FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE. FILLMORE, CA 93015

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

P.T.N. _____-____

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

ISSUED FOR:	
DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID JORDAN SMITH C30495 EXP. 07/31/2023 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
COVER IMAGE SHEET

SHEET NUMBER:
CS-0.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	JS	JS	08/26/2021

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ABBREVIATIONS

&	And	F.R.P.	Fiberglass Reinforced Panel	PT.	Paint
∠	Angle	F.V.	Field Verify	PR.	Pair
@	At	FIN.	Finish	PTN./PART.	Partition
℄	Centerline	F.F.E.	Finish Floor Elevation	PEN.	Penetration
°	Degree	F.G.	Finish Grade	PERF.	Perforated
PERP.⊥	Perpendicular	F.A.	Fire Alarm	P.LAM.	Plastic Laminate
ℙ	Property Line	F.E.	Fire Extinguisher	PL.	Plate
		F.E.C.	Fire Extinguisher Cabinet	P.V.	Plumbing Vent
A.F.F.	Above Finish Floor	FLASH.	Flashing	PLYWD.	Plywood
ACOUS.	Acoustical	F.H.M.B.	Flat Head Machine Bolt	LBS./#	Pound
ACT	Acoustical Ceiling Tile	F.H.M.S.	Flat Head Machine Screw	PRE-FAB.	Prefabricated
ADJ.	Adjustable	F.H.W.S.	Flat Head Wood Screw	P.M.F.	Pressed Metal Frame
AGGR.	Aggregate	FL./FLR.	Floor	P.T./P.T.D.F.	Pressure Treated Douglas Fir
A.B.	Aggregate Base	F.D.	Floor Drain		
ALUM./AL.	Aluminum	FT.	Foot/Feet	R.	Radius/Riser
ARCH.	Architectural	FTG.	Footing	R.W.L.	Rain Water Leader
A.D.	Area Drain	FND.	Foundation	RDWD.	Redwood
A.C.	Asphalt Concrete	FURR.	Furring	REF.	Reference
A.V.	Audio Visual			REFRIG.	Refrigerator
AUTO.	Automatic	GALV.	Galvanized	REINF.	Reinforced
		G.I.	Galvanized Iron	REQ'D.	Required
BM.	Beam	G.S.M.	Galvanized Sheet Metal	RET.	Return
BLK.	Block	G.W.H.	Gas Water Heater	R.D.	Roof Drain
BLKG.	Blocking	GA.	Gauge	RM.	Room
BD.	Board	GLU.LAM./G.L.B.	Glue Laminated (Beam)	R.O.	Rough Opening
BOT.	Bottom	G.B.	Grab Bar	R.H.W.S.	Round Head Wood Screw
BLDG.	Building	GR.	Grade	R.B.	Rubber Base
		GND.	Ground		
CAB.	Cabinet	GYP.	Gypsum	SECT.	Section
CATV	Cable T.V.	GYP.BD.	Gypsum Wallboard	S.SK.	Service Sink
C.I.	Cast Iron			SHTG.	Sheathing
C.B.	Catch Basin	HW.	Hardware	SHT.	Sheet
CLKG.	Caulking	HDWD.	Hardwood	S.M.	Sheet Metal
CLG.	Ceiling	HDR.	Header	S.M.S.	Sheet Metal Screw
CEM.	Cement	HVAC	Heating/Ventilating Air Conditioning	S.V.	Sheet Vinyl
CNTR./CTR.	Center			SHR./SHWR.	Shower
CER.	Ceramic	H./HT.	Height	SIM.	Similar
C.L.	Chain Link	H.M.	Hollow Metal	S.C.	Solid Core
CB.	Chalkboard	HOR./HORIZ.	Horizontal	S.	South
C.R.	Classroom	H.B.	Hose Bib	SPEC.	Specification
CLR.	Clear	HR.	Hour (Fire Rating)	SQ.	Square
C.W.	Cold Water			SST./S.S.	Stainless Steel
COL.	Column	IN.	Inch	STD./STND.	Standard
CONC.	Concrete	INFO.	Information	STL.	Steel
C.M.U.	Concrete Masonry Unit	I.D.	Inside Diameter	STOR.	Storage
CONN.	Connection	INSUL.	Insulation	S.D.	Storm Drain
CONST.	Construction	INT.	Interior	ST.	Street
C.J.	Construction Joint/ Control Joint	INV.	Invert	STRUCT.	Structural
CONT.	Continuous	JAN.	Janitor	SUSP.	Suspended
CONTR.	Contractor	JT.	Joint	SYM.	Symbol
CORR.	Corridor	JST.	Joist		
C.M.P.	Corrugated Metal Pipe			TB.	Tackboard
C.Y.	Cubic Yard	KP.	Kickplate	TEL./TELE.	Telephone
CUST.	Custodian	KIT.	Kitchen	T.V.	Television
				T.CLR.	Tempered Clear
D.	Deep/Depth	LAM.	Laminate	T.L.T.	Tempered Low Transmission
DET./DTL.	Detail	LAV.	Lavatory	THK.	Thick
DIAG.	Diagonal	LT.WT.	Light Weight	THRES.	Threshold
DIA./Ø	Diameter	L.F.	Lineal Feet	THRU.	Through
DIM.	Dimension			T./TLT.	Toilet
DIM.PT.	Dimension Point	M.B.	Machine Bolt	T&G	Tongue & Groove
D.A.	Disabled Accessible	MH.	Manhole	T.O.	Top of
DW.	Dishwasher	MFR.	Manufacturer	T.O.C.	Top of Curb
DR.	Door	M.O.	Masonry Opening	T.O.P.	Top of Pavement
DBL.	Double	MATL.	Material	T.O.W.	Top of Wall/Top of Walk
DN.	Down	MAX.	Maximum	T.S.	Tube Steel
DS.	Downspout	MECH.	Mechanical	TYP.	Typical
D.I.	Drain Inlet	MEMB.	Membrane		
DWG.	Drawing	MTL.	Metal	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain	MEZZ.	Mezzanine	U.O.N.	Unless Otherwise Noted
EA.	Each	MIN.	Minimum	VERT.	Vertical
E.	East	MISC.	Miscellaneous	V.G.D.F.	Vertical Grain Douglas Fir
ELEC.	Electrical	MTD.	Mounted	V.C.T.	Vinyl Composition Tile
E.W.C.	Electric Water Cooler	M.P.	Multipurpose	V.W.C.	Vinyl Wall Covering
E.W.H.	Electric Water Heater			VIF	Verify In Field
EL./ELEV.	Elevation	(N)	New		
EMER.	Emergency	NOM.	Nominal	W.SCT.	Wainscot
ENCL.	Enclosure	N.	North	W.C.	Water Closet
EQ.	Equal	N.I.C.	Not in Contract	W.H.	Water Heater
EQUIP.	Equipment	N.T.S.	Not to Scale	WT.	Weight
E.F.	Exhaust Fan	NO./ #	Number	W.W.M.	Welded Wire Mesh
(E)/EXST.	Existing			W.	West/Width
EXP.	Expansion	O.C.	On Center	WDW.	Window
E.J.	Expansion Joint	OPP.	Opposite	W.G.	Wire Glass
EXT.	Exterior	O.H.	Opposite Hand	W/	With
		O.D.	Outside Diameter	W/O	Without
F.O.C.	Face of Concrete/Curb	O.H.W.S.	Oval Head Wood Screw	WD.	Wood
F.O.F.	Face of Finish	O/	Over		
F.O.S.	Face of Studs	OA.	Overall	YD.	Yard
FB.	Fiberboard			Y.D.	Yard Drain

SUPPLEMENTAL SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND RETURN THEM TO THE CONTRACTOR WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

HAZARDOUS MATERIAL DISCLAIMER

HAZARDOUS MATERIALS MAY BE PRESENT IN CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. UPON DISCOVERY, IDENTIFICATION AND/OR REMEDIATION OF HAZARDOUS MATERIALS, REPORT TO THE CONSTRUCTION MANAGER AND OWNER. THE OWNER HAS FULL AND SINGLE RESPONSIBILITY FOR THESE MATERIALS AND DIRECTIVE FOR THEIR REMEDIATION.

REFER TO HAZARDOUS MATERIAL REPORT TO BE PROVIDED BY:
FILLMORE UNIFIED SCHOOL DISTRICT

CERTIFICATION:

THIS PROJECT (A#03-121233) CANNOT BE CERTIFIED UNTIL A#03-119532 IS CERTIFIED FOR REQUIRED FIRE ALARM SCOPE OF WORK.

THIS PROJECT SHALL NOT BE CERTIFIED UNTIL THE A#03-119532 IS CLOSED WITH CERTIFICATION DUE TO SITE ACCESSIBILITY REQUIREMENTS.

GENERAL NOTES

1. SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES.
2. "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO: WESTGROUP DESIGNS. (949) 250-0880.
3. REFERENCE TO MAKES, BRANDS, AND MODEL IS TO ESTABLISH TYPE AND QUALITY DESIRED. WHERE "OR EQUAL" IS STATED, THE ARCHITECT SHALL DETERMINE ACCEPTABILITY.
4. "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, U.N.O.
5. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS & ORIENTATION ON PLANS & ELEVATIONS.
6. INSTALL ALL FINISH MATERIALS AND MANUFACTURED SYSTEMS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AS REQUIRED FOR THE JOB SPECIFIC APPLICATION.
7. VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
8. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE ARCHITECT SHALL BE ASKED FOR CLARIFICATION. IF A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS IS BROUGHT TO THE ATTENTION OF THE ARCHITECT AFTER AWARD OF BID, NO ADDITIONAL COST TO THE PROJECT SHALL BE INCURRED FOR CLARIFYING TO PROCEED PER THE DRAWINGS OR SPECIFICATIONS.
9. DIMENSIONS:
   a. DO NOT SCALE DRAWINGS.
   b. ALL DIMENSIONS ARE TO THE FACE OF STUD, OR FACE OF CONCRETE, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
   c. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FACE OF FINISH OF CEILING MATERIAL, UNLESS NOTED OTHERWISE.
   d. LARGE SCALE DRAWINGS SHALL GOVERN OVER SMALLER SCALE DRAWINGS.
   e. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
   f. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
10. WHERE NOTED "V.I.F. " OR "VERIFY", THE DIMENSIONS ARE TO BE CHECKED IN THE FIELD, NOTIFY THE ARCHITECT IF THE FIELD DIMENSIONS ARE NOT SUITABLE FOR THE INTENDED PURPOSE.
11. VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL CHARGES TO OWNER.
12. PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, AND SEALANT AS REQUIRED FOR PROPER INSTALLATION OF THE WORK.
13. WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER PIPING AND CONDUITS, THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS. NOTIFY THE ARCHITECT OF ANY POTENTIAL CLEARANCE CONFLICTS.
14. PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
15. ALL BUILDING OR SITE CONSTRUCTION RUBISH AND DEBRIS SHALL BE REMOVED AND FLOORS SWEPT CLEAN ON A DAILY BASES; RUBISH AND DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE IN THE BUILDING OR ON SITE.

PROJECT DIRECTORY

OWNER:

FILLMORE UNIFIED SCHOOL DISTRICT
Fillmore Unified School District
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SHEET COUNT: 91	

DSA GENERAL NOTES

1. ALLWORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE SCOPE OF WORK-: CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
3. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FO R THE PROJECT.
7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK FO THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
9. DSA CERTIFIED PROJECT INSPECTOR CLASS 2 IS REQUIRED FOR THIS PROJECT

SYMBOL LEGEND

SHEET NUMBERING SYSTEM

ROOM NAME and NUMBERING REFERENCE

KEYNOTE REFERENCE

SHEET NOTE REFERENCE

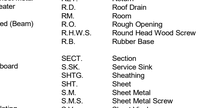
DEMOLITION NOTE REFERENCE

DETAIL REFERENCE

BUILDING SECTION REFERENCE

WALL SECTION REFERENCE

STRUCTURAL GRID IDENTIFIER
(center of framing)



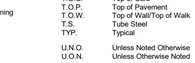
CENTERLINE

WORK POINT CONTROL

REVISION

RADIUS

EXTERIOR ELEVATION REFERENCE



INTERIOR ELEVATION REFERENCE

PARTIAL LIST OF APPLICABLE CODES

ALL WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS 2019 EDITION PARTS 1 THROUGH 12:

2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
• (2018 INTERNATIONAL BUILDING CODE VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
• (2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
• (2018 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
• (2018 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
• (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
• (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.R.R.
2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.R.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.
• 2010 ADA STANDARD FOR ACCESSIBILITY DESIGN

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2016 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	STANDARD FOR CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNAL DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UI 1971	STANDARDS FOR SIGNALING DEVICES FOR HEARING IMPARED	2002 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION

FOR COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

SCOPE OF WORK

SITE LOCATION

555 CENTRAL AVE. FILLMORE, CA 93015

PROJECT DESCRIPTION:

- **Interior improvements to Cafeteria Building "9" to include new paint and millwork at Staff Dining. New concession room with new finishes, millwork, and overhead pass through doors. New ceilings at main cafeteria room.**
- **Interior improvements to Library Building "8" to include new partitions and MEP upgrades to create new Career Center and IT rooms at former ESB. New light fixtures, overhead doors and new storefront at Reading Room.**
- **Exterior improvements at Building "17" Patio, including removal skateboard racks and landscaping and addition of stairs.**
- **Removal of exterior canopy/trellis attached to Building "2" (786 SF).**
- **Installation of 2 exterior DSA pre-approved steel shade structures, 40' X 20' at Art Building "1" courtyard (1,000 SF) and 40' X 20' at Administration Building "2" (794 SF).**
- **Remodel existing courtyard.**

DSA PC CANOPY INFORMATION

DSA PC (PRE-APPROVED) JOINED FULL CANTI HIP CANOPY BY USA SHADE.

DSA PC#: 04-117140

MODEL #: DSA3022060-16

STATEMENT OF GENERAL CONFORMANCE

USE OF CONSTRUCTION DOCUMENTS PREPARED BY OTHER PROFESSIONALS

IR A-18_TITLE 24, PART 1, SECTION 4-316,4-317

Application No. ***03-121233*** File No. ***56-H1***

All Structural, Mechanical, Electrical, and Plumbing drawings as listed in the sheet index above have been prepared by other design professionals or consultants who are licensed and / or authorized to prepare such drawings in this State. They have been examined by me for:
1) design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications, and
2) coordination with my plans and specifications and are acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1.(Title 24,Part 1, Section 4-317 (b))

I certify that these drawings and /or page:

☒ are in general conformance and
☒ have been coordinated

01.26.21
Signature — Date
Architect designated to be in general responsible charge

David Jordan Smith
Print Name

C-20495 — 01.31.23
License Number — Expiration Date

VICINITY MAP

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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ARCHITECTURE | PLANNING | INTERIOR DESIGN

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — Exp. 01/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

PROJECT INFORMATION

SHEET NUMBER:

CS-0.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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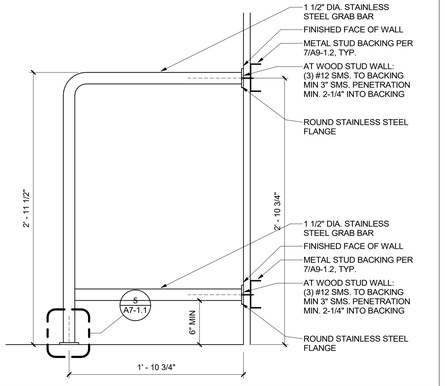
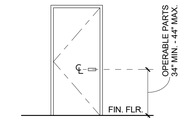
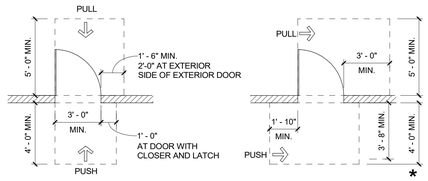


DRINKING FOUNTAIN GUARD

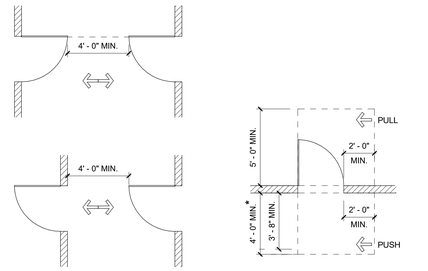
12 | 1 1/2" = 1'-0"



DOOR HARDWARE



FRONT APPROACH | **SIDE APPROACH-HINGE**

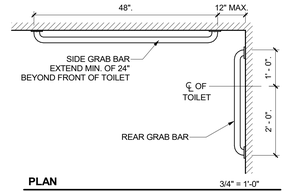


IN SERIES | **SIDE APPROACH-LATCH**

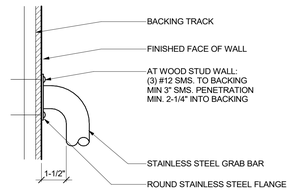
*AT DOOR WITH LATCH AND CLOSER

ADA DOORS AND GATES

7 | 1/4" = 1'-0"



PLAN 3/4" = 1'-0"



TYPICAL GRAB BAR RAILS

4 | 3" = 1'-0"

GENERAL NOTES

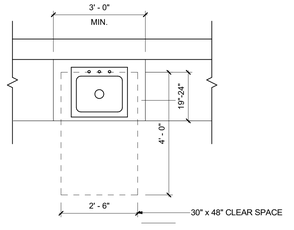
1. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
2. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER-OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET IS WITHIN THE ABOVE MENTIONED FORCE REQUIREMENTS.
3. GRAB BAR SHALL BE 1¼" - 1½" DIAMETER OR THE SHAPE PROVIDING EQUIVALENT GRIPPING SURFACE. CLEARANCE BETWEEN GRAB BAR AND WALL SHALL BE 1½" WIDE.
4. GRAB BAR SHALL BE SMOOTH. EDGES SHALL HAVE RADIUS OF 1/8" MINIMUM.
5. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:
   a. BENDING STRESS IN GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAT THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
   b. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
   c. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250-LB POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
   d. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. SURFACE OF WALL ADJACENT TO GRAB BAR SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
7. OPERABLE PARTS (INCLUDING COIN SLOTS) OF ALL FIXTURES OR ACCESSORIES SHALL BE LOCATED A MAXIMUM OF 40" ABOVE FINISH FLOOR. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE 5 LBS. MAXIMUM.

TOILET COMPARTMENTS

1. COMPARTMENT DOOR TO ACCESSIBLE FIXTURE MUST COMPLY WITH DOOR MANEUVERING REQUIREMENTS, AND IN NO CASE SHALL THE SPACE IMMEDIATELY OUTSIDE OF THE WATER CLOSET COMPARTMENT DOOR BE LESS THAN 48" MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.
2. STALL DOOR MUST BE SELF-CLOSING, AND HAVE U-PULLS ON BOTH SIDES. IF PROVIDED, THE LOCKING MECHANISM MUST BE ACCESSIBLE, NOT REQUIRING GRASPING, PINCHING OR TURNING OF THE WRIST.
3. DOORS, OTHER THAN THE DOOR TO THE ACCESSIBLE COMPARTMENT, CANNOT SWING INTO THE WHEELCHAIR TURNING SPACE BY MORE THAN 12".
4. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17" AND A MAXIMUM OF 19" MEASURED TO THE TOP OF THE TOILET SEAT.
5. FLUSH CONTROLS SHALL BE OPERABLE BY AN OSCILLATING HANDLE WITH A MAXIMUM OPERATING FORCE OF 5 LBS. OR BY A REMOTE LOW VOLTAGE BUTTON. THE HANDLE OR BUTTON SHALL BE LOCATED SO THEY ARE OPERABLE WITHOUT REQUIRING EXCESSIVE BODY MOVEMENT.
6. FLUSH VALVE SHALL BE ON WIDE SIDE OF TOILET AREA. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING.

ELECTRICAL

1. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH THE FOLLOWING:
   a. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
   b. UNOBSTRUCTED FORWARD OR SIDE REACH SHALL BE 48" MAXIMUM AND 15" MINIMUM ABOVE THE FINISH FLOOR OR GRADE.
   c. OBSTRUCTED FORWARD REACH DEPTH OF 20" OR LESS SHALLL BE 48" HIGH MAXIMUM. OBSTRUCTED FORWARD REACH DEPTH GREATER THAN 20" SHALL BE 44" HIGH MAXIMUM WITH A MAXIMUM OBSTRUCTED REACH DEPTH OF 25".
   d. OBSTRUCTED SIDE REACH DEPTH OF 10" OR LESS SHALLL BE 48" HIGH MAXIMUM. OBSTRUCTED SIDE REACH DEPTH GREATER THAN 10" SHALL BE 46" HIGH MAXIMUM WITH A MAXIMUM OBSTRUCTED REACH DEPTH OF 24" MAXIMUM.



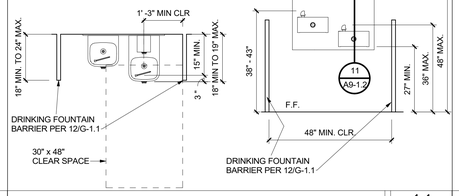
FOR SECTION AND CLEAR SPACE SEE: 6 / G-1.1

ADA SINK CABINET

15 | 1/2" = 1'-0"

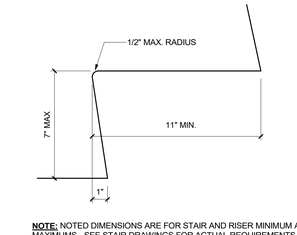
DRINKING FOUNTAINS

1. THE BUBBLER OUTLET ORIFICE SHALL BE LOCATED WITHIN 5" OF THE FRONT OF THE DRINKING FOUNTAIN AND SHALL BE WITHIN 36" OF THE FLOOR. THE WATER STREAM FROM THE BUBBLER SHALL BE PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.
2. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MINIMUM AND SHALL BE LOCATED 5" MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3" OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3" AND 5" MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAT 5 LBS.
3. DRINKING FOUNTAIN MUST BE 18" - 19" DEEP AND ALLOW FRONT APPROACH.
4. KNEE CLEARANCE MUST BE 27" MIN. A.F.F. FOR DEPTH OF A 8" MIN. MEASURED FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN.
5. TOE CLEARANCE MUST BE 9" MIN. A.F.F. AND 17" MIN. TO 19" MAX DEEP, MEASURED FROM THE FRONT OF THE DRINKING FOUNTAIN.
6. FOR ATTACHMENT, SEE DETAIL 11/A9-1.2



ADA DRINKING FOUNTAIN

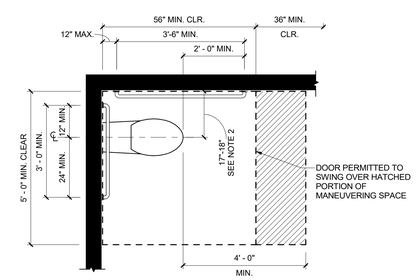
11 | 1/2" = 1'-0"



NOTE: NOTED DIMENSIONS ARE FOR STAIR AND RISER MINIMUM AND MAXIMUMS - SEE STAIR DRAWINGS FOR ACTUAL REQUIREMENTS.

STAIR TREAD

3 | 3" = 1'-0"

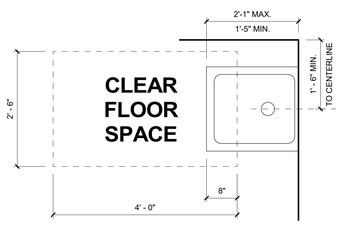


NOTES:

1. 4'-11" MIN. CLEAR @ FLOOR MOUNT WATER CLOSET
   4'-8" MIN. CLEAR @ WALL MOUNT WATER CLOSET
2. DESIGN REQUIREMENT 1'-6" (CODE ALLOWABLE 1'-5" TO 1'-7")

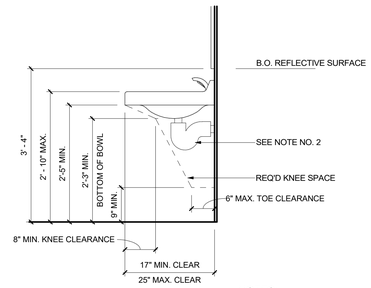
CLEARANCES AT WATER CLOSET

14 | 1/2" = 1'-0"



NOTES:

1. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE.
2. SEE ENLARGED RESTROOM PLANS FOR FIXTURES REQUIRING THE 30 X 48 FLOOR SPACE.

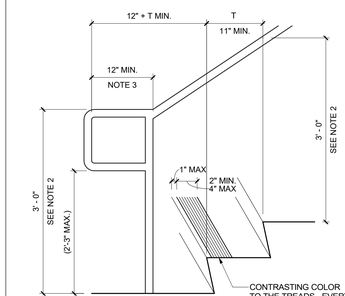


NOTES:

1. NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY.
2. PROVIDE INSULATION WRAP FOR HOT WATER PIPE.
3. ALL KNEE & TOE AREAS ARE TO BE CLEAR.
4. MAXIMUM HEIGHT SHOWN TO TOP LIP OF SINK.

CLEAR FLOOR SPACE AT ADA FIXTURES

6 | 3/4" = 1'-0"



NOTES:

1. ACCESSIBLE REQUIREMENTS ONLY. SEE STAIR DRAWING SHEETS FOR ACTUAL HANDRAIL, TREAD, AND RISER DESIGN. ALL HANDRAIL EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
2. DESIGN REQUIREMENT 3'-0" (CODE ALLOWABLE 34" TO 38")
3. AT TOP, LEVEL PORTION OF RAIL TO EXTEND HORIZONTALLY FROM FACE OF LANDING. AT BOTTOM, LEVEL PORTION OF RAIL TO BE AT A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS.

STAIR REQUIREMENTS

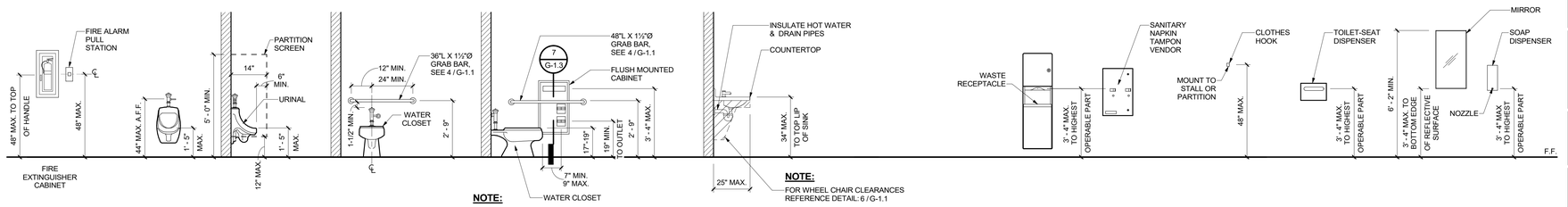
2 | 1" = 1'-0"

604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE SHALL COMPLY WITH 604.9.

ADVISORY 604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE. THE REQUIREMENTS IN 604.9 ARE TO BE FOLLOWED WHERE THE EXCEPTION FOR CHILDREN'S WATER CLOSETS IN 604.1 IS USED. THE FOLLOWING TABLE PROVIDES ADDITIONAL GUIDANCE IN APPLYING THE SPECIFICATIONS FOR WATER CLOSETS FOR CHILDREN ACCORDING TO THE AGE GROUP SERVED AND REFLECTS THE DIFFERENCES IN THE SIZE, STATURE, AND REACH RANGES OF CHILDREN AGES 3 THROUGH 12. THE SPECIFICATIONS CHOSEN SHOULD CORRESPOND TO THE AGE OF THE PRIMARY USER GROUP. THE SPECIFICATIONS OF ONE AGE GROUP SHOULD BE APPLIED CONSISTENTLY IN THE INSTALLATION OF A WATER CLOSET AND RELATED ELEMENTS.

ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12

	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTERLINE	12 INCHES	12 TO 15 INCHES	15 TO 18 INCHES
TOILET SEAT HEIGHT	11 TO 12 INCHES	12 TO 15 INCHES	15 TO 17 INCHES
GRAB BAR HEIGHT	18 TO 20 INCHES	20 TO 25 INCHES	25 TO 27 INCHES
DISPENSER HEIGHT	14 INCHES	14 TO 17 INCHES	17 TO 19 INCHES



NOTE: FOR CLEARANCES REFERENCE DETAIL: 14 / G-1.1

NOTE: FOR WHEEL CHAIR CLEARANCES REFERENCE DETAIL: 6 / G-1.1

TYPICAL MOUNTING HEIGHTS

1 | 3/8" = 1'-0"

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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
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DATE: 04/20/2022

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LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

ACCESSIBILITY STANDARDS

SHEET NUMBER:

G-1.1

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20624	Author	Checker	08/26/2021

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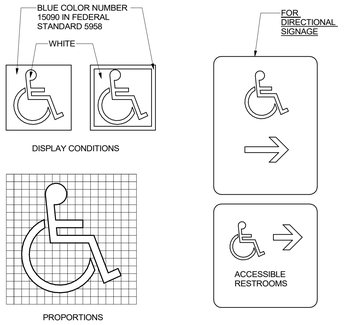


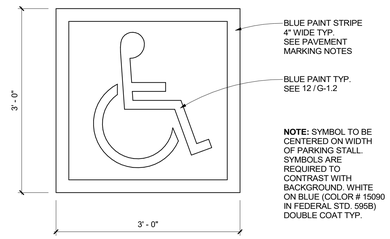
ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH A WHITE FIGURE ON BLUE, 6" SQUARE MIN.

ACCESSIBLE INTERNATIONAL SYMBOL — 12 — 12" = 1'-0"

OUTLINING A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON BLUE BACKGROUND. THE PROFILE VIEW SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE AND SHALL BE 36 INCHES HIGH BY 36 INCHES WIDE.

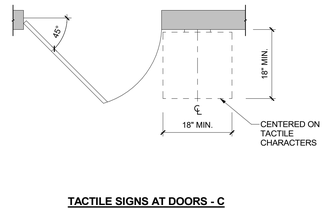
PAVEMENT MARKINGS:

1. PAINTED LINES AND MARKINGS ON PAVEMENT SHALL BE 4" MINIMUM WIDE AND BLUE IN COLOR EQUAL TO COLOR NO. 15090 PER FEDERAL STANDARD 595B.



NOTE: SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. WHITE ON BLUE (COLOR # 15090 IN FEDERAL STD. 595B) DOUBLE COAT TYP.

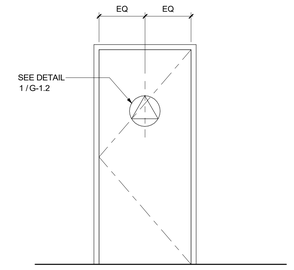
ACCESSIBLE PARKING SYMBOL — 11 — 1" = 1'-0"



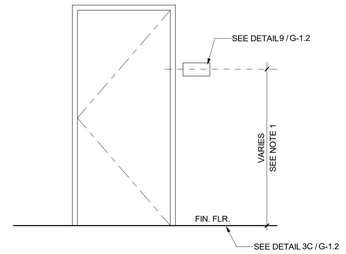
TACTILE SIGNS AT DOORS - C

NOTES

1. SIGNS WITH TACTILE CHARACTERS SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. CBC 11B-703.4.1
2. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. CBC 11B-703.4.2
3. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. CBC 11B-703.4.2
4. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. CBC 11B-703.4.2
5. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. CBC 11B-703.4.2



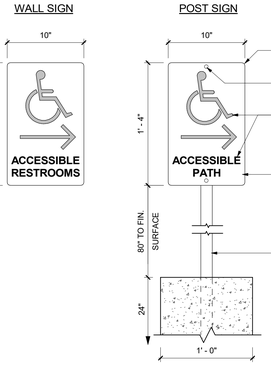
RESTROOM DOOR - B



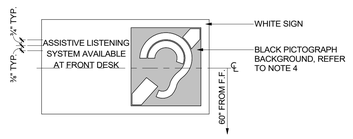
TYPICAL DOOR - A

* **NOTE:** SEE NOTES AT DETAIL: 13 / G-1.2

TYPICAL SIGN MOUNTING — 3 — 1/2" = 1'-0"



ACCESSIBLE DIRECTIONAL SIGNAGE — 18 — 1 1/2" = 1'-0"



NOTES:

1. PERMANENT ASSISTIVE LISTENING DEVICE RADIO FREQUENCY (FM)
   (1) PE5 50T FM TRANSMITTER BY WILLIAM SOUND OR SIMILAR
   (6) PE 300R RECEIVER BY WILLIAM SOUND OR SIMILAR
   (6) TELEX HGA-1 OR SIMILAR EAR-BUDS

   MIN. (6) REQUIRED - 136 SEATS * 4% = (6)
   CONTACT: HEARING PROMOTIONS (714) 669-0401
2. COORDINATE SPEAKER LOCATION WITH ARCHITECT.
3. LETTER STYLE: UPPERCASE SANS SERIF. FOR MORE INFORMATION SEE: 13 / G-1.2
4. PICTOGRAPH SHALL BE WHITE ON BLACK BACKGROUND AND MEET THE REQUIREMENTS OF FIGURE 11B-703.7.2.4
5. SPECIFIC INFORMATION TO BE PROVIDED ON SHOW DRAWING SUBMITTAL
6. MOUNTING HEIGHT TO BE 5'-0" TO CENTER OF SIGN

ASSISTIVE LISTENING SYSTEM SIGN — 17 — 1/2" = 1'-0"

1. CHARACTER TYPE

CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5 BELOW). PER CBC SEC. 11B-703.

2. CHARACTER SIZE

RAISED CHARACTERS SHALL BE A MIN. OF 5/8" AND A MAXIMUM OF 2" HIGH.

3. FINISH AND CONTRAST

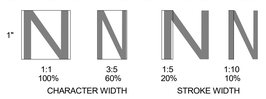
CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND, MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1, 11B-7.3.6.2, & 11B-703.7.1.

4. PROPORTIONS

CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 11B-703.2.4 & 11B-703.2.6.

ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X, AND O AT 1" HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1", NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

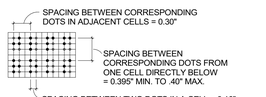
TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



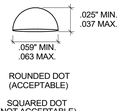
5. BRAILLE

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE POSITIONED WITHIN CELLS PER THE SPACING SHOWN IN THE DIAGRAM BELOW. DOTS SHALL BE RAISED ABOVE THE BACKGROUND PER THE BELOW DIAGRAM. SEE SECTION 11B-703.3 &11B-703.3.1 FOR ADDITIONAL INFORMATION.

BRAILLE CELL



BRAILLE DOT

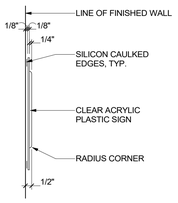


BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

6. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES (76 MM) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

7. RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 11 0 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

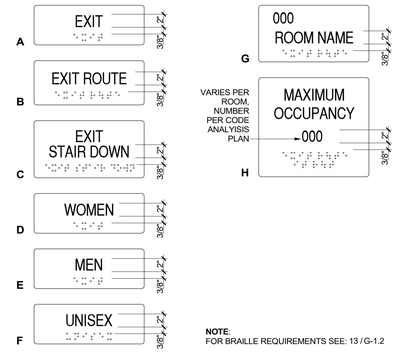
GRAPHIC ELEMENTS — 13 — 1/2" = 1'-0"



NOTES:

1. ATTACH SIGN WITH ADHESIVE ONLY AND CAULK EDGES WITH CLEAR SILICON. SIGN SHALL BE CENTER DOOR AND MOUNTED 60" (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE. MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
2. CHARACTER HEIGHT, PROPORTION RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGN, FINISH AND CONTRAST, MOUNTING HEIGHT AND LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF CBC.

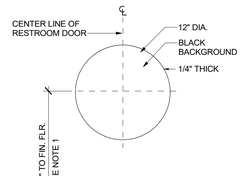
SIGN INSTALLATION — 10 — 1/2" = 1'-0"



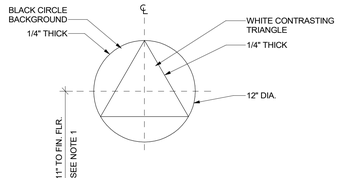
NOTE:
FOR BRAILLE REQUIREMENTS SEE: 13 / G-1.2

FOR MOUNTING REQUIREMENTS SEE: 10 / G-1.2

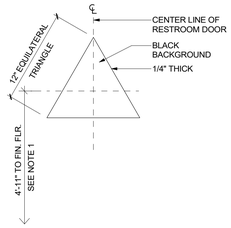
ACCESSIBLE ROOM SIGNS — 9 — 1/2" = 1'-0"



WOMEN RESTROOM - A
(SEE NOTE 2 & 5)



SINGLE OCCUPANT RESTROOM - C
(SEE NOTE 4 & 5)



MEN RESTROOM - B
(SEE NOTE 3 & 5)

NOTES

1. DOORWAYS LEADING TO TOILET ROOMS AND BATHING ROOMS SHALL BE IDENTIFIED BY A GEOMETRIC SYMBOL MOUNTED AT 58" MINIMUM AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE CENTERLINE OF THE SYMBOL. WHERE A DOOR IS PROVIDED THE SYMBOL SHALL BE MOUNTED WITHIN 1" OF THE VERTICAL CENTERLINE OF THE DOOR. CBC 11B-703.7.2.6
2. WOMEN'S TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, 1/4" THICK AND 12" IN DIAMETER. THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. CBC 11B-703.7.2.6.2
3. MEN'S TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE, 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. CBC 11B-703.7.2.6.1
4. SINGLE OCCUPANT TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH A VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12-INCH DIAMETER. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. CBC 11B-703.7.2.6.3
5. EDGES SHALL BE EASED OR ROUNDED AT 1/16-INCH MIN. OR CHAMFERED AT 1/8-INCH MAXIMUM. CBC 11B-703.7.2.6.4

RESTROOM GEOMETRIC SYMBOLS — 1 — 3/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:

ACCESSIBLE SIGNAGE STANDARDS

SHEET NUMBER:

G-1.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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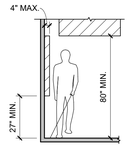
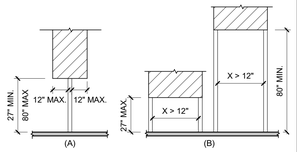
PROTRUSION LIMITS

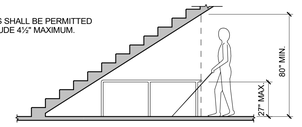


POST MOUNTED PROTRUDING OBJECTS

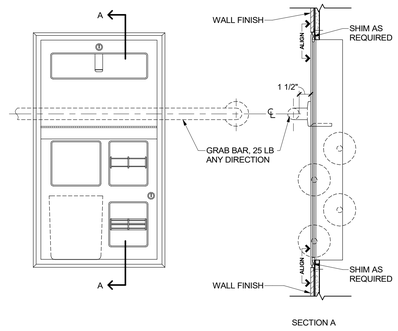


VERTICAL CLEARANCE

NOTE:
HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4½" MAXIMUM.

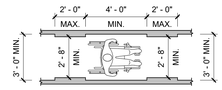


PROTRUDING OBJECTS | 4 | 1/4" = 1'-0"



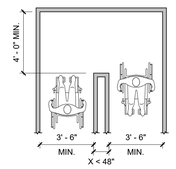
RECESSED SEAT-COVER DISPENSER | 7 | 1 1/2" = 1'-0"

CLEAR WIDTH OF AN ACCESSIBLE ROUTE

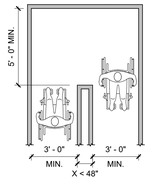


CLEAR WIDTH AT TURN

(A) 180 DEGREE TURN

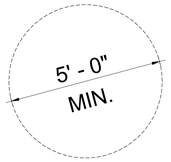


(B) 180 DEGREE TURN (EXCEPTION)

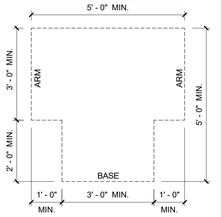


ACCESSIBLE CLEAR WIDTH REQUIREMENTS | 3 | 1/4" = 1'-0"

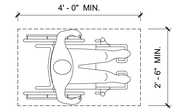
CIRCULAR TURNING SPACE



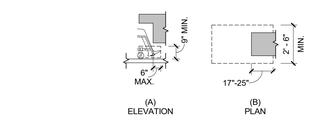
T-SHAPED TURNING SPACE



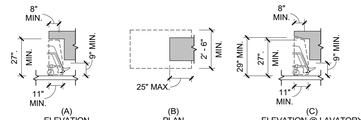
SIZE OF CLEAR FLOOR SPACE



CLEAR FLOOR/GROUND REQUIREMENTS | 1 | 1/2" = 1'-0"

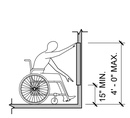


TOE CLEARANCE

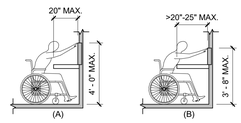


KNEE CLEARANCE

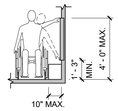
KNEE & TOE CLEARANCE | 6 | 1/4" = 1'-0"



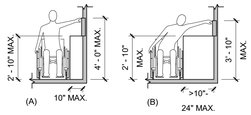
UNOBSTRUCTED FORWARD REACH



OBSTRUCTED HIGH FORWARD REACH



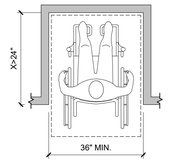
UNOBSTRUCTED HIGH SIDE REACH



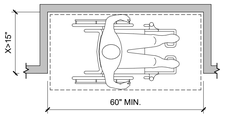
OBSTRUCTED HIGH SIDE REACH

ACCESSIBLE REACH REQUIREMENTS | 5 | 1/4" = 1'-0"

MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

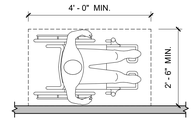


MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

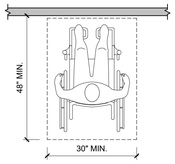


SIZE AND POSITION OF CLEAR FLOOR SPACE

(A) FORWARD



(B) PARALLEL



CLEAR FLOOR/GROUND REQUIREMENTS | 1 | 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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19520 Jamboree Road | Suite 100
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www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID ZORAS SMITH
C20495
EXP. 6-30-23
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:
ADDITIONAL ACCESSIBILITY DETAILS

SHEET NUMBER:
G-1.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

Y | N/A | RESPON. PARTY

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106,5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

Y | N/A | RESPON. PARTY

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE", The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Note: [N]
1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5–1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 4	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5–1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet *U*-value limits for "all other outdoor lighting".

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

Y | N/A | RESPON. PARTY

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating lanscscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER, [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503,1,1 and 503,1,2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0,04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID CORDON SMITH — C20495 — EXP. 5/31/23 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
CALGREEN COMPLIANCE FORMS

SHEET NUMBER:
G-2.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not delliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

□ □ **5.303.4 COMMERCIAL KITCHEN EQUIPMENT.**

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

□ □ **5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

□ □ **5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

□ □ **5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

□ □ **5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soilled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

□ □ **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

□ □ **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

□ □ **5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste Items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

□ □ **5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.** 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

□ □ **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

□ □ **5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over.** For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventillation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

□ □ **5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^{0} Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochloro/fluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^{3}/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

□ □ **5.503.1 FIREPLACES.** Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150, Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

□ □ **5.504.1 TEMPORARY VENTILATION.** The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

□ □ **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
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FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH IV
C20495
EXP. 5/31/2023
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:
CALGREEN COMPLIANCE FORMS

SHEET NUMBER:
G-2.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☐	☐	

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE,

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD,

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database,

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and Invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

Y	N/A	RESPON. PARTY
☐	☐	

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

Y	N/A	RESPON. PARTY
☐	☐	

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

Y	N/A	RESPON. PARTY
☐	☐	

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

Y	N/A	RESPON. PARTY
☐	☐	

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

Y	N/A	RESPON. PARTY
☐	☐	

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

Y	N/A	RESPON. PARTY
☐	☐	

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y	N/A	RESPON. PARTY
☐	☐	

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

Y	N/A	RESPON. PARTY
☐	☐	

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system Installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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ARCHITECTURE | PLANNING | INTERIOR DESIGN
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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — RONALD CORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

CALGREEN COMPLIANCE FORMS

SHEET NUMBER:

G-2.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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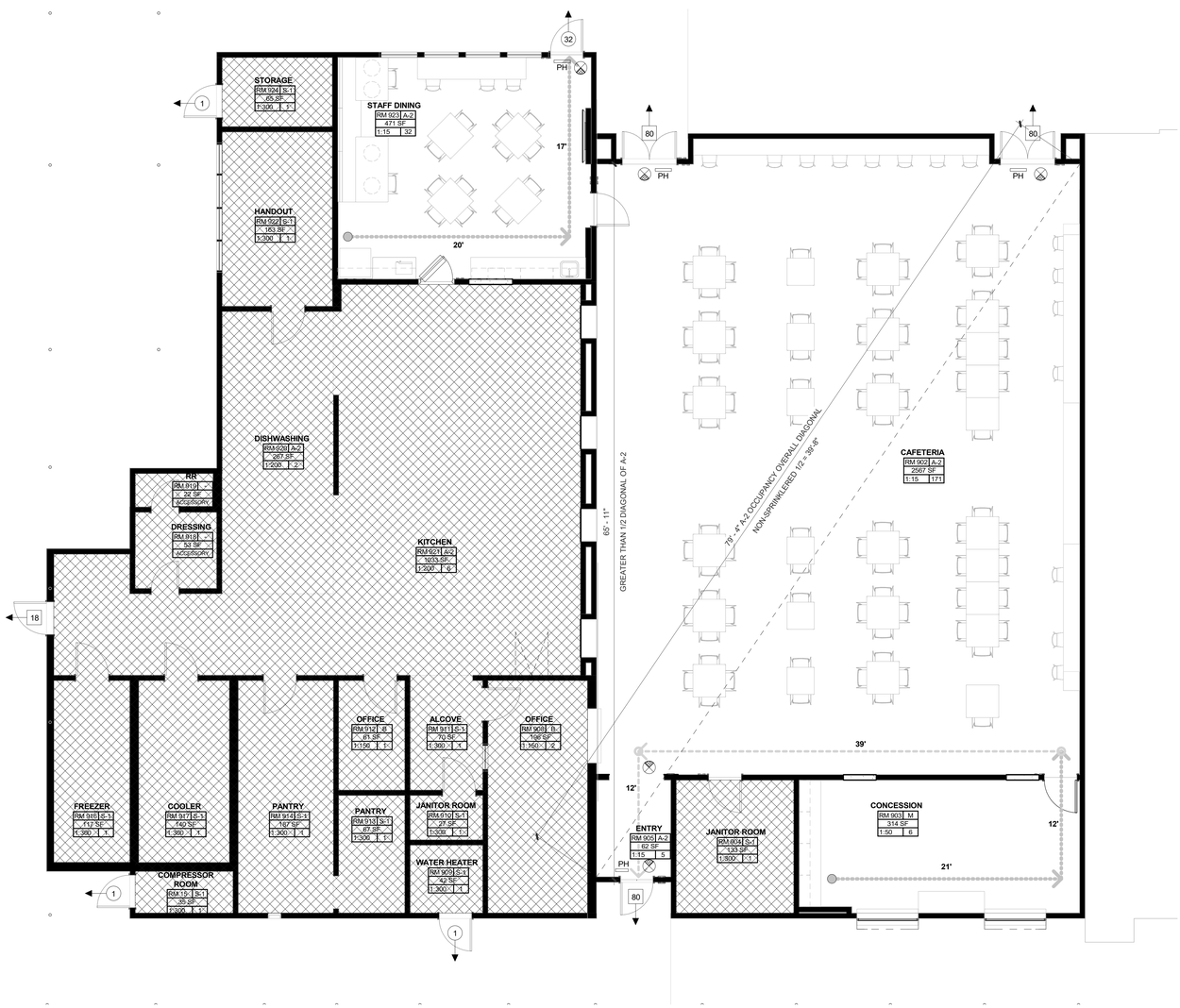
CODE ANALYSIS - CAFETERIA

Number	Name	Occupancy Type (CBC CH.3)	Area	Load Factor (CBC 1004.1.2)	Occupant Load	Exit Width Required (CBC 1005.3.2)
15	COMPRESSOR ROOM	S-1	35 SF	300 SF	1	0" - 0"
902	CAFETERIA	A-2	2,567 SF	15 SF	172	2" - 10 1/4"
903	CONCESSION	B	314 SF	150 SF	3	0" - 0 1/2"
904	JANITOR ROOM	S-1	133 SF	300 SF	1	0" - 0 1/4"
905	ENTRY	A-2	62 SF	15 SF	5	0" - 1"
908	OFFICE	B	196 SF	150 SF	2	0" - 0 1/4"
909	WATER HEATER	S-1	42 SF	300 SF	1	0" - 0 1/4"
910	JANITOR ROOM	S-1	27 SF	300 SF	1	0" - 0"
911	ALCOVE	S-1	70 SF	300 SF	1	0" - 0 1/4"
912	OFFICE	B	61 SF	300 SF	1	0" - 0 1/4"
913	PANTRY	S-1	67 SF	300 SF	1	0" - 0 1/4"
914	PANTRY	S-1	187 SF	300 SF	1	0" - 0 1/4"
916	FREEZER	S-1	117 SF	300 SF	1	0" - 0 1/4"
917	COOLER	S-1	140 SF	300 SF	1	0" - 0 1/4"
918	DRESSING	ACCESSORY	53 SF	0 SF		
919	RR	ACCESSORY	22 SF	0 SF		
920	DISHWASHING	A-2	267 SF	200 SF	2	0" - 0 1/4"
921	KITCHEN	A-2	1,033 SF	200 SF	6	0" - 1 1/4"
922	HANDOUT	S-1	163 SF	300 SF	1	0" - 0 1/4"
923	STAFF DINING	A-2	471 SF	15 SF	32	0" - 6 1/2"
924	STORAGE	S-1	65 SF	300 SF	1	0" - 0 1/4"
			6,091 SF		230	3" - 10"



CAFETERIA - LIFE SAFETY PLAN | 1 | 3/16" = 1'-0"

LEGEND

- COMMON PATH OF EGRESS TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- OCCUPANCY # XX — OCCUPANCY NUMBER
- WIDTH REQUIRED 0" — DOOR WIDTH REQUIRED
- WIDTH PROVIDED 0" — DOOR WIDTH PROVIDED
- 0 — INDIVIDUAL ROOM OCCUPANT LOAD
- 0 — COMBINED ROOM OCCUPANT LOAD
- ROOM NAME — ROOM NAME
- ROOM NUMBER: RM XXX | X-1 — OCCUPANCY GROUP
- X,XXX SF — SQUARE FOOTAGE
- OCCUPANT LOAD FACTOR: 1: XXX | XX — OCCUPANT LOAD
- AREA NOT INCLUDED IN SCOPE OF WORK, (N.I.C.)
- (E) WALL TO REMAIN
- WOOD STUD WALL: TYPE A U.O.N.
- PH — PANIC HARDWARE - SEE DOOR SCHEDULE AND HARDWARE GROUPS
- EXIT SIGN - SEE CEILING AND ELECTRICAL PLANS

GENERAL NOTES

1. SEE GENERAL SHEETS FOR ACCESSIBLE SIGNAGE REQUIREMENTS AND NOTES.
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED NOT LESS THAN 30" NOR MORE THAN 44" A.F.F. AND SHALL BE OPERABLE WITH A SINGLE EFFORT NOT REQUIRING GRASPING OF THE OPENING HARDWARE.
3. THE FORCE FOR INTERIOR DOORS WITHOUT CLOSERS SHALL NOT EXCEED 5 POUNDS. ALLOWABLE CLOSURE PRESSURE FOR OTHER DOORS SHALL BE:
   1.5 LBS. FIRE DOORS
   8.5 LBS. EXTERIOR DOORS
4. THRESHOLDS SHALL NOT EXCEED 1/2" IN TOTAL HEIGHT WITH A 1/4" MAXIMUM VERTICAL EDGE AND A CHANGE IN LEVEL NOT GREATER THAN 1:2.
5. THE BOTTOM 10" OF DOORS, EXCEPT AUTOMATIC AND SLIDING DOORS, SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE.
6. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. EXIT DOORS SHALL BE EQUIPPED WITH SINGLE ACTION NO-KNOWLEDGE HARDWARE. TWO ACTIONS SHALL NOT BE ACCEPTABLE.
7. ELECTRONIC STRIKE MUST RELEASE ON ACTIVATION OF FIRE ALARM PER CBC. ALSO TWO WAY COMMUNICATION SYSTEM PER SAME.
8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SITE VERIFY ALL CLEARANCES IN PLENUM AREA AND ADVISE IF MECHANICAL EQUIPMENT SHOULD BE RELOCATED.
9. FIRE ALARM SYSTEM, SMOKE DETECTION, AND LIFE SAFETY EQUIPMENT AS REQUIRED BY CODE SHALL MATCH BUILDING STANDARD.
10. PROVIDE NEW SEMI-RECESSED FIRE EXTINGUISHER IN CABINET THROUGHOUT, AS INDICATED ON DRAWINGS AND PER LOCAL CODES.
11. FINAL LOCATION OF FIRE EXTINGUISHERS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

CODE ANALYSIS

CONSTRUCTION TYPE	
TYPE	V-B
SPRINKLERED	NO
MAIN OCCUPANCY	A-2
ANCILLARY OCCUPANCIES (CLASSIFIED FOR EGRESS)	B, S-1, M
MIXED OCCUPANCY SEPARATION TYPE PER CBC 508	NON SEPARATED OCCUPANCIES (CBC 508.3)

NONSEPARATED OCCUPANCIES PER 508.3	GROUP S-1	GROUP B	GROUP A-2
ALLOWABLE HEIGHT (# OF STORIES)	40FT (1)	40 FT (2)	40 FT (1)
ALLOWABLE AREA (SQUARE FEET) Aa = At + (NS x If) If = [F/P - 0.25] W/30 If = [349/349 - 0.25] 30/30 If = 0.75	15,750 SF 9000 + (9000 x .75)	15,750 SF 9000 + (9000 X .75)	10,500 SF 6000 + (6000 x .75)

NONSEPARATED BUILDING ALLOWABLE LIMITED TO A-2 OCCUPANCY
1 STORY 10,500 SF TOTAL BUILDING AREA

ACTUAL BUILDING	
1 STORIES	
1ST FLOOR	6,439 SF
TOTAL BUILDING	6,439 SF

FIRE RESISTANCE RATING (TABLE 601)	
PRIMARY STRUCTURAL FRAME	0 HR
BEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
NON BEARING WALLS & PARTITIONS	
EXTERIOR	0 HR*
INTERIOR	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR
*1 HR WHERE REQUIRED BY TABLE 602	

SAFE DISPERSAL AREA (1028.5)	
STUDENT AND FACULTY POPULATION = 3,000 5 SQ. FT PER OCCUPANT	15,000 SF

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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19520 Jamboree Road | Suite 100
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FILLMORE HIGH SCHOOL - MODERNIZATION
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555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN SMITH — C20095 — EXP: 01/01 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

CODE ANALYSIS - CAFETERIA

SHEET NUMBER:

G-5.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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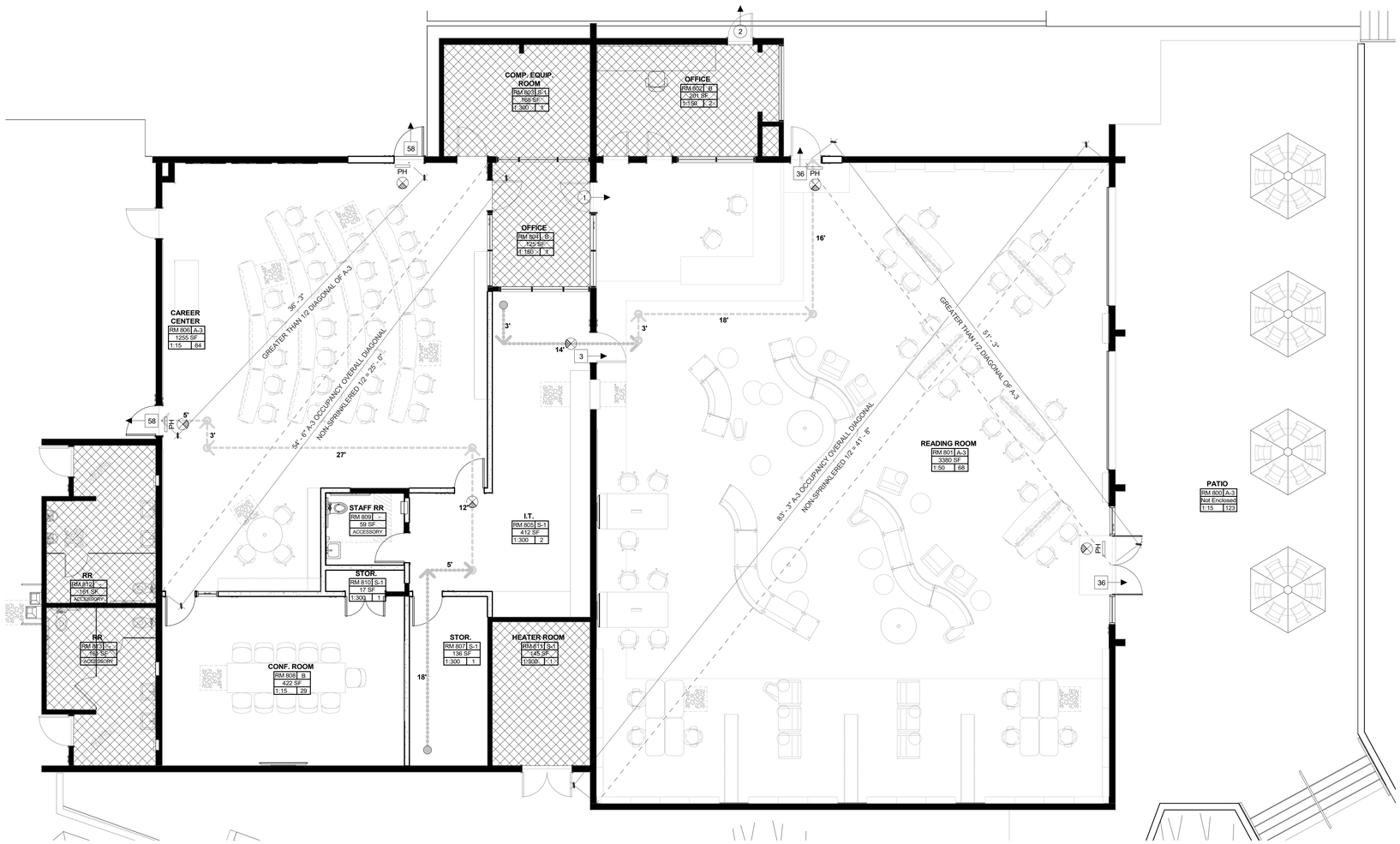
CODE ANALYSIS - LIBRARY

Number	Name	Occupancy Type (CBC CH.3)	Area	Load Factor (CBC 1004.1.2)	Occupant Load	Exit Width Required (CBC 1005.3.2)
801	READING ROOM	A-3	3,380 SF	50 SF	68	1' - 1 1/2"
802	OFFICE	B	201 SF	150 SF	2	0' - 0 1/4"
803	COMP. EQUIP. ROOM	S-1	168 SF	300 SF	1	0' - 0 1/4"
804	OFFICE	B	125 SF	150 SF	1	0' - 0 1/4"
805	I.T.	S-1	412 SF	300 SF	2	0' - 0 1/4"
806	CAREER CENTER	A-3	1,255 SF	15 SF	84	1' - 4 3/4"
807	STOR.	S-1	136 SF	300 SF	1	0' - 0 1/4"
808	CONF. ROOM	B	422 SF	15 SF	29	0' - 5 3/4"
809	STAFF RR	ACCESSORY	59 SF	0 SF		
810	STOR.	S-1	17 SF	300 SF	1	0' - 0"
811	HEATER ROOM	S-1	145 SF	300 SF	1	0' - 0 1/4"
812	RR	ACCESSORY	161 SF	0 SF		
813	RR	ACCESSORY	161 SF	0 SF		
			6,640 SF		190	3' - 2"



LEGEND

- COMMON PATH OF EGRESS TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- OCCUPANCY # XX — OCCUPANCY NUMBER
- WIDTH REQUIRED 0" — DOOR WIDTH REQUIRED
- WIDTH PROVIDED 0" — DOOR WIDTH PROVIDED
- 0 — INDIVIDUAL ROOM OCCUPANT LOAD
- 0 — COMBINED ROOM OCCUPANT LOAD
- ROOM NAME — ROOM NAME
- ROOM NUMBER: RM XXX | X-1 — OCCUPANCY GROUP
- X,XXX SF — SQUARE FOOTAGE
- OCCUPANT LOAD FACTOR: 1: XXX | XX — OCCUPANT LOAD
- AREA NOT INCLUDED IN SCOPE OF WORK, (N.I.C.)
- (E) WALL TO REMAIN
- WOOD STUD WALL: TYPE A U.O.N.
- PH — PANIC HARDWARE - SEE DOOR SCHEDULE AND HARDWARE GROUPS
- EXIT SIGN - SEE CEILING AND ELECTRICAL PLANS

GENERAL NOTES

1. SEE GENERAL SHEETS FOR ACCESSIBLE SIGNAGE REQUIREMENTS AND NOTES.
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED NOT LESS THAN 30" NOR MORE THAN 44" A.F.F. AND SHALL BE OPERABLE WITH A SINGLE EFFORT NOT REQUIRING GRASPING OF THE OPENING HARDWARE.
3. THE FORCE FOR INTERIOR DOORS WITHOUT CLOSERS SHALL NOT EXCEED 5 POUNDS. ALLOWABLE CLOSURE PRESSURE FOR OTHER DOORS SHALL BE:
   1.5 LBS. FIRE DOORS
   8.5 LBS. EXTERIOR DOORS
4. THRESHOLDS SHALL NOT EXCEED 1/2" IN TOTAL HEIGHT WITH A 1/4" MAXIMUM VERTICAL EDGE AND A CHANGE IN LEVEL NOT GREATER THAN 1:2.
5. THE BOTTOM 10" OF DOORS, EXCEPT AUTOMATIC AND SLIDING DOORS, SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE.
6. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. EXIT DOORS SHALL BE EQUIPPED WITH SINGLE ACTION NO-KNOWLEDGE HARDWARE. TWO ACTIONS SHALL NOT BE ACCEPTABLE.
7. ELECTRONIC STRIKE MUST RELEASE ON ACTIVATION OF FIRE ALARM PER CBC. ALSO TWO WAY COMMUNICATION SYSTEM PER SAME.
8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SITE VERIFY ALL CLEARANCES IN PLENUM AREA AND ADVISE IF MECHANICAL EQUIPMENT SHOULD BE RELOCATED.
9. FIRE ALARM SYSTEM, SMOKE DETECTION, AND LIFE SAFETY EQUIPMENT AS REQUIRED BY CODE SHALL MATCH BUILDING STANDARD.
10. PROVIDE NEW SEMI-RECESSED FIRE EXTINGUISHER IN CABINET THROUGHOUT, AS INDICATED ON DRAWINGS AND PER LOCAL CODES.
11. FINAL LOCATION OF FIRE EXTINGUISHERS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

CODE ANALYSIS

CONSTRUCTION TYPE	
TYPE	V-B
SPRINKLERED	NO
MAIN OCCUPANCY	A-3
ANCILLARY OCCUPANCIES (CLASSIFIED FOR EGRESS)	A-3, B, S-1
MIXED OCCUPANCY SEPARATION TYPE PER CBC 508	NON SEPARATED OCCUPANCIES (CBC 508.3)

NONSEPARATED OCCUPANCIES PER 508.3	GROUP S-1	GROUP B	GROUP A-3
ALLOWABLE HEIGHT (# OF STORIES)	40FT (1)	40 FT (2)	40 FT (1)
ALLOWABLE AREA (SQUARE FEET) Aa = At + (NS x If) If = [F/P - 0.25] W/30 If = [349/349 - 0.25] 30/30 If = 0.75	15,750 SF 9000 + (9000 x .75)	15,750 SF 9000 + (9000 X .75)	10,500 SF 6000 + (6000 x .75)

NONSEPARATED BUILDING ALLOWABLE LIMITED TO A-3 OCCUPANCY
1 STORY 10,500 SF TOTAL BUILDING AREA

ACTUAL BUILDING	
1 STORIES	
1ST FLOOR	6,640 SF
TOTAL BUILDING	6,640 SF

FIRE RESISTANCE RATING (TABLE 601)	
PRIMARY STRUCTURAL FRAME	0 HR
BEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
NON BEARING WALLS & PARTITIONS	
EXTERIOR	0 HR*
INTERIOR	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR
*1 HR WHERE REQUIRED BY TABLE 602	

SAFE DISPERSAL AREA (1028.5)	
STUDENT AND FACULTY POPULATION = 3,000 5 SQ. FT PER OCCUPANT	15,000 SF

LIBRARY - LIFE SAFETY PLAN — 1 — 3/16" = 1'-0"

IDENTIFICATION STAMP
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APP: 03-121233 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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DSA BACK CHECK 04/23/2021
DSA BACK CHECK 08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
CODE ANALYSIS - LIBRARY

SHEET NUMBER:
G-5.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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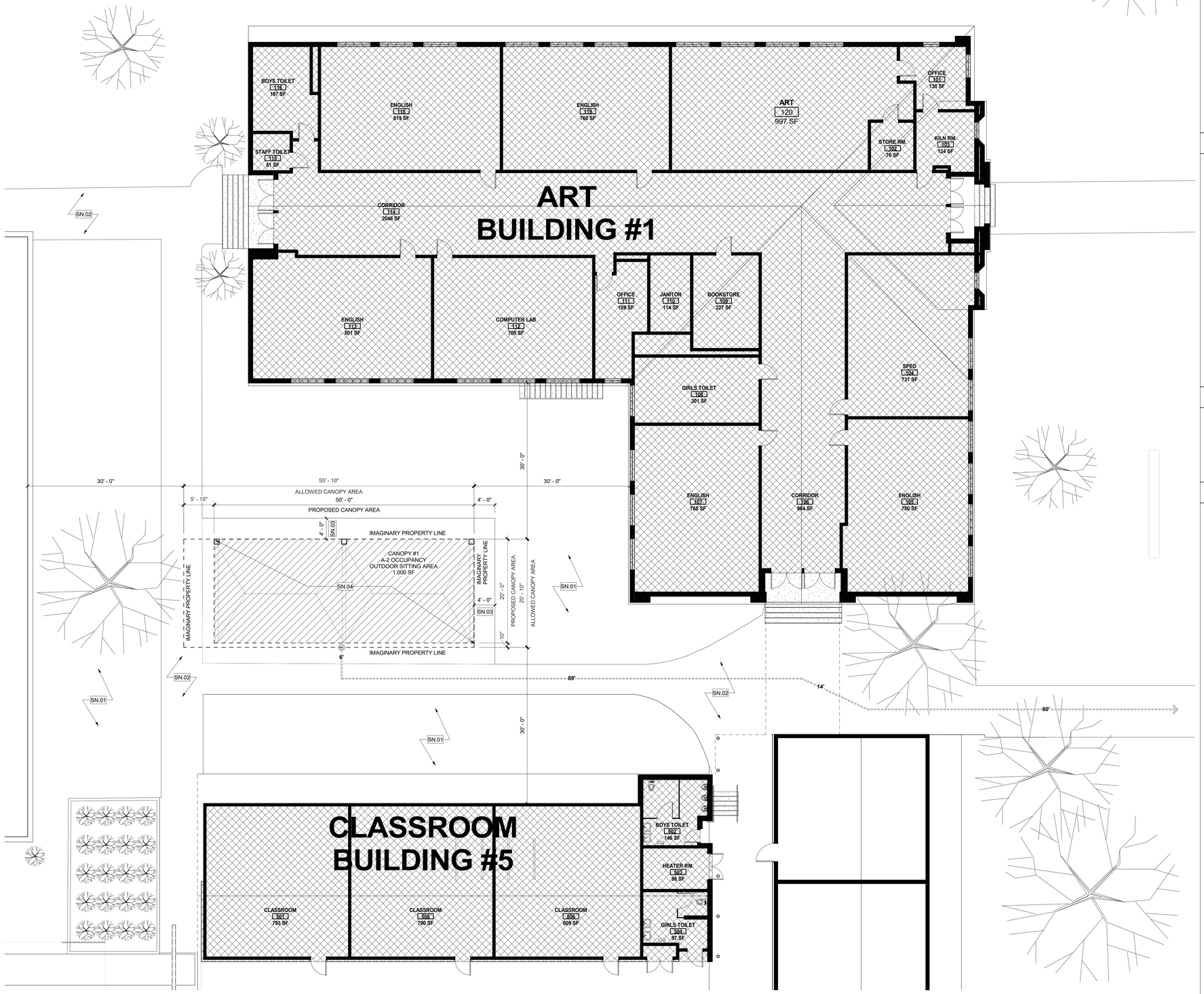

LEGEND

- COMMON PATH OF EGRESS TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- OCCUPANCY # XX — OCCUPANCY NUMBER
- WIDTH REQUIRED 0" — DOOR WIDTH REQUIRED
- WIDTH PROVIDED 0" — DOOR WIDTH PROVIDED
- (0) INDIVIDUAL ROOM OCCUPANT LOAD
- [0] COMBINED ROOM OCCUPANT LOAD
- ROOM NAME — ROOM NAME
- ROOM NUMBER: RM XXX | X-1 — OCCUPANCY GROUP
- X,XXX SF — SQUARE FOOTAGE
- OCCUPANT LOAD FACTOR: 1: XXX | XX — OCCUPANT LOAD
- AREA NOT INCLUDED IN SCOPE OF WORK, (N.I.C.)
- (E) WALL TO REMAIN
- WOOD STUD WALL: TYPE A U.O.N.
- PANIC HARDWARE - SEE DOOR SCHEDULE AND HARDWARE GROUPS
- EXIT SIGN - SEE CEILING AND ELECTRICAL PLANS

GENERAL NOTES

1. SEE GENERAL SHEETS FOR ACCESSIBLE SIGNAGE REQUIREMENTS AND NOTES.
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED NOT LESS THAN 30" NOR MORE THAN 44" A.F.F. AND SHALL BE OPERABLE WITH A SINGLE EFFORT NOT REQUIRING GRASPING OF THE OPENING HARDWARE.
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11. FINAL LOCATION OF FIRE EXTINGUISHERS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	EXISTING LANDSCAPE
SN.02	EXISTING HARDSCAPE
SN.03	NEW HARDSCAPE TO MATCH EXISTING.
SN.04	NEW DSA PRE-APPROVED CANOPY. SEE SHEETS G-6.1 THROUGH G-6.4.

CODE ANALYSIS

CONSTRUCTION TYPE	CANOPY
TYPE	V-B
SPRINKLERED	NO
MAIN OCCUPANCY	A-2
ANCILLARY OCCUPANCIES	-
MIXED OCCUPANCY SEPARATION TYPE PER CBC 508	NON SEPARATED (CBC 508.3)
NONSEPARATED OCCUPANCIES PER 508.3	
	GROUP A-2
ALLOWABLE HEIGHT (# OF STORIES)	40 FT (1)
ALLOWABLE AREA PER STORY (SQUARE FEET)	10,500
ALLOWABLE AREA (SQUARE FEET) Aa = At + (NS x If) If = [F/P - 0.25] W/30 If = [349/349 - 0.25] 30/30 If = 0.75	9000 + (9000 x .75)
NONSEPARATED BUILDING ALLOWABLE LIMITED TO	
1 STORIES 10,500 TOTAL BUILDING AREA	
ACTUAL BUILDING	**CANOPY**
1 STORIES	
1ST FLOOR	1,000 SF
TOTAL BUILDING	1,000 SF
FIRE RESISTANCE RATING (TABLE 601)	**CANOPY**
PRIMARY STRUCTURAL FRAME	0 HR
BEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
NON BEARING WALLS & PARTITIONS	
EXTERIOR	0 HR*
INTERIOR	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR
*1 HR WHERE REQUIRED BY TABLE 602	
EXTERIOR WALL FIRE RESISTANCE (TABLE 602)	
FIRE SEPARATION DISTANCE:	REQ. RATING FOR OCCUPANCY "A-2"
0' TO LESS THAN 30'	1 HR
30' AND GREATER	0 HR
EXTERIOR WALL OPENINGS (TABLE 705.8)	
FIRE SEPARATION DISTANCE:	MAXIMUM OPEN AREA:
20' TO LESS THAN 25' - UNPROTECTED, NONSPRINKLERED	45%
25' TO LESS THAN 30' - UNPROTECTED, NONSPRINKLERED	75%
30' OR GREATER - UNPROTECTED, NONSPRINKLERED	NO LIMIT
SAFE DISPERSAL AREA (1028.5)	
STUDENT AND FACULTY POPULATION = 3,000 5 SQ. FT PER OCCUPANT	15,000 SF

DSA INFORMATION

DSA PC (PRE-APPROVED) JOINED FULL CANTI HIP CANOPY BY USA SHADE.

DSA PC#: 04-117140

MODEL #: DSA3022060-16

IDENTIFICATION STAMP
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APP: 03-121233 INC:
REVIEWED FOR
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DATE: 04/20/2022

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ISSUED FOR:

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN SMITH III STATE OF CALIFORNIA
C20495
EXP. 11/21
Renewal Date

SHEET TITLE:

CODE ANALYSIS - BLDG#1 CANOPY

SHEET NUMBER:

G-5.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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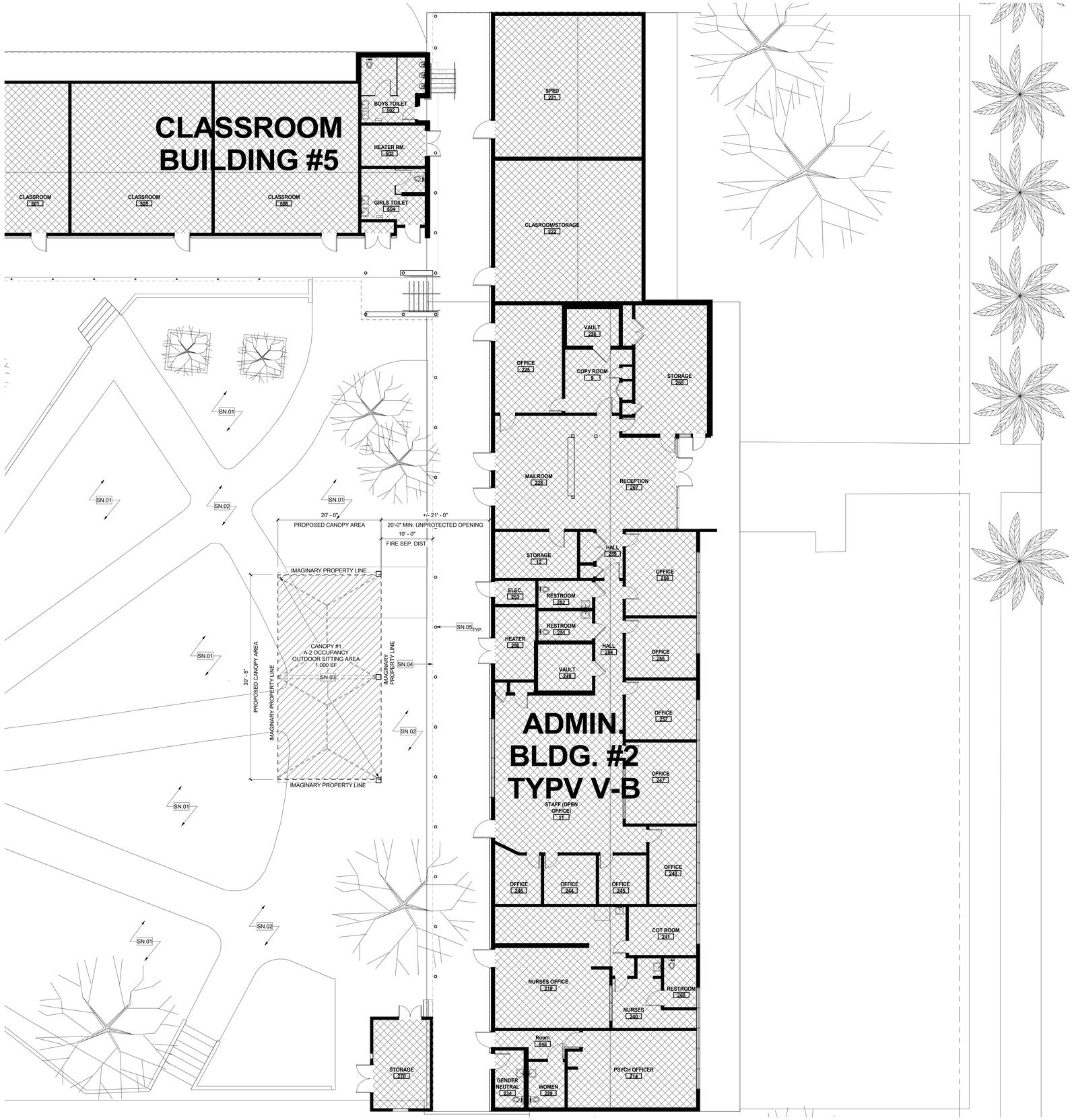

LEGEND

COMMON PATH OF EGRESS TRAVEL

EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY #	XX
WIDTH REQUIRED	0"
WIDTH PROVIDED	0"

OCCUPANCY NUMBER
DOOR WIDTH REQUIRED
DOOR WIDTH PROVIDED

INDIVIDUAL ROOM OCCUPANT LOAD

COMBINED ROOM OCCUPANT LOAD

ROOM NAME
ROOM NUMBER — RM XXX | X-1 — OCCUPANCY GROUP
X,XXX SF — SQUARE FOOTAGE
OCCUPANT LOAD FACTOR — 1: XXX | XX — OCCUPANT LOAD

AREA NOT INCLUDED IN SCOPE OF WORK, (N.I.C.)

(E) WALL TO REMAIN

WOOD STUD WALL: TYPE A U.O.N.

GENERAL NOTES

PANIC HARDWARE - SEE DOOR SCHEDULE AND HARDWARE GROUPS

EXIT SIGN - SEE CEILING AND

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SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	EXISTING LANDSCAPE
SN.02	EXISTING HARDSCAPE
SN.03	NEW DSA PRE-APPROVED CANOPY. SEE SHEETS G-6.1 THROUGH G-6.4.
SN.04	EDGE OF EXITING FASCIA.
SN.05	EXISTING COLUMNS/POSTS.

CODE ANALYSIS

CONSTRUCTION TYPE	CANOPY
TYPE	V-B
SPRINKLERED	NO
MAIN OCCUPANCY	A-2
ANCILLARY OCCUPANCIES	-
MIXED OCCUPANCY SEPARATION TYPE PER CBC 508	NON SEPARATED (CBC 508.3)
NONSEPARATED OCCUPANCIES PER 508.3	
	GROUP A-2
ALLOWABLE HEIGHT (# OF STORIES)	40 FT (1)
ALLOWABLE AREA PER STORY (SQUARE FEET)	10,500
ALLOWABLE AREA (SQUARE FEET) Aa = At + (NS x If) If = [F/P - 0.25] W/30 If = [349/349 - 0.25] 30/30 If = 0.75	9000 + (9000 x .75)
NONSEPARATED BUILDING ALLOWABLE LIMITED TO	
1 STORIES 10,500 TOTAL BUILDING AREA	
ACTUAL BUILDING	**CANOPY**
1 STORIES	
1ST FLOOR	1,000 SF
TOTAL BUILDING	1,000 SF
FIRE RESISTANCE RATING (TABLE 601)	**CANOPY**
PRIMARY STRUCTURAL FRAME	0 HR
BEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
NON BEARING WALLS & PARTITIONS	
EXTERIOR	0 HR*
INTERIOR	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR
*1 HR WHERE REQUIRED BY TABLE 602	
EXTERIOR WALL FIRE RESISTANCE (TABLE 602)	
FIRE SEPARATION DISTANCE:	REQ. RATING FOR OCCUPANCY "A-2"
0' TO LESS THAN 30'	1 HR
30' AND GREATER	0 HR
EXTERIOR WALL OPENINGS (TABLE 705.8)	
FIRE SEPARATION DISTANCE:	MAXIMUM OPEN AREA:
20' TO LESS THAN 25' - UNPROTECTED, NONSPRINKLERED	45%
25' TO LESS THAN 30' - UNPROTECTED, NONSPRINKLERED	75%
30' OR GREATER - UNPROTECTED, NONSPRINKLERED	NO LIMIT
SAFE DISPERSAL AREA (1028.5)	
STUDENT AND FACULTY POPULATION = 3,000 5 SQ. FT PER OCCUPANT	15,000 SF

DSA INFORMATION

DSA PC (PRE-APPROVED) JOINED FULL CANTI HIP CANOPY BY USA SHADE.

DSA PC#: 04-117140

MODEL #: DSA3022060-16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
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DATE: 04/20/2022

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DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID J. SMITH — C20495 — EXP. 5/31 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

CODE ANALYSIS - BLDG#2 CANOPY

SHEET NUMBER:

G-5.4

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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FABRIC SHADE STRUCTURE
DSA P.C. 04-117140

SITE SPECIFIC APPLICATION SITE PLAN SHALL INCLUDE:

1. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
2. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
3. PROVIDE CODE ANALYSIS INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTION (V-B). INDICATE OCCUPANT LOAD FACTOR per 2016 CBC, SECTION 1004.
4. INDICATE LOCATIONS OF FIRE EXTINGUISHER WITHIN 75 FEET.
5. SHOW LOCATIONS OF AUDIBLE FIRE ALARM.
6. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20' FOR SNOW LOAD MODEL (ASCE 7-10).
7. ACTUAL SITE ELEVATION (FT.) TO DETERMINE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-10 (FOR SNOW LOAD MODEL).
8. FOR RECESSED BASE PLATE (RBP) OPTION: ARCHITECT/ENGINEER OF RECORD TO SPECIFY THE LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST), AS DEFINED IN AISC 341-10 SECTION A.3.4b, A4.1 AND A4.2 PER NOTE ON EACH INDIVIDUAL MODEL ENGINEERING DRAWING WHICH RELATES TO DEMAND CRITICAL WELD AND "L.A.S.T." TEMPERATURE (EITHER STRUCTURAL STEEL NOTE #14).
9. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF SHADE STRUCTURE.
10. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B & C" RESPECTIVELY IN ASCE 19-10, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
11. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USA SHADE & Fabric Structures®

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

DSA PC APPLICATION STAMP:

FILE NUMBER: PC-SS
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018

CODE UPDATE FOR 04-113245

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

GENERAL NOTES

SITE SPECIFIC APPLICATION TITLE SHEET SHALL INCLUDE:

APPLICABLE CODES

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. *
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. *
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS & THEIR APPURTENANCES	2016 EDITION
NFPA 25	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	ICC STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRAND STANDS	2012 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS	2005 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2003 EDITION
UL521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.

ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)

BUILDING CODE DATA

UNIT SELECTION AND DESCRIPTION

DRAWING NUMBER	DRAWING DESCRIPTION	STRUCTURE TYPE	MAX SIZE	MODEL NUMBER
P.C. T-1.0	P.C. TITLE SHEET			
P.C. T-2.0	DSA 103 FORMS			
1.1-1000	PRODUCT INFORMATION	HIP	20 X 30	DSA4012030-16
1.2-2000	REACTIONS	HIP	20 X 30	DSA4012030-16
2.1-1000	PRODUCT INFORMATION	HIP	30 X 30	DSA4013030-16
2.2-2000	REACTIONS	HIP	30 X 30	DSA4013030-16
3.1-1000	PRODUCT INFORMATION	HIP	30 X 40	DSA4013040-16
3.2-2000	REACTIONS	HIP	30 X 40	DSA4013040-16
4.1-1000	PRODUCT INFORMATION	HIP (20# SNOW LOAD)	20 X 30	DSA401S2030-16
4.2-2000	REACTIONS	HIP (20# SNOW LOAD)	20 X 30	DSA401S2030-16
5.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14 X 14	DSA1031414-16
5.2-2000	REACTIONS	SINGLE POST PYRAMID	14 X 14	DSA1031414-16
6.1-1000	PRODUCT INFORMATION	MARINER	30 X 30	DSA4073030-16
6.2-2000	REACTIONS	MARINER	30 X 30	DSA4073030-16
7.1-1000	PRODUCT INFORMATION	JOINED MARINER	30 X 200	DSA407J3060-16
7.2-2000	REACTIONS	JOINED MARINER	30 X 200	DSA407J3060-16
8.1-1000	PRODUCT INFORMATION	QUAD MARINER	60 X 60	DSA407Q6060-16
8.2-2000	REACTIONS	QUAD MARINER	60 X 60	DSA407Q6060-16
9.1-1000	PRODUCT INFORMATION	FULL CANTILEVER	20 X 30	DSA2022030-16
9.2-2000	REACTIONS	FULL CANTILEVER	20 X 30	DSA2022030-16
10.1-1000	PRODUCT INFORMATION	FULL CANTILEVER JOINED	20 X 300	DSA3022060-16
10.2-2000	REACTIONS	FULL CANTILEVER JOINED	20 X 300	DSA3022060-16
11.1-1000	PRODUCT INFORMATION	TRI TRUSS CANTILEVER	20 X 30	DSA2062030-16
11.2-2000	REACTIONS	TRI TRUSS CANTILEVER	20 X 30	DSA2062030-16
12.1-1000	PRODUCT INFORMATION	TRI TRUSS CANTILEVER JOINED	20 X 300	DSA3052060-16
12.2-2000	REACTIONS	TRI TRUSS CANTILEVER JOINED	20 X 300	DSA3052060-16
13.1-1000	PRODUCT INFORMATION	THREE POINT SAILS	30 X 200	DSA30730-16
13.2-2000	REACTIONS	THREE POINT SAILS	30 X 200	DSA30730-16
14.1-1000	PRODUCT INFORMATION	FOUR-POINT SAILS	20 X 300	DSA4182020-16
14.2-2000	REACTIONS	FOUR-POINT SAILS	20 X 300	DSA4182020-16
15.1-1000	PRODUCT INFORMATION	FOUR POINT SAILS	30 X 200	DSA4183030-16
15.2-2000	REACTIONS	FOUR POINT SAILS	30 X 200	DSA4183030-16

SHEET INDEX - P.C. DRAWINGS

HIGGINSON ARCHITECTS INCORPORATED
707 Brookside Avenue
Redlands, CA 92373
(909)375-3030
www.haarchinc.com

ARCHITECT OF RECORD

LICENSED ARCHITECT DAVID HIGGINSON NO.C 19168 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:19:20 AM

Mark Lowe, S.E.
Structural Engineer
19471 Misty Ridge Lane
Trabuco Canyon, California 923679
949-400-1265
malowe@me.com

REGISTERED PROFESSIONAL ENGINEER ALBERT MARK LOWE No. 3083 STRUCTURAL STATE OF CALIFORNIA
8/10/2018

ENGINEER OF RECORD

SCALE: AS NOTED
DRAWING SIZE:

SITE PROJECT NAME: Fillmore High School
DISTRICT/OWNER: Fillmore U.S.D.
LOCATON/ADDRESS: 555 Central Ave Fillmore, CA 93015

DESCRIPTION	DATE	DRW	CHK	ENG
Eng. By :	DWH			08/07/18
Design By :	DWH			08/07/18
Approved By :	DWH			08/07/18

DRAWING DESCRIPTION: P.C. TITLE SHEET
DWG.
SHEET P.C. T-1.0
REV.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA PLAN CHECK 01/26/2021
DSA BACK CHECK 04/23/2021
DSA BACK CHECK 08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN HIGGINSON C20495 EXP. 5/31/ Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
SHADE STRUCTURE PC# 04-117140

SHEET NUMBER:
G-6.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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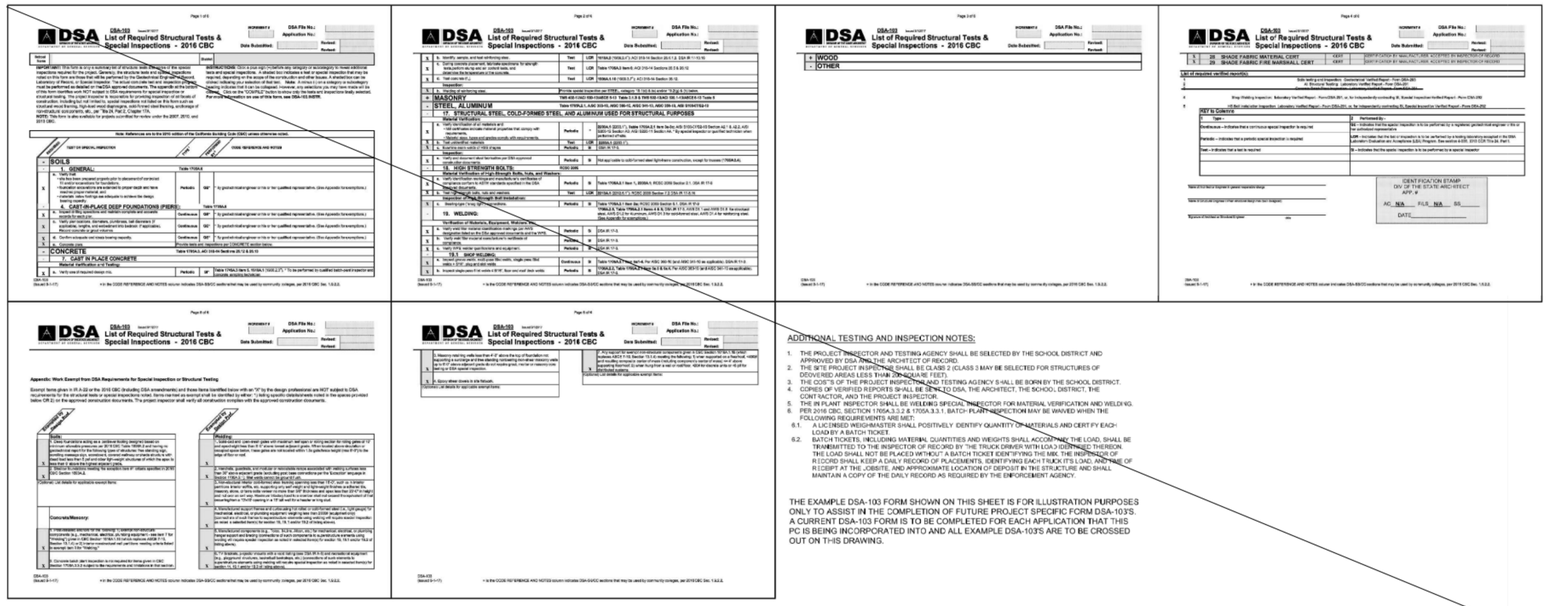
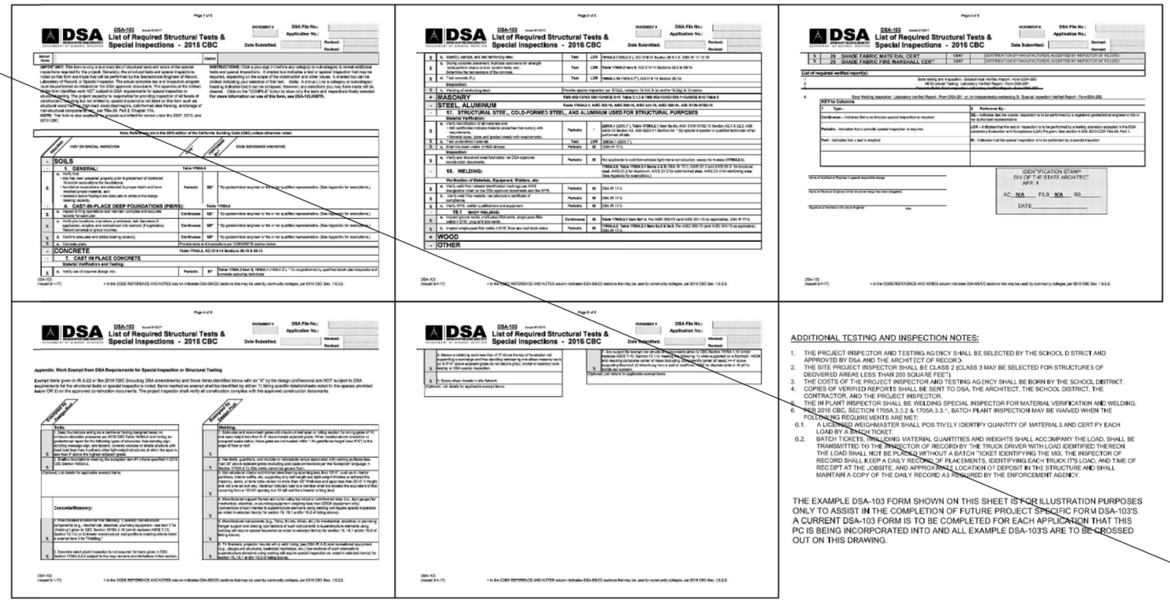


SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR CANTILEVER AND SINGLE POST UNITS | --- | 1



SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR ALL UNITS EXCEPT CANITLEVER AND SINGLE POST | --- | 2

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

DSA PC APPLICATION STAMP:
FILE NUMBER: PC-SS
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC__DF_ FLS_DS_ SS_VN_
DATE 08/14/2018

CODE UPDATE FOR 04-113245

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A seperate project application for construction is required.

SCALE: AS NOTED
DRAWING SIZE:

LICENSED ARCHITECT DAVID HIGGINSON NO.C19408 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:19:44 AM

HIGGINSON ARCHITECTS INCORPORATED
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ARCHITECT

REGISTERED PROFESSIONAL ENGINEER MARK LOWE No. 20624 STRUCTURAL STATE OF CALIFORNIA
8/10/2018

Mark Lowe, S.E.
Structural Engineer
19471 Misty Ridge Lane
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malowe@me.com

ENGINEER

DESCRIPTION	DATE	DRW	CHK	ENG
SITE PROJECT NAME: Fillmore High School				
DISTRICT/OWNER: Fillmore U.S.D.				
LOCATON/ADDRESS: 555 Central Ave Fillmore, CA 93015				
REV				
Eng. By :	DWH	08/07/18		
Design By :	DWH	08/07/18		
Approved By :	DWH	08/07/18		

DRAWING DESCRIPTION:
DSA 103 FORMS

DWG.

SHEET P.C. T-2.0

REV.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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ISSUED FOR:

DSA PLAN CHECK	01/26/2021
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REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN HIGGINSON C20495 EXP. 10-31-19 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
SHADE STRUCTURE REFERENCE DRAWINGS

SHEET NUMBER:
G-6.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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GENERAL NOTES

DESIGN LOADS

BUILDING CODE	CBC 2016 (BASED ON IBC 2015)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH (3-Sec. Gust); EXPOSURE C; TOPOGRAPHIC FACTOR , Kzt = 1.0

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2016 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2016, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2016, ASCE 7-10, AISC 360-10, AISC 341-10, ACI 318-14, ASCE 55-10 & ASCE 19-10

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2016 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2016 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-10: GRADE "B", IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE B, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 46,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS
ROUND PIPE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. EITHER SMAW OR GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, FYS = 60 KSI, FS = 95KSI ,ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2. REFERING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS.

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 GRADE BD. ALL NUTS SHALL COMPLY WITH ASTM A-563 GRADE C. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

13.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS: - PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

14.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15.- COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION. ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329), OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE TESTED PER CBC 2016 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT, WATER/CEMENT RATIO OF 0.45, PER ACI 318-14 CHAPTER 5. REINFORCING STEEL TO BE Fy= 60000 PSI , MIN. GR. 60

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED). ANCHOR BOLT'S EMBEDMENT NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4" 30 IN (MINIMUM EMBEDMENT)

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD. OR OTHER COMPANY WHO CAN MANUFACTURE FABRIC, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS.

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHALL TO DSA AT SITE SPECIFIC INSTALLATION.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FABRICS SAMPLES OF THE SAME MATERIAL WHICH ARE MAINTAINED AT THE PROJECTS SITE SHALL BE TESTED TO BE IN COMPLIANCE WITH ASTM D5034 AND D2261. THE ANNUAL TESTING ON THE APPROVED PLANS SHALL BE COMPARED TO THE FABRIC SPECIFICATIONS INDICATED IN NOTE 1 OF "FABRIC SPECIFICATION" ON THE APPROVED PLANS. THE FABRIC SHALL BE REPLACED WHEN THE TEST RESULTS RETURN LESS THAN 50% OF THE ULTIMATE VALUES IN NOTE 1 OF "FABRIC SPECIFICATION".

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. SHADE STRUCTURE SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023A, ASTM 1023M-02, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 250 LBS MINIMUM. THE MAXIMUM CALCULATED CABLE TENSION IS 2726 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

2016 CBC PC DESIGN NOTES

FLOOR LIVE LOAD	N/A	
ROOF LIVE LOAD	RLL	5 PSF
ALLOWABLE SOIL PRESSURE:		
DL + LL (CONC FTG)	1500 PSF	
DL + LL + SEISMIC (CONC FTG)	1500 PSF	
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2	

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD 5 PSF

FLOOD HAZARD AREA NO
WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-10, SECTION 27.4.3

-ULTIMATE DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.88
-VELOCITY PRESSURE	qz	25.32 PSF

SEISMIC DESIGN:

-SITE CLASS	D	
	SS	3.00g
	S1	1.389g
-SPECTRAL RESPONSE COEFFICIENTS	SDS	2.00
	SD1	1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

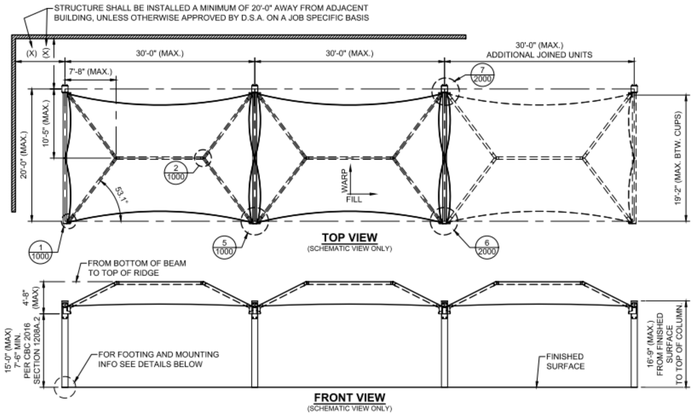
-SEISMIC IMPORTANCE FACTOR	I	1.0
-DESIGN BASE SHEAR	V	26584 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
-RISK CATEGORY	II	
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1
	Fv	1.5

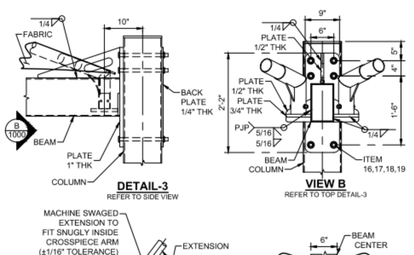
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1), IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.

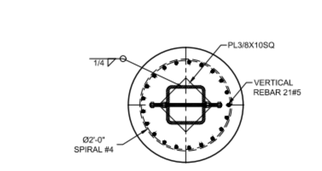


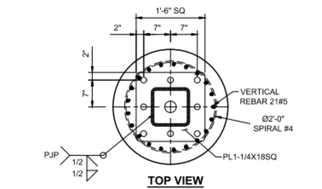


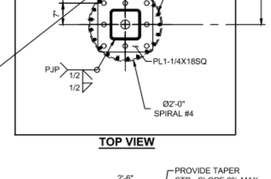
CODE ANALYSIS

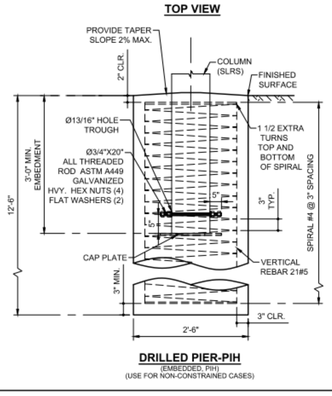
BUILDING	OCCUPANCY	CONST. TYPE	AREA (SQ. FT.)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
SHADE STRUCTURE					

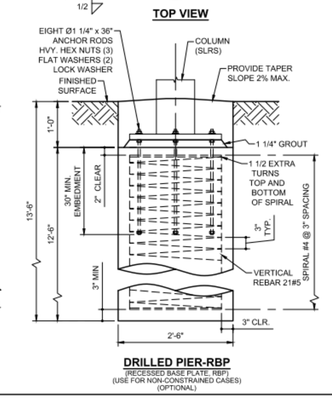
MAXIMUM OCCUPANT LOAD (PER CBC 2016 TABLE 1604A.5)
-K-12: 250 PERSONS
-PUBLIC ASSEMBLY: 300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: 500 PERSONS

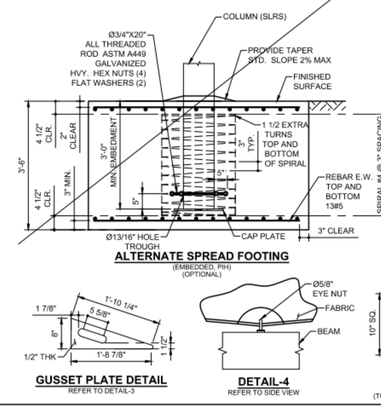


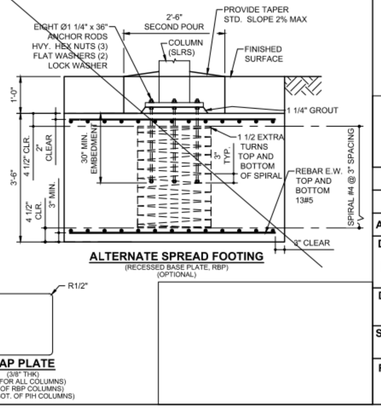












LIST OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL
1	TBD	COLUMN	HSS 10 x 10 x 0.625
2A	TBD	BEAM LEFT	HSS 10 x 6 x 0.375
2B	TBD	BEAM RIGHT	HSS 10 x 6 x 0.375
2C	TBD	BEAM CENTER	HSS 10 x 6 x 0.375
3	TBD	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
4	TBD	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
5	TBD	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
6	TBD	CROSSPIECE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
7	TBD	RIDGE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
8	TBD	FABRIC TOP	FR COLOURSHADE Z25
9	TBD	Ø3/8" CABLE	GALVANIZED STEEL
10	TBD	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
11	TBD	Ø5/8"-11NC x 6" HEX BOLT	18-8 SS
12	TBD	Ø5/8"-11NC HEX NUT	18-8 SS
13	TBD	Ø5/8" FLAT WASHER	18-8 SS
14	TBD	Ø5/8" FLAT WASHER	DELRIN (ACETAL)
15	TBD	Ø5/8" SPLIT LOCK WASHER	18-8 SS
16	TBD	Ø1"-8NC x 13" HEX BOLT	ASTM A325 GALVANIZED
17	TBD	Ø1"-8NC HEX NUT	ASTM A563 GALVANIZED
18	TBD	Ø1" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
19	TBD	Ø1" FLAT WASHER	ASTM F436 GALVANIZED

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Fillmore U.S.D.

PROJECT NAME:
Fillmore High School

LOCATION:
555 Central Ave
Fillmore, CA 93015

MODEL NUMBER:
DSA3022060-16

STRUCTURE TYPE:
FULL CANTILEVER
HIP JOINED DSA

SIZE: **MAXIMUM**
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE: **D**

LICENSED ARCHITECT DAVID HIGGINSON No. C31948 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:08:42 AM

REGISTERED PROFESSIONAL ENGINEER ALBERT CLARK No. 39267 STRUCTURAL STATE OF CALIFORNIA
8/10/2018
FILE NUMBER: 04-117140

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	03/17/18
Design By :	MP	03/17/18
Approved By :	JO	03/17/18

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG. **DSA3022060-16**

SHEET **10.1-1000**

REV. **NC**

REV	DESCRIPTION	DATE	DRW	CHK	ENG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN SMITH C20495 EXP. 5/1/21 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
SHADE STRUCTURE REFERENCE DRAWINGS

SHEET NUMBER:
G-6.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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ENVELOPE JOINT REACTIONS

Shear resultant = $\sqrt{Px^2 + Py^2 + Pz^2}$ Moment resultant = $\sqrt{Mx^2 + My^2 + Mz^2}$

ASD REACTIONS

Node No.		Support Forces [kip] P_x	P_y	P_z	Support Moments [kipft] M_x	M_y	M_z		Support Forces [kip] SHEAR RESULTANT	Support Moments [kipft] MOMENT RESULTANT	Support Forces [kip] UPLIFT	Support Forces [kip] AXIAL
					MAXIMUM REACTIONS				3.924	72.689	1.314	-6.957
86	Max	3.767	3.412	0.118	17.417	45.805	5.635					
	Min	-0.030	-0.786	-4.471	-56.757	0.000	-17.554					
	Max P_x	**3.767**	0.529	-0.630	-13.525	45.805	-12.499	CO 24	3.804	47.760		-0.630
	Min P_x	**-0.030**	0.088	-2.619	-22.223	0.711	0.747	CO 36	0.093	22.234		-2.619
	Max P_y	0.518	**3.412**	-0.729	-45.884	8.062	-1.952	CO 25	3.451	46.587		-0.729
	Min P_y	2.138	**-0.786**	0.094	17.417	31.899	-9.524	CO 42	2.278	36.344	0.094	
	Max P_z	1.801	1.094	**0.118**	-4.063	25.871	-14.711	CO 41	2.107	26.572	0.118	
	Min P_z	0.771	0.702	**-4.471**	-42.100	14.626	4.692	CO 15	1.043	44.568		-4.471
	Max M_x	2.138	-0.786	0.094	**17.417**	31.899	-9.524	CO 42	2.278	36.344	0.094	
	Min M_x	0.160	2.592	-3.737	**-56.757**	3.700	0.674	CO 21	2.597	56.877		-3.737
	Max M_y	3.767	0.529	-0.630	-13.525	**45.805**	-12.499	CO 24	3.804	47.760		-0.630
	Min M_y	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_z	1.132	0.899	-3.032	-32.581	19.447	**5.635**	CO 38	1.422	37.943		-3.032
	Min M_z	1.997	1.084	0.045	-4.832	28.687	**-17.554**	CO 6	2.235	28.091	0.045	
88	Max	3.766	3.687	1.280	43.963	45.961	0.608					
	Min	-0.058	-2.613	-4.943	-68.457	-0.845	-8.830					
	Max P_x	**3.766**	-0.170	-3.326	-15.052	45.961	-8.830	CO 22	3.770	48.363		-3.326
	Min P_x	**-0.058**	-1.144	1.023	36.541	-0.628	0.698	CO 7	1.545	36.546	1.023	
	Max P_y	0.000	**3.687**	-3.321	-63.669	0.000	0.030	CO 23	3.607	63.669		-3.321
	Min P_y	0.000	**-2.613**	-4.629	-5.774	0.002	-0.002	CO 39	2.613	5.774		-4.629
	Max P_z	0.000	0.766	**1.280**	15.844	0.003	0.001	CO 41	0.766	15.844	1.280	
	Min P_z	0.000	0.924	**-6.943**	-66.399	0.002	-0.001	CO 15	0.924	66.399		-6.943
	Max M_x	-0.053	-1.851	1.125	**43.963**	-0.628	0.696	CO 42	1.852	43.967	1.125	
	Min M_x	0.000	2.604	-5.061	**-69.457**	0.001	0.030	CO 21	2.604	69.457		-5.061
	Max M_y	3.766	-0.170	-3.326	-15.052	**45.961**	-8.830	CO 22	3.770	48.363		-3.326
	Min M_y	0.049	-0.768	-2.633	8.039	**-0.845**	-0.465	CO 19	0.770	8.083		-2.633
	Max M_z	-0.058	-1.144	1.023	36.541	-0.628	**0.608**	CO 7	1.545	36.546	1.023	
	Min M_z	3.766	-0.170	-3.326	-15.052	45.961	**-8.830**	CO 22	3.770	48.363		-3.326
380	Max	3.058	3.412	0.119	16.442	34.879	17.556					
	Min	-2.367	-0.974	-4.470	-56.757	-35.703	-7.321					
	Max P_x	**3.058**	-0.355	-3.012	-8.053	34.879	-7.321	CO 22	3.079	35.797		-3.012
	Min P_x	**-2.367**	-0.574	-0.080	10.507	-35.703	9.798	CO 7	2.436	37.217		-0.080
	Max P_y	-0.518	**3.412**	-0.729	-45.884	-8.062	1.952	CO 25	3.451	46.587		-0.729
	Min P_y	-2.083	**-0.829**	-0.025	16.442	-31.254	8.995	CO 42	2.242	35.315		-0.025
	Max P_z	-1.801	1.093	**0.119**	-6.034	-25.866	14.713	CO 41	2.107	26.560	0.119	
	Min P_z	-0.771	0.702	**-4.470**	-42.098	-14.623	-4.693	CO 15	1.043	44.565		-4.470
	Max M_x	-2.083	-0.829	-0.025	**16.442**	-31.254	8.995	CO 42	2.242	35.315		-0.025
	Min M_x	-0.160	2.592	-3.737	**-56.757**	-3.700	-0.674	CO 21	2.597	56.877		-3.737
	Max M_y	3.058	-0.355	-3.012	-8.053	**34.879**	-7.321	CO 22	3.079	35.797		-3.012
	Min M_y	-2.367	-0.574	-0.080	10.507	**-35.703**	9.798	CO 7	2.436	37.217		-0.080
	Max M_z	-1.997	1.083	0.045	-4.816	-28.684	**17.556**	CO 6	2.235	29.085	0.045	
	Min M_z	3.058	-0.355	-3.012	-8.053	34.879	**-7.321**	CO 22	3.079	35.797		-3.012
270	Max	3.783	3.413	0.129	15.828	46.108	6.255					
	Min	-0.063	-0.706	-4.469	-56.457	0.000	-18.556					
	Max P_x	**3.783**	0.534	-0.629	-13.626	46.108	-12.514	CO 24	3.821	48.079		-0.629
	Min P_x	**-0.063**	0.067	-2.618	-21.801	0.155	1.094	CO 36	0.092	21.802		-2.618
	Max P_y	0.525	**3.413**	-0.728	-45.908	8.205	-1.904	CO 25	3.453	46.635		-0.728
	Min P_y	2.285	**-0.706**	0.104	15.828	34.460	-10.271	CO 42	2.392	37.921	0.104	
	Max P_z	2.090	1.214	**0.129**	-8.424	29.334	-15.643	CO 41	2.340	30.520	0.129	
	Min P_z	0.695	0.649	**-4.469**	-41.017	15.341	5.370	CO 15	0.951	43.132		-4.469
	Max M_x	2.285	-0.706	0.104	**15.828**	34.460	-10.271	CO 42	2.392	37.921	0.104	
	Min M_x	0.338	3.397	-2.919	**-56.457**	5.635	-0.650	CO 23	3.414	56.738		-2.919
	Max M_y	3.783	0.534	-0.629	-13.626	**46.108**	-12.514	CO 24	3.821	48.079		-0.629
	Min M_y	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_z	1.034	0.847	-3.029	-31.496	18.285	**6.255**	CO 38	1.337	36.419		-3.029
	Min M_z	2.219	1.133	0.056	-7.388	32.571	**-18.556**	CO 6	2.492	33.398	0.056	
272	Max	3.923	3.707	1.314	43.600	48.698	1.754					
	Min	0.000	-2.266	-6.957	-72.672	0.000	-8.705					
	Max P_x	**3.923**	-0.096	-0.836	-2.756	48.698	-8.705	CO 24	3.924	48.776		-0.836
	Min P_x	**0.000**	0.000	0.000	0.000	0.000	0.000		0.000	0.000		
	Max P_y	0.093	**3.707**	-3.326	-65.887	1.818	0.494	CO 23	3.708	65.912		-3.326
	Min P_y	0.410	**-2.266**	-4.696	-14.340	7.495	-1.122	CO 39	2.303	16.181		-4.696
	Max P_z	0.547	0.970	**1.314**	12.606	9.192	-2.847	CO 41	1.114	15.601	1.314	
	Min P_z	0.035	1.042	**-6.957**	-69.418	1.670	1.754	CO 15	1.043	69.426		-6.957
	Max M_x	0.355	-1.811	1.149	**43.600**	6.243	-1.694	CO 42	1.845	44.045	1.149	
	Min M_x	0.089	2.741	-5.072	**-72.672**	1.534	1.021	CO 21	2.742	72.688		-5.072
	Max M_y	3.923	-0.096	-0.836	-2.756	**48.698**	-8.705	CO 24	3.924	48.776		-0.836
	Min M_z	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_z	0.035	1.042	-6.957	-69.418	1.670	**1.754**	CO 15	1.043	69.426		-6.957
	Min M_y	3.923	-0.096	-0.836	-2.756	48.698	**-8.705**	CO 24	3.924	48.776		-0.836
363	Max	3.677	3.707	1.314	42.482	44.290	5.091					
	Min	-0.652	-2.266	-6.957	-72.673	-11.690	-8.878					
	Max P_x	**3.677**	-0.088	-3.327	-16.765	44.290	**-8.878**	CO 22	3.678	47.357		-3.327
	Min P_x	**-0.652**	0.576	1.167	19.550	**-11.690**	3.091	CO 6	0.870	22.476	1.167	
	Max P_y	-0.093	**3.707**	-3.326	-65.887	-1.818	-0.494	CO 23	3.708	65.912		-3.326
	Min P_z	-0.410	**-2.266**	-4.696	-14.342	-7.491	1.119	CO 39	2.303	16.180		-4.696

ENVELOPE JOINT REACTIONS

Shear resultant = $\sqrt{Px^2 + Py^2 + Pz^2}$ Moment resultant = $\sqrt{Mx^2 + My^2 + Mz^2}$

ASD REACTIONS

Node No.		Support Forces [kip] P_x	P_y	P_z	Support Moments [kipft] M_x	M_y	M_z		Support Forces [kip] SHEAR RESULTANT	Support Moments [kipft] MOMENT RESULTANT	Support Forces [kip] UPLIFT	Support Forces [kip] AXIAL
					MAXIMUM REACTIONS				3.924	72.689	1.314	-6.957
	Max P_z	-0.546	0.970	**1.314**	12.609	-9.185	2.851	CO 41	1.113	15.600	1.314	
	Min P_z	-0.035	1.042	**-6.957**	69.417	-1.066	-1.755	CO 15	1.043	69.425		-6.957
	Max M_x	0.423	-1.842	1.033	**42.492**	-7.089	2.301	CO 42	1.890	43.079	1.033	
	Min M_x	-0.089	2.741	-5.072	**-72.673**	-1.532	-1.021	CO 21	2.742	72.689		-5.072
	Max M_y	3.677	-0.088	-3.327	-16.765	**44.290**	-8.878	CO 22	3.678	47.357		-3.327
	Min M_y	-0.652	0.576	1.167	19.550	**-11.090**	3.091	CO 6	0.870	22.476	1.167	
	Max M_z	-0.652	0.576	1.167	19.550	-11.090	**3.091**	CO 6	0.870	22.476	1.167	
455	Max	3.052	3.413	0.129	14.860	34.749	16.557					
	Min	-2.503	-0.752	-4.468	-56.457	-38.101	-7.362					
	Max P_x	**3.052**	-0.301	-3.011	-8.134	34.749	-7.362	CO 22	3.072	35.688		-3.011
	Min P_x	**-2.503**	-0.498	-0.074	8.940	-38.101	10.359	CO 7	2.552	39.136		-0.074
	Max P_y	-0.515	**3.413**	-0.728	-45.908	-8.205	1.904	CO 25	3.453	46.635		-0.728
	Min P_y	-2.217	**-0.752**	-0.017	14.860	-33.199	9.580	CO 42	2.341	36.738		-0.017
	Max P_z	-2.000	1.213	**0.129**	-8.397	-29.329	15.645	CO 41	2.339	30.507	0.129	
	Min P_z	-0.695	0.649	**-4.468**	-41.015	-13.338	-5.371	CO 15	0.951	43.129		-4.468
	Max M_x	-2.217	-0.752	-0.017	**14.860**	-33.199	9.580	CO 42	2.341	36.738		-0.017
	Min M_x	-0.338	3.397	-2.919	**-56.457**	-5.635	0.650	CO 23	3.414	56.738		-2.919
	Max M_y	3.052	-0.301	-3.011	-8.134	**34.749**	-7.362	CO 22	3.072	35.688		-3.011
	Min M_y	-2.503	-0.498	-0.074	8.940	**-38.101**	10.359	CO 7	2.552	39.136		-0.074
	Max M_z	-2.218	1.133	0.057	-7.372	-32.569	**18.557**	CO 6	2.491	33.393	0.057	
	Min M_z	3.052	-0.311	-3.011	-8.134	34.749	**-7.362**	CO 22	3.072	35.688		-3.011

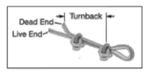
BASIC LOAD CASES

DEAD LOAD	0.0378 PSF (FABRIC)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF
ROOF SNOW LOAD	5 PSF
SUPERIMPOSED LOADS	N/A

WIND LOAD
ULTIMATE DESIGN WIND SPEED (3 SEC GUST) 115 MPH
VELOCITY PRESSURE qz 25.32 PSF
COMPONENT AND CLADDING qz
(CABLE AND CABLE HARDWARE ONLY) 25.32 PSF

SEISMIC LOAD
SEISMIC RESPONSE COEFFICIENTS Cs 1.6
DESIGN BASE SHEAR 26584 LB

Forged Single-Saddle Wire Rope Clamps—Not for Lifting



A forged fabrication allows these to be used in critical applications such as tie downs and support lines. They must be oriented with the saddle on the long (live) end and U-bolt on the short (dead) end. Also known as wire rope clips.

Galvanized steel clamps have a thick coating for corrosion resistance.

316 stainless steel clamps are the most corrosion resistant fittings we offer. They provide excellent resistance to salt water and chemicals.

Warning: Test all assemblies for required strength before use. Do not use with coated rope unless the coating is removed.

For Rope Dia.	No. of Clamps Required	Rope Turnback	Required Torque, ft.-lbs.	Clamp Ht.	Clamp Wid.	Clamp Thick.	Clamp Capacity	Specifications Met
Galvanized Steel								
1/8"	2	3 1/4"	4.5	1 11/16"	1"	13/16"	80% of the Rope's Capacity	—
3/16"	2	3 3/4"	7.5	1 9/32"	1 3/16"	1"	80% of the Rope's Capacity	—
1/4"	2	4 3/4"	15	1 3/4"	1 7/16"	1 1/4"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
5/16"	2	5 1/4"	30	2 1/8"	1 11/16"	1 5/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
3/8"	2	6 1/2"	45	2 7/16"	2"	1 11/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
7/16"	2	7"	65	2 7/16"	2 5/16"	1 15/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1/2"	3	11 1/2"	65	3 7/16"	2 5/16"	1 15/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
9/16"	3	12"	95	3 5/16"	2 1/2"	2 1/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
5/8"	3	12"	95	3 5/16"	2 1/2"	2 1/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
3/4"	4	18"	130	4 3/16"	2 7/16"	2 1/4"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
7/8"	4	19"	225	4 3/4"	3 3/16"	2 1/2"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1"	5	26"	225	5 5/16"	3 1/2"	2 11/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/8"	6	34"	225	5 13/16"	3 5/8"	2 13/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/4"	7	44"	360	6 5/16"	4 3/16"	3 3/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 3/8"	7	44"	360	6 3/4"	4 1/4"	3 7/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/2"	8	54"	360	7 7/16"	4 1/2"	3 7/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450

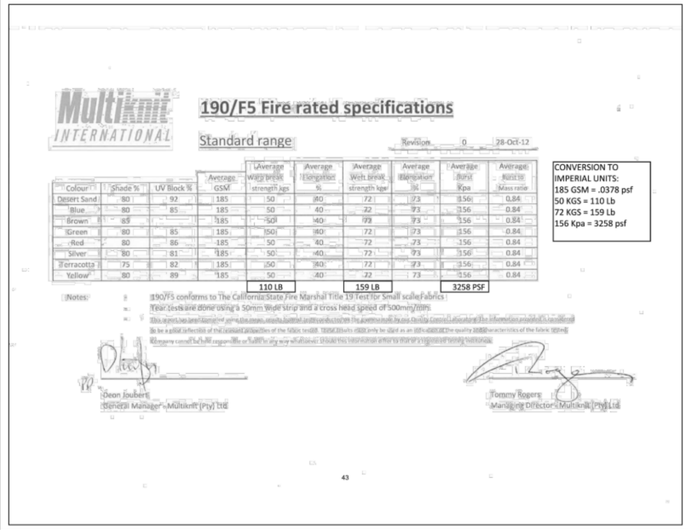
Aircraft Cable

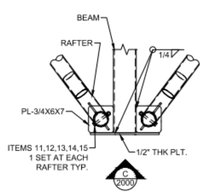
Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.

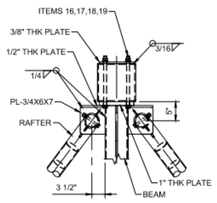
7 x 19

7 x 19 Dia. (In)	Approx. Wt 1000 Ft/lbs	Galvanized Min. Breaking Strengths (lbs)
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

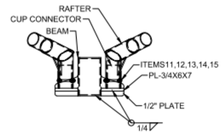




DETAIL-6
REFER TO TOP VIEW PG 1000



DETAIL-7
REFER TO TOP VIEW PG 1000



VIEW C
REFER TO DETAIL-6

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USA SHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Fillmore U.S.D.

PROJECT NAME:
Fillmore High School

LOCATION:
555 Central Ave
Fillmore, CA 93015

MODEL NUMBER:
DSA3022060-16

STRUCTURE TYPE:
FULL CANTILEVER HIP JOINED DSA

SIZE: MAXIMUM
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE: D

LICENSED ARCHITECT DAVID HIGGINS No. C-31408 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:08:51 AM

REGISTERED PROFESSIONAL ENGINEER JAMES ALBERT No. 3093 STRUCTURAL STATE OF CALIFORNIA
8/10/2018

FILE NUMBER: PC-SS

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	03/17/18
Design By :	MP	03/17/18
Approved By :	JO	03/17/18

DRAWING DESCRIPTION:
REACTIONS

DWG. **DSA3022060-16**

SHEET **10.2-2000**

REV. **NC**

REV	DESCRIPTION	DATE	DRW	CHK	ENG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN SMITH C20495 EXP. 5/23 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
SHADE STRUCTURE REFERENCE DRAWINGS

SHEET NUMBER:
G-6.4

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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GRADING NOTES:

1. ALL GRADING SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE CHAPTER 17, 18 & ALL GRADING SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE CHAPTER 17, 18 & APPENDIX–J AS AMENDED BY ORDINANCE 457.
2. ALL PROPERTY CORNERS, GRADING BOUNDARIES AND ALL CONSERVATION AREAS/LEAST SENSITIVE ALL PROPERTY CORNERS, GRADING BOUNDARIES AND ALL CONSERVATION AREAS/LEAST SENSITIVE AREA (LSA) DETERMINED BY THE ENVIRONMENTAL PROGRAMS DEPARTMENT (EPD) SHALL BE CLEARLY DELINEATED AND STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
3. ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT–OF– WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW–APPROVAL (PERMIT) FROM THE TRANSPORTATION DEPARTMENT.
4. ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION PREPARED BY GEOTEK DATED DECEMBER 20, 2019.
5. COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5.8. PROJECTS COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5.8. PROJECTS WITHOUT A PRELIMINARY SOILS REPORT SHALL INCLUDE DETAILED SPECIFICATIONS IN ACCORDANCE WITH SECTIONS 1803.2 AND 1803.5 PREPARED BY THE ENGINEER OF RECORD.
6. THE CONTRACTOR SHALL NOTIFY FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION AT LEAST 24 THE CONTRACTOR SHALL NOTIFY FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.
7. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE DIGGING AT 1–800–422–4133. IF IN THE EVENT ANY EXISTING UTILITIES ARE DAMAGED, IT SHALL REMAIN EXPOSED UNTIL THE APPROVAL MEANS BY THE AOR IS ACCEPTED BY THE IOR.
8. PRIOR TO GRADING, A MEETING SHALL BE SCHEDULED WITH A RIVERSIDE COUNTY ENVIRONMENTAL PRIOR TO GRADING, A MEETING SHALL BE SCHEDULED WITH A RIVERSIDE COUNTY ENVIRONMENTAL COMPLIANCE INSPECTOR PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
9. MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL).
10. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8–INCH MAX OR AS RECOMMENCED IN THE SOILS REPORT), COMPACTED AND TESTED THROUGHOUT THE GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 1 (HORIZONTAL TO VERTICAL) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEYED AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET WIDE MINIMUM.
11. THE SLOPE STABILITY FOR CUT AND FILL SLOPES OVER 30 FEET IN VERTICAL HEIGHT, OR CUT THE SLOPE STABILITY FOR CUT AND FILL SLOPES OVER 30 FEET IN VERTICAL HEIGHT, OR CUT SLOPES STEEPER THAN 2:1 HAVE BEEN VERIFIED WITH A FACTOR OF SAFETY OF AT LEAST 1.5.
12. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.
13. DRAINAGE ACROSS PROPERTY LINES SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. DRAINAGE ACROSS PROPERTY LINES SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY. EROSION OF THE GROUND IN THE AREA OF DISCHARGE SHALL BE PREVENTED BY INSTALLATION OF NON–EROSIVE DOWN DRAINS OR OTHER DEVICES.
14. PROVIDE A PAVED SLOPE INTERCEPTOR DRAIN ALONG THE TOP OF CUT SLOPES WHERE THE PROVIDE A PAVED SLOPE INTERCEPTOR DRAIN ALONG THE TOP OF CUT SLOPES WHERE THE DRAINAGE PATH IS GREATER THAN 40 FEET TOWARDS THE CUT SLOPE.
15. PROVIDE 5' WIDE BY 1' HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1 PROVIDE 5' WIDE BY 1' HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL).
16. THE GROUND SURFACE IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED THE GROUND SURFACE IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5–PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE FOUNDATION.
17. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
18. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPS) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DRAINAGE TO ADJACENT PROPERTIES.
19. DUST CONTROL SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS. DUST CONTROL SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
20. FUGITIVE DUST CONTROL: CONSTRUCTION SITES SUBJECT TO PM10 FUGITIVE DUST MITIGATION SHALL FUGITIVE DUST CONTROL: CONSTRUCTION SITES SUBJECT TO PM10 FUGITIVE DUST MITIGATION SHALL COMPLY WITH AQMD RULE 403.1.
21. ALL EXISTING DRAINAGE COURSES AND STORM DRAIN FACILITIES SHALL CONTINUE TO FUNCTION. ALL EXISTING DRAINAGE COURSES AND STORM DRAIN FACILITIES SHALL CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
22. FOR ALL SLOPES STEEPER THAN 4 TO 1 (H/V): ALL SLOPES EQUAL TO OR GREATER THAN 3' IN FOR ALL SLOPES STEEPER THAN 4 TO 1 (H/V): ALL SLOPES EQUAL TO OR GREATER THAN 3' IN VERTICAL HEIGHT ARE REQUIRED TO BE PLANTED WITH AN APPROVED DROUGHT–TOLERANT GROUND COVER AT A MINIMUM SPACING OF 12" ON CENTER OR AS APPROVED BY THE ENGINEER OF ON CENTER OR AS APPROVED BY THE ENGINEER OF RECORD OR THE REGISTERED LANDSCAPE ARCHITECT AND DROUGHT–TOLERANT SHRUBS SPACED AT NO MORE THAN 10' ON CENTER. SLOPES EXCEEDING 15' IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED SHRUBS NOT TO EXCEED 10' ON CENTER, OR TREES SPACED NOT TO EXCEED 20' ON CENTER, OR A COMBINATION OF SHRUBS AND TREES NOT TO EXCEED 15' IN ADDITION TO THE GRASS OR GROUND COVER. SLOPES THAT REQUIRE PLANTING SHALL BE PROVIDED WITH AN IN–GROUND IRRIGATION SYSTEM EQUIPPED WITH AN APPROPRIATE BACKFLOW DEVICE PER C.P.C. CHAPTER 6. THE SLOPE PLANTING AND IRRIGATION SYSTEM SHALL BE INSTALLED AS SOON AS POSSIBLE UPON COMPLETION OF ROUGH GRADING. ALL PERMANENT SLOPE PLANTING SHALL BE ESTABLISHED AND IN GOOD CONDITION PRIOR TO SCHEDULING PRECISE GRADE INSPECTION.
23. A REGISTERED CIVIL ENGINEER SHALL PREPARE FINAL COMPACTION REPORT/GRADING REPORT AND IT A REGISTERED CIVIL ENGINEER SHALL PREPARE FINAL COMPACTION REPORT/GRADING REPORT AND IT SHALL BE SUBMITTED TO FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION FOR REVIEW AND APPROVAL. THE REPORT SHALL INCLUDE BUILDING FOUNDATION DESIGN PARAMETERS (ALLOWABLE SOIL PRESSURES, ETC.), EXPANSION INDEX (AND DESIGN ALTERNATIVES IF EI > 20), WATER SOLUBLE SULFATE CONTENT, CORROSIVITY AND REMEDIAL MEASURES IF NECESSARY. ALL COMPACTION SHALL BE VERIFIED AND CERTIFIED BY THE APPROVED LAB. ALL GRADING SHALL BE VERIFIED AND CERTIFIED BY THE APPROVED LAB.
24. ALL GRADING SHALL BE VERIFIED AND CERTIFIED BY THE APPROVED LAB.
25. THE PLACING OR REPLACING OF MATERIAL OR BACKFILL SHALL BE DONE IN THE PRESENCE OF A SOIL TECHNICIAN.

ENGINEER'S NOTICE TO CONTRACTORS

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
2. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. (CALIFORNIA COUNCIL OF CIVIL ENGINEERS AND LAND SURVEYORS)

CONSTRUCTION EXCAVATION DEEPER THAN 3 FT. NEAR THE PROPERTY LINE:

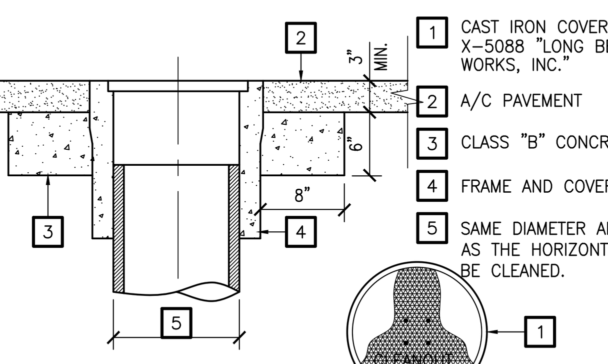
1. EXCAVATIONS AND SHORING SHALL BE MADE ENTIRELY WITHIN THE PROPERTY LINES.
2. LICENSED SURVEYOR TO PROVIDE MONITORING OF SHORING AND IMPROVEMENTS ON ADJACENT PROPERTIES AND SUBMIT RESULTS WITH A REPORT TO THE SHORING DESIGN ENGINEER AND TO THE BUILDING INSPECTOR ON A DAILY BASIS DURING EXCAVATION AND SHORING AND WEEKLY BASIS THEREAFTER. WHERE DEWATERING IS REQUIRED, MONITORING SHALL CONTINUE UNTIL DEWATERING IS STOPPED.
3. IN LIEU OF SPECIAL INSPECTION BY DEPUTY BUILDING INSPECTOR, GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS INSPECTIONS DURING SHORING AND EXCAVATION OPERATIONS AND DURING REMOVAL OF SHORING.
4. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS BY CERTIFIED MAIL 30 DAYS PRIOR TO STARTING THE SHORING OR EXCAVATION WORK.
5. SHORING INSTALLATION AND REMOVAL
   - 5.1. DRIVE PIPES TO THE REQUIRED DEPTH
   - 5.2. SLIP PLYWOOD IN FRONT OF PIPES AS EXACTION COMMENCES AND DURING CUT
   - 5.3. REMOVE PIPES AND PLYWOOD SHEATHING ONCE THE CUT HAS BEEN BACKFILLED AND PRIOR TO COMPACTION.

GENERAL NOTES:

1. WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS, THE UNIFORM BUILDING CODE (EXCAVATION AND GRADING), AND COUNTY OF RIVERSIDE LOCAL ORDINANCES AS APPLICABLE.
2. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED OCTOBER 3, 2019 BY EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED OCTOBER 3, 2019 BY HENNON SURVEYING & MAPPING INC.
3. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
4. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL HIRE A LICENSED LAND SURVEYOR TO VERIFY PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL HIRE A LICENSED LAND SURVEYOR TO VERIFY THAT THE ELEVATIONS SHOWN ON THE GRADING PLAN AT THE JOIN TO THE EXISTING IMPROVEMENTS MATCHES THE EXISTING ELEVATIONS IN THE FIELD. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES, AND SHALL NOT BEGIN CONSTRUCTION, IN THE AREAS OF DISCREPANCIES UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
5. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
6. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
7. IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
8. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
9. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
10. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
11. ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D–1557.
12. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
13. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
14. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
15. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
16. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB.
17. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
18. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE COUNTY OF RIVERSIDE FOR ALL WORK CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE COUNTY OF RIVERSIDE FOR ALL WORK WITHIN THE PUBLIC RIGHT–OF–WAY.
19. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
20. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.
21. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES SUCH AS MANHOLE COVERS, CLEAN OUTLET COVERS, CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES SUCH AS MANHOLE COVERS, CLEAN OUTLET COVERS, METER BOXES, PULL BOXES, VALVE BOXES, AREA DRAINS, CATCH BASINS, FIRE HYDRANTS AND OTHER SURFACE UTILITIES TO NEW FINISH GRADE. NOT ALL EXISTING SURFACE UTILITIES MAY HAVE BEEN IDENTIFIED ON THESE PLANS THAT MAY REQUIRE ADJUSTMENT TO NEW GRADE, THE CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE SITE TO FULLY ACKNOWLEDGE, UNDERSTAND AND INCLUDE THE EXTEND OF WORK REQUIRED.

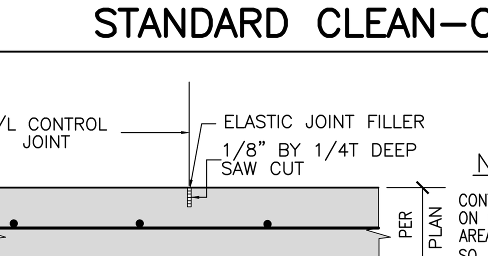
SPECIAL NOTES:

1. IN CASE OF DISCREPANCIES THE RECOMMENDATIONS OF THE SOILS REPORT SHALL GOVERN.
2. SOILS ENGINEER SHOULD BE RETAINED TO OBSERVE ALL GRADING OPERATIONS AND THE REQUIRED TESTING FOR IMPLEMENTING THE RECOMMENDATIONS OF THEIR REPORT.
3. ALL GRADING OPERATIONS, EXCAVATION, FILL, COMPACTION TESTING AND BACKFILL SHALL BE OBSERVED AND TESTED BY THE SOILS ENGINEER.
4. NO FILL SHALL BE PLACED PRIOR TO APPROVAL OF THE SUBGRADE BY THE SOILS ENGINEER.
5. COMPACTION SHALL BE DONE IN ACCORDANCE TO THE RECOMMENDATIONS OF THE SOILS REPORT.
6. COMPACTION TESTS SHALL BE DONE PER SOILS REPORT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS INCURRED FOR REGRADING, INSPECTION AND TESTING DUE TO FAILURE TO COMPLY WITH THE MINIMUM REQUIREMENTS OF THE SOILS REPORT.
8. ALL GRADING OPERATIONS SHALL BE STAKED BY A CALIFORNIA LICENSED LAND SURVEYOR.
9. THE APPLICANT SHALL OBTAIN RIGHT OF ENTRY FROM ADJACENT PROPERTY OWNERS FOR ALL WORK ADJACENT TO PROPERTY LINES.
10. ANY DAMAGE DONE TO EXISTING STREET IMPROVEMENTS AND UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
11. THE LOCATION AND PROTECTION OF UTILITIES IS THE RESPONSIBILITY OF THE PERMITEE.
12. GRADES SHALL VARY UNIFORMLY BETWEEN SPOT ELEVATIONS SHOWN.
13. SHOULD THE CONTRACTOR FIND ANY DISCREPANCY OR OMISSIONS FROM THE PLANS, HE SHALL NOTIFY THE ENGINEER AT ONCE TO OBTAIN CLARIFICATION PRIOR TO STARTING CONSTRUCTION.
14. QUANTITIES SHOWN ARE ENGINEER'S ESTIMATE FOR PERMIT ONLY (NOT BID QUANTITIES). CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO ENGINEER OF WORK PRIOR TO COMMENCING WORK.
15. RELOCATION OR REMOVAL OF ANY EXISTING UTILITIES SHALL BE PERFORMED BY THE RESPECTIVE UTILITY OWNERS.



1. CAST IRON COVER MARKING X–5088 "LONG BEACH IRON WORKS, INC."
2. A/C PAVEMENT
3. CLASS "B" CONCRETE COLLAR
4. FRAME AND COVER
5. SAME DIAMETER AND MATERIAL AS THE HORIZONTAL PIPE TO BE CLEANED.

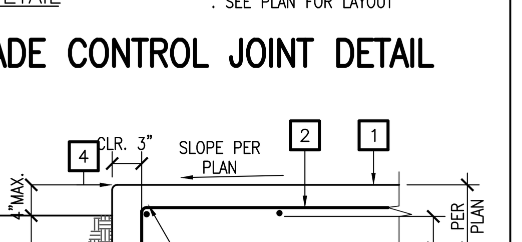
STANDARD CLEAN–OUT — SCALE NONE — 1



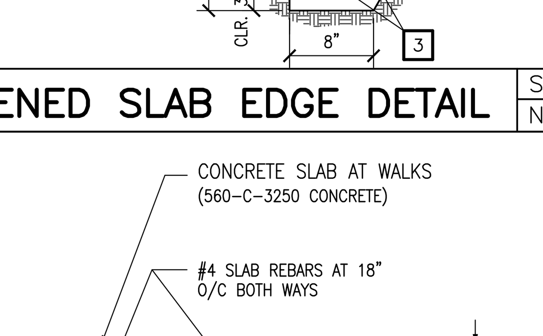
NOTES:
CONTROL JOINTS SHALL DIVIDE SLAB ON GRADE INTO SECTIONS WITH AREAS NOT EXCEEDING 144 SQ. FT. (12'X12') WITHOUT REENTRANT CORNERS AND WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1–1/2 : 1.
. SEE PLAN FOR LAYOUT

SLAB ON GRADE CONTROL JOINT DETAIL

1. SLAB ON GRADE PER FOUNDATION PLAN.
2. #4 BARS PER PLAN BOTH WAYS
3. #4 PERIMETER BARS
4. 1/2" R. EDGER OR 1/2" CHAMFER AT ALL EXPOSED EDGES OF NEW CONCRETE



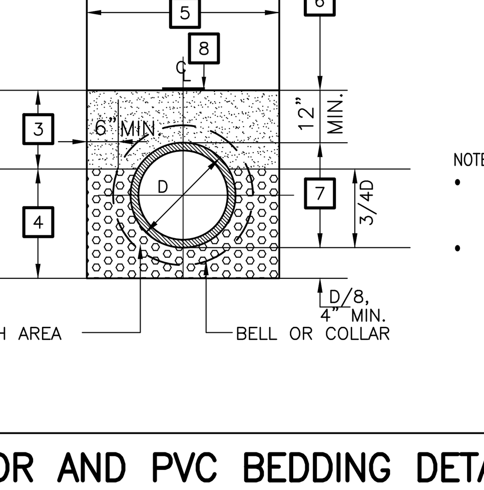
THICKENED SLAB EDGE DETAIL — SCALE NONE — 2



T = 6" OF WELL–GRADED 3/4 INCH CRUSHED ROCK

\CB1A

ON SITE WALKWAY SECTION — SCALE NONE — 3



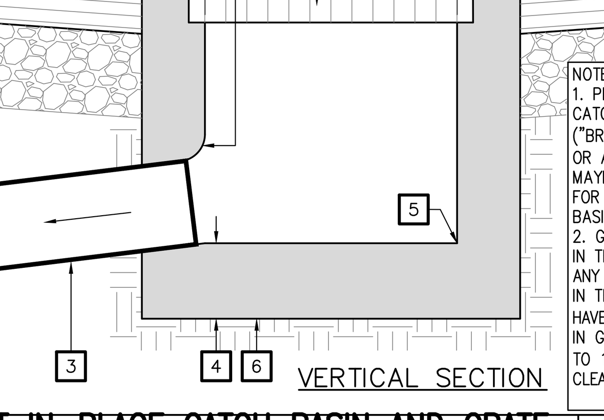
1. BACKFILL
2. BEDDING
3. TYPE "A" MATERIAL
4. TYPE "B" MATERIAL
5. TRENCH WIDTH
6. COVER
7. SPRING LINE
8. 2" WIDE WARNING ID TAPE

NOTES:
- TYPE "A" MATERIAL – SAND WITH S.E. 30 OR GREATER. TYPE "B" MATERIAL – 3/4" CRUSHED ROCK.
- TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL– SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE.

CIVIL/ABS

SDR AND PVC BEDDING DETAIL — SCALE NONE — 4

1. TOP OF GRATE ELEV. PER PLAN
2. 1:48 MAX. IN ALL DIRECTION IN P.O.T. SLOPE
3. DRAIN PIPE PER PLAN
4. CONST. 6" CONC. BASE
5. INV. ELEV. PER PLAN
6. 560–C–3250 CONC. CATCH BASIN
7. 3" RADIUS
8. TRAFFIC GRATE H–1212–EZ "GRATING PACIFIC INC." OR EQUAL INLET GRATE & FRAME. SHALL HAVE 1/2" MAX. GRATE OPENING IN P.O.T. OR PEDESTRIAN CIRCULATION PATH

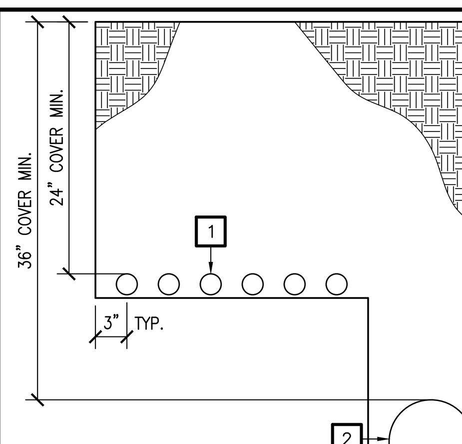


NOTES:
1. PREFABRICATED CATCH BASIN ("BROOKS PRODUCT" OR APPROVED EQUAL) MAYBE SUBSTITUTED FOR CAST IN–PLACE BASIN
2. GRATING LOCATED IN THE SURFACE OF ANY PEDESTRAIN WAY IN THE P.O.T. SHALL HAVE GRID/OPENINGS IN GRATING LIMITED TO 1/2" MAXIMUN CLEAR

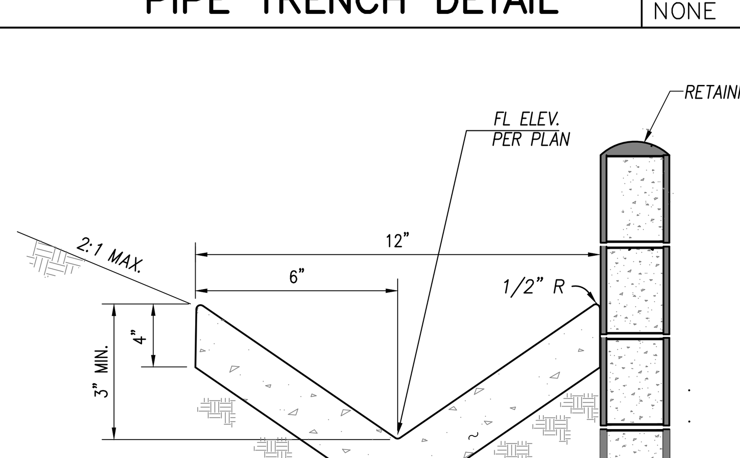
\CB200

CAST IN–PLACE CATCH BASIN AND GRATE INLET DETAIL — SCALE NONE — 5

1. PVC UTILITY LINE (TYP.)
2. PVC WATER FIRE LINE

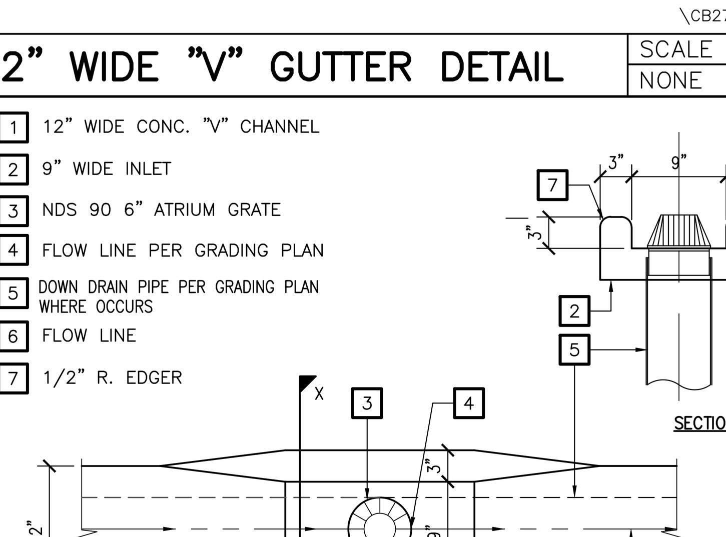


PIPE TRENCH DETAIL — SCALE NONE — 6



12" WIDE "V" GUTTER DETAIL — SCALE NONE — 7

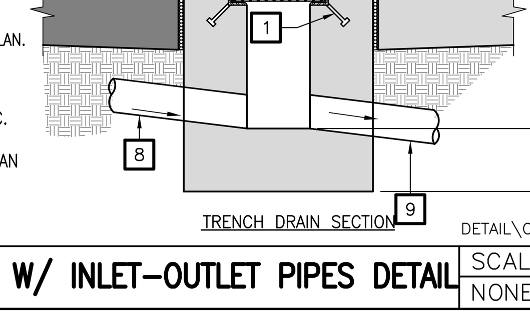
1. 12" WIDE CONC. "V" CHANNEL
2. 9" WIDE INLET
3. NDS 90 6" ATRIUM GRATE
4. FLOW LINE PER GRADING PLAN
5. DOWN DRAIN PIPE PER GRADING PLAN WHERE OCCURS
6. FLOW LINE
7. 1/2" R. EDGER



TRANSITION DETAIL — SCALE NONE — 8

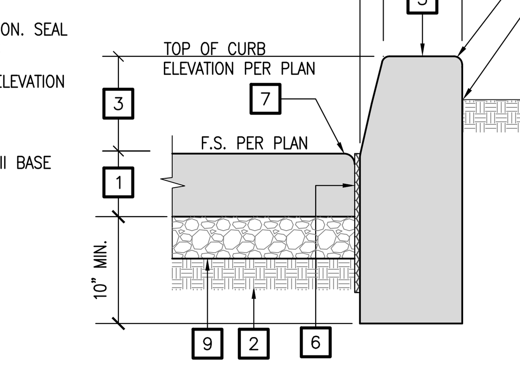
1. HEADED CONCRETE STUD ANCHORS PER "GRATING PACIFIC" MANUFACTURER
2. "GRATING PACIFIC" EMBED FRAME TYPE "L" VERIFY
3. TH–6–EZ HEAVY DUTY TRENCH DRAIN "GRATING PACIFIC INC." (OR EQUAL)
4. SLOPE INVERT OF TRENCH TO STORM DRAIN OULET WITH MINIMUM 0.5%.
5. CONC. WALK PER PLAN.
6. 1/2" POSITIVE SEPARATION (FELT)
7. 560–C–3250 CONC. TRENCH BASIN
8. INLET PIPE PER PLAN WHERE OCCURS
9. OUTLET PIPE PER PLAN. VERIFY PIPE CONNECTION POINT TO EXISTING STORM DRAIN SYSTEM PRIOR TO COMMENCING PROJECT CONSTRUCTION

NOTE:
GRATING LOCATED IN THE SURFACE OF ANY PEDESTRAIN WAY IN THE P.O.T. SHALL HAVE GRID/OPENINGS IN GRATING LIMITED TO 1/2" MAXIMUN CLEAR



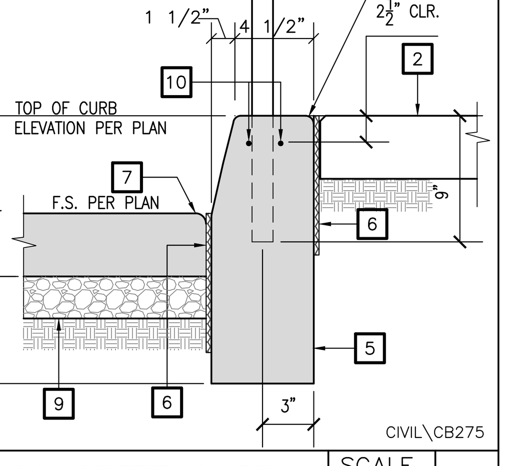
TRENCH DRAIN W/ INLET–OUTLET PIPES DETAIL — SCALE NONE — 9

1. P.C.C. WALK / SLAB PER PLAN
2. GROUND/LANDSCAPING PER PLAN
3. VARIABLE HEIGHT CURB FACE. SEE PLAN
4. 1/2" RADIUS EDGER AT ALL CONCRETE EXPOSED EDGES
5. CONCRETE CURB (560–C–3250) W/ TOOLED CONTRACTION JOINT AT 10' MAX. SPACING
6. POSITIVE SEPARATION. SEAL PER ARCH. PLANS
7. FINISH SURFACE ELEVATION PER PLAN
8. GRADE PER PLAN
9. CALTRANS CLASS II BASE PER PLAN



VARIABLE HEIGHT CONCRETE CURB — SCALE NONE — 10

1. P.C.C. WALK / SLAB PER PLAN
2. (E) CONCRETE WALK
3. VARIABLE HEIGHT CURB FACE PER PLAN. TOP OF CURB FLUSH W/ (E) WALK
4. 1/2" RADIUS EDGER AT ALL CONCRETE EXPOSED EDGES
5. CONCRETE CURB (560–C–3250) W/ TOOLED CONTRACTION JOINT AT 10' MAX. SPACING
6. POSITIVE SEPARATION. SEAL PER ARCH. PLANS
7. FINISH SURFACE ELEVATION PER PLAN
8. GUARDRAIL POST PER ARCH. PLANS
9. CALTRANS CLASS II BASE PER PLAN
10. #3 CONT. BAR



VARIABLE HEIGHT CONCRETE CURB — SCALE NONE — 11

PLAN INDEX SHEET

	SHEET
GRADING PLAN NOTES AND DETAILS	C–1
TOPO, DEMOLITION PLAN AND NOTES	C–2
GRADING PLAN AND CONSTRUCTION NOTES	C–3

LEGEND

AMERICAN PUBLIC WORKS ASSOCIATION	APWA
ASPHALT CONCRETE	AC
BACK OF WALK	BW
BLOCK WALL	
BOTTOM	BOT.
BUILDING	BLDG.
CATCH BASIN	C.B., CBSIN
CHAIN LINK FENCE	—o—o—
COMMUNICATION BOX	COM. BX.
COMMUNICATION VAULT	COM. VLT.
CONCRETE	CONC.
CONSTRUCT	CONST.
CORNER BUILDING	CB
CORNER CONCRETE	CC
CRUSHED AGGREGATE BASE	CAB
CURB FACE, CURB BACK	CF, CB
DOUBLE DETECTOR CHECK VALVE	DDCV
DOWN SPOUT	DS
ELECTRICAL BOX, ELECTRICAL CABINET	ELEC BOX, ELEC CAB
EXISTING	EX, EXIST.
EXISTING CONTOUR	– – – (71.5) – – –
EXISTING DRIVEWAY APPROACH	
EXISTING ELEVATION	(71.5)
FIRE HYDRANT	FH, FHY
FINISH FLOOR ELEVATION	FFE
FINISH GRADE	FG
FINISH SURFACE	FS
GAS LINE	G
GOLDEN STATE WATER COMPANY	-
GRADE BREAK	GB
HIGH POINT	HP
INVERT	INV
IRRIGATION BOX, IRRIGATION VALVE	IRRBX, IRRVLV
LANDSCAPING, PLANTER AREA	L.S., P.A.
LIGHT POLE	LIPOLE
LIP OF GUTTER, GUTTER EDGE	LIP
LOW POINT	LP
ON CENTER	O/C, O.C.
ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	OCEMA
ORANGE COUNTY FIRE AUTHORITY	OCFA
OVER HEAD LINES	OHL
PLANTING AREA	PA
PORTLAND CEMENT CONCRETE	PCC
POWER POLE	PP
PRESSURE TREATED	PT
PROPERTY LINE	— – – —
PROPERTY CONTOUR	— 31 —
PROPOSED ELEVATION	72.0
PULL BOX	PBX
ROOF DOWN SPOUTS AND SPLASH BLOCK RD	SP
SANITARY SEWER	S
SANITARY SEWER HOUSE CONNECTION	— S —
SANITARY SEWER MANHOLE	SSMH
SEWER CLEANOUT	SCO
SITE LIGHT BASE	
STORM DRAIN	SD
STORM DRAIN MAN HOLE	SDMH
STREET	ST.
STREET LIGHT	STLT
STREET LIGHT PULL BOX	SLPB
TELEPHONE BOX	TBX
TOP OF BRICK	TB
TOP OF CONCRETE	FS
TOP OF CURB, FLOW LINE	TC, FL
TOP OF GRATE	TG
TOP OF PAVING	TP
TOP OF WALL, TOP OF FOOTING	TW, TF
TRAFFIC SIGNAL PULL BOX	TSPB
VITRIFIED CLAY PIPE	V.C.P.
WATER LINE	W
WATER METER	WM
WATER SERVICE LINE	— W —
WATER VALVE	•

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"CAUTION": REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

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APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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19520 Jamboree Road | Suite 100
Irvine | California | 92612
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Coast Engineering Designs Inc.
Civil and Structural Engineers
10231 SLATER AVE SUITE 201
FOUNTAIN VALLEY, CA 92708
(714) 593-0337
J.N. 29-2020

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/27/2021
DSA BACK CHECK	05/25/2021

REVISIONS:

DEPARTMENT OF THE STATE ARCHITECT
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: ....03-121233............
AC..............FLS...............SS...............
DATE:...

P.T.N. ________-____

REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER FARHAD REZAI No. 39868 EXP12-31-21 CIVIL STATE OF CALIFORNIA
4/27/2021

SHEET TITLE:
GRADING PLAN NOTES AND DETAILS

SHEET NUMBER:
C-1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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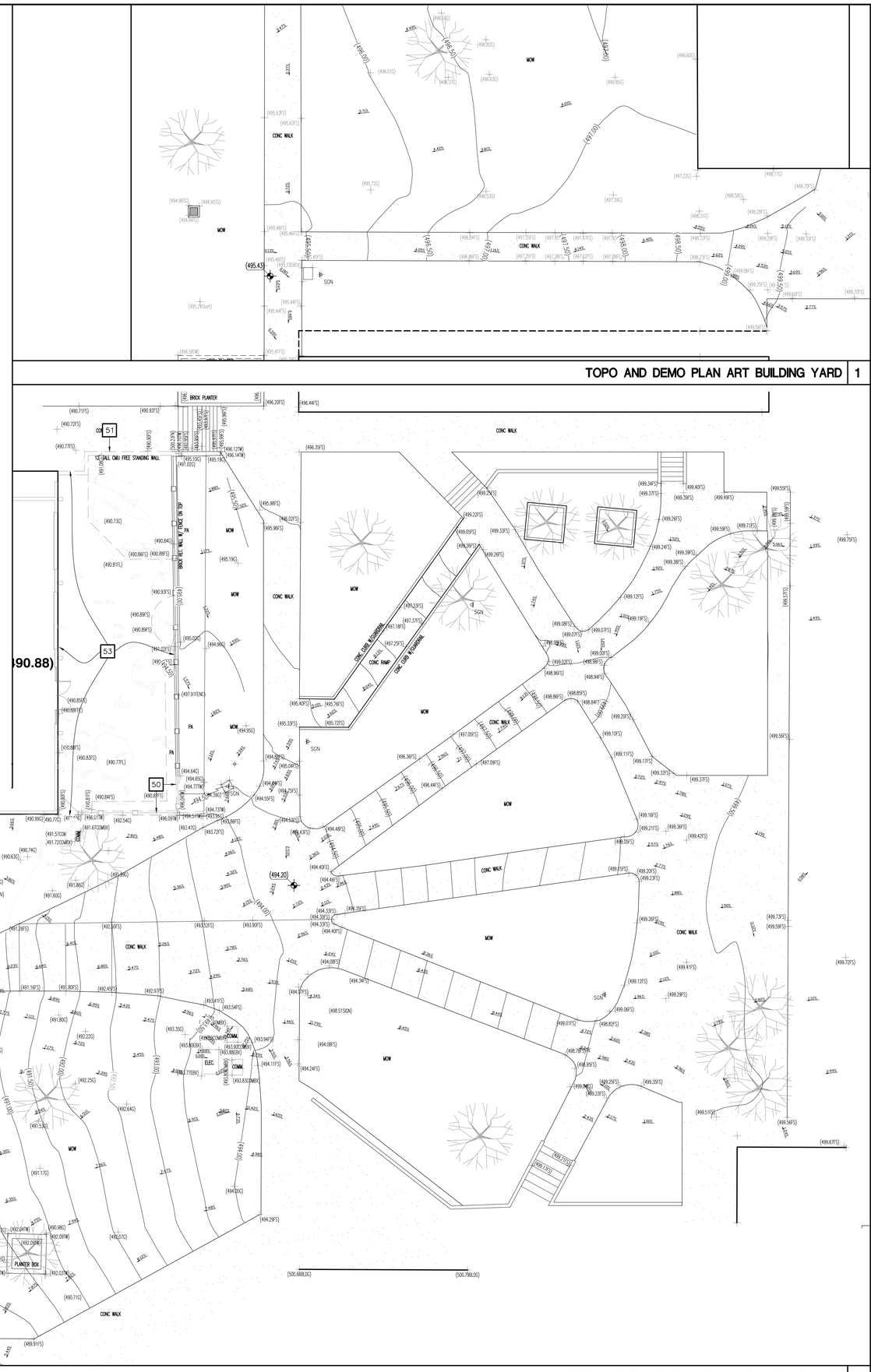

TOPO AND DEMO PLAN ART BUILDING YARD | 1

TOPO AND DEMO PLAN CAFETERIA COURTYARD | 2

0 10 20 40 FEET 60

SCALE: 1"=10'

LEGEND

- EXISTING P.C.C.
- NEW P.C.C. PAVING
- REMOVE P.C.C.

DEMOLITION NOTES:

50 REMOVE BRICK RETAINING WALL W/ FENCE ON TOP
51 REMOVE FREE STANDING WALL
52 SAWCUT LINE AND JOIN EXISTING
53 REMOVE P.C.C. WALK
54 REMOVE BLOCK RETAINING WALL AND GUTTER BEHIND THE WALL
55 PROTECT IN PLACE
56 REMOVE BLOCK WALL
57 REMOVE SOIL
58 REMOVE TREE
59 REMOVE CATCH BASIN. CAP STORM DRAIN PIPE FOR FUTURE CONNECTION
60 RELOCATE IRRIGATION VALVES
61

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
FARHAD REZAI
No. 39868
EXP 12-31-21
CIVIL
STATE OF CALIFORNIA

4/27/2021

SHEET TITLE:

PARTIAL TOPO AND DEMOLITION PLAN

SHEET NUMBER:

C-2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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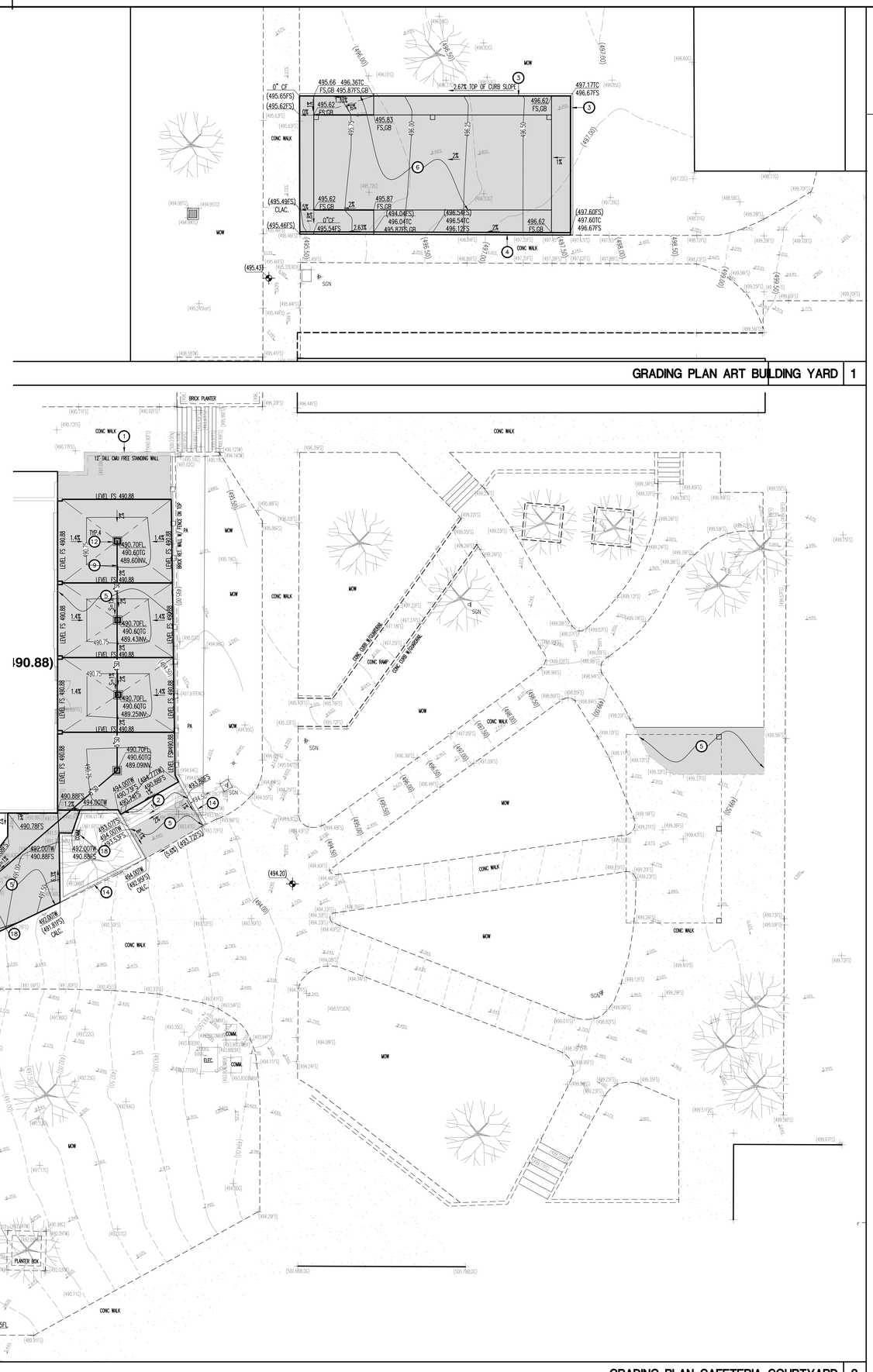

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/27/2021
DSA BACK CHECK	05/25/2021

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
FARHAD REZAI
No. 39868
EXP 12-31-21
CIVIL ENGINEER
STATE OF CALIFORNIA

4/27/2021

SHEET TITLE:

GRADING PLAN

SHEET NUMBER:

C-3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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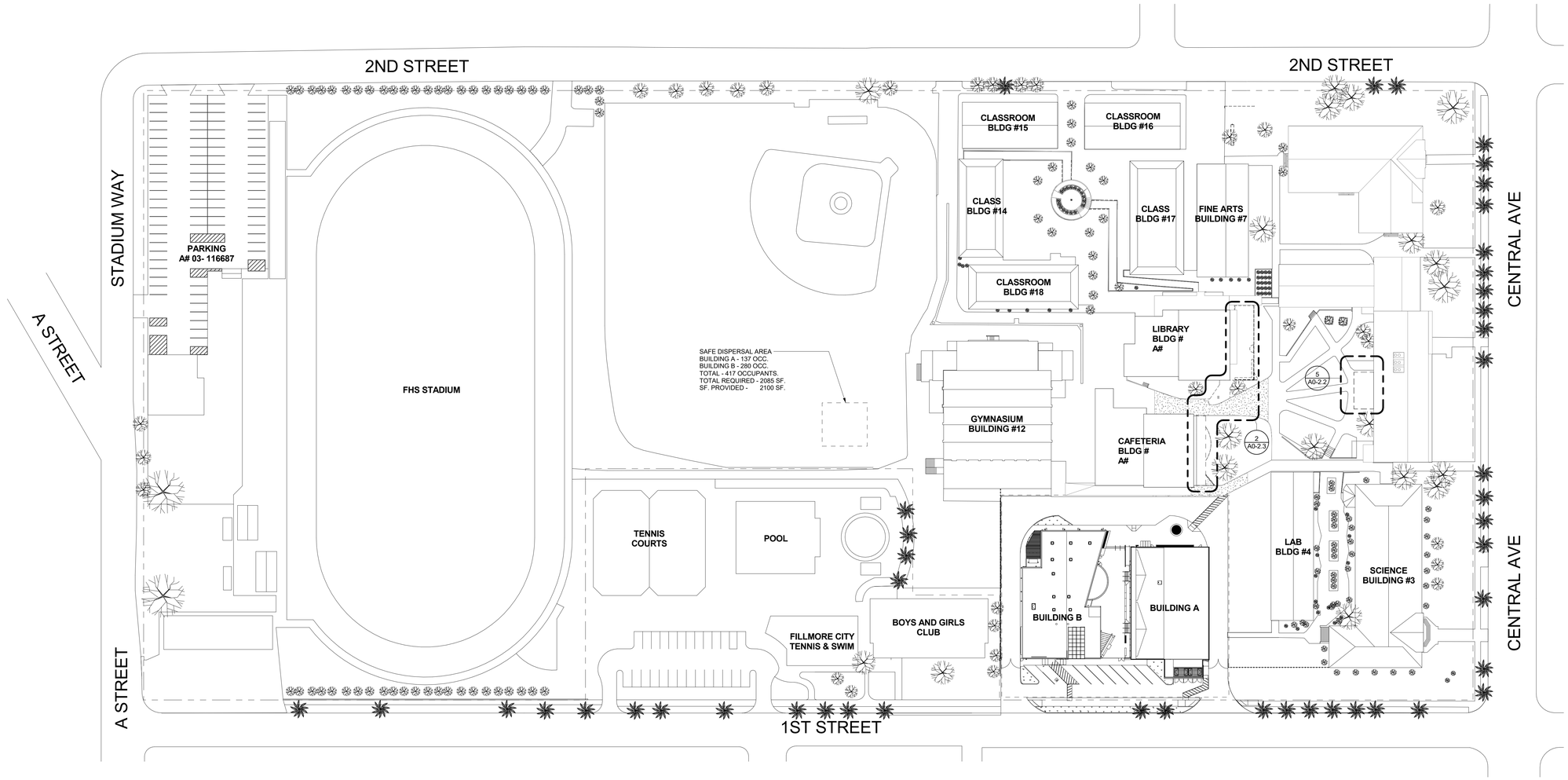

DEMOLITION SITE PLAN | 1 | 1" = 50'-0"

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ACCESSSIBLE PARKING SIGNAGE AND STRIPPING TO REMAIN U.N.O. PROTECT IN PLACE AND/OR REMOVE AND REPLACE AS REQUIRED FOR NEW CONSTRUCTION.
3. SITE PARKING STRIPPING TO REMAIN. PROTECT IN PLACE. PATCH AND REPAIR AS REQUIRED LIKE NEW IF AFFECTED DURING CONSTRUCTION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 5/31/23
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

SITE DEMOLITION

SHEET NUMBER:

A0-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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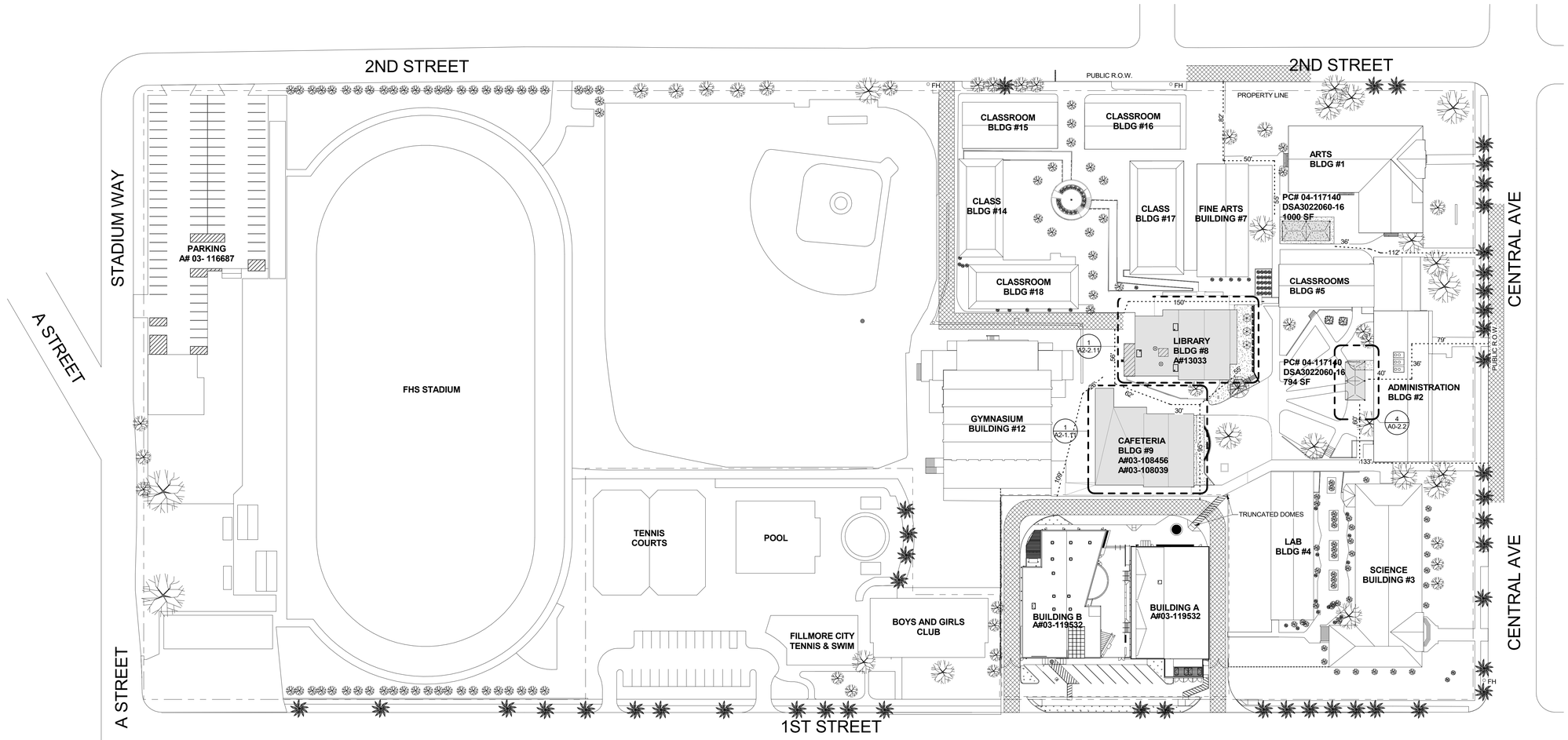

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	FILLMORE UNIFIED SCHOOL DISTRICT
Project Name/School:	FILLMORE HIGH SCHOOL
Project Address:	555 CENTRAL AVE. FILLMORE, CA 93015

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✔	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✔	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✔	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✔	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

Shields Drive / 2nd Street			DATE:	6/21/2020				
			TIME:	12:00 12:30				
Barrel Size = 2.5"								
LOCATION	(PSI) Static	(PSI) Residual	(PSI) Pitot	(INCHES) Outlet Size	GPM	Pitot Square Root	(INCHES) Main Dia.	(coefficients) Outlet Type
2nd Street / Ball Field	130	110	15	**2.5**	506	**3.872983346**	**6"**	0.70
2nd Street / Shields Drive	100	40	19	**2.5**	569	**4.358898944**	**6"**	0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
tested by :								
THOMPSON Capt								
Castro Eng								
Hackworth FF								
Bajwn FF-Medic								
OUTLET TYPE	Square & Projecting = coef 0.70							
	Smooth & Rounded = coef 0.90							
	Square & Sharp = coef 0.80							

Shields Drive / 2nd Street			DATE:	8/13/2020				
			TIME:	11:00 11:30				
Barrel Size = 2.5"								
LOCATION	(PSI) Static	(PSI) Residual	(PSI) Pitot	(INCHES) Outlet Size	GPM	Pitot Square Root	(INCHES) Main Dia.	(coefficients) Outlet Type
Central / 2nd Street	95	90	45	**2.5**	876	**6.708203932**	**10"**	0.70
2nd Street / Shields Drive	95	90	20	**2.5**	584	**4.472135955**	**6"**	0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
				2.5	0	**0**		0.70
tested by :								
THOMPSON Capt								
MERAZ ENG								
CARREON FF/PM								
OUTLET TYPE	Square & Projecting = coef 0.70							
	Smooth & Rounded = coef 0.90							
	Square & Sharp = coef 0.80							

NORTH

IMPROVEMENT SITE PLAN FIRE ACCESS | 1 | 1" = 50'-0"

LEGEND

- (E) PATH OF TRAVEL.
- FIRE HOSE (250' MAX FROM TRUCK)
- BUILDING ENTRY POINT / PUBLIC R.O.W.
- BUILDING OR SHADE STRUCTURE IN SCOPE
- ACCESSIBLE RESTROOMS IN SCOPE
- FIRE ACCESS, 20' WIDE
- TRUNCATED DOMES
- ○ FH EXISTING FIRE HYDRANT

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APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

DAVID JORDAN SMITH — LICENSED ARCHITECT — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

FIRE ACCESS PLAN

SHEET NUMBER:

A0-2.0

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	NG	JS	08/26/2021

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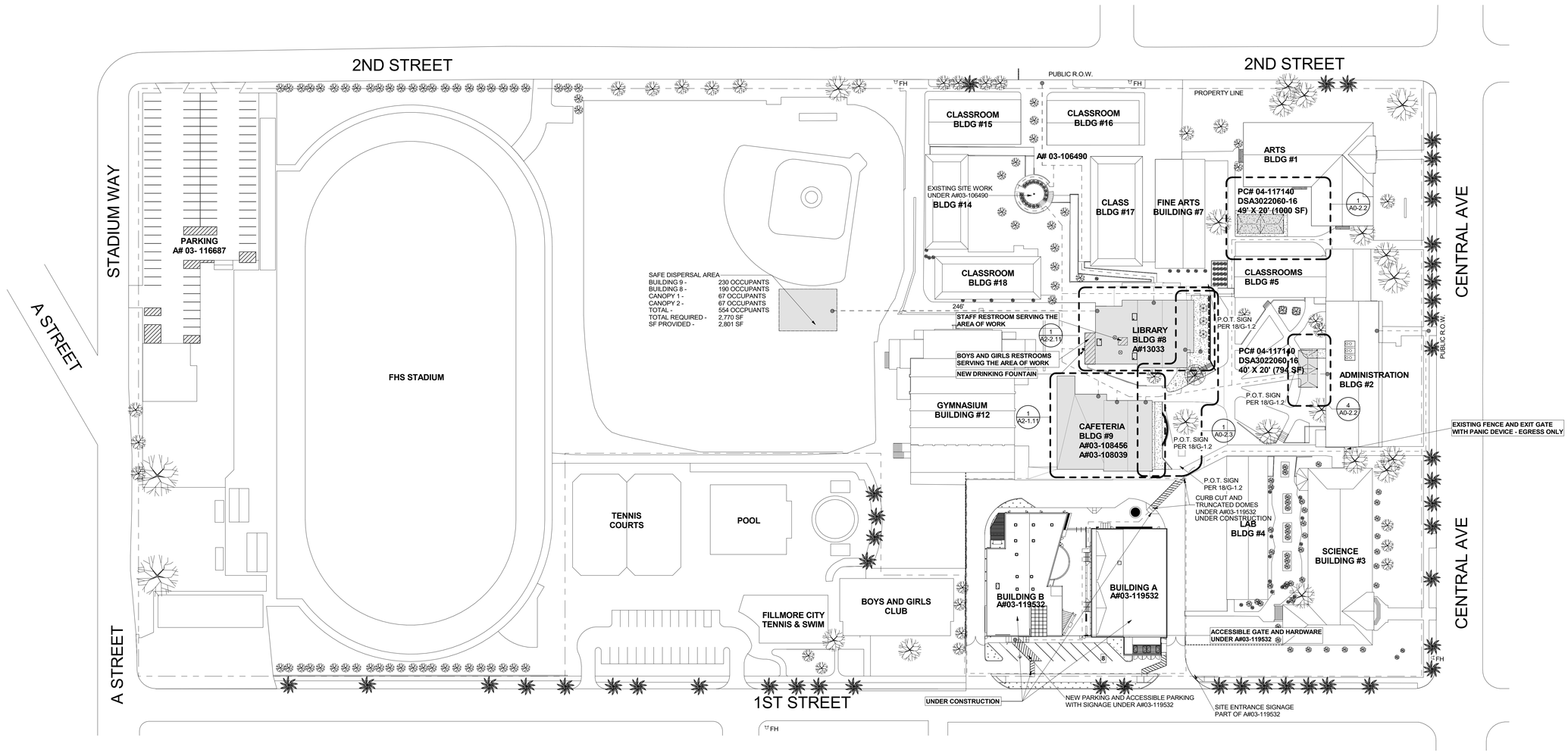

IMPROVEMENT SITE PLAN 1
1" = 50'-0"

PARKING COUNT

EXISTING ON-SITE PARKING PART OF A#03-119532 SCOPE OF WORK

PROVIDED PARKING -

8 STANDARD PARKING SPACES
1 VAN ACCESSIBLE PARKING SPACE
11B-208.2 - 1 TO 25 PARKING SPACES REQUIRE:
1 ACCESSIBLE PARKING SPACE (VAN ACCESSIBLE)

9 TOTAL PARKING SPACES

GENERAL NOTES

1. SEE SHEET G0-1.1 - G0-1.3 FOR ALL ACCESSIBILITY & SIGNAGE REQUIREMENTS AND NOTES.
2. ACCESSIBLE PARKING SIGNAGE PART OF A#03-119532 BASE BUILDING PERMIT. (NOT IN SCOPE) ALL EXISTING SIGNAGE MUST CONFORM TO ACCESSIBILITY SIGNAGE NOTES.
3. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
4. ACCESSIBLE PATH OF TRAVLE AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
5. GRATING LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY SHALL HAVE GRID/OPENINGS IN GRATING LIMITED TO 1/2" MAIMUM CLEAR IN THE DIRECTION OF TRAVEL FLOW.

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERNATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED ANY ELEMENTS, COMPONENETS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

04.16.21
Signature Date

Architect designated to be in general responsible charge

David Jordan Smith	C-20495	01.31.23
Print Name	License Number	Expiration Date

LEGEND

- (E) PATH OF TRAVEL.
- FIRE HOSE (250' MAX FROM TRUCK)
- BUILDING ENTRY POINT / PUBLIC R.O.W.
- BUILDING OR SHADE STRUCTURE IN SCOPE
- ACCESSIBLE RESTROOMS IN SCOPE
- FIRE ACCESS, 20' WIDE
- TRUNCATED DOMES
- FH EXISTING FIRE HYDRANT

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN SMITH C20495 EXP. 01/23 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A0-2.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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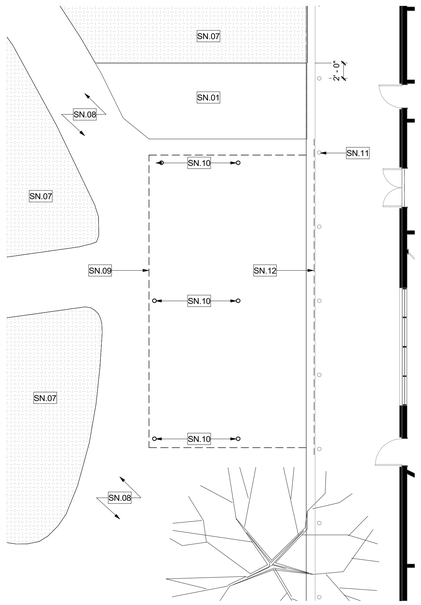
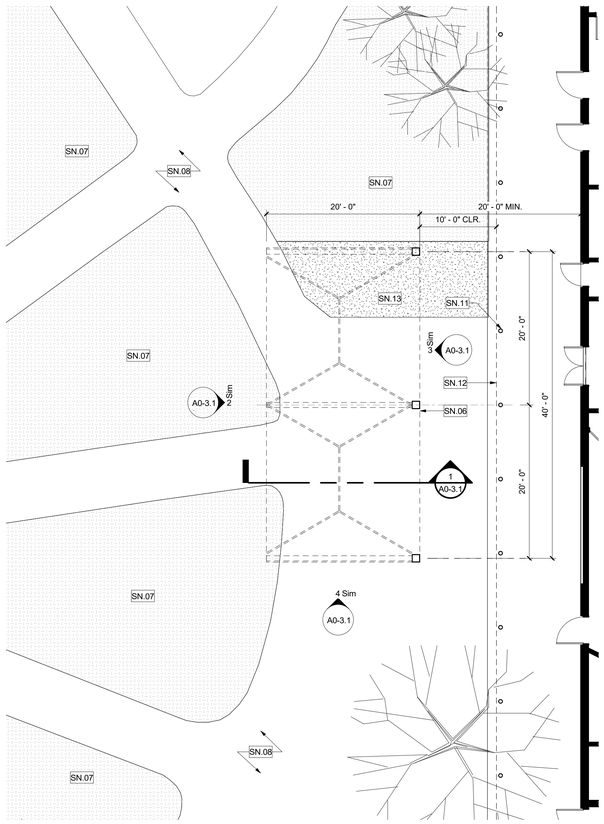
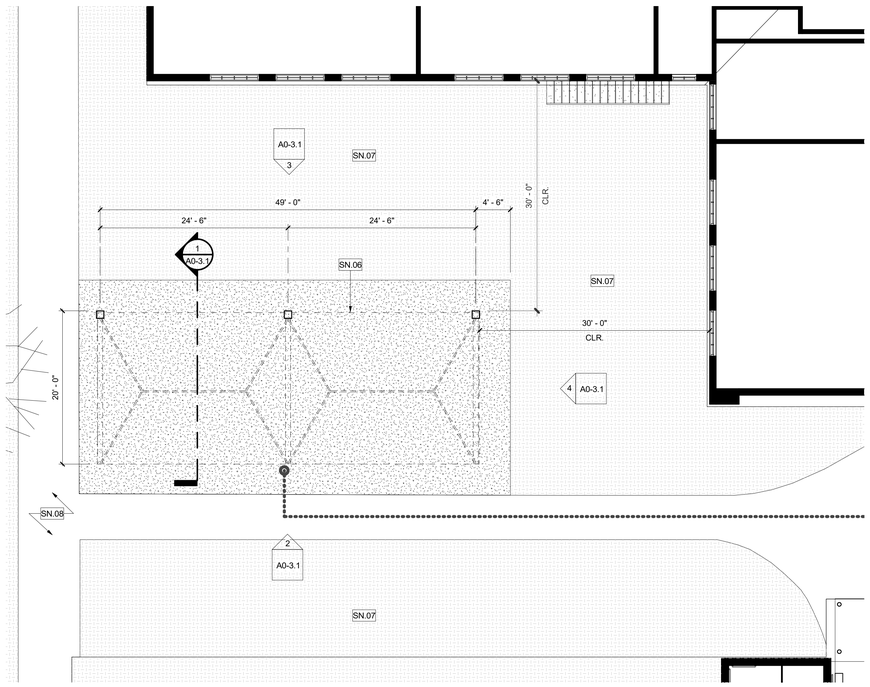


ENLARGED ADMIN. BLDG. YARD DEMO PLAN | 5 | 1/8" = 1'-0"



ENLARGED ADMIN. BUILDING YARD | 4 | 1/8" = 1'-0"



ENLARGED ART BUILDING YARD | 1 | 1/8" = 1'-0"

LEGEND

- (E) LANDSCAPE TO REMAIN
- (N) LANDSCAPE
- (E) HARDSCAPE TO REMAIN
- (N) WALKWAY

GENERAL NOTES

1. SEE SHEET G0-1.1 - G0-1.3 FOR ALL ACCESSIBILITY & SIGNAGE REQUIREMENTS AND NOTES.
2. ACCESSIBLE PARKING SIGNAGE PART OF BASE BUILDING PERMIT. (NOT IN SCOPE) ALL EXISTING SIGNAGE MUST CONFORM TO ACCESSIBILITY SIGNAGE NOTES.
3. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
4. PROPOSED CANOPY IS DSA PRE-APPROVED BY USA SHADE AND FABRIC STRUCTURES. DRAWINGS ON ARCHITECTURAL SHEETS ARE FOR LOCATION, COORDINATION, AND DESIGN INTENT ONLY. REFER TO USA-SHADE DRAWINGS/PACKAGE FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	DEMO (E) LANDSCAPE
SN.02	DEMO (E) RETAINING WALLS
SN.03	(N) RETAINING WALL TO MATCH EXISTING, REFER TO 6/A0-3.2
SN.05	(N) STAIRS AND HANDRAILS
SN.06	(N) DSA PRE-APPROVED CANOPY. SEE SHEETS G-6.1 THROUGH G-6.4.
SN.07	EXISTING LANDSCAPE
SN.08	EXISTING HARDSCAPE
SN.09	EXISTING TRELLIS/CANOPY TO BE DEMOLISHED.
SN.10	EXISTING 4.5" DIA. TRELLIS/CANOPY POSTS TO BE REMOVED. SAWCUT AT BASE AND GRIND DOWN TO HARDSCAPE LEVEL. CAP & FILL WITH CONCRETE. (TYPICAL 6)
SN.11	EXISTING 3.5" DIA. TRELLIS/CANOPY POSTS TO REMAIN (TYP.). PROTECT IN PLACE.
SN.12	PARTIALLY REMOVE EXISTING CANOPY FACIA. PATCH, REPAIR, AND REPAIR LIKE NEW AFTER TRELLIS/CANOPY REMOVAL.
SN.13	EXTEND (E) CONCRETE.
SN.14	EXISTING RAMP, STAIRS, AND HANDRAILS TO REMAIN - NO CHANGE

DSA INFORMATION

DSA PC (PRE-APPROVED) JOINED FULL CANTI HIP CANOPY BY USA SHADE.

DSA PC#: 04-117140

MODEL #: DSA3022060-16

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FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID JORDAN WESTGROUP STATE OF CALIFORNIA
C20495
EXP. 11/30
Renewal Date

SHEET TITLE:

ENLARGED SITE PLANS

SHEET NUMBER:

A0-2.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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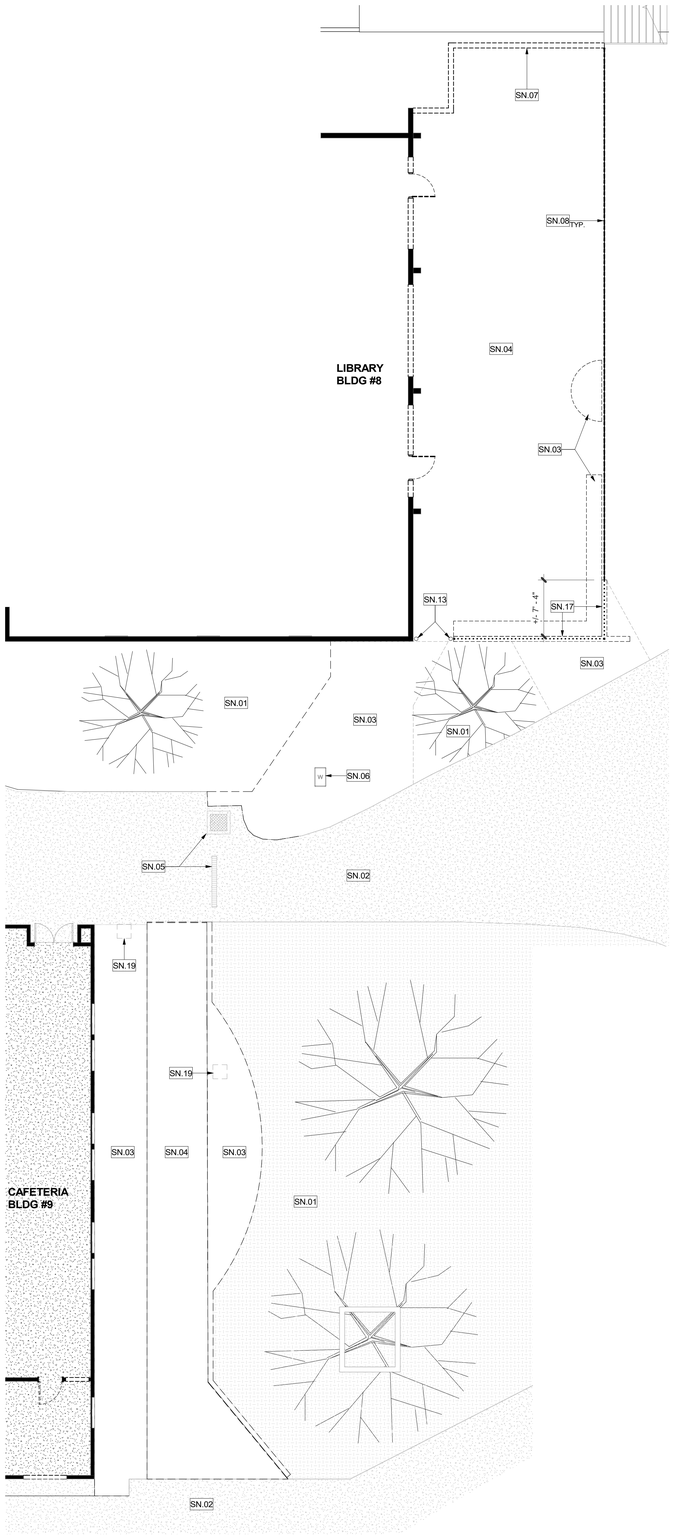
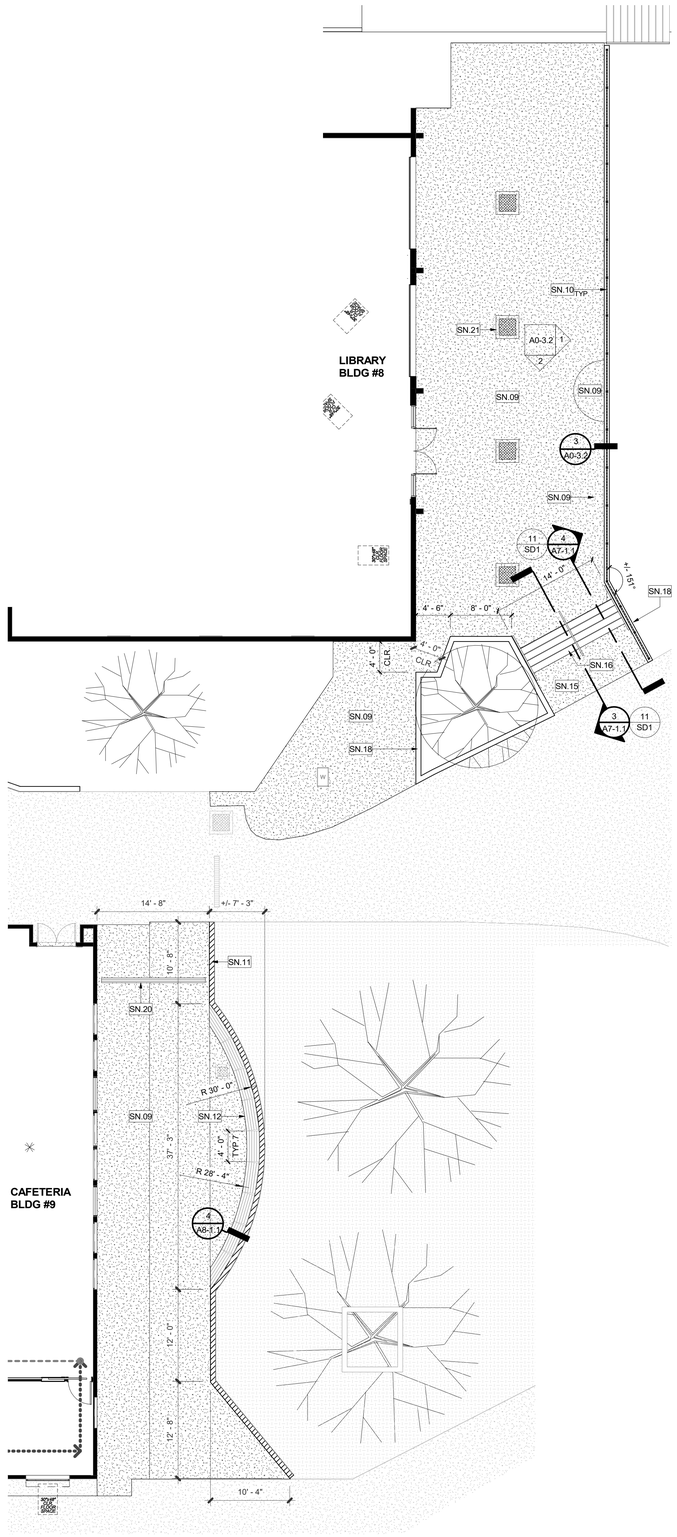


CAFETERIA COURTYARD DEMO PLAN | 2 | 1/8" = 1'-0"



CAFETERIA COURTYARD | 1 | 1/8" = 1'-0"

LEGEND

- (E) LANDSCAPE TO REMAIN
- (N) LANDSCAPE
- (E) HARDSCAPE TO REMAIN
- (N) WALKWAY

GENERAL NOTES

1. SEE SHEET G0-1.1 - G0-1.3 FOR ALL ACCESSIBILITY & SIGNAGE REQUIREMENTS AND NOTES.
2. ACCESSIBLE PARKING SIGNAGE PART OF BASE BUILDING PERMIT. (NOT IN SCOPE) ALL EXISTING SIGNAGE MUST CONFORM TO ACCESSIBILITY SIGNAGE NOTES.
3. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
4. PROPOSED CANOPY IS DSA PRE-APPROVED BY USA SHADE AND FABRIC STRUCTURES. DRAWINGS ON ARCHITECTURAL SHEETS ARE FOR LOCATION, COORDINATION, AND DESIGN INTENT ONLY. REFER TO USA-SHADE DRAWINGS/PACKAGE FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	EXISTING LANDSCAPE TO REMAIN.
SN.02	EXISTING HARDSCAPE TO REMAIN.
SN.03	DEMO EXISTING LANDSCAPE.
SN.04	DEMO EXISTING HARDSCAPE.
SN.05	EXISTING GRATE TO REMAIN. PROTECT IN PLACE. GRATING TO HAVE GRID/OPENINGS OF 1/2" MAXIMUM CLEAR.
SN.06	EXISTING WATER METER TO REMAIN. PROTECT IN PLACE.
SN.07	DEMO EXISTING WALL. PATCH AND REPAIR SIDEWALK TO MATCH EXISTING.
SN.08	DEMO EXISTING CHAINLINK FENCE ABOVE BRICK WALL. PATCH AND REPAIR BRICK WALL AS REQUIRED LIKE NEW AFTER DEMO AND NEW CONSTRUCTION.
SN.09	NEW SIDEWALK/HARDSCAPE TO MATCH EXISTING. SEE CIVIL DRAWINGS.
SN.10	NEW DECORATIVE FENCE. PAINT TO MATCH EXISTING SITE BLUE.
SN.11	NEW CMU WALL PAINTED BLUE TO MATCH EXISTING. SEE SHEET SD3.
SN.12	NEW MONOLITHIC CONCRETE BENCH WITH TREX SLAT SEATS.
SN.13	DEMO EXISTING BLUE POSTS.
SN.15	NEW CONCRETE STAIR LANDING. TIE IN TO EXISTING HARDSCAPE. SEE CIVIL DRAWINGS.
SN.16	NEW STAIRS AND HANDRAILS.
SN.17	PARTIALLY DEMO EXISTING MASONRY WALL. COORDINATE EXTENT WITH CIVIL DRAWINGS.
SN.18	NEW CMU WALL. SEE SHEET SD3.
SN.19	DEMO EXISTING CATCH BASIN. SEE CIVIL DRAWINGS..
SN.20	NEW TRENCH DRAIN. SEE 9/C-1..
SN.21	NEW CATCH BASIN (TYP.4). SEE 5/C-1.

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REGISTRATION/SIGNATURE:
DAVID JORDAN SMITH
LICENSED ARCHITECT
C20495
EXP. 5/31/2023
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:
ENLARGED SITE PLANS

SHEET NUMBER:
A0-2.3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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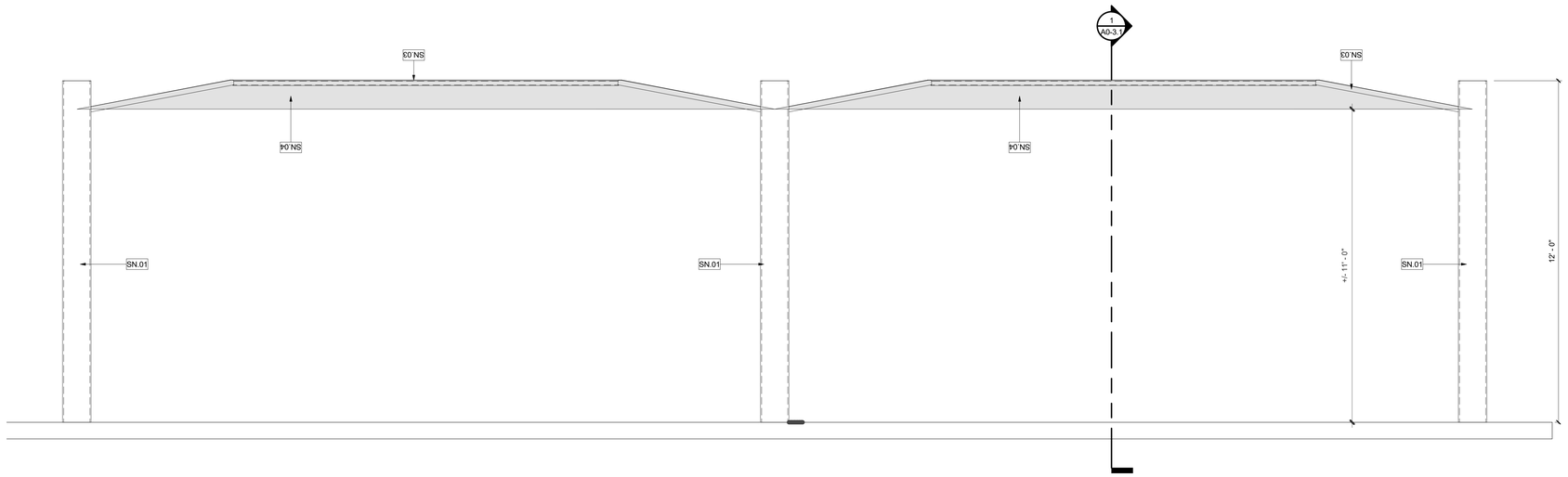
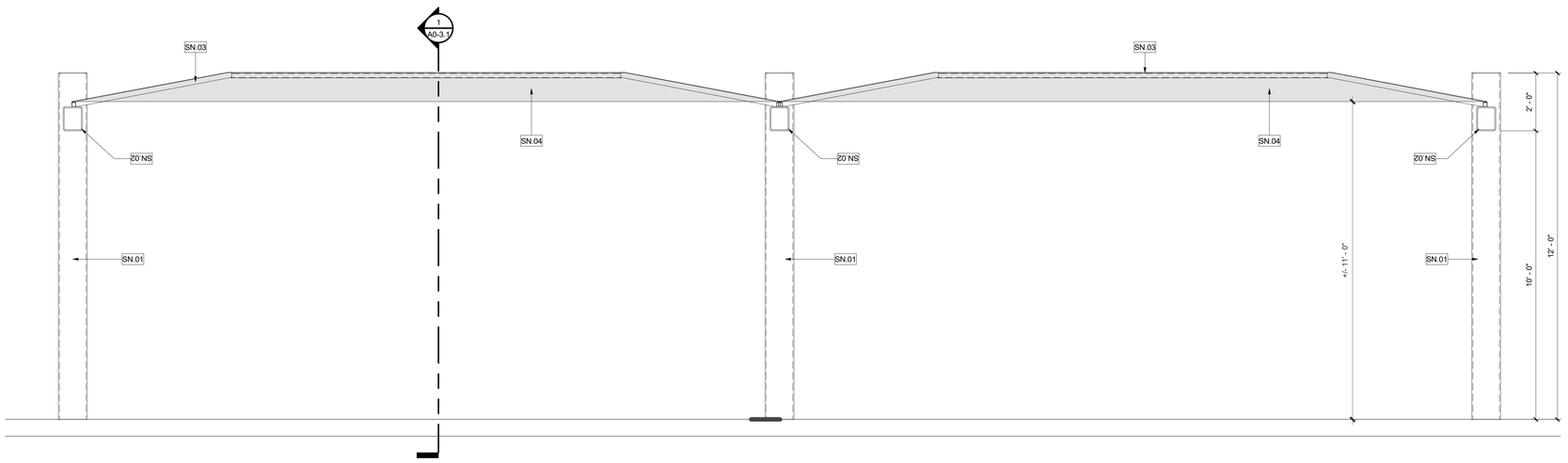
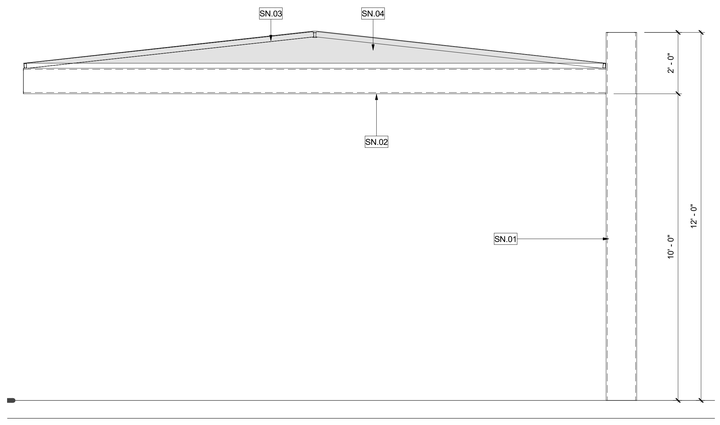


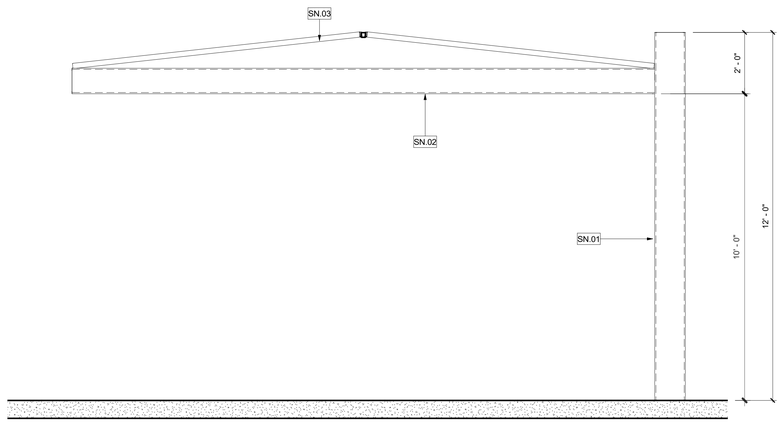
CANOPY NORTH ELEVATION | 3 | 1/2" = 1'-0"



CANOPY SOUTH ELEVATION | 2 | 1/2" = 1'-0"



CANOPY EAST ELEVATION | 4 | 1/2" = 1'-0"



CANOPY SECTION | 1 | 1/2" = 1'-0"

GENERAL NOTES

1. PROPOSED CANOPY IS DSA PRE-APPROVED BY USA SHADE AND FABRIC STRUCTURES. DRAWINGS ON ARCHITECTURAL SHEETS ARE FOR LOCATION, COORDINATION, AND DESIGN INTENT ONLY. REFER TO USA-SHADE DRAWINGS/PACKAGE FOR ADDITIONAL INFORMATION.
2. AWNING FABRIC FOR PROPOSED CANOPY IS DSA CA STATE FIRE MARSHALL APPROVED PER DSA PC# AND MODEL NUMBER.
3. SEE SHEETS G-6.1 THROUGH G-6.4.

DSA INFORMATION

DSA PC (PRE-APPROVED) JOINED FULL CANTI HIP CANOPY BY USA SHADE.

DSA PC#: 04-117140

MODEL #: DSA3022060-16

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	METAL POST/COLUMN
SN.02	CANTILEVERED METAL BEAM
SN.03	METAL FRAME
SN.04	FABRIC AWNING - COLOURSHADE FR PER MANUFACTURER - PASSED NFPA 701/ASTM-E84/CSFM TITLE 19

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 5/20
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

CANOPY SECTION & ELEVATIONS

SHEET NUMBER:

A0-3.1

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20624	Author	Checker	08/26/2021

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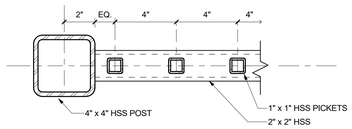
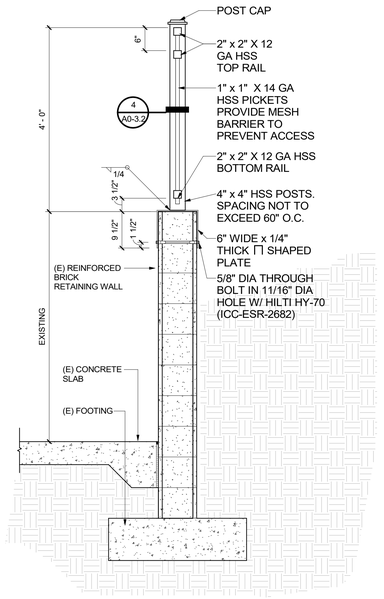
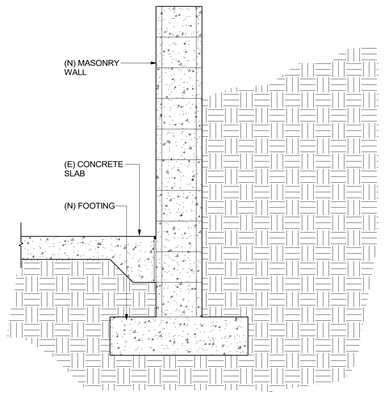


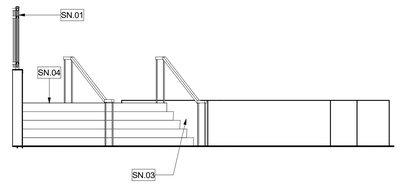
TYPICAL FENCE POST AND PICKET SECTION | 4 | 3" = 1'-0"



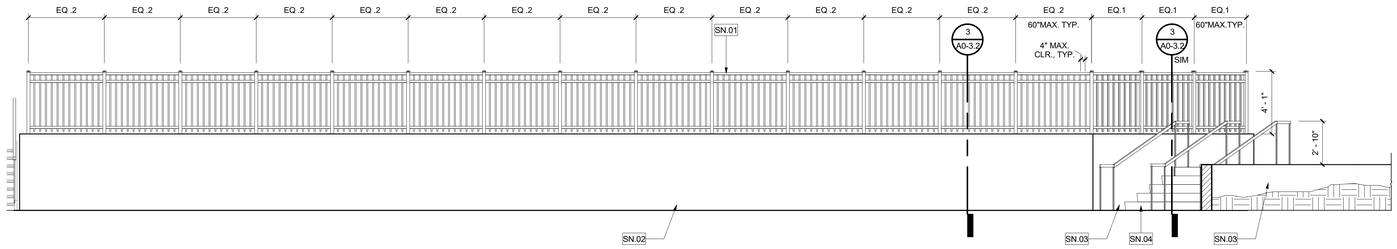
FENCE SECTION | 3 | 3/4" = 1'-0"



MASONRY WALL SECTION | 6 | 3/4" = 1'-0"



PATIO FENCE SOUTH ELEVATION | 2 | 1/4" = 1'-0"



PATIO FENCE EAST ELEVATION | 1 | 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET G0-1.1 - G0-1.3 FOR ALL ACCESSIBILITY & SIGNAGE REQUIREMENTS AND NOTES.
2. ACCESSIBLE PARKING SIGNAGE PART OF BASE BUILDING PERMIT. (NOT IN SCOPE) ALL EXISTING SIGNAGE MUST CONFORM TO ACCESSIBILITY SIGNAGE NOTES.
3. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
4. ALL WELDS TO BE GRINDED DOWN SMOOTH AND CLEANED.
5. REFER TO DETAIL 2/G-1.1 FOR STAIR REQUIREMENTS IN ADDITION TO CIVIL AND STRUCTURAL DRAWINGS.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	NEW DECORATIVE FENCE. PAINT TO MATCH EXISTING SITE BLUE.
SN.02	EXISTING MASONRY WALL TO REMAIN. PROTECT IN PLACE. PATCH AND REPAIR AS REQUIRED AFTER NEW CONSTRUCTION.
SN.03	NEW MASONRY WALL TO MATCH EXISTING, REFER TO 6/A0-3.2.
SN.04	NEW STAIRS AND HANDRAILS.

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID CHRIS SMITH C20495 EXP. 6/30/2023 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:
PATIO FENCE ELEVATIONS & SECTIONS

SHEET NUMBER:
A0-3.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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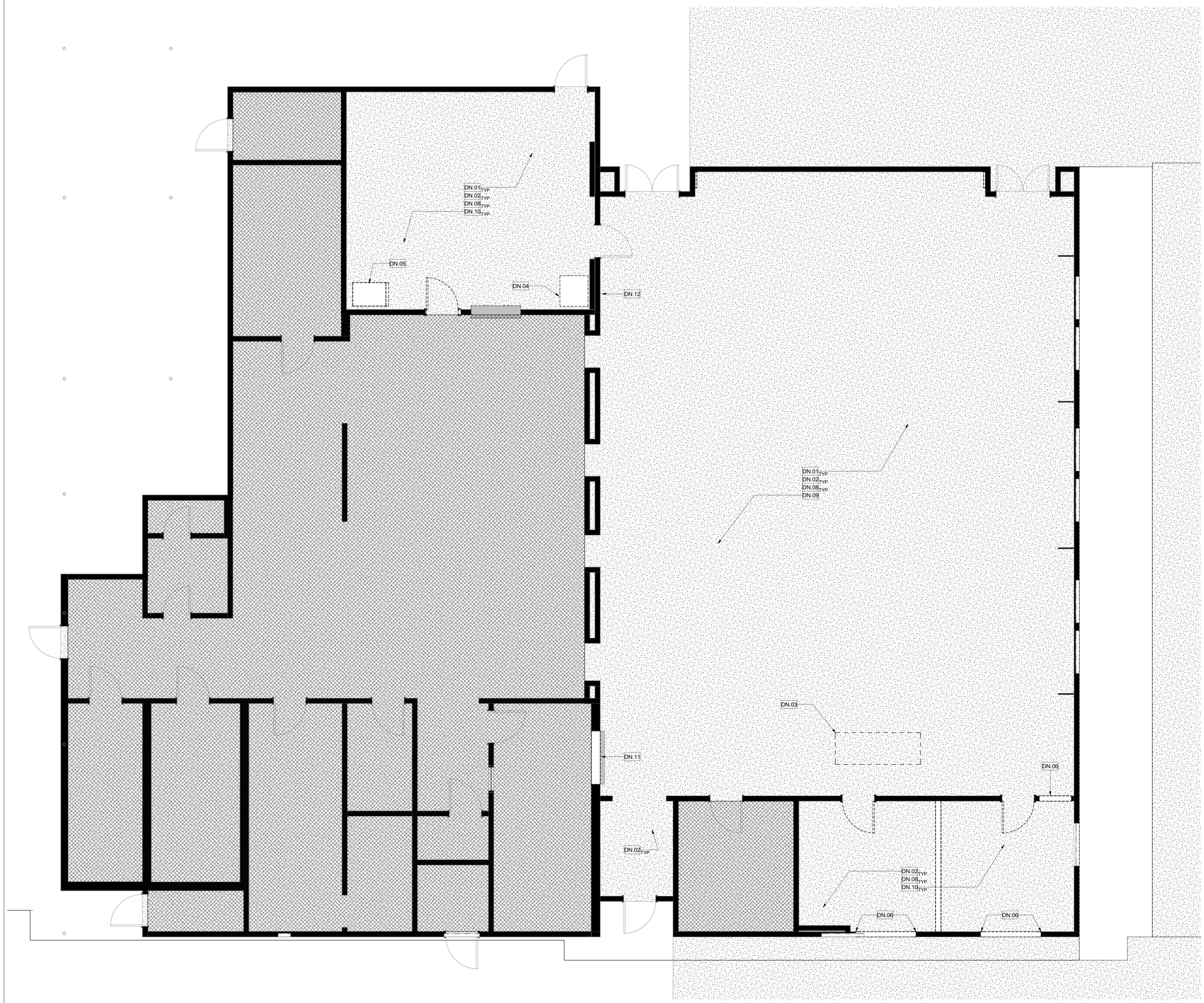


CAFETERIA - DEMOLITION | 1 | 1/4" = 1'-0"

LEGEND

- WALL TO BE REMOVED
- WALL TO REMAIN
- 1 HR FIRE RATED WALL
- DOOR TO BE REMOVED AND SAVED FOR **(REUSE, STORAGE BY OWNER ETC- PICK ONE)**
- DOOR TO REMAIN
- COLUMN
- (E) MILLWORK/EQUIPMENT TO BE REMOVED
- AREA N.I.C.

GENERAL NOTES

1. DEMOLITION, REMOVAL AND PATCHING, SCOPE OF WORK TO INCLUDE:
   a. PROTECTION OF EXISTING WORK TO REMAIN.
   b. TEMPORARY PARTITIONS AND BARRICADES.
   c. REMOVAL OF ITEMS SHOWN.
   d. REMOVAL, STORAGE, PROTECTION AND INSTALLATION OF ITEMS TO BE REUSED.
   e. REMOVAL OF EXISTING ITEMS AS NECESSARY TO PROVIDE FOR NEW CONSTRUCTION.
   f. RELOCATION OF INDICATED ITEMS.
   g. DEBRIS REMOVAL.
   h. PATCHING AS NECESSARY TO MATCH EXISTING.
2. INCLUDE THE REWORKING OF ABUTTING SURFACE AS REQUIRED TO MAKE NEW WORK JOIN AND MATCH EXISTING SURFACES TO REMAIN.
3. DUST BARRIERS: ERECT TEMPORARY DUST BARRIERS OF PLYWOOD OR OTHER ACCEPTABLE MATERIAL WHICH WILL POSITIVELY PREVENT PASSAGE OF DEBRIS AND DUST. SEAL ENTIRE PERIMETER AND ALL JOINTS.
4. ITEMS TO BE REUSED: EXERCISE THE GREATEST POSSIBLE CARE WHEN REMOVING ITEMS SCHEDULED FOR REUSE. USE ONLY MECHANICS SKILLED IN THE APPROPRIATE CRAFTS. IDENTIFY POINT OF REUSE, STORE AND PROTECT AT LOCATIONS DIRECTED.
5. HOLES THROUGH EXISTING CONCRETE CONSTRUCTION TO ACCOMMODATE NEW CONDUIT OR PIPING SHALL BE NEATLY CORED, NOT JACK HAMMERED, TO SATISFY LOCATION AND SIZE REQUIREMENTS OF RESPECTIVE TRADES. COORDINATE WORK WITH VARIOUS CRAFTS TO ASSURE THE PROPER SEQUENCE, LIMITS, METHODS AND TIME OF PERFORMANCE.
6. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS FOR THE PROTECTION OF THE EXISTING FACILITY, CONTENTS AND ANY NEW WORK OF THIS CONTRACT AGAINST RUST, WEATHER, DAMAGE AND NOISE.
7. ITEMS OF EXISTING: WORK INDICATED TO REMAIN UPON COMPLETION OF THE CONTRACT, BUT WHICH REQUIRE REMOVAL, TO COMPLETE THE WORK, SHALL BE CAREFULLY REMOVED AND REPLACED UPON COMPLETION. THE REPLACED WORK SHALL MATCH ITS CONDITION AT THE START OF THE WORK.
8. LEAVE ALL SPACES BROOM CLEAN WITH ALL LEDGES AND CORNERS PROPERLY CLEANED.
9. ALL CORRIDORS, STAIRWAYS, AND LOBBIES ARE TO REMAIN OPERATIONAL AND FREE OF DEBRIS. ALL WORK IN THESE AREAS TO BE PERFORMED AFTER REGULAR BUSINESS HOURS.
10. ALL FLOOR MONUMENTS TO BE REMOVED WHERE OCCURS.
11. PROTECT THE BUILDING OWNER'S PROPERTY, INCLUDING NOT IN CONTRACT AREAS ACCESSIBLE TO CONTRACTOR.
12. IN AREAS WHERE DEMOLITION (REMOVAL OF TILE, CARPETING, PARTITIONS) CAUSES UNEVENNESS IN SLAB, THE CONTRACTOR SHALL PATCH SLAB TO LEVEL PRIOR TO INSTALLATION OF NEW FINISH FLOOR.
13. EXISTING EXTERIOR WINDOW COVERING TO REMAIN U.N.O., CONTRACTOR TO BAG BLINDS AND PROTECT IN PLACE DURING CONSTRUCTION.

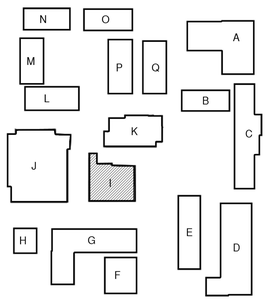
DEMOLITION KEYNOTES

SN#	DESCRIPTION
DN.01	REMOVE AND STORE ALL FURNITURE. COORDINATE WITH DISTRICT REPRESENTATIVE FOR STORAGE AND FINAL PLACEMENT.
DN.02	PROTECT IN PLACE FLS ACCESSORIE AND SIGNAGE.
DN.03	REMOVE AND STORE SALAD BAR FOR RELOCATION AT A LATER DATE.
DN.04	REMOVE AND STORE FRIDGE FOR RELOCATION. CONFIRM PROVIDED UTILITY CONNECTIONS FOR INSTALLATION AT NEW LOCATION.
DN.05	REMOVE AND STORE ICE MACHINE FOR RELOCATION. CONFIRM PROVIDED UTILITY CONNECTIONS FOR INSTALLATION AT NEW LOCATION.
DN.06	REMOVE PORTION OF THE WALL TO CREATE AN OPENING. SEE IMPROVEMENT PLAN.
DN.08	REMOVE ALL LIGHTING, SWITCHES, OUTLETS, TIMERS, WIRING, PIPING AND EQUIPMENT. FOR ANY ITEMS NOT INCLUDED IN THIS LIST, CONTACT ARCHITECT TO CONFIRM ACTION PRIOR TO WORK.
DN.09	PROTECT IN PLACE (E)FLOOR FINISHES IN CAFETERIA.
DN.10	REMOVE FLOORING TO RECEIVE NEW FINISHES.
DN.11	(E) PASS-THROUGH WINDOW AND COUNTER TO REMAIN
DN.12	(E) RECESS TO REMAIN

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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DSA BACK CHECK	08/26/2021

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DONALD J. SMITH C20495 EXP. 5/31 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

CAFETERIA DEMOLITION PLAN

SHEET NUMBER:

A1-1.11

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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LEGEND

- 1' X 1' GRID CEILING TO BE REMOVED
- GYPSUM BOARD CEILING TO BE REMOVED
- 6"X4' TO BE REMOVED
- 6"X8' TO BE REMOVED
- SURFACE MOUNT LIGHT FIXTURE TO BE REMOVED
- OR SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

GENERAL NOTES

1. ALL LIGHTING TO BE REMOVED THROUGHOUT.
2. ALL MECHANICAL DUCTING TO BE REMOVED THROUGHOUT. ***(VERIFY THIS NOTE OR REMOVE)***

DEMOLITION KEYNOTES

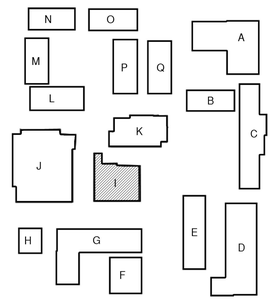
DN.##

SN#	DESCRIPTION
DN.01	PROTECT IN PLACE ALL ELEC/TELE/DATA OUTLETS, SWITCHES, TIMERS, FLS ACCESSORIES, WIRING, PIPING, EQUIPMENT, SIGNAGE, AND RELATED ACCESSORIES. SHOULD ITEMS REQUIRE BEING REMOVED FOR FINISH INSTALLATION, NOTE AND REINSTALL IN CURRENT LOCATION U.N.O. FOR ANY ITEMS NOT INCLUDED IN THIS LIST, CONTACT ARCHITECT TO CONFIRM ACTION PRIOR TO WORK.
DN.02	REMOVE PORTION OF THE WALL TO CREATE NEW OPENING. SEE IMPROVEMENT PLAN.
DN.03	PROTECT IN PLACE HEATING UNITS.
DN.04	REMOVE AND STORE SPEAKERS FOR REINSTALLATION IN CURRENT LOCATION. RETAIN ALL STRUCTURAL ELEMENTS AND ELECTRICAL/DATA CONNECTIONS.
DN.05	REMOVE AND STORE PROJECTOR SCREEN FOR REINSTALLATION IN CURRENT LOCATION. RETAIN ALL STRUCTURAL ELEMENTS AND ELECTRICAL/DATA CONNECTIONS.
DN.06	PROTECT IN PLACE PROJECTOR.
DN.07	CAREFULLY REMOVE AND STORE ALL ARTWORK AND RELATED ACCESSORIES ON WALLS FOR REINSTALLATION.
DN.08	REMOVE AND STORE TV AND ASSOCIATED ACCESSORIES. COORDINATE WITH DISTRICT FOR FINAL LOCATION.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



CAFETERIA - DEMOLITION RCP

1
3/16" = 1'-0"

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ISSUED FOR:

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN SMITH III — STATE OF CALIFORNIA
C20495
EXP. 01/31
Renewal Date

SHEET TITLE:

CAFETERIA DEMOLITION RCP

SHEET NUMBER:

A1-1.12

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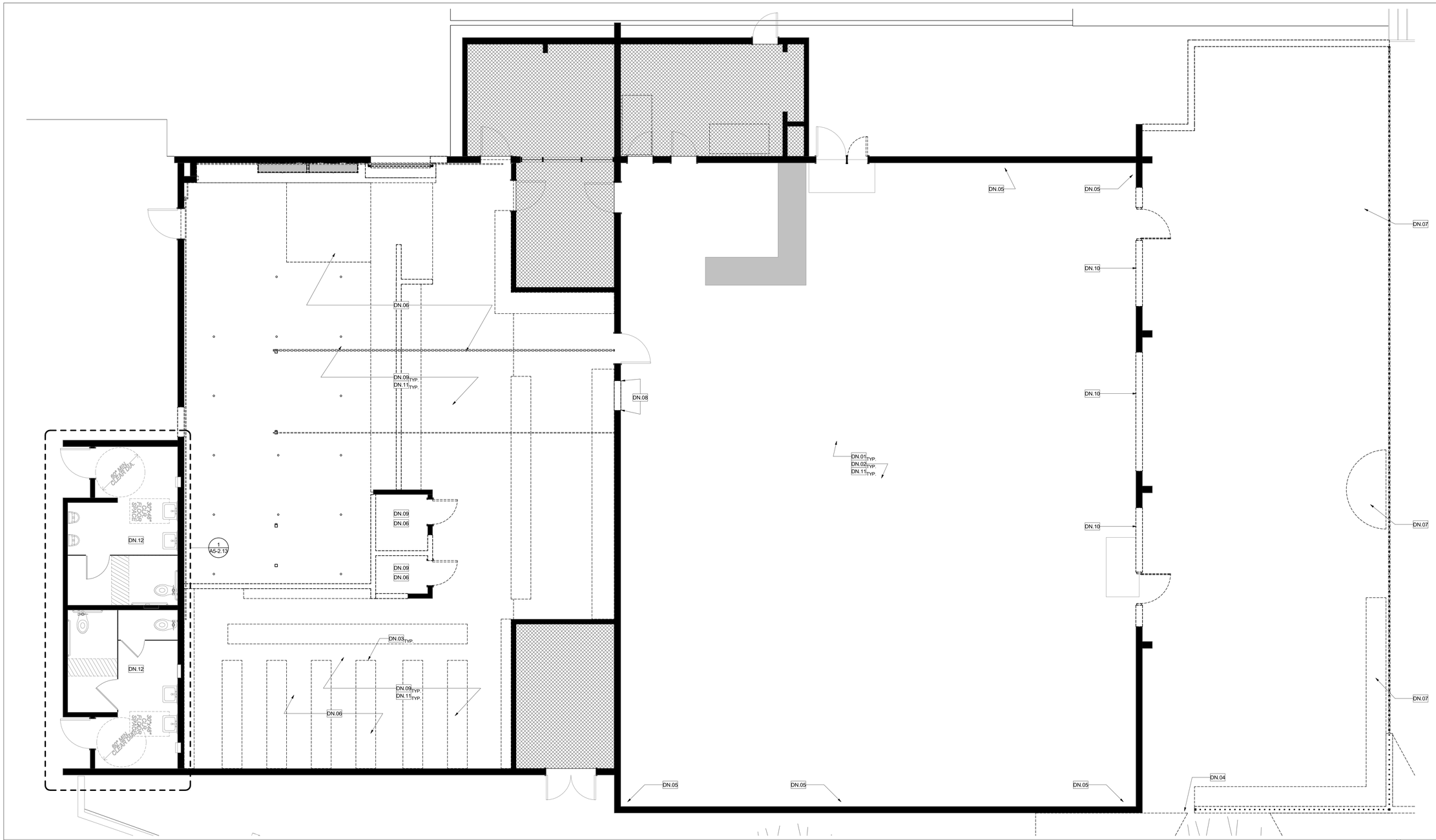


LIBRARY - DEMOLITION | 1 | 1/4" = 1'-0"

DEMOLITION KEYNOTES

SN#	DESCRIPTION
DN.01	REMOVE AND STORE ALL FURNITURE AND EQUIPMENT. COORDINATE WITH DISTRICT REPRESENTATIVE FOR STORAGE AND FINAL PLACEMENT
DN.02	PROTECT IN PLACE FLS ACCESSORIES, SIGNAGE AND FLOORING.
DN.03	REMOVE SHELVING. CONFIRM WITH DISTRICT REPRESENTATIVE WHAT IS STORED FOR REUSE AND WHAT WILL BE DEMOLISHED.
DN.04	DEMO GATE AND RELATED ACCESSORIES
DN.05	REMOVE AND STORE MIRRORS AND RELATED ACCESSORIES
DN.06	DEMO ALL FLOORING. PREPARE EXISTING SUBFLOOR TO RECEIVE NEW FLOORING.
DN.07	REMOVE EXISTING LANDSCAPING AND PREPARE TO INFILL WITH CONCRETE. REMOVE ALL EXISTING IRRIGATION SYSTEMS AND ANY UTILITY CONNECTIONS ASSOCIATED WITH THIS AREAS.
DN.08	DEMO PORTION OF THE WALL TO CREATE AN OPENING. SEE IMPROVEMENT PLAN AND ELEVATIONS.
DN.09	REMOVE ALL LIGHTING, SWITCHES, OUTLETS, TIMERS, WIRING, PIPING AND EQUIPMENT. FOR ANY ITEMS NOT INCLUDED IN THIS LIST, CONTACT ARCHITECT TO CONFIRM ACTION PRIOR TO WORK.
DN.10	DEMO EXISTING STOREFRONT, DOOR, AND LOW WALL.
DN.11	REMOVE ALL ACT ON WALLS, EXCEPT IN READING ROOM
DN.12	EXISTING RESTROOM TO REMAIN.

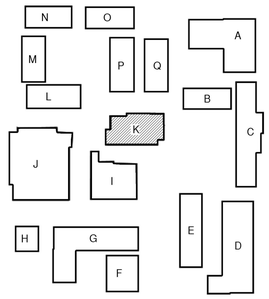
GENERAL NOTES

1. DEMOLITION, REMOVAL AND PATCHING, SCOPE OF WORK TO INCLUDE:
   a. PROTECTION OF EXISTING WORK TO REMAIN.
   b. TEMPORARY PARTITIONS AND BARRICADES.
   c. REMOVAL OF ITEMS SHOWN.
   d. SAW CUT AND CORE EXISTING CONCRETE.
   e. REMOVAL, STORAGE, PROTECTION AND INSTALLATION OF ITEMS TO BE REUSED.
   f. REMOVAL OF EXISTING ITEMS AS NECESSARY TO PROVIDE FOR NEW CONSTRUCTION.
   g. RELOCATION OF INDICATED ITEMS.
   h. DEBRIS REMOVAL.
   i. PATCHING AS NECESSARY TO MATCH EXISTING.
2. INCLUDE THE REWORKING OF ABUTTING SURFACE AS REQUIRED TO MAKE NEW WORK JOIN AND MATCH EXISTING SURFACES TO REMAIN.
3. DUST BARRIERS: ERECT TEMPORARY DUST BARRIERS OF PLYWOOD OR OTHER ACCEPTABLE MATERIAL WHICH WILL POSITIVELY PREVENT PASSAGE OF DEBRIS AND DUST. SEAL ENTIRE PERIMETER AND ALL JOINTS.
4. ITEMS TO BE REUSED: EXERCISE THE GREATEST POSSIBLE CARE WHEN REMOVING ITEMS SCHEDULED FOR REUSE. USE ONLY MECHANICS SKILLED IN THE APPROPRIATE CRAFTS. IDENTIFY POINT OF REUSE, STORE AND PROTECT AT LOCATIONS DIRECTED.
5. REMOVE ALL WALLS SHOWN DASHED AND ITEMS LOCATED ON WALLS, INCLUDING BUT NOT LIMITED TO ELEC/TELE/DATA OUTLETS, SWITCHES, TIMERS, ETC.
6. HOLES THROUGH EXISTING CONCRETE CONSTRUCTION TO ACCOMMODATE NEW CONDUIT OR PIPING SHALL BE NEATLY CORED, NOT JACK HAMMERED, TO SATISFY LOCATION AND SIZE REQUIREMENTS OF RESPECTIVE TRADES. COORDINATE WORK WITH VARIOUS CRAFTS TO ASSURE THE PROPER SEQUENCE, LIMITS, METHODS, AND TIME OF PERFORMANCE.
7. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS FOR THE PROTECTION OF THE EXISTING FACILITY, CONTENTS, AND ANY NEW WORK OF THIS CONTRACT AGAINST RUST, WEATHER, DAMAGE AND NOISE.
8. ITEMS OF EXISTING: WORK INDICATED TO REMAIN UPON COMPLETION OF THE CONTRACT, BUT WHICH REQUIRE REMOVAL TO COMPLETE THE WORK, SHALL BE CAREFULLY REMOVED AND REPLACED UPON COMPLETION. THE REPLACED WORK SHALL MATCH ITS CONDITION AT THE START OF THE WORK.
9. LEAVE ALL SPACES BROOM CLEAN WITH ALL LEDGES AND CORNERS PROPERLY CLEANED.
10. ALL CORRIDORS, STAIRWAYS, AND LOBBIES ARE TO REMAIN OPERATIONAL AND FREE OF DEBRIS. ALL WORK IN THESE AREAS TO BE PERFORMED AFTER REGULAR BUSINESS HOURS.
11. ALL FLOOR MONUMENTS TO BE REMOVED AND CAPPED WHERE OCCUR.
12. PROTECT THE BUILDING OWNER'S PROPERTY, INCLUDING NOT IN CONTRACT AREAS ACCESSIBLE TO CONTRACTOR.
13. IN AREAS WHERE DEMOLITION (REMOVAL OF TILE, CARPETING, PARTITIONS) CAUSES UNEVENNESS IN SLAB, THE CONTRACTOR SHALL PATCH SLAB TO LEVEL PRIOR TO INSTALLATION OF NEW FINISH FLOOR.
14. EXISTING EXTERIOR WINDOW COVERING TO REMAIN U.N.O., CONTRACTOR TO BAG BLINDS AND PROTECT IN PLACE DURING CONSTRUCTION.

LEGEND

- WALL TO BE REMOVED
- WALL TO REMAIN
- 1 HR FIRE RATED WALL
- DOOR TO BE REMOVED AND SAVED FOR **(REUSE, STORAGE BY OWNER ETC- PICK ONE)**
- DOOR TO REMAIN
- COLUMN
- (E) MILLWORK/EQUIPMENT TO BE REMOVED
- AREA N.I.C.

KEY PLAN



BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
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P. CLASSROOM
Q. DRAMA AND MUSIC

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REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT JORDAN SMITH C20495 EXP. 5/31/23 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY DEMOLITION PLAN

SHEET NUMBER:

A1-2.11

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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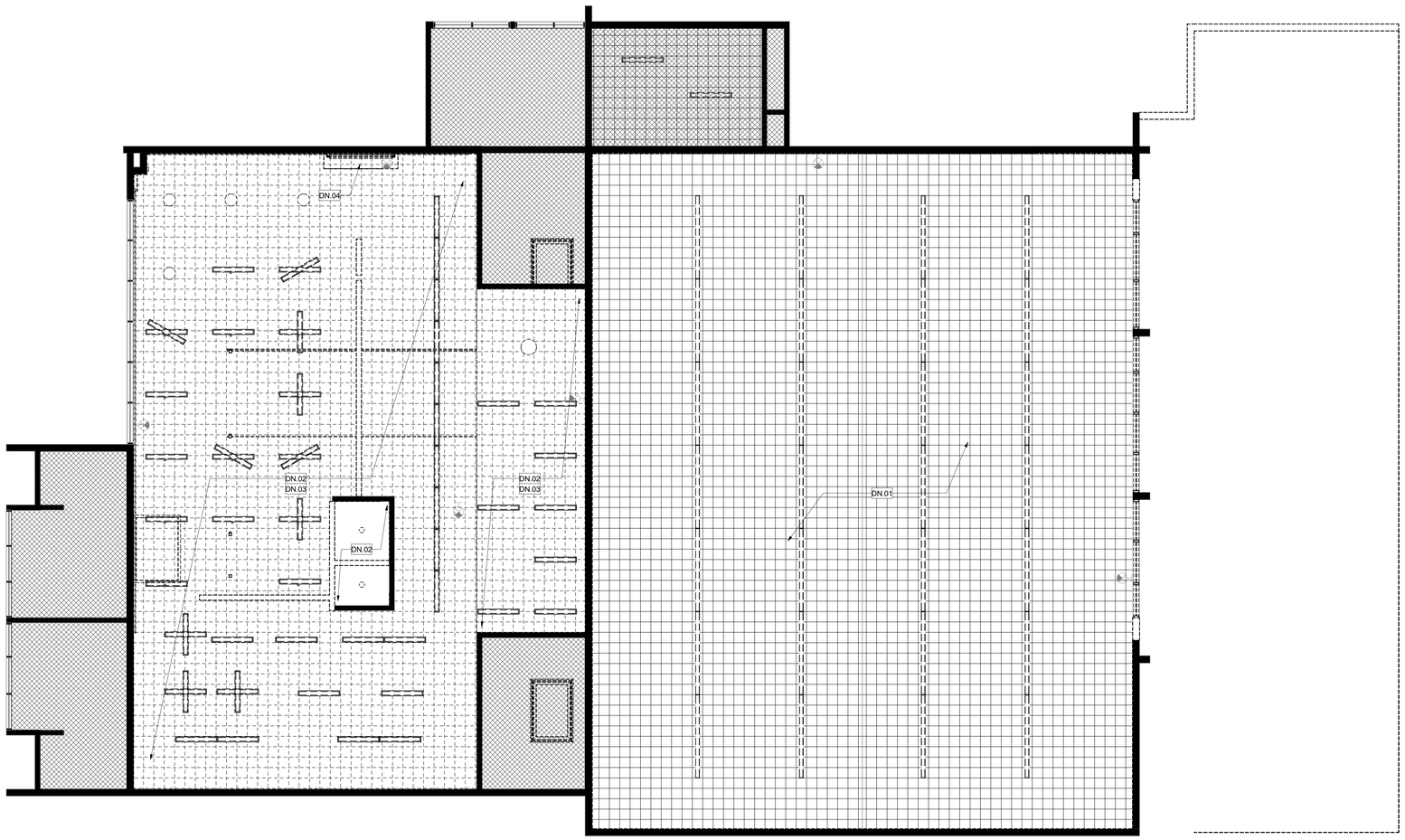

LEGEND

- 1' X 1' GRID CEILING TO BE REMOVED
- GYPSUM BOARD CEILING TO BE REMOVED
- 6"X4' TO BE REMOVED
- 6"X8' TO BE REMOVED
- SURFACE MOUNT LIGHT FIXTURE TO BE REMOVED
- OR SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

GENERAL NOTES

1. ALL LIGHTING TO BE REMOVED THROUGHOUT.
2. ALL MECHANICAL DUCTING TO BE REMOVED THROUGHOUT. ***(VERIFY THIS NOTE OR REMOVE)***

DEMOLITION KEYNOTES

SN#	DESCRIPTION
DN.01	PROTECT EXISTING CEILING IN READING ROOM. ALL LIGHTS TO BE REMOVED.
DN.02	REMOVE ALL CEILINGS AND LIGHTS TO RECEIVE NEW FINISIHES AND FIXTURES.
DN.03	REMOVE ALL ACT ON WALLS, EXCEPT IN READING ROOM
DN.04	REMOVE (E) ROLL-UP DOOR AND INFILL THE OPENING. SEE IMPROVEMENT PLAN.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
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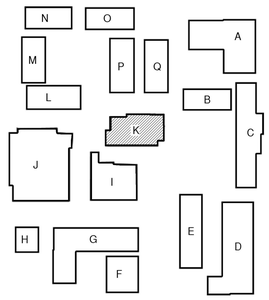
Q. DRAMA AND MUSIC



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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID A. SMITH C20495 EXP. 6/30 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY DEMOLITION RCP

SHEET NUMBER:

A1-2.12

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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LIBRARY - DEMO ROOF

1
3/16" = 1'-0"

LEGEND

(E) B.U.R. TO REMAIN.

GENERAL NOTES

1. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR EQUIPMENT SCOPE.
2. EXISTING ROOF STRUCTURE, SHEATHING, AND B.U.R. TO REMAIN.
3. EXISTING ROOF DRAINS ASSEMBLY AND EXISTING OVERFLOWS TO REMAIN.
4. EXISTING VENTS AND EXHAUST TO BE REMOVED/REMAIN PER MEP DRAWINGS.
5. EXISTING ELECTRICAL CONDUIT TO BE REMOVED/REMAIN PER ELECTRICAL DRAWINGS.
6. EXISTING ROOF MOUNTED DUCT WORK TO REMAIN PER MEP DRAWINGS (NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARITY).

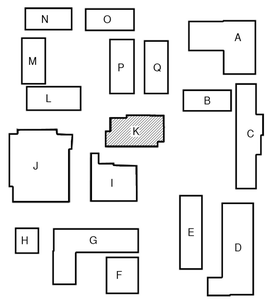
SHEET KEYNOTES

SN#	DESCRIPTION
DN.01	DEMO EXISTING RTU'S AND CORRESPONDING CURBS PER MECHANICAL DRAWINGS. EXISTING ROOF MOUNTED DUCTWORK TO REMIAN PER MECHANICAL DRAWINGS

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

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FILLMORE, CA 93015

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DSA BACK CHECK	04/23/2021
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REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 5/30
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY DEMOLITION ROOF PLAN

SHEET NUMBER:

A1-2.13

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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SIGNAGE SCHEDULE

SIGN TYPE	TAG	TEXT LINE 1	TEXT LINE 2	DETAIL REFERENCE	MOUNTING LOCATION	BRAILLE	COMMENTS
A	SG	EXIT		9/G-1.2	WALL		
B	SG	EXIT		9/G-1.2	WALL		
B	SG	EXIT ROUTE		9/G-1.2	WALL		
C	SG	MEN		9/G-1.2	WALL		
D	SG	WOMEN		9/G-1.2	WALL		
E	SG	ASSISTIVE LISTENING	SYSTEM	17/G-1.2	WALL		
G	SG	ROOM NAME		9/G-1.2	WALL		
H	SG			12/G-1.2	WALL		INTERNATIONAL SYMBOL OF ACCESSIBILITY
H	SG			12/G-1.2	WALL		INTERNATIONAL SYMBOL OF ACCESSIBILITY

LEGEND

(E) WALL TO REMAIN

WOOD STUD WALL: TYPE A U.O.N.

MILLWORK, SEE MILLWORK DETAILS

SINK:
AT PLAM SURFACE: PROVIDE TOP MOUNT SINK
AT SOLID SURFACE: PROVIDE UNDER-MOUNT SINK

WALL REFERENCE

WALL TYPE
STUD SIZE
ACOUSTIC BATT INSULATION
LOW PARTITION HEIGHT (WHERE OCCURS)

(TYPICAL WALL TYPE **A** UNLESS OTHERWISE NOTED) SEE ***1/A9-1.1***

DOOR REFERENCE

DOOR TAG SEE ***A6-1.1***

WINDOW OR LOUVER REFERENCE

WINDOW TYPE SEE ***A5-2.12***

AREA N.I.C.

GENERAL NOTES

1. ALL WALLS FINISHED TO BE DRYWALL LEVEL 4 U.N.O.
2. GENERAL CONTRACTOR TO LAYOUT ALL CHALK LINES PRIOR TO PARTITION CONSTRUCTION. SHOULD ANY DISCREPANCIES OCCUR, GENERAL CONTRACTOR IS TO REVIEW WITH THE ARCHITECT IN THE FIELD TO RESOLVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. USE MOISTURE RESISTANT GYPSUM BOARD ON ALL RESTROOMS AND WET WALLS.
4. PROVIDE MINIMUM GYPSUM BOARD FURRING AROUND ALL EXPOSED COLUMNS TO 6" ABOVE SUSPENDED CEILING.
5. PREPARE EXISTING AND NEW SURFACES FOR INSTALLATION OF SPECIFIED FINISHES. ALL SURFACES SHALL BE FREE FROM ADHESIVE, BUMPS, CRACKS, AND MEET THE REQUIREMENTS OF THE FINISH MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF CEMENT PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, U.N.O.
7. PROVIDE METAL CORNER BEAD AT ALL OUTSIDE CORNERS OF CEMENT PLASTER OR GYPSUM BOARD SURFACES UNLESS NOTED OTHERWISE.
8. PRIOR TO INSTALLATION, FIRE AUTHORITY HAVING JURISDICTION SHALL BE CALLED TO FIELD VERIFY LOCATIONS AND TYPES OF FIRE EXTINGUISHERS AND KNOX BOXES.
9. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT AND MILLWORK PER DETAIL 11/A9-1.2. COORDINATE WITH ARCHITECT FOR ANY UNFORSEEN CONDITIONS.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	OWNER-FURNISHED, CONTRACTOR INSTALLED TV. PROVIDE BACKING PER 13/SD1, PROVIDE REQUIRED ELECTRICAL AND DATA CONNECTIONS
SN.02	INFILL EXISTING OPENING TO MATCH EXISTING.
SN.03	PROVIDE NEW OPENING AND OVERHEAD ROLL UP DOOR. PATCH AND REPAIR EXTERIOR STUCCO TO MATCH EXISTING.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
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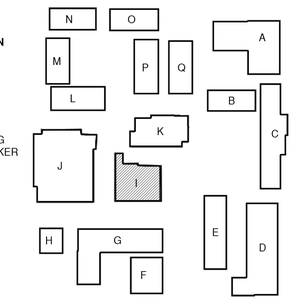

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REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
CAFETERIA IMPROVEMENT PLAN

SHEET NUMBER:
A2-1.11

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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FINISH SCHEDULE

TAG	ITEM	MANUFACTURER	SPEC	SIZE	COLOR	INSTALLATION	NOTES	CONTACT
B1	RUBBER BASE	TARKETT	TIGHTLOCK TYPE TS, 75' COIL	4 1/2"	TBD	-	-	TBD
B2	RUBBER BASE	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	-	-	-
B3	COVED SHAPED PROFILE	SCHLUTER	DILEX-HKU	-	BRUSHED STAINLESS STEEL	-	-	TBD
C1	CARPET	MANNINGTON	CROSSTALK	24"X24"	VIDEO DECODER	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT1	RESILIENT FLOORING	MANNINGTON	SPACIA - WOOD	7.25"X48"	HAMPTON OAK	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT2	RESILIENT FLOORING	MANNINGTON	COLOR ANCHOR - GROOVE	6"X36"	BUZZY YELLOW	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT3	RESILIENT FLOORING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	-	-	-
P1	FIELD PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	WHITE FLOUR SW7102	-	-	TBD
P2	FIELD PAINT	MATCH TO EXISTING	MATCH TO EXISTING	-	MATCH TO EXISTING	-	-	-
P3	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	STAY IN LIME SW9032	-	-	TBD
P4	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	JAY BLUE SW6797	-	-	TBD
P5	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	CHELSEA GRAY SW2850	-	-	TBD
P6	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	WESTCHESTER GRAY SW2849	-	-	TBD
PL1	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD - WHITE?	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
PL2	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
PL3	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
S1	SOLID SURFACE	WILSONART	SOLID SURFACE	-	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
T1	PORCELAIN FLOOR TILE	TBD	TBD	TBD	TBD	-	-	TBD
T2	CERAMIC WALL TILE	TBD	TBD	TBD	TBD	-	-	TBD
T3	CERAMIC WALL TILE	TBD	TBD	TBD	TBD - ACCENT COLOR	-	-	TBD

FINISH SCHEDULE NOTES

1. PRIOR TO FABRICATION PROVIDE DRAW DOWN FOR ARCHITECTS REVIEW AND APPROVAL.
2. PROVIDE 2 COATS, EGGSHELL FINISH.
3. AT CEILINGS AND SOFFITS, PROVIDE 2 COATS, FLAT FINISH.
4. GROUT JOINT TO BE 1/8", BASIS OF DESIGN: CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMACE GROUT, OR EQUAL.
5. STRAIGHT BASE AT CARPET, COVED BASE AT RESILIENT FLOORING.
6. INSTALL AT ALL EXPOSED SURFACES.
7. MITER ALL EXTERIOR CORNERS.

CAFETERIA - FINISH

1

1/4" = 1'-0"

LEGEND

- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK
- T1 / F1 — MILLWORK TAG; FINISH - TOP SURFACE; FINISH - FACE SURFACE
- FLOOR FINISH 1 / FLOOR FINISH 2 — FLOOR MATERIAL TRANSITION, SEE 5 / A9-1.2 WHERE OCCURS.
- CG — 2" SURFACE MOUNTED CORNER GUARD INPRO - 160BN BULLNOSE, COLOR: TBD 48" ABOVE BASE, SEE 10 / A9-1.2

GENERAL NOTES

1. PREPARE EXISTING AND NEW SURFACES FOR INSTALLATION OF SPECIFIED FINISHES. ALL SURFACES SHALL BE FREE FROM ADHESIVE, BUMPS,CRACKS, AND MEET THE REQUIREMENTS OF THE FINISH MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS OTHERWISE NOTED.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYP. BD.
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/2" MAX. IN 10'-0" SPAN.
10. ALL CERAMIC, PORCELAIN, AND VCT TO BE INSTALLED WITH FULL TILE FROM TRANSITION AT DOOR AND FULL TILE FROM WALL PERPENDICULAR TO DOOR, U.N.O.
11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. DELETE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	KEEP EXISTING FLOOR FINISHES IN CAFETERIA AND STAFF BREAK U.N.O.
SN.02	PAINT ALL WALLS, STRUCTURE, ACOUSTIC TILES, SURFACE POWER CONDUITS, AND CEILING SURFACES WITH P1 U.N.O. DO NOT PAINT OVER ANY IDENTIFYING MARKERS. SHOULD ITEMS REQUIRE BEING REMOVED FOR FINISH INSTALLATION, NOTE AND REINSTALL IN CURRENT LOCATION U.N.O. FOR ANY ITEMS NOT INCLUDED IN THIS LIST, CONTACT ARCHITECT TO CONFIRM ACTION PRIOR TO WORK.

KEY PLAN

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D. SCIENCE
E. SOCIAL STUDIES
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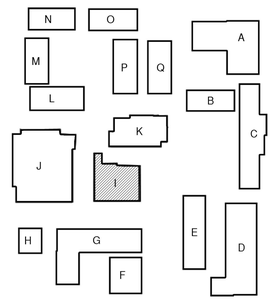

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT JORDAN SMITH C20495 EXP. 5/31/23 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

CAFETERIA FINISH PLAN

SHEET NUMBER:

A2-1.12

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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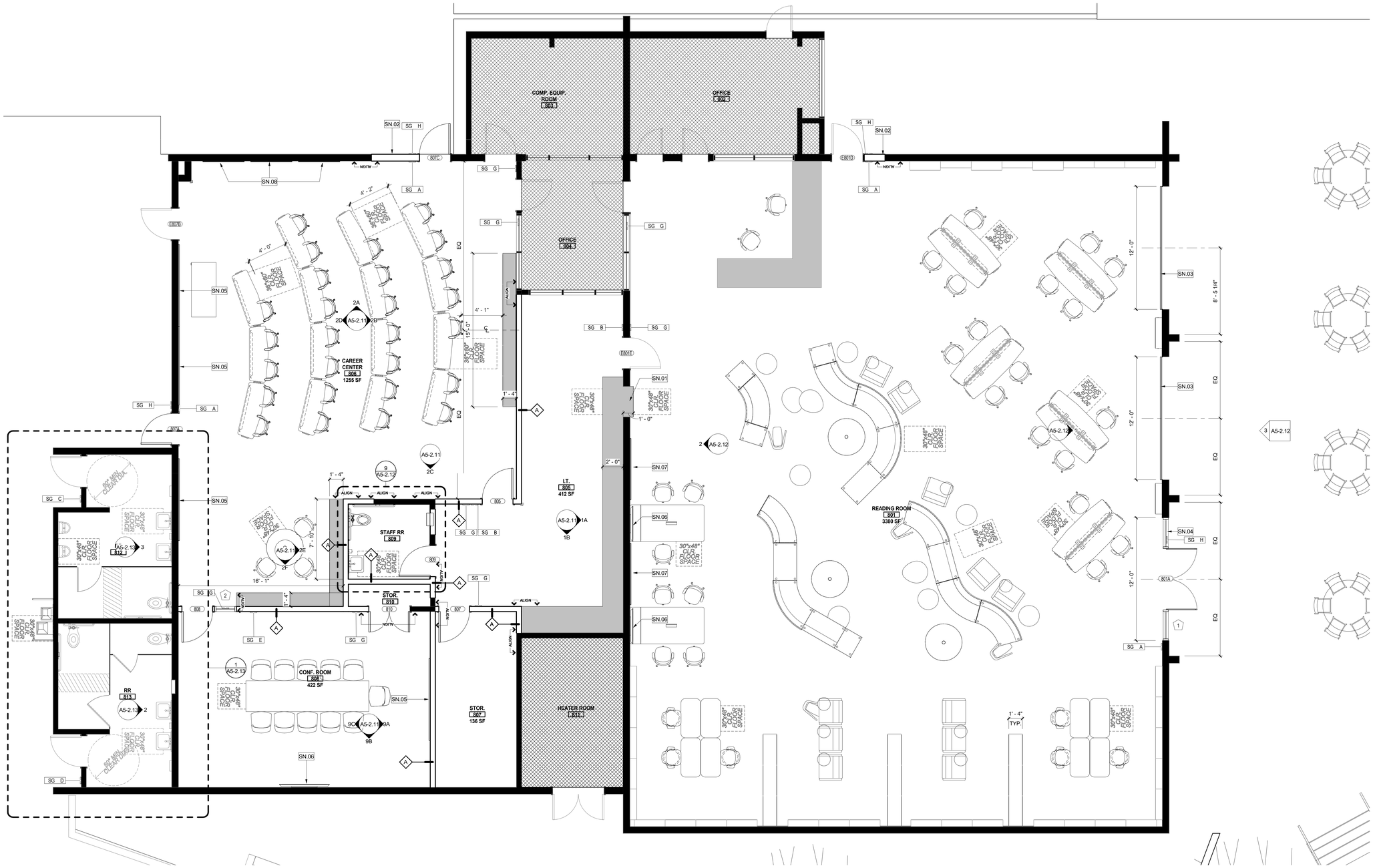

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	CREATE 3' WIDE OPENING FOR A PASS-THROUGH WINDOW WITH TRANSACTION COUNTER.
SN.02	INFILL EXISTING OPENING. MATCH EXTERIOR FINISH AND TEXTURE OF ADJACENT SURFACES.
SN.03	MOTORIZED OVEHEAD ROLL-UP GARAGE DOOR
SN.04	ALUMINUM STOREFRONT.
SN.05	4'X8' WHITE BOARD - PORCELAIN FINISH WHITE BOARD WITH ALUMINM TRIM & MARKER RAIL. PROVIDE BACKING AS NEEDED.
SN.06	OWNER-FURNISHED, CONTRACTOR INSTALLED TV. PROVIDE BACKING PE 13/SD1, PROVIDE REQUIRED ELECTRICAL AND DATA CONNECTIONS. T.V. AND MOUNT SHALL NOT PROJECT MORE THAN 4 INCHES FROM THE WALL.
SN.07	PROJECTION SCREEN MOUNTED ON WALL. PROVIDED BACKING PER 13/SD1. SCREEN SHALL NOT PROJECT MORE THAN 4 INCHES FROM THE WALL.
SN.08	4'X5' TAK BOARD. PROVIDE BACKING AS NEEDED.

GENERAL NOTES

1. ALL WALLS FINISHED TO BE DRYWALL LEVEL 4 U.N.O.
2. GENERAL CONTRACTOR TO LAYOUT ALL CHALK LINES PRIOR TO PARTITION CONSTRUCTION. SHOULD ANY DISCREPANCIES OCCUR, GENERAL CONTRACTOR IS TO REVIEW WITH THE ARCHITECT IN THE FIELD TO RESOLVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. USE MOISTURE RESISTANT GYPSUM BOARD ON ALL RESTROOMS AND WET WALLS.
4. PROVIDE MINIMUM GYPSUM BOARD FURRING AROUND ALL EXPOSED COLUMNS TO 6" ABOVE SUSPENDED CEILING.
5. PREPARE EXISTING AND NEW SURFACES FOR INSTALLATION OF SPECIFIED FINISHES. ALL SURFACES SHALL BE FREE FROM ADHESIVE, BUMPS, CRACKS, AND MEET THE REQUIREMENTS OF THE FINISH MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF CEMENT PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, U.N.O.
7. PROVIDE METAL CORNER BEAD AT ALL OUTSIDE CORNERS OF CEMENT PLASTER OR GYPSUM BOARD SURFACES UNLESS NOTED OTHERWISE.
8. PRIOR TO INSTALLATION, FIRE AUTHORITY HAVING JURISDICTION SHALL BE CALLED TO FIELD VERIFY LOCATIONS AND TYPES OF FIRE EXTINGUISHERS AND KNOX BOXES.
9. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT AND MILLWORK PER DETAIL 11/A9-1.2. COORDINATE WITH ARCHITECT FOR ANY UNFORSEEN CONDITIONS.

LEGEND

(E) WALL TO REMAIN

WOO STUD WALL: TYPE A U.O.N.

MILLWORK, SEE MILLWORK DETAILS

WALL REFERENCE

A — 6" A — 6'-0" — WALL TYPE, STUD SIZE, ACOUSTIC BATT INSULATION; LOW PARTITION HEIGHT (WHERE OCCURS)

(TYPICAL WALL TYPE **A** UNLESS OTHERWISE NOTED) SEE ***1/A9-1.1***

DOOR REFERENCE

000A — DOOR TAG SEE ***A6-1.1***

WINDOW OR LOUVER REFERENCE

X — WINDOW TYPE SEE ***A5-2.12***

AREA N.I.C.

SINK:
AT PLAM SURFACE: PROVIDE TOP MOUNT SINK
AT SOLID SURFACE: PROVIDE UNDER-MOUNT SINK

SIGNAGE SCHEDULE

SIGN TYPE	TAG	TEXT LINE 1	TEXT LINE 2	DETAIL REFERENCE	MOUNTING LOCATION	BRAILLE	COMMENTS
A	SG	EXIT		9/G-1.2	WALL		
B	SG	EXIT		9/G-1.2	WALL		
B	SG	EXIT ROUTE		9/G-1.2	WALL		
C	SG	MEN		9/G-1.2	WALL		
D	SG	WOMEN		9/G-1.2	WALL		
E	SG	ASSISTIVE LISTENING	SYSTEM	17/G-1.2	WALL		
G	SG	ROOM NAME		9/G-1.2	WALL		
H	SG			12/G-1.2	WALL		INTERNATIONAL SYMBOL OF ACCESSIBILITY
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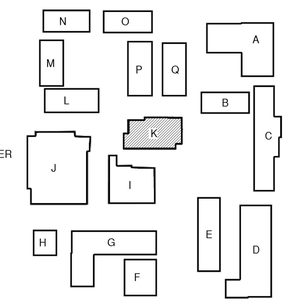

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DONALD J. KOPEAS — C20495 — EXP. 5/31 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY IMPROVEMENT PLAN

SHEET NUMBER:

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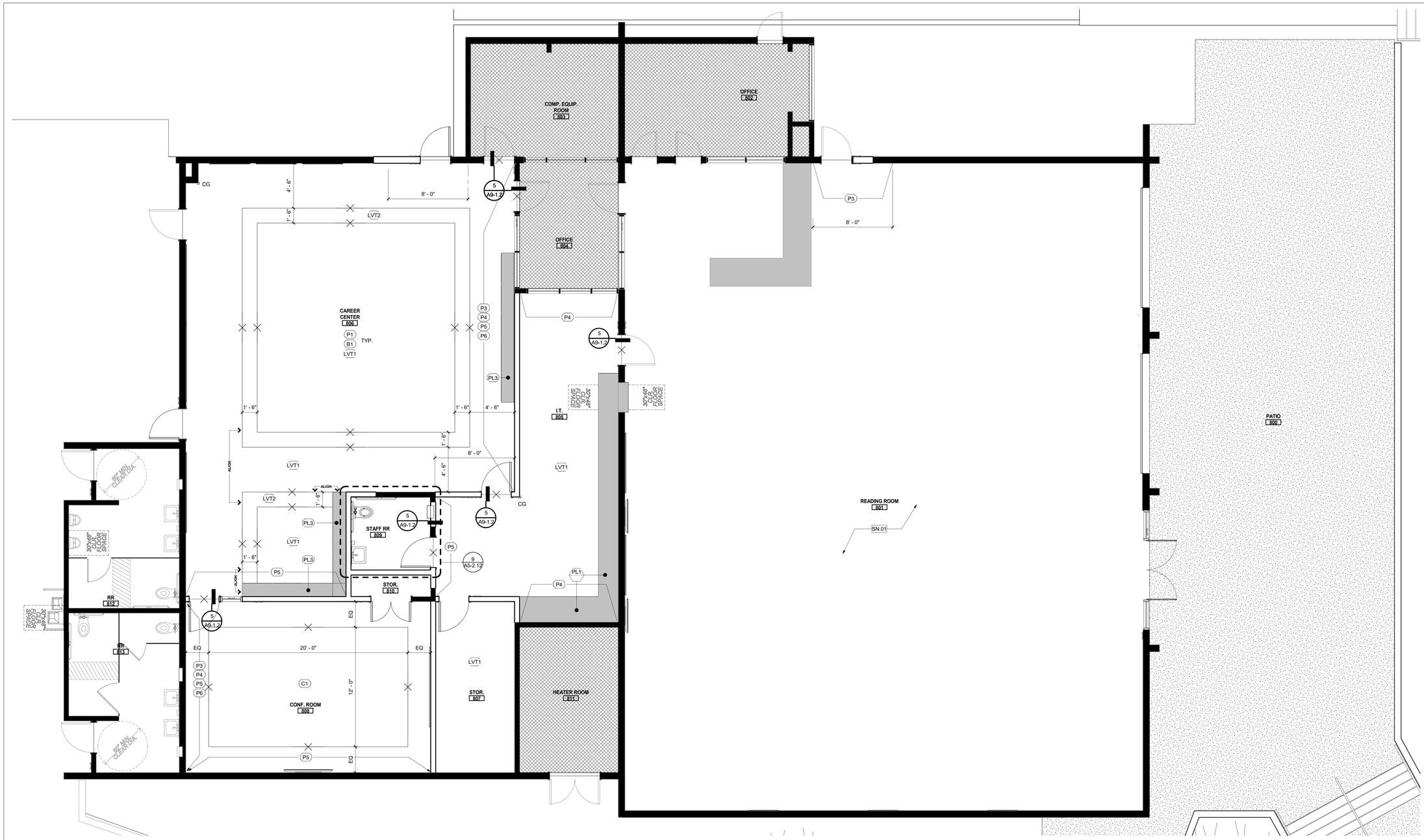

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	EXISTING FLOOR FINISHES TO REMAIN IN READING ROOM.

FINISH SCHEDULE

TAG	ITEM	MANUFACTURER	SPEC	SIZE	COLOR	INSTALLATION	NOTES	CONTACT
B1	RUBBER BASE	TARKETT	TIGHTLOCK TYPE TS, 75' COIL	4 1/2"	TBD	-	-	TBD
B2	RUBBER BASE	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	-	-	-
B3	COVED SHAPED PROFILE	SCHLUTER	DILEX-HKU	-	BRUSHED STAINLESS STEEL	-	-	TBD
C1	CARPET	MANNINGTON	CROSSTALK	24"X24"	VIDEO DECODER	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT1	RESILIENT FLOORING	MANNINGTON	SPACIA - WOOD	7.25"X48"	HAMPTON OAK	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT2	RESILIENT FLOORING	MANNINGTON	COLOR ANCHOR - GROOVE	6"X36"	BUZZY YELLOW	TBD	-	ELISE OZAWA <Elise.Ozawa@mannington.com>
LVT3	RESILIENT FLOORING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	MATCH TO EXISTING	-	-	-
P1	FIELD PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	WHITE FLOUR SW7102	-	-	TBD
P2	FIELD PAINT	MATCH TO EXISTING	MATCH TO EXISTING	-	MATCH TO EXISTING	-	-	-
P3	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	STAY IN LIME SW9032	-	-	TBD
P4	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	JAY BLUE SW6797	-	-	TBD
P5	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	CHELSEA GRAY SW2850	-	-	TBD
P6	ACCENT PAINT	SHERWIN WILLIAMS	LATEX INTERIOR PAINT	-	WESTCHESTER GRAY SW2849	-	-	TBD
PL1	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD - WHITE?	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
PL2	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
PL3	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	4'X8'	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
S1	SOLID SURFACE	WILSONART	SOLID SURFACE	-	TBD	-	-	ELIZABETH MCMILLAN <mcmille@wilsonart.com>
T1	PORCELAIN FLOOR TILE	TBD	TBD	TBD	TBD	-	-	TBD
T2	CERAMIC WALL TILE	TBD	TBD	TBD	TBD	-	-	TBD
T3	CERAMIC WALL TILE	TBD	TBD	TBD	TBD - ACCENT COLOR	-	-	TBD

GENERAL NOTES

1. PRODUCTS SCHEDULED ARE TO ESTABLISH THE BASES OF DESIGN. SUBSTITUTION OF EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS IN THE PROJECT SPECIFICATIONS.
2. FIELD MEASURE FOR ALL GLAZING AND MILLWORK CONDITIONS PRIOR TO MANUFACTURING.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYPSUM BOARD
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/4" MAX. IN 10'-0" SPAN.
10. ALL CERAMIC, PORCELAIN, AND VCT TO BE INSTALLED WITH FULL TILE FROM TRANSITION AT DOOR AND FULL TILE FROM WALL PERPENDICULAR TO DOOR, U.N.O.
11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. DELETE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

LEGEND

- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK
- T1 / F1 — MILLWORK TAG: FINISH - TOP SURFACE; FINISH - FACE SURFACE
- FLOOR FINISH 1 / FLOOR FINISH 2 — FLOOR MATERIAL TRANSITION, SEE 5 / A9-1.2 WHERE OCCURS.
- CG — 2" SURFACE MOUNTED CORNER GUARD INPRO - 160BN BULLNOSE, COLOR: TBD 48" ABOVE BASE, SEE 10 / A9-1.2

FINISH SCHEDULE NOTES

1. PRIOR TO FABRICATION PROVIDE DRAW DOWN FOR ARCHITECTS REVIEW AND APPROVAL.
2. PROVIDE 2 COATS, EGGSHELL FINISH.
3. AT CEILINGS AND SOFFITS, PROVIDE 2 COATS, FLAT FINISH
4. GROUT JOINT TO BE 1/8". BASIS OF DESIGN: CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMACE GROUT, OR EQUAL.
5. STRAIGHT BASE AT CARPET, COVED BASE AT RESILIENT FLOORING.
6. INSTALL AT ALL EXPOSED SURFACES.
7. MITER ALL EXTERIOR CORNERS.

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555 CENTRAL AVE.
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DSA PLAN CHECK	01/26/2021
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REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
LIBRARY FINISH PLAN

SHEET NUMBER:
A2-2.12

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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LEGEND

(E) B.U.R. TO REMAIN.

GENERAL NOTES

1. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR EQUIPMENT SCOPE.
2. EXISTING ROOF STRUCTURE, SHEATHING, AND B.U.R. TO REMAIN.
3. EXISTING ROOF DRAINS ASSEMBLY AND EXISTING OVERFLOWS TO REMAIN.
4. EXISTING VENTS AND EXHAUST TO BE REMOVED/REMAIN PER MEP DRAWINGS.
5. EXISTING ELECTRICAL CONDUIT TO BE REMOVED/REMAIN PER ELECTRICAL DRAWINGS.
6. EXISTING ROOF MOUNTED DUCT WORK TO REMAIN PER MEP DRAWINGS (NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARITY).

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	NEW RTU'S TO REPLACE EXISTING ON NEW CURBS CURBS PER MECHANICAL DRAWINGS (3/M0-1.2). EXISTING ROOF MOUNTED DUCTWORK TO REMAIN PER MECHANICAL DRAWINGS
SN.02	NEW EXHAUST FAN ON NEW CURBS CURBS PER MECHANICAL DRAWINGS (4/M0-1.3)

KEY PLAN

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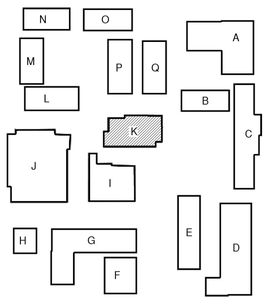
A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 5/30
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY ROOF PLAN

SHEET NUMBER:

A2-2.13

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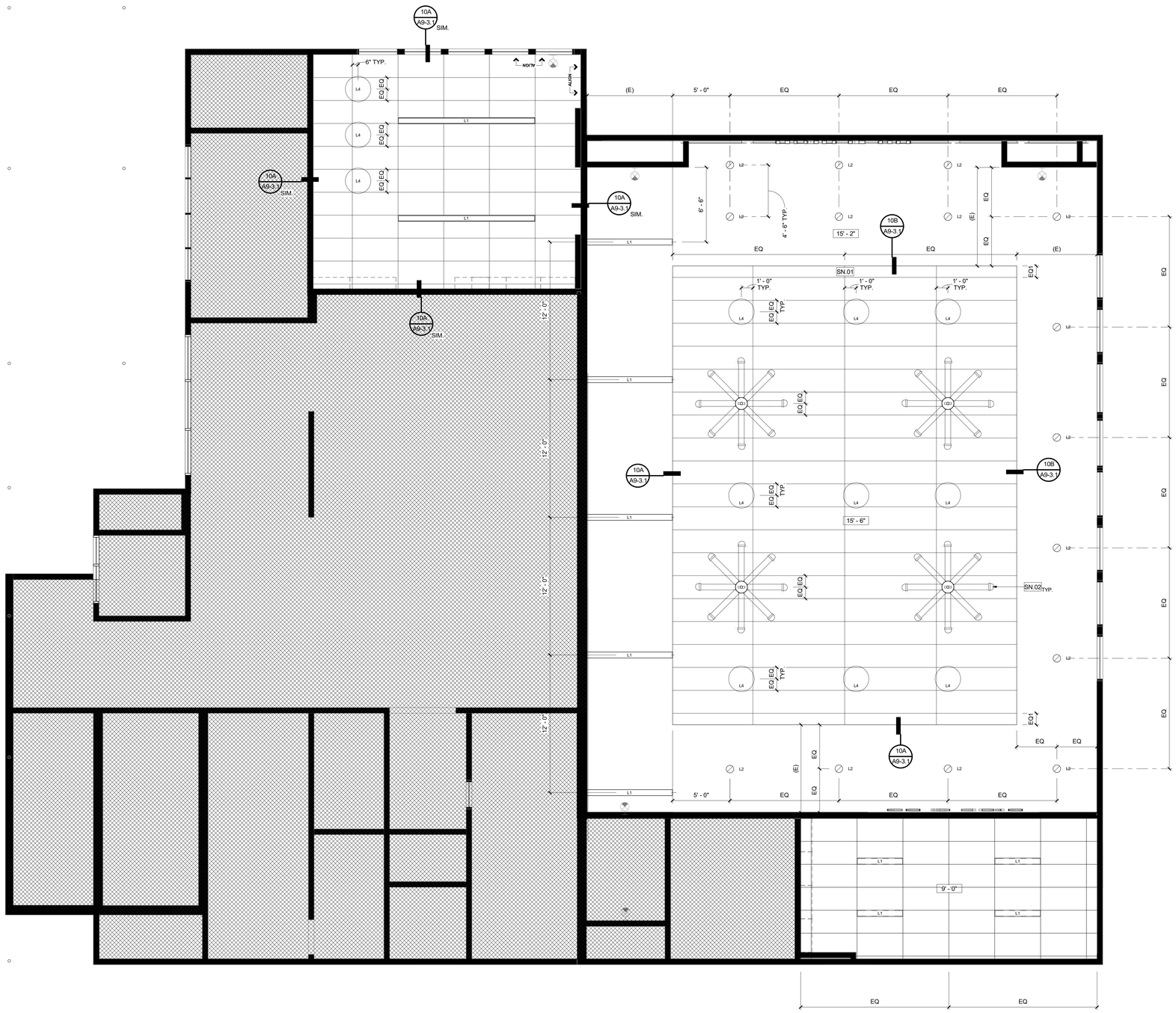
LIGHT FIXTURE SCHEDULE

MARK	SIZE	MANUFACTURER	MODEL	DESCRIPTION	LIGHT	TEMP.	NOTES
L1	6" X VARIES	LITECONTROL	6L-R-D	RECESSED LINEAR LIGHT	LED	3500K	REFER TO 4/A9-3.1 FOR ANCHORAGE DETAIL
L2	8" DIA.	-	-	RECESSED DOWNLIGHT	LED	3500K	
L3	6" DIA.	-	-	6" DIA. ROUND RECESSED DOWNLIGHT	LED	3500K	
L4	27" DIA.	TBD	TBD	PENDANT LIGHT	LED	3500K	REFER TO 11/A9-3.1 FOR ANCHORAGE DETAIL
L5	8' LONG	PRUDENTIAL LTG.	P40	SUSPENDED LINEAR LIGHT - PEWTER(MATTE)	LED	3500K	
L6	8' LONG	PRUDENTIAL LTG.	P40	SUSPENDED LINEAR LIGHT - DAFFODIL(MATTE)	LED	3500K	



LEGEND

- 9/16" x 2' x 4' USG DONN FINELINE DXF GRID WITH USG MARS HIGH-CAC PANELS OR APPROVED EQUAL.
- 9/16" x 2' x 8' USG DONN FINELINE DXF GRID WITH USG MARS HIGH-CAC PANELS OR APPROVED EQUAL.
- 5/8" GYPSUM BOARD CEILING OVER METAL STUD, LEVEL 5 FINISH
- DIRECTION OF CEILING SLOPE
- CEILING MOUNTED SPEAKER
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

GENERAL NOTES

1. CENTER CEILING TILE IN ROOM U.N.O.
2. AT TEGULAR TILES, ALL EDGES TO BE FACTORY FINISH. IF NOT ABLE TO HAVE FACTORY FINISH, CUT EDGES TO BE PAINTED TO MATCH TILE.
3. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE FINISHED LEVEL 5.
4. NOTIFY WESTGROUP DESIGNS OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL OR MECHANICAL DRAWINGS AND OBTAIN CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
5. LOCATE RECESSED DOWNLIGHTS, WALL WASHERS AND SPOT LIGHTS IN THE CENTER OF 2'X2' CEILING TILES, U.N.O.
6. ALL CONDUIT AND HVAC DUCTS SHALL BE INDEPENDENTLY SUSPENDED FROM SAME SUSPENSION AS CEILING SYSTEM.
7. ALL EQUIPMENT IN PLENUM TO BE LOCATED AWAY FROM GYPSUM BOARD CEILINGS. NO ACCESS HATCHES IN GYPSUM BOARD CEILING WITHOUT PRIOR APPROVAL FROM ARCHITECT.
8. LIGHT SENSOR LOCATIONS AS DETERMINED BY THE ELECTRICAL ENGINEER SHALL BE FIELD APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
9. VERIFY ALL CLEARANCES IN PLENUM AREA AND ADVISE ARCHITECT OF MECHANICAL EQUIPMENT THAT REQUIRES RELOCATION.
10. ALL FIRE ALARM SYSTEM, SMOKE DETECTION, AND LIFE SAFETY EQUIPMENT SHALL MATCH BUILDING STANDARD.
11. PROVIDE FLUSH SPRINKLER HEAD COVERS AT ALL GYPSUM BOARD AND DECORATIVE SPECIALTY CEILINGS. GC TO CONFIRM COLOR AND FINISH WITH ARCHITECT PRIOR TO PROCUREMENT.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	PROVIDE POWER/DATA FOR FUTURE OH PROJECTOR
SN.02	8' DIAMETER ESSENCE CEILING FAN BY BIG ASS FAN, REFER TO 4/A9-3.2 FOR ANCHORAGE DETAILS.

KEY PLAN

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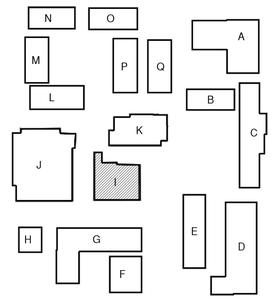

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID W. JORDAN SMITH C20495 EXP. 01/31/2023 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

CAFETERIA RCP

SHEET NUMBER:

A3-1.11

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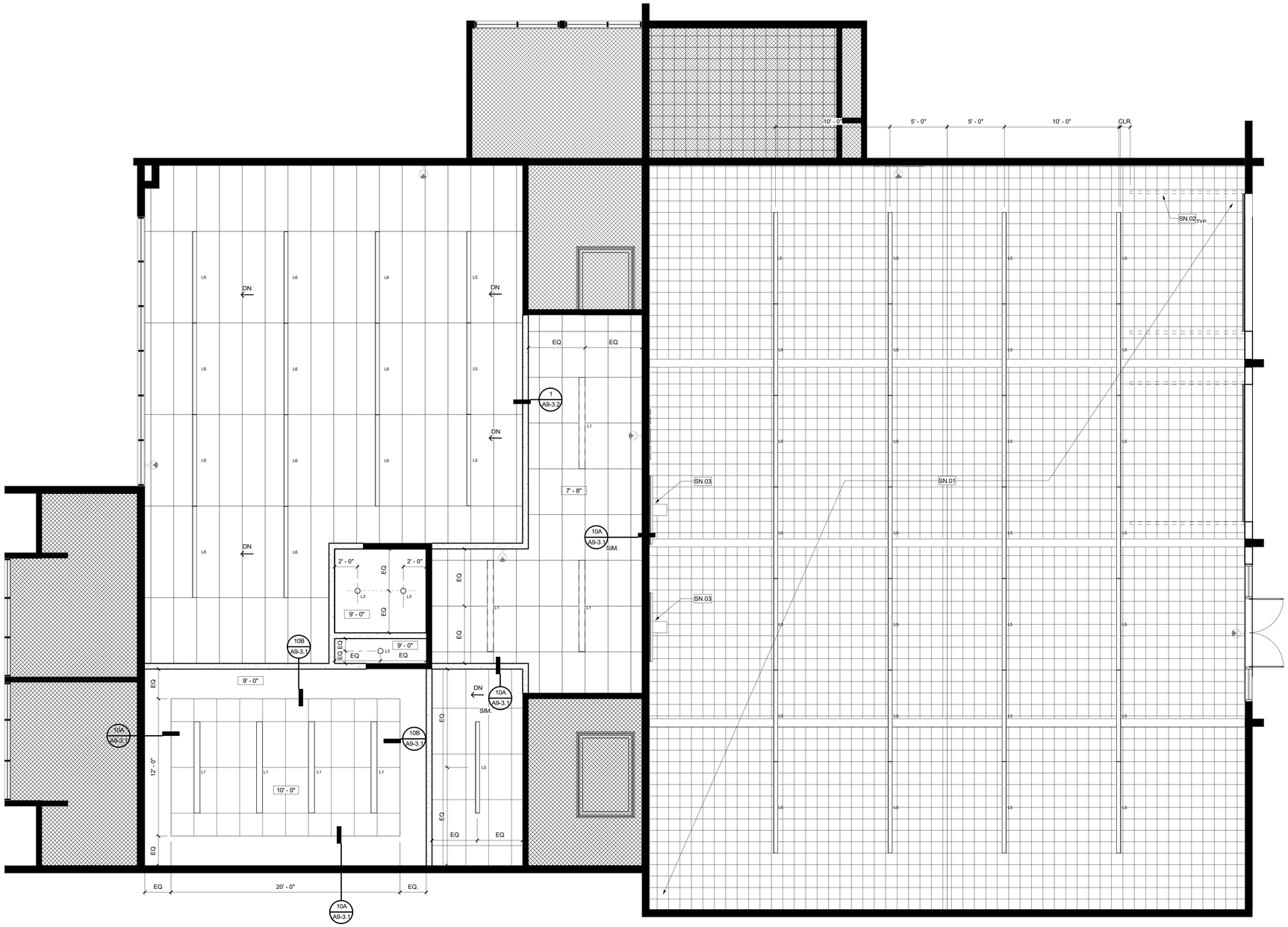


SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	(E) CEILINGS IN READING ROOM TO REMAIN
SN.02	TRACK FOR ROLL-UP GARAGE DOOR
SN.03	WALL MOUNTED PROJECTOR AND PROJECTION SCREEN. PROVIDE BACKING PER 11/A9-1.2.

LIGHT FIXTURE SCHEDULE

MARK	SIZE	MANUFACTURER	MODEL	DESCRIPTION	LIGHT	TEMP.	NOTES
L1	6" X VARIES	LITECONTROL	6L-R-D	RECESSED LINEAR LIGHT	LED	3500K	REFER TO 4/A9-3.1 FOR ANCHORAGE DETAIL
L2	8" DIA.	-	-	RECESSED DOWNLIGHT	LED	3500K	
L3	6" DIA.	-	-	6" DIA. ROUND RECESSED DOWNLIGHT	LED	3500K	
L4	27" DIA.	TBD	TBD	PENDANT LIGHT	LED	3500K	REFER TO 11/A9-3.1 FOR ANCHORAGE DETAIL
L5	8' LONG	PRUDENTIAL LTG.	P40	SUSPENDED LINEAR LIGHT - PEWTER(MATTE)	LED	3500K	
L6	8' LONG	PRUDENTIAL LTG.	P40	SUSPENDED LINEAR LIGHT - DAFFODIL(MATTE)	LED	3500K	

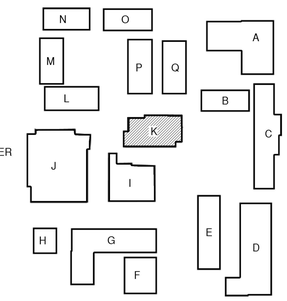
GENERAL NOTES

1. CENTER CEILING TILE IN ROOM U.N.O.
2. AT TEGULAR TILES, ALL EDGES TO BE FACTORY FINISH. IF NOT ABLE TO HAVE FACTORY FINISH, CUT EDGES TO BE PAINTED TO MATCH TILE.
3. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE FINISHED LEVEL 5.
4. NOTIFY WESTGROUP DESIGNS OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL OR MECHANICAL DRAWINGS AND OBTAIN CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
5. LOCATE RECESSED DOWNLIGHTS, WALL WASHERS AND SPOT LIGHTS IN THE CENTER OF 2'X4' CEILING TILES, U.N.O.
6. ALL CONDUIT AND HVAC DUCTS SHALL BE INDEPENDENTLY SUSPENDED FROM SAME SUSPENSION AS CEILING SYSTEM.
7. ALL EQUIPMENT IN PLENUM TO BE LOCATED AWAY FROM GYPSUM BOARD CEILINGS. NO ACCESS HATCHES IN GYPSUM BOARD CEILING WITHOUT PRIOR APPROVAL FROM ARCHITECT.
8. LIGHT SENSOR LOCATIONS AS DETERMINED BY THE ELECTRICAL ENGINEER SHALL BE FIELD APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
9. VERIFY ALL CLEARANCES IN PLENUM AREA AND ADVISE ARCHITECT OF MECHANICAL EQUIPMENT THAT REQUIRES RELOCATION.
10. ALL FIRE ALARM SYSTEM, SMOKE DETECTION, AND LIFE SAFETY EQUIPMENT SHALL MATCH BUILDING STANDARD.
11. PROVIDE FLUSH SPRINKLER HEAD COVERS AT ALL GYPSUM BOARD AND DECORATIVE SPECIALTY CEILINGS. GC TO CONFIRM COLOR AND FINISH WITH ARCHITECT PRIOR TO PROCUREMENT.

LEGEND

- 9/16" x 2' x 4' USG DONN FINELINE DXF GRID WITH USG MARS HIGH-CAC PANELS OR APPROVED EQUAL.
- 9/16" x 2' x 8' USG DONN FINELINE DXF GRID WITH USG MARS HIGH-CAC PANELS OR APPROVED EQUAL.
- 5/8" GYPSUM BOARD CEILING OVER METAL STUD, LEVEL 5 FINISH
- DIRECTION OF CEILING SLOPE
- CEILING MOUNTED SPEAKER
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

KEY PLAN



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SHEET TITLE:

LIBRARY RCP

SHEET NUMBER:

A3-2.11

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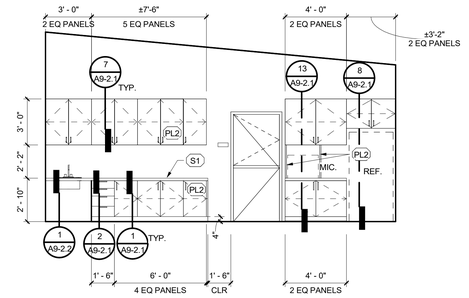
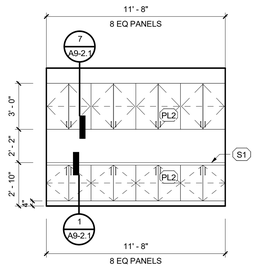
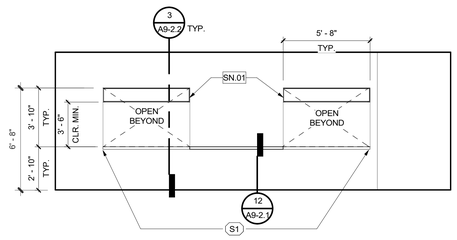


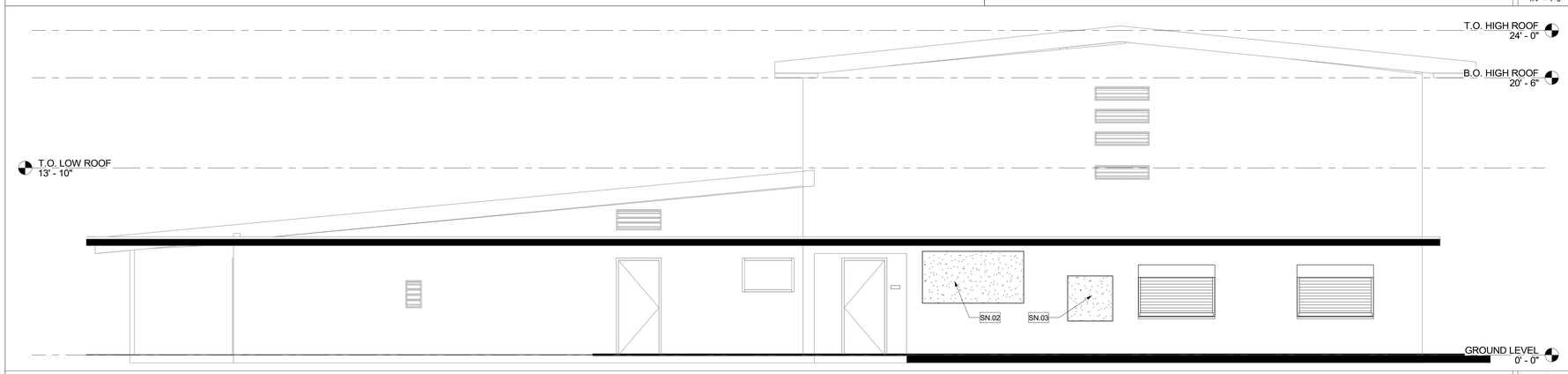
STAFF DINING | 5 | 1/4" = 1'-0"



CONCESSION B | 3 | 1/4" = 1'-0"



CONCESSION A | 2 | 1/4" = 1'-0"



CAFETERIA SOUTH ELEVATION | 1 | 1/4" = 1'-0"

LEGEND

- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK
- MILLWORK TAG
- T1 — FINISH - TOP SURFACE
- F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 5 / A9-1.2 WHERE OCCURS.
- GLAZING
- T — TEMPERED GLAZING

GENERAL NOTES

1. SEE SHEET G-1.1 FOR TYPICAL MOUNTING HEIGHTS.
2. PROVIDE BACKING AT ALL MILLWORK PER DETAIL 13/SD1.
3. REMOVE AND REPLACE EXISTING WALL SHEATHING AS REQUIRED FOR BACKING/BLOCKING INSTALLATION FOR MILLWORK.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	OVER COUNTER ROLL-UP DOOR
SN.02	REMOVE EXISTING WINDOW INFILL, PROVIDE NEW STUDS, PLYWOOD, INSULATION, ANDEXTERIOR CEMENT PLASTER AS REQUIRED TO MATCH ADJACENT SURFACE.
SN.03	REMOVE EXISTING FIRE CABINET INFILL, PROVIDE NEW STUDS, PLYWOOD, INSULATION, ANDEXTERIOR CEMENT PLASTER AS REQUIRED TO MATCH ADJACENT SURFACE.

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SHEET TITLE:
CAFETERIA ELEVATIONS

SHEET NUMBER:
A5-1.11

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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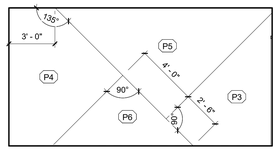
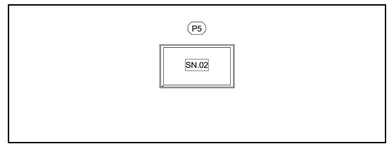


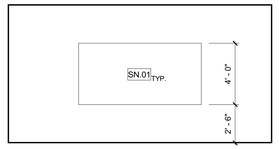
9C

1/4" = 1'-0"



9B

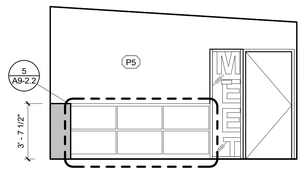
1/4" = 1'-0"



9A

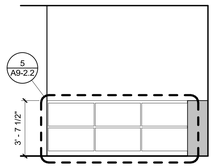
1/4" = 1'-0"

CONFERENCE ROOM | 9 | 1/4" = 1'-0"



2F

1/4" = 1'-0"



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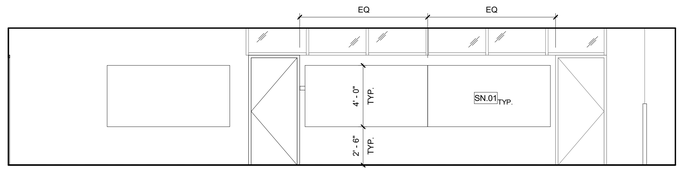
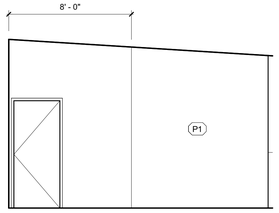
1/4" = 1'-0"



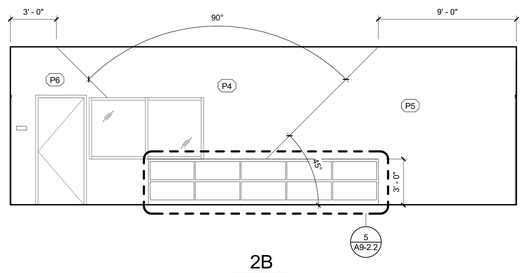
2D

1/4" = 1'-0"



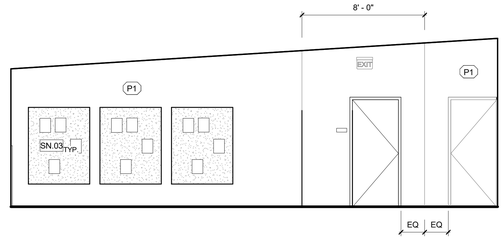
2C

1/4" = 1'-0"



2B

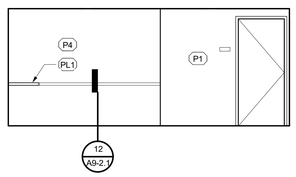
1/4" = 1'-0"



2A

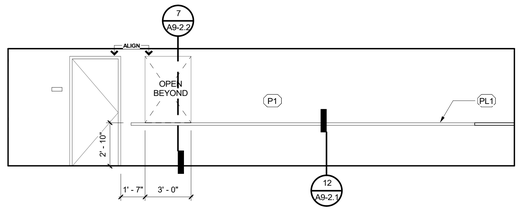
1/4" = 1'-0"

CAREER CENTER | 2 | 1/4" = 1'-0"



1B

1/4" = 1'-0"



1A

1/4" = 1'-0"

IT ROOM | 1 | 1/4" = 1'-0"

LEGEND

- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK
- MILLWORK TAG
- T1 — FINISH - TOP SURFACE
- F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 5 / A9-1.2 WHERE OCCURS.
- GLAZING
- T — TEMPERED GLAZING

GENERAL NOTES

1. SEE SHEET G-1.1 FOR TYPICAL MOUNTING HEIGHTS.
2. PROVIDE BACKING AT ALL MILLWORK PER DETAIL 13/SD1.
3. REMOVE AND REPLACE EXISTING WALL SHEATHING AS REQUIRED FOR BACKING/BLOCKING INSTALLATION FOR MILLWORK.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	4'X8' WHITE BOARD - PORCELAIN FINISH WHITE BOARD WITH ALUMINM TRIM & MARKER RAIL. PROVIDE BACKING AS NEEDED.
SN.02	OWNER-FURNISHED, CONTRACTOR INSTALLED TV. PROVIDE BACKING PER 13/SD1, PROVIDE REQUIRED ELECTRICAL AND DATA CONNECTIONS
SN.03	4'X5' TACK BOARD. PROVIDE BACKING AS NEEDED.

RESTROOM ACCESSORY SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION
1	BOBRICK	B-2013	AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER
2	BOBRICK	B-3944	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER/ WASTE RECEPTACLE
3	BOBRICK	B-35745	RECESSED SEAT-COVER DISPENSER, NAPKIN DISPOSAL, AND TISSUE DISPENSER
4	BOBRICK	B-5806X36	36" GRAB BAR
5	BOBRICK	B-5806X48	48" GRAB BAR
6	BOBRICK	B-290	24" X 36" GLASS MIRROR WITH SS ANGLE FRAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

LIBRARY ENLARGED PLAN AND ELEVATIONS

SHEET NUMBER:

A5-2.11

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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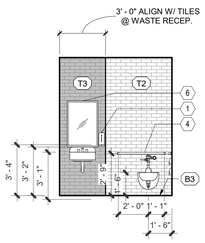
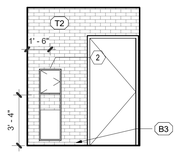
RESTROOM ACCESSORY SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION
1	BOBRICK	B-2013	AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER
2	BOBRICK	B-3944	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER/ WASTE RECEPTACLE
3	BOBRICK	B-35745	RECESSED SEAT-COVER DISPENSER, NAPKIN DISPOSAL, AND TISSUE DISPENSER
4	BOBRICK	B-5806X36	36" GRAB BAR
5	BOBRICK	B-5806X48	48" GRAB BAR
6	BOBRICK	B-290	24" X 36" GLASS MIRROR WITH SS ANGLE FRAME



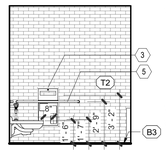
9C

1/4" = 1'-0"



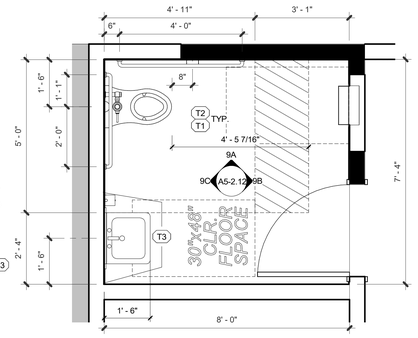
9B

1/4" = 1'-0"

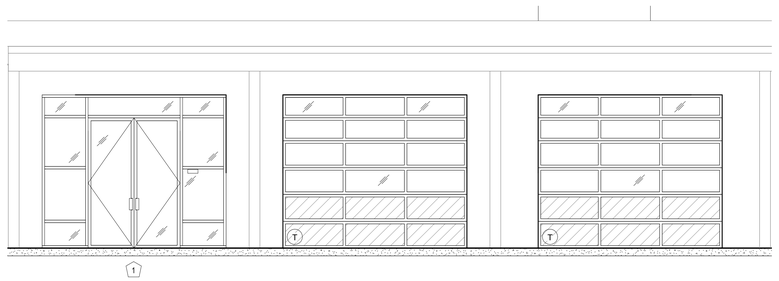


9A

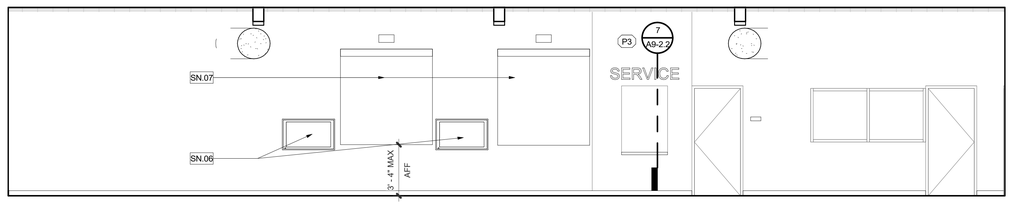
1/4" = 1'-0"



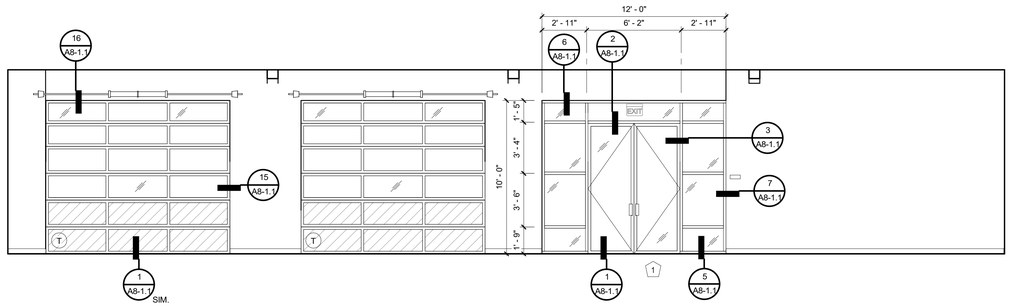
STAFF RESTROOM | 9 | 1/2" = 1'-0"



LIBRARY EXTERIOR ELEVATION | 3 | 1/4" = 1'-0"

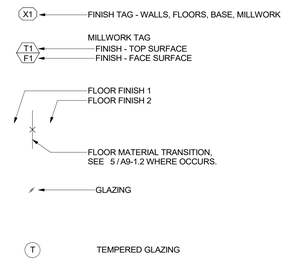


READING ROOM - PASS-THROUGH COUNTER | 2 | 1/4" = 1'-0"



LIBRARY INTERIOR ELEVATION | 1 | 1/4" = 1'-0"

LEGEND



SN#	DESCRIPTION
SN.06	OWNER-FURNISHED, CONTRACTOR INSTALLED TV. PROVIDE BACKING PE 13/SD1, PROVIDE REQUIRED ELECTRICAL AND DATA CONNECTIONS. T.V. AND MOUNT SHALL NOT PROJECT MORE THAN 4 INCHES FROM THE WALL.
SN.07	PROJECTION SCREEN MOUNTED ON WALL. PROVIDED BACKING PER 13/SD1. SCREEN SHALL NOT PROJECT MORE THAN 4 INCHES FROM THE WALL.

GENERAL NOTES

1. SEE SHEET G-1.1 FOR TYPICAL MOUNTING HEIGHTS.
2. PROVIDE BACKING AT ALL MILLWORK PER DETAIL 13/SD1.
3. REMOVE AND REPLACE EXISTING WALL SHEATHING AS REQUIRED FOR BACKING/BLOCKING INSTALLATION FOR MILLWORK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
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949.250.0880 | FAX 949.250.0882
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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:

LIBRARY ELEVATIONS

SHEET NUMBER:

A5-2.12

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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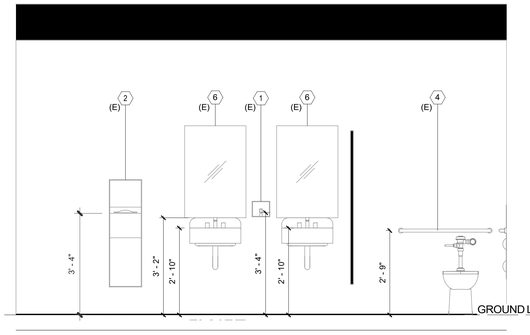
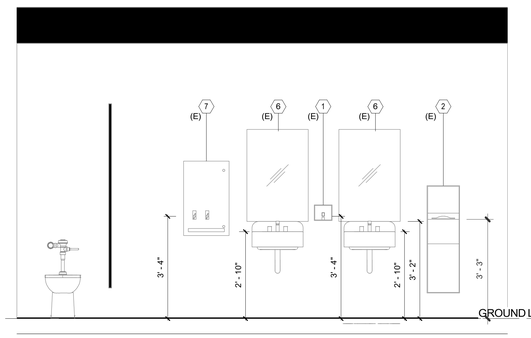
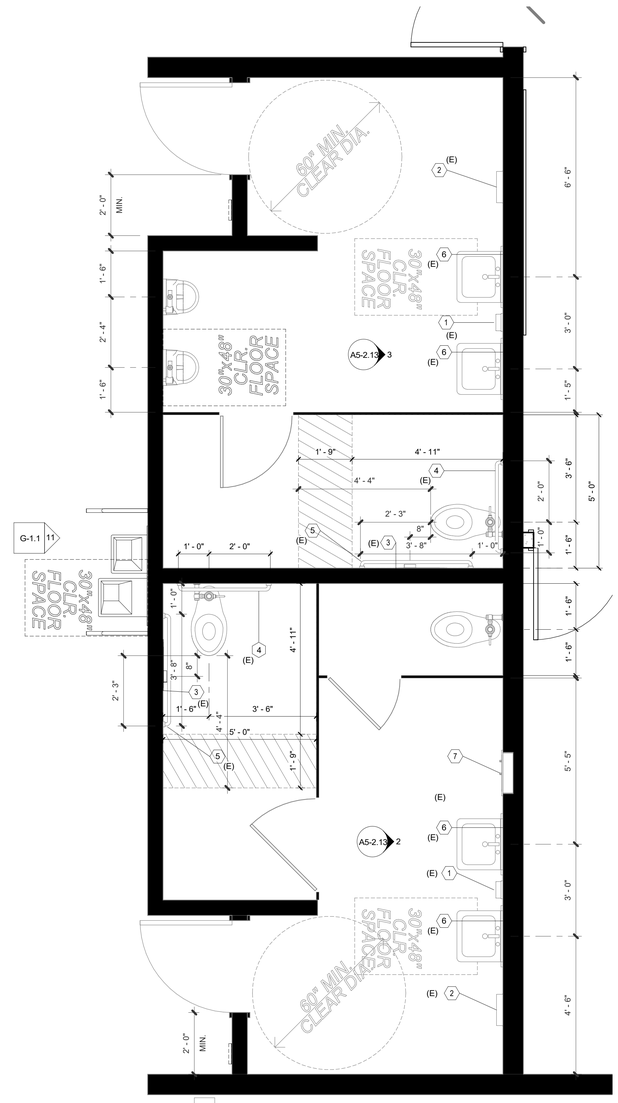


EXISTING MEN RESTROOM | 3 | 1/2" = 1'-0"



EXISTING WOMEN RESTROOM | 2 | 1/2" = 1'-0"



ENLARGED BATHROOM PLAN | 1 | 1/2" = 1'-0"

LEGEND

GENERAL NOTES

1. SEE SHEET G-1.1 FOR TYPICAL MOUNTING HEIGHTS.
2. PROVIDE BACKING AT ALL MILLWORK PER DETAIL 13/SD1.
3. EXISTING RESTROOM TO REMAIN.

RESTROOM ACCESSORY SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION
1	BOBRICK	B-2013	AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER
2	BOBRICK	B-3944	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER/ WASTE RECEPTACLE
3	BOBRICK	B-35745	RECESSED SEAT-COVER DISPENSER, NAPKIN DISPOSAL, AND TISSUE DISPENSER
4	BOBRICK	B-5806X36	36" GRAB BAR
5	BOBRICK	B-5806X48	48" GRAB BAR
6	BOBRICK	B-290	24" X 36" GLASS MIRROR WITH SS ANGLE FRAME

THE FOLLING ITEMS HAVE BEEN FIELD REVIEWED AND VERIFIED BY THE ARCHITECT AS MEETING CURRENT CALIFORNIA BUILDING CODE

1. DOOR AND WALL ROOM IDENTIFICATIONS SIGANGE PER 11B-703.2-703.7
2. DOOR CLOSER OPERATING FORCE OF 5 LB MAXIMUM PER 11B-402.9
3. DOOR ACCESSIBLE HARDWATE AND MOUNTING HEIGHTS PER 11B-402.7
4. OPERATIONAL PARTS OF TOILET ACCESSORIES ARE WITHIN 40" MAXIMUM ABOVE FINISHED FLOOR PER 11B-60.3.5
5. TOILET PAPER DISPENSORS ARE CONTINIOUS FLOW TYPE WITHOUT DELIVERY CONTROL, AND ARE LOCATED 7" MIN - 9" MAXIMUM IN FRONT OF THE WATER CLOSER TO THE CENTERLINE OF THE DISPENSER, OUTLET AT 19" MIN. ABOVE THE FINISHED FLOOR AND LOCATED 1 1/2" MIN CLEAR FROM THE UNDERSIDE OF THE GRAB BAR PER 11B-604.7
6. SANITARY NAPKIN DISPENSERS ARE LOCATED PER 11B-604.7.2
7. COAT HOOKS ARE MOUNTED WITHIN REACH REANCG AT 48" MAXIMUM PER 11B-308
8. TOILET COMPARTMENT DOORS HAVE U-SHAPED HANDLES, FLIP-OVER OR SLIDING LATCH
9. DRINKING FOUNTAIN IS NEW AND HAS ONE HI-LO TYPE THAT COMPLIES WITH 11B-602

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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www.westgroupdesigns.com

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID JORDAN WESTGROUP STATE OF CALIFORNIA
C20495
EXP. 01/31
Renewal Date

SHEET TITLE:
ENLARGED RESTROOM PLAN

SHEET NUMBER:
A5-2.13

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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DOOR SCHEDULE

ID	ROOM	TYPE	HW GROUP	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD	FRAME SILL	RATING (MIN.)	PANIC HW	NOTES
801A	READING ROOM	B.1	1	6' - 0"	8' - 6"	0' - 1 3/4"	AL/GL	-	HM	P(TBD)	3/A8-1.1	2/A8-1.1	1/A8-1.1	-	YES	
805	I.T.	A	2	3' - 0"	7' - 0"	0' - 1 3/4"	(E)WD	PL3	(E)HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
807	STOR.	A	4	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
807A	CAREER CENTER	A	5	3' - 0"	7' - 0"	0' - 1 3/4"	HM	P(TBD)	HM	P(TBD)	3/A6-1.1	3/A6-1.1	4/A6-1.1	-	YES	
807C	CAREER CENTER	A	5	3' - 0"	7' - 0"	0' - 1 3/4"	HM	P(TBD)	HM	P(TBD)	3/A6-1.1	3/A6-1.1	4/A6-1.1	-	YES	
808	CONF. ROOM	A	3	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
809	STAFF RR	A	6	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
810	STOR.	A.1	7	4' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
811S	RR	RR		2' - 4"	6' - 0"	0' - 1"										
811T	RR	RR		3' - 0"	6' - 0"	0' - 1"										
811Z	RR	RR		2' - 4"	6' - 0"	0' - 1"										
903	CONCESSION	A	3	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	
923	STAFF DINING	C	8	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PL3	HM	P(TBD)	2/A6-1.1	1/A6-1.1	5/A9-1.2	-	-	

HARDWARE GROUPS

HW SET: 1

Door(s):
801A

2	EA	PIVOT SET	7215 SET	626	IVE
4	EA	INTERMEDIATE PIVOT	7215 INT	626	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	PA-AX-35A-EO	626	VON
1	EA	PANIC HARDWARE	PA-AX-35A-L-NL-360-06	626	VON
2	EA	MORTISE CYLINDER	1E74 C4	626	BES
2	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
2	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
2	EA	SURFACE CLOSER	4111 EDA	689	LCN
2	EA	MOUNTING PLATE	4110-18	689	LCN
2	EA	FLOOR STOP	FS441/FS444 AS REQ'D	626	IVE
1	SET	SEALS	BY DOOR/FRAME MANUFACTURER		B/O
1	EA	THRESHOLD	AS DETAILED		

HW SET: 2

Door(s):
805

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY LOCK	9K3-7-IN-15-D-S3	626	BES
2	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
2	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS438/FS436	626	IVE
3	EA	SILENCER	SR64/SR65	GRY	IVE

VERIFY EXISTING CONDITIONS PRIOR TO ORDERING HARDWARE.

HW SET: 3

Door(s):
808 903

3	EA	HINGE	3CB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY LOCK	9K3-7-IN-15-D-S3	626	BES
2	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
2	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS438/FS436	626	IVE
3	EA	SILENCER	SR64/SR65	GRY	IVE

HW SET: 4

Door(s):
807

3	EA	HINGE	3CB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	9K3-7-R-15-D-S3	626	BES
1	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
1	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS438/FS436	626	IVE
3	EA	SILENCER	SR64/SR65	GRY	IVE

HW SET: 5

Door(s):
807A 807C

3	EA	HINGE	3CB1HW SH 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	PA-AX-98-L-NL-06	626	VON
1	EA	RIM CYLINDER	12E72-S2-RP	626	BES
1	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
1	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	SURFACE CLOSER	4111 EDA ST-1631	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS441/FS444 AS REQ'D	626	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	AS DETAILED		

HW SET: 6

Door(s):
809

3	EA	HINGE	3CB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	9K3-0-L-15-D-S3	626	BES
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS438/FS436	626	IVE
3	EA	SILENCER	SR64/SR65	GRY	IVE

HW SET: 7

Door(s):
810

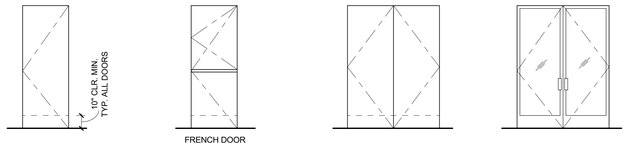
6	EA	HINGE	3CB1 4.5 X 4.5 NRP	652	IVE
1	SET	AUTO FLUSH BOLT	FB31P	630	IVE
1	EA	DUST PROOF STRIKE	DP	626	IVE
1	EA	CLASSROOM LOCK	9K3-7-R-15-D-S3	626	BES
1	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
1	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	OH STOP & HOLDER	410F	689	GLY
2	EA	SILENCER	SR64/SR65	GRY	IVE

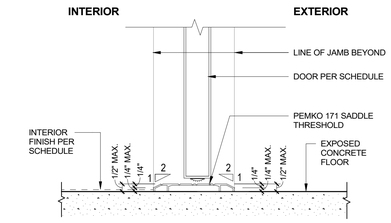
HW SET: 8

Door(s):
923

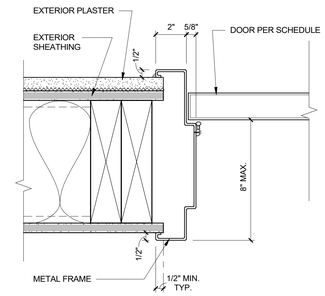
4	EA	HINGE	3CB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	DUTCH DOOR BOLT	054	626	IVE
1	EA	CLASSROOM SECURITY LOCK	9K3-7-IN-15-D-S3	626	BES
2	EA	SFIC CYL. CORE	PERMANENT CORE	626	BES
2	EA	CONSTRUCTION CORE	1C7-GREEN	626	BES
1	EA	OH STOP & HOLDER	100HP	689	GLY
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS438/FS436	626	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
4	EA	SILENCER	SR64/SR65	GRY	IVE

DOOR TYPES

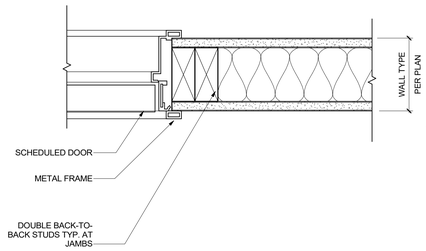




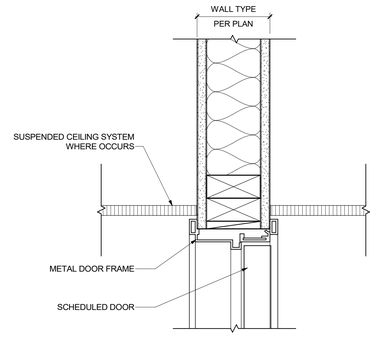
EXTERIOR DOOR SILL | 4 | 3" = 1'-0"



EXTERIOR DOOR JAMB/HEAD IN PLASTER | 3 | 3" = 1'-0"



DOOR JAMB - ALUM. FRAME | 2 | 3" = 1'-0"



DOOR HEAD/JAMB | 1 | 3" = 1'-0"

LEGEND

MATERIAL

WD	SOLID WOOD
AL/GL	ALUMINUM FRAMED GLASS
HM	HOLLOW METAL

FINISH

PT	PAINT*
PL	PLASTIC LAMINATE*
ANNO	ANNODIZED ALUMINUM*
FF	FACTORY FINISH*
GL.C.	CLEAR VISION GLASS
GL.R.	REFLECTIVE VISION GLASS*

*** CONFIRM COLOR SELECTION WITH ARCHITECT, PROVIDE FINISH SAMPLES FOR REVIEW.**

DOOR NOTES

1. THE HARDWARE SCHEDULE IS INTENDED TO COVER ALL DOORS IN THE PROJECT AND ESTABLISH A TYPE AND STANDARD OF QUALITY. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL SYSTEM OF DOOR FINISH HARDWARE ITEMS ENCOMPASSING ALL OPENINGS WITHIN THE PROJECT AREA AS REQUIRED TO MEET CODE AND FUNCTIONAL REQUIREMENTS. THE HARDWARE SPECIFICATION IS PROVIDED AS A BASIS FOR A COMPLETE HARDWARE SUBMITTAL WHICH INDICATES THE QUANTITY, TYPE, NUMBER, MANUFACTURER, AND LOCATION OF EACH ARTICLE OF HARDWARE REQUIRED. HARDWARE LIST SHALL BE SUBMITTED NO LATER THAN 30 DAYS BEFORE THE ORDER DATE NECESSARY TO MEET THE PROJECT SCHEDULE. REVIEW OF THE HARDWARE LIST DOES NOT REPRESENT CERTIFICATION THAT THE LIST IS COMPLETE AND DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE PROJECT.
2. EXISTING DOORS, CLOSET DOORS, RESTROOM DOORS, ETC. IN THE ONE-HOUR CORRIDOR ARE 20 MINUTE RATED DOORS. ALL HARDWARE IN RATED DOORS MUST MAINTAIN DOOR FIRE RATING AND GASKETING MUST BE PROVIDED.
3. COORDINATE HARDWARE QUANTITIES WITH DOUBLE DOORS WHERE OCCURS AND PROVIDE ADDITIONAL HARDWARE AS NEEDED.
4. DOOR HARDWARE MANUFACTURE AND FINISH TO MATCH BUILDING STANDARDS WHERE APPLICABLE.
5. ALL CORRIDOR DOOR ASSEMBLIES TO HAVE FINISH TO MATCH BUILDING STANDARD.
6. ALL LOCKSETS SHALL BE CODED AND/OR KEYED IN ACCORDANCE WITH OWNER'S REQUIREMENTS. CODES AND/OR KEYS ARE TO BE DELIVERED TO OWNER PROPERLY TESTED AND/OR TAGGED. THE NUMBER OF KEYS TO BE COORDINATED WITH OWNER.
7. HARDWARE SUPPLIER SHALL PROVIDE GRANDMASTER KEY, MASTER KEY, KEY-ALIKE AND/OR KEY-DIFFERENT ALL LOCKS IN ACCORDANCE WITH KEYING SCHEDULE AS PROVIDE BY OWNER.
8. ALL HARDWARE SHALL BE OF LEVER TYPE TO COMPLY WITH ACCESSIBILITY REQUIREMENTS. REPLACE ALL DOOR HARDWARE ITEMS NOT IN COMPLIANCE WITH APPLICABLE ACCESSIBILITY REQUIREMENTS TO THE SATISFACTION OF THE BUILDING AUTHORITY.
9. DOOR OPENINGS IN PARTITIONS NOT DIMENSIONED SHALL BE 4" FROM ADJOINING PARTITION.
10. VERIFY AND COORDINATE THE THICKNESS OF FLOOR FINISH WITH UNDERCUT DIMENSION AT DOOR.
11. EACH ARTICLE OF HARDWARE SHALL BE INDIVIDUALLY PACKAGED IN ITS ORIGINAL MANUFACTURER'S CONTAINER AND PROPERLY LABELED IN CONFORMANCE WITH THE APPROVED HARDWARE LIST.
12. FURNISH (3) BUTT HINGES FOR DOORS UP TO 7'-0" HIGH AND (1) HINGE FOR EACH ADDITIONAL 2'-6".
13. PROVIDE STANDARD STRIKE PLATE WITH EXTENDED LIP WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED OR DAMAGED BY THE LATCH BOLT.
14. PROVIDE DUST COVERS AT ALL STRIKE PLATES.
15. DOORS SHALL BE INSTALLED IN FRAME WITH 1/8" MAX. TOLERANCE AT HEAD HINGES, AND STRIKE/JAMB.
16. ALL EXTERIOR AND RESTROOM DOORS ARE TO BE SELF-CLOSING. PROVIDE GASKETING AND DOOR SWEEP AT ALL EXTERIOR DOORS.
17. ALL DOOR LOCKSETS/LATCHSETS TO BE MORTISE STYLE WITH MODERN LEVER, U.N.O. ALL LEVER ACCESS FROM THE INTERIOR SHALL ALWAYS BE FREE TO PROVIDE IMMEDIATE EGRESS AND SHALL UNLATCH WITH ONE OPERATION.
18. ALL NEW HARDWARE ON DOORS TO HAVE SIMILAR FINISHES U.N.O., ALL FASTENERS SHALL MATCH THE HARDWARE MATERIAL AND FINISH.
19. DOOR WOOD VENEER QUALITY, SHEEN, AND STAIN FINISH ARE TO BE CONFIRMED BY THE ARCHITECT.

DOOR CODE COMPLIANCE NOTES

1. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF-CLOSING.
2. FIRE DOOR ASSEMBLIES SHALL BE LABELED IN ACCORDANCE WITH THE CBC.
3. FIRE DOORS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE.
4. ALL FIRE RATED ASSEMBLIES ARE TO BE PROVIDED WITH AN APPROVED SMOKE GASKET. INSTALL TO PROVIDE A CONTINUOUS SEAL WHERE THE DOOR MEETS THE STOP ON THE HEAD AND BOTH JAMBS.
5. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
6. FIRE RATED DOOR FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITIES.
7. INSTALL FLOOR STOPS IN LOCATION NOT TO CAUSE TRIPPING HAZARD IN PATH OF TRAVEL, 4" MAX FROM WALL.
8. DOOR AND GATE OPENING FORCE: THE FORCE REQUIRED FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE A MAXIMUM 5 LBS. FOR HINGED DOORS, SLIDING AND FOLDING DOORS.
9. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPEARABLE PARTS SHALL BE 5 LBS. MAXIMUM.
10. THE BOTTOM 10" OF ALL DOORS TO HAVE SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
11. DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
12. FLOOR OR GROUND SURFACE WITHIN THE REQUIRED MANEUVERING CLEARANCES PER DETAIL **7/G-1.1**, SHALL NOT HAVE A VERTICAL CHANGE IN LEVEL GREATER THAN 1/4" HIGH WITHOUT EDGE TREATMENT.

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DATE: 04/20/2022

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555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DONALD JOSEPH SMITH C20495 EXP. 6/30 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

DOOR SCHEDULE AND DETAILS

SHEET NUMBER:

A6-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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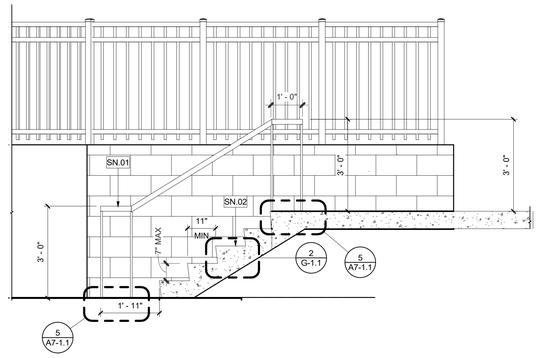
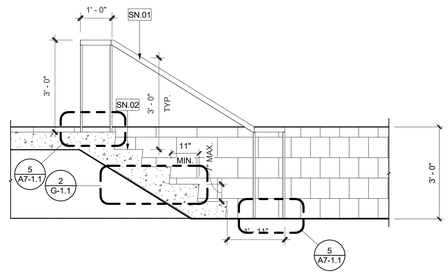
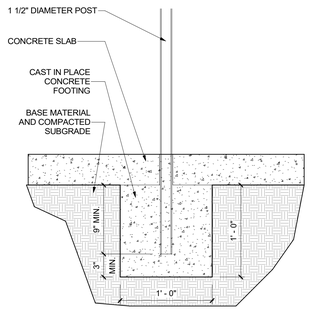


LIBRARY COURTYARD STAIR SECT. | 4 | 1/2" = 1'-0"



LIBRARY COURTYARD STAIR SECT. | 3 | 1/2" = 1'-0"



RAIL POST AT GRADE | 5 | 1 1/2" = 1'-0"

GENERAL NOTES

1. SEE SHEET G0-1.1 - G0-1.3 FOR ALL ACCESSIBILITY & SIGNAGE REQUIREMENTS AND NOTES.
2. ACCESSIBLE PARKING SIGNAGE PART OF BASE BUILDING PERMIT. (NOT IN SCOPE) ALL EXISTING SIGNAGE MUST CONFORM TO ACCESSIBILITY SIGNAGE NOTES.
3. NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
4. ALL WELDS TO BE GRINDED DOWN SMOOTH AND CLEANED.
5. REFER TO DETAIL 2/G-1.1 FOR STAIR REQUIREMENTS IN ADDITION TO CIVIL AND STRUCTURAL DRAWINGS.

SHEET KEYNOTES

SN#	DESCRIPTION
SN.01	NEW HANDRAILS. SEE 2/G-1.1 & 11/C-1.
SN.02	NEW HANDRAILS. SEE 11/SD1.

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID JORDAN SMITH C20495 EXP. 5/31/23 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

STAIR PLANS, SECTIONS, AND DETAILS

SHEET NUMBER:

A7-1.1

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20624	Author	Checker	08/26/2021

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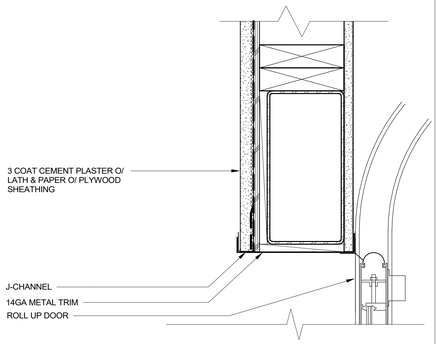
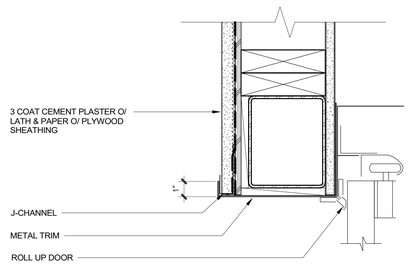
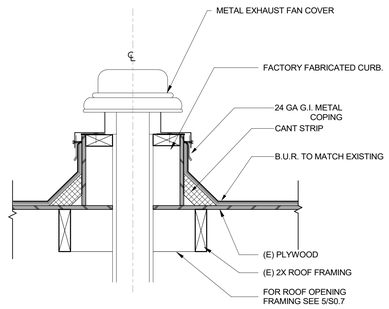


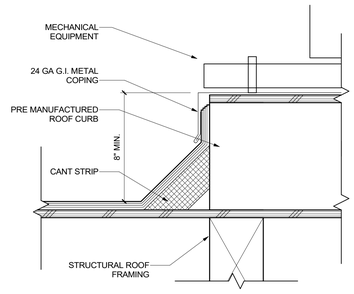
ROLL UP DOOR HEAD @ MTL STUD | 16 | 3" = 1'-0"



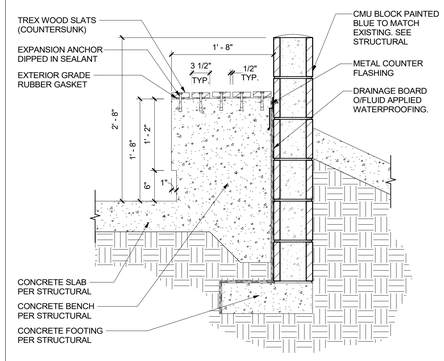
ROLL UP DOOR JAMB @MTL STUD | 15 | 3" = 1'-0"



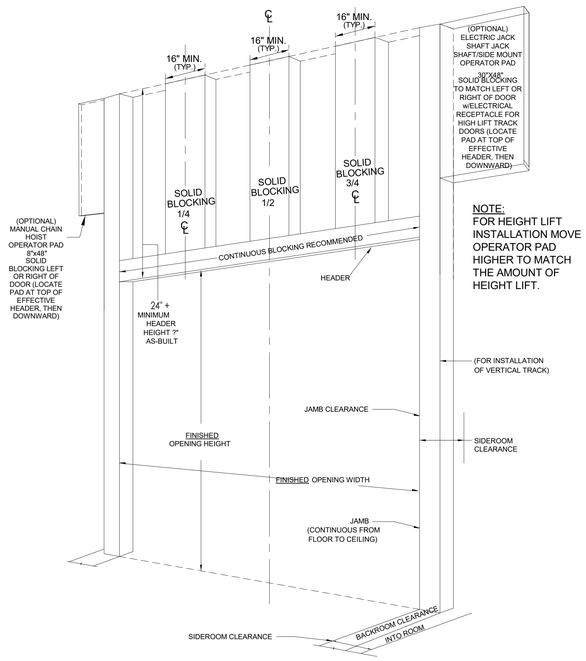
ROOF EXHAUST FAN DETAIL | 12 | 1 1/2" = 1'-0"



ROOF EQUIPMENT PAD DETAIL | 8 | 3" = 1'-0"

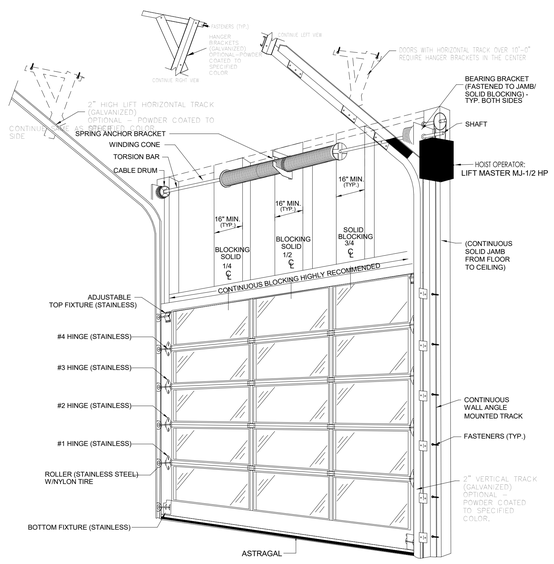


MONOLITHIC CONC. BENCH DETAIL | 4 | 1" = 1'-0"

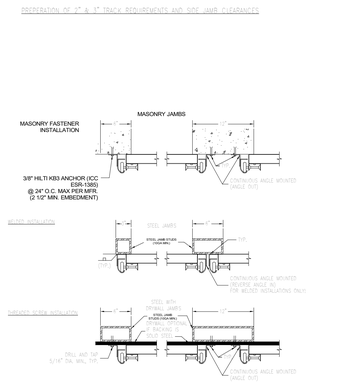


NOTE:
FOR HEIGHT LIFT INSTALLATION MOVE OPERATOR PAD HIGHER TO MATCH THE AMOUNT OF HEIGHT LIFT.

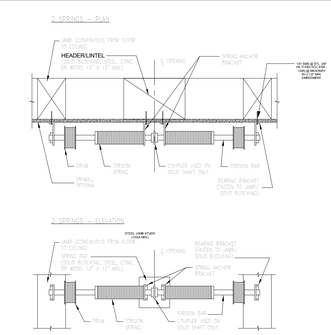
OVERHEAD COILING DOOR - CLEARANCES | 14 | 1/2" = 1'-0"



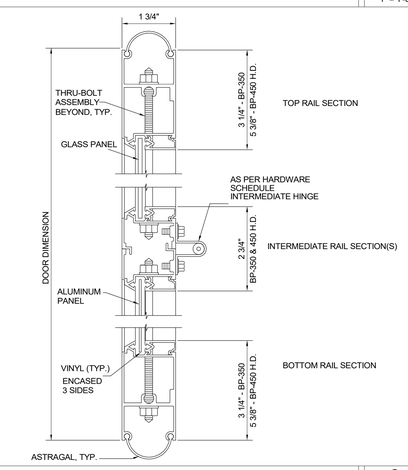
OVERHEAD COILING DOOR - AXON | 13 | 12" = 1'-0"



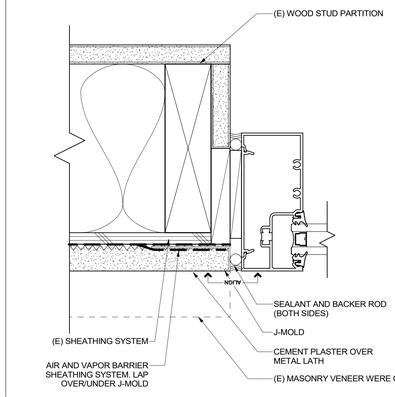
OVERHEAD COILING DOOR - TRACK | 11 | 1" = 1'-0"



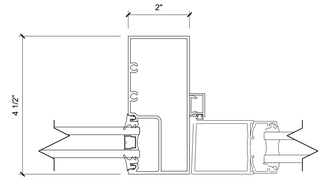
OVERHEAD COILING DOOR - SPRING PLAN | 10 | 1" = 1'-0"



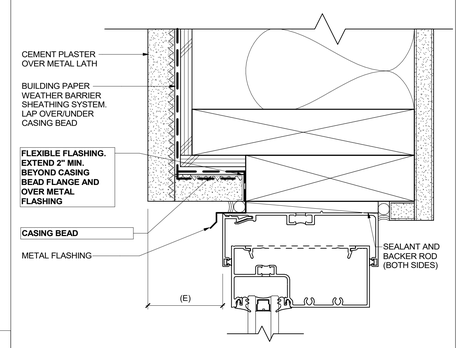
OVERHEAD COILING DOOR - PLAN | 9 | 6" = 1'-0"



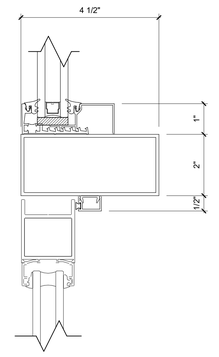
STOREFRONT JAMB AT PLASTER | 7 | 6" = 1'-0"



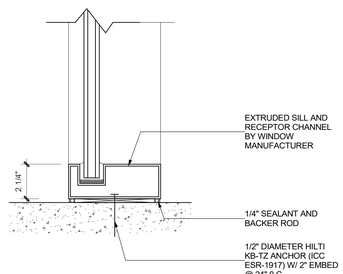
DOOR JAMB - STOREFRONT | 3 | 6" = 1'-0"



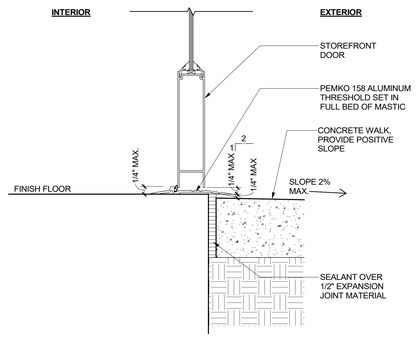
STOREFRONT HEAD AT PLASTER | 6 | 6" = 1'-0"



STOREFRONT DOOR HEAD | 2 | 6" = 1'-0"



STOREFRONT SILL | 5 | 3" = 1'-0"



DOOR SILL - STOREFRONT | 1 | 3" = 1'-0"

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:
LICENSED ARCHITECT DAVID OPDAL SMITH STATE OF CALIFORNIA C20495 EXP. 5/31 Renewal Date

SHEET TITLE:
EXTERIOR DETAILS

SHEET NUMBER:
A8-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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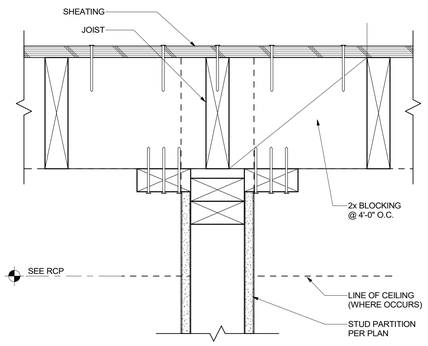
PARTITION GENERAL NOTES

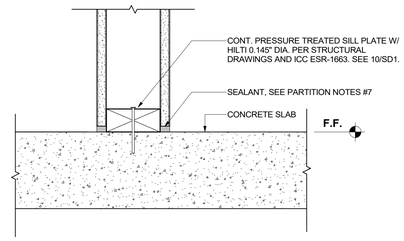
1. PROVIDE STUD SIZES AS SHOWN ON THE FLOOR PLAN WALL TAGS.
2. ALL GYPSUM BOARD SHALL BE 5/8 INCH TYPE-X UNLESS OTHERWISE NOTED.
3. SEE FINISH PLANS AND INTERIOR ELEVATIONS FOR WALL FINISH INFORMATION.
4. CEMENT BACKER BOARD SHALL BE USED AT WALL TILE FINISH LOCATIONS.
5. MOLD AND WATER-RESISTANT GYPSUM BOARD SHALL BE USED AT:
   - RESTROOMS
   - HEALTH OFFICES
   - DRINKING FOUNTAIN AND SHARED SINK ALCOVES
   - NUTRITION ROOM
   - WORK ROOM - WET WALLS
   - JANITORIAL ROOMS
6. ALL WALLS SHALL EXTEND FROM FLOOR OR CURB TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR STRUCTURAL FRAMING UNLESS OTHERWISE NOTED. REFERENCE SLAB PLANS FOR WALL CONDITIONS ON CONCRETE CURBS.
7. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH SOUND BATT AND FIRE SEALANT AT ALL FIRE RATED WALLS.
8. FIRE RATINGS SHALL BE MAINTAINED FOR ALL OPENINGS, PENETRATIONS, AND RECESSED ITEMS. COMPLY WITH THE REQUIREMENTS OF CBC SECTION 714 PENETRATIONS.



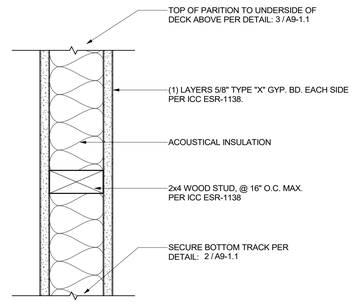
NOTE:
SEE DETAIL 9/SD1.

PARALLEL TO JOISTS

PARTITION TOP | 3 | 3" = 1'-0"



PARTITION SILL | 2 | 3" = 1'-0"



WALL TYPE: A PARTITION TO UNDERSIDE OF DECK

WALL PARTITION TYPES | 1 | 3" = 1'-0"

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID JORDAN SMITH C20495 EXP. 01/31 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

TYPICAL PARTITION TYPES AND DETAILS

SHEET NUMBER:

A9-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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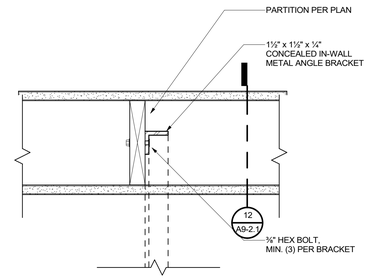
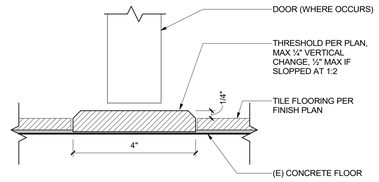
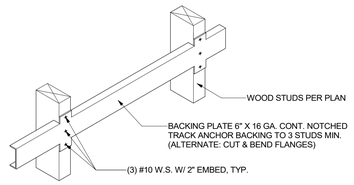


TYP. IN WALL METAL BRACKET | 8 | 3" = 1'-0"

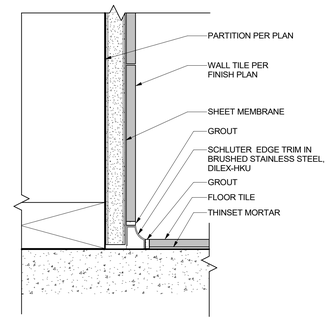


STONE THRESHOLD TRANSITION DETAIL | 4 | 6" = 1'-0"

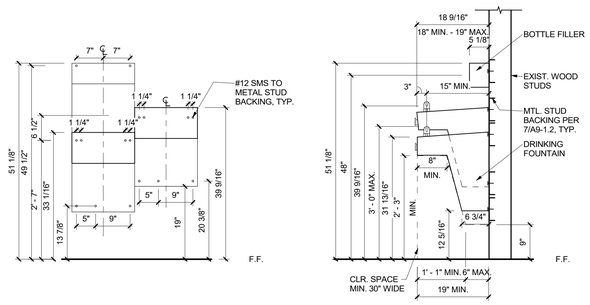


NOTE:
USE #10 SMS WHEN ATTACHING
ITEMS TO BACKING U.N.O.

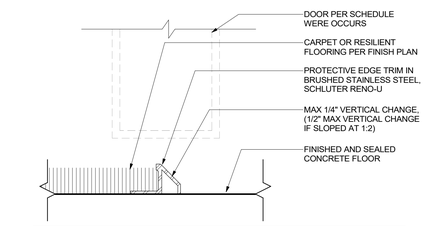
TYP. BACKING DETAIL | 7 | 3/4" = 1'-0"



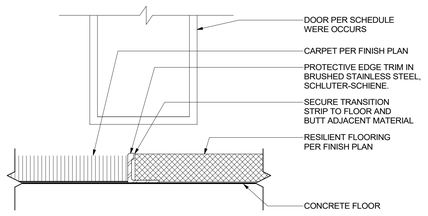
BASE - SCHLUTER DILEX TRIM | 3 | 6" = 1'-0"



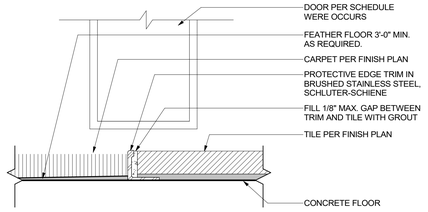
DRINKING FOUNTAIN | 11 | 3/4" = 1'-0"



CARPET OR RESILIENT
FLOORING TO CONCRETE



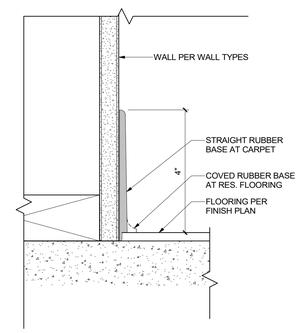
CARPET TO RESILIENT FLOORING



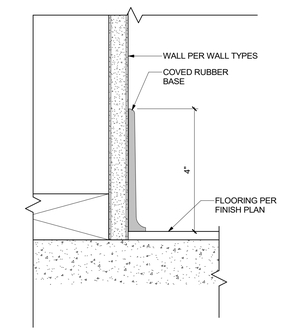
CARPET TO TILE (THINSET)

NOTE: FLOORING INSTALLER TO VERIFY HEIGHT FOR ALL FINISH TRANSITION STRIPS BASED ON ADJACENT MATERIALS PRIOR TO PROCUREMENT.

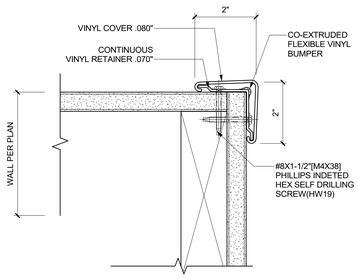
FLOOR TRANSITIONS | 5 | 12" = 1'-0"



BASE - RUBBER TIGHTLOCK | 2 | 6" = 1'-0"



BASE - RUBBER | 1 | 6" = 1'-0"



NOTE:
1 - CORNER GUARD TO SIT ABOVE BASE
2 - CORNER GUARD TO EXTEND 48"
ABOVE BASE

CORNER GUARD | 10 | 6" = 1'-0"

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DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 5/31/23
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

INTERIOR DETAILS

SHEET NUMBER:

A9-1.2

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20624	Author	Checker	08/26/2021

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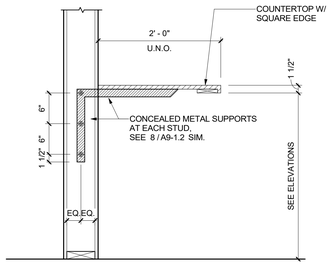
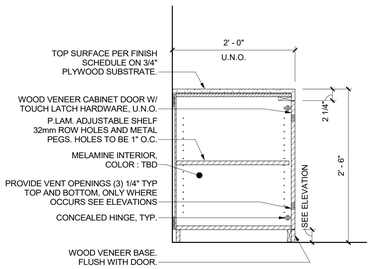


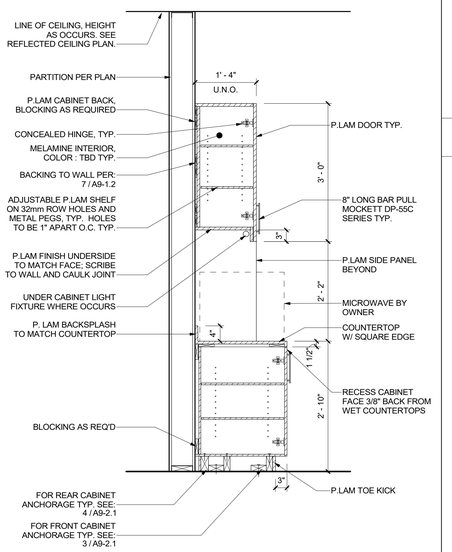
NOTE:

1. SEE G0-1.1 FOR ACCESSIBLE CLEARANCE REQUIREMENTS.

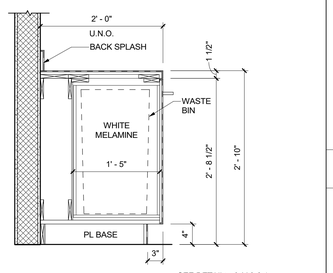
IN-WALL COUNTERTOP — 12 — 1" = 1'-0"



CREDENZA — 11 — 1" = 1'-0"

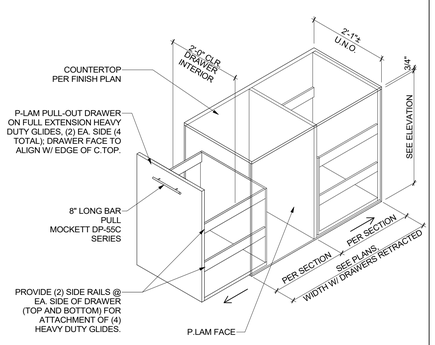


MICROWAVE CUBBY OVER COUNTER — 13 — 3/4" = 1'-0"

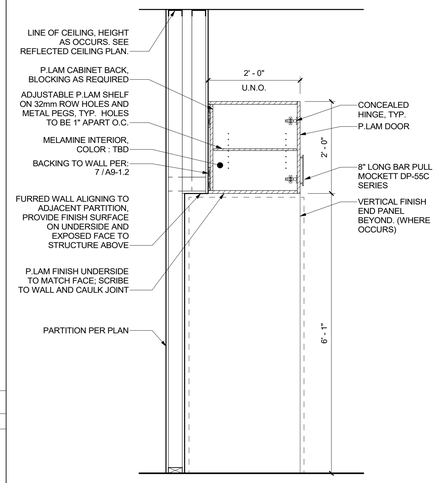


SEE DETAIL: 9 / A9-2.1
FOR ADDITIONAL INFORMATION

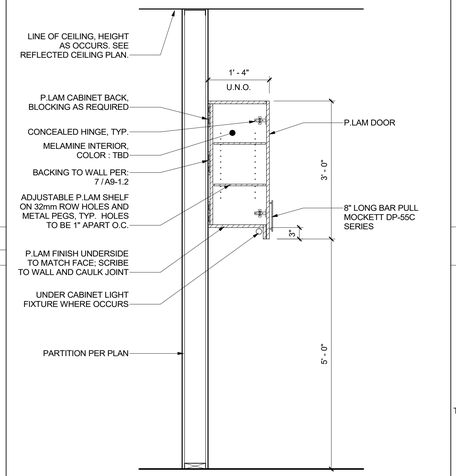
BASE WASTE CABINET AT WALL — 10 — 1" = 1'-0"



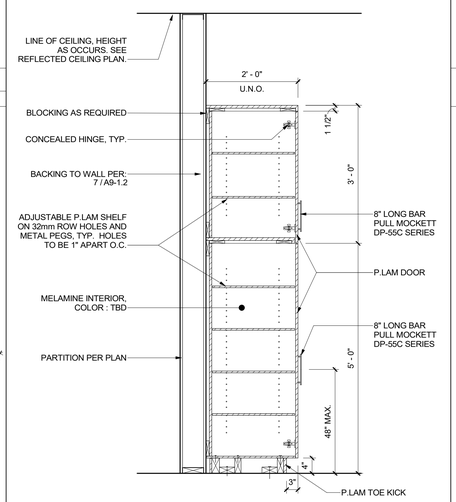
PULL OUT WASTE CABINET — 9 — 3/4" = 1'-0"



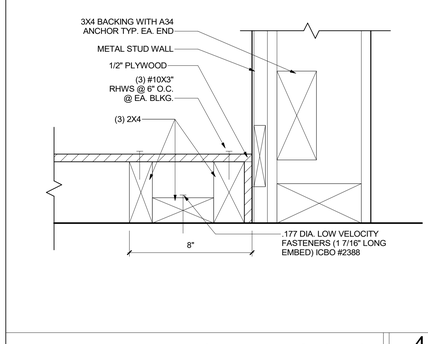
UPPER CABINET ABOVE REFIGERATOR — 8 — 3/4" = 1'-0"



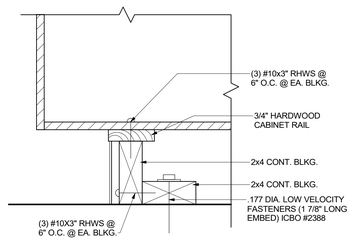
UPPER CABINET W/ DOORS & LIGHT — 7 — 3/4" = 1'-0"



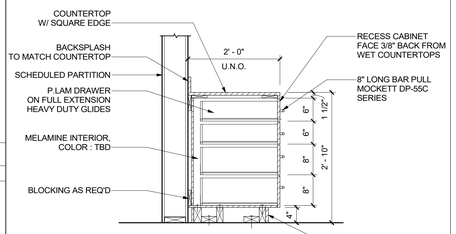
TALL CABINET W/ ADJ. SHELVING — 5 — 3/4" = 1'-0"



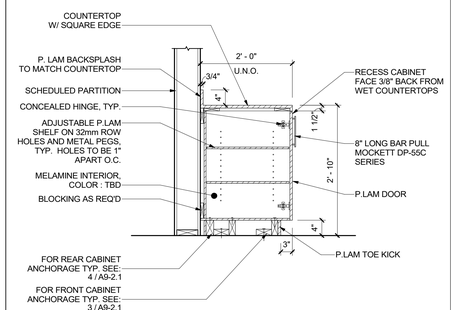
REAR CABINET ANCHORAGE — 4 — 3" = 1'-0"



FRONT CABINET ANCHORAGE — 3 — 3" = 1'-0"



BASE CABINET W/ 4 DRAWERS — 2 — 3/4" = 1'-0"



BASE CABINET W/ DOORS — 1 — 3/4" = 1'-0"

GENERAL NOTES

1. SUBMIT SHOP DRAWINGS AND HARDWARE CATALOG CUT SHEETS OF MILLWORK HARDWARE FOR REVIEW BY THE ARCHITECT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL SHOW THE DESIGN AND ALL OTHER PERTINENT DATA AND INFORMATION AS REQUIRED FOR CONSTRUCTION. ANY VARIATION FROM THE DRAWINGS MUST BE CLEARLY NOTED AS A VARIATION FROM THE REQUIREMENTS. FABRICATION OF MILLWORK SHALL NOT PROCEED UNTIL THE ARCHITECT HAS APPROVED SHOP DRAWINGS.
2. THE METHOD OF MANUFACTURING, FABRICATING, AND INSTALLING MILLWORK AND EQUIPMENT AND ITS STRUCTURAL COMPONENTS DEFINED IN THE CONTRACT DOCUMENTS IS REPRESENTATIVE AND INDICATES DESIGN INTENT ONLY. IF THE MATERIALS, DETAILS, OR DIMENSIONAL PROPERTIES ARE AT VARIANCE WITH THE GC'S OR MANUFACTURER'S RECOMMENDATIONS, ALTERNATE DETAILS WILL BE CONSIDERED FOR REVIEW WHEN SHOP DRAWINGS ARE SUBMITTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE GC TO GUARANTEE THAT THE MILLWORK AND EQUIPMENT WILL HAVE PROPER SUPPORT, STABILITY, AND FAULT-FREE PERFORMANCE. ALL WORK SHALL CONFORM TO ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS FOR PREMIUM CONSTRUCTION.
3. MILLWORK TO BE LAID OUT PER FLOOR PLAN. BEFORE PROCEEDING WITH MILLWORK, THE FABRICATOR IS TO OBTAIN FIELD MEASUREMENTS AND VERIFY DIMENSIONS, AND PROVIDE SHOP-DRAWING DETAILS TO ENSUE AN ACCURATE FIT. ANY VARIANCE FOUND IN THE FIELD MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
4. THE GC SHALL BE RESPONSIBLE FOR MAKING CERTAIN THAT MILLWORK ITEMS ARE NOT DELIVERED UNTIL SPACE IS AIR CONDITIONED AND AREAS ARE SUFFICIENTLY DRY, SO THAT THE MILLWORK WILL NOT BE DAMAGED BY EXCESSIVE CHANGES IN MOISTURE CONTENT.
5. DELIVERED UNITS THAT ARE MARRED, CHIPPED, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REPLACED AS DETERMINED BY THE ARCHITECT. UNITS SHALL BE PROTECTED DURING SHIPMENT AND INSTALLATION. AFTER INSTALLATION OF UNITS IN THEIR PROPER LOCATION, ALL PROTECTION SHALL BE REMOVED AND ALL SURFACES THOROUGHLY CLEANED. REPLACE PROTECTION IF OTHER TRADES ARE STILL ON SITE.
6. INSTALL MILLWORK TO BE PLUMB, LEVEL, TRUE, AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS.
7. CONTRACTOR RESPONSIBLE FOR ASSURING INTEGRITY OF BLOCKING AND ITS LOCATION. ANCHOR MILLWORK TO BUILT-IN BLOCKING OR DIRECTLY ATTACH TO SUBSTRATE. SECURE TO GROUNDS, STRAPPING AND BLOCKING WITH COUNTER SUNK, CONCEALED FASTENERS AND BLIND NAILING, AS REQUIRED, FOR A COMPLETE INSTALLATION.
8. ALL EXPOSED SIDES, ENDS, AND BACKS OF MILLWORK ARE TO BE FINISHED.
9. CABINET INTERIORS SHALL BE FINISHED TO MATCH EXTERIOR, U.N.O.
10. FILLER PANEL TO BE PROVIDED AT CABINETS ABUTTING WALLS OR OTHER CASEWORK, TYP. FILLER PANEL TO BE MINIMAL, NOT TO EXCEED 1" IN WIDTH, U.N.O. OR UNLESS NECESSARY FOR FUNCTION OF DOORS OR DRAWERS.
11. SAMPLES OF ALL MILLWORK FINISHES, INCLUDING FINISHED WOOD SPECIES, ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND WRITTEN APPROVAL. PROCUREMENT OF MATERIALS NOT TO PROCEED UNTIL SUCH SAMPLES HAVE BEEN APPROVED.
12. VERIFY ACCOMMODATION FOR TENANT PROVIDED EQUIPMENT PRIOR TO FABRICATION OF MILLWORK.
13. WHERE UNDER- AND/OR ABOVE-CABINET LIGHTING OCCURS, LIGHT FIXTURE IS TO BE CONCEALED BY MEANS OF AN EXTENDED PANEL AT ALL ENDS OF CABINETRY NOT ABUTTING A WALL OR OTHER VERTICAL ELEMENT. TOP AND/OR BOTTOM OF END PANELS ARE TO ALIGN WITH TOP/BOTTOM OF FACE OF MILLWORK FOR CONTINUOUS APPEARANCE, U.N.O.
14. REFER TO FINISH PLAN SHEETS AND ELEVATIONS FOR MILLWORK FINISH MATERIALS.

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FILLMORE, CA 93015

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DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — DAVID JORDAN WESTGROUP — C20495 — EXP. 11/30 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

MILLWORK DETAILS

SHEET NUMBER:

A9-2.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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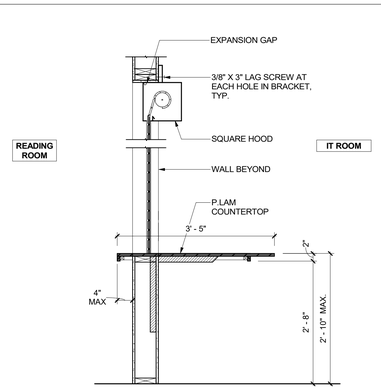
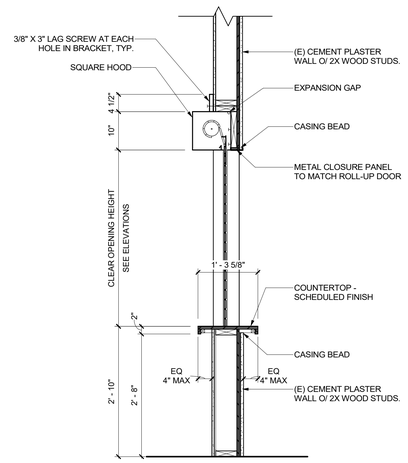
GENERAL NOTES

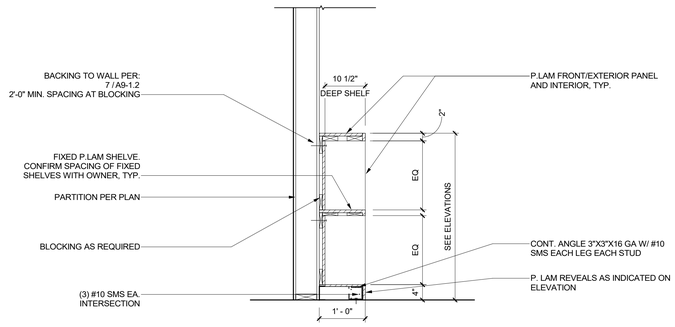
1. SEE SHEET A9-3.1 FOR TYPICAL MILLWORK NOTES.
2. SEE SHEET A2-3.1 FOR FINISH SCHEUDLE.



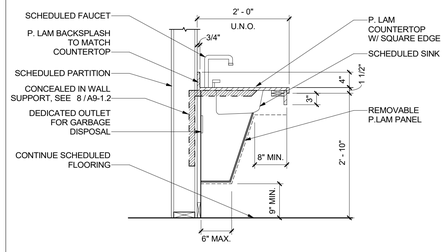
PASS-THROUGH WINDOW | 7 | 3/4" = 1'-0"



CONCESSION - PASS-THROUGH COUNTER | 3 | 3/4" = 1'-0"



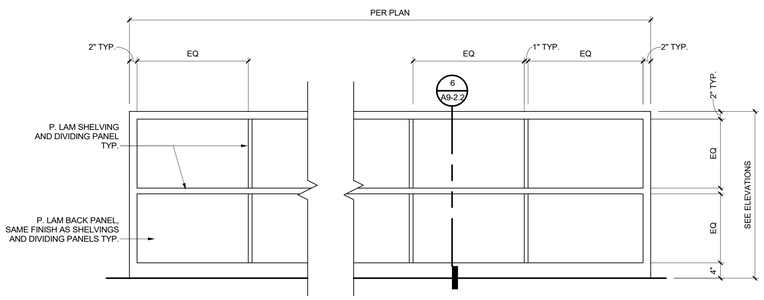
CAREER CENTER CUBBY SECTION | 6 | 3/4" = 1'-0"



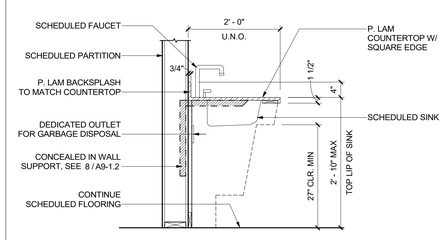
NOTE:

1. SEE G-1.1 FOR ACCESSIBLE CLEARANCE REQUIREMENTS.

ACCESSIBLE BASE PANEL @ SINK | 2 | 3/4" = 1'-0"



CAREER CENTER CUBBY | 5 | 3/4" = 1'-0"



NOTE:

1. SEE G-1.1 FOR ACCESSIBLE CLEARANCE REQUIREMENTS.

ACCESSIBLE BASE CABINET @ SINK | 1 | 3/4" = 1'-0"

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REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT DAVID ZOPOLI SMITH C20495 EXP. 6/30 Renewal Date STATE OF CALIFORNIA

SHEET TITLE:

MILLWORK DETAILS

SHEET NUMBER:

A9-2.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	Author	Checker	08/26/2021

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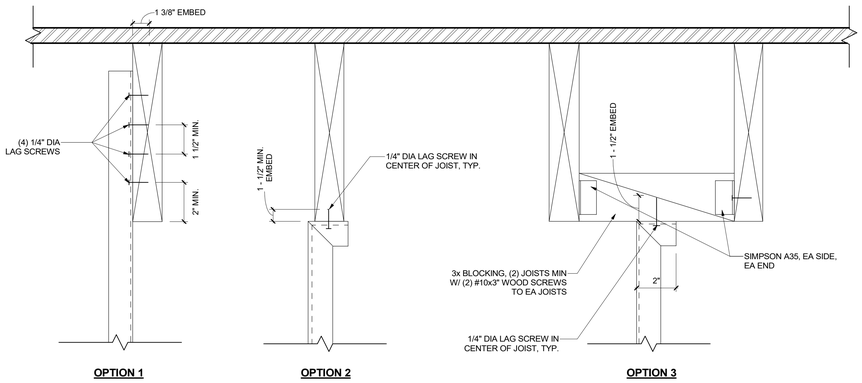
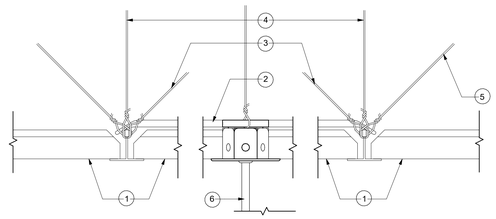


STUD COMPRESSION STRUT TO WOOD JOISTS — 12 — 3" = 1'-0"



NOTES:

1. SUSPENDED ACOUSTICAL CEILING TILE SYSTEM.
2. MOUNTING BRACKET.
3. STEEL SPLAY WIRES @ MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION 8'X12' (96 S.F.) O.C. EA. WAY SPLAYED 90° FROM EA. OTHER FROM PLANE OF CLG.
4. STEEL HANGER WIRES @ EA. MAIN RUNNER 4'-0" O.C. SECURE WIRES TO STRUCT. ABOVE.
5. FOR WIRE CONNECTION TO STRUCTURE ABOVE, SEE DETAILS 2/A9-3.2 AND 3/A9-3.2.
6. PENDANT ROD.

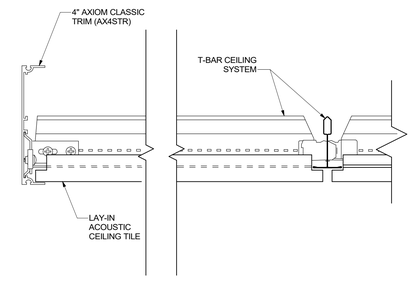
PENDANT ANCHORAGE — 11 — 3" = 1'-0"

10B — 1" = 1'-0" — **BRACED WALL ATTACHMENT**

LAY-IN TILES

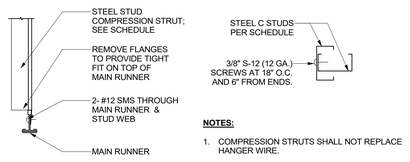
10A — 1" = 1'-0" — **NON-BRACED WALL ATTACHMENT**

LAY-IN CEILING WALL CONNECTION — 10 — 1" = 1'-0"



EDGE TRIM AT OPEN CEILINGS — 13 — 6" = 1'-0"

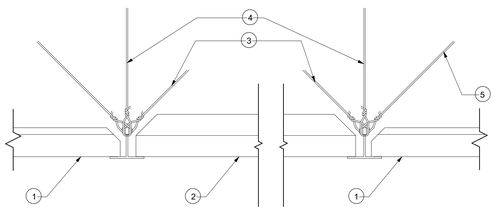
COMPRESSION STRUT SCHEDULE		
MAX LENGTH OF STRUT	STRUT	SSMA DESIGNATION
7'-4"	2 1/2" x 20 GA "C" - STUDS	250S137-33
11'-2"	2 - 2 1/2" x 20 GA "C" - STUDS SEE DET. BELOW	2-250S162-33
16'-6"	2-3 1/2" x 18 GA. "C" - STUD SEE DET. BELOW	2-350S250-43
23'-0"	2-3 1/2" x 18 GA. "C" - STUD SEE DET. BELOW	2-3505250-43



NOTES:

1. COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRE.
2. CEILING TILE NOT SHOWN FOR CLARITY.

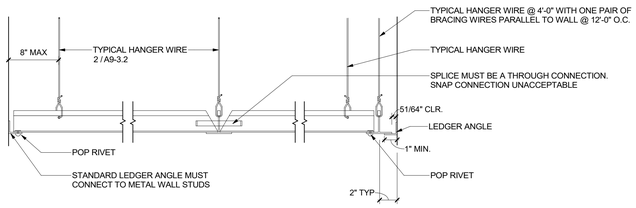
COMPRESSION STRUT — 9 — 1/2" = 1'-0"



NOTES:

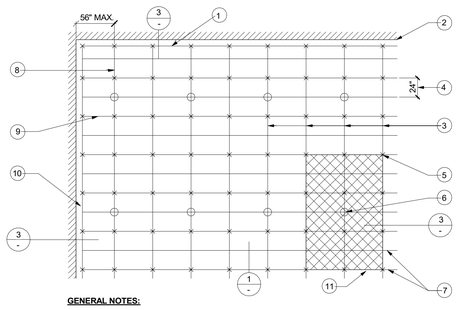
1. SUSPENDED ACOUSTICAL CEILING TILE SYSTEM.
2. 2X4 RECESSED LIGHT FIXTURES POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM WITH STEEL POP RIVETS.
3. STEEL SPLAY WIRES @ MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION 8'X12' (96 S.F.) O.C. EA. WAY SPLAYED 90° FROM EA. OTHER FROM PLANE OF CLG.
4. STEEL HANGER WIRES @ EA. MAIN RUNNER 4'-0" O.C. SECURE WIRES TO STRUCT. ABOVE.
5. FOR WIRE CONNECTION TO STRUCTURE ABOVE, SEE DETAILS 2/A9-3.2 AND 3/A9-3.2.

RECESSED FIXTURE — 4 — 3" = 1'-0"



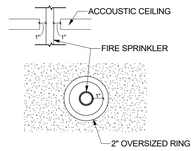
CONNECTED WALL **RUNNER SPLICE** **WALL SLIP**

LAY-IN CEILING AT WALL — 3 — 1" = 1'-0"



1. 8" MAX. FIRST CROSS-FURRING TO WALL
2. WALL LINE
3. MAIN RUNNERS
4. 2'-0". TYP. BET. CROSS FURRING
5. VERTICAL WIRE
6. SPLAY WIRE & COMPRESSION STRUT @ 8' X 12' (96 S.F.) GRID. FIRST POINT WITHIN 6" OF WALL.
7. CROSS FURRING
8. 6'-0" FROM SPLAY WIRE TO WALL
9. 4'-0" FROM SPLAY WIRE TO WALL
10. 8" MAX. FIRST MAIN RUNNER TO WALL
11. 4'-0" TYP. BETWEEN MAIN RUNNERS
12. FIRE SPRINKLER PENETRATION DETAIL (A)

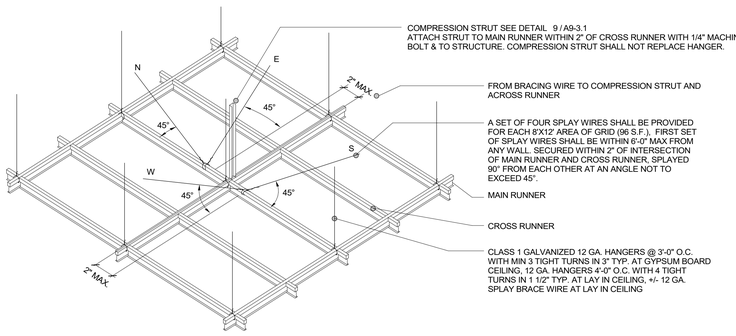
FIRE SPRINKLER HEAD CLEARANCE DETAIL (A)



GENERAL NOTES:

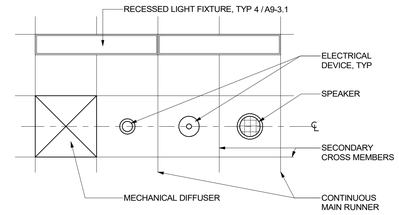
1. ONLY HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED PER ASTM C635.
2. SUSPENDED CEILINGS SHALL COMPLY WITH CBC sec. 2501.1.1, 2504, & 2511.
3. METAL SUSPENSION SYSTEMS FOR ACOUSTICAL & LAY-IN CEILING PANELS SHALL CONFORM WITH ASTM C635, C636, AND E580, SECTION 5.1. IN ADDITION, METAL SUSPENSION SYSTEMS SHALL COMPLY WITH sec. 13.5.6 OF ASCE 7 AS MODIFIED BY CBC, sec. 1613A.
4. CEILING GRIDS EXCEEDING 2,500SF SHALL INCLUDE A SEISMIC SEPARATION JOINT DIVIDING GRID. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES.
5. ALL SPRINKLER PENETRATION IN ACOUSTIC TILE CEILINGS SHALL PROVIDE 2" OVERSIZED RING TO ACCOMODATE 1" CLEARANCE IN ALL HORIZONTAL DIRECTIONS.

DIAGRAMATIC T-BAR CEILING — 2 — 1/2" = 1'-0"



T-BAR CEILING SUPPORT — 1 — 1/8" = 1'-0"

DEVICE LAYOUT @ LAY-IN CEILING



NOTES:

1. CENTER DEVICE ON LIGHT FIXTURE OR MECHANICAL DIFFUSER WHERE OCCURS.
2. CENTER DEVICES IN CEILING TILE, NO MORE THAN ONE DEVICE PER 2x2 TILE.
3. WHERE MULTIPLE DEVICES OCCUR, CONSOLIDATE INTO ONE AREA WHERE POSSIBLE.

GENERAL NOTES

CEILING GRIDS SHALL MEET REQUIREMENTS OF IR 25.2

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING AND SHALL BE ATTACHING TO MAIN RUNNERS.
2. PROVIDE 12 GA. HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" OF THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS 8" OR LESS.END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED HORIZONTAL FORCES MAY BE USED IN LIEU OF THE 12 GA. HANGER WIRES.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS, OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER SLOPING WIRES.
4. CEILING GRID MEMBERS SHALL BE ATTACHED TO 2 ADJACENT WALLS PER ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE LATERAL-FORCED BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND SETS OF FOUR 12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT TO BE PERMITTED WITHOUT PRIOR APPROVAL.
7. FASTEN 12GA. HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOP SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS. FASTEN 10 GA. OR 12 GA BRACING WIRE WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2". DIRECTION OF ALL ANCHOR TO STRUCTURE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING APPROVED CONNECTORS.
9. WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 POUNDS OF TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD-TESTED FOR 440 POUNDS OF TENSION IN THE DIRECTION OF WIRE. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, ALL ADJACENT ANCHORS MUST BE TESTED. SUBMIT ICBO REPORTS FOR ALL EXPANSION ANCHORS OR SHOT-IN ANCHORS BEFORE USE FOR APPROVAL.
10. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
11. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS CLASSIFIED AS ASTM HEAVY-DUTY GRID BUT THEY MUST ALSO HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GA. WIRES EACH ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE 4 TAUT 12 GA. WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.
12. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GA. ROTATIONAL STRING CATCHES DO NOT COMPLY. A 12 GA. SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN FIXTURES ARE 8 FT. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8'.
13. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 2 TIMES THE WEIGHT OF THE FIXTURES. (SEE ALSO NOTE 10 ABOVE.)
14. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS ETC., SHALL BE ATTACHED TO THE GRID CEILING ONLY. DEVICES WEIGHING MORE THAN 10LBS. SHALL HAVE A 12GA. SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS SHALL BE SUPPORTED PER NOTE 11.
15. ALL CEILING SUSPENSION SYSTEM COMPONENTS SHALL BE "HEAVY DUTY" TYPE.

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	08/26/2021

REVISIONS:

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JORDAN SMITH — C20495 — EXP. 5/31/23 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

ACOUSTIC CEILING DETAILS

SHEET NUMBER:

A9-3.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	NG/CM	JJS	08/26/2021

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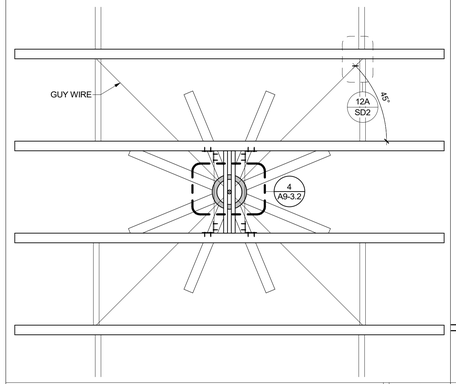
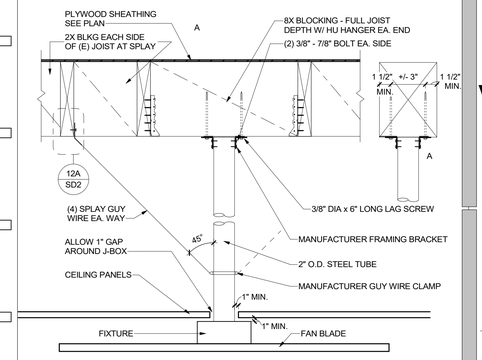
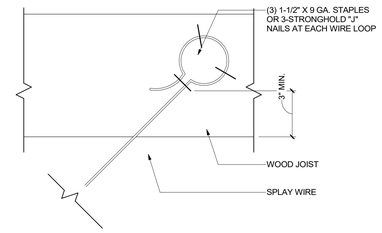


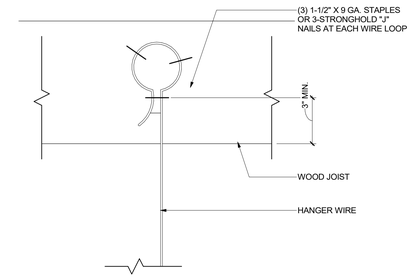
BIG ASS FAN PLAN VIEW | 8 | 3/4" = 1'-0"



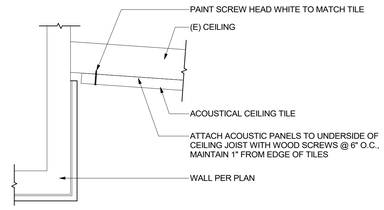
BIG ASS FAN CONNECTION | 4 | 3/4" = 1'-0"



SPLAY WIRE CONNECTION TO WOOD JOIST | 3 | 3" = 1'-0"



HANGER WIRE CONNECTION TO WOOD JOIST | 2 | 3" = 1'-0"



ANGLED CEILING WALL CONNECTION | 1 | 1" = 1'-0"

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DSA BACK CHECK	04/23/2021

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT
DAVID JORDAN SMITH
C20495
EXP. 6/30/
Renewal Date
STATE OF CALIFORNIA

SHEET TITLE:

ACOUSTIC CEILING DETAILS

SHEET NUMBER:

A9-3.2

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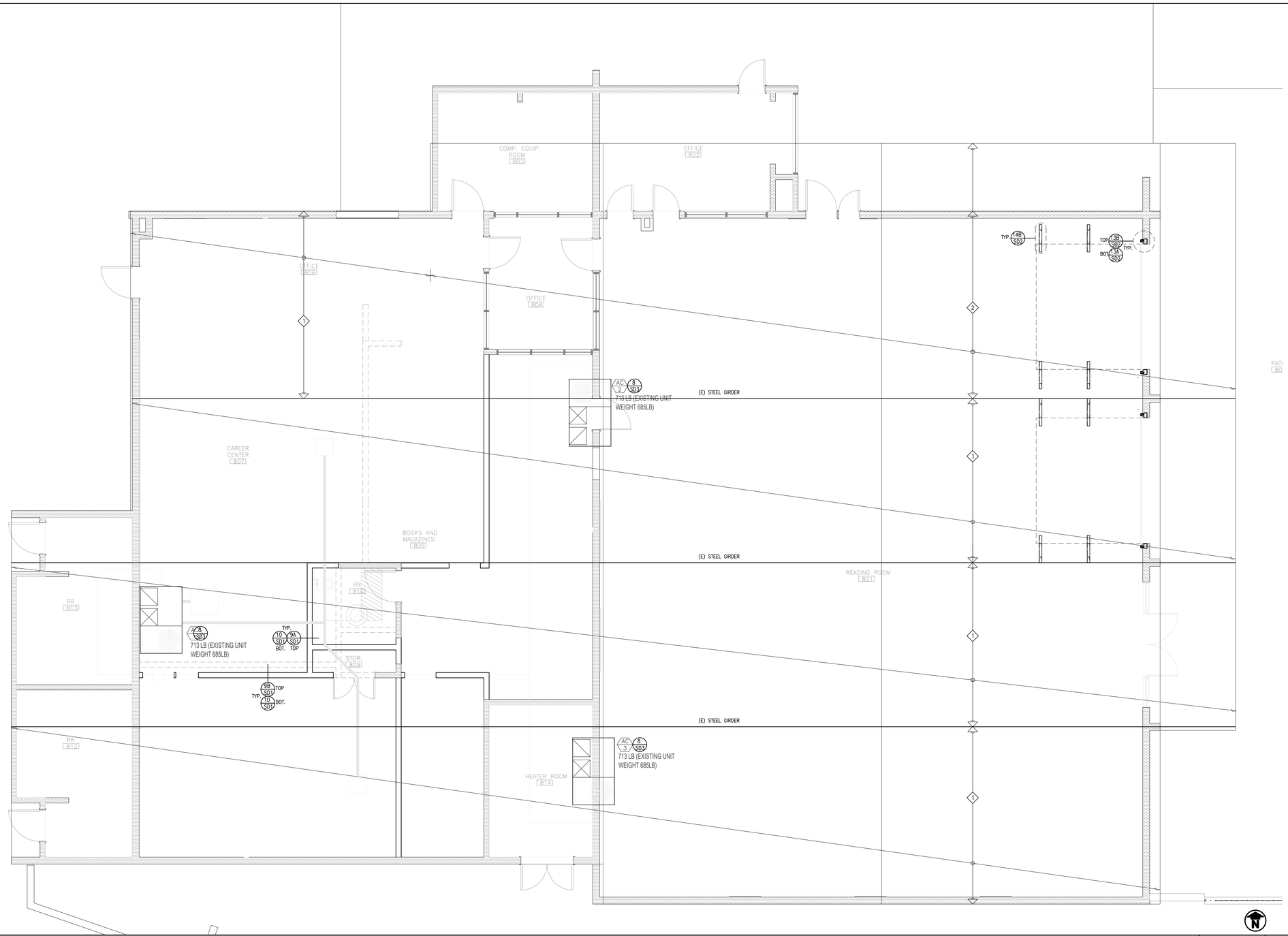

SYMBOLS LEGEND

- POST OR TRIMMER AS NOTED
- R/R — SPAN AND DIRECTION OF FRAMING MEMBER PER SCHEDULE
- C/J
- V — SHEAR PANEL NUMBER, MINIMUM LENGTH NOTED, REFER TO SHEET SD-2 FOR PANEL TYPE
- V — SHEAR PANEL ABOVE BEAM OR CEILING LINE TO ROOF AS SHOWN
- X / SDX — DETAIL NUMBER / DETAIL SHEET NUMBER
- X — BEAM NUMBER, REFER TO COAST ENGINEERING DESIGNS INC. CALCULATIONS
- X — KEY NOTE NUMBER
- EXISTING WALL TO REMAIN
- NEW WALL
- WALL TO BE REMOVED
- C/L BEAM/HDR AS SHOWN

JOIST FRAMING SCHEDULE

1. (E) 2 X ROOF JOIST AT 24" O/C.
2. (E) 2 X CANT. ROOF JOIST AT 24" O/C.
3. (E) 2 X 8 ROOF JOIST AT 24" O/C.
4. (E) 2 X 8 CANT. ROOF JOIST AT 16" O/C.
5. (E) 2 X 10 CEILING JOIST AT 36" O/C.

POST SCHEDULE

NOTE: ALL POSTS ARE DF. NO. 1

P46 — 4 X 8 POST

FRAMING NOTES

1. REFER TO STRUCTURAL GENERAL NOTES SHEET SD-2 FOR SHEAR WALL SCHEDULE, ROOF AND FLOOR SHEATHING, AND MORE INFORMATION.
2. POSTS AND HOLDOWNS SHOWN ON FOUNDATION PLAN DO NOT REFLECT EXACT PRECISE LOCATION OF HARDWARE. FRAMING CONTRACTOR TO LOCATE HOLDOWNS CONSIDERING TRIMMERS. WHERE PLAN CALLS FOR POST AT END OF SHEAR PANELS, THE POST MUST BE FULL HEIGHT TO TOP PLATE. USE POSTS AS TRIMMERS ONLY WHERE PLAN SPECIFICALLY CALLS FOR.
3. **WHERE PLUMBING DRAINPIPE OR VENT PIPE CUT THROUGH STUD WALL, WALL SHALL BE 2X6 STUD WALL OR TWO 2X4 STUD WALLS WITH PLYWOOD SHEAR PANEL ON NON-PLUMBING WALL.**
4. PROVIDE CONTINUOUS SOLID BLOCKING AT MID HEIGHT OF ALL STUD WALLS OVER 8 FEET IN HEIGHT.
5. SEE DETAIL 14/SD-1 FOR TYPICAL HOLES AND NOTCHES IN STUDS.
6. SEE DETAIL 7/SD-2 FOR TYPICAL WALL FRAMING DETAIL.
7. FASTENER FOR PRESSURE TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
8. DUE TO THE NATURE OF REMODELING AN EXISTING STRUCTURE, THERE MAY BE AREAS OF ASSUMPTION. DUE TO THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENSIVE INVESTIGATION PRIOR TO BID AND BEGINNING CONSTRUCTION. THE DESIGNER AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY COMPLICATIONS ARISING DURING THE COURSE OF THE PROJECT. THE INTERIORS ARE TO BE DESIGNED BY OWNER. VERIFY AS REQUIRED DURING CONSTRUCTION.

LIBRARY ROOF FRAMING PLAN | SCALE 1/4"=1'-0" | 1

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

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DSA PLAN CHECK	11/05/2021

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DEPARTMENT OF THE STATE ARCHITECT

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APP #: .....03-121233.....
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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER — TAMMO REJAI — NO. 3970 — EXP12-31-21 — STATE OF CALIFORNIA

11/2/2021

SHEET TITLE:

LIBRARY ROOF FRAMING PLAN

SHEET NUMBER:

S-1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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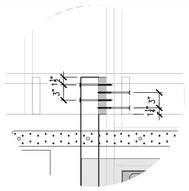
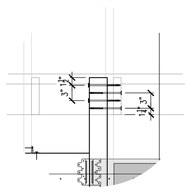
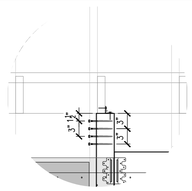


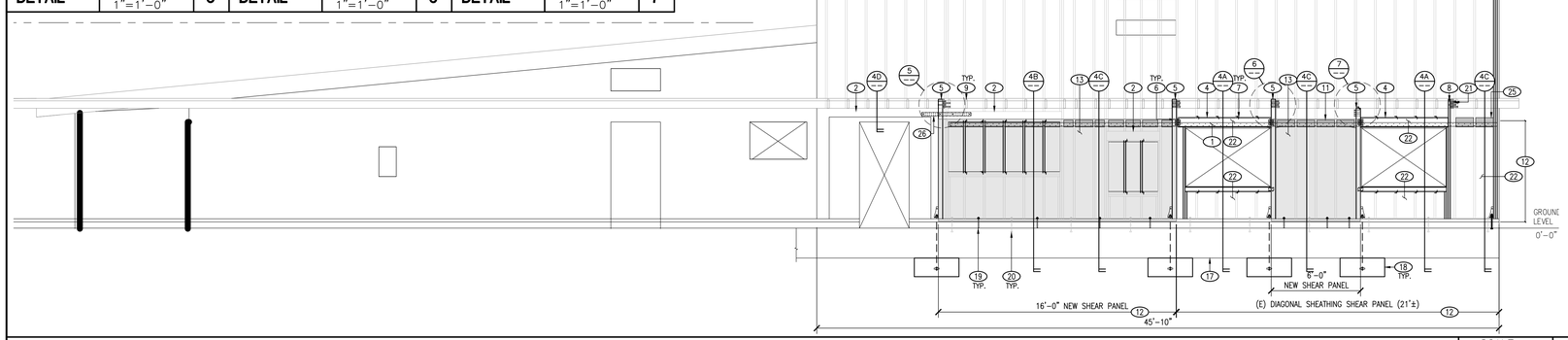
DETAIL | SCALE 1"=1'-0" | 5



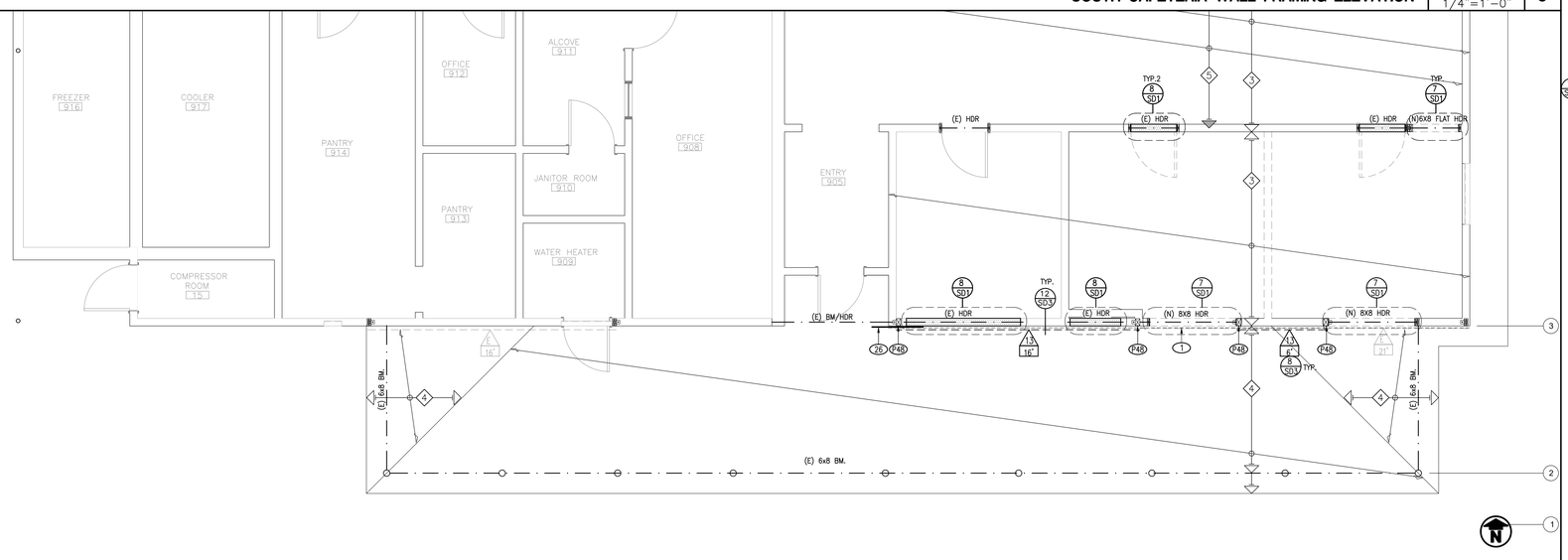
DETAIL | SCALE 1"=1'-0" | 6



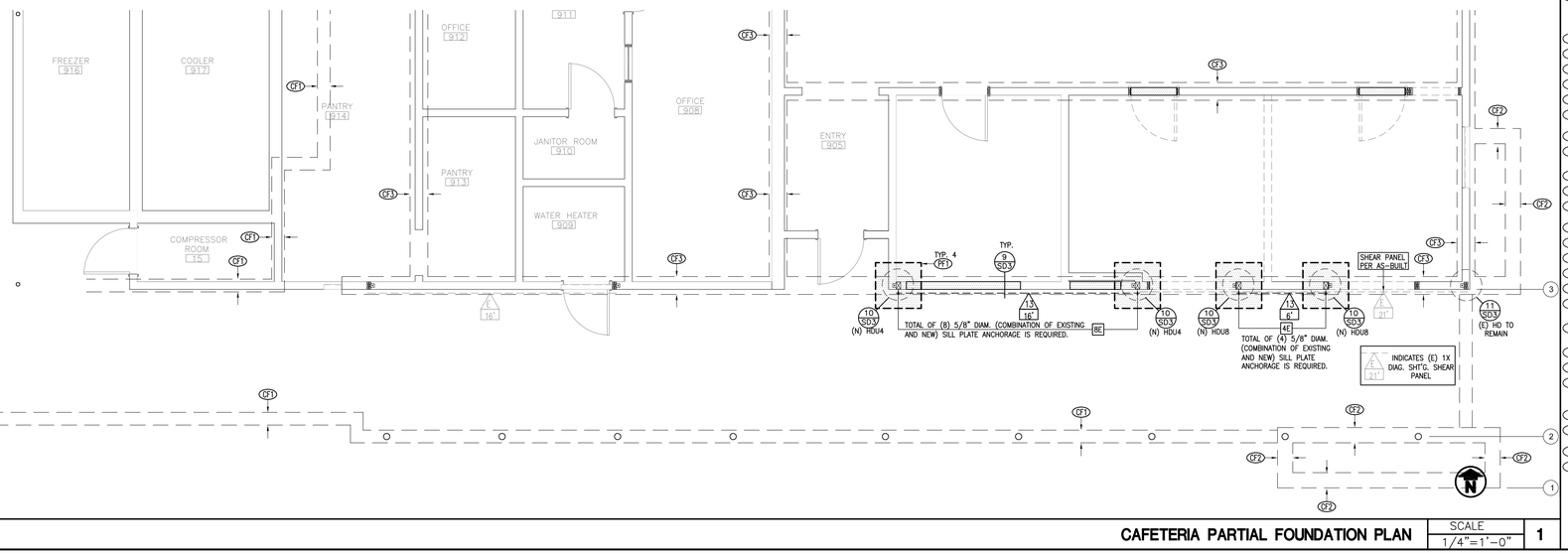
DETAIL | SCALE 1"=1'-0" | 7



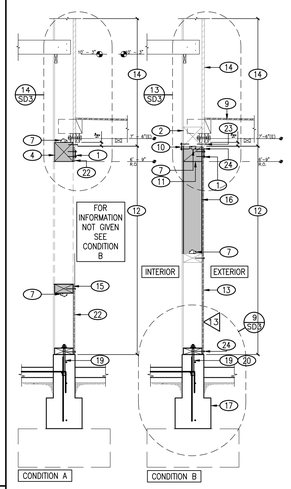
SOUTH CAFETERIA WALL FRAMING ELEVATION | SCALE 1/4"=1'-0" | 3

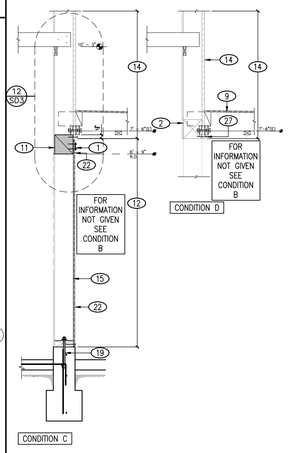


CAFETERIA PARTIAL ROOF FRAMING PLAN | SCALE 1/4"=1'-0" | 2



CAFETERIA PARTIAL FOUNDATION PLAN | SCALE 1/4"=1'-0" | 1





SECTIONS | SCALE 1/2"=1'-0" | 4

KEY NOTES (ROOF AND WALL FRAMING)

1. (N)CMST16 (CONTINUOUS 38'±) COILED STRAP WITH 16d SINKER NAILS AT 3" O/C AT NEW BLOCKING AND NEW/EXISTING HEADER. APPLY OVER WALL NEW PLYWOOD SHEATHING
2. (E) HDR.
3. (E) STUD
4. (N) HDR. AT (N) OPENING PER ARCH. PLAN
5. (N) SHEAR WALL END POST WITH HOLD-DOWN PER PLAN
6. (N) LTP5 FRAMING PLATE BOTH SIDES
7. (N) A34 FRAMING ANGLE PER DETAILS 7/SD1 AND 8/SD1 AS APPLICABLE
8. (N) SDS 1/4 X 4 1/2 SCREW AS SHOWN
9. (E) 2X8 WALKWAY ROOF JOISTS AT 16" O/C. LAPPED W/ (E) STUD PER DETAIL 12/SD.3
10. (N) LTP5 AT 12" O/C AT (N) BLOCKING AND (E) HDR.
11. (N) 6X8 CONT. BLK'G.
12. REMOVE 1X DIAG. SHT'G. BELOW EXISTING HEADER THE ENTIRE WALL.
13. (N) SHEAR PANEL PER PLAN
14. (E) 1X DIAG. SHT'G. TO REMAIN INTACT
15. (N) 3X8 WINDOW SILL
16. (N) 2X8 FILL IN STUD AT 16" O/C. PER DETAIL 8/SD1
17. (E) CONT. FOOTING
18. (N) PAD FOOTING AT (N) HOLD-DOWN ANCHOR PER DETAIL 10/SD3 AND FOUNDATION PLAN
19. ADDITIONAL (N) SHEAR WALL SILL PLATE ANCHORAGE PER DETAIL 9/SD3
20. (E) 5/8"ø SILL PLATE ANCHOR AT 48" O/C.
21. (N) WOOD FILLER SAME DEPTH AS STUD
22. (N)15/32" STRUCTURAL I (FILLER), 5 PLY APA RATED, 32/16 P.I., W/8d AT 6" O/C AT EDGES AND 12" O/C AT FIELD
23. NEW (3) 8d NAILS PER BOARD
24. NEW SHEAR PANEL EDGE NAILING PER SHEAR WALL SCHEDULE, SHEET SD2
25. (N) 8X8 CONT. BLK'G.
26. STRAP TIE (E)HDR/BM TO (E)8X8 HEADER W/(N)MSTC40. EQUAL LENGTH OF STRAP TO BE NAILED TO EACH. MINIMUM (14) 0.148" X 3 1/4" PER EXISTING BEAM

SYMBOLS LEGEND

- POST OR TRIMMER AS NOTED
- SPAN AND DIRECTION OF FRAMING MEMBER PER SCHEDULE
- SHEAR PANEL NUMBER, MINIMUM LENGTH NOTED, REFER TO SHEET SD-2 FOR PANEL TYPE
- SHEAR PANEL ABOVE BEAM OR CEILING LINE TO ROOF AS SHOWN
- DETAIL NUMBER / DETAIL SHEET NUMBER
- BEAM NUMBER, REFER TO COAST ENGINEERING DESIGNS INC. CALCULATIONS
- KEY NOTE NUMBER
- EXISTING WALL TO REMAIN
- NEW WALL
- WALL TO BE REMOVED
- C/L BEAM/HDR AS SHOWN

JOIST FRAMING SCHEDULE

1. (E) 2 X ROOF JOIST AT 24" O/C.
2. (E) 2 X CANT. ROOF JOIST AT 24" O/C.
3. (E) 2 X 8 ROOF JOIST AT 24" O/C.
4. (E) 2 X 8 CANT. ROOF JOIST AT 16" O/C.
5. (E) 2 X 10 CEILING JOIST AT 36" O/C.

POST SCHEDULE

NOTE: ALL POSTS ARE DF. NO. 1

- 4 X 8 POST

FRAMING NOTES

1. REFER TO STRUCTURAL GENERAL NOTES SHEET SD-2 FOR SHEAR WALL SCHEDULE, ROOF AND FLOOR SHEATHING, AND MORE INFORMATION.
2. POSTS AND HOLDOWNS SHOWN ON FOUNDATION PLAN DO NOT REFLECT EXACT PRECISE LOCATION OF HARDWARE. FRAMING CONTRACTOR TO LOCATE HOLDOWNS CONSIDERING TRIMMERS. WHERE PLAN CALLS FOR POST AT END OF SHEAR PANELS, THE POST MUST BE FULL HEIGHT TO TOP PLATE. USE POSTS AS TRIMMERS ONLY WHERE PLAN SPECIFICALLY CALLS FOR.
3. WHERE PLUMBING DRAINPIPE OR VENT PIPE CUT THROUGH STUD WALL, WALL SHALL BE 2X6 STUD WALL OR TWO 2X4 STUD WALLS WITH PLYWOOD SHEAR PANEL ON NON-PLUMBING WALL.
4. PROVIDE CONTINUOUS SOLID BLOCKING AT MID HEIGHT OF ALL STUD WALLS OVER 8 FEET IN HEIGHT.
5. SEE DETAIL 14/SD-1 FOR TYPICAL HOLES AND NOTCHES IN STUDS.
6. SEE DETAIL 7/SD-2 FOR TYPICAL WALL FRAMING DETAIL.
7. FASTENER FOR PRESSURE TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
8. DUE TO THE NATURE OF REMODELING AN EXISTING STRUCTURE, THERE MAY BE AREAS OF ASSUMPTION. DUE TO THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENSIVE INVESTIGATION PRIOR TO BID AND BEGINNING CONSTRUCTION. THE DESIGNER AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY COMPLICATIONS ARISING DURING THE COURSE OF THE PROJECT. THE INTERIORS ARE TO BE DESIGNED BY OWNER. VERIFY AS REQUIRED DURING CONSTRUCTION.

SYMBOLS LEGEND

- FOOTING
- POST WITH HOLD-DOWN. HOLD-DOWN IS SIMPSON HDU2 MIN. UNLESS NOTED OTHERWISE.
- PF1 PAD FOOTING NUMBER
- CF1 CONTINUOUS FOOTING NUMBER
- X ANCHOR BOLT NUMBER OR SPACING PER SCHEDULE BELOW

ANCHOR ROD SCHEDULE AT EXISTING FOUNDATION

PROVIDE 5/8" DIAMETER THREADED ROD WITH 3" SQUARE X 0.229" (3GA.) PLATE WASHERS AT 4" STUD WALL AND 3"X4 1/2"X0.229"(3GA.) PLATE WASHERS AT 6" STUD WALL, UNDER NUT, AT MAX. 48" SPACING AT ALL BEARING, EXTERIOR, AND SHEAR WALLS UNLESS NOTED OTHERWISE PER SCHEDULE BELOW. THE THREADED RODS AS INDICATED HERE AND ON THE PLAN ARE IN ADDITION TO REQUIRED HOLD DOWN ANCHORAGE ROD. ALL TREADED RODS TO BE SET IN SIMPSON "SET-XP" EPOXY (ICC-ESR2508) W/5" MIN. EMBEDMENT INTO EXISTING CONTINUOUS FOOTING BELOW SLAB.

- 48"ø 5/8" DIAMETER THREADED ROD AT 48" O.C.
- 8E MINIMUM (6) 5/8" DIAMETER THREADED ROD EQUALLY SPACED
- 4E MINIMUM (4) 5/8" DIAMETER THREADED ROD EQUALLY SPACED
- 3E MINIMUM (3) 5/8" DIAMETER THREADED ROD EQUALLY SPACED

FOUNDATION NOTES

ALL PRESSURE TREATED LUMBER MUST BE TREATED WITH SODIUMN BORATE (SBX) OR CHROMATED COPPER ARSENATE (CCA-C) TO AVOID CORROSION OF HARDWARE IN CONTACT WITH TREATED LUMBER. IF OTHER TYPES OF TREATED WOOD TO BE USE. ALL CONNECTORS AND FASTENERS IN PRESSURE TREATED AND FIRE-RETARDANT, TREATED WOOD SHALL BE OF HOT DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER 2304.9.5 CBC.
THE CONNECTOR AND FASTENERS INCLUDE (BUT NOT LIMITED TO); NAILS, BOLTS, SCREWS, WASHERS, POWER DRIVEN EXPANSION BOLTS AND FABRICATED SHEET METAL TIMBER FRAMING CONNECTORS ETC.

1. ALL CONTINUOUS EXTERIOR FOOTINGS AND INTERIOR BEARING WALLS TO HAVE 5/8" DIA. X 12" A.B.'S (MIN. 7" EMBEDMENT INTO CONCRETE) AT 48" O.C. UNLESS NOTED OTHERWISE ON PLANS WITH 3" X 3" X 4 1/2"X 0.229"(3GA.) THICK PLATE WASHERS AT 6" STUD WALLS. ONE ANCHOR BOLT SHOULD BE LOCATED MIN. 5" AND MAX. 12" AWAY FROM THE END OF THE SILL PLATES. MIN. (2) A.B.'S PER SILL PLATE, PER SHEAR PANEL, OR PIECES OF FOUNDATION SILL PLATES. PROVIDE MINIMUM EDGE DISTANCE OF 1 7/8" FOR THE 5/8" DIAM. ANCHOR BOLTS.
3. ALL HOLDOWNS AND POST ANCHORS ARE TO BE INSTALLED ACCORDING TO SIMPSON STRONG TIE SPECIFICATIONS AND REQUIREMENTS OF ICC-ESR 2330 REPORT AND SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
4. FOUNDATION SILL PLATE SHALL BE DOUGLAS FIR (GROUP II LUMBER) PRESSURE TREATED LUMBER OR FOUNDATION GRADE REDWOOD.

PAD & CONT. FOOTING SCHED.

NOTE:

PRIOR TO POURING THE NEW CONC. AGAINST THE EXISTING CONC., CHIP AND CLEAN THE SURFACE OF EXISTING TO EXPOSED AGGREGATE.

PAD FOOTING SCHEDULE

FOOTING MARK	SIZE				FOOTING BARS BOTH WAY		REMARKS
	WIDTH	LENGTH	THICKNESS	DEPTH INTO LOWEST ADJACENT FINAL GRADE	TOP BARS	BOTTOM BARS	
PF1	(N)36"	(N)36"	18"	N/A	(4) #5	(4) #5	UNDERPIN (E) CONT. FOOTING

CONTIUOUS FOOTING SCHEDULE

BOTTOM OF ALL FOOTINGS TO BE PLACED AT A MINIMUM DEPTH OF 18" BELOW THE LOWEST ADJACENT FINAL GRADES

FOOTING MARK	SIZE			FOOTING BARS BOTH WAY		REMARKS
	WIDTH	THICKNESS	LENGTH	TOP BARS	BOTTOM BARS	
CF1	(E) 10"	12"	CONT.	(4) #5	(4) #5	TO BE VERIFIED BY PROJECT CONTRACTOR
CF2	(E) 12"	12"	CONT.	5/8"	5/8"	(E) 8" STEM WALL FOOTING W/ 1/2" VERT. BARS AT 24" O/C
CF3	(E) 14"	12"	CONT.	5/8"	5/8"	

WESTGROUP DESIGNS
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Coast Engineering Designs Inc.
Civil and Structural Engineers
10231 SLATER AVE SUITE 201
FOUNTAIN VALLEY, CA 92708
(714) 593-0337
J.N. 29-2020

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/26/2021
DSA PLAN CHECK	05/21/2021
DSA PLAN CHECK	08/27/2021
DSA PLAN CHECK	11/05/2021

REVISIONS:

DEPARTMENT OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

P.T.N. _____-_____

REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
TARIQ NO. RCE 3970
EXP12-31-21
STATE OF CALIFORNIA

11/2/2021

SHEET TITLE:
CAFETERIA PARTIAL ROOF FRAMING, FOUNDATION PLANS, WALL FRAMING

SHEET NUMBER:
S-2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS SPECIFICATIONS AND THE CALIFORNIA BUILDING CODE, 2019 EDITION.
2. ALL DETAILS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
3. CONSTRUCTION NOT SPECIFICALLY SHOWN SHALL BE ACCOMPLISHED PER MINIMUM REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.
4. THIS OFFICE WILL FURNISH ANY CLARIFICATION DETAIL AT THE REQUEST OF THE CONTRACTOR. CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER. IN CASE OF ANY CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT AND/OR ENGINEER.
5. CONTRACTOR SHALL COORDINATE WITH ALL TRADES ALL ITEMS THAT ARE TO BE INTEGRATED INTO THE STRUCTURAL SYSTEM. ORDER OF CONSTRUCTION TO BE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL PROVIDE ALL ITEMS NECESSARY FOR HIS CHOSEN PROCEDURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK. UNTIL ALL PERMANENT MEMBERS, INCLUDING WALLS, SLABS, FLOORS AND ROOF ARE IN PLACE, AND ALL CONNECTIONS ARE COMPLETED. STABILITY OF STRUCTURE AND ALL PARTS THEREOF SHALL BE CONTRACTOR'S RESPONSIBILITY. HE SHALL PROVIDE ALL THE NECESSARY BRACING TO PROVIDE STABILITY.
6. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
7. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. VIBRATION EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.
8. CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS TO ASSURE THEY COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS WILL NOT SATISFY THIS REQUIREMENT.
9. CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY CONDITION HE FINDS WHERE, IN HIS JUDGMENT, IT WOULD BE DESIRABLE TO MODIFY THE REQUIREMENTS TO PRODUCE THE BEST RESULTS.
10. ALL INSPECTIONS TO BE IN ACCORDANCE WITH C.B.C. SECTION 110 & DSA-103 FORM.
11. SPECIAL INSPECTIONS TO BE IN ACCORDANCE WITH C.B.C. SECTION 1701A & DSA-103 FORM.
12. OBSERVATION VISITS TO THE SITE BY ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION.
13. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR WALL AND SLAB OPENINGS, ARCHITECTURAL TREATMENT, AND DIMENSIONS NOT SHOWN. CONSULT MECHANICAL AND ELECTRICAL PLANS FOR SIZES AND LOCATIONS OF ALL OPENINGS FOR DUCTS, PIPES, ETC. NOT SHOWN.
14. ALL WORK PERFORMED ACCORDING TO THIS DRAWING SHALL BE DONE AS TO COMPLY WITH ALL THE CONDITIONS, RESTRICTIONS, CONSTRUCTION METHODS, AND SAFETY REQUIREMENTS IMPOSED BY CAL-OSHA, AND THE CITY AND/OR COUNTY.
15. ALL UNDERGROUND ELECTRICAL CONDUIT AND OTHER UTILITIES SHALL BE INSTALLED, VERIFIED, AND APPROVED PRIOR TO PLACING CONCRETE.
16. SHOP DRAWINGS:
    a. REVIEW SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT OR ENGINEER.
    b. ATTAIN SHOP DRAWING APPROVAL BEFORE BEGINNING FABRICATION.
    c. SHOP DRAWINGS ARE MEANT TO DEMONSTRATE UNDERSTANDING OF THE DESIGN CONCEPT AND STRUCTURAL CONFIGURATION. INFORMATION RELAYED ON SHOP DRAWINGS DOES NOT CONSTITUTE AUTHORIZATION FOR CHANGE ORDERS.

FOUNDATION

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES.
2. NO PIPES AND CONDUITS SHALL EXTEND UNDER ISOLATED COLUMN FOOTING OR UNDER CONTINUOUS WALL FOOTING GRADE BEAMS ETC., UNLESS SPECIFICALLY DETAILED.
3. ALL FOOTINGS TO REST ON UNDISTURBED FIRM SOIL OR COMPACTED FILL APPROVED BY THE PROJECT GEO-TECHNICAL ENGINEER.
4. REMOVE ALL ORGANIC MATERIAL BELOW FOOTING LOCATIONS AND SLABS. TOP OF CONCRETE SLAB SHALL BE A MINIMUM OF 8" ABOVE FINISH GRADE AT PERIMETER OF BUILDING.
5. DESIGN OF FOOTINGS IS BASED ON 1500 PSF ALLOWABLE SOIL BEARING PER C.B.C. 2019, TABLE 1806A.2 PRESUMPTIVE LOAD BEARING VALUES.

CONCRETE

1. ALL CEMENT SHALL CONFIRM TO A.S.T.M. C-150, TYPE V.
2. ALL AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. SHRINKAGE SHALL BE PER A.S.T.M. C-157 WITH THE AVERAGE DRYING SHRINKAGE AT 28 DAYS NOT TO EXCEED 0.05%.
3. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

CONTINUOUS FOOTINGS AND PADS........f'c=4,500 psi*
SLAB ON GRADE........f'c=4,500 psi*

* ALL CONCRETE SHALL REACH MINIMUM COMPREHENSIVE STRENGTH AT 28 DAYS AND SHALL HAVE A MINIMUM CEMENT CONTENT OF 5 SACKS PER CUBIC YARD AND MAX. SLUMP = 4". MAXIMUM SIZE AGGREGATE = 1". MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIAL TO BE IN ACCORDANCE WITH 2016 C.B.C, SECTIONS 1903A, 1904A, 1905A, 1906A, AND ACI CODE 318-19.

4. USE NO CALCIUM CHLORIDE. CONCRETE SHALL BE PLACED IN LAYERS NOT OVER 12 INCHES DEEP.
5. USE MECHANICAL VIBRATORS TO THOROUGHLY COMPACT ALL CONCRETE.
6. VIBRATORS SHALL MAINTAIN A SPEED OF NOT LESS THAN 7000 IMPULSES PER MINUTE WHEN SUBMERGED IN THE CONCRETE. PERFORM INTERNAL VIBRATION BY DIRECT ACTION IN THE CONCRETE AND NOT AGAINST FORMS OR REINFORCEMENT. VIBRATE EACH POUR UNTIL THE WATER SHOWS INDICATIONS OF RISING, BUT NOT UNTIL THE WATER HAS RISEN. VIBRATORS SHALL BE APPLIED AT UNIFORMLY SPACED POINTS NOT APART THAN THE VISIBLE EFFECTIVENESS OF THE MACHINE.
7. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 3/4" CHAMFER.
8. SUBMIT FOR REVIEW MIX DESIGN CERTIFIED (SIGNED AND STAMPED) BY A CURRANT CALIFORNIA LICENSED CIVIL ENGINEER

REINFORCING BARS

1. ALL REINFORCING SHALL BE A.S.T.M. A-615-40 FOR #4 BARS AND SMALLER.
2. ALL REINFORCING SHALL BE A.S.T.M. A-615-60 FOR #5 BARS AND LARGER.
3. ALL BARS SHALL BE DEFORMED AS PER A.S.T.M. A-305. ALL BENDS SHALL BE MADE COLD.
4. ALL BARS SHALL BE CLEAN OF LOOSE FLAKY RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
5. WELDED WIRE FABRIC TO BE A.S.T.M. A-185 LAP 1-1/2 SPACES, 9" MIN.
6. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE, OR GROUTING MASONRY.
7. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE BARS.
8. COVER SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):
    A. POURED AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH.........3"
    B. POURED AGAINST FORM BELOW GRADE.........2"
    C. EXPOSED TO WEATHER #5 AND SMALLER ....1 ½" LARGER BARS 2"
    D. INTERIOR SLABS ON GRADES (FROM TOP OF SLAB).........1"
9. ALL HORIZONTAL REINFORCEMENT SHALL HAVE MATCHING DOWELS AT CORNERS OF THE WALLS.
10. ALL VERTICAL REINFORCEMENT SHALL HAVE MATCHING DOWELS TO FOOTING. REINFORCING STEEL SHALL EXTEND MINIMUM OF 24" AROUND ALL CORNERS AND INTO INTERSECTIONS.
11. ALL REINFORCEMENT SHALL BE SUPPORTED BY CHAIRS OR CONCRETE.
12. ALL REINFORCING STEEL WELDING REQUIRES CONTINUOUS INSPECTION BY A AWC-CWI QUALIFIED WELDING INSPECTOR.
13. WELDING OF REINFORCING STEEL SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES, AND IN ACCORDANCE WITH AWSD12.1-75, REINFORCING STEEL WELDING CODE.
14. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ENGINEER.

NAILING SCHEDULE

TO SUPPORTS	3- 8d TOENAILED
AT LAPS (12" MIN.)	4- 16d FACE NAILED
BRIDGING TO JOIST	2- 8d TOENAILED EACH END
JOISTS TO SILL OR GIRDER	3- 8d TOENAILED
STUDS:	
TOENAILED TO PLATE	4- 8d
END NAILED TO PLATE	2-16d
DOUBLE STUDS	16d @ 12" O.C., STAGGERED
PLATES:	
UPPER TO LOWER	16d @ 12" O.C., STAGGERED
AT SPLICES	8-16d FACE NAILED (U.N.O.) WITH MIN. 48" LAP (U.N.O.)
PLATE LAP AT CORNERS	2-16d FACE NAILED
SOLE PLATE TO JOIST OR BLOCKING	16d FACE NAILED AT 8" O.C.
1" BRACE TO STUD AND PLATES	2- 8d FACE NAILED

NAIL ALL MULTI JOIST BEAMS TOGETHER WITH 16d SPIKES AT 12" O.C. STAGGERED.

STRUCTURAL HARDWARE & ACCESORIES

1. ANCHOR BOLTS SHALL BE MANUFACTURED OF A.S.T.M. A 307 STEEL AND HOT DIP GALVANIZED.
2. SHOT PINS SHALL BE I.C.C. APPROVED. EXPANSION BOLTS (WEDGE ANCHORS) SHALL BE ICC APPROVED AND ACCEPTED BY THE ENFORCING AGENCY.
3. FABRICATED ACCESSORIES SHALL BE IN COMPLIANCE WITH THE SECTION STRUCTURAL STEEL
4. THE INSTALLATION OF DRILLED IN DOWELS AND BOLTS, OTHER THAN EXPANSION ANCHORS, SHALL BE INSTALLED AND INSPECTED PER CODE.
5. ALL SHOT PINS TO BE HILTI 0.145" DIA. LOW VELOCITY FASTENERS (1 1/8" MIN. EMBEDMENT). FOLLOW ICC-ESR 1663.
6. METAL CONNECTORS FOR WOOD CONSTRUCTION SHALL BE SIMPSON "STRONG-TIE PRODUCTS, INTACT PRODUCTS OR OTHER LISTED MAKE, APPROVED BUILDING OFFICIAL, UNLESS NOTED OTHERWISE. PRODUCT CALL OUT ON PLANS REFERS TO SIMPSON "STRONG-TIE" MODEL NUMBERS AND KC METALS REFERENCE NUMBERS. APPROVED EQUALS MAY ONLY BE USED WITH PRIOR APPROVAL FROM THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER. CONTACT SIMPSON "STRONG-TIE" AND INTACT (KC METALS EXCLUSIVE DISTRIBUTOR) FOR TECHNICAL INFORMATION REGARDING THE SPECIFIED PRODUCTS AND AVAILABILITY.

"SIMPSON "STRONG-TIE" — "INTACT, LLC"
WWW.STRONGTIE.COM — (KC METALS EXCLUSIVE DISTRIBUTOR)
(800) 999-5099 — (888) 397-9770

7. ALL HARDWARE AND ACCESSORIES TO BE OF HOT DIP GALVANIZED.

SAWN LUMBER

WEST COAST DOUGLAS FIR LARCH 19% MAXIMUM MOISTURE CONTENT.
JOISTS........NO. 2 (FB=900 PSI)
JOISTS........NO. 1 (FB=1000 PSI)
BEAMS AND HEADERS........NO. 2 (4" WIDTH FB=900 PSI)
NO. 1 (6" WIDTH AND GREATER FB=1350 PSI)
STUDS AND PLATES (2X4)........STUD GRADE OR BETTER (FB=700 PSI)
STUDS AND PLATES (2X6)........STUD OR BETTER (FB= 700PSI)
POSTS (4X4 AND LARGER)......NO. 1 (FB=1000 PSI)
POSTS (6X6 AND LARGER)......NO. 1 (FB=1200 PSI)

SILL PLATES ON CONCRETE AND MASONRY SHALL BE DOUGLAS FIR (GROUP II LUMBER) PRESSURE TREATED WITH AN APPROVED PRESERVATIVE OR SHALL BE DURABLE WOOD (FOUNDATION GRADE CALIF. REDWOOD OR FOUNDATION LUMBER WESTERN RED CEDAR).

ALL PRESSURE TREATED LUMBER MUST BE TREATED WITH SODIUM BORATE (SBX) OR CHROMATED COPPER ARSENATE (CCA-C) TO AVOID CORROSION OF HARDWARE IN CONTACT WITH TREATED LUMBER. FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD, INCLUDING (BUT NOT LIMITED TO); NAILS, BOLTS, SCREWS, WASHERS, POWER DRIVEN EXPANSION BOLTS AND FABRICATED SHEET METAL TIMBER FRAMING CONNECTORS ETC. SHALL BE IN ACCORDANCE WITH SECTIONS 2304.9.5.1 THROUGH 2304.9.5.4. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153. THE CONNECTOR AND FASTENERS

ALL REQUIRED PRESSURE TREATED WOOD MUST HAVE THE PROPER IDENTIFICATION PER THE FOLLOWING;.

WOOD TO BE PRESERVATIVE TREATED SHALL BEAR THE QUALITY MARK OF AN INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRESERVATIVE-TREATED WOOD. INSPECTION AGENCIES FOR PRE-SERVATIVE TREATED WOOD SHALL BE LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM, OR EQUIVALENT. THE QUALITY MARK SHALL BE ON A STAMP OR LABEL AFFIXED TO THE PRESERVATIVE-TREATED WOOD, AND SHALL INCLUDE THE FOLLOWING INFORMATION:

I. IDENTIFICATION OF TREATING MANUFACTURER.
2. TYPE OF PRESERVATIVE USED.
3. MINIMUM PRESERVATIVE RETENTION (PCFI.
4. END USE FOR WHICH THE PRODUCT IS TREATED.
5. AWPA STANDARD TO WHICH THE PRODUCT WAS TREATED.
6. IDENTITY OF THE ACCREDITED INSPECTION AGENCY.

WOOD FRAMING NOTES

1. ALL WOOD FRAMING DETAIL NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE PER SECTION 2303.
2. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.9.1 OF THE CALIFORNIA BUILDING CODE.
3. BALLOON FRAMED WALLS SHALL COMPLY WITH TABLE 2308.9.1 OF THE CALIFORNIA BUILDING CODE. BALLOON FRAMED WALL (NON-BEARING) STUD HEIGHTS:
   2X4'S AT 16" O.C. MAX. 14'-0" HEIGHT
   2X6'S AT 16" O.C. MAX. 20'-0" HEIGHT
   NO MULTIPLES OF 2X4'S ARE ALLOWED TO SPAN MORE THAN 14'-0". ALL STUDS SHALL BE SINGLE LENGTH, UNSPLICED.
4. FRAME ALL CORNERS AND INTERSECTIONS WITH THREE OR MORE STUDS PLUS ALL REQUIRED BEARING FOR WALL FINISH. ALL BEAMS TO BE SUPPORTED WITH FULL BEARING UNLESS NOTED OTHERWISE.
5. ALL ISOLATED POSTS AND BEAMS TO HAVE SIMPSON PB'S AND PC'S MINIMUM, UNLESS NOTED OTHERWISE.
6. ALL WALLS ON WOOD FLOOR TO BE SUPPORTED WITH DOUBLE JOIST OR SOLID BLOCKING, UNLESS NOTED OTHERWISE.
7. ALL SIMPSON HD, HDA, AND PA HOLD DOWNS TO BE FASTENED TO 4X4 POST MINIMUM, UNLESS NOTED OTHERWISE.
8. PROVIDE CONTINUOUS SOLID BLOCKING AT MID HEIGHT OF ALL STUD WALLS OVER 8 FEET IN HEIGHT.
9. CROSS BRIDGE OR SOLID BLOCK JOISTS AND RAFTERS AT 8 FEET MAXIMUM INTERVALS.
10. SOLID BLOCK BETWEEN ALL JOISTS AT ENDS AND AT SUPPORTS. BLOCKING TIMBER SHALL BE 2x SAME SIZE AS JOISTS OR RAFTERS. TOENAIL BLOCKING TO SUPPORTS WITH 16d AT 6" O.C., UNLESS NOTED OTHERWISE.
11. PROVIDE DOUBLE JOISTS EACH SIDE OF OPENINGS, UNLESS DETAILED OTHERWISE.
12. BOLTS IN TIMBER TO HAVE STANDARD WASHERS U.N.O. BOLT HOLES TO BE 1/16" LARGER THAN BOLT DIAMETER. NO LARGER HOLES PERMITTED.
13. ALL METAL CONNECTOR AND HANGERS TO BE "SIMPSON STRONG TIE" (OR EQUAL APPROVED BY THE ENGINEER).
14. STUDS IN EXTERIOR WALLS OR INTERIOR BEARING PARTITIONS SHALL BE CUT OR NOTCHED NO MORE THAN 25% OF THEIR WIDTH. INTERIOR NON-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE PARTITION OWN WEIGHT MAY BE NOTCHED 40% OF THEIR WIDTH.
15. BORED HOLES IN ANY STUD SHALL BE LIMITED TO 40% OF THEIR WIDTH AND SHALL BE LOCATED AT LEAST 5/8-INCH FROM THE EDGE OF THE STUD.
16. TOP PLATES OF ALL STUD WALLS SHALL BE 2x AND SAME SIZE AS STUDS, LAP PLATES 4 FEET MINIMUM, AND PROVIDE 8-16d FACE NAILS EXCEPT NOTED OTHERWISE ON PLAN.
17. PROVIDE 1"X4" LET-IN BRACE OR EQUIVALENT AT EACH END AND EACH 25 LINEAR FEET OF WALLS. BRACE SHALL EXTEND TO PLATES.
18. ALL DOUBLE "I" JOISTS USED AS A BEAM TO HAVE FILLERS AT WEB AND NAIL THROUGH WITH TWO ROWS OF 10d's AT 6" O/C.

ABBREVIATION

A.F.F. ABOVE FINISH FLOOR	COL. COLUMN	G.T. GIRDER TRUSS	S.S. SELECT STRUCTURE
BM. BEAM	CONT. CONTINUOUS	HDR. HEADER	SHT'G. SHEATHING
BD. BOARD	CMU CONCRETE MASONRY UNIT	HGR. HANGER	TRIM. TRIMMER
BOT. BOTTOM		TRUSS JOIST MACMILLAN M=L	TYP. TYPICAL
C CAMBER	DBL. DOUBLE	1.9E MICROLLAM PARALLAM	U.N.O. UNLESS NOTED OTHERWISE
C/C CENTER TO CENTER	D.F. DOUGLAS FIR	O.C. ON CENTER	
CANT. CANTILEVER	DP. DROP	P.T. PRESSURE TREATED	
C/J CEILING JOIST	F/J FLOOR JOIST	PSL 2.0E, 2900Fb PSL	
C.J. CONTROL JOINT	FL. FLUSH	R/J ROOF JOISTS	
CLG. CEILING	G.L. GLUE LAM	R/R ROOF RAFTERS	

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR THE DESIGN, "FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," A.I.S.C., CURRENT EDITION.
   A: STEEL WIDE FLANGE SECTIONS TO CONFORM TO ASTM A572 OR A992, GRADE 50,
   B: PLATES, ANGLES, AND RODS TO CONFORM TO ASTM A36 (U.N.O.)
   C: TUBE SECTIONS TO CONFORM TO ASTM A-500, GRADE B.
   D: PIPES TO CONFORM TO ASTM A-500, GRADE B.
   E: ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM A307 (U.N.O)
   F: CONNECTION BOLTS 7/8" (UNO) SHALL CONFORM TO ASTM A325N (U.N.O.)
2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AT LICENSED SHOP AND APPROVED BY THE BUILDING DEPARTMENT. USE ONLY THE ELECTRIC SHIELDED ARC PROCESS WITH LOW HYDROGEN E70XX ELECTRODES, PER THE LATEST EDITION OF STRUCTURAL WELDING CODE-STEEL, ANSI/AWS D1.1-2006. ALL BACKUP BARS SHALL BE REMOVED AFTER WELDING. PREHEAT THE METALS TO BE WELDED. NO SLAG WELDING. CONTINUOUS INSPECTION BY A AWS-CWI QUALIFIED WELDING INSPECTOR IS REQUIRED FOR ALL FIELD WELDINGS.
3. PROVIDE STANDARD WASHERS UNDER ALL NUTS.
4. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, OR OTHER APPROVED WEATHER PROOFING METHOD.
5. WHERE FINISH IS ATTACHED TO STRUCTURAL STEEL PROVIDE 1/2" BOLT HOLES AT 24"O.C. FOR ATTACHMENT OF NAILERS, UNLESS NOTED OTHERWISE. NELSON STUDS 1/2" X 3" CPL--MAY BE USED TO REPLACE BOLTS.
6. PROVIDE SPECIAL DEPUTY INSPECTOR DURING INSTALLATION OF ALL A325 HIGH STRENGTH BOLTS.
7. ALL STRUCTURAL STEEL TO BE SHOP PRIME WITH "GRAY" RUSTOLEUM.
8. DO NOT PRIME OR PAINT CONCRETE EMBEDED PORTION OF STEEL SECTIONS.
9. USE NOTCH TOUGH FILLER METAL HAVING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT. LBS. AT -20 DEG. F FOR ALL WELDS IN THE BRACES AND MOMENT CONNECTIONS.
10. THE USE OF ROLLED STEEL SECTIONS AND / OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM- A36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY CITY BUILDING AND SAFETY PRIOR TO THEIR USE.

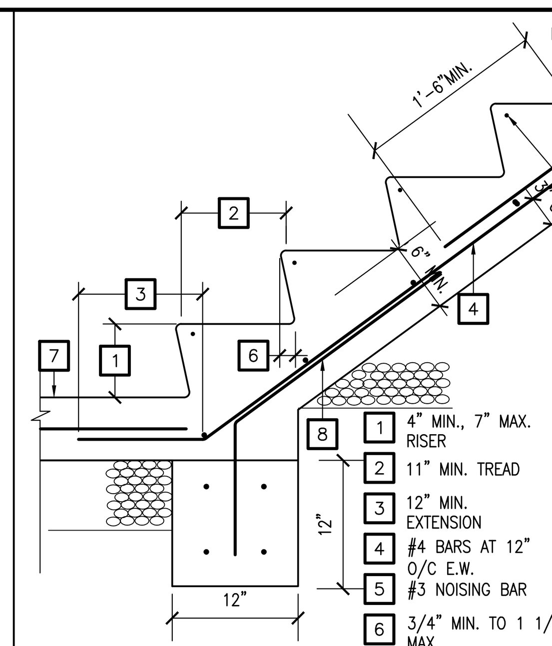
MATERIAL TESTING REQUIREMENTS

THE REINFORCING WIRE MESH, THE PLAIN AND DEFORMED REINFORCING STEEL BARS AND THE STRUCTURAL STEEL SHAPES DELIVERED TO THE JOB SITE FOR USE IN THE CONSTRUCTION OF THE STRUCTURE MUST BE ACCOMPANIED WITH MILL CERTIFICATES, PREPARED BY AN APPROVED TESTING AGENCY, WHICH DOCUMENT THE MATERIAL STRENGTHS AND CHEMICAL COMPOSITIONS SPECIFIED FOR THE PROJECT.

LOADING

1. LIVE LOADS:
   a. ROOF . . . . 20 PSF
2. WIND LOADS:
   a. BASIC WIND SPEED = 100 MPH
   b. IMPORTANCE FACTOR = 1
   c. WIND EXPOSURE = C
   d. INTERNAL PRESSURE COEFFICIENT GCpi = 0.18 (NOT APPLICABLE)
   e. COMPONENT AND CLADDING N/A
3. SEISMIC LOADS:
   a. IMPORTANCE FACTOR = 1.25 CAFETERIA BLDG.
   b. RISK CATEGORY = III
   c. MAPPED SPECTRAL RESPONSE ACCELERATION, S_{MS}=1.94, S_{M1}=1.25 SITE CLASS = D
   d. SPECTRAL RESPONSE COEFFICIENTS, S_{DS}=1.29, S_{D1}=0.84, S_1=0.6
   e. SEISMIC DESIGN FORCE = W_p AT ROOF LEVEL
   f. COMPONENT AMPLIFICATION FACTOR a_p = 2.5
   g. COMPONENT RESPONSE MODIFICATION FACTOR R_p = 6.0 ROOF TOP UNIT
   i. COMPONENT IMPORTANCE FACTOR I_p=1

NOTE: SEE PLAN # OF RISERS

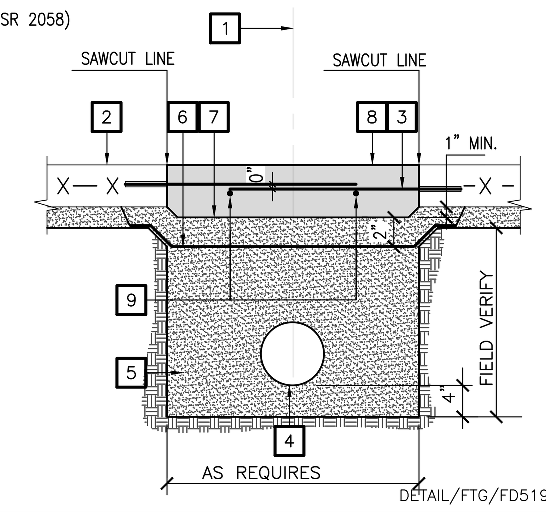


1. 4" MIN., 7" MAX. RISER
2. 11" MIN. TREAD
3. 12" MIN. EXTENSION
4. #4 BARS AT 12" O/C E.W.
5. #3 NOISING BAR
6. 3/4" MIN. TO 1 1/4" MAX.
7. CONCRETE LANDING/ SLAB
8. #4 DOWELS AT 12" O/C WITH 24" LAP

DETAIL\TYPICAL\T34

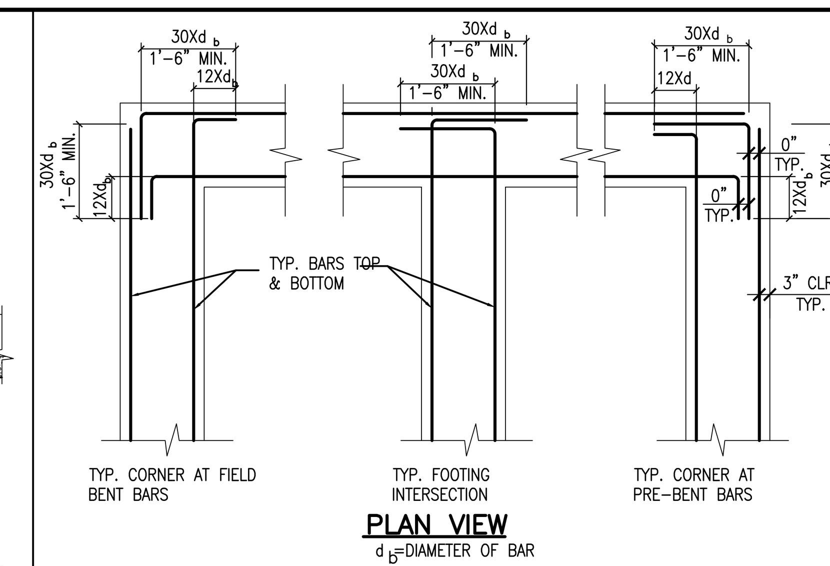
TYP. STAIR DETAIL — SCALE NONE — 11

1. CENTERLINE OF TRENCH
2. EXIST. SLAB & REINFORCING
3. (N)#4 DOWELS AT 18" O/C PER SIDE WITH 4" INTO EXIST. SLAB. WITH SET-EXP EPOXY (ICC-ESR 2058)
4. (N) UTLITY LINE
5. (N)CLEAN, MOIST AND TEMPERED SAND BACKFILL
6. 10 MIL. MOISTURE BARRIER
7. (N) CLEAN SAND
8. (N) CONCRETE SLAB
9. #3 CONT. BARS AT 12" O/C CENTERED ABOUT CENTER LINE OF TRENCH



DETAIL/FTG/FD519

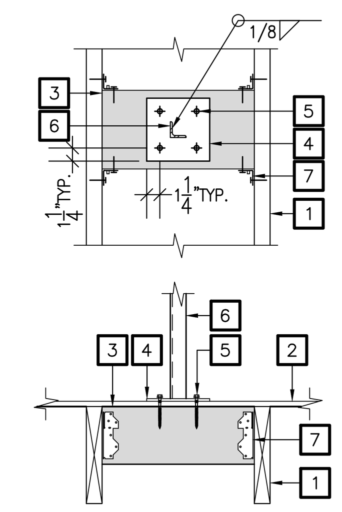
UTILITY TRENCH DETAIL — SCALE NONE — 6



DETAIL\FTG.\FD38

TYP. FOOTING REINF. DETAIL — SCALE NONE — 1

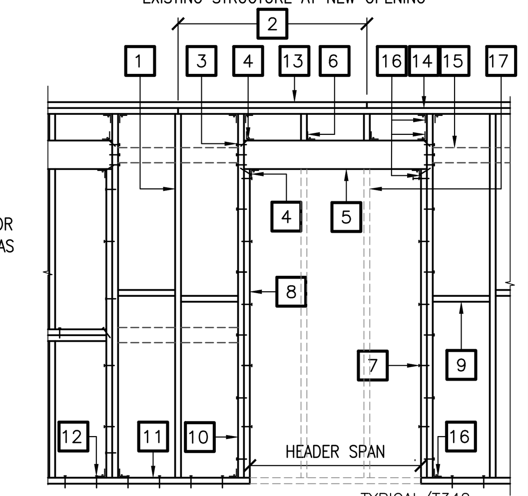
1. (E) 2X10 ROOF JOIST AT 16" O/C.
2. (E) ROOF SHT'G
3. (N) 6X8 FLAT BLOCKING W/ (4) A35 FRAMING ANCHORS AS SHOWN
4. (N) 6X6X1/4 BASE W/ (4) 5/16"ø HOLES
5. (N) 1/4"ø LAG W/ 2" MIN. PENETRATION INTO BLOCKING
6. (N) L 1 ½ X 1 ½ X ¼ ROOF MOUNTED DUCT SUPPORT PER MECHANICAL PLANS
7. (N) A35 FRAMING ANCHOR



TYPICAL\T333

ROOF MOUNTED DUCT SUPPORT DETAIL — SCALE NONE — 12

1. (E)FULL HEIGHT STUDS SPANNING BETWEEN ATTACHED HORIZONTAL ROOF, FLOOR OF CEILING.
2. (E)DOUBLE TOP PLATE SPLICE
3. (N)2-16d END NAILS FOR EVERY 3" OF (N)HDR DEPTH
4. (N)2-16d TOE NAILS
5. (N)HEADER PER PLAN
6. (N)A35 FRAMING ANCHOR AT ALL CUT STUD AT NEW OPENING
7. (N)16d AT 12" O.C.
8. (N)TRIMMER (2)2X'S FOR SAWN 4X'S AND 6X'S 10" AND DEEPER
9. (E) 2X BLKG. AT DRILLING LINE OR 8'-0" O.C. MAX. VERT. SPACING AS MAY OCCUR
10. (N)KING STUD
11. (E) PRESSURE TREATED SILL PLATE AT FOUNDATION.
12. (E) ANCHOR BOLTS W/ PLATE WASHERS AT SILL PLATE
13. (E)CONT. TOP PLATE
14. (E)CONT. LOWER PLATE 2X MIN. U.N.O.
15. (E)LINE OF BLK'G AS MAY OCCUR
16. (N)A35 FRAMING ANCHOR AS SHOWN WHEN OPENING SPAN IS GREATER THAN 6 FEET (TYP.)
17. (E)STUD TO BE CUT AFTER PROPER SHORING OF EXISTING STRUCTURE AT NEW OPENING



TYPICAL/T342

TYPICAL WALL FRAMING AT (N) OPENING — SCALE NONE — 7

BAR	D' (IN.)	135° HOOK A' or G'	135° HOOK H
#3	1 1/2	4 1/4	3
#4	2	4 1/2	3
#5	2 1/2	5 1/2	3 3/4
#6	4 1/2	8	4 1/2
#7	5 1/4	9	5 1/4
#8	6	101/2	6

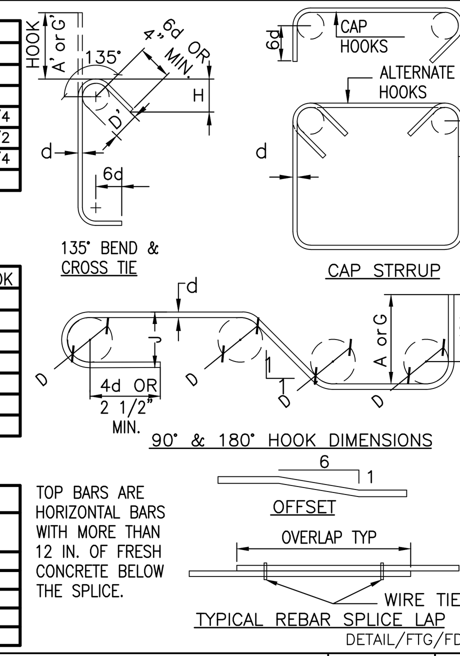
135° SEISMIC STIRRUP/TIE HOOK DIMENSIONS

BAR	D (IN.)	180° HOOK A or G	180° HOOK J	90° HOOK A or G
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16

90° & 180° HOOK DIMENSIONS

MIN. REQUIRED OVERLAP			
BAR SIZE	CONCRETE TOP	CONCRETE BOT.	MASONRY
#4	27"	21"	24"
#5	51"	39"	32"
#6	61"	47"	36"
#7	89"	68"	56"
#8	101"	78"	72"

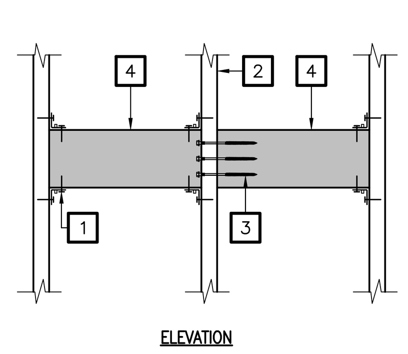
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 IN. OF FRESH CONCRETE BELOW THE SPLICE.



DETAIL/FTG/FD36

TYPICAL BAR BENDING DETAIL — SCALE NONE — 2

1. A34 FRAMING ANCHOR
2. 2X STUD WHERE OCCURS
3. SDS ¼ X 6 SCREWS AT 1 ½" SPACING
4. 4 X 6 MIN. BLK'GS WHERE OCCURS

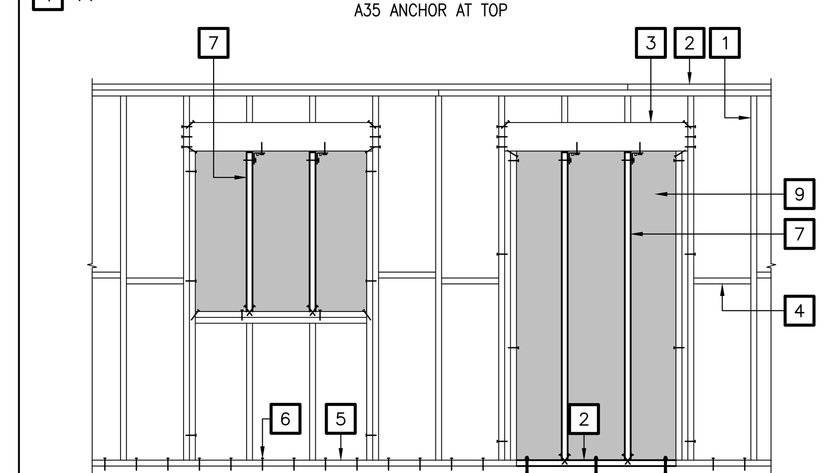


ELEVATION

TYPICAL/T308

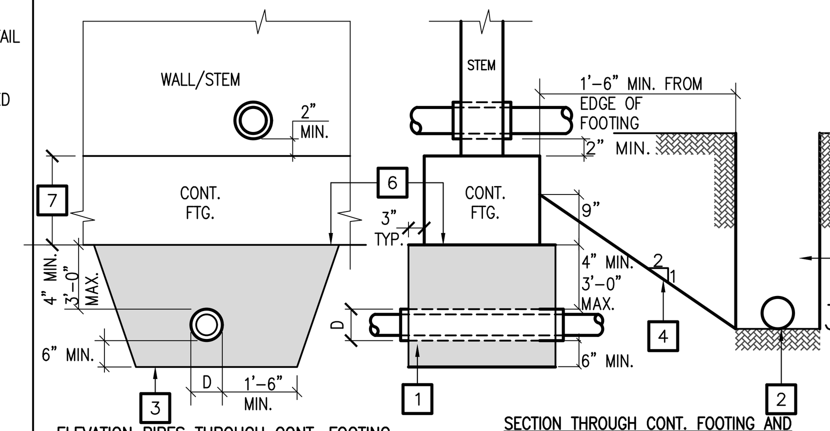
TYPICAL BACKING DETAIL — SCALE NONE — 13

1. (E) FULL HEIGHT STUD
2. (E) DOUBLE TOP PLATES
3. (E) HEADER
4. (E) BLOCKING
5. (E) SOLE OR SILL PLATE PER PLAN
6. (E) SOLE PLATE NAILING OR ANCHOR BOLTS
7. (N) 2X WALL WIDTH STUDS AT 16" O/C WITH (4) 8d TOENAILS AT BOTTOM AND A35 ANCHOR AT TOP
8. (N) 2 X WALL WIDTH P.T. SILL PLATE WITH SEE DETAIL 5/SNO FOR BOTTOM CONNECTION
9. (E) OPENING TO BE FILLED WITH NEW STUDS



TYPICAL/T296

TYPICAL WALL INFILL FRAMING — SCALE NONE — 8



ELEVATION PIPES THROUGH CONT. FOOTING

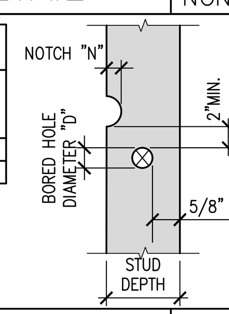
SECTION THROUGH CONT. FOOTING AND PIPE TRENCH

1. PROVIDE METAL SLEEVES WITH I.D. 2" GREATER THAN THE O.D. OF THE PIPE
2. NO EXCAVATION BELOW THIS LINE
3. PLACE CONCRETE FILL AROUND SLEEVES BEFORE POURING CONTINUOUS FOOTING.
4. LOCATE PIPE TRENCH SO THAT FOOTING WILL NOT BE UNDERMINED
5. BACKFILL AS PER SPECIFICATIONS
6. BOTTOM OF FOOTING POUR
7. NO PIPE SHALL PASS THROUGH ANY FOOTING

FTG\FD427

TYPICAL PIPE TRENCH/FOOTING DETAIL — SCALE NONE

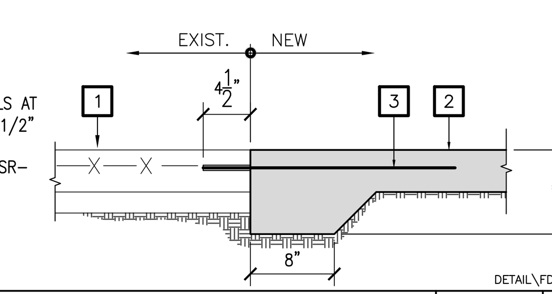
STUD SIZE	EXTERIOR OR INTERIOR BEARING OR SHEAR WALLS: MAX. BORED HOLE DIAMETER "D"	MAX. NOTCH DEPTH "N"	INTERIOR NON-BEARING WALLS: MAX. BORED HOLE DIAMETER "D"	MAX. NOTCH DEPTH "N"
2X4	1 3/8"	7/8"	2"	1 3/8"
2X6	2 1/8"	1 3/8"	3 1/4"	2 1/8"



DETAIL\TYPICAL\T6

HOLES & NOTCHES IN STUDS — SCALE NONE — 14

1. EXIST. SLAB
2. NEW SLAB
3. #4 X 24" LONG DOWELS AT 24" O.C. WITH MIN. 4 1/2" INTO EXIST. SLAB WITH SET-XP EPOXY (ICC-ESR-2508)

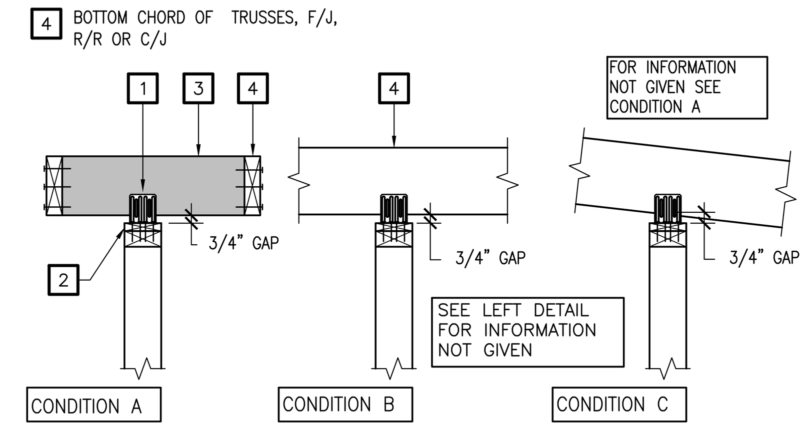


DETAIL\FD552

NEW AND EXISTING SLAB CONNECTION DETAIL — SCALE NONE — 15

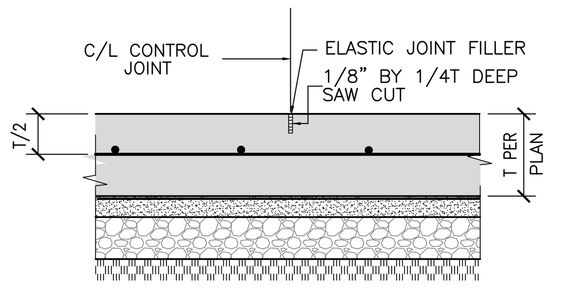
1. "DTC" CLIPS AT 24" O/C
2. 1X TOP PLATE
3. 2x4 AT 48" O.C. NOT REQ'D WHERE WALL IS BRACED W/ RETURN WALLS NOT EXCEEDING 6'-0" APART
4. BOTTOM CHORD OF TRUSSES, F/J, R/R OR C/J

NOTE:
APPLY GYPSUM SHEATHING ON WALLS AFTER ALL ROOFING/FLOOR MATERIAL HAS BEEN INSTALLED.



DETAIL\CEILING\C39

NON BEARING INT. WALL DETAIL — SCALE NONE — 9



CONTROL / WEAKENED JOINT DETAIL

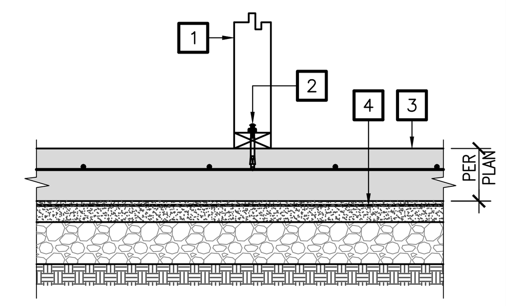
NOTES:

CONTROL JOINTS SHALL DIVIDE SLAB ON GRADE INTO SECTIONS WITH AREAS NOT EXCEEDING 144 SQ. FT. (12'X12') WITHOUT REENTRANT CORNERS AND WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1-1/2 : 1 UNLESS NOTED OTHERWISE PER SOILS REPORT

DETAIL\FOOTING\F10

SLAB ON GRADE CONTROL/WEAKENED JOINT — SCALE NONE — 4

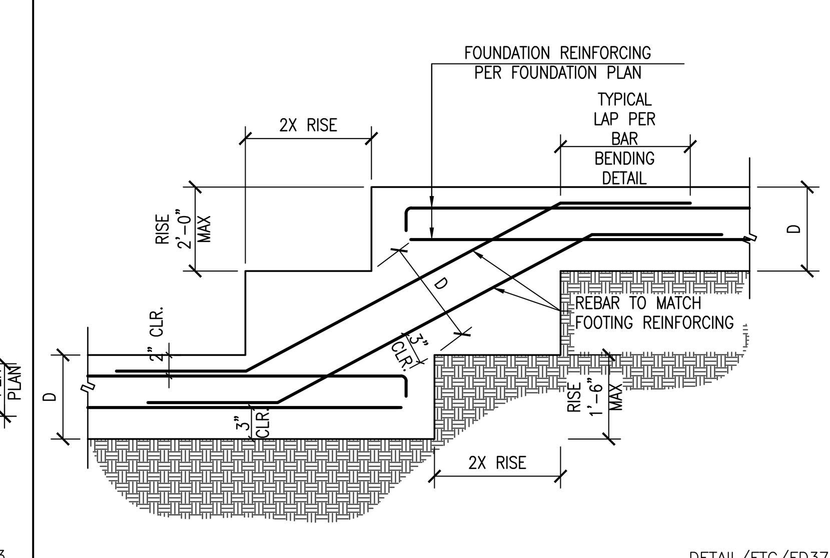
1. STUD WALL (NON-BEARING NON-SHEARWALL)
2. 2x PRESSURE TREATED SILL PLATE W/ HILTI 0.145"ø PIN (WITH MIN. PENETRATION OF 1 1/8" INTO SLAB) AT 32" O/C (U.N.O.) TO BE INSTALLED IN ACCORDANCE W/ ICC ESR-1663 ACTUAL SLAB THICKNESS TO BE 4" MIN. (CITY OF L.A. RR2582) OR AS ALTERNATE PROVIDE 3/8"ø RED HEAD WEDGE ANCHORS AT 48" O/C WITH 2" EMBEDMENT (ICC-ESR 2427)
3. SLAB & REINFORCING PER SOILS REPORT ALSO SEE FOUNDATION PLAN
4. SLAB UNDERLAYMENT WHERE OCCURS PER FOUNDATION PLAN



DETAIL/FTG/FD33

SUPPORT SECTION / DETAIL (overprinted title) — SCALE NONE — 10

D = MIN. FOOTING DEPTH PER FOUNDATION PLAN



DETAIL/FTG/FD37

TYPICAL STEPPED FOOTING — SCALE NONE — 5

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/26/2021
DSA PLAN CHECK	05/21/2021
DSA PLAN CHECK	08/27/2021
DSA PLAN CHECK	11/05/2021

REVISIONS:

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DIV. OF THE STATE ARCHITECT
APP #: ....03-121233........
AC........FLS........SS........
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REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER FARHAD REZAI NO. 3970 EXP 12-31-21 STRUCTURAL STATE OF CALIFORNIA
11/2/2021

SHEET TITLE:
STRUCTURAL NOTES AND TYPICAL DETAILS

SHEET NUMBER:
SD1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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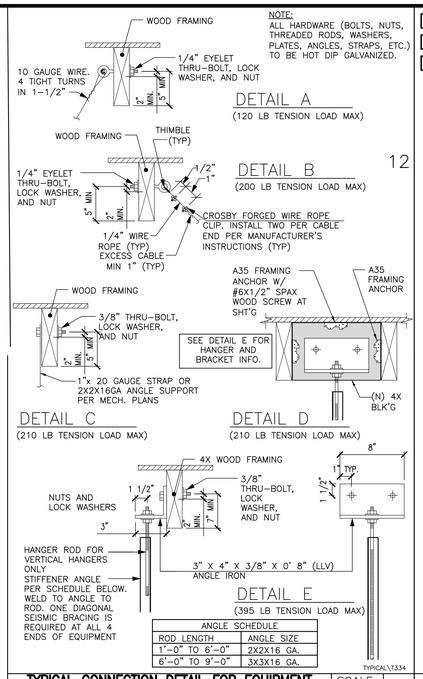
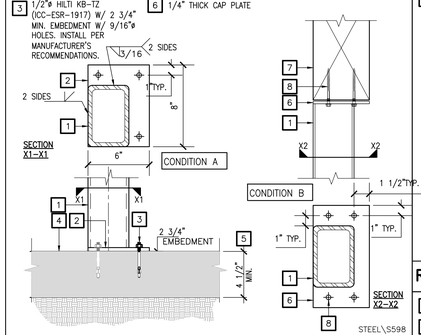


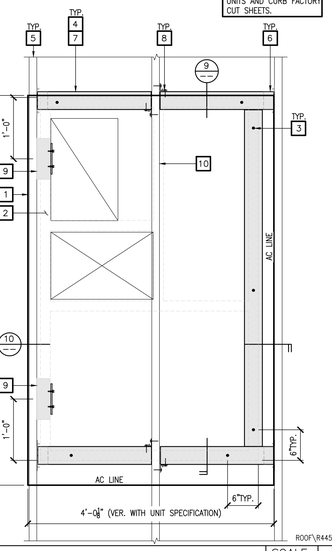
NOTE:
ALL HARDWARE (BOLTS, NUTS, THREADED RODS, WASHERS, PLATES, ANGLES, STRAPS, ETC.) TO BE HOT DIP GALVANIZED.

12

TYPICAL CONNECTION DETAIL FOR EQUIPMENT HANGER FROM ROOF MEMBERS

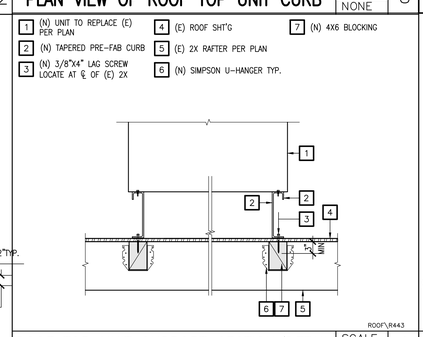
SCALE NONE | 12





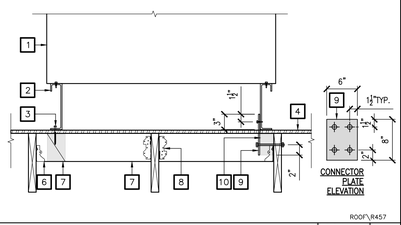
PLAN VIEW OF ROOF TOP UNIT CURB

SCALE NONE | 8



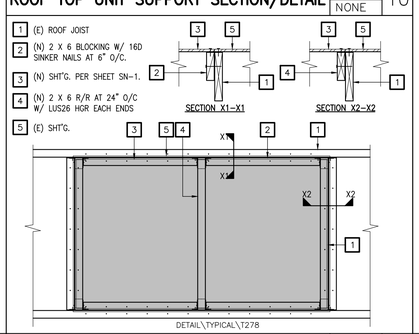
ROOF TOP UNIT SUPPORT SECTION/DETAIL

SCALE NONE | 9



ROOF TOP UNIT SUPPORT SECTION/DETAIL

SCALE NONE | 10



SHEARWALL SCHEDULE NOTES

1. ALL SHEAR WALL PLYWOOD EDGES AND JOINTS MUST BE BACKED BY BLOCKING OR PRIMARY FRAMING. PLYWOOD SHEETS MAY BE INSTALLED EITHER WITH FACE GRAIN PARALLEL OR PERPENDICULAR TO STUDS.
2. A MINIMUM 3"X3"X0.229"(3GA.) THICK PLATE WASHER IS REQUIRED UNDER NUT AT EA. FOUNDATION SILL BOLT, 4 INCH STUD WALLS AND 3"X4 1/2"X0.229"(3 GA.) THICK PLATE WASHER AT 6 INCH STUD WALLS. (ALTERNATE SIMPSON BPS5/8-3 AND BPS5/8-6 BEARING PLATES). THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.
3. USE ONLY COMMON FULL HEADED NAILS. (NO CLIP NAIL HEADS)
4. NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM THE PANEL EDGES AND NOT LESS THAN 1/2" FROM THE EDGE OF CONNECTING MEMBER.
5. PROVIDE 3" NOMINAL OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NAILS STAGGERED IN TWO LINES ALONG PANEL EDGES FOR SHEAR WALL TYPES 11, 12, & 13. ALSO, STAGGER NAILS AT SILL AND TOP PLATE.
6. PANEL SHEATHINGS SHALL BE BUTTED FLUSH WITH ADJOINING PANELS.
7. PANEL SHEATHINGS TO BE APPLIED DIRECTLY TO STUDS AND BLOCK ALL EDGES.
8. PLYWOOD SHALL BE MANUFACTURED USING EXTERIOR GLUE.
9. USE 4 FEET BY 8 FEET MINIMUM SHEETS WHERE POSSIBLE, AND STAGGER ADJACENT HORIZONTAL JOINTS IN ALL CASES.
10. MINIMUM DIMENSION OF ANY SHEET SHALL BE 24 INCHES.
11. WHERE SHEATHING IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3- INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
12. HOLE SIZE FOR ALL ANCHOR BOLTS IN SILL PLATES SHALL BE 1/16 OF AN INCH LARGER THAN THE DIAMETER OF THE ANCHOR BOLT. THE SPACED AROUND THE ANCHOR BOLT, IN OVERSIZED SILL PLATE HOLE, TO BE FILLED WITH AN APPROVED QUICK-SETTING, SHRINKAGE RESISTANT DRY PACKING PRODUCT.
13. PROVIDE SIMPSON "BP" BEARING PLATE AT HOLD-DOWN CONNECTOR BOLTS, BETWEEN BOLT HEADS OR NUTS AND WOOD PER TABLE BELOW.
14. BOLT HOLES SHALL BE 1/32 TO 1/16 OF AN INCH (MAXIMUM) LARGER THAN THE BOLTS DIAMETER AT THE CONNECTION OF THE HOLD-DOWN TO THE POST. INSPECTOR TO VERIFY.
15. HOLD-DOWN CONNECTORS SHALL BE TORQUED AS REQUIRED BY THE MANUFACTURER, PRIOR TO COVERING OF THE WALL FRAMING. (FINGER TIGHT AND 1/2 WRENCH TURN)
16. SHEATHING NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. ENTIRE PLYWOOD SHEATHING SHALL BE REPLACED WHEN NAIL OR NAILS ARE OVER DRIVEN.
17. FASTENERS AND CONNECTORS (NAILS, ANCHOR BOLTS, ETC.) IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT, AND TREATED WOOD SHALL BE OF HOT DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER 2304.10.5.1 CBC, R317.3 CRC).

SHEARWALL SCHEDULE (APA RATED SHEATHING PS1-95 AND/OR PS2

MARK	PERIODIC SPECIAL INSPECTION	PLYWOOD THICKNESS	PERIMETER NAILING (COMMON NAILS ONLY) 3	FIELD NAILING (COMMON NAILS ONLY)	MIN. STUD AND BLK'G SIZE AT ADJOINING PANEL EDGES U.N.O.	FOUND. SILL PLATE SIZE (D.F.)	FOUNDATION SILL PLATE BOLTING (U.N.O.)	WALL BOT. OR SINGLE SOLE PLATE CONNECTION	WALL TOP D.F. NO. BETT
12	NO	15/32", STRUCTURAL I APA RATED, 3 PLY, 24/0 P.I. (280#/')	8d AT 6" O.C.	8d AT 12" O.C.	2X	2x P.T.	5/8" DIA. X 12" LONG AT 48" O.C.	2X PLATE W/16d COMMON NAILS AT 6" O/C SPACING.	2X MIN.
12 4,5	YES	15/32" STRUCTURAL I APA RATED, 3 PLY, 24/0 P.I.(430#/')	8d AT 4" O.C.	8d AT 12" O.C.	3X 5	3x P.T.	5/8" DIA. X 12" LONG AT 32" O.C.	3X PLATE W/ SDS¼X6" SIMPSON SCREWS AT 8" O/C	3X MIN.
12 4,5	YES	ONE SIDE 15/32" STRUCTURAL I APA RATED, 5 PLY, 32/16 P.I. (550#/')	8d AT 3" O.C.	8d AT 12" O.C.	3X 5	3x P.T.	5/8" DIA. X 12" LONG AT 32" O.C.	3X PLATE W/ SDS¼X6" SIMPSON SCREWS AT 6" O/C	3X MIN.
12 4,5	YES	ONE SIDE 15/32" STRUCTURAL I 5 PLY APA RATED, 32/16 P.I. (730#/')	8d AT 2" O.C.	8d AT 12" O.C.	3X 5	3x P.T.	5/8" DIA. X 12" LONG AT 24" O.C.	3X PLATE W/SDS¼X6" SIMPSON SCREWS AT 4" O/C	3X MIN.

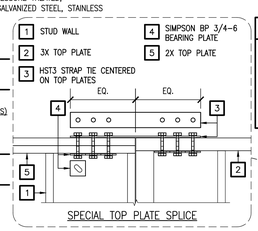
COMMON NAILS

SIZE OF NAIL	STANDARD LENGTH (INCHES)	NAIL DIAMETER (INCHES)	MIN. PENETRATION DEPTH INTO MAIN MEMBER (INCHES)
8d	2.5	0.131	1.5
10d	3	0.148	1 5/8
16d	3.5	0.162	2
20d	4	0.192	2.5

WASHERS

WASHERS SHALL BE USED UNDER HEADS & NUTS OF ALL BOLTS BEARING ON WOOD.
WASHERS LISTED BELOW SHALL BE USED IN THE FOLLOWING PLACES:
1. WOOD LEDGERS TO CONCRETE OR MASONRY WALLS.
2. SOLE PLATES TO FOUNDATION.
3. AGAINST 2" MEMBER WHEN SUCH 2" MEMBER IS BOLTED AGAINST LARGER MEMBER.

BOLT DIAMETER	STEEL PLATE SQUARE WASHERS	MAL. IRON ROUND WASHER
5/8"	3" X 3" X 1/4"	3" X 5/16"
3/4"	3" X 3" X 1/4"	3" X 7/16"
7/8"	3 1/2" X 3 1/2" X 5/16"	3 1/2" X 7/16"
1"	4" X 4" X 3/8"	4" X 1/2"

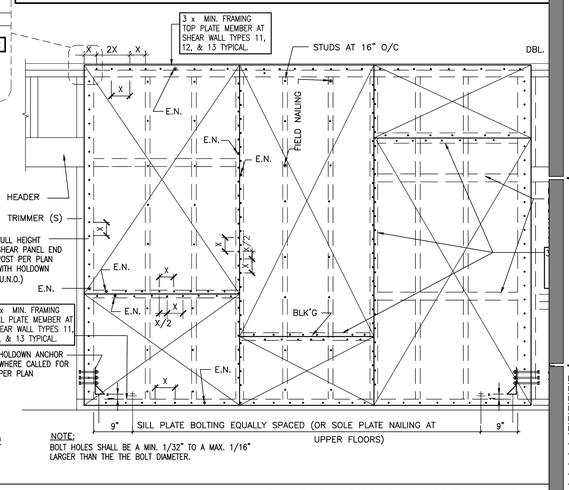


STATEMENT OF SPECIAL INSPECTION

SECTION 1707 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
THE FOLLOWING ARE APPLICABLE TO SPECIFIED SEISMIC FORCE-RESISTING SYSTEMS, DESIGNATED SEISMIC SYSTEMS,

STRUCTURAL WOOD SYSTEMS, SECTION 1707.3. THE FOLLOWING DESCRIBES THE NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONEN
SPECIAL INSPECTION REFER TO "SHEAR WALL SCHEDULE" ABOVE

SPECIAL INSPECTION BY A SPECIAL INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR L



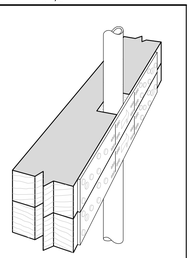
TYP. PLYWOOD SHEAR WALL DETAILS

(STAGGER SHEAR PANELS AS SHOWN WHEN HEIGHT OF WALL EXCEEDS SHEAR PANEL SHEET LENGTH)

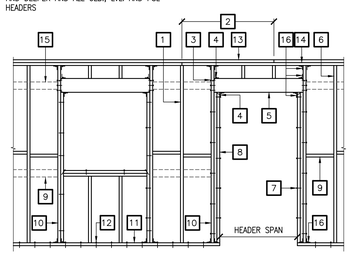
1 STUD WALL
2 DBL. TOP PLATES
3 LAP TOP PLATES MIN. OF 48"
4 PROVIDE (2) ROWS OF (4)16d COMMON NAILS AT 8" O.C. BOTH SIDES AT LAP AND STAGGERED, 8 TOTAL NAILS EACH SIDE
5 CROSSING TOP PLATE AT CHANNEL WALL
6 16d AT 16" O/C TYPICAL ALL LOCATIONS PAST SPLICE
7 C/L WALL/TOP PLATES
8 TOP PLATES SPLICE
SECTION X-X
(MAX. ALLOWABLE TENSION = 144X(1.5/1.92)X8X1.33=1197#)
DETAIL\DR1

RPS STRAP TIES AT PIPE IN WALL

SCALE NONE | 6



1 FULL HEIGHT 2X STUDS SPANNING BETWEEN ATTACHED HORIZONTAL ROOF, FLOOR OR CEILING. USE 2X4 STUDS AT 16" O.C. WITH A MAX. HEIGHT OF 10'-0", USE 2X6 STUDS AT 16" O.C. WITH A MAX. HEIGHT OF 15'-0", 2X6 STUDS AT 12" O.C. WITH A MAX. HEIGHT OF 20'-0".
2 DOUBLE TOP PLATE SPLICE PER TYP. TOP PLATE SPLICE DETAIL
3 2-16d END NAILS FOR EVERY 3" OF HDR DEPTH
4 2-16d TOE NAILS
5 HEADER, SEE SCHEDULE U.N.O. PER PLAN
6 2X STUDS MIN. U.N.O. ON PLAN. USE 3X MIN. AT SPECIAL SHEAR WALLS WHERE SHEATHING ARE SPLICED
7 16d AT 12" O.C.
8 TRIMMER PER SCHEDULE U.N.O. ON PLAN USE (2)2X'S FOR SAWN 4X'S AND 6X'S 10" AND DEEPER AND ALL GLB., LVL. AND PSL HEADERS
9 2X BLKG. AT DRILLING LINE OR 8'-0" O.C. MAX. VERT. SPACING.
10 KING STUD PER SCHED. U.N.O. ON PLAN
11 2X SOLE PLATE OVER WOOD FLOOR OR 2X PRESSURE TREATED SILL PLATE AT FOUNDATION. SEE SHEAR WALL SCHEDULE ON SHEET SN-1 AT SHEAR WALLS.
12 16d AT SOLE PLATE NAILING AT 8" O.C. U.N.O ON SEARWALL SCHED. ANCHOR BOLTS W/ PLATE WASHERS AT SILL PLATE PER FOUNDATION PLAN AND SHEAR WALL SCHEDULE ON SHEET SN-1
13 CONT. TOP PLATE 2X MIN. U.N.O. ON CONT. TOP PLATE 3X MIN. AT SPECIAL SHEAR WALL LINES PER PLAN.
14 CONT. LOWER PLATE 2X MIN. U.N.O.
15 LINE OF BLK'GS W/ COILED STRAP AT SPECIAL SHEAR WALLS WHERE OCCURS PER PLAN.
16 A35 FRAMING ANCHOR AS SHOWN WHEN OPENING SPAN IS GREATER THAN 6 FEET (TYP.)



HEADER SIZE (UNLESS NOTED OTHERWISE ON PLAN)

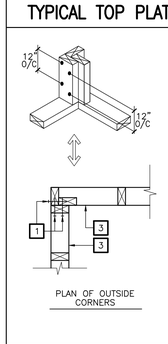
HEADER SPAN	TRIMMER	KING STUD	NON BEARING	SUPPORTING ROOF & CEILING (1), (2)	SUPPORTING FLOOR & ROOF (1), (2)
4'-0"	(1) 2X	(1) 2X	(2) 2X4 ON EDGE	4X4	4X6
6'-0"	(1) 2X	(1) 2X	4X4	4X6	4X8
8'-0"	(2) 2X	(2) 2X	4X6	4X8	4X10
10'-0"	(2) 2X	(2) 2X	4X8	4X10	SEE PLANS

1. AT 2X6 STUD WALLS USE 6X HEADERS SAME DEPTH AS SPECIFIED IN SCHEDULE ABOVE.
2. USE DOUBLE 2X'S TRIMMERS FOR SAWN 4X'S AND 6X'S 10" AND DEEPER AND ALL GLB. LVL, AND PSL HEADERS.

TYPICAL/T173

TYPICAL WALL FRAMING

SCALE NONE | 7



TYPICAL WALL FRAMING

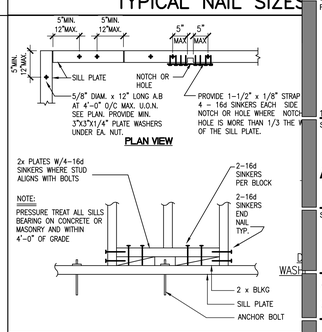
SCALE NONE | 5

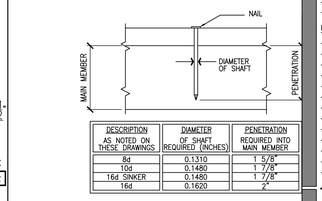
1 16d AT 12" O/C STAGGERED
2 16d AT 24" O/C STAGGERED
3 EXTERIOR WALL
4 INTERIOR WALL

TYPICAL TOP PLATE SPLICE DETAILS

SCALE NONE | 4

TYPICAL NAIL SIZES



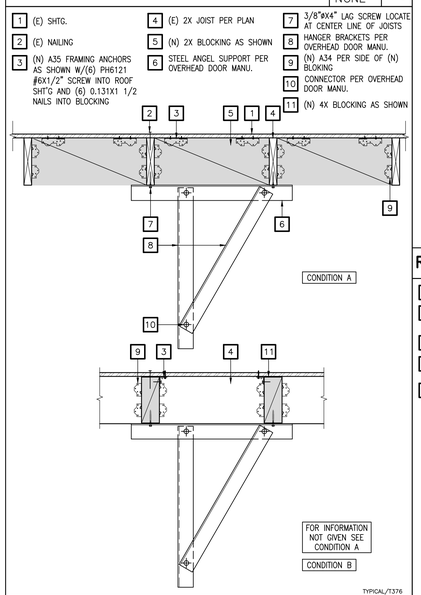


DESCRIPTION AS NOTED ON THESE DRAWINGS	DIAMETER OF SHAFT REQUIRED (INCHES)	PENETRATION REQUIRED INTO MAIN MEMBER
8d	0.1310	1 5/8"
10d	0.1480	1 7/8"
16d SINKER	0.1480	1 7/8"
16d	0.1620	2"

NOTES
1. USE NAILS WITH OVERALL LENGTHS THAT PROVIDE NOT LESS THAN THE REQUIRED PENETRATION NOTED IN THIS TABLE FOR EACH CONNECTION.
2. ONLY SMOOTH SHAFT COMMON NAILS MEETING THE REQUIREMENTS OF THIS TABLE ARE ACCEPTABLE FOR THIS PROJECT UNLESS OTHERWISE NOTED ON THESE STRUCTURAL DRAWINGS.
3. ALTERNATIVE NAILS MUST BE SUBMITTED FOR APPROVAL PRIOR TO START OF CONSTRUCTION.

ROLL UP DOOR JAMB DETAIL TOP AND BOTTOM

SCALE NONE | 13



OVERHEAD DOOR RAIL SUPPORT

SCALE NONE | 14

TYP. INFILL FRAMING DETAIL

SCALE NONE | 11

TYPICAL SILL PLATE AND ANCHOR BOLT DE

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Coast Engineering Designs Inc.
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FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

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DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/26/2021
DSA PLAN CHECK	05/21/2021
DSA PLAN CHECK	08/27/2021
DSA PLAN CHECK	11/05/2021

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER No. 39970 EXP12-31-21 CIVIL STATE OF CALIFORNIA

11/2/2021

SHEET TITLE:

SHEAR PANEL SCHEDULE AND STRUCTURAL DETAILS

SHEET NUMBER:

SD2

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20624	CEDI	CEDI	01/26/2021

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MASONRY

1. CONCRETE BLOCK SHALL BE OF SIZES SHOWN ON ARCHITECTURAL DRAWINGS AND/OR CALLED FOR IN SPECS. AND CONFORM TO A.S.T.M. C-90, GRADE N MEDIUM OR LIGHTWEIGHT UNITS WITH MAX. LINEAR SHRINKAGE OF 0.06%.

2. ALL VERTICAL REINFORCING IN MASONRY WALLS NOT RETAINING EARTH SHALL BE LOCATED IN THE CENTER OF THE WALL. RETAINING WALLS ARE TO BE AS SHOWN IN DETAILS.

3. SOLID GROUT ALL CELLS.

4. MORTAR SHALL BE TYPE M OR S UNLESS NOTED OTHERWISE.

5. MORTAR PROPORTION FOR TYPE M SHALL CONSIST OF (1) PART PORTLAND CEMENT, (1/4) PART LIME PUTTY TO NOT MORE THAN (3) PARTS SAND.

6. GROUT FILL FOR CELLS SHALL CONSIST OF (1) PART PORTLAND CEMENT TO NOT MORE THAN (3) PARTS SAND, TO (2) PARTS PEA GRAVEL. 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.

7. CEMENT SHALL BE PORTLAND CEMENT CONFORMING A.S.T.M. C150, TYPE I OR TYPE II, AND SHALL BE ENTIRELY OF ONE MANUFACTURE.

8. WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.

9. SAND FOR MORTAR SHALL CONFORM TO A.S.T.M. C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE. SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO A.S.T.M. C404, TABLE 1.

10. CONSTRUCTION JOINTS: WHEN GROUTING IS STOPPED FOR A PERIOD OF ONE HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1-1/2 INCHES MINIMUM BELOW THE UPPERMOST UNIT.

11. IN PLACING MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLIDLY FILL ALL HEAD JOINTS. LAY ALL MASONRY WITH COMMON OR RUNNING BOND. HOLD RAKING TO A MINIMUM.

12. MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN 4 FEET UNLESS PROPER HIGH-LIFT PROCEDURES ARE USED.

13. PLACE THE SAND, CEMENT AND WATER IN THE MIXER IN THAT ORDER FOR EACH BATCH OF MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST TWO MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS, BUT IN NO CASE LESS THAN TEN MINUTES. USE MIXERS TO SECURE A UNIFORM CAPACITY. BATCHES REQUIRING FRACTIONAL SACKS WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHTED FOR EACH SUCH BATCH. RE TEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RE TEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN ONE HOUR AFTER INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON THE BOARDS TO A SLUMP OF 2 3/4 INCHES PLUS OR MINUS 1/4 INCH USING A TRUNCATED CONE 4 INCHES BY 2 INCHES BY 6 INCHES HIGH.

14. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUSTAINING DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER. THE USE OF ADMIXTURES IN MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FIRE CLAY, DIRT, AND OTHER DELETERIOUS MATERIALS IS PROHIBITED.

15. ALL REINFORCING STEEL TO LAP WHERE SPLICED 40 DIAMETERS WITH A MINIMUM LAP OF 24 INCHES.

16. REINFORCING BARS SHALL BE SET STRAIGHT AND SECURED ACCURATELY IN POSITION.

17. IMPERFECT JOINTING AND WALL SURFACES EXHIBITING DEFECTIVE BLOCKS WILL BE REJECTED AND MUST BE REPLACED AT NO COST TO THE OWNER.

18. RETAINING WALLS ARE NOT DESIGNED FOR SURCHARGE OF HEAVY EQUIPMENT. EQUIPMENT SHOULD BE KEPT BACK FROM TOP OF WALL A MINIMUM DISTANCE EQUAL TO HEIGHT OF WALL ABOVE FOOTINGS.

19. BACKFILLING SHALL NOT BE STARTED FOR AT LEAST SEVEN DAYS AFTER THE FILLING OF THE CELLS WITH CONCRETE.

20. ALL FILL OR BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION AS DETERMINED BY A.S.T.M. METHOD D-1557.

21. UNLESS OTHER SPECIFIED, NO CONTINUOUS SPECIAL INSPECTION IS REQUIRED.

22. BED JOINTS TO BE FULL BEDDING IN MORTAR. HEAD JOINTS TO BE SOLID FILLED AT LEAST 1.5" FROM EACH FACE.

23. GROUT SHALL BE TAMPED OR VIBRATED TO INSURE FILLING OF ALL VOIDS.

CONSTRUCTION NOTES:

1. 2000 PSI MASONRY CONC. BLOCKS, 2500 PSI GROUT, 2500 PSI MORTAR (TYPE M), AND 60 KSI REINFORCING STEEL.

2. CONSTRUCTION SHALL COMPLY WITH SECTION 3 OF ACI 530.1.

   A. REINFORCEMENT SHALL BE SUPPORTED AND FASTENED TOGETHER TO PREVENT DISPLACEMENTS BEYOND THE TOLERANCES ALLOWED BY 3.4 OF ACI 530.1. PRIOR TO GROUTING.
   B. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5'.
   C. GROUT LIFTS SHALL NOT EXCEED 12.67 FT WHEN THE MASONRY HAS CURED FOR 4-HRS., THE GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 IN., AND NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR HEIGHT. OTHERWISE LIFTS SHALL NOT EXCEED 5 FT. (3.5 OF ACI 530.1,)
   D. ALL CELLS AND SPACES CONTAINING REINFORCEMENT SHALL BE FILLED WITH GROUT.)

3. QUALITY ASSURANCE MEASURES, SHALL COMPLY WITH SEC 2105 AND TABLES AS SHOWN HEREON AND SHALL BE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS REQUIRED BY 1705.

4. PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL NOT REDUCE THE REQUIRED STRENGTH.

5. JOINT REINFORCEMENT USED IN MASONRY EXPOSED TO EARTH OR WEATHER SHALL BE STAINLESS STEEL OR PROTECTED FROM CORROSION BY HOT DIPPED GALVANIZED COATING. (SEC. 1.1 3.4.2 ACI 530.)

6 DEPUTY INSPECTION IS REQUIRED FOR MASONRY CONSTRUCTION. SEE TABLE TO THE RIGHT FOR THE INSPECTION.

ACCEPTANCE RELATIVE TO STRENGTH REQUIREMENTS

COMPLIANCE WITH f'_m – COMPRESSIVE STRENGTH OF MASONRY SHALL BE CONSIDERED SATISFACTORY IF THE COMPRESSIVE STRENGTH OF EACH MASONRY WYTHE AND GROUTED COLLAR JOINT EQUALS OR EXCEEDS THE VALUE OF f'_m = 2000 PSI.
DETERMINATION OF COMPRESSIVE STRENGTH – COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF ACI 530.1/ASCE TMS 602.

CONSTRUCTION

GROUTING. MINIMUM SPACES THE MINIMUM DIMENSIONS OF SPACES PROVIDED FOR THE PLACEMENT OF GROUT SHALL BE IN ACCORDANCE WITH TABLE 1.16.1. HIGHER GROUT POURS. HIGHER GROUT LIFTS. SMALLER CAVITY WIDTHS. OR SMALLER CELL SIZES THAN THOSE SHOWN IN TABLE 1.16.1 ARE PERMITTED IF THE RESULTS OF A GROUT DEMONSTRATION PANEL SHOW THAT THE GROUT SPACES ARE FILLED AND ADEQUATELY CONSOLIDATED. IN THAT CASE. THE PROCEDURES USED IN CONSTRUCTING THE GROUT DEMONSTRATION PANEL SHALL BE THE MINIMUM ACCEPTABLE STANDARD FOR GROUTING. AND THE QUALITY ASSURANCE PROGRAM SHALL INCLUDE INSPECTION DURING CONSTRUCTION TO VERIFY GROUT PLACEMENT.

1.16.2 EMBEDDED CONDUITS. PIPES. AND SLEEVES CONDUITS. PIPES. AND SLEEVES OF ANY MATERIAL TO BE EMBEDDED IN MASONRY SHALL BE COMPATIBLE WITH MASONRY AND SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS.

1.16.2.1 DESIGN SHALL NOT CONSIDER CONDUITS. PIPES. OR SLEEVES AS STRUCTURALLY REPLACING THE DISPLACED MASONRY.

1.16.2.2 DESIGN SHALL CONSIDER THE STRUCTURAL EFFECTS RESULTING FROM THE REMOVAL OF MASONRY TO ALLOW FOR THE PLACEMENT OF PIPES OR CONDUITS.

1.16.2.3 CONDUITS. PIPES. AND SLEEVES IN MASONRY SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER.

1.16.2.4 VERTICAL CONDUITS. PIPES. OR SLEEVES PLACED IN MASONRY COLUMNS OR PILASTERS SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET CROSS SECTION.

1.16.2.5 PIPES SHALL NOT BE EMBEDDED IN MASONRY WHEN:
(A) CONTAINING LIQUID. GAS. OR VAPORS AT TEMPERATURE HIGHER THAN 150° F .
(B) UNDER PRESSURE IN EXCESS OF 55 PSI.
(C) CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING.

GROUT SPACE REQUIREMENTS

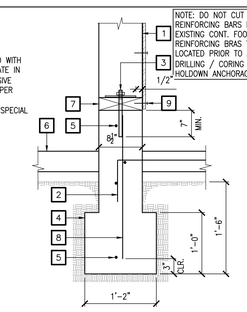
Grout type 1	Maximum grout pour height, ft	Minimum width of grout space, 2,3 in.	Minimum grout space dimensions for grouting cells of hollow units, 3,4 in. x in.
Fine	1	3/4	1 1/2 x 2
Fine	5	2	2 x 3
Fine	12	2 1/2	2 1/2 x 3
Fine	24	3	3 x 3
Coarse	1	1 1/2	1 1/2 X 3
Coarse	5	2	2 1/2 x 3
Coarse	12	2 1/2	3 x 3
Coarse	24	3	3 x 4

1 Fine and coarse grouts are defined in ASTM C 476.
2 For grouting between masonry wythes.
3 Grout space dimension is the clear dimension between any masonry protrusion and shall be increased by the diameters of the horizontal bars within the cross section of the grout space.
4 Area of vertical reinforcement shall not exceed 6 percent of the area of the grout space.

8

1. (N) POST PER PLAN
2. (E) DOWEL
3. (N) 5/8"ø THREADED ROD WITH SIMPSON BP BEARING PLATE IN SIMPSON "SET-XP" ADHESIVE EPOXY TO BE INSTALLED PER ICC-ES ESR-2508 AND MANUFACTURER'S SPECS. SPECIAL INSPECTION IS REQUIRED
4. (E) FOOTING
5. (E) T & B REBARS
6. (E) SLAB ON GRADE
7. (E) 3x SILL PLATE
8. (E) VERTICAL BARS
9. (N) SHEAR PANEL EDGE NAILING AT SILL PLATE

NOTE: DO NOT CUT ANY REINFORCING BARS IN THE EXISTING CONT. FOOTING. ALL REINFORCING BRAS TO BE LOCATED PRIOR TO ANY DRILLING / CORING FOR NEW HOLDOWN ANCHORAGE



DETAIL\FOOTING\FD722

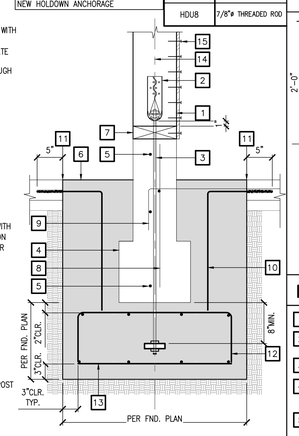
ANCHOR BOLT DETAIL AT EXIST. FTG.

SCALE NONE | 9

1. (N) POST PER PLAN
2. (N) HOLD-DOWN PER PLAN
3. (N) HOLD DOWN ANCHOR THREADED ROD PER SCHEDULE TO THE RIGHT WITH DOUBLE NUTS AND 4" SQUARE BY 1" THICK PLATE BETWEEN NUTS AT FOUNDATION. DRILL THROUGH EXISTING SLAB AND FOUNDATION.
4. (E) FOOTING
5. (E) T & B REBARS
6. (E) SLAB ON GRADE
7. (E) 3x SILL PLATE
8. (E) VERTICAL BARS
9. (E) DOWEL
10. #4 DOWEL AT 12" O/C WITH 5" EMBEDMENT IN SIMPSON "SET-XP" EPOXY (ICC-ESR 2508)
11. SAW-CUT AND JOIN
12. TOP BARS PER FDN. PLAN WITH 90 DEGREES HOOKS AT EA. END.
13. BOTTOM BARS PER FD. PLAN.
14. C/L OF (N) POST AND (N) PAD
15. (N) SHEAR PANEL EDGE NAILING AT HOLD DOWN POST

NOTE: DO NOT CUT ANY REINFORCING BARS IN THE EXISTING CONT. FOOTING. ALL REINFORCING BRAS TO BE LOCATED PRIOR TO ANY DRILLING / CORING FOR NEW HOLDOWN ANCHORAGE

HOLD DOWN	ANCHOR TIE
HDU4	5/8"ø THREADED ROD
HDU8	7/8"ø THREADED ROD

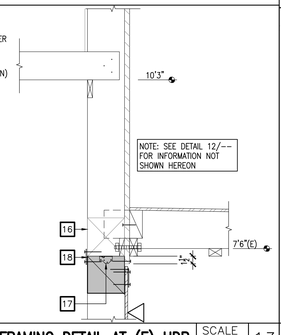


DETAIL\FOOTING\FD721

HOLD-DOWN DETAIL AT EXIST. FTG.

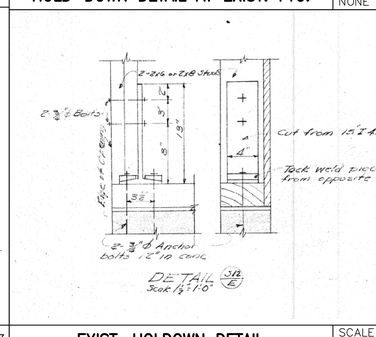
SCALE NONE | 10

16. (E) HDR
17. (N) A34 FRAMING ANGLE PER DETAILS 7/SD1 AND 8/SD1 AS APPLICABLE
18. (N) LTP5 AT 12" O/C AT (N) BLOCKING AND (E) HDR.



SHEAR TRANSFER/FRAMING DETAIL AT (E) HDR.

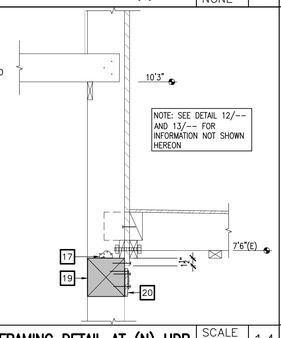
SCALE NONE | 13



EXIST. HOLDOWN DETAIL

SCALE NONE | 11

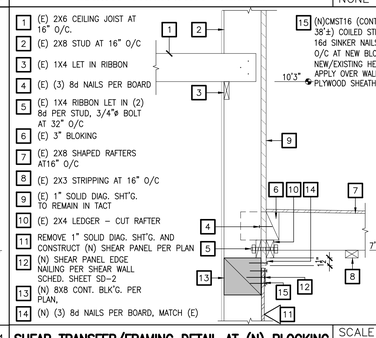
19. (N) HDR PER PLAN
20. (N)15/32" STRUCTURAL I (FILLER), 5 PLY APA RATED, 32/16 P.I., W/8D AT 6" O/C AT EDGES AND 12" O/C AT FIELD



SHEAR TRANSFER/FRAMING DETAIL AT (N) HDR.

SCALE NONE | 14

1. (E) 2X6 CEILING JOIST AT 16" O/C.
2. (E) 2X8 STUD AT 16" O/C
3. (E) 1X4 LET IN RIBBON
4. (E) (3) 8d NAILS PER BOARD
5. (E) 1X4 RIBBON LET IN (2) 8d PER STUD, 3/4"ø BOLT AT 32" O/C
6. (E) 3" BLOCKING
7. (E) 2X8 SHAPED RAFTERS AT16" O/C
8. (E) 2X3 STRIPPING AT 16" O/C
9. (E) 1" SOLID DIAG. SHT'G. TO REMAIN IN TACT
10. (E) 2X4 LEDGER – CUT RAFTER
11. REMOVE 1" SOLID DIAG. SHT'G. AND CONSTRUCT (N) SHEAR PANEL PER PLAN
12. (N) SHEAR PANEL EDGE NAILING PER SHEAR WALL SCHED. SHEET SD-2
13. (N) 8X8 CONT. BLK'G. PER PLAN,
14. (N) (3) 8d NAILS PER BOARD, MATCH (E)
15. (N)CMST16 (CONTINUOUS 38'±) COILED STRAP WITH 16d SINKER NAILS AT 3" O/C AT NEW BLOCKING AND NEW/EXISTING HEADER. APPLY OVER WALL NEW PLYWOOD SHEATHING



R00F/R446

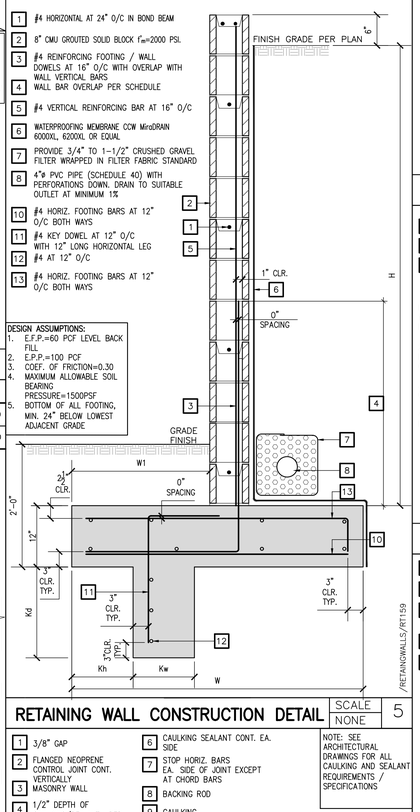
SHEAR TRANSFER/FRAMING DETAIL AT (N) BLOCKING

SCALE NONE | 12

H	KEY		FOOTING		OVERLAP LENGTH
	Kd	Kh	Kw	W	W1	
3'-0" AND LESS	12"	0"	12"	2'-3"	1'-3"	24"
3'-1" TO 5'-0"	35"	7"	15"	4'-4"	1'-5"	36"

1. #4 HORIZONTAL AT 24" O/C IN BOND BEAM
2. 8" CMU GROUTED SOLID BLOCK f'm=2000 PSI.
3. #4 REINFORCING FOOTING / WALL DOWELS AT 16" O/C WITH OVERLAP WITH WALL VERTICAL BARS WALL BAR OVERLAP PER SCHEDULE
4. #4 VERTICAL REINFORCING BAR AT 16" O/C
5. #4 VERTICAL REINFORCING BAR AT 16" O/C
6. WATERPROOFING MEMBRANE CCW MiraDRAIN 6000XL, 6200XL OR EQUAL
7. PROVIDE 3/4" TO 1-1/2" CRUSHED GRAVEL FILTER WRAPPED IN FILTER FABRIC STANDARD
8. 4"ø PVC PIPE (SCHEDULE 40) WITH PERFORATIONS DOWN. DRAIN TO SUITABLE OUTLET AT MINIMUM 1%
10. #4 HORIZ. FOOTING BARS AT 12" O/C BOTH WAYS
11. #4 KEY DOWEL AT 12" O/C WITH 12" LONG HORIZONTAL LEG
12. #4 AT 12" O/C
13. #4 HORIZ. FOOTING BARS AT 12" O/C BOTH WAYS

DESIGN ASSUMPTIONS:
1. E.F.P.=60 PCF LEVEL BACK FILL
2. E.P.P.=100 PCF
3. COEF. OF FRICTION=0.30
4. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE=1500PSF
5. BOTTOM OF ALL FOOTING, MIN. 24" BELOW LOWEST ADJACENT GRADE



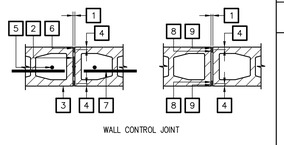
/RETAINGWALLS/RT159

RETAINING WALL CONSTRUCTION DETAIL

SCALE NONE | 5

1. 3/8" GAP
2. FLANGED NEOPRENE CONTROL JOINT CONT. VERTICALLY
3. MASONRY WALL
4. 1/2" DEPTH OF CAULKING/SEALANT PER ARCH. PLANS
5. ONE WALL VERTIVCAL REBAR PER DETAIL 8/ THIS SHEET BOTH SIDES OF JOINT
6. CAULKING SEALANT CONT. EA. SIDE
7. STOP HORIZ. BARS EA. SIDE OF JOINT EXCEPT AT CHORD BARS
8. BACKING ROD
9. CAULKING

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ALL CAULKING AND SEALANT REQUIREMENTS / SPECIFICATIONS

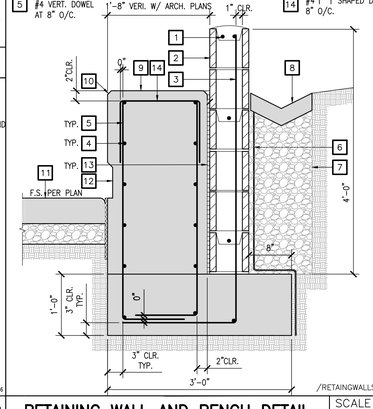


STRUCT\CMD-MASONRY\F7

TYPICAL MASONRY CONTROL JOINTS DETAIL

SCALE NONE | 6

1. #4 HORIZONTAL AT 24" O/C IN BOND BEAM
2. 8" CMU GROUTED SOLID BLOCK
3. #4 VERT. BARS AT 24" O/C.
4. #4 HORZ. AT 8" O/C.
5. #4 VERT. DOWEL AT 8" O/C.
6. WATERPROOFING MEMBRANE PER ARCH. PLANS
7. 3/4" OPEN GRADED GRAVEL BACK FILL
8. CONC. V-GUTTER PER DETAIL 7/C-1
9. CONC. BENCH PER ARCH. PLANS DETAIL 4/A8-1.1
10. 3/4" CHAMFER AT ALL CONC. EXPOSED EDGES
11. SLAB ON GRADE PER DETAIL 3/C-1
12. NOTCH PER DETAIL 4/A8-1.1
13. POSITIVE SEPARATION. SEAL PER ARCH. PLANS
14. #4 ⌐ SHAPED DOWEL AT 8" O/C.



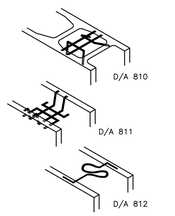
/RETAINGWALLS/RT164

RETAINING WALL AND BENCH DETAIL

SCALE NONE | 7

VERTICAL BAR POSITIONER

Standard 9 gage with mill galvanized finish–locate at top of 1st course. 1 course below top of wall with a maximum 192 vertical bar diameters. Allows position bar at center of wall or either side of cavity. Standard sizes fit 8" and 12" block–other sizes on request.
They can be fabricated to position double vertical bars and/or double horizontal bars. Required for reinforced masonry by Uniform Building Code and ACI Committee 531 Code.



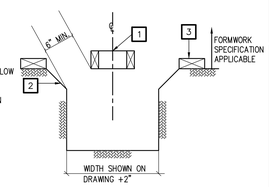
DETAIL\CMD-MASONRY\F2

TYPICAL SAMPLE BAR POSITIONER

SCALE NONE | 1

1. CURB OR STARTER WALL
2. CUT BACK SPALL
3. 2" PLANKING TYP.

NOTES:
1. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM
2. 1 ½" MIN. STARTER WALL REQUIRES FOR FOOTING BELOW GRADE
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED
4. STAKES NOT PERMITTED WITHIN FOOTING SECTION

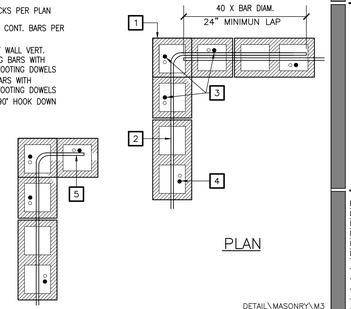


FTG\FD428

STARTER WALL–REQUIRED FOR ALL MASONRY AND CONCRETE WALL

SCALE NONE | 2

1. C.M.U. BLOCKS PER PLAN
2. HORIZONTAL CONT. BARS PER PLAN
3. (3) END OF WALL VERT. REINFORCING BARS WITH MATCHING FOOTING DOWELS
4. VERTICAL BARS WITH MATCHING FOOTING DOWELS
5. #4 BARS WITH 90° HOOK DOWN INTO BLOCK

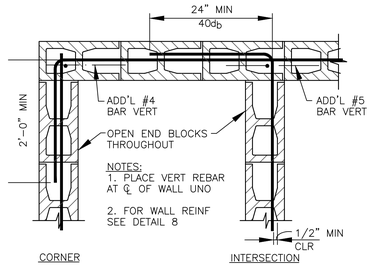


PLAN

DETAIL\MASONRY\M3

TYP. REINF. AT CORNERS

SCALE NONE | 3



TYPICAL MASONRY WALL CONSTRUCTION DETAILS

SCALE NONE | 4

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J.N. 29-2020

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA PLAN CHECK	04/26/2021
DSA PLAN CHECK	05/21/2021
DSA PLAN CHECK	08/27/2021
DSA PLAN CHECK	11/05/2021

REVISIONS:

DEPARTMENT OF THE STATE ARCHITECT
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

P.T.N. _____-_____

REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER
ANDREW NG RCE 73970
EXP12-31-21
OF CALIFORNIA

11/2/2021

SHEET TITLE:
MASONRY SPECIFICATION AND STRUCTURAL DETAILS

SHEET NUMBER:
SD3

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624	CEDI	CEDI	01/26/2021

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MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONING
ACD	AUTOMATIC CONTROL DAMPER
ACU	AIR CONDITIONING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AT	AIR TERMINAL
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BIW	BACKWARD INCLINED WHEEL
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BOD	BOTTOM OF DUCT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMP	COMPRESSOR
COND	CONDENSATE
CONT	CONTINUATIONE
D	DROP
DAD	DUCT ACCESS DOOR
DB	DRY BULB
DIAM	DIAMETER
DIFF	DIFFUSER
DL	DOOR LOUVER
E (NAME)	EXISTING PIPE
ESP	EXTERNAL STATIC PRESSURE
EA	EXHAUST AIR
EAR	EXHAUST AIR REGISTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ENT	ENTERING
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FILTER
°F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPERAGE
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FIN	FINISHED
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET
FF	FINISHED
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HIGH
HC	HEATING COIL
HEPA-AF	HIGH EFFICIENCY PARTICULATE AIR FILTERS
HP	HORSEPOWER
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE STEAM
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING
KW	KILOWATT
L	LONG
LRA	LOCKED ROTOR (AMPERAGE)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LDB	LEAVING DB TEMPERATURE
LIN FT	LINEAR FEET
LVG	LEAVING
LWB	LEAVING WB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
MOT	MOTOR
MVD	MANUAL VOLUME DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OPW	OPERATING WEIGHT
OSA	OUTSIDE AIR
OPNG	OPENING
PD	PRESSURE DROP
PF	PERFORATED (FACE)
PG	PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
POC	POINT OF CONNECTION
POR	POINT OF REMOVAL
PRSS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PT	PLUGGED TEE
R	RISE
RLA	RATED LOAD (AMPERAGE)
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RAG	RETURN AIR GRILLE
RCT	RECTANGULAR (FACE)
REG	REGISTER
RG	RELIEF GRILLE
RL	REFRIGERANT LIQUID LINE
RPM	REVOLUTION PER MINUTE
RS	REFRIGERANT SUCTION LINE
SA	SUPPLY AIR
SAC	SPLIT AIR CONDITIONER
SAD	SUPPLY AIR DIFFUSER
SAR	SUPPLY AIR REGISTER
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY-EFFICIENCY RATIO
SENS	SENSIBLE
SMACNA	SHEET METAL & AC NATIONAL ASSOCIATION
SMD	AUTOMATIC SMOKE DAMPER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE (FACE)
SQ.FT.	SQUARE FOOT
TA	THROW AWAY (FILTER)
TD	TRANSFER DUCT
TOD	TOP OF DUCT
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TH	THERMOMETER
TV	TURNING VANES
TW	THERMOMETER WELL
TYP	TYPICAL
UC	UNDERCUT (DOOR)
UL	UNDERWRITERS LABORATORY
UN	UNION
UTR	UP THRU ROOF
V	VENT OR ATMOSPHERIC RELIEF
VAC	VACUUM
VD	VOLUME DAMPER
VTR	VENT THRU ROOF
W	WIDE
W/	WITH
W/O	WITHOUT
WB	WET BULB
WBT	WET BULB TEMPERATURE
WG	WATER GAUGE
WP	WORKING PRESSURE

THERMOSTAT MOUNTING HEIGHTS / OVER OBSTRUCTIONS

MEP COMPONENT ANCHORAGE NOTES

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
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 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL BE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS 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 SYSTEM, 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 SUBJECTED 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 THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT 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 THE 2016 CBC, SECTION 1616A.1.23, 1616A.1.24, 1616A.1,25, AND 1616A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENT ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., 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 SYSTEM (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT SPECIFIC NOTES AND DETAILS

MP☐ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #0052-13.

DUCTWORK SYMBOLS

- RETURN AIR DUCT UP
- SUPPLY AIR DUCT UP
- EXHAUST AIR DUCT UP
- RETURN AIR DUCT DOWN
- SUPPLY AIR DUCT DOWN
- EXHAUST AIR DUCT DOWN
- ELBOWS WITH TURNING VANES
- TEE DUCT WITH TURNING VANES
- DUCT WITH INSULATION WRAP
- DUCT WITH ACOUSTICAL LINING
- D — DUCT DROP
- R — DUCT RISE
- SQUARE TO ROUND TRANSITION
- ROUND TO ROUND TRANSITION
- FLEXIBLE DUCT
- FLEXIBLE CONNECTION
- RADIUS ELBOW
- 300 CFM OR 300 CFM — SUPPLY AIR RECTANGULAR CEILING DIFFUSER 4-WAY AIR FLOW UNLESS SPECIFIED ON THE FLOOR PLANS, 300 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL
- 250 CFM OR 250 CFM — RETURN AIR RECTANGLAR CEILING REGISTER /GRILLE, 250 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL
- 350 CFM OR 350 CFM — EXHAUST AIR GRILLE, 350 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL.
- OR — VERTICAL DUCT DROP
- OR — VERTICAL DUCT RISE
- SIDE WALL REGISTER SUPPLY AIR
- SIDE WALL REGISTER RETURN AIR
- OR F — FIRE DAMPER
- OR A — AUTOMATIC CONTROL DAMPER
- S — COMBINATION OF SMOKE AND FIRE DAMPER AND ASSOCIATED DUCT SMOKE DETECTOR
- B — BACK DRAFT DAMPER (w/ direction of flow)
- MANUAL VOLUME DAMPER
- DL — DOOR LOUVER
- UC — UNDERCUT (DOOR)
- T3 — THERMOSTAT # CORRESPONDS WITH UNIT NUMBER, SEE DETAIL BELOW.
- SD — DUCT SMOKE DETECTOR
- WS — WALL SWITCH
- Ø — DIAMETER / ROUND
- SQUARE FEET
- ZONE CONTROL DAMPER
- BY-PASS DAMPER
- POINT OF CONNECTION

APPLICABLE CODES

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
2019 CALIFORNIA GREEN BUILDING STANDARD CODE, PART 11, TITLE 24 C.C.R.
2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

COORDINATION

1- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE DUCTWORK, PIPING AND OTHER WORK SPECIFIED IN THE HVAC SECTIONS OF THE SPECIFICATIONS IS TO BE LOCATED. THE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND CONFIGURATIONS REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PLACING, LOCATION, AND CONNECTION OF THIS WORK IN RELATION TO THE WORK OF OTHER TRADES.

2- THE CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL MECHANICAL, PLUMBING, CIVIL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT, AND ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES FOR THEM IN PREPARING THE BID.

3- COORDINATE FINISHING COLOR OF ALL AIR TERMINALS WITH ARCHITECT. FINISHING COLOR SPECIFIED ON EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY.

4- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.

POLLUTANT CONTROL NOTES

FOR THE PERIOD OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, PROVIDE COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY. (5.504.3 CAL GREEN)

ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS (5.504.4.1 CAL GREEN)

GENERAL DEMOLITION NOTES

REFER TO ARCHITECTURAL DEMOLITION DRAWINGS IN THIS PHASE AND FOR DEMOLITION AREAS AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC EQUIPMENT AND SYSTEMS. VERIFY ALL SPECIFIC DEMOLITION WORK PRIOR TO COMMENCING. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1- REMOVE ALL DUCTWORK, DUCTWORK ACCESSORIES, DIFFUSERS, GRILLES, HVAC SYSTEM INSULATION AND SUPPORTS, TEMPERATURE CONTROL DEVICES, HVAC EQUIPMENT AND SPECIALTIES.

2- PERFORM CUTTING AND PATCHING OF THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF MECHANICAL WORK OR REMOVAL OF EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS AND ACCURATELY MATCH SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.

3- WHERE NEW PARTITIONS OR OTHER CONSTRUCTION AND/OR INSTALLATION OF NEW CEILING INTERFERES WITH THE EXISTING AIR DISTRIBUTION SYSTEM, MODIFY THE AIR OUTLETS / INLETS AND ASSOCIATED DUCTWORK AND ACCESSORIES AS REQUIRED TO MATCH THE NEW ARCHITECTURAL LAYOUT TO SATISFACTION OF THE ARCHITECT.

4- ALL REMOVED MATERIALS AND EQUIPMENT WHICH, IN THE OPINION OF THE ARCHITECT, ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE DISTRICT. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. WHERE MATERIALS AND EQUIPMENT HAVE BEEN REMOVED AND NOT REPLACED THE EXPOSED SURFACE BEHIND MATERIAL OR EQUIPMENT SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. DO NOT REUSE MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY SPECIFIED ON PLANS. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.

5- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL FEATURES OF THE BUILDING AND SITE, WHICH MAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.

6- EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING UNDERGROUND UTILITIES, AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.

SELECTIVE DEMOLITION NOTES

1. THIS SECTION INCLUDES LIMITED SCOPE OF SELECTIVE MECHANICAL DEMOLITION WORK AS FOLLOWS:
   A. NONDESTRUCTIVE REMOVAL OF MATERIALS AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED.
   B. DISMANTLING MECHANICAL MATERIALS AND EQUIPMENT MADE OBSOLETE BY THESE INSTALLATIONS.

2 GENERAL CONDITIONS
   A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01 AND 23 SPECIFICATION SECTIONS.
   B. SCHEDULES INDICATING PROPOSED METHODS AND SEQUENCE OF OPERATION FOR SELECTIVE DEMOLITION PRIOR TO COMMENCEMENT OF WORK. INCLUDE COORDINATION FOR SHUT-OFF OF UTILITY SERVICES AND DETAILS FOR DUST AND NOISE CONTROL.
      1. COORDINATE SEQUENCING AND OWNER OCCUPANCY SPECIFIED IN DIVISION 01.
      2. COORDINATE OTHER SELECTIVE DEMOLITION WORK AS OUTLINED IN DIVISION 01.

3 PROJECT CONDITIONS
   A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY:
      1. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE.
      2. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS. PROVIDE MINIMUM OF 72-HOUR NOTICE TO OWNER PRIOR TO UTILITY INTERRUPTION.

4 SEQUENCE AND SCHEDULING
   A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE UTILITY COMPANY.
   B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS.
   C. PERFORM DEMOLITION IN PHASES AS INDICATED.

5 EXAMINATION
   A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR. DETERMINE EXTENT OF WORK AND AFFECT ON EXISTING CONDITIONS TO REMAIN. ADVISE ARCHITECT OF ANY CONDITIONS THAT MIGHT CREATE EXTENSIVE ALTERATIONS BEYOND INDICATED SCOPE.

6 SELECTIVE DEMOLITION
   A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR SAVED.
   B. MATERIALS AND EQUIPMENT TO BE SALVAGED: REMOVE, DEMOUNT, AND DISCONNECT EXISTING MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED, AND DELIVER MATERIALS AND EQUIPMENT TO THE LOCATION DESIGNATED FOR STORAGE.
   C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.
   D. MECHANICAL MATERIALS AND EQUIPMENT: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT THE FOLLOWING ITEMS:
      1. INACTIVE AND OBSOLETE PIPING, FITTINGS AND SPECIALTIES, EQUIPMENT, DUCTWORK, CONTROLS, FIXTURES, AND INSULATION.
         a. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS ALLOWED TO REMAIN.
      2. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION.

STRUCTURAL NOTES

1- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT/AUTHORITIES HAVING JURISDICTION.

2- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAIL IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA/AHJ.

3- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/AHJ.

4- ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA MANUAL. SEE SEISMIC RESTRAINT NOTES ON THIS SHEET.

5- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE SMACNA GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER OR AHJ.

6- A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

COMBINATION SMOKE/FIRE DAMPER NOTE

1- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

DUCT LINING NOTE

1- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FROM CONNECTION POINT OF UNIT TO MIN. 20 FEET DOWN STREAM OF THE UNIT OPENING. SEE MECHANICAL DRAWINGS FOR EXTENDED (MORE THAN 20')REQUIREMENT OF DUCT LINING. ALL BRANCH DUCTWORK WITH TAKEOFF FROM MAIN SUPPLY/RETURN DUCTS WITHIN 20 FEET OF THE UNIT OPENING SHALL BE ACOUSTICALLY LINED IN ITS ENTIRETY INCLUDING ANY DUCT FITTINGS, ELBOWS, SUB-BRANCH DUCTS, AND SUPPLY/RETURN DIFFUSER/GRILLE PLENUMS. ALL DUCT FITTINGS AND ELBOWS WHERE SHOWN TO BE CONNECTED TO A LINED DUCTWORK SHOULD BE PROVIDED WITH THE SAME LINING SPECIFIED FOR THE DUCT. DUCT LINING AND INSULATION MATERIAL AND THICKNESS SHALL BE PER SPECIFICATION BOOK. SEE MECHANICAL FLOOR PLANS EXTENDED (MORE THAN 20') DUCT LINING REQUIREMENTS. LINING SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 50.

GENERAL NOTES

1- ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR.
2- ALL ROOM THERMOSTATS TO BE MOUNTED AT ELEVATION SHOWN ON THIS SHEET, SEE DETAIL BELOW.
3- ALL INDIVIDUAL DUCTWORK BRANCH CONNECTING TO SUPPLY, RETURN, EXHAUST, OUTSIDE AIR, ETC.. AIR TERMINAL SHALL BE EQUIPPED WITH A MANUAL VOLUME DAMPER.
4- ALL SQUARE ELBOWS TO BE PROVIDED WITH TURNING VANES UNLESS OTHERWISE INDICATED.
5- DO NOT USE SQUARE ELBOW WITH TURNING VANES AT THE FIRST CHANGE IN DIRECTION OF AIR AFTER THE FAN DISCHARGE. INSTALL ACOUSTICALLY LINED RADIUS ELBOW.
6- TO DETERMINE THE EXACT NUMBER AND LOCATION OF FIRE DAMPERS AND COMBINATION SMOKE/FIRE DAMPERS THAT MAY BE REQUIRED, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS WHICH INDICATE THE LOCATION OF FIRE RATED WALLS, PARTITIONS AND CEILINGS.
7- COORDINATE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.
8- FOR BUILDING LOCATIONS, DIMENSIONS AND GRADE ELEVATIONS SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
9- PROVIDE WATER-PROOFING FOR ALL EQUIPMENT ANCHORAGE ON ROOF AND DUCT PENETRATIONS THRU ROOF PER ARCHITECTURAL DETAILS.
10- ROUND AND RECTANGULAR DUCTWORK IS INTERCHANGEABLE UPON APPROVAL OF MECHANICAL ENGINEER. CONTRACTOR IS TO VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL FEE.
11- PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT THRU BUILDING ENVELOPE UNLESS OTHERWISE NOTED.
12- PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD, 1/2" GALVANIZED MESH SCREENS.
13- EXHAUST DUCT TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0" ABOVE FROM ANY FRESH AIR INTAKE, OPENABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.
14- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DUCTWORK WITH THE WORK OF ALL OTHER TRADES SUCH AS STRUCTURAL BEAMS, PLUMBING PIPING, FIRE SPRINKLER PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC.. WHERE REQUIRED OR NOTED ON DRAWINGS, RUN DUCTWORK BETWEEN LIGHT FIXTURES, BEAMS, ETC..
15- PROVIDE WATER PROOFING FOR ALL FLASHING AND COUNTERFLASHING FOR MECHANICAL WORK.
16- THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
17- ALL NOTES ON THIS SHEET REMAIN PART OF THE CONTRACT DOCUMENTS.
18- ASBESTOS OR HAZARDOUS WASTE: IT IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL. IF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED, NOTIFY THE OWNER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.
19- FOR ACTUAL DIMENSIONS OF LOUVER SIZES SEE ARCHITECTURAL DRAWINGS, PROVIDE AND ATTACH PLENUMS AND OR DUCTS TO ACCOMMODATE THOSE DIMENSIONS AS NEEDED.
20- UNIT NUMBERS FOR MECHANICAL EQUIPMENT SHOWN IN SCHEDULES ARE FOR TYPE OF UNIT ONLY. FOR QUANTITIES & LOCATIONS OF MECHANICAL UNITS, SEE MECHANICAL DRAWINGS.
21- ALL ZONE DAMPERS AND COMBINATION SMOKE FIRE DAMPERS TO BE PERMANENTLY LABELED TO INDICATE THE ROOM(S) THEY SERVE.
22- ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE, INCLUDING ALL APPLICABLE STATE TITLE 24 AMENDMENTS, CITY AND COUNTY LAWS AND ORDINANCES.
23- THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS AND/OR ACCESS PANELS AT LOCATIONS AS NECESSARY TO PROVIDE ACCESSIBILITY FOR SERVICE/ MAINTENANCE OF FIRE/SMOKE DAMPERS, MECHANICAL EQUIPMENT AND DEVICES. ALL ACCESS DOORS AND PANEL LOCATIONS AND SIZES SHALL BE PROVIDED BY CONTRACTOR AND SUBMITTED TO ARCHITECT PRIOR TO INSTALLATION FOR VERIFICATION PURPOSES.
24- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY OPERABILITY, LOCATION AND SIZES OF ALL EXISTING EQUIPMENT/ SERVICES AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.
25- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION, OR DIVISION OF STATE ARCHITECT, WHERE APPLICABLE.
26- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
27- ALL SPACE CONDITIONING EQUIPMENT SHALL BE CERTIFIED BY MANUFACTURER TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
28- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
29- PROVIDE AIR DIFFUSERS AND GRILLES TO MATCH THE CURVATURE WHEN AIR DIFFUSERS AND GRILLES APPEAR TO BE CURVED OR TO BE INSTALLED ON A CURVED SURFACE.
30- ALL PARTS OF AN EXPOSED AIR DISTRIBUTION SYSTEM TO BE PAINTED AS REQUIRED PER ARCHITECT. COORDINATE FINISHING COLOR WITH ARCHITECT.
31- INSULATION ON REFRIGERANT LINES SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 50.

MANUAL VOLUME DAMPER NOTE

1- PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT APPLICATION OR APPROVED EQUAL PRODUCTS. PROVIDE GUIDE CABLE OF REQUIRED LENGTH FOR INSTALLATION OF THE CEILING CUP AND COVER PLATE AT LOCATIONS APPROVED BY ARCHITECT. CONTRACTOR SHALL SUBMIT ON PROPOSED LOCATIONS OF CEILING CUPS FOR REVIEW AND APPROVAL BY THE ARCHITECT.

THERMOSTAT NOTES

1- TEMPERATURE THERMOSTAT: TEMPERATURE RANGE 55°F TO 85°F SEQUENCE HEATING AND COOLING, ADJUSTABLE TO 10°F BETWEEN HEATING AND COOLING, CAPABILITY TO TERMINATE ALL HEATING AT NO MORE THAN 70°F AND TERMINATE ALL COOLING AT NOT LESS THAN 78°F OR PROVIDE T-STAT TO MEET THE OWNER'S STANDARDS, WHERE APPLICABLE.
2- THE LOCATION OF THERMOSTATS TO BE FINALIZED DURING CONSTRUCTION. IF THE LOCATION OF THE THERMOSTATS SHOWN ON MECHANICAL DRAWINGS ARE IN CONFLICT WITH BUILDING ELEMENTS OR DESIGN, CONTRACTOR SHALL RELOCATE THE THERMOSTAT AND RUN REQUIRED WIRING FOR A SUCCESSFUL INSTALLATION TO ANOTHER LOCATION APPROVED BY MECHANICAL ENGINEER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER UP TO MAXIMUM 20' AWAY FROM ORIGINAL LOCATION SHOWN ON MECHANICAL DRAWINGS.
3- DO NOT INSTALL THERMOSTATS WHERE THE OPERATION OF THE DEVICE MAY BE EFFECTED BY:
   a. DIRECT SUNSHINE EFFECT.
   b. MINIMIZED AIR CIRCULATION (BEHIND THE DOORS OR CABINETS OR SIMILAR LOCATIONS).
   c. OUTDOOR TEMPERATURE (ON EXTERIOR WALLS, OR SIMILAR LOCATIONS).
   d. HEAT GENERATING EQUIPMENT (PROVIDE PROPER DISTANCE FROM HEAT GENERATING EQUIPMENT).
   e. LOCATIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE BETWEEN DRAWINGS AND WORKS OF OTHER TRADES AND ENSURE PROPER LOCATION SELECTION FOR INSTALLATION OF THE THERMOSTAT FOR SATISFACTORY OPERATION OF THE DEVICE.
   f. THERMOSTATS SHALL BE INSTALLED AT HEIGHTS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED FOR ACCESSIBILITY REGULATIONS.
4- PROVIDE INSULATED THERMOSTAT BOX IF THERMOSTAT TO BE INSTALLED ON EXTERIOR WALL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	05/25/2021

REVISIONS:

DEPARTMENT OF THE STATE ARCHITECT
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: ....03-121233...........
AC..............FLS...............SS...............
DATE:...

P.T.N. _________-____

REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER MATTHEW M. PEZESHKI No. M 29925 Exp. 06-30-2022 MECHANICAL STATE OF CALIFORNIA

SHEET TITLE:
MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

SHEET NUMBER:
M0-1.0

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624			01/26/2021

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EXHAUST FAN SCHEDULE

UNIT SYMBOL	EF-1	EF-2
LOCATION	ROOF LIBRARY BLDG.	ROOF LIBRARY BLDG.
SERVICE	GENERAL EXHAUST	GENERAL EXHAUST
TYPE	ROOF MOUNTED	ROOF MOUNTED
MANUFACTURER	COOK	COOK
MODEL	60 ACEB	60 ACEB
FAN – CFM	100	150
EXTERNAL S.P. – "WG	0.25	0.25
DRIVE TYPE	BELT	BELT
FAN MOTOR – HP	1/6	1/6
FAN MOTOR – RPM	1101	1346
OUTLET VELOCITY – FPM	152	229
TIP SPEED – FPM	2882	3523
DISCHARGE LOCATION	DOWNBLAST	DOWNBLAST
WHEEL TYPE	BACKWARD INCLINED	BACKWARD INCLINED
VOLTAGE / PHASE	120 / 1	120 / 1
CURB TYPE	RCG	RCG
OPERATING WEIGHT – LBS	90	90
DETAIL REFERENCE	4/M0-1.3	4/M0-1.3
INTERLOCK	LIGHT SWITCH	LIGHT SWITCH
REMARKS	(1)(2)	(1)(2)

◯ **REMARKS**

1– UNIT COMPLETE WITH BACKDRAFT DAMPER, BIRDSCREEN, AND MANUFACTURER'S PREFABRICATED GALVANIZED ROOF CURB. WHERE ROOF IS SLOPED, PROVIDE SLOPED ROOF CURB TO MATCH ROOF.

3– INTERLOCK FAN OPERATION WITH SPACE LIGHTING. PROVIDE TIME DELAY SWITCH TO TURN OFF EXHAUST FAN 5 MINUTES AFTER SPACE LIGHTING TURNS OFF.

HEAT PUMP SCHEDULE (PACKAGED)

	UNIT SYMBOL	AC-1	AC-2	AC-3
	LOCATION	LIBRARY ROOF	LIBRARY ROOF	LIBRARY ROOF
	SERVICE	LIBRARY BLDG	LIBRARY BLDG	LIBRARY BLDG
	MANUFACTURER	RHEEM	RHEEM	RHEEM
	MODEL	RJPL-A060DK	RJPL-A060DK	RJPL-A060DK
	TYPE	HEAT PUMP/ SIDE DISCHARGE	HEAT PUMP/ DOWN DISCHARGE	HEAT PUMP/ DOWN DISCHARGE
SUPPLY FAN	INDOOR FAN – CFM	1900	1900	1900
	OUTSIDE AIR – CFM	450	450	450
	EXTERNAL S.P. – "WG	0.75	0.75	0.75
	MOTOR HP / TYPE / RPM / SPEED	1.0 / DIRECT / 1050 /HIGH	1.0 / DIRECT / 1050 /HIGH	1.0 / DIRECT / 1050 /HIGH
COOLING	EVAP. EAT – °F – DB	80.0	80.0	80.0
	EVAP. EAT – °F – WB	67.0	67.0	67.0
	CND. EAT – °F – DB	95.0	95.0	95.0
	ARI COOLING CAPACITY – MBH	59.5	59.5	59.5
	ARI COOLING CAPACITY SENSIBLE – MBH	43.6	43.6	43.6
	REFRIGERANT TYPE	R410A	R410A	R410A
	ARI EER / SEER	11.7 / 14.00	11.7 / 14.00	11.7 / 14.00
	COMPRESSOR INPUT – KW	5.05	5.05	5.05
HEATING	INDOOR COIL EAT – °F – DB	70.0	70.0	70.0
	INDOOR COIL LAT – °F – DB	94.77	94.77	94.77
	OUTDOOR AMBIENT TEMP. – °F – DB	47.0	47.0	47.0
	HEATING INPUT – MBH	59.5	59.5	59.5
	COP / KW	3.6 / 4.8	3.6 / 4.8	3.6 / 4.8
	HEATING POWER INPUT – KW	4.47	4.47	4.47
ELECTRICAL	COMPRESSOR NO. / RLA (EA)	1 / 7.8	1 / 7.8	1 / 7.8
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.0	1 / 1.0	1 / 1.0
	INDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.7	1 / 1.7	1 / 1.7
	COMBUSTION FAN MOTOR FLA (EA)	NA	NA	NA
	MCA / MOCP	13 / 20	13 / 20	13 / 20
	VOLTAGE / PHASE	460 / 3	460 / 3	460 / 3
	FILTER TYPE	MERV-13	MERV-13	MERV-13
	CONDENSER COIL HAIL GUARD (LOUVERED)	REQUIRED (2)	REQUIRED (2)	REQUIRED (2)
	FLUE DEFLECTOR	N/A	N/A	N/A
	ECONOMIZER	INCLUDED	(1)	(1)
	CURB MANUFACTURER / MODEL / HEIGHT	RHEEM / RXKG-CAD14 / 14"	RHEEM / RXKG-CAD14 / 14"	RHEEM / RXKG-CAD14 / 14"
	OPERATING WEIGHT INCLUDING ROOF CURB (LBS)	713	713	713
	DIMENSIONS (L"xW"xH")	77 x 48 x 36	77 x 48 x 36	77 x 48 x 36
	DETAIL REFERENCE	3/M0-1.2	2/M0-1.2	2/M0-1.2
	REMARKS	(2)(3)(4)(5)	(2)(3)(4)(5)(6)	(2)(3)(4)(5)(6)

◯ **REMARKS**

1– UNIT COMPLETE WITH FACTORY INSTALLED MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE CAPABILITY AND BAROMETRIC RELIEF.

2– UNIT COMPLETE WITH FACTORY INSTALLED LOUVERED HAIL GUARD AND LOW AMBIENT FREEZE STAT.

3– OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES, AND ROOF CURB.

4– PROVIDE RHEEM DELUX PROGRAMMABLE THERMOSTAT MODEL #RHC-TST-300-HP.

5– PROVIDE FACTORY MOUNTED AND TESTED UVC LIGHT AND BIPOLAR IONIZATION SYSTEM PER SPEC REQUIREMENTS. PROVIDE THE REQUIRED POWER TRANSFORMERS.

6– INTERLOCK AC UNIT TO THE BUILDING SMOKE DETECTION SYSTEM FOR AUTOMATIC UNIT SHUTDOWN UPON SMOKE DETECTION. BUILDING IS SERVED BY TOTAL COVERAGE SMOKE-DETECTION SYSTEM, AUTOMATIC UNIT SHUT OFF CAN BE ACCOMPLISHED BY INTERCONNECTION TO SUCH SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

EXISTING HEAT PUMP AND NEW HEAT PUMP COMPARISON SCHEDULE

MANUFACTURER	RHEEM MANUFACTURING COMPANY	
CONDITION	EXISTING	NEW
MODEL	RJNL-A060JK	RJPL-A060JK
DIMENSIONS (LxWxH) – IN	75 x 47 x 35	70 x 45 x 41
UNIT WEIGHT – LBS	565	580
CURB WEIGHT – LBS	120	133
TOTAL WEIGHR – LBS.	685	713

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FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTOTNIK
No. M 29627
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M0-1.1

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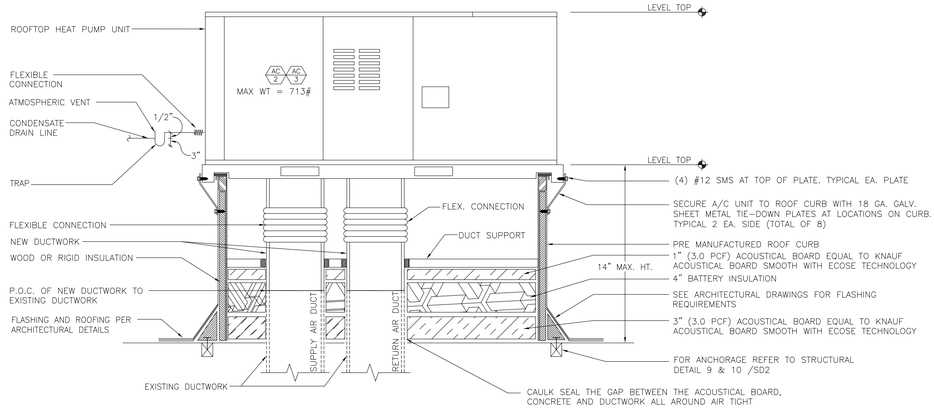


NOTES:

1– PROVIDE FIRE MARSHAL APPROVED DUCT SMOKE DETECTOR FOR AIR MOVING SYSTEM SUPPLYING IN EXCESS OF 2000 CFM FOR AUTOMATIC SHUT OFF. IF BUILDING IS SERVED BY TOTAL COVERAGE SMOKE-DETECTION SYSTEM, AUTOMATIC UNIT SHUT OFF CAN BE ACCOMPLISH BY INTERCONNECTION TO SUCH SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

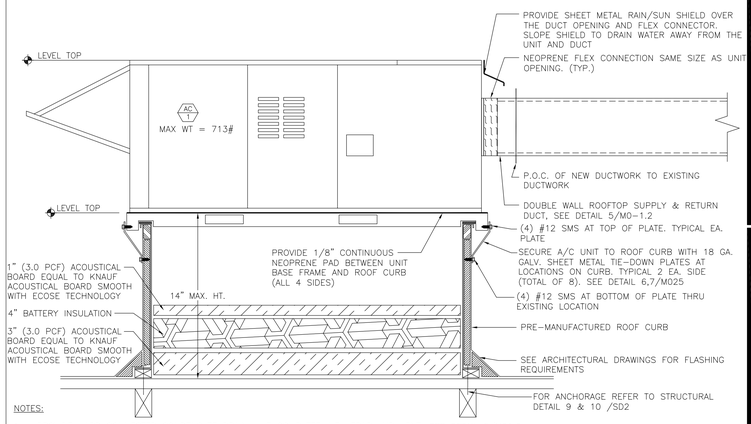
2– PROVIDE NECESSARY TRANSITION FROM THE UNIT DISCHARGE AND RETURN OPENING TO THE ASSOCIATED SUPPLY AND RETURN AIR DUCTWORKS.

3– SEE ARCHITECTURAL SHEET FOR MORE INFORMATION ON CURB AND WATER-PROOFING.

4– WHERE UNIT IS INSTALLED ON A SLOPED ROOF PROVIDE A PREFABRICATED PITCHED ROOF CURB TO MATCH THE SLOPE OF THE ROOF FOR A LEVEL INSTALLATION OF THE AC UNIT. ROOF CURB MUST BE A MANUFACTURED PITCHED ROOF CURB. SITE BUILT CURBS ARE NOT ACCEPTABLE. IF THE MANUFACTURER OF ROOF CURB CAN NOT PROVIDE A PITCHED ROOF CURB DUE TO THE EXCESSIVE SLOPE OF THE ROOF, PROVIDE A STRUCTURAL LEVELING PLATFORM, THEN INSTALL A LEVEL ROOF CURB. COORDINATE THIS EFFORT WITH WORK OF ALL OTHER TRADES INVOLVED.

HEAT PUMP UNIT INSTALLATION DETAIL (DOWN DISCHARGE)

2 NOT TO SCALE



NOTES:

1– PROVIDE HARD CONNECTED CONDENSATE DRAIN LINE COMPLETE WITH TRAP AND VENT. SEE DETAIL 5/M01.3.

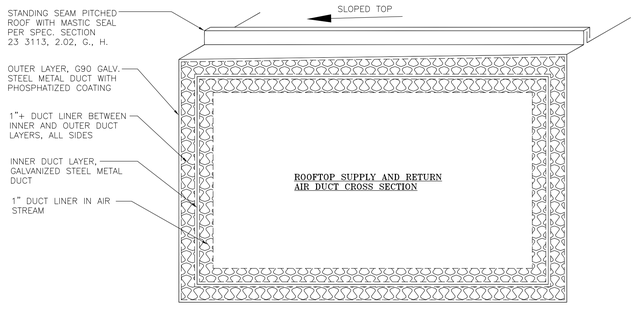
2– PROVIDE NECESSARY TRANSITION FROM THE UNIT DISCHARGE AND RETURN OPENING FOR CONNECTION TO THE ASSOCIATED EXISTING SUPPLY AND RETURN AIR DUCTWORKS.

3– SEE ARCHITECTURAL SHEET FOR MORE INFORMATION ON CURB AND WATER-PROOFING.

4– WHERE UNIT IS INSTALLED ON A SLOPED ROOF PROVIDE A PREFABRICATED PITCHED ROOF CURB TO MATCH THE SLOPE OF THE ROOF FOR A LEVEL INSTALLATION OF THE AC UNIT. ROOF CURB MUST BE A MANUFACTURED PITCHED ROOF CURB. SITE BUILT CURBS ARE NOT ACCEPTABLE. IF THE MANUFACTURER OF ROOF CURB CAN NOT PROVIDE A PITCHED ROOF CURB DUE TO THE EXCESSIVE SLOPE OF THE ROOF, PROVIDE A STRUCTURAL LEVELING PLATFORM, THEN INSTALL A LEVEL ROOF CURB. COORDINATE THIS EFFORT WITH WORK OF ALL OTHER TRADES INVOLVED.

HEAT PUMP (SIDEWALL DISCHARGE) - ROOF MOUNTED DETAIL

3 NOT TO SCALE



IMPORTANT NOTES:

1– ENTIRE RUN OF ROOFTOP SUPPLY AND RETURN AIR DUCTWORK SHALL BE DOUBLE WALL CONSTRUCTION AS SHOWN ON THIS DETAIL.

2– SUPPLY AND RETURN AIR ROOFTOP DUCTWORK SHALL HAVE A STANDING SEAM ROOF SYSTEM AND PROVIDED WITH MASTIC MATERIAL TO PROVIDE SLOPE AND PROTECTION FROM STANDING WATER.

3– COMBINED INSULATION R VALUE OF THE DUCT LINERS SHALL BE EQUAL TO OR EXCEED R 8.0.

4– PROVIDE STANDING SEAM PITCHED ROOF OVER THE HORIZONTAL RUN OF THE ROOFTOP DUCTWORK. PITCHED POCKETS ARE NOT ALLOWED. CONSTRUCT DUCTWORK SUCH THAT POSITIVE DRAINAGE FROM THE TOP OF THE DUCTWORK IS PROVIDED AND THE DUCTWORK JOINTS DO NOT IMPEDE THE WATER RUN-OFF.

5– AVOID WATER RUN-OFF FROM ONE DUCT TO TOP OF OTHER DUCTWORK OR EQUIPMENT.

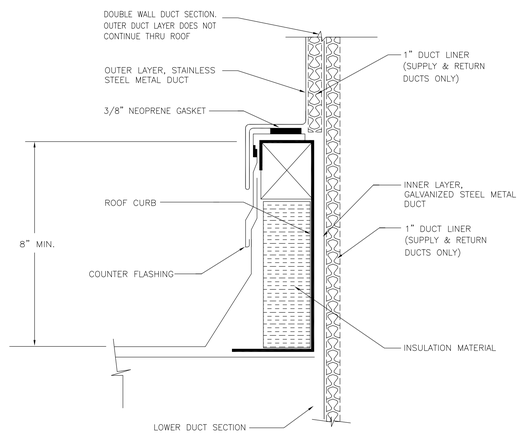
6– ALL DUCTWORK SHALL BE TESTED FOR AIR LEAKAGE BASED ON THE REQUIREMENTS NOTED IN SPECIFICATION.

7– CONSTRUCT DOUBLE WALL DUCTWORK PER LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" CHAPTER 8" DOUBLE WALL DUCT CONSTRUCTION".

8– DUCT SILENCER SHALL ALSO BE CONSTRUCTED AS DOUBLE WALL IN ORDER TO PROVIDE SMOOTH CONNECTION TO ADJOINING DUCTWORK, AND COMPLY WITH R-8 INSULATION REQUIREMENT.

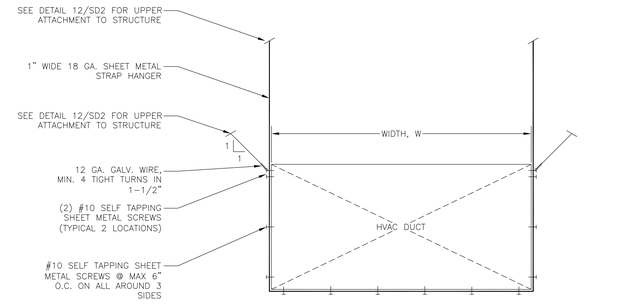
DOUBLE WALL ROOFTOP DUCT CONSTRUCTION AND ROOF PENETRATION DETAIL

5 NOT TO SCALE



NOTE:

SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON CURB AND WATER-PROOFING.

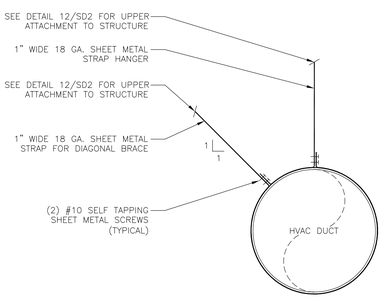


LOWER HANGER ATTACHMENT

NOTE:
1. THE MORE RESTRICTIVE SPACING SHALL BE PROVIDED WHERE REQUIRED PER THE OPM BASIS OF DESIGN.

CONCEALED RECTANGULAR DUCTWORK - UP TO 40" WIDE DETAIL

6 NOT TO SCALE

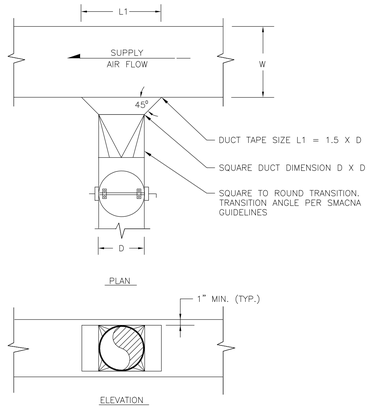


LOWER HANGER ATTACHMENT

NOTE:
1. THE MORE RESTRICTIVE SPACING SHALL BE PROVIDED WHERE REQUIRED PER THE OPM BASIS OF DESIGN.

ROUND DUCTWORK - MAX. 24" DIA. DETAIL

7 NOT TO SCALE

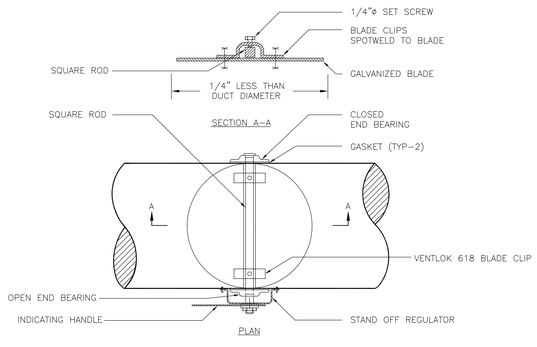


NOTES:
1. PROVIDE MANUAL VOLUME DAMPER FOR ALL BRANCH DUCTWORK.

RECTANGULAR TO ROUND BRANCH TAP DETAIL

8 NOT TO SCALE

DIAMETER	4"-20"	22"-30"	32"-40"	
FRAME	20 GA.	20 GA.	20 GA.	GALV. STEEL
BLADES	16 GA.	16 GA.	10 GA.	GALV. STEEL
AXLES	3/8" ⌑	1/2" ⌑	3/4"ø	FULL LENGTH PLATED STEEL AXLE
REGULATOR	VENTLOK 635	VENTLOK 555	VENTLOK 560	FOR NON-INSULATED DUCT
REGULATOR W/ INSUL	VENTLOK 639	VENTLOK 555	VENTLOK 560	2" STANDOFF BRACKET
END BEARING	HIVEL 609	HIVEL 609	STEEL SLEEVE	CLOSED END
END BEARING	VENTLOK 607	VENTLOK 607	STEEL SLEEVE	OPEN END



ROUND VOLUME DAMPER DETAIL

9 NOT TO SCALE

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FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

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REGISTERED PROFESSIONAL ENGINEER MATTHEW M. PEZZETTI No. M 28933 Exp. 6-30-2023 MECHANICAL

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

M0-1.2

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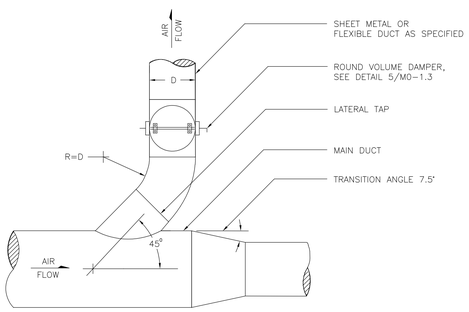
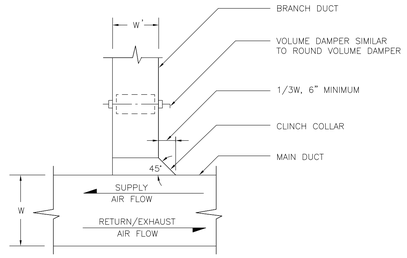


NOTES:
1. PROVIDE MANUAL VOLUME DAMPER FOR ALL BRANCH DUCTWORK.
2. USE FOR SYMBOL WHERE BRANCH DUCT IS ROUND FROM ROUND MAIN AND BRANCH DUCT AIR QUANTITY IS 50% OR LESS OF TOTAL AIR FLOW.

CIRCULAR DUCT LATERAL TAP W/ VOLUME DAMPER DETAIL

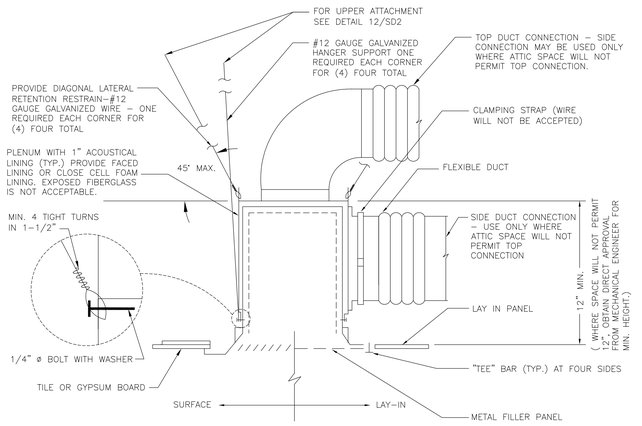
1 NOT TO SCALE



NOTES:
1. PROVIDE MANUAL VOLUME DAMPER FOR ALL BRANCH DUCTWORK.
2. USE FOR SYMBOL WHERE BRANCH DUCT IS ROUND FROM ROUND MAIN AND BRANCH DUCT AIR QUANTITY IS 50% OR LESS OF TOTAL AIR FLOW.
3. DEPTH AT "W'" MUST BE AT LEAST 2" LESS THAN DEPTH AT "W"

RECTANGULAR DUCT ANGULAR TAP W/ VOLUME DAMPER DETAIL

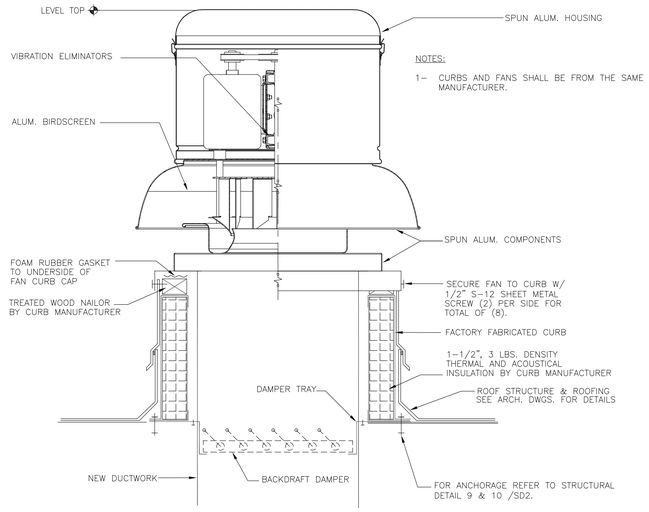
2 NOT TO SCALE



NOTE:
FOR GRILLES/DIFFUSERS IN LOCATIONS WHERE THERE ARE HARD LID CEILINGS, FLEXIBLE DUCT CONNECTIONS ARE NOT ACCEPTABLE.

SUPPLY/RETURN DIFFUSER/GRILLE INSTALLATION DETAIL

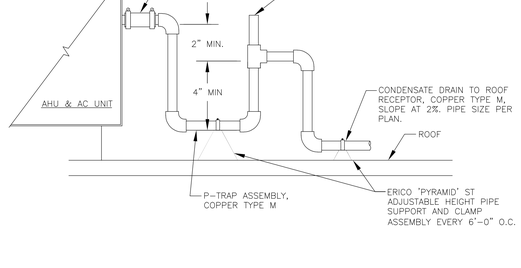
3 NOT TO SCALE



ROOF MOUNTED EXHAUST FAN DETAIL

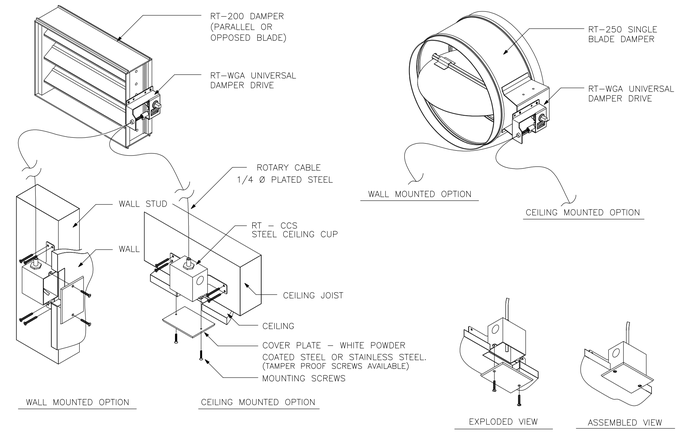
4 NOT TO SCALE

CONDENSATE PIPE SIZING TABLE	
EQUIPMENT CAPACITY	PIPE SIZE DIAMETER
UP TO 20 TONS	3/4"ø
21 TO 40 TONS	1"ø
41 TO 90 TONS	1-1/4"ø
91 TO 125 TONS	1-1/2"ø
126 TO 250 TONS	2"ø



CONDENSATE DRAIN PIPE DETAIL

5 NOT TO SCALE



MANUAL VOLUME DAMPER REMOTE CONTROL DETAIL

6 NOT TO SCALE

7 NOT TO SCALE

8 NOT TO SCALE

9 NOT TO SCALE

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTRELLA
Exp. No. M 29927
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

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Project Name:	Fillmore HS	NRCC-PRF-01-E	Page 1 of 14
Project Address:	555 Central Ave. Fillmore 93015	Calculation Date/Time:	12:44, Fri, Jan 22, 2021
Input File Name:	FillmoreHS.cibd19x		

A. GENERAL INFORMATION

1.	Project Location (city)	Fillmore	8.	Standards Version	Compliance2019
2.	CA Zip Code	93015	9.	Compliance Software (version)	EnergyPro 8.2
3.	Climate Zone	9	10.	Weather File	VAN-NUYS_722886_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	6,035 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	ExistingAlteration
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☐ Performance ☒ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
				Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☒ Performance ☐ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	*NRCC -LTS-E*
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance ☒ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
				Electrical Power Distribution §110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning §120.8	*NRCC-CXR-E is required*
				Solar Ready §110.10	*NRCC-SRA-E is required*

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	4.60	4.64	-0.04
Space Cooling	96.69	71.84	24.85
Indoor Fans	108.37	69.71	38.66
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	11.57	6.77	4.80
Indoor Lighting	44.85	44.85	--
ENERGY STANDARDS COMPLIANCE TOTAL	**266.08**	**197.81**	**68.27 (25.7%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	108.73	108.73	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**374.81**	**306.54**	**68.3 (18.2%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

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C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	1.1	--	13.5	--	--
Space Cooling	12.8	9.2	3.6	--	--	--
Indoor Fans	21.9	14.4	7.5	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	1.8	--	--	10.8	22.6	-11.8
Indoor Lighting	9.1	9.1	0.0	--	--	--
Compliance Total	**45.6**	**33.8**	**11.8**	**24.3**	**22.6**	**1.7**
Receptacle	22.1	22.1	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**67.7**	**55.9**	**11.8**	**24.3**	**22.6**	**1.7**

C4. UNMET LOAD HOURS

This Section Does Not Apply

D. EXCEPTIONAL CONDITIONS

E. HERS VERIFICATION

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below.

F. ADDITIONAL REMARKS

This Section Does Not Apply

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	732 ft²	144 ft²	19.7%
East-Facing[2]	792 ft²	358 ft²	45.2%
South-Facing[3]	1,152 ft²	0 ft²	00.0%
West-Facing[4]	336 ft²	0 ft²	00.0%
Total	**3,012 ft²**	**502 ft²**	**16.7%**
Roof	6,035 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G2. CRRC ROOFING PRODUCT SUMMARY

This Section Does Not Apply

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status[1]	Description of Assembly Layers
Existing Slab On Grade8	UndergroundFloor	4362	NA	0	NA	F-Factor: 0.730	E	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0
Default Roof 1978 to Pres10	Roof	6035	Wood	19	NA	U-Factor: 0.055	E	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 3.5in., R-19 Gypsum Board - 1/2 in.

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status[1]	Description of Assembly Layers
Default Wall 1978 to 199112	ExteriorWall	3012	Wood	11	NA	U-Factor: 0.110	E	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.
R-19 Wall14	InteriorWall	2364	Wood	19	NA	U-Factor: 0.069	E	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.
Slab On Grade32	UndergroundFloor	1673	NA	0	NA	F-Factor: 0.730	E	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0

[1] Status: N - New, A – Altered, E – Existing

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Metal Door20	0.700	E

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	144	1.19	0.83	0.77	E
Single Non Metal Clear	VerticalFenestration FixedWindow NonMetalFraming	Default Performance	SiteBuilt	358	1.04	0.76	0.77	E

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

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G6. OVERHANG DETAILS

This Section Does Not Apply

G7. FIN DETAILS

This Section Does Not Apply

H. HVAC SYSTEM SUMMARY

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status[5]
AC-1	SZHP (Split3Phase)	1	62	Yes	15	HSPF-8.80	57	SEER-16.50 / EER-13.00	N
AC-2	SZHP (Split3Phase)	1	62	Yes	15	HSPF-8.80	57	SEER-16.50 / EER-13.00	N
AC-3	SZHP (Split3Phase)	1	62	Yes	15	HSPF-8.80	57	SEER-16.50 / EER-13.00	N

[1] Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan					
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Status[5]
AC-1	SZHP	398	1900	1.000	843.5	ConstantVolume	NA	NA	NA	NA	FixedDryBulb	N
AC-2	SZHP	256	1900	1.000	843.5	ConstantVolume	NA	NA	NA	NA	FixedDryBulb	N
AC-3	SZHP	251	1900	1.000	843.5	ConstantVolume	NA	NA	NA	NA	FixedDryBulb	N

[1] Status: N - New, A – Altered, E – Existing

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H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
							Pumps				
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Qty	GPM	HP	VSD (Y/N)	Status[1]

[1] Status: N - New, A – Altered, E – Existing

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
AC-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Fixed Drybulb Economizer No Supply Air Temp. Control
AC-2	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Fixed Drybulb Economizer No Supply Air Temp. Control
AC-3	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Fixed Drybulb Economizer No Supply Air Temp. Control
Library1 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Career Center 807	Education - Media center	0	24.00	0	398	0	2654	NA
2-Reading Room 801	Office - Office space	0	15.00	0	256	0	1708	NA

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H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
3-Reading Room 801	Office - Office space	0	16.00	0	251	0	1673	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	No

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Career Center 807-Trm	1-Career Center 807	Uncontrolled	NA	NA	1900	NA	0.00	NA	NA	NA	☐
2-Reading Room 801-Trm	2-Reading Room 801	Uncontrolled	NA	NA	1900	NA	0.00	NA	NA	NA	☐
3-Reading Room 801-Trm	3-Reading Room 801	Uncontrolled	NA	NA	1900	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

I. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

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I1. DHW EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
Standard Gas 50 gal or Le2	Gas	Storage	1	50.00	40	UEF: 0.60	NA	SBLF: NA	NA	NA

I2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

I3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

J. COVERED PROCESS SUMMARY

This Section Does Not Apply

K. INDOOR LIGHTING SUMMARY

This Section Does Not Apply

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☒	☐	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	☐	☐
Indoor Lighting	☒	☐	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Covered Processes	☐	☐

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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐
Indoor Lighting	☒	☐	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☐	☒	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Covered Process	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls	☐	☐
	☐	☒	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control	☐	☐
	☐	☒	NRCA-PRC-14-F – Lab Exhaust Ventilation System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐

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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Mechanical	☒	☐	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☒	☐	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☒	☐	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☒	☐	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☒	☐	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☐	☒	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐	☒	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☒	☐	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☐	☒	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

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N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Mechanical	☒	☐	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Matthew Pezeshki	Signature:
Company: Pezeshki Engineering, Inc.	
Address: 1920 E. Warner Ave, Suite 3-H	Signature Date: 2021-01-22
City/State/Zip: Santa Ana CA 92705	CEA/ HERS Certification Identification (if applicable): M29925
Phone: 714-884-3803	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Envelope Designer Name: David Jordan Smith	Signature: NOT IN SCOPE	
Company: Westgroup Designs		
Address: 19520 Jamboree Rd, Suite 100	Date Signed:	
City/State/Zip: Irvine CA 92612		
Phone:	Title:	License #: C-20495
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Matthew M. Pezeshki	Signature:	
Company: Pezeshki Engineering Inc.		
Address: 1920 E. Warner Ave., Suite 3-H	Date Signed: 01/26/2021	
City/State/Zip: Santa Ana CA 92705		
Phone:	Title: Mechanical Engineer	License #: M29925

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER MATTHEW M. PEZESHKI No. M 29925 Exp. 06-30-2022 MECHANICAL STATE OF CALIFORNIA

SHEET TITLE:

TITLE 24 CALCULATIONS

SHEET NUMBER:

M0-1.4

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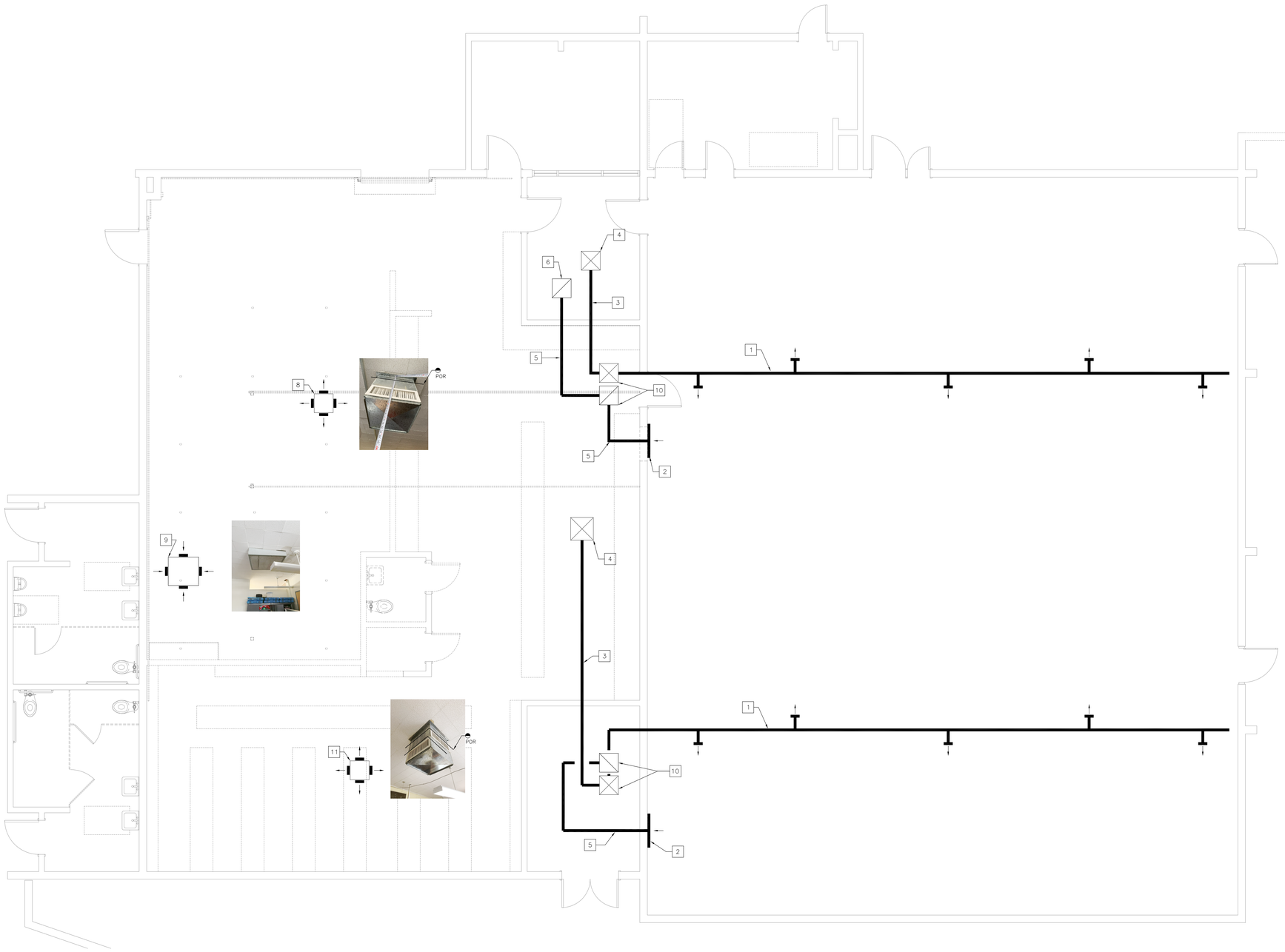


LIBRARY - MECHANICAL DEMOLITION PLAN | 1 | 1/4" = 1'-0"

DEMOLITION NOTES

1– EXISTING EXPOSED SUPPLY AIR DUCTWORK TO REMAIN IN ITS ENTIRETY. WRAP THE ENTIRE LENGTH OF THE EXPOSED DUCT IN PROTECTIVE PLASTIC WRAP AND PROTECT IN PLACE DURING CONSTRUCTION.

2– EXISTING SIDE WALL RETURN GRILLE TO REMAIN. COVER THE ENTIRE FACE OF THE GRILLE WITH PROTECTIVE PLASTIC WRAP AND PROTECT IN PLACE DURING CONSTRUCTION.

3– EXISTING BRANCH SUPPLY AIR DUCT INSIDE THE CEILING SPACE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

4– EXISTING CEILING SUPPLY AIR DIFFUSER TO BE REMOVED AND REPLACED WITH NEW DIFFUSER. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.

5– EXISTING BRANCH RETURN AIR DUCT INSIDE THE CEILING SPACE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

6– EXISTING CEILING RETURN AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW GRILLE. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.

7– REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED DUCT WORK UP THROUGH ROOF. PREPARE AREA OF REMOVAL TO RECEIVE NEW DUCTWORK AND GRILLE. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.

8– REMOVE EXISTING SUPPLY AIR CONCENTRIC PLENUM UP TO POINT OF REMOVAL. PREPARE AREA OF REMOVAL TO RECEIVE NEW DUCTWORK. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.

9– REMOVAL EXISTING RETURN AIR GRILLE. PREPARE AREA OF REMOVAL TO RECEIVE NEW GRILLE. SEE RENOVATION FLOOR PLAN FOR ADDITIONAL INFORMATION.

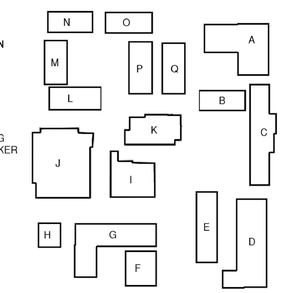
10– EXISTING SUPPLY AND RETURN AIR DUCT RISER TO REMAIN AND CONNECT TO NEW HP UNIT ON ROOF. FOR ADDITIONAL INFORMATION SEE RENOVATION ROOF PLAN.

11– REMOVE EXISTING SUPPLY AIR PLENUM AND CAP DUCT AIR TIGHT UNDER ROOF LINE. SEAL DUCT CAP AIR TIGHT ALL AROUND.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PEARSON
No. M 29437
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
LIBRARY MECHANICAL DEMOLITION PLAN

SHEET NUMBER:
MB1-1.1

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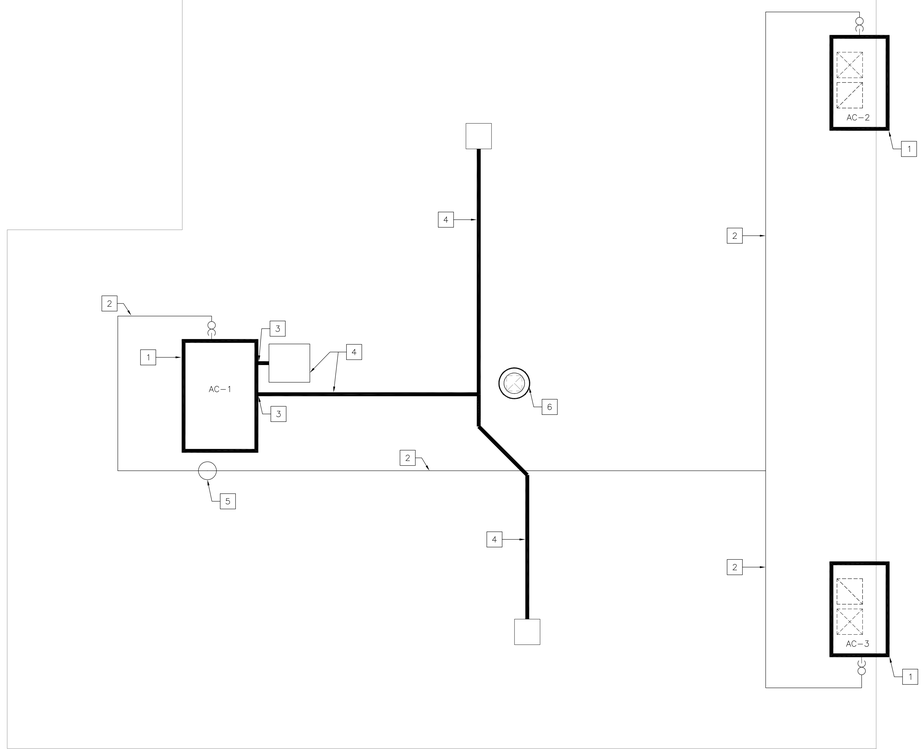

LIBRARY - MECHANICAL DEMOLITION ROOF PLAN | 1 | 1/4" = 1'-0"

DEMOLITION NOTES

1– REMOVE EXISTING ROOF MOUNTED PACKAGE HEAT PUMP, AND ASSOCIATED ROOF CURB IN ITS ENTIRETY. DISCONNECT ALL UTILITY CONNECTIONS AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR INSTALLATION OF NEW HEAT PUMP. PREPARE AREA OF REMOVAL TO RECEIVE NEW UNIT. SEE RENOVATION ROOF PLAN FOR ADDITIONAL INFORMATION.

2– REMOVE EXISTING CONDENSATE DRAIN PIPING AND ASSOCIATED ROOF SUPPORTS IN ITS ENTIRETY. PREPARE AREA OF REMOVAL TO RECEIVE NEW PIPING. SEE RENOVATION ROOF PLAN FOR ADDITIONAL INFORMATION

3– DISCONNECT EXISTING SUPPLY AND RETURN DUCTWORK FROM EXISTING UNIT. PROTECT DUCTWORK IN PLACE DURING CONSTRUCTION.

4– EXISTING ROOFTOP SUPPLY AND RETURN DUCTWORK TO REMAIN IN ITS ENTIRETY. PROTECT IN PLACE DURING CONSTRUCTION. PREPARE DUCTWORK TO CONNECT TO NEW PACKAGED HEAT PUMP UNIT, SEE RENOVATION ROOF PLAN FOR ADDITIONAL INFORMATION.

5– EXISTING ROOF RECEPTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

6– REMOVE EXISTING EXHAUST FAN AND ASSOCIATED ROOF CURB IN ITS ENTIRETY. DISCONNECT ALL UTILITY CONNECTIONS AND DUCTWORK. PREPARE AREA OF REMOVAL AND MODIFY EXISTING DUCTWORK TO RECEIVE NEW UNIT. SEE RENOVATION ROOF PLAN FOR ADDITIONAL INFORMATION.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
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E. SOCIAL STUDIES
F. METAL SHOP
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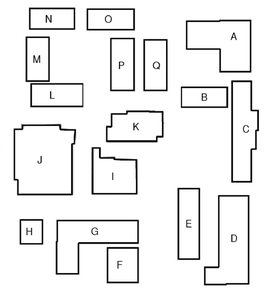

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PEZESHKI
No. M 29212
CIVIL
STATE OF CALIFORNIA

SHEET TITLE: **LIBRARY MECHANICAL DEMOLITION ROOF PLAN**

SHEET NUMBER: MB1-1.2

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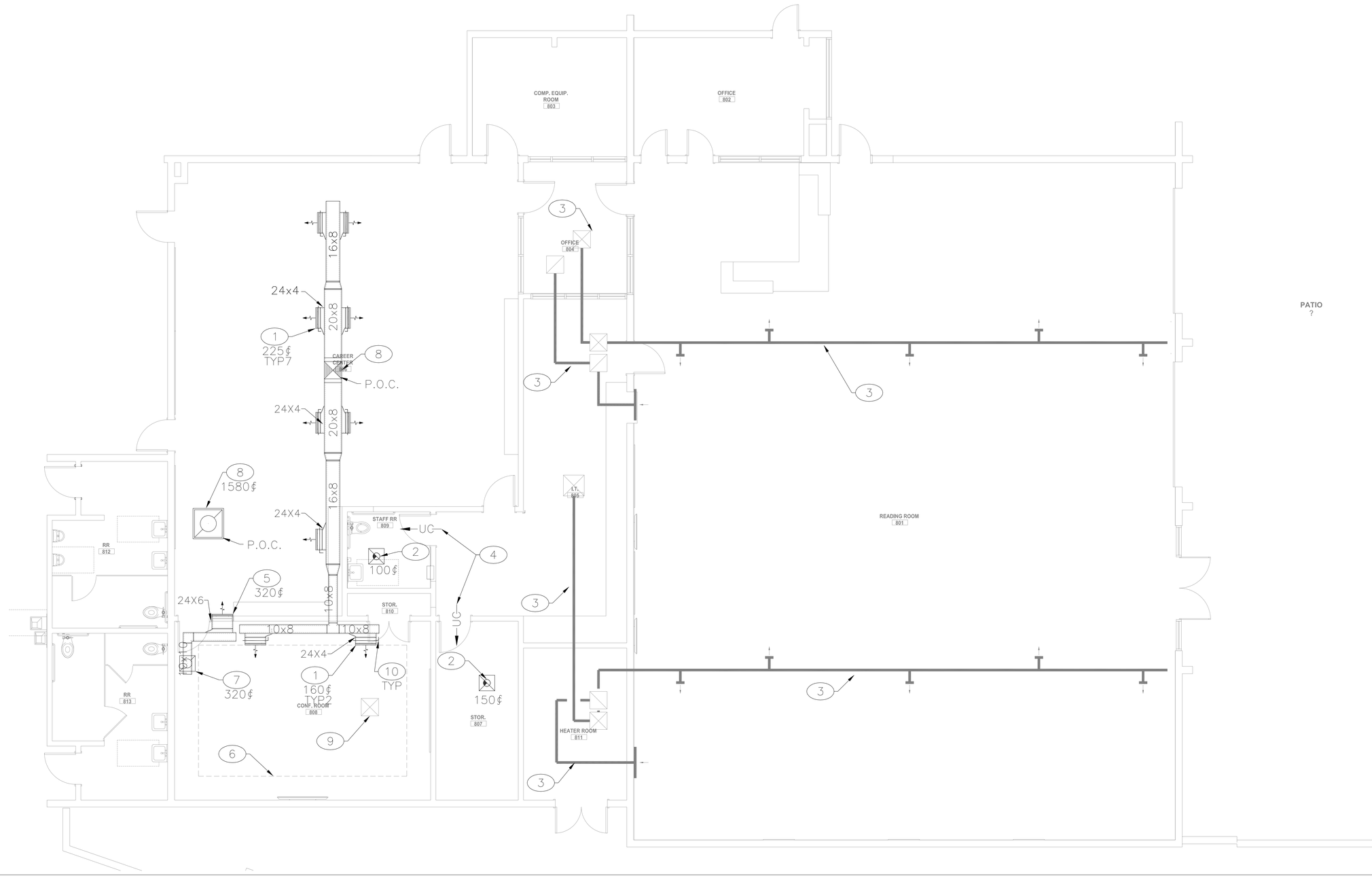

PLAN NOTES

1– 24"x4" LINEAR BAR ALUMINUM SA LINEAR BAR GRILLE MODEL 1600 BY KRUEGER, FRAME STYLE "R", 15° BLADE DEFLECTION, ¾" BAR SPACE WITH NO SCREW HOLES AND NO DAMPER.

2– 8"ø EXHAUST AIR DUCT UP AND TRANSITION IN RISE TO EF UNIT OPENING SIZE UP THROUGH ROOF TO EF UNIT ON ROOF.

3– EXISTING AIR DISTRIBUTION SYSTEM TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. SEE DEMOLITION FLOOR PLAN FOR ADDITIONAL INFORMATION.

4– PROVIDE 1" DOOR UNDERCUT. COORDINATE WITH OTHER TRADES PRIOR TO DOOR INSTALLATION.

5– 24"x6" LINEAR BAR ALUMINUM RA LINEAR BAR GRILLE MODEL 1600 BY KRUEGER, FRAME STYLE "R", 15° BLADE DEFLECTION, ¾" BAR SPACE WITH NO SCREW HOLES AND NO DAMPER.

6– ARCHITECTURAL SOFFIT.

7– 24X24 RA GRILLE FOR 320 CFM.

8– 30"X30" RA GRILLE FOR 1,580 CFM. PROVIDE NEW RA PLENUM AND CONNECT TO EXISTING RA DUCT UP THRU ROOF AT POC. SEE DEMOLITION PLAN FOR ADDITIONAL INFORMATION.

9– EXISTING CAPPED SA DUCT TIGHT UNDER ROOF. SEE DEMOLITION FLOOR PLAN FOR ADDITIONAL INFORMATION.

10– 10"X10" EA GRILLE FOR 100 CFM.

11– FOR ALL MANUAL VOLUME DAMPERS INSTALLED ABOVE HARD LID CEILINGS, PROVIDE MANUAL VOLUME DAMPER REMOTE CONTROL AS MANUFACTURED BY METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL # RT-250 SERIES III FOR DUCTS AND MODEL RT-200 SP/CC FOR RECTANGULAR DUCT APPLICATIONS. PROVIDE GUIDE CABLE OF REQUIRED LENGTH, AND RT-CCM 1"ø PAINTABLE THIN PROFILE CEILING OR WALL CUP AND COVER PLATE WITH PERMANENT LABEL TO IDENTIFY THE DAMPER TO THE CORRESPONDING ROTO-TWIST OPERATOR. SUBMIT ON PROPOSED LOCATIONS OF CEILING CUPS FOR ARCHITECT / OWNERS APPROVAL PRIOR TO COMMENCEMENT OF WORK. SEE DETAIL 6/MO-1.3 FOR ADDITIONAL INFORMATION.

12– 20"X20"X12" TALL SA PLENUM. CONNECT TO EXISTING DUCT THROUGH ROOF AT POC. SEE DEMOLITION PLAN FOR ADDITIONAL INFORMATION.

KEY PLAN

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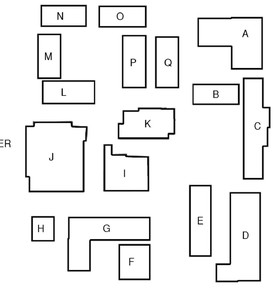

LIBRARY - MECHANICAL IMPROVEMENT PLAN | 1 | 1/4" = 1'-0"

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REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTOTNIK
No. M 29823
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
LIBRARY MECHANICAL IMPROVEMENT PLAN

SHEET NUMBER:
MB2-1.1

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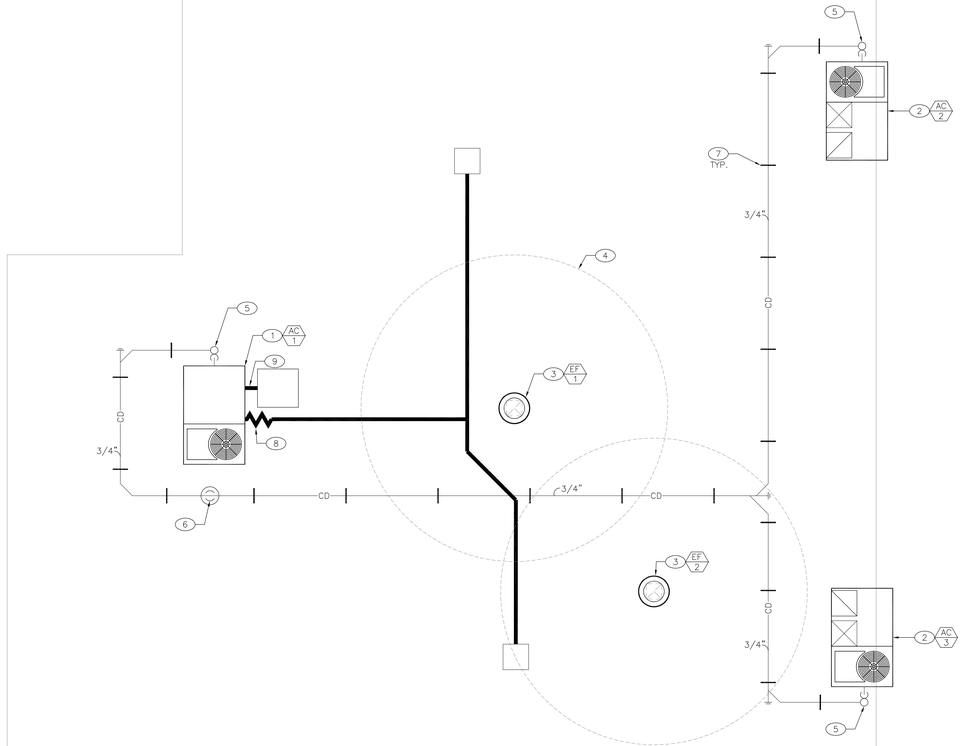

PLAN NOTES

1– INSTALL NEW HP UNIT AND ASSOCIATED ROOF CURB. CONNECT TO EXISTING SUPPLY AND RETURN ROOFTOP DUCTWORK. SEE SCHEDULES AND DETAIL 2/MO–1.2 FOR ADDITIONAL INFORMATION.

2– INSTALL NEW HP UNIT AND ASSOCIATED ROOF CURB. CONNECT TO EXISTING SUPPLY AND RETURN BELOW ROOF LINE. SEE SCHEDULES AND DETAIL 3/MO–1.2 FOR ADDITIONAL INFORMATION.

3– INSTALL NEW EXHAUST FAN AND ASSOCIATED ROOF CURB. CONNECT TO EXISTING EXHAUST AIR DUCT. SEE SCHEDULES AND DETAIL 9/M021 FOR ADDITIONAL INFORMATION.

4– ALL EXHAUST FANS TO MAINTAIN A 10'–0" MIN. CLEARANCE FROM ALL OUTSIDE AIR INTAKES (TYP.).

5– 3/4" COPPER TYPE "M" CONDENSATE DRAIN PIPE COMPLETE WITH TRAP AND VENT. EXTEND SERVICE AS INDICATED. SEE DETAIL 5/MO–1.3.

6– DISCHARGE 3/4" CD INTO EXISTING ROOF DRAIN COMPLETE WITH LEGAL AIR GAP. PROVIDE ERICO "PYRAMID" PIPE SUPPORTS SECURED TO ROOF.

7– ERICO PYRAMID ST PIPE SUPPORT WITH PIPE CLAMP EVERY 6'–0" O.C. MAX. SECURE TO ROOF. ADJUST HEIGHT FOR 2% SLOPE TO ROOF RECEPTOR.

8– TRANSITION EXISTING SA DUCT TO UNIT SIDE DISCHARGE OPENING SIZE AND CONNECT TO UNIT WITH FLEX CONNECTOR. PROVIDE RAIN SHIELD, SEE DETAILS 2/MO–1.2 AND 9/M022 FOR ADDITIONAL INFORMATION.

9– TRANSITION EXISTING RA DUCT TO UNIT SIDE INTAKE OPENING SIZE AND CONNECT TO UNIT WITH FLEX CONNECTOR. PROVIDE RAIN SHIELD, SEE DETAILS 2/MO–1.2 AND 9/M022 FOR ADDITIONAL INFORMATION.

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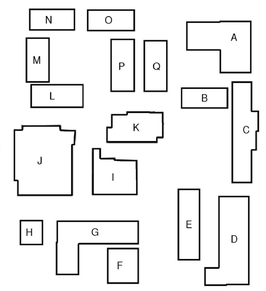

LIBRARY - MECHANICAL IMPROVEMENT ROOF PLAN | 1 | 1/4" = 1'-0"

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTRELLA
No. M 29927
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
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PLUMBING ABBREVIATIONS AND SYMBOLS LIST

PLUMBING ABBREVIATIONS

ABV	ABOVE
ABV CLG	ABOVE CEILING
AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
@	AT
BEL	BELOW
BLV	BALL VALVE
CD	CONDENSATE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
COP	CLEANOUT PLUG
CONC	CONCRETE
CONN	CONNECT OR CONNECTION
CONT	CONTINUE OR CONTINUATION
CW	COLD WATER
DN	DOWN
DR	DRAIN
ELEC	ELECTRICAL
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FLR	FLOOR
FPM	FEET PER MINUTE
FR	FROM
FT	FEET
G	GAS–LOW PRESSURE
GA	GAUGE
GAL	GALLON
GC	GAS COCK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GR	GRADE
GV	GATE VALVE
H	HIGH
HDR	HEADER
HW	HOT WATER
IE	INVERT ELEVATION
KW	KILOWATT
LBS	POUNDS
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
MPG	GAS–MEDIUM PRESSURE
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OPWT	OPERATING WEIGHT
PG	PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
℄	PROPERTY LINE
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI GAUGE
PT	PLUGGED TEE
PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
PVC	POLYVINYL CHLORIDE
PW	PLUGGED WYE
REQ'D	REQUIRED
RI&C	ROUGH–IN AND CONNECT
RPM	REVOLUTIONS PER MINUTE
S	SINK
SHT	SHEET
SOV	SHUT OFF VALVE
SPEC	SPECIFICATION
SQ. FT.	SQUARE FEET
STL	STEEL
STR	STRAINER
TEMP	TEMPERATURE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UN	UNION
UTR	UP THRU ROOF
V	VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WIDE OR WASTE
W/	WITH
WH	WATER HEATER
W/O	WITHOUT
WTR	WATER
WCO	WALL CLEANOUT
WT	WEIGHT
YB	YARDBOX

PLUMBING SYMBOLS

- PIPING BRANCH
- PIPE DROP
- PIPE RISE
- RISER OR DROP
- BRANCH – TOP CONNECTION
- BRANCH – BOTTOM CONNECTION
- UNION (SCREWED)
- PLUGGED TEE
- FLANGED CONNECTION
- CAP ON END OF PIPE
- RED BRASS NIPPLE
- VALVE IN RISER
- GATE VALVE OR SHUT–OFF VALVE
- PRESSURE – TEMPERATURE RELIEF VALVE
- GAS COCK
- WATER HAMMER ARRESTER
- CHECK VALVE, SWING OR LIFT
- SLOPE – IN DIRECTION OF ARROW
- FLOW – IN DIRECTION OF ARROW
- GAS/WATER SHUT–OFF VALVE IN YARDBOX
- FLOOR CLEANOUT
- CLEANOUT IN YARDBOX – TRAFFIC WEIGHT
- WALL CLEANOUT
- HOSE BIBB WITH VACUUM BREAKER
- CAP PIPING FOR RECONNECTION

- SANITARY WASTE ABOVE GRADE
- SANITARY WASTE BELOW GRADE
- SANITARY VENT ABOVE GRADE
- SANITARY VENT BELOW GRADE
- STORM DRAIN ABOVE GRADE
- STORM DRAIN BELOW GRADE
- OVERFLOW DRAIN
- INDIRECT DRAIN
- CONDENSATE DRAIN
- DOMESTIC COLD WATER ABOVE GRADE
- DOMESTIC COLD WATER BELOW GRADE
- DOMESTIC HOT WATER ABOVE GRADE
- DOMESTIC HOT WATER BELOW GRADE
- GAS – LOW PRESSURE
- EXISTING GAS – LOW PRESSURE
- GAS – MEDIUM PRESSURE
- EXISTING GAS – MEDIUM PRESSURE
- HOT WATER RETURN ABOVE GRADE
- EXISTING PIPING TO BE ABANDONED
- EXISTING PIPING TO BE REMOVED

- (#) REPRESENTS REMODEL NOTES
- (# / #) REPRESENTS DETAIL NUMBER / REPRESENTS PLUMBING SHEET
- (# / #)(#) REPRESENTS PLUMBING FIXTURE / REPRESENTS QUANTITY

PIPE MATERIAL SCHEDULE

AG: ABOVE GRADE
BG: BELOW GRADE

SERVICES		C.I. NO-HUB	POLYPROPYLENE	COPPER DWV	SCH 40 BLACK STEEL	SDR-35	COPPER TYPE M	COPPER TYPE L	COPPER TYPE K	SCH 10 BLACK STEEL	YELLOW PE PIPE	DUCTILE IRON	REMARKS
WATER	AG						●						IAPMO IS 3–2006
	BG							●					IAPMO IS 3–2006 WRAPPED
WASTE	AG	●											IAPMO IS 6–2006
	BG	●											IAPMO IS 6–2006
VENT	AG	●											IAPMO IS 6–2006
	BG	●											IAPMO IS 6–2006
INDIRECT WASTE	AG						●						IAPMO IS 3–2006 CD
	BG						●						IAPMO IS 3–2006 CD WRAPPED
GAS	AG				●								IAPMO IS 13–2006 GALV. EXPOSED
	BG										●		IAPMO IS 12–2006

1. SYMBOLS AND ABBREVIATIONS ARE SHOWN FOR REFERENCE; NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.
2. ALL NOTES ON THIS SHEET REMAIN PART OF THE CONTRACT DOCUMENTS.

GENERAL NOTES

1.– THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2.– FOR BUILDING LOCATIONS, FINISH FLOOR, AND GRADE ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.

3.– BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, PRIOR TO START OF ANY TRENCHING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

4.– FOR SERVICE CONNECTIONS TO INDIVIDUAL FIXTURES REFER TO SPECIFICATIONS.

5.– ALL PLUGGED TEES AND PLUGGED WYES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.

6.– ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM, OR 3 FEET ABOVE, ANY OUTSIDE AIR INTAKES.

7.– THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND THE ELECTRICAL LIGHTING LAYOUT.

8.– EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS

9.– CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A 12" SECTION OF RED BRASS PIPE.

10.– ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPING IN CONCRETE WALLS OR FLOORS SHALL BE DONE BY CORE DRILLING EQUIPMENT.

11.– THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS.

12.– ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT–DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

13.– COORDINATE LOCATION OF GAS AND CONDENSATE CONNECTIONS ON MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

14.– DURING THE PROGRESS OF WORK THE PLUMBING CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK–UP POINTS. AS–BUILTS SHALL BE GIVEN TO THE OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.

15.– INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN PIPING PERMITTED OVER OR UNDER ELECTRICAL PANELS.

16.– ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT DSA RULES AND REGULATIONS AS SET FORTH BY THE AUTHORITY HAVING JURISDICTION.

17.– SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS WITH PREFORMED INSULATED FITTING COVERS (TRUEBRO OR EQUAL) WITH A MAX. FLAME SPREAD RATING OF 25, MAX. SMOKE RATING OF 50 PER ASTM E–84) OFFSET P–TRAP AGAINST WALL.

18.– ALL CONDENSATE PIPING IN ATTIC SPACES SHALL BE INSULATED WITH 3/4" MICRO–LOK INSULATION OR APPROVED EQUAL. WITH A MAX. FLAME SPREAD RATING OF 25, MAX. SMOKE RATING OF 50 PER ASTM E–84 25/50.

19.– ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.

20.– ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

21.– UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW–TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

22.– BEFORE FABRICATION OR INSTALLATION THIS CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH–IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.

23.– THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO BID.

24.– ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% MIN. UNLESS OTHERWISE INDICATED.

25.– ALL VALVES, TRAP PRIMER, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON–ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

26.– BEFORE ANY USE OF WATER SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE STERILIZED BY SLOWLY FILLING THE SYSTEM WITH A WATER–CHLORINE SOLUTION CONTAINING AT LEAST FIFTY (50) PPM OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR TWENTY FOUR (24) HOURS; OR, THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER–CHLORINE SOLUTION CONTAINING AT LEAST TWO HUNDRED (200) PPM OF CHLORINE AND ALLOWED TO STAND FOR THREE (3) HOURS. FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSH WITH CLEAN POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER. THIS PROCEDURE OF FLUSHING THE SYSTEM SHALL BE REPEATED IF IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY THAT CONTAMINATION PERSIST IN THE SYSTEM.

27.– ALL ELECTRICAL DEVICES, WIRING AND CONDUITS, ETC., SERVING PLUMBING FIXTURES, INCLUDING BUT NOT LIMITED TO SENSOR OPERATED FAUCETS AND FLUSH VALVES SHALL BE INSTALLED RECESSED, PROVIDED WITH REQUIRED ACCESS PANEL AND COVER. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION, DIMENSION AND THE FINISH COLOR OR MATERIAL OF THESE PANELS.

29.– ALL PLUMBING WORK SHALL CONFORM TO 2019 CPC.

30.– UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

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

32.– THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7–10 SECTION 13.3.1 AND TABLE 13.6–1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.

33.– ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.

34.– WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWING OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND BUILDING DEPARTMENT FIELD ENGINEER.

35.– A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

SPECIAL NOTE

ALL PLUMBING DRAWINGS CONTAINED IN THIS SET SHALL DISPLAY THE DSA APPROVAL STAMP BEFORE THESE DRAWINGS CAN BE USED AS CONSTRUCTION DOCUMENTS.

COORDINATION

THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE PIPING AND OTHER WORK SPECIFIED IN THE DIVISION 22 SECTIONS OF THE SPECIFICATIONS IS TO BE LOCATED. THE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND CONFIGURATIONS REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PLACING, LOCATION AND CONNECTION OF THIS WORK IN RELATION TO THE WORK OF OTHER TRADES.

THE CONTRACTOR, SHALL EXAMINE ALL MECHANICAL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT, AND ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES FOR THEM IN PREPARING THE BID.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 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. ALL TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 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 COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHTING 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 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 2019 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 A PREAPPROVED INSTALLATION GUIDE (E.G., 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 ☐ E ☐ – OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☒ E ☐ – OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL (OPM#) #0052–13.

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FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	05/25/2021

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APP #: .....03-121233.....
AC.....FLS.....SS.....
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REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PEZESHKI
Exp. No. M 28012
Exp. 12/31/2021
STATE OF CALIFORNIA

SHEET TITLE:
PLUMBING ABBREVIATIONS AND SYMBOLS LIST

SHEET NUMBER:
P0-1.0

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20624			01/26/2021

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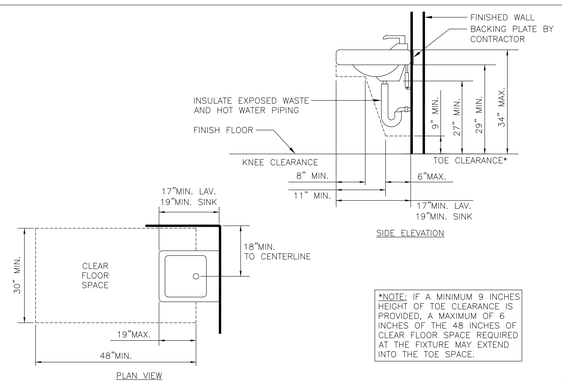

NOT TO SCALE

A.D.A. LAVATORY/ SINK COMPLIANCE DETAIL 1

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN CONNECTIONS					DESCRIPTION
		COLD WATER	HOT WATER	WASTE	VENT	OTHER	
WC 1	WATER CLOSET (ACCESSIBLE)	1"	–	4"	2"	–	AMERICAN STANDARD NO. 3461.001, "MADERA FLOWISE", FLOOR MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, EVERCLEAN AND SIPHON JET ACTION. PROVIDE SLOAN "ROYAL" NO. 111-1.28, HIGH EFFICIENCY MANUAL FLUSHOMETER VALVE, 1.28 GPF AND CHURCH NO. 295SSCT, OPEN FRONT SEAT. SET TOP OF SEAT AT 17"-19" A.F.F.
L 1	LAVATORY (ACCESSIBLE)	1/2"	1/2"	2"	1-1/2"	–	AMERICAN STANDARD NO. 0355.012, "LUCERNE", WHITE, VITREOUS CHINA, WALL HUNG, 20-1/2"x18-1/4"x6-1/2" DEEP, 4" CENTERS AND SUPPORT ARMS. PROVIDE CHICAGO NO. 3600-E39VPAB, METERING FAUCET, 0.35 GPM, McGUIRE NO. 155WC, OFF-SET GRID STRAINER, McGUIRE NO. V8090CNC, VANDAL-PROOF CHROME PLATED 17 GA, L.A. PATTERN CAST BRASS P-TRAP WITH SECURED ESCUTCHEON, CHICAGO NO. 1017-ABCP, STOP AND RIGID SUPPLY AND TRUEBRO "LAV SHIELD" COVER ENCLOSURE. SET TOP OF LAV. AT +34" MAX.
S 1	STAFF DINING SINK (ACCESSIBLE)	1/2"	1/2"	2"	1-1/2"	–	JUST NO. SLN-ADA-2019-16-A-GR-I-SSF, STAINLESS STEEL, COUNTERTOP, 20"x19"x6-1/2" DEEP, 3-HOLE PUNCHING, INTEGRA DRAIN. PROVIDE CHICAGO NO. 2300-8E34VPABCP, SWING SPOUT FAUCET, 8" CENTERS, 1.5 GPM AND SINGLE LEVER HANDLE, McGUIRE NO. 111C16G17 STRAINER, McGUIRE NO. 1000WC OFF-SET STRAINER, McGUIRE NO. V8089CNC VANDAL-PROOF CHROME PLATED L.A. PATTERN P-TRAP WITH SECURED ESCUTCHEON, CHICAGO NO. 1017-ABCP, STOPS AND RIGID SUPPLIES. SET TOP OF SINK AT +34" MAX.
DF 1	DRINKING FOUNTAIN WITH BOTTLE FILLER (ACCESSIBLE)	3/4"	–	2"	1-1/2"	–	HAWS NO. 1119, DUAL-HEIGHT, STAINLESS STEEL, 14 GA., LEAD-FREE, NON-FILTERED, NON-REFRIGERATED COMPLETE WITH MOUNTING PLATE NO. 6700, HAWS NO. 1920 BOTTLE FILLER WITH BP32 BACK PANEL AND NO. 6469 DIP TRAY, McGUIRE NO. V8090CNC, VANDAL-PROOF CHROME PLATED 17 GA, L.A. PATTERN CAST BRASS P-TRAP WITH SECURED ESCUTCHEON AND CHICAGO NO. 1017-ABCP, LOOSE KEY STOP AND RIGID SUPPLY. SEE ARCHITECTURAL DRAWINGS FOR BUBBLER HEIGHT.
IM 1	ICE MAKER	1/2"	–	–	–	–	WATER-TITE GUY GRAY NO. MIB1AB METAL BOX, FILTRINE NO. IN-10NS5 IN-LINE WATER FILTER.
WH 1	INSTANTANEOUS WATER HEATER	1/2"	1/2"	–	–	–	CHRONOMITE NO. E-70L/208, 34 AMPS, 7 KW, 208V-1ø-64°F DELTA T @ 0.75 GPM.

NOTES:
1- THE ABOVE ITEMS SHALL BE PROVIDED AND INSTALLED IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2- COORDINATE LOCATION AND ARRANGEMENT OF ACCESSIBLE FIXTURES WITH THE ARCHITECTURAL PLANS.
3- MANUAL FAUCET CONTROLS AT SINKS SHALL REQUIRE NO GREATER THAN 5 LBS. OF FORCE TO ACTIVATE CONTROLS.
4- ALL FAUCET TRIM SHALL COMPLY WITH LATEST AB1953 REQUIREMENTS.
5- THE ABOVE ITEMS SHALL COMPLY WITH THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.
6- PROVIDE PRE-FORMED INSULATED COVERS BY "TRUBRO" TO ALL EXPOSED PIPING BELOW ACCESSIBLE LAVATORY/SINK.
7- METERING MANUAL CONTROL FAUCETS SHALL REMAIN OPEN/OPERATE FOR AT LEAST 10 SECONDS FOR A.D.A. COMPLIANCE.

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DATE:.....

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REGISTRATION/SIGNATURE:
REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTOTNIK
No. M 29627
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE:
PLUMBING SCHEDULES AND DETAILS

SHEET NUMBER:
P0-1.1

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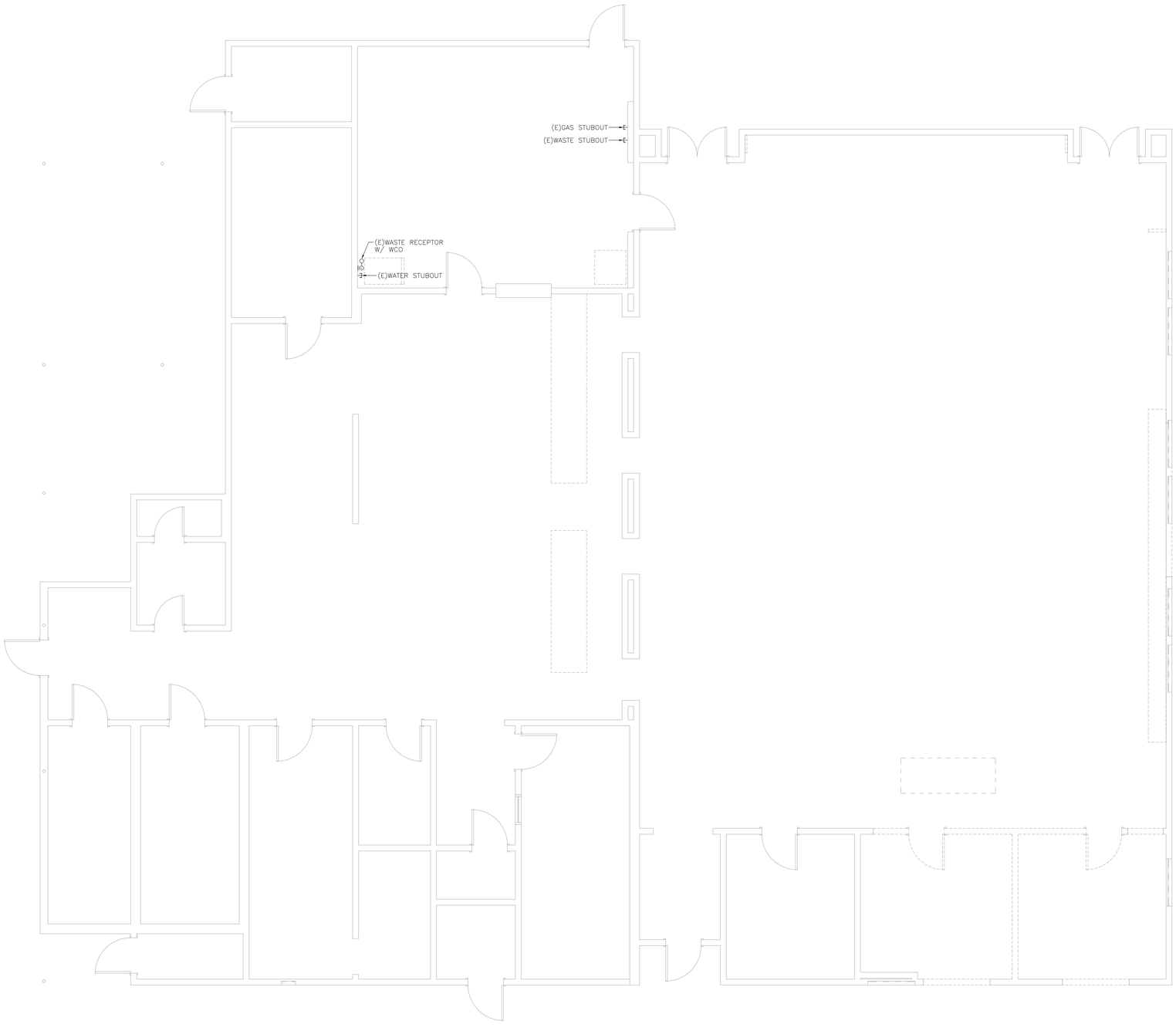


CAFETERIA - PLUMBING DEMOLITION PLAN

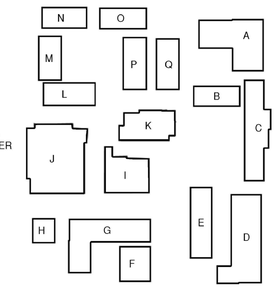
1
1/4" = 1'-0"

DEMOLITION NOTES

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTRELLA
No. M 29827
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
CAFETERIA PLUMBING DEMOLITION PLAN

SHEET NUMBER:
PA1-1.1

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PLAN NOTES

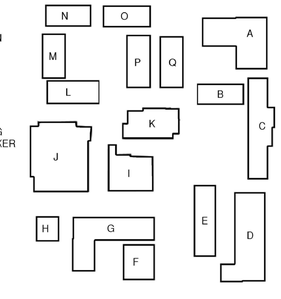
1.– PROVIDE 2" WASTE, 1–1/2" VENT AND 3/4" CW & HW.

2.– PROVIDE 1/2" CW.

3.– PO.C.– 3/4" CW TO EXISTING COLD WATER PIPING IN WALL. FIELD VERIFY PIPE SIZE AND EXACT LOCATION PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. PATCH WALL AND CLG. TO MATCH EXISTING.

4.– P.O.C.– 2" WASTE AND 1–1/2" VENT TO EXISTING WASTE AND VENT PIPING ABV. CLG. AND BEL FLR. FIELD VERIFY PIPE SIZES, EXACT LOCATIONS AND INVERT ELEVATION PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. PATCH WALL, CLG. AND FLR. TO MATCH EXISTING.

KEY PLAN



BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC

CAFETERIA - PLUMBING IMPROVEMENT PLAN | 1 | 1/4" = 1'-0"

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:

DSA PLAN CHECK	01/26/2021
DSA BACK CHECK	04/23/2021
DSA BACK CHECK	05/25/2021

REVISIONS:

DEPARTMENT OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....,FLS.....,SS.....
DATE:.....

P.T.N. _____-_____

REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTRELLA
No. M 29827
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
CAFETERIA PLUMBING IMPROVEMENT PLAN

SHEET NUMBER:
PA2-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
20624			01/26/2021

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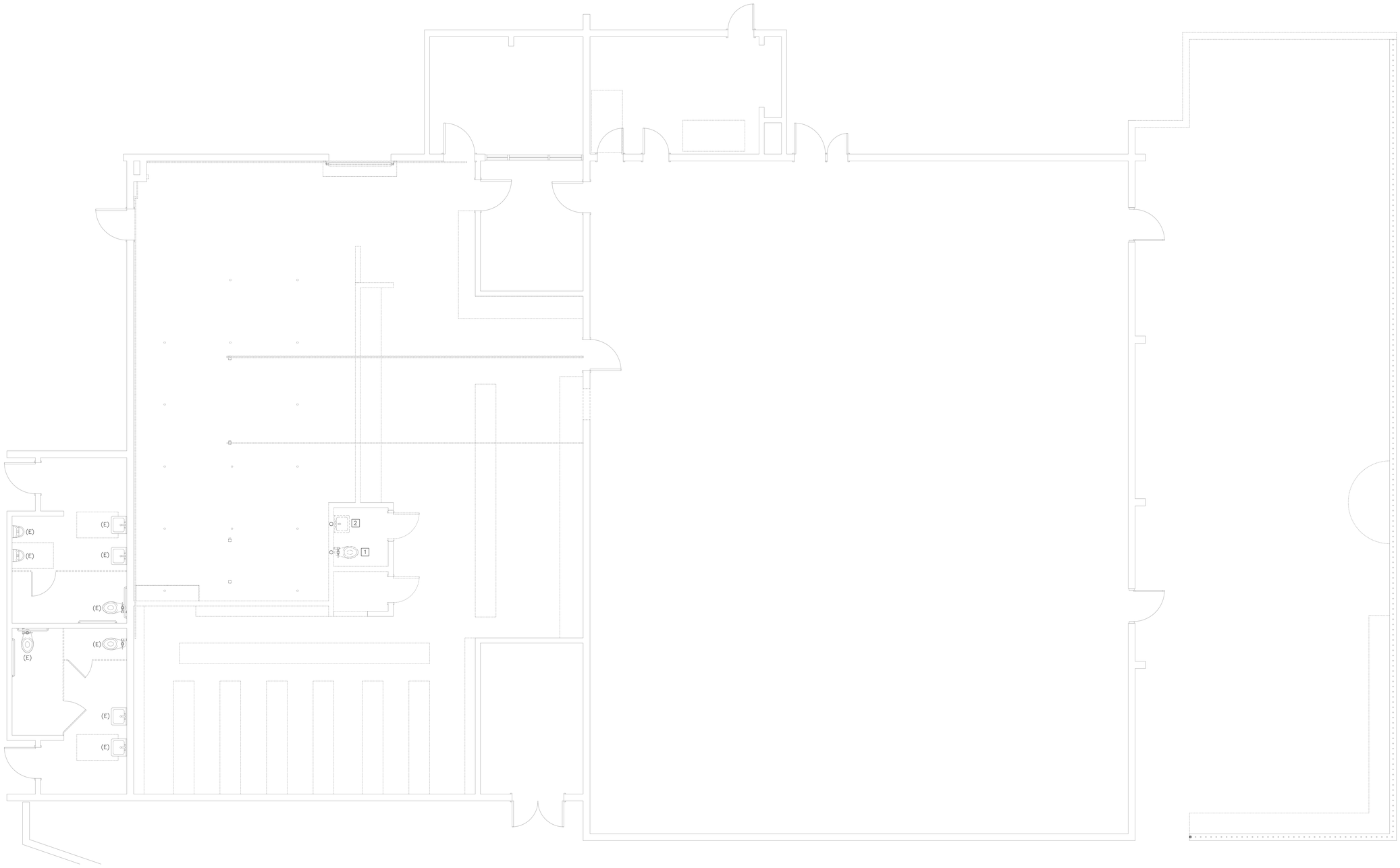


LIBRARY - PLUMBING DEMOLITION PLAN | 1 | 1/4" = 1'-0"

☐ DEMOLITION NOTES

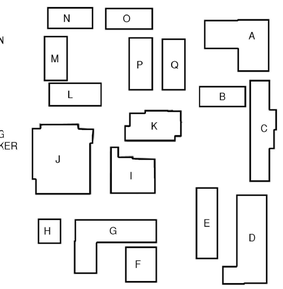
1.– EXISTING WATER CLOSET TO BE REMOVED. REMOVE ALL PIPING IN WALL. CAP WASTE BEL. FLR. FOR RECONNECTION. CAP WATER AND VENT PIPING ABV. CLG. FOR RECONNECTION.

2.– EXISTING LAVATORY TO BE REMOVED. REMOVE ALL PIPING IN WALL. CAP WASTE BEL. FLR. FOR RECONNECTION. CAP WATER AND VENT PIPING ABV. CLG. FOR RECONNECTION.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
F. METAL SHOP
G. PRINT AND DRAFTING
H. GIRLS SHOWER/LOCKER
I. CAFETERIA
J. GYMNASIUM
K. LIBRARY
L. CLASSROOM
M. CLASSROOM
N. CLASSROOM
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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REGISTRATION/SIGNATURE:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW M. PESTRELLA
No. M 29677
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE:
LIBRARY PLUMBING DEMOLITION PLAN

SHEET NUMBER:
PB1-1.1

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20624			01/26/2021

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LIBRARY - PLUMBING IMPROVEMENT PLAN | 1 | 1/4" = 1'-0"

PLAN NOTES

1.– PROVIDE 4" WASTE, 2" VENT AND 1" CW.

2.– PROVIDE 2" WASTE, 1–1/2" VENT AND 1/2" CW.

3.– P.O.C.– 4" WASTE TO EXISTING PIPING BEL. FLR. FIELD VERIFY EXACT LOCATION AND INVERT ELEVATION PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. PATCH FLR. TO MATCH EXISTING.

4.– P.O.C.– 1" CW AND 2" VENT TO EXISTING PIPING ABV. CLG. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED.

5.– P.O.C.– CONNECT 2" WASTE (ABV. FLR.), 1–1/2" VENT AND 3/4" CW TO EXISTING PIPING IN WALL SERVING THE WATER CLOSET. FIELD VERIFY EXACT LOCATION OF EXISTING PIPING PRIOR TO START OF WORK. EXTEND SERVICE AS INDICATED. PATCH WALLS TO MATCH EXISTING.

KEY PLAN

BUILDING DESIGNATION

A. ARTS
B. CLASSROOM
C. ADMINISTRATION
D. SCIENCE
E. SOCIAL STUDIES
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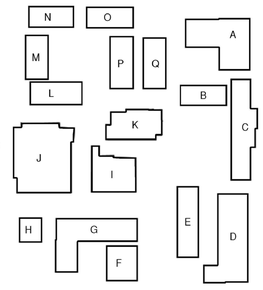
O. CLASSROOM
P. CLASSROOM
Q. DRAMA AND MUSIC



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GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.

2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.

3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
   a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
   b. FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
   c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
   d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.

4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.

5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.

6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.

7. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/ CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.

8. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.

9. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES (TITLE 24,2016 CCR AND 2016 ELECTRICAL CODE, PART3, TITLE 24 CCR).

10. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS.

11. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.

12. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.

13. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.

14. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.

15. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR \ INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED..

16. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.

17. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.

18. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.

19. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES.

20. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.

21. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.

22. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES FOR THE FOLLOWING AREAS: ALL CLASSROOM/RECREATIONAL/THEATRICAL ETC. BUILDINGS ON ELEMENTARY SCHOOL/MIDDLE SCHOOL/HIGH SCHOOL/COLLEGE/UNIVERSITY CAMPUSES; AND IN RESTROOMS/LAB SPACES/HEALTHCARE FACILITIES/ABOVE COUNTER SPACES/KITCHENS/SHOP AREAS/ANY HIGH ABUSE AREAS/ETC IN ALL CIVIC/INSTITUTIONAL/HEALTHCARE/OFFICE-WORKSPACE ENVIRONMENTS - UNLESS OTHERWISE NOTED. PLASTIC COVER PLATES WITH THE APPROPRIATE COLOR SHALL BE PERMITTED IN ALL OTHER AREAS - UNLESS OTHERWISE NOTED. IN INSTANCES WHERE PLASTIC COVER PLATES ARE UTILIZED EC SHALL WALL MOUNT AN ENGRAVED PHENOLIC NAMEPLATE WITH THE PANEL AND CIRCUIT NUMBER DIRECTLY ABOVE THE DEVICE.

23. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.

24. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING SCHOOL HOURS.

25. EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.

26. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.

27. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.

28. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.

29. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.

30. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2007 CBC SECTION 1613A AND ASCE7-05 SECTION 13.3 THRU 13.6. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS OR OTHERWISE APPROVED BY DSA ARE SUBJECT TO FIELD APPROVAL BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD AND DSA.

31. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.

32. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.

33. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.

34. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).

35. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.

36. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.

37. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.

38. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF STATE ARCHITECT.

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

ABBREVIATIONS

4S/DP	4" SQUARE BY 2 1/8" DEEP BOX
ADA	AMERICAN WITH DISABILITIES ACT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
AF/AT	AMP FRAME, AMP TRIP
AHJ	AUTHORITY HAVING JURISDICTION
AS/AF	AMP SWITCH, AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
BDF	BUILDING DISTRIBUTION FRAME
BR	BRANCH
BLDG	BUILDING
CEC	CALIFORNIA ELECTRICAL CODE
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
CSFD	COMBINATION SMOKE FIRE DAMPER
C	CONDUIT
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING
CONN	CONNECTED
CPT	CONTROL POWER TRANSFORMER
CLCB	CURRENT LIMITING CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
E	EXISTING EQUIP. TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E.P.O.	EMERGENCY POWER OFF
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.
EF	EXHAUST FAN
E/G	EQUIPMENT GROUND (GREEN)
EP	EXPLOSION PROOF
ER*	EXISTING EQUIP. TO BE REOLCATED (* CORRESPONDS TO NEW LOCATION)
ERT*	NEW LOCATION FOR REOLCATED EQUIP. (* CORRESPONDS TO PREVIOUS LOCATION)
FT or '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GRD	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.
GFP	GROUND FAULT PROTECTION
GEC	GROUNDING ELECTRODE CONDUCTOR
HACR	HEATING AIR CONDITIONING REFRIGERATION
HOA	HAND-OFF-AUTO
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IN. or "	INCHES
I/G	ISOLATED GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
JBOX	JUNCTION BOX
K	DEGREE KELVIN
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LONG CONTINUOUS LOAD
L.F.	LINEAR FEET
LTG, LTS	LIGHTING
LPS	LOW PRESSURE SODIUM
MAX.	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MOCP	MAXIMUM OVERCURRENT PROTECTION
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.C.	MECHANICAL CONTRACTOR
M	METER
M/M	METER MAIN
MV	MERCURY VAPOR
MH	METAL HALIDE
MIN.	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MFR.	MANUFACTURER
MTD	MOUNTED
MW	MICROWAVE
N	NEW EQUIP.
NATS	NON AUTOMATIC DISCONNECT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NF	NON-FUSED
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NL	NIGHT LIGHT
NO. or #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED.
%Z	PERCENT IMPEDANCE
PH. or Ø	PHASE
PC	PHOTOCELL
P.C.	PLUMBING CONTRACTOR
P	POLE
PVC	POLY VINYL CHLORIDE
PDU	POWER DISTRIBUTION UNIT
PRIMARY	OVER 600 VOLTS
PROVIDE	FURNISH, INSTALL AND CONNECT.
PT	POTENTIAL TRANSFORMER
PA	PUBLIC ADDRESS
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SCC	SHORT CIRCUIT CURRENT
SCS	STRUCTURED CABLING SYSTEM
SFD	SMOKE FIRE DAMPER
SECONDARY	600 VOLTS AND LESS
SMACNA	SHEET METAL & AIR COND. CONTRACTORS' NAT'L ASSOC.
SQ.	SQUARE
TC	TIMECLOCK
TEL/DATA	TELEPHONE AND DATA
TV	TELEVISION
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
U.G.P.S.	UNDERGROUND PULL SECTION
U.O.N.	UNLESS OTHERWISE NOTED
U.P.S.	UNINTERRUPTABLE POWER SYSTEM
VAV	VARIABLE AIR VOLUME
V	VOLTS
VA	VOLT AMPERES
VD	VOLTAGE DROP
WP	WEATHERPROOF
W	WIRE
XFMR	TRANSFORMER
XX	EXISTING EQUIP. TO BE DEMO'D

BRANCH CIRCUIT SYMBOLS

A-1,3,5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.

A-1&3&5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS WITH SEPARATE NEUTRALS. "&" INDICATES SEPARATE NEUTRALS.

A-1+3+5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. "+" INDICATES SEPARATE #10 NEUTRAL THROUGHOUT BRANCH CIRCUIT. HASH MARK " " INDICATES AN ISOLATED GROUND CONDUCTOR.

CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM

CONCEALED CONDUIT OR BRANCH CIRCUIT ROUTED IN FLOOR SLAB OR CONCRETE. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND SUPPORT AS REQUIRED. 1/2" CONDUIT (2) #12 AWG CONDUCTORS MINIMUM.

CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.

SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM. CONDUIT SHALL BE PAINT TO MATCH ADJUCENT SURFACE. COORDINATE COLOR WITH ARCHITECT/INTERIORS.

TANDEM WIRING CONNECTION.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS

CONDUIT CONTINUATION.

FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW

CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

ANNOTATIONS

EF / 2 — MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

3 / E-1 — DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

XXX-X — LIGHTING FIXTURE DESIGNATION

X — PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

1 — REVISION REFERENCE.

WYE CONFIGURATION △ DELTA CONFIGURATION

GROUND

STRUCTURAL MEMBERS SHALL NOT BE CUT,

UNLESS SPECIFICALLY SHOWN ON THESE PLANS,

DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

POWER SYMBOLS

FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.

SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.

DISTRIBUTION SWITCHBOARD. REFER TO SINGLE LINE DIAGRAM.

T — TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.

F — FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.

ST — NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT SIZES.

M / CT — UTILITY COMPANY METER. PROVIDE "CT's" AND "PT's" AS REQUIRED, REFER TO SINGLE LINE DIAGRAM.

1 / 150AF 150AT 3P — CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3 REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS BREAKER INFO. (SEE BELOW):
ST = PROVIDE SHUNT TRIP MECHANISM.
HACR = PROVIDE HACR-RATED BREAKER.
GFP = GROUND FAULT PROTECTION
CLCB = CURRENT LIMITING CIRCUIT BREAKER
SS = PROVIDE SOLID STATE CIRCUIT BREAKER

60AS 3P / 50AF CLASS J — FUSIBLE SWITCH: LINE 1 REPRESENTS SWITCH SIZE/RATING; LINE 2 REPRESENTS NUMBER OF POLES; LINE 3 REPRESENTS FUSE SIZE/RATING; LINE 4 REPRESENTS FUSE TYPE; LINE 5 REPRESENTS MISCELLANEOUS FUSE INFO. (SEE BELOW):
SHUNT= PROVIDE SHUNT TRIP MECHANISM.
GFP = GROUND FAULT PROTECTION
CLF = CURRENT LIMITING FUSE

GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED.

PB OR P — PULLBOX, SIZED PER N.E.C. OR AS NOTED.

1 — INDICATES EQUIPMENT CALL-OUT.
-REFER TO DETAIL 3/E502.2 FOR ANCHORAGE AND PAD SIZE.

COMPONENT ANCHORAGE NOTE:

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

1. ALL PERMANENT EQUIPMENT AND COMPARTMENTS.
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 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT 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 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 STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELEC. DIST. 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, 13.6.8, 13.6.7, 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 A PRE-APPROVAL 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.

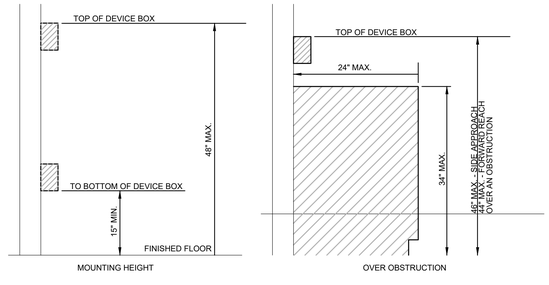
MECHANICAL PIPING (MP, MECHANICAL DUCTS (MD), PLUMING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP□MO□PP□E□X - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP□MO□PP□E□ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____

MP□MO□PP□ - OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITIONS 2009, INCLUDING ANY ADDENDA(S). FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, AR 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 CONDITIONS.

ACCESSIBLE DEVICE MOUNTING DETAIL



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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

REGISTERED PROFESSIONAL ENGINEER No. E 18589 ELECTRICAL STATE OF CALIFORNIA

AG Design Inc.
Consulting Electrical Engineers
714.769.9900
www.AGDesignEng.com
171 S. Anita Dr., Ste. 111 | Orange, CA 92868

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

REVISIONS:
1
2
3
4

NOT FOR CONSTRUCTION

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APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

P.T.N. _____-____

REGISTRATION/SIGNATURE:

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
E001

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.		
Project Name:	Fillmore High School Modernization	**Report Page:** (Page 1 of 7)
Project Address:	555 Central Ave.	**Date Prepared:** 1/26/2021

A. GENERAL INFORMATION

01	Project Location (city)	Fillmore	04	Total Conditioned Floor Area (ft²)	9,053
02	Climate Zone	9	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in) See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System	Area Category Method	9053	Area Category Method	0
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System				
Total Area of Work (ft²)	9053		0	

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)			Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	0	5,878.4	0	0	=	5878.4	≥ 2,986.5	0	=	2986.5	**05 must be >= 08 §140.6**
Unconditioned	0	0	0	0	=		≥ 0	0	=		COMPLIES
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
L1	2.6W/FT LED Module	No	No	2.6	JA8 Lamp	135	No	351	☐	☐
L2	61W LED Module	No	No	61	JA8 Lamp	15	No	915	☐	☐

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F. INDOOR LIGHTING FIXTURE SCHEDULE

L3	17.5W LED Module	No	No	17.5	JA8 Lamp	3	No	52.5	☐	☐
L4	10W LED Module	No	No	10	Mfr. Spec[1]	12	No	120	☐	☐
L5	4.5W/FT LED Module	No	No	4.5	JA8 Lamp	344	No	1,548	☐	☐
					Total Designed Watts: CONDITIONED SPACES			2,986.5		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When an control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Fillmore HS	All Other Space Types	Manual ON/OFF	Dimmer	Vacancy	N/A	N/A	No	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13
	Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Library	Library Reading Area	0.8	5,643	4,514.4	No	No
Cafeteria	Cafeteria/Fastfood	0.4	3,410	1,364	No	No
		TOTALS:	9,053	5,878.4	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

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O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P.POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALLALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	Fillmore High School Modernization	**Report Page:** (Page 7 of 7)
Project Address:	555 Central Ave.	**Date Prepared:** 1/26/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Adam Sloan	Documentation Author Signature:
Company: AG Design Engineers, Inc.	Signature Date: 2021-01-26
Address: 171 S. Anita Dr.	CEA/ HERS Certification Identification (if applicable): E-18589
City/State/Zip: Orange California 92868	Phone: 714.769.9900

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Adam Sloan	Responsible Designer Signature:
Company: AG Design Engineers, Inc.	Date Signed: 2021-01-26
Address: 171 S. Anita Drive, Suite 111	License: E-18589
City/State/Zip: Orange California 92868	Phone: 714.769.9900

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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
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ISSUED FOR:
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REGISTRATION/SIGNATURE:

SHEET TITLE:
TITLE-24 DOCUMENTS

SHEET NUMBER:
E002

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:

1. ALL LIGHTING FIXTURES SHALL BE LABELED WITH THE APPROPRIATE UL LABEL (DAMP, WET, ETC) AS REQUIRED BY CODES AND LOCAL ORDINANCES.

2. SHOP DRAWING SUBMITTALS SHALL INCLUDE ALL FIXTURES, LAMPS, AND BALLAST INFORMATION. ANY SHOP DRAWINGS WHICH ARE SUBMITTED WITHOUT ANY ONE OF THESE ITEMS WILL BE REJECTED AS INCOMPLETE AND WILL BE REQUIRED TO BE RESUBMITTED WITH THE REQUIRED INFORMATION.

3. ALL LIGHTING FIXTURE SPECIFIC INFORMATION (TYPE, LAMPING, BALLAST, COLOR, MOUNTING, ETC.) HAS BEEN SPECIFIED WITH THE CONSIDERATION OF SPECIFIC PERFORMANCE AND AESTHETIC REQUIREMENTS. ANY SUBSTITUTION OF THE SPECIFIED FIXTURES IS SUBJECT TO THE ARCHITECT AND ENGINEER OF RECORDS FINAL APPROVAL AND ARE SUBJECT TO THE FOLLOWING CRITERIA:

   a. AN OPERABLE SAMPLE WITH THE SPECIFIED LAMP/BALLAST COMBINATION AND A 120V CORD AND PLUG.

   b. SITE LIGHTING FIXTURES - PROVIDE A COMPLETE PHOTOMETRIC REPORT WHICH INCLUDES THE FOLLOWING INFORMATION SITE PLAN WHICH CLEARLY IDENTIFIES FOOT-CANDLE LEVELS. PLAN IS TO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATION (LAMP/BALLAST TYPE, LAMP LUMENS, LIGHT LOSS FACTOR, ETC.). IN SITUATIONS WHERE SUBSTITUTIONS AFFECT FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS, OR OTHER EMERGENCY SOURCES OF POWER, PROVIDE ADDITIONAL PHOTOMETRIC REPORT(S) WHICH CLEARLY IDENTIFY A MINIMUM 1.0 FOOT-CANDLES ALONG THE PATH(S) OF EGRESS - THIS REPORT SHALL ALSO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK). SEE BELOW FOR PHOTOMETRIC PLAN GUIDELINES:

      1) POINT BY POINT SPACING IS NOT EXCEED 10'-0" IN ANY DIRECTION.

      2) PHOTOMETRIC STUDY IS TO BE BASED ON A MAINTAINED FOOT-CANDLE LEVEL USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR TO BE DETERMINED BY THE ENGINEER OF RECORD.

      3) ASSOCIATED REPORT TO INCLUDE AN ENERGY COST MODEL WHICH IDENTIFIES ADDITIONAL ENERGY OR ENERGY COSTS FOR A 10-YEAR PERIOD AS COMPARED TO THE SPECIFIED ITEM. ALL ADDITIONAL EXPENSES WILL BE SUBTRACTED FROM THE CONTRACT COST.

   c. INTERIOR LIGHTING FIXTURES - SPECIFIC INTERIOR FIXTURES AS DETERMINED BY THE ENGINEER OF RECORD WILL REQUIRE SUPPLEMENTAL PHOTOMETRIC REPORTS CONFIRMING SUBSTITUTE FIXTURE LIGHT LEVELS EQUAL OR EXCEED DESIGNED LIGHT LEVELS IN SPACES IDENTIFIED. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE A PHOTOMETRIC REPORT SHALL BE SUBMITTED FOR ALL PATHS OF EGRESS WHICH CLEARLY IDENTIFIES 1.0 MINIMUM FOOT-CANDLES ALONG THE PATH. IN ADDITION, TEST SWITCH MOUNTING (INTEGRAL OR REMOTE) SHALL MATCH THE MOUNTING AS SPECIFIED ON THE DESIGN DOCUMENTS - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED COVER PLATES, TRIMS, REFLECTORS, ETC NECESSARY FOR THE SPECIFIC TEST SWITCH MOUNTING. ALL REPORTS SHALL INCLUDE INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK).

   d. MANUFACTURER'S CATALOG CUT SHEET WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION: 1) LAMP TYPES AND QUANTITIES; 2) BALLAST OPTIONS; 3) VOLTAGES; 4) EPA RATING (WHERE APPLICABLE); 5) FIXTURE DIMENSIONS; 5) EMERGENCY BATTERY PACK AND TEST SWITCH OPTIONS (WHERE APPLICABLE); AND 6) FIXTURE FINISHES.

   e. FOR ALL SITE LIGHTING FIXTURES PROVIDE POLE SPECIFICATIONS WITH SUPPLEMENTAL DOCUMENTATION IDENTIFYING POLE SIZE IS RATED ACCORDINGLY BASED ON FIXTURE(S) EPA AND A WIND RATING FOR THE PROJECT ZONE.

   f. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM" LOCATED IN THE DIVISION 1 SPECIFICATION WHICH STATES THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THEN THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED DUE TO THE PROPOSED SUBSTITUTION THEN THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL ESTABLISHED LIQUIDATED DAMAGES.

   g. CONTRACTOR TO PROVIDE ARCHITECT AND ENGINEER OF RECORD WITH ALL SUBSTITUTE INFORMATION REFERENCED ABOVE NO LATER THAN TWO WORKING WEEKS PRIOR TO THE BID DEADLINE.

4. CATALOG NUMBERS AS REFERENCED ON THE FIXTURE SCHEDULE PROVIDE GENERAL FIXTURE INFORMATION. CONTRACTOR SHALL REVIEW LIGHTING PLANS AND SPECIFICATIONS TO VERIFY ALL FIXTURE ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DESCRIPTIONS, SPECIFICATIONS, AND CATALOG NUMBERS ARE TO BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION.

5. ALL COLOR SPECIFIC INFORMATION WHICH RELATES TO LIGHTING FIXTURES AND/OR THEIR RELATED PARTS ARE TO BE REVIEWED AND COMMENTED ON BY THE ARCHITECT. FIXTURES WHICH REQUIRE A CUSTOM COLOR WILL HAVE A CUSTOM COLOR PAINT WHICH WILL BE INCLUDED IN THE ARCHITECT'S SHOP DRAWING REVIEW COMMENTS.

6. ALL LIGHTING EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING AND INSTALLING.

7. ALL FIXTURES MOUNTED IN FIRE RATED CEILINGS ARE TO BE PROVIDED AND INSTALLED WITH AN APPROVED FIRE RATED ENCLOSURE.

8. ENSURE COMPATIBILITY OF ALL DIMMING SYSTEM AND INDIVIDUAL LIGHTING CONTROLS WITH LAMPS AND FIXTURES. ALL COMPONENTS ARE TO BE FACTORY CERTIFIED COMPATIBLE FOR A FULL RANGE OF DIMMING.

9. LIGHTING FIXTURE CLEARANCES FROM COMBUSTIBLE MATERIALS ARE TO BE A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR NON-IC RATED RECESSED LIGHTING FIXTURES.

10. ALL LIGHTING FIXTURES TO BE MOUNTED IN A SUSPENDED CEILING ARE TO BE SUPPORTED BY T-BAR CLIPS AND (2)#12 SUPPORT WIRES ATTACHED TO THE BUILDING FRAME. IN ADDITION, LIGHTING FIXTURES ARE TO BE SECURED TO THE CEILING GRID WITH (4) SHEET METAL SCREWS ((1) AT EACH CORNER OF THE FIXTURE) - SCREWS SHALL BE NEITHER VISIBLE NOR IMPEDE THE INSTALLATION OF CEILING TILES.

11. ALL LIGHTING FIXTURES WHICH ARE TO BE MOUNTED IN FOOD SERVICE AREAS SHALL BE PROVIDED WITH THE FOLLOWING CHARACTERISTICS: DOOR TO FRAME GASKETS; LENS TO FRAME GASKETS; INVERTED LENS; AND A FOOD SERVICE RATING.

13. ALL FIXTURES MUST BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLASTS WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).

14. ALL FIXTURES ARE TO BE PROVIDED WITH THE REQUIRED UL AND CBM LABELS AND MUST CONFORM TO T-24 STANDARDS AND REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.

15. ALL FIXTURES, TRIMS, AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL/ADHESIVE, AND FINGER PRINTS.

16. FIXTURES REFERENCED ON THE PLANS TO BE WIRED IN TANDEM (MASTER/SATTELITE) ARE TO BE INSTALLED FOLLOWING THE GUIDELINES REFERENCED BELOW:

   a. FIXTURES ARE TO BE PROVIDED WITH MULTIPLE BALLASTS AS REQUIRED. FIXTURES TO BE PROVIDED WITH FACTORY SPECIFIED AND INSTALLED WIRING HARNESS OF LENGTHS SPECIFIED ON THE PLANS. ALL AREAS WITH TANDEM FIXTURES ARE TO BE PROVIDED WITH THE REQUIRED QUANTITY AND TYPE OF CONTROL DEVICES AS INDICATED ON PLANS.

   b. 3-LAMP FIXTURES TO BE TANDEM WIRED WITH ELECTRONIC BALLAST CONFIGURATIONS AS FOLLOWS:

      1) "M" REFERENCES A MASTER FIXTURE WHICH IS TO PROVIDED WITH (1) 4-LAMP BALLAST WHICH CONTROLS THE OUTBOARD LAMPS; AND (1) 2-LAMP BALLAST WHICH CONTROLS THE INBOARD LAMPS - OF BOTH THE MASTER ("M") AND THE SATELLITE ("S") FIXTURES.

      2) "S" REFERENCES A SATELLITE FIXTURE WHICH IS CONNECTED TO THE MASTER ("M") FIXTURE VIA FACTORY PROVIDED WIRING HARNESS OR WHIP.

      3) "O" REFERENCES AN ODD FIXTURE WHICH IS TO BE PROVIDED WITH (1) 2-LAMP BALLAST WHICH CONTROLS THE OUTBOARD LAMPS; AND (1) 1-LAMP BALLAST WHICH CONTROLS THE INBOARD LAMP.

      4) FIXTURES DESIGNATED AS "EMERGENCY" ARE TO BE PROVIDED WITH THE APPROPRIATE EMERGENCY BATTERY PACK (SEE EMERGENCY BATTERY PACK SPECS BELOW) AND ARE TO BE FED WITH SPECIFIED SWITCH LEGS, AS WELL AS A CONSTANT HOT CIRCUIT. EM BATTERY PACK IS TO BE MOUNTED IN THE MASTER FIXTURE.

      5) CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE LAMP AND BALLAST TYPE AND QUANTITY BASED ON THE FIXTURE SPECIFICATION AND SWITCHING CONFIGURATIONS.

18. EMERGENCY LIGHTING FIXTURES AND BATTERY PACKS ARE TO BE PROVIDED BASED ON FOLLOWING THE CRITERIA:

   a. FIXTURES SPECIFIED WITH INTEGRAL EMERGENCY BATTERY PACKS ARE TO BE FED USING THE FOLLOWING GUIDELINES:

      1a,1* - FOR EMERGENCY FIXTURES SPECIFIED WITH AN EMERGENCY BATTERY PACK REPRESENTS A FIXTURE WITH A NORMAL BALLAST TO BE CONNECTED TO SWITCH LEG "a" AND AN EMERGENCY BALLAST TO BE CONNECTED TO A CONSTANT HOT LEG "1" (CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES).

      1* - REPRESENTS ONE OF THE FOLLOWING FIXTURE TYPES WHICH ARE TO BE CONNECTED TO A CONSTANT HOT CIRCUIT "1": a) NORMAL FIXTURE DESIGNATED AS A NIGHT LIGHT (NL); b) EXIT SIGN(S); AND/OR c) AN EMERGENCY FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK WHICH ALSO SPECIFIED TO BE A NIGHT LIGHT. (ALL CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES)

   b. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

      LED LAMPS:

      BODINE #BSL23 OR #BSL722 OR EQUAL IF AVAILABLE

      NOTE: ALL LED FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS SHALL HAVE THE BATTERY PACKS FACTORY INSTALLED AND TESTED AT THE FIXTURE MANUFACTURER'S FACILITY TO ENSURE UL LISTING OF THE FIXTURE IS MAINTAINED. FIELD INSTALLATION OF LED EMERGENCY BATTERY PACKS IS STRICTLY PROHIBITED. NOTIFY ENGINEER OF RECORD SHOULD SPECIFIED FIXTURE NOT HAVE ADEQUATE SPACE TO ACCOMMODATE THE EMERGENCY BATTERY PACK. CONTRACTOR TO MODIFY BASE BID TO INCLUDE ALL NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL, ADEQUATELY SIZED MINIATURE INVERTER SYSTEM TO BE MOUNTED IN NEAREST ELECTRICAL ROOM IN THE EVENT THE BATTERY PACK CAN NOT BE INSTALLED IN THE FIXTURE.

      NOTE: ALL BATTERY PACKS ARE TO BE FACTORY INSTALLED IN FIXTURE ASSEMBLIES WHEN APPLICABLE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING FIXTURE MANUFACTURERS TO VERIFY SPECIFIED (OR APPROVED SUBSTITUTE) FIXTURE HAS ADEQUATE SPACE WITHIN THE FIXTURE TO MOUNT THE EMERGENCY BATTERY PACK. IF IT IS DETERMINED THE BATTERY PACK CANNOT BE MOUNTED IN THE FIXTURE THEN CONTRACTOR SHALL INCLUDE ALL COSTS REQUIRED FOR REMOTE MOUNTING THE EMERGENCY BATTERY PACK ABOVE NEAREST ACCESSIBLE CEILING. ENSURE DISTANCE FROM FIXTURE TO REMOTE BATTERY PACK LOCATION DOES NOT EXCEED THE MANUFACTURER'S RECOMMENDED DISTANCES. COORDINATE ALL ACCESS PANELS WITH ARCHITECT OF \ RECORD PRIOR TO INSTALL.

   c. ALL LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS ARE TO BE PROVIDED WITH INTEGRAL TEST SWITCHES AND CHARGE LIGHTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ). IN THE EVENT INTEGRAL TEST SWITCHES ARE NOT ALLOWED NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION OF REMOTE TEST SWITCHES. TEST SWITCHES TO BE INSTALLED IN FIXTURES WITH A MINIMUM OF 18" OF ADDITIONAL WIRING TO ALLOW FOR GENERAL FIXTURE MAINTENANCE.

19. INSTALL ALL EXIT SIGNS IN ACCORDANCE WITH THE LOCAL AHJ AND FIRE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PARTS, PIECES, AND MOUNTING HARDWARE FOR EXIT SIGNS, AS WELL AS, ENSURING THE EXIT SIGNS ARE MOUNTED IN AN APPROVED VISIBLE LOCATION. VERIFY ALL REQUIRED CHEVRONS, MIRRORS, AND FACES AS REFERENCED ON THE ARCHITECTURAL REFLECTED CEILING PLAN. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING OF EQUIPMENT.

20. TRACK LIGHTING FIXTURE SPECIFICATIONS ARE TO BE COORDINATED, VERIFIED AND CONFIRMED WITH EQUIPMENT MANUFACTURER AND/OR DISTRIBUTOR PRIOR TO ORDERING AND INSTALLING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES FOR A COMPLETE, FUNCTIONAL AND OPERATIONAL INSTALLATION. TRACK LENGTHS ARE AS SPECIFIED ON THE FIXTURE SCHEDULE.

21. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES PER LOCAL AND NATIONAL BUILDING, ELECTRICAL AND SEISMIC CODES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED MOUNTING HARDWARE AND BRACING MATERIALS FOR COMPLETE AND CODE COMPLIANT INSTALLATION. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

22. CONTRACTOR SHALL COORDINATE ALL LIGHTING FIXTURE LOCATIONS AND QUANTITIES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IN ADDITION, CONTRACTOR SHALL ALSO COORDINATE ANY FIXTURE SPECIFIC DIMENSIONS WITH ARCHITECTURAL RCP. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FINALIZING FIXTURE ORDER WITH THE DISTRIBUTOR.

23. CONTRACTOR TO INCLUDE IN BASE BID A MINIMUM OF 2-HOURS FOR A ONE TIME AIMING AND ADJUSTMENT TIME OF ALL MULTI-HEAD AND DIRECTIONAL FIXTURE ASSEMBLIES. AIMING AND ADJUSTMENT TO BE SCHEDULED FOR AT NIGHT AND AFTER HOURS WITH THE ARCHITECT, ENGINEER, AND OWNER PRESENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AN APPROPRIATE TIME PRIOR TO ORDERING THE FINAL PUNCH WALK FOR THE PROJECT.

24. SUPPLEMENTARY OVERCURRENT PROTECTION PANEL FOR TRACK LIGHTING SYSTEMS TO BE PROMINENTLY LABELED AS FOLLOWS:
NOTICE: THIS PANEL FOR TRACK LIGHTING ENERGY CODE COMPLIANCE ONLY. THE OVERCURRENT PROTECTION DEVICES IN THIS PANEL SHALL ONLY BE REPLACED WITH THE SAME OR LOWER AMPERAGE. NO OTHER OVERCURRENT PROTECTIVE DEVICE SHALL BE ADDED TO THIS PANEL. ADDING TO, OR REPLACEMENT OF EXISTING OVERCURRENT PROTECTIVE DEVICE(S) WITH HIGHER CONTINUOUS AMPERE RATING, WILL VOID THE PANEL LISTING AND REQUIRE RESUBMITTAL AND RE-CERTIFICATION OF CALIFORNIA TITLE 24, PART 6 COMPLIANCE DOCUMENTATION.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG #	LAMP	FIXT. WATTAGE	FIXT. FINISH	VOLTS	ADDITIONAL INFORMATION
L1	MARK LIGHTING #SL6L RLP FLTG 80 CRI 35K 400LMF MIN1 120V LITE CONTROL #6L-R-D	LED 35K	4W/FT	WHITE	MVOLT	6" RECESSED LED LINEAR FIXTURE. LENGTHS PER PLAN.
L2	LITHONIA #LDN8 35K 50 LO8 WR LD MVOLT GZ1	LED 35K	61	WHITE	MVOLT	8" DIA. RECESSED DOWN LIGHT FIXTURE
L3	LITHONIA #LDN6 35K 15 LO6 WR LD MVOLT GZ1	LED 35K	17	WHITE	MVOLT	6" DIA. RECESSED DOWN LIGHT FIXTURE
L4	3G LIGHTING #3G-PRU24 L15 S80 35K UNV DIM WH AC C60	LED 35K	11	WHITE	MVOLT	24" DIA. PENDANT MOUNTED
L5	MARK LIGHTING #S4LD 80 CRI 35K 400LMF MIN1 120V #S4LID 80 CRI 35K 400LMF MIN1 120V PRUDENTIAL LIGHTING #P40	LED 35K	4W/FT	WHITE	MVOLT	CABLE MOUNTED 8FT. LINEAR FIXTURE - PEWTER (MATTE) FINISH. LENGTHS PER PLAN.
L6	MARK LIGHTING #S4LD 80 CRI 35K 400LMF MIN1 120V #S4LID 80 CRI 35K 400LMF MIN1 120V PRUDENTIAL LIGHTING #P40	LED 35K	4W/FT	WHITE	MVOLT	CABLE MOUNTED 8FT. LINEAR FIXTURE - DAFFODIL (MATTE) FINISH
L7	MONTE CARLO #3MAVR70RZWD	LED 35K	18W	WHITE	MVOLT	LARGE CEILING FAN, REMOTE INCLUDED.
L8	LITHONIA #EDG	LED	3W	WHITE	MVOLT	LED EDGE LIT EXIT SIGN.
L9	LIGMAN #ULE-40601	LED 35K	11W	WHITE	MVOLT	LOW LEVEL LED STEP LIGHT.
L10	LITHONIA #VAP 4000LM FST WD MVOLT GZ10 40K 80CRI	LED 35K	33W	WHITE	MVOLT	SURFACE MOUNTED VAPOR TIGHT/ VANDAL RESISTANCE LED.

MEETING THESE REQUIREMENTS CONTRACTOR IS RESPONSIBLE FOR PROVIDING LINE ITEM PRICING COMPARISONS BETWEEN THE SPECIFIED FIXTURE AND THE PROPOSED ALTERNATE FIXTURE TO THE ENGINEER OF RECORD/OWNER/ARCHITECT - PRICING SHALL BE REPRESENTATIVE OF THE FINAL COST PER UNIT TO THE OWNER AND INCLUSIVE OF ALL CONTRACTOR/DISTRIBUTOR MARK-UPS AND SHIPPING COSTS. ALL FIXTURES WHICH ARE NOT SUBMITTED PER THESE REQUIREMENTS WILL BE REJECTED AS INCOMPLETE.

NOTE:
"OR EQUAL = IN ORDER FOR A PRODUCT BY ONE OF THE REFERENCED "OR EQUAL" MANUFACTURERS TO BE CONSIDERED AN EQUAL PRODUCT ALL REQUIREMENTS IDENTIFIED IN THE "GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:" AND PROJECT SPECIFICATIONS MUST BE MET WITHIN TWO-WEEKS PRIOR TO THE BID DEADLINE. ANY PRODUCTS SELECTED WHICH DO NOT MEET THESE REQUIREMENTS WILL BE DETERMINED NOT TO BE AN EQUAL AND THEREFORE NOT A CONSIDERATION FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF THE FIXTURE SCHEDULE AND LIGHTING/FIXTURE SCHEDULE GENERAL NOTES TO ALL REPRESENTATIVE AGENCIES/DISTRIBUTORS."

NOTE: ALL FIXTURES AND LIGHTING CONTROLS SHALL BE PROVIDED AS SPECIFIED. NO FIXTURE/CONTROL SUBSTITUTIONS WILL BE CONSIDERED OR ACCEPTED UNLESS SPECIFICALLY REFERENCED AS AN EQUAL ON THE SCHEDULE OR HEREIN. IN SITUATIONS WHERE THE OWNER CHOOSES TO CONSIDER "VALUE ENGINEERING ALTERNATIVES" WHICH DEVIATE FROM ANY OF THE SPECIFIED/REFERENCED FIXTURES/EQUIPMENT - ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED PER NOTE 3 OF THE "GENERAL NOTES - LIGHTING FIXTURE SCHEDULE". IN ADDITION TO

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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

REVISIONS:

NOT FOR CONSTRUCTION

DEPARTMENT OF THE STATE ARCHITECT

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DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

P.T.N. _____-_____

REGISTRATION/SIGNATURE:

SHEET TITLE:

ELECTRICAL FIXTURE SCHEDULE

SHEET NUMBER:

E003

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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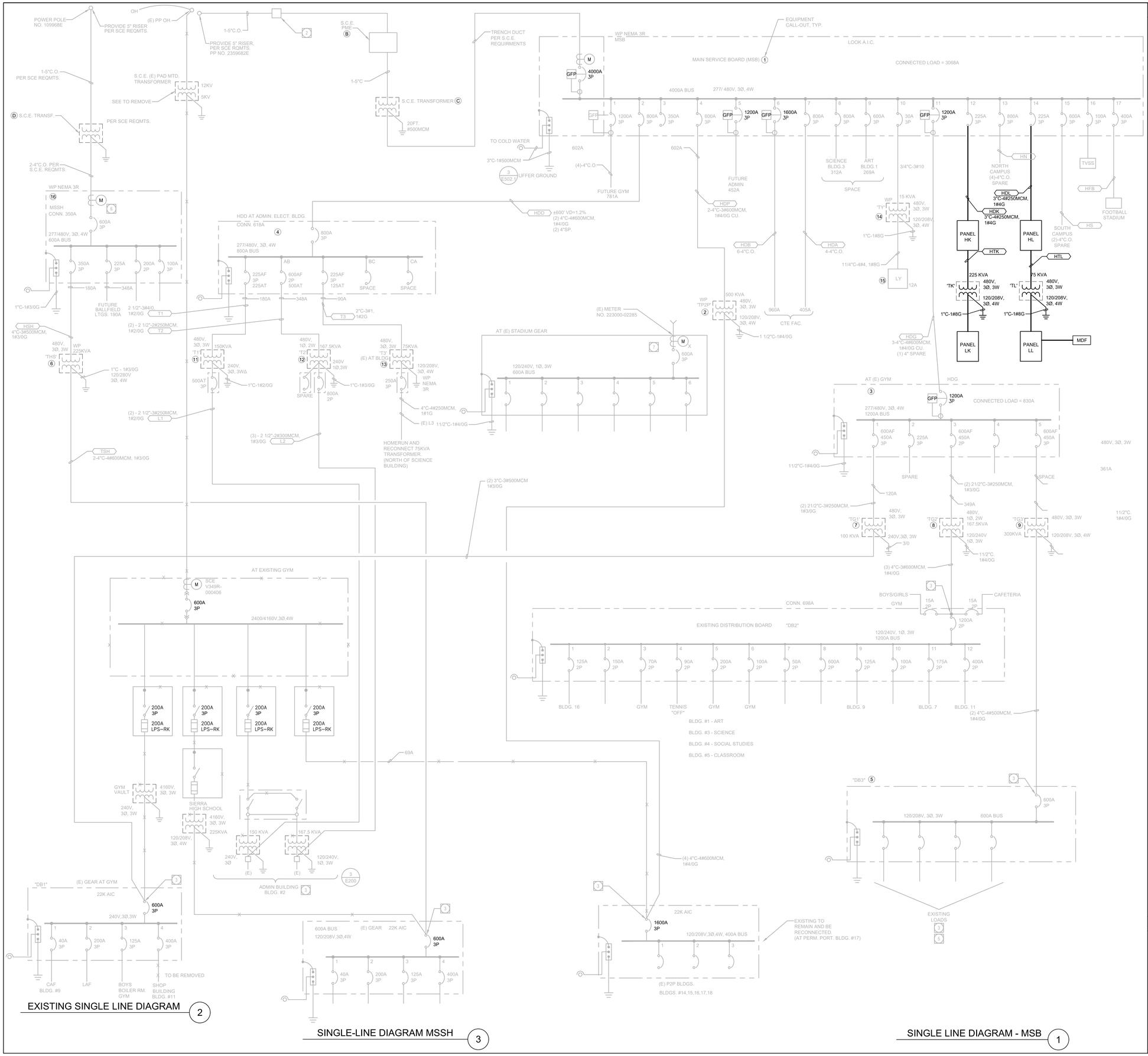

EXISTING SINGLE LINE DIAGRAM 2

SINGLE-LINE DIAGRAM MSSH 3

SINGLE LINE DIAGRAM - MSB 1

SINGLE LINE NOTES

1. ALL EQUIPMENT TO BE SQUARE D OR EQUAL BY SIEMENS, CUTLER-HAMMER, G.E., OR RSC-SIERRA.
2. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SPECIFIED AND APPROPRIATE UL LISTING BASED ON THE ENVIRONMENT IN WHICH THE EQUIPMENT IS TO BE MOUNTED.
3. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AND BRACED FOR REQUIRED FAULT CURRENT RATINGS BASED ON THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM. SHOP DRAWINGS TO INCLUDE FAULT CURRENT RATINGS FOR ALL ELECTRICAL EQUIPMENT. NO SERIES RATING SHALL BE ALLOWED.
4. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREES CELSIUS CONDUCTORS.
5. ALL SERVICE ENTRANCE EQUIPMENT/DISTRIBUTION BOARDS/SWITCHBOARDS RATED AT 600A OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER-CURRENT PROTECTIVE DEVICE AND BUSSING RATED AT 100% OPERATION.
6. ALL SWITCH/DISTRIBUTION BOARDS SHALL BE PROVIDED WITH:
   a. COPPER BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND HAVE PROVISIONS FOR FUTURE EXTENSIONS WERE APPLICABLE. ALL BUSSING SHALL HAVE A MINIMUM WITHSTAND RATING EQUAL TO AVAILABLE FAULT CURRENT INDICATED ON THE A/C CALCULATION. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD ASSEMBLIES. PROVIDE 100% NEUTRAL BUSSING MINIMUM - UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUSS, AND WHERE INDICATED ON PLANS,ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS - UNLESS OTHERWISE NOTED OR REQUIRED.
   b. LUGS SHALL BE SUITABLE FOR USE WITH BOTH COPPER AND ALUMINUM CONDUCTORS AND 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   c. PERMANENT PLACARDS(S) MARKED PER THE SPECIFICATIONS AND PER NEC (CEC - WHERE ADOPTED SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES, ETC. AS APPLICABLE.
8. CONTRACTOR SHALL PROVIDE SWITCHBOARD SHOP DRAWINGS TO SERVING UTILITY COMPANY PRIOR TO FABRICATION OF EQUIPMENT. CONTRACTOR SHALL SECURE CONFIRMATION PROPOSED SWITCHBOARD COMPLIES WITH ELECTRICAL UTILITY COMPANY REGULATIONS.
9. ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE ACCOMPANIED BY A 1/4" = 1'-0" SCALED DRAWING WHICH REFERENCES ALL ELECTRICAL EQUIPMENT ROOMS AND EQUIPMENT. DRAWING SHALL CLEARLY IDENTIFY ADEQUATE SPACE IS PROVIDED IN ELECTRICAL ROOMS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WHILE MAINTAINING ALL REQUIRED CODE CLEARANCES. ALL SUBMITTALS NOT ACCOMPANIED BY SCALED DRAWING WILL BE REJECTED AS INCOMPLETE.
10. EC SHALL CONDUCT, WITH ASSISTANCE OF SWITCHGEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY TO DETERMINE APPROPRIATE LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E AND IEEE STD. 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER- CURRENT PROTECTIVE DEVICES SHOWN ON SINGLE-LINE DIAGRAM. ADDITIONALLY:
    a. STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE-LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM STUDY WITH THE AID OF A COMPUTER PROGRAM, SKM CAPTOR, OR EQUAL. STUDY SHALL IDENTIFY SELECTIVE COORDINATION SUCH THAT DEVICE CLOSEST TO FAULT WILL TRIP FIRST. GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS 30A AND LESS.
    b. EC SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES AND TO NCLUDE GROUND FAULT SETTINGS NECESSARY TO ACHIEVE SYSTEM COORDINATION. CONTRACTOR SHALL FIELD ADJUST DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE.
    c. DURING THE CONSTRUCTION PHASE OF THE PROJECT ALL GROUND FAULT RELAYS SHALL BE SET AT SHORTEST AVAILABLE TIME DELAY.
    d. RESULT OF COORDINATION STUDY SHALL BE SUBMITTED AS PART OF OVERALL SWITCHGEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION, AND COMMENTARY REGARDING SAME.
    e. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (CEC - WHERE ADOPTED) 230.95(C). GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN PRESENCE OF LOCAL AHJ. VERIFICATION OF DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY SAME INDEPENDENT TESTING AGENCY. GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO ENGINEER OF RECORD.
    f. PERFORM ARC FLASH ANALYSIS TO DETERMINE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). ABOVE INFORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ON A NEC (CEC WHERE ADOPTED) COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
11. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLE 250.
12. FEEDER SPECIFICATIONS ARE BASED ON USE OF COPPER CONDUCTORS AND SHALL BE PROVIDED WITH A CODE SIZED COPPER GROUNDING CONDUCTOR.
13. ALL MAIN SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, ETC SHALL BE PROVIDED WITH A COPPER BUSS RATED AT SPECIFIED AMPACITY. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL ALIGN IN FRONT. ALL PANELBOARDS SHALL BE PROVIDED WITH BOLT-ON BREAKERS, DEADFRONT COVERS WITH LOCKABLE DOORS, FACTORY INSTALLED MAIN CIRCUIT BREAKERS (IF APPLICABLE), AND PANEL DIRECTORY PER THESE DOCUMENTS.
14. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED WHITE LETTERS REFERENCING FOLLOWING INFORMATION:

    LINE 1 - "EQUIPMENT NAME"
    LINE 2 - "FED FROM ..."
    LINE 3 - "VOLTAGE, AMPACITY, PHASE"
    LINE 4 - "DATE INSTALLED"

    NAMEPLATES SHALL BE SIZED BASED ON FOLLOWING:

    SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:
    * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC:
    * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    NAMEPLATE COLORS SHALL BE AS FOLLOWS:

    BLACK = NORMAL POWER
    RED = LIFE SAFETY/EMERGENCY POWER
    BLUE = STANDBY POWER
    GREEN = INVERTER POWER

    ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
15. ELECTRICAL DESIGN COMPUTES VOLTAGE DROP BASED ON FEEDER LENGTHS REFERENCED ON SINGLE-LINE DIAGRAM. EC TO NOTIFY ENGINEER OF RECORD IN EVENT FIELD CONDITIONS CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH.
16. ANY FLOOR-STANDING ELECTRICAL EQUIPMENT (I.E. INVERTERS, DISTRIBUTION BOARDS, SWITCHBOARDS, ATS SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS ETC.) ARE TO BE MOUNTED ON A MINIMUM 4" HIGH HOUSEKEEPING PAD WHICH EXTENDS 4" BEYOND EQUIPMENT IN ALL DIRECTIONS.
17. ALL MOTOR RELATED CIRCUITS ARE TO BE PROVIDED WITH PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER-VOLTAGE.
18. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC.,
19. ALL FEEDER DISTANCES REFERENCED ON DRAWINGS ARE FOR DESIGN PURPOSES ONLY. LENGTHS AS INDICATED ARE NOT TO BE UTILIZED IN MATERIAL TAKE-OFFS.

SINGLE LINE NOTES

1. EXISTING MAIN SERVICE BOARD (MSB) LOCATED WEST OF GYMNASIUM. CONDUIT PATHWAYS ARE EXISTING OUTSIDE OF PROJECT LINE. DUCT BANK HOMERUN TO MSB. CONTRACTOR SHALL MANDREL AND SWAB CONDUITS AND PULL IN CONDUCTORS TO (MSB). MAIN CIRCUIT BREAKERS ARE EXISTING & LABELED IN MSB.
2. SHUT-DOWN UPRON FIRE ALARM SIGNAL. DRY CONTACTOR FURNISHED WITH MECHANICAL EQUIPMENT.
3. EXISTING CIRCUIT BREAKER TO BE UTILIZED.

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FILLMORE UNIFIED SCHOOL DISTRICT

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REGISTRATION/SIGNATURE:

SHEET TITLE:
SINGLE-LINE DIAGRAM

SHEET NUMBER:
E004

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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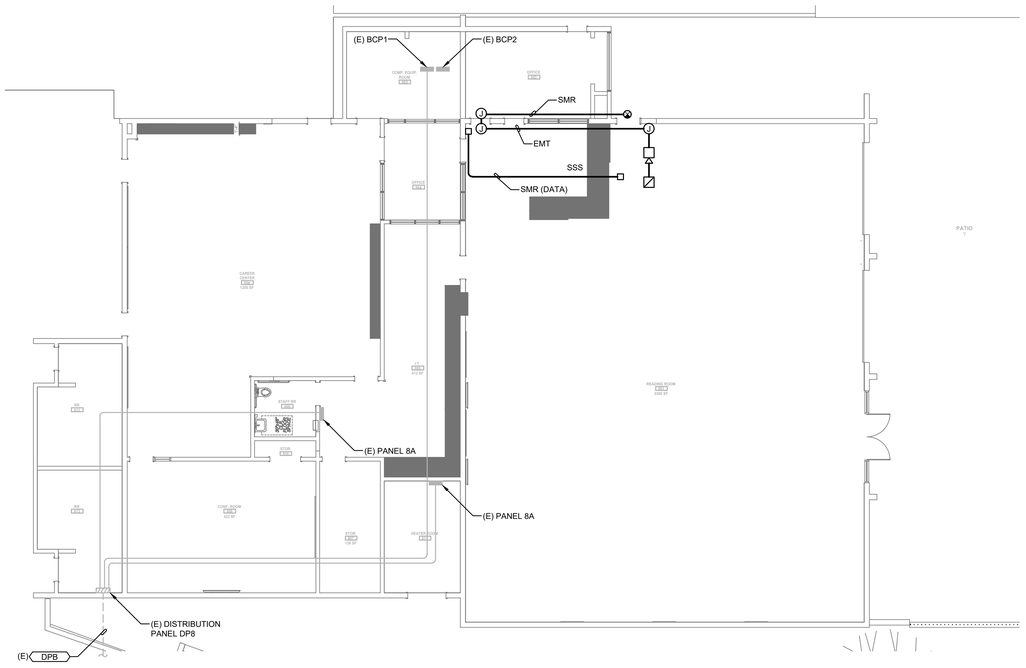
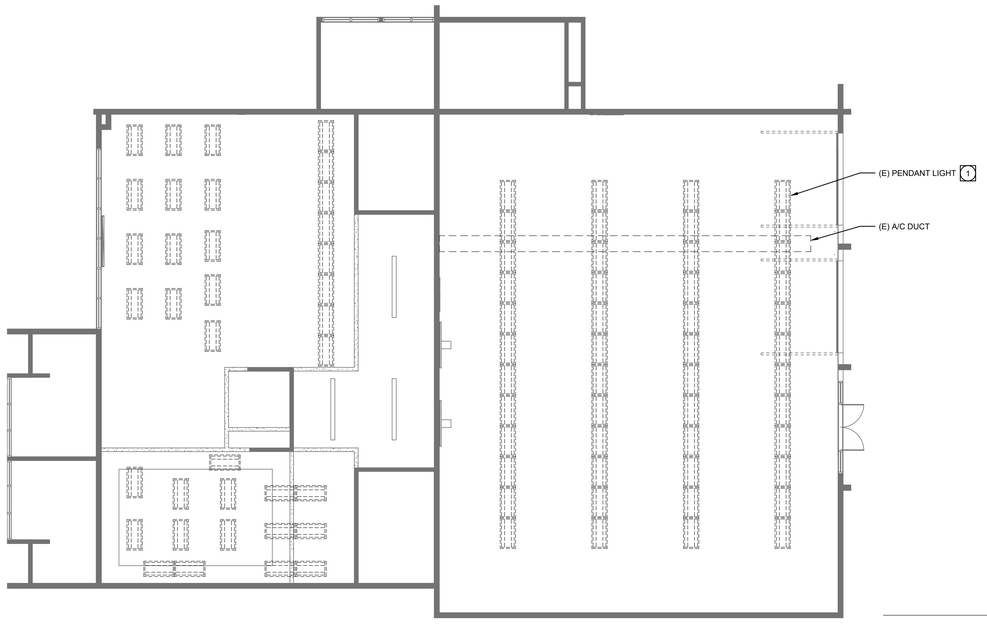


EXISTING CONDITION - LIBRARY (BLDG. 8) DEMO FLOOR PLAN 1

1/8" = 1'-0"

NORTH



LIBRARY (BLDG. 8) REFLECTED CEILING DEMO PLAN 2

1/8" = 1'-0"

NORTH

KEYNOTES

GENERAL NOTES

1 REMOVE COMPLETE

LEGEND

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REGISTRATION/SIGNATURE:

SHEET TITLE:
LIBRARY REFLECTED CEILING/FLOOR PLAN DEMO. BLDG. 8

SHEET NUMBER:
ED101

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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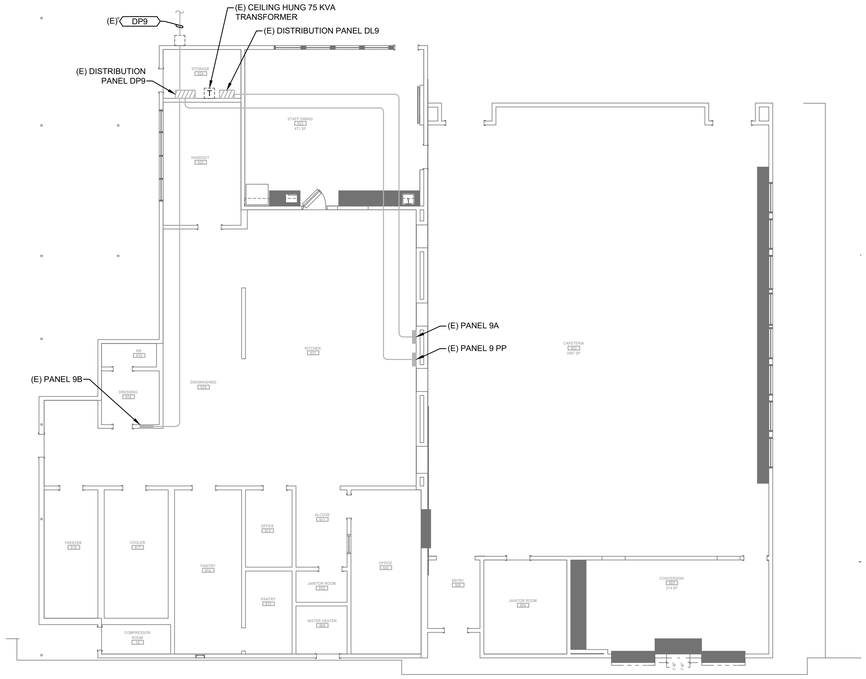
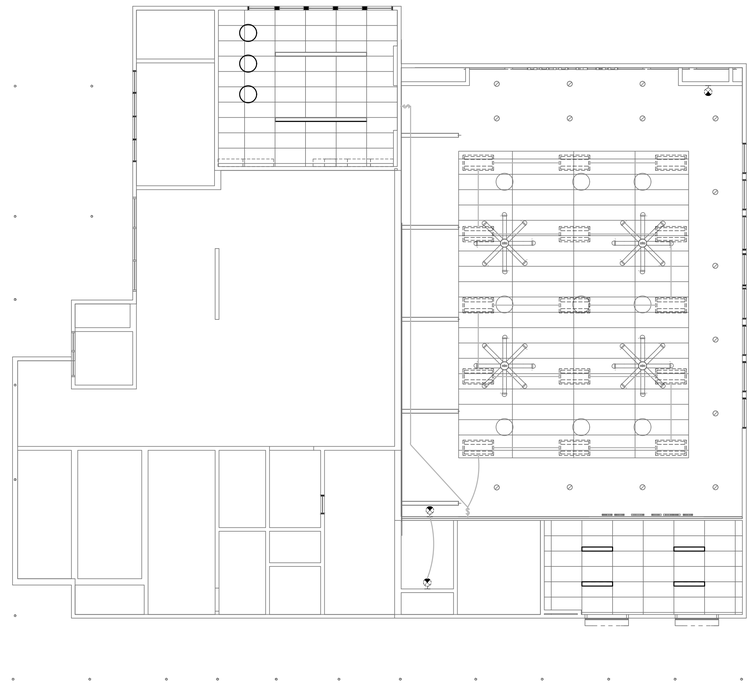


EXISTING CONDITION - CAFETERIA (BLDG. 9) FLOOR PLAN | 1 | 1/8" = 1'-0"



EXISTING CONDITION - CAFETERIA (BLDG. 9) REFLECTED CEILING PLAN | 2 | 1/8" = 1'-0"

NORTH

KEYNOTES

GENERAL NOTES

1 XXX

LEGEND

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P.T.N. _____-____

REGISTRATION/SIGNATURE:

SHEET TITLE:
(E) CONDITION CAFE. REFLECTED CEILING/ FLOOR PLAN (BLDG 9)

SHEET NUMBER:
ED102

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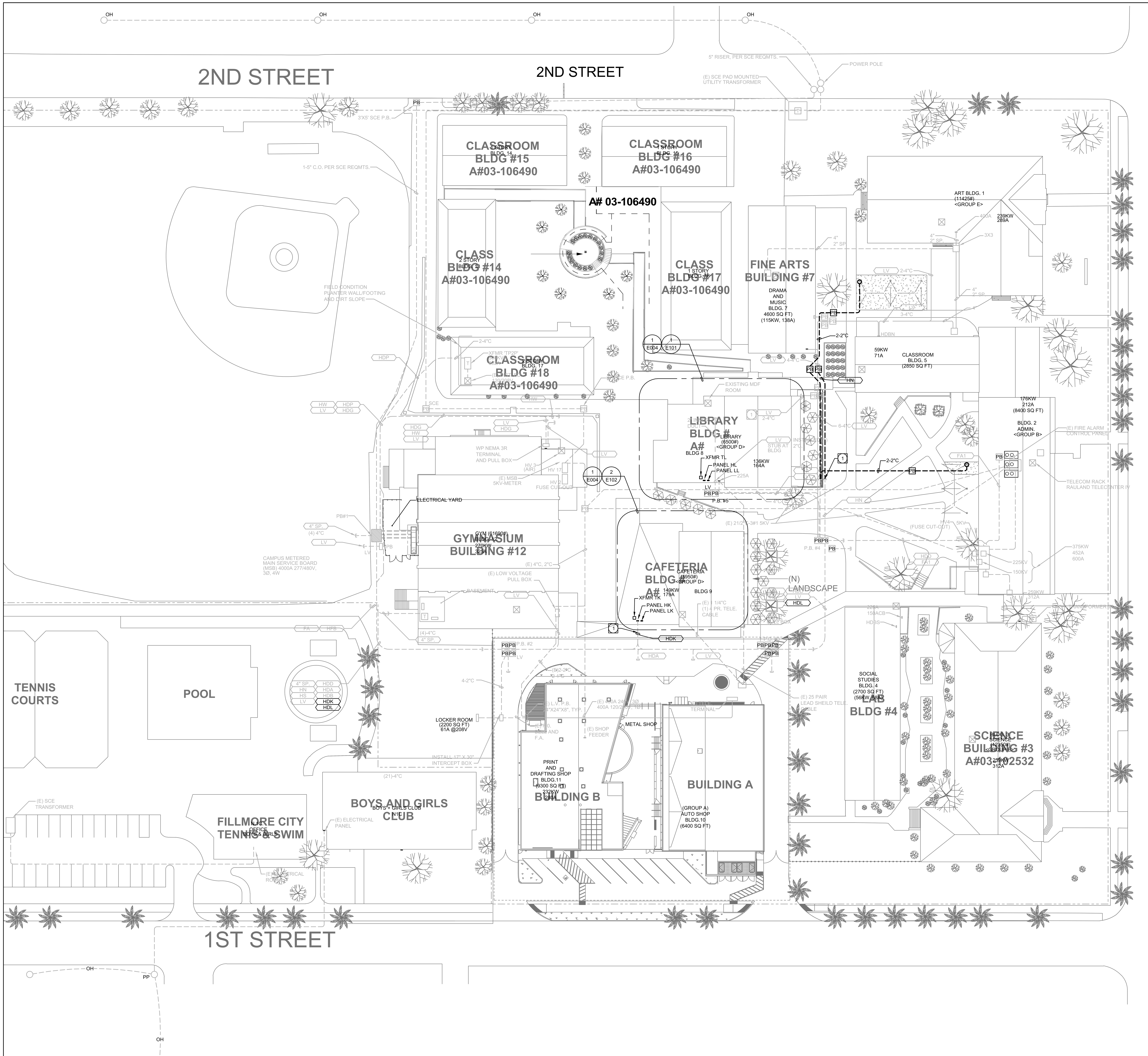

ENLARGED OVERALL SITE PLAN 1
1" = 30'-0"
NORTH

KEYNOTES

- LV (4)-2"C.O. + (1)-4"C.O. SPARE
  - FIRE ALARM
  - DATA
  - COMMUNICATION
  - SECURITY
- 4" SP. 4" CONDUIT ONLY WITH PULL STRING.
- 4" SP. (2) INDICATES QUANTITY OF CONDUITS.
- F.A. 2-2"C.O.
- F.A. 1 1-1"C. PULL IN CABLE FOR FIRE ALARM SYSTEM INTERCONNECTION.

CONDUIT SCHEDULE

HDA	(4) - 4"C
HDB	(6) - 4"C
HDC	(2) - 4"C
HDD	(4) - 4"C
HN	(4) - 4"C
HS	(2) - 4"C
HW	(2) - 4"C
HDP	(2) - 4"C
HDG	(4) - 4"C
4" SP.	(4) - 4"C
HFB	(2) 4"
LV	(4) - 2"C AND (1) - 4"C
FA	(2) - 2"C

GENERAL NOTES

1. INTERCEPT AND EXTEND EXISTING UNDERGROUND CONDUIT ONLY.

LEGEND

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SHEET TITLE:
OVERAL ELECTRICAL SITE PLAN

SHEET NUMBER:
E100

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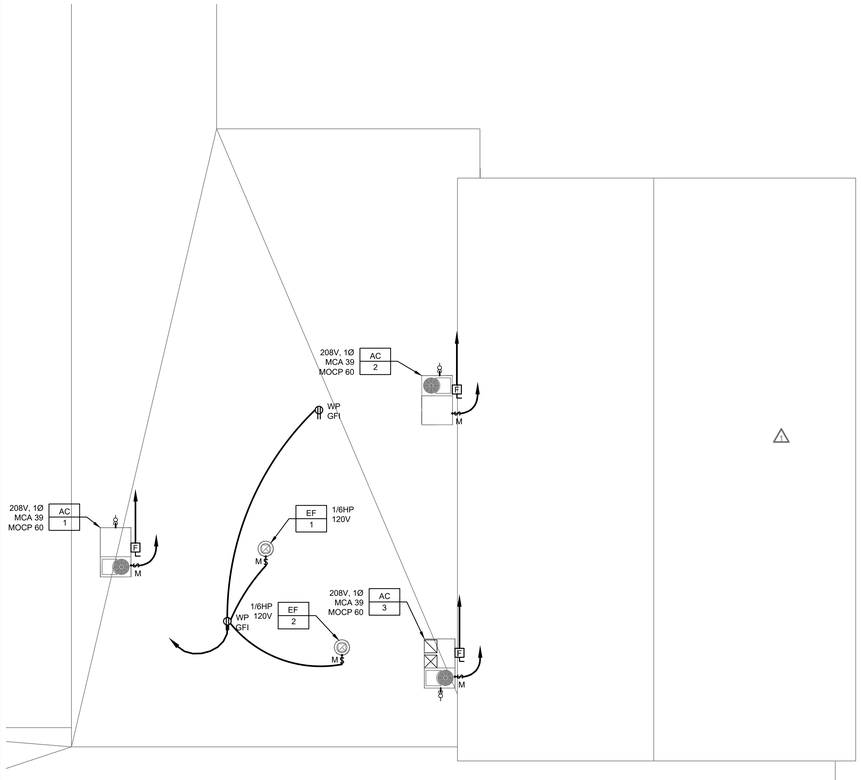
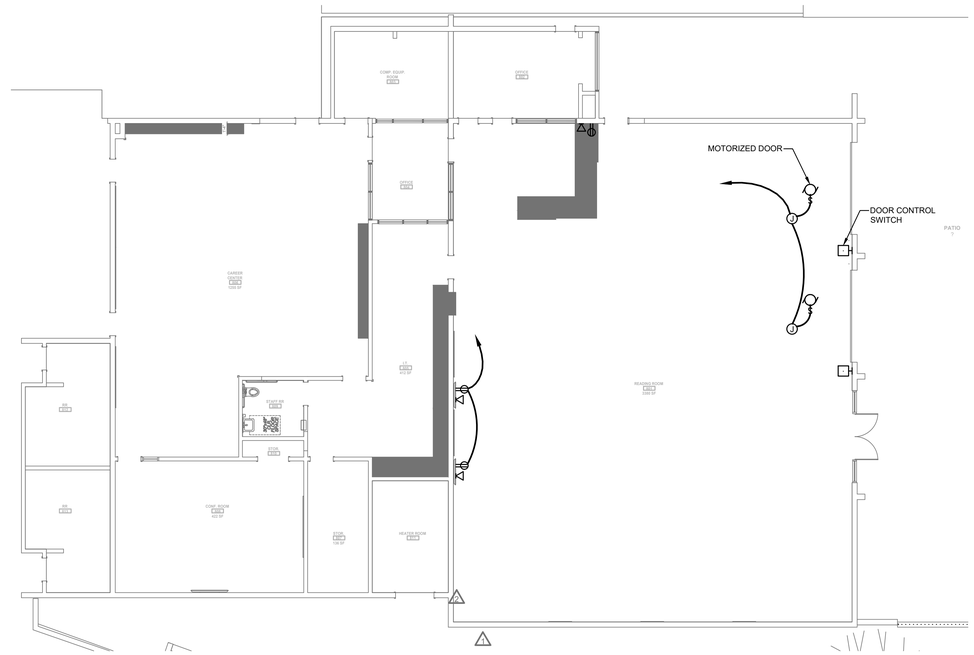


LIBRARY (BLDG. 8) ROOF PLAN 2

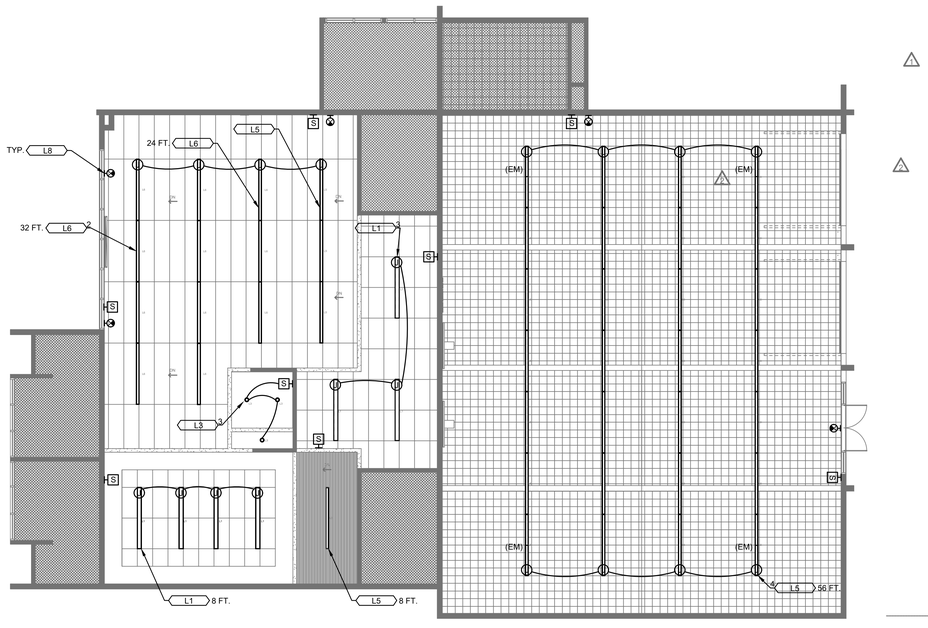
1/8" = 1'-0"



LIBRARY (BLDG. 8) FLOOR PLAN 1

1/8" = 1'-0"

NORTH



LIBRARY (BLDG. 8) REFLECTED CEILING PLAN 2

1/8" = 1'-0"

NORTH

KEYNOTES

1. EXISTING HVAC UNIT TO BE REPLACED.
2. MOUNT RECEPTACLE FOR PROJECTOR POWER.

GENERAL NOTES

LEGEND

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FILLMORE UNIFIED SCHOOL DISTRICT

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REGISTRATION/SIGNATURE:

SHEET TITLE:
LIBRARY REFLECTED CEILING/FLOOR PLAN BUILDING 8

SHEET NUMBER:
E101

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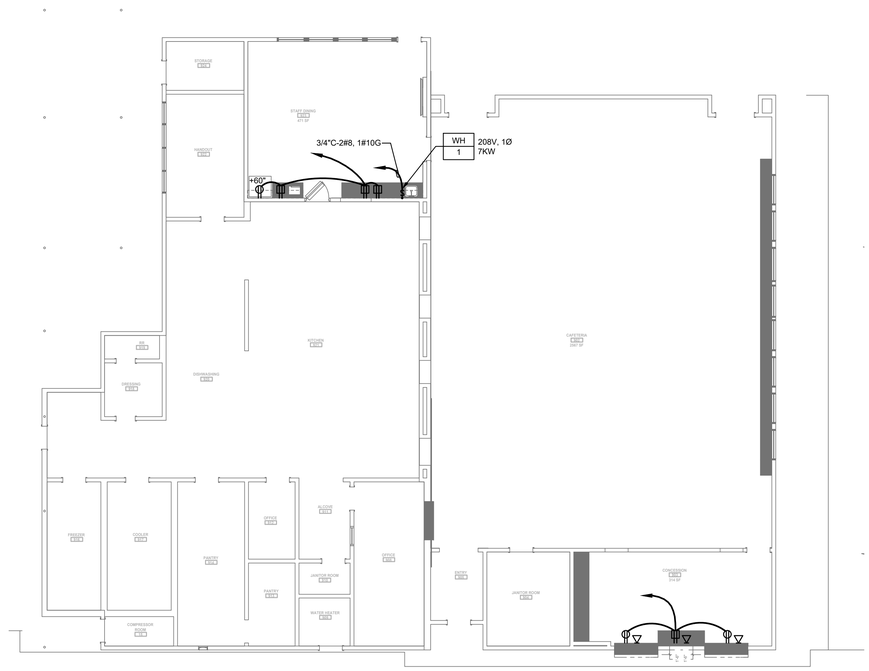
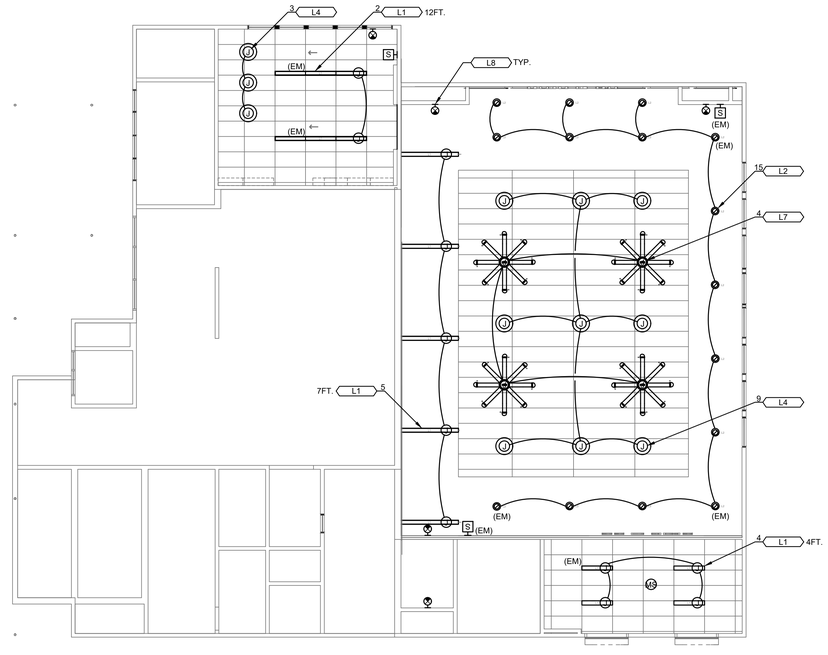


CAFETERIA (BLDG. 9) FLOOR PLAN | 1 | 1/8" = 1'-0"



CAFETERIA (BLDG. 9) REFLECTED CEILING PLAN | 2 | 1/8" = 1'-0"

NORTH

KEYNOTES

GENERAL NOTES

1 XXX

LEGEND

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REGISTRATION/SIGNATURE:

SHEET TITLE:
CAFETERIA REFLECTED CEILING/ FLOOR PLAN (BLDG. 9)

SHEET NUMBER:
E102

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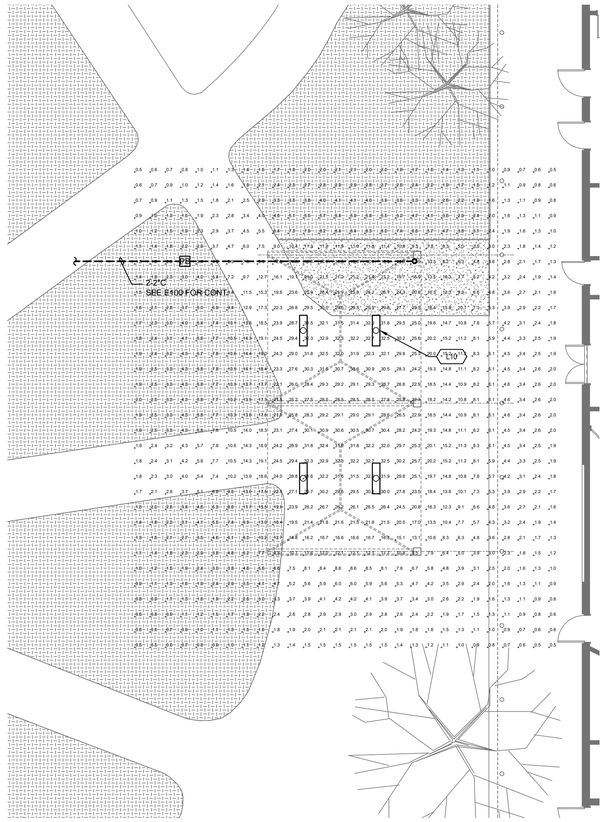
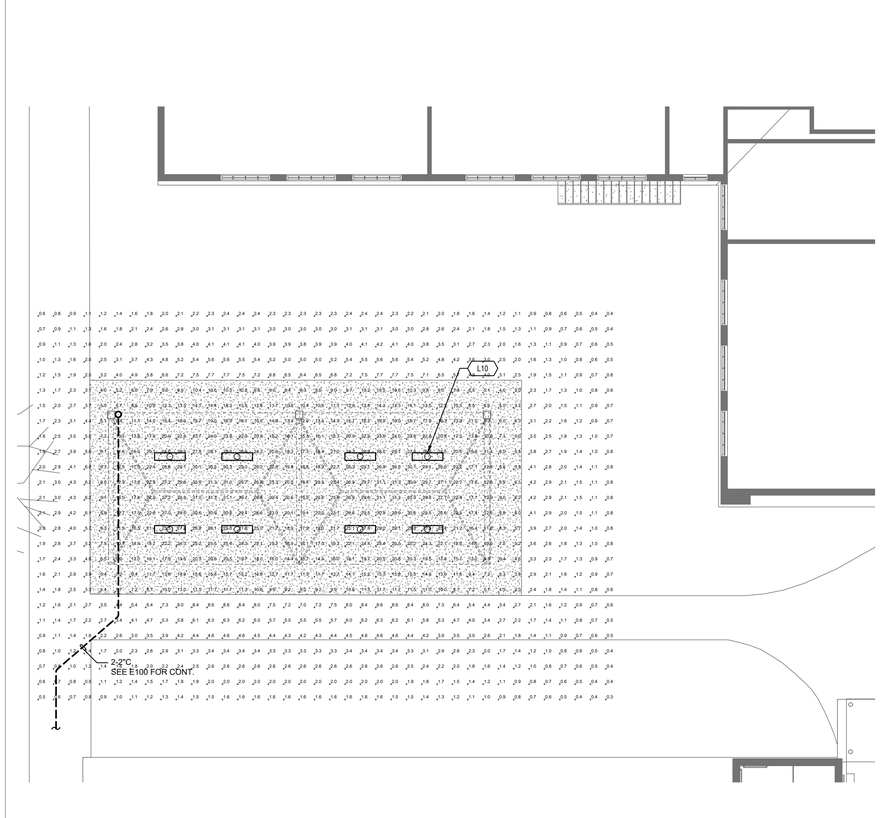
SHEET KEYNOTES



ENLARGED ADMIN. BUILDING YARD | 4 | 1/8" = 1'-0"



ENLARGED ART BUILDING YARD | 1 | 1/8" = 1'-0"

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REGISTRATION/SIGNATURE:

SHEET TITLE:

ENLARGED SITE PLANS

SHEET NUMBER:

E201

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20624	Author	Checker	01/26/2021

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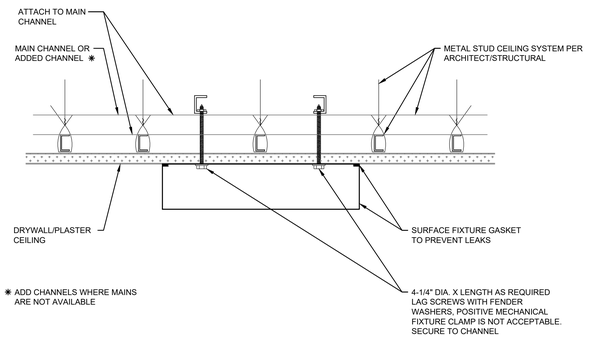
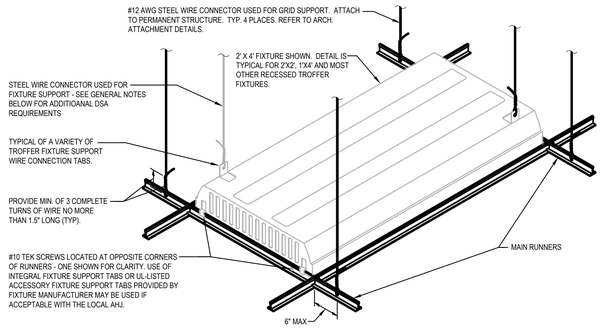


SURFACE MOUNTED FIXTURE DETAIL - GYPSUM BOARD CEILING

NOT TO SCALE | 1

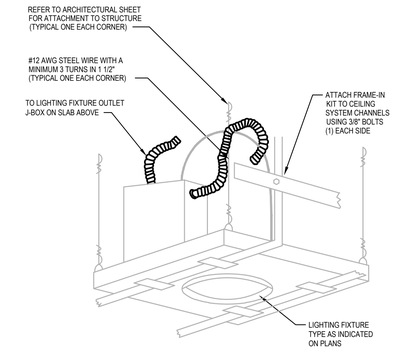


GENERAL NOTES:

1. INSTALLATION SHALL COMPLY WITH LATEST PUBLISHED EDITION OF THE "INTERPRETATION OR REGULATION MANUAL" IR 25-5 AS ISSUED BY THE DIVISION OF THE STATE ARCHITECT.
2. ATTACHMENT TO CEILING / STRUCTURE SHALL NOT AFFECT ASSEMBLY RATING.
3. FIXTURES @ LESS THAN 56 LBS: INSTALL 2#12 GA. SAFETY WIRES (SLACK.) ONE ON EACH END OF FIXTURE DIAGONALLY OPPOSED AND CONNECTED TO STRUCTURE ABOVE.
4. FIXTURES @ 56 LBS OR GREATER: INSTALL 4#12 GA SUPPORT WIRES (TAUT). ONE ON EACH CORNER OF FIXTURE CONNECTED TO STRUCTURE. WIRES SHALL SUPPORT (4) TIMES THE WEIGHT OF THE FIXTURE.
5. FIXTURES @ LESS THAN 56 LBS AND 4'X4' MIN IN SIZE: INSTALL 4#12 GA. SAFETY WIRES (SLACK) AT EACH CORNER OF THE FIXTURE.

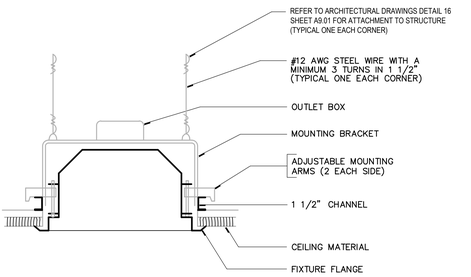
RECESSED FIXTURE SUPPORT DETAIL

NOT TO SCALE | 2



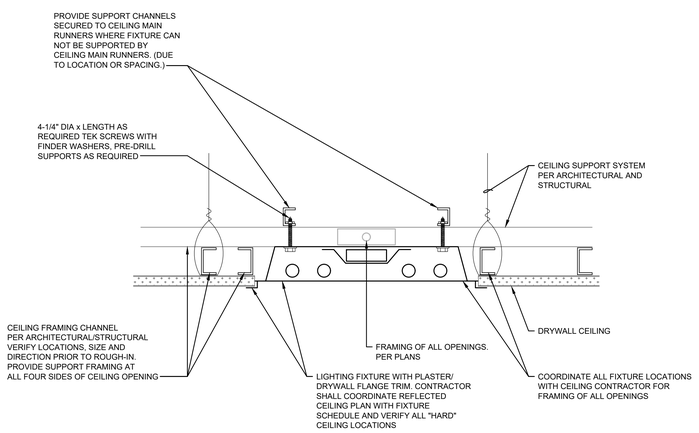
RECESSED MOUNTED DOWNLIGHT

NOT TO SCALE | 3



RECESSED MOUNTED FIXTURE - HARD CEILING

NOT TO SCALE | 4



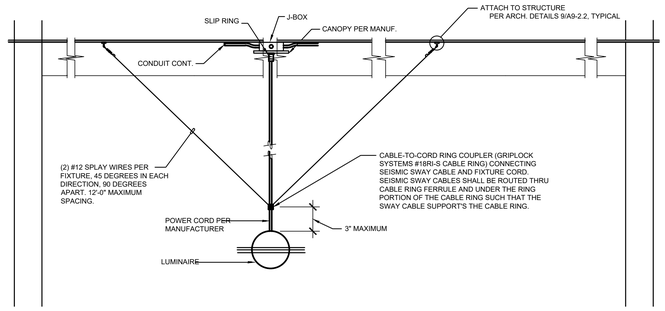
✱ PROVIDE FIRE RATED 1 HOUR ENCLOSURE AROUND FIXTURE AT FIRE RATED CEILING, TYPICAL.

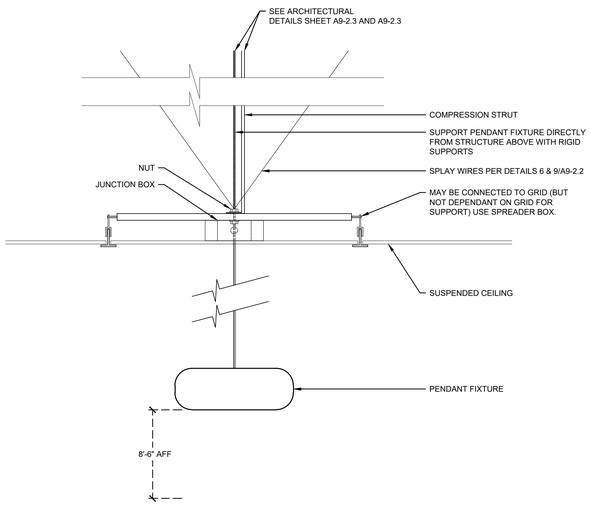
RECESSED FIXTURE IN GYPBOARD CEILING

NOT TO SCALE | 5

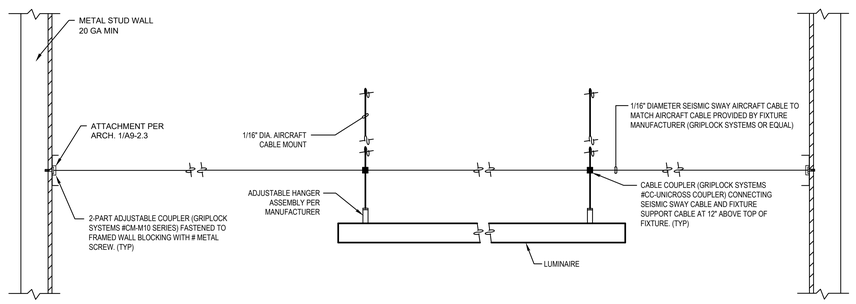
NOTES:

1. SUSPENSION SYSTEMS FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY D.S.A., OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS SHALL BE ASSUMED TO COMPLY WITH THE LATERAL-FORCE REQUIREMENTS OF 2010 C.B.C. SECTION 1614A & CHAPTER 13, ASCE 7-05. IF FIXTURES CANNOT SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS. PROVIDE ALL COMPONENTS NECESSARY AND APPROVED FOR A COMPLETE CODE-COMPLIANT AIRCRAFT CABLE-BASED FIXTURE SEISMIC BRACING SYSTEM TO LIMIT MOVEMENT OF CABLE/CORD HUNG FIXTURES. CABLE BRACING SYSTEM SHALL NOT BE DRAWN TAUT TO AVOID DAMAGING THE BRACING SYSTEM DURING WALL MOVEMENT CAUSED BY EARTHQUAKES. ADJUST TENSION PER BRACING SYSTEM MFGR RECOMMENDATIONS.
2. CONTRACTOR TO VERIFY EXACT AIRCRAFT CABLE LENGTHS AND FIXTURE MOUNTING HEIGHTS ABOVE FINISH FLOOR. INCLUDE ALL COSTS IN BASE TO PROVIDE FIXTURE SEISMIC SWAY BRACING SYSTEM DESCRIBED IN NOTE 1 ABOVE AS REQUIRED.
3. SUPPORT TYPICAL FOR FEED & NON FEED POINT (WITHOUT J-BOX AND FLEX)
4. SHOULD A CONFLICT OCCUR BETWEEN FIXTURE SUPPORT DETAIL AND HVAC DUCT ROUTING, EC SHALL INCLUDE ALL COSTS IN BASE BID TO PROVIDE A UNISTRUT "TRAPEZE" WITH 3/8" DIA THREADED ROD HANGERS AROUND THE HVAC DUCT OR OTHER OBSTRUCTION. TRAPEZE SHALL BE SUBMITTED TO PROJECT STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OR ORDERING TRAPEZE MATERIAL.
5. MOUNT FIXTURE CANOPY AS HIGH AS POSSIBLE OR TO UNISTRUT IF NECESSARY. UNISTRUT SHOWN PARALLEL TO FIXTURE FOR EASE OF DEPICTION. PROVIDE UNISTRUT LENGTH AND ORIENTATION AS REQUIRED FOR COMPLETE-APPROVED FIXTURE INSTALLATION.





PENDANT LIGHTING FIXTURE CONNECTION DETAIL



NOTES:

1. PROVIDE ALL COMPONENTS NECESSARY AND APPROVED FOR A COMPLETE CODE-COMPLIANT AIRCRAFT CABLE SEISMIC BRACING SYSTEM TO LIMIT MOVEMENT OF CABLE HUNG FIXTURES. CABLE BRACING SYSTEM SHALL NOT BE DRAWN TAUT TO AVOID DAMAGING THE BRACING SYSTEM DURING WALL MOVEMENT CAUSED BY EARTHQUAKES. ADJUST TENSION PER BRACING SYSTEM MFGR RECOMMENDATIONS.
2. SUSPENSION SYSTEMS FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY D.S.A., OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS SHALL BE ASSUMED TO COMPLY WITH THE LATERAL-FORCE REQUIREMENTS OF 2010 C.B.C. SECTION 1614A & CHAPTER 13, ASCE 7-05. UNLESS THE CABLE-TYPE, FREE-SWINGING SUSPENSION SYSTEMS SHALL HAVE A SAFETY WIRE OR CABLE ATTACHED TO THE FIXTURE AND STRUCTURE AT EACH SUPPORT CAPABLE OF SUPPORTING (4) FOUR TIMES THE SUPPORTED LOAD MINIMUM.
3. SUPPORT TYPICAL FOR FEED & NON FEED POINT (WITHOUT J-BOX AND FLEX)
4. SHOULD A CONFLICT OCCUR BETWEEN FIXTURE SUPPORT DETAIL AND HVAC DUCT ROUTING, EC SHALL INCLUDE ALL COSTS IN BASE BID TO PROVIDE A UNISTRUT "TRAPEZE" WITH 3/8" DIA THREADED ROD HANGERS AROUND THE HVAC DUCT OR OTHER OBSTRUCTION. TRAPEZE SHALL BE SUBMITTED TO PROJECT STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OR OF ORDERING TRAPEZE MATERIAL.
5. UNISTRUT SHOWN PARALLEL TO FIXTURE FOR EASE OF DEPICTION. PROVIDE UNISTRUT LENGTH AND ORIENTATION AS REQUIRED FOR COMPLETE-APPROVED FIXTURE INSTALLATION.

SEISMIC SWAY BRACING DETAIL FOR CABLE SUSPENDED LIGHTING FIXTURES

NOT TO SCALE | 6

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

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SHEET NUMBER:

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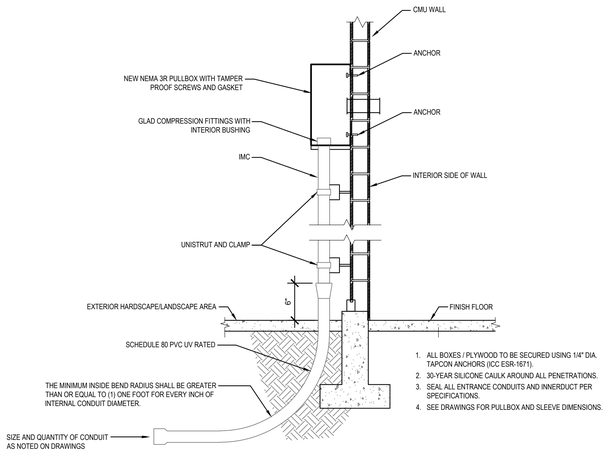
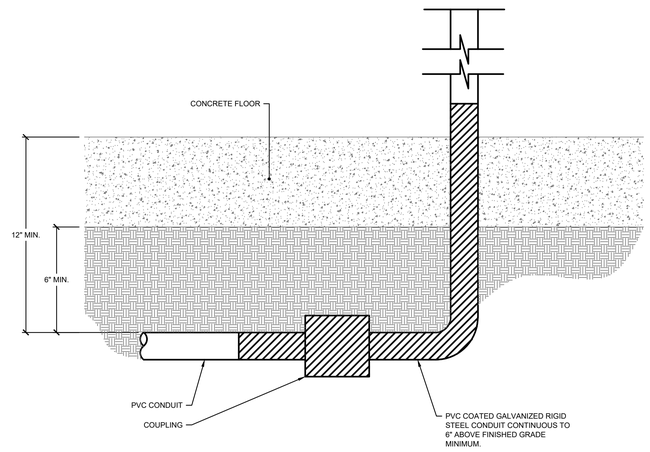


1. ALL BOXES / PLYWOOD TO BE SECURED USING 1/4" DIA. TAPCON ANCHORS (ICC ESR-1671).
2. 30-YEAR SILICONE CAULK AROUND ALL PENETRATIONS.
3. SEAL ALL ENTRANCE CONDUITS AND INNERDUCT PER SPECIFICATIONS.
4. SEE DRAWINGS FOR PULLBOX AND SLEEVE DIMENSIONS.

SURFACE MOUNTED PULLBOX DETAIL

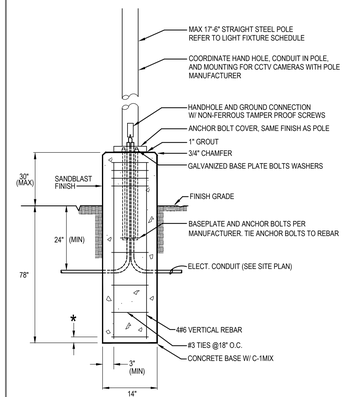
NOT TO SCALE | 1



CONDUIT INSTALLED BELOW GRADE TO ABOVE GRADE DETAIL

NOT TO SCALE | 2

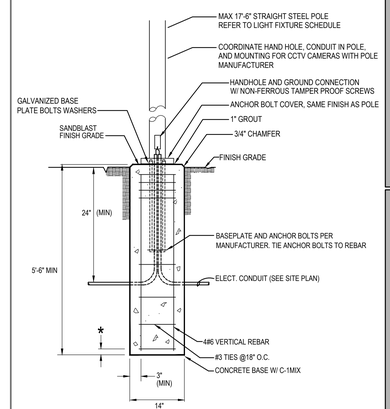
DSA IS NOT REQUIRED AND HAS NOT REVIEWED THIS LIGHT POLE LESS THAN 35'-0" IN HEIGHT ABOVE FINISH GRADE. (CAC 4-314, DSA IR A-22)



PARKING LOT POLE BASE DETAIL

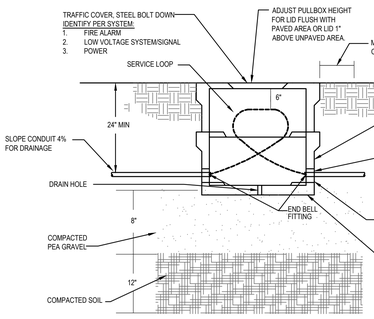
NOT TO SCALE | 3A

DSA IS NOT REQUIRED AND HAS NOT REVIEWED THIS LIGHT POLE LESS THAN 35'-0" IN HEIGHT ABOVE FINISH GRADE. (CAC 4-314, DSA IR A-22)



PARKING LOT FLUSH POLE BASE

NOT TO SCALE | 3B



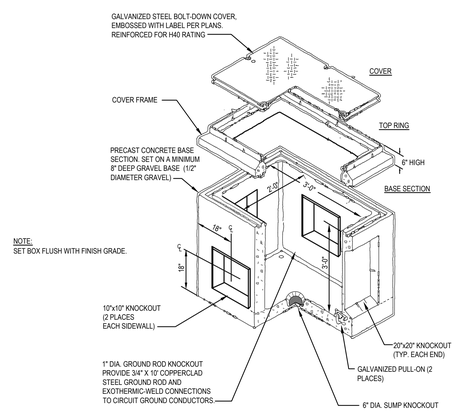
NOTE:
SET BOX FLUSH WITH ADJACENT HARDSCAPE.

PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A 12" GRAVEL BASE WITH 1" DIAMETER GRAVEL. DEPTHS PER DETAIL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. PROVIDE WATERTIGHT SPLICES AND CAPS FOR POWER CONDUCTORS.
4. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS) GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
5. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULL-BOXES.
6. PULLBOX SHALL BE SIZED PER N.E.C. REQUIREMENTS
7. SEE PULL-BOX/MAN-HOLE GROUNDING DETAIL FOR ADDITIONAL GROUNDING INFORMATION.

TYPICAL 11" x 17" x DEPTH AS REQUIRED UNDERGROUND PULL BOX

NOT TO SCALE | 4

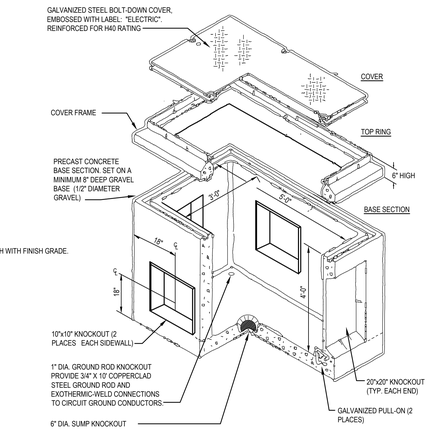


PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A MINIMUM 12" GRAVEL BASE WITH 3/8"-3/4" DIAMETER GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
4. PROVIDE IDENTIFYING TAGS ON ALL COMMUNICATION CONDUCTORS IN PULL-BOXES.
5. HAND-HOLES SHALL BE PROVIDED WITH MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULL-BOX.
6. PULL-BOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
5. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND THE QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED. WHERE 4" TERMINATORS ARE PROVIDED, CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
6. ALL "SPARE" OR UNUSED CONDUITS TO BE LOCATED ON TOP.

2' x 3' x DEPTH AS REQUIRED UNDERGROUND PULL BOX

NOT TO SCALE | 5



PULL BOX NOTES

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3. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
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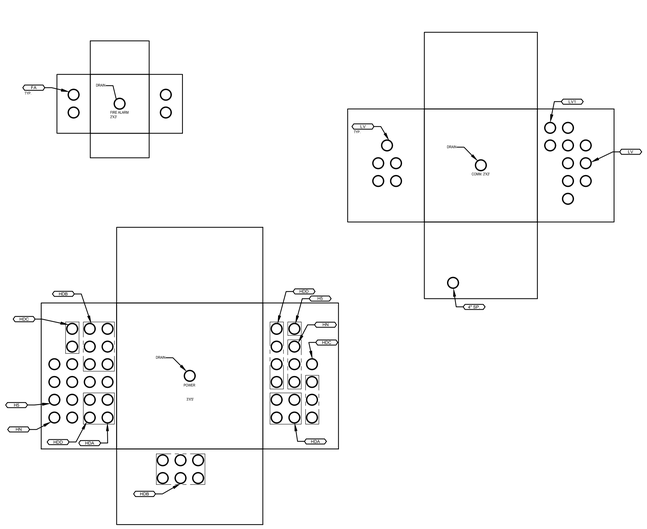
6. PULL-BOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
5. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND THE QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED. WHERE 4" TERMINATORS ARE PROVIDED, CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
6. ALL "SPARE" OR UNUSED CONDUITS TO BE LOCATED ON TOP.

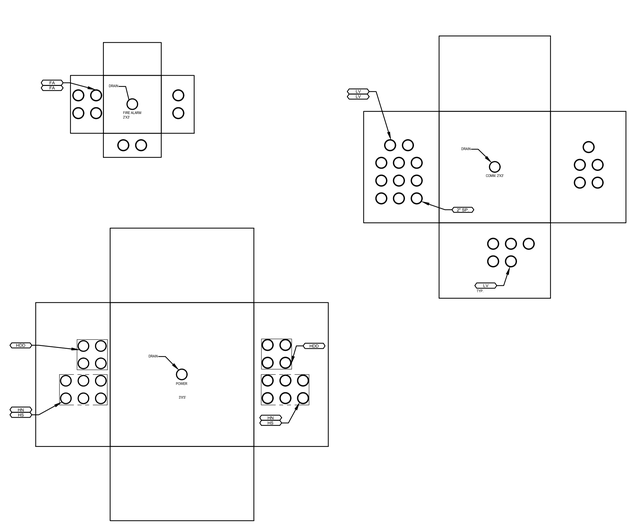
3' x 5' x DEPTH AS REQUIRED UNDERGROUND PULL BOX

NOT TO SCALE | 6



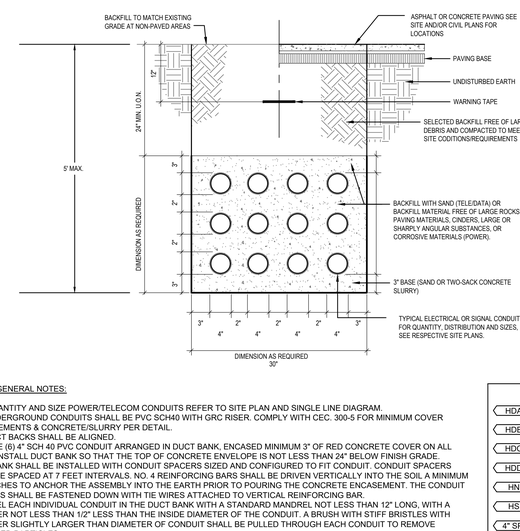
PULL BOX #2 DETAIL

NOT TO SCALE | 7



PULL BOX #3 DETAIL

NOT TO SCALE | 8



PULL BOX - GENERAL NOTES:

1. FOR QUANTITY AND SIZE POWER/TELECOM CONDUITS REFER TO SITE PLAN AND SINGLE LINE DIAGRAM.
2. ALL UNDERGROUND CONDUITS SHALL BE PVC SCH40 WITH GRC RISER. COMPLY WITH CEC. 300-5 FOR MINIMUM COVER REQUIREMENTS & CONCRETE/SLURRY PER DETAIL.
3. ALL DUCT BACKS SHALL BE ALIGNED.
4. PROVIDE (6) 4" SCH 40 PVC CONDUIT ARRANGED IN DUCT BANK, ENCASED MINIMUM 3" OF RED CONCRETE COVER ON ALL SIDES. INSTALL DUCT BANK SO THAT THE TOP OF CONCRETE ENVELOPE IS NOT LESS THAN 24" BELOW FINISH GRADE.
5. DUCT BANK SHALL BE INSTALLED WITH CONDUIT SPACERS SIZED AND CONFIGURED TO FIT CONDUIT. CONDUIT SPACERS SHALL BE SPACED AT 7 FEET INTERVALS. NO. 4 REINFORCING BARS SHALL BE DRIVEN VERTICALLY INTO THE SOIL A MINIMUM OF 6 INCHES TO ANCHOR THE ASSEMBLY INTO THE EARTH PRIOR TO POURING THE CONCRETE ENCASEMENT. THE CONDUIT SPACERS SHALL BE FASTENED DOWN WITH TIE WIRES ATTACHED TO VERTICAL REINFORCING BAR.
6. MANDREL EACH INDIVIDUAL CONDUIT IN THE DUCT BANK WITH A STANDARD MANDREL NOT LESS THAN 12" LONG, WITH A DIAMETER NOT LESS THAN 1/2" LESS THAN THE INSIDE DIAMETER OF THE CONDUIT. A BRUSH WITH STIFF BRISTLES WITH DIAMETER SLIGHTLY LARGER THAN DIAMETER OF CONDUIT SHALL BE PULLED THROUGH EACH CONDUIT TO REMOVE LOOSENED PARTICLES.
7. PROVIDE A "MULE TAPE" OR EQUAL INSTALLED WITHIN CONDUIT, WITH STRENGTH OF 2500LBS. MULE TAPE SHALL BE OF SUFFICIENT LENGTH TO PREVENT THE ROPE FROM SLIPPING BACK INTO THE CONDUIT.
8. EXTEND CONDUIT TO STICK-OUT OF DUCT BANK (FOR FUTURE CONDUIT EXTENSION) AND PROVIDE CONDUIT CAPS.
9. SLOPE CONDUIT DUCT BANK DOWNWARD AWAY FROM BUILDINGS AT A MINIMUM GRADE OF 2.5" PER 100 FEET.
10. BACK FILL DUCT BANK ONLY AFTER CONCRETE ENCASEMENT HAS COMPLETELY CURED.
11. DO NOT CUT EXISTING FOUNDATION ELEMENTS.

CONDUIT SCHEDULE

HDA	(4) - 4"C
HDB	(6) - 4"C
HDC	(2) - 4"C
HDD	(4) - 4"C
HN	(4) - 4"C
HS	(2) - 4"C
4" SP	(1) - 4"C
LV	(4) - 2"C AND (1) - 4"C
FA	(2) - 2"C

UNDERGROUND DUCT BANK SECTION

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555 CENTRAL AVE.
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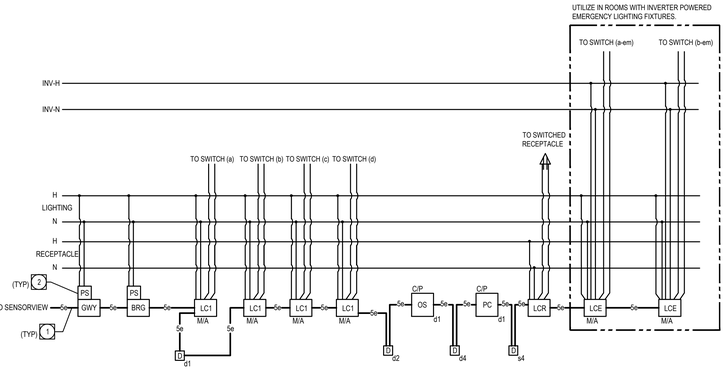
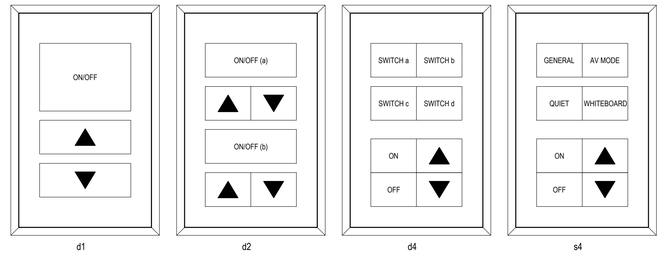
LIGHTING CONTROL SYSTEM KEYNOTES:

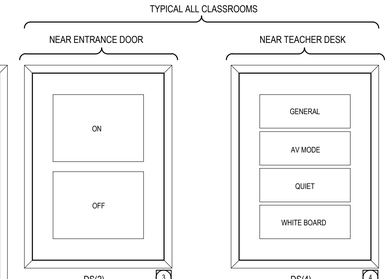
1. CLASS II CAT-5e NON-BOOTED NETWORK CABLE CONNECTION WITH RJ45 COUPLINGS
2. POWER SUPPLY PROVIDED WITH EQUIPMENT.
3. LOW VOLTAGE ENTRY KEY PAD - nLIGHT #PODM (COORDINATE DEVICE FINISH WITH ARCHITECT).
4. LOW VOLTAGE SCENE SELECTOR - nLIGHT #PODM-2SB (COORDINATE DEVICE FINISH WITH ARCHITECT)

LIGHTING CONTROL SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.







NOTE: WIRING DIAGRAM IS DIAGRAMMATIC AND IS INTENDED TO DEMONSTRATE GENERIC WIRING TOPOLOGY. REFER TO LIGHTING PLANS AND INDIVIDUAL ROOMS FOR QUANTITY, LOCATION AN D TYPES OF DEVICES REQUIRED FOR EACH SPACE. PROVIDE DIMMER CONTROL CONDUCTORS AS REQUIRED. REFER TO COVER SHEET SYMBOLS LIST FOR DEVICE SPECIFICATIONS U.O.N..

NOTE: ALL EXPOSED LOW VOLTAGE WIRING ROUTED IN THE ACCESSIBLE CEILING IS REQUIRED TO BE PLENUM RATED.

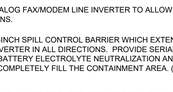
LIGHTING CONTROL SEQUENCE OF OPERATION (CLASSROOMS)

POWER STATUS	WALL CONTROL BUTTON	PENDANT LIGHTING		WHITE BOARD	OCCUPANCY SENSOR (OCCUPIED)	OCCUPANCY SENSOR (UNOCCUPIED)	PHOTOCELL
NORMAL POWER	GENERAL	100%		OFF	ON	ALL LTG. OFF	WHEN PHOTOCELL DETECTS 50 OR MORE FOOT-CANDLES TURN OFF 50% OF LIGHTING
	A/V MODE	50%	F/M/B *	OFF	ON		
	QUIET	50%		OFF	OFF		
	WHITEBOARD	NA		100%	NA		

* = F/M/B (FRONT/MIDDLE/BACK) FIXTURES ARE TO BE SWITCHED ON TO 50% DURING AV MODE - OTHER SIX (6) FIXTURES ARE TO BE SWITCHED OFF.

LIGHTING CONTROL WIRING DIAGRAM

NOT TO SCALE | 1



LIGHTING CONTROL SYSTEM KEYNOTES:

1. PROVIDE 3#18 AWG. WIRES ROUTED IN 3/4" CONDUIT.
2. ROOF MOUNTED NORTH FACING PHOTOCELL. SYNERGY #LSA-APS-OL

LIGHTING CONTROL SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.
5. COORDINATE TIME-CLOCK AND CONTROL SCHEDULES AND SEQUENCING WITH OWNER PRIOR TO FINALIZING COMMISSIONING OF THE LIGHTING CONTROL SYSTEM.

RELAY SCHEDULE

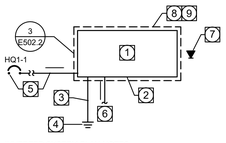
LOCATION: STORAGE ROOM #313 — LCP NAME: LCP1

RELAY #	PANEL NAME	CIRCUIT	DESCRIPTION	CONTROL METHOD
1	HB	-	PARKING LOT LTG	-
2	INV-A	2	POST TOPS	-
3	LA	25,27	TREE UP LTG	-
4	-	-	BLDG LIGHTS	-
5	INV-A	4	STEP LTG	-
6	INV-B	2,4	STEP LTG	-

SYNERGY #SPAK-4S-277 (PROVIDE WITH UL 924 BARRIER BETWEEN NORMAL AND EMERGENCY RELAYS)

LIGHTIING CONTROL PANEL WIRING DIAGRAM

NOT TO SCALE | 2



MYERS #6-EM-4-S-BD2006-S-T-Z-2YW

INVERTER INV-A, TYPICAL FOR INV-B (INSTALLED IN BUILDING ELEC. RM.)

INPUT VOLTAGE	277V	OUTPUT VOLTAGE	277V	KW	5kW(B) / 12.5kW(A)
INPUT PHASE	1PH	OUTPUT PHASE	1PH	REMOTE CONTROL	NO
INPUT WIRE	2W	OUTPUT WIRE	2W	REMOTE ALARM	YES

NOTES	DESCRIPTION	WATTS	LTG	GEN	KIT	LCL	MIS	BRKR	CIRC	PHASE	CIRC	BRKR	MIS	LCL	KIT	GEN	LTG	WATTS	DESCRIPTION	NOTES
LC	SOFFIT 1ST	800	-	-	-	-	-	20/1	1	A	2	20/1	-	-	-	-	9	450	POST TOP	LC
-	- -	800	-	-	-	-	-	20/1	3	A	4	20/1	-	-	-	-	9	200	STEP LTGS	LC
LC	SOFFIT 2ND	800	-	-	-	-	-	20/1	5	A	6	20/1	1	-	-	-	-	900	GATE CONTROLLER	-
-	- -	800	-	-	-	-	-	20/1	7	A	8	20/1	1	-	-	-	-	900	CCTV AMP	-
LC	AUTO REPAIR		-	-	-	-	-	20/1	9	A	10	20/1	-	-	-	-	-	-	SPARE	-
-	- -							20/1	11		12	20/1							- -	

TOTAL WATTS = 2,667W — AMPS = 9.7A — LCL = 12.2A

INVERTER BATTERY SCHEDULE

1. BATTERY TYPE: DRY
2. CHEMICALS IN BATTERIES:

COMMON NAME	CHEMICAL NAME	%	CAS #	MATERIAL FORM	QUANTITY STORED	QUANTITY IN USE	LOCATION	HAZARD CLASSES
GRID	LEAD	34%	7439-921	SOLID	N/A	CLOSED	-	TARGET ORGAN
LEAD OXIDE	LEAD DIOXIDE	31%	1309-60-0	SOLID	N/A	CLOSED	-	CORROSIVE / TOXIC/ TARGET ORGAN / CLASS 1 WATER REACTIVE
ANGLESITE	LEAD SULFATE	<1%	7446-14-2	SOLID	N/A	CLOSED	-	CORROSIVE / TOXIC/ TARGET ORGAN / CLASS 1 WATER REACTIVE
BATTERY ELECTROLYTE	SULFURIC ACID	34%	7446-93-9	LIQUID	N/A	CLOSED	-	CORROSIVE / TOXIC/ TARGET ORGAN / CLASS 1 WATER REACTIVE

3. NUMBER OF BATTERIES: 6 BATTERIES
4. LIQUID GALLON CAPACITY OF EACH BATTERY: 1.08 GALLONS
5. TOTAL SYSTEM GALLON CAPACITY: 6.48 GALLONS
6. BATTERY STORAGE LOCATION / METHOD: IN INVERTER / METAL CABINET
7. REASON FOR BATTERY USE: ALTERNATE POWER SOURCE FOR EMERGENCY LIGHTING

LC - CONNECT TO LC - LIGHTING CONTROL PANEL.

INVERTER SYSTEM SCHEMATIC:

INVERTER SYSTEM PLAN NOTES:

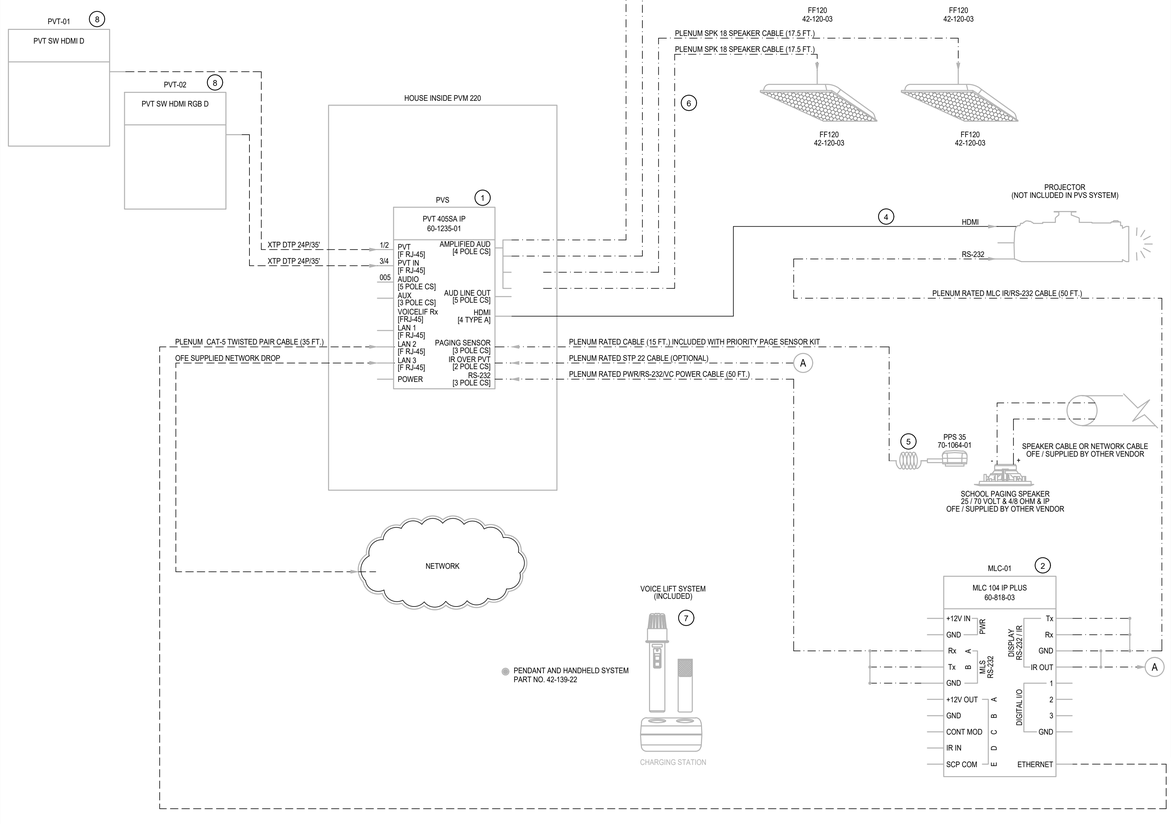
1. INVERTER ELECTRONICS CABINET PER INVERTER SCHEDULE AND SYSTEM SPECIFICATIONS. INVERTER BATTERY STRING CABINET(S) - QUANTITY AS REQUIRED TO PROVIDE CODE REQUIRED BACK-UP TIME. INDIVIDUAL BATTERY STRINGS SHALL BE CONNECTED IN PARALLEL FOR ADDED REDUNDANCY.
2. PROVIDE ALL REQUIRED SEISMIC BRACING, AS REQUIRED BY LOCAL CODE. IF LOCATED ON A RAISED FLOOR, PROVIDE CUSTOM MOUNTING FRAME SUCH THAT THE RAISED FLOOR DOES NOT SUPPORT THE INVERTER EQUIPMENT.
3. GROUNDING ELECTRODE CONDUCTOR PER CEC 250-30 - 1/2"C, 1#10AWG CU G.
4. INVERTERS CONSIDERED TO BE SEPARATELY DERIVED SYSTEMS BY THE AUTHORITY HAVING JURISDICATION (AHJ) SHALL BE GROUNDED PER NEC, CEC WHERE ADOPTED, ARTICLE 250-30.
5. INVERTER INPUT - SEE PLANS FOR PANEL AND CIRCUIT INFORMATION. PROVIDE HACR INPUT CIRCUIT BREAKERS OR INPUT CIRCUIT BREAKER TYPE AS RECOMMENDED BY THE MANUFACTURER.
6. ROUTE TO EMERGENCY LOADS - SEE PLANS AND INVERTER SCHEDULE(S).
7. PROVIDE AN ANALOG FAX/MODEM LINE INVERTER TO ALLOW OFFSITE COMMUNICATIONS.
8. LIQUID TIGHT, 4-INCH SPILL CONTROL BARRIER WHICH EXTENDS AT LEAST 1" BEYOND THE INVERTER IN ALL DIRECTIONS. PROVIDE SERIALIZED, DOUBLE-LINED BATTERY ELECTROLYTE NEUTRALIZATION AND ABSORPTION PILLOWS THAT COMPLETELY FILL THE CONTAINMENT AREA. (ENVIROGAURD 1-800-975-4421).
9. INVERTER ROOM SHALL BE PROVIDED WITH THE FOLLOW ACCESSORIES:
   - SPILL CLEANUP AND DISPOSAL KIT WHICH CONTAINS THE FOLLOWING: 1) 5 D.O.T. GALLON CONTAINER; 2) 5 POUNDS ELECTROLYTE NEUTRALIZER; 3) PH TEST KIT; 4) GLOVES, EYE PROTECTION, 5) TYVEK COVERALL, 6) AND COMPLETE INSTRUCTIONS. LIST MAY NOT INCLUDE ALL REQUIRED ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH THE AHJ AS NECESSARY.
   - BATTERY SAFETY SIGNS AT DOOR TO THE ROOM WHERE THE EQUIP NT IS LOCATED. SIGN SHALL CONFORM TO UFC SECTION 6404.7.

INVERTER SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE, FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.

LIGHTIING CONTROL PANEL WIRING DIAGRAM

NOT TO SCALE | 4



EXTRON SYSTEM REMOVED FROM SCOPE.

CLASSROOM AV WIRING DIAGRAMS

NOT TO SCALE | 3

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DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

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Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

AG Design Inc.
Consulting Electrical Engineers
714.769.9900
www.AGDesignEng.com
171 S. Anita Dr., Ste. 111 | Orange, CA 92868

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

REVISIONS:

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DEPARTMENT OF THE STATE ARCHITECT
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DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....
P.T.N. _____-____

REGISTRATION/SIGNATURE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E502.5

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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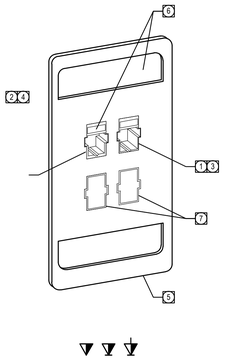
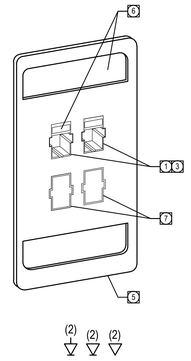
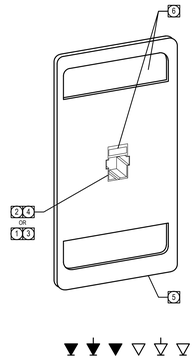
1. PROVIDE (1) CAT-6, 4-PAIR UTP CABLES TO RESPECTIVE MDF/IDF RACK. TERMINATE STATION END IN STATION CONNECTOR PER SPECIFICATIONS. TERMINATE RACK END ON DATA PATCH PANEL PER SPECIFICATION. COLOR OF CABLE PER SPECIFICATIONS.
2. PROVIDE (1) CAT-6, 4-PAIR UTP CABLES TO RESPECTIVE MDF/IDF RACK. TERMINATE STATION END IN STATION CONNECTOR PER SPECIFICATIONS. TERMINATE RACK END ON VOICE PATCH PANEL PER SPECIFICATION. COLOR OF CABLE PER SPECIFICATIONS.
3. PROVIDE CAT-6 STATION DATA CONNECTOR PER SPECIFICATIONS. COLOR PER SPECIFICATIONS.
4. PROVIDE CAT-6 STATION VOICE CONNECTOR PER SPECIFICATIONS. COLOR PER SPECIFICATIONS.
5. PROVIDE FACEPLATE PER SPECIFICATIONS. FACEPLATE MATERIAL AND FINISH SHALL MATCH ADJACENT POWER FACEPLATES, U.N.O. PROVIDE FLOOR BOX, POWER POLE AND MODULAR FURNITURE DEVICE ADAPTERS AS REQUIRED FOR A COMPLETE INSTALLATION.
6. PROVIDE FACEPLATE LABELING PER SPECIFICATIONS. SEE SPECIFICATIONS FOR ALL LABELING REQUIREMENTS.
7. BLANK INSERT PER SPECIFICATIONS. ALL UNUSED OPENINGS SHALL BE COVERED WITH A BLANK INSERT MATCHING COLOR OF THE FACEPLATE.
8. PROVIDE RG6 QUAD SHIELD COAX WITH SOLID #18 AWG COPPER CENTER CONDUCTOR AND CATV COMPRESSION CONNECTOR PER SPECIFICATIONS.
9. PROVIDE SNAP-IN "F" TYPE CATV STATION COUPLER ASSEMBLEY PER SPECIFICATIONS.
10. FLOOR BOX TERMINATION JACK PER SPECIFICATIONS.
11. DUAL PORT, SURFACE MOUNTED BOX PER SPECIFICATIONS.



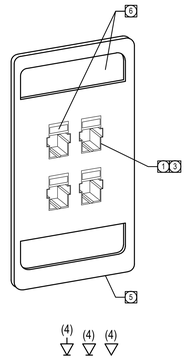
VOICE/DATA COMBINATION DEVICE | 07



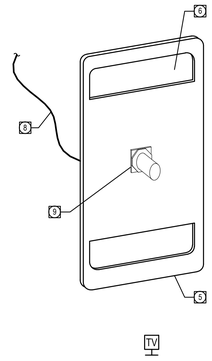
DUAL DATA DEVICE | 06



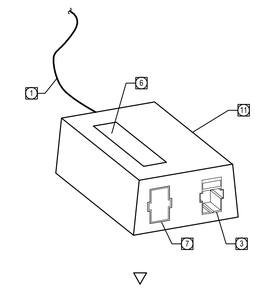
SINGLE DATA/VOICE DEVICE | 05



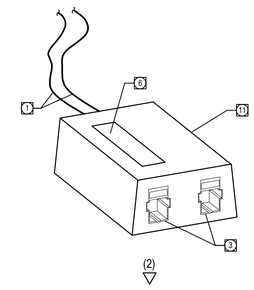
QUAD DATA DEVICE | 04



TELEVISION DEVICE | 03



ABOVE CEILING SINGLE DATA DEVICE | 02

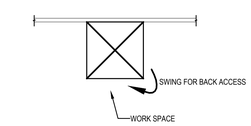


ABOVE CEILING DUAL DATA DEVICE | 01

1. DIMENSION PER CABINET SIZE. VERIFY DIMENSION PER CABINET SPECIFICATIONS.
2. 6" X 6" CUTOUT.
3. 3/4" PAINTED PLYWOOD BACKBOARD BY E.C.
4. WALL STUDS 16" ON CENTER.
5. MOUNTING KEYHOLES.
6. INSTALL 2 LAG SCREWS IN HOLES BELOW TOP KEYHOLES AFTER THE REAR FRAME HAS BEEN MOUNTED TO WALL.
7. 1/4" X 2" LAG SCREWS MINIMUM.

NOTES:

1. THE REAR FRAME MUST BE SECURED TO WALL USING (6) 1/4" X 2" LAG SCREWS. THE SCREWS ARE INTENDED TO GO THROUGH 3/4" PLYWOOD BACKBOARD INTO WOOD WALL STUDS.
2. SCS CONTRACTOR TO INSTALL CABINET TO BACKBOARD. E.C. TO INSTALL PAINTED PLYWOOD BACKBOARD. SEE SPECIFICATIONS FOR MORE INFORMATION.



04A
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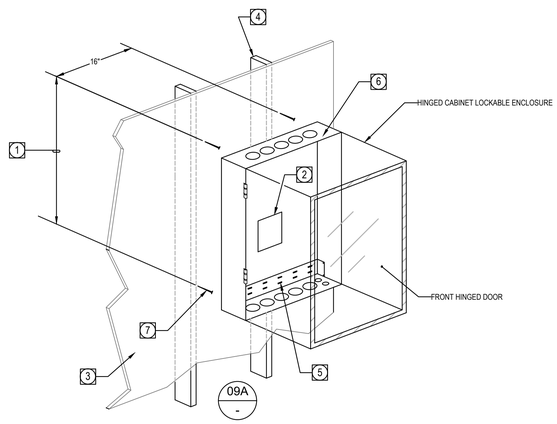
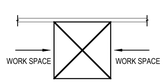
PLAN VIEW
SCALE: NONE



WALL MOUNTED IDF CABINET DETAIL | 08

1. ANSI COMPLIANT TELECOMMUNICATIONS MAIN GROUND BUSBAR (TMGB) / TELECOMMUNICATION GROUNDING BUSBAR (TGB) PER SPECIFICATIONS. SEE GENERAL TELECOMMUNICATIONS GROUNDING NOTES. PROVIDED AND INSTALLED BY E.C.
2. IRREVERSIBLE COMPRESSION CONNECTOR
3. TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR (TEBC). #6 AWG GREEN INSULATED GROUND CONDUCTOR. TYPICAL U.O.N.
4. RACK BONDING CONDUCTOR. ALL CONDUCTORS ROUTED TO TMGB/TGB.
5. INDIVIDUAL EQUIPMENT BONDING CONDUCTORS FROM EACH PIECE OF EQUIPMENT AND RACK TO THE RACK BONDING CONDUCTOR.
6. RACK BONDING CONDUCTOR EXTENDED TO BOTTOM OF RACK TO ACCOMMODATE FUTURE GROWTH.
7. RACK ISOLATION GROUND PLATES (IF APPLICABLE).
8. TOP MOUNTED RACK GROUNDING BUSBAR (RGB).
9. MINIMUM BENDING RADIUS MUST BE MAINTAINED ON ALL CONDUCTORS.
10. UNIT BONDING CONDUCTOR.
11. VERTICALLY MOUNTED RACK GROUNDING BUSBAR.
12. INDIVIDUAL EQUIPMENT GROUNDING TERMINAL. TYPICAL EACH PIECE OF EQUIPMENT.

1. GENERAL DETAIL ONLY. SCS CONTRACTOR SHALL COORDINATE WITH PLANS AND PROVIDE A COMPLETE SYSTEM. SCS CONTRACTOR SHALL COMPLY WITH ALL ANSI, EIA AND TIA STANDARDS.
2. ALL ITEMS SHALL BE PROVIDED BY SCS CONTRACTOR UNLESS OTHERWISE NOTED.
3. PROVIDE THREAD-FORMING BONDING SCREWS TO ATTACH ALL PATCH PANELS, HORIZONTAL CABLE MANAGERS, FIBER ENCLOSURES, ETC.
4. PROVIDE THREAD FORMING GROUNDING SCREWS TO ATTACH EQUIPMENT GROUND CONDUCTOR TO RACK BUSBARS.
5. ALL CONNECTIONS TO GROUND BUSBARS SHALL BE 2-HOLE COMPRESSION LUGS, UNLESS OTHERWISE NOTED.



08A
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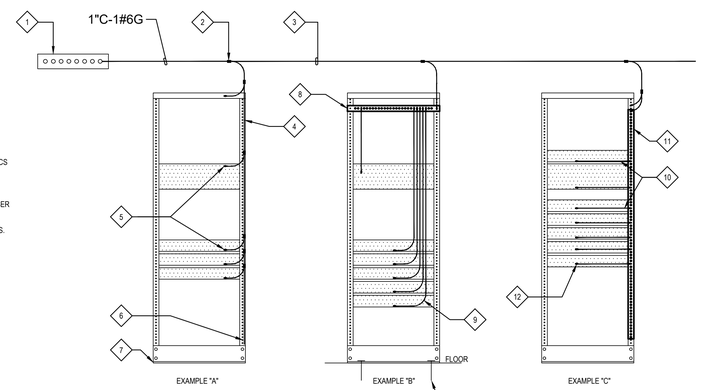
PLAN VIEW
SCALE: NONE



NOTE:
FOR RACK BASE ATTACHMENT, 5/8" DIAMETER SIMPSON STRONG BOLT 2, 3 3/8" EMBED, ESR-3037, ONE AT EACH CORNER.
NOTE:
800LBS MAX WEIGHT

LOCKABLE ENCLOSURE

08A
-

SEE SHEET 235 IN CALCULATIONS PACKAGE.

EQUIPMENT RACK GROUNDING DETAIL | 08

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19520 Jamboree Road | Suite 100
Irvine | California | 92612
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REGISTERED PROFESSIONAL ENGINEER
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ELECTRICAL
STATE OF CALIFORNIA

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171 S. Anita Dr., Ste. 111 | Orange, CA 92868

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT

555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

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P.T.N. _____-_____

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SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E502.6

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM AND ALL WIRING SHALL CONFORM TO CFC 907.2.3 ARTICLE 760 OF THE 2016 CALIFORNIA ELECTRIC CODE AND 2016 NFPA 72, WITH CA AMENDMENTS.
2. THE SYSTEM SHALL CONFORM TO CURRENT CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION AGENCY (NFPA) STANDARD 723.
3. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL AND SHALL BE COMPATIBLE AND INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. THE EXISTING FIRE ALARM SYSTEM SHALL BE PROTECTED IN PLACE, MAINTAINED AND LEFT IN OPERATION DURING THE SCOPE OF THIS PROJECT.
5. THE FIRE ALARM SYSTEM AND ROUGH-IN DEMONSTRATED ON THIS PLAN IS ALL NEW. A COMPLETE NEW FIRE ALARM INFRASTRUCTURE WILL BE INSTALLED.
6. AN APPROVED SET OF FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE DSA FIRE MARSHAL.
7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
8. ALL ANNUNCIATORS, INITIATING, AND INDICATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION, THE FIRE ALARM CONTROL PANEL.
9. WIRING SHALL NOT BE LOOPED THROUGH DEVICES AND MUST BE CUT IN AND OUT AT EACH DEVICE.
10. ONLY SIGNALING LINE CIRCUITS (SLC) MAY BE T-TAPPED TO PROVIDE LESS RESISTANCE ON THE CIRCUIT. SIGNALING LINE CIRCUITS SHALL ONLY BE T-TAPPED AT DEVICES, IN TERMINAL OR CONTROL LOCATIONS. REFER TO AND COMPLY WITH THE MANUFACTURERS REQUIREMENTS AND LIMITS FOR T-TAPPING.
11. AUDIBLE AND VISUAL DEVICES SHALL COMPLY WITH THE AUDIBILITY AND FLASH LEVELS AS SPECIFIED IN NFPA 72 AND ALL AMENDMENTS SPECIFIED IN TITLE 24. THIS INCLUDES DEVICE LOCATION AND COVERAGE. VOICE ANNOUNCEMENTS SHALL BE INTELLIGIBLE PER CHAPTER 18 NFPA 72.
12. THE AUDIBLE ALERT TONE SHALL BE CODED TEMPORAL PATTERN FOLLOWED BY A VOICE ANNOUNCEMENT. THE AUDIBLE SIGNAL SHALL HAVE A MINIMUM SOUND LEVEL OF 15 DECIBELS ABOVE THE AVERAGE AMBIENT NOISE LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL FOR A DURATION OF AT LEAST 60 SECONDS NOT TO EXCEED 110 DECIBELS AT THE MINIMUM HEARING DISTANCE. THE AUDIBLE SIGNAL SHALL BE SYNCHRONIZED THROUGH OUT THE CAMPUS.
13. AUDIBILITY WILL BE DETERMINED BY SOUND METER TESTING BY THE INSPECTOR OF RECORD.
14. INSTALL 3/4" CONDUIT MINIMUM OR SERIES V2400 WIREMOLD FOR ABOVE GROUND RACEWAY. WIREMOLD SHALL BE SIZED ACCORDING TO FILL AND EXISTING CONDITIONS. ALL SURFACE MOUNT WIREMOLD SHALL BE STEEL V2400 SERIES. SURFACE WIREMOLD SHALL ONLY BE INSTALLED WHERE CONCEALED CONDUIT CAN NOT BE INSTALLED DUE TO LACK OF ACCESS. ALL NEW 2" UNDERGROUND CONDUITS SHALL BE INSTALLED TO PROVIDE A NEW FIRE ALARM BACKBONE INFRASTRUCTURE.
15. THE ELECTRICAL CONTRACTOR SHALL INSTALL PULL ROPES IN THE EMPTY CONDUIT SYSTEM AS INSTALLED.
16. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
17. CABLE INSTALLED IN WET LOCATIONS EITHER ABOVE OR BELOW GROUND SHALL BE MOISTURE RESISTANT OR A TYPE APPROVED AND LISTED FOR USE UNDER WET CONDITIONS. (SECTION 310-8.1 C.E.C.)
18. ONLY WIRING CONNECTED TO THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN THE SAME JUNCTION BOXES, RACEWAY AND CONDUIT SYSTEM.
19. ALL ROUGH-IN CONDUIT, WIREMOLD, BACKBOXES, PULL BOXES, & 120 VAC POWER SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER DIRECTION OF THE FIRE ALARM CONTRACTOR.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEDICATED 120VAC POWER CIRCUITS TO ALL NEW FIRE ALARM SYSTEM PANELS. PROVIDE A LOCK-ON BREAKER AT THE ELECTRICAL PANELS AND PERMANENTLY LABEL THE BREAKER AS "FIRE ALARM CONTROL POWER."
21. ALL TERMINIATIONS IN MAIN TERMINAL CABINETS SHALL BE MADE ON TERMINAL STRIPS. ALL FIRE ALARM WIRING TERMINATIONS SHALL BE MADE AT THE FIRE ALARM DEVICES, JUNCTION BOXES OR IN THE TERMINAL CABINETS. NO TERMINATIONS SHALL BE MADE IN UNDERGROUND PULL BOXES.
22. IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS PER CEC 760-42.
23. THE FIRE ALARM FLOOR PLANS ARE DIAGRAMMATIC. ADJUST DEVICE LOCATIONS (WITHIN LIMITS OF NFPA 72 REQUIREMENTS), AND WIRING FOR ACTUAL FIELD CONDITIONS.
24. ALL SMOKE DETECTORS AND OTHER FIRE ALARM DEVICES SHALL BE COVERED AND PROTECTED UNTIL THE AREA OF WORK IS CLEAN AND FREE OF DUST AND DEBRIS. TO ENSURE THAT EACH SMOKE DETECTOR IS WITHIN ITS LISTED AND MARKED SENSITIVITY RANGE, IT SHALL BE TESTED USING EITHER A CALIBRATED TEST METHOD, THE MANUFACTURER'S CALIBRATED SENSITIVITY TEST INSTRUMENT, LISTED CONTROL EQUIPMENT ARRANGED FOR THE PURPOSE, A SMOKE DETECTOR/ CONTROL UNIT ARRANGEMENT WHEREBY THE DETECTOR CAUSES A SIGNAL AT THE CONTROL UNIT WHERE ITS SENSITIVITY IS OUTSIDE ITS ACCEPTABLE RANGE OR OTHER CALIBRATED SENSITIVITY TEST METHOD ACCEPTABLE TO THE FIRE CODE OFFICIAL. DETECTORS FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED AND RECALIBRATED OR REPLACED. EXCEPTIONS: 1) DETECTORS LISTED AS FIELD ADJUSTABLE SHALL BE PERMITTED TO BE EITHER ADJUSTED WITHIN THE LISTED AND MARKED SENSITIVITY RANGE AND CLEANED AND RECALIBRATED OR THEY SHALL BE REPLACED. 2) THIS REQUIREMENT SHALL NOT APPLY TO SINGLE-STATION SMOKE ALARMS.
25. ALL EXTERIOR ALARM COMPONENTS SHALL BE LISTED FOR OUTDOOR USE.
26. PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES AND PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.
27. THE NEW FIRE ALARM SYSTEM SHALL BE A FULLY AUTOMATIC SYSTEM. THE NEW SYSTEM DEVICES SHALL BE INSTALLED AS AN AUTOMATIC SYSTEM WITH FULL SMOKE DETECTOR COVERAGE AND HEAT DETECTORS IN ATTICS AND ABOVE ACCESSIBLE CEILING SPACES.
28. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
29. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND IN A MANNER ACCEPTABLE TO DSA/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO THE ARCHITECT, DSA, PROJECT INSPECTOR, OWNER AND TO THE LOCAL FIRE AUTHORITY. ALL NORMALLY OCCUPIED AREAS SHALL BE PROVIDED WITH A FIRE ALARM DECIBEL LEVEL AT 15 dBa ABOVE AMBIENT NOISE LEVELS. REQUEST FOR INSPECTION SHALL INCLUDE STATEMENT OF COMPLIANCE NOTED IN CFC SECTION 901.2.1.
30. THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.
31. AFTER INSTALLATION AND TESTING HAS BEEN COMPLETED AND WITNESSED BY THE FIRE INSPECTOR, A COMPLETED NFPA CERTIFICATE OF COMPLIANCE (RECORD OF COMPLETION) SHALL BE ISSUED FROM THE INSTALLING COMPANY AND PROVIDED TO THE INSPECTOR AND DISTRICT.
32. AT COMPLETION OF THE PROJECT, A COPY OF "AS BUILT" DRAWINGS SHALL BE PROVIDED TO THE OWNER/ OCCUPANT ALONG WITH WRITTEN OPERATING INSTRUCTIONS, AND MAINTENANCE/TESTING INFORMATION FOR THE FIRE ALARM SYSTEM. A 24-HOUR EMERGENCY RESPONSE PHONE NUMBER FOR AN ALARM COMPANY REPRESENTATIVE SHALL BE PERMANENTLY INSTALLED ADJACENT TO THE CONTROL PANEL. RETAIN ON PREMISES MINIMUM 5 YEARS PER TITLE 19 SECTION 904.1(B). (3 YRS. PER CFC 901.6.2.)
33. ALL FIRE ALARM SYSTEM DOCUMENTATION SHALL BE PROVIDED TO THE OWNER/ OCCUPANT EITHER IN A DOCUMENT CABINET ADJACENT TO THE FACP OR IN A LOCATION DESIGNATED BY OWNER/OCCUPANT AND THE LOCATION NOTATED AT THE FACP.
34. INSURE THAT THE MANUFACTURERS DATE IS PROVIDED ON THE BATTERIES. PERMANENTLY MARK THE INSTALLATION DATE ON THE BATTERIES.
35. THE FIRE ALARM CONTRACTOR SHALL COORDINATE, THROUGH THE GENERAL CONTRACTOR, WITH THE DISTRICT TO PROVIDE A DEDICATED PRIMARY TELEPHONE LINE FOR SUPERVISING STATION MONITORING. THE LINE SHALL BE IN PLACE BEFORE FINAL ACCEPTANCE TESTING. SECONDARY MEANS WILL BE BY CELLULAR TRANSMISSION. THE DISTRICT WILL DETERMINE THE CENTRAL STATIONS MONITORING COMPANY.

FIRE ALARM PROJECT NOTES

1. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS.
2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2016 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID, TITLE 24 , CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STATE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. (REFERENCE: SECTION 4-338 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR)
3. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AS WELL AS ALL ASPECTS OF THE SCOPE OF THE WORK FOR THIS PROJECT BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL INCLUDE ALL RESULTING COSTS IN THE BID. BY THE ACT OF SUBMITTING THE BID, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE EXISTING CONDITIONS AND HAVE INCLUDED THOSE COST IN THE BID.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE EXISTING CONDITION OF THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH THESE REQUIREMENT WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DISTRICT.
6. IT IS THE INTENT OF THESE DRAWINGS THAT THE NEW FIRE ALARM SYSTEM SHALL BE INSTALLED INDEPENDENT OF THE EXISTING SYSTEM. THE EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED IN OPERATION UNTIL THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED AND ACCEPTED BY THE DSA AHJ FOR OCCUPANCY. IF FOR ANY REASON THE EXISTING FIRE ALARM SYSTEM MUST BE TAKEN OUT OF SERVICE THE CONTRACTOR SHALL NOTIFY THE DSA IOR, DISTRICT & LOCAL FIRE CHIEF BEFORE REMOVING THE SYSTEM FROM SERVICE. IN ADDITION, THE CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO PERFORM FIRE WATCH PER THE REQUIREMENTS OF CFC 901.7 AND 1404.5..
7. MINOR ADJUSTMENTS CAUSED BY UNFORESEEN CONFLICTS WITH OTHER SYSTEMS OR UTILITIES DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM INFRASTRUCTURE SHALL BE COORDINATED IN THE FIELD. MAJOR DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT, ARCHITECT AND ENGINEER FOR RESOLUTION BEFORE ANY CHANGES ARE PERFORMED. POTENTIAL CONFLICTS SHOULD BE ANTICIPATED AND RESOLVED DURING THE BID SITE VISIT AND PREPARATION PER NOTE 3 ABOVE.
8. CONDUIT AND RACEWAY INFRASTRUCTURE ROUTING SHALL BE INSTALLED ACCORDING TO THE PLAN TO PREVENT UNACCOUNTABLE AND UNANTICIPATED VOLTAGE DROP AND COVERAGE PROBLEMS.
9. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE AND ALL ALL APPLICABLE CALIFORNIA AND LOCAL CODES AND REGULATIONS.
10. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DSA APPROVED DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. UPON FINAL COMPLETION OF THE WORK, THE RECORD DRAWINGS SHALL BE USED TO GENERATE AN ACCURATE SET OF AS BUILT DRAWINGS FOR SUBMISSION PER THE REQUIREMENTS OF THE SPECIFICATIONS. FINAL AS BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD AND HARD COPY FORMAT.
11. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE, FITTINGS, TERMINAL STRIPS, ANCILLARY PARTS, ETC. FOR THE INSTALLATION OF A COMPLETE, COMPLIANT AND CERTIFIED FIRE ALARM SYSTEM. ADDITIONAL QUANTITIES OF FIRE ALARM SYSTEM DEVICES, IF NECESSARY, SHALL BE PROVIDED TO INSURE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM ACCEPTABLE TO DISTRICT AND THE INSPECTOR OF RECORD. DEVICE QUANTITIES SHALL BE REEXAMINED AND VERIFIED BY THE CONTRACTOR BEFORE THE BID IS SUBMITTED.

SYMBOL LEGEND WITH CSFM LISTING NUMBERS

QTY.	SYMBOL	DESCRIPTION	PART #	BACKBOX	MANUFACTURER	CSFM LISTING
-	FACP	FIRE ALARM CONTROL PANEL, EVAC SYSTEM -	IFP-2100ECS w/6815	PROVIDED	SILENT KNIGHT -	7165-0559:0505 7165-0559:0500
-	FAA	REMOTE FIRE ALARM ANNUNCIATOR -	RA-2000 -	PROVIDED -	SILENT KNIGHT	7165-0559:0174
-	RPU	REMOTE PAGING UNIT	ECS-RPU	PROVIDED	SILENT KNIGHT	7300-0559:0175
-	FAPS	REMOTE FIRE ALARM POWER SUPPLY	RPS-1000 w/6815	PROVIDED	SILENT KNIGHT	7165-0559:0158 7165-0559:0500
-	AMP	FIRE ALARM 50 WATT AMPLIFIER - VOICE EVAC	ECS-50W	PROVIDED	SILENT KNIGHT	7300-0559:0173
-	②	INTELLIGENT PHOTO SMOKE DETECTOR STANDARD DETECTOR BASE	IDP-PHOTO B210LP	4 "S" DEEP W/ 3"O" RING	SILENT KNIGHT SILENT KNIGHT	7270-0559:0149 7300-1653:0109
-	Ⓘ	INTELLIGENT HEAT DETECTOR (135° F) STANDARD DETECTOR BASE	IDP-HEAT B210LP	4 "S" DEEP W/ 3"O" RING	SILENT KNIGHT SILENT KNIGHT	7270-0559:0147 7300-1653:0109
-	Ⓘ A	INTELLIGENT HEAT DETECTOR (190° F) STANDARD DETECTOR BASE	IDP-HEAT-HT B210LP	4 "S" DEEP W/ 3"O" RING	SILENT KNIGHT SILENT KNIGHT	7270-0559:0147 7300-1653:0109
-	②	COMBINATION SMOKE/CO DETECTOR INTELLIGENT SOUNDER BASE	IDP-FIRE-CO B200S	4 "S" DEEP W/ 3"O" RING	SILENT KNIGHT SILENT KNIGHT	7275-0559:0170 7275-0559:0170
-	P	ADDRESSABLE MANUAL FIRE ALARM BOX (MANUAL PULL STATION)	IDP-PULL-DA	4 "S" 2-1/8" DEEP BOX W/ 1-GANG RING	SILENT KNIGHT	7150-0559:0140
-	M	INTELLIGENT MONITOR MODULE	IDP-MONITOR	4 "S" 2-1/8" DEEP BOX	SILENT KNIGHT	7300-0559:0155
-	R	INTELLIGENT RELAY MODULE	IDP-RELAY	4 "S" 2-1/8" DEEP BOX	SILENT KNIGHT	7300-0559:0155
-	W #cd	FIRE ALARM WALL SPEAKER/STROBE	SPSW-P	4 "S" 2-1/8" DEEP BOX	SYSTEM SENSOR	7320-1653:0201
-	#cd	CEILING FIRE ALARM SPEAKER/STROBE	SPSCW-P	4 "S" 2-1/8" DEEP BOX	SYSTEM SENSOR	7320-1653:0201
-	W WP	FIRE ALARM WP WALL SPEAKER	SPRK-P	SA-WBB	SYSTEM SENSOR	7320-1653:0201
-	-/\/\/-	NAC END OF LINE RESISTER	———	———	———	———

SYMBOL LEGEND FOR DEVICES BY OTHERS

QTY.	SYMBOL	DESCRIPTION	PART #	BACKBOX	MANUFACTURER	CSFM LISTING
-	FATC WP	FIRE ALARM TERMINAL CABINET	REFER TO SITE PLAN	NEMA 3R 18"X18"X4"	CIRCLE AW/B-LINE	N/A
-	FATC	FIRE ALARM TERMINAL CABINET	REFER TO MOUNTING DETAILS	24"X24"X6"	CIRCLE AW/B-LINE	N/A
-	FATC	FIRE ALARM TERMINAL CABINET	REFER TO MOUNTING DETAILS	18"X18"X4"	CIRCLE AW/B-LINE	N/A

OTHER SYMBOLS AND ABBREVIATIONS

- I = INTELLIQUAD SMOKE/CO DETECTOR
- #cd = VISUAL NOTIFICATION APPLIANCE CANDELA VALUE
- A#-# = AUDIBLE (VOICE) NOTIFICATION APPLIANCE CIRCUIT NUMBER - DEVICE NUMBER
- V#-# = VISUAL NOTIFICATION APPLIANCE CIRCUIT NUMBER - DEVICE NUMBER
- L#-# = INITIATING DEVICE ADDRESS - LOOP# - DEVICE#
- WP = WEATHERPROOF DEVICE OR ELECTRICAL BOX
- W = WALL MOUNT
- AHU # = EXISTING AIR HANDLING UNITS
- FSCP WC = HOOD SUPPRESSION SYSTEM BY OTHERS
- = UP AND DOWN CONDUIT RISERS - 3/4" MINIMUM

SEQUENCE OF OPERATIONS

ACTION \ DEVICE	AC POWER FAILURE	SYSTEM TROUBLE/WIRING FAULT OR OPEN	MANUAL PULL STATION	AREA SMOKE/BEAM DETECTOR	AREA OR ATTIC HEAT DETECTOR					EXTINGUISHER OR SUPPRESSION TYPE SYSTEM	AREA CO DETECTOR	
ACTIVATE CONTROL PANEL TROUBLE BUZZER	YES	YES	NO	NO	NO					NO	NO	
ACTIVATE CONTROL PANEL SUPERVISORY BUZZER	NO	NO	NO	NO	NO					NO	NO	
ACTIVATE CONTROL PANEL ALARM BUZZER	NO	NO	YES	YES	YES					YES	YES	
ACTIVATE RELAY FOR CENTRAL STATION MONITORING	YES	YES	YES	YES	YES					YES	YES	
ANNUNCIATE AT FACP (ALARM OR TROUBLE)	YES	YES	YES	YES	YES					YES	YES	
ANNUNCIATE AT REMOTE ANNUCIATOR PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES					YES	YES	
ACTIVATE NOTIFICATION (AUDIBLE/VISUAL) ALARM SIGNAL THROUGHOUT BUILDING	NO	NO	YES	YES	YES					YES	YES	
SOUND SPRINKLER SYSTEM BELL ALARM	NO	NO	NO	NO	NO					NO	NO	
(2) SHUT DOWN ASSOCIATED AIR HANDLING (HVAC) THROUGHOUT BUILDING	NO	NO	NO	YES	NO					YES	YES	
(1) CLOSE COMBO SMOKE/FIRE DAMPERS THROUGHOUT FLOOR OF ALARM	YES	NO	NO	YES	NO					YES	YES	
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION	NO	NO	YES	YES	YES					YES	YES	
SOUND AN ALERT TONE FOLLOWED BY VOICE INSTUCTION	NO	NO	YES	YES	YES					NO	YES	
RETURN LIGHTING TO 100% OF LUMEN OUTPUT UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES	YES					NO	YES	
SHUTDOWN AUTONOMOUS PUBLIC ADDRESS SYSTEM UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES	YES					NO	YES	
ALARM TO CONSTANTLY MONITOR AREA TO ADMINISTRATION BUILDING	NO	NO	NO	NO	NO					NO	YES	
ACTIVATE ELEVATOR SHUNT TRIP	NO	NO	NO	NO	NO					NO	NO	
SHUTDOWN OF DUST COLLECTOR SYSTEM	NO	NO	YES	YES	YES					YES	YES	

1. PER 2019 CALIFORNIA MECHANICAL CODE 605.8, WHEN THE AUTOMATIC ACTIVATION OF A SMOKE DAMPER OR A COMBINATION SMOKE/FIRE DAMPER OCCURS, THE HVAC SYSTEM SERVICING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN. THE HVAC SYSTEM SHALL NOT BE RESTARTED AGAIN UNTIL ALL DAMPERS ARE RESET AND FULLY OPENED. ALL HVAC UNITS CONTAINING SMOKE FIRE DAMPERS AS PART OF THEIR DUCTING SYSTEM SHALL BE PROVIDED WITH RELAYS AND DEVICES FOR IMMEDIATE SHUT DOWN UPON THE ACTIVATION/CLOSURE OF ASSOCIATED COMBINATION SMOKE FIRE DAMPERS.
2. INCLUDES ACTIVATE DUST COLLECTOR (DC-1) SHUT DOWN (AT BUILDING B).

NOTE: THERE IS NO COOKING IN SCOPE/ ON PREMISE.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*
2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)......................2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems..2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems..2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.................2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection..2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and
Their Appurtenances (CA amended)...2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended)....................................2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives....................................2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)............2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for
Protection of Commercial Cooking Equipment..2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems,
Including Accessories...2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.......................1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired....................................2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands........2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

BUILDING DATA

PROJECT ADDRESS:
FILLMORE HIGH SCHOOL
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CALIFORNIA 93015

MAINTAINS SYSTEM:
LOW VOLTAGE SOLUTIONS
MONITORING:
AMERICAN TWO-WAY
ACCOUNT #M100-2245

BUILDINGS TO BE PROVIDED WITH CODE COMPLIANT MANUAL AND AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION AND VOICE PAGING.

FIRE ALARM SYSTEM DATA

EXPAND EXISTING FULLY AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM AS REQUIRED TO FACILITATE INCLUSION OF ADDITIONAL BUILDINGS IDENTIFIED WITH THIS SCOPE OF WORK. SYSTEM IS A POWER LIMITED SYSTEM AND ALL REMOTE PAGING IS PERFORMED FROM THE MAIN ADMINISTRATION BUILDING.

PRIMARY POWER: DEDICATED 120 VAC POWER WITH 20 A BREAKER FOR FAPS AND AMPLIFIER
SECONDARY POWER: BATTERIES - REFER TO CALCS FOR REQUIREMENTS

TOTAL COVERAGE WITH FULL SMOKE DETECTOR COVERAGE AND HEAT DETECTORS IN ACCESSIBLE ABOVE CEILING SPACE AND ATTICS, AS WELL AS CARBON MONOXIDE DETECTION IN ALL CLASSROOMS.

CLASS B SIGNALING LINE CIRCUITS.

ALL FIRE ALARM SYSTEM DEVICES TO BE INSTALLED IN THE NEW BACKBOXES TO BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR

ALL NEW CABLE TO BE INSTALLED IN COMPLETE CONDUIT INFRASTRUCTURE 3/4" CONDUIT MINIMUM FOR DEVICE FEEDS, V2400 WIRE MOLD FOR SURFACE MOUNTING AND 2" MINIMUM FOR UNDERGROUND INFRASTRUCTURE. OTHER UNDERGROUND CONDUIT SIZE AS SHOWN ON THE SITE PLAN. CONDUIT & RACEWAY TO BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER THE DIRECTION OF THE FIRE ALARM CONTRACTOR.

FIRE ALARM SYSTEM CABLE SCHEDULE

TAG	USAGE	WIRE IN CONDUIT	TYPE	MANUFACTURER	PART #
A	AUDIBLE NAC - SPEAKER CIRCUIT	1 PAIR #16 TSP TWISTED/SHIELDED	FPLR	WEST PENN WIRE	991
C	CONTROL WIRING	2#14 THHN	THHN	GENERAL	#14 THHN
M	REMOTE MICROPHONE CABLE	1 PAIR #16 TSP TWISTED/SHIELDED	FPLR	WEST PENN WIRE	991
N	NETWORK CABLE UNDERGROUND	1 PAIR #14 TSP TWISTED/SHIELDED	FPL/PLTC	WEST PENN WIRE	AQ295
P	AUX POWER CIRCUIT	2#14 THHN	THHN	GENERAL	#14 THHN
S	SLC - SIGNALING LINE CIRCUIT	2 COND. #16 TWISTED	FPLR	WEST PENN WIRE	990
V	VISUAL NAC - STROBE CIRCUIT	2#12 THHN	THHN	GENERAL	#12 THHN
SB	S-BUS UNDERGROUND	4 COND. #16 TSP TWISTED/SHIELDED	FPL/PLTC	WEST PENN WIRE	AQ295
VB	VOICE BUS UNDERGROUND	2 COND. #16 TSP TWISTED/SHIELDED	FPL/PLTC	WEST PENN WIRE	AQ295
Y	NAC SYNC. WIRING UNDERGROUND	2#12 THWN	THWN	GENERAL	#12 THWN
Z	MONITOR WIRING	2#14 THWN	THWN	GENERAL	#14 THWN
UA	UNDERGROUND AUDIBLE NAC	1 PAIR #16 TSP TWISTED/SHIELDED	FPL/PLTC	WEST PENN WIRE	AQ294
US	UNDERGROUND SLC CIRCUIT	1 PAIR #16 TWISTED	FPL/PLTC	WEST PENN WIRE	AQ225
UV	UNDERGROUND VISUAL NAC	2#12 THWN	THWN	GENERAL	#12 THWN

WEST PENN CSFM LISTING: 7161-0859:0101

SEQUENCE OF OPERATION TESTING

PER NFPA FIGURE A.14.6.2.4(9) INSTALLING CONTRACTOR SHALL TEST AND ENSURE PROPER SEQUENCE OF OPERATION OF THE FIRE ALARM SYSTEM.

COMPLETE FIRE ALARM SUBMITTAL

AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121233 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2022

WESTGROUP DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

REGISTERED PROFESSIONAL ENGINEER
ADAM SLOAN
No. E 18589
ELECTRICAL
STATE OF CALIFORNIA

AG Design Inc.
Consulting Electrical Engineers
714.769.9900
www.AGDesignEng.com
171 S. Anita Dr., Ste. 111 | Orange, CA 92868

FILLMORE HIGH SCHOOL - MODERNIZATION
FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

REVISIONS:

NOT FOR CONSTRUCTION

DEPARTMENT OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: ....03-121233............
AC...............FLS................SS................
DATE:...

P.T.N. ________-____

REGISTRATION/SIGNATURE:

SHEET TITLE:
FIRE ALARM COVER SHEET

SHEET NUMBER:
FA000

WD PROJ. # | DRAWN BY: | CHECKED | DATE

© WESTGROUP DESIGNS, INC.

Fillmore Unified School District - Mini Mod.

Panel Location: Bldg. 9 - Storage Room 924

Panel: FAPS-2

Regulated Load in Standby

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	41	X	0.000000230	=	0.00000943
HEAT DETECTOR (135 & 190)	9	X	0.000000230	=	0.00000207
C/O DETECTOR	3	X	0.000750000	=	0.00225
PULL STATION	5	X	0.000000230	=	0.00000115
MONITOR MODULE	5	X	0.000000500		0.0000025
CONTROL RELAY MODULE	5	X	0.000000700		0.0000035
POWER SUPPLY	1	X	0.002		0.002
			STANDBY LOAD	=	**0.00426865**

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	41	X	0.000000230	=	0.00000943
HEAT DETECTOR (135 & 190)	9	X	0.000000230	=	0.00000207
C/O DETECTOR	3	X	0.000750000	=	0.00225
PULL STATION	5	X	0.000000230	=	0.00000115
15cd SPEAKER/STROBE	17	X	0.066	=	1.122
75cd SPEAKER/STROBE	4	X	0.158	=	0.632
110cd SPEAKER/STROBE	2	X	0.202	=	0.404
WP SPEAKER	8	X	0.069	=	0.552
POWER SUPPLY	1	X	0.002		0.002
MONITOR MODULE	5	X	0.000000500		0.0000025
CONTROL RELAY MODULE	5	X	0.000000700		0.0000035
			ALARM LOAD	=	**2.714**

Battery Amp Hour Calculation

Standby Load Current (Amps)			Required Standby Time (Typically 24 or 60 *Hours*)		
	0.00426865	X	24	=	0.1024476 AH
Alarm Load Current (Amps)			Required Alarm Time (Typically 5 or 15 *Minutes*)		
	2.71426865	X	15	=	0.68 AH
			Sub Total Standby / Alarm Amp Hours		0.78 AH
			Multiply by the Derating Factor	X	1.2
			Total Ampere Hours Required	=	**1 AH**

PROVIDE 7 AH BATTERY

Project Name: FILMORE UNIFIED SCHOOL DISTRICT - MINI MOD

Panel Location: BLD. 9 STORAGE ROOM 924

Panel: FAPS - 2

NAC SCHEDULE / VOLTAGE DROP CALCULATION
10 % MAXIMUM VOLTAGE DROP
CIRCUIT OUTPUT VOLTAGE = 20.4 (FOR CALCULATIONS)

CIRCUIT	DESCRIPTION	ESTIMATED CIRCUIT LENGTH	APPLIANCE QUANTITIES/CURRENT DRAW: Strobe 15cd 0.066	Strobe 30cd 0.094	Spkr Strobe 15cd 0.066	Spkr Strobe 30cd 0.094	Spkr Strobe 75cd 0.158	Spkr Strobe 110cd 0.202	TOTAL CKT. LOAD (AMPS)	WIRE GAUGE (18, 16, 14, 12)	VOLTAGE DROP TOTALS: ACTUAL VOLTAGE DROP %	ACTUAL VOLTAGE DROP (VOLTS)	TOTAL CIRCUIT RESISTANCE	MAXIMUM ALLOWABLE CKT. LENGTH
#V1	V1 - BLDG 9 WEST	215 ft.	0	0	5	0	1	0	0.488	12	1.99%	0.405	0.8 Ohms	1,063 ft.
#V2	V2 - BLDG 9 EAST	180 ft.	0	0	4	0	2	0	0.580	12	1.98%	0.403	0.7 Ohms	911 ft.
#V3	V3 - BLDG 8 WEST	280 ft.	0	0	7	0	1	0	0.620	12	3.28%	0.670	1.1 Ohms	952 ft.
#V4	V4 - BLDG 8 EAST	280 ft.	0	0	1	0	0	2	0.470	12	2.49%	0.508	1.1 Ohms	1,124 ft.
#V5	V5 (SPARE)	0 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
#V6	V6 (SPARE)	0 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
	Appliance Summary		**0**	**0**	**17**	**0**	**4**	**2**						

METHOD USED TO CALCULATE PERCENT OF VOLTAGE DROP:
CIRCUIT LENGTH IN FEET X 2) (AMPS X OHMS/FOOT)] X 100
20.4 VOLTS

SPEAKER CIRCUIT LOAD CALCULATION

SPEAKER CIRCUIT DESCRIPTION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14, 12)	CIRCUIT VOLTAGE (25 OR 70 V RMS)	APPLIANCES QUANTITIES / TAP VALUES: SPEAKER TAP .25 Watt	SPEAKER TAP .5 Watt	SPEAKER TAP 1. Watt	SPEAKER TAP 2. Watt	SPEAKER TAP 15. Watt	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	MAXIMUM -3 dB DROP PER CIRCUIT: ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
BLDG 9 - WEST	A1	12	25 vrms	0	8	0	2	0	8 Watts	300 ft.	- 12 db	9115 ft.	1.064 Ohms
BLDG 9 - EAST	A2	12	25 vrms	0	8	0	2	0	8 Watts	300 ft.	- 12 db	9115 ft.	1.064 Ohms
BLDG 8 - WEST	A3	12	25 vrms	0	8	0	1	0	8 Watts		db	12154 ft.	Ohms
BLDG 8 - EAST	A4	12	25 vrms	0	3	0	3	0	7.5 Watts		db	9723 ft.	Ohms
				Appliance Summary					**Total Load (Watts)**				
				0	**27**	**0**	**8**	**0**	**29.50**				

VES Amplifier Calculation
Fillmore High School - Mini Mod.
AMP-3

Description	Quantity		Standby (Amps)	Total Standby (Amps)		Alarm (Amps)	Total Alarm (Amps)
VES	1	x	0.085000	0.085000		0.525000	0.525000
WATTS @ 25Vrms	29.5	x	0.000000	0.000000		0.040000	1.180000
WATTS @ 70.7Vrms	0	x	0.000000	0.000000		0.014000	0.000000
Total:				0.085000			1.705000
Battery Calculation	**Time Multiplier**			**Amp Hours**		**Total Watts Used**	**Total Watts Spare**
Supervisory Hours	24	x	0.085000	= 2.040000			
Alarm Hours	0.250	x	1.705000	= 0.42625		29.5	20.5
Total Amp Hours				= 2.466250			
Battery Supplied (AH)				= 7.000000			
Battery Spare (AH)				= 4.533750			

PROVIDE 7 AH BATTERY

Fillmore Unified School District - CTE Buildings

Panel Location: Tele. Room 103

Panel: (E) FACP-1

Regulated Load in Standby

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	11	X	0.000000190	=	0.00000209
HEAT DETECTOR (135 & 190)	7	X	0.000000190	=	0.00000133
C/O DETECTOR	12	X	0.000750000	=	0.009
PULL STATION	1	X	0.000000300	=	0.0000003
MONITOR MODULE	5	X	0.000000400	=	0.000002
CONTROL RELAY MODULE	5	X	0.000000400	=	0.000002
POWER SUPPLY	3	X	0.002		0.006
			STANDBY LOAD	=	**0.01500772**

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	11	X	0.000000230	=	0.00000253
HEAT DETECTOR (135 & 190)	7	X	0.000000230	=	0.00000161
C/O DETECTOR	12	X	0.000750000	=	0.009
PULL STATION	1	X	0.000000300	=	0.0000003
15cd SPEAKER/STROBE	5	X	0.066	=	0.33
30cd SPEAKER/STROBE	1	X	0.094	=	0.094
75cd SPEAKER/STROBE	5	X	0.158	=	0.79
110cd SPEAKER/STROBE	0	X	0.202	=	0
WP SPEAKER	3	X	0.069	=	0.207
POWER SUPPLY	3	X	0.002		0.006
MONITOR MODULE	5	X	0.000000500		0.0000025
CONTROL RELAY MODULE	5	X	0.000000700		0.0000035
			ALARM LOAD	=	**1.436**

Battery Amp Hour Calculation

Standby Load Current (Amps)			Required Standby Time (Typically 24 or 60 *Hours*)		
	0.01500772	X	24	=	0.36018528 AH
Alarm Load Current (Amps)			Required Alarm Time (Typically 5 or 15 *Minutes*)		
	1.43601044	X	15	=	0.36 AH
			Sub Total Standby / Alarm Amp Hours		0.72 AH
			Multiply by the Derating Factor	X	1.2
			Total Ampere Hours Required	=	**1 AH**

EXISTING 18 AH BATTERY SUFFICIENT WITH ADDED LOAD

SHEET NOTES:

1. TO 120V. DEDICATED CIRCUIT, PAINTED RED WITH LOCK ON DEVICE. REFER TO FIRE ALARM PLANS FOR ADDITIONAL INFORMATION.

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FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

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REGISTRATION/SIGNATURE:

SHEET TITLE:
FIRE ALARM RISER DIAGRAM & CALCULATIONS

SHEET NUMBER:
FA001

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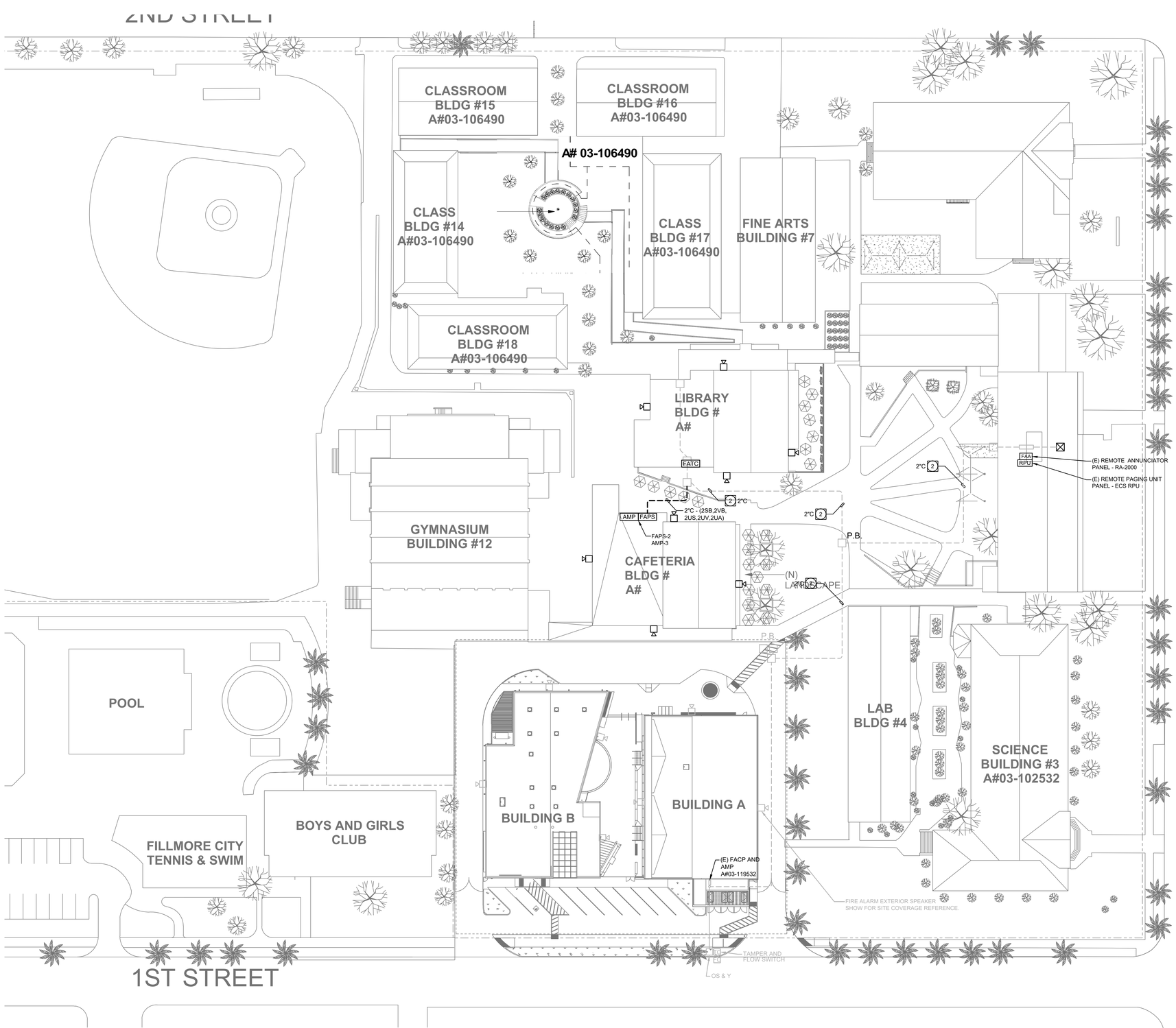

FIRE ALARM SITE PLAN

SCALE: 1" = 30'-0" 0 20' 40' 80'

KEYNOTES

1. INTERCEPT 4"C & (2) 2" CONDUIT AND EXTEND. STUB INTO NEW PULL BOX.
2. PULL-IN CABLES AS REQUIRED IN EXISTING CONDUIT FOR COMMUNICATION TO EXISTING FACP, REMOTE ANNUNCIATOR AND PAGING UNIT.
3. PROVIDE & INSTALL INTERCEPT BOX. INTERCEPT, EXTEND, & RE-CONNECT SYSTEM. (2'X3')
4. EXISTING WALL MOUNTED PULL BOX TO BE REPLACED. PROVIDE 24" SQ. WP NEMA 3R TERMINAL CABINET TO REPLACE EXISTING. RE-CONNECT SYSTEM.
5. CONNECT INTO (E) WALL MOUNTED PULL BOX.

GENERAL NOTES

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCALDIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE A NEC SIZED EQUIPMENT GROUND CONDUCTOR.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. HOME-RUNS ONLY ARE REFERENCED ON PLANS. CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
10. CONDUIT LAYOUTS AS IDENTIFIED ARE BASED ON VISUAL SURVEYS OF THE EXISTING CONDITION AND AS-BUILT DOCUMENTS PROVIDED TO THE EEOR BY THE DISTRICT. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL CONDUIT ROUTING AND REQUIREMENTS AND NOTIFY EEOR OF ANY MAJOR DISCREPANCIES PRIOR TO COMMENCING WORK .

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SHEET TITLE:
FIRE ALARM SITE PLAN

SHEET NUMBER:
FA100

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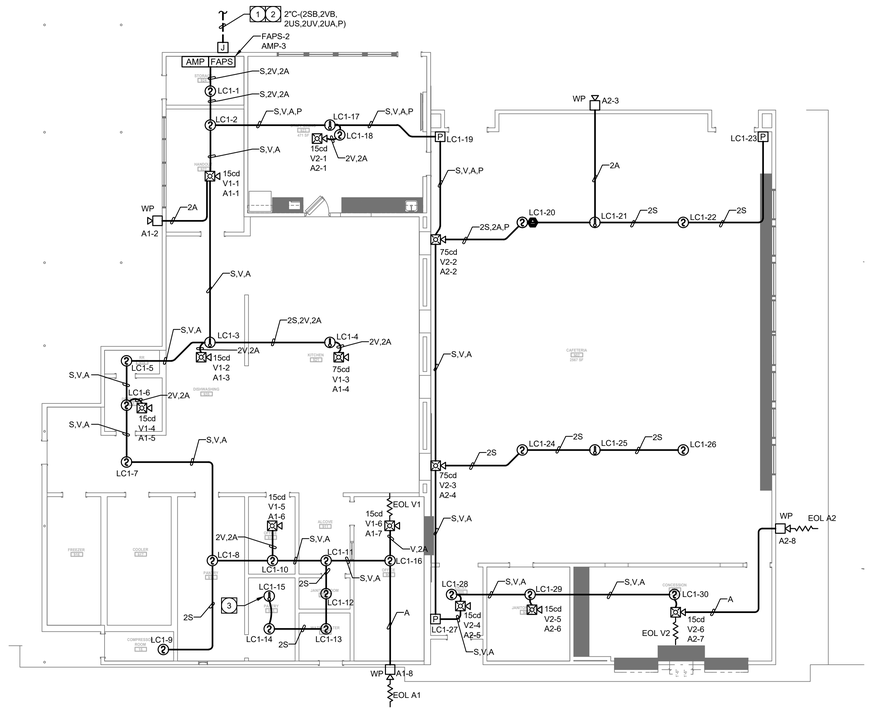
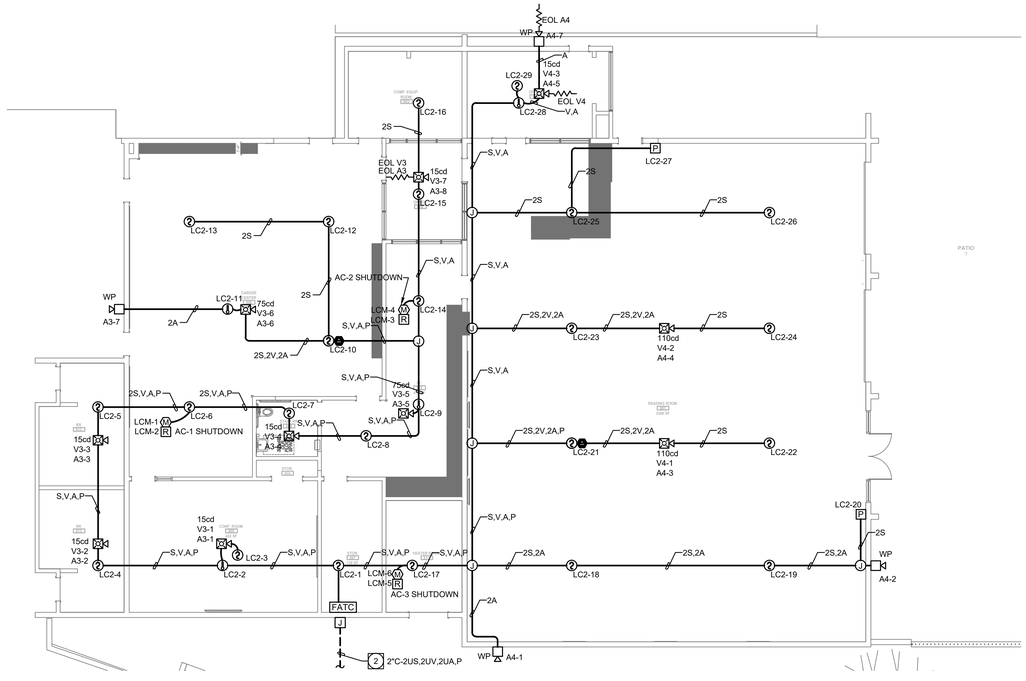


CAFETERIA (BLDG. 9) FIRE ALARM PLAN | 1 | 1/8" = 1'-0"



LIBRARY (BLDG. 8) FIRE ALARM PLAN | 2 | 1/8" = 1'-0" | NORTH

KEYNOTES

1. ROUTE CONDUIT TO NEAREST FIRE ALARM PULL BOX, SEE SHEET FA100 FOR CONDUIT CONTINUATION.
2. RE-USE EXISTING LOW VOLTAGE PATHWAY BACK TO EXISTING FIRE ALARM CONTROL PANEL IN BUILDING A - CTE.
3. PROVIDE ACCESS HATCH IF NO ACCESS EXIST. FIELD VERIFY HATCH LOCATION.

GENERAL NOTES

1. XXX

LEGEND

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CAFETERIA/ LIBRARY FIRE ALARM PLAN

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FA101

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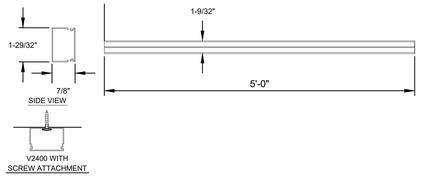
WIREMOLD 2400 SERIES

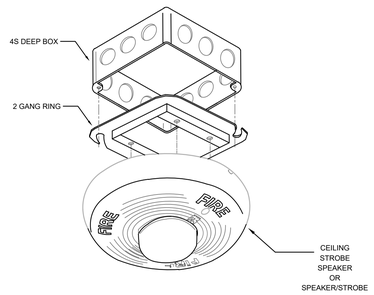


ANCHOR TYPE CHART

TYPE OF WIREMOLD	STRAP W/ANCHOR TYPE 2 ANCHORS PER STRAP	STRAP SPACING	WALL TYPE
V2400	3/16"Ø TOGGLE BOLTS	2-4 FT. C/C MAX	DRYWALL ½" OR ⅝"
V2400	3/16"Ø TOGGLE BOLTS	2-4 FT. C/C MAX	LATH & PLASTER
V2400	A) 3/16"Ø WOOD SCREWS FLAT HEAD, PENET = 1" B) 8 GAGE FLAT HEAD FLAT HEAD, PENET= 1"	2-4 FT. 2-4 FT. C/C	WOOD STUDS OR DRY WALL OVER WOOD STUDS
V2400	SHOT IN HILTI X-U P8 S15 FASTENER WITH WASHER ICC-ES ESR-2269	2-4 FT. C/C	CONCRETE/ MASONRY

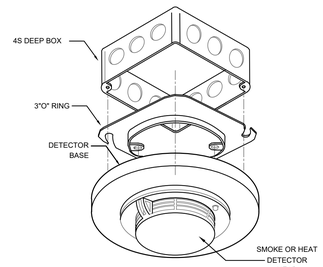
V2400 WIREMOLD MOUNTING | NOT TO SCALE | 1

BACKBOX SHALL BE MOUNTED ACCORDING TO THE ELECTRICAL SPECIFICATIONS. INSTALL WIREMOLD EQUIVALANT FOR SURFACE MOUNTING



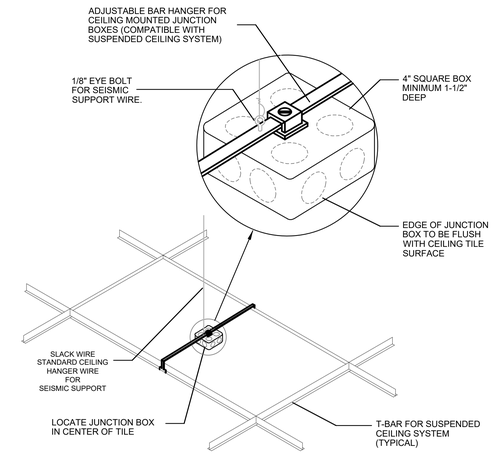
CEILING MOUNT STROBE, SPEAKER & SPEAKER/STROBE DETAIL | NOT TO SCALE | 2

BACKBOX SHALL BE MOUNTED ACCORDING TO THE ELECTRICAL SPECIFICATIONS. INSTALL WIREMOLD EQUIVALANT FOR SURFACE MOUNTING

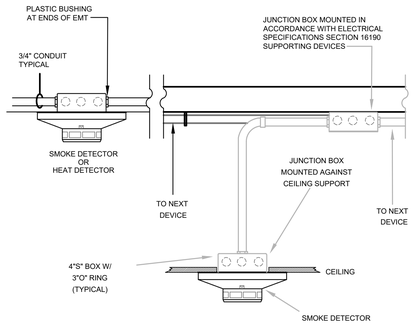


CEILING/ATTIC MOUNT SMOKE & HEAT DETAIL | NOT TO SCALE | 3

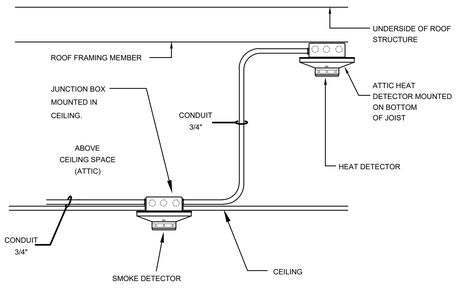
CEILING INSTALLATION ON SUSPENDED CEILING



SMOKE DETECTOR, STROBE, SPEAKER & SPEAKER/STROBE MOUNTING | NOT TO SCALE | 4

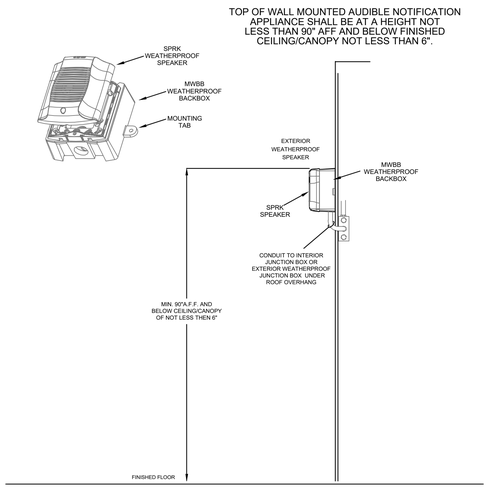


TYPICAL DETECTOR MOUNTING DETAIL | NOT TO SCALE | 5



TYPICAL SMOKE DETECTOR & HEAT DETECTOR MOUNTING | NOT TO SCALE | 6

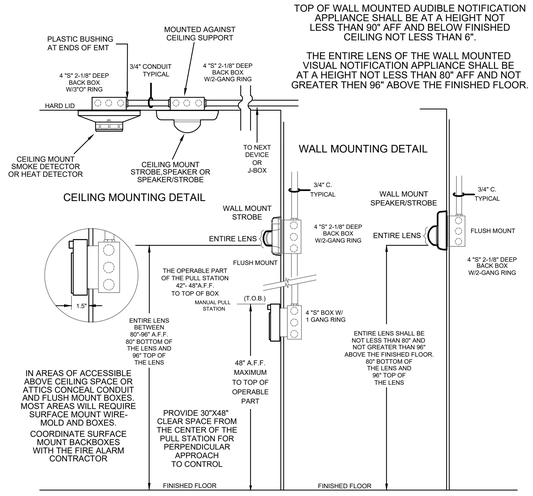
TOP OF WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE SHALL BE AT A HEIGHT NOT LESS THAN 90" AFF AND BELOW FINISHED CEILING/CANOPY NOT LESS THAN 6".



EXTERIOR SPEAKER MOUNTING | NOT TO SCALE | 7

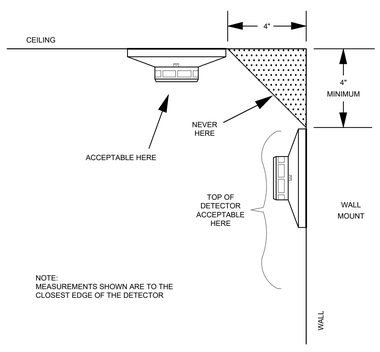
TOP OF WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE SHALL BE AT A HEIGHT NOT LESS THAN 90" AFF AND BELOW FINISHED CEILING NOT LESS THAN 6".

THE ENTIRE LENS OF THE WALL MOUNTED VISUAL NOTIFICATION APPLIANCE SHALL BE AT A HEIGHT NOT LESS THAN 80" AFF AND NOT GREATER THEN 96" ABOVE THE FINISHED FLOOR.

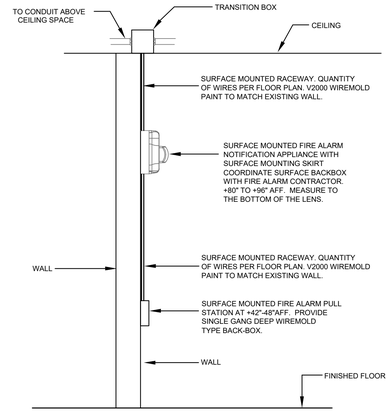


MOUNTING HEIGHT DETAIL | NOT TO SCALE | 8

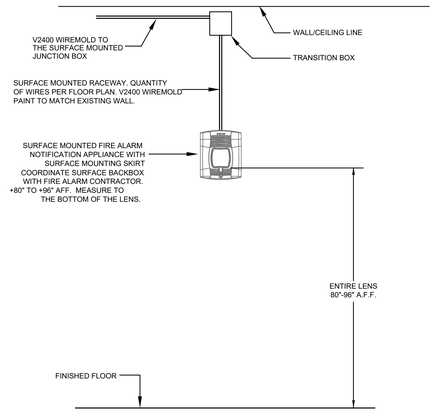
SMOKE DETECTOR LOCATION AT WALL, SOFFIT OR SKYLIGHT CORNER



SMOKE DETECTOR CORNER MOUNTING DETAIL | NOT TO SCALE | 9

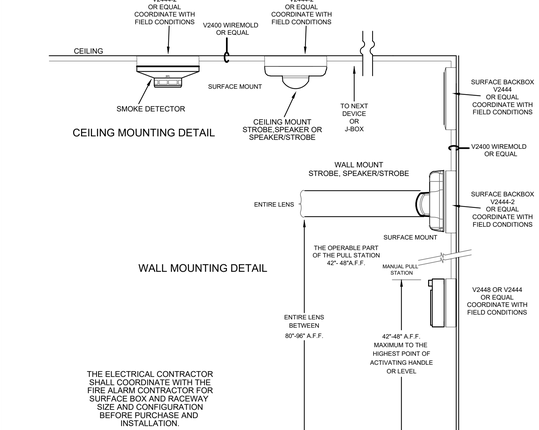


SURFACE MOUNT IN BUILDING WITH CEILING | NOT TO SCALE | 10



SURFACE MOUNT IN BUILDING WITHOUT CEILING | NOT TO SCALE | 11

CEILING WITH NO ATTIC OR ABOVE CEILING SPACE



SURFACE MOUNTING DETAIL | NOT TO SCALE | 12

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www.AGDesignEng.com
171 S. Anita Dr., Ste. 111 | Orange, CA 92868

FILLMORE HIGH SCHOOL - MODERNIZATION

FILLMORE UNIFIED SCHOOL DISTRICT
555 CENTRAL AVE.
FILLMORE, CA 93015

ISSUED FOR:
DSA BACK CHECK 05/25/2021

REVISIONS:

NOT FOR CONSTRUCTION

DEPARTMENT OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #: .....03-121233.....
AC.....FLS.....SS.....
DATE:.....

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REGISTRATION/SIGNATURE:

SHEET TITLE:
FIRE ALARM DETAILS

SHEET NUMBER:
FA501

WD PROJ. #	DRAWN BY:	CHECKED	DATE

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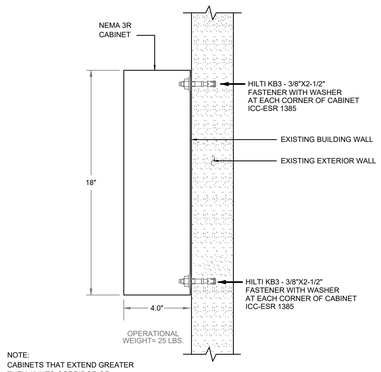
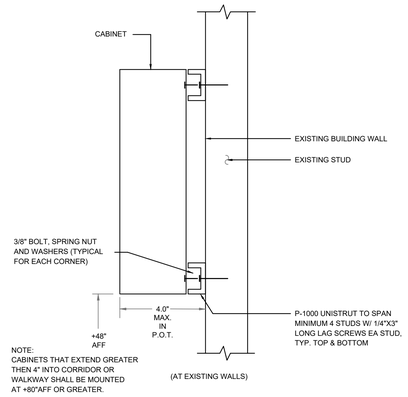


NOTE:
CABINETS THAT EXTEND GREATER THEN 4" INTO CORRIDOR OR WALKWAY SHALL BE MOUNTED AT +80"AFF OR GREATER.

MASONRY WALL

NEMA 3R EXTERIOR WALL MOUNTING DETAIL | NOT TO SCALE | 4

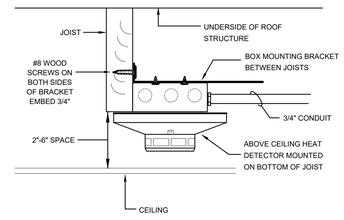


NOTE:
CABINETS THAT EXTEND GREATER THEN 4" INTO CORRIDOR OR WALKWAY SHALL BE MOUNTED AT +80"AFF OR GREATER.

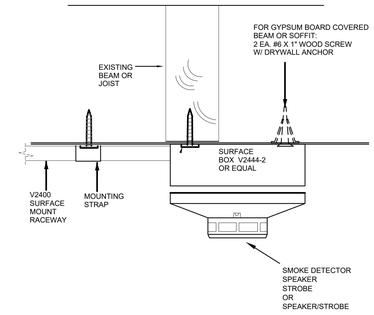
(AT EXISTING WALLS)

EXISTING WOOD FRAMING

SURFACE MOUNTED CABINET DETAIL | NOT TO SCALE | 3

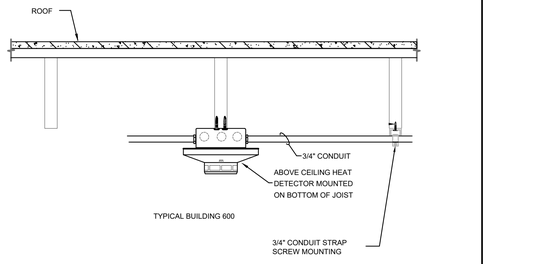


HEAT DETECTOR ABOVE CEILING - LIMITED CLEARANCE | TO SCALE | 2

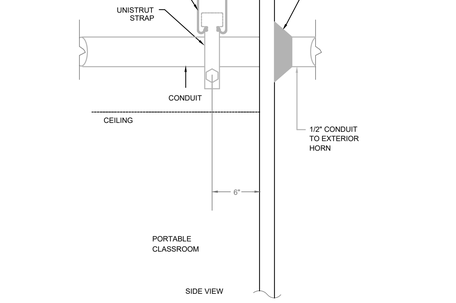


THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SURFACE MOUNTING ROUGH-IN WITH THE ELECTRICAL ELECTRICAL SPECIFICATIONS AND FIRE ALARM CONTRACTOR BEFORE INSTALLATION. ALL SURFACE MOUNTED EXPOSED BOXES SHALL BE WIREMOLD FINISH BOXES.

V2400 WIREMOLD/BACK BOX MOUNTING | NOT TO SCALE | 1



ATTIC HEAT DETECTOR MOUNTING WITH SOILD JOISTS | NOT TO SCALE | 6



SEAL TIGHT PENETRATION | NOT TO SCALE | 5

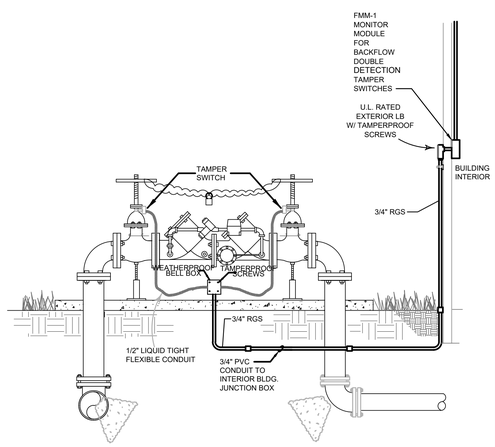
NOT TO SCALE | 8

UNDERGROUND CONDUIT ENTRY INTO BUILDINGS | NOT TO SCALE | 7

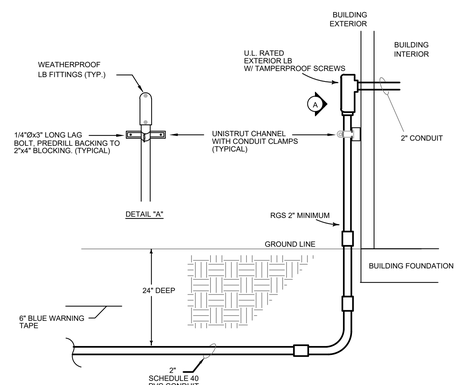
NOT TO SCALE | 12

-

NOT TO SCALE | 11



BACKFLOW DOUBLE DETECTION TAMPER SWITCH DETAIL | NOT TO SCALE | 10



NOTE: REFER TO THE ELECTRICAL SPECIFICATION FOR UNDERGROUND CONDUIT REQUIREMENTS. DO NOT DISTURB THE EXISTING BUILDING FOUNDATION DURING INSTALLATION OF BUILDING ENTRY CONDUITS.

UNDERGROUND CONDUIT ENTRY INTO BUILDINGS | NOT TO SCALE | 9

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STATE OF CALIFORNIA

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