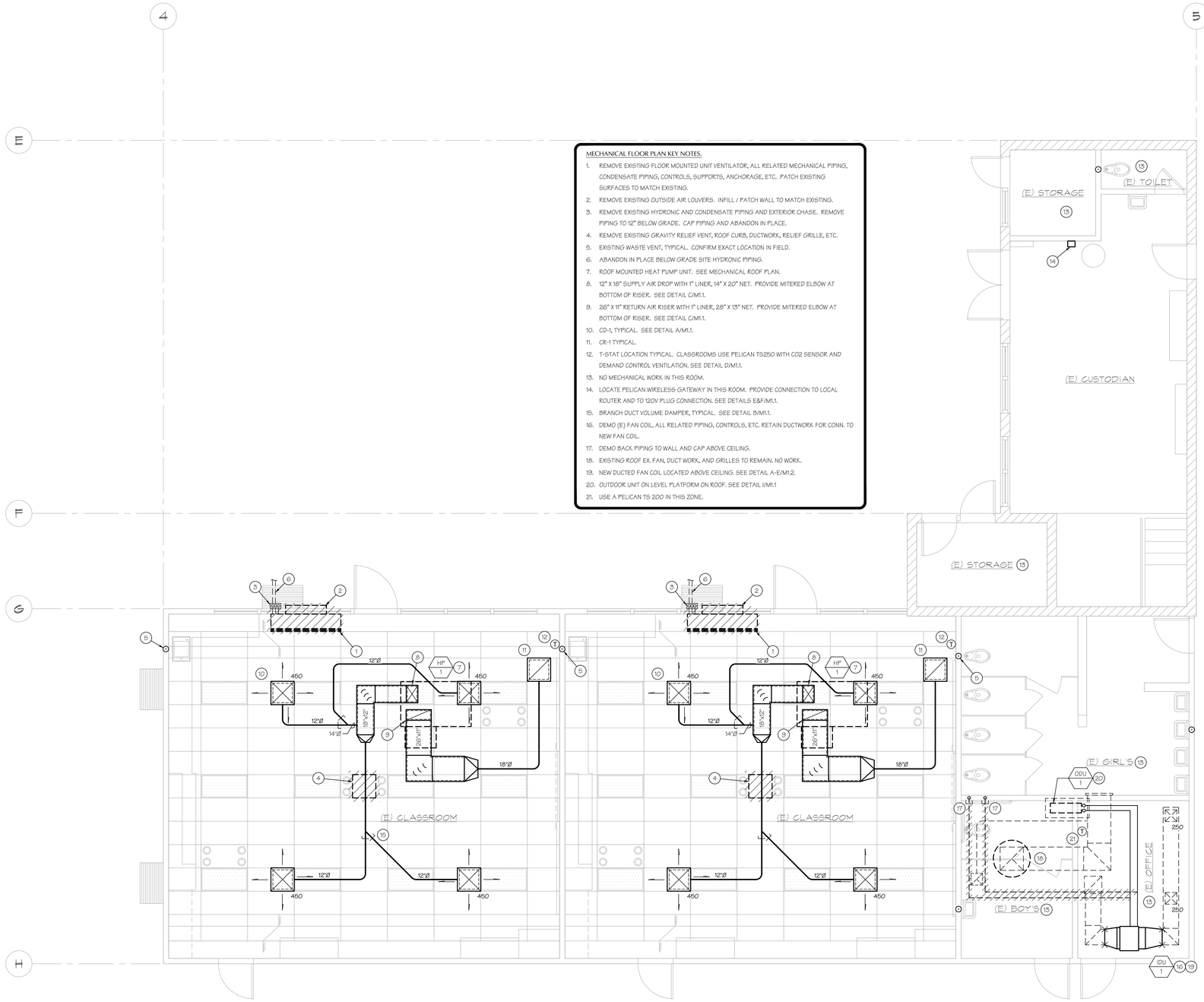

MECHANICAL FLOOR PLAN KEY NOTES.

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
10. CD-1, TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE DETAIL D/M1.1.
13. NO MECHANICAL WORK IN THIS ROOM.
14. LOCATE PELICAN WIRELESS GATEWAY IN THIS ROOM. PROVIDE CONNECTION TO LOCAL ROUTER AND TO 120V PLUG CONNECTION. SEE DETAILS E&F/M1.1.
15. BRANCH DUCT VOLUME DAMPER, TYPICAL. SEE DETAIL B/M1.1.
16. DEMO (E) FAN COIL, ALL RELATED PIPING, CONTROLS, ETC. RETAIN DUCTWORK FOR CONN. TO NEW FAN COIL.
17. DEMO BACK PIPING TO WALL AND CAP ABOVE CEILING.
18. EXISTING ROOF EX. FAN, DUCT WORK, AND GRILLES TO REMAIN. NO WORK.
19. NEW DUCTED FAN COIL LOCATED ABOVE CEILING. SEE DETAIL A-E/M1.2.
20. OUTDOOR UNIT ON LEVEL PLATFORM ON ROOF. SEE DETAIL I/M1.1
21. USE A PELICAN TS 200 IN THIS ZONE.

MECHANICAL PLAN BUILDING 'E'

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

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FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 Exp. 08/31/2025 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
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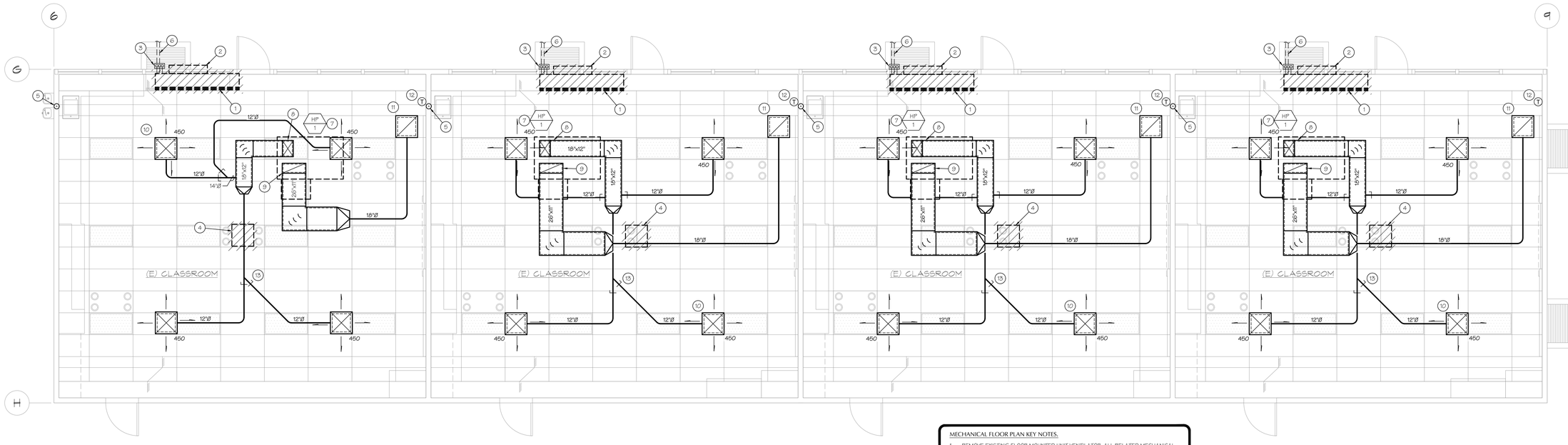

MECHANICAL PLAN BUILDING 'F'

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

MECHANICAL FLOOR PLAN KEY NOTES:

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
10. CD-1, TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE DETAIL D/M1.1 TYP.
13. BRANCH DUCT VOLUME DAMPER, TYPICAL. SEE DETAIL B/M1.1.

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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S.A.R. inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-31679 EXP. 08-31-2025 CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'F'

MARK	DATE	REVISIONS
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REGISTERED PROFESSIONAL ENGINEER ADAM JAMES BASKIN No. M26577 EXP. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
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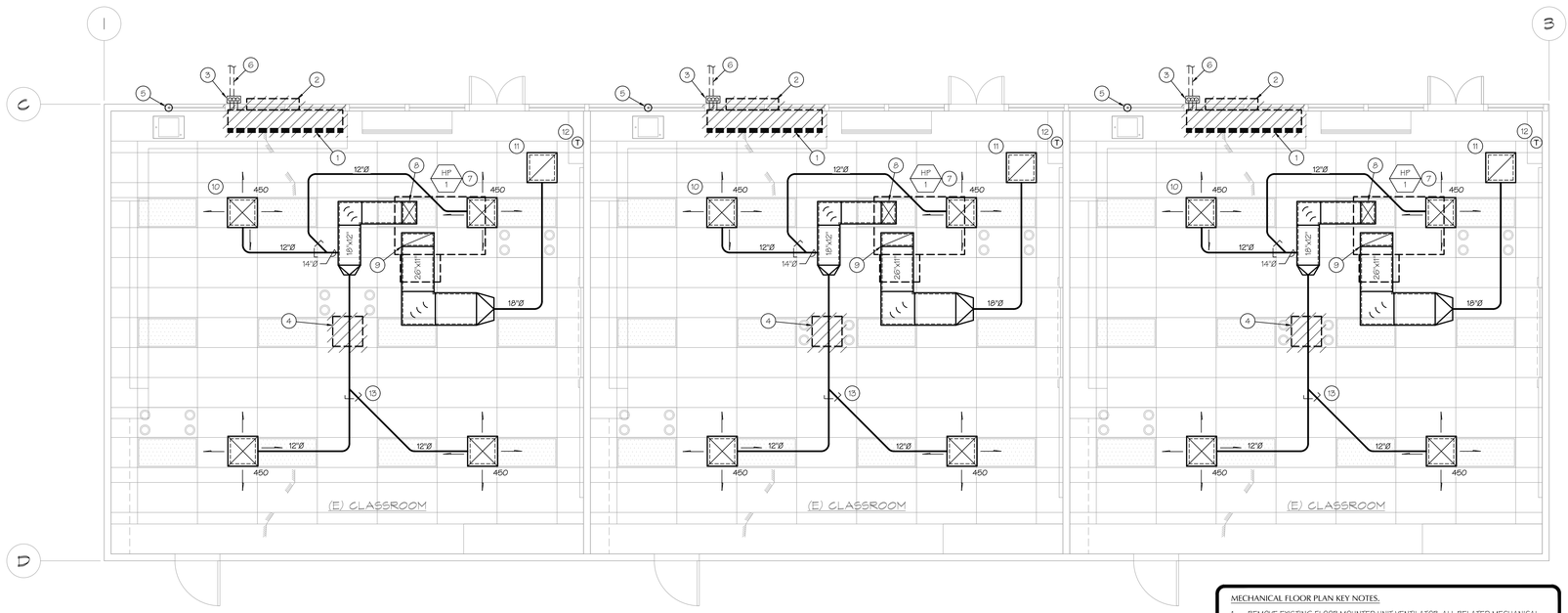

MECHANICAL PLAN BUILDING 'G'

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

MECHANICAL FLOOR PLAN KEY NOTES.

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
10. CD-1, TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN T5250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE DETAIL D/M1.1 TYP.
13. BRANCH DUCT VOLUME DAMPER, TYPICAL. SEE DETAIL B/M1.1.

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FRANKLIN ELEMENTARY SCHOOL

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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-31762 EXP. 12/31/25 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'G'

MARK	DATE	REVISIONS
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REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

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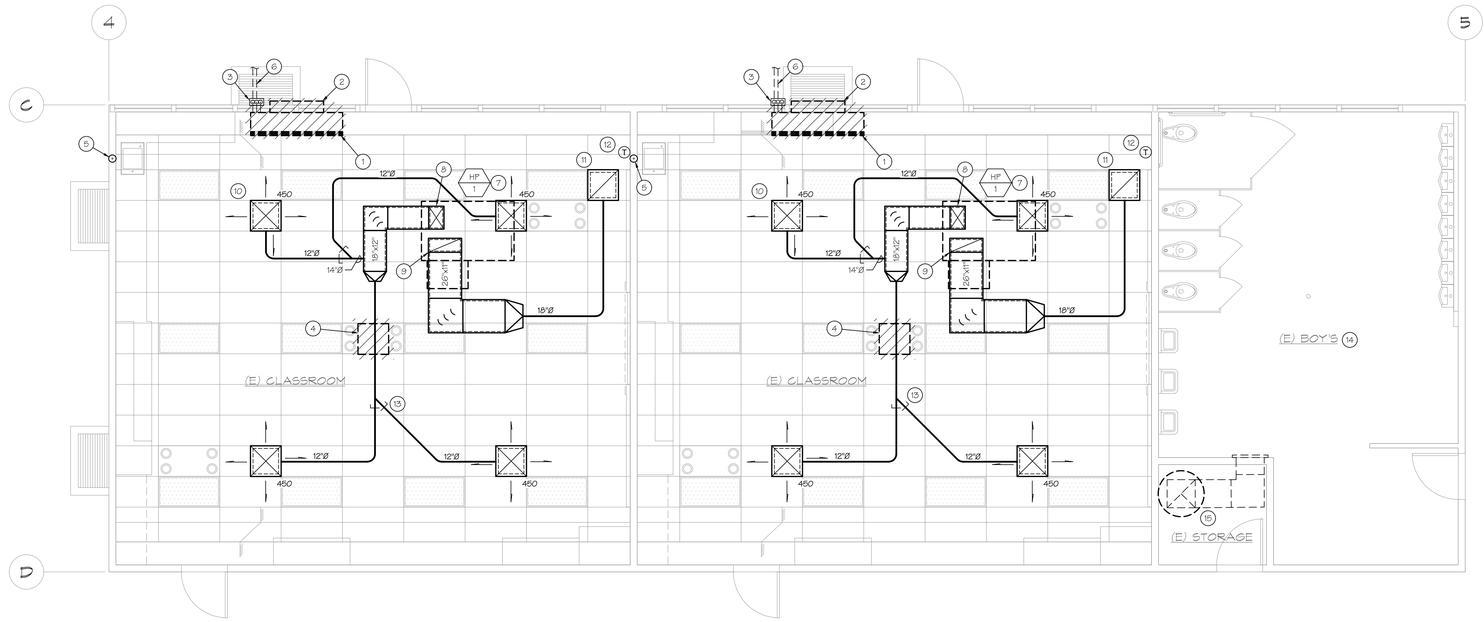

MECHANICAL PLAN BUILDING 'H'

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

MECHANICAL FLOOR PLAN KEY NOTES.

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1 .
10. CD-1, TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE DETAIL D/M1.1 TYP.
13. BRANCH DUCT VOLUME DAMPER, TYPICAL. SEE DETAIL B/M1.1.
14. NO MECHANICAL WORK IN THIS ROOM.
15. EXISTING EXHAUST FAN TO REMAIN.

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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN C-16784 EXP. 08/31/2025 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'H'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
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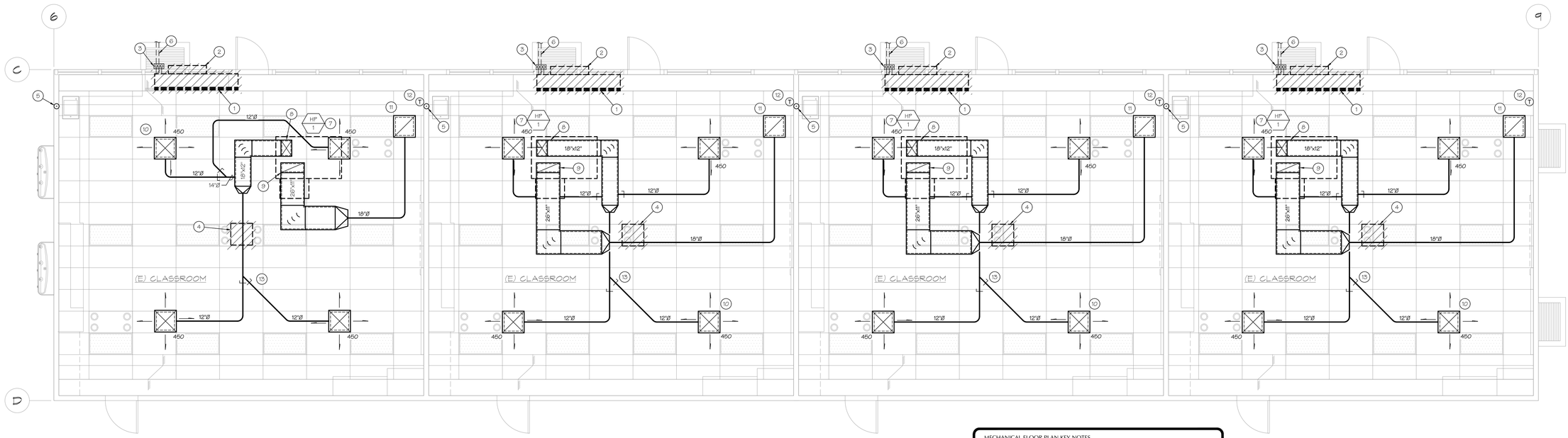

MECHANICAL PLAN BUILDING 'I'

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

MECHANICAL FLOOR PLAN KEY NOTES.

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, ROOF CURB, DUCTWORK, RELIEF GRILLE, ETC.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
10. CD-1, TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE DETAIL D/M1.1 TYP.
13. BRANCH DUCT VOLUME DAMPER, TYPICAL. SEE DETAIL B/M1.1.

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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16736 EXP. 08-31-25 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL PLAN BUILDING 'I'

MARK	DATE	REVISIONS
1		
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REGISTERED PROFESSIONAL ENGINEER JAMES "BASKIN" No. M26527 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
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MECHANICAL ROOF PLAN

SCALE: 1/16"=1'-0"

MECHANICAL ROOF PLAN KEY NOTES.

1. LOCATE ALL MECHANICAL EQUIPMENT A MINIMUM FOR 10'-0" FROM ROOF EDGE.
2. NEW HP UNIT ON SLOPED ROOF CURB. SEE DETAIL F/M1.2. TYPICAL.
3. 14" X 19" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 16" X 21" NET. TYPICAL FOR HP-2
4. 12" X 18" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 14" X 20" NET. TYPICAL FOR HP-1.
5. 26" X 11" RETURN DUCT RISER THRU ROOF WITH 1" LINER, 28" X 13" NET. TYPICAL FOR HP-1, 2.
6. 12" X 16" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 14" X 18" NET. TYPICAL FOR HP-3.
7. 20" X 10" RETURN DUCT RISER THRU ROOF WITH 1" LINER, 22" X 12" NET. TYPICAL FOR HP-3.
8. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 150 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 400 CFM. TYPICAL FOR HP-1.
9. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 200 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 500 CFM. THIS HP ONLY.
10. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 125 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 300 CFM. THIS HP ONLY.
11. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 100 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 250 CFM. THIS HP ONLY.
12. SEE ODU ANCHORAGE DETAIL I/M1.1.
13. (E)AC UNIT. NO WORK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16782 EXP. 08-31-2025 CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MECHANICAL ROOF PLAN

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 09-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
6.0

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 1 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

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

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	1440
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 2 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

C. COMPLIANCE RESULTS

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

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
No	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		DOES NOT COMPLY
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 3 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / C-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	140.88	54.86	72.36	110.15	46.32	92.55	98.75

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

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / C-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 4 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / C-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	2	3600	BHP	0.66	N/A	
Total System Design Supply Airflow (CFM):			3600	Total System Design (B)HP:	1.32	Maximum System Fan Power (B)HP:	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*
[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / C-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 5 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

I. SYSTEM CONTROLS

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)*

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3&8 for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06			07
System Name	HP-1 / C-1	System Design OA CFM Airflow[1]		547	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower/ heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom C1	Lecture/ postsecondary classroom	1440			547.2	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				547	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*
[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 6 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.
[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems: HP-1 / C-1 | Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐ Outdoors
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐ In an unconditioned crawl space
		☐ In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 7 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 8 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld C	Report Page: (Page 9 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.10 15:32:59-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.10 15:33:14-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

REGISTERED PROFESSIONAL ENGINEER — MARK BASKIN — No. M26578 — 12-31-2024 — MECHANICAL — STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SCA architect inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT — STEPHEN J. CORBIN — C-16270 — Exp. 12/31/2024 — STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'C'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.0

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 1 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

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

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	1320
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-12-10 15:42:40

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 2 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-12-10 15:42:40

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 3 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-2 / D-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	75.87	63.55	36.18	67.29	55.3	85.3	87.99

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-2 / D-1	>=65,000 and <135,000		COP	3.3	3.6	EER IEER	11 12.2	11.2 15

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 4 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-2 / D-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	2100	BHP	0.83	N/A	
Total System Design Supply Airflow (CFM):			2100	Total System Design (B)HP:	0.83	**Maximum System Fan Power (B)HP:**	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-2 / D-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 5 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

I. SYSTEM CONTROLS

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3&8 for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06			07
System Name	HP-2 / D-1	System Design OA CFM Airflow[1]		502	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower/ heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Exh. Vent per §120.1(c)4 Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom D1	Lecture/ postsecondary classroom	1320			501.6	0	0	DCV: Provided per §120.1(d)4 Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				502	18	Ventilation for this System Complies?	Yes

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

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

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 6 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

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

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

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

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:	HP-2 / D-1	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space
	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

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Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM07;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM07;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM07;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM07;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM07;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM07;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM07;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld D	Report Page: (Page 9 of 9)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Mark Baskin	Mark Baskin, P.E. 2022.12.10 15:44:02-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Mark Baskin, P.E.	Mark Baskin, P.E. 2022.12.10 15:44:22-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

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

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REGISTERED PROFESSIONAL ENGINEER — MARK JAMES BASKIN — No. M26578 — 12-31-2024 — MECHANICAL — STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCI inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT — STEPHEN J. CORBIN — C-16782 — REN. 08/31/2024 — STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'D'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.1

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 1 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

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

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	1920
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

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Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 2 of 11)
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C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / E-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.68	46.32	63.34	65.49
HP-1 / E-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.67	46.32	63.34	64.59

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(h).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / E-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

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

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / E-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / E-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):		1800	Total System Design (B)HP:		0.66	**Maximum System Fan Power (B)HP:**	

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 5 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP-1 / E-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):		1800	Total System Design (B)HP:		0.66	**Maximum System Fan Power (B)HP:**	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / E-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / E-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 6 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04	05			06		07
System Name	HP-1 / E-1	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom E1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4; Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes
04	05			06		07		
System Name	HP-1 / E-2	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	16

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 7 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Classroom E2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes

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

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

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

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

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

[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 8 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

The answers to the questions below apply to the following duct systems:		HP-1 / E-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code		

The answers to the questions below apply to the following duct systems:		HP-1 / E-2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code		

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld E	Report Page: (Page 9 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-12-10 16:12:58

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'E'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

7.2

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.15 16:14:01 -08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA / HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.10 16:14:15 -08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'E'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.3

bme BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld F	Report Page: (Page 1 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

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

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	3840
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld F	Report Page: (Page 2 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld F	Report Page: (Page 3 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / F-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.68	46.32	63.34	65.49
HP-1 / F-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.66	46.32	60.49	62.98
HP-1 / F-3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.66	46.32	60.49	62.98
HP-1 / F-4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.67	46.32	63.34	64.59

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld F	Report Page: (Page 4 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / F-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / F-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / F-3	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / F-4	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / F-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld F	Report Page: (Page 5 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP-1 / F-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

System Name:	HP-1 / F-3	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

System Name:	HP-1 / F-4	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1] §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / F-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / F-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / F-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / F-4	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP-1 / F-1	System Design OA CFM Airflow[1]		365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot Item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Classroom F1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	HP-1 / F-2	System Design OA CFM Airflow[1]		365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot Item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Classroom F2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes

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

04		05			06			07	
System Name	HP-1 / F-3	System Design OA CFM Airflow[1]		365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot Item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Classroom F3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	HP-1 / F-4	System Design OA CFM Airflow[1]		365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot Item Tag	Mechanical Ventilation Required per §120.1(c)3 [3] Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4 Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Classroom F4	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes

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

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

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

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

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

[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

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K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems: HP-1 / F-1 | Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCH inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16784 EXP. 08-31-2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'F'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK S. BASKIN No. M26577 EXP. 09-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.4

L. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15			The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes		Duct system shall be sealed in accordance with the California Mechanical Code
The answers to the questions below apply to the following duct systems:		HP-1 / F-2	Duct leakage testing triggered for these systems? No
11	No		The scope of the project includes only duct systems serving healthcare facilities
12	Yes		Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes		The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No		The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space
		☐	In other unconditioned spaces
15			The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes		Duct system shall be sealed in accordance with the California Mechanical Code
The answers to the questions below apply to the following duct systems:		HP-1 / F-3	Duct leakage testing triggered for these systems? No
11	No		The scope of the project includes only duct systems serving healthcare facilities
12	Yes		Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes		The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No		The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE | **NRCC-MCH-E**
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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15			The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes		Duct system shall be sealed in accordance with the California Mechanical Code
The answers to the questions below apply to the following duct systems:		HP-1 / F-4	Duct leakage testing triggered for these systems? No
11	No		The scope of the project includes only duct systems serving healthcare facilities
12	Yes		Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes		The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No		The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space
		☐	In other unconditioned spaces
15			The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes		Duct system shall be sealed in accordance with the California Mechanical Code

M. COOLING TOWERS

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-10 16:25:23

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE | **NRCC-MCH-E**
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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-10 16:25:23

STATE OF CALIFORNIA
Mechanical Systems
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
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Project Address: 2400 Truxton Ave. | **Date Prepared:** 12/10/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-10 16:25:23

STATE OF CALIFORNIA
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Project Address: 2400 Truxton Ave. | **Date Prepared:** 12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022.12.10 16:26:13-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022.12.10 16:26:27-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-10 16:25:23

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'F'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

7.5

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld G	Report Page: (Page 1 of 14)
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This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	2880
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

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C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / G-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.68	46.32	63.34	65.49
HP-1 / G-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.66	46.32	60.49	62.98
HP-1 / G-3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.67	46.32	63.34	64.59

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

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / G-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / G-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / G-3	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / G-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02		03	04	05	06	07	08
Fan Name or Item Tag	Fan Function		Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
SF	Supply		1	1800	BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	0.66	Maximum System Fan Power (B)HP:		

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP-1 / G-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02		03	04	05	06	07	08
Fan Name or Item Tag	Fan Function		Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
SF	Supply		1	1800	BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	0.66	Maximum System Fan Power (B)HP:		

System Name:	HP-1 / G-3	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02		03	04	05	06	07	08
Fan Name or Item Tag	Fan Function		Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
							Device	Design Airflow through Device (CFM)
SF	Supply		1	1800	BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	0.66	Maximum System Fan Power (B)HP:		

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*
[2] *The unit used for HP must be consistent for all fans within a system.*

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I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / G-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / G-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / G-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*
*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.
Nonresidential and Hotel/ Motel Ventilation Systems		

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J. VENTILATION AND INDOOR AIR QUALITY

04	05			06		07
System Name	HP-1 / G-1	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4			
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom G1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

04	05			06		07
System Name	HP-1 / G-2	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4			
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom G2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04	05			06		07
System Name	HP-1 / G-3	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4			
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom G3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*
[2] *Air filtration requirements apply to the following three system types per §120.1(c)14 : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*
[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*
[4] *See Standards Tables 120.1-A and 120.1-B.*
[5] *For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.*
[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

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L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:		HP-1 / G-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code		

The answers to the questions below apply to the following duct systems:		HP-1 / G-2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCH inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT — STEPHEN J. CORBIN — No. C-16788 — RENEWAL 08/31/2025 — STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'G'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER — MARK J. BASKIN — No. M26577 — EXP. 09-30-24 — MECHANICAL — STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.6

STATE OF CALIFORNIA
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I. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:		HP-1 / G-3	Duct leakage testing triggered for these systems? No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space
		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	

M. COOLING TOWERS
This section does not apply to this project.

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld G	Report Page:	(Page 14 of 14)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022.12.10 17:09:50-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022.12.10 17:10:05-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

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

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STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld G	Report Page:	(Page 12 of 14)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

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

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16788 Exp. 12/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'G'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26578 Exp. 09-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.7

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 1 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

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

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	1920
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

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

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 2 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 3 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / H-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.68	46.32	63.34	65.49
HP-1 / H-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.67	46.32	63.34	64.59

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / H-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

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

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STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 4 of 11)
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / H-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / H-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):		1800	Total System Design (B)HP:		0.66	**Maximum System Fan Power (B)HP:**	

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

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STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 5 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP-1 / H-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66	N/A	N/A
Total System Design Supply Airflow (CFM):		1800	Total System Design (B)HP:		0.66	**Maximum System Fan Power (B)HP:**	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / H-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / H-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 6 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04	05			06		07
System Name	HP-1 / H-1	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11 12	13	14 15	16

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Classroom H1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

04	05			06		07
System Name	HP-1 / H-2	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10 11	12	13 14	15	16

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

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 7 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Classroom H2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

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

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

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

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

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

[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

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

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

The answers to the questions below apply to the following duct systems:		HP-1 / H-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐	Outdoors	
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐	In an unconditioned crawl space	
		☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code		

The answers to the questions below apply to the following duct systems:		HP-1 / H-2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐	Outdoors	
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐	In an unconditioned crawl space	
		☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code		

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld H	Report Page: (Page 9 of 11)
Project Address:	2400 Truxton Ave.	Date Prepared: 12/10/2022

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

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

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'H'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

7.8

REGISTERED PROFESSIONAL ENGINEER — MARK JAMES BASKIN — No. M26577 — EXP. 6-30-24 — MECHANICAL — STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Franklin Elementary HVAC Upgrades Bld H	**Report Page:**	**(Page 10 of 11)**
Project Address:	2400 Truxton Ave	**Date Prepared:**	12/10/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Franklin Elementary HVAC Upgrades Bld H	**Report Page:**	**(Page 11 of 11)**
Project Address:	2400 Truxton Ave.	**Date Prepared:**	12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022.12.10 17:08:18-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022.12.10 17:08:30-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C15782 EXP. 12/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'H'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26578 EXP. 09-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.9

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.		
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 1 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area	3840
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 2 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

C. COMPLIANCE RESULTS

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

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

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 3 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / I-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.68	46.32	63.34	65.49
HP-1 / I-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.66	46.32	60.49	62.98
HP-1 / I-3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.66	46.32	60.49	62.98
HP-1 / I-4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.67	46.32	63.34	64.59

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 4 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / I-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / I-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / I-3	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / I-4	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HP-1 / I-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 5 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP-1 / I-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

System Name:	HP-1 / I-3	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

System Name:	HP-1 / I-4	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)		HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (BJHP:		0.66	Maximum System Fan Power (BJHP:	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 6 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1] §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / I-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / I-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / I-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / I-4	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check this box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check this box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.
Nonresidential and Hotel/ Motel Ventilation Systems		

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 7 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

04	05			06			07	
System Name	HP-1 / I-1	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom I1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4 / Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

04	05			06			07	
System Name	HP-1 / I-2	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom I2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4 / Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-12-10 17:12:56

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 8 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

04	05			06			07	
System Name	HP-1 / I-3	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom I3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4 / Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

04	05			06			07	
System Name	HP-1 / I-4	System Design OA CFM Airflow[1]	365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		
Space Name ot Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Classroom I4	Lecture/ postsecondary classroom	960			364.8	0	0	DCV: Provided per §120.1(d)4 / Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?	Yes

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

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	**Report Page:** (Page 9 of 15)
Project Address:	2400 Truxton Ave.	**Date Prepared:** 12/10/2022

J. VENTILATION AND INDOOR AIR QUALITY

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

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

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

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

[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:		HP-1 / I-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		

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

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DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT — STEPHEN J. CORBIN — C-16782 — EXP. 08-31-2023 — STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'I'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER — MARK JAMES BASKIN — No. M26577 — EXP. 03-30-24 — MECHANICAL — STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

M
7.10

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 10 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	

The answers to the questions below apply to the following duct systems:	HP-1 / I-2	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space
		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	

The answers to the questions below apply to the following duct systems:	HP-1 / I-3	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 11 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	

The answers to the questions below apply to the following duct systems:	HP-1 / I-4	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐	Outdoors
		☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐	In an unconditioned crawl space
		☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	

M. COOLING TOWERS

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 12 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 13 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 14 of 15)
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06; Carrier 50GCQM06;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

	01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Franklin Elementary HVAC Upgrades Bld I	Report Page:	(Page 15 of 15)
Project Address:	2400 Truxton Ave.	Date Prepared:	12/10/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022.12.10 17:13:42-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-10
Address: 175 Fulton St.	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: 5592370376

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: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022.12.10 17:13:57-08'00'
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-10
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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REGISTERED PROFESSIONAL ENGINEER ADAM JAMES BASKIN No. M26578 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

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DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCH inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16728 EXPIRATION 11/30/23 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'I'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

7.11

Equipment Anchorage Notes:

All Mechanical, Plumbing, and Electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be restrained in a manner approved by DSA.

The following Mechanical and Electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all Mechanical, Electrical and Plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5., 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP ☐ MD ☐
PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☐
PP ☑ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) #Tolco/B-line OPM-052.

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2019 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-2.
Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2019 California Energy Code, Title 24, C.C.R.
Part 9 - 2019 California Fire Code, Title 24, C.C.R.
Part 11- 2019 California Green Building Standards Code. Title-24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

PLUMBING LEGEND

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESSIBLE	G.W.	GRD.	GRADE
	A.D.	ACCESS DOOR/WALL BOX		G.W.	GREASE WASTE
	A.F.F.	ABOVE FINISHED FLOOR		H.B.	HOSE BIBB
	C.D.	CONDENSATE DRAIN		H.V.(A-C)	AIR CONDITIONING EQPT.
	C.I.	CAST IRON		L.	LAVATORY
	CLG.	CEILING		LOC.	LOCATION
	C.O.	CLEANOUT		(N)	NEW
	COMB.	COMBUSTION		N.I.C.	NOT IN CONTRACT
	CONN.	CONNECTION		P.O.C.	POINT OF CONNECTION
	CONT.	CONTINUATION		PROV.	PROVIDE
	COTG	CLEANOUT TO GRADE		P.R.V.	PRESSURE REDUCING VALVE
	(D)C.W.	(DOMESTIC) COLD WATER		R.D.	ROOF DRAIN
	D.H.	DEMO HATCH		R.W.L.	RAINWATER LEADER
	(D)H.W.	(DOMESTIC) HOT WATER		S.	SINK
	(D)HWR	(DOMESTIC) HOT WATER RETURN		S.&W.	SOIL AND WASTE
	DN.	DOWN		SIM.	SIMILAR
	DRN.	DRAIN		S.O.V.	SHUT OFF VALVE
	(E).	EXISTING		SS	STAINLESS STEEL
	(E)C.W.	EXISTING COLD WATER		S.S.	SERVICE SINK
	(E)H.W.	EXISTING HOT WATER		SURF.	SURFACE
	(E)H.W.R	EXISTING HOT WATER RETURN		T.&P.	TEMPERATURE AND PRESSURE RELIEF
(E)C.D	(E)C.D	EXISTING CONDENSATE DRAIN		T.P.	TRAP PRIMER
	E.D.F.	ELECTRIC DRINKING FOUNTAIN		(TYP)	TYPICAL
	E.W.H.	ELECTRIC WATER HEATER		UR.	URINAL
	F.C.O.	FLOOR CLEANOUT		V.O.	VENT OFFSET
	F.D.	FLOOR DRAIN		V.T.R.	VENT THRU ROOF
	FLR.	FLOOR		(E) W.	EXISTING WASTE
	F.S.	FLOOR SINK		W.	WASTE
G.	G.	GAS		W.C.	WATER CLOSET
(E) G.	(E) G.	EXISTING GAS		W.H.	WATER HEATER
	G.D.	GARBAGE DISPOSAL		W.C.O.	WALL CLEANOUT

Plumbing Fixture Schedule:

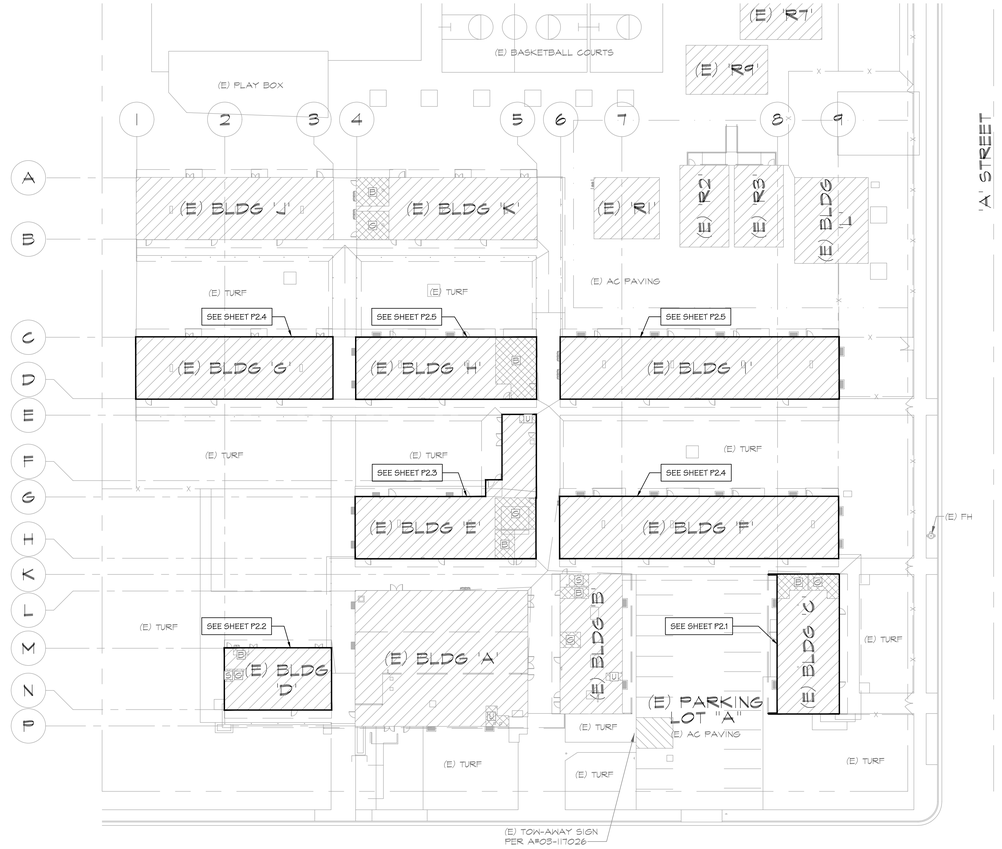
WC-1
Floor mounted F.V. elongated accessible water closet, "Kohler" # K-96057 *Highcliff*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O., (see plan for trap primer accessory)

WC-2
Floor mounted 10" high Kindergarten flush-valve water closet, "American Standard" #2282.010 Baby Devoro, "Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve,"Olsonite" # 126CC open-front white seat, bolt caps, 1-1/4" C.W., (reduce to 1" @ flush-valve), 3" S.&W., 2" V.O., (see plan for trap primer accessory)

L
Wall hung vitreous china accessible lavatory, "Kohler" # K-2867 (20" x 18") Hudson, offset grid drain, "Chicago" #3400-ABCP metering faucet (0.5 GPM), (2) threaded angle wall stops with braided S.S. supplies, 17 ga. C.P. trap/offset tailpiece, 1/2" C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "Zurn" #Z1251 Concealed arm system wall support. (See A/P1.0)

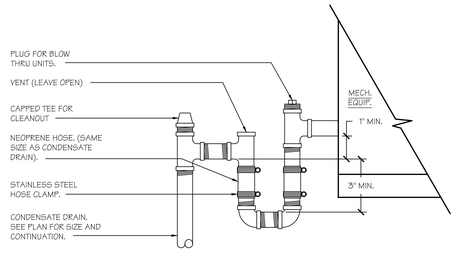
S
Counter mounted 18 ga. stainless steel (22"x19"x5-1/2") accessible single bowl sink with off-center back drain outlet, "Elkay" # LRADQ2219S5, # LKADQS grid drain w/offset tailpiece, "Zurn" # Z825B4-XL-18F gooseneck faucet, (1) threaded angled wall stop with braided S.S. supply, 17 g.a. C.P. trap/tailpiece, 1/2" C.W., 2" W., 1-1/2" V.O., 2" W.C.O.

DF
"Haws" #1501-1920W dual high/low drinking fountain with bottle filler, white enameled iron basins with14 GA. powder-coated type 304 SS bottle filler bracket with "Haws" #6700 backing plate and #6800 support carrier. Refer to the architectural drawings for mounting elevations. 1/2" C.W., 2" W., 2" W.C.O. , 2" V.O.



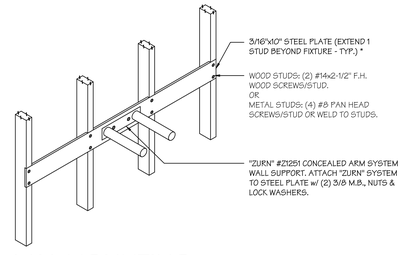
PLUMBING SITE PLAN

SCALE: 1"=30'-0"



CONDENSATE DRAIN CONNECTION — B

SCALE: N.T.S.



LAV. MOUNTING — A

SCALE: N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S.C.A. inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-31678 EXP. 08-31-2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING SITE PLAN

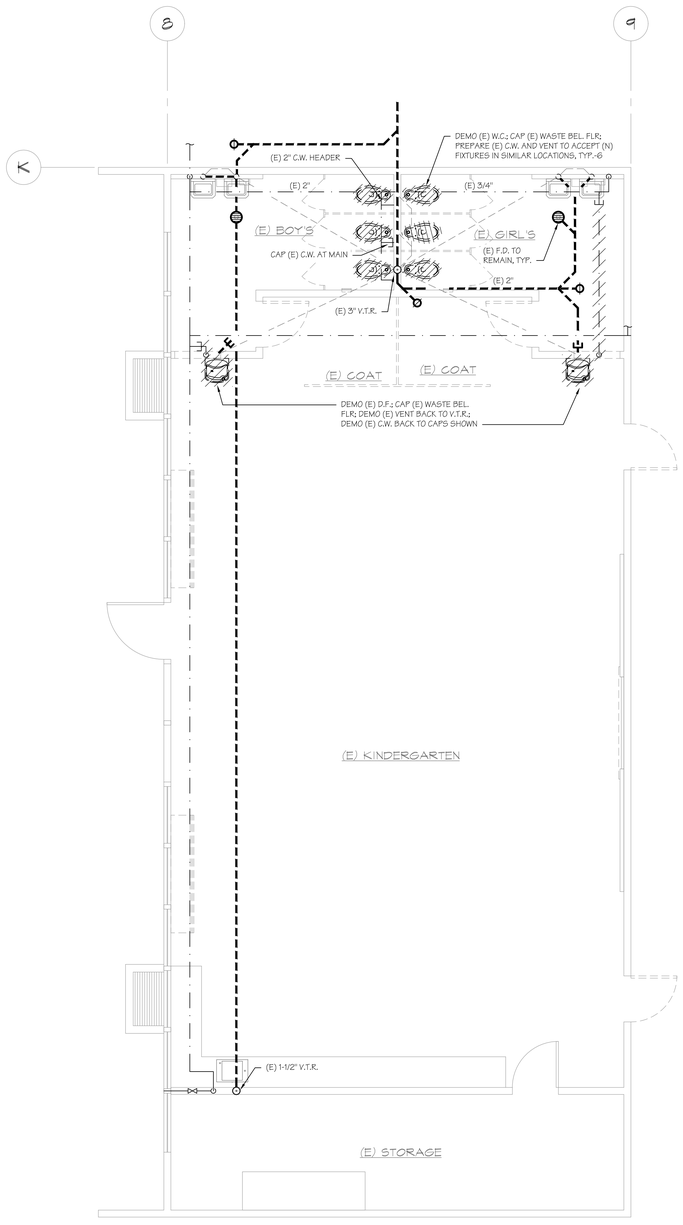
MARK	DATE	REVISIONS
1		
2		
3		

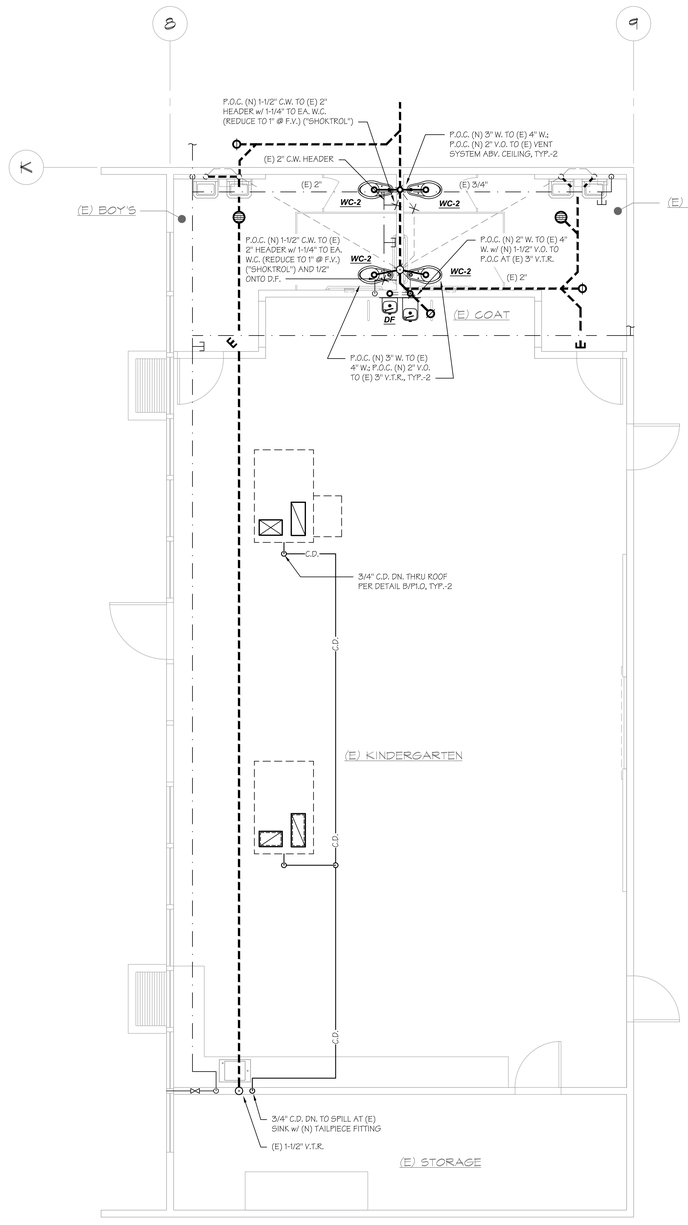
REGISTERED PROFESSIONAL ENGINEER ROBERT JAMES BASKIN No. M26572 EXP. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO.
1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

P
1.0





PLUMBING DEMO PLAN BUILDING 'C'

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

PLUMBING PLAN BUILDING 'C'

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

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FRANKLIN ELEMENTARY SCHOOL

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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16780 REGISTERED CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING PLAN & DEMO PLAN BUILDING 'C'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER JAMES "BRADLEY" BASKIN No. M26577 6-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

P

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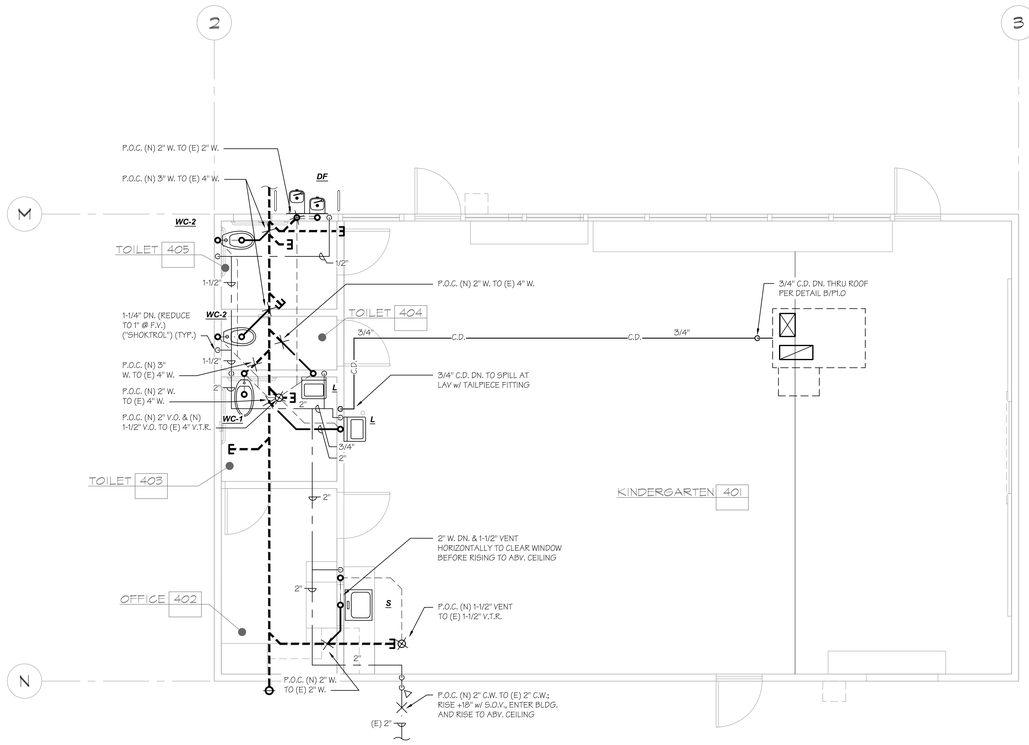

PLUMBING PLAN BUILDING 'D'

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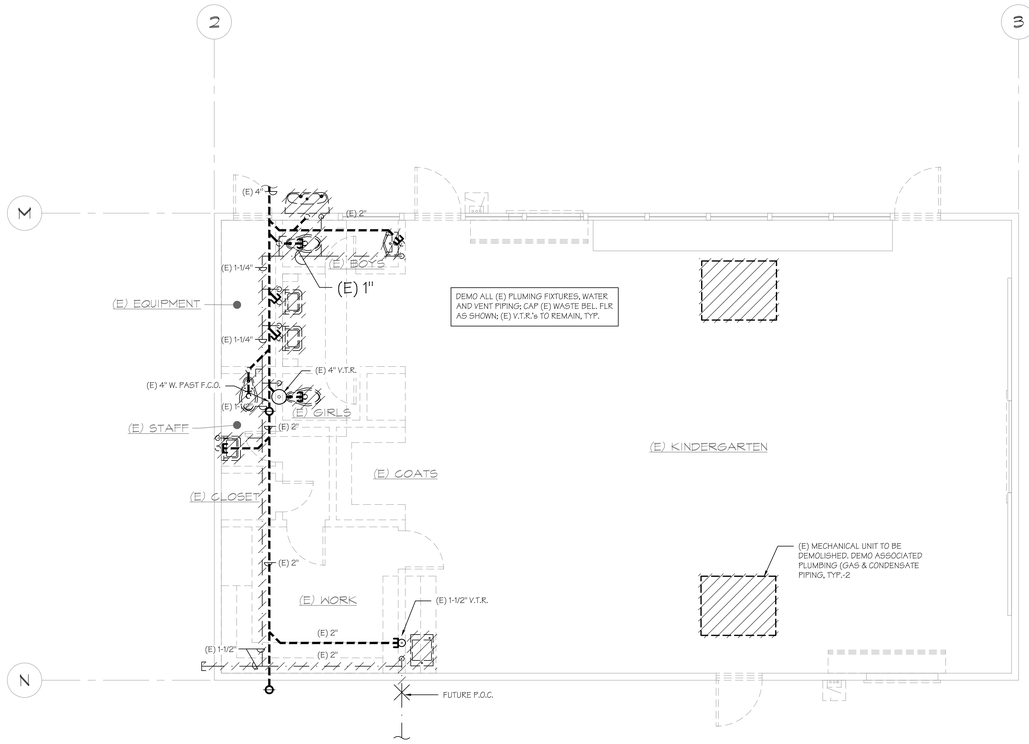

PLUMBING DEMO PLAN BUILDING 'D'

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

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FRANKLIN ELEMENTARY SCHOOL
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2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STATE OF CALIFORNIA No. C-14278 EXP. 11/30/25
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING PLAN AND DEMO PLAN BUILDING 'D'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER JAMES BASKIN No. M26577 EXP. 6-30-24 MECHANICAL STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

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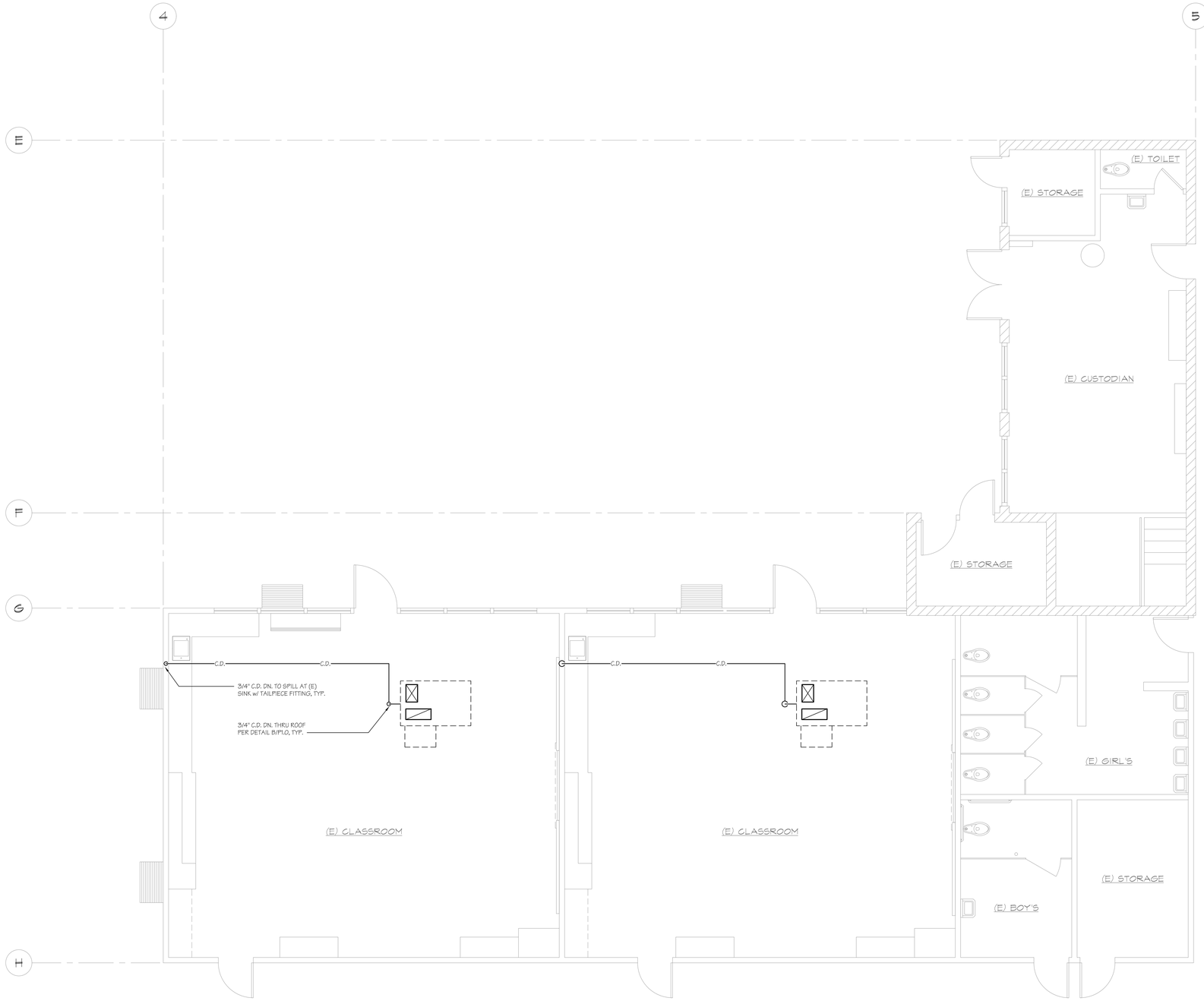

PLUMBING PLAN BUILDING 'E'

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

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SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL

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FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-14276 Exp. 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING
PLAN
BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

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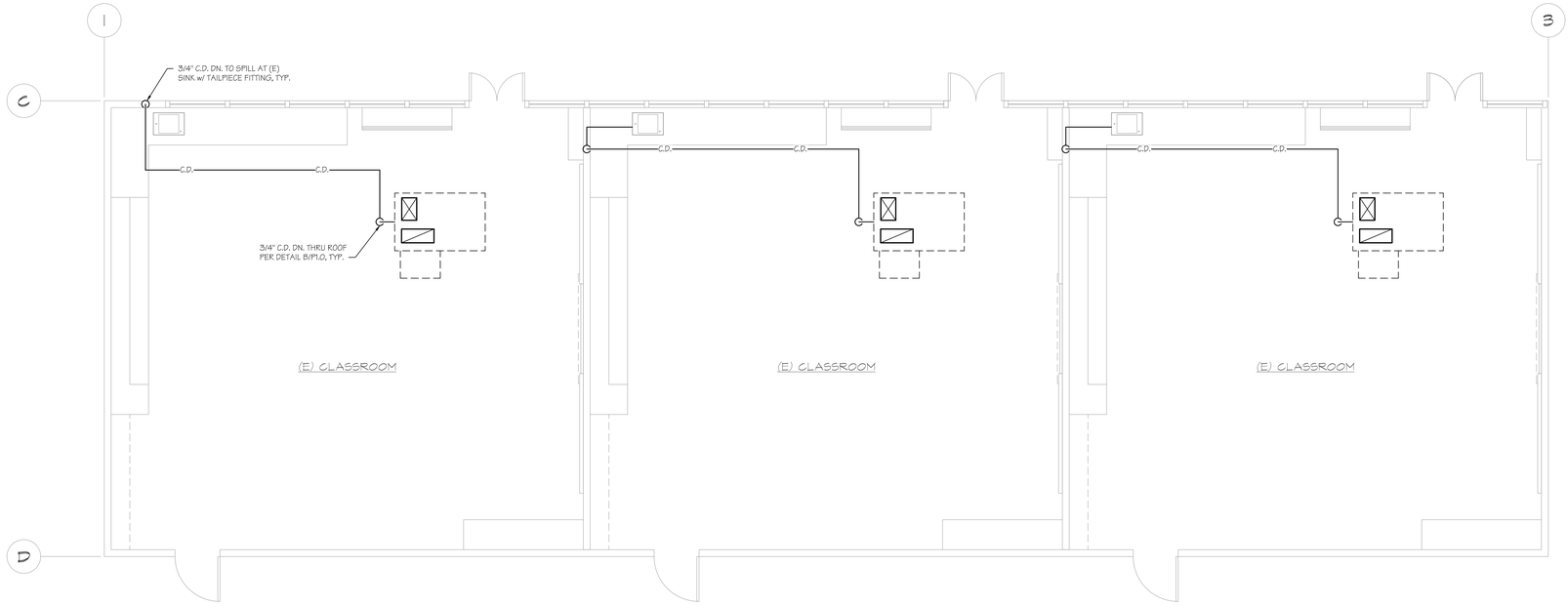
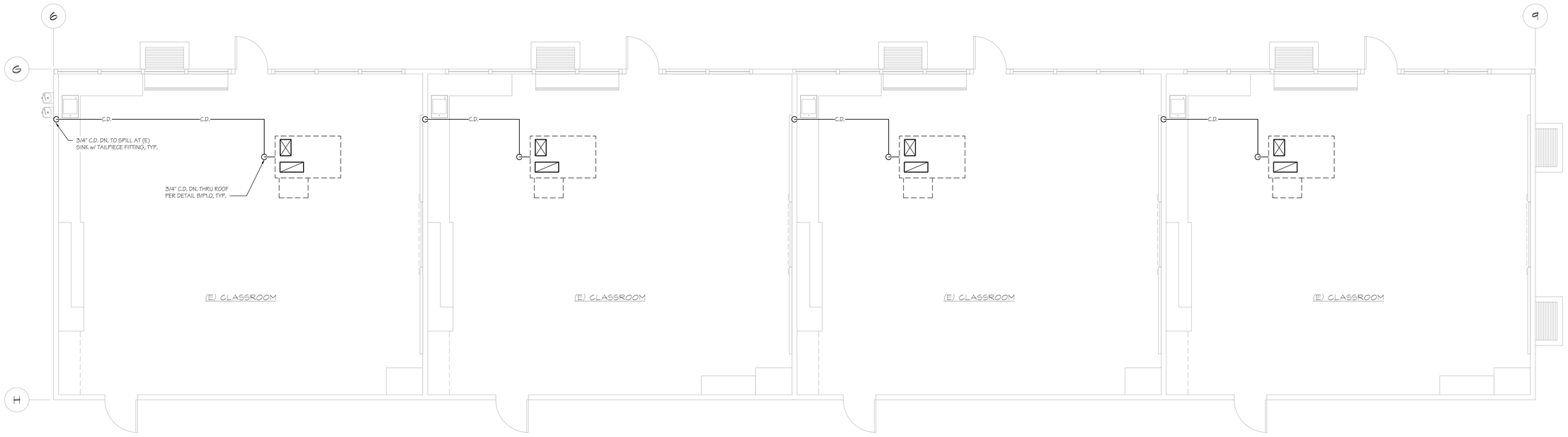


PLUMBING PLAN BUILDING 'G'

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



PLUMBING PLAN BUILDING 'F'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321- FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL

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FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16284 EXP. 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING
PLAN BUILDING
'F' & 'G'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
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P

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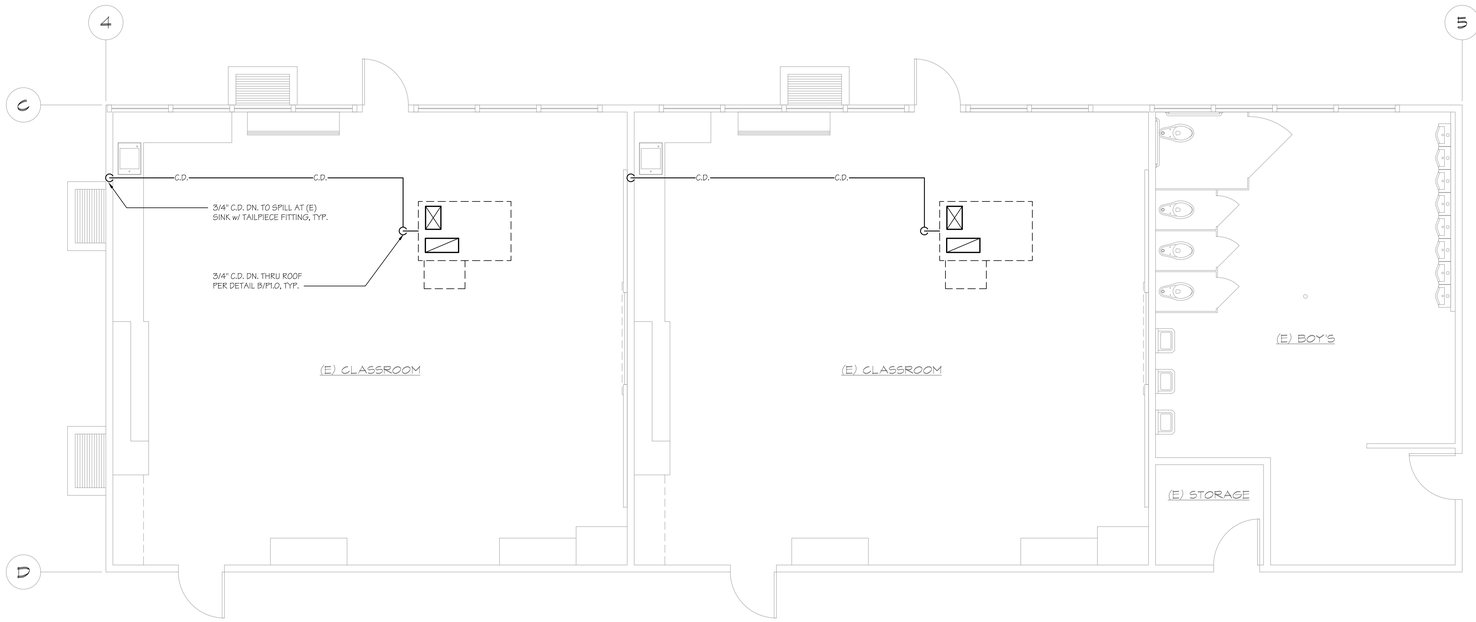
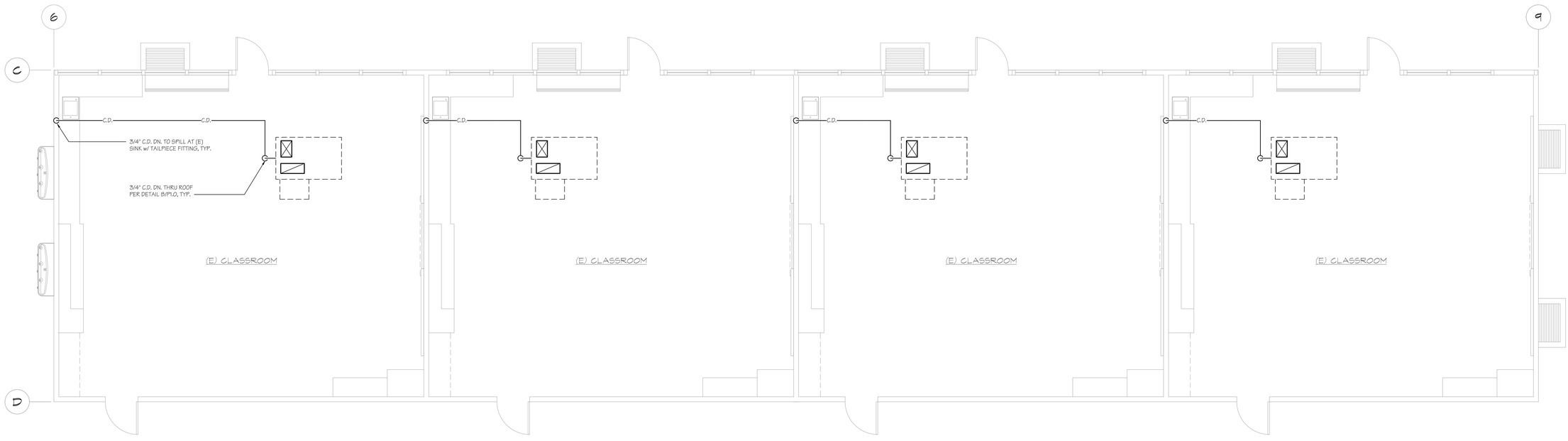


PLUMBING PLAN BUILDING 'H'

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



PLUMBING PLAN BUILDING 'I'

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

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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN C-16736 EXP. 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING
PLAN BUILDING
'H' & 'I'

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21145
Plt: 03-21-23

JOB NO. 1316
DRAWN : B.S.
CHECKED : M.B.
DATE : 7/26/21

P

2.5

GENERAL ELECTRICAL NOTES

1. PROVIDE MINIMUM 36" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W (PER CEC-110.26).
2. PROVIDE MINIMUM 42" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 480/277V 3Ø 4W (PER CEC-110.26).
3. PROVIDE MINIMUM 30" WIDE WORK SPACE FOR PANELS, SERVICE OR EQUIPMENT 15" FROM BUS BAR TO OBSTRUCTION (PER CEC-110.26).
4. SPECIFY THAT ONLY LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING (PER CEC-110.3(B)).
5. SWITCHES SHALL BE MOUNTED A MAXIMUM OF 48" TO THE TOP OF BOX. RECEPTACLES SHALL BE MOUNTED A MINIMUM OF 15" TO THE BOTTOM OF BOX PER CBC 2019 SECTION 11B-308.
6. HVAC CIRCUIT BREAKERS SHALL BE RATED HACR.
7. ALL SERVICE EQUIPMENT TO BE SUITABLE FOR AVAILABLE SHORT CIRCUIT CURRENT PER CEC ART 110.9.
8. PERMANENTLY DELINEATE ON THE FLOOR WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT WITH THE WORDING "NO STORAGE IN THIS AREA"
9. PRIOR TO ORDERING THE SWITCHGEAR, THE ELECTRICAL CONTRACTOR SHALL COORDINATE A.I.C. RATINGS OF SWITCHBOARDS AND PANEL BOARDS WITH UTILITY COMPANY REQUIREMENTS. EVIDENCE OF SUCH COORDINATION SHALL BE AVAILABLE ON SITE FOR REVIEW BY CITY BUILDING INSPECTOR.
10. SWITCHBOARDS AND PANEL BOARDS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS AND IDENTIFIED WITH THE APPROPRIATE ARC FLASH PROTECTION RATING PERSONAL PROTECTIVE EQUIPMENT (PPE) SIGNAGE (PER CEC ART. 110.16).
11. CONTRACTOR IS TO PROVIDE ENGRAVED NAMEPLATES ON EACH SERVICE PANEL, TRANSFORMER, DISCONNECT SWITCH MOTOR STARTER, ETC. (PER CEC-110.3).
12. CONTRACTOR WILL BE REQUIRED TO PROVIDE A LABEL PER CEC ARTICLE 408.4(A). PROVIDE TYPED PANEL BOARD DIRECTORIES. PANEL BOARDS SHALL ALSO BE MARKED COMPLIANT WITH CEC 408.4(B) FOR ORIGINATED SOURCE OF POWER.
13. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN 6 FEET OF THE FLOOR OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF ELECTRICAL EQUIPMENT (PER CEC ART. 110.26).
14. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, SUCH AS HANDLE-TIES AND MULTI-POLE BREAKERS (PER CEC- 210.4(B)).
15. THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT (CFC-605.3.1).
16. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2019
CALIFORNIA ELECTRICAL CODE	2019
NON RESIDENTIAL CEC ENERGY STANDARDS	2019

17. PROVIDE THE MAIN SERVICE EQUIPMENT ROOM EGRESS DOOR, WITH THE REQUIRED DIRECTION OF THE DOOR SWING AND THE REQUIRED DOOR HARDWARE. ART.110.26(C)(3).

GENERAL COORDINATION NOTES

1. Prior to commencing construction the Contractor shall carefully examine the site and existing conditions, compare the Drawings with the existing electrical installations and thoroughly familiarize themselves with all existing conditions within the scope of this work. The Contractor shall inform the Electrical Engineer in writing when this process is complete and if any discrepancies are noticed.

2. Mechanical Coordination: Prior to commencing construction, the Contractor shall arrange a conference with the Mechanical/Plumbing Contractors and equipment suppliers to verify type, sizes, locations, requirements, controls and diagrams of all equipment furnished by them. In writing, he shall inform the Electrical Engineer that all phases of coordination of this equipment have been covered. If any unusual conditions or problems are noticed, they are to be enumerated at this time.

MEP Component Anchorage Note:

All mechanical, plumbing , and 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 the force and displacement requirements prescribed in the 2019 CBC Sections. 1617A.1.18 through 1617A.1.26 and ASCE 7 -16 Chapter 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 electricity, gas or water. "Permenantly attached" shall include all electrical connections except plugs for 110/220 volt receptacles having flexible cable.
3. Temporary, movable equipment or mobile equipment which is heavier than 400 lbs 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 traverse and longitudinal directions

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage for all mechanical, electrical and plumbing components shall be subject to approval of the design professional in general responsible charge or Structural Engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

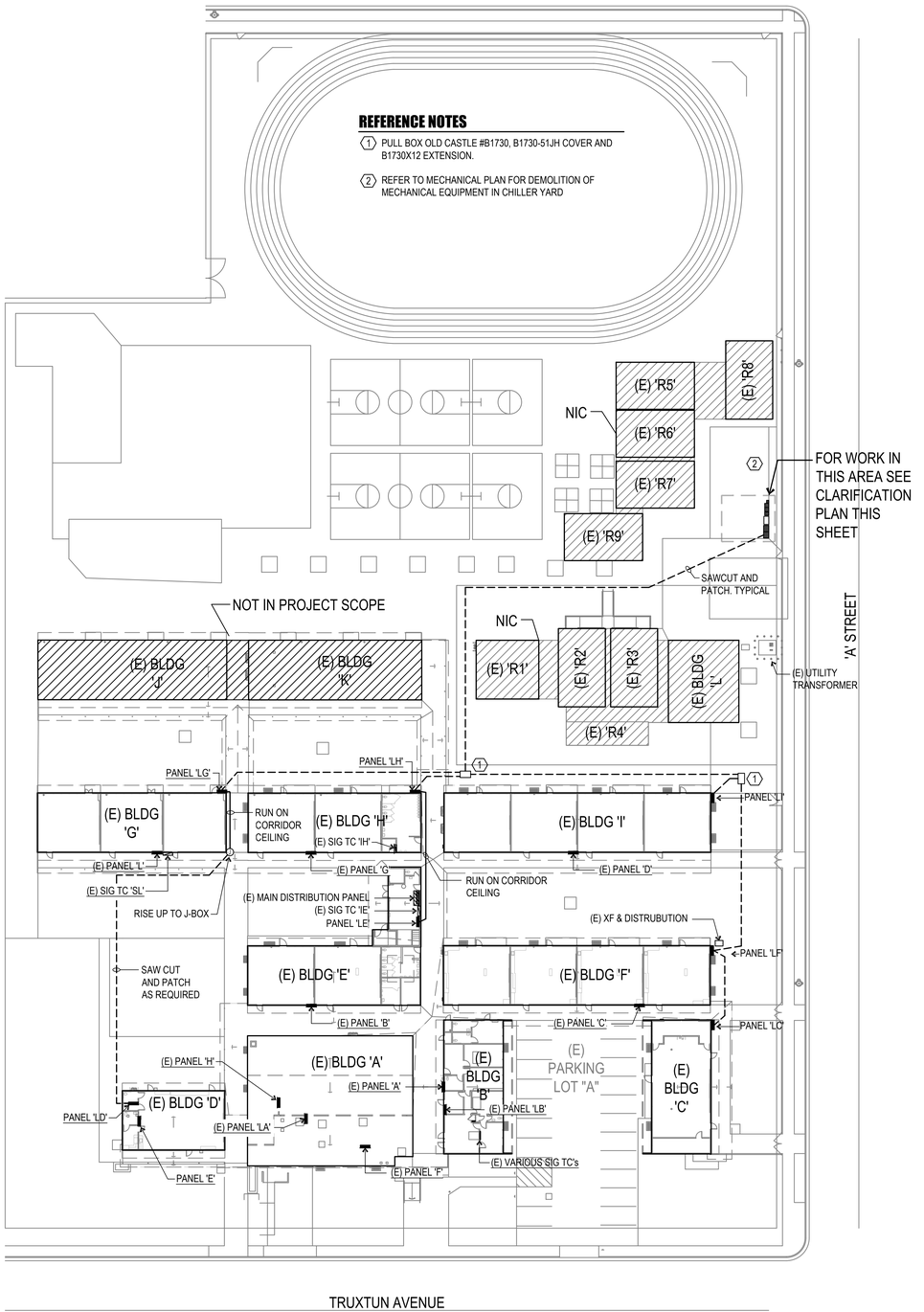
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5., 13.6.6, 13.6.7, 13.6.8 and 2019 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g. OSHPD OPM for 2013 CBC or later), Copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems(E):

MP☐ MD☐ PP☐ E☒ Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐ MD☐ PP☐ E☐ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #OPM-0052-13



ELECTRICAL SITE PLAN

-

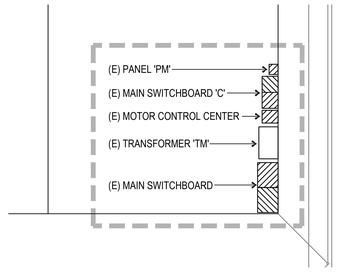
SCALE : 1" = 30'-0"

0 15' 30' 45' 60' 90'

NORTH

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION
D 90	FIXTURE TYPE "D" AND WATTAGE "90"	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	LED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	RECESSED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
EM SD	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	ILLUMINATED EXIT SIGN	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	OCCUPANCY MOTION SENSOR	ABL-nLIGHT
W	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +44" TO TOP OF BOX, U.O.N.	ABL-SENSOR SWITCH
N	OCCUPANCY SENSOR, CEILING MOUNTED - NETWORK	ABL-nLIGHT
	OCCUPANCY SENSOR SWITCHPACK	
$	WALL SWITCH @+45" AFF MAX. TO TOP OF BOX.	AC QUIET TYPE, 20A, 277V
$3	WALL SWITCH, 3-WAY @+45" AFF MAX. TO TOP OF BOX.	AC QUIET TYPE, 20A, 277V
$SC	"SOLATUBE" CONTROL SWITCH @+45" AFF MAX. TO TOP OF BOX	PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
$M	WALL MOTION DIMMER SWITCH	ABL nLIGHT
$WC	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER	ABL-nLIGHT
$WC	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER WITH INTEGRAL OCCUPANCY SENSOR	ABL-nLIGHT
2$WC	WALL MOTION DIMMER SWITCH 2 ZONE ON / OFF + RAISE / LOWER	ABL-nLIGHT
4$WC	WALL MOTION DIMMER SWITCH 4 ZONE ON / OFF + RAISE / LOWER	ABL-nLIGHT
	DUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX, U.O.N.	20A, NEMA GROUNDED
WP	WEATHERPROOF CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX, U.O.N.	20A, NEMA GROUNDED
	QUADDUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX. U.O.N.	20A, NEMA GROUNDED
	ELECTRICAL SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
	TERMINAL CABINET	
	EXHAUST FAN	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
R	120V RELAY WITH 277V COIL	SIZED TO HANDLE EXHAUST FAN LOAD
	MOTOR WITH FUSIBLE DISCONNECT SWITCH, W.P. AS REQ'D	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
J	JUNCTION BOX	4" SQUARE BOX & FLUSH PLATE MINIMUM
	COMMUNICATIONS / DATA OUTLET @ +15" AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	4 11/16" x 2 1/8"D BOX W/ 1 1/2" 2 GANG EXTENSION RING, (2) 1"C STUBS TO ACCESSIBLE ATTIC SPACE. (1) DATA CABLE, (1) VOICE CABLE WITH JACKS MINIMUM
	INTERCOM OUTLET @+15" AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	
	TELEPHONE OUTLET @+15" AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	
S	PA SPEAKER, FLUSH CEILING MOUNTED U.O.N.	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
S WP	EXTERIOR PA SPEAKER WALL MTD @+9'-6" UON (WEATHERPROOF)	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
S C	CLOCK / PA SPEAKER COMBINATION @+7'-6" UON	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
TV	TELEVISION / VIDEO OUTLET	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
B	PROGRAM BELL	
M	SECURITY MICROPHONE MTD ABOVE DOOR U.O.N.	PROVIDED BY SCHOOL DISTRICT, INSTALLED BY E.C.
D	SECURITY DOOR CONTACT	SEE SPECS
	SURFACE RACEWAY W/ OUTLETS & DATA JACKS	WIREMOLD 5400 SERIES SYSTEM. INSTALL DUPLEX / QUADPLEX RECEPTACLES AND DATA JACK AS INDICATED ON PLANS.
PP	POWER PACK 0-10V DIMMING	ABL-nLIGHT
PP	POWER PACK INCANDESCENT DIMMING	ABL-nLIGHT
PLC	PLUG LOAD CONTROLLER	ABL-nLIGHT
	PHOTO SENSOR - 3 ZONE (LOWER CASE LETTER INDICATES CONTROL GROUP)	ABL-nLIGHT
	LOW VOLTAGE SENSOR WIRING, PLENUM RATED	REFER TO DEVICE LITERATURE FOR NUMBER OF CONDUCTORS.
	WIRING BELOW GRADE	3/4" CONDUIT MINIMUM.
	WIRING IN WALL OR CEILING	
		3/4" CONDUIT MINIMUM.
	FLEXIBLE CONDUIT	3/4" CONDUIT MINIMUM.
	CONDUIT STUB AND CAP	
	HASH MARKS DENOTES QUANTITY OF CONDUCTORS	
3-#10	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MINIMUM.
	EXISTING CONDUIT TO REMAIN	
(E)	EXISTING ITEM TO REMAIN	
U.O.N.	UNLESS OTHERWISE NOTED	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	



CLARIFICATION PLAN

-

NOT TO SCALE 1 / E-1.00

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SCARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-15788 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

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6702 N. Cedar Suite 205
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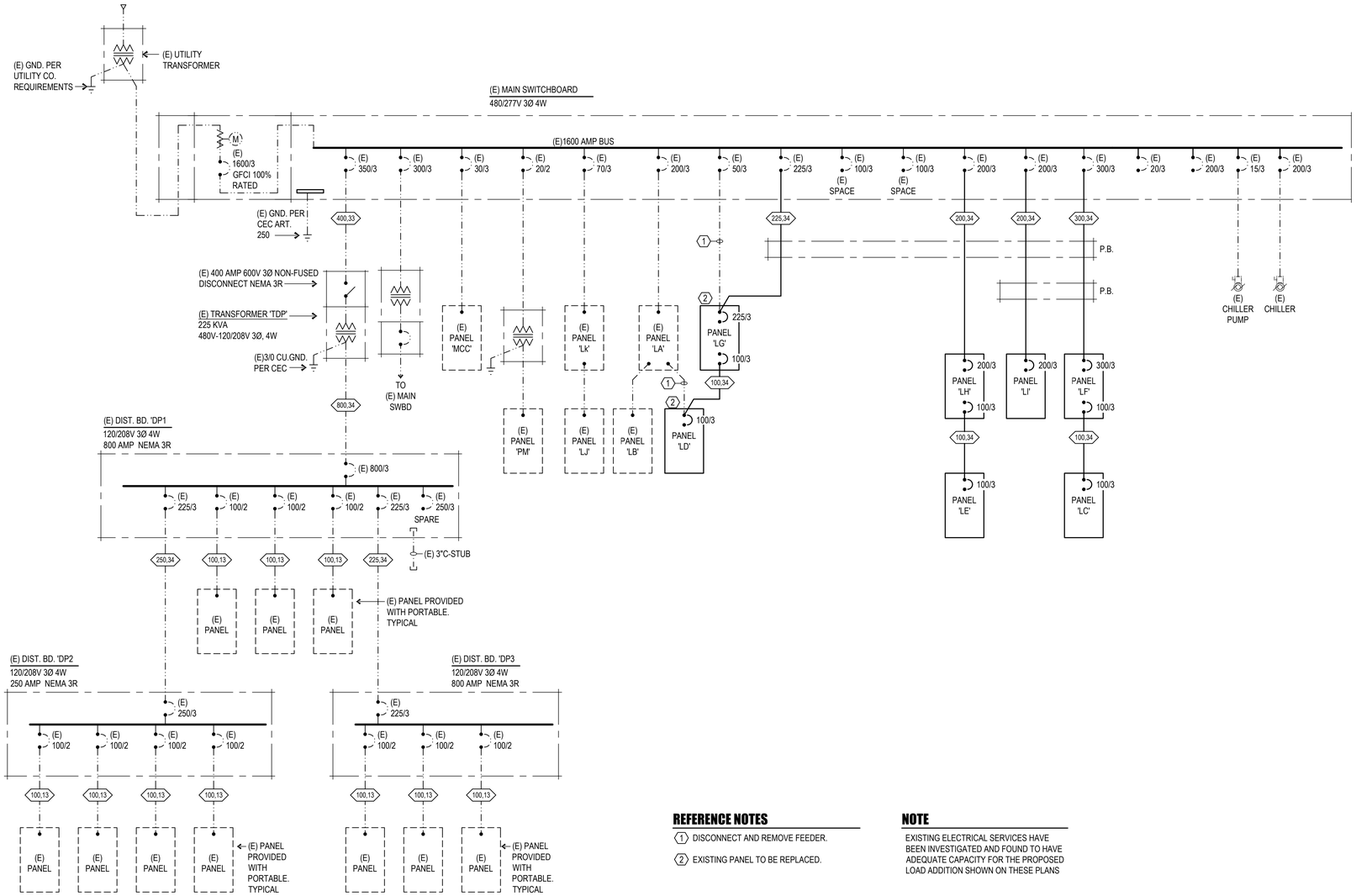
Ph. (559) 276-5144
Fax (559) 903-6929
Email @ dpgengineering.com
REGISTERED PROFESSIONAL ENGINEER VICTOR P. GOYETTE No. E-15731 ELECTRICAL STATE OF CALIFORNIA

ELECT. SITE PLAN, SYMBOL LEGEND, DETAILS AND NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

1.00 OF SHEETS



ELECTRICAL SINGLE LINE DIAGRAM

-

NOT TO SCALE (1 / E1.10)

REFERENCE NOTES

1. DISCONNECT AND REMOVE FEEDER.
2. EXISTING PANEL TO BE REPLACED.

NOTE

EXISTING ELECTRICAL SERVICES HAVE BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS

FEEDER SCHEDULE

AMPS	CONDUIT AND CONDUCTORS (THHN/THWN CU) PVC, EMT OR GRS	1Ø 3W (13)	3Ø 3W (33)	3Ø 4W (34)	3Ø 5W (35)	NYLON PULL LINE (NPL)	GROUNDING (THHN/THWN) COPPER PER CONDUIT
30	3/4"	3 #10	3 #10	4 #10	NA	1	#10
40	3/4"	3 #8	3 #8	4 #8			#10
50	1"	3 #6	3 #6	4 #6			#10
60	1"	3 #6	3 #6	4 #6			#8
70	1 1/4"	3 #4	3 #4	4 #4			#8
80	1 1/4"	3 #3	3 #3	4 #3			#8
90	1 1/4"	3 #2	3 #2	4 #2			#6
100	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
125	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
150	2"	3 #1/0	3 #1/0	4 #1/0	5 #1/0		#6
175	2"	3 #2/0	3 #2/0	4 #2/0	5 #2/0		#4
200	2"	3 #3/0	3 #3/0	4 #3/0	----		#4
225	2 1/2"	3 #4/0	3 #4/0	4 #4/0	5 #4/0		#2
250	3"	3 #250 Kcmil	3 #250 Kcmil	4 #250 Kcmil	5 #250 Kcmil		#2
300	3 1/2"	3 #350 Kcmil	3 #350 Kcmil	4 #350 Kcmil	5 #350 Kcmil		#2
400	4"	3 #600 Kcmil	3 #600 Kcmil	4 #600 Kcmil	5 #600 Kcmil		#1/0
500	(2)3"	3 #250 Kcmil (EA)	3 #250 Kcmil (EA)	4 #250 Kcmil (EA)	5 #250 Kcmil (EA)		#2/0
600	(2)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#2/0
700	(2)4"	3 #500 Kcmil (EA)	3 #500 Kcmil (EA)	4 #500 Kcmil (EA)	5 #500 Kcmil (EA)		#2/0
800	(2)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#2/0
1000	(3)3 1/2"	3 #400 Kcmil (EA)	3 #400 Kcmil (EA)	4 #400 Kcmil (EA)	5 #400 Kcmil (EA)		#3/0
1200	(4)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#3/0
1600	(4)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0
2000	(5)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0

2000,35 — FEEDER AMPS; CONDUCTOR TYPE (3Ø 5W)

NOTE: 3Ø 5W FEEDERS ARE ØA, ØB, ØC AND TWO NEUTRAL CONDUCTORS FOR NON-LINEAR LOAD APPLICATIONS.

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FRANKLIN ELEMENTARY SCHOOL MODERNIZATION

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BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16765 EXPIRATION 08/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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Fax: (559) 900-4929
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REGISTERED PROFESSIONAL ENGINEER TREVOR P. GOYNE Exp. 09/30/22 ELECTRICAL STATE OF CALIFORNIA

ELECTRICAL SINGLE LINE DIAGRAM

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

1.10 OF SHEETS

LIGHTING DEMO NOTE

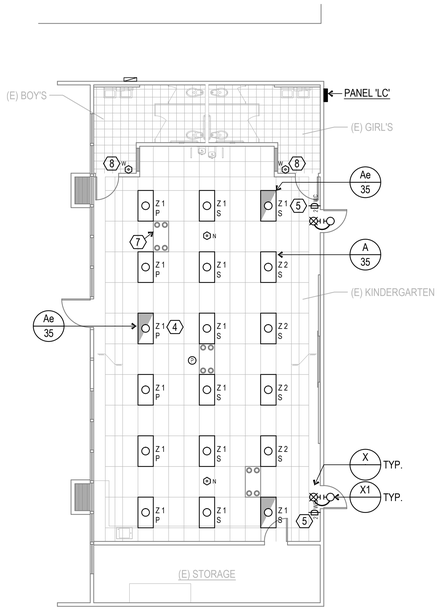
REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

CEILING NOTES

1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
2. REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.

REFERENCE NOTES

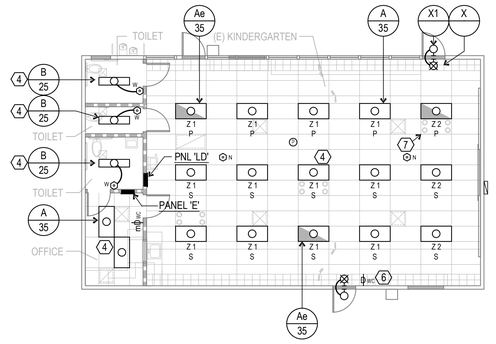
1. REMOVE EXISTING SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
2. REMOVE EXISTING SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
3. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
4. CONNECT TO EXISTING LIGHTING CIRCUIT.
5. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
6. REMOVE EXISTING SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
7. TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.
8. REPLACE EXISTING SWITCH. LOWER EXISTING BOX DOWN TO +45"
9. DISCONNECT AND REMOVE EXISTING SWITCH.



LIGHTING FLOOR PLAN
BUILDING 'C'

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

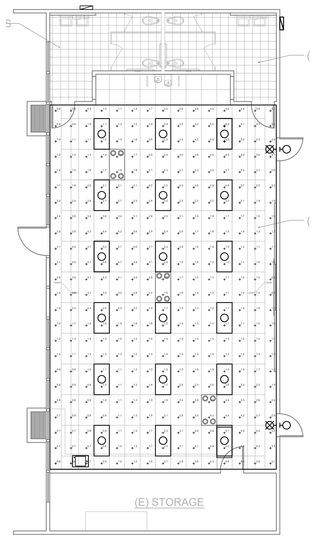
0 4' 8' 12' 16' 24' NORTH



LIGHTING FLOOR PLAN
BUILDING 'D'

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

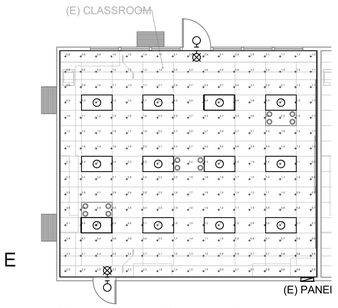
0 4' 8' 12' 16' 24' NORTH



EMERGENCY LIGHTING POINT BY POINT
BUILDING 'C'

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

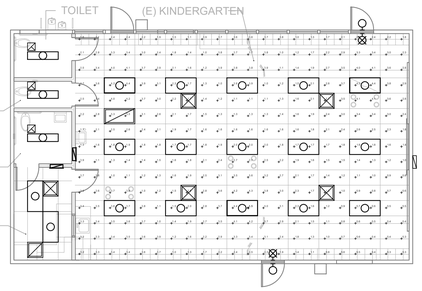
0 4' 8' 12' 16' 24' NORTH



EMERGENCY LIGHTING POINT BY POINT
BUILDING 'E'

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

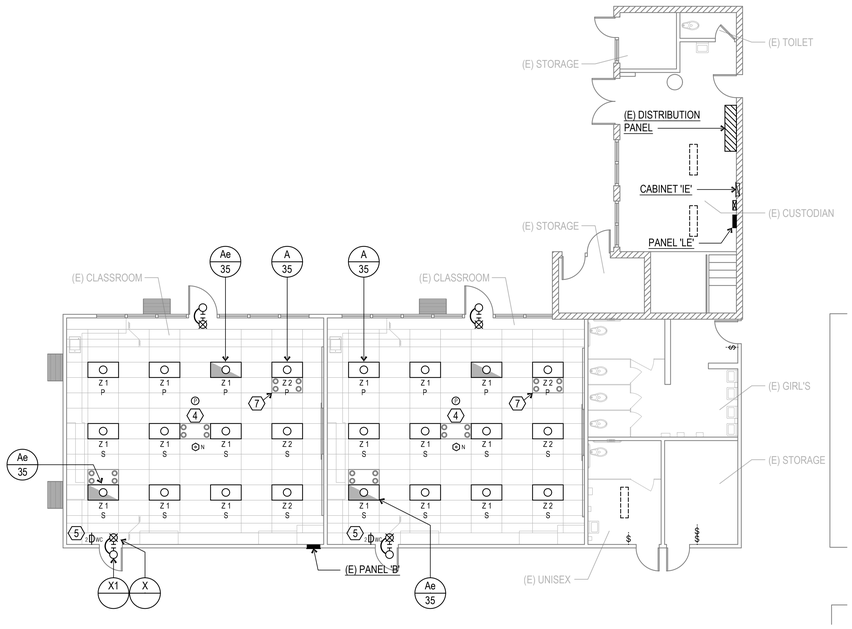
0 4' 8' 12' 16' 24' NORTH



EMERGENCY LIGHTING POINT BY POINT
BUILDING 'D'

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

0 4' 8' 12' 16' 24' NORTH



LIGHTING FLOOR PLAN
BUILDING 'E'

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

0 4' 8' 12' 16' 24' NORTH

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DIV. OF THE STATE ARCHITECT
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FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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LICENSED ARCHITECT STEPHEN J. CORBIN No. 18208 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®.AP

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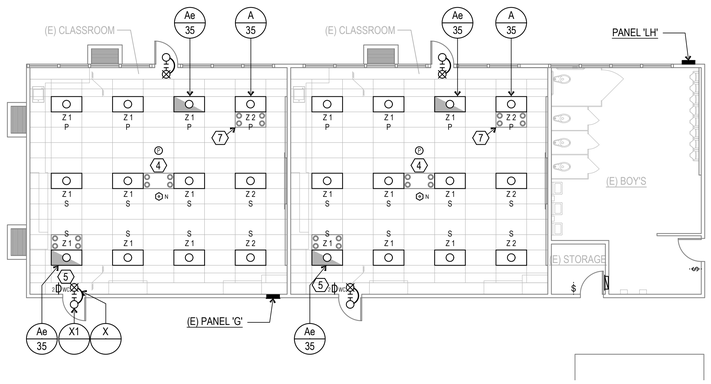
REGISTERED PROFESSIONAL ENGINEER DAVID P. GOLDEN ELECTRICAL STATE OF CALIFORNIA

BLDGS C,D,E
LIGHTING
FLOOR PLANS
AND NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

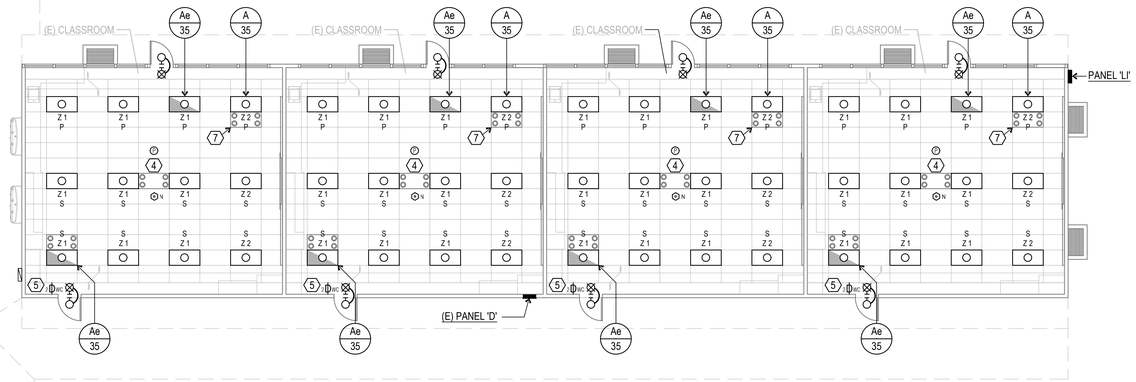
2.10 OF SHEETS



LIGHTING FLOOR PLAN
BUILDING 'H'

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

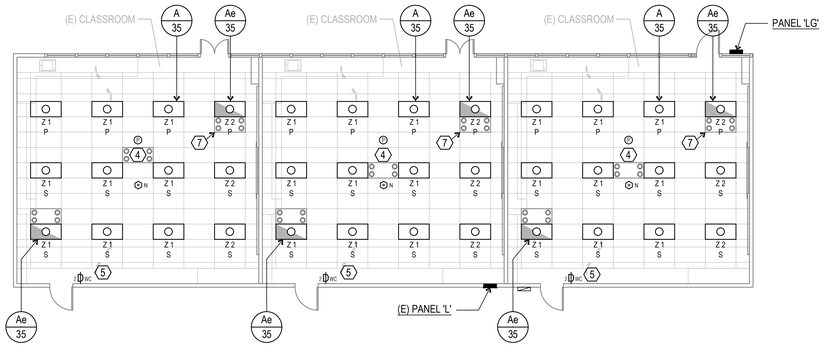
0 4' 8' 12' 16' 24' NORTH



LIGHTING FLOOR PLAN
BUILDING 'I'

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

0 4' 8' 12' 16' 24' NORTH



LIGHTING FLOOR PLAN
BUILDING 'G'

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

0 4' 8' 12' 16' 24' NORTH

REFERENCE NOTES

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3. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
4. CONNECT TO EXISTING LIGHTING CIRCUIT.
5. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
6. REMOVE EXISTING SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
7. TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

LIGHTING DEMO NOTE

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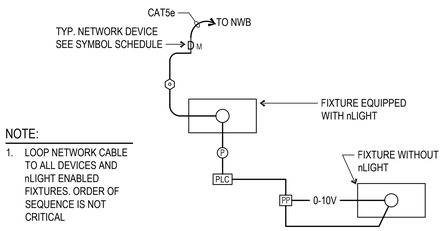
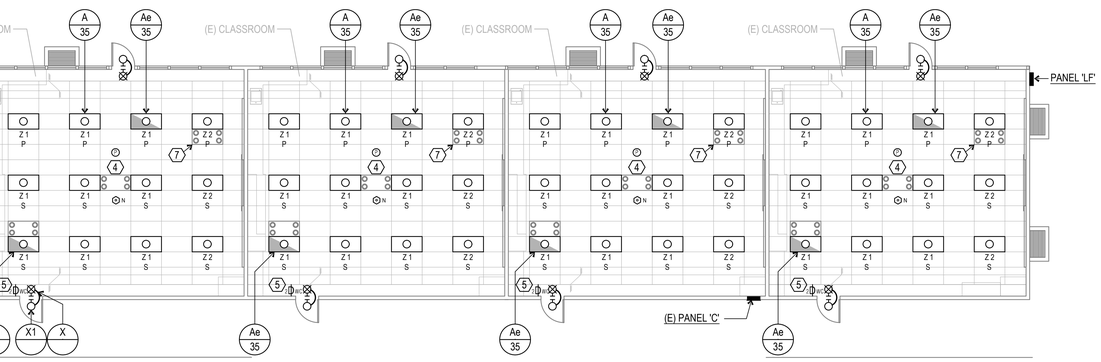


NOTE:

1. LOOP NETWORK CABLE TO ALL DEVICES AND nLIGHT ENABLED FIXTURES. ORDER OF SEQUENCE IS NOT CRITICAL

TYPICAL ZONE WIRING DIAGRAM

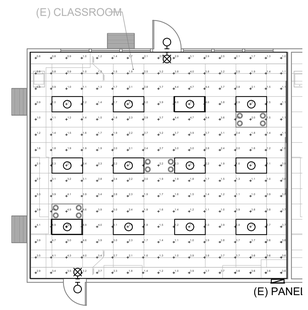
NOT TO SCALE 1 E2.20



LIGHTING FLOOR PLAN
BUILDING 'F'

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

0 4' 8' 12' 16' 24' NORTH



EMERGENCY LIGHTING POINT BY POINT
BUILDING 'F, H & I'

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

0 4' 8' 12' 16' 24' NORTH

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LICENSED ARCHITECT STEPHEN J. CORBIN REG. NO. C-15788 EXP. 08/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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Email @ dpgengineering.com

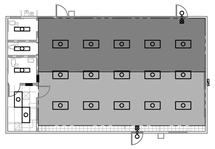
REGISTERED PROFESSIONAL ENGINEER TREVOR T. POLLOCK No. E 791 ELECTRICAL STATE OF CALIFORNIA

BLDGS F,G,H & I LIGHTING FLOOR PLANS, DETAILS AND NOTES

MARK	DATE	REVISIONS
1		
2		
3		

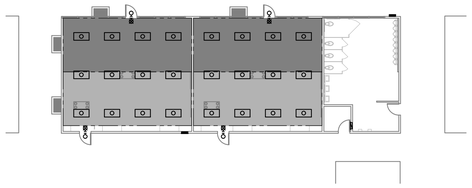
JOB NO.	1316
DRAWN :	R.L.M.
CHECKED :	D.P.G.
DATE :	12/6/21

2.20 OF SHEETS



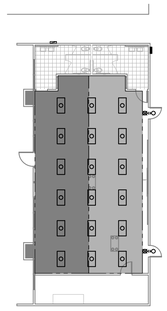
DAYLIT FLOOR PLAN
BUILDING 'D'
SCALE : 1/16" = 1'-0"

NORTH



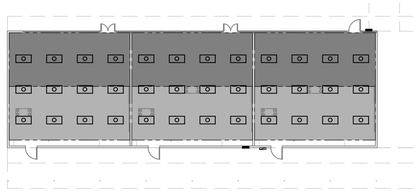
DAYLIT FLOOR PLAN
BUILDING 'H'
SCALE : 1/16" = 1'-0"

NORTH



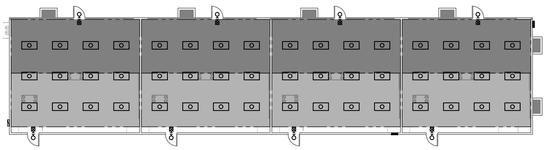
DAYLIT FLOOR PLAN
BUILDING 'C'
SCALE : 1/8" = 1'-0"

NORTH



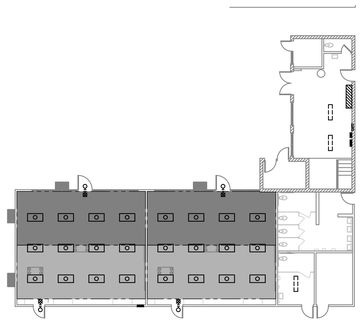
DAYLIT FLOOR PLAN
BUILDING 'G'
SCALE : 1/16" = 1'-0"

NORTH



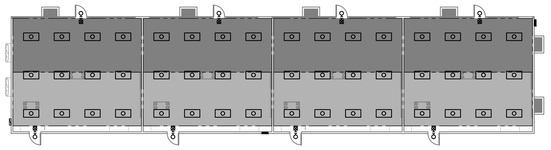
DAYLIT FLOOR PLAN
BUILDING 'F'
SCALE : 1/16" = 1'-0"

NORTH



DAYLIT FLOOR PLAN
BUILDING 'E'
SCALE : 1/16" = 1'-0"

NORTH



DAYLIT FLOOR PLAN
BUILDING 'I'
SCALE : 1/16" = 1'-0"

NORTH

GENERAL TITLE 24 LIGHTING NOTES:

REFER TO CALIFORNIA ENERGY CODE FOR ALL REQUIREMENTS.

REFER TO LIGHTING CONTROL WIRING DIAGRAM AND DAYLIT FLOOR PLAN AND COMPLY WITH THE FOLLOWING:

1. LUMINARIES IN THE SKYLIT ZONE SHALL BE CONTROLLED SEPARATELY FROM THOSE IN THE PRIMARY SIDELIT DAYLIT ZONES.
2. LUMINARIES THAT FALL IN BOTH, A SKYLIT AND PRIMARY SIDELIT DAYLIT ZONE, SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
3. LUMINARIES IN THE SECONDARY DAYLIT ZONE SHALL BE CONTROLLED INDEPENDENTLY FROM ALL OTHER LUMINARIES,INCLUDING THOSE IN THE SKYLIT AND PRIMARY SIDELT ZONES. LUMINARIES THAT FALL IN BOTH PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE CONTROLLED AS PART OF THE PRIMARY SIDELIT DAYLIT ZONE.
4. LUMINARIES THAT FALL IN ALL THREE ZONES SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
5. PROVIDE SHOP DRAWING OF LIGHTING CONTROL SYSTEM.
6. NETWORK CABLING NOT SHOWN FOR CLARITY. REFER TO CONTROL DIAGRAM.
7. CONTROL EQUIPMENT IS INDICATED DIAGRAMMATICALLY. LOCATE IN ACCESSIBLE ATTIC SPACES.

DAYLIT ZONE AREA REFERENCE		LIGHTING ZONE	
PRIMARY SIDELIT ZONE "P"		Z1	ZONE ONE
SECONDARY SIDELIT ZONE "S"		Z2	ZONE TWO

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16769
EXP. 08/31/2023
STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com

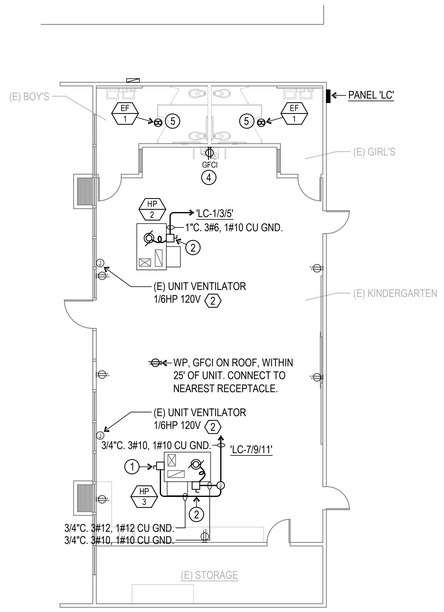
REGISTERED PROFESSIONAL ENGINEER
VICTOR P. GOETZ
No. 19936
ELECTRICAL
STATE OF CALIFORNIA

DAYLIT LIGHTING PLANS, NOTES AND SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

2.30 OF SHEETS

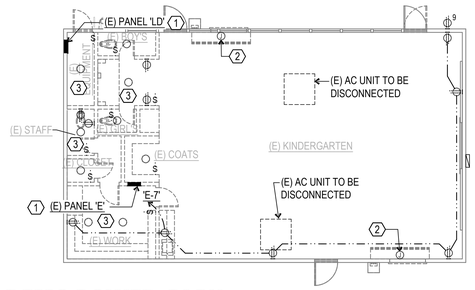


POWER FLOOR PLAN
BUILDING 'C'

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

0 4' 8' 12' 16' 24'

NORTH

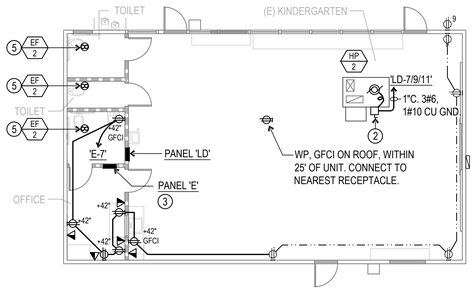


DEMO POWER PLAN
BUILDING 'D'

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

0 4' 8' 12' 16' 24'

NORTH



POWER FLOOR PLAN
BUILDING 'D'

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

0 4' 8' 12' 16' 24'

NORTH

DEMOLITION REFERENCE NOTES

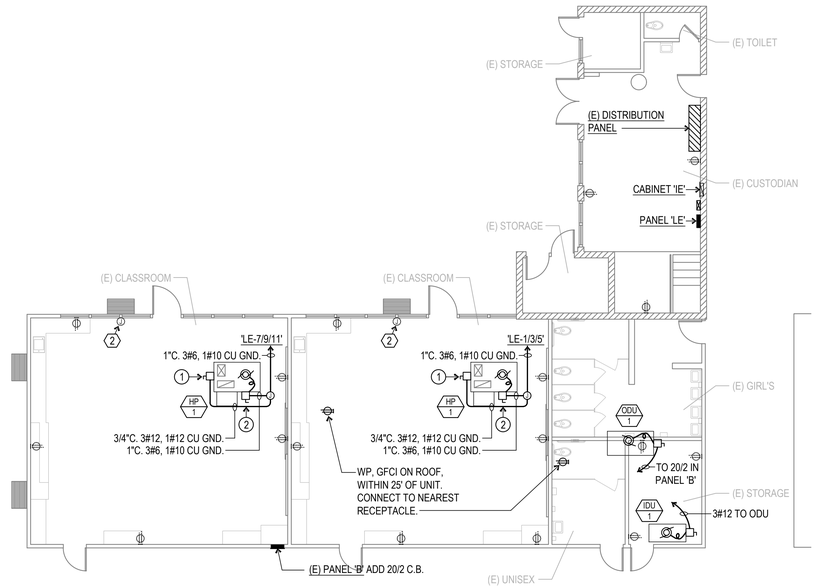
1. EXISTING PANEL TO BE RELOCATED AND REPLACED. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AND FEEDER TO NEW LOCATION. SAWCUT AND PATCH FLOOR, EXTEND BRANCH CIRCUIT TO NEAREST WALL AND REROUTE TO PANEL AND/ OR PROVIDE J-BOX IN CEILING TO INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION. ASSUME 100 AMP FEEDER AND 100 AMP 3 PH 4W 20 CIRCUIT PANEL.
2. DISCONNECT POWER TO UNIT VENTILATOR PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES. REFER TO DEMO NOTES.

POWER REFERENCE NOTES

1. POWERED EXHAUST FUSED DISCONNECT.
2. HP FUSED DISCONNECT.
3. PROVIDE TRIM KIT FOR 6" PANEL IN 4" WALL
4. CONNECT TO CIRCUIT MADE SPARE DUE TO UNIT VENTILATION REMOVAL.
5. CONNECT FAN TO EXISTING LIGHTING IN RESTROOM. PROVIDE RELAY AS REQUIRED.

DEMOLITION NOTES:

1. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION WORK. ALL EXISTING EQUIPMENT THAT IS REMOVED SHALL BE RETURNED TO OWNER.
2. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH NEW CONSTRUCTION AS REQUIRED.
3. ALL CONDUITS SHALL BE CONCEALED. WHERE SPECIFICALLY PERMITTED ON JOB, CONDUIT MAY BE RUN EXPOSED AND SHALL BE INSTALLED IN A MANNER TO THE SATISFACTION OF THE ARCHITECT.
4. EXISTING ELECTRICAL OUTLET BOXES AND RACEWAYS, WHERE LOCATED TO BE OF VALUE FOR NEW CONSTRUCTION AND WHERE JUDGED TO BE IN GOOD CONDITION BY THE ARCHITECT, MAY BE REFURBISHED AND REUSED.
5. INSTALL NEW CONDUCTORS WHENEVER EXISTING OUTLET BOXES ON RACEWAYS ARE USED. DO NOT USE EXISTING CONDUCTORS. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS OTHERWISE NOTED.
6. REMOVE CONDUCTORS FROM ANY ABANDONED RACEWAY, BACK TO NEAREST TERMINATION POINT.
7. COORDINATE REMOVAL OF EXISTING LIGHT FIXTURES, OUTLETS, PHONES, ETC., WITH ARCHITECTURAL PLAN.
8. REMOVE EXISTING OUTLET DEVICES AND PLATES REMAINING AND PROVIDE ALL NEW IN EXISTING BOXES AS REQUIRED.
9. COORDINATE WITH OWNER ALL DISRUPTION OF SCHOOL CLOCK, PROGRAM, FIRE ALARM, INTERCOM SYSTEMS AND POWER SERVICE.
10. ALL DEVICES, ETC. IN WALLS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED, WHETHER INDICATED OR NOT. FIELD VERIFY ALL CONDITIONS PRIOR TO BID.
11. CONTRACTOR SHALL PATCH TO MATCH ALL EXISTING SURFACES TO REMAIN WHICH MAY BE DAMAGED DURING ELECTRICAL DEMOLITION.
12. FLUSH OUT ALL EXISTING DEVICES TO NEW WALL FINISH. REMOVE AND REINSTALL ALL (E)SURFACE RACEWAYS. REFER TO ARCHITECTURAL DRAWINGS, FIELD VERIFY ALL CONDITIONS.
13. REFER TO MECHANICAL PLANS AND DISCONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. LABEL CIRCUIT BREAKER AS SPARE.



POWER FLOOR PLAN
BUILDING 'E'

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

0 4' 8' 12' 16' 24'

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
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SS ☑ FLS ☑ ACS ☑
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PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 EXP. 08/31/23 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com

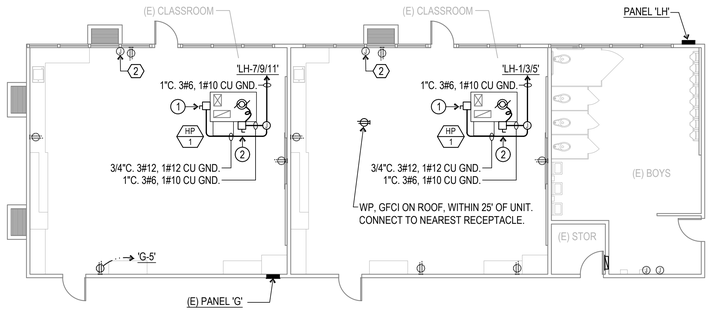
REGISTERED PROFESSIONAL ENGINEER TIMOTHY Y. DOO No. E 13... Exp. 09/30/22 ELECTRICAL STATE OF CALIFORNIA

BLDGS C,D,E
POWER
FLOOR PLANS
AND NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.	1316
DRAWN :	R.L.M.
CHECKED :	D.P.G.
DATE :	12/6/21

3.10
OF SHEETS



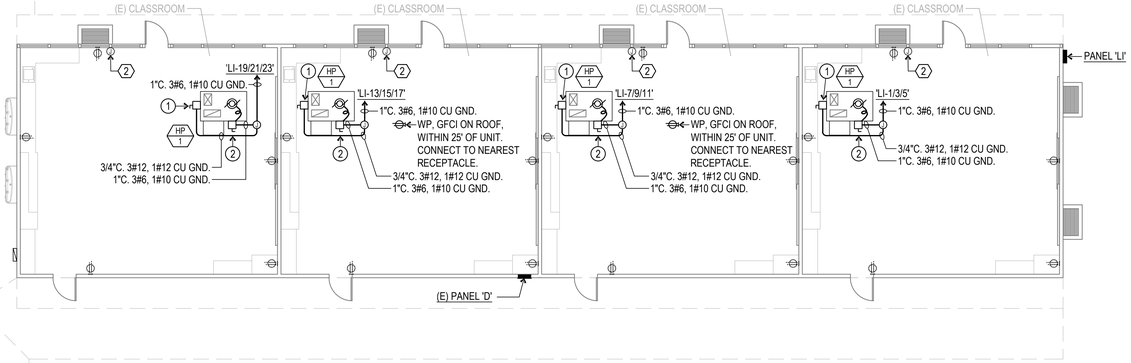
POWER FLOOR PLAN

BUILDING 'H'

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

0 4' 8' 12' 16' 24'

NORTH



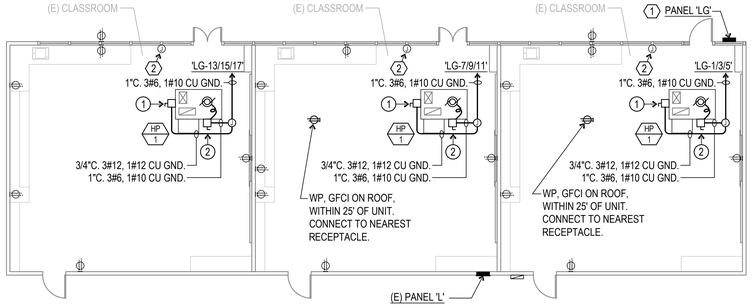
POWER FLOOR PLAN

BUILDING 'I'

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

0 4' 8' 12' 16' 24'

NORTH



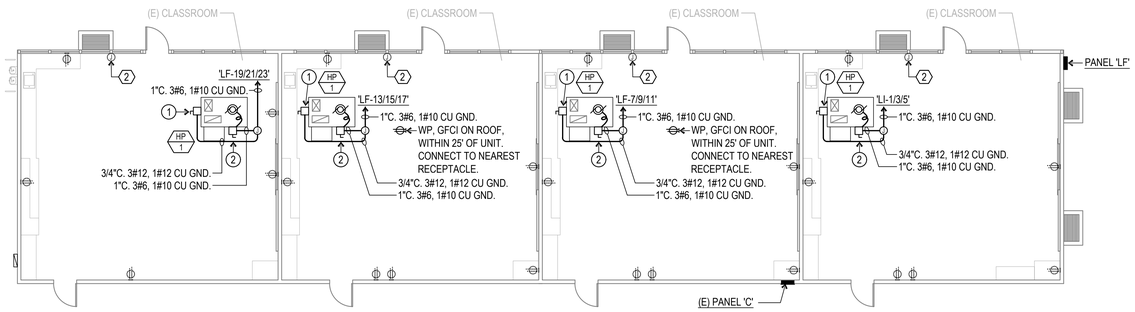
POWER FLOOR PLAN

BUILDING 'G'

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

0 4' 8' 12' 16' 24'

NORTH



POWER FLOOR PLAN

BUILDING 'F'

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

0 4' 8' 12' 16' 24'

NORTH

DEMOLITION REFERENCE NOTES

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2. DISCONNECT POWER TO UNIT VENTILATOR PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.

POWER REFERENCE NOTES

1. POWERED EXHAUST FUSED DISCONNECT.
2. HP FUSED DISCONNECT.

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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16289 RENEWAL 08/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 903-6929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER TIMOTHY P. DOLTON ELECTRICAL STATE OF CALIFORNIA 7/31 Civil Electrical

BLDGS F,G,H & I
POWER
FLOOR PLANS
AND NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

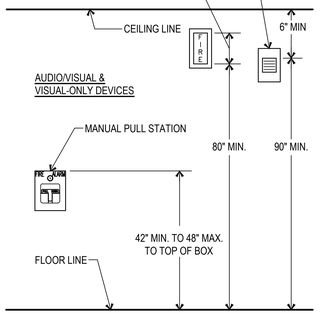
3.20
OF SHEETS

FIRE DETECTION SYSTEM NOTES:

1. ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY: HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
2. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
3. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
4. FIRE ALARM PANEL, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
5. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
6. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
7. INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
8. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
9. WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
10. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
11. THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
12. SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2016 EDITION WITH SFM AMENDMENTS).
13. THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
14. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
15. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
16. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
17. MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
18. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
19. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2019 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2016 EDITION.
20. PROVIDE ACCESS HOLE FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES.
21. ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
22. MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
23. SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC, 2019 CFC, 2016 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
24. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
25. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
26. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
27. PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.

AUDIBLE DEVICES: WHERE CEILING HEIGHTS PERMIT WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS AT HEIGHTS ABOVE FINISHED FLOORS OF NOT LESS THAN 90" (2.30 M) AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6" (0.15m).

WALLMOUNTED APPLIANCES SHALL HAVE THEIR ENTIRE LENS AT HEIGHTS ABOVE THE FINISHED FLOOR OF NOT LESS THAN 80" (2m), AND NO GREATER THAN 96" (2.4m).

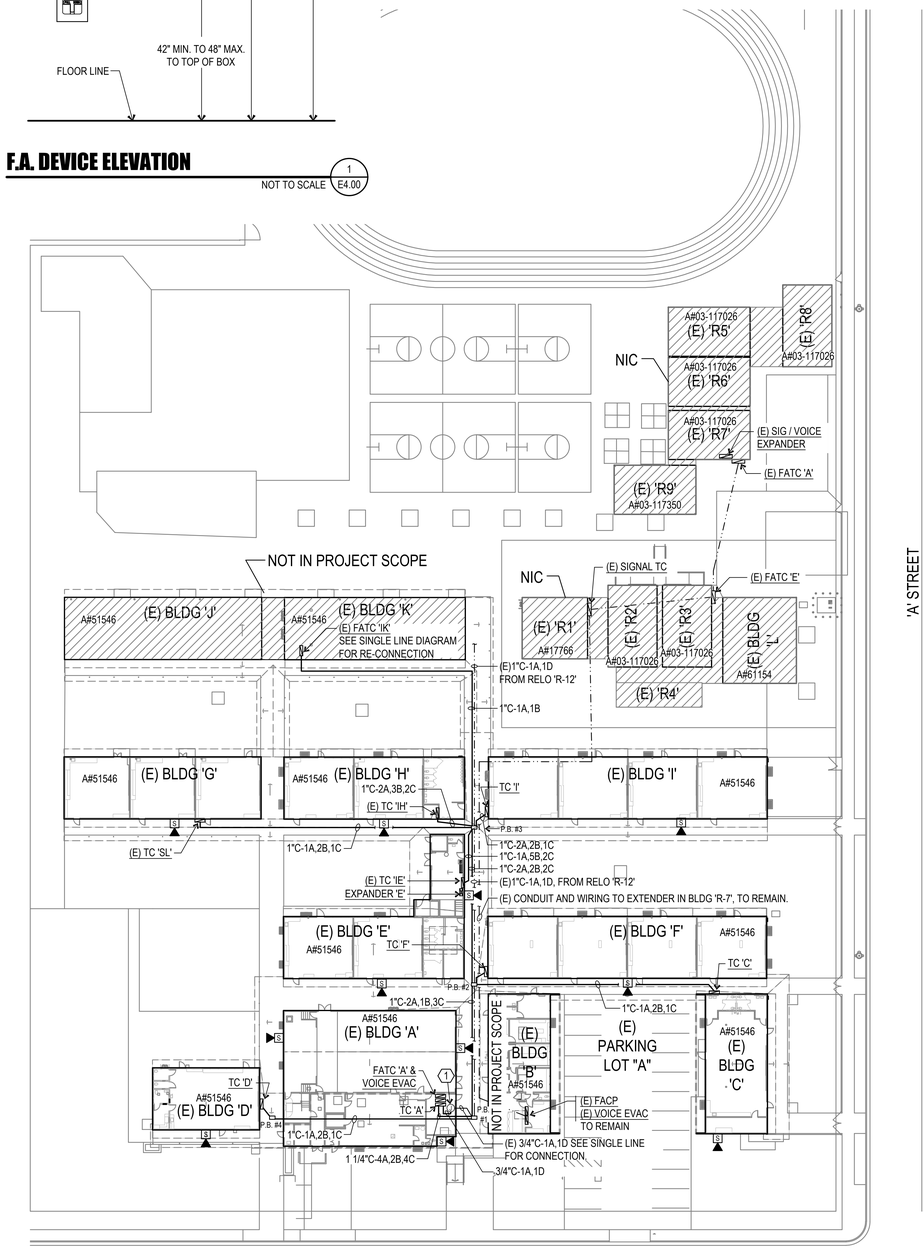


FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT → / SYSTEM OUTPUT ↓	AREA SMOKE OR HEAT DETECTORS	CARBON MONOXIDE DETECTOR	SPRINKLER RISER FLOW SWITCH	SPRINKLER RISER TAMPER SWITCH	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
ANNUNCIATE AT ADMINISTRATION OFFICE	•		•	•	•	•	•	•
ANNUNCIATE AT ADMINISTRATION OFFICE (CARBON MONOXIDE DETECTION)		•						
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•		•					•
CENTRAL STATION MONITORING	•		•	•	•			•
CLOSE FIRE SMOKE DAMPER	•							
SHUT DOWN HVAC UNIT	•				•			
ACTIVATE VOICE EVACUATION PANEL	•							
ACTIVATE AUDIO ALARM CLASSROOM ONLY		•						

F.A. DEVICE ELEVATION

NOT TO SCALE (1 / E4.00)



FIRE ALARM SITE PLAN

-

SCALE : 1" = 30'-0"

0 15' 30' 45' 60' 90'

NORTH

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION	CSFM #
(E)	EXISTING ITEM		
U.O.N.	UNLESS OTHERWISE NOTED		
	WIRING UNDERGROUND OR IN WALL	3/4"C MIN U.O.N.	
	EXISTING CONDUIT TO REMAIN		
FACP	FIRE ALARM CONTROL PANEL WITH MEDIA GATEWAY CARD & DIALER	HOCHIKI # FIRENET L@TITUDE HOCHIKI # 5788	7165-0410:0506
EXP	FIRE ALARM EXPANDER PANEL	HOCHIKI # FN-642-ULADA	7315-0410:0166
EVAC	FIRE ALARM VOICE EVACUATION AMPLIFIER	HOCHIKI #EVAX-100	6911-0410::0176
A	ATTIC HEAT DETECTOR WITH BASE	HOCHIKI #ATJ-EA BASE #YBN-NSA-4	7270-0410:0203 7270-0410:0203
S	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	HOCHIKI #ALN-V BASE #HSB-NSA-6	7272-0410:0204 7272-0410:0204
SB CO	MULTI CRITERIA (CO) DETECTOR WITH BASE	HOCHIKI #ACD-V SOUNDER BASE #ASBL	7275-0410:0503 7300-0410:0210
SOM	ADDRESSABLE SUPERVISED OUTPUT MODULE	HOCHIKI #DCP-SOM-A/-A1	7300-0410::0150
xW C(MC)cd	F.A. SPEAKER / STROBE. (CEILING MTD.) xW = WATTAGE C = CEILING MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPKCLPW (SEE PLANS FOR SETTINGS)	7320-0410:0194
xW W(MC)cd	F.A. SPEAKER / STROBE. (WALL MTD.) xW = WATTAGE W = WALL MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPK24WLPR (SEE PLANS FOR SETTINGS)	7320-0410:0195
Ccd	F.A. VISUAL (CEILING MTD.) C = CEILING MTD + cd= MULTI-CANDELA SETTINGS	HOCHIKI #HCS24PCW (SEE PLANS FOR SETTINGS)	7125-0410:0188
Wcd	F.A. VISUAL (WALL MTD.) W = WALL MTD + cd= MULTI-CANDELA SETTINGS	HOCHIKI #HES3-24WR (SEE PLANS FOR SETTINGS)	7320-0410:0188
S xW	FIRE ALARM EXTERIOR SPEAKER. (WALL MTD.) xW = WATTAGE	GENTEX #WSSPKR (SEE PLANS FOR SETTINGS)	7320-0569:0141
	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	

REFERENCE NOTES

1. EXISTING J-BOX ABOVE CEILING. SEE SINGLE LINE DIAGRAM FOR CONNECTION.

FIRE ALARM ACCEPTANCE TEST

1. TESTING OF ALL DEVICES AND APPLIANCES, INCLUDING THE BATTERY-(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET.
2. INSPECTION TESTING AND MAINTENANCE OF SYSTEMS, THEIR INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL COMPLY WITH CHAPTER 14 OF NFPA 72 AND DOCUMENTATION WITH NFPA 72, CHAPTER 7.
3. TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AHJ REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" AT SECTION 12.3 [NFPA 72, FIGURE 7.8.2(a)], AND THE "SYSTEM RECORD OF INSPECTION AND TESTING" AT SECTION 10.1 [NFPA 72, FIGURE 7.8.2 (g)].
4. ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IS IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM.
5. ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET. (NFPA 72, 7.7.2).

FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2

1. EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR APPROVED LOCATION.
2. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
3. ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
4. CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
5. WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNITS, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

SYSTEM DOCUMENTS AS APPLICABLE :

1. RECORD DRAWINGS / AS-BUILTS.
2. EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
3. ALTERNATIVE MEANS AND METHODS.
4. PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
5. SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2).
6. EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8).
7. EVALUATION DOCUMENTATION (NFPA 72, 7.3.9).
8. RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).
9. SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

IDENTIFICATION STAMP
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APP: 03-122910 INC:
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DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S.C. inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
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Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-6144
Fax (559) 900-4929
Email @ dpgengineering.com

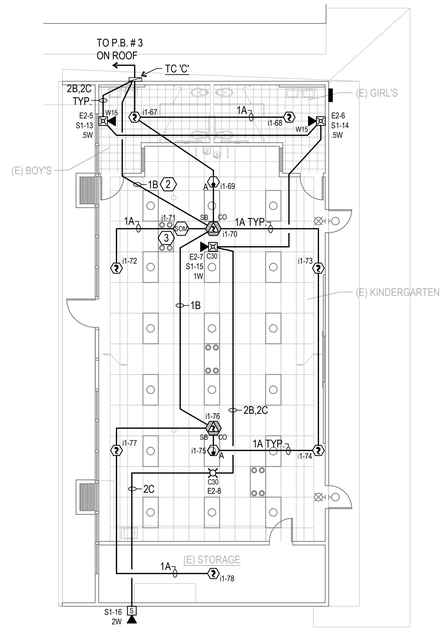
REGISTERED PROFESSIONAL ENGINEER — DAVID P. GOLL — No. 17731 — ELECTRICAL — STATE OF CALIFORNIA

F.A. SITE PLAN, SYMBOL LEGEND, DETAILS, NOTES AND SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

4.00 OF SHEETS



FIRE ALARM FLOOR PLAN

BUILDING 'C'

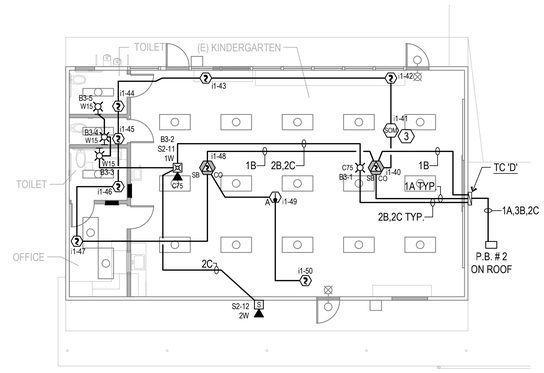
SCALE : 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

NORTH

REFERENCE NOTES

1. HEAT DETECTOR AT APEX OF RAISED ROOF.
2. 1B TO FATC IN THIS BUILDING THEN CONTINUE TO FACP PER SINGLE LINE DIAGRAM.
3. RELAY AT AC UNIT 'HP-2', FOR AUTOMATIC SHUT OFF PER CMC 608.



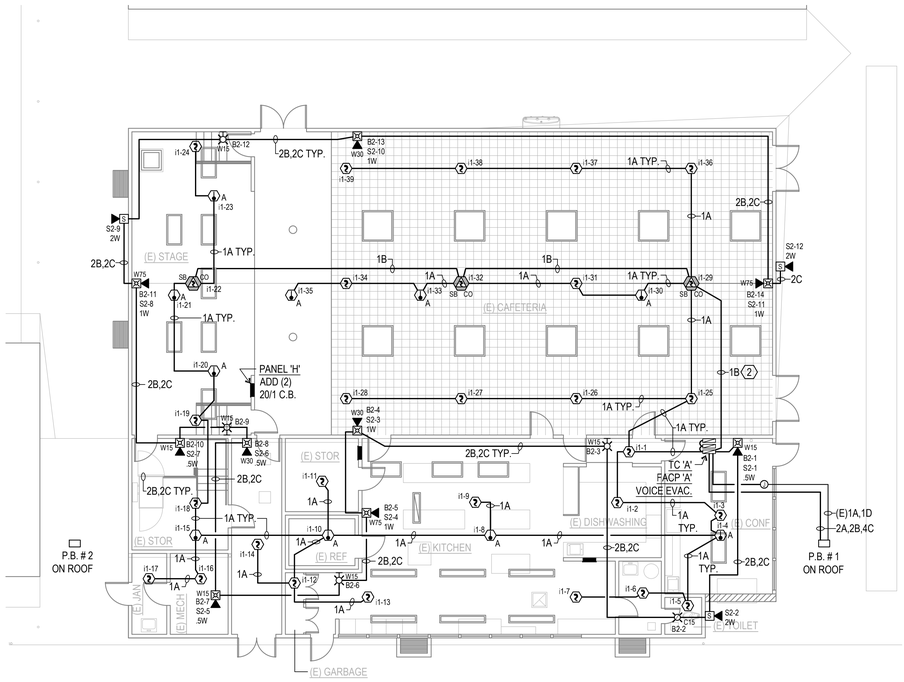
FIRE ALARM FLOOR PLAN

BUILDING 'D'

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

0 4' 8' 12' 16' 24'

NORTH



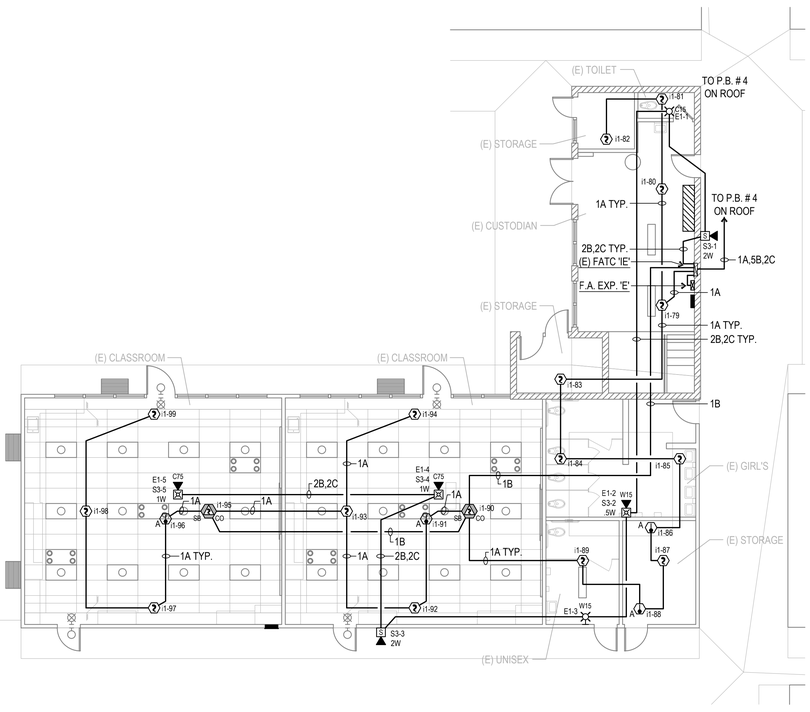
FIRE ALARM FLOOR PLAN

BUILDING 'A'

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

0 4' 8' 12' 16' 24'

NORTH



FIRE ALARM FLOOR PLAN

BUILDING 'E'

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

0 4' 8' 12' 16' 24'

NORTH

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2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, NCARB, AIA, LEED ® AP

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Fax (559) 900-6929
Email @ dpgengineering.com

BLDGS A,C,D,E
FIRE ALARM
FLOOR PLANS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
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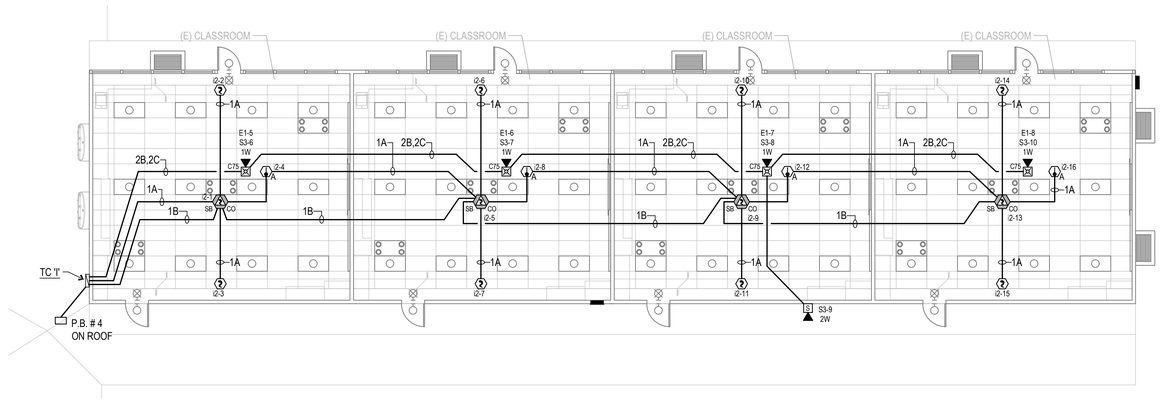


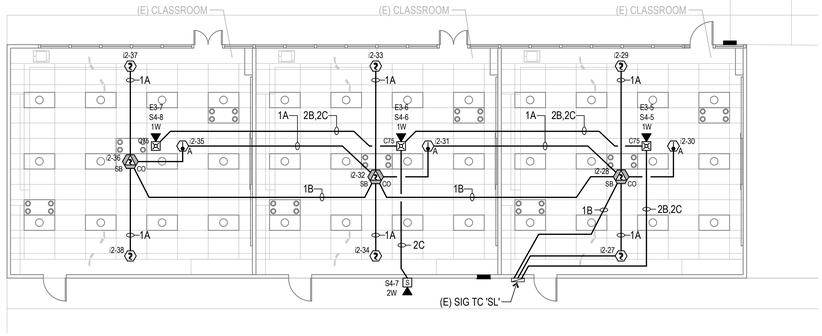
LIGHTING FLOOR PLAN

BUILDING 'I'

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

0 4' 8' 12' 16' 24'

NORTH



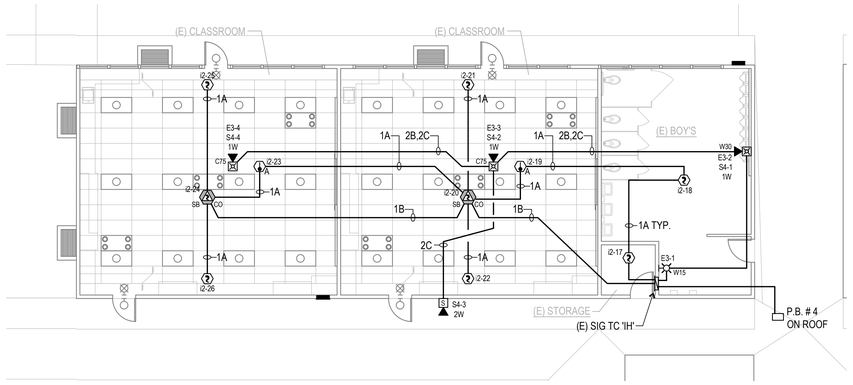
LIGHTING FLOOR PLAN

BUILDING 'G'

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

0 4' 8' 12' 16' 24'

NORTH



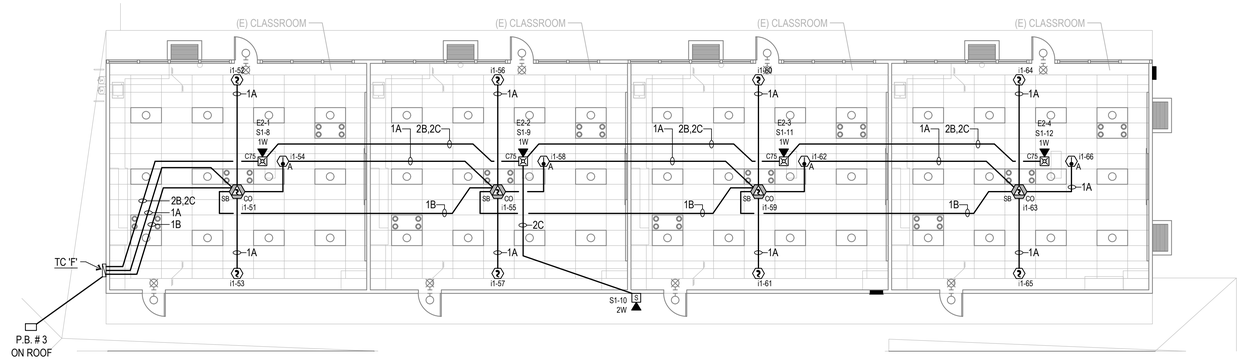
LIGHTING FLOOR PLAN

BUILDING 'H'

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

0 4' 8' 12' 16' 24'

NORTH



LIGHTING FLOOR PLAN

BUILDING 'F'

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

0 4' 8' 12' 16' 24'

NORTH

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1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16795
RENEWAL 08/31/25
STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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Ph: (559) 276-5144
Fax: (559) 903-4929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER
VICTOR P. GOTTA
No. 19-36126
ELECTRICAL
STATE OF CALIFORNIA

BLDGS F,G,H & I
FIRE ALARM
FLOOR PLANS

MARK	DATE	REVISIONS
1		
2		
3		

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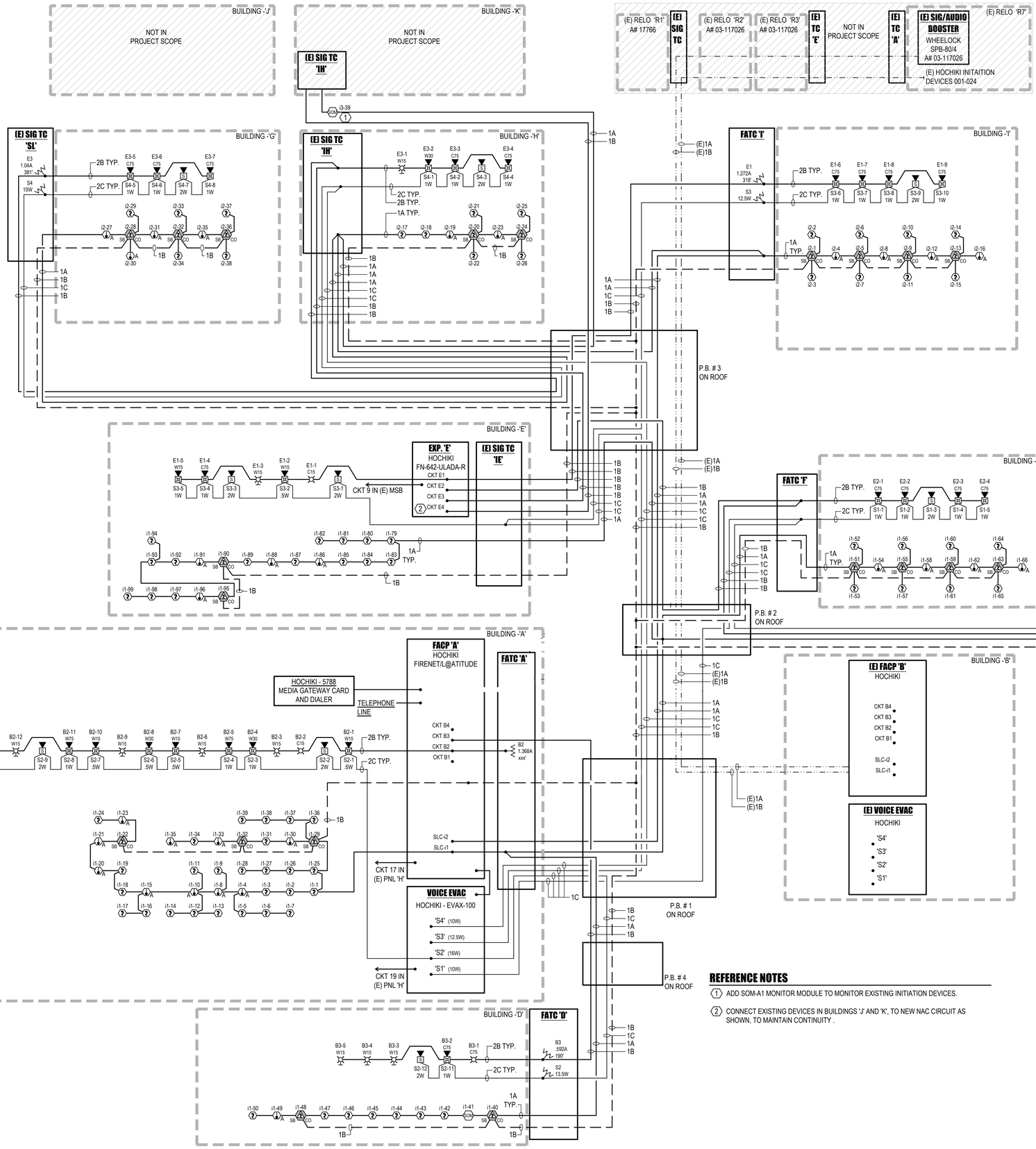
OF SHEETS



REFERENCE NOTES

1. ADD SOM-A1 MONITOR MODULE TO MONITOR EXISTING INITIATION DEVICES.
2. CONNECT EXISTING DEVICES IN BUILDINGS 'J' AND 'K', TO NEW NAC CIRCUIT AS SHOWN, TO MAINTAIN CONTINUITY .

FIRE ALARM SINGLE LINE DIAGRAM

NO SCALE

NAC EXTENDER BATTERY CALCULATION

Extender Panel 'E'

POWER REQUIREMENTS

	CURRENT [A] SUPERVISORY	ALARM
PANEL OVERHEAD	0.065	0.145
NAC CIRCUITS	-	3.349
TOTALS	0.065	3.494

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.065A =	1.560 AHr
ALARM POWER	= 0.25 Hr * 3.494A =	0.874 AHr
TOTAL POWER REQUIREMENT =		2.434 AHr
WITH 25% SAFETY Factor =		3.042 Ahr
MINIMUM BATTERY CAPACITY =		5 AHr

USE NOTIFIER BATTERIES (2) BAT-1250-BP

NOTE: PROVIDE BATTERY BOX AS REQUIRED

BATTERY CALCULATION

Voice Evac. Amplifier Cabinet 'EVAX-100'

POWER REQUIREMENTS

	CURRENT [A] STANDBY	ALARM
PANEL OVERHEAD	0.180	2.500
SPEAKER LOAD	-	3.148
TOTALS	0.180	5.648

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.18A =	4.320 AHr
SPEAKER LOAD	= 0.25 Hr * 5.648A =	1.412 AHr
TOTAL POWER REQUIREMENT =		5.732 AHr
WITH 25% SAFETY FACTOR =		7.165 AHr
MINIMUM BATTERY CAPACITY =		12 AHr

USE NOTIFIER BATTERIES (2) BAT-12120-BP

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit 'E1'

VD = Voltage Drop [V]
I = Current [A] (1.272A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (318')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 1.272 * 2 * 318}{6530} = 1.363\ V$

$VD\% = \frac{VD}{20.4} = 6.7\%$

VOLTAGE DROP CALCULATION

NAC Circuit 'E2'

VD = Voltage Drop [V]
I = Current [A] (1.037A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (452')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 1.037 * 2 * 452}{6530} = 1.579\ V$

$VD\% = \frac{VD}{20.4} = 7.7\%$

VOLTAGE DROP CALCULATION

NAC Circuit 'E3'

VD = Voltage Drop [V]
I = Current [A] (1.04A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (381')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 1.04 * 2 * 381}{6530} = 1.335\ V$

$VD\% = \frac{VD}{20.4} = 6.5\%$

FACP BATTERY CALCULATION

Fire Alarm Control Panel "FACP-A"

POWER REQUIREMENTS

	No.	CURRENT [A] SUPERVISORY	ALARM
PANEL OVERHEAD	-	1.095	1.345
(E) INITIATION DEVICES	0	0.000	0.000
(N) INITIATION DEVICES	126	0.037	1.298
NAC CIRCUITS SUMMARY	3	-	1.960
ADD'L NAC CKTS	4	0.140	-
TOTALS		1.132	4.603

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 1.1319A =	27.166 AHr
ALARM POWER	= 0.25 Hr * 4.6025A =	1.151 AHr
TOTAL POWER REQUIREMENT =		28.316 AHr
WITH 25% SAFETY FACTOR =		35.395 Ahr
MINIMUM BATTERY CAPACITY =		55 AHr

USE NOTIFIER BATTERIES (2) BAT-12550-BP

Note:
1. PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
2. PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit 'B2'

VD = Voltage Drop [V]
I = Current [A] (1.368A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (385')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 1.368 * 2 * 385}{6530} = 1.774\ V$

$VD\% = \frac{VD}{20.4} = 8.7\%$

VOLTAGE DROP CALCULATION

NAC Circuit 'B3'

VD = Voltage Drop [V]
I = Current [A] (0.592A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (190')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.592 * 2 * 190}{6530} = 0.379\ V$

$VD\% = \frac{VD}{20.4} = 1.9\%$

FA CABLE SCHEDULE			
'A'	ADDRESSABLE FA COMMUNICATION CABLE	WEST PENN #D990 (INDOOR)	WEST PENN #AQ225 (OUTDOOR)
'B'	2#12 CU.	WEST PENN #998 (INDOOR)	WEST PENN #AQ227 (OUTDOOR)
'C'	SPEAKER CABLE 14/2	WEST PENN #990 (INDOOR-BLUE)	WEST PENN #AQ294 (OUTDOOR)
'D'	MICROPHONE CABLE 22/4	WEST PENN #355 (INDOOR)	WEST PENN #AQC355 (OUTDOOR)

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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16765 EXPIRATION: 08/31/2025 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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6702 N. Cedar Suite 205
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REGISTERED PROFESSIONAL ENGINEER DAVID P. GOTT No. E19 ELECTRICAL STATE OF CALIFORNIA

FIRE ALARM SINGLE LINE DIAGRAM

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

4.30 OF SHEETS

PANEL 'LE'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **100/3**
BUS RATING: **100A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9945			HP-1				1		50	a							SPACE				2
3		9945		----------				1		-	b							SPACE				4
5			9945	----------				1		3	c							SPACE				6
7	9945			HP-1				1		50	a							SPACE				8
9		9945		----------				1		-	b							SPACE				10
11			9945	----------				1		3	c							SPACE				12
13				SPACE							a							SPACE				14
15				SPACE							b							SPACE				16
17				SPACE							c							SPACE				18
19				SPACE							a							SPACE				20
21				SPACE							b							SPACE				22
23				SPACE							c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37				SPACE							a							SPACE				38
39				SPACE							b							SPACE				40
41				SPACE							c							SPACE				42
	19890	19890	19890	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	19890	19890	19890
RECEPTACLES:	0	100%	0	CONNECTED AMPS	72	72	72
HEATING:	0	100%	0				
HVAC AND MOTORS:	59670	100%	59670				
MISCELLANEOUS	0	100%	0				

PANEL 'LC'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **100/3**
BUS RATING: **100A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE NEMA 3R**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9557			HP-2				1		50	a							SPACE				2
3		9557		----------				1		-	b							SPACE				4
5			9557	----------				1		3	c							SPACE				6
7	6898			HP-3				1		30	a							SPACE				8
9		6898		----------				1		-	b							SPACE				10
11			6898	----------				1		3	c							SPACE				12
13				SPACE							a							SPACE				14
15				SPACE							b							SPACE				16
17				SPACE							c							SPACE				18
19				SPACE							a							SPACE				20
21				SPACE							b							SPACE				22
23				SPACE							c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37				SPACE							a							SPACE				38
39				SPACE							b							SPACE				40
41				SPACE							c							SPACE				42
	16455	16455	16455	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	16455	16455	16455
RECEPTACLES:	0	100%	0	CONNECTED AMPS	59	59	59
HEATING:	0	100%	0				
HVAC AND MOTORS:	49365	100%	49365				
MISCELLANEOUS	0	100%	0				

PANEL 'LF'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **300/3**
BUS RATING: **400A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE NEMA 3R**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9945			HP-1				1		50	a							SPACE				2
3		9945		----------				1		-	b							SPACE				4
5			9945	----------				1		3	c							SPACE				6
7	9945			HP-1				1		50	a							SPACE				8
9		9945		----------				1		-	b							SPACE				10
11			9945	----------				1		3	c							SPACE				12
13	9945			HP-1				1		50	a							SPACE				14
15		9945		----------				1		-	b							SPACE				16
17			9945	----------				1		3	c							SPACE				18
19	9945			HP-1				1		50	a							SPACE				20
21		9945		----------				1		-	b							SPACE				22
23			9945	----------				1		3	c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37	16455			PANEL LC						100	a							SPACE				38
39		16455		----------						-	b							SPACE				40
41			16455	----------						3	c							SPACE				42
	56235	56235	56235	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	56235	56235	56235
RECEPTACLES:	0	100%	0	CONNECTED AMPS	203	203	203
HEATING:	0	100%	0				
HVAC AND MOTORS:	119340	100%	119340				
MISCELLANEOUS	0	100%	0				

PANEL 'LI'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **200/3**
BUS RATING: **200A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE NEMA 3R**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9945			HP-1				1		50	a							SPACE				2
3		9945		----------				1		-	b							SPACE				4
5			9945	----------				1		3	c							SPACE				6
7	9945			HP-1				1		50	a							SPACE				8
9		9945		----------				1		-	b							SPACE				10
11			9945	----------				1		3	c							SPACE				12
13	9945			HP-1				1		50	a							SPACE				14
15		9945		----------				1		-	b							SPACE				16
17			9945	----------				1		3	c							SPACE				18
19	9945			HP-1				1		50	a							SPACE				20
21		9945		----------				1		-	b							SPACE				22
23			9945	----------				1		3	c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37				SPACE							a							SPACE				38
39				SPACE							b							SPACE				40
41				SPACE							c							SPACE				42
	39780	39780	39780	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	39780	39780	39780
RECEPTACLES:	0	100%	0	CONNECTED AMPS	144	144	144
HEATING:	0	100%	0				
HVAC AND MOTORS:	119340	100%	119340				
MISCELLANEOUS	0	100%	0				

PANEL 'LH'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **200/3**
BUS RATING: **200A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE NEMA 3R**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9945			HP-1				1		50	a							SPACE				2
3		9945		----------				1		-	b							SPACE				4
5			9945	----------				1		3	c							SPACE				6
7	9945			HP-1				1		50	a							SPACE				8
9		9945		----------				1		-	b							SPACE				10
11			9945	----------				1		3	c							SPACE				12
13				SPACE							a							SPACE				14
15				SPACE							b							SPACE				16
17				SPACE							c							SPACE				18
19				SPACE							a							SPACE				20
21				SPACE							b							SPACE				22
23				SPACE							c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37	19890			PANEL LE						100	a							SPACE				38
39		19890		----------						-	b							SPACE				40
41			19890	----------						3	c							SPACE				42
	39780	39780	39780	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	39780	39780	39780
RECEPTACLES:	0	100%	0	CONNECTED AMPS	144	144	144
HEATING:	0	100%	0				
HVAC AND MOTORS:	59670	100%	59670				
MISCELLANEOUS	0	100%	0				

Fixture Schedule

Name	Type Description	Lamp Type	Watts per fixture	Manufacturer	Model Number	Mounting	Notes
	Luminaire						
A	2 X 4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 LP840 N100	T-BAR	
Ae	2 X 4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 E10WLCP LP840 N100	T-BAR	EMERGENCY BATTERY BACK UP
B	1 X 4 STRIP	LED	25	ABL - LITHONIA	CLXL48 4000 LM HEF RDL SPD MVOLT EZ1 40K 80 CRITHCLX N100	SURFACE	
X	EXIT	LED	1	ABL - LITHONIA	LHQM LED R HO RO	WALL	
X1	REMOTE HEAD	LED	1	ABL - LITHONIA	ELA SD QWP L0309	WALL	

PANEL 'LG'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **225/3**
BUS RATING: **225A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE NEMA 3R**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1	9945			HP-1				1		50	a							SPACE				2
3		9945		----------				1		-	b							SPACE				4
5			9945	----------				1		3	c							SPACE				6
7	9945			HP-1				1		50	a							SPACE				8
9		9945		----------				1		-	b							SPACE				10
11			9945	----------				1		3	c							SPACE				12
13	9945			HP-1				1		50	a							SPACE				14
15		9945		----------				1		-	b							SPACE				16
17			9945	----------				1		3	c							SPACE				18
19				SPACE							a							SPACE				20
21		1500		LIGHTING						20	b							SPACE				22
23			1500	LIGHTING						20	c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37	11057			PANEL LD						100	a							SPACE				38
39		9557		----------						-	b							SPACE				40
41			9557	----------						3	c							SPACE				42
	40892	40892	40892	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	40892	40892	40892
RECEPTACLES:	0	100%	0	CONNECTED AMPS	148	148	148
HEATING:	0	100%	0				
HVAC AND MOTORS:	89505	100%	89505				
MISCELLANEOUS	0	100%	0				

PANEL 'LD'

VOLTAGE: **277/480 VOLT 3 PHASE 4 W** | MAIN: **100/3**
BUS RATING: **100A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **FLUSH**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1				SPARE				1		50	a							SPACE				2
3				----------				1		-	b							SPACE				4
5				----------				1		3	c							SPACE				6
7	9557			HP-2				1		50	a							SPACE				8
9		9557		----------				1		-	b							SPACE				10
11			9557	----------				1		3	c							SPACE				12
13	1500			LIGHTING	1					20	a							SPACE				14
15				SPACE							b							SPACE				16
17				SPACE							c							SPACE				18
19				SPACE							a							SPACE				20
21				SPACE							b							SPACE				22
23				SPACE							c							SPACE				24
25				SPACE							a							SPACE				26
27				SPACE							b							SPACE				28
29				SPACE							c							SPACE				30
31				SPACE							a							SPACE				32
33				SPACE							b							SPACE				34
35				SPACE							c							SPACE				36
37				SPACE							a							SPACE				38
39				SPACE							b							SPACE				40
41				SPACE							c							SPACE				42
	11057	9557	9557	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	1500	125%	1875	TOTAL VA	11057	9557	9557
RECEPTACLES:	0	100%	0	CONNECTED AMPS	40	35	35
HEATING:	0	100%	0				
HVAC AND MOTORS:	28671	100%	28671				
MISCELLANEOUS	0	100%	0				

VOLTAGE DROP CALCULATIONS

VD (3 PHASE) = (1.73 * K * I * D) / CM	1.73	K	I	D		Wire Size	CM	VD	%@480	%@208			
PANEL LG	1.73	12	188	400	1561152	1/0	105600	14.8	**3.1**	7.1			
PANEL LD	1.73	12	40	240	199296	#6	26240	7.6	**1.6**	3.7			
PANEL LH	1.73	12	96	300	597888	1	83690	7.1	**1.5**	3.4			
PANEL LE	1.73	12	72	85	127051	#2	66360	1.9	**0.4**	0.9			
PANEL LI	1.73	12	96	410	817114	1	83690	9.8	**2.0**	4.7			
PANEL LF	1.73	12	140	510	1482264	2/0	133100	11.1	**2.3**	5.4			
PANEL LC	1.73	12	40	55	45672	#6	26240	1.7	**0.4**	0.8			
	1.73	12			0			#DIV/0!	#DIV/0!	**#DIV/0!**			
	1.73	12			0			#DIV/0!	#DIV/0!	**#DIV/0!**			
	1.73	12			0			#DIV/0!	#DIV/0!	**#DIV/0!**			
	1.73	12			0			#DIV/0!	#DIV/0!	**#DIV/0!**			
	1.73	12			0			#DIV/0!	#DIV/0!	**#DIV/0!**			

VD (1 PHASE) = (2 * K * I * D) / CM	2	K	I	D			CM	VD	%@480	%@208	%@120	%@277	%@230
RECEPTACLE CIRCUIT 1A-18	2	12			0	12	6530	0.0	0.0	0.0	**0.0**	0.0	0.0

K = 12 COPPER loaded +50%
K = AL loaded +50%
D = DISTANCE
CM = CIRCULAR MILS
I = CURRENT

(E)PANEL 'MSB'

VOLTAGE: **120/208 VOLT 3 PHASE 4 W** | MAIN: **800/3**
BUS RATING: **800A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **SURFACE**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1				EX LOAD							a							EX LOAD				2
3				EX LOAD							b							EX LOAD				4
5				EX LOAD							c							EX LOAD				6
7				EX LOAD							a							EX LOAD				8
9				EXPANDER PANEL E *						20	b							EX LOAD				10
11											c							EX LOAD				12
	0	0	0	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	0	0	0
RECEPTACLES:	0	100%	0	CONNECTED AMPS	0	0	0
HEATING:	0	100%	0				
HVAC AND MOTORS:	0	100%	0				
MISCELLANEOUS	0	100%	0				

* DEDICATED FACP AND VOICE EVAC CIRCUITS, PROVIDE LOCK OFF AND PAINT HANDLE RED. ADD CIRCUIT BREAKER

(E)PANEL 'H'

VOLTAGE: **120/208 VOLT 3 PHASE 4 W** | MAIN: **MLO**
BUS RATING: **100A CU** | BREAKER STYLE: **BOLT ON**
FEEDER: **REFER TO SINGLE LINE DIAGRAM** | MTG STYLE: **FLUSH**

CT #	VA LOAD PER PHASE A	B	C	LOAD DESCRIPTION	LOAD TYPE LT	RC	HT	MO	MS	CB		CB	LOAD TYPE LT	RC	HT	MO	MS	LOAD DESCRIPTION	VA LOAD PER PHASE A	B	C	CT #
1				EX LOAD						20	a	20						EX LOAD				2
3				EX LOAD						20	b	20						EX LOAD				4
5				EX LOAD						20	c	20						EX LOAD				6
7				EX LOAD						20	a	20						EX LOAD				8
9				EX LOAD						20	b	20						EX LOAD				10
11				EX LOAD						20	c	20						EX LOAD				12
13				EX LOAD						20	a	20						EX LOAD				14
15				EX LOAD						20	b	20						EX LOAD				16
17				FACP *						20	c	20						EX LOAD				18
19				VOICE EVAC *						20	a	20						EX LOAD				20
	0	0	0	SUB TOTAL														SUB TOTAL	0	0	0	

LOAD SUMMARY BY TYPE	CONNECTED	DEMAND FACTOR	DEMAND				
LIGHTING:	0	125%	0	TOTAL VA	0	0	0
RECEPTACLES:	0	100%	0	CONNECTED AMPS	0	0	0
HEATING:	0	100%	0				
HVAC AND MOTORS:	0	100%	0				
MISCELLANEOUS	0	100%	0				

* DEDICATED FACP AND VOICE EVAC CIRCUITS, PROVIDE LOCK OFF AND PAINT HANDLE RED. ADD CIRCUIT BREAKER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SCARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16765
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ® -AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 900-6929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA

PANEL SCHEDULES, FIXTURE SCHEDULE & VOLTAGE DROP CALCULATIONS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

5.00 OF SHEETS

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2F for alterations.

Project Name: FRANKLIN ELEMENTARY SCHOOL MODERNIZATION — Report Page: Page 1 of 4
Project Address: BAKERSFIELD — Date Prepared: 11-1-22

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	02	Occupancy Types Within Project:		
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/ Motel	☑ School	☐ Support Areas	
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare Facilities	☐ Other (Write In):		

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01 Electrical Service Designation/ Description	02 Scope of Work[1]	03 Rating (kVA)	04 Utility Provided Metering System Exception to §130.5(a)[2]	05 System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	06 Demand Response Controls
EXISTING	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, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01		02	AND	03	AND	04	AND	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)		**Compliance Results**
(See Table F)	AND	(See Table G)	AND	(See Table H)	AND	(See Table I)		**COMPLIES**

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E
Project Name: FRANKLIN ELEMENTARY SCHOOL MODERNIZATION — Report Page: Page 2 of 4
Project Address: BAKERSFIELD — Date Prepared: 11-1-22

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

Table Instructions: Please complete this table for 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). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Fiii.

01 Electrical Service Designation/ Description	02 Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	03 Location of Voltage Drop Calculations[1]	04 Sheet Number for Voltage Drop Calculations in Construction Documents	05 Field Inspector Pass	05 Field Inspector Fail
EXISTING	☑ Voltage drop < 5% ☐ Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E4.30	☐	☐

**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".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This Section Does Not Apply

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E
Project Name: FRANKLIN ELEMENTARY SCHOOL MODERNIZATION — Report Page: Page 3 of 4
Project Address: BAKERSFIELD — Date Prepared: 11-1-22

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E
Project Name: FRANKLIN ELEMENTARY SCHOOL MODERNIZATION — Report Page: Page 4 of 4
Project Address: BAKERSFIELD — Date Prepared: 11-1-22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	DAVOR P. GOLIK P.E.	Documentation Author Signature:	
Company:	DPG ENGINEERING	Signature Date:	11-1-22
Address:	6702 N CEDAR	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	FRESNO CA 93710	Phone:	559 276 5144

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:	DAVOR P. GOLIK P.E.	Responsible Designer Signature:	
Company :		Date Signed:	11-1-22
Address:		License:	E17151
City/State/Zip:		Phone:	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCI inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16798 EXP. 8/31/2024 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ® -AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 900-4929
Email @ dpgengineering.com
REGISTERED PROFESSIONAL ENGINEER DAVOR P. GOLIK No. E17151 CIVIL ELECTRICAL STATE OF CALIFORNIA

NRCC REPORT

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

6.00 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 1 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	1,483
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in) See Table I

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	1483	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	1483		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 2 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2[G] (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		1,038.1	0		= 1,038	≥	630	0	=	630	COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	18	No	630	☐	☐
Total Designed Watts: CONDITIONED SPACES								630		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 3 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

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

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §120.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13
Plan Sheet Showing Daylit Zones:
E2.30

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 4 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
CLASSROOM	Classroom, Lecture, or Training Vocational Area	0.7	1,483	1,038.1	No	No
		TOTALS:	1,483	1,038.1	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 5 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 6 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
○	●	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING C FRANKLIN	**Report Page:**	**(Page 7 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:33:12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16769 RENEWAL 08/31/2023 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com
DAVOR P. GOLIK No. E 17151 Exp 09-30-23 PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'C'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.01 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 1 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	1,522
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (Write in)

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	1522	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	1522		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:36:42

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 2 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		**Total Adjusted** (Watts) *includes Adjustments	**05 must be >= 08 §140.6**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	989				= 989	≥	715	0	=	715	COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	19	No	665	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 3 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	25 WATT LED	No	No	25	CEC Default	2	No	50	☐	☐
							Total Designed Watts: CONDITIONED SPACES	715		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B Is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column D5.*

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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	☐	☐
Not Required <= 10,000 SF	Whole Building Other		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:36:42

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 4 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
OFFICE	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
TOILET	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13
Plan Sheet Showing Daylit Zones:
E2.30

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	1,522	989.3	No	No
		TOTALS:	1,522	989.3	See Tables J, or P for detail	

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 5 of 7)**
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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:36:42

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 6 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING D FRANKLIN	**Report Page:**	**(Page 7 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 11:36:42

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCA inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. 16209 RENEWAL 08/31/2023 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com
REGISTERED PROFESSIONAL ENGINEER DAVOR P. GOLIK 731 CIVIL ELECTRICAL STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'D'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.02
OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 1 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	1,990
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in) See Table I

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	1990	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	1990		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 2 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		1,393	0		= 1,393	≥	840	0	=	840	COMPLIES
Unconditioned						≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector Pass	Field Inspector Fail
A	35 WATT LED	No	No	35	CEC Default	24	No	840	☐	☐
							Total Designed Watts: CONDITIONED SPACES	840		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 3 of 7)**
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F. INDOOR LIGHTING FIXTURE SCHEDULE
[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

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

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector Pass	Field Inspector Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Field Inspector Fail
CLASSROOM	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13 Plan Sheet Showing Daylit Zones: E2.30

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 4 of 7)**
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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	Additional Allowance / Adjustment PAF
CLASSROOM	Classroom, Lecture, or Training Vocational Area	0.7	1,990	1,393	No	No
	TOTALS:	1,990	1,393	See Tables J, or P for detail		

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:52:01

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 5 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 6 of 7)**
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U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING E FRANKLIN	**Report Page:**	**(Page 7 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:52:01

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT — STEPHEN J. CORBIN — No. C-16786 — EXP. 11/30/2023 — STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER — DAVOR P. GOLIK — No. E17151 — ELECTRICAL — STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.03 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 1 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	4,004
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (Write in)

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	4004	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4004		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 2 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2(G) (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *includes Adjustments	05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	2,603				= 2,603	≥	1,680	0	=	1680	COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	48	No	1,680	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,680		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 3 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*

13
Plan Sheet Showing Daylit Zones:
E2.30

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 4 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	4,004	2,602.6	No	No
	TOTALS:		4,004	2,602.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 5 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 6 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING F FRANKLIN	Report Page:	(Page 7 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 13:57:16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT — STEPHEN J. CORBIN — No. C-16786 — EXPIRATION DATE 08/31/2023 — STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER — DAVOR P. GOLIK — No. E17151 — ELECTRICAL — STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'F'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.04 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 1 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD		04	Total Conditioned Floor Area (ft²)	2,822	
02	Climate Zone	13		05	Total Unconditioned Floor Area (ft²)	0	
03	Occupancy Types Within Project (select all that apply):			06	# of Stories (Habitable Above Grade)	1	
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☒ School	☐ Support Areas		
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☐ Other (Write in)			

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	2822	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	2822		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 2 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2[G] (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	1,834				= 1,834	≥	1,260	0	=	1260	COMPLIES
Unconditioned					=	≥			=		
										Controls Compliance (See Table H for Details)	COMPLIES
										Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	36	No	1,260	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,260		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 3 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

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

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

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13
	Plan Sheet Showing Daylit Zones:
	E2.30

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 4 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	2,822	1,834.3	No	No
		TOTALS:	2,822	1,834.3	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 5 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 6 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING G FRANKLIN	**Report Page:**	**(Page 7 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:03:01

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16785 REN. 11/30/2023 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com
REGISTERED PROFESSIONAL ENGINEER DAVOR P. GOLIK No. E17151 ELECTRICAL STATE OF CALIFORNIA Exp 09-30-23

TITLE 24 REPORT
BUILDING 'G'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.05 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 1 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	1,996
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in) See Table I

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	1996	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	1996		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 2 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		1,397.2	0		1,397	≥	840	0	=	840	COMPLIES
Unconditioned						≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	24	No	840	☐	☐
Total Designed Watts: CONDITIONED SPACES								840		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 3 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

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

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

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13
Plan Sheet Showing Daylit Zones:
E2.30

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 4 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
CLASSROOM	Classroom, Lecture, or Training Vocational Area	0.7	1,996	1,397.2	No	No
	TOTALS:	1,996		1,397.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 5 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 6 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING H FRANKLIN	**Report Page:**	**(Page 7 of 7)**
Project Address:	2400 TRUXTON AVE	**Date Prepared:**	11/2/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:06:40

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN: 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16785 EXP. 31/08/2023 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
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6702 N. Cedar Suite 205
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Email @ dpgengineering.com
REGISTERED PROFESSIONAL ENGINEER DAVOR P. GOLIK No. E17151 ELECTRICAL STATE OF CALIFORNIA
Exp 09-30-23

TITLE 24 REPORT
BUILDING 'H'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.06 OF SHEETS

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING I FRANKLIN	Report Page:	(Page 1 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Conditioned Floor Area (ft²)	4,004
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (Write in)

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	4004	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4004		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-11-02 14:10:49

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

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	BUILDING I FRANKLIN	Report Page:	(Page 2 of 7)
Project Address:	2400 TRUXTON AVE	Date Prepared:	11/2/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *includes Adjustments	05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	≥	(See Table F)	(See Table P)	=		
Conditioned	2,603				= 2,603	≥	1,680	0	=	1680	COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	35 WATT LED	No	No	35	CEC Default	48	No	1,680	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,680		

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F. INDOOR LIGHTING FIXTURE SCHEDULE

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

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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*

13
Plan Sheet Showing Daylit Zones:
E2.30

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	4,004	2,602.6	No	No
	TOTALS:		4,004	2,602.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

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Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Davor P. Golik P.E.	Documentation Author Signature:
Company: DPG Engineering, Inc.	Signature Date: 2022-11-02
Address: 6702 N Cedar #205	CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710	Phone: 559 275 5144

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: DAVOR P GOLIK P.E.	Responsible Designer Signature:
Company: DPG ENGINEERING	Date Signed: 2022-11-02
Address: 6702 N CEDAR #205	License: E17151
City/State/Zip: FRESNO CA 93710	Phone: 559 276 5144

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122910 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/14/2023

PTN : 63321-382 FILE: 15-6

FRANKLIN ELEMENTARY SCHOOL
MODERNIZATION
2400 TRUXTUN AVENUE
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT S inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16768 EXPIRATION 08/31/2023 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 276-5144
Fax (559) 903-4929
Email @ dpgengineering.com

DAVOR P. GOLIK PROFESSIONAL ENGINEER STATE OF CALIFORNIA Exp 09-30-23

TITLE 24 REPORT
BUILDING 'I'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1316
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/6/21

7.07 OF SHEETS