1" = 40'-0" 120 80 40 0

1" = 30'-0" 90 60 30 0

1" = 20'-0" 60 40 20 0

1/8" = 1'-0" 24 16 8 0

1/4" = 1'-0" 12 8 4 0

COOPER MIDDLE SCHOOL
Admin Alterations
2277 W BELLAIRE WAY.
FRESNO, CA 93705
FRESNO UNIFIED SCHOOL DISTRICT

INSPECTOR OF RECORD

THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.

A "DSA CERTIFIED" CLASS 3 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.

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

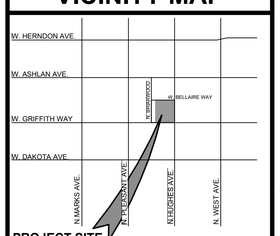
SCOPE OF WORK

- ALTERATIONS OF EXISTING ADMINISTRATION BUILDING TO ACCOMMODATE NEW DISTRICT PROGRAM REQUIREMENTS. THE EXISTING WOMEN'S TOILET AND WOMEN'S TOILET LOUNGE TO BE ACCESSIBLE. THE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL PLANS HAVE SPECIFIC SHEETS DELINEATING THIS INFORMATION.
- MODIFY ADJACENT SITE ELEMENTS TO ACCOMMODATE BUILDING MODERNIZATION
- ADD ALTERNATE #1 BASIC SCOPE OF WORK
  - IN GENERAL THE SCOPE OF WORK IS TO REVISE THE EXISTING WORK ROOM INTO A NEW OFFICE ADJACENT TO GRID LINE #3 AND LEAVE THE REMAINING SPACE AS A STORAGE ROOM. THE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL PLANS HAVE SPECIFIC SHEETS DELINEATING THIS INFORMATION.

FIRE SAFETY

THE CONTRACTOR SHALL ENSURE THAT FIRE SAFETY MEASURES ARE EMPLOYED THROUGH OUT ALL DEMOLITION AND CONSTRUCTION ACTIVITIES IN COMPLIANCE WITH CFC CH. 33.

VICINITY MAP



COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2025*

- 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2021 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2022 NFPA-13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
- 2022 NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).
- 2019 NFPA-80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.
- 2003 UL-464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.
- 1999 UL-521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.
- 2002 (R2010) UL-1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 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.

DEFERRED SUBMITTAL

- NONE

PROJECT DIRECTORY

OWNER:
FRESNO UNIFIED SCHOOL DISTRICT
MISTY HER, SUPERINTENDENT
2309 TULARE STREET
FRESNO, CA 93721
TEL: 559-457-3074
FAX. 559-457-3060

ARCHITECT:
CURTIS FLYNN
INTEGRATED DESIGNS
by SOMAM, Inc.
6011 N. FRESNO SUITE #130
FRESNO, CA 93710
TEL: 559-436-0881
FAX. 559-436-0887

STRUCTURAL ENGINEER:
DUSTIN LEE
CORNERSTONE STRUCTURAL ENGINEERING GROUP
986 W. ALLUVIAL AVE., SUITE #201
FRESNO, CA 93711
TEL: 559-320-3200
FAX. 559-320-3201

MECHANICAL/PLUMBING ENGR:
LISA LUM
INTEGRATED DESIGNS
by SOMAM, Inc.
6011 N. FRESNO SUITE #130
FRESNO, CA 93710
TEL: 559-436-0881
FAX. 559-436-0887

ELECTRICAL ENGINEER:
JMPE ELECTRICAL ENGINEERING & LIGHTING DESIGN
5500 MING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
TEL: 661-831-7651
EMAIL: maloney@jmpe.net

SYMBOLS

SECTION KEY — A / A3.03 — SECTION IDENTIFICATION; SHEET NUMBER

DETAIL KEY — 1 / A2.01 — DETAIL NUMBER; SHEET NUMBER

INTERIOR ELEVATION KEY — A, B, C, D / A5.01 — ELEVATION DIRECTION; ELEVATION IDENTIFICATION; SHEET NUMBER

ELEVATION DATUM — +1'-0" — INDICATES HEIGHT IN RELATION TO 0'-0"

ROOM NUMBER/FINISH TAG — OFFICE / 100 — ROOM NAME; ROOM NUMBER

A — WINDOW SCHEDULE KEY

1 — KEYNOTE SCHEDULE KEY

201 — DOOR SCHEDULE KEY

BUILDING DATA

CLASSROOM BUILDINGS

OCCUPANCY = B
TYPE OF CONSTRUCTION = VB (NON-SPRINKLERED)
TOTAL BUILDING AREA:

BUILDING AREA	= 3,218 S.F.
COVERED ROOF AREA	= 7,292 S.F.
TOTAL	= 10,510 S.F.

CLIMATE ZONE 13

DSA NOTES

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, 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 BY SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

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

STATEMENT OF GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE
APPLICATION NO.: 02-123816
FILE NO.: 10-48

THE DRAWINGS IDENTIFIED AS FOLLOWS:

☒ ALL DRAWINGS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE

☐ DRAWING SHEETS DENOTED IN THE INDEX AS FOLLOWS:

☐ DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVAL(S):

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENT OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME
2. COORDINATION WITH MY DRAWINGS (PLANS) AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

PER TITLE 24, PART 1, SECTION 4-316 (B): THIS 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.

SIGNATURE — 2-28-26 DATE

CURTIS FLYNN — 28966 — 5-31-27
PRINTED NAME — LICENSE NUMBER — EXPIRATION DATE

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS.
2. CHANGES MADE TO THE APPROVED DRAWINGS & SPECS SHALL BE MADE BY ADDENDUM OR C.C.D., APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R. AND DSA IR-6.
3. DSA ACCEPTED TESTING LABORATORY TO BE DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS & INSPECTIONS FOR THE PROJECT.
4. "ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, **AND THE WRITTEN SITE SAFETY PLAN**," PER DSA BU 24-05, SECTION 3.
5. SUBSTITIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C), PART 1, TITLE 24 CCR.

CALIFORNIA ENERGY CODE

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

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

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

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

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

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

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

TITLE 24, PART 11 CALGREEN

THIS PROJECT COMPLIES, AS FOLLOWS WITH MANDATORY MEASURES AS OUTLINED IN DSA GL-4 "PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE:"

- SECTION 301.4.2.2- NEWLY CONSTRUCTED BUILDINGS TO COMPLY WITH CHAPTER 5 AS ADOPTED BY DSA-SS
- SECTION 301.4.3- MINIMUM REHABILITATED LANDSCAPE AREA REQUIREMENT.

CHAPTER 5:

- SECTION 5.106.4.2.1 & SECTION 5.106.4.2.2: ONE NEW BICYCLE RACK TO ACCOMODATE 2 STUDENT BICYCLES. PROVIDE ONE NEW BICYCLE LOCKER TO ACCOMODATE 2 NEW STAFF BICYCLES. SEE NOTES #17 & 18, SHEET A1.00
- SECTION 5.106.3 NO PARKING IS BEING ADDED TO THE CAMPUS UNDER THIS APPLICATION
- SECTION 5.106.8: NO EXTERIOR LIGHTING IN BEING PROVIDED AT THE MODULAR BUILDING UNDER THIS APPLICATION SEE SHEET E1.1-FS
- SECTION 5.106.10: STORM WATER FROM NEW MODULAR BUILDING FLOWS THROUGH 2 LONG SWALES BEFORE BEING PICKED UP BY SITE STORM DRAIN SYSTEM.

SHEET INDEX

SHT. NO.	DESCRIPTION
	GENERAL
T1.00	TITLE SHEET
	(1 SHEET)
	ARCHITECTURAL
A0.01	SCHEDULES
A1.00	SITE PLAN
A1.01	ENLARGED SITE PLANS
A1.02	SITE DETAILS
A2.01	FLOOR PLAN
A3.01	EXTERIOR ELEVATIONS (FRONT ENTRY ELEMENT)
A3.02	EXTERIOR ELEVATIONS
A3.11	SECTIONS
A3.12	WALL FRAMING
A5.01	ADMIN OFFICE ALTERNATE BID #1
A5.02	DEMOLITION FLOOR PLAN
A6.01	REFLECTED CEILING PLAN
A7.01	EXTERIOR DETAILS
A8.01	INTERIOR DETAILS
A8.02	INTERIOR DETAILS
A8.03	INTERIOR DETAILS
A8.04	INTERIOR DETAILS
A8.05	INTERIOR DETAILS
A8.06	INTERIOR DETAILS
A8.07	UNISEX RESTROOM - 112
AA1.01	ADD ALTERNATE #1 (21 SHEETS)
	STRUCTURAL
S0.01	PROJECT INFORMATION
S1.01	TYPICAL DETAILS No 1
S1.02	TYPICAL DETAILS No 2
S1.03	TYPICAL DETAILS No 3
S2.0	FOUNDATION & ROOF FRAMING PLAN
SAAS2.0	GRIDLINE #4 WALL INFORMATION
	(6 SHEETS)
	MECHANICAL
M0.01	GENERAL NOTES - SCHEDULES
M0.11	DETAILS
M0.21	SPECS
M0.22	SPECS
M2.11	PLUMBING PLAN
M2.12	PLUMBING PLAN
M2.21	HVAC PLAN - DEMO
M2.22	HVAC PLAN - IMPROVEMENTS
M3.01	T24 DOCS
M4.01	PLUMBING & HVAC PLANS - FOR UNISEX R.R. #112
MAA1.01	MECHANICAL PLANS - ADD ALTERNATE #1
	(11 SHEETS
	ELECTRICAL
E0.01	NOTES, SYMBOLS, SCHEDULES & DETAILS
E0.02	FIRE ALARM DETAILS
E0.03	FIRE SPECS & CALCS
E0.04	INDOOR TITLE 24 FORMS
E0.05	INDOOR TITLE 24 FORMS
E1.00	ELECTRICAL SITE PLAN
E1.01	DEMO & POWER PLANS
E1.01A	DETAILS
E1.02	DEMO & FIRE ALARM PLANS
E1.03	LIGHTING PLANS
E2.01	UNISEX RESTROOM - 112 ELECTRICAL PLAN
E2.02	UNISEX RESTROOM - 112 ELECTRICAL PLAN
E2.03	UNISEX RESTROOM #112
	(13 SHEETS)
	TOTAL= 52 SHEETS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
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Stamp:
LICENSED ARCHITECT — CURTIS E. FLYNN — No. C 28966 — REN. 5-31-27 — STATE OF CALIFORNIA

Sheet Title:
TITLE SHEET

Job No.:
5599.2

Sheet No.:
T1.01

Release: Issue Date 6/4/26

G:\2023frs\23-5599.2 Cooper Middle School\Sheets\T1.01 TITLE SHEET.dwg, 6/4/2026 10:48:44, DWG To PDF.pc3

G:\2023frs\23-5599.2 Cooper Middle School\Sheets SCOTT DEWEY

MATERIAL AND FINISH SCHEDULE

MATERIAL AND FINISH SCHEDULE — 5/31/2026

Room No.	ROOM NAME	FLOOR MAT	FLOOR FIN	BASE MAT	BASE FIN	BASE HT	WAINSCOT MAT	WAINSCOT FIN	WAINSCOT HT	WALLS NORTH MAT	WALLS NORTH FIN	WALLS EAST MAT	WALLS EAST FIN	WALLS SOUTH MAT	WALLS SOUTH FIN	WALLS WEST MAT	WALLS WEST FIN	CEILING MAT	CEILING FIN	CEILING HT	REMARKS
100	STORAGE	(E) VFT	(E)	(E) RTB	(E)	4"	-	-	-	(E)/(N) PW (E) SS	(E)	(E)/(N) PW	(E)	(N) GB	(N) L4	(E) GB & P/W	(E)	(E) 12x12 ACT o/ 1/2" GB	(E)	(E) 12'-0"	2, 5, 6,12
101	DATA ROOM	(E) VFT	(E)	(E) RTB	(E)	4"	-	-	-	(E)/(N) PW (E) SS	(E)	(E)/(N) PW	(E)	(N) GB	(N)L4	(E)/(N) PW	(E)	(E) 12x12 ACT o/ 1/2" GB	(E)	(E) 12'-0"	2, 5, 6,12
102	LOBBY	(N) CPT	FF	(N) RTB	FF	4"	-	-	-	(E)/(N) PW (E) SS	(N) P	UW: (E)/(N) PW LW: (E)/(N) PW O/ TB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(N) SAT	FF	(N) 9'-6"	4, 5, 6, 7
103	OPEN OFFICE	(N) CPT	FF	(N) RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (E)/(N) PW LW: (E)/(N) PW O/ TB	UW: (N) P LW: FF	(E)/(N) PW (E) SS	(N) P	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(N) SAT	FF	(N) 9'-6"	4, 5, 6, 7
104	AA-002: (N) OFFICE / BB: (E) WORK ROOM	(E)CPT / (E)CPT	(E)	(E) RTB / (E) RTB	(E)	4"	-	-	-	(E) / (E)	(E) / (E)	(E) / (E)	(E) / (E)	(E) / (E)	(E) / (E)	(N)GB / (E)	(N)L4 / (E)	(E) 12x12 ACT o/ 1/2" GB	(E)	(E) 9'-6"	AA#002: 5, 6, 12
105	AA-002: STORAGE / BB: (E) WORK ROOM	VCT / (E)	(E)	(E)RTB / (E)RTB	(E)	4"	-	-	-	(E) / (E)	(E) / (E)	(N)GB / (E)	(N)L4 / (E)	(E) / (E)	(E) / (E)	(E)/(N) PW / (E)	(E) / (E)	(E) 12x12 ACT o/ 1/2" GB	(E)	(E) 9'-6"	AA#002: 5, 6, 12
106	AA-001: HALL / (E) WOMANS LOUNGE	(E) / (E)	(E)	(E) RTB / (E) RTB	(E)	4"	-	-	-	(N) / GB	(N) L4 / (E)	(E) PW / (E)	(E) / (E)	(E) SS / (E)	(E) / (E)	(N) GB / (E)	(N)L4 / (E)	(N) SAT / (E) 12x12 ACT o/ 1/2" GB	(N)FF / (E)	9'-6"	AA#001: 5, 6
107	FURNACE/ JANITOR	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
108	AA-001: STAFF ALL GENDER R.R. / (E) STAFF ALL GENDER R.R.	(E)/(N) / (E)	(E)/(N)	(E)/(N) / (E)	FF	(E) 6"	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E) 9'-6"	
109	AA-001: OFFICE / OFFICE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(N)PW / (E)	(E)	(E)	(E)	(E) 12'-0"	
110	AA-001: OFFICE / OFFICE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(N)PW / (E)	(E)	(E)	(E)	(E) 12'-0"	
111	AA-001: STORAGE / WOMENS LOUNGE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E) PW / (E) PW	(E) / (E)	(E) PW / (E)PW	(E) / (E)	(N) GB / (E)	(N) L4 / (E)	(E) PW / (E)PW	(E) / (E)	(E) 12x12 ACT o/ 1/2" GB	(N)FF / (E)	(E) 9'-6"	AA#001: 5, 6
112	AA-001: UNISEX STAFF TOILET / WOMENS R.R.	SV / (E)	FF	ICB / (E)	FF	6"	FRP / (E)	FF / (E)	9'-6"	(N) GB / (N)GB	L4 / (E)	(N)GB / (E)	L4 / (E)	(E)	(E)	(E) GB / (E)PW	L4 / (E)	(N) GB / (E)	L4 / (E)	9'-6"	AA#001: 5, 6
113	OFFICE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E) 9'-6"	
114	HALL	(E) CPT	FF	(E)RTB	FF	4"	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(N) 12x12 ACT o/ (2)5/8" GB	FF	9'-6"	5, 6, 12
115	OFFICE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E) 9'-6"	
116	OFFICE	(E)	(E)	(E)	(E)	(E)	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E) 9'-6"	
117	OFFICE	CPT	FF	RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (E)/(N) PW LW: (E)/(N) PW O/ TB	UW: (N) P LW: FF	(N) SAT	FF	9'-6"	4, 5, 6
118	HALL	CPT	FF	RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (E)/(N) PW LW: (E)/(N) PW O/ TB	UW: (N) P LW: FF	(E)/(N) PW (E) SS	(N) P	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(N) SAT	FF	9'-6"	4, 5, 6
119	HEALTH SUITE	SV	FF	RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (E)/(N) PW LW: (E)/(N) PW O/ TB	UW: (N) P LW: FF	(E)/(N) PW & GB (E) SS	(N) P	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(N) SAT	FF	9'-6"	4, 5, 6
120	NURSE TOILET ROOM	SV	FF	CB	FF	6"	FRP	FF	9'-6"	(N) GB	L4	(N) GB	L4	(N) GB	L4	(N) GB	L4	(N) GB	L4	9'-6"	4, 5, 6,12
121	OFFICE	SV	FF	RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(E)/(N) PW & GB (E) SS	(N) P	(N) SAT	FF	9'-6"	4, 5, 6,12
122	ISOLATION ROOM	SV	FF	RTB	FF	4"	-	-	-	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	UW: (N) GB LW: TB O/ (N) GB	UW: (N) P LW: FF	(E)/(N) PW & GB (E) SS	(N) P	(N) SAT	FF	9'-6"	4, 5, 6

DOOR SCHEDULE

DOOR SCHEDULE — 6/5/2026

DOOR NO.	TYPE NO	DOOR OPENING SIZE	DOOR THK	DOOR MAT	DOOR CORE	DOOR FIN.	FRAME MAT	FRAME FIN	GLASS SIZE	LOUVER SIZE	U/L RATG	HARDWARE NO.	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS SILL	REMARKS
100	N	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	6x30	-	-	80C	11/A8.01	12/A8.01	12/A8.01	-	
101	N	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	FF	P	6x30	-	-	80C	11/A8.01	12/A8.01	12/A8.01	-	
102A	N	3'-6" x 7'-0"	1 3/4"	HM	SOLID	FF	HM	P	6x30	-	-	22C	1/A7.01	2/A7.01	2/A7.01	3/A7.01	D
102B	G	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	24x30	-	-	22C	11/A8.01	12/A8.01	12/A8.01	-	
103	G	3'-6" x 7'-0"	1 3/4"	HM	SOLD	FF	HM	P	6x30			22C	1/A7.01	9 & 10/ A7.01	2/A7.01	6&7/A7.01	D
104	F	(E) 3'-0" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	HM	P	6x30	-	20 MIN.	53C	(E)	(E)	(E)	(E)	
105	F	(E) 3'-0" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	HM	P	6x30	-	20 MIN.	53C	(E)	(E)	(E)	(E)	
106	C.O.	4'-0" x 7'-0"	-	-	-	-	HM	P	-	-	-	-				-	
107A	(E)	2'-6" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
107B	(E)	2'-0" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
108	(E)	2'-6" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	(E)	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
109	F	(E) 3'-0" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	HM	P	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
110A	G	3'-0" x 6'-8"	1 3/4"	WD	SOLID	FF	(E) WD	(E)	6x30	-	20 MIN.	53C	11/A8.01	12/A8.01	12/A8.01	-	C
110B	G	(E) 3'-6" x 7'-0"	(E) 1 3/4"	HM	SOLD	FF	P	P	24x30	-	-	(E)	(E)	(E)	(E)	(E)	
111	F	(E) 2'-6" x 6'-8"	(E) 1 3/4"	WD	SOLID	FF	HM	(E)	-	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
112	F	2'-0" x 6'-8"	1 3/4"	WD	SOLID	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
113A	F	(E) 2'-6" x 6'-8"	1 3/4"	WD	SOLID	P	WD	P	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
113B	G	(E) 3'-6" x 7'-0"	1 3/4"	HM	SOLD	P	HM	P	24x30	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
115A	F	(E) 2'-6" x 6'-8"	1 3/4"	HM	SOLD	P	WD	P	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
115B	G	(E) 3'-6" x 7'-0"	1 3/4"	HM	SOLD	P	HM	P	24x30	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
116A	F	(E) 2'-6" x 6'-8"	1 3/4"	HM	SOLID	P	WD	P	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
116B	G	(E) 3'-6" x 7'-0"	1 3/4"	HM	SOLD	P	HM	P	24x30	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
117	G	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	24x30	-	-	53C	11/A8.01	12/A8.01	12/A8.01	-	
119	G	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	24x30	-	-	53C	11/A8.01	12/A8.01	12/A8.01	-	
120	F	3'-0" x 6'-8"	1 3/4"	WD	SOLID	FF	HM	P	-	-	-	75RR	11/A8.01	12/A8.01	12/A8.01	-	
121	GS	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	24x30	-	-	53C	11/A8.01	12/A8.01	12/A8.01	-	
122	GS	3'-0" x 7'-0"	1 3/4"	WD	SOLID	FF	HM	P	24x30	-	-	53C	11/A8.01	12/A8.01	12/A8.01	-	

M&F LEGEND

AT	= ACOUSTICAL WALL TILE	PW-FRT	= FIRE RESISTIVE TREATED PLYWOOD
ACT	= ACOUSTICAL CEILING TILE	(R)	= REMOVE
CB	= COVED BASE	(RR)	= REMOVE & RELOCATE
CPT	= CARPET	RTB	= RUBBER TOPSET BASE.
(D)	= DEMOLISH	SAT	= SUSPENDED ACOUSTICAL TILE CEILING
(E)	= EXISTING	SV	= SHEET VINYL
FE	= FIRE EXTINGUISHER	SVS	= SHEET VINYL SELF COVED
FF	= FACTORY FINISH	SS	= STEEL WINDOW SASH
GB	= GYPSUM BOARD	TB	= TACKBOARD
L4	= GYPSUM WALL FINISH LEVEL 4	TP	= TEXTURE & PAINT
LP	= LAMINATED PLASTIC	U.O.N.	= UNLESS OTHERWISE NOTED
LW	= LOWER WALL	UW	= UPPER WALL
P	= PAINT SYSTEM - SEE SPECIFICATIONS	VFT	= VINYL FLOOR TILE
PW	= PLYWOOD		

M&F GENERAL NOTES

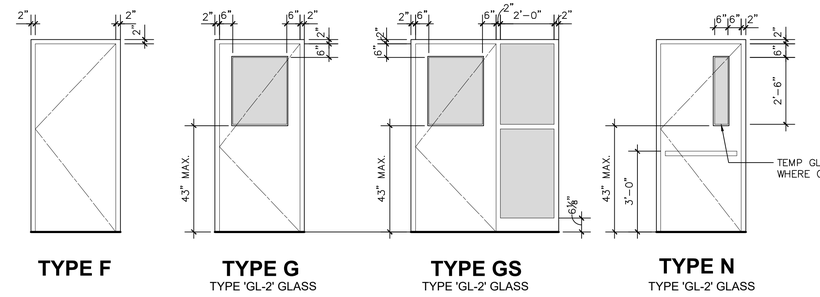
1. ALL FLOOR PLAN ROOM NAMES AND NUMBERS ARE FOR CONSTRUCTION INFORMATION ONLY. THE CONTRACTOR SHALL COORDINATE ACTUAL ROOM NAMES & NUMBERS WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING ANY ROOM SIGNAGE.
2. SEE SPECIFICATIONS FOR ADDITIONAL FINISH MATERIAL INFORMATION.
3. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
4. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT AS PER CBC 11B-302.1
5. ALL GLAZING TO COMPLY WITH CBC 2406.3
6. GYP BOARD TEXTURE TO BE LIGHT SPAY PER SPECIFICATIONS

MAT. & FIN. SCH. REMARK NOTES

REMARK NOTES

1. PAINT ALL SIDES OF CABINET DOORS & EXPOSED FACES REMOVE & REPLACE TACKBOARDS.
2. REPAIR AND/OR REPLACE DAMAGED ACOUSTICAL TILES.
3. TACKBOARD HEIGHT IS TO THE BOTTOM OF ACOUSTICAL WALL TILE TRANSITION.
4. TACKBOARD HEIGHT IS 7'-0" ABOVE FINISH FLOOR, U.O.N.
5. INFILL WALL OPENING WITH SIM. FRAMING & FINISHES AS (E) ADJACENT WALL.
6. ALL HOLES (N) & (E) HOLES IN WALLS SHALL HAVE SOLID BACKING & EPOXY SHALL BE INSTALLED AS TOP COAT W/ FINISH TO MATCH (E) ADJACENT SURFACE.
7. PROVIDE WALKOFF CARPET AT EXTERIOR DOOR(S)
8. PAINT ALL WINDOW &/OR DOOR TRIM
9. PAINT ALL WOOD WORK/TRIM
10. PAINT ALL METAL SIDING
11. PAINT ENTIRE CEILING IF (N) TILES ARE INSTALLED
12. FIRE STOP ALL PENETRATIONS INTO (E) WALL

DOOR TYPES



TYPE F

TYPE G — TYPE 'GL-2' GLASS

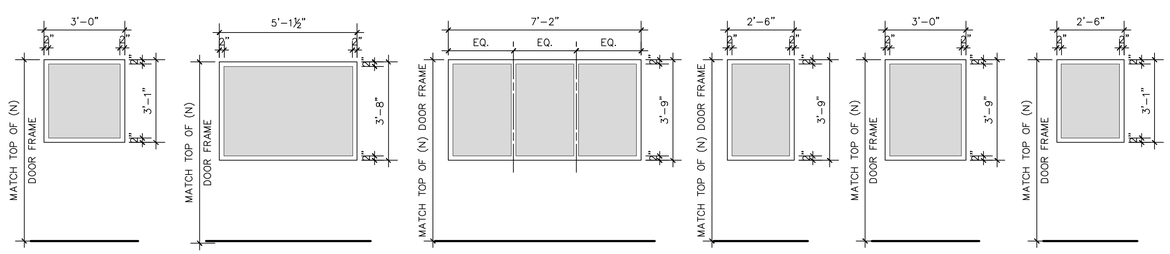
TYPE GS — TYPE 'GL-2' GLASS

TYPE N — TYPE 'GL-2' GLASS

M&F NOTES

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5. ALL GLAZING TO COMPLY WITH CBC 2406.3
6. GYP BOARD TEXTURE TO BE LIGHT SPAY PER SPECIFICATIONS

WINDOW TYPES



TYPE A — TYPE B — TYPE C — TYPE D — TYPE E — TYPE G &F

DOOR REMARK NOTES

(A) PAINT INTERIOR DOOR & FRAME.

(B) PAINT DOOR & FRAME @ ALTERATION SIDE OF DOOR.

(C) REVERSE DOOR SWING.

(D) MODIFY (E) STEEL SASH ASSEMBLY.

ACCESSIBILITY NOTE

1. THE MAXIMUM EFFORT TO OPERATE EXTERIOR DOORS SHALL NOT EXCEED 5 POUNDS. CBC 11B-404.2.9 AT ACCESSIBLE ENTRANCES
2. CBC 1010.1.11 - NEW BUILDINGS ON A K-12 PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.1.9. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

DOOR ABBREVIATIONS

FF	=	FACTORY FINISH, SEE SPECS.
HM	=	HOLLOW METAL
INSUL	=	INSULATED
L	=	LAMINATED
P	=	PAINT (SEE SPECS)
SC	=	SOLID CORE
WD	=	WOOD
MTL	=	METAL
TEMP	=	TEMPERED
AL	=	ALUMINUM
STL	=	STEEL
SS	=	STAINLESS STEEL

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DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

Project Address:

COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
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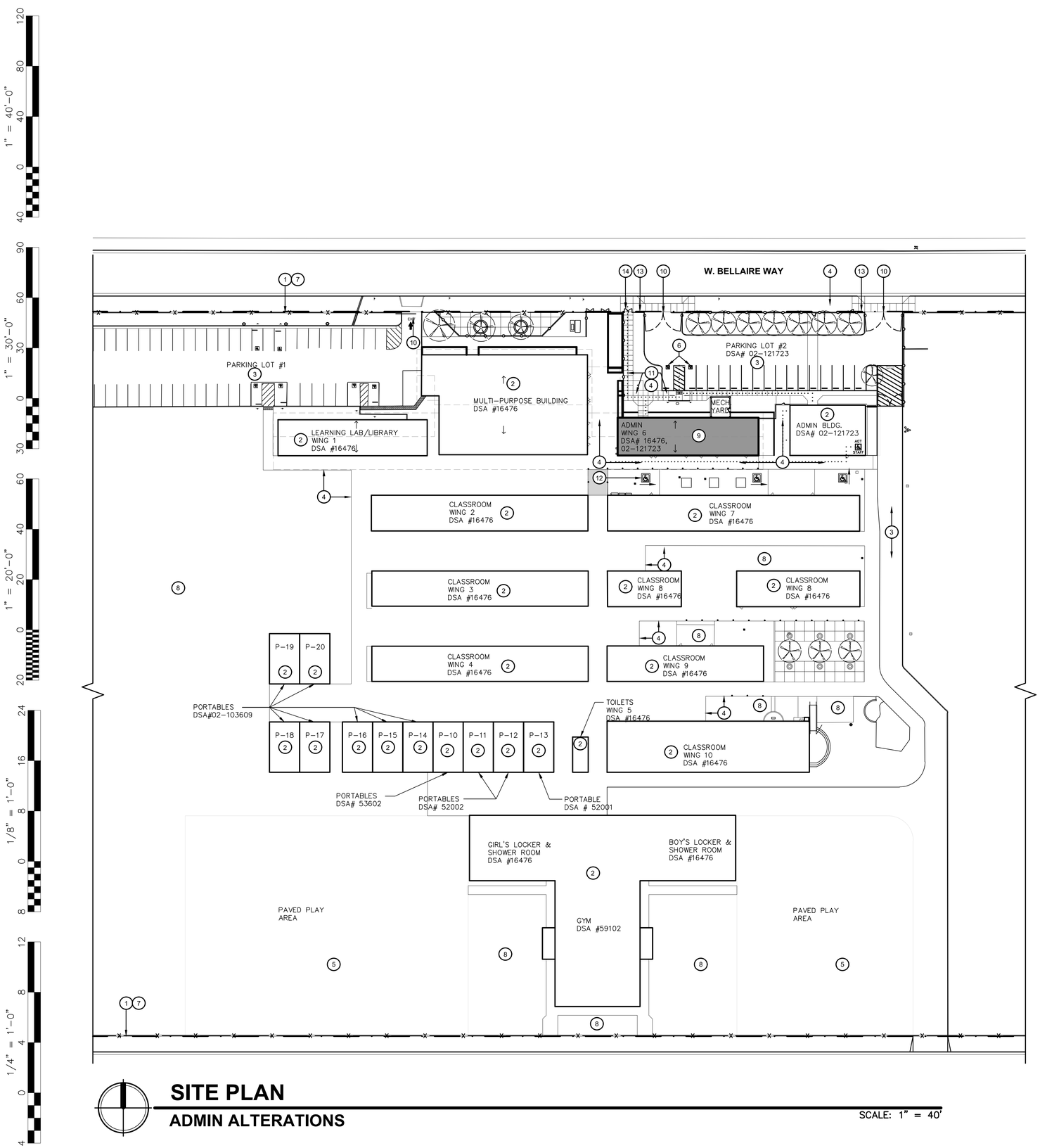
SCHEDULES

Job No.: **5599.2**

Sheet No.: **A0.01**

Release: Issue Date 6/5/26

G:\2023frs\23-5599.2 Cooper Middle School\Sheets SCOTT DEWEY



SITE PLAN

ADMIN ALTERATIONS

SCALE: 1" = 40'

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) PROPERTY LINE (TYP.).
2. (E) BUILDING. NO WORK (TYP.).
3. (E) AC PAVING.
4. (E) CONCRETE FLATWORK & SIDEWALK (TYP.).
5. (E) HARD COURT PLAY AREA.
6. (E) ACCESSIBLE PARKING STALLS AND SIGNAGE TO REMAIN, PER DSA APP# 02-121723.
7. (E) CHAIN LINK FENCING.
8. (E) TURF AREA
9. BUILDING TO BE ALTERED
10. (E AUTOMATIC CHAINLINK DRIVE GATE W/ FIRE DEPARTMENT APPROVED PULL BOX
11. ACCESSIBLE PATH OF TRAVEL (POT) APPROVED BY DSA # 02-121723
12. SIGNS WILL BE REQUIRED IF ADD ALTERNATE #1 IS NOT USED.
13. (E) TOW AWAY SIGNAGE PER DSA #02-121723
14. (E) DECORATIVE METAL GATE PER DSA # 02-121732
15. (E) ROOF OVERHANG.

P.O.T. NOTES

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT 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 SO 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ARCHITECT HAS INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE
- FREE OF ABRUPT LEVEL CHANGES EXCEEDING ¼" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼"
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE
- WITH A RUNNING SLOPE OF 1:20 (5%) OR LESS AND WITH A CROSS SLOPE OF 1:50 (2%) OR LESS OR A RAMP WITH A RUNNING SLOPE OF 1:12 (8.33%) AND A CROSS SLOPE OF 1:50 (2%) WITH APPROPRIATE REQUIREMENTS AS DETAILED WITHIN THIS SET OF DOCUMENTS.
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE.
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
- THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK (11B-303.5).
- WALKS IN P.O.T. SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. GRATING WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE DRID OPENINGS AT 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW PER CBC SECTION 11B-302.3.
- WHEN PROVIDED, ALL GATES IN P.O.T. MUST COMPLY WITH 11B-404 REQUIREMENTS. PROVIDE A 24" MIN. STRIKE SIDE CLEARANCE ON THE PULL SIDE AND A SMOOTH SURFACE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF GATE. GATES TO HAVE ACCESSIBLE LEVER HARDWARE.

SAFE DISPERAL

BUILDING @ (60'x40')	=	2400 S.F.
2400 S.F. / 150 S.F. PER OCCUPANT	=	16 OCCUPANTS
16 OCCUPANTS x 5 S.F. / OCCUPANT	=	80 S.F. REQ'D
900 S.F. PROVIDED	=	OK

NOTE:
SAFE DISPERSAL AREA MUST BE 50' MIN. AWAY FROM ANY BUILDING. AREA SHALL BE PROVIDED WITH A SAFE AND UNOBSTRUCTED PATH OF TRAVEL FROM ANY BUILDING

PARKING SUMMARY

PARKING LOT #1
TOTAL STALLS: 86
ACCESSIBLE PARKING REQUIRED: 1 VAN
ACCESSIBLE PARKING PROVIDED: 4 (2 VAN)

PARKING LOT #2
TOTAL STALLS: 17
ACCESSIBLE PARKING REQUIRED: 1 VAN
ACCESSIBLE PARKING PROVIDED: 1 VAN

LEGEND

EXISTING BUILDING TO REMAIN (NO WORK)

(E) BUILDINGS TO BE ALTERED

ACCESSIBLE PATH OF TRAVEL

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FRESNO, CA

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Project Address:

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integrated designs
by SOMAM, Inc.

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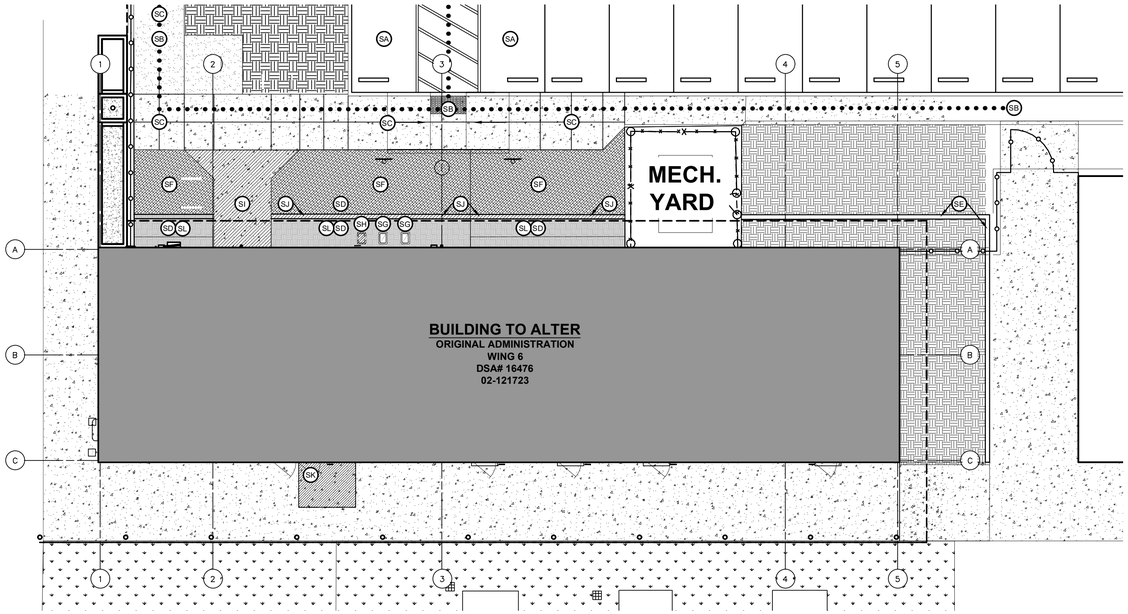
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SITE PLAN

Job No.: **5599.2**

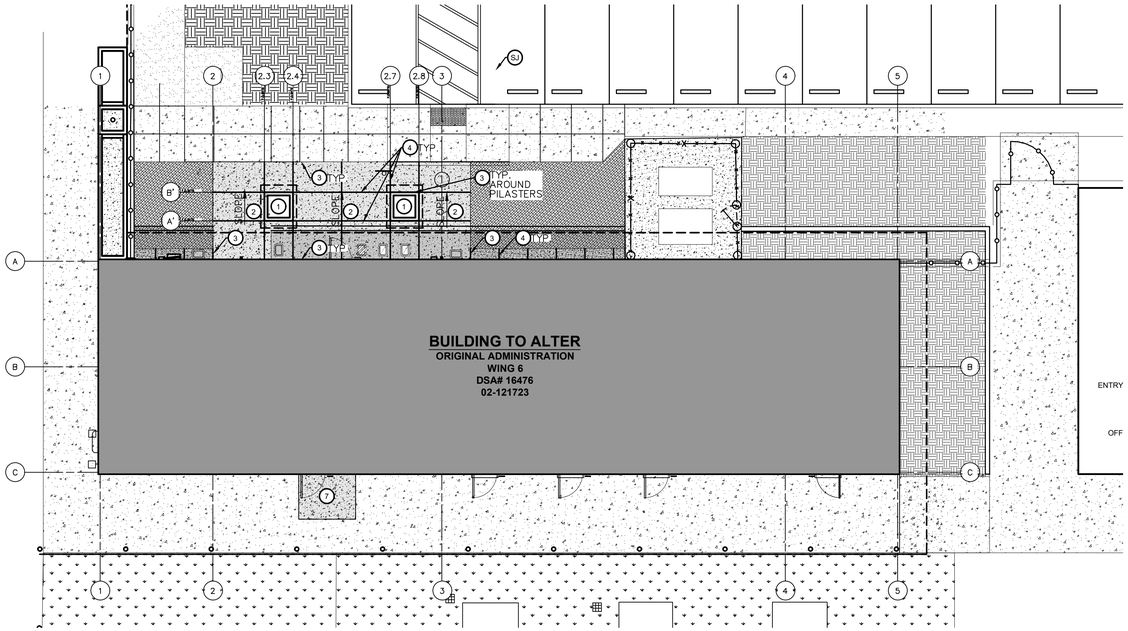
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Release: Issue Date



1 DEMOLITION ENLARGED SITE PLAN

1" = 10'



1 ENLARGED SITE PLAN

1" = 10'

(N) KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

1. (N) ENTRY ELEMENT, SEE SHEET S2.0 FOR FOUNDATION PLAN.
2. (N) CONCRETE FLATWORK W/ MEDIUM BROOM NON-SLIP FINISH PERPENDICULAR TO THE MAIN WALK SLOPE (I.E. PARALLEL WITH CROSS SLOPE DIRECTION). SEE DETAIL 1/A1.02 FOR SLAB INFORMATION. 2% MAXIMUM SLOPE IN ANY DIRECTION.
3. (N) EXPANSION/CONSTRUCTION JOINT, SEE DETAIL 2/A1.02.
4. (N) CONTROL JOINT AND/OR SAW-CUT JOINT, SEE DETAIL 2/A1.02.
5. (N) CONC. FLATWORK TO (E) CONC. FLATWORK, SEE DETAIL 3/A1.02.
6. (N) CONCRETE INFILL FLATWORK. SEE DETAIL 2/A1.02 FOR MORE INFO.
7. (N) CONCRETE TOPPING ON (E) SLAB TO CREATE A LEVEL LANDING AT (N) DOOR OPENING PER DETAIL 6&7/A7.01.

(E)/(D) KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

SA. ACCESSIBLE PARKING STALL, SEE SHEET A1.00 FOR MORE INFO.

SB. ACCESSIBLE PATH OF TRAVEL, SEE SHEET A1.00 FOR INFO.

SC. (E) CONC. FLAT WORK WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.

SD. (E) SOIL. MODIFY AS NEEDED TO ACCOMODATE (N) ENTRY ELEMENT AND GRADING FOR THE (N) FLATWORK.

SE. (E) CONCRETE CURB.

SF. (E) MULCH.

SG. (E) IRRIGATION CHRISTY BOX & IRRIGATION FIXTURES.

SH. (R) IRRIGATION CHRISTY BOX & IRRIGATION FIXTURES, SEE PROPOSED PLANS.

SI. (D) CONCRETE FLATWORK - SAWCUT.

SJ. (D) CONCRETE CURB.

SK. (D) CONCRETE FLATWORK TO ACCOMMODATE (N) LANDING.

SL. (E) IRRIGATION, MODIFY AS REQUIRED TO ADAPT TO (N) ENTRY ELEMENT & CONCRETE FLATWORK.

GENERAL NOTES

A. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A C.C.D. OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

*PER DSA IR 16-1, SEC. 5.4

B. CONTRACTOR SHALL ADJUST ALL DOOR CLOSERS TO A MAXIMUM OPENING FORCE OF 5 LBF

C. ALL IRRIGATION WITHIN THE AREA OF CONSTRUCTION TO BE REMOVED, REROUTED, ALTERED AND/OR REINSTALLED AS REQUIRED TO PROVIDE COMPLETE AND ADEQUATE COVERAGE FOR THE REMAINING LANDSCAPED AREAS

LEGEND

PLAN GRAPHICS

- (E) CONC. TO REMAIN.
- (D) CONC.
- (N) CONC.
- (E) FINISHED GRADE.
- (D) FINISHED GRADE.
- (E) WALK ON WOOD BARK.
- (N) WALK ON WOOD BARK.

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FRESNO, CA 93705

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by SOMAM, Inc.

**ARCHITECTURE
ENGINEERING
INTERIOR DESIGN**

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CURTIS E. FLYNN
No. C 29955
REN. 5-31-27
STATE OF CALIFORNIA

Sheet Title:

ENLARGED SITE PLAN

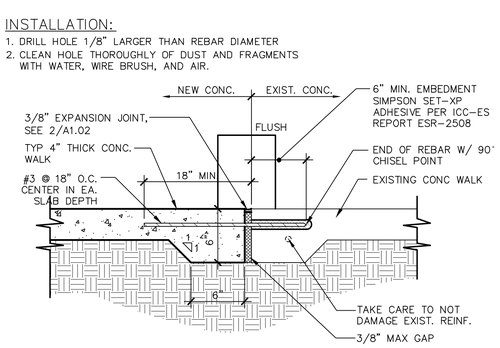
Job No.: **5599.2**

Sheet No.: **A1.01**

Release: Issue Date 6/4/26

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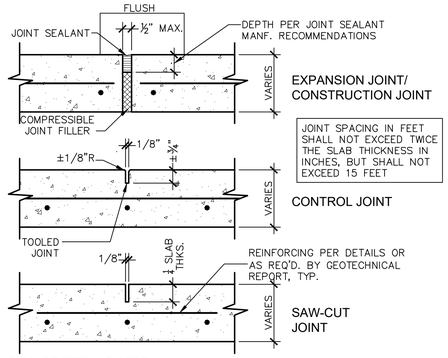
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3 A1.02 (N) CONC WALK TO (E) CONC WALK

ADS100-05

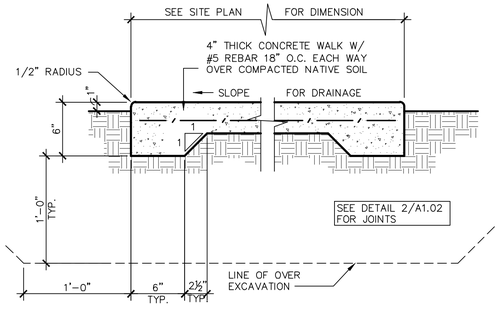
SCALE: 1" = 1'-0"



2 A1.02 CONCRETE JOINTS

ADS110-01

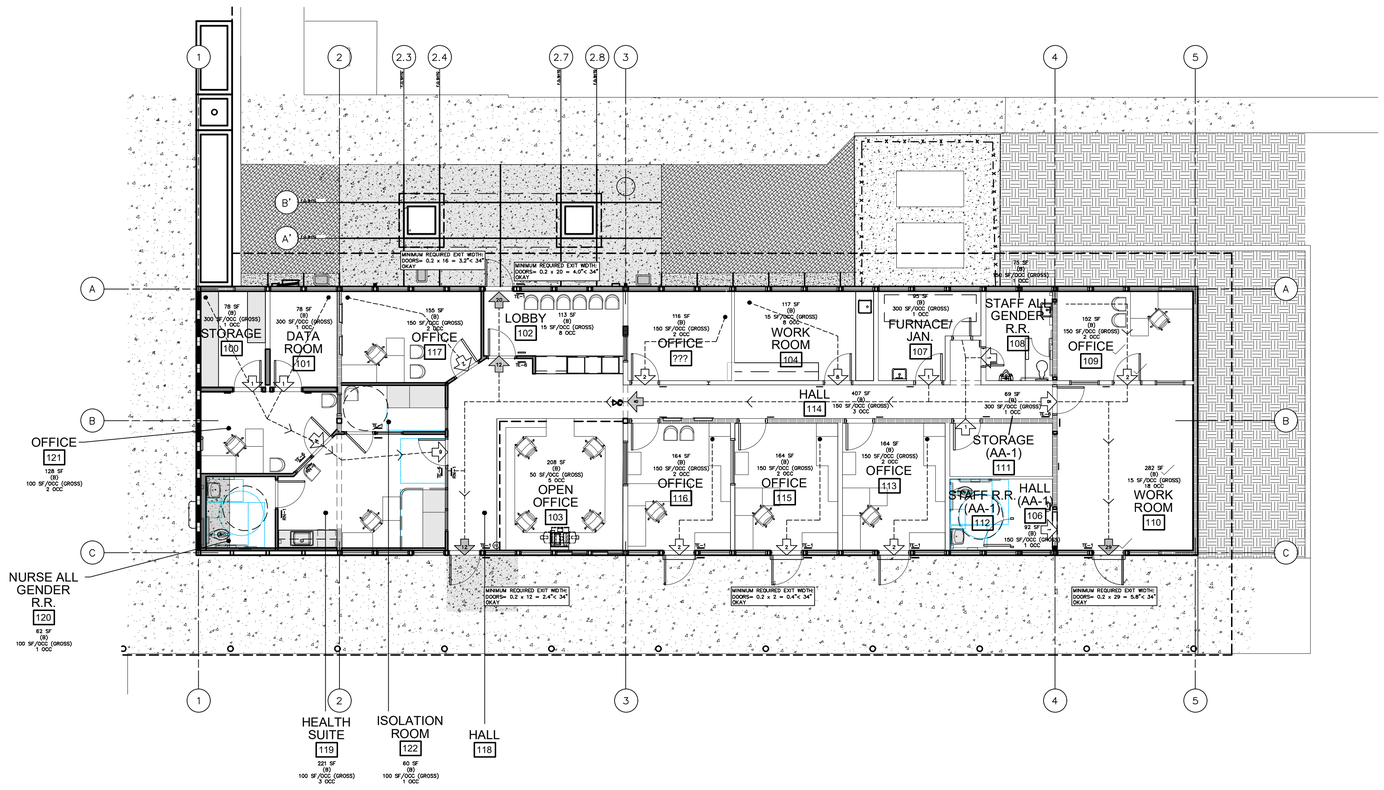
SCALE: 1" = 1'-0"



1 A1.02 TYPICAL CONCRETE WALK

ADS100-15

SCALE: 1" = 1'-0"



CODE COMPLIANCE PLAN

ADMIN ALTERATIONS

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

CODE ANALYSIS

BUILDING ANALYSIS

MULTI-PURPOSE BUILDING

A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302):
1. B (BUSINESS AREAS)

B. CONSTRUCTION TYPE (CBC 602):
1. V-B (NON-FIRE SPRINKLERED)

C. HEIGHT IN FEET:
1. ALLOWABLE (CBC TABLE 504.3): 40 FEET
2. ACTUAL: 14 FEET

D. HEIGHT IN STORIES:
1. ALLOWABLE (CBC TABLE 504.4): 2 STORIES
2. ACTUAL: 1 STORY

E. OCCUPANCY SEPARATION (CBC SECTION 508.3)
1. NONE REQUIRED

F. ACTUAL AREA:

ENCLOSED: =	1,200 S.F.
OVERHANG: =	2,124 S.F.
TOTAL:=	3,548 S.F.

LEGEND

- PATH OF TRAVEL
- MOST REMOTE OCCUPIED LOCATION
- DIRECTION OF EGRESS
- XX — NUMBER OCCUPANTS EXITING
- ROOM 100 — ROOM NAME & NUMBER
- 150 SF (NET) — ROOM AREA
- (A) 50 SF/OCC 00 OCC — OCCUPANT LOAD FACTOR CALCULATED OCCUPANT LOAD
- EXIT
- F.E.C. — FIRE EXTINGUISHER & CABINET, SEE 5/A8.16

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APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

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Project Address:

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DETAILS

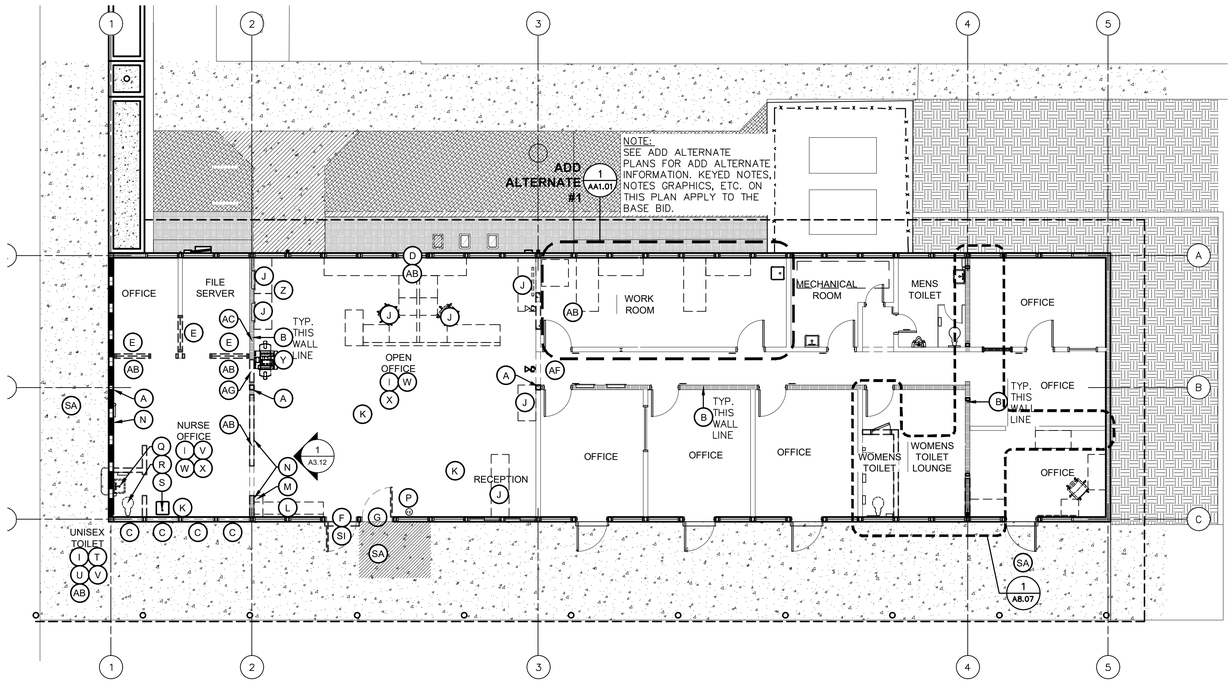
Job No.: **5599.2**

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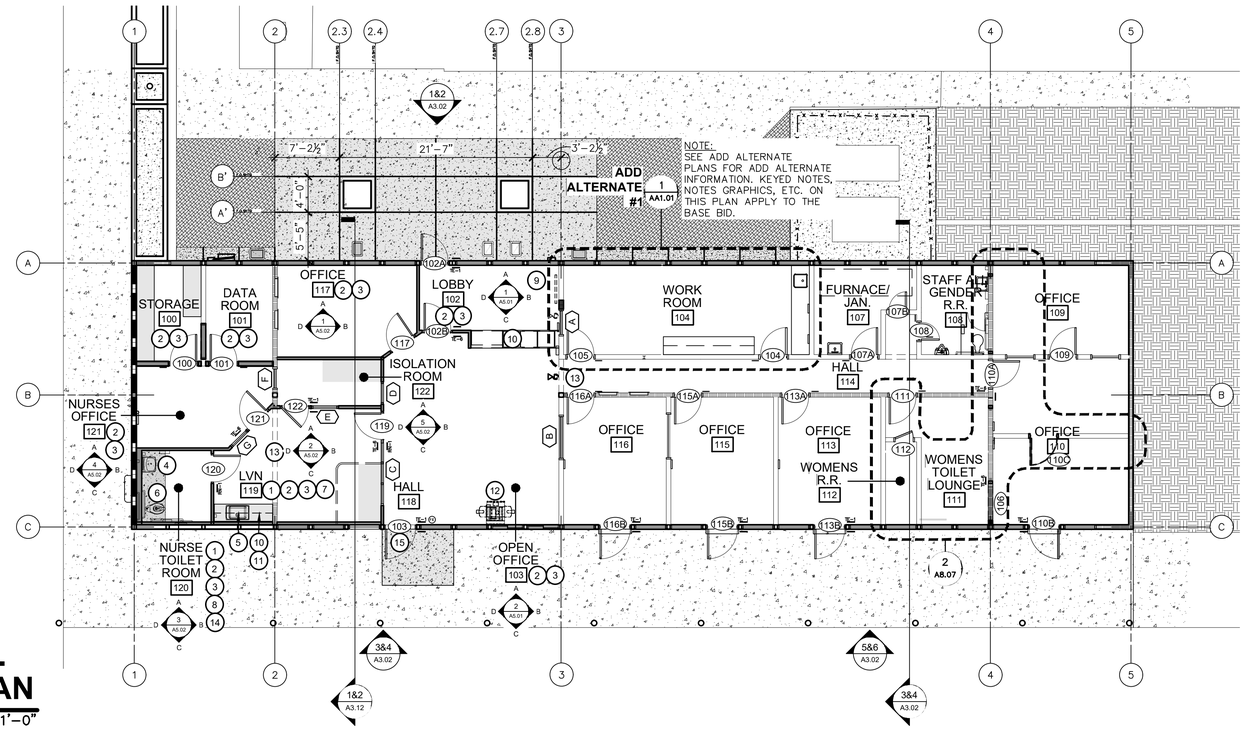
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DEMOLITION FLOOR PLAN

1

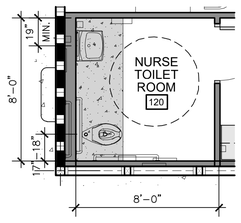
SCALE: 1/8" = 1'-0"



FLOOR PLAN

2

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



NURSE TOILET 120 - ENLARGED FLR PLAN

3

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

NURSE TOILET 120 -

(N) KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

1. SEE PLUMBING PLAN FOR CAPPING OF PLUMBING. INFILL & PROVIDE BACKING FOR (N) NON-SHRINK EPOXY.
2. PROVIDE (N) WALL FINISH ASSEMBLY AT DEMOED AREAS TO MATCH ADJACENT WALL, TYP. - SEE FINISH SCHEDULE FOR MORE INFO.
3. PROVIDE (N) WALL INFILL AT DEMOED AREAS TO MATCH ADJACENT WALL FRAMING & FINISH, TYP. UNLESS OTHERWISE NOTED. SEE FINISH SCHEDULE.
4. (N) LAVATORY ASSEMBLY - SEE PLUMBING PLAN.
5. (N) SINK ASSEMBLY - SEE PLUMBING PLAN.
6. (N) WATER CLOSET ASSEMBLY - SEE PLUMBING PLAN.
7. (N) DEFIBRILLATOR WALL MOUNTED CABINET ASSEMBLY
8. (N) PLUMBING ACCESSORIES - SEE INTERIOR ELEVATIONS.
9. (N) FULL HEIGHT CABINET TO COVER UTILITY BOXES VERIFY SPACING & DEPTH W/ EQUIPMENT
10. (N) PLASTIC LAMINATE BASE CABINET WITH SOLID SURFACE COUNTERTOP - SEE DETAIL 5/A8.01
11. (N) UPPER CABINET ASSEMBLY - SEE DETAIL 5/A8.01
12. (N) PHOTO COPIER LOCATION - SEE ELECTRICAL PLANS FOR MORE INFO.
13. WALL ABOVE SHOWN DASHED.
14. (N) CONCRETE INFILL FLATWORK.
15. (N) CONCRETE TOPPING ON (E) SLAB TO CREATE A LEVEL LANDING AT (N) DOOR OPENING PER DETAIL 5/A3.01.

LEGEND

WALLS

- (E) WOOD 2X STUDS @ 16" O.C. NON BEARING PARTITION.
- (E) WOOD 2X6 STUDS @ 16" O.C. BEARING WALL.
- (D) WALL ASSEMBLY (WALL IS NON BEARING PARTITION, U.O.N. VERIFY PRIOR TO DEMO.)
- (N) 2X4 WOOD STUDS @ 16" O.C. WALL ASSEMBLY – SEE 16/A8.03.

WINDOWS

- (E) WINDOW ASSEMBLY TO REMAIN.
- (D) WINDOW ASSEMBLY.
- (N) WINDOW ASSEMBLY.

DOORS

- (E) DOOR ASSEMBLY TO REMAIN.
- (D) DOOR ASSEMBLY.
- (N) DOOR ASSEMBLY.

FIXTURES

- (E) WATER CLOSET TO REMAIN.
- (D) WATER CLOSET ASSEMBLY.
- (N) WATER CLOSET ASSEMBLY.
- (E) LAVATORY/SINK TO REMAIN.
- (D) LAVATORY/SINK ASSEMBLY.
- (N) LAVATORY/SINK ASSEMBLY.

PLAN GRAPHICS

- (E) CONC. TO REMAIN.
- (D) CONC.
- (N) CONC.
- (E) FINISHED GRADE.
- (D) FINISHED GRADE.
- (E) WALK ON WOOD BARK.
- (N) WALK ON WOOD BARK.

(E)/(D) KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

A. (E) 4X6 BEARING POST.
B. (E) BEARING WOOD STUD WALL.
C. (E) EXTERIOR WALL WITH (E) PLASTER FINISH ON THE EXTERIOR FACE & PLYWOOD VENEER FINISH ON THE INSIDE FACE.
D. (D) WINDOW ASSEMBLY AS REQUIRED TO ACCOMODATE (N) DOOR ASSEMBLY AT THE (E) STEEL SASH FRAME BETWEEN THE (E) 4X6's.
E. (D) WINDOW ASSEMBLY.
F. (D) DOOR ASSEMBLY & MODIFY (E) STEEL SASH FRAME TO ACCEPT NEW STEEL SASH FRAME & GLAZING SIM. TO (E) ADJACENT ASSEMBLY.
G. (D) DOOR ASSEMBLY AND MODIFY (E) STEEL SASH DOOR FRAME TO ACCEPT (N) DOOR ASSEMBLY WITH REVISED DOOR SWING.
H. (D) POCKET DOOR ASSEMBLY & RE-FRAME WALL WITH IN KIND FRAMING OF ADJACENT WALL.
I. (D) FLOOR COVERING THROUGHOUT RENOVATION AREA WHERE (N) FLOORING IS BEING INSTALLED. (D) FLOORING ASSEMBLY TO TOP OF SLAB OF & WALL BASE.
J. SALVAGE AND REMOVE (E) MODULAR FURNITURE ASSEMBLY. RETURN TO OWNER.
K. (D) CASEWORK ASSEMBLY.
L. (D) BENCH ASSEMBLY.
M. (D) MAGAZINE HOLDER.
N. (D) TACK BOARD WITH METAL FRAME ASSEMBLY.
O. (D) TACK BOARD WALL VENEER.
P. (R) FIRE EXTINGUISHER, VERIFY LOCATION WITH OWNER.
Q. (D) WALL HUNG LAVATORY ASSEMBLY, SEE PLUMBING PLAN.
R. (D) WATER CLOSET ASSEMBLY, SEE PLUMBING PLAN.
S. (D) SINK & FAUCET ASSEMBLY, SEE PLUMBING PLAN.
T. (D) ALL TOILET ROOM ACCESSORIES.
U. SAWCUT AND REMOVE PORTION OF (E) SLAB TO CAP OFF PLUMBING LINE AS NEEDED. PROVIDE ROUGH SURFACE FOR NEW PATCH.
V. DEMOLISH PORTION OF WALL FINISH TO (E) STUD TO ACCESS PLUMBING AND PLUMBING SUPPORTS, TYP. THIS WALL
W. (R) FLAG HOLDERS, SEE OWNER FOR (N) LOCATION.
X. (D) WINDOW COVERING ASSEMBLY
Y. (R) PHOTO COPIER POWER & DATA, SEE ELECTRICAL DRAWINGS.
Z. (R) WALL MONITOR ASSEMBLY, SEE ELECTRICAL PLANS.
AA. (E) CONDUITS & ELECTRICAL FIXTURES ALONG THIS WALL COORDINATE W/ CONSULTANT DRAWINGS
AB. (D) CONDUITS & ELECTRICAL FIXTURES ALONG THIS WALL COORDINATE W/ CONSULTANT DRAWINGS
AC. (R) FIRE ALARM PANEL SYSTEM, SEE ELECTRICAL DRAWINGS.
AD. (E) CONCRETE RAMP AND HANDRAIL - PER DSA #02-12171
AE. REMOVE PORTION OF CONCRETE AT NEW DOOR - PER DETAIL 5/A3.01
AF. (E) BULK HEAD WALL ABOVE FOR CEILING TRANSITION.
AG. (D) WALL TO ACCEPT (N) WINDOW, SEE PROPOSED FLOOR PLAN.
SA. (E) CONC. FLAT WORK WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.
SB. (E) SOIL, MODIFY AS NEEDED TO ACCOMODATE (N) ENTRY ELEMENT AND GRADING FOR THE (N) FLATWORK.
SC. (E) CONCRETE CURB.
SD. (E) MULCH.
SE. (E) IRRIGATION CHRISTY BOX & IRRIGATION FIXTURES.
SF. (R) IRRIGATION CHRISTY BOX & IRRIGATION FIXTURES, SEE PROPOSED PLANS.
SG. (D) CONCRETE FLATWORK.
SH. (D) CONCRETE. CURB.
SI. (D) CONCRETE FLATWORK TO ACCOMMODATE (N) LANDING.

GENERAL NOTES

A. EXISTING CEILING TO REMAIN, UNLESS NOTED OTHERWISE.
B. ROOM NUMBERS PROVIDED FOR CONSTRUCTION ONLY. OWNER TO PROVIDE ALL ROOM NAMES AND NUMBERS FOR BUILDING SIGNAGE
C. CONTRACTOR TO PROVIDE NEW INTERIOR FINISHES PER 'FINISH SCHEDULE' , SHEET A0.01.
D. SEE INTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION INFORMATION.

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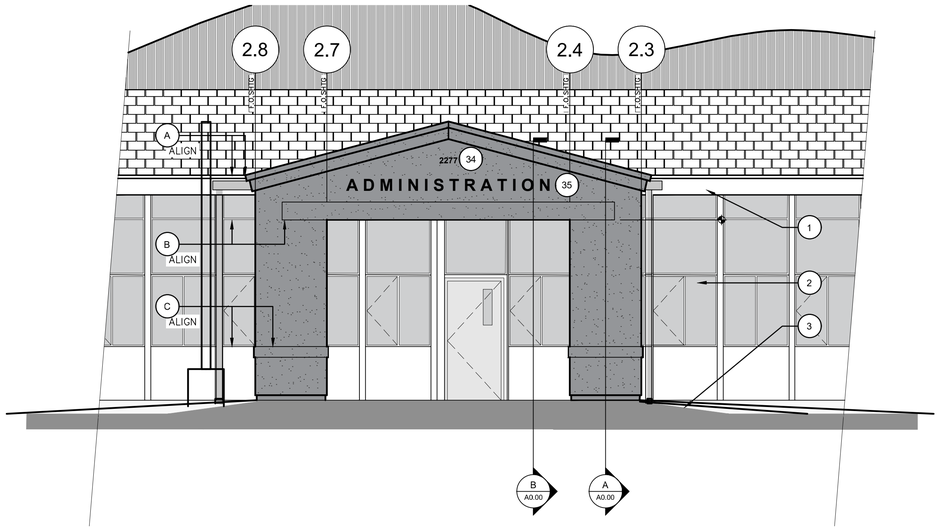
FLOOR PLAN

Job No.: **5599.2**

Sheet No.: **A2.01**

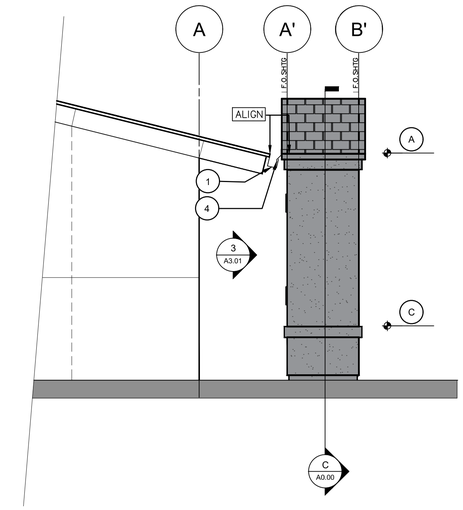
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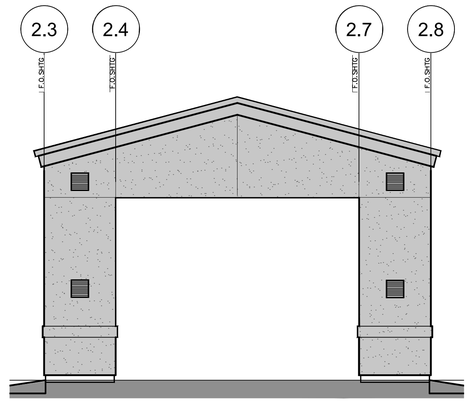
1 NORTH ELEVATION - ENTRY ELEMENT

1/4" = 1'-0"



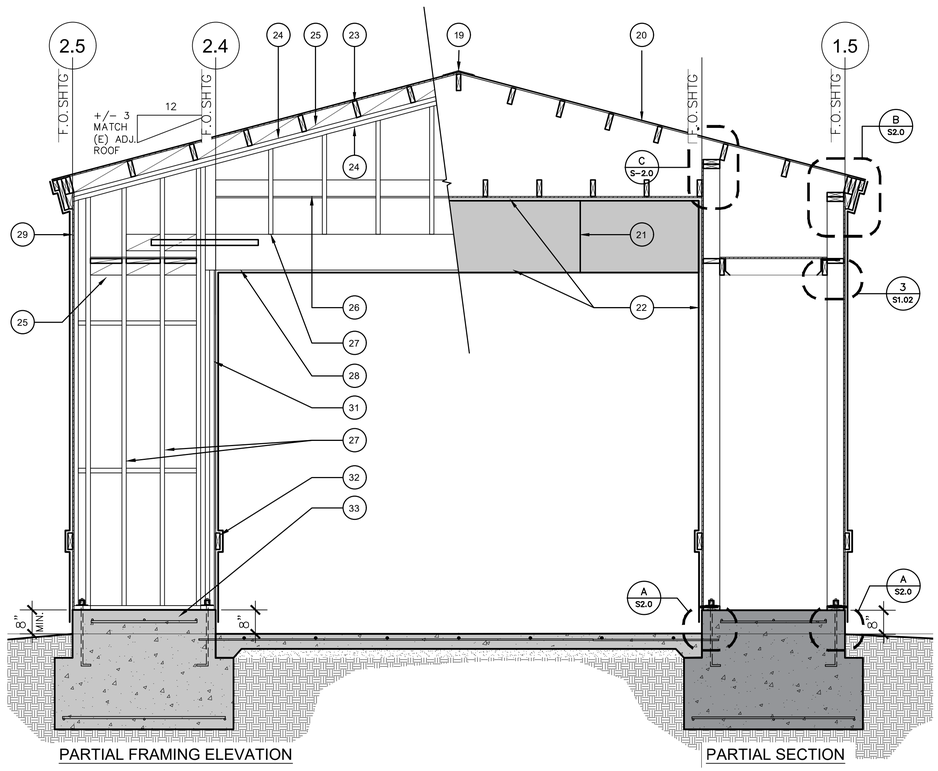
2 EAST ELEVATION - ENTRY ELEMENT

1/4" = 1'-0"



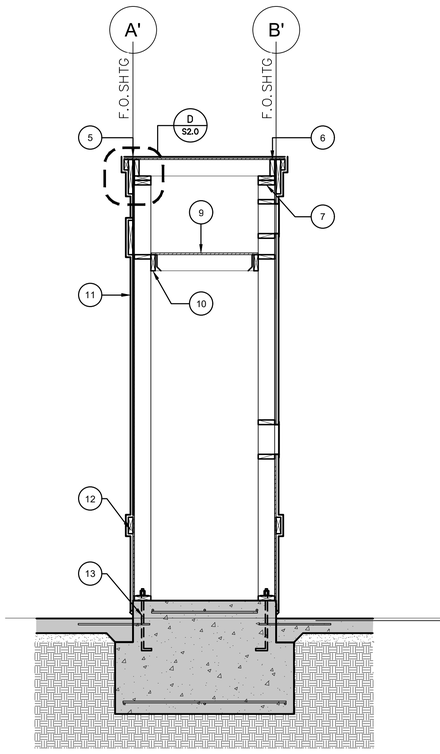
3 SOUTH ELEVATION - ENTRY ELEMENT

1/4" = 1'-0"



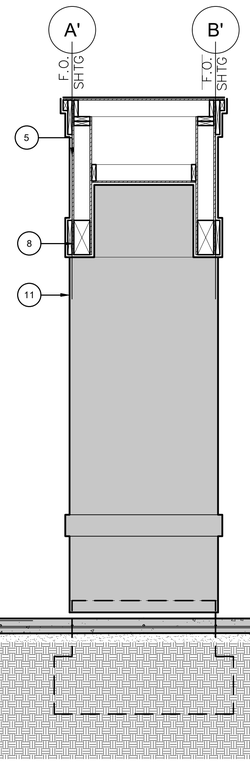
4 NORTH ELEVATION - ENTRY ELEMENT

1/2" = 1'-0"



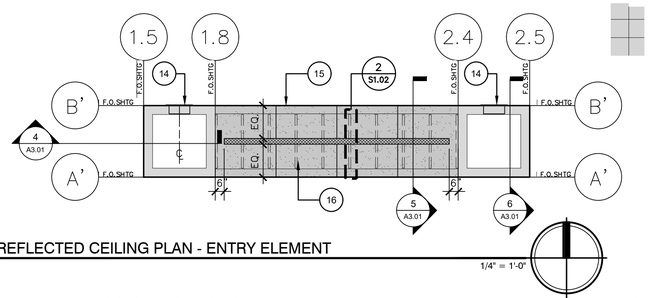
5 WALL SECTION - A

1/2" = 1'-0"



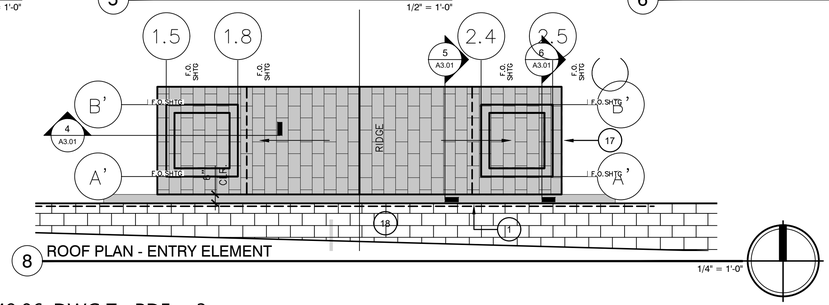
6 WALL SECTION - B

1/2" = 1'-0"



7 REFLECTED CEILING PLAN - ENTRY ELEMENT

1/4" = 1'-0"



8 ROOF PLAN - ENTRY ELEMENT

1/4" = 1'-0"

KEY NOTES

1. (N) PRE-FINISHED GUTTER, TYP.
2. (N) PRE-FINISHED DOWNSPOUT.
3. (N) CONC, SPLASH BLOCK CENTERED AWAY FROM BLDG.
4. (N) PRE-FINISHED COUNTER FLASHING.
5. (N) ROOFING ASSEMBLY O/ PLYWOOD SHTG O/ ROOF FRMG.
6. (N) SOLID BLKG, TYP.
7. (N) CONT. DBL. TOP PLATE, TYP.
8. (N) HEADER.
9. (N) PLYWOOD SHTG. SAME AS ROOF FOR FIRE STOP.
10. (N) 2x SAME THICKNESS AS WALL STUD CONT. LEDGER W/ (2) 16d COM. PER STUD, TYP. ALL SIDES.
11. (N) EXT. CFM. PLASTER WALL ASSEMBLY O/ PLYWOOD WALL SHTG O/ STUDS, TYP.
12. (N) 2x4 ACCENT BAND W/ (2) 16d COM PER STUD.
13. (N) P.T. SILL PLATE, TYP.
14. (2) 6"x14" STACKABLE LOUVERED FOUNDATION VENTS (1) AT UPPER SPACE (1) AT LOWER SPACE, TYP. (E) COLUMN SPACE.
15. (N) G.I. MEAL SCREED @ CENTERLINE OF OPENING & SAME SPACING AS WIDTH MAX.
16. (N) EX. CEM. PLASTER ASSEMBLY.
17. (N) ROOFING ASSEMBLY.
18. (E) ROOFING ASSEMBLY.
19. (1) SIMPSON ST6236 AT CENTER OF SPLICE. 1/2 TO ONE TOP PLATE SIDE 1/2 TO OTHER, TYP. BOTH GABLE FACES.
20. ROOFING ASSEMBLY O/ ROOF SHTG. O/ ROOF RAFTERS
21. V-SCREED, TYP.
22. EXT. PLASTER, PLASTER ASSEMBLY.
23. 2X R.R. @ 24" O.C.
24. CONT. DBL. 2x6 TOP PLATE - NO SPLICES.
25. 2x SOLID BLKG.
26. LEDGER PER FRAMING PLAN S2.0.
27. 2x6 STUDS @ 16" O.C.
28. BEAM PER ROOF FRAMING PLAN ON SHEET S2.0.
29. SHTG.
30. NOT USED.
31. (2) 2x6 KING STUDS (2) 2x6 TRIMMERS TYP, EA. END OF EA. BEAM.
32. 2x4 ACCENT BOARD
33. 2x6 P.T. SILL PLATE W/ ANCHORAGE PER DETAIL 1/S1.02
34. (N) ADDRESS IDENTIFICATION CHARACTERS SHALL BE CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL NOT BE SPELLED OUT. EACH CHARACTER SHALL BE A MINIMUM 4" HIGH WITH A MINIMUM STROKE WIDTH OF 1/2". PROVIDE NECESSARY BACKING FOR ANCHORAGE. WHERE REQUIRED BY FIRE CODE OFFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED.
35. (N) BUILDING IDENTIFICATION SIGN. PROVIDE NECESSARY BACKING FOR ANCHORAGE.

GENERAL NOTES

1. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION. SPECIFICALLY SHEET S2.0.

ELEV. HEIGHTS

A. +/- 11' - 10" FROM TOP OF (E) BUILDING SLAB TO UPPER APEX OF (E) FASCIA. FIELD VERIFY. TOP OF (N) FASCIA IS TO ALIGN WITH TOP OF (E) FASCIA.

B. +/- 9' - 6" FROM TOP OF (E) BUILDING SLAB TO CENTERLINE OF (E) HORIZONTAL RAIL OF THE (E) STEEL SASH ASSEMBLY AS SHOWN TO BOTTOM OF (N) FRAMING MEMBER.

C. +/-2' - 11-5/8" FROM TOP OF SLAB TO CENTERLINE OF (E) HORIZONTAL RAIL OF THE (E) STEEL SASH ASSEMBLY AS SHOWN TO THE TOP OF THE (N) ACCENT PLANT ON FRAMING.

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EXTERIOR ELEVATIONS

Job No.:

5599.2

Sheet No.:

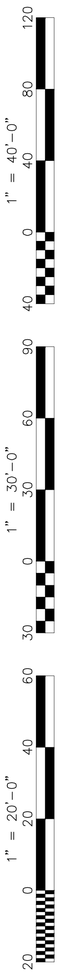
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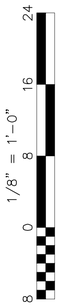
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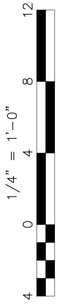
6/4/26

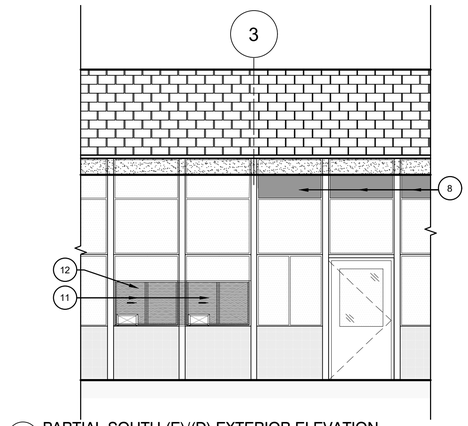
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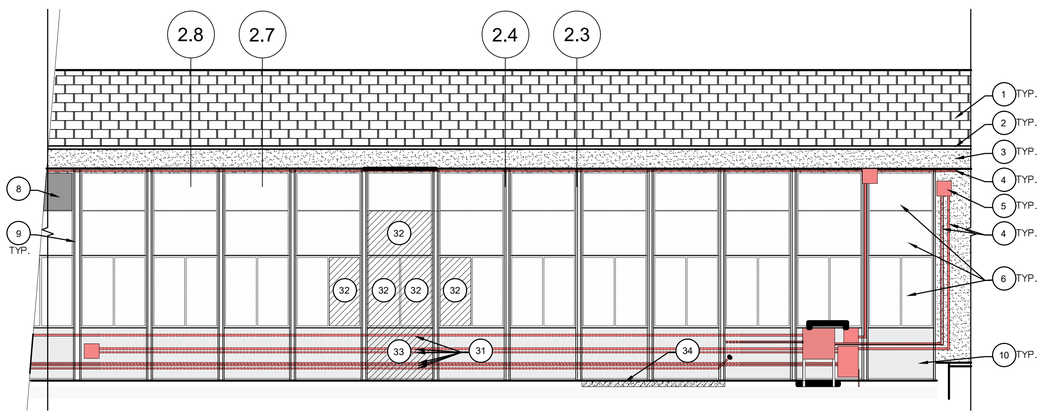






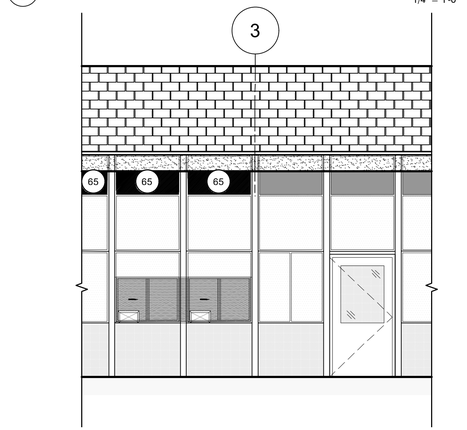
5 PARTIAL SOUTH (E)/(D) EXTERIOR ELEVATION

1/4" = 1'-0"



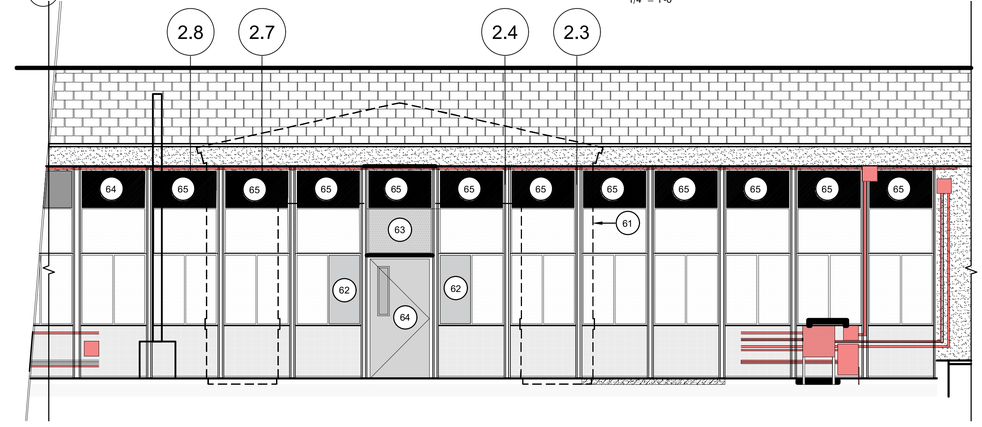
1 PARTIAL NORTH (E)/(D) EXTERIOR ELEVATION

1/4" = 1'-0"



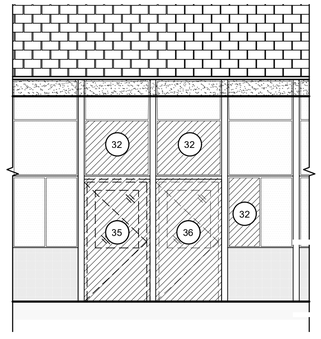
6 PARTIAL SOUTH (N) EXTERIOR ELEVATION

1/4" = 1'-0"



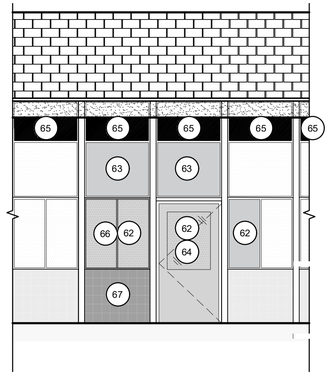
2 PARTIAL NORTH (N) EXTERIOR ELEVATION

1/4" = 1'-0"



3 PARTIAL SOUTH (E)/(D) EXTERIOR ELEVATION

1/4" = 1'-0"



4 PARTIAL SOUTH (N) EXTERIOR ELEVATION

1/4" = 1'-0"

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) COMPOSITION SHINGLE ROOF ASSEMBLY.
2. (E) G.I. SHEET METAL DRIP EDGE.
3. (E) PLASTER FASCIA & SOFFIT.
4. (E) METAL CONDUIT, SEE ELECTRICAL PLANS.
5. (E) G.I. SHEET METAL WALL MOUNTED BOXES, SEE ELECTRICAL PLANS.
6. (E) STEEL SASH WINDOW FRAME ASSEMBLY.
7. (E) GLAZING.
8. (E) WINDOW VOID WITH OPAQUE COVERING.
9. (E) 14 GA. MULLION COVER FASTENED TO 4X6 POST BEYOND WITH #10 x 2" R.H.W.S. @ 16" O.C.
10. (E) 1/4" "MIRAWALL" PANELS.
11. (E) HORIZONTAL WINDOW W/ FIXED WINDOW PANE OVER IT.
12. (E) STAINLESS STEEL EXPANDED METAL LATH W/ STAINLESS STEEL "U" EDGING.

31. (D) METAL CONDUIT, SEE ELECTRICAL PLANS.
32. (D) GLAZING STEEL SASH ASSEMBLY.
33. (D) MIRAWALL PANEL & STEEL SASH ASSEMBLY AS REQUIRED FOR (N) DOOR ASSEMBLY.
34. (D) CONCRETE FLAT WORK, SEE FLOOR PLANS.
35. (D) EXISTING DOOR ASSEMBLY & PREPARE OPENING FOR (N) STEEL SASH WINDOW ASSEMBLY.
36. (D) EXISTING DOOR ASSEMBLY & PREPARE OPENING FOR (N) DOOR ASSEMBLY.

61. (N) ENTRY ELEMENT, SEE ENTRY ELEMENT PLANS.
62. (N) SAFTEY GLAZING ASSEMBLY.
63. (N) WINDOW GLAZING ASSEMBLY.
64. (N) DOOR ASSEMBLY, SEE FLOOR PLAN & SCHEDULE
65. (N) WINDOW BLACK OUT COVERING ON INSIDE SIDE OF GLAZING.
66. (N) STEEL SASH WINDOW ASSEMBLY TO MATCH (E) ADJACENT WINDOW ASSEMBLIES.
67. (N) MIRAWALL TYPE PANEL & STEEL SASH ASSEMBLY TO MATCH ADJACENT PANELS.

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Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

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integrated designs
by SOMAM, Inc.

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EXTERIOR ELEVATIONS

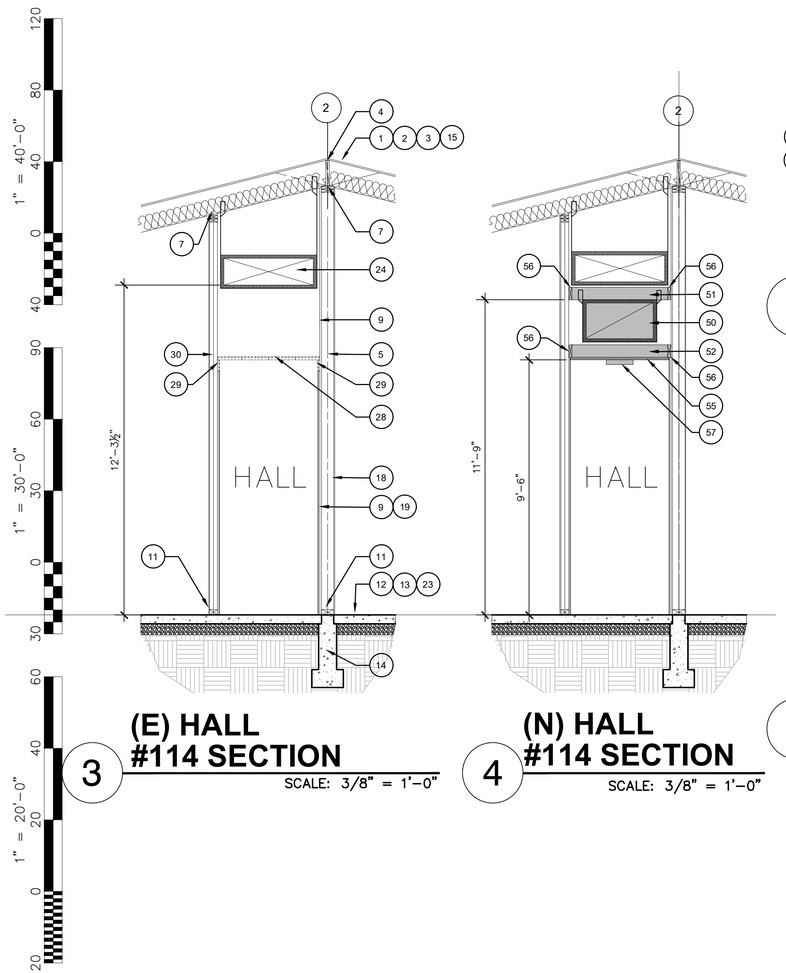
Job No.:

5599.2

Sheet No.:

A3.02

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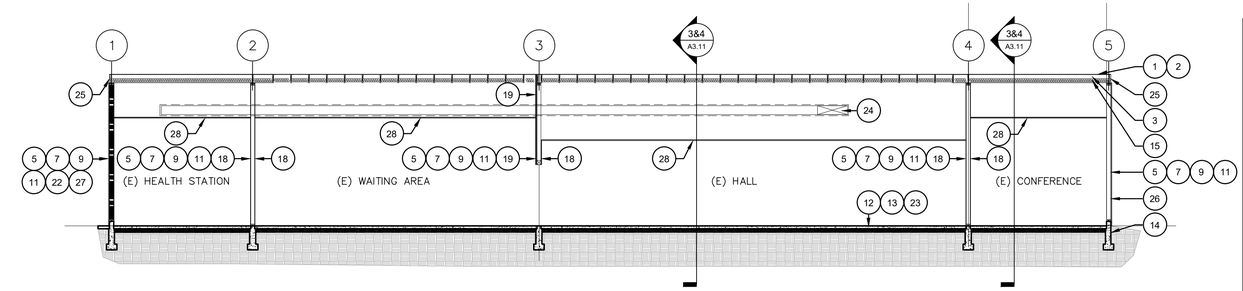


3 (E) HALL #114 SECTION

SCALE: 3/8" = 1'-0"

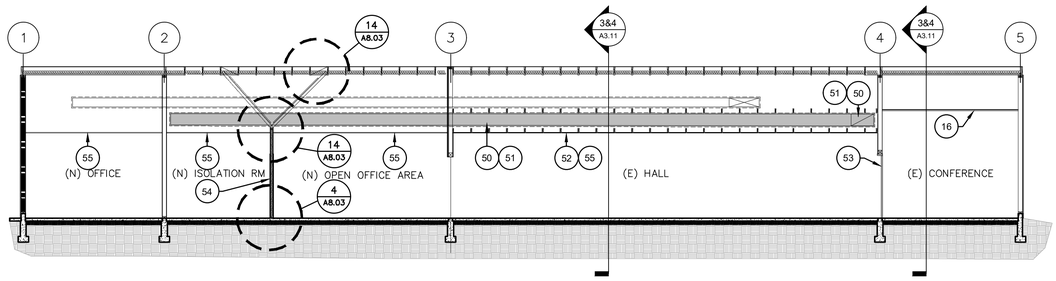
4 (N) HALL #114 SECTION

SCALE: 3/8" = 1'-0"



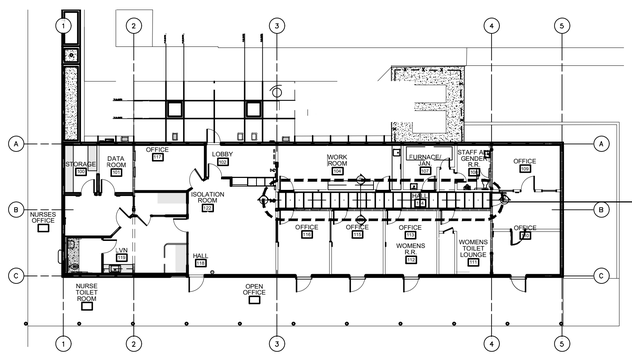
1 (E) GRIDLINE "B" BUILDING SECTION

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



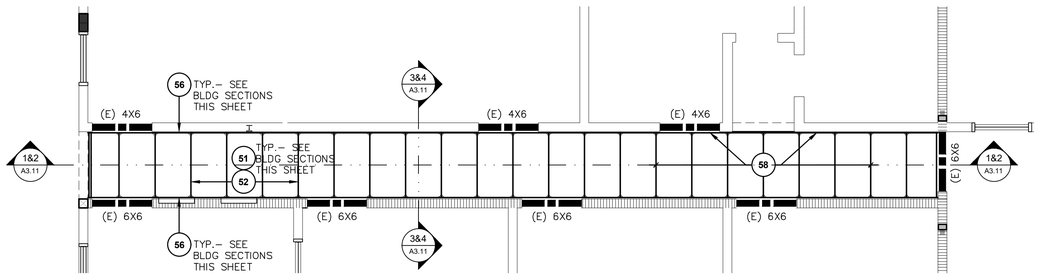
2 (N) GRIDLINE "B" BUILDING SECTION

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



5 HALL 114 CEILING LOCATION PLAN

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



6 HALL 114 CEILING FRAMING PLAN

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

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) COMPOSITION ROOFING ASSEMBLY.
2. (E) 5/8" PLYWOOD SHEATING.
3. (E) 2x12 ROOF RAFTERS @ 24" O.C.
4. (E) 2X12 SOLID BLKG.
5. (E) 2x6 STUDS @ 16" O.C.
6. (E) 4X6 POSTS @ 4'-0" O.C.
7. (E) TOP PLATE - DBL 2X.
8. (E) TOP PLATE - 2x6 OVER 4x6 DBL TOP PLATES.
9. (E) 1x6 DIAGONAL SHEATHING.
10. (E) 1/2" PLYWOOD SHEATHING.
11. (E) 3X SILL PLATE ON 3/4" DRY PACK.
12. (E) 4" THICK CONC. SLAB.
13. (E) 5" GRANULAR FILL.
14. (E) CONC. FOOTING.
15. (E) BATT INSULATION.
16. (E) SUSPENDED CEILING ASSEMBLY (RCP PLAN & FINISH SCHEDULE).
17. (E) WOOD TRIM.
18. (E) 3/8" PLYWOOD VENEER ASSEMBLY.
19. (E) 1/4" PLYWOOD O/ 5/8" GYPSUM BOARD (TAPED).
20. (E) 5/8" GYPSUM BOARD TAPED THIS WALL FROM CEILING TO ROOF SHEATHING.
21. (E) STEEL WINDOW SASH & PANEL ASSEMBLY.
22. (E) 1" VERMICULITE PLASTER ON THIS SIDE OF WALL FROM FLOOR TO ROOF SHEATHING.
23. (E) FLOORING (SEE FINISH SCHEDULE).
24. (E) MECHANICAL SUPPLY DUCT, SEE MECH. PLANS.
25. REMAINDER OF ROOF NOT SHOWN FOR CLARITY.
26. (E) PLASTER ASSEMBLY FINISH.
27. (E) FIRE RATED WALL, SEE CODE COMPLIANCE PLAN.
28. (D) EXISTING SUSPENDED CEILING ASSEMBLY.
29. (D) EXISTING WALL FINISH AS NECESSARY TO ACCOMMODATE (N) CEILING.
30. (E) 2X4 STUDS @ 16" O.C.

50. (N) MECHANICAL RETURN DUCT, SEE MECH. PLANS.
51. (N) 2X6 DF-L #2 CEILING JOISTS (FOR (N) RETURN SUPPLY DUCT ASSEMBLY SUPPORT) @ 24" O.C. WITH SIMPSON LUS26 HANGER EA. SIDE OF JOIST TO (N) LEDGER. SEE DETAIL 3/S1.02 FOR ADDITIONAL INFORMATION.
52. (N) 2X6 DF-L #2 CEILING JOISTS (FOR (N) CEILING) @ 24 " O.C. W/ SIMPSON LUS26 HANGERS EA. SIDE OF JOIST TO (N) LEDGER. SEE DETAIL 3/S1.02 FOR ADDITIONAL INFORMATION.
53. (N) DOOR & FRAME ASSEMBLY (SEE FLOOR PLAN & DOOR SCHEDULE).
54. (N) NON-BEARING WALL PARTITION (SEE FLOOR PLANS FOR MORE INFO.)
55. (N) CEILING ASSEMBLY (SEE REFLECTED CEILING PLAN).
56. (N) 2X6 DF-L#2 CONT. LEDGER W/ (2) #12 F.H.W.S. PER STUD W/ 1-3/4" MIN. EMBEDMENT INTO WOOD STUD. PRE-DRILL HOLES. MINIMUM LENGTH OF LEDGER SHALL BE NOT LESS THAN (2) STUDS WITH (2) SETS OF SCREWS TO EA. STUD, TYP. SEE DETAIL 3/S1.02 FOR ADDITIONAL INFORMATION.
57. (N) SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL PLANS).
58. (N) ONE PIECE 2X8 DF-L#2 x 12'-0" LONG LEDGER

NOTES

1. SEE MINIMUM NAILING SCHEDULE AND TYPICAL BEARING WALL ELEVATION ON SHEET S1.02.
2. SHORE WALL PRIOR TO CUTTING STUDS & INSTALLING (N) HEADER, SEE BRACING & SHORING NOTES S0.01.

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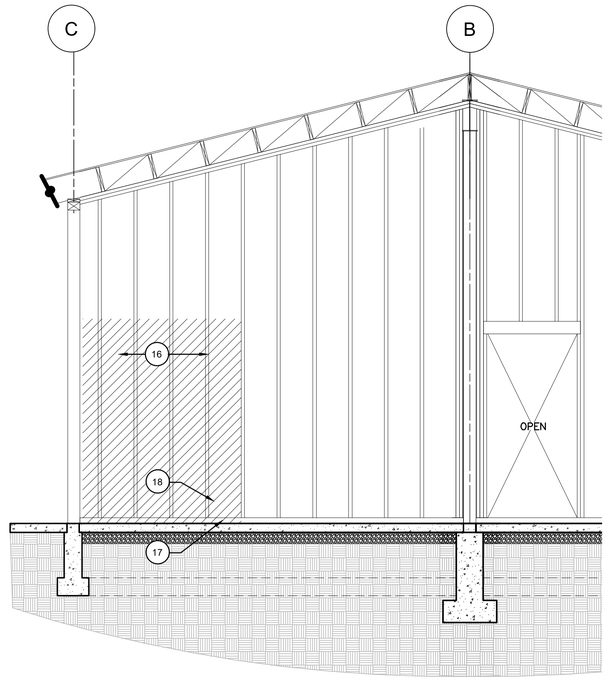
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SECTIONS

Job No.: **5599.2**

Sheet No.: **A3.11**

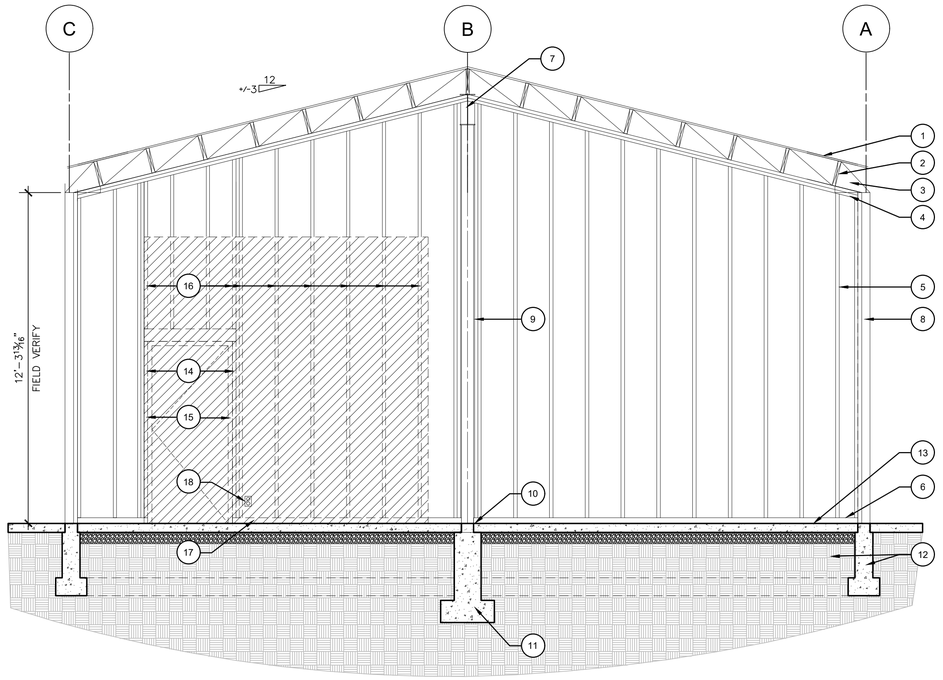
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3 EXISTING/DEMO WALL FRAMING ELEVATION

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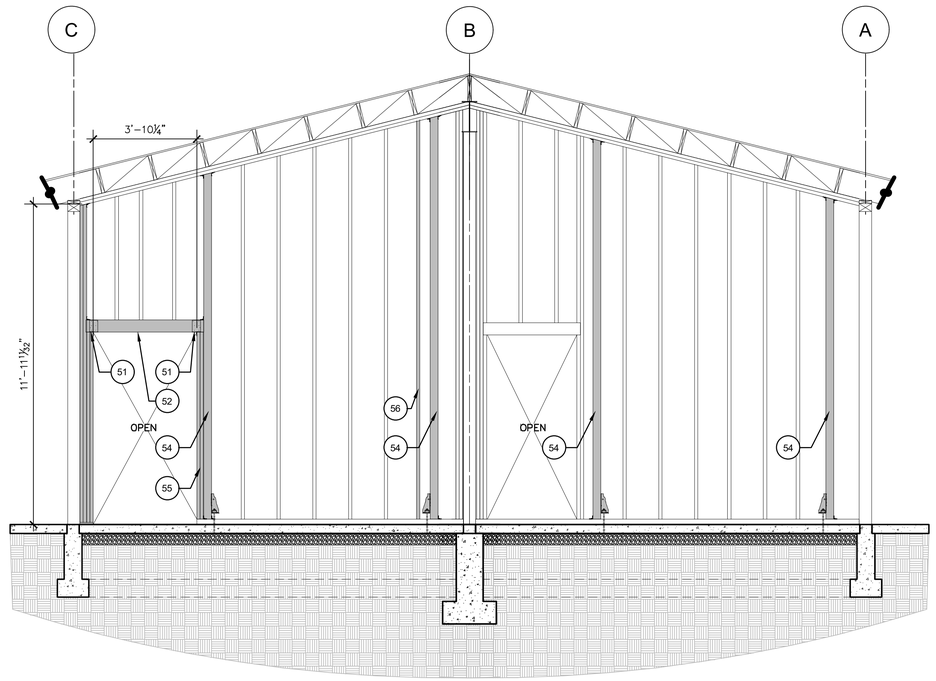
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1 GRIDLINE #2 EXISTING/DEMO WALL FRAMING ELEVATION

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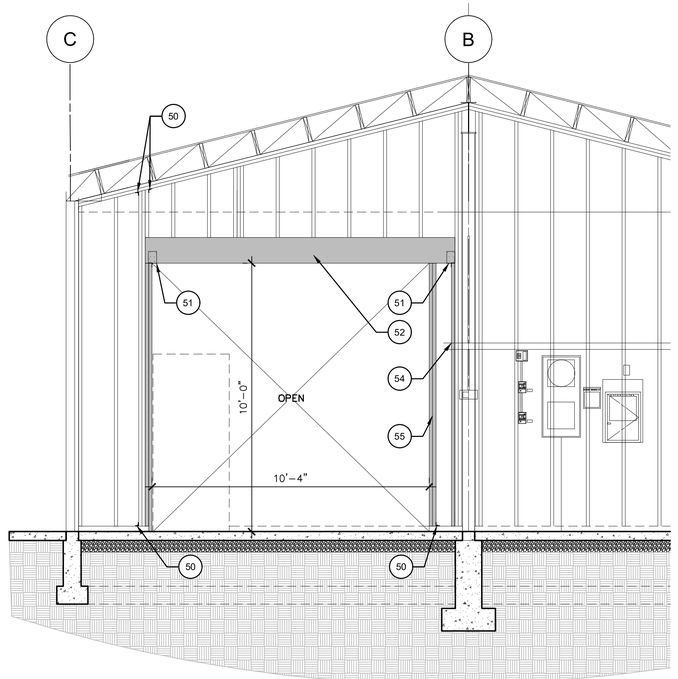
SCALE: 3/8" = 1'–0"



4 PROPOSED WALL FRAMING ELEVATION

ADMIN ALTERATIONS

SCALE: 3/8" = 1'–0"



2 GRIDLINE #2 PROP. WALL FRMG ELEV.

ADMIN ALTERATIONS

SCALE: 3/8" = 1'–0"

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) 5/8" PLYWOOD SHEATING.
2. (E) 2X12 ROOF RAFTERS @ 24" O.C.
3. (E) 2X12 SOLID BLOCKING.
4. (E) 2X6 DBL TOP PLATE
5. (E) 2X6 STUDS @ 16" O.C.
6. (E) 3X6 SILL PLATE SET ON 3/4" DRY PACK.
7. (E) W14x30 STEEL BEAM BOLTED TO POST VIA STEEL PLATES & 3/4" DIA. BOLTS.
8. (E) 4x6 POST.
9. (E) 6X6 POST.
10. (E) STEEL U-STRAP WITH PLATE EMBEDDED IN CONCRETE FOOTING & BOLTED TO POST W/ 3/4" BOLTS.
11. (E) CONC. PAD/PILASTER FOOTING.
12. (E) CONC. T-FOOTING.
13. (E) 4" CONC. SLAB WITH 6x6 - 10x10 WWR IN CENTER OF SLAB OVER 5" GRANULAR FILL O/ (E) COMPACTED SOIL.
14. (D) 2X TRIMMER (SHOWN DASHED).
15. (D) DOOR ASSEMBLY.
16. (D) STUD ASSEMBLY (SHOWN DASHED).
17. (D) SILL PLATE ASSEMBLY TO ACCOMMODATE NEW OPENING.
18. (D) ELECTRICAL, SEE ELECTRICAL DWGS FOR MORE INFO.

50. (N) SIMPSON A35 FRAMING CLIP.
51. (N) SIMPSON HH6 CLIP.
52. (N) 6X10 DF-L#1 HEADER.
53. (N) 2X6 DF-L#2 TRIMMERS.
54. (N) POST & HOLDOWN PER STRUCTURAL DWGS, SHEET SAAS2.0 & DETAIL A/SAAS2.0.
55. (N) DBL 2X6 STUDS STITCHED NAILED TOGETHER WITH 16d COMMONS @ 12" O.C., CLINCH NAILS, TYP.
56. (N) FULL HEIGHT TO REPLACE IN KIND, DUE TO ACCESS FOR INSTALLATION FOR THEN (N) FULL HEIGHT POSTS FOR THE HOLDOWNS, TYP.

NOTES

1. SEE MINIMUM NAILING SCHEDULE AND TYPICAL BEARING WALL ELEVATION ON SHEET S1.02.
2. SHORE WALL PRIOR TO CUTTING STUDS & INSTALLING (N) HEADER, SEE BRACING & SHORING NOTES S0.01.

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Sheet Title:

WALL FRAMING

Job No.: **5599.2**

Sheet No.: **A3.12**

Release: Issue Date

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KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) WOOD TRIM.
2. (E) 1/4" PLYWOOD VENEER ASSEMBLY.
3. NOT USED.
4. (D) SUSPENDED CEILING ASSEMBLY (SEE RCP PLAN & FINISH SCHEDULE).
5. (E) 1/4" PLYWOOD VENEER OVER 5/8" GYPSUM BOARD (TAPED) ASSEMBLY.
6. (E) 5/8" GYPSUM BOARD TAPED THIS WALL FROM CEILING TO ROOF SHEATHING.
7. NOT USED.
10. (E) STEEL WINDOW SASH & PANEL ASSEMBLY.
11. NOT USED.
12. (E) WINDOW WITH WOOD FRAME.
13. (E) LIGHT SWITCH, SEE ELECTRICAL.
14. (N) ELECTRICAL OUTLET, SEE ELECTRICAL.
15. (N) ELECTRICAL DATA PORT, SEE ELECTRICAL.
16. (E) THERMOSTAT, SEE ELECTRICAL.
17. (E) ELECTRICAL RACEWAY, SEE ELECTRICAL.
18. NOT USED.
19. (E) ELECTRICAL FIXTURE, SEE ELECTRICAL.
20. (E) WALL MOUNTED CAMERA, SEE ELECTRICAL.
21. (E) WIRELESS ACCESS DEVICE, SEE ELECTRICAL.
22. (E) SPEAKER, SEE ELECTRICAL.
23. (E) WALL MOUNTED PHONES, SEE ELECTRICAL.
24. (E) ELECTRICAL PANELS, SEE ELECTRICAL.
25. NOT USED.
26. NOT USED.
27. NOT USED.

41. (D) EXISTING WALL BASE.
42. (D) EXISTING WOOD POCKET DOOR AND ASSEMBLY.
43. (D) EXISTING FLAG & FLAG HOLDER.
44. (D) EXISTING TACKBOARD ASSEMBLY.
45. (D) EXISTING CASEWORK ASSEMBLY.
46. (D) EXISTING BENCH ASSEMBLY.
47. (D) EXISTING PAMPHLET ASSEMBLY.
48. (D) EXISTING SIGNAGE.
49. (D) EXISTING WINDOW ASSEMBLY.
50. (D) PORTION OF EXISTING STEEL SASH ASSEMBLY TO ACCOMMODATE (N) DOOR.
51. (D) EXISTING DOOR ASSEMBLY.

71. (N) WALL ASSEMBLY TO MATCH RENOVATED ADJACENT SURFACE.
72. (N) WALL BASE, SEE FINISH SCHEDULE.
73. (N) DOOR & FRAME ASSEMBLY, SEE FLOOR PLANS.
74. (N) WINDOW ASSEMBLY.
75. (N) MONITOR ASSEMBLY.
76. (N) STEEL SASH GLAZING ASSEMBLY.
77. (N) STEEL SASH SAFETY GLAZING ASSEMBLY.
78. (N) SIGNAGE, SEE FLOOR PLANS.
79. (N) CASEWORK.
80. (N) PUSH BUTTON ACTIVATOR & 20'-0" OF CABLE FOR FUTURE MAGNETIC LOCK FOR FUTURE GATE. STORE EXTRA WIRE IN THE ATTIC DIRECTLY ADJACENT TO BUTTON, SEE ELECTRICAL.
81. (N) SUSPENDED CEILING, SEE REFLECTED CEILING PLAN.
82. AREA ABOVE (N) SUSPENDED CEILING.
83. (N) WALL FINISH, SEE FINISH SCHEDULE.
84. (N) TACK BOARD VENEER, SEE FINISH SCHEDULE.
85. (N) WATER RESISTANT WAINSCOT, SEE FINISH SCHEDULE.
86. (E) GLAZING WITH (N) BLACKOUT FILM.
87. (N) FINISH IS TO ALIGN WITH CENTERLINE OF (E) STEEL SASH FRAME.
88. ALIGN (N) FINISH WITH (E) FINISH.
89. (N) PLUMBING FIXTURE ASSEMBLY, SEE PLUMBING PLANS.
90. (N) UNDER COUNTER REFRIGERATOR.
91. (N) MODULAR DESK BY OTHERS.

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No. C 29025
REN. 5-31-27
STATE OF CALIFORNIA

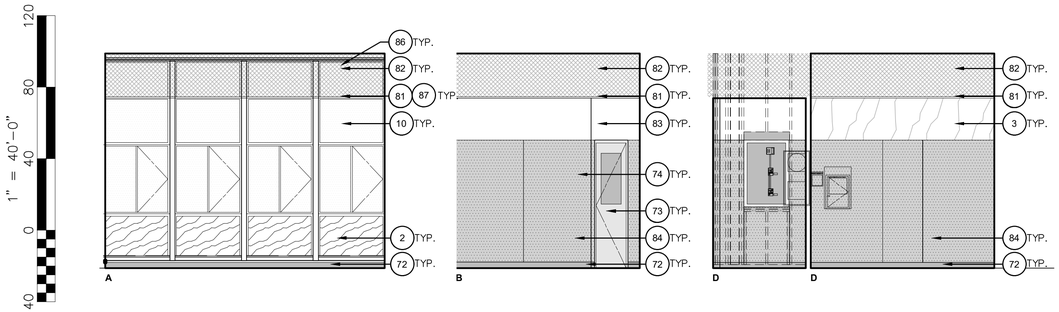
Sheet Title:

INTERIOR ELEVATIONS

Job No.: **5599.2**

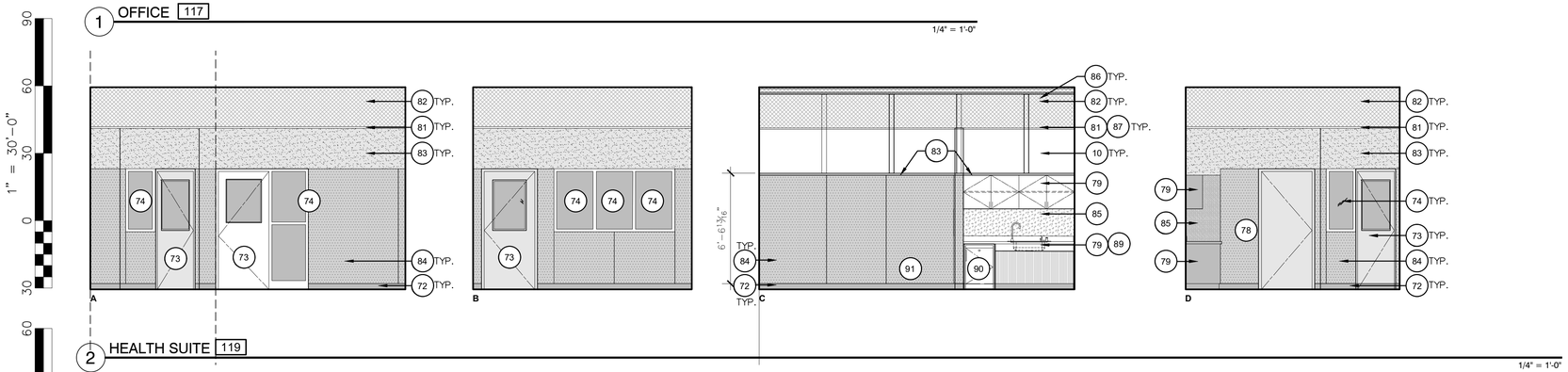
Sheet No.: **A5.01**

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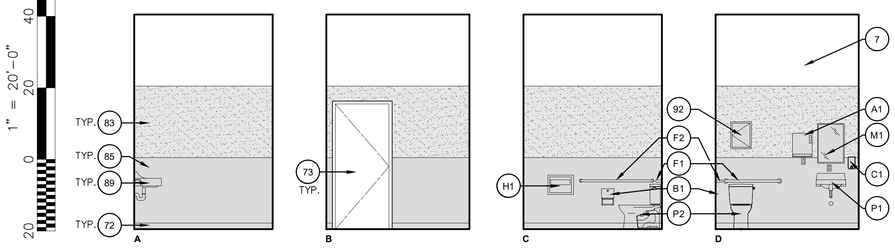
1 OFFICE 117

1/4" = 1'-0"



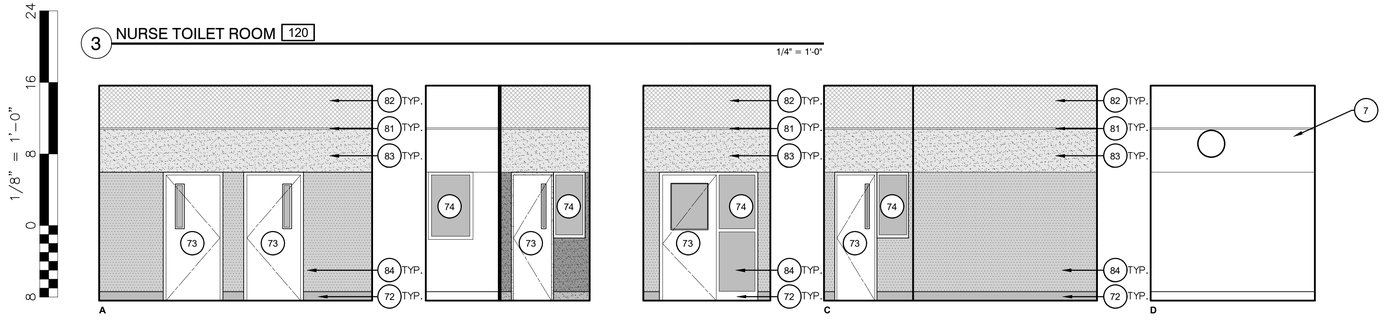
2 HEALTH SUITE 119

1/4" = 1'-0"



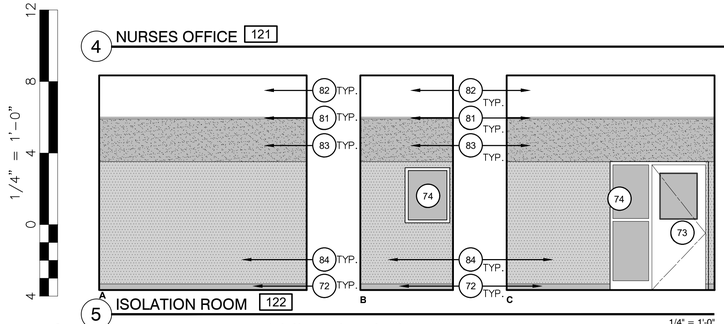
3 NURSE TOILET ROOM 120

1/4" = 1'-0"



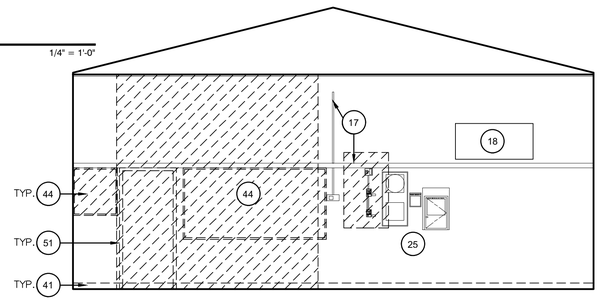
4 NURSES OFFICE 121

1/4" = 1'-0"



5 ISOLATION ROOM 122

1/4" = 1'-0"



6 WEST ELEVATION AT GRIDLINE 2

1/4" = 1'-0"

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

1. (E) WOOD TRIM.
2. (E) 1/4" "MIRAWALL" OR EQ. PANELS.
3. (E) 3/8" PLYWOOD VENEER ASSEMBLY.
4. (D) SUSPENDED CEILING ASSEMBLY (SEE RCP PLAN & FINISH SCHEDULE).
5. (E) 1/4" PLYWOOD VENEER OVER 5/8" GYPSUM BOARD (TAPED) ASSEMBLY.
6. (E) 5/8" GYPSUM BOARD TAPED THIS WALL FROM CEILING TO ROOF SHEATHING.
7. (E) FIRE RATED WALL, SEE CODE COMPLIANCE PLAN.
8. (E) LOW WALL.
9. (E) FLOORING (SEE FINISH SCHEDULE).
10. (E) STEEL WINDOW SASH & PANEL ASSEMBLY.
11. (E) WOOD DOOR WITH WOOD FRAME.
12. (E) WINDOW WITH WOOD FRAME.
13. (E) LIGHT SWITCH, SEE ELECTRICAL.
14. (E) ELECTRICAL OUTLET, SEE ELECTRICAL.
15. (E) ELECTRICAL DATA PORT, SEE ELECTRICAL.
16. (E) THERMOSTAT, SEE ELECTRICAL.
17. (E) ELECTRICAL RACEWAY, SEE ELECTRICAL.
18. (E) WALL MOUNTED TV/MONITOR, SEE ELECTRICAL.
19. (E) ELECTRICAL FIXTURE, SEE ELECTRICAL.
20. (E) WALL MOUNTED CAMERA, SEE ELECTRICAL.
21. (E) WIRELESS ACCESS DEVICE, SEE ELECTRICAL.
22. (E) SPEAKER, SEE ELECTRICAL.
23. (E) WALL MOUNTED PHONES, SEE ELECTRICAL.
24. (E) ELECTRICAL PANELS, SEE ELECTRICAL.
25. (E) FIRE ALARM APPARATUS, SEE FIRE ALARM DRAWINGS.

41. (D) EXISTING WALL BASE.
42. (D) EXISTING WOOD POCKET DOOR AND ASSEMBLY.
43. (D) EXISTING FLAG & FLAG HOLDER.
44. (D) EXISTING TACKBOARD ASSEMBLY.
45. (D) EXISTING CASEWORK ASSEMBLY.
46. (D) EXISTING BENCH ASSEMBLY.
47. (D) EXISTING PAMPHLET ASSEMBLY.
48. (D) EXISTING SIGNAGE.
49. (D) EXISTING WINDOW ASSEMBLY.
50. (D) PORTION OF EXISTING STEEL SASH ASSEMBLY TO ACCOMMODATE (N) DOOR.
51. (D) EXISTING DOOR ASSEMBLY.

71. (N) WALL ASSEMBLY TO MATCH RENOVATED ADJACENT SURFACE.
72. (N) WALL BASE, SEE FINISH SCHEDULE.
73. (N) DOOR & FRAME ASSEMBLY, SEE FLOOR PLANS.
74. (N) WINDOW ASSEMBLY.
75. (N) MONITOR ASSEMBLY.
76. (N) STEEL SASH GLAZING ASSEMBLY.
77. (N) STEEL SASH SAFETY GLAZING ASSEMBLY.
78. (N) SIGNAGE, SEE FLOOR PLANS.
79. (N) CASEWORK.
80. (N) PUSH BUTTON ACTIVATOR & 20'-0" OF CABLE FOR FUTURE MAGNETIC LOCK FOR FUTURE GATE. STORE EXTRA WIRE IN THE ATTIC DIRECTLY ADJACENT TO BUTTON, SEE ELECTRICAL.
81. (N) SUSPENDED CEILING, SEE REFLECTED CEILING PLAN.
82. AREA ABOVE (N) SUSPENDED CEILING.
83. (N) WALL FINISH, SEE FINISH SCHEDULE.
84. (N) TACK BOARD VENEER, SEE FINISH SCHEDULE.
85. (N) WATER RESISTANT WAINSCOT, SEE FINISH SCHEDULE.
86. (E) GLAZING WITH (N) BLACKOUT FILM.
87. (N) FINISH IS TO ALIGN WITH CENTERLINE OF (E) STEEL SASH FRAME.
88. ALIGN (N) FINISH WITH (E) FINISH.
89. (N) PLUMBING FIXTURE ASSEMBLY, SEE PLUMBING PLANS.
90. (N) UNDER COUNTER REFRIGERATOR.
91. (N) MODULAR DESK BY OTHERS.
92. (N) S.S. ACCESS PANEL.
93. (N) WAINSCOT SEE FINISH SCHEDULE.
94. (N) PLUMBING CLEANOUT COVER, SEE PLUMBING PLANS.

FIXTURE KEY NOTES

NOTE:
SEE THE SPECIFICATION FOR SPECIFIC FIXTURE INFORMATION.

- A1 PAPER TOWEL DISPENSER.
- B1 TOILET TISSUE DISPENSER.
- C1 SOAP DISPENSER.
- F1 GRAB BAR: 36" MIN. LONG - SEE DETAIL 11/A8.04 FOR WALL ANCHORAGE.
- F2 GRAB BAR: 42" MIN. LONG - SEE DETAIL 11/A8.04 FOR WALL ANCHORAGE.
- H1 TOILET SET COVER.
- M1 WALL MOUNTED MIRROR.
- P1 LAVATORY PER PLUMBING PLANS.
- P2 WATER CLOSET PER PLUMBING PLAN (LEVER TO BE ON ACCESS SIDE).

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DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

Project Address:

COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

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Sheet Title:

INTERIOR ELEVATIONS

Job No.: **5599.2**

Sheet No.: **A5.02**

Release: Issue Date: 6/4/26

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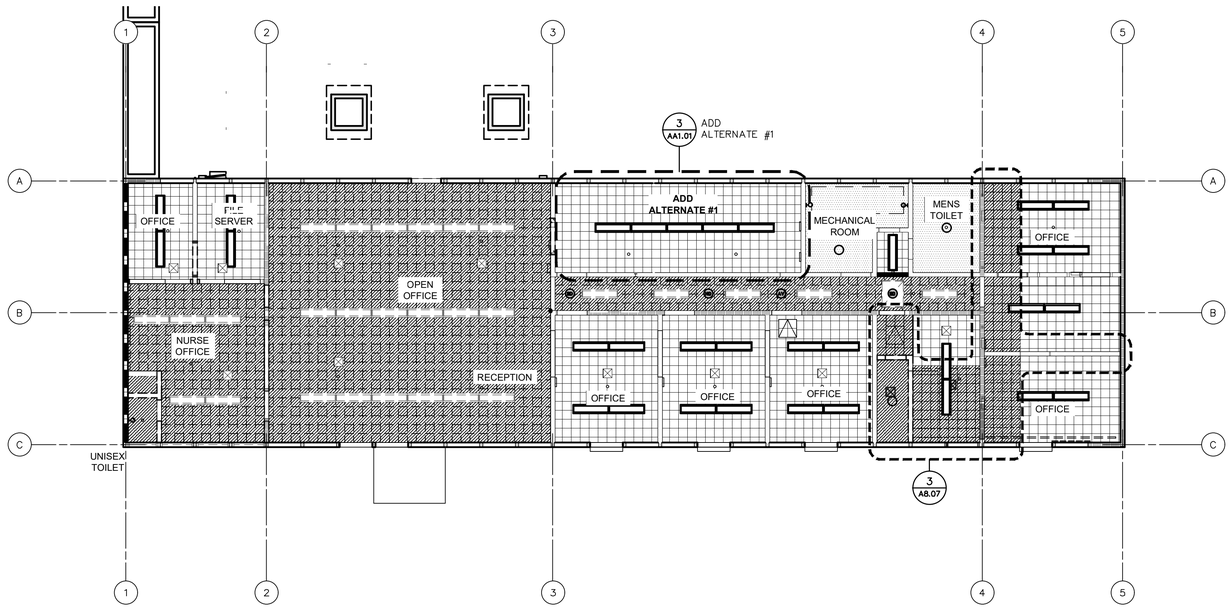
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1" = 30'-0" 90 60 30 0

1" = 20'-0" 60 40 20 0

1/8" = 1'-0" 24 16 8 0

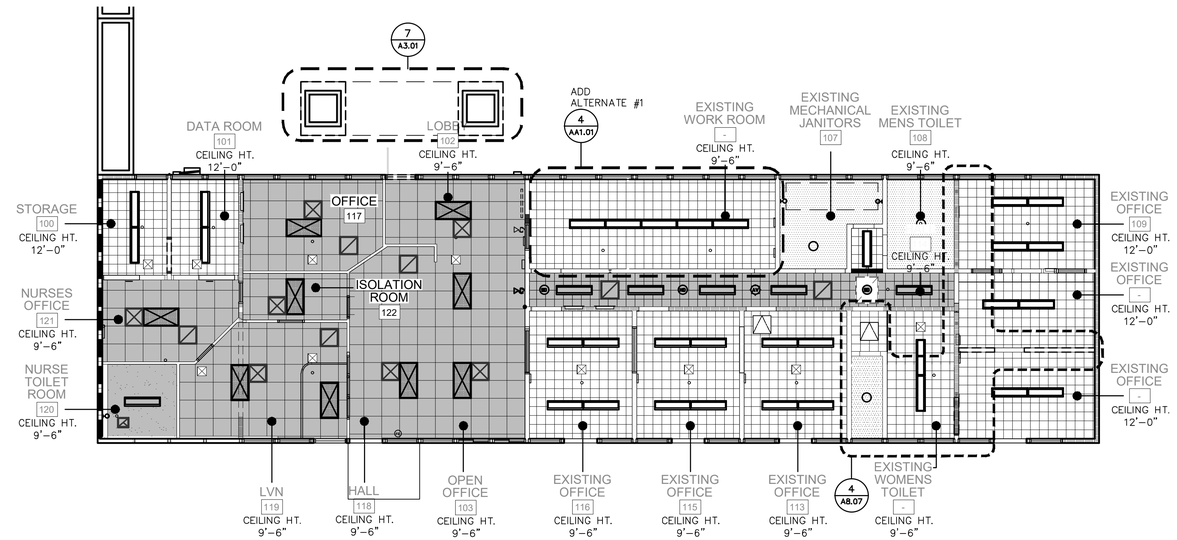
1/4" = 1'-0" 12 8 4 0



REFLECTED CEILING PLAN - DEMOLITION

EXTERIOR CEILING OMITTED FOR CLARITY

SCALE: 1/8" = 1'



REFLECTED CEILING PLAN

EXTERIOR CEILING OMITTED FOR CLARITY

SCALE: 1/8" = 1'

GENERAL NOTES

1. SEE SHEET A8.02 FOR GENERAL DETAILS & FRAMING NOTES.
2. SEE SHEET A8.05 FOR CEILING SYSTEM GENERAL DETAILS & NOTES.
3. SEE SHEET A8.06 FOR CEILING SUPPORT ANCHORAGE DETAILS & NOTES.

LEGEND

- (E) 12x12 SUSPENDED CRC ASSEMBLY
- (D) 12x12 SUSPENDED CRC ASSEMBLY
- (N) 12x12 ACOUSTIC GLUE ON CEILING TILE ASSEMBLY, SEE FINISH SCHEDULE & SHEET A3.11 FOR MORE INFO.
- (N) 2X4 (LOOKS LIKE 2X2) SUSPENDED ATC ASSEMBLY, SEE FINISH SCHEDULE & SHEETS A8.05 & A8.06 FOR MORE INFO.
- (E) GYPSUM CEILING BOARD ASSEMBLY
- (D) GYPSUM CEILING BOARD ASSEMBLY
- (N) GYPSUM CEILING BOARD ASSEMBLY
- (E) PLASTER CEILING ASSEMBLY
- (D) PLASTER CEILING ASSEMBLY
- (N) CEILING TILE WHERE (E) WALL IS REMOVED
- (E) 1x4 LIGHT FIXTURE
- (E) 1x4 LIGHT FIXTURE TO BE REMOVED
- (N) 1x4 LIGHT FIXTURE
- (E) WALL MOUNTED LIGHT FIXTURE
- (E) MECHANICAL SUPPLY GRILLE (SEE MECHANICAL DRAWINGS)
- (E) HEAT SENSOR
- (N) WALL PARTITION – SEE SHEET A2.01 (FLOOR PLAN LEGEND)

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REFLECTED CEILING PLAN

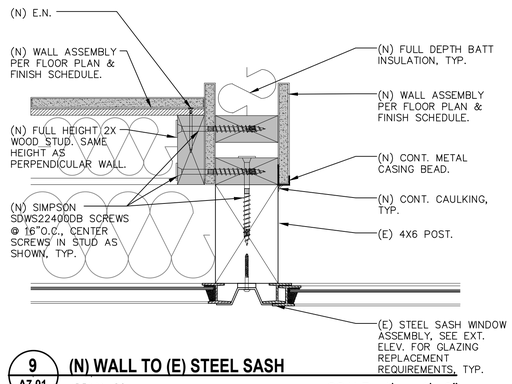
Job No.: **5599.2**

Sheet No.: **A6.01**

Release: Issue Date

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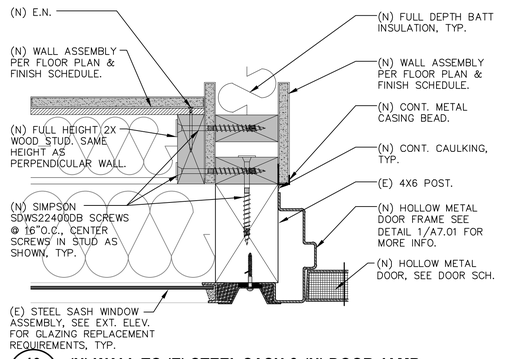
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9 / A7.01 — (N) WALL TO (E) STEEL SASH

ADR141–20

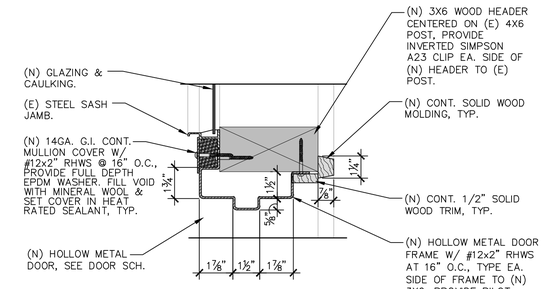
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10 / A7.01 — (N) WALL TO (E) STEEL SASH & (N) DOOR JAMB

ADR141–21

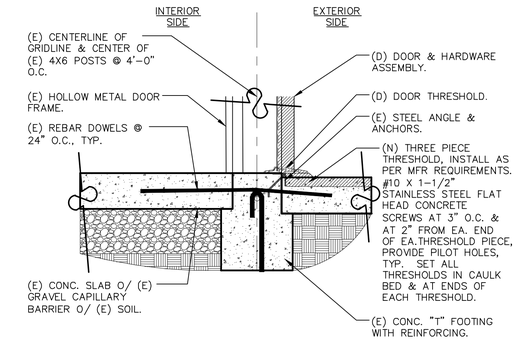
SCALE: 1' = 1'–0"



1 / A7.01 — (N) EXT. H.M. DOOR HEAD @ (E) STEEL SASH WINDOWS

ADG130–05

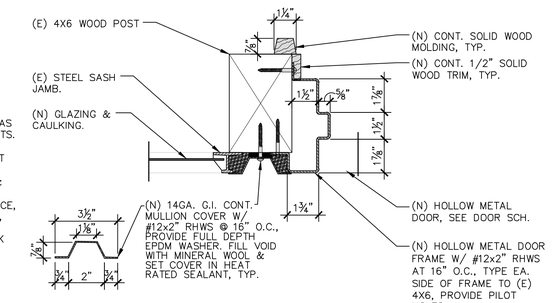
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6 / A7.01 — DETAIL TITLE

ADS110–03

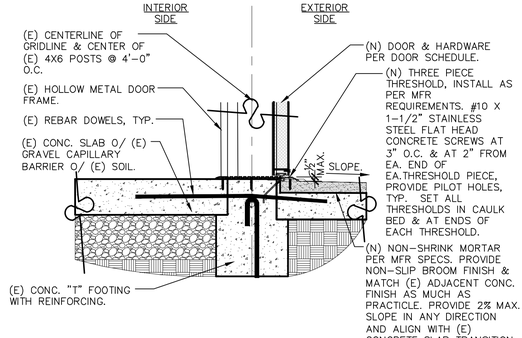
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2 / A7.01 — (N) DOOR HOLLOW METAL DOOR JAMB TO (E) STL SASH

FILENAME

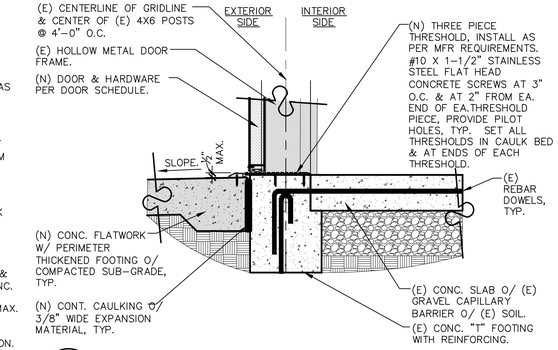
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7 / A7.01 — DETAIL TITLE

FILENAME

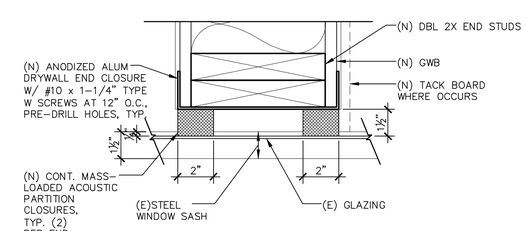
SCALE: 1' = 1'–0"



3 / A7.01 — DETAIL TITLE

ADS110–06

SCALE: 1' = 1'–0"



8 / A7.01 — (N) PARTITION AT WINDOW

ADG130–13

SCALE: 1' = 1'–0"

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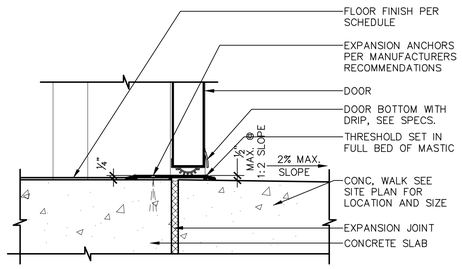
Sheet Title:

EXTERIOR DETAILS

Job No.: **5599.2**

Sheet No.: **A7.01**

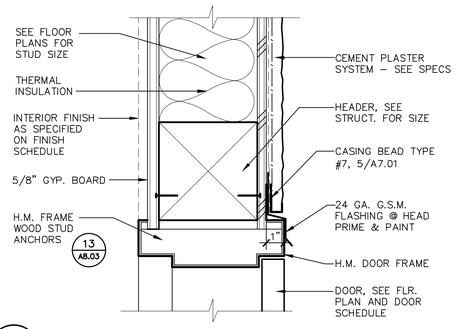
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13 A8.01 EXTERIOR DOOR THRESHOLD

ADD130-01

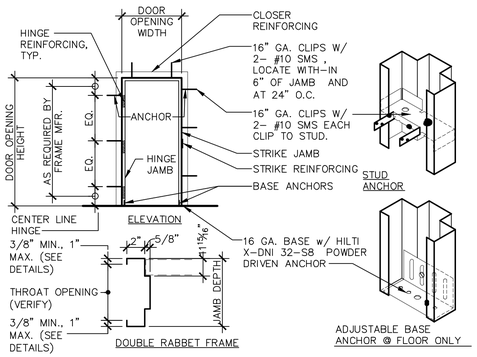
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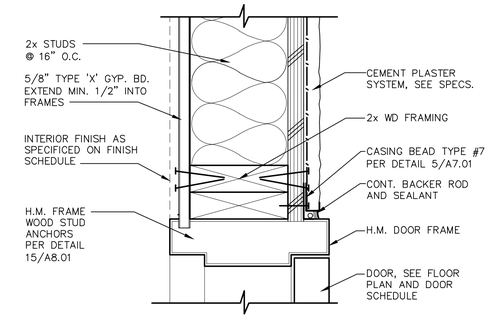


9 A8.01 DOOR HEAD

ADD141-01

SCALE: 1' = 1'-0"





10 A8.01 EXTERIOR DOOR JAMB

ADD141-06

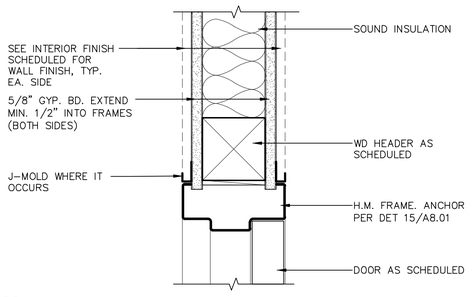
SCALE: 1' = 1'-0"

JAMB ANCHOR QUANTITIES

(2) PER JAMB FOR HEIGHTS > 3'-6" THRU 5'-0" AND (1) FLOOR ANCHOR.
(3) PER JAMB FOR HEIGHTS > 5'-0" THRU 7'-2" AND (1) FLOOR ANCHOR.
(4) PER JAMB FOR HEIGHTS > 7'-2" THRU 7'-6" AND (1) FLOOR ANCHOR.
(5) PER JAMB FOR HEIGHTS > 7'-6" THRU 10'-0" AND (1) FLOOR ANCHOR.

NOTES

(1) EACH ANCHOR SHALL BE IMMEDIATELY ABOVE OR BELOW THE HINGE JAMB & DIRECTLY OPPOSITE ON THE STRIKE JAMB AS SHOWN.
(2) ADDITIONAL JAMB ANCHOR FOR EACH ADDITIONAL 24" IN HEIGHT OR FRACTION THEROF.
(3) ADDITIONAL JAMB ANCHOR IN LIEU OF FLOOR ANCHOR FOR EXISTING STUDS AND/OR WALLS.
(4) PROVIDE (2) ANCHORS AT HEAD OF FRAME FOR PAIRS OF DOORS EQUALLY SPACE ANCHORS. ALLOW FOR VERTICAL DEFLECTION.
(5) EACH ANCHOR IS TO BE SCREWED TO JAMB STUD(S) WITH A MINIMUM OF (2) #10 S.M.S. FOR CFS #10x3" TRUSS HEAD WOOD SCREW.

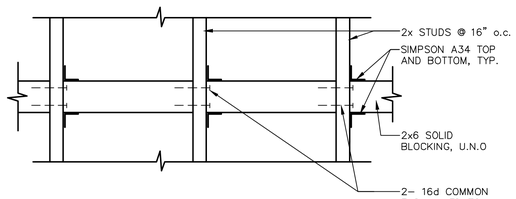


11 A8.01 INTERIOR H.M. FRAME DOOR HEAD

ADD245-02

SCALE: 1' = 1'-0"

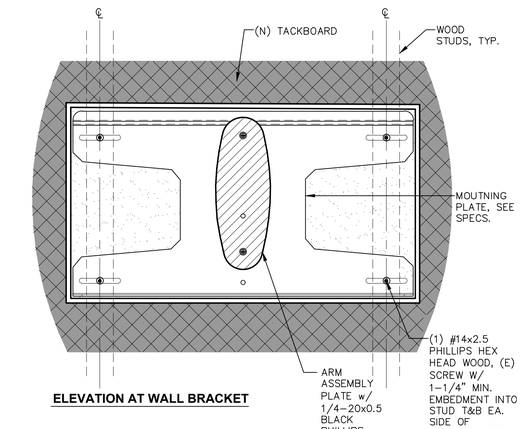
WHERE BLOCKING IS REQUIRED. REMOVE EXISTING FINISHES AS REQUIRED. REPLACE FINISHES TO MATCH EXISTING



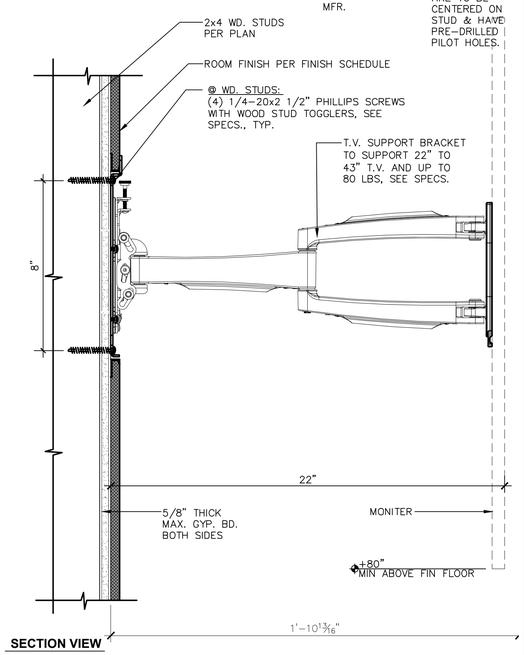
7 A8.01 TYPICAL BACKING @ WOOD STUDS

ADB240-01

SCALE: 1' = 1'-0"



ELEVATION AT WALL BRACKET

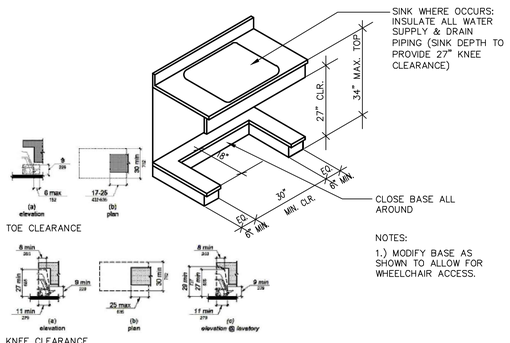


SECTION VIEW

3 A8.01 FLAT PANEL T.V. SUPPORT

ADM234-03

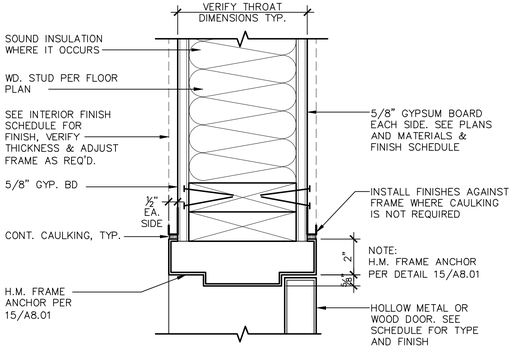
SCALE: 1' = 1'-0"



16 A8.01 ACCESSIBLE STATION OR SINK COUNTERS

ADI200-20

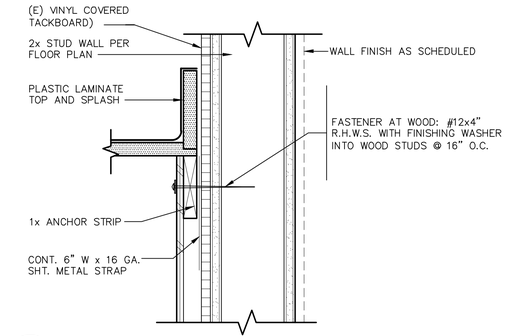
SCALE: 1' = 1'-0"



12 A8.01 INTERIOR HOLLOW METAL DOOR JAMB

ADD230-04

SCALE: 1' = 1'-0"



4 A8.01 BASE CABINET TOP ANCHORAGE

ADI244-05

SCALE: 1' = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
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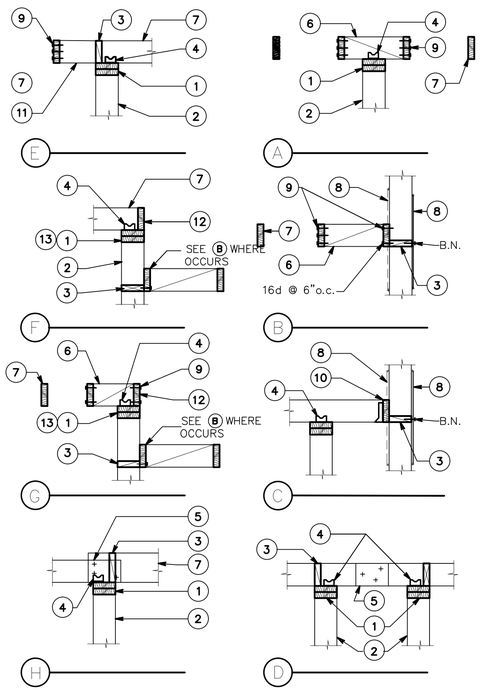
Sheet Title:
INTERIOR DETAILS

Job No.:
5599.2

Sheet No.:
A8.01

Release: Issue Date

G:\2023frs\23-5599.2 Cooper Middle School\Sheets SCOTT DEWEY 6/4/26



KEYNOTES:

1. (2)–2x TOP >
2. 2x STUDS @ 16" o.c., SEE PLANS FOR SIZE.
3. 2x FULL DEPTH BLOCK
4. SIMPSON A34 ONE SIDE
5. LAP JOIST 8" MIN. AND FACE NAIL WITH (3)–16d
6. 2x JOIST DEPTH BLOCK @ 24" o.c.. MAX.
7. 2x JOIST–SEE PLAN FOR SIZE AND SPACING
8. PLYWD. SHEATHING WHERE OCCURS, RUN BEHIND LEDGERS.
9. (2)–16d @ 3" o.c., TOENAIL @ LEDGER. SEE 10/A7.01
10. REFER TO 13/S1.04
11. EXTEND JOIST TO PERPENDICULAR JOIST.
12. 2x RIM JOIST
13. NO SLICES IN > BETWEEN CROSS WALLS U.N.O.

15 / A8.02 CEILING FRAMING AT STUD WALLS
DSM12 NO SCALE

CONCRETE EPOXIED REBAR & BOLT NOTES

1. EPOXY SHALL BE SIMPSON SET 3G ADHESIVE AS MANUFACTURED BY SIMPSON STRONG–TIE COMPANY, INC., 4637 CHABOT DRIVE, SUITE 200, PLEASANTON, CALIFORNIA, 94588 INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR–4057.
2. EMBEDMENT DEPTHS SHALL BE AS FOLLOWS:

REBAR SIZE	BOLT SIZE	MINIMUM EMBEDMENT*	TENSION TEST LOADS (LBS.)
# 3	3/8"	2 3/8"	4,525
# 4	1/2"	2 3/4"	8,235
# 5	5/8"	3 1/8"	13,110
# 6	3/4"	3 1/2"	19,370
# 7	7/8"	3 3/4"	26,795
# 8	1"	4"	35,150

3. ALL EPOXIED BOLTS AND/OR REBAR SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION AGENCY AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE I.C.C. REPORT ICC–ESR 4057 TO THE TENSION TEST VALUES STATED IN THE TABLE ABOVE. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH DIRECT PULL WITH A HYDRAULIC JACK, TORQUE NOT ALLOWED
4. WHEN INSTALLING EPOXIED BOLTS AND/OR REBAR, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED BOLTS AND/OR REBAR.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED MAY BE EPOXIED WITH SPECIAL INSPECTION IN ACCORDANCE WITH FINDINGS ITEM NO. 4.5 IN THE I.C.C. REPORT. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE IN ACCORDANCE WITH THE I.C.C. REPORT PRIOR TO BEING INSTALLED.

* – SEE PLANS AND DETAILS FOR MINIMUM EMBEDMENT FOR HOLDOWN ANCHOR BOLTS.

6. POST INSTALLED ANCHORS MUST BE COMPLIANT w/ 1 OF THE FOLLOWING & HAVE CURRENT ICC–ESR
   1. ACI 318–19
   2. ICC–AC 193
   3. ICC–AC 308

   OTHERWISE R_F =1.5

CONCRETE EXPANSION BOLT NOTES:

1. EXPANSION BOLTS SHALL BE HILTI KWIK BOLT TZ2 ANCHOR AS MANUFACTURED BY HILTI INC., 5400 SOUTH 122nd EAST AVENUE, TULSA, OKLAHOMA 74146. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT NO. ICC ESR–4266.
2. EMBEDMENT DEPTHS SHALL BE AS FOLLOWS:

DIAMETER	EMBEDMENT
3/8"	2 1/2"
1/2"	3 1/4"
5/8"	4"
3/4"	4 3/4"

3. EXPANSION BOLTS SHALL BE TORQUE TESTED BY AN APPROVED TESTING AND INSPECTION AGENCY TO THE TORQUE VALUE VALUE LISTED ABOVE. TEST ALL EXPANSION BOLTS USED FOR STRUCTURAL APPLICATIONS. WHEN EXPANSION BOLTS ARE USED FOR NON–STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE 50 PERCENT OR ALTERNATE BOLTS IN A GROUP SHALL BE TENSION TESTED. WHEN EXPANSION BOLTS ARE USED FOR SILL PLATE BOLTING, 10 PERCENT OF THE EXPANSION BOLTS SHALL BE TENSION TESTED.

   THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TORQUE IN THE ANCHOR, SUCH AS, A TORQUE WRENCH CALIBRATED FOR THE USE WITH THE SPECIFIC ANCHOR, CALIBRATED SPRING–LOADING DEVICES, ETC.

   A. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF EXPANSION ANCHORS:

      TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      WEDGE OR SLEEVE TYPE: ONE–HALF (½) TURN OF THE NUT
      ONE–QUARTER (¼) TURN OF THE NUT FOR ⅜" SLEEVE ANCHOR ONLY

INSTALLATION TORQUE VALUES	
DIAMETER	TORQUE (FT.–LBS.)
3/8"	30
1/2"	50
5/8"	40
3/4"	110

NOTE:
LOADS BASED ON f'c = 3000 PSI

4. WHEN INSTALLING EXPANSION BOLTS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE–INCH BETWEEN THE REINFORCEMENT AND THE EXPANSION BOLT. IF MANUFACTURER INSTALLATION TORQUE IS LESS THAN TEST TORQUE LISTED, USE THE INSTALLATION TORQUE VALUE FOR TESTING PURPOSES. TEST 24 HOURS MINIMUM AFTER INSTALLATION.
5. IF THE MFGR RECOMMENDED TORQUE IS LESS THAN THE TEST TORQUE IN THE TABLE, THE MFGR RECOMMENDED TORQUE SHALL BE USED.
6. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

   HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

   TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

   WEDGE OR SLEEVE TYPE: ONE–HALF (½) TURN OF THE NUT. ONE–QUARTER (¼) TURN OF THE NUT FOR THE ⅜ IN. SLEEVE ANCHOR ONLY.

11 / A8.02 TYPICAL NOTES
DSM1 NO SCALE

POST INSTALLED ANCHOR SPECIAL INSPECTION NOTES

POST–INSTALLED ANCHORS

- CONTINUOUSLY INSPECT PLACEMENT OF POST–INSTALLED ANCHORS.
- THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INSTALLATION IN THE INSPECTION REPORT:
  1. ANCHOR TYPE, SIZE, AND DIMENSIONS.
  2. HOLE DIMENSIONS AND CLEANLINESS.
  3. ANCHOR SPACING.
  4. EDGE DISTANCE.
  5. ANCHOR EMBEDMENT.
  6. TORQUE VALUE (AS APPLICABLE).
  7. ADHESIVE ANCHOR INSTALLER CERTIFICATION (AS APPLICABLE).
- TEST ANCHORS PER THE REQUIREMENTS OF CBC SECTION 1901.3.4 AND ANCHOR'S ICC REPORT AND WITH THE FOLLOWING FREQUENCY:
- 100% FOR STRUCTURAL APPLICATIONS WITH THE FOLLOWING EXCEPTIONS:
  1. 10% AT SILL PLATE BOLTING.
  2. 25% AT INTERFACE DOWELS AT CAST–IN–PLACE CONCRETE OR SHOTCRETE WALL OVERLAYS.
  3. SLAB–ON–GRADE COLD JOINT DOWELS WHERE APPROVED BY THE ENGINEER.
- 50% FOR NON–STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE (ANCHORS NOT SHOWN ON STRUCTURAL DRAWINGS).
- TESTING OF ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO DSA. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY

NAILING SCHEDULE

UNLESS SPECIFICALLY NOTED OTHERWISE, NAILING SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, USING ONLY COMMON WIRE NAILS. NAILING NOT NOTED BELOW OR ON PLANS SHALL HAVE A MINIMUM OF 2 NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.

WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

1. JOISTS OR RAFTERS AT BEARING, TOENAIL EACH SIDE. . 2–10d
2. BRIDGING TO JOIST, TOENAIL EACH END 2–8d
3. SOLE PLATE TO JOIST OR BLOCKING, BLOCKING, FACE NAIL . . . . . 16d AT 16" O.C.
4. TOP PLATE TO STUD, END NAIL . . . . . 2–16d FOR 2x4 (NOT REQUIRED WHERE A35 ANCHORS ARE USED) 3–16d FOR 2x6 4–16d FOR 2x8
5. STUD TO SOLE PLATE, 2x4 . . . . . 4–8d TOENAILS (USE ONE HALF OF REQUIRED TOE NAILS ON ONE SIDE WHERE A35 ANCHORS ARE USED). OR 2–16d END NAILS
   2x6 . . . . . 6–8d TOENAILS OR 3–16d END NAILS
   2x8 . . . . . 8–8d TOENAILS OR 4–16d END NAILS
6. DOUBLE STUDS, FACE NAILS . . . . . 16d AT 24" O.C.
7. DOUBLE TOP PLATES, FACE NAILS . . . . . 16d AT 16" O.C.
8. TOP PLATES, LAPS AT INTERSECTIONS, FACE NAILS 2–16d
9. CEILING JOIST TO PLATE, TOENAIL 3–8d
10. CONTINUOUS HEADER TO STUD, TOENAIL 4–8d
11. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAILS 3–16d
12. CEILING JOIST TO PARALLEL RAFTERS, FACE NAILS 3–16d
13. 1" BRACE TO EACH STUD AND PLATE, FACE NAILS 2–8d
14. DOUBLE RAFTERS, FACE NAIL . . . . . 16d AT 12" O.C.
15. BUILT UP STUDS . . . . . 16d AT 24" O.C.
16. BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTERS 2–10d
    TOE NAILS, EACH SIDE, EACH END TO JOIST OR RAFTER BEARINGS 2–10d
    TOE NAILS EACH END
17. BLOCKING BETWEEN STUDS . . . . . 2–16d OR 2–10d TOENAILS, EA. SIDE, EA. END
18. 1x6 SHEATHING EACH BEARING 2–8d
19. 1x8 SHEATHING EACH BEARING 3–8d

NAILS SHALL ACHIEVE THE MINIMUM PENETRATION SPECIFIED IN THE TABLE BELOW. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN THE MINIMUM SPACING NOR CLOSER TO THE MEMBERS END OR EDGE THAN 1/2 THE MINIMUM SPACING. HOLES SHALL BE BORED WHERE NECESSARY TO PREVENT SPLITTING.

20. ALL NAILS USED FOR PRESSURE TREATED WOOD SHALL BE HOT–DIPPED

COMMON WIRE NAIL PROPERTIES		
SIZE	NAIL DIA.	MINIMUM PENETRATION* AND SPACING
6d	0.113"	1.36"
8d	0.131"	1.57"
10d	0.148"	1.78"
16d	0.162"	1.94"
20d	0.192"	2.30"

*PENETRATION INTO THE PIECE RECEIVING THE POINT

GENERAL NOTES

1. THE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2001 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE AND AMENDMENTS.
2. DETAILS AND NOTES SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. DETAILS ON THIS SHEET ARE AT NO SCALE, UNLESS NOTED OTHERWISE.
3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAILS ARE NOT CLEAR, OR IF DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ARCHITECT.
4. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.

WOOD NOTES

1. UNLESS SPECIFICALLY SHOWN OTHERWISE, BOLTS WHERE CALLED FOR ON THE DRAWINGS SHALL BE MACHINE BOLTS CONFORMING TO ASTM A307.
2. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. SEE DETAIL 18/A7.01
3. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
4. FRAMING ANCHORS AND CONNECTORS SHOWN ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CA. OR EQUIVALENT. PROVIDE FASTENERS IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
5. SATISFACTORY INSTALLATION SHALL BE DEMONSTRATED ON THE JOB AND THE ACCEPTANCE OF THE ARCHITECT SHALL BE OBTAINED BEFORE THE USE OF MACHINE–APPLIED NAILS CAN BE APPROVED. APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
6. NO UPSET THREADS ALLOWED ON ANCHOR BOLTS.
7. ALL NAILS ARE COMMON NAILS.
8. ALL BORED HOLES ARE (1/16 – 1/32) LARGER THAN BOLT SIZE.

WOOD FRAMING DATA

SAWN LUMBER

DOUGLAS FIR COAST REGION, CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE No. 17, AS AMENDED TO DATE.
MOISTURE CONTENT SHALL BE LESS THAN 19% FROM THE TIME OF INSTALLATION ONWARD.

1. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, No. 1 & BETTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, SELECT STRUCTURAL, WHERE NOTED ON THE DRAWINGS.
3. 6x, & LARGER BEAMS, No. 1 WHEN BEAM WIDTH IS NOT MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 6 BELOW.
4. 2x, 3x, 4x, LEDGERS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. 4x4 AND 4x6 POSTS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. 6x6 AND LARGER POSTS, DENSE No. 1, WHEN POST WIDTH IS MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 3 ABOVE.
7. 2x, 3x, STUDS AND BLOCKING, No. 1
8. FOUNDATION PLATES: PRESSURE TREATED DOUGLAS FIR No. 1.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE FOHC.

WOOD FRAMING PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

FASTENERS AND BOLT ASSEMBLIES IN PRESSURE TREATED LUMBER SHALL BE HOT DIPPED ZINC–COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A 153.

BOLT HOLES SHALL BE 1/32"MIN TO 1/16"MAX LARGER THAN THE BOLT DIAMETER, U.N.O.

PLYWOOD

ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1–19, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ALL PLYWOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE PLYWOOD

ALL UNBLOCKED PLYWOOD EDGES SHALL BE TONGUE–AND–GROOVE OR SUPPORTED WITH PLYWOOD CLEATS OR PLYWOOD CLIPS.

WALL PLYWOOD:

- 3 PLY EXPOSURE 1, CDX, SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

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DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
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2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
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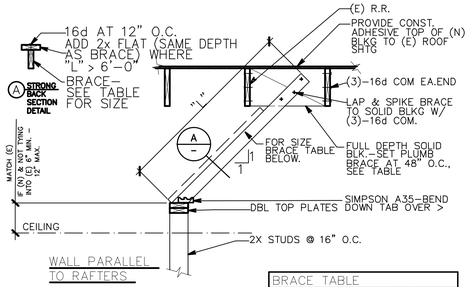
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Sheet Title:
INTERIOR DETAILS

Job No.: **5599.2**

Sheet No.: **A8.02**

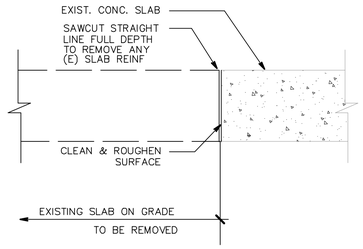
Release: Issue Date 6/4/26



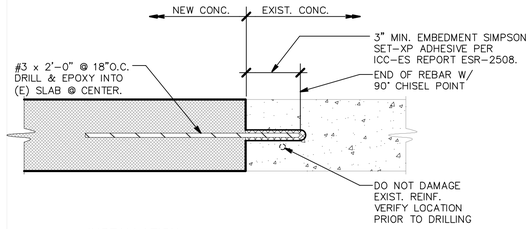
BRACE TABLE

BRACE LENGTH "L"	BRACE SIZE
0' TO 12'-0"	2x4
12'-1" TO 20'-0"	2x6

14 / A8.03 WALL BRACING AT SOLID RAFTERS
SW10202S DSM1

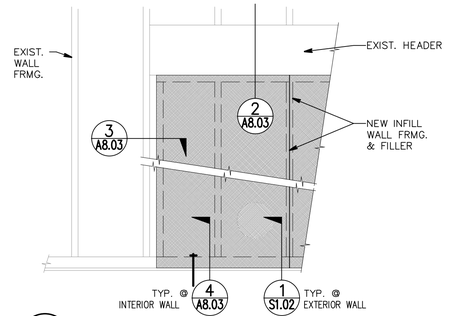


9 / A8.03 TYPICAL SLAB CUTTING JOINT
S101_14 DSM1

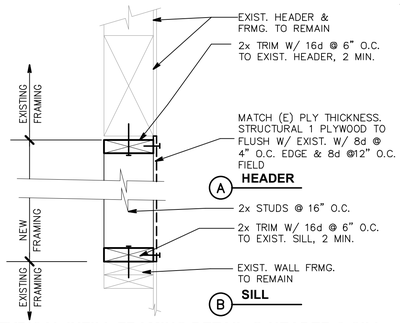


INSTALLATION:
1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER .
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR .

10 / A8.03 NEW CONCRETE JOINT TO EXISTING
DSM1



1 / A8.03 TYP. OPENING INFILL FRAMING ELEVATION
D23 DSM16

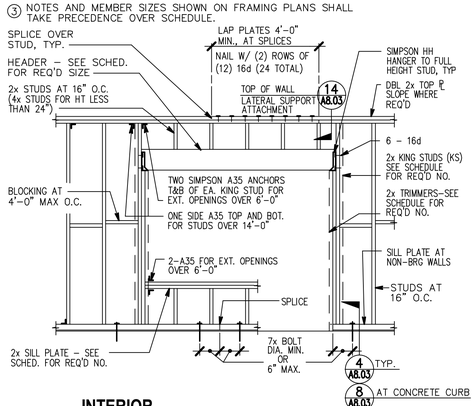


2 / A8.03 TYPICAL INFILL FRAMING DETAIL @ HEADER & SILL
A702 DSM8 — 1 1/2"=1'-0"

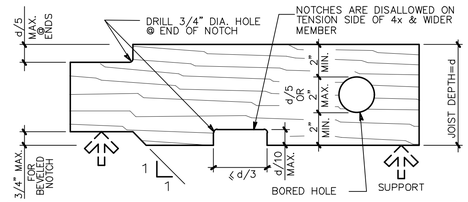
HEADER SCHEDULE

CLEAR SPAN OF OPENING	HEADER SIZE ①	NUMBER OF TRIMMERS		NUMBER OF KING STUDS		NUMBER OF SILL PLATES	
	NON-BRG WALL	NON-BRG WALL		EXTERIOR	INTERIOR	EXTERIOR	INTERIOR
UP TO 4'-0"	4x6	1		1	1	1	1
4'-1" TO 6'-0"	4x8	1		1	1	1	1
6'-1" TO 8'-0"	4x10	2		2	2	2	1

NOTES:
① 4x HEADER SIZE SHOWN IS FOR 2x4 STUD WALL. REVISE TO 6x FOR 2x6 STUD WALLS AND 8x FOR 2x8 STUD WALLS.
② DETAILS AND MEMBER SIZES ARE TYPICAL UNLESS OTHERWISE NOTED OR DETAILED.
③ NOTES AND MEMBER SIZES SHOWN ON FRAMING PLANS SHALL TAKE PRECEDENCE OVER SCHEDULE.

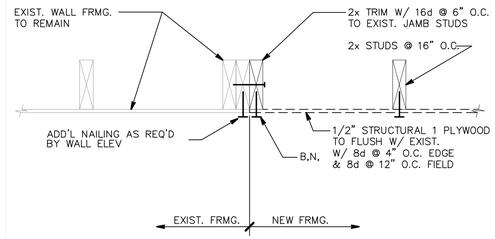


16 / A8.03 INTERIOR TYPICAL NON-BEARING WALL FRAMING

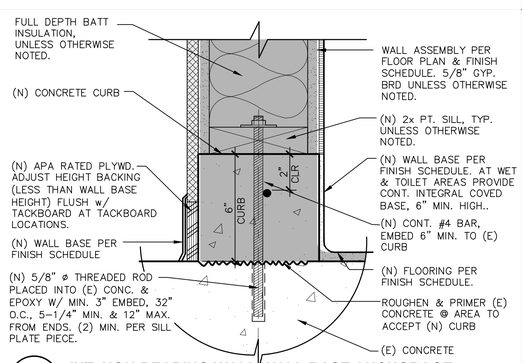


LOCATION	MAXIMUM BORED HOLE DIAMETER	MAXIMUM DEPTH OF NOTCH (TOP OR BOT.)
WITHIN 3d FROM SUPPORT	d/5	d/5
FROM 3d FROM SUPPORT TO 1/3 POINT OF SPAN	d/5	d/10
CENTER 1/3 OF SPAN	d/5	NOT PERMITTED

11 / A8.03 ALLOWABLE JOIST NOTCHES

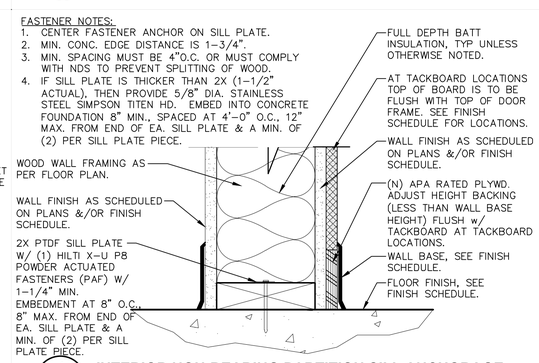


3 / A8.03 INFILL JAMB FRAMING
D25 DSM8 — 1 1/2"=1'-0"



8 / A8.03 INT. NON-BEARING WALL WALL BASE ANCHORAGE
ADG130-16 — SCALE: 1' = 1'-0"

FASTENER NOTES:
1. CENTER FASTENER ANCHOR ON SILL PLATE.
2. MIN. CONC. EDGE DISTANCE IS 1-3/4".
3. MIN. SPACING MUST BE 4"O.C. OR MUST COMPLY WITH NDS TO PREVENT SPLITTING OF WOOD.
4. IF SILL PLATE IS THICKER THAN 2X (1-1/2" ACTUAL), THEN PROVIDE 5/8" DIA. STAINLESS STEEL SIMPSON TITEN HD. EMBED INTO CONCRETE FOUNDATION 8" MIN., SPACED AT 4'-0" O.C., 12" MAX. FROM END OF EA. SILL PLATE & A MIN. OF (2) PER SILL PLATE PIECE.



4 / A8.03 INTERIOR NON-BEARING PARTITION SILL ANCHORAGE
ADG130-15 — SCALE: 1' = 1'-0"

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DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

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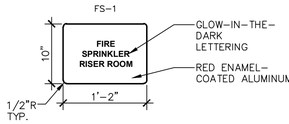
Job No.:
5599.2

Sheet No.:
A8.03

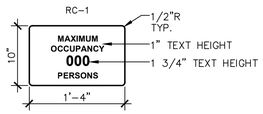
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TYPICAL ROOM IDENTIFICATION

FIRE SPRINKLER ROOM SIGN (FS)

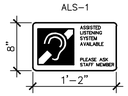


ROOM CAPACITY SIGN (RC)



ASSISTED LISTENING SYSTEM (ALS)

1. SEE FLOOR PLAN FOR POSTED LOCATION
2. SEE SPECIFICATIONS SECTION 275126 FOR ALS REQUIREMENTS



NO SMOKING SIGN (NS)

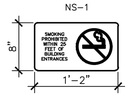


TABLE 11B-703.5.5 (VISUAL CHARACTER HEIGHT)		
HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCHES
	72 INCHES AND GREATER	5/8 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	LESS THAN 180 INCHES	2 INCHES
	180 INCHES AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
GREATER THAN 120 INCHES	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FOOT

GENERAL NOTES:

1. INFORMATIONAL SIGNAGE SHALL COMPY WITH CBC 11B-703.5
2. INFORMATIONAL SIGNS ARE NOT REQUIRED TO HAVE RAISED CHARACTERS AND ACCOMPANYING BRAILLE
3. LETTERING TO BE 3/4"MIN U.N.O

FINISH AND CONTRAST (11B-703.5.1): VISUAL CHARACTERS AND THEIR BACKGROUND SHALL HAVE NON GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

CASE (CBC 11B-703.5.2): CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH

STYLE (CBC 11B-703.5.3): CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OTHER UNUSUAL FORMS

CHARACTER PROPORTIONS (CBC 11B-703.5.4): CHARACTER SHALL BE SELECTED FROM FRONTS WHERE THE WIDTHS OF THE UPPERCASE LETTERS "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I"

CHARACTER HEIGHT (CBC 11B-703.5.5): MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-705.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".

STROKE THICKNESS (CBC 11B-703.5.7): STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

CHARACTER SPACING (CBC 11B-703.5.8): CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT

LINE SPACING (CBC 11B-703.5.9): SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.

FORMAT (CBC 11B-703.5.10): TEXT SHALL BE IN A HORIZONTAL FORMAT

PICTOGRAMS (CBC 11B-703.5.11): PICTOGRAMS SHALL HAVE A FIELD HEIGHTS OF 6 INCHES MINIMUM, CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH, PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD AND BRAILLE TRANSLATION BELOW TEXT DESCRIPTION, TEXT DESCRIPTORS SHALL COMPLY WITH CBC SECTIONS 11B-703.2, 11B-703.3, AND 11B-703.4.1

WALL MOUNTED TOILET SIGNANGE AT ACCESSIBLE TOILETS (TRW)

TRW-W WOMEN | TRW-M MEN | TRW-U RESTROOM

WALL MOUNTED ACCESSIBLE ACCESS SIGN (ISA)

SYMBOL SHALL COMPLY WITH CBC 11B-703.7.2.1

ISA-1

WALL MOUNTED IDENTIFICATION SIGNAGE @ FUNCTIONAL ROOMS (RN)

COORDINATE ROOM NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION. DO NOT USE IDENTIFICATION FOUND ON THE DRAWINGS, U.N.O

RN-1 NAME NUMBER

WALL MOUNTED TACTILE EXIT SIGN (TE)

1. EXIT DOOR LEADS DIRECTLY TO LEVEL GRADE EXTERIOR EXIT, SIGN TO STATE "EXIT".

TE-1 EXIT

2. EXIT DOOR LEADS DIRECTLY TO LEVEL GRADE EXTERIOR EXIT BY MEANS OF RAMP OR STAIR, SIGN TO STATE "EXIT RAMP DOWN", "EXIT STAIR DOWN", "EXIT RAMP UP", AND "EXIT STAIR UP".

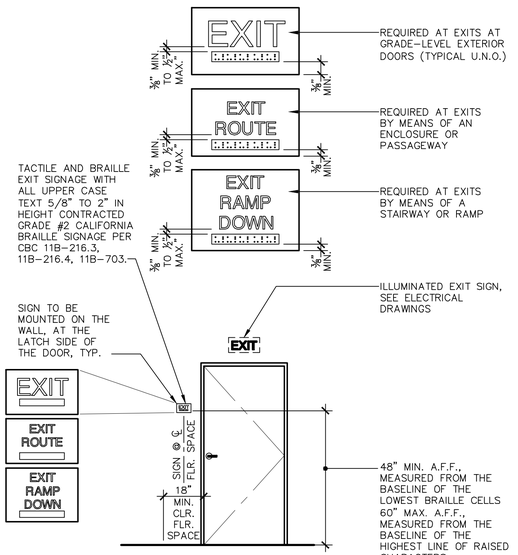
TE-2 EXIT RAMP UP | TE-3 EXIT RAMP DOWN | TE-4 EXIT STAIR UP | TE-5 EXIT STAIR DOWN

3. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE"

TE-6 EXIT ROUTE

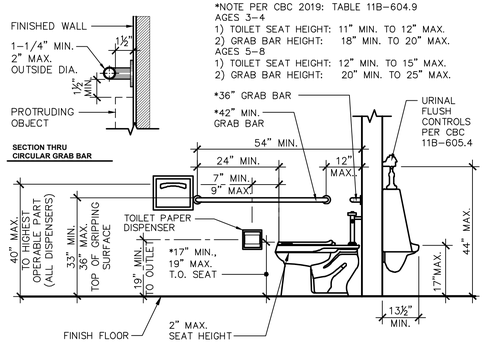
DIAPER CHANGING STATION

NOTES:
1. DOOR SIGNS TO BE CONSTRUCTED FROM 1/4" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED BY ARCHITECT.
2. ATTACH SIGNS USING FOUR (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS, (COUNTERSUNK,) AND ADHESIVE.

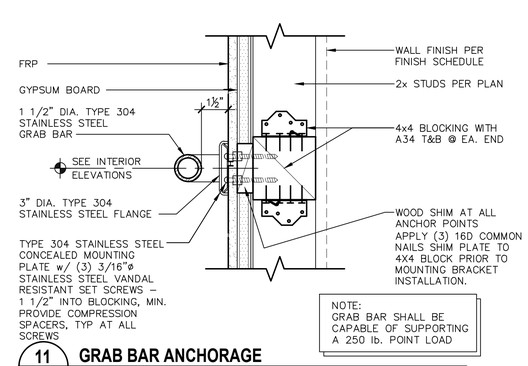


14 / A8.04 TYPICAL ROOM SIGNAGE — ADA000-22 — SCALE: 1' = 1'-0"

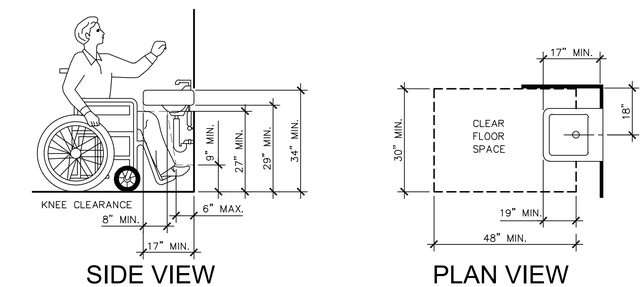
*NOTE PER CBC 2019: TABLE 11B-604.9
AGES 3-4
1) TOILET SEAT HEIGHT: 11" MIN. TO 12" MAX.
2) GRAB BAR HEIGHT: 18" MIN. TO 20" MAX.
AGES 5-8
1) TOILET SEAT HEIGHT: 12" MIN. TO 15" MAX.
2) GRAB BAR HEIGHT: 20" MIN. TO 25" MAX.



15 / A8.04 ACCESSIBLE MOUNTING HEIGHTS — ADA200-12 — SCALE: 1' = 1'-0"



11 / A8.04 GRAB BAR ANCHORAGE — ADM246-01 — SCALE: 1' = 1'-0"



NOTES:

1. NO SHARP OR ABRASIVE SURFACES SHALL BE PRESENT UNDER LAVATORIES.
2. ALL PIPES UNDERNEATH LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT FROM THE PERSONS USING THE FIXTURE. (REFER TO SPECIFICATIONS)
3. ACCEPTABLE FAUCETS SHALL INCLUDE PUSH ELECTRONIC AND LEVER MECHANISM. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS. SEE PLUMBING DRAWINGS.
4. ACCESSIBLE FAUCET CONTROLS SHALL BE PUSH TYPE WITH 5 LBS MAX. OPERATING FORCE.

16 / A8.04 CBC FIGURE 11B-1D - KNEE CLEARANCE @ ACCESSIBLE LAVATORY — ADA200-10 — SCALE: 1' = 1'-0"

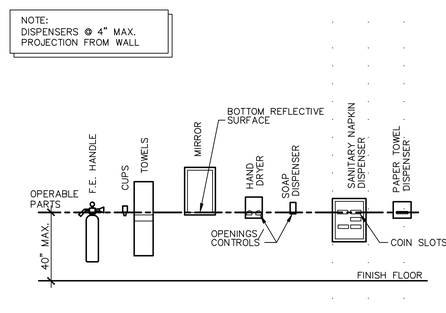
6 / A8.04 TYPICAL ROOM IDENTIFICATION AND TACTILE — ADA000-21 — SCALE: 1' = 1'-0"

RESTROOM IDENTIFICATION SYMBOLS, 11B-216.8 COLOR TO CONTRAST WITH DOOR COLOR
NO TEXT or ISA REQ'D
MOUNT SIGN @ 1" MAX. OFFSET
NO BRAILLE ON THIS SIGN
12" DIAMETER CONTRASTING COLORS
12" MEN'S ALL GENDERS WOMEN'S
70% CONTRAST BETWEEN CHARACTERS AND BACKGROUND
58" A.F.F. MIN. 60" A.F.F. MAX.
TACTILE & BRAILLE ROOM ID SIGNAGE, 11B-703.2. 6" HIGH PICTOGRAM, 11B-703.6. ALL UPPER CASE TEXT 5/8"-2" IN HEIGHT AND CONTRACTED GRADE #2 BRAILLE CELLS
ALL GENDERS RESTROOM
RESTROOM
SIGN @ CLR. FLR. SPACE
18" MIN. CLR. FLR. SPACE
EDGES SHALL BE EASED OR ROUNDED AT 1/16" (1.59mm) MIN. OR CHAMFERED AT 1/8"(3.2mm) MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" (3.2mm) MIN. AND 1/4" (6.4mm) MAX.
48" MIN. A.F.F., MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS
60" MAX. A.F.F., MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS

NOTES:
1. DOOR SIGNS TO BE TRIANGULAR CONSTRUCTED FROM 1/4" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED BY ARCHITECT
2. ATTACH SIGNS USING (4) FLAT HEAD STAINLESS STEEL WOOD SCREWS (COUNTERSUNK) ABD ADHESIVE.
3/8" MIN. TO ½" MAX.
MAN / WOMAN PICTOGRAM DESIGN NOT REGULATED
6" MIN. FIELD HEIGHT, TYP.

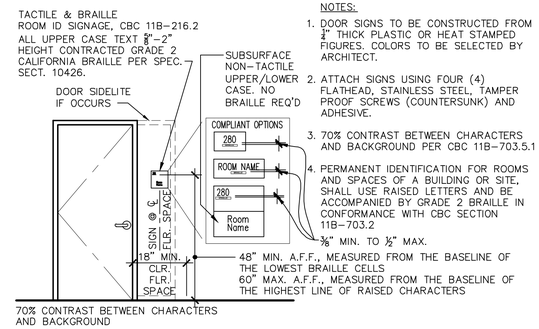
7 / A8.04 RESTROOM SIGNAGE — ADA000-01 — SCALE: 1' = 1'-0"

NOTE:
DISPENSERS @ 4" MAX. PROJECTION FROM WALL



8 / A8.04 ACCESSIBLE MOUNTING HTS FOR TOILET RM ACCESSORIES — ADA200-13 — SCALE: 1' = 1'-0"

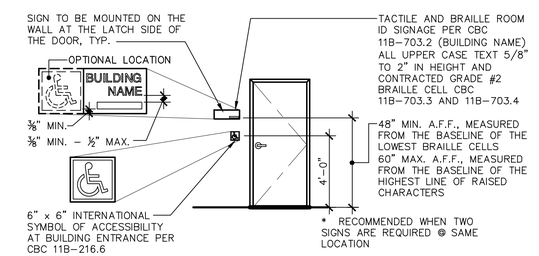
2 / A8.04 TYPICAL EXIT SIGNAGE — ADX200-01 — SCALE: 1' = 1'-0"



NOTES:
1. DOOR SIGNS TO BE CONSTRUCTED FROM ¼" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED BY ARCHITECT.
2. ATTACH SIGNS USING FOUR (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS (COUNTERSUNK) AND ADHESIVE.
3. 70% CONTRAST BETWEEN CHARACTERS AND BACKGROUND PER CBC 11B-703.5.1
4. PERMANENT IDENTIFICATION FOR ROOMS AND SPACES OF A BUILDING OR SITE, SHALL USE RAISED LETTERS AND BE ACCOMPANIED BY GRADE 2 BRAILLE IN CONFORMANCE WITH CBC SECTION 11B-703.2
3/8" MIN. TO ½" MAX.

3 / A8.04 ROOM ID SIGNAGE — ADX100-01 — SCALE: NO SCALE

NOTES:
1. DOOR SIGNS TO BE CONSTRUCTED FROM 1/4" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED BY ARCHITECT.
2. ATTACH SIGNS USING FOUR (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS (COUNTERSUNK) AND ADHESIVE.
3. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND, CBC 11B-703.5.1.
4. ISA SYMBOL CAN ALSO BE PLACED ON DOOR. THE LOCATION IS NOT REGULATED.



4 / A8.04 BUILDING ENTRANCE/I.S.A. SIGNAGE — ADA100-01 — SCALE: 1' = 1'-0"

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FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
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Project Name:
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COOPER MIDDLE SCHOOL
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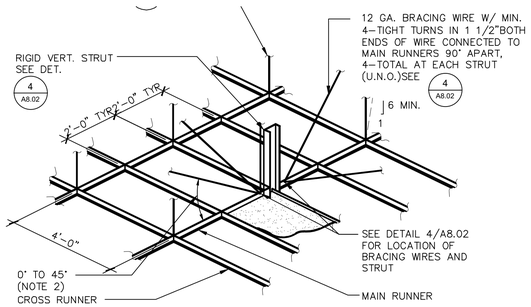
Job No.: **5599.2**

Sheet No.: **A8.04**

Release: Issue Date

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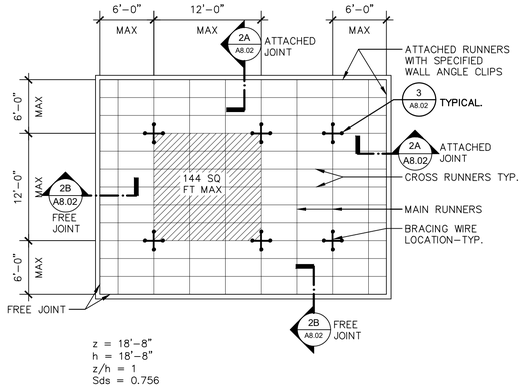
NOTES:

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

3 A8.05 SUSPENDED CEILING - SUSPENSION AND BRACING ASSEMBLY

REFERENCE: DSA IR 25–2 Rev. 3/18/22
DETAIL 2.35

SCALE: 1' = 1'–0"



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

1 A8.05 TYPICAL CEILING PLAN FOR 12'-0" x 12'-0" Brace Assembly Spacing

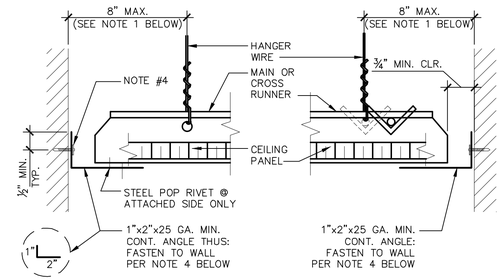
REFERENCE: DSA IR 25 – 2 Rev. 3/18/22

SCALE: 1/8" = 1'–0"

4 A8.05 SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT

REFERENCE: DSA IR 25–2 Rev. 3/18/22

SCALE: 1' = 1'–0"

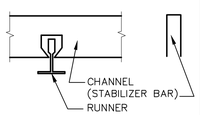


A ATTACHED JOINT

B FREE JOINT

NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE END OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
   A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   B. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX.



APPROVED STABILIZER
(SEE NOTE 3)

COMPRESSION STRUT TABLE

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

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

5 A8.05 COMPRESSION STRUT TABLE

REFERENCE: DSA IR 25–2 Rev. 3/18/22
DETAIL 3.21

SCALE: 1' = 1'–0"

2 A8.05 CEILING PERIMETER

SCALE: 1' = 1'–0"

CEILING SYSTEM GENERAL NOTES

DSA IR 25-2 Revised 01/17/25 Under CBC 2022
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system shall be rated heavy duty per ASTM E580 Section 5.1.1 as defined by ASTM C635. Cross runners shall have a minimum load carrying capability of 16 pounds per linear foot per ASTM E580 Section 5.3.3.

1.03 Main runners, cross runners, splices, expansion devices, and intersection connectors shall be designed to carry a mean ultimate test load of not less than 180 pounds in compression and tension per ASTM E580 Section 5.1.2.

1.04 Hanger and brace wires shall conform to ASTM A641 and the material properties required by IR 25-1: Maximum Allowable Load for Ceiling Wires. Hanger and brace wires shall be #12-gauge (0.106-inch diameter) or larger.

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

Manufacturer: ARMSTRONG WORLD INDUSTRIES
Product Name: Acoustical Panel Ceiling
Evaluation Report Type and Number: ESK 1308
Main Runner Part, Model, or Catalog Number: 7301
Cross Runner Part, Model, Catalog Number: ML 73 43

1.06 Seismic Wall Clip: Manufacturer's Model: BERC2 BEAM END RETAINING CLIP

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

1.08 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

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

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.

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

3. ATTACHMENT OF HANGER AND BRACING WIRES

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

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

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

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

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

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: HILTI KWIK BOLT 3 / ICC-ES ESR-1385.

4.03 Power-Actuated Fasteners shall be: HILTI X-DNI 42 P8 / ICC-ES ESR-2269.

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

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

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

5. TESTING

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

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES

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

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14-gauge. Rotational spring catches do not comply. A #12-gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12-gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12-gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

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

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

7. SERVICES WITHIN THE CEILING

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

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12-gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12-gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12-gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

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

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DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL
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Sheet Title:
INTERIOR DETAILS

Job No.:
5599.2

Sheet No.:
A8.05

Release: Issue Date 6/4/26

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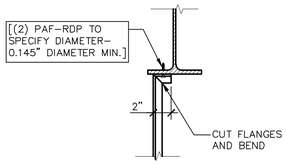
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1" = 30'-0" 90 60 30 0 30

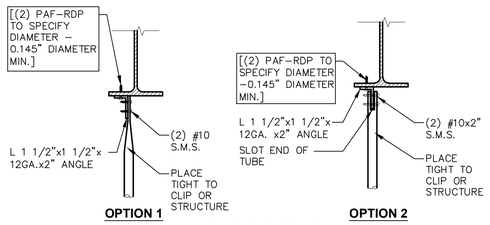
1" = 20'-0" 60 40 20 0 20

1/8" = 1'-0" 24 16 8 0 8

1/4" = 1'-0" 12 8 4 0 4



CHANNEL STRUT



TUBE STRUT

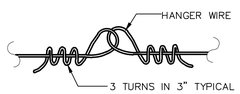
NOTES:

1. STRUCTURAL STEEL MEMBER SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

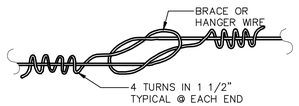
10 / A8.06 STRUT CONNECTION TO STRUCTURAL STEEL

5.40 SCALE: 1' = 1'-0"

NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.



HANGER WIRE ONLY



HANGER OR BRACE WIRE

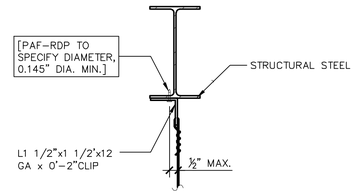
11 / A8.06 TYP. WIRE TIE

SCALE: 1' = 1'-0"

STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE SUSPEDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
~~METAL DECK~~	~~4.20~~	~~4.30~~
CONCRETE OVER METAL DECK	~~4.21~~	~~4.31~~
CONCRETE SLAB, BEAM, OR JOIST	~~4.22~~	~~4.32~~
STRUCTURAL STEEL	6/A8.03	7/A8.03
~~METAL STUD WALL~~	~~4.24~~	~~4.34~~
~~SAWN TIMBER~~	~~4.25, 4.29~~	~~4.35~~
~~WOOD I JOIST~~	~~4.26~~	~~4.36, 4.37~~
~~WOOD CHORD TRUSS~~	~~4.27, 4.29~~	~~4.38, 4.29~~
~~OPEN WEB STEEL JOIST~~	~~4.28, 4.29~~	~~4.39, 4.29~~

5 / A8.06 HANGER AND BRACING WIRE CONNECTION MATRIX

4.11 SCALE: 1' = 1'-0"



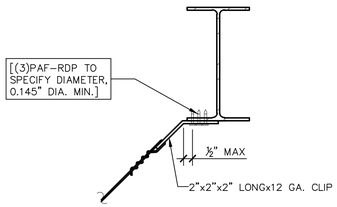
HANGER WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/AISC 341-10
3. REFER TO 4/A8.03 FOR ADDITIONAL DETAILS.

6 / A8.06 HANGER WIRE CONNECTION TO STRUCTURAL STEEL

4.23 SCALE: 1' = 1'-0"



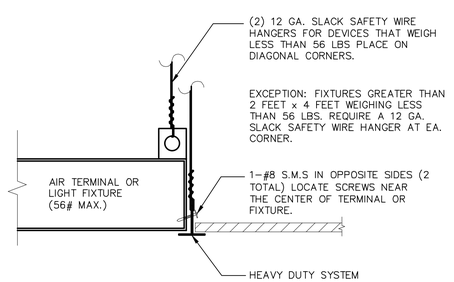
BRACING WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/AISC 341-10
3. REFER TO 4/A8.03 FOR ADDITIONAL DETAILS.

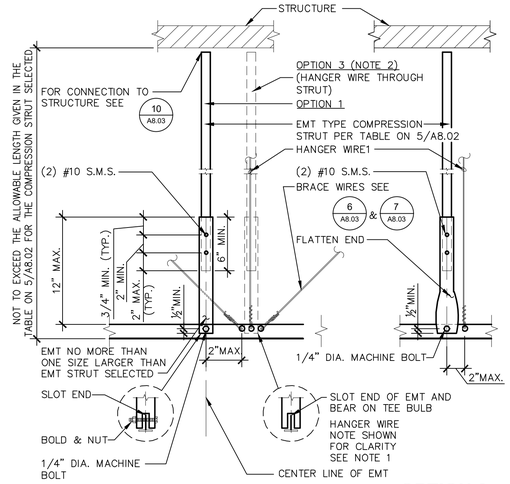
7 / A8.06 BRACING WIRE CONNECTION TO STRUCTURAL STEEL

4.33 SCALE: 1' = 1'-0"



8 / A8.06 SUSPENDED ACOUSTICAL CEILING-LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL

REFERENCE: DSA IR 25-2 Rev. 3/18/22 DETAIL 2.80 SCALE: 1' = 1'-0"



OPTION 1 & 3

OPTION 2

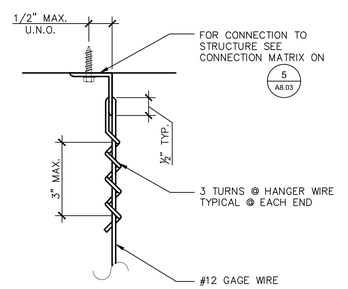
SEE OPTION 1 FOR INFORMATION NOT SHOWN

NOTES:

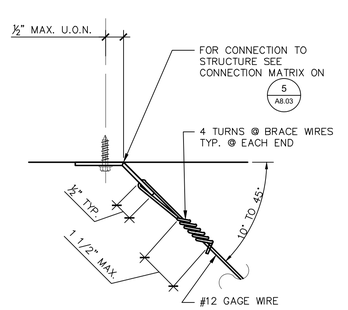
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3
2. APPLICABLE TO STEEL WITHOUT GYPSUM BOARD ONLY.

2 / A8.06 SUSPENDED ACOUSTICAL CEILING - EMT TYPE STRUT

3.20 SCALE: 1' = 1'-0"



HANGER WIRE



BRACING WIRE

4 / A8.06 HANGER AND BRACING WIRE CONNECTION - TYPICAL WIRE TURNS

4.10 SCALE: 1' = 1'-0"

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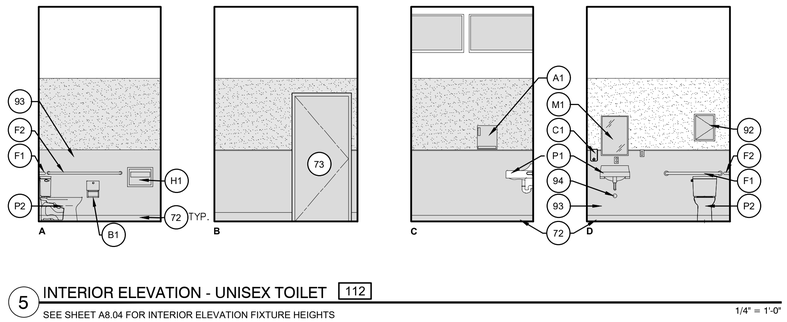
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INTERIOR DETAIL

Job No.:
5599.2

Sheet No.:
A8.06

Release: Issue Date

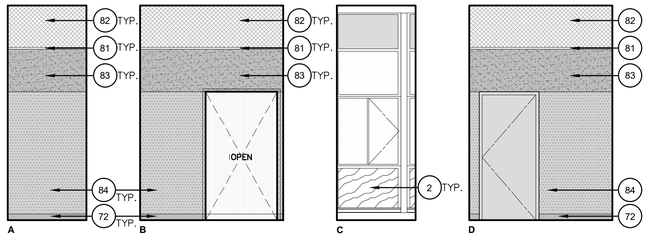
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5 INTERIOR ELEVATION - UNISEX TOILET 112

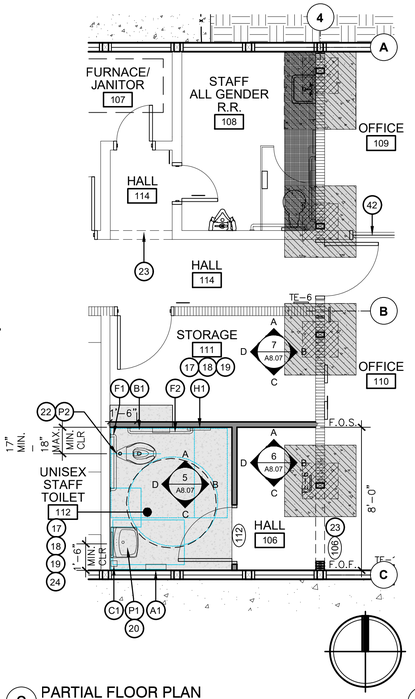
SEE SHEET A8.04 FOR INTERIOR ELEVATION FIXTURE HEIGHTS

1/4" = 1'-0"



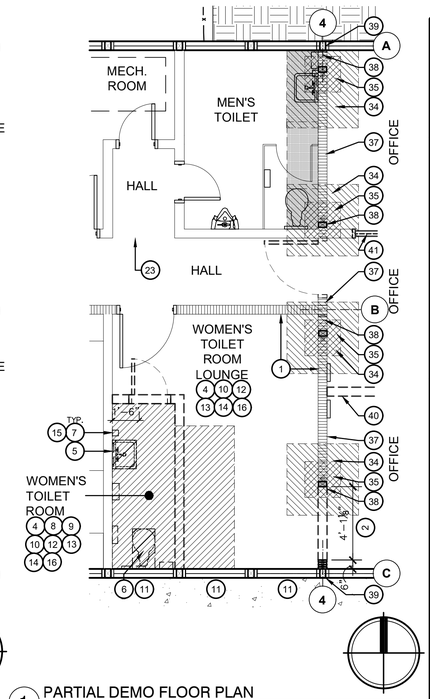
6 INTERIOR ELEVATION - HALL 106

1/4" = 1'-0"



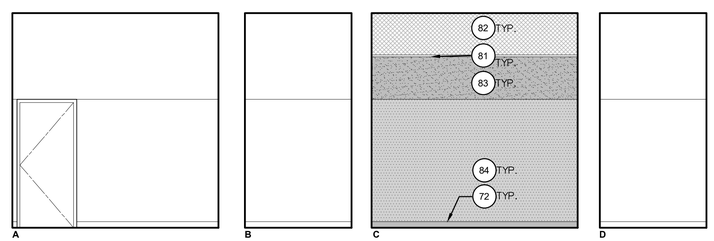
2 PARTIAL FLOOR PLAN

1/4" = 1'-0"



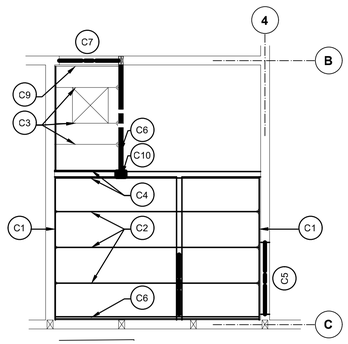
1 PARTIAL DEMO FLOOR PLAN

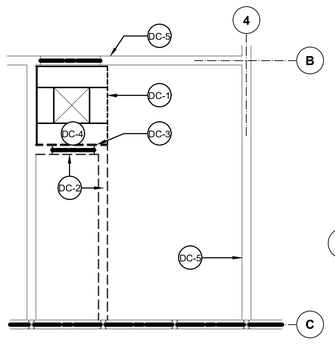
1/4" = 1'-0"



7 INTERIOR ELEVATION - STORAGE 111

1/4" = 1'-0"





9 PARTIAL FRAMING PLAN

NOTE:
SEE DETAIL 3/S1.02 FOR FRAMING INFO. UNLESS OTHERWISE NOTED.

1/4" = 1'-0"

8 PARTIAL FRAMING DEMO PLAN

1/4" = 1'-0"

4 PARTIAL RCP PLAN

1/4" = 1'-0"

3 PARTIAL DEMO RCP

1/4" = 1'-0"

DEMO CEILING FRAMING PLAN KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

DC-1 REMOVE (E) CEILING JOISTS.

DC-2 REMOVE (E) NON-BEARING PARTITION WALL.

DC-3 REMOVE (E) LEDGER ASSEMBLY.

DC-4 REMOVE (E) HEADER ASSEMBLY.

DC-5 (E) SHEAR WALL / BEARING WALL.

CEILING FRAMING PLAN KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) REMOVE

C1 (N) 2x8 DF-L#2 CONT. LEDGER WITH (2) SIMSPON SDS25312 SCREWS PER STUD, TYP.

C2 (N) 2X6 DF-L#2 CEILING JOISTS AT 24" O.C. MAX. SPACING W/ (1) SIMPSON U26 HANGER AT EACH END TO LEDGER.

C3 (E) 2X4 DF-L#2 CEILING JOIST SIMPSON U24 HANGERS AT (E) LEDGER AND AT (N).

C4 (N) 2X6 DF-L#2 CEILING JOIST ADJACENT TO WALL WITH (2) 16d COMMON NAILS PER STUD, TYP.

C5 (N) "STUD WIDTH" X 6 DF-L#1 HEADER W/ MIN. (1) KING STUD AND TRIMMER, U.O.N.

C6 (N) 4x6 DF-L#2 CEILING JOIST. PROVIDE (N) HUC46 TO (E) KING STUD & TRIMMER AT (E) DOOR OPENING.

C7 (E) HEADER VERIFY HEADER IS AT LEAST 6X6 DF-L #2 OR BETTER W/ AT LEAST (1) 2X STUD WIDTH KING STUD & TRIMMER.

C8 INFILL EXISTING OPENING WITH LIKE STUDS ASSEMBLY.

C9 (E) 2X4 DF-L#2 CEILING JOIST ADJACENT TO WALL WITH (2) 16d COMMON NAILS PER STUD, TYP.

C10 (N) 2X DBL STUD UNDER BEAM & PROVIDE (1) STUD (TOP OF SILL PLATE TO BOTTOM OF DBL TOP PLATE) EACH SIDE OF BEAM TO CREATE A BEAM POCKET.

FIXTURE KEY NOTES

NOTE:
SEE THE SPECIFICATION FOR SPECIFIC FIXTURE INFORMATION.

A1 PAPER TOWEL DISPENSER.
B1 TOILET TISSUE DISPENSER.
C1 SOAP DISPENSER.
F1 GRAB BAR: 36" MIN. LONG - SEE DETAIL 11/A8.04 FOR WALL ANCHORAGE.
F2 GRAB BAR: 42" MIN. LONG - SEE DETAIL 11/A8.04 FOR WALL ANCHORAGE.
H1 TOILET SET COVER.
M1 WALL MOUNTED MIRROR.
P1 LAVATORY PER PLUMBING PLANS.
P2 WATER CLOSET PER PLUMBING PLAN (LEVER TO BE ON ACCESS SIDE).

LEGEND

SEE LEGEND ON SHEET A2.01 FOR FLOOR PLAN AND A6.01 FOR REFLECTED CEILING PLAN LEGEND.

KEYED NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

1. (E) BEARING 2X WOOD STUD WALL.
2. (D) PORTION OF (E) BEARING WALL ASSEMBLY.
3. (D) EXISTING NON-BEARING PARTITION ASSEMBLY.
4. (D) FLOOR COVERING THROUGHOUT THE ROOM(S) OF RENOVATION AREA WHERE (N) FLOORING IS BEING INSTALLED. (D) FLOORING ASSEMBLY TO TOP OF SLAB OF & WALL BASE.
5. (D) WALL HUNG LAVATORY ASSEMBLY, SEE PLUMBING PLAN.
6. (D) WATER CLOSET ASSEMBLY, SEE PLUMBING PLAN.
7. (D) ALL TOILET ROOM ACCESSORIES.
8. SAWCUT AND REMOVE PORTION OF (E) SLAB TO CAP OFF PLUMBING LINE AS NEEDED. PROVIDE ROUGH SURFACE FOR NEW PATCH.
9. DEMOLISH PORTION OF WALL FINISH TO (E) STUD TO ACCESS PLUMBING AND PLUMBING SUPPORTS, TYP. THIS WALL
10. (D) WINDOW COVERING ASSEMBLY.
11. (E) WINDOW BLACKOUT COVERING.
12. (E) CONDUITS & ELECTRICAL FIXTURES ALONG THIS WALL COORDINATE W/ CONSULTANT DRAWINGS
13. (D) CONDUITS & ELECTRICAL FIXTURES ALONG THIS WALL COORDINATE W/ CONSULTANT DRAWINGS
14. (D) EXISTING FOUNDATION, SAWCUT & REMOVE TILE, MORTAR, & SLAB TO ACCOMMODATE (N) TOILET ROOM. SEE PROPOSED PLAN BELOW FOR EXTENT OF SLAB REMOVAL.
15. (D) ALL EXISTING ACCESSORIES FROM THIS ROOM AND CAP OFF UNLESS OTHERWISE NOTED ON CONSULTANT PLANS.
16. (D) WALL ASSEMBLY AS NEEDED TO ACCOMMODATE (N) ROOM WALL FINISHES.
17. SEE PLUMBING PLAN FOR CAPPING OF PLUMBING. INFILL & PROVIDE BACKING FOR (N) NON-SHRINK EPOXY.
18. PROVIDE (N) WALL FINISH ASSEMBLY AT DEMOED AREAS TO MATCH ADJACENT WALL, TYP. - SEE FINISH SCHEDULE FOR MORE INFO.
19. PROVIDE (N) WALL INFILL AT DEMOED AREAS TO MATCH ADJACENT WALL FRAMING & FINISH, TYP. UNLESS OTHERWISE NOTED. SEE FINISH SCHEDULE.
20. (N) LAVATORY ASSEMBLY - SEE PLUMBING PLAN.
21. (N) SINK ASSEMBLY - SEE PLUMBING PLAN.
22. (N) WATER CLOSET ASSEMBLY - SEE PLUMBING PLAN.
23. WALL ABOVE SHOWN DASHED.
24. (N) CONCRETE INFILL FLATWORK.
25. (D) LIGHT FIXTURE - SEE ELECTRICAL PLANS.
26. (E) CEILING PANELS TO REMAIN.
27. (E) MECHANICAL GRILL - SEE MECH.
28. (D) CEMENT PLASTER CEILING ASSEMBLY.
29. (E) HEAT SENSOR - SEE FIRE ALARM DRAWINGS.
30. (E) CEILING ACCESS TO REMAIN.
31. (E) STEP IN CEILING.
32. (N) GWB CEILING - SEE FINISH SCHEDULE.
33. RE-USED (E) CEILING TILE PATCH. CEILING ASSEMBLY TO MATCH ADJACENT (E) CEILING & SUPPORT.
34. SAW CUT AND REMOVE SLAB TO ACCOMMODATE NEW FOOTING INSTALLATION (SINGLE SLOPED HATCH). KEEP (E) REBAR FOR RE-USE TO TIE SLAB BACK TO FOOTINGS.
35. REMOVE AND/OR MODIFY EXISTING FOOTING (SHOWN WITH CROSS HATCH) - SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
36. SAW CUT AND REMOVE MORTAR SET TILE ASSEMBLY IN A STRAIGHT LINE , ALONG GROUT JOINT LINE (SHOWN WITH TIGHT SQUARE HATCH).
37. REMOVE THE EXISTING PLYWOOD WALL COVERING AND DIAGONAL SHEATHING TO FACE OF (E) STUD ALONG THIS SIDE OF THE WALL ALONG THIS WALL LINE. CARE SHALL BE TAKEN TO LIMIT THE DAMAGE OF WALL FINISHES ON THE OTHER SIDE OF THE (E) WALL.
38. LOCATION OF (N) HOLDOWN & FRAMING - SEE STRUCTURAL.
39. (E) 4X6 POST / MULLION.
40. (D) EXISTING NON-BEARING WALL ASSEMBLY ALONG THIS WALL LINE.
41. (D) EXISTING WINDOW GLAZING.
42. (N) SAFETY GLAZING (REPLACE GLAZING IN KIND).
43. (D) CEILING ASSEMBLY TO NEAREST TILE JOINT AS NEEDED TO ACCESS WALL FINISHES TO UNDERSIDE OF ROOF DECK FOR WALL RETROFIT. CARE SHALL BE TAKEN TO RE-USE (E) COLD ROLLED CHANNEL (CRC) FRAMING.
44. (N) 12x12 ACOUSTICAL TILE O/ 1/2" GYPSUM BOARD ATTACHED TO (E) CRC FRAMING, REPAIR AS NEEDED.
45. (N) 12x12 ACOUSTICAL TILE O/ 1/2" GYPSUM BOARD & (N) CRC FRAMING TO MATCH ADJACENT (E) CEILING ASSEMBLY, TYP. AT PREVIOUS WALL LOCATION.
46. (N) PLYWOOD SHEATHING.

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APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

Project Address:

COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

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UNISEX TOILET - 112

Job No.:

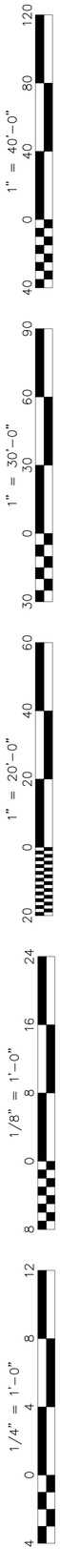
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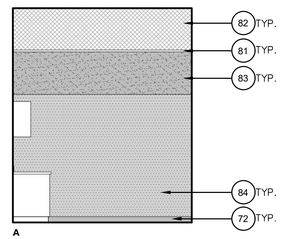
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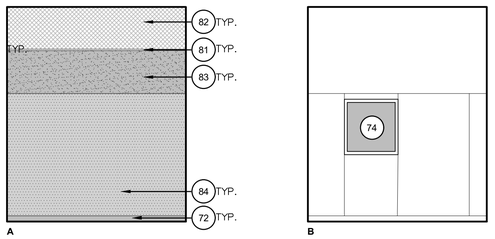
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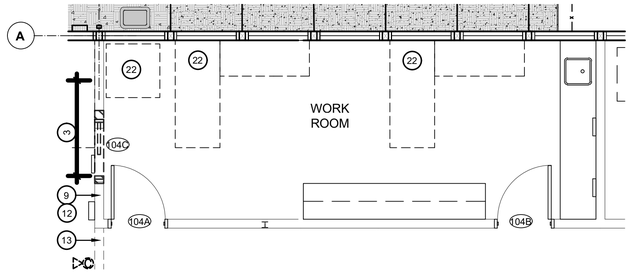
5 INTERIOR ELEVATIONS - STORAGE ROOM 104

1/4" = 1'-0"



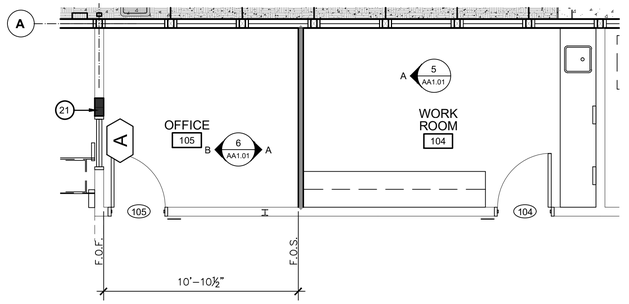
6 INTERIOR ELEVATIONS - OFFICE 105

1/4" = 1'-0"



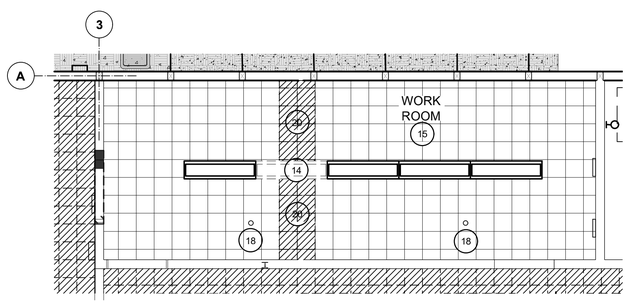
1 PARTIAL DEMO FLOOR PLAN

1/4" = 1'-0"



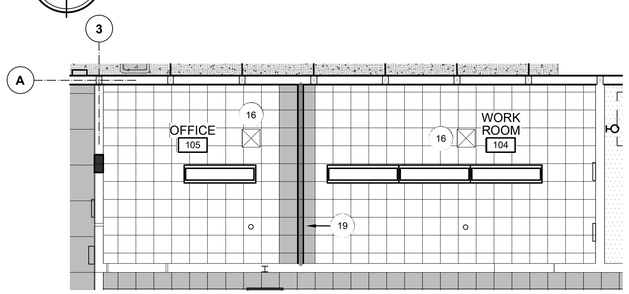
2 PARTIAL FLOOR PLAN

1/4" = 1'-0"



3 PARTIAL DEMO RCP

1/4" = 1'-0"



4 PARTIAL RCP PLAN

1/4" = 1'-0"

KEY NOTES

(D) DEMOLISH (E) EXISTING (N) NEW (R) RELOCATE

3. (D) EXISTING NON-BEARING PARTITION ASSEMBLY.
9. (D) WALL ASSEMBLY AS NEEDED TO ACCOMMODATE (N) ROOM WALL FINISHES.
12. PROVIDE (N) WALL INFILL AT DEMOED AREAS TO MATCH ADJACENT WALL FRAMING & FINISH, TYP. UNLESS OTHERWISE NOTED. SEE FINISH SCHEDULE.
13. WALL ABOVE SHOWN DASHED.
14. (D) LIGHT FIXTURE - SEE ELECTRICAL PLANS.
15. (E) CEILING PANELS TO REMAIN.
16. (E) MECHANICAL GRILL - SEE MECH.
18. (E) HEAT SENSOR - SEE FIRE ALARM DRAWINGS.
19. RE-USED (E) CEILING TILE PATCH. CEILING ASSEMBLY TO MATCH ADJACENT (E) CEILING & SUPPORT.
20. (D) PORTION OF EXISTING CEILING ASSEMBLY TO ACCOMMODATE (N) NON-BEARING WALL PARTITION.
21. (N) WALL INFILL TO MATCH ADJACENT SURFACE. SEE DETAIL 1/A8.03 FOR FRAMING INFORMATION.
22. POTENTIAL MODULAR FURNITURE NOT PART OF THIS CONTRACT.

LEGEND

SEE LEGEND ON SHEET A2.01 FOR FLOOR PLAN AND A6.01 FOR REFLECTED CEILING PLAN LEGEND.

(E) WOOD 2X6 STUDS @ 16" O.C. BEARING WALL.

(D) WALL ASSEMBLY (WALL IS NON BEARING PARTITION, U.O.N. VERIFY PRIOR TO DEMO.)

(N) 2X4 WOOD STUDS @ 16" O.C. WALL ASSEMBLY – SEE 16/A8.03.

WINDOWS

(E) WINDOW ASSEMBLY TO REMAIN.

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No. C 29955
REN. 5-31-27
STATE OF CALIFORNIA

Sheet Title:

ADD ALTERNATE #1

Job No.: **5599.2**

Sheet No.: **AA1.01**

Release: Issue Date

TESTING AND SPECIAL INSPECTION

GENERAL

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR AND PROJECT INSPECTOR [IOR] DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK AND AS NOTED IN DSA FORM 103. THE INSPECTIONS NOTED BELOW SHALL BE PERFORMED BY THE SPECIAL INSPECTOR UNLESS NOTED AS "IOR".

SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE SATISFACTION OF THE DIVISION OF THE STATE ARCHITECT, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- TESTING AND INSPECTIONS WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY SELECTED AND EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA). QUALIFICATION OF A TESTING AGENCY OR LABORATORY WILL BE UNDER THE JURISDICTION OF THE DSA STRUCTURAL SAFETY SECTION (SSS). PROCEDURAL AND ACCEPTANCE CRITERIA ARE SET FORTH IN THE 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) SEC. 4-333(c) AND 2022 CALIFORNIA BUILDING CODE (CBC) SEC. 1704.2.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWINGS AND SPECIFICATIONS.
- MATERIAL REQUIRED TO BE TESTED WILL BE SELECTED BY THE TESTING LAB OR THE DISTRICT'S PROJECT INSPECTOR AND NOT BY THE CONTRACTOR.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE DIVISION OF THE STATE ARCHITECT, THE DISTRICT OR DISTRICT'S DESIGNATED REPRESENTATIVE, THE ARCHITECT OR PROJECT MANAGER, THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR AND OTHER PERSONS DESIGNATED BY THE DISTRICT OR DISTRICT'S REPRESENTATIVE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL. TEST REPORTS SHALL BE SIGNED BY A REGISTERED CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED VERIFIED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.

PROJECT INSPECTOR [IOR]

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

SOILS

SOILS

- PERIODICALLY INSPECT EXCAVATIONS FOR PROPER DEPTH.

CONCRETE & REINFORCING

REINFORCING STEEL

- VERIFY THAT MILL CERTIFICATES SHOW REINFORCING STEEL IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.
- IOR PERIODICALLY INSPECT THE PLACEMENT OF REINFORCING STEEL FOR CONCRETE WHICH IS REQUIRED TO HAVE CONTINUOUS INSPECTION.

BOLTS INSTALLED IN CONCRETE

- IOR PERIODICALLY INSPECT INSTALLATION OF BOLTS AND CONTINUOUSLY INSPECT PLACEMENT OF CONCRETE AROUND SUCH BOLTS.

CONCRETE

- IOR CONTINUOUSLY INSPECT THE PLACEMENT OF ALL CONCRETE EXCEPT PERIODIC INSPECTION MAY BE PROVIDED FOR THE PLACEMENT OF NON-STRUCTURAL SLABS ON GRADE.
- SAMPLE CONCRETE: ASTM C172, EXCEPT SLUMP SHALL COMPLY WITH ASTM C94.
- TEST SLUMP: ASTM C143, ONE TEST AT POINT OF TRUCK DISCHARGE FOR 50 CY OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE; ADDITIONAL TESTS REQUIRED WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
- TEST AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, ONE FOR EACH 50 CY PLACED OR FRACTION THEREOF FOR EACH TYPE OF AIR-ENTRAINED CONCRETE.
- TEST CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 50 DEGREES F. (10 DEGREES C.) AND BELOW, AND WHEN 85 DEGREES F. (29 DEGREES C.) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
- TAKE COMPRESSION TEST SPECIMENS: ASTM C31, TAKE ONE SET OF 3 STANDARD CYLINDERS FOR EACH 50 CY OF CONCRETE OR 2000 SQ. FT. OF SLABS & WALLS OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE TAKEN EACH DAY. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
- TEST COMPRESSIVE STRENGTH: ASTM C39; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS.

POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS

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

1. ANCHOR TYPE, SIZE, AND DIMENSIONS.
2. HOLE DIMENSIONS AND CLEANLINESS.
3. ANCHOR SPACING.
4. EDGE DISTANCE.
5. ANCHOR EMBEDMENT.
6. TORQUE VALUE (AS APPLICABLE).
7. ADHESIVE ANCHOR INSTALLER CERTIFICATION (AS APPLICABLE).

POST-INSTALLED ANCHOR TESTING

1. TEST ANCHORS PER THE REQUIREMENTS OF CBC SECTION 1901.3.4 AND ANCHOR'S ICC REPORT AND WITH THE FOLLOWING FREQUENCY:
   A. 100% FOR STRUCTURAL APPLICATIONS WITH THE FOLLOWING EXCEPTIONS:
      a. 10% AT SILL PLATE BOLTING.
      b. 25% AT INTERFACE DOWELS AT CAST-IN-PLACE CONCRETE OR SHOTCRETE WALL OVERLAYS.
      c. SLAB-ON-GRADE COLD JOINT DOWELS WHERE APPROVED BY THE ENGINEER.
   B. 50% FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE (ANCHORS NOT SHOWN ON STRUCTURAL DRAWINGS).
2. TESTING OF ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO DSA. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

TESTING VALUES AS NOTED IN POST-INSTALLED ANC

WOOD FRAMING

PLYWOOD DIAPHRAGMS & SHEARWALLS

- IOR PERIODICALLY INSPECT INSTALLATION OF ANY DIAPHRAGMS & SHEARWALLS INCLUDING NAILING OF PLYWOOD, BOLTING OF ANCHORS & HOLDOWNS, & NAILING OF STRAPS.

MATERIAL DATA

GENERAL

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING CODE. SEE 'PROJECT DATA'

CONSTRUCTION LIABILITY

THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

CONCRETE & REINFORCING

REINFORCING STEEL

BARS FOR REINFORCING SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706 OR A615. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE 2019 EDITION OF ACI 318. BARS TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706.

CONCRETE

CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE **2019** EDITION OF ACI 301 & 318. CONCRETE SHALL BE READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.

MAXIMUM WATER-CEMENT RATIO, BY WEIGHT

28 DAY COMPRESSIVE STRENGTH	WATER-CEMENT RATIO
3000 PSI CONCRETE	0.50

AT THE CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C260 MAY BE ADDED TO THE CONCRETE TO PROVIDE UP TO A MAXIMUM OF 3% ± 1.5% ENTRAINED AIR. CEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT PER ASTM DESIGNATION C150, TYPE II. NO MORE THAN 15% BY WEIGHT OF CEMENT MAY BE REPLACED BY FLY ASH CONFORMING TO ASTM C618, CLASS N OR F.

CONCRETE ELEMENT	MIN 28 DAY COMPRESSIVE STRENGTH	MAX SIZE AGGREGATE (INCHES)	SLUMP (INCHES)
FOOTINGS	3000	1-1/2	3
SLAB ON GRADE	3500	1	4

SLUMP WILL BE MEASURED AT THE TRUCK DISCHARGE. SLUMPS NOTED ABOVE ARE FOR CONCRETE WITHOUT ADMIXTURES TO BE CONSOLIDATED USING VIBRATION. FORMWORK CONSTRAINTS, CONGESTION OF REBAR, AND PUMPING OF CONCRETE MAY REQUIRE INCREASED SLUMP BEYOND THE SLUMP LISTED ABOVE. THE CONTRACTOR SHALL ADJUST THE SLUMP UP TO 8" MAX USING ADMIXTURES AS NECESSARY TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. ALL ADMIXTURES SHALL BE NOTED IN THE SUBMITTED MIX DESIGN AND ARE SUBJECT TO THE ENGINEER'S REVIEW. THE SPECIAL INSPECTOR SHALL BE PROVIDED WITH A BATCH TICKET AND WEIGHT TAG UPON DELIVERY OF EACH LOAD OF CONCRETE.

ALL CONCRETE SHALL BE PLACED WITH MECHANICAL VIBRATION UNLESS NOTED OTHERWISE.

EXPOSURE CATEGORIES AND CLASSES FOR ALL CONCRETE TYPES ARE AS FOLLOW:

A. FREEZING AND THAWING:	CLASS: F0
B. SULFATE EXPOSURE:	CLASS: S0
C. IN CONTACT WITH WATER:	CLASS: W0
D. CORROSION PROTECTION OF REINFORCEMENT:	CLASS: C1

POST INSTALLED ANCHORS

EXISTING CONCRETE SURFACES SHALL BE SCANNED PER "AS-BUILT INFORMATION" ON **S0.01** TO ENSURE EXISTING REINFORCEMENT REMAINS UNDAMAGED DURING POST INSTALLED ANCHOR INSTALLATION.

ADHESIVE ANCHORING SYSTEMS FOR CONCRETE

ADHESIVE ANCHORING SYSTEMS SHALL BE:

- SIMPSON SET-3G (ICC ESR-4057)
- APPROVED EQUAL.

INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH CBC 1910A.5.4 AND THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.

WOOD FRAMING

SAWN LUMBER

DOUGLAS FIR COAST REGION, CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE No. 17, AS AMENDED TO DATE.

MOISTURE CONTENT SHALL BE LESS THAN 19% FROM THE TIME OF INSTALLATION ONWARD.

1. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, No. 1 & BETTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, SELECT STRUCTURAL, WHERE NOTED ON THE DRAWINGS.
3. 6x, & LARGER BEAMS, No. 1 WHEN BEAM WIDTH IS NOT MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 6 BELOW.
4. 2x, 3x, 4x, LEDGERS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. 4x4 AND 4x6 POSTS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. 6x6 AND LARGER POSTS, DENSE No. 1, WHEN POST WIDTH IS MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 3 ABOVE.
7. 2x, 3x, STUDS AND BLOCKING, No. 1
8. FOUNDATION PLATES: PRESSURE TREATED DOUGLAS FIR No. 1.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE FOHC.

WOOD FRAMING PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

FASTENERS AND BOLT ASSEMBLIES IN PRESSURE TREATED LUMBER SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A 153.

BOLT HOLES SHALL BE 1/32" MIN TO 1/16" MAX LARGER THAN THE BOLT DIAMETER, U.N.O.

PLYWOOD

ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-19, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ALL PLYWOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE PLYWOOD.

ALL UNBLOCKED PLYWOOD EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED WITH PLYWOOD CLEATS OR PLYWOOD CLIPS.

ROOF PLYWOOD:

- 5 PLY EXPOSURE 1, CDX, SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.

WALL PLYWOOD:

- 3 PLY EXPOSURE 1, CDX, SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

PRESERVATIVE TREATMENT FOR WOOD

PRESERVATIVE TREATMENT FOR WOOD SHALL BE WATER-BORNE, NON-ARSENIC, NON-CHROMIUM TYPE COMPLYING WITH AWPA STANDARD U1. PRESERVATIVE TREATMENT SHALL NOT CONTAIN PENTACHLOROPHENOL, ARSENIC COMPOUNDS, OR CREOSOTE. AFTER TREATMENT, RE-DRY WOOD TO BE USED IN ENCLOSED LOCATIONS TO A MOISTURE CONTENT OF 19% OR LESS. RETREAT ALL FIELD CUT ENDS AND SURFACES. FASTENERS AND BOLT ASSEMBLIES IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN COMPLIANCE WITH ASTM A153.

FASTENERS FOR EXTERIOR WALL COVERINGS

IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2304.10.2.1, FASTENERS AND BOLT ASSEMBLIES USED AT EXTERIOR WALL COVERINGS SHALL BE HOT DIPPED ZINC COATED GALVANIZED IN ACCORDANCE WITH ASTM A153. FASTENERS AT EXTERIOR WALL COVERINGS MAY ALSO BE MECHANICALLY DEPOSITED ZINC COATED IN ACCORDANCE WITH ASTM B695.

LIGHT GAGE METAL CONNECTORS

ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON STRING TIE CONNECTORS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER TO BE HOT DIPPED ZINC-COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A653 OR ASTM A123. ALL CONNECTORS SHALL BE INSTALLED PER MNFR SPECIFICATIONS TO MAX CAPACITY.

SUBMITTALS

SUBMITTALS FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:

1. REINFORCING STEEL SHOP DRAWINGS
2. MIX DESIGNS

NOTES:

1. CONTRACTOR SHALL ELECTRONICALLY SUBMIT SUBMITTALS FOR REVIEW OR SHALL SUBMIT A MINIMUM OF TWO SETS OF HARD PRINTS FOR REVIEW.
2. THE GENERAL CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE SHOP DRAWING IS COORDINATED AMONG ALL CONSTRUCTION TRADES AND THAT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
3. CONTRACTOR SHALL SUBMIT IN WRITING, ANY REQUEST FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
4. REVISIONS FROM PREVIOUS SUBMITTALS SHALL BE CLEARLY MARKED BY CLOUDS.
5. FABRICATION SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

CONTRACTOR'S STATEMENT OF RESPONSIBILTY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC OR WIND-FORCE RESISTING SYSTEM OR COMPONENT SHALL ISSUE A WRITTEN STATEMENT OF RESPONSIBILITY IN COMPLIANCE WITH SECTION 1704A.4 OF THE CURRENT GOVERNING EDITION OF THE CALIFORNIA BUILDING CODE. THE CONTRACTORS STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

PROJECT DATA

1. PLANS AND CALCULATIONS FOR THE STRUCTURAL DESIGN WERE BASED UPON:
   - GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE W/ CHAPTER A AMENDMENTS
2. VERTICAL LOADS:
   ROOF LIVE LOAD = 20 PSF [REDUCED PER CODE]
3. EARTHQUAKE DESIGN DATA:
   EQUIVALENT LATERAL FORCE PROCEDURE
   $V = \frac{S_{DS} I}{R} W$
   $S_S = 0.600$; $S_1 = 0.232$
   $S_{DS} = 0.528$; $S_{D1} = 0.263$
   I = 1.25; RISK CATEGORY III
   SITE CLASS = D; SEISMIC DESIGN CAT = D
   SEISMIC RESISTING SYSTEM: WOOD SHEAR WALLS
   R = 6.5 ; Ω_0 = 3.0 ; C_d = 4
   V = 0.102 W [LRFD]
4. WIND DESIGN DATA:
   BASIC WIND SPEED = 101 MPH
   RISK CATEGORY III
   WIND EXPOSURE = C
   INTERNAL PRESSURE COEFFICIENT = +0.18, -0.18
   DESIGN WIND PRESSURE = 18.5 PSF
   WALL COMPONENTS AND CLADDING PRESSURE = +21.8, -23.7 (ZONE4) -29.2 (ZONE 5) PSF [LRFD]
   ROOF COMPONENTS AND CLADDING PRESSURE = +16.0, -20.0 (ZONE 1') -34.8 (ZONE 1) -45.9 (ZONE 2) -62.5 (ZONE 3) PSF [LRFD]

   NOTE: COMPONENTS & CLADDING PRESSURES ABOVE ARE WORST CASE PRESSURES BASED ON 10 SF TRIBUTARY AREA AND MAY BE REDUCED PER ASCE 7. POSITIVE AND NEGATIVE PRESSURES SIGNIFY WIND ACTING TOWARD AND AWAY FROM SURFACES, RESPECTIVELY.
5. FOUNDATION DESIGN CRITERIA:
   BEARING PRESSURES PER CBC TABLE 1806A.2 PRESUMPTIVE LOAD BEARING VALUES:
   DL + LL 1500 PSF
   TOTAL LOAD 2000 PSF (WHEN USING CBC ALTERNATIVE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS INCLUDING WIND OR SEISMIC LOADS)
8. SEISMIC JOINT BETWEEN NEW BUILDING AND (E) BUILDING SHALL HAVE A MINIMUM MOVEMENT CAPABILITY IN ANY DIRECTION AS SHOWN BELOW:
   ROOF: 3.5"

AS-BUILT INFORMATION

THESE PLANS ARE BASED ON AS-BUILT INFORMATION PROVIDED BY THE **DISTRICT**. TO ACCURATELY CONSTRUCT THIS UPGRADE, THE CONTRACTOR MUST INTERACT WITH THE EXISTING STRUCTURE. PLEASE NOTE THE FOLLOWING:

1. THE CONTRACTOR MAY OBTAIN AS-BUILT DOCUMENTATION FROM THE **DISTRICT** PRIOR TO BIDDING AND CONSTRUCTION OF THESE PLANS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

BRACING AND SHORING

1. THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION SHALL BE MAINTAINED AT LEVELS GENERALLY ACCEPTABLE WITHIN THE CONSTRUCTION INDUSTRY BY THE USE OF BRACING AND SHORING UNTIL THE PROPOSED STRUCTURE MODIFICATIONS ARE COMPLETED. IN NO CASE SHALL THE EXISTING STRUCTURE BE ALLOWED TO BECOME UNSAFE DURING CONSTRUCTION.
2. THE BRACING AND SHORING SYSTEMS REQUIRED TO PROVIDE TEMPORARY SUPPORT OF THE EXISTING STRUCTURE DURING CONSTRUCTION SHALL BE DESIGNED TO SUPPORT THE DEAD, LIVE, SOIL, EARTHQUAKE AND WIND LOADS THAT MAY BE IMPOSED ON THE STRUCTURE DURING CONSTRUCTION IN ACCORDANCE WITH INDUSTRY STANDARDS AND GENERALLY ACCEPTED ENGINEERING PRINCIPLES.
3. THE CONTRACTOR SHALL SUBMIT PROPOSED SHORING AND BRACING SYSTEMS TO THE ENGINEER FOR REVIEW. THE SUBMITTAL WILL BE REVIEWED ONLY IN SO FAR AS THE DETAILS AFFECT THE CHARACTER OF THE FINISHED WORK, BUT THE DETAILS OF DESIGN WILL BE LEFT TO THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE SUCCESSFUL COMPLETION OF THE WORK.
4. NO CONSTRUCTION OF THE BRACING OR SHORING SYSTEMS, DEMOLITION FOR ITS CONSTRUCTION OR ORDERING MATERIALS SHALL TAKE PLACE UNTIL THE CONTRACTOR HAS RECEIVED REVIEWED SUBMITTALS BY THE ENGINEER.
5. THE SUBMITTALS SHALL SHOW LAYOUT, SIZE OF MEMBERS, CONNECTION DETAILS AND CONSTRUCTION SEQUENCE FOR ALL BRACING AND SHORING SYSTEMS. THE SUBMITTALS SHALL BE ACCOMPANIED BY STRUCTURAL CALCULATIONS SIGNED BY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA. THE ENGINEER SHALL ALSO PROVIDE A LETTER STATING THAT HE/SHE HAS REVIEWED THE SUBMITTALS FOR COMPLETENESS AND SHALL PERFORM FIELD VISITS AS REQUIRED IN ORDER TO CHECK GENERAL CONFORMANCE OF THE CONSTRUCTION TO HIS CALCULATIONS.
6. THE CONTRACTOR SHALL PROVIDE STRUCTURAL CALCULATIONS SIGNED BY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA JUSTIFYING THE USE OF ANY PROPOSED CONSTRUCTION EQUIPMENT LOADING IMPOSED ON THE EXISTING STRUCTURE.

GENERAL NOTES

1. CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS.
2. DO NOT SCALE DRAWINGS. SCALE SHOWN FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL AND MEP CONTRACT DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED PRIOR TO BIDDING AND PROCEEDING WITH THE WORK.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS REQUIRED TO COMPLETE THE PROJECT. NO PORTION OF THE STRUCTURE SHALL BE CONSIDERED TO BE SELF SUPPORTING UNTIL THE ENTIRE VERTICAL AND LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
6. THE CONTRACTOR SHALL PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN SOIL STABILITY.
7. CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
8. CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, U.N.O.
9. CENTERLINES OF FOUNDATION GRADE BEAMS COINCIDE WITH CENTERLINES OF WALLS, U.N.O.
10. CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, U.N.O.
11. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PROPOSED FOUNDATION CONSTRUCTION JOINT LOCATIONS, DETAILS, AND THE PLACEMENT SEQUENCE FOR THE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO PROCEEDING WITH WORK.
12. NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
13. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
14. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYPICAL, U.N.O.

PROJECT DESCRIPTION

PROJECT CONSISTS OF MINOR STRUCTURAL WORK IN EXISTING WOOD FRAMED ADMIN BUILDING AND CONSTRUCTION OF A NEW WOOD FRAMED ENTRY WAY CANOPY

LEVELS:	1 STORY
FOUNDATION:	CONTINUOUS GRADE BEAMS AND ISOLATED COLUMN FOUNDATIONS & CONCRETE SLAB ON GRADE
ROOF SYSTEM:	SAWN LUMBER OVER BEARING WALLS AND OCCASIONAL STEEL BEAMS
LATERAL FORCE RESISTING SYSTEM:	WOOD SHEARWALLS
DIAPHRAGMS:	SHEATHING
CHORDS & COLLECTORS:	TOP PLATE
MISC:	ENTRY WAY BUILDING IS SEISMICALLY SEPARATED FROM EXISTING STRUCTURE

STRUCTURAL OBSERVATION

REQUIRED OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD

1. FOUNDATION REINFORCING.
2. ROUGH FRAMING, TRUSSES AND JOISTS.
3. PLYWOOD SHEATHING AND NAILING.

CONTRACTOR SHALL NOTIFY ENGINEER A MINIMUM OF 2 WORKING DAYS PRIOR TO THE TIME WHEN HIS PRESENCE IS REQUIRED. PLEASE NOTE THAT THESE OBSERVATIONS ARE INDEPENDENT OF INSPECTIONS REQUIRED BY THE BUILDING DEPARTMENT.

SHEET INDEX

S0.01	PROJECT INFORMATION
S1.01	TYPICAL DETAILS No. 1
S1.02	TYPICAL DETAILS No. 2
S1.03	TYPICAL DETAILS No. 3
S2.0	ENTRANCE CANOPY FOUNDATION & ROOF FRAMING PLAN
SAAS2.0	ADD ALTERNATE #1

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DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

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Project Name:

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No. S6623
EXP. 3/31/27
STRUCTURAL
STATE OF CALIFORNIA

Sheet Title:

PROJECT INFORMATION

Job No.:

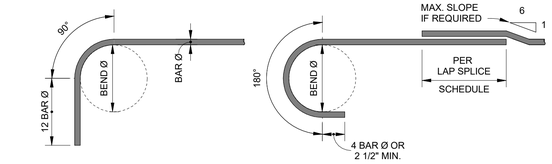
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Sheet No.:

S0.01

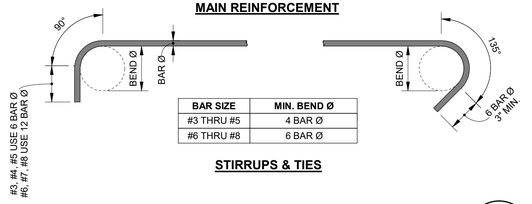
Release: Project Status Date: 06/05/12

1" = 40'-0" 1" = 30'-0" 1" = 20'-0" 1/8" = 1'-0" 1/4" = 1'-0"



BAR SIZE	MIN. BEND Ø
#3 THRU #8	6 BAR Ø
#9 THRU #11	8 BAR Ø

MAIN REINFORCEMENT



BAR SIZE	MIN. BEND Ø
#3 THRU #5	4 BAR Ø
#6 THRU #8	6 BAR Ø

STIRRUPS & TIES

REINFORCING BAR HOOKS

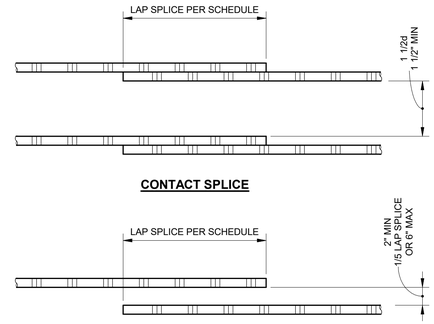
1 1/2" = 1'-0"

1 S1.01

MINIMUM LAP SPLICE SCHEDULE

BAR SIZE	POSITION	LAP SPLICE LENGTH IN INCHES					
		F'c ≤ 3500 PSI		F'c = 4000 PSI		F'c = 5000 PSI	
		CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	TOP	24	28	24	25	24	24
	BOTTOM	24	24	24	24	24	24
#4	TOP	29	38	25	33	24	29
	BOTTOM	24	29	24	25	24	24
#5	TOP	36	47	31	41	28	36
	BOTTOM	28	36	24	31	24	28
#6	TOP	43	56	37	49	34	44
	BOTTOM	33	43	29	37	26	34
#7	TOP	63	81	54	71	49	63
	BOTTOM	48	63	42	54	38	49
#8	TOP	72	93	62	81	56	72
	BOTTOM	55	72	48	62	43	56
#9	TOP	81	105	70	91	63	81
	BOTTOM	62	81	54	70	48	63
#10	TOP	91	118	79	102	71	92
	BOTTOM	70	91	61	79	54	71
#11	TOP	101	131	87	114	78	102
	BOTTOM	78	101	67	87	60	78

NOTES:
1. LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. LAP SPLICES SHALL BE CONTACT (CLASS B) FOR CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE.
3. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF FRESH CONCRETE BELOW THE BAR.
4. WHEN TWO BARS OF DIFFERENT SIZE ARE SPLICED, USE THE LARGER LAP LENGTH.
5. STAGGER LAP SPLICES WHERE POSSIBLE. WHERE CLASS A SPLICES ARE CALLED OUT ON THE DRAWINGS, STAGGER LAP SPLICES 24 INCHES FOR ADJACENT BARS.
6. LAP SPLICES NOTED ARE FOR NORMAL WEIGHT CONCRETE. LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR LIGHTWEIGHT CONCRETE.
7. NO SPLICES ARE ALLOWED FOR #14 AND #18 REINFORCEMENT.
8. BAR DEVELOPMENT LENGTHS EQUAL CLASS A LAP SPLICE LENGTHS.
9. ENTIRE BUNDLED BARS SHALL NOT BE LAP SPLICED. LAP SPLICES OF INDIVIDUAL BARS WITHIN THE BUNDLE SHALL NOT OVERLAP.
10. AT CONTRACTOR'S OPTION, MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR LAP SPLICES. MECHANICAL COUPLERS SHALL HAVE AN ICC REPORT AND SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.



LAP SPLICE SCHEDULE FOR CONCRETE

NO SCALE

2 S1.01

MINIMUM CONCRETE COVER SCHEDULE

ELEMENT	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER #6 AND LARGER	 1 1/2" 2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS & JOISTS: #11 AND SMALLER #14 AND #18 BEAMS & COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS SHELLS & FOLDED PLATE MEMBERS #5 AND SMALLER #6 AND LARGER	 3/4" 1 1/2" 1 1/2" 1/2" 3/4"

NOTES:
1. COVERS NOTED SHALL BE USED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS.
2. COVERS NOTED ARE FOR CAST-IN-PLACE, NON-PRESTRESSED MEMBERS.
3. MINIMUM CLEAR COVER FOR BUNDLED BARS SHALL BE THE LESSER OF THE EQUIVALENT DIAMETER OF THE BUNDLE AND 2".

MINIMUM CONCRETE COVER SCHEDULE

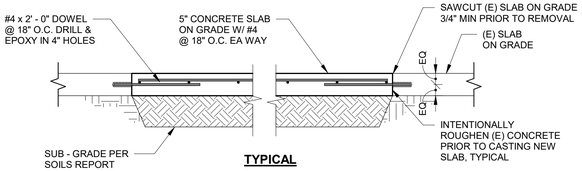
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3 S1.01

EXCAVATION PARALLEL TO FTG

NO SCALE

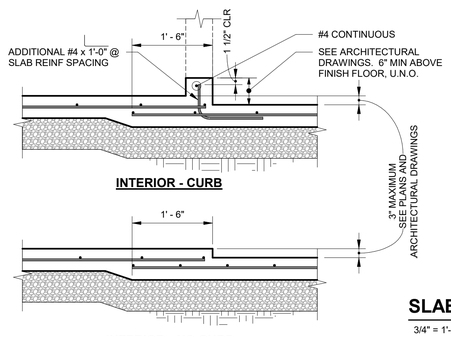
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SLAB INFILL

3/4" = 1'-0"

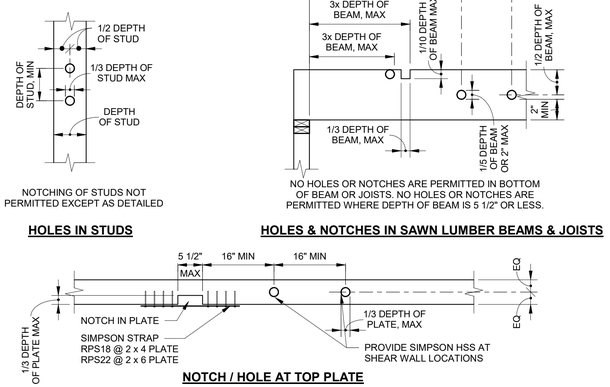
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SLAB DEPRESSION

3/4" = 1'-0"

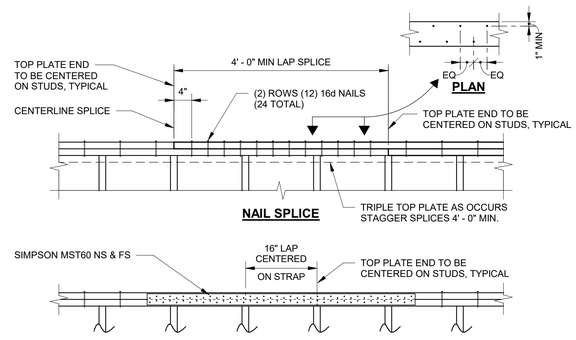
8 S1.01



NOTCH/HOLE IN FRAMING

NO SCALE

6 S1.01

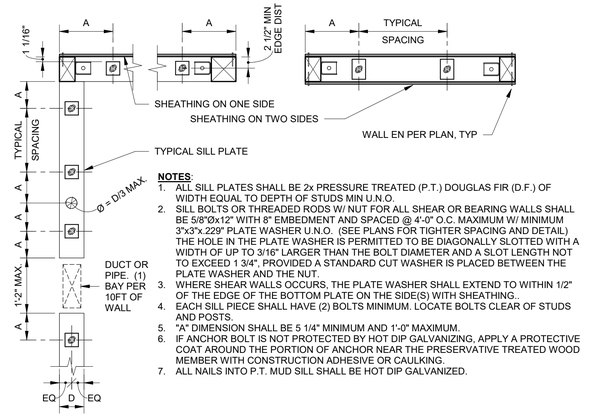


NOTE:
1. USE NAIL SPLICE UNLESS NOTED OTHERWISE ON PLANS.
2. AT PLYWOOD WALLS, STRAP MAY BE INSTALLED OVER PLYWOOD AND TAKE PLACE OF EDGE NAILING.

PLATE SPLICE DETAIL

NO SCALE

5 S1.01



NOTES:
1. ALL SILL PLATES SHALL BE 2x PRESSURE TREATED (P.T.) DOUGLAS FIR (D.F.) OF WIDTH EQUAL TO DEPTH OF STUDS MIN U.N.O.
2. SILL BOLTS OR THREADED RODS W/ NUT FOR ALL SHEAR OR BEARING WALLS SHALL BE 5/8"Ø x 12" WITH 8" EMBEDMENT AND SPACED @ 4'-0" O.C. MAXIMUM W/ MINIMUM 3"x3"x.229" PLATE WASHER U.N.O. (SEE PLANS FOR TIGHTER SPACING AND DETAIL) THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
3. WHERE SHEAR WALLS OCCURS, THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING..
4. EACH SILL PIECE SHALL HAVE (2) BOLTS MINIMUM. LOCATE BOLTS CLEAR OF STUDS AND POSTS.
5. "A" DIMENSION SHALL BE 5 1/4" MINIMUM AND 1'-0" MAXIMUM.
6. IF ANCHOR BOLT IS NOT PROTECTED BY HOT DIP GALVANIZING, APPLY A PROTECTIVE COAT AROUND THE PORTION OF ANCHOR NEAR THE PRESERVATIVE TREATED WOOD MEMBER WITH CONSTRUCTION ADHESIVE OR CAULKING.
7. ALL NAILS INTO P.T. MUD SILL SHALL BE HOT DIP GALVANIZED.

SILL PLATE AND ANCHOR BOLT

NO SCALE

9 S1.01

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DATE: 06/08/2026

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Fresno Unified School District

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2309 TULARE ST
FRESNO, CA

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Sheet Title:

TYPICAL DETAILS No. 1

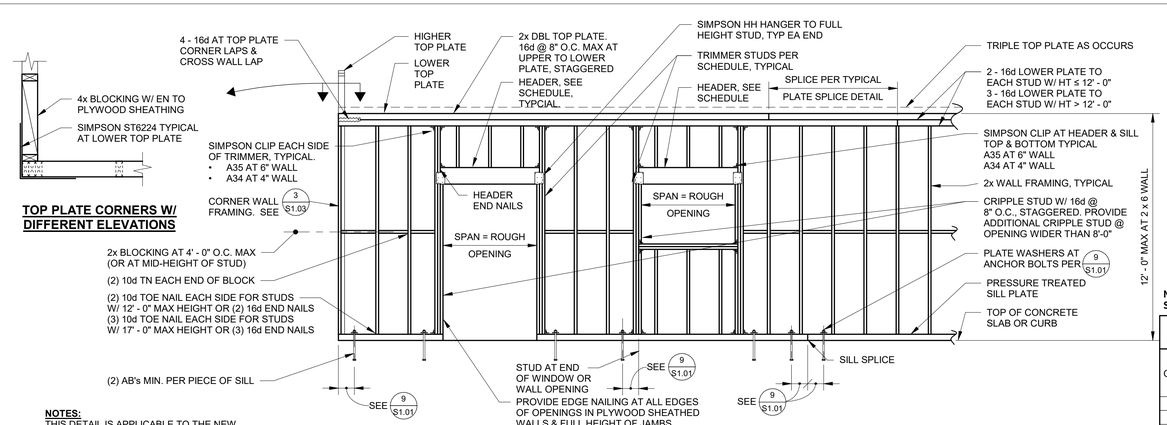
Job No.:

5599.2

Sheet No.:

S1.01

Release: Project Status Date: 06/05/12



TOP PLATE CORNERS W/ DIFFERENT ELEVATIONS

NOTES:
THIS DETAIL IS APPLICABLE TO THE NEW EXTERIOR WALLS AT THE ENTRANCE CANOPY AND THE OPENINGS IN THE ADMIN BUILDING GRIDS 2 AND 4 BEARING WALLS

STUDWALL FRAMING

NO SCALE

1 S1.02

NOTE:
SEE DETAIL 14/A8.03 FOR TOP OF WALL SUPPORT DETAIL.

STUD WALL FRAMING SCHEDULE[1]
DEFLECTION LIMIT = L/360 (BEARING); L/240 (NON-BEARING)

OPENING SIZE	BEARING WALL HEADER SIZE 2 x 6 WALL	SILL SIZE	TRIMMER	HEADER END NAILS
4' - 0" MAX	6 x 6	(2) 2x	(2) 2x	4 - 16d EA END
6' - 0" MAX	6 x 8	(2) 2x		4 - 16d EA END
8' - 0" MAX	6 x 10	(2) 2x	(3) 2x	4 - 16d EA END
10' - 6" MAX	6 x 12	(3) 2x	6x[3]	4 - 16d EA END

1. SCHEDULE BASED ON 30 PSF WIND LOAD (BEARING)
2. NOT USED
3. @ 2x6 WALLS

WOOD - ANCHOR BOLTS AT WOOD STUD

NO SCALE

2 S1.02

PERPENDICULAR TO STUD **PARALLEL TO STUD**

CEILING JOIST SCHEDULE

JOIST	MAX SPAN INT. COND. GYP BOARD	MAX SPAN EXT. COND. PLASTER	LEDGER NAILS	BLOCKING
2x6 @ 24" oc	10'-0"	9'-0"	(2) 16d	@ MIDSPAN
2x8 @ 24" oc	14'-0"	12'-0"	(3) 16d	@ 1/3 PTS
2x10 @ 24" oc	16'-0"	15'-0"	(3) 16d	@ 1/3 PTS

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR CEILING LOCATIONS AND FRAMING DETAILS NOT NOTED.
2. RUN WALL PLYWOOD CONTINUOUS PAST LEDGER AS OCCURS.
3. USE SIMPSON LUS HANGERS OR EQUIVALENT
4. SEE PLAN FOR CEILING JOIST SIZE @ STORAGE AREAS.
5. DESIGN LOADS: DL = 8PSF AT GYP BD, 13 PSF AT PLASTER, LL = 10 PSF, W = VARIES AT FIRE RATED CONSTRUCTION, SPACE CEILING JOISTS @ 16" OC WHERE REQUIRED PER ARCH DRAWINGS.

WOOD CEILING JOIST FRAMING DETAIL

NO SCALE

3 S1.02

HEADER SCHEDULE

OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT

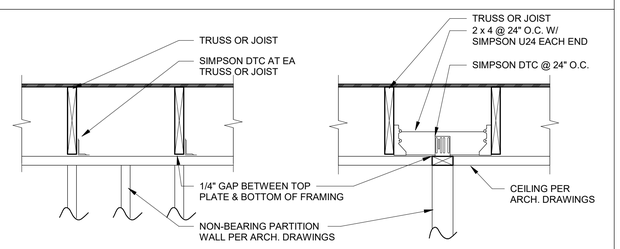
NOTE:
1. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERNOVER THESE TYPICAL SCHEDULES/DETAILS.
2. NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.

NOTES:
THIS DETAIL IS APPLICABLE TO THE NEW INTERIOR NON BEARING WALLS AT THE ADMIN BUILDING UNO

INTERIOR NON-BEARING PARTITION WALL FRAMING

NO SCALE

4 S1.02



PARTITION PERPENDICULAR TO FRAMING PARTITION PARALLEL TO FRAMING

AT BASE

MINIMUM NAILING SCHEDULE

CONNECTION	NAILING[1]
1. JOIST TO SILL GIRDER, TOENAIL 8 - INCH JOIST OR LESS FOR EACH ADDITIONAL 4 INCHES IN DEPTH OF JOIST	 3 - 16d 1 - 16d
2. BRIDGING TO JOIST, TOENAIL EACH END a. BLOCKING BETWEEN JOISTS OR RAFTERS - TO JOIST OR RAFTERS - TOENAILS EACH SIDE, EACH END b. BLOCKING BETWEEN STUDS, EACH END	2 - 8d 2 - 10d[12] 2 - 10d TOENAILS OR 2 - 16d
3. 1" x 6" (25mm x 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.	2 - 8d
4. WIDER THAN 1" x 6" (25mm x 152mm) SUBFLOOR TO EACH JOIST, FACE NAIL.	3 - 8d
5. 2" (51mm) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2 - 16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL. SOLE PLATE TO JOIST BLOCKING, AT BRACED WALL PANELS.	16d AT 16" (406mm) O.C. 3 - 16d PER 16" (406mm)
7. TOP PLATE TO STUD, END NAIL.	2 - 16d
8. STUD TO SOLE PLATE.	4 - 8d, TOENAIL OR 2 - 16d, END NAIL
9. DOUBLE STUDS, FACE NAIL.	16d AT 24" (610mm) O.C.
10. DOUBLED TOP PLATES, TYPICAL FACE NAIL. DOUBLED TOP PLATES, LAP SPLICE.	16d AT 16" (406mm) O.C. 8 - 16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3 - 8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" (152mm) O.C.
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL.	2 - 16d
14. CONTINUOUS HEADER, TWO PIECES.	16d AT 16" (406mm) O.C. ALONG EACH EDGE
15. CEILING JOISTS TO PLATE, TOENAIL.	3 - 8d
16. CONTINUOUS HEADER TO STUD, TOENAIL.	4 - 8d
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL.	3 - 16d
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL.	3 - 16d
19. JOIST OR RAFTERS AT ALL BEARINGS - TOENAILS, EACH SIDE.	3 - 8d
20. 1" (25mm) BRACE TO EACH STUD AND PLATE, FACE NAIL.	2 - 8d
21. 1" x 8" (25mm x 203mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL.	3 - 8d
22. WIDER THAN 1" x 8" (25mm x 203mm) SHEATHING TO EACH BEARING, FACE NAIL.	3 - 8d
23. BUILT - UP CORNER STUDS.	16d AT 24" (610mm) O.C.
24. BUILT - UP GIRDER AND BEAMS.	20D AT 32" (813mm) O.C. AT TOP AND BOTTOM AND STAGGERED 2 - 20d AT ENDS AND AT EACH SPLICE
25. 2" (51mm) PLANKS	2 - 16d AT EACH BEARING
26. COLLAR TIE TO RAFTER, FACE NAIL.	3 - 10d
27. JACK RAFTER TO HIP.	3 - 10d, TOENAIL OR 2 - 16d, FACE NAIL
28. ROOF RAFTER TO 2x RIDGE BEAM	2 - 10d, TOENAIL OR 2 - 16d, FACE NAIL
29. JOIST TO BAND JOIST, FACE NAIL	3 - 16d
30. LEDGER STRIP, FACE NAIL.	3 - 16d
31. WOOD STUCTURAL PANELS AND PARTICLEBOARD:[2] SUBFLOOR AND WALL SHEATHING (TO FRAMING): 1/2" (12.7 mm) AND LESS 19/32" - 3/4" (15mm - 19mm) 7/8" - 1" (22mm - 25mm) COMBINATION SUBFLOOR - UNDERLAYMENT (TO FRAMING): 3/4" (19mm) AND LESS 7/8" - 1" (22mm - 25mm) 1 1/8" - 1 1/4" (29mm - 32mm)	 6d[3] 8d OR 6d[5] 8d[3] 10d OR 8d[3] 6d[5] 8d[5] 10d OR 8d
32. PANEL SIDING (TO FRAMING)[2]: 1/2" (12.7mm) AND LESS 5/8" (16mm)	 6d[6] 8d[6]
33. FIBERBOARD SHEATHING: 1/2" (12.7mm) 25/32" (20mm)	 No. 11 ga.[8] 6d[4] No. 16 ga.[8] No. 11 ga.[8] 8d[9] No. 16 ga.
34. INTERIOR PANELING: 1/4" (6.4mm) 3/8" (9.5mm)	 4d[10] 6d[11]

1 COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
2 NAILS SPACED AT 6 INCHES (152mm) ON CENTER AT EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219mm) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING MAY BE COMMON.
3 COMMON OR DEFORMED SHANK.
4 COMMON.
5 DEFORMED SHANK.
6 CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.10.2.1.
7 FASTENERS SPACED 3 INCHES (76mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152mm) ON CENTER AT INTERMEDIATE SUPPORTS.
8 CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH-DIAMETER (11mm) HEAD AND 11/2-INCH (38mm) LENGTH FOR 1/2-INCH (12.7mm) SHEATHING AND 13/4-INCH (44mm) LENGTH FOR 25/32-INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.10.2.1.
9 CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH (11mm) CROWN AND 11/8-INCH (29mm) LENGTH FOR 1/2-INCH (12.7mm) SHEATHING AND 11/2-INCH (38mm) LENGTH FOR 25/32-INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.10.2.1.
10 PANEL SUPPORTS AT 16 INCHES (406mm) [20 INCHES (508mm) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OF FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.
11 PANEL SUPPORTS AT 24 INCHES (610mm). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.
12 WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO GRAIN SHALL BE USED INSTEAD OF TOENAILS.

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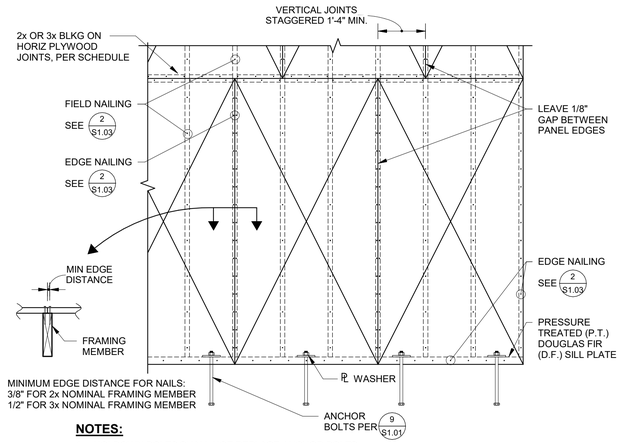
Sheet Title:
TYPICAL DETAILS No. 2

Job No.:
5599.2

Sheet No.:
S1.02

Release: Project Status Date: 06/05/12

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NOTES:

1. HOLDOWN BOLTS SHALL NOT REPLACE ANCHOR BOLTS.
2. RETIGHTEN ALL ANCHOR BOLTS AND HOLDOWN NUTS PRIOR TO CLOSING FRAMING.
3. NAILS SHALL BE COMMON AND HAVE MIN 1 5/8" PENETRATION INTO HOLDING MEMBER.
4. PREDRILL HOLES AS REQUIRED TO AVOID SPLITTING.
5. MINIMUM PLYWOOD WIDTH IS 12".
6. UPSET THREAD BOLTS ARE NOT PERMITTED.

ELEVATION

SHEARWALL SCHEDULE - WOOD - DSA

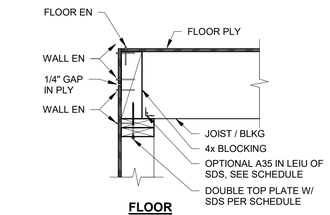
ZONE	ALLOWABLE SHEAR	PLYWOOD	EDGE NAILING	FIELD NAILING	BOLTED PLATE CONNECTION	SCREWED PLATE CONNECTION	BLOCKING	A35 SPACING	REMARKS
A	260 PLF	15/32" CDX	8d @ 6" OC	8d @ 12" OC	AB @ 48" OC	1/4" x 6" SDS @ 16" OC	2x	24" OC	1, 3, 4
B	380 PLF	15/32" CDX	8d @ 4" OC	8d @ 12" OC	AB @ 32" OC	1/4 x 6" SDS @ 12" OC	2x	16" OC	2, 3, 4

REMARKS:

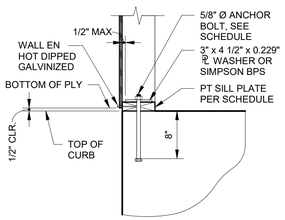
1. INSTALL 2x OR WIDER FRAMING & BLOCKING AT ALL ADJOINING PANEL EDGES.
2. INSTALL 3x OR WIDER FRAMING & BLOCKING WITH STAGGERED EDGE NAILING AT ALL ADJOINING PANEL EDGES. STRUCTURALLY ACCEPTABLE TO USE (2) 2x INSTEAD OF 3x AT ADJOINING PANEL EDGES. NAIL (2) 2x TOGETHER WITH 16d STAGGERED @ WALL EDGE NAIL SPACING.
3. FASTENERS SHALL BE COMMON.
4. PLYWOOD SHALL BE EDGE FASTENED AT ALL PANEL EDGES, TOP PLATES, SILL PLATES, HOLDOWN STUDS, WOOD POSTS AND BLOCKING LOCATIONS AS WELL AS OTHER LOCATIONS SHOWN IN THE DRAWINGS.

PLYWOOD SHEARWALL

NO SCALE — 1 / S1.03



FLOOR

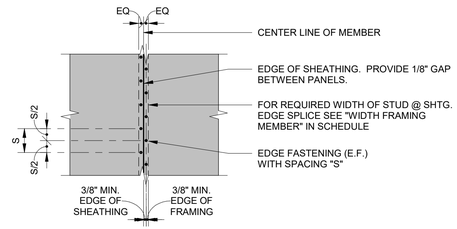


FOUNDATION

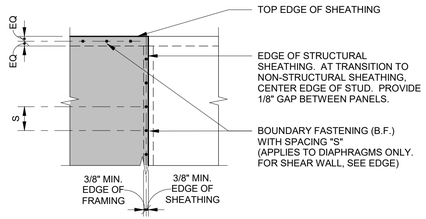
TYPICAL EXTERIOR WALL

NOTES:

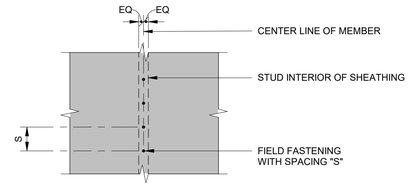
1. FRAMING AND CONNECTIONS SHOWN ARE FOR LATERAL SYSTEM LOAD TRANSFER ONLY. SEE PLANS AND DETAILS FOR ADDITIONAL VERTICAL SUPPORT FRAMING.
2. PROVIDE STANDARD CUT WASHER BETWEEN NUT & BPS PLATE.



SHEAR PANEL FASTENING AT EDGE/BLOCKING



SHEAR PANEL FASTENING AT BOUNDARY

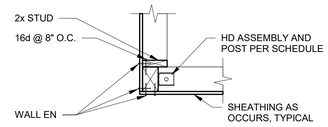


SHEAR PANEL FASTENING AT FIELD/INTERMEDIATE STUD

NOTE: THE FASTENING DESIGNATION 6:6:12 INDICATES (6" O.C. EDGE):(6" O.C. BOUNDARY):(12" O.C. FIELD)

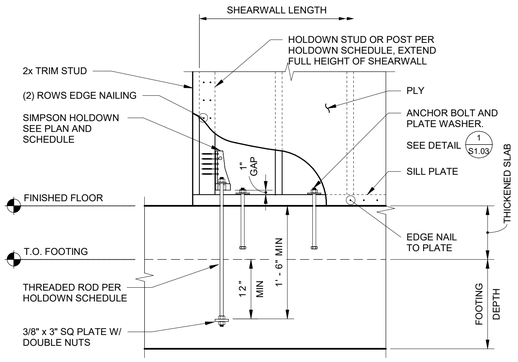
PLY EDGE/BOUNDARY FASTENING

NO SCALE — 2 / S1.03



FRAMING DETAIL

NO SCALE — 3 / S1.03



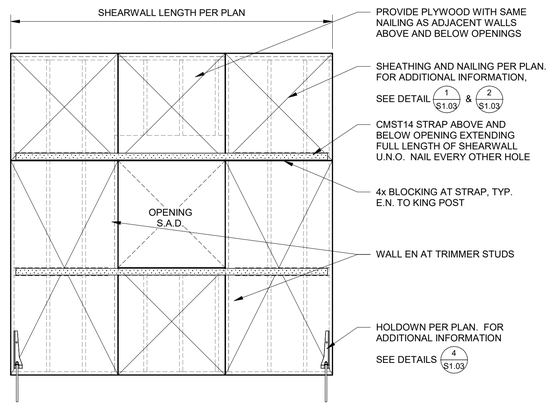
HDU HOLDOWN

HOLDOWN SCHEDULE - SIMPSON STRONG-TIE WOOD - DSA

TYPE	DESCRIPTION	No. OF SDS 1/4x SCREW TO POST	HS THREADED ROD DIAMETER	END POST	SERVICE LOAD CAPACITY - DSA
1	HDUE3-SDS3	7	5/8"	4x6 MIN.	3032#
2	HDUE5-SDS3	10	5/8"	4x6 MIN.	4300#

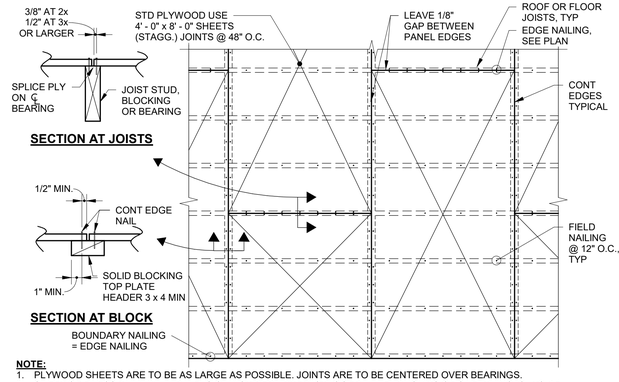
HOLDOWN AT FOOTING

NO SCALE — 4 / S1.03



STRAPPED SHEARWALL ELEVATION

NO SCALE — 5 / S1.03



NOTE:

1. PLYWOOD SHEETS ARE TO BE AS LARGE AS POSSIBLE. JOINTS ARE TO BE CENTERED OVER BEARINGS.
2. SHEET SIZE LESS THAN 24" IN DIMENSION NOT PERMITTED. STAGGER ALL END JOINTS OF SHEATHING. OUTSIDE FACE GRAINS TO RUN PERPENDICULAR TO BEARING. BLOCKING ALL JOINTS AND EDGES.

PLYWOOD DIAPHRAGM FRAMING

NO SCALE — 6 / S1.03

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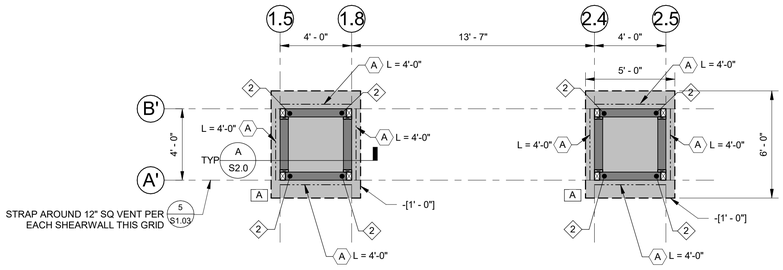
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TYPICAL DETAILS No. 3

Job No.:
5599.2

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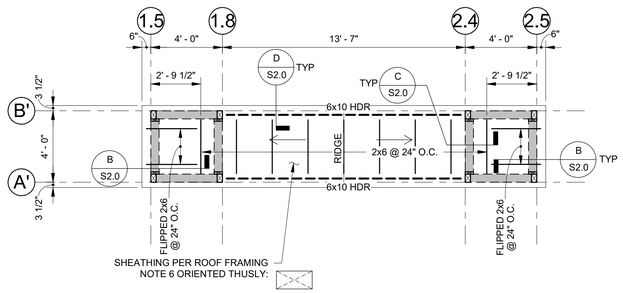
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FOUNDATION PLAN

1/4" = 1'-0"



ROOF FRAMING PLAN

1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01.
2. SEE SHEET S1.01-S1.03 FOR TYPICAL FRAMING DETAILS.
3. BOTTOM OF FOUNDATION EXCAVATIONS SHALL HAVE THE UPPER 6" SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
5. CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
6. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS OR FACE OF SHEATHING, TYPICAL UNLESS NOTED OTHERWISE.
7. STUDWALL CONSTRUCTION SHALL BE:
   2x6 STUDS @ 16" O.C., U.N.O.
   2x6 PT SILL PLATE, U.N.O. 5/8" Ø
   AB @ 48" O.C. W/ 8" MIN EMBED BELOW TOP OF SLAB.
   THE OUTSIDE FACE OF EXTERIOR WALLS SHALL BE SHEATHED W/ 1/2" CDX PLYWOOD. EDGE NAILING SHALL BE 8d @ 6" O.C. AND FIELD NAILING SHALL BE 8d @ 12" O.C., U.N.O.

8. 1 / A101 — INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
9. (1) — INDICATES GRID
10. (A) — INDICATES SHEARWALL CONSTRUCTION WITH NAILING TAG.
11. L = X' - X" — INDICATES SHEAR WALL LENGTH. SEE SCHEDULE. 1 / S1.03
12. INDICATES FOOTING
13. [A] — INDICATES FOUNDATION TAG. SEE SCHEDULE.
14. <1> — INDICATES HOLDOWN TAG. SEE SCHEDULE. 4 / S1.03
15. -[1' - 0"] — INDICATES TOP OF FOOTING ELEVATION BELOW FINISH GRADE. TOP OF FOOTING SHALL BE 1'-0" BELOW FINISH GRADE, UNO

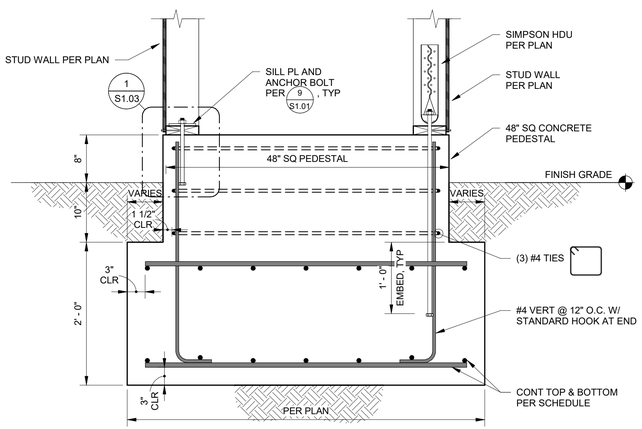
FOOTING SCHEDULE				
TYPE	SIZE	REINFORCING		REMARKS
		LONGITUDINAL	TRANSVERSE	
[A]	6'-0" x 5'-0" x 2'-0"	7 - #6	7 - #6	1

REMARKS:
1. REINFORCING INDICATES TOP AND BOTTOM MAT.

ROOF FRAMING NOTES:

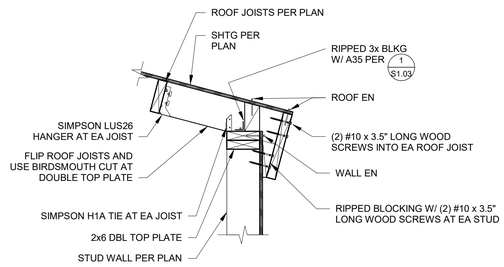
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01.
2. SEE SHEET S1.01-S1.03 FOR TYPICAL FRAMING DETAILS.
3. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
6. ROOF SHEATHING SHALL CONSIST OF 1/2" CDX PLYWOOD W/ 8d @ 6" O.C. AT BOUNDARIES AND EDGES, 8d @ 12" O.C. FIELD NAILING. ALL PLYWOOD EDGES SHALL BE FULLY BLOCKED TYPICAL, U.N.O. SEE 2 / S1.03 FOR MORE INFORMATION.
7. ROOF DIAPHRAGM FASTENING SHALL BE APPROVED BY DSA PRIOR TO COVERING.
8. INSTALL EXTRA 2x6 AT RIDGE LOCATIONS WHERE NECESSARY.
9. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF ROOF OPENINGS.
10. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
11. ALL RAFTER TO BEAM/GIRDER CONNECTIONS SHALL BE W/ SIMPSON HU HANGERS, U.N.O.

1. 1 / A101 — INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
2. (1) — INDICATES GRID
3. INDICATES SHEARWALL BELOW
4. INDICATES DIRECTION OF ROOF SLOPE. S.A.D.



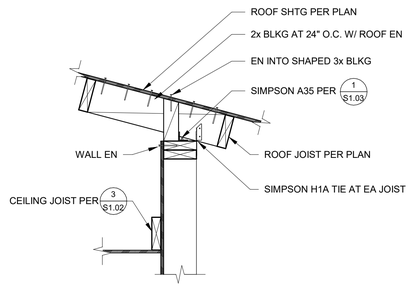
SECTION A / S2.0

1" = 1'-0"



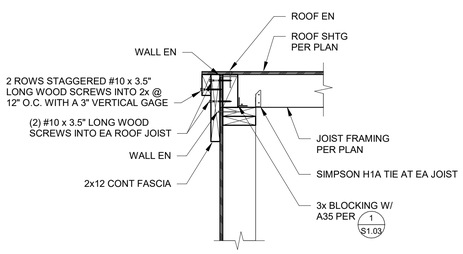
SECTION B / S2.0

1" = 1'-0"



SECTION C / S2.0

1" = 1'-0"



SECTION D / S2.0

1" = 1'-0"

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Sheet Title:

ENTRANCE CANOPY FOUNDATION & ROOF FRAMING PLAN

Job No.:

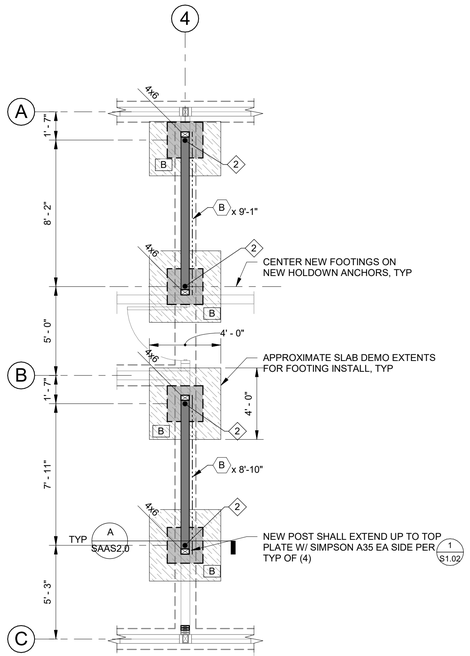
5599.2

Sheet No.:

S2.0

Release: Project Status

Date: 06/05/12



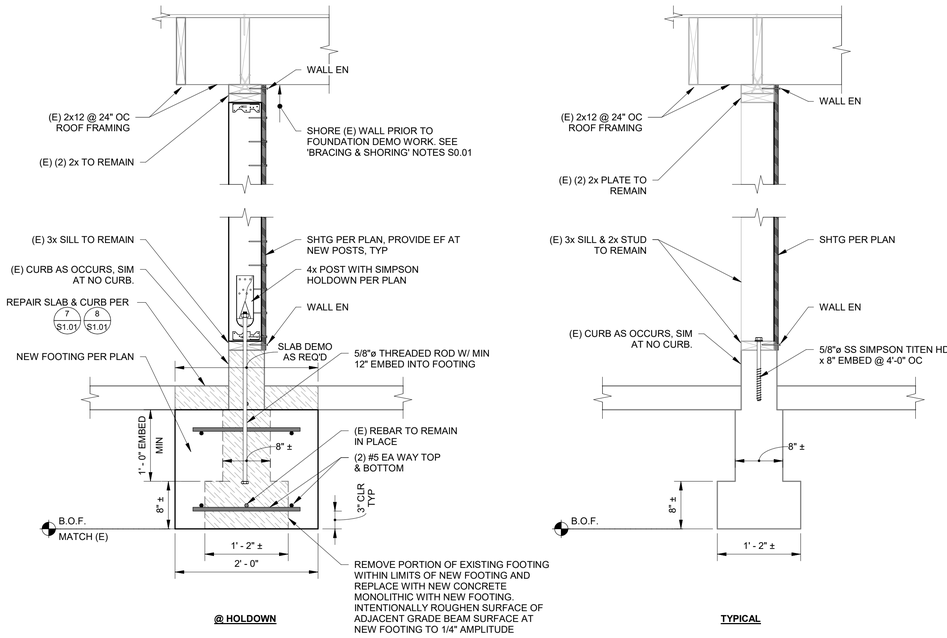
PARTIAL FDN PLAN

1/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01.
2. SEE SHEET S1.01-S1.03 FOR TYPICAL FRAMING DETAILS.
3. BOTTOM OF FOUNDATION EXCAVATIONS SHALL HAVE THE UPPER 6" SCARIFIED AND RECOMPACTED TO 95% RELATIVE COMPACTION.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
5. 1 / A101 — INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
6. 1 — INDICATES GRID
7. A / L = X' - X" — INDICATES SHEARWALL CONSTRUCTION WITH NAILING TAG.
8. INDICATES SHEAR WALL LENGTH. SEE SCHEDULE. 1 / S1.03 NEW SHTG TO BE APA A-D EXPOSURE 1
9. INDICATES FOOTING
10. B — INDICATES FOUNDATION TAG. SEE SCHEDULE.
11. 1 — INDICATES HOLDOWN TAG. SEE SCHEDULE. 4 / S1.03
12. -[1' - 0"] — INDICATES TOP OF FOOTING ELEVATION BELOW FINISH GRADE. TOP OF FOOTING SHALL BE 0'-5" BELOW FINISH FLOOR, UNO

FOOTING SCHEDULE				
TYPE	SIZE	REINFORCING		DET REF
		LONGITUDINAL	TRANSVERSE	
B	2'-0" x 2'-0"	SEE DETAIL	SEE DETAIL	A / SAAS2.0



@ HOLDOWN

TYPICAL

SECTION

1" = 1'-0"

A / SAA2.0

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DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

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Sheet Title:

GRIDLINE #4

Job No.:

5599.2

Sheet No.:

SAAS2.0

Release: Project Status Date: 05/19/26

1" = 40'-0"

120 80 40 0 40

1" = 30'-0"

90 60 30 0 30

1" = 20'-0"

60 40 20 0 20

1/8" = 1'-0"

24 16 8 0 8

1/4" = 1'-0"

12 8 4 0 4

EXHAUST FAN SCHEDULE

MARK	EF 1	EF 2
CFM	110	110
ESP (IN WC)	0.25	0.25
HP / WATTS	- / 21.5	- / 21.5
VOLTAGE/PHASE	115/1	115/1
RPM	880	880
SONES	1.1	1.1
DRIVE	ECM	ECM
MOUNTING	CEILING (6)	CEILING (6)
MANUFACTURER	GREENHECK	GREENHECK
TYPE		
MODEL NUMBER	SP-AP0511W-1	SP-AP0511W-1
CONTROL	(1)	(1)
SERVICE	SEE PLANS	SEE PLANS
OP WEIGHT (LBS)	10	10
ACCESSORIES	(3),(4),(5)	(3),(4),(5)

NOTES:
(1) INTERLOCK WITH LIGHTS

(3) INTEGRAL BACKDRAFT DAMPER
(4) ROOF CAP WITH BIRDSCREEN
(5) DISCONNECT BY DIV 26 ELECTRICAL
(6) FOR MOUNTING, SEE 4/M0.11

PLUMBING FIXTURE & EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTIONS CW	HW	W	V	DESCRIPTION
WC 1	WATER CLOSET ADA	1"	-	4"	2"	KOHLER K-96057 "HIGHCLIFF ULTRA", ELONGATED BOWL, FLOOR MOUNT, 1.1 TO 1.6 GPF. SLOAN GEM-2 113-1.28-XL-CP, 1.28 GPF FLUSH VALVE WITH HANDLE POINTED TOWARDS WIDE SIDE OF STALL. TRIM VACUUM BREAKER TUBE AS NEEDED TO FIT BELOW ADA GRAB BAR. CHURCH 295C OPEN FRONT SEAT.
L 2	LAVATORY ADA	1/2"	1/2"	2"	1-1/2"	KOHLER K-2032 "GREENWICH", 21"x18" WALL HUNG VITREOUS CHINA WITH 4" CENTERS. MCGUIRE 155A GRID DRAIN AND TAILPIECE. CHICAGO 802-VE2805ABCP 0.5 GPM FAUCET WITH VANDAL PROOF NON-AERATING SPRAY OUTLET, LEVER HANDLES. PROVIDE J.R. SMITH 0700 CONCEALED ARMS WITH SUPPORT BOLTED SECURELY TO FLOOR. SEE 1/M0.01. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT. WEIGHT: 45 LBS
S 2	SINK ADA	1/2"	1/2"	2"	1-1/2"	JUST CRA-ADA-1931-A65-J-LM SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 22"x16"x6-3/8" DEEP BOWL SIZE, J-35-SSF SINK STRAINER. CHICAGO 50-E1ABCP 1.5 GPM GOOSENECK FAUCET WITH VANDAL PROOF LEVER HANDLE AT CENTER OF LEFT LEDGE. HAWS 5017LF DRINKING BUBBLER AT RIGHT FRONT.
WH 1	INSTANTANEOUS WATER HEATER	3/8"	3/8"	-	-	EEMAX SPEX3512T, WALL MOUNT INSTANTANEOUS WITH MICROPROCESSOR CONTROL, 0.20 GPM ACTIVATION, 48°F RISE AT 0.5 GPM FLOW RATE, DIGITAL LED DISPLAY. SET HOT WATER TEMPERATURE LIMIT TO 110°F. OPERATING WEIGHT: 4 LBS ELEC: 120V, 1 PH, 30 AMP, 3.5 KW
WH 2	INSTANTANEOUS WATER HEATER	3/8"	3/8"	-	-	EEMAX SPEX65T, WALL MOUNT INSTANTANEOUS WITH MICROPROCESSOR CONTROL, 0.20 GPM ACTIVATION, 44°F RISE AT 1.0 GPM FLOW RATE, DIGITAL LED DISPLAY. SET HOT WATER TEMPERATURE LIMIT TO 110°F. OPERATING WEIGHT: 4 LBS ELEC: 240V, 1 PH, 27 AMP, 6.5 KW
WHA 1	WATER HAMMER ARRESTER	1/2"	-	-	-	SIOUX CHIEF HYDRA-RESTER 652-AS, SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION.

GRILLE SCHEDULE

MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
B	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
C	CEILING/DUCT RETURN	TITUS 350RL STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.

NOTE: ALL INTERIOR COMPONENTS, EVERYTHING BEHIND THE FACE PLATE, SHALL BE PAINTED FLAT BLACK.

GENERAL NOTES

A. THE PLANS AND SPECIFICATIONS DESCRIBE THE MECHANICAL WORK OF THIS PROJECT. ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.

B. ALL LOCATIONS OF EXISTING UTILITIES, EQUIPMENT, DUCTWORK, AND PIPING SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTING UTILITIES, DUCTWORK, AND PIPING. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.

C. MECHANICAL LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.

D. PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719, AND 1101.13.

E. PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES.

F. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.

G. THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL CONFORM TO CBC CHAPTER 16A.

H. PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 502, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

J. DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.

K. ACCEPTANCE TESTING SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT). THE CMATT SHALL PERFORM, DOCUMENT, REGISTER, AND SUBMIT ALL ACCEPTANCE TESTING AS REQUIRED BY CALIFORNIA CODE OF REGULATIONS, TITLE 24, AND AS NOTED ON THE CERTIFICATE OF COMPLIANCE FORM, WHERE APPLICABLE.

L. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

M. CONTRACTOR TO REMOVE EXISTING CEILING SYSTEMS AND COMPONENTS AS REQUIRED FOR THE MECHANICAL WORK ABOVE THE CEILING FOR THIS PROJECT. ALL EXISTING BRACING, SPLAY WIRES, DATA AND POWER WIRING, LIGHTING, DUCTWORK, PIPING, ETC. DAMAGED OR RELOCATED AS PART OF CONSTRUCTION ARE TO BE REPLACED IN KIND OR REINSTALLED PER CURRENT CODE REQUIREMENTS. PATCH, TAPE, TEXTURE, AND PAINT CEILING OPENINGS TO MATCH ADJACENT SURFACES AND/OR REINSTALL NEW CEILING PANELS AFTER WORK IS COMPLETE AND MECHANICAL WORK HAS BEEN INSPECTED AND TESTED.

N. CONTRACTOR TO OPEN UP EXISTING WALLS AS REQUIRED FOR THE MECHANICAL WORK FROM ATTIC SPACE TO BELOW SILL PLATE. WALL IS TO BE PATCHED, TAPED, TEXTURED, AND PAINTED TO MATCH EXISTING MATERIALS AFTER MECHANICAL WORK HAS BEEN INSPECTED AND TESTED. NEW FINISHES TO BE AS SHOWN ON ARCHITECTURAL INTERIOR ELEVATIONS AND FINISH SCHEDULE.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

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

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☒ MD☒ PP☒ E☐ OPTION 1: PROJECT-SPECIFIC DESIGN.

MP☐ MD☐ PP☐ E☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL

MP☐ MD☐ PP☐ E☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

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DATE: 06/08/2026

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Fresno Unified School District

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Project Name:

ADMIN ALTERATIONS

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STATE OF CALIFORNIA

Sheet Title:

GENERAL NOTES - SCHEDULES

Job No.: **5599.2**

Sheet No.: **M0.01**

Release: Issue Date

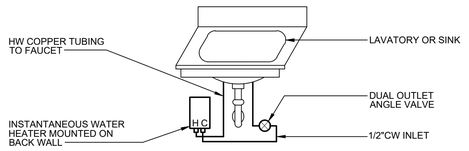
1" = 40'-0"
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1" = 30'-0"
90 60 30 0 30

1" = 20'-0"
60 40 20 0 20

1/8" = 1'-0"
24 16 8 0 8

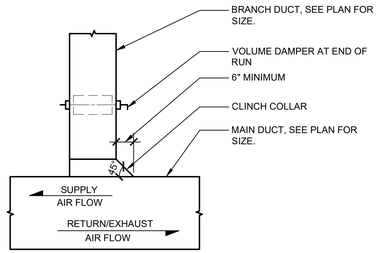
1/4" = 1'-0"
12 8 4 0 4



NOTES:
1. COLD AND HOT WATER PIPING, COLD AND HOT WATER STOPS, AND DRAIN PIPING UNDER ADA ACCESSIBLE LAVATORY OR SINK SHALL BE INSULATED.
2. MOUNT WATER HEATER WITH BOTTOM AT 9" ABOVE FINISH FLOOR AT EXPOSED LOCATIONS FOR TOE CLEARANCE REQUIREMENTS.

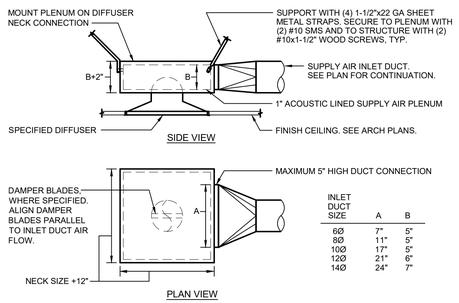
5 M0.11 INSTANTANEOUS WATER HEATER

SCALE: N.T.S.



6 M0.11 RECTANGULAR DUCT - ANGULAR TAP

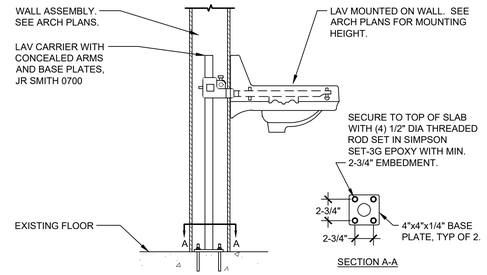
SCALE: N.T.S.



INLET DUCT SIZE	A	B
6Ø	7"	5"
8Ø	11"	5"
10Ø	17"	5"
12Ø	21"	6"
14Ø	24"	7"

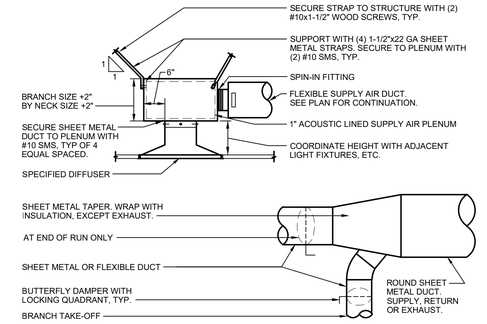
7 M0.11 SUPPLY AIR DEVICE - RESTRICTED HEIGHT

SCALE: N.T.S.



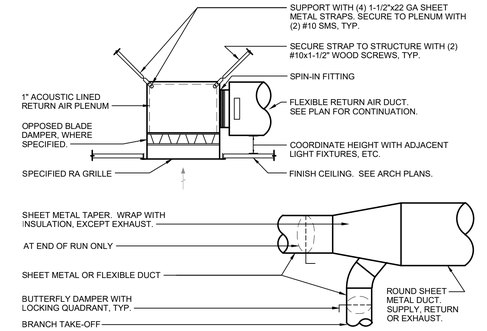
1 M0.11 LAV - MOUNTING

SCALE: N.T.S.



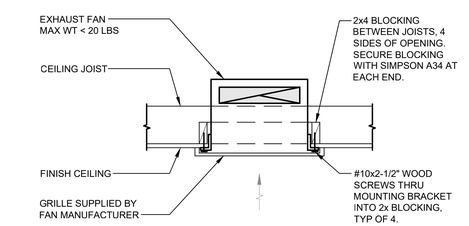
2 M0.11 TYPICAL SUPPLY AIR DEVICE - BRANCH DUCT

SCALE: N.T.S.



3 M0.11 TYPICAL RETURN / EXHAUST AIR DEVICE - BRANCH DUCT

SCALE: N.T.S.



4 M0.11 EXHAUST FAN - CEILING

SCALE: N.T.S.

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Sheet Title:
DETAILS

Job No.:
5599.2

Sheet No.:
M0.11

Release: Issue Date: 6/3/26

GENERAL MECHANICAL SPECIFICATIONS

1. CODES AND REGULATIONS:
ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
   A. CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS
   B. CALIFORNIA CODE OF REGULATIONS, TITLE 17, PUBLIC HEALTH
   C. CALIFORNIA CODE OF REGULATIONS, TITLE 20, SECTION 1601 ET SEQ., APPLIANCE EFFICIENCY REGULATIONS
   D. CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      i. PART 1: CALIFORNIA ADMINISTRATIVE CODE - CAC - 2025
      ii. PART 2: CALIFORNIA BUILDING CODE - CBC - 2022
      iii. PART 3: CALIFORNIA ELECTRICAL CODE - CEC - 2022
      iv. PART 4: CALIFORNIA MECHANICAL CODE - CMC - 2022
      v. PART 5: CALIFORNIA PLUMBING CODE - CPC - 2022
      vi. PART 6: CALIFORNIA ENERGY CODE - CEEC - 2022
      vii. PART 9: CALIFORNIA FIRE CODE - CFC - 2022
      viii. PART 11: CALIFORNIA GREEN BUILDING STANDARDS CODE - CALGREEN - 2022
   E. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2022 WITH CALIFORNIA AMENDMENTS
   F. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2022 WITH CALIFORNIA AMENDMENTS
   G. FRESNO UNIFIED SCHOOL DISTRICT STANDARDS

2. PERMIT AND FEES:
THE CONTRACTOR SHALL TAKE OUT ALL PERMITS AND ARRANGE FOR ALL TESTS IN CONNECTION WITH HIS WORK AS REQUIRED. ALL CHARGES ARE TO BE INCLUDED IN THE WORK.

3. WORK BY OTHERS:
UNLESS OTHERWISE NOTED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND DISCONNECTS.

4. GUARANTEE:
THE CONTRACTOR SHALL REPAIR ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH APPEARS WITHIN A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK.

5. DAMAGES BY LEAKS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED BY LEAKS IN THE TEMPORARY OR PERMANENT PIPING SYSTEMS PRIOR TO COMPLETION OF WORK AND DURING THE PERIOD OF THE GUARANTEE, AND FOR DAMAGES CAUSED BY DISCONNECTED PIPES OR FITTINGS, AND THE OVERFLOW OF EQUIPMENT PRIOR TO COMPLETION OF THE WORK.

6. EXISTING UTILITIES:
   A. THE ENGINEER HAS INDICATED ON THE PLANS THE LOCATION OF KNOWN EXISTING UTILITIES WITHIN THE WORK AREA. THE LOCATION OF SAID UTILITIES SHALL BE CONSIDERED APPROXIMATE ONLY, UNTIL EXPOSED BY THE CONTRACTOR.
   B. SERVICE LATERALS HAVE BEEN SHOWN WHERE INFORMATION WAS AVAILABLE. THE LOCATION OF SAID UTILITIES SHALL BE CONSIDERED APPROXIMATE ONLY, UNTIL EXPOSED BY THE CONTRACTOR.
   C. CONTRACTOR SHALL VERIFY UTILITIES WITHIN THE WORK AREA, INCLUDING USING HAND METHOD. CONTRACT SHALL PROTECT ALL EXISTING UTILITIES NOT DESIGNATED TO BE REMOVED.
   D. MAINTAIN EXISTING UTILITY MAINS AND SERVICE LINES IN CONSTANT SERVICE DURING CONSTRUCTION OF THE WORK. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE STAFF TO MINIMIZE INTERRUPTION OF SERVICE.

7. COMPATIBILITY WITH EXISTING SYSTEMS:
ANY WORK WHICH IS DONE AS AN ADDITION, EXPANSION OR REMODEL OF AN EXISTING SYSTEM SHALL BE COMPATIBLE WITH THAT SYSTEM.

8. DEMOLITION AS INDICATED ON DRAWINGS:
WHERE DEMOLITION IS CALLED FOR, REMOVE ALL EQUIPMENT, FIXTURES, DUCTWORK, PIPING, PANELS, WIRING, CONDUIT, HOUSEKEEPING PADS, BRACES, SUPPORTS, AND ALL RELATED ITEMS NO LONGER REQUIRED.

9. MATERIALS, EQUIPMENT, AND INSTALLATION:
   A. EACH ITEM REFERRED TO ON THE PLANS AND IN THE SPECIFICATIONS REPRESENTS THE STANDARD OF QUALITY DESIRED FOR MATERIALS, EQUIPMENT, AND INSTALLATION.
   B. ALL SUBSTITUTIONS MUST BE REVIEWED IN WRITING BY THE ENGINEER.
   C. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM DEFECTS. MATERIALS AND EQUIPMENT OF A GIVEN TYPE SHALL BE BY THE SAME MANUFACTURER.
   D. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN ON PLANS.
   E. MATERIALS AND EQUIPMENT SHALL BE COVERED OR OTHERWISE PROTECTED DURING CONSTRUCTION AS REQUIRED TO MAINTAIN THE MATERIAL AND EQUIPMENT IN NEW FACTORY CONDITION UNTIL PROJECT ACCEPTANCE.

10. SUBMITTALS:
   A. SHOP DRAWINGS - WITHIN 30 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL SUBMIT ELECTRONIC SUBMITTALS AS PDF ELECTRONIC FILES OF SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, ETC. PROPOSED FOR USE ON THIS PROJECT. MATERIAL OR EQUIPMENT SHALL NOT BE ORDERED OR INSTALLED UNTIL WRITTEN REVIEW IS PROCESSED BY THE ENGINEER. ANY ITEM OMITTED FROM THE SUBMITTAL SHALL BE PROVIDED AS SPECIFIED WITHOUT SUBSTITUTION.
   B. SOURCE LIMITATIONS - MATERIALS AND EQUIPMENT OF A GIVEN TYPE SHALL BE BY THE SAME MANUFACTURER.
   C. SUBSTITUTIONS - MANUFACTURERS AND MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS REPRESENT THE STANDARD OF QUALITY AND FEATURES DESIRED. WHERE EQUIPMENT IS SCHEDULED ON THE DRAWINGS, ANY EQUIPMENT SUBMITTED OTHER THAN SCHEDULED EQUIPMENT IS CONSIDERED A SUBSTITUTION. UNLESS OTHERWISE NOTED, ALTERNATE MANUFACTURERS MAY BE SUBMITTED FOR REVIEW BY THE ENGINEER. A COMPLETED AND SIGNED SUBSTITUTION REQUEST FORM SHALL BE INCLUDED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY THAT SUBSTITUTED ITEMS OR PROCEDURES WILL MEET THE SPECIFICATION AND JOB REQUIREMENTS AND SHALL BE RESPONSIBLE FOR THE COST OF REDESIGN AND MODIFICATIONS TO THE WORK CAUSED BY THESE ITEMS.

11. EXCAVATION AND BACKFILL:
   A. GENERAL - BARREL OF PIPE SHALL HAVE UNIFORM SUPPORT ON SAND BED. SAND SHALL BE FREE FROM CLAY OR ORGANIC MATERIAL, SUITABLE FOR THE PURPOSE INTENDED AND SHALL BE OF SUCH SIZE THAT 90% TO 100% WILL PASS A NO. 4 SIEVE AND NOT MORE THAN 5% WILL PASS A NO. 200 SIEVE. UNLESS OTHERWISE NOTED, MINIMUM EARTH COVER ABOVE TOP OF PIPE OR TUBING OUTSIDE BUILDING WALLS SHALL BE 24", NOT INCLUDING BASE AND PAVING IN PAVED AREAS.
   B. EXCAVATION - WIDTH OF TRENCHES AT TOP OF PIPE SHALL BE MINIMUM OF 16", PLUS THE OUTSIDE DIAMETER OF THE PIPE. PROVIDE ALL SHORING REQUIRED BY SITE CONDITIONS. WHERE OVER EXCAVATION OCCURS, PROVIDE COMPACTED SAND BACKFILL TO PIPE BOTTOM. WHERE GROUNDWATER IS ENCOUNTERED, REMOVE TO KEEP EXCAVATION DRY, USING WELL POINTS AND PUMPS AS REQUIRED.
   C. BACKFILL:
      i. 6" BELOW, AROUND, AND TO 12" ABOVE PIPE - MATERIAL SHALL BE SAND. PLACE CAREFULLY AROUND AND ON TOP OF PIPE, TAKING CARE NOT TO DISTURB PIPING, CONSOLIDATE WITH VIBRATOR.
      ii. ONE FOOT ABOVE PIPE TO GRADE - MATERIAL SHALL BE SANDY OR SILTY LOAM, FREE OF LUMPS, LAID IN 6" LAYERS, UNIFORMLY MIXED TO PROPER MOISTURE AND COMPACTED TO REQUIRED DENSITY. IF BACKFILL IS DETERMINED TO BE SUITABLE AND REQUIRED COMPACTION IS DEMONSTRATED BY LABORATORY TEST, WATER COMPACTION IN 6" LAYERS MAY BE USED, SUBJECT TO REVIEW BY ENGINEER.
   D. COMPACTION - COMPACT TO DENSITY OF 95% WITHIN BUILDING AND UNDER WALKWAYS, DRIVEWAYS, TRAFFIC AREAS, PAVED AREAS, ETC. AND TO 90% ELSEWHERE. DEMONSTRATE PROPER COMPACTION BY TESTING AT TOP, BOTTOM AND ONE-HALF OF THE TRENCH DEPTH. PERFORM THESE TESTS AT THREE LOCATIONS PER 100 FEET OF TRENCH.

12. PROTECTION FOR UNDERGROUND PIPING:
   A. ALL FERROUS PIPE BELOW GRADE (EXCEPT CAST IRON) SHALL BE ENCASED IN POLYETHYLENE TUBE, MINIMUM 8 MIL THICK, ANSI/AWWA C105/A21.5. POLYWRAP.
   OR SHALL HAVE A FACTORY APPLIED PROTECTIVE COATING OF EXTRUDED HIGH DENSITY POLYETHYLENE, 35 TO 70 MILS TOTAL THICKNESS. PROTECTIVE COATING SHALL BE EXTENDED 6" ABOVE SURROUNDING GRADE. X-TRU-COAT, SCOTCHKOTE.
   B. ALL FERROUS PIPE FITTINGS AND AREAS OF DAMAGED COATING SHALL BE COVERED WITH TWO LAYERS DOUBLE WRAP OF 10 MIL POLYVINYL TAPE TO TOTAL THICKNESS OF 40 MILS. JOHNS-MANVILLE.
   C. DETECTABLE WARNING TAPE - PREPRINTED WITH A DESCRIPTION OF UNDERGROUND UTILITY, COLOR CODED, A MINIMUM OF 6" WIDE AND 4 MILS THICK, METALLIC RIBBON MARKER CAPABLE OF BEING LOCATED WITH A METAL DETECTOR. CHRISTY, SETON.
   D. TRACER WIRE - MINIMUM 12 AWG COPPER, CORROSION RESISTANT POLYETHYLENE INSULATED FOR DIRECT BURIAL. AGAVE WIRE, SOUTHWIRE.

13. PIPES PASSING THROUGH FIRE RATED SURFACES:
PIPES PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, PARTITIONS, ETC. SHALL HAVE THE ANNULAR SPACE SURROUNDING THE PIPE OR PIPE INSULATION SEALED WITH FIRE RATED MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF CBC SECTION 714 AND THE FIRE AUTHORITY HAVING JURISDICTION.

14. ACCESS DOORS:
PROVIDE ACCESS DOORS AS REQUIRED WHERE EQUIPMENT, PIPING, VALVES, DUCTWORK, ETC. ARE NOT OTHERWISE ACCESSIBLE. ACCESS DOORS SHALL MATCH THE WALL OR CEILING FINISH AND FIRE RATING AS INDICATED ON THE ARCHITECTURAL DRAWINGS. 16 GAUGE STEEL FRAME AND 14 GAUGE STEEL DOOR WITH PAINTABLE FINISH, EXCEPT IN CERAMIC TILE, WHERE DOOR SHALL BE 16 GAUGE STAINLESS STEEL WITH SATIN FINISH. CONTINUOUS HINGE. KEY AND CYLINDER LOCK. MILCOR.
UNLESS OTHERWISE NOTED, THE MINIMUM SIZES SHALL BE AS FOLLOWS:

1 VALVE UP TO 1-1/2"	12"x12"
1 VALVE UP TO 3"	16"x16"

15. HOUSEKEEPING PAD:
HOUSEKEEPING PADS SHALL BE 6" HIGH CONCRETE, 3,000 PSI COMPRESSIVE STRENGTH, UNLESS OTHERWISE NOTED. PAD SHALL EXTEND 6" BEYOND THE LARGEST DIMENSIONS OF THE EQUIPMENT, UNLESS OTHERWISE NOTED. THE TOP EDGE OF THE PAD SHALL HAVE A 3/4" CHAMFER. THE PAD SHALL HAVE #4 REINFORCING BARS AT 12" ON CENTER, EACH WAY, LOCATED AT THE MID-DEPTH OF THE PAD.

16. CONCRETE ANCHORS:
STEEL BOLT WITH EXPANSION ANCHOR REQUIRING A DRILLED HOLE - POWDER DRIVEN ANCHORS, ADHESIVE ANCHORS AND CONCRETE SCREWS ARE NOT ACCEPTABLE. REUSE OF SCREW ANCHOR HOLES SHALL NOT BE PERMITTED. MINIMUM CONCRETE EMBEDMENT SHALL BE 4-1/2 DIAMETERS. MINIMUM SPACING SHALL BE 12 DIAMETERS CENTER TO CENTER AND 6 DIAMETERS CENTER TO EDGE OF CONCRETE. POST-INSTALLED ANCHORS IN CONCRETE USED FOR COMPONENT ANCHORAGE SHALL BE PREQUALIFIED FOR SEISMIC APPLICATION IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. MAXIMUM ALLOWABLE STRESSES FOR TENSION AND SHEAR SHALL BE 80% OF THE ICC ES TEST REPORT VALUES. HILTI, ITW RED HEAD.

17. SUPPORTS:
ALL MECHANICAL SYSTEMS (EQUIPMENT, DUCTWORK, PIPING, ETC.) SHALL BE PROVIDED WITH SUPPORTS.

18. SYSTEM IDENTIFICATION:
   A. EQUIPMENT - ALL EQUIPMENT SHALL BE IDENTIFIED WITH A PLASTIC LAMINATED, ENGRAVED NAMEPLATE WHICH BEARS THE UNIT MARK NUMBER AS INDICATED ON THE DRAWINGS (e.g. WH-1). PROVIDE 2" HIGH LETTERING, WHITE ON BLACK BACKGROUND. CONTACT TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE. NAMEPLATES SHALL BE PERMANENTLY SECURED TO THE EXTERIOR OF THE UNIT. KOLBI, SETON.
   B. BELOW GRADE PIPING:
      i. BURY DETECTABLE WARNING TAPE WITH EACH UNDERGROUND PIPE. LOCATE DIRECTLY OVER BURIED PIPE, 6" TO 8" BELOW FINISHED GRADE.
      ii. SECURE INSULATED TRACER WIRE TO PLASTIC PIPING WITH NYLON TIES AT MAXIMUM 10 FEET INTERVAL. ALL WIRE-TO-WIRE CONNECTIONS SHALL BE SOLDERED TO PROVIDE CONTINUITY AND TAPED TO PREVENT ENTRY OF MOISTURE. TRACER WIRES SHALL TERMINATE 6" ABOVE GROUND AT EACH END OF PIPING.
   C. ALL ABOVE GROUND PIPING - PROVIDE PIPE LABELS AND DIRECTIONAL FLOW ARROWS AT THE FOLLOWING LOCATIONS:
      i. NEAR EACH VALVE.
      ii. NEAR PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS, AND INACCESSIBLE ENCLOSURES.
      iii. AT ACCESS DOORS OR SIMILAR ACCESS POINTS THAT PERMIT VIEW OF CONCEALED PIPING.
      iv. SPACE AT MAXIMUM INTERVALS OF 20 FEET ALONG EACH RUN.

19. CLEANING:
   A. PROGRESSIVELY AND AT COMPLETION OF THE JOB, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL OF HIS WORK, REMOVING ALL DEBRIS, STAIN AND MARKS RESULTING FROM HIS WORK. THIS INCLUDES BUT IS NOT LIMITED TO BUILDING SURFACES, PIPING, EQUIPMENT AND DUCTWORK, INSIDE AND OUT. SURFACES SHALL BE FREE OF DIRT, GREASE, LABELS, TAGS, TAPE, RUST, AND ALL FOREIGN MATERIAL.
   B. AT END OF EACH WORK DAY, THE CONTRACTOR SHALL COVER ALL OPEN ENDS OF PIPING AND DUCTWORK WITH PROTECTIVE PLASTIC.

20. ACCEPTANCE TESTING:
ACCEPTANCE TESTING SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT). THE CMATT SHALL PERFORM, DOCUMENT, REGISTER, AND SUBMIT ALL ACCEPTANCE TESTING AS REQUIRED BY CALIFORNIA CODE OF REGULATIONS, TITLE 24, AND AS NOTED ON THE CERTIFICATE OF COMPLIANCE FORM, WHERE APPLICABLE. COPIES OF THESE COMPLETED FORMS SHALL BE INCLUDED IN THE OPERATING AND MAINTENANCE BINDER.

21. OPERATING AND MAINTENANCE INSTRUCTIONS:
AN ELECTRONIC PDF FILE AND THREE HARD COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS AND WIRING DIAGRAMS FOR ALL EQUIPMENT AND PARTS LIST FOR ALL FAUCETS, TRIM, VALVES, ETC. SHALL BE SUBMITTED TO THE OWNER, THROUGH THE ARCHITECT. ALL INSTRUCTIONS SHALL BE SUBMITTED AT THE SAME TIME AND SHALL BE BOUND IN A SUITABLE BINDER WITH TABS DIVIDING EACH TYPE OF EQUIPMENT (e.g. PUMPS, FANS, MOTORS, ETC.). INCLUDE THE FOLLOWING ITEMS:
   A. COMPLETED OEM STARTUP CHECKLIST
   B. COMPLETED CERTIFICATES OF INSTALLATION FORMS
   C. COMPLETED CERTIFICATES OF ACCEPTANCE FORMS
   D. A LETTER CERTIFYING THE DUCT MOUNT SMOKE DETECTOR HAS BEEN TESTED AND IS OPERATIONAL

22. RECORD DRAWINGS:
AS WORK PROGRESSES, THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL DEVIATIONS IN THE WORK FROM THAT INDICATED ON THE DRAWINGS. FINAL LOCATION OF ALL UNDERGROUND WORK SHALL BE RECORDED BY DEPTH FROM FINISHED GRADE AND BY OFFSET DISTANCE FROM PERMANENT SURFACE STRUCTURE. IN ADDITION, WATER, GAS, SEWER, ETC. WITHIN THE BUILDING SHALL BE RECORDED BY OFFSET DISTANCES FROM BUILDING WALLS. THE RECORD DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT.

PLUMBING SPECIFICATIONS

1. ALL GENERAL MECHANICAL SPECIFICATIONS APPLY TO THIS SECTION.

2. LAYOUT:
PIPING SHALL BE CONCEALED IN WALLS, ABOVE THE CEILING, OR BELOW GRADE UNLESS OTHERWISE NOTED. ROUTE PIPING TO AVOID CUTTING STRUCTURAL MEMBERS. WHERE CUTTING OR NOTCHING IS REQUIRED, THE STRUCTURAL MEMBER SHALL BE REINFORCED IN ACCORDANCE WITH CBC. PIPING SHALL BE INSTALLED TO ENSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS, PREVENT UNUSUAL NOISE AND PERMIT COMPLETE DRAINAGE OF THE SYSTEM. PROVIDE INDIVIDUAL SHUT OFF VALVES AT EACH FIXTURE AND EQUIPMENT.

3. PIPING MATERIAL:
   A. SOIL, WASTE, AND VENT
      i. INSIDE BUILDING AND WITHIN FIVE FEET OF BUILDING WALLS - STANDARD WEIGHT COATED CAST IRON PIPE AND FITTINGS. PLAIN END, CISPI 301, ASTM A888, OR HUB END WITH RUBBER GASKETS, ASTM A74, ASTM C564. AB&I, CHARLOTTE, JC CAST IRON, STAR PIPE PRODUCTS, TYLER.
         a. COUPLINGS SHALL BE HEAVY DUTY SHIELDED COUPLINGS, TYPE 304 STAINLESS STEEL, WITH NEOPRENE GASKET, ASTM C-1540. HUSKY HD 2000, CLAMP-ALL 80, MISSION HEAVYWEIGHT.
      ii. FLOOR CLEANOUTS - ROUND, CAST IRON ADJUSTABLE HOUSING, TAPER THREADED BRONZE CLOSURE PLUG. SAME SIZE AS CONNECTED DRAINAGE PIPING. J.R. SMITH 4023 WITH NICKEL BRONZE TOP IN FINISHED AREAS; J.R. SMITH 4223 WITH EXTRA HEAVY DUTY CAST IRON TOP IN UTILITY AREAS.
      iii. WALL CLEANOUTS - CAST IRON CLEANOUT TEE WITH TAPER THREADED BRONZE PLUG AND STAINLESS STEEL WALL ACCESS. SAME SIZE AS CONNECTED DRAINAGE PIPING. J.R. SMITH 4532 WITH STAINLESS STEEL ROUND COVER AND SCREW; J.R. SMITH 4558 WITH STAINLESS STEEL SQUARE COVER AND SCREW IN TILE WALL.
      iv. PIPE CLEANOUTS - IRON BODY WITH THREADED BRASS PLUG.
      v. CLEANOUT BOX - PRECAST REINFORCED CONCRETE. CAST IRON LID MARKED WITH "SEWER" LETTERING. H20 TRAFFIC RATED BOX AND LID. CHRISTY G05T.
   B. DOMESTIC COLD WATER
      i. INSIDE BUILDING, WITHIN FIVE FEET OF BUILDING WALLS, AND ALL ABOVE GRADE - HARD TEMPER SEAMLESS COPPER, ASTM B88. WROUGHT COPPER FITTINGS, ANSI B16.22. TYPE L WITH BRAZED JOINTS (1100F MIN). 1-1/2" AND SMALLER ABOVE GRADE MAY BE SOLDERED, 95-5 TIN-ANTIMONY SOLDER. ALL NIPPLES SHALL BE RED BRASS (85% COPPER).
      ii. INSIDE BUILDING, BELOW GRADE 1" AND SMALLER - SOFT COPPER TUBE, TYPE K.
   C. DOMESTIC HOT WATER
      i. INSIDE BUILDING, ABOVE GRADE - SAME AS COLD WATER PIPING, INSIDE BUILDING.
   D. DRAIN PIPING - SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A53. 150 PSI GALVANIZED MALLEABLE IRON SCREWED FITTINGS, ANSI B16.3.
   OR HARD TEMPER SEAMLESS COPPER, ASTM B88. WROUGHT COPPER FITTINGS, ANSI B16.22. TYPE L WITH BRAZED JOINTS (1100F MIN).
      i. OUTSIDE BUILDING, BELOW GRADE, 1" AND SMALLER - POLYVINYL CHLORIDE (PVC), SCHEDULE 40, ASTM D1785 WITH SOLVENT WELD FITTINGS.

4. VALVES:
ALL VALVES OF A PARTICULAR TYPE OR FOR A PARTICULAR SERVICE SHALL BE BY THE SAME MANUFACTURER. PROVIDE CHAIN WHEEL OPERATOR WHERE VALVE IS MORE THAN 10 FEET ABOVE FINISH FLOOR.
   A. GATE VALVES:
      i. 2" AND SMALLER - ALL BRONZE. THREADED BONNET. NON-RISING STEM. WEDGE DISK. MALLEABLE IRON HANDWHEEL. 300 PSI CWP RATING. NIBCO T-113-LF.
      ii. 2-1/2" AND LARGER - IRON BODY, BRONZE MOUNTED. NON-RISING STEM. WEDGE DISK, RESILIENT SEATED. 300 PSI CWP RATING. FLANGED END. HANDWHEEL FOR ABOVE GRADE. NIBCO F-619-RWS.
      iii. UNDERGROUND VALVES SHALL HAVE SQUARE OPERATING NUT. PROVIDE OPERATING "T" HANDLES FOR UNDERGROUND VALVES.
   B. BALL VALVES, 2" AND SMALLER - FULL PORT. BRONZE OR BRASS BODY, CAP, STEM, DISK AND BALL. THREADED CONNECTION. LEVER HANDLE. PTFE SEAT. O-RING SEALS. PRESSURE RATED 600 PSI NON-SHOCK CWP, MAXIMUM 100 PSI AT 300°F. APOLLO, NIBCO T-685-80-LF, WATTS.
   C. CHECK VALVE:
      i. 2" AND SMALLER - ALL BRONZE SWING CHECK, REGRINDING. 200 PSI WOG RATING. NIBCO T-413-Y-LF.
   D. VALVE BOX - PRECAST REINFORCED CONCRETE. CAST IRON LID MARKED FOR SERVICE. H20 TRAFFIC RATED BOX AND LID. CHRISTY G05T. PROVIDE MINIMUM 6" DIAMETER PIPE EXTENDED FROM TOP OF VALVE TO 6" OF TOP OF VALVE BOX.
   E. "T" HANDLES FOR UNDERGROUND VALVES - PROVIDE A MINIMUM OF TWO OPERATING "T" HANDLES FOR UNDERGROUND VALVES FOR EACH UNDERGROUND SYSTEM WHERE VALVES ARE REQUIRED. THE LENGTHS OF THE HANDLES ARE DEPENDENT UPON THE DEPTH OF THE VALVES AND THE ABILITY OF THE HANDLES TO FULLY OPEN AND/OR CLOSE THE VALVES. AT LEAST ONE "T" HANDLE FOR EACH SYSTEM SHALL BE ON SITE AT THE BEGINNING OF THE INSTALLATION OF A PARTICULAR SYSTEM FOR EMERGENCIES, AND THE CONSTRUCTION MANAGER SHALL HAVE ACCESS TO THESE "T" HANDLES AND VALVES.

5. MISCELLANEOUS SPECIALTIES:
   A. TRANSITION FITTINGS: MANUFACTURED FITTING OR COUPLING SAME SIZE AS, WITH PRESSURE RATING AT LEAST EQUAL TO AND ENDS COMPATIBLE WITH, PIPING TO BE JOINED.
   B. UNIONS:
      i. 2" AND SMALLER - AAR MALLEABLE IRON, BRONZE TO IRON GROUND SEAT. 300 PSI. UNIONS FOR COPPER PIPING SHALL BE COPPER OR CAST BRONZE. ANVIL.
      ii. 2-1/2" AND LARGER - GROOVED PIPE, SYNTHETIC GASKET, MALLEABLE IRON HOUSING. EPDM GASKET UL CLASSIFIED IN ACCORDANCE WITH ANSI/NSF 61. VICTAULIC STYLE 77 GRADE E GASKET, GRUVLOK 7001 GRADE EP GASKET.
   C. DIELECTRIC COUPLING - INSULATING UNION OR FLANGE RATED FOR 250 PSIG. EPCO, ZURN WILKINS SERIES DUXL.
   D. SHOCK ABSORBER - MULTIPLE BELLOWS. STAINLESS STEEL OR COPPER CONSTRUCTION. DESIGNED AND APPLIED IN ACCORDANCE WITH PDI WH201. AMTROL, SIOUX CHIEF, JR SMITH, WADE, ZURN.
   E. ESCUTCHEONS - CHROME PLATED, METAL TYPE WITH FASTENERS.

6. MISCELLANEOUS PIPING ITEMS:
   A. PIPE LABELS, ABOVE GRADE PIPING - PREPRINTED, COLOR CODED, WITH LETTERING INDICATING SERVICE, AND ARROW SHOWING FLOW DIRECTION. CONTACT TYPE, PERMANENT ADHESIVE BACKING. BRADY CORP, CHAMPION AMERICA, SETON.
   B. EQUIPMENT LABELS - PLASTIC LAMINATED, ENGRAVED NAMEPLATE WHICH BEARS THE UNIT MARK NUMBER AS INDICATED ON THE DRAWINGS (e.g. WH-1). 2" HIGH LETTERING, WHITE ON BLACK BACKGROUND. CONTACT TYPE, PERMANENT ADHESIVE BACKING, COMPATIBLE WITH LABEL AND WITH SUBSTRATE. KOLBI, SETON.
   C. FLASHING - PROVIDE CLAMP-ON STORM COLLAR AND SEAL WATERTIGHT WITH MASTIC. MAINTAIN DIELECTRIC SEPARATION BETWEEN COPPER AND GALVANIZED MATERIALS.
      i. VENT THROUGH ROOF - FLASHING SHALL BE 4 LB/SQ FT, 0.0625" THICK LEAD, 18-INCH SQUARE BASE FLANGE, LENGTH SUFFICIENT TO BE TURNED DOWN 2" INTO VENT. MAYCO, SANTA ROSA LEAD PRODUCTS.

7. PIPE SUPPORT: FINISH SHALL BE GALVANIZED, UNLESS NOTED OTHERWISE.
   A. PIPE HANGER - GALVANIZED STEEL "J" HANGER WITH SIDE BOLT FOR PIPING 4" AND SMALLER; GALVANIZED STEEL CLEVIS HANGER FOR PIPING 5" AND LARGER. LOAD AND JAM NUTS. SIZE AND MAXIMUM LOAD PER MANUFACTURER'S RECOMMENDATION. FELT LINER FOR COPPER PIPING. ANVIL, B-LINE, TOLCO, UNISTRUT.

	MAXIMUM SUPPORT SPACING		
PIPE SIZE	COPPER	SCH 40 STEEL	SCH 40 ABS / PVC DWV
1/2"	6'	6'	4'
3/4"	6'	8'	4'
1"	6'	8'	4'
1-1/4"	6'	10'	4'
1-1/2"	6'	10'	4'
2"	10'	10'	4'

   B. INSULATION SUPPORT - CALCIUM SILICATE INSULATION, 100 PSI, OR HEAVY DENSITY FIBER GLASS 100 PSI. INSULATION THICKNESS EQUAL TO ADJOINING PIPE INSULATION. STEEL SUPPORT SHIELD OR SADDLE. INSULATION SHALL EXTEND 1" BEYOND STEEL SUPPORT. PIPE HANGER IN ACCORDANCE WITH "A" ABOVE. INCREASE HANGER SIZE PER MANUFACTURER'S RECOMMENDATION. B-LINE, INSULATED PIPE SHIELDS, INC., UNI-GRIP.
   C. ISOLATING SHIELD - GALVANIZED STEEL SHELL AND REINFORCING RIBS. 1/4" NON-CONDUCTING HAIR FELT PAD. PIPE HANGER IN ACCORDANCE WITH PARAGRAPH ABOVE. INCREASE HANGER SIZE PER MANUFACTURER'S RECOMMENDATION. B-LINE, SEMCO, SUPERSTRUT.
   D. HANGER ROD - ALL THREAD ROD WITH GALVANIZED FINISH. ANVIL, B-LINE, TOLCO, UNISTRUT.
   E. CONSTRUCTION CHANNEL - 12 GAUGE, 1-5/8"x1-5/8" GALVANIZED STEEL CHANNEL. SINGLE OR MULTIPLE SECTION. SELF-LOCKING NUTS AND FITTINGS. ANVIL, B-LINE B22, TOLCO A-12, UNISTRUT P1000.
   F. PIPE BLOCK - 100% RECYCLED RUBBER PAD WITH REFLECTIVE STRIPS ON EACH SIDE, UV RESISTANT, 1" GAP BETWEEN MULTIPLE BLOCK SYSTEMS, 12 GAUGE GALVANIZED STRUT CHANNEL BOLTED TO BLOCK, ADJUSTABLE HINGE FITTING FOR SLOPED ROOF. MINIMUM LENGTH EQUAL TO 2 TIMES THE HEIGHT TO THE CENTER LINE OF PIPE. B-LINE DB6 SERIES.

8. PIPING INSULATION MATERIALS:
ALL PIPING INSULATION MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50.
   A. PRE-MOLDED FIBERGLASS - HEAVY DENSITY SECTIONAL PRE-MOLDED FIBERGLASS WITH VAPOR BARRIER LAMINATED ALL SERVICE JACKET AND PRESSURE SEALING VAPOR BARRIER LAP. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. PERM RATING 0.02, ASTM E96. INSULATION SHALL BE 1-1/2" THICKNESS FOR PIPES 1-1/2" AND SMALLER, OTHERWISE 2" THICKNESS. PROVIDE 3" MINIMUM WIDE TAPE OF SAME MATERIAL AS LAP FOR BUTT JOINTS. JOHNS-MANVILLE, KNAUF, OWENS-CORNING.
   B. FIBERGLASS ADHESIVE - WATER BASED, SHALL MEET ASTM C916 TYPE II REQUIREMENTS. CHILDERS CHIL-QUIK CP-127, FOSTER 85-60, VIMASCO 795.
   C. PVC JACKET (FOR PIPE, FITTINGS, AND VALVES) - PRE-MOLDED POLYVINYL CHLORIDE (PVC) JACKETS, 0.020" THICKNESS. SIZE TO MATCH APPLICATION. PROVIDE SOLVENT WELD ADHESIVE AND PVC VAPOR BARRIER PRESSURE SEALING TAPE BY SAME MANUFACTURER. JOHNS-MANVILLE ZESTON
   D. ALUMINUM JACKETING - ALUMINUM PIPE AND FITTING JACKETING, 0.016" THICK FOR STRAIGHT PIPE, 0.024" THICK FOR FITTINGS. STUCCO-EMBOSSED FINISH. INTEGRAL MOISTURE BARRIER. PROVIDE PRE-FABRICATED ALUMINUM STRAPPING AND SEALS BY SAME MANUFACTURER. ITW PABCO/CHILDERS, RPR PRODUCTS.
   E. METAL JACKETING/FLASHING SEALANT - CHILDERS CHIL-BYL CP-76, FOSTER 95-44 ELASTOLAR, PITTSBURGH CORNING PITTSEAL 727. GALLON CONTAINER QUANTITIES ONLY, NO TUBES.
   F. INSULATING TAPE - GROUND VIRGIN CORK AND SYNTHETIC ELASTOMERIC, 1/8" THICKNESS. BLACK, ODORLESS, AND NON-TOXIC. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.43 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. NON-SHRINKING. FOR OUTDOOR USE, PROVIDE PROTECTIVE FINISH BY SAME MANUFACTURER. SEALERS 1401.
   G. MOLDED CLOSED CELL VINYL (PIPING INSULATION UNDER ADA ACCESSIBLE LAVATORIES AND SINKS) - FULLY MOLDED CLOSED CELL VINYL, 1/8" THICK, MINIMUM. THERMAL CONDUCTIVITY SHALL NOT EXCEED 1.17 BTU-IN/HR-FT2-F AT AN AVERAGE TEMPERATURE OF 73F. WEEP HOLE IN CLEANOUT NUT ENCLOSURE. HINGED CAP OVER VALVE TO ALLOW ACCESS FOR SERVICING. OUT OF SIGHT NYLON FASTENING SYSTEM AND INTERNAL RIBS ON DRAIN INSULATION TO PROVIDE AIR GAP (LAV-GUARD ONLY). TRUEBRO LAV-GUARD, MCGUIRE PRO WRAP, PLUMBEREX.

9. FIXTURES:
REFER TO PLUMBING SCHEDULE ON THE DRAWINGS FOR LIST OF FIXTURES AND TRIM. MANUFACTURER'S MODEL NUMBERS ARE LISTED TO COMPLETE DESCRIPTION. PROVIDE MODELS OF KOHLER, SLOAN, ZURN, JUST, CHICAGO, AND HAWS TO MATCH FRESNO UNIFIED SCHOOL DISTRICT STANDARDS. ALL FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM, SEALS, CARRIERS, TRAPS, ETC. ALL TRIM, VALVES AND PIPING NOT CONCEALED IN WALL STRUCTURE, ABOVE CEILING OR BELOW FLOORS, SHALL BE BRASS WITH POLISHED CHROME PLATE FINISH, UNLESS NOTED OTHERWISE. ALL ENAMELED FIXTURES SHALL BE ACID RESISTING. STANDARD COLOR IS WHITE UNLESS OTHERWISE NOTED.
   A. STOPS AND P-TRAPS - ALL FIXTURES SHALL BE PROVIDED WITH STOPS AND P-TRAPS AS APPLICABLE. WALL MOUNTED FAUCETS, VALVES, ETC. SHALL HAVE INTEGRAL STOPS OR WALL MOUNTED STOPS.
      i. STOPS - ALL COLD AND HOT WATER SUPPLIES SHALL BE 1/2" IPS INLET ANGLE STOPS WITH STUFFING BOX, LOOSE KEY LOCK SHIELD, AND BRASS RISER (3/8" FOR 2.5 GPM AND LESS, OTHERWISE 1/2"). MCGUIRE, SPEEDWAY.
      ii. P-TRAPS - SEMI-CAST BRASS, GROUND JOINT. 17 GAGE. CLEANOUT PLUG. UNOBSTRUCTED WATERWAY. CALIFORNIA TUBULAR, DEARBORN, MCGUIRE.
   B. CAULKING - WHITE SILICONE SEALANT, MILDEW RESISTANT. DOW DOWSIL 786, GE SANITARY SCS1700, PECORA 898NST.

10. EQUIPMENT:
MANUFACTURERS AND MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS REPRESENT THE STANDARD OF QUALITY AND FEATURES DESIRED. WHERE EQUIPMENT IS SCHEDULED ON THE DRAWINGS, ANY EQUIPMENT SUBMITTED OTHER THAN SCHEDULED EQUIPMENT IS CONSIDERED A SUBSTITUTION. REFER TO PLUMBING SCHEDULE ON THE DRAWINGS FOR LIST OF EQUIPMENT. MANUFACTURER'S MODEL NUMBERS ARE LISTED TO COMPLETE DESCRIPTION. CAPACITIES SHALL BE IN ACCORDANCE WITH SCHEDULES SHOWN ON DRAWINGS. CAPACITIES ARE TO BE CONSIDERED MINIMUM. EQUIPMENT MUST CONFORM TO SPACE REQUIREMENTS AND LIMITATIONS AS INDICATED ON DRAWINGS AND AS REQUIRED FOR OPERATION AND MAINTENANCE.
   A. WATER HEATER, ELECTRIC INSTANTANEOUS AND TANKLESS - REFER TO PLUMBING EQUIPMENT SCHEDULE.

11. PIPING INSTALLATION:
   A. SANITARY SEWER PIPING - INSTALL AT 1/4" PER FOOT PITCH. PIPING 4" AND LARGER MAY BE INSTALLED AT 1/8" PER FOOT PITCH WHERE STRUCTURAL OR OTHER LIMITATIONS PREVENT INSTALLATION AT A GREATER PITCH. BELL AND SPIGOT PIPING SHALL BE INSTALLED WITH BARREL ON SAND BED, EXCAVATE HOLE FOR BELL.
      i. CLEANOUTS - INSTALL AT ENDS OF LINES, AT CHANGES OF DIRECTION GREATER THAN 45 DEGREES, AND NOT GREATER THAN 100 FOOT INTERVALS. CLEANOUTS SHALL BE INSTALLED WITH A WYE 1/8 BEND COMBINATION. END OF LINE CLEANOUTS AND CLEANOUTS AT CHANGE OF DIRECTION SHALL BE INSTALLED WITH TWO 1/8 BENDS OR LONG SWEEP 1/4 BEND.
   B. WATER PIPING:
      i. CONNECTIONS TO BRANCHES AND RISERS SHALL BE MADE FROM TOP OF MAIN. MINIMUM PIPE SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED. ALL STUB OUTS, INCLUDING EXPOSED FIXTURE STOPS AND FLUSH VALVES SHALL BE INSTALLED WITH BRASS NIPPLES OR TYPE K COPPER FOR COPPER PIPING. NIPPLES ARE TO EXTEND FROM OUTSIDE OF WALL TO FITTING AT HEADER OR DROP BEHIND FINISH WALL SURFACES. PIPE NIPPLE SHALL BE SAME SIZE AS STOP OR FLUSH VALVE. PROVIDE SHUTOFF FOR EACH BUILDING AND EACH CONNECTION TO EQUIPMENT.
      ii. WATER PIPING THAT RISES UP FROM BELOW GRADE SHALL BE TYPE L COPPER WITH BRAZED JOINTS, WRAPPED WITH 40 MILS OF PIPE WRAP TAPE. FEMALE PVC ADAPTERS SHALL NOT BE USED.
      iii. EQUIPMENT REQUIRING DOMESTIC WATER FOR NON-POTABLE USE SHALL BE PROVIDED WITH BACKFLOW PREVENTER ACCEPTABLE FOR INTENDED USE BY LOCAL GOVERNING AUTHORITIES.
   C. DRAIN PIPING, INCLUDING CONDENSATE - INSTALL WITH CONSTANT PITCH TO RECEPTACLE, 1/4" PER FOOT PITCH WHERE POSSIBLE, OTHERWISE 1/8" PER FOOT MINIMUM. PROVIDE TEE WITH CLEANOUT PLUG AT ALL CHANGES OF DIRECTION.
   D. PLASTIC PIPING:
      i. PLASTIC PIPE AND FITTINGS SHALL BE JOINED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. METAL TO PLASTIC TRANSITION FITTINGS SHALL BE INSTALLED AT ALL TRANSITIONS.
      ii. SECURE INSULATED TRACER WIRE TO PIPE WITH NYLON TIES AT MAXIMUM 10 FEET INTERVAL. ALL WIRE-TO-WIRE CONNECTIONS SHALL BE SOLDERED TO PROVIDE CONTINUITY AND TAPED TO PREVENT ENTRY OF MOISTURE. TRACER WIRES SHALL TERMINATE 6" ABOVE GROUND AT EACH END OF PIPING. TRACER WIRE IS IN ADDITION TO PREPRINTED METALLIC DETECTABLE WARNING TAPE.
   E. FERROUS PIPE AND FITTINGS BELOW GRADE (EXCEPT CAST IRON) SHALL BE PROTECTED WITH POLYETHYLENE TUBE OR HAVE A FACTORY APPLIED PROTECTIVE COATING OF EXTRUDED HIGH DENSITY POLYETHYLENE.
   F. UNIONS - INSTALL A UNION ON THE LEAVING SIDE OF EACH VALVE, AT EQUIPMENT CONNECTIONS, AND ELSEWHERE AS NECESSARY FOR ASSEMBLY OR DISASSEMBLY OF PIPING.
   G. VALVES - INSTALL FULL LINE SIZE VALVES.
      i. PROVIDE SHUTOFF VALVE AT EACH POINT OF CONNECTION TO EXISTING PIPING, FOR EACH BUILDING, AND AT EACH EQUIPMENT CONNECTION.
      ii. A UNION SHALL BE INSTALLED ON THE LEAVING SIDE OF EACH VALVE, AT ALL SIDES OF AUTOMATIC VALVES, AT EQUIPMENT CONNECTIONS, AND ELSEWHERE AS NECESSARY FOR ASSEMBLY OR DISASSEMBLY OF PIPING.
      iii. USE GATE VALVES FOR SHUTOFF SERVICE ONLY.
      iv. BALL VALVES SHALL NOT BE INSTALLED BELOW GRADE.
   H. PIPES PASSING THROUGH CONCRETE OR CONCRETE BLOCK WALL SHALL BE PROVIDED WITH PIPE SLEEVES. ALLOW 1" ANNULAR CLEARANCE BETWEEN SLEEVE AND PIPE FOR PIPING 3" AND SMALLER, OTHERWISE 2" ANNULAR CLEARANCE.
   J. PROVIDE CHROME PLATED METAL ESCUTCHEONS TO CONCEAL OPENINGS WHERE PIPING PENETRATES WALLS, CEILINGS, OR FLOORS IN FINISHED AREAS.

12. PIPING INSULATION INSTALLATION:
   A. ALL DOMESTIC HOT WATER PIPING, FITTINGS AND ACCESSORIES SHALL BE INSULATED WITH 1-1/2" THICKNESS FOR PIPES 1-1/2" AND SMALLER, OTHERWISE 2" THICKNESS.
   B. FREEZE PROTECTION OF COLD WATER PIPING - ALL COLD WATER PIPING EXPOSED TO WEATHER OR OTHER AREAS SUBJECT TO FREEZING SHALL BE INSULATED WITH 1" THICKNESS. COVER WITH ALUMINUM JACKETING WHERE EXPOSED TO WEATHER. SHORT LENGTHS OF PIPE, LESS THAN 1 FOOT, AND VALVES MAY BE WRAPPED WITH INSULATING TAPE, 50% OVERLAP. COVER VALVES TO STEM. APPLY AT LEAST TWO COATS OF PROTECTIVE FINISH WHERE EXPOSED TO WEATHER.
   C. PIPING INSULATION UNDER ADA ACCESSIBLE LAVATORIES AND SINKS - COLD AND HOT WATER PIPING, COLD AND HOT WATER STOPS, AND DRAIN PIPING UNDER ADA ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED WITH 1/8" THICK CLOSED CELL VINYL. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
   D. INSTALL JACKETING OVER INSULATION MATERIAL. COVER WITH PVC JACKETING WHERE EXPOSED TO VIEW, ALUMINUM JACKETING WHERE EXPOSED TO WEATHER.

13. FIXTURE INSTALLATION:
   A. FIXTURE HEIGHT - SHALL BE AS INDICATED ON ARCHITECTURAL PLANS.
   B. FLOOR DRAINS OR FLOOR SINKS - SHALL BE PARALLEL TO ROOM SURFACES, SET LEVEL, FLUSH WITH FLOOR, AND ADJUSTED TO PROPER HEIGHT TO DRAIN. COVER OPENINGS DURING CONSTRUCTION TO KEEP ALL FOREIGN MATTER OUT OF DRAIN LINE.
   C. WALL HUNG FIXTURES - SHALL BE PROVIDED WITH PROPER BACKING AND HANGER PLATES SECURED TO WALL. FIXTURES MOUNTED ON CARRIERS SHALL BEAR AGAINST STOP NUTS, CLEAR OF WALL SURFACE. CAULK FIXTURES AGAINST WALLS WITH WHITE SILICONE SEALANT, GE SANITARY SCS1700 OR EQUAL. CAULKING SHALL BE SMOOTH AND FLUSH WITH FIXTURE SURFACE, NOT CONCAVE.
   D. FLOOR MOUNTED FIXTURES - SHALL BE PROVIDED WITH PROPER SUPPORT PLATES. CAULK FLOOR MOUNT FIXTURES WITH WHITE SILICONE SEALANT, GE SANITARY SCS1700 OR EQUAL. CAULKING SHALL BE SMOOTH AND FLUSH WITH FIXTURE SURFACE, NOT CONCAVE.
   E. INSTALL WALL FLANGES OR ESCUTCHEONS AT PIPING WALL PENETRATIONS IN EXPOSED, FINISHED LOCATIONS. USE DEEP PATTERN ESCUTCHEONS IF REQUIRED TO CONCEAL PROTRUDING FITTINGS.
   F. WHERE INSTALLING PIPING ADJACENT TO FIXTURES, ALLOW SPACE FOR SERVICE AND MAINTENANCE OF FIXTURES.

14. EQUIPMENT INSTALLATION:
IT SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER TO INSURE THAT NO WORK DONE UNDER OTHER SPECIFICATION SECTIONS SHALL IN ANY WAY BLOCK, OR OTHERWISE HINDER THE EQUIPMENT. ALL EQUIPMENT SHALL BE SECURELY ANCHORED IN PLACE. ALL EQUIPMENT SHALL BE INSTALLED LEVEL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES FOR OPERATION, SERVICE, AND MAINTENANCE.
   A. CONNECTIONS TO EQUIPMENT - WHERE SIZE CHANGES ARE REQUIRED FOR CONNECTIONS TO EQUIPMENT, THEY SHALL BE MADE IMMEDIATELY ADJACENT TO THE EQUIPMENT AND, IF POSSIBLE, INSIDE THE EQUIPMENT CABINET.
   B. WHERE INSTALLING PIPING ADJACENT TO EQUIPMENT, ALLOW SPACE FOR SERVICE AND MAINTENANCE OF EQUIPMENT. ARRANGE PIPING FOR EASY REMOVAL OF EQUIPMENT.
   C. EQUIPMENT IDENTIFICATION - ALL EQUIPMENT SHALL BE IDENTIFIED WITH A PLASTIC LAMINATED, ENGRAVED NAMEPLATE WHICH BEARS THE UNIT MARK NUMBER AS INDICATED ON THE DRAWINGS (e.g. WH-1).

15. TESTS:
PERFORM ALL TEST AS REQUIRED BY APPLICABLE CODES IN PRESENCE OF INSPECTOR.
   A. GRAVITY SYSTEMS:
      i. SANITARY SEWER - ALL ENDS OF THE SANITARY SEWER SYSTEM SHALL BE CAPPED AND LINES FILLED WITH WATER TO THE TOP OF THE HIGHEST VENT, 10 FEET ABOVE GRADE MINIMUM. THIS TEST SHALL BE MADE BEFORE ANY FIXTURES ARE INSTALLED. TEST SHALL BE MAINTAINED UNTIL ALL JOINTS HAVE BEEN INSPECTED, BUT NO LESS THAN 2 HOURS.
      ii. DRAINS, INCLUDING CONDENSATE - SIMILAR TO SANITARY SEWER.
   B. PRESSURE SYSTEMS:
      i. DOMESTIC COLD AND HOT WATER PIPING - MAINTAIN 100 PSIG WATER PRESSURE FOR 4 HOURS.

16. DISINFECTION:
DISINFECT ALL DOMESTIC WATER PIPING SYSTEMS IN ACCORDANCE WITH AWWA STANDARD C651 "AWWA STANDARD FOR DISINFECTING WATER MAINS", LATEST EDITION, AND IN ACCORDANCE WITH ADMINISTRATIVE AUTHORITY. DISINFECTION PROCESS SHALL BE PERFORMED IN COOPERATION WITH HEALTH DEPARTMENT HAVING JURISDICTION AND WITNESSED BY A REPRESENTATIVE OF THE ARCHITECT. AFTER DISINFECTION, WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS AND TESTED FOR BACTERIOLOGICAL PURITY. SAMPLE COLD WATER AND HOT WATER WHERE APPLICABLE. CERTIFICATE OF BACTERIOLOGICAL PURITY SHALL BE OBTAINED AND DELIVERED TO THE OWNER THROUGH THE ARCHITECT.

1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"

IDENTIFICATION STAMP
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DATE: 06/08/2026

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Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

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32712
EXP. 6-30-26
MECHANICAL
STATE OF CALIFORNIA

Sheet Title:
SPECS

Job No.:
5599.2

Sheet No.:
M0.21

Release: Issue Date
6/3/26

HVAC SPECIFICATIONS

1. ALL GENERAL MECHANICAL SPECIFICATIONS APPLY TO THIS SECTION. REFER TO SHEET M0.21.

2. DUCTWORK:
ALL DUCTWORK MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. DUCTWORK SHALL BE CONSTRUCTED FOR A MINIMUM PRESSURE CLASS OF 2" WATER GAUGE, 26 GAUGE MINIMUM, UNLESS NOTED OTHERWISE. SMACNA SEAL CLASS A. SHALL COMPLY WITH CMC CHAPTER 6 DUCT SYSTEMS.
   A. RECTANGULAR DUCTWORK - METAL DUCTWORK SHALL BE G90 COATED GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A653, WITH GAUGE AND CONSTRUCTION TO MATCH SMACNA STANDARD FOR PRESSURE REQUIRED, 26 GAUGE MINIMUM. PITTSBURGH LOCK SHALL BE USED ON ALL LONGITUDINAL SEAMS. TDC WITH GASKET TRANSVERSE JOINTS.
   B. ROUND DUCTWORK, CONCEALED - DUCTWORK SHALL BE GALVANIZED STEEL, SPIRAL LOCKSEAM DUCT, ASTM A653, WITH GAUGE AND CONSTRUCTION TO MATCH SMACNA STANDARD FOR PRESSURE REQUIRED, 26 GAUGE MINIMUM. SLIP JOINT OR PIPE COUPLING CONNECTORS. SNAP LOCK SHALL NOT BE ALLOWED DUE TO SEALING PROBLEMS. MCGILL AIRFLOW UNI-SEAL.
   C. FLEXIBLE DUCTWORK, INSULATED - THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. ONE POUND PER CUBIC FOOT GLASS FIBER INSULATION. 1-1/2" THICKNESS, R6 WHERE DUCTWORK IS WITHIN THE BUILDING THERMAL INSULATION ENVELOPE. 2" THICKNESS, R8 WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE. SEAMLESS METALIZED REINFORCED POLYESTER VAPOR BARRIER JACKET. CONTINUOUS INTERNAL LINER BONDED TO GALVANIZED STEEL WIRE HELIX. DUCT SHALL BE CAPABLE OF CONTINUOUS OPERATION AT 1.5" OF WATER STATIC PRESSURE AND 4,000 FPM AIR VELOCITY. DUCT SHALL COMPLY WITH NFPA 90A. JP LAMBORN.
   D. DUCT SEALANTS:
      i. JOINTS EXPOSED TO WEATHER - UV RESISTANT, WATER RESISTANT. SEALANT SHALL BE G.E. "SILGLAZE II" SCS2800 OR SILIMAX MULTI-PURPOSE SILICONE SEALANT, WITHOUT SUBSTITUTION.
      ii. JOINTS NOT EXPOSED TO WEATHER - FIBER REINFORCED. WHITE IN COLOR. CHILDERS CHIL-DUCT CP-148, DESIGN POLYMERICS DP1030, FOSTER 32-17, HARDCAST VERSA-GRIP 181, HARDCAST CCWI-181.

3. AIR TERMINALS AND DUCT FITTINGS:
   A. GRILLES (INCLUDING DIFFUSERS, REGISTERS, AND LOUVERS):
      i. PERFORMANCE - SUBMIT COMPLETE PERFORMANCE DATA (THROW, PRESSURE DROP, NOISE LEVEL, ETC.) FOR ALL GRILLES PROPOSED, OTHER THAN THOSE SCHEDULED. TESTING SHALL BE IN ACCORDANCE WITH ANSI/ASHRAE 70-1991. IF, ACCORDING TO THE CERTIFIED DATA OF THE MANUFACTURER OF THE PROPOSED UNITS, THE SIZES INDICATED ON THE DRAWINGS WILL NOT PERFORM SATISFACTORILY, THE UNITS SHALL BE RESELECTED BY THE CONTRACTOR FOR THE PROPER DIFFUSION, SPREAD, PRESSURE DROP, THROW AND NOISE LEVEL.
      ii. FRAME AND ACCESSORIES - ALL SUPPLY, RETURN, AND EXHAUST GRILLES SHALL NOT HAVE AN OPPOSED BLADE VOLUME CONTROL DAMPER UNLESS OTHERWISE NOTED. ALL SURFACE MOUNTED GRILLES SHALL HAVE A PERIMETER GASKET AND FLANGED EDGE. ALL GRILLES SHALL HAVE FRAMES SUITABLE FOR MOUNTING IN THE SURFACES DESIGNED BY THE ARCHITECTURAL DRAWINGS. KEY OR SCREWDRIVER OPERATED, NO SLIDE BARS.
      iii. FINISH - ALL CEILING AND WALL GRILLES AND ALL LOUVERS SHALL HAVE A PAINTABLE WHITE FINISH UNLESS OTHERWISE NOTED. INTERIOR COMPONENTS, EVERYTHING BEHIND THE FACE PLATE, SHALL BE PAINTED FLAT BLACK. FLOOR GRILLES SHALL HAVE AN ANODIZED ALUMINUM FINISH UNLESS OTHERWISE NOTED.
   B. BRANCH DUCT VOLUME CONTROL DAMPER (VCD):
      i. VCD IN RECTANGULAR DUCTS - OPPOSED BLADE, 8" MAXIMUM BLADE WIDTH, MINIMUM 16 GAUGE GALVANIZED BLADE, 48" MAXIMUM LENGTH, NYLON OR OIL IMPREGNATED BRONZE BEARINGS, 1/2" DIAMETER PIN SHAFT, MINIMUM 16 GAUGE GALVANIZED CHANNEL FRAME, ACTUATING ROD AND LINKAGE OUT OF AIR STREAM. RUSKIN MD35.
      ii. VCD IN ROUND DUCT - SINGLE BLADE DAMPER, MINIMUM 20 GAUGE GALVANIZED FRAME AND BLADE. RUSKIN MDRS25.
      iii. ALL BRANCH DAMPERS SHALL HAVE REGULATOR WITH STAMPED STEEL HANDLE, SPRING LOADED SHAFT NUT, CAST BODY AND SERRATED SELF-LOCKING DIE CAST CORE. REGULATOR FOR HORIZONTAL DUCTS OVERHEAD SHALL BE MOUNTED ON SIDES OR BOTTOM OF DUCTS. SECURE A 12" LENGTH OF BRIGHTLY COLORED PLASTIC RIBBON TO HANDLE FOR EASE OF LOCATION. WHERE RECTANGULAR OR ROUND DUCTWORK IS INSULATED, SLIT INSULATION TO ALLOW HANDLE TO PROTRUDE. VENTLOK 641 (WITH 607 OPEN END BEARING FOR ROUND DUCTS).
      iv. ALL BRANCH DAMPERS THAT ARE INACCESSIBLE SHALL BE PROVIDED WITH REMOTE OPERATORS. REGULATORS SHALL EXTEND TO AND THROUGH CEILING WITH NEATLY INSTALLED HARDWARE AT THE FINISHED CEILING. VENTLOCK 677.
   C. TURNING VANES - DOUBLE WALL, HOLLOW METAL, AIR FOIL SHAPE WITH RAIL. SPACING IN ACCORDANCE WTIH MANUFACTURER'S RECOMMENDATIONS. AERO DYNE HEP.

4. DUCTWORK INSULATION:
ALL DUCTWORK INSULATION MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50.
   A. FIBERGLASS BLANKET - INSTALLED THERMAL RESISTANCE AT A MEAN TEMPERATURE OF 75F SHALL MEET OR EXCEED INDICATED R-VALUE. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. 1-1/2 POUND PER CUBIC FOOT DENSITY. 1-1/2" THICKNESS, R6 WHERE DUCTWORK IS WITHIN THE BUILDING THERMAL INSULATION ENVELOPE. 2" THICKNESS, R8 WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE AND/OR ABOVE THE ROOF. FACED WITH GLASS REINFORCED FOIL LAMINATED TO KRAFT PAPER. CERTAINTEED SOFTTOUCH, JOHNS-MANVILLE MICROLITE XG, KNAUF, OWENS CORNING SOFTR.
   B. FIBERGLASS BOARD - INSTALLED THERMAL RESISTANCE AT A MEAN TEMPERATURE OF 75F SHALL MEET OR EXCEED INDICATED R-VALUE. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. 3 POUND PER CUBIC FOOT DENSITY. 2" THICKNESS, R8 WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE. CERTAINTEED CERTAPRO CB300, KNAUF, JOHNS MANVILLE, OWENS CORNING.
   C. ACOUSTIC DUCT LINER - GLASS FIBER DUCT LINER, COMPLY WITH ASTM C1071. INSTALLED THERMAL RESISTANCE AT A MEAN TEMPERATURE OF 75F SHALL MEET OR EXCEED INDICATED R-VALUE. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.24 BTU-IN/HR-FT2-F AT A MEAN TEMPERATURE OF 75F. ONE SIDE COATED TO PREVENT FIBER EROSION UP TO 6,000 FPM. AVERAGE NOISE REDUCTION COEFFICIENT OF 0.70 FOR 1" THICKNESS AND 0.95 FOR 2" THICKNESS. 1-1/2 POUND PER CUBIC FOOT DENSITY MINIMUM. 1" THICKNESS, R4.2 WHERE DUCTWORK IS WITHIN THE BUILDING THERMAL INSULATION ENVELOPE. 2" THICKNESS, R8 WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE AND/OR ABOVE THE ROOF. CERTAINTEED TOUGHGARD R, JOHNS-MANVILLE LINACOUSTIC RC, KNAUF SONIC XP, OWNES CORNING QUIETR.
   D. BONDING ADHESIVE - WATER BASED, SHALL MEET ASTM C916 TYPE II REQUIREMENTS. CHILDERS CHIL-QUIK CP-127, DESIGN POLYMERICS DP2501, FOSTER 85-60, VIMASCO 795.

5. EQUIPMENT:
MANUFACTURERS AND MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS REPRESENT THE STANDARD OF QUALITY AND FEATURES DESIRED. WHERE EQUIPMENT IS SCHEDULED ON THE DRAWINGS, ANY EQUIPMENT SUBMITTED OTHER THAN SCHEDULED EQUIPMENT IS CONSIDERED A SUBSTITUTION. CAPACITIES AND EFFICIENCIES ARE TO BE CONSIDERED MINIMUM. MANUFACTURER'S MODEL NUMBERS ARE LISTED TO COMPLETE DESCRIPTION. EQUIPMENT MUST CONFORM TO SPACE REQUIREMENTS AND LIMITATIONS AS INDICATED ON DRAWINGS AND AS REQUIRED FOR OPERATION AND MAINTENANCE. WHERE ARCHITECTURAL SCREENING IS INDICATED, EQUIPMENT SHALL NOT EXTEND ABOVE OR BEYOND SCREENING. EQUIPMENT WILL NOT BE ACCEPTED THAT DOES NOT READILY CONFORM TO SPACE CONDITIONS. PREPARE AND SUBMIT LAYOUT DRAWINGS FOR ALL PROPOSED EQUIPMENT, DIFFERENT THAN SCHEDULED UNITS, SHOWING ACTUAL JOB CONDITIONS, REQUIRED CLEARANCES FOR PROPER OPERATION, MAINTENANCE, ETC.
ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICE.
   A. EXHAUST FANS:
   ALL EXHAUST FANS SHALL BE TESTED ACCORDING TO AMCA STANDARD 210 IN AN AMCA REGISTERED LABORATORY. FANS EXPOSED TO WEATHER SHALL HAVE VENTILATED WEATHERPROOF HOUSING OVER MOTOR AND DRIVE ASSEMBLY. ALL DIRECT DRIVE FANS SHALL BE PROVIDED WITH UNIT MOUNTED SPEED CONTROLLERS, UNLESS OTHERWISE NOTED. UL LISTED.
      i. CEILING FAN - DIRECT DRIVE ELECTRICALLY COMMUTATED MOTOR (ECM) EXHAUST FAN. FAN HOUSING CONSTRUCTED OF STEEL WITH FACTORY PAINT. FAN WHEEL SHALL BE FORWARD CURVED CONSTRUCTED OF POLYPROPYLENE. INTEGRAL OUTLET DUCT COLLAR SHALL HAVE A BACKDRAFT DAMPER. NON-YELLOWING INLET GRILLE, WHITE FINISH. FAN SPEED TO MODULATE BASED ON CONSTANT AIRFLOW. PROVIDE A FIELD WIRING COMPARTMENT WITH DISCONNECT RECEPTACLE. ADJUSTABLE MOUNTING BRACKET. MANUFACTURER'S STANDARD ROOF JACK, WALL CAP, OR LOUVERED GRILLE EAVE VENT, AND TRANSITION FITTINGS. COOK, GREENHECK SP-AP.

6. HANGER AND SUPPORT:
   A. HANGER STRAP - GALVANIZED SHEET METAL STRAP, 1-1/2" WIDE x 22 GAUGE MINIMUM.
      i. FLEXIBLE DUCT SUPPORTS - GALVANIZED SHEET METAL STRAPS, 4" WIDE x 22 GAUGE MINIMUM, WITH 6" WIDE FIBERGLASS PAD BETWEEN DUCT AND HANGING STRAP.
   B. HANGER ROD - ALL THREADED ROD WITH GALVANIZED FINISH, 3/8" DIAMETER MINIMUM. B-LINE, TOLCO, UNISTRUT.
   C. CONSTRUCTION CHANNEL - 12 GAUGE, 1-5/8" x 1-5/8" GALVANIZED STEEL CHANNEL. SINGLE OR MULTIPLE SECTION. SELF-LOCKING NUTS AND FITTINGS. B-LINE B22, TOLCO A-12, UNISTRUT P1000.

7. DUCTWORK INSTALLATION:
UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS. DUCTWORK SHALL BE BUILT TO A PRESSURE CLASSIFICATION EQUAL TO OR GREATER THAN THE MAXIMUM OPERATING PRESSURE AT THAT POINT IN THE DUCTWORK. DUCT AND FITTINGS SHALL BE SEALED TO SMACNA SEAL CLASS A. A COPY OF THESE STANDARDS SHALL BE MAINTAINED AT THE JOB SITE AT ALL TIMES. DUCTWORK AND ACCESSORIES SHALL BE INSTALLED IN A MANNER TO PREVENT VIBRATION AND RATTLING.
   A. FLANGES AND ESCUTCHEON - WHERE DUCTWORK PENETRATES WALLS, CEILINGS, OR FLOORS, FURNISH AND INSTALL FLANGE OR ESCUTCHEON OF SAME MATERIAL AS DUCT.
   B. DUCTED RETURN - ALL AIR HANDLING EQUIPMENT THAT IS NOT DIRECTLY LOCATED IN THE SPACE THAT IT SERVES SHALL HAVE DUCTED RETURNS.
   C. SHEET METAL DUCTWORK:
      i. ELBOWS - ELBOWS SHALL BE STANDARD RADIUS TYPE WITH CENTERLINE RADIUS TO DUCT DIAMETER OF 1.0 (R/D RATIO). ELBOWS WITH LESS THAN STANDARD RADIUS AND RECTANGULAR ELBOWS SHALL BE FITTED WITH TURNING VANES.
      ii. TEES - TEES IN SUPPLY DUCTWORK SHALL BE STRAIGHT TAP-IN WITH EXTRACTOR OR 45 DEGREE TAKE-OFF. GRILLES OR BRANCHES IN SUPPLY DUCTWORK SHALL BE A MINIMUM OF EIGHT DUCT DIAMETERS DOWNSTREAM OF TEES.
      iii. DUCT JOINTS AND SEAMS - ALL JOINTS AND SEAMS WHICH ARE NOT EXPOSED TO WEATHER SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT. ALL JOINTS AND SEAMS EXPOSED TO WEATHER SHALL BE SEALED AIR AND WATER TIGHT WITH SILICONE SEALANT.
      iv. DAMPERS - INSTALL VOLUME CONTROL DAMPER AND DAMPER REGULATOR IN ALL BRANCH DUCTS.
   D. FLEXIBLE GLASS FIBER DUCTWORK - THE USE OF FLEXIBLE DUCT IS LIMITED TO THE LAST 5 FEET OF EACH BRANCH DUCT. EXAMPLE: ONE 5 FOOT SECTION OF FLEXIBLE DUCT MAY BE USED TO CONNECT THE GRILLE TO THE SHEET METAL BRANCH DUCT. NO JOINTS ARE PERMITTED IN THIS 5 FOOT LENGTH. HANGERS SHALL BE 4" WIDE METAL STRAPS SPACED TO PREVENT SAGGING, 42" MAXIMUM SPACING. INSERT 6" WIDE FIBERGLASS PAD BETWEEN DUCT AND HANGING STRAP. JOINTS SHALL BE INSTALLED WITH STAINLESS STEEL OR NYLON DRAW BANDS, DURO DYNE DYN-O-TIE. MINIMUM TURN RADIUS SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS: TURN RADIUS OF DUCT CENTERLINE NOT LESS THAN 1.5 TIMES THE DUCT DIAMETER OR 1.5 R/D RATIO.
   E. UNDERGROUND DUCTWORK - DUCTWORK SHALL BE ENCASED IN 2" OF CONCRETE, MINIMUM. DUCTWORK SHALL BE SLOPED 1/4" PER FOOT BACK TO THE MAIN DUCT.
   F. HANGER AND SUPPORT:
      i. INSTALL SEISMIC RESTRAINTS ON DUCTWORK IN COMPLIANCE WITH CBC CHAPTER 16A.
      ii. SUPPORT INDIVIDUAL DUCTS WITH HANGER STRAP OR ROD. PROVIDE HANGERS, SUPPORTS, CLAMPS, AND NECESSARY ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT DUCTWORK FROM THE BUILDING STRUCTURE. HANGERS SHALL BE PLACED TO SUPPORT DUCTWORK WITHOUT STRAIN ON JOINTS OR FITTINGS.
      iii. TRAPEZE HANGERS OF CONSTRUCTION CHANNEL AND PIPE CLAMPS MAY BE USED. SUBMIT DESIGN TO ENGINEER FOR REVIEW.
      iv. HANGERS EXPOSED TO VIEW SHALL BE ALL THREADED ROD AND ANGLE OR CHANNEL SUPPORTS.
      v. VERTICAL DUCTWORK SHALL BE SUPPORTED WITH STEEL ANGLES OR CHANNEL SECURED TO THE SIDES OF THE DUCT WITH WELDS, BOLTS, SHEET METAL SCREWS, OR BLIND RIVETS AT BASE AND AT EACH FLOOR, MAXIMUM 10 FEET ON CENTER.
      vi. SUPPORT DUCT WITHIN 12" OF ALL CHANGES IN DIRECTION.
      vii. INSTALL SUPPORTS FOR LOW PRESSURE HORIZONTAL RECTANGULAR DUCT WITH THE FOLLOWING MAXIMUM SPACING. MAXIMUM SPACING IS BASED ON STRAIGHT LENGTHS OF DUCT ONLY. ACTUAL SPACING REQUIREMENTS WILL DEPEND ON STRUCTURAL SYSTEM. SEISMIC REQUIREMENTS MAY REDUCE MAXIMUM SPACING.
         a. 12" AND SMALLER IN LARGEST DIMENSION - MAXIMUM SPAN, 8 FEET.
         b. 13" TO 48" IN LARGEST DIMENSION - MAXIMUM SPAN, 5 FEET.
      viii. INSTALL SUPPORTS FOR LOW PRESSURE HORIZONTAL ROUND DUCT WITH THE FOLLOWING MAXIMUM SPACING. MAXIMUM SPACING IS BASED ON STRAIGHT LENGTHS OF DUCT ONLY. ACTUAL SPACING REQUIREMENTS WILL DEPEND ON STRUCTURAL SYSTEM. SEISMIC REQUIREMENTS MAY REDUCE MAXIMUM SPACING.
         a. 20" AND SMALLER - MAXIMUM SPAN, 8 FEET.
         b. 21" TO 48" - MAXIMUM SPAN, 5 FEET.

8. AIR TERMINALS AND DUCT FITTINGS INSTALLATION:
   A. GENERAL - UNLESS OTHERWISE NOTED, ALL AIR TERMINALS AND DUCT FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS. TERMINALS AND FITTINGS SHALL BE INSTALLED IN A MANNER TO PREVENT VIBRATION AND RATTLING.
   B. PAINT INTERIOR OF METAL DUCTS THAT ARE VISIBLE THROUGH GRILLES AND REGISTERS AND THAT DO NOT HAVE DUCT LINER. APPLY ONE COAT OF FLAT, BLACK, LATEX PAINT OVER A COMPATIBLE GALVANIZED STEEL PRIMER.

9. DUCTWORK INSULATION INSTALLATION:
INSULATE ALL SHEET METAL SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTWORK EXCEPT AS NOTED BELOW. INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND FLOORS EXCEPT AT FIRE DAMPERS.
   A. WHERE INSULATION IS NOT REQUIRED - DO NOT INSULATE FACTORY-INSULATED DUCTS OR CASINGS, ACOUSTIC LINED DUCTS, FIBROUS GLASS DUCTS, UNDERGROUND DUCTWORK, SUPPLY OR RETURN DUCTWORK EXPOSED TO VIEW IN THE SPACE THAT IT SERVES, OR EXHAUST DUCTWORK.
   B. CONCEALED DUCTWORK - WRAP CONCEALED DUCTWORK WITH FIBERGLASS BLANKET LAPPED 2" MINIMUM. SECURE WITH STAPLES 4" ON CENTERS MAXIMUM ON STRAIGHT RUNS AND 3" MAXIMUM AT ELBOWS AND FITTINGS. INSULATION ON BOTTOM OF DUCTS WIDER THAN 36" SHALL ALSO BE SECURED WITH MECHANICAL FASTENERS AT 24" ON CENTER.
   C. ACOUSTIC LINING - UNLESS OTHERWISE NOTED, ALL SUPPLY AND RETURN DUCTWORK IN EQUIPMENT ROOMS INCLUDING OUTSIDE AIR INTAKES, ALL DUCTWORK EXPOSED TO WEATHER AND OTHER DUCTS AS INDICATED ON DRAWINGS, SHALL HAVE ACOUSTIC LINING. WHERE ACOUSTIC LINING IS INSTALLED, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING AND MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN ON DRAWINGS. APPLY LINING WITH BONDING ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALSO SECURE WITH MECHANICAL FASTENERS IN ACCORDANCE WITH SMACNA STANDARDS. SEAL EXPOSED EDGES OF LINING WITH BONDING ADHESIVE.

10. EQUIPMENT INSTALLATION:
IT SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER TO ENSURE THAT NO WORK DONE UNDER OTHER SPECIFICATION SECTIONS SHALL IN ANY WAY BLOCK OR OTHERWISE HINDER THE EQUIPMENT. ALL EQUIPMENT SHALL BE SECURELY ANCHORED IN PLACE. ALL EQUIPMENT SHALL BE INSTALLED LEVEL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES FOR OPERATION, SERVICE, AND MAINTENANCE.
   A. CONNECTIONS TO EQUIPMENT - WHERE SIZE CHANGES ARE REQUIRED FOR CONNECTIONS TO EQUIPMENT, THEY SHALL BE MADE IMMEDIATELY ADJACENT TO THE EQUIPMENT AND, IF POSSIBLE, INSIDE THE EQUIPMENT CABINET.
   B. CEILING UNITS - SUSPEND UNITS FROM STRUCTURE; USE HANGER RODS, STEEL WIRE, OR METAL STRAPS.

11. TESTS AND ADJUSTMENTS:
UNLESS OTHERWISE DIRECTED, TESTS SHALL BE WITNESSED BY A REPRESENTATIVE OF THE ARCHITECT. WORK TO BE CONCEALED SHALL NOT BE ENCLOSED UNTIL PRESCRIBED TESTS ARE MADE. SHOULD ANY WORK BE ENCLOSED BEFORE SUCH TESTS, THE CONTRACTOR SHALL, AT HIS EXPENSE, UNCOVER, TEST, AND REPAIR ALL WORK TO ORIGINAL CONDITIONS. LEAKS AND DEFECTS SHOWN BY TESTS SHALL BE REPAIRED AND ENTIRE WORK RETESTED.
   A. ACCEPTANCE OF DUCT SYSTEMS SHALL BE CONTINGENT UPON CONFORMANCE WITH THE REQUIREMENTS SPECIFIED IN PARAGRAPH 'SYSTEM ENERGY BALANCE'.

12. SYSTEM ENERGY BALANCE:
PROVIDE THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY TO TEST, ADJUST AND BALANCE, RETEST, AND RECORD PERFORMANCE OF THE SYSTEMS AND RELATED CONTROL SYSTEMS TO OBTAIN DESIGN QUANTITIES AS SPECIFIED. THE AGENCY MUST PROVE THAT THEY HAVE NO AFFILIATION WITH ANY EQUIPMENT MANUFACTURER, DESIGN ENGINEER, INSTALLING CONTRACTOR, OR ANY OTHER PARTY WHICH MIGHT LEAD TO A CONFLICT OF INTEREST, IN ORDER TO PROVIDE AN UNBIASED THIRD PARTY SYSTEM BALANCE AND REPORT.
   A. THE WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
      i. PRIOR TO DEMO WORK, PERFORM SYSTEM TEST AND BALANCE OF EXISTING EQUIPMENT, ASSOCIATED DUCTWORK, GRILLES, AND RELATED CONTROL SYSTEM. IDENTIFY ANY OBVIOUS DEFICIENCIES AND SUBMIT REPORT WITH EQUIPMENT NAMEPLATE, GRILLE LOCATIONS, AND AIRFLOW QUANTITY.
      ii. TOTAL SYSTEM BALANCE OF AIR CONDITIONING EQUIPMENT INCLUDING AIR DISTRIBUTION DEVICES, DUCTWORK, EQUIPMENT, AND RELATED CONTROL SYSTEM.
         a. EXHAUST FANS
         b. EXISTING HEAT/COOL UNIT
   B. QUALIFICATIONS - PRIOR TO COMMENCING WORK, THE AGENCY SHALL BE REVIEWED BY THE ENGINEER AND SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC), NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR TESTING ADJUSTING AND BALANCING BUREAU (TABB) WHERE CERTIFICATION PROGRAMS ARE ENDORSED BY A NATIONALLY RECOGNIZED ORGANIZATION. CERTIFICATION SHALL BE CURRENT FOR THE DURATION OF THE PROJECT. THE AGENCY SHALL PROVIDE DOCUMENTATION OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE.
   C. INSTRUMENTS - ALL INSTRUMENTS SHALL BE ACCURATELY CALIBRATED; CALIBRATION HISTORIES SHALL BE AVAILABLE FOR EXAMINATION. APPLICATION OF INSTRUMENTATION SHALL BE IN ACCORDANCE WITH AABC, NEBB, OR TABB STANDARDS.
   D. SUBMITTALS:
      i. PRIOR TO COMMENCING WORK, SUBMIT SHOP DRAWINGS INCLUDING COPIES OF FORMS TO BE USED FOR TESTING AND BALANCING SHOWING ALL DATA WHICH IS TO BE RECORDED.
      ii. COMPLETED BALANCE REPORT SHALL BE SUBMITTED TO AND REVIEWED BY THE MECHANICAL ENGINEER PRIOR TO THE FINAL MECHANICAL CONSTRUCTION REVIEW.
   E. PROCEDURE SHALL BE IN ACCORDANCE WITH AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE", NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS", OR SMACNA'S "HVAC SYSTEMS - TESTING, ADJUSTING, AND BALANCING". SYSTEM SHALL BE IN FULL, CONTINUOUS OPERATION DURING TEST. BALANCED QUANTITIES SHALL BE PLUS 10%, MINUS 0% OF DESIGN QUANTITIES. ALL NAMEPLATE DATA, MANUFACTURER, MODEL AND SERIAL NUMBERS SHALL BE RECORDED FOR EACH ITEM TESTED.
   F. EXTENDED WARRANTY - THE TEST AND BALANCE AGENCY SHALL INCLUDE AN EXTENDED WARRANTY OF 120 DAYS AFTER COMPLETION OF TEST AND BALANCE WORK, DURING WHICH TIME THE ENGINEER, AT HIS DISCRETION, MAY REQUEST A RECHECK OR RESETTING OF ANY ITEM OR ITEMS IN TEST REPORT. THE AGENCY SHALL PROVIDE TECHNICIANS TO ASSIST THE ENGINEER IN MAKING ANY TESTS HE MAY REQUIRE DURING THIS PERIOD OF TIME.
   G. AIR SYSTEM PROCEDURE, FOR EACH NEW AND EXISTING AIR HANDLING SYSTEM:
   TOTAL SYSTEM BALANCE SHALL COMMENCE AFTER HVAC SYSTEMS INSTALLATION IS COMPLETE AND IN WORKING ORDER. ASSOCIATED AREAS OF GENERAL CONSTRUCTION SHALL BE IN PLACE, INCLUDING INTERIOR AND EXTERIOR DOORS, WINDOWS, WALLS, AND CEILINGS.
      i. ALL AIR FILTERS SHALL BE CLEAN WHEN AIR BALANCE IS PERFORMED.
      ii. PROVIDE A SKETCH OF THE EQUIPMENT SHOWING EXACTLY WHERE ALL PRESSURE READINGS WERE TAKEN.
      iii. ADJUST BLOWER RPM TO DESIGN REQUIREMENTS.
      iv. RECORD MOTOR FULL LOAD AMPERES.
      v. MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY AND RETURN DUCTS AND OBTAIN DESIGN CFM AT FANS.
      vi. RECORD SYSTEM STATIC PRESSURE, INLET AND DISCHARGE.
      vii. RECORD FILTER QUANTITY, SIZE(S), AND PRESSURE DROP ACROSS FILTER(S) AT EACH FILTER BANK.
      viii. ADJUST SYSTEM FOR DESIGN CFM RECIRCULATED AIR.
      ix. ADJUST SYSTEM FOR DESIGN CFM OUTSIDE AIR.
      x. RECORD ENTERING AIR TEMPERATURES. (DB HEATING, DB AND WB COOLING.)
      xi. RECORD LEAVING AIR TEMPERATURES. (DB HEATING, DB AND WB COOLING.)
      xii. ADJUST ALL MAIN SUPPLY AND RETURN AIR DUCTS TO DESIGN CFM.
      xiii. ADJUST ALL ZONES TO DESIGN CFM, SUPPLY AND RETURN.
      xiv. ADJUST ALL DIFFUSERS, GRILLES, AND REGISTERS TO PLUS 10%, MINUS 0% OF DESIGN REQUIREMENTS.
      xv. ADJUST CFM AT ALL EXHAUST FANS, MAKE-UP UNITS, ETC. (HIGH AND LOW SPEED, WHERE APPLICABLE). RECORD APPLICABLE DATA FROM ITEMS i THROUGH xi ABOVE.
      xvi. EACH GRILLE, DIFFUSER, AND REGISTER SHALL BE IDENTIFIED AS TO LOCATION.
      xvii. VERIFY PROPER DIFFUSION PATTERN FOR ALL CEILING GRILLES AND THAT ALL SIDEWALL GRILLES ARE SET FOR 5 DEGREES UPWARD DEFLECTION UNLESS OTHERWISE NOTED. MAKE A NOTATION OF ANY THAT ARE NOT SET PROPERLY.
      xviii. SIZE, TYPE, AND MANUFACTURER OF DIFFUSERS, GRILLES, REGISTERS AND ALL TESTED ITEMS SHALL BE IDENTIFIED AND LISTED. MANUFACTURER'S RATINGS SHALL BE USED TO MAKE REQUIRED CALCULATIONS ON ALL ITEMS.
      xix. READINGS AND TESTS OF DIFFUSERS, GRILLES, AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY AND TEST RESULTANT VELOCITY, REQUIRED CFM AND TEST RESULTANT CFM AFTER ADJUSTMENTS.
      xx. ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE ADJUSTED FOR REQUIRED AIR PATTERNS AND TO MINIMIZE DRAFTS.
      xxi. SET, TEST, AND ADJUST AIR CONDITIONING UNIT ECONOMIZER SYSTEM OPERATIONS, INCLUDING DEMAND CONTROL VENTILATION, IN COOPERATION WITH CONTROLS CONTRACTOR. RECORD MINIMUM AND MAXIMUM OUTSIDE AND EXHAUST AIRFLOWS.
         a. MEASURE AND RECORD CO2 CONCENTRATION LEVEL. ADJUST CO2 SETPOINTS FOR DEMAND CONTROL VENTILATION.
   H. IN REMODEL AREAS, A COMPLETE PRELIMINARY TEST AND BALANCE REPORT SHALL BE ACCOMPLISHED PRIOR TO ANY WORK. ANY OBVIOUS DEFICIENCIES SHALL BE IDENTIFIED AT THAT TIME. A COMPLETE REPORT OF ALL READINGS, RECOMMENDATIONS, ETC. SHALL BE SUBMITTED TO THE ENGINEER THROUGH THE ARCHITECT.

13. FILTERS:
   A. PLEATED PANEL FILTER, MERV 13 OR BETTER WHEN TESTED IN ACCORDANCE WITH ASHRAE 52.2 THROW-AWAY FRAME. UL 900 LISTED. AAF FLANDERS PREPLEAT M13.
      i. 2" MEDIA - INITIAL CLEAN FILTER RESISTANCE 0.30" WATER GAGE MAXIMUM AT 500 FPM FACE VELOCITY.
   B. TEMPORARY FILTERS - PROVIDE TEMPORARY FILTERS FOR ALL FANS THAT ARE OPERATED DURING CONSTRUCTION. IN ADDITION TO TEMPORARY FILTERS AT FILTER LOCATION, PROVIDE TEMPORARY FILTERS ON ALL DUCT OPENINGS WHICH WILL OPERATE UNDER A NEGATIVE PRESSURE. AFTER ALL CONSTRUCTION DIRT HAS BEEN REMOVED FROM THE BUILDING, INSTALL NEW FILTERS AT NO ADDITIONAL COST TO OWNER.
      i. FILTERS USED FOR TEMPORARY OPERATION SHALL BE THE SAME AS PERMANENT FILTERS FOR THE APPLICATION.
      ii. FILTERS USED FOR DUCT OPENINGS MAYBE 1" THICK PLEATED MEDIA, DISPOSABLE TYPE.

14. CLEAN EXISTING EQUIPMENT:
   A. ALL FILTERS ON EXISTING HVAC SYSTEMS SHALL BE REMOVED AND DISPOSED OF PRIOR TO CLEANING OF THE HVAC UNITS. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW MERV 13 THROW-AWAY FILTERS WITH HOLDING FRAMES UPON COMPLETION OF THE CLEANING PROCESS.
      i. ONE SPARE SET OF REPLACEMENT FILTERS FOR EACH UNIT SHALL BE PROVIDED AND TURNED OVER TO OWNER.
   B. ALL AIR CONDITIONING COILS SHALL BE CLEANED WITH A DETERGENT SOLUTION SPECIFICALLY DESIGNED FOR THIS PURPOSE. THIS PROCEDURE SHALL BE REPEATED UNTIL ALL COILS ARE RENDERED CLEAN. FINS SHALL BE COMBED.
   C. FAN AND FAN ASSEMBLIES SHALL BE THOROUGHLY CLEANED BY POWER VACUUMING AND POWER WASHING, DEGREASING, SCRAPPING, AND WIRE BRUSHING WHERE REQUIRED.
   D. ALL EVAPORATOR DRAIN PANS AND CONDENSATE LINES SHALL BE CLEANED.
   E. ALL CONDENSER FAN MOTORS AND BLOWER MOTORS SHALL BE OILED AND BEARING LUBRICATED IF NECESSARY.
   F. VERIFY AND CHARGE THE UNIT REFRIGERANT SYSTEM TO FULL CAPACITY.
   G. ANY DEFICIENCY NOTED SHALL BE REPORTED TO ENGINEER THROUGH THE ARCHITECT.

1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"

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DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

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MECHANICAL
STATE OF CALIFORNIA

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SPECS

Job No.: 5599.2

Sheet No.: M0.22

Release:
Issue Date
6/3/26

KEY NOTES

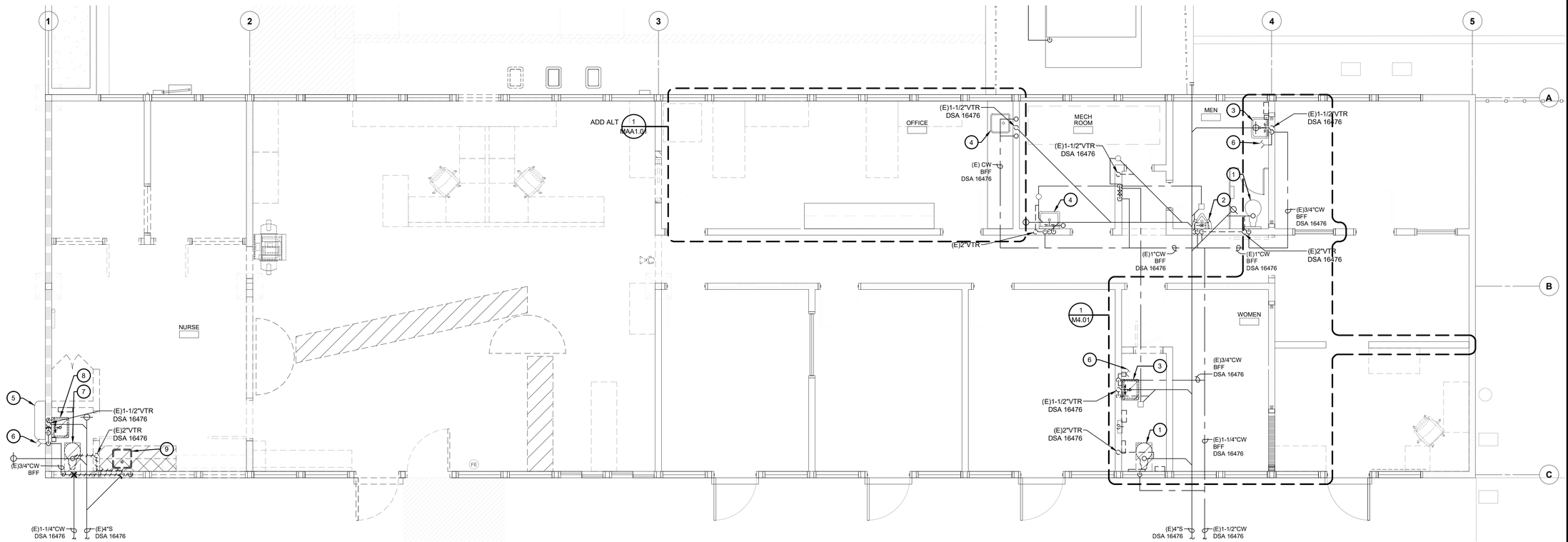
1. EXISTING WATER CLOSET TO REMAIN. PROTECT FROM DAMAGE.
2. EXISTING URINAL TO REMAIN. PROTECT FROM DAMAGE.
3. EXISTING LAV TO REMAIN. PROTECT FROM DAMAGE.
4. EXISTING SINK TO REMAIN. PROTECT FROM DAMAGE.
5. EXISTING DRINKING FOUNTAIN TO REMAIN. PROTECT FROM DAMAGE.
6. EXISTING HOSE BIBB TO REMAIN. PROTECT FROM DAMAGE.
7. REMOVE EXISTING WATER CLOSET AND ASSOCIATED PIPING. CAP PIPING BEHIND FINISH SURFACES. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
8. REMOVE EXISTING LAV AND ASSOCIATED PIPING. CAP PIPING BEHIND FINISH SURFACES. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
9. REMOVE EXISTING SINK AND ASSOCIATED PIPING. CAP PIPING BEHIND FINISH SURFACES. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.

WALL LEGEND

- (E) 1 HOUR FIRE RATED WALL. SEE ARCH PLANS.
- (E) 2x WALL. SEE ARCH PLANS.
- (N) 2x WALL OR INFILL WALL. SEE ARCH PLANS.

LEGEND

SYMBOL	DESCRIPTION	ABBR
S / 1	FIXTURE / EQUIP DESIGNATION FIXTURE / EQUIP ABBREVIATION NUMBER	S-1
	SOIL OR WASTE	S. W.
	VENT	V
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
CD	CONDENSATE DRAIN	CD
D	DRAIN	D
	FLOOR CLEANOUT OR CLEANOUT TO GRADE	FCO COTG
	WALL CLEANOUT	WCO
	VENT THROUGH ROOF	VTR
	GATE OR SHUTOFF VALVE	GV SOV
	UNION	
	ELBOW UP	
	ELBOW DOWN	
	REDUCER	RED
	HOSE BIBB	HB
	ABOVE FINISH FLOOR	AFF
	CAP	
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	POINT OF CONNECTION	POC
	TYPICAL	TYP



1 M2.11 PLUMBING PLAN - DEMO

ADMIN ALTERATIONS

SCALE: 1/4" = 1'

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Sheet Title:
PLUMBING PLAN

Job No.:
5599.2

Sheet No.:
M2.11

Release: _ Issue Date 6/3/26

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G:\2023frs\23-5599.2 Cooper Middle School\Sheets SCOTT DEWEY

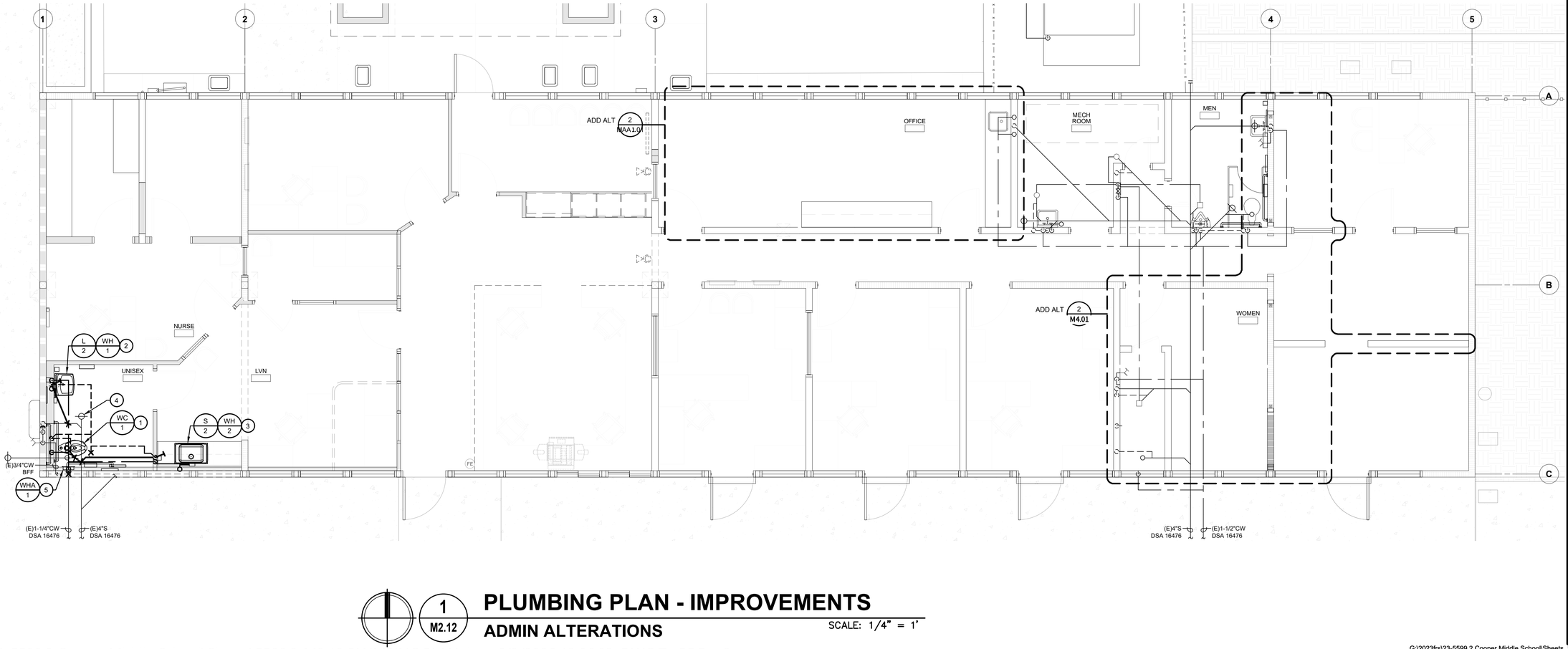
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KEY NOTES

1. NEW ADA WATER CLOSET. EXTEND PIPING AND CONNECT PLUMBING UTILITIES TO NEW WATER CLOSET: 1-1/2"CW, 4"S, 2"V. BRANCH 3/4"CW AND RE-CONNECT TO EXISTING PIPING IN WALL. PROVIDE NEW ROUGH-IN AS NEEDED. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
2. NEW ADA LAV AND INSTANTANEOUS ELECTRIC WATER HEATER. EXTEND PIPING AND CONNECT PLUMBING UTILITIES TO NEW LAV: 3/4"CW, 1/2"HW, 2"W, 1-1/2"V. BRANCH 1/2"CW TO INSTANTANEOUS ELECTRIC WATER HEATER BELOW LAV AND EXTEND 1/2"HW TO NEW LAV. SEE DETAILS 1 & 4/M0.11. PROVIDE NEW ROUGH-IN AS NEEDED. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
3. NEW ADA SINK AND INSTANTANEOUS ELECTRIC WATER HEATER. EXTEND PIPING AND CONNECT PLUMBING UTILITIES TO NEW SINK: 3/4"CW, 1/2"HW, 2"W WITH WCO, 1-1/2"V. BRANCH 1/2"CW TO INSTANTANEOUS ELECTRIC WATER HEATER BELOW SINK AND EXTEND 1/2"HW TO NEW SINK. SEE DETAIL 4/M0.11. PROVIDE NEW ROUGH-IN AS NEEDED. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
4. ADJUST EXISTING FLOOR CLEANOUT TO FLUSH WITH NEW FINISH FLOOR
5. CONNECT NEW 1-1/4"CW TO (E)1-1/4"CW IN WALL, RISE UP IN NEW WALL, AND OFFSET ABOVE NEW CEILING. PROVIDE SHUTOFF VALVE AND WATER HAMMER ARRESTER BEHIND WALL ACCESS PANEL AT +5'-0" ABOVE FINISH FLOOR.

WALL LEGEND

- (E) 1 HOUR FIRE RATED WALL. SEE ARCH PLANS.
- (E) 2x WALL. SEE ARCH PLANS.
- (N) 2x WALL OR INFILL WALL. SEE ARCH PLANS.

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	UNION	
	ELBOW UP	
	ELBOW DOWN	
	REDUCER	RED
	HOSE BIBB	HB
	ABOVE FINISH FLOOR	AFF
	CAP	
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	POINT OF CONNECTION	POC
	TYPICAL	TYP

1 / M2.12 **PLUMBING PLAN - IMPROVEMENTS**

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REGISTERED PROFESSIONAL ENGINEER
LISA LUK
32712
EXP. 6-30-27
MECHANICAL
STATE OF CALIFORNIA

Sheet Title:

PLUMBING PLAN

Job No.: **5599.2**

Sheet No.: **M2.12**

Release: Issue Date: 6/3/26

KEY NOTES

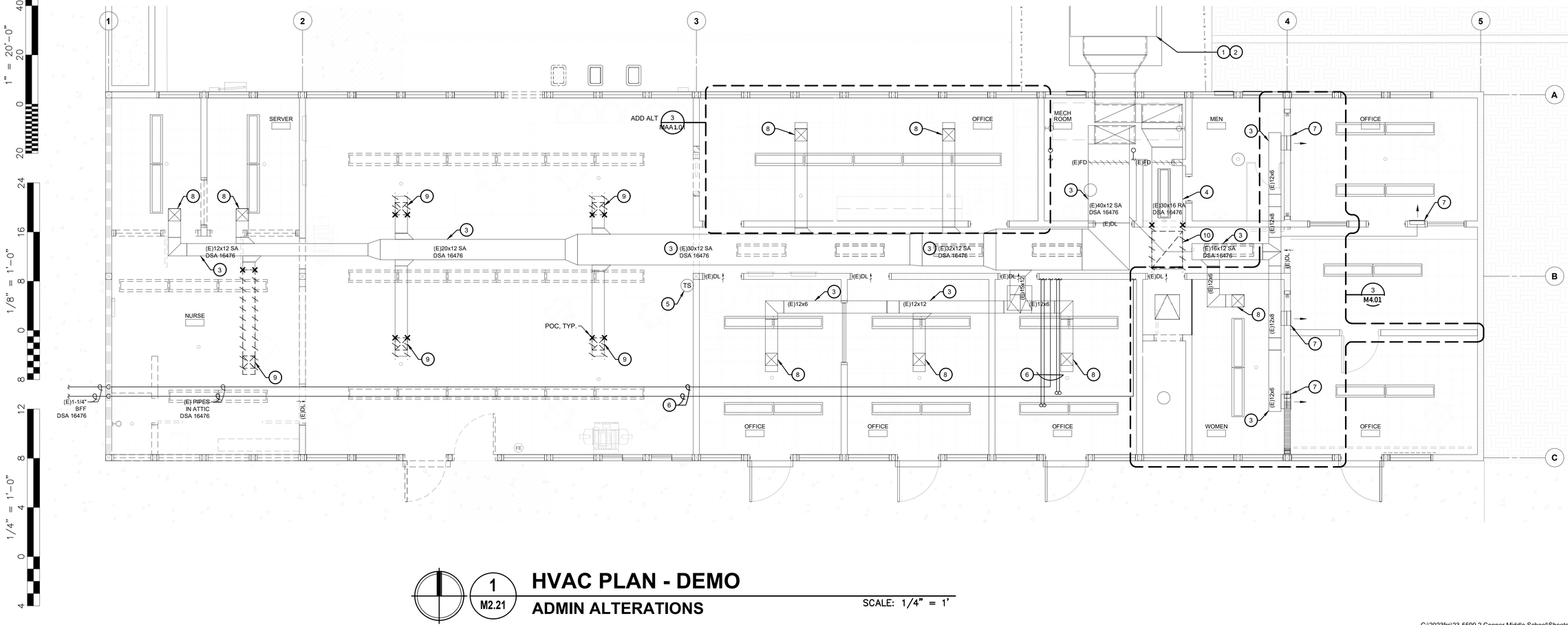
1. EXISTING PACKAGED HEAT/COOL UNIT ON CONCRETE PAD TO REMAIN. PROTECT FROM DAMAGE. DSA 46860
2. PRIOR TO DEMO WORK, TAB CONTRACTOR SHALL PERFORM SYSTEM TEST AND BALANCE OF EXISTING EQUIPMENT, ASSOCIATED DUCTWORK, AND GRILLES ANY OBVIOUS DEFICIENCIES SHALL BE IDENTIFIED AND REPORTED AT THAT TIME. SUBMIT REPORT WITH EQUIPMENT NAMEPLATE, GRILLE LOCATIONS, AND AIRFLOW QUANTITIES TO ENGINEER THROUGH ARCHITECT.
   CLEAN EXISTING EQUIPMENT AFTER INITIAL SYSTEM TEST AND BALANCE AND REPORT DEFICIENCIES PER SPEC.
3. EXISTING SUPPLY AIR DUCT ABOVE CEILING TO REMAIN. PROTECT FROM DAMAGE. FIELD VERIFY SIZE AND LOCATION.
4. EXISTING RETURN AIR DUCT ABOVE CEILING TO REMAIN. PROTECT FROM DAMAGE. FIELD VERIFY SIZE AND LOCATION.
5. EXISTING TEMPERATURE SENSOR ON WALL TO REMAIN. PROTECT FROM DAMAGE.
6. EXISTING ABANDONED PIPING ABOVE CEILING TO REMAIN. PROTECT FROM DAMAGE.
7. EXISTING SUPPLY AIR GRILLES IN WALL TO REMAIN. PROTECT FROM DAMAGE.
8. EXISTING SUPPLY AIR DIFFUSER IN CEILING TO REMAIN. PROTECT FROM DAMAGE.
9. REMOVE EXISTING SUPPLY AIR DIFFUSER IN CEILING AND PREPARE DUCTWORK FOR NEW CONNECTION. SEE HVAC IMPROVEMENTS PLAN.
10. REMOVE EXISTING RETURN AIR REGISTER IN CEILING AND PREPARE DUCTWORK FOR NEW CONNECTION. SEE HVAC IMPROVEMENTS PLAN.

WALL LEGEND

- (E) 1 HOUR FIRE RATED WALL. SEE ARCH PLANS.
- (E) 2x WALL. SEE ARCH PLANS.
- (N) 2x WALL OR INFILL WALL. SEE ARCH PLANS.

LEGEND

SYMBOL	DESCRIPTION	ABBR
HP 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	HP-1
A 10x10-3 120	GRILLE DESIGNATION / NECK SIZE & BLOW / CFM	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EXH
	ACOUSTIC LINED DUCT	(L)
	DUCT RISER	
	DUCT DROP	
	SQUARE TO ROUND FITTING	
	FIRE DAMPER	FD
	FIRE/SMOKE DAMPER	FSD
SD	DUCT SMOKE DETECTOR	SD
	VOLUME CONTROL DAMPER	VCD
CO2	CARBON DIOXIDE SENSOR AT 48" MAXIMUM TO TOP OF BOX	CO2
S	SWITCH	
TS	TEMPERATURE SENSOR AT 48" MAXIMUM TO TOP OF DEVICE	
	ABOVE FINISH FLOOR	AFF
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
X	POINT OF CONNECTION	POC
	TYPICAL	TYP



1 M2.21 HVAC PLAN - DEMO

ADMIN ALTERATIONS

SCALE: 1/4" = 1'

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DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL

2277 W BELLAIRE WAY.
FRESNO, CA 93705

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by SOMAM, Inc.

ARCHITECTURE
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Sheet Title:
HVAC PLAN

Job No.:
5599.2

Sheet No.:
M2.21

Release: _ Issue Date

KEY NOTES

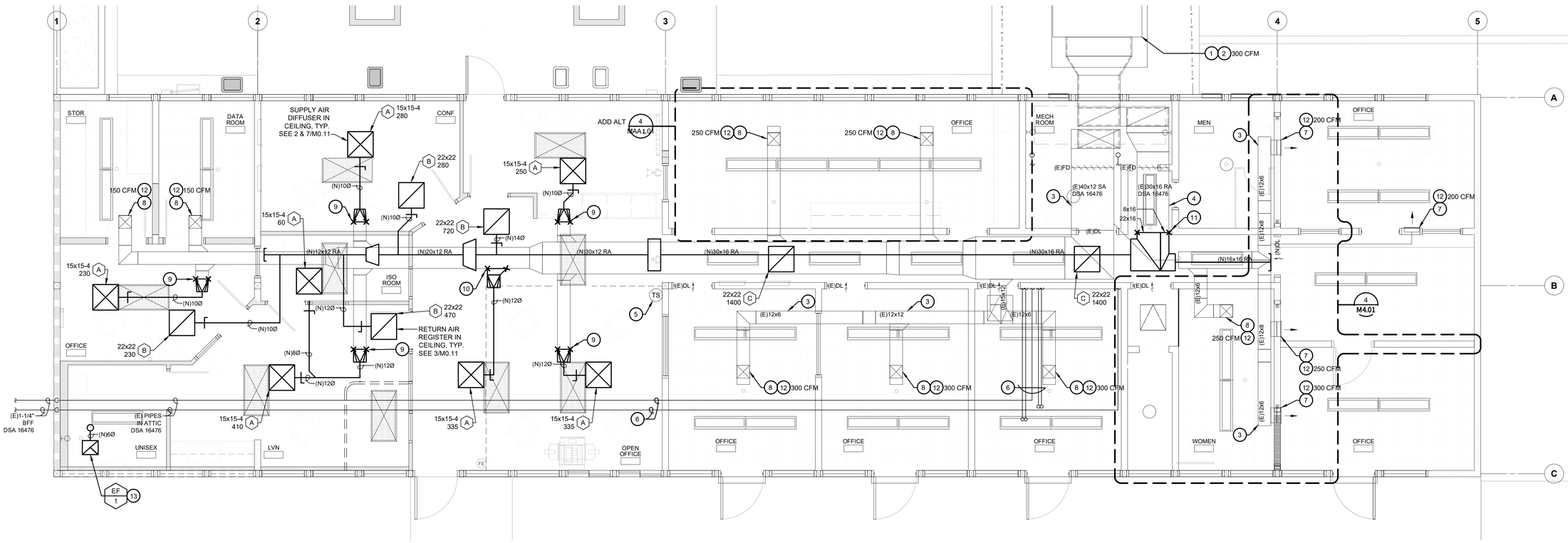
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2. AFTER IMPROVEMENT WORK IS COMPLETE, TAB CONTRACTOR TO PERFORM SYSTEM TEST AND BALANCE OF EXISTING EQUIPMENT, MODIFIED DUCTWORK, AND GRILLES. SET OSA TO AIRFLOW QUANTITY INDICATED.
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7. EXISTING SUPPLY AIR GRILLES IN WALL TO REMAIN. PROTECT FROM DAMAGE.
8. EXISTING SUPPLY AIR DIFFUSER IN CEILING TO REMAIN. PROTECT FROM DAMAGE.
9. POC NEW DUCT TO EXISTING 12x8 SUPPLY DUCT ABOVE CEILING. FIELD VERIFY SIZE AND LOCATION.
10. POC NEW 12x8 DUCT WITH ANGULAR TAP TO EXISTING MAIN SUPPLY DUCT ABOVE CEILING. FIELD VERIFY SIZE AND LOCATION. SEE 6/M0.11
11. POC NEW DUCTS TO EXISTING 30x16 MAIN RETURN DUCT ABOVE CEILING. FIELD VERIFY SIZE AND LOCATION.
12. BALANCE TO AIRFLOW QUANTITY INDICATED
13. NEW CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP. SEE 4/M0.11

WALL LEGEND

- (E) 1 HOUR FIRE RATED WALL. SEE ARCH PLANS.
- (E) 2x WALL. SEE ARCH PLANS.
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	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
X	POINT OF CONNECTION	POC
	TYPICAL	TYP



HVAC PLAN - IMPROVEMENTS

ADMIN ALTERATIONS

1 / M2.22

SCALE: 1/4" = 1'

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REGISTERED PROFESSIONAL ENGINEER — LISA LU — 32712 — EXP. 6-30-26 — MECHANICAL — STATE OF CALIFORNIA

Sheet Title:

HVAC PLAN

Job No.: **5599.2**

Sheet No.: **M2.22**

Release: Issue Date: 6/3/26

G:\2023frs\23-5599.2 Cooper Middle School\Sheets SCOTT DEWEY

G:\2023frs\23-5599.2 Cooper Middle School\Sheets\5599.2-M2.22 HVAC PLAN.dwg, 6/3/2026 13:06:09, DWG To PDF.pc3

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	2025-12-01T11:34:47-05:00

I. 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

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 8 of 8)**
Project Address:	**Date Prepared:**	2025-12-01T11:34:47-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Steve Dangelat	Documentation Author Signature: Steven Dangelat
Company: Integrated Designs	Signature Date: 12/1/25
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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: LISA LUM	Responsible Designer Signature:
Company:	Date Signed: 12/1/25
Address:	License: M32712
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	2025-12-01T11:34:47-05:00

F. DOMESTIC HOT WATER EQUIPMENT

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	2025-12-01T11:34:47-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 6 of 8)**
	Date Prepared:	2025-12-01T11:34:47-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity {d:gte/} 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 1 of 8)**
Project Address:	**Date Prepared:**	2025-12-01T11:34:47-05:00

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Fresno	02 Climate Zone	13
03	Occupancy Types Within Project (select all that apply):			
● School or Classroom				

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.5/ 170.2(d) and 141.0(a)/180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type [1,2]	System Components		
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

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

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: FUSD Cooper Middle School - Admin Alterations	**Report Page:**	**(Page 2 of 8)**
	Date Prepared:	2025-12-01T11:34:47-05:00

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Domestic Water Heating System
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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
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	Date Prepared:	2025-12-01T17:23:15-05:00

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04		05		06		
System Name	WH-1	Exception to 140.5(c)/170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %	
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Consumer Rated Electric Instantaneous (<=12kW)	<=2		0<= GPM <1.7	0.91	0.91	UEF		
WH-2	Consumer Rated Electric Instantaneous (<=12kW)	<=2		0<= GPM <1.7	0.91	0.91	UEF		
WH-1	Consumer Rated Electric Instantaneous (<=12kW)	<=2		0<= GPM <1.7	0.91	0.91	UEF		

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*
[2] *FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

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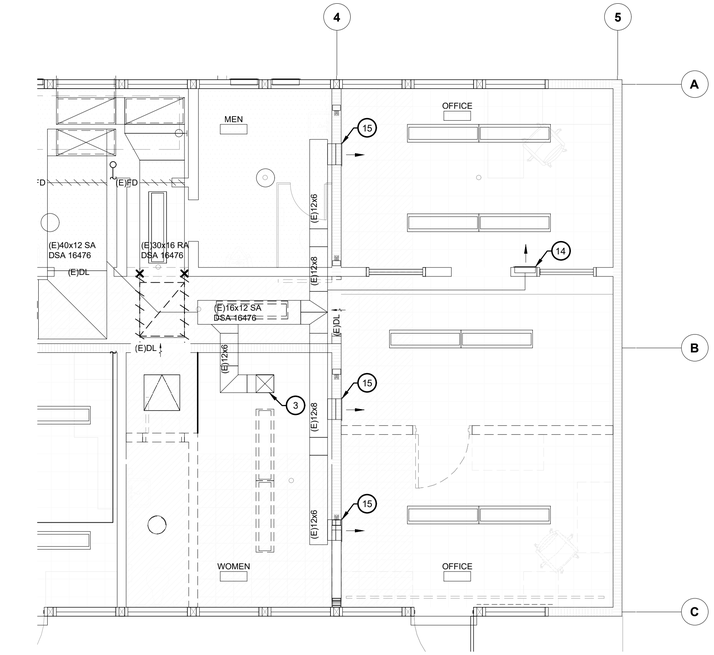
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Sheet Title:
T24 DOCS

Job No.:
5599.2

Sheet No.:
M3.01

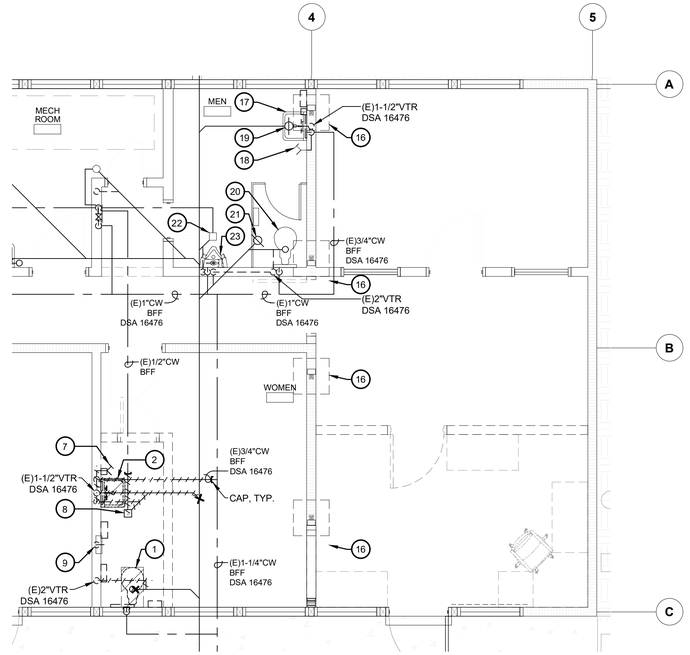
Release: Issue Date



3 M4.01 HVAC PLAN - DEMO

ADMIN ALTERATIONS

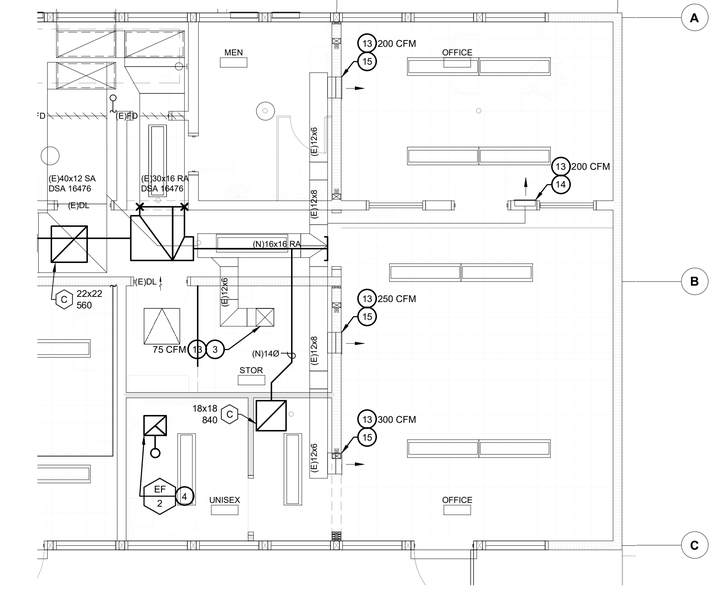
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1 M4.01 PLUMBING PLAN - DEMO

ADMIN ALTERATIONS

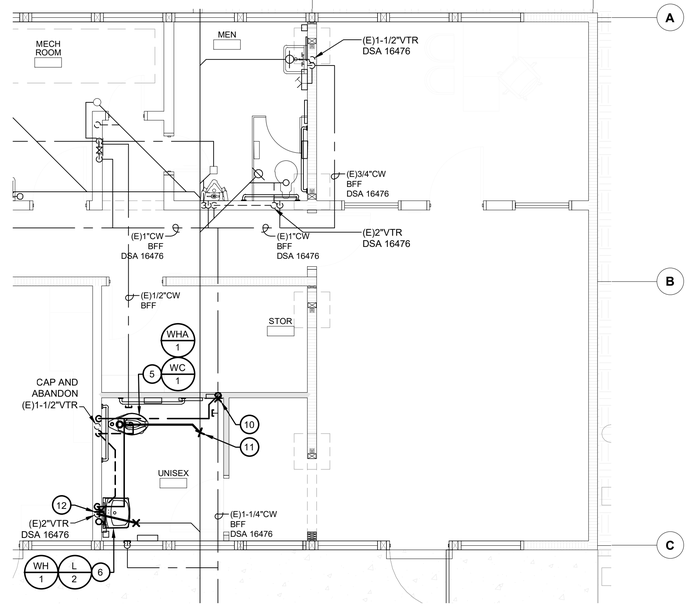
SCALE: 1/4" = 1'



4 M4.01 HVAC PLAN - IMPROVEMENTS

ADMIN ALTERATIONS

SCALE: 1/4" = 1'



2 M4.01 PLUMBING PLAN - IMPROVEMENTS

ADMIN ALTERATIONS

SCALE: 1/4" = 1'

KEY NOTES

1. REMOVE EXISTING WATER CLOSET AND ASSOCIATED PIPING. SAWCUT AND PATCH AS NEEDED. INFILL, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
2. REMOVE EXISTING WALL HUNG LAV AND ASSOCIATED PIPING. CAP VENT PIPING ABOVE AND BELOW ROOF STRUCTURE, ABANDON VTR IN PLACE. INFILL, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES. PAINT EXPOSED VTR AND CAP TO MATCH ADJACENT SURFACES.
3. EXISTING SUPPLY AIR DIFFUSER IN CEILING TO REMAIN. PROTECT FROM DAMAGE.
4. NEW CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP. SEE 4/M0.11
5. NEW ADA WATER CLOSET. EXTEND PIPING AND CONNECT PLUMBING UTILITIES TO NEW WATER CLOSET: 1-1/4"CW, 4"S, 2"V. PROVIDE NEW ROUGH-IN AS NEEDED. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
6. NEW ADA LAV AND INSTANTANEOUS ELECTRIC WATER HEATER. EXTEND PIPING AND CONNECT PLUMBING UTILITIES TO NEW LAV: 3/4"CW, 1/2"HW, 2"W, 1-1/2"V. BRANCH 1/2"CW TO INSTANTANEOUS ELECTRIC WATER HEATER BELOW LAV AND EXTEND 1/2"HW TO NEW LAV. SEE DETAILS 1 & 4/M0.11. PROVIDE NEW ROUGH-IN AS NEEDED. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
7. REMOVE EXISTING HOSE BIBB ON WALL AND ASSOCIATED PIPING. CUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
8. REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED PIPING. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
9. REMOVE EXISTING ABANDONED VENT IN WALL AND ABOVE CEILING. CUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
10. POC NEW 1-1/4"CW TO EXISTING WATER MAIN BELOW FLOOR, EXTEND PIPING UP IN NEW WALL TO SOV CENTERED BEHIND WALL ACCESS PANEL, AND OFFSET ABOVE CEILING. FIELD VERIFY SERVICE, SIZE, AND LOCATION. SAWCUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
11. POC NEW 4"S TO EXISTING SEWER MAIN BELOW FLOOR. FIELD VERIFY SERVICE, SIZE, AND LOCATION. SAWCUT AND PATCH TO MATCH ADJACENT SURFACES.
12. POC NEW 2"V TO EXISTING VTR. FIELD VERIFY SERVICE, SIZE, AND LOCATION. CUT, PATCH, TEXTURE, AND PAINT OPENINGS TO MATCH ADJACENT SURFACES.
13. BALANCE TO AIRFLOW QUANTITY INDICATED
14. EXISTING SUPPLY AIR GRILLE ON WALL TO REMAIN. PROTECT FROM DAMAGE.
15. EXISTING WALL FINISH TO BE REMOVED. SEE ARCH PLANS. REMOVE AND CLEAN EXISTING GRILLE. TOUCH-UP PAINTING AS NEEDED AND RE-INSTALL IN NEW WALL FINISH.
16. NEW HOLD DOWN FOOTING. SEE ARCH PLANS. PROTECT EXISTING PLUMBING UTILITIES IN AREA OF WORK. FIELD VERIFY LOCATION, SERVICE, AND SIZE. IF EXISTING PLUMBING UTILITIES CONFLICT WITH NEW FOOTING, RE-ROUTE AROUND FOOTING, AND NOTIFY ENGINEER THROUGH THE ARCHITECT IMMEDIATELY.
17. EXISTING WALL HUNG LAV TO REMAIN. PROTECT FROM DAMAGE.
18. EXISTING HOSE BIBB TO REMAIN. PROTECT FROM DAMAGE.
19. EXISTING FLOOR TO BE REMOVED. SEE ARCH PLANS. REMOVE EXISTING FLOOR CLEANOUT, SCRUB CLEAN, AND RE-INSTALL FLUSH IN NEW FLOOR OR PROVIDE NEW CLEANOUT.
20. EXISTING FLOOR TO BE REMOVED. SEE ARCH PLANS. REMOVE FLOOR MOUNT WATER CLOSET, SCRUB CLEAN, AND RE-INSTALL IN NEW FLOOR.
21. EXISTING FLOOR CLEANOUT TO REMAIN. PROTECT FROM DAMAGE.
22. EXISTING FLOOR DRAIN TO REMAIN. PROTECT FROM DAMAGE.
23. EXISTING WALL HUNG URINAL TO REMAIN. PROTECT FROM DAMAGE.

LEGEND

SYMBOL	DESCRIPTION	ABBR
HP 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	HP-1
HB 1	FIXTURE / EQUIP DESIGNATION FIXTURE / EQUIP ABBREVIATION NUMBER	HB-1
A 10x10-3 120	GRILLE DESIGNATION NECK SIZE & BLOW CFM	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EXH
	ACOUSTIC LINED DUCT	(L)
	DUCT RISER	
	DUCT DROP	
	SQUARE TO ROUND FITTING	
SD	DUCT SMOKE DETECTOR	SD
	VOLUME CONTROL DAMPER	VCD
CO2	CARBON DIOXIDE SENSOR AT 48" MAXIMUM TO TOP OF BOX	CO2
S	SWITCH	
T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
	SOIL OR WASTE	S. W.
	VENT	V
CW	DOMESTIC COLD WATER	CW
HW	DOMESTIC HOT WATER	HW
CD	CONDENSATE DRAIN	CD
D	DRAIN	D
	FLOOR CLEANOUT OR CLEANOUT TO GRADE	FCO COTG
	WALL CLEANOUT	WCO
	VENT THROUGH ROOF	VTR
	GATE OR SHUTOFF VALVE	GV SOV
	UNION	
	ELBOW UP	
	ELBOW DOWN	
	REDUCER	RED
	HOSE BIBB	HB
	ABOVE FINISH FLOOR	AFF
	CAP	
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
	POINT OF CONNECTION	POC
	TYPICAL	TYP

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DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT
2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

Project Address:

COOPER MIDDLE SCHOOL
2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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REGISTERED PROFESSIONAL ENGINEER
LISA LUI
32712
EXP. 6-30-26
MECHANICAL
STATE OF CALIFORNIA

Sheet Title:

UNISEX TOILET - 112
MECHANICAL PLANS

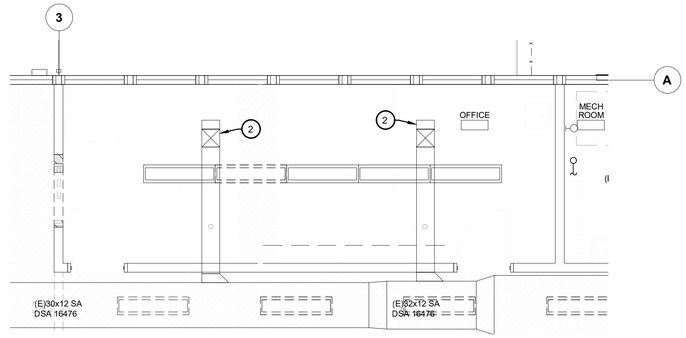
Job No.: **5599.2**

Sheet No.: **M4.01**

Release: Issue Date 6/3/26

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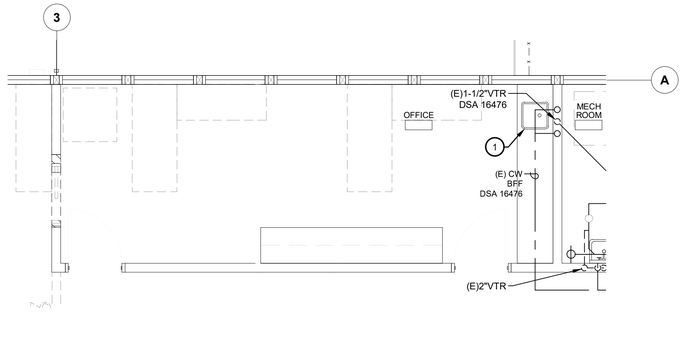
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ADD ALT #1
HVAC PLAN - DEMO
ADMIN ALTERATIONS

3 MAA1.01

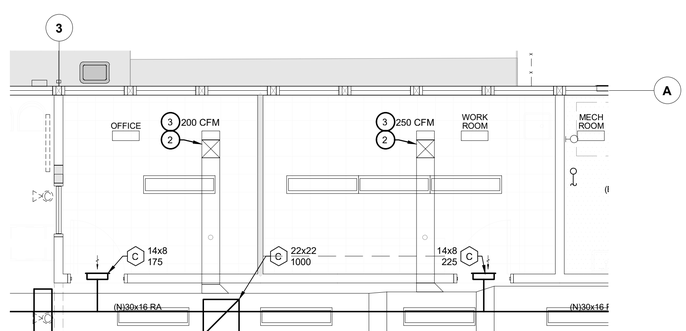
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ADD ALT #1
PLUMBING PLAN - DEMO
ADMIN ALTERATIONS

1 MAA1.01

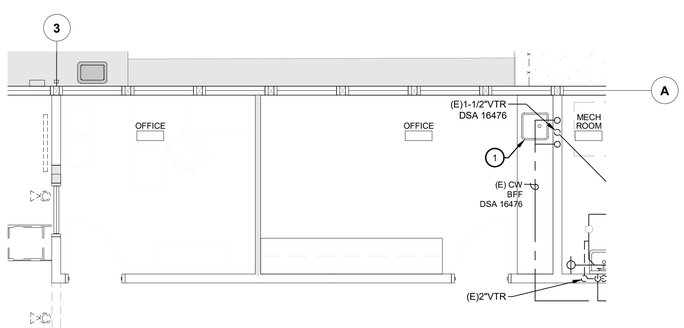
SCALE: 1/4" = 1'



ADD ALT #1
HVAC PLAN - IMPROVEMENTS
ADMIN ALTERATIONS

4 MAA1.01

SCALE: 1/4" = 1'



ADD ALT #1
PLUMBING PLAN - IMPROVEMENTS
ADMIN ALTERATIONS

2 MAA1.01

SCALE: 1/4" = 1'

KEY NOTES

1. EXISTING SINK TO REMAIN. PROTECT FROM DAMAGE.
2. EXISTING SUPPLY AIR DIFFUSER IN CEILING TO REMAIN. PROTECT FROM DAMAGE.
3. BALANCE TO AIRFLOW QUANTITY INDICATED

LEGEND

SYMBOL	DESCRIPTION	ABBR
HP 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	HP-1
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	DUCT DROP	
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	VENT	V
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
CD	CONDENSATE DRAIN	CD
D	DRAIN	D
	FLOOR CLEANOUT OR CLEANOUT TO GRADE	FCO COTG
	WALL CLEANOUT	WCO
	VENT THROUGH ROOF	VTR
	GATE OR SHUTOFF VALVE	GV SOV
	UNION	
	ELBOW UP	
	ELBOW DOWN	
	REDUCER	RED
	HOSE BIBB	HB
	ABOVE FINISH FLOOR	AFF
	CAP	
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
X	POINT OF CONNECTION	POC
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REGISTERED PROFESSIONAL ENGINEER
LISA LUM
32712
EXP. 6-30-27
MECHANICAL
STATE OF CALIFORNIA

MECHANICAL PLANS - ADD ALTERNATE #1

Job No.: **5599.2**

Sheet No.: **MAA1.01**

Release: Issue Date

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APPLICABLE CODE REQUIREMENTS

PERFORMANCE OF THE WORK OF THIS CONTRACT SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE GOVERNING CODES AND ORDINANCES INCLUDING THE FOLLOWING:

2025	BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022	CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2021 IBC, VOLUMES 1-3 WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. (2021 N.E.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R (2021 U.M.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2021 U.P.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 I.F.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
NFPA 13	AUTOMATIC SPRINKLER SYSTEM ----------2022 EDITION
NFPA 14	STANDPIPE SYSTEM ----------2019 EDITION
NFPA 17A	WET CHEMICAL SYSTEM ----------2021 EDITION
NFPA 24	PRIVATE SERVICE MAINS ----------2019 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE ----------2022 EDITION (NOTE SEE UL STANDARDS 1971 FOR ("VISUAL DEVICES")

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

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

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7 AND 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ OPTION 1: PROJECT-SPECIFIC DESIGN.
MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

(E) PANEL " G "

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 225A | LOC.: SEE PLAN | MTG.:

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIR		CIR	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXSISTING LOAD							1	20	1		2	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	3		4	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	5		6	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	7		8	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	9		10	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	11		12	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	13		14	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	15		16	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	17		18	20	1							EXSISTING LOAD
EXSISTING LOAD							1	20	19		20	40	1							EXSISTING LOAD
EXSISTING LOAD							1	20	21		22	X	X							EXSISTING LOAD
EXSISTING LOAD							1	20	23		24	20	1							EXSISTING LOAD
(N) WATER HEATER 1	**3500**						**1**	**30**	25		26	**30**	**2**				**3250**			**(N) WATER HEATER 2**
N) RESTROOM RECEPS		**540**					**1**	**20**	27		28	**X**	**X**					**3250**		"
(N) WATER HEATER 1			**3500**				**1**	**30**	29	* **	30	**20**	**1**						**900**	**(N) OFFICE RECEPS**
									31		32	**20**	**1**				**1260**			**(N) CONFERENCE ROOM**
(N) OFFICE & LOBBY		**720**					**1**	**20**	33		34	**20**	**1**					**1440**		**(N) OFFICE RECEPS**
(N) REFRIGERATOR			**1000**				**1**	**20**	35		36	**20**	**1**						**1000**	**(N) PRINTER**
									37		38									
									39		40									
									41		42									
	3500	1260	4500														4510	4690	1900	

TOTAL WATTS= 20360 ΦA= 8010 ΦB= 5950 ΦC= 6400
AMPS= 56.514 MINIMUM BKR A.I.C. RATING= 10,000 AMPS SYM

*IF ADD ALT #1 HAPPENS
** IF ADD ALT #2 HAPPENS

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS
SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
7. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
8. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
9. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
10. ALL CONDUCTORS SHALL BE IN CONDUIT.
11. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

ACCESSIBILITY NOTES
Installation of switches, outlets and controls to reflect the accessibility requirements of the 2022 CBC Chapters 11A and 11B for Accessibility.

1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

4. CBC 11B-308.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased to 48".

6.Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

SYMBOLS

- CONDUIT EXISTING
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- CONDUIT STUBBED OUT AND CAPPED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12
- A-3 HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
- SAWCUT
- GROUND CONNECTION
- DISTRIBUTION SWITCHBOARD OR PANEL
- PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
- SIGNAL TERMINAL CABINET, SURFACE & FLUSH
- LINEAR SURFACE FIXTURE
- 2 a OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
- SURFACE FIXTURE ON FLUSH OUTLET.
- RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
- EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
- LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
- A 100 LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
- FC 1 MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
- SPECIAL RECEPTACLE - SEE PLAN
- (M) METER
- FLUSH FLOOR RECEPTACLE
- RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.
- DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
- DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
- GFI GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- CEILING RECEPTACLE
- RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
- J JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
- T THERMOSTAT F.B.O. +48"
- (2) MOTOR, NO. INDICATES HORSEPOWER
- CLOCK OUTLET +7'-6" U.N.O.
- DISCONNECT SWITCH, NON-FUSED
- F DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
- MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
- D DIMMER W/INTEGRAL "ON-OFF" SW.
- PUSHBUTTON
- PC PHOTOCELL
- SD SMOKE DETECTOR
- TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
- CABLE TV OUTLET +18" U.N.O.
- M MOTION SENSOR
- $ EXISTING SWITCH
- S SINGLE POLE SWITCH
- ^{2} DOUBLE POLE SWITCH
- ^{3} THREE WAY SWITCH
- ^{P} SWITCH W/PILOT LT.
- ^{M} MANUAL MOTOR STARTER

(S, ^{2}, ^{3}, ^{P}: QUIET TOGGLE TYPE RATED AT 20A, 120/277V A.C. +42" U.N.O.)

FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTING
LST	LABOR SAVING TANDEM
MLO	MAIN LUGS ONLY
w/	WITH
C.O.	CONDUIT ONLY
W.P.	WEATHERPROOF
F.B.O.	FURNISHED BY OTHERS, INSTALL & CONNECT
U.N.O.	UNLESS NOTED OTHERWISE
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
S/M	SURFACE MOUNT
U/G	UNDERGROUND
CWP	COLD WATER PIPE
AFF	ABOVE FINISHED FLOOR
HACR	HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
N.L.	NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

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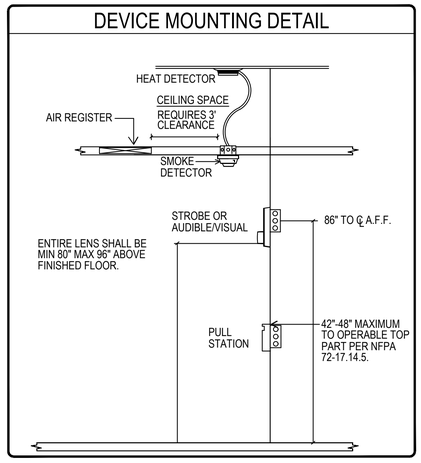
Sheet Title: **NOTES, SYMBOLS, SCHEDULES & DETAILS**

Job No.: **5599.2**

Sheet No.: **E0.01**

Release: _ Issue Date

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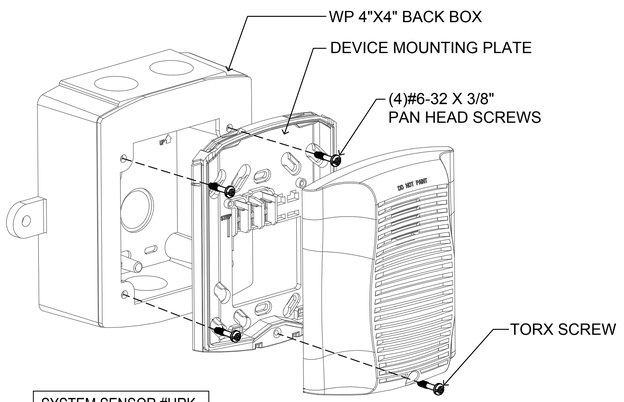
FIRE ALARM MOUNTING DETAIL

SCALE : NONE

A
E002

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

EACH DACT SHALL BE PROGRAMMED TO CALL A SECOND DACR LINE (NUMBER) WHEN THE SIGNAL TRANSMISSION SEQUENCE TO THE FIRST CALLED LINE (NUMBER) IS UNSUCCESSFUL. THE DACT SHALL BE CAPABLE OF SELECTING THE OPERABLE MEANS OF TRANSMISSION IN THE EVENT OF FAILURE OF THE OTHER MEANS. WHERE TWO TELEPHONE LINES (NUMBERS) ARE USED, IT SHALL BE PERMITTED TO TEST EACH TELEPHONE LINE (NUMBER) AT ALTERNATING 6-HOUR INTERVALS.



SYSTEM SENSOR #HRK
MAX WEIGHT IS < 1LBS.

MAXIMUM NUMBER OF CONDUCTORS			
AWG #18	AWG #16	AWG #14	AWG #12
8	8	8	8

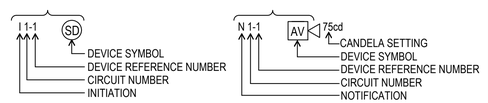
EXTERIOR WP FLUSH HORN MOUNTING DETAIL

SCALE : NONE

B
E002

DEVICE NUMBERING LEGEND

DEVICE ADDRESS:



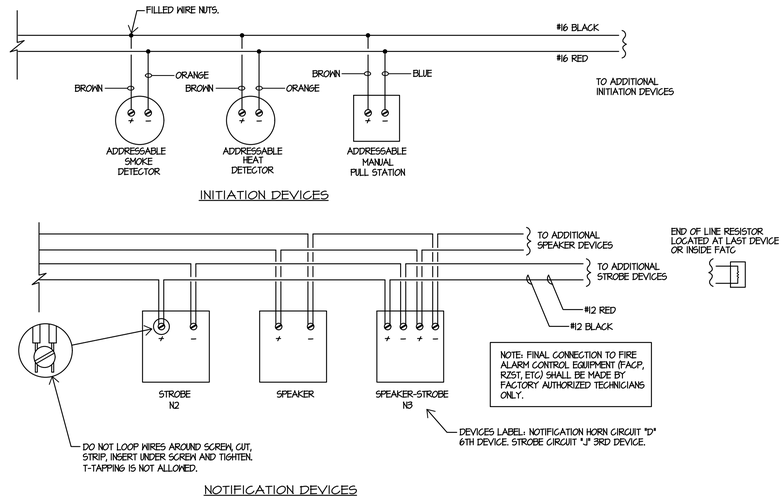
FIRE WATCH, FIRE MARSHAL REQUIREMENTS;

REQUIREMENTS FOR DISABLING THE FIRE ALARM SYSTEM;

1. AS REQUIRED BY THE **2022 CALIFORNIA FIRE CODE**, SECTION 901.7 AND SECTION 1404.5, STANDBY PERSONNEL OR SYSTEMS TEMPORARILY "OUT OF SERVICE". THE LOCAL FIRE MARSHAL IS AUTHORIZED TO REQUIRE THE CONTRACTOR TO PROVIDE STANDBY PERSONNEL AS SET FORTH IN THESE SECTIONS, UNTIL THE SYSTEM IS RESTORED TO OPERATION.
2. SUCH INDIVIDUAL SHALL BE SUBJECT TO THE LOCAL FIRE MARSHAL'S ORDER AT ALL TIMES WHEN SO EMPLOYED AND SHALL REMAIN ON DUTY DURING THE TIME SUCH PLACES ARE OPEN TO THE PUBLIC OR WHEN SUCH PUBLIC ACTIVITY IS BEING CONDUCTED. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT.
3. SUCH INDIVIDUALS SHALL KEEP A DILIGENT WATCH FOR FIRES AND BE ABLE TO TAKE PROMPT AND APPROPRIATE ACTION IN THE EVENT OF A FIRE. SUCH INDIVIDUALS SHALL NOT BE REQUIRED OR PERMITTED, WHILE ON DUTY, TO PERFORM ANY OTHER DUTIES THAN THESE HEREIN SPECIFIED.

FA SCOPE OF WORK

THIS IS AN ADDITION TO A FULLY ADDRESSABLE FIRE ALARM SYSTEM AUTOMATIC



FIRE ALARM DEVICES TYPICAL WIRING DETAIL

SCALE : NONE

D
E002

FIRE ALARM NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTSEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80A MINIMUM AND 96A MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90A MINIMUM AND 100A MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6A TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN/THWN.
16. PER CEC STANDARDS, ALL WIRING TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLIACE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1A FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED VER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. CONDUIT SHALL NOT.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE @ON POSITION. THE CIRCUIT BREAKER SHALL BE LABELED @FIRE ALARM CIRCUIT CONTROL CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED SYSTEM RECORD OF COMPLETION PER NFPA 72, FIGURE 17.8.2.
22. PROVIDE A DOCUMENT CAN WITH FIRE ALARM SYSTEM DATA SHEETS, PLANS RECORD OF COMPLETION & RECOUNT SYSTEM INSPECTION REPORT.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

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No. E13083
EXP. 08/30/2026
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STATE OF CALIFORNIA

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DATE: 06/08/2026

Owner:

Fresno Unified School District

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STATE OF CALIFORNIA

Sheet Title:

FIRE ALARM DETAILS

Job No.: **5599.2**

Sheet No.: **E0.02**

Release: _ Issue Date

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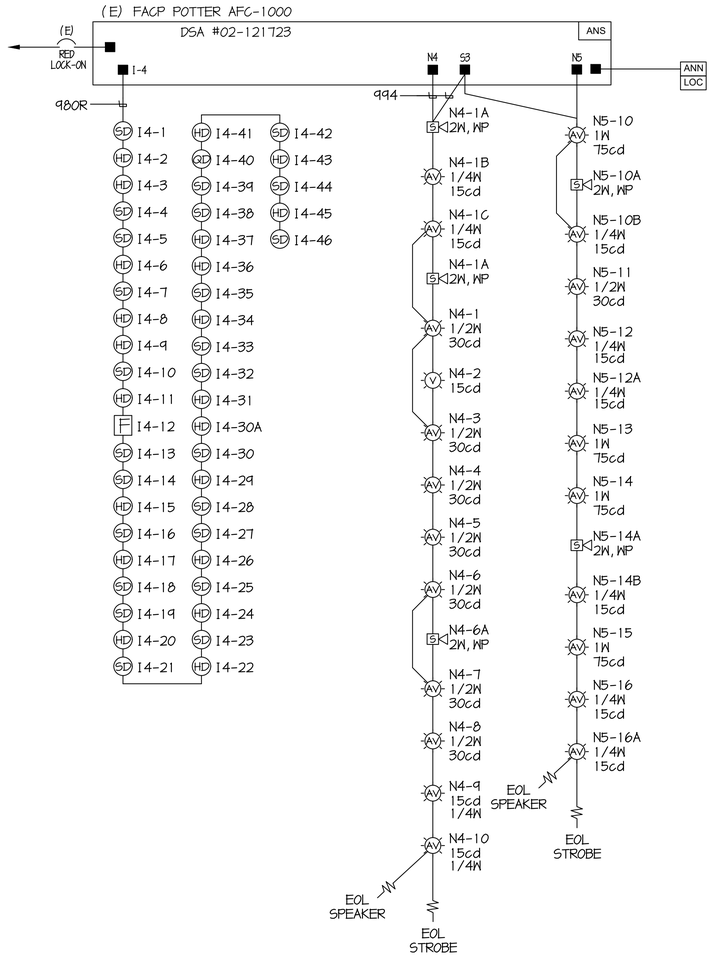
FIRE ALARM SYMBOL LIST MATRIX

SYMBOL	DESCRIPTION	MANUF / MODEL #	CSFM LISTING #	BACKBOX REQUIREMENTS
FACP / ANS	FIRE ALARM CONTROL PANEL "FACP" WITH INTERNAL DIGITAL ALARM COMMUNICATOR/TRANSMITTER AND AUDIO NOTIFICATION SYSTEM - VOICE EVACUATION	POTTER #AFC-1000 PVX-50	EXISTING	
ANN E	FIRE ALARM LCD ANNUNCIATOR	POTTER #RA-6500R	EXISTING	
LDC E	REMOTE MICROPHONE STATION WITH SUPERVISORY CARD	POTTER #PVX-RM	EXISTING	
SD	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	POTTER #PAD300-PD	7272-0328:0541	3.5" OCTAGAN BOX OR 4" OCTAGON BOX
HD	ADDRESSABLE PHOTOELECTIC HEAT DETECTOR	POTTER #PAD300-HD	7272-0328:0541	3.5" OCTAGAN BOX OR 4" OCTAGON BOX
AV	SPEAKER/STROBE CEILING MOUNTED (CANDELA RATING AS NOTED)	GENTEX #SSPK24CLPR	7320-0569:0137	4" SQ x 2 1/8" DP OUTLET BOX WITH 1 1/2" DP BOX EXTENSION
V	VISUAL STROBE CEILING MOUNTED (CANDELA RATING AS NOTED)	GENTEX #GCS24CR	7125-0569-0123	4" SQ x 2 1/8" DP OUTLET BOX WITH 1 1/2" DP BOX EXTENSION
S WP	EXTERIOR SPEAKER WALL MOUNTED	GENTEX #WSSPKR	7320-0569:0141	4" SQ x 2 1/8" DP OUTLET BOX WITH 1 1/2" DP BOX EXTENSION
EOL	END OF LINE RESISTOR			
	FPLR	WESTPENN 980R	18/2 BARE, CU SHIELDED	
	FPLR	WESTPENN 994	12/2 SOLID CU, UNSHIELDED	
	FPLR	WESTPENN AQC294	16/2 STRANDED, CU, SHEILDED W/ AQUASEAL	
	DETECTOR BASES	POTTER #PAD 300-4DB	7300-0328:0539	
QD	ADDRESSABLE PHOTOELECTRIC SMOKE/HEAT/CARBON MONOXIDE DETECTOR	POTTER #PAD 200-PCHD	7277-0328:0533	
	SMOKE/HEATER/CARBON MONOXIDE DETECTOR BASE	POTTER #PAD 100-4DB	7300-0328:0502	
F	PULL STATION	POTTER #PAD 100-PSDA	7150-0328:0201	

FIRE ALARM SEQUENCE OF OPERATION

INPUT & OUTPUT MATRIX

SYSTEM OUTPUTS	SYSTEM INPUTS: AREA SMOKE DETECTOR	AREA HEAT DETECTOR	DUCT SMOKE DETECTOR	FIRE ALARM SYSTEM AC POWER FAILURE	FIRE ALARM SYSTEM LOW BATTERY	OPEN CIRCUIT	GROUND FAULT	NOTIFICATION APPLIANCE CIRCUIT SHORT					
Control Unit Annunciation													
ACTUATE COMMON ALARM SIGNAL INDICATOR (RED LED)	●	●	●										
ACTUATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER)	●	●	●										
ACTUATE COMMON TROUBLE SIGNAL INDICATOR (AMBER LED)				●	●	●	●	●					
ACTUATE AUDIBLE COMMON TROUBLE SIGNAL (PIEZO BUZZER)				●	●	●	●	●					
Notification													
ACTUATE EVACUATION SIGNAL THROUGHOUT THE BUILDING SPEAKERS & SPEAKER/STROBES	●	●	●										
TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	●	●	●										
TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION													
TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION				●	●	●	●	●					
Supplementary													



FIRE ALARM RISER DIAGRAM

SCALE : NONE

A
E0.03

EXISTING FACP BATTERY CALCULATION FACP, POTTER AFC-1000

EQUIPMENT DESCRIPTION	QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) SUB-TOTAL
FIRE ALARM PANEL	1	0	0.2	0.2	0.555	0.555
DIGITAL ALARM COMMUNICATOR	1	0	0.04	0.04	0.04	0.04
FDM-1	0	0	0.00075	0	0.0064	0
Pull Station	0	1	0.0003	0.0003	0.0005	0.0005
SMOKE DETECTOR	16	25	0.00039	0.01599	0.00039	0.01599
HEAT DETECTOR	0	21	0.00035	0.00735	0.00035	0.00735
¼ Watt Speaker	0	0	0	0	0.017	0
½ Watt Speaker	0	8	0	0	0.034	0.272
1 Watt Speaker	0	4	0	0	0.068	0.272
2 Watt Speaker	0	4	0	0	0.132	0.528
VISUALS 15 cd	0	3	0	0	0.066	0.198
VISUALS 30 cd	0	8	0	0	0.077	0.616
VISUALS 75 cd	0	4	0	0	0.158	0.632
SUB TOTAL AMPERES			0.26364 AMPS		3.13684 AMPS	
			x 24 HOURS		X 0 25 HOURS	
SUB TOTAL AMPERE-HOURS			6.32736	A.H.	0.78421	A.H.
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE					7.11157	A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR					x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED					8.533884	A.H.
PROVIDED BATTERY CAPACITY					36.00	A.H.

VOLTAGE DROP CALCULATIONS

CIRCUIT	2x	LENGTH x	AMPS x	RESISTANCE x	= VOLTS	VOLTAGE DROP
N4	2	150	1.295	0.00205	0.796	3.32 %
N5	2	155	1.367	0.00205	0.869	3.62 %

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Sheet Title:
FIRE SPECS & CALCS

Job No.: **5599.2**

Sheet No.: **E0.03**

Release: _ Issue Date

STATE OF CALIFORNIA
Indoor Lighting
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 for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2026-04-08T11:43:12-04:00

A. GENERAL INFORMATION

01	Project Location (city)	FRESNO	04	Total Conditioned Floor Area (ft²)	3,378
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● School or Classroom

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 / §170.2(e) or §141.0(b)2 / §180.2(b)4 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	3378	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3378			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 2 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

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 /§170.2(e)	Allowed Lighting Power per §140.6(b) /§170.2(e) (Watts)					Adjusted Lighting Power per §140.6(a) /§170.2(e) (Watts)				Compliance Results
	01	02	03		04	05	06		07	08
	Complete Building §140.6(c)1	Area Category §140.6(c)2 /§170.2(e)4	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+)	=	**Total Allowed** (Watts)	≥ Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 /§170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6 /§170.2(e)**
	(See Table I)	(See Table I)	(See Table J)			(See Table F)	(See Table P)			
Conditioned		420.35		=	420.35	≥ 403		=	403	COMPLIES
Unconditioned				=		≥	0	=		
Controls Compliance (See Table H for Details)										COMPLIES
One-for-one Luminaire Alterations 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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 3 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire [2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Pass	Fail
A	1X4 FLAT PANEL	No	NA	31	Mfr. Spec	13	No	403	☐	☐
							Total Designed Watts: CONDITIONED SPACES	403		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls (Column 8)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 4 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) //§160.5(b)4C	Primary/Sky lit Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) /§160.5(b)4D	Interlocked Systems §140.6(a)1/ §170.2(e)2A	Pass	Fail
I.T. OFFICE	Electrical, Mechanical, or Telephone Room	Readily Accessible and located in the same space.	NA: Space <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
STAFF RESTROOM	Restroom	Readily Accessible and located in the same space.	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
							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	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area CategoryPAF	PAF
I.T. OFFICE	Electrical, Mechanical, or Telephone Room	0.4	734	293.6	No	No
STAFF RESTROOM	Restroom	0.65	195	126.75	No	No
		TOTALS:	929	420.35	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 5 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

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. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 6 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections 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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	I.T. OFFICE; STAFF RESTROOM

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COPPER MIDDLE SCHOOL	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2026-04-08T11:43:12-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 04-08-2026
Address: 146 EAST CARRILLO STREET	CEA/AEA/ECC Certification Identification (if applicable): E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)569-9216

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 Person Name: JOHN MALONEY	Responsible Person Signature:
Responsible Person Scope:	
Company: JMPE	Date Signed: 04-08-2026
Address: 146 EAST CARRILLO STREET	License: E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)569-9216

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL

2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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integrateddesigns.com

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Sheet Title:
INDOOR TITLE 24 FORMS

Job No.:
5599.2

Sheet No.:
E0.04

Release: _ Issue Date

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
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FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
25475

REGISTERED PROFESSIONAL ENGINEER JOHN MALONEY E013083 EXP. 06/30/2027 ELECTRICAL STATE OF CALIFORNIA

STATE OF CALIFORNIA
Indoor Lighting
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 for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2026-04-08T11:43:12-04:00

A. GENERAL INFORMATION

01	Project Location (city)	FRESNO	04	Total Conditioned Floor Area (ft²)	3,378
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● School or Classroom

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 / §170.2(e) or §141.0(b)2 / §180.2(b)4 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	3378	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3378			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 2 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

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 /§170.2(e)	Allowed Lighting Power per §140.6(b) /§170.2(e) (Watts)					Adjusted Lighting Power per §140.6(a) /§170.2(e) (Watts)				Compliance Results
	01	02	03		04	05	06		07	08
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 /§170.2(e)4 (See Table I)	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+) (See Table J)	=	**Total Allowed** (Watts)	≥ Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 /§170.2(e)1B (-) (See Table P)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6 /§170.2(e)**
Conditioned		420.35		=	420.35	≥ 403		=	403	COMPLIES
Unconditioned				=		≥	0	=		
									Controls Compliance (See Table H for Details)	COMPLIES
									One-for-one Luminaire Alterations 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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 3 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire [2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Pass	Fail
A	1X4 FLAT PANEL	No	NA	31	Mfr. Spec	13	No	403	☐	☐
							Total Designed Watts: CONDITIONED SPACES	403		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls (Column 8)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 4 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) //§160.5(b)4C	Primary/Sky lit Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) /§160.5(b)4D	Interlocked Systems §140.6(a)1/ §170.2(e)2A	Pass	Fail
I.T. OFFICE	Electrical, Mechanical, or Telephone Room	Readily Accessible and located in the same space.	NA: Space <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
STAFF RESTROOM	Restroom	Readily Accessible and located in the same space.	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
							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	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area CategoryPAF	PAF
I.T. OFFICE	Electrical, Mechanical, or Telephone Room	0.4	734	293.6	No	No
STAFF RESTROOM	Restroom	0.65	195	126.75	No	No
		TOTALS:	929	420.35	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 5 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

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. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 6 of 7)
	Date Prepared: 2026-04-08T11:43:12-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections 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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	I.T. OFFICE; STAFF RESTROOM

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: COOPER MIDDLE SCHOOL	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2026-04-08T11:43:12-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 04-08-2026
Address: 146 EAST CARRILLO STREET	CEA/AEA/ECC Certification Identification (if applicable): E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)569-9216

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 Person Name: JOHN MALONEY	Responsible Person Signature:
Responsible Person Scope:	
Company: JMPE	Date Signed: 04-08-2026
Address: 146 EAST CARRILLO STREET	License: E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)569-9216

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:
Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

2309 TULARE ST
FRESNO, CA

Project Name:
ADMIN ALTERATIONS

Project Address:
COOPER MIDDLE SCHOOL

2277 W BELLAIRE WAY.
FRESNO, CA 93705

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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

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ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
5500 MING AVENUE,
SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7951
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
25475
REGISTERED PROFESSIONAL ENGINEER JOHN MALONEY E013083 EXP. 06/30/26 ELECTRICAL STATE OF CALIFORNIA

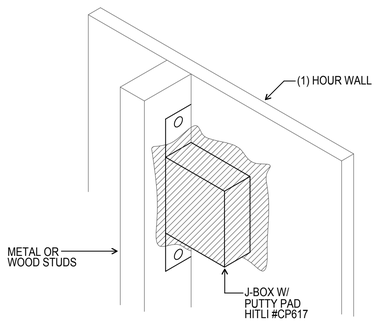
Sheet Title:
INDOOR TITLE 24 FORMS

Job No.:
5599.2

Sheet No.:
E0.05

Release: _ Issue Date
4/8/26

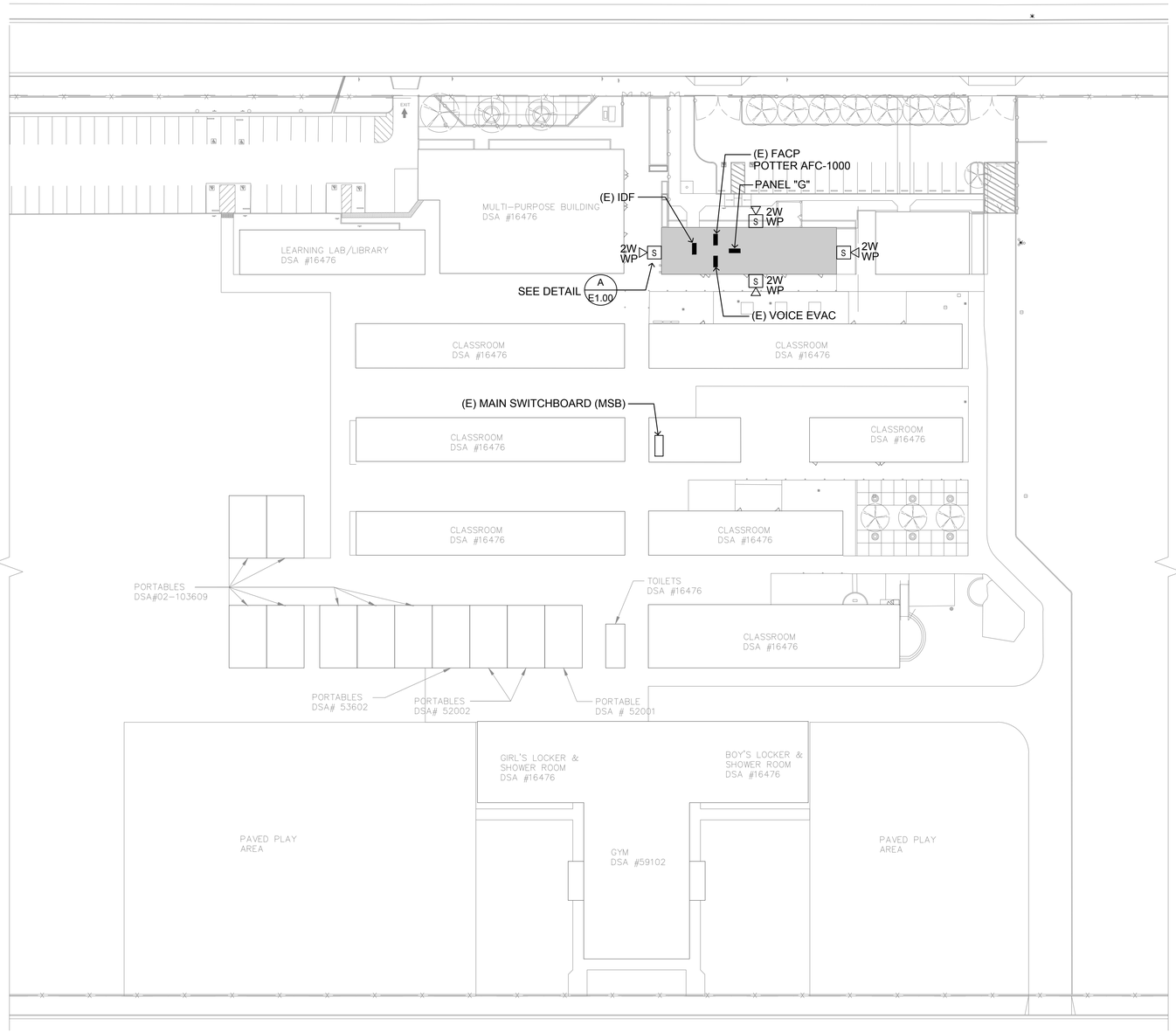
C:\Users\JMPE\JMPE Electrical Engineering\DWG - Documents\DWG\2025 DWGS\25475 JMPE



FIRE RATED WALL-FIRE STOPPING DETAIL

SCALENONE

A
E1.00



ELECTRICAL SITE PLAN

ADMIN ALTERATIONS

SCALE: 1" = 40'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123816 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/08/2026

Owner:

Fresno Unified School District

FRESNO UNIFIED SCHOOL DISTRICT

2309 TULARE ST
FRESNO, CA

Project Name:

ADMIN ALTERATIONS

Project Address:

COOPER MIDDLE SCHOOL

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integrateddesigns.com

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CURTIS E. FLYNN
REN. 5-31-27
STATE OF CALIFORNIA

Sheet Title:

ELECTRICAL SITE PLAN

Job No.:

5599.2

Sheet No.:

E1.00

Release: _ Issue Date

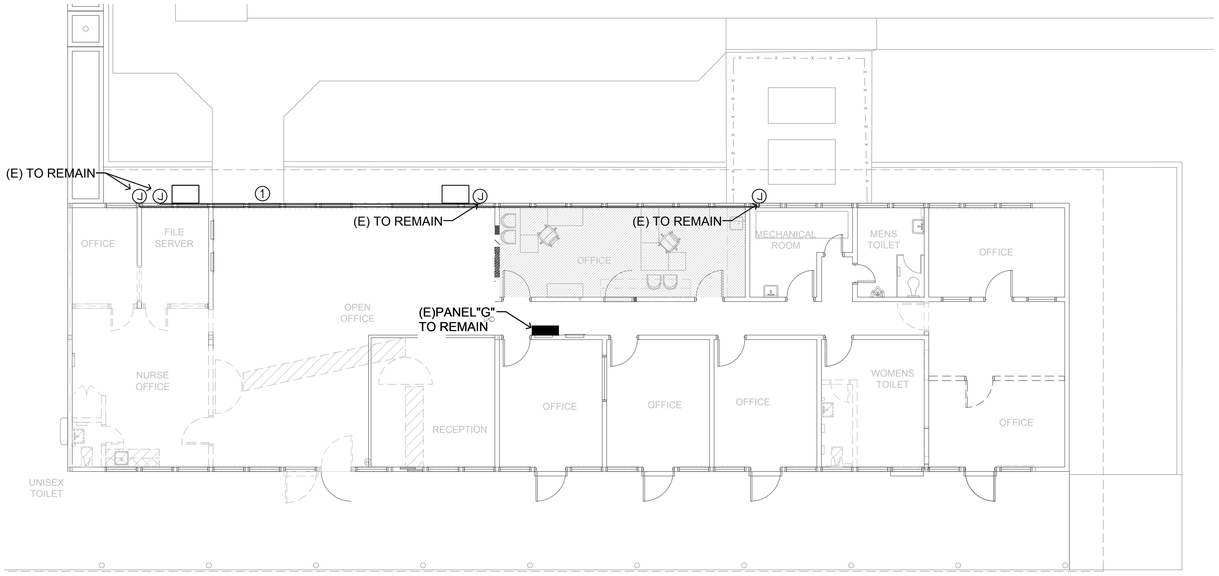
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FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

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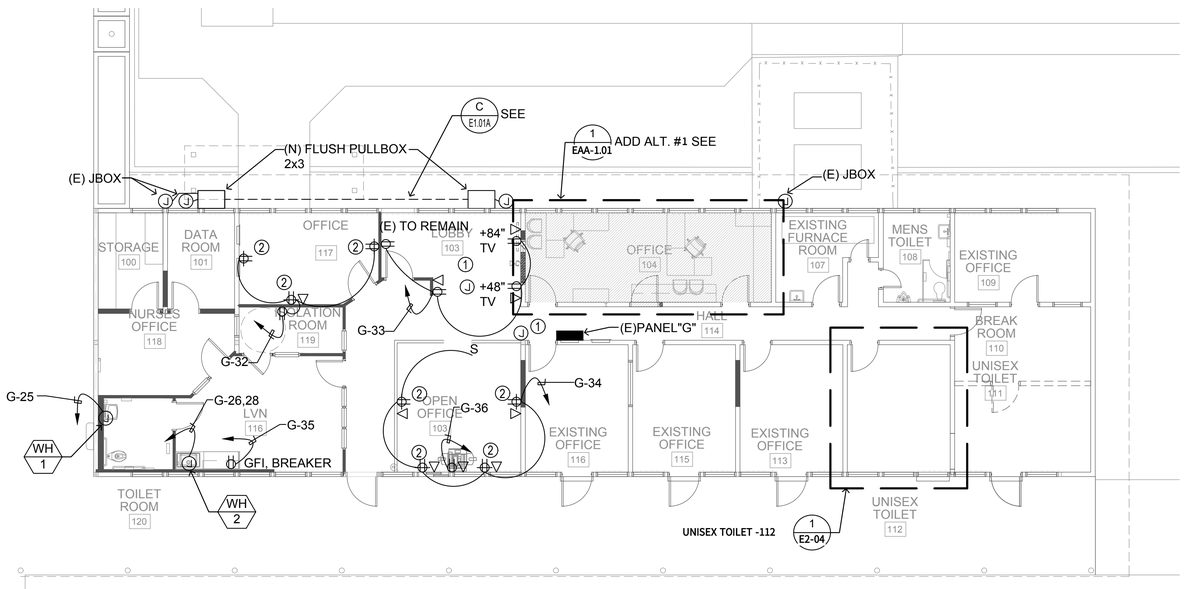
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JOSE M. MALONEY
No. E013083
EXP. 08/31/2027
ELECTRICAL
STATE OF CALIFORNIA

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DEMOLITION POWER PLAN

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



POWER PLAN

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

DEMO NOTES

1. ALL CONDUITS TO BE REMOVED AND REROUTED UNDERGROUND.

ELECTRICAL NOTES

1. PROVIDE BLANK BOX WITH 20' OF WIRE FOR FUTURE ACCESS CONTROL.
2. QUAD RECEPTACLES WITH ONE DUPLEX ON SWITCHED CIRCUIT.

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Sheet Title:
DEMO & POWER PLANS

Job No.: **5599.2**

Sheet No.: **E1.01**

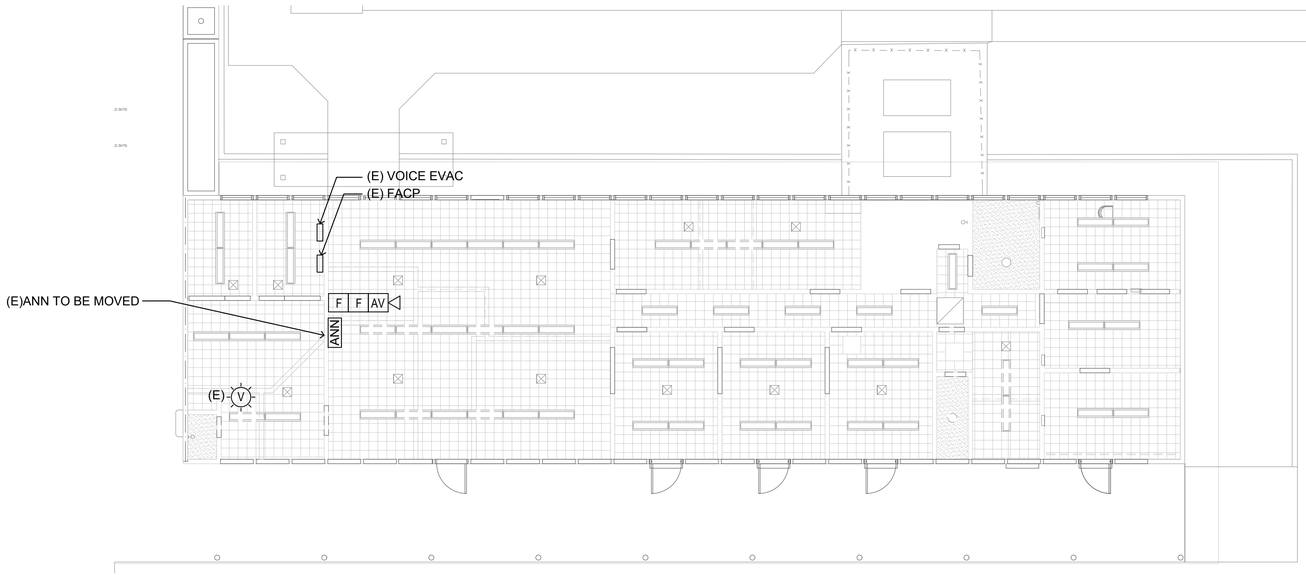
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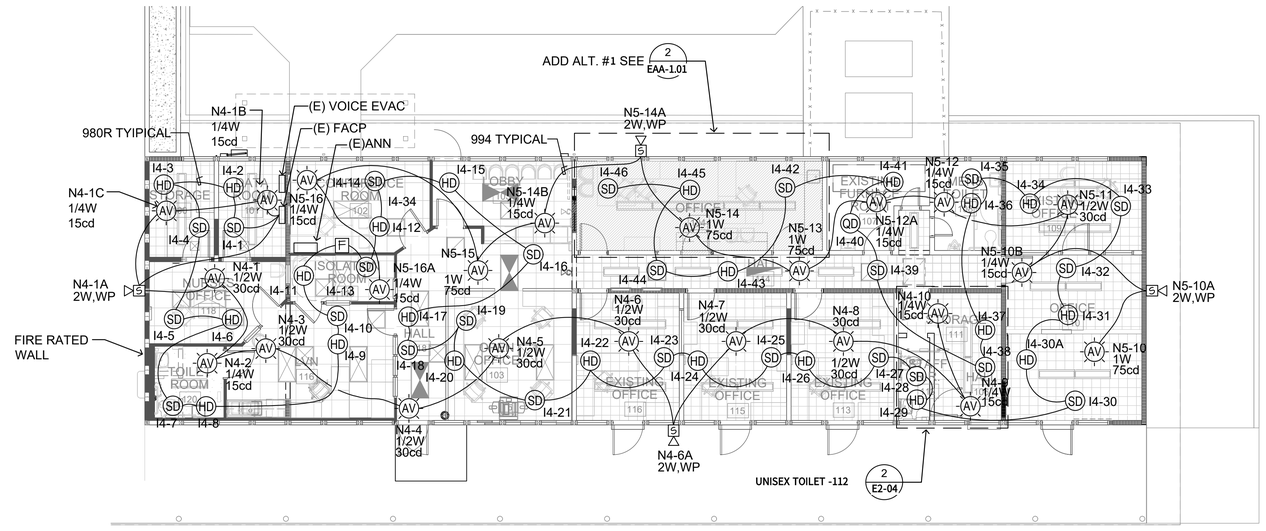
FIRE ALARM DEMOLITION PLAN

INCREMENT 1

SCALE: 1/8" = 1'

FIRE ALARM DEMO NOTES

1. REMOVE ALL EXISTING FIRE ALARM DEVICES COMPLETE.



FIRE ALARM PLAN

INCREMENT 1

SCALE: 1/8" = 1'

FIRE ALARM NOTES

1. CEILING HEIGHT IS 9'-6" UNLESS STATED OTHERWISE
2. STORAGE ROOM 100, DATA ROOM 101, EXISTING OFFICE 109 & 110 CEILING HEIGHT IS 12'-0"

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Sheet Title:
DEMO & FIRE ALARM PLANS

Job No.:
5599.2

Sheet No.:
E1.02

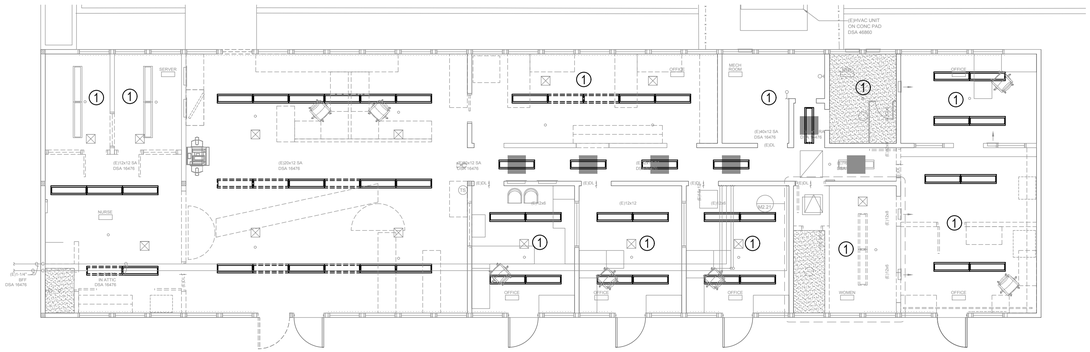
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DEMO LIGHTING NOTES

1. NO WORK IN THIS SPACE

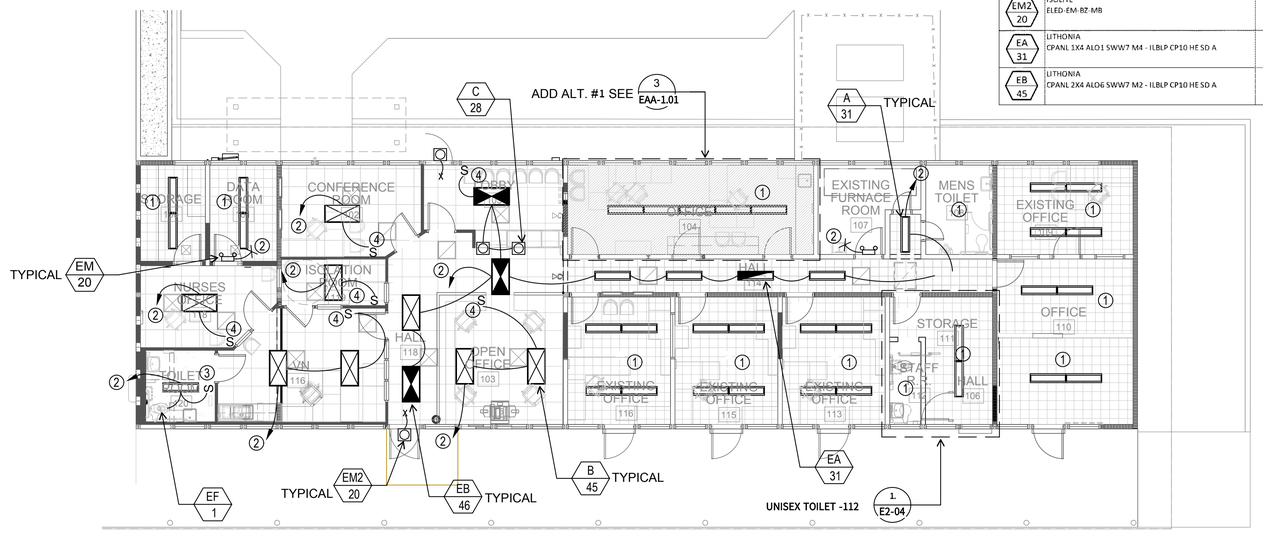
LIGHTING DEMOLITION PLAN

INCREMENT 1

SCALE: 1/8" = 1'

FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LAMP TYPE	LAMP COLOR	LAMP WATTS	DRIVER	OPTIC/LENS	REMARKS
A 31	LITHONIA CPANL 1X4 ALO1 SWW7 M4	LED	4000K	31	0-10V DIMMING	DIFFUSE	1X4 FLAT PANEL
B 45	LITHONIA CPANL 2X4 ALO6 SWW7 M2	LED	4000K	45	0-10V DIMMING	DIFFUSE	2X4 FLAT PANEL
C 28	LITHONIA LDN6 40/25 L06 ARLDMVOLTGZ10	LED	4000k	28	0-10V	DIFFUSE	6" DOWNLIGHT
EM 20	ISOLITE RL2LED-2-WH-MBC	LED	4000K	20	NICAD BATTERY	PRISMATIC	LED EMERGENCY LIGHT
EM2 20	ISOLITE ELED-EM-BZ-MB	LED	4000K	20	NICAD BATTERY	PRISMATIC	LED EXTERIOR EMERGENCY LIGHT
EA 31	LITHONIA CPANL 1X4 ALO1 SWW7 M4 - ILBLP CP10 HE SD A	LED	4000K	31	0-10V DIMMING	DIFFUSE	1X4 FLAT PANEL
EB 45	LITHONIA CPANL 2X4 ALO6 SWW7 M2 - ILBLP CP10 HE SD A	LED	4000K	45	0-10V DIMMING	DIFFUSE	2X4 FLAT PANEL



LIGHTING PLAN

INCREMENT 1

SCALE: 1/8" = 1'

LIGHTING NOTES

1. NO WORK IN THIS SPACE
2. CONNECT TO EXISTING CIRCUIT
3. SENSOR SWITCH #WSD-2P-FAN-PDT-WH
4. MOTION SWITCH LUTRON #MS-Z101-WH

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LIGHTING PLANS

Job No.:
5599.2

Sheet No.:
E1.03

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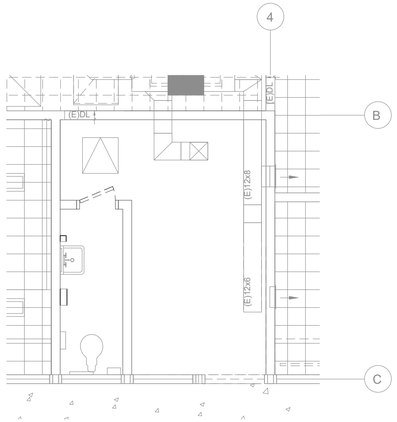
1" = 40'-0" 120 80 40 0

1" = 30'-0" 90 60 30 0

1" = 20'-0" 60 40 20 0

1/8" = 1'-0" 24 16 8 0

1/4" = 1'-0" 12 8 4 0



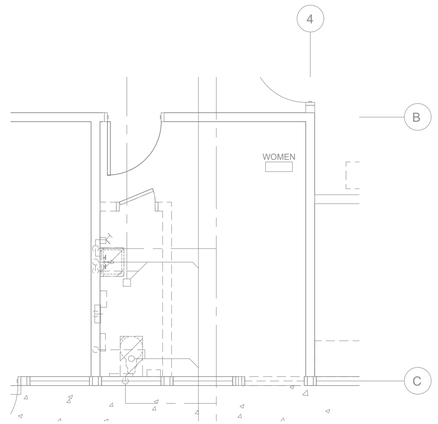
ELECTRICAL DEMO NOTES

1. ON WALLS TO BE REMOVED, REMOVE ALL ELECTRICAL EQUIPMENT, CONDUIT, CONDUCTORS, ETC. COMPLETE.

ELECTRICAL - DEMO
ADMIN ALTERATIONS

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

1D
E2-04



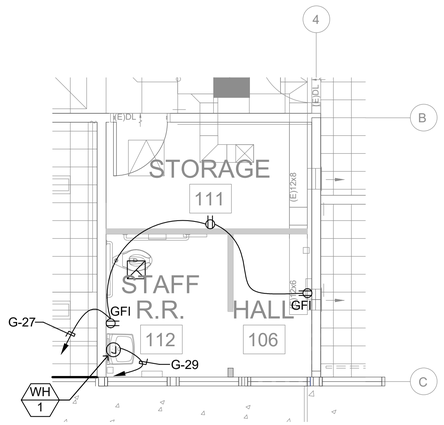
FIRE ALARM DEMO NOTES

1. REMOVE ALL EXISTING FIRE ALARM DEVICES COMPLETE.

FIRE ALARM - DEMO
ADMIN ALTERATIONS

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

2D
E2-04

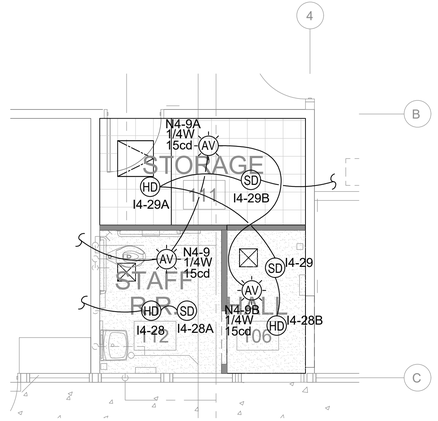


ELECTRICAL - IMPROVEMENTS

ADMIN ALTERATIONS

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

1
E2-04



FIRE ALARM - IMPROVEMENTS

ADMIN ALTERATIONS

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

2
E2-04

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KEVIN MALONEY
No. E013083
EXP. 06/30/2027
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STATE OF CALIFORNIA

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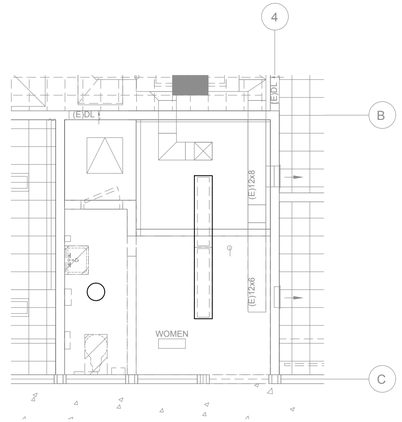
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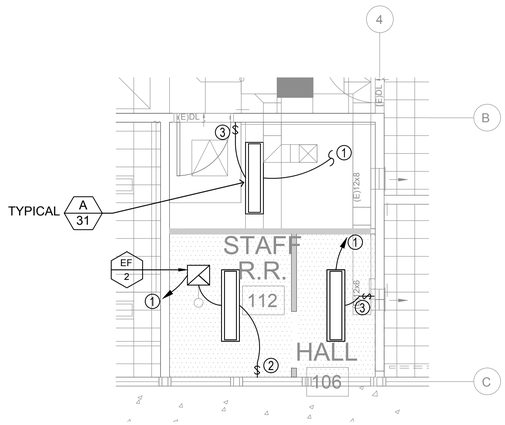
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LIGHTING - DEMO
ADMIN ALTERATIONS

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

3D
E2.05



LIGHTING NOTES

1. CONNECT TO EXISTING CIRCUIT
2. SENSOR SWITCH #WSD-2P-FAN-PDT-WH
3. 0-10V DIMMER LUTRON #DVSTV-WH

LIGHTING - IMPROVEMENTS
ADMIN ALTERATIONS

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

3
E2.05

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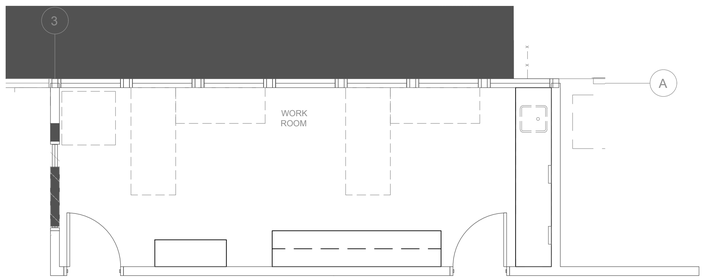
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ELECTRICAL DEMO NOTES

1. ON WALLS TO BE REMOVED, REMOVE ALL ELECTRICAL EQUIPMENT, CONDUIT, CONDUCTORS, ETC. COMPLETE.



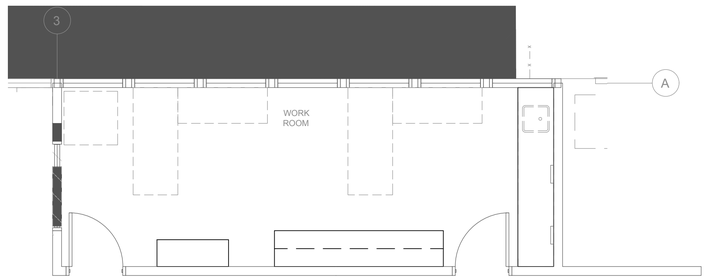
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ELECTRICAL - DEMO
ADMIN ALTERATIONS

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

1D
EAA1.01

FIRE ALARM DEMO NOTES

1. REMOVE ALL EXISTING FIRE ALARM DEVICES COMPLETE.



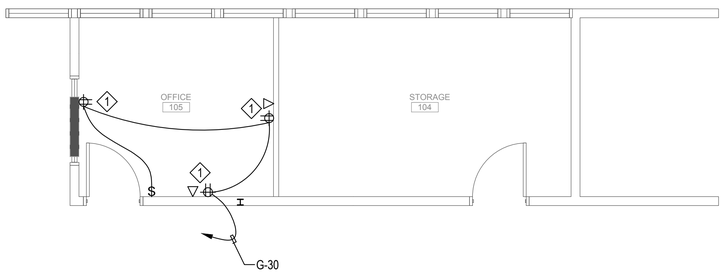
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FIRE ALARM - DEMO
ADMIN ALTERATIONS

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

2D
EAA1.01

ELECTRICAL NOTES

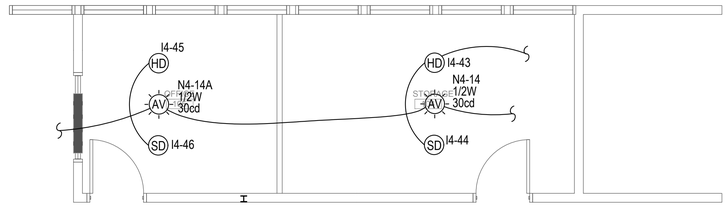
1. QUAD RECEPTACLES WITH ONE DUPLEX ON SWITCHED CIRCUIT.



ADD ALT #1
ELECTRICAL - IMPROVEMENTS
ADMIN ALTERATIONS

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

1
EAA1.01



ADD ALT #1
FIRE ALARM - IMPROVEMENT
ADMIN ALTERATIONS

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

2
EAA1.01

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JOSE A. MALONEY
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EXP. 06/30/2027
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STATE OF CALIFORNIA

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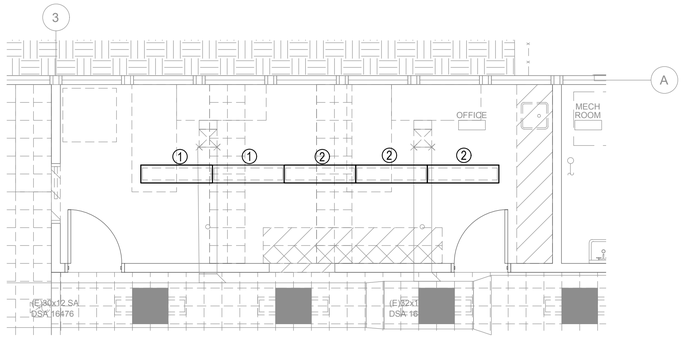
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Sheet No.:
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DEMO LIGHTING NOTES

1. REMOVE LIGHTING FIXTURES SHOWN
2. DO NOT REMOVE FIXTURES



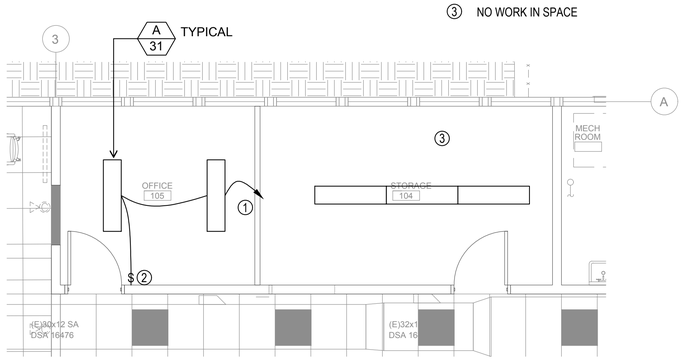
ADD ALT #1
LIGHTING - DEMO
ADMIN ALTERATIONS

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

3D
EAA1.02

LIGHTING NOTES

1. CONNECT TO EXISTING CIRCUIT
2. MOTION SWITCH LUTRON #MS-Z01-WH
3. NO WORK IN SPACE



ADD ALT #1
LIGHTING - IMPROVEMENTS
ADMIN ALTERATIONS

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

3
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