



WASHINGTON MIDDLE SCHOOL HVAC REPLACEMENT

BAKERSFIELD CITY SCHOOL DISTRICT 1101 NOBLE AVENUE BAKERSFIELD, CA 93305





BAKERSFIELD CITY SCHOOL

REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

SCOPE OF WORK

MAKE-UP AIR UNITS IN BUILDINGS B, C, D, E, F, G, AND H WITH MODERN, MORE EFFICIENT ROOF TOP PACKAGE UNITS

REMOVE ALL EXISTING OUTDATED, CENTRAL PLANT EQUIPMENT FROM THE CHILLER YARD AFTER THE NEW EQUIPMENT IS APPROVED AND FULLY OPERATIONAL.

MECHANICAL PLAN - BLDG G

MECHANICAL PLAN - BLDG H

TITLE 24 DOCS

TITLE 24 DOCS

TITLE 24 DOCS TITLE 24 DOCS

MECHANICAL PLAN - CENTRAL PLANT

ELECTRICAL

CODES, NOTES SYMBOLS & FIXTURE SCHED

ENLARGED SITE ELECTRICAL PLAN - DEMO ENLARGED SITE ELECTRICAL PLAN - NEW

DEMOLITION POWER PLANS BLDGS B, C, D & E

DEMOLITION LIGHTING PLANS BLDGS B, C, D & E

DEMOLITION LIGHTING PLANS BLDGS F, G & H

NEW POWER PLANS BLDGS B. C. D. & E NEW POWER PLANS - BLDG F, G & H **NEW ELECTRICAL PLAN - BUILDING A** NEW LIGHTING PLANS BLDGS B, C, D, & E NEW LIGHTING PLANS - BLDG F, G & H

TYPICAL LIGHTING CONTROL PLANS E2.30 NEW ROOF ELECTRICAL PLANS BLDGS B, C, D & E

NEW POWER PLANS - BLDG F, G & H

6 SHEETS E3.12 FIRE ALARM SIGNALS PLANS - BUILDING A

E3.22 FIRE ALARM DETAILS

DEMOLITION FIRE ALARM SIGNALS PLAN BLDGS B, C, D

DEMOLITION FIRE ALARM SIGNALS PLAN - BLDG F, G, &

NEW FIRE ALARM SIGNALS PLAN - BLDGS B, C, D & E

NEW FIRE ALARM SIGNALS PLAN - BLDGS F, G, & H

FIRE ALARM CODES, NOTES, SYMBOLS, CALCS

FIRE ALARM SYSTEM RISER DIAGRAM

ONELINE DIAGRAM - DEMO

ONELINE DIAGRAM

ONELINE DIAGRAM

PANEL SCHEDULES

PANEL SCHEDULES

INDOOR LIGHTING COMPLIANCE

SITE ELECTRICAL PLAN

ELECTRICAL POWER DISTRIBUTION

SHEET INDEX

M2.91

DESCRIPTION

GENERAL

ARCHITECTURAL

T0.00 TITLE SHEET

BUILDING A PLAN

DEMOLITION PLANS

SECTIONS DEMOLITION

SECTIONS IMPROVEMENTS

DEMO REFLECTED CEILING PLANS

DEMO REFLECTED CEILING PLANS

STRUCTURAL

MATERIAL DATA, PROJECT INFORMATION,

ENLARGED ROOF FRAMING PLANS No. 1

ENLARGED ROOF FRAMING PLANS No. 2 ENLARGED ROOF FRAMING PLANS No. 3

ENLARGED ROOF FRAMING PLANS No. 4

MECHANICAL

TESTING & SPECIAL INSPECTION

ROOF STRENGTHENING DETAILS

GENERAL NOTES - LEGEND

MECHANICAL SITE PLAN

MECHANICAL PLAN - BLDG A

MECHANICAL PLAN - BLDG B

MECHANICAL PLAN - BLDG C

MECHANICAL PLAN - BLDG D

MECHANICAL PLAN - BLDG E

MECHANICAL PLAN - BLDG F

SCHEDULES

INDICATES HEIGHT IN RELATION TO 0'-0"

WINDOW SCHEDULE KEY

KEYNOTE SCHEDULE KEY

DOOR SCHEDULE KEY

OFFICE ── ROOM NAME

100

- ROOM NUMBER

REFLECTED CEILING PLAN

INTERIOR DETAILS

FLOOR PLANS

FLOOR PLANS

ROOF PLANS

ROOF PLANS

UPGRADE FIRE ALARM SYSTEM AT BUILDINGS B, C, D, E, F, G

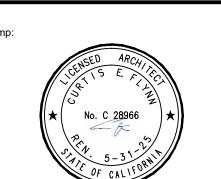


integrated designs

by SOMAM, Inc. **ARCHITECTURE**

ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com



TITLE SHEET

5525

34 SHEETS

ABBREVIATIONS	VICINITY MAP	BUILDING DATA	STATEMENT OF GENERAL CONFORMANCE
ABOVE ABV DIVISION DIV. ABOVE A.F.F. DOOR DR. LAMINATE LAM. BASE		BLDG BUILDING OCC. AREA CONSTRUCTION DSA APP. No. DESCRIPTION TYPE (S.F.) TYPE NUMBER	ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
FINISHED DOUBLE DBL LAVATORY LAV. FLOOR DOWN DN. LEFT HAND L.H. SANITARY NAPKIN S.N.D.		B CLASSROOMS E 7613 V-B 12126 - 1954 51547 - 1989	THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS
ACCESSIBLE A.C.C. DOWNSPOUT D.S. LINOLEUM LINO. DISPENSER ACOUSTICAL ACOUST., ACT. DRAWING DRWG. LONG LG. SANITARY NAPKIN S.N.R. ADJACENT ADJ DRINKING D.F. RECEPTACLE		C CLASSROOMS E 8482 V-B 12126 - 1954 51547 - 1989	DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN
ADJUSTABLE ADJUST. FOUNTAIN MACHINE BOLT M.B. SCHEDULE SCH. AIR A/C MACHINE SCREW M.S. SEAT COVER S.C.D.	ST ST.	D CLASSROOMS E 7883 V-B 12126 - 1954 51547 - 1989	EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.
CONDITIONING EACH EA. MANUFACTURER MFGR. DISPENSER ALUMINUM ALUM.,AL. ELECTRIC ELEC. MATERIAL MAT.,MATL. SECTION SECT.	KKLEY ST RTMOUTH	E CLASSROOMS E 6421 V-B 12126 - 1954 51547 - 1989	THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE
ANCHOR BOLT A.B. ELECTRIC DRINKING E.D.F. MAXIMUM MAX. SELF—TAPPING S.T. ANODIZED ANOD. EQUAL EQ. MECHANICAL MECH. SHEATHING SHTG. ARCHITECTURAL ARCH. EQUIPMENT EQUIP. MEDIUM MED. SHEET SHT.	NOBLE AVE A H	F MULTI-USE MUSIC CLASSRM. A2/E 12472 V-B 12126 - 1954 51547 - 1989	IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)
ASPHALT A.C. ESTIMATE EST. MEMBRANE MBNE. SHEET METAL S.M. CONCRETE EXHAUST EXH. METAL MTL. SHEET METAL & AIR SMACNA	COLUMBUS ST	G CLASSPOOMS E 8206 V.B. 12126 - 1954	"THE STATEMENT OF GENERAL CONFORMANCE" SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17302 AND
EXHAUST FAN E.F. METAL PLANAR M.P.C. CONDITIONING BACKBOARD BACKBRD. EXISTING (E) CEILING CONTRACTOR BFAM BM FXPANSION FXP. METAL TOILET M.T.P. NATIONAL	HEIGHT ST	H CLASSROOMS E 5633 V-B 51547 - 1989	B1138 OF THE EDUCATIONAL CODE AND SECTIONS 4-336, 4-431 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-417(b))
BEAM BM EXPANSION EXP. METAL TOILET M.T.P. NATIONAL BENCH MARK B.M. EXPANSION JOINT E.J. PARTITION ASSOCIATION BENT ANCHOR BAB. EXTERIOR EXT. MILLIMETER MILL. SHEET METAL S.M.S.	KNOTTS ST CA ST HWY 178	151547 - 1989	SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.
BOLT FABRIC WALL F.W.C. MINIMUM MIN. SCREWS BETWEEN BTWN. COVERING MISCELLANEOUS MISC. SHELVES SH.		INSPECTOR OF RECORD	APPLICABLE: ■ STRUCTURAL □ PLUMBING ■ MECHANICAL ■ ELECTRICAL □ CIVIL
BLOCK BLK. FACE OF BLOCK F.O.B. MULLION MULL. SIMILAR SML.,SIM. BOTTOM BTM.,BTTM. FACE OF CONCRETE F.O.C. NOT IN CONTRACT N.I.C. SINK S. BOUNDARY B.N. FACE OF STUD F.O.S. NOT TO SCALE N.T.S. SOAP DISPENSER S.D.		THIS PROJECT REQUIRES A CLASS 3 INSPECTOR.	
NAILING FACE OF WALL F.O.W. NUMBER NO.,#. SPECIFICATION SPEC. BUILDING BLDG. FACTORY FINISH F.F. SPLASH SPL.	PROJECT SITE	A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT	SIGNATURE OF THE ARCHITECT/ENGINEER NAME. TITLE. AFFILIATION DATE
FEET/FOOT F.T. OPPOSITE HAND O.H. SPLASH BLOCK S.B. CABINET CAB EFMININE NARVIN E.N.D. OPPOSITE OPP. SQUARE SQ.		(OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK.	CURTIS FLYNN, ARCHITECT, INTEGRATED DESIGNS BY SOMAM, INC. C—28966 05—31—23
CADMIUM CAD. DISPOSAL ON CENTER O.C. STAINLESS STEEL S.S. CARPET CPT. FIBER GLASS F.G.,FIBERGL. OPENING OPG. STANDARD STD. CARRIAGE BOLT C.B. FINISH FIN. OUTSIDE DIAMETER O.D. STEEL STL.	HVAC REPLACEMENT	THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1,	LICENSED NUMBER EXPIRATION DATE
CAST IRON C.I. FIRE EXTINGUISHER F.E.C. /DIMENSION STORAGE STOR. CFILING CLG.CFL'G CARINET OVAL HEAD O.H. STIFFENER STIFF.	1101 NOBLE AVENUE BAKERSFIELD, CA 93305	TITLE 24, CCR.	SYMBOLS
CEILING DIFFUSER C.D. FIRE RATED F.R.G.B OVER (ON) O/ STRUCTURAL STRUCT. CEILING GRILLE C.G. GYP. BD OVERFLOW OVFL. SUSPENDED SUSP.	PROJECT DIRECTORY	APPLICABLE CODES	SECTION KEY
CEILING REGISTER C.R. FIRE TREATED F.T. OVERHAND OH. SWITCH SW. CEMENT CEM. FIXED GLASS GL. CENTERLINE FLAT HEAD F.H. PAINT PT. TELEPHONE TEL.,TELE.	OWNER: ELECTRICAL ENGINEER:	AI I LIOADLL GODLG	A SECTION IDENTIFICATION
C.L.,Q. CERAMIC FLOOR FLR. PAIR PR. THICK THK. TILE C.T. FLOOR DRAIN F.D. PAPER TOWEL P.T.D. THRESHOLD THR.	BAKERSFIELD CITY SCHOOL STEVE EASTHAM, PE	PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020*	A3.03 SHEET NUMBER
CIRCUIT CRT. FLUORESCENT FLUOR. DISPENSER TOILET PAPER T.P. CLEANOUT C.O. FOOTING FTG. PLASTIC PLAS. TOILET PAPER HOLDER T.P.H. CLEANOUT C.O. FOOTING FTG. PLASTIC PLAS. TOLET PAPER HOLDER T.P.H. CLEANOUT C.O. FOOTING FTG. PLASTIC PLAS. TOLET PAPER HOLDER T.P.H. CLEANOUT C.O. FOOTING FTG. PLASTIC PLASTIC TOLETANCE TOL.	MARK LUQUE, ASSOCIATES	 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 	DETAIL KEY DETAIL NUMBER
CLEAR CLR. POONDATION FOIL. FLATE FL. COLD WATER C.W. FRAMING FRM'G. PLATED PLTD. TRANSFORMER TRANS. COLLINAL COLLINA COLLINAL COLLINAL COLLINAL COLLINAL COLLINAL COLLINAL COLLINAL	SUPERINTENDENT 131 S. DUNWORTH ST. 1300 BAKER ST, VISALIA, CA 93292 BAKERSFIELD, CA 93305 TEL: (559)733-2671 X 101	 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS). 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS). 	SHEET NUMBER
COMBINATION / COMB. GALVANIZE GALV. PLYWOOD PLYWD. UNDERWRITERS COMBUSTION GALVANIZED IRON G.L. POINT PT. U.L.	TEL: 559-457-3074 seastham@rse-eng.com EMAIL: luquem@bcsd.com	 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS). 	INTERIOR ELEVATION KEY
COMPOSITION, COMP. GLASS GL. CONNECTION UNLESS OTHERWISE U.O.N. COMPOSITE CONC. GRAB BAR G.B. CONNECTION NOTED	ARCHITECT: <u>STRUCTURAL:</u>	 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS). 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR. 	A ELEVATION DIRECTION ELEVATION IDENTIFICATION
CONCRETE C.M.U. GROUND GND. POUND PER P.S.F. URINAL UR. MASONRY UNIT GYPSUM GYP. SQ. FOOT VENTILATE VENT.	FELIPE CEBALLOS INTEGRATED DESIGNS by CORNERSTONE	 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR. 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS). 	D A5.01 B SHEET NUMBER
CONDITION COND. GYPSUM BOARD G.B.,GYP.BD. POUND PER P.S.I. / VENTILATION CONNECTION CONN. HARDWARE HDW,HDWR. SQ. INCH VEDTICAL	SOMAM, Inc. STRUCTURAL 6011 N. FRESNO SUITE ENGINEERING	2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS). 2019 CALIFORNIA ORDEN BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS).	C ELEVATION DATUM
CONSTRUCTION CONST. HEAD HD. QUARTER QTR. VINYL COMPOSITION V.C.T.	#130 986 W. ALLUVIAL , ste. 201	 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 	±+1'-0"

FRESNO, CA 93711

TEL: (559)320-3200

dlee@cseg.com

2019 CALIFORNIA REFERENCED STANDARDS CODE. PART 12. TITLE 24 CCR TITLE 19

2016 NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)

2003 UI -464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING

• 2002 (R2010) UL-1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING

• FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC

(SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA

BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE

2016 NFPA-80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES

• 1999 UL-521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING

CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

SYSTEMS, INCLUDING ACCESSORIES

NFPA STANDARDS.

FRESNO, CA 93710

TEL: 559-436-0881

ENGINEER:

SOMAM, Inc.

fceballos@somam.com

MECHANICAL/PLUMBING

INTEGRATED DESIGNS by

6011 N. FRESNO SUITE

EMAIL: Ilum@somam.com

FRESNO, CA 93710

TEL: 559-436-0881

VINYL WALL COVERING V.W.C.

WATER CLOSET

WATER RESISTANT

WATER PROOF

WIRE GLASS

CONSTRUCTION C.J.

CONTINUOUS

CONTRACTOR

COORDINATE

COUNTERSINK

DEPTH, DEEP

DETAIL

DIAGONAL

DIAMETER

DIMENSION

DISPENSER

/DISPOSAL

HT..H.

RECEPTACLE

REFLECTED

REFRIGERATOR

REINFORCING

REVISE, REVISION REV.

REMOVABLE

REQUIRED

RIGHT HAND

RESILIENT

REFL'D.

HOLLOW METAL H.M.

INSIDE DIAMETER/ I.D.

HORIZONTAL

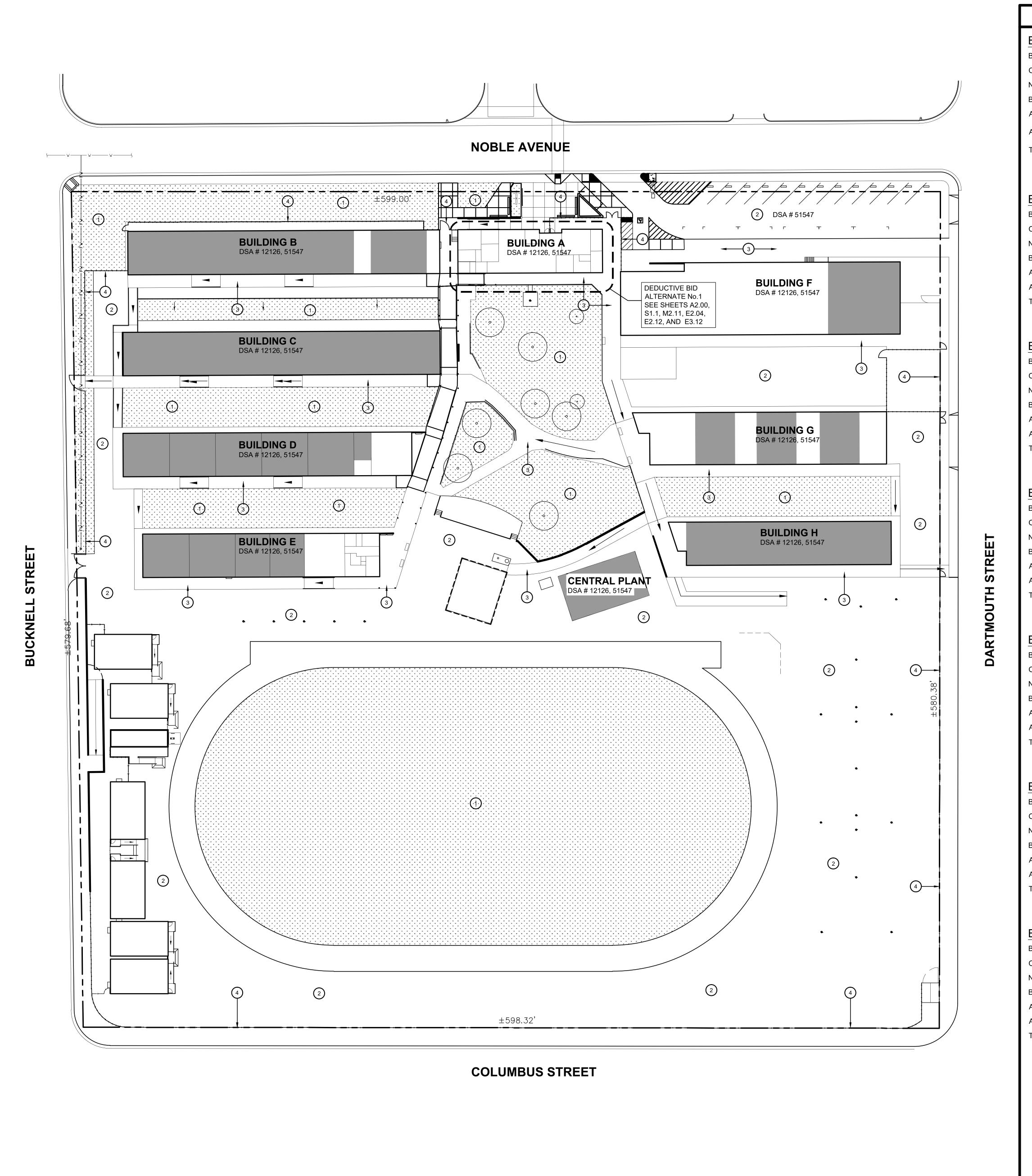
HOT WATER

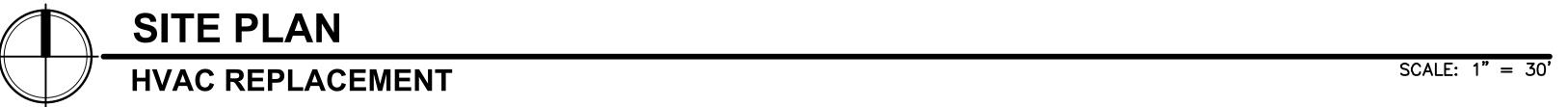
HOSE BIBB

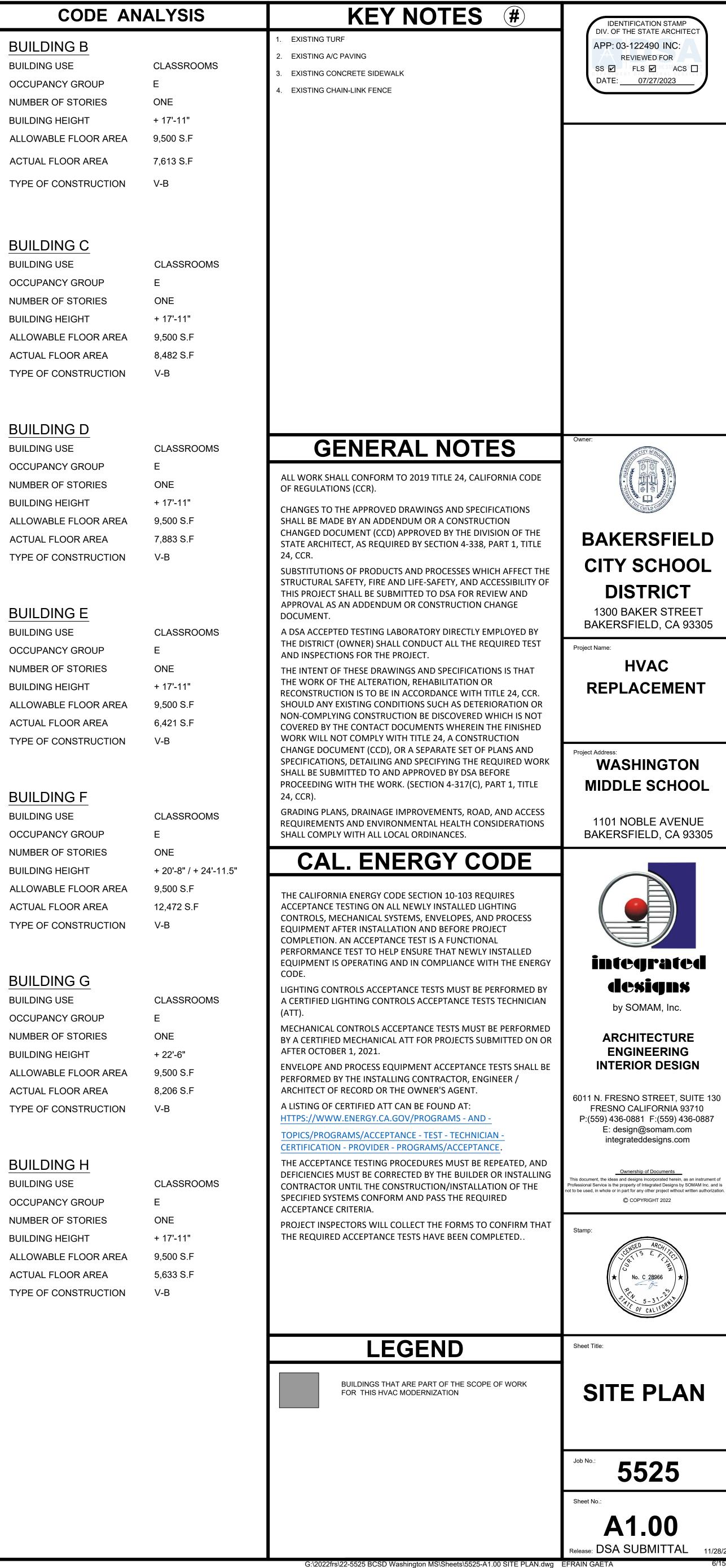
DIMENSION

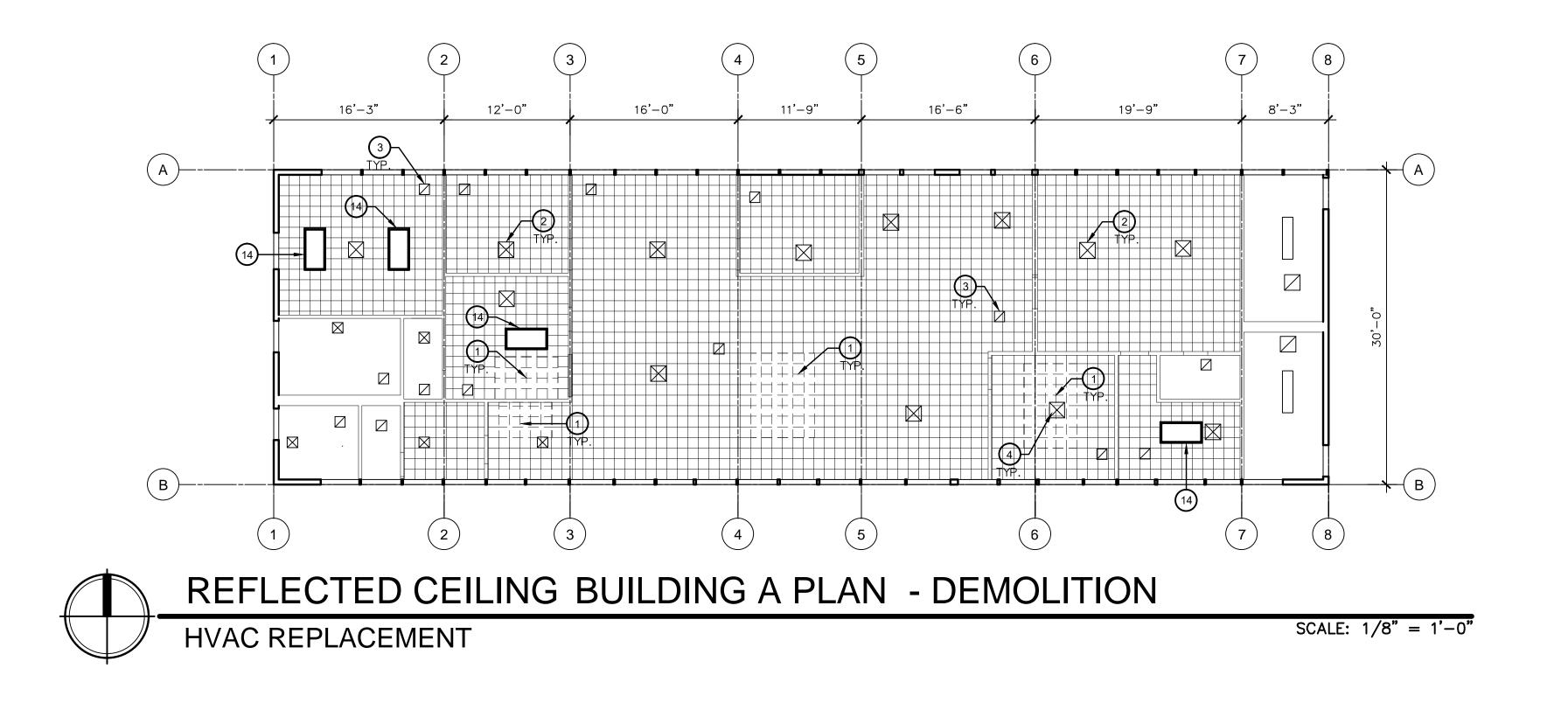
INSULATION

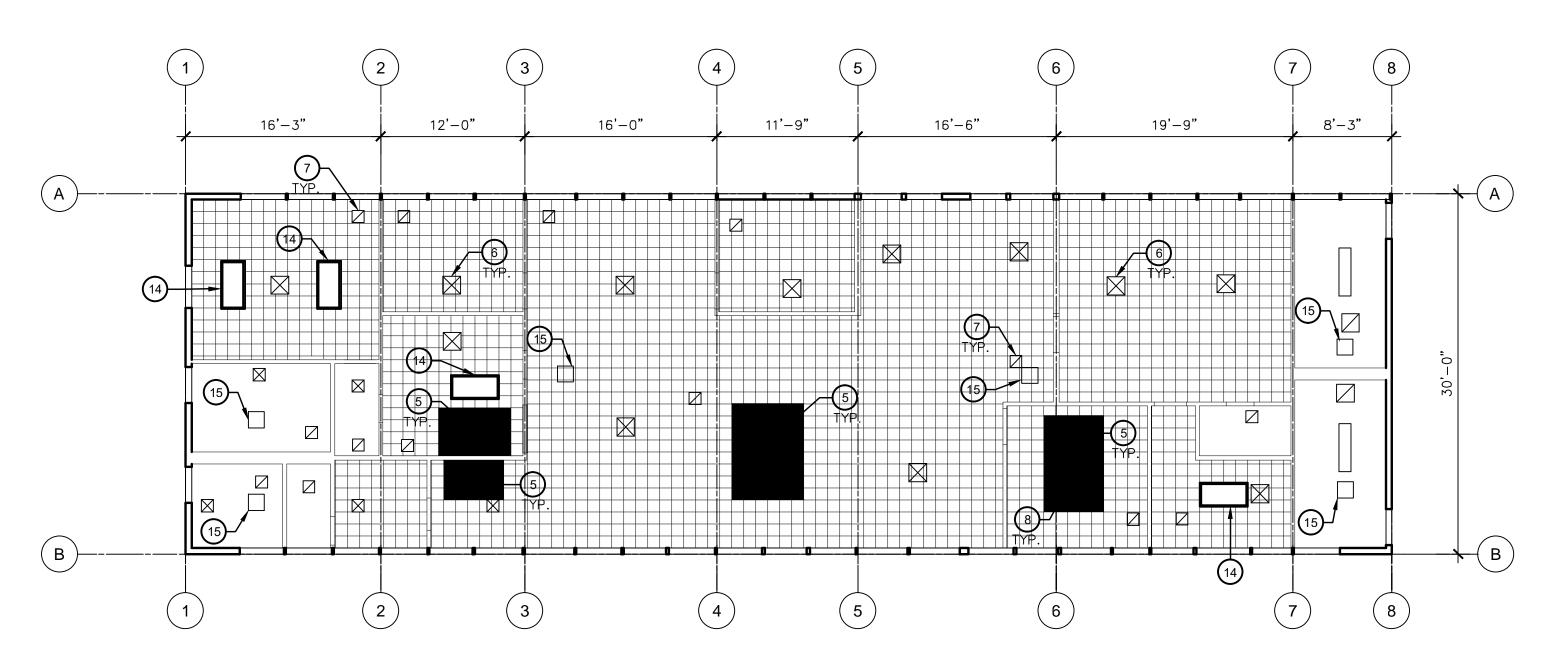
INTERIOR







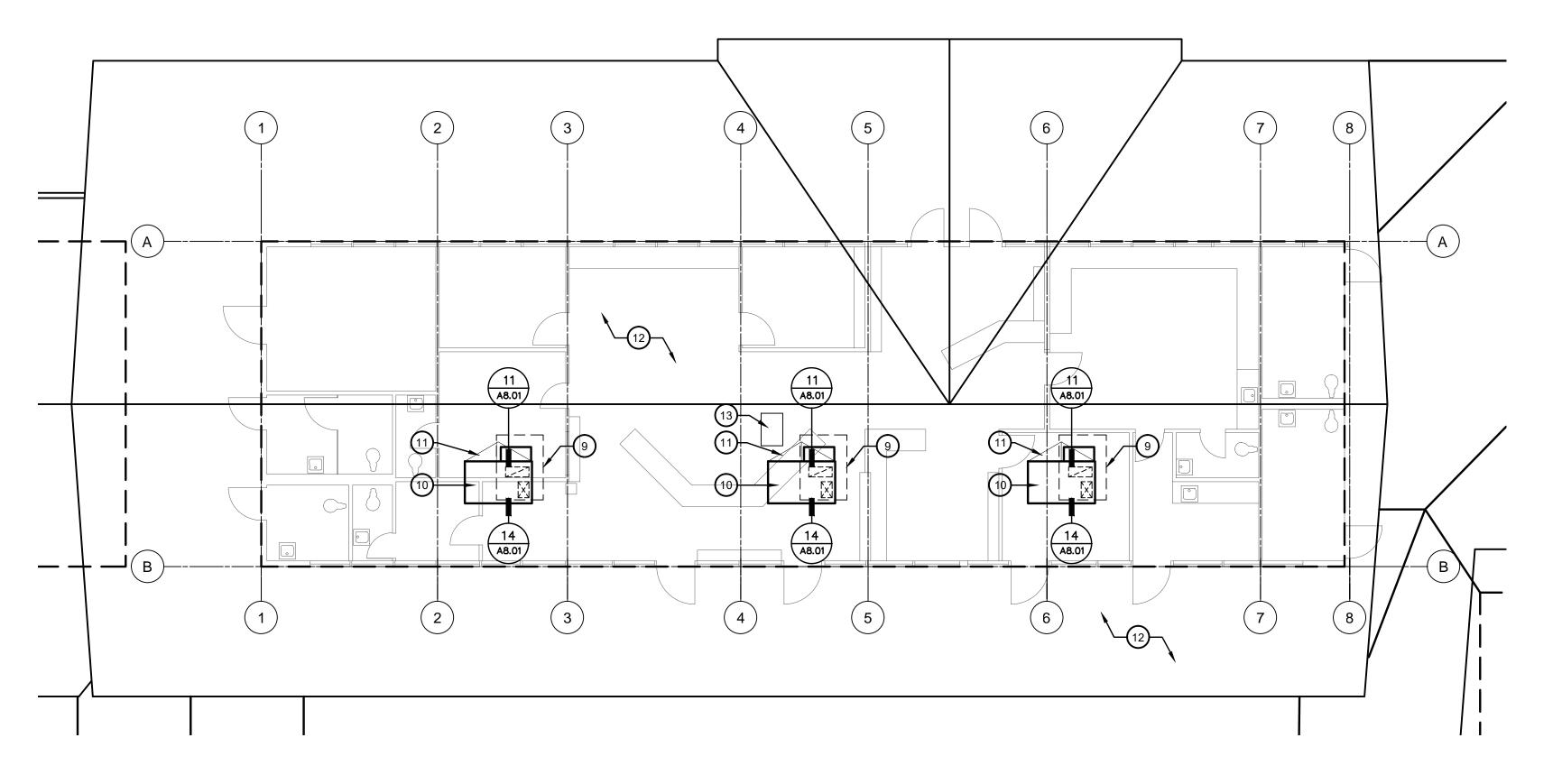




REFLECTED CEILING BUILDING A PLAN - IMPROVEMENT

HVAC REPLACEMENT

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



ROOF PLAN - BUILDING A PLAN - DEMOLITION AND IMPROVEMENT SCALE: 1/8" = 1'-0"HVAC REPLACEMENT

- REMOVE PORTION OF (E) GLUED-ON ACOUSTICAL TILES OVER (E) 1X3 STRIPPING @ 12" o.c. AS REQUIRE
- TO ALLOW INSTALLATION OF NEW WORK.
- (E) AIR SUPPLY GRILL TO REMAIN, TYPICAL.
- (E) AIR RETURN GRILL TO REMAIN, TYPICAL
- REMOVE (E) AIR SUPPLY GRILL AND SALVAGE FOR RELOCATION
- REPLACE ACOUSTICAL TILE CEILING AREA INCLUDING 1X3 STRIPPING @ 12" o.c. AND 2X3 STRIPPING @ 16" o TILE TO MATCH (E) TILE COLOR, PATTERN THICKNESS AND TEXTURE.
- TYPICAL (E) AIR SUPPLY GRILL
- TYPICAL (E) AIR RETURN GRILL
- REINSTALL SALVAGED (E) AIR SUPPLY GRILL
- (E) HEATING AND COOLING ROOFTOP UNIT TO BE
- . NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB - SEE MECHANICAL DRAWINGS FOR
- ADDITIONAL INFORMATION REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB -PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCI

AFFECTED ROOF AREA TO MATCH (E) ROOFING - SEE

- 2. (E) COMPOSITION SHINGLES ROOFING OVER 1" DIAGONAL SHEATHING ROOF DECKING.
- 13. (E) ROOF HATCH TO REMAIN.
- 14. (E) 2'x4' FLUORESCENT LIGHT FIXTURE TO REMAIN.
- . (N) 16"x16" CEILING ACCESS PANEL FOR HEAT DETECTORS. COORDINATE LOCATIONS WITH
- ELECTRICAL PLAN SHEET E3.12. CONTRACTOR SHALL VERIFY THERE ARE NO EXISTING ELEMENTS INTERFERING OR OBSTRUCTING ACCESS. NOTIFY TI ARCHITECT PROMPTLY IF THERE IS INTERFERENCE.

DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

IDENTIFICATION STAMP



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA. 93305

HVAC

REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



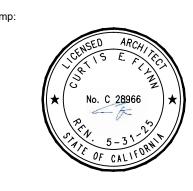
integrated designs

by SOMAM, Inc. ARCHITECTURE

ENGINEERING INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 130

FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com



BUILDING A PLAN

DEDUCTIVE BID ALTERNATE No. 5525 THE WORK ON THIS SHEET AND

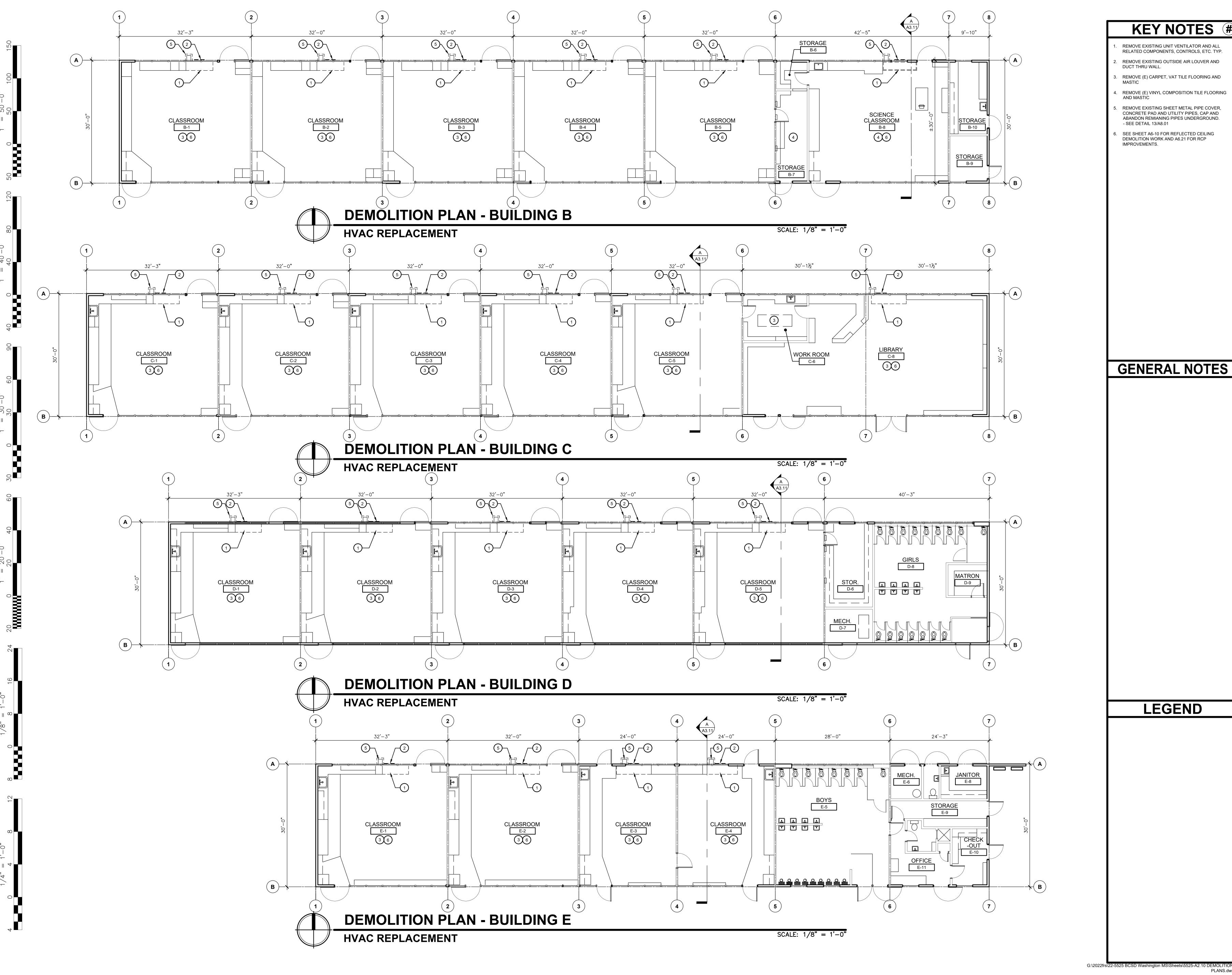
A2.00 Release: DSA SUBMITTAL 11/28/22

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-A2.00 FLOOR PLAN.dwg SEAN PARKER

S1.11, M2.11, E2.04, E2.12 AND

E3.12 ARE PARTS OF THIS BID

ALTERNATE



- IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

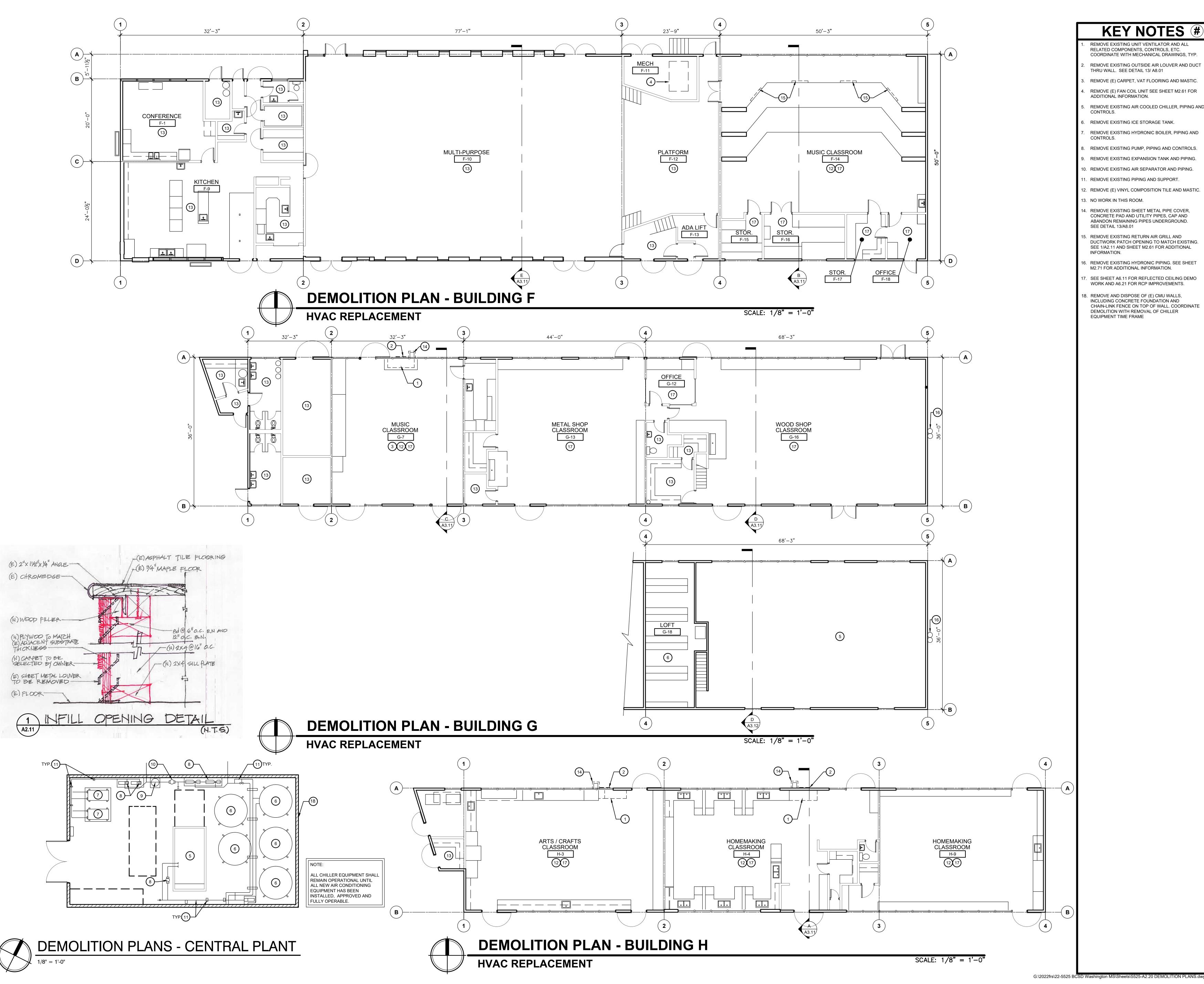
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com



DEMOLITION **PLANS** BLDG. B, C, D & E

5525

A2.10



REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, CONTROLS, ETC.

COORDINATE WITH MECHANICAL DRAWINGS, TYP.

REMOVE (E) CARPET, VAT FLOORING AND MASTIC.

REMOVE (E) FAN COIL UNIT SEE SHEET M2.61 FOR

ADDITIONAL INFORMATION.

REMOVE EXISTING ICE STORAGE TANK.

. REMOVE EXISTING EXPANSION TANK AND PIPING.

10. REMOVE EXISTING AIR SEPARATOR AND PIPING.

1. REMOVE EXISTING PIPING AND SUPPORT.

12. REMOVE (E) VINYL COMPOSITION TILE AND MASTIC.

CONCRETE PAD AND UTILITY PIPES, CAP AND ABANDON REMAINING PIPES UNDERGROUND.

DUCTWORK PATCH OPENING TO MATCH EXISTING. SEE 1/A2.11 AND SHEET M2.61 FOR ADDITIONAL

6. REMOVE EXISTING HYDRONIC PIPING. SEE SHEET M2.71 FOR ADDITIONAL INFORMATION.

SEE SHEET A6.11 FOR REFLECTED CEILING DEMO WORK AND A6.21 FOR RCP IMPROVEMENTS.

INCLUDING CONCRETE FOUNDATION AND CHAIN-LINK FENCE ON TOP OF WALL. COORDINATE DEMOLITION WITH REMOVAL OF CHILLER EQUIPMENT TIME FRAME

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆 DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

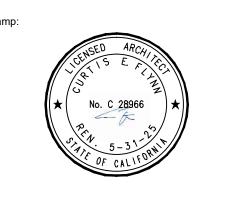


integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

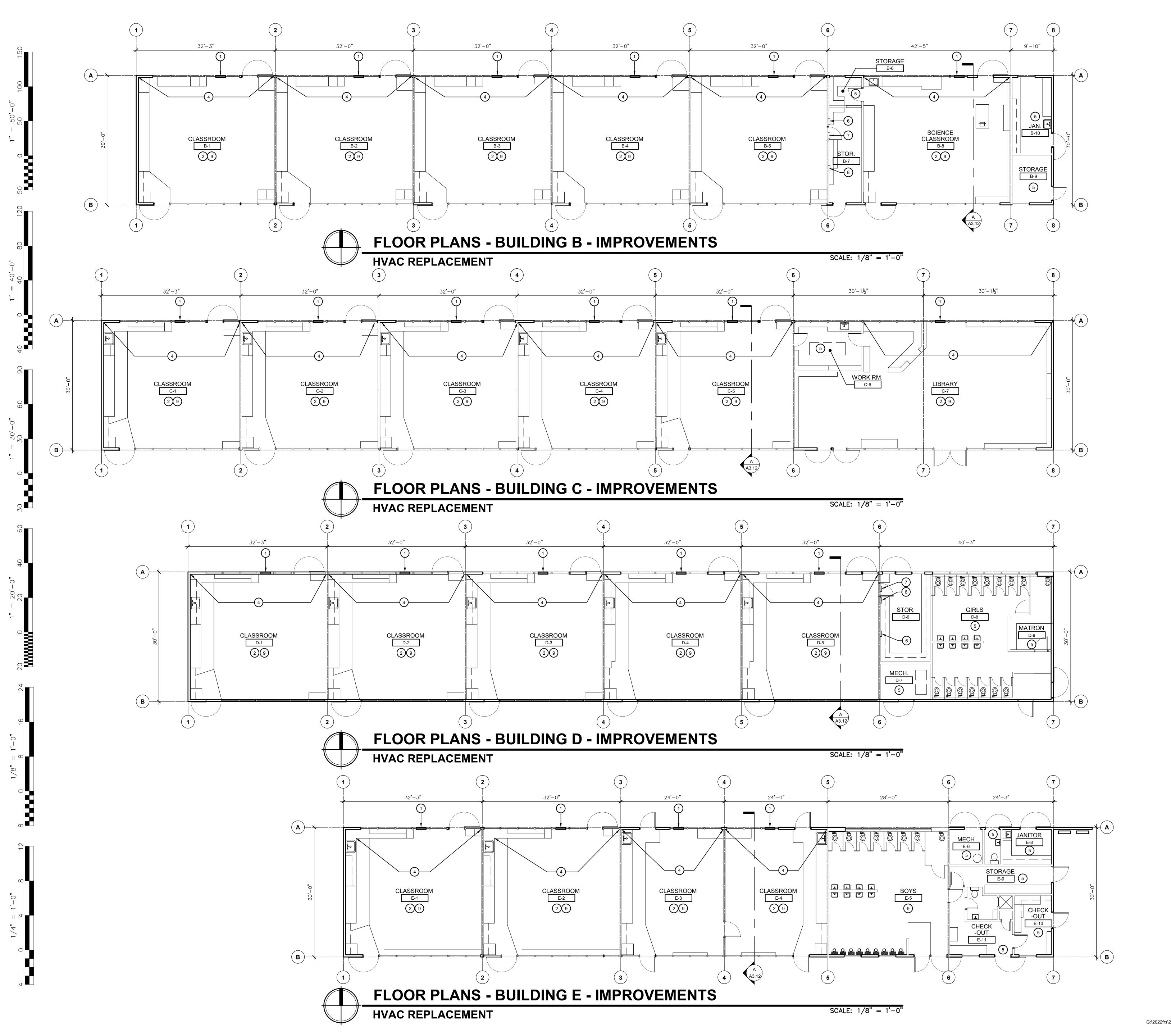


DEMOLITION **PLANS** BLDG. F, G & H

5525

A2.11 elease: DSA SUBMITTAL 11/28/22

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-A2.20 DEMOLITION PLANS.dwg EFRAIN GAETA



- INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER
 TO MATCH EXISTING ADJACENT COLOR AND TEXTURE
 ON THE OUTSIDE AND GYPSUM BOARD TO MATCH
 EXISTING ADJACENT THICKNESS, COLOR, AND TEXTURE
 ON THE INSIDE. PROVIDE R-19 BATT INSULATION. SEE
- 2. PROVIDE NEW CARPET AS PER SPECIFICATIONS -
- COLOR TO BE SELECTED BY OWNER

 INSTALL NEW CERAMIC TILE FLOORING SIZE AND COLOR TO BE SELECTED BY OWNER
- 4. PAINT WALL, WINDOW FRAME, COLUMN, DOOR FRAME
- AND DOOR COLOR TO BE SELECTED BY OWNER.

 NO WORK IN THIS ROOM
- NEW HVAC WIRELESS GATEWAY PROVIDE 120V SINGLE
- PHASE WALL OUTLET AND ETHERNET CONNECTION.

 WALL MOUNTED RETURN AIR GRILL ABOVE DOOR. SEE
- SHEET M2.21 FOR ADDITIONAL INFORMATION.

 8. WALL MOUNTED SUPPLY AIR GRILL. SEE SHEET M2.021
- FOR ADDITIONAL INFORMATION.
- 9. SEE SHEET A6.20 FOR NEW REFLECTED CEILING WORK.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET

BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated

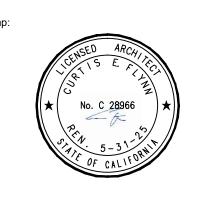
designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

document, the ideas and designs incorporated herein, as an instrumer sional Service is the property of Integrated Designs by SOMAM Inc. a e used, in whole or in part for any other project without written authorizing COPYRIGHT 2022



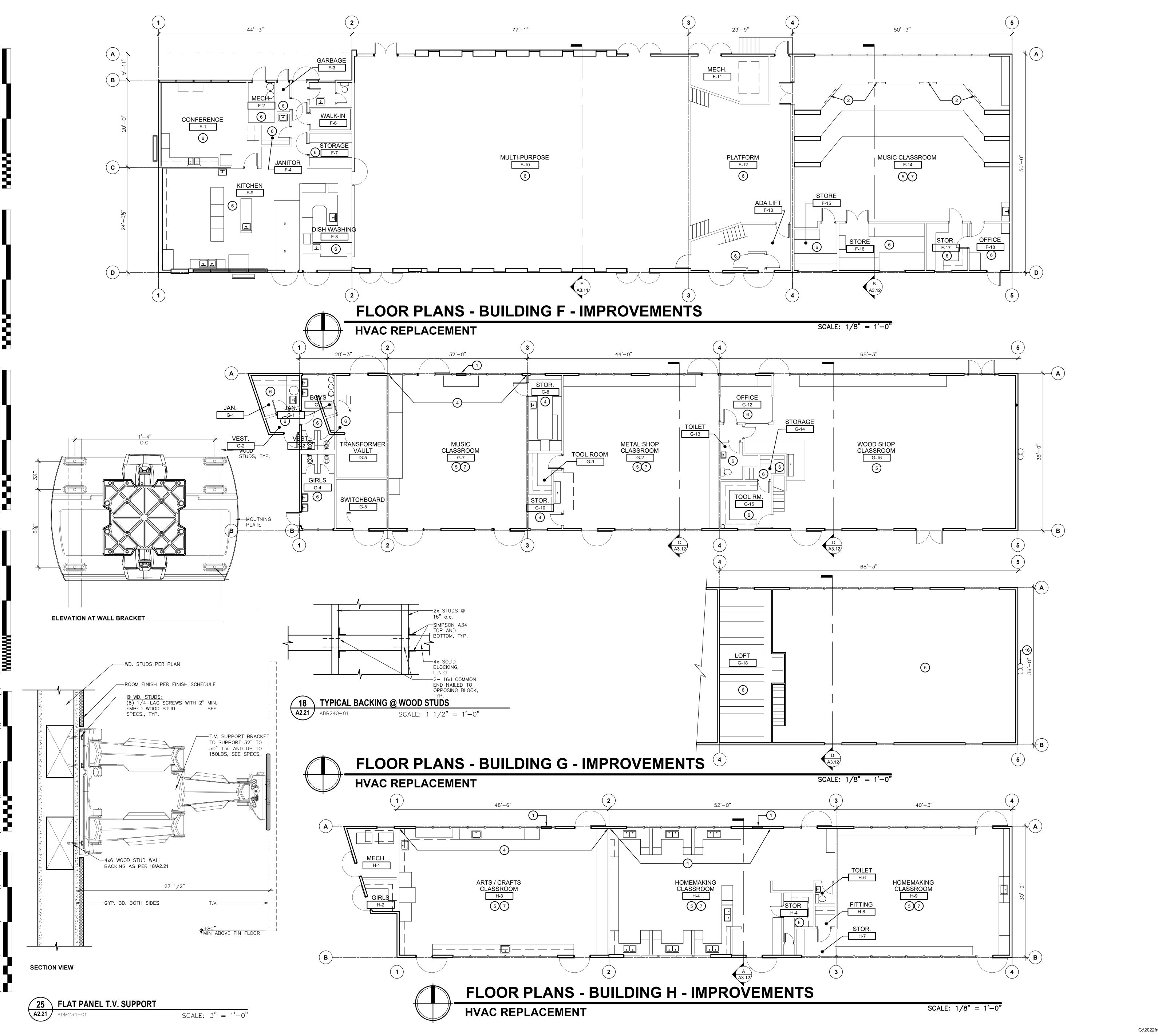
Sheet Title:

FLOOR
PLANS
BLDG. B, C, D & E

5525

et No.:

A2.20
elease: DSA SUBMITTAL 11/28/2



- INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER
 TO MATCH EXISTING ADJACENT COLOR & TEXTURE ON
 THE OUTSIDE & GYPSUM BOARD TO MATCH EXISTING
 ADJACENT THICKNESS, COLOR, & TEXTURE ON THE
- INSIDE. PROVIDE R-19 BATT INSULATION SEE 12/A8.10
 2. INFILL OPENING WITH WOOD STUDS, PLYWOOD AND CARPET TO MATCH EXISTING ADJACENT MATERIAL,

TEXTURE AND COLOR - SEE DETAIL 1/A2.11.

(NOT USED).

BE SELECTED BY OWNER.

- 4. PAINT WALL, WINDOW FRAME, COLUMN, DOOR FRAME AND DOOR COLOR TO BE SELECTED BY OWNER.
- SEE SHEET A6, 21 FOR REFLECTED CEILING NEW WORK
- PROVIDE NEW VCT AS PER SPECIFICATIONS COLOR TO





GENERAL NOTES

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

INTERIOR DESIGN

LEGEND

Ownership of Documents

is document, the ideas and designs incorporated herein, as an instrument of fessional Service is the property of Integrated Designs by SOMAM Inc. and it to be used, in whole or in part for any other project without written authorization.

essional Service is the property of integrated besigns by SOMAN Inc. and be used, in whole or in part for any other project without written authorizat

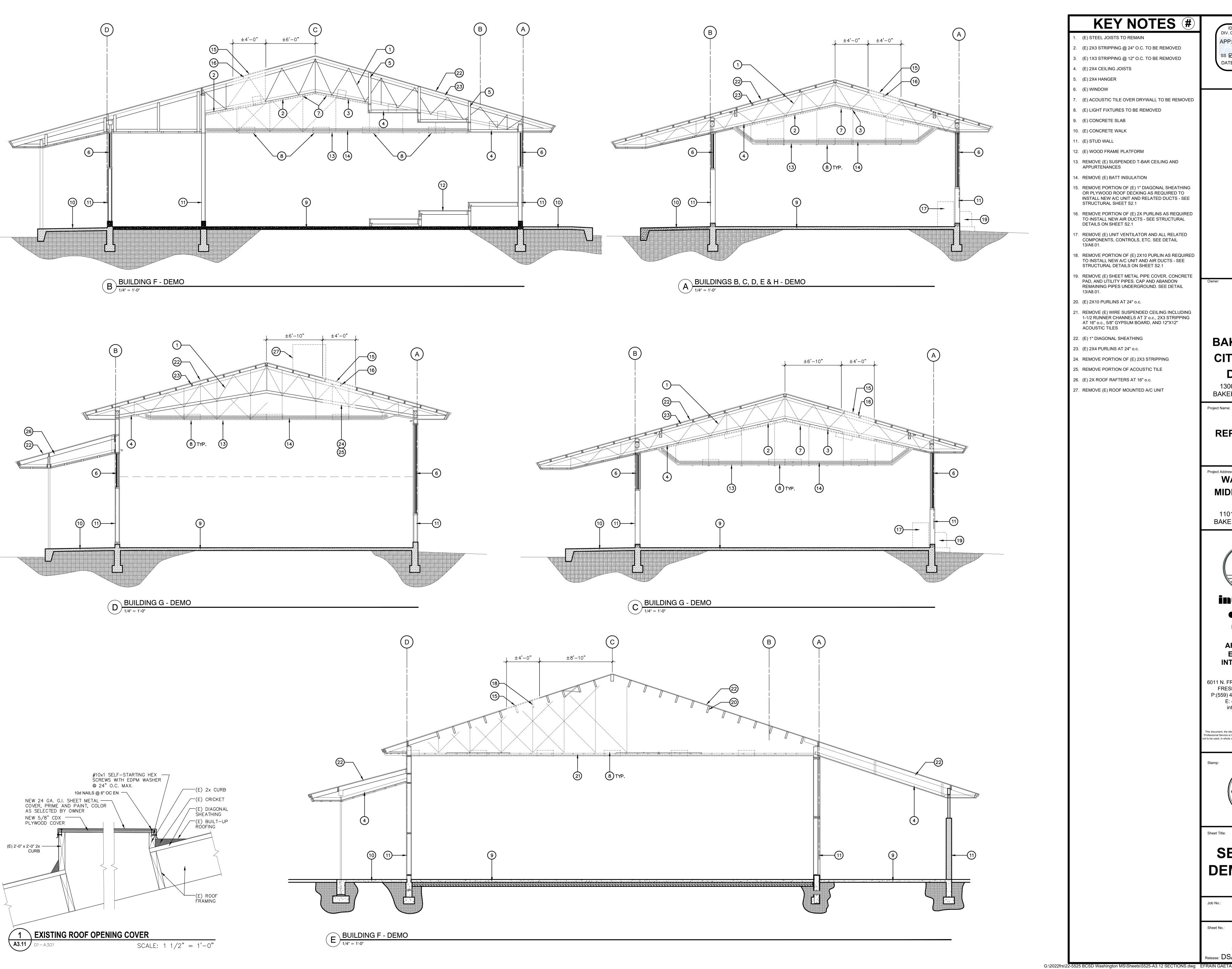


Sheet Title:

FLOOR
PLANS
BLDG. F, G & H

5525

A2.21



- (E) STEEL JOISTS TO REMAIN
- 2. (E) 2X3 STRIPPING @ 24" O.C. TO BE REMOVED
- 3. (E) 1X3 STRIPPING @ 12" O.C. TO BE REMOVED
- 4. (E) 2X4 CEILING JOISTS

9. (E) CONCRETE SLAB

- 5. (E) 2X4 HANGER
- 6. (E) WINDOW (E) ACOUSTIC TILE OVER DRYWALL TO BE REMOVED
- 8. (E) LIGHT FIXTURES TO BE REMOVED

12. (E) WOOD FRAME PLATFORM

- 10. (E) CONCRETE WALK
- 11. (E) STUD WALL
- 13. REMOVE (E) SUSPENDED T-BAR CEILING AND
- 14. REMOVE (E) BATT INSULATION

APPURTENANCES

- 5. REMOVE PORTION OF (E) 1" DIAGONAL SHEATHING OR PLYWOOD ROOF DECKING AS REQUIRED TO INSTALL NEW A/C UNIT AND RELATED DUCTS - SEE STRUCTURAL SHEET S2.1
- REMOVE PORTION OF (E) 2X PURLINS AS REQUIRED TO INSTALL NEW AIR DUCTS - SEE STRUCTURAL DETAILS ON SHEET S2.1
- REMOVE (E) UNIT VENTILATOR AND ALL RELATED COMPONENTS, CONTROLS, ETC. SEE DETAIL
- REMOVE PORTION OF (E) 2X10 PURLIN AS REQUIRED TO INSTALL NEW A/C UNIT AND AIR DUCTS - SEE STRUCTURAL DETAILS ON SHEET S2.1
- REMOVE (E) SHEET METAL PIPE COVER, CONCRETE PAD, AND UTILITY PIPES. CAP AND ABANDON REMAINING PIPES UNDERGROUND. SEE DETAIL
- 20. (E) 2X10 PURLINS AT 24" o.c.
- 1. REMOVE (E) WIRE SUSPENDED CEILING INCLUDING 1-1/2 RUNNER CHANNELS AT 3' o.c., 2X3 STRIPPING AT 16" o.c., 5/8" GYPSUM BOARD, AND 12"X12" ACOUSTIC TILES
- 22. (E) 1" DIAGONAL SHEATHING
- 23. (E) 2X4 PURLINS AT 24" o.c.
- 24. REMOVE PORTION OF (E) 2X3 STRIPPING
- 25. REMOVE PORTION OF ACOUSTIC TILE
- 26. (E) 2X ROOF RAFTERS AT 16" o.c.
- 27. REMOVE (E) ROOF MOUNTED A/C UNIT

DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

IDENTIFICATION STAMP



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET

BAKERSFIELD, CA. 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 É: design@somam.com integrateddesigns.com

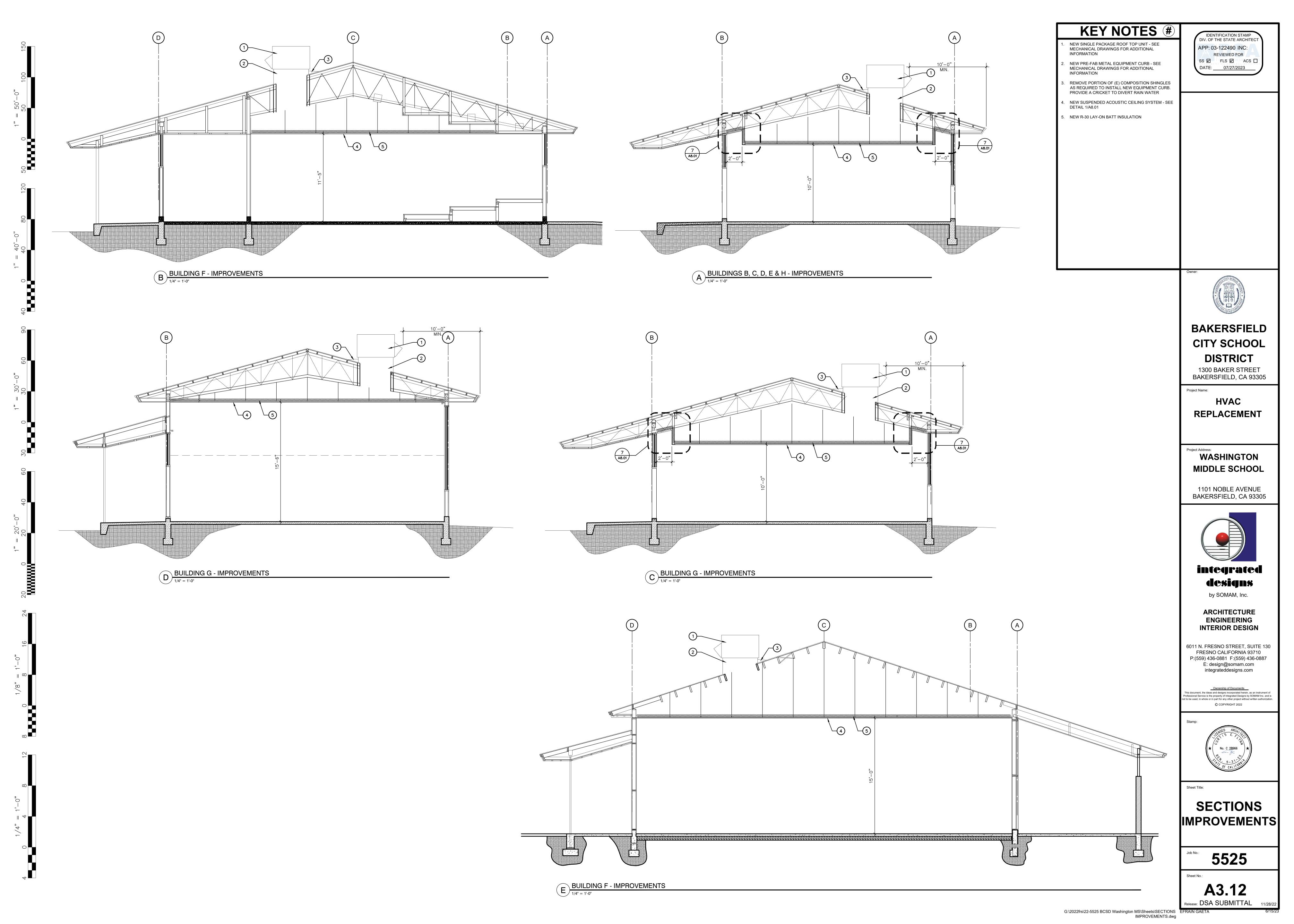
This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

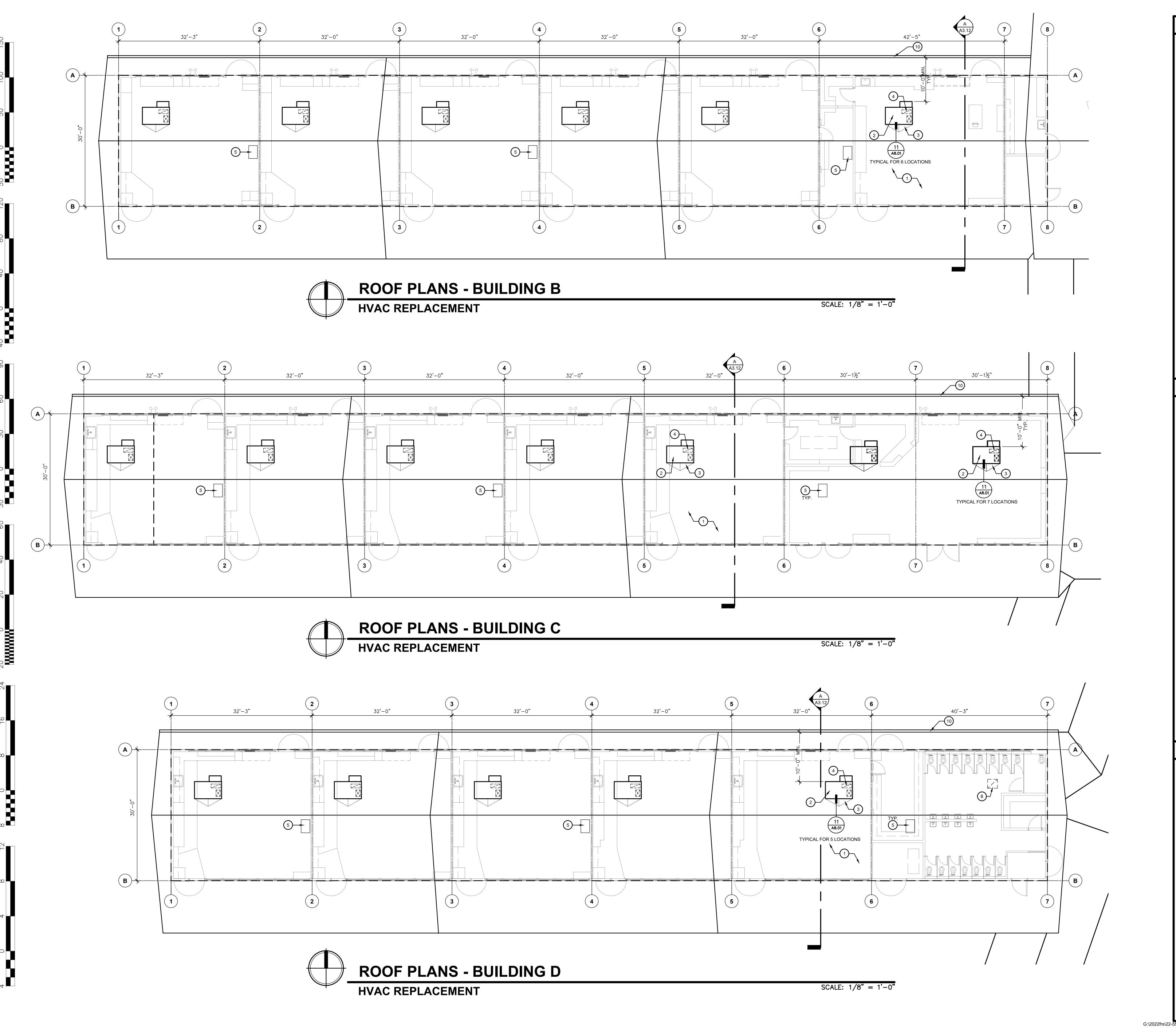


SECTIONS DEMOLITION

5525

A3.11 Release: DSA SUBMITTAL 11/28/22





- (E) COMPOSITION SHINGLES ROOFING OVER 1" DIAGONAL SHEATING ROOF DECKING.
- NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW
- EQUIPMENT CURB PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO MATCH (E) ROOFING - SEE DETAIL 14/A8.01 SAW CUT AND REMOVE PORTION OF (E) 1" DIAGONAL SHEATHING ROOF DECK AS REQUIRED
- TO INSTALL AIR DUCTS COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS SEE STRUCTURAL SHEET S2.1 FOR REINFORCING OF ROOF OPENINGS.
- 5. (E) ROOF HATCH TO REMAIN.
- 6. (NOT USED). 7. (NOT USED).
- 8. (E) EXHAUST FAN TO REMAIN.
- 9. (NOT USED).
- 10. (E) GUTTER TO REMAIN.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:



GENERAL NOTES

CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING.

CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION.

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE

BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

INTERIOR DESIGN

LEGEND



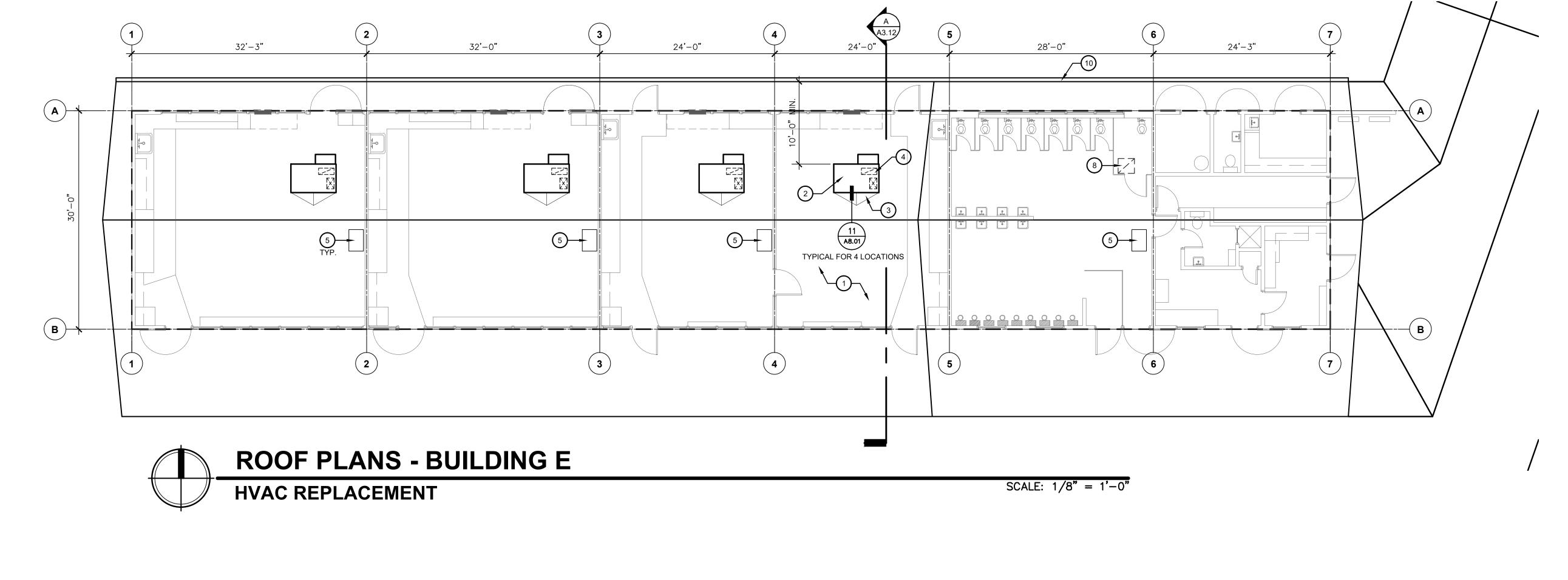


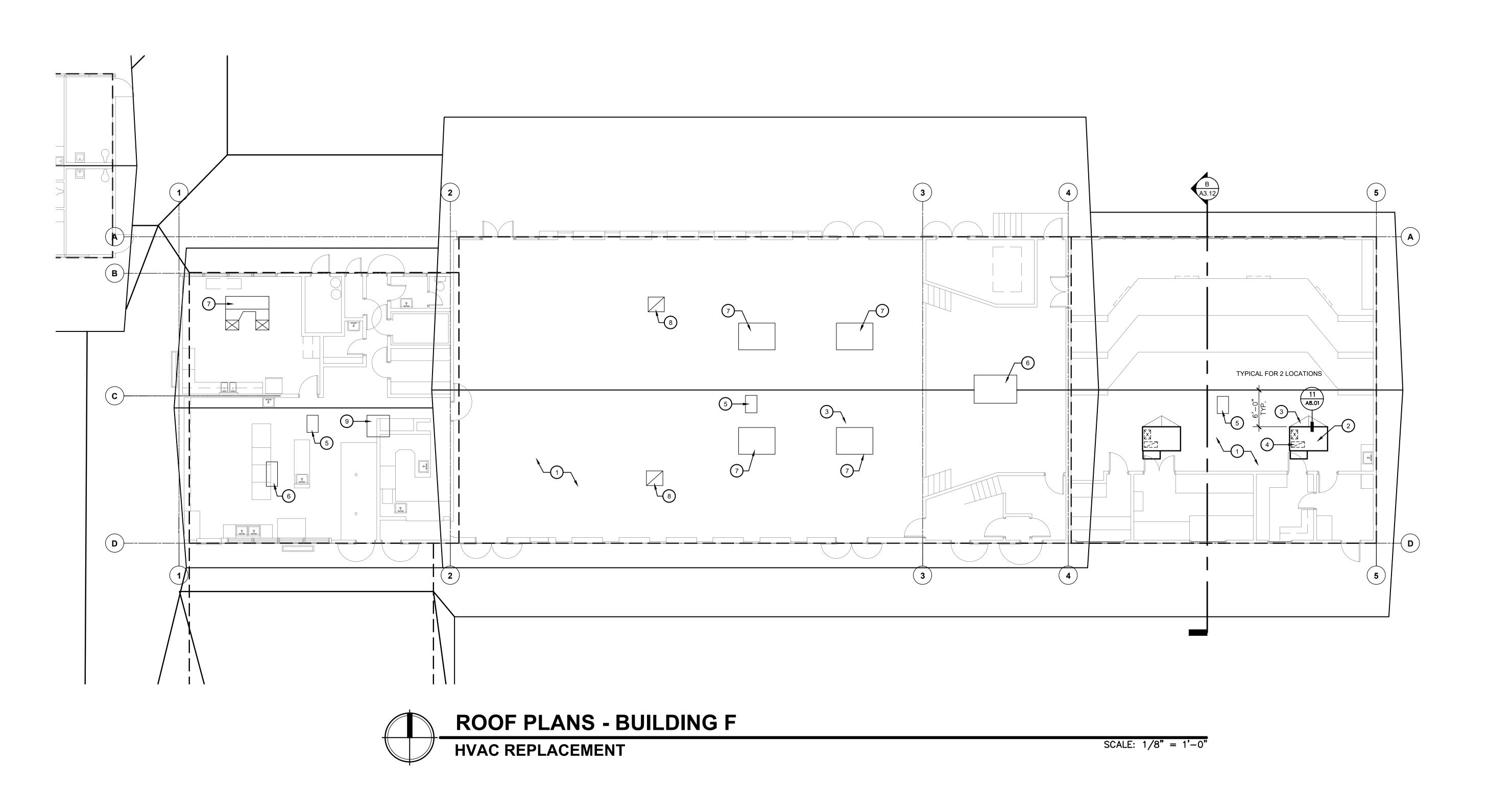
ROOF PLANS

BLDG. B, C & D

5525

A4.10





- (E) COMPOSITION SHINGLES ROOFING OVER 1" DIAGONAL SHEATING ROOF DECKING.
- NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF (E) COMPOSITION
- SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB - PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO MATCH (E) ROOFING. SAW CUT AND REMOVE PORTION OF (E) 1"
- DIAGONAL SHEATING ROOF DECK AS REQUIRED TO INSTALL AIR DUCTS COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS SEE STRUCTURAL DRAWINGS FOR REINFORCING OF ROOF OPENINGS.
- 5. (E) ROOF HATCH TO REMAIN.
- 6. (E) ATTIC VENT TO REMAIN.
- (E) HEATING AND COOLING ROOF TOP UNIT TO
- 8. (E) EXHAUST FAN TO REMAIN.
- 9. (E) EVAPORATIVE COOLER TO REMAIN.
- 10. (E) GUTTER TO REMAIN.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:

GENERAL NOTES

CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING.

CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION.

CITY SCHOOL **DISTRICT**

BAKERSFIELD

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 É: design@somam.com integrateddesigns.com

LEGEND



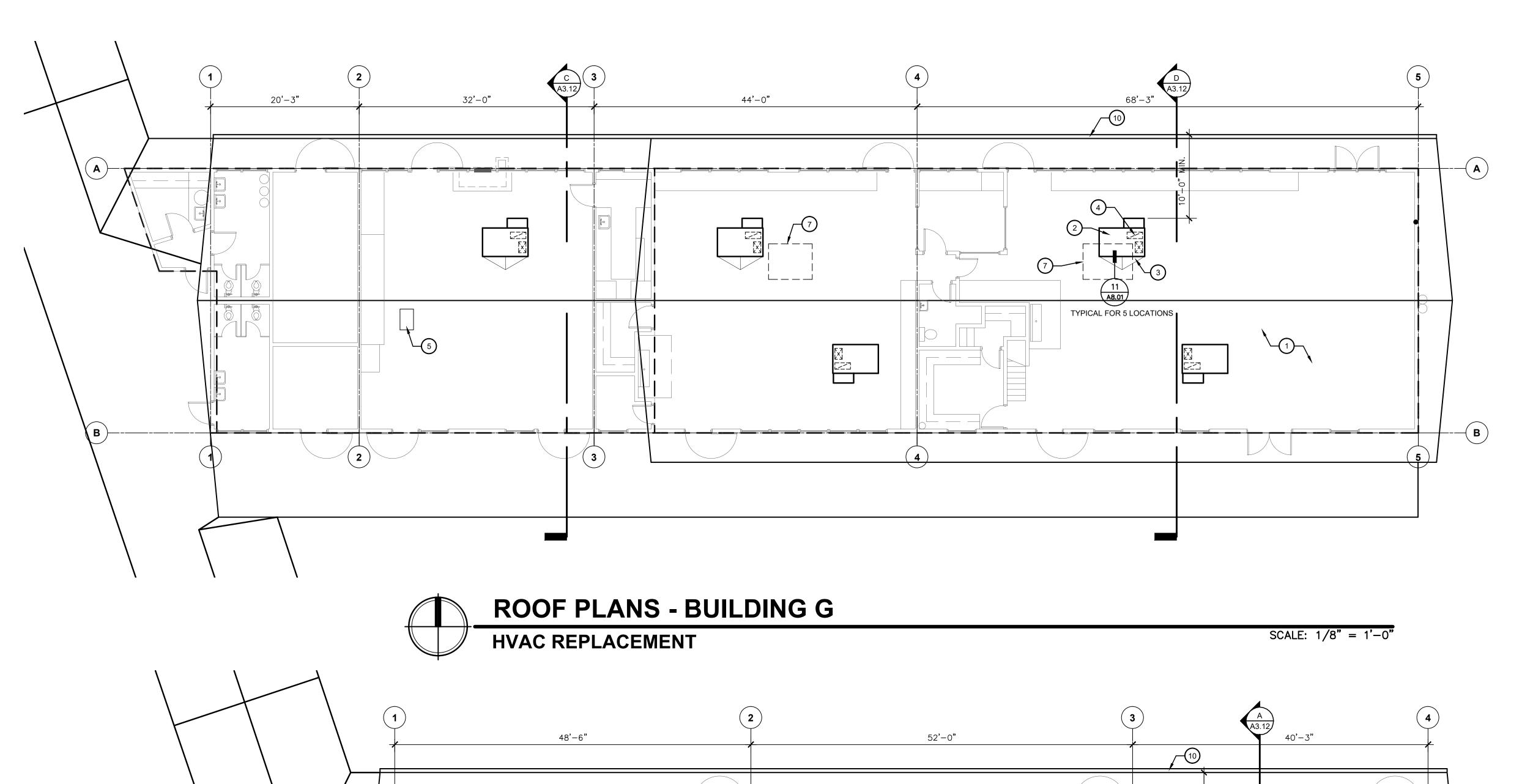
ROOF PLANS

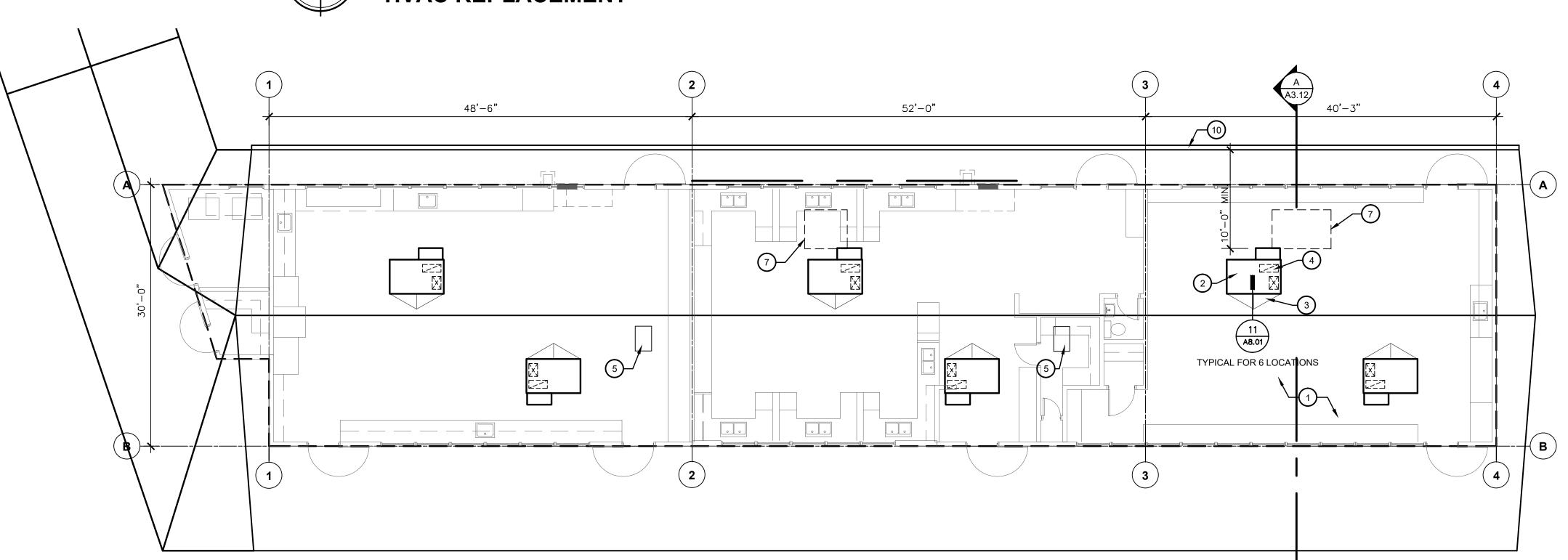
BLDG. E & F

5525

A4.20

telease: DSA SUBMITTAL 11/28/22







ROOF PLANS - BUILDING H

HVAC REPLACEMENT

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

KEY NOTES

- (E) COMPOSITION SHINGLES ROOFING OVER 1" DIAGONAL SHEATING ROOF DECKING.
- NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW
- EQUIPMENT CURB PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO MATCH (E) ROOFING. SAW CUT AND REMOVE PORTION OF (E) 1"
- DIAGONAL SHEATING ROOF DECK AS REQUIRED TO INSTALL AIR DUCTS COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS SEE STRUCTURAL DRAWINGS FOR REINFORCING OF ROOF OPENINGS.
- 5. (E) ROOF HATCH TO REMAIN.
- 6. (NOT USED)
- (E) HEATING AND COOLING ROOF TOP UNIT TO BE REMOVED INCLUDING STEEL FRAME SUPPORT. PATCH ROOF WITH SIMILAR ROOFING SYSTEM AND MATCHING COLOR, AS CLOSE AS POSSIBLE TO THE EXISTING ROOF COLOR. COVER (E) DUCT OPENING AS PER DETAIL 1/A3.11.
- 8. (NOT USED) 9. (NOT USED)
- 10. (E) GUTTER TO REMAIN.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR

SS ☑ FLS ☑ ACS □

APP: 03-122490 INC:

GENERAL NOTES

CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING.

CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION.

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 É: design@somam.com integrateddesigns.com

LEGEND

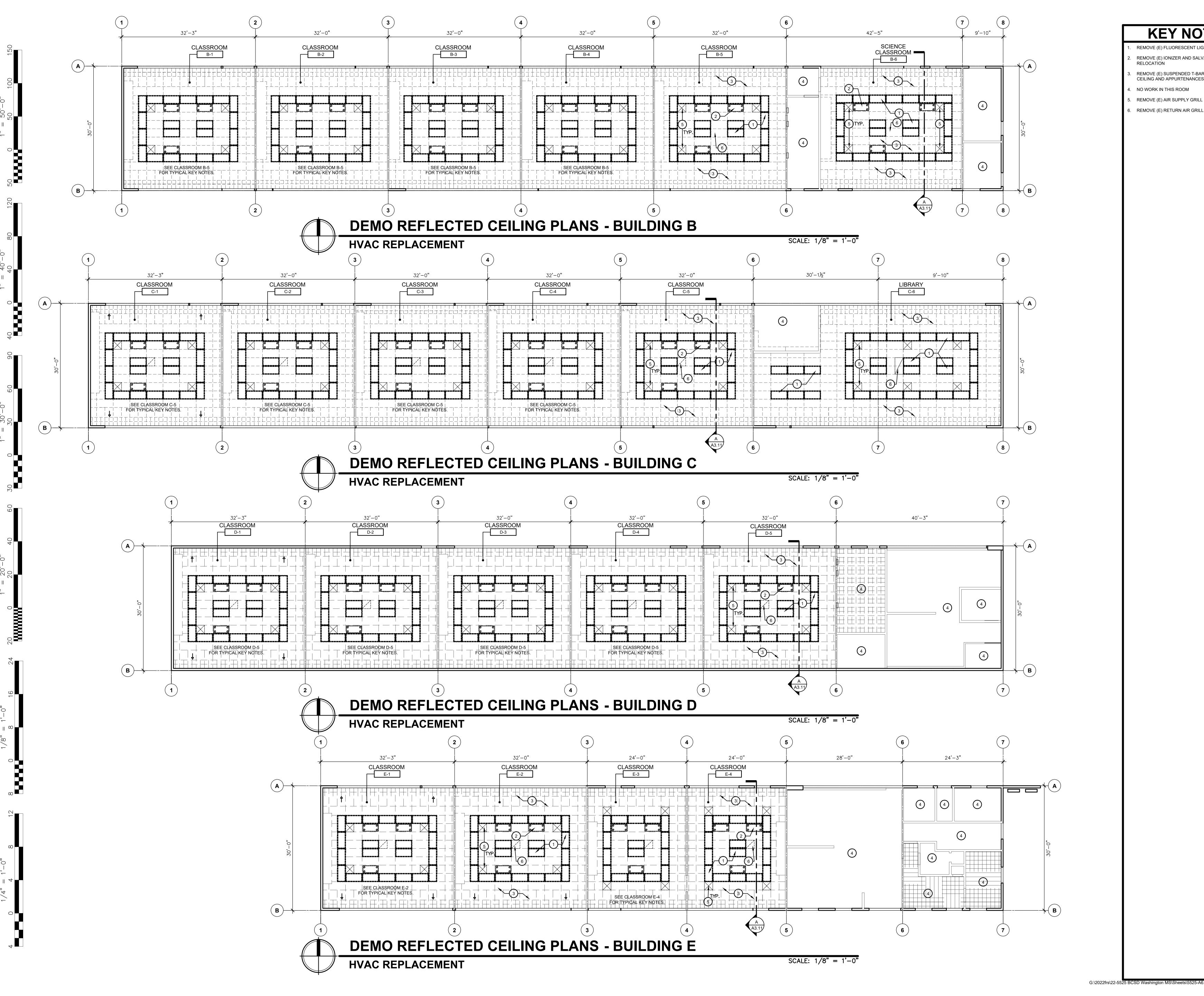


ROOF PLANS

BLDG. G & H

5525

A4.30



- REMOVE (E) FLUORESCENT LIGHT FIXTURES
- REMOVE (E) IONIZER AND SALVAGE FOR
- REMOVE (E) SUSPENDED T-BAR ACOUSTICAL
- CEILING AND APPURTENANCES

RELOCATION

- NO WORK IN THIS ROOM
- REMOVE (E) AIR SUPPLY GRILL

IDENTIFICATION STAMP APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

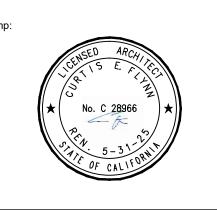


integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-088 E: design@somam.com integrateddesigns.com

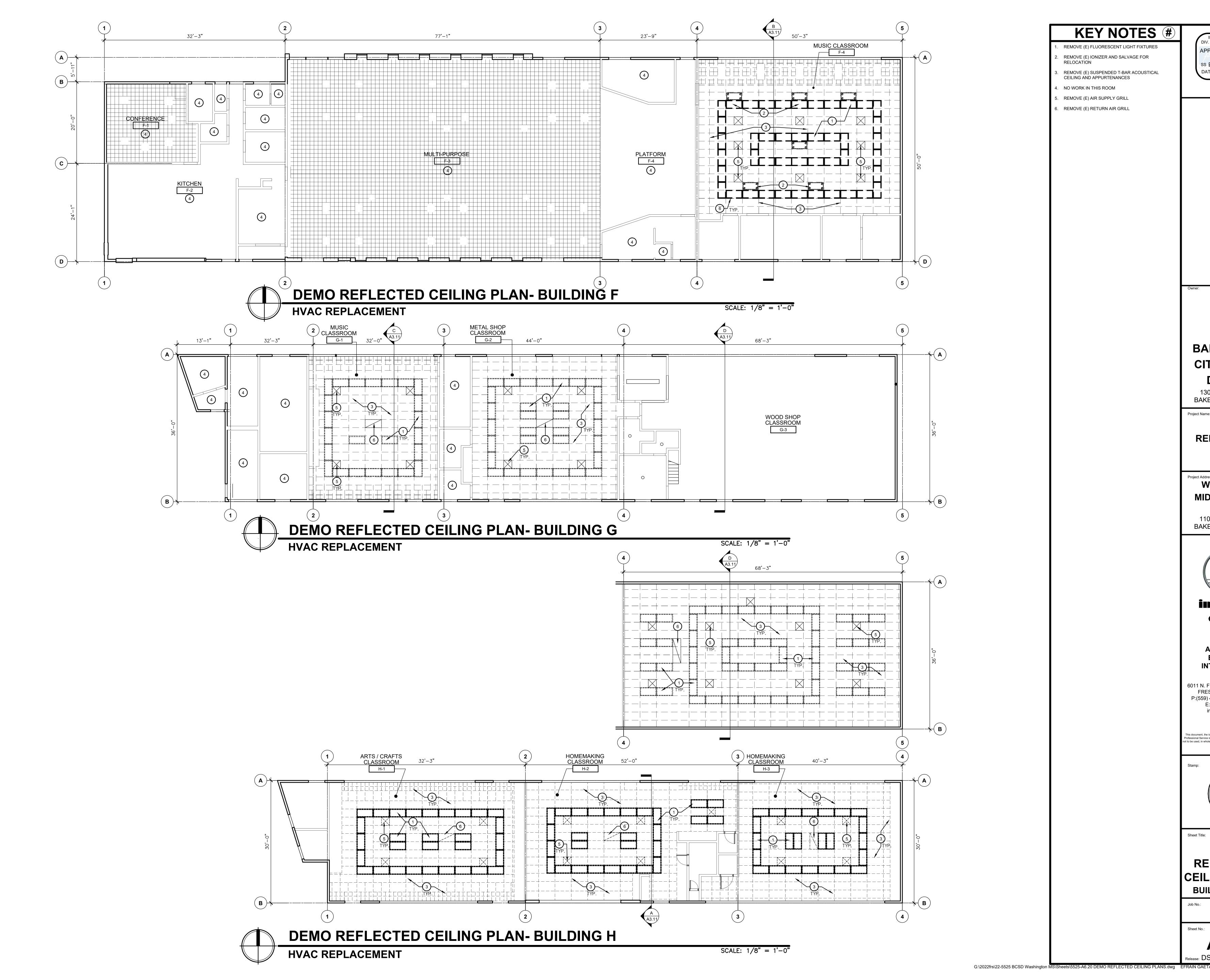


1.10 DEMO REFLECTED EFRAIN GAETA CEILING PLANS.dwg

DEMO REFLECTED **CEILING PLANS BUILDINGS B,C,D & E**

5525

A6.10



- REMOVE (E) FLUORESCENT LIGHT FIXTURES
- REMOVE (E) IONIZER AND SALVAGE FOR
- RELOCATION REMOVE (E) SUSPENDED T-BAR ACOUSTICAL CEILING AND APPURTENANCES

6. REMOVE (E) RETURN AIR GRILL

- 4. NO WORK IN THIS ROOM
- 5. REMOVE (E) AIR SUPPLY GRILL

IDENTIFICATION STAMP APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

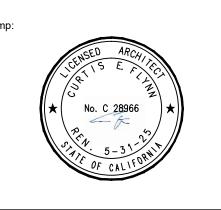


integrated

designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

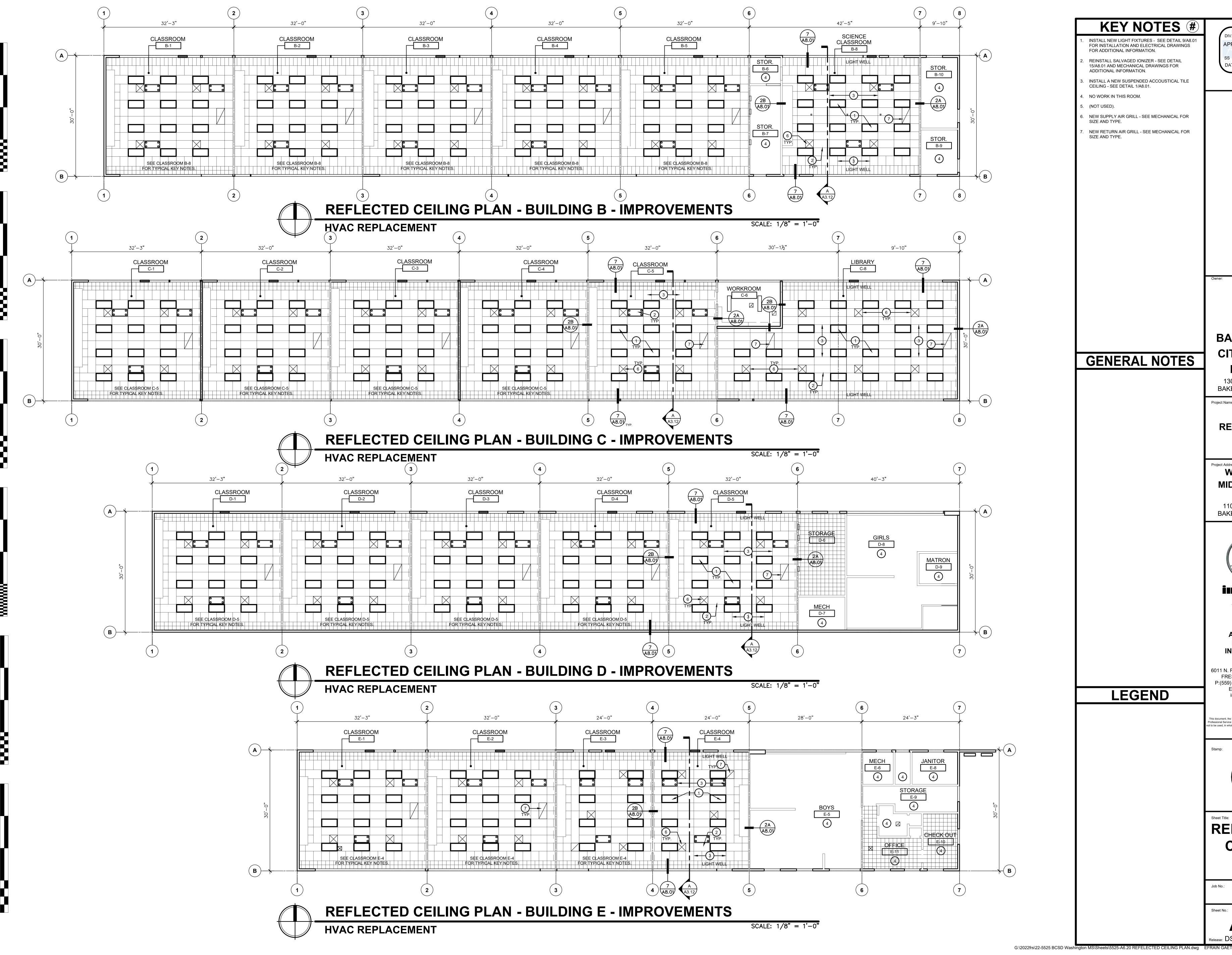
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com



DEMO REFLECTED **CEILING PLANS BUILDINGS F,G & H**

5525

A6.11



DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 07/27/2023

IDENTIFICATION STAMP



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated

designs

by SOMAM, Inc.

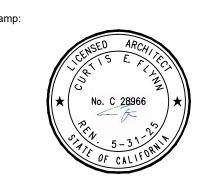
ARCHITECTURE ENGINEERING

INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 13 FRESNO CALIFORNIA 93710

E: design@somam.com

integrateddesigns.com

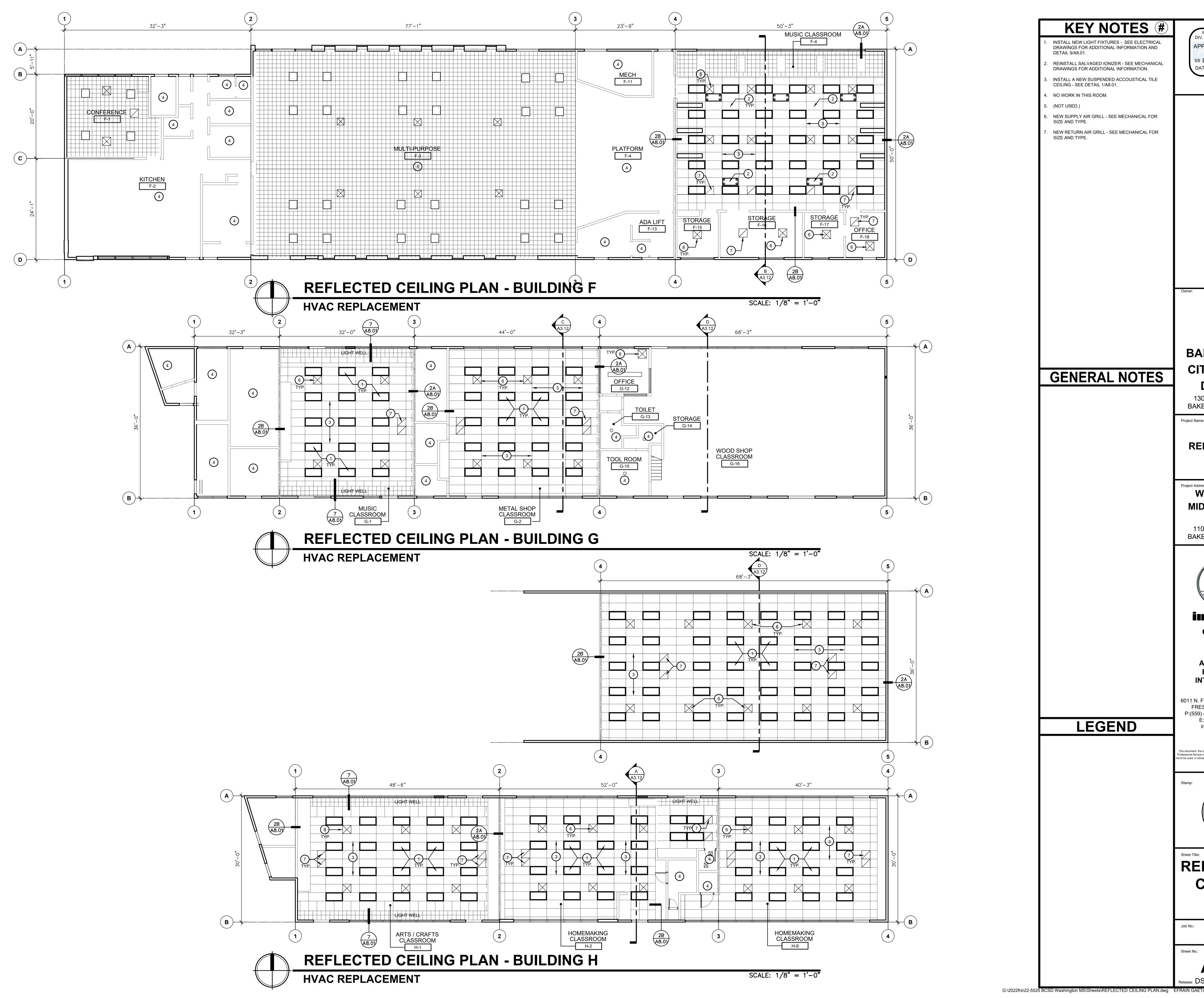
essional Service is the property of Integrated Designs by SOMAM Inc. and is



REFLECTED **CEILING PLAN**

5525

A6.20



INSTALL A NEW SUSPENDED ACCOUSTICAL TILE CEILING - SEE DETAIL 1/A8.01.

NEW SUPPLY AIR GRILL - SEE MECHANICAL FOR

NEW RETURN AIR GRILL - SEE MECHANICAL FOR

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

GENERAL NOTES

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

INTERIOR DESIGN

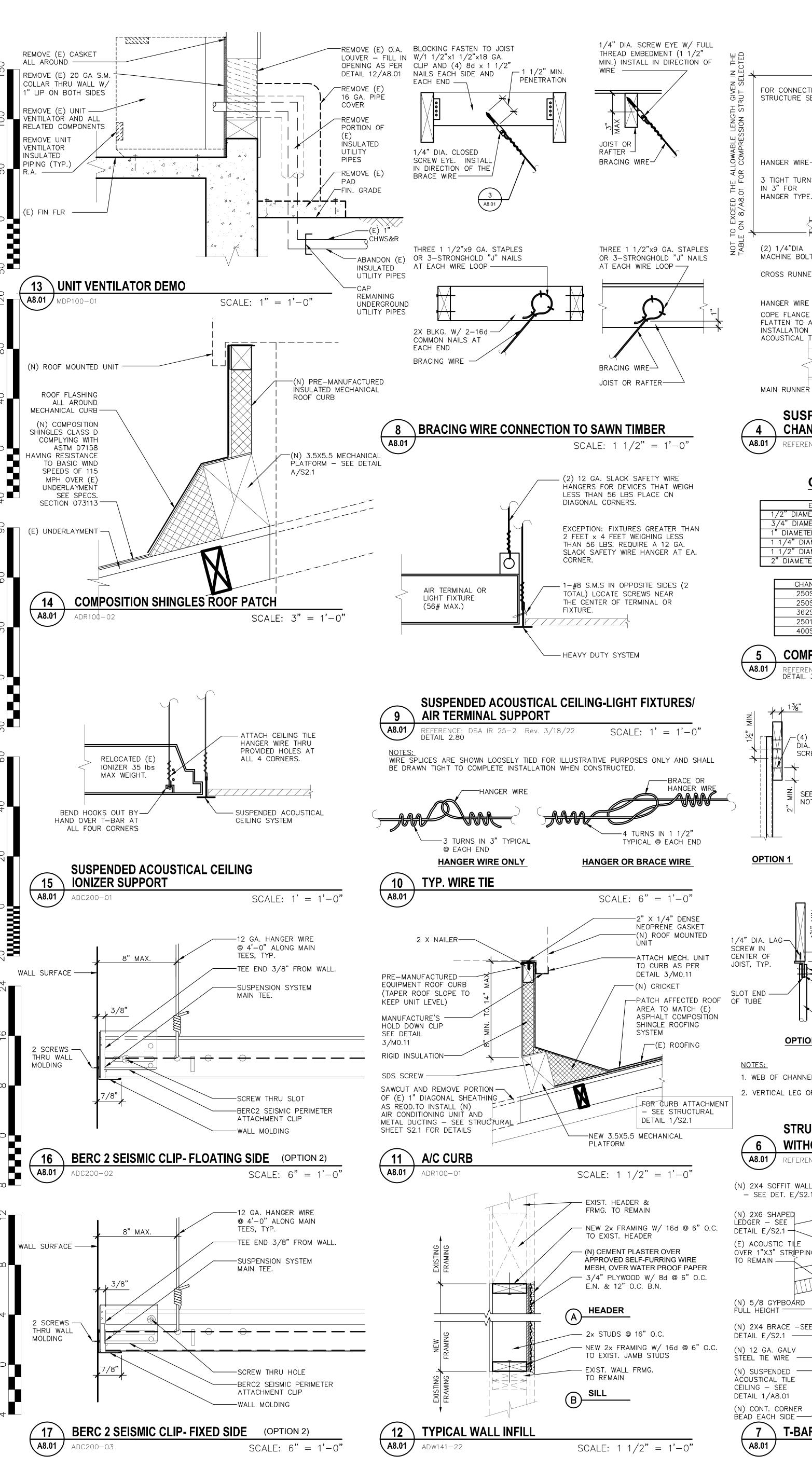
integrateddesigns.com

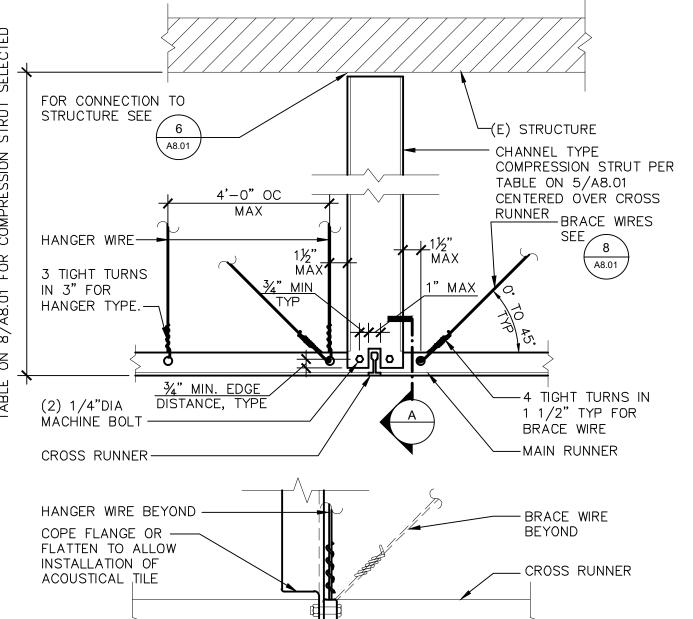


REFLECTED **CEILING PLAN**

5525

A6.21





SUSPENDED ACOUSTICAL CEILING -

CHANNEL TYPE STRUT REFERENCE: DSA IR 25-2 Rev. 3/18/22 SCALE: 1 1/2" = 1'-0"

A SECTION

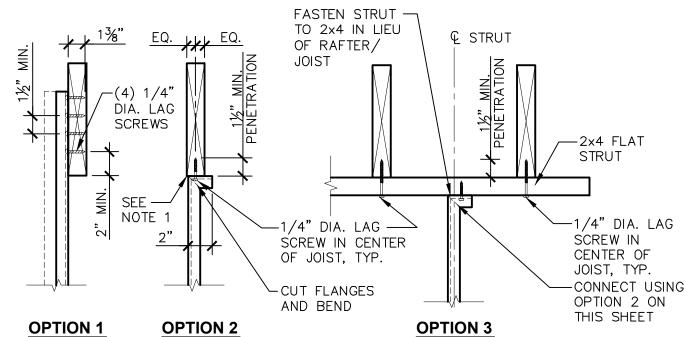
COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	5'-10"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	7'-8"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

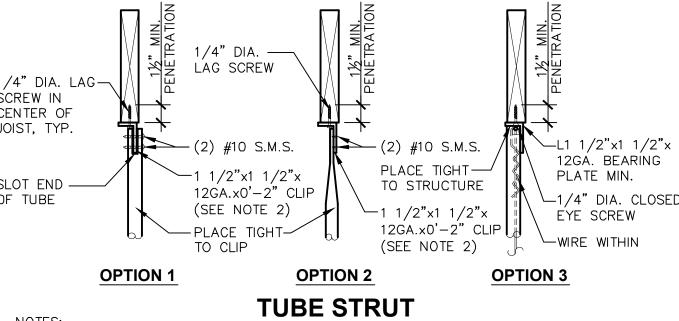
CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

SCALE: 6" = 1'-0"

COMPRESSION STRUT TABLE REFERENCE: DSA IR 25-2 Rev. 3/18/22

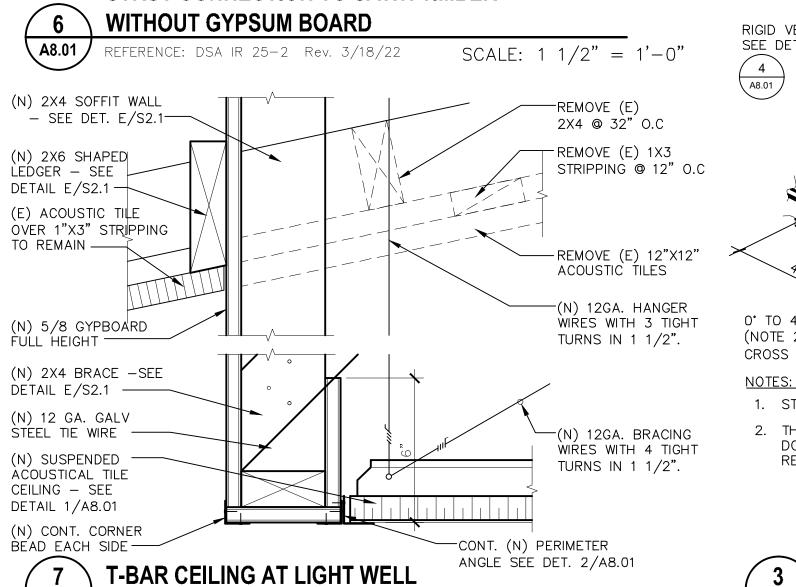


CHANNEL STRUT

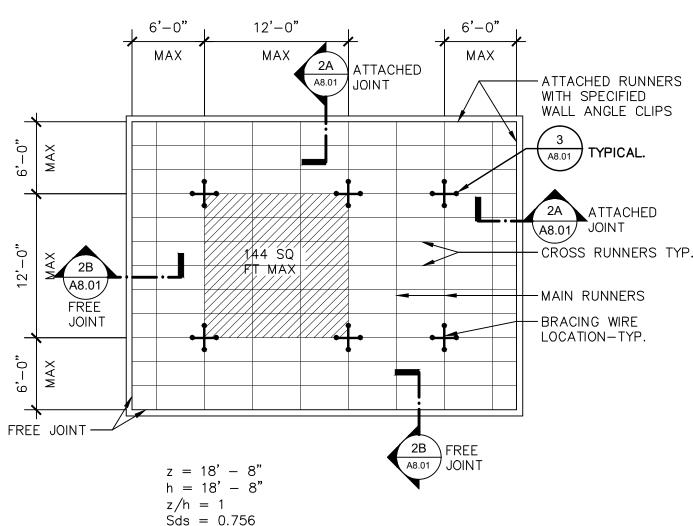


1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER. 2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.

STRUT CONNECTION TO SAWN TIMBER



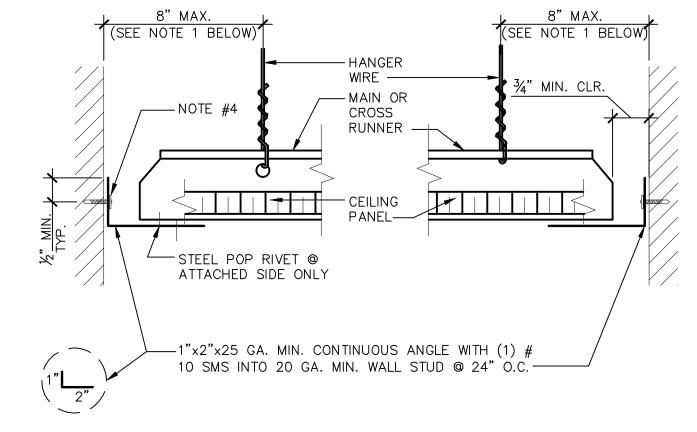
SCALE: 3" = 1'-0"



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

TYPICAL CEILING PLAN FOR 12'-0" x 12'-0" Brace Assembly Spacing

EFERENCE: DSA IR 25 - 2 Rev. 3/18/22 SCALE: 1/8" = 1'-0"



(A) ATTACHED JOINT

(B) FREE JOINT

- CHANNEL

(STABILIZER BAR)_

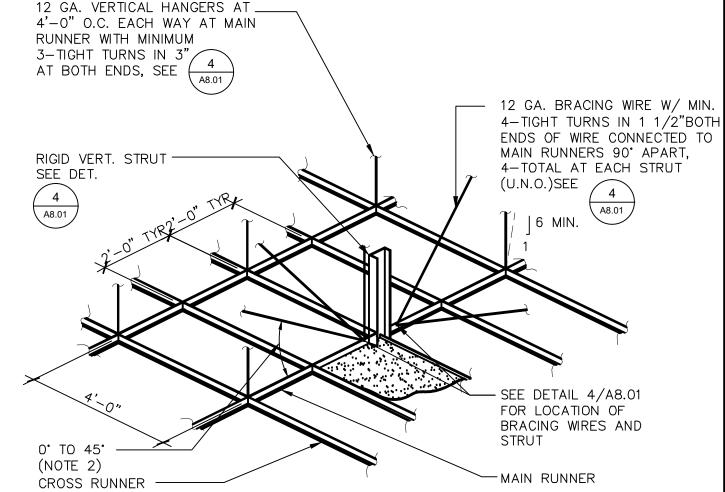
1. PROVIDE #12 GAGE HANGER WIRES AT THE END OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE LENGTH OF THE END TEE. WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.

- RUNNER APPROVED STABILIZER 6. LUMINAIRES 3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.

4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24"

CEILING PERIMETER (OPTION 1) SCALE: 6" = 1'-0"



1. STRUTS SHALL NOT REPLACE HANGER WIRES.

2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

SUSPENDED CEILING - SUSPENSION AND BRACING ASSEMBLY REFERENCE: DSA IR 25-2 Rev. 3/18/22 DETAIL 2.35 SCALE: 3/8" = 1'-0" **CEILING SYSTEM GENERAL NOTES**

DSA IR 25-2 Revised 03/18/22 Under CBC 2019 SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

1. CEILING SYSTEM GENERAL NOTES

- 1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
- 1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
- 1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer: ARMSTRONG WORLD INDUSTRIES Product Name: Acoustical Panel Ceiling Evaluation Report Type and Number: ESK 1308 Main Runner Part, Model, or Catalog Number: 7301

Cross Runner Part, Model, Catalog Number: ML 73 43

1.04 Seismic Wall Clip: Manufacturer's Model: BERC 2. See Details 16 & 17/A8.01.

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

- 2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
- 03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

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

wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

- 4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
- 4.02 Expansion anchors shall be: HILTI KWIK TZ-2 (ICC-ES ESR-4266)
- 4.03 Power-Actuated Fasteners shall be: HILTI X-DNI 42 P8 / ICC-ES ESR-2269.
- 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
- 4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
- 1.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior
- to installing post-installed anchors. 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

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

3.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.

- 6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14-gauge. Rotational spring catches do not comply. A #12-gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
- 3.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners shall have a minimum of one #12-gauge slack safety wire connected from the fixture housing to the
- 6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12-gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12-gauge slack safety wire at each corner.

5.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12-gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12-gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the

. SERVICES WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have

- one #12-gauge slack safety wire attached from the terminal or service to the structure above. 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20
- pounds but less than or equal to 56 pounds shall have two #12-gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- 7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12-gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

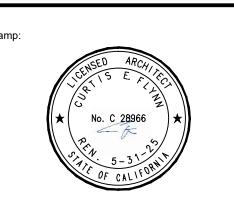
> by SOMAM, Inc. ARCHITECTURE

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

ENGINEERING

INTERIOR DESIGN

document, the ideas and designs incorporated herein, as an instrument essional Service is the property of Integrated Designs by SOMAM Inc. and is be used, in whole or in part for any other project without written authoriza © COPYRIGHT 2022



INTERIOR DETAILS

5525

Sheet No.: A8.01

ease: DSA SUBMITTAL

TESTING AND SPECIAL INSPECTION

GENERAL

INSPECTOR UNLESS NOTED AS "IOR".

CODE (CBC) SEC. 4-333(c), AND SEC. 1704A.

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR AND PROJECT INSPECTOR [IOR] DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK. THE INSPECTIONS NOTED BELOW SHALL BE PERFORMED BY THE SPECIAL

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE

SECTION (SSS). PROCEDURAL AND ACCEPTANCE CRITERIA ARE SET FORTH IN THE 2019 CALIFORNIA BUILDING

SATISFACTION OF THE DIVISION OF THE STATE ARCHITECT, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. TESTING AND INSPECTIONS WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY SELECTED AND EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA). QUALIFICATION OF A TESTING AGENCY OR LABORATORY WILL BE UNDER THE JURISDICTION OF THE DSA STRUCTURAL SAFETY

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWINGS AND SPECIFICATIONS. MATERIAL REQUIRED TO BE TESTED WILL BE SELECTED BY THE TESTING LAB OR THE DISTRICT'S PROJECT.

INSPECTOR AND NOT BY THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE DIVISION OF THE STATE ARCHITECT THE DISTRICT OR DISTRICT'S DESIGNATED REPRESENTATIVE, THE ARCHITECT OR PROJECT MANAGER, THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR AND OTHER PERSONS DESIGNATED BY THE DISTRICT OR DISTRICT'S REPRESENTATIVE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL. TEST REPORTS SHALL BE SIGNED BY A REGISTERED CIVIL ENGINEER LICENSED IN THE

STATE OF CALIFORNIA. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED VERIFIED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.

THE DISTRICT MUST PROVIDE FOR AND REQUIRE COMPETENT, ADEQUATE AND CONTINUOUS INSPECTION BY AN INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION, TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, AND TO DSA. THE COST OF PROJECT INSPECTION SHALL BE PAID FOR BY THE DISTRICT. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT RELATIONSHIP WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION. AN APPROVED PROJECT INSPECTOR MAY BE REMOVED AND REPLACED IF THE WORK PERFORMED IS NOT IN CONFORMANCE WITH ACCEPTED INSPECTION STANDARDS AS DETERMINED BY THE DISTRICT AND THE PROJECT ARCHITECT AND ENGINEER WITH CONCURRENCE OF DSA.

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON VERIFY THAT MILL CERTIFICATES SHOW STRUCTURAL STEEL AND MISCELLANEOUS IRON IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

POST INSTALLED ANCHORS

 CONTINUOUSLY INSPECT PLACEMENT OF POST-INSTALLED ANCHORS. THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INSTALLATION IN THE INSPECTION REPORT

ANCHOR TYPE, SIZE, AND DIMENSIONS. HOLE DIMENSIONS AND CLEANLINESS.

ANCHOR SPACING.

 EDGE DISTANCE. ANCHOR EMBEDMENT.

TORQUE VALUE (AS APPLICABLE). ADHESIVE ANCHOR INSTALLER CERTIFICATION (AS APPLICABLE).

TEST ANCHORS PER THE REQUIREMENTS OF CBC SECTION 1910A.5 AND ANCHOR'S ICC REPORT AND WITH THE

FOLLOWING FREQUENCY: 100% FOR STRUCTURAL APPLICATIONS: EXCEPTIONS:

1. 10% AT SILL PLATE BOLTING. 25% AT INTERFACE DOWELS AT CAST-IN-PLACE CONCRETE OR SHOTCRETE WALL OVERLAYS 3. SLAB-ON-GRADE COLD JOINT DOWELS WHERE APPROVED BY THE ENGINEER.

50% FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE (ANCHORS NOT SHOWN ON

STRUCTURAL DRAWINGS).

 TESTING OF ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO DSA. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY

TESTING VALUES AS NOTED IN POST-INSTALLED ANCHOR TESTING LOADS ON SHEET $\binom{1}{80.1}$

ABBREVIATIONS

LAYOUT LINE

IFFT

LAG SCREW(S)

LIGHT WEIGHT

MACHINE BOLT(S)

MANUFACTURER

MISCELLANEOUS

MINIMUM, MINUTES

POWDER DRIVEN FASTENER

PARTIAL JOINT PENETRATION

POINT ON HORIZONTAL CURVE

POINT OF REVERSE VERTICAL CURVE

POINT ON VERTICAL CURVE

POINT OF REVERSE CURVE

POUNDS PER SQUARE FOOT

POINT OF INTERSECTION

PROFILE GRADE

PROPERTY LINE

POINT ON TANGENT

PLATE

PLYWOOD

MAXIMUM

ABBREVIATIONS

FLEV

EVC

EXIST

FOS

FTG

GLB

HDR

HEX

HGR

LBS

LGS

LLV

LOC

HORIZ

H or HT HEIGHT

EXISTING

EXPRESSWAY

FINISH(ED)

FLOW LINE

FAR SIDE

FOOTING

GAUGE

HEADER

HANGER

GALVANIZED

HEXAGONAL

HORIZONTAI

INSULATION

LINEAR FOOT

LIVE LOAD

LOCATION

LIGHT GAUGE STEEL

LONG LEG VERTICAL

POUNDS

HIGH STRENGTH

INSIDE DIAMETER

FOUNDATION

FINISHED GRADE

FACE OF CONCRETE

FACE OF MASONR

FULL PENETRATION

GLUE LAMINATED BEAM

HIGH STRENGTH BOLT

INSPECTION/INSPECTOR

ONE THOUSAND POUNDS

LONG LEGS BACK TO BACK

LONG LEG HORIZONTAL

HOLLOW STRUCTURAL SECTION

FACE OF STUD(S)

FREE OF HEART CENTER

FRAMED BEAM CONNECTION

DIAMETER LONGIT LONGITUDINAL NUMBER ANCHOR BOLT AMERICAN CONCRETE INSTITUTE LW ARCHITECTURALLY EXPOSED MAX STRUCTURAL STEEL ALTERNATE APPROX APPROXIMATE(LY ARCH ARCHITECT(URAL BLDG BUILDING BLK BLOCK

MECHANICAL MFR MIN MISC MOD MODIFIED OR MODIFY BLOCKING NOT IN CONTRACT BEAM **BOUNDARY NAILING** No. NUMBER **BOTTOM OF FOOTING** NOM **BEGIN VERTICAL CURVE** NS CENTER TO CENTER NTS CENTERLINE

NOMINAL DIAMETER NOMINA **NEAR SIDE** NOT TO SCALE ON CENTER CUBIC FOOT **OUTSIDE DIAMETER** CAST IN DRILLED HOLE ORIGINAL GROUND CAST IRON PIPE **OPPOSITE HAND** CONSTRUCTION JOINT OPPOSITE OWSJ COMPLETE JOINT PENETRATION OPEN WEB STEEL JOIST CEILING STEEL PLATE CLEAR. CLEARANCE POINT OF CURVATURE PCC POINT OF COMPOUND CURVE OR CORRUGATED STEEL PIPE CONCRETE MASONRY UNIT PORTLAND CEMENT CONCRETE COLUMN PERFORATED CONCRETE PIPE POINT OF COMPOUND VERTICAL CURVE

CIDH CLG CLR CMP COL CONC CONCRETE CONN CONNECTION PDF CONST CONSTRUCTION CONT CONTINUOUS COORD COORDINATE COUNTERSINK CSK

CY CUBIC YARD PLY DBL DOUBLE DCW DEMAND CRITICAL WELD DOUGLAS FIR DIAGONAL DIAMETER PRVC DISTANCE **DEAD LOAD** DO

POUNDS PER SQUARE INCH POINT OR POST TENSION DITTO PTDF PRESSURE TREATED DOUGLAS FIR DRAWING PVC POLYVINYL CHLORIDE RAD or R RADIUS **EXISTING** EACH RCP REINFORCED CONCRETE PIPE END HORIZONTAL CURVE REINF REINFORCED, REINFORCING REQ'D END CURB RETURN REQUIRED REV **ELEVATION** REVISION **ELEVATOR** RS ROUGH SAWN RIGHT **EMBANKMEN EDGE NAILING** RETAINING WALL RWD REDWOOD R/W END VERTICAL CURVE RIGHT OF WAY SAD **EACH WAY** SEE ARCHITECTURAL DRAWINGS

SCHED SCHEDULE SEC SHT SECTION SHEET SHTG SHEATHING SIM SIMILAR SEISMIC LOAD RESISTING SYSTEM SHEET STEEL SHEET STEEL SCREW SPEC(S) SPECIFICATION(S) SQUARE

SQFT SQUARE FOOT SQYD SQUARE YARD STAGGERED STANDARD STL STEEL STRUCT STRUCTURAL SELF TAPPING SCREW STS SYMMETRICAL TONGUE AND GROOVE TBR TO BE REMOVED TEMP TEMPORARY TOP OF TOP OF FOOTING TOP TOP OF PLATE

TOS TOP OF SLAB OR STEEL TOW TOP OF WALL TRANS TRANSVERSE TYP TYPICAL U.N.O. UNLESS NOTED OTHERWISE VERTICAL CURVE VERT VERTICAL WF WIDE FLANGE WATERPROOF or WORKPOINT

WEIGHT

WWF WELDED WIRE FABRIC

WT

GENERAL NOTES

1. CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS

2. DO NOT SCALE DRAWINGS. SCALE SHOWN FOR REFERENCE ONLY.

3. THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.

4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, AND MEP CONTRACT DOCUMENTS. AS WELL AS ANY OTHER APPLICABLE TRADES. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED PRIOR TO BIDDING AND PROCEEDING WITH THE WORK.

5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS REQUIRED TO COMPLETE THE PROJECT. NO PORTION OF THE STRUCTURE SHALL BE

CONSIDERED TO BE SELF SUPPORTING UNTIL THE ENTIRE VERTICAL AND LATERAL LOAD RESISTING SYSTEM IS IN PLACE.

6. THE CONTRACTOR SHALL PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN

7. CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.

8. CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, U.N.O.

9. CENTERLINES OF FOUNDATION GRADE BEAMS COINCIDE WITH CENTERLINES OF WALLS, U.N.O.

10. CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, U.N.O. 11. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PROPOSED FOUNDATION CONSTRUCTION JOINT LOCATIONS, DETAILS, AND THE PLACEMENT SEQUENCE FOR THE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO PROCEEDING WITH

12. NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

13. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS

14. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYPICAL, U.N.O.

PROJECT DESCRIPTION

PROJECT DATA

- GOVERNING CODE: 2019 CALIFORNIA BUILDING CODE W/ CHAPTER A AMENDMENTS

PLANS AND CALCULATIONS FOR THE STRUCTURAL DESIGN WERE BASED UPON:

ROOF LIVE LOAD = 20 PSF [REDUCED PER CODE]

ASSUMED ROOF DEAD LOADS

BLDG A TYPICAL = 15 PSF

BLDG F TYPICAL = 15 PSF BLDG F OVERHANG = 22 PSF BLDG G TYPICAL = 15 PSF BLDG G OVERHANG = 21.5 PSF

BLDG A OVERHANG = 22.5 PSF BLDG B/C/D/E/H TYPICAL = 15 PSF BLDG B/C/D/E/H OVERHANG = 21 PSF

EQUIVALENT LATERAL FORCE PROCEDURE

SITE CLASS = D; SEISMIC DESIGN CAT = D

NON-STRUCTURAL COMPONENT ANCHORAGE:

INTERNAL PRESSURE COEFFICIENT = +0.18, -0.18

PRESUMPTIVE BEARING PRESSURES PER CBC:

1500 PSF

AC A1-A3, B1-B6, C1-C7, D1-D5, E1-E4, F1-F7, G1-G5, H1-H6; Ap = 2.5 Rp = 3.0

NON STRUCTURAL COMPONENT DESIGN WIND PRESSURE = 18.9 PSF [LRFD]

LEVELS: 1 STORY

FOUNDATION: CONTINUOUS GRADE BEAMS & CONCRETE SLAB ON GRADE

ROOF SYSTEM: DIAGONAL SHEATHING OVER SAWN LUMBER AND OPEN WEB STEEL JOISTS

LATERAL FORCE RESISTING SYSTEM: STEEL MOMENT FRAMES AT LIGHT FRAME WOOD SHEARWALLS

DIAPHRAGMS: DIAGONAL SHEATHING

VERTICAL LOADS:

EARTHQUAKE DESIGN DATA:

WIND DESIGN DATA:

 $V = \underline{S}_{DS} \underline{I} W$

 $S_S = .946$; $S_1 = .343$

 $S_{DS} = .756$; $S_{D1} = N/A$

RISK CATEGORY III

FOUNDATION DESIGN CRITERIA:

WIND EXPOSURE = C

I = 1.25; RISK CATEGORY III

BASIC WIND SPEED = 101 MPH

APPROVED OTHERWISE BY THE ENGINEER.

CHORDS & COLLECTORS: SAWN LUMBER MISC: ADDING HVAC UNITS TO EXISTING BUILDINGS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:

DATE: <u>07/27/2023</u>

BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREE FRESNO, CA 93706

Project Name:

 \triangle

CENTRAL PLAN REPLACEMENT

Project Address: WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET. SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization © COPYRIGHT 2019

POST-INSTALLED ANCHOR TESTING LOADS

TORQUE INSTALLATION DECLUDEMENTS

	ETE ANC	_		
ANCHOR DIAMETER	HILTI KB-TZ2 (ICC ESR 4266)			
DIAWETER	MINIMUM NOMINAL EMBED	INSTALL TORQUE (FT-LBS)		
1/2"	3 3/4"	50		

HEAVY HEX

NOTES:

1. SEE 'TESTING AND SPECIAL INSPECTION' SECTION FOR INSPECTION & TESTING REQUIREMENTS.

2. MINIMUM EMBEDMENTS VARY BETWEEN MANUFACTURERS. EMBEDMENTS NOTED ARE MINIMUMS AND SHOULD BE INCREASED AS REQUIRED TO MEET MANUFACTURER'S PUBLISHED MINIMUM EMBEDMENTS. 3. ANCHORS SHOULD BE INSTALLED INTO MEMBERS WITH A MINIMUM THICKNESS AS NOTED IN THE MANUFACTURER'S ICC

4. WHERE DRILLED HOLE DEPTH IS WITHIN 2 1/2" OF THE EDGE OF MEMBER, CONTRACTOR SHALL USE ROTARY DRILL. 5. TENSION TESTED ANCHORS SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS, AND SHALL EXHIBIT NO

DISCERNIBLE MOTION DURING THE TEST (SUCH AS LOOSENING OF THE WASHER BELOW THE NUT) 6. TORQUE TESTED ANCHORS SHALL ATTAIN THE SPECIFIED TORQUE WITH ONE-HALF (1/2) TURN OF THE NUT

AS-BUILT INFORMATION

THESE PLANS ARE BASED ON AS-BUILT INFORMATION PROVIDED BY THE DISTRICT. TO ACCURATELY CONSTRUCT THIS UPGRADE, THE CONTRACTOR MUST INTERACT WITH THE EXISTING STRUCTURE. PLEASE NOTE THE FOLLOWING: 1. THE CONTRACTOR MAY OBTAIN AS-BUILT DOCUMENTATION FROM THE DISTRICT PRIOR TO BIDDING AND

CONSTRUCTION OF THESE PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. 3. WHERE WELDING NEW REINFORCEMENT TO EXISTING REINFORCEMENT. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND LAYOUT OF THE EXISTING REINFORCEMENT. ALL NEW REINFORCEMENT SHALL MATCH THE SIZE OF THE

EXISTING REINFORCEMENT. WHERE EXISTING REINFORCEMENT IS TO BE WELDED TO NEW REINFORCEMENT, WELDING COMPATIBILITY SHALL BE CHECKED. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THE STATEMENT ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. 4. WHERE DRILLING EXISTING BEAMS, COLUMNS, AND WALLS FOR THE PURPOSE OF PROVIDING NEW ANCHORS OR REINFORCING DOWELS, THE CONTRACTOR SHALL SCAN THE EXISTING MEMBER TO LOCATE THE EXISTING REINFORCEMENT PRIOR TO DRILLING. FURTHER, THE CONTRACTOR SHALL NOT COMPROMISE THE LOAD CARRYING CAPABILITY OF ANY MEMBER WHILE PERFORMING WORK ON THAT MEMBER UNLESS SUPPLEMENTARY SUPPORTS ARE PROVIDED DURING INSTALLATION. ANY CONDITIONS ENCOUNTERED IN THE FIELD WHERE EXISTING REINFORCEMENT PREVENTS PLACEMENT OF DOWELS AS SHOWN IN THESE PLANS SHALL BE BROUGHT TO THE

ATTENTION OF THE ENGINEER IMMEDIATELY. 5. WHERE CORING OF EXISTING SLABS, WALLS, BEAMS, AND COLUMNS FOR THE PURPOSE OF PROVIDING NEW PIPES OR CONDUITS IS SHOWN ON OTHER CONSULTANTS DRAWINGS, THE CONTRACTOR SHALL SCAN THE EXISTING MEMBER TO LOCATE THE EXISTING REINFORCEMENT PRIOR TO CORING. CORES SHALL BE LOCATED TO AVOID EXISTING REINFORCING. FURTHER. THE CONTRACTOR SHALL NOT COMPROMISE THE LOAD CARRYING CAPABILITY OF ANY MEMBER WHILE PERFORMING WORK ON THAT MEMBER. ANY CONDITIONS ENCOUNTERED IN THE FIELD WHERE EXISTING REINFORCEMENT PREVENTS PLACEMENT OF CORES AS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

SHEET INDEX

S1.1

S1.4 ENLARGED ROOF FRAMING PLANS No. 4 S2.1 ROOF STRENGTHENING DETAILS

ENLARGED ROOF FRAMING PLANS No. 1

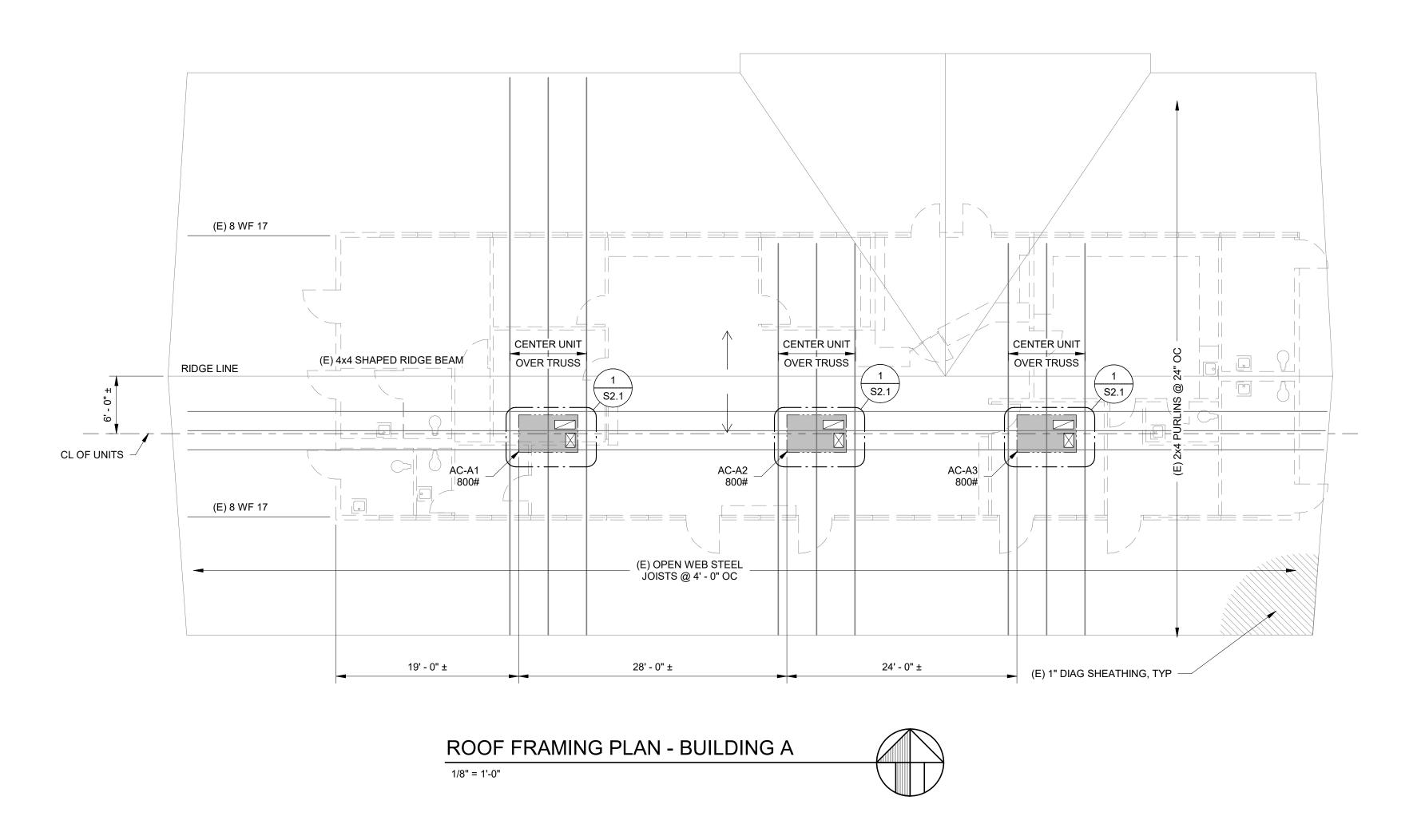
ENLARGED ROOF FRAMING PLANS No. 2 S1.3 ENLARGED ROOF FRAMING PLANS No. 3

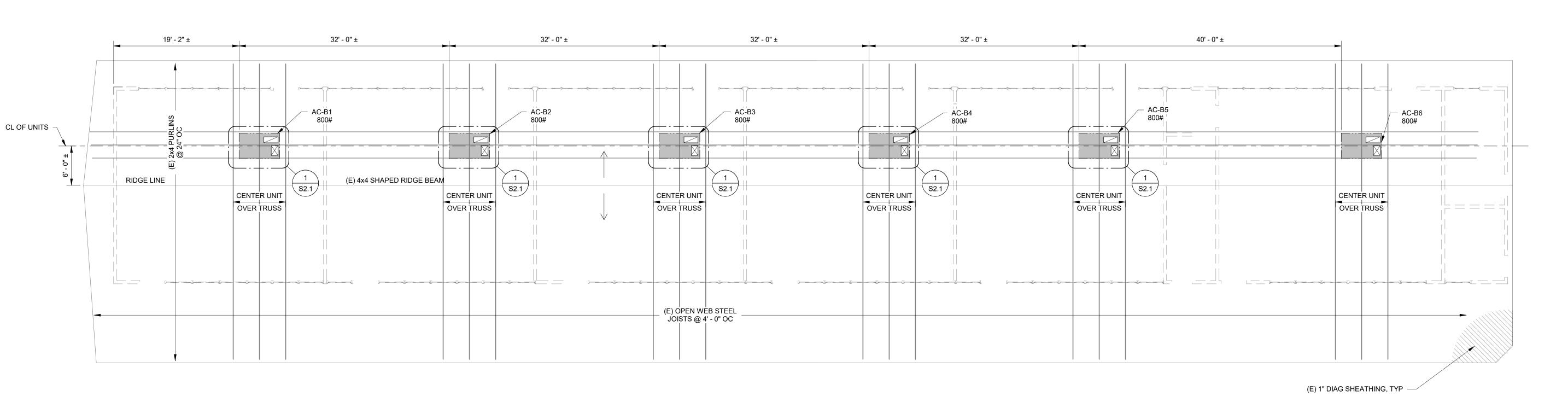
MATERIAL DATA, PROJECT INFORMATION, TESTING & SPECIAL INSPECTION

MATERIAL DATA, **PROJECT** INFORMATION, **TESTING & SPECIAL INSPECTION**

5525

Sheet No.:





ROOF FRAMING NOTES:

REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1 CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH

ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE

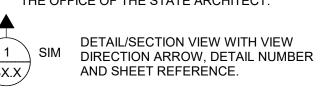
ENGINEER IMMEDIATELY. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.

5. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY

CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

6. MOISTURE CONTENT OF ALL NEW BLKG SHALL MATCH OR BE LOWER THAN THE MOISTURE CONTENT OF THE EXISTING JOISTS. SEE 2/S2.1 FOR DETAILS OF TYPICAL OPENING THROUGH (E) ROOF. DO NOT CUT STRUCTURAL FRAMING. THE DIMENSIONS LOCATING THE NEW HVAC EQUIPMENT SHALL BE VERIFIED, ALONG WITH THE DIMENSIONS OF THE NEW EQUIPMENT, DUCTWORK AND EXISTING CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION. WHERE EXISTING CONDITIONS VARY FROM THOSE SHOWN OR WHERE NEW EQUIPMENT DICTATES A SIGNIFICANT (GREATER THAN 1'-0") ADJUSTMENT OF THE UNIT LOCATIONS, THE ARCHITECT SHALL REVIEW THE

PROPOSED MODIFICATION PRIOR TO THE CONTINUATION OF THE WORK. NO STRUCTURAL MEMBERS SHALL BE NOTCHED OR CUT NOR ANY HOLES BE BORED IN THEM UNLESS THEY ARE DETAILED ON DRAWINGS AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT.



INDICATES (N) FRAMED OPENING.

INDICATES ROOF SLOPE. SEE ARCH DRAWINGS FOR EXTENTS.

- INDICATES NEW MECHANICAL UNITS ABOVE ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE. 600# INDICATES MAXIMUM UNIT WEIGHT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆 DATE: <u>07/27/2023</u>



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET FRESNO,CA 93706

Project Name:

CENTRAL PLAN REPLACEMENT

Project Address: WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. © COPYRIGHT 2019

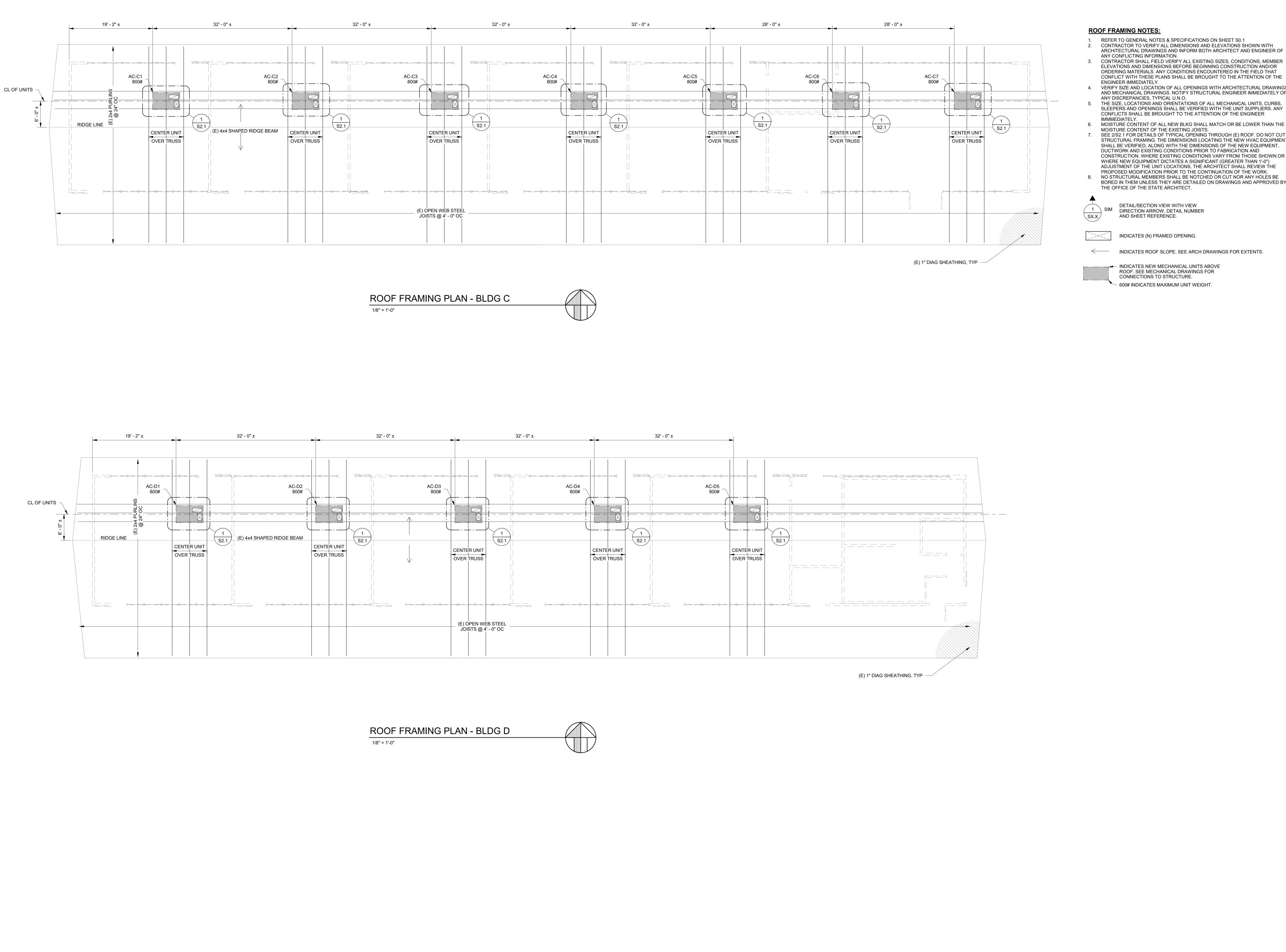
ENLARGED ROOF

FRAMING PLANS No. 1

5525

ROOF FRAMING PLAN - BLDG B

1/8" = 1'-0"



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE

4. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O. 5. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY

CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER 6. MOISTURE CONTENT OF ALL NEW BLKG SHALL MATCH OR BE LOWER THAN THE MOISTURE CONTENT OF THE EXISTING JOISTS. SEE 2/S2.1 FOR DETAILS OF TYPICAL OPENING THROUGH (E) ROOF. DO NOT CUT STRUCTURAL FRAMING. THE DIMENSIONS LOCATING THE NEW HVAC EQUIPMENT SHALL BE VERIFIED, ALONG WITH THE DIMENSIONS OF THE NEW EQUIPMENT, DUCTWORK AND EXISTING CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION. WHERE EXISTING CONDITIONS VARY FROM THOSE SHOWN OR WHERE NEW EQUIPMENT DICTATES A SIGNIFICANT (GREATER THAN 1'-0") ADJUSTMENT OF THE UNIT LOCATIONS, THE ARCHITECT SHALL REVIEW THE PROPOSED MODIFICATION PRIOR TO THE CONTINUATION OF THE WORK.

NO STRUCTURAL MEMBERS SHALL BE NOTCHED OR CUT NOR ANY HOLES BE BORED IN THEM UNLESS THEY ARE DETAILED ON DRAWINGS AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT.

DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.

INDICATES NEW MECHANICAL UNITS ABOVE ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.

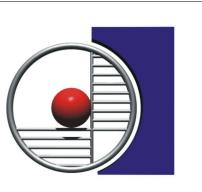
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET FRESNO,CA 93706

Project Name: **CENTRAL PLAN** REPLACEMENT

Project Address: WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

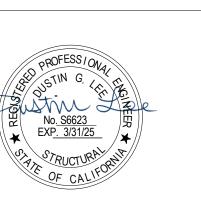
by SOMAM, Inc.

ARCHITECTURE ENGINEERING

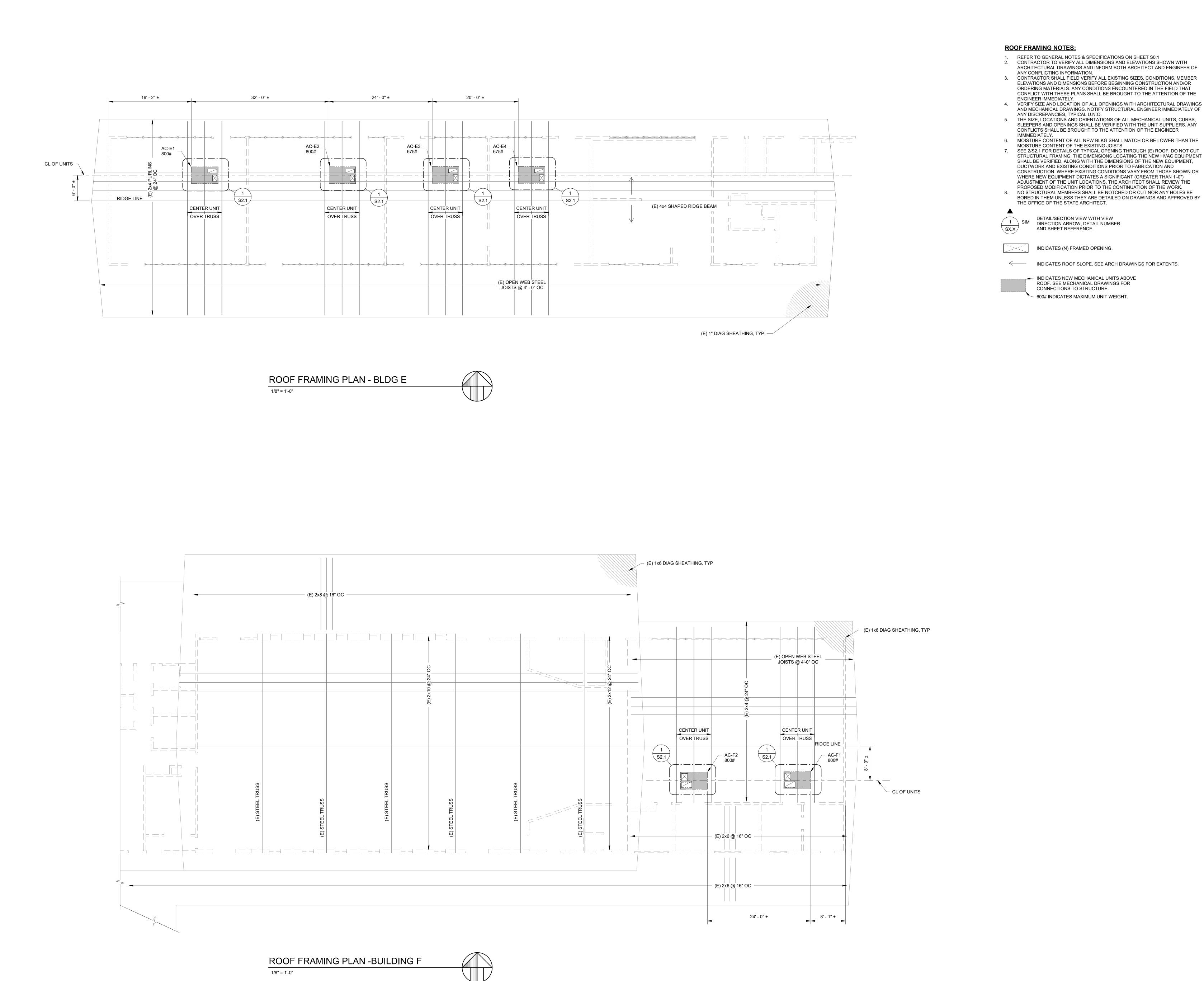
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

INTERIOR DESIGN

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. © COPYRIGHT 2019



ENLARGED ROOF FRAMING PLANS No. 2



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER

INDICATES (N) FRAMED OPENING.

CONNECTIONS TO STRUCTURE.

INDICATES NEW MECHANICAL UNITS ABOVE

ROOF. SEE MECHANICAL DRAWINGS FOR

600# INDICATES MAXIMUM UNIT WEIGHT.

AND SHEET REFERENCE.

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET FRESNO,CA 93706

Project Name: **CENTRAL PLAN** REPLACEMENT

Project Address: **WASHINGTON** MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc. **ARCHITECTURE ENGINEERING**

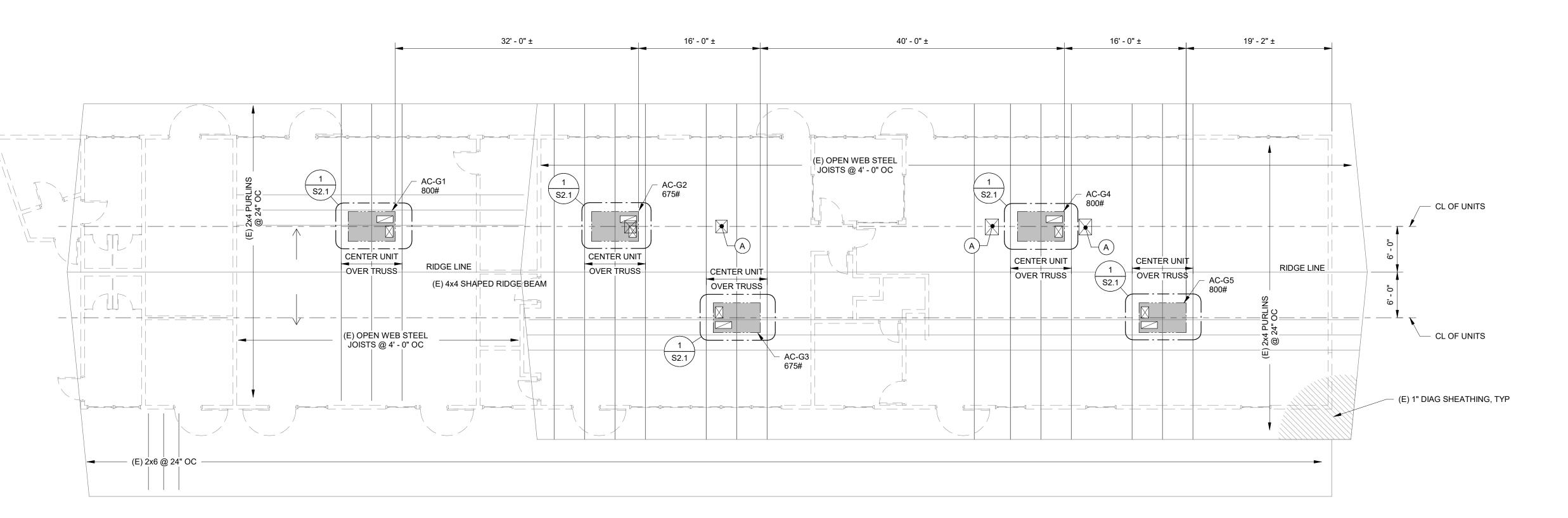
INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

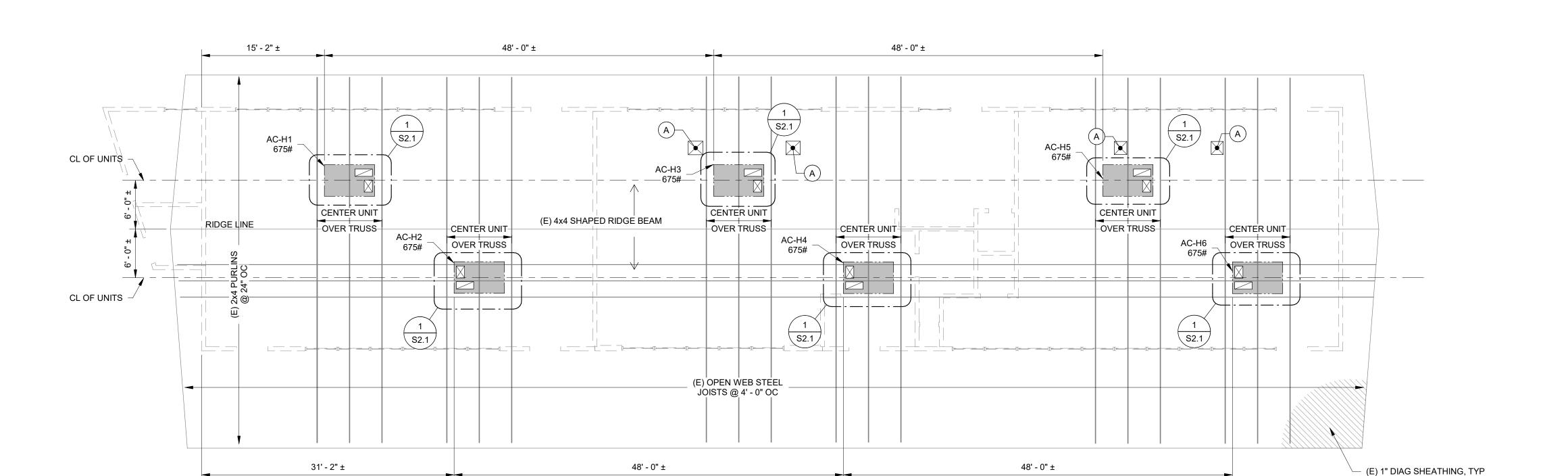
Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2019

ENLARGED ROOF FRAMING PLANS No. 3









ROOF FRAMING NOTES:

ANY CONFLICTING INFORMATION.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR

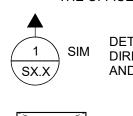
ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. 4. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF

ANY DISCREPANCIES, TYPICAL U.N.O. 5. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMMEDIATELY.

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1

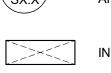
6. MOISTURE CONTENT OF ALL NEW BLKG SHALL MATCH OR BE LOWER THAN THE MOISTURE CONTENT OF THE EXISTING JOISTS. 7. SEE 2/S2.1 FOR DETAILS OF TYPICAL OPENING THROUGH (E) ROOF. DO NOT CUT STRUCTURAL FRAMING. THE DIMENSIONS LOCATING THE NEW HVAC EQUIPMENT SHALL BE VERIFIED, ALONG WITH THE DIMENSIONS OF THE NEW EQUIPMENT, DUCTWORK AND EXISTING CONDITIONS PRIOR TO FABRICATION AND

CONSTRUCTION. WHERE EXISTING CONDITIONS VARY FROM THOSE SHOWN OR WHERE NEW EQUIPMENT DICTATES A SIGNIFICANT (GREATER THAN 1'-0") ADJUSTMENT OF THE UNIT LOCATIONS, THE ARCHITECT SHALL REVIEW THE PROPOSED MODIFICATION PRIOR TO THE CONTINUATION OF THE WORK. 8. NO STRUCTURAL MEMBERS SHALL BE NOTCHED OR CUT NOR ANY HOLES BE BORED IN THEM UNLESS THEY ARE DETAILED ON DRAWINGS AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT.

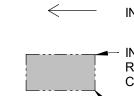


DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.

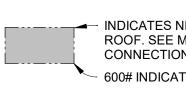
A— INDICATES (E) OPENING INFILL PER A3.11

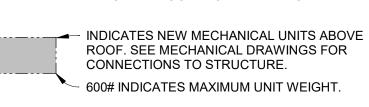


INDICATES (N) FRAMED OPENING.



INDICATES ROOF SLOPE. SEE ARCH DRAWINGS FOR EXTENTS.







CITY SCHOOL DISTRICT 1300 BAKER STREET

FRESNO,CA 93706

Project Name: **CENTRAL PLAN** REPLACEMENT

Project Address: WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



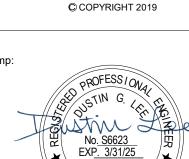
integrated designs

by SOMAM, Inc. **ARCHITECTURE ENGINEERING**

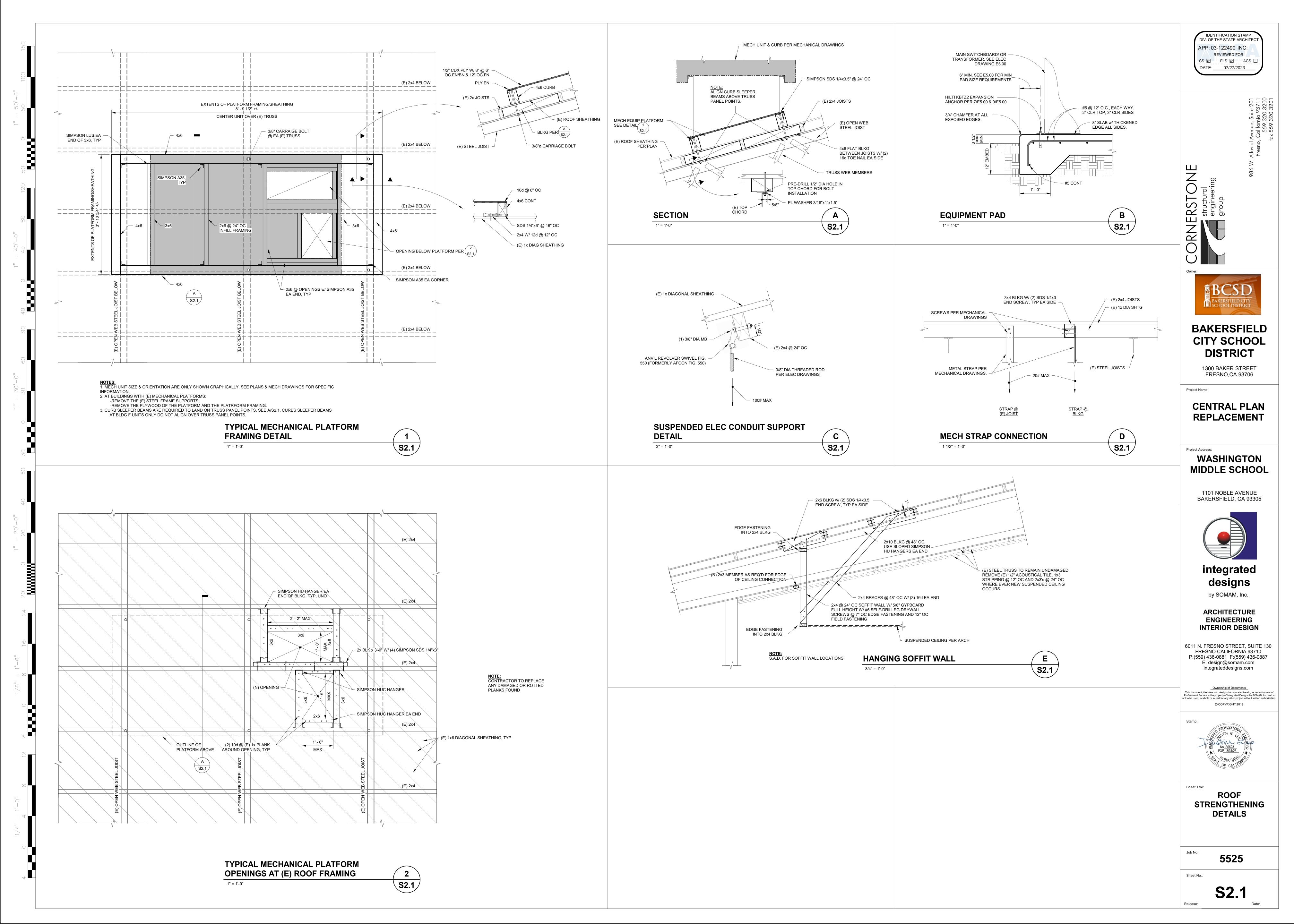
INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

integrateddesigns.com



ENLARGED ROOF FRAMING PLANS No. 4



PACKAGE AIR CO	NDITIONING UN	IIT SCHEDULE																
	AC B1	AC B2	AC B3	AC B4	AC B5	AC B6	AC C1	AC C2	AC C3	AC C4	AC C5	AC C6	AC C7	AC D1	AC D2	AC D3	AC D4	AC D5
MARK VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
MCA / MOCP	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25	23 / 25
FLA / LRA	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53
FUSE SIZE	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
BLOWER:	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	25	20
CFM	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
DUCT SP (IN WC)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
HP / BHP	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT											
COOLING:	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES											
TOTAL (MBH)	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
SENSIBLE (MBH)	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
REFRIGERANT	R410A	R410A	R410A	R410A	R410A	R410A	R410A											
CONDENSATE CONN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:																		
CAPACITY (MBH)	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
EADB (°F)	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
AMBIENT DB (°F)	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
HSPF / COP	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7
FILTERS:																		
RA: QUANTITY / SIZE	4 / 16x16x2																	
TYPE	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13											
PD, CLEAN (IN WC)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1											
ТҮРЕ	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE											
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER											
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP											
MODEL NUMBER	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05											
CONTROL	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)											
SERVICE	CLASSROOM B-1	CLASSROOM B-2	CLASSROOM B-3	CLASSROOM B-4	CLASSROOM B-5	CLASSROOM B-6	CLASSROOM C-1	CLASSROOM C-2	CLASSROOM C-3	CLASSROOM C-4	CLASSROOM C-5	CLASSROOM C-6	CLASSROOM C-6	CLASSROOM D-1	CLASSROOM D-2	CLASSROOM D-3	CLASSROOM D-4	CLASSROOM D-5
OP WEIGHT (LBS)	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
ACCESSORIES	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5),(7)	(1),(2),(3),(4),(5),(7)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)	(1),(2),(3),(4),(5)

PACKAGE AIR CONDITIONING UNIT SCHEDULE		
MARK AC E1 AC E2 AC E3 AC E4	AC F1	AC F2
VOLTS/PHASE 460/3 460/3 460/3 460/3	460/3	460/3
MCA / MOCP 23 / 25 23 / 25 19 / 20 19 / 20	27 / 30	27 / 30
FLA / LRA 21 / 53 21 / 53 18 / 49 18 / 49	25 / 65	25 / 65
FUSE SIZE 25 25 20 20	30	30
BLOWER:		
CFM 1600 1600 1200 1200	2000	2000
DUCT SP (IN WC) 0.8 0.8 0.8 0.8	0.8	0.8
MINIMUM OSA (CFM) 150 150 150 150	150	150
HP / BHP 1 / 0.79 1 / 0.79 0.75 / 0.53 0.75 / 0.53	1.5 / 1.19	1.5 / 1.19
DRIVE DIRECT DIRECT DIRECT DIRECT	DIRECT	DIRECT
COOLING: 2 STAGES 2 STAGES 2 STAGES 2 STAGES	2 STAGES	2 STAGES
TOTAL (MBH) 44.5 44.5 33.1 33.1	58.6	58.6
SENSIBLE (MBH) 35 35 25.9 25.9	47.5	47.5
EADB / EAWB (°F) 80 / 67 80 / 67 80 / 67	80 / 67	80 / 67
AMBIENT DB (°F) 105 105 105	105	105
REFRIGERANT R410A R410A R410A R410A	R410A	R410A
CONDENSATE CONN 3/4" 3/4" 3/4" 3/4"	3/4"	3/4"
SEER / EER AT AHRI 16.2 / 12.2 16.2 / 12.2 16.2 / 12.5 16.2 / 12.5	16.2 / 12.2	16.2 / 12.2
HEATING:		
CAPACITY (MBH) 45.6 45.6 34.3 34.3	55.9	55.9
EADB (°F) 70 70 70 70	70	70
AMBIENT DB (°F) 47 47 47 47	47	47
STRIP HEATER (KW) 5.5 5.5 5.5 5.5	5.5	5.5
HSPF / COP 8.3 / 3.7 8.3 / 3.8 8.3 / 3.8	8.3 / 3.9	8.3 / 3.9
FILTERS:		
RA: QUANTITY / SIZE 4 / 16x16x2 4 / 16x16x2 2 / 16x25x2 2 / 16x25x2	4 / 16x16x2	4 / 16x16x2
TYPE MERV 13 MERV 13 MERV 13 MERV 13 MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC) 0.3 0.3 0.3 0.3	0.3	0.3
OSA: QUANTITY / SIZE 1 / 20x24x1 1 / 20x24x1 1 / 20x24x1 1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
TYPE WASHABLE WASHABLE WASHABLE WASHABLE	WASHABLE	WASHABLE
MANUFACTURER CARRIER CARRIER CARRIER CARRIER	CARRIER	CARRIER
TYPE HEAT PUMP HEAT PUMP HEAT PUMP HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER 50GCQM05 50GCQM04 50GCQM04	50GCQM06	50GCQM06
CONTROL T'STAT (6) T'STAT (6) T'STAT (6) T'STAT (6)	T'STAT (6)	T'STAT (6)
SERVICE CLASSROOM E-1 CLASSROOM E-2 CLASSROOM E-3 CLASSROOM E-4	BLDG F - BAND	BLDG F - BAND
OP WEIGHT (LBS) 800 800 675 675	800	800
ACCESSORIES (1),(2),(3),(4),(5) (1),(2),(3),(4),(5) (1),(2),(3),(4),(5)	(1),(2),(3),(4),(5),(7)	(1),(2),(3),(4),(5),(7)

(4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION

NOTES: (1) INSULATED ROOF CURB TO MATCH ROOF SLOPE

(2) HEAVY DUTY CONDENSER COIL GUARD

) INSULATED ROOF CURB TO MATCH ROOF SLOPE

(6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM SYSTEM

(2) HEAVY DUTY CONDENSER COIL GUARD

(5) DISCONNECT BY DIV 26 ELECTRICAL

(3) HINGED ACCESS PANELS

(3) HINGED ACCESS PANELS

(4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION
(5) DISCONNECT BY DIV 26 ELECTRICAL

(5) DISCONNECT BY DIV 26 ELECTRICAL
(6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

(6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT
(7) SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM SYSTEM

MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC-AA ALUMINUM FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
B	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
©	WALL SUPPLY	TITUS 272RL STEEL DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, 20 GAUGE BLADES PARALLEL TO LONG DIMENSION, SET ADJUSTABLE BLADES TO 0 DEGREE DEFLECTION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
D	WALL RETURN	TITUS 350RL STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
E	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 1 BORDER FOR SURFACE MOUNT, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
F	CEILING EXHAUST	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 1 BORDER FOR SURFACE MOUNT, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.

MEP COMPONENT ANCHORAGE NOTE

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

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

RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

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

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

PIPING, DUCTWORK, 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

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 PREAPPROVED 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.

MP□ MD□ PP□ E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #)
#OPM-0043 MASON WEST SEISMIC RESTRAINING GUIDELINES FOR
SUSPENDED DISTRIBUTION SYSTEMS.

GENERAL NOTES

- A. THE PLANS AND SPECIFICATIONS DESCRIBE THE PLUMBING WORK AND HVAC WORK OF THIS PROJECT ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.
- B. ALL LOCATIONS OF EXISTING UTILITIES, DUCTWORK, AND EQUIPMENT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTING UTILITIES AND DUCTWORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
- C. PLUMBING AND HVAC LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.
- PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719
- E. PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AIR INTAKE OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES
- F. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.
- G. THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL

CONFORM TO CBC CHAPTER 16A.

- H. PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 502, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.
- I. DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.
- J. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND GRILLES.

DESCRIPTION

UNIT ABBREVIATION

-NUMBER

10x10-3 NECK SIZE & BLOW

SUPPLY AIR

RETURN AIR

EXHAUST AIR

DUCT DROP

FIRE DAMPER

FIRE/SMOKE DAMPER

TO TOP OF BOX

– CHWR —

- CHWS ---

— RL ——

— RS ——

DUCT SMOKE DETECTOR

VOLUME CONTROL DAMPER

CARBON DIOXIDE SENSOR

CHILLED/HOT WATER RETURN

CHILLED/HOT WATER SUPPLY

REFRIGERANT LIQUID

REFRIGERANT SUCTION

ABOVE FINISH FLOOR

EXISTING

//// (E) TO BE REMOVED

THERMOSTAT AT 48" MAXIMUM T'STAT

CHWR

ACOUSTIC LINED DUCT

SQUARE TO ROUND FITTING

EQUIPMENT DESIGNATION

MECHANICAL LEGEND

DESCRIPTION

SOIL, WASTE OR DRAIN

VENT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER RETURN

GAS MAIN BY GAS UTILITY COMPAN

LOW PRESSURE NATURAL GAS

RAIN WATER LEADER

OVERFLOW LEADER

CONDENSATE DRAIN

DRAIN

INDIRECT WASTE

FLOOR CLEANOUT

CLEANOUT TO GRADE

WALL CLEANOUT

VENT THROUGH ROOF

GATE OR SHUT - OFF VALVE

BALL VALVE

CHECK VALVE

STRAINER

UNION

ELBOW UP

ELBOW DOWN

REDUCER

HOSE BIBB

PETES PLUG

PRESSURE RELIEF VALVE

S. W. D.

CW

COTG

GV OR SOV

STR

RED

__ __ __

---- GAS -----

—— G ———

---- OL -----

—— RWL —

—— CD —

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE

ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2022



Sheet Title:

GENERAL

NOTES -

5525

LEGEND

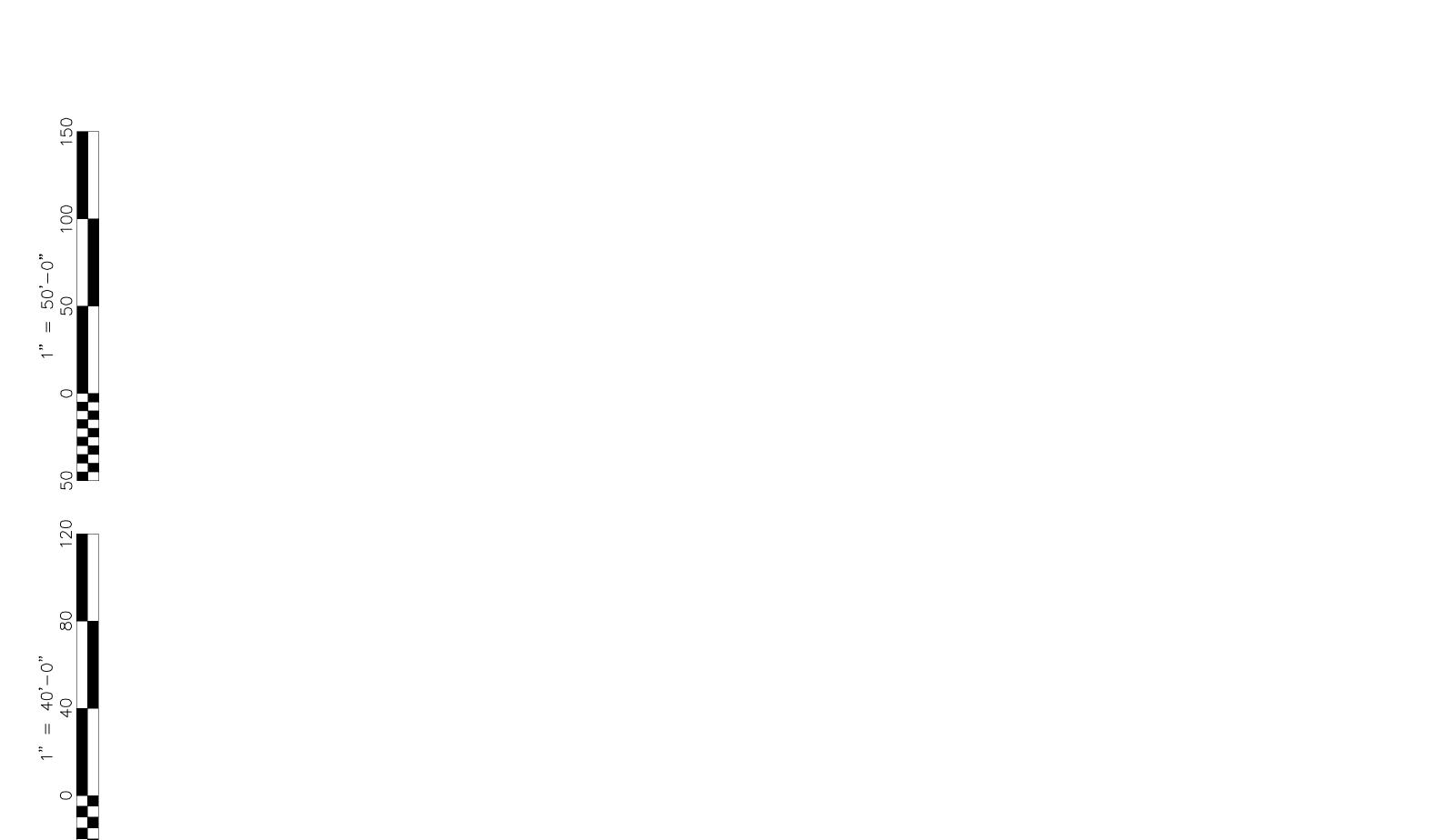
Sheet No.:

MO.01

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M0.01 GENERAL NOTES - LISA LUM LEGEND.dwg

POINT OF CONNECTION

OUTSIDE AIR



(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE (2) HEAVY DUTY CONDENSER COIL GUARD

(3) HINGED ACCESS PANELS (4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION

AC G3

460/3

19 / 20

18 / 49

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM G-2

675

AC G2

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

CLASSROOM G-2

675

(5) DISCONNECT BY DIV 26 ELECTRICAL (6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

PACKAGE AIR CONDITIONING UNIT SCHEDULE

460/3

27 / 30

25 / 65

30

2000

8.0

150

1.5 / 1.19

DIRECT

2 STAGES

58.6

47.5

80 / 67

105

R410A

3/4"

16.2 / 12.2

55.9

70

47

5.5

8.3 / 3.9

4 / 16x16x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM06

CLASSROOM G-1

800

VOLTS/PHASE

MCA / MOCP

FUSE SIZE

DUCT SP (IN WC)

TOTAL (MBH)

SENSIBLE (MBH)

EADB / EAWB (°F)

AMBIENT DB (°F)

CONDENSATE CONN

SEER / EER AT AHRI

REFRIGERANT

CAPACITY (MBH)

AMBIENT DB (°F)

HSPF / COP

STRIP HEATER (KW)

RA: QUANTITY / SIZE

PD, CLEAN (IN WC)

OSA: QUANTITY / SIZE

MANUFACTURER

MODEL NUMBER

OP WEIGHT (LBS)

MINIMUM OSA (CFM)

BLOWER:

(7) SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM SYSTEM (8) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT, iWAVE-C

PACKAGE AIR CO	INDITIONING UN	III SCHEDULE	1
MARK	AC A1	AC A2	AC A3
VOLTS/PHASE	460/3	460/3	460/3
MCA / MOCP	27 / 30	27 / 30	23 / 25
FLA / LRA	25 / 65	25 / 65	21 / 53
FUSE SIZE	30	30	25
BLOWER:			
CFM	2000	2000	1600
DUCT SP (IN WC)	0.8	0.8	0.8
MINIMUM OSA (CFM)	160	160	100
HP / BHP	1.5 / 1.19	1.5 / 1.19	1 / 0.79
DRIVE	DIRECT	DIRECT	DIRECT
COOLING:	2 STAGES	2 STAGES	2 STAGES
TOTAL (MBH)	58.6	58.6	44.5
SENSIBLE (MBH)	47.5	47.5	35
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105
REFRIGERANT	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:			
CAPACITY (MBH)	55.9	55.9	45.6
EADB (°F)	70	70	70
AMBIENT DB (°F)	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5
HSPF / COP	8.3 / 3.9	8.3 / 3.9	8.3 / 3.7
FILTERS:			
RA: QUANTITY / SIZE	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2
TYPE	MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC)	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
ТҮРЕ	WASHABLE	WASHABLE	WASHABLE
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	50GCQM06	50GCQM06	50GCQM05
CONTROL	(E) T'STAT (6)	(E) T'STAT (6)	(E) T'STAT (
SERVICE	BLDG A	BLDG A	BLDG A
OP WEIGHT (LBS)	800	800	800
()		000	500

ACCESSORIES

(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE

(2) HEAVY DUTY CONDENSER COIL GUARD

(3) HINGED ACCESS PANELS (4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, AND

BAROMETRIC RELIEF (5) DISCONNECT BY DIV 26 ELECTRICAL

(6) PROVIDE CONTROLLER INTERFACE FOR COMMUNICATION TO EXISTING PELICAN

(7) SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM

(8) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT, iWAVE-C

(1),(2),(3),(4),(5),(7),(8) (1),(2),(3),(4),(5),(7),(8) (1),(2),(3),(4),(5),(7),(8)

APP: 03-122490 INC:

AC H6

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM H-3

675

(1),(2),(3),(4),(5),(7)

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM H-3

675

(1),(2),(3),(4),(5),(7) (1),(2),(3),(4),(5),(7)

AC H3

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

675

CLASSROOM H-2

AC H4

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM H-2

675

AC H1

460/3

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM H-1

675

19 / 20

18 / 49

20

1200

8.0

150

0.75 / 0.53

DIRECT

2 STAGES

33.1

25.9

80 / 67

105

R410A

3/4"

16.2 / 12.5

34.3

70

47

5.5

8.3 / 3.8

2 / 16x25x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM04

T'STAT (6)

CLASSROOM H-1

675

AC G5

460/3

27 / 30

25 / 65

30

2000

8.0

150

1.5 / 1.19

DIRECT

2 STAGES

58.6

47.5

80 / 67

105

R410A

3/4"

16.2 / 12.2

55.9

70

47

5.5

8.3 / 3.9

4 / 16x16x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM06

T'STAT (6)

LIBRARY G-3

AC G4

460/3

27 / 30

25 / 65

30

2000

8.0

150

1.5 / 1.19

DIRECT

2 STAGES

58.6

47.5

80 / 67

105

R410A

3/4"

16.2 / 12.2

55.9

70

47

5.5

8.3 / 3.9

4 / 16x16x2

MERV 13

0.3

1 / 20x24x1

WASHABLE

CARRIER

HEAT PUMP

50GCQM06

LIBRARY G-3

800

 $(1),(2),(3),(4),(5),(7) \qquad (1),(2),(3),(4),(5),(7) \qquad (1),(2),(3),(4),(5),(7) \qquad (1),(2),(3),(4),(5),(7),(8) \qquad (1),(2),(3),(4),(5),(7),(8) \qquad (1),(2),(3),(4),(5),(7) \qquad (1),(2),(3),(4),(5),(2) \qquad (1),(2),(3),(4),(5),(2) \qquad (1),(2),(3),(4),(5),(2) \qquad (1),(2),$

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

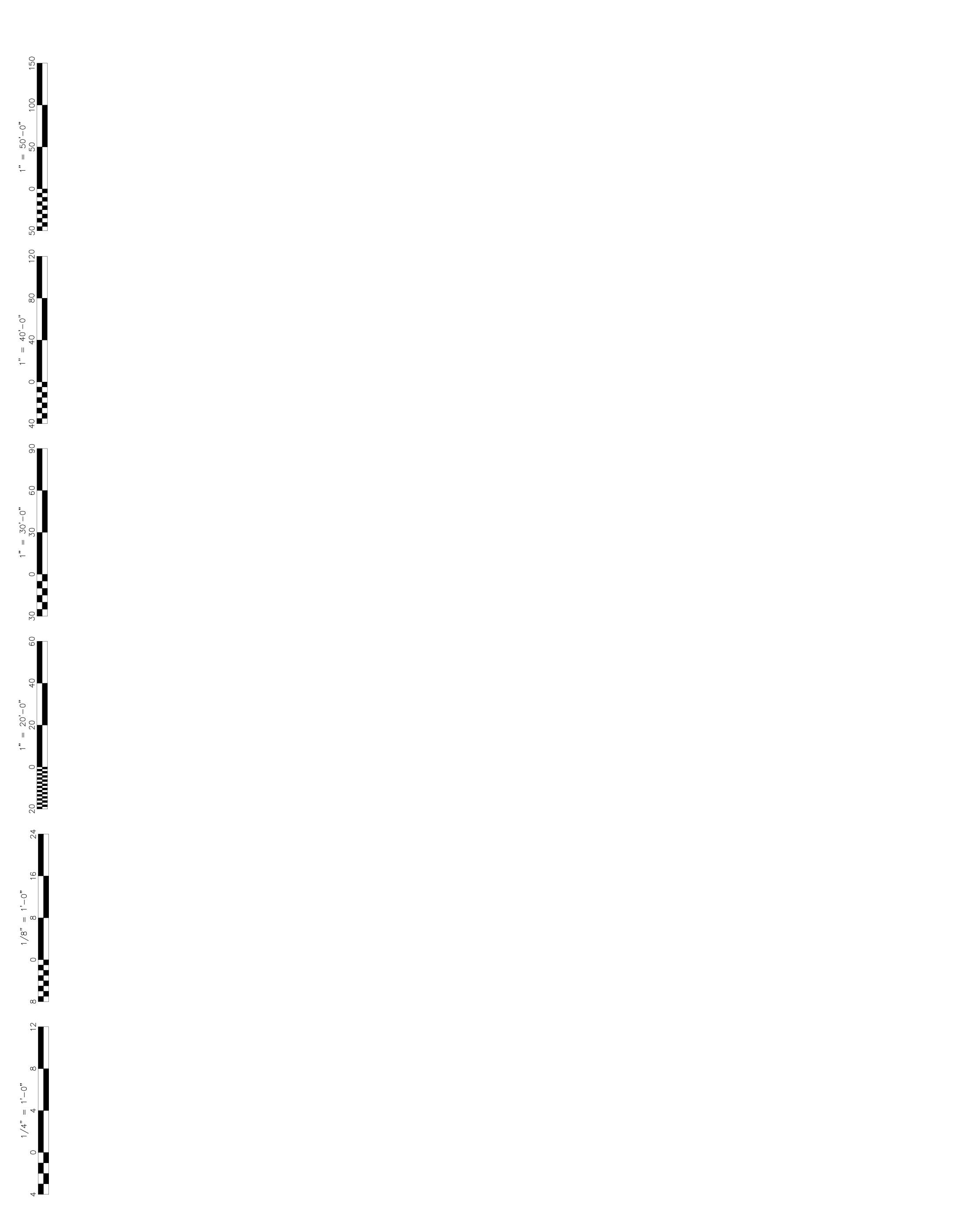
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

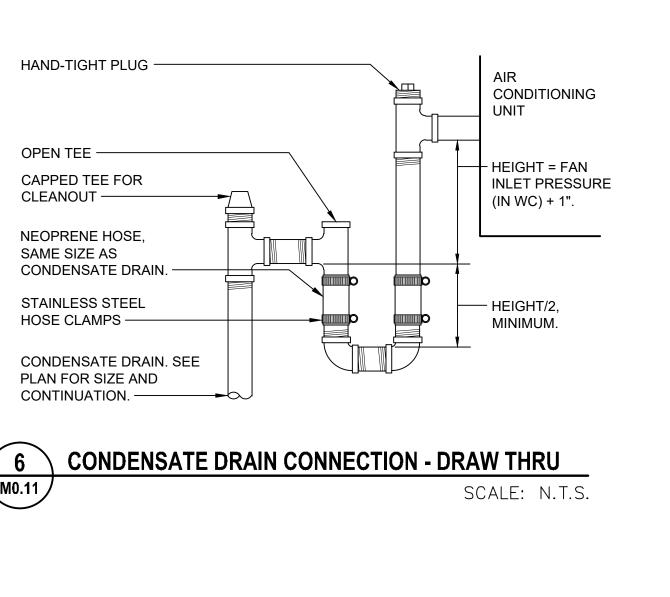
This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization COPYRIGHT 2022

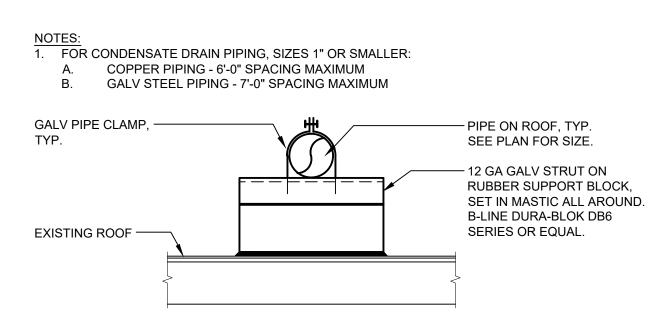


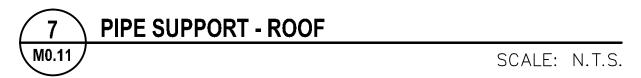
Sheet Title:

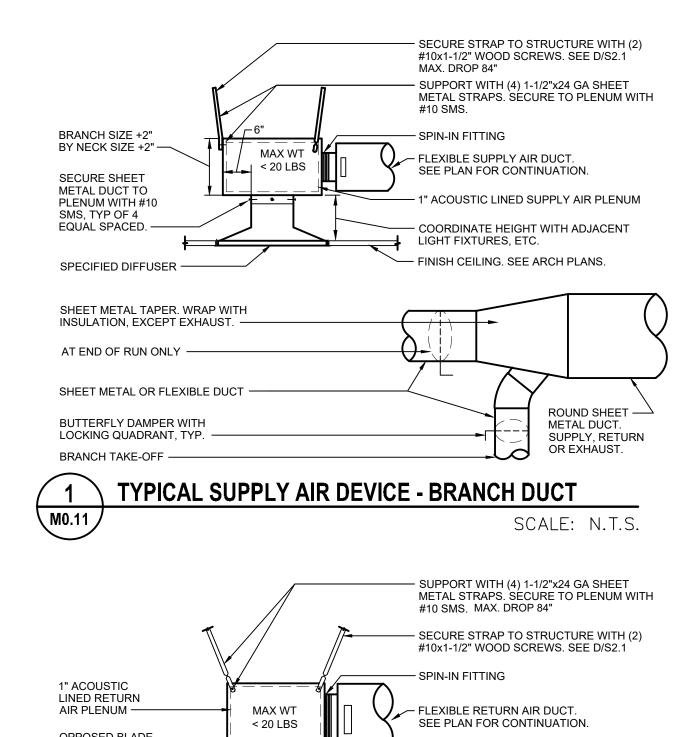
SCHEDULES

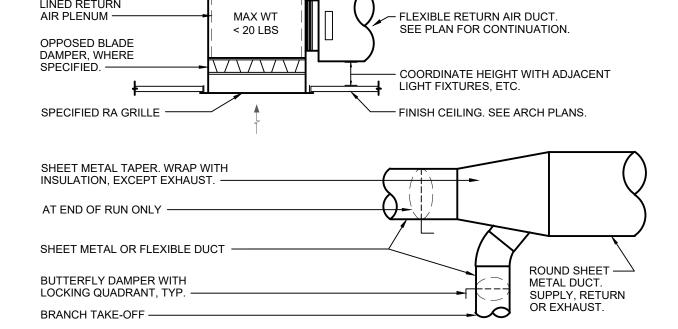






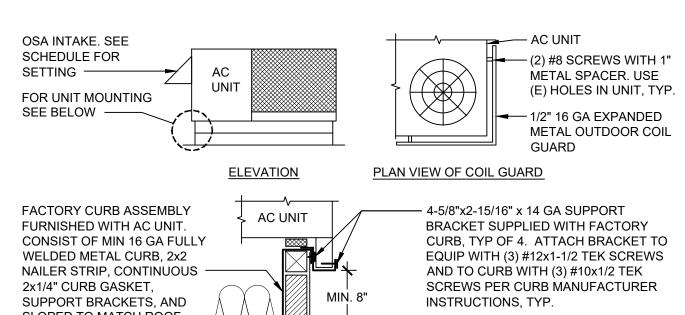


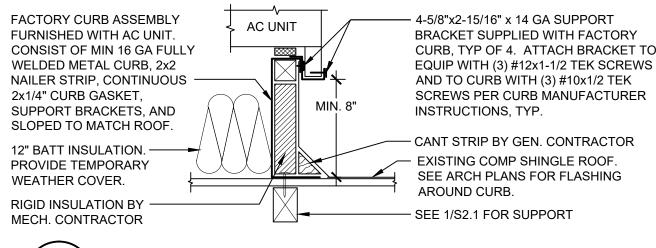




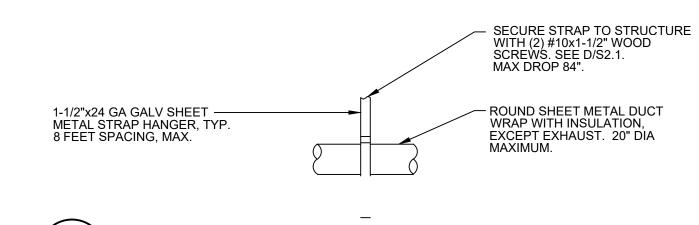
TYPICAL RETURN/EXHAUST AIR DEVICE - BRANCH DUCT

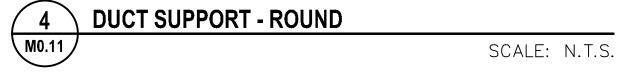
SCALE: N.T.S.











IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is at to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2022

Stamp:

PROFESSIONAL

S A L LING

S A L LING

S A L LING

EXP 6-30-24

Sheet Title:

DETAILS

5525

Sheet No.:

IVIU III
Release: DSA SUBMITTAL 11/28

NOBLE AVENUE ABANDON (E) HYDRONIC PIPING BELOW GRADE, TYP. – BLDG B SEE M2.21 DSA # 12126, 51547 SEE M2.11 DSA # 12126, 51547 (E)6" BLDG F SEE M2.61 DSA # 12126, 51547 ABANDON (E) HYDRONIC PIPING BELOW GRADE, TYP. – BLDG C SEE M2.31 DSA # 12126, 51547 ABANDON (E)
HYDRONIC PIPING
BELOW GRADE, TYP. (E)3" — ABANDON (E)
HYDRONIC PIPING
BELOW GRADE, TYP. ___(E)CHWS ____(E)CHWR ____ ABANDON (E) HYDRONIC PIPING BELOW GRADE, TYP. – BLDG G SEE M2.71 DSA # 12126, 51547 BLDG D SEE M2.41 DSA # 12126, 51547 ABANDON (E)
HYDRONIC PIPING
BELOW GRADE, TYP. _ _ '& _ _ _ _ _ // ABANDON (E) HYDRONIC PIPING BELOW GRADE, TYP. – (E)CHWS — (E)CHWR — BLDG H SEE M2.81 DSA # 12126, 51547 BLDG E SEE M2.51 DSA # 12126, 51547 (E)3/4"CW ---REMOVE (E) PIPING
TO 5 FEET OUTSIDE
EXTERIOR WALL
AND CAP, TYP.
FIELD VERIFY SIZE
AND LOCATION.
SAWCUT AND CENTRAL PLANT SEE M2.91 DSA # 51547 PATCH TO MATCH **MECHANICAL SITE PLAN**

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



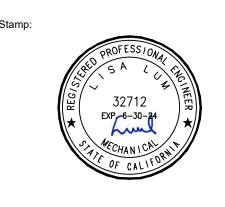
integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 É: design@somam.com integrateddesigns.com

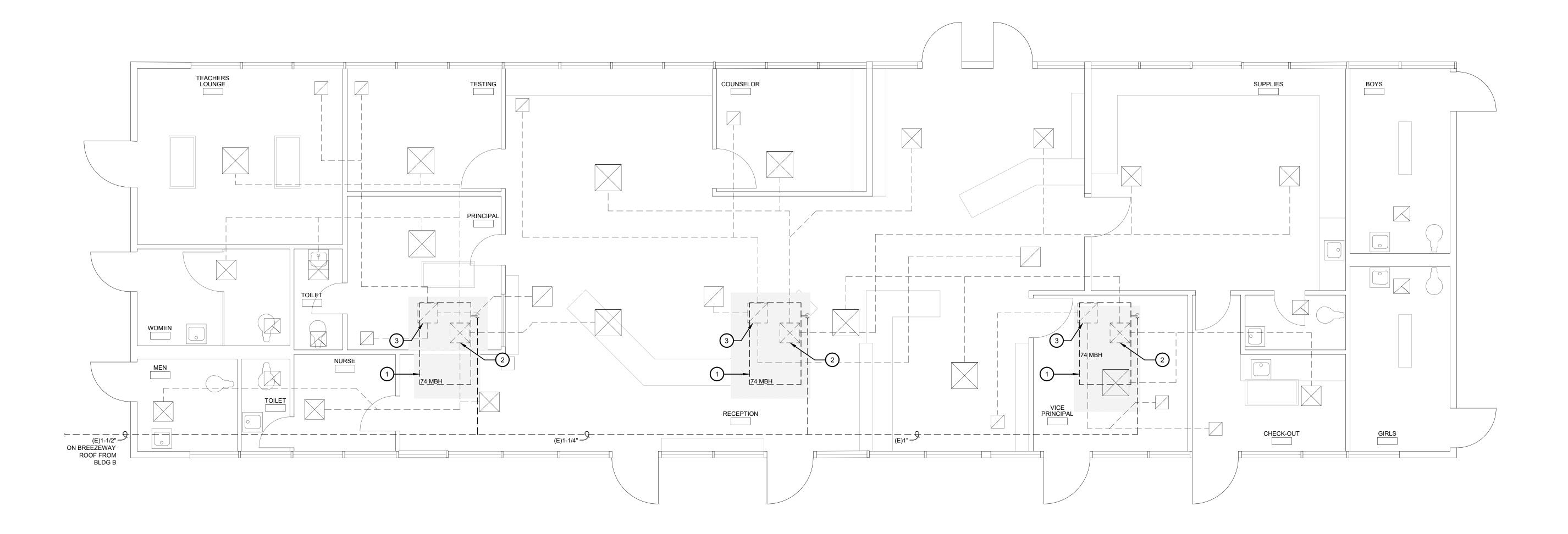
This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.



MECHANICAL SITE PLAN

5525

M1.11



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



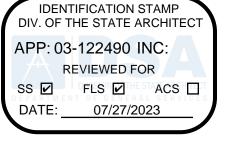


* KEY NOTES

- 1. REMOVE EXISTING GAS/ELEC PACKAGE UNIT ON ROOF AND REPLACE WITH NEW HEAT PUMP. EXISTING DUCTWORK, GRILLES, AND THERMOSTATS TO REMAIN. DISCONNECT GAS AND CAP. DISCONNECT CONDENSATE AND PREPARE FOR RE-CONNECTION TO NEW UNIT. PATCH OPENINGS TO MATCH EXISTING
- OPENINGS TO MATCH EXISTING

 2. RE-USE EXISTING 18x18 SUPPLY AIR PLENUM AND PREPARE FOR CONNECTION TO NEW UNIT. FIELD
- VERIFY SIZE AND LOCATION.

 3. RE-USE EXISTING 18x18 RETURN AIR PLENUM AND PREPARE FOR CONNECTION TO NEW UNIT. FIELD VERIFY SIZE AND LOCATION.
- 4. NEW AC UNIT ON ROOF. PROVIDE DUCT TRANSITIONS AS NEEDED FOR RE-CONNECTION TO EXISTING SUPPLY AIR PLENUM AND RETURN AIR PLENUM
- CONNECT ³/₄"CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND RE-CONNECT TO EXISTING CONDENSATE PIPING. RE-ROUTE AND PROVIDE TRANSITIONS AS NEEDED.
- 6. PERFORM TEST AND BALANCE AT THE UNIT.





BAKERSFIELD CITY SCHOOL

DISTRICT1300 BAKER STREET

BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



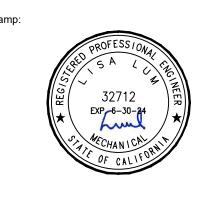
integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

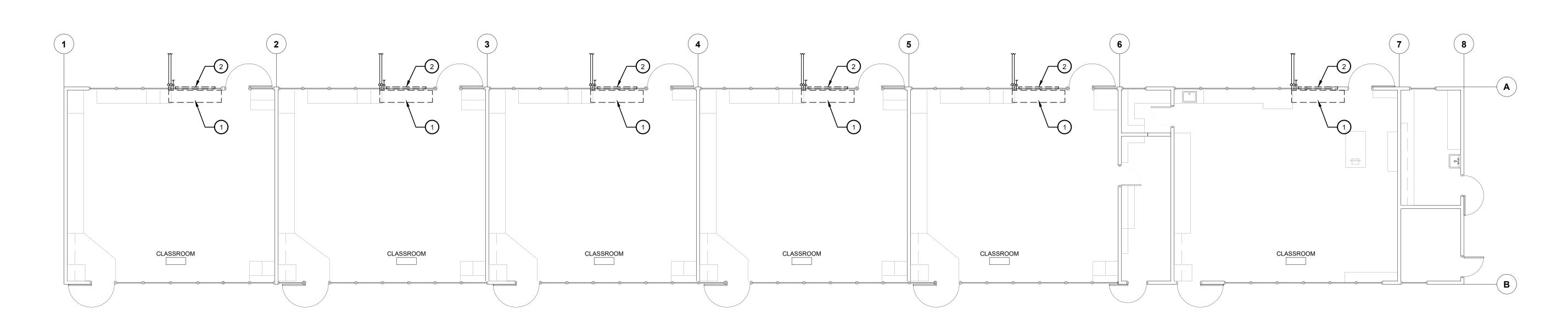
This document, the ideas and designs incorporated herein, as an instrun Professional Service is the property of Integrated Designs by SOMAM Inc ot to be used, in whole or in part for any other project without written auth



MECHANICAL PLAN - BLDG

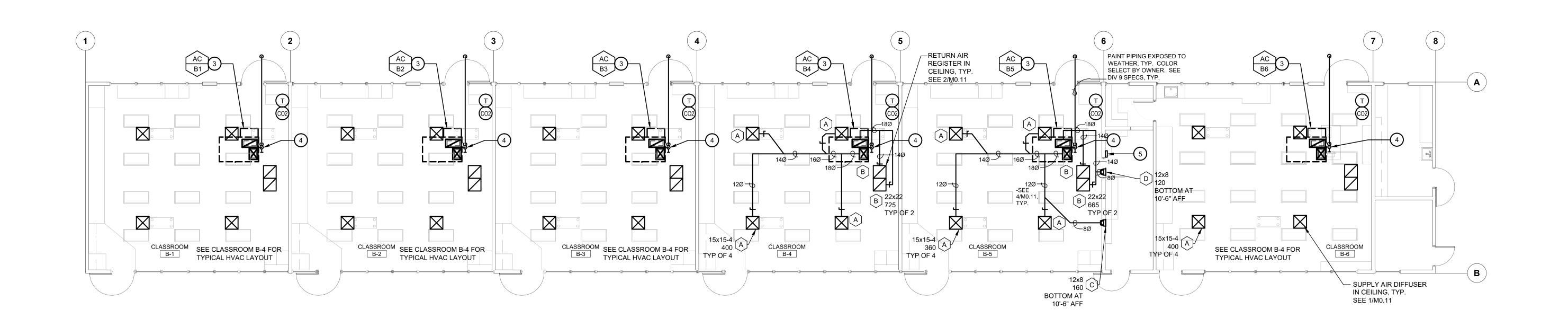
5525

M2.11



MECHANICAL PLAN - BLDG B - DEMO **HVAC REPLACEMENT**

SCALE: 1/8" = 1'

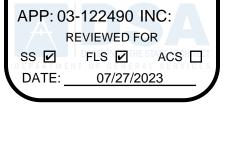




SCALE: 1/8" = 1'

KEY NOTES

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DISCHARGE TO ROOF GUTTER WITH AIR GAP.
- HVAC WIRELESS GATEWAY. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET AND ETHERNET CONNECTION.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



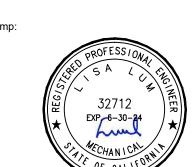
designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is



Sheet Title:

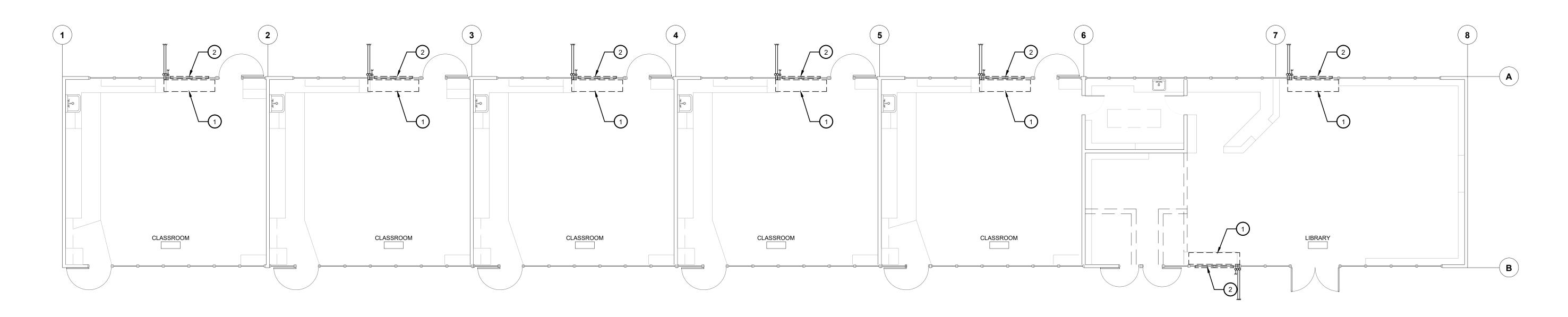
MECHANICAL

PLAN - BLDG

5525

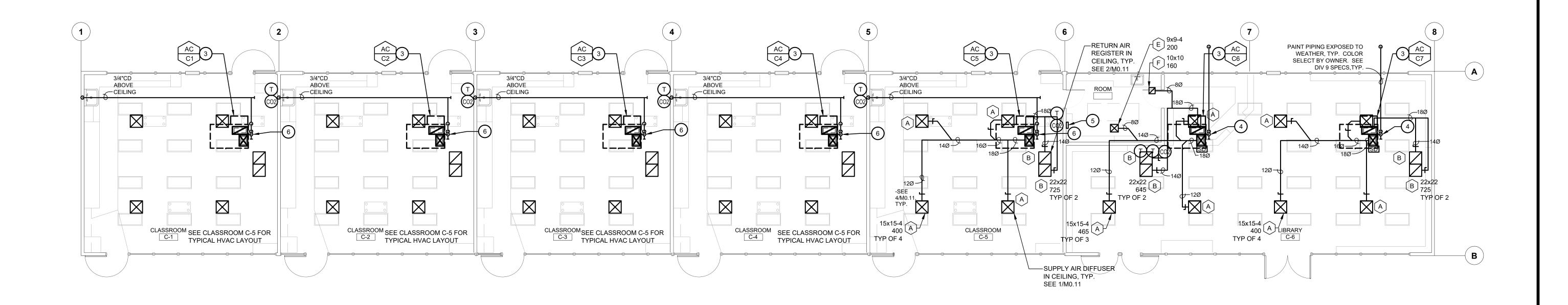
M2.21

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M2.21 MECHANICAL PLAN LISA LUI - BLDG B.dwg



MECHANICAL PLAN - BLDG C - DEMO **HVAC REPLACEMENT**

SCALE: 1/8" = 1'



MECHANICAL PLAN - BLDG C - IMPROVEMENTS

HVAC REPLACEMENT

SCALE: 1/8" = 1'

KEY NOTES

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DISCHARGE TO ROOF GUTTER WITH AIR GAP.
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH OPENINGS TO MATCH EXISTING.

IDENTIFICATION STAMP APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

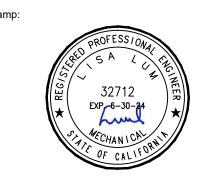
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrument of rofessional Service is the property of Integrated Designs by SOMAM Inc. and is



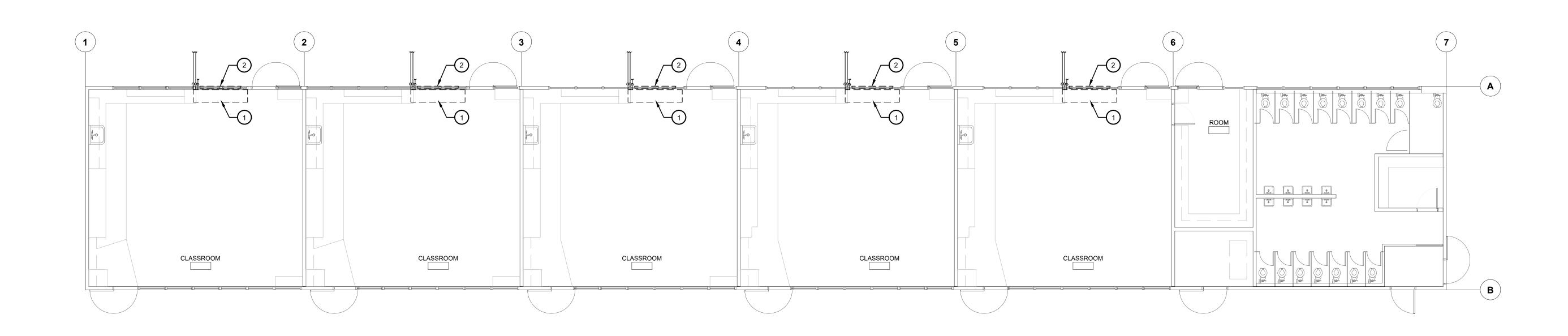


Sheet Title:

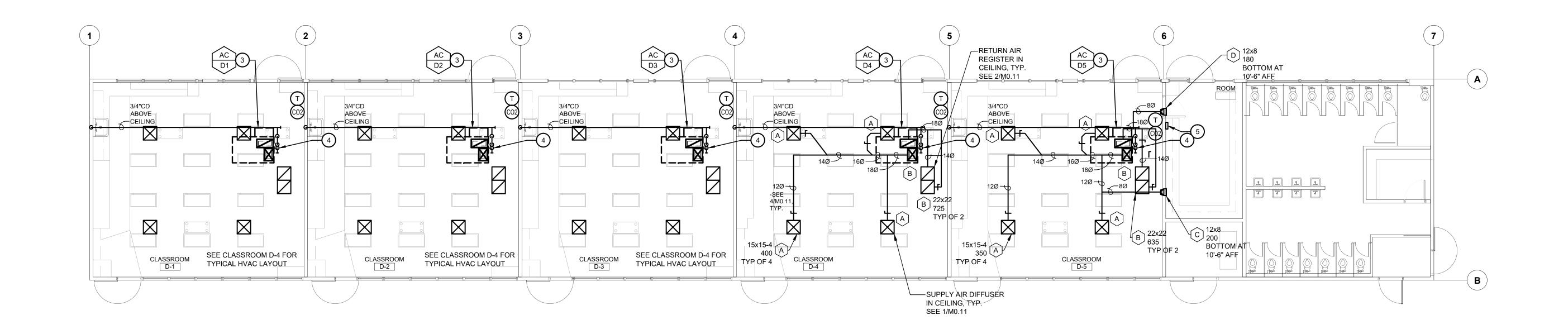
MECHANICAL PLAN - BLDG

5525

M2.31









KEY NOTES

- . REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU
 WALL. REMOVE EXISTING PIPING AND CAP BELOW
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- 4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH OPENINGS TO MATCH EXISTING.
- 5. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

Name:

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



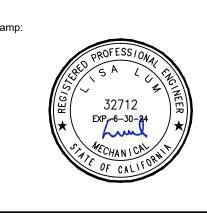
micgraice designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrun Professional Service is the property of Integrated Designs by SOMAM Inc ot to be used, in whole or in part for any other project without written auth



Sheet Title:

MECHANICAL

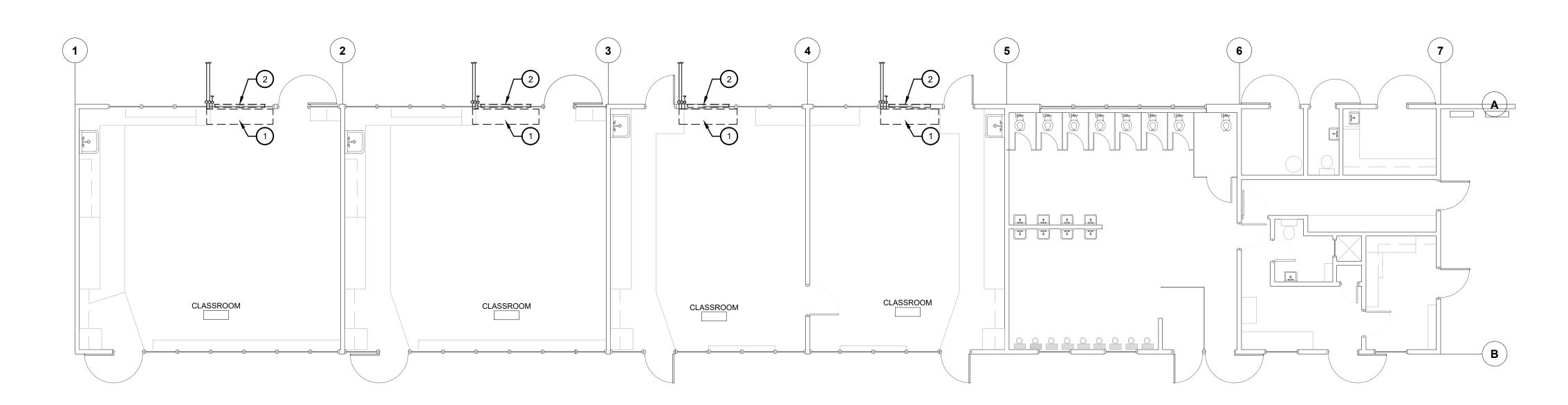
PLAN - BLDG D

5525

Sheet No.:

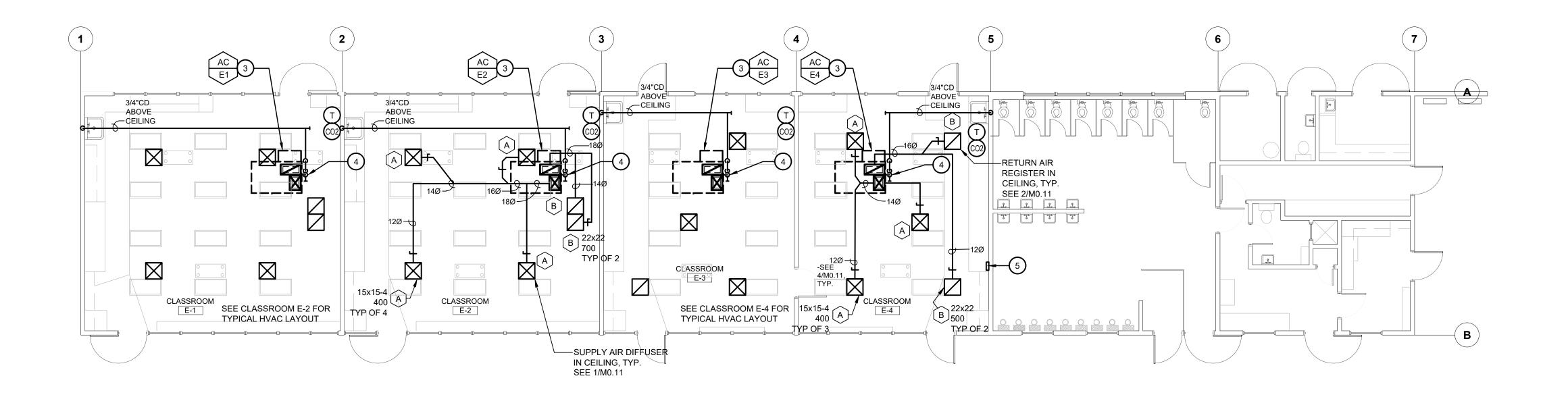
M2.41

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M2.41 MECHANICAL PLAN LISA LUM - BLDG D.dwg





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





KEY NOTES

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK, TYP. PATCH OPENINGS TO MATCH EXISTING.
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is



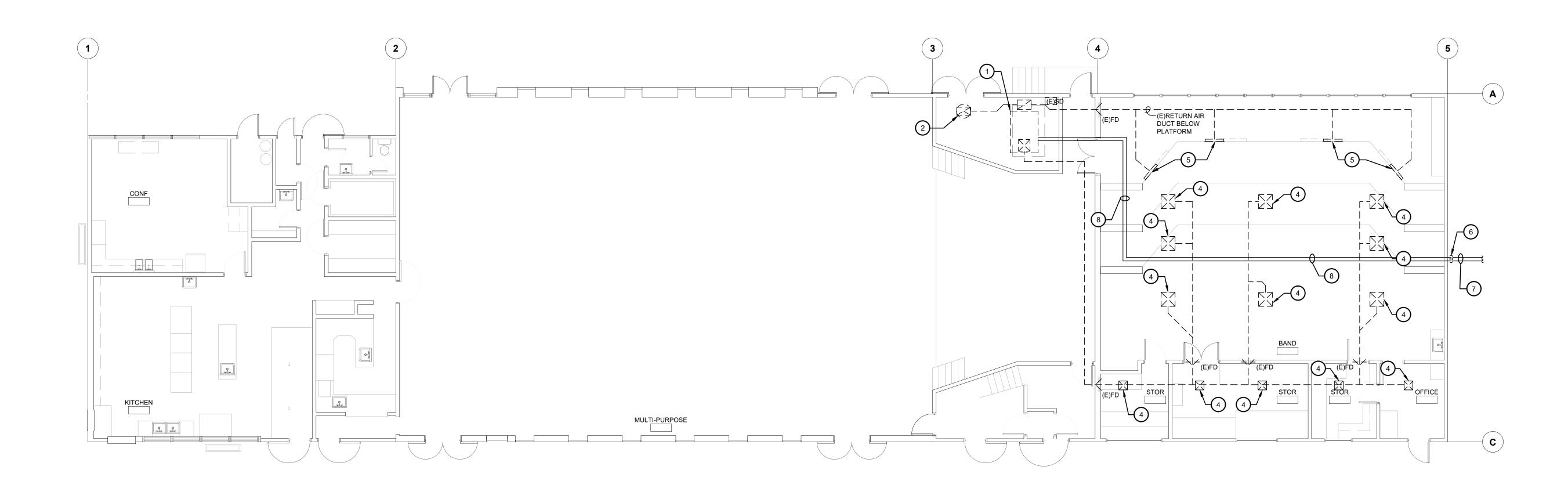
Sheet Title:

MECHANICAL PLAN - BLDG

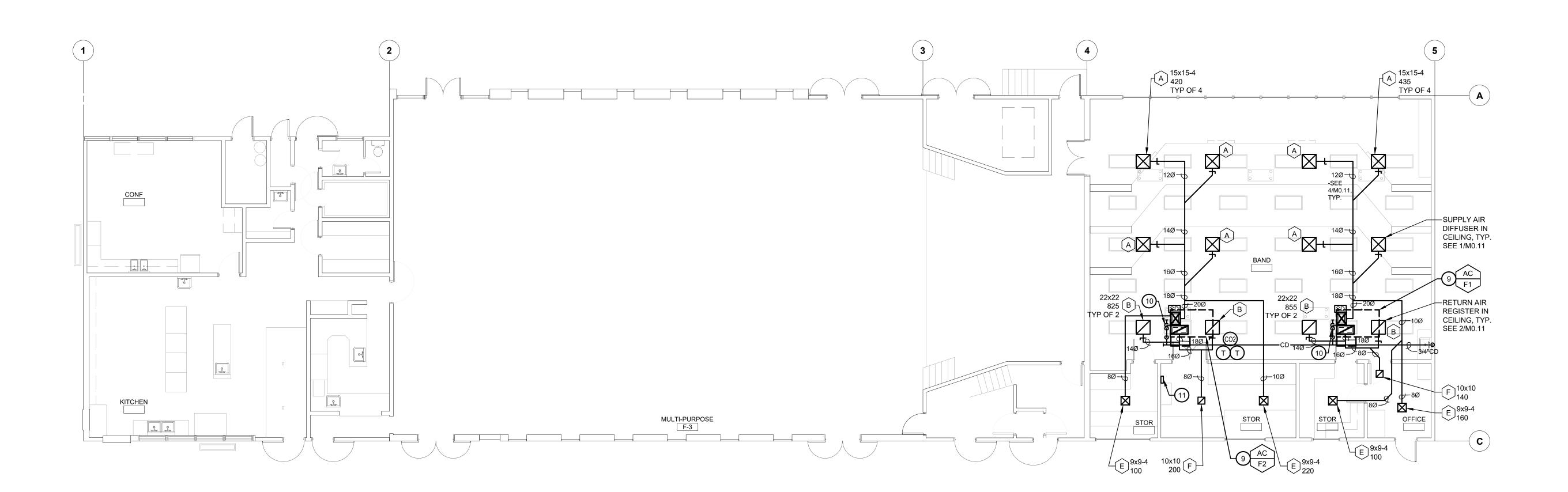
5525

M2.51

Release: DSA SUBMITTAL G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M2.51 MECHANICAL PLAN LISA LUN - BLDG E.dwg





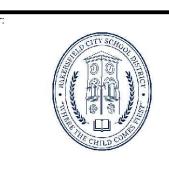




KEY NOTES

- REMOVE EXISTING FAN COIL AND ALL RELATED COMPONENTS, DUCTWORK, GRILLES, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING EXHAUST FAN ON ROOF AND ALL RELATED COMPONENTS, DUCTWORK, GRILLES, CONTROLS, ETC, TYP. PATCH OPENINGS TO MATCH
- . NOT USED
- REMOVE EXISTING SUPPLY AIR GRILLE AND DUCTWORK, TYP. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.
- REMOVE EXISTING RETURN AIR GRILLE AND DUCTWORK, TYP. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC PIPING RISER. FIELD VERIFY LOCATION. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP. FIELD VERIFY LOCATION. SAWCUT AND PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC PIPING ABOVE CEILING, TYP. FIELD VERIFY LOCATION.
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- . CONNECT 3/4"CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING. PAINT EXPOSED PIPING TO MATCH ADJACENT SURFACES. SEE DIV 09 SPECS.
- . HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL





BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc. **ARCHITECTURE**

ENGINEERING INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

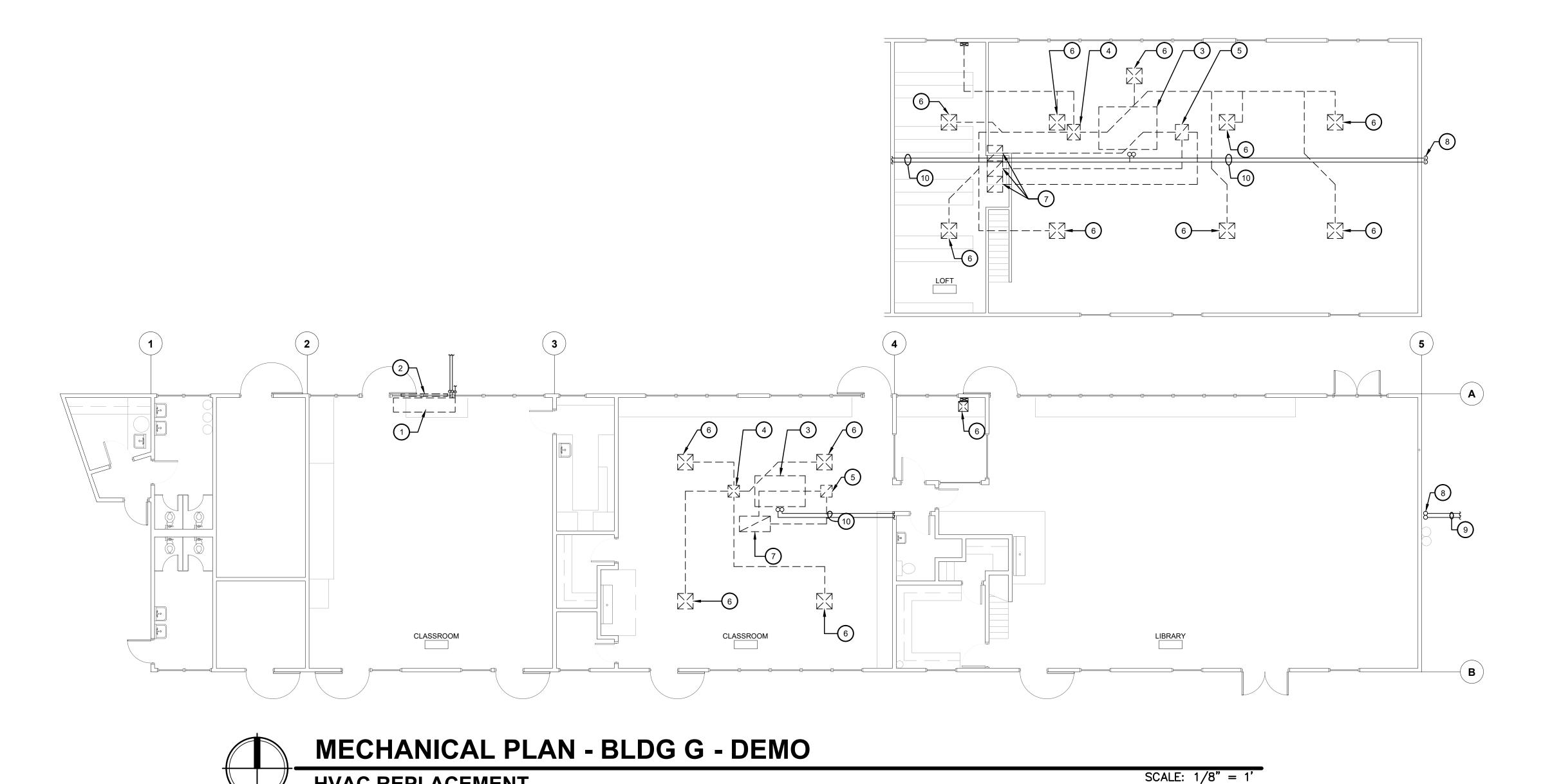


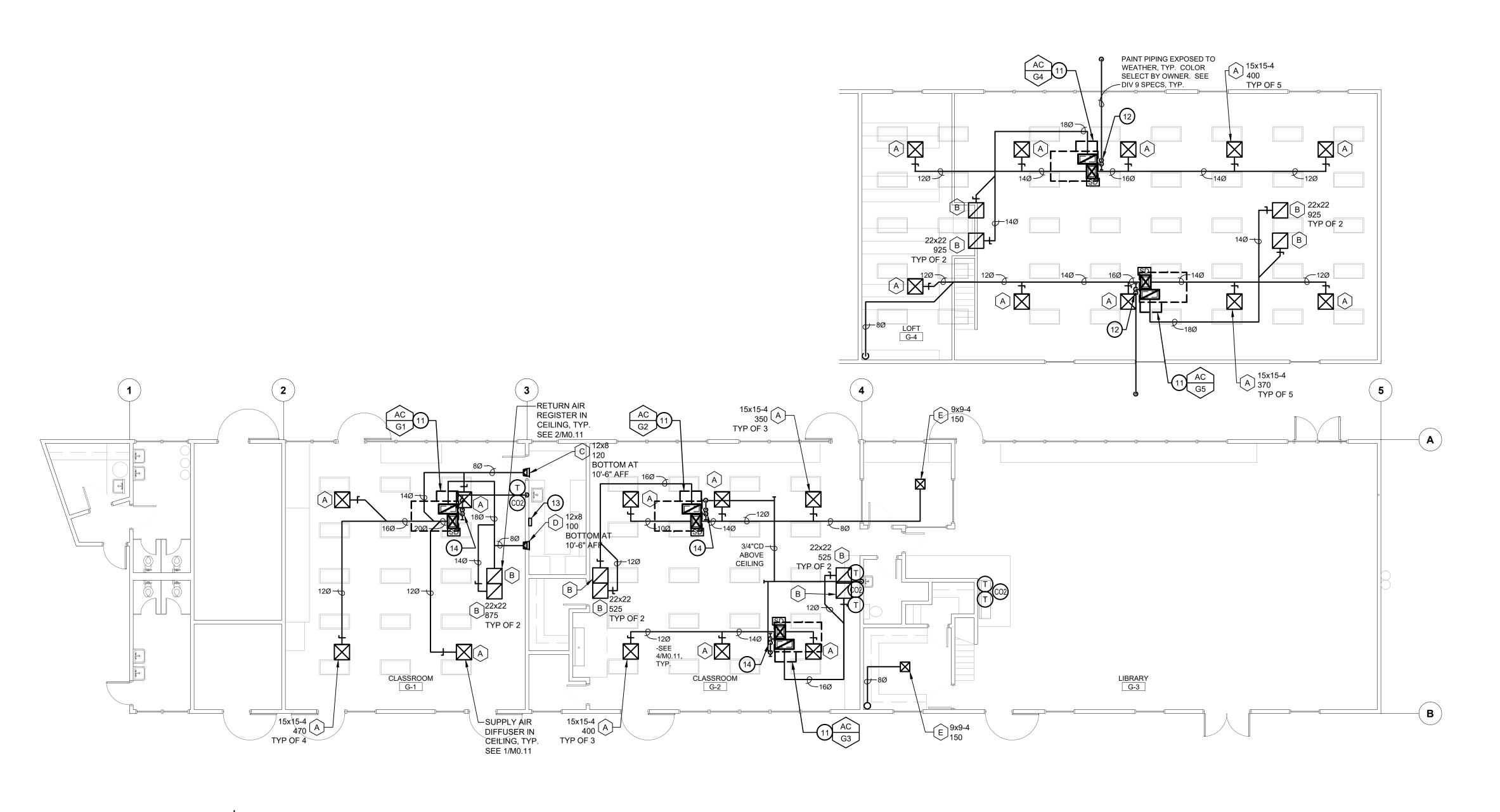
MECHANICAL PLAN - BLDG

5525

M2.61

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M2.61 MECHANICAL PLAN LISA LU - BLDG F.dwg





KEY NOTES

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW
- REMOVE EXISTING AIR HANDLING UNIT ON ROOF AND ALL RELATED COMPONENTS, DUCTWORK, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. PATCH
- REMOVE EXISTING SUPPLY DUCT THRU ROOF. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.
- REMOVE EXISTING RETURN DUCT THRU ROOF. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.

OPENINGS TO MATCH EXISTING.

- REMOVE EXISTING SUPPLY AIR GRILLE AND DUCTWORK. FIELD VERIFY LOCATION.
- REMOVE EXISTING RETURN AIR GRILLE AND DUCTWORK. FIELD VERIFY LOCATION.
- REMOVE EXISTING HYDRONIC PIPING RISER, TYP. FIELD VERIFY LOCATION. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP. SAWCUT AND PATCH OPENINGS TO MATCH EXISTING.
- 0. REMOVE EXISTING HYDRONIC ABOVE CEILING, TYP. FIELD VERIFY LOCATION.
- 1. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIY EXACT LOCATION. SEE
- 2. CONNECT 3/4"CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DISCHARGE TO ROOF GUTTER WITH AIR GAP.
- 3. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL
- 14. CONNECT 3/4"CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK/LAV, TYP. PATCH OPENINGS TO MATCH EXISTING.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗆

APP: 03-122490 INC:

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

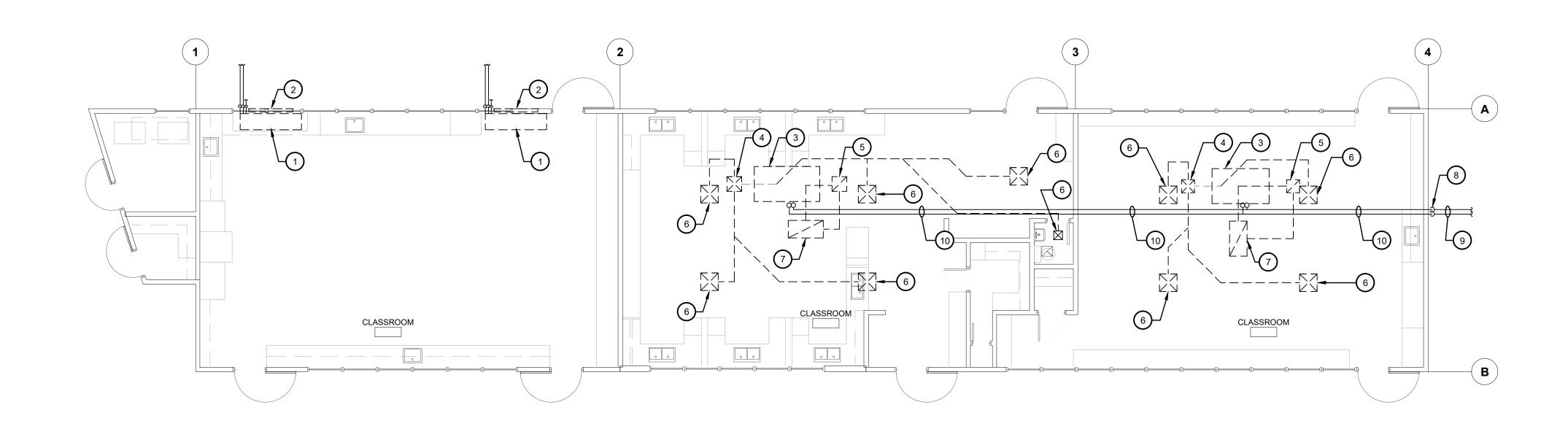


MECHANICAL PLAN - BLDG

5525

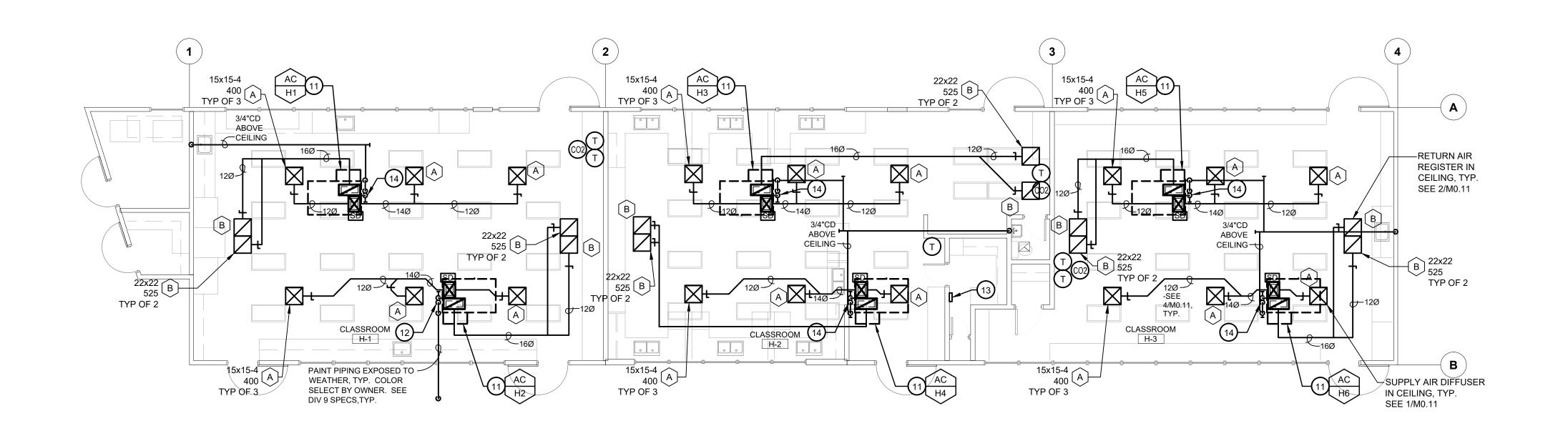
M2.71elease: DSA SUBMITTAL

HVAC REPLACEMENT



MECHANICAL PLAN - BLDG H - DEMO **HVAC REPLACEMENT**

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



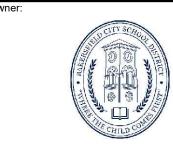


HVAC REPLACEMENT

KEY NOTES

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP,
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. REMOVE EXISTING PIPING AND CAP BELOW GRADE, TYP.
- REMOVE EXISTING AIR HANDLING UNIT ON ROOF AND ALL RELATED COMPONENTS, DUCTWORK, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. PATCH OPENINGS TO MATCH
- REMOVE EXISTING SUPPLY DUCT THRU ROOF. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.
- REMOVE EXISTING RETURN DUCT THRU ROOF. FIELD VERIFY LOCATION. PATCH OPENING TO MATCH EXISTING.
- REMOVE EXISTING SUPPLY AIR GRILLE AND DUCTWORK. FIELD VERIFY LOCATION.
- REMOVE EXISTING RETURN AIR GRILLE AND DUCTWORK. FIELD VERIFY LOCATION.
- REMOVE EXISTING HYDRONIC PIPING RISER, TYP. FIELD VERIFY LOCATION. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING HYDRONIC PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP. SAWCUT AND PATCH TO MATCH
- 10. REMOVE EXISTING HYDRONIC PIPING ABOVE CEILING, TYP. FIELD VERIFY LOCATION.
- 1. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- 12. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11 AND DISCHARGE TO ROOF GUTTER WITH AIR GAP.
- 13. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
- 14. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11, DROP DOWN THRU ROOF AND DISCHARGE TO TAILPIECE OF SINK/LAV, TYP. PATCH OPENINGS TO MATCH EXISTING.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrument of rofessional Service is the property of Integrated Designs by SOMAM Inc. and is



MECHANICAL PLAN - BLDG

5525

M2.81 elease: DSA SUBMITTAL 11/28/22

G:\2022frs\22-5525 BCSD Washington MS\Sheets\5525-M2.81 MECHANICAL PLAN LISA LUI - BLDG H.dwg

NOTE:

CENTRAL PLANT SHALL REMAIN IN OPERATION UNTIL ALL ASSOCIATED AIR HANDLING UNITS HAVE BEEN

KEY NOTES

 REMOVE EXISTING AIR COOLED CHILLER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.

2. REMOVE EXISTING ICE STORAGE TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES

SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.

3. REMOVE EXISTING HYDRONIC BOILER AND ALL

SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.

REMOVE EXISTING PUMP AND ALL RELATED

RELATED COMPONENTS, PIPING, ETC, TYP.

5. REMOVE EXISTING EXPANSION TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.

COMPONENTS, PIPING, CONTROLS, ETC, TYP.

- 6. REMOVE EXISTING AIR SEPARATOR AND ALL
- RELATED COMPONENTS, PIPING, ETC, TYP.

 7. REMOVE EXISTING PIPING AND SUPPORT, TYP.
- 8. REMOVE EXISTING PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP. FIELD VERIFY SIZE AND LOCATION. SAWCUT AND PATCH TO MATCH EXISTING.
- SALVAGE EXISTING HVAC CONTROL PANEL AND DELIVER TO OWNER

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2022

o:

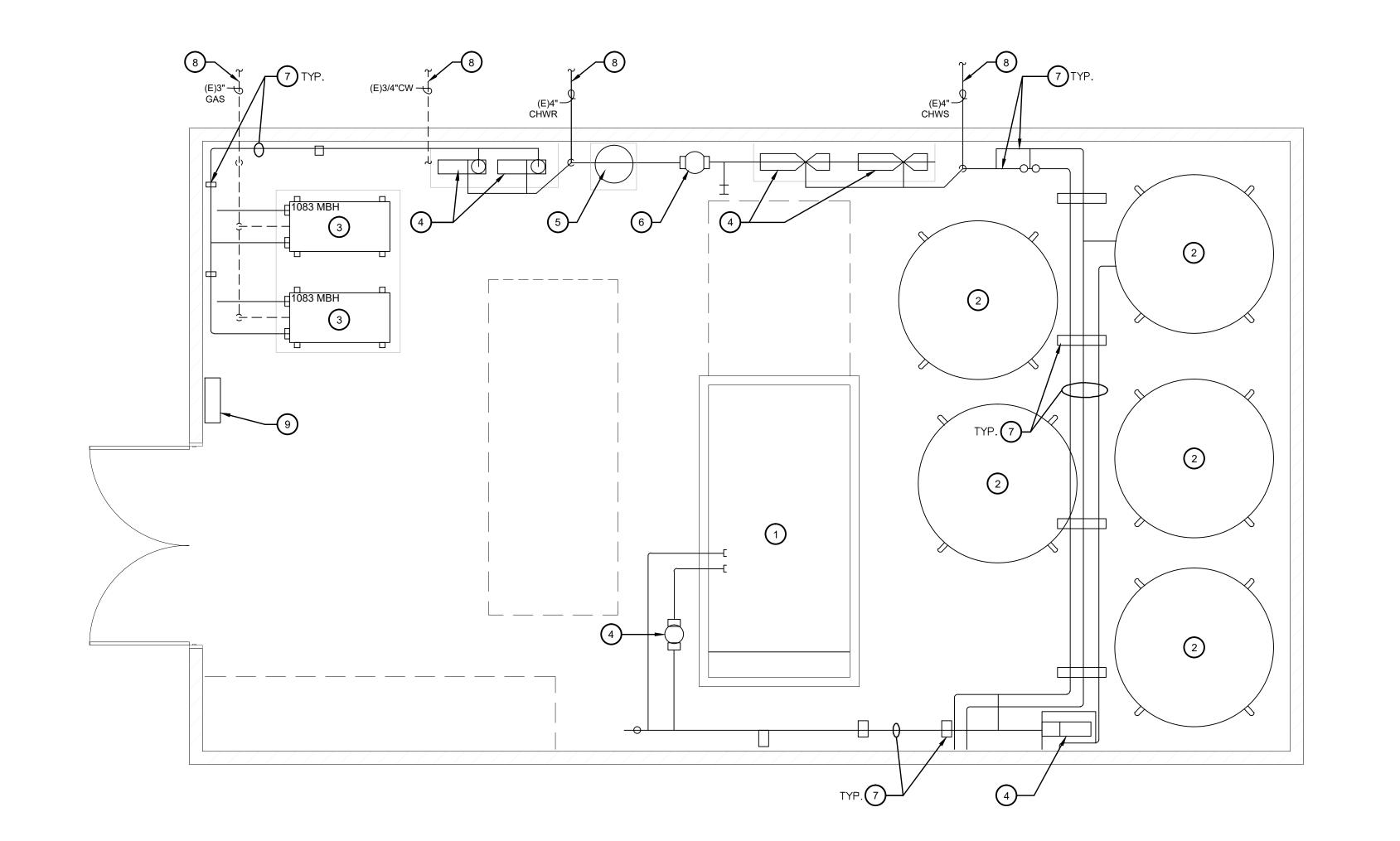


MECHANICAL
PLAN CENTRAL
PLANT

5525

N/2 04

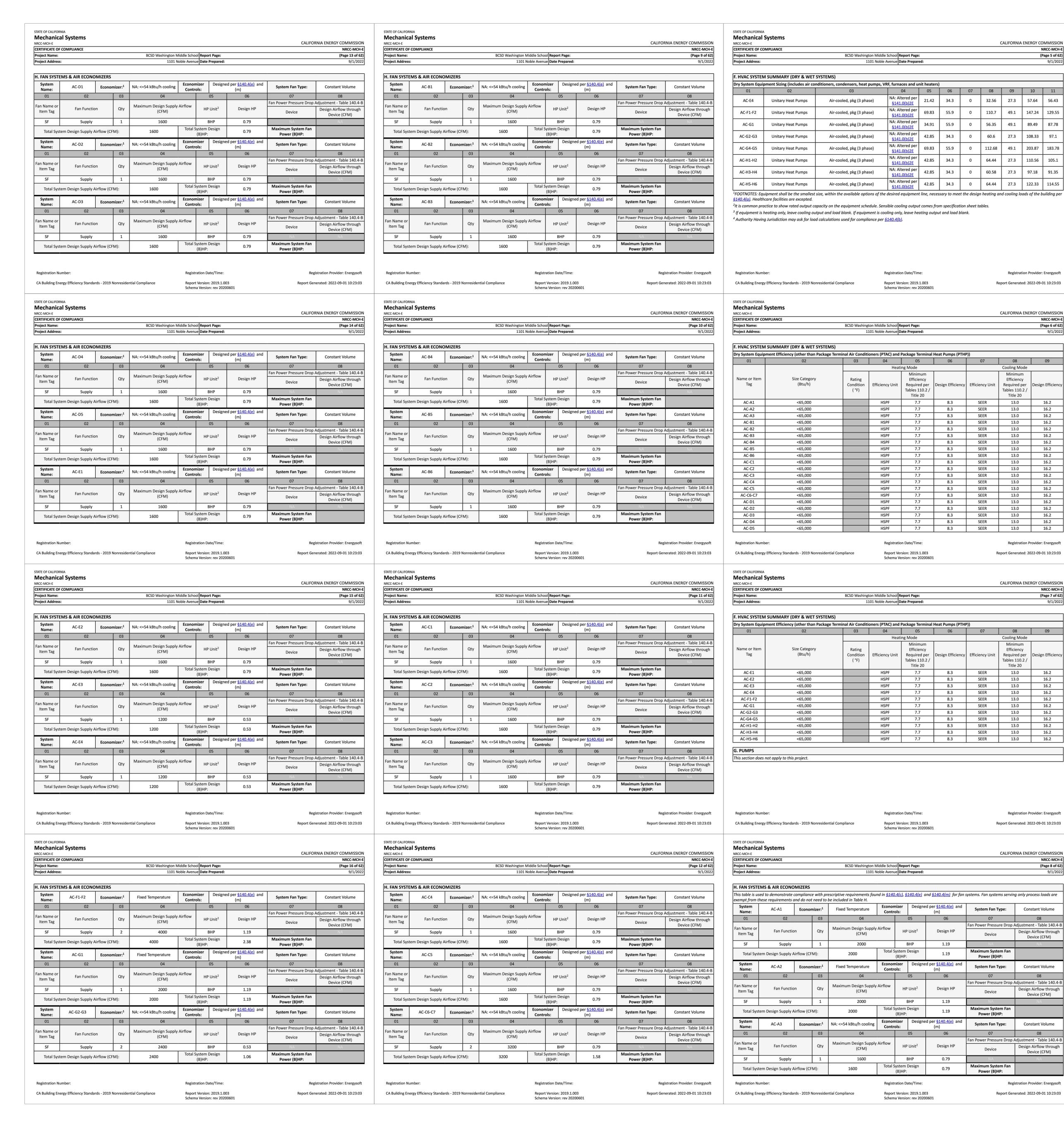
MS\Sheets\5525-M2.91 MECHANICAL PLAN LISA LUM 6/6/23



MECHANICAL PLAN - CENTRAL PLANT

HVAC REPLACEMENT

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



STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E his document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in <u>§140.4</u>, or <u>§141.0(b)2</u> for alterations. BCSD Washington Middle School Report Page:

1101 Noble Avenue Date Prepared: A. GENERAL INFORMATION 33195 Climate Zone 06 # of Stories (Habitable Above Grade Office (B) Retail (M) Non-refrigerated Warehouse (S) Hotel/ Motel Guest Rooms (R-1 Healthcare Facility (I High-Rise Residential (R-2/R-3) PROJECT SCOPE his table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or <u>§141.0(b)2</u> for alterations. Wet System Componen Heating Air System Water Economize Air Economizer Pumps Electric Resistance Heat System Piping Ductwork (existing to remain, altered or new) ∀entilation Chillers Boilers ☐ Zonal Systems/ Terminal Boxes

Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03 Schema Version: rev 20200601

Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANC NRCC-MCH-E (Page 2 of 62) 1101 Noble Avenue Date Prepared: Project Address: COMPLIANCE RESULTS

ible C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES OT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance. §120.1 §110.2(e)2 Compliance Result §140.4(k) §140.4(c), §140.4(d) §140.4(e) Mandatory Measures Compliance (See Table Q for Details

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

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

Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03

Schema Version: rev 20200601

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANC 1101 Noble Avenue Date Prepared: Proiect Address:

HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS is table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in \$110.1 and \$110.2(a) and prescriptive requirements found in \$140.4(c 140.4(b) and §140.4(k) or §141.0(b)2 for alterations. y System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) Equipment Sizing per Mechanical Schedule (kBtu/h) Heating Output^{2,3} Cooling Output^{2,3} Load Calculation: Name or Item Equipment Category per uipment Type per Tables 110.2 / T Available¹ Tables 110.2 Per Design (kBtu/h) Rated (kBtu/h) Output (kBtu/h) (kBtu/h) Rated (kBtu/h) Sensible Per Design (kBtu/h) Rated (kBtu/h) Rated (kBtu/h) Cooling Load (kBtu/h) §140.4(a) (kBtu/h) Load (kBtu/h) NA: Altered per l Air-cooled, pkg (3 phase) Unitary Heat Pumps 141.0(b)2E 53.98 49.1 75.61 82.99 Unitary Heat Pumps Air-cooled, pkg (3 phase) §141.0(b)2E AC-A3 41.62 36.9 50.37 86.06 Unitary Heat Pumps Air-cooled, pkg (3 phase) AC-B1 Unitary Heat Pumps Air-cooled, pkg (3 phase) A: Altered per | AC-B2 Unitary Heat Pumps Air-cooled, pkg (3 phase) 42.42 36.9 76.87 74.4 L41.0(b)2E IA: Altered per l AC-B3 Unitary Heat Pumps Air-cooled, pkg (3 phase) 42.42 36.9 76.87 74.4 141.0(b)2E Unitary Heat Pumps Air-cooled, pkg (3 phase) §141.0(b)2E AC-B5 44.06 36.9 84.56 83.93

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

Mechanical Systems

CERTIFICATE OF COMPLIANCE

AC-B6

STATE OF CALIFORNIA

AC-C1

AC-C2

AC-C3

AC-C4

AC-C6-C7

AC-D2

AC-D4

AC-D5

AC-E1

AC-E2

Registration Number

Unitary Heat Pumps

Unitary Heat Pumps

. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Unitary Heat Pumps

Unitary Heat Pumps

Unitary Heat Pumps

Unitary Heat Pumps

Unitary Heat Pumps

Unitary Heat Pumps

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA

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

BCSD Washington Middle School Report Page:

41.0(b)2E

IA: Altered per l

IA: Altered per

L41.0(b)2E

A: Altered per

§141.0(b)2E

NA: Altered per l

IA: Altered per

IA: Altered per

§141.0(b)2E

NA: Altered per I

§141.0(b)2E

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

28.48

141.0(b)2E

Air-cooled, pkg (3 phase)

Air-cooled, pkg (3 phase)

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

Air-cooled, pkg (3 phase)

Registration Provider: Energysoft Report Generated: 2022-09-01 10:23:03

42.68 36.9 108.73 98.02

42.42 36.9 76.87 74.4

42.42 36.9 76.87 74.4

42.42 36.9 76.87 74.4

42.42 36.9 76.87 74.4

42.42 36.9 76.87 74.4

43.94 36.9 78.66 77.18

Registration Provider: Energysoft

Report Generated: 2022-09-01 10:23:03

0 | 42.87 | 36.9 | 89.26 | 84.22

0 42.63 36.9 96.87 89.98

0 30.79 27.3 55.89 53.73

0 42.63 36.9 96.9 90.02

42.42 36.9

CALIFORNIA ENERGY COMMISSION (Page 4 of 62

> is document, the ideas and designs incorporated herein, as an instrument essional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization © COPYRIGHT 2022

Stamp: 32712 EXP_6-30-24

Sheet Title:

TITLE 24 DOCS

M3.01

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:

DATE: 07/27/2023

CITY SCHOOL

1300 BAKER STREET BAKERSFIELD, CA 93305

WASHINGTON **MIDDLE SCHOOL**

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



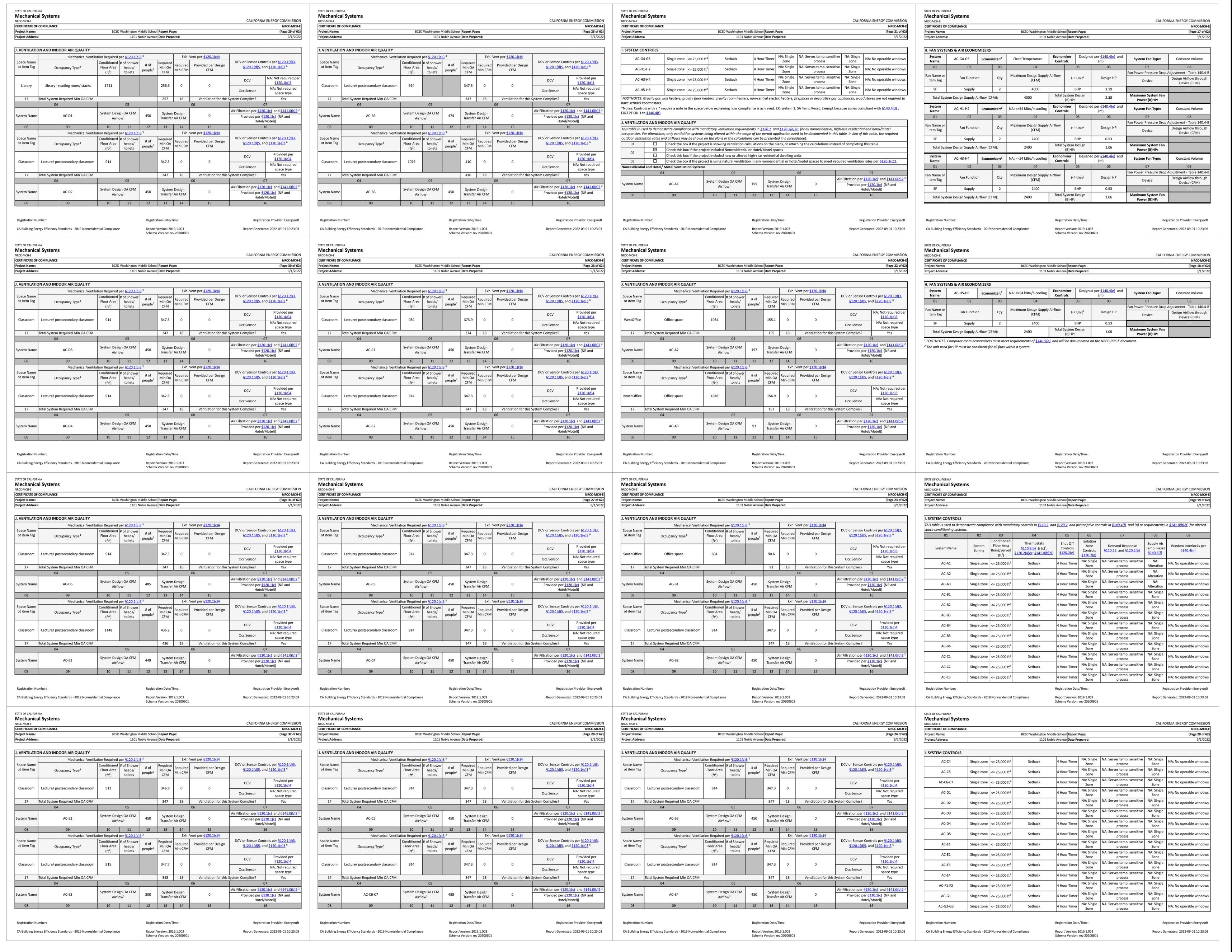
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

Release: DSA SUBMITTAL



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

NVAC KEPLACEMIENT

washington MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887

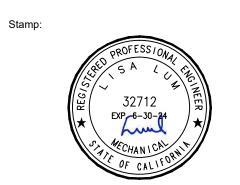
E: design@somam.com

integrateddesigns.com

Ownership of Documents

in is document, the ideas and designs incorporated herein, as an inst

his document, the ideas and designs incorporated herein, as an instrument of ofessional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization © COPYRIGHT 2022



Sheet Title:

TITLE 24 DOCS

5525

Sheet No.:

Release: DSA SUBMITTAL 11/2

STATE OF CALIFORNIA Mechanical Systems	state of california Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems
NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 45 of 62)	NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Report Page: (Page 41 of 62)	NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Report Page: (Page 37 of 62)	NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 33 of 62)
Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022
L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-C6-C7 Duct leakage testing triggered for these systems? No	L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-B4 Duct leakage testing triggered for these systems? No	J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per §120.1(c)3 Exh. Vent per §120.1(c)4	J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per §120.1(c)3 Exh. Vent per §120.1(c)4
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.	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.	Space Name of item Tag Occupancy Type ⁴ Conditioned Floor Area (ft ²) violets Floor Area (ft ²) Provided per Design CFM Floor Area (ft ²) Floo	Space Name of item Tag Occupancy Type ⁴ Conditioned # of Shower heads/ toilets floor Area (ft²) Conditioned # of Shower heads/ toilets Floor Area (ft²) Floor
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	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: Outdoors	Classroom Lecture/ postsecondary classroom 1201 456.4 0 0 Provided per §120.1(d)4 NA: Not required	Classroom Lecture/ postsecondary classroom 682 259.2 0 0 Provided per \$120.1(d)4 NA: Not required
In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space	17 Total System Required Min OA CFM 456 18 Ventilation for this System Complies? Yes	17 Total System Required Min OA CFM 259 18 Ventilation for this System Complies? Yes
In other unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	In other unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system ² Air filtration requirements apply to the following three system types per \$120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing	O4 05 06 07 System Name AC-E4 System Design OA CFM Air Filtration per \$120.1(c) and \$141.0(b)2 2 Provided per \$120.1(c) (NR and Provide
The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. 17 Yes Duct system shall be sealed in acordance with the California Mechanical Code	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. 17 Yes Duct system shall be sealed in acordance with the California Mechanical Code	outside air to occupiable space. ³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.	Ac-L4 Airflow ¹ Transfer Air CFM Provided per §120.1(c) (NR and Hotel/Motel)) 08 09 10 11 12 13 14 15 16
The answers to the questions below apply to the following duct systems: AC-D1 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities	The answers to the questions below apply to the following duct systems: AC-B5 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities	 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. 	Space Name ot item Tag Occupancy Type ⁴ Mechanical Ventilation Required per §120.1(c)3 3 Exh. Vent per §120.1(c)4 Conditioned # of Shower heads/ toilets floor Area (ft²) toilets Exh. Vent per §120.1(c)4 Required Min OA CFM CFM DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 6
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:	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:	Examples of spaces which require lighting occupancy sensors include offices 250ft ² or smaller, multipurpose rooms less than 1,000 ft ² , 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).	(ft²) toilets people CFM Min CFM CFM DCV Provided per \$120.1(d)4
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	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	K. TERMINAL BOX CONTROLS This section does not apply to this project.	Classroom Lecture/ postsecondary classroom 682 259.2 0 0 Occ Sensor NA: Not required space type
requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces	requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces	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 testing.	17 Total System Required Min OA CFM 259 18 Ventilation for this System Complies? Yes 04 05 06 07 Air Filtration per §120.1(c) and §141.0(b)2 2
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	Duct Leakage Sealing	System Name AC-F1-F2 System Design Airflow¹ 701 System Design Transfer Air CFM 0 Air Hutdon per \$120.1(c) (NR and Hotel/Motel)) 08 09 10 11 12 13 14 15 16
17 Yes Duct system shall be sealed in acordance with the California Mechanical Code	17 Yes Duct system shall be sealed in acordance with the California Mechanical Code		05 10 11 12 13 14 15 10
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03
Schema Version: rev 20200601 STATE OF CALIFORNIA	Schema Version: rev 20200601 STATE OF CALIFORNIA	Schema Version: rev 20200601 STATE OF CALIFORNIA	Schema Version: rev 20200601 STATE OF CALIFORNIA
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-MCH-E	Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E	Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E	Mechanical Systems NRCC-MICH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E NRCC-MCH-E
Project Name: BCSD Washington Middle School Report Page: (Page 46 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Name: BCSD Washington Middle School Report Page: (Page 42 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Name: BCSD Washington Middle School Report Page: (Page 38 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Name: BCSD Washington Middle School Report Page: (Page 34 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022
L. DISTRIBUTION (DUCTWORK and PIPING)	L. DISTRIBUTION (DUCTWORK and PIPING)	L. DISTRIBUTION (DUCTWORK and PIPING)	J. VENTILATION AND INDOOR AIR QUALITY
The answers to the questions below apply to the following duct systems: AC-D2 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.	The answers to the questions below apply to the following duct systems: AC-B6 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.	The answers to the questions below apply to the following duct systems: AC-A1 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.	Space Name ot item Tag Mechanical Ventilation Required per \$120.1(c)3 3
13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:	13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:	13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:	(ft²) toilets people CFM Will CFW DCV Provided per \$120.1(d)4
Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces	Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	Band Lecture/ postsecondary classroom 1870 710.6 0 0 Occ Sensor NA: Not required space type 17 Total System Required Min OA CFM 711 18 Ventilation for this System Complies? Yes
In an unconditioned crawl space In other unconditioned spaces The search of the project includes extending an existing dust extent which is constructed, insulated as coaled with achoeses.	In an unconditioned crawl space In other unconditioned spaces The seems of the project includes extending an existing duet system, which is constructed, insulated as scaled with achostos.	In an unconditioned crawl space In other unconditioned spaces The sense of the project includes outending an existing duet system, which is constructed, insulated as scaled with ashestes.	04 05 06 07 Air Filtration per \$120.1(c) and \$141.0(b)2 ²
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	System Name AC-G1 System Design OA CFM Airflow¹ 450 System Design Transfer Air CFM 0 Provided per §120.1(c) (NR and Hotel/Motel)) 08 09 10 11 12 13 14 15 16
17 Yes Duct system shall be sealed in acordance with the California Mechanical Code The answers to the questions below apply to the following duct systems: AC-D3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities	The answers to the questions below apply to the following duct systems: AC-C1 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities	The answers to the questions below apply to the following duct systems: AC-A2 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities	Space Name Mechanical Ventilation Required per §120.1(c)3 3 Exh. Vent per §120.1(c)4 Conditioned # of Shower # of Required Requ
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.	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.	12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.	ot item Tag Occupancy Type ⁴ Floor Area (ft ²) toilets People ⁵ Min OA CFM Min CFM CFM Provided per Design S120.1(d)5, and S120.1(e)3 6
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: 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	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: 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	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	Classroom Lecture/ postsecondary classroom 1104 419.5 0 0 0 Sensor Space type
requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces	requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces	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	17 Total System Required Min OA CFM 420 18 Ventilation for this System Complies? Yes 04 05 06 07
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification	System Name AC-G2-G3 System Design OA CFM Airflow ¹ 480 System Design Transfer Air CFM O Air Filtration per §120.1(c) and §141.0(b)2 Provided per §120.1(c) (NR and Hotel/Motel))
and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. Yes Duct system shall be sealed in acordance with the California Mechanical Code	and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. Yes Duct system shall be sealed in acordance with the California Mechanical Code	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	08 09 10 11 12 13 14 15 16
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03
Schema Version: rev 20200601	Schema Version: rev 20200601	Schema Version: rev 20200601	Schema Version: rev 20200601
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION
Mechanical Systems	Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems	Mechanical Systems
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: CALIFORNIA ENERGY COMMISSION REPORT Page: (Page 47 of 62) 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING)	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: CALIFORNIA ENERGY COMMISSION REPORT Page: (Page 43 of 62) Project Address: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING)	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: CALIFORNIA ENERGY COMMISSION Report Page: (Page 39 of 62) Project Address: Date Prepared: 9/1/2022	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: CALIFORNIA ENERGY COMMISSION Report Page: (Page 35 of 62)
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: CHIFORNIA ENERGY COMMISSION REPORT Page: (Page 47 of 62) Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-D4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: BCSD Washington Middle School Date Prepared: Date Prepared: CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Project Address: (Page 43 of 62) Page 43 of 62) Project Address: Date Prepared: SCD Washington Middle School Date Prepared: No Date Prepared: No The answers to the questions below apply to the following duct systems: AC-C2 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 39 of 62) Project Address: L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 35 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per §120.1(c)3 3 Exh. Vent per §120.1(c)4 Space Name ot item Tag Occupancy Type4 Conditioned # of Shower of Heads/ He
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: Project Address: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Project Address: CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Project Address: (Page 47 of 62) Project Address: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-D4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: (Page 43 of 62) Project Address: L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-C2 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	Mechanical Systems NRCC-MICH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: NRCC-MCH-E Project Address: 1,015TRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Space Name ot item Tag Occupancy Type ⁴ CALIFORNIA ENERGY COMMISSION Report Page: (Page 35 of 62 Project Address: 1101 Noble Avenue Date Prepared: Space Name ot item Tag Occupancy Type ⁴ Conditioned Floor Area (ft²) Floor Area (ft²
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: CL. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-D4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: Project Address: SCALIFORNIA ENERGY COMMISSION Report Page: (Page 43 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-C2 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue BCSD Washington Middle School Report Page: (Page 39 of 62) Project Address: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Mashington
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: (Page 47 of 62) Project Address: L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-D4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In other unconditioned crawl space In other unconditioned spaces	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: BCSD Washington Middle School Report Page: (Page 43 of 62) Project Address: Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-C2 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Unutdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: NRCC-MCH-E (Page 39 of 62) Project Address: L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In an unconditioned crawl space In other unconditioned spaces	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Address: Date Prepared: Space Name of Item Tag Occupancy Type ⁴ Classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom 1281 ABA BCSD Washington Middle School Report Page: Date Prepared: Project Address: Date Prepared: DEV or Sensor Controls per §120.1(c)4 Space Name of Item Tag Occupancy Type ⁴ Classroom Lecture/ postsecondary classroom DCV Provided per S120.1(d)3, §120.1(d)5, and §120.1(e)3 6 DCV Provided per S120.1(d)4 Occ Sensor NA: Not required space type 17 Total System Required Min OA CFM ABA B Ventilation for this System Complies? Yes O4 O5 O6 O7 Air Filtration per §120.1(c) and §141.0(b)2 2
NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 47 of 62) Project Address: No L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-D4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Duct doors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In other unconditioned crawl space In other unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	Mechanical Systems NRCC-MCHE CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct system serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In an unconditioned crawl space In an unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos.	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: NRCC-MCH-E Project Address: L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140,3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In on their unconditioned spaces In other unconditioned spaces The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	Mechanical Systems NRCC-MCH-E CERTICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle M
NRCC-MCH-E CERTIFICATE OF COMPLIANCE BCSD Washington Middle School Project Address: Date Prepared: Date Prepared: Duct leakage testing triggered for these systems? No 11 No The scoop of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In a the scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos.	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: Date Prepared: NRCC-MCH-E Project Address: Date Prepared: NCC-MCH-E Project Address: Date Prepared: Syl/2022 Duct leakage testing triggered for these systems? No Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned air to an occupiable pase for a constant volume, single zone, space-conditioning system. Duct System provides conditioned system serves less than 5,000 ft² of conditioned floor area. Duct System provides conditioned system serves less than 5,000 ft² of conditioned floor area. Duct System serves less than 5,000 ft² of conditioned spaces in a space for a constant volume, single zone, space-conditioning system. Duct System serves less than 5,000 ft² of conditioned spaces in a space for a constant volume, single zone, space-conditioning system. Duct System serves less than 5,000 ft² of conditioned spaces in a constant volume, single zone, space-conditioning system. Duct System serves less than 5,000 ft² of conditioned spaces in a constant volume, single zone, space-conditioning system. Duct System serves less than 5,000 ft² of conditioned spaces in a constant volume, single zone, space-conditioning system. Duct Sys	Mechanical Systems NRCC-MCH-E Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Space Name of item Tag Occupancy Type ⁴ Classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom AC-G4-G5 System Design OA CFM Airflow ¹ System Design OA CFM Airflow ¹ Name AC-G4-G5 System Design OA CFM Airflow ¹ Mechanical Ventilation Required per \$120.1(c)3 Exh. Vent per \$120.1(c)4 Sequired Min OA Required Provided per Design Min OA CFM CFM Min OA CFM NA: Not required space type Ves ABF 18 Ventilation for this System Complies? Ves AC-G4-G5 System Design OA CFM Airflow ¹ NA: Not required space type NA: N
Mechanical Systems NRCC-MCH-E	Mechanical Systems NRCC-MICHE SALIFORNIA ENERGY COMMISSION	Mechanical Systems NECCMOH-E NECCMOH-E Project Name: BCSD Washington Middle School Report Page: (Page 39 of 52) Project Address: L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 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 conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Qutdoors	Mechanical Systems NRCC-MCH-E CERTIFICATO F COMPLIANCE Project Name: BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Space Name ot item Tag Occupancy Type ⁴ Classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom Lecture/ postsecondary classroom 1281 Classroom Lecture/ postsecondary classroom AC-G4-G5 System Design OA System Design OA Airflov ¹ Name Ac-G4-G5 System Design OA CFM Airflov ¹ Mechanical Ventilation Required per \$120.1(c)3 3
Mechanical Systems NRCC-MCH-E FORMPLIANCE NRCC-MCH-E	Mechanical Systems NRCC-MCHE CALIFORNIA ENERGY COMMISSION	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPILANCE Project Name: BCSD Washington Middle School Report Page: (Page 39 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-A3 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 conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Report Page: (Page 35 of 62)
NICC.MICH E NICC.MICH E NICC.MICH E NICC.MICH E NICC.MICH E Project Name: BCSD Washington Middle School Report Page: (Page 47 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 Project Address: 1101 Noble Avenue Date Prepared: Project Address: No No No No No No No No	Mechanical Systems NRCC-MICHE SUFFIGHED SUFFIGH	McC-MCH-I CERTIFICATE OF COMPULANCE BCSD Washington Middle School Report Page: Project Address: BCSD Washington Middle School Report Page: Project Address: 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 systems. 13 Yes The space condictioning system serves less than 5,000 trig of the total surface area of the outside/ unconditioned spaces In an unconditioned crawl space In secope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. The scope of the project includes and very the procedures in the Reference Nonresidential Appendix NA2. The scope of the project includes conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. No The scope of the project includes only duct systems: AC-B1 Duct leakage testing triggered for these systems? No The space conditioning system serves less than 5,000 ft² of conditioned floor area. The space conditioning system serves	Mechanical Systems MRC-MICHE MRC-MICHE MRC-MICHE MRC-MICHE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Report Page: BCW or Sensor Controls per §120.1(cl)3. BCW or Sensor Controls per §120.1(cl) And \$151.0.0.0.2. Provided per Sizon (cl) And \$151.0.0.0.2. AIF Filtration per §120.1(cl) And \$151.0.0.0.2. Provided per Sizon (cl) And \$151.0.0.0.2. AIF Filtration per \$120.1(cl) And \$151.0.0.0.2. Provided per Sizon (cl) And \$151.0.0.0.2. BCW or Sensor Controls per \$120.1(cl) And \$151.0.0.0.2. BCW or Sensor Controls per \$120.1(cl) And \$151.0.0.0.2. BCW or Sensor Controls per \$120.1(cl) And \$150.1(cl) And \$15
Mechanical Systems MICC.MCH2 MICC.MCH2 MICC.MCH2 Project Name: BCSD Washington Middle School Report Page: (Page 47 of 62)	Mechanical Systems NICC-MCH-E NICC-MCH-E Project Name: BCSD Washington Middle School Report Page: NICC-MCH-E Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-C2 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 of conditioned floor area. 14 No The scope of the project includes only duct system should be space for a constant volume, single zone, space-conditioning system. 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 Outdoors Outdoors	Mechanical Systems NRCCMCH-E CERTIFICATO F COMPLIANCE BCSD Washington Middle School Report Page: BCSD Washington Middle School Report Page: NRCCMCH-E Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: ACA3 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 conditioning system serves less than 5,000 ft ⁻² of conditioned flop are. 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 systems: 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 \$24.03.38118 or if the roof has fixed vents or openings to the outside/ unconditioned spaces 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 \$24.03.38118 or if the roof has fixed vents or openings to the outside/ unconditioned spaces 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 \$24.03.38118 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In a suppose of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes extending an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. 15 The scope of the project includes only duct systems in the Reference Nonresidential Appendix NA2. Duct leakage testing triggered for these systems? No The scope of the project includes extendin	Mechanical System SICOLIMATE SICOLIMAT
MICCIMCHE MICCIMCHE MICCIMCHE MICCIMCHE MICRITICATO F COMPLIANCE BCSD Washington Middle School Report Page: MICCIMCHE Project Name: BCSD Washington Middle School Report Page: MICCIMCHE MICCIMCHE MICCIMCHE MICCIMCHE MICCIMCHE MICCIMCHE MICRITICATO F COMPLIANCE: BCSD Washington Middle School Report Page: MICCIMCHE MICCIMCH MICCIMCH MICCIMCH MICCIMCH MICCIMCH MICCIMCHE MICCIMCH MICCIMCHE MICCIMCH MICCIMCH MICCIMCH MICCIMCH MICCIMCH M	MCC-MCH-IR RICC-MCH-IR RICC-MCH-IR Project Name: BCSD Washington Middle School Report Page: (Page 43 of 62) Project Adfress: 1101 Noble Avenue Date Prepared: 9/1/2022 Distribution (DUCTWORK and PIPING)	Mechanical Systems NRC-MCH-E CERTIFICATE OF COMPLIANCE BCSD Washington Middle School Report Page: Project Name: BCSD Washington Middle School Report Page: Project Address: L DISTRIBUTION (OUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC A3 Duct leakage testing triggered for these systems? No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned at roan occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned flor are requirements of \$140.3(a)18. Or if the roof has fixed vents or openings to the outside/ unconditioned spaces In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18. Or if the roof has fixed vents or openings to the outside/ unconditioned spaces In the scope of the project includes a existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. The answers to the questions below apply to the following duct systems: AC 81 Duct leakage testing triggered for these systems? No The answers to the questions below apply to the following duct systems serving healthcare facilities AC 81 Duct leakage testing triggered for these systems? No The scope of the project includes on existing to conclusible space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioned of the spaces in accordance with recordinate in the Reference Nonresidential Append	Mechanical Systems INCC-MICHE
MCC-MON-16	Mechanical Systems RICCAMCHE RICCAMCHE RICCAMCHE	Mechanical Systems MICCARDI-LE	Mechanical Systems CALIFORNIA ENERGY COMMISSION CREMENT CR
NecCAMICAL	MeChanical Systems Michanical Systems Michan	McChanical Systems CALIFORNIA ENERGY COMMISSION INECACHONG INEC	MICHAINCE SITEMANCE SITEMA
NECLACIA-S INCREMENTAL TO COMPLIANCE Project Name: BCSD Weshington Middle School Report Page: Project Address: 1001 Noble Avenue Date Prepared: Prepared: 9/1/2022 Project Address: 1001 Noble Avenue Date Prepared: 9/1/2022 Project Address: 1001 Noble Avenue Date Prepared: 9/1/2022 Project Address: 1001 Noble Avenue Date Prepared: 9/1/2022 Project Address: AC-D4	Mechanical Systems Note	Mechanical Systems McCANDEL GERTHICATI OF COMPLIANCE Friends Taxon Duct leakage testing triggered for these systems? Into Noble Avenue Date Prepared: Project Address: 105 Noble Avenue Date Prepared: Project Address: No 11 No The answers to the questions below soply to the following duct systems: ACA3 Duct leakage testing triggered for these systems? No 11 No The answers to the questions below soply to the following 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. 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: 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: 15 The scope of the project includes an osking duct system, which is constructed, insulated or sealed with subsetos. 16 The scope of the project includes an osking duct system, which is constructed, insulated or sealed with subsetos. 17 Yes Duct system shall be sealed in acordance with the California Mechanical Code The answers to the questions bloow spayly to the following duct systems: ACA5 Duct leakage testing triggered for these systems? No The scope of the project includes an osking duct system, which is constructed, insulated or sealed with subsetos. The namewers to the questions bloow spayly to the following duct systems: ACA5 Duct leakage testing triggered for these systems? No The scope of the project includes are osking duct systems with its documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with the California Mechanical Code 11 No The sc	MICCHANICA IGERIFICATE OF COMPULANCE FROJECT Address: ISON Washington Middle School Report Page: Froject Address: J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per \$120,116.32 J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per \$120,116.32 Space Name of Item Tag Occupancy Type ⁴ Classroom Lecture/ postsecondary classroom 1281 Classroom Lecture/ postsecondary classroom 1281 AB6.8 O DCV or Sensor Controls per \$120,11618 Provided per Design CFM Min CFM CFM Min CFM CFM Min CFM CFM Min CFM Occupancy Type ⁴ Occupancy Type ⁴ Occupancy Type ⁴ Classroom AC-64-G5 System Name AC-64-G5 System Design OA CFM Airflow ¹ System Name AC-G4-G5 System Design OA CFM Space Name of item Tag Occupancy Type ⁴ Conditioned is of Shower Floor Area
Mechanical Systems SCAUPONNAEE SCAUPON	Mechanical Systems NRCCMOTE EXETTICATE OF COMPLIANCE Distribution (Page 3 of 52) Project Address: BCSD Washington Middle School Report Pages Pages Page 3 of 52) Project Address: SCSD Washington Middle School Report Pages Page 3 of 52) Project Address: SCSD Washington Middle School Report Pages Page 3 of 52) Project Address: SCSD Washington Middle School Report Pages Page 3 of 52) Project Address: SCSD Washington Middle School Report Pages Page 4 of 52) Project Address: L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems serving healthcare facilities 12	Mechanical Systems CALIFORNIA ENERGY COMMISSION	Mechanical Systems MICHAPICAL PROCESSION MICHAPICAL PROPERT MAN MICHAPICAL
Mochanical Systems SCALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMMISSION CERTIFICATE OF	NECHANICA CALIFORNIA PERSON COMMISSION CARTINCATO PCOMMISSION PCOMMISSION PCOMMISSION PCOMMISSION PCOMMISSION PCOMMISSION PCOMMISSION PCOMMISSION PCOMM	Mechanical Systems Michanical Michanical Systems Michanical Michani	Mechanical Systems SCALIFORNIA ENERGY COMMISSION SIRCCMORP
MocCAACH-C	Mechanical Systems Noce Monts GERRIFICATO FOR COMPLAINCE (Fright 1 or Compliance) (Fright 1 or Compliance) (Fright 2 or Compliance) (Fright 3	Mechanical Systems Michanical Systems Michanical Systems Michanical GERIFICATO OF COMPLINES CERTIFICATO OF COMPLINES The Annual Systems BESO Washington Middle Scharoll Report Pages Great 39 of 820 Project Address: 1101 Noble Avenue Date Prepared: 97/2022 L DISTRIBUTION DUCTWORK and PIPINGS The annual state of the project includes only duct systems: AC A3 Duct looking testing triggered for three systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 No Duct system provides conditioned at to an occupible space for a constant volume, single zone, scare-conditioning system. 13 No The appace and annual system servine is supply to the following duct systems: 14 No The appace distribution gives servine like the Space for a constant volume, single zone, scare-conditioning system: 15 No The appace distribution gives servine like the Space for a constant volume, single zone, scare-conditioning system: 16 No The appace distribution gives servine like the Space for a constant volume, single zone, scare-conditioning system: 18 No The appace distribution of the space conditioning system servine like space for a constant volume, single zone, scare-conditioning system: 19 No No 10 of the total surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: 10 of the space conditioning gives servine like an appace directly under a roof that has a U factor greater than the u factor of the coiling, or if the roof does not meet the equipments of \$2.00 discussed in a neuroconditioned cown space 10 in a neuroconditioned cown space 11 has been a space of the project includes an existing duct system, which is constructed, insulated or sailed with asbeatics. 12 has been accordanced in the space of the project includes an existing duct system, which is constructed, insulated or sailed with asbeatics. 13 No The accordance in the project includes a constraint space of the project includes an exist	Mechanical Systems SCO Weakington Mixide school Repeat Pregared Commission Security Securit
Mochanical Systems INCR. CADATE CERTIFICATION COMPLANCE INCR. CADATE	Mechanical Systems MICHANICE CERTIFICATE OF COMPLIANCE EXERTIFICATE OF COMPLIANCE BOOK Washington Middle School Report Pages (Page 43 et 62) Project Addresses (Page 44 et 6	Mechanical Systems Incredicts CERTIFICATE OF COMPLIANCE Project Rivers BCSD Weshington Indicide Scroso (Report Pages Project Address: 100 Nebbe Avenue (Date Prepared) Doct Individes Sorting Report Pages Project Address: 101 Nebbe Avenue (Date Prepared) Doct Individes Sorting Report Pages Project Address: 102 Nebbe Avenue (Date Prepared) Doct Individes Sorting Report Pages Project Address: 103 Nebbe Avenue (Date Prepared) Doct Individes Sorting Report Pages Project Address: 104 No The assesses to the questions below apply to the following doct systems: AC-A3 Doct Individes Group of the project Individes careful for the Intelligence Individes Careful Report Pages Project Address: AC-A3 Doct Individes Group of the Project Individes Careful Report Pages Project Address Addres	Mechanical Systems Micc Most S CERTIFICATE OF COMPLIANCE BICSO Washington Middle School (Region Page): (Regal Set As Project Address: 1101 Noble Avenue) Description of Address: 1101 Noble Avenue) Mechanical Verification Required per \$120,10(3) 7 Space Name of Letturify postsecondary classroom Lecturify postsecondary classroom Acrido S System Name AC-64-G5 System Name AC-64-G5 System Design OA CFM Air Filtration per \$120,10(3) 891 System Name AC-64-G5 System Design OA CFM Air Filtration Required per \$120,10(3) 891 Transfer Air CFM Air Filtration per \$120,10(3) 891 Air Filtration per \$120,10(3)
MoccaMort GERFIFICATION COMPLIANCE SCADING STATEMENTOR COMPLIANCE LOSTRIBUTION (DUCTWORK and PIPING) The amswers to the questions below apply to the following duct systems: 11 No No The scape of the project includes only duct systems serving healthcare facilities 12 No No The combined surface area of the ducts in the following duct systems serving the statement of the calling, or if the roof does not meet the requirement of \$1,850,2161,210 or if the roof does not meet the experiment of \$1,850,2161,210 or if the roof head has developed in the scape of the opinion of the roof does not meet the requirement of \$1,850,2161,210 or if the roof head has developed in the scape of the opinion of the roof does not meet the requirement of \$1,850,2161,210 or if the roof head has developed in the scape of the opinion of the roof does not meet the requirement of \$1,850,2161,210 or if the roof head has developed in the scape of the project includes extending an entiting duct system, which is constructed, insulated or scaled with absents. 15 The scape of the project includes an estizing duct system, which is constructed, insulated or scaled with absents. 16 The scape of the project includes an estizing duct system, which is constructed, insulated or scaled with absents. 17 Wes Duct system shall be selected an accordance with procedures in the Reference Norrecollected and scapedial NAID. 18 No The scape of the project includes an estizing duct systems. 19 No The scape of the project includes an estizing duct systems. 10 No The scape of the project includes an estizing duct systems. 10 No The scape of the project includes an estizing the scaled and accordance with procedures in the Reference Norrecollected large been previously scaled as confidenting system. 10 No The scape of the project include	MacChanical Systems MacChanical Certification of Communication CERTIFICATION OF COMMUNICATION CERTIFICATION OF COMMUNICATION Begord Address: BESD Washington Middle School Report Pages: (Page 43 of 62) Project Address: (Page 43 of 62) Page 44	Mechanical Systems Michanical Systems Michanical Systems MICHANICE Graffinch of County-MARCE These the service of County-MARCE These these is used to very service in the service of	Mechanical Systems MICHARICE MICHARI
Machanical Systems Micro Work To Communication Frequent Name (ICCO Variantington Nicode Subroul Resper Page) (ICCO Variantington Nicode Subroul Resper Variantington Nicode Subroul Respect Variantington Nicode Subroul Variantington Nicode Subrou	Mechanical Systems INCOCAMIC CRITICATO COMPLIANCE INSIGNATION INCOCAMIC CRITICATO COMPLIANCE INSIGNATION INCOCAMIC INSIGNATION INCOCAMIC INSIGNATION INCOCAMIC INSIGNATION INCOCAMIC INCOC	Mechanical Systems MICCADE TO COMPUNIONE MI	Mechanical Systems MICHANICE INCREMENTATION OF COMMISSION INCREMENT INCRE
Mochanical Systems IRCA. More In Program Expert For Community Freight Table III Section (Incommunity III Section (III Section	MICHAPINES	Mechanical Systems Microbiol Generator of Communical Project Service SCALIPORNIA IN PLISOr COMMUNICAL Communication of Communication Project Service SCALIPORNIA PLISOr COMMUNICAT Project Service SCALIPORNIA PLISOr COMMUNICAT Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP Project Service SCALIPORNIA AND PRINCIP SCALIPO	Mechanical Systems MICHANICA COMPLANACE CERTIFICATE OF COMPLANACE Project Name SCO Washington Michae School Report Pager Project Address: 1311 Note Annew Dear Project Project Address: 1311 Note Annew Dear Project Annew Dear Pro
Mechanical Systems SCC Workington Mindels Station Passard Page Page 07 of 607	MICHANICAL Systems BCIO Washington Niklads School (Report Pages) Pages of into Pages Pages Pages of into Pages Pages Pages of into Pages	Mechanical Systems Incorporate Incorporation Inc	Mechanical Systems
Mechanical Systems MIST wilds knowledges (Mistan Mistan M	MICHAPINAL PICKET COMMISSION TO COMPLIANC SITUATION OF COMMISSION Project Address SITUATION OF COMMISSION Registrations of COMPLIANC SITUATION OF COMMISSION Registration of COMPLIANC SITUATION OF COMPLIANC SITUATIO	Mechanical Systems Included Included Systems Included	Machanical Systems Microsoft Microso
No. ARRIVED TO CONTRICATION CON	Mechanical Systems SCC STREAM TO COMMUNION INC. STREAM TO TRANSPORT OF COMMUNION AND REPORT	Mechanical Systems Vic. void Regist States RECE Vestings Minds School/Baper Page RECE Vestings Minds Minds Minds School/Baper Page RECE Vestings Minds Min	Machanical Systems
Mechanical Systems Inc. CANCOLOR COMPUTATION CONTINUED Inc. CANCOLOR CONTINUED Inc. CANC	Mechanical Systems COMPANIES SOCIONALISES March SACC The control of the companies SACC SACC	Mechanical Systems Occupant Description (Communication Communication C	Accordance System Street
Mechanical Systems Transcriptor Communication Communicatio	Mechanical Systems (CONTRIBUTION FOURTHWISE) (Mechanical Systems Mechanical Systems Discussion Consumator Recording Project Marker Recording Record	ALL FORMA DERIFOY COMMISSION TOTAL DESIGNATION AND INCOME AND COMMISSION AND COMMISS
CALPORNA DESIGN COMMISSION The cales of the project Advances 10.00 Years 10.00	Mechanical Systems Communication Communic	Mechanical Systems CERROTOR CONTINUES CERROTOR CONTINUES SCE description Visible Scroel/Plagen Right Project Market 1101 Table Annual/plagen Right Project Market 1102 Table Annual/plagen Right Project Market 1103 Table Annual/plagen Right Project Market 1104 Table Annual/plagen Right 1105 Table Annual/pla	Mechanical Systems
Mechanical Systems SCO Youther SCO YOUTH SCO YO	Mechanical Systems Micro Vot. George Votes Micro Votes (Micro Votes Votes) Micro Votes (Micro Votes	Mechanical Systems Ceremond of Construction Prograf Market Mark Conference	Committee Comm

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL

DISTRICT

1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

HVAC REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs by SOMAM, Inc.

ARCHITECTURE

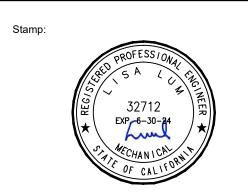
ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2022



eet Title:

TITLE 24 DOCS

5525

M3.03

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 61 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 57 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 53 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 49 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	L. DISTRIBUTION (DUCTWORK and PIPING)	L. DISTRIBUTION (DUCTWORK and PIPING)
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/	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/	The answers to the questions below apply to the following duct systems: AC-H5-H6 Duct leakage testing triggered for these systems? 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.	The answers to the questions below apply to the following duct systems: AC-E3 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.
Form/Title Systems/Spaces To Be Field Inspector Verified Pass Fail NRCA-MCH-11-A Automatic Demand Shed Controls 50GCQM04; Carrier	Form/Title Systems/Spaces To Be Field Inspector Verified Pass Fail NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant 50GCQM04; Carrier	13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:	13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units Carrier 50GCQM06; Carrier 50GCQM06; Carrier	Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". 50GCQM04;	Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
50GCQM06; Carrier □ □ □ 50GCQM06; Carrier □ □ 50GCQM06; Carrier □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		In an unconditioned crawl space In other unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	In an unconditioned crawl space In other unconditioned spaces The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION There are no NRCV forms required for this project.		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
Q. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.		17 Yes Duct system shall be sealed in acordance with the California Mechanical Code M. COOLING TOWERS	17 Yes Duct system shall be sealed in acordance with the California Mechanical Code The answers to the questions below apply to the following duct systems: AC-E4 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities
01 02 Compliance with Mandatory Measures documented through MCH		This section does not apply to this project. N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	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.
Mandatory Measures Note Block Mi-Sneets		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/	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: 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
		Form/Title Field Inspector Pass Fail	requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces
		NRCI-MCH-01-E - Must be submitted for all buildings	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
			17 Yes Duct system shall be sealed in accordance with the California Mechanical Code
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03
Schema Version: rev 20200601	Schema Version: rev 20200601 STATE OF CALIFORNIA	Schema Version: rev 20200601 STATE OF CALIFORNIA	Schema Version: rev 20200601 STATE OF CALIFORNIA
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 62 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 58 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	Project Name: BCSD Washington Middle School Report Page: (Page 54 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022	CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 50 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	L. DISTRIBUTION (DUCTWORK and PIPING)
Certify that this Certificate of Compliance documentation is accurate and complete.	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/	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/	The answers to the questions below apply to the following duct systems: AC-F1-F2 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.
Company: Integrated Designs by SOMAM, Inc. Address: CEA/ HERS Certification (if applicable):	Form/Title Systems/Spaces To Be Field Inspector Verified Pass Fail Carrier 50GCQM06; Carrier	Form/Title Systems/Spaces To Be Field Inspector Verified Pass Fail Carrier 50GCQM06; Carrier	13 Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area. 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:
6011 North Fresno Street, Suite 130 City/State/Zip: Phone: 559-436-0881	50GCQM06; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	50GCQM06; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
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 Compilance is true and correct.	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	50GCQM05; Carrier 50GC	☐ In an unconditioned crawl space ☐ In other unconditioned spaces ☐ The scane of the project includes extending an existing duet system, which is constructed, insulated or scaled with ashester.
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). 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. 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,	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
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 shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. Funderstand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name:	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	17 Yes Duct system shall be sealed in acordance with the California Mechanical Code The answers to the questions below apply to the following duct systems: AC-G1 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities
Lisa Lum, PE Company: Integrated Designs by SOMAM, Inc. Date Signed: 2022-09-01			12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.
Address: 6011 North Fresno Street, Suite 130 City/State/Zip: Phone:	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM05; Carrier	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: 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
Fresno CA 93710 559-436-0881	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM04; Carrier	50GCQM05; Carrier 50GCQM05; Carrier 50GCQM04; Carrier	requirements of \$140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces In an unconditioned crawl space In other unconditioned spaces
	50GCQM04; Carrier 50GCQM06; Carrier 50GCQM06; Carrier	50GCQM04; Carrier 50GCQM06; Carrier 50GC	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification
	50GCQM04; Carrier 50GCQM06; Carrier 50GCQM04; Carrier	50GCQM04; Carrier 50GCQM06; Carrier 50GCQM04; Carrier	and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. 17 Yes Duct system shall be sealed in acordance with the California Mechanical Code
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-09-01 10:23:03
	Schema Version: rev 20200601	Schema Version: rev 20200601	Schema Version: rev 20200601
	STATE OF CALIFORNIA Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: CALIFORNIA ENERGY COMMISSION REPORT Page: (Page 59 of 62) 9/1/2022	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Avenue CALIFORNIA ENERGY COMMISSION REC-MCH-E Report Page: (Page 55 of 62) Date Prepared: 9/1/2022	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: SCALIFORNIA ENERGY COMMISSION REPORT Page: (Page 51 of 62) Project Address: 9/1/2022
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: 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	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 55 of 62) Project Address: Date Prepared: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: CALIFORNIA ENERGY COMMISSION REPORT Page: CALIFORNIA ENERGY COMMISSION RECC-MCH-E (Page 51 of 62)
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title CALIFORNIA ENERGY COMMISSION Report Page: (Page 59 of 62) Page 69 of	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 55 of 62) Project Address: Date Prepared: O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title CALIFORNIA ENERGY COMMISSION Report Page: (Page 55 of 62) Page 56 of 62) Page 67 of	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: Date Prepared: Prepared: Project Page: (Page 51 of 62) Project Address: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.
	Mechanical Systems NRCC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: Date Prepared: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Verified Verified NRCA-MCH-05-A - Air Economizer Controls SOGCQM04; Carrier SOGCQM04; NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand Carrier 50GCQM05; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 55 of 62) Project Address: O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared:
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector Verified Pass Fail NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Project Address: CALIFORNIA ENERGY COMMISSION RECO-MCH-E Project Name: Project Address: 1101 Noble Avenue Date Prepared: Project Address: CALIFORNIA ENERGY COMMISSION RECO-MCH-E Project Name: Project Name: Project Address: NRCC-MCH-E Project Name: Project Address: Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Verified Pass Fail NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. CALIFORNIA ENERGY COMMISSION Report Page: NRCA-MCH-06-A Address: Systems/Spaces To Be Field Verified Pass Fail SOGCQM04; Carrier SOGCQM05; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 51 of 62) Project Address: 1101 Noble Avenue Date Prepared: Sy1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In other unconditioned crawl space In other unconditioned crawl space In other unconditioned spaces The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: 1101 Noble Avenue Date Prepared: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. CALIFORNIA ENERGY COMMISSION RACC-MCH-E NRCC-MCH-E NRCC-MCH-E NRCC-MCH-E NRCA-MCH-OR FEQUIRED CERTIFICATES OF ACCEPTANCE SofacQMO4; Carrier SOGCQMO5; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: (Page 51 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors
	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. SoccOM05; Carrier SOGCQM05; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPILANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: Project Address: BCSD Washington Middle School Project Page: BCSD Washington Middle School Project Page: Project Address: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. 13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area. 14 No The scombined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: Outdoors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces In other unconditioned crawl space In an unconditioned spaces 15 The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos. The scope of the project includes on
	Mechanical Systems MRCC-MCHE Project Name: BCSD Washington Middle School Report Page: NRCC-MCHE Project Address: 1101 Noble Avenue Date Prepared: 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 building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. SCCQMM05; Carrier SOGCQM05; Car	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NICC. MCH-E Project Name: BCSD Washington Middle School Report Page: (Page 51 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 L. DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: AC-G2-G3 Duct leakage testing triggered for these systems? No 11 No The scope of the project includes only duct systems serving healthcare facilities
	Mechanical Systems NRCC-MCHE Project Name: BCSD Washington Middle School Report Page: (Page 59 of 62) Project Address: 1101 Noble Avenue Date Prepared: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.co.gov/itile24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)) (an vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. SocQMM05; Carrier SOGCQM05; Carrier	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MICHE RECEIVANCE RECEIVANCE RECEIVANCE RECEIVANCE Report Page: (Page 51 of 62)
	Mechanical Systems NICC-MICHE CERTIFICATE OF COMPILANCE BICSD Washington Middle School Report Page: (Page 59 of 63) Project Address: 1101 Noble Avenue Date Prepared: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-05-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120_1(c)\frac{1}{2}) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. Signature of the standard	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems NRCC-MCH-E
	Mechanical Systems INCC-MCH-E RETRIBUTED FO COMPILINCE BCSD Washington Middle School Report Page: BCSD Washington Middle School Report Page: RECENTIFICATE OF COMPILINCE Project Address: 1101 Noble Avenue Date Prepared: 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.co.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventillation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO:) concentration setpoints. RRCA-MCH-06-A Demand Control Ventillation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO:) concentration setpoints. SocCQMOS; Carrier SOGCQMOS; Carrie	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems INCC-MICHE INCERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: 1101 Noble Avenue Date Prepared: Dut leakage testing triggered for these systems? No 1101 Noble Avenue Date Prepared: Dut system provides conditioning systems serving healthcare facilities Dut system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. Date Prepared: Dut System provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. Date Prepared: Dut System provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. Date System provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system: Dut doors Dut doors In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140,3018 or if the roof has fixed vents or openings to the outside/ unconditioned spaces Din other unconditioned spaces Din other unconditioned system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidual Appreviously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidual Appreviously sealed as confirmed through
	Mechanical Systems Indication Indicatio	Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: BCSD Washington Middle School Project Address: BCSD Washington Middle School Project Page: (Page 55 of 62) Project Address: 9/1/2022 O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Systems/Spaces To Be Field Field Inspector 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 50GCQM04; Carrier	Mechanical Systems CALIFORNIA ENERGY COMMISSION
	Mechanical Systems RECAMORE RECREATION FOR COMPLIANCE SERVINE BOSD Washington Middle School Support Page: (Page 39 of Exp. Project Address: 103 Noble Avenue Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, piecase explain why in Table E Additional Remarks. These documents must be provided to the building inspected during construction and can be found and online or integrity/www.energy.ca.gov/title24/2019/standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Form/Title NRCA MCH-05-A. Air Economizer Controls NRCA MCH-05-A. Air Economizer Controls NRCA MCH-05-A. Air Economizer Controls NRCA MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1/clg) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints. RRCA MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1/clg) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints. RRCA MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1/clg) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints. RRCA MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1/clg) carrier SOCCUMBS; Car	MECHANICA MICHERITER OF COMPLIANCE RESULTATION OF REQUIRED CERTIFICATES OF ACCEPTANCE ODECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Form/Title NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in SOCCOMMA; Carrier ARCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in SOCCOMMA; Carrier Registration Number: Registration Number: Registration Number: Registration Provider Energypoth CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.10.03 Report Cenerated: 2012-09-01 10:23:03	Machanical Systems NECAMICE FRETRICATE OF COMPLIANCE REPORT AGENCY REPORT OF COMPLIANCE REPORT AGENCY Report Regis: ROS Washington Misdle School Ros Washington Misdle School ROS Washington Misdle School Ros Washington ROS
	MICCHAINE IRECHIECATE OF COMPLIANCE REPRESENTED TO COMPLIANCE Project Name: BCSD Weshington Middle School Report Page: Project Address: Deep Project Address: 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 inspect or during construction and can be found online at https://www.energy.co.gov/trite24/2019.compliance_documents/Nonresidential_Documents/NRCA/ Form/Title Form/Title NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-05-A - Demand Control Vertifiation Systems must be submitted for all systems required to employ demand controlled vertified control vertifiation frefer to \$120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO3) concentration setpoints. SOCCUMUS, Carrier SOCCUMUS, Carrie	MICCHAPIC RECHIFICATE OF COMPLIANCE SICCOMPAINE BCSO Washington Middle School Report Page: Project Address: Date Prepared: 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 & Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.co.gov/thle24/2019standards/2019_compliance_documents/Nonresidential_Documents/N	Mechanical Systems INCL MORE! GERHICATE OF COMPLIANCE Project Address: BCSD Washington Middle School Report Page: Project Address: 1101 Noble Avenue Date Prepared:
	Mechanical Systems MICC MOLE MICRORY COMPLIANCE MICRORY COMMISSION MICC MOLE Project Address: 1101 Noble Avenue Date Prepared: 97,7022 D. 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 was be provided to the Soliding inspected using construction and can be found online at MICE, AMENIA (ACC) Forn/Table NRCA-MICH-65-A - Air Economizer Controls NRCA-MICH-65-A - Air Economizer To Air Economizer Controls NRCA-MICH-65-A - Air Economizer Controls NRCA-MICH-65-A - Air Economizer Controls NRCA-MI	Nace Most 9 INCO: MOST 9 INC	Mechanical Systems MICHANICE INTERPRETOR OF COMMUNANCE REFIRENCE OF COMMUNANCE Project More: 9CSD Washington Middle School (Report Page: Project Address: 1101 Noble Avenue) (Date Prepared: 91/2022 L DISTRIBUTION (DUCTWORK and PIPING) The answers to the questions below apply to the following duct systems: 12 No The scope of the project includes only duct systems serving healthcare facilities 112 No The space conditioning system service six than 5,000 To do conditioned flor are as 14 a No The gambings wither service six than 5,000 To do conditioned flor are as 14 a No The gambings wither service six than 5,000 To do conditioned flor and read that the six than 5,000 To do notificationed flor are as 14 a No The gambings wither service six than 5,000 To do notificationed flor are as 14 a No The gambings wither service six than 5,000 To do notificationed flor are as 15 a No The gambings wither service six than 5,000 To do notificationed flor are as 15 a No The gambings with service six than 5,000 To do notificationed flor are as 15 a No The gambings with service six than 5,000 To do notificationed flor are as 15 a No The gambings with service six than 5,000 To do notificationed flor are as 16 a No The gambings with service six than 5,000 To do notificationed flor are as 16 a No The gambings with service six than 5,000 To do notificationed flor are as 16 a No The gambings with service six than 5,000 To do notificationed flor are should with subsettor. In an unconditioned crawl space In an unconditioned game six than 5,000 To do notification flor are should with subsettor. The answers to the questions below apply to the following duct systems: 15 The scope of the project includes an existing duct system with 6 scattering with subsettors. The answers to the questions below apply to the following duct systems: 16 A No The scope of the project includes an existing duct system with 5 documented to have been previously sealed as confirmed through field verification and diagnostic sesting in accordance with the
	MECHANICA INC.CANCHE CERTIFICATE OF COMPILIANC Project Address: D. D. D. ECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Inc. Market D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D. D. D. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE D. D	Mechanical Systems SCALIFORNIA ENERGY COMMISSION CRITICATE OF COMPLIANC SLEEP Washington Middle School [Report Page: (Page 85) of 62] Project Address: 103 Noite Anexus Date Prapared: 9/17/202] SCALARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE 103 Noite Anexus Date Prapared: 9/17/202] SCALARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE 103 Noite Anexus Date Prapared: 9/17/202] SCALARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE 103 Noite Anexus Date Prapared: 9/17/202] SCALARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE 103 Noite Anexus 103 Noite Anex	Mechanical Systems Not CoMPHANCE NRC MARKS NRC MARKS Project Mare: BCSD Washington Holdde School Report Page: (Pega 1 of Rd) Project Address: 1101 Roble Avenue (Date Prepared: 971/2022 97
	Michanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPILANCE BCO Washington Middle School Report Page: Fig. 95 of 50] Project Address: SIGO Washington Middle School Report Page: Fig. 95 of 50] Project Address: SIGO Washington Middle School Report Page: Fig. 95 of 50] Project Address: SIGO Washington Middle School Report Page: SIGO Washington Middle School Report Version needs to be changed, please explain why in Table & Additional Remarks. These documents must be provided to the building inspected draining construction and can be found aniline at https://www.energy.ca.gov/titte/24/2019/standen/dra/202. Compliance, documents/Norresidential_Docum	Mechanical Systems SICCADON-B ENERGY COMMISSION CRITICATE OF COMMISSION CRITICATE OF COMMISSION SICCADON-B SICADON-B SICCADON-B SICCADON-B SICCADON-B SICCADON-B SICC	Mechanical Systems MICCAMICS GERIFICATE OF COMPILANCE BOSD Weshington Middle Sciocol Bapart Page: Freject Address: 1301 Tools Assembly Date Properties Freject Address: 131 No The scope of the project includes only duct systems serving healthcare facilities 132 Yes 133 Yes The scope of the project includes only duct systems serving healthcare facilities 134 No The combineds surface and the ducts in the following patent were not the activities of the total surface area of the entire duct systems: 135 Yes 136 Outdoors 137 Yes 138 Duct system provides care of the ducts in the following facet story area. 139 In the scope of the project includes on the following facet story area. 130 In the scope of the project includes on the following facet story area. 131 In the scope of the project includes on the following facet story area. 132 In the scope of the project includes on the following facet story area. 133 In the scope of the project includes on existing duct system than the vinctor of the calling or if the roof does not meet the equivements of \$240,03,018 or if the roof has fload wents or openings to the outside/ unconditioned spaces 130 In the scope of the project includes on existing duct system than the vinctor of the calling or if the roof does not meet the equivements of \$240,03,018 or if the roof has fload wents or openings to the outside/ unconditioned spaces 131 In the scope of the project includes only duct systems that is documented to have been previously seaded as confirmed through field verification and diagnosts: testing in accordance with front the California Mechanical Code 132 Yes Duct system provides conditioned in a manufact guide system shall be easied in accordance with the California Mechanical Code 133 Yes The scope of the project includes and what so
	Mechanical Systems MICC MOSE SCHORT AND REPORT COMMISSION GERRIFICATE OF COMPILANCE SCIO Weakington Middle School Report Page: Figs 9 det3 Project Address 103 Noble Avenue Date Prepared: 91/2022 C. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE 91/2022 Selections have been mode based on information provided in previous tables of this document. If only selection needs to be changed, please explain why in Table & Additional Manaries. These documents must be provided to the building inspector during construction and can be journal continued. Selections have been mode based on information provided in previous tables of this document. If only selection needs to be changed, please explain why in Table & Additional Manaries. These documents must be provided to the building inspector during construction and can be journal continued.	INCECACIO COMPLIANCE	MICHANICA COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE BCSD Washington Middle Scionol/Bapen Pages Prograf Address: 1001 Notife Avenue/Date Prepared: Prograf Address: 1101 Notife Avenue/Date Prepared: Prograf Address: 1101 Notife Avenue/Date Prepared: Prograf Address: 1101 Notife Avenue/Date Prepared: Prograf Address: 111 No The expose of the project includes only duct systems serving healthcare facilities 112 Ves Duct systems provides conclided as an accomplishe space for a constant volume, single zone, space-conditioning systems. 133 Ves The space conditioning system serves lost in the following countries on the major Sub-field the systems: 144 No The examinated surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the total surface area of the ducts in the following countries on the major Sub-field the following countries on the ducts of the colling on if the more field sub-field the verification and diagnostic testing in accordance with horizon following in the following countries on the major sub-field ducts on the major sub-field the verification and diagnostic testing in accordance with be called the sub-field sub-field sub-field sub-field sub-field sub-field sub-field sub-field sub-fiel
	Mechanical Systems INCOCASHE INCOMPLIANCE RECOMPLIANCE	Mechanical Systems INCREDIC GENERAL RELEGY COMMISSION RECORDS Project Rieme SCSD Visibility Middle School (Report Page) Dreas St et 50 Project Rieme SCSD Visibility Middle School (Report Page) Dreas St et 50 Project Rieme SCSD Visibility Middle School (Report Page) Dreas St et 50 Scenario Andreas Records Records Records Scenario Andreas Scenario Andreas Scenario Andreas Scenario Andreas Records	Mechanical Systems Micro ANICE GETTIFICATE OF COMPLIANCE BEST OWN-IMPORT THE COMPLIANCE BEST OWN-IMPORT AND THE PROPERTY OF THE PROPERTY O
	MECHANICA DISCOMMUNICE CERTIFICATION COUNTLINGE SCOOM White Propert Middle School (Report Page) Proper Name SCOOW White Propert Middle School (Report Page) Drags of all of Propert Address of the Comment of Page 1 and 10 (1970) C. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Schicktown have been make beared on information provides in an armonic station of the changed please explain why in Table E Additional Records. Retail Research Address of the Comment of Page 1 and 10 (1970) Retail Research Additional Records and Retail Research Additional Records and Research Additional Records and Research Additional Records and Research Additional Records and Research Additional Records Additional Records Additional Records Additional Research Additional Records Additional Records Additional Records Additional Research Additional Records Additional Recor	MICHANIC DECOMPLIANC GERRICATION OF COMPLIANC DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Sections have been make based on information provided in previous tables of this decrement. For validation needs to be changed, please explain why in Table E Additional Remarks. Section Provided in Provincia Certification of the Compliance of the Compli	Mechanical Systems INTO-CASIT-STATE INTO-CAMPLANCE
	MICHAPICAL Systems INCOLOGIE Frigital Conformation Incologies INCOLOGIE Frigital Conformation Incologies In	MICHANICA Systems INCRECADE TO COMMUNICATION COMMISSION INCREDITED TO COMMUNICATION COMMISSION INCREMENTS TO COMMUNICATION COMMISSION INCREMENTS TO COMMISSION INCREMENTS OF ACCEPTANCE Secretors below the lower and in information promission prom	Mechanical Systems Inco Unit 1 Finger Name BIGS Washington Niddle Scoullibugor Page BY 27622 Distribution for Communication In a speciment to the questions below apply to the following duct systems: 120 Tribution and the project includes on violating systems service behalboard facilities 121 Yes Duct system provides confolioned by an an occupation below apply to the following duct systems: 122 Yes Duct system provides confolioned by an an occupation below apply to the following duct systems service behalboard facilities 123 Yes Duct system provides confolioned by an an occupation below apply to the following duct systems are serviced by an an analysis of the social surface area of the entire duct systems: 133 Yes The space conditioning system serves less than 5,00011** of confolioned floor area. 144 No The communication of the description of the social behalboard for area of the testing for the following duction in most than 20% of the total surface area of the entire duct systems: 144 No The space conditioning system serves less than 5,00011** of confolioned floor area. 155 In the scope of the project includes containing an estating duct systems with a contraction, included or an entire duct systems: 156 In the scope of the project includes containing an estating duct system, which is contracted, included or existed with absence. 157 The State of the contraction of the service of the service of the contraction of the service of the contraction of the service of the service of the contraction of
	MICHANICAL SYSTEMS INCOMPLIANCE INCOMPLIAN	MICE SIDE TO COMPLIANCE STORY OF THE STORY OF COMPLIANCE RECEIVED TO COMPLIANCE SCHOOL STORY OF COMPLIANCE SCHOOL STORY OF THE STORY OF COMPLIANCE SCHOOL STORY OF CO	MICHANICAL SYSTEMS TO COMPANICAL T
	MICHANICAL SYSTEMS INTERCENT OF COMPANION OF REQUIRED CENTRIFICATES OF ACCEPTANCE SITURDING Marker 1107, Notice Assemble Joseph Page: Marker 1107, Notice	MECHANICA CERTIFICATION Proper Man SCIED WINDOW SCIED WINDOW SCIED WINDOW SCIED WINDOW SCIED WINDOW Proper Man SCIED WINDOW Pr	Mechanical Systems INCLOSES GETTIFICATOR COMPUNICE INCLOSES IN
	Mechanical Systems Introduced (COMPOSIDE) CONTROL (COMPOSITE) CONTROL	Machanical Systems Microsoft Of Continuous	Marchanical Systems Stock Westerington Mode School Special Region Stock Memory Stock Memo
	Machanical Systems Increased:	Machanical Systems SQU Weenington Modes Stockel Report Page SQU Weenington Modes SQU Weenington Ween	Mechanical Systems (ECONOMICS (SOME SOURCE)
	Microsophical Systems Microsophical Conference	Mechanical Systems INSTITUTE The part deliminary in the CSD Water specified below the part type The part deliminary in the CSD Water specified below the part type The part deliminary in the CSD Water specified below the part type The part deliminary in the CSD Water specified below the part type The part deliminary in the CSD Water specified below the part type which the water deliminary in the CSD Water specified below the part type which the water deliminary in the CSD Water specified below the part type which the water and the part type which the water specified below the type which the type wh	Mechanical Systems With 1971 International Communication (SCS) Westington Midds Script Speech Rape Project Allers International Communication (SCS) Westington Midds Script Speech Rape Project Allers International Communication (SCS) Westington Midds Script Speech Rape International Communication (SCS) Westington Middls Speech Rape International Communication (SCS) Westington Middls Speech Rape International Communication (SCS) Westington Rape Rape International Communication Rape Rape Inte
	Microsophic Systems 15.00 Variotype Microsophic Street Mark 15.00 Variotype Microsophic Mark 15.00 Variotype Mi	Moderation Mod	Mechanical Systems SCOI Steampers (MECH Section Pages SCOI Steampers (MECH Section

APP: 03-122490 INC:

REVIEWED FOR

SS ☑ FLS ☑ ACS □



BAKERSFIELD CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

Project Address: WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.



TITLE 24

				FIXTU	RE SCHEI	DULE	<u> </u>	
			FIXTURE	SYMBOL (3-A-43): 3 = Cl	IRCUIT NUMBER, A = FIXTURE	TYPE, 43 = F	IXTURE WATTAGE	
TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	MOUNT	NOTES	WEIGHT
A	43	L.E.D.	120- 277V	LITHONIA	EPANL-2x4-6000LMHE- 80CRI-40K-MIN1-EZT- MV0LT	T-BAR	PER #1/E5.00	15 LBS
AE	43	L.E.D.		LITHONIA	EPANL-2x4-6000LMHE- 80CRI-40K-MINI-EZT- MV0LT-E10WCP	T-BAR	PER #1/E5.00 (1)	15 LBS
В	39	L.E.D.		LITHONIA	BLWP4-48LHE-ADP-EZ1- LP840-N100	SURAFACE	PER #2/E5.00	10 LBS
BE	39	L.E.D.		LITHONIA	BLWP4-48LHE-ADP-EZ1- LP840-N100-E10WLCP	SURFACE	PER #2/E5.00 (1)	10 LBS
CE	39	L.E.D.		LITHONIA	BLWP4-48LHE-ADP-EZ1- LP840-N100-E10WLCP	WALL	(1), (3)	10 LBS
X	2	L.E.D.	120- 277V	LITHONIA	LHQM-LED-R-HO	SURFACE	SINGLE FACE EXIT SIGN/EM LIGHT WITH EMERGENCY (2) BATTERY PACK	5 LBS

FIXTURE SCHEDULE NOTES:

- (1) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E5.00 FOR WIRING REQUIREMENTS.
- (2) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE EMERGENCY LIGHTS IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E5.00 FOR WIRING REQUIREMENTS.
- (3) SEE LIGHTING PLANS FOR MOUNTING HEIGHTS.

		ELECTRICAL SYMBOLS ALL DIMENSIONS TO CENTER OF BOX, U.O.N.
	3-	
		CIRCUIT NUMBER (3-A-43)
	-A-	FIXTURE TYPE (3- <u>A</u> -43)
	-43	FIXTURE WATTAGE (3-A-43)
	(A)	HOME RUN 3/4"C - MIN. (PANEL A, CIRCUIT #3)
	\leftarrow	CONDUIT RUN IN WALL OR ATTIC (1/2°C – 2 #12 AWG THWN + 1 #12 GND)
	()	CONDUIT RUN IN FLOOR OR UG (1/2°C - 2 #12 AWG THWN + 1 #12 GND)
		ANY CONDUIT RUN - 1/2"C - 3 #12 AWG THWN + 1 #12 GND
		" " - 3/4"C - 4 #12 AWG THWN + 1 #12 GND
		" " - 3/4"C - 5 #12 AWG THWN + 1 #12 GND
		" " -1"C - 6 #12 AWG THWN + 1 #12 GND
		CONDUIT STUB – CAPPED AND LABELED.
		ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
	U.O.N.	UNLESS OTHERWISE NOTED
	W.P.	WEATHERPROOF
		TERMINAL CABINET (SIZE AS SHOWN)
		ELECTRICAL PANELBOARD
	Ф	SINGLE 20A RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	Ф	DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
		G.F.C.I. DUPLEX RECEPTACLE IN MOUNTED ON ROOF
		QUADRUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
(B)		G.F.C.I. DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
(2)	b	SURGE PROTECTED DUPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	*	SURGE PROTECTED QUADPLEX RECEPTACLE IN WALL (+15" MIN. TO BOTTOM OF BOX)
	₩ WH	EXIT LIGHT, WALL MOUNTED
	⊗ i ⊗	EXIT LIGHT, CEILING MOUNTED
	몯	WALL MOUNTED LIGHT FIXTURE (MOUNT AS SHOWN)
4.15		LIGHT FIXTURE
(H)	<u> </u>	
(J)		LIGHT FIXTURE WITH "nLIGHT" EMBEDDED CONTROLS
		LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
	\square	THEATRICAL LIGHT
	\$	LIGHT SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
(L)	D	ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
	<u>(65)</u>	360° OCCUPANCY SENSOR (DUAL TECHNOLOGY), CEILING MOUNTED
(F)	OS	OCCUPANCY SENSOR WALL SWITCH, LOW VOLTAGE (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
Œ)	S	ON/OFF SWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
` '		
(D)	SK	ON/OFF DIGITAL KEYSWITCH (+4'-0" MAX. TO TOP OF BOX, U.O.N.)
	0	JUNCTION BOX EQUIPPED WITH BLANK COVER
	وگ	JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION
	<u>√</u>	COMBINATION HEAVY-DUTY FUSED SAFETY SWITCH/MAGNETIC STARTER
	9	MOTOR
(<u> </u>	HEAVY-DUTY FUSED SAFETY SWITCH
	<u> </u>	SMOKE DETECTOR MOUNTED ON CEILING
	<u>®</u>	HEAT DETECTOR, MOUNTED ON ROOF
	(11)	HEAT DETECTOR, MOUNTED IN ATTIC
(3)	MM	ADDRESSABLE MONITOR MODULE
	DMM	ADDRESSABLE DUAL MONITOR MODULE
	CR	CONTROL RELAY
	DD	DUCT DETECTOR
	V 15	FIRE ALARM VISUAL STROBE/15 CANDELA (WALL MOUNTED)
	V 30	FIRE ALARM VISUAL STROBE/30 CANDELA (WALL MOUNTED)
(c)	V 75	FIRE ALARM VISUAL STROBE/75 CANDELA (WALL MOUNTED)
	SV 30	FIRE ALARM SPEAKER/30 CANDELA VISUAL STROBE (WALL MOUNTED)
	SV 75	FIRE ALARM SPEAKER/75 CANDELA VISUAL STROBE (WALL MOUNTED)
(SP _{W.P.}	, , ,
	WF	WATERFLOW SWITCH AT FIRE SPRINKLER RISER
	TS	TAMPER SWITCH AT FIRE DEPT. CONNECTION "F.D.C."
	B	ELECTRIC BELL (FOR FIRE SPRINKLER RISER)
	E	SUBSCRIPT DENOTES EXISTING SHALL REMAIN
	R	SUBSCRIPT DENOTES EXISTING SHALL REPTAIN SUBSCRIPT DENOTES EXISTING SHALL BE REMOVED
	-	
	—ER—	DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED

1) PROVIDE A DUPLEX RECEPTACLE (SURGE PROTECTED) AS REQUIRED, AT (+15" MIN TO (2) MOUNT J-BOX ONLY FOR (DATA OUTLET) AND STUB ONE 3/4"C INTO ACCESSIBLE 3 PROVIDE A 2-GANG LOW VOLTAGE RAISED RING, DEPT AS REQUIRED AND (+15" MIN. TO BOTTOM OF RING). STUB ONE 1" CONDUIT INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AND ANCHORED TO FRAMING AS REQUIRED. NO HARD CONNECTIONS AT RAISED 4 PROVIDE A 1-GANG LOW VOLTAGE RAISED RING, DEPT AS REQUIRED AND (+15" MIN. TO BOTTOM OF RING). STUB ONE 1" CONDUIT INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AND ANCHORED TO FRAMING AS REQUIRED. NO HARD CONNECTIONS AT RAISED 5 LOCATE (E) 2 x 6 STUD AT 16" O.C. AND FASTEN WALL MOUNT TO STUDS WITH (6) 1/4" x 3" LAG SCREWS, (3) ON TOP ROW OF WALL PLATE AND (3) ON BOTTOM ROW OF WALL PLATE. PRE-DRILL HOLES REQUIRED. REFER TO DETAIL #25 / A2.21. 6 PROVIDE QUADPLEX RECEPTACLE (SURGE PROTECTED) AS REQUIRED, AT (+15" MIN TO 7 LCD TV/MONITOR LOCATION - BCSD TO PROVIDE AND INSTALL. WALL MOUNT BRACKET: 50LBS MAX. TV/MONITOR: 180 LBS MAX. REFER TO DETAIL #25 / A2.21.

NOTES (THIS SHEET ONLY):

ATTIC SPACE ABOVE T-BAR CEILING.

RING. PROVIDE NYLON PULL STRING.

RING. PROVIDE NYLON PULL STRING.

BOTTOM OF BOX).

ELECTRICAL SYMBOLS

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 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, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH 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 I IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED 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 \square MD \square PP \square E $\overline{oldsymbol{U}}$ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

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

ELECTRICAL SYMBOLS NOTES:

- (A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #3/E3.22 FOR RESPECTIVE MOUNTING HEIGHTS.
- (B) AT EXTERIOR LOCATIONS, PROVIDE WEATHER-RESISTANT TYPE G.F.C.I. DUPLEX RECEPTACLES, LEVITON #G5362-WTW OR EQUAL. AT DAMP LOCATIONS, PROVIDE A DIECAST WEATHERPROOF LOCKABLE COVER, RACO #5028-0 OR EQUAL. AT WET LOCATIONS, PROVIDE A DIECAST WEATHERPROOF "WHILE-IN-USE" LOCKABLE COVER, RED DOT #CKSUV OR EQUAL.
- (C) REFER TO FIRE ALARM PLAN, SHEET #E3.20 FOR DEVICE INFORMATION.
- (D) ACUITY CONTROLS #nPOD-KEY-WH. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (E) ACUITY CONTROLS #nPODMA-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (F) ACUITY CONTROLS #nWSX-PDT-LV-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (G) RESERVED
- (H) ACUITY CONTROLS #CAT 5e * J1 OR EQUAL. * ASTERISK INDICATES LENGTH OF CABLE. CABLES ARE AVAILABLE IN 6", 1', 2', 5', 10', 15', 30', AND 50' LENGTHS.
- (J) "nLIGHT" ENABLED LIGHT FIXTURE PER FIXTURE SCHEDULE ON SHEET #EO.01.
- (K) ACUITY CONTROLS #WSD-PDT-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

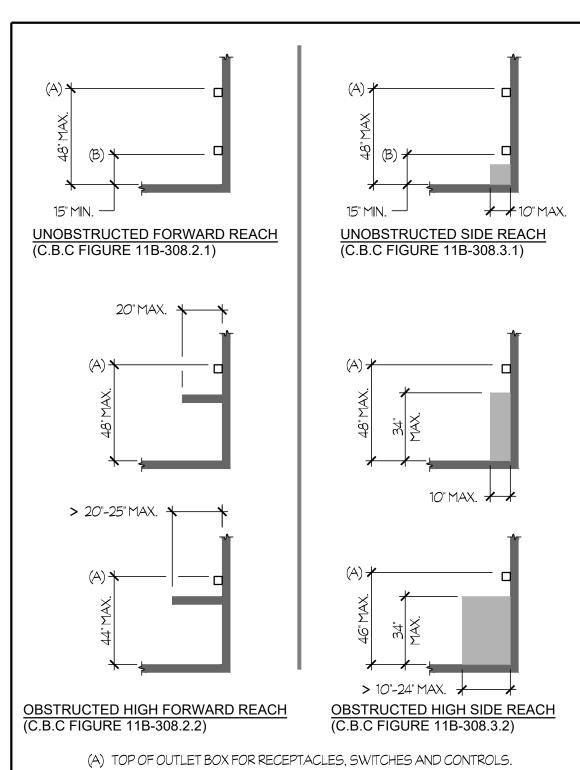
- 2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R.

(2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

- 2019 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R.
- (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEnC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.
- TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES: NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)

- NFPA 720 CARBON MONOXIDE STANDARDS FOR INSTALLATION, DETECTION AND WARNING EQUIPMENT
- ADAAG AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES
- UL 38 MANUAL ACTUATED SIGNALING BOXES. 2008 EDITION
- UL 268 SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION
- UL 268A SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION
- UL 464 AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
- UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)
- UL 864 CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION



GENERAL NOTE

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCES 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.

CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING

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

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

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certificationprovider-program/acceptance.

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

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

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

(B) BOTTOM OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

ELECTRICAL RECEPTACLE.

SWITCH AND CONTROL HEIGHTS

BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 07/27/2023

BAKERSFIELD

CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

ARCHITECTURE **ENGINEERING**

INTERIOR DESIGN

by SOMAM, Inc.

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument ot to be used, in whole or in part for any other project without written authoriza

COPYRIGHT 2020

CODES, NOTES SYMBOLS & FIXTURE SCHED.

5525

Sheet No.: E0.01

9' CEILING HT. —

TEACHING WALL ELEVATION

-66 3-

IRCC-LTI-E (Created 0	ing 04/21)											CALIFORNIA ENI	ERGY COMMISSION
CERTIFICATE OF C	COMPLIANCE												NRCC-L
This document is prescriptive path.		trate complianc	e with requireme	nts in <u>§110.9</u> , <u>§</u>	110	<u>0.12(c), §130.0,</u>	<u>§13</u>	<u>80.1, §140.6,</u> an	d <u>§141.0</u>	<u>(b)2</u> for i	inc	oor lighting scop	es using the
Project Name:	WASHINGTON	MIDDLE SCHOOL	L CENTRAL PLANT	REPLACEMEN	Τ		_	rt Page:					Page 1
Project Address:	1101 NOBLE AV	ENUE BAKERSFI	ELD CA 93305			Da	ate	Prepared:					08-31-2
A. GENERAL INF	ORMATION												
01 Project Loca	ition (city)		BAKEF	RSFIELD	LD 04 Total Conditioned Floor Area (ft ²))		36	,380	
02 Climate Zon				L3				conditioned Flo					<u> </u>
03 Occupancy	Types Within Pro	oject (select all t	hat apply):					ies (Habitable A	•				
Office	Γ	Retail		Warehouse		Hote						Supp	ort Areas
Parking Ga	rage	_ ☐ High-Rise Res	sidential 🔲	Relocatable		Heal	thc		_	(write ir	ո)։		
B. PROJECT SCC)DE												
alculation metho		a new form or use e of Work	se "Save As".			Conditioned	l Sp	aces				Unconditioned	Spaces
		01				02		03				04	05
My I	Project Consists	of (check all tha	t apply):	Ca	lcu	lation Method		Area (ft	2)	Cal	cu	ation Method	Area (ft ²)
✓ New Lighting	g System				Area Category		36,380)				
Altered Light	ting System												
				(6, 2)		26.20							
		10	tal Area of Work	(π²)		36,38	<u> </u>						
	E RESULTS												
. COMPLIANCE		his table savs "E	OOES NOT COMPL	Y" or "COMPLII	ES v	with Exceptional	Co	nditions" refer t	to Table i	D. for au	ide	ınce.	
				140.6(b) (Watt		·		Adjusted Light					Compliance Resu
able Instructions	,,	Allowed Ligh	tilig Power per 🙎			i .	1 1	06	0	7		08	09
Table Instructions Lighting in	01	02	03	04		05	1 1						
conditioned and	01		03	04		05			Adjust				
Table Instructions Lighting in conditioned and unconditioned	01 Complete	02		04 Tailored			≥	Total	PAF Co	ontrol		Total Adjusted	
Lighting in conditioned and unconditioned spaces must not be combined for	01 Complete Building		03 Area Category	04 Tailored §140.6(c)3	=	Total Allowed	2	Designed	PAF Co	ontrol dits	=	(Watts)	
Lighting in conditioned and unconditioned spaces must not be compliance per	01 Complete	02 Area Category	03 Area Category Additional	04 Tailored	=		≥		PAF Co	ontrol dits <u>6(a)2</u>	=	(Watts) *Includes	05 Must be ≥ 08 §140.6
Lighting in conditioned and unconditioned spaces must not be combined for	01 Complete Building	02 Area Category	03 Area Category Additional §140.6(c)2G	04 Tailored §140.6(c)3	=	Total Allowed	2	Designed	PAF Co	ontrol dits 6(a)2	=	(Watts)	
Lighting in conditioned and unconditioned spaces must not be combined per compliance per	01 Complete Building §140.6(c)1	O2 Area Category §140.6(c)2	03 Area Category Additional §140.6(c)2G (+)	04 Tailored §140.6(c)3 (+)	=	Total Allowed	N	Designed (Watts)	PAF Co Cree §140.	ontrol dits 6(a)2	=	(Watts) *Includes	

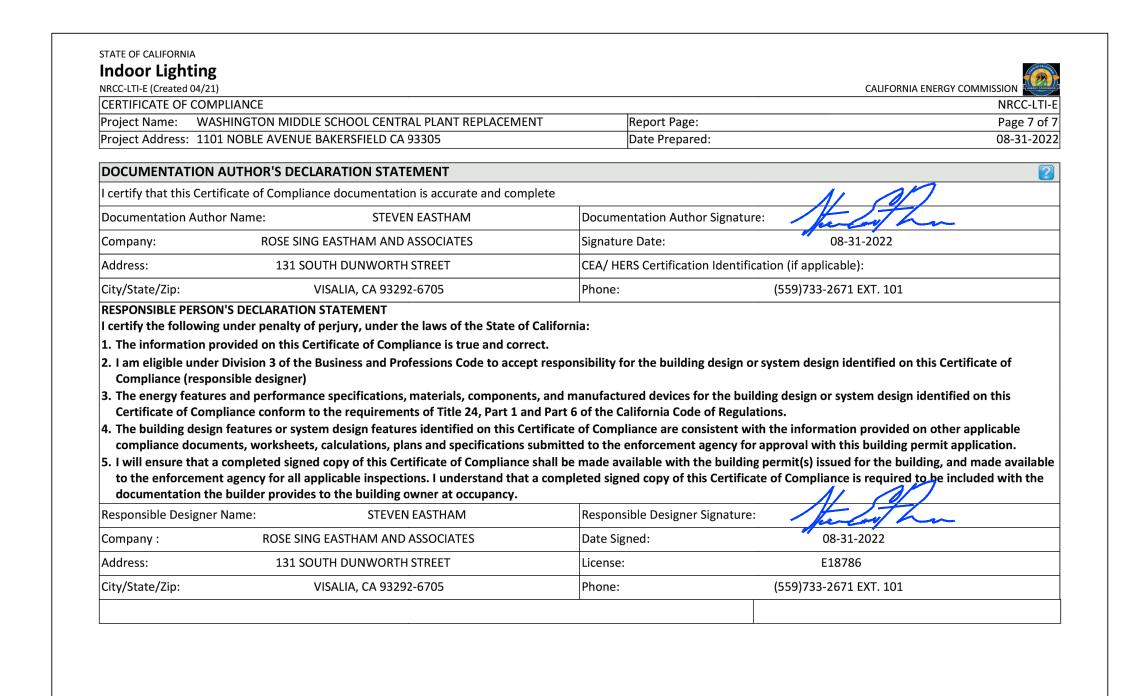
	reated 04/21)							CA	ALIFORNIA ENERGY (OMMISSIO	N ENERGY COMMISSIO
	TE OF COMPLIANCE										CC-LTI-I
Project Nar					NT	Report Page:					ge 2 of 7
Project Add	dress: 1101 NOBLE AVENUE BAKERS	SFIELD	CA 9330	5		Date Prepared	d:			08-	-31-202
					Cont	rols Compliance (S	See Table H for D	Details)	COMPLI	ES	
				Rated	Power Reduct	ion Compliance (S	See Table Q for D	Details)	Not Applic	able	
D. EXCEPT	FIONAL CONDITIONS										?
This table i	s auto-filled with uneditable comme	nts bed	cause of	selections made o	r data entered	l in tables through	out the form.				
No excepti	onal conditions apply to this project										
	ONAL REMARKS										?
This table i	ncludes remarks made by the permi	t applic	ant to th	ne Authority Havin	g Jurisdiction.						· ·
			·								
F. INDOO	R LIGHTING FIXTURE SCHEDULE										7
	uctions: Include all permanent desig	ned lia	htina an	d all portable light	tina in offices.						
	Wattage: Conditioned Spaces			, ,	<u>-</u>						
01	02		03	04	05	06	07	08	09	1	0
Name or		М	odular	Small Aperture	Watts per	How Wattage is	Total number	Exempt per		Field In	spector
Item Tag	Complete Luminaire Description	(Trac	k) Fixture	& Color Change ¹		determined	luminaires	§140.6(a)3	Design Watts	Pass	Fail
A, AE	LED EDGE LITE FLAT PANEL				43	Mfr. Spec ²	425		18,275		
B, BE	LED WRAP		$\overline{\Box}$		39	Mfr. Spec ²	58		2,262		
C, CE	LED WRAP WALL BRACKET				39	Mfr. Spec ²	2		78		
			<u> </u>			Total Designed	d Watts CONDIT	ONED SPACES:	20,615		
			•				,				
FOOTNOT	TE: Design Watts for small aperture o	and col	or chanc	uina luminaires wh	nich aualify ne	r §140.6(a)4B is ac	diusted to be 759	6 of their rated v	wattaae. Table i	- - automa	tically
	adjustment, the permit applicant sh					<u>52 7070 (37 72</u> 75 33	.,,	,			,
² Authority	Having Jurisdiction may ask for Lum	ninaire	cut shee	ts to confirm watt	tage used for d	ompliance per <u>§13</u>	<u>30.0(c)</u> Wattage	used must be th	ne maximum rate	ed for the	
uminaire,	not the lamp.										
	LAR LIGHTING SYSTEMS										?
This Section	n Does Not Apply										
	D LICHTING CONTROLS (Not Inc		DATa\								
	R LIGHTING CONTROLS (Not Inc	uaing	PATS)								?
H. INDOO											

	PLIANCE SHINGTON MIDDLE SCHOOL CENTRAL PL	ANT REDI ACENAEN	JT	Report Page:					RCC-LT		
	1 NOBLE AVENUE BAKERSFIELD CA 9330		N I	Date Prepared:					3-31-20		
				pate i reparea.	,						
	ase include lighting controls for conditio he lighting controls section of the Compl							on of this	table		
Building Level Control											
	01		02						03		
	Mandatory Demand Response				Off Controls			Field Ins	-		
	§110.12(c)				130.1(c)			Pass	Fail		
	Not Required ≤ 10,000 SF			Whole Buil	ding Timeswitch						
Area Level Controls	0.5	0.5	07	1 00	1 00	10	14		1.0		
04	05	06	07	80	09	10	11		12		
Area Description	Complete Building or Area Category	Area Controls	Multi-Level Controls	Shut-Off Controls		Primary/Skylit Daylighting	Daylighting	Secondary Daylighting	Interlocked Systems	Field In	ispect
7 11 GG 2 GG 11 P 11 G 11	Primary Function Area	§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§140.6(d)	§140.6(a)1	Pass	Fai		
CLASSROOMS	Classroom, Lecture, Training, Classroom, Lecture, Training, Vocations	Manual ON/ Manual ON/OFF OFF	Dimmer	OccSensor	Includedd	Includedd					
RESTROOMS	Restroom	Manual ON/ Manual ON/OFF OFF	Dimmeer	Occ.:Sensor	NAA	NAA					
STORAGE	Commercial and Industrial Storage	Manual ON/ Manual ON/OFF OFF	Dimmeer	Occ.:Sensor	NAA	NAA					
ELECTRICAL ROOM	Electrical, Mechanical, Telephone Electrical, Mechanical, Telephone Rooms	Manual ON/ Manual ON/OFF OFF	Dimmeer	Occ.Sensor	NAA	NAA					
LIBRARY	Library - Reading Area	Manual ON/ Manual ON/OFF OFF	Dimmeer	OccaSensor	Includedd	Included					
	n a * require a note in the space below e						.3				
_	nary/Skylight Daylighting: Exempt becau	se less than 120 w	atts of general li	ghting;	Pl	an Sheet Show	ing Daylit Zoi	nes:			
EXCEPTION 1 to §130.	<u>1(d)2</u>			Т							
I. LIGHTING POWER	ALLOWANCE: COMPLETE BUILDING	OR ARFA CATE	GORY METHOR)S							
	mplete the table for each area complying				nods per §140.6(b). Indicate if a	dditional liaht	ting pow	er .		
	<u>6(c)</u> or adjustments per <u>§140.6(a)</u> are bei			-	,	,	J	J ,			
Conditioned Spaces											
Conditioned Spaces											

NRCC-LTI-E (Created 04/21)				CALI	FORNIA ENERGY COMM	
CERTIFICATE OF COMPLIANCE	DLE SCHOOL CENTRAL PLANT REPLACEMENT	Donart Daga	·			NRCC-I
Project Name: WASHINGTON MID Project Address: 1101 NOBLE AVENU		Report Page: Date Prepared:				Page 4 08-31-2
Troject Address. Tiol Noble Avenue	DARCHSTILLE CA 33303	Bute Frepured.				00 31 7
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allo Adjustm Area Category	
CLASSROOM	Classroom, Lecture, Training, Vocational	0.7	28,990	20,293		
STORAGE	Commercial and Industrial Storage	0.6	2,845	1,707		
RESTROOM	Restroom	0.65	2,115	1,374.75		
ELECTRICAL ROOM	Electrical, Mechanical, Telephone Rooms	0.4	415	166		
LIBRARY	Library - Reading Area	0.8	2,015	1,612		
This Section Does Not Apply K. TAILORED METHOD GENERAL	ANCE: AREA CATEGORY METHOD QUALIFYING LIG	TOTAL:	36,380	25,152.75	See Tables J or	P for deta
J. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply K. TAILORED METHOD GENERAL This Section Does Not Apply			36,380	25,152.75	See Tables J or	P for det
This Section Does Not Apply K. TAILORED METHOD GENERAL	LIGHTING POWER ALLOWANCE		36,380	25,152.75	See Tables J or	P for det
This Section Does Not Apply K. TAILORED METHOD GENERAL This Section Does Not Apply	LIGHTING POWER ALLOWANCE		36,380	25,152.75	See Tables J or	P for deta
This Section Does Not Apply K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY		36,380	25,152.75	See Tables J or	P for det
This Section Does Not Apply K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW	LIGHTING POWER ALLOWANCE		36,380	25,152.75	See Tables J or	P for det
This Section Does Not Apply K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOW	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING VANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS		36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply O. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING VANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS VANCE: TAILORED VERY VALUABLE MERCHANDISE	HTING SYSTEM	36,380	25,152.75	See Tables J or	P for deta
K. TAILORED METHOD GENERAL This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply O. ADDITIONAL LIGHTING ALLOW This Section Does Not Apply	LIGHTING POWER ALLOWANCE ANCE: TAILORED WALL DISPLAY VANCE: TAILORED FLOOR AND TASK LIGHTING VANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS	HTING SYSTEM	36,380	25,152.75	See Tables J or	P for deta

Project Name	OF COMP	IANCE			NRCC-LT	
	e: WASI	HINGTON MIDDLE SCHOOL CENTRAL PLANT REPLACEMENT	eport Page:		Page 5 c	
Project Addre	ess: 1101	NOBLE AVENUE BAKERSFIELD CA 93305	ate Prepared:		08-31-20	
Q. RATED P	OWER RE	DUCTION COMPLIANCE FOR ALTERATIONS				
This Section I	Does Not A	pply				
R. 80% LIGH	HTING PO	WER FOR ALTERATIONS - CONTROLS EXCEPTIONS				
This Section I	Does Not A	pply				
S. DAYLIGH	T DESIGN	POWER ADJUSTMENT FACTOR (PAF)				
This Section I		, ,		l		
T DECLADA	TION OF	REQUIRED CERTIFICATES OF INSTALLATION				
		ctions have been made based on information provided in previous tables of t	this document If any selection needs to be changed in	lagga avalgin	why in	
Table E. Addi	itional Ren	narks. These documents must be provided to the building inspector during co 2019_compliance_documents/Nonresidential_Documents/NRCI/				
YES	NO	Form/Title		Field Inspector		
				Pass	Fail	
•	0	NRCI-LTI-01-E - Must be submitted for all buildings				
0	•	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Erecognized for compliance.	Energy Management Control System (EMCS), to be			
0	•	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an room, a multipurpose room, or a theater to be recognized for compliance.				
0		NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to	be recognized for compliance.			
0	•	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a vid compliance.	eo conferencing studio to be recognized for			

ess: 1101	HINGTON MIDDLE SCHOOL CENTRAL PLANT REPLACEMENT		N		
ess: 1101				IRCO	
		Report Page:		age	
TIOLIC	NOBLE AVENUE BAKERSFIELD CA 93305	Date Prepared:	0	8-31	
	REQUIRED CERTIFICATES OF ACCEPTANCE				
tional Ren		during construction and any with "-A" in the for	m name must be completed th		
NO	Form/7		Field Inspe		
			Pass	F	
0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and au	utomatic time switch controls.		[
0	NRCA-LTI-03-A - Must be submitted for automatic daylight contro	ols.		[
•	NRCA-LTI-04-A - Must be submitted for demand responsive lighting	ng controls.		[
•	NRCA-LTI-05-A - Must be submitted for institutional tuning power	r adjustment factor (PAF).		[
 NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF). 	r adjustment factors (PAF).				
	NO O O O O O	NO NRCA-LTI-03-A - Must be submitted for occupancy sensors and au NRCA-LTI-04-A - Must be submitted for demand responsive lightin NRCA-LTI-05-A - Must be submitted for institutional tuning power	NO NRCA-LTI-03-A - Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	NO Form/Title Pass NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. NRCA-LTI-03-A - Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	



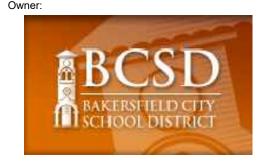
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS DATE: 07/27/2023



April 2021

BAKERSFIELD CITY SCHOOL DISTRICT

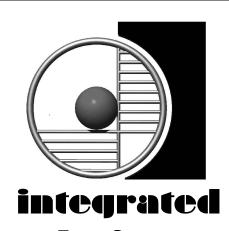
1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

amp:

No. E-18786 Exp. 6/30/23

Rose Sing Eastham & Associates
Electrical Consultants

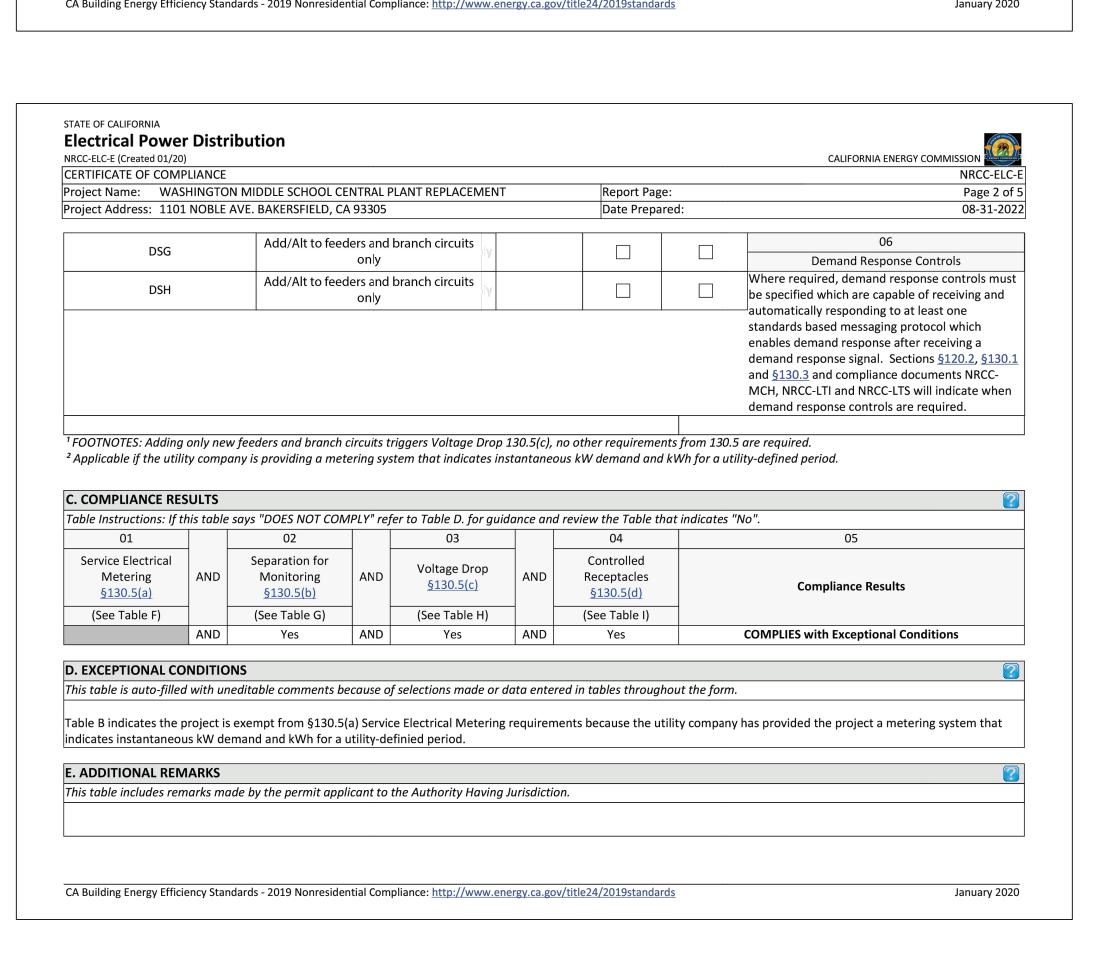
131 S. Dunworth – (559)733–2671
Visalia, California 93292–6705

INDOOR LIGHTING COMPLIANCE

5525

E0.02

nandatory requirements ectrical service systems	s in <u>§130.5</u> for e				NRCC-EL
	s in <u>§130.5</u> for e				
ectrical service systems					ntial, high-rise residential and
	in these occupi	ancies will also i	use this documer	it to demonstrate	compliance per §141.0(a) or
AL PLANT REPLACEMEN	JT	Report Pag	e:		Page 1
305		Date Prepa			08-31-2
BAKERSFIELD	02 (Dccupancy Type	s Within Project	:	
Warehouse					Support Areas
Relocatable	⊟н	ealthcare Facili			
				, ,	
that are within the coor	a af tha mannait	, amplication			
· · · · · · · · · · · · · · · · · · ·		1	OF		
	03	04	03		
Electrical Service Designation/ Description 02 Scope of Work ¹		Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)		
· · · Pr I	1,330	✓			
1 W I					
l W					
11.0/1					
113//					
1 W I					
	☐ Warehouse ☐ Relocatable that are within the scop	Warehouse Hellocatable Hellocat	Warehouse Hotel/ Motel Relocatable Healthcare Facility that are within the scope of the permit application. O2 O3 O4 Wice equipment & ter and branch circuits by an and branch circ	Warehouse Healthcare Facilities Other Relocatable Healthcare Facilities Other Relocatable Healthcare Facilities Other Relocatable Healthcare Facilities Other Relocatable Utility Provided Metering System Exception to §130.5(a) ² \$130.5(a)&(b) Provided Article 517 Exception to §130.5(a) ² \$130.5(a)&(b) Provided Article 517 Exception to §130.5(a)&(b) Provided Artic	Warehouse



RCC-ELC-E (Created 01/20)				CALIFORNIA ENERG		$\overline{}$
ERTIFICATE OF COMPLIANCE						CC-EL
<u> </u>		ENTRAL PLANT REPLACEMENT	Report Page:			age 3 c
roject Address: 1101 NOBLE AVE	BAKERSFIELD, CA	A 93305	Date Prepared:		08	3-31-20
SERVICE ELECTRICAL METERI	NG					(
his Section Does Not Apply						
6. SEPARATION OF ELECTRICAL	CIRCUITS FOR	ENERGY MONITORING				
				ns to demonstrate compliance with <u>§130</u> ed in the service do not need to be showi		the
lectrical Service Designation/Des	cription:	MSB				
01		02	03	04	С)5
Load Type per <u>Table 13</u>	30.5-B ¹	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method ²	Location of Requirements in Construction	Field In	specto
				Documents	Pass	Fai
HVAC systems and comp	onents	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 2	E4.02		
Lighting including exit, egress	and exterior	All lighting disaggregated by floor, typ or area	Method 2	E4.02		
Plug Loads and appliances	s < 25kVA	All plug load separated by floor, type of area All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	g Method 2	E4.02		
FOOTNOTES: For each separate lo Method 1: Switchboards/ motor o	oad type, up to 10 control centers/ p	Method above, please indicate how comp % of the connected load may be of any tangle anelboard loads disaggregated for each anelboard supply other distribution equi	type. load type			
Method 3: Branch circuits serve low Method 4: Complete metering system See Chapter 8 of the Nonresidenti	ad types individu tem measures ar	ally & provisions for adding future brand	ch curcuit monitoring	,		
I. VOLTAGE DROP						
				n systems, or alterations that add, modify t demonstrate compliance per <u>§141.0(b)</u> 2		both
01		02	03	04	C)5
Electrical Service		nge Drop on Installed Feeder/Branch nductors Compliance Method	Location of Voltage Dr	op Sheet Number for Voltage Dro Calculations in Construction	p Field In	specto
Designation/ Description	i irciiit (o	nauctors Compliance Wernon	Calculations ¹	Documents	Pass	Fai

	reated 01/20) E OF COMP	LIANCE	+				ı	CALIFORNIA ENERGY		RCC-ELC
Project Nan			IDDLE SCHOOL CENTRAL PI	LANT REPLACE	MENT	Report Page:			Pa	age 4 of
Project Add	lress: 1101	NOBLE AVE.	BAKERSFIELD, CA 93305			Date Prepared:	,		80	3-31-202
	04		I	22		22				\
	01 02				03	Chart	04		05	
Electrical Service Combined Voltage Drop on Installed Feeder/Branch Designation/ Description Circuit Conductors Compliance Method		Location of Voltage Dro Calculations ¹	nn I	Sheet Number for Voltage Drop Calculations in Construction Documents		Field Inspector Pass Fail				
	MSB		✓Voltage drop < 5%	Permitted Code (Exc §130.5(c)		In construction docume	nts	E4.02		
		-		•		ase indicate where the exceptle the construction documer			1	- <i>.</i> .
Table Instru	uctions: Plea	se complete		or complete i	replacement el	lectrical power distribution s				
controlled o		olled recept		office areas, lo	bbies, confere	nce rooms, kitchen areas in				
	01		02			03	04	05		06
	Room Name or Description		Location/ Type of Co Receptacles		9	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements	Field Inspector Pass Fail	
	NA		NA: No applicable space this service	types on						
								Add Row	Remo	ve Last
* If "Other*	*" is selected	d under Com	pliance Method above, ple	ase indicate h	ow compliance	e has been achieved in the s	pace provided b	elow.		
J. DECLAR	ATION OF	REQUIRED	CERTIFICATES OF INSTA	LLATION						[
Table E. Ad	ditional Ren	narks. These	e documents must be provi	ded to the bui	ilding inspector	tables of this document. If r during construction and ca	•	•	•	vhy in
YES	NO	2013_001115	pliance_documents/Nonresidential_Documents/NRCI/ Form/Title						Field Inspector Pass Fail	
•	0	NRCI-ELC-	C-01-E - Must be submitted for all buildings.							Fail
	ATION OF	REQUIRED	CERTIFICATES OF ACCE	PTANCE						[



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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

January 2020

1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

Stamp:

heet Title

ELECTRICAL POWER DISTRIBUTION

5525

E0.03



1 REFER TO ENLARGED SITE ELECTRICAL PLAN - DEMOLITION, SHEET #E1.01 AND ENLARGED SITE ELECTRICAL PLAN - NEW, SHEET #E1.02 FOR ADDITIONAL WORK IN THIS AREA.

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET

Project Name:

BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

WASHINGTON

MIDDLE SCHOOL

1101 NOBLE AVENUE

BAKERSFIELD, CA 93305

integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

É: design@somam.com integrateddesigns.com

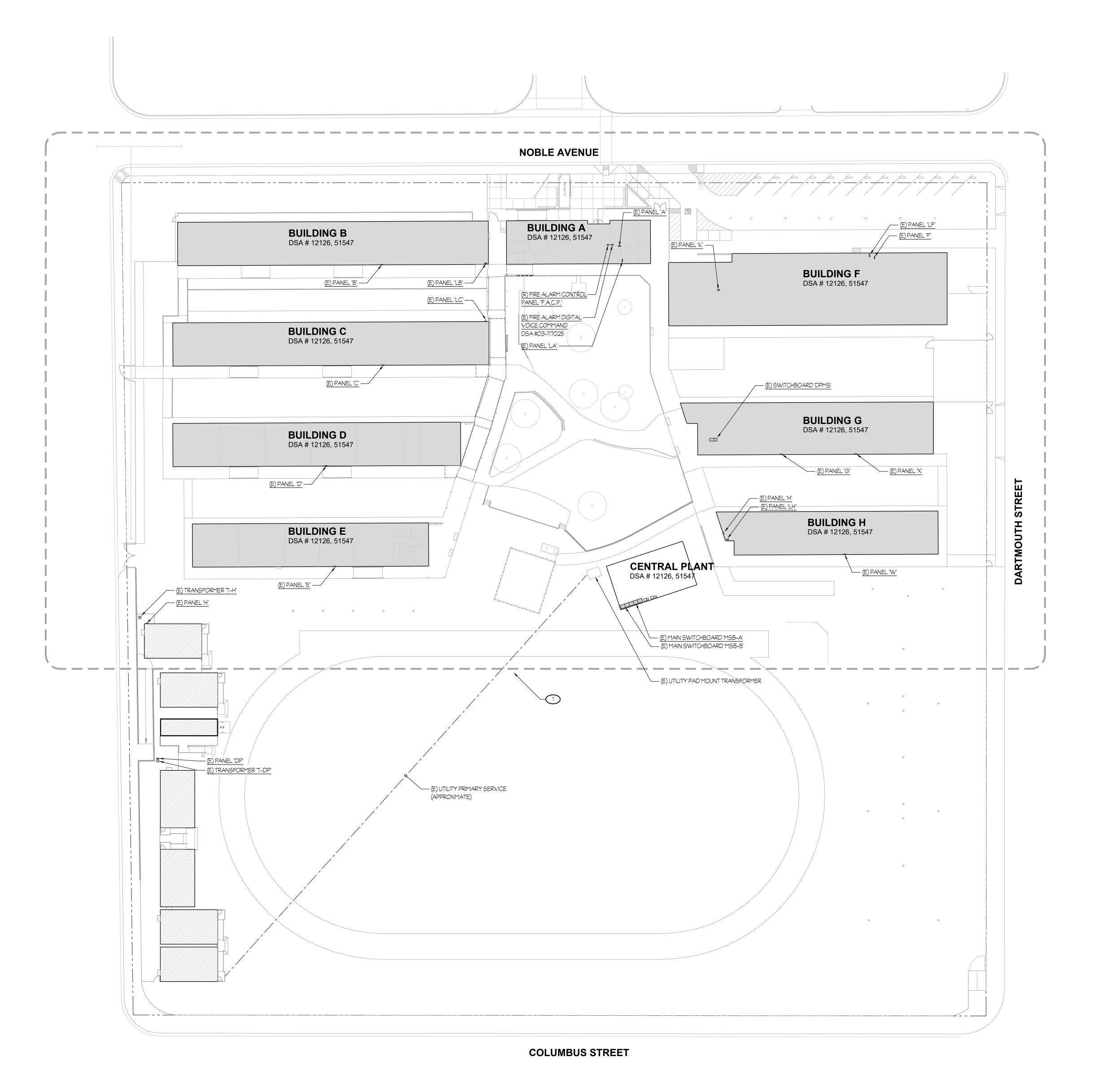
Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

COPYRIGHT 2020

ELECTRICAL

PLAN



SITE ELECTRICAL PLAN

CENTRAL PLANT REPLACEMENT

EQUIPMENT BID PACKAGE 12/6/22

SCALE: 1" = 30'-0'

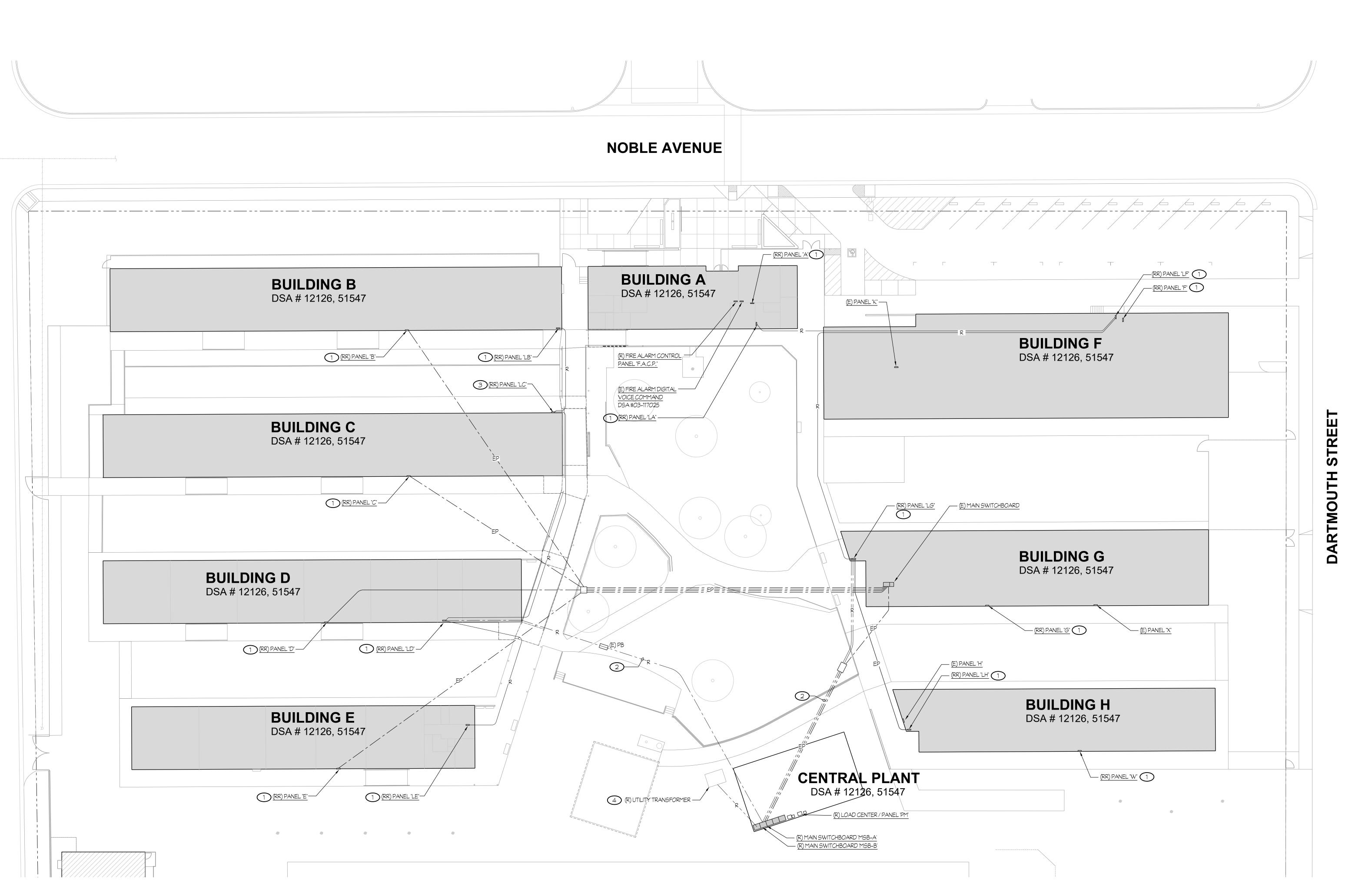


5525 E1.00

- EXISTING PANEL SHALL BE REPLACED IN SAME LOCATION. PROVIDE NEW FEED PER SHEET #E1.02 AND ONE-LINE DIAGRAM, SHEET #E4.01. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
- 2 CONDUCTORS SHALL BE REMOVED FROM EXISTING CONDUIT(S) PER ONE LINE DIAGRAM EXISTING CONDUIT ALLOWED TO BE ABANDONED IN PLACE AND MARKED 'SPARE'.
- 3 EXISTING PANEL SHALL BE REPLACED IN SAME LOCATION. PROVIDE NEW FEED PER SHEET #E1.02 AND ONE-LINE DIAGRAM, SHEET #E4.01. REFER TO DETAIL #9/E5.00 FOR MOUNTING REQUIREMENTS.
- COORDINATE WITH UTILITY FOR REMOVAL OF EXISTING PAD MOUNT TRANSFORMER.
 EXISTING PRIMARY CONNECTION SHALL BE EXTENDED TO NEW MAIN SERVICE LOCATION PER APPROVED UTILITY DRAWINGS.

GENERAL NOTE:

CONTRACTOR SHALL SURVEY ALL UNDERGROUND ROUTES FOR EXISTING UTILITIES.



ENLARGED SITE ELECTRICAL PLAN-DEMOLITION

CENTRAL PLANT REPLACEMENT

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visolio, Colifornio 93292-6705

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023

IDENTIFICATION STAMP

BCSD

RAKERSFIELD CITY
SCHOOL DISTRICT

BAKERSFIELD

CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

INTERIOR DESIGN

Ownership of Documents
his document, the ideas and designs incorporated herein, as an instrumen of sessional Service is the property of Integrated Designs by SOMAM Inc. are to be used, in whole or in part for any other project without written authoriz

COPYRIGHT 2020

Stamp:

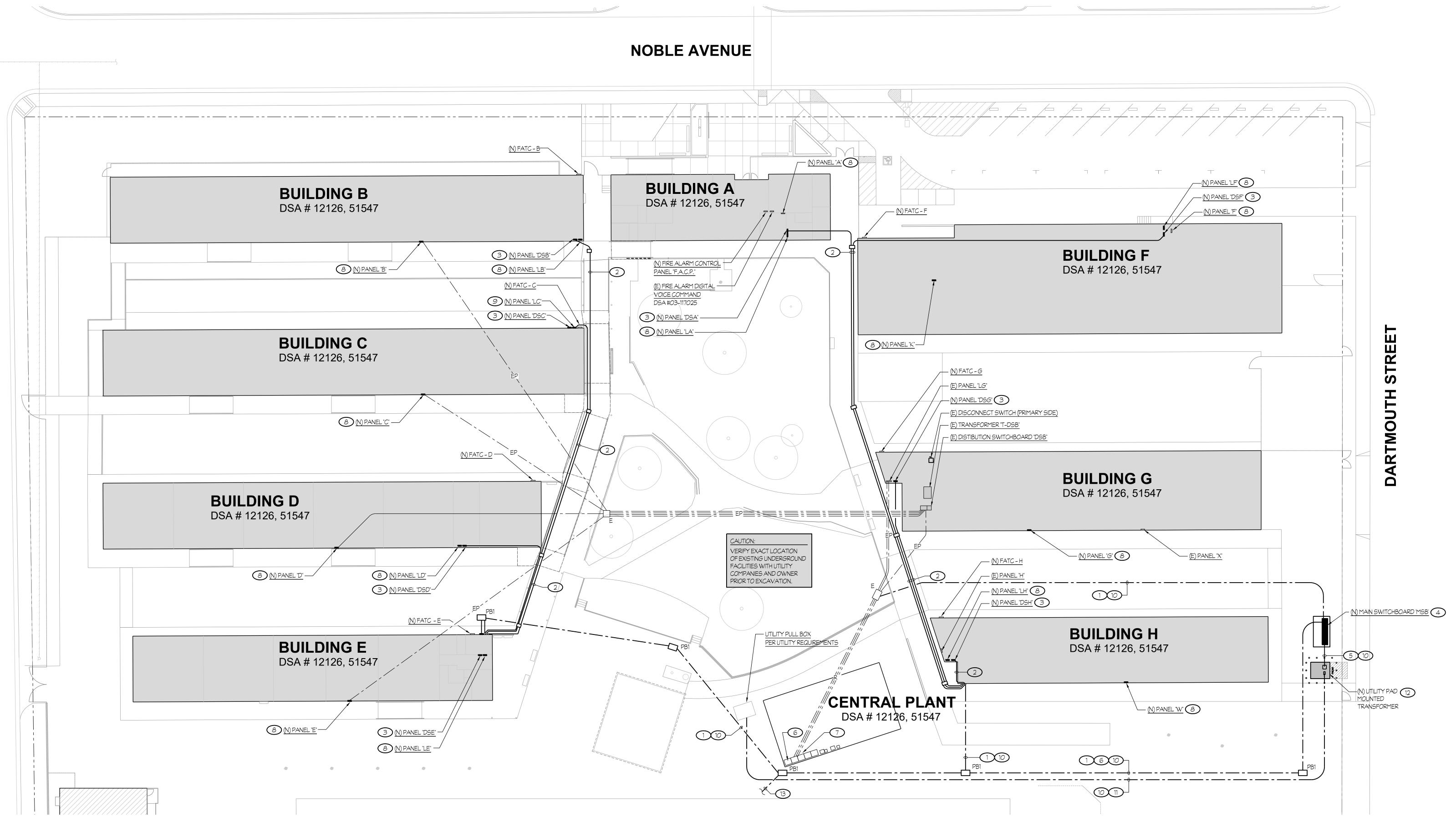
heet Title

ENLARGED SITE ELECTRICAL PLAN-DEMO

5525

E1.01

- 1 NEW CONDUIT AND CONDUCTORS PER ONE LINE DIAGRAM.
- 2 ROUTE CONDUIT EXPOSED ON TOP SIDE OF COVERED WALKWAY. TYPICAL. REFER TO DETAILS #15/E5.00, #16/E5.00, \$ #11/E5.00 FOR TIE IN TO EACH BUILDING.
- 3 REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
- 4 REFER TO ONE LINE DIAGRAM SHEET #E4.01 AND DETAIL #7/E5.00 FOR ADDITIONAL REQUIREMENTS.
- 5 PROVIDE NEW CONDUIT PER APPROVED UTILITY DRAWINGS EXPECTED TO BE (6) 4" CONDUITS.
- 6 PROVIDE TEMPORARY CONNECTION TO CHILLER SECTION FOR OPERATION OF EQUIPMENT DURING CONSTRUCTION PHASES. CONNECTION SHALL BE REMOVED AT END OF PROJECT.
- (7) EXISTING BRANCH CIRCUITS FOR PANELS "DP" AND H"H" SHALL BE INTERCEPTED AND EXTENDED TO NEW MAIN SWITCHBOARD "MSB" AS REQUIRED. REFER TO ONE LINE DIAGRAMS ON SHEETS #E4.00 AND #E4.01.
- 8 REPLACE EXISTING PANEL WITH NEW AND CONNECT TO NEW DISTRIBUTION PANEL PER ONE LINE DIAGRAM ON SHEET #E4.02. REFER TO DETAIL #6/E5.00 FOR SURFACE MOUNTING REQUIREMENTS, AND DETAIL #14/E5.00 FOR FLUSH MOUNTING REQUIREMENTS
- 9 REPLACE EXISTING PANEL WITH NEW AND CONNECT TO NEW DISTRIBUTION PANEL PER ONE LINE DIAGRAM ON SHEET #E4.02. REFER TO DETAIL #9/E5.00 FOR MOUNTING REQUIREMENTS.
- 10) REFER TO TRENCH DETAIL #4/E5.00 FOR REQUIREMENTS.
- PROVIDE NEW CONDUIT PER APPROVED UTILITY DRAWINGS EXPECTED TO BE (1) 5" CONDUIT. COORDINATE UTILITY CONNECTION LOCATION WITH APPROVED UTILITY DRAWINGS.
- 12 PROVIDE PAD PER PG\$E STYLE IIE PER PG\$E STANDARD # 045292 TO BE VERIFIED WITH APPROVED UTILITY DRAWINGS. REFER TO DETAIL #2 / E5.01.
- (13) EXISTING CONDUIT / CONDUCTORS TO PANELS "DP" AND "H", INTERCEPT AND CONNECT TO NEW CIRCUITS, PER ONE-LINE DIAGRAM ON SHEET #E4.01.



ENLARGED SITE ELECTRICAL PLAN - NEW

CENTRAL PLANT REPLACEMENT

Rose Sing Eastham & Associates Electrical Consultants 131 S. Dunworth — (559)733—2671 Visalia, California 93292—6705

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 07/27/2023

BAKERSFIELD

CITY SCHOOL DISTRICT 1300 BAKER STREET

BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 É: design@somam.com integrateddesigns.com

Ownership of Documents COPYRIGHT 2020

ENLARGED SITE ELECTRICAL PLAN-NEW

5525

E1.02

SINDENDLES OF SERVICE STREET O

NOTES (THIS SHEET ONLY):

- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":

 DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT

 TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
- TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N..
 EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR
 ANY UPSTREAM DEVICES REMOVED.
- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS

DATE: 07/27/2023

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

WASHINGTON

MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

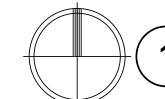
6011 N. FRESNO STREET, SUITE 130

FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

Ownership of Documents

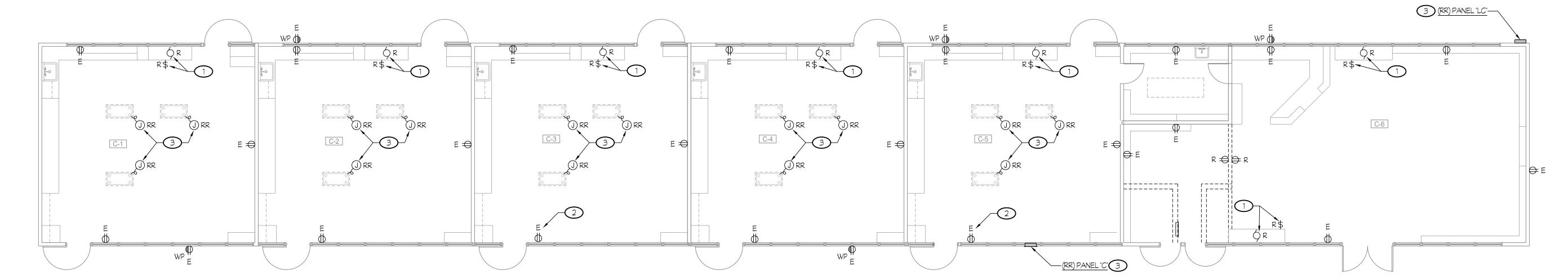
This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.



DEMOLITION POWER PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

ALE: 1/8" = 1'-

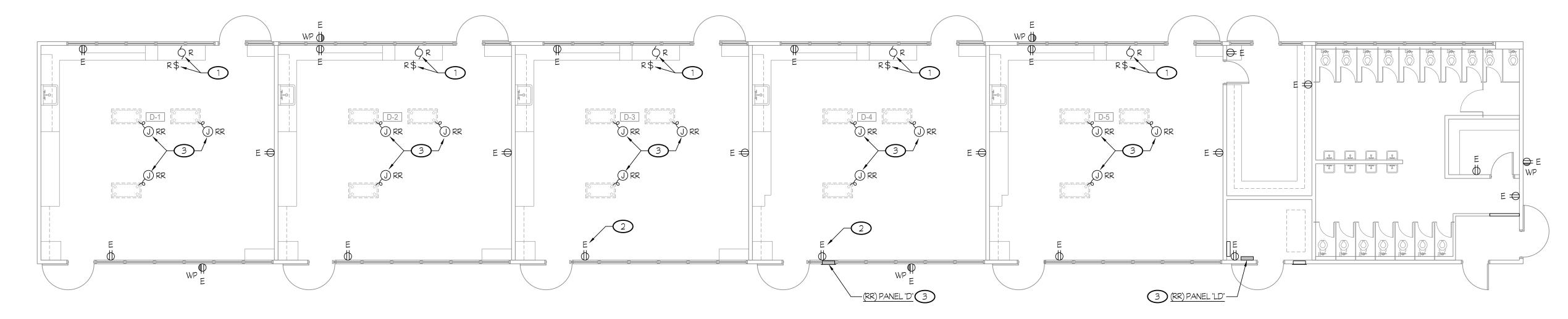


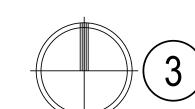
2

DEMOLITION POWER PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

ALE: 1/8" = 1'-





DEMOLITION POWER PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT

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

P QR E R\$	QR QR E E	R\$ 1	E D E
E-1 JRR JRR JRR JRR	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	E-4 PR	3 (RR) PANEL "LE" E
ØRR		D RR E €	E E E
E B WP E		(RR) PANEL "E" (3)	E RS E WP E

	ROOM LEGEND			ROOM LEGEND
#	ROOM NAME		#	ROOM NAME
B-1	CLASSROOM		C-1	CLASSROOM
B-2	CLASSROOM		C-2	CLASSROOM
B-3	CLASSROOM		C-3	CLASSROOM
B-4	CLASSROOM		C-4	CLASSROOM
B-5	CLASSROOM		C-5	CLASSROOM
B-6	SCIENCE CLASSROOM		C-6	LIBRARY

ROOM LEGEND			ROOM LEGEND		
#	ROOM NAME		#	ROOM NAME	
-1	CLASSROOM		E-1	CLASSROOM	
-2	CLASSROOM		E-2	CLASSROOM	
)-3	CLASSROOM		E-3	CLASSROOM	
0-4	CLASSROOM		E-4	CLASSROOM	
0-5	CLASSROOM				

DEMOLITION POWER PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

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

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth – (559)733–2671
Visalia, California 93292–6705

Sheet Title:

DEMOLITION
POWER PLANS

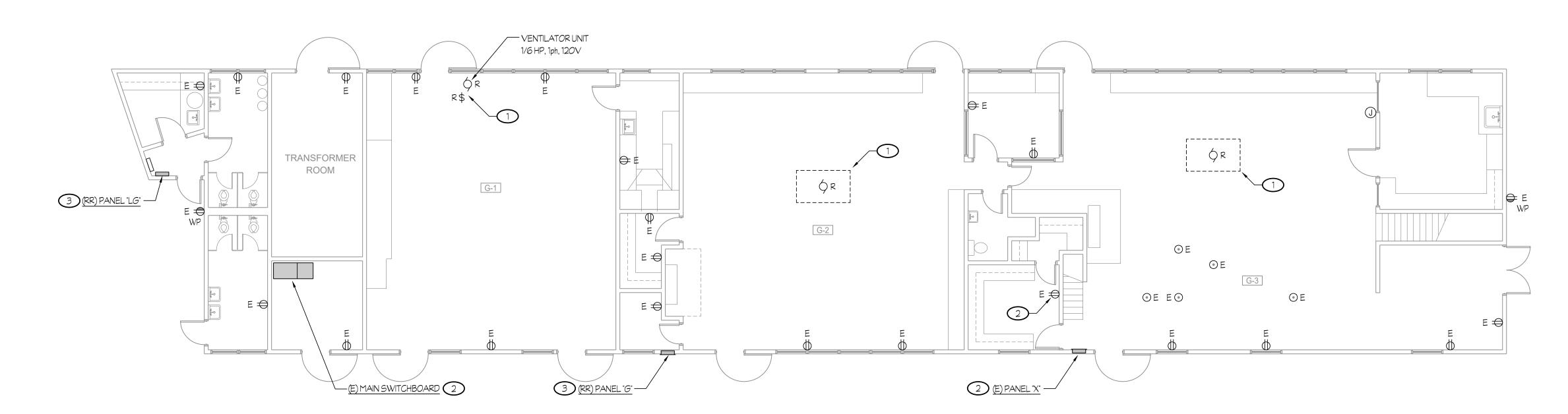
BLDGS "B, C, D & E"
5525

E2.00

DEMOLITION POWER PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

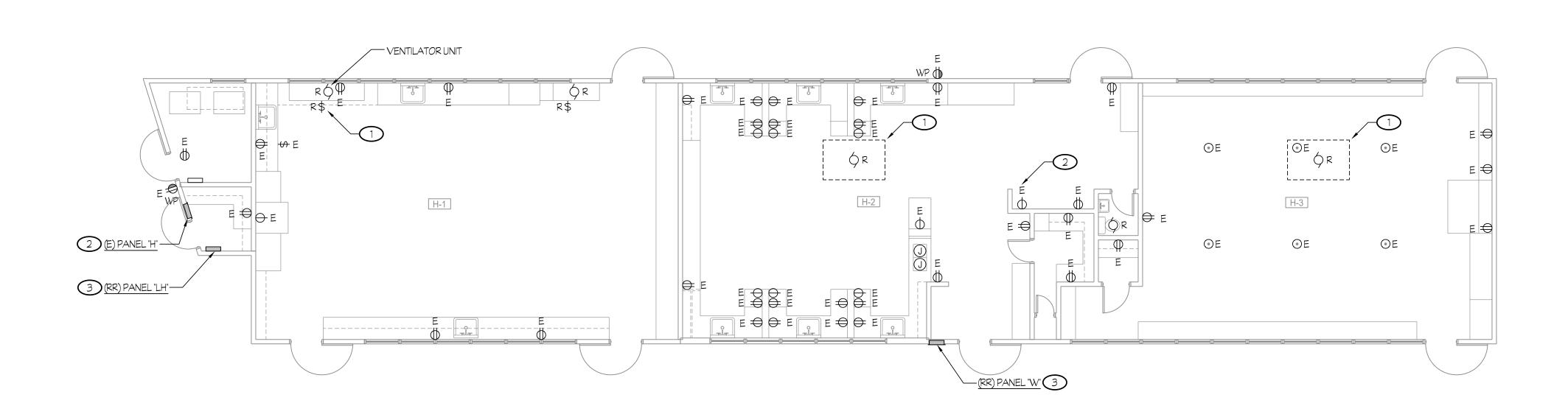
SCALE: 1/8" = 1'-0"



DEMOLITION POWER PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

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



DEMOLITION POWER PLAN - BUILDING "H"

CENTRAL PLANT REPLACEMENT

NOTES (THIS SHEET ONLY):

- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":
 DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT
 TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
- TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N..
 EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

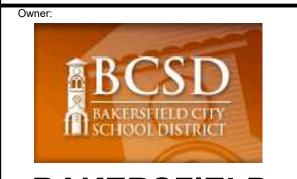
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS ☑ FLS ☑ ACS □

DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE
ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887

É: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

G-1	MUSIC CLASSROOM
G-2	METAL SHOP CLASSROOM
G-3	WOOD SHOP CLASSROOM
G-4	LOFT
G-5	LOFT
	ROOM LEGEND

	ROOM LEGEND					
#	ROOM NAME					
H-1	ART/CRAFTS CLASSROOM					
H-2	HOMEMAKING CLASSROOM					
H-3	HOMEMAKING CLASSROOM					

ROOM LEGEND

ROOM LEGEND

ROOM NAME

F-1 CONFERENCE

F-3 MULTI-PURPOSE

F-5 MUSIC CLASSROOM

F-2 KITCHEN

F-4 PLATFORM



DEMOLITION POWER PLANS -BLDG "F, G &H"

5525

E2.01

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":
 DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT
 TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
- TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N.. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- 3 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

WASHINGTON

MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130

FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

Ownership of Documents his document, the ideas and designs incorporated herein, as an instrument rofessional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

DEMOLITION LIGHTING PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

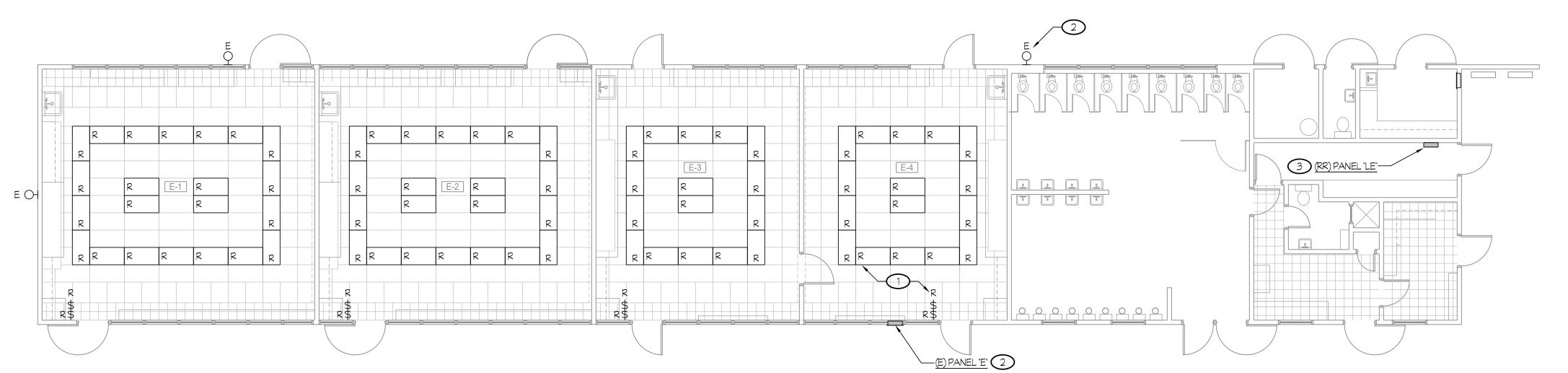
(RR) PANEL "LC"—

DEMOLITION LIGHTING PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

DEMOLITION LIGHTING PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT



B-3	CLASSROOM	C-3	CLASSROOM
B-4	CLASSROOM	C-4	CLASSROOM
B-5	CLASSROOM	C-5	CLASSROOM
D.G	SCIENCE CLASSROOM	C-6	LIBRARY
B-6	COILINGE OF (COIN)	0 0	
D-0	COLLINOL OLINOCINO		
D-0	ROOM LEGEND		ROOM LEGEND
#		#	
	ROOM LEGEND		ROOM LEGEND

ROOM LEGEND

B-1 CLASSROOM

ROOM NAME

	ROOM LEGEND		ROOM LEGEND	Sheet Title:
#	ROOM NAME	#	ROOM NAME	DEMOLITION
D-1	CLASSROOM	E-1	CLASSROOM	LIGHTING PLANS
D-2	CLASSROOM	E-2	CLASSROOM	LIGHTING PLANS
D-3	CLASSROOM	E-3	CLASSROOM	BLDGS "B, C, D & E"
D-4	CLASSROOM	E-4	CLASSROOM	IDLUGO D, C, D & E
D-5	CLASSROOM		_	, , ,

Exp. 6/30/23 Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

5525

ROOM LEGEND

C-1 CLASSROOM

ROOM NAME

E2.02

DEMOLITION LIGHTING PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

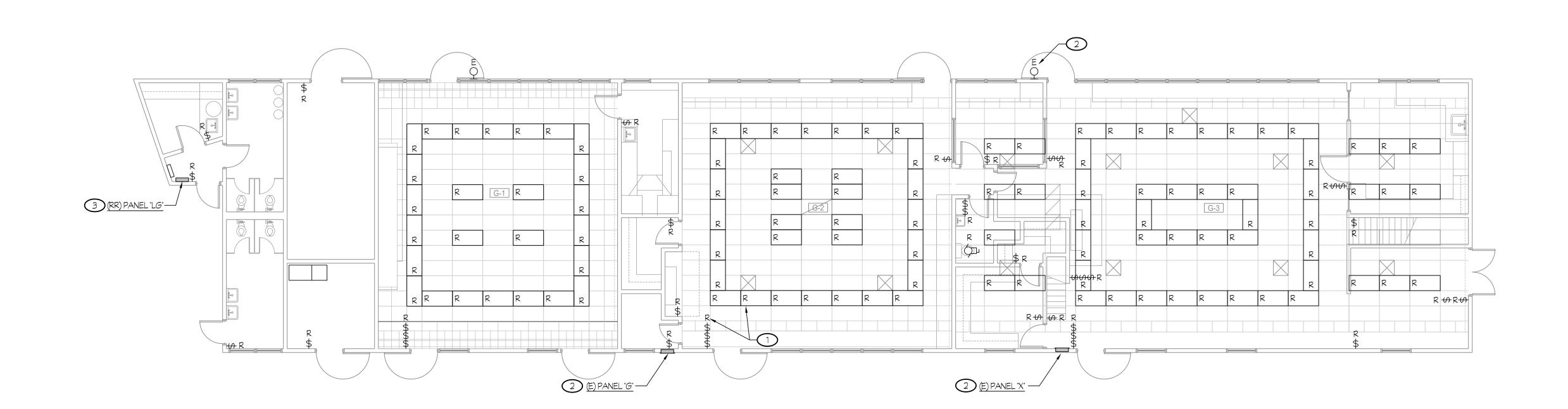
SCALE: 1/8" = 1'-6

DEMOLITION LIGHTING PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

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

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



3 EMPARELY 3

DEMOLITION LIGHTING PLAN - BUILDING "H"

DEMOLITION LIGHTING PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

CENTRAL PLANT REPLACEMENT

NOTES (THIS SHEET ONLY):

TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":

DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT

TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..

TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N..
EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR
ANY UPSTREAM DEVICES REMOVED.

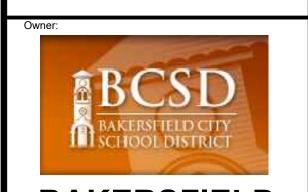
TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATE EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



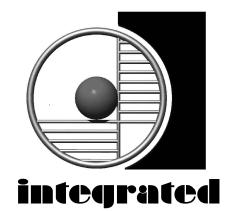
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

ROOM LEGEND

ROOM NAME

G-1 MUSIC CLASSROOM

G-2 METAL SHOP CLASSROOM

G-3 WOOD SHOP CLASSROOM

G-4 LOFT

G-5 LOFT

ROOM LEGEND

-1 CONFERENCE

-3 MULTI-PURPOSE

5 MUSIC CLASSROOM

-2 KITCHEN

-4 PLATFORM

ROOM NAME

ROOM LEGEND

ROOM NAME

H-1 ART/CRAFTS CLASSROOM

H-2 HOMEMAKING CLASSROOM

H-3 HOMEMAKING CLASSROOM

BLDG "F, G &H"
5525

E2.03

DEMOLITION

LIGHTING PLANS -

Release: DSA BACKCHECK Issue Date: 06-13-2023

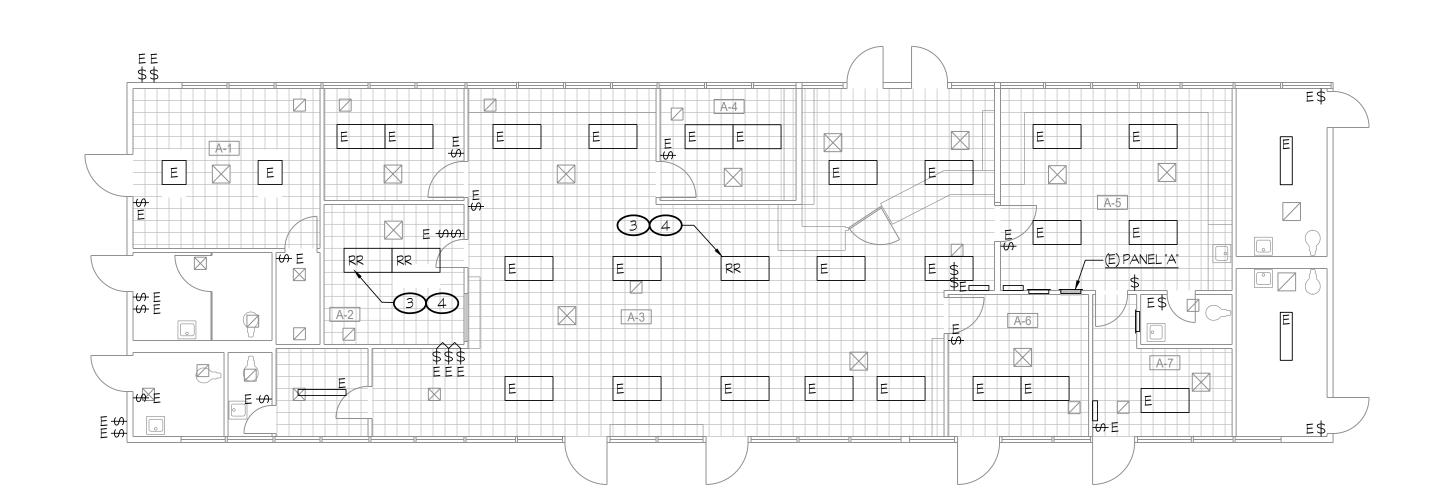
Rose Sing Eastham & Associates
Electrical Consultants

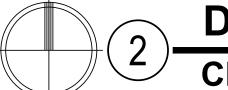
131 S. Dunworth – (559)733–2671
Visalia, California 93292–6705

DEMOLITION POWER PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

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





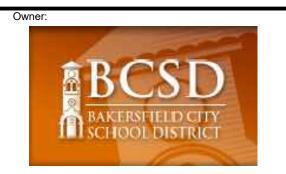
2 DEMOLITION LIGHTING PLAN - BUILDING "A" CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":
 DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
- TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N.. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- 3 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATE EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.
- 4 COORDINATE WITH CONTRACTOR. IF REQUIRED, REMOVE AND REINSTALL LIGHT FIXTURES REQUIRED TO CLEAR WAY FOR DEMOLITION. OTHERWISE, EXISTING LIGHT FIXTURES TO REMAIN. REINSTALL LIGHT FIXTURE, PER DETAIL #2/E5.00.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>



CITY SCHOOL DISTRICT

BAKERSFIELD

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument Professional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

ROOM LEGEND

A-1 TEACHERS LOUNGE

A-2 PRINCIPAL

A-3 RECEPTION
A-4 COUNSELOR

A-7 CHECK OUT

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

A-5 SUPPLIES
A-6 VICE PRINCIPAL

ROOM NAME

No. E-18786

Exp. 6/30/23

DEMOLITION ELECTRICAL PLAN - BUILDING "A"

5525

E2.04

- COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTROLLER AS
 - REPLACE EXISTING PANEL WITH NEW AND CONNECT PER ONE-LINE DIAGRAM ON SHEET #E4.02. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
- 3 REFER TO DETAIL #2/EO.01 FOR TYPICAL TEACHER WALL ELEVATION.
- 4 CONNECT TO EXISTING 120V CIRCUIT.
- PROVIDE (1) 20A CIRCUIT BREAKER IN EXISTING PANEL MATCHING STYLE, TYPE, AND RATING. ACCEPTABLE TO CONNECT TO SPARE BREAKER AS AVAILABLE.
- 6 RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.
- 7 REPLACE EXISTING PANEL WITH NEW. NEW PANEL SHALL FACE INTERIOR OF BUILDING. INSTALL PER DETAIL #14/E5.00. EXTERIOR WALL SHALL BE PATCHED AS REQUIRED.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

BAKERSFIELD

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:

CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents his document, the ideas and designs incorporated herein, as an instrument rofessional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

ROOM LEGEND

ROOM LEGEND

ROOM NAME

CLASSROOM

CLASSROOM

CLASSROOM

CLASSROOM

CLASSROOM

E-4 CLASSROOM

POWER PLANS BLDGS "B, C, D & E"

5525

E2.10

Release: DSA BACKCHECK Issue Date: 06-13-2023

NEW POWER PLAN - BUILDING "B"

CENTRAL PLANT REPLACEMENT

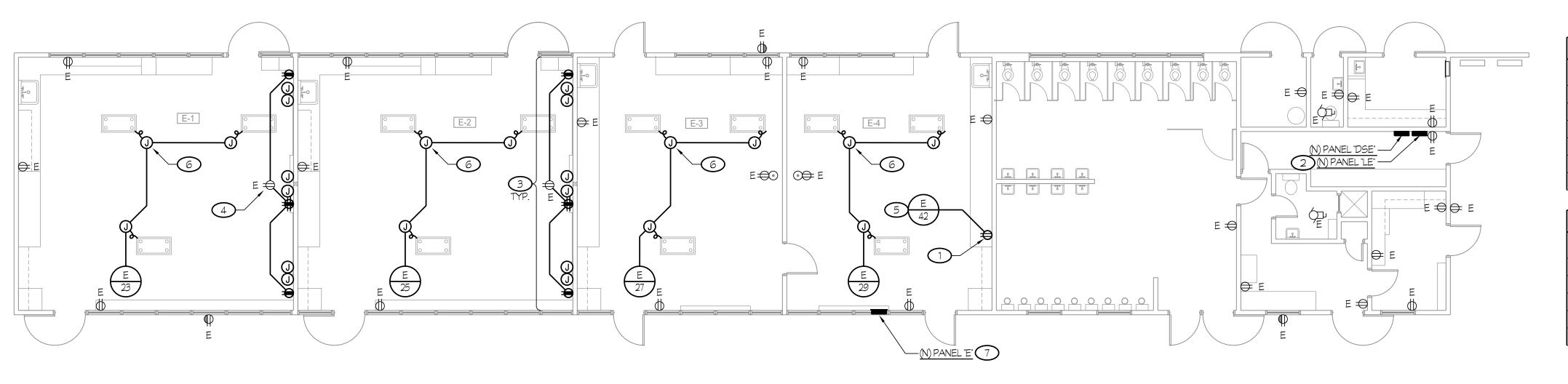
C-1 $R \oplus \bigoplus R$

NEW POWER PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT

NEW POWER PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT



NEW POWER PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0

SCALE: 1/8" = 1'-0

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

ROOM LEGEND

-1 CLASSROOM

-2 CLASSROOM

3-3 CLASSROOM

B-4 CLASSROOM B-5 CLASSROOM

-1 CLASSROOM CLASSROOM

3 CLASSROOM

-4 CLASSROOM -5 CLASSROOM

3-6 SCIENCE CLASSROOM

ROOM LEGEND

ROOM NAME

ROOM NAME

2 (N) PANEL "LF" —

NEW POWER PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

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

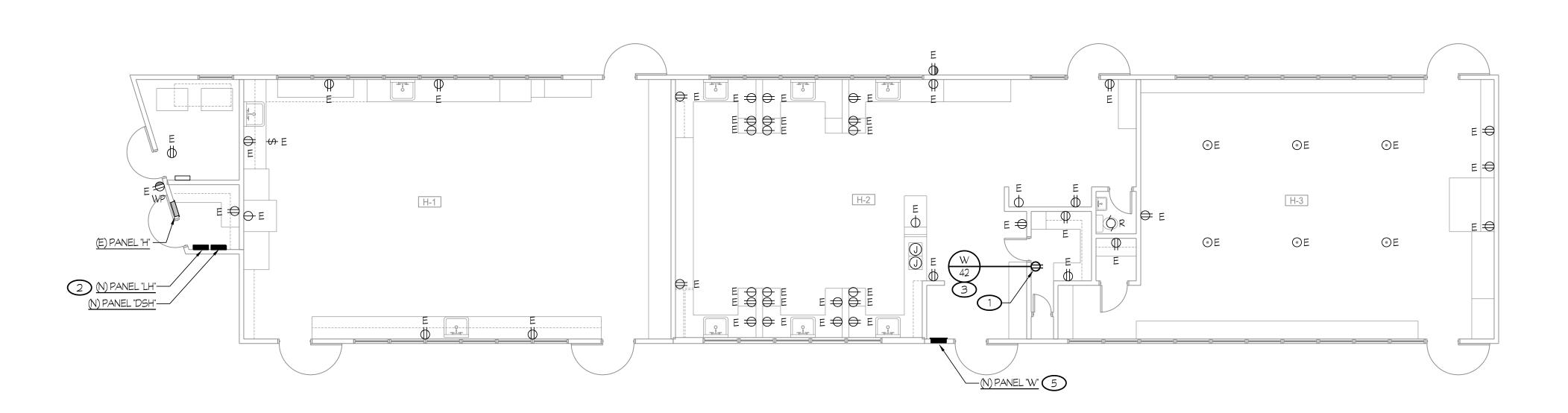
TRANSFORMER ROOM (N) PANEL "DSG" (N) PANEL "LG"— G-2 G-3 ΘE

NEW POWER PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0

SCALE: 1/8" = 1'-0



NEW POWER PLAN - BUILDING "H"

CENTRAL PLANT REPLACEMENT

NOTES (THIS SHEET ONLY):

1 COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTROLLER AS REQUIRED.

2 REPLACE EXISTING PANEL WITH NEW AND CONNECT PER ONE-LINE DIAGRAM ON SHEET #E4.02. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.

PROVIDE (1) 20A CIRCUIT BREAKER IN EXISTING PANEL MATCHING STYLE, TYPE, AND RATING. ACCEPTABLE TO CONNECT TO SPARE BREAKER AS AVAILABLE.

RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.

TEPLACE EXISTING PANEL WITH NEW. NEW PANEL SHALL FACE INTERIOR OF BUILDING. INSTALL PER DETAIL #14/E5.00. EXTERIOR WALL SHALL BE PATCHED AS REQUIRED.

6 REPLACE EXISTING PANEL WITH NEW. NEW PANEL SHALL FACE INTERIOR OF BUILDING. INSTALL PER DETAIL #14/E5.00.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>

APP: 03-122490 INC:

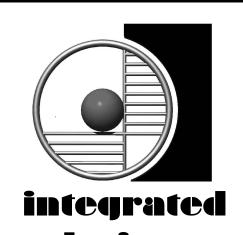
BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc. **ARCHITECTURE**

ENGINEERING INTERIOR DESIGN 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

Ownership of Documents his document, the ideas and designs incorporated herein, as an instrument rofessional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

É: design@somam.com integrateddesigns.com

	ROOM LEGEND
#	ROOM NAME
G-1	MUSIC CLASSROOM
G-2	METAL SHOP CLASSROOM
G-3	WOOD SHOP CLASSROOM
G-4	LOFT
G-5	LOFT

ROOM LEGEND

F-1 CONFERENCE

F-3 MULTI-PURPOSE

F-5 MUSIC CLASSROOM

F-2 KITCHEN

F-4 PLATFORM

ROOM LEGEND					
#	ROOM NAME				
H-1	ART/CRAFTS CLASSROOM				

H-2 HOMEMAKING CLASSROOM
H-3 HOMEMAKING CLASSROOM

Rose Sing Eastham & Associates
Electrical Consultants

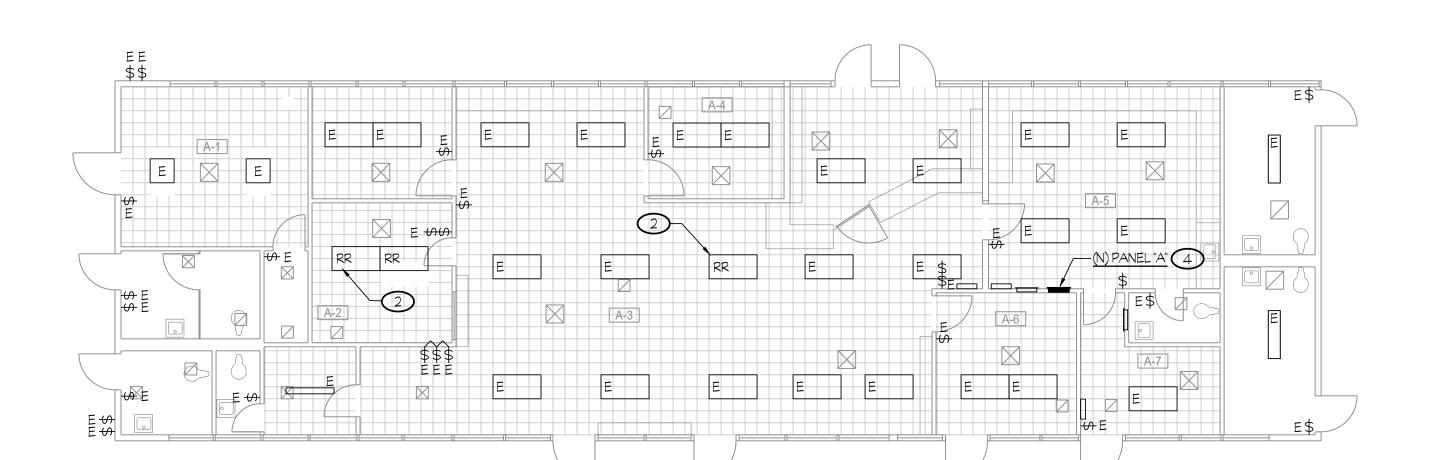
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

POWER PLANS -

BLDG "F, G &H" 5525

E2.11

NEW POWER PLAN - BUILDING "A" CENTRAL PLANT REPLACEMENT



NEW LIGHTING PLAN - BUILDING "A" CENTRAL PLANT REPLACEMENT

NEW ROOF ELECTRICAL PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

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

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

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

NOTES (THIS SHEET ONLY):

- 1 REPLACE EXISTING PANEL WITH NEW AND CONNECT PER ONE-LINE DIAGRAM ON SHEET #E4.02. REFER TO DETAIL #6/E5.00 FOR MOUNTING REQUIREMENTS.
- COORDINATE WITH CONTRACTOR. IF REQUIRED, REMOVE AND REINSTALL LIGHT FIXTURES REQUIRED TO CLEAR WAY FOR DEMOLITION. OTHERWISE, EXISTING LIGHT FIXTURES TO REMAIN. REINSTALL LIGHT FIXTURE, PER DETAIL #2/E5.00.
- 3 PROVIDE (1) 20A CIRCUIT BREAKER IN EXISTING PANEL MATCHING STYLE, TYPE, AND RATING. ACCEPTABLE TO CONNECT TO SPARE BREAKER AS AVAILABLE.
- REPLACE EXISTING PANEL WITH NEW. NEW PANEL SHALL FACE INTERIOR OF BUILDING. INSTALL PER DETAIL #14/E5.00, FOR MOUNTING REQUIREMENTS.
- PROVIDE 30A, 480V, 3-PHASE FUSED DISCONNECT SWITCH WITH 30A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
- 6 3/4"C 3 #10 + 1 #10 GND.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

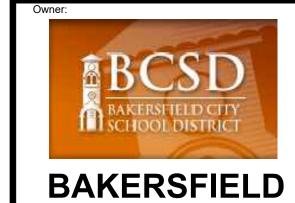


IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

APP: 03-122490 INC:



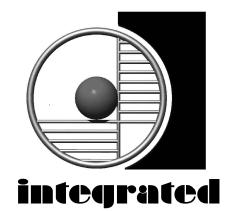
CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is lot to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

Stamp

	ROOM LEGEND
#	ROOM NAME
A-1	TEACHERS LOUNGE
A-2	PRINCIPAL
A-3	RECEPTION
A-4	COUNSELOR
A-5	SUPPLIES
A-6	VICE PRINCIPAL
A-7	CHECK OUT



NEW ELECTRICAL PLAN - BUILDING "A"

5525

E2.12

- 1 SYMBOL EM DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
- 2) REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
- 3 REFER TO TYPICAL LIGHTING CONTROL PLAN, #2/E2.22 FOR ADDITIONAL WORK.

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

WASHINGTON

MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305

integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

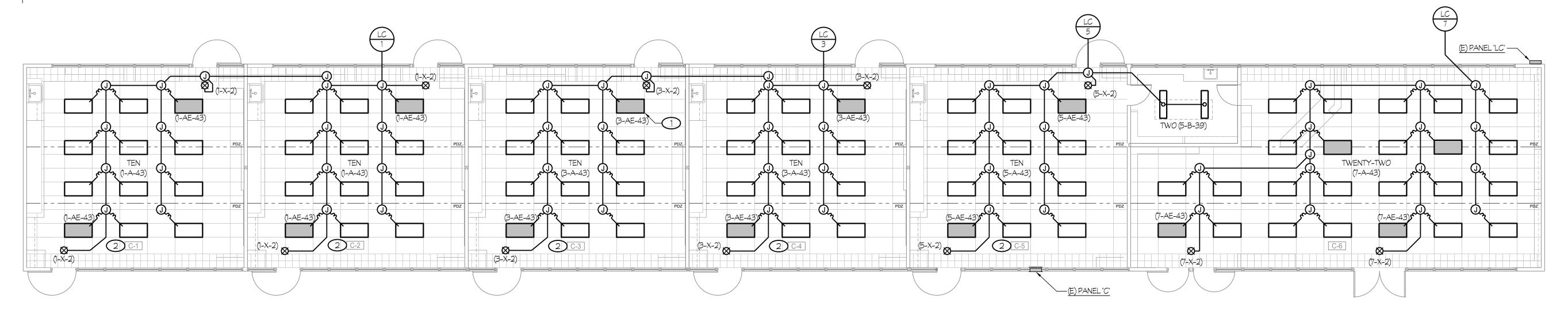
> E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument rofessional Service is the property of Integrated Designs by SOMAM Inc. and is to be used, in whole or in part for any other project without written authorization.

GENERAL NOTES

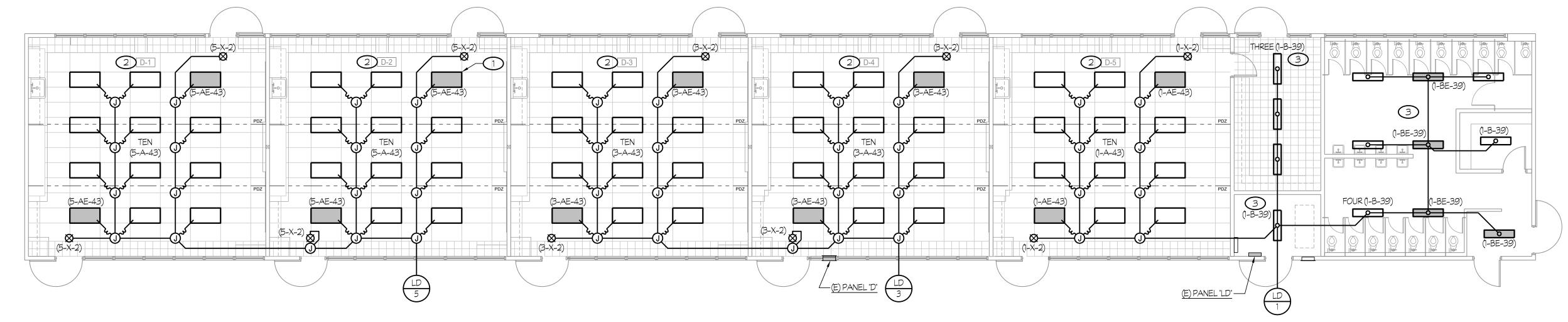
1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

NEW LIGHTING PLAN - BUILDING "B" CENTRAL PLANT REPLACEMENT



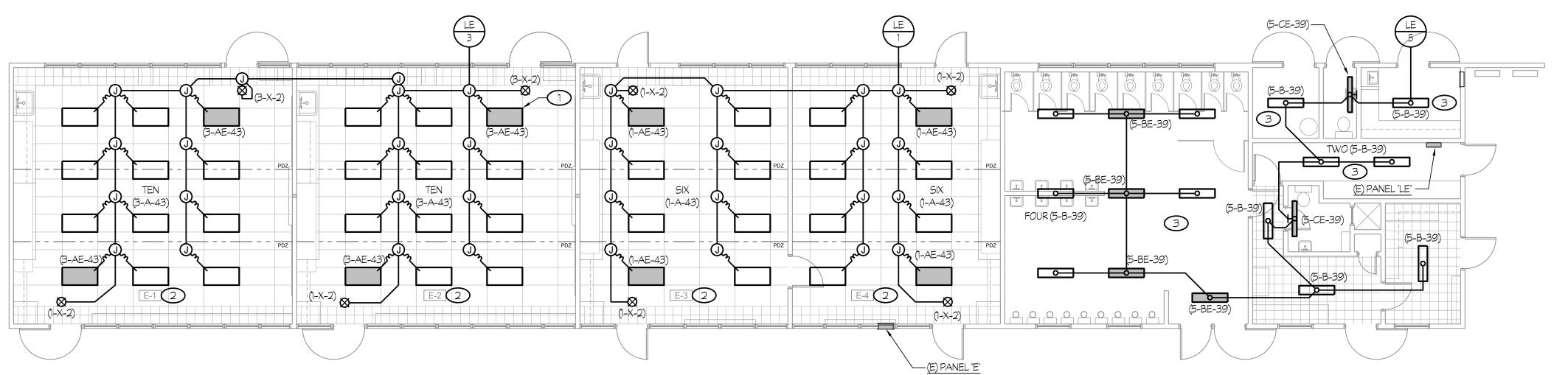
NEW LIGHTING PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT



NEW LIGHTING PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT



	ROOM LEGEND		ROOM LEGEND		
#	ROOM NAME		#	ROOM NAME	
B-1	CLASSROOM	1	C-1	CLASSROOM	
B-2	CLASSROOM		C-2	CLASSROOM	
B-3	CLASSROOM		C-3	CLASSROOM	
B-4	CLASSROOM		C-4	CLASSROOM	
B-5	CLASSROOM		C-5	CLASSROOM	
B-6	SCIENCE CLASSROOM		C-6	LIBRARY	

	ROOM LEGEND		ROOM LEGEND
#	ROOM NAME	#	ROOM NAME
D-1	CLASSROOM	E-1	CLASSROOM
D-2	CLASSROOM	E-2	CLASSROOM
D-3	CLASSROOM	E-3	CLASSROOM
D-4	CLASSROOM	E-4	CLASSROOM
D-5	CLASSROOM		•

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

NEW LIGHTING PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0

SCALE: 1/8" = 1'-0

E2.20

LIGHTING PLANS

BLDGS "B, C, D & E"

5525

- SYMBOL EN DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
- 2 REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
- 3 REFER TO TYPICAL LIGHTING CONTROL PLAN, #4/E2.22 FOR ADDITIONAL WORK.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

APP: 03-122490 INC:

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗆

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

Exp. 6/30/23

5525

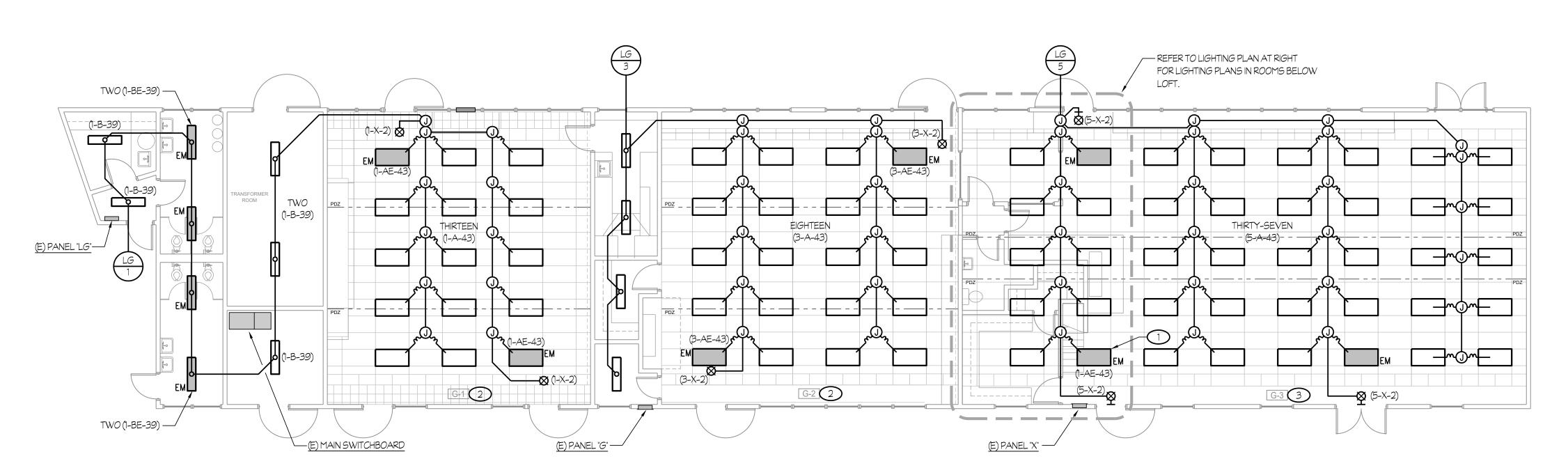
LIGHTING PLANS -

BLDG "F, G &H"

E2.21

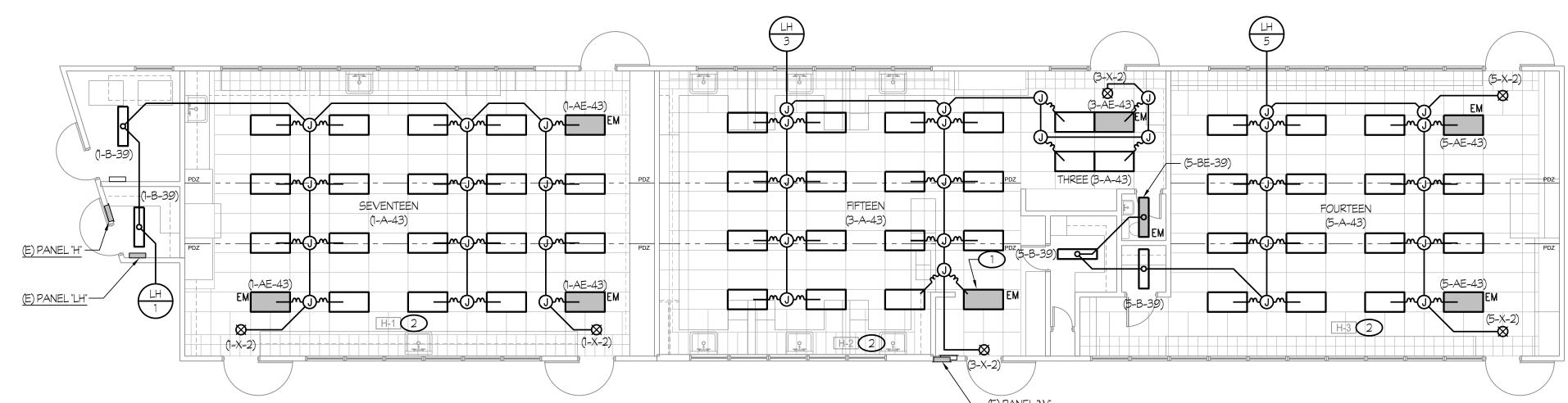
NEW LIGHTING PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT



NEW LIGHTING PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

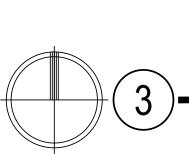


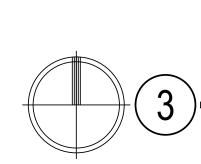
NEW LIGHTING PLAN - BUILDING "H"

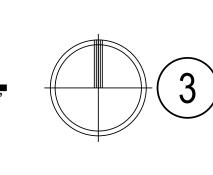
CENTRAL PLANT REPLACEMENT

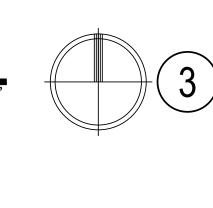


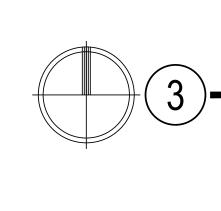
SCALE: 1/8" = 1'-0'

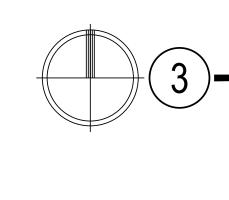




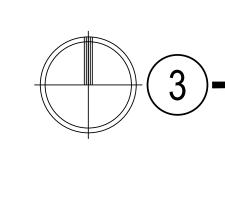


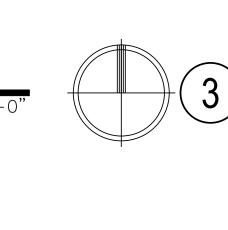


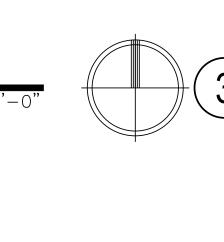












ROOMS BELOW CENTRAL PLANT REPLACEMENT

ROOM LEGEND F-1 CONFERENCE F-2 KITCHEN F-3 MULTI-PURPOSI

F-	5	MUSIC CLASSROOM
		ROOM LEGEND
#	<u>!</u>	ROOM NAME
G-	1	MUSIC CLASSROOM
G	2	METAL SHOP CLASSROOM
Ġ	.3	WOOD SHOP CLASSROOM
Ġ	4	LOFT
G-	-5	LOFT

F-4 PLATFORM

	ROOM LEGEND
#	ROOM NAME
H-1	ART/CRAFTS CLASSROOM
H-2	HOMEMAKING CLASSROOM
H-3	HOMEMAKING CLASSROOM

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth – (559)733–2671
Visalia, California 93292–6705

TYPICAL LIGHTING CONTROL PLAN

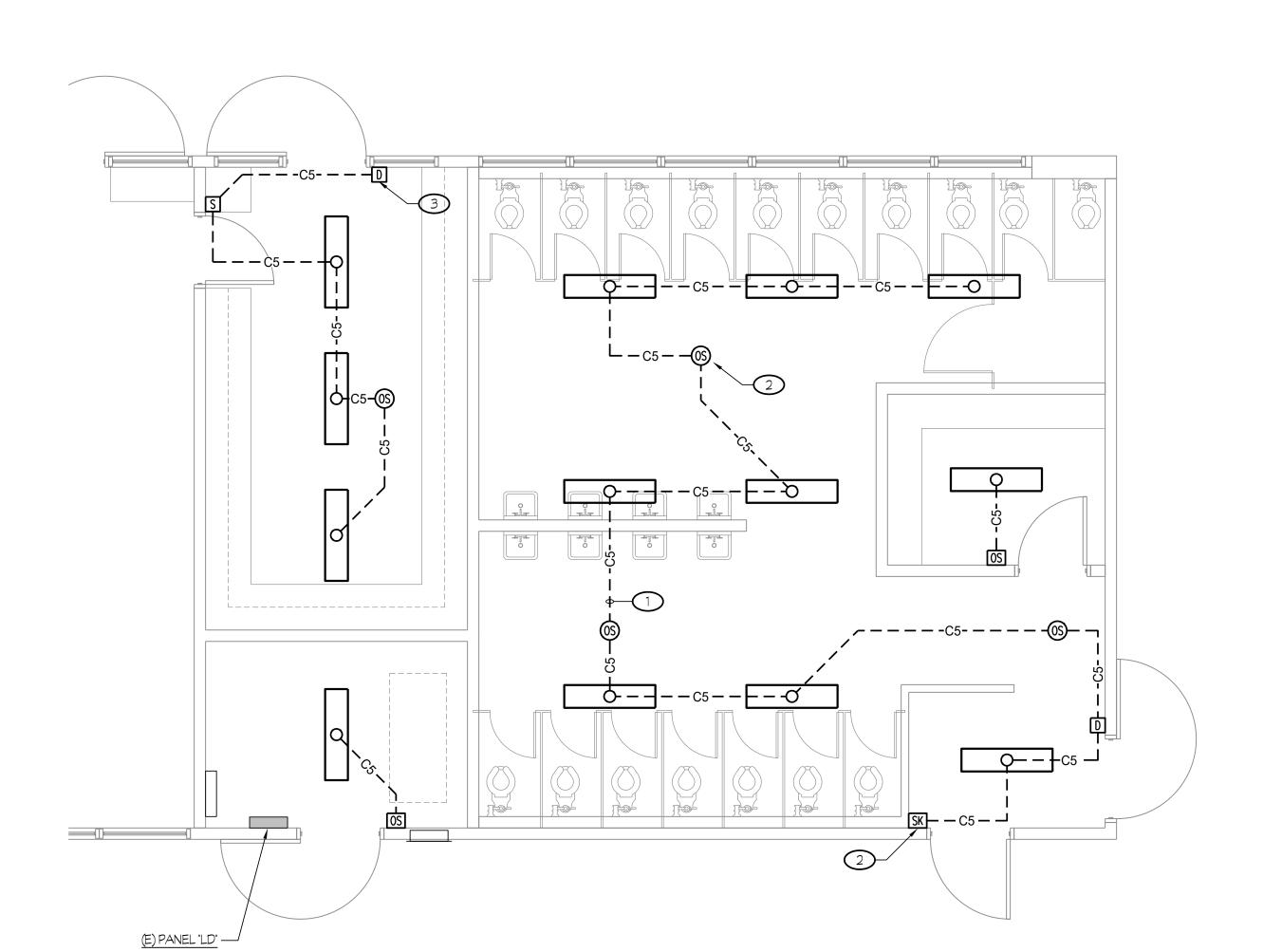
CENTRAL PLANT REPLACEMENT

| 08 | 08 | 10 | 12 | 14 | 15 | 17 | 22 | 22 | 25 | 26 | 24 | 25 | 25 | 26 | 24 | 25 | 25 | 25 | 26 | 25 | 26 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25

TYPICAL CLASSROOM EMERGENCY LIGHTING PHOTOMETRIC PLAN

CENTRAL PLANT REPLACEMENT

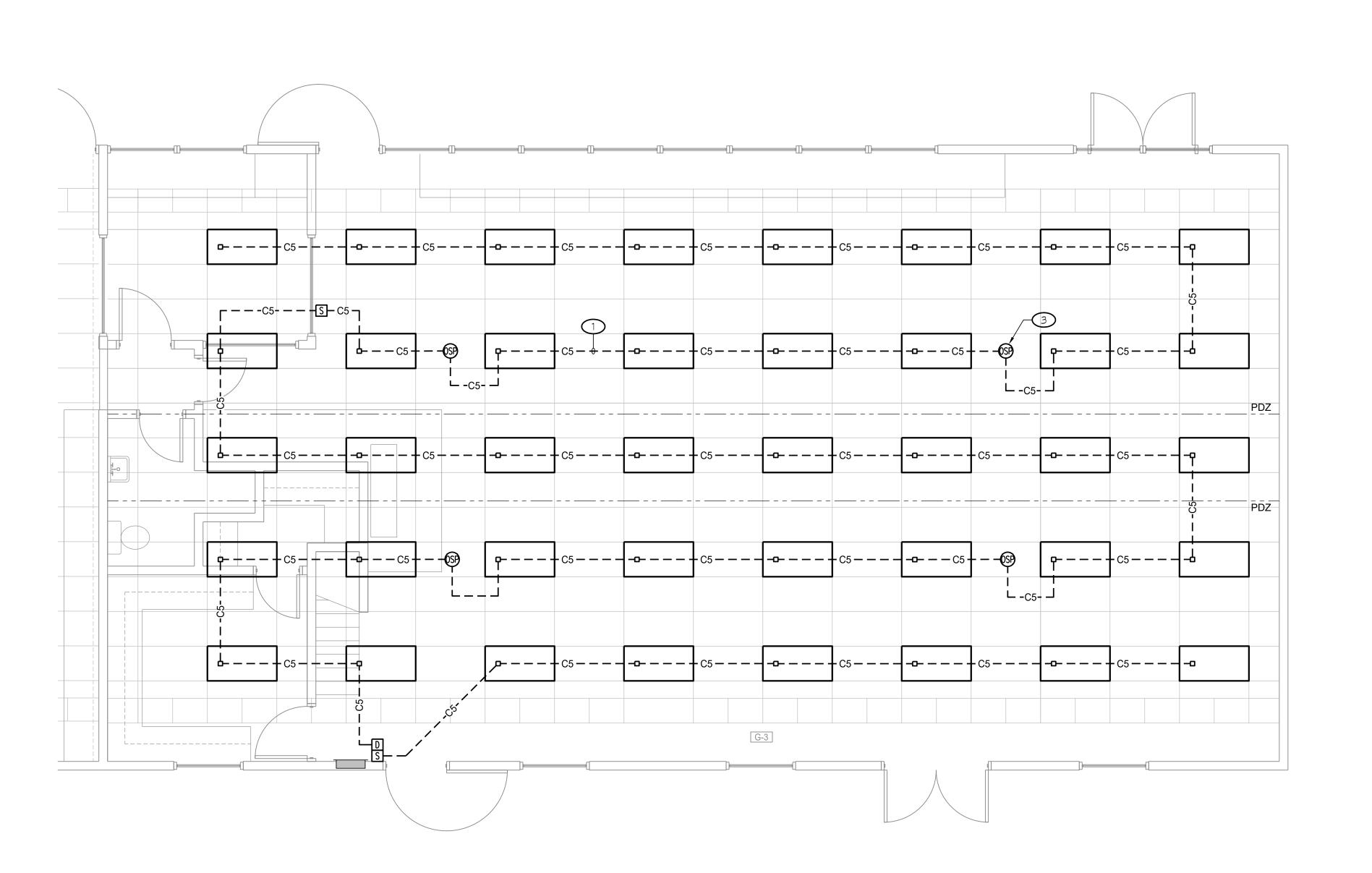
SCALE: 1/4" = 1'-



TYPICAL LIGHTING CONTROL PLAN

✓ CENTRAL PLANT REPLACEMENT

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



LIBRARY LIGHTING CONTROL PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- ——C5—— DENOTES CAT. 5e CABLE. ELECTRICAL CONTRACTOR MAY USE PRETERMINATED CAT. 5e CABLING OR PROVIDE CAT. 5e CABLING, MODULAR JACKS ON EACH END AND TERMINATE THE MODULAR JACKS USING THE TIA/E1A-568-B.2 PIN-PAIR SPECIFICATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES IN WALLS FOR ROUTING OF CABLING. CABLE MAY BE ROUTED IN FREE-AIR, WHEN LOCATED IN ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILINGS. AT GYPBOARD CEILINGS, PROVIDE A DOUBLE-GANG LOW VOLTAGE MOUNTING PLATE BRACKET, CADDY #MPLS2 OR EQUAL, AT THE RJ-45 JACKS (EMBEDDED CONTROLS) OF THE SURFACE MOUNTED LIGHT FIXTURES FOR PASSAGE OF CAT. 5e CABLING.
- 2 IN STUDENT RESTROOMS WITH PARTITIONED STALLS, PROVIDE CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY) AND KEYED WALL SWITCH. IN STAFF OR SINGLE USE RESTROOMS, PROVIDE WALL SWITCH WITH OCCUPANCY SENSOR (DUAL TECHNOLOGY). TYPICAL FOR RESTROOMS WITH NEW LIGHTS.
- 3 REFER TO DETAIL # 10/E5.00 FOR WIRING DIAGRAM OF CONTROL DEVICES. TYPICAL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT
REPLACEMENT

ect Address:
WASHINGTON

MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument Professional Service is the property of Integrated Designs by SOMAM Inc. an not to be used, in whole or in part for any other project without written authorization.

tamp:

Sheet Title

Exp. 6/30/23

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

TYPICAL LIGHTING CONTROL PLANS

5525

E2.22



PROVIDE 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.

2 3/4"C - 3 #10 + 1 #10 GND.

SS ☑ FLS ☑ ACS □

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

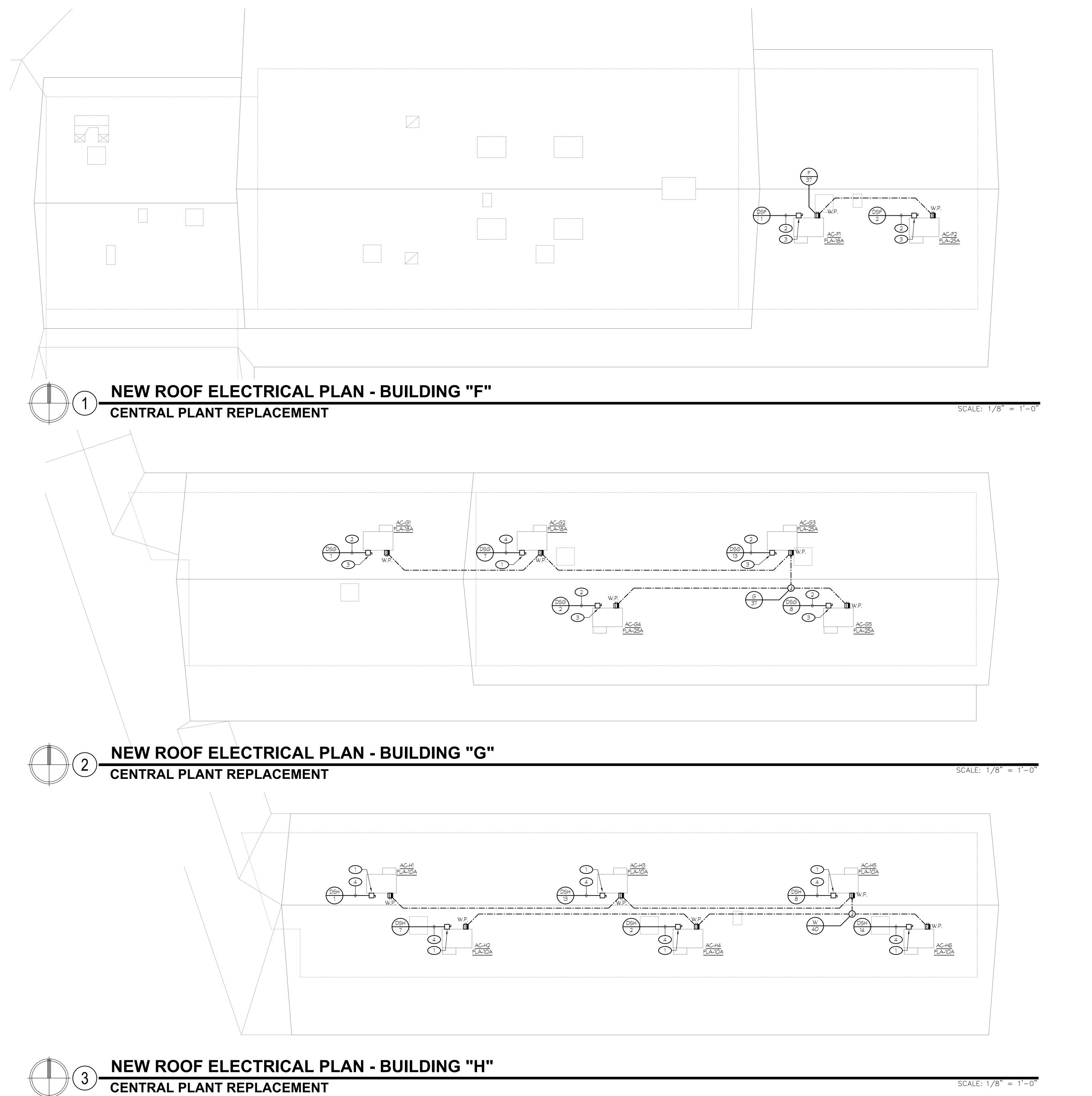
Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

NEW ROOF ELECTRICAL PLANS BLDGS "B, C, D & E"

5525

E2.30



PROVIDE 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.

2 3/4"C - 3 #10 + 1 #10 GND.

PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 30A FUSES (TO BE VERIFIED WITH NAMEPLATE AND CONNECT TO MECHANICAL UNIT AS REQUIRED.

4 3/4"C - 3 #12 + 1 #12 GND.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE
ENGINEERING

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

INTERIOR DESIGN

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is at to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

Stamp:

Sheet Title:

NEW POWER PLANS -BLDG "F, G &H"

5525

E2.31

Release: DSA BACKCHECK Issue Date: 06-13-2023

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth – (559)733–2671
Visalia, California 93292–6705

R AV 75 PR

R AV 30 AV 30 R

ROOM LEGEND ROOM LEGEND ROOM NAME 3-1 CLASSROOM **CLASSROOM** -2 CLASSROOM CLASSROOM B-3 CLASSROOM CLASSROOM B-5 CLASSROOM 3-6 SCIENCE CLASSROOM

ANY UPSTREAM DEVICES REMOVED.

ROOM LEGEND ROOM LEGEND ROOM NAME ROOM NAME -1 CLASSROOM 2 CLASSROOM CLASSROOM -3 CLASSROOM CLASSROOM E-4 CLASSROOM -4 CLASSROOM -5 CLASSROOM

No. É-18786 Exp. 6/30/23 Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

FR

DEMOLITION FIRE ALARM / SIGNALS PLAN - BUILDING "E"

R AV 75

HR WP

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0

E3.00

APP: 03-122490 INC:

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

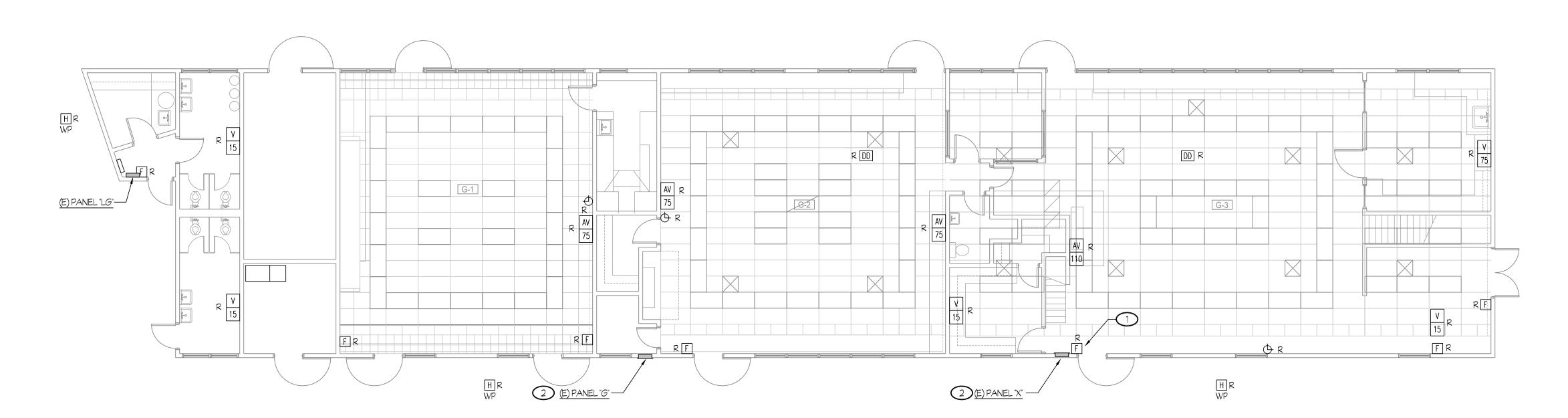
Ownership of Documents his document, the ideas and designs incorporated herein, as an instrumen to be used, in whole or in part for any other project without written authoriza

DEMOLITION FIRE ALARM / SIGNALS PLAN BLDGS "B, C, D & E"

DEMOLITION FIRE ALARM / SIGNALS PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

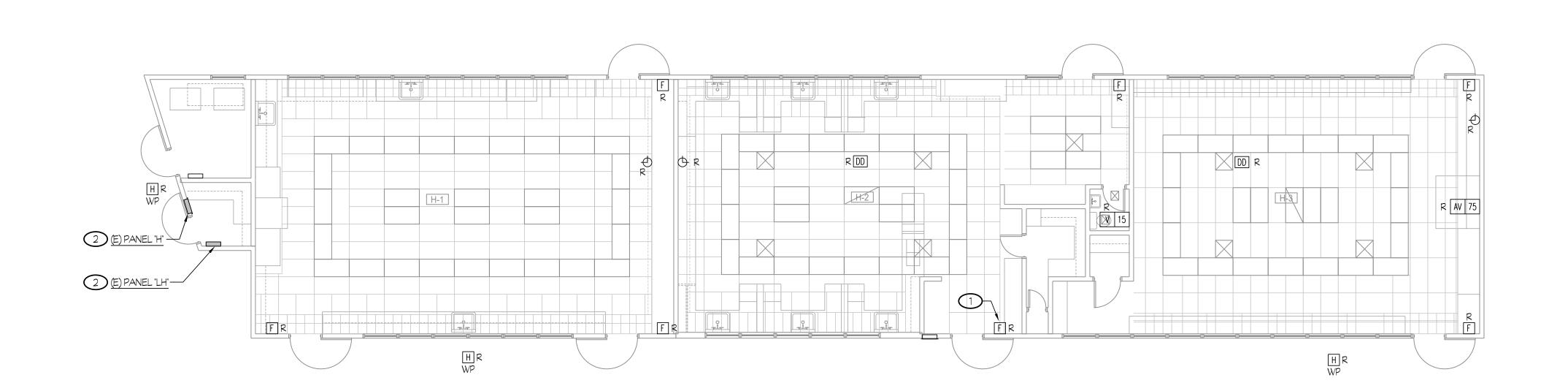
SCALE: 1/8" = 1'-0"



DEMOLITION FIRE ALARM / SIGNALS PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

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



DEMOLITION FIRE ALARM / SIGNALS PLAN - BUILDING "H"

CENTRAL PLANT REPLACEMENT

NOTES (THIS SHEET ONLY):

TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":
DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT
TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..

TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N..
EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR
ANY UPSTREAM DEVICES REMOVED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR
SS FLS ACS D

DATE: 07/27/2023



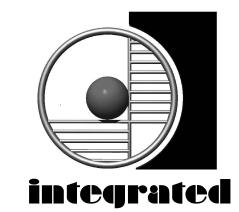
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT
REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

Stamp:

	ROOM LEGEND
#	ROOM NAME
G-1	MUSIC CLASSROOM
G-2	METAL SHOP CLASSROOM
G-3	WOOD SHOP CLASSROOM
G-4	LOFT
G-5	LOFT
	G-1 G-2 G-3 G-4

ROOM LEGEND

F-2 KITCHEN

F-4 PLATFORM

F-3 MULTI-PURPOSE

F-5 MUSIC CLASSROOM

	ROOM LEGEND
#	ROOM NAME
H-1	ART/CRAFTS CLASSROOM
H-2	HOMEMAKING CLASSROOM
H-3	HOMEMAKING CLASSROOM

DEMOLITION FIRE
ALARM/SIGNALS PLA
- BLDG "F, G &H"

5525

E3.01

Release: DSA BACKCHECK Issue Date: 06-13-2023

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

- $\frac{A1C-D}{2}$ 1/2"C ONE "FN" CABLE, ONE "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
 - 2 3/4"C ONE "FN" CABLE, TWO "FSP" CABLES.
 - 3 1/2"C -ONE "FA" CABLE. TYPICAL FOR INITIATING CIRCUIT.
 - 4 3/4"C TWO "FSP" CABLES.
 - 5 MOUNTED ON ROOF, AT HVAC LOCATIONS. TYPICAL.
- 6 REFER TO DETAIL #6/E3.22 FOR MOUNTING REQUIREMENTS.
- 7 REFER TO DETAIL #5/E3.22 FOR MOUNTING REQUIREMENTS.
- 8 3/4"C TWO "FN" CABLES.

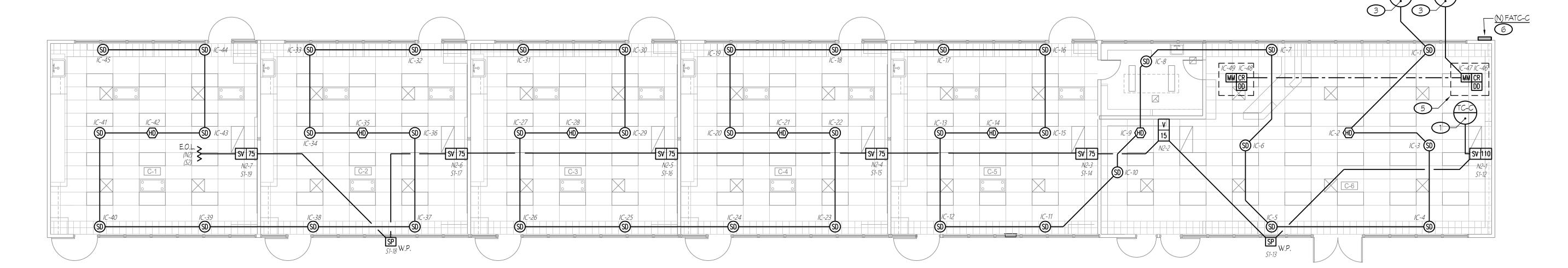
GENERAL NOTES

REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

1

NEW FIRE ALARM / SIGNALS PLAN - BUILDING "B"

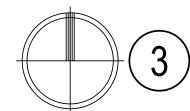
CENTRAL PLANT REPLACEMENT



2

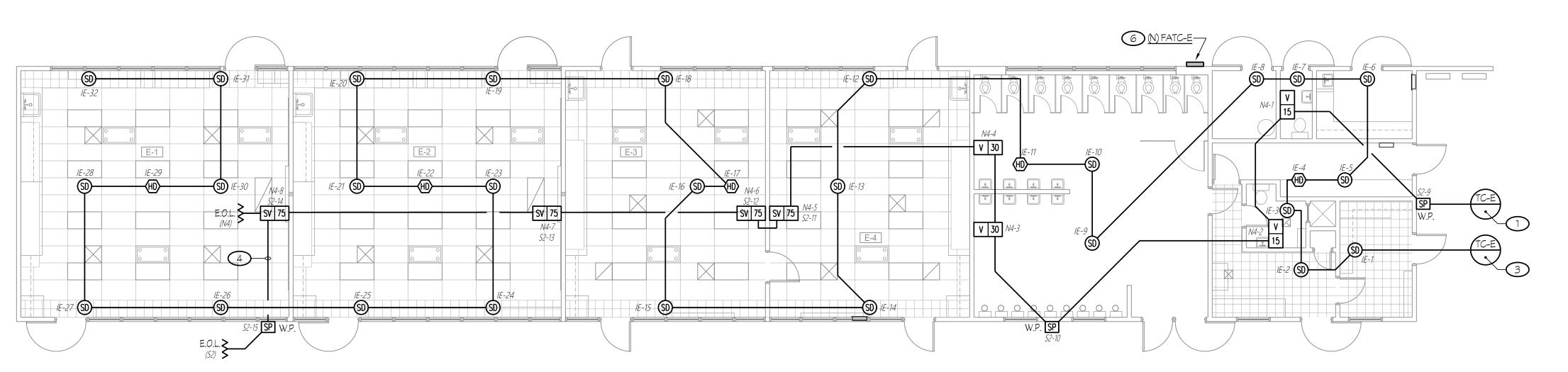
NEW FIRE ALARM/ SIGNALS PLAN - BUILDING "C"

CENTRAL PLANT REPLACEMENT



NEW FIRE ALARM / SIGNALS PLAN - BUILDING "D"

CENTRAL PLANT REPLACEMENT



4

NEW FIRE ALARM / SIGNALS PLAN - BUILDING "E"

CENTRAL PLANT REPLACEMENT

SCALE: 1/8" = 1'-0

SCALE: 1/8" = 1'-0

	ROOM LEGEND
#	ROOM NAME
B-1	CLASSROOM
B-2	CLASSROOM
B-3	CLASSROOM
B-4	CLASSROOM
B-5	CLASSROOM
B-6	SCIENCE CLASSROOM

ROOM LEGEND			
ROOM NAME			
CLASSROOM			
LIBRARY			

	ROOM LEGEND
#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	CLASSROOM
D-5	CLASSROOM

	ROOM LEGEND
#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS

DATE: 07/27/2023



1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designsby SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

Sheet Title:

NEW FIRE ALARM/ SIGNALS PLAN BLDGS "B, C, D & E"

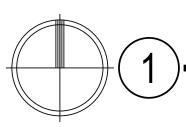
5525

E3.10

- 1) 1/2"C ONE "FN" CABLE, ONE "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
- 2) 1/2"C ONE "FN" CABLE, TWO "FSP" CABLES.
- 3 1/2"C -ONE "FA" CABLE. TYPICAL FOR INITIATING CIRCUIT.
- 4 1/2"C ONE "FN" CABLE.
- 5 3/4"C TWO "FSP" CABLE.
- 6 MOUNTED ON ROOF, AT HVAC LOCATIONS. TYPICAL.
- 7 TO SMOKE DETECTOR BELOW LOFT.
- 8 TO SMOKE DETECTOR ABOVE LOFT.
- (9) TO NOTIFICATION DEVICE IN BATHROOM BELOW LOFT.
- 10 TO NOTIFICATION DEVICE IN ROOM "G-2".
- 11) TO OUTDOOR SPEAKER OUTSIDE OF ROOM "G-3".
- 12) TO NOTIFICATION DEVICE BELOW LOFT IN ROOM "G-3".
- (13) REFER TO DETAIL #6/E3.22 FOR MOUNTING REQUIREMENTS.
- 14) REFER TO DETAIL #5/E3.22 FOR MOUNTING REQUIREMENTS.
- 15 1/2"C ONE "FSP" CABLE.

GENERAL NOTES

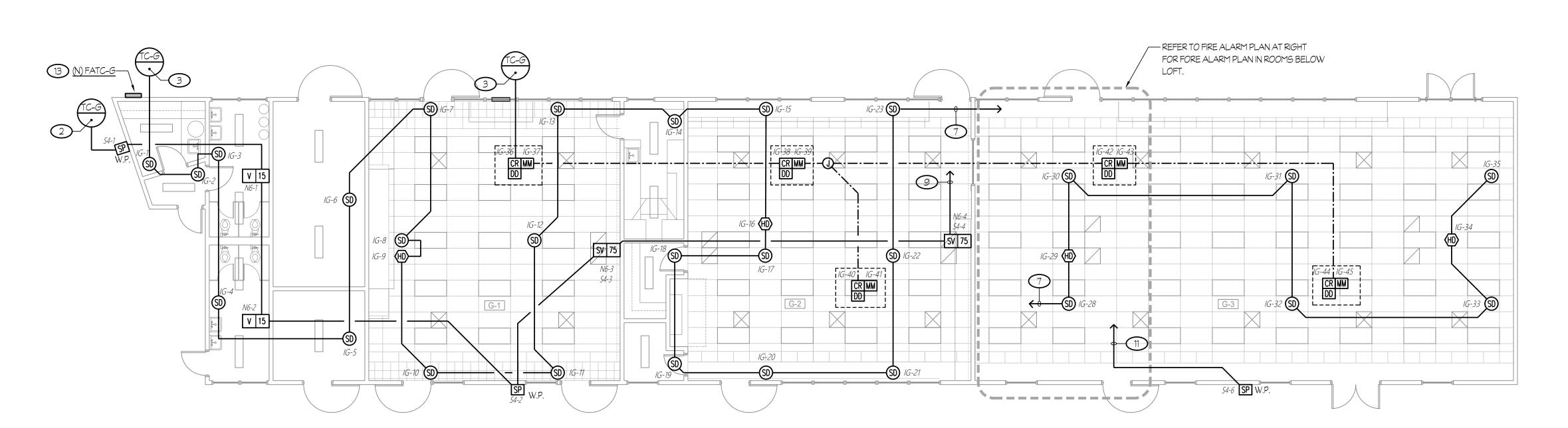
1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

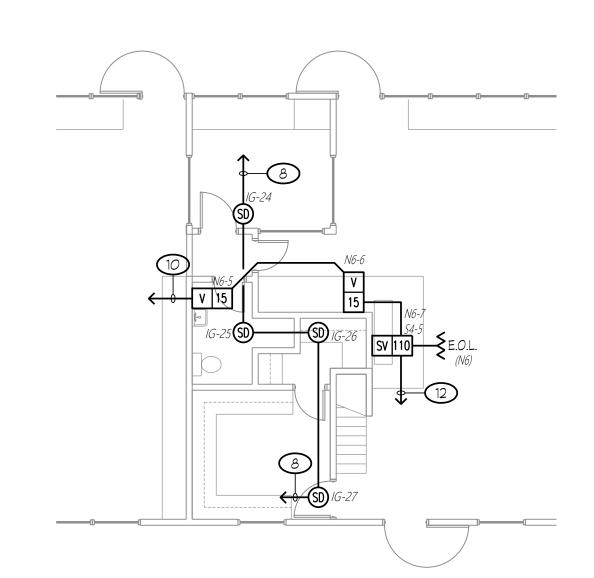


NEW FIRE ALARM / SIGNALS PLAN - BUILDING "F"

CENTRAL PLANT REPLACEMENT

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





NEW FIRE ALARM PLAN - BUILDING "G" **ROOMS BELOW**

CENTRAL PLANT REPLACEMENT

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

H H H H H H H H H H	13 (N) FATC-H 3			
W.P.	TC-H H-27 H-28 CR MM	H-9	IH-20 IH-35 IH-36 IH-18	111.20
H-14 SD V	34-7 SP W.P. 1H-4 SD 1H-5 1H-29 1H-30 1 CR IMM DD	\$\text{\$\text{SD}}\text{\$\text{\$IH-8}}\tag{\text{\$\text{\$IH-13}}}\text{\$\text{\$\text{\$\text{\$IH-13}}}\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$}}}\$\text{\$\text{\$\text{\$\	\$\overline{\text{SD}} \rightarrow \text{IH-22} \overline{\text{SD}} \rightarrow \text{IH} \rightarrow \text{IH-37} \text{IH-37} \text{IH-37} \text{IH-37} \text{IH-37} \text{IH-37} \text{IH-37} \text{IH-31} \text{CR IMM} \text{IM-30} \text{IM-36}	H-38

	ROOM LEGEND
#	ROOM NAME
F-1	CONFERENCE
F-2	KITCHEN
F-3	MULTI-PURPOSE
F-4	PLATFORM
F-5	MUSIC CLASSROOM

	ROOM LEGEND
#	ROOM NAME
G-1	MUSIC CLASSROOM
G-2	METAL SHOP CLASSROOM
G-3	WOOD SHOP CLASSROOM
G-4	LOFT
G-5	LOFT

	ROOM LEGEND
#	ROOM NAME
H-1	ART/CRAFTS CLASSROOM
H-2	HOMEMAKING CLASSROOM
H-3	HOMEMAKING CLASSROOM

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705



NEW FIRE ALARM / SIGNALS PLAN - BUILDING "G"

CENTRAL PLANT REPLACEMENT

CENTRAL PLANT REPLACEMENT

5525

E3.11

Release: DSA BACKCHECK Issue Date: 06-13-2023

WASHINGTON MIDDLE SCHOOL 1101 NOBLE AVENUE BAKERSFIELD, CA 93305

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT

REPLACEMENT

DIV. OF THE STATE ARCHITE

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

APP: 03-122490 INC:

integrated designs

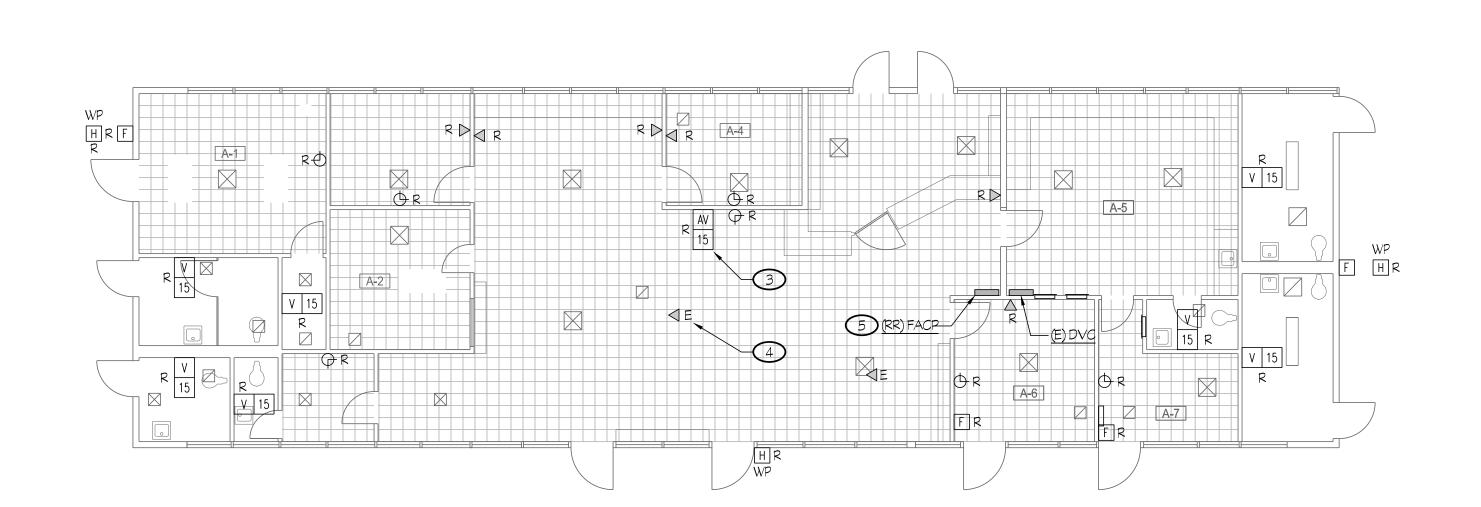
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

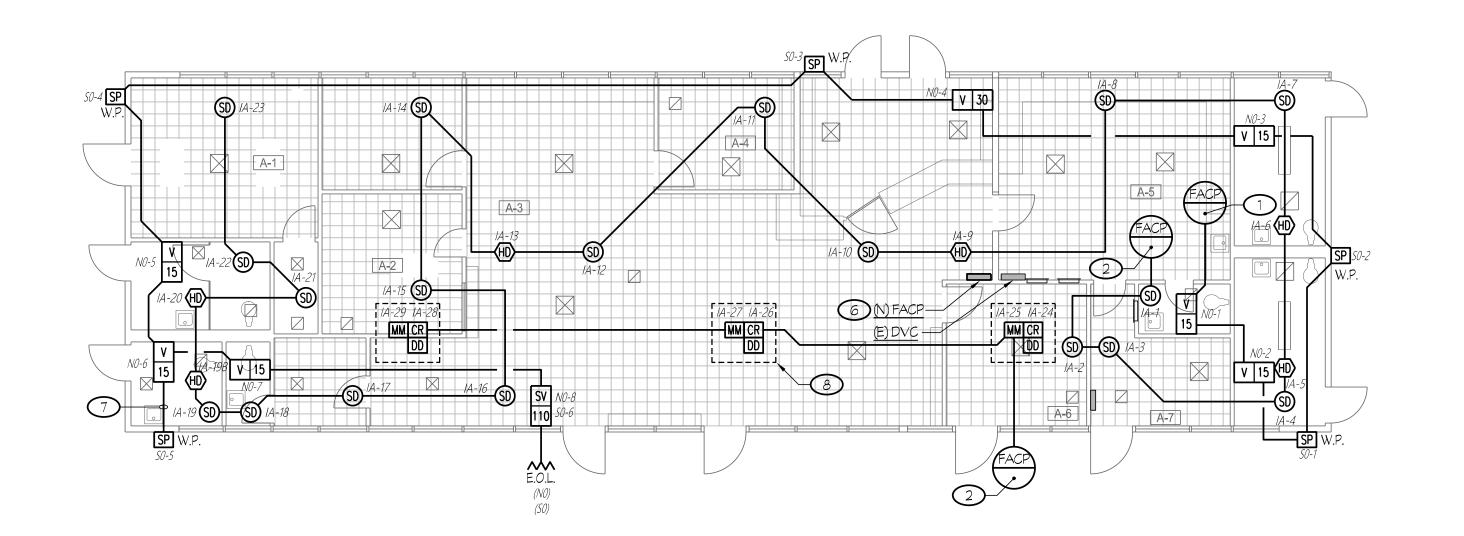
NEW FIRE ALARM SIGNALS PLAN - BLDG "F, G &H"



DEMOLITION FIRE ALARM PLAN - BUILDING "A"

CENTRAL PLANT REPLACEMENT

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



NEW FIRE ALARM PLAN - BUILDING "A"

CENTRAL BLANT PERLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1) 1/2"C ONE "FN" CABLE, ONE "FSP" CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
- 2) 1/2"C -ONE "FA" CABLE. TYPICAL FOR INITIATING CIRCUIT.
- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "R":

 DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N..
- TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "E", U.O.N..
 EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR
 ANY UPSTREAM DEVICES REMOVED.
- TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT "RR" REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.
- 6 REFER TO DETAIL #4/E3.22 FOR MOUNTING REQUIREMENTS.
- 7 3/4"C TWO "FSP" CABLE.
- 8 MOUNTED ON ROOF, AT HVAC LOCATIONS. TYPICAL.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR SS ACS ACS

APP: 03-122490 INC:

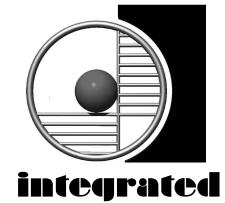
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

Stamp

FIRE ALARM /
SIGNALS PLANS
- BUILDING "A"

5525

E3.12

Release: DSA BACKCHECK Issue Date: 06-13-2023



ROOM LEGEND

A-1 TEACHERS LOUNGE

A-2 PRINCIPAL

A-3 RECEPTION

A-4 COUNSELOR

A-5 SUPPLIES

A-6 VICE PRINCIPAL

A-7 CHECK OUT

ROOM NAME

A END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM CONTROL PANEL AND 2.2K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM POWER EXPANDER PANELS.

1. NOTIFICATION APPLIANCE CIRCUIT "*N1*

1. NOTIFICATION APPLIANCE CIRCUIT "*N58*"

 $5 \times 0.043A = 0.215A$

 $1 \times 0.063A = 0.063A$

1 x 0.107A = 0.107A 0.385A

VOLTAGE DROP = 2 (1.98) $\left(\frac{250'}{1000}\right)$ (0.385) = 0.381 V.D.

PERCENT VOLTAGE DROP = $\frac{0.381}{24}$ x 100 = 1.59%

6 × 0.107A = <u>0.642</u>A

VOLTAGE DROP = 2 (1.98) $\left(\frac{335'}{1000}\right)$ (0.642) = 0.852 V.D.

PERCENT VOLTAGE DROP = $\frac{0.852}{24}$ × 100 = 3.55%

- (B) VERIFY BACKBOX REQUIREMENTS WITH THE FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- C PROVIDED WITH WEATHERPROOF BACKBOX #GBLP.
- D SEE RESPECTIVE FIRE ALARM PLAN FOR MOUNTING HEIGHT.

PERCENT VOLTAGE DROP = VOLTAGE DROP NOMINAL VOLTAGE x 100

1. NOTIFICATION APPLIANCE CIRCUIT "NO

 $6 \times 0.043A = 0.258A$

 $1 \times 0.063A = 0.063A$

1 × 0.148A = <u>0.148</u>A

1. NOTIFICATION APPLIANCE CIRCUIT "N5A"

 $3 \times 0.043A = 0.129A$

 $1 \times 0.107A = 0.107A$

: $3 \times 0.148A = \frac{0.444A}{0.680A}$

VOLTAGE DROP = 2 (1.98) $\left(\frac{260'}{1000}\right)$ (0.469) = 0.483 V.D

VOLTAGE DROP = 2 (1.98) $\left(\frac{180'}{1000}\right)$ (0.680) = 0.485 V.D.

PERCENT VOLTAGE DROP = $\frac{0.485}{24}$ x 100 = 2.02%

PERCENT VOLTAGE DROP = $\frac{0.483}{24}$ × 100 = 2.01%

PROVIDE ACCESS PANEL AT INACCESSIBLE ATTIC SPACES AS REQUIRED FOR HEAT DETECTOR ACCESS.

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 $\left(\begin{array}{c} DC \ RESISTANCE \ AT 75^{\circ}C \\ FROM \ TABLE \ 8, \ C.E.C. \end{array}\right) \left(\begin{array}{c} LENGTH \ OF \ CIRCUIT \\ 1000 \end{array}\right) \left(\begin{array}{c} CURRENT \\ \end{array}\right)$

FIRE ALARM POWER EXPANDER PANEL "P.E.P. - B" BATTERY CALCULATION SUPV. CURRENT ALARM CURRENT DESCRIPTION EACH SUB-TOTAL EACH SUB-TOTA WER EXPANDER PANEL 1 | 0.120 | 0.120 | 0.120 | 0.120 d STROBE (WALL) 3 — **—** | 0.043 | 0.129 **—** | 0.063 | 0.252 Ocd STROBE (WALL) 4 — SPEAKER/75cd STROBE (WALL) 20 **—** | 0.107 | 2.140 ___

0.120

4.29 A.H.

2.789

TOTAL ALARM CURRENT OF 2.789×0.250 (15 MINUTES) = 0.697 A.H. TOTAL SUPERVISORY CURRENT OF 0.120 x 24 HOURS = 2.88 A.H. TOTAL AMP HOURS REQUIRED 3.577 A.H. x 1.2 SAFETY FACTOR

TOTALS

PROVIDE 7.0 AMP HOUR BATTERIES

SPEAKER/110cd STROBE (WALL)

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

	FIRE ALARM POW BATT	ER EXP			. "P.E.P.	- F"
	DESCRIPTION	QUANTITY	SUPV.C	CURRENT	ALARM (CURRENT
	DESCRIPTION	QU/NIII I	EACH	SUB-TOTAL	EACH	SUB-TOTAL
	POWER EXPANDER PANEL	1	0.120	0.120	0.120	0.120
	15cd STROBE (WALL)	14			0.043	0.602
	30cd STROBE (WALL)	1			0.063	0.063
(A) \	SPEAKER/75cd STROBE (WALL)	5			0.107	0.535
()	SPEAKER/110cd STROBE (WALL)	6			0.148	0.888
		TOTALS		0.120		2.208

TOTAL ALARM CURRENT OF 2.208×0.250 (15 MINUTES) = 0.552 A.H. TOTAL SUPERVISORY CURRENT OF 0.120 x 24 HOURS = 2.88 A.H. TOTAL AMP HOURS REQUIRED 3.432 A.H. x 1.2 SAFETY FACTOR 4.12 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

. NOTIFICATION APPLIANCE CIRCUIT "N2

 $1 \times 0.043A = 0.043A$

 $5 \times 0.107A = 0.535A$

: $1 \times 0.148A = 0.148A$ 0.726A

. NOTIFICATION APPLIANCE CIRCUIT "N6

 $4 \times 0.043A = 0.172A$

 $2 \times 0.107A = 0.214A$

 $1 \times 0.148A = 0.148A$ 0.534A

VOLTAGE DROP = 2 (1.98) $\left(\frac{170'}{1000}\right)$ (0.534) = 0.359 V.D.

PERCENT VOLTAGE DROP = $\frac{0.359}{24}$ × 100 = 1.50%

PERCENT VOLTAGE DROP = $\frac{0.690}{24}$ × 100 = 2.87%

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM SYSTEM GENERAL NOTES

- APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS
- UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72 14.6.2.4 AND FIGURE 7.8.2(a) AND READ OUT VERIFICATION FORM FROM CENTER STATION.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

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.
- DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- 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.
- . WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- 2. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS. WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN FOR A FIRE ALARM SIGNAL. AUDIBLE DEVICES SHALL ALSO SOUND A TEMPORAL CODE 4 PATTERN FOR A CARBON MONOXIDE SIGNAL. THE EXISTING FIRE ALARM CONTROL PANEL WILL PRODUCE/GENERATE BOTH SIGNALS.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
- 5. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/ CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT. SURFACE RACEWAY OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

WIRE SIZE

70 18 0.01278

70 | 18 | 0.01278

70 18 0.01278

70 18 0.01278

VOLTAGE

1. NOTIFICATION APPLIANCE CIRCUIT "N3

1. NOTIFICATION APPLIANCE CIRCUIT "N7 '

 $2 \times 0.043A = 0.086A$

 $1 \times 0.107A = 0.107A$

: $2 \times 0.148A = \frac{0.296A}{0.489A}$

VOLTAGE DROP = 2 (1.98) $\left(\frac{215'}{1000}\right)$ (0.489) = 0.416 V.D.

PERCENT VOLTAGE DROP = $\frac{0.416}{24}$ × 100 = 1.73%

 $2 \times 0.063A = 0.126A$

5 x 0.107A = 0.535A

PERCENT VOLTAGE DROP = $\frac{0.641}{24}$ × 100 = 2.67%

RESISTANCE

PER FOOT

18 *0.0*1278

REQUIRED

ON CIRCUIT

260'

980'

780'

325'

665'

- 19. 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.
- 20. 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 PANELS/EXTENDERS.
- 21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
- 22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
- 23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- 24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
- 25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT
- SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. 26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING
- CONTRACT OR PROVISIONS. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER,
- FILE NUMBER AND DATE OF MODIFICATIONS AT EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R".
- A. THE PRIMARY POWER SUPPLY TO EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A" TO EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND TO EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R" SHALL BE IN ACCORDANCE WITH NFPA 72 10.6.5 AND AS FOLLOWS:
- a) THE CIRCUIT BREAKER FEEDING THE RESPECTIVE PANEL SHALL BE LOCATED IN A LOCKED ROOM OR BEHIND A LOCKABLE DOOR AND BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY.
- b) THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PAINT LOCK-ON ACCESSORY "RED" IN COLOR.
- c) THE CIRCUIT BREAKER SHALL HAVE AN ENGRAVED NAMEPLATE THAT IDENTIFIES IT AS A "FIRE ALARM CIRCUIT". THIS ENGRAVED NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. MOUNT ONTO THE INTERIOR TRIM AND LOCATE ADJACENT TO CIRCUIT BREAKER WHERE

POSSIBLE.

SPEAKER RESISTANCE

(AMPS) LOAD

13 0.19 376.92 18

11 0.16 445.45

21 0.30 233.33

8.50 | 18 | 0.26 | 272.22 | 18 |

CURRENT OF SPEAKER WIRE SIZE

0.37 | 188.46 | 18

SPEAKER dB LOSS CALCULATIONS

WATTAGE OF

ON CIRCUIT

26

RESISTANCE SPEAKERS

3.32

12.52

9.97

CALCULATIONS ARE BASED ON EACH OF THE "INTERIOR" SPEAKERS TAPPED AT 1 WATT AND EACH OF THE "EXTERIOR" SPEAKERS TAPPED AT 2 WATTS.

. NOTIFICATION APPLIANCE CIRCUIT "N4

2 × 0.043A = 0.086A

 $2 \times 0.063A = 0.126A$

4 × 0.107A = <u>0.428A</u>

PERCENT VOLTAGE DROP = $\frac{0.558}{24}$ × 100 = 2.32%

4.15

d) THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S.#A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R". PROVIDE AN ENGRAVED NAMEPLATE (WHITE LETTERS ON A RED BACKGROUND) WHICH INDICATES THIS.

VOLTAGE AT WATTS AT

LOAD

67.132

67.881

SPEAKER SPEAKER

69.482 10.838

65.638 22.861

69.237 | 12.718

LOAD

19.894

dB LOSS

-0.36

-0.10

- B. ALL ENGRAVED NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF THE RESPECTIVE ENCLOSURE WITH SCREWS OR RIVETS.
- 28. PROVIDE A COPY OF THE BATTERY CALCULATION AT EXISTING FIRE ALARM CONTROL PANEL "F.A.C.P. #A", AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY "D.A.P.S. #A" AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL "P.E.P. #R". BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3 AND THEN FOLLOWED BY ANY VOICE MESSAGES.

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "CERTIFICATE OF COMPLETION" FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

SCOPE OF WORK

- CONNECT NEW DEVICES TO NEW AUTOMATIC FIRE ALARM SYSTEM FOR AREAS OF REMODEL INCLUDING INITIATING AND NOTIFICATION DEVICES.
- PROVIDE FIRE ALARM CONTROL PANEL, POWER EXPANDER PANELS, ADDRESSABLE INITIATION DEVICES, NOTIFICATION APPLIANCES, CONDUIT, CABLING, AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

THE SCHOOL DISTRICT SHALL PROVIDE A ON-SITE "FIRE WATCH" IN THE EVENT THAT THE EXISTING FIRE ALARM SYSTEM IS IMPAIRED AND/OR INTERRUPTED DURING CONSTRUCTION PER CALIFORNIA FIRE CODE, SECTION 3304, ARTICLE 3304.5.

FIRE ALARM BATT	CONTR ERY CA			A.CP."	
DESCRIPTION	QUANTITY	SUPV. C	CURRENT	ALARM (CURRENT
DESCRIPTION	QUANTITI	EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	0.360	0.360	0.360	0.360
POWER EXPANDER PANEL	2	0.00013	0.00026	0.00013	0.00026
SMOKE DETECTOR	243	0.0003	0.0729	0.0065	1.579
HEAT DETECTOR	46	0.0003	0.0138	0.0065	0.286
MONITOR MODULE	18	0.000375	0.0068	0.005	0.090
CONTROL RELAY	18	0.00023	0.0041	0.0065	0.117
	TOTALS		0.458		2.432

TOTAL ALARM CURRENT OF 2.432×0.250 (15 MINUTES) = 0.608 A.H. TOTAL SUPERVISORY CURRENT OF 0.458 x 24 HOURS

= 10*.99*2 A.H. 11.600 A.H.

x 1.2 SAFETY FACTOR 13.92 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

TOTAL AMP HOURS REQUIRED

EXISTING FIRE ALARI BATT	M DIGITA ERY CA			IMAND	"D.V.C"
DESCRIPTION	OLIANITITY	SUPV. C	CURRENT	ALARM (CURRENT
DESCRIPTION	QUANTITY	EACH	SUB-TOTAL	EACH	SUB-TOTAL
EXISTING AUDIO AMPLIFIER	1	0.13	0.13	1.00	1.00
NEW AUDIO AMPLIFIER "DAPS"	1	0.049	0.049	2.300	2.300
NETWORK VOICE GATEWAY	1	0.150	0.150	0.150	0.150
	TOTALS		0.770		3.450

TOTAL ALARM CURRENT OF 3.450×0.250 (15 MINUTES) = 0.863 A.H. TOTAL SUPERVISORY CURRENT OF 0.770 x 24 HOURS

= 18.48 A.H. 19.343 A.H.

x 1.2 SAFETY FACTOR 23.21 A.H.

PROVIDE 24.0 AMP HOUR BATTERIES

TOTAL AMP HOURS REQUIRED

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

> Exp. 6/30/23 Rose Sing Eastham & Associates Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

BAKERSFIELD

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS ✓ FLS ✓ ACS □

APP: 03-122490 INC:

DATE: 07/27/2023

CITY SCHOOL **DISTRICT** 1300 BAKER STREET

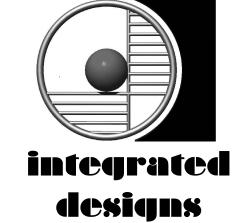
Project Name: **CENTRAL PLANT**

BAKERSFIELD, CA 93309

REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

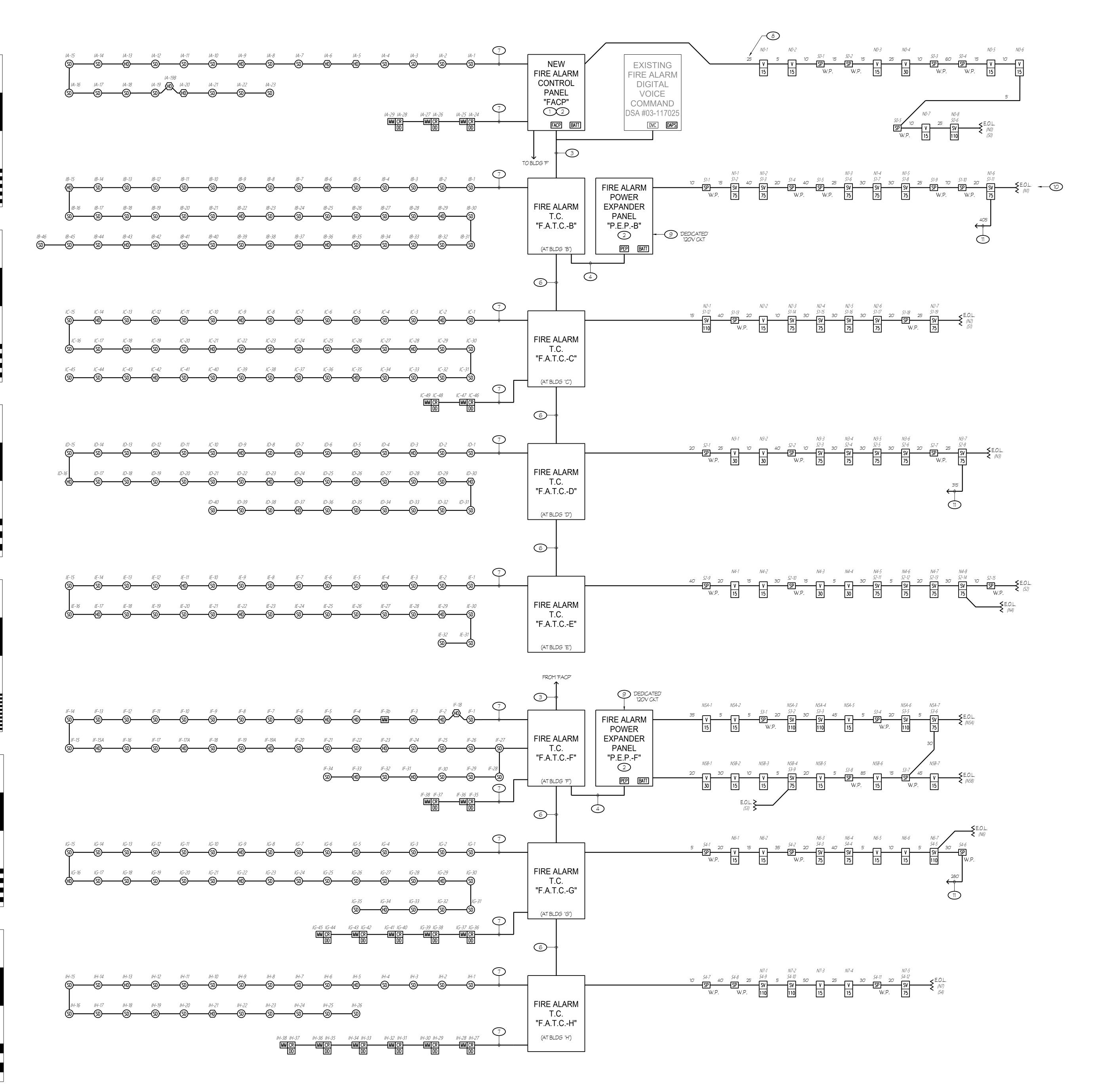
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents his document, the ideas and designs incorporated herein, as an instrumen to be used, in whole or in part for any other project without written authoriz COPYRIGHT 2020

FIRE ALARM CODES, NOTES, SYMBOLS, CALCS

5525

Sheet No.: E3.20



- 1) PROVIDE ALL PROGRAMMING NECESSARY FOR NEW COMPONENTS AND EXISTING FIRE ALARM DEVICES AS REQUIRED.
- 2 PROVIDE BATTERIES PER RESPECTIVE BATTERY CALCULATION.
- 3 1"C TWO "SFA" CABLES, ONE "SFSP" CABLE.
- 4 1"C ONE "SFA" CABLE, ONE 'SFSP' CABLE.
- 5 1 "C ONE 'SFA' CABLE, ONE 'SFSP' CABLES, 4 #12 (NAC).

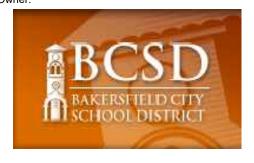
6) 1"C - ONE 'SFA' CABLE, ONE 'SFSP' CABLE, 2 #12 (NAC).

- 7 REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/CONDUCTOR REQUIREMENTS. TYPICAL.
- 8 LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE 'DIAGRAMMATIC' LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
- 9 CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PROVIDE AN ENGRAVED NAMEPLATE: "FIRE ALARM - LEAVE ON". NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. PAINT LOCK-ON ACCESSORY 'RED' IN COLOR.
- DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS "B" WIRING). TYPICAL.
- 11) SPEAKER CIRCUIT ROUTED TO NEXT BUILDING.

FIRE ALAR	MSYSTEN	1 SEQUE	NCE OF O	PERATIONS	
RESULT OF OPERATION			TYPE OF INITIATI	ON	
\Box	AREA SMOKE/ HEAT DETECTOR (1)	LOSS OF POWER	SHORT CIRCUIT/ GROUND FAULT	SMOKE DETECTOR FOR DOOR RELEASING	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YES			YES	YES
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL		YES	YES		
ANNUNCIATE SUPERVISORY AT FIRE ALARM CONTROL PANEL					
ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS	YES			YES	YES
TRANSFER TO BATTERY BACK-UP		YES			
SHUTDOWN RESPECTIVE A/C UNIT	YES				
CLOSE SMOKE/FIRE DAMPER	YES	YES			
ANNUNCIATE AT 24 HR. ATTENDED LOCATION	YES	YES			YES
CENTRAL STATION FOR MONITORING (ALARM)	YES				YES
CENTRAL STATION FOR MONITORING (TROUBLE)		YES			
CENTRAL STATION FOR					

(1) THIS OPERATION SHALL BE ACCOMPLISHED BY UTILIZING THE TOTAL SMOKE COVERAGE SYSTEM TO ACTIVATE THE RESPECTIVE RELAY MODULE. THE CONTACTS SHALL BE PROGRAMMED TO "OPEN", THUS DE-ENERGIZING THE 120V POWER RO THE ACTUATOR OF THE SMOKE/FIRE DAMPER OR "OPENING" THE H.V.A.C. CONTROL CIRCUIT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>07/27/2023</u>



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. COPYRIGHT 2020

Sheet Title:

FIRE ALARM SYSTEM RISER **DIAGRAM**

5525

Sheet No.: E3.21

No. **É**-18786 Exp. 6/30/23 Rose Sing Eastham & Associates Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

COMPLETE AUTOMATIC FIRE ALARM SYSTEM

PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM

SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR

DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR

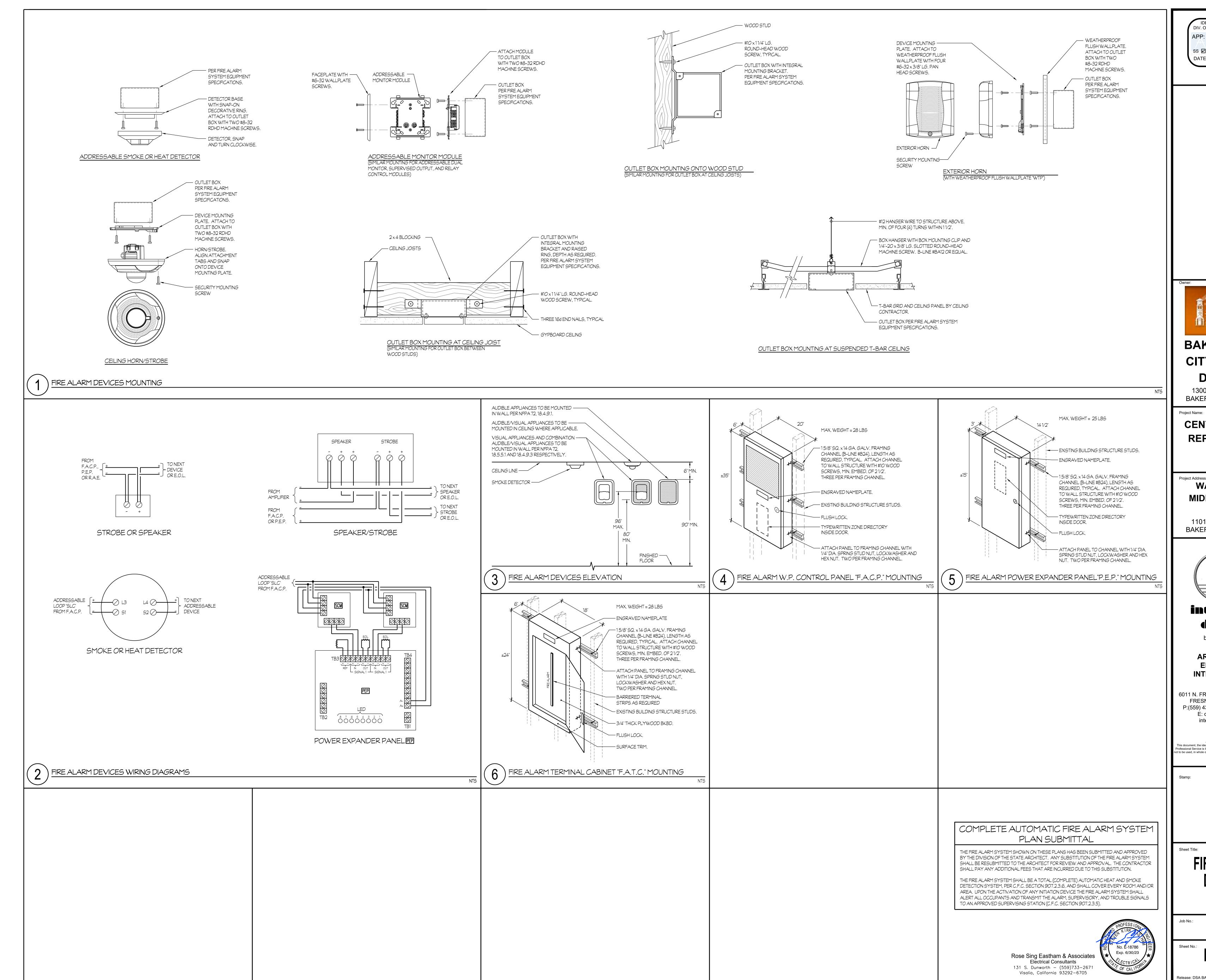
SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE

AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL

ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 07/27/2023

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



integrated

designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument ot to be used, in whole or in part for any other project without written authorization COPYRIGHT 2020

Sheet Title:

FIRE ALARM

5525

E3.22



NOTES (FOR SHEETS E4.01 AND E4.02 ONLY):

- EXISTING UTILITY FEED SHALL BE DISCONNECTED. PROVIDE NEW CONNECTION FROM NEW BOARD 'MSB2' TO FEED EXISTING BOARD DURING CONSTRUCTION, AS SHOWN ON SHEET E4.01.
- 2 EXISTING CHILLER EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION ACTIVITIES. EQUIPMENT SHALL BE DISCONNECTED AND REMOVED AT THE END OF NEW CONSTRUCTION.
- RETURN UTILITY METER EQUIPMENT TO UTILITY COMPANY AND PROVIDE CONNECTION TO POWER DISTRIBUTION BOARDS.
- 4 ——EP—— DENOTES EXISTING FEEDER AND/OR 'SPARE' CONDUIT(S) SHALL REMAIN, UNLESS OTHERWISE NOTED.
- ER—— DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE
- 6 EXISTING FEED SHALL BE INTERCEPTED AND REROUTED TO NEW BOARD FOR TEMPORARY CONNECTION. REFER TO SHEET E4.01.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 07/27/2023



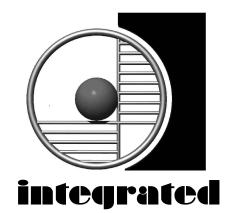
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

Stamp:

Sheet Title

| EQUIPMENT BID PACKAGE |

12/6/22

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

ONE LINE DIAGRAM - DEMO

- DEMO

5525

E4.00

NEW MAIN SWBD "MSB" LOAD CALCULATION: MAXIMUM DEMAND PER P.G. & E. RECORDS... FOR MAIN SWBD "MSB" METER #1009410722 . 232.4 kVA PLUS DEMAND FACTOR PER C.E.C. 220.35. NEW "CONNECTED" LOAD BEING ADDED . . . 765.4 kVA H.V.A.C. x 125% 765.4 kVA FUTURE CLASSROOM BUILDING. THEREFORE, THE NEW 1600 AMP MAIN SWITCHBOARD IS SUFFICIENT.

NOTES (FOR SHEETS E4.01 AND E4.02 ONLY):

1) P.G.&E. POWER POLE. VERIFY EXACT LOCATION AND RISER QUADRANT WITH P.G.&E PRIOR TO ROUGH-IN.

NEW CONCRETE PAD FOR P.G. LE. PROVIDED TRANSFORMER. COORDINATE WITH APPROVED P.G. LE. DRAWINGS.

3 PROVIDE LANDING LUGS PER P.G. &E. REQUIREMENTS.

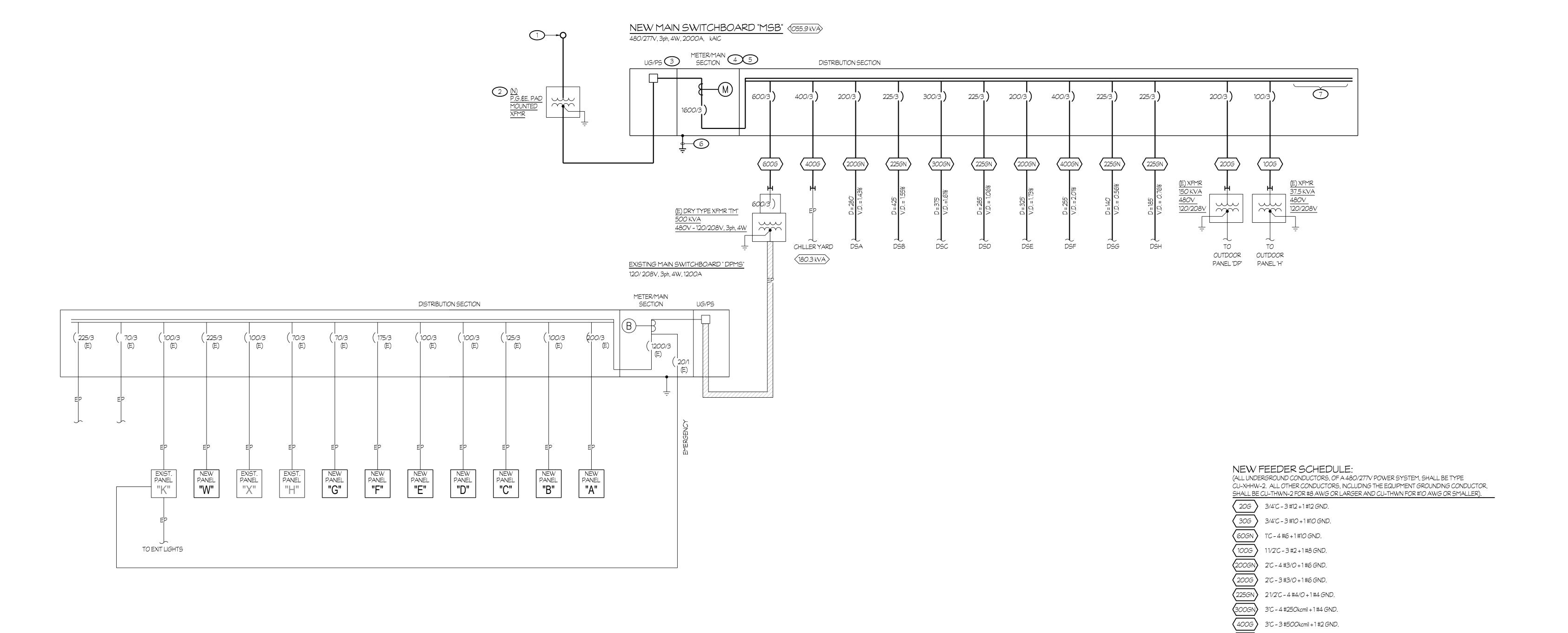
4 PROVIDE METERING FACILITIES PER P.G. LE. REQUIREMENTS.

MAIN CIRCUIT BREAKER SHALL BE 100% RATED ELECTRONIC TYPE, EQUIPPED WITH LONG-TIME, SHORT-TIME, INSTANTANEOUS-OFF TYPE AND GROUND FAULT TYPE CONFIGURATIONS. MAIN CIRCUIT BREAKER SHALL ALSO BE EQUIPPED WITH A TRIP INDICATOR AND LOCAL CURRENT METER. SQUARE D #RK SERIES OR EQUAL.

(6) 1#3/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #12/E5.00.

7 PROVIDE WITH SPACE AND MOUNTING HARDWARE FOR MINIMUM (6) 400 A FRAMES.

8 REFER TO PANEL SCHEDULE ON SHEET E4.03 FOR ADDITIONAL INFORMATION. TYPICAL FOR NEW PANELS SHOWN.



Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

4"C - 4 #500 kcmil + 1 #2 GND.

(2) 3"C - 3 #350 kcmil + 1 #1 GND. EACH

BAKERSFIELD

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

DATE: <u>07/27/2023</u>

APP: 03-122490 INC:

CITY SCHOOL DISTRICT 1300 BAKER STREET

BAKERSFIELD, CA 93309 Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. COPYRIGHT 2020

ONELINE DIAGRAM

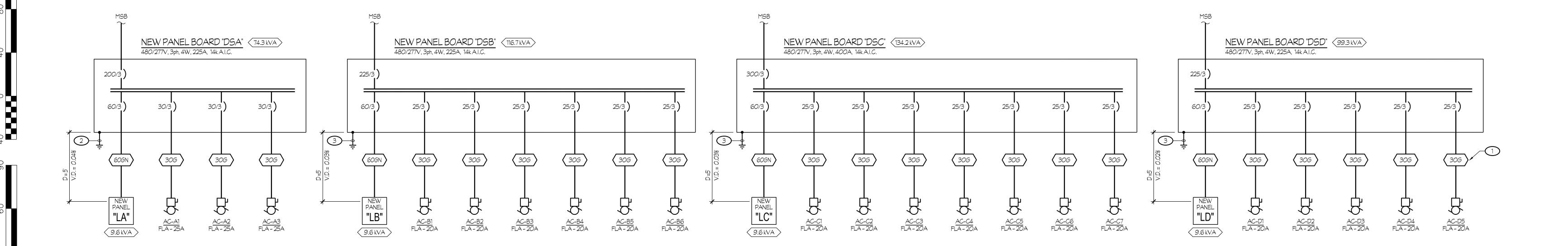
5525

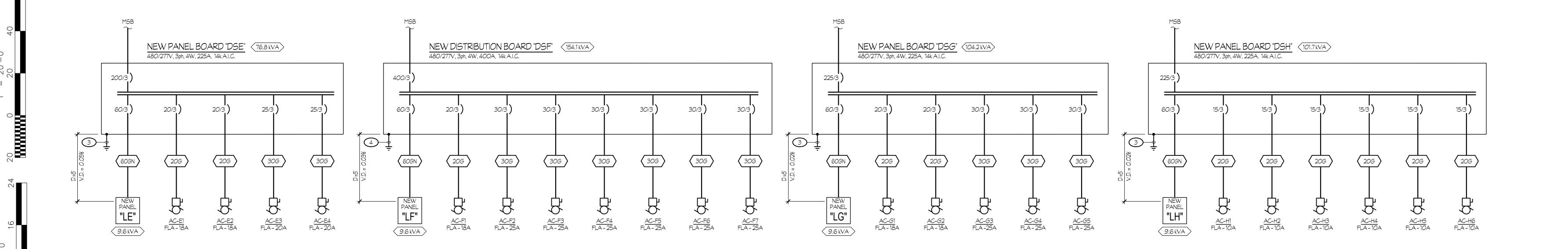
E4.01

Release: DSA BACKCHECK Issue Date: 06-13-2023

ONELINE DIAGRAM

- 1) REFER TO FEEDER SCHEDULE ON SHEET E4.01, TYPICAL.
- 2 PROVIDE 1 #4 GND. PER DETAIL #13/E5.00.
- 3 PROVIDE 1#4 GND. PER DETAIL #13/E5.00.
- 4 PROVIDE 1 #1/0 GND. PER DETAIL #13/E5.00.





IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR
SS FLS ACS D

DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON
MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

Stamp:

one Title:

DIAGRAM

5525

E4.02

Release: DSA BACKCHECK Issue Date: 06-13-2023

ONELINE DIAGRAM

CENTRAL PLANT REPLACEMENT

NTS

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

277/480V, 3 PH, 4 W 14K BREAKER A.I.C. 5 3/4" MAX. ENCL. DEPTH 100 A. BUSSING MAIN LUG ONLY PANEL "LA" 30 CIRCUIT SURF MOUNTING PER #6/E5.00
 LOAD: V.A.
 X
 E

 C
 B
 A
 A
 Y
 1 20/1 1500 20/1 2 3 20/1 1500 LIGHTS 5 20/1 1500 LIGHTS SPARE 20/1 6 7 20/1 SPARE 20/1 8 SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE LOAD SUMMARY CONNECTED LOAD (VA): 1500 1500 1500 TOTAL CALCULATED 25% LCL/LML (VA): LOAD FOR PANEL: 1500 1500 1500 TOTAL LOAD (VA): 5.4 5.4 5.4 TOTAL LOAD (AMPS):

		3 PH, 4 \							14K	_	ER A.I.		
		SING	MAIN	LUG ON	LY	-				_MAX. E			
30	CIRCU]	T				۲	ANE	L "LB"	SURF	- WOUN	TING PE	ER #6/E	5.00
CKT	BKR		OAD: V.	ı					I	.OAD: V.	1	BKR	KT TX
		A	В	С	DESCRIPTI	ION		DESCRIPTION	С	В	A	+	-
1	20/1	1500			LIGHTS			SPARE				20/1	2
3	20/1		1500		LIGHTS			SPARE				20/1	4
5	20/1			1500	LIGHTS			SPARE				20/1	6
7	20/1				SPARE			SPARE				20/1	8
9	20/1				SPARE			SPARE				20/1	10
11	20/1				SPARE			SPARE				20/1	12
13					SPACE			SPACE					14
15					SPACE			SPACE					16
17					SPACE			SPACE					18
19					SPACE			SPACE					20
21					SPACE			SPACE					22
23					SPACE			SPACE					24
25					SPACE			SPACE					26
27					SPACE			SPACE					28
29					SPACE			SPACE					30
LOA	D SUM	MARY			A	В	С			_			
CON	INECTE	D LOAD	(VA):		1500	1500	1500	TOTAL CALCULATED					
25%	LCL/LN	ΛL (VA)			0	0	0	LOAD FOR PANEL:					
		AD (VA)			1500	1500	1500	4500 VA					
TOT	AL LOA	AD (AMP	S):		5.4	5.4	5.4						

277	/480V,	3 PH, 4	W						14K	BREAK	ER A.I.	C.			
		SING	MAIN	LUG ON	ILY	۲		ı III 6II		MAX. E			0		
30	CIRCUI	LI				۲	ANE	L "LC"	SURF	MOUNTING PER #6/E5.00					
CKT	BKR	L A	OAD: V.	A. C	DESCRIPT	ION		DESCRIPTION	C	.OAD: V. B	A. A	BKR	CKT		
1	20/1	1500			LIGHTS			SPARE				20/1	2		
3	20/1		1500		LIGHTS			SPARE				20/1	4		
5	20/1			1500	LIGHTS			SPARE				20/1	6		
7	20/1				SPARE			SPARE				20/1	8		
9	20/1				SPARE			SPARE				20/1	10		
11	20/1				SPARE			SPARE				20/1	12		
13					SPACE			SPACE					14		
15					SPACE			SPACE					16		
17					SPACE			SPACE					18		
19					SPACE			SPACE					20		
21					SPACE			SPACE					22		
23					SPACE			SPACE					24		
25					SPACE			SPACE					26		
27					SPACE			SPACE					28		
29					SPACE			SPACE					30		
LOA	D SUM	MARY	•	•	Α	В	С				•	•			
CON	INECTE	DLOAD	(VA):		1500	1500	1500	TOTAL CALCULATED							
25%	LCL/LA	NL (VA)	:		0	0	0	LOAD FOR PANEL:							
TOT	AL LOA	AD (VA)	:		1500	1500	1500	4500 VA							
TOT	AL LOA	AD (AMP	² S) :		5.4	5.4	5.4								

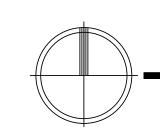
277	/480V,	3 PH, 4	W						14K	BREAK	ER A.I.	C.	
100	A. BUS	SING	MAIN	LUG ON	ILY	_			5 3/4"	_MAX. E	NCL. D	EPTH	
30	CIRCU]	T				P	ANE	L "LD"	SURF	-WONN.	TING P	ER #6/E	5.0
CKT	BKR	_	OAD: V.	A.					L	OAD: V.	Α.	BKR	CKT
		Α	В	С	DESCRIPT	ION		DESCRIPTION	C	В	Α	+	+
1	20/1	1500			LIGHTS			SPARE				20/1	2
3	20/1		1500		LIGHTS			SPARE				20/1	4
5	20/1			1500	LIGHTS			SPARE				20/1	6
7	20/1				SPARE			SPARE				20/1	8
9	20/1				SPARE			SPARE				20/1	1
11	20/1				SPARE			SPARE				20/1	1
13					SPACE			SPACE					1
15					SPACE			SPACE					10
17					SPACE			SPACE					1
19					SPACE			SPACE					2
21					SPACE			SPACE					2
23					SPACE			SPACE					2
25					SPACE			SPACE					2
27					SPACE			SPACE					2
29					SPACE			SPACE					3
LOA	D SUM	M <i>A</i> RY	l		А	В	С			_	1	1	
CON	INECTE	D LOAD	(VA):		1500	1500	1500	TOTAL CALCULATED					
25%	LCL/LN	NL (VA)	:		0	0	0	LOAD FOR PANEL:					
		AD (VA)			1500	1500	1500	4500 VA					
		AD (AMP			5.4	5.4	5.4						

277/	/480V, 3	3 PH, 4	W						14K	BREAK	ER A.I.	C.
100	A. BUSS	SING	MAIN	LUG ON	ILY				5 3/4"	MAX. E	NCL. D	EPTH
30	CIRCUI	T				F	PANE	L "LE"	SURF	_WONN.	TING P	ER #6
CKT	BKR	L	OAD: V.		<u> </u>				1	OAD: V.	A .	BKR
_		Α	В	С	DESCRIPT	ION		DESCRIPTION	С	В	Α	+
1	20/1	1500			LIGHTS			SPARE				20,
3	20/1		1500		LIGHTS			SPARE				20,
5	20/1			1500	LIGHTS			SPARE				20/
7	20/1				SPARE			SPARE				20,
9	20/1				SPARE			SPARE				20/
11	20/1				SPARE			SPARE				20,
13					SPACE			SPACE				
15					SPACE			SPACE				
17					SPACE			SPACE				
19					SPACE			SPACE				
21					SPACE			SPACE				
23					SPACE			SPACE				
25					SPACE			SPACE				
27					SPACE			SPACE				
29					SPACE			SPACE				
LOA	D SUM	MARY	•	,	Α	В	С				•	•
CON	NECTE	D LOAD	(VA):		1500	1500	1500	TOTAL CALCULATED				
25%	LCL/LN	NL (VA)	:		0	0	0	LOAD FOR PANEL:				
тот	AL LOA	D (VA)	:		1500	1500	1500	4500 VA				
TOT	AL LOA	D (AMP	?S):		5.4	5.4	5.4					

		3 PH, 4 ' SING		LUG ON	LY				5 3/4"	_ MAX. E	NCL. D	EPTH	
30	CIRCU]	T				P	ANE	L "LF"	SURF		TING P	ER #6/E	Ξ
СКТ	BKR	A L	OAD: V.	.A. C	DESCRIPTI	-ON		DESCRIPTION	C	.OAD: V.	.A. A	BKR	1
1	20/1	1500			LIGHTS	.011		SPARE				20/1	1
3	20/1		1500		LIGHTS			SPARE				20/1	
5	20/1			1500	LIGHTS			SPARE				20/1	
7	20/1				SPARE			SPARE				20/1	
9	20/1				SPARE			SPARE				20/1	
11	20/1				SPARE			SPARE				20/1	1
13					SPACE			SPACE					
15					SPACE			SPACE					
17					SPACE			SPACE					
19					SPACE			SPACE					
21					SPACE			SPACE					1
23					SPACE			SPACE					
25					SPACE			SPACE					
27					SPACE			SPACE					
29					SPACE			SPACE					
LOA	ND SUM	MARY		_	Α	В	С			_			
CON	NECTE	D LOAD	(VA):		1500	1500	1500	TOTAL CALCULATED					
25%	LCL/LA	ΛL (VA)	:		0	0	0	LOAD FOR PANEL:					
тот	TAL LOA	AD (VA)	;		1500	1500	1500	4500 VA					
TOT	TAL LOA	AD (AMP	95):		5.4	5.4	5.4						

		3 PH, 4 ' SING		LUG ON	ILY	_			14K 5 3/4"	BREAKI MAX. E			
30	CIRCUI	T				F	ANE	L "LG"	SURF	MOUN'	TING P	ER #6/E	5.00
СКТ	BKR	A L	OAD: V B	A. C	DESCRIPT:	ION		DESCRIPTION	C	OAD: V. B	A. A	BKR	CKT
1	20/1	1500			LIGHTS			SPARE				20/1	2
3	20/1		1500		LIGHTS			SPARE				20/1	4
5	20/1			1500	LIGHTS			SPARE				20/1	6
7	20/1				SPARE			SPARE				20/1	8
9	20/1				SPARE			SPARE				20/1	10
11	20/1				SPARE			SPARE				20/1	12
13					SPACE			SPACE					14
15					SPACE			SPACE					16
17					SPACE			SPACE					18
19					SPACE			SPACE					20
21					SPACE			SPACE					22
23					SPACE			SPACE					24
25					SPACE			SPACE					26
27					SPACE			SPACE					28
29					SPACE			SPACE					30
LOA	NUS DI	MARY			Α	В	С						
CON	NECTE	D LOAD	(VA):		1500	1500	1500	TOTAL CALCULATED					
25%	LCL/LA	ΛL (VA)	;		0	0	0	LOAD FOR PANEL:					
TOI	TAL LOA	AD (VA)	:		1500	1500	1500	4500 VA					
TOI	TAL LOA	AD (AMP	'5):		5.4	5.4	5.4						

277	/480V,	3 PH, 4	W						14K	BREAK	ER A.I.C	; .		
100	A. BUS	SING	MAIN	LUG ON	LY				5 3/4"	_MAX. E	NCL. DE	EPTH		
30	CIRCUI	T				Р	ANE	L "LH"	SURF MOUNTING PER #6/E5.00					
CKT	BKR	A L	OAD: V. B	A. C	DESCRIPTI	-ON		DESCRIPTION	C	.OAD: V. B	.A. A	BKR	CKT	
1	20/1	1500			LIGHTS	.014		SPARE	+ -			20/1	2	
3	20/1		1500		LIGHTS			SPARE				20/1	4	
5	20/1			1500	LIGHTS			SPARE				20/1	6	
7	20/1				SPARE			SPARE				20/1	8	
9	20/1				SPARE			SPARE				20/1	10	
11	20/1				SPARE			SPARE				20/1	12	
13					SPACE			SPACE					14	
15					SPACE			SPACE					16	
17					SPACE			SPACE					18	
19					SPACE			SPACE					20	
21					SPACE			SPACE					22	
23					SPACE			SPACE					24	
25					SPACE			SPACE					26	
27					SPACE			SPACE					28	
29					SPACE			SPACE					30	
LOA	D SUM	MARY			A	В	С							
		D LOAD			1500	1500	1500	TOTAL CALCULATED						
25%	LCL/LA	ΛL (VA)	:		0	0	0							
TO	TAL LOA	AD (VA)	:		1500	1500	1500	4500 VA						
TO	TAL LOA	AD (AMP	'5):		5.4	5.4	5.4							



PANEL SCHEDULES

CENTRAL PLANT REPLACEMENT

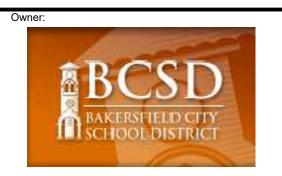
SCALE:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122490 INC:

REVIEWED FOR

SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents

This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.

© COPYRIGHT 2020

amp:

Sheet Title:

| EQUIPMENT BID PACKAGE |

12/6/22

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visolia, California 93292-6705

Exp. 6/30/23

PANEL SCHEDULES

5525

E4.03

120/	208V, 3	PH, 4 W	•						10K	BREAK			
		SING -	225 A. N	MAIN BK	KR.		- A A I F	-1 " A "		MAX. E			
42	CIRCUI	Т					PANE	EL "A"	SURF	MOUNT	ING PE	R _/	
CKT	BKR	L	OAD: V.	۹.					L	OAD: V.	۹.	BKR	CKT
		Α	В	С	DESCRIPTI			DESCRIPTION	С	В	Α		
1	20/1	1440			LIGHTS - O			LIGHTS - WORK AREA, CONTROLS			1300	20/1	2
3	20/1		1000		LIGHTS = V			LIGHTS - WORK AREA, FLOODS		1400		20/1	4
5	20/1			12200	LIGHTS - SU	PPLY ROO	M, FA	LIGHTS - OFFICE BATH, FAN	1500			20/1	6
7	20/1	1000			RECEPT.			RECEPT.			1000	20/1	8
9	20/2		1000		HAND DRY	ERS		LIGHTS - OUTDOOR		1100		20/1	10
11				1200				RECEPT.	1000			20/1	12
13		1000						SIGNAL RECTIFIER			500	20/1	14
15	70/3		500		WEST A.C.			LIGHTS - OUTSIDE FLOODS		1800		20/1	16
17				1050				TIME CLOCK (FOR A.C.)				20/1	18
19													20
21	70/3				EAST A.C.			MAIN UNIT/ CENTER A.C.				70/3	22
23													24
25	20/1				(E) LOAD			LIGHTS/RECEPT ENTRY				20/1	26
27	20/1		540		RECEPT - \	NP ON RO	OOF	SPARE				20/1	28
29	20/1				SPARE			SPARE				20/1	30
31	20/1				SPARE			SPARE				20/1	32
33	20/1				SPARE			SPARE				20/1	34
35	20/1				SPARE			SPARE				20/1	36
37	20/1				SPARE			SPARE				20/1	38
39	20/1				SPARE			SPARE				20/1	40
41	20/1				FIRE ALAR	M "FACP"		SPARE				20/1	42
LOA	D SUMI	MARY			A	В	С						<u> </u>
		D LOAD	(VA):		6240	7340	16950	TOTAL CALCULATED					
		1L (VA) :			0	0	0	LOAD FOR PANEL:					
		D (VA) :			6240 7340 16950			30530 VA					
		D (AMPS	3) ·		52.0	61.2	141.3						

	0/208V, 3		/						10K	_	ER A.I.C		
	5 A. BUS		225 A. I	MAIN B	KR.				5 3/4"	-	NCL. DE	PTH	
42	CIRCU	IT					PANE	EL "B"	SURF	MOUNT -	ΓING		
CKT	BKR	A	OAD: V. в	A. C	DESCRIPTI	ON		DESCRIPTION	C	OAD: V.	1	BKR] !
1	30/1	2250	В		(E) LOAD	ON		(E) LOAD		В	2250	30/1	ť
3	+		2250		(E) LOAD			(E) LOAD		2250		30/1	t
5	+			2250	(E) LOAD			(E) LOAD	2250			30/1	t
7	30/1	2250			(E) LOAD			(E) LOAD			2250	30/1	t
9	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1	ϯ.
1	30/1			2250	(E) LOAD			(E) LOAD	2250			30/1	†.
13	3 20/1	1400			(E) LOAD			(E) LOAD			1000	20/1	t
15	5 20/1		1000		RECEPT.			RECEPT.		1000		20/1	1
17	7 20/1			1000	RECEPT.			AIR PURIFIER	600			20/1	t
19	20/1	600			AIR PURIFI	ER		AIR PURIFIER			600	20/1	1
2	20/1		600		AIR PURIFI	ER		AIR PURIFIER		600		20/1	1
23	3 20/1			600	AIR PURIFI	ER		SPARE				20/1	1
25	20/1				SPARE			SPARE				20/1	1
27	7 20/1				SPARE			SPARE				20/1	1
29	20/1				SPARE			SPARE				20/1	[
3′	20/1				SPARE			SPARE				20/1	1
33	3 20/1				SPARE			SPARE				20/1	;
35	20/1				SPARE			SPARE				20/1	(
37	20/1				SPARE			SPARE				20/1	;
39	20/1				SPARE			RECEPT ROOF		1080		20/1	4
4′	20/1				FIRE ALAR	M "P.E.P.	-B"	MECHANICAL CONTROLS	500			20/1	١,
LC	AD SUM	MARY			Α	В	С						
CC	NNECTE	D LOAD	(VA) :		12600	13280	11700	TOTAL CALCULATED					
25	% LCL/LN	ЛL (VA) :			0	0	0	LOAD FOR PANEL:					
TC	TOTAL LOAD (VA): 12600 13280 11700				11700	37580 VA							
ТС	TOTAL LOAD (AMPS): 105.0 110.7 97.4					97.5							

42	CIRCUI	т					PANE	EL "C"	SURF	- MOUNT	TING	
72	0111001	•					I AINL	L O		-		
K	BKR	A L	OAD: V. В	A. C	DESCRIPT	ION.		DESCRIPTION	C	OAD: V	A. A	BKR
1	30/1	2250			(E) LOAD	ION		(E) LOAD	+ -		2250	30/1
3	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1
5	30/1			2250	(E) LOAD			(E) LOAD	2250			30/1
7	30/1	2250			(E) LOAD			(E) LOAD			2250	30/1
9	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1
11	20/1			1500	(E) LOAD			(E) LOAD	1500			20/1
13	20/1	1500			(E) LOAD			(E) LOAD			1500	20/1
15	20/1		1360		(E) LOAD			(E) LOAD		1000		20/1
17	20/1			1000	RECEPT.			RECEPT.	1000			20/1
19	20/1	1000			RECEPT.			SPARE				20/1
21	20/1		600		AIR PURIF	IER		(E) LOAD		500		20/1
23	20/1			600	AIR PURIF	IER		AIR PURIFIER	600			20/1
25	20/1	600			AIR PURIF	IER		AIR PURIFIER			600	20/1
27	20/1				SPARE			SPARE				20/1
29	20/1				SPARE			SPARE				20/1
31	20/1				SPARE			SPARE				20/1
33	20/1				SPARE			SPARE				20/1
35	20/1				SPARE			SPARE				20/1
37	20/1				SPARE			SPARE				20/1
39	20/1				SPARE			RECEPT ROOF		1080		20/1
41	20/1				SPARE			MECHANICAL CONTROLS	500			20/1
LOA	D SUMI	MARY			А	В	С					
CON	NECTE	D LOAD	(VA) :		14200	13540	11200	TOTAL CALCULATED				
25%	LCL/LN	/IL (VA) :			0	0	0	LOAD FOR PANEL:				
ТОТ	AL LOA	D (VA) :			14200	13540	11200	38940 VA				
тот	AL LOA	OTAL LOAD (AMPS) : 118.3 112.8 93.3					93.3					

	A. BUS		225 A. I	MAIN B	KR.					_	NCL. DE	PTH	
42	CIRCUI	Т					PANE	EL "D"	SURF	MOUNT	ΓING		
СКТ	BKR	L A	OAD: V.	A. C	DESCRIPTI	ION		DESCRIPTION	C	OAD: V.	A. A	BKR	-
1	30/1	2250			(E) LOAD	ION		(E) LOAD	+ -		2250	30/1	-
3	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1	-
5	30/1			2250	(E) LOAD			(E) LOAD	2250			30/1	-
7	30/1	2250			(E) LOAD			(E) LOAD			2250	30/1	_
9	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1	_
11	20/1			1350	(E) LOAD			(E) LOAD	1300			20/1	_
13	20/1	900			(E) LOAD			RECEPT.			1000	20/1	-
15	20/1		1000		RECEPT.			RECEPT.		1000		20/1	_
17	20/1			500	(E) LOAD			AIR PURIFIER	600			20/1	
19	20/1				SPARE			AIR PURIFIER			600	20/1	
21	20/1				SPARE			AIR PURIFIER		600		20/1	_
23	20/1				SPARE			AIR PURIFIER	600			20/1	
25	20/1				SPARE			AIR PURIFIER			600	20/1	
27	20/1				SPARE			SPARE				20/1	_
29	20/1				SPARE			SPARE				20/1	
31	20/1				SPARE			SPARE				20/1	
33	20/1				SPARE			SPARE				20/1	
35	20/1				SPARE			SPARE				20/1	
37	20/1				SPARE			SPARE				20/1	
39	20/1				SPARE			RECEPT ROOF		900		20/1	
41	20/1				SPARE			MECHANICAL CONTROLS	500			20/1	
LOA	D SUMI	MARY			А	В	С						
CON	NECTE	D LOAD	(VA) :		12100	12500	9350	TOTAL CALCULATED					
25%	LCL/LN	/IL (VA) :			0	0	0	LOAD FOR PANEL:					
тот	AL LOA	D (VA) :			12100	12500	9350	33950 VA					
тот	AL LOA	OTAL LOAD (AMPS): 100.8 104.2 77.9				77.9							

120/208V, 3 PH, 4 W 225 A. BUSSING 225 A. MAIN BKR. 42 CIRCUIT PA								EL "E"		BREAKER A.I.C. 4" MAX. ENCL. DEPTH RF MOUNTING				
CKT	BKR	A	OAD: V.	А. С	DESCRIPT	ΓΙΟΝ		DESCRIPTION	C	OAD: V.	A. A	BKR	CKT	
1	30/1	2250			(E) LOAD			(E) LOAD			2250	30/1	2	
3	30/1		2250		(E) LOAD			(E) LOAD		2250		30/1	4	
5	20/1			1500	(E) LOAD			(E) LOAD	1500			20/1	6	
7	20/1	1500			(E) LOAD			(E) LOAD			1500	20/1	8	
9	20/1		1200		(E) LOAD			(E) LOAD		1500		20/1	10	
11	20/1			1410	(E) LOAD			(E) LOAD	1500			20/1	12	
13	20/1	1000			RECEPT.			RECEPT.			1000	20/1	14	
15	20/1		800		(E) LOAD			RECEPT.		1000		20/1	16	
17	20/1			800	(E) LOAD			(E) LOAD	800			20/1	18	
19	20/1				SPARE			SPARE				20/1	20	
21	20/1				SPARE			SPARE				20/1	22	
23	20/1			600	AIR PURIF	TIER		SPARE				20/1	24	
25	20/1	600			AIR PURIF	IER		SPARE				20/1	26	
27	20/1		600		AIR PURIF	IER		SPARE				20/1	28	
29	20/1			600	AIR PURIF	TIER		SPARE				20/1	30	
31	20/1				SPARE			SPARE				20/1	32	
33	20/1				SPARE			SPARE				20/1	34	
35	20/1				SPARE			SPARE				20/1	36	
37	20/1				SPARE			SPARE				20/1	38	
39	20/1				SPARE			RECEPT ROOF		720		20/1	40	
41	20/1				SPARE			MECHANICAL CONTROLS	500			20/1	42	
LOA	D SUMI	MARY	- '		А	В	С							
CONNECTED LOAD (VA): 10100 10320 9210					9210	TOTAL CALCULATED								
25% LCL/LML (VA) : 0 0 0					0	LOAD FOR PANEL:								
тот	AL LOA	D (VA) :			10100	10320	9210	29630 VA						
ТОТ	AL LOA	D (AMPS	S):		84.2	86.0	76.8							

	A. BUSS		225 A. I	VIAIN DI	uv.		PANE	EL "F"		_MAX. E _MOUN1 -		-1 111	
CKT	BKR	A L	OAD: V.	A. C	DESCRIPTI	ON		DESCRIPTION	C	.OAD: V	A. A	BKR	T
1	20/1	500			(E) LOAD			(E) LOAD			500	20/1	†
3	20/1		500		(E) LOAD			(E) LOAD		500		20/1	1
5	20/1			500	(E) LOAD			(E) LOAD	500			20/1	1
7	20/1	500			(E) LOAD			(E) LOAD			500	20/1	1
9	20/1		500		(E) LOAD			(E) LOAD		500		20/1	1
11	20/1			800	AIR PURIFI	ER		SPARE				20/1	1
13	20/1				SPARE			SPARE				20/1	1
15	20/1				SPARE			SPARE				20/1	1
17	20/1				SPARE			SPARE				20/1	1
19	20/1				SPARE			SPARE				20/1	Ī
21	20/1				SPARE	SPARE		SPARE				20/1	1
23	20/1				SPARE			SPARE				20/1	1
25	20/1				SPARE			SPARE				20/1	1
27	20/1				SPARE			SPARE				20/1	1
29	20/1				SPARE			SPARE				20/1	1
31	20/1				SPARE			SPARE				20/1	1
33	20/1				SPARE			SPARE				20/1	7
35	20/1				SPARE			SPARE				20/1	1
37	20/1	360			RECEPT	ROOF							$\left[\right]$
39	20/1		500		MECHANIC	AL CONT	ROLS	(E) LOAD				50/3	
41	20/1			500	FIRE ALARI	M "P.E.P.	-F"						
LOA	AD SUMI	MARY			Α	В	С			_			
COI	NNECTE	D LOAD	(VA):		2360	2500	2300	TOTAL CALCULATED					
25%	25% LCL/LML (VA): 0 0 0			0	LOAD FOR PANEL:								
TOT	TAL LOA	D (VA) :			2360	2500	2300	7160 VA					
TOT	TAL LOA	D (AMPS	S):		19.7	20.8	19.2						

10K BREAKER A.I.C.

120/208V, 3 PH, 4 W

120/208V, 3 PH, 4 W

	A. BUSS		MLO A.	IVI/AIIV L	nuv.		PANE	EL "G"		_MAX. E _MOUNT -		-1 111	
CKT	BKR	L	OAD: V.	Α.	T				L	.OAD: V.	Α.	BKR	KT T
		Α	В	С	DESCRIPT	ION		DESCRIPTION	С	В	A		+
1	20/1	500			(E) LOAD			(E) LOAD			500	20/1	2
3	20/1		500		(E) LOAD			(E) LOAD		500		20/1	4
5	20/1			500	(E) LOAD			(E) LOAD	500			20/1	6
7	20/1	500			(E) LOAD			(E) LOAD			500	20/1	8
9	20/1		500		(E) LOAD			(E) LOAD		500		20/1	10
11	20/1			500	(E) LOAD			(E) LOAD	500			20/1	12
13	20/1	500			(E) LOAD			(E) LOAD			500	20/1	14
15	20/1		500		(E) LOAD			(E) LOAD		500		20/1	16
17	20/1			500	(E) LOAD			(E) LOAD	500			20/1	18
19	20/1	500			(E) LOAD			(E) LOAD			500	20/1	20
21	20/1		500		(E) LOAD			(E) LOAD		500		20/1	22
23	20/1			800	AIR PURIF	AIR PURIFIER		SPARE				20/1	24
25	20/1	800			AIR PURIF	IER		SPARE				20/1	26
27	20/1		800		AIR PURIF	IER		SPARE				20/1	28
29	20/1				SPARE			SPARE				20/1	30
31	20/1				SPARE			SPARE				20/1	32
33	20/1				SPARE			SPARE				20/1	34
35	20/1				SPARE			SPARE				20/1	36
37	20/1	360			RECEPT	ROOF							38
39	20/1		500		MECHANIC	CAL CONT	ROLS	SPACE					40
41	20/1				SPARE								42
LOA	D SUM	//ARY			А	В	С				•	•	
CON	NECTE	D LOAD	(VA) :		5160	5300	3800	TOTAL CALCULATED					
25%	25% LCL/LML (VA) : 0 0 (0	LOAD FOR PANEL:							
тот	OTAL LOAD (VA): 5160 5300 380				3800	14260 VA							
TOT	OTAL LOAD (AMPS): 43.0 44.2 31.7				31.7								

10K BREAKER A.I.C.

225	A. BUS		225 A. I	MAIN BK	KR.		PANE	EL "W"		MAX. E			
CKT	BKR	A L	OAD: V.	А. С	DESCRIPT	ΓΙΟΝ		DESCRIPTION	C	OAD: V.	А. А	BKR	KT
1	20/1	1500			(E) LOAD			(E) LOAD			1500	20/1	2
3	20/1		1500		(E) LOAD			(E) LOAD		1500		20/1	4
5	20/1			1500	(E) LOAD			(E) LOAD	1500			20/1	6
7	20/1	1500			(E) LOAD			(E) LOAD			1500	20/1	8
9	20/1		1550		(E) LOAD			RECEPT.		1000		20/1	10
11	20/1			1000	RECEPT.			RECEPT.	1000			20/1	12
13	20/1	1000			RECEPT.			RECEPT.			1000	20/1	14
15	20/1		1000		RECEPT.			RECEPT.		1000		20/1	16
17	20/1			1000	RECEPT.			(E) LOAD	800			20/1	18
19	20/1	500			(E) LOAD			SPARE				20/1	20
21	20/1				SPARE			SPARE				20/1	22
23	20/1				SPARE			SPARE				20/1	24
25	50/2	3000			OVEN RAI	NGE		OVEN RANGE			3000	50/2	26
27	30/2		3000		OVENTA	NOL .		OVENTANGE		3000		30/2	28
29	50/2			3000	OVEN RAI	NGE		OVEN RANGE	3000			50/2	30
31	30/2	3000			OVENTOR	10 L		OVERVICANOE			3000	30/2	32
33	20/1				SPARE			SPARE				20/1	34
35	20/1				SPARE			SPARE				20/1	36
37	20/1				SPARE			SPARE				20/1	38
39	20/1				SPARE			RECEPT ROOF				20/1	40
41	20/1				SPARE			MECHANICAL CONTROLS	500			20/1	42
LOAD SUMMARY A B					С								
CONNECTED LOAD (VA): 20500 13550 13300					13300	TOTAL CALCULATED							
25%	25% LCL/LML (VA): 0 0 (0	LOAD FOR PANEL:						
тот	OTAL LOAD (VA): 20500 13550 13300					13300	47350 VA						
TOT	OTAL LOAD (AMPS): 170.8 112.9					110.8							

TYPICAL PANEL SCHEDULE NOTES:

(1) PROVIDE A LOCK-ON DEVICE AT THIS CIRCUIT BREAKER, "RED IN COLOR", SPACEAGE #ELOCK-FA OR EQUAL. PROVIDE AN ENGRAVED NAMEPLATE: "FIRE ALARM CIRCUIT", WHITE LETTERS ON A RED BACKGROUND. MOUNT NAMEPLATE ONTO INTERIOR TRIM AND ADJACENT TO CIRCUIT BREAKER.

Rose Sing Eastham & Associates
Electrical Consultants

131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

| EQUIPMENT BID PACKAGE | 12/6/22

5525

CENTRAL PLANT REPLACEMENT

PANEL SCHEDULES

SCALE: NTS

DIV. OF THE STATE ARCHITEC

APP: 03-122490 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93309

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

by SOMAM, Inc.

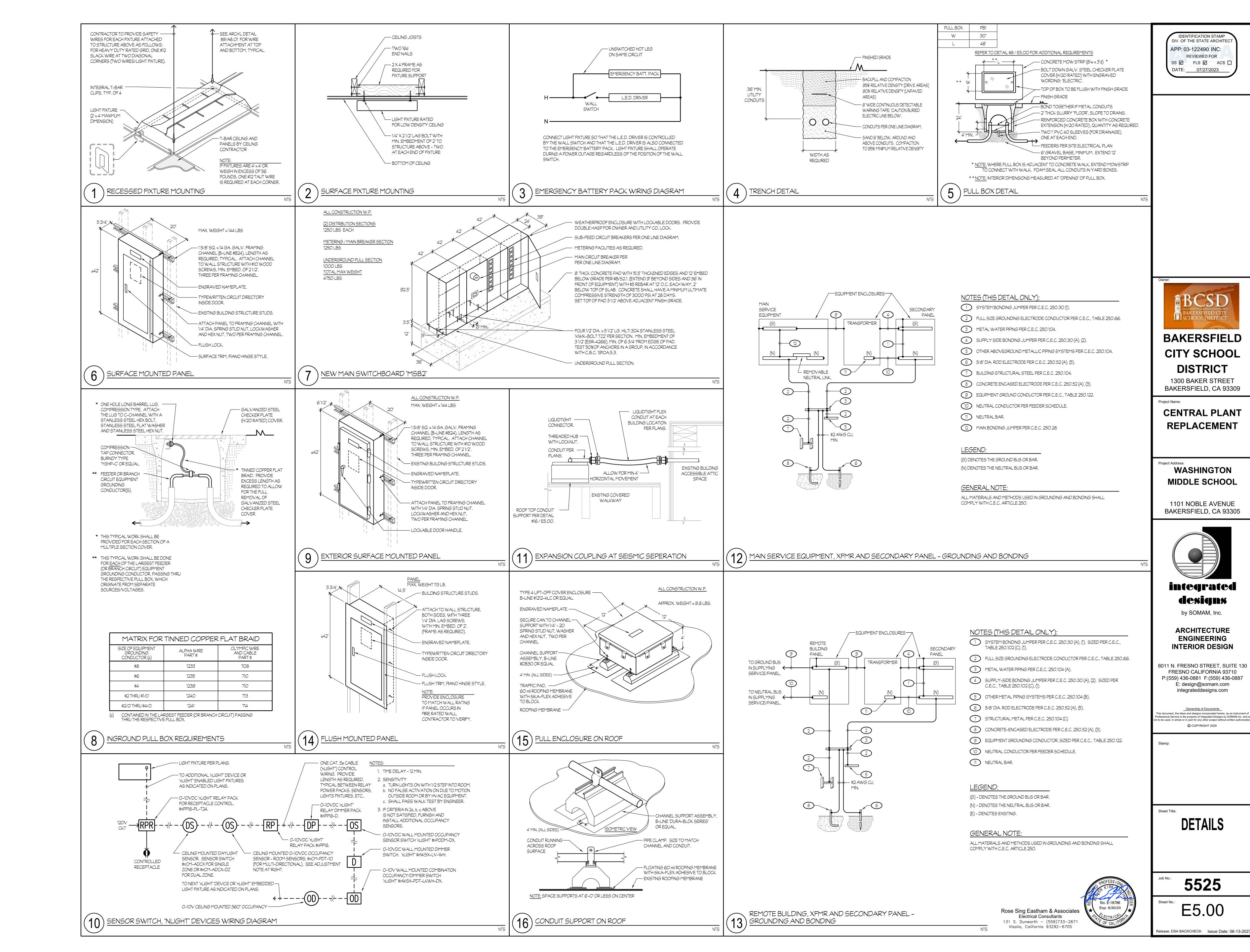
6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. COPYRIGHT 2020

PANEL

SCHEDULES

E4.04





PHOTOELECTRIC DUCT SMOKE DETECTOR AIR PRODUCTS & CONTROLS

PRODUCT DESCRIPTION

The SM-501-P is a 4 wire conventional duct smoke detector that provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential Applications. It has been specially designed to allow linkage of common detector functions for up to 30 detectors.

AGENCY LISTING





PRODUCT FEATURES

- Listed for high temperature applications Clear cover fitted with 4 captive screws
- Interconnect up to 30 units for common functions Large terminal connection screws UL, CUL, CSFM, and MEA Listed
- Compact Size Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- Rugged steel back box with clear cover Compatible with the WP-1 weatherproof enclosure
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
 Easy retro-fit/upgrade of discontinued RW Series
 - Interchangeable "Plug-In" photoelectric heads
 - Easy mounting without cover removal Advanced detector head design yields internal dust
 - filtering with no additional screens or filters to clean Over 15 remote accessories available

ENGINEERS & ARCHITECTS SPECIFICATIONS

Air duct smoke detectors shall be Air Products and Controls Inc. SM-501-P. The detectors shall be listed by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 500 feet per minute to 4,000 feet per minute and at temperatures of no greater than 140°F (60°C). The duct detector housings shall be of metal construction and complete mechanical installation may be performed without removal of detector cover.

Visual indication of alarm and power must be provided on the detector front. A manual reset switch shall be located on front of the device. The housing shall contain a detector base which will accept photoelectric detector heads. Detector head shall not require additional filters or screens which must be maintained.

Terminal connections shall be of the screw type and be a minimum of #6 screw (#12 to #22 AWG compatible). Terminals shall be provided for remote pilot, remote alarm indications, strobe/horn and remote test/reset switch. All wiring must comply with local codes and regulations.

Capability for interconnection of up to 30 units shall be provided for common functions.

TECH SUPPORT PAGE: Visit our Tech support page for guides & videos on how to wire our duct smoke detectors. apcfire.com/support

> Air Products & Controls | 30 Corporate Dr, Auburn Hills MI USA | www.apcfire.com DS-DU-2 E



CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION **BUILDING MATERIALS LISTING PROGRAM**

LISTING SERVICE

LISTING No.:	3240-1004:0108
CATEGORY:	3240 - DUCT SMOKE DETECTOR HOUSING/BASE
LISTEE:	Apollo America Inc. 30 Corporate Drive, Auburn Hills, MI, 48326 Contact: Howells, Dale (248) 563-8405 (248) 332-8807 Email: dale.howells@apollo-fire.com
DESIGN:	Models SM-501-N and SM-501-P duct smoke detector units. Units consist of an enclosure, relay, electrical components, listed open area detector and sampling and exhausted tubes. All units are four-wire duct detectors. Suffix -N indicates the unit employs an ionization smoke detector head. Suffix -P indicates the unit employs a photoelectric smoke detector head.
	Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING:	24 VAC, 24 VDC, 115 VAC or 230 VAC
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical rating and UL label.
APPROVAL:	Listed as duct detectors for use with separately listed compatible fire alarm control units when installed in HVAC systems with air velocity between 500 and 4000 ft./min.
NOTES:	Formerly Air Products and Controls, Inc.
	*Rev. 05-28-2004

This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Page 1 of 1

Date Issued: 04/13/2023

Authorized By: **Victor Wong**, Program Coordinator Fire Engineering & Investigations Division

Listing Expires: 06/30/2024

SAMPLING TUBES INSTALLATION Sampling tubes must be ordered separately and are required for proper installation



STS- Series STS- 5.0 5.0' Tube 3-5 ft. STS-10.0 10' Tube 5-10 ft.

7" exhaust tube, sampling tube end cap, mounting template, test

magnet, and mounting hardware included

MODEL NUMBER:	SL-501-P	Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC
DETECTOR HEAD MODEL NUMBER:	55000-328 <i>A</i>	APO
SAMPLING TUBES:	FAST Tube STS-1.0 STS-2.5 STS-5.0 STS-10.0	Sectional sampling tube, kit fits up to 90" duct width Sampling tube for 12" or less duct width Sampling tube for 6" to 2.5' duct width Sampling tube for 2.5' to 5.0' duct width Sampling tube for 5.0' to 10.0' duct width
POWER REQUIREMENTS: (without accessories) Standby:	230VAC 115VAC 24VAC 24VDC	12 mA 25 mA 35 mA 15 mA

Otanaby.	1100/10 2011/1	
	24VAC 35 mA	
	24VDC 15 mA	
Alarm:	230VAC 16 mA	
	115VAC 32 mA	
	24VAC 94 mA	
	24VDC 56 mA	
RELAY CONTACT RATING:		
Alarm Contacts:	Resistive load: 2 sets form "C" rated at 10 Amps @ 115VAC	
	Resistive load: 1 set form "A" rated at 2 Amps	
Trouble Contacts:	Resistive load: 1 set form "C" rated at 10 Amps @ 115VAC	
AIR VELOCITY:	500 to 4,000 ft./min.	
AMBIENT TEMPERATURE:	SM-501-P 32°F to 140°F (0°C to 60°C)	
HUMIDITY:	85 ±5 % RH (@32 ±2°C; 86 ±3.6°F) Non-Condensing / Non-Freezing	ı
WIRING:	Solid or stranded: #12 to #22 AWG terminals	
APPROVALS:	UL & CUL Listed (UL268A, UROX, UROX7) File # S2829	
	CSFM Listed (3240-1004:108)	
MATERIAL:	18ga. Grey steel backbox, clear plastic cover (Makrolon 94V-0)	
DIMENSIONS:	8 ¹ / ₈ " L x 7 ¹ / ₄ " W x 2 ¹ / ₄ " H	

3 ½ lbs.

ACCESSORI	ES
/ COLOCOIN	

MAX. NET WT.:

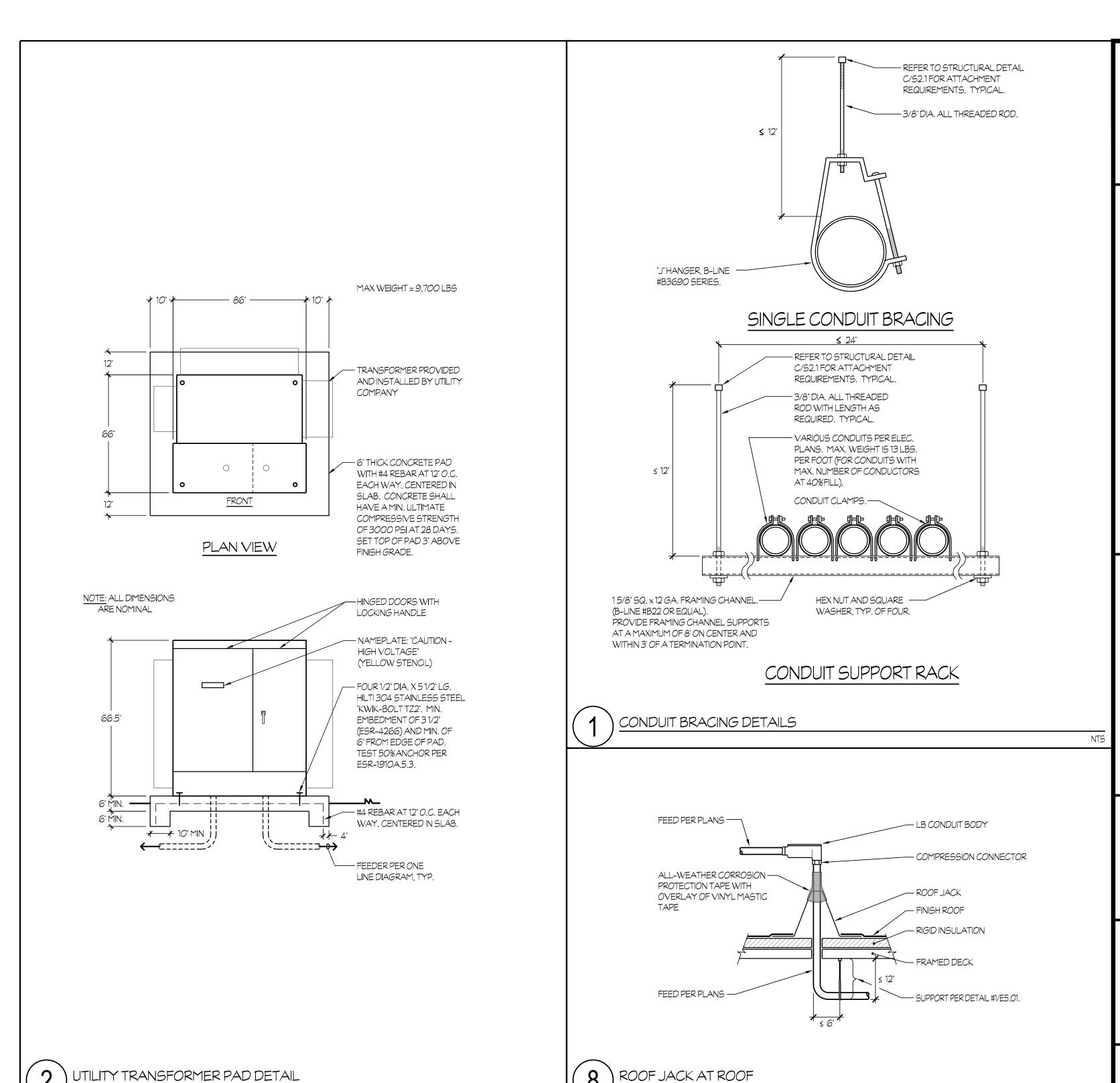
HARDWARE:

MSR-100 series	Remote Stations (test reset function)	TG-1000	Solo Smoke Gas
MSR-50 series	Remote Stations (test reset function)	TG-2500	Centurion Smoke Gas
MS- series	Remote Stations (push button & key reset)	T-PB series	s Power supplies, 24VAC from 115VAC @1.0A input
WP-1	Waterproof Enclosure		

FOR MORE PRODUCTS AND INSTALL GUIDES VISIT: apcfire.com/products



Air Products & Controls | 30 Corporate Dr, Auburn Hills MI USA | www.apcfire.com



NTS



IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗆

APP: 03-122490 INC:

DATE: 07/27/2023

BAKERSFIELD CITY SCHOOL DISTRICT

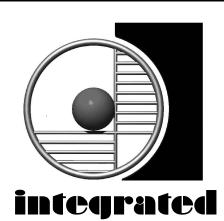
1300 BAKER STREET BAKERSFIELD, CA 93309

Project Name:

CENTRAL PLANT REPLACEMENT

WASHINGTON MIDDLE SCHOOL

1101 NOBLE AVENUE BAKERSFIELD, CA 93305



designs

by SOMAM, Inc. ARCHITECTURE **ENGINEERING**

INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

integrateddesigns.com

Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument o Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization. COPYRIGHT 2020

DETAILS

E5.01

Release: DSA BACKCHECK Issue Date: 06-13-2023

Rose Sing Eastham & Associates Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705