KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL LODI UNIFIED SCHOOL DISTRICT 4600 ACAMPO RD, ACAMPO, CA 95220

Kickplate Kitchen

K.P KIT.

ABBREVIATIONS

&

A.D.

A.V

BD.

BLK.

BOT.

B.S.

CAB

C.B.

CEM.

CER. C.G.

C.L. CLG.

CLR.

COL.

DBL. DET.

D.F.

DIA

DIM.

DN.

D.P.

DR.

D.S.

DWG.

Drawing

CB.

And Angle At Centerline Diameter or Round Perpendicular Pound or Number Asphalt Concret ACOUS. Acoustica Area Drain ADJ. AGGR. Adjustable Aggregate ALUM./AL Aluminum Architectura ARCH. ASPH. Asphalt AUTO. Automati Auto Visua Bolt Board BLDG. Building Block BLKG. Blocking Beam Bottom Both Sides Cabinet Catch Basin Chalkboard Cement Ceramic Corner Gauro Cast Iron Construction Joint/Control Joi Chain Link Ceiling CLKG. Calking Clear C.M.P. Corrugated Metal Pipe C.M.U. Concrete Masonry Unit CNTR. Counter Column CONC Concrete CONN. Connection CONSTR Construction CONT Continuous CORR. Corridor Pennyweight (Nails) Double Detail Drinking Fountain Drain Inlet Diameter Dimension DIM.PT Dimension Point Down Deep Damp Proofing Door Downspout

EA.

E.J.

ENCL

EQ.

EXT.

F.A.

F.B.

F.D.

FDN.

F.E.

FIN.

F.L.

F.S.

FTG.

FT.

GA

G.B.

GYP.

G.I.

GYP

H.B.

HGT.

HR.

I.D.

IN.

JAN. JST.

ĞL.

Fast (E)/EXST. Existina Each Expansion Join Elevation ELEC. Electrica EMER Emergency Enclosure Equal EQPT. E.W.C. EXP. Equipment Electric Water Cooler Expansion Fire Alarm Fiberboard Floor Drain Foundation Fire Extinguishe F.F.E. Finish Floor Elevation F.H.M.B Flat Head Machine Bol F.H.M.S. Flat Head Machine Screv Floor **Fusible Link** FLASH'G Flashing F.O.C. F.O.F. Face of Concrete/Curl Face of Finish F.O.S. Face of Stude F.R.P. Fiberglass Reinforced Plasti Full Size Foot/Feet Footing FURR. Furring FUT. Future Gauge Galvanized GALV Grab Bar Glass/Glazing GND. GR. Ground Grade Gypsum Galvanized Iron G.S.M. Galvanized Sheet Metal GYP.BD. Gypsum Board HDR. Header HDWD. Hardwood HDW. Hardware HOR. Horizontal Hose Bib Hour (Fire Rating) Height Inside Diamete Inch Information Insulation

INFO. INSUL INT. Interior Janitor Joist Joint

SECT. I AM L aminate SHR. LAV. Lavatory SHT. SHTG. LKR. Locker LT.WT. Light Weight SIM. L.V. Louver Ver S.M. S.M.S MAX Maximum S.N.D. M.B. MAT'L. Machine Bolt SNR Material SPEC MECH. Mechanica SQ. MEMB. Membrane S.R.V MEZZ. Mezzanine S.SK. MFR. Manufacture SST Manhole MH. ST. MIN. Minimum STD. MIR. Mirror STL. MISC. Miscellaneou MTD. STOR. Mounted MET. Metal STRL. SUSP. New SYM. North SHT.VNL. N.I.C. Not in Contract NO./# Number NOM. Nominal N.T.S. Not to Scale TB. T.B. Over T.&G. 0.A. Overall TFI OBS. Obscure THK 0.C. 0.D. On Center THRES. Outside Diameter THRU. OFF. Office T.O.C. PRCST. Precas PERF Perforated T.O.W. P.LAM. Plastic Laminate T.P.D. PLAS. Plaster TYP. PLYWD. Plywood P.M. Pressed Metal P.M.F. Pressed Metal Frame U.O.N. UR. PR. Pair PRE-FAB Prefabricated PROJ. P.T.D. V.C.T. Paper Towel Dispenser VERT. P.T.D./R. Paper Towel Dispenser Receptacle V.F. PTN. Partition Paper Towel Receptacle P.T.R. W. W/ RAD. Radius W.C. R.B. Rubber Base WD. R.D. Roof Drain W.H. R.E. REFR. Rim Flevatior W/O Refrigerator WSCT. RGTR. REINF. Reaister W.W.M. Reinforced WDW. REQ. Required WT. RET. Return RM. Room YD. R.O. Rough Opening RWD. Redwood R.W.L. Rain Water Leader R.H.W.S. Round Head Wood Screw

S.D.

MATER	IAL LEGEND			APPLICABLE CODE
				TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSH TITLE 24 CCR, PART 1 - 2016 BUILDING STANDARDS TITLE 24 CCR, PART 2 - 2016 CALIFORNIA BUILDING (based on 2015 IBC as amended by CA
	EARTH		WOOD TRIM	TITLE 24 CCR, PART 3 - 2016 CALIFORNIA ELECTRIC AS AMENDED BY CA) TITLE 24 CCR, PART 4 - 2016 CALIFORNIA MECHANI IAPMO UMC, AS AMENDED BY CA)
රීදු ද දී ද දී	GRAVEL/AGGREGATE BASE		STEEL	TITLE 24 CCR, PART 5 - 2016 CALIFORNIA PLUMBÍN UPC, AS AMENDED BY CA) TITLE 24 CCR, PART 6 - 2016 CALIFORNIA ENERGY TITLE 24 CCR, PART 9 - 2016 CALIFORNIA FIRE COD
	SAND OR PLASTER		TILE	AMENDED BY CA) TITLE 24 CCR, PART 11 - 2016 CALIFORNIA GREEN I TITLE 24 CCR, PART12 - CALIFORNIA REFERENCED (partial list - see CBC Ch. 35 and CFC Ch. 80)
4 4 4 4	CONCRETE	1993	BATT INSULATION	2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTI 2013 NFPA 14, INSTALLATION OF STANDPIPE AND F 2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYS 2013 NFPA 17A, WET CHEMICAL EXTINGUISHING SY
	BLOCKING		BRICK	2016 NFPA 20, INSTALLATION OF STATIONARY PUN 2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE P 2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SEF 2016 NFPA 72, NATIONAL FIRE ALARM CODE (CA AN
	FRAMING (CONTINUOUS)	········	GYPSUM BOARD	for "Visual Devices" 2016 NFPA 80, FIRE DOOR AND OTHER OPENING PI 2015 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHIN 2005 UL 300, CLASS I HOOD FIRE SUPPRESSION SY
<u>\kk</u>	PLYWOOD		FIRTEX	2003 UL 464, AUDIBLE SIGNAL APPLIANCES 1999 UL 521, HEAT DETECTORS FOR FIRE PROTEC 2012 ICC 300, BLEACHERS, FOLDING AND TELESCC GRANDSTANDS (ICC300-2012)

ABLE CODES

SAFETY, STATE FIRE MARSHAL REGULATIONS - 2016 BUILDING STANDARDS ADMINISTRATIVE CODE 2 - 2016 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) d on 2015 IBC as amended by CA) 3 - 2016 CALIFORNIA ELECTRICAL CODE (CEC) (2014 NEC, MENDED BY CA) - 2016 CALIFORNIA MECHANICAL CODE (CMC) (2015 D UMC, AS AMENDED BY CA) - 2016 CALIFORNIA PLUMBING CODE (CPC) (2015 IAPMO AS AMENDED BY CA) 3 - 2016 CALIFORNIA ENERGY CODE 9 - 2016 CALIFORNIA FIRE CODE (CFC) (2015 IFC, AS

	SHEET NUMBERING SYSTEM
	Discipli Drawin
	Sheet I
outh	
pap Dispenser	ROOM NAME and NUMBER REF
ection	
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neeting	A103
milar	<u>+ +</u>
neet Metal neet Metal Screw	Room I Buildin
anitary Napkin Dispenser	
anitary Napkin Receptacle	KEYNOTE REFERENCE
pecification	
quare	2200.A7.05
emi Rigid Vinyl	
ervice Sink ainless Steel	
reet	
andard	SHEET NOTE REFERENCE
eel	SN.01 —
torage	
ructural uspended	
ymmetrical	DETAIL REFERENCE
, neet Vinyl	X - Detail I
-	(
bilet	AX.X.X - Sheet
ackboard)
owel Bar	BUILDING SECTION REFERENCE
ongue & Groove	•
elephone nick	\mathbf{A}
nreshold	X Section Number
nrough	AX.X.X
op of Curb op of Pavement	\smile
op of Wall	
bilet Paper Dispenser	STOREFRONT, WINDOW OR LO REFERENCE
/pical	KEIEKENGE
	Windows Covering Ref
nless Otherwise Noted rinal	EA H=HORIZONTAL BI V=VERTICAL BLIN
	D=DARKENING DR
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ertical	
nyl Fabric	DOOR REFERENCE
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/ater Closet /ood	
ater Heater	C2
lithout	
ainscot	WALL TYPE REFERENCE
'elded Wire Mesh 'indow	
/eight	C2
ard	EXTERIOR FINISH REFERENCE
	A

	Discipline Designation
	 Drawing Type Designation Sheet Number
	Sheet Number
A2.6.A	 Building Designation
OOM NAME and NUMBER	<u> KEFEKENCE</u>
WOMEN	Room Name
A103	
+ +	
	· Room Number
	Building Unit
EYNOTE REFERENCE	
< <u>2200.A7.05</u>	
\mathbf{X}	
HEET NOTE REFERENC	<u>E</u>
SN.01 -	
ETAIL REFERENCE	
\frown	
(X)	· Detail Number
AXXX -	Object Nemalieur
AX.X.X	Sheet Number
UILDING SECTION REFE	RENCE
X Section	NumberX
AX.X.X / - Sheet N	Number ————————————————————————————————————
\smile	\bigcirc
TOREFRONT, WINDOW	OR LOUVER
EFERENCE	
∧	ering Reference
	NTAL BLINDS
X V=VERTIC	
D=DARKEN	NING DRAPES
OOR REFERENCE	

NOTES:

REGULATIONS.

TITLE 24, PART 1, SECTION 4.317(c):

SYMBOL LEGEND

EM Discipline Designation Drawing Type Designation Sheet Number	STRUCTURAL GRID INDICATOR (Center of Framing)
Building Designation	STRUCTURAL GRID INDICATOR (Face of Framing)
REFERENCE	3
Room Name	MATCH LINE
Room Number Building Unit	CENTERLINE
	PROPERTYLINE
	WORK POINT, CONTROL POINT OR DATUM
	
	WINDOW (PLAN VIEW)
	/ Window Covering Location
Detail Number	

Window Covering Location
<u>_</u>
REVISION Revision Number
RADIUS Radius Point Number
R=92'-4" (1)
Radius Dimension
(221A)L - Indicates all drawers and doors to have locks installed
METAL SHELVING REFERENCE
MS1
LABORATORY CASEWORK REFERENCE
99
MUSIC CASEWORK REFERENCE
(99)
ACOUSITICAL PANEL REFERENCE
(AP1)
SIGN REFERENCE

S2

11 - 2016 CALIFORNIA GREEN BUILDING STDS CODE

2 - CALIFORNIA REFERENCED STANDARDS LLATION OF SPRINKLER SYSTEMS (CA AMENDED) LLATION OF STANDPIPE AND HOSE SYSTEMS HEMICAL EXTINGUISHING SYSTEMS CHEMICAL EXTINGUISHING SYSTEMS

LLATION OF STATIONARY PUMPS FOR FIRE PROTECTION R TANKS FOR PRIVATE FIRE PROTECTION LLATION OF PRIVATE FIRE SERVICE MAINS NAL FIRE ALARM CODE (CA AMENDED); See UL Std 1971

OOR AND OTHER OPENING PROTECTIVE AN AGENT FIRE EXTINGUISHING SYSTEMS HOOD FIRE SUPPRESSION SYSTEMS

ETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS HERS, FOLDING AND TELESCOPIC SEATING, AND

5. AN LEA TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. 6. GRADING PLANS, DRAINAGE IMPROVEMENT, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

4. A DSA CERTIFIED INSPECTOR WITH CLASS 3 IS REQUIRED FOR THIS PROJECT (IR A-7)

TITLE 24, AND NO WORK SHALL COMMENCE UNTIL APPROVED BY DSA.

STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

CONTRACTOR SHALL KEEP A COPY OF TITLE 24, PARTS 1-5 ON THE SITE AT ALL TIMES.

OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR

TO AND APPROVED BY DSA BEFORE PROCEEDING WITH REPAIR WORK.'

"THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION.

NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT

OF REGULATIONS A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND

1. ALL NEW WORK SHALL CONFORM TO THE 2016 EDITION, TITLE 24, CALIFORNIA CODE OF

2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE

APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN APPROVED SHALL BE

AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE

DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATIONS IA A-6. CONSTRUCTION

3. A DSA "CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED

WORK. ALL CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO

CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1,

BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE

WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-343, CALIFORNIA BUILDING

MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, CAC,

DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE

SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED

REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE

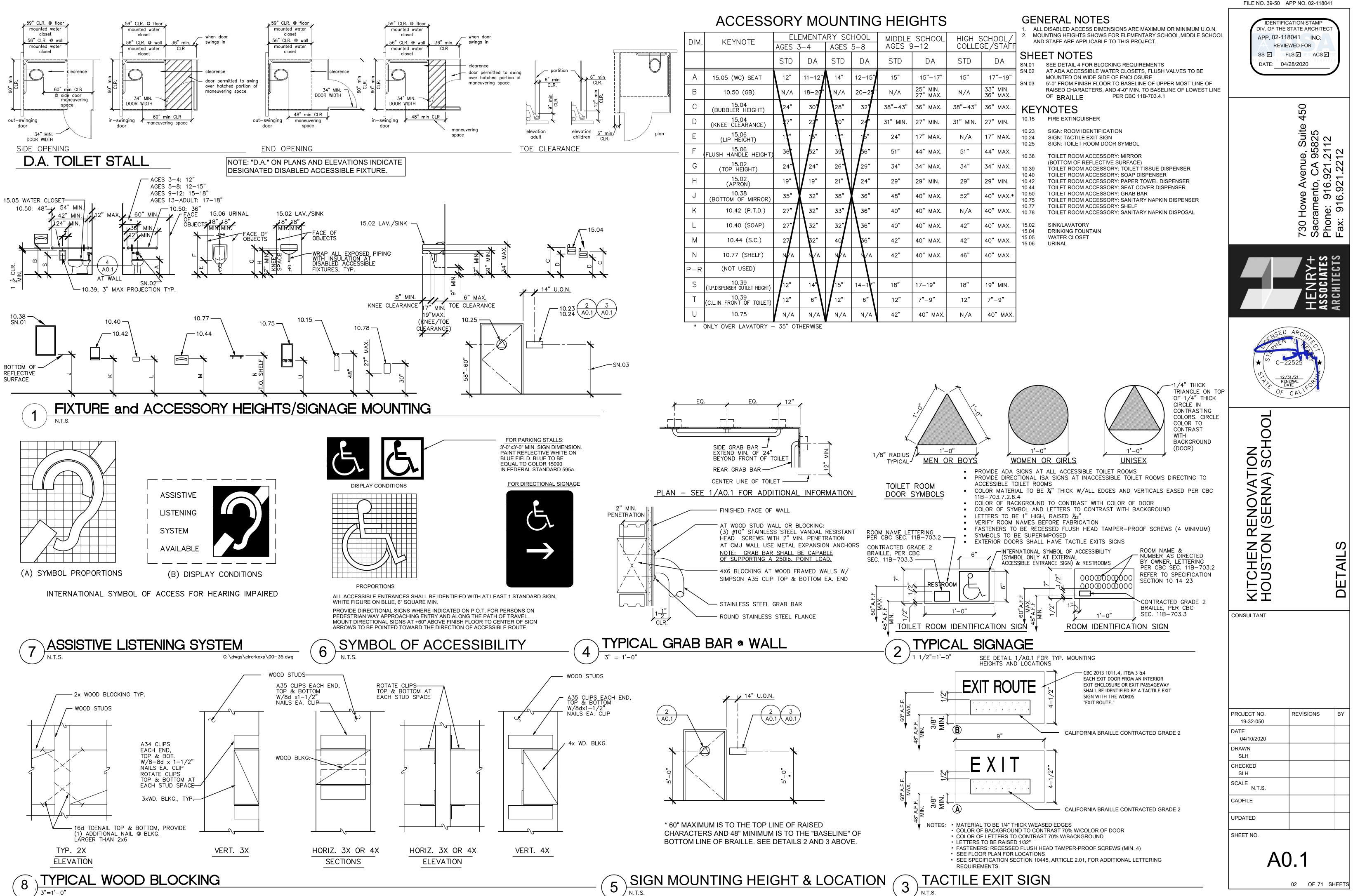
7. ADDENDA SHALL BE APPROVED BY DSA. 8. PROJECT DEMOLITION AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33.

ARCHITE	
CS	COVER SHEET
A0.1 A1.1	DETAILS VICINITY MAP, BUILDING DATA, SIT
A1.1 A2.1	FLOOR PLAN, DEMOLITION FLOOR
A2.1 A2.2	ENLARGED FLOOR PLAN, REFLECT
A2.3	ROOF PLAN, ROOF WELL PLAN
A3.1	FINISH SCHEDULE, DOOR SCHEDU
A4.1	EXTERIOR ELEVATION, BUILDING S
A5.1	INTERIOR ELEVATIONS
A8.1	DETAILS
A8.2	DETAILS
	ARCHIVE DRAWING - EXISTING ME
A8.3	INTERIOR DETAILS
A8.4	INTERIOR DETAILS
A8.5 A8.6	INTERIOR DETAILS INTERIOR DETAILS
A8.0 A8.7	INTERIOR DETAILS
A8.8	INTERIOR DETAILS
710.0	
STRUCT	JRAL
S0.1	GENERAL NOTES
S0.2	TYPICAL WOOD FRAMING DETAILS
S0.3	TYPICAL FOUNDATION & RENOVAT
S2.1	PARTIAL FOUNDATION PLAN
S2.2	PARTIAL ROOF FRAMING PLAN
S4.1	DETAILS
MECHAN	
M0.1	MECHANICAL LEGENDS, SCHEDULES
M0.2 M1.1	MECHANICAL SCHEDULES MECHANICAL DEMOLITION SITE PLAN
M1.1 M1.2	MECHANICAL DEMOLITION SITE PLAT
M2.1	MECHANICAL DEMO FLOOR PLAN
M2.2	MECHANICAL ENLARGED FLOOR PLAN
M2.3	MECHANICAL ENLARGED PLOOR PLAT
M5.1	MECHANICAL DETAILS
M5.2	MECHANICAL DETAILS
M5.3	MECHANICAL DETAILS
M6.1	MECHANICAL CONTROLS
M7.1	T-24 DOCUMENTATION
M7.2	T-24 DOCUMENTATION
P0.1	PLUMBING LEGEND, SCHEDULE & NC
P0.2	PLUMBING EQUIPMENT SCHEDULES
P0.3	PLUMBING FIXTURE SCHEDULE
P1.1	PLUMBING SITE PLAN
P1.2 P2.1	PLUMBING SITE PLAN PLUMBING FLOOR PLAN & DEMO FLO
P2.1 P2.2	
P2.2 P5.1	
P5.2	PLUMBING DETAILS
1 312	
ELECTRI	CAL
E0.1	SYMBOLS, NOTES, ABBREVIATION
E1.1	SITE PLAN ELECTRICAL
E2.0	ELECTRICAL DEMOLITION
E2.1	FLOOR PLANS - LIGHTING AND PO
E2.2	FLOOR PLANS - SIGNAL AND FIRE
E2.3	PARTIAL FLOOR PLAN - KITCHEN E
E3.0	PANEL SCHEDULES, ONE LINE DIA
E4.0	FIRE ALARM DETAILS, DIAGRAMS,
E5.0	ELECTRICAL DETAILS
FOOD SE	RVICE
FS1.1	FOODSERVICE EQUIPMENT FLOOF
FS2.1	FOODSERVICE EQUIPMENT PLUME
FS3.1	FOODSERVICE EQUIPMENT ELECT
FS4.1	FOODSERVICE EQUIPMENT MECHA
FS4.2	FOODSERVICE EQUIPMENT MECHA
FS5.1	FOODSERVICE EXHAUST HOOD PL
FS5.2	FOODSERVICE EXHAUST HOOD PL
FS5.3	FOODSERVICE EXHAUST HOOD FIL
FS6.1	FOODSERVICE EQUIPMENT WALK-
FS6.2	FOODSERVICE EQUIPMENT WALK-
FS7.1	FOODSERVICE EQUIPMENT REMO
FS7.2	FOODSERVICE EQUIPMENT REMO
FS8.1	FOODSERVICE EQUIPMENT DETAIL
FS8.2	FOODSERVICE EQUIPMENT DETAIL
FS8.3	FOODSERVICE EQUIPMENT DETAIL
FS9.1	FOODSERVICE EQUIPMENT ELEVA
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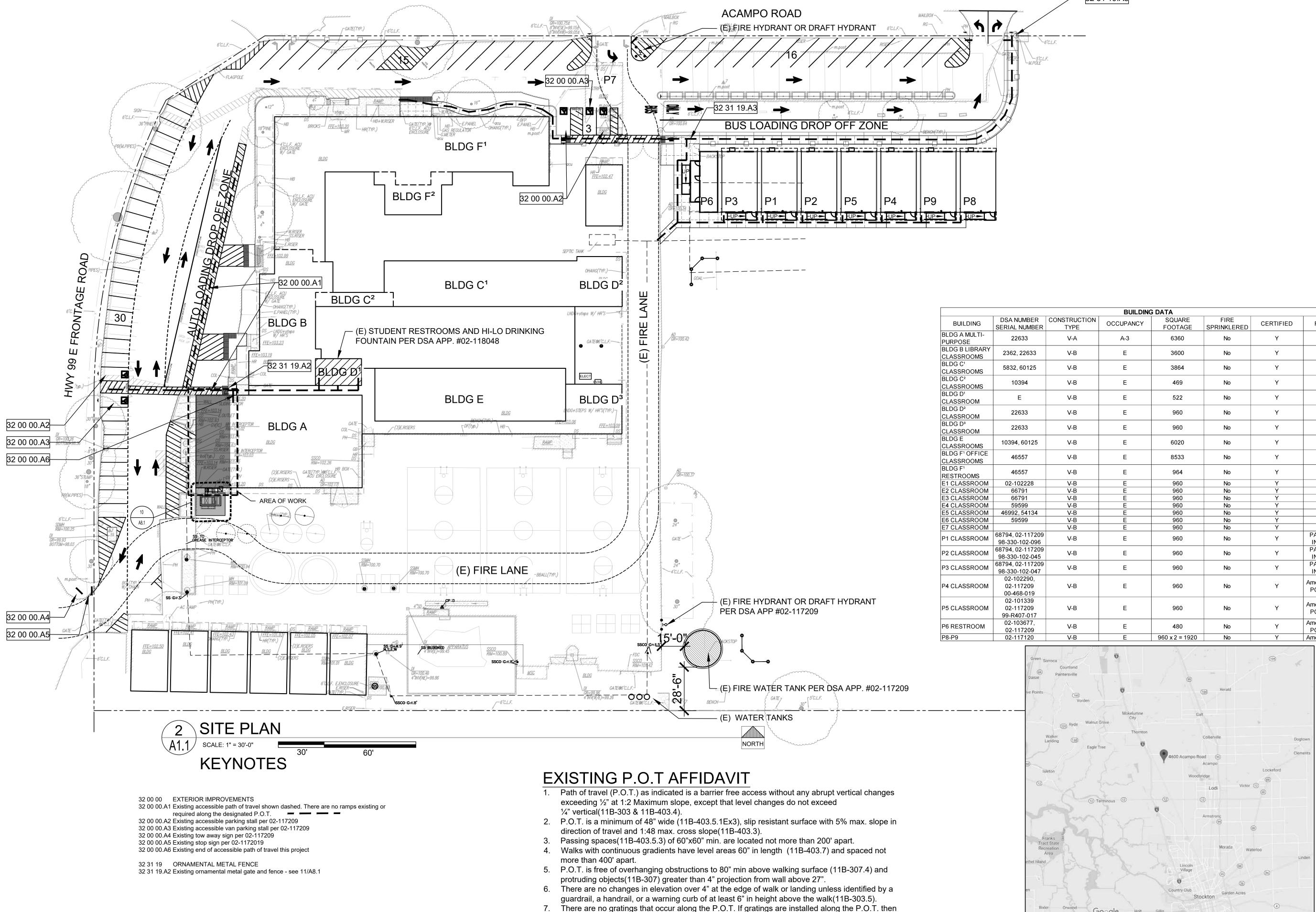
FILE NO. 39-50 APP NO. 02-118041 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP. 02-118041 INC: **REVIEWED FOR** SS 🗹 DI FLS 🗹 HESTACS 🗹 SITE PLAN DATE: 04/28/2020 R PLAN CTED CEILING PLAN ULE SECTION 50 4 ECHANICAL WELL SCREEN Suite 5825 12 $\overline{\Theta} \circ \overline{\Theta} \sim$ 6 9 0 1 0 1 . 0 0 **ATION DETAILS** acrame hone: 916 30 **м** Ω Ц Ц AND NOTES I PLANS NOTES LOOR PLAN NS, SCHEDULES ION SCHOOI **WER** ALARM EQUIPMENT POWER AGRAMS . MATRIX OVA RNA OR PLAN MBING PLAN REN(SE TRICAL PLAN Ш HANICAL PLAN Ш HANICAL SCHEDULE IEN RI TON (Т PLAN PLAN S FIRE SYSTEM K-IN REFRIG. DETAILS Ľ K-IN REFRIG. DETAILS Ξ'n ш OTE REFRIGERATION ΩĎ OTE REFRIGERATION AILS O ΕO AILS ()ΣĬ AILS /ATIONS CONSULTANT ELECTRICAL MECHANICAL CAPITAL ENGINEERING CONSULTANTS INC M. NEILS ENGINEERING, INC. 100 HOWE AVENUE, SUITE 235N 11020 SUN CENTER DRIVE, SUITE 100 RANCHO CORDOVA, CA 95670 SACRAMENTO, CA 95825 CONTACT: MICHAEL MINGE CONTACT: SINISHA GLISIC REVISIONS PROJECT NO. PHONE: (916) 923-4400 PHONE: (916) 851-3500 19-32-050 jpatty@lodiusd.net EMAIL: SGlisic@mneilsengineering.com EMAIL: mminge@capital-engineering.com DATE 04/10/2020 STRUCTURAL FOOD SERVICE DRAWN BARRISH PELHAM, a DEGENKOLB Company AMD FOOD SERVICE DESIGN SLH 428 J STREET, SUITE 500 P.O. BOX 163 CHECKED GARDEN VALLEY, CA 95633 SACRAMENTO, CA 95814 SLH CONTACT: GREG RICHARDS CONTACT: ART DAVIS SCALE PHONE: (530) 333-4606 PHONE: (916) 418-9100 N.T.S. stephen@henry-architects.com EMAIL: art@amdfoodservicedesign.com EMAIL: GRichards@degenkolb.com CADFILE UPDATED SHEET NO. CS Modernization and renovate existing kitchen 01 OF 71 SHEETS

OWNER

SHEET INDEX DRAWING SET CONTAINS 71 SHEETS **PROJECT TEAM** LODI UNIFIED SCHOOL DISTRICT 1305 E. VINE STREET LODI, CA 95240 CONTACT: JOE PATTY PHONE: (209) 712-6363 EMAIL: ARCHITECTURAL **HENRY + ASSOCIATES ARCHITECTS** 730 HOWE AVE, SUITE 450 SACRAMENTO, CA 95825 CONTACT: STEPHEN HENRY PHONE: (916) 921-2112 EMAIL: PROJECT DESCRIPTION BUILDING A modernization staff restroom



N.T.S.



- they require to have $\frac{1}{2}$ " max. grid openings in the direction of the P.O.T. (11B-302.3). 8. All gates along the P.O.T. comply with 11B-404 and shall have 24" min. strike side clearance
- on the pull side, 10" tall smooth surface at the gate bottom and be equipped with lever hardware.

-32 31 19.A3

	SS 🗹 🛛 F	8041 INC: WED FOR LS ☑ ACS ☑ 28/2020	
		730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 916.921.2212
		HENRY+ Associates	AKCHIIECIS
R		ARCHINE 2525	
ER ES ER ES ER ES dular 337 dular 337 dular '41 dular	KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	VICINITY MAP BUILDING DATA	SHE PLAN
	CONSULTANT		
	PROJECT NO. 19-32-050	REVISIONS	BY
	DATE 04/10/2020 DRAWN		
	SLH CHECKED SLH		
	SCALE		
	CADFILE		
	UPDATED SHEET NO.		
	A1	.1	

03 OF 71 SHEETS

FILE NO. 39-50 APP NO. 02-118041

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 02-118041 INC:

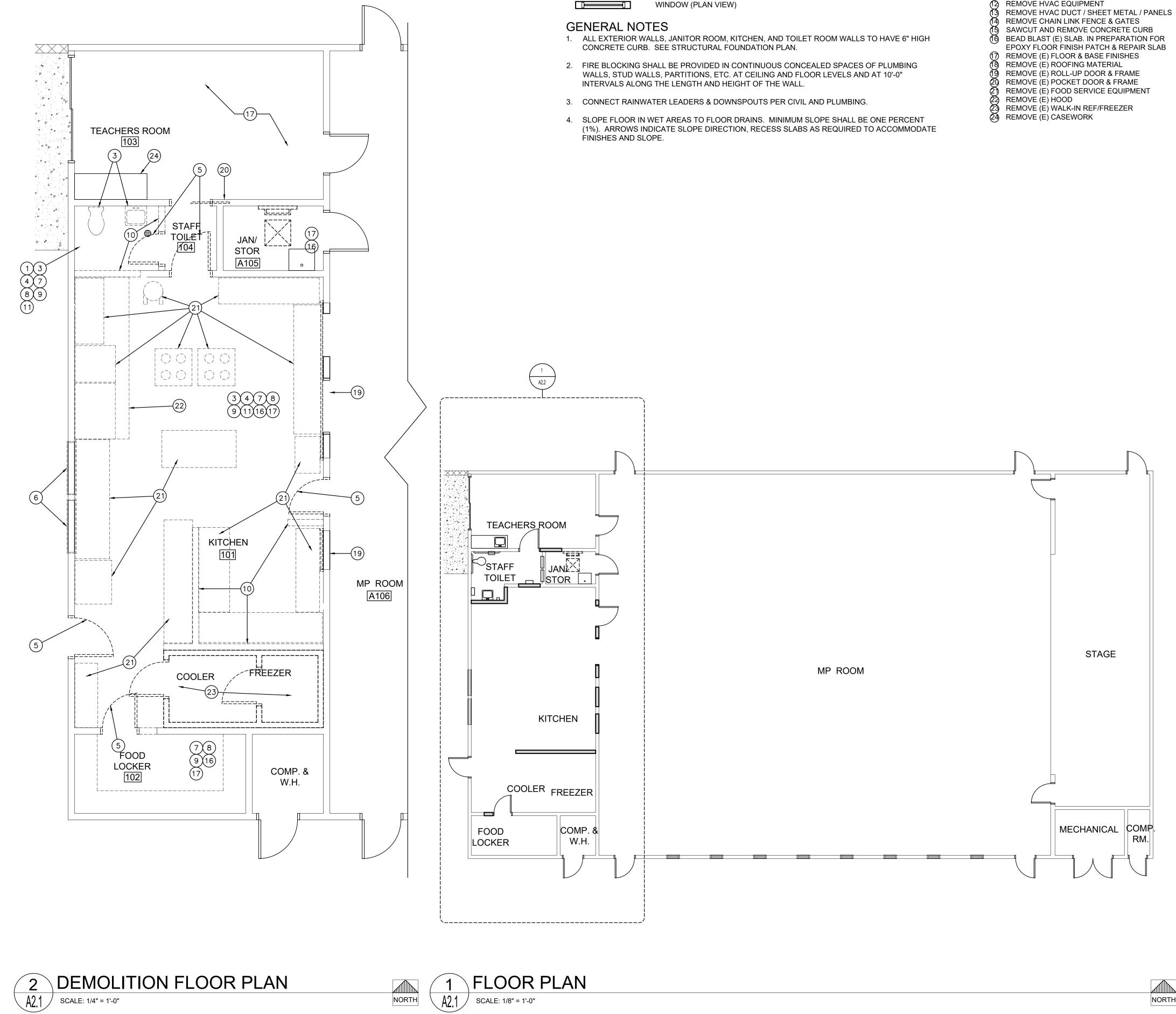
R ER	CONSTRUCTION TYPE	OCCUPANCY	SQUARE FOOTAGE	FIRE SPRINKLERED	CERTIFIED	RELO MFR
	V-A	A-3	6360	No	Y	
3	V-B	E	3600	No	Y	
5	V-B	E	3864	No	Y	
	V-B	E	469	No	Y	
	V-B	E	522	No	Y	
	V-B	E	960	No	Y	
	V-B	E	960	No	Y	
5	V-B	E	6020	No	Y	
	V-B	E	8533	No	Y	
	V-B	E	964	No	Y	
	V-B	E	960	No	Y	
	V-B	E	960	No	Ŷ	
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	V-B	E	960	No	Ŷ	
4	V-B	E	960	No	Ŷ	
-	V-B	E	960	No	Ŷ	
	V-B	E	960	No	Ŷ	
209 96	V-B	E	960	No	Y	PACESETTER INDUSTRIES
209 45	V-B	E	960	No	Y	PACESETTER
209 47	V-B	E	960	No	Y	PACESETTER INDUSTRIES
	V-B	E	960	No	Y	American Modular PC 02-101837
7	V-B	E	960	No	Y	American Modular PC 02-101837
	V-B	E	480	No	Y	American Modular PC 02-101741
	V-B	E	960 x 2 = 1920	No	Y	American Modular

HOUSTON MIDDLE SCHOOL 4600 ACAMPO ROAD, ACAMPO, CA 95220

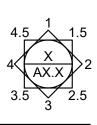


1

NORTH



LEGEND



SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD STUDS @ 16" O.C. INTERIOR HATCH INDICATES FULL DEPTH AND FULL HEIGHT INSULATION AT INTERIOR WALLS AND THERMAL BATT INSULATION AT EXTERIOR WALLS

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ROOM ELEVATIONS

WINDOW (PLAN VIEW)

DEMOLITION NOTES

- (NOT ALL DEMOLITION NOTES ARE USED ON SHEET) (1) REMOVE RESTROOM ACCESSORIES
- REMOVE TOILET PARTITIONS REMOVE PLUMBING FIXTURES
- REMOVE ELECTRICAL
- **REMOVE DOOR & FRAME**
- **REMOVE WINDOW** REMOVE WALL FINISHES TO STUDS
- REMOVE CEILING FINISHES TO JOISTS
- REMOVE INSULATION REMOVE WALLS INCLUDING CONCRETE CURB
- SAWCUT AND REMOVE CONCRETE SLAB
- (12) REMOVE HVAC EQUIPMENT

A2.1

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

				FILE NO. 39-50 A	11 110.02-110041
	EXAMPLE AND	2100.A5	 .03 room identification sign per dtl. 2/A0.1 .04 restroom identification sign per dtl. 2/A0.1 .05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit .07 assistive listening system per detail 7/A0.1 .08 Monument sign .09 Building sign .10 Dedication plague toilet partition 	DIV. OF THE S APP. 02-118 REVIE	NED FOR
0400 0400.A1	MASONRY concrete masonry wall	2100.A6 2100.A7	urinal partition toilet accessories: .01 paper towel dispenser		
0500 0500.A2 0500.A3 0500.A4 0500.A5 0500.A6 0500.A7 0500.B1 0500.B2 0600 0600.A1 0600.A2 0600.A3 0600.A3 0600.A3 0600.A4 0600.A5 0600.A5 0600.A5 0600.A5 0600.A3 0600.A5 0600.A5	METALS corrugated structural metal roof deck metal pipe bollard concrete fill metal pipe bollard removable metal pipe hand rail - 1.5" diameter metal roof access ladder with security door metal louver rolled channel (structural support grid) metal furring channel WOOD, PLASTICS AND COMPOSITES wood framing - see structural frame opening for new door, window, or HVAC in-fill frame door/window/duct opening in-fill frame roof opening where equipment was removed wood post wood joist wood trusses 2 x 4 furred wall blocking exterior wood wall sheathing exterior wood roof sheathing	2100.A8 2100.B1 2100.B2 2100.B3 2100.B4 2110 2110.A1 2110.A2 2110.A3	 101 paper tower dispenser 102 toilet paper dispenser 103 sanitary napkin dispenser 104 soap dispenser 105 mirror 109 trash receptacle 10 grab bar 11 toilet seat cover, toilet tissue dispenser 12 toilet seat cover, sanitary napkin disposal, & toilet tissue dispenser 13 sanitary napkin disposal 14 paper towel dispenser/ waste recepticle folding panel partition fire extinguisher .01 Provide UL Rated Class K 2A:K per spec. .02 Provide UL Rated Class K 10B:C per spec. metal shelving metal lockers knox box EQUIPMENT projection screen refrigerator microwave (owner furnished, contractor 		730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
0600.B3	wood framed and sheathed cricket - use fire retardant treated wood	2110.A4	installed) Type I kitchen Exhaust hood - w/ Fire System		
0600.C1 0600.C2	wood trim wood hand rail	2100.A5 2100.A6	Remote Pull Station - see FS Sheets Hand Sink - See Detail E/FS8.2 Food Service Equipment shown w/ light line -		χ^+_{+}
0700 0700.A1	THERMAL AND MOISTURE PROTECTION	2100.710	sheet FS Sheets.		
0700.B1	.01R-13 batt/blanket (3.5" thick).02R-21 batt/blanket (6.5" thick).03R-30 batt/blanket (10" thick).04R-38 batt/blanket (12" thick).05board insulation (2" thick).06board insulation tapered cricketStanding seam roofing system	2120 2120.A1 2120.A2	FURNISHINGS window coverings & track plastic laminate casework .01 ada accessible sink base cabinet .02 plastic laminate countertop with 4" backsplash		HEN ASSOI ARCHI
0700.B2.	single ply membrane roofing system .01 extend roofing up and over parapet wall	2120.A3 2200	casework PLUMBING	CENSED	ARCHITA
0700.B3	.02 walk pad .03 Parapet Wall Flashing built up roofing	2200.A1	plumbing equipment .01 sink	2 PHEN	ETC2
0700.B4 0700.B5 0700.C1	 modified bitumen roofing composition shingle roofing galvanized sheet metal .01 two piece Fry Springlok flashing system .02 parapet cap flashing .02 valley flashing .03 splash pan .05 scupper .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit 	2300 2300.A1	 .02 lavatory .03 toilet .04 urinal .05 drinking fountain .06 mop sink .07 water heater .08 Roof drain/Overflow Combo Unit .09 Floor drain - slope floor to drain 2% max. slope HVAC mechanical equipment - see mechanical 		CALIF
0700.C2	 .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent 	2300.A2 2300.A3 2300.A4 2300.A5	drawings ceiling register mechanical duct Condensate Line kitchen exhaust fan	CHO	PLAN
0700.D1	.04 duct penetration sealant	2500.A5 2600	ELECTRICAL	0(0(AC N
	.01 remove (e) sealant from (e) doors and (e windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical)2600.A1 2600.A2	electrical equipment light fixture SITEWORK gas meter assembly water meter box	OVAT RNA)	FLOO
0800 0800.A1	OPENINGS door and frame	3200.A2 3200.A3 3200.A4	backflow assembly fire hydrant	N N N N N	
0800.A3 0800.A4	door frame roll up door	3200.A5 3200.A6	trench drain area drain		PLAN
0800.A5 0800.A6	window storefront window system	3200.A7 3200.B1	drain inlet decomposed granite	μŢ	
0800.A7 0800.A8	access door extruded alum. corner	3200.B1 3200.B2 3200.B3	aggregate base rock concrete paving		
0800.A9	Roof hatch	3200.B3 3200.B4 3200.B5	asphalt paving concrete curb	STR	MOL
0900 0900.A1 0900.A2 0900.A3 0900.A4	FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base base	3200.B6 3200.B7 3200.C1	concrete mow strip trash enclosure line paint striping	KITC HOU	FLOOR
0900.A5 0900.B1	ceramic tile gypsum board	3200.C2 3200.C3	fire lane striping game line striping		
0900.B1 0900.B2 0900.B3	wainscot vinyl wall covering	3200.D1	ada accessible car parking stall	CONSULTANT	
0900.B3 0900.B4 0900.B5	vinyl wall covering vinyl wall covering wrapped tackboard panels fiberglass reinforced plastic panels (FRP)	3200.D2 3200.D3	ada accessible van parking stall ada accessible ramp per civil		
0900.B6	SS wall panels per food service	3200.D4 3200.D5	truncated domes ada accessible path of travel		
0900.C1 0900.C2 0900.D1	suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed	3200.D6 3200.D7 3200.D8 3200.E1	 ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate 		
0900.D2 0900.D3	exterior panel wall system Metal Siding/Soffits	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate		
2100 2100.A1	SPECIALTIES display case	3200.E3	.02 pair 6'-0" wide swing gate ornamental metal fence		
2100.A2 2100.A3	marker board TV/monitor bracket	3200.E3 3200.F1 3200.F2	reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch &	PROJECT NO.	REVISIONS BY
2100.A4	signs: .01 parking lot entrance sign "towaway" per	3200.F2	repair remove (e) trees	19-32-050	
	Civil .02 ADA accessible parking stall sign per Civ		remove (e) ada parking symbol	DATE 04/10/2020	
		5200.1 4		DRAWN SLH	

04 OF 71 SHEETS

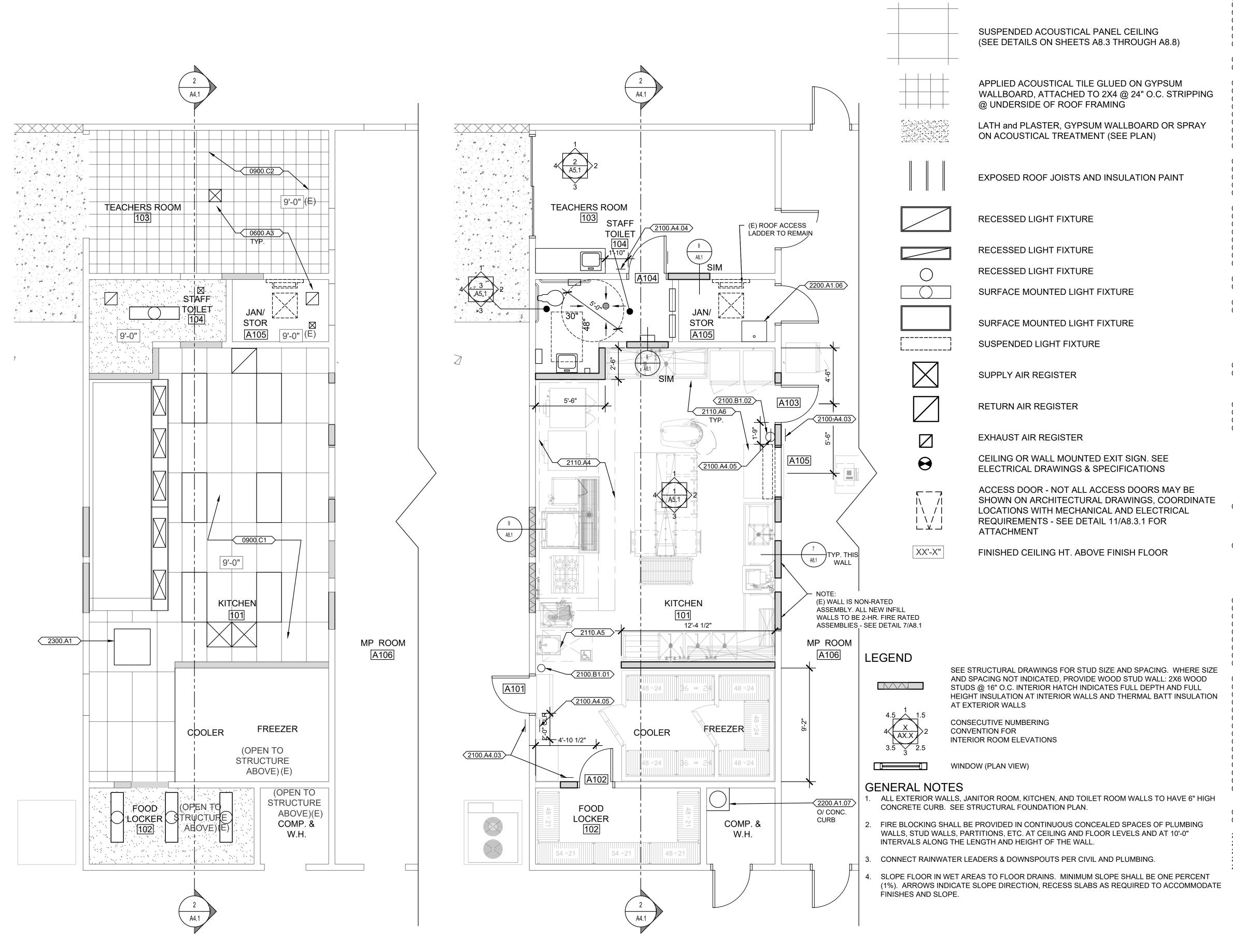
A2.1

CHECKED SLH SCALE

CADFILE

UPDATED

SHEET NO.



(SEE SHEET A0.1 FOR DISABLED ACCESSIBLE FIXTURES AND ACCESSORIES MOUNTING HEIGHTS, LOCATIONS AND REQUIREMENTS)



NORTH



REFLECTED CEILING PLAN LEGEND

NORTH

				FILE NO. 39-50 A	
(NOT ALL K 0300 0300.A1 0300.A2 0300.A4	NOTES EYNOTES ARE USED ON SHEET) CONCRETE concrete slab on grade - replace where remove concrete footing expansion joint	d	 .03 room identification sign per dtl. 2/A0.1 .04 restroom identification sign per dtl. 2/A0.1 .05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit .07 assistive listening system per detail 7/A0.1 .08 Monument sign .09 Building sign 	DIV. OF THE S APP. 02-118 REVIE	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS
0300.A5 0300.A6	splash block Concrete curb	2100 45	.10 Dedication plague	DATE: 04/	28/2020
0400 0400.A1	MASONRY concrete masonry wall	2100.A5 2100.A6 2100.A7	toilet partition urinal partition toilet accessories: .01 paper towel dispenser		
0500 0500.A2 0500.A3 0500.A4 0500.A5 0500.A6 0500.A7 0500.B1 0500.B2	METALS corrugated structural metal roof deck metal pipe bollard concrete fill metal pipe bollard removable metal pipe hand rail - 1.5" diameter metal roof access ladder with security door metal louver rolled channel (structural support grid) metal furring channel		 .02 toilet paper dispenser .03 sanitary napkin dispenser .04 soap dispenser .05 mirror .09 trash receptacle .10 grab bar .11 toilet seat cover, toilet tissue dispenser .12 toilet seat cover, sanitary napkin disposal, & toilet tissue dispenser .13 sanitary napkin disposal 		e, Suite 450 95825 2112 12
0600 0600.A1 0600.A2 0600.A3 0600.A4	WOOD, PLASTICS AND COMPOSITES wood framing - see structural frame opening for new door, window, or HVAC in-fill frame door/window/duct opening in-fill frame roof opening where equipment was removed	2100.A8 2100.B1	 .14 paper towel dispenser/ waste recepticle folding panel partition fire extinguisher .01 Provide UL Rated Class K 2A:K per spec. .02 Provide UL Rated Class K 10B:C per spec. 		/enu CA 921
0600.A5 0600.A6 0600.A7 0600.A8	wood post wood joist wood trusses 2 x 4 furred wall	2100.B2 2100.B3 2100.B4	metal shelving metal lockers knox box		Hov ame: 91
0600.A9	blocking	2110 2110.A1	EQUIPMENT projection screen		30 acr ax:
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A2 2110.A3	refrigerator microwave (owner furnished, contractor		К°́З́А́Ќ
0600.B3	wood framed and sheathed cricket - use fire retardant treated wood	2110.A4	installed) Type I kitchen Exhaust hood - w/ Fire System		
0600.C1 0600.C2	wood trim wood hand rail	2110.A4 2100.A5	Remote Pull Station - see FS Sheets Hand Sink - See Detail E/FS8.2		
0700	THERMAL AND MOISTURE PROTECTION	2100.A5 2100.A6	Food Service Equipment shown w/ light line -		ATE
0700.A1	 insulation .01 R-13 batt/blanket (3.5" thick) .02 R-21 batt/blanket (6.5" thick) .03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick) .06 board insulation tapered cricket 	2120 2120.A1 2120.A2	sheet FS Sheets. FURNISHINGS window coverings & track plastic laminate casework .01 ada accessible sink base cabinet .02 plastic laminate countertop with 4"		HENF Associ Architi
0700.B1 0700.B2.	Standing seam roofing systemsingle ply membrane roofing system.01extend roofing up and over parapet wall.02walk pad	2120.A3 2200 2200.A1	backsplash casework PLUMBING plumbing equipment	CENSED WEN	ARCHIE
0700.B3	.03 Parapet Wall Flashing built up roofing		.01 sink .02 lavatory		
0700.B4 0700.B5	modified bitumen roofing composition shingle roofing		.03 toilet .04 urinal	(★ ([∽] C−2	2525
0700.C1	 galvanized sheet metal .01 two piece Fry Springlok flashing system .02 parapet cap flashing .02 valley flashing .03 splash pan .05 scupper .06 gutter 		 .05 drinking fountain .06 mop sink .07 water heater .08 Roof drain/Overflow Combo Unit .09 Floor drain - slope floor to drain 2% max. slope 	OT TRANSPORT	S1/21 EWAL CALLE
	.07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard	2300 2300.A1	HVAC mechanical equipment - see mechanical		Z
0700.C2	vent .01 roof vent - typ. of 4	2300.A2 2300.A3	drawings ceiling register mechanical duct	P	PLAN IG PLAN
	.02 pipe vent .03 hot vent	2300.A4 2300.A5	Condensate Line kitchen exhaust fan	ΖĊ	
0700.D1	.04 duct penetration sealant	2600	ELECTRICAL	<u>0</u> S	ር 🖸 🗌
	.01 remove (e) sealant from (e) doors and (e windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical)2600.A1 2600.A2	electrical equipment light fixture SITEWORK gas meter assembly	DVAT RNA)	OOR
0800	OPENINGS	3200.A2 3200.A3	water meter box backflow assembly		
0800.A1 0800.A3	door and frame door frame	3200.A3 3200.A4 3200.A5	fire hydrant trench drain	E S	
0800.A3 0800.A4 0800.A5	roll up door window	3200.A6	area drain	N))	
0800.A5 0800.A6 0800.A7	storefront window system access door	3200.A7 3200.B1	drain inlet decomposed granite	Z	ШЩ UU
0800.A8	extruded alum. corner	3200.B2 3200.B3	aggregate base rock concrete paving	ШЦ	ЖШ
0800.A9	Roof hatch	3200.B4 3200.B5	asphalt paving concrete curb	<u>Н</u>	
0900 0900.A1 0900.A2 0900.A3	FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base	3200.B6 3200.B7	concrete mow strip trash enclosure	IOU	
0900.A4 0900.A5	base ceramic tile	3200.C1 3200.C2	line paint striping fire lane striping	XI	
0900.B1 0900.B2	gypsum board wainscot	3200.C3	game line striping	CONSULTANT	
0900.B3	vinyl wall covering	3200.D1 3200.D2	ada accessible car parking stall ada accessible van parking stall		
0900.B4 0900.B5	vinyl wall covering wrapped tackboard panels fiberglass reinforced plastic panels (FRP)	3200.D3 3200.D4	ada accessible ramp per civil truncated domes		
0900.B6 0900.C1	SS wall panels per food service suspended acoustical ceiling system	3200.D5 3200.D6	ada accessible path of travel ada accessible restrooms (men's and women's)		
0900.C2 0900.D1	glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed	3200.D7 3200.D8 3200.E1	ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence		
0900.D2 0900.D3	.02 4" soffit vent screed exterior panel wall system Metal Siding/Soffits	3200.E2	.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate chain link fence with vinyl slats		
2100 2100.A1	SPECIALTIES		.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate		
2100.A2	display case marker board TV/monitor brocket	3200.E3 3200.F1	ornamental metal fence reconfigure (e) irrigation and sprinklers	PROJECT NO.	REVISIONS BY
2100.A3 2100.A4	TV/monitor bracket signs:	3200.F2	sod turf landscaping planting area - patch & repair	19-32-050	
	 .01 parking lot entrance sign "towaway" per Civil .02 ADA accessible parking stall sign per Civil 	3200.F3 /il3200.F4	remove (e) trees remove (e) ada parking symbol	DATE 04/10/2020 DRAWN	
				SLH	

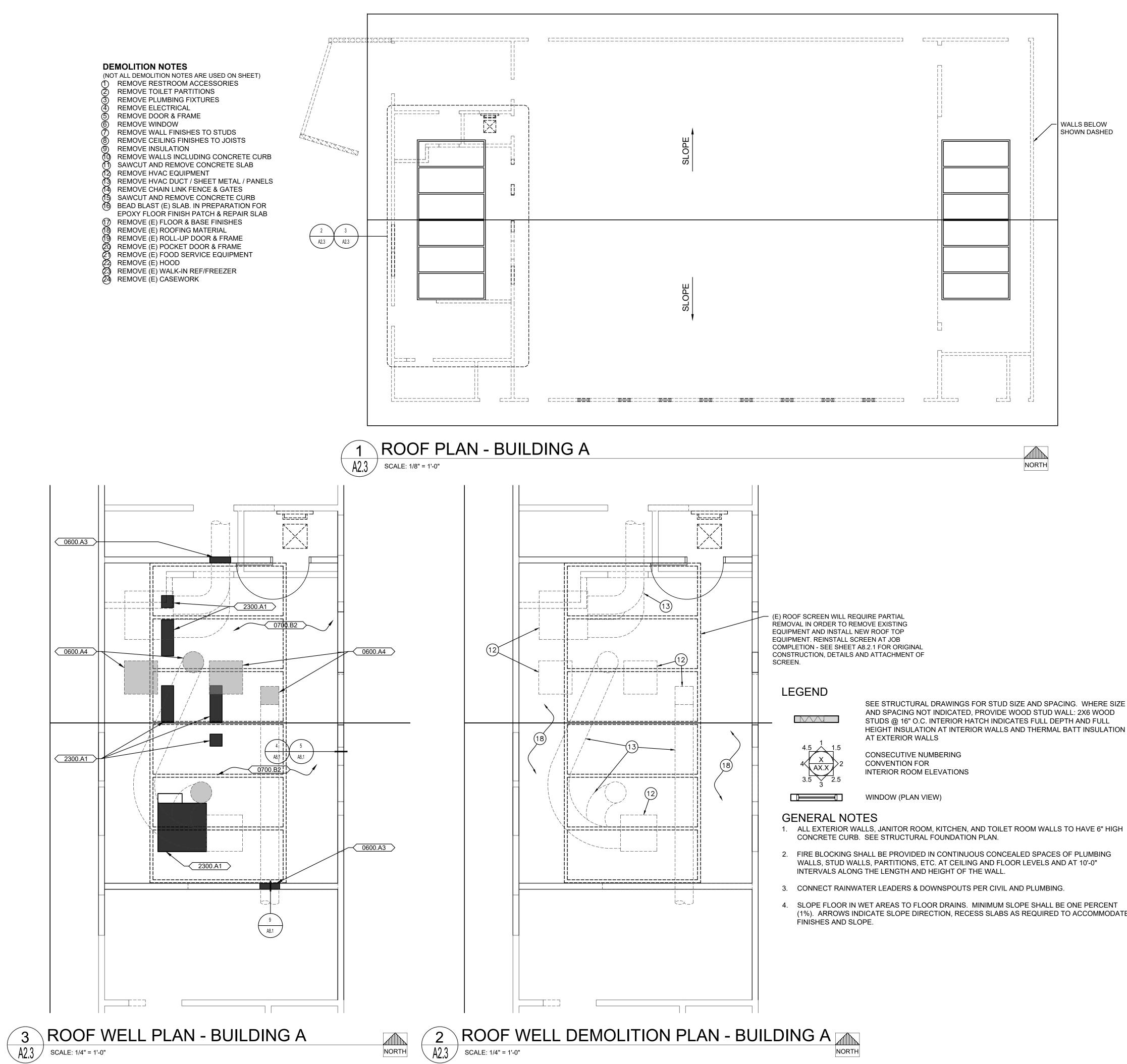
A2.2

CHECKED SLH SCALE

CADFILE

UPDATED

SHEET NO.



- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE

			.03 room identification sign per dtl. 2/A0.1	FILE NO. 39-50 A	PP NO. 02-118041
	NOTES		.04 restroom identification sign per dtl. 2/A0.1 .05 ADA Tactile exit sign per dtl. 3/A0.1	IDENTIFIC	ATION STAMP
0300	KEYNOTES ARE USED ON SHEET) CONCRETE		.06 self-illuminating exit .07 assistive listening system per detail	DIV. OF THE S	STATE ARCHITECT
0300.A1 0300.A2	concrete slab on grade - replace where remove concrete footing	d	7/A0.1 .08 Monument sign	APP. 02-118 REVIEW	3041 INC: WED FOR
0300.A4 0300.A5	expansion joint splash block		.09 Building sign .10 Dedication plague		
0300.A6	Concrete curb	2100.A5 2100.A6	toilet partition urinal partition	DATE: 04/2	28/2020
0400 0400.A1	MASONRY concrete masonry wall	2100.A6 2100.A7	toilet accessories:		
0500	METALS		.01 paper towel dispenser .02 toilet paper dispenser		
0500.A2	corrugated structural metal roof deck		.03 sanitary napkin dispenser .04 soap dispenser		
0500.A3 0500.A4	metal pipe bollard concrete fill metal pipe bollard removable		.05 mirror .09 trash receptacle		450
0500.A5 0500.A6	metal pipe hand rail - 1.5" diameter metal roof access ladder with security door		.10 grab bar .11 toilet seat cover, toilet tissue dispenser		С Ф
0500.A7 0500.B1	metal louver rolled channel (structural support grid)		.12 toilet seat cover, sanitary napkin disposal, & toilet tissue dispenser		uite 25 2
0500.B2	metal furring channel		.13 sanitary napkin disposal		S 8 (
0600 0600.A1	WOOD, PLASTICS AND COMPOSITES wood framing - see structural	2100.A8	folding panel partition		
0600.A2 0600.A3	frame opening for new door, window, or HVAC in-fill frame door/window/duct opening	2100.B1	fire extinguisher .01 Provide UL Rated Class K 2A:K per spec.		eni CA 21 -22
0600.A3	in-fill frame roof opening where equipment was		.02 Provide UL Rated Class K 10B:C per spec.		Avenue o, CA 9 6.921.2 321.221;
0600.A5	removed wood post	2100.B2 2100.B3	metal shelving metal lockers		
0600.A6 0600.A7	wood joist wood trusses	2100.B4	knox box		Howe rament ne: 91 916.9
0600.A8 0600.A9	2 x 4 furred wall blocking	2110 2110.A1	EQUIPMENT projection screen		He tran ne : 5
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A2	refrigerator		730 Sacr Phor Fax:
0600.B2	wood framed and sheathed cricket - use fire	2110.A3	microwave (owner furnished, contractor installed)		К О́ Ц Ц́
0600.C1	retardant treated wood wood trim	2110.A4	Type I kitchen Exhaust hood - w/ Fire System Remote Pull Station - see FS Sheets		
0600.C2	wood hand rail	2100.A5 2100.A6	Hand Sink - See Detail E/FS8.2 Food Service Equipment shown w/ light line -		TS +
0700 0700.A1	THERMAL AND MOISTURE PROTECTION insulation		sheet FS Sheets.		AT AT
	.01 R-13 batt/blanket (3.5" thick) .02 R-21 batt/blanket (6.5" thick)	2120 2120.A1	FURNISHINGS window coverings & track		
	.03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick)	2120.A1 2120.A2	plastic laminate casework		CF SCE
	.05 board insulation (2" thick)		.01 ada accessible sink base cabinet .02 plastic laminate countertop with 4"		AS AS AR
0700.B1	.06 board insulation tapered cricket Standing seam roofing system	2120.A3	backsplash casework		
0700.B2.	single ply membrane roofing system .01 extend roofing up and over parapet wall	2200	PLUMBING	CED.	ARCI
	.02 walk pad .03 Parapet Wall Flashing	2200.A1	plumbing equipment	CENSED CENSED	
0700.B3 0700.B4	built up roofing modified bitumen roofing		.02 lavatory	A ANT	
0700.B5	composition shingle roofing		.03 toilet .04 urinal	(∽ C-22	2525
0700.C1	galvanized sheet metal .01 two piece Fry Springlok flashing system		.05 drinking fountain .06 mop sink	12/3	1/21
	.02 parapet cap flashing .02 valley flashing		.07 water heater .08 Roof drain/Overflow Combo Unit		
	.03 splash pan .05 scupper		.09 Floor drain - slope floor to drain 2% max. slope	OF	CALIFO
	.06 gutter .07 downspout	0000			
	.08 22 GA GSM Siding/Soffit	2300 2300.A1	HVAC mechanical equipment - see mechanical		
0700.C2	.09 22 GA GSM Corner Guard vent	2300.A2	drawings ceiling register	l X	
	.01 roof vent - typ. of 4 .02 pipe vent	2300.A3 2300.A4	mechanical duct Condensate Line	I Y	
	.03 hot vent .04 duct penetration	2300.A5	kitchen exhaust fan	ZŪ	
0700.D1	sealant .01 remove (e) sealant from (e) doors and (e	2600 2600 A1	ELECTRICAL electrical equipment	<u>0</u> 0	
	.02 remove (e) sealant and backer pod from	2600.A1	light fixture		
	(e) concrete wall panel joint - install (n)		SITEWORK		
	backer rod and sealant - typical	3200.A1 3200.A2	gas meter assembly water meter box		
0800 0800.A1	OPENINGS door and frame	3200.A3 3200.A4	backflow assembly fire hydrant		D _
0800.A3 0800.A4	door frame roll up door	3200.A5 3200.A6	trench drain area drain	E E Ω	7 –
0800.A5 0800.A6	window storefront window system	3200.A7	drain inlet		Α̈́Ξ
0800.A7	access door	3200.B1 3200.B2	decomposed granite aggregate base rock		ЧЧ К
0800.A8 0800.A9	extruded alum. corner Roof hatch	3200.B3 3200.B4	concrete paving asphalt paving		$\Box >$
0900	FINISHES	3200.B5 3200.B6	concrete curb concrete mow strip	L N	Ш
0900.A1 0900.A2	vinyl composition tile flooring and base resilient sheet flooring and base	3200.B7	trash enclosure	\Box	
0900.A3 0900.A4	carpet and base base	3200.C1	line paint striping		
0900.A5 0900.B1	ceramic tile gypsum board	3200.C2	fire lane striping	YI	
0900.B2	wainscot	3200.C3 3200.D1	game line striping ada accessible car parking stall	CONSULTANT	
0900.B3 0900.B4	vinyl wall covering vinyl wall covering wrapped tackboard panels	3200.D2 3200.D3	ada accessible van parking stall ada accessible ramp per civil		
0900.B5 0900.B6	fiberglass reinforced plastic panels (FRP) SS wall panels per food service	3200.D4 3200.D5	truncated domes ada accessible path of travel		
0900.C1 0900.C2	suspended acoustical ceiling system glued or stapled on acoustical tile	3200.D6 3200.D7	ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's)		
0900.D1	cement plaster wall finish .01 Expansion Screed	3200.D8 3200.E1	ada accessible drinking fountain chain link fence		
0000 D2	.02 4" soffit vent screed	5200.L1	.01 single 3'-0" wide swing gate		
0900.D2 0900.D3	exterior panel wall system Metal Siding/Soffits	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats		
2100	SPECIALTIES		.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate		
2100.A1 2100.A2	display case marker board	3200.E3 3200.F1	ornamental metal fence reconfigure (e) irrigation and sprinklers		
2100.A3 2100.A4	TV/monitor bracket signs:	3200.F2	sod turf landscaping planting area - patch & repair	PROJECT NO.	REVISIONS BY
	.01 parking lot entrance sign "towaway" per Civil	3200.F3	remove (e) trees	19-32-050	
	.02 ADA accessible parking stall sign per Civ	il3200.F4	remove (e) ada parking symbol	DATE 04/10/2020	
				DRAWN	
				SLH	
				CHECKED	

SCALE

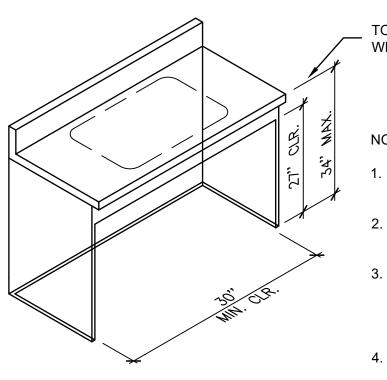
CADFILE UPDATED

SLH

SHEET NO.

A2.3

DO	OR SCHEDULE														
			NOI			Ű	ЯË	FRAM	ИE	DETAIL	S				DOOR TYPES
DOOR MARK/TYPE	DOOR SIZE WIDTH X HEIGHT	DOOR TYPE	CONSTRUCTION	FINISH	GLAZING	FIRE RATING	HARDWARE GROUP	MATERIAL	FINISH	HEAD	JAMB	SILL	DOOR NOTES	DOOR LEGEND	
	BUILDING A														
A101	3'-0" X 7'-0"	A	HM	P	-	-	01	HM	Р	4/A8.2	5/A8.2	6/A8.2	1, 2, 3, 6	WD WOOD FG FIBER GLASS T TEMPERED SAFETY HM HOLLOW METAL	
A102	3'-0" X 7'-0"	Α	HM	P	-	-	03	HM	Р	2/A8.2	2/A8.2	6/A8.2	3, 6	S STAIN SC SOLID CORE WOOD P PAINT PM PREFINISHED METAL F FACTORY FINISH AL AL UMINUM	
A103	3'-0" X 7'-0"	Α	HM	P	-	90-Min	. 04	HM	Р	2/A8.2	2/A8.2	6/A8.2	3, 6	F FACTORY FINISH AL ALUMINUM E EXISTING T.CLR TEMPERED CLEAR SS STAINLESS STEEL	
A104	3'-0" X 7'-0"	Α	HM	P	-	-	02	HM	Р	2/A8.2	2/A8.2	6/A8.2	4, 5	33 STAINLESS STEEL	
A105	4'-0" X 4'-0"	В	SS	-	-	90-Min	. 05	SS	-	7/A8.2	8/A8.2	9/A8.2	14, 16		A T
														DOOR NOTES	
														 EXTERIOR DOORS SHALL BE WEATHER STRIPPED AND ALL JOINTS AND PENETRATIONS SHALL BE CHALKED AND SEALED. PROVIDE TACTILE EXIT SIGN PER DETAIL 3/A0.1 PROVIDE ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1. PROVIDE TOILET ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1 PROVIDE TOILET ROOM DOOR SYMBOLS PER DETAIL 2/A0.1. ALL DOORS INTERIOR AND EXTERIOR SHALL HAVE ¹/₂" MAXIMUM HIGH THRESHOLD (ABOVE 	 WHERE REQUIRED BY HAP WITH MAXIMUM DOOR OP LBS. AT EXTERIOR AND AT AND ARE EQUIPPED WITH NON-GRASPING TYPE HAP CENTERED BETWEEN 34" 2016 CBC, SECTIONS 11B-4 11B-404.2.9. 7. REQUIRED EXIT DOORS TO WITH PANIC HARDWARE 8. PROVIDE 1'-6" WIDE X 1'-0 9. ALL EXTERIOR DOOR GLA DOUBLE PANE INSULATING 10. FLOOR DOOR STOPS TO E NOT TO CAUSE A TRIPPING

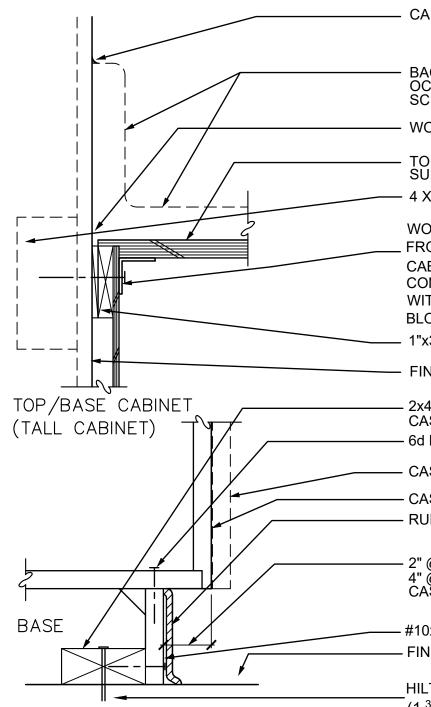


TO TOP OF CABINET OR SINK WHICHEVER IS HIGHER

NOTES:

- PROVIDE SIDES AND BACK. DELETE FRONT DOORS.
- 2. EXTEND FLOORING AND BASE INTO CABINET.
- INSULATE WATER SUPPLY PIPES AND DRAIN PIPES UNDER ACCESSIBLE FIXTURES TYP.
- SEE DETAILS ON SHEET A0.1 4. FOR ACCESSIBLE SINK CLEARANCE REQUIREMENTS.

1 ACCESSIBLE CASEWORK



- CAULK SPLASH TO WALL

- BACKSPLASH & COUNTERTOP AS OCCURS, SEE INTERIOR ELEVATIONS-SCRIBE BACKSPLASH TO WALL

WOOD SHIM TYP.

TOP OF CABINET OR SUB-TOP WHERE OCCURS

- 4 X BLOCKING PER DETAIL 8/A0.1

WOOD/MTL STUD WALLS: #14 P.H.W.S. @ 6" FROM EACH END AND 12" O.C. (3 MIN. PER CABINET AT BASE CABINETS) (USE 1-1/2" X $\frac{1}{8}$ " CONT. ANGLE AND 4 MIN. AT TALL CABINETS) WITH 1-1/2" MIN. PENTRATION INTO 4X BLOCKING.

— 1"x3" WOOD NAILER, TYP.

– FINISHED FACE OF WALL

– 2x4 PPT WOOD NAILER - FULL WIDTH OF CASEWORK UNIT – 6d FIN. NAILS @ 6"O.C.

– CASEWORK DOOR OR DRAWER - CASEWORK FRONT

– RUBBER BASE

– 2" @ 1'-0" DEEP CASEWORK 4" @ 2'-0" DEEP & DEEPER CASEWORK

— #10x2" F.H.W.S. @ 12" O.C. — FINISH FLOOR

____HILTI X-CP PDF (0.145" Ø x 2 7/8") @ 24" O.C. (1 3/8" MIN. EMBED) WITH 7/8" Ø WASHER





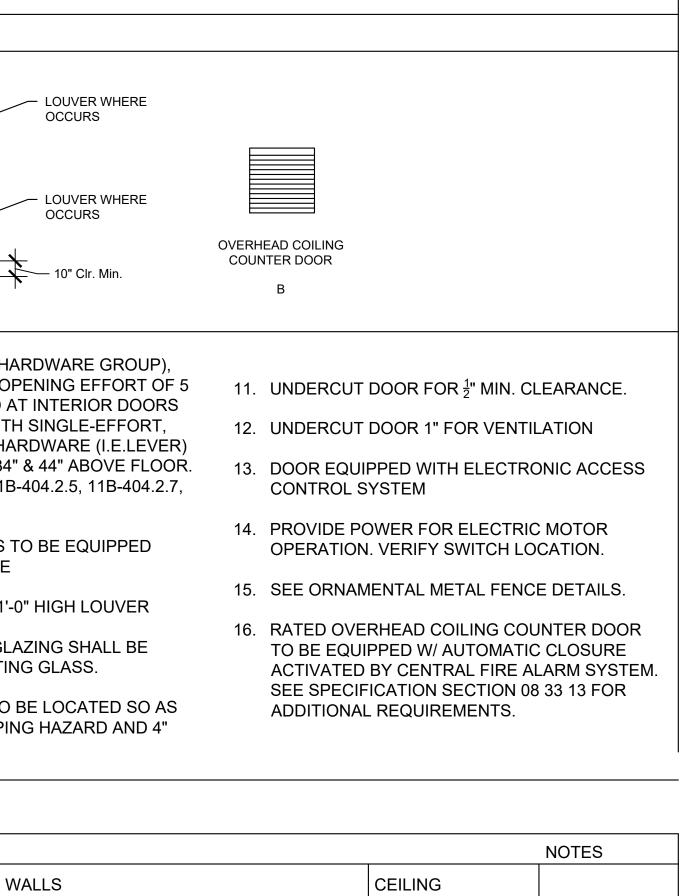
К Ī \circ 154A 222A <u>NOTES</u>

WORK SC	HE	DULI	Ε										
	SIZE		FINISH										
				CAS	SEW	/OR	K		UN ISH		TOF)	
W.I. NUMBER*	WIDTH	HEIGHT	DEPTH	PLASTIC LAMINATE				PLASTIC LAMINATE					NOTES
154	36	34	24	•				•					1, 2, 3
222	30	34	24	•				•					1, 3

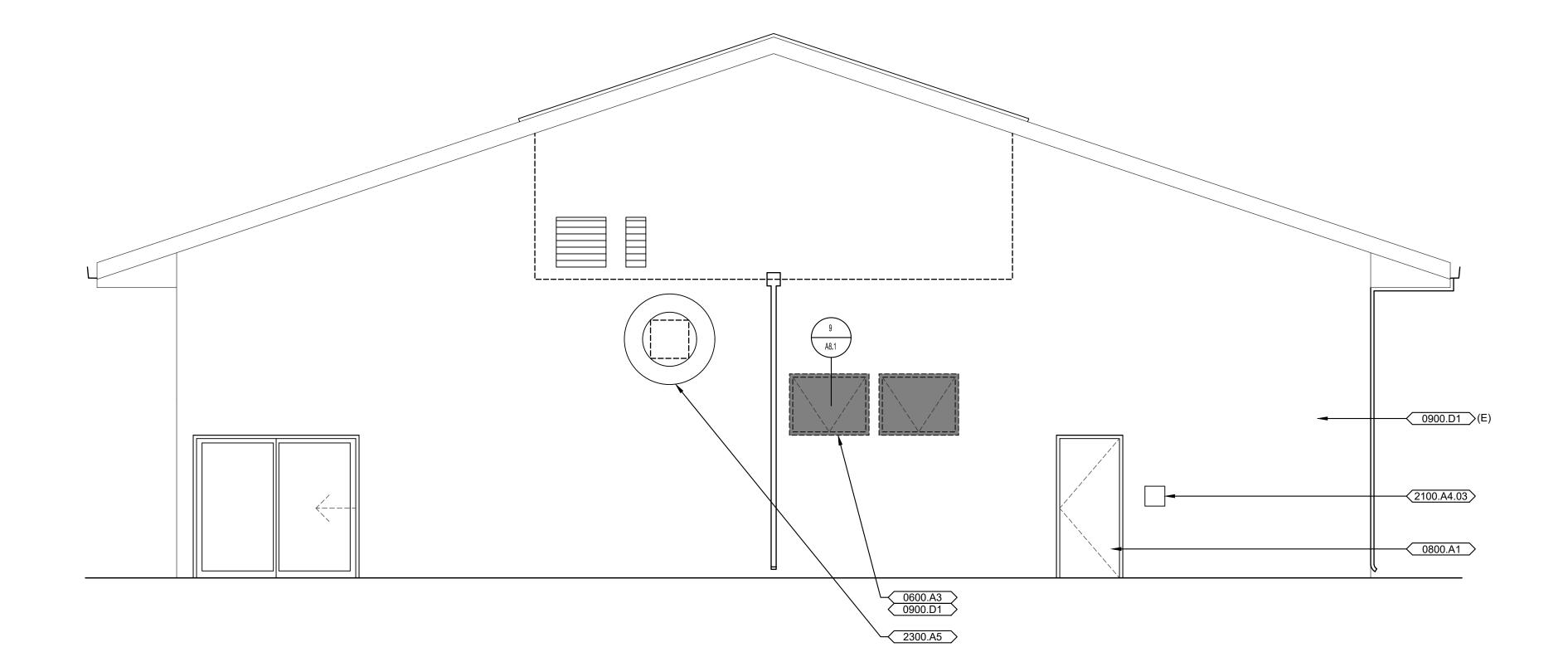
1. HEIGHT PROVIDED FOR BASE CABINETS IF FROM FINISHED FLOOR TO TOP OF COUNTER TOP. ACTUAL HEIGHT OF BASE CABINET IS LESS. 2. SEE DETAIL 1 THIS SHEET FOR ADA SINK BASE DETAIL.

3. SEE DETAIL 2 THIS SHEET FOR CABINET ANCHORAGE.

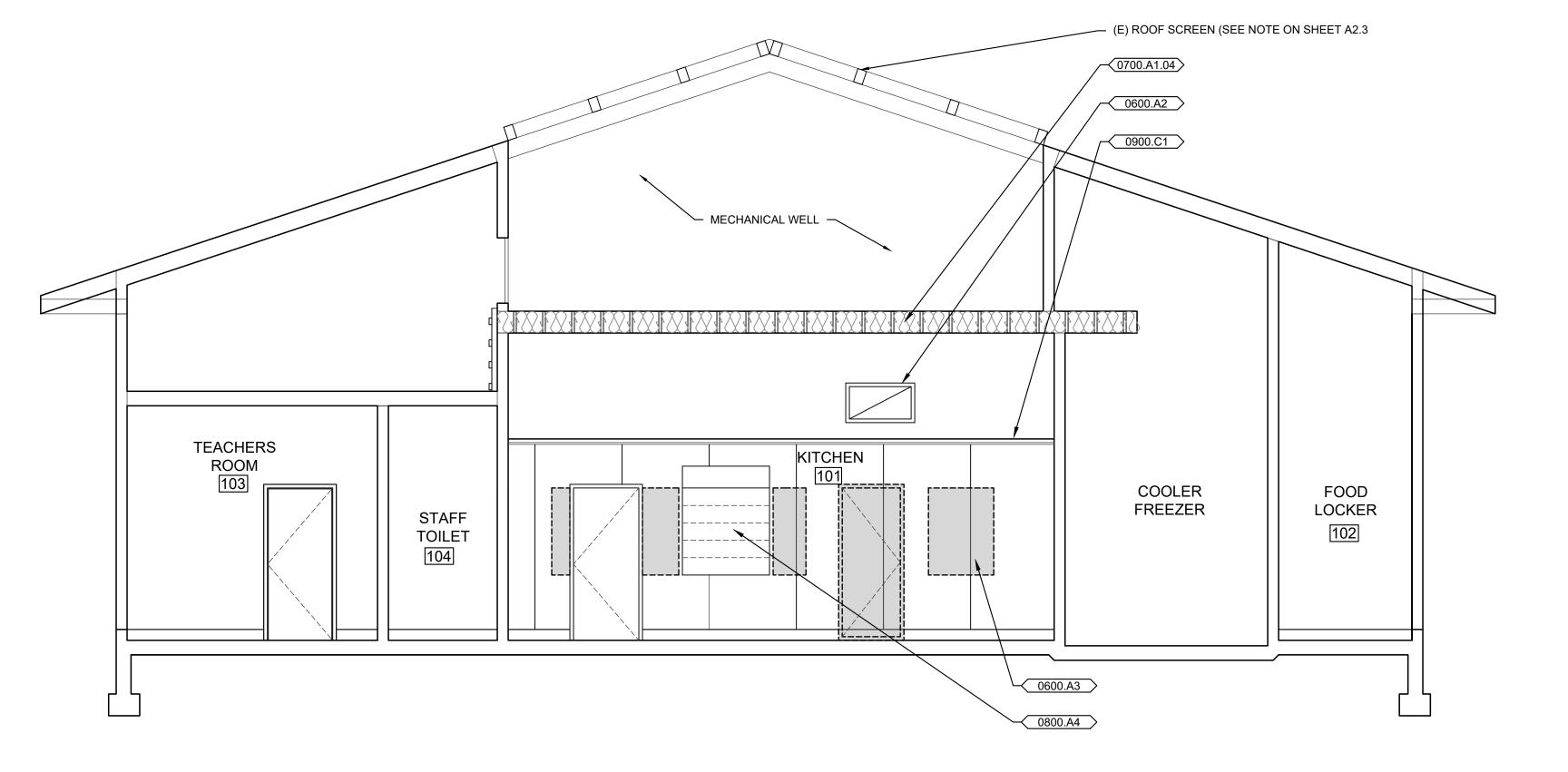
MAT	ERIAL & FINI																		NOTES
		FLOC	DR	BASE		WAIN	SCOT	WALI	LS			1		1		CEIL	ING	1	
ROOM NUMBER		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	HEIGHT	MATERIAL	FINISH	MATERIAL ^m	FINISH	MATERIAL 0	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
R N N	ROOM NAME	₩	L L	W		W	뽀	źΜ	L L	M/		W/	LI FI	Ď	111	Ψ		<u> </u>	
A101	KITCHEN	RE	-	6B	-	FRP1	9'-0"	G1	Р	G1	Ρ	G1	Р	G1	Р	A3	F	9'-0"	1, 2, 3, 4, 5,
A102	FOOD LOCKER	RE	-	6B	-	FRP1	9'-0"	G1	Р	G1	Ρ	G1	Р	G1	Р	G1	Р	VARIES	2, 3, 4, 5, 6
A103	TEACHER ROOM	RT	-	4B	-	-	-	Е	Р	E	Ρ	E	Р	E	Р	E	Р	9'-0"	7
A104	STAFF TOILET	RE	-	6B	-	FRP1	9'-0"	G1	-	G1	-	G1	-	G1	-	G1	Р	9'-0"	1, 2, 5, 6
A105	JAN/STOR	RE	-	6B	I	FRP1	8'-0"	Ш	-	E	-	E	I	E	I	E	Р	9'-0"	10
A106	MP	-	-	4B	-	-	-	-	-	-	-	-	-	G1	Р	-	-	-	10
					NOT														
6B 6 C1 C C2 V RT F RS F G1 5 G2 5 GE C CON C CS C P F N N E F FRP1 F FRP2 F VWT V A1 2 S A2 2 S A3 2	" RUBBER BASE " INTEGRAL COVE BASE (I CARPET TILE VALK-OFF CARPET TILE RESILIENT TILE FLOORING RESILIENT SHEET VINYL FI RESINOUS FLOORING 5/8" GYPSUM BOARD 5/8" GYPSUM BOARD S/8" TYPE "X" GYPSUM BOA GYPSUM BOARD EXISTING CONCRETE CONCRETE SEAL PAINT NO FINISH EXISTING FACTORY FIBER REINFORCED PLAST FIBER REINFORCED PLAST FIBER REINFORCED PLAST VINYL WRAPPED TACKBOA SYSTEM TYPE A1 CY X 4' SUSPENDED ACOUS SYSTEM TYPE A1 CY X 4' SUSPENDED ACOUS SYSTEM TYPE A2	LOORIN ARD TIC PAN TIC PAN ARD TICAL C	G EL EL SEILING SEILING	2. 3. 4. 5. 6. 7. 8.	TYPI INTE LEAS PRO INSU EXTI CRE BAT WHE INSU PRO PATU CEIL ALL CRIT	WATER ICAL. CGRAL CO ST 6" UP VIDE R-1 JLATION ERIOR W ATE AN I T INSULA ERE BAT JLATION VIDE SO CH AND I ING ANE FLOOR F	OVE BA: WALL. 19 BATT AT ROC (ALL INS ENVELC ATION IN T ROOF SHALL I SHALL I UND IN REPAIR O GYPSU	SE MUS INSULA DF JOIS BULATIC DPE WIT INSULA BE PAP SULATIC WALLS JM BOA MATERIA	ATION A TS ON SHAL TH THE F ED AT T ATION IS ER FAC ON AT IN & CEILI RD AT V ALS SHA ND OPTI	%" MINI T EXTER LL EXTER ROOF IN HE ROO E EXPOS E AND IN NTERIOF NTERIOF NG (12x VALLS) I ALL CON CAL DEI	MUM R RIOR W ND TO T SULATI ED TO STALL R WALL R W R WALL R W R WALL R W R WAL R W R W R W R W R W R W R W R W R W R W	ADIUS C OOD STU THE ROC ION. L BE INS OCCUPI ED NEA S AND C USTICAL TO PAIN TO CBC SMOKE F	COVING UD WAL DF STRU STALLEI ED SPA TLY, RE EILING. L TILE C TING SECTIC RATING.	AND SH LLS; PRO UCTURE D BETW CE BEL ADY FO OVER GY	AND S EAND S EEN JO OW, TH R PAIN	ATEND A A-38 BAT HALL ISTS. E T. BOARD	т		
					PER	ALL AND FORMAN CH AND I	ICE AND	SMOK	E DEVE	LOPMEN	NT.		SECTIO	ON 803 F	ORFIR	Ε			



FILE NO. 39-50	APP NO. 02-118041
DIV. OF THE S APP. 02-112 REVIE	WED FOR SLS I ACS I /28/2020
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
	ARCHIERON
CONSULTANT	DOOR SCHEDULE FINISH SCHEDULE
PROJECT NO. 19-32-050	REVISIONS BY
DATE 04/10/2020 DRAWN	
SLH CHECKED SLH	
SCALE	
CADFILE	
SHEET NO.	
A3	5.1









0300.A4 0300.A5 0300.A6 0400

0400.A1 0500 0500.A2 0500.A3 0500.A4 0500.A5 0500.A6 0500.A7 0500.B1

0600 0600.A1 0600.A2 0600.A3 0600.A4 0600.A5

0500.B2

0600.A6 0600.A7 0600.A8 0600.A9 0600.B1 0600.B2 0600.B3 0600.C1

0700 0700.A1

0600.C2

0700.B1 0700.B2.

0700.B4 0700.B5 0700.C1

0700.C2

0700.D1

0800 0800.A1 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9

0900 0900.A1 0900.A2 0900.A3 0900.A4 0900.A5 0900.B1 0900.B2 0900.B3 0900.B4 0900.B5 0900.B6

0900.C2 0900.D1 0900.D2 0900.D3 2100

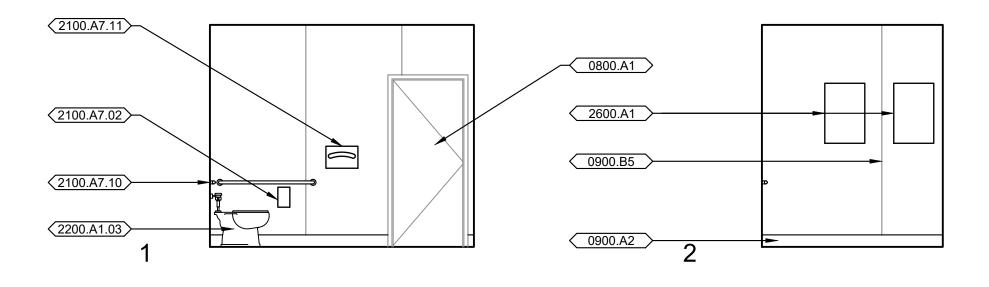
0900.C1

2100.A1 2100.A2 2100.A3 2100.A4

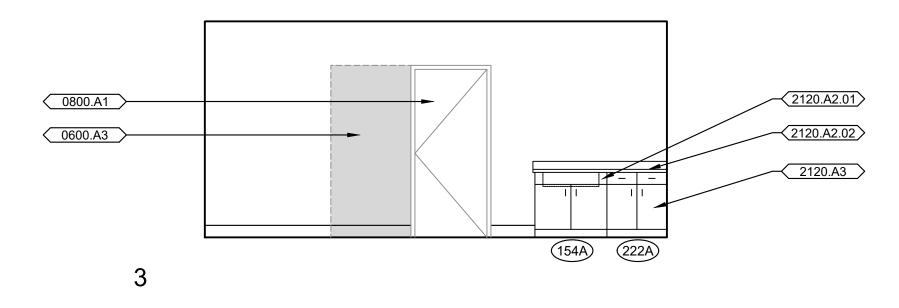
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 02-118041 INC: **KEYNOTES** .03 room identification sign per dtl. 2/A0.1 **REVIEWED FOR** .04 restroom identification sign per dtl. 2/A0.1 SS 🖸 FLS 🖉 SACS 🗹 .05 ADA Tactile exit sign per dtl. 3/A0.1 (NOT ALL KEYNOTES ARE USED ON SHEET) .06 self-illuminating exit DATE: 04/28/2020 0300 CONCRETE .07 assistive listening system per detail 0300.A1 concrete slab on grade - replace where removed 7/A0.1 0300.A2 concrete footing .08 Monument sign expansion joint .09 Building sign splash block .10 Dedication plague Concrete curb 2100.A5 toilet partition 450 2100.A6 urinal partition MASONRY 2100.A7 toilet accessories: concrete masonry wall .01 paper towel dispenser 730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212 .02 toilet paper dispenser METALS .03 sanitary napkin dispenser corrugated structural metal roof deck .04 soap dispenser metal pipe bollard concrete fill .05 mirror metal pipe bollard removable .09 trash receptacle metal pipe hand rail - 1.5" diameter .10 grab bar metal roof access ladder with security door .11 toilet seat cover, toilet tissue dispenser metal louver .12 toilet seat cover, sanitary napkin disposal, rolled channel (structural support grid) & toilet tissue dispenser metal furring channel .13 sanitary napkin disposal .14 paper towel dispenser/ waste recepticle WOOD, PLASTICS AND COMPOSITES 2100.A8 folding panel partition wood framing - see structural 2100.B1 fire extinguisher frame opening for new door, window, or HVAC .01 Provide UL Rated Class K 2A:K per spec. in-fill frame door/window/duct opening .02 Provide UL Rated Class K 10B:C per in-fill frame roof opening where equipment was spec. removed 2100.B2 metal shelving wood post 2100.B3 metal lockers wood joist 2100.B4 knox box wood trusses 2 x 4 furred wall 2110 EQUIPMENT blocking 2110.A1 projection screen exterior wood wall sheathing 2110.A2 refrigerator exterior wood roof sheathing microwave (owner furnished, contractor 2110.A3 wood framed and sheathed cricket - use fire installed) retardant treated wood 2110.A4 Type I kitchen Exhaust hood - w/ Fire System wood trim Remote Pull Station - see FS Sheets HEN ASSOI wood hand rail 2100.A5 Hand Sink - See Detail E/FS8.2 2100.A6 Food Service Equipment shown w/ light line -THERMAL AND MOISTURE PROTECTION sheet FS Sheets. insulation .01 R-13 batt/blanket (3.5" thick) 2120 FURNISHINGS .02 R-21 batt/blanket (6.5" thick) 2120.A1 window coverings & track .03 R-30 batt/blanket (10" thick) 2120.A2 plastic laminate casework .04 R-38 batt/blanket (12" thick) .01 ada accessible sink base cabinet .05 board insulation (2" thick) .02 plastic laminate countertop with 4" .06 board insulation tapered cricket backsplash Standing seam roofing system 2120.A3 casework single ply membrane roofing system .01 extend roofing up and over parapet wall 2200 PLUMBING .02 walk pad 2200.A1 plumbing equipment .03 Parapet Wall Flashing .01 sink 0700.B3 built up roofing .02 lavatory modified bitumen roofing .03 toilet composition shingle roofing .04 urinal galvanized sheet metal .05 drinking fountain .01 two piece Fry Springlok flashing system .06 mop sink .02 parapet cap flashing .07 water heater -ION SCHOOI .02 valley flashing .08 Roof drain/Overflow Combo Unit .03 splash pan .09 Floor drain - slope floor to drain 2% max. .05 scupper slope .06 gutter .07 downspout 2300 HVAC .08 22 GA GSM Siding/Soffit 2300.A1 mechanical equipment - see mechanical .09 22 GA GSM Corner Guard drawings vent 2300.A2 ceiling register .01 roof vent - typ. of 4 KITCHEN RENOVAT HOUSTON (SERNA) 2300.A3 mechanical duct .02 pipe vent 2300.A4 Condensate Line .03 hot vent 2300.A5 kitchen exhaust fan .04 duct penetration sealant 2600 ELECTRICAL .01 remove (e) sealant from (e) doors and (e) 2600.A1 electrical equipment windows, install (n) sealant - typical 2600.A2 light fixture .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) 3200 SITEWORK backer rod and sealant - typical 3200.A1 gas meter assembly 3200.A2 water meter box OPENINGS 3200.A3 backflow assembly door and frame 3200.A4 fire hydrant door frame 3200.A5 trench drain roll up door 3200.A6 area drain window 3200.A7 drain inlet storefront window system 3200.B1 decomposed granite access door 3200.B2 aggregate base rock extruded alum. corner 3200.B3 concrete paving Roof hatch 3200.B4 asphalt paving 3200.B5 concrete curb FINISHES 3200.B6 concrete mow strip vinyl composition tile flooring and base CONSULTANT resilient sheet flooring and base 3200.B7 trash enclosure carpet and base 3200.C1 line paint striping base ceramic tile 3200.C2 fire lane striping gypsum board 3200.C3 game line striping wainscot 3200.D1 ada accessible car parking stall vinyl wall covering 3200.D2 ada accessible van parking stall vinyl wall covering wrapped tackboard panels 3200.D3 ada accessible ramp per civil fiberglass reinforced plastic panels (FRP) 3200.D4 truncated domes SS wall panels per food service 3200.D5 ada accessible path of travel suspended acoustical ceiling system 3200.D6 ada accessible restrooms (men's and women's) glued or stapled on acoustical tile 3200.D7 ada accessible restrooms (girl's and boy's) cement plaster wall finish 3200.D8 ada accessible drinking fountain .01 Expansion Screed 3200.E1 chain link fence .02 4" soffit vent screed .01 single 3'-0" wide swing gate exterior panel wall system .02 pair 6'-0" wide swing gate REVISIONS PROJECT NO. Metal Siding/Soffits 3200.E2 chain link fence with vinyl slats 19-32-050 .01 single 3'-0" wide swing gate SPECIALTIES .02 pair 6'-0" wide swing gate DATE display case 3200.E3 ornamental metal fence 04/10/2020 marker board 3200.F1 reconfigure (e) irrigation and sprinklers TV/monitor bracket 3200.F2 sod turf landscaping planting area - patch & DRAWN signs: repair SLH .01 parking lot entrance sign "towaway" per 3200.F3 remove (e) trees CHECKED .02 ADA accessible parking stall sign per Civil3200.F4 remove (e) ada parking symbol SLH SCALE

FILE NO. 39-50 APP NO. 02-118041

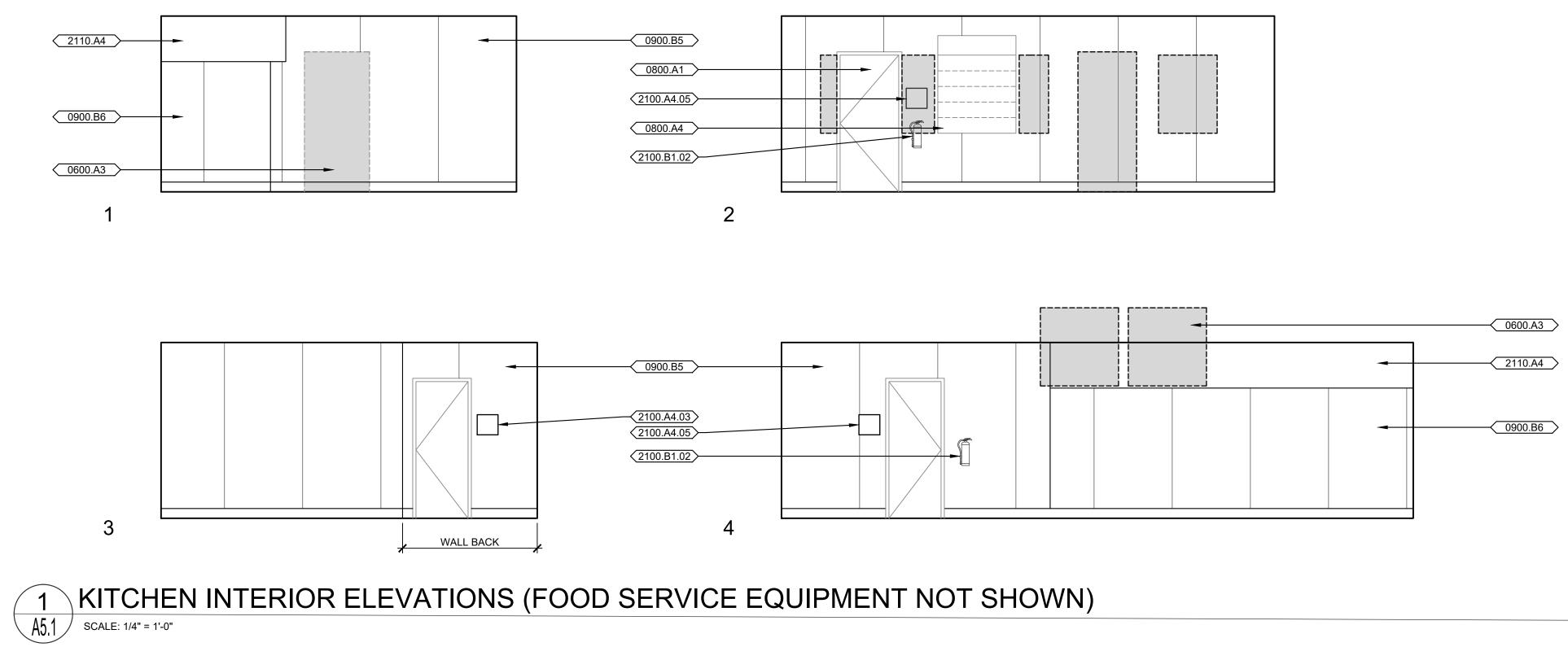
EXTERIOR ELEVATION BUILDING SECTION

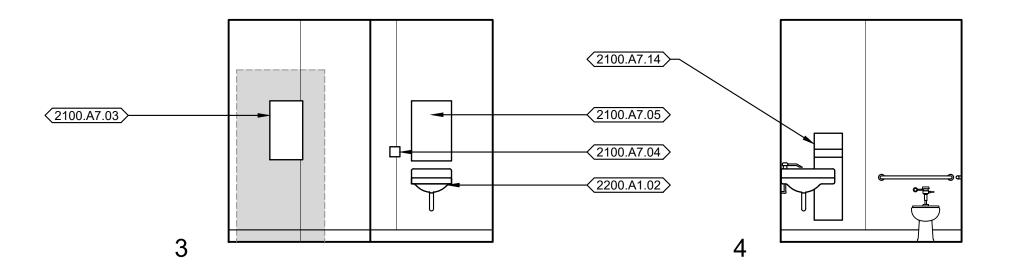












(SEE SHEET A0.1 FOR DISABLED ACCESSIBLE FIXTURES AND ACCESSORIES MOUNTING HEIGHTS, LOCATIONS AND REQUIREMENTS)

		•	() ()-J	DRAWN SLH
	Civil .02 ADA accessible parking stall sign per Civ		remove (e) ada parking symbol	04/10/2020
2100.A4	signs: .01 parking lot entrance sign "towaway" per	3200.F3	repair remove (e) trees	DATE
2100.A2 2100.A3	marker board TV/monitor bracket	3200.F1 3200.F2	reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch &	PROJECT NO. REVISIONS BY 19-32-050
2100.A1	display case	3200.E3	ornamental metal fence	
2100	SPECIALTIES	·	.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate	
0900.D2 0900.D3	exterior panel wall system Metal Siding/Soffits	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats	
0000 -	.01 Expansion Screed .02 4" soffit vent screed	3200.E1	chain link fence .01 single 3'-0" wide swing gate	
0900.C2 0900.D1	cement plaster wall finish	3200.D8	ada accessible restrooms (girl's and boy's) ada accessible drinking fountain	
0900.C1 0900.C2	suspended acoustical ceiling system glued or stapled on acoustical tile	3200.D5 3200.D6 3200.D7	ada accessible restrooms (men's and women's)	
0900.B5 0900.B6	fiberglass reinforced plastic panels (FRP) SS wall panels per food service	3200.D4 3200.D5	truncated domes ada accessible path of travel	
0900.B3 0900.B4	vinyl wall covering vinyl wall covering wrapped tackboard panels	3200.D2 3200.D3	ada accessible van parking stall ada accessible ramp per civil	
0900.B1 0900.B2	gypsum board wainscot	3200.C3 3200.D1	game line striping ada accessible car parking stall	CONSULTANT
0900.A5	base ceramic tile gyrsum board	3200.C1 3200.C2	line paint striping fire lane striping	
0900.A2 0900.A3 0900.A4	carpet and base	3200.B7	trash enclosure	
0900 0900.A1 0900.A2	vinyl composition tile flooring and base resilient sheet flooring and base	3200.B6	concrete mow strip	
0900	FINISHES	3200.B5	concrete curb	<u> </u>
0800.A8 0800.A9	extruded alum. corner Roof hatch	3200.B2 3200.B3 3200.B4	concrete paving asphalt paving	ЩЩ Ц
0800.A6 0800.A7	storefront window system access door	3200.B1 3200.B2	decomposed granite aggregate base rock	RIOR RIOR
0800.A4 0800.A5	roll up door window	3200.A6 3200.A7	area drain drain inlet	
0800.A3	door frame	3200.A4 3200.A5	fire hydrant trench drain	E (S)
0800 0800.A1	OPENINGS door and frame	3200.A3	backflow assembly	
	backer rod and sealant - typical	3200.A1 3200.A2	gas meter assembly water meter box	
		3200	SITEWORK	\$Z ₹
	.01 remove (e) sealant from (e) doors and (e windows, install (n) sealant - typical)2600.A1 2600.A2	electrical equipment light fixture	
0700.D1	sealant	2600	ELECTRICAL	
	.03 hot vent .04 duct penetration	2300.A4 2300.A5	kitchen exhaust fan) SCH
	.01 roof vent - typ. of 4 .02 pipe vent	2300.A3 2300.A4	mechanical duct Condensate Line	
0700.C2	.09 22 GA GSM Corner Guard vent	2300.A2	drawings ceiling register	
	.08 22 GA GSM Siding/Soffit	2300 2300.A1	HVAC mechanical equipment - see mechanical	Q
	.06 gutter .07 downspout	2200		
	.03 splash pan .05 scupper		.09 Floor drain - slope floor to drain 2% max. slope	
	.02 parapet cap flashing .02 valley flashing		.07 water heater .08 Roof drain/Overflow Combo Unit	PARENEWAL DATE OF CALLED
	.01 two piece Fry Springlok flashing system		.06 mop sink	12/31/21
0700.B5 0700.C1	composition shingle roofing galvanized sheet metal		.04 urinal .05 drinking fountain	
0700.B3 0700.B4	built up roofing modified bitumen roofing		.02 lavatory .03 toilet	(★ C-22525 ★
0700 02	.03 Parapet Wall Flashing	2200.A1	plumbing equipment .01 sink	Carrie Circa
	.01 extend roofing up and over parapet wall .02 walk pad	2200	PLUMBING	CENSED ARCHIN
0700.B1 0700.B2.	Standing seam roofing system single ply membrane roofing system	2120.A3	casework	SED AROU
	.05 board insulation (2" thick) .06 board insulation tapered cricket		.02 plastic laminate countertop with 4" backsplash	
	.03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick)	2120.A2	plastic laminate casework .01 ada accessible sink base cabinet	ARIA
	.02 R-21 batt/blanket (6.5" thick)	2120 2120.A1	FURNISHINGS window coverings & track	三 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0700.A1	insulation .01 R-13 batt/blanket (3.5" thick)	2120		
0700	THERMAL AND MOISTURE PROTECTION	2100.A6	Food Service Equipment shown w/ light line - sheet FS Sheets.	AT Y
0600.C2	wood hand rail	2100.A5	Remote Pull Station - see FS Sheets Hand Sink - See Detail E/FS8.2	ES +
0600.C1	retardant treated wood wood trim	2110.A4	Type I kitchen Exhaust hood - w/ Fire System	
0600.B2 0600.B3	exterior wood roof sheathing wood framed and sheathed cricket - use fire	2110.A3	microwave (owner furnished, contractor installed)	
0600.A9 0600.B1	blocking exterior wood wall sheathing	2110.A1 2110.A2	projection screen refrigerator	730 Hc Sacran Phone: Fax: 9
0600.A8	2 x 4 furred wall	2110	EQUIPMENT	30 Hov acram hone: ax: 91
0600.A6 0600.A7	wood joist wood trusses	2100.B3 2100.B4	metal lockers knox box	
0600.A5	removed wood post	2100.B2 2100.B3	metal shelving metal lockers	e vereite vere
0600.A3 0600.A4	in-fill frame door/window/duct opening in-fill frame roof opening where equipment was		.02 Provide UL Rated Class K 10B:C per spec.	
0600.A1 0600.A2	wood framing - see structural frame opening for new door, window, or HVAC	2100.B1	fire extinguisher .01 Provide UL Rated Class K 2A:K per spec.	Avenue o, CA 9 6.921.2
0600 0600 A1	WOOD, PLASTICS AND COMPOSITES	2100.A8	.14 paper towel dispenser/ waste recepticle folding panel partition	
0500.B2	metal furring channel		.13 sanitary napkin disposal	$N \rightarrow \tilde{\Omega}$
0500.A7 0500.B1	metal louver rolled channel (structural support grid)		.12 toilet seat cover, sanitary napkin disposal, & toilet tissue dispenser	82(12 Su
0500.A6	metal roof access ladder with security door		.10 grab bar .11 toilet seat cover, toilet tissue dispenser	uite 25 2
0500.A3 0500.A4 0500.A5	metal pipe bollard concrete in metal pipe bollard removable metal pipe hand rail - 1.5" diameter		.05 mirror .09 trash receptacle	
0500.A2 0500.A3	corrugated structural metal roof deck metal pipe bollard concrete fill		.04 soap dispenser	450
0500	METALS		.02 toilet paper dispenser .03 sanitary napkin dispenser	
0400 0400.A1	MASONRY concrete masonry wall	2100.A7	toilet accessories: .01 paper towel dispenser	
		2100.A5 2100.A6	toilet partition urinal partition	
0300.A5 0300.A6	splash block Concrete curb	0400	.09 Building sign .10 Dedication plague	DATE: 04/28/2020
0300.A2 0300.A4	concrete footing expansion joint		.08 Monument sign	
0300 0300.A1	CONCRETE concrete slab on grade - replace where remove	d	.07 assistive listening system per detail 7/A0.1	APP. 02-118041 INC: REVIEWED FOR
(NOT ALL F	(EYNOTES ARE USED ON SHEET)		.05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit	DIV. OF THE STATE ARCHITECT
KEY	NOTES		.03 room identification sign per dtl. 2/A0.1 .04 restroom identification sign per dtl. 2/A0.1	IDENTIFICATION STAMP
			00	FILE NO. 39-50 APP NO. 02-118041

09 OF 71 SHEETS

A5.1

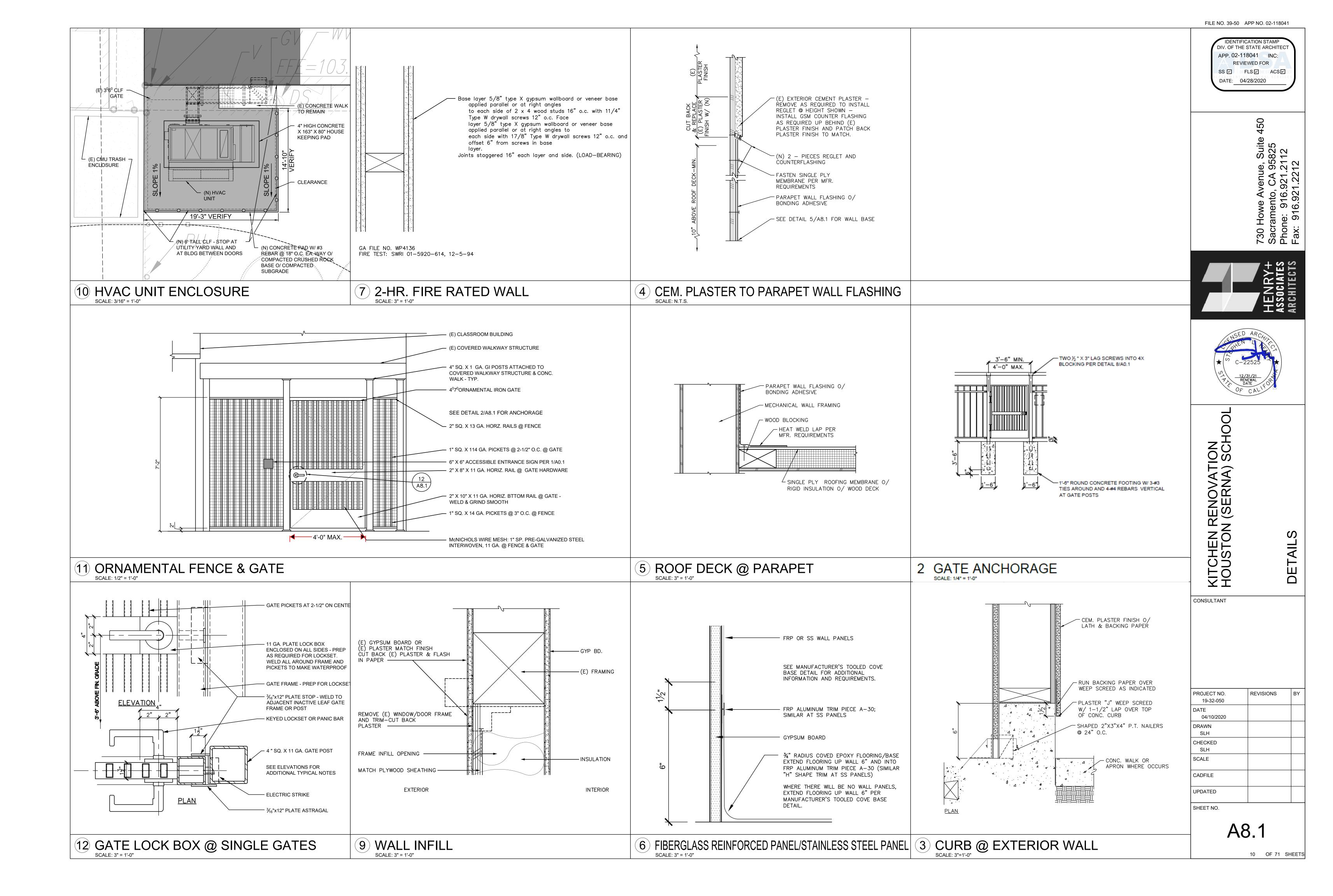
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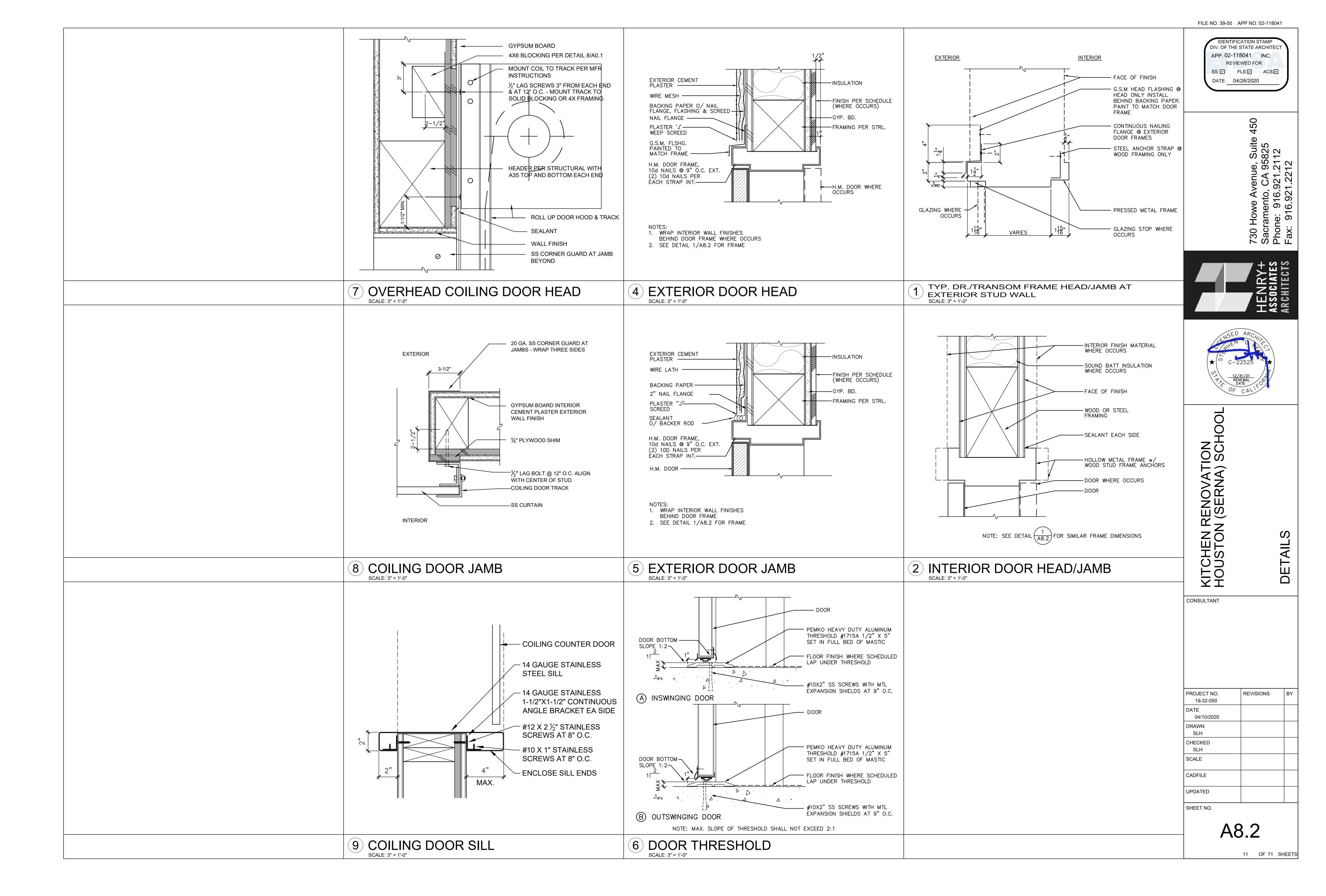
SCALE

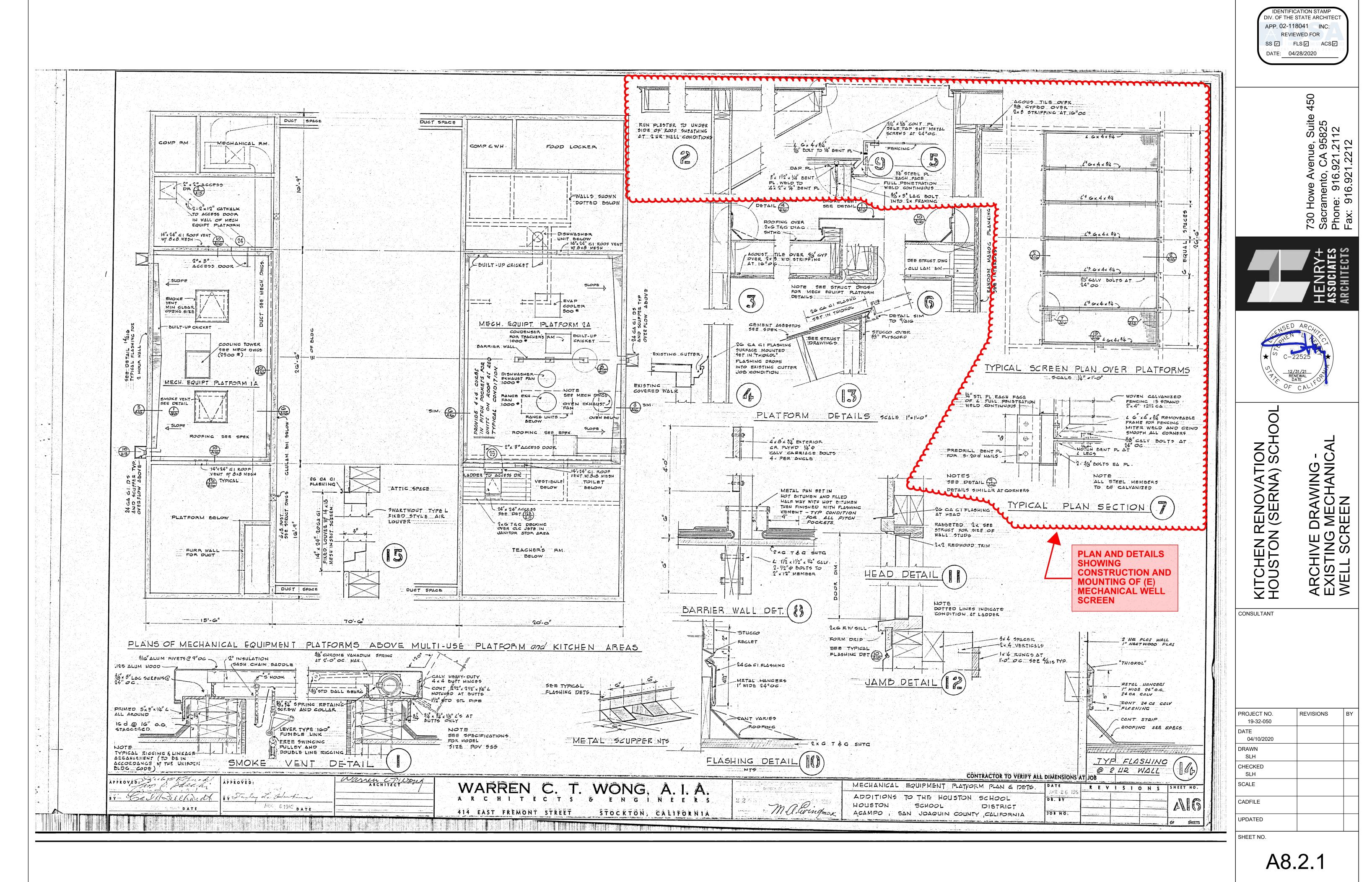
CADFILE

UPDATED

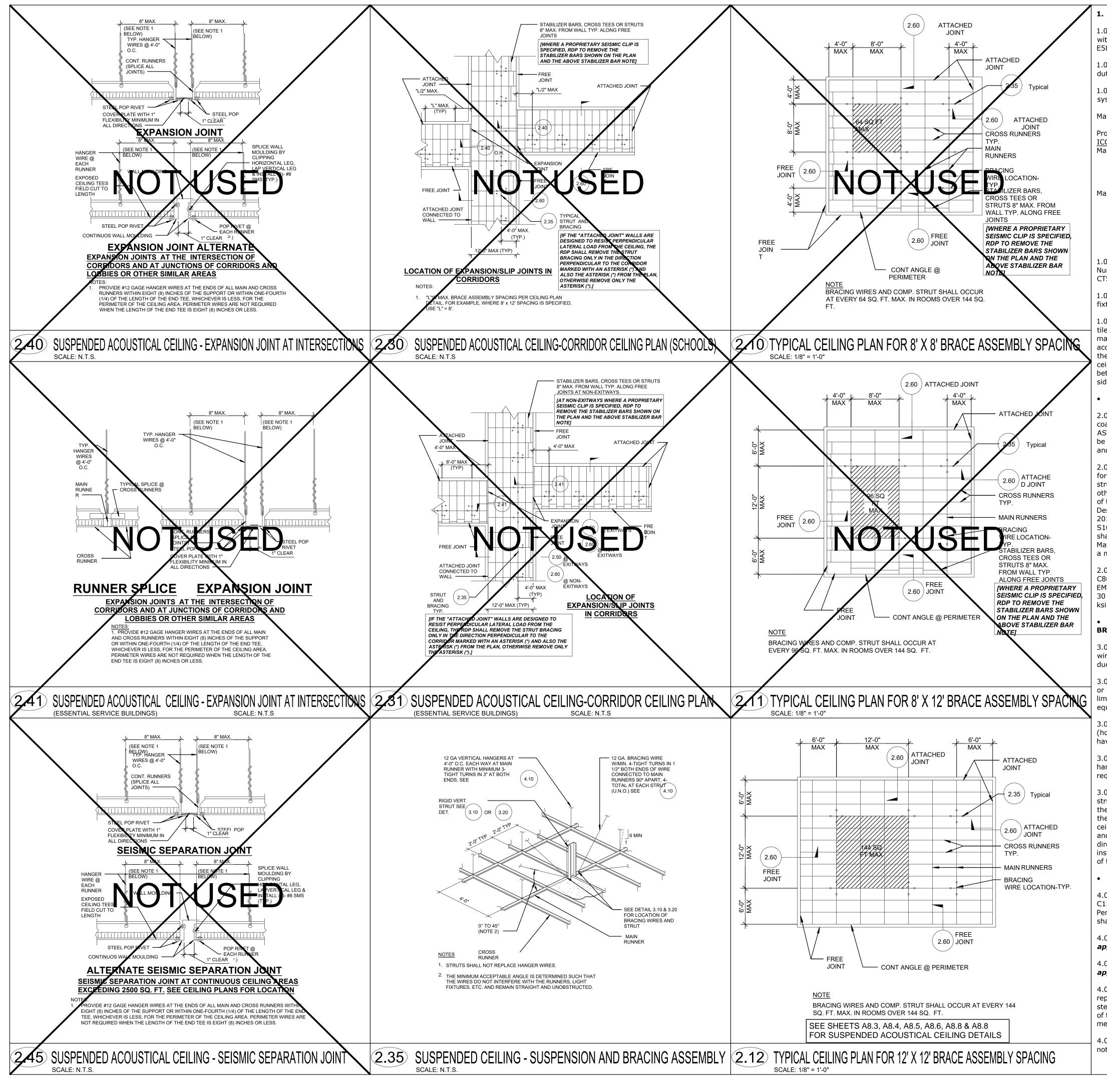
SHEET NO.







FILE NO. 39-50 APP NO. 02-118041



1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project

Manufacturer's Name: Certainteed Ceilings.

Product Evaluation Report Type and Number: ICC-ES Evaluation Report ESR-3336 Manufacturer's Model Number - Main Runners: 9/16" Elite Narrow Stab System

-ES 12-12-19 15/16" Classic Stab System -CS 12-12-20 Manufacturer's catalog number - Cross Runners: 9/16" Elite Narrow Stab System -ES 2-12-19

-ES 4-12-19 15/16" Classic Stab System -CS 2-12-20 -CS 4-12-20

1.04 Seismic Wall Clip: Manufacturer's Model Number Certainteed CTSPC-2

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

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 34" 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.

MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to

ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2012, including supplement dated 2014 (AISI S100-12). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48

ATTACHMENT OF HANGER AND **BRACING WIRES:**

3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

FASTENERS AND WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-98 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: [Not applicable to project]

4.03 Power-Actuated Fasteners shall be: [Not applicable to project]

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 are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

TESTING: All field testing must be performed in the presence of the project inspector.

5.01 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 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.02 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.

LIGHT FIXTURES:

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

6.02 Surface-mounted light fixtures 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 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer of exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.

6.03 Not used.

6.04 Light fixtures weighing less than or equal 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.

6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one a each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

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 lb. shall have one (1) #12 gage 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 lb. but less than or equal to 56 lb. shall have two (2) #12 gage 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 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

OTHER DEVICES WITHIN THE **CEILING:**

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

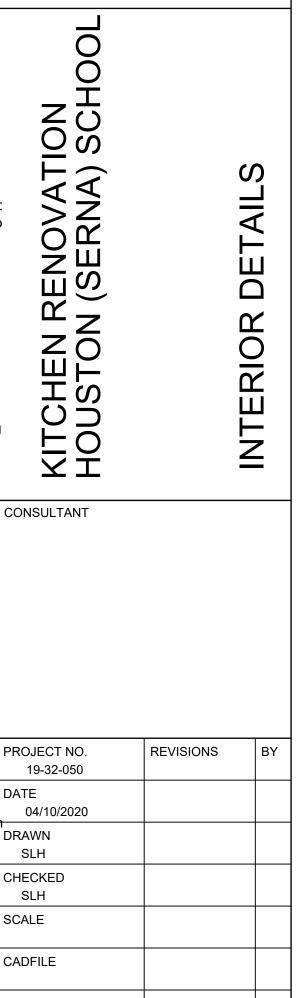
FILE NO. 39-50 APP NO. 02-118041

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP. 02-118041 INC: **REVIEWED FOR** SS 🗹 DI FLS 🗹 HESTACS 🗹 E DATE: 04/28/2020

> 50 4 730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212

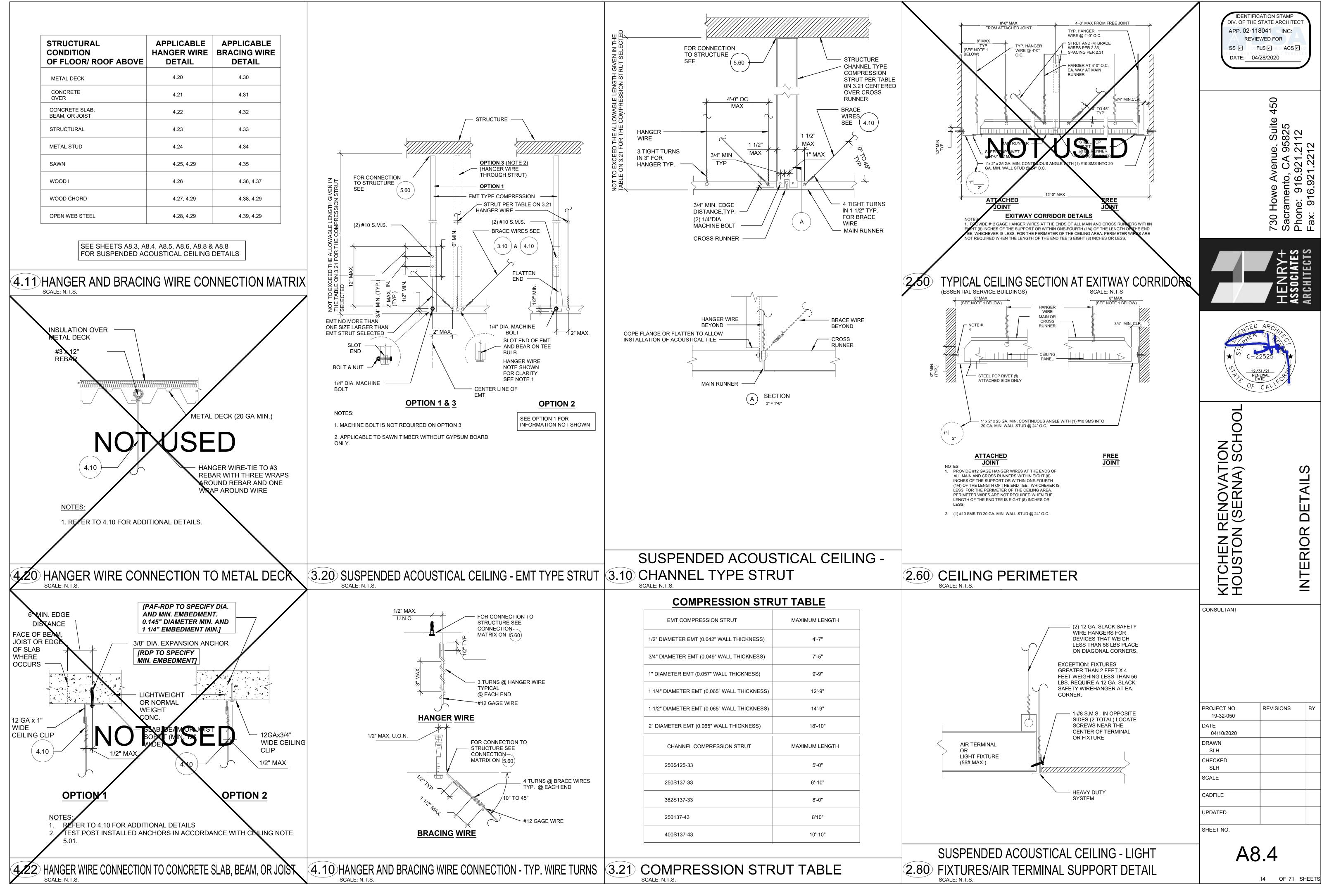


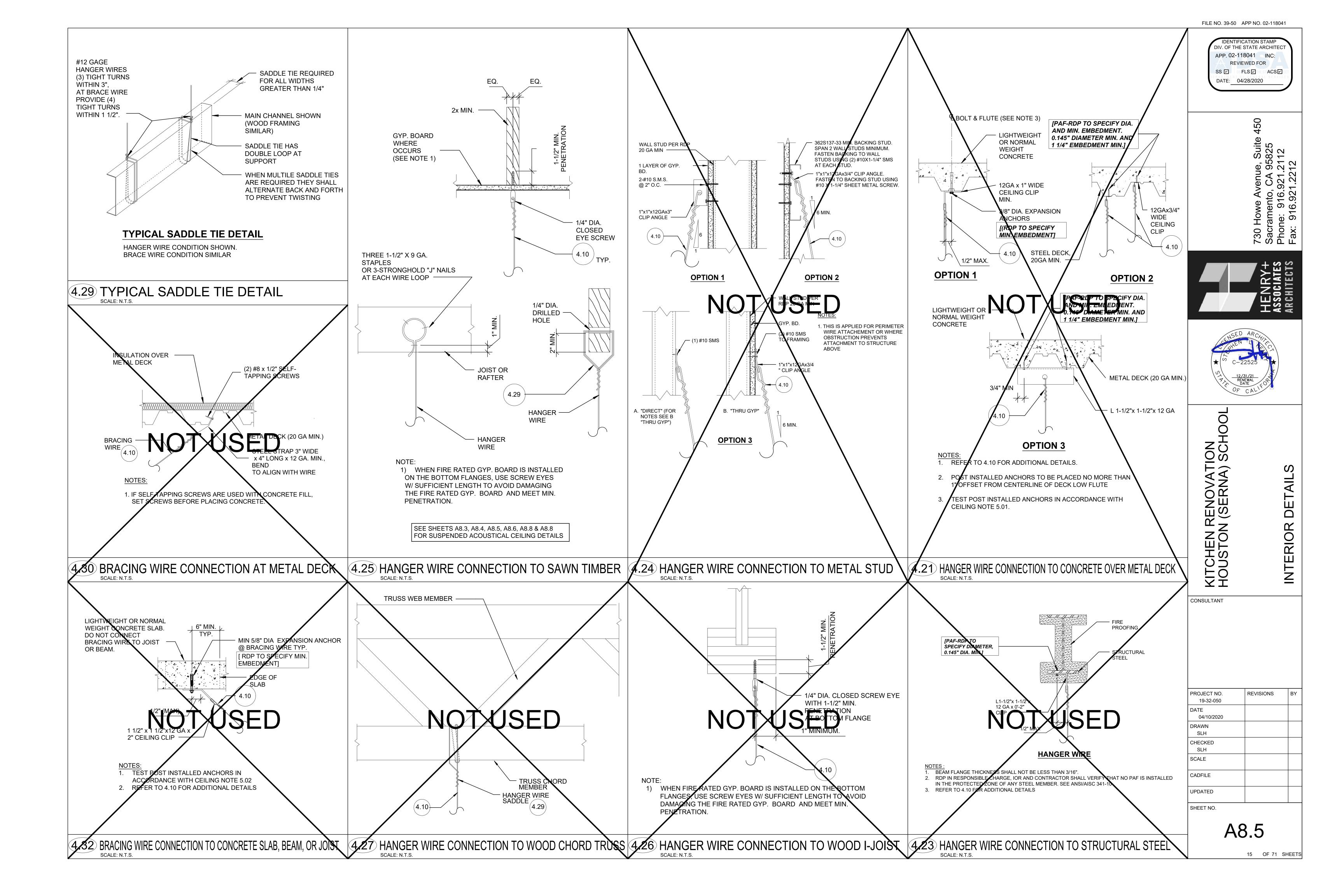


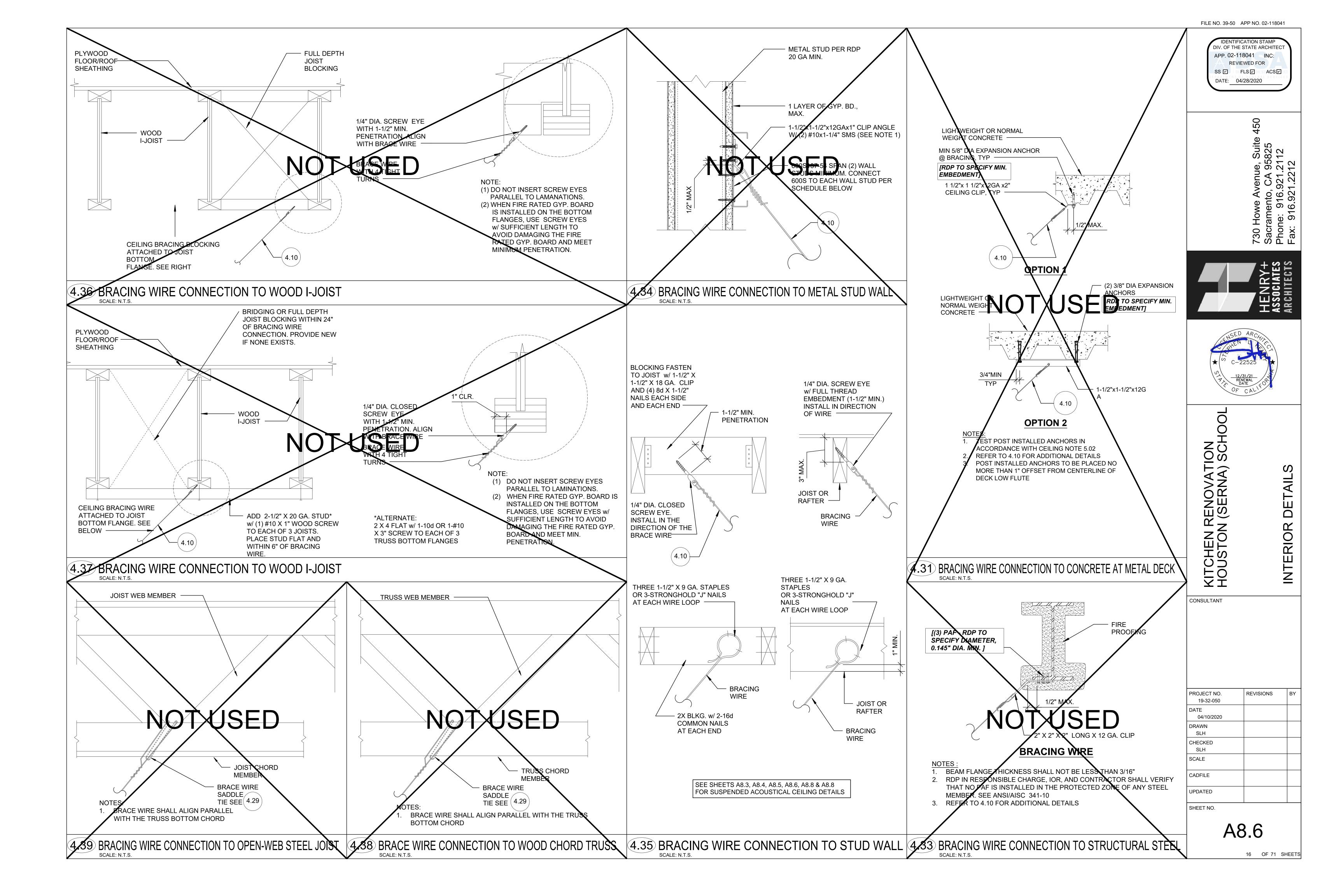


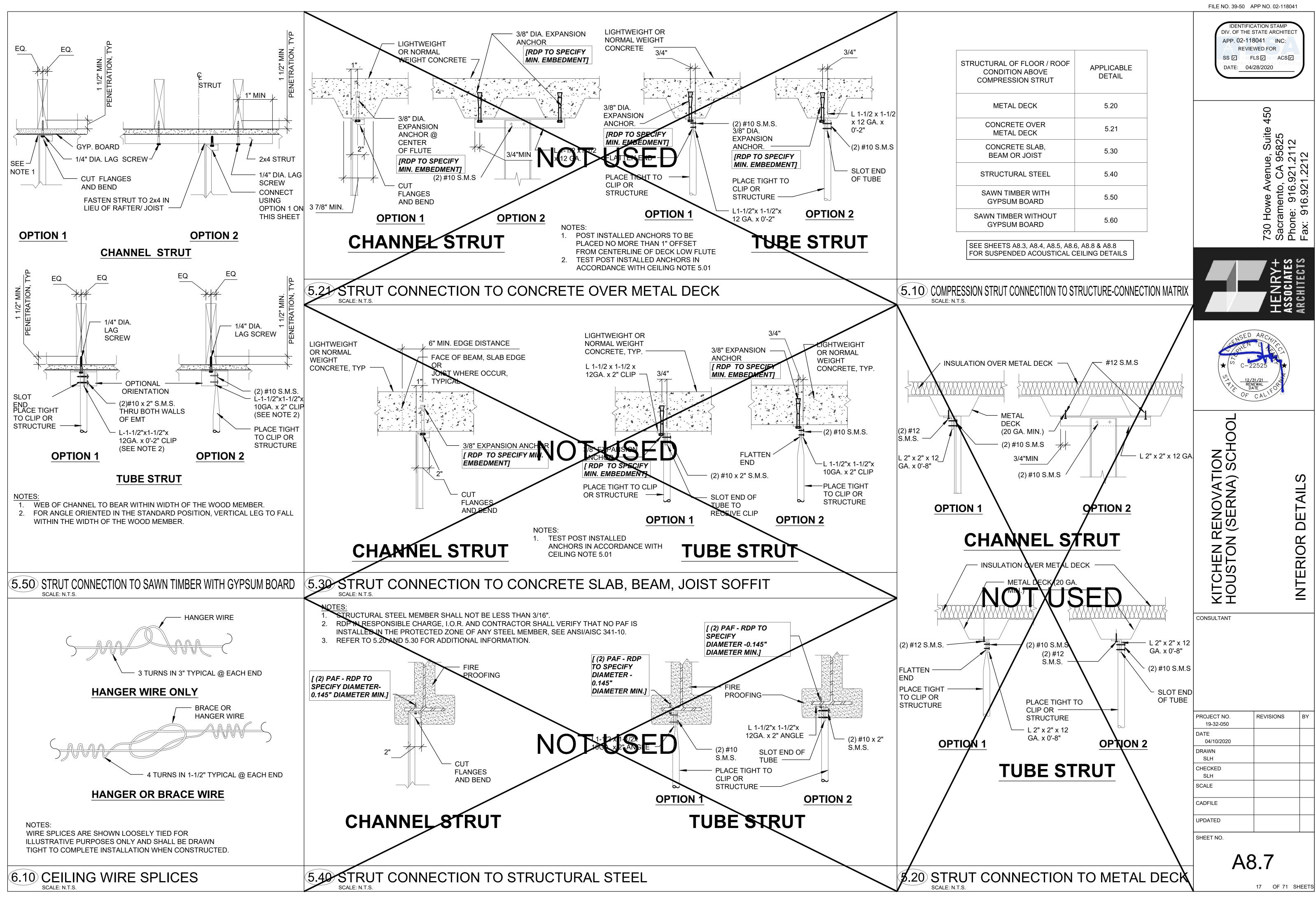
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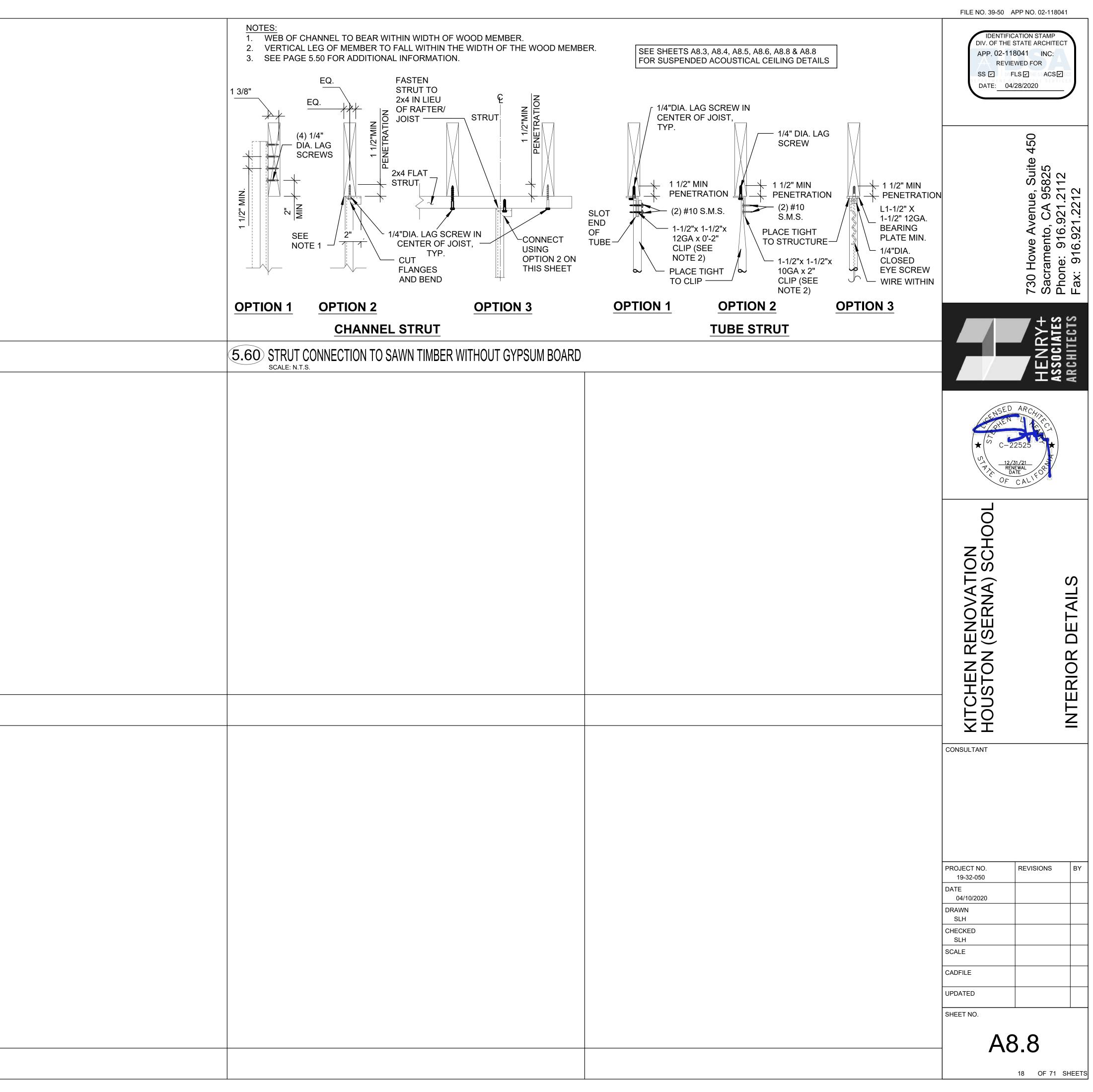
SHEET NO.











Bolt and Washer Notes

1. Provide washers under heads and nuts of all bolts and lags bearing against wood. 2. Installation of bolts, lags, screws and washers shall be in accordance with Title 24 Section 2304.10. 3. Washers shall be square plate steel or round malleable iron: A. $\frac{1}{2}$ ø bolt ----- 2"x2"x $\frac{1}{4}$ " or $2\frac{1}{2}$ øx $\frac{1}{4}$ " 5/8"ø bolt ----- 21/2"x21/2"x1/4" or 23/4"øx5/8"

- ³₄"ø bolt ----- 2³₄"x2³₄"x⁵₈" or 3"øx³₈" 78"ø bolt ----- 314"x314"x38" or 312"øx716" 1"ø bolt ----- 3¾"x3¾"x3%" or 4"øx½"
- F. Sill ₱ ABs ----- 3"x3"x¼", UNO. 4. All exposed washers shall be malleable iron, UNO. Upset (rolled)
- threads are not permitted. 5. Refer to Shear Wall Diagram & Legend for plate washer
- requirements at wood shear wall sill plate anchor bolts. 6. All bolts, nuts and washers in contact with pressure treated
- wood shall be hot dipped galvanized.
- ◆ Drilled-In Anchors Installation & Testing
- 1. Anchors shall be installed in accordance with the recommendations given in the ICC Reports listed below and the manufacturer's instructions. Expansion Anchors:
 - A. To Concrete Hilti Kwik Bolt-TZ (KB-TZ), ESR-1917
 - B. To CMU Hilti Kwik Bolt 3 (KB–3), ÉSR–1385 Epoxy Anchors: A. To Concrete Hilti HIT-HY 200, ESR-3187
 - B. To CMU Hilti HIT-HY 70, ESR-2682
- 2. Anchors shall be tested per all applicable requirements of the 2016 CBC & Evaluation Report (ICC-ES, ESR, IAPMO UES, etc.) 3. The following criteria apply for the acceptance of installed anchors. A. <u>Hydraulic Ram Method:</u> The anchor should have no observable
 - movement after 15 seconds at the applicable test load. For wedge type anchors, a practical way to determine observable movement is that the washer under the nut becomes loose. B. T<u>orque Wrench Method:</u> The applicable test for torque must
- be reached within ¹/₂-turn of the nut. 4. All anchors used in structural applications shall be tested. 50% of
- all anchors used in non-structural applications shall be tested per CBC Section 1910A.5. If any anchor fails the test, all anchors of the same type not previously tested shall be tested until 20 consecutive anchors pass, then resume initial testing frequency.
- 5. When installing drilled-in anchors in existing concrete or masonry, do not cut or damage existing reinforcing bars.
- 6. The testing of the anchors shall be done by the testing laboratory and a report of the test results shall be submitted to DSA and the Architect / Structural Engineer.
- 7. Substitution of an alternative manufacturer is subject to the approval of the Structural Engineer of Record and DSA.
- 8. Test expansion anchors to values listed below. Contact Structural Engineer for epoxy anchor test values and procedures. 9. Test equipment (including torque wrenches) is to be calibrated
- by an approved testing laboratory in accordance with standard recoanized procedures. 10. Testing shall occur at a minimum of 24 hours after the installation of the anchors.
- 11. All tests shall be performed in the presence of a Special Inspector per CBC Section 1910A.5.
- 12. Test proof loads for repair conditions are not part of these documents and will require a separate approval by the Structural Engineer of Record and DSA.

Concrete An	ichors		CMU Ancl	nors	
Expansion Anchors Hilti Kwik Bolt TZ ICC No. ESR-1917 May 1, 2019	Minimum Embed * (in)	Torque Proof Load (ft-lb)	Expansion Anchors Hilti Kwik Bolt 3 ICC No. ESR—1385 February 1, 2020	Minimum Embed (in)	Torque Proof Load (ft-lb)
3 ₈ "ø	21⁄4"	25	3∕8"ø	2½"	15
1⁄2"ø	35⁄8"	40	½"ø	3½"	25
5 ₈ "ø	4½"	60	5⁄8"ø	4"	65
3 ₄ "ø	5½"	110	3 ₄ "ø	4¾"	120

* - UNO on plans

♦ Inspection Notes

- 1. General: In addition to the inspections required by the current CBC the owner shall employ a Special Inspector during construction of the following types of work. All special inspections shall be performed in accordance to Chapter 17A of the current CBC. Submit the name of all Special Inspectors to the Division of the State Architect for approval prior to starting work requiring
- special inspection. 2. Refer to Chapter 17A for additional requirements of the Special
- Inspector 3. Special Inspector: All Special Inspectors shall have a minimum
- of 3 years experience in the specific material / trade being inspected.
- 4. Earthwork: A representative of the Geotechnical Engineer of Record shall be present during the grading, excavation and foundation construction.
- 5. <u>Specific materials / trades requiring special inspection:</u> See 'Structural Tests and Inspections' sheet and all applicable sections of the project specifications.
- A. Concrete - During the placing of reinforcing steel and inserts, during the taking of test specimens, and during the placing of all reinforced concrete including batch plant inspection.

- ◆ Carpentry Notes
- 1. Use DF No. 1 at 4x and smaller UNO. Use DF Select Structural at
- 6x and larger, UNO. Maximum moisture content = 19%, typical. All SP used for wall, roof and flooring is to be Structural 1, UNO. 2. Center ABs on 2x sill As equal to or less than 2x6. Place ABs @ 234" from exterior face @ 2x8 sills. Use 2 rows of ABs at 234" from ea
- edge @ sills > 2x8. For "shot" sills see details. 3. All wood sills to be pressure treated douglas fir. Sill plate anchor bolts are to be F1554 Gr 36, cut threads. Use 5%"øx12" long bolts (18" at curbs) w/4" max projection & 8" min embed below T.O. slab. Bolts to be placed no more than 12" or less than $4\frac{1}{2}$ " from ends of sill pieces & not over 4'-0'' cc between bolts. Holes over $\frac{1}{3}$ the \mathbb{R} width and notches in sills are considered ends. Use 2-anchor bolts minimum per sill P.
- 4. All studs shall be 2x6 @ 16"cc UNO. 5. Provide continuous 2x stud width blocking between studs at mid-height of stud or so spaced that the unbraced length of studs does not exceed 10'-0''. Provide blocking in all walls at ceiling lines.
- 6. Where wood studs or nailer abut steel, concrete or masonry, fasten to same with 5_8 " ϕ bolts at 4'-0" cc. Use 8" long bolts in concrete or masonry. If heads of bolts will be exposed, use welded studs in place of bolts for wood to steel connections. Dap 1" maximum on 3x and larger as required (no dap allowed on 2x's). Provide SPIN min at all nailers, typ UNO.
- Lap wall plates at corners and intersections.
- 8. Provide 2x solid blocking between joists or rafters over supports. 9. For roof joists or rafters, 814" deep or deeper, provide 2x3 crossbridging at not over 10'-0"cc (8'-0"cc for 2x12). For floor joists $4\frac{1}{4}$ " deep or deeper, provide X-bridging at not over $8^{\circ}-0^{\circ}$ cc. Alternate metal X-bridging is acceptable.
- 10. Bolt holes in wood or steel shall be $\frac{1}{16}$ larger than bolt diameter. 11. All bolts, expansion anchors and lag screws shall be provided with metal washers under the heads and nuts which bear on wood. Lag screws and wood screws shall be screwed and not driven into place. All bolts and lag screws shall be tightened on installation and retightened before closing in or completion of the job.
- 12. Provide shaped and dapped pieces as shown on drawings. Dap 1" max on 3x and larger members (no dap allowed on 2x members).
- 13. Window and door frames shall be firmly secured in place to blocking between jambs and rough openings at top, bottom and at a maximum interval of 24" between. Nail blocking to rough frame with 16d finish nails at 8"cc staggered, set 1/2".
- 14. All cabinets, lockers, etc. shall be firmly secured in place by 4-8d minimum nails per stud thru plywood back except if cabinets are wall hung, #14 wood screws shall be used in place of nails penetrating the studs 2" minimum. See Architectural drawings for additional anchorage details.
- 15. All joist hangers are to be face-mounted typical, UNO on plans or details. See 9/S0.2. 16. Installation of bolts, lags, screws and washers shall be in accordance with
- Ch. 10 of the AF&PA National Design Specifications. 17. Nails, timber rivets, wood screws, lag screws, nuts, and washers in contact with pressure treated or fire retardant treated wood shall be hot dipped
- galvanized minimum. 18. All other fasteners in contact with pressure treated or fire retardant treated
- wood are permitted to have mechanically deposited zinc coating, Class 55 min. 19. Connectors in contact with pressure treated or fire retardant treated wood shall comply with manufacturer's recommendations. In absence of
- manufacturer recommendations, type G185 zinc coated galvanized steel min. 20. All bolted connections, including sill plate AB's & holdown AB's shall be retightened immediately prior to installation of finishes.

♦ Nailing Notes

- 1. All nails for structural work shall be common wire nails unless noted otherwise. 2. Nails shall be spaced not less than 11 diameters on center. Edge or end distances shall not be less than 6 diameters. Nail holes shall be
- sub- drilled where necessary to prevent splitting of wood. Sub-drill not to exceed 3/4 of the shank diameter 3. Where plaster or gyp. bd. ceilings occur, ceiling stripping nails shall be
- annular grooved shanks, "stronghold" or approved equal. Use 2-16d min at each contact. 4. Nailing not noted on this sheet or on details elsewhere, shall be a
- minimum of 2 nails at each contact using 8d nails thru 1x's and 16d thru 2x's. 5. Minimum nailing shall be:
- A. Studs and posts @ top and bottom to bearing: 2x6 & smaller 2-8d TN, ea side or 3-16d

	end nails
	2x8 3-8d TN, ea side or 4-16d
	end nails 2x10 & larger
	end nails 3x6 (sub-drill)
	end nails 3x8 & larger (sub-drill) 4-8d TN, ea side or 5-20d
	end nails
B.	Joists or rafters: to side of stud up to 8" 3-16d each additional 4" 1-16d additional to bearing
C.	Blocking: to joists, rafters or blkg 2—10d TN, ea side, ea end
	to bearings ea side, ea end,
	staggered to studs
D	Sheathing:
2.	floor -¾" plywood 10d at 6"cc at edges of sheets and over all walls (SPPN), 10d at 10"cc at
	all interior contacts (SPIN) wall —½" plywood
	interior contacts (SPIN) roof —½ or 5%" plywood 10d at 6"cc at edges of sheets and over all walls (SPPN) 10d at 12"cc at all interior contacts (SPIN)
E.	Ribbons and ledgers to studs: 1x ribbons
F.	Double top plates: upper plate to lower plate 16d at 16"cc staggered corner or intersection
G.	Minimum plate laps: 4'-0" 12-16d ea side
Н.	Multiple studs: stagr for over 4" widths 16d @ 12"cc
I.	Built—up beams: 10" or less
J.	Double joists: not blocked apart
	blocked apart with 2x blocking at 24"cc 2—20d ea end, ea block
K.	T&G decking:

nail each 2x T&G board to each bearing contact with 1-16d straight nail and 1-16d slant nail thru tongue.

6. At metal strap ties, fill all holes with nails UNO. Use nail size & type as specified in allowable load table in the most current Simpson cataloa. Where two sizes are given, use larger size. All nails exposed to weather

shall be hot dipped galvanized. 7. All nails driven into pressure treated wood shall be hot dipped galvanized.

◆ Concrete & Reinforcing Steel Notes

		struction shall conform to ACI 318–14. Il be as follows:						
۷.	Class A:	Use in foundations and other concrete of the like nature where minimum thickness equals or exceeds 8". f'c = 3500 psi @ 28 days max agg size = 11/2"						
	Class B:	max w/c ratio = 0.55 entrained air = 3-5% slump = 3½"±1" Use in structural concrete where minimum thickness						
		is less than 8", excluding slab on grade. f'c = 3500 psi @ 28 days max agg size = 1"						
		max w/c ratio = 0.55 entrained air = 3-5%						
	Class C:	slump = 4"±1" Use in interior slab on grade. f'c = 4000 psi @ 28 days max agg size = 1" max w/c ratio = 0.45 slump = 4"±1"						
7	Comont shall	include specified water-repellant admixture						
3. 4.		conform to ASTM C—150, type I or II. regate: Natural sand and aggregate shall conform to						
5.		nall conform to ASTM A615 Grade 60, UNO.						
6.		inforcing steel shall conform to AWS DI.4 using proper						
7.	low hydrogen electrodes. Tack welding to rebar is strictly prohibited. Reinforcing steel shall be fabricated and installed according to Manual of Standard Practice of Reinforced Concrete Construction by the							
_	Concrete Reir	nforcing Steel Institute.						

- 8. Wire fabric shall conform to ASTM A-185. 9. Dimensions shown below for location of reinforcing are to the face of reinforcing and denote clear coverage. Concrete coverage shall be as follows UNO on drawings.
 - A. Concrete deposited directly against ground except slabs
 - B. Concrete exposed to ground but placed in forms
 - Slabs on the ground position in center of slab D. Not exposed to weather nor in contact with earth: elevated slabs, walls and joists 34" beams, girders and columns

(main bars, ties and spirals) 11/2" 10. Lap splices in concrete: 74 bar dia, 36" min, unless otherwise shown for #6 bars and smaller. 93 bar dia min for #7 and larger bars. Splices in adjacent bars shall be at least 5'-0'' apart. Bars may be wired together at splices or laps. 11. General:

- A: No pipes or ducts shall be placed in concrete slabs or walls unless specifically detailed on the Structural drawings. B: Refer to Architectural, Structural, Civil, Electrical and Mechanical drawings for all molds, grooves, ornaments clips, and grounds to be cast in concrete.
- 12. The exposed concrete face at a horizontal construction joint shall be kept continuously moist from time of initial set until placing of concrete. Thoroughly clean contact surface by chipping entire surface not earlier than 5 days after initial pour to expose clean, hard aggregate solidly embedded, or by an approved method that will ensure equal bond, such as green cutting. If contact surface becomes coated with earth,
- sawdust, etc, after being cleaned, rechip entire surface. 13. Remove all debris from the forms before placing any concrete. 14. Reinforcing dowels, bolts, anchors sleeves etc. to be embedded in concrete shall be securely positioned before placing concrete. Obtain approval of all affected trades prior to placing concrete. 15. Maximum free fall on concrete should be 4'-0''. If necessary, provide
- openings in forms to reduce fall.
- 16. Walls shall be placed in horizontal layers of 2'-0''. 17. No wood spreaders or wood stakes allowed in areas to be concreted.
- 18. Drill through steel columns and beams to pass continuous reinforcing (1"ø max). 19. Concrete mix design shall be prepared by an independent laboratory
- approved by the school district. 20. Welded wire mesh shall be lap spliced two squares minimum in each
- direction. 21. Notify the Structural Engineer 48 hours prior to placing concrete. 22. Reinforcing steel not specifically detailed shall be per ACI 315-17
- Detailing Manual. 23. All rebar to be welded shall be provided with mill certificates showing chemical analysis and shall be continuously inspected by a qualified special welding inspector. All preheating and welding shall be done by welders certified to weld reinforcing bars in accordance with ANSI/AWS D1.4-11 standards. Use only A706 grade rebar for applications involving welded rebar.

◆ Remodeling and Addition Notes

- 1. It shall be the Contractor's responsibility to make himself familiar with all existing conditions, any existing building plans, and all site conditions which may affect his work. He shall ascertain the extent of demolition work required to complete the structure per
- new plans and be responsible for its safe completion. 2. When existing building plans are available, the Contractor shall keep a full set of such plans at the job site during construction. If any existing conditions are discovered which deviate from these plans or from the new plans, the Contractor shall notify the Architect and Structural Engineer for instruction prior to proceeding with work in the affected area.
- 3. The Contractor shall match existing heights, lines, materials, and conditions unless noted otherwise on new plans. 4. The intent of these drawings and specifications is that the work of
- the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work.

♦ Symbols Legend Detail and Elevation Callout: Sheet Numbering System: Discipline Indicates that detail 2 will designation \S4.1 be found on sheet S4.1 Drawing type Indicates that detail 2 will designation 2 be found on the same — S2.2.1 sheet Section or elevation indicating that Detail 2 will be found on - Sheet number Sheet S3.1. Arrow indicates beyond zero ∖S3.1 viewing direction Building unit designation Structural Grid Identifier: Miscellaneous Symbols: Grid at face of framing Work point, control point or datum ---- Grid at center of framing Material Legend: Indicates plywood Indicates a continuous wood member in section Indicates metal Indicates solid wood blocking in section Indicates sand Indicates earth Indicates gravel/ Indicates concrete aggregate base The following represents a permanent address numbering system. Details and sections may be used together on the same sheet.

13	9	5	1	D	А
14	10	6	2	_	_
15	11	7	3	E	В
16	12	8	4	F	С
	Deto	ails		l Building S Wall Framir	ections and ng Elevations

♦ Design Criteria

- 1. Building Code 2016 California Building Code 2. VERTICAL LOADS:
- = 20 psf = 20 psf (Reducible) Roof Dead Load Roof Live Load

◆ Foundation Notes

- 1. The Contractor shall give the Division of the State Architect and the Structural Engineer a minimum of 48 hours notice before the reinforcing
- and/or forms are placed in excavated footings. 2. Footings shall bear on firm, dry undisturbed soil, depths indicated on plans shall be the minimum depth of footing.
- 3. Excavations shall be cleared of all debris. Standing water shall be removed.
- 4. All foundations are shown and dimensioned as being formed. Foundations may be placed in neat excavations provided footings are increased 1" in width at each vertical face, for a total increase of 2" in width overall. 5. At the discretion of the Contractor, foundations can be over-excavated
- in order to place lean mix concrete to facilitate debris and standing water removal. 6. Contractor has the option to use threaded rod (fy=36ksi min) w/dbl
- nuts @ holdowns and sill bolts. Embedment of holdown bolt is considered as the length projection below the lowest construction joint. 7. Construction joints in foundation shall not occur, except as approved in writing by the Structural Engineer and DSA.
- 8. Soils Report by: Terracon
- File No.: NA 185174 Dated: December 14, 2018 9. Bearing soil is classified as dense silty sand with an estimated allowable soil pressure of 2000 psf for total load (including wind and seismic).



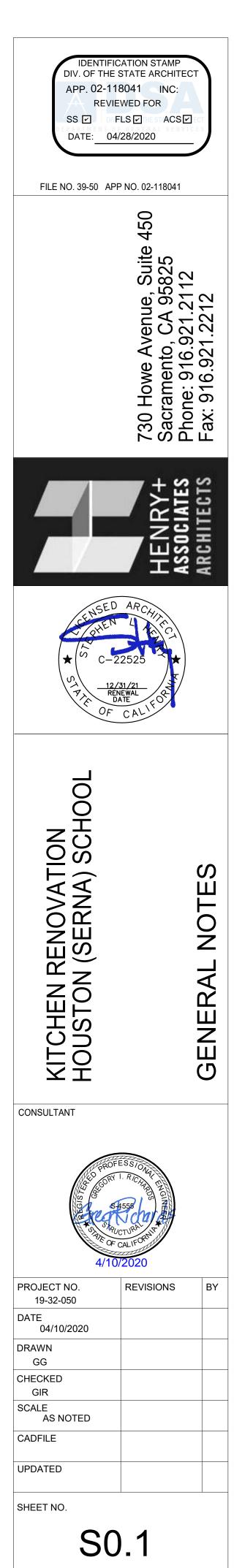
1. All construction shall conform to 2016, Title 24 of the California Code of

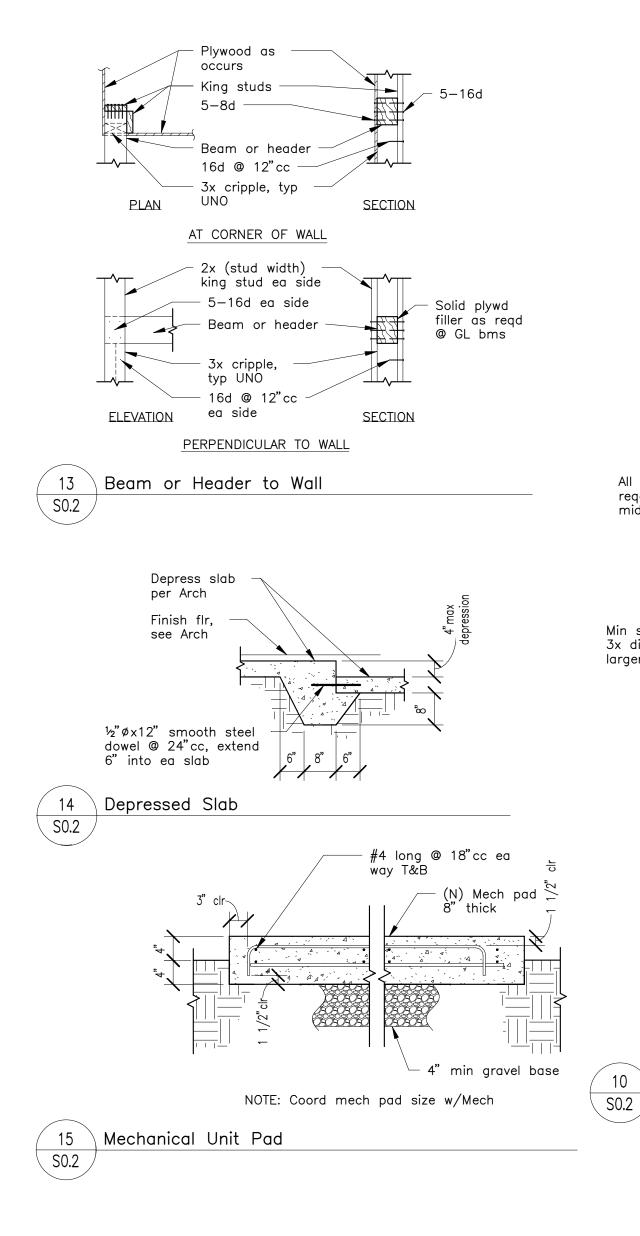
- Regulations and all other applicable codes and regulations. 2. General Notes, Plan Notes and Typical Details shown are typical and shall apply unless noted otherwise in the contract documents.
- 3. If conflicting information is shown on construction documents, the most restrictive requirement shall apply. 4. Overall wall dimensions are typically from & of wall to & of wall at steel
- framed buildings and from face of wall to face of wall at wood framed,
- concrete tilt-up and CMU buildings.
- 5. Contractor shall verify all dimensions and elevations on the job including existing construction. 6. Prior to fabrication, shop drawings shall be submitted to the Structural Engineer for review.
- Shop drawings: Contractor agrees that shop drawing submittals processed by the Engineer are not change orders and that the purpose of shop drawing submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design intent by indicating which material he intends to furnish and install and by detailing the fabrication and installation method he intends to use.
- 7. Contractor shall verify all dimensions, elevations and property lines etc., on the 8. Contractor shall notify the Architect and Structural Engineer where a conflict
- occurs on any of the contract drawings or documents. Contractor is not to order material or construct any portion of the building that is in conflict, until conflict is resolved with the affected parties.
- 9. Contractor shall be responsible for the design and construction of all foundation 10. Contractor shall be responsible for the design and construction of all shoring and temporary bracing.

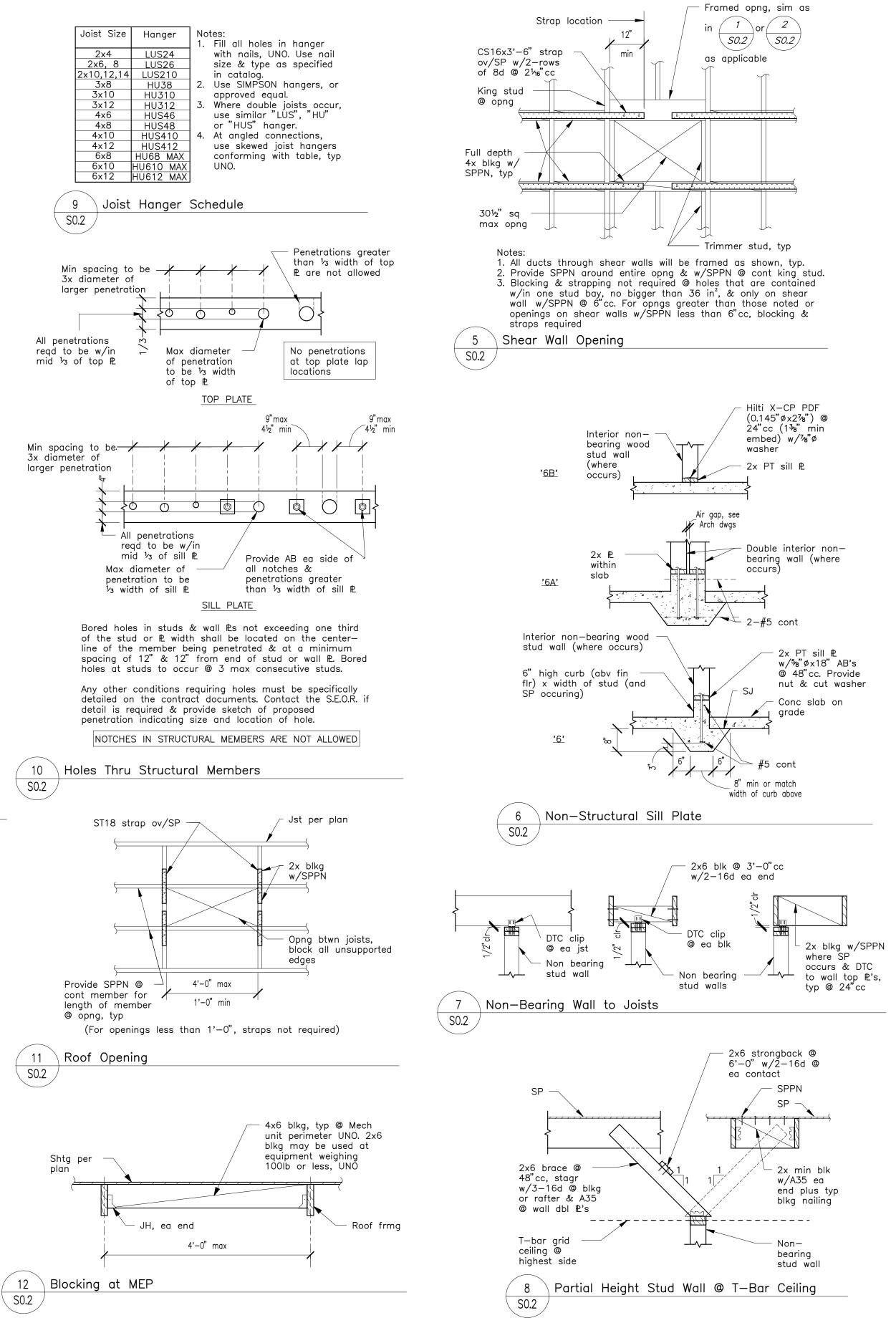
Abbreviations

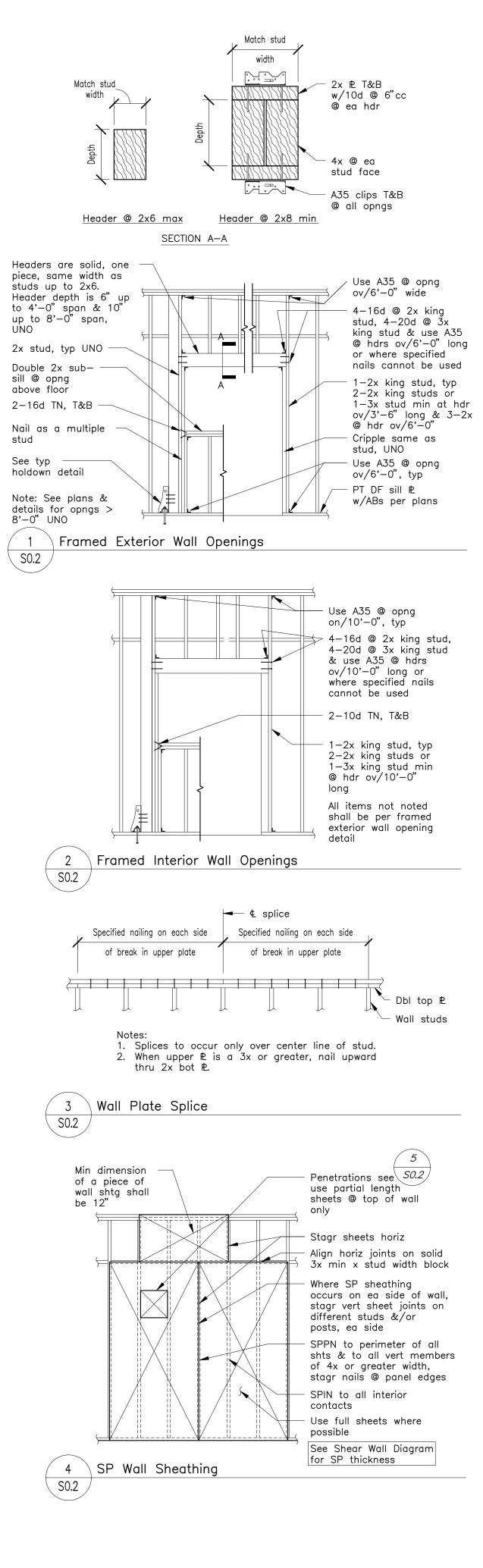
abv	above
AFF	Above Finish Floor
addl	additional
agg	aggregate
alt	alternate
AB	Anchor Bolt
&	and
L	angle
Arch	Architect/ural
@	at
bm	beam
blw	below
btwn	between
blk	block
blkg	blocking
bot	bottom
B.O.	Bottom Of (Conc, Ftg, etc)
BF	Braced Frame
brcg	bracing
bldg	building
CBC	California Building Code
C	Camber
CIP	Cast In Place
clg	ceiling
¢	center line
cc	center to center
ctrd	centered
C	channel
clr	clear
col	column
CJP	Complete Joint Penetration
conc	concrete
CMU	Concrete Masonry Unit
CTUP	Concrete Tilt-up Panel
conn	connection
CJ	Construction/Cold Joint
cont	continuous
contr	contractor
ctsk	countersink
diag	diagonal
DS	Diagonal Sheathing
ø	diameter
dim	dimension
dbl	double
DF	Douglas Fir
dn	down
dwgs	drawings
ea	each
EF	Each Face
EW	Each Way
E.O.	Edge Of (Conc, Ftg, etc)
Elec	Electric/al
elev	elevation
embed	embedment
EN	End Nail
eq	equal
equip	equipment
(E)	existing
EJ	Expansion Joint
ext	exterior
F.O	Face Of (Conc, Ftg, etc)
FF	Finish Floor
flr	floor
ft	foot/feet
ftg	footing
fdn	foundation
frmg	framing
ga	gage
galv	galvanized
GT	Girder Truss
GL	glu—lam
gr	grade
gyP	gypsum wall board
hgr	hanger
HWS	Headed Welded Stud
hdr	header
ht	Hight
HSB	High Strength Bolt
HD	Holdown
HSS	Hollow Structural Shape
horiz	horizontal
info	information
ID	Inside Diameter
int	interior

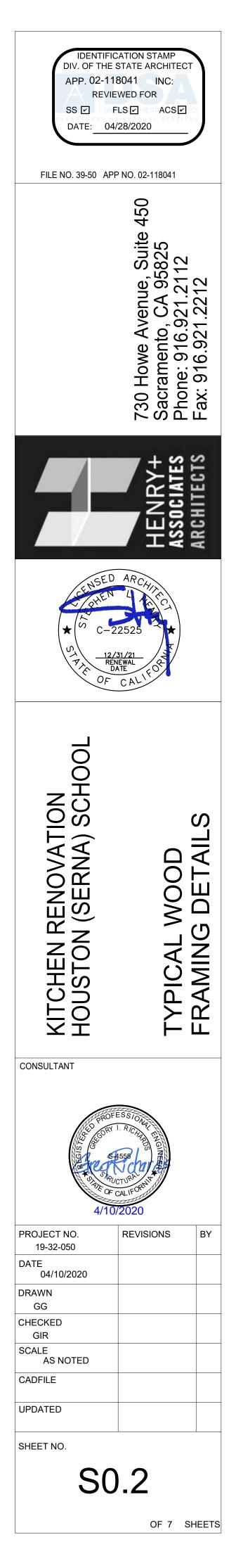
jt	joint
jst	joist
JH	Joist Hanger
ksi	Kips per Square Inch
LS	Lag Screw
Iwt	light weight
Iong	longitudinal
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
MB	Machine Bolt
mfgr	manufacture/d/r
max	maximum
Mech	Mechanical
mtl	metal
min	minimum
NA	Neutral Axis
(N)	new
NC	No Camber
nom	nominal
nwt	normal weight
NTS	Not To Scale
#	number/pounds
opng	opening
OH	Opposite Hand
OD	Outside Diameter
ov/	over
PJP	Partial Joint Penetration
pen	penetration
d	penny
perp	perpendicular
pc	piece
P	plate
plumb	Plumbing
plywd	plywood
psf	Pounds per Square Foot
psi	Pounds per Square Inch
lbs	pounds
PDF	Powder Drive Fastener
PCC	PreCast Concrete
PT	Pressure Treated
proj	projection
R	radius
RWL	Rain Water Leader
reinf	reinforce/ing/ment/d
reqd	required
rf	roof
RO	Rough Opening
sect shtg SMS sim SJ spcg sq stagr std stl stiff struct SP SPIN SPPN	section sheathing Sheet Metal Screws similar Slab Joint spacing square stagger/ed standard steel stiffener structure/al Structural Plywood Structural Plywood Interior Nailing Structural Plywood Perimeter Nailing
thk thrd TN T&G T&B TFJH T.O. tran TWS typ	thick threaded through Toe Nail Tongue and Groove Top and Bottom Top Flange Joist Hanger Top Of (Conc, Ftg, etc) transverse Threaded Welded Stud typical
UNO	Unless Noted Otherwise
vert	vertical
wt	weight
WWF	Welded Wire Fabric
w/	with
WS	Wood Screw
WP	Work Point

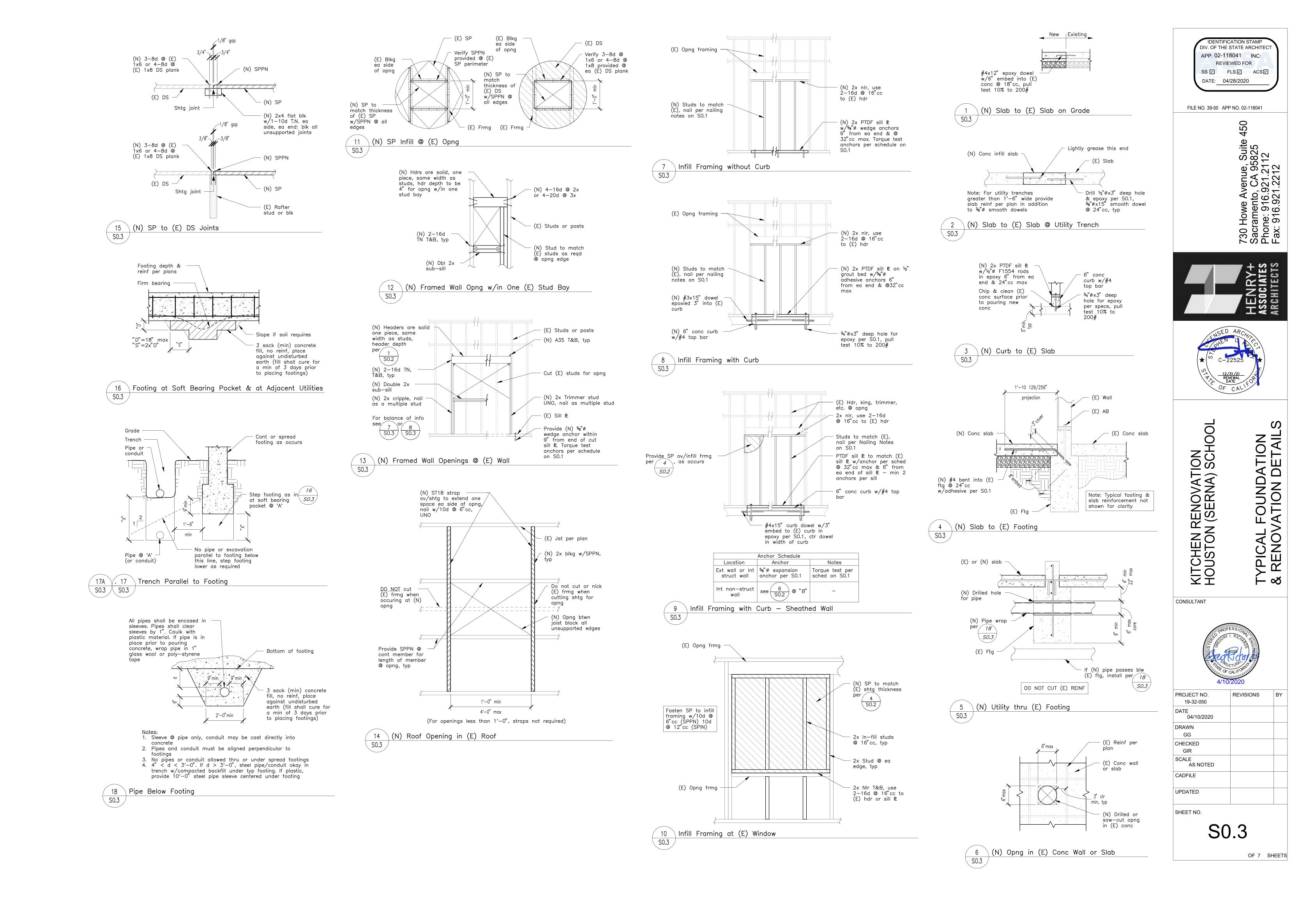


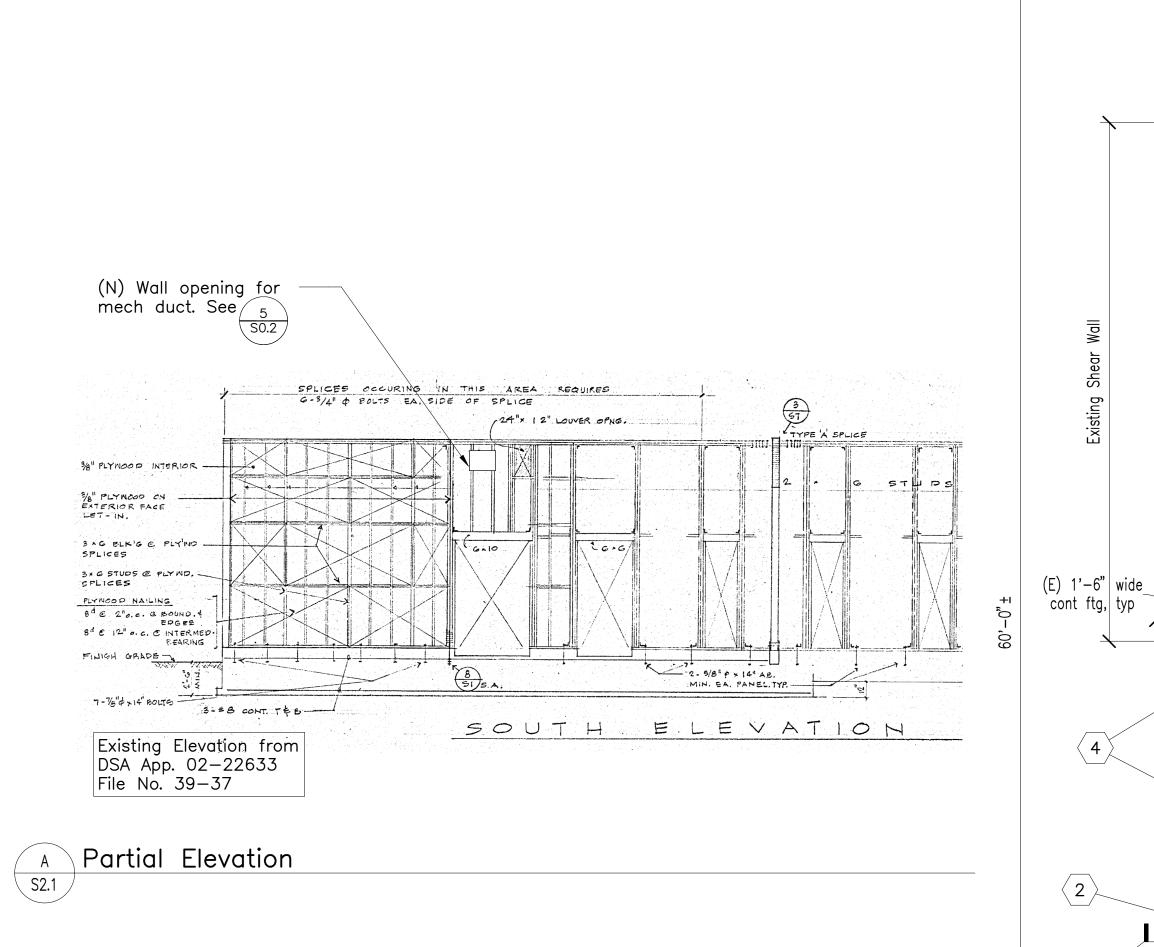


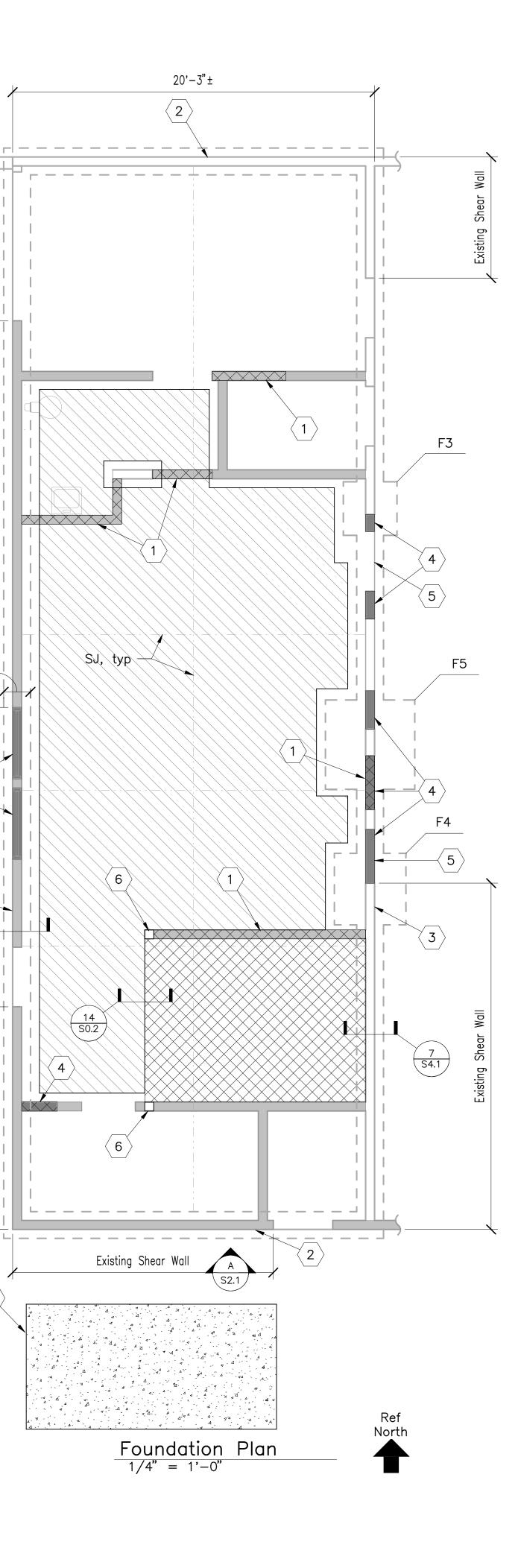












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4 S4.1

(7)

Foundation Plan Legend and Notes

	(E) Structural stud wall on 6" high curb on line footing
	(E) Structural stud wall on line footing
XXXX	(N) Non-structural stud wall on 6" high curb
	Non-structural wall per plan
_	(N) Wall infill w/2x6 @ 16"cc per
	Extent of slab removal and installation of new depressed slab
	Slab joint per 1/S0.2
F1	(E) Spread footing w/size per footing schedule
	Extent of (E) slab removal. Provide 6" clearance for edge of (E) line footing and spread footings

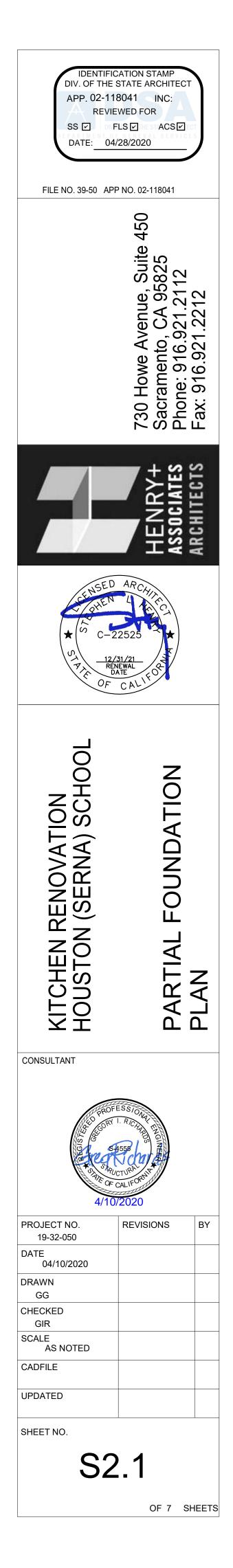
<u>Notes:</u>

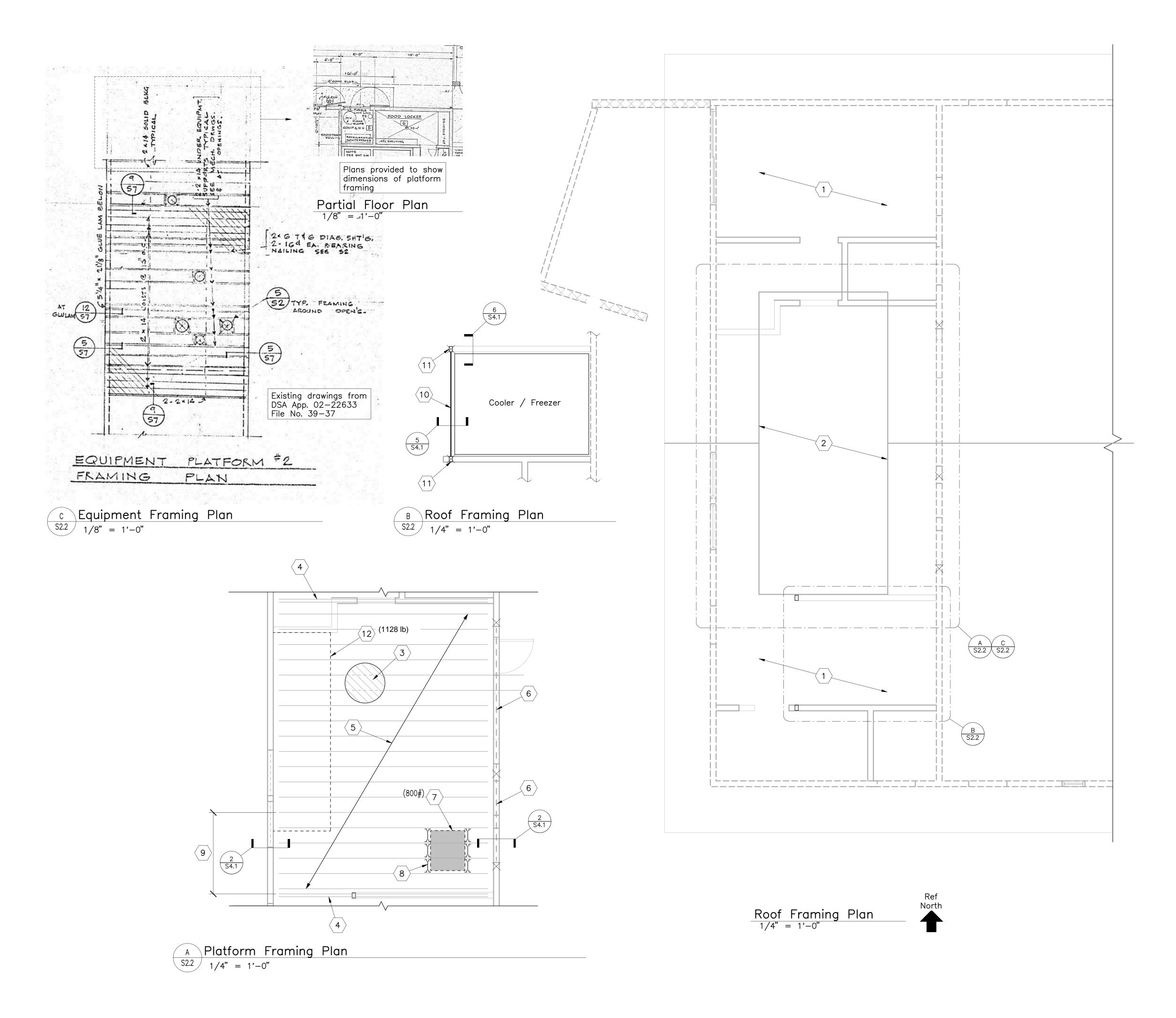
- All interior replaced slabs are to be 5" thick w/#4 ea way @ 18"cc ov/15 mil vapor barrier ov/5" gravel.
 Verify & coordinate all dimensions & elevations w/Arch. Stud walls are 2x6 @ 16"cc unless noted otherwise (UNO).
- All exterior stud walls are fully sheathed w/½"
 All exterior stud walls are fully sheathed w/½" Structural Plywd (SP). Interior structural stud walls are sheathed w/½" SP as shown on plan.
 Non-bearing interior stud walls without curbs have "shot" sills per 6/S0.2 & are not shown on these
- plans, see Árch Áwgs. 5. See Arch for special details @ thresholds, metal frames, depressed slabs, sloped slabs, floor drains, etc... Depress slabs @ ceramic tile floors per Arch. 6. Exterior slabs are not shown on these plans, see
- Arch & Civil drawings. 7. No excavations shall be started until struc tests &
- inspections on prior site work contract have been accepted by DSA.
- 8. All utiliites that impact foundations must conform to the stepped footing details on Sheet S0.3.

Foundation Plan Sheet Notes

- (N) 6" high concrete curb (1)
- 〔2 〉 (E) 3/8" SP @ exterior face of wall
- $\langle 3 \rangle$ (E) ¾" SP each side of wall
- **(4**) (N) Wall infill. See detail 7-10/S0.3
- 5 Provide opening in wall to pass HVAC duct. See detail 5/S0.2
- Fasten (N) post to (E) sill PL w/LTP4 on each side. Provide 3—16d T.N. @ each 2x stud attached to post $\langle 6 \rangle$
- (N) Approx. 7'-0"x14'-0"x8" thick mechanical pad. See detail 15/S0.2, coord specific location relative to (E) building w/Mech dwgs $\langle 7 \rangle$

(E) Footing Schedule												
Mark	Length	Width	Depth									
F4	3' – 0"	3' – 0"	1' – 6"									
F5	4' – 0"	4' - 0"	1' – 6"									
F6	5' – O"	5' – 0"	1' – 6"									





Roof Framing Legend and Notes

 (E) Bearing stud wall extending beyond platform
(E) Bearing stud wall extending to bottom of roof
 (E) Non-bearing or parapet wall extending beyond roof
 (E) Non-bearing wall extending to bottom of roof
 (E) Beam or header @ roof level
 (E) Beam or header below roof level

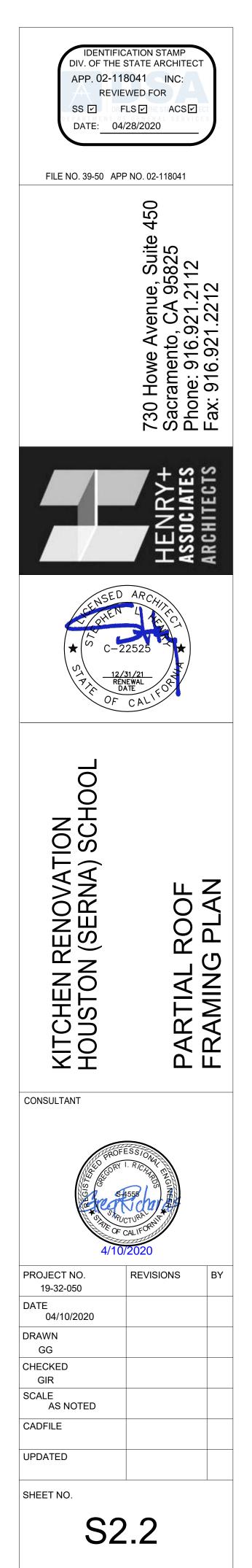
<u>Notes:</u>

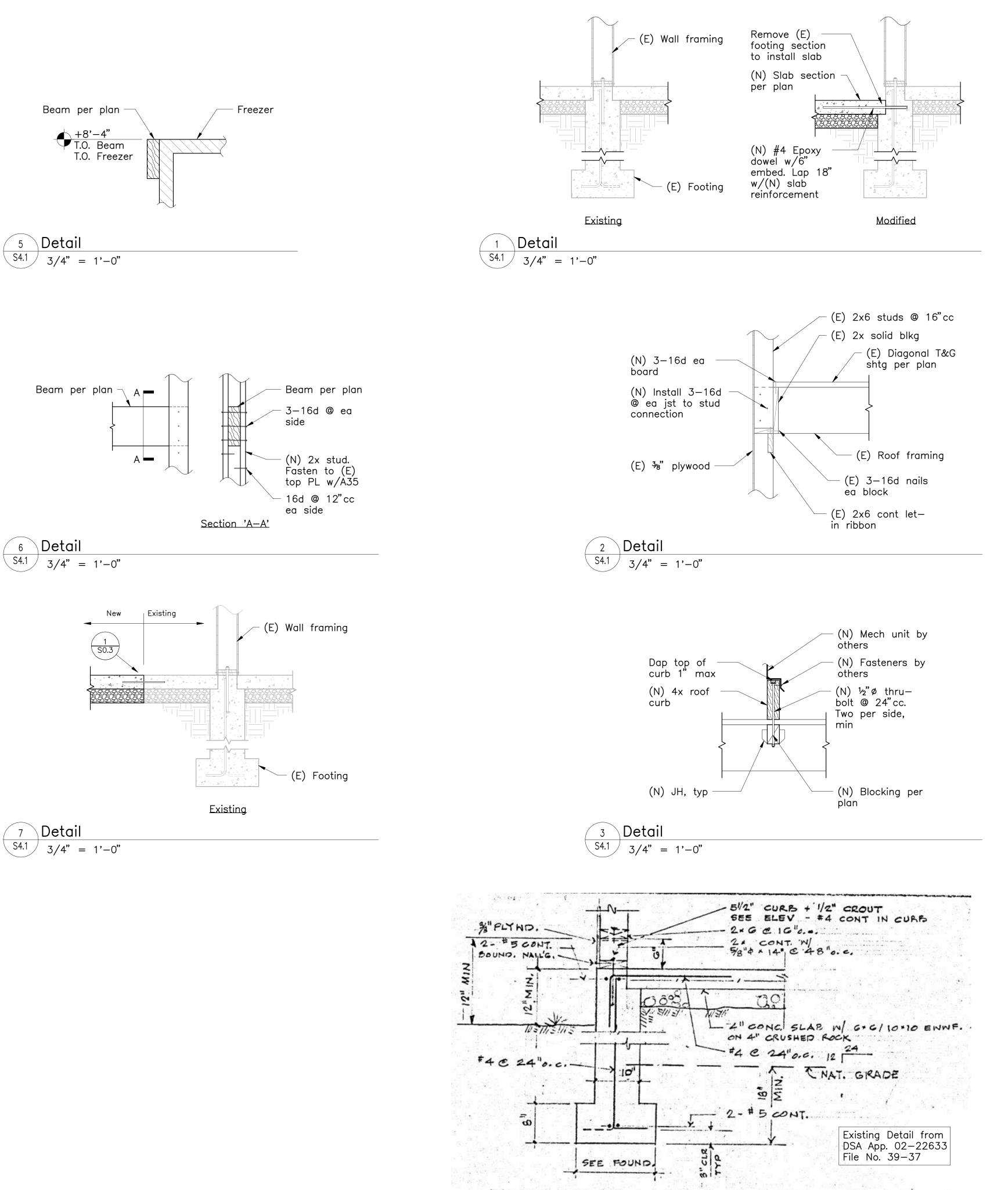
- All roof openings are not shown. See Arch, Mech, Elec & 14/S0.3 for roof framing. Place Mech & Elec units as to avoid cutting frame for openings.
 Opening in stud walls to be framed per 13/S0.3.
 Framing hardware is from Simpson Catalog C2019.
 All joists, beams, etc... are to have full bearing @ £'s, beams & all hardware.
 Framing for Mech Units: 4x beams shown are in addition to the typical joist framing. Provide 4x6 min blkg between joists and beams under the ends of units and attach blkg with a joist hanger to each end. to each end.

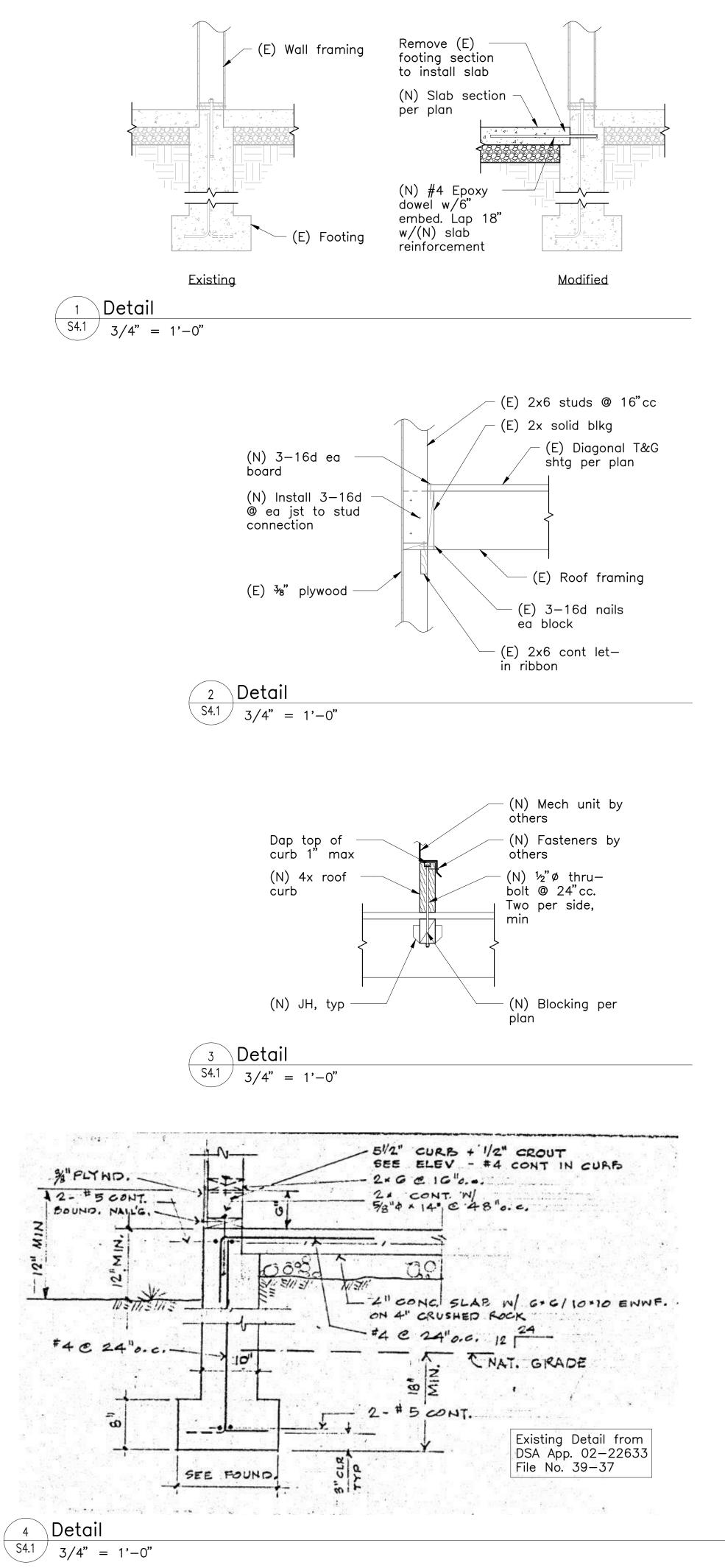
Roof Framing Plan Sheet Notes

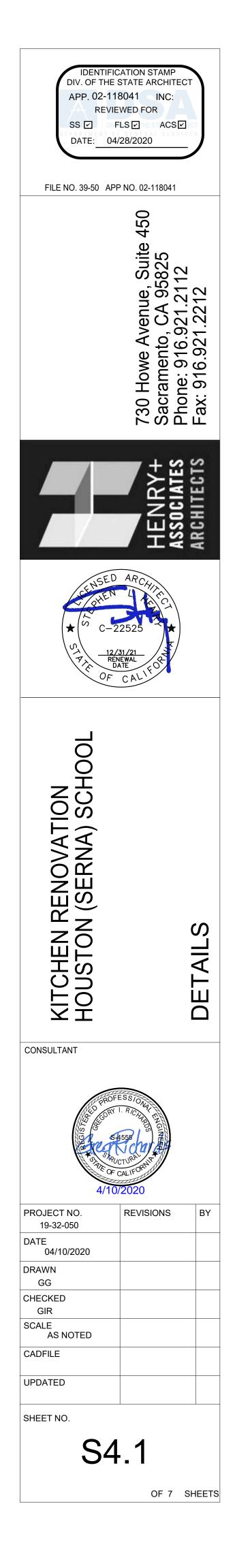
$\langle 1 \rangle$	(E) Roof framing to remain, unaltered
2	(E) Platform framing
3	(E) 2x6 T&G diagonal sheathing
4	(E) 2-2x14
5	(E) 2x14 roof joists @ 16"cc
6	(E) GL5¼x21⅛, blw
(7)	(N) Mechanical unit, max weight shown in parentheses
8	Provide 4x6 blkg @ unit perimeter. Provide JH @ ea end to (E) roof joist. Provide anchorage per 3/S4.1

- $\Bigl\langle 9 \Bigr\rangle$ Reinforce joist connection at bearing wall per S4.1
- $\langle 10 \rangle$ (N) 4x12 to restrain front freezer wall, T.O. bm @ T.O. freezer (+8'-4")
- $\langle 11 \rangle$ (N) 4x6 Post
- $\langle 12 \rangle$ (N) Kitchen hood max weight in parentheses









QC										
INI	%									

[DIFFUSER,	REGIST	ER & (GRILLE	SCHED	ULE				
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY				
CD	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME Ž" DROP	1240 FRAME 21 - 1""	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB				
CD-2	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	1240 FRAME 22	9000-1	7500-B	MCD BORDER TYPE 1	SQD-SF				
CR	CEILING RETURN WITH " EGG CRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF				
CRL	CEILING RETURN WITH " EGG CRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT				
s * [×]	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, Ž" SPACING	880 V	V 4004 S	61 DV	300 RS	T54				
NOTES:	1. ALL SYMBOLS NOTED MAY NOT E REFER TO PLANS FOR SIZE AND			ORDINATE DIFFUSER TYL FLECTED CEILING PLAN.	PE WITH					
	2. ALL SUPPLY AIR DIFFUSERS ARE UNLESS SHOWN OTHERWISE.	4 WAY BLOW	RE	POSED BLADE DAMPERS QUIRED AT DIFFUSERS, F IILLES.						
	3. FURNISH ALL PRODUCTS OF A S MANUFACTURER. ALUMINUM REGISTERS		BR	6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.						

FOR SHOWERS AND DAMP AREAS

MECHANICAL GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY 2. DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES. 5.
- 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
- 7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
- 9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND, COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- 10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"Ø & 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMODATE THE ROUND DUCT CONNECTION.
- 11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

	MECHA	NICAL LEGEND		MECHANIC	AL LEGEND cont'd
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE		КW	KILOWATTS
	ABC	ABOVE CEILING		KWH	KILOWATT HOUR
	AF	ABOVE FLOOR		LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	AFF	ABOVE FINISHED FLOOR		LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	AFG	ABOVE FINISHED GRADE		LRA	LOCKED ROTOR AMPERES
\bigtriangledown	AD , AP	ACCESS DOOR , ACCESS PANEL		LVR	LOUVER
	AC	AIR CONDITIONING		MAD, MD	MANUAL AIR DAMPER
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN		MAV	MANUAL AIR VENT
	AB	ANCHOR BOLT		MFR	MANUFACTURER
	BDD	BACK DRAFT DAMPER		MAX	MAXIMUM
	BF	BELOW FLOOR		MIN	MINIMUM
	BHP	BRAKE HORSE POWER		MCC	MOTOR CONTROL CENTER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)		(N)	NEW
	CC	CENTER TO CENTER		OA	OUTSIDE AIR
	CLG	CEILING		OAD	OUTSIDE AIR DAMPER
	CEF	CEILING EXHAUST FAN		OD	OUTSIDE DIAMETER
	CLR	CLEAR		OV	OUTLET VELOCITY
	CONC	CONCRETE		ОН	OVERHEAD
—— CD ——	CD	CONDENSATE DRAIN		POC	POINT OF CONNECTION
	CONN	CONNECT OR CONNECTION		LBS	POUNDS
	CONT	CONTINUATION	RG	RG	REFRIGERANT GAS PIPING
	CONTR	CONTRACTOR	RS	RS	REFRIGERANT SUCTION PIPING
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE	RL ——	RL	REFRIGERANT LIQUID PIPING
	DPR	DAMPER		RA	RETURN AIR
°F		DEGREES FAHRENHEIT		RAD	RETURN AIR DAMPER
-	DIA	DIAMETER , PHASE		RPM	REVOLUTIONS PER MINUTE
	DL	DOOR LOUVER		RLA	RUNNING LOAD AMPERES
	DN	DOWN		SM	SHEET METAL
	DB	DRY BULB (DEGREES FAHRENHEIT)		SD	SMOKE DAMPER
	EP	ELECTRICAL PANEL		SKD	SMOKE DETECTOR
	EL	ELEVATION	_	SQFT	SQUARE FEET
	ENT	ENTERING		SQIN	SQUARE INCHES
	EDB	ENTERING DRY BULB		SP	STATIC PRESSURE
	EW	ENTERING WATER		SPD	STATIC PRESSURE DROP
	EWT	ENTERING WATER TEMPERATURE		SA	SUPPLY AIR
	EWB	ENTERING WET BULB		SF	SUPPLY FAN
	EVAP	EVAPORATOR		TCP	TEMPERATURE CONTROL PANEL
	EC	EVAPORATIVE COOLER		TCV	TEMPERATURE CONTROL VALVE
	EA	EXHAUST AIR		Т	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF
	EAD	EXHAUST AIR DAMPER			(TO TOP OF STAT)
	EF	EXHAUST FAN		MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	(E), EXIST			ТА	TO ABOVE
~ × ~ × ~ ×	(E)	EXISTING TO BE REMOVED		ТВ	TO BELOW
	ESP	EXTERNAL STATIC PRESSURE		TP	TOTAL PRESSURE
E	FPM	FEET PER MINUTE		TSP	TOTAL STATIC PRESSURE
	FD	FIRE DAMPER		TYP	TYPICAL
	FS	FIRE/SMOKE DAMPER		UG	UNDERGROUND
	FC	FLEXIBLE CONNECTION		UCD	UNDER CUT DOOR
-	FLR	FLOOR		UON	UNLESS OTHERWISE NOTED
		FLOW IN DIRECTION OF ARROW		WPD	WATER PRESSURE DROP
	FLV	FLOW LIMITING VALVE		W	WATTS
	FA	FROM ABOVE		WT	WEIGHT
	FB			WB	
	FLA			WMS	
	GALV			WP	WORKING PRESSURE
	GI	GALVANIZED IRON			
	GA	GAUGE			
	HTG	HEATING			

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.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 PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM). 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):

1P🛛	MD	PP	ΕD	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
1P🛛	MD🛛	PP 🗆	ΕD	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0052-13
1P🗆	MD	PP 🗌		OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENT.
- FROM A WALL.

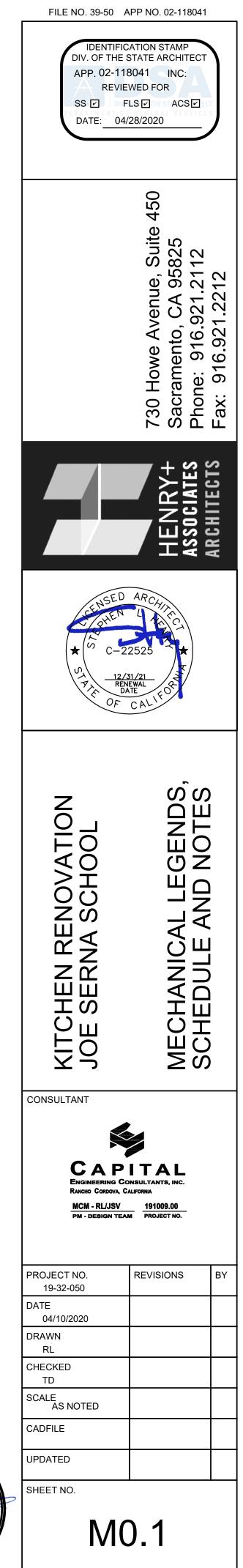
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND

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 ARE REQUIRED TO BE

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

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



DATE SIGNED: _____04/10/2020

ROFESSIO

M 22836

EXPIRES 9/30/20

MECHANIC

Q	QC										
INI	%										

	AIR CONDITIONING (MAKE-UP AIR) UNIT SCHEDULE																															
		"TRANE"			MIN.	ESP		DX COOLING			GAS HEATING								EFFICIENCY OPERATING WEIGHT (LBS.)													
UNIT	SERVES	MODEL NO.	NOM. TONS	CFM	0.A.	LSP (IN.	LOW	SENSIBLE	TOTAL	EV	/AP.			HX		SUPPL	Y FAN	C	OMPRES	SOR	CON	D. FAN	COMB. FAN			0550			BOOF	PWR.		MOUNTING
••••	ULIIVE0	U.N.O.	TONS	••••	(CFM)	W.G.)) LOW CFM (66%)	CAPACITY		EDB (°F)	EWB (°F)	INPUT (MBH)	INPUT OUTPUT (MBH) (MBH)	(MBH) EDB V (°F)		BHP	FLA	QTY	RLA	LRA	QTY	FLA	FLA	МСА	моср	(EER)	(TE)		CURB	EXH. ECON.	τοται	DETAIL
AC A2	KITCHEN A101	OADG010B1-DAB10AF00	10	3210	3210	1.0	NA	143.1	143.1	101	72	200.0	160.0	28	208/3	1.5		2	19.6 16.1	136 110	2	4.2 EA.	-	56.2	70	(12.4)	80	2961	600	NA	2561	(1, 2, 3) (M5.3)

NOTES:

UNITS SELECTED AT 101 F DB / 72 F WB SUMMER AMBIENT, 28 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.

2 PROVIDE UNIT WITH EXPANDED METAL CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 8 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S), DIGITAL SCROLL COMPRESSOR, 10:1 TURNDOWN MODULATING GAS HEAT, MODULATING HOT GAS REHEAT, 2-POSITION CLASS 1A OUTSIDE AIR DAMPER, DIRECT-DRIVE PLENUM SUPPLY FAN, AND 2" DOUBLE WALL CONSTRUCTION.

3 PROVIDE "MICROMETL" STRUCTURALLY CALC'D 14" TALL STANDARD CURB.

	SPLIT SYSTEM AC UNIT SCHEDULE																			
UNIT	LOCATION	"JCI" Model No. (Indoor Unit)	CFM	FAN FLA	МСА	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"PCI" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	COMPR RLA	LRA		моср	FAN FLA	VOLT/PH	SEER	OPER. WT. (LBS.)	
SHPI A1	TEACHERS ROOM A103	DHX18NWB21S	335 TO 559	0.38	-	208/ 1 PH	35	2 M5.1	SHPO A1	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	(
SHPI A2	KITCHEN A101	DHR36NKB21S	826 TO 1180	0.38	1.5	208/ 1 PH	97	2 M5.1	SHPO A2	DHR36CSB21S	39.0	-	-	29.0	45.0	-	208/ 1 PH	16.0	225	(
SHPI A3	FOOD LOCKER A102	DHX18NWB21S	335 TO 559	0.38	-	208/ 1 PH	35	2 M5.1	SHPO A3	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	(
NOTES:																				

NOTES:

1. PROVIDE WITH FACTORY FILTERS. 2. PROVIDE WITH FACTORY HARD WIRED STAT.

3. PROVIDE WITH WASHABLE FILTER.

4 UNIT SHALL OPERATE IN 100% OSA MODE. FACTORY CONTROLS SHALL MODULATE MECHANICAL HEATING AND COOLING CAPACITY AS REQUIRED TO MAINTAIN THE FOLLOWING DISCHARGE AIR TEMPERATURE SETPOINTS: HEATING MODE = 70 degF, COOLING MODE = 76 degF. INTERLOCK AC-A2 TO RUN ONLY WHEN KITCHEN HOOD

EXHAUST FAN KEF-A1 IS SWITCHED ON.

4. INDOOR FAN COIL POWERED BY CONDENSING UNIT, REFER TO MRF'S INSTALLATION DATA. 5. PROVIDE "REFCO" MODEL GOBI CONDENSATE PUMP, 120V/3PH/60HZ, 16 WATT POWER CONSUMPTION, 5.0 AMPS ALARM RELAY, 3.17 GAL/HR CAPACITY, 65FT MAX. VERTICAL HEAD. INSTALL PUMP ON WALL BRACKET BELOW INDOOR UNIT.

6. PROVIDE INDOOR UNIT WITH "S&P" INLINE CENTRIFUGAL DUCT FAN (IOAF-A2) MODEL PV-125 AT 60 CFM, 115V. PROVIDE WITH VARIABLE SPEED CONTROLLER LOCATED ADJACENT TO FAN. PROVIDE WITH "S&P" FILTER BOX MODEL FB6 AT 60 CFM. SEE OUTSIDE AIR FAN SCHEDULE BELOW.

					EXH	AUST	FA	N
UNIT	LOCATION	"GREENHECK" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	RPM	HP (WATT
CEF A1	STAFF TOILET A104	S-A190	125	0.38	E	CE	1400	(46)
CEF A2	JAN/ STOR A105	SP-B150	75	0.45	E	CE	724	(128)
KEF A1	KITCHEN A101	CUBE-220HP-20	4010	1.30	E	WE	999	2.0
NOTES: 1. PROV		(DRAFT DAMPER.	4	• (E) AC-1	TO TURN ON WHE	N KEF-A1 TURNS (DN. 7.	INTERLO

2. PROVIDE WITH INVERTER DUTY MOTOR.

3. CONTROL FAN WITH WALL SWITCH.

5. SIDE WALL MOUNTED EXHAUST FAN.

6. **PROVIDE WITH MOTOR STARTER.**

	EXI	STING	AC-	UNIT S	SCHE	DULE	(FO	R INF	ORM	ΙΑΤΙΟ	Ν
		"TRANE" MODEL	CEN	MIN.		COND	ENSER	EVAP. ST	FANDARD	CONTROL	
UNIT	LOCATION	NO.	CFM	0.A. (CFM)	VOLT/PH	QUANTITY	HP	QUANTITY	HP	DIAGRAM	
EXISTING AC/1	GRADE MOUNTED, SERVES MP ROOM A106	YCH301C3LOBA	9,000	800	208/3	2	1.0	1	7.5	3 M6.1	INT ON ALF EXF RE- FOI

	OUTSIDE AIR FAN SCHEDULE												
UNIT	LOCATION	"S&P" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	VOLT/PH	WATTS	OPER. WT. (LBS.)	CONTROL DIAGRAM	NOTES		
A1	TEACHERS ROOM A103	PV-125X	125	0.01	OUTSIDE AIR	INLINE	120/1	58	7	5 M6.1	1		
A2	KITCHEN A105	PV-125	60	0.01	OUTSIDE AIR	INLINE	120/1	58	7	5 M6.1	1		
NOTES: 1. INTER	RLOCK TO RUN W	/ITH ASSC	CIATED S	PLIT SYS	TEM UNIT. SEE	SPLIT SYSTEI	M AC UNIT SCHE	EDULE ABOV	Æ.				

DE				NOTES			DIV. API SS	OF THE S P. 02-118 REVIE	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS ACS 28/2020	
	A5.3	(M6.1		4)					
									450	
									730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 916.921.2212
									E + S	IS
4, 5, 7									N R	HITEC
4, 5, 6										ARC
4, 5								ENSED	ARCHITC	
T 125 CF NT TO F	M, 115V. PI	rovide De wit	E WITH VARIABI H "S&P" FILTER	DUCT FAN (IOAF-A1) LE SPEED CONTRO 8 BOX MODEL FB6 A	LLER		(★ (`	C-22		
	OP	ER.					Z			
SONES	; W (LB			DIAGRAM	NOTES			С Г		
1.5	20	D	2 M5.2	6 M6.1						
1.5	1	5	2 M5.2	6 M6.1	(1)(7)(9)		REN	ñ I	SAL)
					(2)(3)(4)					
17.3	15		EGEND:	M6.1	50 5			0	MECHANIC	
		[() ()	OUTY: S-SUPPL C-CIRCULATION	Y, R-RETURN, E-EX I IF EXHAUST, WE-W/) 	Ш С Z V)
						_				
		10		ILY)			Engi		ITAL INSULTANTS, INC.	
	CONTRO DIAGRA	м		TH KEF-A1. WHEN	KEE-A1 IS SWITCHE		MCM	o Cordova, Ca I - RL/JSV design team	191009.00	
	3 M6.1		ON, (E) AC-1 Sł ALREADY RUN EXHAUST MAK	HALL BE INTERLOCI NING, TO PROVIDE E-UP TRANSFER AII E) AC-1 OSA DAMPE	KED TO RUN, IF NO [.] KITCHEN HOOD R. TCC SHALL		PROJECT NO.		REVISIONS	BY
							19-32-050 DATE 04/10/2020			
							DRAWN RL			
							CHECKED TD			
							SCALE AS NOTE	ΞD		
					POFESSIO		UPDATED			
				Ster.	D PROFESSIONAL DIALS A. DULL DIALS A. DULL D	ELE	SHEET NO.			
				e * REGIS	M 22836 EXPIRES 9/30/20 THANICH TTE OF CALIFORN	NEER * *		MC).2	

MOUNTING DETAIL CONTROL DIAGRAM NOTES 1, 2, 3, 4, 5, 7 M6.1 M5.1 $\overline{)}$ 5 M6.1 1, 2, 3, 4, 5, 6 M5.1 5 M6.1 $\overbrace{1}$ 1, 2, 3, 4, 5 M5.1

7. PROVIDE INDOOR UNIT WITH "S& MODEL PV-125X AT 125 CFM, 115 LOCATED ADJACENT TO FAN. PRO CFM. SEE OUTSIDE AIR FAN SCHE

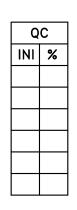
SCHEDULE TTS) VOLT/PH SONES FLA 120/1 1.5 1.3 120/1 1.7 1.5 17.3 208/3 7.5

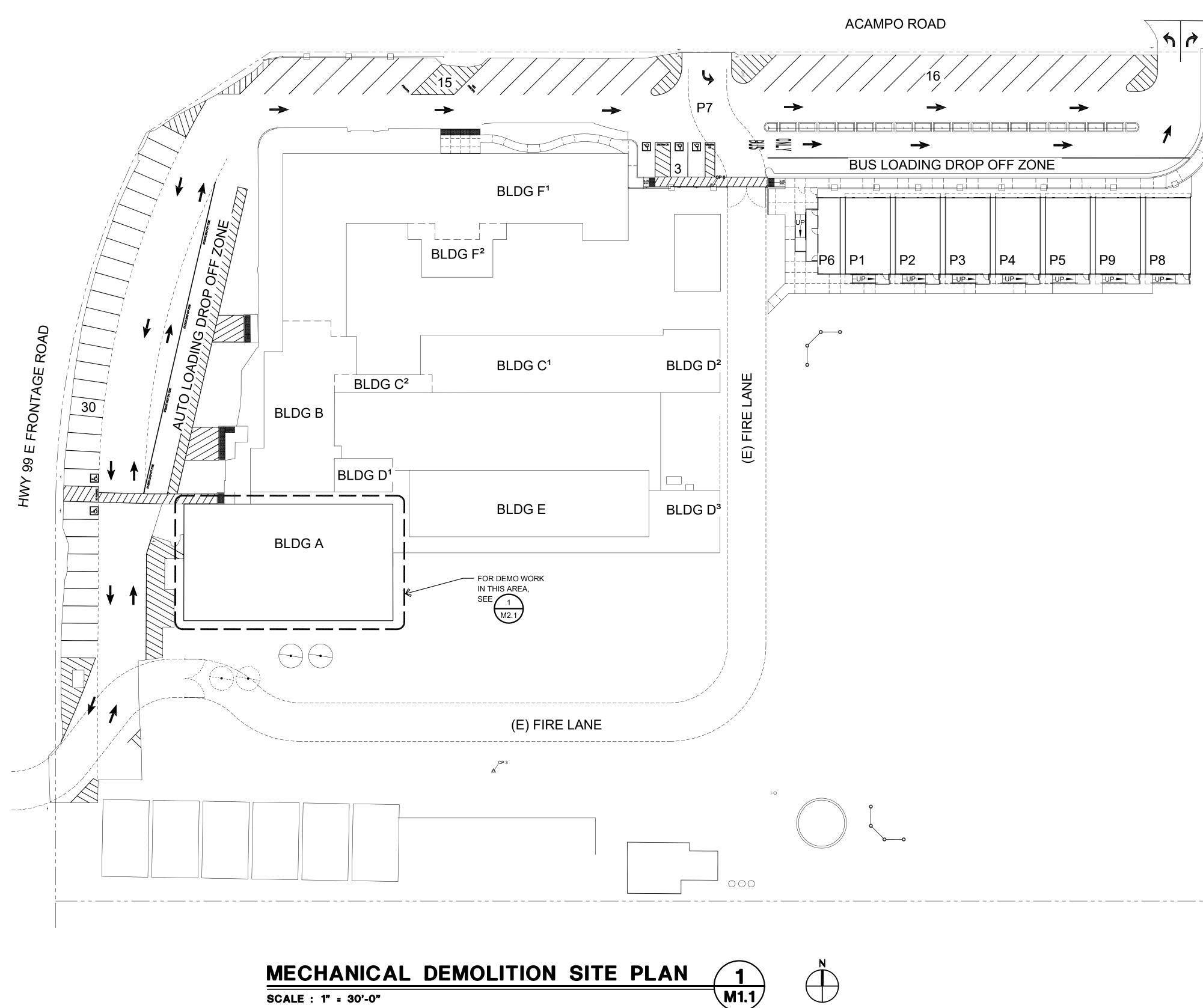
RLOCK TO RUN WITH LIGHTS

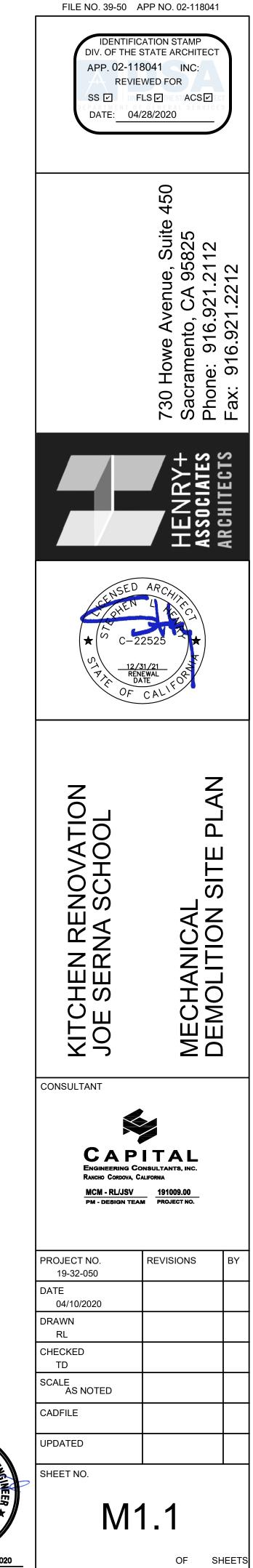
8. INTERLOCK TO RUN WITH SHPI/SHPO-A1. 9. PROVIDE WITH SPEED CONTROLLER.



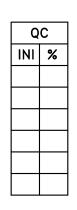
FILE NO. 39-50 APP NO. 02-118041

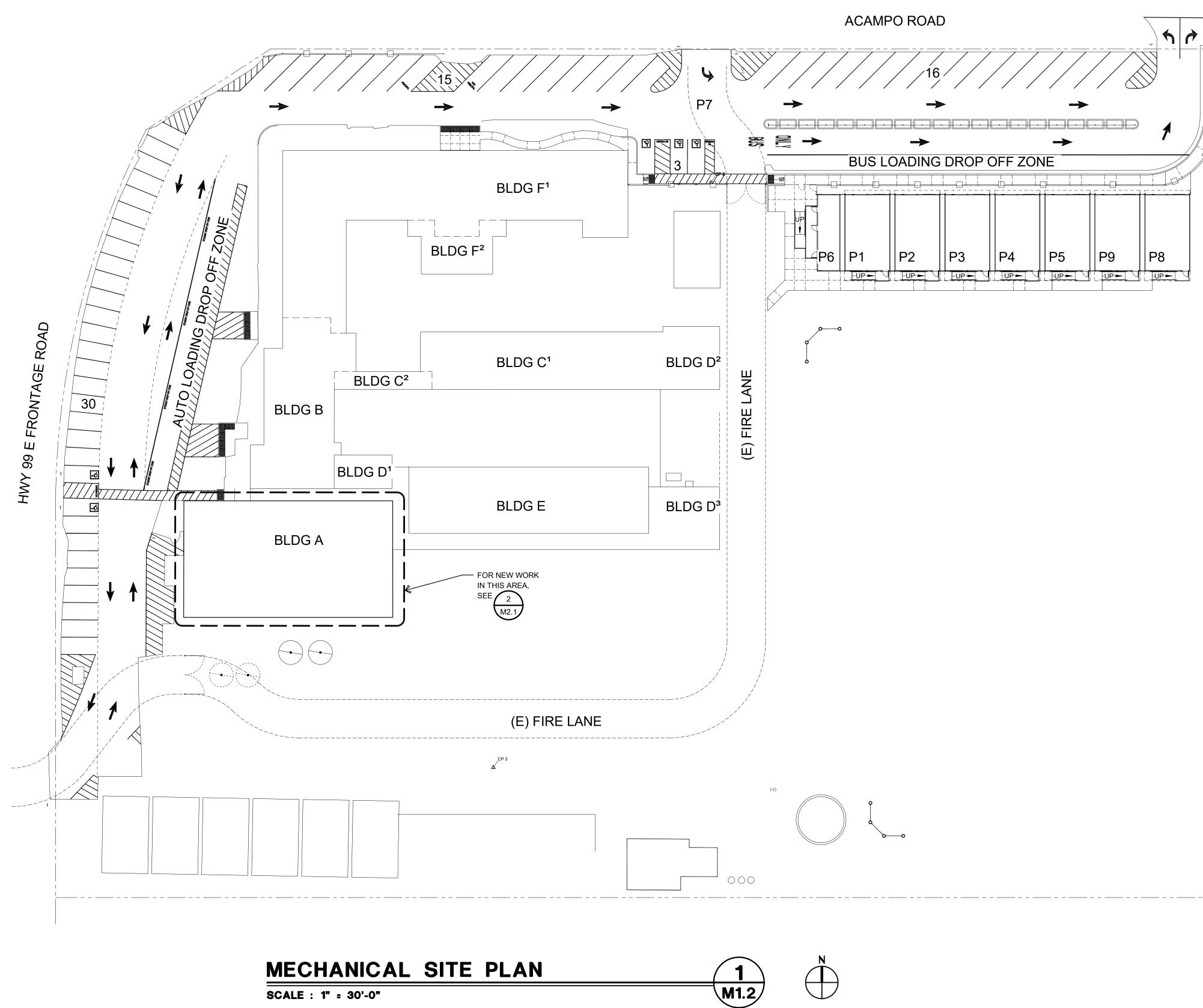


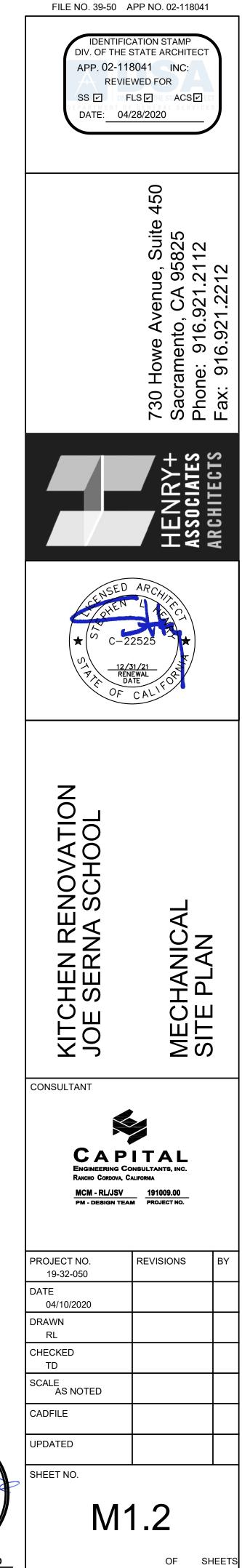




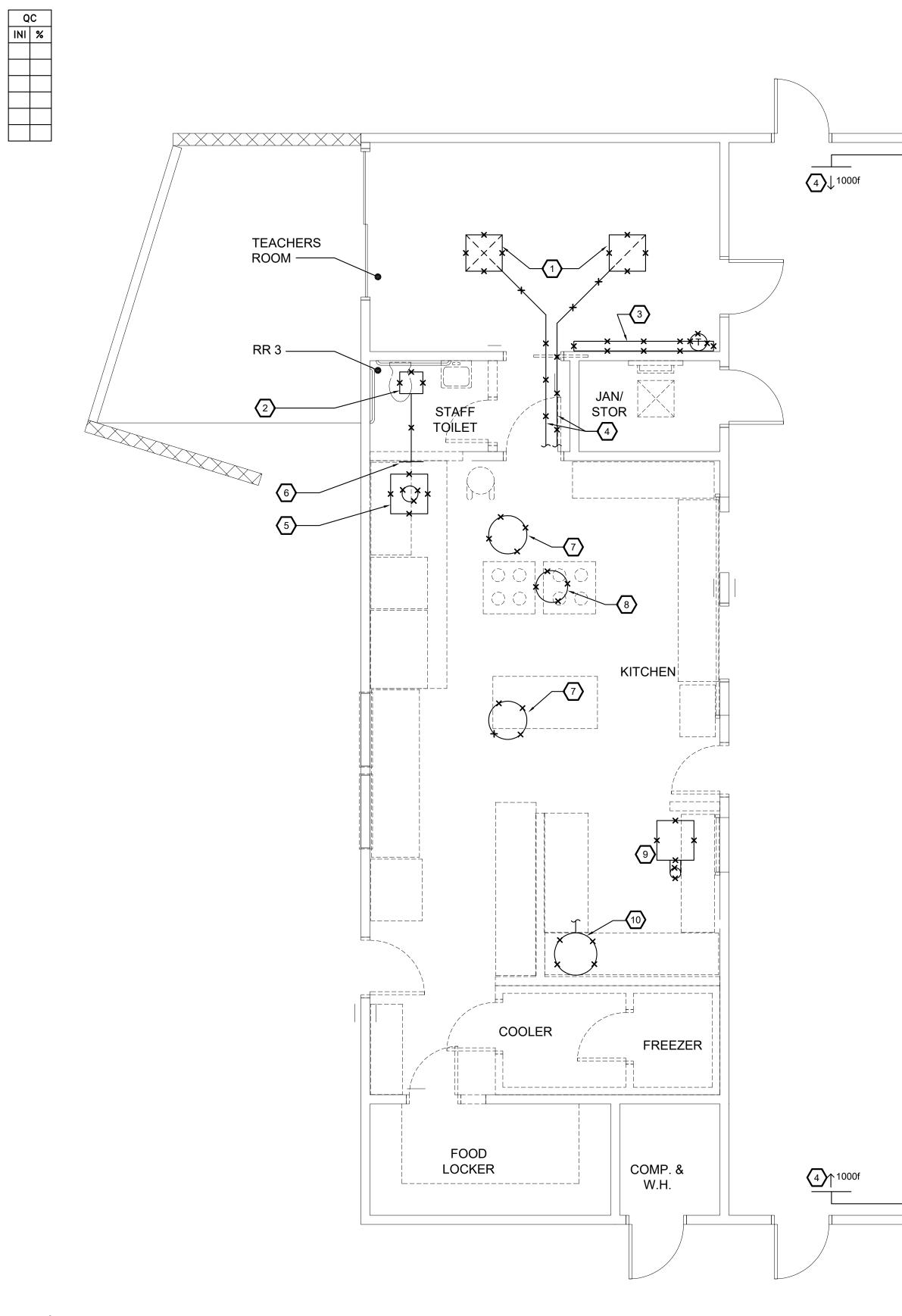
M 22836 EXPIRES 9/30/20 DATE SIGNED: ____04/10/2020











<u>Demoli</u>

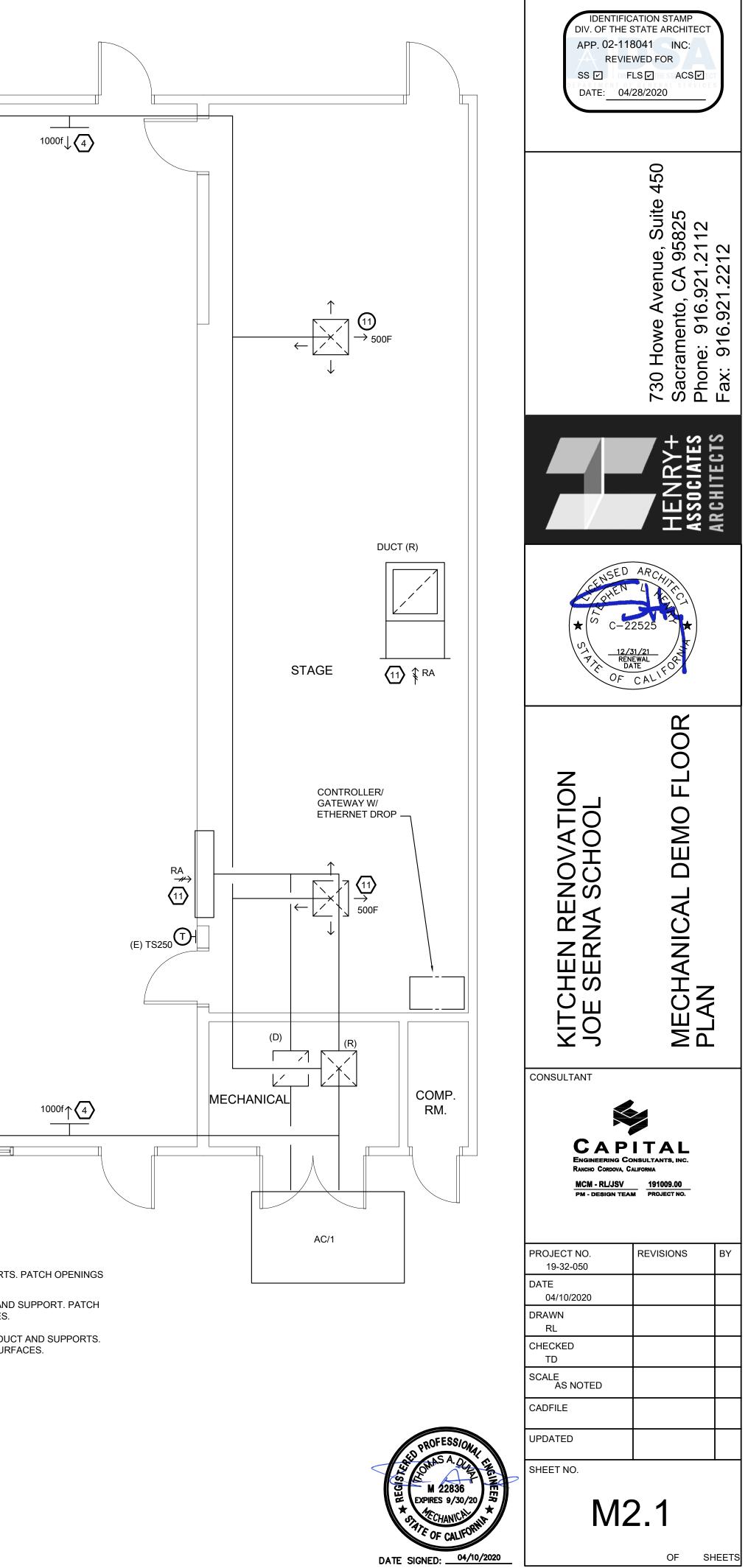
1. -

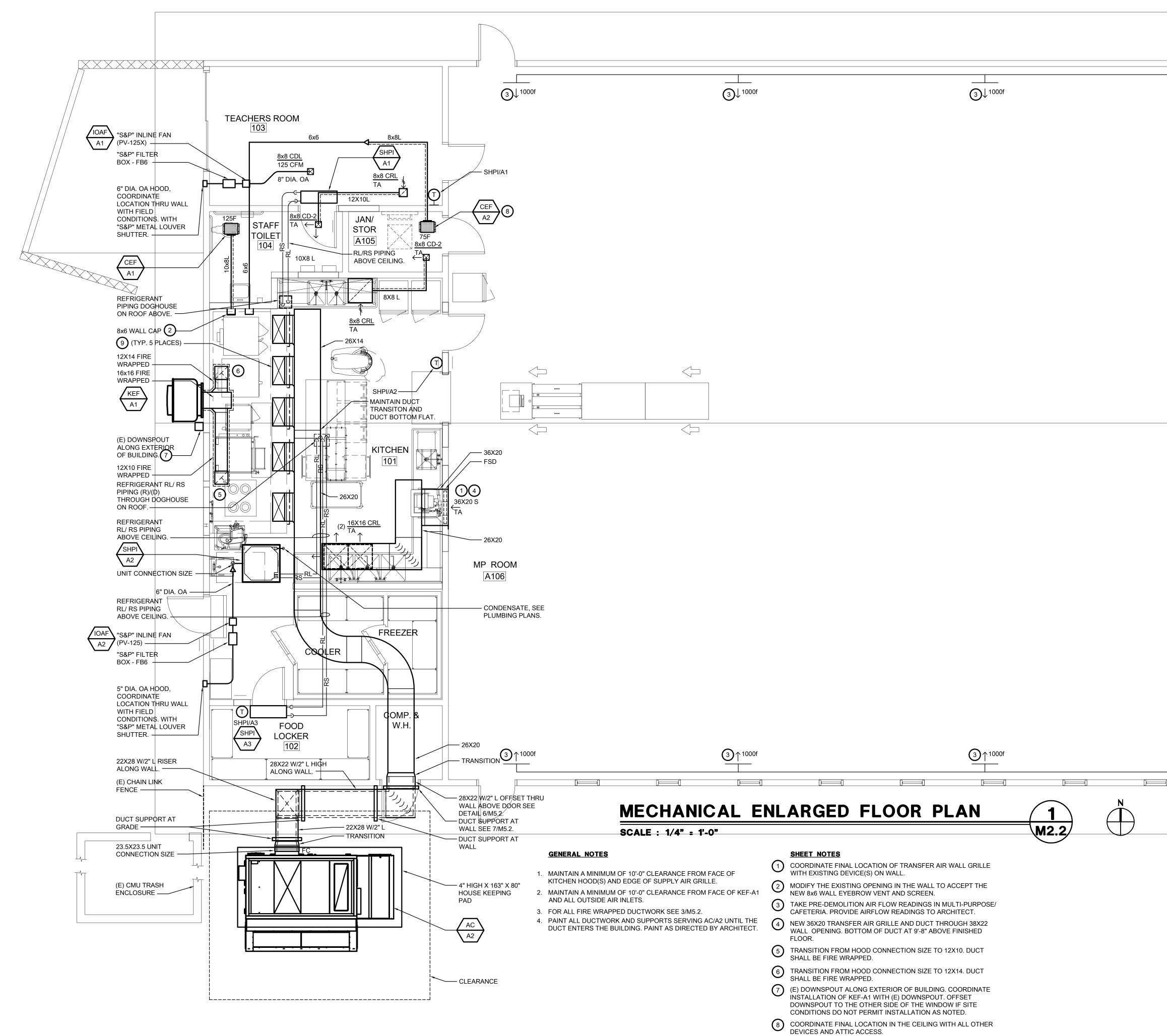
)f =1
MECHANICAL SCALE : 1/4" = 1'-0"	DEMO FLOOR PL		1 M2.1
ITION GENERAL NOTES	 AND SUPPORTS. PATCH OP SURFACES. REMOVE CEILING EXHAUST PREPARE FOR NEW EXHAUST REMOVE RADIANT HEATER MATCH EXISTING SURFACES TAKE PRE-DEMOLITION AIR CAFETERIA. PROVIDE AIRFL REMOVE HOOD, DUCTWORN TO MATCH EXISTING SURFACES REMOVE EF EYEBROW, DUC SUPPORTS. PREPARE FOR INFORMATION PREPARE FOR INFORE FOR INFORMAT	TES RK, ASSOCIATED EQUIPMENT, STAT PENINGS TO MATCH EXISTING T FAN, DUCTWORK AND SUPPORTS. UST FAN AND DUCTWORK. AND SUPPORTS. PATCH OPENINGS TO S. CFLOW READINGS IN MULTI-PURPOSE/ LOW READINGS TO ARCHITECT. K AND SUPPORTS. PATCH OPENINGS ACES.	 REMOVE HOOD, DUCTWORK AND SUPPORTS TO MATCH EXISTING SURFACES. REMOVE "CARRIER" UNIT HEATER, FLUE AND OPENINGS TO MATCH EXISTING SURFACES. REMOVE DISHWASHER HOOD, EXHAUST DU PATCH OPENINGS TO MATCH EXISTING SUR
		VORK AND SUPPORTS. PATCH TING SURFACES.	

MULTI-PURPOSE/ CAFETERIA

4) 1000f

_____ 4 ↓ 1000f





QC INI %

(9) OFFSET AND CONNECT 28X12 SA DUCT TO KITCHEN HOOD

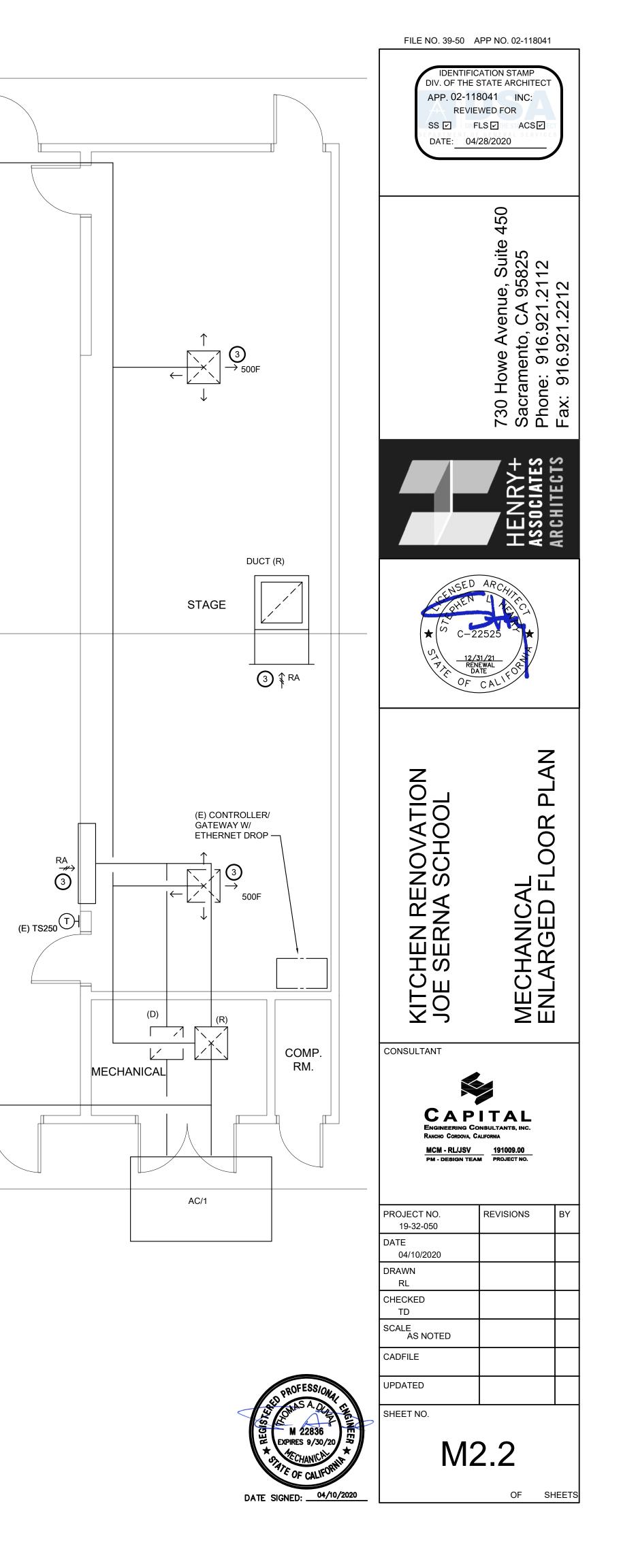
PLACES.

CONNECTION WITH MANUAL VOLUME DAMPER, TYPICAL OF 5

^{1000f}↓3

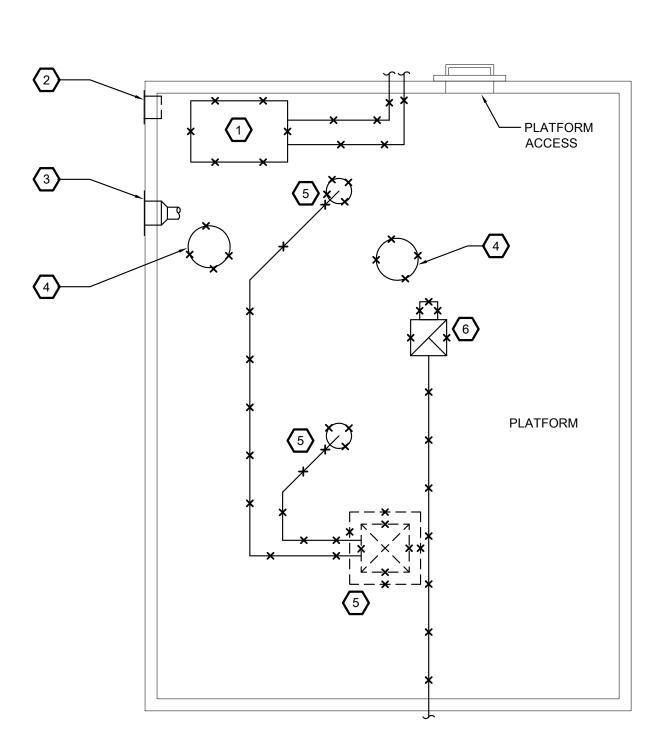
RA

^{1000f}↑③





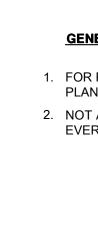




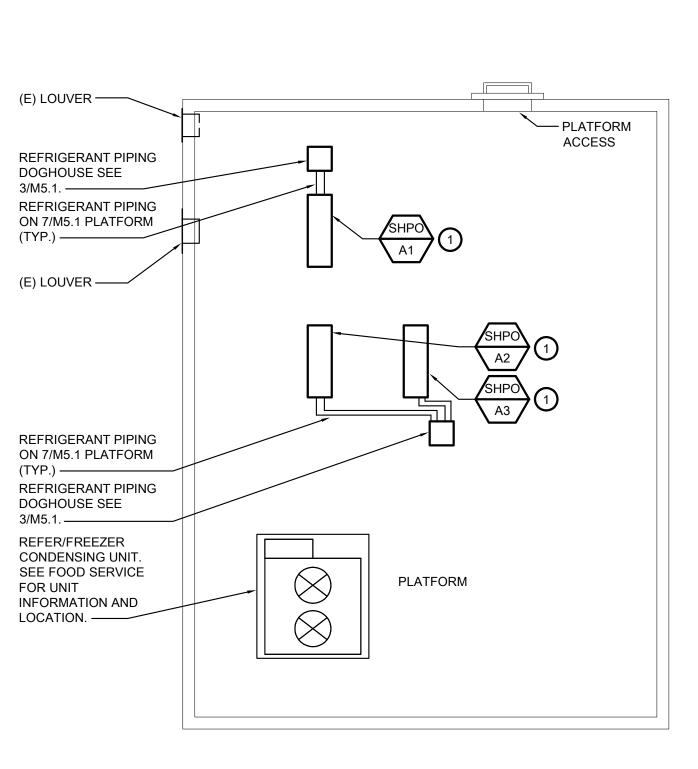












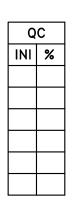
MECHANICAL PLATFORM PLAN



 \bigcirc

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

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



DEMOLITION GENERAL NOTES

1. NOT ALL DEMOLITION GENERAL NOTES OR DEMOLITION SHEET NOTES MAY APPLY TO EVERY DRAWING.

DEMOLITION SHEET NOTES

REMOVE CAF/02, CURB AND DUCTWORK. PATCH OPENINGS TO MATCH EXISTING SURFACES.

2 REMOVE LOUVER, DUCTWORK, ASSOCIATED EQUIPMENT AND SUPPORTS. PATCH OPENINGS TO MATCH EXISTING SURFACES. $\sqrt{3}$ LOUVER AND ASSOCIATED DUCTWORK TO REMAIN.

REMOVE EXHAUST FAN, CURB, DUCTWORK IN SPACE AND SUPPORTS. PATCH OPENINGS TO MATCH EXISTING SURFACES. 5 REMOVE GRILLE(S), DUCTWORK AND SUPPORTS. REMOVE ASSOCIATED EVAP. COOLER EQUIPMENT AND CURB ON ROOF. PATCH OPENINGS TO MATCH EXISTING SURFACES.

6 REMOVE UTILITY EXHAUST FAN, CURB, DUCTWORK IN SPACE AND SUPPORTS. PATCH OPENINGS TO MATCH EXISTING SURFACES.



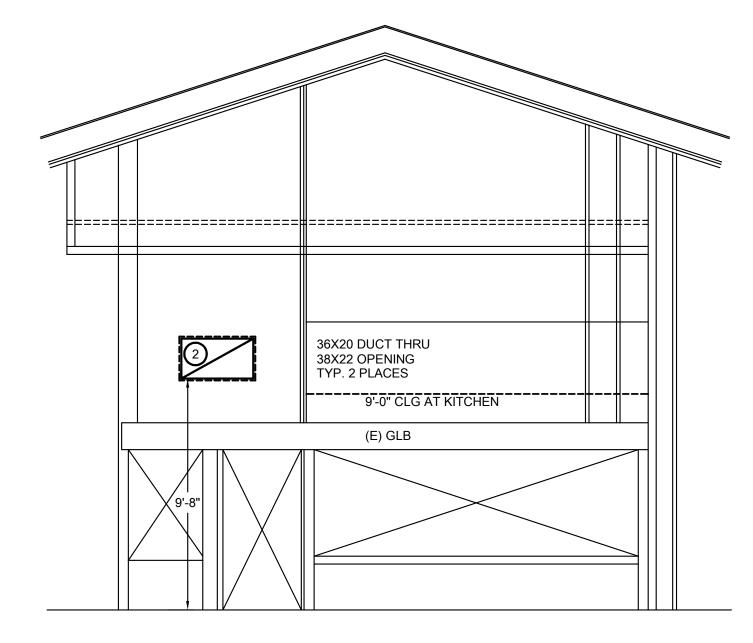
GENERAL NOTES

1. FOR PIPING CONNECTIONS TO NEW AC-UNITS SEE PLUMBING PLANS, TYPICAL. 2. NOT ALL GENERAL NOTES OR SHEET NOTES MAY APPLY TO EVERY DRAWING.

 \bigcirc

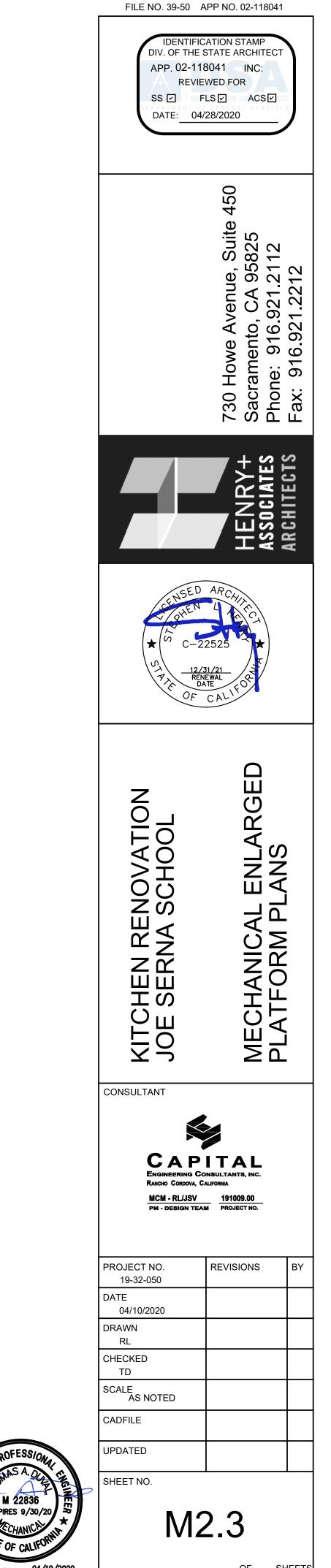
SHEET NOTES

(1) SHPI/A1, SHPI/A2, AND SHPI/A3 LOCATED ON PLATFORM ROOF 2 NEW 36X20 TRANSFER AIR GRILLE W/ FSD AND DUCT THROUGH 38X22 WALL OPENING. BOTTOM OF DUCT AT 9'-8" ABOVE FINISHED FLOOR.





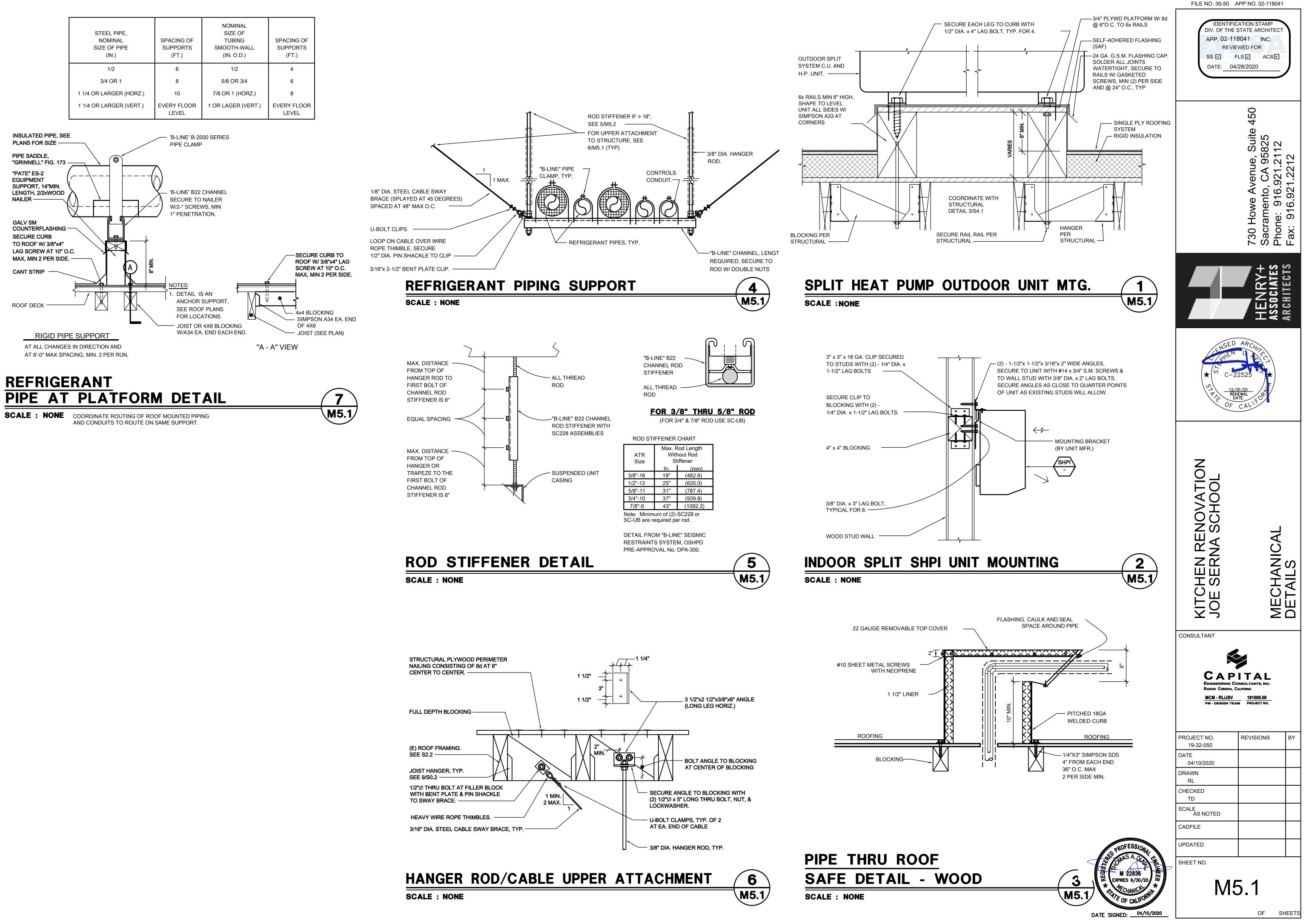
SCALE : 1/4" = 1'-0"





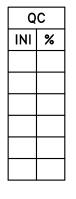
QC						
INI	%					

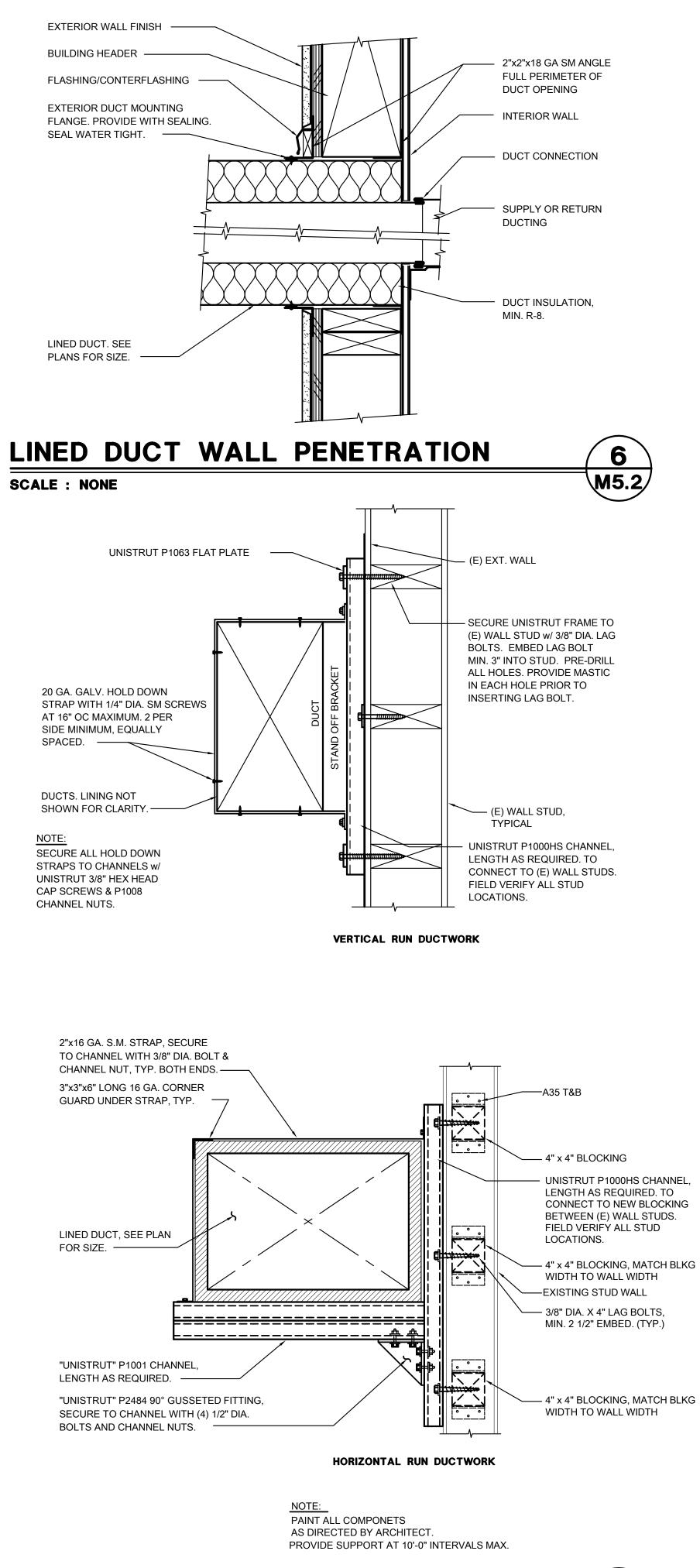
STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8
1 1/4 OR LARGER (VERT.)	EVERY FLOOR LEVEL	1 OR LAGER (VERT.)	EVERY FLOOR LEVEL



PIPE AT PLATFORM DETAIL





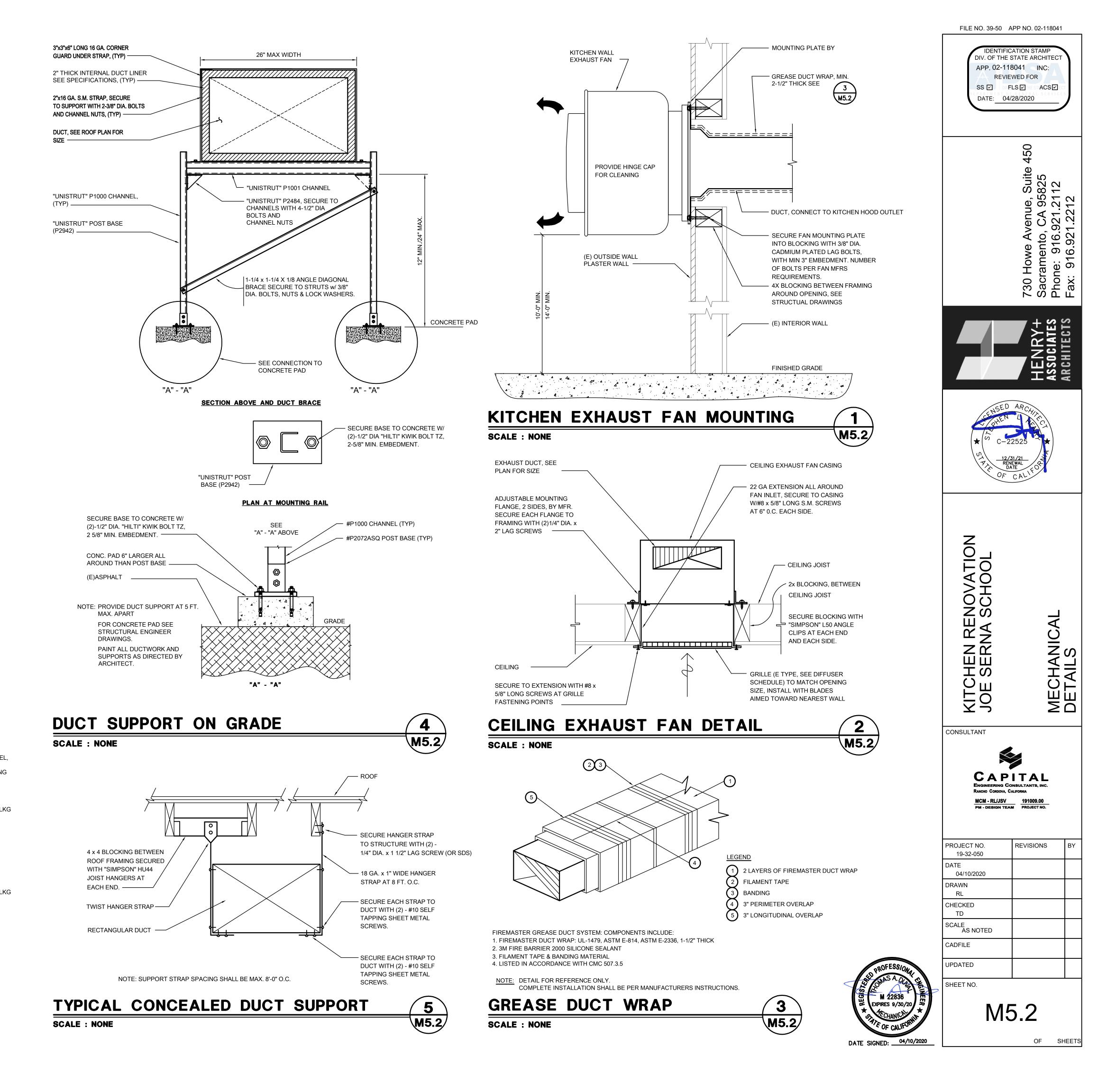




SCALE : NONE

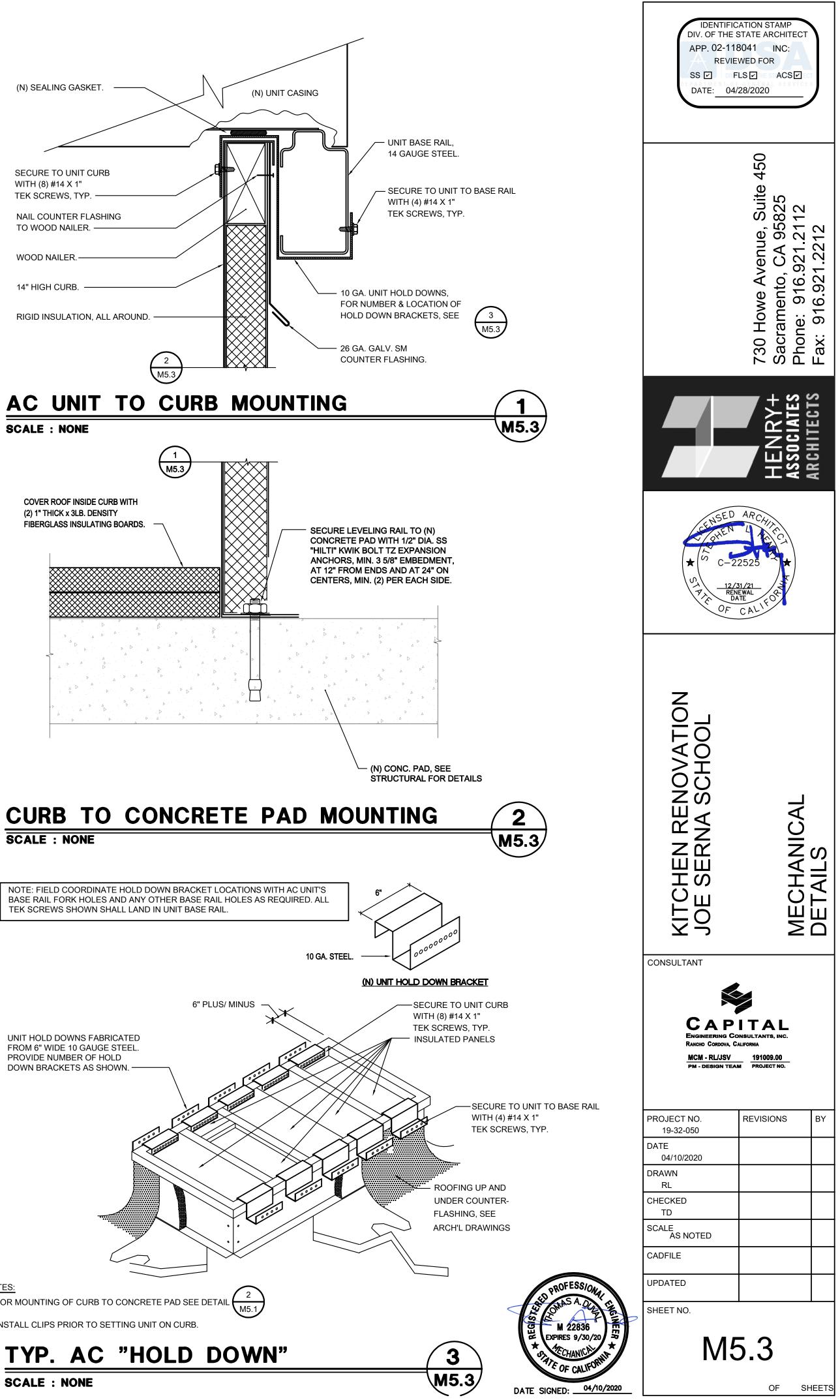
DUCT SUPPORT AT WALL

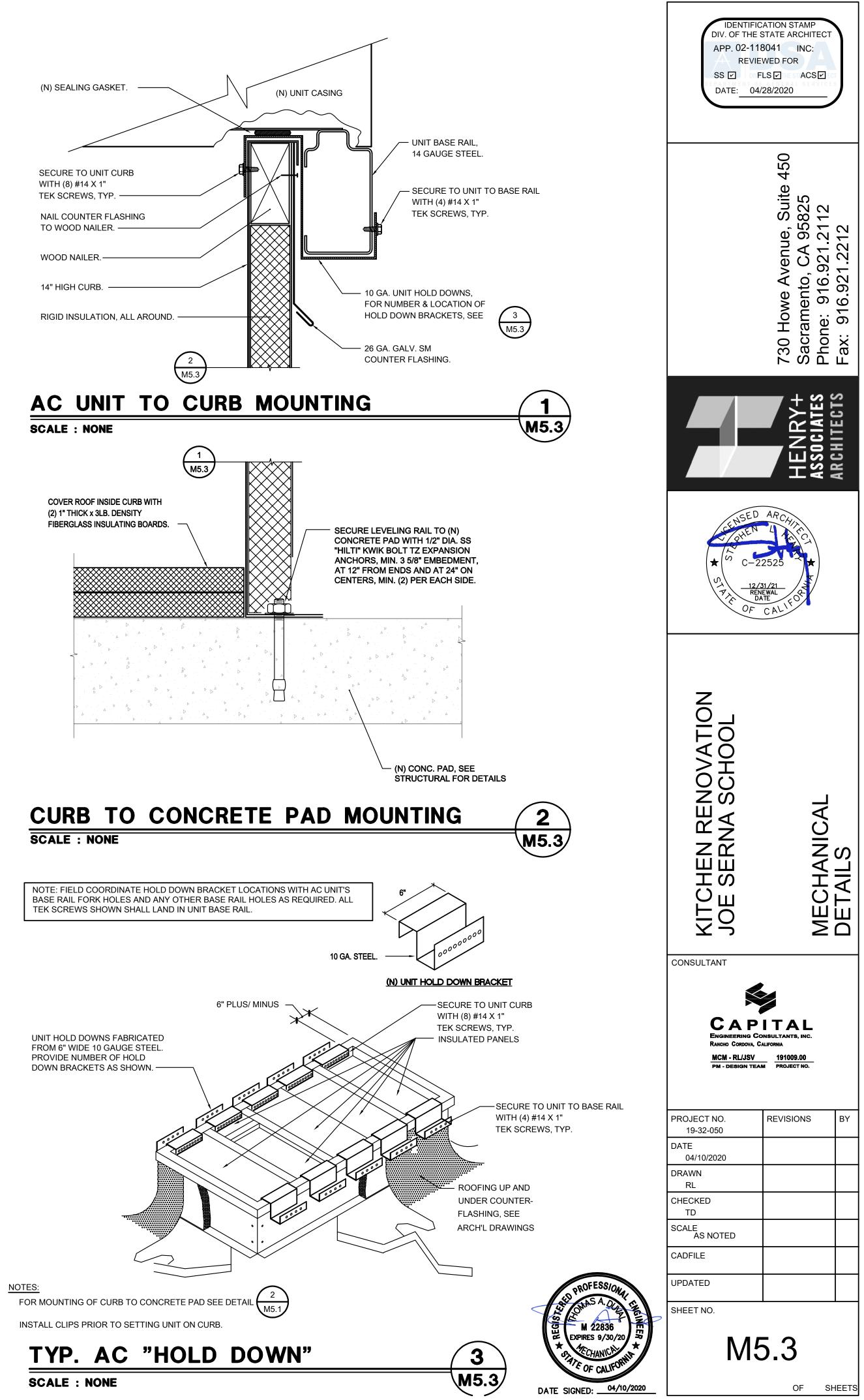
7 M5.2

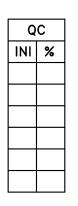


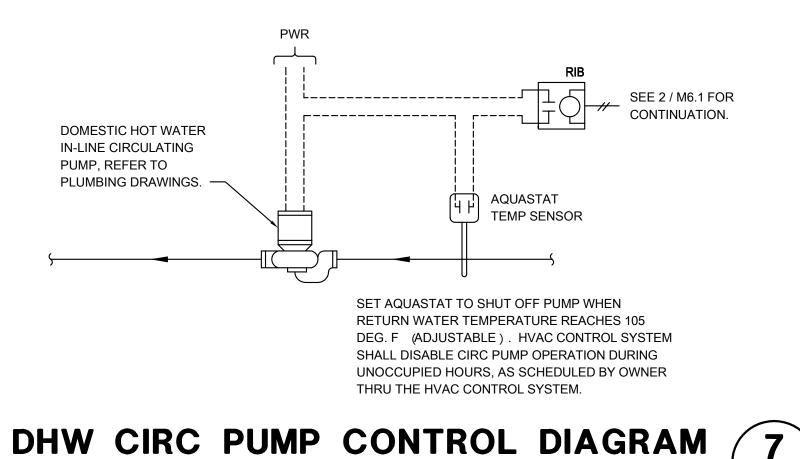
QC						
%						

(N) SEALING GASKET.	
SECURE TO UNIT CURB WITH (8) #14 X 1" TEK SCREWS, TYP	
NAIL COUNTER FLASHING TO WOOD NAILER. ————————————————————————————————————	
WOOD NAILER.	
14" HIGH CURB	
	2 M5.3
AC UNIT TO	
	1 M5.3
COVER ROOF INSIDE CURB WITH (2) 1" THICK x 3LB. DENSITY	



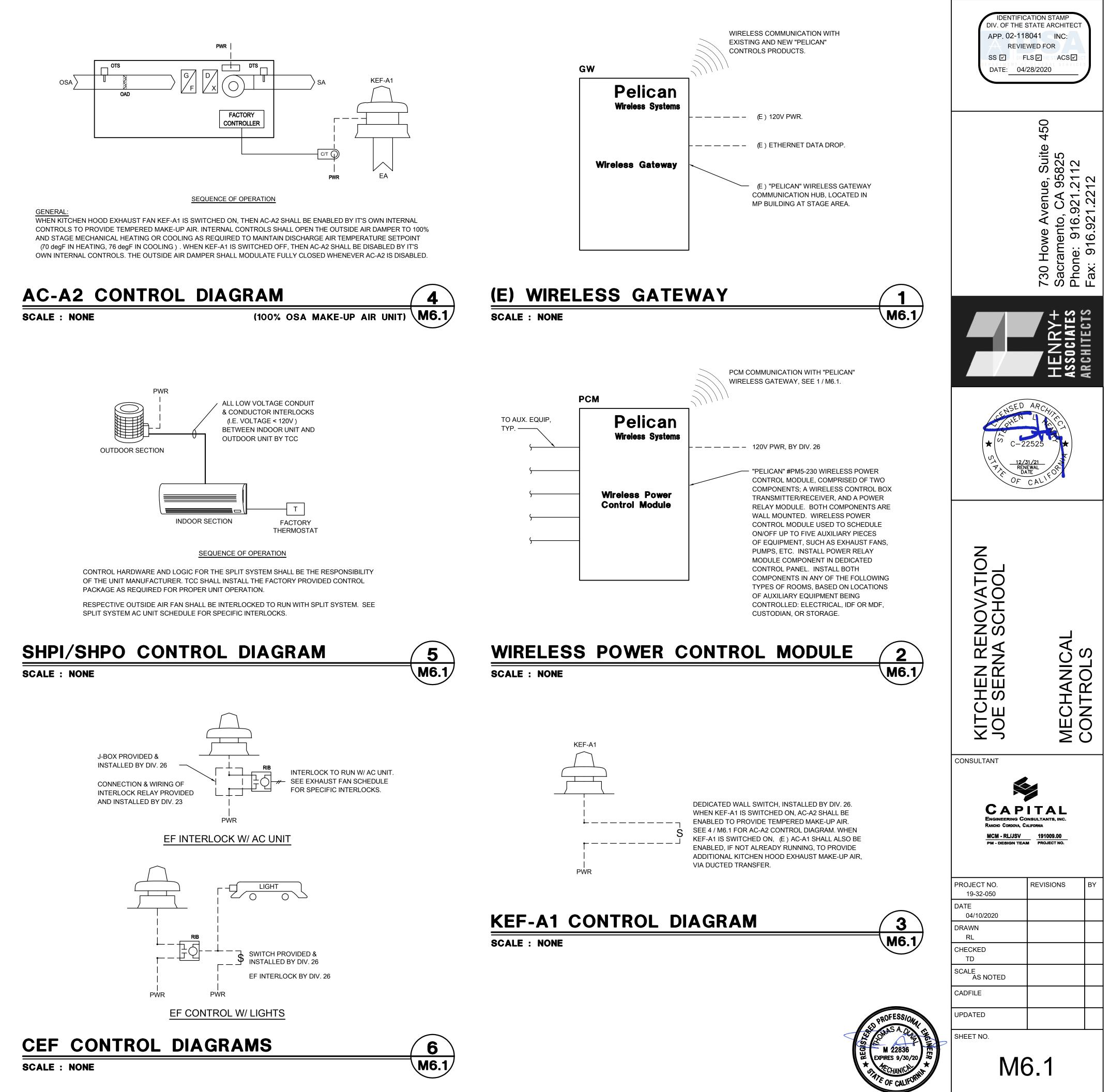






M6.1/

SCALE : NONE



DATE SIGNED: ____04/10/2020

OF SHEETS

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E								CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE								NRCC-MCH-E
This document is used to demonstrate compli- path outlined in <u>§140.4</u> , or <u>§141.0(b)2</u> for alte		nical systems that are within th	e sco	pe	of the permit applicatio	on and are	demonstra	ting compliance using the prescriptive
Project Name:		Serna Kitchen Renovation	Repo	ort	Page:			(Page 1 of 12)
Project Address:		4620 E Gil	Date	e Pi	repared:			4/3/2020
A. GENERAL INFORMATION								
01 Project Location (city)		Acampo	04)4	Total Conditioned Floor	Area		1491
02 Climate Zone		12	0)5	Total Unconditioned Flo	or Area		0
03 Occupancy Types Within Project:			0	6	# of Stories (Habitable A	bove Grad	e)	1
Office (B)	🗌 Retail (M)			Non-refrigerated Wareh	ouse (S)		
Hotel/ Motel Guest Rooms (R-1)	School	(E)			Healthcare Facility (H)			
□ High-Rise Residential (R-2/R-3)	Relocation	table Class Bldg (E)	Ø	K	Other (write in)			See Table J
B. PROJECT SCOPE								
This table Incluœs mechanical systems or corr §140.4, or <u>§141.0(b)2</u> for alterations .	ponents that a	re within the scope of the perm	nit app	pli	cation and are demonsti	rating com	pliance usi	ing the prescriptive path outlined in
01		C)2					03
Air System(s)		Wet System	Comp	ро	nents		Dr	y System Components
Heating Air System		Water Economizer	r				Air Econ	omizer
Cooling Air System		Pumps					Electrc	Resistance Heat
Mechanical Controls		Hydronic System F	piping	g		\boxtimes	Fan Syst	ems
Mechanical Controls		Cooling Towers					Ductwor	·k
		Chillers				\boxtimes	Ventilati	on
		Boilers					ZonalSy	stems/ Terminal Boxes

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

Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401

Registration Provider: EnergySoft Report Generated: 2020-04-03 13:15:02

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Serna Kitchen Renovation	Report Page:	(Page 4 of 12)
Project Address:	4620 E Gil	Date Prepared:	4/3/2020

H. FAN SYSTE	MS & AIR ECONO	MIZERS								
This table is us	ei to demonstrate o	complianc	e with pr	escriptive requirements fou	nd in <u>§140</u>).4(c), §	<u>140.4(e)</u> a	and <u>§140.4(m)</u> for fan	systems. Fan systems serving	g healthcare facilities, or
those serving o	orly process loads, o	re exemp	t from the	ese requirements and do no	t need to	be inclu	ided in Tab	le H.		
System Name:	AC-MP1	Econor	nizer:1	NA: System operates @ 100% OSA	Designed per and (m)				System Fan Type:	Fixed Flow
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - <u>Table 140.4-P</u>
Item Tag	Fan Functio	n	Qty	(CFM)	AIIIOW	Airflow HP Unit ²		Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	3210	3210		внр	1.5		
EF	Exhaust		1	0		BHP		2		
Total Syst	em Design Supply A	irflow (CF	M):	3210 Total S		bystem (B)HP:	- 1	3.5	Maximum System Fan Power (B)HP:	3.02
System Name:	SHP - A1	Econor	nizer:1	NA: 54 kBtu/h cooling	Econor Contr		Desi	gned per and (m)	System Fan Type:	Fixed Flow
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - <u>Table 140.4-B</u>
Item Tag	Fan Functio	n	Qty	(CFM)	Ipply Airflow		Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	560		E	внр	0.19		
Total Syst	em Design Supply A	irflow (CF	M):	560	Total S	ystem (B)HP:	~	0.19	Maximum System Fan Power (B)HP:	0.53

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.301 Schema Version: rev 20190401

Registration Provider: EnergySoft Report Generated: 2020-04-03 13:15:02

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Serna Kitchen Renovation	Report Page:	(Page 7 of 12)
Project Address:	4620 E Gil	Date Prepared:	4/3/2020

Registration Date/Time:

	04		05				06	(07
System Name	AC-MP1	System Desi Airfl	-	86.1	Šystem Transfer	Design Air CFM	0		0.1(c) and <u>§141.0(b)2</u> 1 <u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	16
	Mechanical Vent	ilation Required	per <u>§120.1(c</u>	<mark>3</mark> 3		Exh.	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> ⁶
Kitchen	All others	574			86.1	401.8	4000	DCV	NA: Not required pe §120.1(d)3
								Occ Sensor	
	04		05				06	07	
		System Design OA CFM			System	Design		Air Filtration per §120.1(c) and §141.0(b)2	
System Name	SHP - A1	Airfl	-	36.9		AirCFM			L <u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	16
	Mechanical Vent	ilation Required	per <u>§120.1(c</u>	<mark>)3</mark> ³		Exh.	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> ⁶
Teachers Room	Office space	246			36.9	0	0	DCV	NA: Not required pe §120.1(d)3
								Occ Sensor	
	04		05				06	()7
			gn OA CFM		System	Design		Air Filtration per §120	0.1(c) and §141.0(b)2
System Name	SHP - A2	Airfl	0	86.1	,	AirCFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	:	L6

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-03 13:15:02

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E CERTIFICATE OF COMPLIANCE

Project Name:

Project Address:

CALIFORNIA ENERGY COMMISSION Serna Kitchen Renovation Report Page:

4620 E Gil Date Prepared

																.101200
C. COMPLIA	ANCE R	ESULTS														
						ce document is er to Table D., o							itable b	y the user. If this	table says	"DOES
01		02		03		04		05		06		07		08		09
System Summary <u>\$110.1</u> , <u>\$110.2</u> , <u>\$140.4</u>	AND	Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers <u>§140.4(c)</u> , <u>§140.4(e)</u>	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation <u>§120.1</u>	AND	Terminal Box Controls §140.4(d)	AND	Distribution <u>§120.3</u> , <u>§140.4(I)</u>	AND	Cooling Towers §110.2(e)2	Complia	nce Resul
See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)	-	(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		CON	APLIES
				Mandatory	Measu	ires Compliano	ce (See	e Table Q for D	etails)				COMPI	.ES		
		ONDITIONS														
his table is	auto-fille	ed with unedit	table co	omments beca	use of s	selections mad	le or de	ata entered in	tables	througho u t th	ne form.					
E. ADDITIO		MADKE														
This table ind	cludes re	marks made l	by t he p	permit applica	nt to th	ne Authority Ho	aving J	urisdiction								
. HVAC SYS	STEM SU	JMMARY (D	RY & \	NET SYSTEM	S)											
<u>140.4(b)</u> ai	nd <u>§140.</u>	<u>4(k)</u> or <u>§141.</u>	<u>о(ь)2</u> ƒ	or alterations.				, ,	,		<u>1</u> and	<u>\$110.2(a)</u> and	l prescri	ptive requiremer	nts found in	<u>§140.4(</u> c
Pry System I	Equipme		ludes a	ir conditioner	s, cond	ensers, heat p	umps,	, VRF, furnaces	s and u	nit heaters)						
01		02			03			04		05	06	07	08	09	10	11
	Equipment Category per									nent Sizing per Mechanical Schedule (Btu/h) §140.4 (a&b)						
Name or		ment Category per	ner	er Fauinment T	Type per Tables 110.2 &		2	Smallest Size	7e	Heating Outp		put ^{2,3}		Cooling Output		
Item Tag		ables 110.2	per	equipment	<u>Title</u>			Available ¹ <u>{140</u>		Per Design (kBtu/h)	Rated (kBtu/h	Supp. Heating) Output (kBtu/h)	Sensil Per De: (kBtu)	sign Rated	Total Heating Load	Total Sensible Cooling Load
Registration	Number:							Registration D	ate/Tin	ne:				Registratio	on Provider:	EnergySof
CA Building Energy Efficiency Standards 2010 Nenrosidential Compliance					Penert Version, 2010 0 001					Formart Congrated, 2020.04.02, 12:15:00						

CABuilding Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.0.001 Schema Version: rev 20190401 Feport Generated: 2020-04-03 13:15:02

NRCC-MCH-E

(Page 2 of 12

4/3/20

NRCC-MCH-E	COMPLIANCE								CALIFOR	NIA ENERGY COMMISSIO
Project Name: Serna Kitchen Renovation Report Page:										(Page 5 of 1
Project Address	:		4620 E Gil Date Prepared:						4/3/20	
-						-	-			
H. FAN SYSTE	MS & AIR ECONO	MIZERS								
System SHP - A2 Economia		nizer:1	NA: 54 kBtu/h cooling Contro			Designed per and (m)		System Fan Type:	Fixed Flow	
01	02		03	04		()5	06	07	08
Far Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	djustment - <u>Table 140.4</u>
Item Tag	Fan Functio	n	Qty	(CFM)	AITIOW	HP Unit ²		Design HP	Device	Design Airflow throug Device (CFM)
SF	Supply 1		1	1200	BHP		ΗΡ	0.7		
Total System Design Supply Airflow (CFM):				1200		Total System Design (B¦HP:		0.7	Maximum System Fan Power (B)HP:	1.13
System Name:	SHP A3	Econor	nizer:1	NA: 54 kBtu/h cooling	Econor Contro	Desig		gned per and (m)	System Fan Type:	Fixed Flow
01	02		03	04		()5	06	07	08
Far Name or				Maximum Design Supply Air		Airflow			Fan Power Pressure Drop A	Adjustment - <u>Table 140.4</u>
Item Tag	Fan Functio	n	Qty	(CFM)	Airnow	HP Unit ²		Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	560		BHP		0.19		
Total System Design Supply Airflow (CFM):				560 Total S		ystem Design (BHP:		0.19	Maximum System Fan Power (B)HP:	0.53

² If total filter pressure drop (SPa) is greater than 1 in WC, or 245 Pascal then enter it and tota fan pressure drop across the fan (SPf) for system.

Registration Number:	Registration Date/Time:	Registration Provider: EnergySoft
CABuilding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.0.001 Schema V≥rsion: rev 20190401	Feport Generated: 2020-04-03 13:15:02

Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E Serna Kitchen Renovation Report Page: Project Name: (Page 8 of 1 4620 E Gil Date Prepared: Project Address: 4/3/20 J. VENTILATION AND INDOOR AIR QUALITY Mechanical Ventilation Required per §120.1(c)3 Exh. Vent per <u>§120.1(c)4</u> DCV or Sensor Controls per §120.1(d)3, pace Nan
 Floor Area
 heads/
 # of people⁵
 required
 Required
 Provided per Design

 (ft²)
 toilets
 CFM
 Min CFM
 CFM
 ditioned # of Shower ot item Tag §120.1(d)5, and §120.1(e)3 6 Occupancy Type⁴ Provided per DCV 86.1 401.8 Kitchen All others 574 <u>§120.1(d)4</u> 0 Occ Sensor 04 05 Air Filtration per §120.1(c) and §141.0(b System Design OA CFM System Design SHP A3 14.55 em Na Provided per <u>§120.1(c)</u> (NR and Hotel/Motel)) Airflow¹ Transfer Air CFM 16 10 11 12 13 14 08 09 15 Exh. Vent per §120.1(c)4 Mechanical Ventilation Required per §120.1(c)3³ DCV or Sensor Controls per §120.1(d)3, Space Nam
 Conditioned
 # of Shower
 # of
 Fequired
 Required
 Provided per Design

 Floor Area
 heads/
 people⁵
 CFM
 Min CFM
 Provided per Design
 <u>§120.1(d)5</u>, and <u>§120.1(e)3</u>⁶ ot item Tag Occupancy Type⁴ NA: Not required p DCV Food Locker Corridor Transition 97 14.55 <u>§120.1(d)3</u> 0 Occ Sensor

² Air filtration requirements apply to the following three system types per <u>\$120.1(c)1A</u> : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ven: lation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space. ³ Uriform Mechanical Code may have more stringent venilation requirements; the most stringent code requirement takes precedence.

⁴ See <u>Standards Tables 120.1-A</u> and 120.1-B.

FCOTNOTES: System CFM should include both mechanical and natural ventilation for the zore/system

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

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

Registration Number:

STATE OF CALIFORNIA

CABuilding Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.0.001 Schema Version: rev 20190401

Registration Date/Time:

Feport Generated: 2020-04-03 13:15:02

Registration Provider: EnergySoft

	F COMPLIANCE						
Project Name:				Serna Kite			
Project Addre	iS:						
	TEM SUMMARY (DRY & V	VET	,				
AC-MP1	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)					
SHP - A1	Unitary Heat Pumps		Air-cooled, sp	ε ι ,			
SHP - A2	Unitary Heat Pumps		Air-cooled, sp	., ,			
SHP A3	Unitary Heat Pumps		Air-cooled, sp	olit (1phase)			
	Equipment shall be the sma althcare facilities are except		size, within the	available optior			
	practice to show rated outp		apacity on the e	quipment sched			
³ If equipmen	t is heating only, leave coolir	ng au	tput and load b	olank. If equipme			
⁴ Authority H	aving Jurisdiction may ask fo	r loa	d calculations u	ised for compliai			
Dry System E	quipment Efficiency (other	than	Package Termi	nal Air Conditio			
01	02		03	04			
				L			
Name or Iter			Rating				
Tag	(Btu/h)		Condition	Efficien			
			(°F)				
AC-MP1	65,000 and 135,000			AFU			
	65,000	_		HSI			
SHP - A1	65,000	_		HSI			
SHP - A1 SHP - A2		_		HS			
	65,000						
SHP - A2	65,000						
SHP - A2	65,000						

HSPF

04

Thermostats

Setback

Setback

Setback

Setback

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANC Project Name: Project Address:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

I. SYSTEM CONTROLS pace conditionina systems. 01 03 System Floor Area System Name Zoning Being Served (ft²) AC-MP1 Single zone 25,000 ft2 SHP - A1 Single zone 25,000 ft2 Single zone 25,000 ft2 SHP - A2 Single zone 25,000 ft2 SHP A3

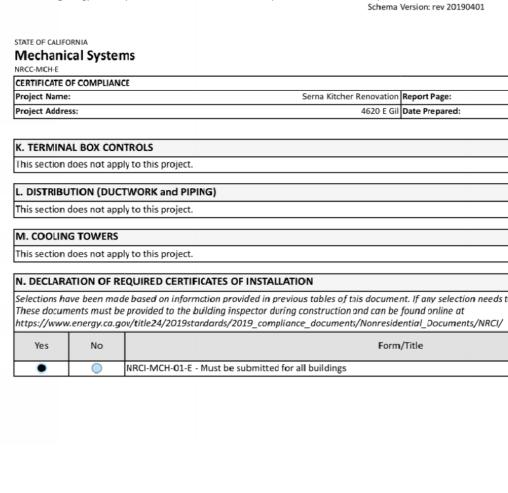
have setback thermostats. EXCEPTION 1 to §140.4(f) J. VENTILATION AND INDOOR AIR QUALITY

	occupancies. For alterations, only ventialtions								
	outdoor ventilation rates and airflows may								
	01		Check the box if t						
	02		Check this box i [:] t						
	03		Check the box if t						
	Nonresidential and Hotel/Motel Ventilation S								

vstems

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance



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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP. 02-118041 INC: CALIFORNIA ENERGY COMMISSION **REVIEWED FOR** NRCC-MCH-E Serna Kitcher Renovation Report Page: (Page 3 of 12) SS 🗹 🛛 FLS 🗹 👘 ACS 🗹 4620 E Gil Date Prepared: 4/3/202 DATE: 04/28/2020 Yes .60000 12491 18000 0 14966 13500 15873 20453 Yes 24982 36000 0 29112 27000 13367 25265 Yes 12491 18000 0 14591 13500 10019 10663 Yes 50 ize, within the available options of the desired eauipment line, necessary to meet the desian heatina and coolina loads of the buildina pe 4 pacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. nue, Suite A 95825 21.2112 2212 tput and load blank. If equipment is cooling only, leave heating output and load blank. calculations used for compliance per §140.4(b) ackage Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP)) 05 06 04 08 09 Heating Mode Cooling Mode Minimum Minimum Efficiency Efficiency Design Efficiency Unit Efficiency Unit N N C G Required per Required per Efficienc Efficiency Tables 110.2 Tables 110.2 / nto, (916.9: 921 Title 20 Title 20 \triangleleft EER AFUE 0.81 0.8 12.9 12 IEER o o o **(**) SEER 13.0 HSPF 8.2 7.7 15 acrame hone: 916 SEER 13.0 8.2 Ê 13.0 15 8.2 7.7 SEER HSPF 30 **г** Ω Ц Ц Registration Provider: EnergySoft Registration Date/Time: Report Version: 2019.0.001 Report Generated: 2020-04-03 13:15:02 Schema Version: rev 20190401 CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Serna Kitcher Renovation Report Page (Page 6 of 12) 4620 E Gil Date Prepared: 4/3/2020 This table is used to demonstrate compliance with mandatory controls in <u>§110.2</u> and <u>§120.2</u> and prescriptive controls in <u>§140.4(f)</u> and (n) or requirements in <u>§141.0(b)2E</u> for altered 05 06 08 09 07 Isolation Shut-Off Supply Air Zone Demand Response Window Interlocks per §110.2(b) & (c)¹, Controls Temp. Reset Controls §120.2(b) <u>§140.4(n)</u> §120.2(e) §140.4(f) §120.2(a)or §141.0(b)2E §120.2(g) Auto Timer NA: Serves NA: Single NA: PTAC, PTHP, RmAC, HP NA: Alteration Project Switch 25k ft2 Zone Auto Timer NA: Serves NA: Single NA: PTAC, PTHP, RmAC, HP NA: Alteration Project Switch 25k ft2 Zone Auto Timer NA: Serves NA: Single NA: PTAC, PTHP, RmAC, HP NA: Alteration Project Switch 25k ft2 Zone Auto Timer NA: Serves NA: Single NA: PTAC, PTHP, Rm AC, HP NA: Alteration Project Switch 25k ft2 Zone FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are nct required to *Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); TION ce with mandatory ventilation requirements in <u>§120.1</u> and <u>§120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required \frown snown on the plans of the calculatons can be presented in a spread \smile KITCHEN RENOVA JOE SERNA SCHO the project is showing ventilation calculations on the plans, or attaching the calculations nstead of completing this table. UMENTATION the project included new or altered high-rise residential dwelling units. the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per \$120 1(c)2. Registration Date/Time: Registration Provider: EnergySoft Report Generated: 2020-04-03 13:15:02 Report Version: 2019.0.001 Schema Version: rev 20190401 CALIFORNIA ENERGY COMMISSION NRCC-MCH-E -24 OCI Serna Kitcher Renovation Report Page (Page 9 of 12) 4620 E Gil Date Prepared: 4/3/202 μŌ CONSULTANT >CAPITAL 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. NGINEERING CONSULTANTS, INC. RANCHO CORDOVA, CALIFORNIA MCM - RL/JSV 191009.00 Field Inspector Form/Title Pass Fail PM - DESIGN TEAM PROJECT NO PROJECT NO. REVISIONS 19-32-050 DATE 04/10/2020 DRAWN RL CHECKED TD SCALE Registration Date/Time: Registration Provider: EnergySoft AS NOTED Report Version: 2019.0.001 Report Generated: 2020-04-03 13:15:02 Schema Version: rev 20190401 CADFILE UPDATED SHEET NO. M 22836 EXPIRES 9/30/20 M7.1

DATE SIGNED: 04/10/2020

OF SHEETS

STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E

CERTIFICATE OF COMPLIANCE Project Name: Project Address:

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 10 of 12)

4/3/2020

		REQUIRED CERTIFICATES OF ACCEPTANCE					
hese docun	nents must	ade based on information provided in previous tables of this document. If any selection needs to be changed, please exolain why in Table be provided to the building inspector during construction and can be found online at gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	e E Additiona	l Remarks.			
Yes	/es No Form/Title						
103	NO	Torny ruc	Pass	Fail			
•	0	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.					
•	0	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Corstant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".					
\bigcirc	•	NRCA-MCH-04-A - Air Distribution Duct Leakage					
\bigcirc	•	NRCA-MCH-05-A - Air Economizer Controls					
•	•	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for al systems required to employ demand controlled ventilation (refer to <u>\$120.1(c)3</u>) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.					
\bigcirc	•	NRCA-MCH-07-A Supply Fan Variable Flow Controls					
\bigcirc	•	NRCA-MCH-08-A Valve Leakage Test					
\bigcirc	•	NRCA-MCH-09-A Supply Water Temperature Reset Controls					
\bigcirc	•	NRCA-MCH-10-A Hydronic System Variable Flow Controls					
\bigcirc	•	NRCA-MCH-11-A Automatic Demand Shed Controls					
\bigcirc	•	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units					
\bigcirc	•	NRCA-MCH-13-A Automa:ic FDD for Air Handling Units and Zone Terminal Units Acceptance					
\bigcirc	•	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes".					
•	•	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Sa't, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to 'Yes".					
\bigcirc	•	NRCA-MCH-16-A Supply Air Temperature Reset Controls					
\bigcirc	•	NRCA-MCH-17-A Condenser Water Temperature Reset Controls					
\bigcirc	•	NRCA-MCH-18-A Energy Management Control Systems					

Serna Kitchen Renovation Report Page:

4620 E Gil Date Prepared:

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.0.301

Schema Version: rev 20190401

Registration Provider: EnergySoft Report Generated: 2020-04-03 13:15:02

January 2016

CERTI	FICATE O	F COMPLIANCE			CALIFORNIA ENERGY COMMISSION NRCC-PLB-01-E						
Water	r Heating	System General Infor	mation		(Page 1 of 2)						
Project Na	Joe Se	rna School		Dat	e Prepared: 12/12/2019						
				•							
A. GEI	NERAL IN	FORMATION/SYSTEM	INFORMATIO	N							
01	Water H	eater System Name:		GWH-A1							
02	Water H	eater System Configur	ation:								
03	Water H	eater System Type:		Domestic Hot Water							
04	Building	Type:		Nonresidential							
05	Total Nu	mber of Water Heater	s in Systems:	1							
_		HW Distribution Type	,								
-+		Unit DHW Distributio									
	biteining										
B. WA	TER HEA	TER INFORMATION									
Each v	water hea	ater type requires a sej	arate compliar	ce document.							
		eater Type:		Large Storage - Gas							
_	Fael Typ			Gas							
-	Nanufad	ture Name:		AO SMITH							
-	Model N			BTH-199							
		of Identical Water Hea		1							
_		Water Heater System	Efficiency:	91% TE							
_		Minimum Efficiency:		82%							
_		Loss Percent or Stand	oy Loss Total:								
	Rated In			199,000							
_	Piot Ene			NA							
_		eater Tank Storage Vo		NA							
_		Insulation on Water H		NA							
_		of Supplemental Stora		NA							
-		Insulation on Supplem		NA							
15	Exterior	Insulation on Supplem	ental Storage:	NA							
Check I For deta Note: Ti	box if wo aied instr he Enforc	ement Agency may requi	and all Energy S	tandards compliance docunents, refer documents to be incorporated onto the							
YES	NO	Doc/Worksheet #	Title								
•	0	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.								
0	۲	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.								
0	۲	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, notel/motel application. Certificate of Installation, required on single dwelling unit systems in high-rise								
0	۲	NRCI-PLB-03-E		nstallation, required on single dwell itel/motel application.	ing unit systems in nigh-rise						
0	۲	NRCI-PLB-21-H	Certificate of	installation, required on HERS verifie otel/motel application.	d central systems in high-rise						
0	۲	NRCI-PLB-22-H	Certificate of		d single dwelling unit systems in high						
	۲	NRCI-STH-01-E		nstallation, required on any solar w							

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E								
CERTIFICATE	OF COMPLIA	NCE						NRCC-MCH
Project Name: Serna Kitchen Renovation Report Page:								
Project Addre	ess:		4620 E Gil D	Date Prepared:				4/3/202
0.050.00								
	ATION OF I	REQUIRED CERTIFICATES OF ACCEPTANCE						
0	•	NRCA-MCH-19-A Occupancy Sensor Controls						
	•	NRCA-MCH-20 Multi-Family Ventilation						
\bigcirc	•	NRCA-MCH-21 Multi-Family Envelope Leakage						
Selections ho	ave been m	REQUIRED CERTIFICATES OF VERIFICATION ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build		, ,		5 , 1 , 1 , ,		
Selections ho These docun drafts can be	ave been mo nents must e found onli	ade based on information provided in previous tables of	ding inspector d ds/2019_compl	during construction. iance_documents/l	. The finsl doo	uments must be creted by a	IERS Providrs re	
Selections ho These docun	ave been me nents must	ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build	ding inspector d	during construction. iance_documents/l	. The finsl doo	uments must be creted by a	IERS Providrs re	gistry, but
Selections ho These docun drafts can be	ave been mo nents must e found onli	ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build	ding inspector d ds/2019_compi Form/1	during construction. iance_documents/I Title	. The finsl doo	uments must be creted by a	IERS Providrs reg	gistry, but
Selections ho These docun dra <mark>fts can be</mark> Yes	ave been mo nents must e found onli No	ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build ine at https://www.energy.ca.gov/title24/2019standard	ding inspector d ds/2019_compi Form/I completed by d	during construction. lance_documents/l Title a HERS Rater	. The finsl doo Nonresidentic	uments must be creted by a	Field In Pass	aistry, but aspector Fail
Selections ho These docun drafts can be Yes	ave been mo nents must e found onli No	ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build ne at https://www.energy.ca.gov/title24/2019standard	ding inspector d ds/2019_compi Form/I completed by d OTE: Must be c	during construction. lance_documents/l Title a HERS Rater completed by a HER:	. The finsl doo Nonresidentic	uments must be creted by a	Field In Pass	spector Fail
Selections ho These docum drafts can be Yes	ave been mo nents must e found onli No	ade based on information provided in previous tables of be completed by a HERS Rater and provided to the build ne at https://www.energy.ca.gov/title24/2019standard NRCV-MCH-04-H Duct Leakaage Test NOTE: Must be NRCV-MCH-24 Enclosure Air Leakaage Worksheet N	ing inspector d ds/2019_compi Form/I completed by d OTE: Must be c ompleted by a	during construction. liance_documents/l Title # HERS Rater Completed by a HERS HERS Rater	. The finsl doo Nonresidentic	uments must be creted by a	Field In Pass	spector Fail
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 I am eligible under Division 3 of the Business at The energy features and performance specifica of Title 24, Part 1 and Part 6 of the California C The building design features or system design f plans and specifications submitted to the erfor I will ensure that a completed signed copy of th 		anical Systems
Project Name: Project Address: DOCUMENTATION AUTHOR'S DECLARATION Documentation Author Name: Company: Capital Engineering Consultants Inc. Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARATION STA I certify the following under penalty of perjury, under the la 1. The information provided on this Certificate of 2. I am eligible under Division 3 of the Business and 3. The energy features and performance specification of Title 24, Part 1 and Part 6 of the California C 4. The building design features or system design f plans and specifications submitted to the erfor 5. I will ensure that a completed signed copy of th inspections. I understand that a completed signer Responsible Designer Name: Thomas A Duval		
Project Address: DOCUMENTATION AUTHOR'S DECLARATION Documentation Author Name: Company: Capital Engineering Consultants Inc. Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARATION ST I certify the following under penalty of perjury, under the la 1. The information provided on this Certificate of 2. I am eligible under Division 3 of the Busines: and 3. The energy features and performance specificat of Title 24, Part 1 and Part 6 of the California C 4. The building design features or system design f plans and specifications submitted to the erfor 5. I will ensure that a completed signed copy of th inspections. I understand that a completed signer Responsible Designer Name: Thomas A Duval		
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Thomas A Duval	l certify 1 1. 2. 3. 4.	
Company:	Thoma	s A Duval
	Company	r.
Address:	Address:	

Registration Number:

CABuilding Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.0.001

Schema Version: rev 20190401

Registration Provider: EnergySoft Feport Generated: 2020-04-03 13:15:02

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

CERTIFICATE	OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-PLB-01
Water Heatin	gSystem General Information	(Page 2 of
Project Name: Joe S	erna School	Date Prepared: 12/19/2019
	ION AUTHOR'S DECLARATION STATEMENT	
 I certify th 	at this Certificate of Compliance documentat	
Documentation Au	tor Name: Aaron Wintersmith	Documentation Author Signature:
Company: Capital	Ingineering	Signature Date: 04/09/2020
Address: 11020 S	un Center DR #100	CEA/ HERS Certification Identification (if a pplicable):
City/State/Tim	nho Cordova CA 95670	Phone: 916-851-3500
RESPONSIBLE	PERSON'S DECLARATION STATEMENT	
I certify the fol	lowing under penalty of perjury, under the la	ws of the State of California:
	ration provided on this Certificate of Complia	
identified	on this Certificate of Compliance (responsible	
system de		naterials, components, and manufactured devices for the building design or nee conform to the requirements of Title 24, Part 1 and Part 6 of the
4. The build	ing design features or system design features	identified on this Certificate of Compliance are consistent with the
	of provided on other applicable compliance of cement agency for approval with this building	documents, worksheets, calculations, plans and specifications submitted to
		ficate of Compliance shall be made available with the building permit(s)
		rcement agency for all applicable inspections. I understand that a complete
		d to be ncluded with the documentation the builder provides to the buildin
owner at	occupancy.	Responsible Designer Signature:
	Name: Thomas A Duval	Contra le
	lEngineering	Date Signed: 0 4 / 0 9 / 2 0 2 0
Company : Capita	lEngineering in Center Dr #100	Date Signed: 0.4 / 0.9 / 2020

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 FILE NO. 39-50 APP NO. 02-118041

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR

SS 🗹 🛛 FLS 🗹 🔹 ACS 🗹

APP. 02-118041 INC:

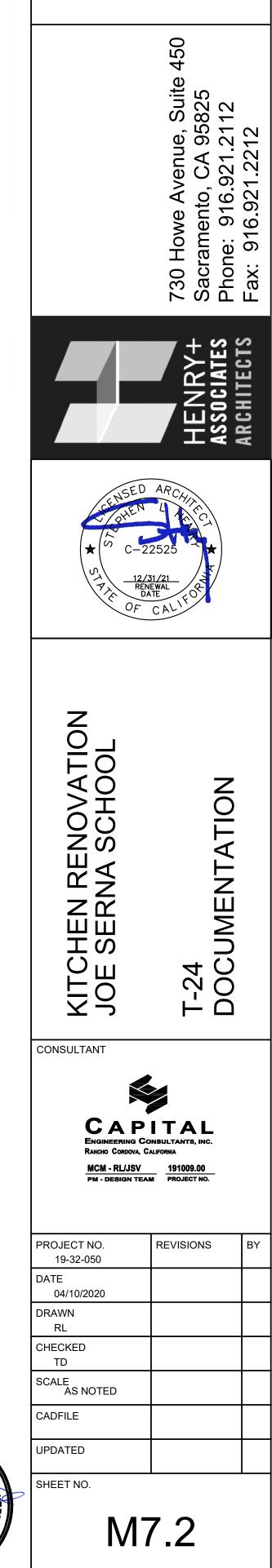
DATE: 04/28/2020

		CALIFORNIA ENERGY COMMISSION
		NRCC-MCH-E
Serna Kitcher Renovation	Report Page:	(Page 12 of 12)
4620 E Gil	Date Prepared:	4/3/2020
ARATION STATEMENT		and the second
	Documentation A	uthor Signature:
	Signature Date:	04/03/2020
	CEA/ HERS Certific	cation Identification (if applicable):
	Phone:	
ON STATEMENT		
der the laws of the State of California:		
ificate of Compliance is true and correct.		
usiness and Professions Code to accept responsibility for the build	ling design or syste	m design identified on this Certificate of Compliance (responsible designer)
specifications, materials, components, and manufactured device lifornia Code of Regulations.	s for the building d	esign or system design identified on this Certificate of Compliance conform to the requirements
n design features identified on this Certificate of Compliance are o		information provided on other applicable compliance documents, worksheets, calculations,
the enforcement agency for approval with this building permit ap		
		https://www.endition.com/action action/ action/acti action/actio
	Responsible Desig	ner Signature
	Date Signed: 2020-04-03	
	License: M22836	
	Phone:	

Registration Date/Time: Report Version: 2019.0.001

Schema Version: rev 20190401

Registration Provider: EnergySoft Report Generated: 2020-04-03 13:15:02





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PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION								
	100									
	ABC AFF	ABOVE CEILING ABOVE FINISHED FLOOR								
	AF , BF	ABOVE FLOOR , BELOW FLOOR								
N 1	AD , AP	ACCESS DOOR , ACCESS PANEL								
	BV	BALL VALVE								
	BFF	BELOW FINISHED FLOOR								
<u>l</u>		BRANCH - TOP CONNECTION								
		BRANCH - BOTTOM CONNECTION								
or		BRANCH - SIDE CONNECTION								
]	COP CW	CAP ON END OF PIPE COLD WATER								
	CD	COLD WATER CONDENSATE DRAIN LINE								
	DN	DOWN								
	DFU	DRAIN FIXTURE UNIT								
PCD	PCD	PUMPED CONDENSATE DRAIN								
	CO	CLEANOUT								
		EXISTING TO BE REMOVED								
	(E)	EXISTING TO REMAIN								
-++++++++++++++++++++++++++++++++++++++	(E)	EXISTING TO BE ABANDONED, CAP WHERE SHOWN								
	EWH	ELECTRIC WATER HEATER								
FF=		FINISHED FLOOR ELEVATION								
FU	FU	FIXTURE UNIT								
Ø	FCO	FLOOR CLEANOUT								
	FD FS	FLOOR DRAIN FLOOR SINK								
	го	FLOOR SINK FLOW IN DIRECTION OF ARROW								
FV , FT	FV , FT	FLUSH VALVE , FLUSH TANK								
(FA) , (TA)	(FA) , (TA)	FROM ABOVE , TO ABOVE								
(FB) , (TB)	(FB) , (TB)	FROM BELOW , TO BELOW								
ŀŹı	GSCK , PC	GAS COCK , PLUG COCK								
	G	GAS - LOW PRESSURE								
R	GPR	GAS PRESSURE REGULATOR								
	0.514	GATE VALVE, BALL VALVE, SHUT OFF VALVE								
Ø	GPM GCO	GALLONS PER MINUTE GRADE CLEANOUT, EXTERIOR								
GW	GW	GREASE WASTE PIPING								
	HB	HOSE BIBB								
	HW	HOT WATER PIPING								
	HWR	HOT WATER RETURN								
	IW	INDIRECT DRAIN , CONDENSATE DRAIN								
	IE or INV	INVERT ELEVATION								
	L	LAVATORY SINK								
	LL, DL	LONGEST LENGTH (GAS), DEVELOPED LENGTH								
MG	MG	MEDIUM PRESSURE GAS								
	(N) , (E)	NEW, EXISTING								
	(NTS) OH	NOT TO SCALE OVERHEAD								
OFL	OFL	OVERFLOW RAINWATER LEADER								
	OD	OVERFLOW DRAIN								
•	POC	POINT OF CONNECTION, NEW TO EXISTING								
———— P & TRV———	P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING								
	PRV	PRESSURE REDUCING VALVE								
	RWL	RAINWATER LEADER								
	WH	RECESSED BOX HOSE BIBB OR WALL HYDRANT								
*	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE								
	(R) , (D)	RISE , DROP RISER DOWN (ELBOW)								
o		RISER UP (ELBOW)								
_	RD	ROOF DRAIN								
——————————————————————————————————————		SOLENOID VALVE WITH MOTOR ACTUATOR								
SD	SD	STORM DRAIN								
o	S or SK	SINK								
Ŧ	TP	TRAP PRIMER								
TP										
II	TYP UN	TYPICAL UNION OR FLANGE								
·	UG	UNDERGROUND								
	UR	URINAL								
\$		VALVE IN RISER (TYPE AS INDICATED OR NOTED)								
Š	VB	VALVE IN VALVE BOX								
	V	VENT PIPING								
V , VR , VTR		VENT , VENT RISER , VENT THRU ROOF								
·	WCO	WALL CLEANOUT								
	WC	WATER CLOSET								
	WH									
	W OR SS	SOIL, WASTE OR SANITARY SEWER								
	WHA									
∝	WSFU	CW & HW FIXTURE CONNECTION STUB OR ANGLE STOP WATER SUPPLY FIXTURE UNIT								

PIPING, DUCTWORK & ELECTRICAL **DISTRIBUTION SYSTEM BRACING NOTE**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.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 PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM). 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): MPIT MDIT PPIT FIT OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES

	AND DETAILS
MP MD PP X E	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13 BY MASON INDUSTRIES, INC.
MP MD PP	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

		TABLE GAS LOAD COM				
BUILDING	EQUIPMENT	EQUIPMENT DESCRITION	MBH EACH	QTY	MBH TOTAL	MBH TOTAL/GPR
BDEF	WAC-B1	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-D1	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-D2	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-E1	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-E2	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-E3	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-E4	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-F1	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-F2	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-F3	MECHANICAL AC UNIT	1.00	50	50.00	
BDEF	WAC-F4	MECHANICAL AC UNIT	1.00	50	50.00	
					BRANCH 1	550.00
////		//////	//////	//////	//////	
KITCHEN	P5	OPEN BURNER WITH OVEN	1.00	163	163.00	
KITCHEN	P7	TILT SKILLET	1.00	144	144.00	
KITCHEN	P8	STEAMER	2.00	60	120.00	
KITCHEN	P9	DOUBLE STACK OVEN	2.00	63	126.00	
KITCHEN	P10	DOUBLE STACK OVEN	2.00	60	120.00	
KITCHEN	GWH-A1	GAS WATER HEATER	1.00	200	200.00	
KITCHEN	(E)AC-10	MECHANICAL AC UNIT	1.00	250	250.00	
KITCHEN	AC UNIT	MECHANICAL AC UNIT	1.00	200	200.00	
					BRACH 2	1323.00
					TOTAL	1873.00
					MIN METER CAPACITY	3000.00

BUILDING SECTION 02700 GOVERNS. ON SHEET FS2.00.

SIZE.

PRO-SET, OR EQUAL.

- WITH CHAPTER 7, CBC REQUIREMENTS.
- NOISE AND TO PROVIDE WATERPROOFING.

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

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

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PLUMBING GENERAL NOTES

SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.

COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.

CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.

PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.

5. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.

PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.

DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS TO WITHSTAND 0.29 LATERAL AND VERTICAL LOADS.

PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED

PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.

10. OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.

11. CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.

12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.

13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.

14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.

15. BUILDING SEWER, WATER AND STORM DRAIN RUN APPROXIMATELY 5' MIN. FROM BUILDING, SECTION 15400 APPLIES TO UTILITIES IN THE BUILDING, UNDER THE BUILDING AND TO 5' OUTSIDE THE BUILDING, BEYOND THE 5' OUTSIDE OF THE

16. CONTRACTOR TO COORDINATE PLUMBING REQUIREMENTS FOR FOOD SERVICE EQUIPMENT. REFER TO PLUMBING NOTES

FIRESTOPPING

1. PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M

A. INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.

2. PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE

3. SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.

4. COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE

5. ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 6. ALTERNATE FIRESTOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.

MEP COMPONENT ANCHORAGE NOTE

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400



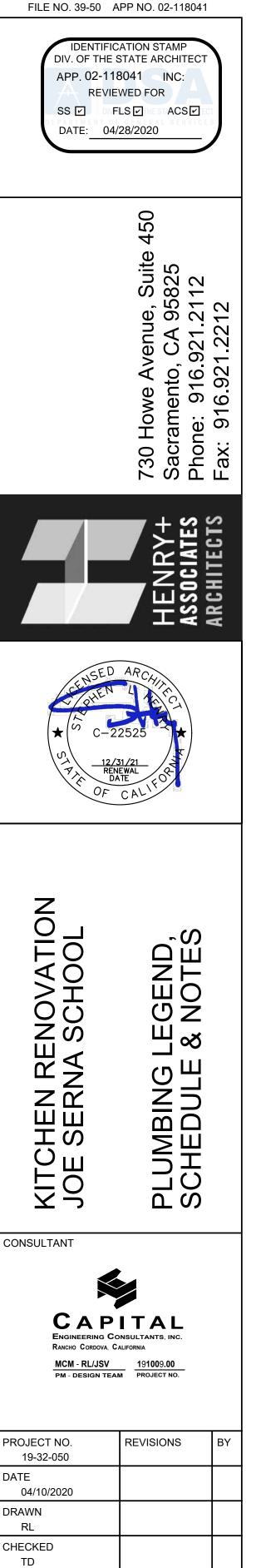
SCALE AS NOTED

CADFILE

UPDATED

SHEET NO.

P0.1



DATE SIGNED: _____04/10/2020

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INI	INI %								

	GREASE INTERCEPTER SCHEDULE										GAS V	VATEF	RΗ	EATEF	R SCH	EDULI	E	
UNIT	LOCATION	"JENSEN" MODEL NO.	GALLONS	DETAIL	NOTES	UNIT	LOCATION	"AO SMITH" MODEL NO.	STORAGE CAPACITY GALLONS	BTUH INPUT	RECOVERY GALLONS @ 100 F RISE		GAS CONN	ELECTRICAL REQ'S	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
GI	MP BLDG	JP1000EPE-G	1000	5 P5.1	COORDINATE ELEVATIONS AT SITE. PROVIDE GRADE RINGS NECESSARY. H-20 FRAME AND MANHOLE COVER TO BE FLUSH WITH GRADE.	GWH A1	BLDG A KITCHEN	BTH-199	100	199,900	235	140	3/4"	120VAC 1PH 15AMP	1200	1 P5.1	4 P5.1	PROVIDE INTAKE AND EXHAUST VENT TO OUTSIDE, DRAIN PAN AND PLATFORM TO RAISE WATER HEATER TO SLOPE DRAIN FROM PAN TOWARDS DRAIN. WATER HEATER MUST BE WIRED TO A 120VAC 60HZ ON A SEPARATE CIRCUIT AND BREAKER. PROVIDE ACID NEUTRALIZING KIT ON CE

ITEM #	PLUMBING FI	KTURE		F		<i>,</i>	DFU/FIXTU	IRE	DFU TOTAL			
1	3 COMP SINK	(TO FS)			1		4		4			
2	2 COMP SINK	(TO FS)			0		3		0			
3	PRE-RINSE SI	NK			1		2		2			
4	PREP SINK				1		2		2			
5	HAND SINK				1		2		2			
6	SERVICE SIN	<			1 3				3			
7	2" FLOOR SIN	К			1 2				2			
8	3" FLOOR SIN	3" FLOOR SINK 4" FLOOR SINK					3		0			
9	4" FLOOR SIN		0		4		0					
10	FLOOR DRAIN				4		2		8			
11	FLOOR TROU	GH			1 4				4			
12	DISHWASHER	S - TO SAN	ITARY SEWEF	२	0		-		-			
13	GLASSWASHE	ERS*			0		-		-			
							TOTAL		27			
		CPC 2016	6 TABLE 1014	.3.6 GRAVII	TY GREASE	INTERCEP	TOR SIZING					
DFU	8	21	35	90	172	216	307	342	428	576		
NTERCEPTO VOLUME (GALLONS)	R 500	750	USE 1000	1250	1500	2000	2500	3000	4000	500		

QUANTITIES OF HOT SOAPY WATER FROM DISHWASHERS & GLASSWASHERS MAY MELT AND EMULSIFY OILS INSIDE THE GREASE INTERCEPTOR REDUCING EFFECTIVENESS OF THE INTERCEPTOR.

		TI	EMPERA	ΓURE	MIXIN	G VA	LVE		E
_	UNIT	LOCATION	"POWERS" MODEL NO.	OUTLET SIZE	PSI DROP @ GIVEN GPM	MIN. GPM	NOTES	UNIT	LOCATION
	TMV A1	BLDG A KITCHEN	LFMM434HL	1 <mark>½</mark> "OUTLET	5 PSI @ 56GPM	.5	KITCHEN OUTPUT TEMP SET FOR 120°F	ET A1	BLDG A KITCHEN

UNIT LOCATION MANUF & REGULATED TEMPERATURE VOLTAGE AMP/FT. AMP CB mA-GFPE RATIN	HEAT TRACE CABLE SCHEDULE									
	UNIT	LOCATION	MODEL		VOLTAGE	AMP/FT.	AMP CB	mA-GFPE RATING		
HTC A1FREEZERRAYCHEM XL-TRACE40°F120V/1Ø.1191530	$I \longleftrightarrow$	FREEZER		40°F	120V/1Ø	.119	15	30		

BASIS OF DESIGN: RAYCHEM - HEAT TRACE SYSTEM HTC-J1 AT -20F MIN AMBIENT TEMP. CONTROLLER: RAYCHEM ECW-GF ELECTRONIC ADJUSTABLE SETPOINT TH

RAYCHEM ECW-GF ELECTRONIC ADJUSTABLE SETPOINT THERMOSTAT WITH BUILT IN GFEP. MUST HAVE SETPOINT CAPABILITY OF AT LEAST 40°F. LOCATE CONTROLLER CLOSE TO HEAT TRACE. COORDINATE EXACT LOCATION AT SITE.

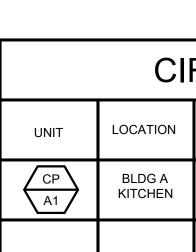
<u>NOTES:</u> 1. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. 2. PROVIDE DIAGRAM & LAYOUT FOR APPROVAL. SEE SPECIFICATIONS FOR MORE INFORMATION.

14 Mg 40	· min and
	PROSET
	PROTECTION

ProSet FIRESTOP WALL PENETRATOR GUIDE Penetrators through Masonry & Gypsum Walls

Recommended drawing numbers are shown below Other options may be available

Size	Type of Wall	Copper	Steel	CPVC	PVC Pressure	PVC/ABS DWV	Other
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Multiple Pip
1/2"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	A-1003-ax
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	Chilled Wate
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	A-1000-a
3/4"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Glass Pipe
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1015-a
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Waterproof
1"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Thru-pipe
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1017-g
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Optional Wal
1 1/4"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Sleeve Faster
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	For Gypsum
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	A-1012-f an
1 1/2"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	A-1013-f or
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1014-f an
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1015-f
2"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	polypropyle
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	Acid waste
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	C-9049-f
2 1/2"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	C-9049-g
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	Polyethylen
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1011-a
3"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	A-1011-g
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	A-1012-f or
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1013-f
4"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	Insulated pi
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	A-1004-a
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	N.A	A-1010-ai
5"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	N.A	Refrigeratio
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	N.A	A-1003-a
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	N.A	
6"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	N.A	
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	N.A	
Plun		tlet 3" or 4" Water Clos	ets See ProSe	Sub Outs: Use Pro t Drawing No. C-4492 e, GA 30043-5866 1-		-	12-f

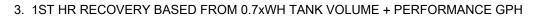


SYMBOL	FIXTURE NAME	QTY	USER HW TEMP	GPH EACH @ USER TEMP	GPH EACH @ WH TEMP	GPH TOTAL ITEM	PE
LAV	COMMERCIAL - LAVATORY	1.00	120.00	6.00	4.59	4.59	
S-3	STAFF SINK	1.00	105.00	10.00			
					5.88	5.88	
P4	HAND SINK	2.00	105.00	6.00	3.53	7.06	
SS-1	SERVICE SINK	1.00	110.00	20.00	12.94	12.94	
P7	POT FILLER/TILT SKILLET	1.00	120.00	6.00	4.59	4.59	
DIPPER WELL	HOT FOOD STATION	0.00	120.00	6.00	4.59	0.00	
P11	PREP SINK	1.00	120.00	45.00	34.41	34.41	
SINGLE POT SINK	SINGLE POT SINK	0.00	120.00	30.00	22.94	0.00	
DOUBLE POT SINK	DOUBLE POT SINK	0.00	120.00	60.00	45.88	0.00	
P13/P14	TRIPLE POT SINK	1.00	120.00	90.00	68.82	68.82	
P14	PRE-RINSE UNIT	1.00	120.00	45.00	34.41	34.41	
CAN WASH UNIT	CAN WASH UNIT	0.00	120.00	45.00	34.41	0.00	
P12	WAREWASHER - HOBART AM15VLT	1.00	140.00	29.60	29.60	29.60	
HOSE REEL	HOSE REEL	0.00	120.00	20.00	15.29	0.00	
					TOTAL GPH	202.31	
INLET TEMP		55.00		TANK VOL	100	GALLON	
		140.00		±1ST HR	343.99	GALLON	
WH TEMP				RECOV			>
TEMP DIFF		85.00		1MBH =	1000	BTUH	
WATER HEATER E	FFICIENCY	0.970					
GPH USAGE DIVER	RSITY FACTOR	1.00					
GPH WITH DIV FAC	CTOR = TOTAL GPH X FACTOR	202.31					
GAS INPUT =	GPH X TEMP DIFF X 8.33LBS/GAL X	1BTU/LB/°F /	WATER HEATER	EFF			
=	147,672.87	BTUH					
=	147.67	MBH					
USE =	200.00	MBH					
	273.99	GPH RECO	VERY EQUIV @	CONSTANT EFF	@ TEMP DIFF A	BV	

2. WARNING: PER ASHRAE CHAPTER 50 FIGURE 9, IT TAKES ABT 10 MINS TO CAUSE 3RD DEGREE BURNS USING 120F HOT WATER. FOR 140F HOTWATER, IT ONLY TAKES ABOUT 5 SECONDS TO DO SAME DAMAGE. PLEASE LIMIT HOT WATER TEMP THRU USE OF THERMOSTATIC MIXING VALVES OR USE OF INTEGRAL LIMITING DEVICE IF AVAILABLE.

Ε	XPANSIC		NK SCI	HEDUI	_E
ON	"AMTROL" MODEL NO.	TANK VOLUME GALLONS	MAX. ACCEPT. VOLUME	DETAIL	NOTES
A EN	THERM-X-TROL ST-12	4.4	3.21	2 P5.1	3/4"NPTM CONNECTION, 11"DIAMETER. OPERATING WEIGHT 40LBS

F	RCULATI	ULATING PUMP SCHEDULE								
	"B&G" MODEL NO.	GPM	FT OF HEAD	WATTS	VOLTAGE	CONTROLS	NOTES			
	NBF-12U	5	8.0	55	115V/1Ø	1 M6.2	9.5 LBS; 0.48FLA CONNECT TO BMS			





DIV. OF THE S APP. 02-118 REVIE SS I	ATION STAMP STATE ARCHITEC 3041 INC: WED FOR LS ACS 28/2020	ECT			
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 916.921.2212			
	HENRY+ Associates	ARCHITECTS			
\v_\	ARCHITCO 2525				
KITCHEN RENOVATION JOE SERNA SCHOOL PLUMBING EQUIPMENT SCHEDULES					
CONSULTANT	alifornia				
PROJECT NO. 19-32-050	REVISIONS	BY			
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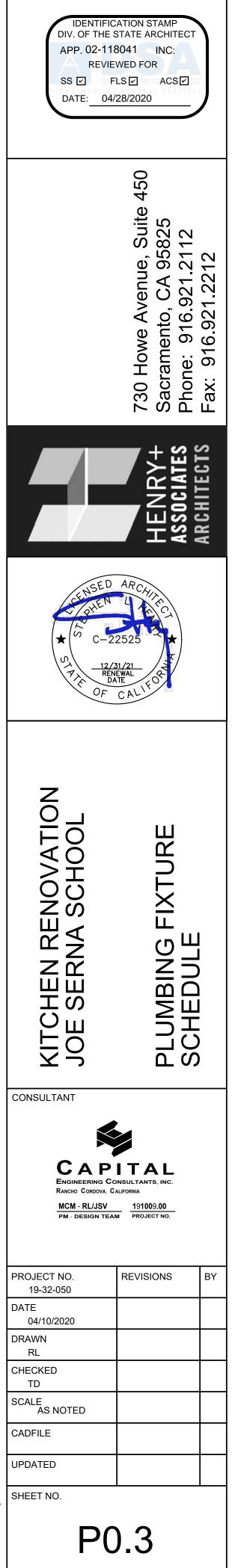
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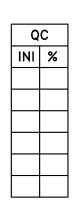
ADA	SYMBOL	FIXTURE	FIXTURE	FAUCET OR VALVE	TRIM	REMARKS	VENT	WA WA	STE	COLD	NATER	HOTV	VATER
			MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.			BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLE
E	WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ACCESSIBLE	"AMERICAN STANDARD" MADERA EL NO. 3461.001, 1.28 GPF FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT.	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/2"	1"		
B	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"MOEN" 8886 NEWER VERSION FAUCET, TWO-HANDLE ADA METERING FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION, 4" CENTERSET, VANDAL RESISTANT, 0.5GPM MAX. PROVIDE AASE 1070 TMV. ADJUST OUTLET WATER TEMPERATURE TO COMFORTABLE TEMPERATURE OR NO MORE THAN 110° F.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J R SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
•	MS-1	SERVICE SINK WALL MOUNTED HOT AND COLD WATER JANITORS	"AMERICAN STANDARD" 7695.00, ENAMELED INSIDE CAST IRON.	"CHICAGO" MODEL 897-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.	PROVIDE CONNECTION TO CLEANING EQUIPMENT	AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON SIDES ADJACENT TO WALLS.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
Ē	S-1	SINK COUNTER MOUNTED HOT AND COLD WATER ADMIN/CONF./NURSE	"ELKAY" MODEL LRAD191965, 19" FRONT TO BACK, 19" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE SINGLE FAUCET HOLE. PROVIDE REAR DRAIN LOCATION. PROVIDE SLOT AT FAUCET FOR VANDAL RESISTANT PINS.	"CHICAGO" ECAST MODEL 50-E35ABCP(VVAVVP) GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR AND RIGID/SWING FAUCET. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"ELKAY" MODEL LKAD35, OFFSET CRUMB CUP STRAINER WITH REMOVABLE BASKET AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.		1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
٢	FD	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-415, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM.FD IN COMPOSITION TYPE FLOORS - ZURN MODEL Z-415, OR EQUAL, WITH TYPE SL STRAINER.FD IN RESINOUS/EPOXY TYPE FLOORS - ZURN MODEL Z-415BL, OR EQUAL, NICKEL BRONZE WITH ADJUSTABLE STRAINER.				2"	2"	2"	-	-	-	-
<u> </u>	TP	TRAP PRIMER	MIFAB "M-500" SERIES, REQUIRES 3PSI DROP TO ACTIVATE.				-	-	-	1/2"	1/2"	-	-
_ 中 _	TP-2	TRAP PRIMER	SIOUX CHIEF 695-ES01 ELECTRONIC TRAP PRIMER. 120VAC 9.2WATTS.			SEE DETAIL 1/P5.2	-	-	-	1/2"	1/2"	-	-
모	WHA	WATER HAMMER ARRESTOR	SEE SPECIFICATIONS										
	НВ	HOSE BIBB	INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF WOODFORD MODEL 24PC, OR EQUAL. ROOF MOUNTED - WOODFORD MODEL RHMC-MS, OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	WH	WALL HYDRANT	EXTERIOR WALL MOUNTED RECESSED WOODFORD MODEL B75 SWIVEL INLET OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND LOOSE KEY OPERATION.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	FS	FLOOR SINK	KITCHEN - ZURN MODEL Z-1751, OR EQUAL, 12 INCH x 12 INCH x 8INCH DEEP, 14 GA. TYPE 304 STAINLESS STEEL GRATE, SEDIMENTBUCKET, PROVIDE FUSION JOINT P-TRAP TO MATCH PIPINGSYSTEM. SEE FOOD SERVICE PLANS FOR MORE FS GRATEINFORMATION.KITCHEN COOLER/FREEZER LOCATIONS - ZURN MODELZ-1940IKC-23, OR EQUAL, 6 INCH x 12 INCH x 7-3/4 INCH DEEP,CAST IRON BODY WITH WHITE ACID RESISTING INTERIOR,NICKEL BRONZE FRAME AND GRATE, SEDIMENT BUCKET.PROVIDE FUSION JOINT P-TRAP TO MATCH PIPING SYSTEM.MECHANICAL SPACES - ZURN MODEL ZN-1901-KC-2, OR EQUAL,12 INCH x 12 INCH x 8 INCH DEEP, A.R.E. INTERIOR WITH NICKELBRONZE RIM, HALF GRATE AND DOME STRAINER.OTHER APPROVED EQUAL MANUFACTURERSINCLUDE: JAY R. SMITH, WATTS & MIFAB.	PROVIDE SEEPAGE PAN AND CLAMPING COLLAR.		COORDINATE & PROVIDE GRATES AS REQUIRED PER KITCHEN DRAWINGS				-	-	-	-

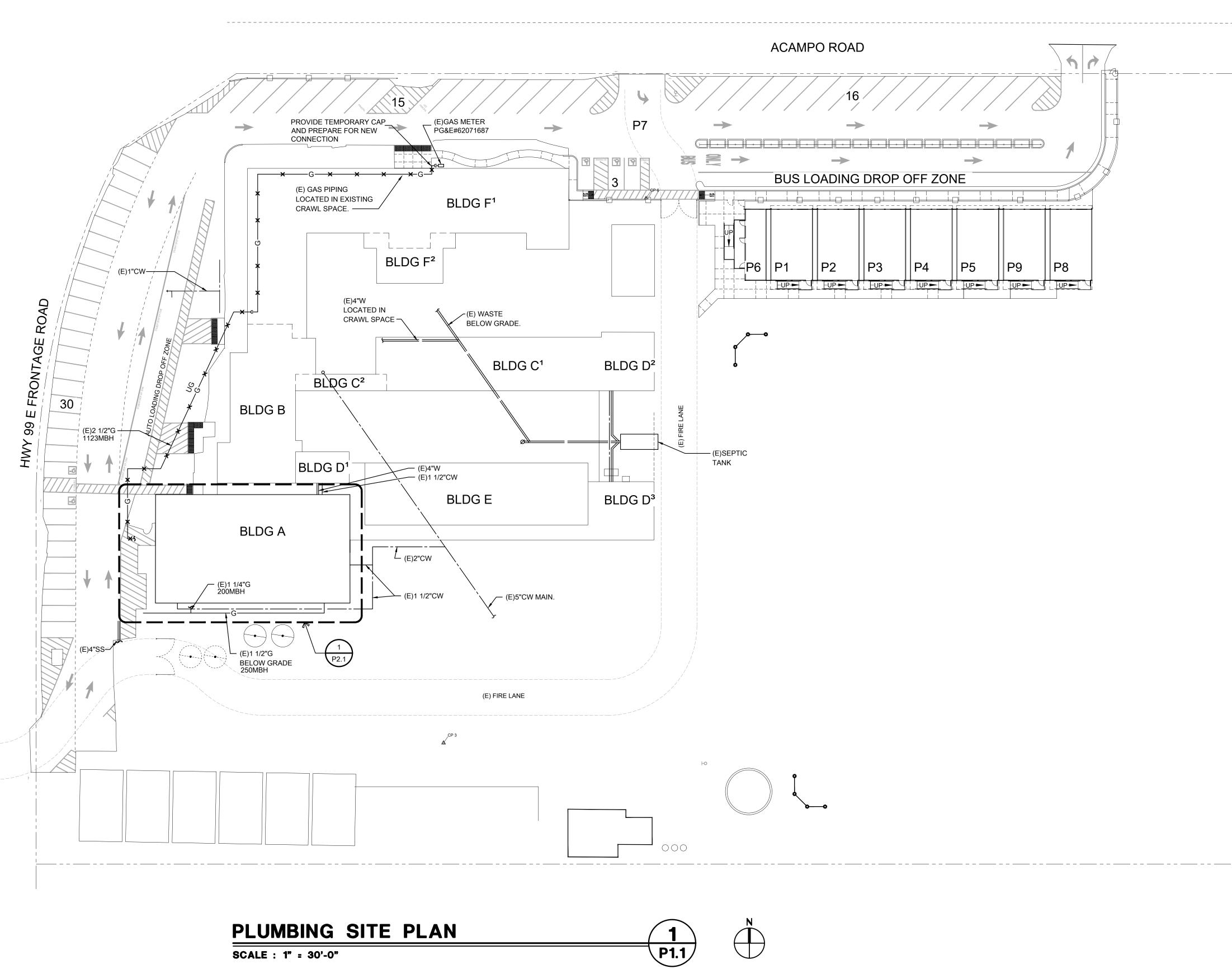
A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.
 B. PROVIDE ALL WATER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

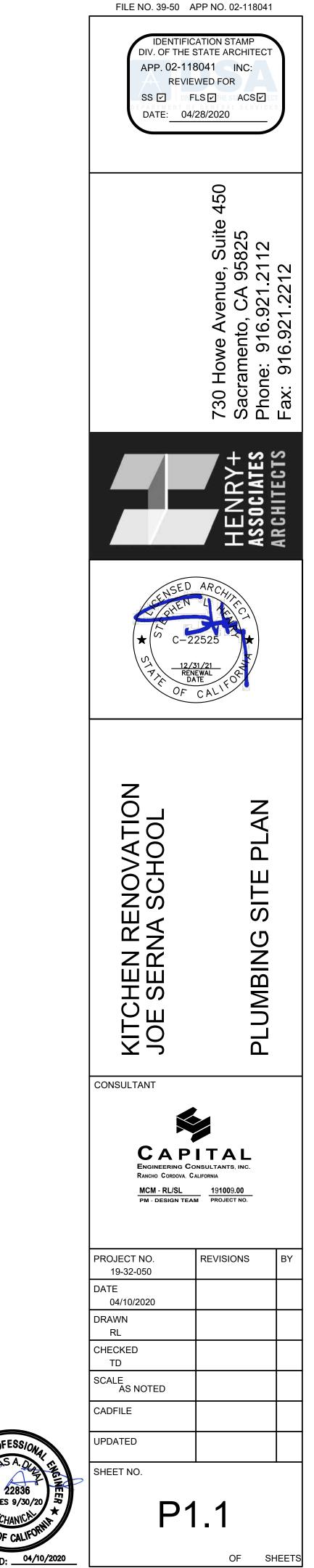
2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH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



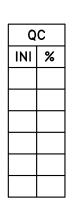


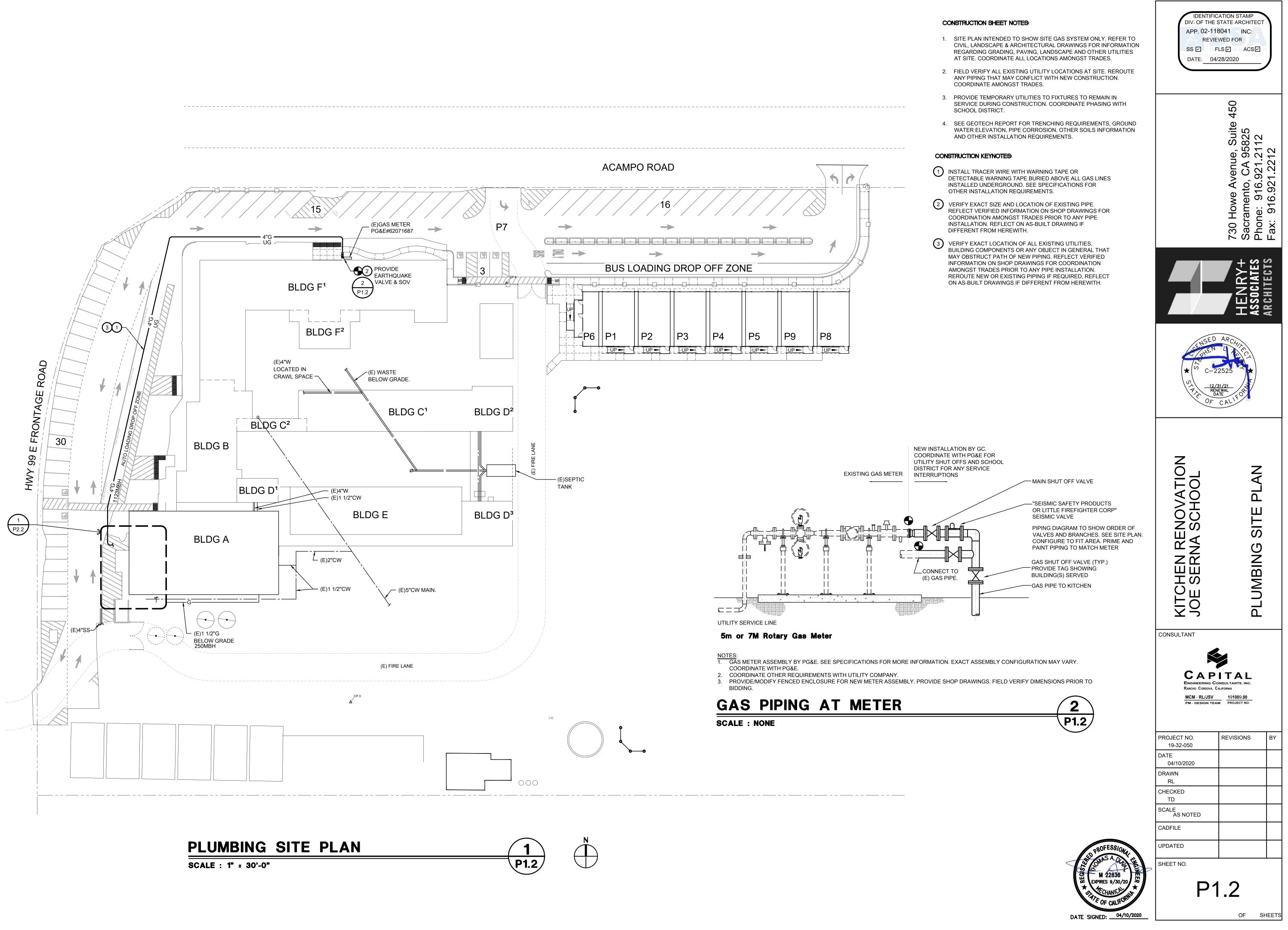


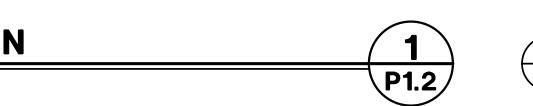


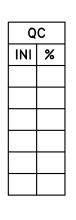


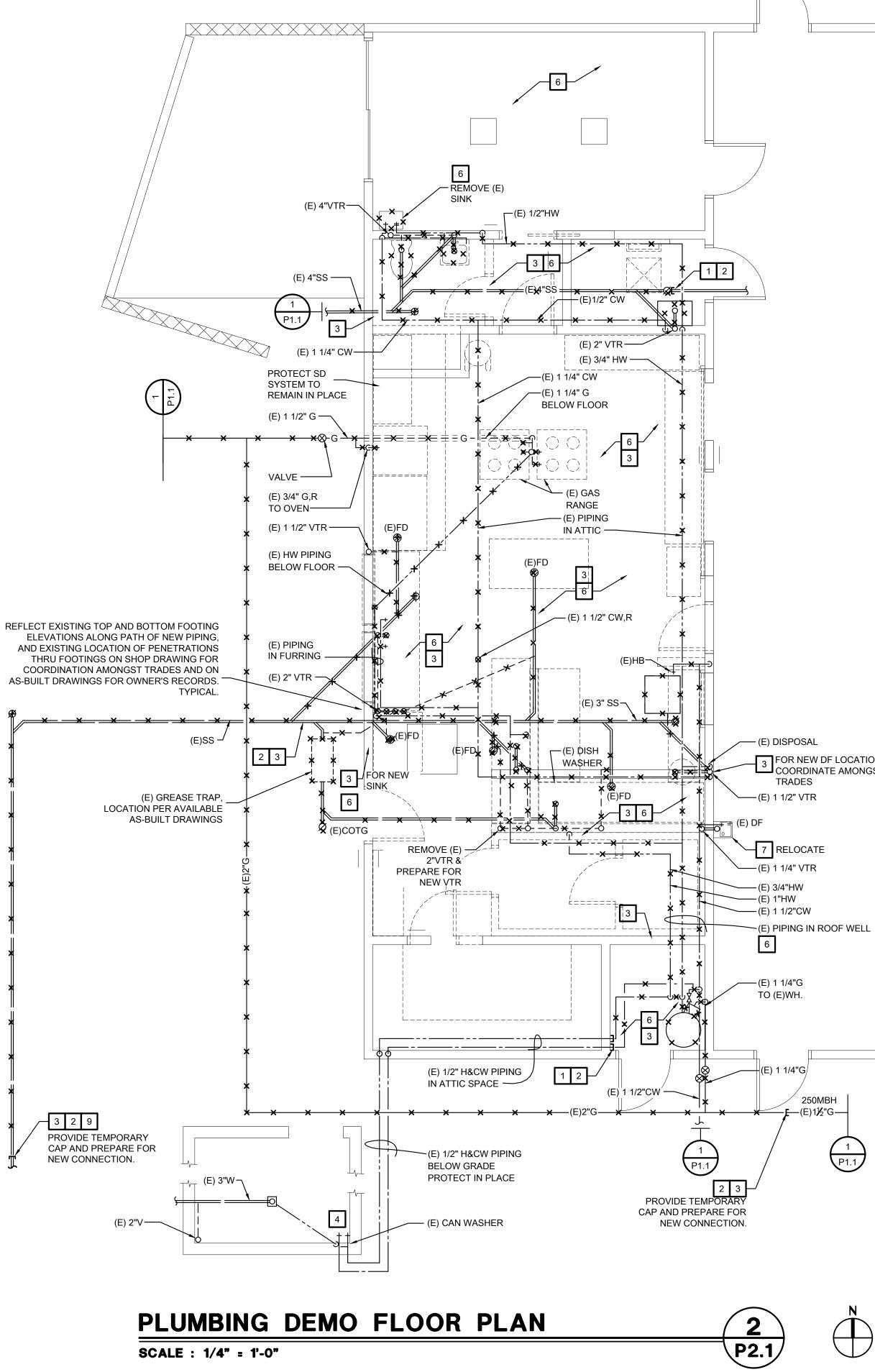
M 22836 EXPIRES 9/30/20 DATE SIGNED: ____04/10/2020

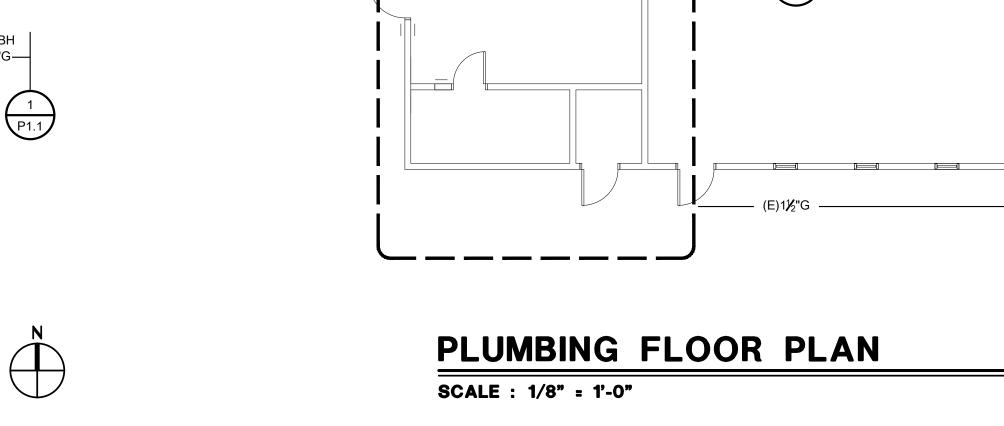






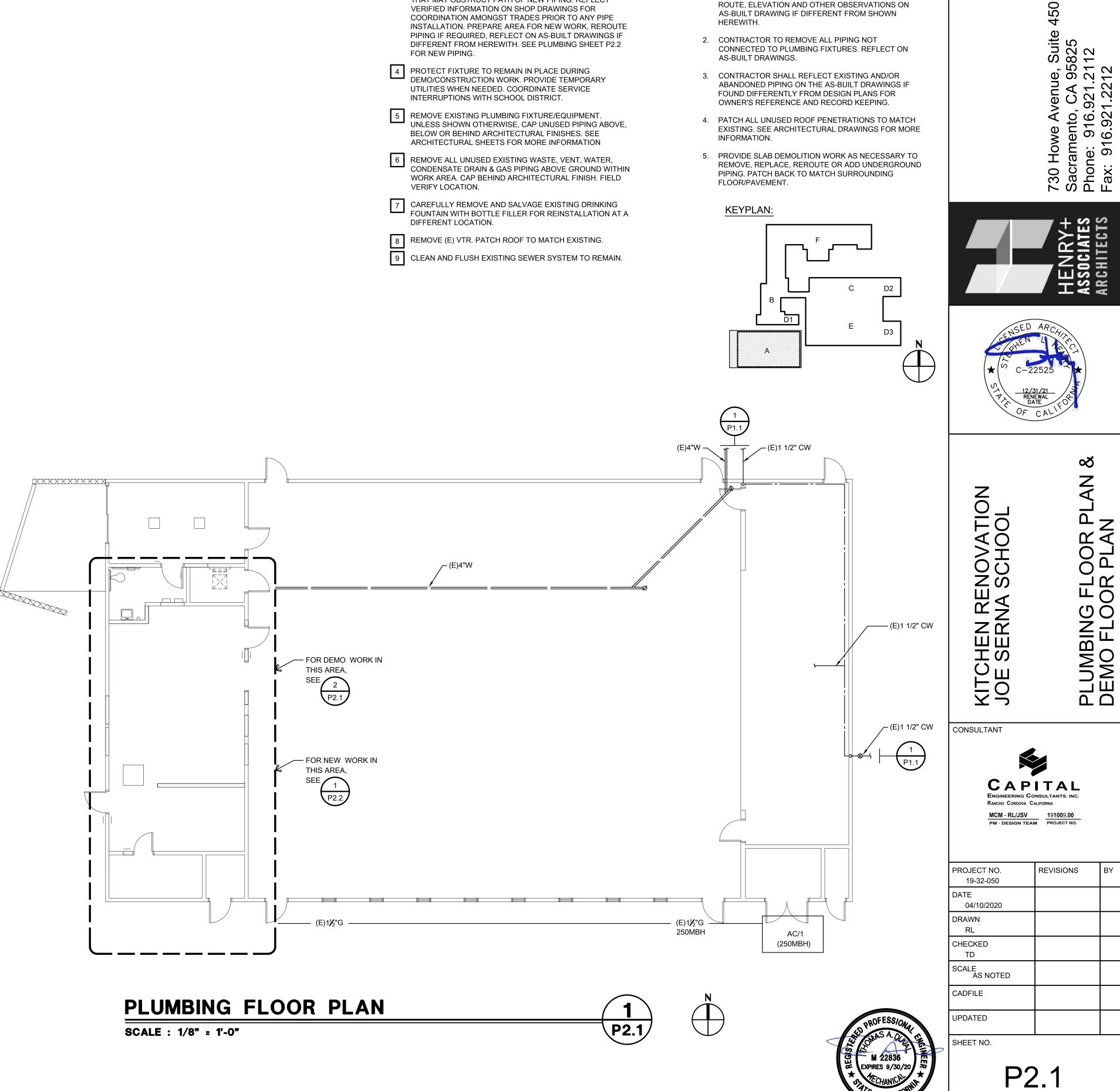






3 FOR NEW DF LOCATION. COORDINATE AMONGST TRADES

> 250MBH —(E)1½"G—



1 PROVIDE TEMPORARY CAP ON (E) PIPING. PREPARE FOR RECONNECTION TO NEW PIPE 2 VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPE. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REFLECT ON AS-BUILT DRAWING IF DIFFERENT FROM HEREWITH. 3 VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT

DEMO KEYNOTES:

- DEMO SHEET NOTES:
- 1. EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES. REFLECT EXISTING

FILE NO. 39-50 APP NO. 02-118041

IDENTIFICATION STAMP

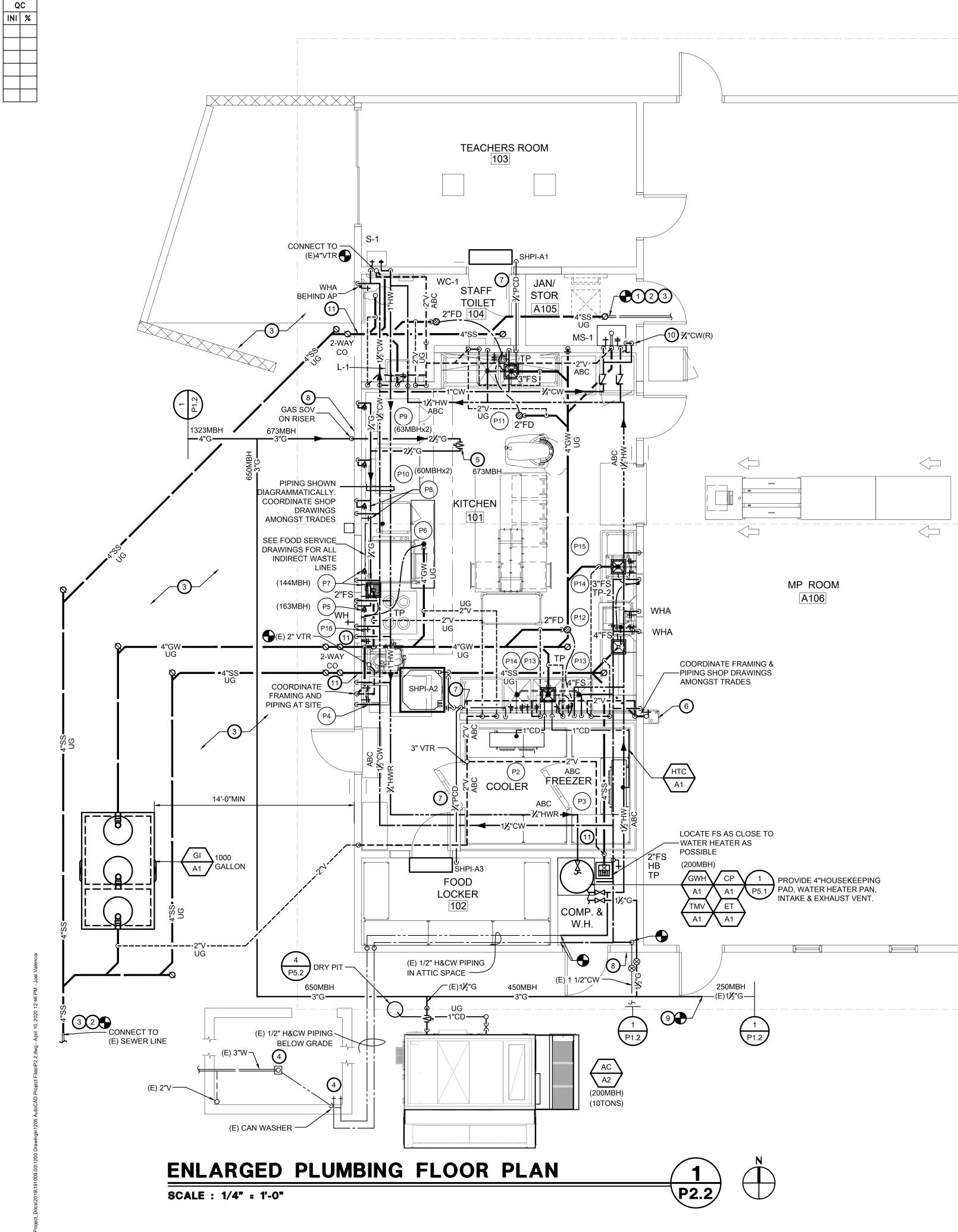
APP. 02-118041 INC:

DATE: 04/28/2020

DIV. OF THE STATE ARCHITECT

REVIEWED FOR

SS 🖸 FLS 🖉 SACS 🗹



	PLUMBING SCHEDULE													
	ITEM.	RECORDETION	оту		TER	WASTE								
PLUM. NO.	NO.	DESCRIPTION	QTY.		I. SIZE	CONN	. SIZE							
110.	110.			C.W.	H.W.	DIR.	INDIR.							
(P2)	2	WALK-IN REFRIGERATOR CONN. DRAIN FROM COIL CONN. + 70"	1EA.	-	-	-	1"							
(P3)	3	WALK-IN FREEZER CONN. DRAIN FROM COIL CONN. + 70"	1EA.	-	-	-	1"							
(P4)	4	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	1EA.	1/2"	1/2"	1 1/2"	-							
(P5)	6	OPEN BURNER RANGE W/ OVEN	1EA.	-	-	-	-							
(P6)	7	FLOOR TROUGH	1EA.	-	-	4"	-							
(P7)	8	TILT SKILLET W/ FILLER	1EA.	1/2"	1/2"	-	-							
(P8)	9	STEAMER, CONVECTION (2) COMPARTMENT	2EA.	3/4"	-	-	3/4"							
(P9)	10	DOUBLE STACK CONVECTION OVEN GAS	2EA.	-	-	-	-							
(P10)	10.1	DOUBLE STACK CONVECTION OVEN GAS	2EA.	-	-	-	-							
(P11)	12	PREP SINK FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	-	2"							
(P12)	23	WARE WASHER, HIGH TEMP	1EA.	1/2"	1/2"	-	1 1/2"							
(P13)	26	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	-	2"							
(P14)	27	PRE-RINSE FAUCET W/ 1/2" INLET 8" CENTER	2EA.	1/2"	1/2"	-	2"							
(P15)	34	SCRAP SINK	1EA.	-	-	-	2"							



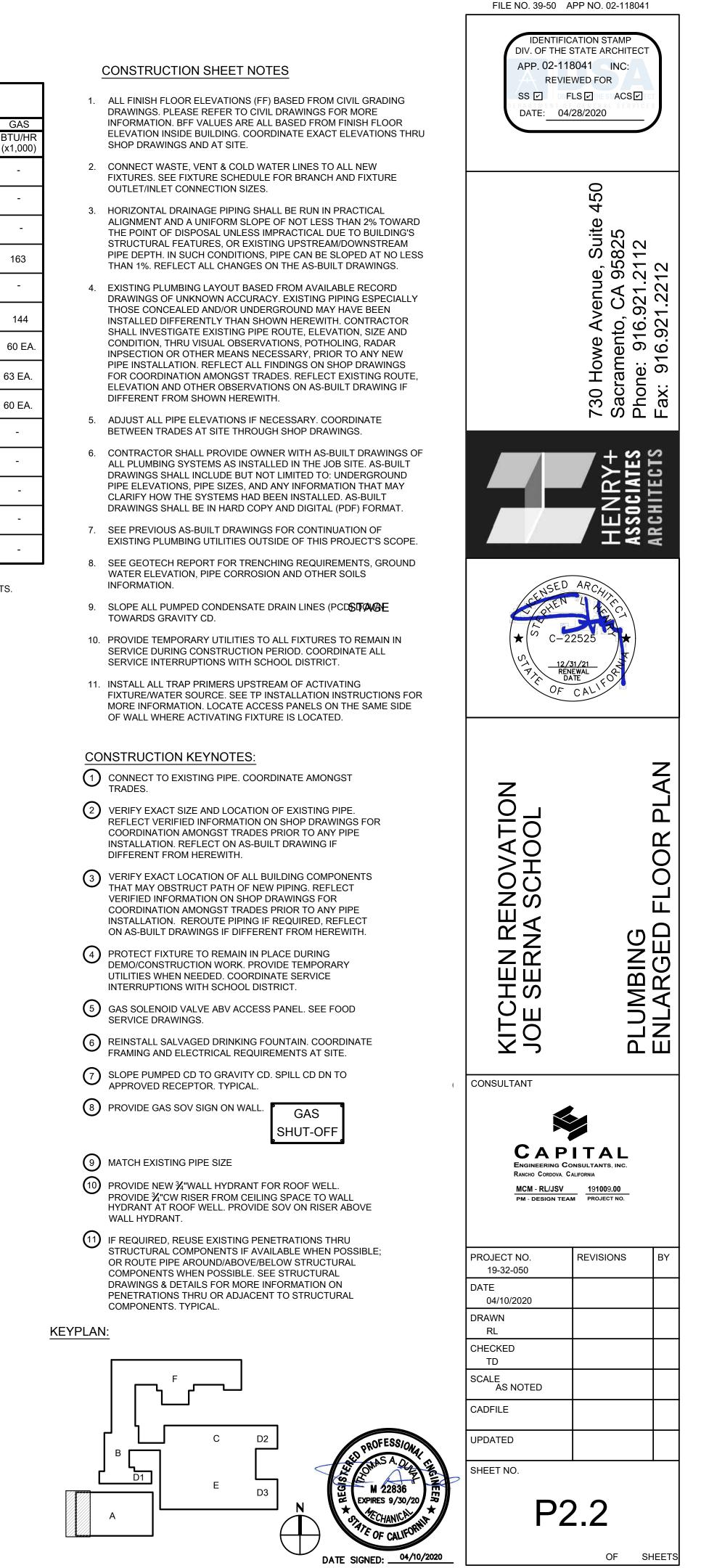
1. SEE FOOD SERVICE DRAWINGS FOR EXACT UTILITY STUB LOCATION AND FOR OTHER PLUMBING REQUIREMENTS. 2. SEE FLOOR PLAN, PLUMBING FIXTURE SCHEDULE OR PIPE SIZE SCHEDULE BELOW FOR MINIMUM PIPE SIZING REQUIREMENT.

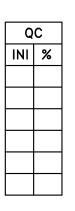
WATER SUPPLY FIXTURE UNITS 3.4PSI/100FT; COPPER L			
PIPE SIZE	HW	CW F TANK	CW F VALVE
1⁄2"	1	1	0
³∕4"	6	6	0
1"	13	13	0
11⁄4"	26	26	0
11⁄2"	46	51	12
2"	119	175	76
2½"	245	406	270
3"	406	719	666
4"	840	1668	1668

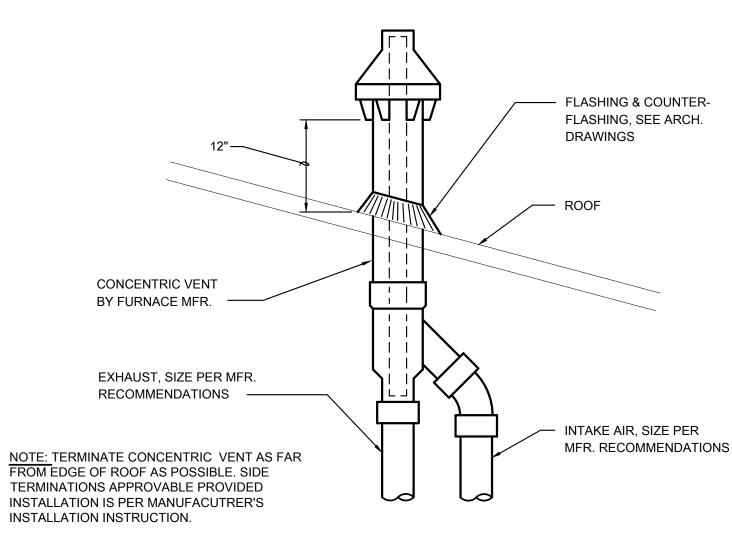
GAS PIPE TABLE 1216.2(1) INLET PRESSURE<2PSI, 0.5WATER COLUMN DROP, SPGR 0.6		
PIPE SIZE	LL<600FT (MBH)	
1⁄2"	19	
3∕4"	39	
1"	74	
11⁄4"	152	
11⁄2"	228	
2"	438	
21⁄2"	699	
3"	1240	
4"	2520	

NOTES:

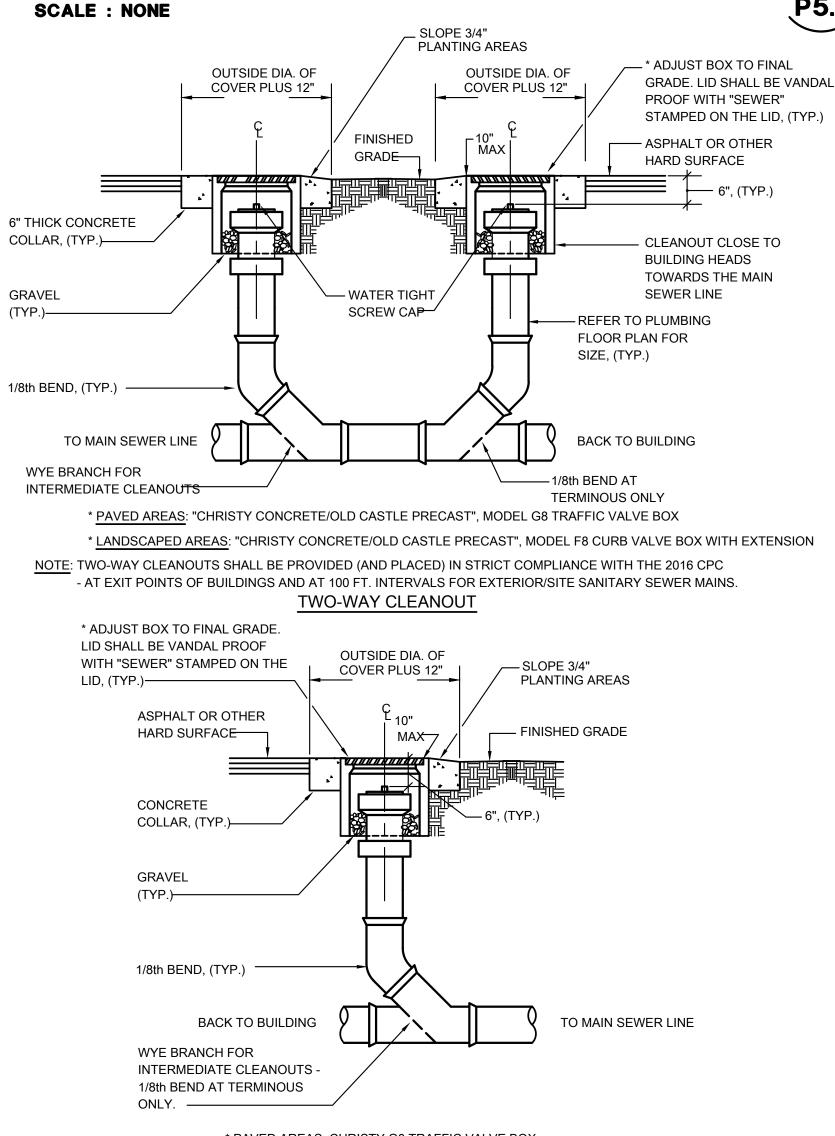
1. PIPING SIZES SHALL BE PER ABOVE TABLE, PER AS SHOWN ON PLUMBING FLOOR PLANS OR PLUMBING FIXTURE SCHEDULE. SHOULD DISCREPANCIES ARISE. THE LARGEST OF WHICH SHALL PREVAIL.







GWH INTAKE & EXHAUST PIPING



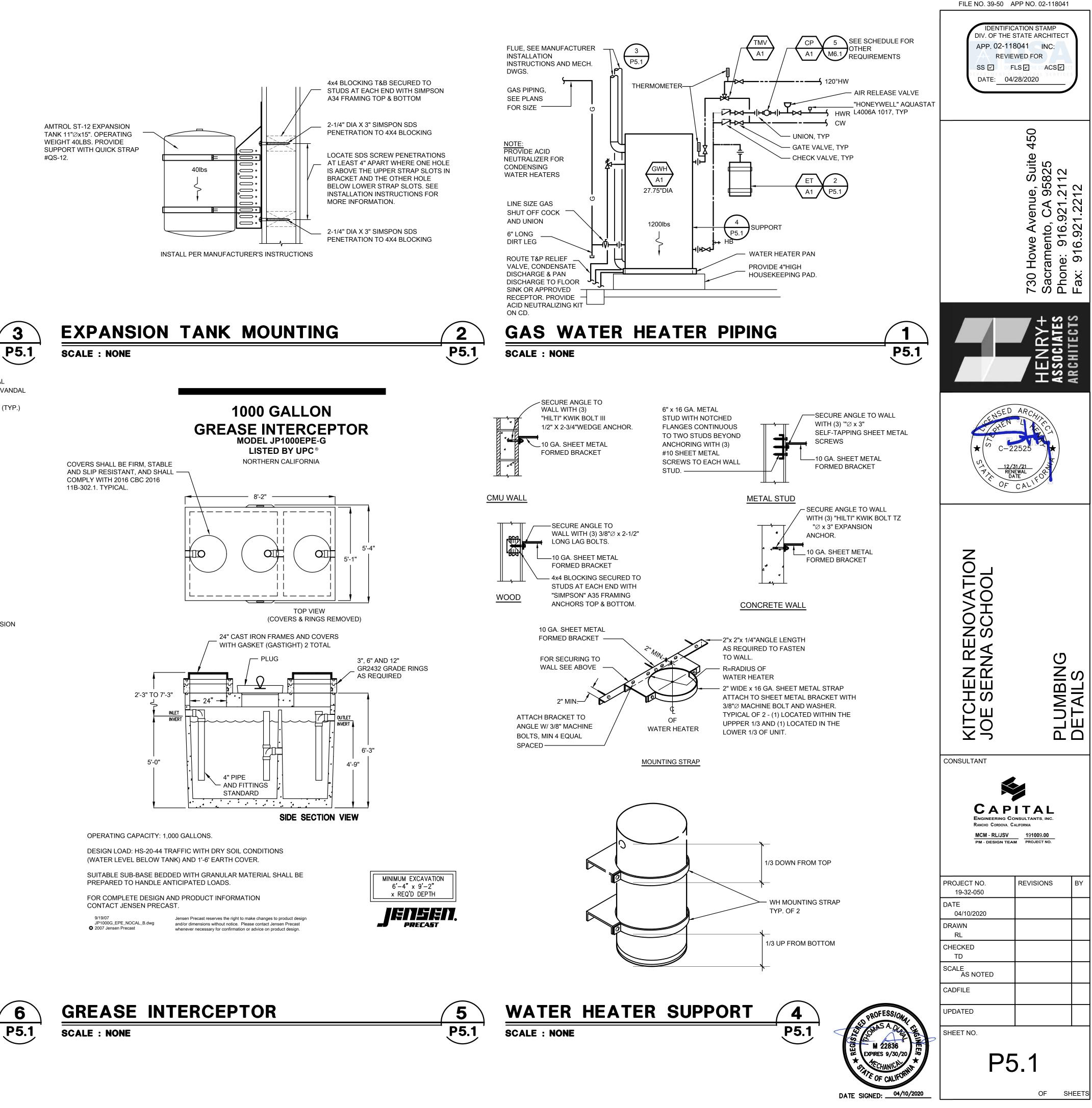
* PAVED AREAS: CHRISTY G8 TRAFFIC VALVE BOX

* LANDSCAPED AREAS: CHRISTY F8 CURB VALVE BOX WITH EXTENSION

NOTE: SINGLE/INDIVIDUAL CLEANOUTS SHALL BE PROVIDED (AND PLACED) IN STRICT COMPLIANCE WITH THE 2016 CPC - AT UPPER TERMINALS/END OF SEWER MAINS, ON BRANCH LINES IN EXCESS OF 5FT. AND AT 50 FT. INTERVALS (INTERIOR TO THE SPACE) PER DIVISION 22 SPECIFICATIONS. SINGLE CLEANOUT

CLEANOUT INSTALLATION

SCALE : NONE



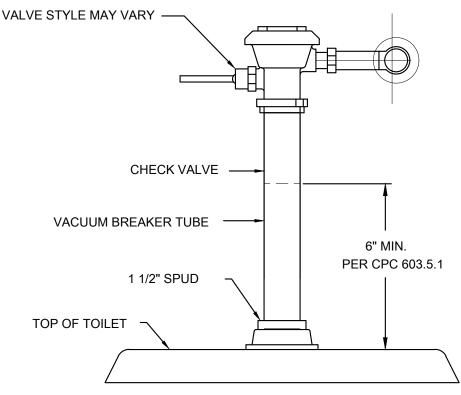


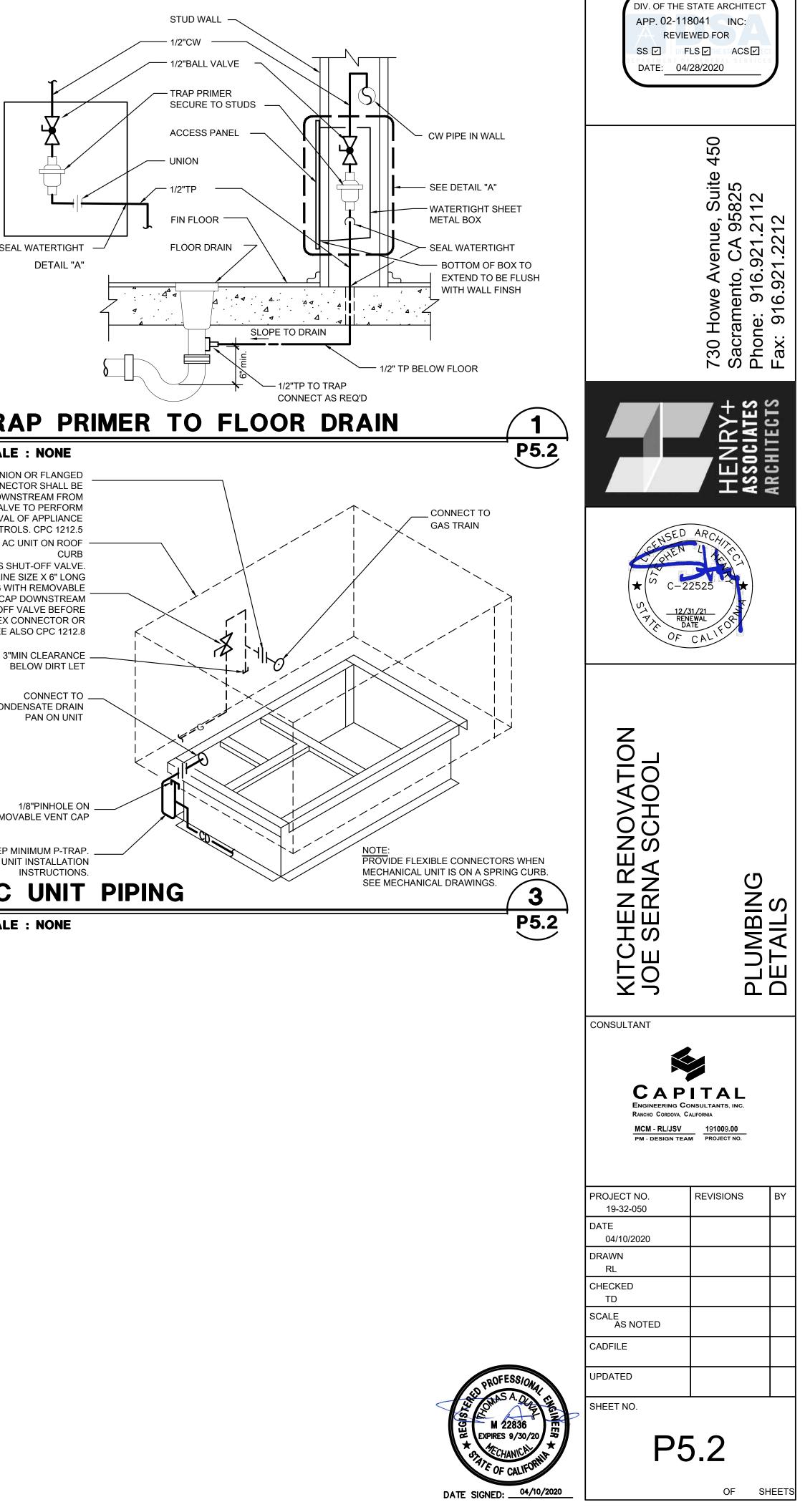






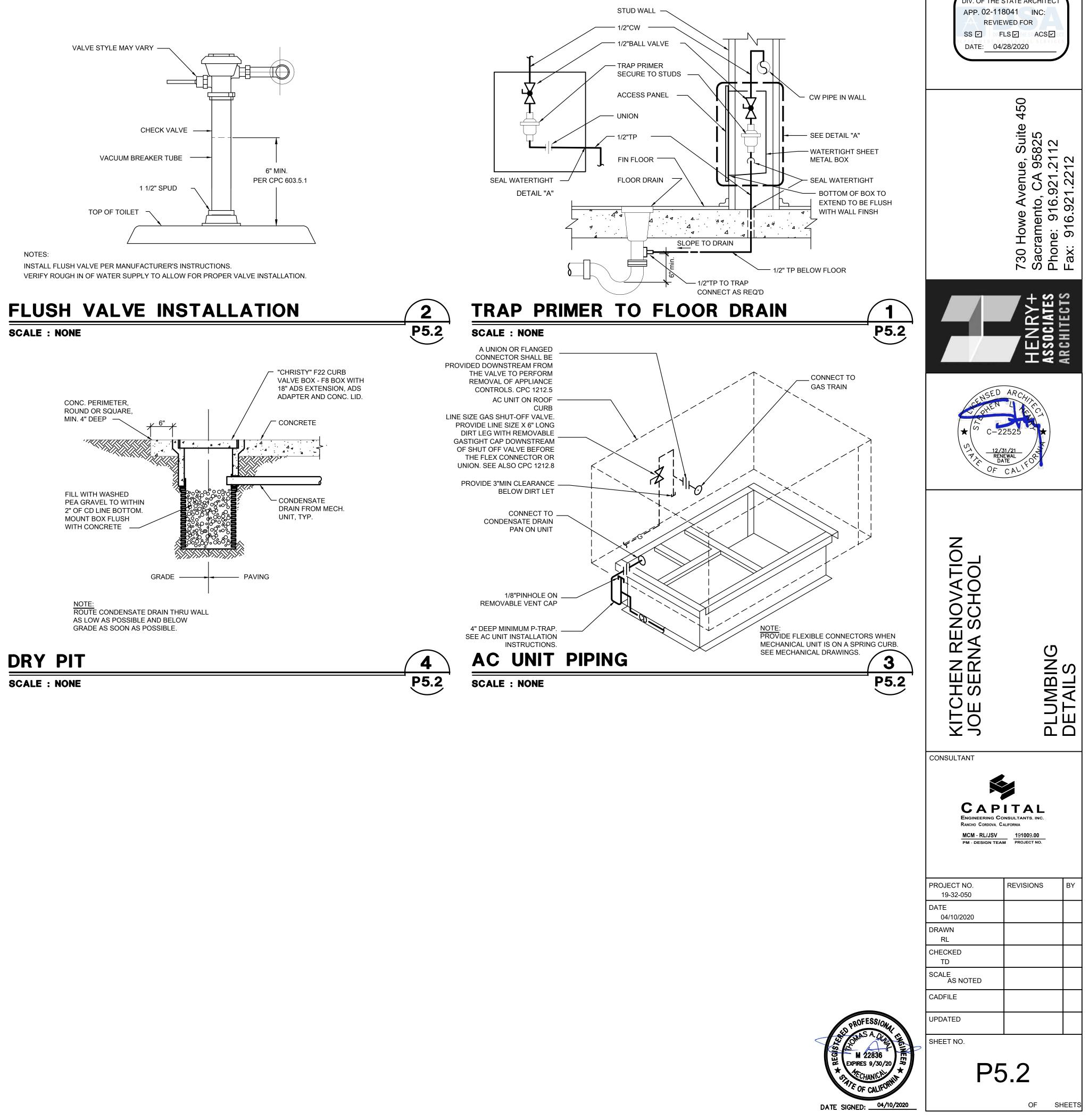
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FILE NO. 39-50 APP NO. 02-118041

IDENTIFICATION STAMP



ABBREVIATIONS

А	AMPERES	MAX.	MAXIMUM
AC	ALTERNATING CURRENT	MDF	MAIN DISTRIBUTION FRAME
A.F.F.	ABOVE FINISHED FLOOR	MIN.	MINIMUM
AWG	AMERICAN WIRE GAUGE	Ν	NEUTRAL
BKR	BREAKER	(N)	NEW
C.	CONDUIT	NEMA	NATIONAL ELECTRICAL
CKT.BRKR	. CIRCUIT BREAKER		MANUFACTURERS ASSOCIATION
CD	CANDELA	N.I.C.	NOT IN CONTRACT
СКТ	CIRCUIT	PFB	PROVISIONS FOR FUTURE CIRCUI BREAKER
C.O.	CONDUIT ONLY, WITH PULL WIRE	(R)	REMOVE
(E)	EXISTING	(RE)	RELOCATE EXISTING
EM	EMERGENCY	RCPT.	RECEPTACLE
(ER)	EXISTING RELOCATED	S.M.S	SHEET METAL SCREW
EMT	ELECTRICAL METALLIC CONDUIT	SWBD	SWITCHBOARD
(F)	FUTURE	SYS	SYSTEM
FACP	FIRE ALARM CONTROL PANEL	TYP.	TYPICAL
FAPS	FIRE ALARM POWER SUPPLY	UG	UNDERGROUND
GA.	GAUGE	UL	UNDERWRITERS LABORATORY
GND	GROUND	V	VOLT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMPERES
HP	HORSEPOWER	W	WATT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WP	WEATHER PROTECTED
LTG.	LIGHT	XFMR	TRANSFORMER

r				
	LUMINAIRE SCHEDULE			
	MANUFACTURER	VOLTAGE	LAMP	
TYPE	CATALOG NO.	DESCRIPTION	DESCRIPTION	
_	VISIONEERING-VISCOR	120 VOLT	LED, 52 WATTS,	
A	LRT-A-C29-2X4-LED-8-40K- 063L-P04-X5	TROFFER - KITCHEN	4000K, 80 CRI	
	CERTOLUX	120 VOLT	LED, 22 WATTS,	
В	VRSE-3556-24-LED-8- 40K-24L	SURFACE, VANDAL	4000K, 80 CRI	
LUMINAIRE SCHEDULE REMARK NOTES:				

(1) REFER TO PLANS FOR BATTERY OPERATED EMERGENCY DRIVER.

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DS/ approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

- 1. All permanent equipment and components.
- 2. Temporary or movable equipment that is permanently attached (e g hard wired) to the building services such as electricity, gas or water. 3. Movable equipment which is stationed in one place for more than 8 hours and 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 are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachr need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- 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.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.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 preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E): MP_MD_PP_ EX- Option 1: Detailed on the approved drawings with project specific notes and details.

ELECTRICAL SYMBOL LIST

JM	JIION FRAME			ENCLOSED LUMINAIRE - SURFACE MOUNTED (LETTER "a" DENOTES SWITCH FUNCTION, NUMBER "2" DENOTES CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES UNLESS NOTED	K	SE CC
AL				OTHERWISE).		SE
				ENCLOSED LUMINAIRE - CEILING LAY-IN	-	SE
	CTRICAL ERS ASSOCIATIO	ON		EMERGENCY ENCLOSED LUMINAIRE	///⊂	- CC QL
CONTF	ACT			EXISTING LUMINAIRE TO REMAIN		WI DE
SIONS F ER	OR FUTURE CIR	CUIT	\mathbf{X}	EXISTING LUMINAIRE TO BE REMOVED		CC
/E			A			> FLI CU
ATE EX	ISTING		2/32	LUMINAIRE DESIGNATION WITH LAMP QUANTITY AND WATTAGE. SEE LUMINAIRE SCHEDULE.		OT GR
TACLE			\$ ^a	SINGLE POLE TOGGLE SWITCH, +45" A.F.F "a" LETTER DENOTES SWITCH FUNCTION,		
METAL	SCREW		Þ	TYPICAL FOR ALL SWITCHES UNLESS NOTED OTHERWISE		- CC
HBOAR	C		\$ ₃	THREE-WAY TOGGLE SWITCH		– EX
M			\$	DIMMER SWITCH		
AL (GROUN	ID		\$	OCCUPANCY SENSOR SWITCH WITH MANUAL OVERRIDE - WALL MOUNTED AT +45" A.F.F. UNLESS NOTED OTHERWISE		OV
WRITEI	RS LABORATOR	Y	S	DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR - WALL MOUNTED AT +45" A.F.F. UNLESS NOTED OTHERWISE		PA PA
MPERE	s		S	OCCUPANCY AREA SENSOR SWITCH		EX
				LIGHTING ROOM CONTROLLER - MOUNTED IN ACCESSIBLE CEILING AREA, UNLESS NOTED OTHERWISE		EX
	DTECTED			JUNCTION BOX - SIZE AS REQUIRED BY CODE		TE
FORME	R					SV
				DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER).	4	EQ MA
			Ь	QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R	40	EQ
			Ю	SPECIAL RECEPTACLE AS SHOWN ON PLANS	EQ	ME
	MOUNTING	REMARK		DATA OUTLET - FLUSH IN WALL +18" A.F.F. NUMBER IN PARENTHESIS INDICATES NUMBER OF DATA JACKS.		DR SH
TION		NOTE No.	\square_{x}	FIRE ALARM HEAT DETECTOR - CEILING MOUNTED. "AC" INDICATE THAT DETECTOR IS		
īS,	T-BAR	1	₩ _X	MOUNTED IN ACCESSIBLE ABOVE CEILING / ATTIC SPACE. "194°" INDICATE HIGH TEMPERATURE HEAT DETECTOR.	E-1	DR "E-
īS,	SURFACE		0	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED. THE DEFAULT TYPE IS		
				PHOTOELECTRIC	SYMBOL	LIST
				FIRE ALARM AUDIBLE DEVICE, +90" A.F.F. UNLESS OTHERWISE NOTED. DEFAULT DEVICE IS A SPEAKER.	1. EXISTI	NG FI
			YY		LIGHTI	_Y AN
				FIRE ALARM AUDIO / VISUAL DEVICE, +80" A.F.F. DEFAULT AUDIO DEVICE IS A SPEAKER. "YY" INDICATES STROBE CANDELA RATING.	2. ELECT	
			Щ Щ Щ	VISUAL FIRE ALARM DEVICE +80" A.F.F WALL MOUNTED (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE), "YY" = CANDELA RATING	SHALL	BE SI HER S
			MM	FIRE ALARM MONITOR MODULE	3. VERIF DEDIC	ATED
			EOL-~	END OF LINE RESISTOR	THE PA	
	September 1	3, 2016	FACP	MASTER FIRE ALARM CONTROL PANEL		
	he details on the shall be anchore		FAPS	REMOTE FIRE ALARM POWER SUPPLY		
	ctions 1616A.1.18		ANN	FIRE ALARM REMOTE ANNUNCIATOR PANEL - FLUSH MOUNTED		
g hard v	vired) to the build	ling utility		SPEAKER - WALL MOUNTED, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.		
djacent	and heavier than floor or roof level attachments.		<u>Ф</u>	CLOCK OUTLET - WALL MOUNTED REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.		
	ucture, but the att	achment				

SHOULD ANY CONDITIONS DEVELOP, NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH ALL REQUIRED CODES, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY, THE AGENCY BEFORE PROCEEDING WITH THE WORK.

ECURITY SYSTEM KEYPAD AND OUTLET BOX +45" A.F.F. UNLESS NOTED. PROVIDE 3/4" ONDUIT STUB. SEE NOTE 4.

ECURITY SYSTEM DOOR OR WINDOW CONTACT. PROVIDE 1/2" CONDUIT STUB.

ONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES UANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND /IRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS ENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL ONDUITS.

EXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. JRVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS HER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.

ONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET

XISTING CONDUIT AND WIRING

XISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH WNER.

ANELBOARD - SURFACE MOUNTED

ANELBOARD - FLUSH MOUNTED

XISTING PANELBOARD - SURFACE MOUNTED

XISTING PANELBOARD - FLUSH MOUNTED

ERMINAL CABINET

WITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER

QUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE TO ATCH EQUIPMENT NAMEPLATE

QUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE

ECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS

RAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME IEET

RAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, E-1" DENOTES SHEET NUMBER

NOTES:

LECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT ND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO S IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.

L OUTLET BOXES MOUNTED ON OPPOSITE SIDES OF FIRE-RATED WALLS OR PARTITIONS EPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES PER CBC 2016, SHOWN ON THE PLANS OR NOT.

SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE) PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN MPEDE THE DEDICATED PANELBOARD AREAS.

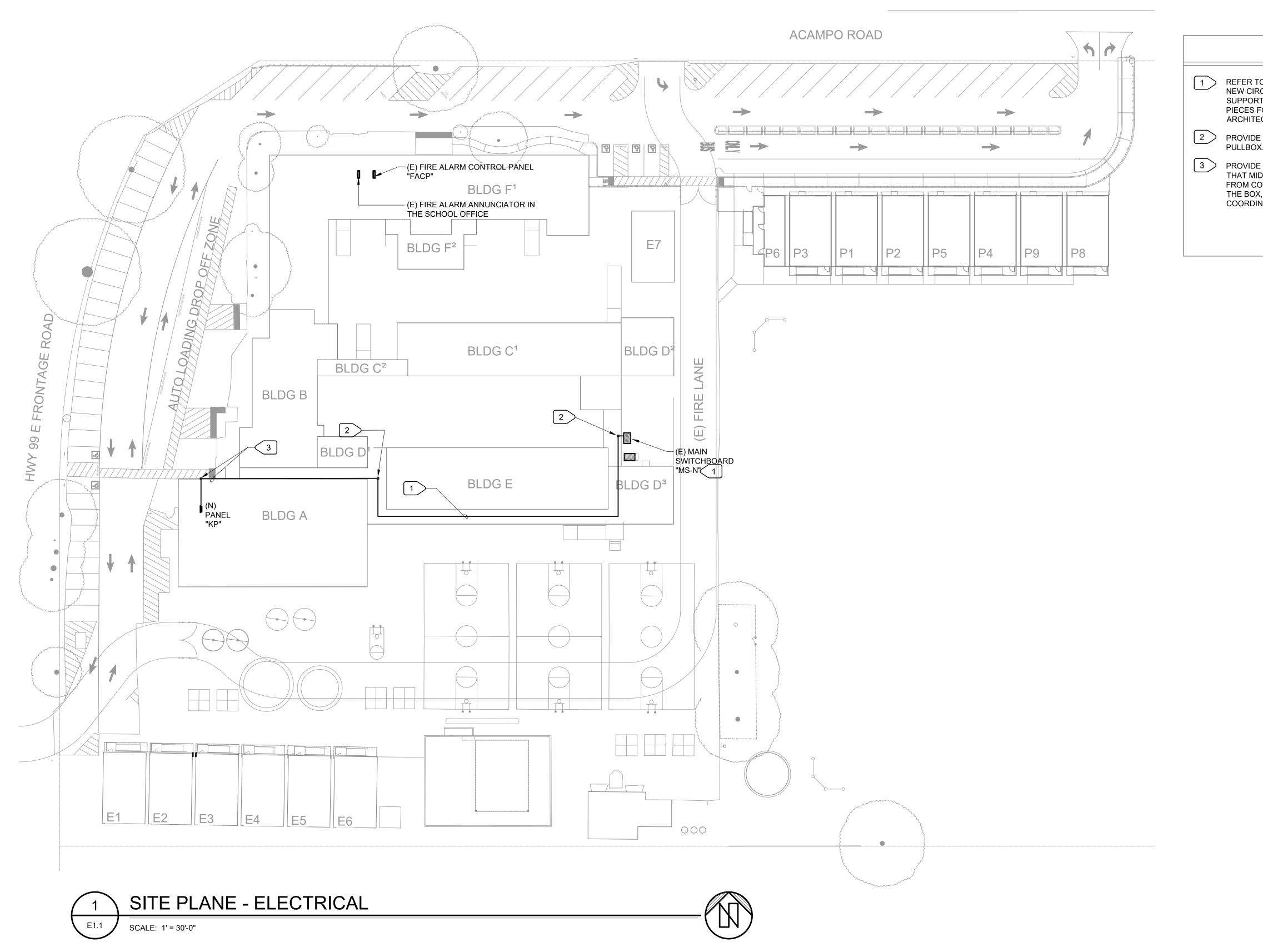
PROJECT DESCRIPTION

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE POWER FOR NEW KITCHEN EQUIPMENT, NEW HVAC EQUIPMENT, NEW LIGHTING, IN RENEWED KITCHEN. EXISTING FIRE ALARM, DATA, INTRUSION AND VOICE SYSTEMS WILL BE REVISED AND ADJUSTED TO CONFIRM TO RENEWED KITCHEN.

	M .
\sqrt{N}	ENGIN
VV	Electrical E
	100 Howe / Sacramente www.mneils Tel: (916) 9

NEILS NEERING, INC. Engineers Lighting Designers e Ave., Suite 235N nto, CA 95825-8217 lsengineering.com 923-4400 Fax: (916) 923-4410 PROJECT #: 19276.21

	.PP NO. 02-118041
DIV. OF THE S APP. 02-118 REVIEW SS I FI	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS 28/2020
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ C-22	ARCAHARCAHARCAHARCAHARCAHARCAHARCAHARCA
KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	SYMBOLS, NOTES, ABBREVIATIONS, SCHEDULES
CONSULTANT PROFES SSE U. SSE U. SSE U. No. EZ Exp. 03- STATE OF C 04/09/	RICAL FORMA
PROJECT NO. 19-32-050 DATE 04/10/2020 DRAWN SLH CHECKED SLH	REVISIONS BY
SCALE CADFILE UPDATED SHEET NO.	
E0	.1

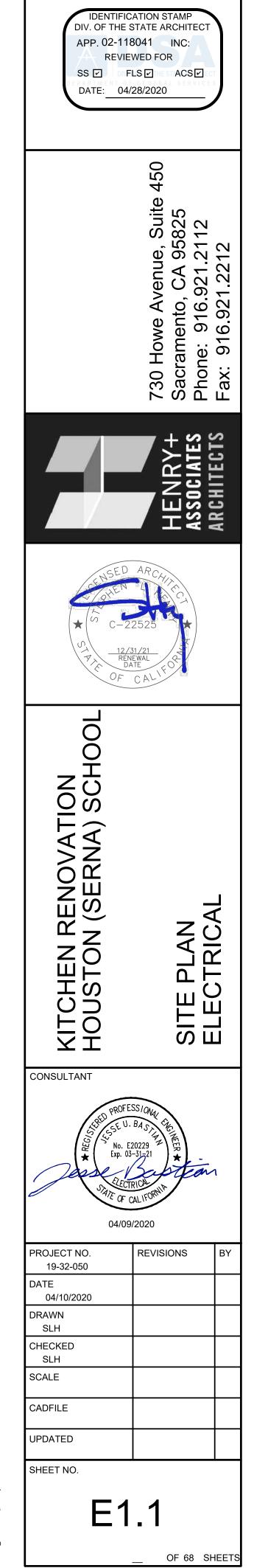


NUMBERED NOTES:

REFER TO ONE LINE DIAGRAM - POWER 1/E3.0 FOR CONDUIT AND CONDUCTOR SIZES, AND NEW CIRCUIT BREAKER. RUN CONDUITS ON ROOF / EXTERIOR WALLS. PROVIDE CONDUIT SUPPORT PER 1/E5.0. INSTALL BREAKER IN (E) SPACE. PROVIDE ALL HARDWARE AND TRIM PIECES FOR COMPLETE INSTALLATION. COORDINATE EXACT CONDUIT ROUTE WITH ARCHITECT BEFORE ROUGH IN.

PROVIDE NEMA 4X ENCLOSURE WITH SCREW COVER 18"x18"x6". ENCLOSURE TO BE USED AS PULLBOX. MOUNT ENCLOSURE ON ROOF PER 1/E5.0.

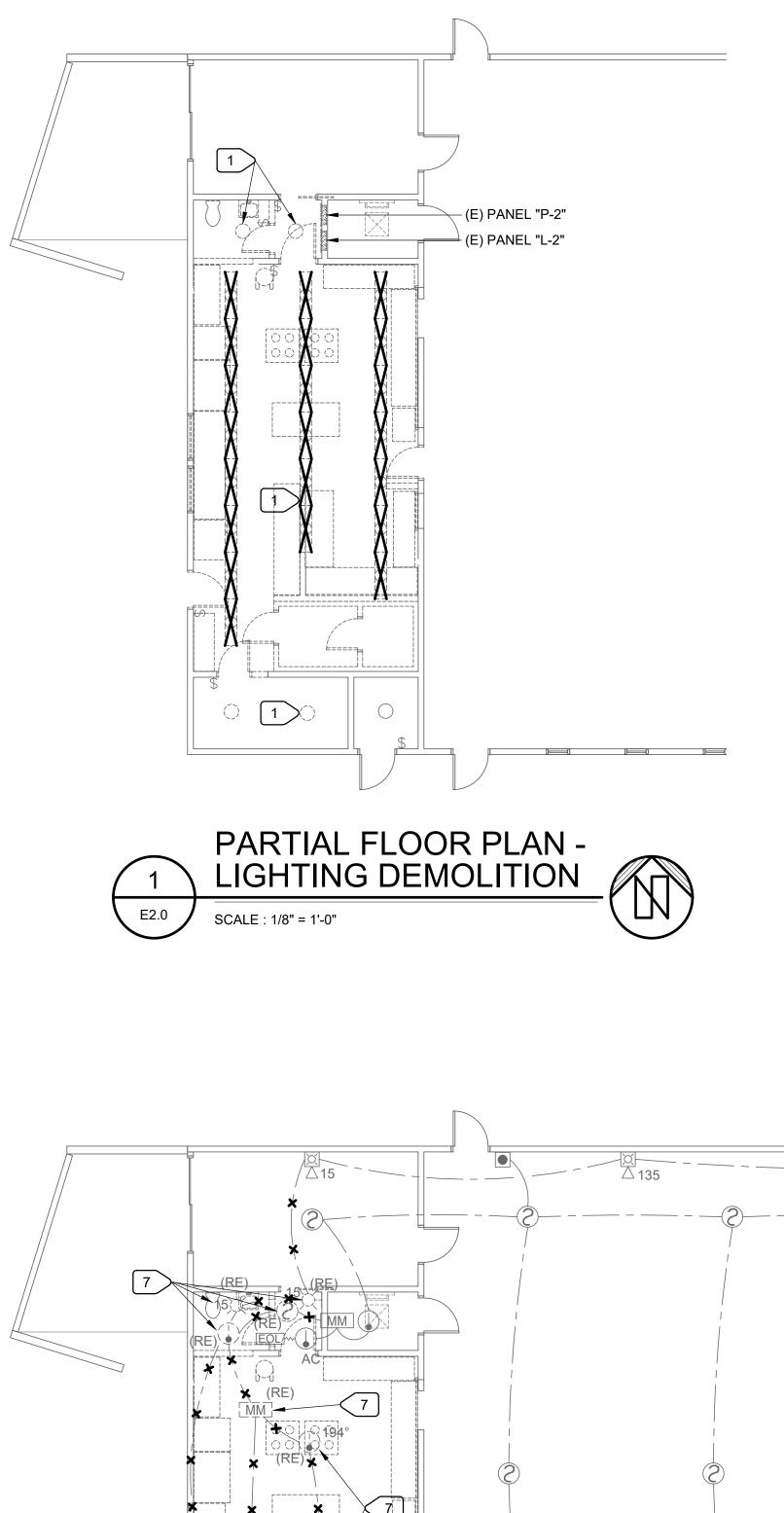
PROVIDE NEMA 3R ENCLOSURE 18"x18"x6" WITH SCREW COVER. MOUNT ON WALL SUCH THAT MIDDLE OF BOX IS LEVELED WITH TOP OF COVERED WALKWAY. CONTINUE CONDUIT FROM COVERED WALKWAY STRAIGHT TO NEW BOX. CONTINUE CONDUIT FROM BACK OF THE BOX, THROUGH WALL IN ATTIC SPACE ABOVE TEACHER LOUNGE TO (N) PANEL "KP". COORDINATE EXACT ROUTE BEFORE ROUGH IN.

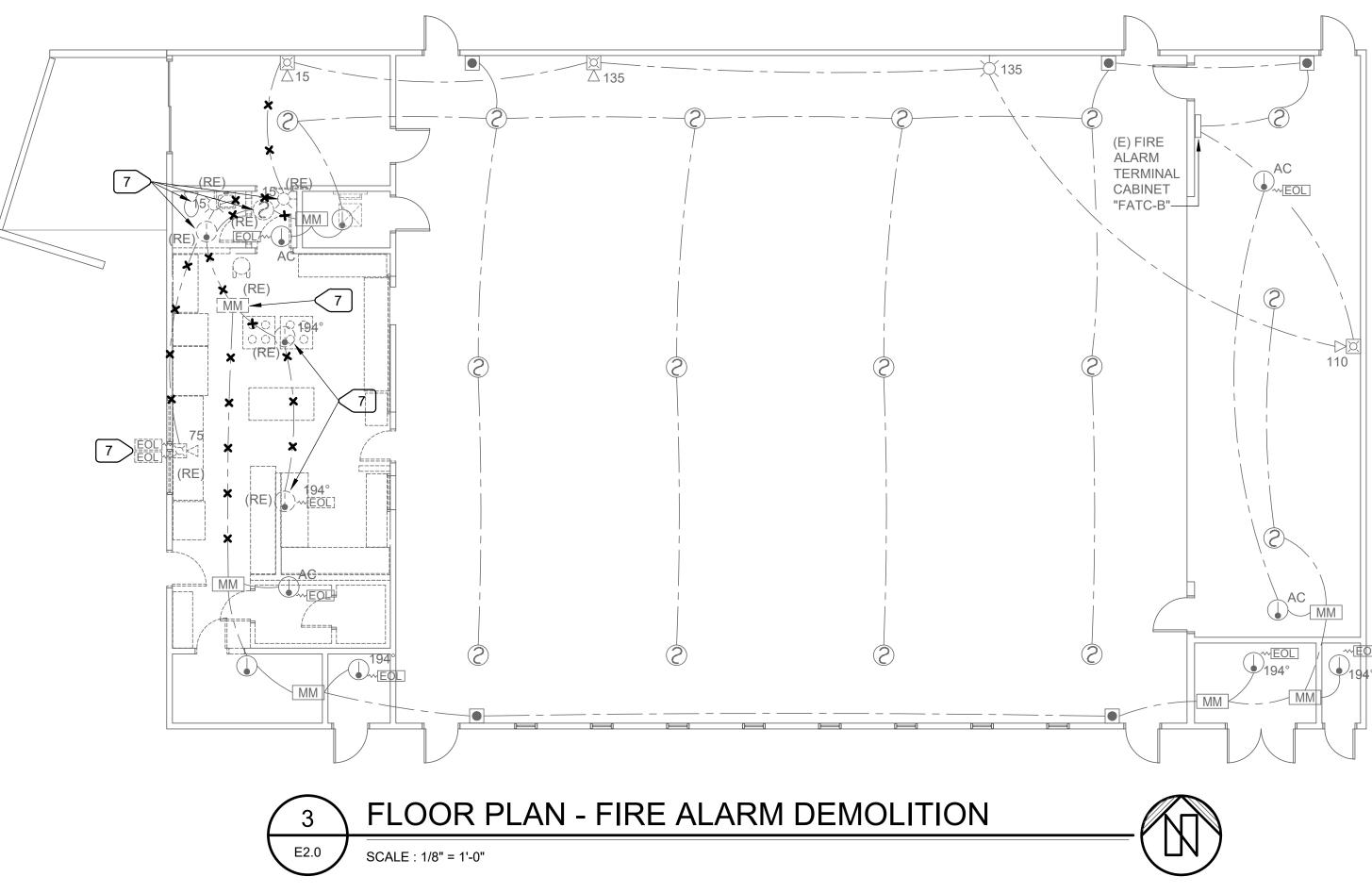


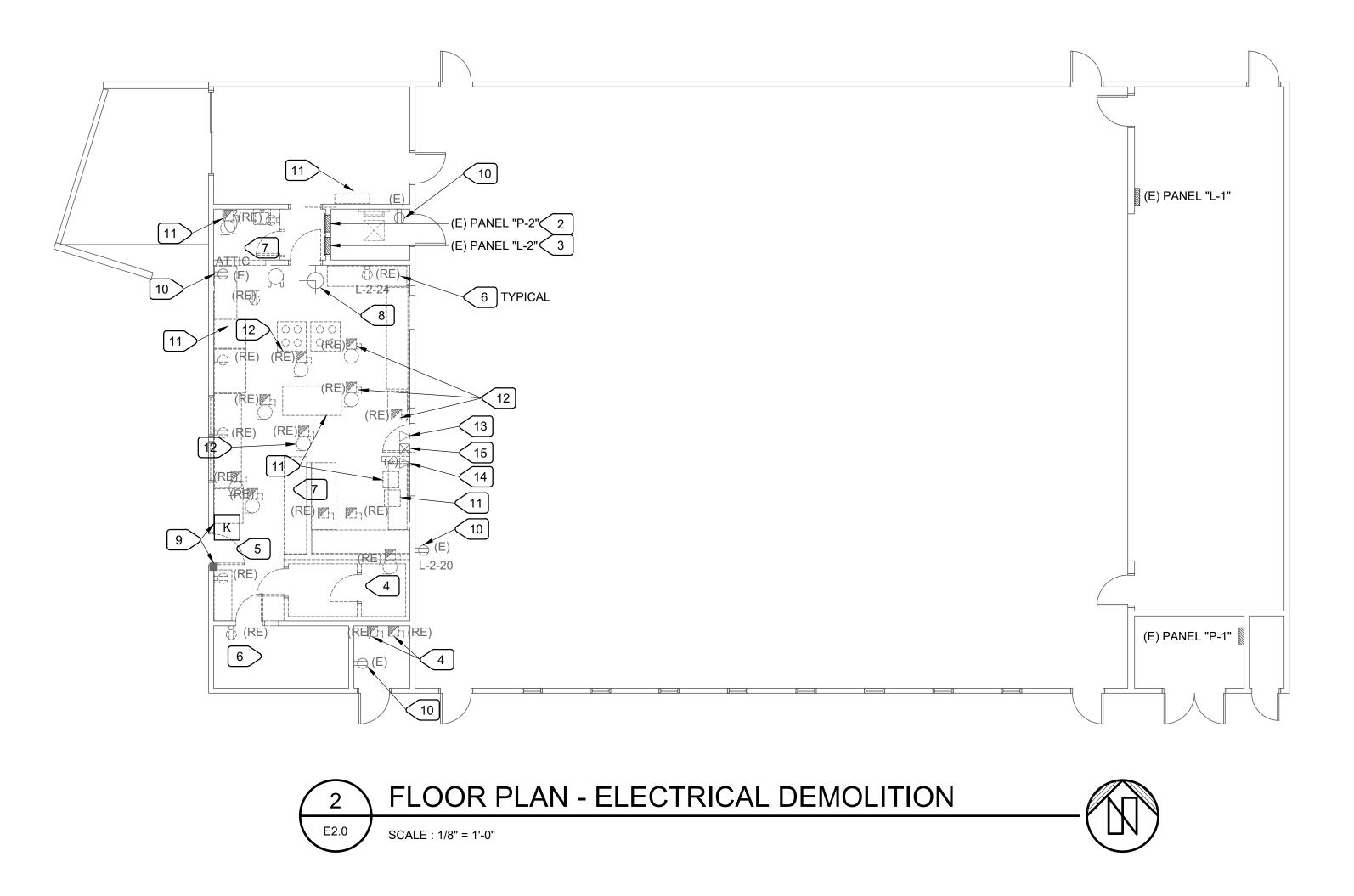
FILE NO. 39-50 APP NO. 02-118041

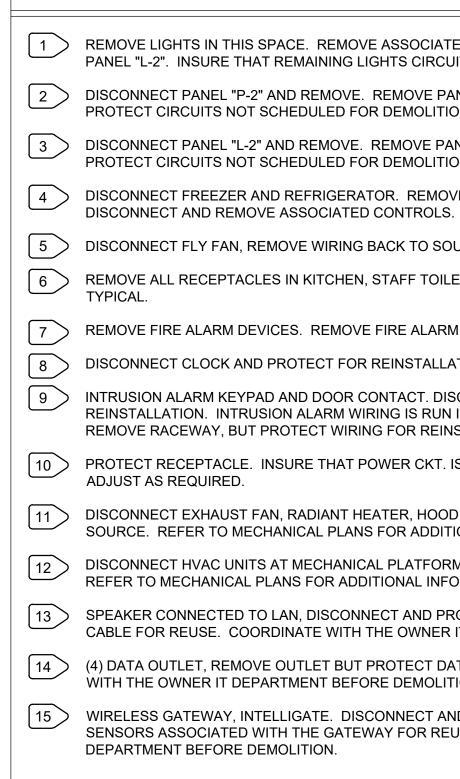


ENGINEERING, INC. Electrical Engineers | Lighting Designers 100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19276.21









NUMBERED NOTES:

1 REMOVE LIGHTS IN THIS SPACE. REMOVE ASSOCIATED SWITCHES. REMOVE WIRING BACK TO PANEL "L-2". INSURE THAT REMAINING LIGHTS CIRCUIT CONTINUITY.

2 DISCONNECT PANEL "P-2" AND REMOVE. REMOVE PANEL FEEDER BACK TO PANEL "P-1". PROTECT CIRCUITS NOT SCHEDULED FOR DEMOLITION, FOR RECONNECTION TO (N) PANEL. 3 DISCONNECT PANEL "L-2" AND REMOVE. REMOVE PANEL FEEDER BACK TO PANEL "L-1".

PROTECT CIRCUITS NOT SCHEDULED FOR DEMOLITION, FOR RECONNECTION TO (N) PANEL. 4 DISCONNECT FREEZER AND REFRIGERATOR. REMOVE WIRING BACK TO SOURCE.

5 DISCONNECT FLY FAN, REMOVE WIRING BACK TO SOURCE.

6 REMOVE ALL RECEPTACLES IN KITCHEN, STAFF TOILET, RESTROOM AND FOOD LOCKER, TYPICAL.

7 REMOVE FIRE ALARM DEVICES. REMOVE FIRE ALARM WIRING BACK TO REMAINING DEVICE.

8 DISCONNECT CLOCK AND PROTECT FOR REINSTALLATION. PROTECT CLOCK WIRING.

9 INTRUSION ALARM KEYPAD AND DOOR CONTACT. DISCONNECT AND PROTECT FOR REINSTALLATION. INTRUSION ALARM WIRING IS RUN IN SURFACE MOUNTED RACEWAY. REMOVE RACEWAY, BUT PROTECT WIRING FOR REINSTALLATION.

10 PROTECT RECEPTACLE. INSURE THAT POWER CKT. IS RECONNECTED TO (N) PANEL "KP1".

DISCONNECT EXHAUST FAN, RADIANT HEATER, HOOD, AND REMOVE WIRING BACK TO SOURCE. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE.

DISCONNECT HVAC UNITS AT MECHANICAL PLATFORM. REMOVE WIRING BACK TO SOURCE. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE.

13 SPEAKER CONNECTED TO LAN, DISCONNECT AND PROTECT FOR REUSE. PROTECT DATA CABLE FOR REUSE. COORDINATE WITH THE OWNER IT DEPARTMENT BEFORE DEMOLITION.

(4) DATA OUTLET, REMOVE OUTLET BUT PROTECT DATA CABLES FOR REUSE. COORDINATE WITH THE OWNER IT DEPARTMENT BEFORE DEMOLITION.

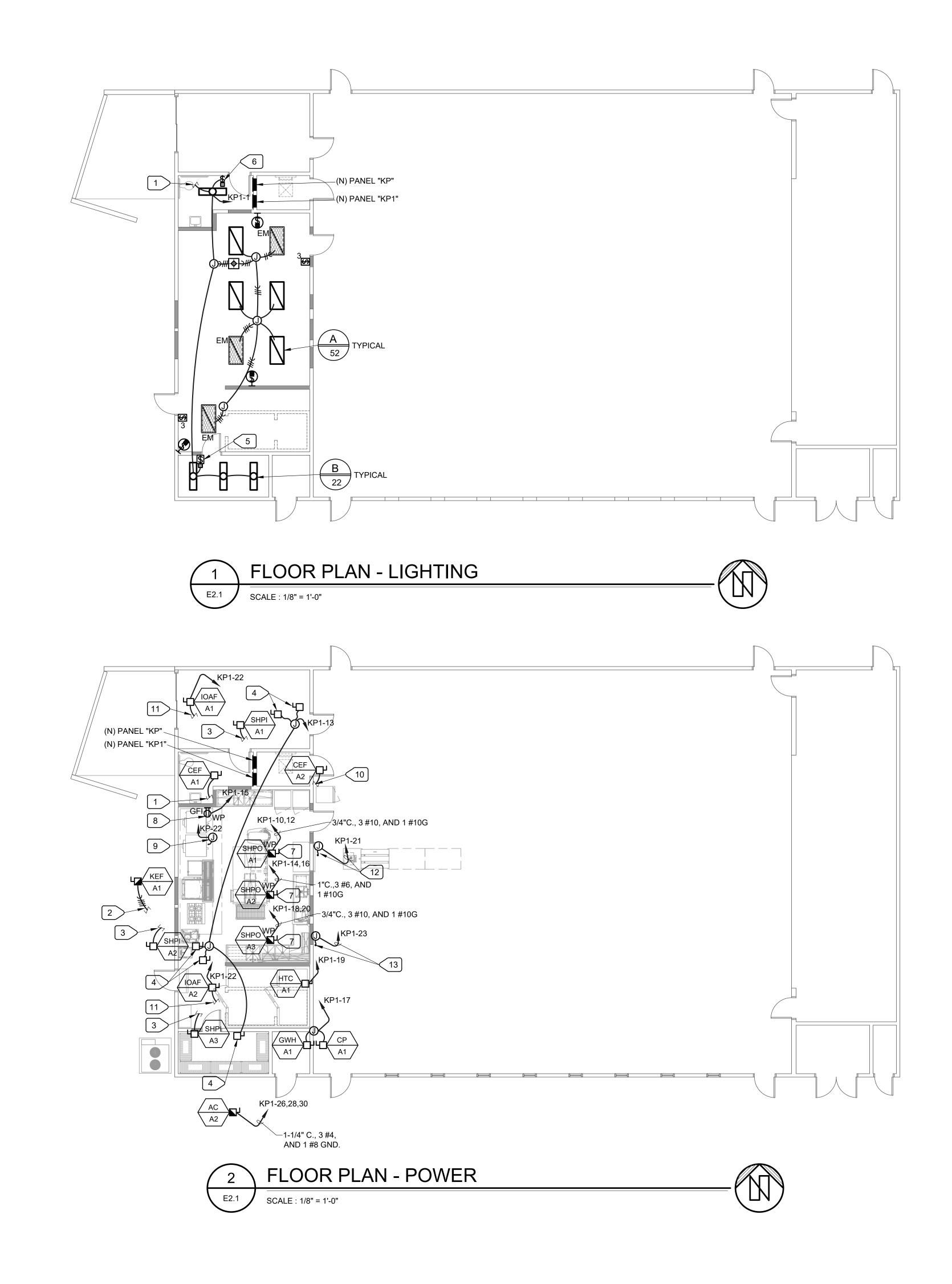
15 WIRELESS GATEWAY, INTELLIGATE. DISCONNECT AND PROTECT FOR REUSE. PROTECT SENSORS ASSOCIATED WITH THE GATEWAY FOR REUSE. COORDINATE WITH THE OWNER IT DEPARTMENT BEFORE DEMOLITION.

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NEILS ERING, INC. ngineers Lighting Designers Ave., Suite 235N o, CA 95825-8217 sengineering.com 23-4400 Fax: (916) 923-4410 PROJECT #: 19276.21

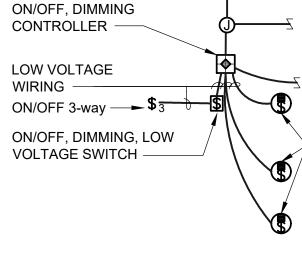
DIV. OF THE S APP. 02-118 REVIE SS 🖸 F	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS 28/2020
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
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KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	ELECTRICAL DEMOLITION
CONSULTANT PROFE STATE OF C 04/09	RICAL FORMA
PROJECT NO. 19-32-050	REVISIONS BY
DATE 04/10/2020 DRAWN	
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E2	.0

OF 68 SHEETS



Apr 09, 2020 -

	NU
1	CONNECT EXHAUST FAN INTO L
2	CONNECT VIA EXHAUST HOOD FOOD SERVICE PLANS.
3	INDOOR SPLIT SYSTEM UNIT PO PROVIDE CONDUIT, CONDUCTO
4	PROVIDE FOR AND CONNECT CO COORDINATE WITH MECHANICA
5	PROVIDE LINE VOLTAGE DIMME
6	PROVIDE LINE VOLTAGE ON-OF
7	MOUNTED ON ROOF. REFER TO
8	ROOF MOUNTED FOR MAINTENA COVER.
9	PROVIDE FOR AND CONNECT AI RELAY MODULE, REFER TO 2/E3 ROUGH IN.
10	CONNECT FAN INTO (E) LIGHTIN
11	PROVIDE CONDUIT/CONDUCTOR WITH MECHANICAL BEFORE RO
12	PROVIDE FOR AND CONNECT O PROVIDED WITH THE DOOR, CO ROUGH IN. DOOR SHALL BE CO ALARM. REFER TO MANUFACTU REQUIREMENTS.
13	PROVIDE FOR AND CONNECT FI CONNECTION.





UMBERED NOTES:

LIGHTING CKT. SUCH THAT FAN SWITCHES WITH LIGHT IN R.R.) (FANS CONTROLLER SUPPLY) EH3; REFER TO 1/E2.3 AND

POWERED FROM ASSOCIATED OUTDOOR SPLIT SYSTEM UNIT. FORS, AND CONNECT PER MANUFACTURER REQUIREMENTS. CONDENSATE PUMP AND CENTRIFUGAL DUCT FAN. CAL BEFORE ROUGH IN.

IER / ON-OFF SWITCH WITH OCCUPANCY SENSOR.

OFF SWITCH WITH OCCUPANCY SENSOR.

TO MECHANICAL PLANS.

NANCE. PROVIDE IN WP ENCLOSURE WITH WHILE-IN-USE

AUTOMATIC GAS SHUTDOWN. RUN THROUGH FIRE ALARM E3.0. COORDINATE WITH PLUMBING CONTRACTOR BEFORE

ING CKT. SUCH THAT FAN SWITCHES WITH LIGHT.

ORS FROM FAN TO ASSOCIATED SPLIT SYSTEM. COORDINATE OUGH IN.

OVERHEAD MOTORIZED ROLL UP DOOR. INSTALL SWITCH OORDINATE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ONNECTED SUCH THAT IT ROLLS DOWN IN CASE OF FIRE TURER INSTRUCTIONS AND FIRE ALARM PLAN FOR ADDITIONAL

IRE/SMOKE DAMPER. REFER TO 3/E4.0 DIAGRAM FOR

UNSWITCHED POWER TO OTHER LIGHT FIXTURES

UNSWITCHED POWER FROM PANEL KP1, CKT. #1

OCCUPANCY SENSOR, SYMBOL REPRESENT SPACE TO BE CONTROLLED, NOT EXACT LOCATION AND NUMBER OF THE SENSORS. CONTRACTOR SHALL SUBMIT FLOOR PLAN WITH EXACT LOCATIONS AND QUANTITIES FOR APPROVAL.

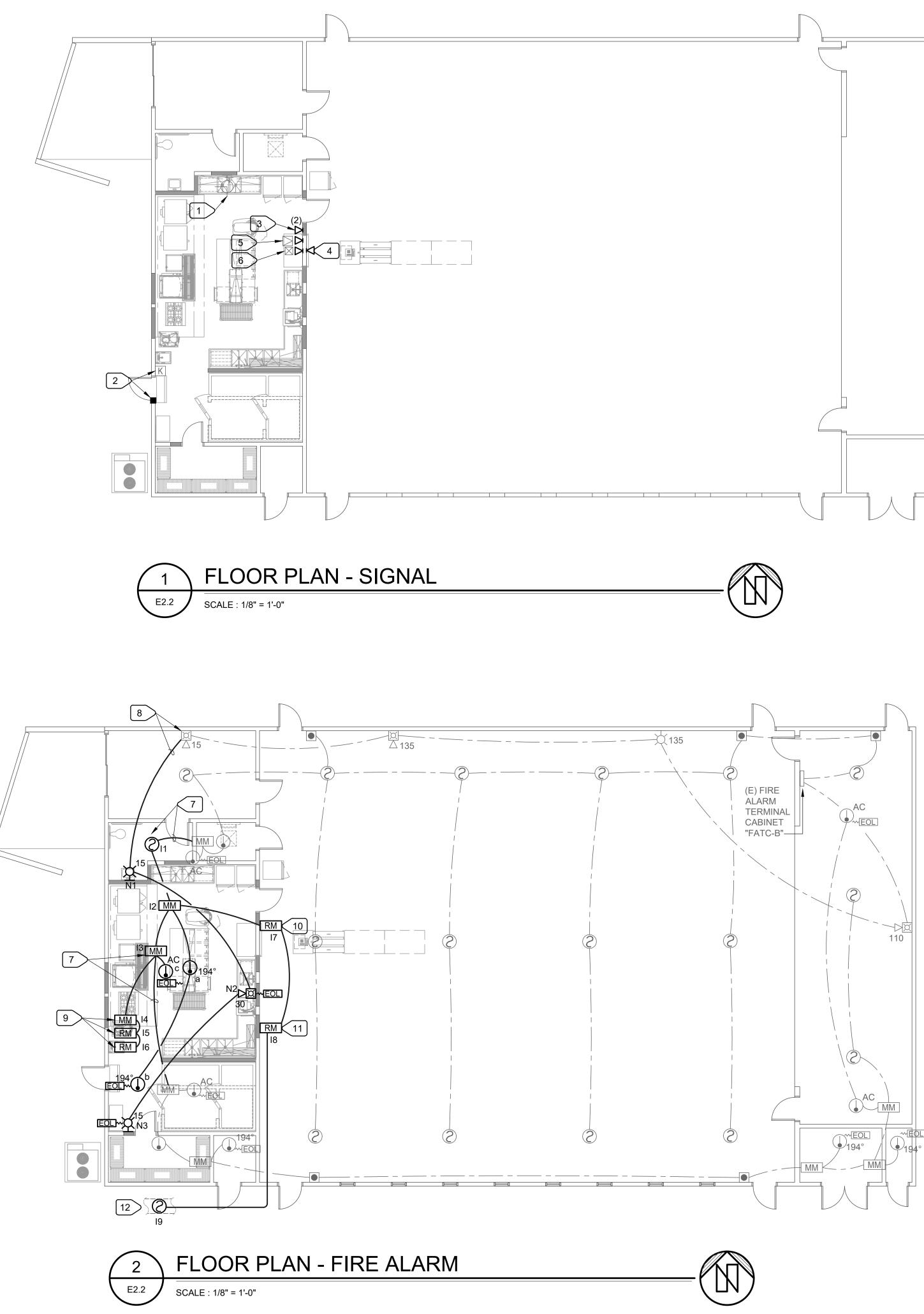
PROVIDE UNSWITCHED "HOT" TO "EM" FIXTURES

LIGHTING SWITCHING DIAGRAMS

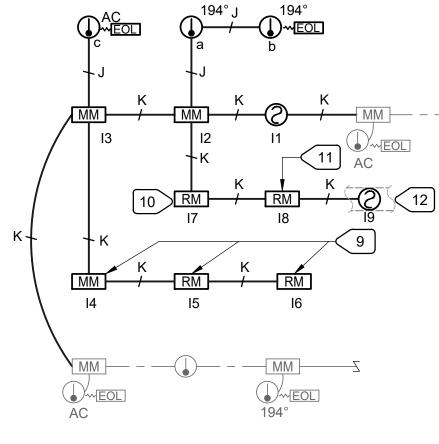


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DIV. OF THE S APP. 02-118 REVIEW SS 🗹 F	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS 28/2020	
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212	
	HENRY+ Associates Architects	
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KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	FLOOR PLANS - LIGHTING AND POWER	
CONSULTANT PROFESS/ONA SSE U. BASSA No. E20229 Exp. 03-31-21 ATE OF CALLFORMIN 04/09/2020		
PROJECT NO. 19-32-050	REVISIONS BY	
DATE 04/10/2020 DRAWN		
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CADFILE		
UPDATED SHEET NO.		
E2	.1	



	NUMBERED NO
1	REINSTALL (E) SALVAGED CLOCK. REUSE (E) CLOCK C CLOCK SUCH THAT IT IS VISIBLE FROM ENTIRE KITCHE
2	REINSTALL (E) INTRUSION ALARM KEY PAD. PROVIDE CONTACTS (CONTACTS TO MATCH EXISTING ON SITE) CONNECT INTO (E) INTRUSION ALARM CIRCUIT IN THE POINT WHERE THEY ENTER KITCHEN, PROVIDE 3/4" CO THROUGH (N) CONDUITS.
3	PROVIDE DATA/VOICE OUTLET WITH (1) DATA JACK AN PANDUIT CJ6X88TG, BEIGE FOR DATA AND BLUE FOR DEPARTMENT LABELING SCHEME. REUSE (E) SALVAG JACKS. PULL (E) CABLES BACK TO POINT WHERE THE CONDUIT, AND PULL IN (E) CABLES THROUGH (N) CON
4	PROVIDE DATA OUTLET WITH (1) DATA JACK. JACK SH COLOR. COORDINATE WITH OWNER'S IT DEPARTMENT SALVAGED DATA CABLES TO CONNECT (N) JACK. PULL THEY ENTER KITCHEN, PROVIDE 3/4" CONDUIT, AND PU CONDUITS. MOUNT OUTLET AT 18"A.F.F.
5	PROVIDE DATA OUTLET WITH (1) DATA JACK FOR SALV PANDUIT CJ6X88TG, GREEN COLOR. COORDINATE WIT SCHEME. REUSE (E) SALVAGED DATA CABLES TO COM TO POINT WHERE THEY ENTER KITCHEN, PROVIDE 3/4 THROUGH (N) CONDUITS. MOUNT OUTLET AND SPEAK
6	PROVIDE DATA OUTLET WITH (1) DATA JACK FOR SALV SHALL BE PANDUIT CJ6X88TG, WHITE COLOR. COORD LABELING SCHEME. REUSE (E) SALVAGED DATA CABL CABLES BACK TO POINT WHERE THEY ENTER KITCHER (E) CABLES THROUGH (N) CONDUITS. MOUNT OUTLET
7	CONNECT (N) DEVICES INTO (E) INITIATION CKT.; REFE
8	CONNECT (N) DEVICES INTO (E) NOTIFICATION CKT.; R
9	PROVIDE FOR HOOD FIRE SUPPRESSION SYSTEM (MO AND GAS SHUTDOWN); REFER TO DIAGRAM 2/E3.0.
10	PROVIDE SET OF CONTACTS FOR CLOSING OVERHEAD FIRE ALARM CONDITION AT THE FIRE ALARM SYSTEM.
11	FOR FIRE/SMOKE DAMPER, REFER TO 3/E4.0.
12	PROVIDE FOR (N) AC UNIT. PROVIDE TEST SWITCH AN COORDINATE WITH MECHANICAL BEFORE ROUGH IN.



$$\begin{array}{c} 15 \\ \hline 1$$

- NOTE: 1. REMOVED IS ONE SPEAKER 2. ADDED IS ONE SPEAKER OF SAME WATTAGE AS REMOVED SPEAKER
 - REMOVED ARE (2) 15cd STROBES AND (1) 75cd STROBE. - 3. 4. ADDED ARE (2) 15cd STROBES AND (1) 30cd STROBE.

 - VOLTAGE DROP.



FIRE ALARM CABLE SCHEDULE

J	NON-ADDRESABLE INITIATION	2#14 THWN
к	DATA	2 CONDUCTORS, 18AWG, - WEST PENN D980
U	NOTIFICATION - VISUAL (STROBE)	2#12 THWN
V	NOTIFICATION - AUDIBLE (SPEAKER)	1 PAIR, 12AWG, SHIELDED, WEST PENN 60994B

NOTES:
OCK CABLE. ADJUST AS REQUIRED. LOCATE
DVIDE (N) INTRUSION ALARM DOOR SITE). REUSE (E) SALVAGED CABLES TO N THE BUILDING. PULL (E) CABLES BACK TO 3/4" CONDUIT, AND PULL IN (E) CABLES
CK AND (1) VOICE JACK. JACKS SHALL BE FOR VOICE. COORDINATE WITH OWNER'S IT ALVAGED DATA CABLES TO CONNECT (N) E THEY ENTER KITCHEN, PROVIDE 3/4") CONDUITS. MOUNT OUTLET AT 48"A.F.F.
CK SHALL BE PANDUIT CJ6X88TG, BEIGE TMENT LABELING SCHEME. REUSE (E) & PULL (E) CABLES BACK TO POINT WHERE AND PULL IN (E) CABLES THROUGH (N)
R SALVAGED SPEAKER. JACK SHALL BE TE WITH OWNER'S IT DEPARTMENT LABELING O CONNECT (N) JACK. PULL (E) CABLES BACK DE 3/4" CONDUIT, AND PULL IN (E) CABLES SPEAKER AT 84"A.F.F.
R SALVAGED WIRELESS GATEWAY. JACK OORDINATE WITH OWNER'S IT DEPARTMENT CABLES TO CONNECT (N) JACK. PULL (E) TCHEN, PROVIDE 3/4" CONDUIT, AND PULL IN UTLET AND GATEWAY AT 84"A.F.F.
REFER TO DEMOLITION PLAN.
KT.; REFER TO DEMOLITION PLAN.
M (MONITORING, MECHANICAL CONTROLS, 3.0.
RHEAD MOTORIZED ROLL UP DOOR UPON STEM.

CH AND INSTALL AS INSTRUCTED IN FIELD.

5. LOAD ON (E) VISUAL NOTIFICATION CIRCUIT IS LESSER, AND ON AUDIO NOTIFICATION CIRCUIT IS NOT CHANGED; THEREFORE (E) BATTERIES ARE ADEQUATE FOR REQUIRED POWER BACKUP. 6. NOTIFICATION CIRCUITS REMOVED WIRING IS EQUAL TO ADDED WIRING; THEREFORE NO CHANGES IN





CONSULTANT

04/09/2020 PROJECT NO. REVISIONS 19-32-050 DATE 04/10/2020 DRAWN SLH CHECKED SLH SCALE CADFILE UPDATED SHEET NO. E2.2

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OF 68 SHEETS

FILE NO. 39-50 APP NO. 02-118041

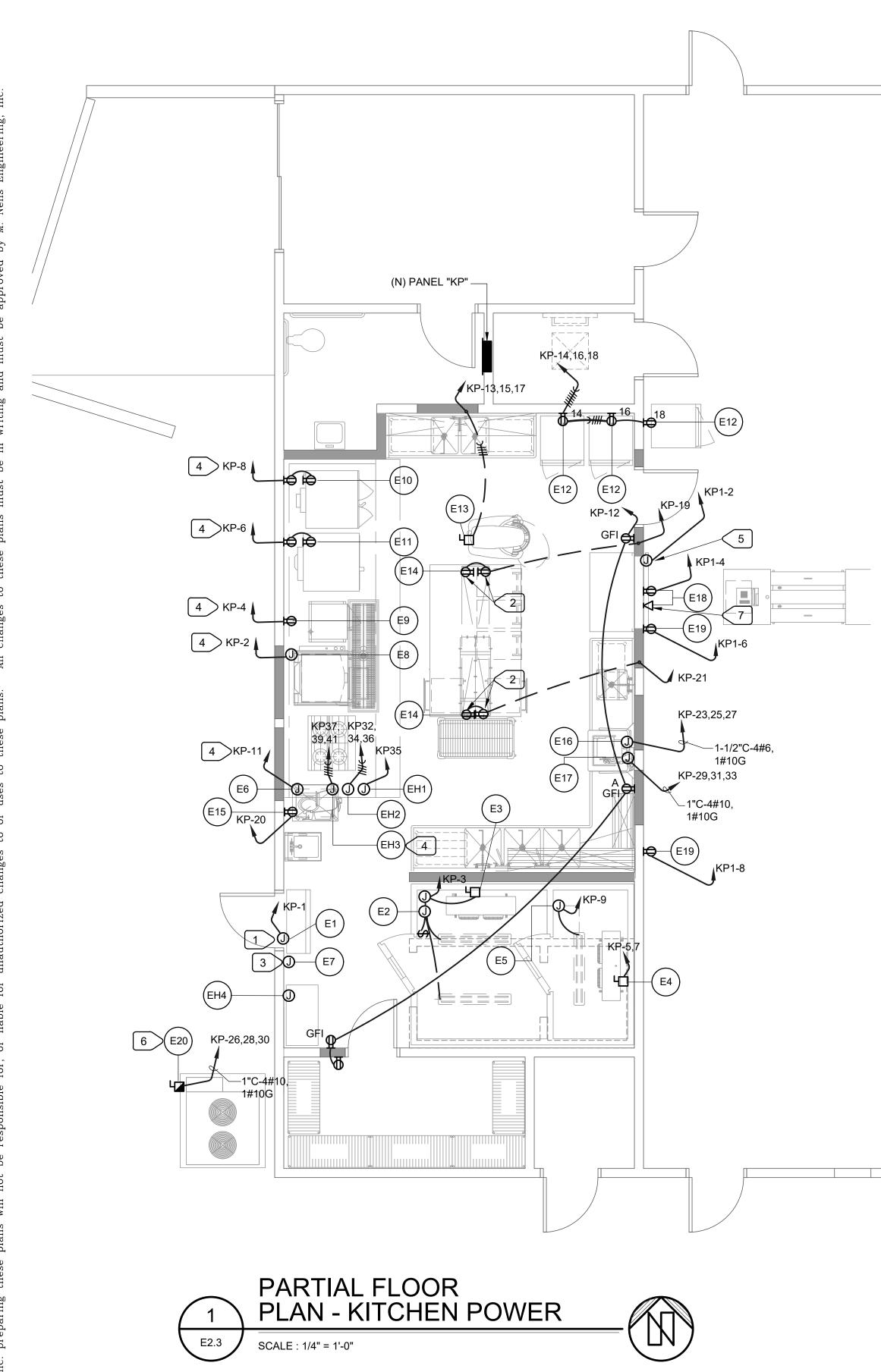
DATE: 04/28/2020

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nue, Suite A 95825 21.2112 2212

730 Howe Avenu Sacramento, CA Phone: 916.921 Fax: 916.921.22

IDENTIFICATION STAMF DIV. OF THE STATE ARCHITEC APP. 02-118041 INC: REVIEWED FOR SS 🗹 🛛 FLS 🗹 🗛 ACS 🗹



	DECODIDITION			PH		Q	₹ I	LOA	AD	OUTLET		
ITEM	DESCRIPTION	QTY.	VOLT.	РН	DIRECT	PLU	NEMA	AMPS. DRAW	HP	HEIGHT	REMARKS	NOTE(S)
E1	AIR CURTAIN	1EA.	120	1	x	-	-	9	-	+86	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH	
E2	WALK-IN REFRIGERATOR (BOX)	1EA.	120	1	x	-	-	2.0	-	+88"	(2) 39W LED CLG. MT'D. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. CONTRACTOR TO PROVIDE ALL INTERCONNECTIONS.	1
E3	WALK-IN REFRIGERATOR (COIL)	1EA.	115	1	x	-	-	1.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN REFRIGERATOR. SEE DETAIL H/FS7.1	
E4	WALK-IN FREEZER (COIL)	1EA.	208	1	x	-	-	12.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN FREEZER. SEE DETAIL H/FS7.1	2
(E5)	WALK-IN FREEZER (BOX)	1EA.	120	1	x	-	-	5.0	-	+88"	(1) 39W LED CLG. MT'D. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. 250W DOOR HEATER, 20W P.R.P, 100W WINDOW HEATER EC. TO PROVIDE ALL INTERCONNECTIONS.	1
E6	FIRE SYSTEM AT ANSUL CONTROL AUTOMAN PANEL	1EA.	120	1	x	-	-	20	-	+104"	PROVIDE J-BOX IN WALL, CONNECT TO UNIT ELECTRICAL CONNECTION 120V/1-20AMP @ ANSUL CONTROL	4
E7	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	x	-	-	-	-	+48"	PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX (REMOTE PULL) SEE MANUAL PULL DETAIL 2/FS5.3	5
E8	TILT SKILLET	1EA.	120	1	x	-	-	9.0	-	+25"	PROVIDE J-BOX IN WALL, CONNECT TO UNIT ELECTRICAL CONNECTION	4
(E9)	STEAMER, CONVECTION (2) COMPARTMENT	2EA	120	1	-	X 5	5-15P	1.0	-	+30" +12"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 6' CORD (NEMA 5-15P)	4
(E10)	CONVECTION OVEN DOUBLE STACK	2EA.	120	1	-	X	5-15P	6.0	-	+24" +66"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH STAINLESS STEEL WALL LINING UNIT PROVIDED WITH CORD (NEMA 5-15P)	4
(E11)	CONVECTION OVEN DOUBLE STACK	2EA.	120	1	-	X	5-15P	7.2	-	+24" +66"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH STAINLESS STEEL WALL LINING UNIT PROVIDED WITH CORD (NEMA 5-15P)	4
(E12)	MOBILE WARMING CABINET	3EA.	120	1	-	XE	5-20P	16.7	-	+68"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 10' CORD (NEMA 5-15P)	
(E13)	MIXER	1EA.	208	3	x	-	-	10.0	-	53"	PROVIDE J-BOX OUT OF FLOOR CONNECT TO UNIT ELECTRICAL CONNECTION	
(E14)	CHEFS COUNTER	2EA.	120	1	x	-	-	15EA	-	+34"	PROVIDE DOUBLE FACED PEDISTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721) (TOTAL OF 6 DCO	
(E15)	SLICER	1EA	120	1	-	XE	5-15P	4.0	-	+30"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 6' CORD (NEMA 5-15P)	
(E16)	HIGH TEMP WAREWASHER (TANK HEAT/MOTORS)	1EA.	208	3	x	-	-	24.9	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
(E17)	HIGH TEMP WAREWASHER (BOOSTER HEATER)	1EA.	208	3	x	-	-	20.4	_	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
(E18)	CASHIER STATION (DATA) AND (POWER) VERIFY W/ DISTRICT FURNISHED POS UNIT	2EA.	120	1	-	x	-	20	-	+0"	PROVIDE (2) FLUSH IN WALL MT'D DATA PLUGS (2) FLUSH IN WALL ELECTRICAL OUTLETS (VERIFY W/ DISTRICT POS REQ.)	
(E19)	MILK COOLER	2EA.	120	1	-	X 5	5-15P	8.2	-	+18"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	
(E20)	REMOTE REFRIGERATION	1EA.	208	3	x	-	-	17.9	-	+18"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION UNIT TO BE LOCATED ON ROOF.	

1. - THE ELECTRICAL CONTRACTOR SHALL INSTALL AND INTER WIRE LIGHT SWITCHES AND FIXTURES REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND MAKE FINAL CONNECTIONS.

2. - THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL INSTALL THE PRESSURE RELIEF PORT, DOOR HEATERS, DRAIN LINE HEATERS AND TEMPERATURE ALARM SYSTEM. INTER WIRING AND FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR. 3. - THE ELECTRICAL CONTRACTOR SHALL INTERWIRE THE TIME CLOCK ON THE CONDENSING UNIT TO THE

DEFROST RELAY ON THE UNIT EVAPORATOR LOCATED IN THE FREEZER COMPARTMENT. 4. - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM WITH ALL CONDUIT IN SO FAR AS POSSIBLE MOUNTED ON THE EXTERIOR CEILING OF THE WALK-IN ASSEMBLY. PENETRATIONS AND ESCUTCHEON PLATES SHALL BE FURNISHED AND

INSTALLED BY THE FOOD SERVICE CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR SEALING THE INSIDE OF CONDUITS WHICH PENETRATE THE CEILING OR WALL.

EXHAUST HOOD ELECTRICAL SCHEDULE

ITEM	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA WATT	LOAD AMPS. DRAW	HP	OUTLET HEIGHT	REMARKS	NOTE(S)
(EH1)	EXHAUST HOOD (ENERGY MANAGEMENT SYSTEM LIGHTS)	1EA.	120	1	x	-		15	-	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.2 FOR ELECTRICAL CONNECTION)	3
EH2	EXHAUST HOOD (FANS CONTROLLER EXHAUST)	1EA.	208	3	x	-		10.2	3	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.2 FOR ELECTRICAL CONNECTION)	
EH3	EXHAUST HOOD (FANS CONTROLLER SUPPLY)	1EA.	208	3	x	-		6.1	2	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.14 FOR ELECTRICAL CONNECTION)	4
(EH4)	TOUCH SCREEN USER INTERFACE MOUNT +48"AFF. RECESSED IN WALL	1EA.									CONNECT TO ENERGY MANAGEMENT SYSTEM IN UTILITY CABINET AT END OF HOOD ITEM 5 WITH CAT5 CABLE (NO POWER REQUIRED AT THIS LOCATION)	

NUMBERED NOTES:
1 CONNECT VIA MICRO SWITCH FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
2 MOUNT ON THE COUNTER. REFER TO KITCHEN EQUIPMENT ELECTRICAL SCHEDULE.
3 OCTAGONAL BOX FOR MANUAL PULL STATION FOR ANSUL SYSTEM. PROVIDE 3/4"C.O. FROM BOX TO ANSUL SYSTEM. REFER TO KITCHEN EQUIPMENT ELECTRICAL SCHEDULE. COORDINATE WITH KITCHEN CONTRACTOR BEFORE ROUGH IN.
4 CONNECTED TO SHUNT TRIP CKT. BRKR. REFER TO 2/E3.0.
5 PROVIDE FOR AND CONNECT ROLL UP DOOR. PROVIDE ALL APPURTENANCES AS REQUIRED BY DOOR MANUFACTURER. LOCATE DOOR CONTROLS AS DIRECTED IN FIELD.
6 LOCATED ON THE ROOF.
7 REFER TO FLOOR PLAN - SIGNAL.

1 INTERCONNECT TEMP ALARM WITH MECHANICAL ALARM SYSTEM

2 DRAIN LINE HEATER CONNECTED TO COIL. F.S.ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT TO COIL

3 120V/1 PHASE FOR LIGHTS TO ONE PRE-WIRED CONN. POINT ON HOOD FOR LIGHTS PRE-WIRED BY FACTORY, ELECTRICAL CONTRACTOR TO CONNECT HOOD LIGHTS AT (2) HOODS BY FACTORY. ELECTRICAL CONTRACTOR TO CONNECT HOOD LIGHTS AT (2) HOODS

4 ELECTRICAL CONTRACTOR TO PROVIDE INTERLOCK WIRING FROM FIRE ALARM SYSTEMS TO ELEC. SHUNT TRIP BREAKERS.

5 ELECTRICAL CONTRACTOR TO PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.

6 ELECTRICAL CONTRACTOR TO INSTALL WALL MOUNTED ENERGY MANAGEMENT CONTROL PANEL PROVIDED BY HOOD MANUFACTURE FOR HOOD LIGHTS AND FAN CONTROLS

7 ELECTRICAL CONTRACTOR TO INTERCONNECT POWER FROM HOOD CONTROL PANEL LOCATED ON WALL WITH EXHAUST DVC-111 DEMAND CONTROL.



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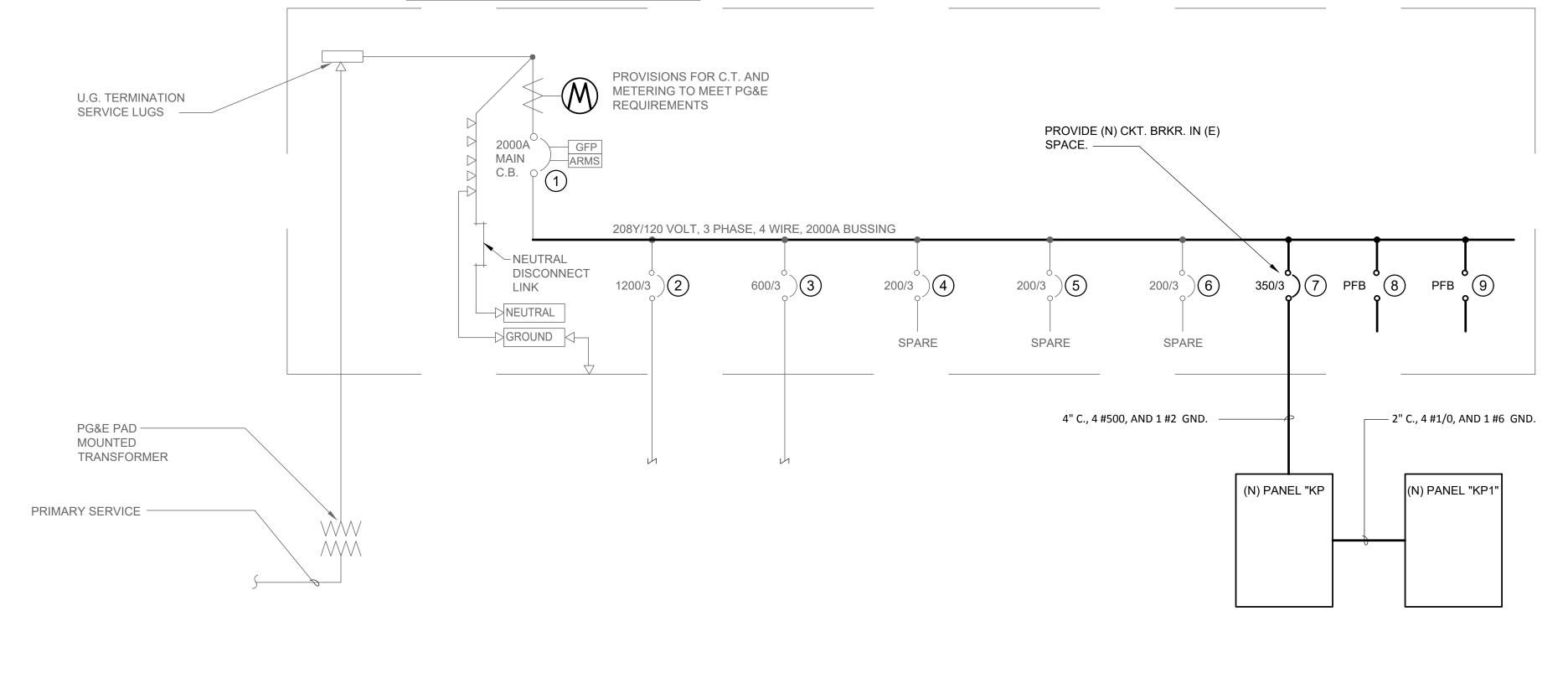
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 PROJECT #: 19276.21

FILE NO. 39-50 A	APP NO. 02-118041
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	HENRY+ Associates Architects
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KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	PARTIAL FLOOR PLAN - KITCHEN EQUIPMENT POWER
STATE OF	SSIONAL BASSIE 20229 S-31-21 RICAL CALIFORNIA
PROJECT NO. 19-32-050	REVISIONS BY
DATE 04/10/2020 DRAWN	
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(E) MAIN SWITCHBOARD "MS-N"





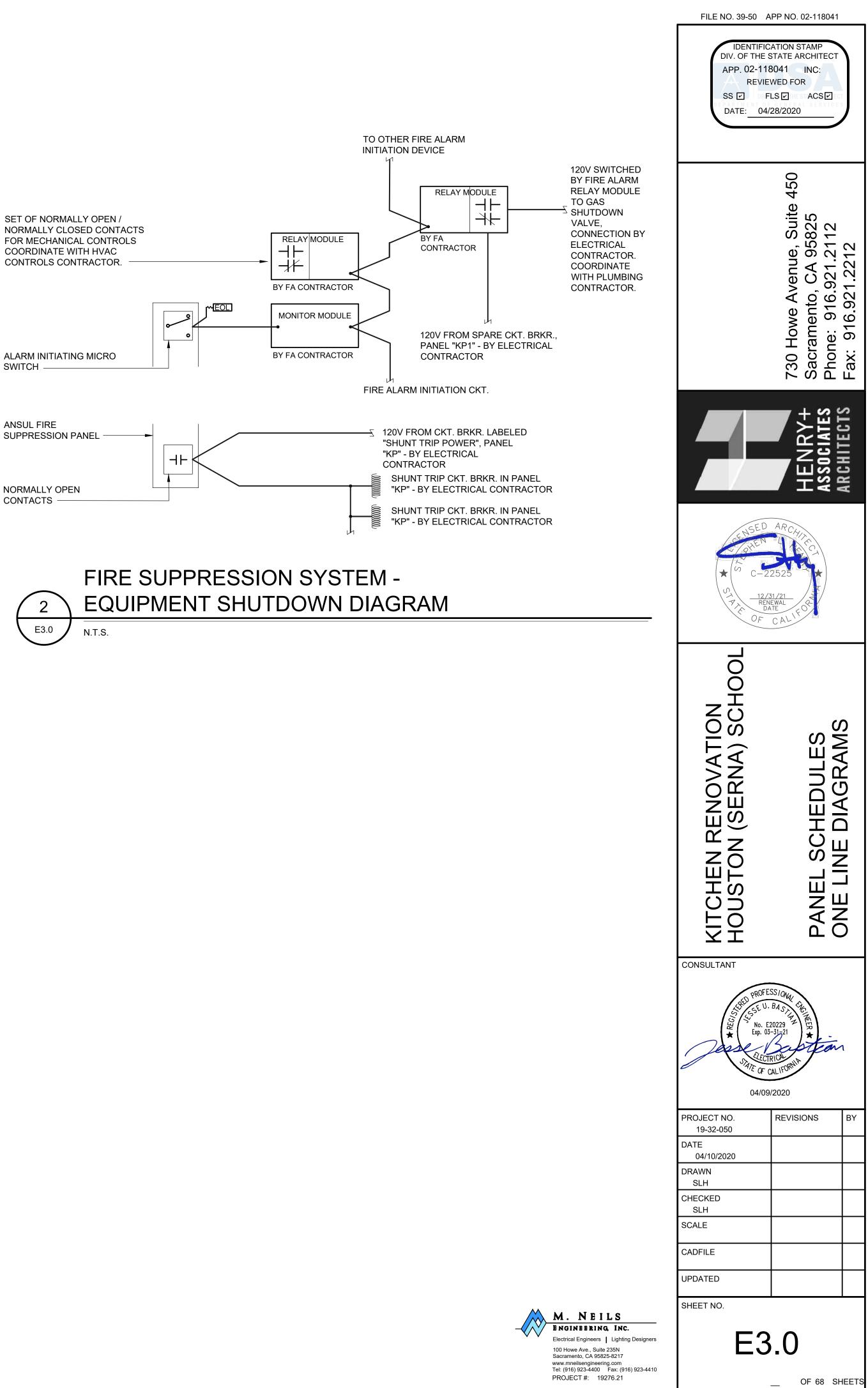
		Ν	EW PA	NEL	"KP	" SC	HEDUL	-E			
POWER SOL	JRCE: MAIN SW	TICHBOAR	D "MS-N"		LOCATION: SEE PLANS						
TYPE:	BUS: 400	MAIN BKR: 350A SUB FD: 150A	VOLTAGE: 120/208 VO 3 PHASE, 4 WIRES			LT,	MOUNTIN	IG: FLUSH	REMARKS: _k AIC MIN. SYMM.		
LOAD	SERVED	kVA	СВ	скт	PHASE	скт	СВ	kVA	LOAD	SERVED	
AIR CURTAIN	1	1.1	20/1	1	A	2	20/1 (1.)	1.1	TILT SKILET		
WALK-IN REI	FRIGERATOR	0.3	20/1	3	В	4	20/1 (1.)	0.5	STEAMER C	ONVECTION	
WALK-IN FRE		1.3	20/2	5	С	6	20/1 (1.)	1.7	CONVECTIC	NOVEN	
		1.3	20/2	7	А	8	20/1 (1.)	1.7	CONVECTIC	N OVEN	
WALK-IN FRE	EEZER	0.6	20/1	9	В	10	20/1	0.5	SHUNT TRIP	POWER	
ANSUL SYST	πЕМ	0.6	20/1	11	С	12	20/1	1.0	CONV. REC	EPTACLES	
				13	А	14	20/1	2.0	MOBILE WA	RMING CAB.	
MIXER		1.2	20/3	15	В	16	20/1	2.0	MOBILE WA	RMING CAB.	
	-	1.2		17	С	18	20/1	2.0	MOBILE WA	RMING CAB.	
CHEFS COUNTER RECEPT		1.0	20/1	19	А	20	20/1	0.5	SLICER		
CHEFS COU	FS COUNTER RECEPT 1.0		20/1	21	В	22	20/1	0.5	GAS SHUTE	OWN	
		3.0		23	С	24	20/1		SPARE		
HIGH TEMP. WASHER		3.0	45/3	25	А	26		2.2			
		3.0		27	В	28	30/3	2.2	REMOTE REFRIGERAT		
		2.5		29	С	30	-	2.2			
HIGH TEMP.	WASHER	2.5	30/3	31	А	32	1.3				
		2.5		33	В	34	20/3	1.3	EXHAUST H	OOD	
EXHAUST HO	DOD	1.8	20/1	35	С	36		1.3			
		1.2		37	А	38		19.3			
EXHAUST HO	DOD	1.2	20/3 (1.)	39	В	40	150/3	18.6	PANEL "KP	1"	
				41	С	42		15.2			
<u>NOTE(S):</u> 1. 2.	PROVIDE SHU	INT TRIP CK	T. BRKR.					PHASE A= PHASE B= PHASE C=	35.4	kVA kVA kVA	
3.								TOTAL = TOTAL =		kVA Amperes	

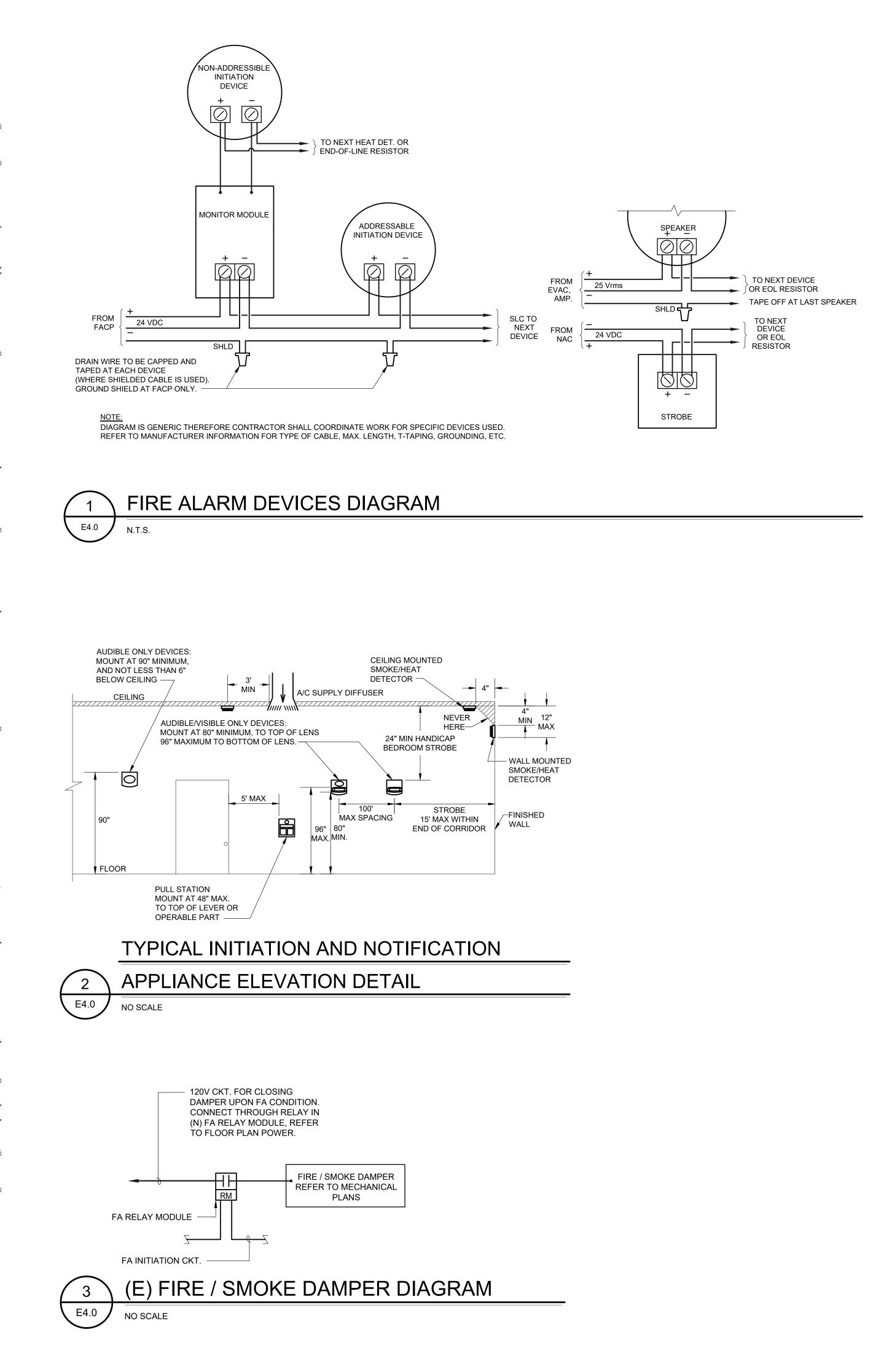
POWER SOURCE: PANEL "KP" LOCATION: SEE PLANS										
TYPE:	BUS: 250	MAIN BKR 150A SUB FD: NA)/208 VO WIRES	LT,	MOUNTI	NG: FLUSH	REMARKS: _k AIC MIN. SYMM.	
LOAD S	ERVED	kVA	СВ	скт	PHASE	скт	СВ	kVA	LOAD S	ERVED
LIGHTING		0.8	20/1	1	A	2	20/1	0.5	ROLL UP DOC	DR
EXISTING LOA	۱D	1.1	20/1	3	В	4	20/1	0.6	P.O.S. RECEI	PTACLE
EXISTING LOA	۱D	1.1	20/1	5	С	6	20/1	1.2	MILK COOLER	٦
EXISTING LOA	۱D	1.1	20/1	7	A	8	20/1	1.2	MILK COOLER	२
EXISTING LOA	۱D	1.1	20/1	9	В	10	25/2	2.1		
EXISTING LOA	۱D	1.1	20/1	11	C C	12	20/2	2.1	SHPO-A1	
COND. PUMP	S/DUCT FANS	1.9	20/1	13	A	14	45/0	3.7		
ROOF RECEF	OOF RECEPTACLE 0.8		20/1	15	В	16	45/2	3.7	SHPO-A2	
GWH / CP - A1 0.8		0.8	20/1	17	C C	18	25/2	2.1		
HTC-A1 (1.) 1.		1.2	20/1	19	A	20	2.1		SHPO-A3	
OVREHED DO	DOR	0.5	20/1	21	В	22	20/1	1.9	IOAF	
FIRE SMOKE	DAMPER	0.1	20/1	23	c	24	20/1		SPARE	
SPARE			20/1	25	A	26		6.8		
SPARE			20/1	27	В	28	70/3	6.8	AC A-2	
SPARE			20/1	29	c	30		6.8		
SPARE			20/1	31	A	32	20/1		SPARE	
SPARE			20/1	33	В	34	20/1		SPARE	
SPARE			20/1	35	с	36	20/1		SPARE	
SPACE			PFB	37	A	38	PFB		SPACE	
SPACE			PFB	39	В	40	PFB		SPACE	
SPACE										

NORMALLY CLOSED CONTACTS FOR MECHANICAL CONTROLS COORDINATE WITH HVAC CONTROLS CONTRACTOR.

	MEOL
ALARM INITIATING MICRO SWITCH	

ANSUL FIRE SUPPRESSION PANEL -	
NORMALLY OPEN CONTACTS ————	

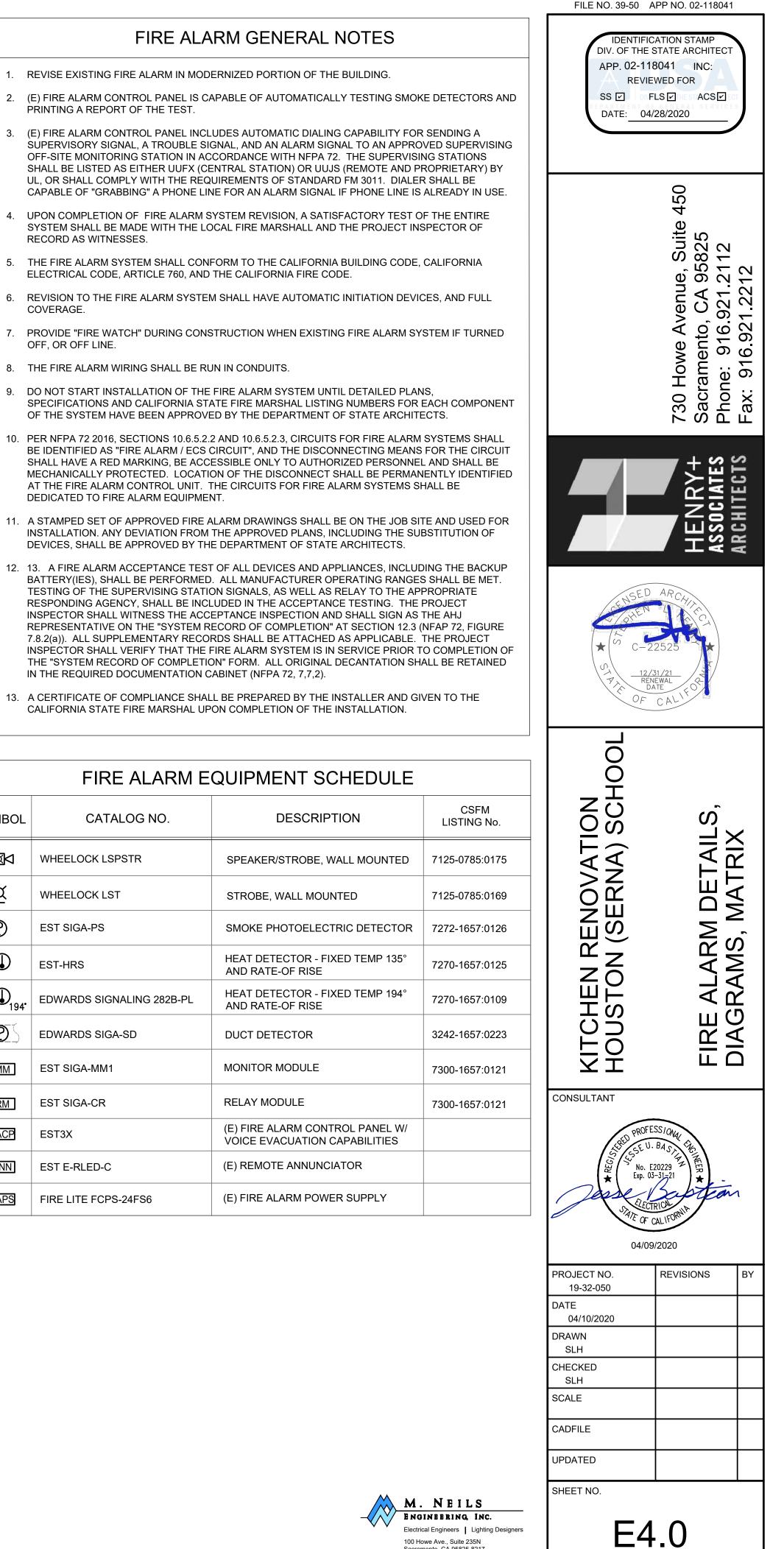




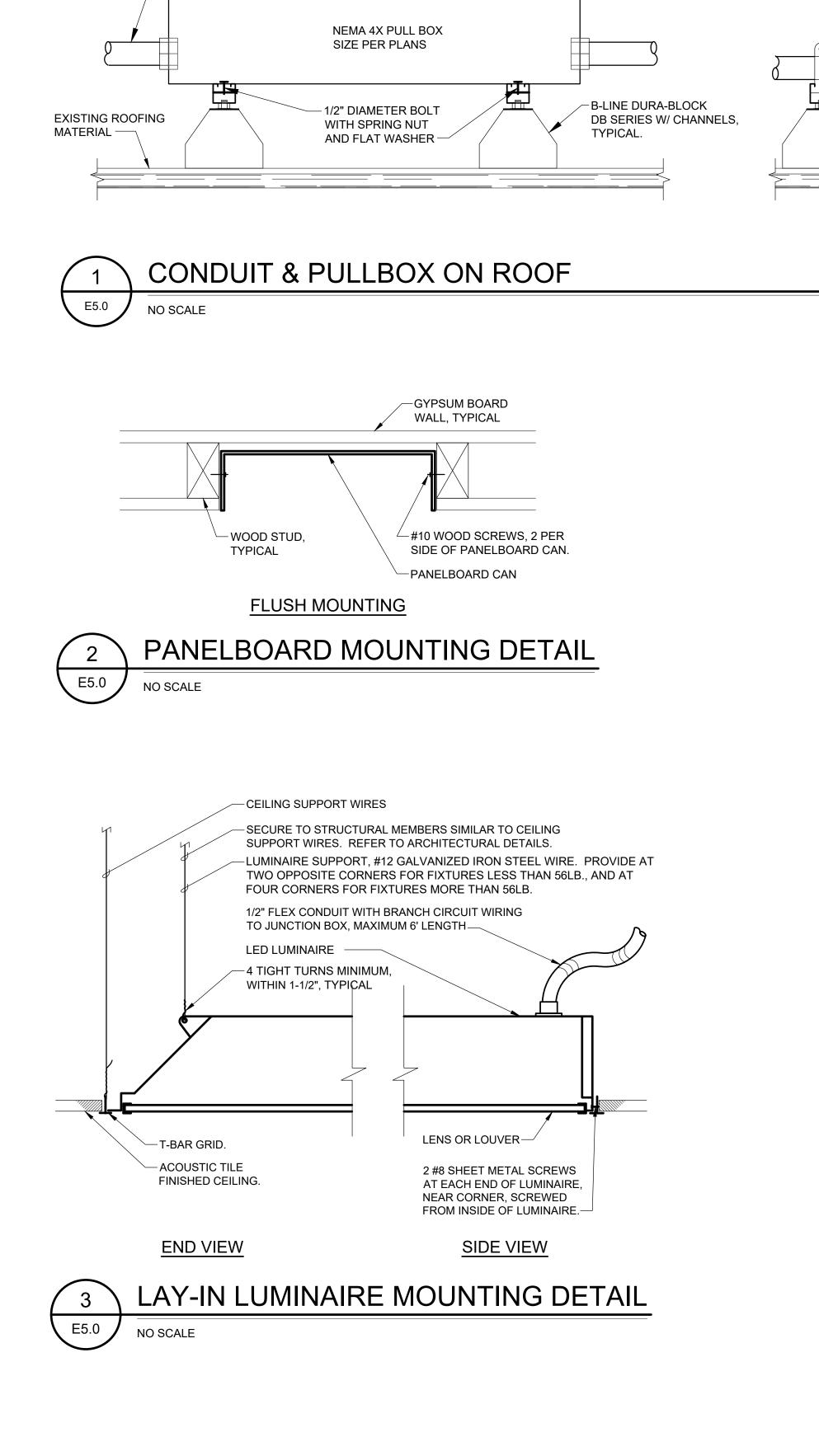
FIRE ALARM SEQUENCE OF OPERATION MATRIX										
	FACP ALARM	FACP TROUBLE	ALARM SIGNAL OFF-SITE	TROUBLE SIGNAL OFF-SITE	ACTIVATE AUDIO/VISUAL THROUGHOUT	ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITIONS	SHUT OFF GAS SUPPLY TO KITCHEN	SHUT OFF POWER TO DEVICES UNDER KITCHEN HOOD	SEND SIGNAL TO MECHANICAL CONTROLS TO INITIATE REQUIRED ACTIONS BY MECHANICAL CONTROLS	ANNUNCIATE ALARM AT REMOTE ANNUNCIATOR
AREA SMOKE DETECTOR	Х		Х		Х					Х
HEAT DETECTORS	Х		Х		Х					Х
DUCT DETECTOR	Х		X		X				X	Х
KITCHEN HOOD FIRE SUPPRESSION SYSTEM	Х		Х		Х		Х	Х	Х	Х
POWER FAILURE		Х			X					Х
NOTIFICATION CIRCUIT CLASS B										
OPEN WIRE		Х			Х					
GROUNDED WIRE		Х			Х	R				
SHORTED WIRES		Х			Х					
SIGNALING LINE CIRCUIT CLASS B										
OPEN WIRE		Х			Х					
GROUNDED WIRE		Х			Х	R				
WIRE TO WIRE (SHORT & OPEN)		Х			Х					
WIRE TO WIRE (SHORT & GROUND)		Х			Х					
OPEN & GROUND		Х			Х					
LOSS OF CARRIER		Х			Х					
NOTE: BLANK MEANS NOT APPLICABLE R = REQUIRED ACTION										

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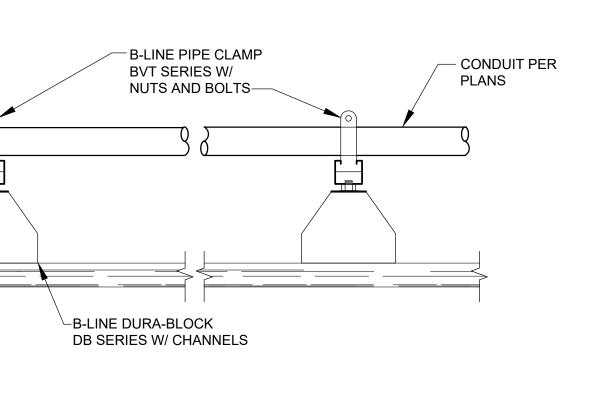


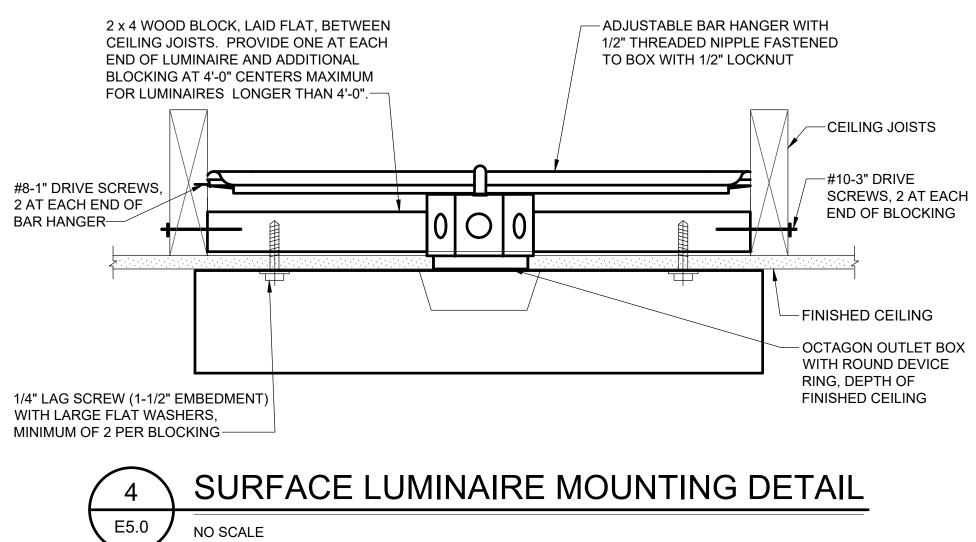
100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19276.21



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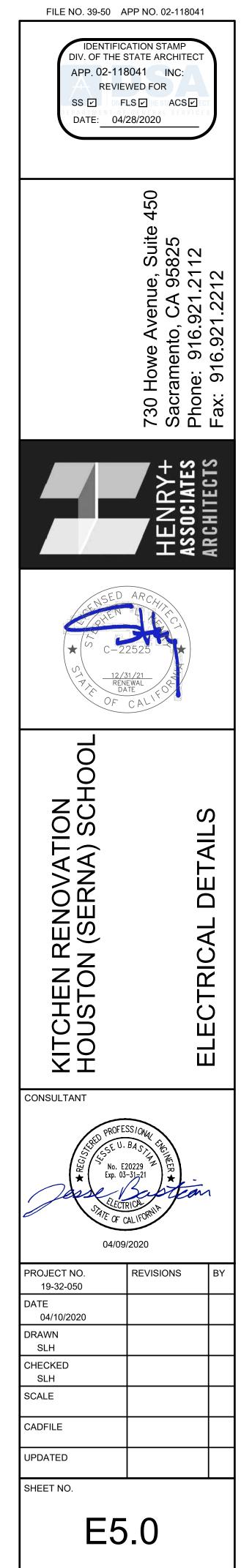
PLANS

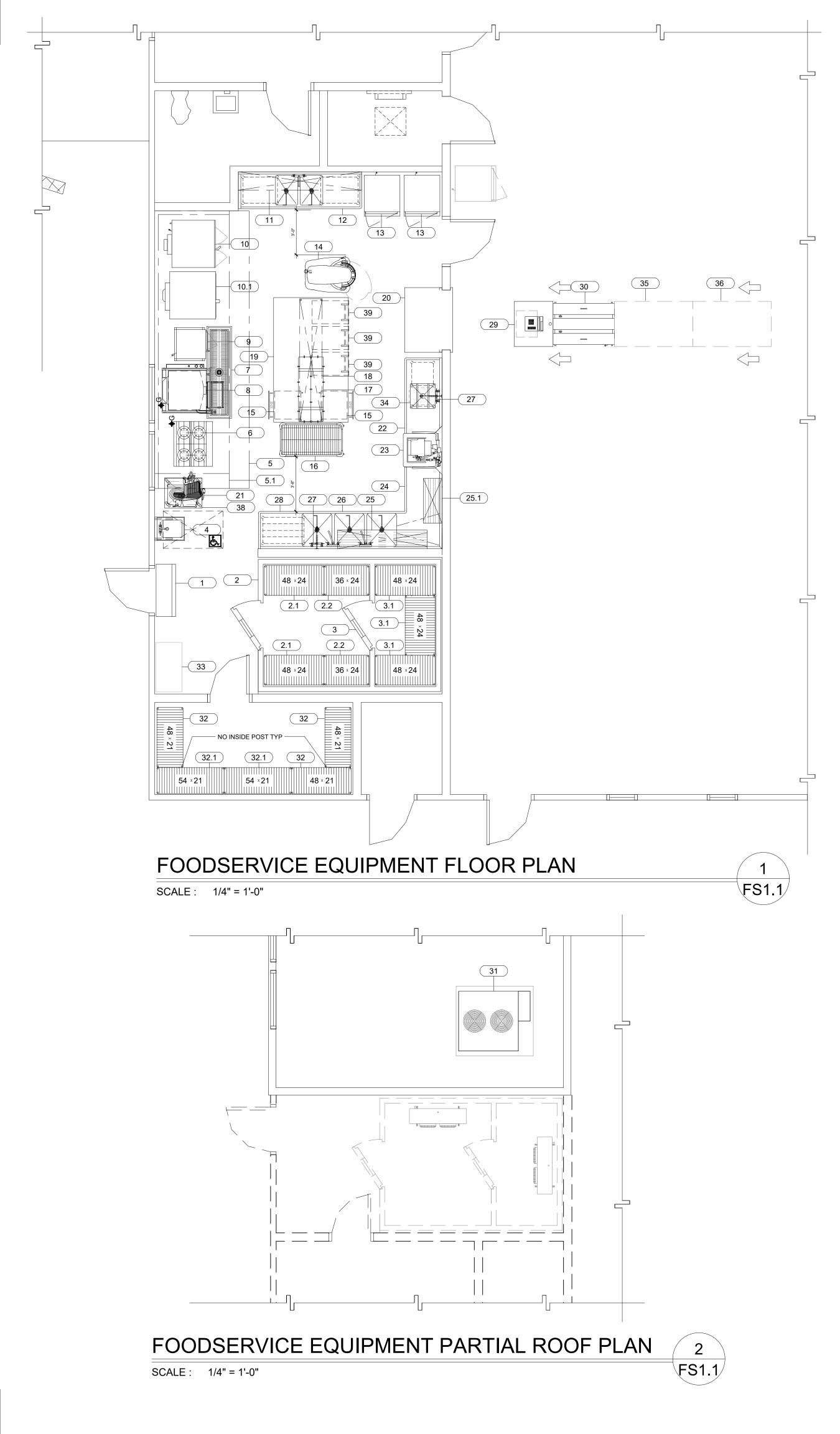






M. NEILS ENGINEERING, INC. Electrical Engineers Lighting Designers 100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19276.21





			EQUIP	MENT SCHEDUL	E		
ITEM NO	STAT	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	WEIGHTS (LBS.)	ANCHORAGE DETAILS
1	CFCI	1	AIR CURTAIN, UNHEATED	MARS AIR SYSTEMS	HV242-1U*	120	A/FS8.2
2	CFCI	1	WALK-IN REFRIGERATOR	DURACOLD	FABRICATED ITEM	8.5 LBS PER SQ.FT. OF 4" PANEL	A/FS6.1
2.1	CFCI	2	COLD STORAGE SHELVING	METRO	A2448NK3	31	G/FS8.2
2.2	CFCI	2	COLD STORAGE SHELVING	METRO	A2436NK3	28	G/FS8.2
3	CFCI	1	WALK-IN FREEZER	DURACOLD	FABRICATED ITEM	8.5 LBS PER SQ.FT. OF 4" PANEL	B/FS6.1
3.1	CFCI	3	COLD STORAGE SHELVING	METRO	A2448NK3	31	G/FS8.2
4	CFCI	1	HAND SINK W/ WRIST HANDLES FAUCET W/SPLASH GUARDS	EAGLE GROUP	YAMD-HSAP-14-0001-00	85	E/FS8.2
5	CFCI	2	EXHAUST HOOD (TYPE 1) AND S/S WALL LINING	CAPTIVE AIRE	ND-2-PSP-F	564	2/FS5.1
5.1	CFCI	1	FIRE SYSTEM (UL300)	ANSUL	R-102		
6	OFCI	1	OPEN BURNER RANGE W/ OVEN	IMPERIAL	IR-4-S18	600	D-C/FS8.2
7	CFCI	1	FLOOR TROUGH W/ADA GRATE	EAGLE	FT-1872-SG	55	F/FS8.1
8	CFCI	1	TILT SKILLET W/ELEC TILT, W/LEFT HAND BRACKET FAUCET	VULCAN	VG30-BPDOV-1	645	D-C/FS8.2
9	OFCI	1	STEAMER, CONVECTION (2) COMPARTMENT	ACCUTEMP	N61201E DBL	560	D-C/FS8.2
10	OFCI	1	CONVECTION OVEN DOUBLE STACK	MONTAGUE	HX2-63A	1205	D-C/FS8.2
10.1	CFCI	1	CONVECTION OVEN DOUBLE STACK	BLODGETT	DFG200 DOUBLE	1130	D-C/FS8.2
11	CFCI	1	WALL SHELF	CUSTOM	FABRICATED ITEM	47	H/FS8.1
12	CFCI	1	PREP SINK	CUSTOM	FABRICATED ITEM	225	A/FS8.1
13	OFCI	2	MOBILE WARMING & HOLDING CABINET	CRESCOR	H138S1834C2K	326	CASTERS
14	OFCI	1	MIXER	HOBART	HL600	916	I/FS8.1
15	CFCI	2	THREE STACK UTENSIL DRAWER UNIT	CUSTOM	FABRICATED ITEM	36	
16	CFCI	 1	MOBILE POT AND PAN STORAGE SHELVING	METRO	N556MC	118	CASTERS
17	CFCI	1	TABLE MOUNTED POT RACK	EAGLE GROUP	TM60PR	64	CAUTEING
18	CFCI	1	DOUBLE TABLE MOUNTED OVERSHELF	CUSTOM	FABRICATED ITEM	55	
19	CFCI	1	CHEFS COUNTER	CUSTOM	FABRICATED ITEM	475	D-C/FS8.2
	CFCI	1	SERVING COUNTER	CUSTOM	FABRICATED ITEM	35	D-C/FS8.2
20		1					D-C/F30.2
21	OFCI	1		HOBART	EDGE 12	85	D/500.4
22	CFCI	1	SOILED DISHTABLE	CUSTOM		47	B/FS8.1
23	OFCI	1	WAREWASHER, DOOR TYPE, HIGH TEMP VENTLESS	HOBART	AM15VLT-2	494	D-C/FS8.2
24	CFCI	1	CLEAN DISHTABLE	CUSTOM	FABRICATED ITEM	42	B/FS8.1
25	CFCI	1	TUBULAR WALL MTD. DRAINAGE SHELVF	ADVANCE TABCO	DT-6R-72	46	H/FS8.1
25.1	CFCI	1	TUBULAR WALL MTD. DRAINAGE SHELVF	ADVANCE TABCO	DT-6R-36	23	H/FS8.1
26	CFCI	1	THREE COMP. SINK W/ DRAIN STRAINER FPS-610A	CUSTOM	FABRICATED ITEM	225	A/FS8.1
27	CFCI	2	PRE-RINSE FAUCET, BACKSPLASH MOUNT	FISHER	13390	12	
28	CFCI	1	SOILED DISHTABLE	CUSTOM	FABRICATED ITEM	47	B/FS8.1
29	OFCI	1	CASHIER STATION VERIFY UTILITY REQUIREMENTS				CASTERS
30	OFOI	1	MILK COOLER	BEVERAGE AIR	SMF58	458	CASTERS
31	CFCI	1	REMOTE REFRIGERATION	COOLTEC	CRS-4	800	A/FS7.1
32	CFCI	3	DRY STORAGE SHELVING	METRO	A2148NC	28	F/FS8.2
32.1	CFCI	2	DRY STORAGE SHELVING	METRO	A2154NC	16	F/FS8.2
33	OFOI	1	DESK				
34	CFCI	1	SCRAP SINK W/ DRAIN STRAINER FPS-610A	CUSTOM / DRAIN STRAINER	FABRICATED ITEM	51	A/FS8.1
35	OFOI	1	SERVING LINE	AMBIENT			
36	OFOI	1	SERVING LINE	AMBIENT			
37			SPARE				
38	CFCI	1	MOBILE SLICER CART	CADDY CORPORATION	T-243-A	95	CASTERS
39	OFOI	3	INGREDIENT BIN	CAMBRO	IB44148	30	CASTERS

			I CODOEINIOE EQ		
	SYMBOL/ABBRE	VIATION	DESCRIPTION	SYMBOL	DESCRIPTION
	OFCI	OWNER FU	RNISH / CONTRACTOR INSTALLED	CLR.	ACCESSIBLE CLEARANCES AND SYMBOL
	OFOI	OWNER FU	RNISH / OWNER INSTALLED		30"x48" MIN CLEARANCE
Г	CFCI	CONTRACT	OR FURNISH CONTRACTOR INSTALLED	48" CLR.	
	(E), EXIST	EXISTING F	OODSERVICE EQUIPMENT		OUTLINE OF (N) FOODSERVICE EQUIPMENT
	(N), NEW	NEW FOOD	SERVICE EQUIPMENT		
	(F)	FUTURE FO	ODSERVICE EQUIPMENT		OUTLINE OF (E) FOODSERVICE EQUIPMENT
		BUILDING W	VALLS (SEE ARCH. DWGS.)		FOODSERVICE EQUIPMENT BELOW EQUIPMENT TOP
		WALK-IN CO	DOLER/ FREEZER INSULATED WALLS		
		KEY / SHEE	TNOTE		FOODSERVICE EQUIPMENT ABOVE EQUIPMENT TOP
			ER SYMBOL (SEE EQUIPMENT FOR DESCRIPTION)		MOBILE FOODSERVICE EQUIPMENT
FOR FIRE	KITCHEN	ROOM/ ARE	A NAME AND ROOM NUMBER	F.E."K"	F.E.C. (PROVIDE TYPE "K" AND 2A:10BC (MINIMUM)) FIRE EXTINGUISHER & CABINET REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS
ia inical ornia	C	COLUMN G	RIDS WITH COLUMN INDICATORS	FS.01	SHEET NUMBER
ENT ED PER	48(#)18	STORAGE S	SHELVING SIZES (Width x Length)	W.H.	WATER HEATER (SEE PLUMBING ENG. DWG.)
ETY DCAL				A FS0.1 B	ELEVATION INDICATOR SYMBOL

FOODSERVICE DRAWING SHEET LIST

- FS1.1- FOODSERVICE EQUIPMENT FLOOR AND PARTIAL ROOF PLAN
- FS2.1- FOODSERVICE EQUIPMENT PLUMBING PLAN FS3.1- FOODSERVICE EQUIPMENT ELECTRICAL AND PARTIAL ROOF PLAN
- FS4.1- FOODSERVICE EQUIPMENT MECHANICAL AND BLOCKING PLAN FS4.2- FOODSERVICE EQUIPMENT MECHANICAL SCHEDULE
- FS5.1- FOODSERVICE EQUIPMENT EXHAUST HOOD PLAN
- FS5.2-FOODSERVICE EQUIPMENT EXHAUST HOOD PLAN FS5.3- FOODSERVICE EQUIPMENT EXHAUST HOOD FIRE SYSTEM
- FS6.1- FOODSERVICE EQUIPMENT WALK-IN REFRIG. DETAILS
- FS6.2- FOODSERVICE EQUIPMENT WALK-IN REFRIG. DETAILS
- FS7.1- FOODSERVICE EQUIPMENT REMOTE REFRIGERATION FS7.2-FOODSERVICE EQUIPMENT REMOTE REFRIGERATION
- FS8.1- FOODSERVICE EQUIPMENT DETAILS
- FS8.2- FOODSERVICE EQUIPMENT DETAILS
- FS9.1- FOODSERVICE EQUIPMENT ELEVATIONS

NOTES:

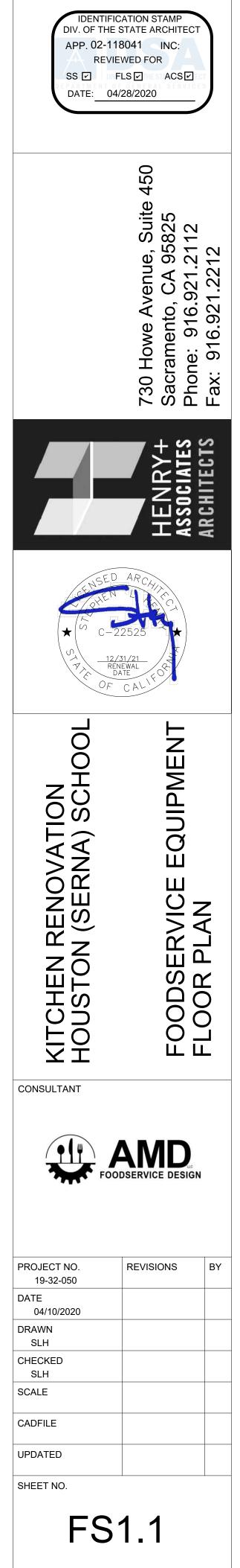
- 1 THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 EDITION OF THE NFPA 17A. (UL 300 SYSTEM) INSTALLATION OF THE FIRE 2 SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE
- PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DEPT. OF STATE ARCHITECT.
- 3 UPON COMPLETION OF THE SYSTEM IT SHALL BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL.

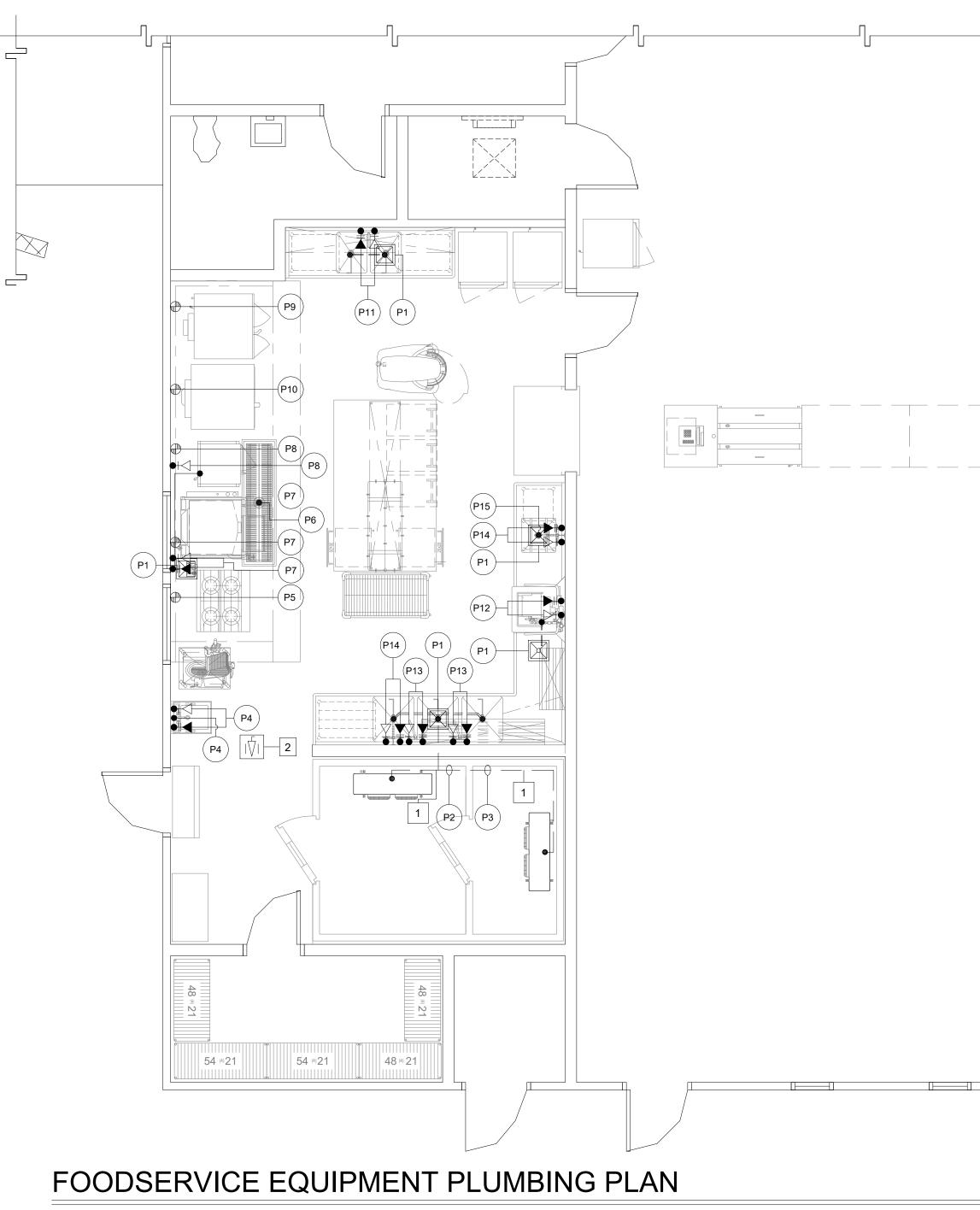
NOTES:

- 1. REFER TO ARCH. DRAWINGS FO EXTINGUISHER LOCATIONS
- 2. "All work shall conform to the California Building Code, California Electrical Code, California Mechanica and Plumbing Codes, <u>California</u> <u>Health and Safety Code.</u>

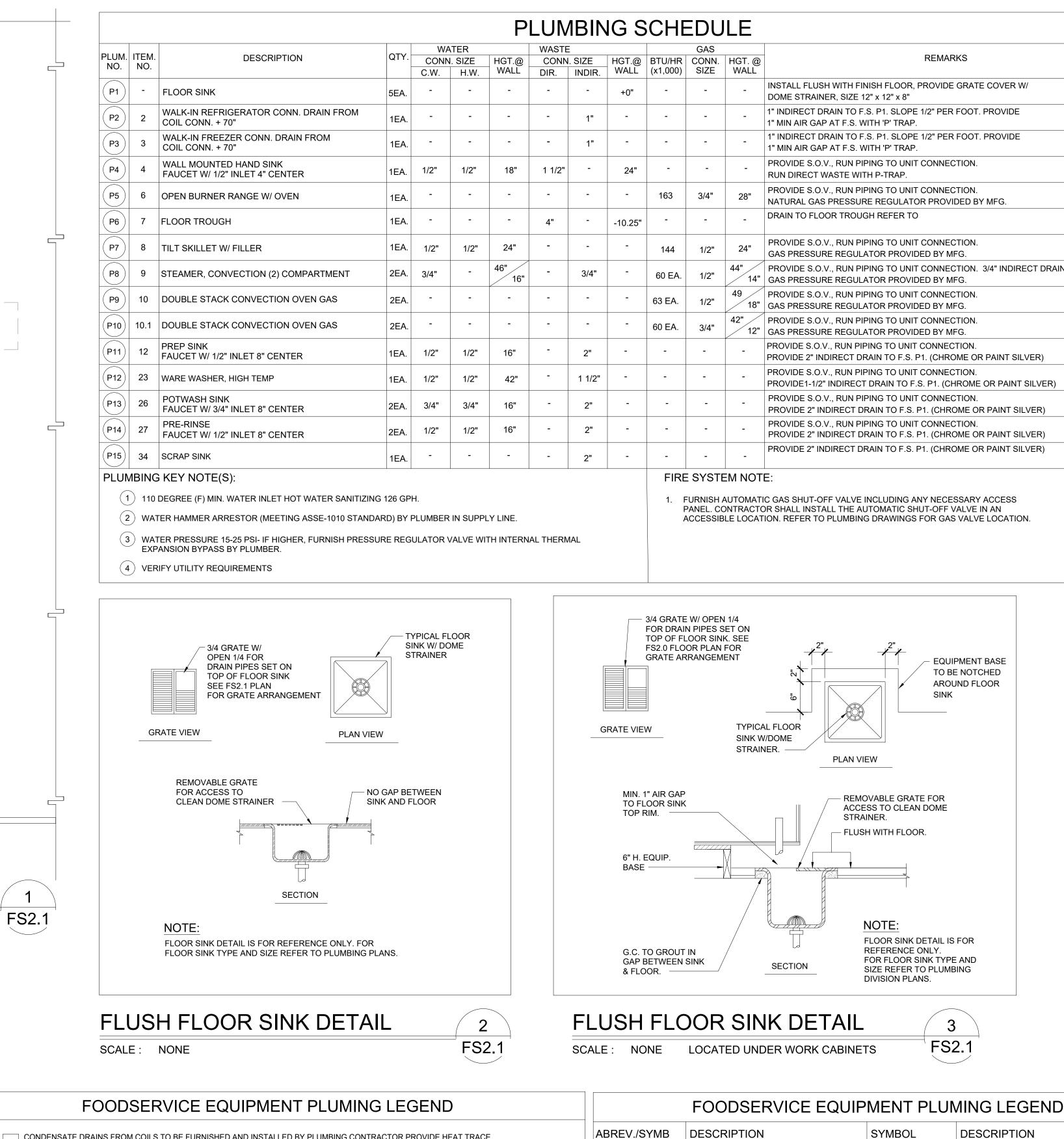
- ALL FOOD SERVICES EQUIPMENT SHALL MEET AND BE INSTALLED I THE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFET
- CODE DIVISION 22 AND ALL LOCA CODES AND ORDINANCES."

FOODSERVICE EQUIPMENT LEGEND





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



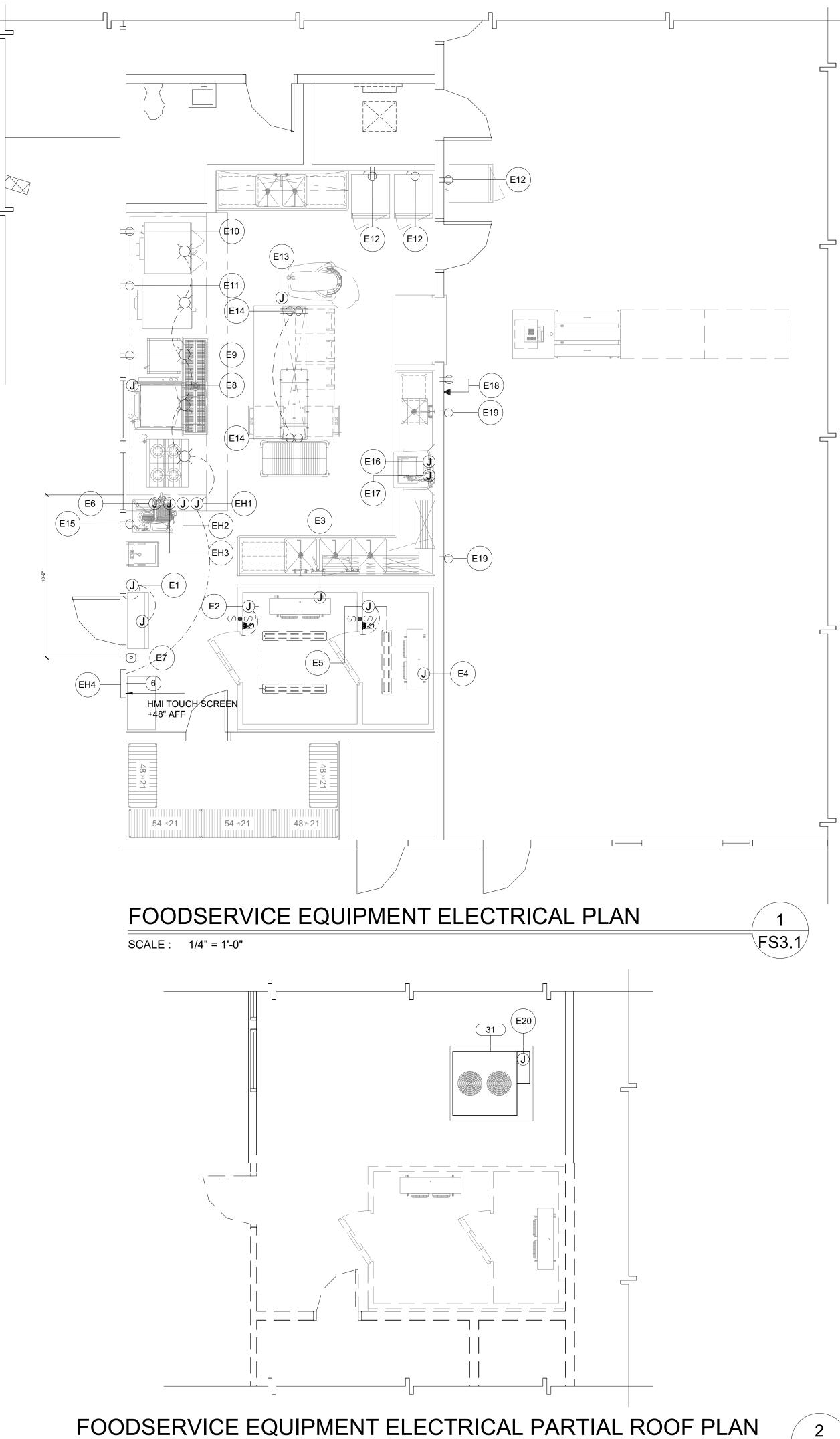
CONDENSATE DRAINS FROM COILS TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR PROVIDE HEAT TRACE WITH INSULATION FROM COIL TO DRAIN (FREEZER)

2 GAS SHUT-OFF VALVE FOR ANSUL SYSTEM WITH ACCESS DOOR. REFER TO PLUMBING PLANS FOR LOCATIONS.

FOODSERVICE EQUIPMENT PLUMING LEGEND									
REV./SYMB	DESCRIPTION	SYMBOL	DESCRIPTION						
C.W.	COLD WATER	(P1)	PLUMBING SCHEDULE REFERENCE, REFER TO FS2.1 FOR SCHEDULE						
H.W.	HOT WATER		REFER TO FS2.1 FOR SCHEDULE						
DIR.	WASTE (DIRECT CONNECTION)		SHEET AND/OR KEY NOTE						
INDIR.	INDIRECT WASTE (AIR GAP)		COLD WATER INLET						
LAV.	LAVATORY	▶⊪●	HOT WATER INLET						
W.C.	WATER CLOSET	\succ							
F.S.	FLOOR SINK		SHUT OFF VALVE (S.O.V.)						
P.C.	PLUMBING CONTRACTOR	o ⊳i	COLD WATER SHUT OFF VALVE						
G.C.	GENERAL CONTRACTOR	ı√ı	GAS SHUT-OFF VALVE						
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		FLOOR SINK						
S.O.V.	SHUT OFF VALVE								
GPH	GALLONS PER HOUR		FLOOR DRAIN						
PSI	POUNDS PER SQUARE INCH		WASTE DOWN						
(F)	DEGREES FAHRENHEIT		GAS INLET						
CONN.	CONNECT		WALK-IN DRAIN LINE						
LOC.	LOCATE		I.D. DRAIN LINE						
			1						

REMARKS	NOTE(S)
INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER, SIZE 12" x 12" x 8"	
1" INDIRECT DRAIN TO F.S. P1. SLOPE 1/2" PER FOOT. PROVIDE 1" MIN AIR GAP AT F.S. WITH 'P' TRAP.	
1" INDIRECT DRAIN TO F.S. P1. SLOPE 1/2" PER FOOT. PROVIDE 1" MIN AIR GAP AT F.S. WITH 'P' TRAP.	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. NATURAL GAS PRESSURE REGULATOR PROVIDED BY MFG.	(4)
DRAIN TO FLOOR TROUGH REFER TO	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. GAS PRESSURE REGULATOR PROVIDED BY MFG.	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. 3/4" INDIRECT DRAIN TO F.S GAS PRESSURE REGULATOR PROVIDED BY MFG.	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. GAS PRESSURE REGULATOR PROVIDED BY MFG.	4
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. GAS PRESSURE REGULATOR PROVIDED BY MFG.	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE1-1/2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	1234
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
	I

FILE NO. 39-50	APP NO. 02-118041
DIV. OF THE APP. 02-11 REVIE	CATION STAMP STATE ARCHITECT 8041 INC: WED FOR 5LS ACS 4
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ C-2 OT 12/ PHEN C-2 OT 12/ REN OF	$\frac{AR_{CAU}}{2525}$
KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	FOODSERVICE EQUIPMENT PLUMBING PLAN
CONSULTANT	AND DSERVICE DESIGN
PROJECT NO. 19-32-050 DATE 04/10/2020 DRAWN SLH CHECKED SLH SCALE CADFILE UPDATED	REVISIONS BY



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

ELECTRICAL SCHEDULE

ELEC.												
NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT. PH	DIRECT	NEMA	WATT	LOAD AMPS. DRAW	HP	OUTLET HEIGHT	REMARKS	NOTE(S)
(E1)	1	AIR CURTAIN	1EA.	120 1	X -	-	-	9	-	+86	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH BY F.S.E.C SEE DETAIL B/ FS8.2	
E 2	2	WALK-IN REFRIGERATOR (BOX)	1EA.	120 1	X -	-	-	2.0	-	+88"	(2) 39W LED CLG. MT'D. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. CONTRACTOR TO PROVIDE ALL INTERCONNECTIONS.	1
E3	2	WALK-IN REFRIGERATOR (COIL)	1EA.	115 1	X -	-	-	1.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN REFRIGERATOR. SEE DETAIL I/FS7.1	
E4	3	WALK-IN FREEZER (COIL)	1EA.	208 1	X -	-	-	12.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN FREEZER. SEE DETAIL I/FS7.1	2
E 5	3	WALK-IN FREEZER (BOX)	1EA.	120 1	X -	-	-	5.0	-	+88"	(1) 39W LED CLG. MT'D. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. 250W DOOR HEATER, 20W P.R.P, 100W WINDOW HEATER EC. TO PROVIDE ALL INTERCONNECTIONS.	. (1)
E 6	5.1	FIRE SYSTEM AT ANSUL CONTROL AUTOMAN PANEL	1EA.	120 1	X -	-	-	20	-	+104"	PROVIDE J-BOX IN WALL, CONNECT TO UNIT ELECTRICAL CONNECTION 120V/1-20AMP @ ANSUL CONTROL	4
E7	5.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA.		X -	-	-	-	-	+48"	PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX (REMOTE PULL) SEE MANUAL PULL DETAIL 2/FS5.3	5
E8	8	TILT SKILLET	1EA.	120 1	X -	-	-	9.0	-	+25"	PROVIDE J-BOX IN WALL, CONNECT TO UNIT ELECTRICAL CONNECTION	4
(E9)	9	STEAMER, CONVECTION (2) COMPARTMENT	2EA	120 1	- X	5-15P		1.0	-	+30" +12"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 6' CORD (NEMA 5-15P)	4
E10	10	CONVECTION OVEN DOUBLE STACK	2EA.	120 1	- X	5-15P	-	6.0	-	+24" +66"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH STAINLESS STEEL WALL LINING UNIT PROVIDED WITH CORD (NEMA 5-15P)	4
(E11)	10.1	CONVECTION OVEN DOUBLE STACK	2EA.	120 1	- X	5-15P	-	7.2	-	+24" +66"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH STAINLESS STEEL WALL LINING UNIT PROVIDED WITH CORD (NEMA 5-15P)	4
(E12)	13	MOBILE WARMING CABINET	3EA.	120 1	- X	5-20P		16.7	-	+68"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 10' CORD (NEMA 5-15P)	
(E13)	14	MIXER	1EA.	208 3	X -	-	-	10.0	-	+6"	PROVIDE J-BOX OUT OF FLOOR CONNECT TO UNIT ELECTRICAL CONNECTION	
(E14)	19	CHEFS COUNTER	2EA.	120 1	X -	-	-	15EA	-	+34"	PROVIDE DOUBLE FACED PEDISTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721) (TOTAL OF 6 DCO OUTLETS)	
(E15)	21	SLICER	1EA	120 1	- X	5-15P		4.0	-	+30"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH 6' CORD (NEMA 5-15P)	
E16	23	HIGH TEMP WAREWASHER (TANK HEAT/MOTORS)	1EA.	208 3	x -	-	-	24.9	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
(E17)	23	HIGH TEMP WAREWASHER (BOOSTER HEATER)	1EA.	208 3	X -	-	-	20.4	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
(E18)	29	CASHIER STATION (DATA) AND (POWER) VERIFY W/ DISTRICT FURNISHED POS UNIT	2EA.	120 1	- X	-	-	20	-	+0"	PROVIDE (2) FLUSH IN WALL MT'D DATA PLUGS (2) FLUSH IN WALL ELECTRICAL OUTLETS (VERIFY W/ DISTRICT POS REQ.)	
(E19)	30	MILK COOLER	2EA.	120 1	- X	5-15P	-	8.2	-	+18"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	
(E20)	31	REMOTE REFRIGERATION	1EA.	208 3	X -	-	-	17.9	-	+18"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION UNIT TO BE LOCATED ON ROOF.	
1 F 2 F 3 F 4 F	HEATERS AND TEMPERATURE ALARM SYSTEM. INTER WIRING AND FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR.								(1) IN (2) D (3) 12 E (4) E B (5) E A	CTRICAL KEYNOTES: INTERCONNECT TEMP ALARM WITH MECHANICAL ALARM SYSTEM VERIFY WITH ELECTRICAL PRAIN LINE HEATER CONNECTED TO COIL. F.S.E.C TO PROVIDE AND CONNECT TO COIL 20V/1 PHASE FOR LIGHTS TO ONE PRE-WIRED CONN. POINT ON HOOD FOR LIGHTS PRE-WIRED BY FACTORY .C TO CONNECT HOOD LIGHTS AT (2) HOODS ILECTRICAL CONTRACTOR TO PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SH REAKERS. LECTRICAL CONTRACTOR TO PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDU BOVE CEILING. .C TO INSTALL WALL MOUNTED ENERGY MANAGEMENT CONTROL PANEL PROVIDED BY HOOD	HUNT TRIP	

EXHAUST HOOD ELECTRICAL SCHEDULE

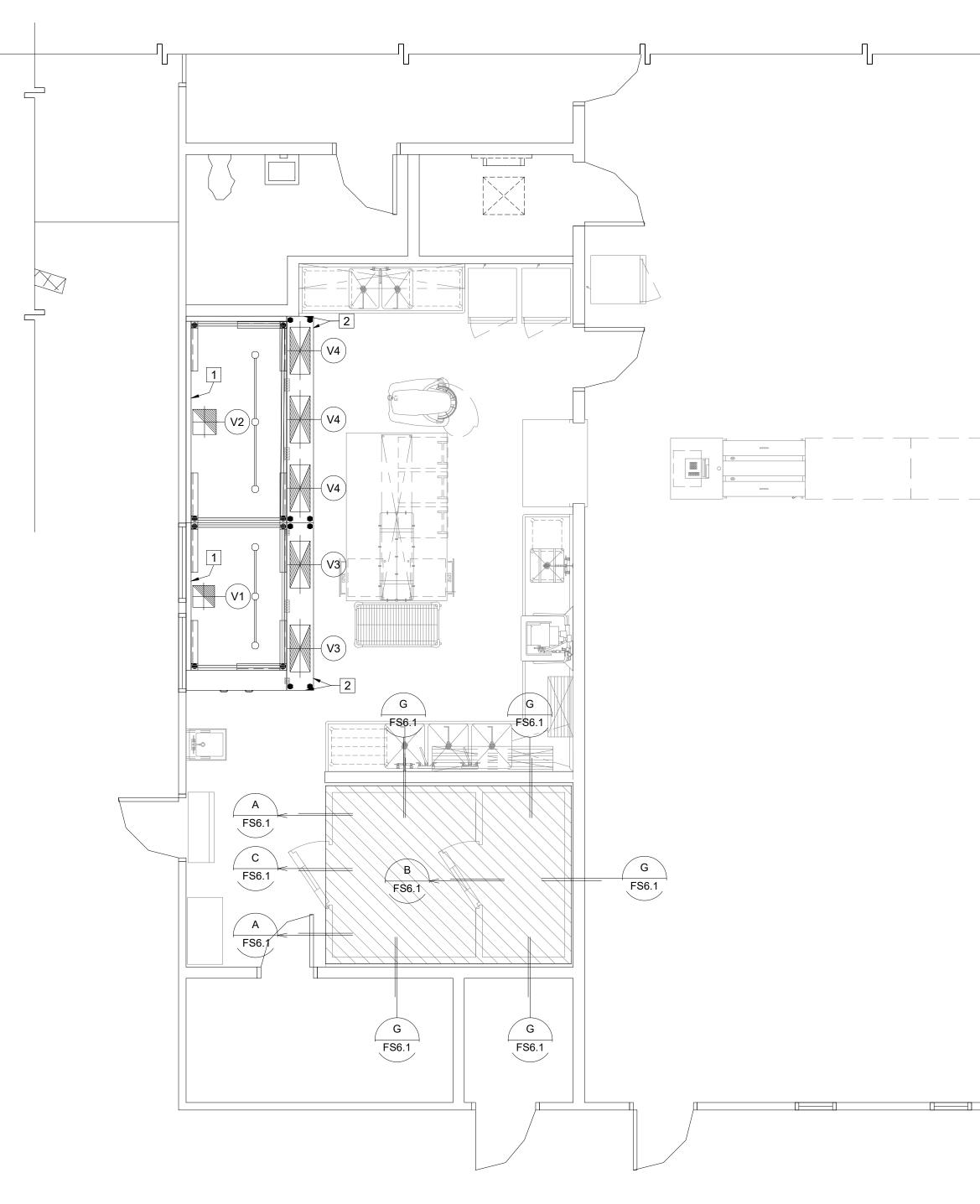
ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	NEMA	WATT	LOAD AMPS. DRAW	HP	OUTLET HEIGHT	REMARKS NOTE	E(S)
EH1	5	EXHAUST HOOD (ENERGY MANAGEMENT SYSTEM LIGHTS)	1EA.	120	1	X -	-	-	15	-	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.2 FOR ELECTRICAL CONNECTION)	
EH2	5	EXHAUST HOOD (FANS CONTROLLER EXHAUST)	1EA.	208	3	x -	-	-	10.2	3	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.2 FOR ELECTRICAL CONNECTION)	
EH3	5	EXHAUST HOOD (FANS CONTROLLER SUPPLY)	1EA.	208	3	X -	-	-	6.1	2	+86	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION (REFER TO FS5.2 FOR ELECTRICAL CONNECTION)	
EH4		TOUCH SCREEN USER INTERFACE MOUNT +48" AFF. RECESSED IN WALL	1EA.	-	-		-	-	-	-	-	CONNECT TO ENERGY MANAGEMENT SYSTEM IN UTILITY CABINET AT END OF HOOD ITEM 5 WITH CAT-5 CABLE (NO POWER REQUIRED AT THIS LOCATION)	



MANUFACTURE FOR HOOD LIGHTS AND FAN CONTROLS 7 E.C. TO INTERCONNECT POWER FROM HOOD CONTROL PANEL LOCATED ON WALL WITH EXHAUST DVC-1111 DEMAND CONTROL

FILE NO. 39-50	APP NO. 02-118041
DIV. OF THE APP. 02-11 REVIE	EWED FOR
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ C C-2 C C C-2 C C C C C C C C C C C C C C C C C C C	$\frac{ARC_{H/A}}{22525}$
KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	FOODSERVICE EQUIPMENT ELECTRICAL PLAN
CONSULTANT	AMD. DSERVICE DESIGN
PROJECT NO. 19-32-050 DATE 04/10/2020 DRAWN SLH	REVISIONS BY
CHECKED SLH SCALE CADFILE UPDATED	
SHEET NO.	

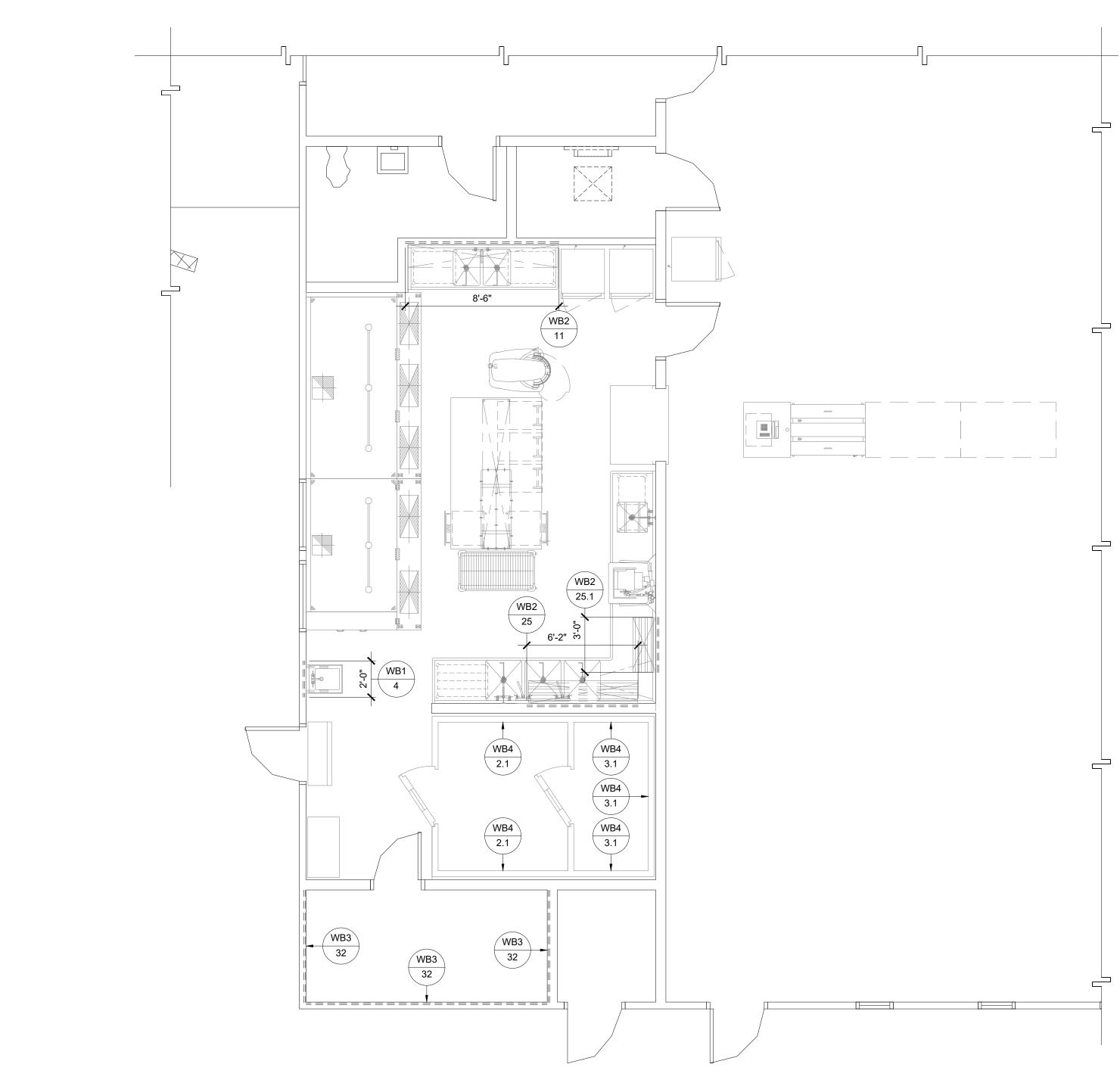
FS3.1

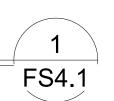


FOODSERVICE EQUIPMENT MECHANICAL PLAN

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

- VERTICAL FLUTES EVERY 6" AS SHOWN G/FS8.1
- 2 CLOSURE SKIRTING REFER 5/FS5.1





FOODSERVICE EQUIPMENT BLOCKING PLAN

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

	MECHANIC	AL LEGEND	
ABREV/SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
F.S.E.C	FOODSERVICE EQUIPMENT CONTRACTOR		ROUND DUCT CONNECTION
M.C.	MECHANICAL CONTRACTOR		
S.F.	STAINLESS STEEL FABRICATOR		CONCRETE CURB
G.C.	GENERAL CONTRACTOR		
E.C.	ELECTRICAL CONTRACTOR		CONCRETE DEPRESSION
CFM	CUBIC FEET PER MINUTE	WB#	
SP	STATIC PRESSURE	ITEM	WALL BACKING NO. / EQUIPMENT ITEM NO. REFER TO 2/FS4.2
1	SHEET NOTE SYMBOL	====	WALL BACKING
	(SEE SHEET NOTES FS4.1) EXHAUST DUCT CONNECTION		REMOTE COMPRESSOR (ON REFRIGERATION RACK)
	SUPPLY DUCT CONNECTION	$\langle A \rangle$	REFRIGERATION SYSTEM (SEE SCHEDULE ON SHEETS FS7.1 & FS7.2)
(V#)	VENTILATING SCHEDULE REFERENCE REFER TO FS4.2 FOR SCHEDULE	— — —	REFRIGERATION LINE (RUN FROM REFRIGERATION RACK)
	VENT TO ROOF		REMOTE REFRIGERATED BASE AND/OR EQUIPMENT

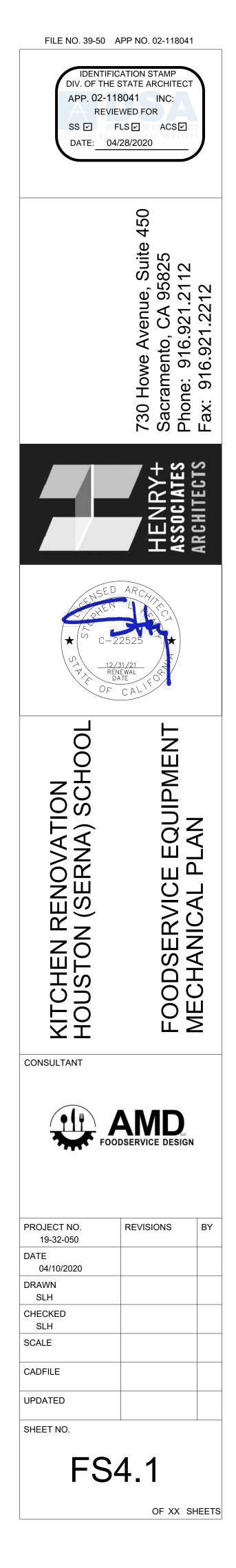
MECHANICAL & REFRIGERATION SHEET NOTES

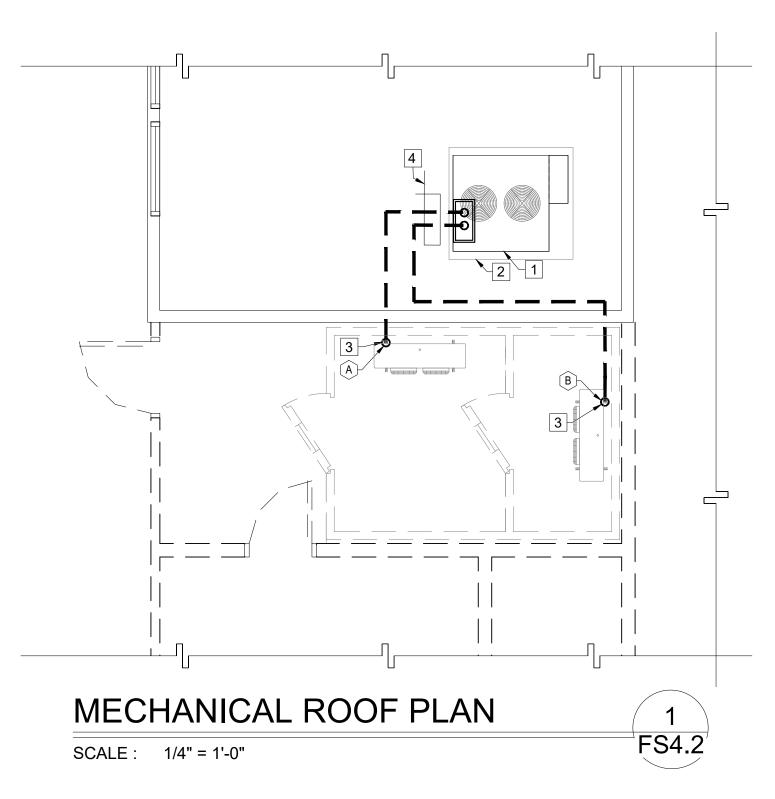
18 GA. STAINLESS STEEL WALL LINING PANELS (MINIMUM WIDTH TO BE 36") WITH 1" MINERAL WOOL BLANKET AND WIRE MESH BACKING OR CERAMIC FIBER BLANKET AND WIRE MESH BACKING SPACED OUT 1" ON NON-COMBUSTIBLE SPACERS WALL LINING TO MEET THE REQUIREMENTS OF NFPA-96 AND LOCAL CODES. WALL LINING SHALL BE FABRICATED WITH

MECHANICAL LEGEND

2

FS4.1





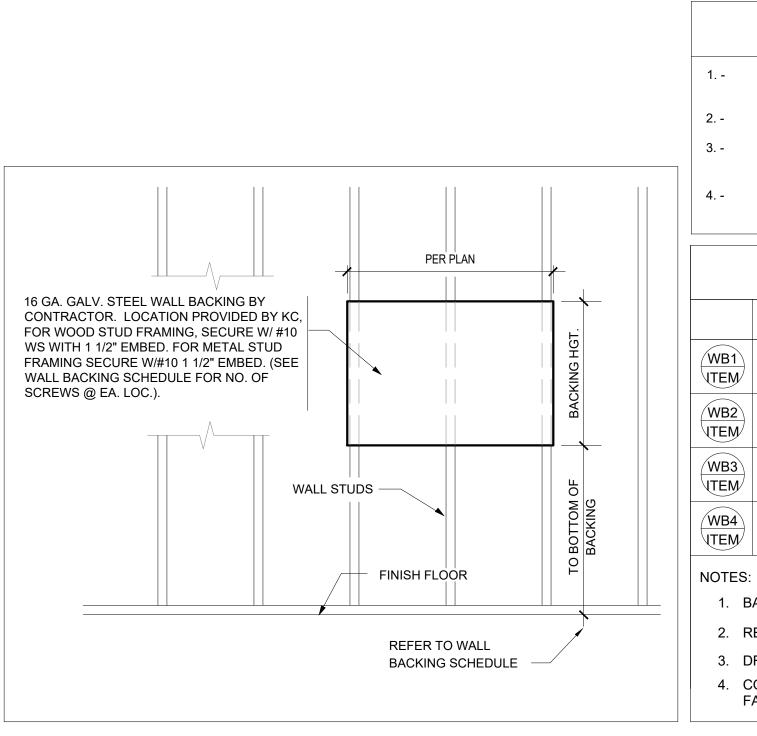
VENTILATING REQUIREMENTS

DUCT	ITEM		ITEM		F	RISER SIZE			OUTLET	ET REMARKS					
NO.	NO.	DESCRIPTION	QTY.	ROUND	WIDTH	LENG.	CFM	S.PWC"	HEIGHT						
V1	5	EXHAUST DUCT EXHAUST HOOD #1	1EA.		13"	13"	1760	-0.642"	+108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO 1/FS5.1 FOR EXHAUST HOOD DETAILS					
V2	5	EXHAUST DUCT EXHAUST HOOD #2	1EA.		14"	15"	2250	-0.716"	+108"						
(V3)	5	SUPPLY DUCT	2EA.		12"	28"	704	0.187"	+108"						
	U	EXHAUST HOOD #1	/		12"	28"	704	0.187"	+108"						
					12"	28"	600	0.139"	+108"						
V4	5	SUPPLY DUCT EXHAUST HOOD #2	3EA.		12"	28"	600	0.139"	+108"						
					12"	28"	600	0.139"	+108"						

COOKING EXHAUST HOOD NOTES

1. - EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.

- 2. MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDUE AIR TURBULENCE IN THE WORKING AREAS.
- 3. COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.
- 4. MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).
- 5. LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.



WALL BACKING DETAIL

SCALE : NONE

MECHANICAL & REFRIGERATION SHEET NOTES
1 REMOTE REFRIGERATION SYSTEM REFER TO FS7.1 EQUIPMENT LOCATED ON BUILDING ROOF
2 REMOTE REFRIGERATION EQUIPMENT PLATFORM REFER TO E/FS7.1
3 REFRIGERATION LINES STUB-DOWN FROM ABOVE, PENETRATE CEILING OF WALK-IN TO EVAP COIL SEE DETAIL D/FS7.2
4 REFRIGERATION LINES RUN ABOVE CEILING LINE FROM REFRIGERATION RACK TO DROP-DOWN POINT ABOVE WALK-IN R (REFRIG. LINE RUN ROUTES SHOWN ARE SCHEMATIC ONLY) REFRIGERATION LINE ROUTES WILL BE FIELD VERIFIED WITH

- 6. IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F...
- 7. CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
- 8. PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER U.M.C. IS REQUIRED
- 9. EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C 2013, NFPA-96, U.L, N.S.F, AND ALL LOCAL CODES AN ORDINANCES.

WALL BACKING NOTES

1. - WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.

ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR

FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.

WALL BACKING AS SHOWN IS MINIMUM, EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY

WALL BACKING SCHEDULE

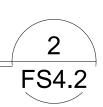
APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
HAND SINK	+12" AFF	24" HIGH	4	E/FS8.2
WALL SHELF	+48" AFF	12" HIGH	4	H/FS8.1
DRY STO. SHELVING	+57"AFF	12" HIGH	2	F/FS8.2
COLD STO. SHELVING	+16"AFF +57"AFF	12" HIGH	2 PER POST BRACKET	G/FS8.2

1. BACKING TO BE 16 GA. G.I. or C.R.S.

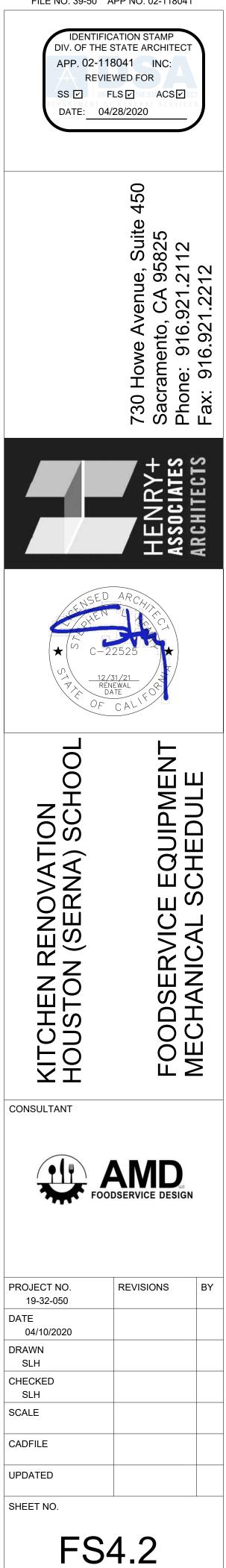
2. REFER TO 2/FS4.1 FOR WALL BACKING LOCATIONS

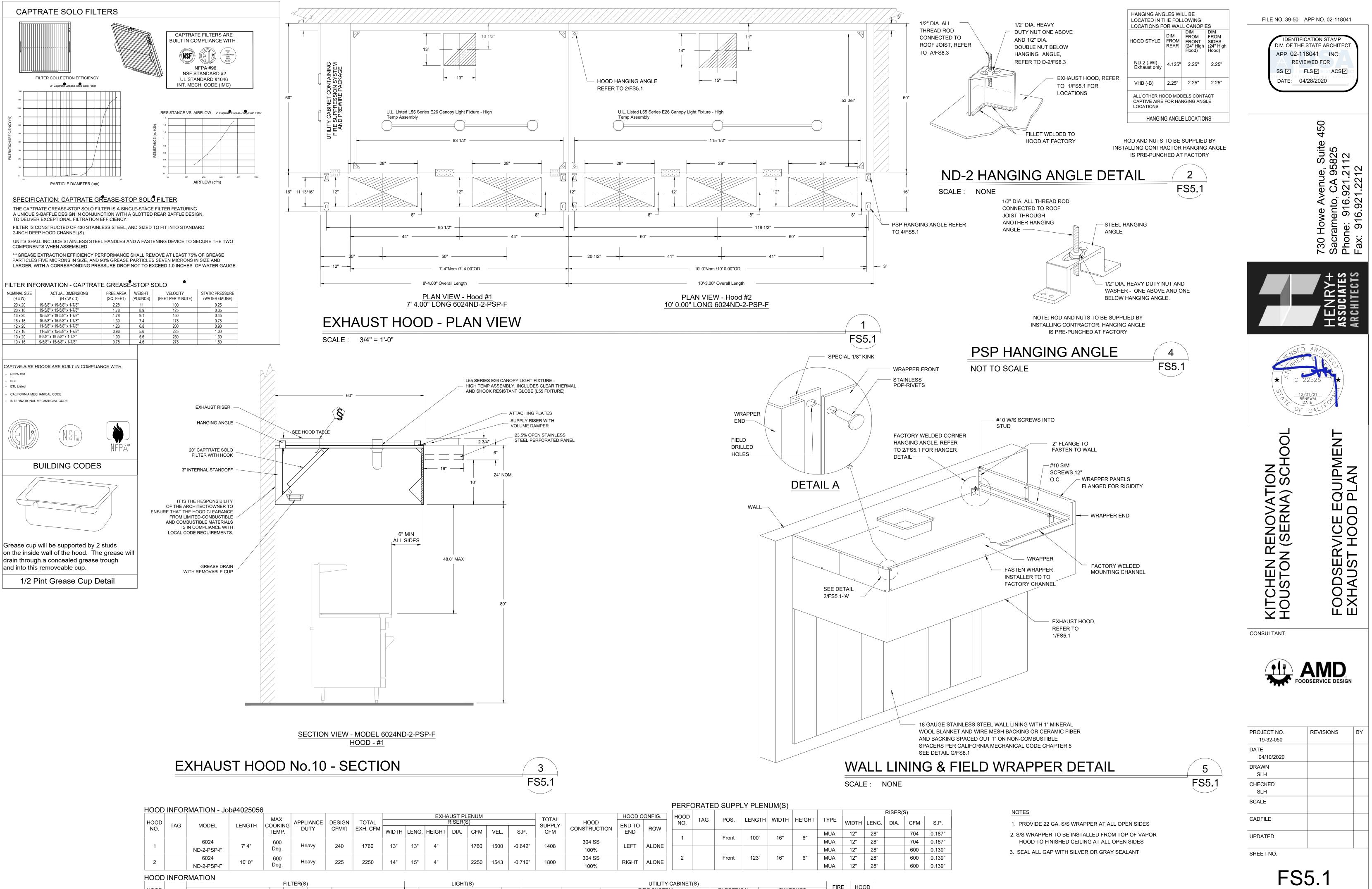
3. DRY STO. SHELVING, FASTEN SHELVING TO BACKING WITH #14 SMS.

4. COLD STO. SHELVING, 18GA G.I. STRAP FOAMED IN WALL BY MANUFACTURER. FASTEN SHELVING TO STRAP WITH #14 SMS.



		OODSERVICE GERATION LEGEND
	ABREV./SYMB.	DESCRIPTION
	== ⊐ 0	CONDUIT FOR REFRIGERATION LINES (RUN UNDER FLOOR)
		REMOTE COMPRESSOR (ON REFRIGERATION RACK)
	$\langle \mathbf{A} \rangle$	REFRIGERATION SYSTEM (SEE SCHEDULE ON SHEETS FS7.01 & FS7.02)
	— — —	REFRIGERATION LINE (RUN FROM REFRIGERATION RACK)
]		REMOTE REFRIGERATED BASE AND/OR EQUIPMENT
-	S/C	SELF-CONTAINED REFRIGERATED BASE AND/OR EQUIPMENT
	þ	ACCESS PULL-BOX FOR REFRIG. LINES (IN THE WALL)
	1	KEYNOTE SYMBOL (SEE SHEET NOTES FS4.02)

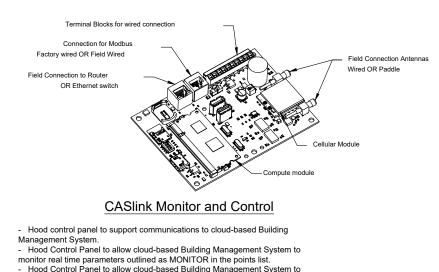




	RMATION - Jo	0#4020000							FXHA	UST PLE	NUM						CONFIG.	HOOD								1	RISER(S)	<u> </u>
HOOD TAG	MODEL	LENGTH	MAX.			TOTAL				RISER(S)				- TOTAL - SUPPLY	HOOD			NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG.	DIA. CFM	S.P.
NO.	MODEL	LENGTH	TEMP.	DUTY	CFM/ft	EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.	CFM	CONSTRUCTION		ROW							MUA	12"	28"	704	0.187"
	6024	71.41	600	Heavy	0.40	4700	4.0"	4.0"	411		4700	4500	0.040	4.400	304 SS			1		Front	100"	16"	6"	MUA	12"	28"	704	0.187"
1	ND-2-PSP-F	7' 4"	Deg.	пеачу	240	1760	13"	13"	4"		1760	1500	-0.642"	1408	100%	LEFT	ALONE							MUA	12"	28"	600	0.139"
2	6024	10' 0"	600	Heavy	225	2250	14"	15"	4"		2250	1543	-0.716"	1800	304 SS	RIGHT	ALONE	2		Front	123"	16"	6"	MUA	12"	28"	600	
2	ND-2-PSP-F	10 0	Deg.	licary	220	2200			–		2200	1040	-0.710	1000	100%	KIOITI	ALONE							MUA	12"	28"	600	0.139"
OOD INFOR	RMATION																											
			FI	LTER(S)						LIGHT(S	S)						UTILITY	CABINET	(S)					— FIRI	E HOO	חר		
IOOD TAG												W				F	IRE SYSTE	EM		ELECTRI	CAL	SWITC	CHES					
NO.	TYI	PE	QTY.	IEIGHT LENG		ENCY @ 7 M	ICRONS	QTY.		TYPE			ARD LO	CATION	SIZE	TYPE		SIZE		MODEL	#	QUAN	ITITY	PIPIN				
1	Captrate S	Solo Filter	5	20" 16"	85%	% See Filter S	Spec.	3	L55	Series E	26	١	10	Left	12"x60"x24" A	nsul R102		3.0/3.0						YE	S 56 LB			
2	Captrate S	Solo Filter	7	20" 16"	85%	6 See Filter S	Spec.	3	L55	i Series E	26	٩	10											YES	S 56 LB			

Q		
INI	%	

NO.	TAG	PACKAGE #	LOCATION	SWITCH	IES	OPTION	FANS CONTROLLED						
			2007.000	LOCATION	QUANTITY		TYPE	ф	H.P.	VOLT	FLA		
			Litility Cabinat Laft	08 - Ship Loose w/	1 Light		Exhaust	3	3.000	208	10.2		
1		DCV-1111	Utility Cabinet Left	Prewire	1 Fan	Smart Controls DCV	Supply	3	2.000	208	6.1		



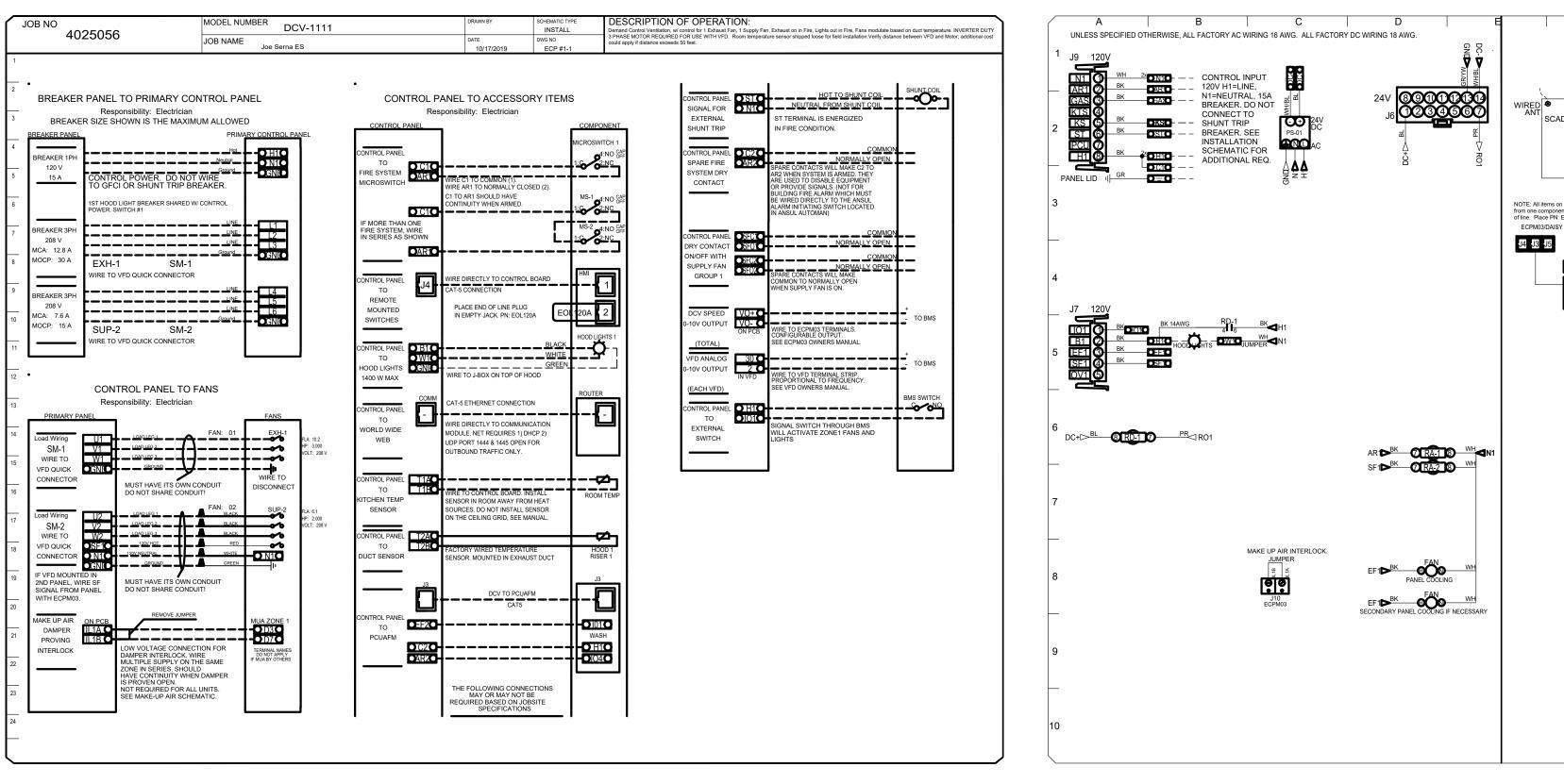
 Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
 Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building

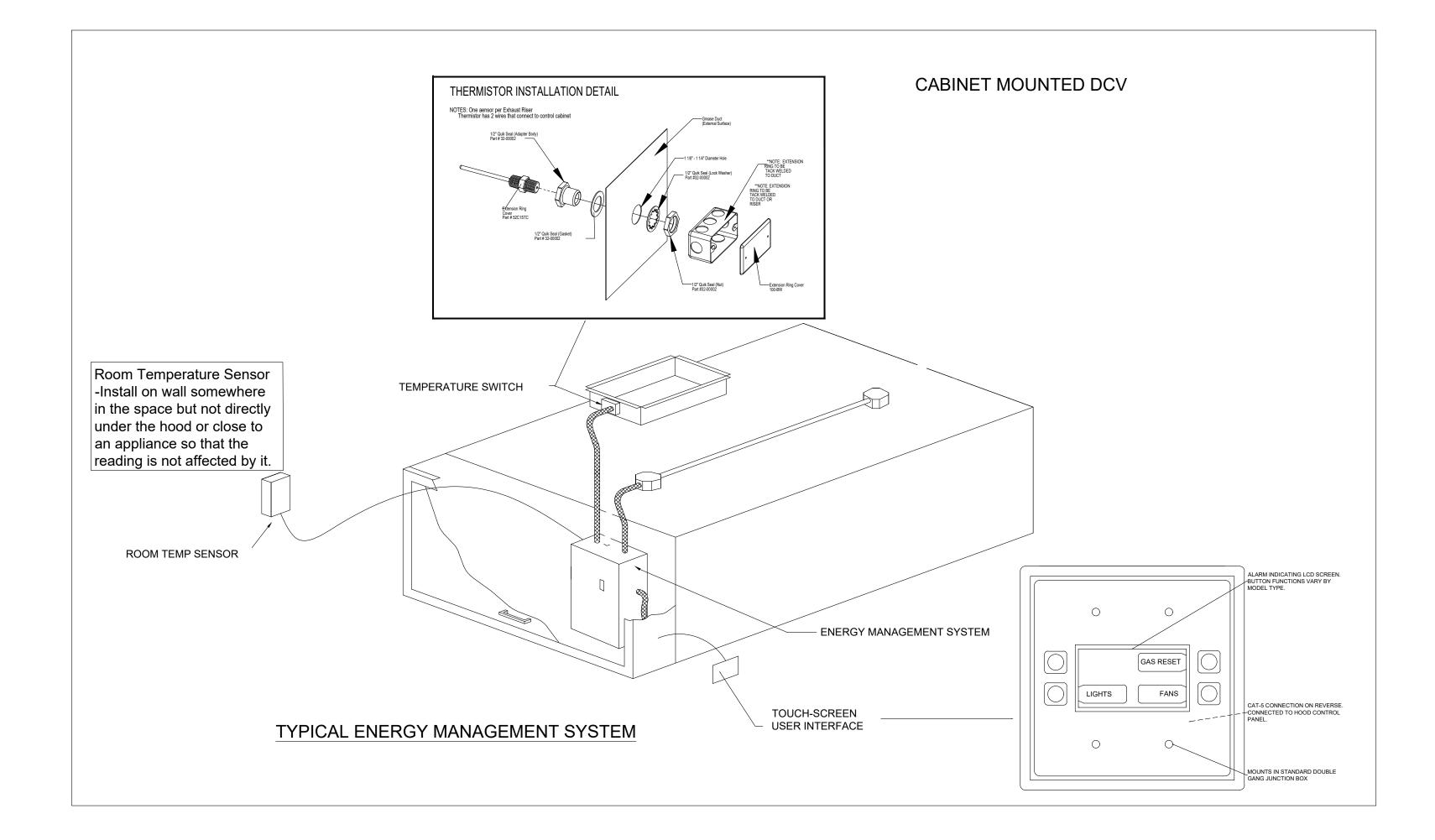
MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

Management.

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA DIscharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL





All fans must have inverter duty motors, and all conduits from the load side of the VFDs must be seperate and dedicated.

FACTORY WIRING SCHEMATIC CIRCUIT BOARDS MOTOR POWER CIRCUIT 'E: IF VFD HAS 1PH 240V INPUT, USE L1 & L2 ONLY FD HAS 1PH 120V INPUT, USE L1 & N ONLY. ECPM03 DCV Rev. 2.11.00 FLA: 10.2 HP:3.000 P100:01 P101:N/A P102:0.0 P103: 80.0 P103: 80.0 P107: 00 P107: 00 P107: 00 P107: 01 P167: 60.0 P194: 225 P410: 11 HTR:SUP-2 FLA: 6.1 HP:2.000 P107: 00 P107 HMI Rev. 2.11.00 SINCE SI
 Invit
 Peck. 2.11,00

 RA:x
 24 UDC

 T20 VAC
 RELAY

 NO 5113
 NO 5115

 NC 2111
 NO 5115

 NO 6113
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 NO 700
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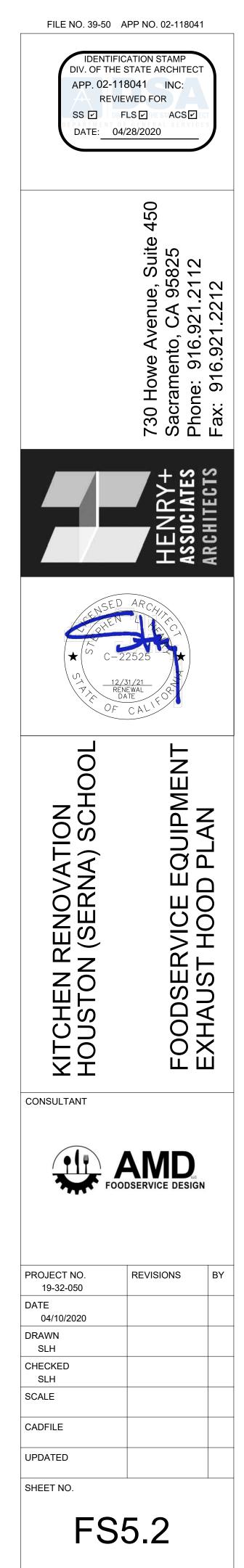
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 NO 700

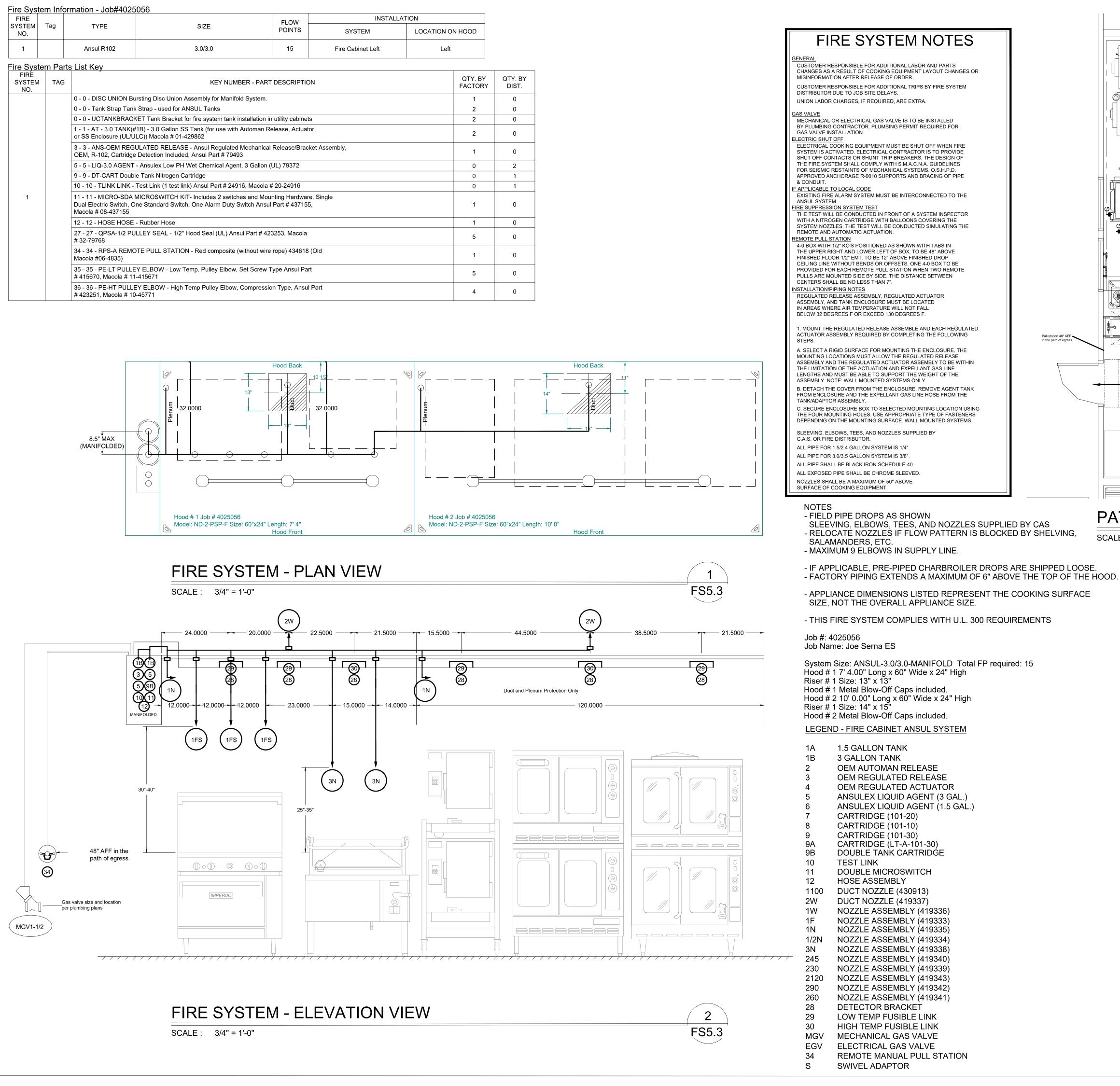
 NO 700
 N CADA ILCOSHD - -+ ODEST - ODEST DEST CAT-5 J1 NOTE: All items on ECPM03 J3 line to be daisy chained from one component to the next, with EOL120A at end of line. Place PN: EOL120A in empty RJ45 port. ECPM03/DAISY CHAIN 24VDC Light Relay PN: 34.110.0188.0 Duct Thermostat PN: A/CP-PO-T4"-EXPL SCADA SCADA Module PN: LEGEND FACTORY WIRING BK-BLACK WY-YELLOW BR-BROWN PR-PURPLE OR-ORANGE RD-RED WH-WHTE GR-GREEN ORBL-ORBLSTRIPE BURD BURD STRIPE RDIGN-RDIGN STRIPE WHEL-WHELSTRIPE DRY CONTACTS (SHOWN DE-ENERGIZED) ON/OFF WITH FIRE 14 AWG RA-2-1 JOB NAME VING TITLE CV-1111 14 AWG RA-2-2 mand Control Ventilatio trol for 1 Exhaust Fan, n, Exhaust Fan, n, Exhausto ni Fire, L Fire, Fans modulate ba ict temperature. INVER PHASE MOTOR REQL SE WITH VFD. Room mperature sensor ship or field installation. Verif etween VFD and Motor ost could apply if distan
 TYPE
 DATE

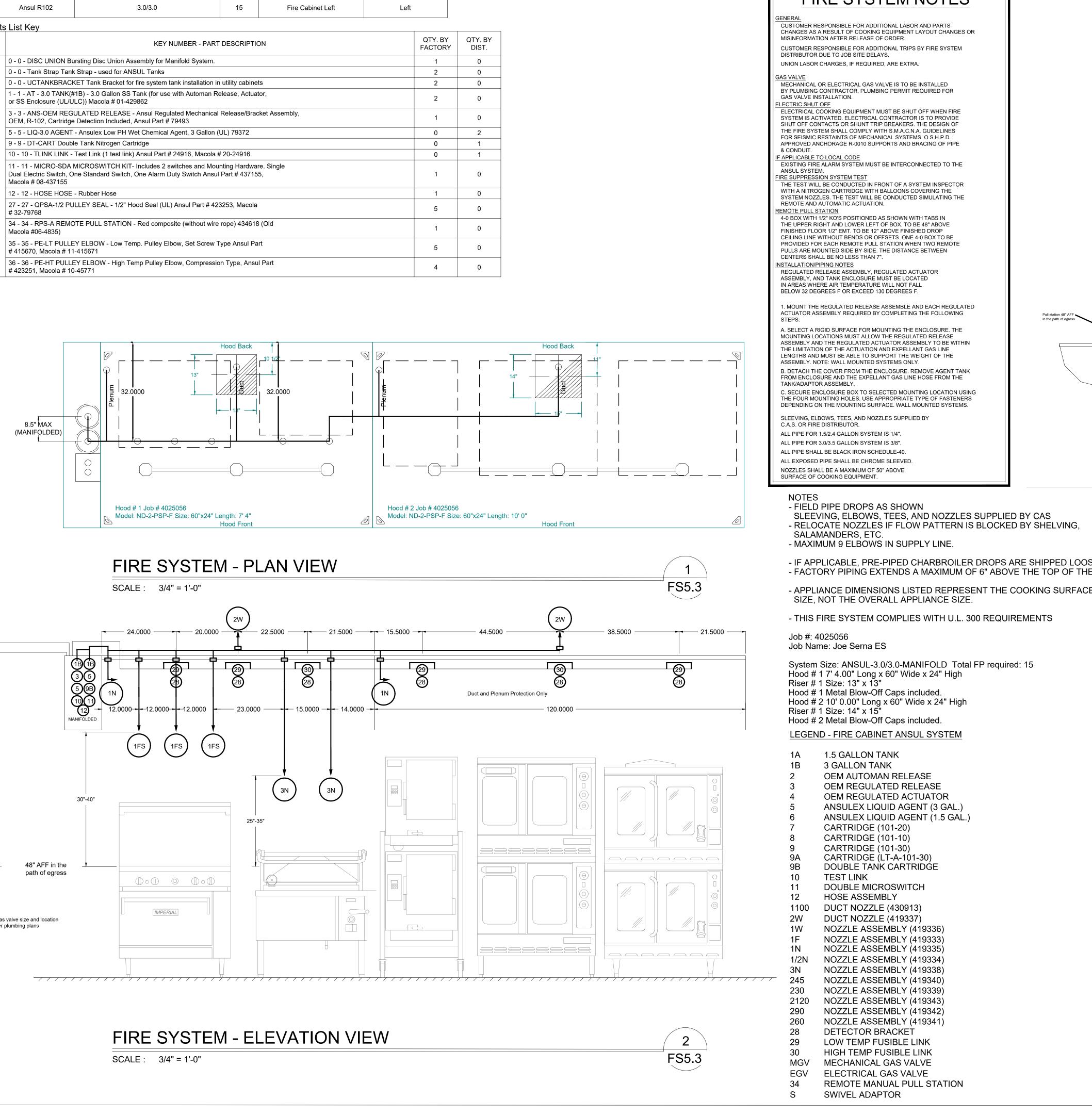
 FACTORY
 10/17/2019

 DWG NO
 ECP #1-2
 SC-20 x 18 x 8.62 BOX

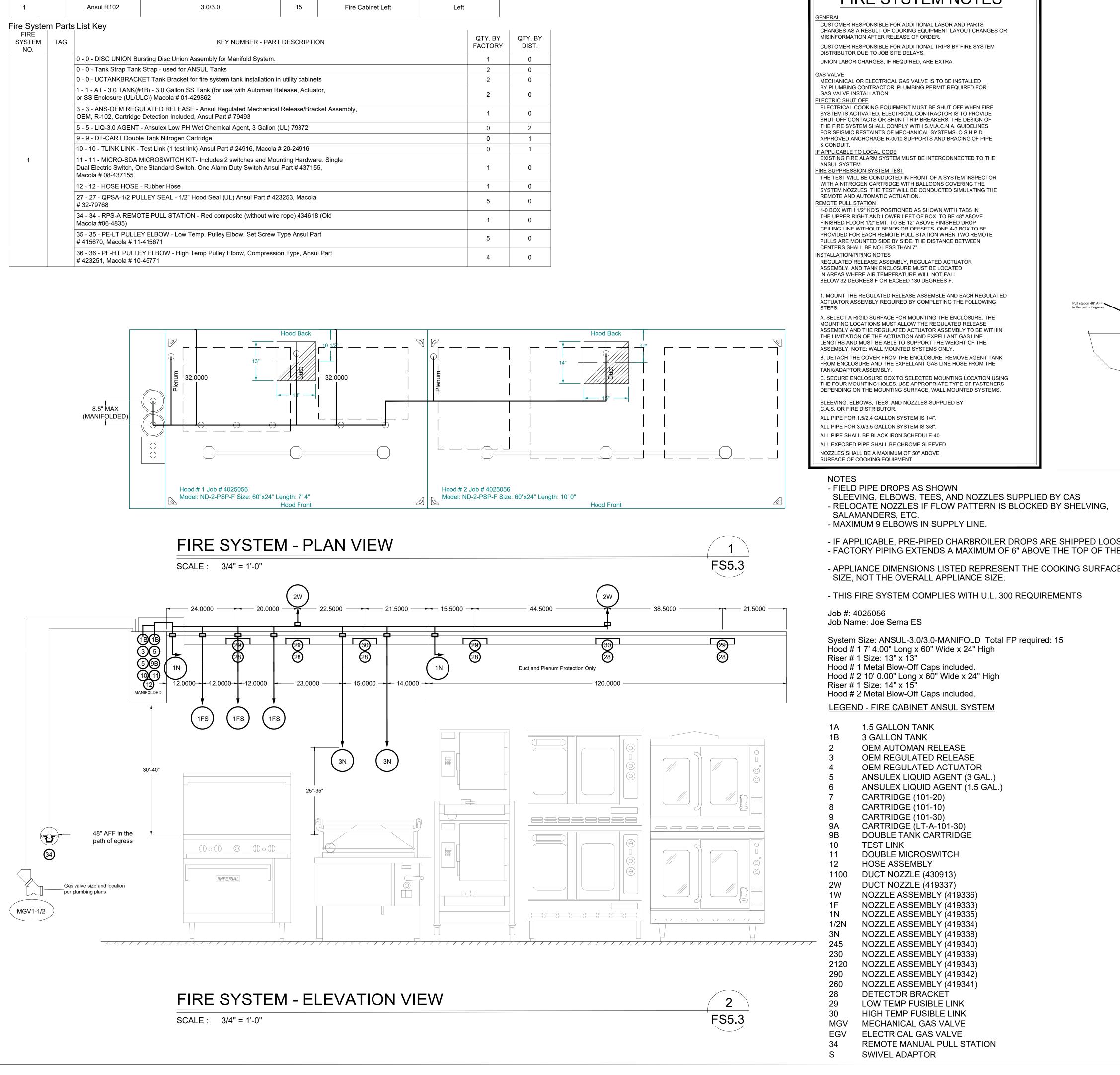
These products and others are available for demonstration at the Northern CA display center --For more information or questions Contact--Captive Aire Systems 1110 Burnett Ave, Suite G, Concord, CA 94520 Phone: (925)962-1999, Fax (925)566-8565 Email reg92@captiveaire.com

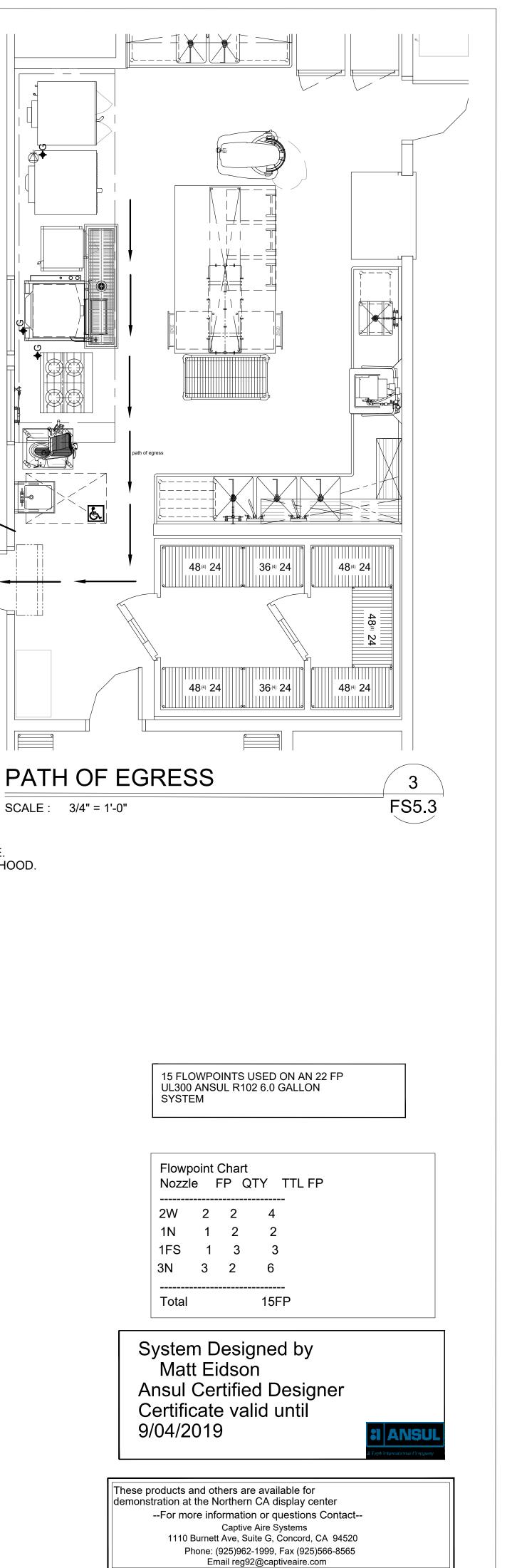




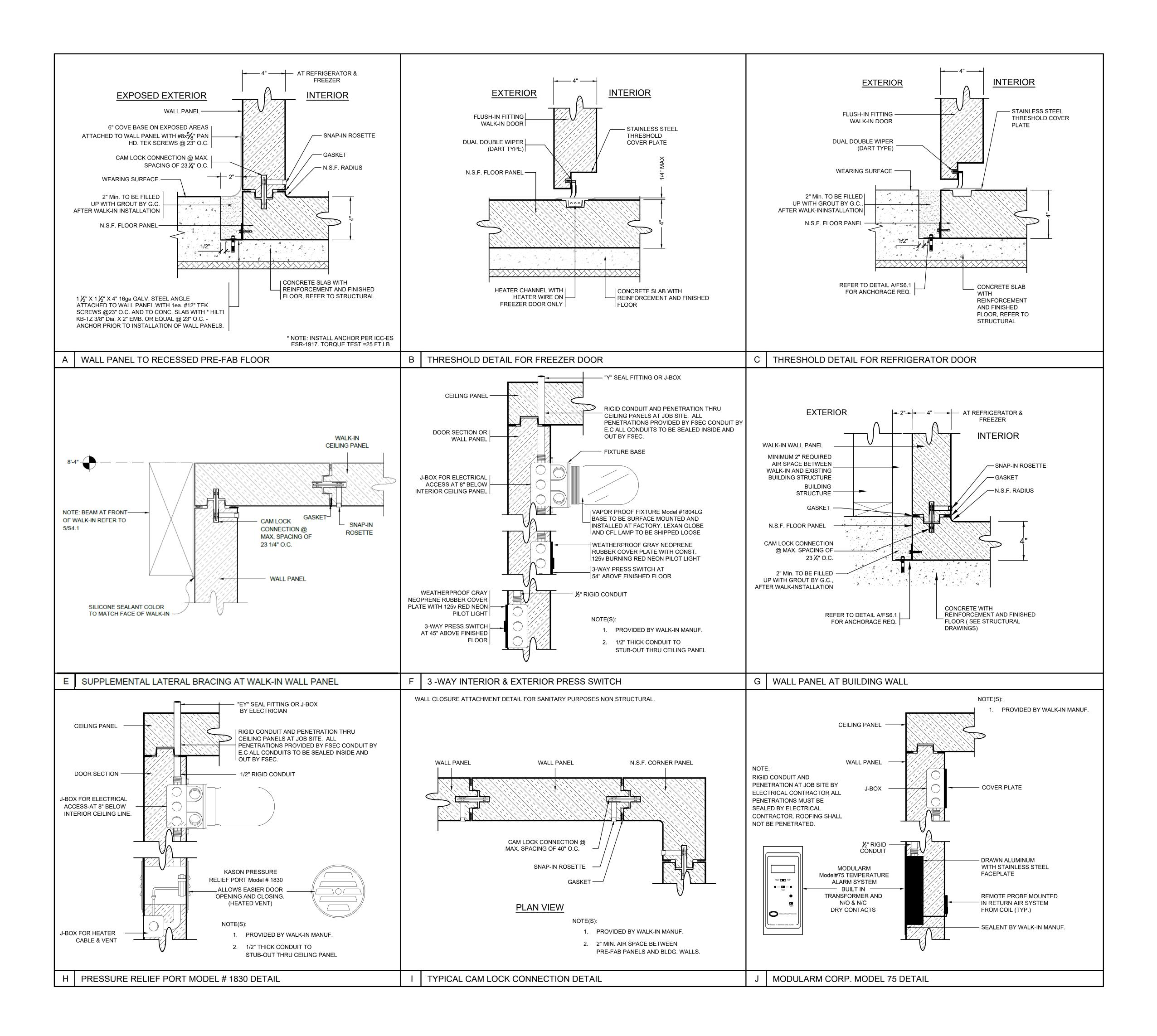


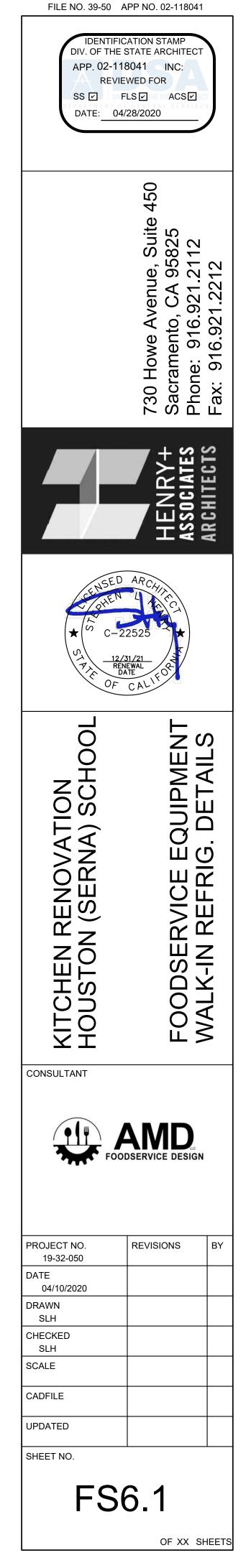


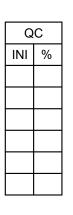


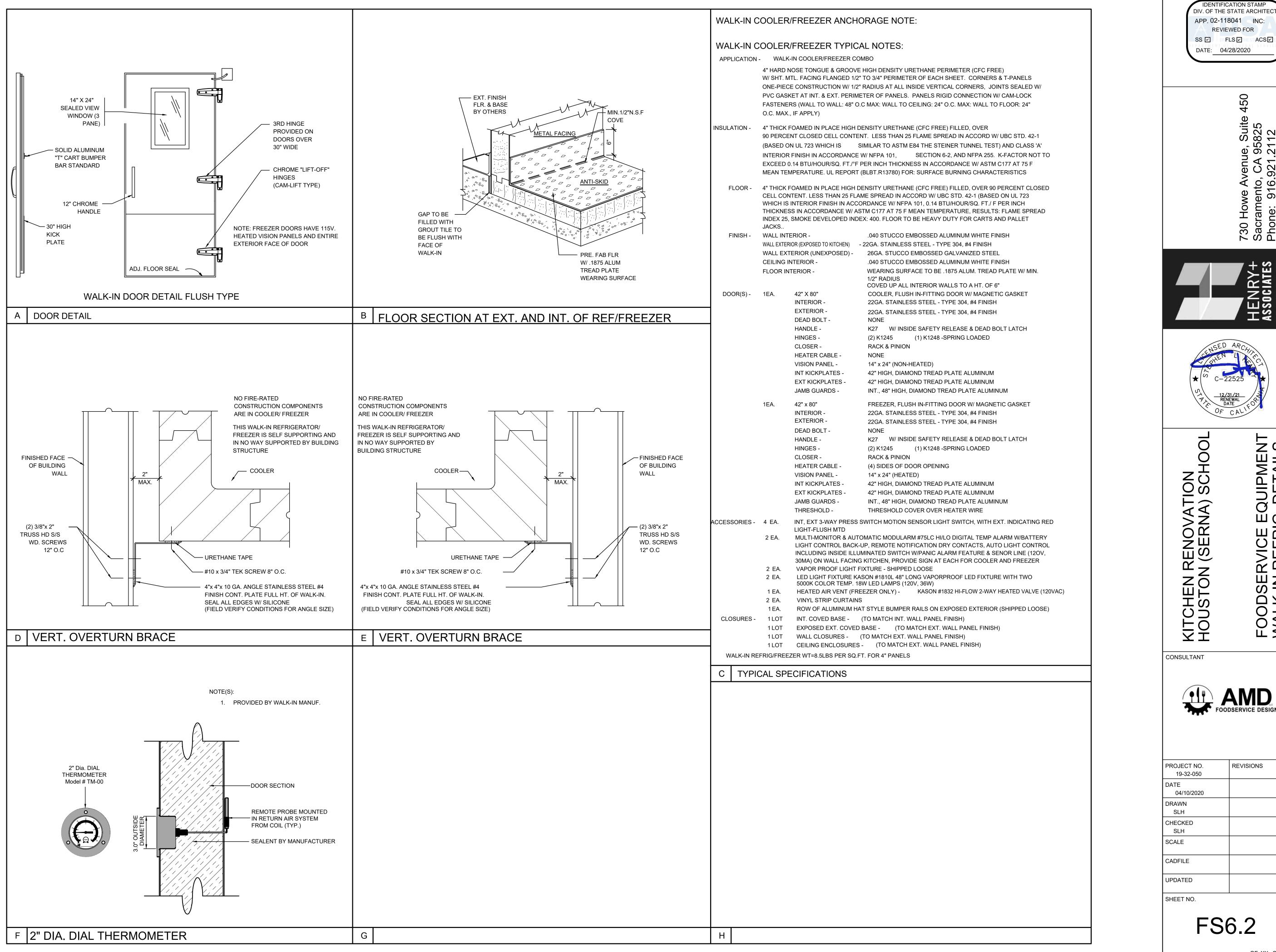


DIV. OF THE S APP. 02-118 REVIEW SS I F	ATION STAMP STATE ARCHITECT 3041 INC: WED FOR LS ACS 28/2020
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
	$\frac{AR_{CH}}{2525}$
KITCHEN RENOVATION HOUSTON (SERNA) SCHOOL	FOODSERVICE EXHAUST HOOD FIRE SYSTEM
FOOL	SERVICE DESIGN
PROJECT NO. 19-32-050 DATE 04/10/2020 DRAWN SLH	REVISIONS BY
CHECKED SLH SCALE CADFILE UPDATED SHEET NO.	
FS	5.3 OF XX SHEETS







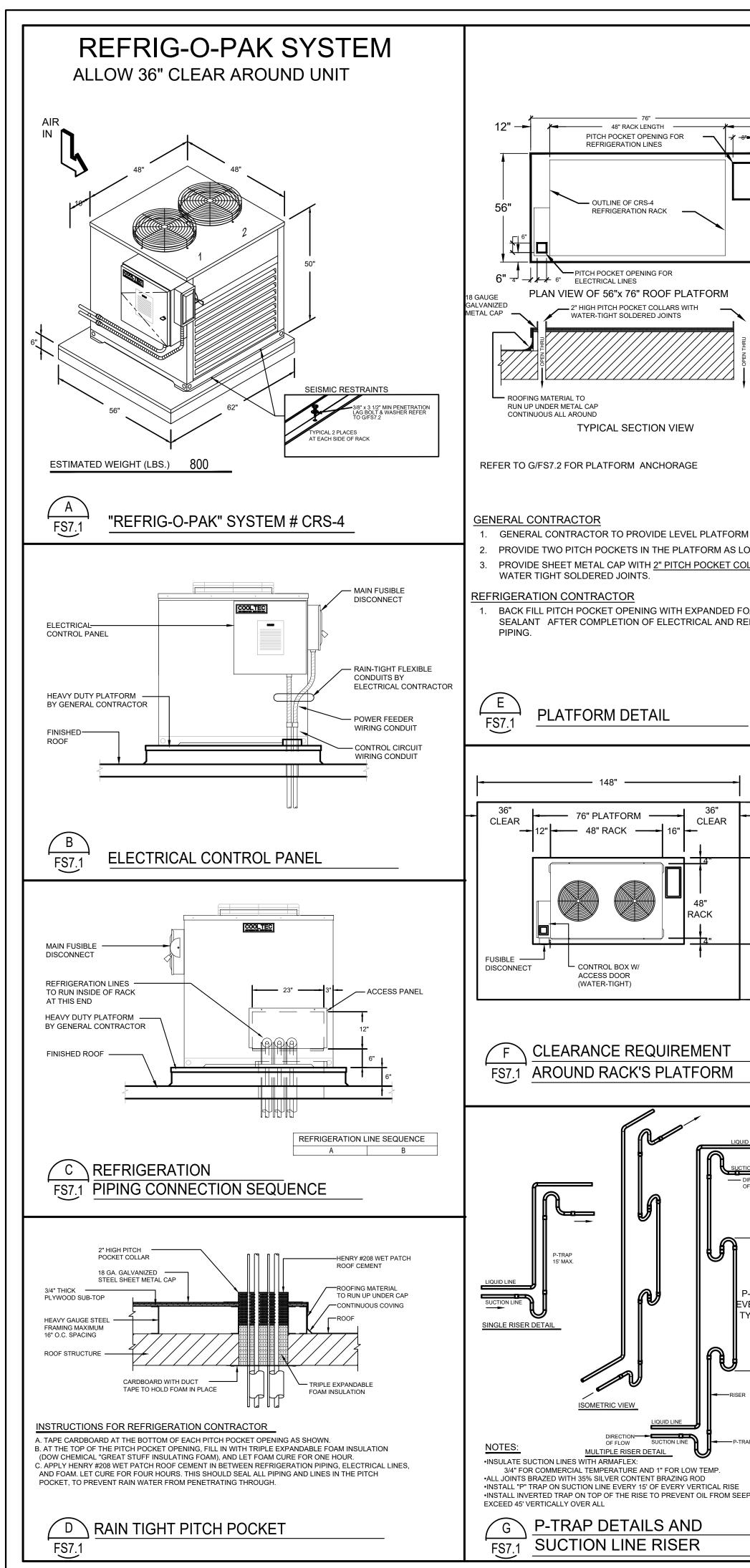


Suite 5825 12 570 $\overline{0} \circ \circ \triangleleft - \Diamond$ **N** (ດ _T v o ò . O O hone: ax: 910 0 õ **м** Ω Ц Ц L S C UIPMEN⁻DETAILS Q , FOODSERVICE E WALK-IN REFRIG FOODSERVICE DESIGN REVISIONS

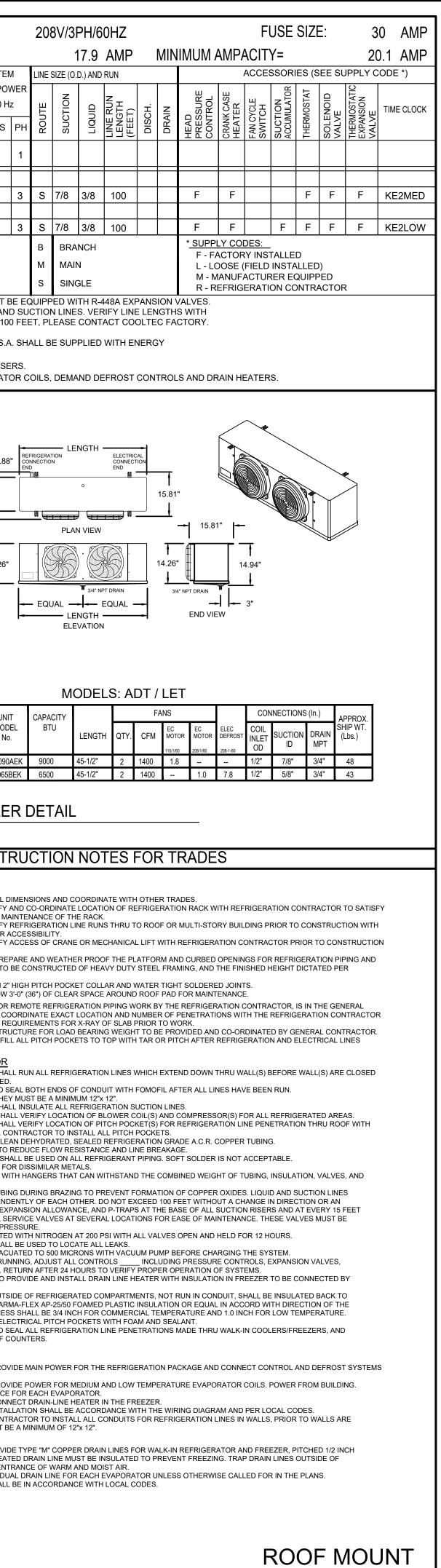
FILE NO. 39-50 APP NO. 02-118041

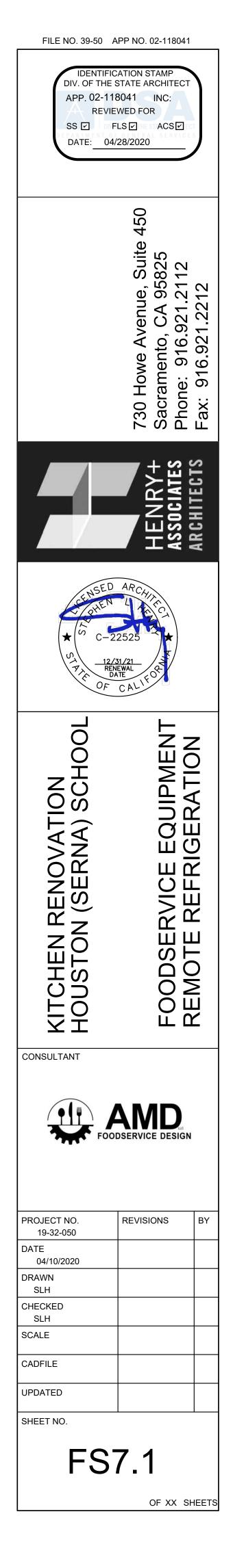
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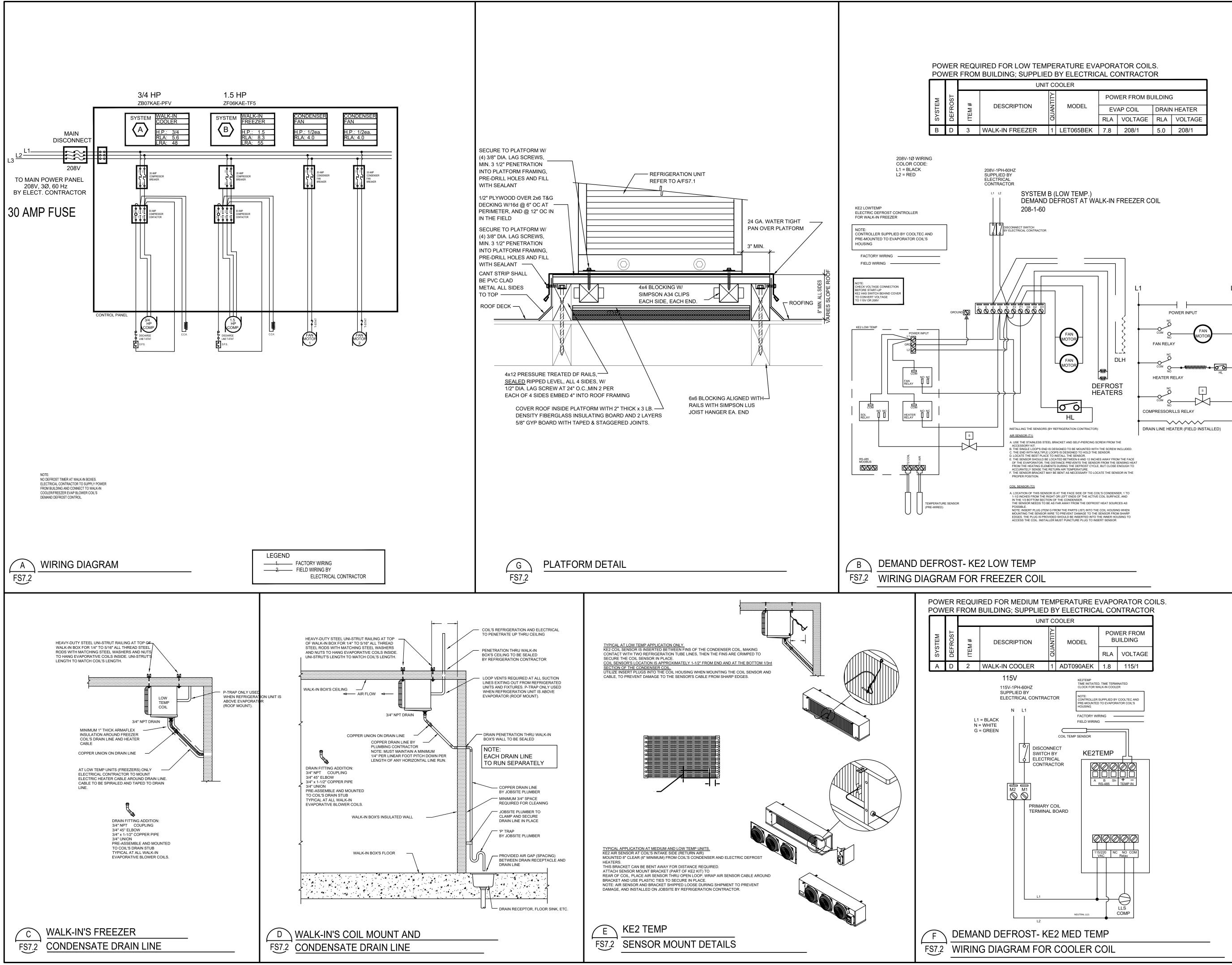
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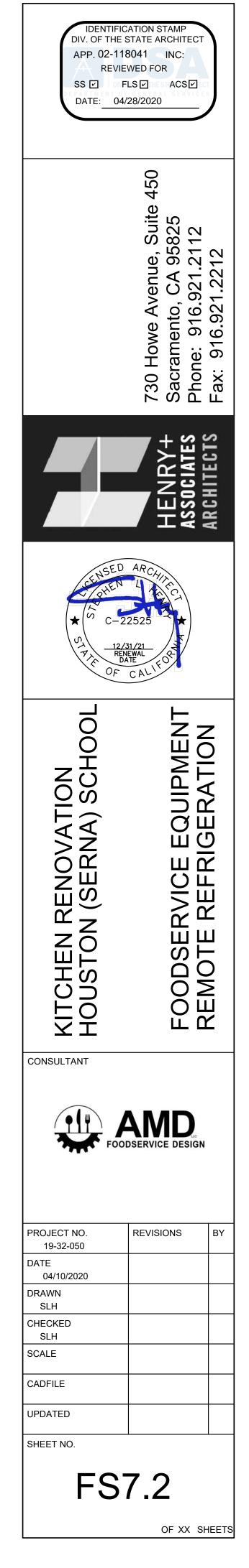


	СС	00	LTEC ENGINE	ERIN											AMBIEN TEMPERAT 95°F	URE	CO	WER)AD=
	_		FIXTURES	TEMP (F)	REFRIGERANT R-	REFRIGERANT LBS IN SYSTEM		COMPRES				ROST		≿		T COO RATII		@ 60 H	łz	-	SYSTE OTAL PO
/ _►16"	SYSTEM	ITEM #	DESCRIPTION	FIXT. SST.	FRIGE R-	EFRIGE S IN SYS	MODEL		RATIN(0 60 Hz	<u>z</u>	MBH. (95°F)	DEFR	ITEM #	QUANTITY	MODEL	1ØF			EATEF	`	208V, 60 H
er"			CONDENSER FAN	E SS	R	LB 81		RLA		PH			II.	۵		RLA	V	FLA	V	PH	AMPS
21"	CRS-	-4	MOTORS_2_					1/2 4.0	208	1											8.0
	A	2	WALK-IN COOLER	35 25	448A	16	ZB07KAE-PFV	3/4 5.6	208	3	9.32	D	2A	1	ADT090AEK	1.8	115				5.6
	В	3	WALK-IN FREEZER	-10 -20	448A	16	ZF06K4E-TF5	1.5 8.3			6.99	D E	3A ELEC	1 TRI	LET065BEK C (TIMED)	1.0	208	7.8	208	1	8.3
	C	(TFN				RS-4		Ο.		G H O D	GRAV HOT (OFF (/ITY GAS CYC	(TIMED) (TIMED) LE (TEMP.) DEFROST (KE2)						
	U					NOT	E: - REFRIGER	ATION PIPE	SIZES A	ARE BA	ASED ON	N A I	ΜΑΧΙΜΙ	JM	ANY BASES/COI LINE RUN UP TC INSTALLATIONS	100 EC	QUIVA	LENT	FEET F	OR L	IQUID AN
6"min.			NDENSING UNIT				- "COMPRES - EFFECTIVE	SOR MOTOR	R PROT . 2009,	ECTEI ALL W) UNDEI ALK-IN (r Pf Coc	RIMARY DLER AN	' SII ND I	NGLE PHASE PR FREEZER EVAP(OTECT DRATIV	ION" E CO	ILS INS	TALLE	D IN ⁻	THE U.S.A
		33	SZ FILE SA32027				- ELECTRO-F	IN COATED	CONDE	NSER	S AGAIN	IST	SALT A	IR (GY INDEPENDEN CONTAMINATION IILDING AND COI	AND C	ORR	OSION	FOR A	LL C	ONDENSE
I							- ELECTRICA	LCONTRAC		J 30F	FLIFO			во			FOW	EKTO	WALK-		
			DWER REQUIRED FOR W DWER FROM BUILDING; \$							ol ai	ND TO	DF	RAIN I	HE.	ATERS.						<u> </u>
		Г		UNI	тсоо	LER															12.06"
1 AT CODE HEIGHT.			WEISSCRI	PTION	QUANTITY	MOD														2.97"	<u> </u>
DCATED. LLAR AND WITH			W S # DESCRII		QUA			OLTAGE	RLA		TAGE	RL			AGE						14.26"
			A D 2 WALK-IN CO B D 3 WALK-IN FR			DT090		115/1 208/1	 5.0	20	- 8/1	1. 12	_	115 208							<u> </u>
DAM AND ROOF		NC	DTE: PROVIDE SEPARAT	E POWE	R SOL	JRCE	FOR EACH E	VAPORA	TOR.												
		Ļ	POWER FROM BUIL	DING.																	
-																				SYST	
																				A	ADT090
																				В	LET065
	ļ	FS7		TION															UNI	ГС	OOLE
36" CLEAR																	FS7				
						SPE	ECIFICATIO	DN								-					ONST
56" PLATFORM 128"	THE		RIGERATION PACKAGE SHALL BE PRE	-ENGINEERED	AND FA		-))-PAK",	AS MANU	FAC [.]	TURED B	BY C	OOLTEC		A. CON		ORS SH	ALL VE	<u>R</u> ERIFY ALL E TO VERIFY
	E-M	IAIL AD	RATION CORP., 1250 E. FRANKLIN AVE DRESS: sales@cooltecrefrigeration.com CTOR SHALL FURNISH AND INSTALL, V					、		AIR CO	OI FD RF	мот	F				C. GEN REFR	IERAL C	ONTRAC	TOR T	NTS AND MA TO VERIFY
<u> </u>	REF ENC	RIGEF	RATION PACKAGE, MODEL <u>CRS-4</u> , WI IRE. THE FRAME, ENCLOSURE, AND P. RE FRAME SHALL BE PRE-ASSEMBLEI	TH CONTROL ANELS SHALL	PANEL, BE FABI	RICATED	208 vol rs ,f røgarsa ,†) of galvanized st	EEL.	SHALL BE	E HOUS	ED IN A V			OTE	CTED		(IF RE E. GEN	EQUIREE IERAL C)). ONTRAC	TOR	TO VERIFY SHALL PRE OF PAD TO
36" CLEAR		. <u>Ref</u>	SER FAN MOTORS SHALL BE MOUNTE FRIGERATION UNITS AIR-COOLED CONDENSING UNITS SH									WITI	4				LOCA PRO	L CODE	S. IEET ME	TAL C	AP WITH 2'
+		H B.	HIGH-LOW PRESSURE CONTROL, LIQU ALL COMPRESSOR UNITS SHALL BE N SUMMARY SHEET. REFRIGERANT R-44	IID LINE DRIEF	R, SIGHT (ASSEM	GLASS, BLED TO	HEAD PRESSURE CO O OPERATE WITH THI	ONTROL, TIME E REFRIGERAI	CLOCKS	AND P	UMP DOW	/N SO GINE	OLENOID ERING)S.			CONT	RACTO	R'S SCO	OP OF	UIRED FOR WORK. CONDLORD RI
	2	Т	THE CONDENSER SHALL BE SECTION HE CONDENSER SHALL BE ELECTRO- E-PIPING	, -	,			,		ESIGNE	ED FOR 20)°FT[D.				. ANY J J. GEN	ATTACH	MENT T ONTRAC	O BUIL	LDING STRI TO BACKFIL
		В	ALL REFRIGERANT LINES SHALL BE E E INSULATED WITH ARMAFLEX (1" TH ALL TUBING SHALL BE SECURELY SU	ICK FOR LOW	TEMP, 3	/4" THIC	K FOR MEDIUM TEMP		RLY MAN	INER. S	UCTION L	INES	S MUST			. —	A. REF	RIGERA	TION CO	NTRA	RACTOR CTOR SHA
		D. A	SILVER SOLDER AND/OR SIL-FOS SHA ALL PIPING TO BE PRESSURE TESTED FTER THE CONDENSING UNIT AND CO	D WITH NITRO	GEN AT	200 PSI.						WITH	ALL				B. REFI	RIGERA LL BOX(TION CO ES) ARE	NTRA SPEC	PROVIDED CTOR TO S IFIED, THE CTOR SHA
	3	8. <u>COI</u>	'ALVES OPENED. <u>NTROL PANEL</u> THE PACKAGE SHALL HAVE A FACTO	RY MOUNTED	AND PR	E-WIREI	D CONTROL PANEL C		H MAIN F	FUSED	DISCONN	ECT.				[D. REF E. REFI	RIGERA RIGERA	TION CO	NTRA	CTOR SHA
DLINE		C B.	COMPRESSOR CIRCUIT BREAKERS, FL ELECTRICAL CONTRACTOR SHALL PF HE WIRING DIAGRAM AND PER LOCAL	JSES, CONTAC ROVIDE AND IN	CTORS A	ND THE	TIME CLOCKS WIRE	D FOR SINGLE	POINT C								USE (G. SILV	ONLY LC	NG RAD DER AN	US EI D/OR \$	ONLY CLE LBOWS TO SIL-FOS SH
ION LINE	4	Α.	ETY CAUTION EACH SYSTEM AND EVAPORATOR IS ISE CAUTION AND EXERCISE SAFETY														H. ALL FLUID	PIPING I IN THE	MUST BI TUBING	E SUPI	SOLDER FO PORTED W PPER TUBI
F FLOW	5	5. <u>EVA</u> A.	APORATIVE COIL EVAPORATIVE COILS SHALL BE DIRE	CT EXPANSIO	N TYPE,	FABRIC	ATED OF COPPER TU	IBES WITH ALL									MUST OFFS	BE FRE	E TO EX	(PAND ER PIT	INDEPENE CHING, EX
		J	HALL BE PROVIDED WITH SOLENOID UNCTION BOX FOR POSITIVE PUMP D EVAPORATIVE COILS SHALL BE EQUII	OWN.			,	LECTRONIC T	HERMOS	STAT, PI	PED AND	WIR	ED TO TI	HE			APPR J. ALL I	OVED F	OR 450 I O BE PI	PSI WORESSL	ORKING PR JRE TESTE FORS SHAL
4																L	. ONC THER	E SYSTI MOSTA	EM IS CH FS, AND	iarge Time (L BE EVAC ED AND RUI CLOCKS. R
																	ELEC	TRICAL RIGERA	CONTRA	CTOR	INES OUTS
P-TRAP /ERY 15' YPICAL																	MANU D. FILL	JFACTUI ROOF F	RER. MIN REFRIGE	NIMUM RATIC	TRONG AR 1 THICKNES ON AND ELE
																	REFR		ED BASE	E SEC	CTOR TO S TIONS OF C TOR
		-	DRAWING TITLE:	_		5		_		-				•		,	A. ELE(AT TH	CTRICAI IE COIL.	CONTR	RACTO	
			REFRIGERAT		PLAI	N		\mathbf{v}	-	·	$\mathbf{\sim}$					(PROV C. ELE D. ALL	IDE SEF CTRICAI ELECTR	PARATE CONTE	POWE ACTO RING /	ER SOURCE OR TO CONI AND INSTA
			PROJECT NAME:					OOI	_	E						E	E. IF CO CLOS	ONTRAC	TED, EL All Pul	ECTR L BOX	ICAL CONT ES MUST B
ΑP			JOE SERNA SO	СНОО	L		REFF		-R	Δ٦)\	1 ()(ORP	,	A. PLU PER F REFR	MBING (FOOT OF IGERAT	CONTRA RUN. IN ED SPAC	CTOR N FREE CE TO	TO PROVIL EZER, HEA AVOID ENT
																					DE INDIVIDU FION SHALL
PING DOWN •NOT TO							1250 E. FI PHONE:				-		-								
			LODI, CA					AIL: gsh				•	,								

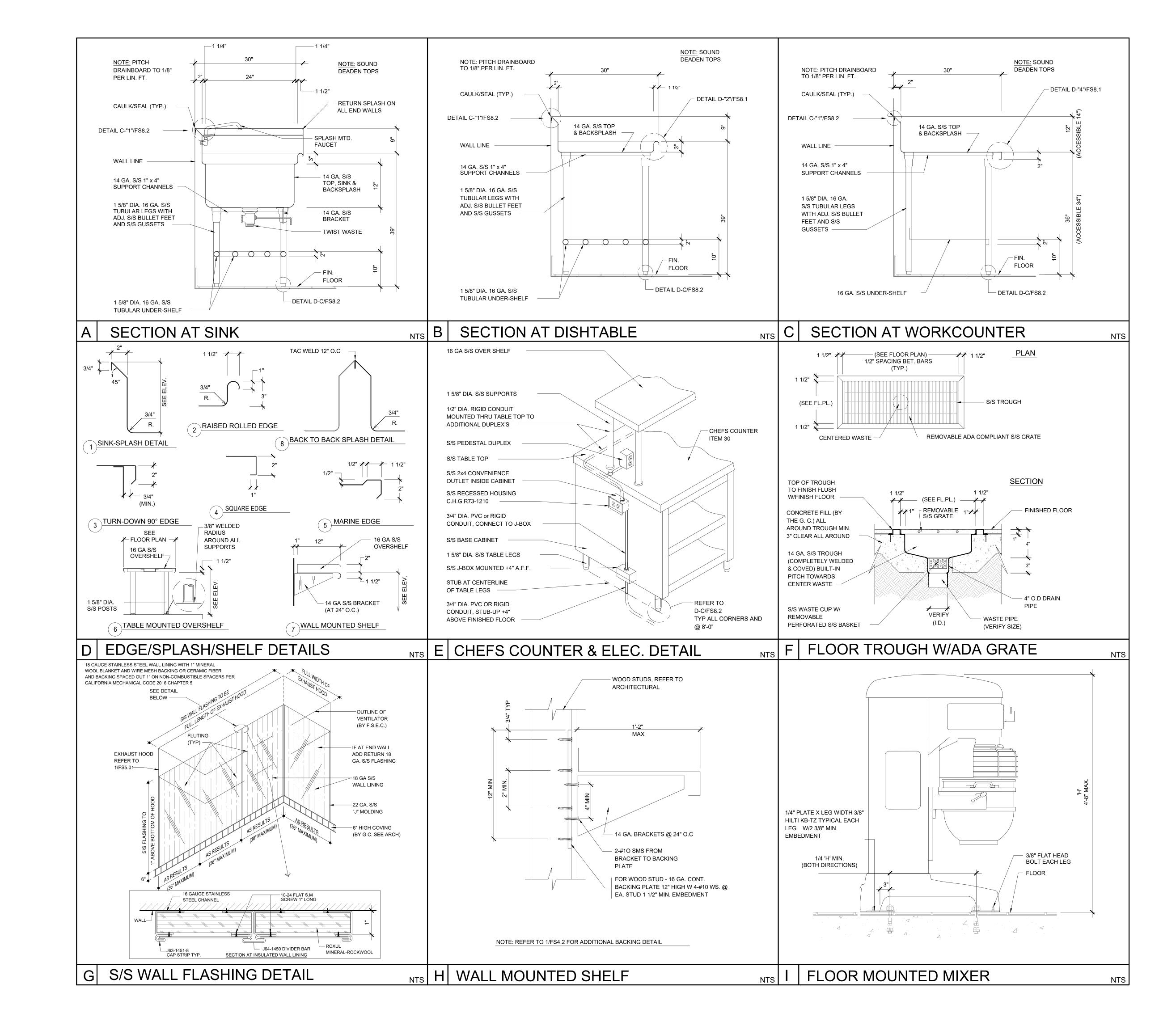




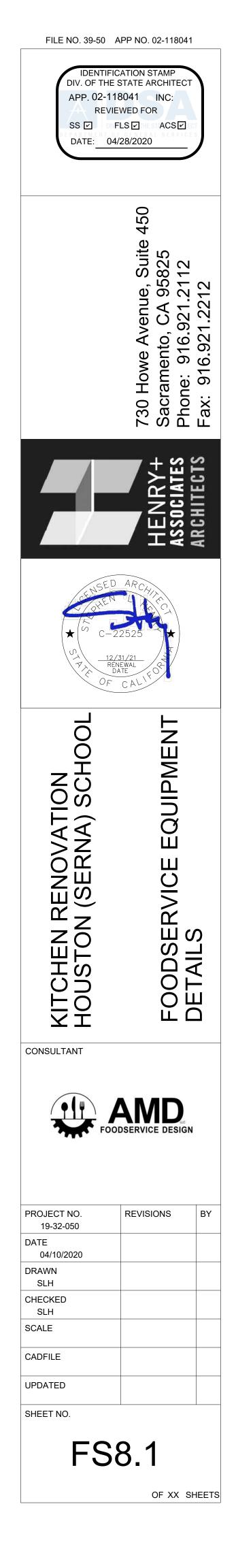


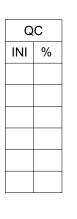


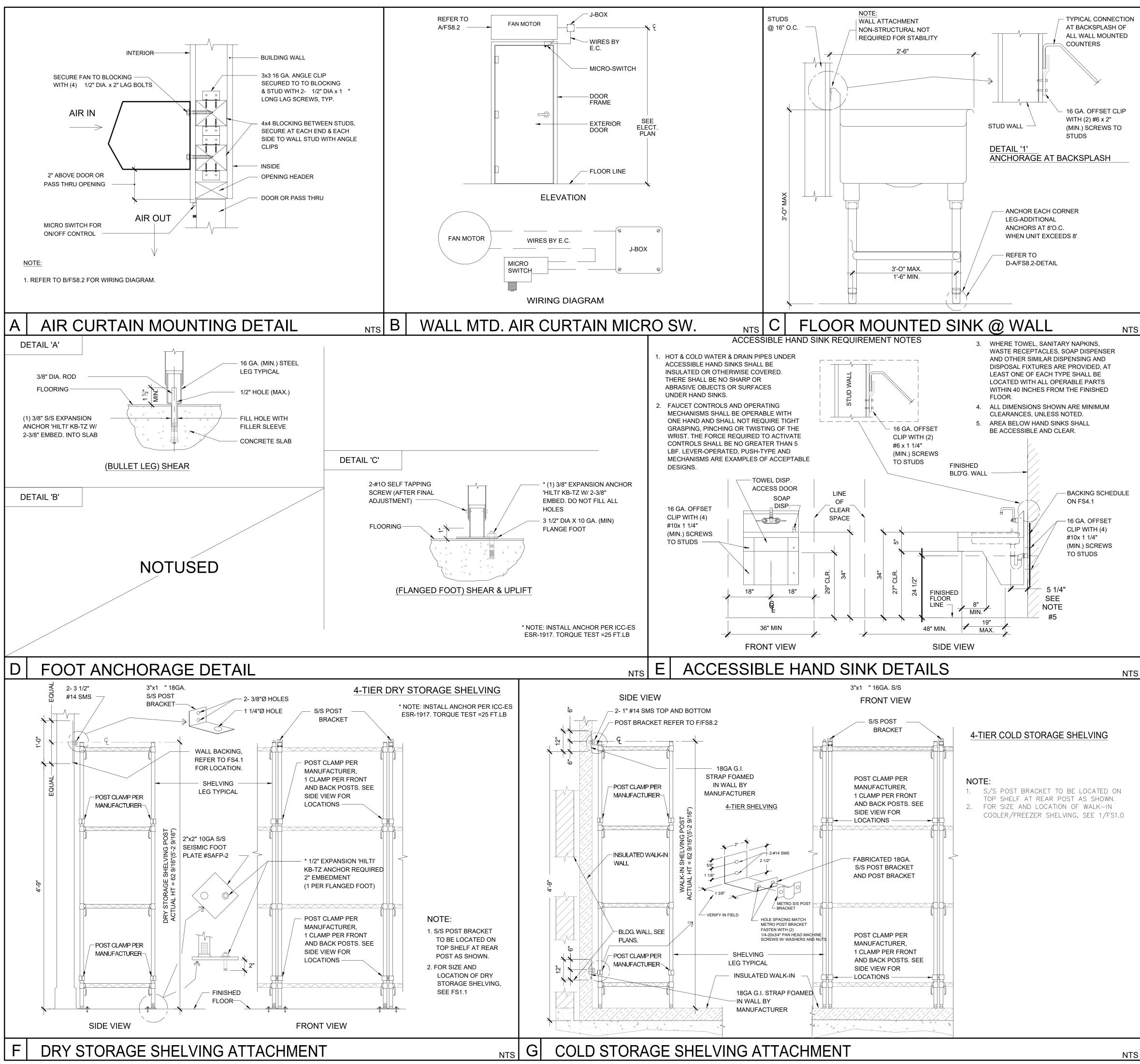
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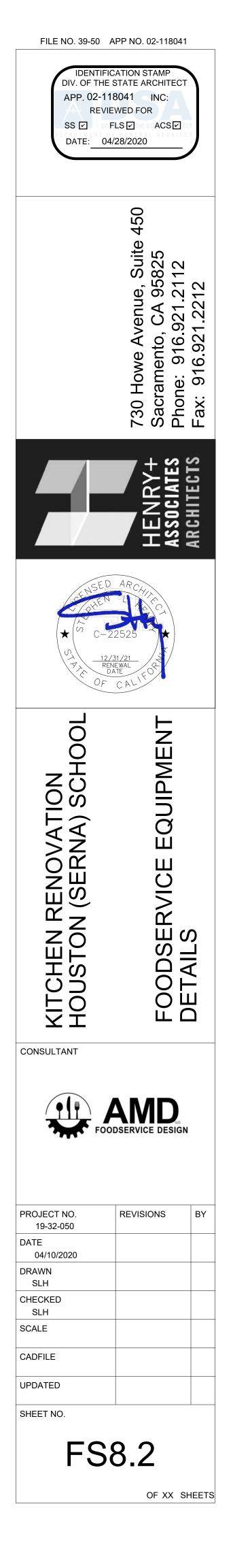


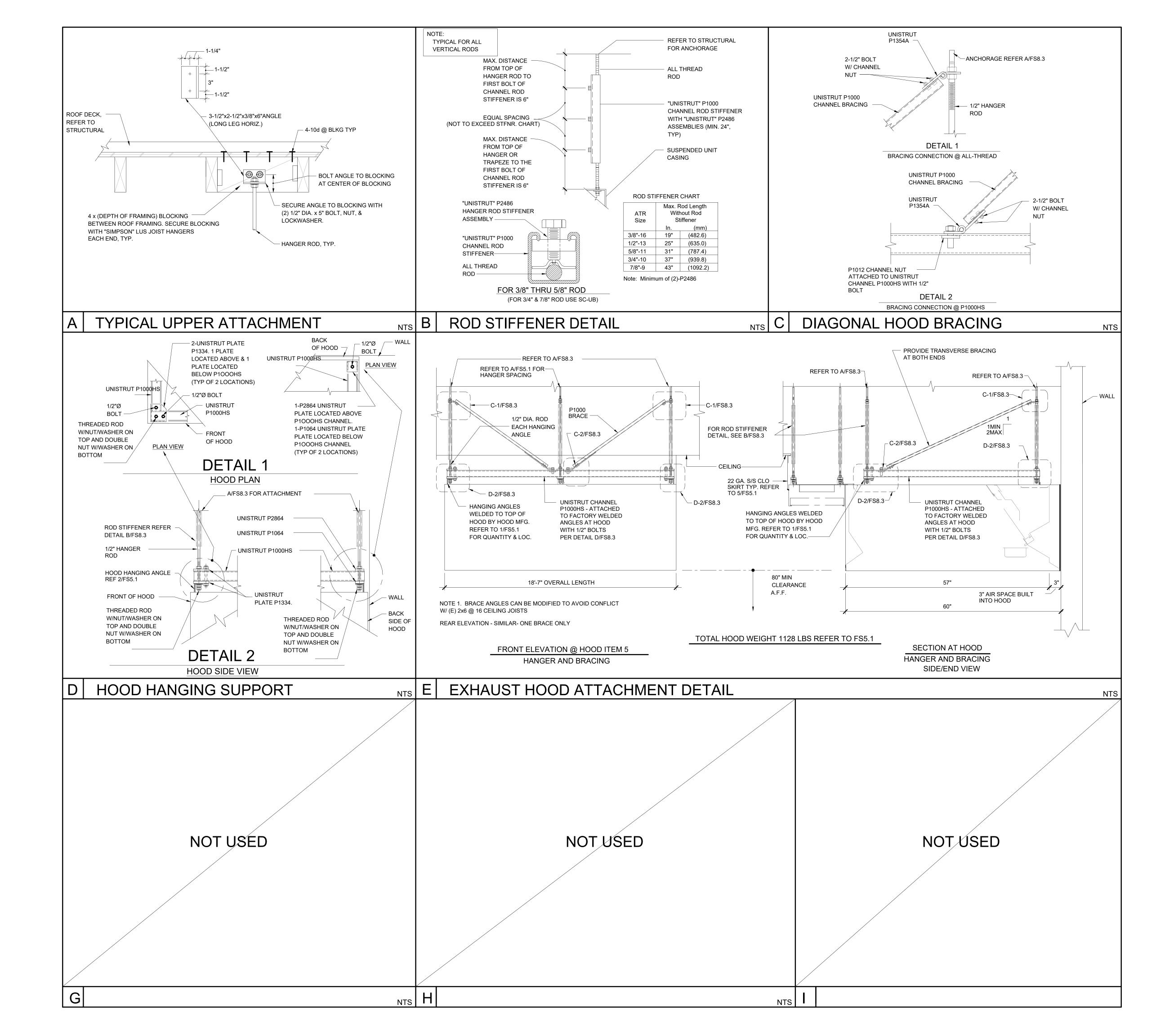
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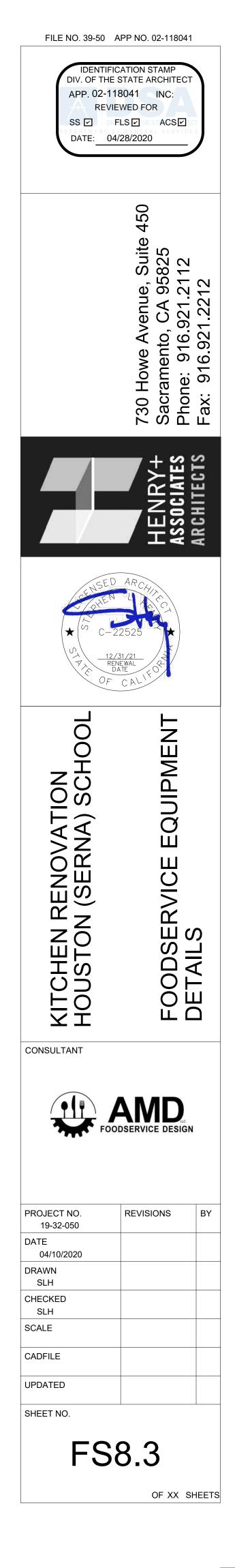


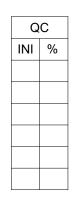


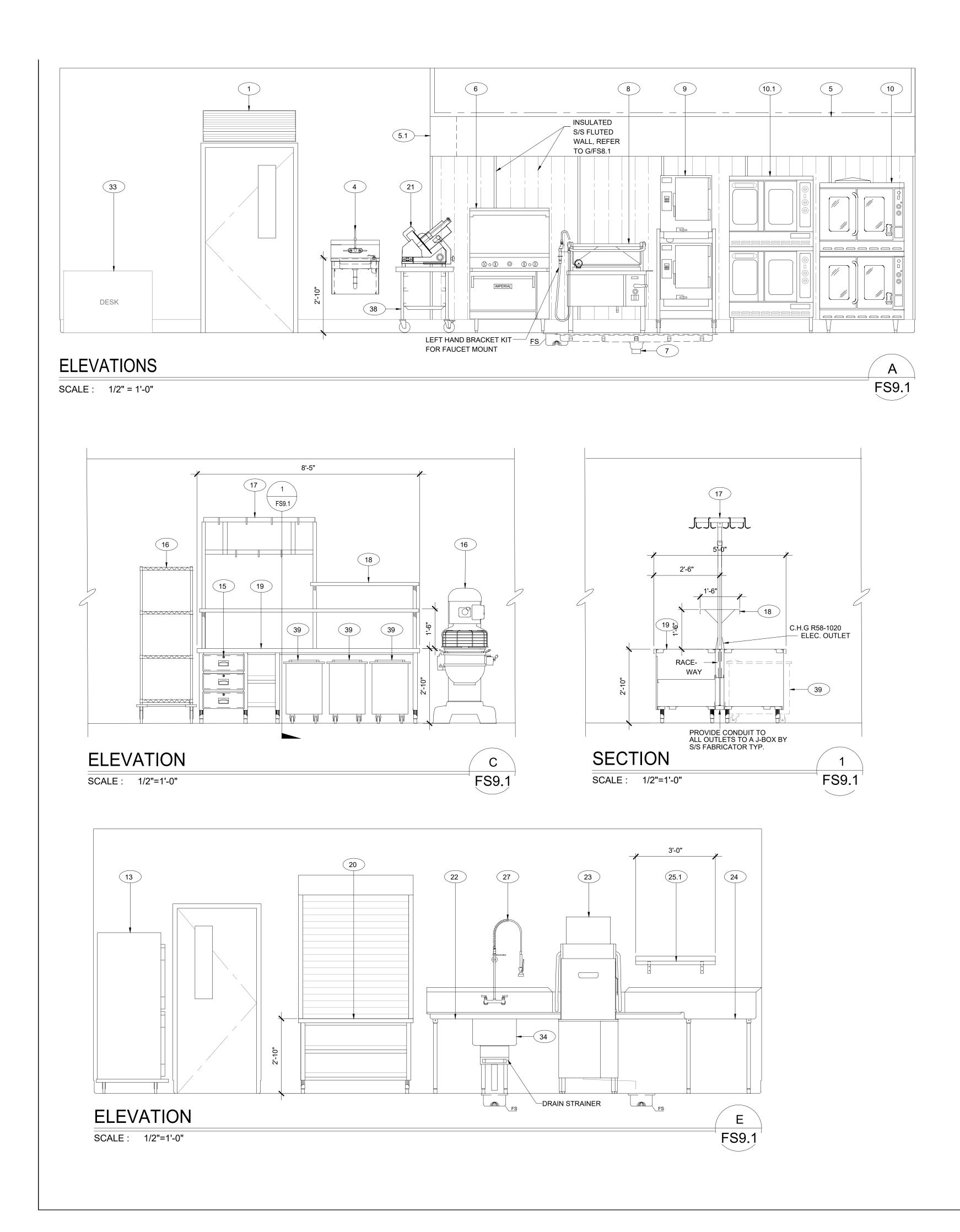












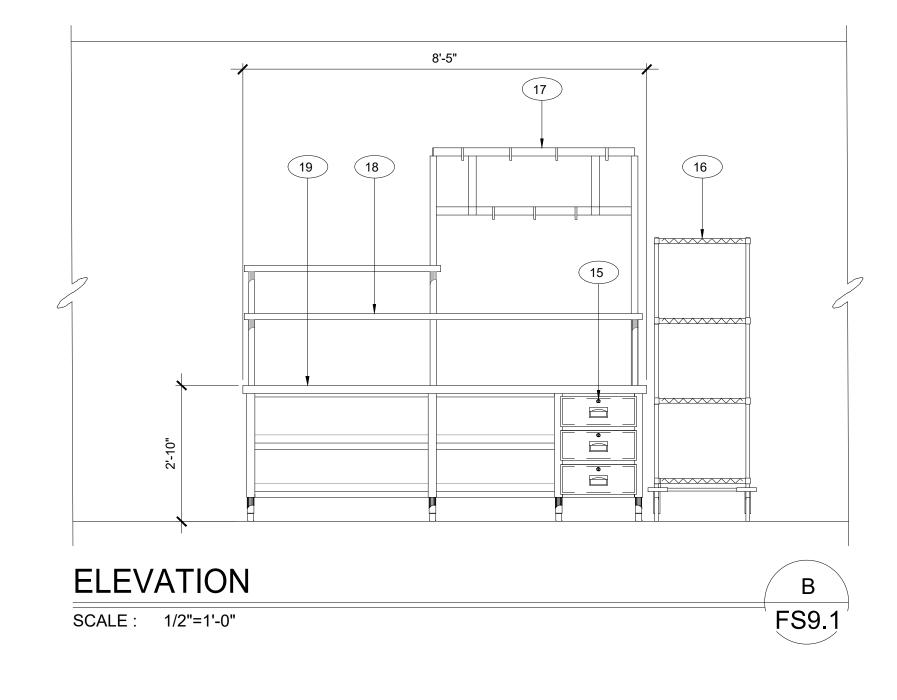


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SCALE : 1/2"=1'-0"

