ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

LEGEND						
SYME	BOLS		NOTHING IN T REGULATIONS			
		0	ABBRE	JST	Joist	THE CONTRAC
		@ # AB AC	Pounds Anchor Bolt Asphalt Concrete	JT KVC	Joint Keen's Veneer Cement	
		AČC AFF AP A/C	Accessibility Above Finish Floor Access Panel Air-conditioning	KD KPL LBS	Knockdown Kick-Plate Pounds	DISCLOSED TO WITHOUT THE
		APC ABV ACOUS ACPL	Above Acoustic(al) Acoustical Plaster	LBT LF LH	Lag Bolt Linear Foot Left Hand	
	GRID LINES	ADD ADD'L ADJ	Addendum Additional Adjustable/Adjacent	LPT LAD'R LAM	Low Point Ladder Laminate(d)	ON THE JOB A
		AGG ALT ALUM ANC	Aggregate Alternate Aluminum Anchor(age)	LAV LBL LVR LOC	Lavatory Label Louver Location	MISPLACEMEN DRAWINGS. T
(G)	GATE SYMBOL	APPROX ARCH/ARCH'L ASB	Approximate(ly) Architect Asbestos	LT MB	Light Machine Bolt, Marker Board	WORK IN THA
_		BBD BC	Bulletin Board Begin Curve Bench Mark	MC MT MAS MAX	Medicine Cabinet Metal Threshold Masonry Maximum	PART 1 PART 2
$\begin{pmatrix} 124\\ A \end{pmatrix}$	DOOR SYMBOL DOOR NUMBER	BMK BOB BUR BD	Bench Mark Bottom of Beam Built-Up Roofing Board	MBRN MECH/MECH'L MED	Membrane Mechanic(al) Medium	PART 3
		BD BEL BIT BLDG	Below Bituminous Building	MFG MFR MIN MIR	Manufacturing Manufacturer Minimum Mirror	PART 4
	WINDOW SYMBOL	BLK BRK BRKR BM	Blocking Break, Brick Breaker Beam	MISC MLDG MOD	Mirror Miscellaneous Molding (Moulding) Modular	PART 5
Т	WINDOW NUMBER T = TEMPERED WH/OCCURS	BOT BRG BRNZ	Bottom Bearing Bronze	MTD MTL('L) MULL	Mounted Material Mullion	PART 6
	,	BVL C&G	Bevel(ed) Curb and Gutter Catch Basin	MWK N NIC	Millwork North Not In Contract	PART 7 PART 8
\land	REVISION NUMBER	CB CF CFL CFRD	Cubic Foot (Feet) Counterflashing Coffered	NTS NAT NOM	Not to Scale Natural Nominal	PART 9 PART 10
		CG CI CIP CISC CISP	Corner Guard Cast Iron Cast Iron Pipe Cast-In-Place Concrete Cast Iron Soil Pipe	OC OCBW OD	On Center On Center Both Ways Outside Diameter	
	CONTROL POINT/DATUM POINT ELEVATION	CISC CISP CJ CIT	Ceiling Joist Control Joint	O/ OA OBS	Over Overall Obscure	PART 11 PART 12
		CJ CJT CK CL &	Caulk(ing) Chain Link Center Line	OFLD OHMS OHWS	Overflow Drain Ovalhead Machine Screw Ovalhead Wood Screw	PARTIAL LIST C
$ \bigcirc \bigcirc $	MATCH LINE (SHADED PORTION IS	CMT CMU CO	Ceramic Mosaic Tile Concrete Masonry Unit Clean-Out	OHD OPHD OPAQ OPNG	Overhead Opposite Hand Opaque Opening	NFPA 10 NFPA 13
	THE SIDE SHOWN)	CÓTG COTW CR CAB	Clean-Out To Grade Clean-Out Thru Wall Curb Return Cabinet	OPP PA	Opposite Planting Area	NFPA 14 NFPA 17
		CEM CER CHAM	Cement Ceramic Chamfer	PBD 또 PLAM	Particle Board Property Line Plastic Laminate(d) Point of Connection	NFPA 17A NFPA 20 NFPA 24
		CHBD CHG CLG CLR	Chalkboard Change Ceiling Clear(ance)	POC POI PT DISP PT RECP	Point of Intersection Paper Towel Dispenser	NFPA 24 NFPA 72
Ĩ		CLS CNTR COL	Closure Counter Column	PVC PART PC CONC	Paper Towel Receptical Poly-Vinyl Chloride Partition Precast Concrete	NFPA 253 NFPA 2001
		COMB COMPO CONC CONST	Combination Composition Concrete Construction	PERF PERIM PL PLAS	Perforated Perimeter Plate Plaster	
		CONT CORR CSK	Construction Continuous Corrugated Countersink	PLAS (P)CPL PNL PNT(D) PRE-FAB	(Portland) Cement Plaster Panel Paint(ed) Pre-Fabricated	IF CONFLICTS TO THE ATTEN
	NORTH ARROW	CSMT CTR CW	Casement Center Cold Water	PRE-FAB PLMG PLYWD	Pre-Fabricated Plumbing Plywood	THESE PROPO
PLAN NORTH		DF DH DA	Drinking Fountain Double Hung Double Acting	R RD RH	Riser Roof Drain Right Hand	CONTRACTOR ON THESE PRO
		DEP DET DIA DIAG	Depression Detail Diameter	RJ RL RO	Roof Joist Ridge Line Rough Opening	
A A8.0	Building Section Sheet Number	DIAG DIM DIV DPPR	Diagonal Dimension Division Depress(ed)	RAD ROW REF REINF	Radius Right Of Way Reference Reinforce(ment)	NECESSARY TO OF QUESTION
		DR DS DSPR	Door Downspout Dispenser	REM REQ RES	Removal Required Resillent	ALL WORK SH
		DWG DWR (D) CW (D) HW	Drawing Drawer (Domestic) Cold Water (Domestic) Hot Water	RET REV RFG RFL	Return Revision Roofing Reflect(ed,ive,or)	CHANGES TO
:		(E) F	Existing East	RM RTSB RWD	Room Rubber Top Set Base Redwood	ARCHITECT, AS
		EDF EF EJ EPB	Electric Drinking Fountain Each Face Expansion Joint	R₩L S&P S	Rainwater Leader Shelf And Pole South	A DSA ACCEP
		EW EA	Electric Panel Board Each Way Each Electric(al)	SC SD	South Solid Core Storm Drain Sanitary Napkin Dispenser Schedule(d)	A "CLASS 2" P DUTIES OF THE
		ELECT'L ELEV'R ELEV EMER	Elevator Elevation Emergency	SKDISP SCH SEC SHLF SHLVG	Section Shelf	GRADING PLA
		ENAM ENCL EQ EQUIP EXH	Enamel Enclosure Equal Equipment	SHUVG SHT SHTG SIM SKLT	Shelving Sheet Sheathing Similar	THE INTENT O
В		EXH EXP EXTR	Exhaust Expansion/Exposed Exterior	SMHC SP	Skylight Sewer Manhole Cover Space(s) Specification(s)	DOCUMENTS PLANS AND SE
	WALL SECTION SHEET NUMBER	FBO FBLKG	Furnished By Others Fire-Blocking Floor Drain	SPEC SQ SS STD	Specification(s) Square Stainless Steel Standard	CUTTING, BOR
		FD FEC FG FGRD	Fire Extinguisher Cabinet Fixed Glass/Finish Grade Finish Grade	STL STOR STRUC	Steel Storage Structure	AND ENGINEE
		FJ FJT	Floor Joist Flush Joint	STRUCT'L SYS T&B	Structural System Top & Bottom	
		FOC FOF FOM FOS FOW	Face Of Concrete/Column Face Of Finish Face Of Masonry Face Of Stud Face Of Wall	T&G T TB	Tongue & Groove Tread Towel Bar	
		FAB FAC FAS FBD	Fabrication(tion) Factory Fasten(er) Fiberboard	THRU TJ TS TOB	Through Tool Joint Tube Steel Top Of Beam	
\square		FBD FBGL FH FHC	Fiberboard Fiberglass Fire Hydrant Fire Hose Cabinet	TOC TOM TOP	Top Of Curb (Conc) Top Of Masonry	
$\begin{pmatrix} 2 \\ A O \end{pmatrix} \longrightarrow$	DETAIL NUMBER SHEET NUMBER	FHMS FHWS FHSS	Flathead Machine Screw Flathead Wood Screw Flathead Stainless steel	TOS TOW TP DISP T PART	Top Of Plate/Top of Parapet Top Of Sheathing Top Of Wall Toilet Paper Dispenser Toilet Partition	
		FIN FLEX FLR FLUOR	Finish(ed,es) Flex(ible) Floor Fluoresent	TSC DISP TEL TEMP	Toilet Seat Cover Dispenser Telephone Tempered	
		FOUND FRMG FRT	Foundation Framing Fire-Retardant	THD THK TKBD TSB	Thread(ed,s) Thick(ness) Tackboard Topset Base	
IOI OFFICE A9.0	ROOM NUMBER/NAME SHEET REFERENCE OF ROOM	FS FTG FURR FUT	Fixed Shelf Footing Furring(ed) Future	TYP TW	Typical Tread Width	
		FV GB	Field Verify Grab Bar	UNO VIF VG	Unless Noted Otherwise Verify in Field Vertical Grain	
		GI GA GALV GL	Galvanized Iron Gauge Galvanize Glass	VO VR VTR	Vertical Grain Vent Over (Offset) Vent Riser Vent Thru Roof	
l - &	REVISED FINISH GRADE EXISTING GRADE CALLED (E)	GLZG GRAV GRD	Glazing Gravel Grade	VAR VCT VCTWB VEN	Varnish Vinyl Composition Tile Vinyl Composition Tackable Wallboard Veneer	4
		GSKT GYPBD GYPLA	Gasket Gypsum Board Gypsum Lath	VERT VPB	Vertical Vapor Barrier	
901	KEYNOTE	НВ НС НСМ	Hose Bibb Hollow Core Hazardous Containing Material	W WGL WHCAB	West Wire Glass Wall Hung Cabinet	
		HJT HM HVAC	Head Joint Hollow Metal Heating, Ventilating &	WI WM WTW WWM	Wrought Iron Wire Mess Wall To Wall Welded Wire Mesh	
$\langle \mathcal{D} \rangle$	SIGNS SEE SCHEDULE A5.0	HBD HDR HDWD	Air-Conditioning Hardboard Header Hardwood	W/ W/O WIND	With Without Window	
		HDWR HEX HORIZ	Hardware Hexagonal Horizontal	WP WSCT WST	Waterproof(ing) Wainscot Waste	
A	KITCHEN EQUIPMENT	HT HTG HW	Height Heating Hot Water	WT WD	Weight Wood	
_	ADA CLEARANCE	ID INCL INSTR	Inside Diameter Include(ing) Instruction(tor)	X-FMR	Transformer	
	SEE SCHEDULE	INSUL INTM INTR	Insulate(tion) Intermediate Interior			

2324 VERDE STREET

FOR BAKERSFIELD CITY SCHOOL DISTRICT BAKERSFIELD, KERN COUNTY, CALIFORNIA

PROJECT DATA SCOPE ENERAL NOTES IE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES LL LABOR, MATERIALS, AND EQUIPN RESTRICTIONS, ETC. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS ALL LABOR, MATERIALS, AND EQUIPMENT / THE WORK INDICATED, CHILLER SYSTEM & CEILINGS, UNIT VENTILATORS AND MISC D WORK SHALL INCLUDE BUT NOT NECESSA HVAC UPGRADES AT BUILDINGS A, B, C, E UPGRADES AT RESTROOMS, FRAMING, DC FINISHES, ROOFING, PLUMBING, ELECTRICAT TOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. ALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK 35, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OF INDICATED BY PLANS AND/OR SPECIFIC OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS HAZARDO NSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITION ND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. REMOVAL IT, 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 THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT BEFORE COMMENCING ALL BE IN CONFORMANCE WITH THE CURRENTLY ADOPTED EDITION OF THE: 2022CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R. THE GENERAL CONTRACTOR SHALL 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. THE ARCHITECT IF ASBESTOS OR OT (2018 INTERNATIONAL BUILDING CODE, VOLUME 1 AND 2 WITH CALIFORNIA AMENDMENTS) UNCOVERED IN ANY LOCATION OT 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. SPECIFICATIONS WHERE WORK OF (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA) 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. COST OF HAZARDOUS MATERIAL RE (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO) BY THE GENERAL CONTRACTOR, AS 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. HAZARDOUS MATERIAL TESTING WO (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND CALIFORNIA AMENDMENTS) CONSULTANT ARE NOT A PART OF 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R. CERTIFIED ASBESTOS ABATEMENT C CURRENTLY VACANT 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R THE COST OF AND SUBSEQUENT REA 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R CONTAINING HAZARDOUS MATERIA (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL) CONTRACTOR SHALL BE REQUIRED 2019 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. HAZARDOUS MATERIALS PER REQUIR

(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 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R. 2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

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

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

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

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

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

THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE S REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. TED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

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

ANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LEGAL ORDINANCES. THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA GULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT 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 PECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. RING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT EER WITH THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT.

ESIGN TEAM **OWNER**

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

ARCHITECT

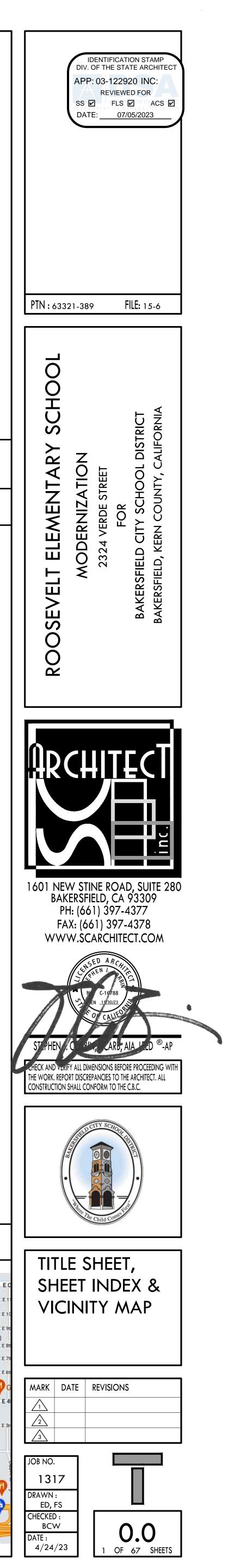
SCARCHITECT INC. 1601 NEW STINE ROAD, SUITE 280 BAKERSFIELD, CA. 93309 (661) 397-4377 FAX (661) 397-4378

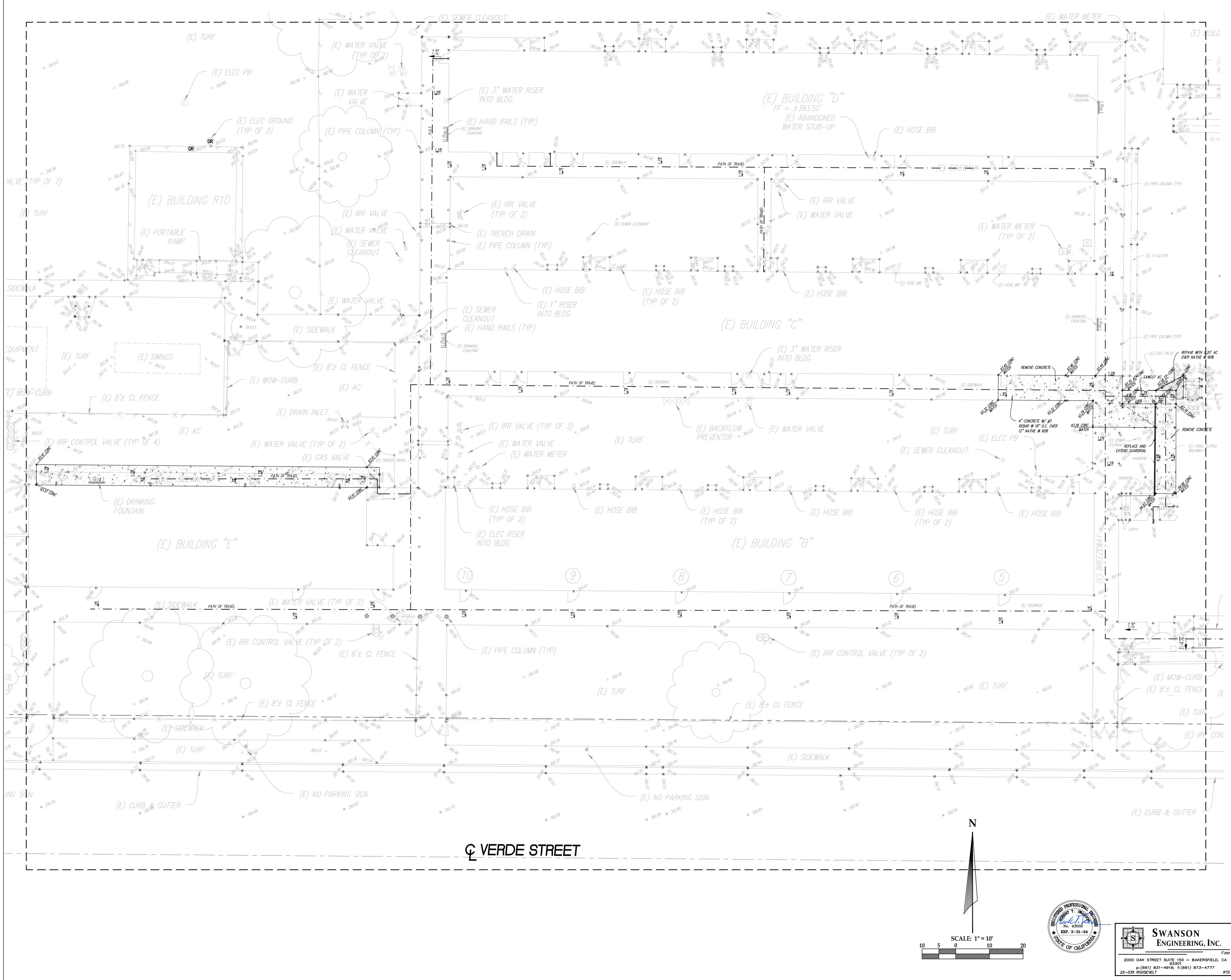
CIVIL SWANSON ENGINEERING 2000 OAK ST., SUITE 150 BAKERSFIELD, CA. 93301 (661) 831-4919 FAX (661) 831-4929

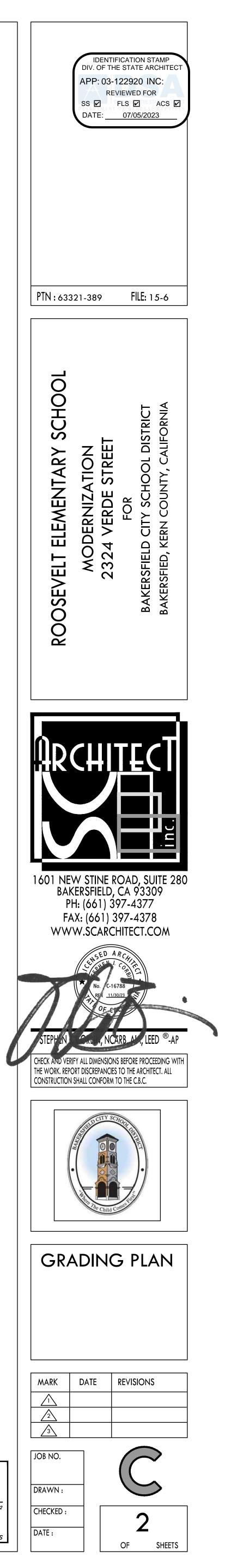
MECHANICAL/ PLUMBING BASKIN MECHANICAL ENGINEERS INC. 5500 MING AVE., SUITE 251 BAKERSFIELD, CA. 93309 (661) 397-2114 FAX (661) 397-2116

CONSULTING ENGINEERS

SCOPE OF WORK	SHEET INDEX (67) SHEETS TOTAL
BASE BID: ALL LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED TO DEMO EXISTING ROOFING FOR THE WORK INDICATED, CHILLER SYSTEM & YARD, HAZARDOUS MATERIAL REMOVAL, CEILINGS, UNIT VENTILATORS AND MISC DEMOLITION AT (E) RESTROOMS AS INDICATED. WORK SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO; PROVIDE AND INSTALL ALL HVAC UPGRADES AT BUILDINGS A, B, C, D & E, ACCESSIBLE PATH OF TRAVEL, ADA UPGRADES AT RESTROOMS, FRAMING, DOORS, FRAMES, HARDWARE, AND INTERIOR FINISHES, ROOFING, PLUMBING, ELECTRICAL, FIRE ALARM, LIGHTING AND POWER AS INDICATED BY PLANS AND/OR SPECIFICATIONS CONTAINED HEREIN.	TITLE TO.0 TITLE SHEET, SHEET INDEX & VICINITY MAP CIVIL C2 GRADING PLAN
HAZARDOUS MATERIAL REMOVAL NOTES	ARCHITECTURALA1.0OVERALL SITE PLANA1.1PARTIAL DEMO SITE PLAN & PARTIAL SITE PLANA2.0FLOOR PLAN BUILDING 'A', PARTIAL FLOOR PLAN & DEMO FLOOR PLANA2.1FLOOR PLAN BUILDING 'B', PARTIAL FLOOR PLAN & DEMO FLOOR PLANA2.2FLOOR PLAN BUILDING 'C', PARTIAL FLOOR PLAN & DEMO FLOOR PLANA2.3FLOOR PLAN BUILDING 'D', PARTIAL FLOOR PLAN & DEMO FLOOR PLANA2.4FLOOR PLAN BUILDING 'E' & DEMO FLOOR PLAN BUILDING 'E'A4.0REFLECTED CEILING PLAN BUILDING 'A & PARTIAL CEILING JOIST PLAN
 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. COST OF HAZARDOUS MATERIAL REMOVAL/ASBESTOS ABATEMENT SHALL BE BORE BY THE GENERAL CONTRACTOR, AS PART OF THIS CONTRACT. ASBESTOS AND 	 A4.1 REFLECTED CEILING PLANS BUILDINGS 'B', 'C' & 'D' A4.2 REFLECTED CEILING PLAN BUILDING 'E' & PARTIAL CEILING JOIST PLAN A5.0 DOOR SCHEDULE, ROOM FINISH SCHEDULE & DETAILS A6.0 PARTIAL ROOF PLAN BUILDING 'B', 'C' & 'D' A6.1 PARTIAL ROOF PLAN BUILDING 'E' A8.0 SECTIONS A9.0 INTERIOR ELEVATIONS A9.1 INTERIOR ELEVATIONS
 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., 	A10.0 DETAILS A10.1 DETAILS A10.2 DETAILS STRUCTURAL S0.1 GENERAL NOTES S2.0 PARTIAL ROOF FRAMING PLANS S2.1 PARTIAL ROOF FRAMING PLAN
 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. 	S5.0 DETAILS MECHANICAL SITE PLAN M1.0 MECHANICAL SITE PLAN M1.1 MECHANICAL DETAILS M1.2 MECHANICAL DETAILS M1.3 MECHANICAL DETAILS M1.4 MECHANICAL DETAILS
 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. 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. 	 M2.0 MECHANICAL PLAN BUILDING 'A' M2.1 MECHANICAL PLAN BUILDING 'B' AND BUILDING 'C' M2.2 MECHANICAL PLAN BUILDING 'D' AND BUILDING 'E' M6.1 MECHANICAL PARTIAL ROOF BUILDING 'B', 'C' & 'D' M6.2 MECHANICAL PARTIAL ROOF BUILDING 'E' M7.0 BUILDING 'B' TITLE-24 M7.1 BUILDING 'B' TITLE-24 M7.2 BUILDING 'C' TITLE-24
 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. SEE SPECIFICATION SECTION 02 62 00 HAZARDOUS MATERIALS ABATEMENT AND REMOVAL FOR A LIST OF IDENTIFIED MATERIALS REQUIRING ABATEMENT. 	M7.3 BUILDING 'C' TITLE-24 M7.4 BUILDING 'D' TITLE-24 M7.5 BUILDING 'D' TITLE-24 M7.6 BUILDING 'E' TITLE-24 M7.7 BUILDING 'E' TITLE-24 PLUMBING SITE PLAN
SITE DATA	P1.0 PLOMBING STIE PLAN P2.0 PLUMBING PLAN & DEMO PLAN - BUILDING 'A' P2.1 PLUMBING PLAN BUILDINGS 'B' & 'C' P2.2 PLUMBING PLAN & DEMO PLAN - BUILDING 'D' P2.3 PLUMBING PLAN & DEMO PLAN - BUILDING 'E' P3.0 BRACING DETAILS
SEISMIC DESIGN LOADS: SEISMIC IMPORTANCE FACTOR IE	ELECT. SITE PLAN, SYMBOL LEGEND, DETAILS AND NOTES E1.10 ELECT. SINGLE LINE DIAGRAM, DETAILS AND SCHEDULES E2.10 BLDGS A & E LIGHTING FLOOR PLANS, DETAILS AND NOTES E2.20 BLDGS A, B, C, D, E DAYLIT LIGHTING FLOOR PLANS AND NOTES E2.30 BLDGS A, B, C, D, E DAYLIT LIGHTING FLOOR PLANS E3.10 BLDGS A, E POWVER & DEMO FLOOR PLANS E3.20 BLDGS B, C & D POWER FLOOR PLANS E4.00 F.A. SITE PLAN, SYMBOL LEGEND, DETAILS, NOTES AND SCHEDULES E4.00 F.A. SITE PLAN, SYMBOL LEGEND, DETAILS, NOTES AND SCHEDULES E4.10 BLDGS B, C & D FIRE ALARM FLOOR PLANS E4.20 FIRE ALARM FLOOR PLANS E4.30 FIRE ALARM FLOOR PLANS E5.00 PANEL SCHEDULES, FIXTURE SCHEDULE AND VOLTAGE DROP CALC'S E6.00 NRCC REPORT E7.01 TITLE 24 REPORT BU
	VICINITY MAP
FAX (213) 744-1515	Firestone Grill California Ave Cali
ELECTRICAL DPG ENGINEERING, INC. 6702 N. CEDAR AVE., SUITE 205 FRESNO, CA. 93710 (559) 276-5144 FAX (559) 900-4929	a Plasma verde St 9 9 9 9 9 9 9 9 9 9 9 9 9







PATH OF TRAVEL:

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" AT I: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 SPAES (IIB-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 (IIB-403.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (IIB-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (IIB-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 I) 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.

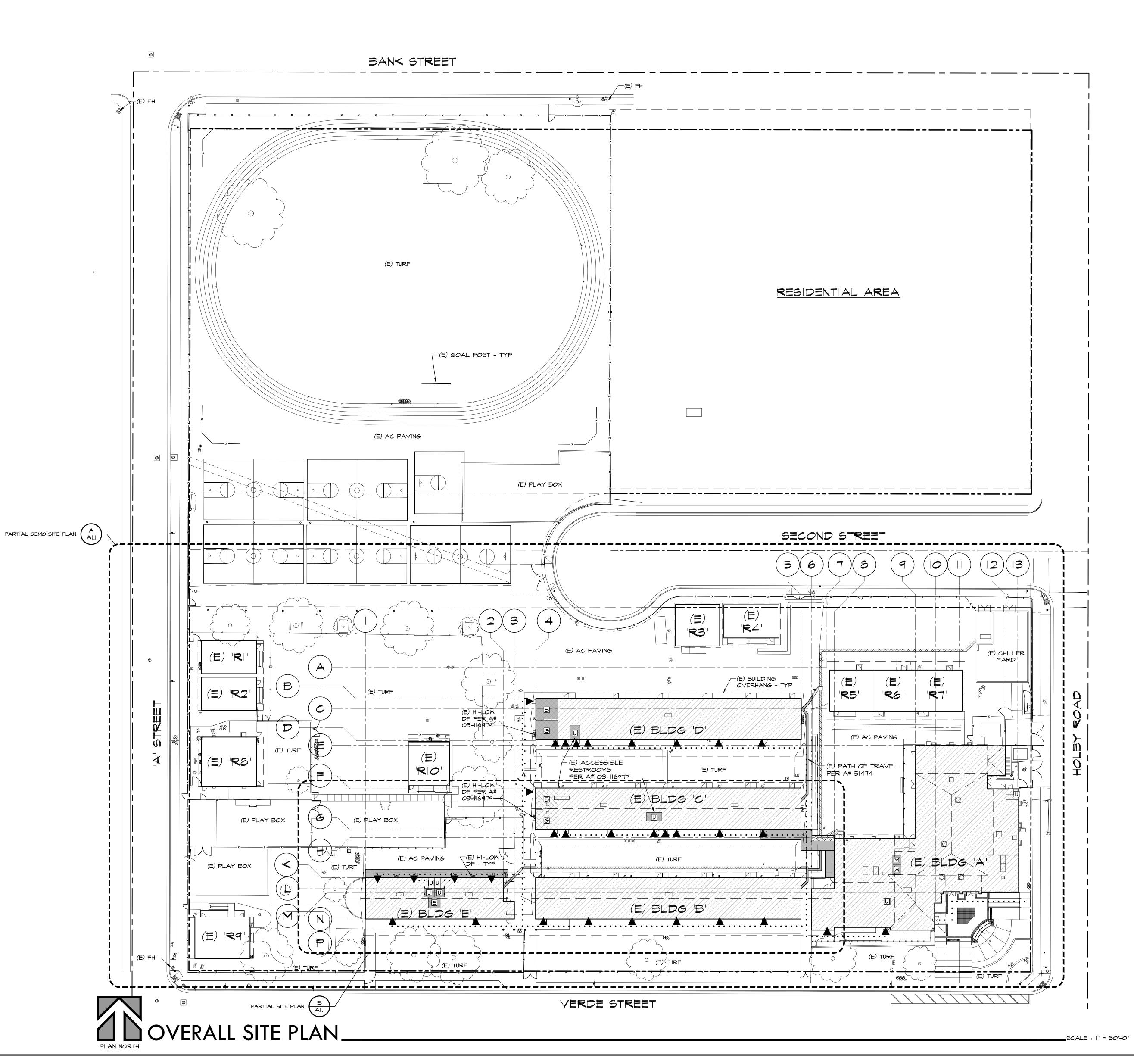
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

SITE PLAN GENERAL NOTES:

PERFORMING THE WORK REQUIRED.

- I. SEE ELECTRICAL 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.
- CONTRACTOR TO FV 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.
 CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF

			CAN	MPUS I	RECTO	\mathbf{X}		
BLDG ID#	BUILDING	DESCR	RIPTION		DSA A#			CERTIFICATION STATUS : DATE
(E) BLDG 'A' ADMINISTRATION / LIBRARY			#3 2				-	
				#2938				-
				#11362				-
				#5 474				YES: 8/5/1993
				#45050				-
				#03-116979				YES: 6/9/2022
(E) BLDG 'B'	CLASSROOM	1 BUILD	ING	#11362				-
				#5 474				YES: 8/5/1993
(E) BLDG 'C'	CLASSROOM	1 BUILD	ING	#11362				-
				#5 474				YES: 8/5/1993
				#03-116979				YES: 6/9/2022
(E) BLDG 'D'	CLASSROOM	1 BUILD	ING	#11362				-
				#5 474				YES: 8/5/1993
				#03-116979	#03-116979			
(E) BLDG 'E' KINDERGARTEN		#11362			-			
				#5 474				YES: 8/5/1993
(E) 'R '	SPECIAL ED / PRE-K			-			-	
(E) 'R2'	ТК			-				-
(E) 'R3'	CLASSROON	1		#17766				-
(E) 'R4'	CLASSROON	1		#9873			-	
				#11362				-
(E) ' R5 '	CLASSROON	1		#17766				-
(E) ' R6 '	CLASSROOM	1		#17766				-
(E) 'R7'	CLASSROOM	1		#17766				-
(E) 'R8'	PRE-K			#03-110694				YES: 7/21/2008
(E) 'R9'	PTC			#6 68				NO
(E) 'RIO'	CLASSROOM	1		#03-116979			YES: 6/9/2022	
	B	JILD	ING C		ANALYSI	5		
BUILDING ID#	BLDG OCC. TYPE		BASIC ALLOWABLE		ALLOWABLE STORIES/	ACTUAL AREA		TOTAL SQUARE FOOTAGE
		CONST	AREA	STRY/FT	HT ABV GRADE	TOTAL		A /
(E) BLDG 'A'		V-B	15,500	STRY/+25'-0"	2 STRY/40'-0"	12,334 SF		34 < 15,500 OK
(E) BLDG 'B'		V-B	9,500	STRY/+16'-6"	STRY/40'-0"	5,774 SF		174 < 9,500 OK
(E) BLDG 'C'		V-B	9,500	STRY/+16'-6"	STRY/40'-0"	5,774 SF		174 < 9,500 OK
(E) BLDG 'D'		V-B	9,500	STRY/+16'-6"	I STRY/40'-0"	5,774 SF	-	174 < 9,500 OK
(E) BLDG 'E'	E	∨-В	9,500	STRY/+16'-6"	STRY/40'-0"	3,102 SF	3,1	02 < 9,500 OK



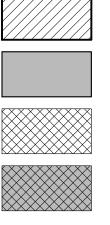


NO WORK SCHEDULE FOR THIS BUILDING

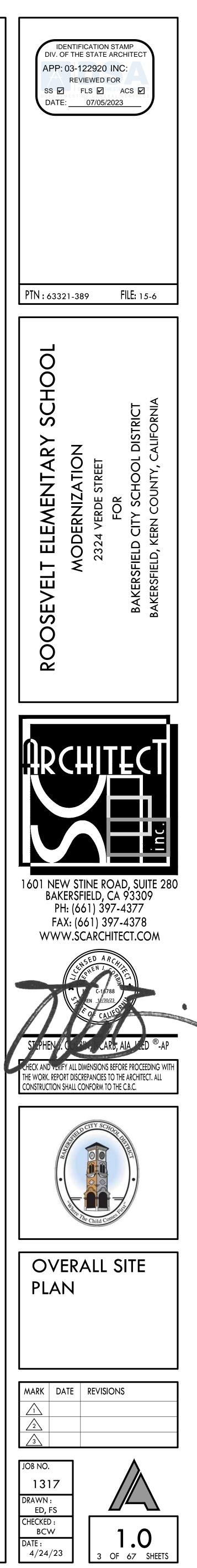
AREA OF SCHEDULED WORK PER THIS APPLICATION

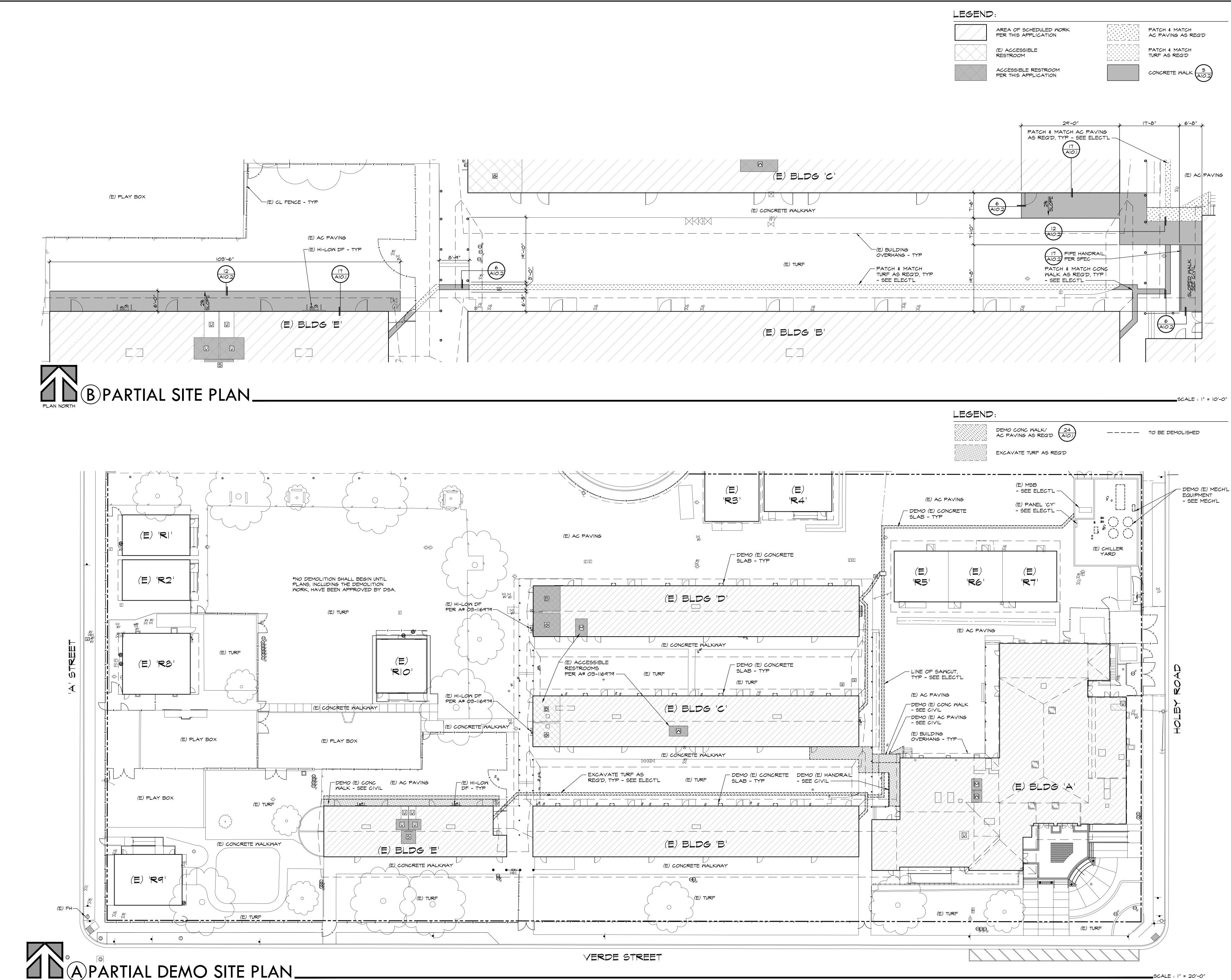


(E) ACCESSIBLE RESTROOM

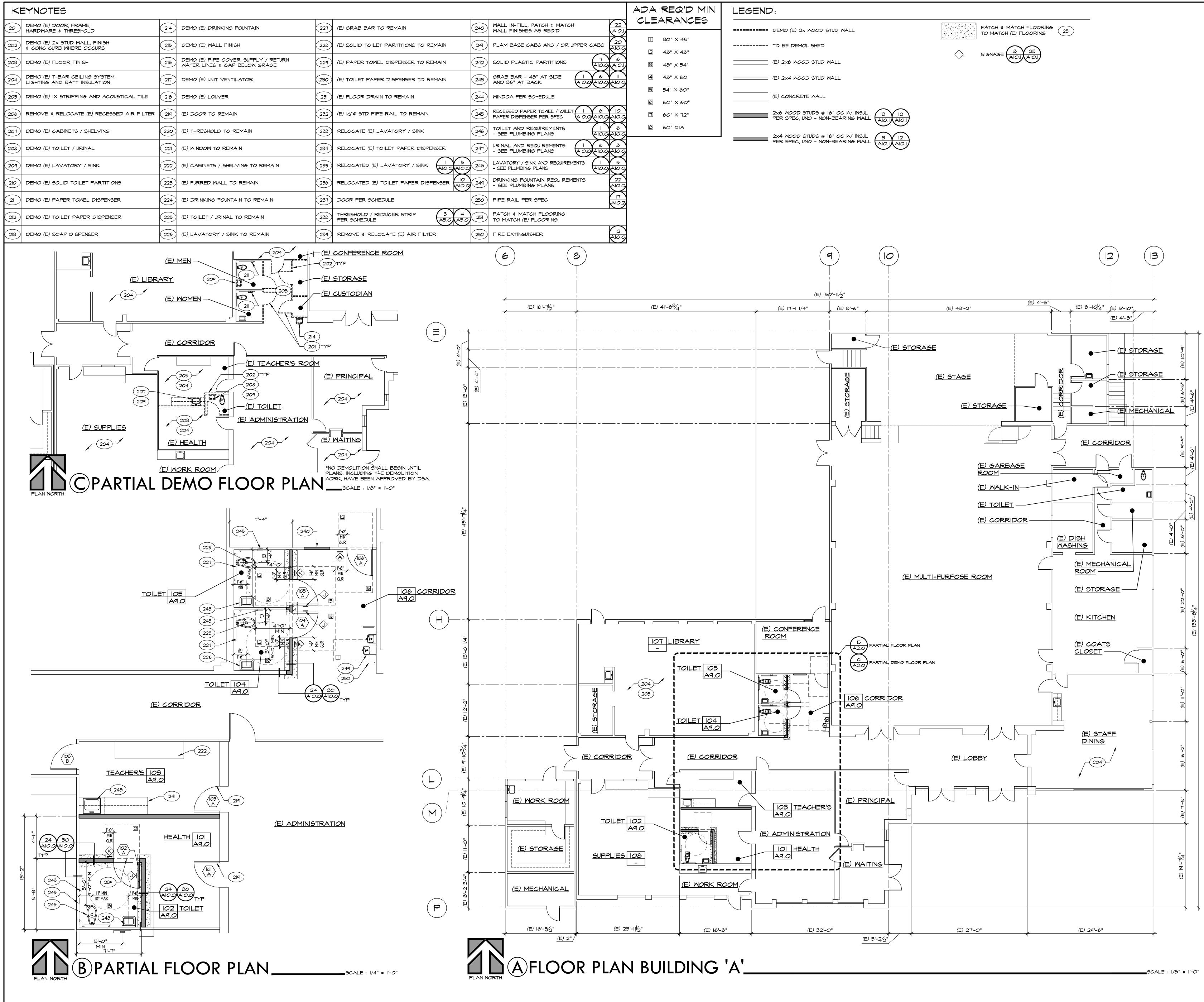


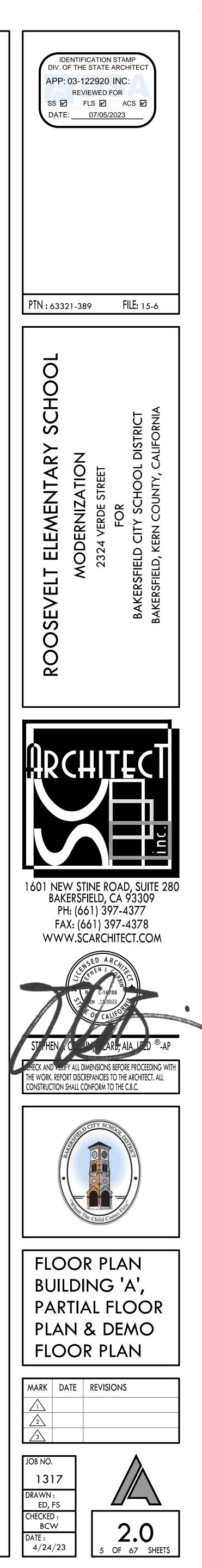
ACCESSIBLE RESTROOM PER THIS APPLICATION







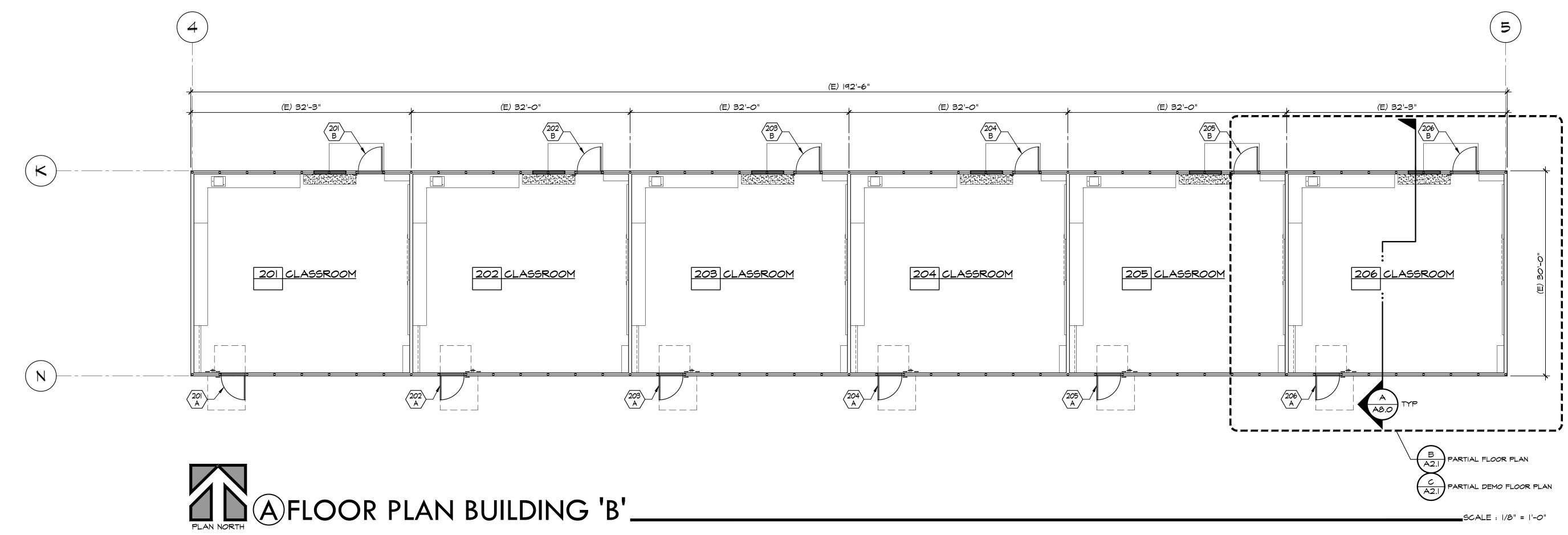




K	EYNOTES
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD
202	DEMO (E) 2× STUD WALL, FINISH & CONC CURB WHERE OCCURS
203	DEMO (E) FLOOR FINISH
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION
205	DEMO (E) IX STRIPPING AND ACOUSTICAL TILE
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER
(207)	DEMO (E) CABINETS / SHELVING
208	DEMO (E) TOILET / URINAL
(209)	DEMO (E) LAVATORY / SINK
210	DEMO (E) SOLID TOILET PARTITIONS
	DEMO (E) PAPER TOWEL DISPENSER
211	DEMO (E) TOILET PAPER DISPENSER
)	
(2 3)	DEMO (E) SOAP DISPENSER
(2 4)	DEMO (E) DRINKING FOUNTAIN
215	DEMO (E) WALL FINISH
(216)	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE
217	DEMO (E) UNIT VENTILATOR
218	DEMO (E) LOUVER
219	(E) DOOR TO REMAIN
220	(E) THRESHOLD TO REMAIN
221	(E) WINDOW TO REMAIN
222	(E) CABINETS / SHELVING TO REMAIN
223	(E) FURRED WALL TO REMAIN
224	(E) DRINKING FOUNTAIN TO REMAIN
225	(E) TOILET / URINAL TO REMAIN
226	(E) LAVATORY / SINK TO REMAIN
227	(E) GRAB BAR TO REMAIN
228	(E) SOLID TOILET PARTITIONS TO REMAIN
229	(E) PAPER TOWEL DISPENSER TO REMAIN
230	(E) TOILET PAPER DISPENSER TO REMAIN
231	(E) FLOOR DRAIN TO REMAIN
232	(E) 1/2"\$ STD PIPE RAIL TO REMAIN
233	RELOCATE (E) LAVATORY / SINK
234	RELOCATE (E) TOILET PAPER DISPENSER
(235)	
236	RELOCATED (E) TOILET PAPER DISPENSER
(237)	DOOR PER SCHEDULE
(238)	THRESHOLD / REDUCER STRIP
239	PER SCHEDULE A5.0 A5.0 A5.0 A5.0
230	WALL IN-FILL, PATCH & MATCH 22
240	WALL FINISHES AS REQ'D AIO.I PLAM BASE CABS AND / OR UPPER CABS 20
241	
242	GRAB BAR - 48" AT SIDE I 6 II
)	AND 36" AT BACK A10.0 A10.0 A10.0
244	RECESSED PAPER TOWEL /TOILET
(245)	TOILET AND REQUIREMENTS
\	- SEE PLUMBING PLANS AIO.O AIO.C
(246)	URINAL AND REQUIREMENTS (Y 6 Y 8
246	- SEE PLUMBING PLANS AIO.O AIO.O AIO.O
)	LAVATORY / SINK AND REQUIREMENTS
247	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS 22 AIO.0 A
247 248	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS PIPE RAIL PER SPEC 1 5 AIO.O AIO.C AIO.C 17 AIO.2 17 AIO
247 248 249	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS PIPE RAIL PER SPEC. 1 5 AIO.O AIO.

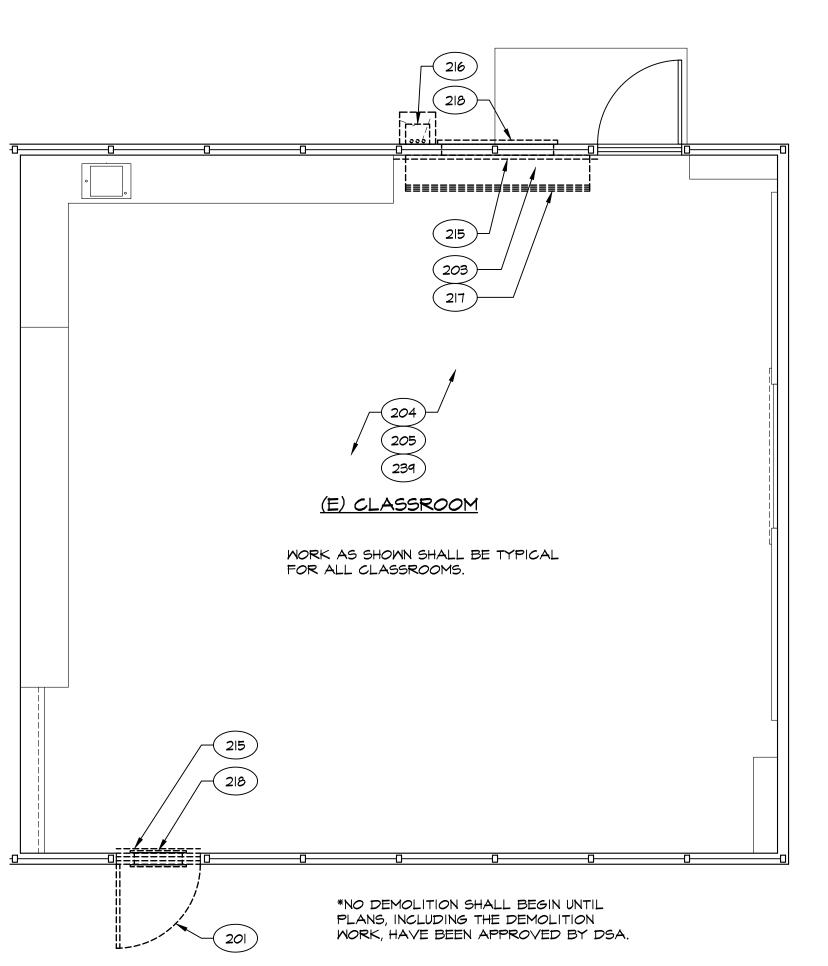
ADA REQ'D MIN	LEGEND:
CLEARANCES	
∏ 30" × 48"	(E) 2× WOOD STUD WALL
 2 48" × 48"	DEMO (E) CONC SLAB AS REQ'D
3 48" × 54"	
_	
4 48" × 60"	TO MATCH (E) FLOORING
5 54" × 60"	
6 60" × 60"	
☐ 60" × 66"	
8 60" DIA	

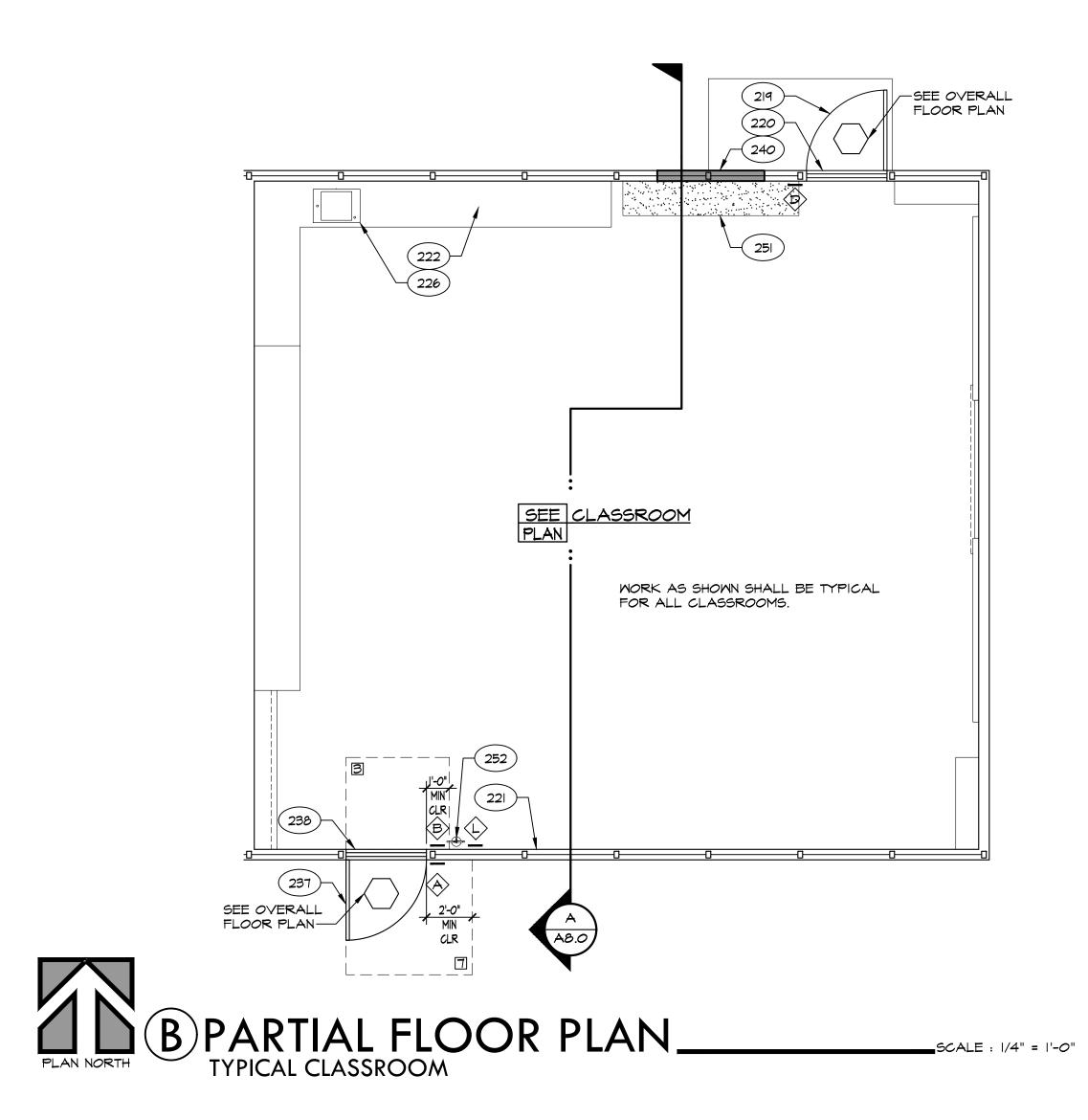


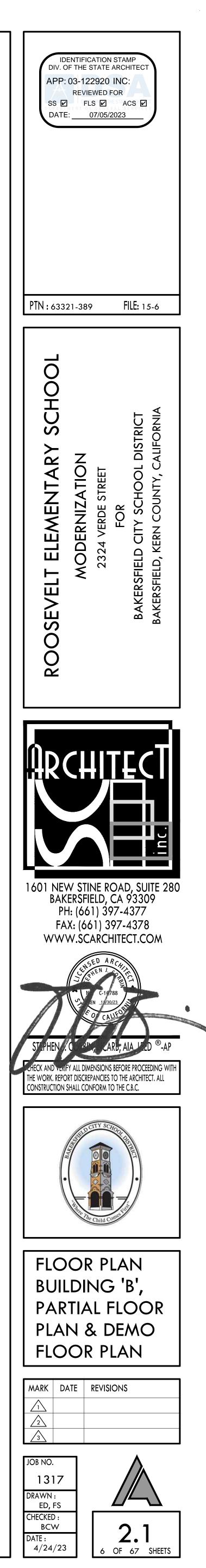


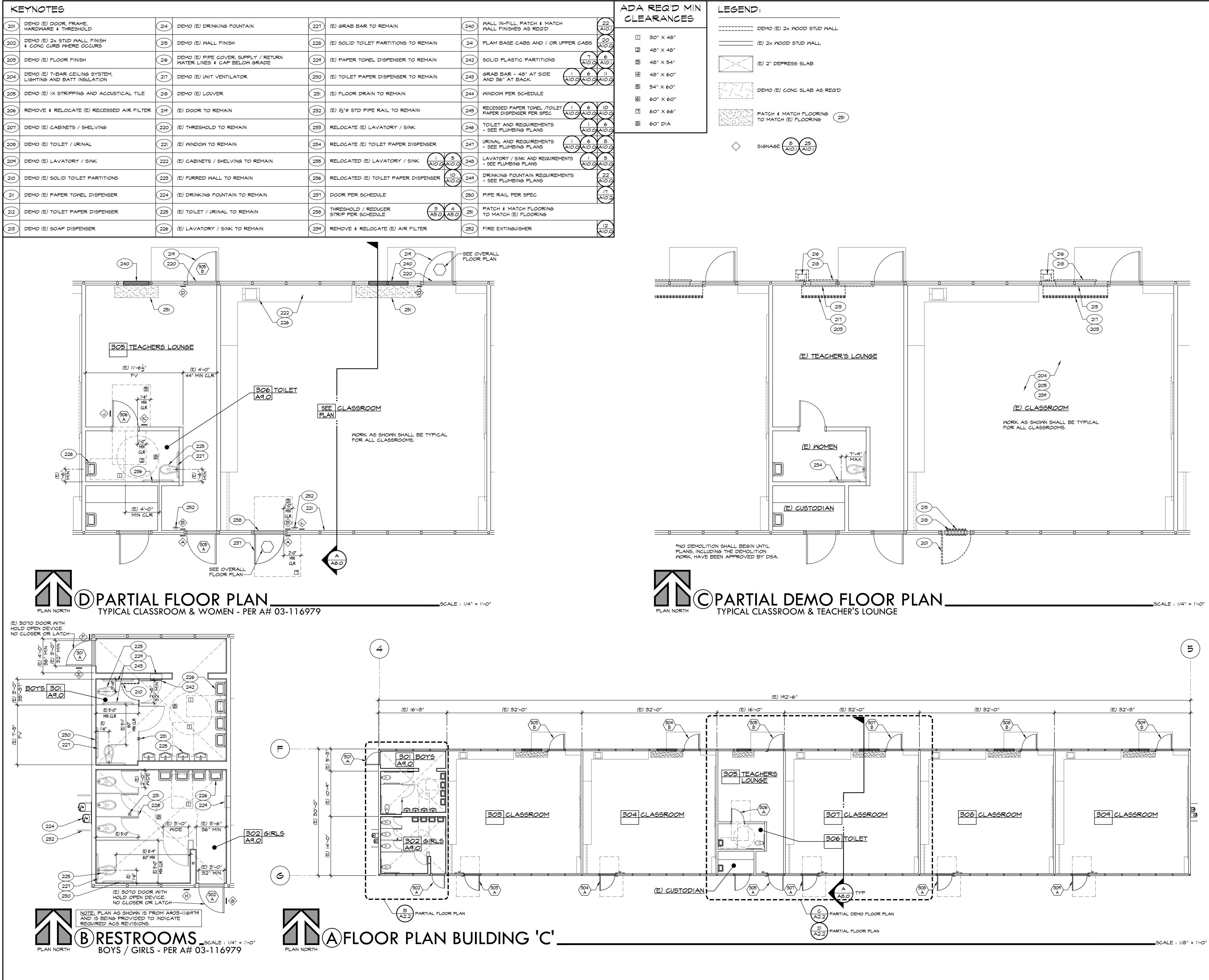


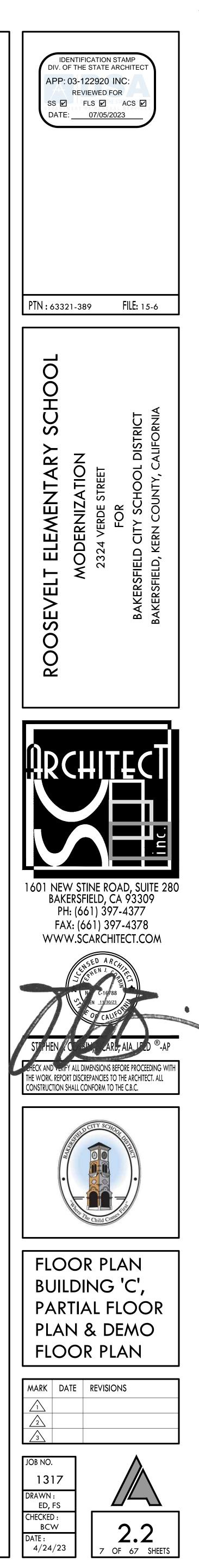


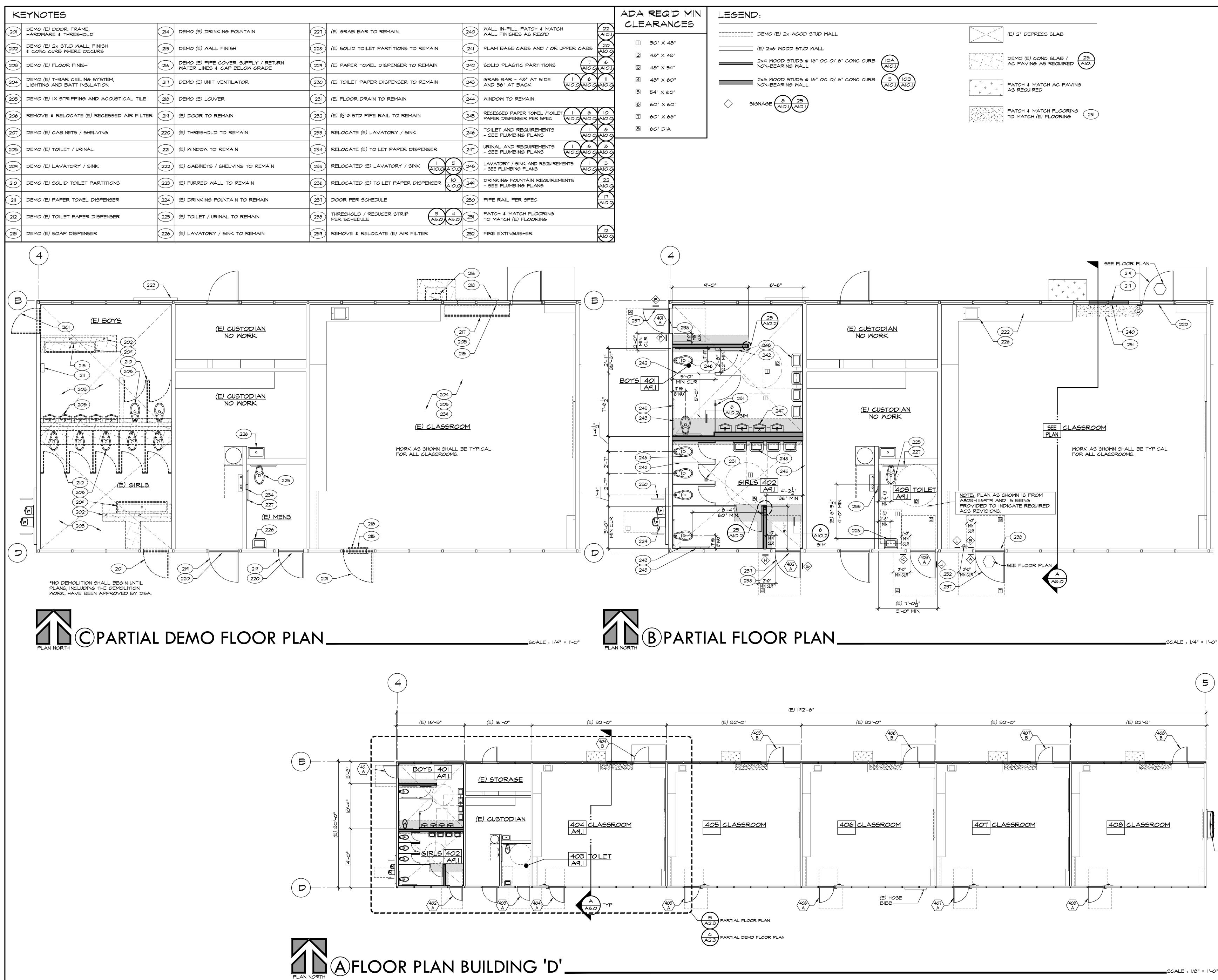






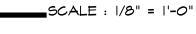




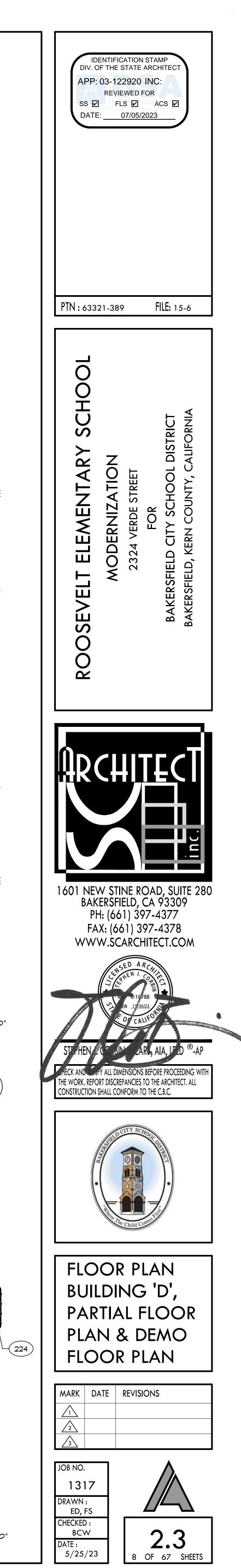


			A
R TO REMAIN	240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	
LET PARTITIONS TO REMAIN	241	PLAM BASE CABS AND / OR UPPER CABS A10.0	
WEL DISPENSER TO REMAIN	242	SOLID PLASTIC PARTITIONS	
PER DISPENSER TO REMAIN	243	GRAB BAR - 48" AT SIDE I 6 II AND 36" AT BACK AIO.0 AIO.0 AIO.0	
ZAIN TO REMAIN	244	WINDOW TO REMAIN	
PIPE RAIL TO REMAIN	245	RECESSED PAPER TOWEL /TOILET	
) LAVATORY / SINK	246	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	
) TOILET PAPER DISPENSER	247	URINAL AND REQUIREMENTS	
E) LAVATORY / SINK	248	LAVATORY / SINK AND REQUIREMENTS	
E) TOILET PAPER DISPENSER	249	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	
CHEDULE	250	PIPE RAIL PER SPEC	
REDUCER STRIP E 34 A5.0 A5.0	251	PATCH & MATCH FLOORING TO MATCH (E) FLOORING	
ELOCATE (E) AIR FILTER	252		

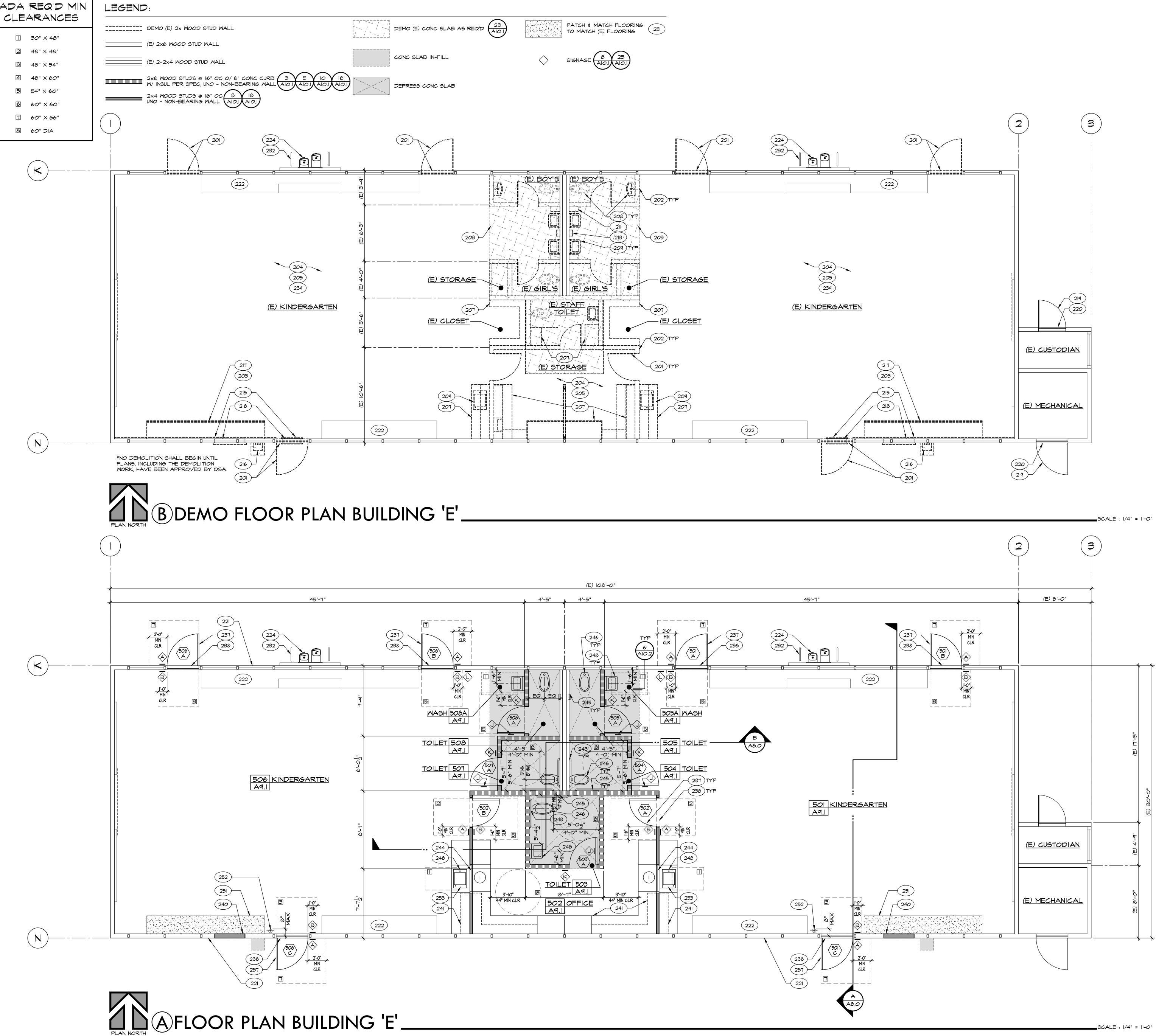
	ARANCES
	30" × 48"
2	48" × 48"
3	48" × 54"
4	48" × 60"
5	54" × 60"
6	60" × 60"
7	60" × 66"
ප	60" DIA



2X WOOD STUD WALL	(E) 2" DEPRESS SLAB
DOD STUD WALL	
RING WALL	DEMO (E) CONC SLAB / AC PAVING AS REQUIRED AIO.I
STUDS @ 16" OC O/ 6" CONC CURB	$\begin{bmatrix} + & + & + \\ + & + & + \\ + & + & + \\ + & + &$
25 0.1 AIO.1	PATCH & MATCH FLOORING

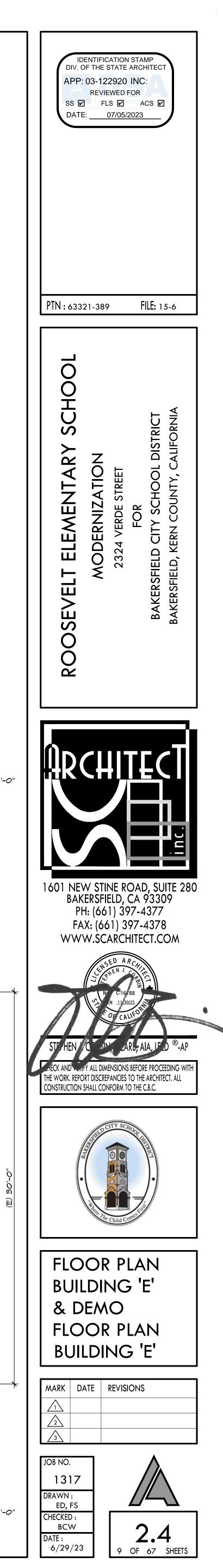


K	EYNOTES	F
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD	
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	
203	DEMO (E) FLOOR FINISH	
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION	
205	DEMO (E) IX STRIPPING AND ACOUSTICAL TILE	
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER	
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213	DEMO (E) SOAP DISPENSER	
214	DEMO (E) DRINKING FOUNTAIN	
214	DEMO (E) WALL FINISH	
	DEMO (E) PIPE COVER, SUPPLY / RETURN	
(216)	WATER LINES & CAP BELOW GRADE	
	DEMO (E) UNIT VENTILATOR	
(218)	DEMO (E) LOUVER	
(219)	(E) DOOR TO REMAIN	
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235	RELOCATED (E) LAVATORY / SINK	
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240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	
241	PLAM BASE CABS AND / OR UPPER CABS	
242		
(243)	GRAB BAR - 48" AT SIDE 6	
243	AND 36" AT BACK AIO. AIO. AIO. AIO. AIO. AIO. AIO. AIO.	
245	RECESSED PAPER TOWEL /TOILET	
245	PAPER DISPENSER PER SPEC AIO.0 AIO.0 AIO.0 TOILET AND REQUIREMENTS I 6	
246	- SEE PLUMBING PLANS A10.0 A10.0 URINAL AND REQUIREMENTS I 6 8	
	- SEE PLUMBING PLANS AIO.0 AIO.0 AIO.0 LAVATORY / SINK AND REQUIREMENTS I 5	
(248) (247)	- SEE PLUMBING PLANS AIO.OAIO.O DRINKING FOUNTAIN REQUIREMENTS 22	
(249)	- SEE PLUMBING PLANS	
(250)	PIPE RAIL PER SPEC	
(251)	TO MATCH (E) FLOORING	
252	FIRE EXTINGUISHER	
253	KNEE SPACE REQUIREMENTS	

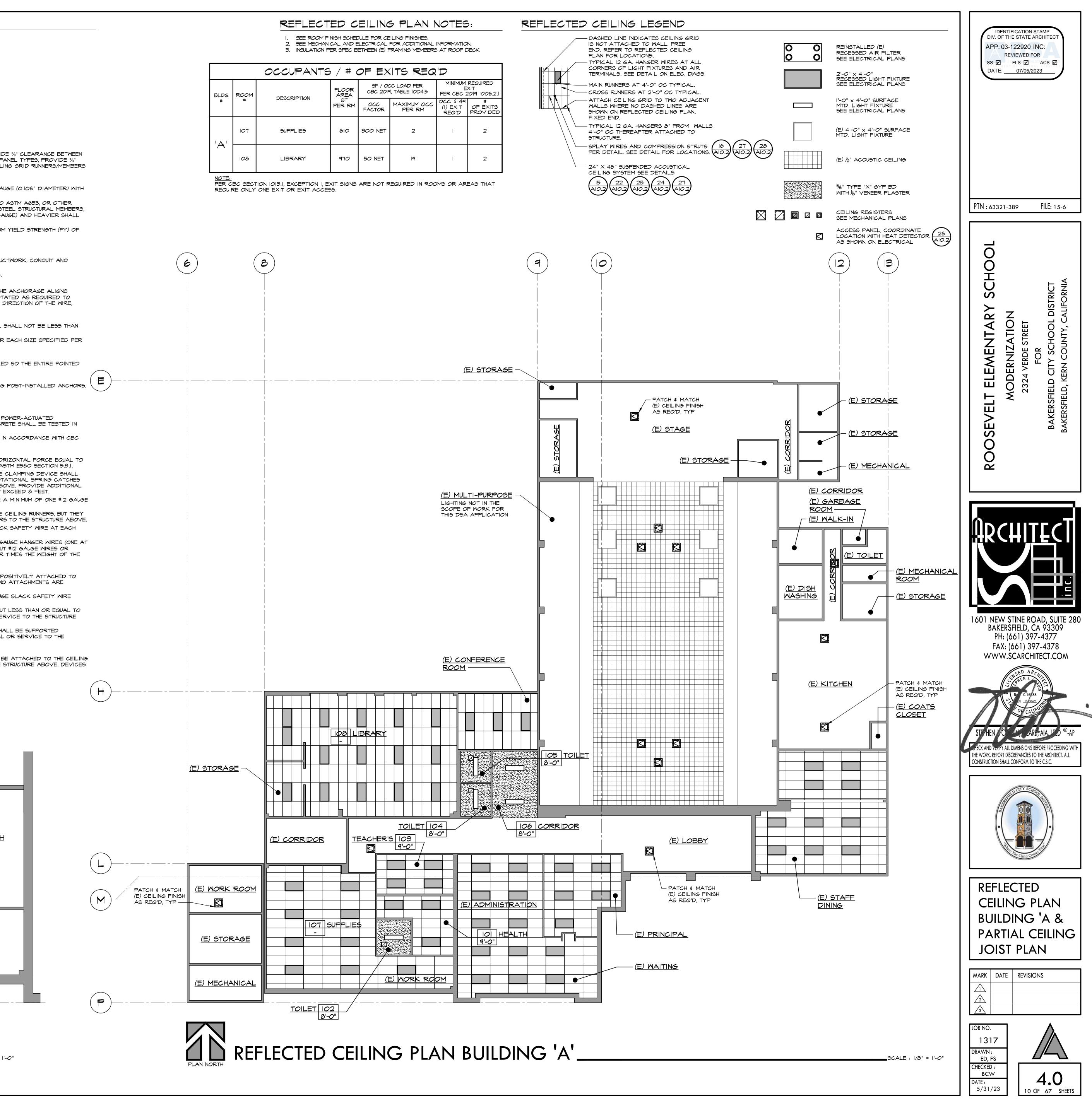




SCALE : 1/4" = 1'-0"



SUS	SPENDED CEILING NOTES (AC	COUSTICAL)
І. І.ОІ	CEILING SYSTEM GENERAL NOTES CEILING SYSTEM COMPONENTS SHALL COMPLY WITH A	STM C635 AND SECTION 5.1 OF ASTM E580.
1.02 1.03	THE CEILING GRID SYSTEM MUST BE RATED HEAVY DU CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S)	IS/ARE PART OF THE SCOPE OF THIS PROJECT:
	MANUFACTURER: PRODUCT NAME:	(ARMSTRONG SUSPENDED CEILING SYSTEM OR APPROVED EQUAL) PRELUDE XL 15/16" CLASSIFICATION OF CEILING GRID IS HEAVY-DUTY
	EVALUATION REPORT TYPE AND NUMBER: MAIN RUNNER PART, MODEL, OR CATALOG NUMBER:	ICC # ESR-1308 #7301
	CROSS RUNNER PART, MODEL, CATALOG NUMBER:	 # <u>XL 7341</u> 2 FOOT CROSS-T # <u>XL 7341</u>
	SEISMIC WALL CLIP: MANUFACTURER'S MODEL:	SEISMIC JOINT CLIP FOR RUNNER SPLICE <u>SJMRI5</u> & USE EXPANSION SLEEVE <u>ES49</u>
		5, AIR TERMINALS OR DEVICES. LE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVID SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING P.
2.	CLEARANCE BETWEEN THE CEILING PANEL AND THE WA	ALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEIL SE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.
		ANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GA 5TH = 70 KSI.
2.02	EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF	R METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED ST R SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GA
2.03	HAVE A MINIMUM YIELD STRENGTH OF 50KSI. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI COM	0.3/UL 797 CARBON STEEL WITH 690 GALVANIZING. EMT SHALL HAVE MINIMUN
3. 3. <i>0</i> 1	30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 4 ATTACHMENT OF HANGER AND BRACING WIRES SEPARATE ALL CEILING HANGER AND BRACING WIRES	AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
	HANGER AND BRACING WIRES SHALL NOT ATTACH TO EQUIPMENT.	OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DU
3.04	SLACK SAFETY WIRES SHALL BE CONSIDERED HANGE	AL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. R WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05	CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRA ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SC	UCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF TH CING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROT REW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE I
4. 4.01	ETC.). FASTENERS AND WELDING SHEET METAL SCREWS SHALL COMPLY WITH ASTM CI5	13 AND ASME BI8.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL
	THREE EXPOSED THREADS. EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE M	ANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND TEST LOAD FOR
	-	DICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER.] ORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLE
	END OF THE FASTENER IS DRIVEN THROUGH THE STEEL POWER-ACTUATED FASTENERS IN CONCRETE OR MASC	MEMBER
4.07	WELDING SHALL BE IN ACCORDANCE WITH AWS DI.3 US	ONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING BING EGOXX SERIES ELECTRODES.
5. 5.01 5.02	TESTING ALL FIELD TESTING MUST BE PERFORMED IN THE PRES POST-INSTALLED ANCHORS IN CONCRETE USED TO SUB	ENCE OF THE PROJECT INSPECTOR. PPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. F
	FASTENERS IN CONCRETE SHALL BE FIELD TESTED FO ACCORDANCE WITH CBC SECTION 1910A.5.	R 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCR
5.05 6.	SECTION 1910A.5.	TACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT I
6.01	THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCI	THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HO REWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER A TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE
0.02	COMPLETELY SURROUND THE SUPPORTING CEILING RUN DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE S	INER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROT SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABO OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT
6.03		UNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE
6.04	SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SA	LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE FETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNER FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLAC
6.05	CORNER. ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS	SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 G
	OTHER APPROVED HANGERS, INCLUDING THEIR ATTACH	5 TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAU IMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR
7. 7.01		ACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE P EANS. SCREMS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO
7.02	REQUIRED AT EACH COMPONENT. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICE ATTACHED FROM THE TERMINAL OR SERVICE TO THE	IS WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUG STRUCTURE ABOVE.
7.03	•	D AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BU TY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SEI
7.04	FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED	O AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHA THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL
8. 8.01	OTHER DEVICES WITHIN THE CEILING	STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL E
		POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE
	8	
		TEACHER'S
	<u>(E) suppi</u>	
		<u>(E) WORK ROOM</u>
\frown		
		ILING JOIST PLAN
	PLAN NORTH	ILING JUIGI FLAINGCALE : 1/4" = 1



DE ¾" CLEARANCE BETWEEN

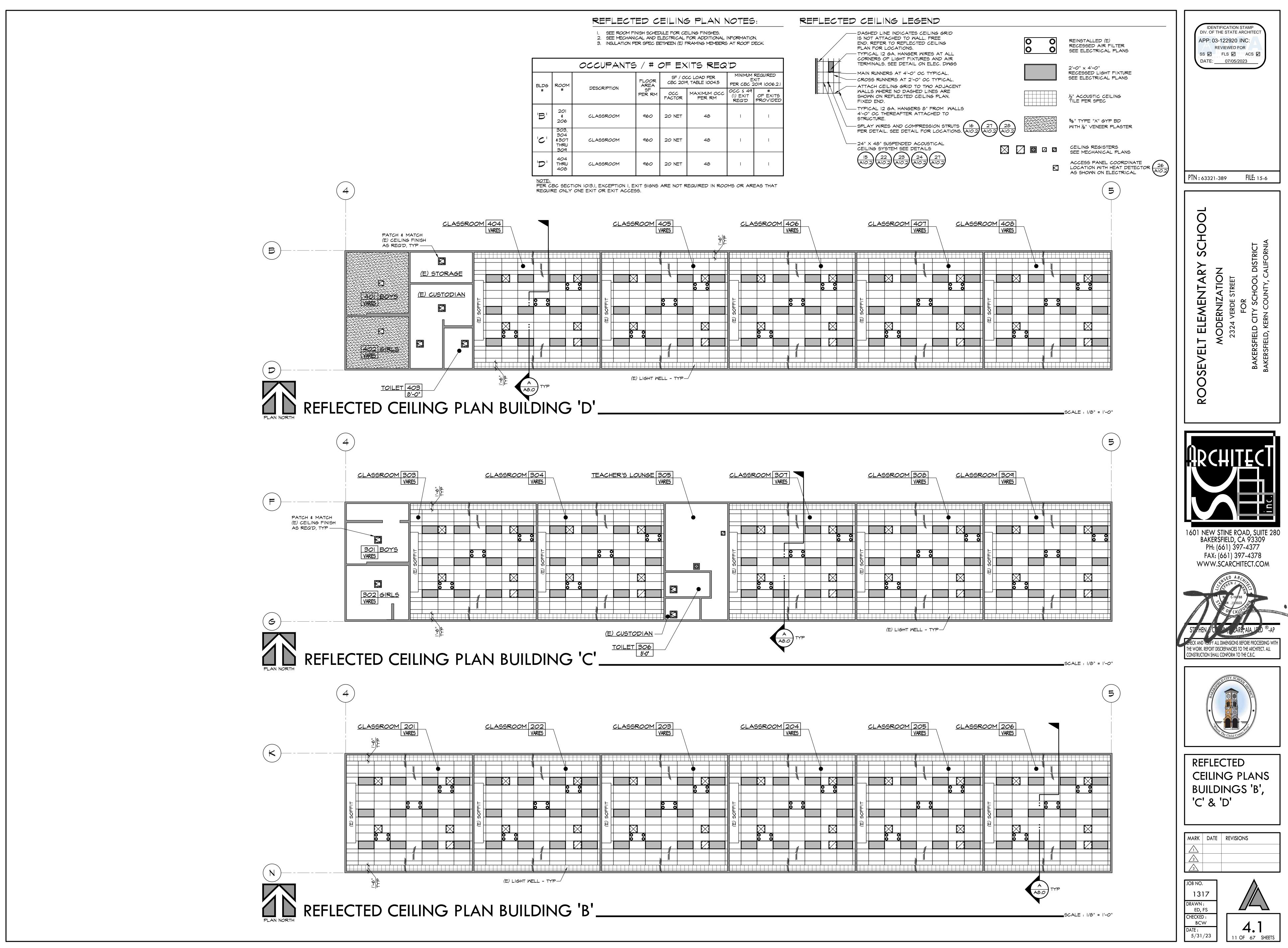
PANEL TYPES, PROVIDE 3/4"

ING GRID RUNNERS/MEMBERS

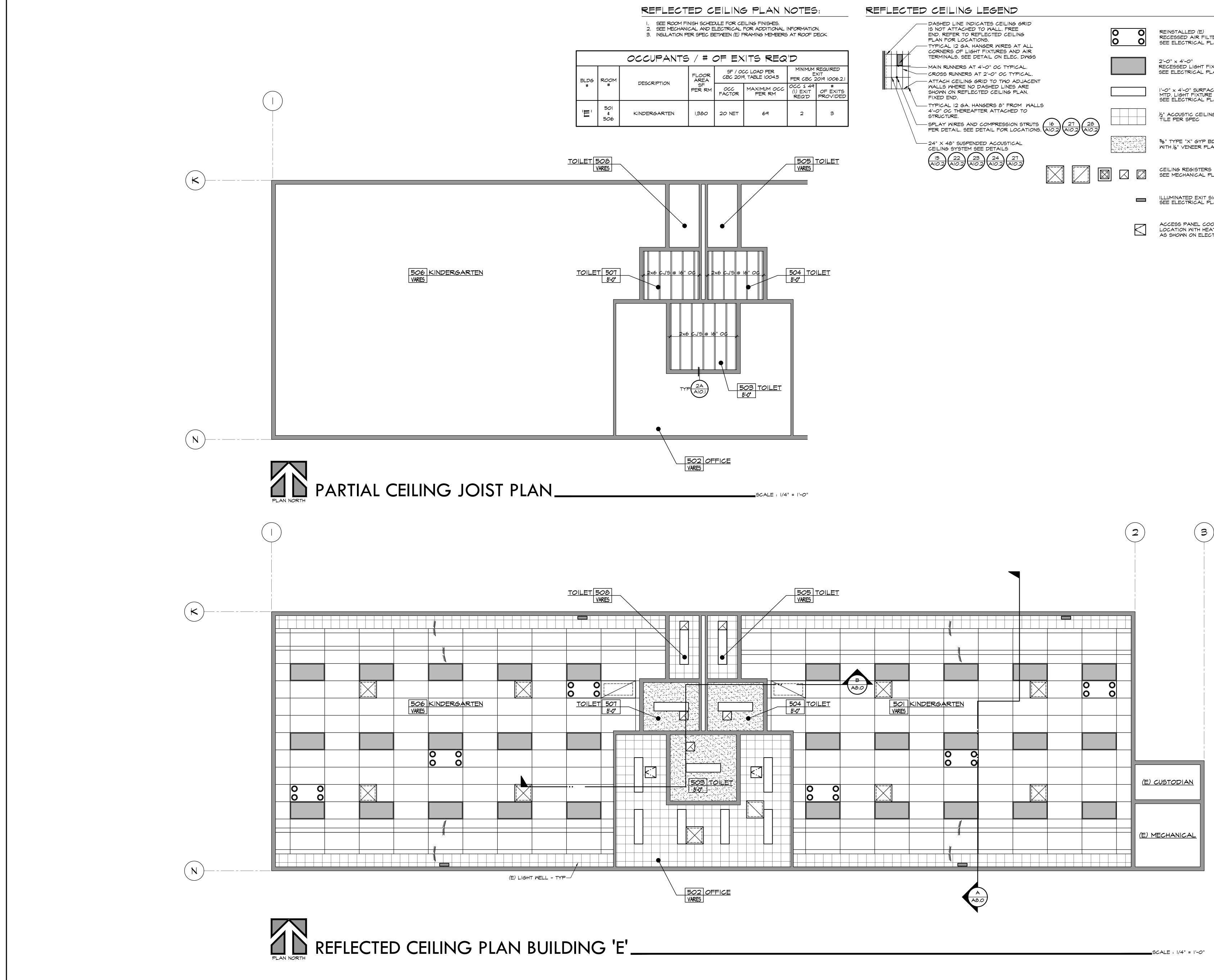
ASTM A653, OR OTHER

TEEL STRUCTURAL MEMBERS, AUGE) AND HEAVIER SHALL

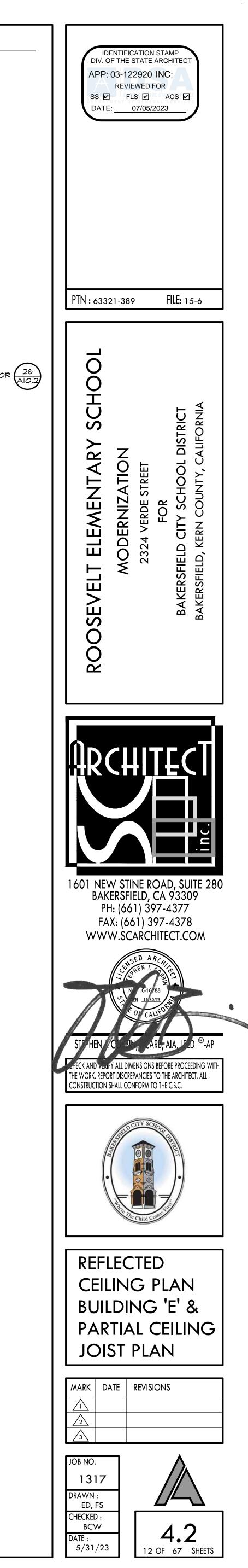
AUGE (0.106" DIAMETER) WITH



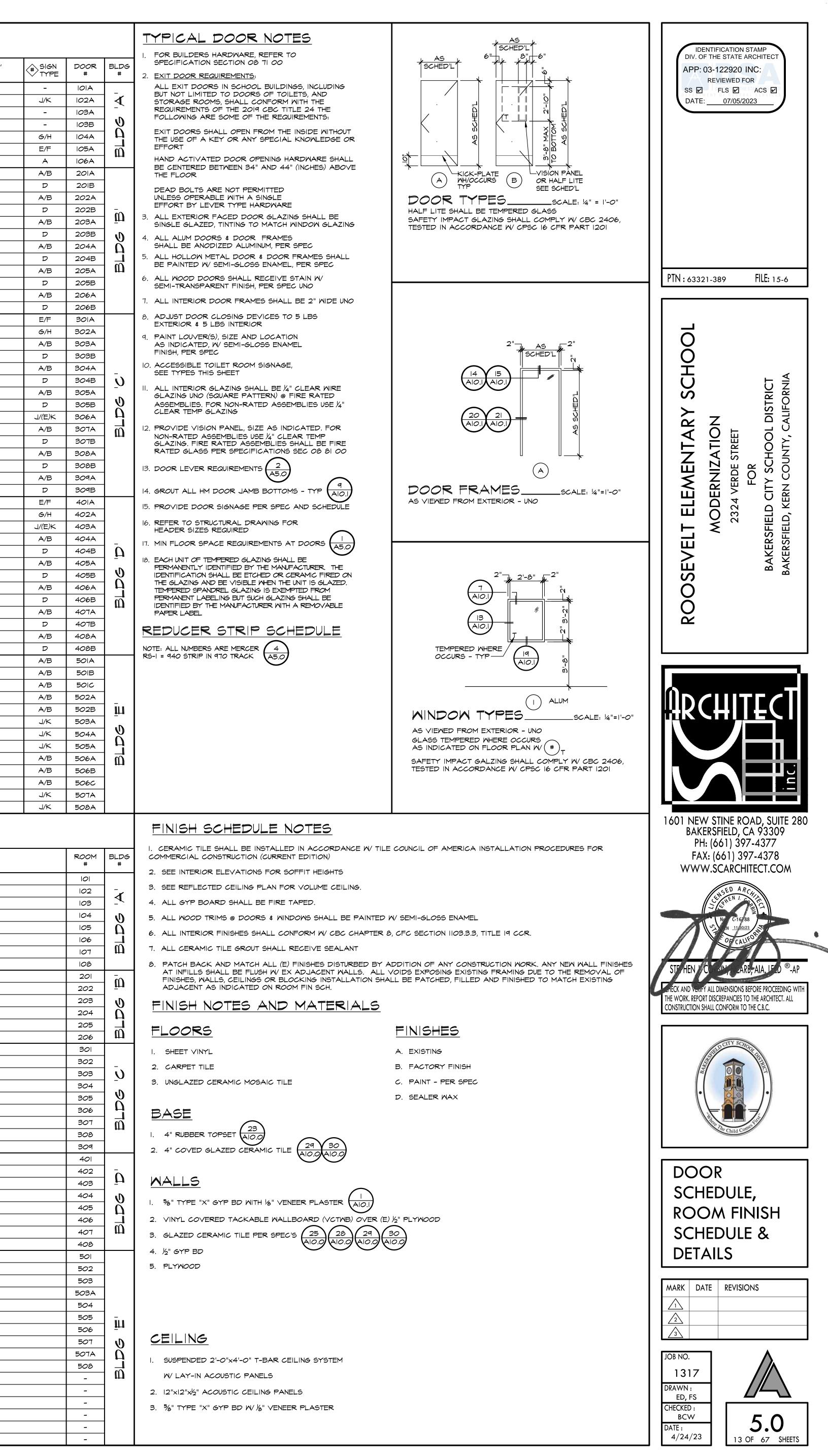
							_		
	OCCUPANTS / # OF EXITS REQ'D								
BLDG	ROOM		FL <i>OO</i> R AREA	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM R EX PER CBC 20			
# #	#	DESCRIPTION	SF PER RM	OCC FACTOR	MAXIMUM OCC PER RM	OCC 5 49 (I) EXIT REQ'D	f		
'n	201 \$ 206	CLASSROOM	960	20 NET	48	I			
'C'	303, 304 \$307 THRU 309	CLASSROOM	960	20 NET	48	I			
'D'	404 THRU 408	CLASSROOM	960	20 NET	48	I			

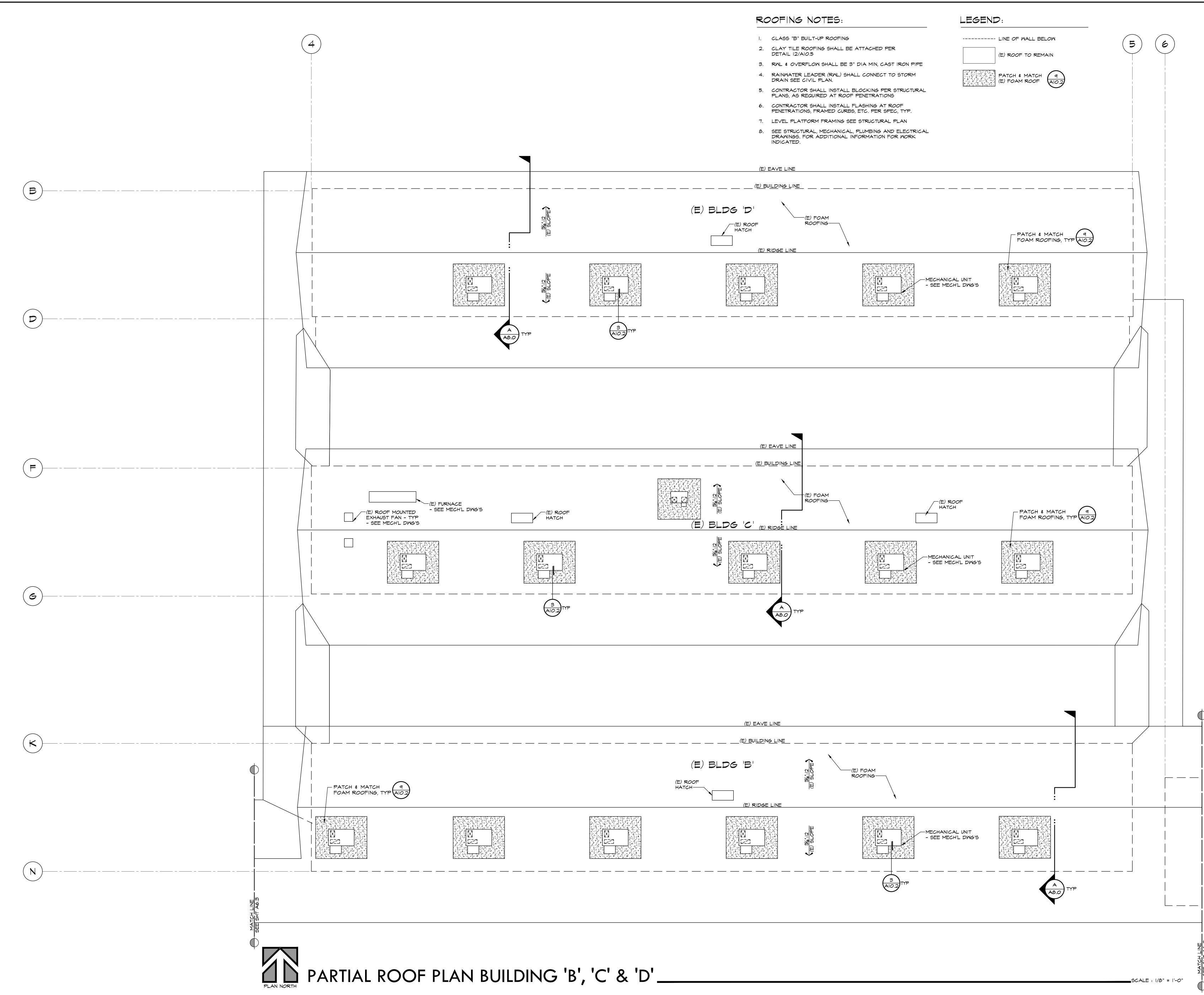


REFLECT	ED CEILING LEGEND			
	DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL. FREE END. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS. TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR		0 0 0 0	REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
	TERMINALS. SEE DETAIL ON ELEC. DWGS MAIN RUNNERS AT 4'-O" OC TYPICAL. CROSS RUNNERS AT 2'-O" OC TYPICAL.			2'-0" x 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
	ATTACH CEILING GRID TO TWO ADJACEI WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN. FIXED END. TYPICAL 12 GA. HANGERS 8" FROM WAL			I'-O" x 4'-O" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS
	4'-O" OC THEREAFTER ATTACHED TO STRUCTURE. SPLAY WIRES AND COMPRESSION STRUT PER DETAIL. SEE DETAIL FOR LOCATION	5 (16) (27) (28)		½" ACOUSTIC CEILING TILE PER SPEC
	$24" \times 48" \text{ SUSPENDED ACOUSTICAL}$ CEILING SYSTEM SEE DETAILS (15) (22) (23) (24) (27)			珍" TYPE "X" GYP BD WITH %" VENEER PLASTER
	A10.2 A10.2 A10.2 A10.2 A10.2			CEILING REGISTERS SEE MECHANICAL PLANS
				ILLUMINATED EXIT SIGN SEE ELECTRICAL PLANS
			\leq	ACCESS PANEL COORDINATE LOCATION WITH HEAT DETECTOR AS SHOWN ON ELECTRICAL

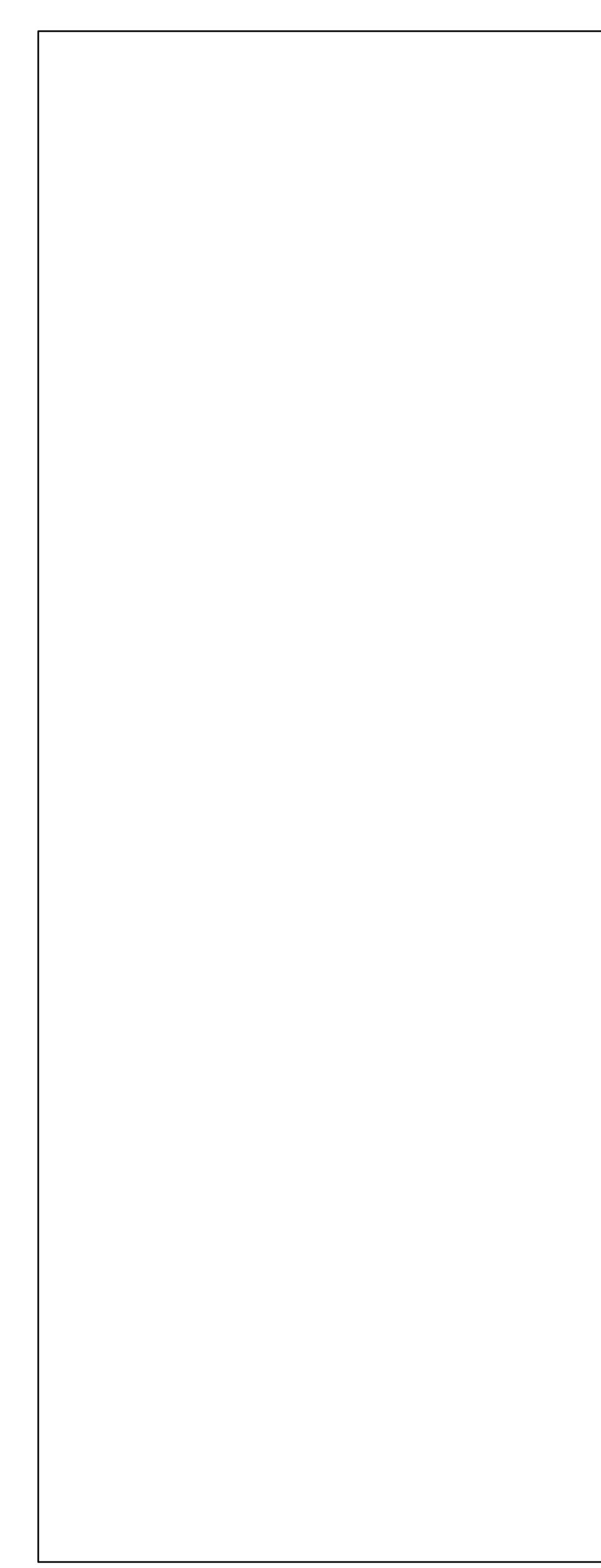


<u>↓</u>										DC	$\overline{)0}$	R S	CHED	JLE	
Ч Ч	BLDG	DOOR		DOOR		LOUVER	FR			PANIC	1		DETAIL		SEE TYP DOOR NOTE #'S 1,2,3,4,5,6,7,8,
	#	# 101A	TYPE -	SIZE (EACH LEAF) (E) 3'-0" X 7'-0"	MAT'L	SIZE	TYPE		RATING	HDWR		L/JAMB		B THRESHOLD/R	REMARKS 11,13,14,17,18, & 19. ADDITIONAL REQ'S ARE FOR ALL DOORS SCHEDULED.
0 7 7 V WITH BOTH CLOSER		102A	A	3'-0" × 7'-0"	MD	-	A	НМ	-	-	05	20/AIO.I	14/AIO.I 20/AIC	0.1 4/A5.0	-
MIN 1 AND LATCH	Ø	103A 103B	-	(E) 3'-0" X 7'-0" (E) 3'-0" X 7'-0"	-	-	-	-	-	-	-		 	-	- -
		104A 105A	A	3'-0" × 7'-0" 3'-0" × 7'-0"		-	A	HM HM	20 MIN. 20 MIN.	-	06 06	20/AIO.I 20/AIO.I	14/AIO.I 20/AIC		
1'-6" MIN @ INTR 2'-0" MIN @ EXTR		106A	A	3'-0" X 7'-0" 3'-6" X 7'-0"	MD HM	-	A	НМ	20 MIN.	-	08	20/AIO.I	14/AIO.I 20/AIC	0.1 4/A5.0	-
		201A 201B	-	(E) 3'-6" X 7'-0"	-	-	-	HM -	-	-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO	-	- -
Z Z Z Z Z Z MAX REQUIRED FLOOR SPACE	-	202A 202B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -		-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO 	9.1 3/A5.0 -	- -
	Ū.	203A 203B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -	-	-	<i>0</i> 3	21/AIO.I	15/AIO.I 2I/AIO	9.1 3/A5.0	-
		204A	A	3'-6" × 7'-0"	HM	-	A	НМ	-	-	03	21/AIO.I	15/AIO.I 2I/AIO	9.1 3/A5.0	
		204B 205A	- A	(E) 3'-6" X 7'-0" 3'-6" X 7'-0"	- HM	-	- A	- HM	-	-	- 03	- 21/AIO.I	 15/AIO.I 2I/AIO	- 9.1 3/A5.0	-
REQ'D FLOOR CLEARANCES SCALE: 1/-0"		205B 206A	- A	(E) 3'-6" × 7'-0" 3'-6" × 7'-0"	- HM	-	- A	- HM	-	-	- 03	- 21/AIO.I	 15/AIO.I 2I/AIO	- 9.1 3/A5.0	- -
		206B 301A	-	(E) 3'-6" X 7'-0" (E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-		-	-
PER SCHEDULE DOOR PER SCHEDULE		302A	-	(E) 3'-0" × 7'-0"	-	-	-	-	-	-	-	-		-	-
PANIC HARDWARE OR LEVER TYPE DOOR HANDLE, PER PLAN TYP		303A 303B	- -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	-	HM -	-	-	<i>0</i> 3 -	-	15/AIO.I 2I/AIO	9.1 3/A5.0 -	- -
	Ū	304A 304B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -		-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO 	9.1 3/A5.0 -	- -
	- V	305A 305B	-	(E) 3'-6" X 7'-0" (E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-		-	-
		306A	-	(E) 3'-0" × 7'-0"	- HM	-	-	-	-	-	-	-		-	(E) SIGN J TO BE REPLACED. (E) SIGN K TO REMAIN
		307A 307B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"		-	- -	HM -	-	-	<i>0</i> 3 -	-		-	-
		308A 308B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -	-	-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO	9.1 3/A5.0 -	-
		309A 309B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -	-	-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO	e.l 3/A5.0 -	-
LEVER TYPE DOOR HANDLE - TYP		401A	A	3'-0" × 7'-0"	HM	-	A	НМ	-	-	- 70		15/AIO.I 21/AIO	9.1 3/A5.0	-
TITLE 19 SEC 18. 14-3 (F) LEVERS		402A 403A	A -	3'-0" × 7'-0" (E) 3'-0" × 7'-0"	HM -	-	-	HM -	-	-	- 07	-	15/AIO.I 2I/AIO	-	- (E) SIGN J TO BE REPLACED. (E) SIGN K TO REMAIN
THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN $\frac{1}{2}$ " OF THE DOOR TO PREVENT CATCHING ON CLOTHING OF PERSONS DURING EGRESS.	Ū	404A 404B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -	-	-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO	9.1 3/A5.0 -	- -
		405A 405B	A -	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A -	HM -		-	<i>0</i> 3 -	21/AIO.I -	15/AIO.I 2I/AIO	e.l 3/A5.0	- -
2 DOOR/GATE LEVER SCALE: 3" = 1'-0"		406A 406B	A	3'-6" × 7'-0" (E) 3'-6" × 7'-0"	HM -	-	A	НМ	-	-	<i>0</i> 3	21/AIO.I	15/AIO.I 2I/AIO		-
	m	407A	- A	3'-6" × 7'-0"	HM	-	- A	- HM	-	-			15/AIO.I 2I/AIO	- 9.1 3/A5.0	- -
		407B 408A	- A	(E) 3'-6" × 7'-0" 3'-6" × 7'-0"	- HM	-	- A	- HM	-	-	- 03	- 21/AIO.I	 15/AIO.I 2I/AIO	- 9.1 3/A5.0	- -
DOOR - SEE		408B 501A	- A	(E) 3'-6" X 7'-0" 3'-6" X 7'-0"	- HM	-	- A	- НМ	-	- PH	- 01	- 21/AIO.I	 15/AIO.I 2I/AIO	- 9.1 3/A5.0	- -
	Ī	501B 501C	A	3'-6" × 7'-0" 3'-6" × 7'-0"	HM HM	-	A	HM HM	-	PH PH	01 01		15/AIO.I 21/AIO		-
		502A	A	3'-0" × 7'-0"	MD	-	A	НМ	-	-	04	20/AIO.I	14/AIO.I 20/AIC	0.1 4/A5.0	-
		502B 503A	A	3'-0" X 7'-0" 3'-0" X 7'-0"	ND ND	-	A	HM HM	-	-	05	20/AIO.I	14/AIO.I 20/AIC	0.1 4/A5.0	-
		504A 505A	A A	3'-0" X 7'-0" 3'-0" X 7'-0"		-	A	HM HM	-	-	_		14/AIO.I 20/AIC 14/AIO.I 20/AIC		- -
		506A 506B	A A	3'-6" × 7'-0" 3'-6" × 7'-0"	HM HM	-	A A	HM HM		PH PH	01 01		15/AIO.I 21/AIO		- -
NATION GUARD PRODUCTS # 613		506C 507A	A A	3'-6" × 7'-0" 3'-0" × 7'-0"	HM MD	-	A	HM HM	-	РН -	01 02		15/AIO.I 21/AIO		- -
		508A	A	3'-0" × 7'-0"	ND	-	A	HM	-	-			14/AIO.I 20/AIC		-
		1	I									NIS	H SCH		<u>_E</u>
3 THRESHOLD SCALE: 1"= 1'-0"	BLDG #	#		SCRIPTION		OR BA		NORTH	EAST		OUTH	WEST		HEIGHT	REMARKS
	 ⊳	101 102	HEALTI TOILET	-	IA/II 3B		/IB :B	IC 3B	4C 3B		C/4C 3B	1C/4C 3B	1B 3C	9'-0" 8'-0"	-
		103 104	TEACH: TOILET		IA 3A/3	IА/ В 2А/		- 3A/3B	- 3B		IC А/3В	-	IB IA	9'-0" 8'-0"	-
MERCER MODEL # 940 RS, TYP	Ď	105 106	TOILET		3A/3 A/II		/2B B	3A/3B IC	3B IC	3,	A/3B -	- IC	IA 3C	8'-0" 8'-0"	-
	m	107 108	SUPPLI LIBRAF		-		-	-	-		-	-	IB IB	9'-0" '-0"	
	Ē	201 202	CLASS CLASS	ROOM	2A/2 2A/2			2A/2B 2A/2B	-		2A 2A	-	IB IB	VARIES	- -
A TILE PER SPEC MERCER MODEL # 970 TRACK	ð	202 203 204	CLASS CLASS	ROOM	2A/2 2A/2 2A/2	B IA/	/IB	2A/2B 2A/2B	-		2A 2A 2A	-	IB IB	VARIES	-
X Y S MERCER MODEL # 940 RS, TYP - SEE SCHEDULE		205	CLASS	ROOM	2A/2	B IA/	/IB	2A/2B	-		2A	-	IB	VARIES	-
2 MAX	****	206 301	CLASS BOYS		2A/2		/IB -	2A/2B -	-		2A -	-	IB -	VARIES	-
	\bar{u}	302 303	GIRLS CLASS		- 2A/2		- /IB	- 2A/2B	-		- 2A	-	- IB	VARIES VARIES	- -
B CARPET PER SPEC MERCER MODEL # 970 TRACK		304 305	CLASS TEACH	ROOM ERS LOUNGE	2A/2 2A/2			2A/2B 5C	-		2A -	-	IB -	VARIES VARIES	
		306 307	TOILET CLASS		- 2A/2	-	-	- 2A/2B	-		- 2A	-	- IB	8'-0" VARIES	- -
	l m	308 309	CLASS CLASS	ROOM	2A/2 2A/2	B IA/	/IB	2A/2B 2A/2B	-		2A 2A	-	IB IB	VARIES	-
4 REDUCER STRIP SCALE: 6"= 1'-0"		401	BOYS		ЗВ	21	B	3B	ЗB		3B	3B	30	VARIES	-
	Ū	402	GIRLS TOILET	-	3B -	-	·B	3B -	3B -		3B -	3B -	30	VARIES 8'-0"	
	0 0	404	CLASS CLASS	ROOM	2A/2 2A/2	B IA/	/IB	2A/2B 2A/2B	-		2A 2A	-	IB IB	VARIES	-
		406 407	CLASS CLASS		2A/2 2A/2	B IA/	/IB /IB	2A/2B 2A/2B	-		2A 2A	-	IB IB	VARIES VARIES	- -
		408 501	CLASS KINDER	ROOM RGARTEN	2A/2 2A/2		/IB /IB	2A/2B 2A	-		2A 2A	-	IB IB	VARIES VARIES	-
		502 503	OFFICE TOILET		2B 3B		B B	IC 3B	IC 3B		IС 3В	IC 3B	2B 3C	VARIES 8'-0"	- -
		504 505	TOILET TOILET		3B 3B		B	3B 3B	3B 3B		3B 3B	3B 3B	3C 2B	8'-0" VARIES	
	Ī	505A	MASH		2B 2A/2	IE	в	2A 2A 2A	-		IC 2A	IC/3B -	IB IB	VARIES	- -
	0	507 508	TOILET	-	3B 3B	21	BB	3B 3B	3B 3B		3B 3B	3B 3B	3C 2B	8'-0" VARIES	- -
		508A -	WASH		2B	IE	в -	2A -	IC/3E	3	IC -	-	IB -	VARIES -	- -
		-	- - -		-		-	- - -	-		-	-	-	- - -	- - -
5 NOT USED SCALE:	{	-	-		-		-	-	-		-	-	-	-	- -
		-	-		-		-	-	-		-	-	-	-	-

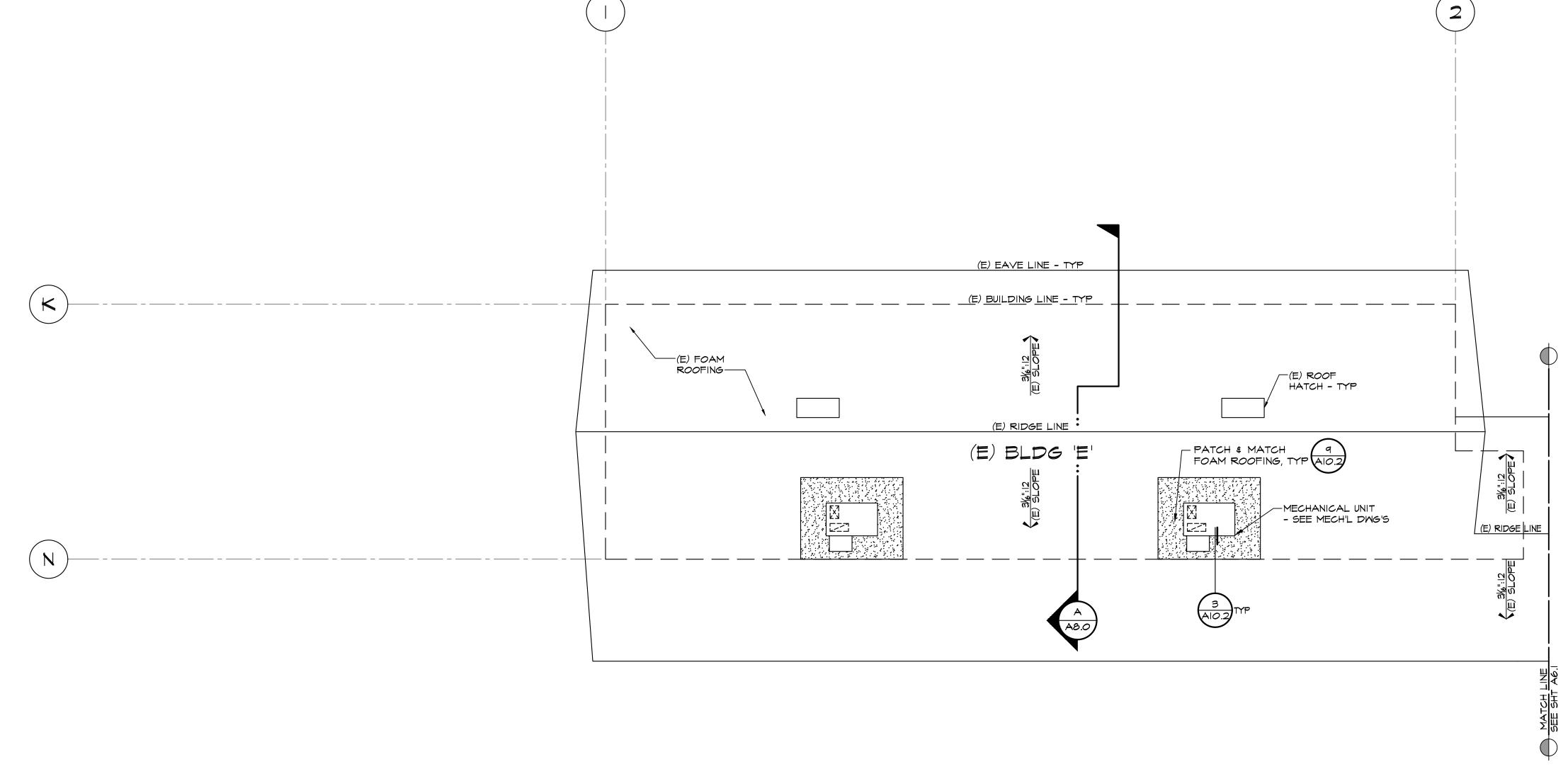












ROOFING NOTES:

- I. CLASS "B" BUILT-UP ROOFING
- 2. CLAY TILE ROOFING SHALL BE ATTACHED PER DETAIL 12/AIO.5
- 3. RWL & OVERFLOW SHALL BE 3" DIA MIN, CAST IRON PIPE
- 4. RAINWATER LEADER (RWL) SHALL CONNECT TO STORM DRAIN SEE CIVIL PLAN.
- 5. CONTRACTOR SHALL INSTALL BLOCKING PER STRUCTURAL PLANS, AS REQUIRED AT ROOF PENETRATIONS
- 6. CONTRACTOR SHALL INSTALL FLASHING AT ROOF
- PENETRATIONS, FRAMED CURBS, ETC. PER SPEC, TYP. 7. LEVEL PLATFORM FRAMING SEE STRUCTURAL PLAN
- 8. SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL INFORMATION FOR WORK INDICATED.

LEGEND:

----- LINE OF WALL BELOW

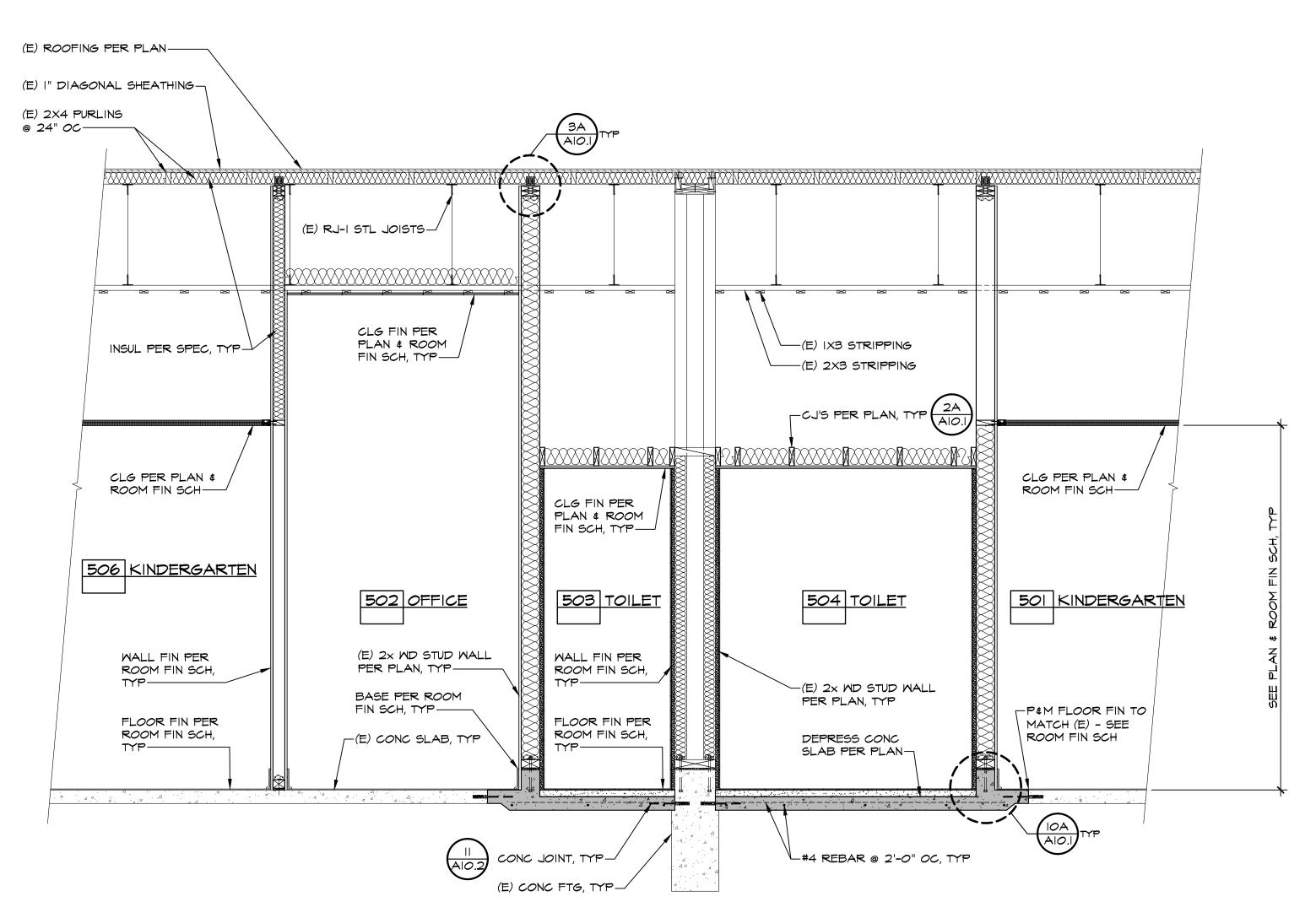
(E) ROOF TO REMAIN

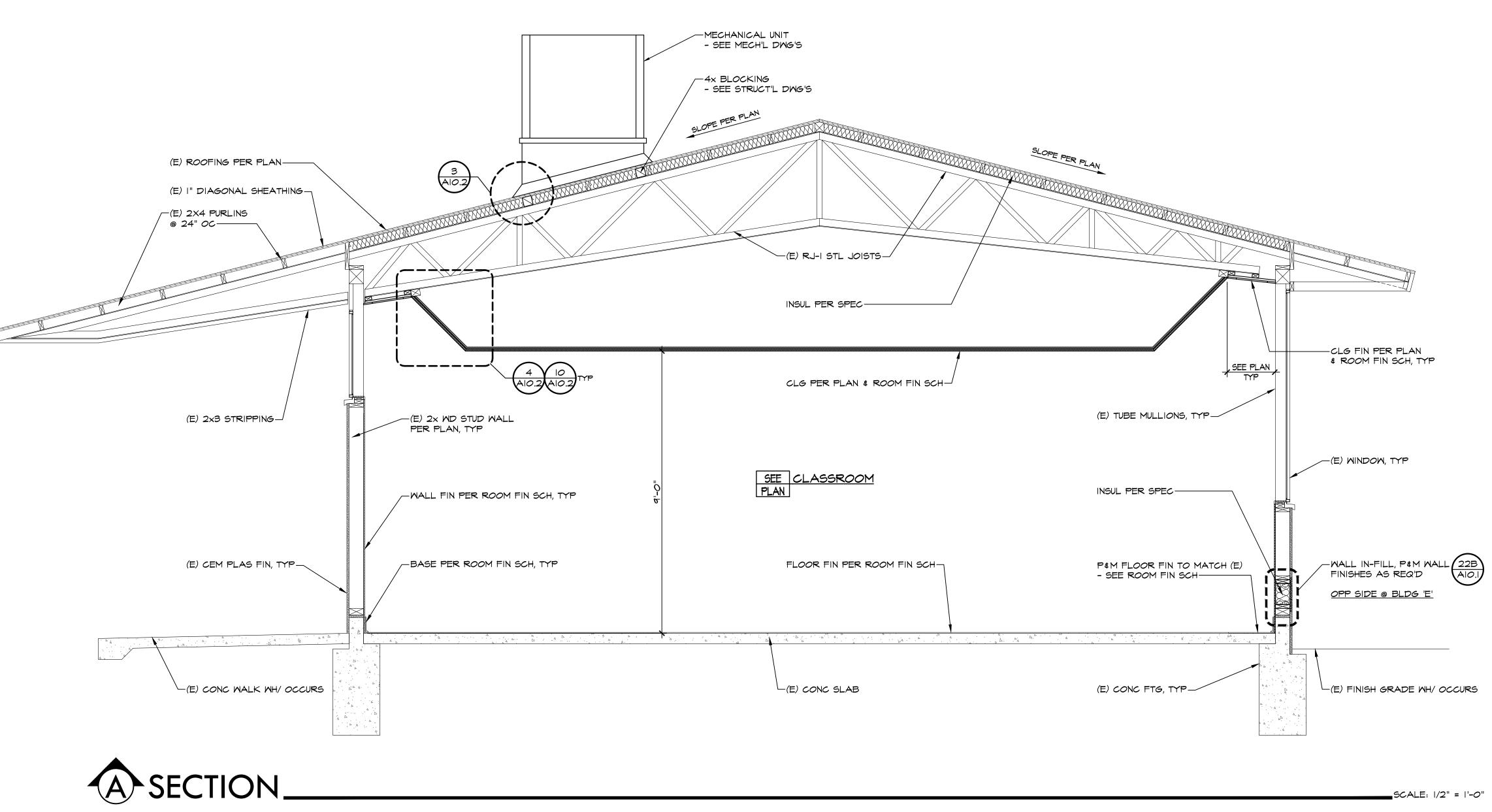


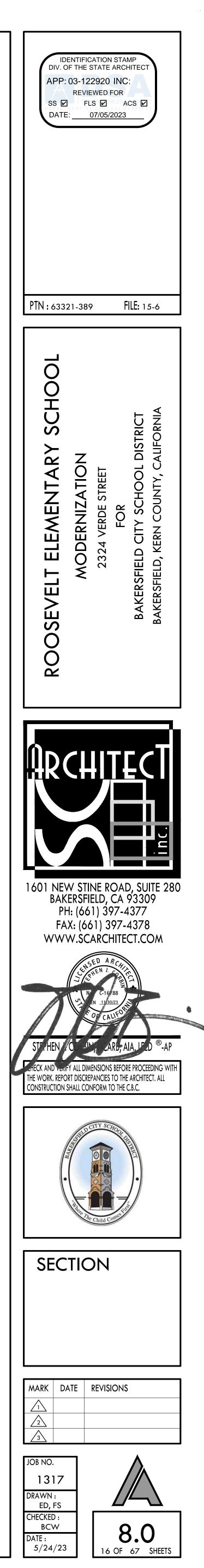




B PARTIAL SECTION_

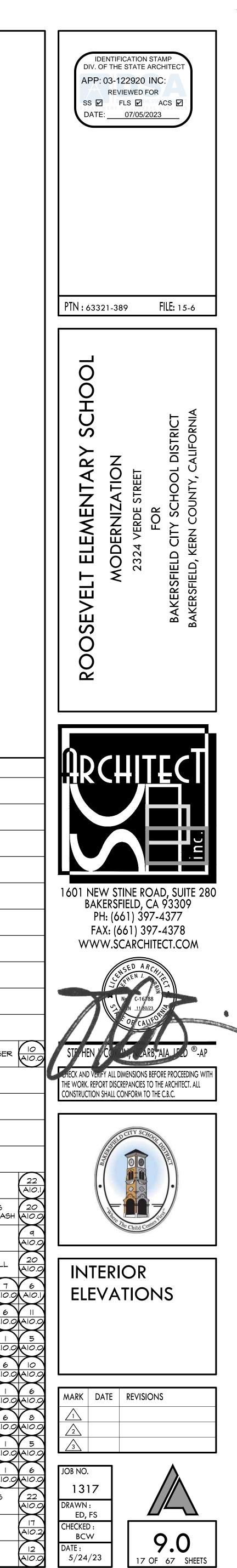


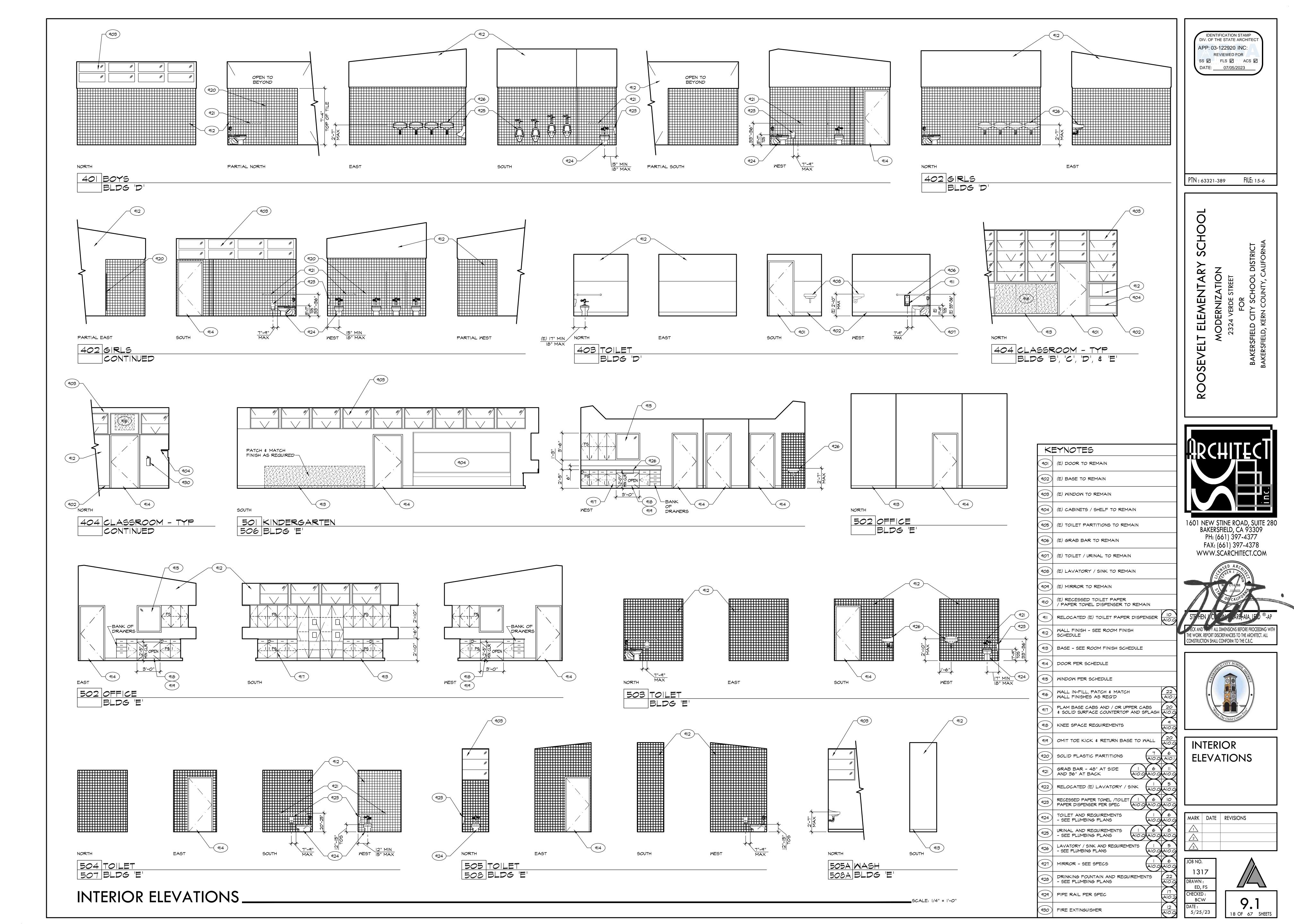


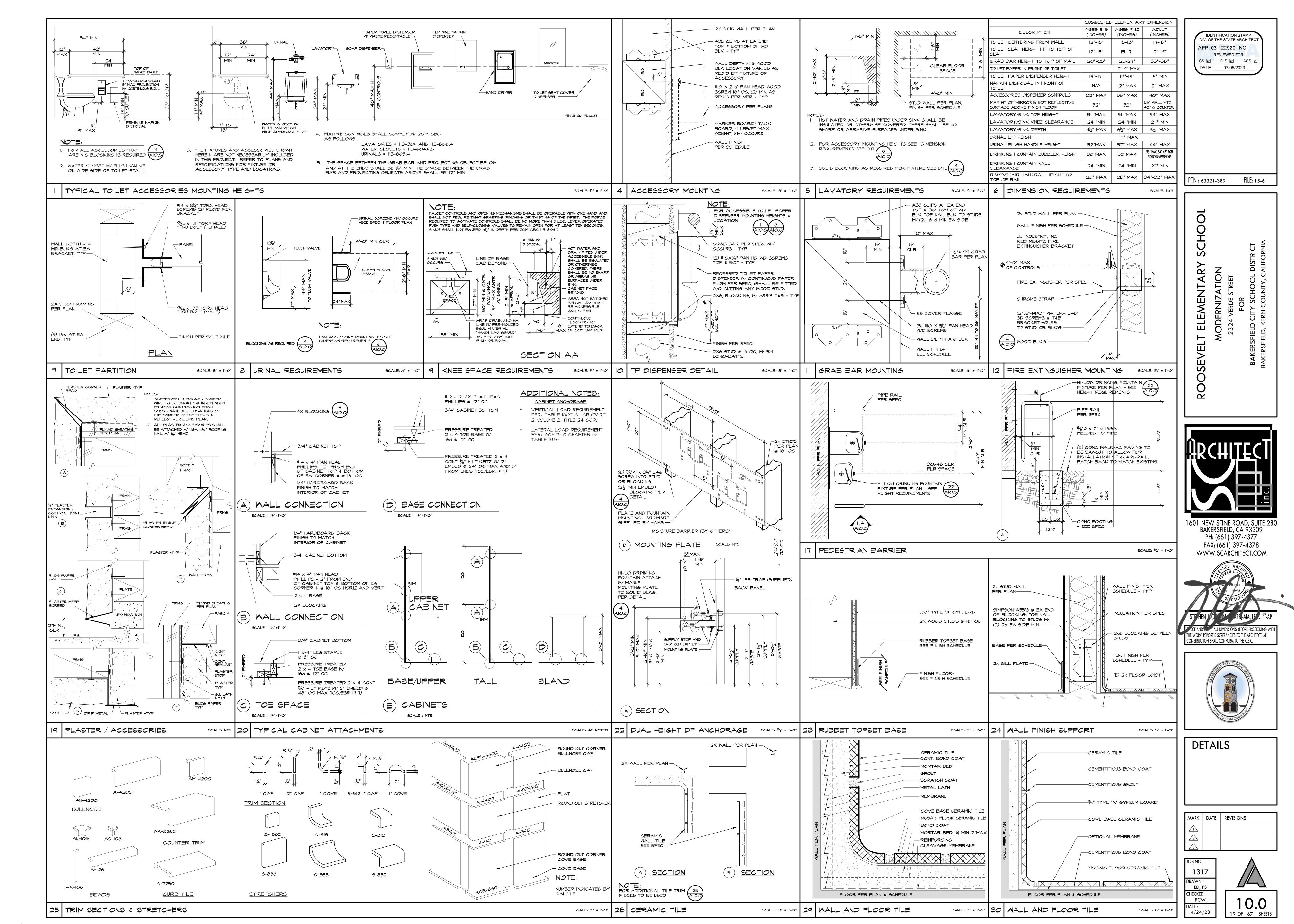


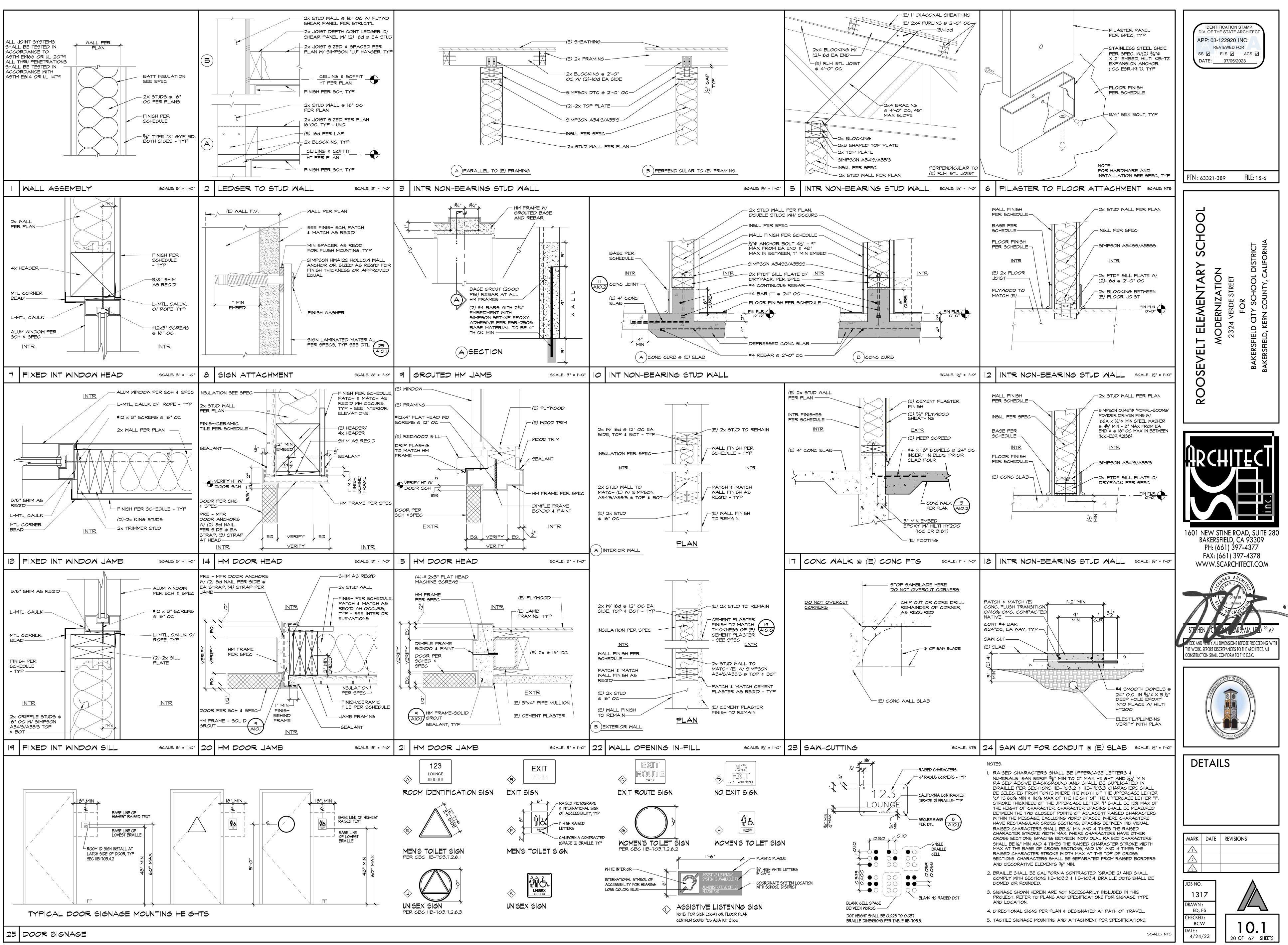


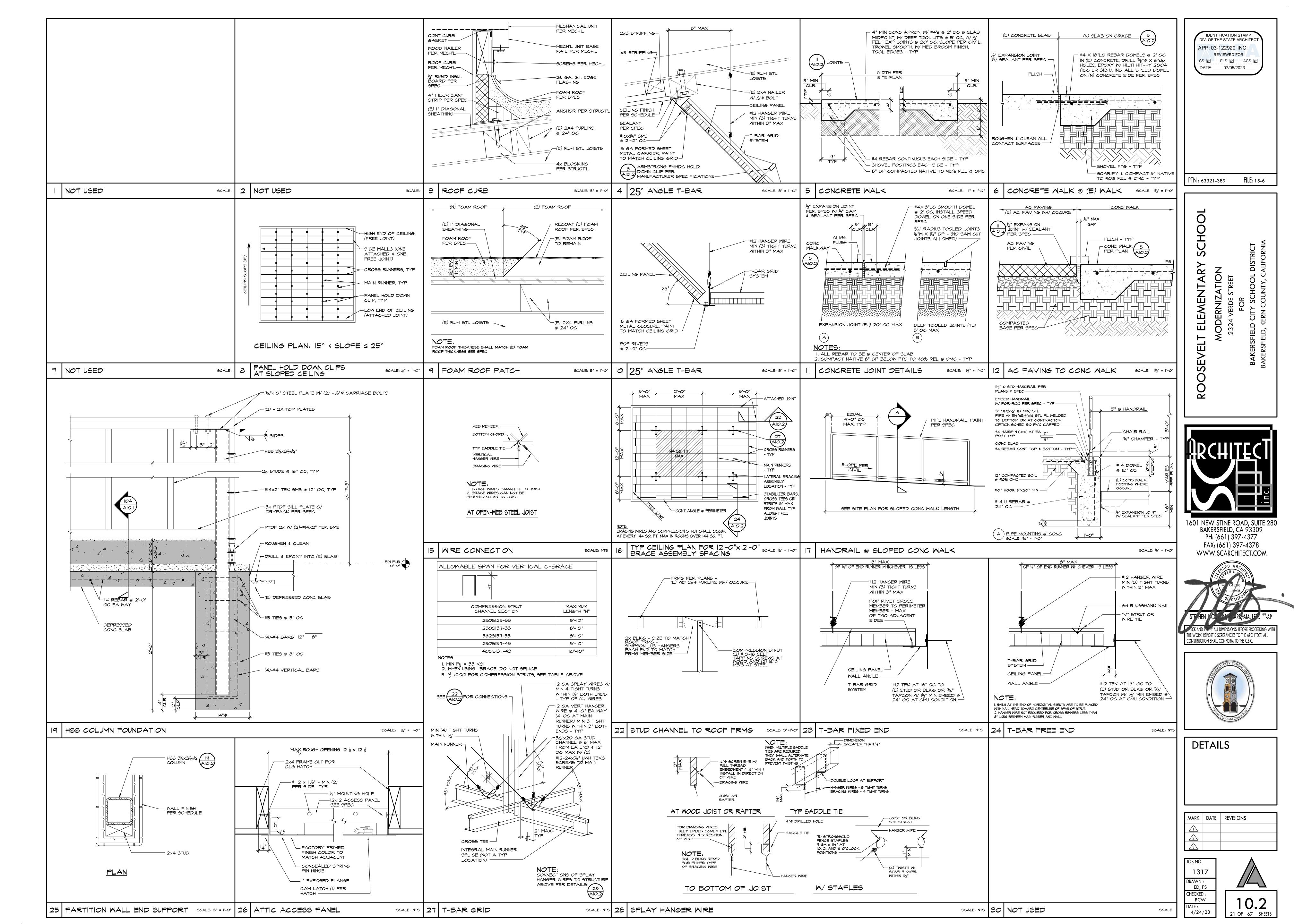
(904)	(E) CABINETS / SHELF TO REMAIN	
905	(E) TOILET PARTITIONS TO REMAIN	
906	(E) GRAB BAR TO REMAIN	
907	(E) TOILET / URINAL TO REMAIN	
908	(E) LAVATORY / SINK TO REMAIN	
909	(E) MIRROR TO REMAIN	
910	(E) RECESSED TOILET PAPER / PAPER TOWEL DISPENSER TO REM	
٩	RELOCATED (E) TOILET PAPER DISP	ENSER
912	WALL FINISH - SEE ROOM FINISH SCHEDULE	
913	BASE - SEE ROOM FINISH SCHEDULE	
914	DOOR PER SCHEDULE	
915	WINDOW PER SCHEDULE	
916	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	
(7 7)	PLAM BASE CABS AND / OR UPPER C & SOLID SURFACE COUNTERTOP AND S	
918	KNEE SPACE REQUIREMENTS	
۹I۹	OMIT TOE KICK & RETURN BASE TO	MALL
920	SOLID PLASTIC PARTITIONS	AI0.0
921	GRAB BAR - 48" AT SIDE AND 36" AT BACK	6 AIO.C
922	RELOCATED (E) LAVATORY / SINK	
(9 23)	RECESSED PAPER TOWEL /TOILET	<u>Y 6</u>
924	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	
925	URINAL AND REQUIREMENTS	<u> </u>
926	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS	
927	MIRROR - SEE SPECS	
928	DRINKING FOUNTAIN AND REQUIREME - SEE PLUMBING PLANS	INTS
(9 29	PIPE RAIL PER SPEC	
(930)		











INSPECTION / TESTING

	ANCHOR BOLT	JST	JOIST
ABV ADDL	ABOVE ADDITIONAL	JT	JOINT
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 LONG LEG VERTICAL
BF	BRACE FRAME	LLV	LONGITUDINAL
BLDG BLK	BUILDING BLOCK	LT WT	
BLKG	BLOCKING	LVL LVL	LAMINATED VENEER (LUMBER) LEVEL (FLOOR)
BEL	BELOW		
BM BN	BEAM BOUNDARY NAILING	MAX MB	MAXIMUM MACHINE BOLT
B or BOT	BOTTOM	MECH	MECHANICAL
BRG BTWN	BEARING BETWEEN	MEZZ MFR	MEZZANINE MANUFACTURER
BU	BUILT-UP	MIN	MINIMUM
BUB	BACK-UP BAR	MISC MTL	MISCELLANEOUS METAL
CAMB(C)	CAMBER(ED)	MS	MIDDLE STRIP
CBC CG	CALIFORNIA BUILDING CODE CENTER OF GRAVITY	(N)	NEW
CIP	CAST IN PLACE	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	NO (#)	NUMBER
CJP	COMPLETE JOINT PENETRATION	NS NTS	NEAR SIDE NOT TO SCALE
CL(R)	CENTERLINE	NORM WT	
CLG CLR	CEILING CLEAR	OC	ON CENTER (NOT NECESSARY)
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL CONC	COLUMN CONCRETE	OF OH	
CONC	CONNECTION	0H 0-0	OPPOSITE HAND OUT TO OUT
CONT	CONTINUOUS	OPNG	OPENING
CS CRC	COLUMN STRIP COLD ROLLED CHANNEL	PARA	PARALLEL
CTR	CENTER(ED)	P/C	PRECAST
CTRSK C-C	COUNTERSINK CENTER TO CENTER	PERP PJP	PERPENDICULAR PARTIAL JOINT PENETRATION
00		PL (IP)	PLATE
d DBL	PENNEY(NAILS) DOUBLE	PLY	
DET	DETAIL	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
DF	DOUGLAS FIR	PT	PRESSURE TREATED
DIA(Q) DIAG	DIAMETER DIAGONAL	P/T	POSTTENSIONED(PRESTRESSED)
DIM	DIMENSION	RAD (R)	RADIUS
DN DO	DOWN DITTO (REPEAT)	REF REQ'D	REFERENCE 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
		SCHED SFRS SIM	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR
EBF EF EJ ELEC	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL	SCHED SFRS SIM SIMP	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON
EBF EF EJ	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT	SCHED SFRS SIM	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR
EBF EF EJ ELEC ELEV EMBED EN	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING	SCHED SFRS SIM SIMP SHT SHTG SLBB	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK
EBF EF EJ ELEC ELEV EMBED	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT	SCHED SFRS SIM SIMP SHT SHTG	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING
EBF EF EJ ELEC ELEV EMBED EN EQ EQUIP ES	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUIPMENT SIDE EACH	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE
EBF EF EJ ELEC ELEV EMBED EN EQ EQUIP ES EW	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS
EBF EF EJ ELEC ELEV EMBED EN EQ EQUIP ES	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUIPMENT SIDE EACH	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE
EBF EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E)	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION
EBF EF EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E) EXP	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC SSC STAGG SS	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE
EBF EJ EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E) EXP EXT EXT FIN FLR	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SPECS SP SQ SSC STAGG SS STD	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD
EBF EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E) EXP EXT EXT	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED)	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC SSC STAGG SS	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL
EBF EJ EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E) EXP EXT EXT FIN FLR FDN FLR FDN FLG FN	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC SPECS SP SQ SSC STAGG SS STAGG SS STD STIFF STL STRUC	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL
EBF EJ EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXP EXT FIN FLR FDN FLG FN FOB	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SPECS SP SQ SSC STAGG SS STD STIFF STL	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL
EBF EJ EJ ELEC ELEV EMBED EN EQ EQUIP ES EW EXIST(E) EXP EXT EXT FIN FLR FDN FLR FDN FLG FN	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC SPECS SP SQ SSC STAGG SS STAGG SS STD STIFF STL STRUC	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL
EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FN FOB FOC FOS	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF PLYWOOD FACE OF STUDS	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SSS STD STIFF STL STRUC SYMM T & B T & G	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE
EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FN FOB FOC FO PLY	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF CONCRETE FACE OF PLYWOOD	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STRUC SYMM T & B	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL
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EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FN FOB FOC FOS FMG FS	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF CONCRETE FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STIFF STL STRUC SYMM T & B T & B T & G TEMP THK	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH
EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FN FOB FOC FO PLY FOS FMG FS FT FTG	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STIFF STL STRUC SYMM T & B T & B T & C TEMP THK THRD THRU THRU TP T PLY	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH TOP OF PARAPET TOP OF PARAPET TOP OF PLYWOOD
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EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FN FOB FOC FO PLY FOS FMG FS FT FTG	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STRUC STRUC SYMM T & B T & B T & C TEMP THK THRD THRU THRU TP THRU TP T PLY TRANS TOC	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH TOP OF PARAPET TOP OF PARAPET TOP OF PLYWOOD TRANSVERSE TOP OF STEEL
EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLG FDN FLG FON FLG FON FLG FN FOB FOC FO PLY FOS FMG FS FT FTG GA GALV	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF CONCRETE FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING GAGE GALVANIZED GRADE BEAM	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SS STAGG SS STD STIFF STL STRUC STRUC SYMM T & B T & B T & B T & B T & C STRUC SYMM TEMP T HK THRD T HRU T HRD T HRD T HRD T HRU T SG	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH TOP OF PARAPET TOP OF PARAPET TOP OF PLYWOOD TRANSVERSE TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TAPERED STEEL GIRDER
EBF EJ ELEC ELEV EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLG FDN FLG FON FLG FON FCO FON FOG FOR FOC FONR FOS FMG FS FT FTG GA GALV GB GL	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF CONCRETE FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING GAGE GALVANIZED GRADE BEAM GRID LINE	SCHED SFRS SIM SIMP SHT SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STRUC STRUC SYMM T & B T & B T & C TEMP THK THRD THRU THRU TP THRU TP T PLY TRANS TOC	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH TOP OF PARAPET TOP OF PARAPET TOP OF PLYWOOD TRANSVERSE TOP OF STEEL
EBF EJ ELEC ELEV EMBED EQ EQUIP EQUIP EXIST(E) EXT FIN FLR FDN FLG FOB FOC FON FLG FN FOS FMG FS FT FTG GA GALV GB GL HCA HD	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF CONCRETE FACE OF PLYWOOD FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING GAGE GALVANIZED GRADE BEAM GRID LINE GLUE-LAMINATED BEAM	SCHED SFRS SIM SIMP SHT SHTG SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SS STD STIFF STL STRUC SS STD STIFF STL STRUC SYMM T & B T & B T & G T & B T & G T & B T & G T EMP T HK T HRD T HRU T HRD T HRU T PLY T PLY T PLY T PLY T RANS T OC T OS T SG T OW T YP	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THREADED THROUGH TOP OF PARAPET TOP OF PARAPET TOP OF PLYWOOD TRANSVERSE TOP OF STEEL TOP OF STEEL TOP OF STEEL TAPERED STEEL GIRDER TOP OF WALL TYPICAL
EBF EJ EJEC ELEC EMBED EQ EQUIP ES EW EXIST(E) EXT FIN FLR FDN FLG FON FLG FN FOB FOC FO PLY FOS FMG FS FMG FS GA GALV GB GL HCA HD HDR	ECCENTRIC BRACE FRAME EACH FACE EXPANSION JOINT ELECTRICAL ELEVATION/ELEVATOR EMBEDMENT EDGE NAILING EQUAL EQUIPMENT SIDE EACH EACH WAY EXISTING EXPANSION EXTERIOR FINISH(ED) FLOOR FOUNDATION FLANGE FIELD NAILING FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF BLOCK OR BRICK FACE OF STUDS FRAMING FAR SIDE FOOT FOOTING GAGE GALVANIZED GRADE BEAM GRID LINE GLUE-LAMINATED BEAM	SCHED SFRS SIM SIMP SHT SHTG SHTG SLBB SLV SMS SOG SPECS SP SQ SSC STAGG SSC STAGG SS STD STIFF STL STRUC SS STD STIFF STL STRUC SYMM T & B T & C SYMM STHF STL STRUC ST	SCHEDULE SEISMIC FORCE RESISTING SYSTEM SIMILAR SIMPSON SHEET SHEATHING SHORT LEB BACH-BACK SHORT LEB BACH-BACK SHORT LEB VERTICAL SHEET METAL SCREWS SLAB ON GRADE SPECIFICATIONS SPACE (S) SQUARE SINGLE SHEAR CONNECTION STAGGER(ED) STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TEMPORARY THICK(NESS) THREADED THROUGH TOP OF PARAPET TOP OF PLYWOOD TRANSVERSE TOP OF STEEL TOP OF STEEL TOP OF STEEL TAPERED STEEL GIRDER TOP OF WALL
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 AN INDEPE OWNER TO CALIFORNI INSPECTOR MATERIALS CODE. IF INITIAL ANY POR ADDITIONA CONTRACT PROVIDE O TEST AND BUILDING SPECIFICA SPECIAL IN OF A FABF AGENCY F
ANY POR ADDITIONA CONTRAC 3. PROVIDE (TEST AND BUILDING SPECIFICA 4. SPECIAL IN OF A FABF
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ENDENT TESTING AGENCY AND SPECIAL INSPECTORS SHALL BE RETAINED BY THE O PERFORM THE TESTS AND INSPECTION AS REQUIRED BY SECTION 1704 OF THE VIA BUILDING CODE. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE SPECIAL OR TO THE SITE OR FABRICATION SHOPS AND SHALL FURNISH SAMPLES OF S FOR TESTING AS REQUESTED BY THE TESTING AGENCY AND THE GOVERNING

TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT TION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, AL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE TOR'S EXPENSE

CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ITEMS NOTED IN "DSA-103: INSPECTIONS FORM", AS REQUIRED PER THE CHAPTER 17A OF THE CALIFORNIA CODE AND ALL APPLICABLE AMENDMENTS, UNLESS NOTED OTHERWISE IN TIONS.

NSPECTIONS MAY NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES RICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL OR GOVERNING HAVING JURISDICTION OVER THE PROJECT TO PERFORM SUCH WORK WITHOUT NSPECTION.

BY THE INSPECTOR OF MATTERS NOT SPECIFICALLY CONSTRUCTED PER THE D DRAWINGS DOES NOT MEAN THE FAILURE TO COMPLY WITH THE CONSTRUCTION ITS HAS BEEN ACCEPTED. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR TION.

ON AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER EVEN DAYS OF WHEN THE INSPECTION WAS MADE OR WHEN THE TESTING WAS

THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY INSPECTION OR TESTING WHICH DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GENERAL CONTINUED

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE OWNER'S 23. ALLOW SEVEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS OTHER THAN STRUCTURAL STEEL & REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. DESIGN-BUILD ITEMS AFTER RECEIPT BY THE STRUCTURAL ENGINEER. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING STRUCTURAL STEEL & DESIGN-BUILD ITEMS SHOP DRAWINGS. SHOP INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE DRAWINGS AND SUBMITTALS WILL BE REVIEWED A MAXIMUM OF TWO TIMES. PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE 24. THE LATERAL SYSTEM OF THE STRUCTURE IS DESIGNED WITH LATERAL RESTRAINT AT THE GROUND FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S FLOOR. STRUCTURAL FRAMES ARE NOT LATERALLY SELF SUPPORTING UNTIL THE ENTIRE DESIGN REPRESENTATIVE. LATERAL RESTRAINT FLOOR AND STRUCTURAL WALLS BELOW ARE IN PLACE. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. DRAWINGS SHALL NOT BE - 3 25. DO NOT SPLICE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET SCALED. OF DRAWINGS, DO NOT PLACE OPENINGS, POCKETS, ETC, IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF STRUCTURAL DRAWINGS. NOTIFY THE DETAILS IN SHEETS TITLED 'TYPICAL DETAILS', TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL STRUCTURAL ENGINEER IF DRAWINGS BY OTHERS REQUIRE MODIFICATIONS TO STRUCTURAL MEMBERS PARTS OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE. AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. THESE DETAILS ARE NOT SPECIFICALLY REFERENCED WHERE THEY OCCUR. 26. DESIGN LOADS: NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DEAD LOADS: CONSIST OF BUILDING SELF-WEIGHT PLUS SUPERIMPOSED DEAD LOADS. REFER TO DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS AND THESE GENERAL NOTES AND TYPICAL COMPLETE SET OF DRAWINGS FOR DETERMINING DEAD LOADS. DETAILS ARE IN CONFLICT WITH THE PROJECT SPECIFICATIONS THE MOST STRINGENT SHALL B. LIVE LOADS: APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR DESIGN LIVE LOAD REMARK WORK. ROOF REDUCIBLE 20 PSF SEISMIC DESIGN LOADS: C. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING: 6. SEISMIC IMPORTANCE FACTOR ID = 1.0 CALIFORNIA BUILDING CODE, 2019 EDITION **RISK CATEGORY** = ||| = 2.5 AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK. = 6 INCLUDING BUT NOT LIMITED TO CAL/OSHA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, AND THOSE SITE CLASS = D (DEFAULT) CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS = 0.752 SEISMIC DESIGN CATEGORY = D SPECIFICATIONS. CODES, AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS SHALL BE OF = 1 THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS SHALL COMPLY WITH ASTM REFERENCED STANDARDS LATEST EDITION. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR 8 TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: UNLESS NOTED OTHERWISE, LUMBER SHALL BE DOUGLAS FIR-LARCH, GRADE MARKED, WITH SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS. A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. 2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, LUMBER GRADES SHALL BE AS FOLLOWS: 10. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: HORIZONTAL FRAMING MEMBERS PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT BEAMS SELECT STRUCTURAL. SHOWN OR NOTED. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. JOISTS AND RAFTERS No 1 ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO ALL OTHER HORIZONTAL MEMBERS No 1 THE STRUCTURE. ANCHOR BOLTS FOR EQUIPMENT MOUNTS. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR AND SHALL COMPLY WITH THE LATEST EDITION SIZE, WEIGHT, AND LOCATION OF MACHINE AND EQUIPMENT BASES. 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 11. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL MEMBERS UNLESS FOR THICKNESS. ALL PLYWOOD SHEATHING SHALL BE BLOCKED AT UNSUPPORTED EDGES SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER OF RECORD WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE 4. NAILS SHALL BE COMMON WIRE NAILS AND SHALL CONFORM TO ASTM F1667. UNLESS NOTED STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. OTHERWISE ON THE PLANS, NAILING SHALL COMPLY AS A MINIMUM WITH NAILING AND FASTENING SCHEDULES PRESCRIBED BY THE GOVERNING BUILDING CODE. 12. 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 CONNECTOR REFERENCES. UNLESS NOTED OTHERWISE ARE FROM THE LATEST EDITION OF DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL "SIMPSON STRONG-TIE" CATALOG. APPROVED EQUALS SHALL HAVE MATCHING ICC-ES IMPACT THE WORK. RATINGS AND USED WITH PRIOR APPROVAL OF THE ARCHITECT OR STRUCTURE ENGINEER. 13. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE CONSTRUCTION DOCUMENTS WITH THE A. WHERE MORE THAN ONE TYPE OF FASTENER IN THE REFERENCE SERIES OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK. IS SCHEDULED FOR A JOIST OR RAFTER, THE CONTRACTOR SHALL SUPPLY THE FASTENER WITH THE GREATEST CAPACITY. 14. 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. WHERE THERE ARE A NUMBER OF NAILING ALTERNATIVES LISTED IN THE MANUFACTURER'S CATALOG FOR A PARTICULAR CONNECTOR. THE 15. ANY DEVIATION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO NAILING ALTERNATIVE PROVIDING THE HIGHEST LOAD CAPACITY SHALL BE THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL BEFORE PROCEEDING WITH THE WORK. USED UNLESS NOTED OTHERWISE. SUBSTITUTIONS OF PRODUCTS OR MATERIALS SPECIFIED ON THE CONSTRUCTION DOCUMENTS ARE NOT ALLOWED WITHOUT OWNER'S REPRESENTATIVE'S APPROVAL. C. ALL NAIL HOLES IN THE CONNECTOR SHALL BE FILLED WITH PROPER 16. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE NAILS UNLESS NOTED OTHERWISE ELSEWHERE. (INCLUDING TRIANGULAR METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, HOLES IN "HU" HANGERS. SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR CONSTRUCTION PERFORMED BY CONTRACTOR 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. 17. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER 7. FASTENERS AND HARDWARE EXPOSED TO WEATHER SHALL BE HOT DIPPED ZINC-COATED STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS GALVANIZED STEEL AND SHALL COMPLY WITH ASTM 153. 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 SCREWS AND LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.6.1. PREDRILLED SCREW OBSERVATION OF THE ABOVE NOTED ITEMS. HOLES SHALL BE 2/3 THE SCREW NOMINAL DIAMETER. MINIMUM SCREW YIELD STRENGTH SHALL BE AS FOLLOWS: 18. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. SCREW NOMINAL DIAMETER YIELD STRENGTH (F_{YB}) LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT SPECIFIED ON THIS SET OF 70.000 PSI DRAWINGS. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH OR WHERE OVERLOAD IS ANTICIPATED. 60.000 PSI 3% AND GREATER 45.000 PSI 19. 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. A. ALL BOLTS SHALL CONFORM TO ASTM A307, GRADE A. 20. CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH B. ALL ANCHOR RODS (ANCHOR BOLTS) SHALL CONFORM TO ASTM F1554, GRADE 36. CONTRACT DOCUMENTS AND SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE OWNER'S REPRESENTATIVE. C. BOLT HOLES SHALL NOT BE MORE THAN $\frac{1}{16}$ " LARGER THAN THE BOLT DIAMETER. 21. ARCHITECT'S / ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT B CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM CONTRACT DOCUMENTS. 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 22. SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION AND NUTS. WITH RELEVANT PORTION OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS IF REQUIRED AND WHERE DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN. E. WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE. 10. 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. 11. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE DRILLED HOLES OF 2/3 THE SHANK DIAMETER. 12. PROVIDE FULL BEARING AT END OF ALL BLOCKING, U.N.O.

LUMBER

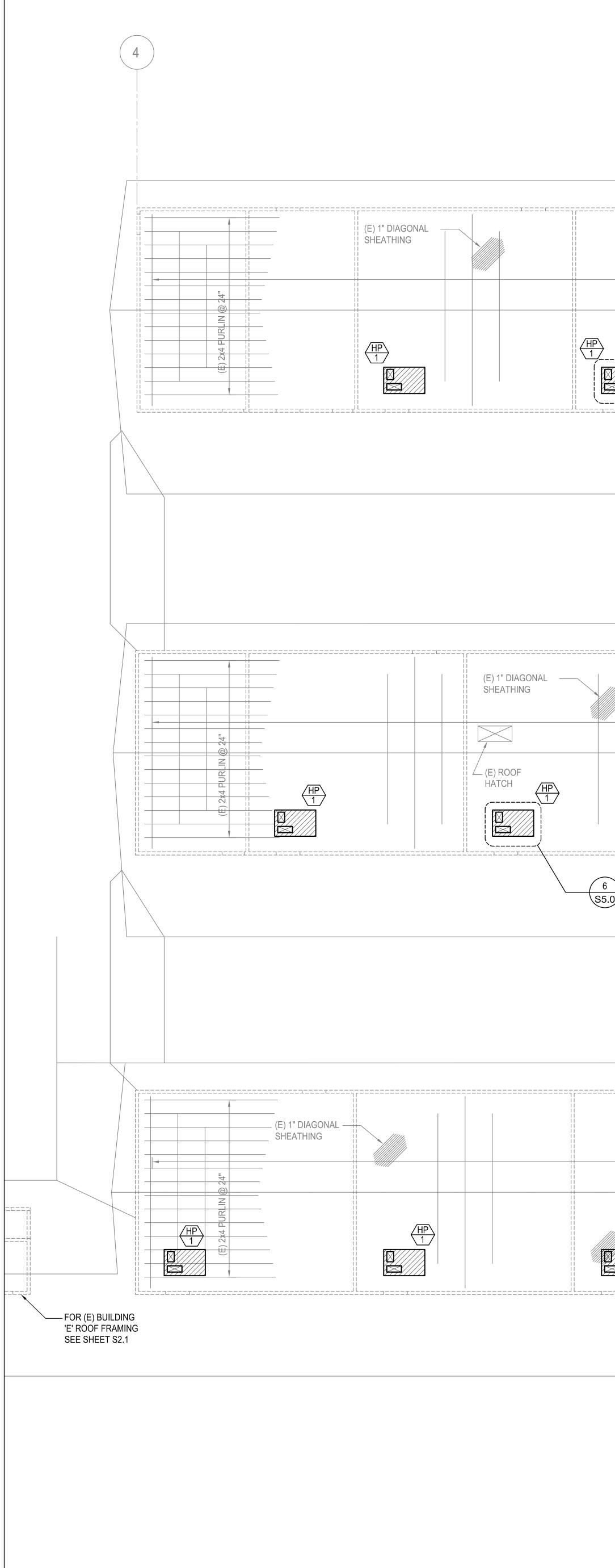
GENERAL

9. BOLTS:



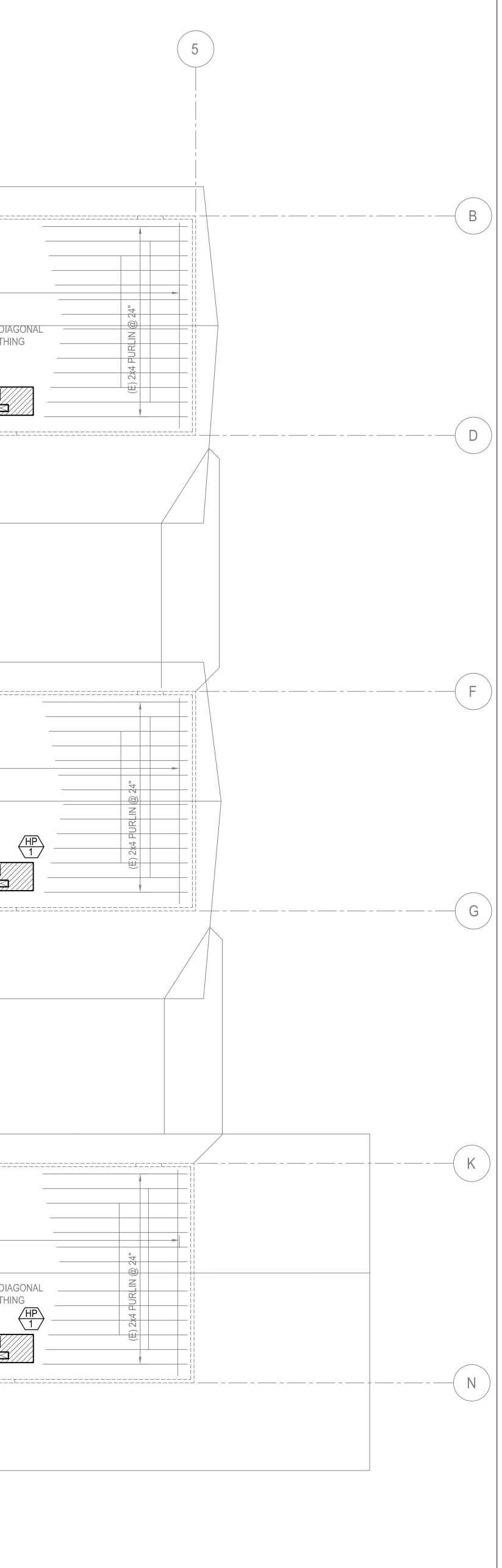






		(E) RJ-1 STEEL JOISTS @ 4'-0" (E) 4x4 CONT @ RIDGE (E) ROOF HATCH HP 1			(E) 1" DIAG SHEATHING (HP) 1
	6 FRAMING AT S5.0 MECH UNIT, T	YP			
-	ROOF FRAMING PLA /8" = 1'-0"	N - BUILDING D	 N		
		(E) RJ-1 STEEL JOISTS @ 4'-0" (E) 4x4 CONT @ RIDGE (E) 1" DIAGONAL SHEATHING HP 1		(E) ROOF HATCH	
-	т г, түр <u>ROOF FRAMING PLA</u> /8" = 1'-0"	N - BUILDING C	Ń	B	
		(E) RJ-1 STEEL JOISTS @ 4'-0" (E) 4x4 CONT @ RIDGE (E) ROOF HATCH HP 1			(E) 1" DIAG SHEATHING
	<u>ROOF FRAMING PLA</u> /8" = 1'-0"	N - BUILDING B	 - N	6 FRAMING AT MECH UNIT, TY	(P

 			 	.=====================================	
	(E) RJ-1 STEEL JOISTS @ 4	SLOP			
	(E) 4x4 CONT (C) (E) ROOF HATCH			S S	E) 1" C SHEAT
6 FRAMING AT S5.0 MECH UNIT, TY	ſP		 		

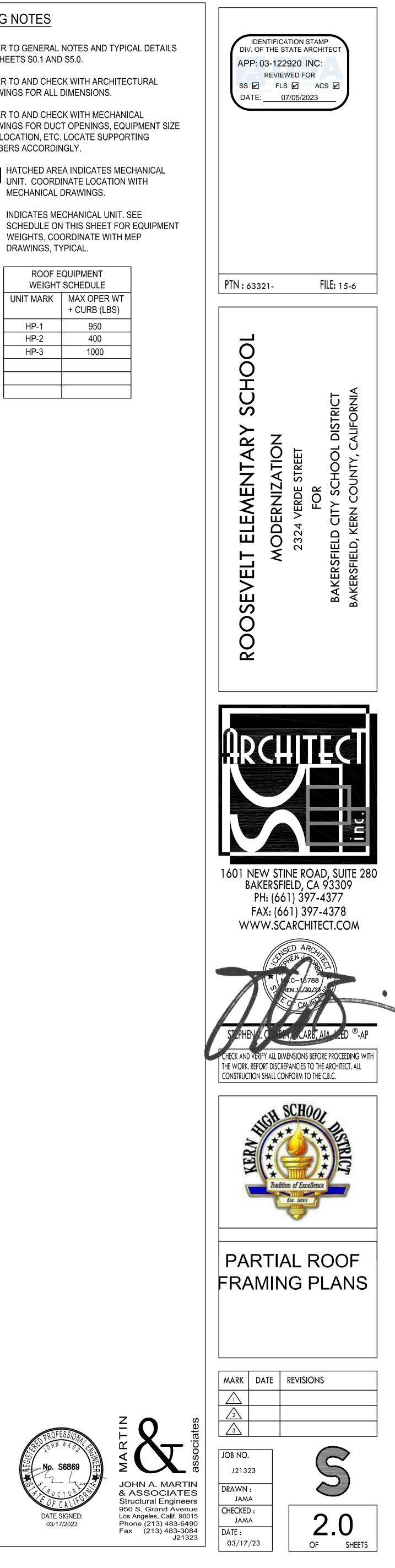


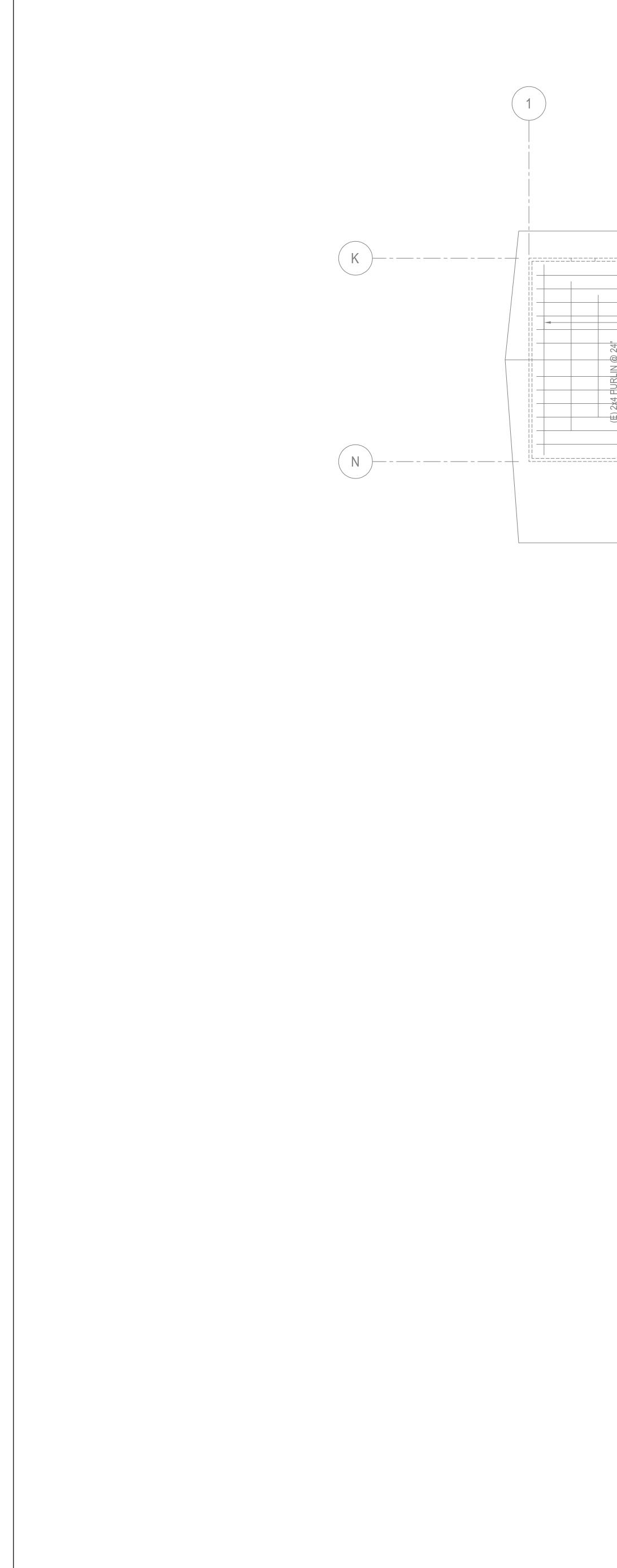
FRAMING NOTES

- 1. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S0.1 AND S5.0.
- 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 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	950				
HP-2	400				
HP-3	1000				







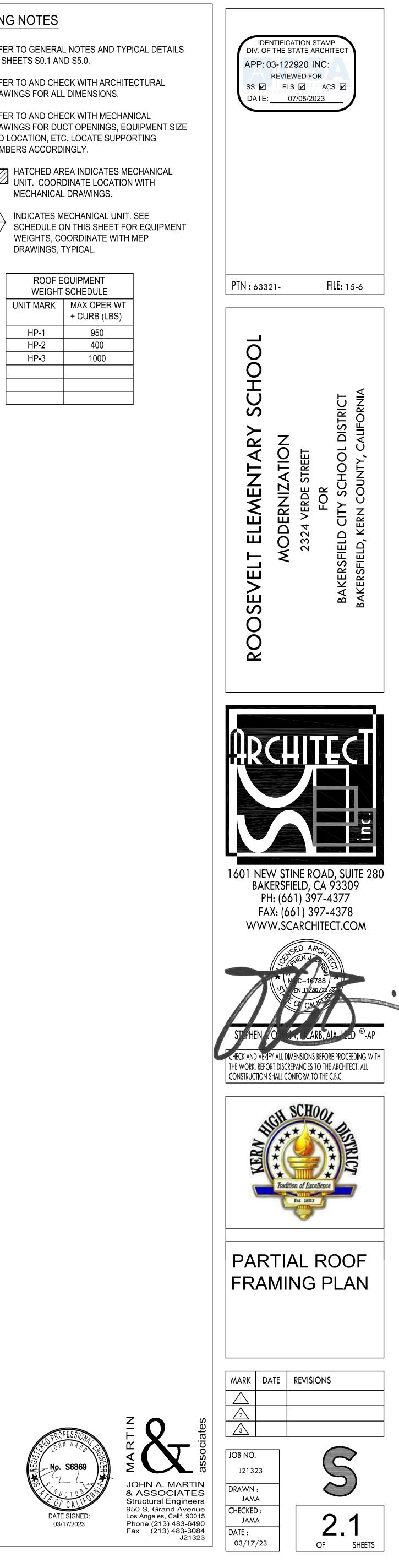
		2
(E) 2x4 PURLIN @ 24"	(E) RJ-1 STEEL JOISTS @ 4'-0" (E) ROOF (E) Ax4 CONT @ RIDGE (E) ROOF HATCH (E) ROOF HATCH (E) 1" DIAGONAL SHEATHING (E) 1" DIAGONAL (E)	
		6 FRAMING AT S5.0 MECH UNIT, TYP
	ROOF FRAMING PLAN - BUILDING E	

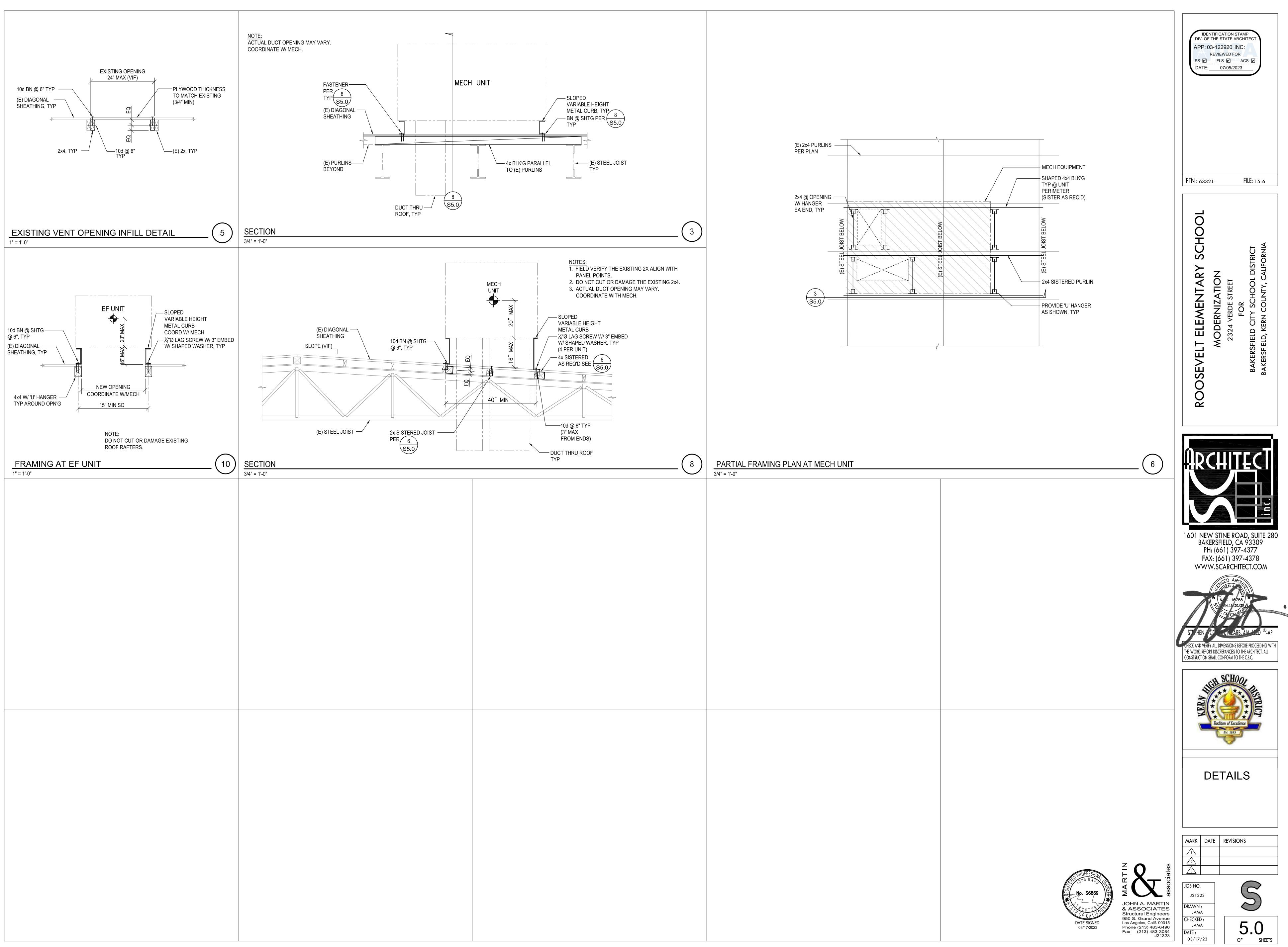
FRAMING NOTES

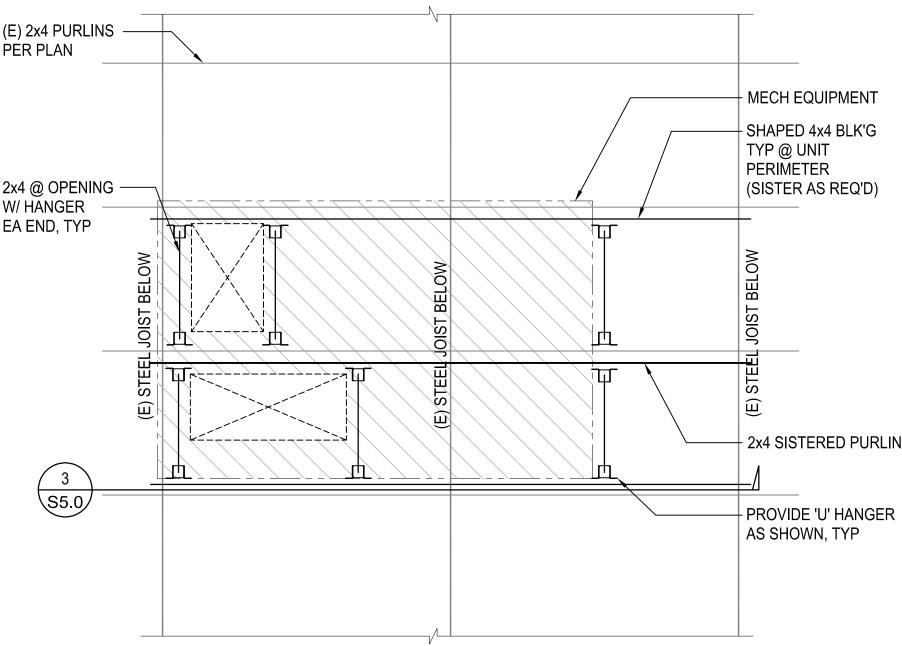
- 1. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S0.1 AND S5.0.
- 2. REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- REFER TO AND CHECK WITH MECHANICAL 3. DRAWINGS FOR DUCT OPENINGS, EQUIPMENT SIZE AND LOCATION, ETC. LOCATE SUPPORTING MEMBERS ACCORDINGLY.
- HATCHED AREA INDICATES MECHANICAL UNIT. COORDINATE LOCATION WITH 4. MECHANICAL DRAWINGS.
- 5. XXX 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	950				
HP-2	400				
HP-3	1000				









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-I.
- B. 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.
- . When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
- 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):

Option 1: Detailed on the approved drawings with project specific notes and details

Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #_OPM 0052-13 B-LINE/TOLCO SYSTEM_____.

Air Conditioning Legend

SYMBOL	1000				
	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
A.C	С.	Air Conditioning		H.W.R.	Heating Water Return
A.C	D.	Access Door		H.W.S.	Heating Water Supply
A.F	F.F.	Above Finished Floor		INT.	Internal
A.H	н.	Air Handler		LOC.	Location
B.A	A.S,	Building Automation System		М.О.	Motor Operated
B.V	V.	Butterfly Valve		(N)	New
C.D	D.	Condensate Drain		N.C.	Normally Closed
C.E	E.	Ceiling Exhaust Register		N.I.C.	Not in Contract
C.W	W.R.	Condensor Water Return		N.O.	Normally Open
C.W	W.S.	Condensor Water Supply		0.S.A.	Outside Air
C.H	H.W.R.	Chilled/Hot Water Return	$\rightarrow \rightarrow $	0.B.D.	Opposed Blade Damper
C.H	H.W.S.	Chilled/Hot Water Supply	— — —	P.O.C.	Point of Connection
CO	DMB.	Combustion	ب_≣;	P.P	Petes Plug
со	ONN.	Connection		PROV.	Provide
со	ONT.	Continuation		P.R.V.	Pressure Reducing Valve
C.R	R.	Ceiling Return Register		SIM.	Similar
CL	.G.	Ceiling		S.F.D.	Smoke / Fire Damper
C .e	S.	Ceiling Supply Register	 9.r. <i>D</i> .	Э.Г.V.	w/ access panel
	V.	Check Valve		S.M. or S/M	Sheet Metal
D.0	C.W.	Domestic Cold Water		S.O.V.	Shut Off Valve
DI/	А.	Diameter		S.P.S.T.	Single Pole Single Throw
D.L	L.	Door Louver	(Î)	STAT	Thermostat or Room Sensor
DN	٧.	Down	-	SURF.	Surface
D.F	P.D.T.	Double Pole Double Throw		(TYP)	Typical
D.1	T.R.	Duct Thru Roof		U.G.	Underground
(E)	.)	Existing		U.N.O.	Unless Noted Otherwise
E.F	F.	Exhaust Fan		V.D.	Volume Damper
E.N	M.S.	Energy Management System	<u>م</u>	V.D.	Vol. Damper w/ Remote Operator
EX	κ.	Exhaust		W/	With
	D.	Fire Damper w/ acc. panel		W.R.	Wall Return Register
Fle	ex. Conn	Flexible Connection	╞ ━━━┥	W.S.	Wall Supply Register
FL	.R.	Floor	<u> </u>		Duct w/ Acoustic Lining
F.T	T.R.	Flue Thru Roof))))	T.V.	Turning Vanes
Fu	urn.	Furnace	⊢		Extractor
GA	Α.	Gauge			
GA	AL.	Gallon	· Jul		
GA	ALV.	Galvanized	0		CO2 SENSOR
G.I	.P.M.	Gallons per Minute			
GR	RD.	Grade			Union
🖂 G.V	.V.	Gate Valve	→		Reducer or Increaser

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 8 return air filters, 10.6 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, 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 far Sloped roof curb with seismic hold down clips, internal high and low compressor protection. Electrical: 34 MCA / 40 MOCP @ 460v-3ph. (HP Unit) 1.9 MCA / 3.4 MOCP @ 460v-3ph. (Power Exhaust) HP-2 M1.2

Carrier 50VT-C24 Rooftop Heat Pump, 700 CFM @ 0.40 E.S.P., 0.38 BHP direct drive supply fan motor, 22,620 BTUH total / 16,730 sensible net cooling / 22,380 heating capacity / 14.5 SEER / 8.2 HSPF at ARI conditions. Single stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. 2" Deep MERV 13 return air filters in factory filter rack, 5.4 kW electric strip heater, factory mounted and wired, single point power connection for heat pump and strip heater. Motorized two-position outside air damper. Sloped roof curb with seismic hold down clips internal high and low compressor protection.

Carrier 50GCQM06 Rooftop Heat Pump, 1,800 CFM @ 0.60 E.S.P., 0.66 BHP direct drive supply fan

HP-3 M1.2

HP-1 (A) 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 8 return air filters, 10.6 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, 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: 31 MCA / 35 MOCP @ 460v-3ph. (HP Unit) Operating Weight: 809 Lb 3.5 MCA / 6.3 MOCP @ 460v-3ph. (Power Exhaust) Curb: 107 lbs

EF-1

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.

Codes:	
California	Code of Regulations
Part 1 - 2	022 California Stanc
Part 2 - 2	019 California Build
Part 3 - 2	019 California Electi
Part 4 - 2	019 California Mech
Part 5 - 2	019 California Plum
Part 6 - 2	019 California Energ
Part 9 - 2	019 California Fire C
Part 11 - 2	019 California Gree
Standar	ds and Guides:
ADAAG -	American with Di
Fixtures -	Plumbing fixtures Green Building St

General Project Note:

- unless specifically dimensioned. Some work may be shown offset for clarity. The actual
- Cutting, boring, saw cutting or drilling through the new or existing structural elements to be
- CD-1 sizing chart for neck sizes. CD-2 diffuser sizing chart for neck size. <u>CR-1</u>
- Titus Model 50F eggcrate T-Bar mount return grille.

CFM	TITUS MCD, SQUARE NECK	CFM	TITUS TDC, SQUARE NECK
0 - 200	6" × 6"	0 - 150	6" × 6"
201 - 325	8" × 8"	151 - 275	9" x 9"
326 - 450	10" × 10"	276 - 475	2" x 2"
451 - 600	2" × 2"	476 - 700	15" x 15"
601 - 700	4" × 4"	701 - 950	18" × 18"
701 - 850	16" × 16"	951 - 1250	2 " × 2 "
851 - 950	18" × 18"	1251 - 1700	24" × 24"
951 - 1150	20" × 20"	1701 - 2500	30" x 30"

BLDC (E) FH 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. ighting 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 , 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: nttps://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.

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

EQUIPMENT SCHEDULE

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 Operating Weight: 816 Lb Curb: 107 lb

Electrical: 53.7 MCA / 60 MOCP @ 208v-1ph. (HP Unit) Operating Weight: Unit 326 Lb Curb 65 Lbs

Greenheck SPA-50-90-VG Ceiling Mounted Exhaust Fan. 90 CFM @ 0.20" E.S.P., 887 RPM, 6 watts

Operating Weight: 12 Lbs.

ns (C.C.R)

dards Administrative Code, Title 24, C.C.R. ding Code (C.B.C.), Title 24, C.C.R. Volumes 1trical Code, Title 24, C.C.R. chanical Code (C.M.C.), Title 24, C.C.R. mbing Code (C.P.C.), Title 24, C.C.R. rgy Code, Title 24, C.C.R.

Code, Title 24, C.C.R. en Code, Title 24, C.C.R.

Disabilities Act, Accessibility Guidelines. s to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

Coordination of work: Layout of materials, equipment and systems is generally diagrammatic 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.

done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.

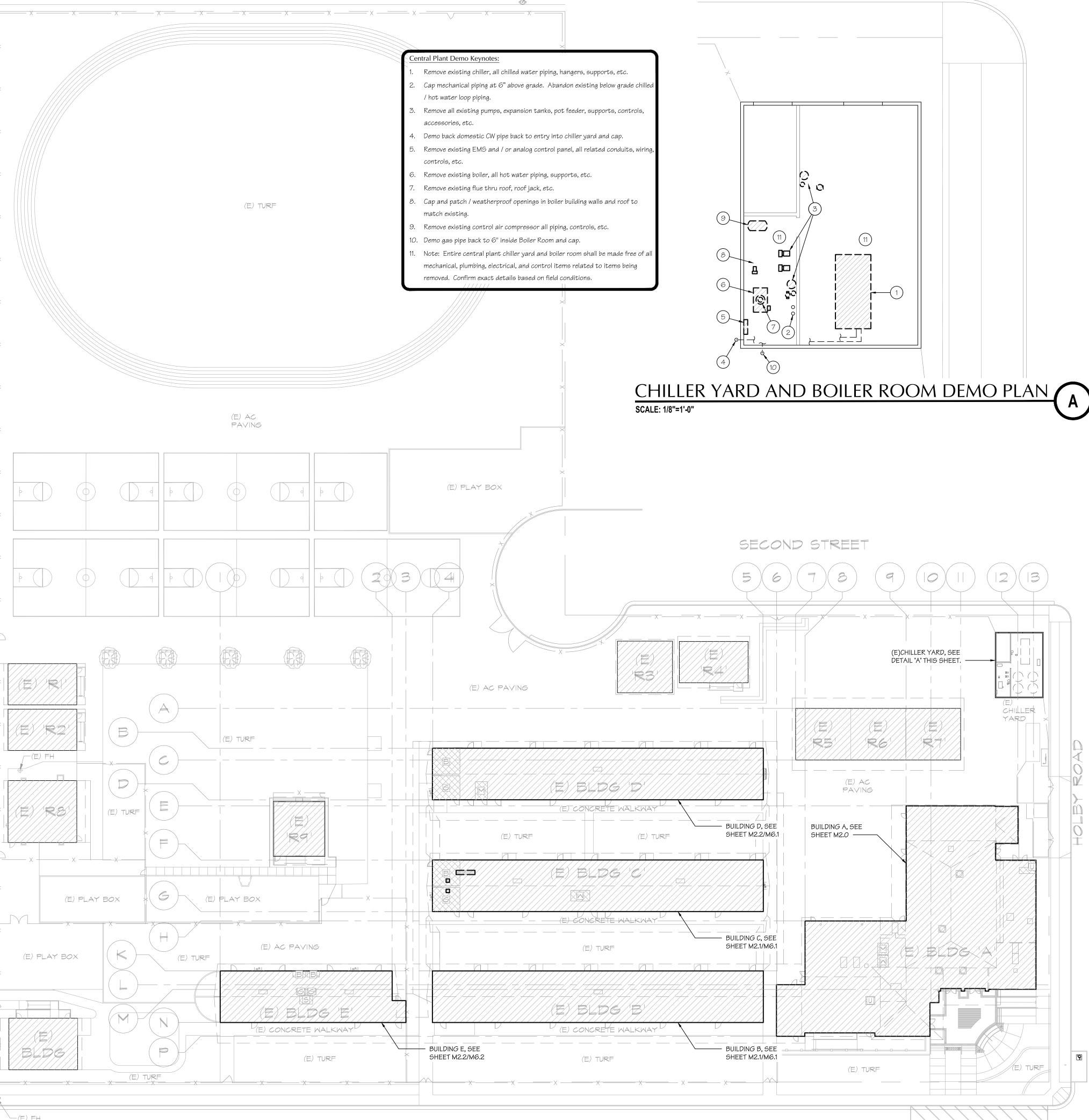
GRILLE SCHEDULE

Titus Model TDC Louvered Face Diffuser with T-Bar mount frame and O.B.D. See diffuser

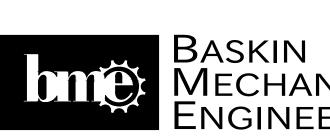
Titus Model TDC Louvered Face Diffuser with flat surface mount frame and O.B.D. See

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

DIFFUSER SIZING CHART









Fresno, CA 93721

Job: 21146

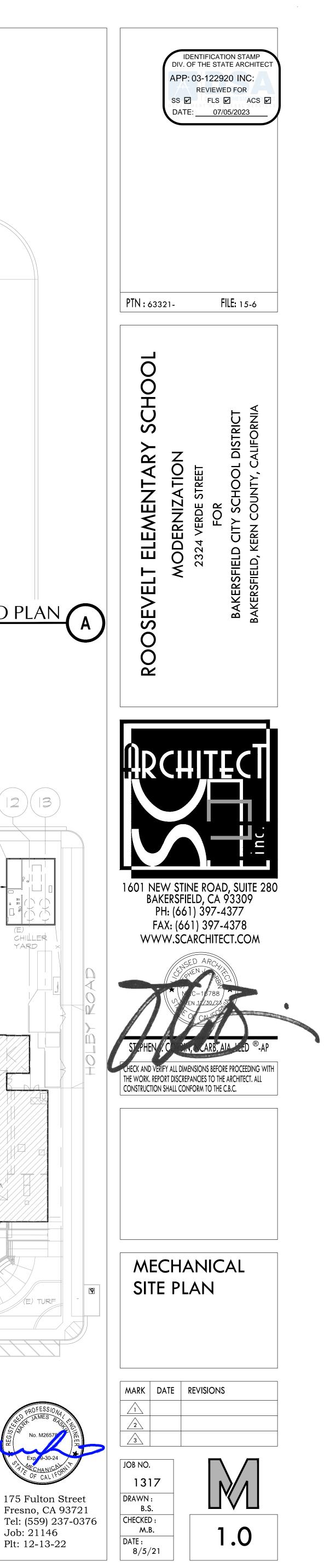
Plt: 12-13-22

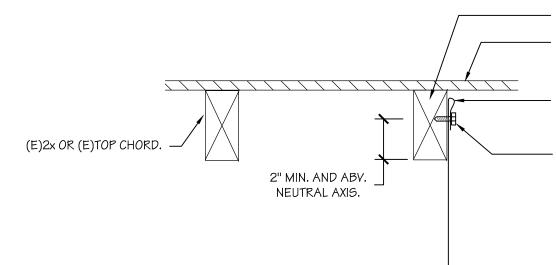
ବ

VERDE STREET

BANK STREET

/--(E) FH





DUCT HANGER UPPER ATTACHMENT

SCALE: N.T.S.

NOTE: RELAY MODULE AT AC UNIT APPLICABLE TO HP-3 ONLY RELAY MODULE PROVIDED UNDER SPEC DIVISION 16. CONTACTS OPEN UPON ALARM AT FIRE ALARM PANEL ------WIRING TO AC UNIT CONTROLS PROVIDED UNDER SPEC DIVISION 15. WIRE TO SHUT OFF AC UNIT WITHOUT DELAY UPON CONTACTS OPENING AC UNIT(S)

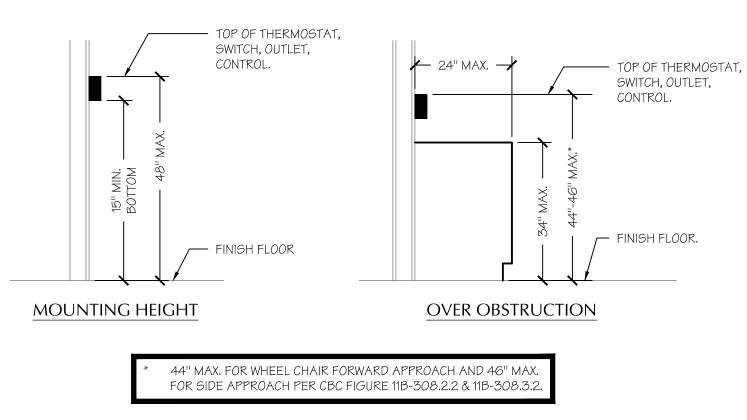
HP UNIT INTERLOCKS WITH FIRE ALARM PANEL

SCALE: N.T.S.

— (E)2x OR (E) TOP CHORD - (E) DIAPHRAGM

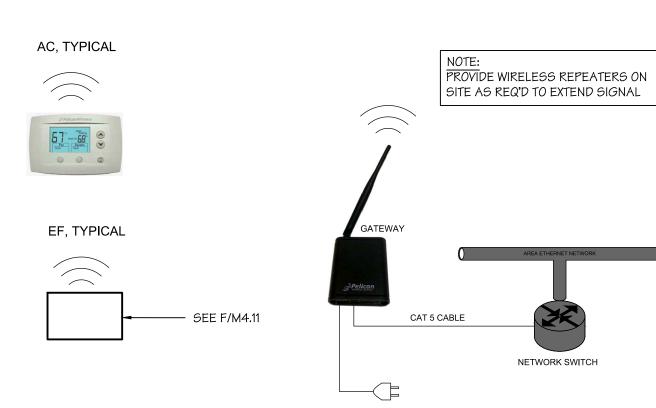
— 20 GA. SHEET METAL STRAP DOUBLED UP AT CONNECTION TO ROOF STRUCTURAL.

- #10 x3/4" S.M.S.



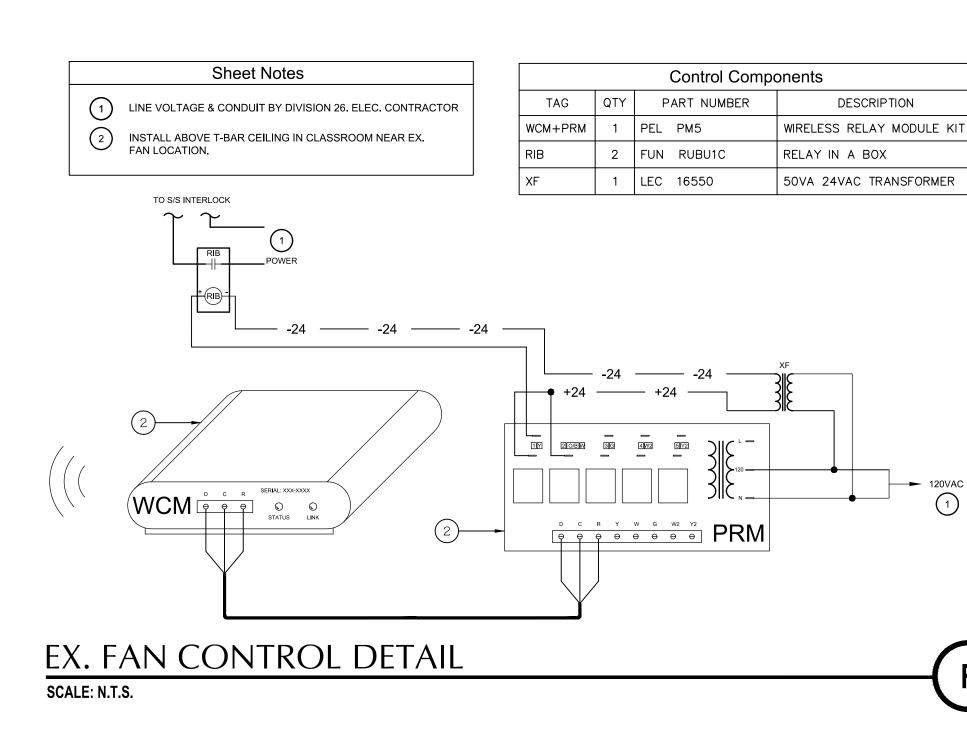
G SCALE: N.T.S.

THERMOSTAT MOUNTING LOCATION



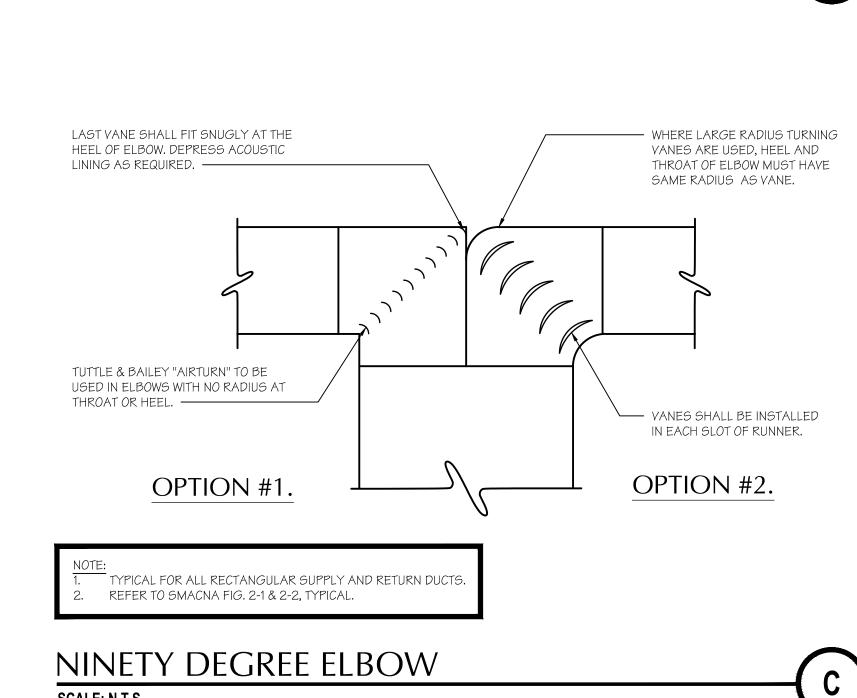
Η

LAN ARCHITECTURE SCALE: N.T.S.

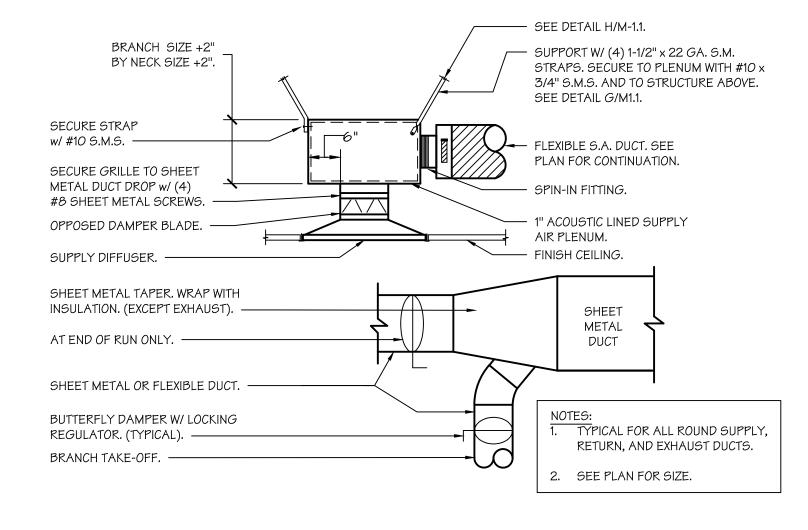


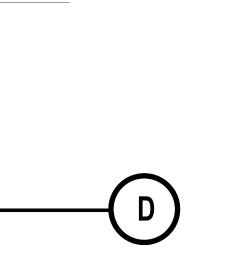










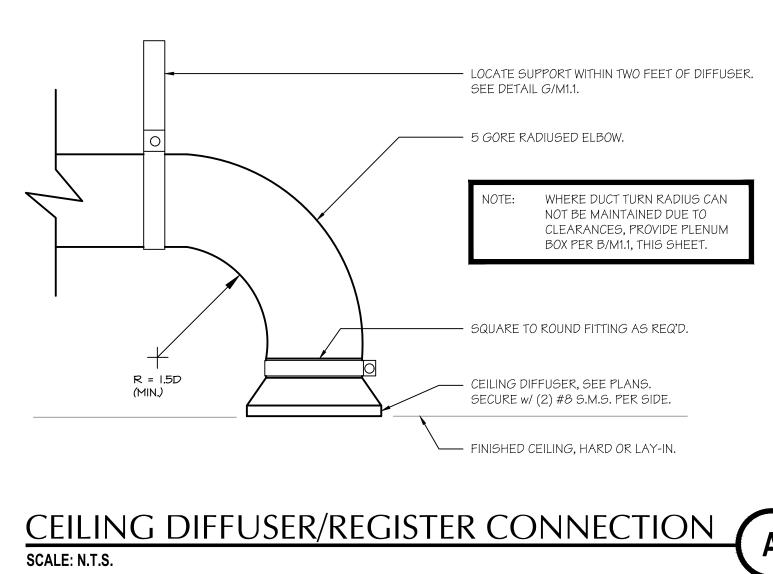


Ε

120VAC

SCALE: N.T.S.

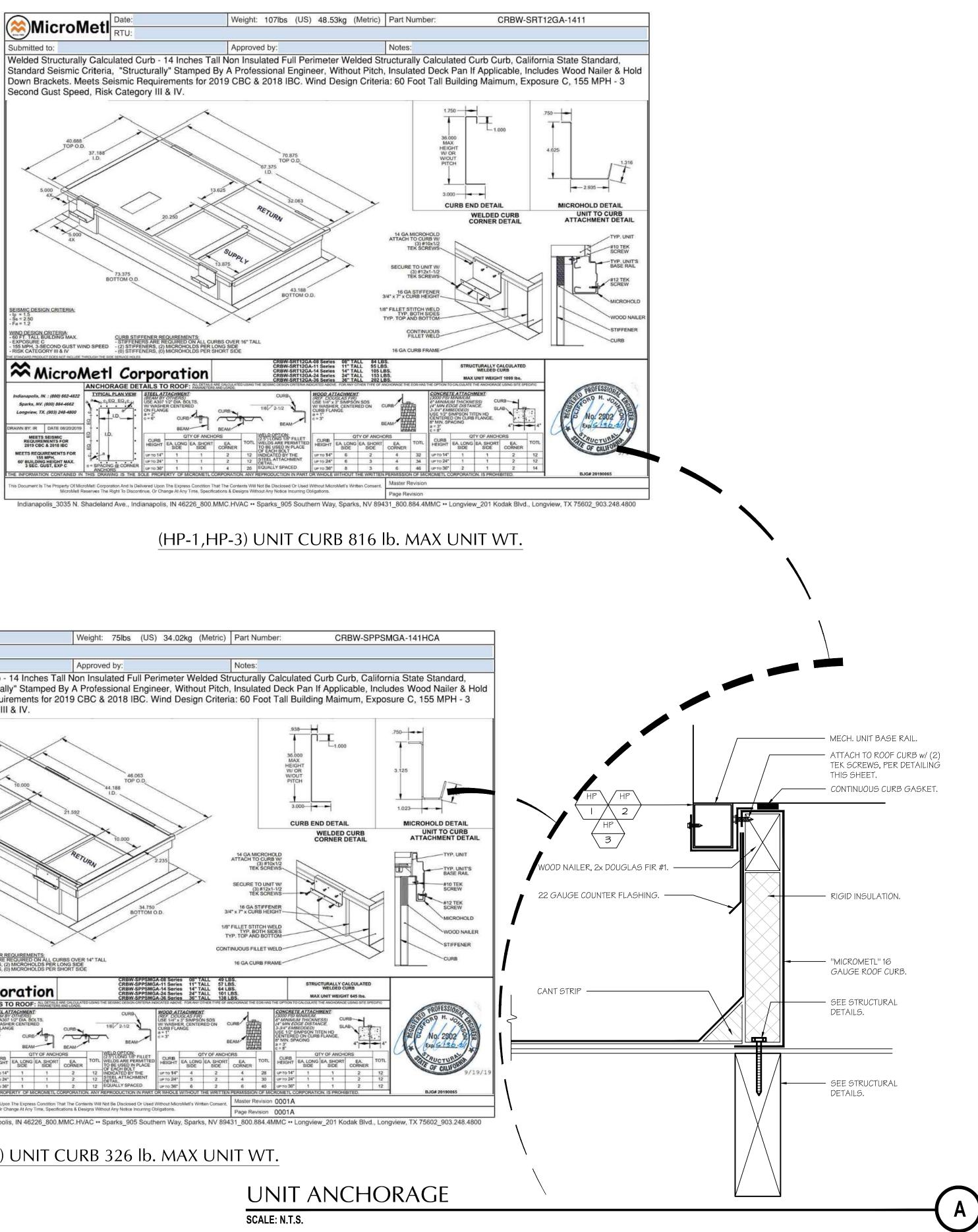
CONTROL.

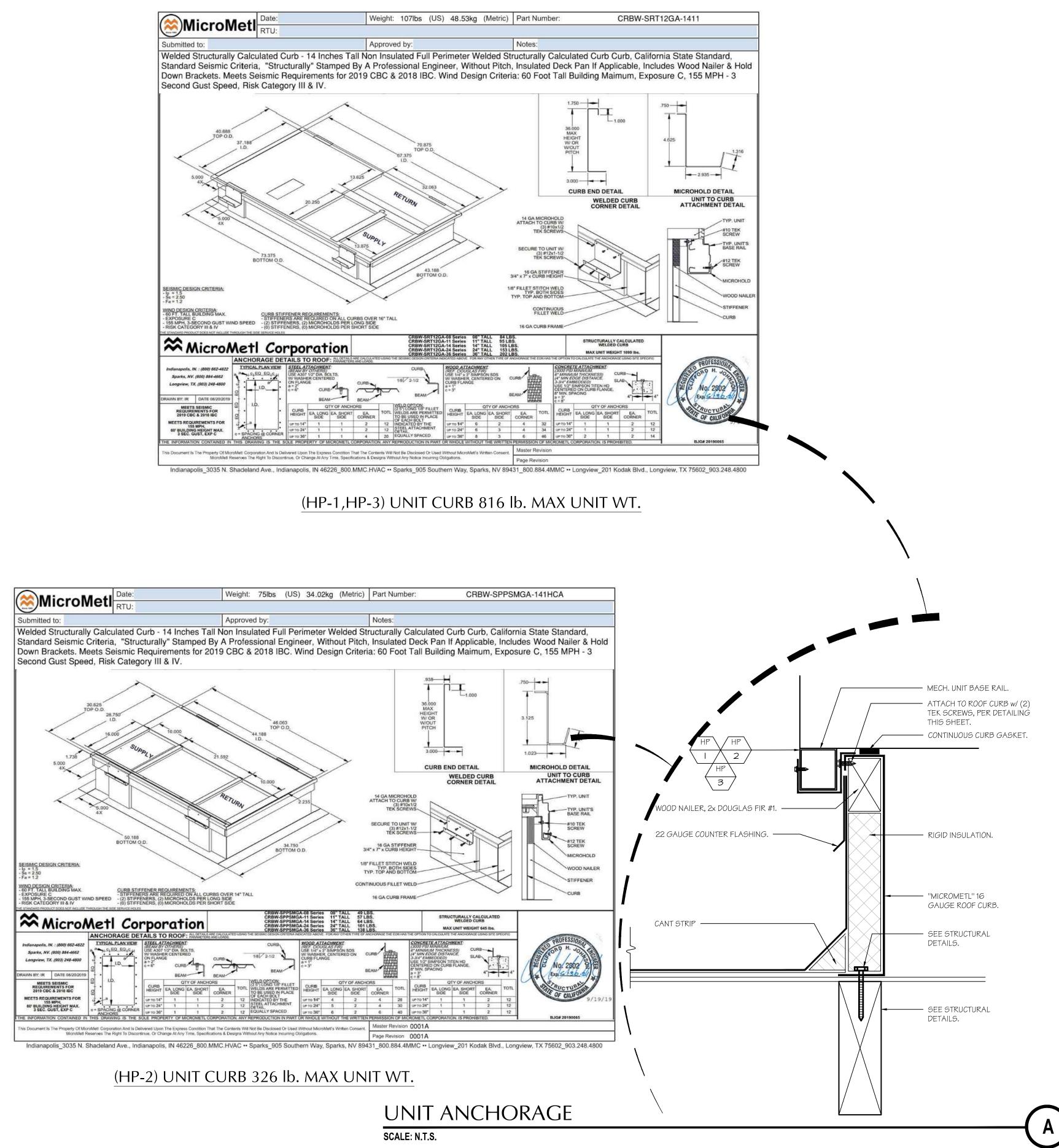




A



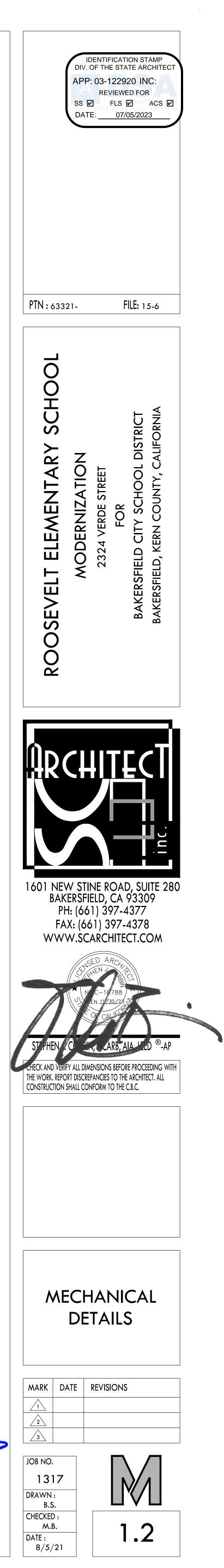


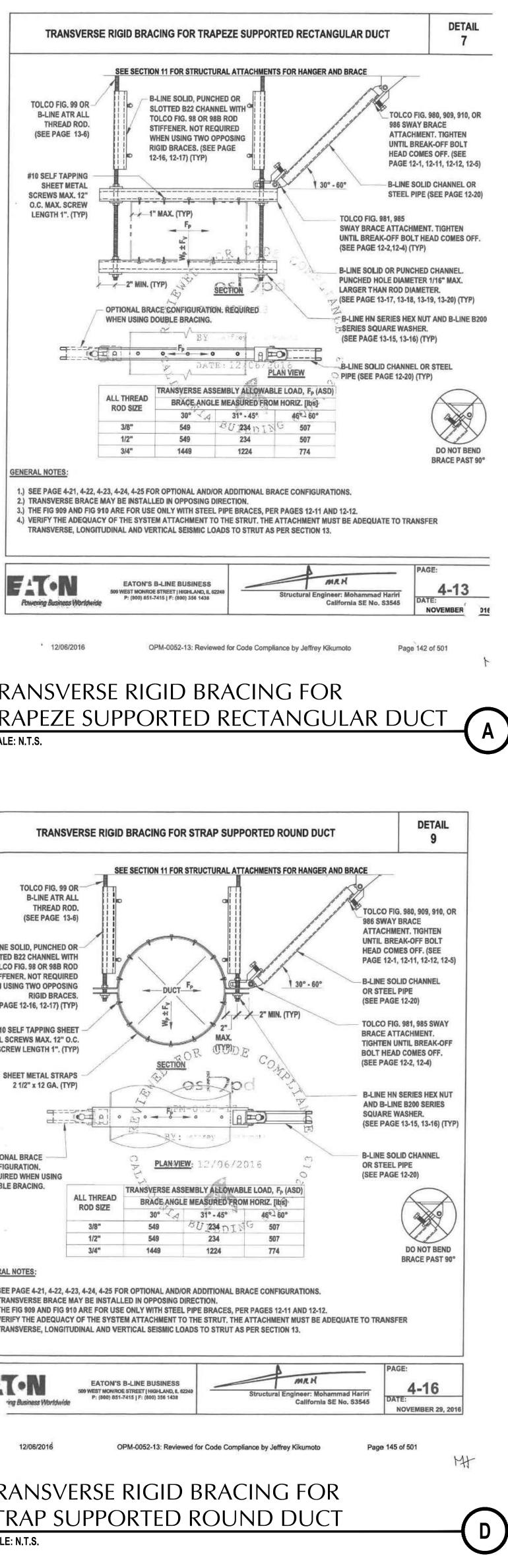


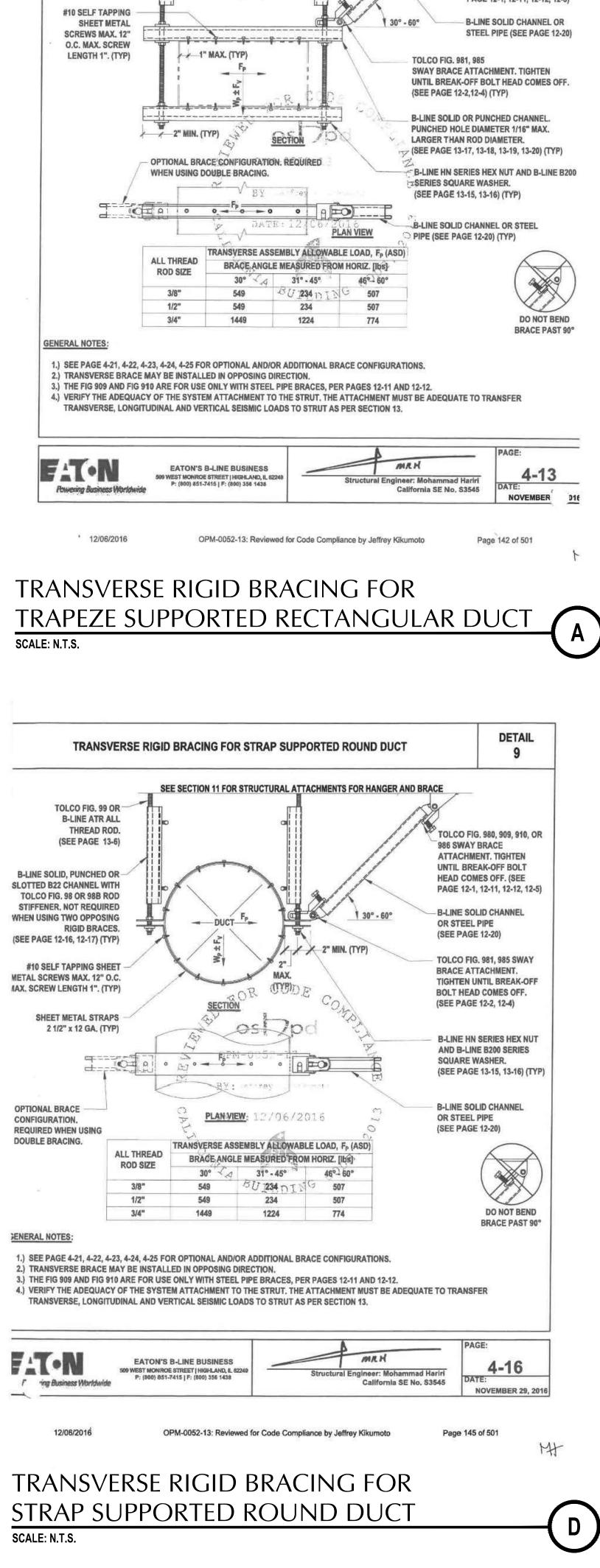


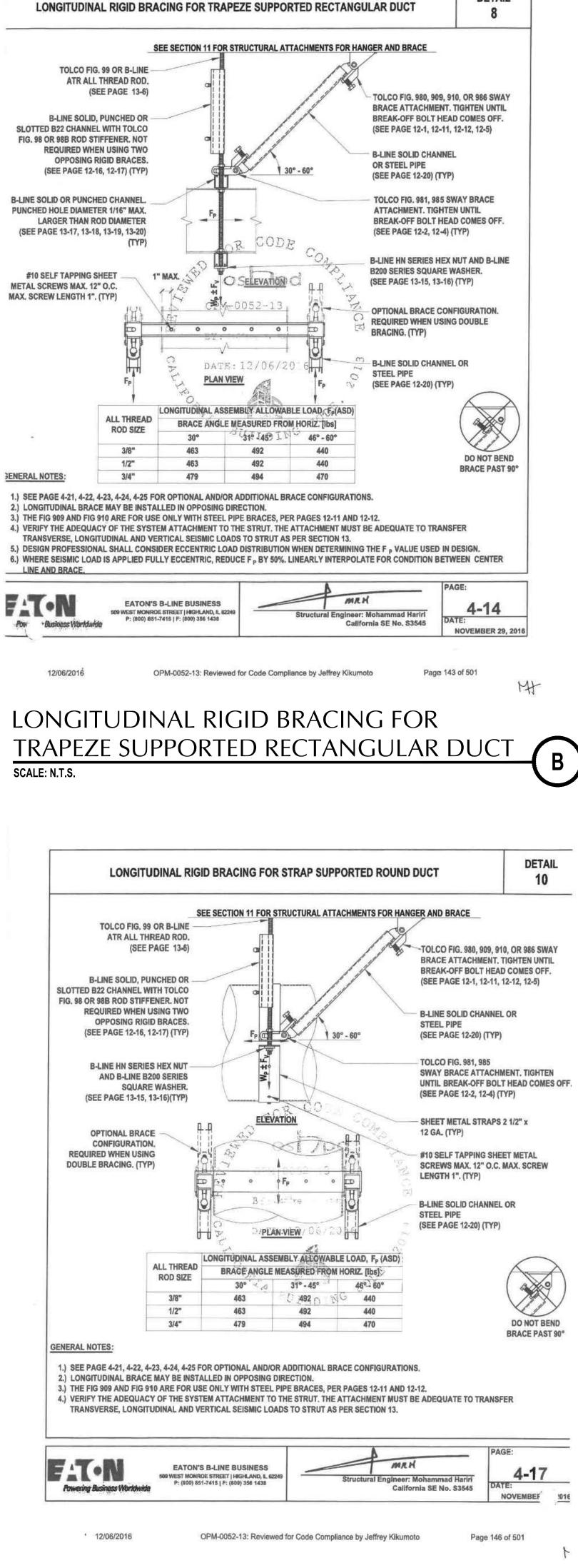


CMÉ



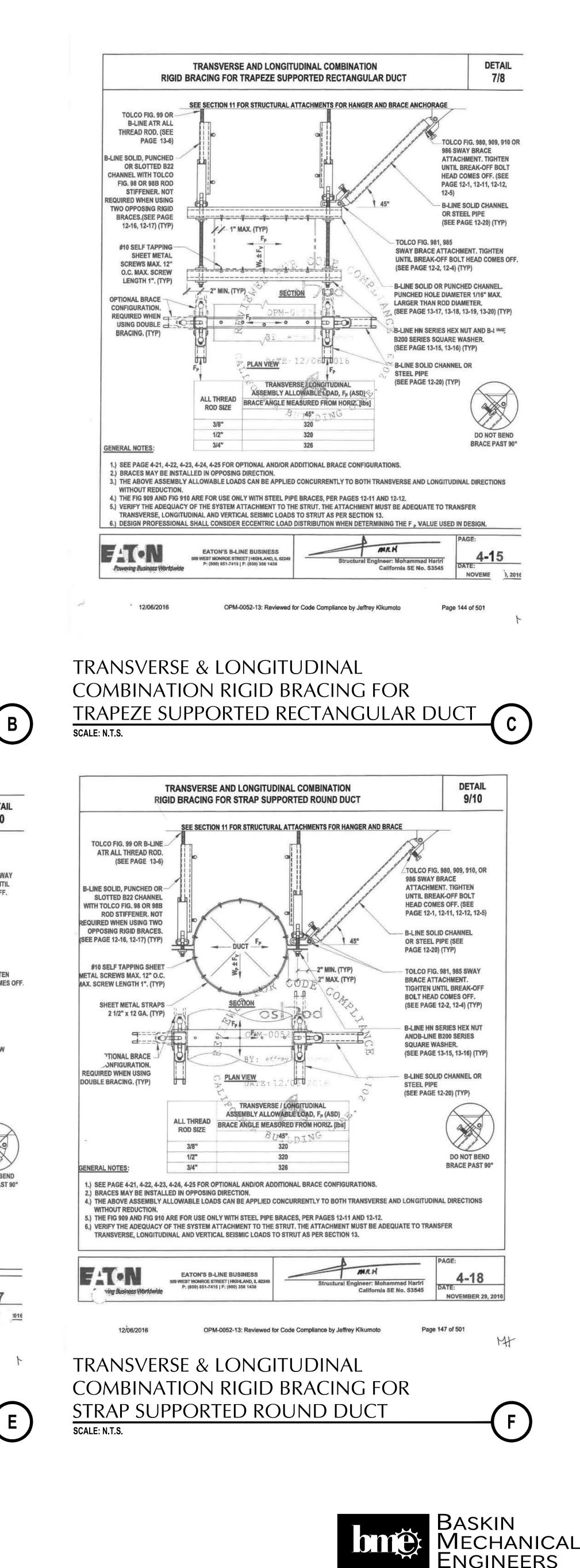






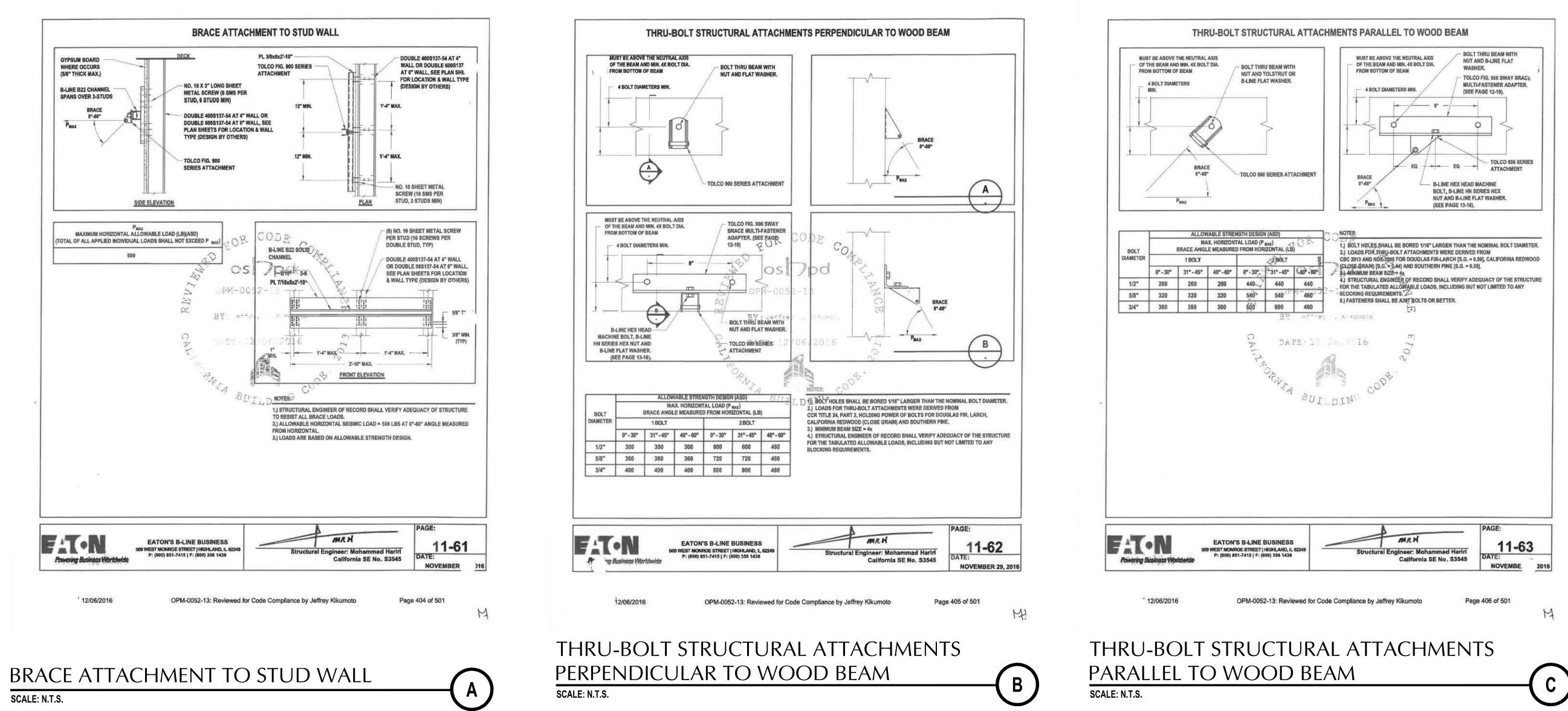
DETAIL

LONGITUDINAL RIGID BRACING FOR STRAP SUPPORTED ROUND DUCT SCALE: N.T.S.



175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 ob: 21146 Plt: 12-13-22



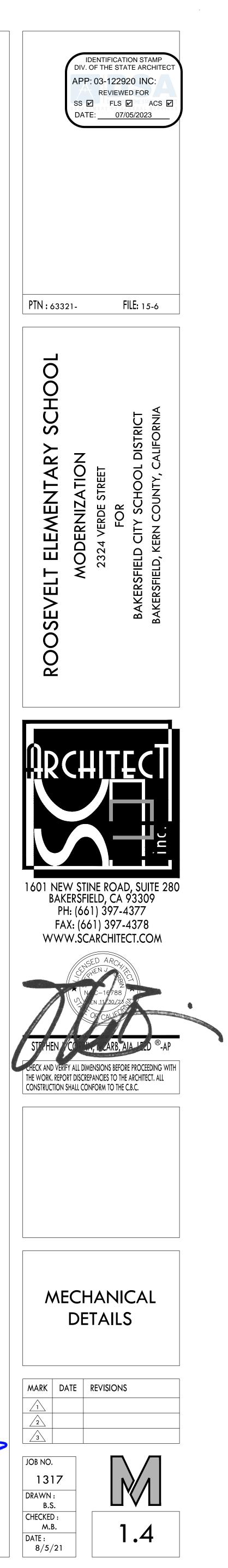


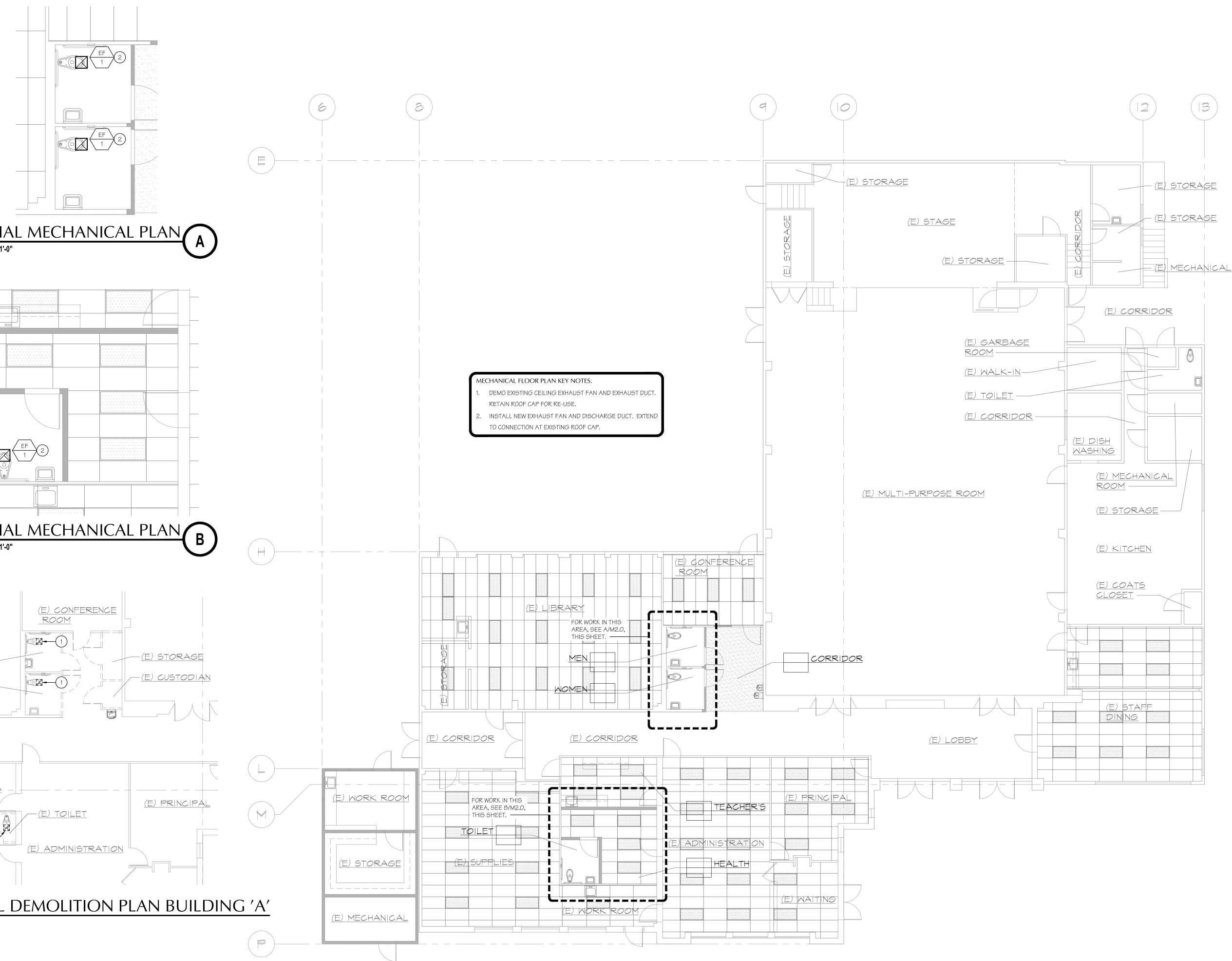
SCALE: N.T.S.

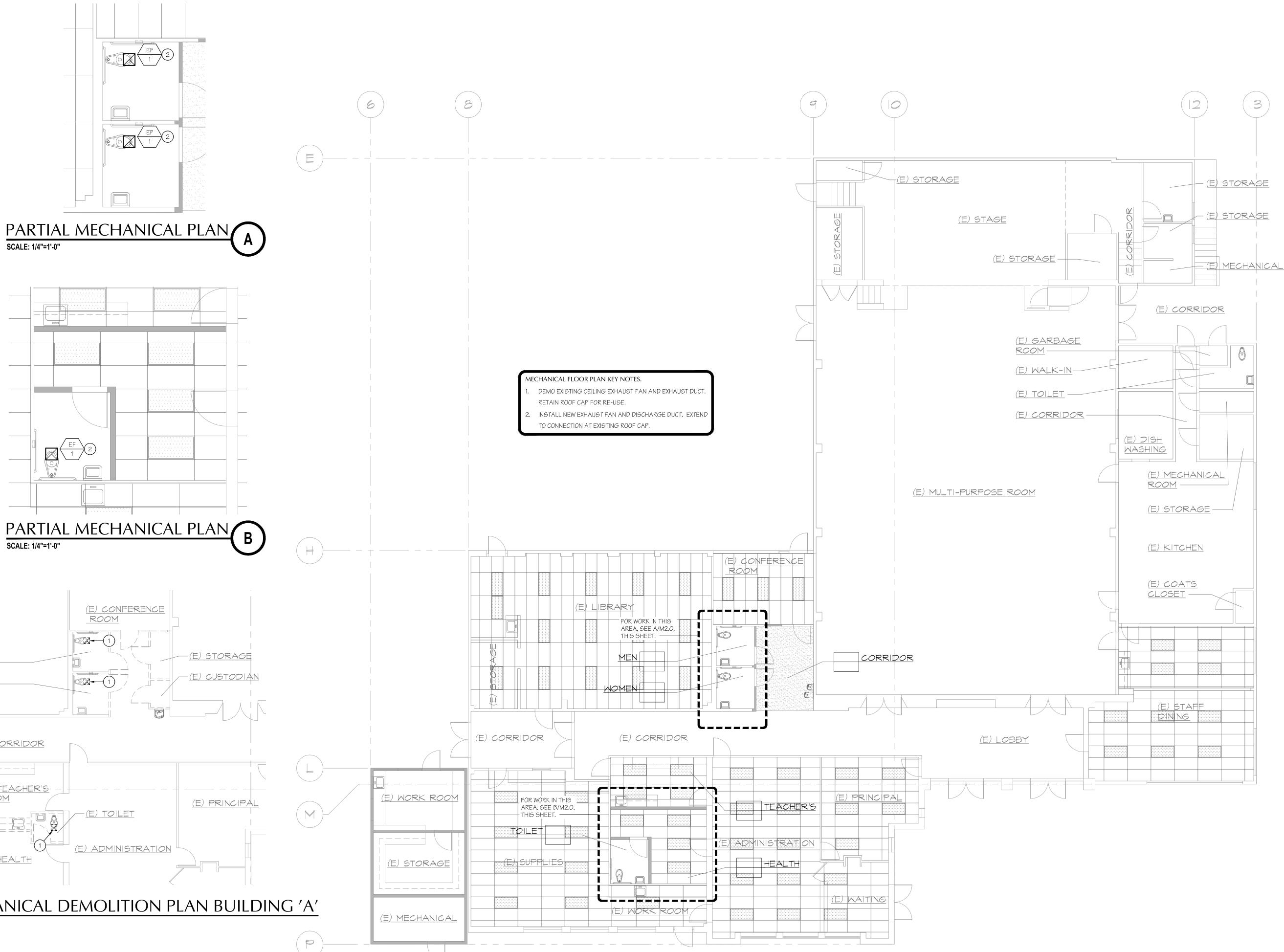


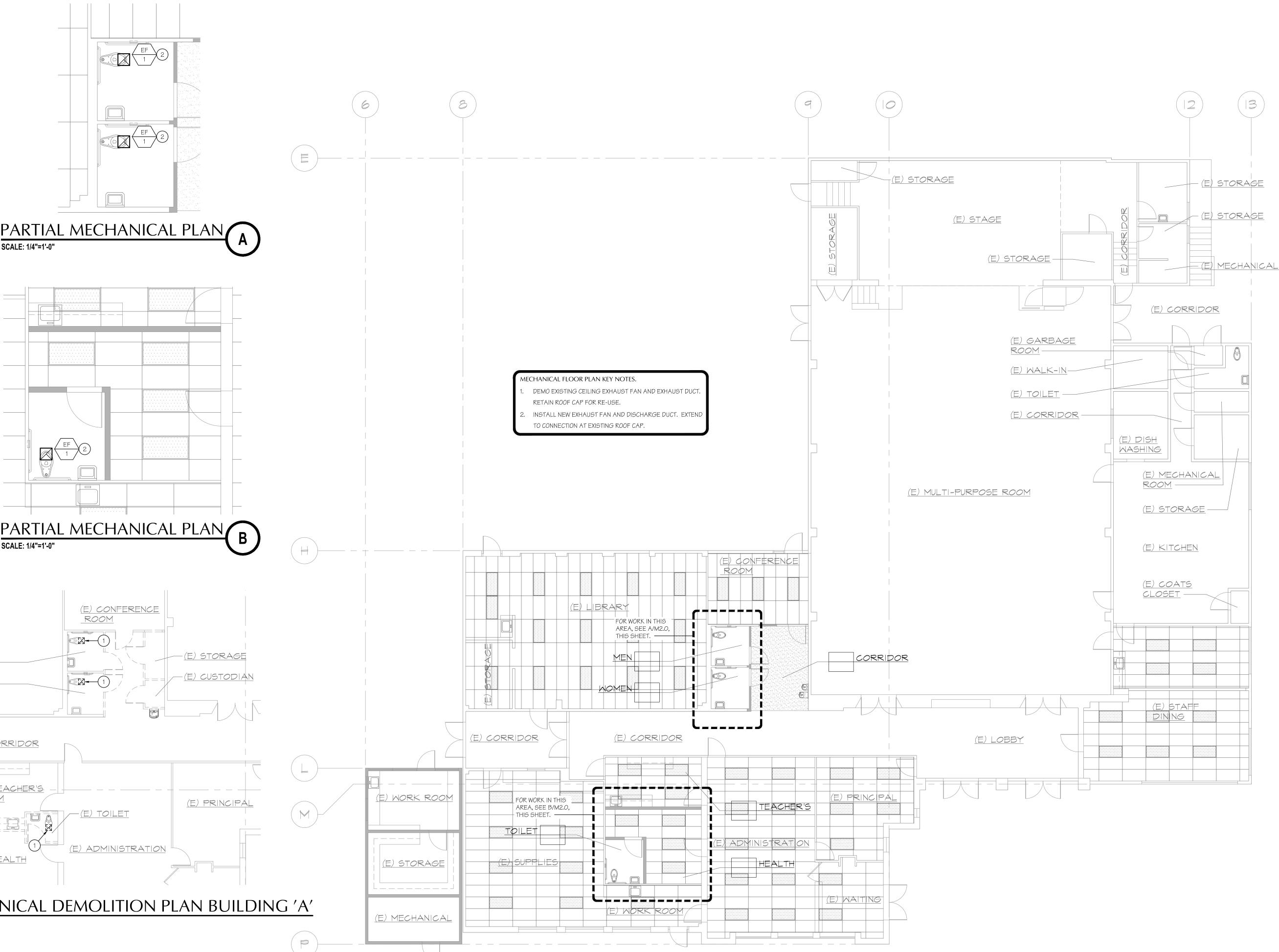


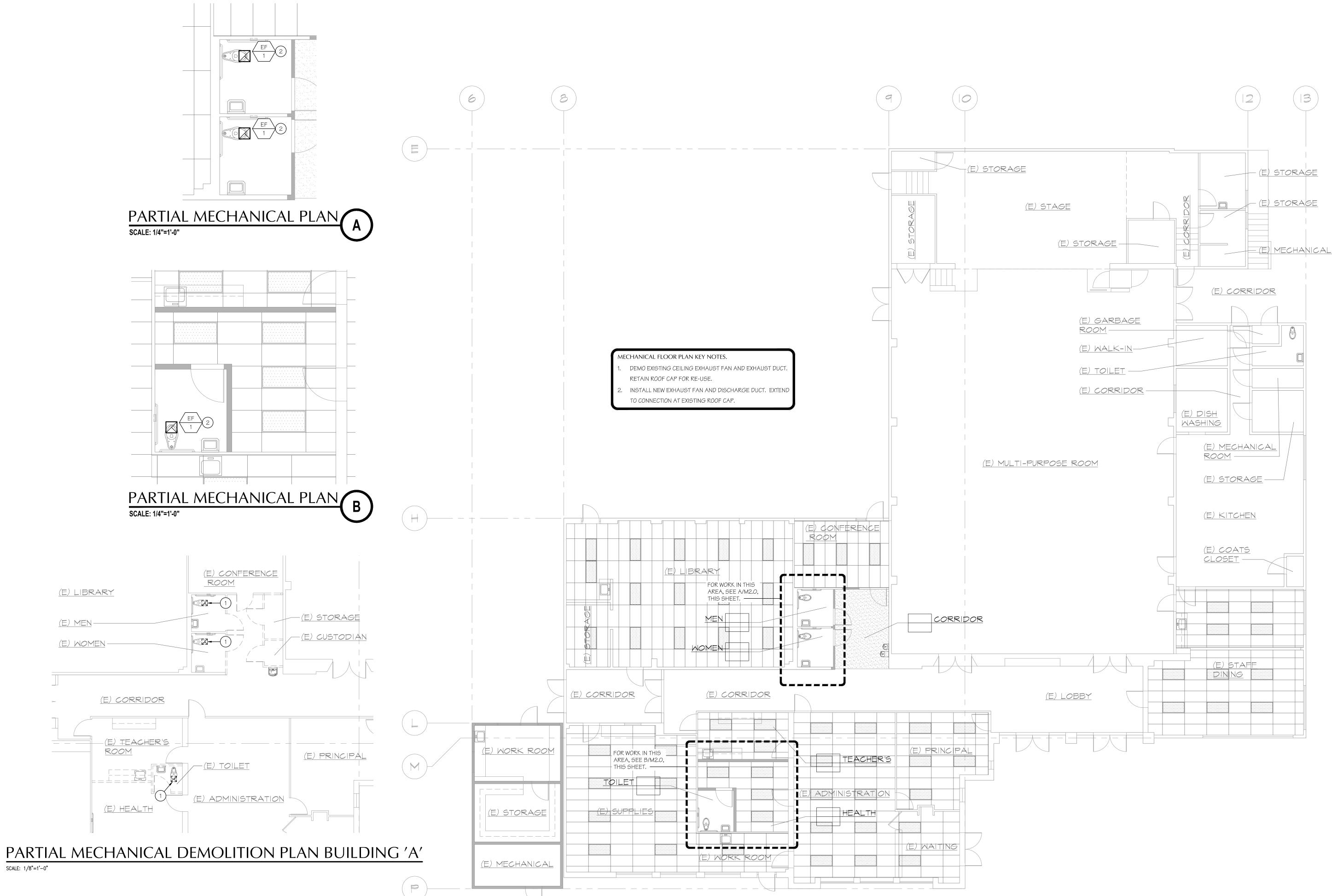












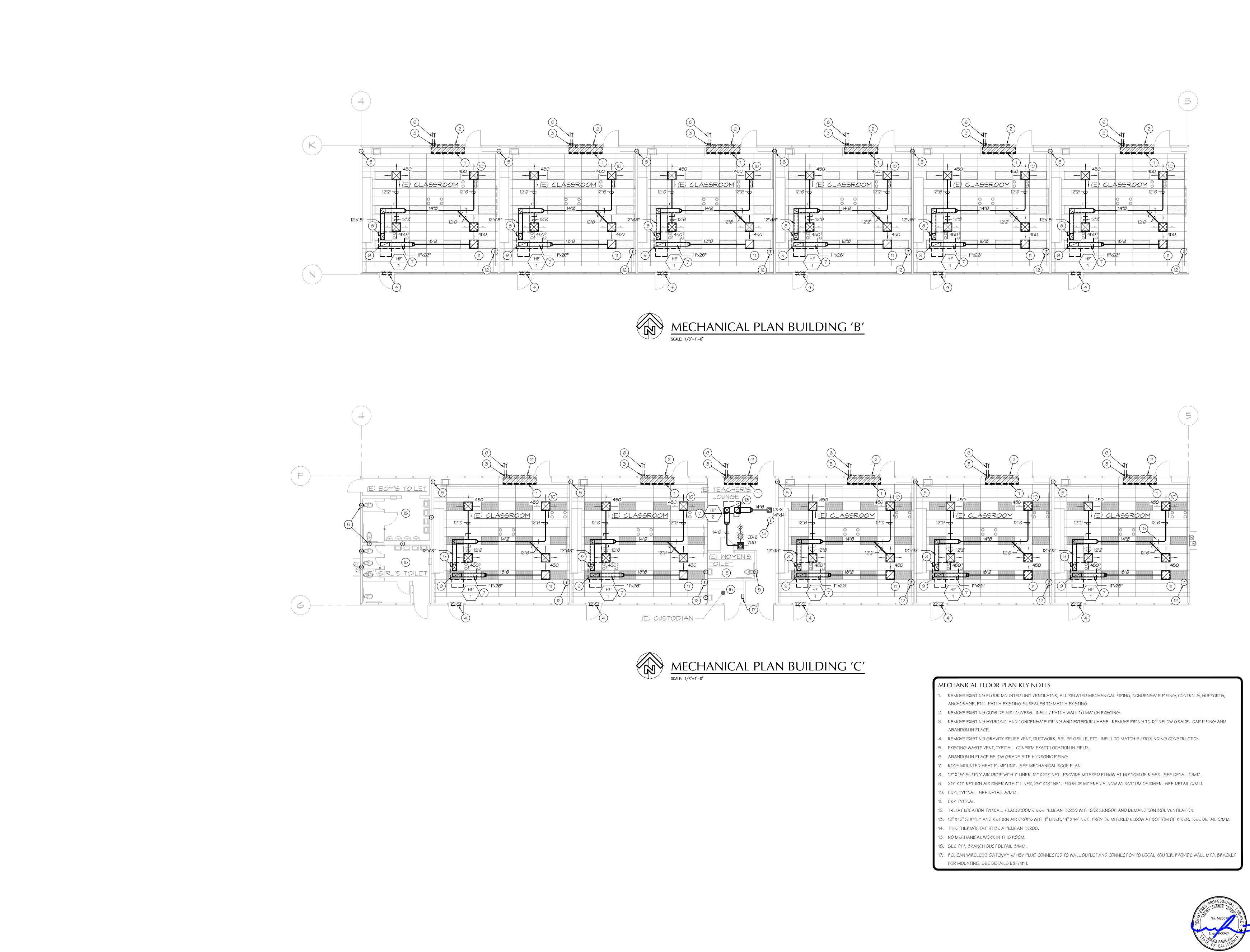


MECHANICAL PLAN BUILDING 'A'



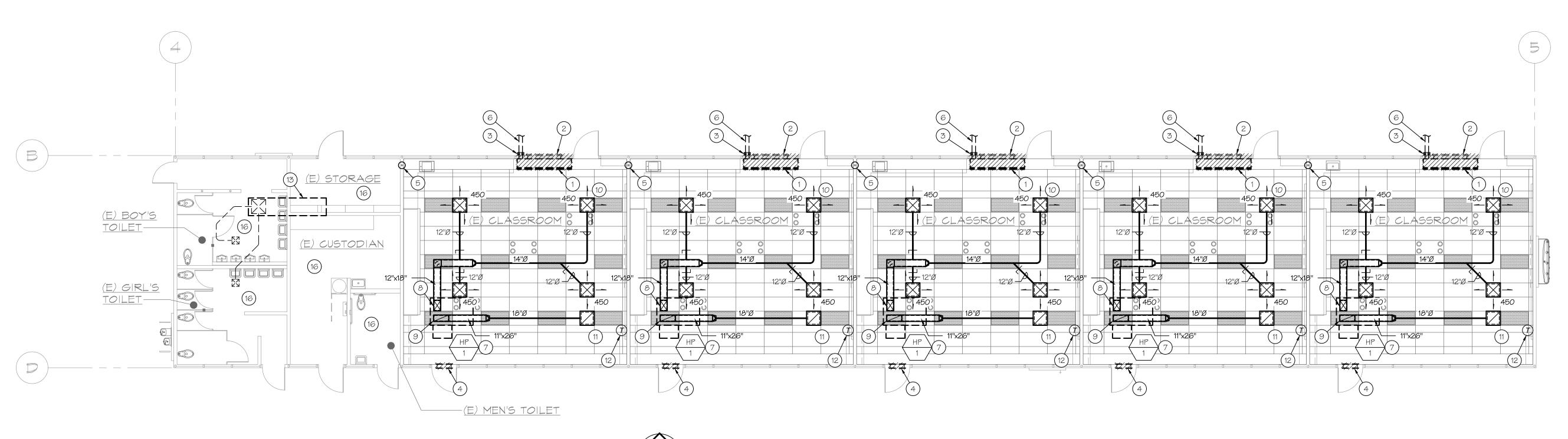


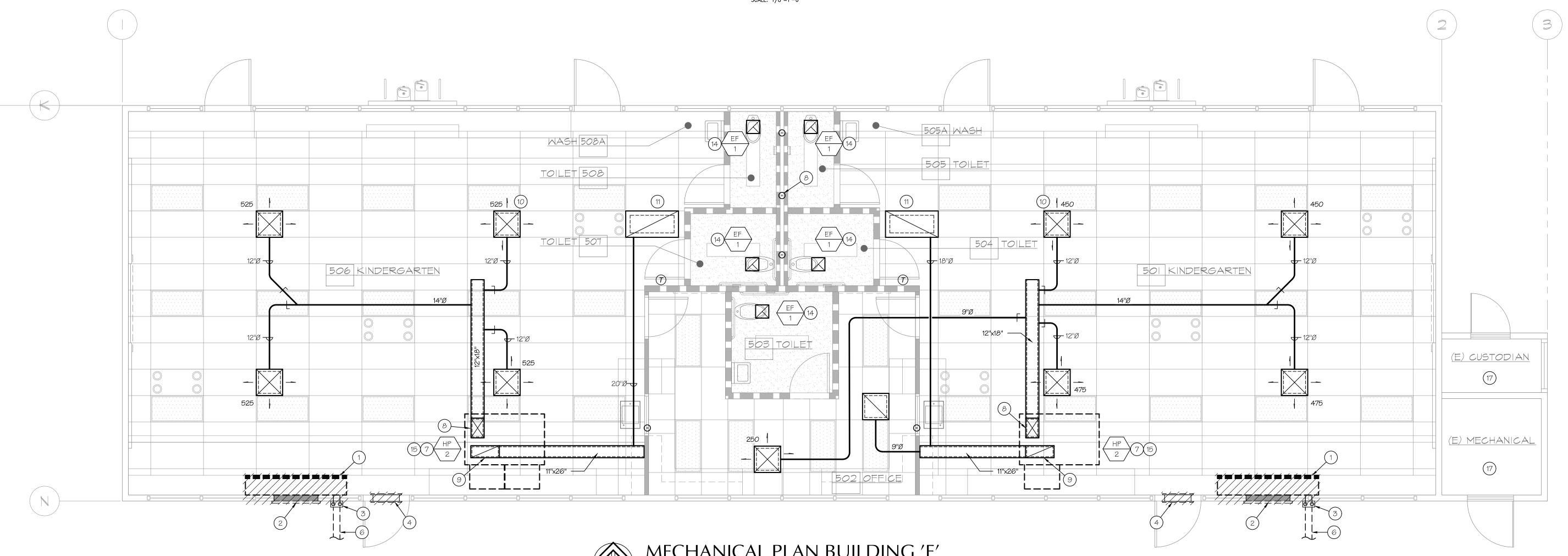




BASKIN MECHANICAL ENGINEERS 175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 21146 Plt: 12-13-22









MECHANICAL PLAN BUILDING 'D' SCALE: 1/8"=1'-0"



MECHANICAL FLOOR PLAN KEY NOTES.

- REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
- REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
- REMOVE EXISTING GRAVITY RELIEF VENT, DUCTWORK, RELIEF GRILLE, ETC. INFILL TO MATCH SURROUNDING CONSTRUCTION. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
- ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
- ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
- 2. 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 TYP. DETAIL D/M1.1.
- 13. EXISTING MAKE-UP-AIR UNIT SERVING TOILET ROOMS TO REMAIN. NO WORK.
- 14. DEMO EXISTING EXHAUST FAN AND INSTALL NEW EXHAUST FAN AND DISCHARGE DUCT. EXTEND TO CONNECTION AT EXISTING ROOF CAP.
- 15. THIS HP UNIT TO HAVE INTERLOCK WITH FIRE ALARM PANEL FOR AUTOMATIC SHUT-DOWN. SEE DETAIL H/M1.1.
- 16. NO MECHANICAL WORK IN THIS ROOM.









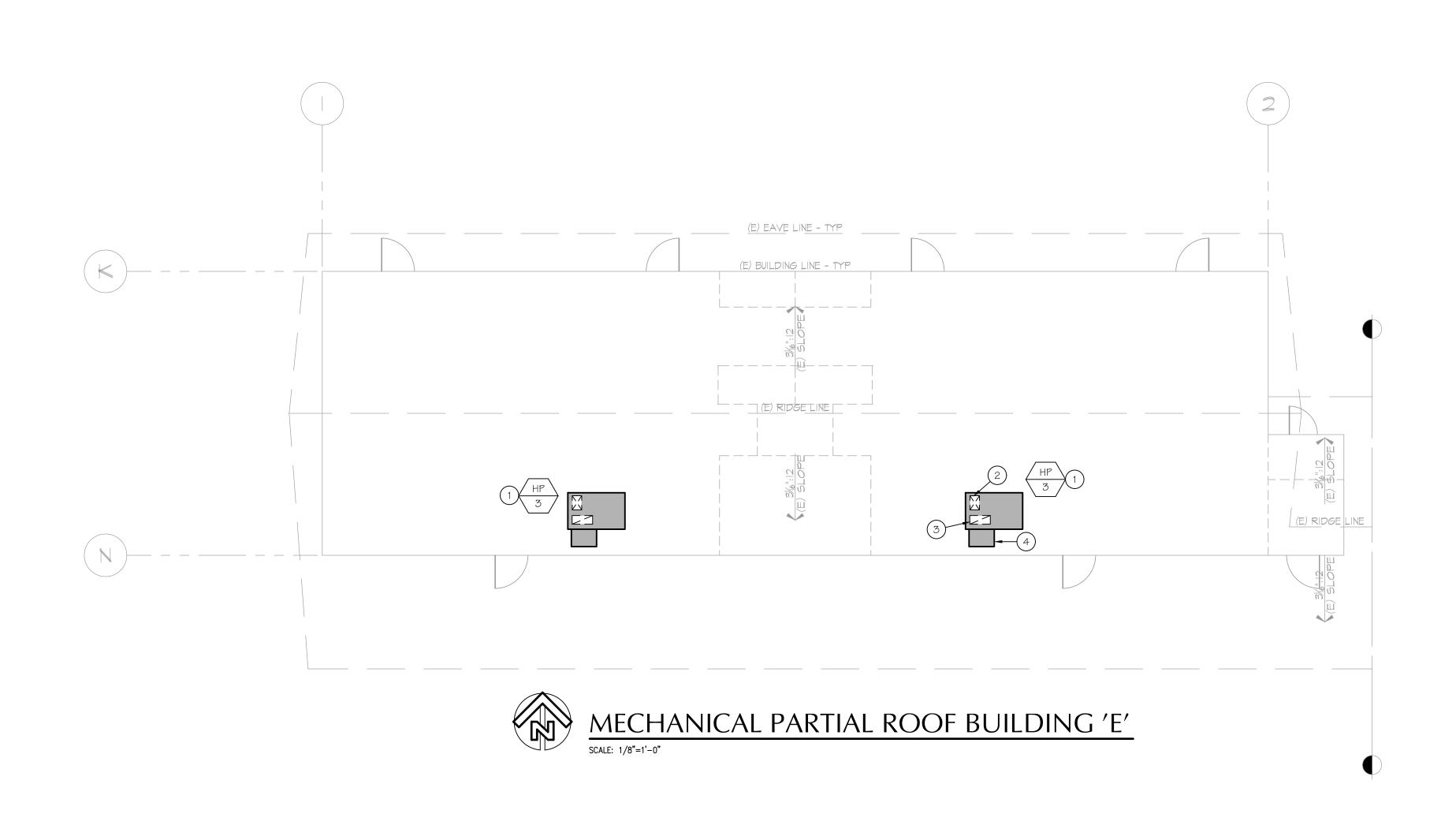












MECHANICAL ROOF PLAN KEY NOTES:

1. NEW HP UNIT ON SLOPED ROOF CURB. SEE DETAIL A/M1.2. TYPICAL. 2. 14" X 19" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 16" X 21" NET. TYPICAL.

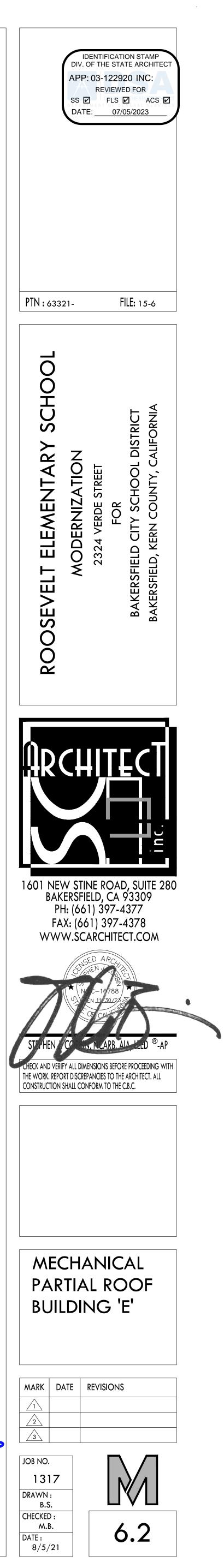
3. 26" X 11" RETURN DUCT RISER THRU ROOF WITH 1" LINER, 28" X 13" NET. TYPICAL.

4. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 200 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 500 CFM. TYPICAL.









STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CERTIFICA	TE OF COMPLIANCE				
	iment is used to demonstrate comp lined in <u>§140.4</u> , or <u>§141.0(b)2</u> for al	(The second state of the second second	cal syster	ms that are within th	e scoj
Project Na	ame:	Roosevelt E	lementar	y HVAC Upgrades Bld B	Repo
Project A	ddress:			2324 Verde Street	Date
A. GENE	RAL INFORMATION				
01 Proje	ect Location (city)		Bake	rsfield	04
02 Clim	ate Zone		1	13	05
03 Occi	pancy Types Within Project:				06
□ Offic	e (B)	🗌 Retail (N	I)		
Hote	l/ Motel Guest Rooms (R-1)	School (I	E)		
□ High	-Rise Residential (R-2/R-3)	🗌 Relocata	ble Class	Bldg (E)	
This table	ECT SCOPE e Includes mechanical systems or co or <u>§141.0(b)2</u> for alterations.	omponents that are	within t	he scope of the perm	nit app
	01			C)2
	Air System(s)			Wet System	Comp
\boxtimes	Heating Air System			Water Economize	r
\boxtimes	Cooling Air System			Pumps	
	Mechanical Controls			System Piping	
	Mechanical Controls (existing to or new)	remain, altered		Cooling Towers	
				Chillers	
		-		Boilers	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA

Mechanical Syste	ems						CALIFORNIA ENE	RGY COMMISSION
CERTIFICATE OF COMPLIA	NCE							NRCC-MCH-E
Project Name:	Ro	osevelt Elementary HV	AC Upgrades Bld B	eport Page:				(Page 4 of 16)
Project Address:			2324 Verde Street D	ate Prepared:				12/9/2022
and the second second second second	IMARY (DRY & WET SYSTEM Efficiency (other than Package		ioners (PTAC) and	Package Terminal	Heat Pumps (PTHP	·))		
01	02	03	04	05	06	07	08	09
			Heati	ng Mode	1		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/B-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1/B-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1/B-3	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
HP-1 / B4	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1

Mechanical Syste IRCC-MCH-E	ems						CALIFORNIA ENE	RGY COMMISSION
CERTIFICATE OF COMPLIA	NCE							NRCC-MCH-E
Project Name:	Ro	osevelt Elementary HV	AC Upgrades Bld B	leport Page:				(Page 4 of 16)
Project Address:			2324 Verde Street	Date Prepared:				12/9/2022
	IMARY (DRY & WET SYSTEM Efficiency (other than Package		ioners (PTAC) and	Package Terminal	Heat Pumps (PTHP))		
01	02	03	04	05	06	07	08	09
			Heat	ing 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/B-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1/B-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / B-3	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
HP-1 / B4	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1

This section does not apply to this project.

G. PUMPS

H. FAN SYSTEM	AS & AIR ECONO	OMIZERS							-		
				escriptive requirements fou be included in Table H.	ınd in <u>§140</u>	<u>4(c), §14</u>	<u>40.4(e)</u> a	and <u>§140.4(m)</u> for fan	systems. Fan systems servin	g only process loads are	
System Name:	HP-1 / B-1	HP-1/B-1 Economizer: Fixed lemperature Controls:		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Variable Air Volume				
01	02			04		05		06	07	08	
Fee Name or			i i	Mauinauna Danima Sumuli					Fan Power Pressure Drop A	rop Adjustment - Table 140.4-E	
Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Design Supply (CFM)	AITIOW	HP U	Jnit ²	Design HP	Device	Design Airflow through Device (CFM)	
SF	Supply		1	1800		BH	ΗP	0.66	NA	NA	
Total Syste	m Design Supply	Airflow (CFN	v1):	1800	1	ystem De (B)HP:	esign	0.66	Maximum System Fan Power (B)HP:		

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA

Mechanical	System	15					CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF C	OMPLIANC	E					NRCC-MCH-E
Project Name:			Roosevelt Elementary HVAC Up	grades Bld I	B Report Page:		(Page 7 of 16)
Project Address:			2324	Verde Stree	t Date Prepared:		12/9/2022
I. SYSTEM CON	ITROLS						
¹ FOOTNOTES: Gi have setback the	C - 25	wall heaters, gravity flo	or heaters, gravity room heate	rs, non-cen	tral electric heaters, f	ireplaces or decorative	gas appliances, wood stoves are not required to
*Notes: Control: EXCEPTION 1 to		equire a note in the spa	ace below explaining how comp	oliance is a	chieved. EX: system 1	: SA Temp Reset: Exem	pt because zones compliant with <u>§140.4(d)</u> ;
J. VENTILATIO	N AND IN	DOOR AIR QUALITY					
occupancies. Fo	r alteration	ns, only ventialtion syste		ope of the	permit application ne	ed to be documented i	al, high-rise residential and hotel/motel n this table. In lieu of this table, the required
01		Check the box if the	project is showing ventilation of	alculations	on the plans, or atta	ching the calculations	instead of completing this table.
	\boxtimes	Check this box if the	project included Nonresidentia	al or Hotel/	Motel spaces		
02		Check this box if the	project included new or altere	d high-rise	residential dwelling u	nits.	
03		Check the box if the	project is using natural ventilat	ion in any	nonresidential or hote	el/motel spaces to me	et required ventilation rates per §120.1(c)2.
Nonresidential	and Hotel/	Motel Ventilation Syst	ems				
	0	4	05			06	07
			Sustan Desire OA CENA		Contract Desile		Air Filtration per §120.1(c) and §141.0(b)2 ²
System Name		HP-1 / B-1	System Design OA CFM Airflow ¹	365	System Design Transfer Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))

							Hotel,	(Motel))
09	10	11	12	13	14	15		16
Mechanical Ventila	tion Required	per §120.1(c)	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>		1.1.4
Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶
Lecture / nestcacondary classroom	960			264.9	0	0	DCV	Provided per §120.1(d)4
Lecture/ postsecondary classroom	900			504.0	0	0	Occ Sensor	NA: Not required space type
Total System Required Min OA CFM				365	18	Ventilation for this S	ystem Complies?	Yes
	Mechanical Ventila Occupancy Type ⁴ Lecture/ postsecondary classroom	Mechanical Ventilation Required Occupancy Type ⁴ Conditioned Floor Area (ft ²) Lecture/ postsecondary classroom 960	Mechanical Ventilation Required per §120.1(c) Occupancy Type ⁴ Conditioned Floor Area (ft ²) Lecture/ postsecondary classroom 960	Mechanical Ventilation Required per \$120.1(c)3 3 Occupancy Type4 Conditioned Floor Area (ft ²) # of Shower heads/ toilets # of people5 Lecture/ postsecondary classroom 960 Image: Conditioned state of the conditing state of the conditioned state of the cond	Mechanical Ventilation Required per \$120.1(c)3 ³ Occupancy Type ⁴ Conditioned Floor Area (ft ²) # of Shower heads/ toilets # of people ⁵ Required Min OA CFM Lecture/ postsecondary classroom 960 Image: Conditioned state of the top of tool of too	Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. Occupancy Type ⁴ Conditioned Floor Area (ft ²) # of Shower heads/ toilets # of people5 Required Min OA CFM Required Min CFM Lecture/ postsecondary classroom 960 Image: Shower heads/ toilets 364.8 0	Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. Vent per \$120.1(c)4 Occupancy Type ⁴ Conditioned Floor Area (ft ²) # of heads/ toilets Required Min OA CFM Provided per Design CFM Lecture/ postsecondary classroom 960 Image: Second Seco	09 10 11 12 13 14 15 Image: constraint of the state

Registration Number:

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			NRCC-MCH-I
of the permit applica	tion and are	demonstrat	ing compliance using the prescriptive
Page:			(Page 1 of 16
repared:			12/9/2023
Total Conditioned Flo			4800
Total Unconditioned	Floor Area		0
# of Stories (Habitabl	e Above Gra	de)	1
Non-refrigerated War	ehouse (S)		
Healthcare Facility (I)	-		
Other (write in)			See Table J
cation and are demor	nstrating con	npliance usin	g the prescriptive path outlined in
	nstrating con		03
		Dry	03 System Components
	estrating con	Dry Air Econo	03 System Components mizer
		Dry Air Econo Electric R	03 System Components mizer esistance Heat
		Dry Air Econo Electric R Fan Syste	03 System Components mizer esistance Heat
cation and are demon		Dry Air Econo Electric R Fan Syste	03 System Components mizer esistance Heat ms : (existing to remain, altered or new)

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

Project Name:													
. open			Ro	osevelt	Elementary HV4	AC Upgr	ades Bld B Repo	ort Page					
Project Address:					1	2324 Ve	rde Street Date	Prepar	ed:				
C. COMPLIANCE	RESULTS												
Table C will indica NOT COMPLY" or '									10 C C C C C C C C C C C C C C C C C C C			itable b	y the us
01	02		03	_	04		05		06		07	-	
System Summary §110.1, §110.2, §140.4	D Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls <u>§110.2,</u> <u>§120.2,</u> <u>§140.4(f)</u>	AND	Ventilation §120.1	AND	Terminal Box Controls <u>§140.4(d)</u>	AND	Distribution <u>§120.3,</u> <u>§140.4(I)</u>	AND	Coolin <u>§11(</u>
(See Table F)	(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See 1
Yes ANI	D	AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND	
			Mandatory	Measu	res Complian	ce (See	Table Q for D	etails)				COMP	LIES

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

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Registration Provider: Energysoft Report Generated: 2022-12-09 14:58:26

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Registration Provider: Energysoft

Report Generated: 2022-12-09 14:58:26

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld B Report Page: 2324 Verde Street Date Prepared: Project Name: Project Address:

System Name:	HP-1 / B-2	Economi	izer:1	Fixed Temperature	Economi Control		Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type
01	02		03	04			05	06	07
Fan Name or				Maximum Design Suppl	Airflow				Fan Power Pressure D
Item Tag	Fan Funct	ion	Qty	(CFM)	, All IIOW	HP	⁹ Unit ²	Design HP	Device
SF	Supply	8	1	1800)	внр	0.66	NA
Total Syste	m Design Supply	Airflow (CFN	1):	1800	Total Sys (I	stem B)HP:	1.000	0.66	Maximum System F Power (B)HP:
System Name:	HP-1 / B-3	Economi	izer:1	Fixed Temperature	Economi Control		Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type
01	02		03	04			05	06	07
Fan Name or		-		Maximum Design Suppl	Airflow		-		Fan Power Pressure D
Item Tag	Fan Funct	ion	Qty	(CFM)	y All low	HP	⁹ Unit ²	Design HP	Device
SF	Supply		1	1800		1	внр	0.72	NA
Total Syste	m Design Supply	Airflow (CFN	1):	1800	Total Sys (I	stem B)HP:		0.72	Maximum System F Power (B)HP:
System Name:	HP-1/B4	Economi	izer:1	Fixed Temperature	Economi Control		Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type
01	02		03	04			05	06	07
Fan Name or				Maximum Design Suppl	Airflow				Fan Power Pressure D
Item Tag	Fan Funct	ion	Qty	(CFM)	y All low	HP	² Unit ²	Design HP	Device
SF	Supply	ji	1	1800		100	внр	0.72	NA
Total Syste	m Design Supply	Airflow (CFN	1):	1800	Total Sy:	stem B)HP:	STATES AND ADDRESS OF A 1	0.72	Maximum System F Power (B)HP:

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld B Report Page: 2324 Verde Street Date Prepared: Project Name: Project Address:

	04		05				06	
		System Desi			Sustan	Decise		Air Filtration
System Name	HP-1 / B-2	Airfl		365		Design Air CFM	0	Provid
08	09	10	11	12	13	14	15	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>	
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Se <u>§120</u>
Classroom B2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV
Classicolii b2	Lecture/ possecondary classicom	380			504.8	Ŭ	0	Occ Ser
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Compl
	04		05			<u> </u>	06	
		System Desi	σn ΟΔ CEM		Sustem	Design		Air Filtration
System Name	HP-1 / B-3	Airfl	7.20	365		Air CFM	0	Provid
08	09	10	11	12	13	14	15	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>	
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Se <u>§120</u>
Classroom B3		960			364.8	0	0	DCV
Classicolli B3	Lecture/ postsecondary classroom	300			504.8	U	U	Occ Ser
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Compl

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

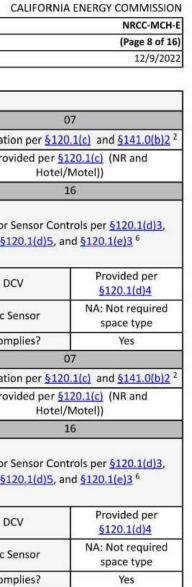
Registration Date/Time:

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 2 of 16 12/9/2022 user. If this table says "DOES oling Towers 110.2(e)2 **Compliance Results** e Table M) COMPLIES

Registration Provider: Energysoft Report Generated: 2022-12-09 14:58:26

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 5 of 16) 12/9/2022 Variable Air Volume 08 Drop Adjustment - Table 140.4-B Design Airflow through Device (CFM) Variable Air Volume vpe: 08 Drop Adjustment - Table 140.4-B Design Airflow through Device (CFM) Variable Air Volume ype: 08 Drop Adjustment - Table 140.4-B Design Airflow through Device (CFM)

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STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E CERTIFICATE OF COMPLIANCE

Project Name:

Project Address:

Roosevelt Elementary HVAC Upgrades Bld B Report Page: 2324 Verde Street Date Prepared CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 3 of 16)

12/9/20

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) his table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in <u>§110.1</u> and <u>§110.2(a)</u> and prescriptive requirements found in <u>§140.4(a)</u>. <u>140.4(b)</u> and <u>§140.4(k)</u> or <u>§141.0(b)2</u> for alterations. Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) 05 06 07 08 09 10 11 01 03 04 Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b) Heating Output^{2,3} Cooling Output^{2,3} Load Calculations^{3,} Smallest Size Equipment Type per Tables 110.2 / Titl Name or Item quipment Category per Tota Available¹ Total Supp. Tables 110.2
 Total
 Sensible

 Rated
 Heating
 Cooling

 (kBtu/h)
 Load
 Load

 (kBtu/h)
 (kBtu/h)
 (kBtu/h)
 Tag 20 Sensible §140.4(a) Per Design Rated Heating (kBtu/h) Output NA: Load 54.86 36.18 55.65 46.32 59.29 62.08 HP-1/B-1 70.44 Unitary Heat Pumps Air-cooled, pkg (3 phase) Controls NA: Load HP-1 / B-2 54.86 36.18 53.92 46.32 56.45 59.57 Unitary Heat Pumps Air-cooled, pkg (3 phase) 70.44 Controls NA: Load 44.73 HP-1/B-3 52.26 56.19 59.79 Unitary AC/ Condensers AC, air-cooled pkg (3 phase) 49 49 Controls NA: Load 52.26 44.73 HP-1 / B4 **Jnitary AC/ Condensers** 56.19 59.79 AC, air-cooled pkg (3 phase) 49 49 Controls NA: Load 52.29 44.73 HP-1/B-5 Unitary AC/ Condensers AC, air-cooled pkg (3 phase) 49 49 59.04 61.39 Controls ¹FOOTNOTES: 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.

²It 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:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Schema Version: rev 20200601

1800

1800

Registration Provider: Energysoft Report Generated: 2022-12-09 14:58:26

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

SF

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Roosevelt Elementary HVAC Upgrades Bld B Report Page: (Page 6 of 16) 2324 Verde Street Date Prepared: Project Address: 12/9/202 H. FAN SYSTEMS & AIR ECONOMIZERS Economizer Designed per §140.4(e) and System HP-1 / B-5 **Fixed Temperature** System Fan Type: Variable Air Volume Economizer:1 Name: Controls: (m) 01 02 07 08 03 04 05 06 Fan Power Pressure Drop Adjustment - Table 140.4-E Maximum Design Supply Airflow an Name or Fan Function HP Unit² Design HP Design Airflow through Item Tag (CFM) Device Device (CFM)

BHP

Total System Design

(B)HP:

0.72

0.72

Maximum System Fan

Power (B)HP:

Registration Date/Time:

Report Version: 2019.1.003

¹ FOOTNOTES: Computer room economizers must meet requirements of <u>§140.9(a)</u> 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.

1

Supply

Total System Design Supply Airflow (CFM):

s table is used to dem ace conditioning syster	NUMBER OF STREET, STREE	nce with mande	atory controls in <mark>§110.2</mark> and	<u>§120.2</u> and p	rescriptive cont	trols in <u>§140.4(f)</u> and (n) or	requirements in	§ <u>141.0(b)2E</u> for altered
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats <u>§110.2(b)</u> & (c) ¹ , <u>§120.2(a)or</u> <u>§141.0(b)2E</u>	Shut-Off Controls §120.2(e)	Isolation Zone Controls <u>§120.2(g)</u>	Demand Response <u>§110.12</u> and <u>§120.2(b)</u>	Supply Air Temp, Reset §140.4(f)	Window Interlocks per <u>§140.4(n)</u>
HP-1 / B-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / B-2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / B-3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / B4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / B-5	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

Registration Provider: Energysoft Report Generated: 2022-12-09 14:58:26

CALIFORNIA ENERGY COMMISSION

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E

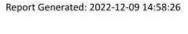
CERTIFICATE OF	(2·것은 4·24) (2·24) (2·24)				-				NRCC-MCH	
Project Name: Roosevelt Elementary HVAC Upgrades Bld I										
Project Address			2324	Verde Stree	t Date Prep	ared:			12/9/20	
I. VENTILATIO	ON AND INDOOR AIR QUALITY			I						
04		05			06			07		
		System Design OA CFM Airflow ¹		365	Furtan	Decise		Air Filtration per §120.1(c) and §141.0(b).		
System Name	HP-1 / B4				Transfer	Design 0 Air CFM	0	Provided per <u>§120.1(c)</u> (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. V	/ent per <u>§120.1(c)4</u>			
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶		
Classroom B4	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	Required Min OA CFM				18	Ventilation for this	System Complies? Yes		
	04 05						06	07		
System Name		System Design OA CFM Airflow ¹			System	Design	_	Air Filtration per §120).1(c) and <u>§141.0(b)</u> 2	
	HP-1 / B-5			365	System Design Transfer Air CFM		0	Provided per <u>§120.1(c)</u> (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 <u>§120.1(c)4</u>				
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> §120.1(d)5, and <u>§120.1(e)3</u> ⁶		
Classroom B5	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4	
		900						Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM					18	Vontilation for this	System Complies? Yes		

Registration Provider: Energysoft

Report Generated: 2022-12-09 14:58:26 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601 Registration Provider: Energysoft





175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22





STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld B Report Pa Project Name: Project Address: 2324 Verde Street Date Prep J. VENTILATION AND INDOOR AIR QUALITY ² Air filtration requirements apply to the following three system types per <u>§120.1(c)1A</u> : space condition ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems outside air to occupiable space. ³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code in 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 ac ⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurp and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and load 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 Duct Leakage Sealing The answers to the questions below apply to the following duct systems: HP-1 / B-1 11 No The scope of the project includes only duct systems serving health Duct system provides conditioned air to an occupiable space for a Yes 12 Yes The space conditioning system serves less than 5,000 ft² of condition 13 No The combined surface area of the ducts in the following locations i 14 Outdoors In a space directly under a roof that has a U-factor equirements of §140.3(a)1B or if the roof has fixe In an unconditioned crawl space **Registration Number: Registration Date/Time:**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E CERTIFICATE OF COMPLIANCE

Project Name: Roosevelt Elementary HVAC Upgrades Bld B Report Project Address: 2324 Verde Stree

L. DISTRIBUTION	N (DUCTWOR	K and PIPING)	
	25		In other unconditioned spaces
15		The scope of	the project includes extending an existing duct system, w
16			the project includes an existing duct system that is docur ic testing in accordance with procedures in the Reference
17	Yes	Duct system s	shall be sealed in acordance with the California Mechanic
M. COOLING TO	WERS		
This section does	not apply to th	is project.	

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in previous tables of this document. If any sele These documents must be provided to the building inspector during construction and can be found online https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Docum Form/Title

NRCI-MCH-01-E - Must be submitted for all buildings

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

	C-MCH-
e: (Page :	10 of 16
12 12	2/9/202
11	
ing systems utilizing ducts to supply air to occupiable space; supply-only ns including heat recovery and energy recovery ventilation systems providi	ng
e requirement takes precedence.	
accordance with the California Building Code.	
sensing controls to also have occupancy sensing zone controls for ventilation	ion.
pose rooms less than 1,000 ft ² , classrooms, conference rooms, restrooms, o	aisles
pose rooms less than 1,000 ft ² , classrooms, conference rooms, restrooms, o ding and unloading zones, unless excepted by <u>§130.1(c)</u> .	aisles
	aisies
ding and unloading zones, unless excepted by <u>§130.1(c)</u> .	aisles
ding and unloading zones, unless excepted by <u>§130.1(c)</u> .	aisles
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . nd prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing.	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . and prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . Ind prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . and prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities constant volume, single zone, space-conditioning system.	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . and prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities constant volume, single zone, space-conditioning system. oned floor area.	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . Ind prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities constant volume, single zone, space-conditioning system. oned floor area. s more than 25% of the total surface area of the entire duct system:	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . and prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities constant volume, single zone, space-conditioning system. oned floor area. Is more than 25% of the total surface area of the entire duct system: or greater than the u-factor of the ceiling, or if the roof does not meet the	
ding and unloading zones, unless excepted by <u>§130.1(c)</u> . Ind prescriptive requirements found in <u>§140.4(l)</u> for duct leakage testing. Duct leakage testing triggered for these systems? No care facilities constant volume, single zone, space-conditioning system. oned floor area. s more than 25% of the total surface area of the entire duct system:	

CERTIFICATE OF COM	IPLIANCE					
Project Name:			Roosevelt Elementary HV	AC Upgrades Bld B Report Page		
Project Address:	roject Address: 2324 Verde Street Date Prepared:					
L. DISTRIBUTION	(DUCTWOR	K and PIPING)				
			In other unconditione	ed spaces		
15		The scope of t	he project includes exter	ding an existing duct system,	which is constructed, insulated or sealed with asb	
16					umented to have been previously sealed as confirn ce Nonresidential Appendix NA2.	
17	Yes	Duct system sl	hall be sealed in acordan	ce with the California Mechar	nical Code	
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1 / B-2	Duct leakage testing triggered for these system	
11	No	The scope of t	he project includes only	duct systems serving healthca	ire facilities	
12	Yes	Duct system p	rovides conditioned air to	o an occupiable space for a co	onstant volume, single zone, space-conditioning sys	
13	Yes	The space con	ditioning system serves l	ess than 5,000 ft ² of condition	ned floor area.	
14	No	The combined	surface area of the duct	s in the following locations is	more than 25% of the total surface area of the enti	
			Outdoors			
					greater than the u-factor of the ceiling, or if the ro d vents or openings to the outside/ unconditioned	
			In an unconditioned o	rawl space		
			In other unconditione	ed spaces		
15		The scope of t	he project includes exter	ding an existing duct system,	which is constructed, insulated or sealed with asbe	
16					umented to have been previously sealed as confirn ce Nonresidential Appendix NA2.	
17	Yes	Duct system sl	hall be sealed in acordan	ce with the California Mechar	nical Code	
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1/B-3	Duct leakage testing triggered for these system	
11	No	The scope of t	he project includes only	duct systems serving healthca	ire facilities	
12	Yes	Duct system p	rovides conditioned air to	o an occupiable space for a co	onstant volume, single zone, space-conditioning sys	
13	Yes	The space con	ditioning system serves l	ess than 5,000 ft ² of condition	ned floor area.	
14	No	The combined	surface area of the duct	s in the following locations is	more than 25% of the total surface area of the enti	
			Outdoors			
					greater than the u-factor of the ceiling, or if the ro d vents or openings to the outside/ unconditioned	
			In an unconditioned o	rawl space		
5		10 .				
Registration Numbe	r:			Registration Date/Tim	e: F	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Project Address:

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

		NRCC-MCH-
		(Page 13 of 16
d:		12/9/202
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which is constructed, insulated or se	aled with asbestos.	
umented to have been previously sea ce Nonresidential Appendix NA2.	aled as confirmed through	field verification
ical Code		
	R.	
	volain why in Table F Addit	tional Remarks
ection needs to be changed, please e		
ection needs to be changed, please e. e at	prum why in rubic L Addi	
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Registration Provider: Energysoft

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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 it 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/ Systems/Spaces To Be Field Form/Title Verified NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in Carrier 50GCQM06; Carrier 50GCQM06; Carrier conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; NRCA-MCH-05-A - Air Economizer Controls Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand Carrier 50GCQM06; Carrier controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon 50GCQM06; Carrier dioxide (CO₂) concentration setpoints. 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; NRCA-MCH-11-A Automatic Demand Shed Controls Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; NRCA-MCH-12-A FDD for Packaged Direct Expansion Units Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier

Roosevelt Elementary HVAC Upgrades Bld B Report Page: 2324 Verde Street Date Prepared:

Registration Number:

STATE OF CALIFORNIA **Mechanical Systems**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Report Version: 2019.1.003

Schema Version: rev 20200601

Schema Version: rev 20200601

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TIFIC	CATE OF COMPLIANCE	NRCC-MCH-E
ject l	Name: Roosevelt Elementary	HVAC Upgrades Bld B Report Page: (Page 16 of 16)
ject /	Address:	2324 Verde Street Date Prepared: 12/9/2022
	MENTATION AUTHOR'S DECLARATION STATEMENT	
ertif	y that this Certificate of Compliance documentation is acc	Irate and complete.
101.04	itation Author Name: askin	Documentation Author Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.09 14:59:17-08'00'
ipany skin l	: Mechanical Engineers	Signature Date: 2022-12-09
ress: 5 Ful	ton St.	CEA/ HERS Certification Identification (if applicable): M26578
	e/Zip: CA 93721	Phone: 5592370376
SPO	NSIBLE PERSON'S DECLARATION STATEMENT	
tify ti	he 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 r	sponsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3.	The energy features and performance specifications, materials, components, a of Title 24, Part 1 and Part 6 of the California Code of Regulations.	nd manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements
4.	The building design features or system design features identified on this Certif plans and specifications submitted to the enforcement agency for approval wi	cate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, h this building permit application.
5.		Il be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable mpliance is required to be included with the documentation the builder provides to the building owner at occupancy.
oonsil	ble Designer Name:	Responsible Designer Signature: Designer Signature: Designer Mark Baskin, P.E.
rk Ba	askin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.09 14:59:34-08'00'
npany		Date Signed:
kin l	Mechanical Engineers	2022-12-09
ress:		License:
5 Ful	ton	M26578
/State	a/7in:	Phone

Responsible Designer Name: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E
Company:	Date Signed:
Baskin Mechanical Engineers	2022-12-09
Address:	License:
175 Fulton	M26578
City/State/Zip:	Phone:
Fresno CA 93721	(559) 237-0376

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

(Page 11 o	CH-E
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12/9/	2022
with asbestos.	
as confirmed through field verificat	ion
ese systems? No	
ioning system.	
of the entire duct system:	
r if the roof does not meet the nditioned spaces	
with asbestos.	
as confirmed through field verificat	ion
X	
ese systems? No	
ioning system.	
of the entire duct system:	
r if the roof does not meet the nditioned spaces	

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CERTIFICATE OF COM	PLIANCE					NRCC-MCH
Project Name:			Roosevelt Elementary HVAC Up	grades Bld B Report Pag	e:	(Page 12 of 1
Project Address:			2324	Verde Street Date Prepa	red:	12/9/202
				1		
L. DISTRIBUTION	DUCTWOR	K and PIPING)				
	•		In other unconditioned spa	ces		
15		The scope of t			, which is constructed, insulated or sealed with asbestos.	
16		The scope of t	he project includes an existing	duct system that is do	cumented to have been previously sealed as confirmed thron nce Nonresidential Appendix NA2.	ough field verification
17	Yes		hall be sealed in acordance wit			
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1 / B4	Duct leakage testing triggered for these systems?	No
11	No	The scope of t	he project includes only duct s	ystems serving health	are facilities	
12	Yes	Duct system p	rovides conditioned air to an o	ccupiable space for a	constant volume, single zone, space-conditioning system.	
13	Yes	The space con	ditioning system serves less th	an 5,000 ft ² of conditi	oned floor area.	
14	No	The combined	surface area of the ducts in th	e following locations i	s more than 25% of the total surface area of the entire duct	system:
			Outdoors			
					r greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces	not meet the
			In an unconditioned crawl	space		
			In other unconditioned spa	ces		
15		The scope of t	he project includes extending	an existing duct systen	, which is constructed, insulated or sealed with asbestos.	
16					cumented to have been previously sealed as confirmed thron nce Nonresidential Appendix NA2.	ough field verification
17	Yes	Duct system s	hall be sealed in acordance wit	h the California Mecha	nical Code	
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1 / B-5	Duct leakage testing triggered for these systems?	No
11	No	12	he project includes only duct s	- 15c		
12	Yes	Duct system p	rovides conditioned air to an o	ccupiable space for a	constant volume, single zone, space-conditioning system.	
13	Yes	The space con	ditioning system serves less th	an 5,000 ft ² of conditi	oned floor area.	
14	No	The combined	surface area of the ducts in th	e following locations i	s more than 25% of the total surface area of the entire duct	system:
			Outdoors			
					r greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces	not meet the
			In an unconditioned crawl	space		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

Project Name:	Roosevelt Elementary HVAC Up	ogrades Bld B Report Page:			(Page 15 of 16)	
Project Address:	2324 Verde Street Date Prepared:				12/9/2022	
O. DECLARATION OF REQUIRED CERTIFIC	CATES OF ACCEPTANCE					
Selections have been made based on informa These documents must be provided to the bu https://www.energy.ca.gov/title24/2019star	ilding inspector during construction	and can be found online at		able E Addition	nal Remarks.	
	Form/Title		Systems/Spaces To Be Field	Field In:	spector	
	Toriny fide		Verified	Pass	Fail	
NRCA-MCH-16-A Supply Air Temperature Reset Controls			Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;			
NRCA-MCH-18-A Energy Management Contr	ol Systems		Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;			
P. DECLARATION OF REQUIRED CERTIFIC	CATES OF VERIFICATION					
There are no NRCV forms required for this pr	oject.					
Q. MANDATORY MEASURES DOCUMEN	TATION LOCATION					
This table is used to indicate where mandato	ory measures are documented in the	plan set or construction documen	tation.			
	01		02	2		
Compliance with Mandatory Measures docu Mandatory Measures Note Block	mented through MCH	Yes	M-Sh	M-Sheets		

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Schema Version: rev 20200601

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

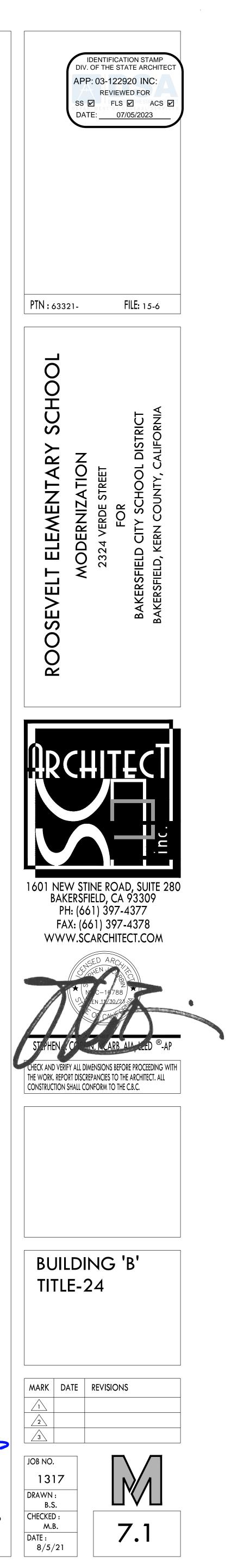
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NRCC-MCH-E







STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the scope of t path outlined in <u>§140.4</u>, or <u>§141.0(b)2</u> for alterations. Project Name: Roosevelt Elementary HVAC Upgrades Bld C Report Pa Project Address: 2324 Verde Street Date Prep A. GENERAL INFORMATION 01 Project Location (city) Bakersfield 2 Climate Zone Occupancy Types Within Project: Office (B) Retail (M) No Hotel/ Motel Guest Rooms (R-1) School (E) High-Rise Residential (R-2/R-3) Relocatable Class Bldg (E) × o B. PROJECT SCOPE This table Includes mechanical systems or components that are within the scope of the permit application §140.4, or §141.0(b)2 for alterations. 01 02 Air System(s) Wet System Compone Heating Air System Water Economizer Cooling Air System Pumps System Piping Mechanical Controls Mechanical Controls (existing to remain, altered Cooling Towers or new) Chillers Boilers

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

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STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E CERTIFICATE OF COMPLIANCE

Project Name: Roosevelt Elementary HVAC Upgrades Bld C Report Page: Project Address: 2324 Verde Street Date Prepared:

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	ĺ
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	
HP-1/C-1	<65,000		HSPF	7.7	8.3	SEER	Ī
HP-1 / C-2	<65,000		HSPF	7.7	8.3	SEER	ſ
HP-1/C-3	<65,000		AFUE	0.80	0.81	SEER	ſ
HP-1 / C4	<65,000		AFUE	0.80	0.81	SEER	ſ
HP-1/C-5	<65,000		AFUE	0.80	0.81	SEER	ſ
HP-2 / Work room	<65,000		HSPF	7.7	8.2	SEER	Ĩ

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

NRCC-MCH-E		
CERTIFICATE OF COMPLIANCE		
Project Name:	Roosevelt Elementary HVAC Upgrades Bld C	Report Page
Project Address:	2324 Verde Street	Date Prepa

I SYSTEM CONTROLS

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b) & (c) ¹ , §120.2(a)or §141.0(b)2E	Shut-Off Controls <u>§120.2(e)</u>	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per <u>§140.4(n)</u>
HP-1/C-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / C-2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / C-3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / C4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / C-5	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-2 / Work room	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

EXCEPTION 1 to §140.4(f)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION NIDCO MACULE

Registration Provider: Energysoft

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CALIFORNIA ENERGY COMMISSION

Required per Design Efficiency

16.2

16.2

16.1

16.1

16.1

14.5

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Cooling Mode

Minimum

Efficiency

Tables 110.2 /

Title 20

13.0

13.0

13.0

13.0

13.0

13.0

NRCC-MCH-E

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			NRCC-MCH-E
f the permit app	lication and are	demonstratin	g compliance using the prescriptive
ge:			(Page 1 of 18)
ared:			12/9/2022
tal Conditioned	Floor Area		6210
tal Uncondition	ed Floor Area		0
of Stories (Habit	able Above Gra	de)	1
on-refrigerated \	Warehouse (S)		
althcare Facility	y (I)		
her (write in)			See Table J
tion and are der	nonstrating con	npliance using	the prescriptive path outlined in
			03
nts		Dry St	ystem Components
		Air Econom	izer
		Electric Res	istance Heat
		Fan System	s
		Ductwork (existing to remain, altered or new)
	52	Manthattan	

	Fan Systems
	Ductwork (existing to remain, altered or new)
	Ventilation
	Zonal Systems/ Terminal Boxes
12	

i 06 07 08 09

STATE OF CALIFORNIA Mechanical Systems

CERTIFICATE O	FCOM	PLIANCE												
Project Name:				Roc	osevelt	Elementary HV4	C Upgra	ades Bld C Repo	C Report Page:					
Project Addres	s:						2324 Ve	rde Street Date	Prepar	ed:				
C. COMPLIA	NCE R	ESULTS			-							0		
		50 C 25		out into the co ional Conditior									itable b	y the use
01	91	02		03		04		05		06		07		C
						The state of the second s	6		1		0			
System Summary <u>§110.1</u> , <u>§110.2</u> , <u>§140.4</u>	AND	Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers <u>§140.4(c)</u> , <u>§140.4(e)</u>	AND	System Controls <u>§110.2</u> , <u>§120.2</u> , <u>§140.4(f)</u>	AND	Ventilation <u>§120.1</u>	AND	Terminal Box Controls <u>§140.4(d)</u>	AND	Distribution <u>§120.3</u> , <u>§140.4(I)</u>	AND	
Summary <u>§110.1,</u> <u>§110.2</u> ,	AND	1007-201 07 800 x8023 1500		Economizers §140.4(c),	AND	Controls <u>§110.2</u> , <u>§120.2</u> ,	AND	(4) 经21月9日 (1945年4月1日)	AND	Controls	AND	<u>§120.3</u> ,	AND	Cooling <u>§110</u> (See Ta
Summary <u>§110.1,</u> <u>§110.2,</u> <u>§140.4</u>	AND	<u>§140.4(k)</u>		Economizers <u>§140.4(c)</u> , <u>§140.4(e)</u>	AND	Controls <u>§110.2</u> , <u>§120.2</u> , <u>§140.4(f)</u>	AND	<u>§120.1</u>	AND	Controls <u>§140.4(d)</u>	AND	<u>§120.3,</u> <u>§140.4(I)</u>	AND	<u>§110</u>

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: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003

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STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld C Report Page: 2324 Verde Street Date Prepared: Project Name: Project Address:

			prescriptive requirements fou o be included in Table H.	und in <u>§140.4</u>	4(c), <u>§</u> 1	<u>40.4(e)</u> ar	nd <u>§140.4(m)</u> for fan	systems. Fan systems servin	g only process loads are
System Name:	HP-1/C-1	Economizer:1	Fixed Temperature	Economi Control	Sec. 1	Designed	l per <u>§140.4(e)</u> and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	04		05 06		07	08
Fan Name or			Maximum Design Suppl	Maximum Dosign Supply Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on Qty	(CFM)	Maximum Design Supply Airflow (CFM)		Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	1800		HP	0.66	NA	N/A.
Total Syste	m Design Supply	Airflow (CFM):	1800	Total Sy (stem D B)HP:	Design	0.66	Maximum System Fan Power (B)HP:	
System Name:	HP-1/C-2	Economizer:1	Fixed Temperature	Fixed Temperature Controls				Systern Fan Type:	Variable Air Volume
01	02	03	04	÷ 1	(05	06	07	08
Fan Name or			Maximum Daciga Suppl	u Airflouu			5 5 M	Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on Qty	Maximum Design Suppl (CFM)	y Annow	HP	Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP		0.66	NA.	NA
Total Syste	m Design Supply	Airflow (CFM):	1800		System Design (B)HP: 0.66		0.66	Maximum System Fan Power (B)HP:	
System Name:	HP-1/C-3	Economizer:1	Fixed Temperature	Economi Control	23	Designed	l per <u>§140.4(e)</u> and (m)	Systern Fan Type:	Variable Air Volume
01	02	03	04		(05	06	07	08
Fan Name or			Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on Qty	(CFM)	Maximum Design Supply Airflow (CFM)		Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		В	HP	0.72	NA	NA
Total Syste	m Design Supply	Airflow (CFM):	1800		I System Design (B)HP:		0.72	Maximum System Fan Power (B)HP:	

Roosevelt Elementary HVAC Upgrades Bld C Report Page:

outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

Mechanical Ventilation Required per §120.1(c)3 3

960

Check this box if the project included Nonresidential or Hotel/Motel spaces

System Design OA CFM

10 11

ystem Design OA CFM

Airflow¹

onditioned # of Shower # of

Airflow¹

Check this box if the project included new or altered high-rise residential dwelling units.

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

01

02

System Name

08

Space Name

ot item Tag

Mechanical Systems

CERTIFICATE OF COMPLIANCE

I. VENTILATION AND INDOOR AIR QUALITY

onresidential and Hotel/ Motel Ventilation Systems 04

HP-1 / C-1

09

Occupancy Type⁴

HP-1/C-2

Classroom C1 Lecture/ postsecondary classroom

17 Total System Required Min OA CFM

04

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

System Design

12 13 14

 Floor Area
 heads/
 # of
 Required
 Required
 Provided per Design

 (ft²)
 toilets
 people⁵
 CFM
 Min CFM
 CFM

364.8

365

System Design

Transfer Air CFM

18

Transfer Air CFM

Exh. Vent per <u>§120.1(c)4</u>

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

2324 Verde Street Date Prepared

365

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*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);

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Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-12-09 15:18:10

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

stem Name

Registration Date/Time:

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10 11 12 13 14

Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 2 of 18) 12/9/202 user. If this table says "DOES 08 09 ling Towers 10.2(e)2 Compliance Result Table M) _____ COMPLIES

Project Address:		2324 Verde S	treet Date Prepa	red:						12/9/20
E HWAC SYSTEM	A SUMMARY (DRY & WET	CVCTEMC)								
This table is used	· · · · · · · · · · · · · · · · · · ·	for mechanical equipment with mandator	y requirements	found in <u>§11</u>	0.1 and <u>§1</u>	<u>10.2(a)</u> and	l prescriptive	requireme	ents found ir	<u>§140.4(</u>
		onditioners, condensers, heat pumps, VRI		· · · ·		07	00	00	10	44
01	02	03	04	05	06	07	08	09	10	11
					Equipme		er Mechanica §140.4 (a&b)		(kBtu/h)	
	Equipment Category per Tables 110.2		Smallest Size Available ¹ <u>§140.4(a)</u>	Heating Output ^{2,3}			Cooling C	Output ^{2,3}	Load Calculations ³	
Name or Item Tag		Equipment Type per Tables 110.2 / Title 20		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 Sensib Coolin Load (kBtu/l
HP-1 / C-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.65	46.32	59.29	62.08
HP-1 / C-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	53.92	46.32	56.45	59.57
HP-1/C-3	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.26	44.73	56.19	59.79
HP-1 / C4	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.26	44.73	56.19	59.79
HP-1/C-5	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.29	44.73	59.04	61.39
HP-2 / Work room	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	32.41	22.38	18.43	22.31	17.63	48.54	55.29

Registration Date/Time:

²It 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 <u>§140.4(b)</u>.

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STATE OF CALIFORNIA **Mechanical Systems**

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CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld C Report Page: 2324 Verde Street Date Prepared: Project Name: Project Address:

System Name:	HP-1 / C4	Economizer:1	Fixed Temperature	Economize Controls:			System Fan Type:	Variable Air Volume
01	02	03	04	Ĩ	05 06		07	08
Fan Name or			Maximum Design Supply	Airflow			Fan Power Pressure Drop /	Adjustment - Table 140.4-
Item Tag	Fan Function	n Qty	(CFM)	Airnow	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		внр	0.72	NA	NA
Total Sys	tem Design Supply Ai	rflow (CFM):	1800	Total Syste (B)	1.	0.72	Maximum System Fan Power (B)HP:	
System Name:	HP-1 / C-5	Economizer:1	Fixed Temperature	Economize Controls:	r Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Variable Air Volume
01	02	03	04		05	06	07	08
Tan Managan			Manimum Desime Complex Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-
Fan Name or Item Tag	Fan Functior	n Qty	Maximum Design Supply (CFM)	AITTIOW	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP		0.72	NA	NA
Total Sys	tem Design Supply Ai	rflow (CFM):	1800	Total Syste (B)		0.72	Maximum System Fan Power (B)HP:	
System Name:	HP-2 / Work room	Economizer:1	NA: <=54 kBtu/h cooling	Economize Controls:	r Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Fan Name or			Maximum Design Supply	Airflow			Fan Power Pressure Drop /	Adjustment - Table 140.4-
Item Tag	Fan Function	n Qty	(CFM)	AITIOW	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	700		BHP	0.38	NA	NA
Total Sys	tem Design Supply Ai	rflow (CFM):	700	Total Syste (B)		0.38	Maximum System Fan Power (B)HP:	

Registration Date/Time:

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

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CALIFORNIA ENERGY COMMISSION

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E

CERTIFICATE OF	2. 카카타 18 20 20 20 20 20 20 20 20 20 20 20 20 20	D. FI		1 011		241.0			NRCC-MCI
Project Name:		Roosevelt Eleme	180. David Charles Martin Co		U COROZERIO E				(Page 9 of :
Project Address			2324	Verde Stree	t Date Prep	ared:			12/9/20
	ON AND INDOOR AIR QUALITY			ii					
J. VENTILATIC	Mechanical Ventila	tion Required	per \$120 1(c)	3 3		Exh. \	/ent per <u>§120.1(c)4</u>	Î	
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	alterna strategia sortiti	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶
Classroom C2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
Classi oom Cz	Lecture/ postsecondary classroom	900			504.0	U	0	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	1	07
	1	System Desi			Contracto	Desires		Air Filtration per §120.1(c) and §141.0	
System Name	HP-1 / C-3	Airfl		365	Transfer	Design Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	entilation Required per §120.1(c)3 3			Exh. Vent per <u>§120.1(c)4</u>				
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	Contraction of Section of the President	ntrols per <u>§120.1(d)3</u> nd <u>§120.1(e)3</u> ⁶
Classroom C3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
Classicolii Co	Lecture/ postsecondary classioon	500	J		504.8	U	y	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 Desi	ign OA CEM		Suctom	Design		Air Filtration per §12	0.1(c) and §141.0(b)
System Name	HP-1 / C4	Airfl		365	Transfer		0		<u>120.1(c)</u> (NR and /Motel))
08	09	10	11	12	13	14	15	ľ	16

Registration Provider: Energysoft **Registration Number:** CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Generated: 2022-12-09 15:18:10

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175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 21146 Plt: 12-13-22







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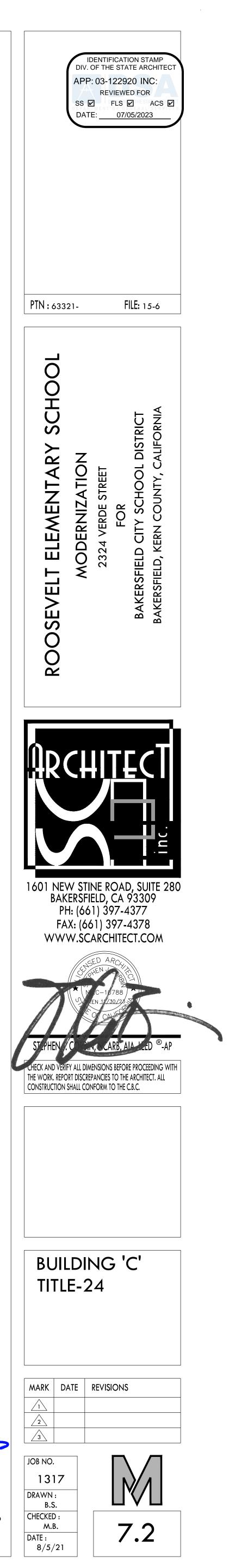
CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 8 of 18) 12/9/2022 This table is used to demonstrate compliance with mandatory ventilation requirements in <u>§120.1</u> and <u>§120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. 03 Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per <u>§120.1(c)2</u>. Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel)) 16 DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 6 Provided per §120.1(d)4 NA: Not required Occ Sensor space type Yes Ventilation for this System Complies? Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel))

DCV

16



STATE OF CALIFORNIA

CERTIFICATE OF	COMPLIANCE								NRCC-MCH-I	
Project Name:		Roosevelt Eleme	entary HVAC Ur	ogrades Bld	C Report Pa	ge:			(Page 10 of 18	
Project Address				Verde Stree		8000.			12/9/2023	
J. VENTILATIC	ON AND INDOOR AIR QUALITY Mechanical Ventila	tion Required	ner §120 1(c)	3 3		Exh. \	/ent per <u>§120.1(c)4</u>	Ē.		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)		# of people ⁵	Required Min OA CFM		Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> ⁶	
Classroom C4	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4	
Classiooin C4	Lecture/ postsecondary classioon	900		-	504.0	U	0	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Complies?	Yes	
	04 05				į		06		07	
System Name	HP-1 / C-5	System Desi Airfl		365		Design Air CFM	0	Air Filtration per <u>§120.1(c)</u> and <u>§141.0(</u> Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	0.000.0200	16	
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	3 ³		Exh. \	/ent per <u>§120.1(c)4</u>	1	en fores	
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	2	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> ⁶	
Classroom C5	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4	
Classroom C5	Lecture/ postsecondary classioon	500			504.8	U	U	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 Desi	TH OA CEN		Custom	Decise		Air Filtration per §12	0.1(c) and §141.0(b)2 ²	
System Name	HP-2 / Work room	Airfl	Constant Solid Street Street Constants	432	Contraction of the second	Design Air CFM	0		<u>120.1(c)</u> (NR and /Motel))	
				12	1		15	Hotel/Motel)) 16		

Registration Date/Time:

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E		
CERTIFICATE OF COMPLIANCE		
Project Name:	Roosevelt Elementary HVAC Upgrades Bld C	Report Page:
Project Address:	2324 Verde Street	Date Prepared:

Project Address:	

L. DISTRIBUTION	(DUCTWOR	K and PIPING)			
The answers to th	e questions be	low apply to the	following duct systems:	HP-1 / C-3	1
11	No	The scope of	the project includes only due	ct systems serving healt	hcare fa
12	Yes	Duct system p	provides conditioned air to a	n occupiable space for a	a consta
13	Yes	The space cor	nditioning system serves less	than 5,000 ft ² of condi	tioned f
14	No	The combined	d surface area of the ducts ir	the following locations	is more
			Outdoors		
			In a space directly under requirements of §140.3		1.000
			In an unconditioned cra	wl space	
			In other unconditioned	spaces	
15		The scope of	the project includes extendi	ng an existing duct syste	em, whic
16			the project includes an exist c testing in accordance with		
17	Yes	Duct system s	hall be sealed in acordance	with the California Mec	hanical
The answers to th	e questions be	low apply to the	following duct systems:	HP-1 / C4	
11	No	The scope of	the project includes only due	ct systems serving healt	hcare fa
12	Yes	Duct system p	provides conditioned air to a	n occupiable space for a	a consta
13	Yes	The space cor	nditioning system serves less	than 5,000 ft ² of condi	tioned f
14	No	The combined	d surface area of the ducts ir	the following locations	is more
			Outdoors		
			In a space directly under requirements of §140.3		
			In an unconditioned cra	wl space	
			In other unconditioned	spaces	
15		The scope of	the project includes extendi	ng an existing duct syste	em, whic
16			the project includes an exist c testing in accordance with		
17	Yes	Duct system s	hall be sealed in acordance	with the California Mec	hanical

Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E		CALI	FORNIA ENERG	Y COMMISSION	
CERTIFICATE OF COMPLIANCE				NRCC-MCH-E	
Project Name:	Roosevelt Elementary HVAC Upgrades Bld C Report Page:			(Page 16 of 18)	
Project Address:	Address: 2324 Verde Street Date Prepared:			12/9/2022	
O. DECLARATION OF REQUIRED	CERTIFICATES OF ACCEPTANCE			-	
These documents must be provided	on information provided in previous tables of this document. If any selection needs to be d to the building inspector during construction and can be found online at 4/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	changed, please explain why in	Table E Additio	nal Remarks.	
	Form/Title	Systems/Spaces To Be Field		Field Inspector	
	Form/ Inde	Verified	Pass	Fail	
	ist be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in y Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;			
	ne Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant s are included in the scope, permit applicant should move this form to "Yes".	Carrier 50VT-C24;			
NRCA-MCH-05-A - Air Economizer	Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier			
	Ventilation Systems must be submitted for all systems required to employ demand (0.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon ints.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;			
NRCA-MCH-11-A Automatic Dema	nd Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;			

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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ct leakage testing triggered for these systems?	No
ities	
volume, single zone, space-conditioning system.	
or area.	
han 25% of the total surface area of the entire duct s	ystem:
than the u-factor of the ceiling, or if the roof does n	ot meet the
or openings to the outside/ unconditioned spaces	
is constructed, insulated or sealed with asbestos.	
ed to have been previously sealed as confirmed throu residential Appendix NA2.	gh field verification
de	
ct leakage testing triggered for these systems?	No
ities	
volume, single zone, space-conditioning system.	
or area.	
han 25% of the total surface area of the entire duct s	ystem:
than the u-factor of the ceiling, or if the roof does n s or openings to the outside/ unconditioned spaces	ot meet the
is constructed, insulated or sealed with asbestos.	
ed to have been previously sealed as confirmed throu residential Appendix NA2.	gh field verification

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STATE OF CALIFORNIA **Mechanical Systems**

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld C Report Page: Project Name: 2324 Verde Street Date Prepared: Project Address:

Mechanical Ventilation Required per <u>§120.1(c)3</u> ³ Exh. Vent per <u>§120.1(c)4</u>										
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶		
Classroom C1 Lecture/ postsecondary classro	Losturo (portrocondon / classroom	om 960			364.8		0	0 0	DCV	Provided per §120.1(d)4
	Lecture/ possecondary classicom			-	504.0	0	0	Occ Sensor	NA: Not required space type	
Work room	Office cross	450			67.5	0	0	DCV	NA: Not required pe §120.1(d)3	
Work room	Office space	Office space 450		Ľ	67.5	U	0	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				432	18	Ventilation for this S	vstem 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 <u>§120.1(c)1A</u>: 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 <u>§120.2(e)3</u> requires systems serving rooms that are required by <u>§130.1(c)</u> 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

Registration Number:

STATE OF CALIFORNIA

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(I) for duct leakage Duct Leakage Sealing

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NRCC-MCH-E	DUANCE	CALIFORNIA ENERGY COMMISS			
Project Name:	IPLIANCE	Roosevelt Elementary HVAC Upgrades Bid C Report Page: (Page 14 of			
Project Address:		2324 Verde Street Date Prepared:			
Project Address.		2324 Verde Street Date Prepared: 12/9/2			
L. DISTRIBUTION	(DUCTWOR	K and PIPING)			
The answers to the	questions be	low apply to the following duct systems: HP-1 / C-5 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 <u>§140.3(a)1B</u> or if the root 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 verificati 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 be	low apply to the following duct systems: HP-2 / Work room 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 <u>§140.3(a)1B</u> 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 verificati 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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Mechanical Systems CALIFORNIA ENE NRCC-MCH-E CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld C Report Page: Project Name: 2324 Verde Street Date Prepared: Project Address: O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE elections 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 Add 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/ Systems/Spaces To Be Field Form/Title Verified NRCA-MCH-12-A FDD for Packaged Direct Expansion Units Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; NRCA-MCH-16-A Supply Air Temperature Reset Controls Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24; NRCA-MCH-18-A Energy Management Control Systems Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24; 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 ir	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	Report Generated: 2022-12-09 15:18:10	

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STATE OF CALIFORNIA Mechanical Systems

CERTIFICATE OF COMPLIANCE

11

12 13

L. DISTRIBUTION (DUCTWORK and PIPING)

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	The second s
sha	ce type
	ce type
NA · No	t required
	ided per 0.1(d)4

- i			
duct leakage i	estin	g.	

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Field Inspector				
Pass	Fail			

			in an anconationed craw	rapuec						
			In other unconditioned s	paces						
15		The scope of t	ne project includes extendin	g an existing duct system, which is co	nstructed, insulated or sealed with asbestos.					
16				ng duct system that is documented to procedures in the Reference Nonresid	have been previously sealed as confirmed thron ential Appendix NA2.	ugh field verification				
17	Yes	Duct system sh	all be sealed in acordance w	vith the California Mechanical Code						
ne answers to the	questions be	low apply to the fe	ollowing duct systems:	HP-1 / C-2 Duct lea	akage testing triggered for these systems?	No				
11	No	The scope of t	ne project includes only duct	t systems serving healthcare facilities						
12	Yes	Duct system pr	ovides conditioned air to an	occupiable space for a constant volu	me, single zone, space-conditioning system.					
13	Yes	The space con	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 2	5% of the total surface area of the entire duct s	system:				
411			Outdoors							
					n the u-factor of the ceiling, or if the roof does r penings to the outside/ unconditioned spaces	not meet the				
			In an unconditioned craw	I space						
			In other unconditioned s	paces						
15		The scope of t	ne project includes extendin	g an existing duct system, which is co	nstructed, insulated or sealed with asbestos.					
16				ng duct system that is documented to procedures in the Reference Nonresid	have been previously sealed as confirmed throu ential Appendix NA2.	ugh field verificatio				
17	Yes	Duct system sh	all be sealed in acordance w	vith the California Mechanical Code						
Registration Number	:			Registration Date/Time:	Registratio	on Provider: Energysof				
A Building Energy E	ficiency Stand	ards - 2019 Nonresi	dential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated	l: 2022-12-09 15:18:10				
ATE OF CALIFORNIA										
Aechanical Sy асс-мсн-е	stems				CALIFORNIA E	NERGY COMMISSIO				

Outdoors

Roosevelt Elementary HVAC Upgrades Bld C Report Page: 2324 Verde Street Date Prepared:

The answers to the questions below apply to the following duct systems: HP-1 / C-1 Duct leakage testing triggered for these systems?

Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

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

equirements of <u>§140.3(a)1B</u> or if the roof has fixed vents or openings to the outside/ unconditioned spaces

14 No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:

No The scope of the project includes only duct systems serving healthcare facilities

Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.

In an unconditioned crawl space

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CERTIFICATE OF COMPLIANCE			NRCC-MCH
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Project Address:	2324 Verde Street Date Prepared:		12/9/202
M. COOLING TOWERS			
This section does not apply to this	is project.		
N. DECLARATION OF REQUIRE	ED CERTIFICATES OF INSTALLATION	<u>.</u>	
Selections have been made based These documents must be provide	ED CERTIFICATES OF INSTALLATION d on information provided in previous tables of this document. If any selection needs to be changed led to the building inspector during construction and can be found online at 24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	d, please explain why in Table E Addi	tional Remarks.
Selections have been made based These documents must be provide	d on information provided in previous tables of this document. If any selection needs to be changed led to the building inspector during construction and can be found online at 24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	d, please explain why in Table E Addi Field In:	
Selections have been made based These documents must be provide	d on information provided in previous tables of this document. If any selection needs to be changed led to the building inspector during construction and can be found online at		

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l certif	y that this Certificate of Compliance documentation is accurat	and complete.						
Documer Mark B	ntation Author Name: askin	Documentation Author Signature: Mark Baskin, P.E. Mark Baskin, P.E. Signature Date: 2022-12-09						
^{Company} Baskin	/: Mechanical Engineers							
Address: 175 Ful		CEA/ HERS Certification Identification (if applicable): M26578						
City/State Fresno	e/Zip: CA 93721	Phone: 5592370376						
2. 3. 4. 5.	The energy features and performance specifications, materials, components, and mo of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of plans and specifications submitted to the enforcement agency for approval with this I will ensure that a completed signed copy of this Certificate of Compliance shall be	ibility for the building design or system design identified on this Certificate of Compliance (responsible designer) inufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement f Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, building permit application. nade available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable nce is required to be included with the documentation the builder provides to the building owner at occupancy.						
	ble Designer Name: askin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.09 15:19:33-08'00						
Company Baskin	/: Mechanical Engineers	Date Signed: 2022-12-09						
Address: 175 Ful		License: M26578						
City/Stati Fresno	e/Zip: CA 93721	Phone: (559) 237-0376						

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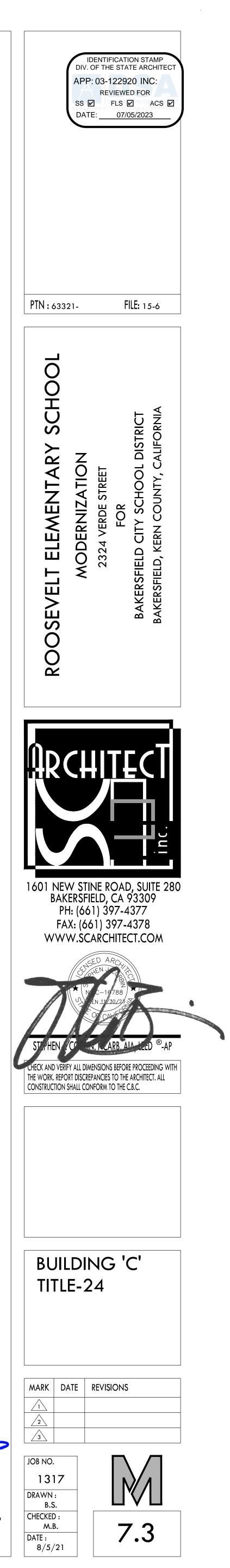
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No

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CERTIFICATE OF COMPLIANCE								NRCC-MCH	
This document is used to demonstrate comp path outlined in <u>§140.4</u> , or <u>§141.0(b)2</u> for a		cal systems that are within the	e scop	e of th	e permit applicatio	on and are	demonstrating	compliance using the prescriptive	
Project Name:	ementary HVAC Upgrades Bld D	D Report Page: (Page 1 d							
Project Address: 2324 Verde Stre					:d:			12/9/20	
A. GENERAL INFORMATION									
01 Project Location (city)		Bakersfield	04	04 Total Conditioned Floor Area				4800	
02 Climate Zone		13	05 Total Unconditioned Floor Area				0		
03 Occupancy Types Within Project:			06	6 # of Stories (Habitable Above Grade)			de)	1	
Office (B)	🗌 Retail (M)		Non-	refrigerated Wareł	nouse (S)	•		
Hotel/ Motel Guest Rooms (R-1))		Healt	hcare Facility (I)					
High-Rise Residential (R-2/R-3)	ble Class Bldg (E) 🛛 Other (write in)			r (write in)			See Table J		
B. PROJECT SCOPE This table Includes mechanical systems or c <u>§140.4</u> , or <u>§141.0(b)2</u> for alterations.	omponents that are	within the scope of the perm	it appl	icatio	n and are demonst	rating com	pliance using t	he prescriptive path outlined in	
01		02				03			
Air System(s)		Wet System	Compo	onents	5	Dry System Components			
Heating Air System		Water Economizer	ŝ			Air Economizer			
Cooling Air System		Pumps					Electric Resis	stance Heat	
Mechanical Controls		System Piping					Fan Systems		
Mechanical Controls (existing t or new)	o remain, altered	Cooling Towers							
		Chillers					Ventilation		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CERTIFICATE OF COMP	LIANCE									NRCC-MCH	
	d to demonstrate comp) <u>.4</u> , or <u>§141.0(b)2</u> for a	Contract and Contract and a second	cal syster	ns that are within the	scope	e o	of the permit application	on and are	demonstratir	g compliance using the prescriptive	
Project Name:		Roosevelt E	lementary	HVAC Upgrades Bld D	D Report Page: (Page 1						
Project Address: 2324 Verde Street					Date P	re	epared:			12/9/20	
A. GENERAL INFOR	MATION										
01 Project Location (city)			Bakersfield			Total Conditioned Floor Area				4800	
02 Climate Zone				.3	05	T	Total Unconditioned Floor Area			0	
03 Occupancy Type:	s Within Project:				06	# of Stories (Habitable Above Grade)			de)	1	
Office (B)		🛛 Retail (M)			N	Non-refrigerated Wareh	nouse (S)			
Hotel/ Motel Guest Rooms (R-1) School ()			Н	Healthcare Facility (I)				
□ High-Rise Residential (R-2/R-3) □ Relocata			able Class Bldg (E)			С	Other (write in)			See Table J	
3. PROJECT SCOPE This table Includes m §140.4, or §141.0(b)2		omponents that are	within t	he scope of the permit	appl	lici	ation and are demonst	rating com	npliance using	the prescriptive path outlined in	
	01		02				03				
	Air System(s)			Wet System C	ompo	on	nents	Dry System Components			
Heating /	Air System			Water Economizer					Air Econor	lizer	
Cooling A	Air System			Pumps		_			Electric Res	sistance Heat	
n	Aechanical Controls			System Piping		_			Fan Systems		
Mechani or new)	cal Controls (existing to	remain, altered		Cooling Towers							
				Chillers		_			Ventilation		
				Boilers		_				ms/ Terminal Boxes	

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01	02	03	04	05	06	07	08	09
			Heati	ng 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/D-1	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / D-2	<65,000		HSPF	7.7	8.3	SEER	13.0	16.2
HP-1/D-3	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
HP-1 / D-4	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1
HP-1/D-5	<65,000		AFUE	0.80	0.81	SEER	13.0	16.1

G. PUMPS This section does not apply to this project.

This table is use		compliance with pr	escriptive requirements for be included in Table H.	und in <u>§140.4</u>	<u>(c), §140.4(e)</u> (and <u>§140.4(m)</u> for fan	systems. Fan systems servin	g only process loads are
System Name:	HP-1/D-1	Economizer:1	Fixed Temperature	Economia Controls	0.7.0	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	1	05	06	07	08
Can Nama an			Maulaum Davias Currel				Fan Power Pressure Drop Adjustment - Table 1	
Fan Name or Item Tag	Fan Functio	on Qty	Maximum Design Suppl (CFM)	y Airtiow	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1800		BHP	0.66	NA	NA
Total Syste	m Design Supply /	Airflow (CFM):	1800		tem Design 3)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 Report Generated: 2022-12-09 15:22:09 Schema Version: rev 20200601

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CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report F Project Name: 2324 Verde Street Date P Project Address:

I. SYSTEM CONTROLS ¹FOOTNOTES: 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

occupancies. Fo	or alteration	strate compliance with m s, only ventialtion systems nd airflows may be shown	being altered	within the sc	ope of the	permit app	lication nee	d to be documented in t					
01		Check the box if the pro	ject is showing	g ventilation of	alculations	on the pla	ns, or attac	hing the calculations ins	tead of completing this	table.			
2.	\boxtimes	Check this box if the pro	ject included	Nonresidentia	al or Hotel/	Motel space	es						
02		Check this box if the pro	heck this box if the project included new or altered high-rise residential dwelling units.										
03		Check the box if the pro	ject is using na	atural ventilat	ion in any	nonresiden	tial or hote	l/motel spaces to meet i	required ventilation rat	es per §120.1(c)2.			
Nonresidential	and Hotel/	Motel Ventilation System	15										
	04	1		05			_	06	07				
			System Design OA CFM			6 1			Air Filtration per §120.1(c) and §141.0(b				
System Name		HP-1 / D-1	Airfle	States and states and the	365	Transfer	Design Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))				
08		09	10	11	12	13	13 14 15		16				
		Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u> ³		Exh. V	/ent per <u>§120.1(c)4</u>					
Space Name ot item Tag	0	Occupancy Type ⁴		ditioned # of Shower or Area heads/ (ft ²) toilets		Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶			
Classroom D1	Losturo / a	ortrocondoru classroom	060			364.8	0	0	DCV	Provided per §120.1(d)4			
Classroom D1	Lecture/ p	Lecture/ postsecondary classroom		960		304.8	U	U	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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STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E

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01	9L 2	02		03		04		05		06		07		
System Summary §110.1, §110.2, §140.4	AND	Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers <u>§140.4(c)</u> , <u>§140.4(e)</u>	AND	System Controls <u>§110.2,</u> <u>§120.2,</u> <u>§140.4(f)</u>	AND	Ventilation §120.1	AND	Terminal Box Controls <u>§140.4(d)</u>	AND	Distribution <u>§120.3,</u> §140.4(I)	AND	Coolin <u>§11</u> (
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See]
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND	
				Mandatory	Measu	res Complian	ce (See	Table Q for D	etails)				COMP	LIES

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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Mechanical	Systems
NRCC-MCH-E	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE Project Name:

Project Address:				232	4 Verde Stree	et Date	Prepared:		
H. FAN SYSTEI	VIS & AIR ECON	OMIZERS		_	ų –				
System Name:	HP-1 / D-2	Econo	mizer:1	Fixed Temperature	Econom		Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type:
01	02		03	04			05	06	07
Fan Name or Item Tag	Fan Funct	on	Qty	Maximum Design Suppl (CFM)	ximum Design Supply Airflow (CFM)		9 Unit ²	Design HP	Fan Power Pressure Drop Device
SF	Supply		1	1800		ВНР		0.66	NA
Total Syste	Total System Design Supply Airflow (CFM):		FM):	1800	Total Sys (B		-	0.66	Maximum System Fan Power (B)HP:
System Name:	HP-1 / D-3	Econo	mizer:1	Fixed Temperature Control			Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type:
01	02		03	04			05	06	07
Fan Name or Item Tag	Fan Funct	on	Qty	Maximum Design Suppl (CFM)	Aaximum Design Supply Airflow (CFM)		' Unit ²	Design HP	Fan Power Pressure Drop Device
SF	Supply		1	1800		ВНР		0.72	NA
Total Syste	em Design Supply	Airflow (C	FM):	1800		I System Design (B)HP: 0.72		Maximum System Fan Power (B)HP:	
System Name:	HP-1 / D-4	Econo	mizer:1	Fixed Temperature	Econom Contro		Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type:
01	02	ů.	03	04			05	06	07
Fan Name or				Maximum Design Supply Airflow		irflow			Fan Power Pressure Drop
Item Tag	Fan Funct	on	Qty	(CFM)		HP	⁹ Unit ²	Design HP	Device
SF	Supply		1	1800		1	внр	0.72	NA
Total Syste	m Design Supply	Airflow (C	FM):	1800		ystem (B)HP:	Design	0.72	Maximum System Fan Power (B)HP:

Roosevelt Elementary HVAC Upgrades Bld D Report Page:

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Project Address:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report Page: 2324 Verde Street Date Prepared: Project Name:

	04		05				06		07	
		System Desi			Curtory	Destas		Air Filtration per §120.1(c) and §141.0		
System Name	HP-1 / D-2	Airfle	•	365		Design Air CFM	0	0 Provided per <u>§120.</u> Hotel/Mot		
08	09	10	11	12	13	14	15	16		
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	Area heads/ Min OA		Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶			
lassroom D2	Lecture/ postsecondary classroom	22 Lecture / postceropdary classroom	960			364.8	0	0	DCV	Provided per <u>§120.1(d)4</u>
LIASSIOUTI DZ	Lecture/ possecondary classicon	900			504.8	Ū	0	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Complies?	Yes	
	04				06	07				
		System Desi	en OA CFM		System	Design		Air Filtration per §120.1(c) and §141.0(b		
iystem Name	HP-1 / D-3	Airflow ¹		365	100000000000000000000000000000000000000	Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15		16	
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	heads/ # of		Required Min CFM	Provided per Design CFM	CONTRACTOR AND A DESCRIPTION OF A DESCRI	trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶	
Classroom D3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4	
aassi 00111 DS	cecture/ possecondary classioon	900			504.8	U	U	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Complies?	Yes	

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

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STATE OF CALIFORNIA Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

Project Address:

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 2 of 16) 12/9/2022 e user. If this table says "DOES 08 09 ling Towers 110.2(e)2 Compliance Results e Table M) COMPLIES

Roosevelt Elementary HVAC Upgrades Bld D Report Page: 2324 Verde Street Date Prepared:

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 3 of 16)

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CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

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	to demonstrate compliance 140.4(k) or <u>§141.0(b)2</u> for a	for mechanical equipment with mandator Iterations.	ry requirements	found in <u>§11</u>	0.1 and <u>§1.</u>	<u>10.2(a)</u> and	l prescriptive	requireme	nts found in	<u>§140.4(a</u>)
	10000	onditioners, condensers, heat pumps, VR		T MILLION						
01	02	03	04	05	06	07	08	09	10	11
			Available ⁴ §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h) <u>§140.4</u> (a&b)						
Name or Item Tag				Heating Output ^{2,3}			Cooling Output ^{2,3}		Load Calculations ^{3,4}	
	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20		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 / D-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	55.65	46.32	59.29	62.08
HP-1 / D-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	54.86	36.18	53.92	46.32	56.45	59.57
HP-1 / D-3	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.26	44.73	56.19	59.79
HP-1 / D-4	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.26	44.73	56.19	59.79
HP-1 / D-5	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	52.29	44.73	59.04	61.39

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§140.4(a). Healthcare facilities are excepted.

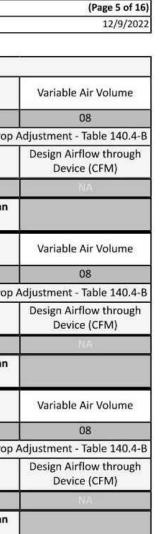
²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per <u>§140.4(b)</u>.

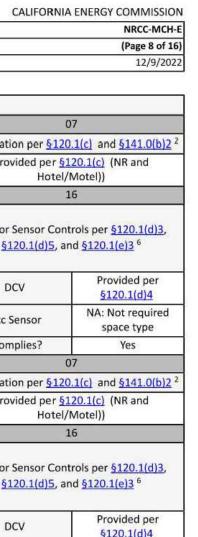
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	20.1(c) (NR and Motel))	Syste
1	6	
	rols per <u>§120.1(d)3,</u> d <u>§120.1(e)3</u> ⁶	Spac ot it
	Provided per §120.1(d)4	Class
	NA: Not required space type	Class
	Yes	
0	7	

Registration Provider: Energysoft Report Generated: 2022-12-09 15:22:09 STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report Page: Project Name: 2324 Verde Street Date Prepared Project Address: H. FAN SYSTEMS & AIR ECONOMIZERS System

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Economizer Designed per §140.4(e) and HP-1 / D-5 **Fixed Temperature** System Fan Type: Variable Air Volume Economizer: Controls: Name: 01 08 02 04 05 06 Fan Power Pressure Drop Adjustment - Table 140.4-B aly Airfloy Fan Function caigii anhhi HP Unit² Design HP Design Airflow through Item Tag (CFM) Device Device (CFM) SF Supply 1800 BHP 0.72 Total System Design Maximum System Fan Total System Design Supply Airflow (CFM): 1800 0.72 (B)HP: Power (B)HP: ¹ FOOTNOTES: Computer room economizers must meet requirements of <u>§140.9(a)</u> 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

•	31	3	LIVI	coi	VIN	ULS
τ	hic	to	hlo i	c 1100	d to	don

Registration Number:

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats <u>§110.2(b)</u> & (c) ¹ , §120.2(a)or §141.0(b)2E	Shut-Off Controls <u>§120.2(e)</u>	Isolation Zone Controls <u>§120.2(g)</u>	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks pe <u>§140.4(n)</u>
HP-1 / D-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-5	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

Registration Number:

CERTIFICATE OF COMPLIANCE	
Project Name:	Roosevelt Elementary HVAC Upgrades Bld D Report Page:
Project Address:	2324 Verde Street Date Prepared:

	04		05				06	(07
			01 CT14					Air Filtration per §120).1(c) and §141.0(b)2
System Name	HP-1 / D-4	System Desi Airfl		365	System Transfer	Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	<u>3</u> ³		Exh. V	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶	
Classroom D4	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
classroom D4	Lecture/ posisecondary classroom	960			504.0	0	0	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 Desi	σn ΟΔ CEM		System	Design		Air Filtration per §120.1(c) and §141.0	
System Name	HP-1 / D-5	Airfl		365	Transfer		0		1 <u>20.1(c)</u> (NR and 'Motel))
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	<u>3</u> ³		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶
Classroom D5	Lecture/ postsecondary classroom	960		1	364.8	0	0	DCV	Provided per §120.1(d)4
	Lecture/ posisecondary classicom	500			504.8	U	U	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this	System Complies?	Yes

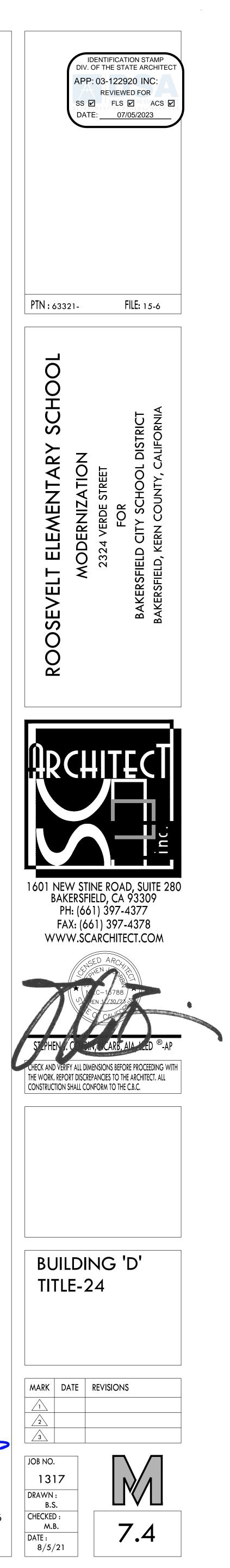
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CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report Project Name: 2324 Verde Street Date Pr Project Address:

J. VENTILATION AND INDOOR AIR QUALITY

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 BO	OX CONTROLS	5				
This section does	not apply to th	is project.				
L. DISTRIBUTIO	N (DUCTWOR	K and PIPING)	11. II.			
This table is used	to show compl	iance with manda	ntory pipe insulation requiren	nents found in <u>§120.3</u> a	nd prescriptive requirements found in <u>§140.4(I)</u> for duct leakag	je testing.
Duct Leakage Sea	ling					
The answers to th	e questions be	low apply to the	following duct systems:	HP-1 / D-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of t	the project includes only duc	t systems serving health	care facilities	
12	Yes	Duct system p	provides conditioned air to ar	n occupiable space for a	constant volume, single zone, space-conditioning system.	
13	Yes	The space cor	nditioning system serves less	than 5,000 ft ² of condit	oned 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 sy	stem:
			Outdoors			
			그는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같이 많이 있는 것 같이 많이 많이 많이 많이 없다.		or greater than the u-factor of the ceiling, or if the roof does no xed vents or openings to the outside/ unconditioned spaces	ot meet the
			In an unconditioned crav	vl space		

Roosevelt Elementary HVAC Upgrades Bld D Report Page:

2324 Verde Street Date Prepared:

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Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Project Name: Project Address:

			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 project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification the 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 TO	WERS		
This section does r	not apply to th	is project.	
N. DECLARATION	OF REQUIR	ED CERTIFICAT	ES OF INSTALLATION
Selections have be	en made base	d on informatio	n 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

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² Air filtration requirements apply to the following three system types per <u>§120.1(c)1A</u> : 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

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Field Inspector

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Pass

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STATE OF CALIFORNIA Mechanical Systems

Project Name:

NRCC-MCH-E CERTIFICATE OF COMPLIANCE

Project Address:		2324 Verde Street Date Prepared:	
L. DISTRIBUTION	I (DUCTWOR	and PIPING)	
		In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sea	led with
16		The scope of the project includes an existing duct system that is documented to have been previously seal and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	ed as cor
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the	e questions be	w apply to the following duct systems: HP-1 / D-2 Duct leakage testing triggered for	these sy
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-con	ditioning
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 are	ea of the
		Outdoors	
		In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling requirements of <u>§140.3(a)1B</u> or if the roof has fixed vents or openings to the outside/ un	
		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 sea	led with
16		The scope of the project includes an existing duct system that is documented to have been previously seale and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	ed as cor
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the	e questions be	w apply to the following duct systems: HP-1 / D-3 Duct leakage testing triggered for	these sy
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-con	nditioning
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 are	ea of the
		Outdoors Outdoors	
		In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling requirements of <u>§140.3(a)1B</u> or if the roof has fixed vents or openings to the outside/ un	7.0
		In an unconditioned crawl space	

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2324 Verde Street Date Prepared

Registration Date/Time:

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report Page: Project Name: Project Address: O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

elections have been made based on information provided in previous tables of this document. If any selection needs to be hese documents must be provided to the building inspector during construction and can be found online at ttps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	changed, please explain why in	Table E Additio	nal Remarks.
France /Title	Systems/Spaces To Be Field	Field In	spector
Form/Title	Verified	Pass	Fail
IRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in onjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;		
IRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;		
IRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand ontrolled ventilation (refer to <u>§120.1(c)3</u>) can vary outside ventilation flow rates based on maintaining interior carbon ioxide (CO ₂) concentration setpoints.	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;		
IRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;		
IRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier		

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Project Name: Roosevelt Elementary HVAC Upgrades Bld D Report Page: 2324 Verde Street Date Prepared: Project Address:

I certify t	that this Certificate of Compliance documentation is accu	rate and complete.				
Documentati Mark Bask	tion Author Name: kin	Documentation Author Signature: Mark Baskin,	P.E.			
^{Company:} Baskin Me	echanical Engineers	Signature Date: 2022-12-09				
Address: 175 Fulton St.		CEA/ HERS Certification Identification (if applicable): M26578				
City/State/Zi Fresno CA		Phone: 5592370376				
I certify the f 1. 1 2. 1 3. 1 4. 7 5. 1	The energy features and performance specifications, materials, components, an of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certific plans and specifications submitted to the enforcement agency for approval with I will ensure that a completed signed copy of this Certificate of Compliance shall	ponsibility for the building design or system design identified on this Certificate of Comp d manufactured devices for the building design or system design identified on this Certifi ate of Compliance are consistent with the information provided on other applicable comp this building permit application. be made available with the building permit(s) issued for the building, and made availabl spliance is required to be included with the documentation the builder provides to the b	cate of Co pliance do e to the er			
Responsible Mark Bask	Designer Name: kin, P.E.	Responsible Designer Signature: Mark Baskin,	P.E.			
Company: Baskin Me	echanical Engineers	Date Signed: 2022-12-09				

City/State/Zip: Fresno CA 93721

Address: 175 Fulton

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance **Registration Date/Time:** Report Version: 2019.1.003

Schema Version: rev 20200601

M26578

(559) 237-0376

Phone:

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 16 12/9/202 asbestos. onfirmed through field verification ystems? No ng system. e entire duct system: the roof does not meet the ioned spaces asbestos. onfirmed through field verification ystems? No ng system. e entire duct system: f the roof does not meet the ioned spaces

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ALIFORNIA ENER	GY COMMISSION
	NRCC-MCH-E
	(Page 16 of 16)
	12/9/2022
	1
Mark Baskin,	
·· 2022.12.09 1	5:22:58-08'00'
	-
esponsible designer	
Compliance conform	to the requirements
documents, workshe	ets, calculations,
enforcement agency owner at occupancy.	for all applicable
miler of occupation.	
Mark Backin	
Mark Baskin, I 2022.12.09 15	

Registration Provider: Energysoft Report Generated: 2022-12-09 15:22:09

CERTIFICATE OF COM	PLIANCE					NRCC-MCH-
Project Name:			Roosevelt Elementary HV/	AC Upgrades Bld D Report Page	:	(Page 12 of 16
Project Address:			i.	2324 Verde Street Date Prepar	ed:	12/9/202
L. DISTRIBUTION	(DUCTWOR	K and PIPING)				
	•		In other unconditioned	d spaces		
15		The scope of t	he project includes extend	ding an existing duct system	which is constructed, insulated or sealed with asbestos.	
16	÷	The scope of t	he project includes an exi	sting duct system that is doc	umented to have been previously sealed as confirmed throu ce Nonresidential Appendix NA2.	ugh field verification
17	Yes	Duct system s	hall be sealed in acordanc	e with the California Mecha	nical Code	
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1 / D-4	Duct leakage testing triggered for these systems?	No
11	No	The scope of t	he project includes only d	uct systems serving healthca	are facilities	
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a co	onstant volume, single zone, space-conditioning system.	
13	Yes	The space con	ditioning system serves le	ss than 5,000 ft ² of conditio	ned 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 s	ystem:
			Outdoors			
					greater than the u-factor of the ceiling, or if the roof does n ed vents or openings to the outside/ unconditioned spaces	ot meet the
			In an unconditioned cr	rawl space		
100	N.		In other unconditioned			
15	1	The scope of t	he project includes extend	ding an existing duct system,	which is constructed, insulated or sealed with asbestos.	
16					umented to have been previously sealed as confirmed throu ice Nonresidential Appendix NA2.	igh field verification
17	Yes	Duct system s	hall be sealed in acordanc	e with the California Mecha	nical Code	
The answers to the	questions be	low apply to the f	ollowing duct systems:	HP-1 / D-5	Duct leakage testing triggered for these systems?	No
11	No			uct systems serving healthca		
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a co	onstant volume, single zone, space-conditioning system.	
13	Yes	The space con	ditioning system serves le	ss than 5,000 ft ² of conditio	ned 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 s	ystem:
52 Ya			Outdoors			
					greater than the u-factor of the ceiling, or if the roof does n ed vents or openings to the outside/ unconditioned spaces	ot meet the
			In an unconditioned cr	rawl space		

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Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld D Report Page Project Name: Project Address 2324 Verde Str O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE ections 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/ Field Inspector Systems/Spaces To Be Field Form/Title Verified Pass Fail NRCA-MCH-16-A Supply Air Temperature Reset Controls Carrier 50GCQM06; Carrier 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50GCQM06; Carrier NRCA-MCH-18-A Energy Management Control Systems 50GCQM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

	480	SCGM06;		
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 plo	an set or construction documentation.			
01			02	
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M	-Sheets	

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

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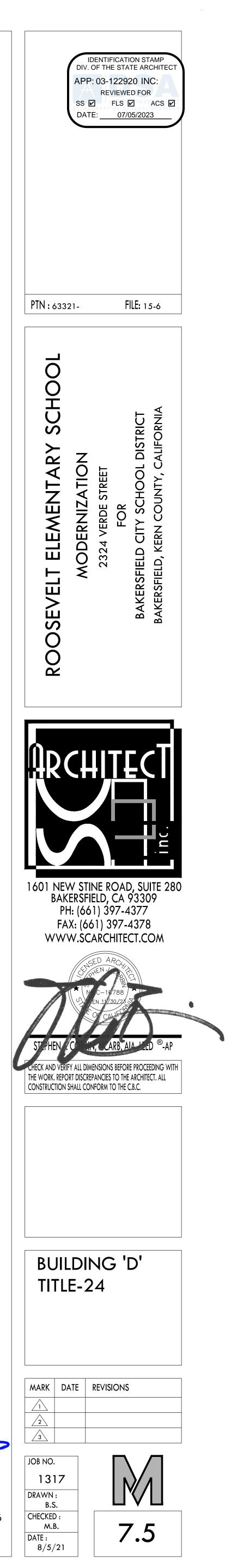
NRCC-MCH-E

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STATE OF CALIFORNIA

CERTIFICAT	TE OF COMPLIANCE									NRCC-N
	ment is used to demonstrate compliance for ined in <u>§140.4</u> , or <u>§141.0(b)2</u> for alteration		al system	ns that are within the	e scop	e c	of the permit applicati	ion and are	demo	onstrating compliance using the prescript
Project Na	me:	Roosevelt El	lementary	HVAC Upgrades Bld E	Report	t P	age:			(Page 1 d
Project Address: 232				2324 Verde Street	Date P	Pre	pared:			12/9,
A. GENER	RAL INFORMATION					-				
01 Projec	ct Location (city)		Baker	sfield	04	T	otal Conditioned Floo	r Area		2696
02 Clima	ite Zone		1	3	05	05 Total Unconditioned Floor Area		0		
03 Occup	pancy Types Within Project:			06 #			of Stories (Habitable	Above Grad	de)	1
Office	e (B)	Retail (M)			N	Ion-refrigerated Ware	house (S)		
Hotel	/ Motel Guest Rooms (R-1)	School (E	E) 🗆			Н	lealthcare Facility (I)			
🗌 High-I	Rise Residential (R-2/R-3)	Relocatab	able Class Bldg (E)		🛛 Other (write in)		See Table J			
	CT SCOPE				~	112			-	30
	Includes mechanical systems or componer r <u>§141.0(b)2</u> for alterations.	nts that are	within th	e scope of the perm	it appl	lico	ation and are demons	trating com	pliand	ice using the prescriptive path outlined in
	01	Î		0	2					03
	Air System(s)			Wet System	Components		1	Dry System Components		
	Heating Air System			Water Economizer	-	91/19/2	2011 (A15-2		Air	Economizer
	Cooling Air System			Pumps					Ele	ectric Resistance Heat
	Mechanical Controls			System Piping						
	Mechanical Controls (existing to remain or new)	, altered		Cooling Towers					noonteen anderstand and and and and and	
				Chillers		_			Ver	ntilation
		-		Boilers		_			-	nal Systems/ Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Mechanical Systems NRCC-MCH-E

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Project Name:	Roosevelt Elementary HVAC Upgrades Bld E	Report Page:
Project Address:	2324 Verde Street	Date Prepared

01	02	03	04	05	06	07	08	09
			Heati	ng Mode	A		Cooling Mode	A
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 and <135,000		СОР	3.3	3.6	EER IEER	11 12.2	11.2 15
HP-2 / E-2	>=65,000 and <135,000		СОР	3.3	3.6	EER IEER	11 12.2	11.2 15

This section does not apply to this project.

				escriptive requirements fou be included in Table H.	nd in <u>§140.</u>	4(c), §	<u>140.4(e)</u> a	nd <u>§140.4(m)</u> for fan	systems. Fan systems servin	g only process loads are
System Name:	HP-1/E-1	Economizer	;1	Fixed Temperature	ixed Temperature Economiz		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Variable Air Volume
01	02	0	3	04			05 06		07	08
Face Management		Fan Function Qty				0			Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Fan Name or Item Tag	Fan Functio			Maximum Design Supply (CFM)	AITTIOW	HP	Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	1	1 2100 BHP		2100		знр	0.83	NA	NA
Total Syste	m Design Supply /	Airflow (CFM):		2100	Total S	ystem (B)HP:	NS 26760 2016	0.83	Maximum System Fan Power (B)HP:	

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Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE

Roosevelt Elementary HVAC Upgrades Bld E Report Page: 2324 Verde Street Date Prepared: Project Name: Project Address:

	Mechanical Ventila	tion Required	Exh. V	ent per §120.1(c)4						
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		V or Sensor Control §120.1(d)5, and §	
		1220			467.4			DCV		
Classroom E2	Lecture/ postsecondary classroom	1230			467.4	0	0	Occ Sensor		
								DCV	NA	
Work Room	Office space 236			35.4	0	0	Occ Sensor	3		
17	Total System Required Min OA CFM	1			503	18	Ventilation for this S	ystem Complies?		

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 <u>§120.1(c)1A</u> : 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 <u>§120.2(e)3</u> requires systems serving rooms that are required by <u>§130.1(c)</u> 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 5130.1(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(1) for duct leakage testing. **Duct Leakage Sealing**

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STATE OF CALIFORNIA **Mechanical Systems**

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CERTIFICATE OF COMPLIANCE Roosevelt Elementary HVAC Upgrades Bld E Report Page: Project Name: 2324 Verde Street Date Prepared: Project Address: C. COMPLIANCE RESULTS

01		02		03	-	04	1	05		06	1	07	-	08	09
System Summary <u>§110.1</u> , <u>§110.2</u> , <u>§140.4</u>	AND	Pumps <u>§140.4(k)</u>	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 <u>§140.4(d)</u>	AND	Distribution <u>§120.3,</u> <u>§140.4(I)</u>	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)	1
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
				Mandatory	Measu	ires Complian	ce (See	Table Q for D	etails)				COMP	LIES	
	10100 , 101 or	CONDITIONS	able co	omments beca	use of s	selections mad	de or da	ata entered in	tables	throughout the	e form.				

Registration Number:

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CERTIFICATE OF COMPLIANCE		
Project Name:	Roosevelt Elementary HVAC Upgrades Bld E	Report Page:
Project Address:	2324 Verde Street	Date Prepare

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

System Name:	HP-2 / E-2	Economizer:1	Fixed Temperature	Econom Contro	10	Designed	d per <u>§140.4(e)</u> and (m)	System Fan Type:
01	02	03	04	<u> </u>		05	06	07
Fan Name or			Maximum Design Supp	V Airflow				Fan Power Pressure Dr
Item Tag	Fan Functi	on Qty	(CFM)	IV AILIOW	HF	P Unit ²	Design HP	Device
SF	Supply	1	2100			внр	0.83	NA
Total Syste	m Design Supply	Airflow (CFM):	2100		Total System Design (B)HP: 0.83		Maximum System Fa 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.

SYSTEM CONTROLS

EXCEPTION 1 to §140.4(f)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

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

Registration Date/Time:

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Power (B)HP: Registration Provider: Energysoft

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Provided per

NA: Not required

space type

A: Not required pe

NA: Not required

space type

Yes

§120.1(d)3

§120.1(d)4

DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 6

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

Project Name:		Roosevelt Elementary HV	AC Upgrades Bld E Report P	age:
Project Address:			2324 Verde Street Date Pre	pared:
L. DISTRIBUTION	and concern and an array			
The answers to the	questions be	low apply to the following duct systems:	HP-1 / E-1	Duct leakage testing triggered for these systems
11	No	The scope of the project includes only d		
12	Yes	Duct system provides conditioned air to	an occupiable space for	a constant volume, single zone, space-conditioning syste
13	Yes	The space conditioning system serves le	ss than 5,000 ft ² of condi	itioned floor area.
14	No	The combined surface area of the ducts	in the following location	s is more than 25% of the total surface area of the entire
		Outdoors		
				tor greater than the u-factor of the ceiling, or if the roof fixed vents or openings to the outside/ unconditioned s
		In an unconditioned cr	awl space	
		In other unconditioned	d spaces	
15		The scope of the project includes extend	ding an existing duct syste	em, which is constructed, insulated or sealed with asbes
16		The scope of the project includes an exi and diagnostic testing in accordance wit		documented to have been previously sealed as confirme rence Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordanc	e with the California Mec	hanical Code
The answers to the	questions be	low apply to the following duct systems:	HP-2 / E-2	Duct leakage testing triggered for these systems
11	No	The scope of the project includes only d	uct systems serving healt	thcare facilities
12	Yes	Duct system provides conditioned air to	an occupiable space for	a constant volume, single zone, space-conditioning syste
13	Yes	The space conditioning system serves le	ss than 5,000 ft ² of cond	itioned floor area.
14	No	The combined surface area of the ducts	in the following location:	s is more than 25% of the total surface area of the entire
		Outdoors		
				tor greater than the u-factor of the ceiling, or if the roof fixed vents or openings to the outside/ unconditioned s
		In an unconditioned cr	awl space	
		In other unconditioned	d spaces	
15		The scope of the project includes extend	ding an existing duct syste	em, which is constructed, insulated or sealed with asbes
16		The scope of the project includes an exi and diagnostic testing in accordance wit		documented to have been previously sealed as confirme rence Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordanc	e with the California Mec	chanical Code

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STATE OF CALIFORNIA **Mechanical Systems**

HP-2 / E-2

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Mechanical Systems

CERTIFICATE OF COMPLIANCE

M. COOLING TOWERS

Project Name:

Project Address:

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E							C	CALIFORNIA ENERGY COMMIS		MMISSIO		
CERTIFICATE OF CO	OMPLIANCE								1	RCC-MCH-		
Project Name:		Roosevelt Elementary HVAC Upgrades	Bld E Report Page: (Page 3 of 1									
Project Address:		2324 Verde :	Street Date Prepa	reet Date Prepared:								
F. HVAC SYSTEM	A SUMMARY (DRY & WET	SYSTEMS)										
<u>§140.4(b)</u> and §:	1 <u>40.4(k)</u> or <u>§141.0(b)2</u> for a		S 20			<u>10.2(a)</u> and	l prescriptive	e requireme	ents found in	9 <u>§140.4(a)</u>		
		onditioners, condensers, heat pumps, VR	CHAN!			10						
01	02	03	04	05	06	07	08	09	10	11		
					Equipme	010010303660363706	er Mechanica 140.4 (a&b)		(kBtu/h)			
			Smallest Size	He	ating Outpu	t ^{2,3}	Cooling C	Dutput ^{2,3}	Load Calc	ulations ^{3,4}		
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	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	75.87	63.55	36.18	66.92	55.3	76.17	80.52		

NA: Load

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Controls

75.87

63.5

36.18

89.88

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¹FOOTNOTES: 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. ²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

Roosevelt Elementary HVAC Upgrades Bld E Report Page

2324 Verde Stree

Air-cooled, pkg (3 phase)

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).

Unitary Heat Pumps

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CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 5 of 11 12/9/2 Variable Air Volume 08 Drop Adjustment - Table 140.4-B

esign Airflow throug

Device (CFM)

141.0(b)2E for altered 09 Window Interlocks per §140.4(n) Provided Provided

*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);

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systems?	No
ing system.	
he entire duct sy	stem:
the roof does no	t meet the
tioned spaces	
th asbestos.	
confirmed throug	gh field verification
	N 122
systems?	No
ing sustem	
ing system.	
he entire duct sy	ctom.
ne entire duct sy.	stem.
the roof does no	t meet the
tioned spaces	it meet the
th asbestos.	
confirmed throug	gh field verification
-	

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Roosevelt Elementary HVAC Upgrades Bld E Report Page: 2324 Verde Street Date Prepared: 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

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/ Systems/Spaces To Be Field Field Inspector Form/Title Verified 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 Carrier 50GCQM07; Carrier conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. 50GCOM07: NRCA-MCH-05-A - Air Economizer Controls Carrier 50GCQM07; Carrier 50GCQM07; NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand Carrier 50GCQM07; Carrier controlled ventilation (refer to <u>\$120.1(c)3</u>) can vary outside ventilation flow rates based on maintaining interior carbon 50GCQM07; dioxide (CO2) concentration setpoints. NRCA-MCH-11-A Automatic Demand Shed Controls Carrier 50GCQM07; Carrier 50GCOM07: Carrier 50GCQM07; Carrier NRCA-MCH-12-A FDD for Packaged Direct Expansion Units 50GCQM07; NRCA-MCH-16-A Supply Air Temperature Reset Controls Carrier 50GCQM07; Carrier 50GCQM07; NRCA-MCH-18-A Energy Management Control Systems Carrier 50GCQM07; Carrier 50GCQM07; Registration Date/Time: **Registration Number:**

> Report Version: 2019.1.003 Schema Version: rev 20200601



175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 21146 Plt: 12-13-22





Field Inspector Pass Fail

CALIFORNIA ENERGY COMMISSION

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. Ionresidential and Hotel/ Motel Ventilation Systems 05

	N T		05				00	1	07
		System Desi	an OA CEM		Sustan	Design		Air Filtration per §12	20.1(c) and §141.0(b)2
System Name	HP-1 / E-1	Airfl	and the first second	468		Air CFM	0		120.1(c) (NR and /Motel))
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<u>3</u> 3		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> ⁶
Classroom E1	Lastura/ pastrocondary dascroom	1230			467.4	0	0	DCV	Provided per §120.1(d)4
Classioon EI	Lecture/ postsecondary classroom	1250			407.4		U	Occ Sensor NA: No	
17	Total System Required Min OA CFM				467	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
		System Desi	an OA CEM		Suctor	n Design	Air Filtration per §		0.1(c) and §141.0(b)2
System Name	HP-2 / E-2	Airfl	•	503		Air CFM	0		120.1(c) (NR and /Motel))
08	09	10	11	12	13	14	15		16

Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

10 11 12 13 14

Report Version: 2019.1.003 Schema Version: rev 20200601

Report Generated: 2022-12-09 16:07:50

NRCC-MCH-E

(Page 9 of 11)

12/9/2022

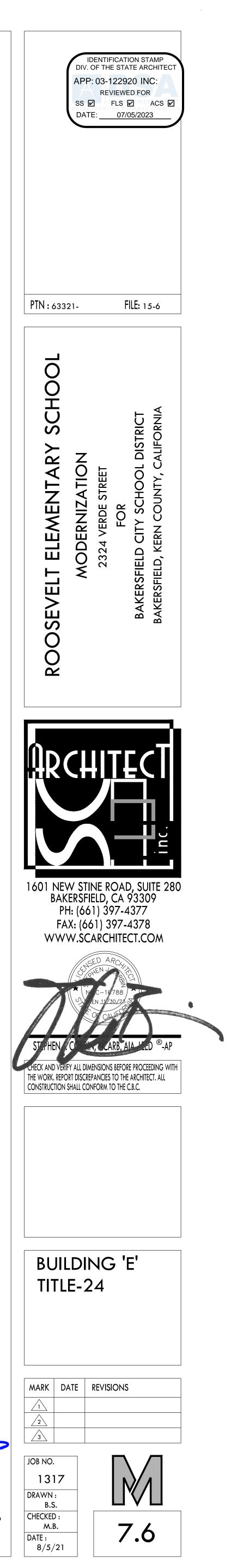
Registration Provider: Energysoft

Report Generated: 2022-12-09 16:07:50

09

his table is used to demonstrate compliance with mandatory ventilation requirements in <u>§120.1</u> and <u>§120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion 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. Check this box if the project included Nonresidential or Hotel/Motel spaces 02 Check this box if the project included new or altered high-rise residential dwelling units.

I. VENTILATION AND INDOOR AIR QUALITY





		CALIFORNIA ENERGY COMMISSIO			
		NRCC-MCH-E			
Roosevelt Elementary HVAC Upgrades	s Bld E Report Page:	(Page 10 of 11)			
2324 Verde	Street Date Prepared:	12/9/20.			
asures are documented in the plan s	et or construction documentation.				
01		02			
ed through MCH	Yes	M-Sheets			
	2324 Verde OF VERIFICATION IN LOCATION asures are documented in the plan s	IN LOCATION asures are documented in the plan set or construction documentation. 01 ed through MCH			

STATE OF CALIFORNIA Mechanical Systems

NRCC-MC	CH-E
CERTIFI	CATE OF COMPLIANCE
Project	Name: Roosevelt
Project	Address:
-	
DOCU	MENTATION AUTHOR'S DECLARATION STATEMEN
l certif	y that this Certificate of Compliance documentat
Documer Mark B	ntation Author Name: askin
Company Baskin	/: Mechanical Engineers
Address: 175 Ful	
City/Stat Fresno	e/Zip: CA 93721
	NSIBLE PERSON'S DECLARATION STATEMENT
CARDON CONTRACT	he following under penalty of perjury, under the laws of the State of
1. 2.	The information provided on this Certificate of Compliance is true I am eligible under Division 3 of the Business and Professions Cod
3.	The energy features and performance specifications, materials, co of Title 24, Part 1 and Part 6 of the California Code of Regulations
4.	The building design features or system design features identified plans and specifications submitted to the enforcement agency for
5.	I will ensure that a completed signed copy of this Certificate of Co inspections. I understand that a completed signed copy of this Ce
	ble Designer Name: askin, P.E.
Company Baskin	/: Mechanical Engineers
Address: 175 Ful	
City/Stati Fresno	e/Zip: CA 93721

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-12-09 16:07:50 **Registration Number:**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

NRCC-MCH	
IVAC Upgrades BId E Report Page: (Page 11 of 1	lementary HVAC Upgrades Bld E
2324 Verde Street Date Prepared: 12/9/202	2324 Verde Street
	r
rate and complete.	on is accurate and complet
Documentation Author Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022,12.09 16:08:52-08'00'	
Signature Date: 2022-12-09	
CEA/ HERS Certification Identification (if applicable): M26578	
Phone: 5592370376	
ponsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) d manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement ate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, this building permit application. be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable npliance is required to be included with the documentation the builder provides to the building owner at occupancy.	nponents, and manufactured devices n this Certificate of Compliance are c approval with this building permit ap npliance shall be made available with
Responsible Designer Signature: Mark Baskin, P.E. Mark Baskin, P.E. 2022.12.09 16:17:55-08'00'	
Date Signed:	
2022-12-09	

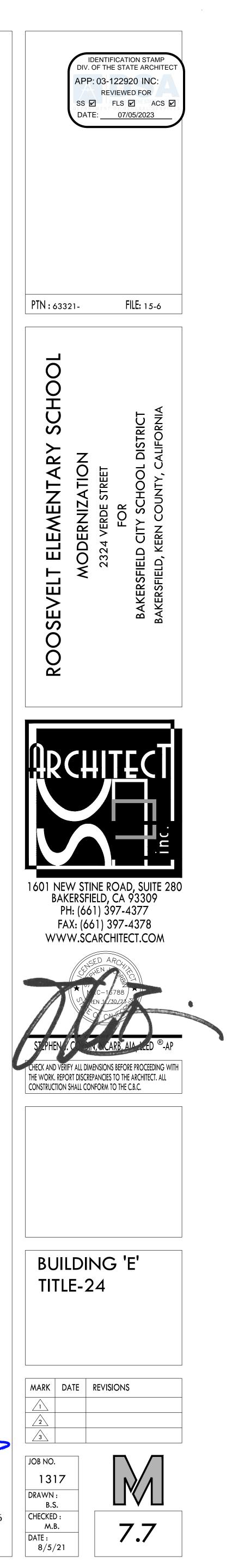
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-12-09 16:07:50









		PLUMBI	NG LEGENI	2	
SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESSIBLE		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.∨.(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		5.	SINK
	(D)HWR	(DOMESTIC) HOT WATER RETURN		S.∉W.	SOIL AND WASTE
	DN.	DOWN		SIM.	SIMILAR
	DR'N.	DRAIN	ISI OR ⊗OR ⋈	S.O.V.	SHUT OFF VALVE
	(E).	EXISTING		55	STAINLESS STEEL
	(E)C.W.	EXISTING COLD WATER		5.5.	SERVICE SINK
· · ·	(E)H.M.	EXISTING HOT WATER		SURF.	SURFACE
	(E)H.W.R	EXISTING HOT WATER RETURN		Т.∉Р.	TEMPERATURE AND PRESSURE RELIE
(E)C.D——	(E)C.D	EXISTING CONDENSATE DRAIN	————Э	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	<u> </u>	∨.0.	VENT OFFSET
•	F.D.	FLOOR DRAIN	Θ	V.T.R.	VENT THRU ROOF
	FLR.	FLOOR		(E) W.	EXISTING WASTE
	F.S.	FLOOR SINK		М.	WASTE
	G.	GAS		W.C.	WATER CLOSET
- — – (E) <i>G</i> . — —	(E) G.	EXISTING GAS		М.Н.	WATER HEATER
0	G.D.	GARBAGE DISPOSAL	○ —#	W.C.O.	WALL CLEANOUT

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

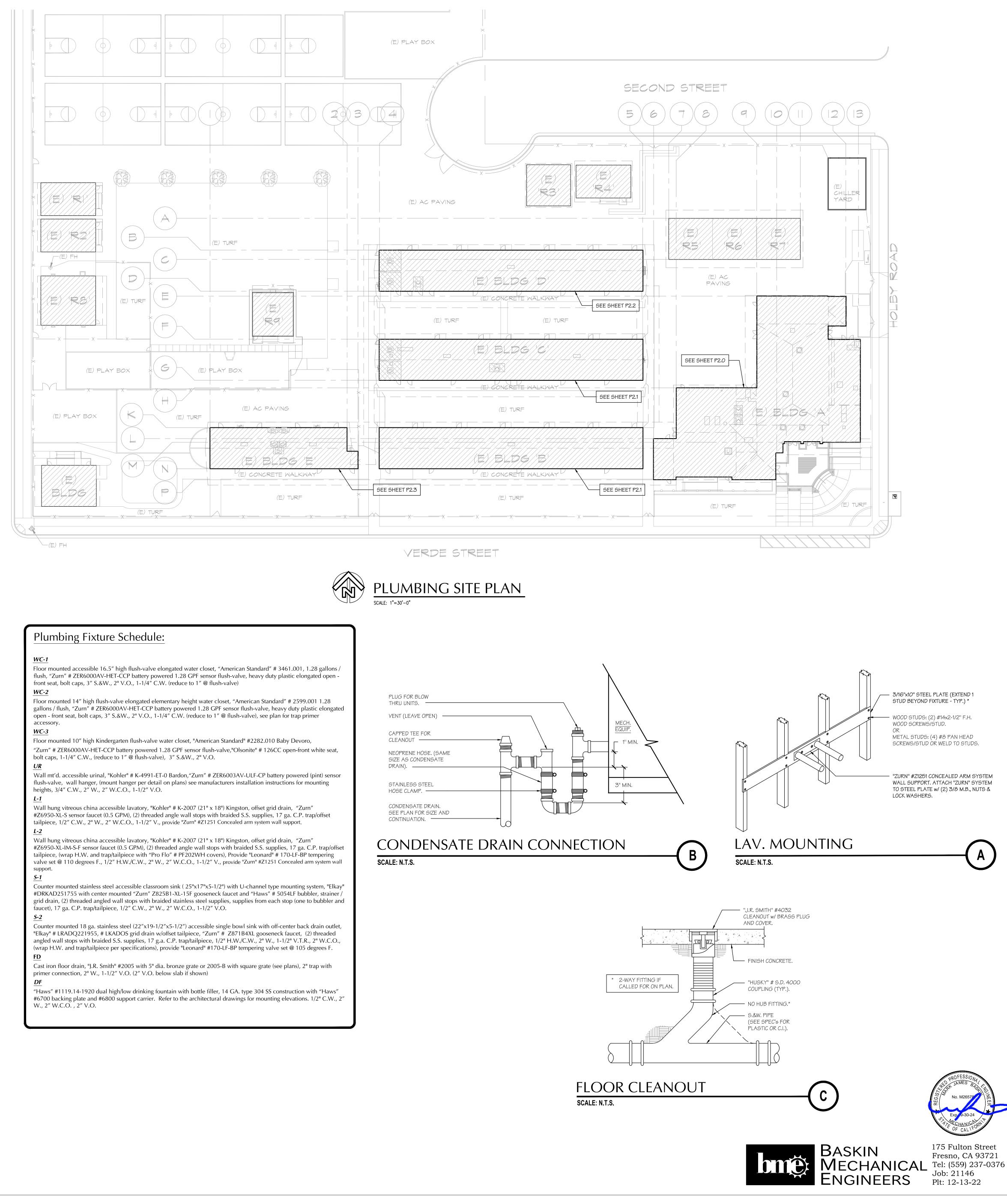
- **Option 1:** Detailed on the approved drawings with project specific notes and details PP 🗆 E 🛛
- MP MD Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#)

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.

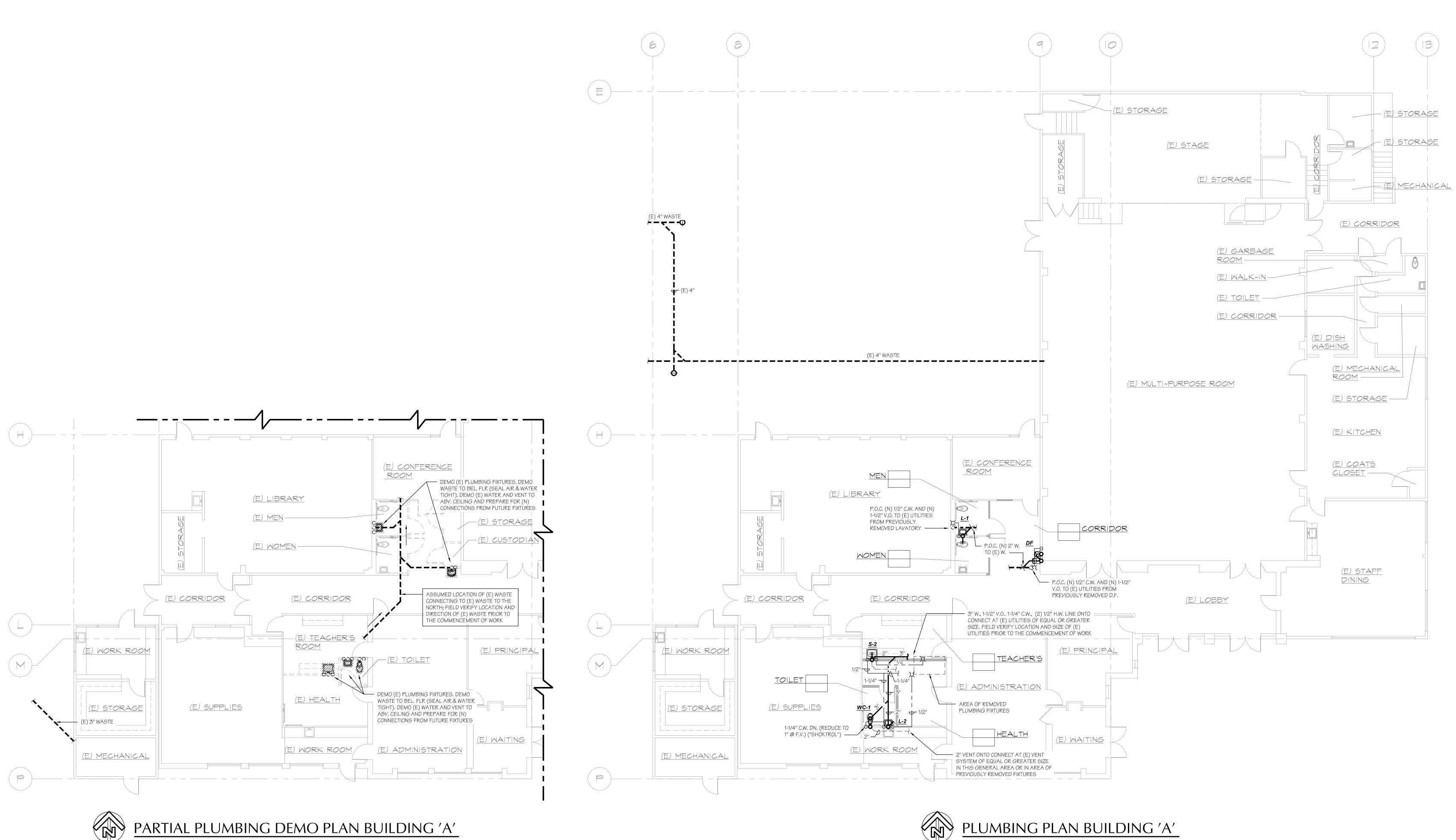
Standards and Guides:

- 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.









PARTIAL PLUMBING DEMO PLAN BUILDING 'A'

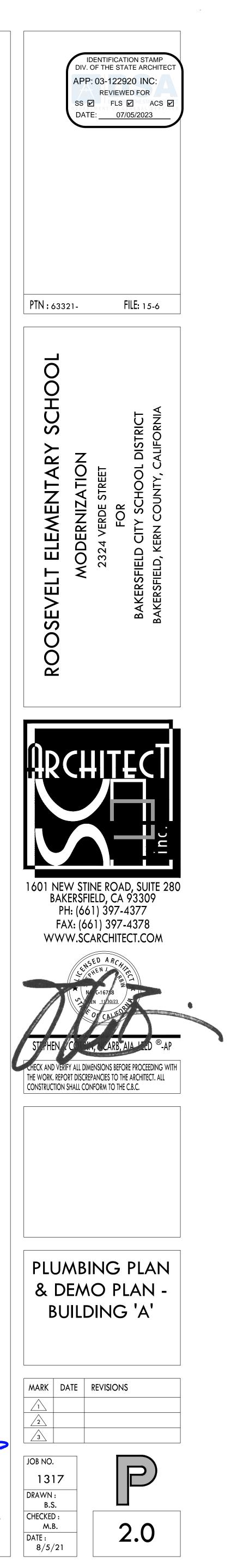
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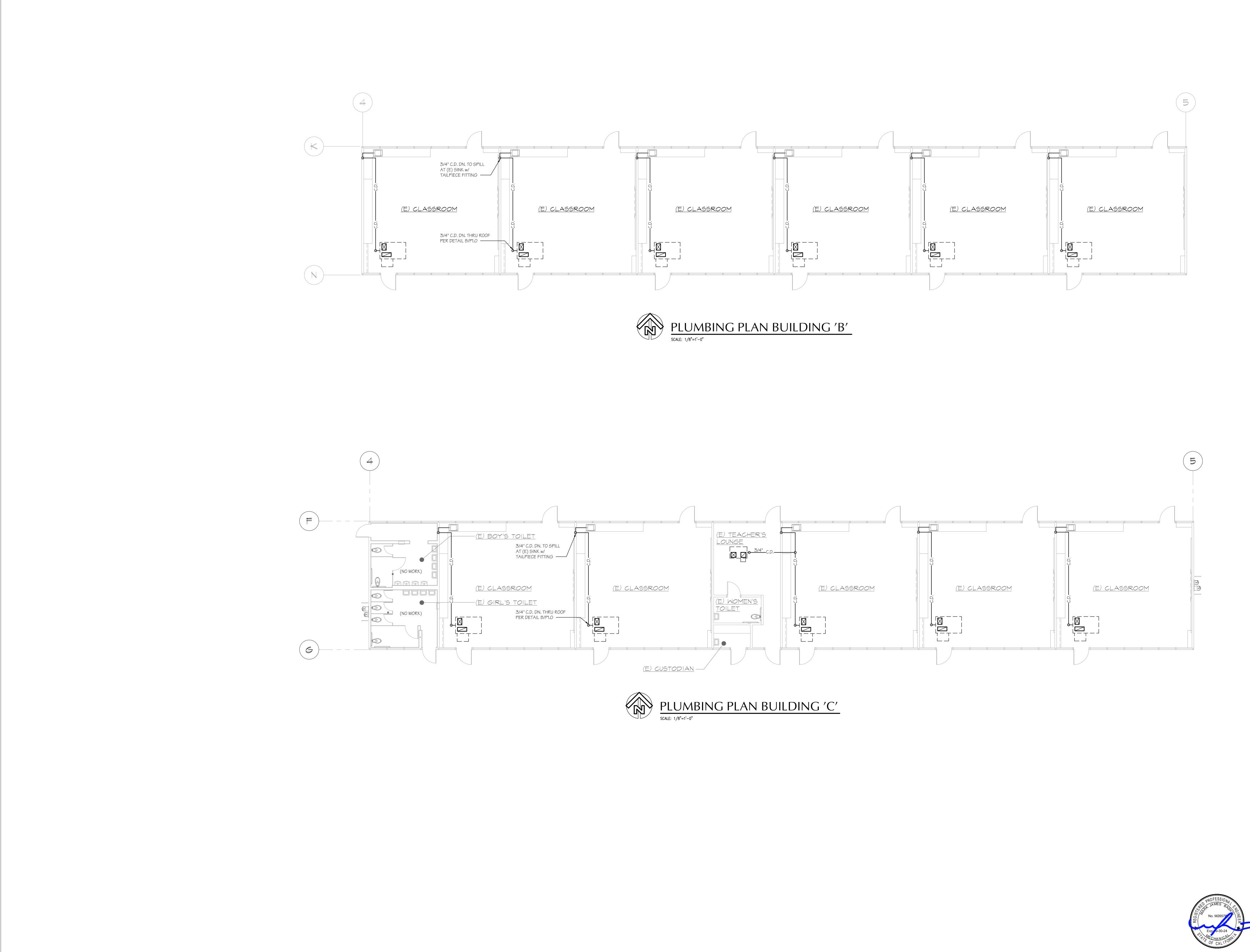
PLUMBING PLAN BUILDING 'A' SCALE: 1/8"=1'-0"



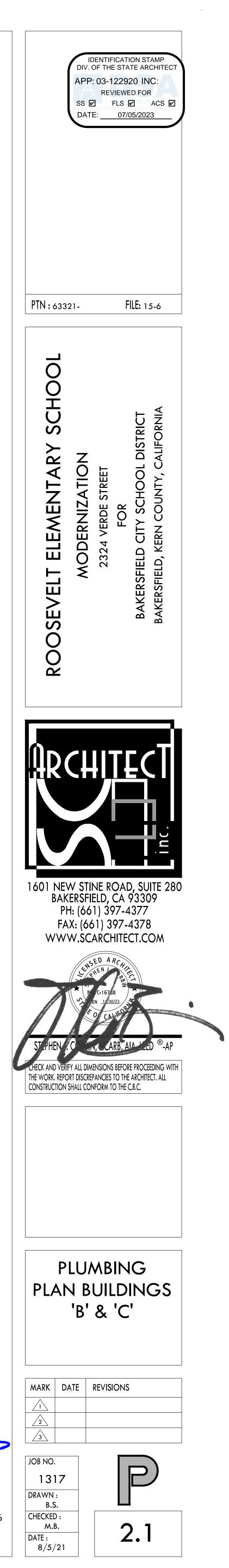
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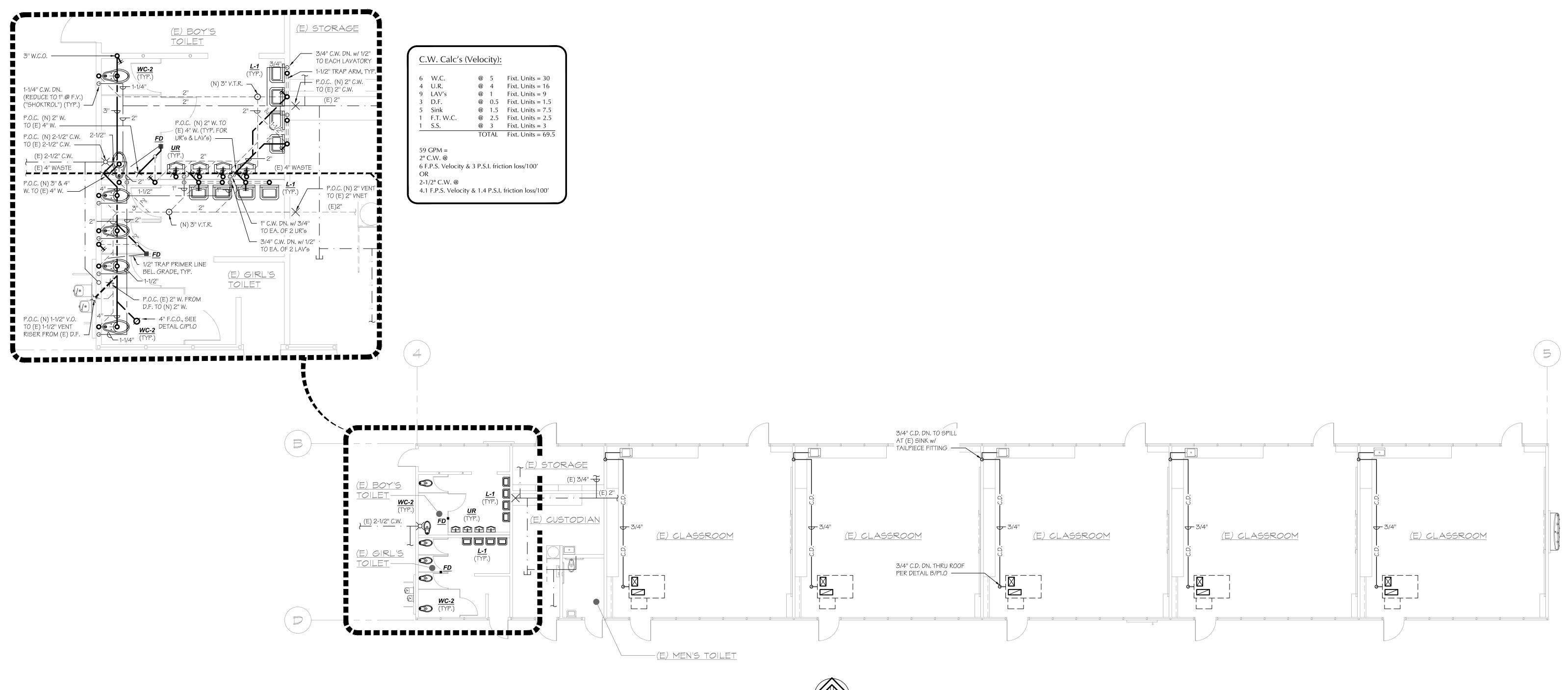




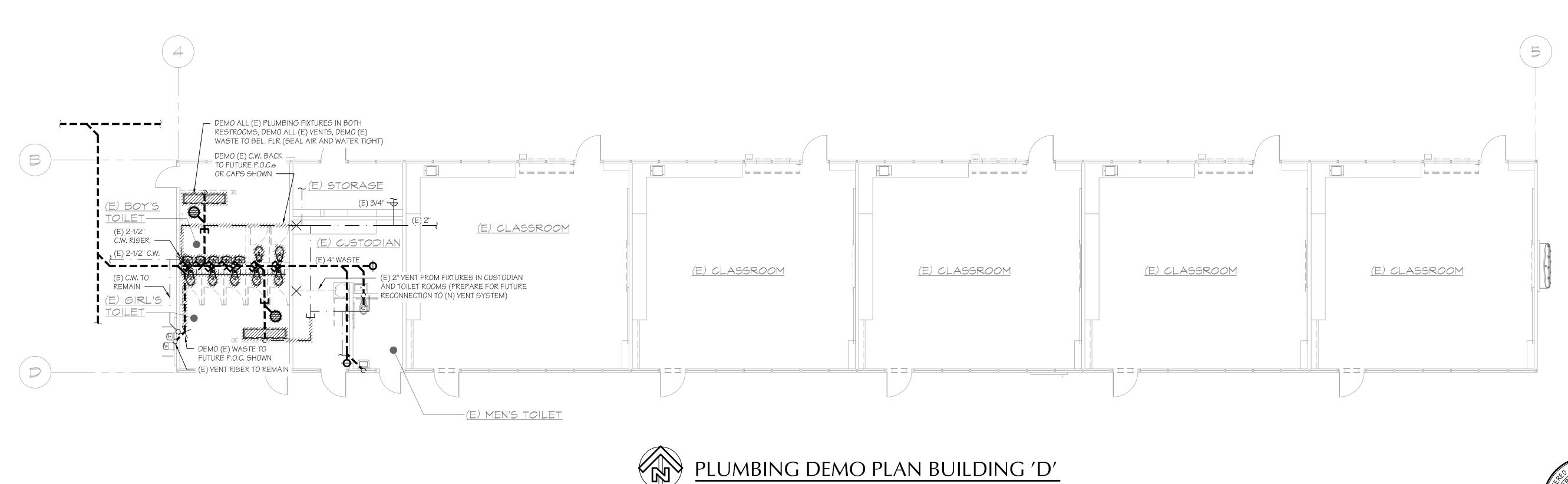








SCALE: 1/8"=1'-0"



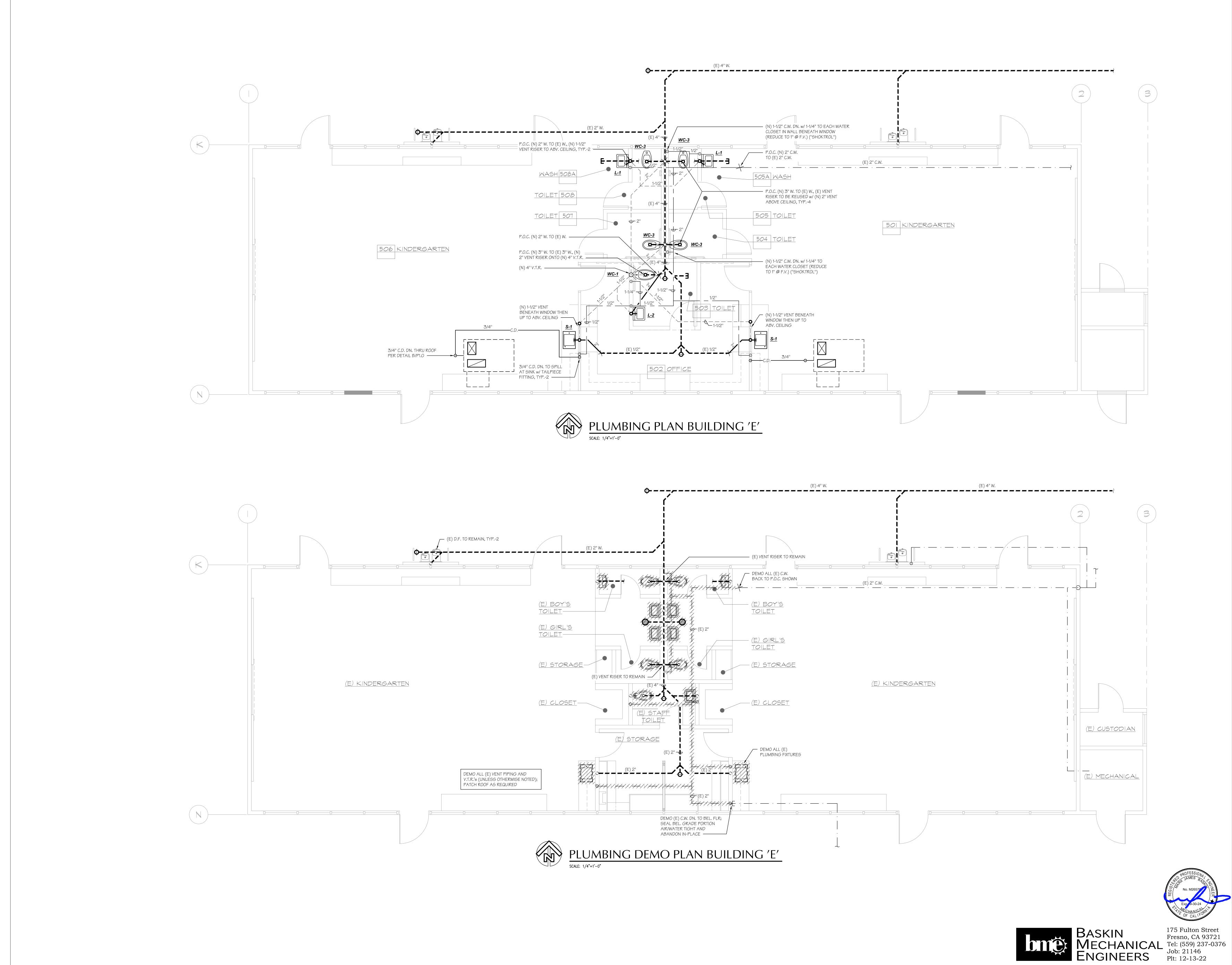
SCALE: 1/8"=1'-0"



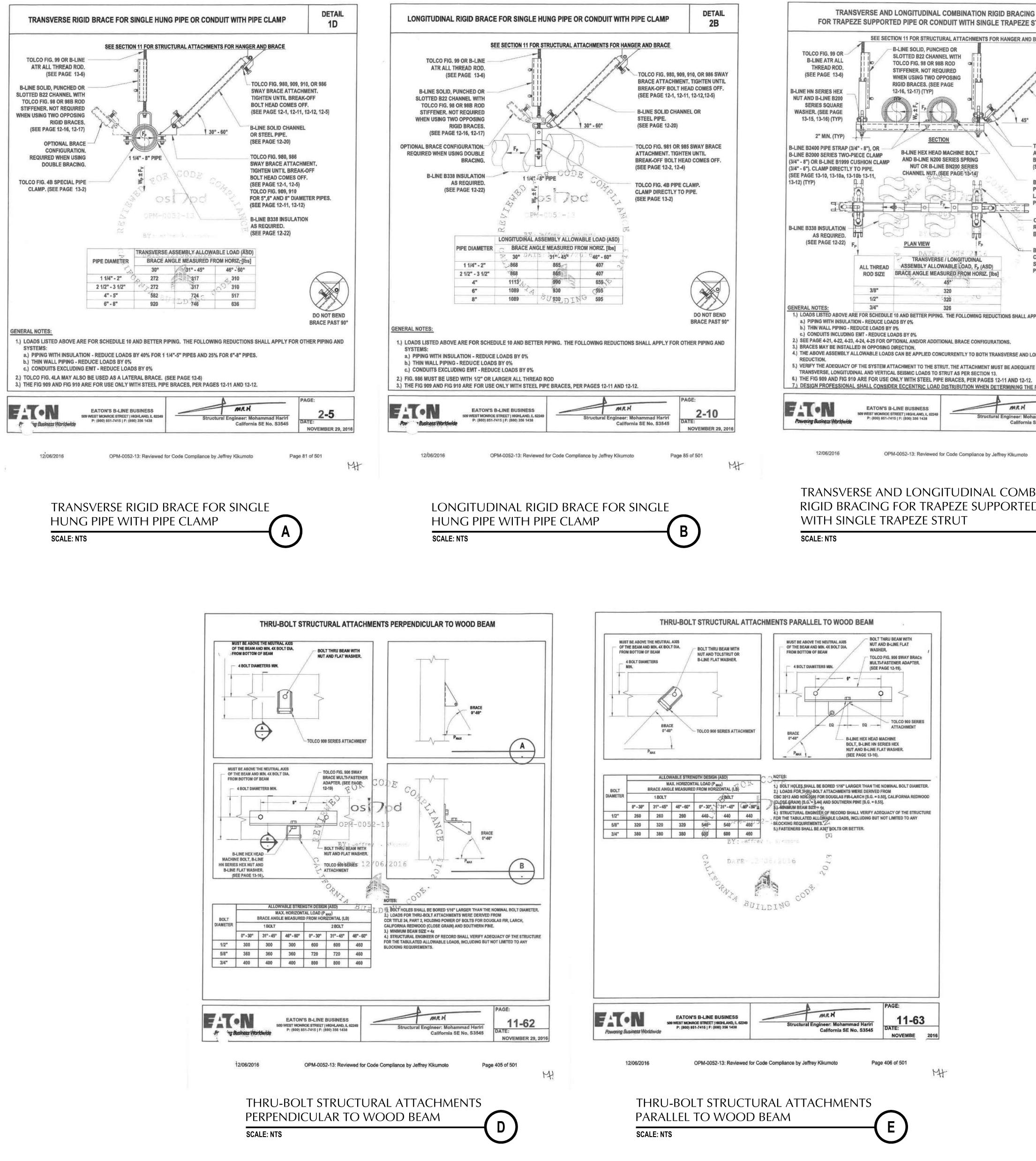
<u>Plumbing demo plan building 'd'</u>

PLUMBING PLAN BUILDING 'D'





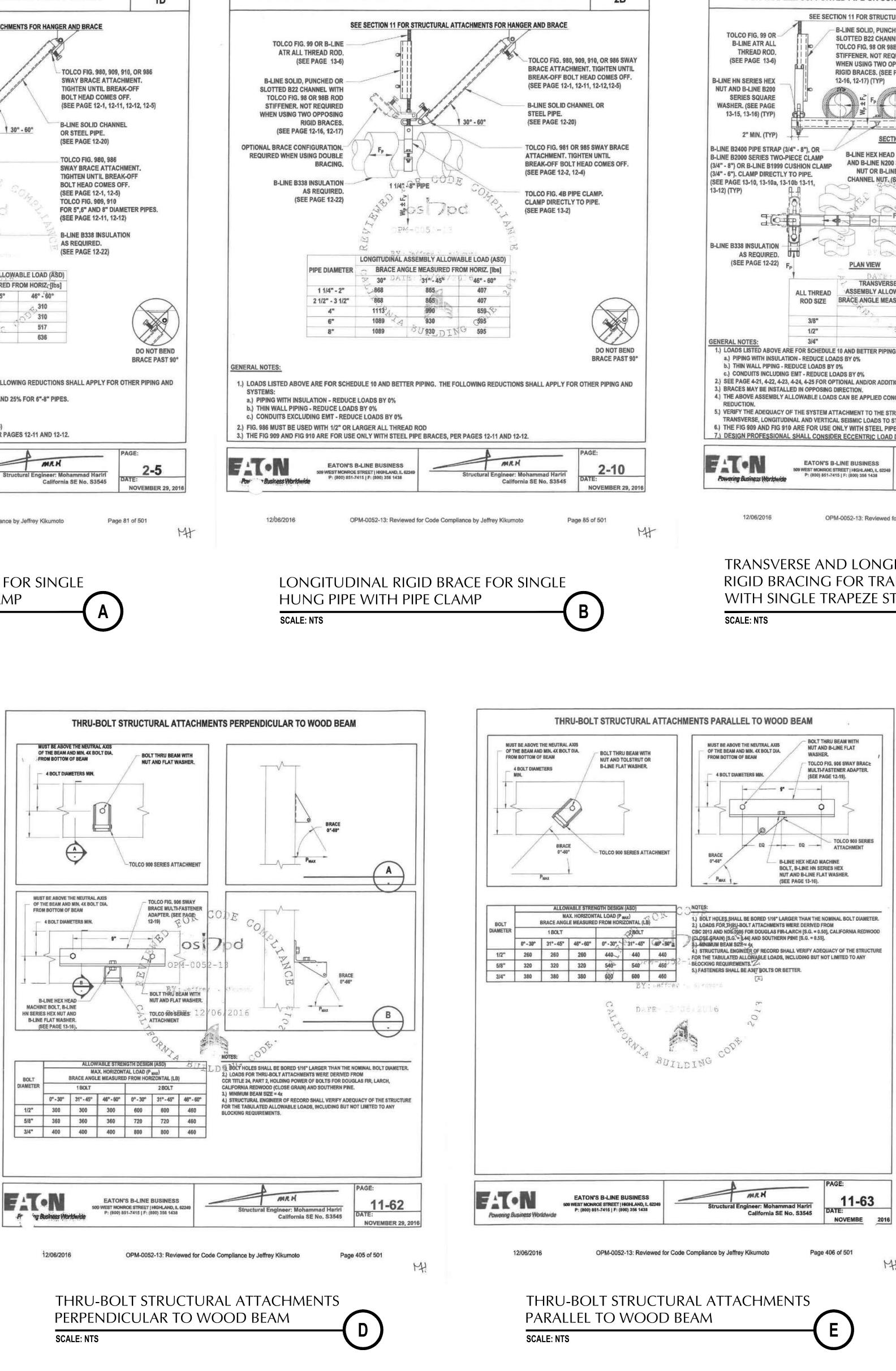








BOLT DIAMETER	
	0° - 30°
1/2"	300
5/8"	360
3/4**	400



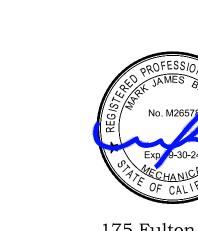






175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 21146 Plt: 12-13-22



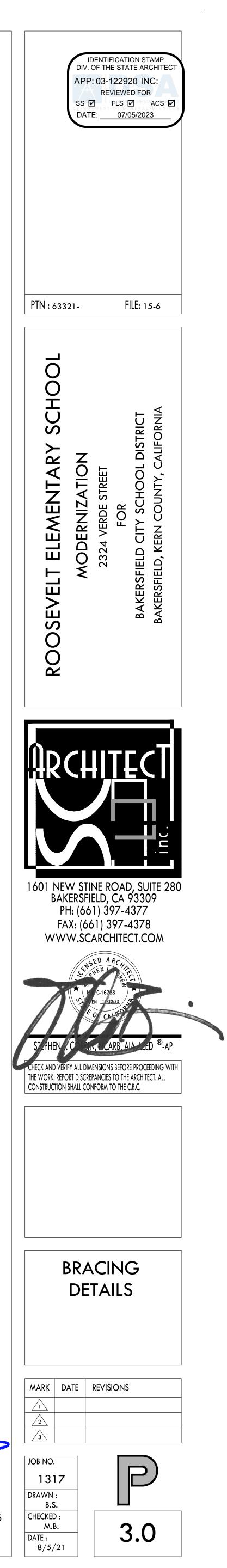


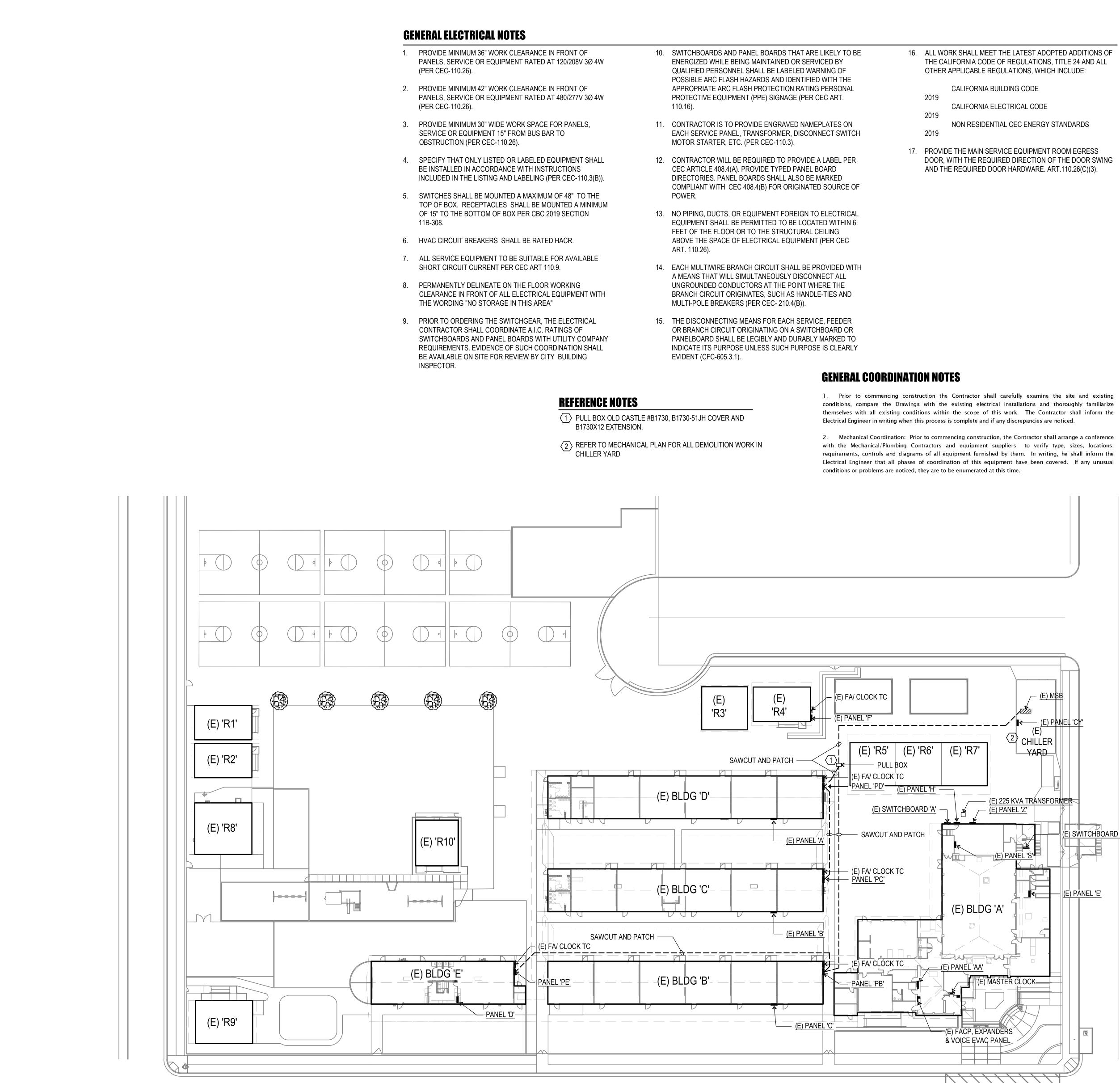
TRANSVERSE AND LONGITUDINAL COMBINATION **RIGID BRACING FOR TRAPEZE SUPPORTED PIPE** WITH SINGLE TRAPEZE STRUT

DETAIL FOR TRAPEZE SUPPORTED PIPE OR CONDUIT WITH SINGLE TRAPEZE STRUT 3/4 SEE SECTION 11 FOR STRUCTURAL ATTACHMENTS FOR HANGER AND BRACE B-LINE SOLID, PUNCHED OR SLOTTED B22 CHANNEL WITH TOLCO FIG. 98 OR 98B ROD STIFFENER, NOT REQUIRED - TOLCO FIG. 980, 909, 910, OR WHEN USING TWO OPPOSING 986 SWAY BRACE RIGID BRACES. (SEE PAGE ATTACHMENT. TIGHTEN UNTIL BREAK-OFF BOLT HEAD COMES OFF. (SEE PAGE 12-1, 12-11, 12-12, 12-5) B-LINE SOLID CHANNEL OR STEEL PIPE. (SEE PAGE 12-20) _____ (TYP) SECTION TOLCO FIG. 981, 985 SWAY BRACE B-LINE HEX HEAD MACHINE BOLT ATTACHMENT, TIGHTEN UNTIL AND B-LINE N200 SERIES SPRING BREAK-OFF BOLT HEAD COMES OFF. NUT OR B-LINE BN200 SERIES (SEE PAGE 12-2, 12-4) (TYP) CHANNEL NUT, (SEE PAGE 13-14) **B-LINE SOLID OR PUNCHED CHANNEL.** PUNCHED HOLE DIAMETER 1/16" MAX. LARGER THAN ROD DIAMETER. (SEE , PAGE 13-17, 13-18, 13-19, 13-20) (TYP) - O DHO - OPTIONAL BRACE CONFIGURATION. REQUIRED WHEN USING DOUBLE BRACING. (TYP) 0 - B-LINE SOLID CHANNEL OR TRANSVERSE / LONGITUDINAL STEEL PIPE. (SEE ASSEMBLY ALLOWABLE LOAD, Fp (ASD) PAGE 12-20) (TYP) BRACE ANGLE MEASURED FROM HORIZ. [Ibs] DO NOT BEND BRACE PAST 90° 1.) LOADS LISTED ABOVE ARE FOR SCHEDULE 10 AND BETTER PIPING. THE FOLLOWING REDUCTIONS SHALL APPLY FOR OTHER PIPING AND SYSTEMS: 2.) SEE PAGE 4-21, 4-22, 4-23, 4-24, 4-25 FOR OPTIONAL AND/OR ADDITIONAL BRACE CONFIGURATIONS. 4.) THE ABOVE ASSEMBLY ALLOWABLE LOADS CAN BE APPLIED CONCURRENTLY TO BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS WITHOUT 5.) VERIFY THE ADEQUACY OF THE SYSTEM ATTACHMENT TO THE STRUT. THE ATTACHMENT MUST BE ADEQUATE TO TRANSFER TRANSVERSE, LONGITUDINAL AND VERTICAL SEISMIC LOADS TO STRUT AS PER SECTION 13. 6.) THE FIG 909 AND FIG 910 ARE FOR USE ONLY WITH STEEL PIPE BRACES, PER PAGES 12-11 AND 12-12. 7.) DESIGN PROFESSIONAL SHALL CONSIDER ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE F , VALUE USED IN DESIGN. MRH 4-3 509 WEST MONROE STREET | HIGHLAND, IL 62249 Structural Engineer: Mohammad Hariri California SE No. S3545 DATE: NOVEMBER 2016

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С





ELECTRICAL SITE PLAN

SCALE : 1" = 30'-0" 0 15' 30' 45' 60'

	ELECTRICAL SYME	BOL SCHEDULE
SYMBOL	NAME	DESCRIPTION
D	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
	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
ем ем ——————————————————————————————————	ILLUMINATED EXIT SIGN	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
•••••••••••••••••••••••••••••••••••••••	OCCUPANCY MOTION SENSOR	ABL-nLIGHT
© w	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +44"	ABL-SENSOR SWITCH
——	TO TOP OF BOX, U.O.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 CON
фм	WALL MOTION DIMMER SWITCH	ABL nLIGHT
—— ф wc——	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER	ABL-nLIGHT
m p wc	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER WITH INTEGRAL OCCUPANCY SENSOR	ABL-nLIGHT
—2ф 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
Φ	DUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO	20A, NEMA GROUNDED
Φ	BOTTOM OF BOX. U.O.N. WEATHERPROOF CONVENIENCE OUTLET MOUNTED @ +15" MIN.	20A, NEMA GROUNDED
	TO BOTTOM OF BOX. U.O.N. QUADDUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO	20A, NEMA GROUNDED
— ZZ —	BOTTOM OF BOX. U.O.N. ELECTRICAL SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
— Z —	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.
()	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 STUBS TO ACCESSIBLE ATTIC SPACE. (1) DATA CABLE, (CABLE WITH JACKS MINIMUM
$ \nabla$	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.	
©	PA SPEAKER, FLUSH CEILING MOUNTED U.O.N.	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
<u>S</u> wp	EXTERIOR PA SPEAKER WALL MTD @+9'-6" UON (WEATHERPROOF)	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
<u>so</u>	CLOCK / PA SPEAKER COMBINATION @+7'-6" UON	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
нт∨	TELEVISION / VIDEO OUTLET	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
®	PROGRAM BELL	
—— W ——	SECURITY MICROPHONE MT'D ABOVE DOOR U.O.N.	PROVIDED BY SCHOOL DISTRICT, INSTALLED BY E.C.
0	SECURITY DOOR CONTACT	SEE SPECS
	SURFACE RACEWAY W/ OUTLETS & DATA JACKS	WIREMOLD 5400 SERIES SYSTEM. INSTALL DUPLEX / QU. RECEPTACLES AND DATA JACK AS INDICATED ON PLAN
PP	POWER PACK 0-10V DIMMING	ABL-nLIGHT
PPI	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 COND
	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	
<u>→ 'A-15'</u>	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	

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.

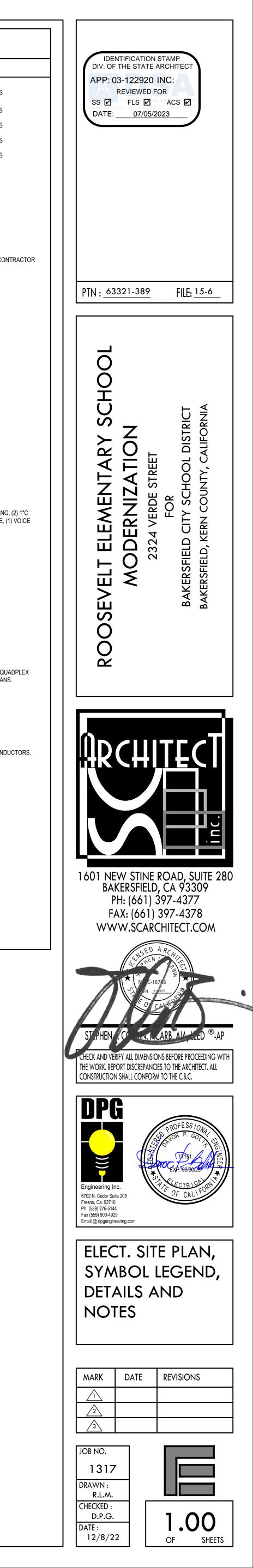
The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g. OSHPD OPM for 2013 CBC or later), Copies of the bracing system installation guide or manual shall 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.

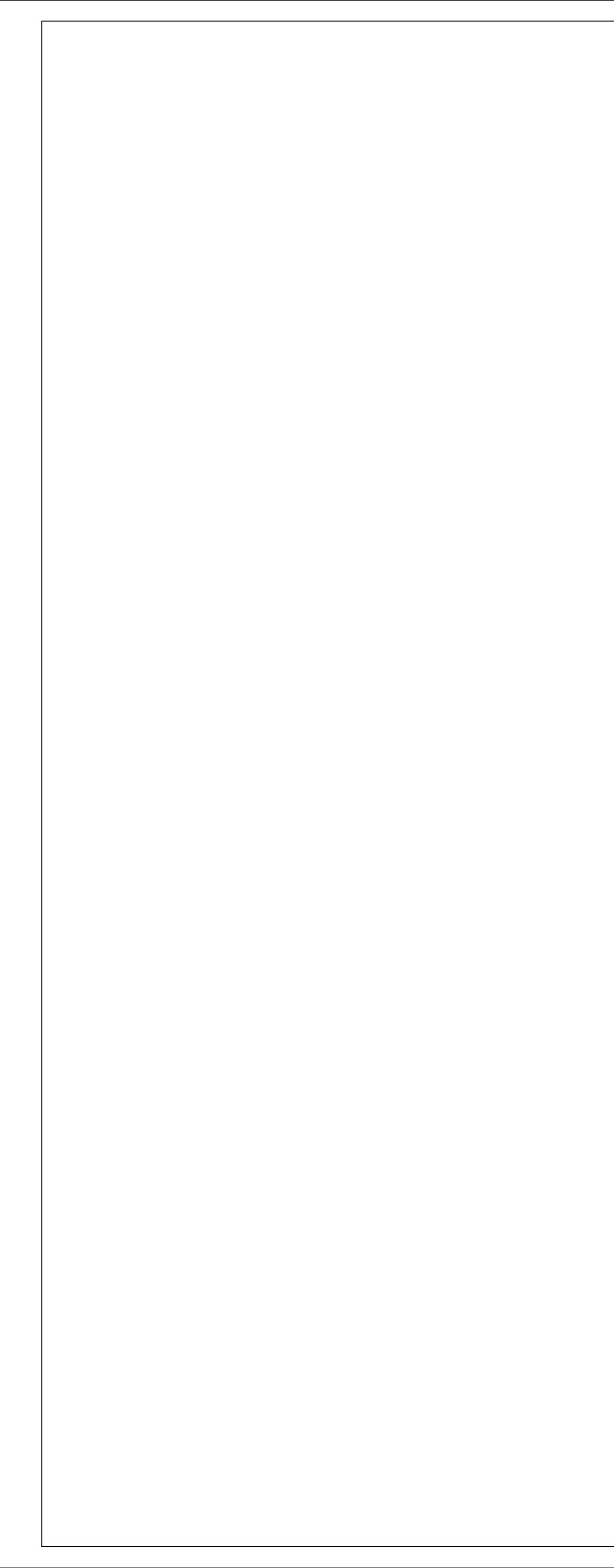
Mechanical piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems(E):

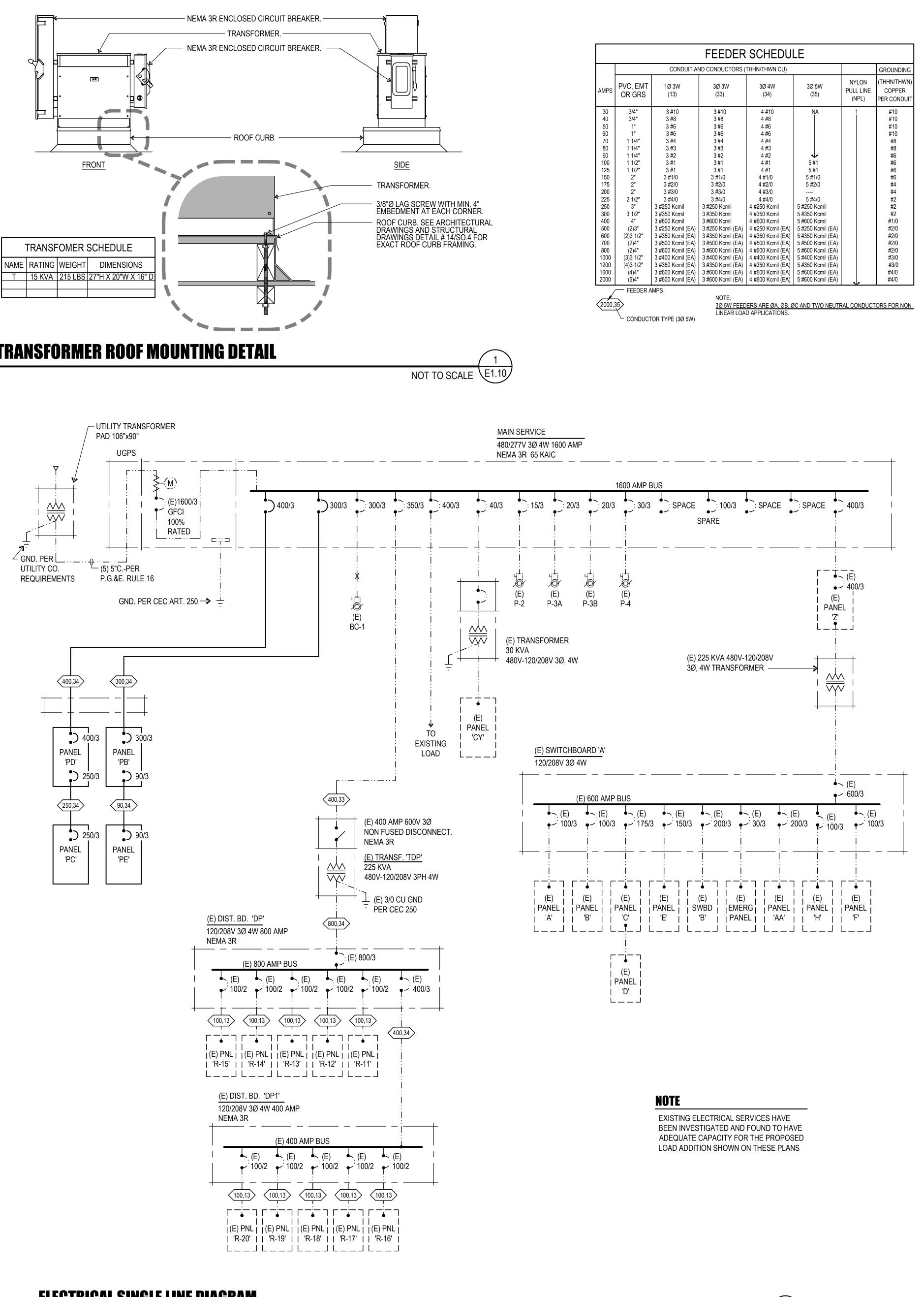
MP MD PP EX Option 1: Detailed on the approved drawings with project specific notes and details.

MP MD PP E Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #OPM-0052-13

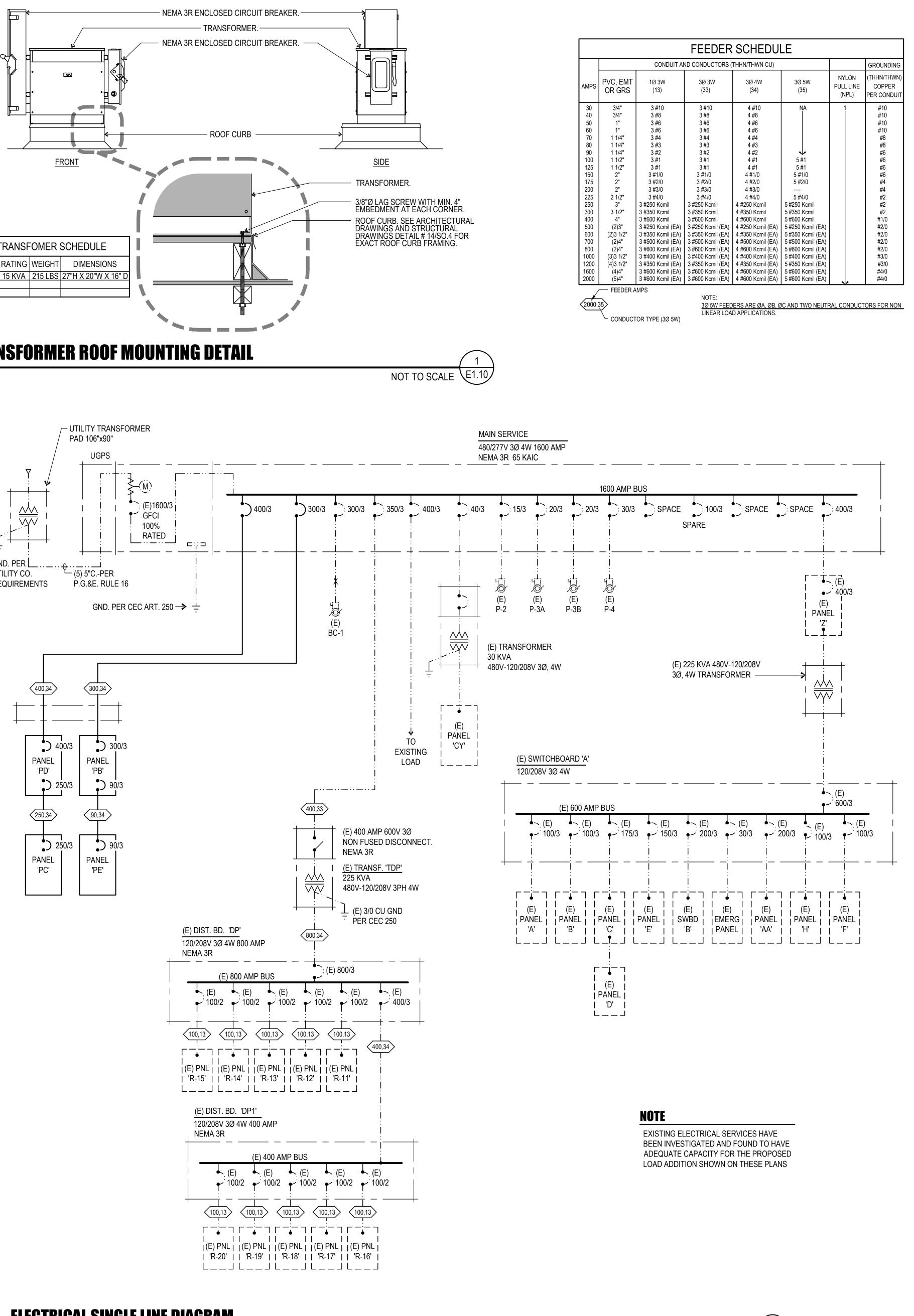








TRANSFORMER ROOF MOUNTING DETAIL

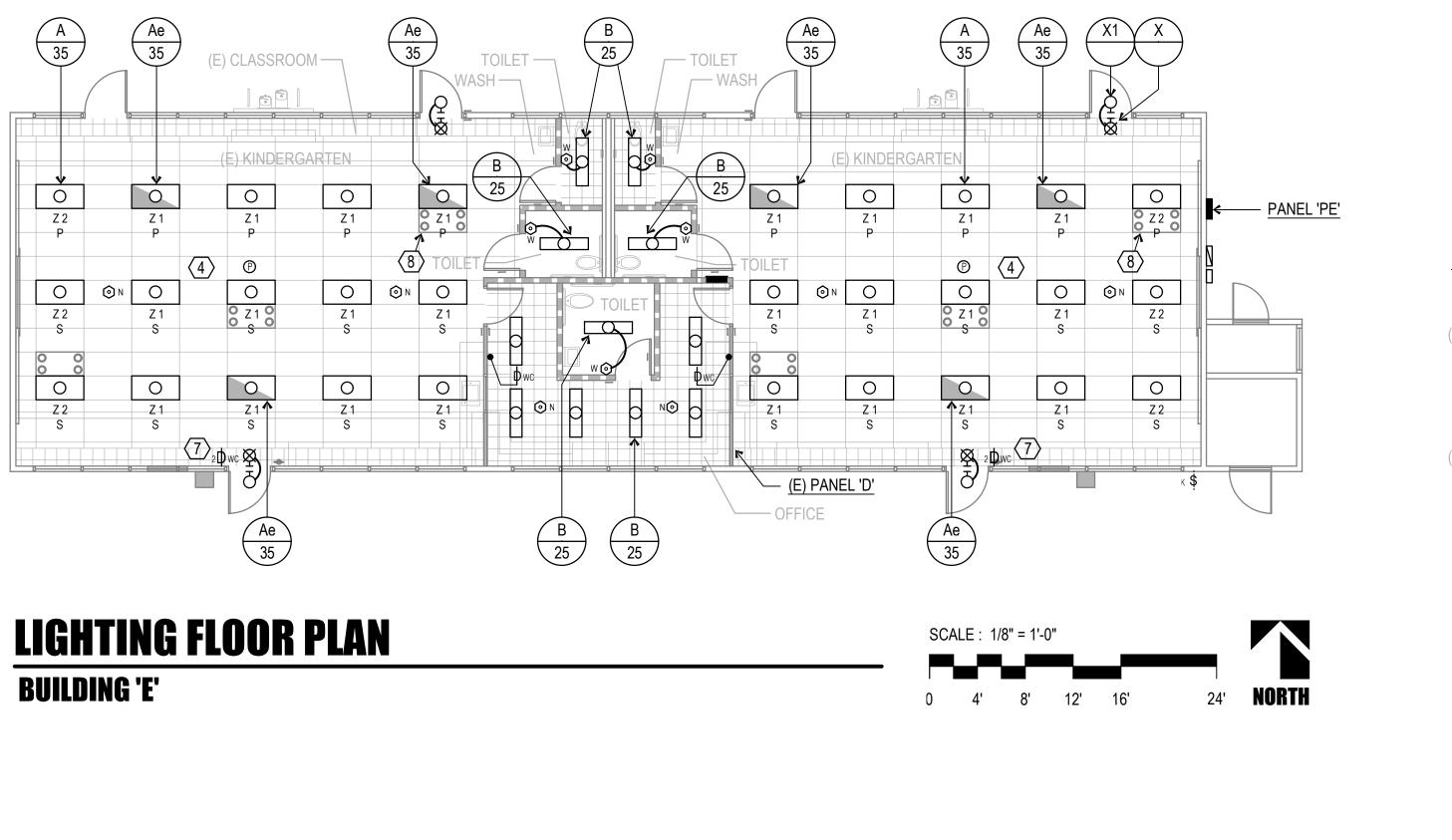


ELECTRICAL SINGLE LINE DIAGRAM

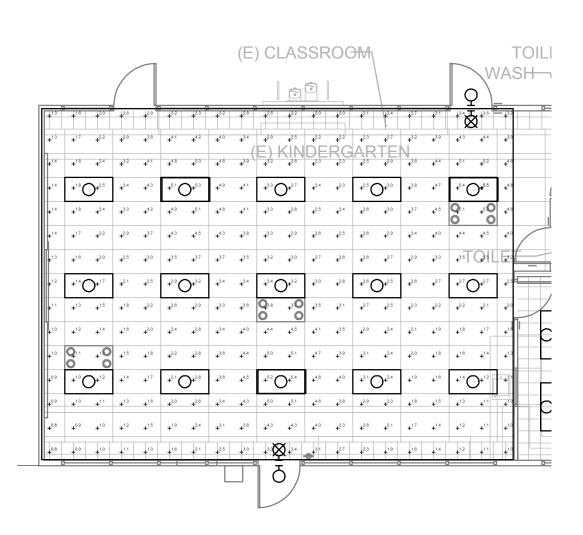
-

NOT TO SCALE LE1.10

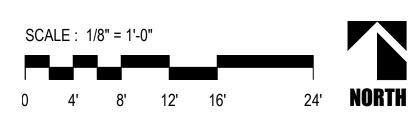






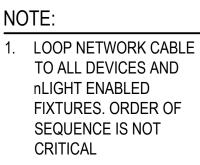


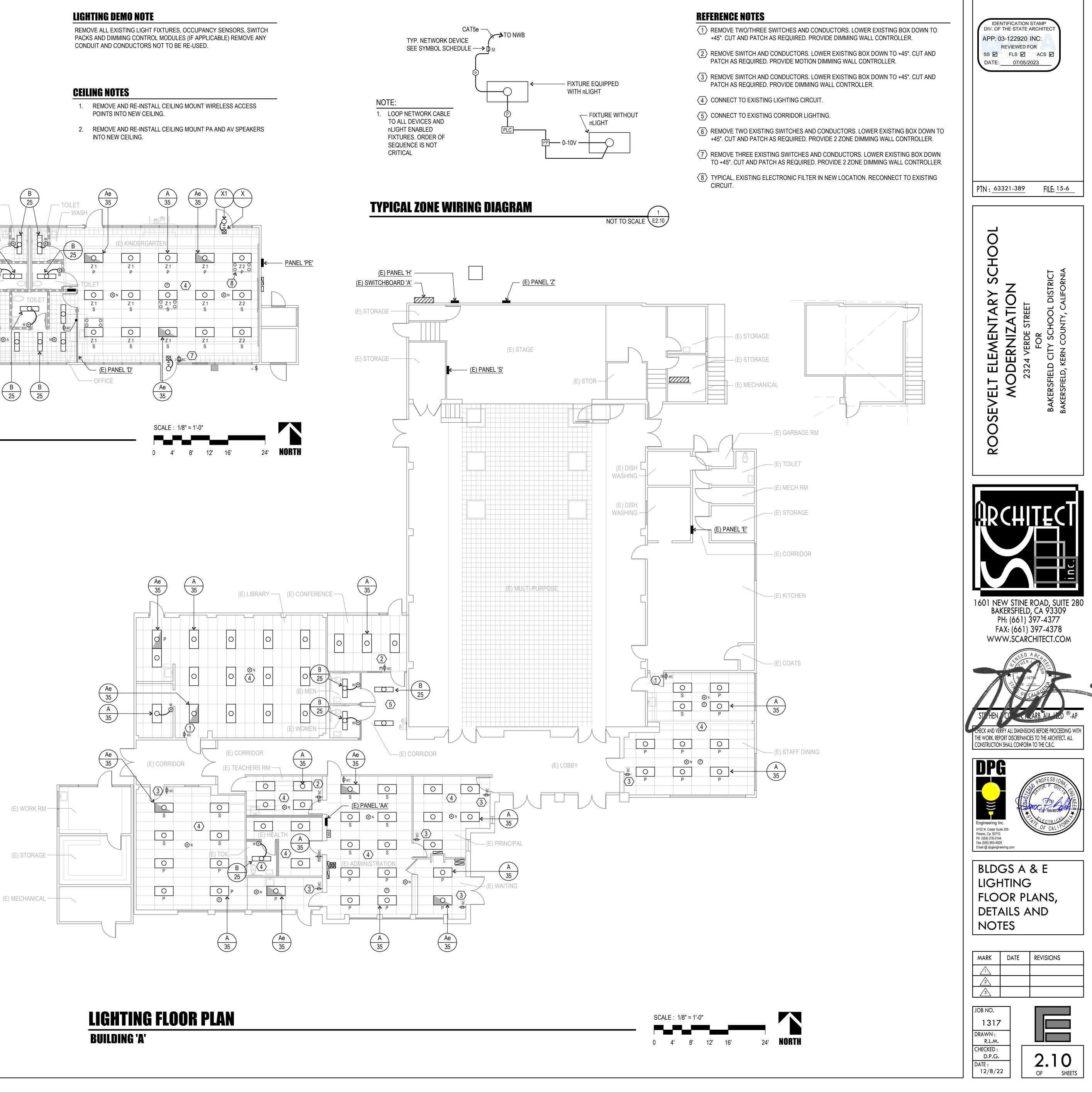
EMERGENCY LIGHTING POINT BY POINT

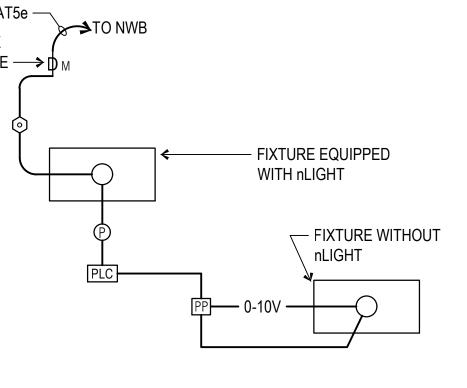


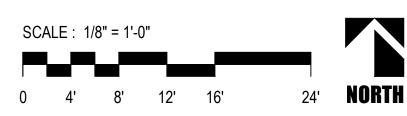
BUILDING 'E'

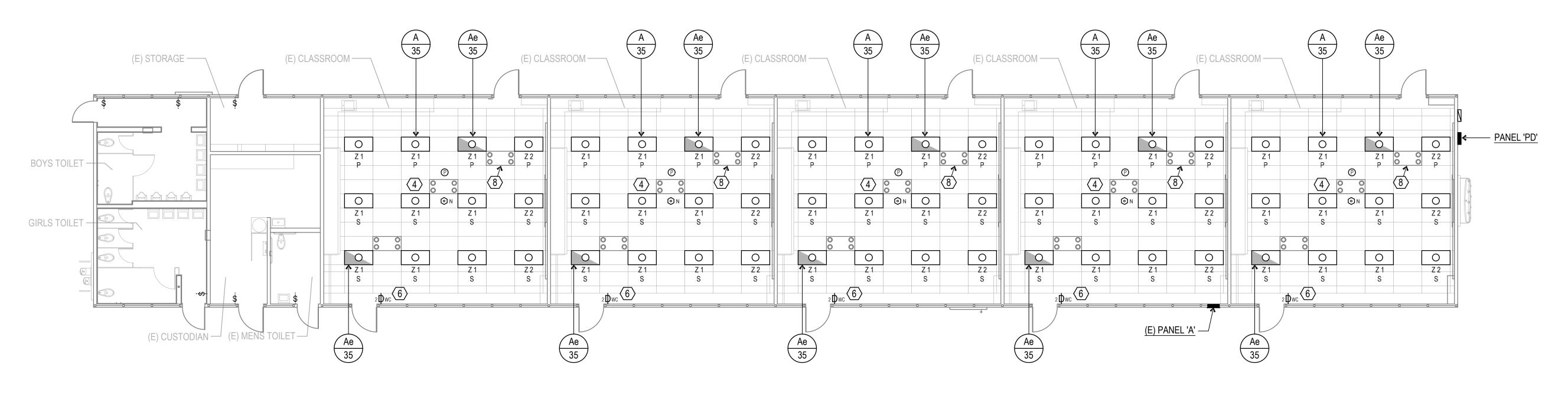
- POINTS INTO NEW CEILING.
- INTO NEW CEILING.



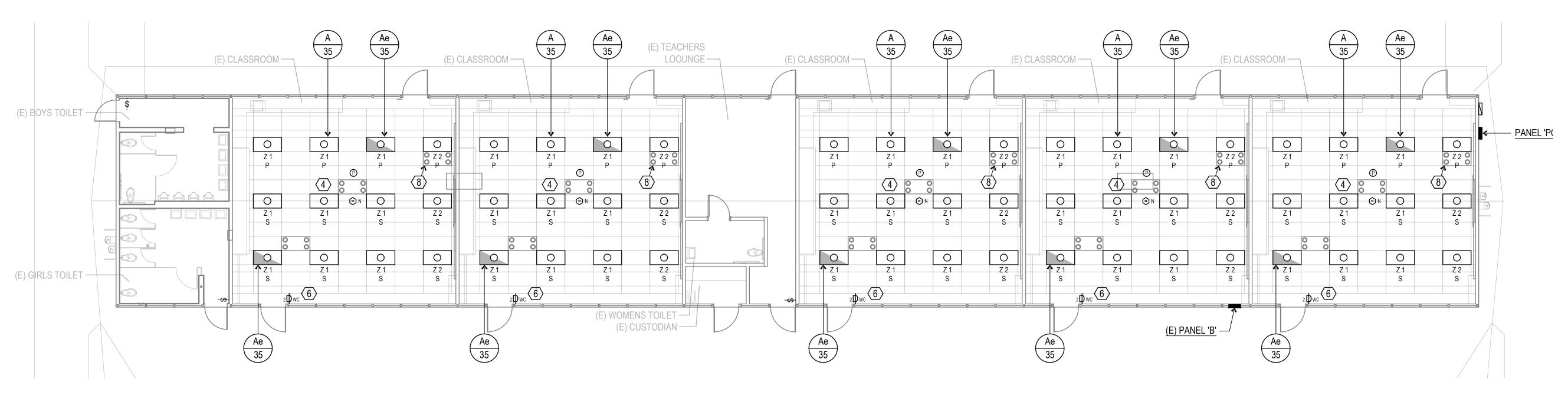




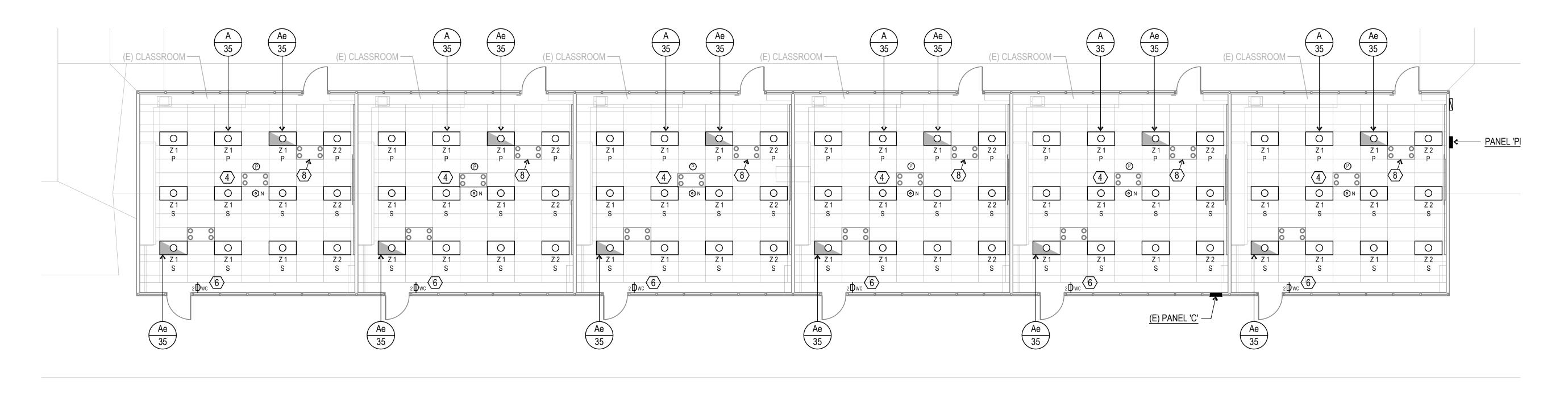




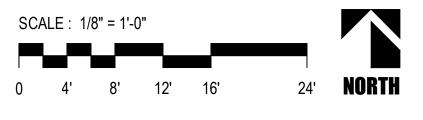
LIGHTING FLOOR PLAN BUILDING 'D'



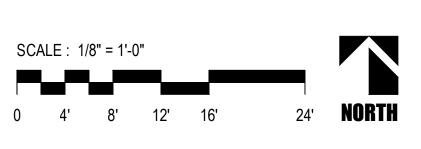
LIGHTING FLOOR PLAN BUILDING 'C'



LIGHTING FLOOR PLAN BUILDING 'B'



SCALE : 1/8" = 1'-0" NORTH 0 4' 8' 12' 16' 24'



REFERENCE NOTES

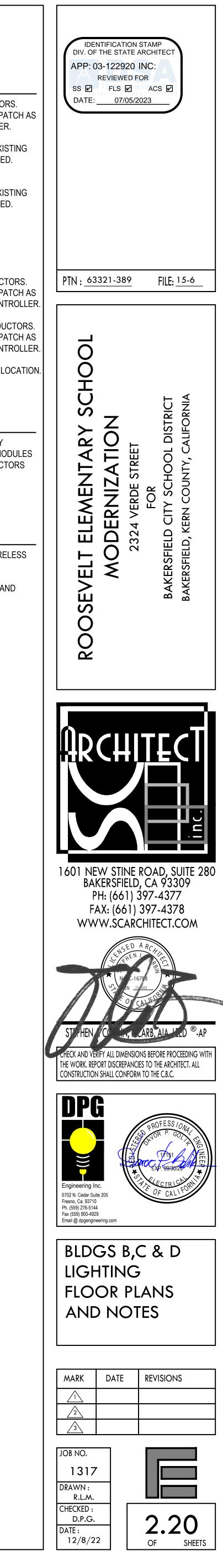
- (1) REMOVE TWO/THREE SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
- $\langle 2 \rangle$ REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
- (3) REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
- $\langle 4 \rangle$ CONNECT TO EXISTING LIGHTING CIRCUIT
- $\langle 5 \rangle$ CONNECT TO EXISTING CORRIDOR LIGHTING.
- 6 REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER
- $\langle 7 \rangle$ REMOVE THREE EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
- (8) TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

LIGHTING DEMO NOTE

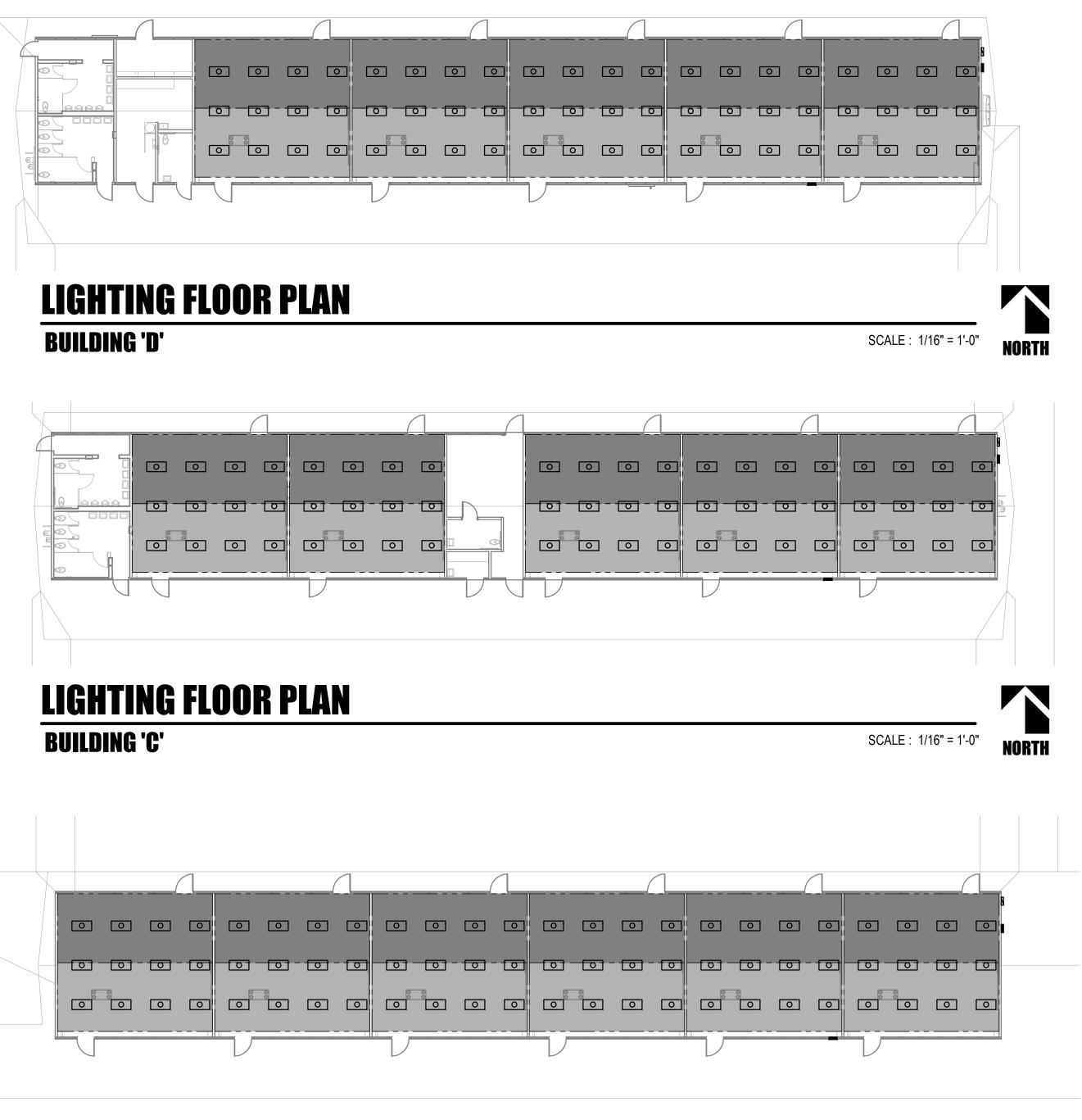
REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

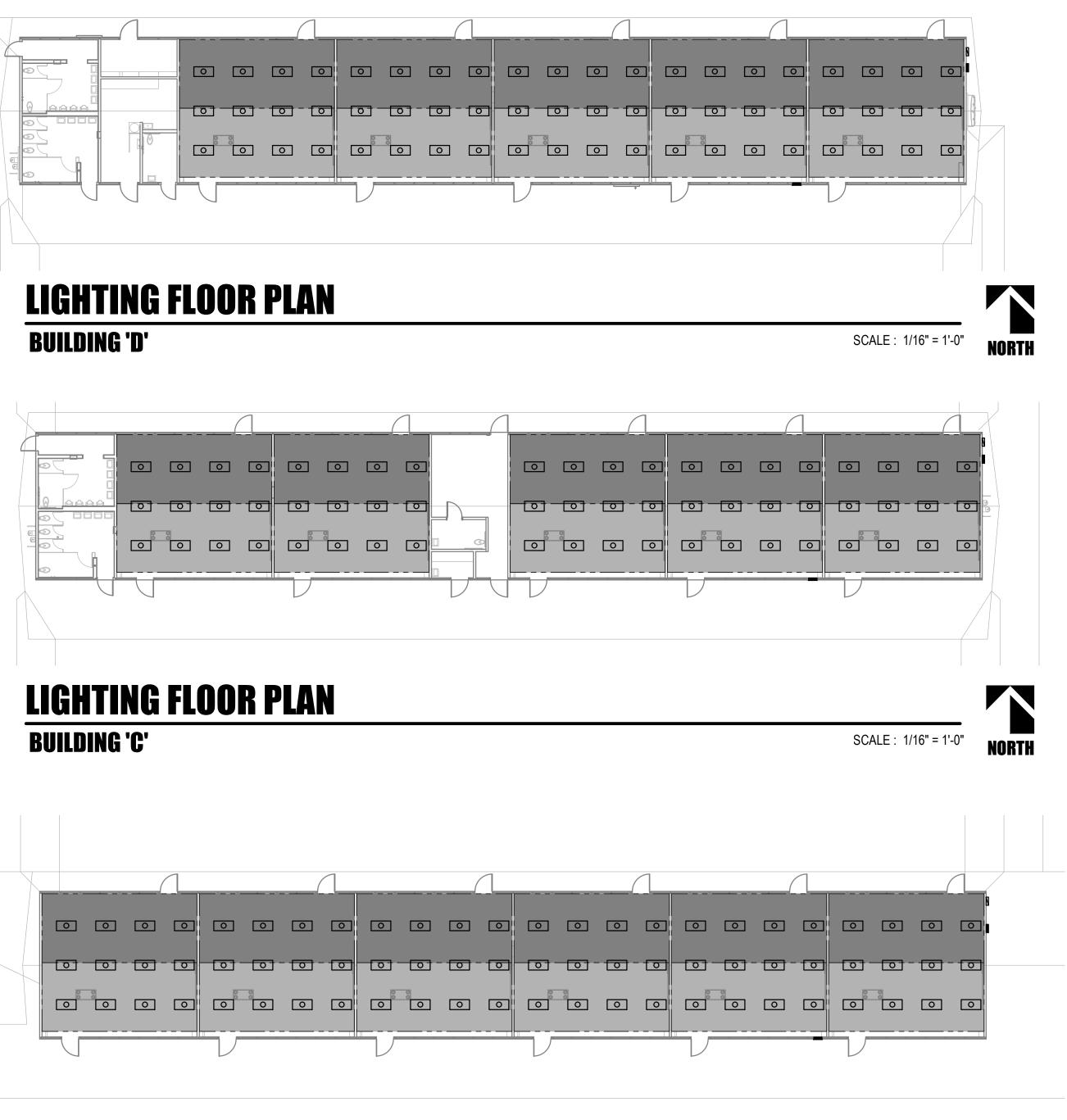
CEILING NOTES

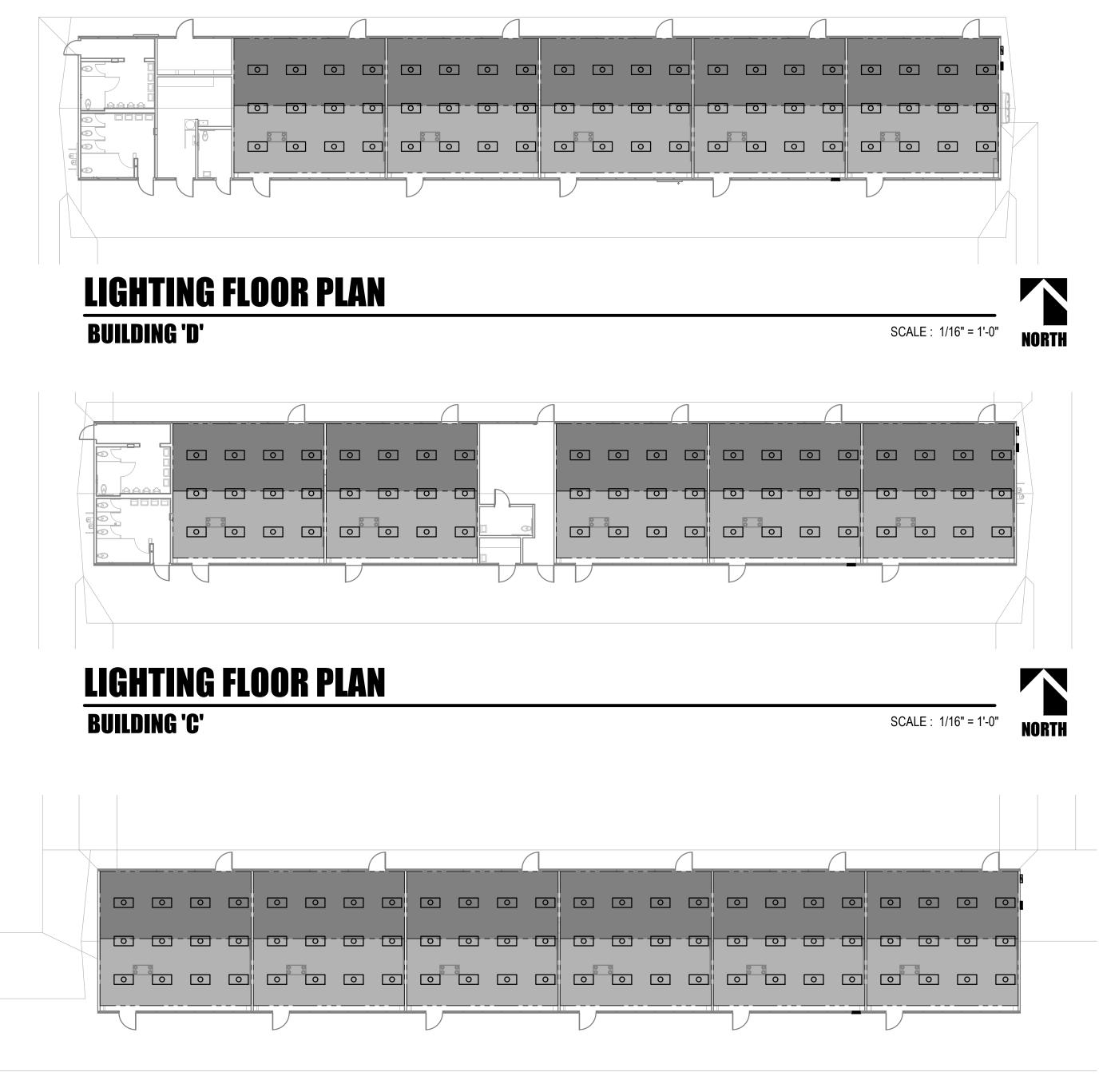
- 1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
- REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.











BUILDING 'B'

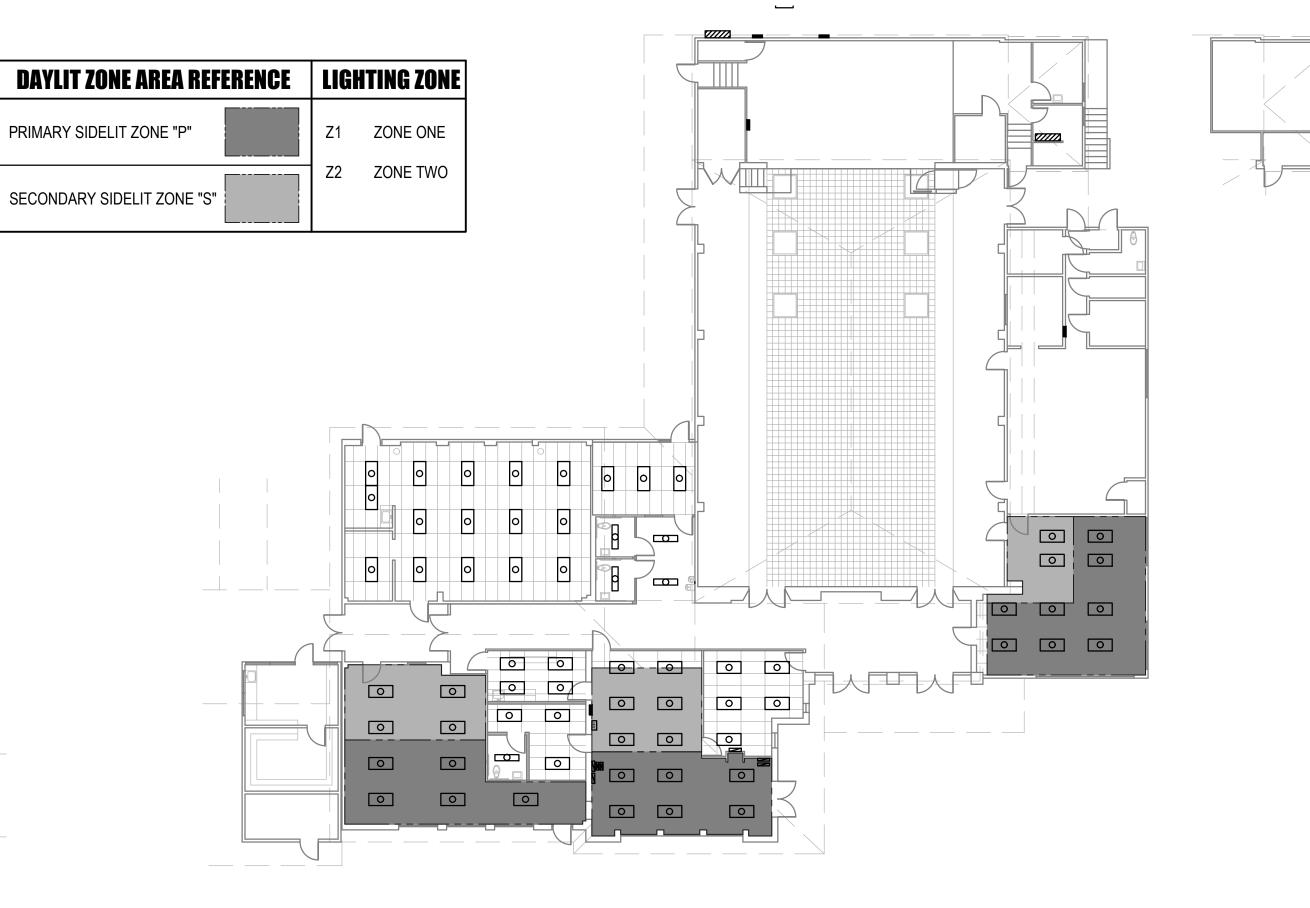
GENERAL TITLE 24 LIGHTING NOTES:

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.

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LOO	R	PL	AN	

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

NORTH

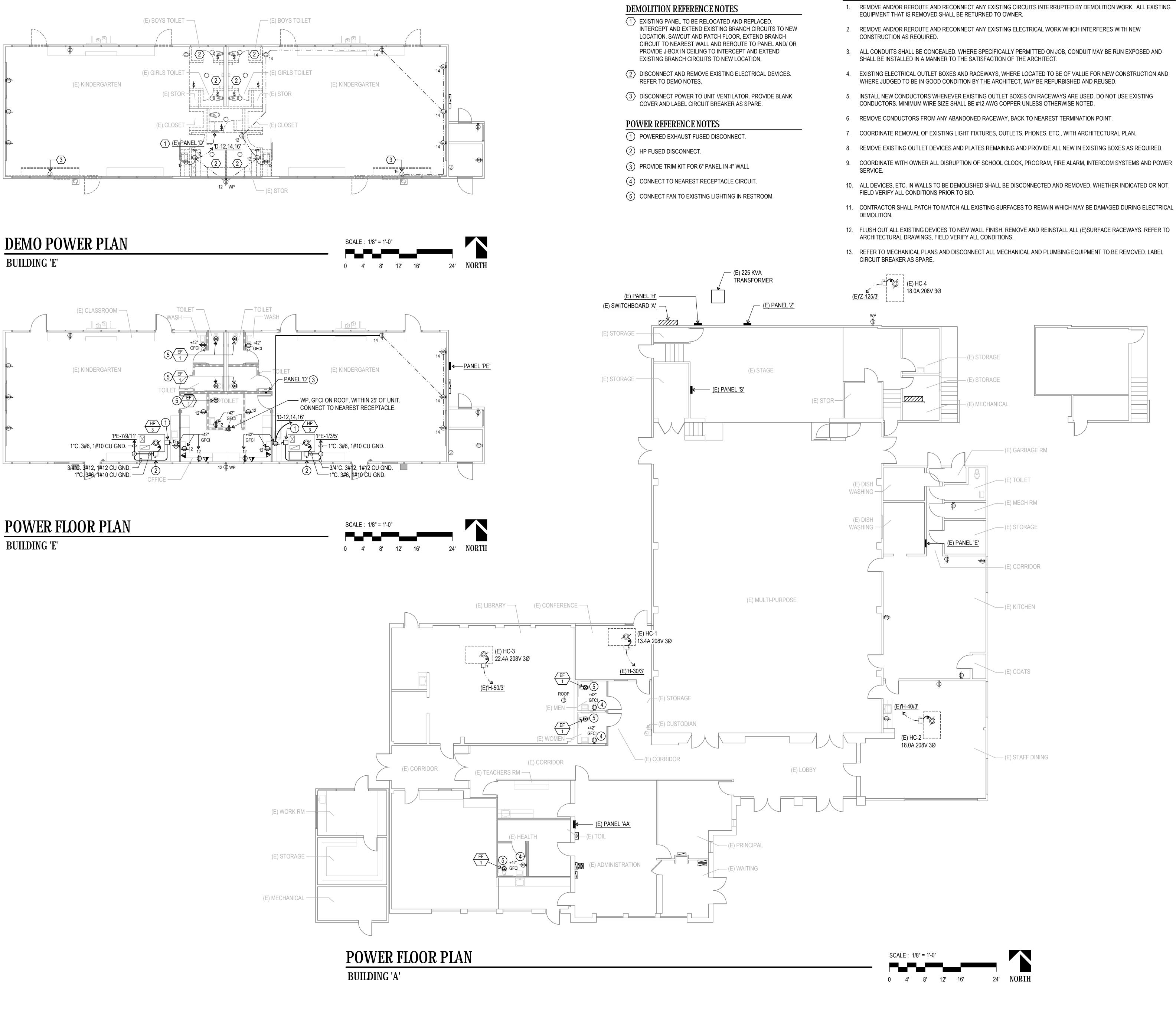


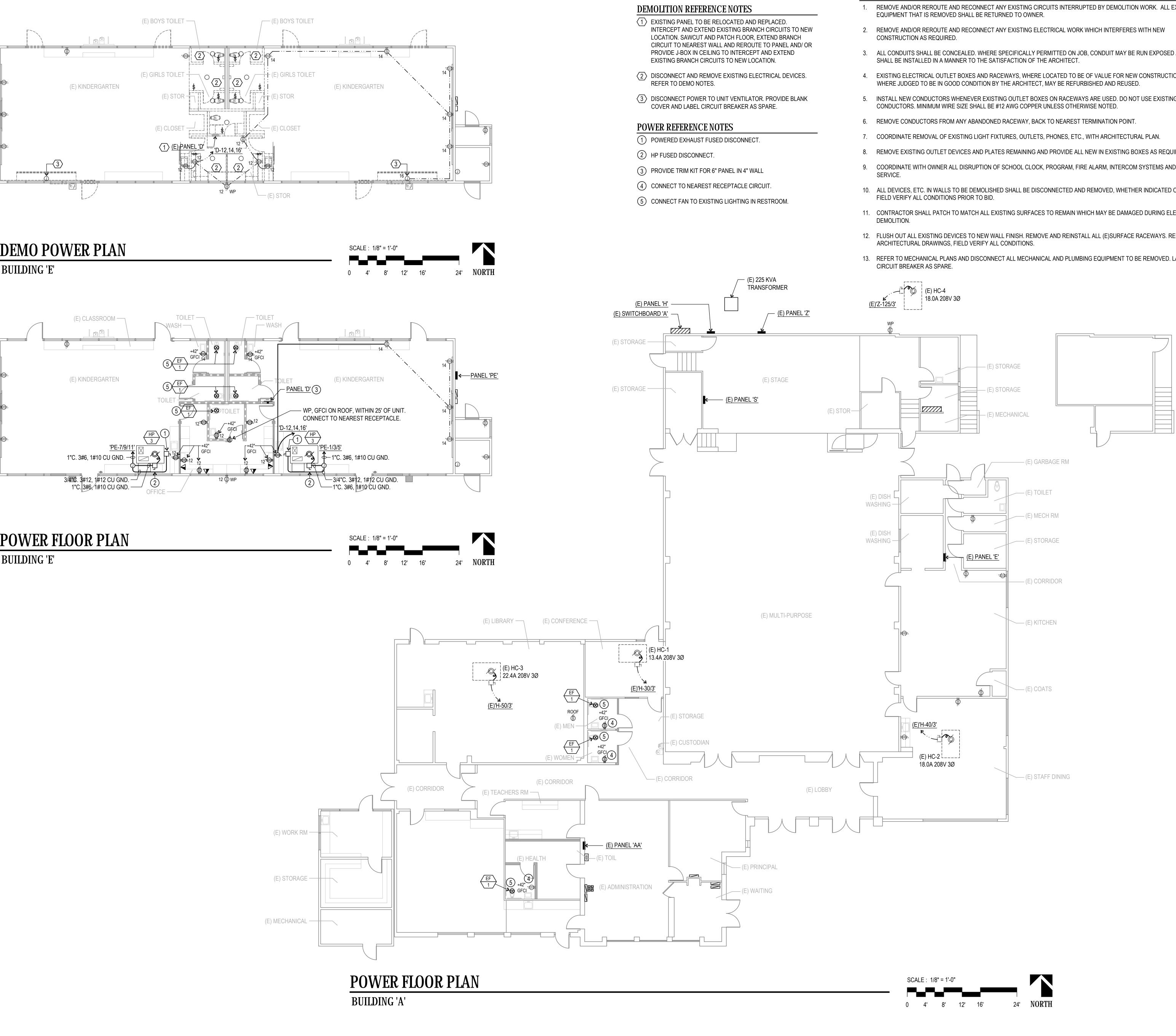












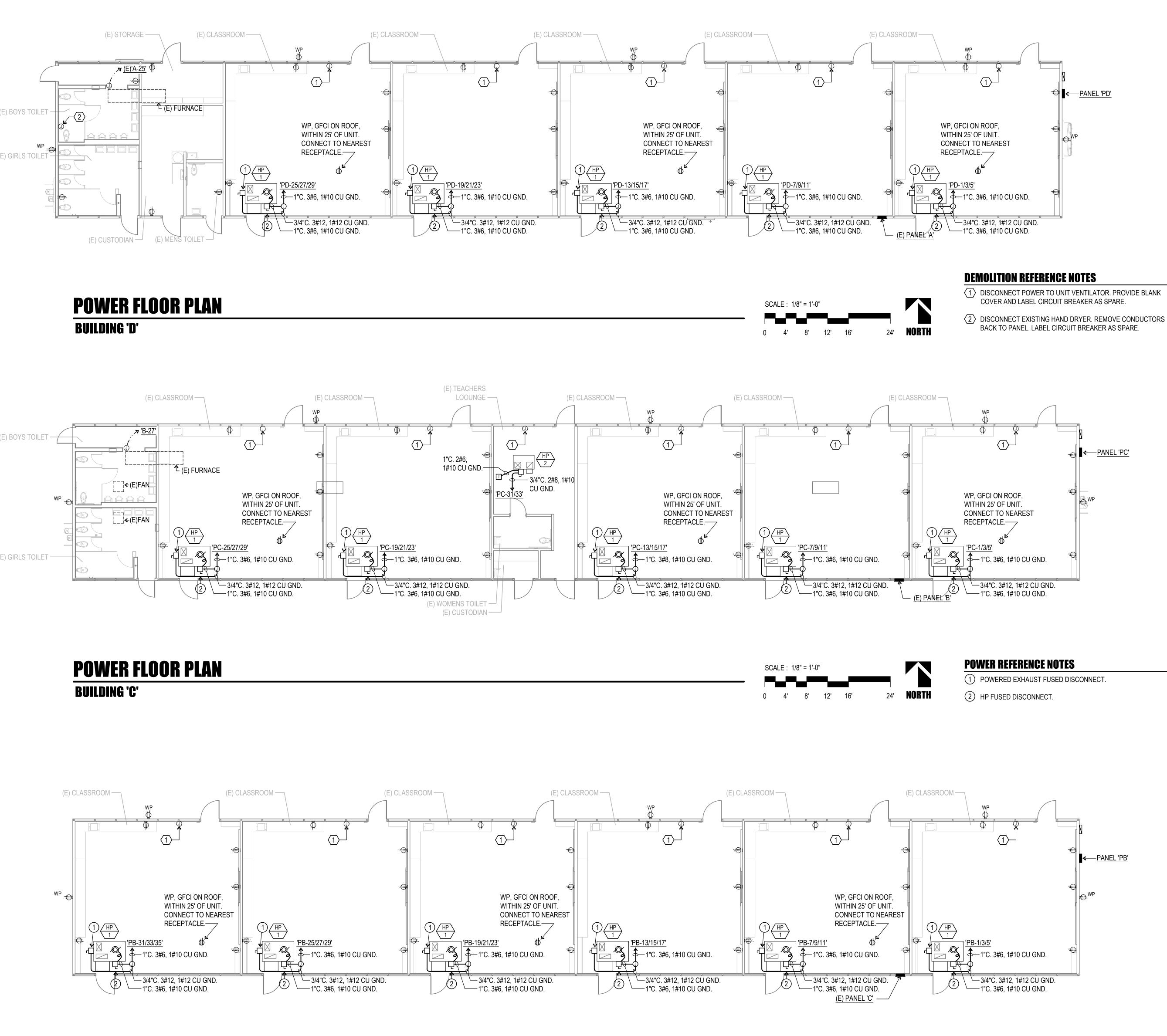
DEMOLITION NOTES:

- INSTALL NEW CONDUCTORS WHENEVER EXISTING OUTLET BOXES ON RACEWAYS ARE USED. DO NOT USE EXISTING

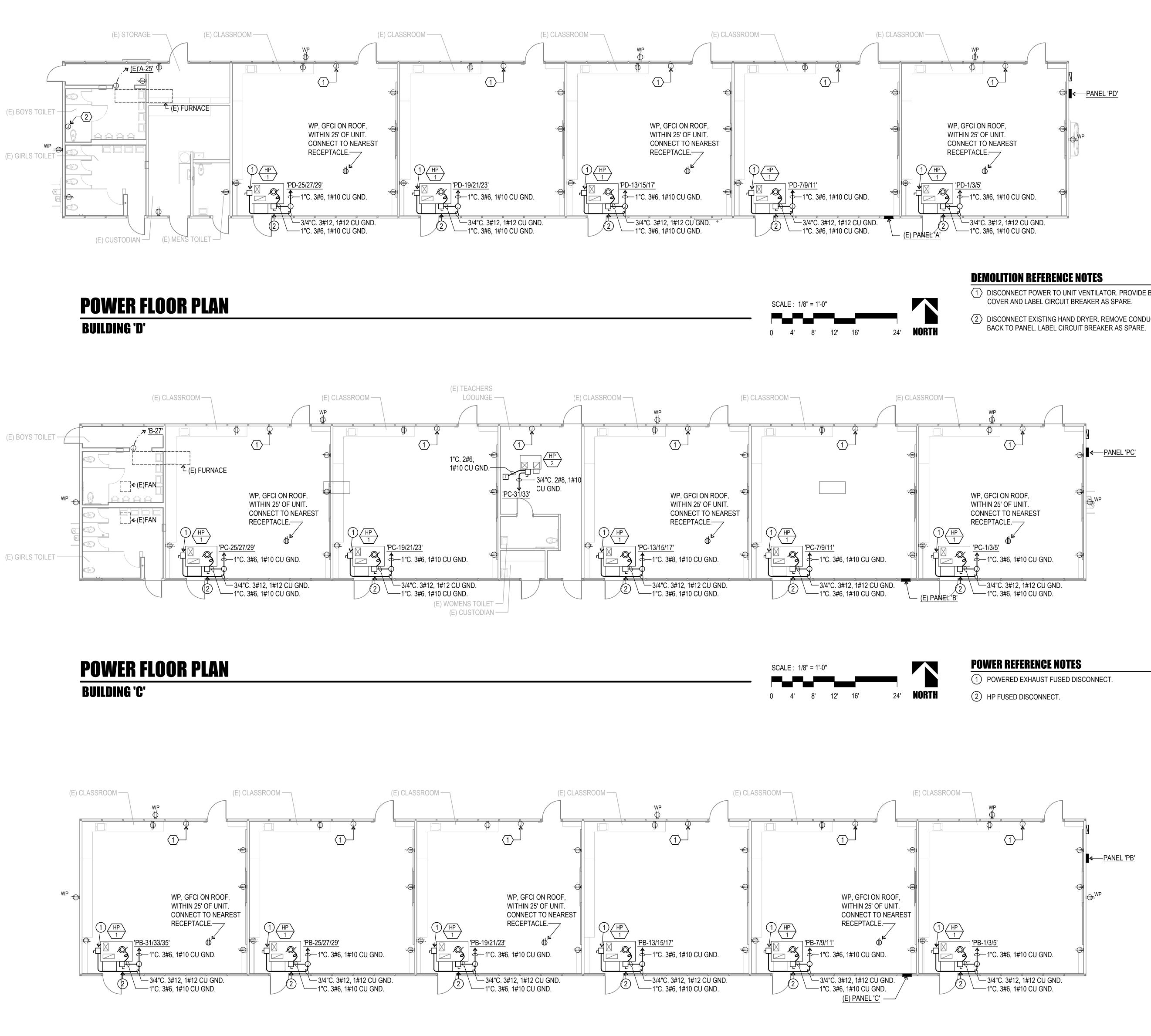
- 10. ALL DEVICES, ETC. IN WALLS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED, WHETHER INDICATED OR NOT.

- 13. REFER TO MECHANICAL PLANS AND DISCONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. LABEL

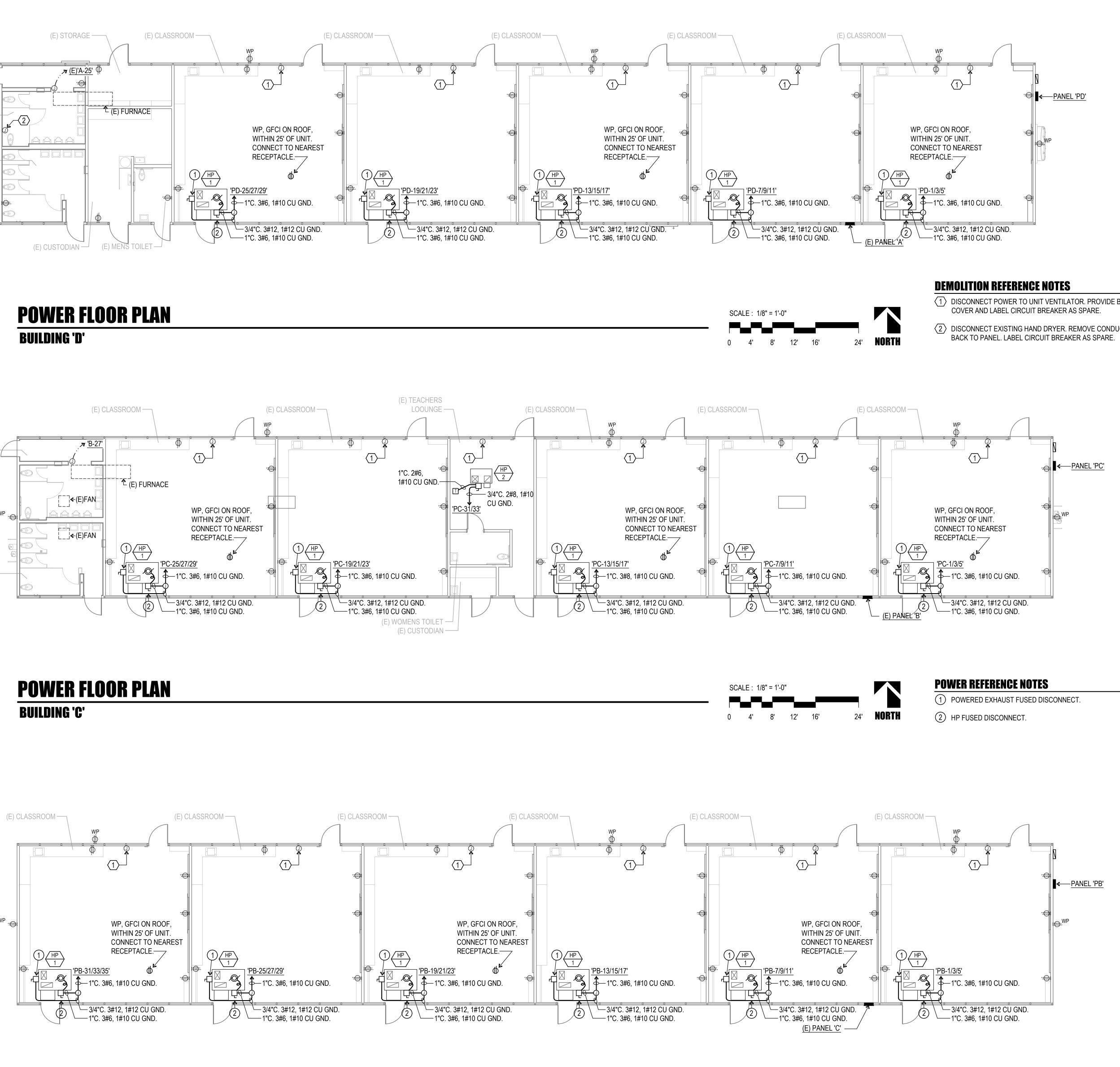








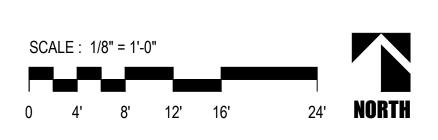


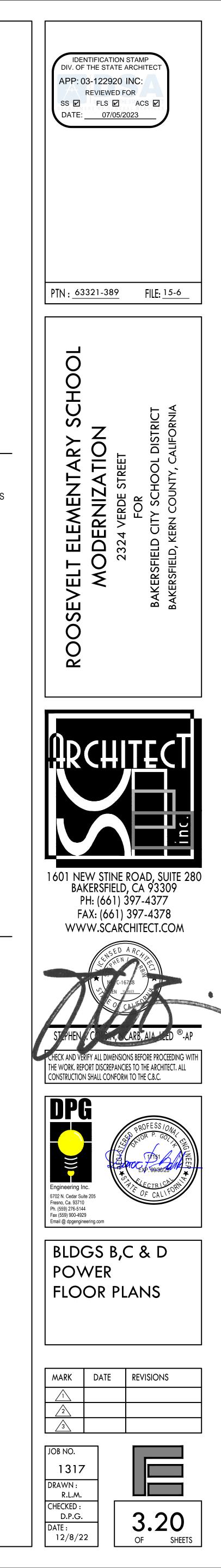






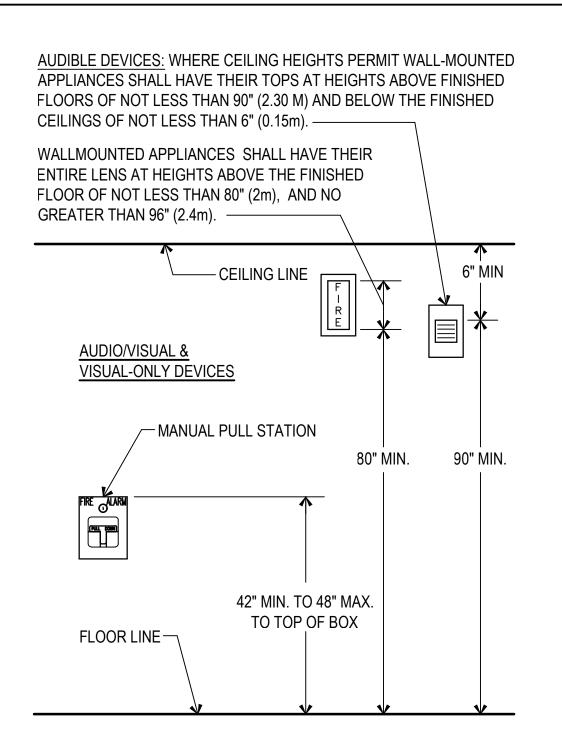
POWER FLOOR PLAN





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
- 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.
- 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.
- 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
- 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 PANEL FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES. SEE ALSO ARCHITECTURAL REFLECTED CEILING PLANS
- 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.



FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT	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	•		•	•	٠	•	•	•
ANNUNCIATE AT ADMINISTRATION OFFICE (CARBON MONOXIDE DETECTION)		•						
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•		•					•
CENTRAL STATION MONITORING	•		•	•	٠			•
CLOSE FIRE SMOKE DAMPER	•							
SHUT DOWN HVAC UNIT	•				٠			
ACTIVATE VOICE EVACUATION PANEL	•							
ACTIVATE AUDIO ALARM CLASSROOM ONLY		•						

F.A. DEVICE ELEVATION

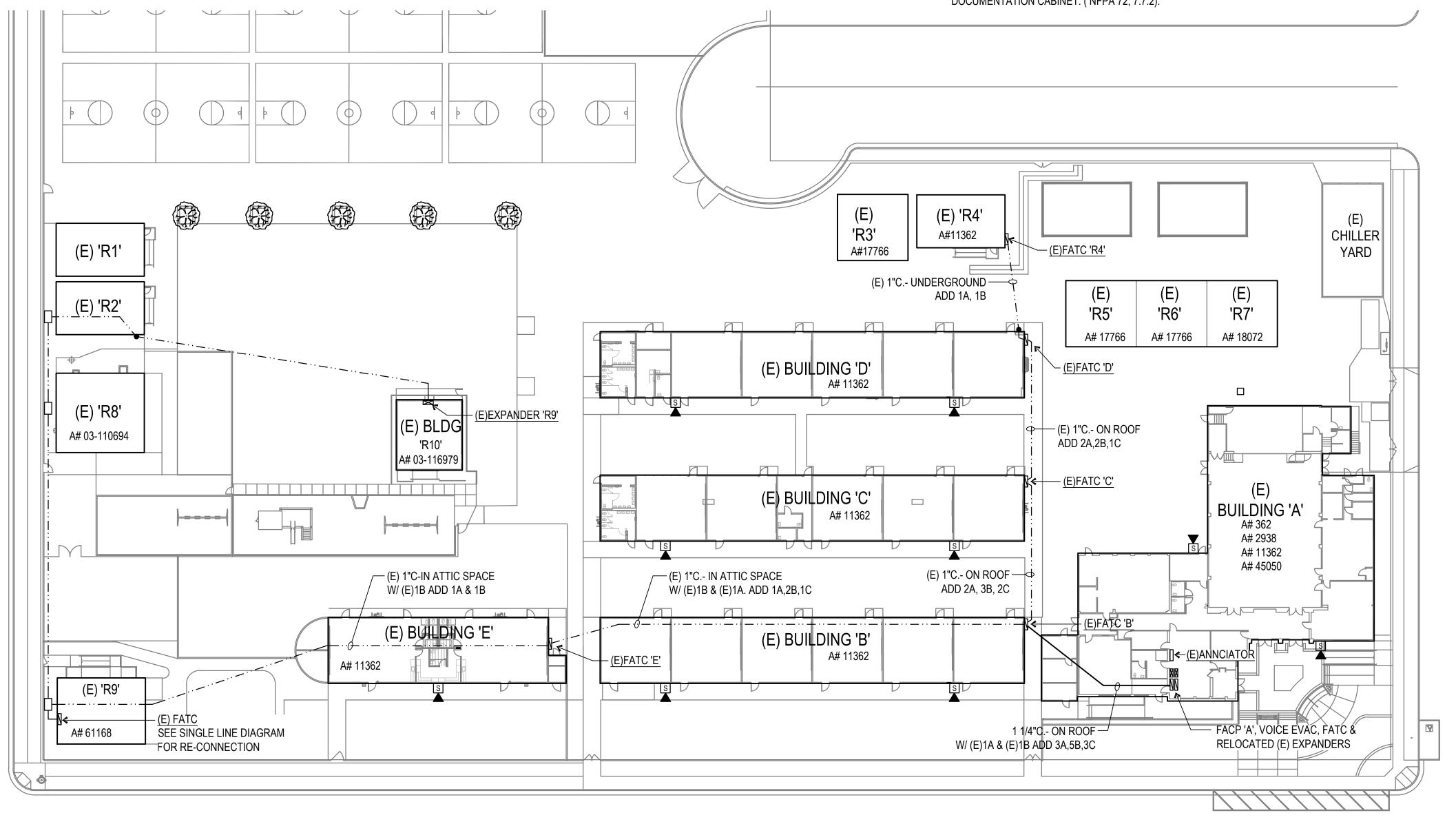


FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72. 7.7.2

- 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.
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
- 3. ALTERNATIVE MEANS AND METHODS.
- 4. PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
- 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).



FIRE ALARM SITE PLAN

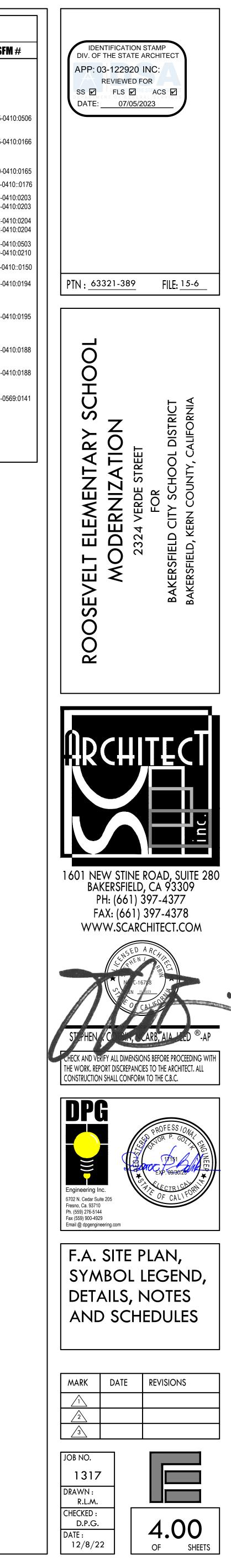
SCALE : 1" = 30'-0" 0 15' 30' 45' 60'

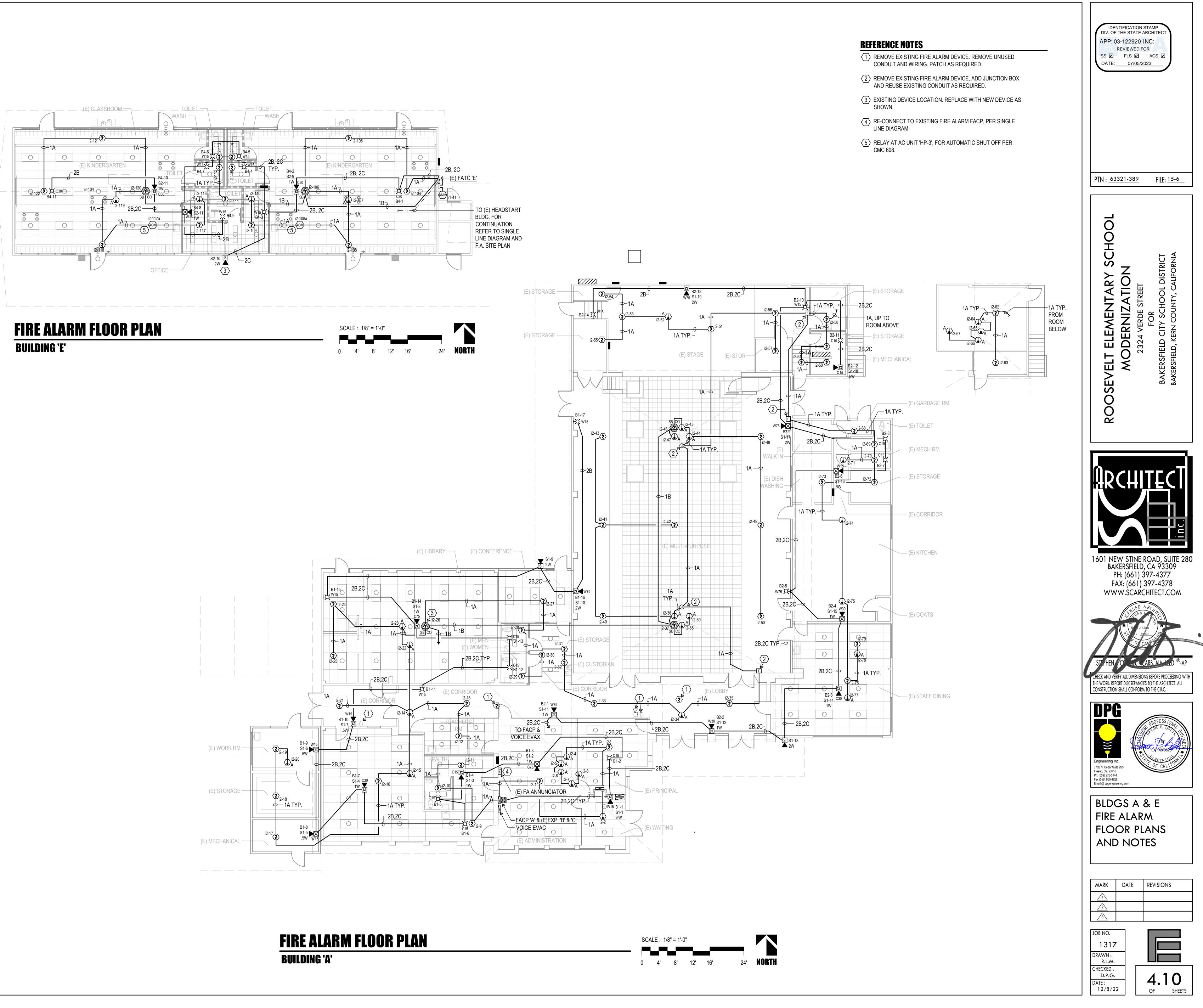
	FIRE ALARM SYMBOL S	CHEDULE	
SYMBOL	NAME	DESCRIPTION	CSF
(E)	EXISTING ITEM		
U.O.N	UNLESS OTHERWISE NOTED		
	WIRING UNDERGROUND OR IN WALL	3/4"C MIN U.O.N.	
<u> </u>	EXISTING CONDUIT TO REMAIN		
FACP —	FIRE ALARM CONTROL PANEL WITH MEDIA GATEWAY CARD & DIALER	HOCHIKI # FIRENET L@TITUDE HOCHIKI # 5788	7165-04
💌 EXP ——	FIRE ALARM EXPANDER PANEL	HOCHIKI # FN-642-ULADA	7315-04
	FIRE ALARM TC	24"HX18"WX4"D	
🖂 ANN ——	(E) FIRE ALARM ANNUNCIATOR	HOCHIKI #FN-LCD-S	7120-04
EVAC —	FIRE ALARM VOICE EVACUATION AMPLIFIER	HOCHIKI #EVAX-100	6911-04
⟨ I ⟩ _A ——	ATTIC HEAT DETECTOR WITH BASE PROVIDE ACCESS PANEL IN HARD LID AREAS	HOCHIKI #ATJ-EA BASE #YBN-NSA-4	7270-04 7270-04
<₂ ──	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	HOCHIKI #ALN-V BASE #HSB-NSA-6	7272-04 7272-04
GB CO	MULTI CRITERIA (CO) DETECTOR WITH BASE	HOCHIKI #ACD-V SOUNDER BASE #ASBL	7275-04 7300-04
\$0M	ADDRESSABLE SUPERVISED OUTPUT MODULE	HOCHIKI #DCP-R2ML-I	7300-04
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)	7320-04
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)	7320-04
XCcd —	F.A. VISUAL (CEILING MTD.) C = CEILING MTD + cd= MULTI-CANDELA SETTINGS	HOCHIKI #HCS24PCW (SEE PLANS FOR SETTINGS)	7125-04
Xwcd —	F.A. VISUAL (WALL MTD.) W = WALL MTD + cd= MULTI-CANDELA SETTINGS	HOCHIKI #HES3-24WR (SEE PLANS FOR SETTINGS)	7320-04
S xW	FIRE ALARM EXTERIOR SPEAKER. (WALL MTD.) xW = WATTAGE	GENTEX #WSSPKR (SEE PLANS FOR SETTINGS)	7320-05
	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	

FIRE ALARM ACCEPTANCE TEST

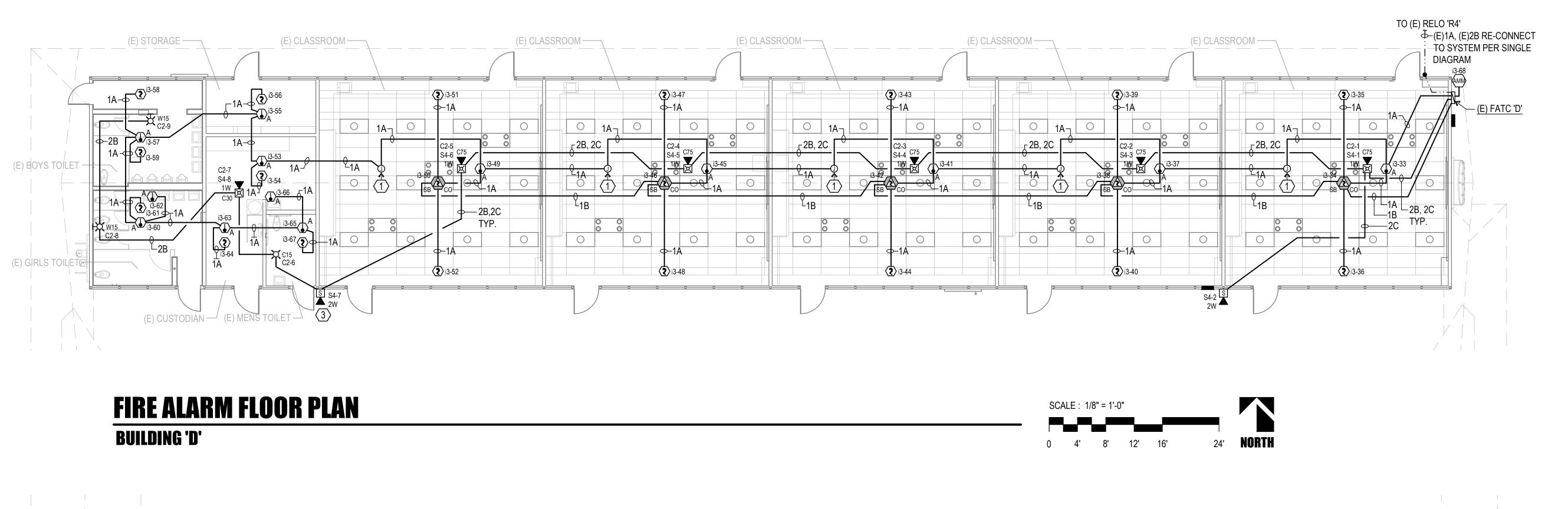
- TESTING OF ALL DEVICES AND APPLIANCES, INCLUDING THE BATTERY-(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET.
- INSPECTION TESTING AND MAINTENANCE OF SYSTEMS, THEIR INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL COMPLY WITH CHAPTER 14 OF NFPA 72 AND DOCUMENTATION WITH NFPA 72, CHAPTER 7.
- 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).



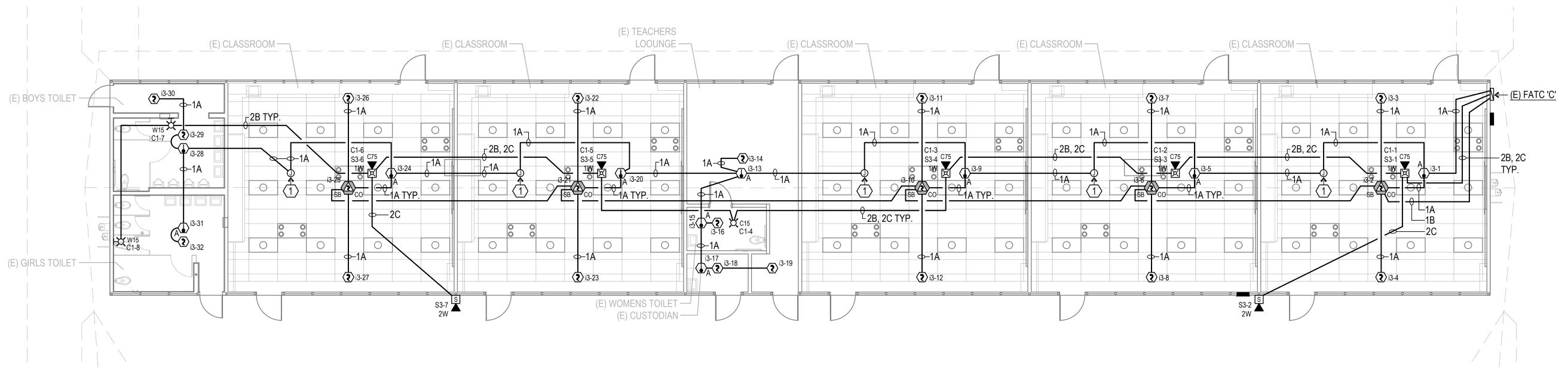




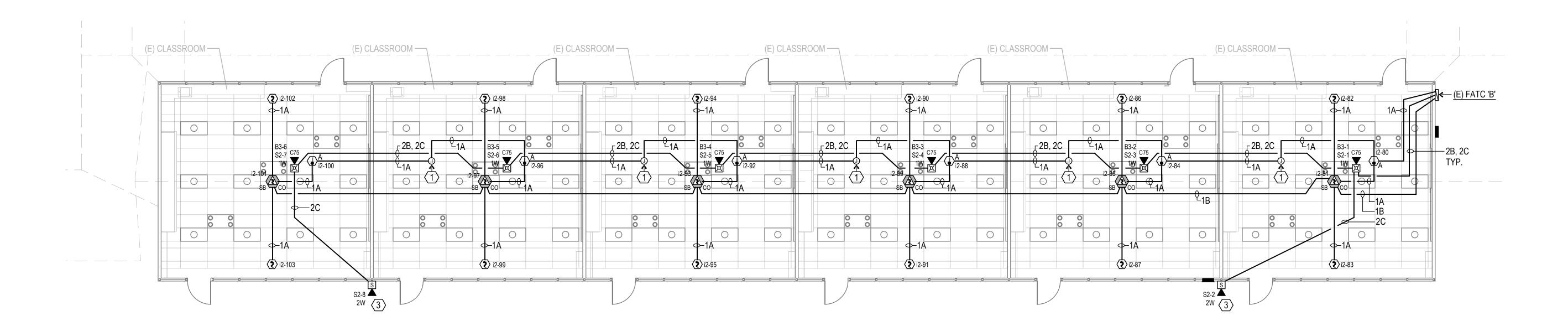
















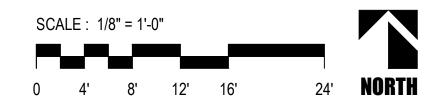
FIRE ALARM FLOOR PLAN

FIRE ALARM FLOOR PLAN

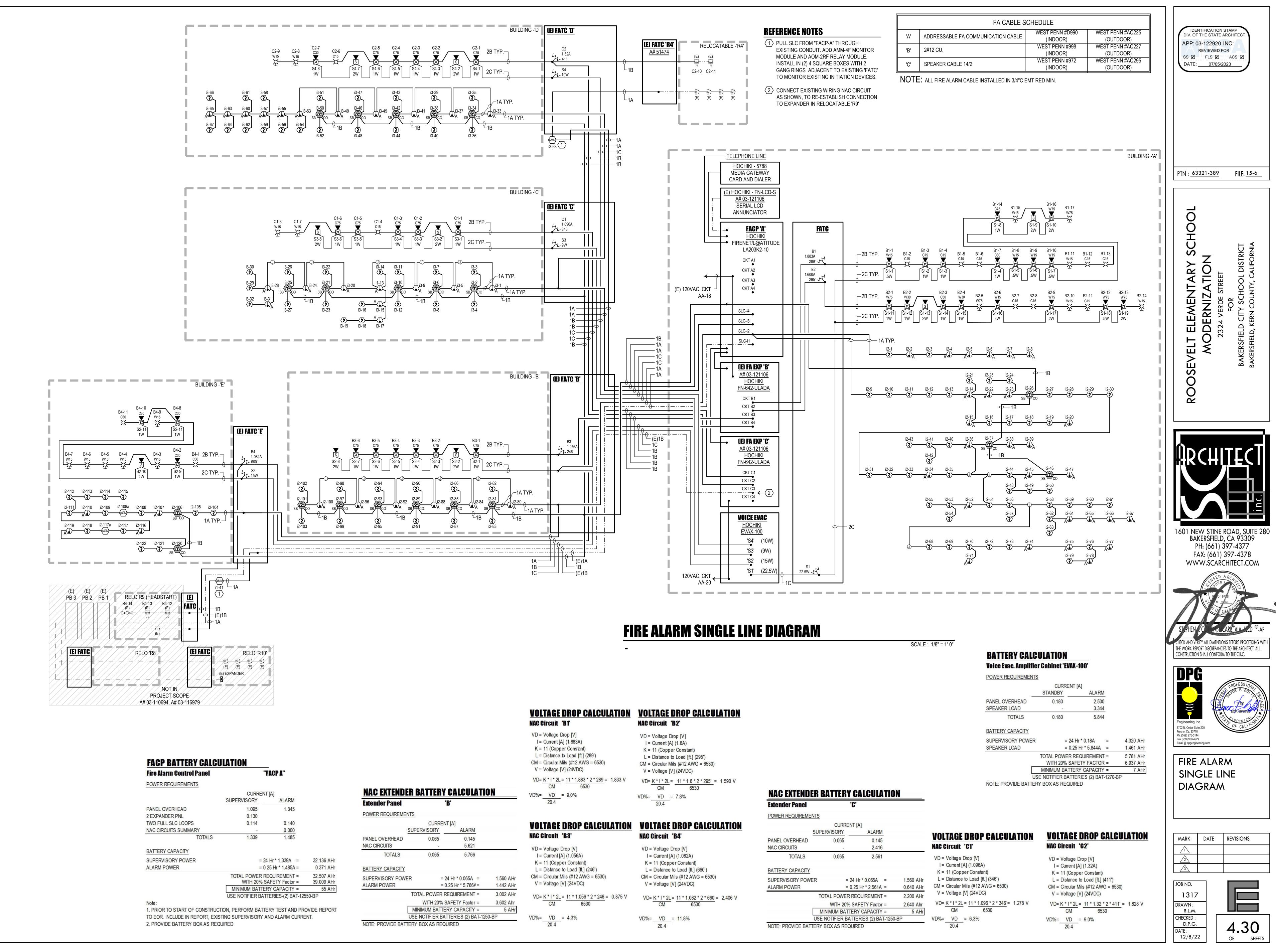




1 REMOVE EXISTING FIRE ALARM DEVICE. IF NECESSARY, ADD JUNCTION BOX AND REUSE EXISTING CONDUIT AS REQUIRED.





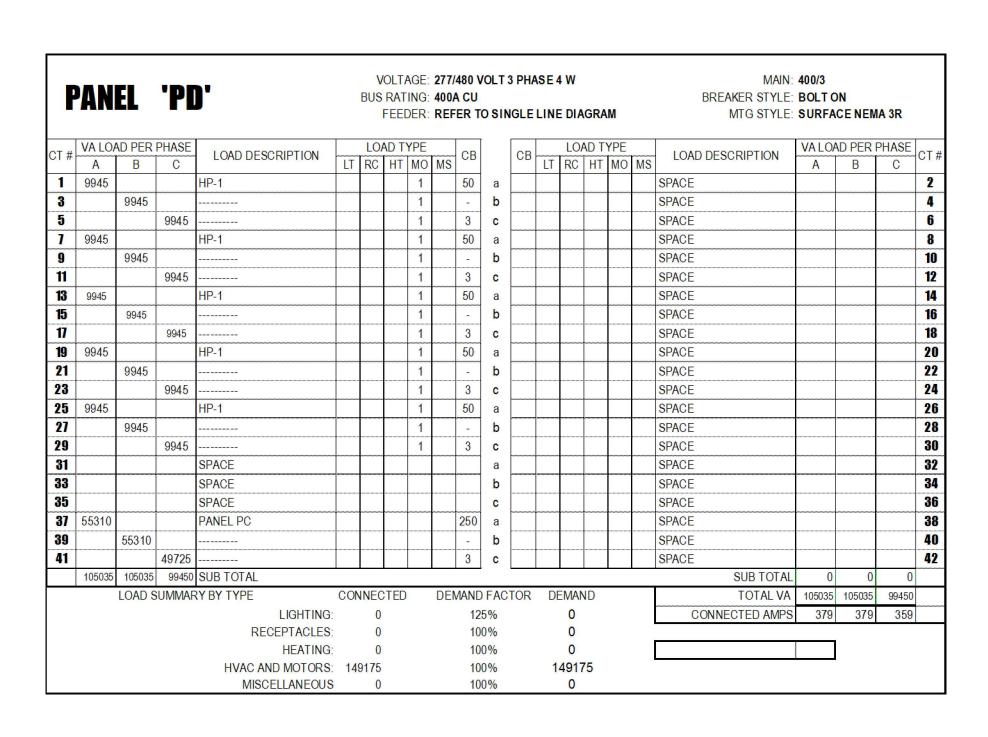


TWO FULL SLO LOOFS	0.114	0.140	
NAC CIRCUITS SUMMARY	-	0.000	
TOTALS	1.339	1.485	
BATTERY CAPACITY			
SUPERVISORY POWER	= 24 H	Hr * 1.339A =	32.136 AHr
ALARM POWER	= 0.25	5 Hr * 1.485A =	0.371 AHr
	TOTAL POWER REG WITH 20% SA	QUIREMENT = FETY Factor =	32.507 AHr 39.009 AHr
	MINIMUM BATTERY	and a second second second second	55 AHr
	USE NOTIFIER BATTE	RIES-(2) BAT-125	50-BP

ſ			
	FA CABLE S	CHEDULE	
'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 #972 (INDOOR)	WEST PENN #AQ295 (OUTDOOR)
	_		•

	CURF	RENT [A]		
-	STANDBY	ALA	RM	
PANEL OVERHEAD	0.180	2.5	500	
SPEAKER LOAD	-	3.3	344	
TOTALS	0.180	5.8	344	
BATTERY CAPACITY				
SUPERVISORY POWER	{ :	= 24 Hr * 0.18A	=	4.320
SPEAKER LOAD	;	= 0.25 Hr * 5.844	A =	1.461
	TOTAL POW	ER REQUIREME	NT =	5.781
	WITH 20%	6 SAFETY FACT	OR =	6.937
Γ	MINIMUM B	ATTERY CAPAC	ITY =	7
ī	JSE NOTIFIER E	BATTERIES (2) B	AT-1270)-BP
NOTE: PROVIDE BATTE	RY BOX AS RE	QUIRED		

	CURRENT	[A]			
SL	JPERVISORY	ALARM		VOLTACE DROD CALCULATION	VOLTAGE DROP CALCULA
PANEL OVERHEAD	0.065	0.145		VOLTAGE DROP CALCULATION	
NAC CIRCUITS	-	2.416		NAC Circuit 'C1'	NAC Circuit 'C2'
TOTALS	0.065	2.561		VD = Voltage Drop [V]	VD = Voltage Drop [V]
				I = Current [A] (1.096A)	I = Current [A] (1.32A)
BATTERY CAPACITY				K = 11 (Copper Constant)	K = 11 (Copper Constant)
SUPERVISORY POWER	= 24	Hr * 0.065A =	1.560 AHr	L = Distance to Load [ft.] (346')	L = Distance to Load [ft.] (411')
ALARM POWER	= 0.25	5 Hr * 2.561A =	0.640 AHr	CM = Circular Mils (#12 AWG = 6530)	CM = Circular Mils (#12 AWG = 6530)
	TOTAL POWER RE	QUIREMENT =	2.200 AHr	V = Voltage [V] (24VDC)	V = Voltage [V] (24VDC)
	WITH 20% SA	FETY Factor =	2.640 Ahr	VD= <u>K*I*2L</u> = <u>11*1.096*2*346'</u> = 1.278 V	VD= <u>K * I * 2L</u> = <u>11 * 1.32 * 2 * 411'</u> = 1.8
	MINIMUM BATTER	Y CAPACITY =	5 AHr	CM 6530	CM 6530
U	SE NOTIFIER BATTE	ERIES (2) BAT-1250)-BP	VD%=VD= 6.3%	VD%= VD = 9.0%
NOTE: PROVIDE BATTER	RY BOX AS REQUIR	RED		20.4	20.4

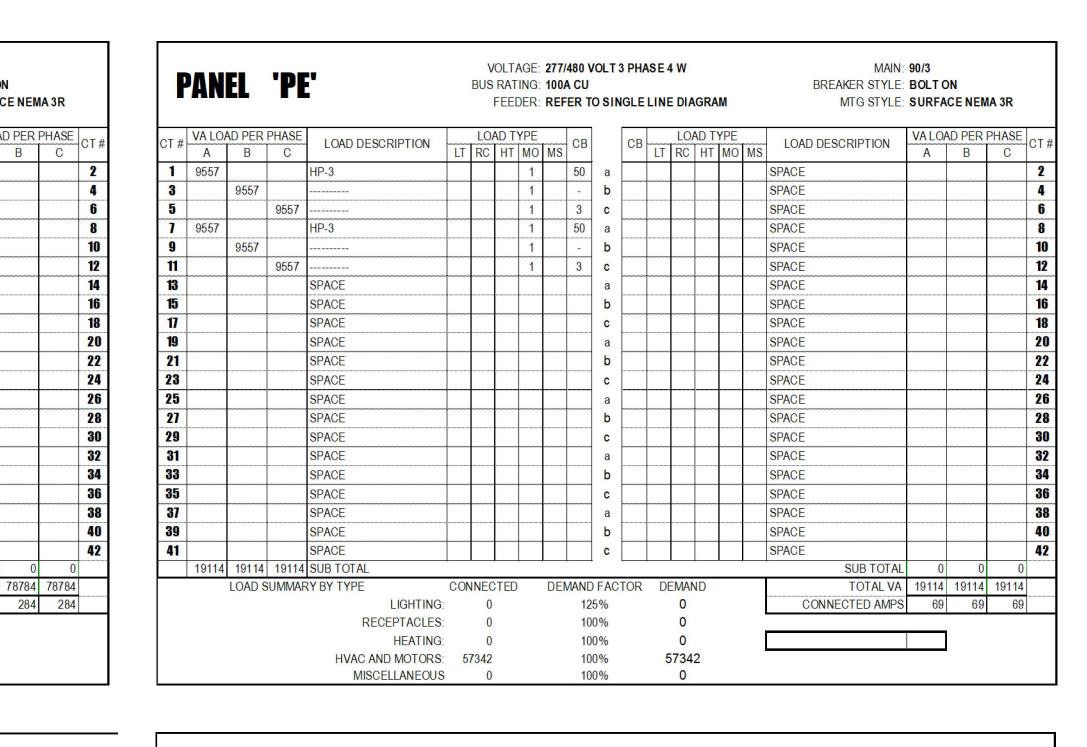


ľ	AN	tL	Υ	j				ing: Der:			OSIN	GLEI	INE	DIA	GRA	BREAKER STYLE: BOLT ON MTG STYLE: SURFACE NEMA 3R							
T H	VA LOA	D PER	PHASE			LO	AD T	YPE		0.0		0.0		LO	D T	YPE			VAL	DAD PER	PHASE	0.7	
T#	A	В	С	LOAD DESCRIPTION	LT	RC	HT	MO	MS	CB		CB	LT	RC	HT	MO	MS	LOAD DESCRIPTION	Α	В	С	-CT	
1	9945			HP-1				1		50	a							SPACE					
3		9945						1		-	b							SPACE					
5			9945					1		3	С							SPACE				1	
1	9945			HP-1				1		50	a							SPACE					
9		9945						1		4	b							SPACE				1	
1			9945					1		3	С							SPACE				1	
3	<mark>9945</mark>			HP-1				1		50	a							SPACE				1	
5		9945						1		-	b							SPACE				1	
7			9945					1		3	С							SPACE				1	
9	9945			HP-1				1		50	a							SPACE					
1		9945						1		_	b							SPACE				1	
3			9945					1		3	С							SPACE				1	
5	9945			HP-1				1		50	a							SPACE				5	
7		9945						1		-	b							SPACE					
9			9945					1		-3	С							SPACE				;	
1	5585			HP-2 XF				1		40	a							SPACE					
3		5585						1		2	b							SPACE				1	
5				SPACE							С							SPACE					
7				SPACE							a							SPACE					
9				SPACE							b							SPACE				1	
1				SPACE							С							SPACE				1	
	55310	55310	49725	SUB TOTAL			ļ						I			L		SUB TOT	NL I	0 0	0		
		LOAD S	UMMAF	RY BY TYPE	CON	NEC	TED		DEN	MANE	FAC1	FOR	DE	MAN	ID			TOTAL V	A 5531	0 55310	49725		
				LIGHTING:		0				12	5%			0				CONNECTED AMP	PS 20	0 200	180	l	
				RECEPTACLES:		0				10	0%			0									
				HEATING:		0				10	0%			0									
				HVAC AND MOTORS:	16	0345					0%		16	6034	15					-			
				MISCELLANEOUS		0				10	0%			0									

				VO	LTAGE D RO	DP CALCUL	ATIONS						
VD (3 PHASE) = (1.73 * K * I * D) / CM	1.73	K	I	D		Wire Size	СМ	VD	%@480	%@208			
PANEL PD	1.73	12	320	200	1328640	600 Kcmil	600000	2.2	0.5	1.1			
PANEL PC	1.73	12	160	80	265728	3/0	167800	1.6	0.3	0.8			
PANEL PB	1.73	12	240	330	1644192	350 Kcmil	350000	4.7	1.0	2.3			
PANEL PE	1.73	12	80	260	431808	#4	41740	10.3	2.2	5.0			
	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!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
VD (1 PHASE) = (2 * K * I * D) / CM	2	к	I	D			СМ	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													

F	PAN	EL	'PI	B '		BUS	RATI	ING:	400 <i>A</i>	CU	OLT 3				GRA	М		MAIN: BREAKER STYLE: MTG STYLE:	BOLT C		۸A
CT #	VA LOA	AD PER	PHASE	LOAD DESCRIPTION		LOA	DTY	Y PE		CB	()	CB		LOA	AD T	/PE		LOAD DESCRIPTION	VALOA	AD PER	P
01#	Α	B	С	LUAD DESCRIPTION	LT	RC	HT	MO	MS	UB		UB	LT	RC	HT	MO	MS	LUAD DESCRIPTION	Α	В	
1	9945			HP-1				1		50	а							SPACE			
3		9945						1		-	b							SPACE			
5			9945					1		3	С							SPACE			
7	9945			HP-1				1		50	а							SPACE			
9		9945						1		-	b							SPACE			
11			9945					1		3	С							SPACE			
13	9945			HP-1				1		50	а							SPACE			
15		<mark>994</mark> 5						1		2	b							SPACE			
17			9945					1		3	С							SPACE			
19	9945			HP-1				1		50	a							SPACE			
21		<mark>9945</mark>						1		2	b							SPACE			
23			9945					1		3	С							SPACE			
25	9945			HP-1				1		50	а							SPACE			
27		9945						1		-	b							SPACE			
29			9945					1		3	С							SPACE			
31	9945			HP-1				1		50	а							SPACE			-
33		9945						1		-	b							SPACE			
35			9945					1		3	С							SPACE			
37	19114			PANEL PE						90	a							SPACE			
39		19114								-	b							SPACE			
41			19114							3	С							SPACE			
	78784	78784		SUB TOTAL	-									I I				SUB TOTAL	0	0	F
				RY BY TYPE	CON	NEC	TED		DEN	AND	FAC	TOR	DI	EMAN	D			TOTAL VA	78784	78784	
				LIGHTING		0				12	5%			0				CONNECTED AMPS	284	284	Γ
				RECEPTACLES	:	0				10	0%			0			1				-
				HEATING		0				10	0%			0							
				HVAC AND MOTORS	17	9010				10	0%		1	7901	0		į			i	
				MISCELLANEOUS	5	0				10	0%			0							

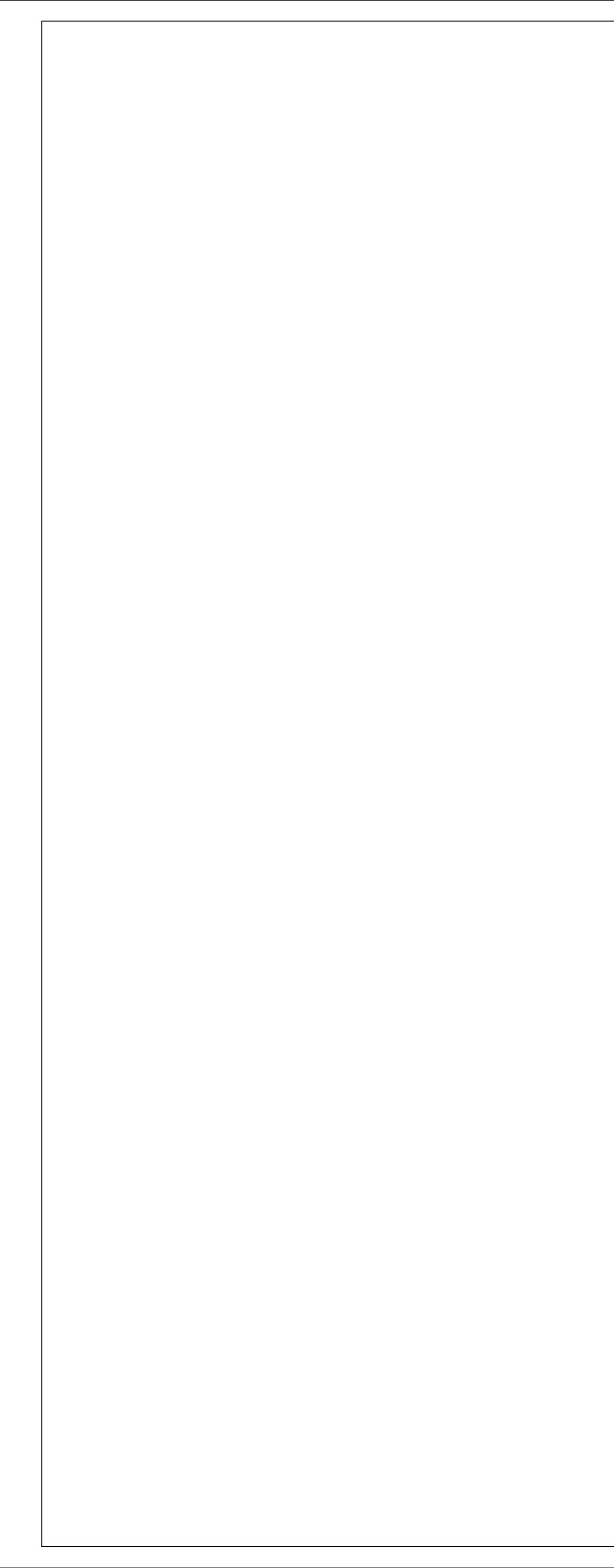
				Fixture \$	Schedule		
				1			1
	Luminaire						
		Lamp	Watts per				
Name	Type Description	Туре	fixture	Manufacturer	Model Number	Mounting	Notes
A	2 X4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 LP840 N100	T-BAR	
Ae	2 X4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 E10WLCP LP840 N100	T-BAR	EMERGENCY BATTERY BAC UP
B	1 X4 STRIP	LED	25	ABL - LITHONIA	CLXL48 4000 LM HEF RDL SPD MVOLT EZ1 40K 80 CRITHCLX N100	SURFACE	
X	ЕХТ	LED	1	ABL - LITHONIA	LHQM LED R HO RO	WALL	
X1	REMOTE HEAD	LED	1	ABL - LITHONIA	ELA SD QWP L0309	WALL	



	IPA	NEL						NG: 1				IGLE			CDA	м		BREAKER STYLE: MTG STYLE:		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
	VALO	AD PER	DUASE								5 511							MIGSTILL.			PHASE	-
CT #	A	B	C	LOAD DESCRIPTION	LT			MO	MS	CB		CB	LT			MO	MS	LOAD DESCRIPTION	A		C	СТ
1				EXISTING LOAD						20	a	20						EXISTING LOAD				2
3				EXISTING LOAD						20	b	20						EXISTING LOAD				: 4
5				EXISTING LOAD						20	C	20						EXISTING LOAD				6
7				EXISTING LOAD						20	а	20						EXISTING LOAD				8
9				EXISTING LOAD						20	b	20						EXISTING LOAD				1(
11				EXISTING LOAD						20	С	20						EXISTING LOAD				1
13				EXISTING LOAD						20	а	20						EXISTING LOAD				1/
15				EXISTING LOAD						20	b	20						EXISTING LOAD				1
17			1200	FACP A, EXP B *						20	С	20						EXISTING LOAD				1
19	1200			EXP C, VOICE EVAC*						20	а	20						EXISTING LOAD				2
	1200	0	1200	SUB TOTAL											~			EX A	0	() (0
		LOAD S	SUMMAF	RY BY TYPE	CON	NEC	TED		DEN	1AND	FAC	TOR	DE	MAN	ID			TOTAL VA	1200	(1200	0
				LIGHTING:		0				12	5%			0				CONNECTED AMPS	10	() 10	0
				RECEPTACLES:		0				100)%			0				* DEDICATED FACP AND V	OICE E	VAC CI	RCUITS	,
				HEATING:		0				100)%			0				PROVIDE LOCK OFF AND I	PAINTH	IANDLE	RED. /	ADD
				HVAC AND MOTORS:		0				100				0				CIRCUIT BREAKER				
				MISCELLANEOUS		0				100)%			0								

Y BATTERY BACK UP





					CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE					NRCC-ELC-E
					tructed nonresidential, high-rise residential and
otei/motei occupancies. Addition <u>141.0(b)2P</u> for alterations.	s and alterations to electrical service systems	in these occup	ancies will also	use this docume	nt to demonstrate compliance per <u>§141.0(a)</u> or
	IENTARY SCHOOL MODERNIZATION		Report Pag	ı¢.	Page 1 of 4
roject Address: BAKERSFIELD			Date Prepa	-	11-1-22
A. GENERAL INFORMATION					
01 Project Location (city)	BAKERSFIELD			es Within Projec	t:
Office	Retail 🛛 🗌 Warehouse	🗌 H	otel/ Motel	🖌 Sch	ool 🗌 Support Areas
Parking Garage	High-Rise Residential 🛛 🗌 Relocatable	H	ealthcare Facili	ties 🗌 Otł	ner (Write In):
B. PROJECT SCOPE					2
able Instructions: Include any elec	trical service systems that are within the sco	pe of the permit	application.		
01	02	03	04	05	06
					Demand Response Controls
			Utility	System	Where required, demand response controls must
Flasteine Compile			Provided	subject to CA	be specified which are capable of receiving and
Electrical Service	Coore of Marki	Rating	Metering	Elec Code	automatically responding to at least one
Designation/	Scope of Work ¹	(kVA)	System	Article 517	standards based messaging protocol which
Description			Exception to	Exception to	enables demand response after receiving a
			§130.5(a) ²	§130.5(a)&(b)	demand response signal. Sections §120.2, §130.1
					and <u>§130.3</u> and compliance documents NRCC- MCH, NRCC-LTI and NRCC-LTS will indicate when
	Add/Alt to feeders and branch circuits	C			demand response controls are required.
EXISTING	only				

C. COMPLIANCE RES	SULTS						
Table Instructions: If t	his table	says "DOES NOT CON	APLY" ref	er to Table D. for guid	lance and	review the Table that i	ndicates "No".
01		02		03		04	05
Service Electrical Metering <u>§130.5(a)</u>	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	Compliance Results
(See Table F)		(See Table G)	1 [(See Table H)	1 [(See Table I)	
	AND		AND	Yes	AND		COMPLIES

STATE OF CALIFORNIA **Electrical Power Distribution** NRCC-ELC-E (Created 01/20) CERTIFICATE OF COMPLIANCE NRCC-ELC-E Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION Report Page: Page 3 of 4 Date Prepared: Project Address: BAKERSFIELD 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/ Field Inspector YES NO Form/Title Pass Fail NRCI-ELC-01-E - Must be submitted for all buildings. ۲ 0 K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2020

January 2020

NRCC-ELC-E (Created 01/20)	ition			OMANGELON	
CERTIFICATE OF COMPLIANCE			CALIFORNIA ENERGY C		CC-ELC
	IENTARY SCHOOL MODERNIZATION	Report Page:			ge 2 of
Project Address: BAKERSFIELD		Date Prepared:			11-1-2
D. EXCEPTIONAL CONDITIONS					1
	able comments because of selections made or data	entered in tables throughout the form	l.		
No exceptional conditions apply to	this project				
E. ADDITIONAL REMARKS					2
This table includes remarks made l	by the permit applicant to the Authority Having Juri	diction.			
F. SERVICE ELECTRICAL METER	ING				2
This Section Does Not Apply					
G. SEPARATION OF FLECTRICA	L CIRCUITS FOR ENERGY MONITORING				1
This Section Does Not Apply					
H. VOLTAGE DROP					2
	te this table for entirely new or complete replaceme onstrate compliance with <u>§130.5(c)</u> . For alteration				otn
01	02	03	04	05	5
Electrical Service	Combined Voltage Drop on Installed Feeder/Bran	ch Location of Voltage Drop	Sheet Number for Voltage Drop	Field Ins	pecto
Designation/ Description	Circuit Conductors Compliance Method	Calculations ¹	Calculations in Construction Documents	Pass	Fail
	Permitted by CA Ele		boounicity	1 033	1 011
EXISTING	Voltage drop < 5%	In construction documents	E5.00		
NOTES If "Permitted by CA Elec Co	§130.5(c)) pde*" is selected under Compliance Method above.	please indicate where the exception a	pplies in the space provided below.	I I	
¹ FOOTNOTES: Voltage drop calcul	ode*" is selected under Compliance Method above, ations may be attached to the permit application of	tside the construction documents if al	lowed by the Authority Having Juris	diction. Se	elect
¹ FOOTNOTES: Voltage drop calcul	ode*" is selected under Compliance Method above,	tside the construction documents if al	lowed by the Authority Having Juris	diction. Se	elect
¹ FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont	tside the construction documents if al actor, select "Contractor Responsible"	lowed by the Authority Having Juris	diction. Se	
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120-	ode*" is selected under Compliance Method above, ations may be attached to the permit application of	tside the construction documents if al actor, select "Contractor Responsible"	lowed by the Authority Having Juris	diction. Se	elect
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont	tside the construction documents if al actor, select "Contractor Responsible"	lowed by the Authority Having Juris	diction. Se	
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont	tside the construction documents if al actor, select "Contractor Responsible"	lowed by the Authority Having Juris	diction. Se	
¹ FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120-	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont	tside the construction documents if al actor, select "Contractor Responsible"	lowed by the Authority Having Juris	diction. Se	
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I . CIRCUIT CONTROLS FOR 120 - This Section Does Not Apply	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris		
FOOTNOTES: Voltage drop calcula 'attached" if applicable. If calcula . CIRCUIT CONTROLS FOR 120 This Section Does Not Apply	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris		
¹ FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120- This Section Does Not Apply	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris		
¹ FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120- This Section Does Not Apply	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris		
¹ FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120- This Section Does Not Apply CA Building Energy Efficiency Standard	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP Is - 2019 Nonresidential Compliance: <u>http://www.energy</u>	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris		
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120- This Section Does Not Apply CA Building Energy Efficiency Standard STATE OF CALIFORNIA Electrical Power Distribu	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP Is - 2019 Nonresidential Compliance: <u>http://www.energy</u>	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juriso	Janua	ary 202
FOOTNOTES: Voltage drop calcula "attached" if applicable. If calcula I. CIRCUIT CONTROLS FOR 120- This Section Does Not Apply CA Building Energy Efficiency Standard TATE OF CALIFORNIA Electrical Power Distribu IRCC-ELC-E (Created 01/20)	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP Is - 2019 Nonresidential Compliance: <u>http://www.energy</u>	tside the construction documents if al actor, select "Contractor Responsible" TACLES	lowed by the Authority Having Juris	Janua	ary 202
FOOTNOTES: Voltage drop calcula 'attached" if applicable. If calcula . CIRCUIT CONTROLS FOR 120- This Section Does Not Apply CA Building Energy Efficiency Standard TATE OF CALIFORNIA Electrical Power Distribu IRCC-ELC-E (Created 01/20) ERTIFICATE OF COMPLIANCE roject Name: ROOSEVELT ELEN	ode*" is selected under Compliance Method above, ations may be attached to the permit application of tions will be the responsibility of the installing cont VOLT RECEPTACLES AND CONTROLLED RECEP Is - 2019 Nonresidential Compliance: <u>http://www.energy</u>	tside the construction documents if al actor, select "Contractor Responsible" TACLES ca.gov/title24/2019standards Report Page:	lowed by the Authority Having Juriso	Janua	ary 202
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I certify the following under penalty of perjury, under the laws of the State of California:

Address:

City/State/Zip:

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. Daroc Blik Responsible Designer Name: DAVOR P. GOLIK P.E. Responsible Designer Signature: Date Signed: 11-1-22 Company :

License:

Phone:

E17151

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	January 2020



path. Project Name: Project Address:	emonstrate compliance with requirem	BUILDING A	A ROOSEVELT Rep	ort Page:			, - `		(P
A. GENERAL INFORMATI		2324 V							
01 Project Location (city) 02 Climate Zone	BAKERSFIELD 13			04Total Conditioned05Total Uncondition	ned Floor Area	(ft ²) 0	179		
03 Occupancy Types Withi ☑ Office □ Parking Garage	in Project (select all that apply): □ Retail □ High-Rise Resident	U Wareh		06 # of Stories (Habi	table Above G		chool ther (Write in	Sup	port See
B. PROJECT SCOPE							-		
This table includes any ligh <u>§141.0(b)2</u> for alterations.	ting systems that are within the scope Scope of Work	e of the permit a	pplication and a	Conditioned Spaces	pliance using t	he prescripti		ned in <u>§140.</u> tioned Spac	
	01 t Consists of (check all that apply):		Calculat	02 ion Method	03 Area (ft²)		04 alculation Me		Ar
New Lighting System			Area Cate	gory Method 4179	4179	Are	a Category M	lethod 0	
Registration Number:			Registration	Date/Time:			Regis	tration Provid	der
CA Building Energy Efficiency	Standards - 2019 Nonresidential Complia	ance		on: 2019.1.003 ion: rev 20200601			Report Gene	erated: 2022-1	11-
STATE OF CALIFORNIA									_
Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMPLIANCE							CALIFOR	NIA ENERGY	CC
Project Name: Project Address:			A ROOSEVELT Rep ERDE STREET Dat						
H. INDOOR LIGHTING CO Area Level Controls	ONTROLS (Not including PAFs)								
04	05	06	07	08	09 Primary/Sky	10	11		12
Area Description	Complete Building or Area Category Primary Function Area Office greater than 250 square	Area Controls §130.1(a)	<u>§130.1(b)</u>	Shut-Off Controls §130.1(c)	lit Daylighting <u>§130.1(d)</u>	Daylighting §140.6(d)	<u>§140.6(a)1</u>	Field I Pass	Insp
OFFICE	feet Lounge Breakroom or Waiting	ON/OFF Manual	Dimmer Dimmer	Occupancy Sensor Occupancy Sensor	Included	Included N/A	No No		+
LIBRARY	Area Library Reading Area	ON/OFF Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		╈
STORAGE	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No		ļ
TOILET	Restrooms Convention, Conference,	Manual ON/OFF Manual	Exempt*	Occupancy Sensor	N/A	N/A	No		╀
CONFERENCE HALL	Multipurpose and Meeting Center Areas Corridor Area	ON/OFF Manual	Dimmer Exempt*	Occupancy Sensor Occupancy Sensor	N/A N/A	N/A 	No		+
*NOTES: Controls with a *	require a note in the space below exp Skylight Daylighting: Exempt because		npliance is achie	ved.			13		1
to <u>§130.1(d)2</u> TOILET	MULTI LEVEL CONTROL NOT REC	QUIRED IN RESTR	ROOMS			Plan Shee	et Showing Da	iylit Zones:	
HALL	MULTI LEVEL CONTROL NOT REC	QUIRED IN CORR	IDOR				E2.30		
Registration Number: CA Building Energy Efficiency STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E	Standards - 2019 Nonresidential Complia	ance	•	Date/Time: on: 2019.1.003 ion: rev 20200601			Report Gene	tration Provid	11-
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	UIRED CERTIFICATES OF INSTALLA								
Additional Remarks. These	based on information provided in this documents must be provided to the b ı/title24/2019standards/2019_compli	ouilding inspecto	r during constru	ction and can be found		an explanati	ion should be	included in	Tab
Yes No	NRCI-LTI-01-E - Must be submitted for		Form/Titl					Field I Pass	nsp
	NRCI-LTI-02-E- Must be submitted for recognized for compliance.	a lighting contro							+
	NRCI-LTI-04-E - Must be submitted for nultipurpose room or a theater to be NRCI-LTI-05-E- Must be submitted for	recognized for a	compliance.	_		, a conferenc	e room, a		+
	NRCI-LTI-06-E- Must be submitted for	additional watta				ognized for co	ompliance.		±
Selections have been made Additional Remarks. These	based on information provided in this documents must be provided to the b	is document. If a ouilding inspecto	r during constru	ction and any with "-A'	" in the form n				
Test Technician Certification Yes No	n Provider (ATTCP). For more informat	tion visit: http://	/www.energy.ca. Form/Titl		uders.html			Field I Pass	nsp
	NRCA-LTI-02-A - Must be submitted fo NRCA-LTI-03-A - Must be submitted fo			atic time switch contro	lls.				Ŧ
U. DECLARATION OF REC Selections have been made Additional Remarks. These Test Technician Certification Yes No Yes No Test Technician Certification Test Technician Certification	recognized for compliance. NRCI-LTI-04-E - Must be submitted for multipurpose room or a theater to be NRCI-LTI-05-E- Must be submitted for NRCI-LTI-06-E- Must be submitted for QUIRED CERTIFICATES OF ACCEPTA based on information provided in this documents must be provided to the b in Provider (ATTCP). For more informat	r two interlocked recognized for o a Power Adjustr additional watta ANCE is document. If a building inspecto tion visit: http://	d systems serving compliance. ment Factor (PAF age installed in a my selection hav r during constru- www.energy.ca. Form/Titl nsors and autom rlight controls. posive lighting co	g an auditorium, a conv -) to be recognized for a video conferencing stu- te been changed by the ction and any with "-A" .gov/title24/attcp/prov le atic time switch contropontrols.	vention center compliance. udio to be reco permit applica " in the form n viders.html	, a conference ognized for co	e room, a ompliance. nation should	d be includ hrough an Fiel	

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	Convention, Conference, Multipurpose and 0.85 205 174.2 No. No.	Registration Number: CA Building Energy Eff STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMP Project Name: Project Address: I. LIGHTING POWE Each area complying §140.6(c) or adjustm Conditioned Spaces 01 Area Desc	iciency Standard LIANCE R ALLOWANC using the Com tents per <u>§140.</u>	E: COMPLETI plete Building <u>6(a)</u> are being Complete	E BUILDING or Area Cate g used . e Building or Functi	BUILDIN 2324 OR AREA CAT gory Methods p 02 Area Category on Area	G A RO 4 VERD Der <u>§1</u> Prima	Registi Report Schem	ration Dat t Version: ha Version LT Report ET Date P THODS are incl 03 Allowed (W/	te/Time: 2019.1. a: rev 202 t Page: Prepared Juded in B Density ft ²)	003 200601 : : : : : : : : : : : : : : : : : : :	2. Columi 4 (ft ²)	n 06 indicates 05 Allowed Wa (Watts	attage	Report General CALIFORN	ated: 2022-1 IA ENERGY	er: Energyso 1-03 08:20: COMMISSI NRCC-L' (Page 5 o 11/3/20 vances per Adjustmen PAF			
		Registration Number: CA Building Energy Eff STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMP Project Name: Project Address: I. LIGHTING POWE Each area complying §140.6(c) or adjustm Conditioned Spaces 01 Area Desc LOUNGE/BRE	iciency Standard	E: COMPLETI plete Building <u>6(a)</u> are being Complete	E BUILDING or Area Cate g used . e Building or Functi nge Breakroo	BUILDIN 2324 OR AREA CAT gory Methods p D2 Area Category on Area am or Waiting A	G A RO 4 VERD Der <u>§1</u> Prima	Registi Report Schem	ration Dat t Version: ha Version LT Report ET Date P THODS are incl 03 Allowed (W/ 0.6	te/Time: 2019.1. h: rev 200 t Page: repared Juded in B Density ft ²) 55	003 200601 : : : : : : : : : : : : : : : : : : :	2. Columi 4 (ft ²)	n 06 indicates 05 Allowed Wa (Watts 611.6	attage 5)	Registr Report General CALIFORN ditional lighting p Additional A Area Categ No	ated: 2022-1 IA ENERGY	er: Energyso 1-03 08:20: COMMISSI NRCC-L (Page 5 o 11/3/20 ances per Adjustmen PAF No			
		Registration Number: CA Building Energy Eff STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMP Project Name: Project Address: I. LIGHTING POWE Each area complying §140.6(c) or adjustm Conditioned Spaces 01 Area Descc LOUNGE/BRE	iciency Standard	E: COMPLETI plete Building <u>6(a)</u> are being Complete	E BUILDING or Area Cate g used . e Building or Functi nge Breakroo Library Re	BUILDIN 2324 OR AREA CAT gory Methods p D2 Area Category on Area am or Waiting A eading Area	G A RO 4 VERD Der <u>§1</u> Prima	Registi Schem DOSEVE DE STREI 40.6(b)	ration Dat t Version: ha Version LT Report ET Date P THODS are incl 03 Allowed (W/ 0.6	te/Time: 2019.1. h: rev 200 t Page: repared Juded in B Density ft ²) 55	003 200601 : : : : : : : : : : : : : : : : : : :	2. Columi 4 (ft ²)	n 06 indicates 05 Allowed Wa (Watts 611.6	attage 5)	Registr Report General CALIFORN ditional lighting p Additional A Area Categ No	ated: 2022-1 IA ENERGY	er: Energyso 1-03 08:20: COMMISSI NRCC-L (Page 5 o 11/3/20 ances per Adjustmen PAF No			
	Corridor Area 0.6 141 84.6 No No	Registration Number: CA Building Energy Eff STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMP Project Name: Project Address: I. LIGHTING POWE Each area complying §140.6(c) or adjustm Conditioned Spaces 01 Area Desc LOUNGE/BRE	iciency Standard	E: COMPLETI plete Building <u>6(a)</u> are being Complete	E BUILDING or Area Cate g used . e Building or Functi nge Breakroo Library Re ion, Confere	BUILDIN 232 OR AREA CAT gory Methods p O2 Area Category on Area om or Waiting A eading Area nce, Multipurpo	G A RO 4 VERD Der <u>§1</u> Prima	Registi Schem DOSEVE DE STREI 40.6(b)	ration Dat t Version: ha Version LT Report ET Date P THODS are incl 0: Allowed (W/ 0.6 0.1	te/Time: 2019.1. h: rev 200 t Page: repared Juded in B Density ft ²) 55 8	003 200601 : : : : : : : : : : : : : : : : : : :	2. Columi 4 (ft ²) 1 51	n 06 indicates 05 Allowed Wa (Watts 611.6 768.8	attage 5)	Registr Report General CALIFORN ditional lighting p Additional A Area Categ No No	ated: 2022-1 IA ENERGY	er: Energyso 1-03 08:20: COMMISSI NRCC-L (Page 5 o 11/3/20 ances per Adjustmen PAF No No			

Meeting Center Areas						
Corridor Area	0.6	141	84.6	No	No	
Restrooms	0.65	137	89	No	No	
All Other Space Types	0.4	713	285.2	No	No	
Office greater than 250 square	feet 0.65	1,081	702.6	No	No	
	TOTALS:	4,179	2,716	See Tables J, o	r P for detail	
CATEGORY METHOD QUALIFYING	ELIGHTING SYSTEM					
ject.						
ject.						
NCE: TAILORED WALL DISPLAY						
ANCE: TAILORED FLOOR AND TASK	LIGHTING					
ject.						
	Registration Date/Time:			Registration P	rovider: Energysof	
j	Restrooms All Other Space Types Office greater than 250 square A CATEGORY METHOD QUALIFYING ject. IGHTING POWER ALLOWANCE ject.	Corridor Area 0.6 Restrooms 0.65 All Other Space Types 0.4 Office greater than 250 square feet 0.65 TOTALS: A CATEGORY METHOD QUALIFYING LIGHTING SYSTEM ject. A CATEGORY METHOD QUALIFYING LIGHTING SYSTEM ject. MCE: TAILORED WALL DISPLAY ject. MCE: TAILORED FLOOR AND TASK LIGHTING ject.	Corridor Area 0.6 141 Restrooms 0.65 137 All Other Space Types 0.4 713 Office greater than 250 square feet 0.65 1,081 TOTALS: 4,179	Corridor Area 0.6 141 84.6 Restrooms 0.65 137 89 All Other Space Types 0.4 713 285.2 Office greater than 250 square feet 0.65 1,081 702.6 TOTALS: 4,179 2,716 A CATEGORY METHOD QUALIFYING LIGHTING SYSTEM IghtTing POWER ALLOWANCE ject. VICE: TAILORED WALL DISPLAY VACE: TAILORED FLOOR AND TASK LIGHTING	Corridor Area0.614184.6NoRestrooms0.6513789NoAll Other Space Types0.4713285.2NoOffice greater than 250 square feet0.651,081702.6NoTOTALS:4,1792,716See Tables J, oA CATEGORY METHOD QUALIFYING LIGHTING SYSTEMject.A CATEGORY METHOD QUALIFYING LIGHTINGSYSTEMject.SYSTEMject.SYSTEMject.SYSTEMject.SYSTEMject.SYSTEMject.SYSTEMJanne: SystemJanne: SystemJanne: SystemJanne: SystemJanne: SystemJanne: SystemJanne: System <td co<="" td=""></td>	

NRCC-LTI-E		CALIFORM	
CERTIFICATE OF COMPLIANCE			NRCC-LTI-
Project Name:	BUILDING A ROOSEVEL		(Page 8 of 8
Project Address:	2324 VERDE STREE	Date Prepared:	11/3/202
DOCUMENTATION AUTHOR'S DECLARATION S	TATEMENT		
I certify that this Certificate of Compliance do	cumentation is accurate and comple	ete.	
Documentation Author Name: Davor P. Golik P.E.		Documentation Author Signature:	
Company: DPG Engineering, Inc.		Signature Date: 2022 - 11 - 03	
Address: 6702 N Cedar #205		CEA/ HERS Certification Identification (if applicable): E17151	
City/State/Zip: Fresno CA 93710		Phone: 559 275 5144	
 The energy features and performance specifications, of Title 24, Part 1 and Part 6 of the California Code of 4. The building design features or system design featur plans and specifications submitted to the enforcement 5. I will ensure that a completed signed copy of this Ce 	pliance is true and correct. ofessions Code to accept responsibility for the bui materials, components, and manufactured devic f Regulations. es identified on this Certificate of Compliance are int agency for approval with this building permit a rtificate of Compliance shall be made available wi	th the building permit(s) issued for the building, and made available to the enforcem	e conform to the requirements s, worksheets, calculations, ent agency for all applicable
 The information provided on this Certificate of Comp I am eligible under Division 3 of the Business and Pro The energy features and performance specifications, of Title 24, Part 1 and Part 6 of the California Code o The building design features or system design feature plans and specifications submitted to the enforceme I will ensure that a completed signed copy of this Ce 	pliance is true and correct. ofessions Code to accept responsibility for the bui materials, components, and manufactured devic f Regulations. es identified on this Certificate of Compliance are int agency for approval with this building permit a rtificate of Compliance shall be made available wi	es for the building design or system design identified on this Certificate of Complianc consistent with the information provided on other applicable compliance documents pplication.	e conform to the requirements s, worksheets, calculations, ent agency for all applicable
 The information provided on this Certificate of Comp I am eligible under Division 3 of the Business and Pro The energy features and performance specifications, of Title 24, Part 1 and Part 6 of the California Code o The building design features or system design feature plans and specifications submitted to the enforceme I will ensure that a completed signed copy of this Ce inspections. I understand that a completed signed correct sis signed correct signed correct signed correct sis signed co	pliance is true and correct. ofessions Code to accept responsibility for the bui materials, components, and manufactured devic f Regulations. es identified on this Certificate of Compliance are int agency for approval with this building permit a rtificate of Compliance shall be made available wi	es for the building design or system design identified on this Certificate of Complianc consistent with the information provided on other applicable compliance documents pplication. th the building permit(s) issued for the building, and made available to the enforcem be included with the documentation the builder provides to the building owner at o	e conform to the requirements s, worksheets, calculations, ent agency for all applicable
 The information provided on this Certificate of Comp I am eligible under Division 3 of the Business and Pro The energy features and performance specifications, of Title 24, Part 1 and Part 6 of the California Code of The building design features or system design feature plans and specifications submitted to the enforceme I will ensure that a completed signed copy of this Ce inspections. I understand that a completed signed cop Responsible Designer Name: DAVOR P GOLIK P.E. 	pliance is true and correct. ofessions Code to accept responsibility for the bui materials, components, and manufactured devic f Regulations. es identified on this Certificate of Compliance are int agency for approval with this building permit a rtificate of Compliance shall be made available wi	es for the building design or system design identified on this Certificate of Complianc consistent with the information provided on other applicable compliance documents pplication. th the building permit(s) issued for the building, and made available to the enforcem- be included with the documentation the builder provides to the building owner at o Responsible Designer Signature:	e conform to the requirements s, worksheets, calculations, ent agency for all applicable

ation Number:	Registration Date/Time:	Registr
lding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Genera

state of california Indoor Lighting

CERTIFICATE OF C	COMPLIANCE									NRCC
Project Name:			BUILD	ING A ROOSEVE	LT Report Page:					(Page 3
Project Address:			23	324 VERDE STREI	T Date Prepared:					11/3/
F. INDOOR LIG	HTING FIXTURE SCHEDU	LE								
В	25 WATT LED	No	No	25	CEC Default	5	No	125		
•		•	•	•	Total Designe	ed Watts: CON	DITIONED SPACES	2,295		•
.ms aajastment,	, the permit applicant should	a chici jun ruicu	wallage in con							
the lamp.	ng Jurisdiction may ask for L LIGHTING SYSTEMS es not apply to this project.	uminaire cut she	eets to confirm v		r compliance per <u>§</u>	<u>130.0(c)</u> Watta	ge used must be the	e maximum rate	d for the lur	ninaire,
the lamp. G. MODULAR This section doe	ng Jurisdiction may ask for L				er compliance per <u>§</u>	<u>130.0(c)</u> Watta	ge used must be the	e maximum rate	d for the lur	ninaire,
the lamp. G. MODULAR This section doe H. INDOOR LIC This table includ	ng Jurisdiction may ask for L LIGHTING SYSTEMS es not apply to this project.	including PAFs)) onditioned spac	vattage used fo	trol having a * is sl	hown, the notes	s section of this table	e provides more	detail on ho	
the lamp. G. MODULAR This section doe H. INDOOR LIC This table inclua compliance is ac	ng Jurisdiction may ask for L LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not des lighting controls for cond chieved. The lighting control	including PAFs)) onditioned spac	vattage used fo	trol having a * is sl	hown, the notes	s section of this table	e provides more	detail on ho	
the lamp. G. MODULAR This section doe H. INDOOR LIC This table inclua compliance is ac	ng Jurisdiction may ask for L LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not des lighting controls for cond chieved. The lighting control	including PAFs)) onditioned spac	vattage used fo	trol having a * is sl	hown, the notes	s section of this table	e provides more	detail on ho	
the lamp. G. MODULAR This section doe H. INDOOR LIC This table includ	ng Jurisdiction may ask for L LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not des lighting controls for cond chieved. The lighting control Controls	including PAFs] ditioned and unco ls section of the (onditioned spac Compliance Sum	vattage used fo	trol having a * is sl the first page will s	hown, the notes show "DOES NC	s section of this table T COMPLY" if the no	e provides more	detail on ho k.	w 3

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: 2022-11-03 08:20:40

NRCC-LTI-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTI-I
Project Name:	BUILDING A ROOSEVELT	Report Page:	(Page 6 of 8
Project Address:	2324 VERDE STREET	Date Prepared:	11/3/202
N. ADDITIONAL LIGHTING ALLOWANC	E: TAILORED ORNAMENTAL/SPECIAL EFFECT	5	
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANC	E: TAILORED VERY VALUABLE MERCHANDISE		
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CO	ONTROL CREDIT (POWER ADJUSTMENT FACT	OR (PAF))	
This section does not apply to this project.			
	IANCE FOR ALTERATIONS		
Q. RATED POWER REDUCTION COMPL This section does not apply to this project.	IANCE FOR ALTERATIONS		
Q. RATED POWER REDUCTION COMPL	TERATIONS - CONTROLS EXCEPTIONS		
Q. RATED POWER REDUCTION COMPL This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALT	IANCE FOR ALTERATIONS		

Registration Number:
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

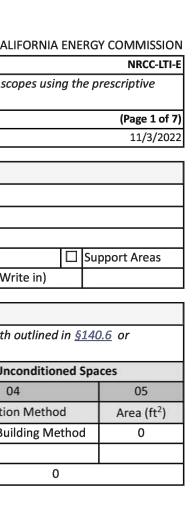
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-11-03 08:20:40

stration Provider: Energysoft erated: 2022-11-03 08:20:40



RCC-LTI-E RTIFICATE OF COMPLIANCE his document is used to demonstrate compliance with requirements in <u>§110</u> ath.		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting				~	ALIFORNIA ENERGY COMMIS
ath.	0.9, 5110, 12(c), 5120, 0, 5120, 1, 5140, 6, and 5141, 0(b)2, for indeer light	NRCC-LTI-E	NRCC-LTI-E CERTIFICATE OF COMPLIANCE Project Name:		BUILDING B ROOSEVELT Repo	+ Dago.		NRCC- (Page 2
oject Name: BUILDI	ING B ROOSEVELT Report Page:	(Page 1 of 7)	Project Address:		2324 VERDE STREET Date			11/3/
	24 VERDE STREET Date Prepared:	11/3/2022	C. COMPLIANCE RESULTS					
I Project Location (city) BAKERSFIELD	04 Total Conditioned Floor Area (ft ²) 5,5	36		DOES NOT COMPLY" or "COMPLIES with Allowed Lighting Power per §1		to Table D. for guidance. Adjusted Lighting Powe	r per <u>§140.6(a)</u> (Watts)	Compliance Results
2 Climate Zone 13 3 Occupancy Types Within Project (select all that apply):	05 Total Unconditioned Floor Area (ft ²) 0 06 # of Stories (Habitable Above Grade) 1		Lighting in 0 conditioned and unconditioned	1 02 03 Area	04 05	06 07 Adjustme	08 nts	09
	arehouse 🛛 Hotel/Motel 🖾 Sch	nool 🗌 Support Areas	spaces must not be combined for	ding Category Additional	$\begin{array}{c c} \text{Tailored} \\ \underline{\$140.6(c)3} \\ (+) \end{array} = \begin{array}{c} \text{Total} \\ \text{Allowed} \end{array}$	≥ Total PAF Light Designed Control Cre (Watts) §140.6(a	edits = (Watts)	05 must be >= 08
PROJECT SCOPE			§140.6(b)1	able I) (See Table I) (See Table J) (S	(+) (Watts)	(Watts) §140.6(a (-) (See Table F) (See Table	Adjustments	<u>§140.6</u>
is table includes any lighting systems that are within the scope of the pern <u>41.0(b)2</u> for alterations.	nit application and are demonstrating compliance using the prescriptive	e path outlined in <u>§140.6</u> or	Conditioned 3,5		= 3,598	≥ 2,520 0	= 2520	COMPLIES
Scope of Work 01	Conditioned Spaces 02 03	Unconditioned Spaces 04 05					(See Table H for Details	
My Project Consists of (check all that apply): Image: My Project Consists of (check all that apply): Image: My Project Consists of (check all that apply):		culation Method Area (ft ²) ete Building Method 0	D. EXCEPTIONAL CONDIT	ONS	Nateu r	ower Reduction Compliance		5)
New Lighting System - Parking Garage Total Area of Work (ft ²)	5536	0		uneditable comments because of selec	tions made or data entered in t	ables throughout the form.		
			E. ADDITIONAL REMARKS	nade by the permit applicant to the Au	Ithority Havina Jurisdiction.			
			F. INDOOR LIGHTING FIXT		, ,			
			This table includes all perma Designed Wattage: Conditic	nent designed lighting and all portable ned Spaces	e lighting in offices.			
			01	02 03 5	mall	06 07	08 0	09 10
				e Luminaire Modular Aper	rture & Watts per How i	-	Excluded per §140.6(a)3 Design	n Watts Pass Fai
			A 35 W		No 35 CEC	Default 72 Detail Designed Watts: CONDIT		520
egistration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:		Registration Da	-	۷٫۰	Registration Provider: Energy
Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-11-03 08:35:03	CA Building Energy Efficiency S	tandards - 2019 Nonresidential Complianc		: 2019.1.003 n: rev 20200601	Repo	ort Generated: 2022-11-03 08:35
			STATE OF CALIFORNIA					
door Lighting CC-LTI-E RTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTI-E	Indoor Lighting NRCC-LTI-E CERTIFICATE OF COMPLIANCE				C	ALIFORNIA ENERGY COMMIS NRCC-
ect Name: BUILDI	ING B ROOSEVELT Report Page: 24 VERDE STREET Date Prepared:	(Page 4 of 7) 11/3/2022	CERTIFICATE OF COMPLIANCE Project Name: Project Address:		BUILDING B ROOSEVELT Repo			NRCC- (Page 5 11/3/
		11/3/2022				riepareu:		11/3/
IGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CA ch area complying using the Complete Building or Area Category Methods		onal lighting power allowances per	Q. RATED POWER REDUC This section does not apply t	TION COMPLIANCE FOR ALTERATIC	ONS			
<u>40.6(c)</u> or adjustments per <u>§140.6(a)</u> are being used . Inditioned Spaces			R. 80% LIGHTING POWER	FOR ALL ALTERATIONS - CONTROL	LS EXCEPTIONS			
01 02 Area Description Complete Building or Area Category		06 Additional Allowance / Adjustment	This section does not apply 1					
Function Area Whole Building School Building	(W/ft²) Area (ft²) (Watts) 0.65 5,536 3,598.4	Area Category PAF No No	S. DAYLIGHT DESIGN POV This section does not apply 1	ver ADJUSTMENT FACTOR (PAF)				
	TOTALS: 5,536 3,598.4	See Tables J, or P for detail	-	JIRED CERTIFICATES OF INSTALLATI				
ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING	G LIGHTING SYSTEM			ased on information provided in this d	focument. If any selection have	been chanaed by permit appli	cant. an explanation she	
's section does not apply to this project.				ocuments must be provided to the buil	lding inspector during construct	ion and can be found online a		ould be included in Table E.
			Additional Remarks. These d		lding inspector during construct	ion and can be found online a Documents/NRCI/		Field Inspector
TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE is section does not apply to this project.			Additional Remarks. These d https://www.energy.ca.gov/ Yes No O N	ocuments must be provided to the buil title24/2019standards/2019_complian RCI-LTI-01-E - Must be submitted for al	lding inspector during construct nce_documents/Nonresidential_ Form/Title Il buildings	ion and can be found online a Documents/NRCI/	t	Field Inspector Pass Fail
his section does not apply to this project. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE his section does not apply to this project. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY his section does not apply to this project.			Additional Remarks. These d https://www.energy.ca.gov/ Yes No No No No No No No No	ocuments must be provided to the buil title24/2019standards/2019_complian RCI-LTI-01-E - Must be submitted for al RCI-LTI-02-E- Must be submitted for a l cognized for compliance.	lding inspector during construct nce_documents/Nonresidential_ Form/Title Il buildings lighting control system, or for an	ion and can be found online a Documents/NRCI/ n Energy Management Contro	t I System (EMCS), to be	Field Inspector Pass Fail
TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE is section does not apply to this project. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY is section does not apply to this project. . ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK	KLIGHTING		Additional Remarks. These d https://www.energy.ca.gov/ Yes No N O N ree N m	ocuments must be provided to the buil title24/2019standards/2019_complian RCI-LTI-01-E - Must be submitted for al RCI-LTI-02-E- Must be submitted for a l	Iding inspector during construct nce_documents/Nonresidential Form/Title Il buildings lighting control system, or for an wo interlocked systems serving a ecognized for compliance.	ion and can be found online a Documents/NRCI/ n Energy Management Contro an auditorium, a convention c	t I System (EMCS), to be enter, a conference roor	Field Inspector Pass Fail Image: Image of the system Image of the system m, a Image of the system
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Project Address:				2324	1 VERD	E STREET	Date P	Prepare	ed:						11/3/
C. COMPLIANCE R	FSUITS														
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	Allowed Lighting Power per §			er <u>§140.6(b)</u> (W	(Watts) Adjusted Lighting Power per §140.6(a) (Watts)				(Watts)	Vatts) Compliance Result					
Lighting in	01	02	03	04		05			06	07			08	09)
conditioned and unconditioned spaces must not be combined for compliance per <u>§140.6(b)1</u>	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additiona §140.6(c)2 (+) (See Table	l <u>§140.6(c)3</u> G (+)	=	Total Allowe (Watts	d	≥ (!	Total Designed (Watts) See Table F)	Adjustmer PAF Lighti Control Cre <u>§140.6(a)</u> (-) (See Table	ng dits = <u>2</u>	(V *In	Adjusted Vatts) icludes istments	05 must l <u>§14(</u>	
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Project Addre	SS:	2324 VERDE STREET Date Prepared:		
Q. RATED P	OWER RED	OUCTION COMPLIANCE FOR ALTERATIONS		
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R. 80% LIG	HTING POW	VER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS		
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6 DAVIJCI				_
		POWER ADJUSTMENT FACTOR (PAF)		
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T. DECLARA	TION OF R	EQUIRED CERTIFICATES OF INSTALLATION		
Additional R	emarks. The	de based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be se documents must be provided to the building inspector during construction and can be found online at gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	included in Ta	ıble
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۲		NRCI-LTI-01-E - Must be submitted for all buildings		
0	۲	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.		
0	۲	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.		
0	۲	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		
		NRCI-ITI-06-F- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.		

Indoor Lighting NRCC-LTI-E							CALIFORN	IIA ENERGY C	OMMIS
CERTIFICATE OF COMPLIANCE									NRCC
Project Name:			ROOSEVELT Rep						(Page 3
Project Address:		2324 VE	RDE STREET Dat	te Prepared:					11/3
F. INDOOR LIGHTING FIXTU	RE SCHEDULE								
	small aperture and color changing plicant should enter full rated wat			<u>140.6(a)4B</u> is adjusted t	o be 75% of ti	heir rated wa	ttage. Table F	automatica	lly make
	may ask for Luminaire cut sheets t	-		npliance per <u>§130.0(c)</u> V	Vattage used	must be the i	maximum rate	ed for the lur	ninaire,
G. MODULAR LIGHTING SYS	STEMS								
This section does not apply to	this project.								
H. INDOOR LIGHTING CONT	ROLS (Not including PAFs)								
	trols for conditioned and uncondi hting controls section of the Com	•		-					w
Building Level Controls									
	01			()2			0	3
Mandatory	Demand Response §110.12(c)			Shut-off cont	rols <u>§130.1(c</u>)	1		Field In	<u> </u>
Not	: Required <= 10,000 SF			Whole Bui	lding Other			Pass	Fai
Area Level Controls							I		
04	05	06	07	08	09	10	11	1	2
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 <u>§130.1(d)</u>	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field In	
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	Pass	Fai
	uire a note in the space below exp		pliance is achie	eved.			13		
*NOTES: Controls with a * requ						Plan Shee	t Showing Day	lit Zones:	
*NOTES: Controls with a * requ EX: Conference 1: Primary/Skyl to §130.1(d)2	light Daylighting: Exempt because						• •		
EX: Conference 1: Primary/Skyl	light Daylighting: Exempt because						E2.30		
EX: Conference 1: Primary/Skyl	light Daylighting: Exempt because		Registration	Date/Time:			E2.30	ration Provide	er: Energ

COMMISSION NRCC-LTI-E (Page 5 of 7) 11/3/2022 Table E. Inspector Fail

STATE OF CALIFORNIA Indoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: Project Address:

Additional R	emarks. The	ade based on information provided in this document. If any selection have been changed by the permit applicant, an explanation ase documents must be provided to the building inspector during construction and any with "-A" in the form name must be compl tion Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html		
Yes No		s No Form/Title		nspec
165	NO	romy nue	Pass	
۲	\bigcirc	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
۲	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		\square
0	۲	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		Τ
	۲	NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		1

BUILDING B ROOSEVELT Report Page: 2324 VERDE STREET Date Prepared:

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-11-03 08:35:03

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

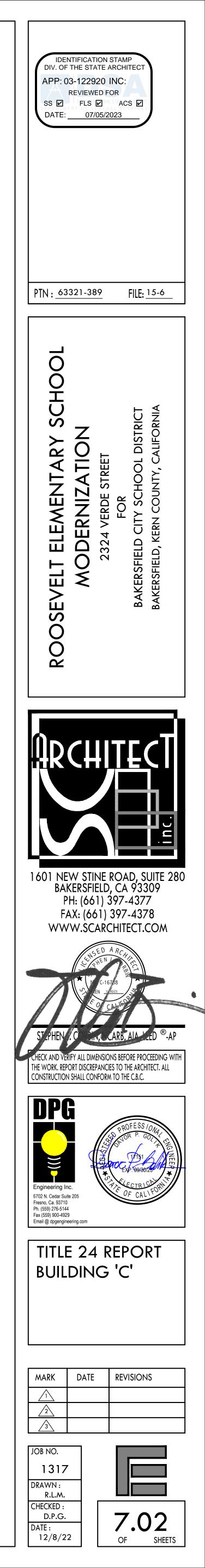
(Page 6 of 7) 11/3/2022



OF CALIFORNIA OOR Lighting -LTI-E		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CALIFORNIA ENE
IFICATE OF COMPLIANCE document is used to demonstrate compliance with requirements in <u>§110.9</u> , <u>§</u> .	<u>110.12(c), §130.0, §130.1, §140.6</u> and <u>§141.0(b)2</u> for inc	NRCC-LTI-E loor lighting scopes using the prescriptive	CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: BUILDING C ROOSEVELT Report Page: (Page 2 of 7)	CERTIFICATE OF COMPLIANCE Project Name: BUILDING C ROOSEVELT Report Page:
	ROOSEVELT Report Page:	(Page 1 of 7)	Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022	Project Address: 2324 VERDE STREET Date Prepared:
	RDE STREET Date Prepared:	11/3/2022	C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	F. INDOOR LIGHTING FIXTURE SCHEDULE
Project Location (city) BAKERSFIELD	04 Total Conditioned Floor Area (ft ²)	4,614	Allowed Lighting Power per <u>§140.6(b)</u> (Watts) Adjusted Lighting Power per <u>§140.6(a)</u> (Watts) Compliance Results	¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>\$140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F auton 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 <u>\$130.0(c)</u> Wattage used must be the maximum rated for the formation of the second seco
Climate Zone 13 Occupancy Types Within Project (select all that apply):	05 Total Unconditioned Floor Area (ft ²) 06 # of Stories (Habitable Above Grade)		conditioned and unconditioned Area	the lamp.
OfficeImage: RetailImage: WarehoParking GarageImage: High-Rise ResidentialImage: Relocate		School Support Areas Other (Write in) See Table I	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.
ROJECT SCOPE			Compliance per §140.6(b)1 Description Compliance per (+) Compliance per (+) Compliance per (+) Compliance per (+) Compliance per (-) Compliance per (-) Compliance per (-) Compliance per (-) Compliance per Adjustments §140.6(b)1 (See Table I) (See Table I) (See Table I) (See Table I) (See Table F) (See Table P) Adjustments	H. INDOOR LIGHTING CONTROLS (Not including PAFs)
table includes any lighting systems that are within the scope of the permit ap 1.0(b)2 for alterations.			Conditioned 3,229.8 0 = 3,230 ≥ 2,100 0 = 2100 COMPLIES Unconditioned > COMPLIES	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 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.
Scope of Work 01	Conditioned Spaces 02 03	Unconditioned Spaces 04 05	Controls Compliance (See Table H for Details) COMPLIES Rated Power Reduction Compliance (See Table Q for Details) COMPLIES	Building Level Controls 01 02 02
My Project Consists of (check all that apply): New Lighting System	Calculation Method Area (ft ²) Area Category Method 4614	Calculation MethodArea (ft²)Area Category Method0	D. EXCEPTIONAL CONDITIONS	Mandatory Demand Response §110.12(c) Shut-off controls §130.1(c) F
New Lighting System - Parking Garage Total Area of Work (ft ²)	4614	0	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	Not Required <= 10,000 SF Whole Building Other Area Level Controls
•	· · · ·		E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	04 05 06 07 08 09 10 11
			F. INDOOR LIGHTING FIXTURE SCHEDULE	Area Description Complete Building or Area Category Primary Function Area Controls \$130.1(a) Multi-Level Controls Shut-Off Controls Iit Secondary Interlocked F
			This table includes all permanent designed lighting and all portable lighting in offices. Designed Wattage: Conditioned Spaces	Pa
			01 02 03 04 05 06 07 08 09 10 Name or Item Complete Luminaire Modular Small American 8 Watts per How is Wattage Total Number Excluded per Field Inspector	CLASSROOM Classroom, Lecture, of Hamming Mandal Dimmer Occupancy Sensor Included Included No E *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. Mandal Dimmer Occupancy Sensor Included No E
			Tag Description Modular (Track) Fixture Aperture & Color Change ¹ Watts per luminaire ² How is wattage determined Iotal Number of Luminaires Excluded per §140.6(a)3	EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 Plan Sheet Showing Daylit Zor to §130.1(d)2 Plan Sheet Showing Daylit Zor
			A 35 WATT LED No No 35 CEC Default 60 No 2,100 □ □ Total Designed Watts: CONDITIONED SPACES 2,100 □ □	E2.30
istration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration P
Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-11-03 08:52:15	CA Building Energy Efficiency Standards - 2019 Nonresidential ComplianceReport Version: 2019.1.003Report Generated: 2022-11-03 08:52:15Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2 Schema Version: rev 20200601
of california oor Lighting			state of california Indoor Lighting	state of california Indoor Lighting
LTI-E IFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTI-E	NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	NRCC-LTI-E CALIFORNIA EN
	ROOSEVELT Report Page: RDE STREET Date Prepared:	(Page 4 of 7) 11/3/2022	Project Name:BUILDING C ROOSEVELTReport Page:(Page 5 of 7)Project Address:2324 VERDE STREETDate Prepared:11/3/2022	Project Name: BUILDING C ROOSEVELT Report Page: Project Address: 2324 VERDE STREET Date Prepared:
GHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGO	ORY METHODS		Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS	U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
area complying using the Complete Building or Area Category Methods per $\frac{6}{2}$ or adjustments per $\frac{6140.6(a)}{2}$ are being used .	<u>140.6(b)</u> are included in this table. Column 06 indicates if	f additional lighting power allowances per	This section does not apply to this project.	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 inc 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
ditioned Spaces 01 02	03 04 05	06	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.	Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html Yes No
Area Description Complete Building or Area Category Prim Function Area	hary Allowed Density (W/ft ²) Area (ft ²) Allowed Watt (Watts)	ttage Additional Allowance / Adjustment Area Category PAF	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	Image: Construction of the system of the
CLASSROOM Classroom, Lecture, or Training Vocational	Area 0.7 4,614 3,229.8 TOTALS: 4,614 3,229.8	No No See Tables J, or P for detail Image: Comparison of the second se	This section does not apply to this project.	Image: Second state of the system of the
DDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIG	HTING SYSTEM		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.	NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)
section does not apply to this project.			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/	
AILORED METHOD GENERAL LIGHTING POWER ALLOWANCE section does not apply to this project.			Yes No Field Inspector • • NRCI-LTI-01-E - Must be submitted for all buildings • <td< td=""><td></td></td<>	
DDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system Image: Control system <t< td=""><td></td></t<>	
section does not apply to this project.			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.	
ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIG section does not apply to this project.			Image: NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. Image: I	
DDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIA	L EFFECTS			
section does not apply to this project.	'HANDISE			
section does not apply to this project.				
OWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMI section does not apply to this project.	INT FACTOR (PAF))			
istration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration
Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-11-03 08:52:15	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-11-03 08:52:15 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2 Schema Version: rev 20200601
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LTI-E IFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTI-E		
t Name: BUILDING C	ROOSEVELT Report Page: RDE STREET Date Prepared:	(Page 7 of 7) 11/3/2022		
UMENTATION AUTHOR'S DECLARATION STATEMENT				
tify that this Certificate of Compliance documentation is accurate an				
nentation Author Name: Ir P. Golik P.E. any:	Documentation Author Signature: Signature Date: 2022-11-03			
ss:	CEA/ HERS Certification Identification (if applicable):			
! N Cedar #205 tate/Zip: no CA 93710	E17151 Phone: 559 275 5144			
PONSIBLE PERSON'S DECLARATION STATEMENT fy the following under penalty of perjury, under the laws of the State of California:				
 The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility. The energy features and performance specifications, materials, components, and manufactions. 				
 The energy features and performance specifications, materials, components, and manuface of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Con plans and specifications submitted to the enforcement agency for approval with this build 	npliance are consistent with the information provided on other applicabl			
provide and opcontrations submitted to the enforcement agency for approval with this build	available with the building permit(s) issued for the building, and made a s required to be included with the documentation the builder provides to			
I will ensure that a completed signed copy of this Certificate of Compliance shall be made inspections. I understand that a completed signed copy of this Certificate of Compliance is	Responsible Designer Signature:			
inspections. I understand that a completed signed copy of this Certificate of Compliance is insible Designer Name: OR P GOLIK P.E.	2022-11-03			
inspections. I understand that a completed signed copy of this Certificate of Compliance is onsible Designer Name: OR P GOLIK P.E. pany: ENGINEERING ess:	License:	• •		
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inspections. I understand that a completed signed copy of this Certificate of Compliance is nsible Designer Name: DR P GOLIK P.E. any: ENGINEERING ss: N CEDAR #205 tate/Zip:	License: E17151 Phone:			
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inspections. I understand that a completed signed copy of this Certificate of Compliance is onsible Designer Name: OR P GOLIK P.E. Dany: ENGINEERING ess: 2 N CEDAR #205 State/Zip: SNO CA 93710	License: E17151 Phone: 559 276 5144			
inspections. I understand that a completed signed copy of this Certificate of Compliance is onsible Designer Name: OR P GOLIK P.E. Dany: ENGINEERING ess: 2 N CEDAR #205 State/Zip: SNO CA 93710	License: E17151 Phone: 559 276 5144 Registration Date/Time:	Registration Provider: Energysoft Report Generated: 2022-11-03 08:52:15		
inspections. I understand that a completed signed copy of this Certificate of Compliance is onsible Designer Name: OR P GOLIK P.E. Dany: ENGINEERING ess: 2 N CEDAR #205 State/Zip: SNO CA 93710	License: E17151 Phone: 559 276 5144	Registration Provider: Energysoft Report Generated: 2022-11-03 08:52:15		

Indoor Lighting NRCC-LTI-E							CALIFORN	IA ENERGY	COMI
CERTIFICATE OF COMPLIANCE									N
Project Name:			ROOSEVELT Rep	-					(Pag
Project Address:		2324 VE	RDE STREET Date	Prepared:					1
F. INDOOR LIGHTING FIXT	URE SCHEDULE								
	r small aperture and color changing pplicant should enter full rated watt			<u>40.6(a)4B</u> is adjusted t	o be 75% of ti	heir rated wa	ittage. Table F	automatica	lly m
² Authority Having Jurisdiction the lamp.	n may ask for Luminaire cut sheets t	o confirm watta	ge used for com	bliance per <u>§130.0(c)</u> V	Vattage used	must be the I	maximum rate	ed for the lui	minai
G. MODULAR LIGHTING S	YSTEMS								
This section does not apply to	o this project.								
H. INDOOR LIGHTING COM	NTROLS (Not including PAFs)								
	ontrols for conditioned and uncondit lighting controls section of the Comp								w
Building Level Controls	ighting controls section of the comp	mance summary		n page min snow DOL					
	01			()2			()3
	Demond Demonso (110.10/.)			Chub off cont		.		Field Ir	nspec
	y Demand Response §110.12(c)			Shut-off cont	rols §130.1(c)			Pass	
Mandator									
	ot Required <= 10,000 SF			Whole Bui	lding Other				
	ot Required <= 10,000 SF			Whole Bui	lding Other				
No	ot Required <= 10,000 SF 05	06	07	Whole Bui	lding Other	10	11		12
No Area Level Controls	-	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)		-	Secondary Daylighting	Interlocked	field Ir	nspec
No Area Level Controls 04	05 Complete Building or Area Category Primary Function	Area Controls	Multi-Level Controls	08 Shut-Off Controls	09 Primary/Sky lit Daylighting	Secondary Daylighting	Interlocked Systems		
Area Level Controls 04 Area Description CLASSROOM *NOTES: Controls with a * rea	05 Complete Building or Area Category Primary Function Area Classroom, Lecture, or Training Vocational Area quire a note in the space below exp	Area Controls §130.1(a) Manual ON/OFF laining how com	Multi-Level Controls §130.1(b) Dimmer pliance is achiev	08 Shut-Off Controls §130.1(c) Occupancy Sensor red.	09 Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Ir Pass	nspec
Area Level Controls 04 Area Description CLASSROOM *NOTES: Controls with a * real	05 Complete Building or Area Category Primary Function Area Classroom, Lecture, or Training Vocational Area	Area Controls §130.1(a) Manual ON/OFF laining how com	Multi-Level Controls §130.1(b) Dimmer pliance is achiev	08 Shut-Off Controls §130.1(c) Occupancy Sensor red.	09 Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d) Included	Interlocked Systems §140.6(a)1 No	Field Ir Pass	nspec
Area Level Controls 04 Area Description CLASSROOM *NOTES: Controls with a * ree EX: Conference 1: Primary/Sk	05 Complete Building or Area Category Primary Function Area Classroom, Lecture, or Training Vocational Area quire a note in the space below exp	Area Controls §130.1(a) Manual ON/OFF laining how com	Multi-Level Controls §130.1(b) Dimmer pliance is achiev	08 Shut-Off Controls §130.1(c) Occupancy Sensor red.	09 Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d) Included	Interlocked Systems §140.6(a)1 No 13	Field Ir Pass	
Area Level Controls 04 Area Description CLASSROOM *NOTES: Controls with a * ree EX: Conference 1: Primary/Sk	05 Complete Building or Area Category Primary Function Area Classroom, Lecture, or Training Vocational Area quire a note in the space below exp	Area Controls §130.1(a) Manual ON/OFF laining how com	Multi-Level Controls §130.1(b) Dimmer pliance is achiev	08 Shut-Off Controls §130.1(c) Occupancy Sensor red. ghting; EXCEPTION 1	09 Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d) Included	Interlocked Systems §140.6(a)1 No 13 t Showing Day E2.30	Field Ir Pass	Ispec

CERTIFICATE C	OF COMPLIA	NCE			NRCC
Project Name:	:	BUILDING C ROOSEVELT	Report Page:		(Page 6
Project Addre	ss:	2324 VERDE STREET	Date Prepared:		11/3/
		de based on information provided in this document. If any selection		•	
Selections ha Additional Re Test Technicio	emarks. The an Certifica	se documents must be provided to the building inspector during con tion Provider (ATTCP). For more information visit: http://www.energy	struction and any with "-A" in the form name y.ca.gov/title24/attcp/providers.html	must be completed through an Ad	
Selections ha Additional Re	e <mark>marks</mark> . The	se documents must be provided to the building inspector during con tion Provider (ATTCP). For more information visit: http://www.energy	struction and any with "-A" in the form name	must be completed through an Ad	cceptance nspector
Selections ha Additional Re Test Technicio	emarks. The an Certifica	se documents must be provided to the building inspector during con tion Provider (ATTCP). For more information visit: http://www.energy	struction and any with "-A" in the form name y.ca.gov/title24/attcp/providers.html /Title	must be completed through an Ad	cceptance
Selections ha Additional Re Test Technicio	emarks. The an Certifica	se documents must be provided to the building inspector during con tion Provider (ATTCP). For more information visit: http://www.energy Form	struction and any with "-A" in the form name v.ca.gov/title24/attcp/providers.html /Title tomatic time switch controls.	must be completed through an Ad Field In Pass	nspector Fail
Selections ha Additional Re Test Technicio	emarks. The an Certifica	se documents must be provided to the building inspector during con tion Provider (ATTCP). For more information visit: http://www.energy Form NRCA-LTI-02-A - Must be submitted for occupancy sensors and au	struction and any with "-A" in the form name y.ca.gov/title24/attcp/providers.html /Title tomatic time switch controls. s.	Field In Pass	nspector Fai



STATE OF CA	LIFORNIA
Indoor	Lighting

NRCC-LTI-E
CERTIFICATE OF COMPLIANCE

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This pati		mpli	ance with requirements	in <u>§</u>	<u>110.9, §110.12(c), §</u>	<u>130.0</u> , <u>4</u>	<u>§130.1, §140.6</u> and <u>§141.0(b)2</u> for indoor lighting scopes of	ISI
Proj	ect Name:			BU	ILDING D ROOSEVELT	Report P	Page:	
Proj	ect Address:				2324 VERDE STREET	Date Pre	repared:	
A. (GENERAL INFORMATION							
01	Project Location (city)		BAKERSFIELD			04	4 Total Conditioned Floor Area (ft ²) 4,614	
02	Climate Zone		13			05	5 Total Unconditioned Floor Area (ft ²) 0	
03	Occupancy Types Within Project (sele	ct a	ll that apply):			06	6 # of Stories (Habitable Above Grade) 1	
	Office		Retail		Warehouse		Hotel/Motel School	
	Parking Garage		High-Rise Residential		Relocatable		Healthcare 🛛 🖾 Other (Write in)
								_

B. PROJECT SCOPE

Scope of Work	Conditioned Spa	ces	Unconditio
01	02	03	04
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Metho
☑ New Lighting System	Area Category Method	4614	Area Category Met
New Lighting System - Parking Garage			
Total Area of Work (ft ²)	4614	•	(

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

STATE OF CALIFORNIA

Indoor Lighting							Indoor L	ighting					
NRCC-LTI-E					CALIFORNIA ENE	RGY COMMISSION	NRCC-LTI-E				CALIFC	ORNIA ENERGY	сомм
CERTIFICATE OF COMPLIANCE						NRCC-LTI-E	CERTIFICATE						NRC
Project Name:		VELT Report Page:				(Page 4 of 7)	Project Nam			D ROOSEVELT Report Page:			(Page
Project Address:	2324 VERDE ST	REET Date Prepared:				11/3/2022	Project Add	'ess:	2324	VERDE STREET Date Prepared:			11/3
	E: COMPLETE BUILDING OR AREA CATEGORY I						10.20		EDUCTION COMPLIANCE FOR ALTERATIONS				
<u>§140.6(c)</u> or adjustments per <u>§140.6</u>	blete Building or Area Category Methods per <u>§140.6</u> 6 <u>(a)</u> are being used .	<u>o(b)</u> are included in t	this table. Colu	mn 06 indicates if dadit	tional lighting power d	allowances per		i does not a	pply to this project.				
Conditioned Spaces							R. 80% LIG	HTING PO	WER FOR ALL ALTERATIONS - CONTROLS EXCEPTION	ONS			
01	02	03	04	05	06	6	This section	n does not a	pply to this project.				
Area Description	Complete Building or Area Category Primary	Allowed Density	Area (ft ²)	Allowed Wattage	Additional Allowar	nce / Adjustment							
Alea Description	Function Area	(W/ft ²)	Alea (It)	(Watts)	Area Category	PAF	S. DAYLIG	HT DESIGN	POWER ADJUSTMENT FACTOR (PAF)				
CLASSROOM	Classroom, Lecture, or Training Vocational Area	0.7	4,614	3,229.8	No	No	This section	n does not a	pply to this project.				
		TOTALS:	4,614	3,229.8	See Tables J, o	or P for detail	7 9 501 4 9						
		-				-			REQUIRED CERTIFICATES OF INSTALLATION				
J. ADDITIONAL ALLOWANCE: AR This section does not apply to this p	EA CATEGORY METHOD QUALIFYING LIGHTIN roject.	G SYSTEM					Additional	Remarks. Th	nade based on information provided in this document. If nese documents must be provided to the building inspect n.gov/title24/2019standards/2019_compliance_docume	or during construction and can be found onlin		be included in "	Table E.
K. TAILORED METHOD GENERAL	LICHTING DOW/ED ALLOW/ANCE											Field I	Inspecto
-							Yes	No		Form/Title		Pass	Fa
This section does not apply to this p	roject.							0	NRCI-LTI-01-E - Must be submitted for all buildings				
	ANCE: TAILORED WALL DISPLAY						0	۲	NRCI-LTI-02-E- Must be submitted for a lighting contr recognized for compliance.	ol system, or for an Energy Management Cor	trol System (EMCS), to be		
This section does not apply to this p								۲	NRCI-LTI-04-E - Must be submitted for two interlocke multipurpose room or a theater to be recognized for		n center, a conference room, a		
	WANCE: TAILORED FLOOR AND TASK LIGHTIN	G							NRCI-LTI-05-E- Must be submitted for a Power Adjust	ment Factor (PAF) to be recognized for comp	liance.		
This section does not apply to this p	roject.								NRCI-LTI-06-E- Must be submitted for additional wat	age installed in a video conferencing studio t	o be recognized for compliance.		
N. ADDITIONAL LIGHTING ALLOW	VANCE: TAILORED ORNAMENTAL/SPECIAL EFI	ECTS										•	
This section does not apply to this p	roject.												
O. ADDITIONAL LIGHTING ALLOW	VANCE: TAILORED VERY VALUABLE MERCHAN	DISE											
This section does not apply to this p	roject.												
P. POWER ADJUSTMENT: LIGHTI	NG CONTROL CREDIT (POWER ADJUSTMENT F	ACTOR (PAF))											
This section does not apply to this p	roject.												
Registration Number:	Re	gistration Date/Time:			Registration P	Provider: Energysoft	Registration	Number:		Registration Date/Time:	Re	gistration Provid	der: Ener
CA Building Energy Efficiency Standards		oort Version: 2019.1.0 nema Version: rev 2020			Report Generated: 20	022-11-03 08:54:39	CA Building	Energy Effici	ency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Ge	enerated: 2022-1	11-03 08:

Indoor Lighti NRCC-LTI-E	0	CALIFC
CERTIFICATE OF CON	IPLIANCE	
Project Name:	BUILDING D ROOSE	/ELT Report Page:
Project Address:	2324 VERDE STI	EET Date Prepared:
DOCUMENTATIO	N AUTHOR'S DECLARATION STATEMENT	
I certify that this	Certificate of Compliance documentation is accurate and com	plete.
Documentation Author Davor P. Golik P.E.	Name:	Documentation Author Signature:
Company: DPG Engineering, I	nc.	Signature Date: 2022-11-03
Address: 6702 N Cedar #205		CEA/ HERS Certification Identification (if applicable): E17151
City/State/Zip: Fresno CA 93710		Phone: 559 275 5144
	RSON'S DECLARATION STATEMENT nder penalty of perjury, under the laws of the State of California:	
 I am eligible The energy of Title 24, The building 	ation provided on this Certificate of Compliance is true and correct. e under Division 3 of the Business and Professions Code to accept responsibility for the features and performance specifications, materials, components, and manufactured d Part 1 and Part 6 of the California Code of Regulations. g design features or system design features identified on this Certificate of Compliance pecifications submitted to the enforcement agency for approval with this building perr	evices for the building design or system design identified on this Certificate of Compli are consistent with the information provided on other applicable compliance docum
5. I will ensur	e that a completed signed copy of this Certificate of Compliance shall be made availabl . I understand that a completed signed copy of this Certificate of Compliance is require	with the building permit(s) issued for the building, and made available to the enforce
Responsible Designer N DAVOR P GOLIK P.E		Responsible Designer Signature:
Company: DPG ENGINEERING		Date Signed: 2022-11-03
Address: 6702 N CEDAR #20	5	License: E17151
City/State/Zip: FRESNO CA 93710		Phone: 559 276 5144

Registration Number:		Registration Date/Time:	Reg
CA Building Energy Efficiency	Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Gen

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Unconditioned	Snaces
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ulation Method	Area (ft ²)
Category Method	0
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Registration Provider: Energysoft Report Generated: 2022-11-03 08:54:39

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CERTIFICATE OF COM	PLIANCE														NRCC-L
Project Name:						DOSEVELT		-							(Page 2 c
Project Address:				232	4 VERL	DE STREET	Date Pre	pared:							11/3/2
C. COMPLIANCE	RESULTS														
If any cell on this to	ble says "DOES I	NOT COMPLY"	or "COMPLII	ES with Exception	nal Co	onditions"	" refer to	Table L). for gui	dance.					
		Allowed Light	ing Power p	er §140.6(b) (V	Vatts)			Adju	sted Ligh	nting Powe	er per §1	40.6(a) (Watts)	Complia	nce Results
Lighting in	01	02	03	04		05		1	06	07			08		09
conditioned and unconditioned spaces must not b combined for compliance per §140.6(b)1	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additiona §140.6(c)2 (+)	I §140.6(c)3	=	Tota Allowe (Watt	ed	Des	otal iigned /atts)	Adjustm PAF Ligh Control CI <u>§140.6(</u> (-)	ting edits =	(*	I Adjusted Watts) ncludes ustments		t be >= 08 <u>40.6</u>
	(See Table I)	(See Table I)	(See Table	J) (See Table K)			(See	Table F)	(See Tab	e P)				
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Unconditioned					=		≥				=				
	-		•					C	ontrols C	ompliance	e (See Tal	ble H f	or Details)	CON	IPLIES
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Project Addre		2324 VERDE STREET Date Prepared:		11/3/202
Q. RATED I	POWER REI	DUCTION COMPLIANCE FOR ALTERATIONS		
This section	does not ap	ply to this project.		
R. 80% LIG	HTING POV	VER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS		
This section	does not ap	ply to this project.		
5. DAYLIGH	T DESIGN	POWER ADJUSTMENT FACTOR (PAF)		
This section	does not ap	ply to this project.		
T. DECLARA	ATION OF R	EQUIRED CERTIFICATES OF INSTALLATION		
Selections h	ave been ma	EQUIRED CERTIFICATES OF INSTALLATION ade based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be ase documents must be provided to the building inspector during construction and can be found online at	included in To	able E.
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ORNIA ENERGY COMMISSION NRCC-LTI-E (Page 7 of 7) 11/3/2022 nsible designer) liance conform to the requirements ments, worksheets, calculations, preement agency for all applicable er at occupancy. egistration Provider: Energysoft enerated: 2022-11-03 08:54:39

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U. DECLAR	ATION OF RE	EQUIRED CERTIFICATES OF ACCEPTANCE		
Additional R	emarks. These	le based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should e documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed to on Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html		
Yes	No	Form/Title	Field In	spector
ics		romy nee	Pass	Fail
۲	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
۲	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
0	۲	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0	۲	NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		

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Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft

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H. INDOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls Other Controls Area Level Controls Area Level Controls Status (Controls) Complete Building or Area Category Primary Function Area Description Category Primary Function Area Description Category Primary Function Area Description CLASSROOM School Building OFFICE School Building OFFICE School Building OVORF OVORF OVORF OVORF OFFICE School Building OVORF OVORF OVORF OVORF OVORF OVORF OVORF OVORF Dimmer OCCUPANCE: Controls with a * require anote in the space below explaining to schweid. CC.Controls with a * require anote in the space below explaining how compliance is schlweid. LILUEHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Conditioned Space <
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E CALIFOR CERTIFICATE OF COMPLIANCE Project Name: BUILDING E ROOSEVELT Report Page: Project Name: 2324 VERDE STREET Date Prepared: Documentation Author Name: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Icertify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Signature: June June June June June June June June
Indoor Lighting NRCC-LTI-E CALIFOR CALIFOR CALIFOR Project Name: BUILDING E ROOSEVELI Report Page: Project Address: 2324 VERDE STREET Date Prepared: Project Address: Date Prepared: Project Address: Documentation Author Name: Documentation Author Name: Documentation Author Signature: Jance Hall Jance Hall Jance Hall Company: Date Prepared: Date P
Project Name: BUILDING E ROOSEVELT Report Page: Project Address: 2324 VERDE STREET Date Prepared: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature: Jaco Davor P. Golik P.E. Documentation Author Signature: Jaco Company: DPG Engineering, Inc. Signature Date: 2022-11-03 Address: CEA/ HERS Certification Identification (if applicable): E17151 City/State/Zip: Phone: 559 275 5144
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. Company: DPG Engineering, Inc. Address: 6702 N Cedar #205 City/State/Zip: Fresno CA 93710
I certify that this Certificate of Compliance documentation is accurate and complet. Documentation Author Name: Documentation Author Signature: Davor P. Golik P.E. Documentation Author Signature: Company: DPG Engineering, Inc. Address: CEA/ HERS Certification Identification (if applicable): 6702 N Cedar #205 E17151 City/State/Zip: Phone: Fresno CA 93710 559 275 5144
Davor P. Golik P.E.Davor P. Golik P.E.Company: DPG Engineering, Inc.Signature Date: 2022-11-03Address: 6702 N Cedar #205CEA/ HERS Certification Identification (if applicable): E17151City/State/Zip: Fresno CA 93710Phone: 559 275 5144
Address: CEA/ HERS Certification Identification (if applicable): 6702 N Cedar #205 E17151 City/State/Zip: Phone: Fresno CA 93710 559 275 5144
Fresno CA 93710 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.
 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 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 of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documer plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure 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 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 Responsible Designer Name: DAVOR P GOLIK P.E. Company:
DPG ENGINEERING 2022-11-03 Address: License:
6702 N CEDAR #205 E17151 City/State/Zip: Phone: FRESNO CA 93710 559 276 5144
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Registration Number: Registration Date/Time: Registration Date/Time:

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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.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-11-03 08:56:44

Project Name: Project Address:	:		BUIL	DING E ROOSEVE	LT Report Page:					(Page 3
					ET Date Prepared:					11/3,
F. INDOOR LI	GHTING FIXTURE SCHEDUI	LE								
В	25 WATT LED	No	No	25	CEC Default	4	No	100		
	•	·	·		Total Design	ned Watts: CO	NDITIONED SPACES	1,430		
G. MODULAR	R LIGHTING SYSTEMS									
This section do	pes not apply to this project.	ncluding PAFs								
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Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Indoor Li	ghting			
NRCC-LTI-E			NIA ENERGY (NRCC-LTI
Project Name		BUILDING E ROOSEVELT Report Page:		(Page 6 of
Project Addre		2324 VERDE STREET Date Prepared:		11/3/20
,				
T. DECLARA	TION OF F	REQUIRED CERTIFICATES OF INSTALLATION		
Additional Re	emarks. Th	ade based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be ese documents must be provided to the building inspector during construction and can be found online at gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCl/	included in Te	able E.
Yes	No	Form/Title	Field In	spector
163	NO		Pass	Fail
۲	0	NRCI-LTI-01-E - Must be submitted for all buildings		
\bigcirc	۲	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.		
0	۲	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.		
0	۲	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		
0	۲	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.		
		REQUIRED CERTIFICATES OF ACCEPTANCE		
	and the second	REQUIRED CERTIFICATES OF ACCEPTANCE ade based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should	d ha included	in Tabla E
Additional Re	emarks. Th	ese documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be completed to the building inspector during construction and any with "-A" in the form name must be complet		
Yes	No	Form/Title	Field In	spector
165	1910		Pass	Fail
۲		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
۲	\bigcirc	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
\bigcirc	۲	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0		NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft Report Generated: 2022-11-03 08:56:44

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Report Generated: 2022-11-03 08:56:44

