WOODLAND JOINT UNIFIED SCHOOL DISTRICT

WOODLAND ADULT EDUCATION CENTER MODERNIZATION

CLASSROOM CONVERSIONS

PROJECT TEAM

ARCHITECT
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CONTACT: David A. Weston, PE, LEED AP
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PHONE: (916) 923-4400
EMAIL: slindsay@mneilsengineering.com

SCOPE OF WORK

THE SCOPE OF THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

GENERAL
COORDINATION WITH OTHER CONTRACTORS IS REQUIRED ON THIS PROJECT, INCLUDING COORDINATION BETWEEN THE GENERAL CONTRACTOR AND THE DISTRICT'S VENDORS FOR LOW VOLTAGE SYSTEMS (PHONE, INTERNET, SECURITY, INTRUSION, ETC.), FURNISHINGS, EQUIPMENT, THE OWNER'S REPRESENTATIVES, AND DISTRICT PERSONNEL.

PROJECT CONSISTS OF REMODEL OF EXISTING CLASSROOMS INCLUDING PLUMBING & ELECTRICAL TO SUPPORT EQUIPMENT REQUIRED FOR MANUFACTURING, DENTAL AND CULINARY CLASSROOMS.

DEMOLITION
- REMOVAL OF EXISTING CABINETS, DOORS, DOOR FRAMES, DOOR HARDWARE, FINISHES & INTERIOR WALLS.

INTERIOR WORK
- REMODEL OF 4 CLASSROOMS.

THIS PROJECT REQUIRES A CLASS 3 PROJECT INSPECTOR.

APPLICABLE CODES

THE CONTRACTOR SHALL KEEP A COPY OF THE FOLLOWING REGULATIONS ON THE JOB SITE AT ALL TIMES:

1. CALIFORNIA CODE OF REGULATIONS, TITLE 24
   - PART 1 - 2022 CALIFORNIA ADMINISTRATIVE CODE
   - PART 2 - 2019 CALIFORNIA BUILDING CODE
   - PART 3 - 2019 CALIFORNIA ELECTRICAL CODE
   - PART 4 - 2019 CALIFORNIA MECHANICAL CODE
   - PART 5 - 2019 CALIFORNIA PLUMBING CODE
   - PART 6 - 2019 CALIFORNIA ENERGY CODE
   - PART 7 - 2019 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
   - PART 8 - 2019 CALIFORNIA HISTORICAL BUILDING CODE
   - PART 9 - 2019 CALIFORNIA FIRE CODE
   - PART 10 - 2019 CALIFORNIA EXISTING BUILDING CODE
   - PART 11 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
   - PART 12 - 2019 CALIFORNIA REFERENCED STANDARDS CODE
2. CALIFORNIA CODE OF REGULATIONS, TITLE 19, PUBLIC SAFETY
3. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
4. AISC STEEL CONSTRUCTION MANUAL, 15th EDITION
5. 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
6. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
7. 2018 NFPA 10, PORTABLE FIRE EXTINGUISHERS
8. 2016 NFPA 72 NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS

DEFERRED APPROVALS

NONE

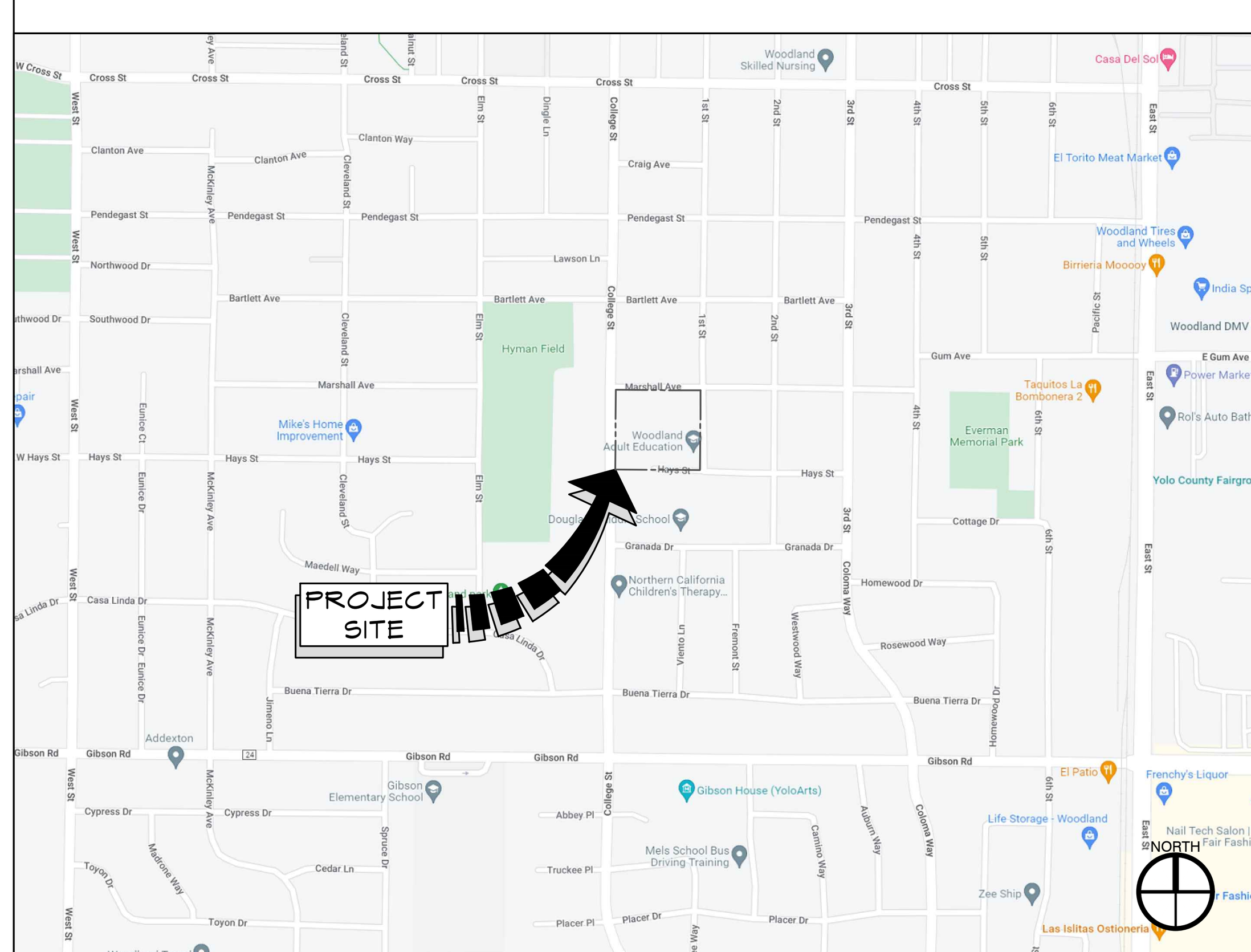
NOTES

1. 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.
2. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
3. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
4. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER' S AGENT.
5. 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.
6. 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.
7. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

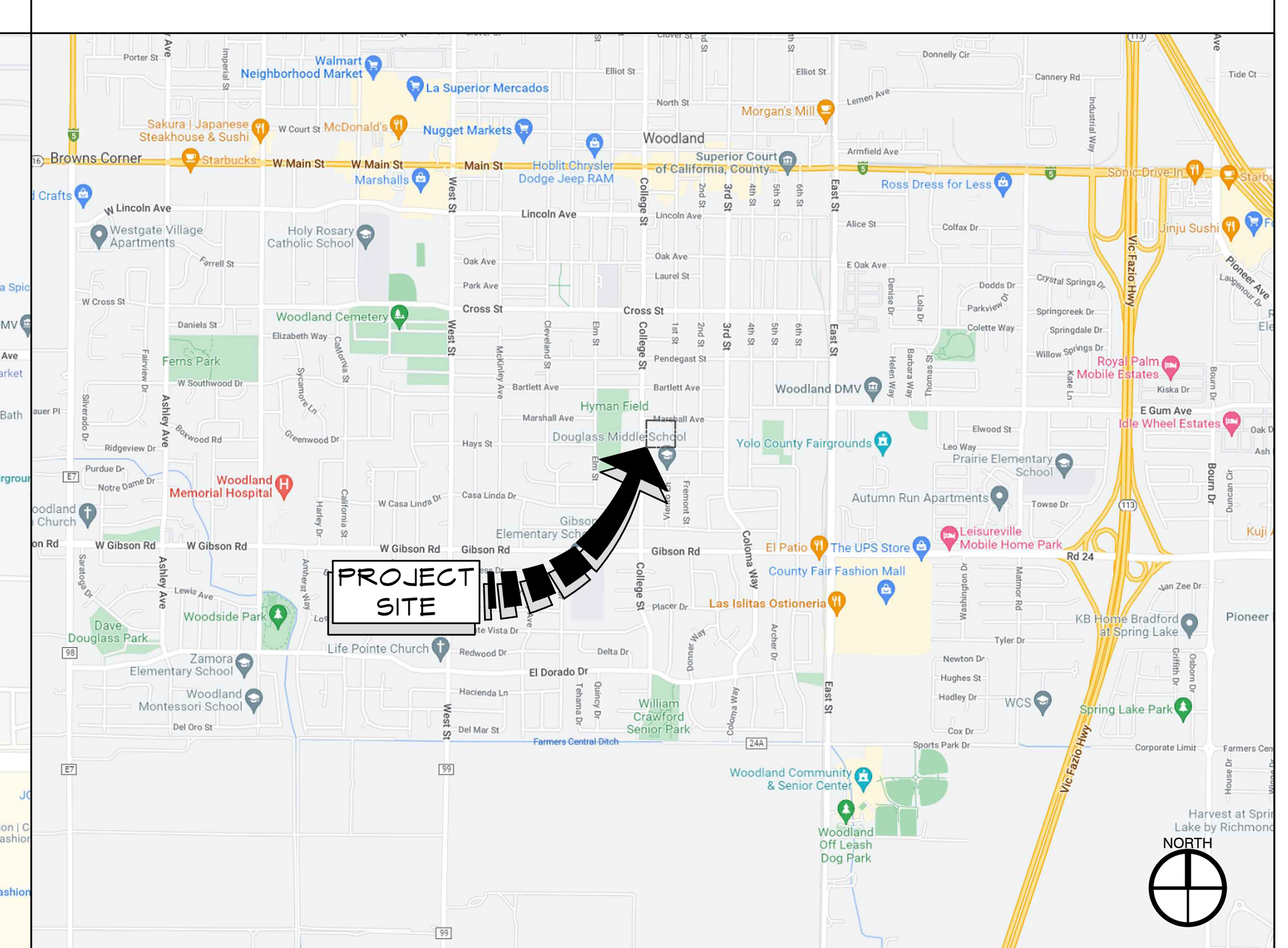
DESIGN CRITERIA

SEISMIC
RISK CATEGORY III
SITE CLASS D (DEFAULT)
Ss=1.011 SDS = 0.809

WIND
WIND SPEED 100 MPH RC III
EXPOSURE C



AREA MAP



VICINITY MAP

DRAWING INDEX

THIS SET OF DRAWINGS INCLUDES 42 SHEETS.

STATEMENT OF GENERAL CONFORMANCE

OTHER THAN THE "ARCHITECTURAL" DRAWINGS, THE DRAWINGS FOR THE ITEMS LISTED ABOVE HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY THE ARCHITECT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY THE ARCHITECT. THE DRAWINGS LISTED ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE " SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [B])

SIGNATURE [illegible] March 1, 2023
GARY M. UNDERHILL, C14,152

APPROVALS

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Yuba City, CA 95992-1900
530.298.7298
www.spinc-arch.com

▲INSTITUTIONAL ▲COMMERCIAL ▲RESIDENTIAL ▲INTERIORS ▲CONSTRUCTION MANAGEMENT

SYNTHESIS PARTNERS, LLC
Managers · Architects

OWNER
Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
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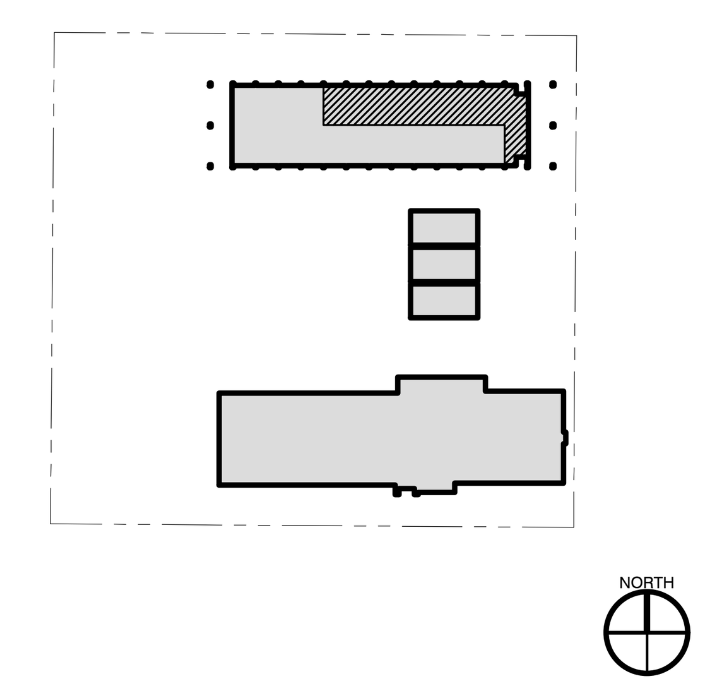
KEY PLAN



THIS IS A PRELIMINARY SET FOR REVIEW ONLY NOT FOR CONSTRUCTION

LICENSED ARCHITECT
MICHAEL UNDERHILL
EXPIRES 7-31-25
C-19752
STATE OF CALIFORNIA

NO.	REVISION DESCRIPTION	DATE

COVER SHEET

DATE	2023-03-01
PROJECT NO.	21-W04-01

CS

GENERAL NOTES

1. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE PROPERTY OF THE ARCHITECT AND OTHER INFORMATION ON THE DRAWINGS FOR USE ON THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESS WRITTEN PERMISSION.
2. THE WORK OF THIS CONTRACT SHALL INCLUDE WORK INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS WHICH FALL WITHIN THE GENERAL CONSTRUCTION LIMITS (AS DEFINED ON THE DRAWINGS) AND WORK OUTSIDE THE GENERAL CONSTRUCTION LIMITS NOTED OR OTHERWISE INDICATED AS PART OF THE CONTRACT.
3. THE CONTRACTOR SHALL FURNISH LABOR, MATERIALS, TOOLS, TRANSPORTATION, AND EQUIPMENT NECESSARY TO PERFORM WORK UNDER HIS TRADE IN FULL ACCORDANCE WITH THE WORKING DRAWINGS, SPECIFICATIONS AND CONTRACTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING INCIDENTAL WORK NECESSARY TO FACILITATE AND COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF EXISTING ITEMS OR PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.
5. SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND EQUIPMENT BEFORE PROCEEDING WITH THE WORK. LACK OF DOING SO WILL BE AT THE CONTRACTOR'S RISK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SITE VISITS TO CONFIRM FIELD CONDITIONS AND ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK PRIOR TO BIDDING.
7. DIMENSIONS:
   a. DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.
   b. DIMENSIONS ARE TO BE ROUGH UNLESS OTHERWISE NOTED.
   c. DIMENSIONS TO STUD PARTITIONS ARE TO F.O.S. UNLESS OTHERWISE NOTED.
   d. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO UNDERSIDE OF CEILING JOIST.
   e. DIMENSIONS SHALL BE VERIFIED IN FIELD BEFORE PROCEEDING WITH THE WORK.
   f. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT SHALL BE NOTIFIED OF ERRORS, OMISSIONS OR VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS. WHERE VARIATIONS EXIST THE ARCHITECT SHALL PROVIDE CORRECTION OR DIRECTION BEFORE THE CONTRACTOR SHALL PROCEED W/ THE WORK.
8. ITEMS MARKED " TYP." OR "TYPICAL" SHALL APPLY UNLESS SPECIFICALLY INDICATED OTHERWISE.
9. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
10. ALL WORK & MATERIALS ARE NEW UNLESS INDICATED AS EXISTING.
11. IF A CONTRACTOR DISCOVERS UNDOCUMENTED MATERIALS WHICH HE SUSPECTS MAY CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, THE CONTRACTOR SHOULD STOP WORK IMMEDIATELY AND CONTACT THE PROJECT MANAGER. THE MATERIALS SHALL BE TESTED AND APPROPRIATE ACTION TAKEN BY THE OWNER.
12. CONSTRUCTION IS TO COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

13. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFRONIA CODE OF REGULATIONS (CCR).
14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
15. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

DIVISION OF THE STATE ARCHITECT

1. A COPY OF PARTS 1 TO 5 & 9, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL ADDENDA ARE TO BE SIGNED BY THE ARCHITECT AND APPROVED BY DSA. ADDENDA ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
3. ALL CHANGES, INCLUDING SUBSTITUTIONS, TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE SUBMITTED AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION (IR) A-6.
4. ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24 AND THE APPROVED LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS, FORM DSA-103.
5. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1 OF TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY A DSA ACCEPTED LABORATORY. COSTS OF RE-TEST SHALL BE PER THE GENERAL CONDITIONS.
6. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
7. A DSA CERTIFIED PROJECT INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-324, PART 1, TITLE 24.
8. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
9. THE CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
10. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341, PART 1, TITLE 24.
11. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
12. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION 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, C.C.R., A CONSTRUCTION CHANGE DOCUMENT (CCD) OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
Ø	DIAMETER OF ROUND
⊥	PERPENDICULAR
℄	PLATE/PROPERTY LINE
±	PLUS OR MINUS
#	POUND/NUMBER
ABBREV.	ABBREVIATIONS
AC	ASPHALTIC CONCRETE
ACC.	ACCESSIBLE
ACOUS.	ACOUSTICAL
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE/ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
ALT.	ALTERNATE
AL.	ALUMINUM
AN.	ANODIZED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
ASST.	ASSISTANT
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BTW	BETWEEN
CAB.	CABINET
C.B.	CATCH BASIN
C.B.C.	CALIFORNIA BUILDING CODE
CEM.	CEMENT
CER.	CERAMIC
CFM.	CUBIC FEET PER MINUTE
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CHAIN LINK
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR/CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CONF.	CONFERENCE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
C.T.	CERAMIC TILE
CTSK.	COUNTERSUNK
CTR.	CENTER
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DRINKING FOUNTAIN
DF	DOUGLAS FIR
D.G.	DECOMPOSED GRANITE
D.I.	DROP INLET
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
DS	DOWN SPOUT
D.S.P.	DRY STANDPIPE
DTL.	DETAIL
DWG	DRAWING
(E)	EXISTING
E	EAST
EA.	EACH
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
E.N.	EDGE NAIL/END NAIL
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL BOARD
EQ.	EQUAL
EQPT.	EQUIPMENT
EXP.	EXPANSION
EXT.	EXTERIOR
(F)	FUTURE
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FLR.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.N.	FIELD NAIL
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD(S)
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GND.	GROUND
GYP. BD.	GYPSUM BOARD
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HVAC	HEATING-VENTING & AIR CONDITIONING
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
J.H.	JOIST HANGER
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAU.	LAUNDRY
LAV.	LAVATORY
LBS.	POUND(S)
L.F.	LINEAR FEET
LT.	LIGHT
MATL.	MATERIAL
MAX.	MAXIMUM
MCT	MARMOLEUM COMPOSITE TILE
MDF	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
MFRD.	MANUFACTURED
MFRG.	MANUFACTURING
MH.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTL.	METAL
MUL.	MULLION
(N)	NEW
N	NORTH
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF.	OFFICE
O.H.	OPPOSITE HAND
O.I.	ORNAMENTAL IRON
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPNG.	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
OZ.	OUNCE(S)
P.D.F.	POWER DRIVEN FASTENER
PL.	PLATE
P. LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.M.F.	PRESSED METAL FRAME
P.O.T.	PATH OF TRAVEL
PR.	PAIR
PREP.	PREPARE/PREPARATION
PT.	PAINT
PTD	PAINTED
P.T.D.	PAPER TOWEL DISPENSER
P.T.D./R	COMBINATION PAPER TOWEL DISPENSER/RECEPTACLE
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN.	PARTITION
Q.T.	QUARRY TILE
(R)	REMOVE/DEMOLISH
RAD.	RADIUS
R.D.	ROOF DRAIN
RDWD.	REDWOOD
REF.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
R/W.L.	RAIN WATER LEADER
S	SOUTH
S&P	SHELF & POLE
S.B.	SPLASH BLOCK
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	SOAP DISPENSER
SECT.	SECTION
SF	SQUARE FOOT/FEET
SH.	SHELF
SHT.	SHEET
SIM.	SIMILAR
S.M.S.	SHEET METAL SCREW
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SPEC.	SPECIFICATION
SQ.	SQUARE
SS	SANITARY SEWER
S.S.K.	SERVICE SINK
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
S.T.S.	SELF -DRILLING/SELF-TAPPING SCREW
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.Y.	SQUARE YARD
SYM.	SYMMETRICAL
T&G	TONGUE & GROOVE
TC	TOP OF CURB
TEMP.	TEMPORARY
THK.	THICK
TMP	TEMPERED
T.O.	TOP OF
TP	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
TRD.	TREAD
TV	TELEVISION
TYP.	TYPICAL
UNFIN.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UTIL.	UTILITY/UTILITIES
U/S	UNDER SIDE
VCT	VINYL COMPOSITION TILE
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
W.C.	WATER CLOSET
WD.	WOOD
WDO.	WINDOW
W.H.	WATER HEATER
W.I.	WROUGHT IRON
WP.	WATER PROOF
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
YD.	YARD

SYMBOL LEGEND

COLUMN GRID SYMBOL
Letters: Left to Right
Numbers: Top to Bottom

KEYNOTE SYMBOL

DOOR SYMBOL

WINDOW SYMBOL

CASEWORK SYMBOL

EQUIPMENT SYMBOL
Type of equipment
F=Food Service, X=Xray
Equipment Group

ROOM IDENTIFICATION
Room name
Room Number

WALL TYPE SYMBOL

INTERIOR ELEVATION
Elevation Identification (optional)
Elevation Number
Sheet where elevation is shown
No identification means no elevation is given

EXTERIOR ELEVATION
Indicates Ext. Elev. No.
Sheet where section is shown

DETAIL REFERENCE
Indicates detail number
Sheet where detail is shown

ALIGNMENT SYMBOLS
Indicates stepped transition (number indicates distance)
Indicates flush transition
Align faces

MATCH LINE
(Shaded portion is the side considered)

BUILDING SECTION
Indicates section number
Sheet where section is shown

REVISION CLOUD & DELTA
Cloud around revision

MISCELLANEOUS SYMBOLS
Property Line
Work Point, Control Point, or Datum Point
Spot Elevation

APPROVALS

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▲INSTITUTIONAL ▲COMMERCIAL ▲RESIDENTIAL ▲INTERIORS ▲CONSTRUCTION MANAGEMENT

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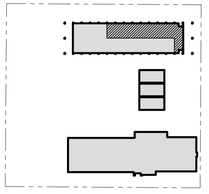
KEY PLAN



NORTH

LICENSED ARCHITECT MICHAEL UNDERWOOD 7-31-23 C-19752 STATE OF CALIFORNIA

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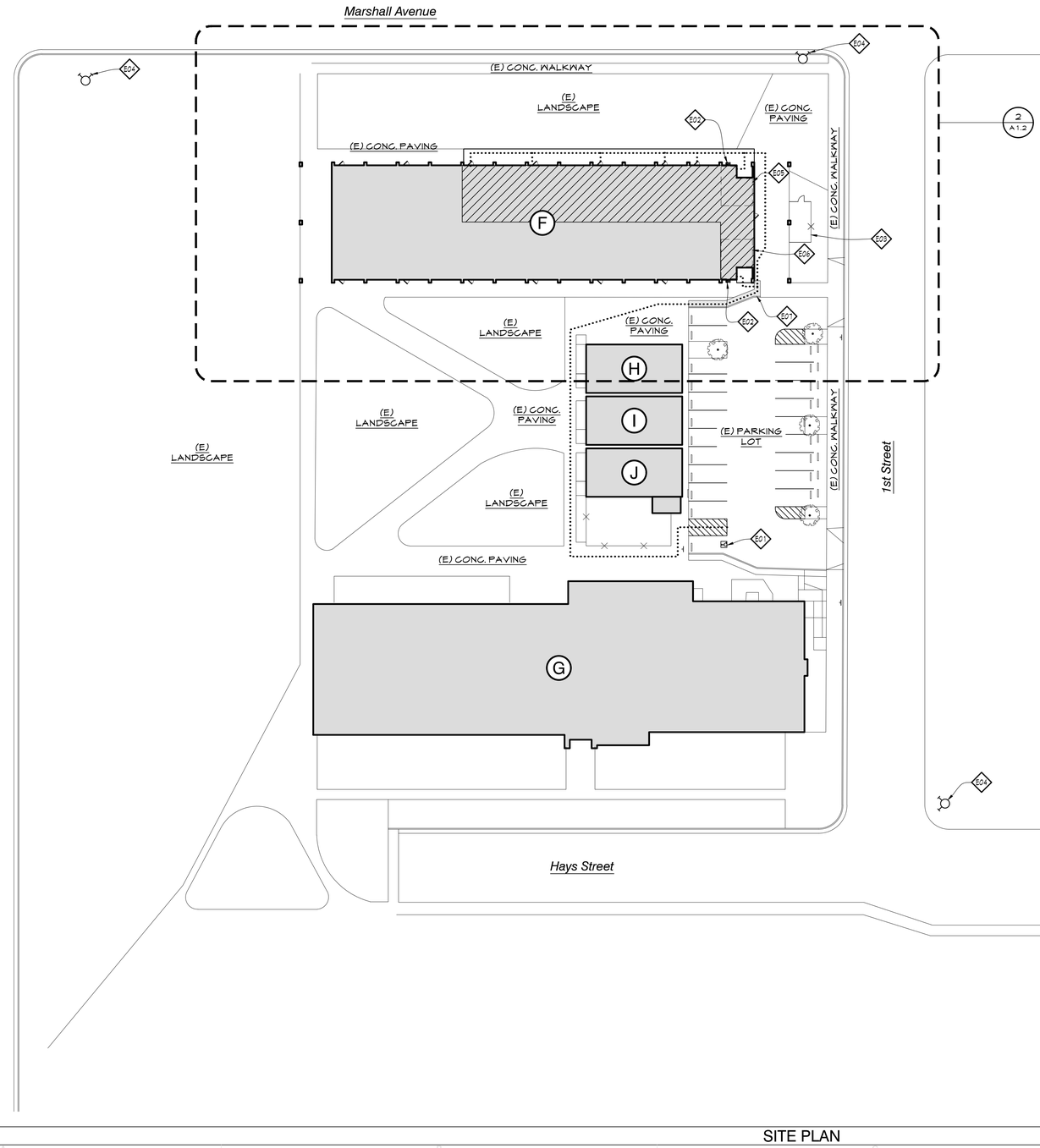
NO.	REVISION DESCRIPTION	DATE

GENERAL NOTES, ABBREVIATIONS & SYMBOLS

DATE	2023-03-01
PROJECT NO.	21-W04-01

A0.1



NORTH

SITE PLAN SCALE: 1" = 30'-0" 1

BUILDING LEGEND

BLDG	DSA APPL. #	YEAR	CONST.	OCC.	AREA
F	(E) CLASSROOMS BUILDING				
	02-26093	1965	VB	E	11,895 SF
	02-113054	2013	VB	E	11,895 SF
G	(E) CLASSROOMS & CAFETERIA BUILDING				
	02-26093	1965	VB	E	16,658 SF
H	(E) RELOCATABLE CLASSROOM				
	02-26093	1965	V-N	E	1,442 SF
I	(E) RELOCATABLE CLASSROOM				
	02-26093	1965	V-N	E	1,442 SF
J	(E) RELOCATABLE CLASSROOM				
	02-26093	1965	V-N	E	1,442 SF

KEYNOTES

E EXISTING

E01 VAN ACC. PARKING STALL & TOW-AWAY SIGN - DSA # 02-115590

E02 D.F. - DSA # 02-26093 TO BE REMODELED IN THIS APPL.

E03 CHAIN LINK FENCE

E04 FIRE HYDRANT

E05 BOYS RESTROOM - DSA # 02-26093 TO BE REMODELED IN THIS APPL.

E06 GIRLS RESTROOM - DSA # 02-26093 TO BE REMODELED IN THIS APPL.

E07 TRUNCATED DOMES - DSA# 02-115590

ACCESSIBLE PATH OF TRAVEL

PATH OF TRAVEL (P.O.T.)

- AS INDICATED IS A BARRIER-FREE ACCESS w/o ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL.
- SURFACES SHALL BE MIN. 4'-0" WIDE (OR AS OTHERWISE APPROVED BY CODE) AND SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND NOT EXCEED 1:20 (5%) RUNNING SLOPE U.O.N. AND 1:50 (2%) CROSS SLOPE.
- HAS A 4" MAX. DROP AT EDGE OF P.O.T. EXCEPT ADJACENT TO PARKING AREAS WHERE EDGE MAY BE UP TO 6" MAX.
- SHALL BE FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALLS BETWEEN 27" AND 80" ABOVE THE P.O.T. SURFACE.
- PASSING SPACES OF AT LEAST 60"X60" SHALL BE LOCATED NOT MORE THAN 200'-0" APART.
- WALKS WITH CONTINUOUS GRADIENTS HAVE 60" IN LENGTH OF LEVEL AREAS (11B-403.7) NOT MORE THAN 400'-0" APART.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBILE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CBC 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 CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT (DSA FORM 140, CCD).

LEGEND

AREA OF WORK

(E) BUILDING

(E) FIRE HYDRANT

APPROVALS

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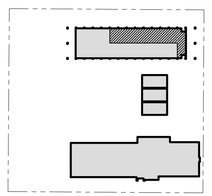
KEY PLAN



NORTH

LICENSED ARCHITECT MICHAEL UNGER SITE C-19752 STATE OF CALIFORNIA

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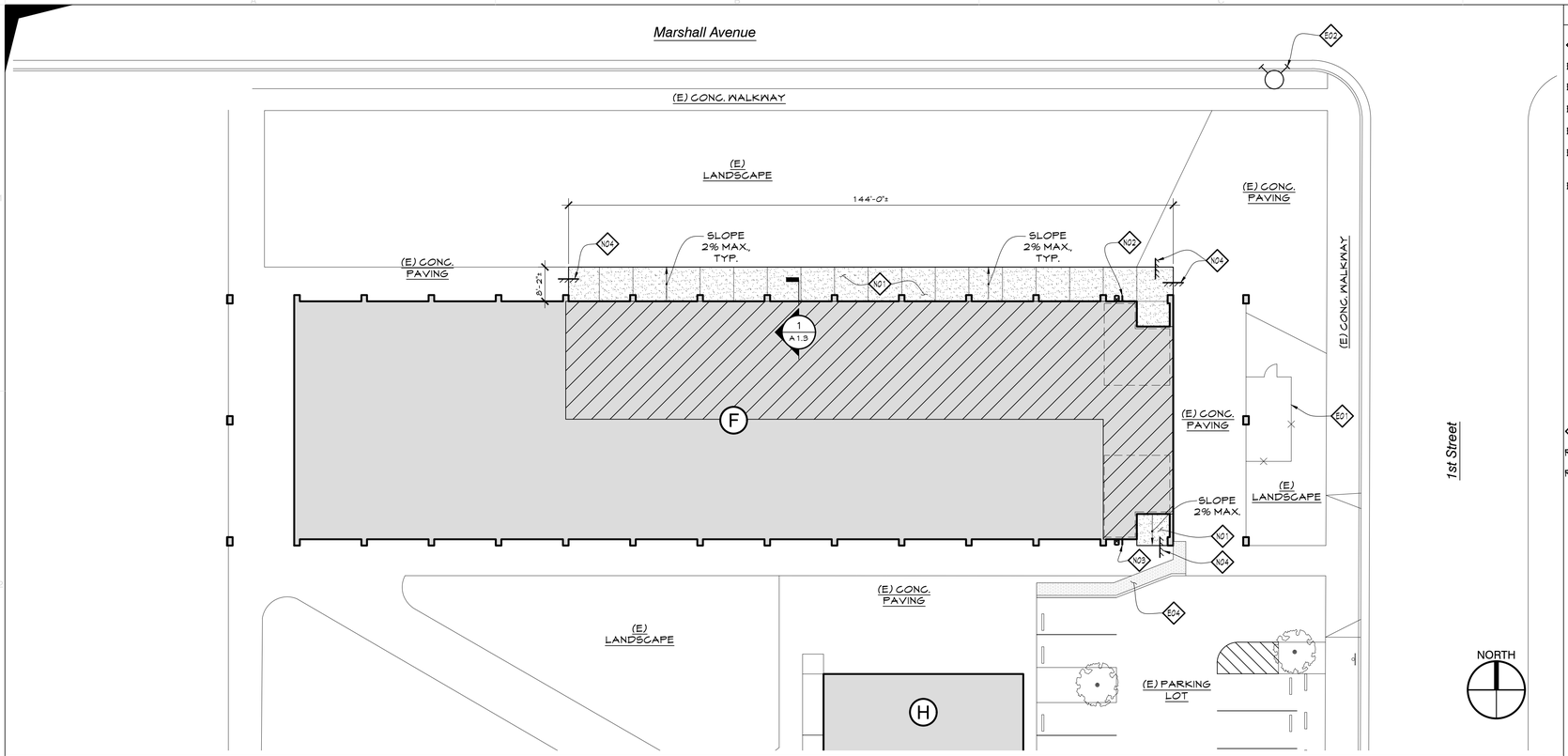
NO.	REVISION DESCRIPTION	DATE

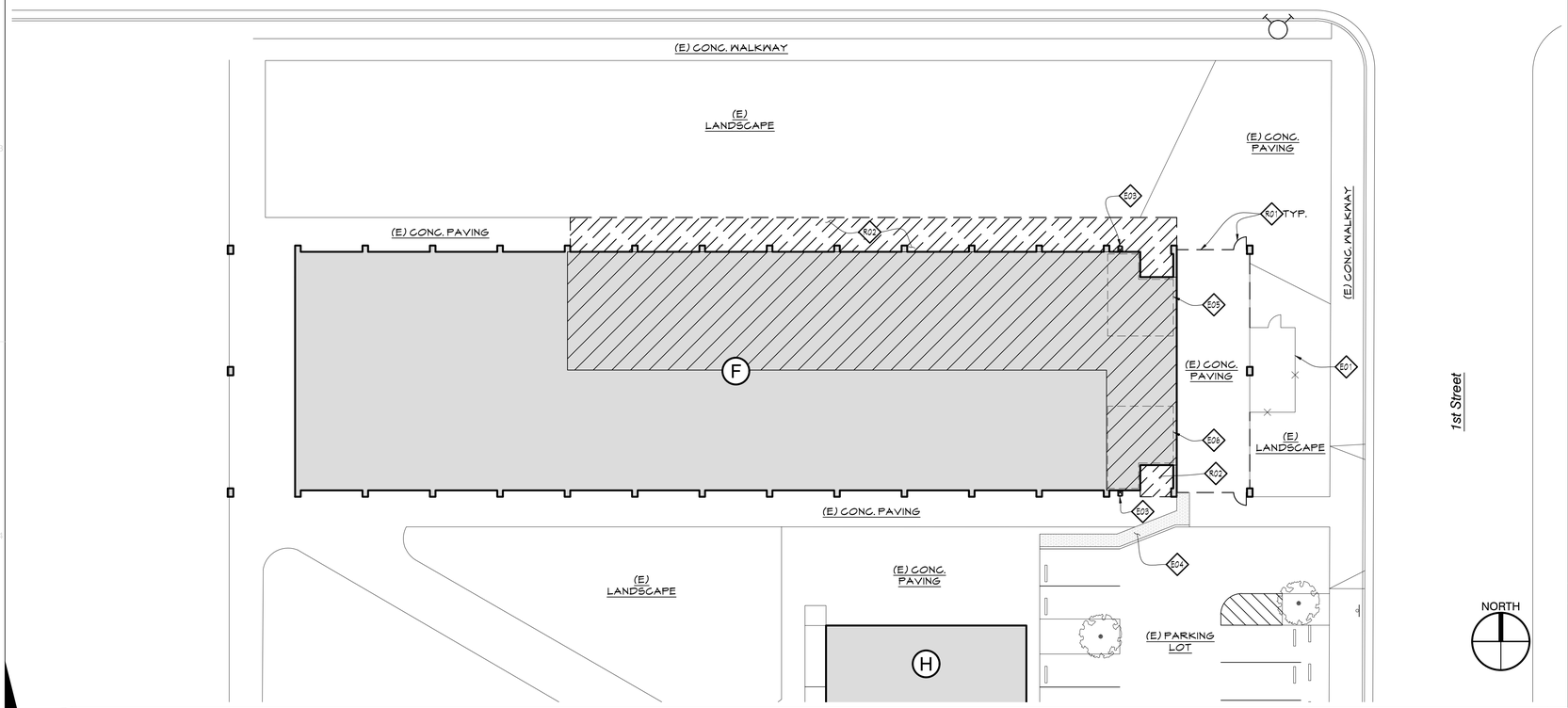
SITE PLAN

DATE 2023-03-01
PROJECT NO. 21-W04-01

A1.1



ENLARGED SITE PLAN - ALTERATION SCALE: 1/16" = 1'-0" 2



ENLARGED SITE PLAN - DEMOLITION SCALE: 1/16" = 1'-0" 1

KEYNOTES

E EXISTING

- E01 CHAIN LINK FENCE
- E02 FIRE HYDRANT
- E03 D.F. - DSA # 02-26093 TO BE REMODELED IN THIS APPL
- E04 TRUNCATED DOMES - DSA# 02-115590
- E05 BOYS RESTROOM - DSA # 02-26093 TO BE REMODELED IN THIS APPL.
- E06 GIRLS RESTROOM - DSA # 02-26093 TO BE REMODELED IN THIS APPL.

R REMOVAL / DEMOLITION

- R01 CHAIN LINK FENCE & GATE
- R02 CONC. PAVING

N NEW / ALTERATION

- N01 CONC. PAVING - SEE DTL. 5&6/A1.3
- N02 ACC. BARRIER AT HIGH D.F. - SEE DTL. 4/A1.3, SIM.
- N03 ACC. BARRIER AT LOW D.F. - SEE DTL. 4/A1.3, SIM.
- N04 PROVIDE FLUSH TRANSITION - SEE DTL. 2/A1.3

LEGEND

- AREA OF WORK
- (E) BUILDING
- (E) FIRE HYDRANT

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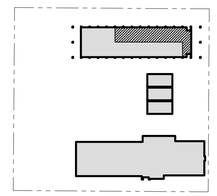

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ENLARGED SITE PLANS

DATE	2023-03-01
PROJECT NO.	21-W04-01

A1.2

NOT USED SCALE: NONE 16

NOT USED SCALE: NONE 15

NOT USED SCALE: NONE 14

NOT USED SCALE: NONE 13

NOT USED SCALE: NONE 12

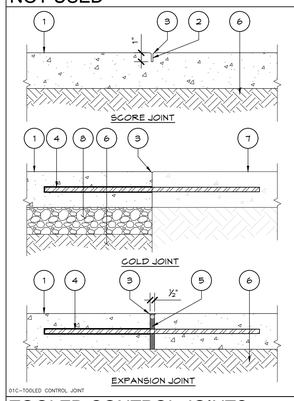
NOT USED SCALE: NONE 11

NOT USED SCALE: NONE 10

NOT USED SCALE: NONE 9

NOT USED SCALE: NONE 8

NOT USED SCALE: NONE 7

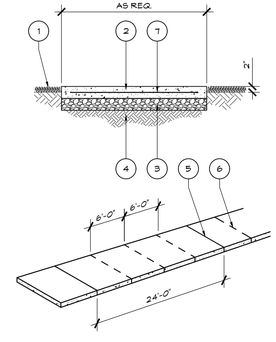


01C–TOOLED CONTROL JOINT

1 CAST IN PLACE CONC.
2 ¼" WIDE TOOLED JOINT
3 ⅛" RADIUS TOOLED EDGE, TYP.
4 ½" Ø SMOOTH STEEL DOWEL - SEE DTL. 2/A1.3
5 ½" EXPANSION MATERIAL w/ BACKER ROD & SEALANT TO MATCH CONC. - SEED SEALANT w/ SILICA SAND
6 COMPACT SUBGRADE - SEE DTL. 2/A1.3
7 (E) CONC. WALKWAY
8 AGGREGATE BASE - SEE DTL. 2/A1.3

NOTE:
BREAK STEEL @ COLD JOINT & EXPANSION JOINT

TOOLED CONTROL JOINTS SCALE: 1-1/2" = 1'-0" 6

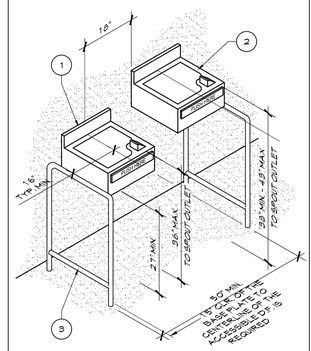


01C–SIDEWALK

1 REPAIR (E) TURF OR PAVING AS REQ. - WHERE OCCURS
2 4" CONC. WALK
3 4" AGGREGATE BASE COMPACTED 95%
4 SUB-GRADE - 95% COMPACTION
5 ½" EXP. JOINTS, PER DTL. 6/ A1.3
6 ¼" SCORE LINE, PER DTL. 6/ A1.3
7 6x6/W1.4xW1.4 WELDED WIRE FABRIC

NOTES:
1. DISTANCE BTW. SCORE LINES NOT TO EXCEED 6'-0" IN LONGITUDINAL & TRANSVERSE DIRECTION IN SIDEWALK
2. ½" TRANSVERSE E.J. @ 24'-0" INTERVAL FOR SIDEWALK

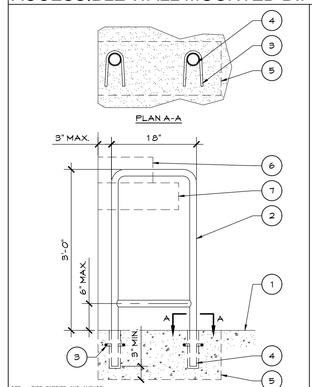
CONCRETE SIDEWALK SCALE: 1/2" = 1'-0" 5



014–Drinking Fountain, ISO

1 LOW DRINKING FOUNTAIN
2 HIGH DRINKING FOUNTAIN
3 PIPE BARRIER EA. SIDE - SEE DTL. 3/A1.3

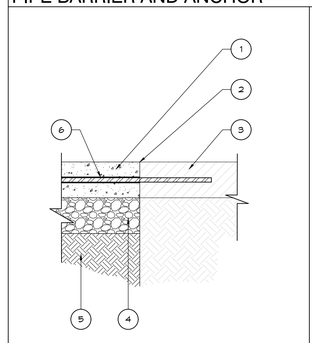
ACCESSIBLE WALL MOUNTED D.F. SCALE: 1/2" = 1'-0" 4



03E – PIPE BARRIER AND ANCHOR

1 CONC. WALKWAY
2 1½"Ø G.I. SCHED. 40 PIPE BARRIER
3 #4 HAIR PIN w/ 6" MIN. LEGS AT EA. POST, TYP.
4 POST SET IN WET CONC. OR CORE AND SET IN NON-SHRINK GROUT w/ 8" MIN. EMBEDMENT, TYP. w/ ½" MIN. GROUT ALL AROUND
5 THICKEN SLAB AS REQ.
6 HIGH D.F.
7 LOW D.F.

PIPE BARRIER AND ANCHOR SCALE: 3/4" = 1'-0" 3

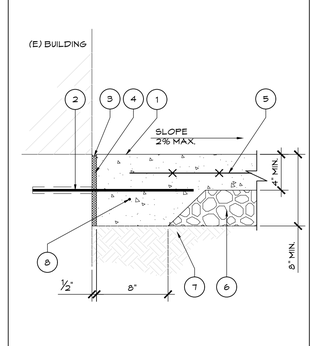


01G–PED. CONC. PATCH

1 4" CONC. WALK w/ 6x6/ W1.4 x W1.4 WELDED WIRE FABRIC
2 "SAW CUT" AND MATCH (E) CONC. WALK - PROVIDE FLUSH TRANSITION
3 (E) CONC. WALK
4 4" AGGREGATE BASE COMPACTED 95%
5 COMPACT SUBGRADE TO 95% RELATIVE COMPACTION
6 ½" Ø SMOOTH STEEL DOWEL x 24" LONG @ 18" O.C. FOR PEDESTRIAN WALK - EPOXY w/ SIMPSON SET-XP EPOXY ANCHOR w/ 4" MIN. EMBEDMENT

NOTE:
ANCHOR TESTING NOT REQUIRED

PEDESTRIAN WALK CONCRETE PATCH SCALE: 1 1/2" = 1'-0" 2



1 TOP OF (N) CONC. TO BE FLUSHED WITH TOP OF (E) FINISH SLAB TOOL EDGE OF (N) CONC.
2 #4 DOWEL x 18" LONG, AT 24" O.C. MAX. WITH 6½" MIN. EMBEDMENT INTO (E) CONC. FOOTING w/ HILTI HY 150 EPOXY
3 SEALANT (DEPRESS TOP OF FILLER MIN. ½" AND FILL JOINTS WITH SEALANT)
4 FIBER EXPANSION JOINT FILLER
5 4" CONCRETE WALK WITH 6x6xW1.4xW1.4 WOVEN WIRE FABRIC
6 AGGREGATE BASE
7 SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION
8 #4 REBAR CONT.

CONCRETE AT BUILDING SCALE: 1 1/2" = 1'-0" 1

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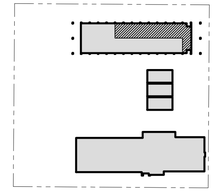

NORTH

LICENSED ARCHITECT MICHAEL UNGER C-31-23 C-19752 STATE OF CALIFORNIA

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NO.	REVISION DESCRIPTION	DATE

SITE DETAILS

DATE	2023-03-01
PROJECT NO.	21-W04-01

A1.3

ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR		BASE		WALLS								CEILING		NOMINAL CEILING HEIGHT	COUNTERTOPS	CASEWORK
						NORTH		EAST		SOUTH		WEST						
		MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.		MAT'L	MAT'L
F06	CULINARY CLASSROOM	F3	A4	B1	A4	*	A1	*	A1	*	A1	*	A1	*	A1	±9'-4"	P1	D1
F07	CULINARY CLASSROOM	F3	A4	B2	A4	*	A1	W2	A2	W2	A2	W2	A2	*	A1	±9'-4"	-	-
F08	DENTAL CLASSROOM	F2	A2	B1	A2	*	A1	*	A1	*	A1	*	A1	*	A1	±9'-4"	P1	D1
F09	MANUFACTURING LAB	F1	A3	B1	A2	*	A1	*	A1	*	A1	*	A1	*	A1	±9'-4"	-	-
F10	MANUFACTURING CLASSROOM	F2	A2	B1	A2	*	A1	*	A1	*	A1	*	A1	*	A1	±9'-4"	P1	D1
F18	DRY STORAGE	F3	A4	B1	A2	*	A1	*	A1	*	A1	*	A1	*	A1	±9'-4"	-	-

* INDICATES (E) TO REMAIN

DOOR AND FRAME SCHEDULE

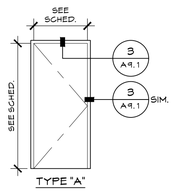
MARK	LOCATION	DOOR								(E) FRAME				FIRE RATING LABEL	NOTES
		SIZE			TYPE	MAT'L	GLAZING	LOUVER		TYPE	MAT'L	DETAIL			
		WD	HGT	THK				WD	HT.			HEAD	SILL		
F18A	DRY STORAGE	3'-0"	7'-0"	1 3/4"	A	HM	-	--	--	A	PM	3/A9.1	-	--	--
F18B	DRY STORAGE	3'-0"	7'-0"	1 3/4"	A	HM	-	--	--	A	PM	3/A9.1	-	--	--

DOOR HARDWARE SCHEDULE

TAG	HINGE	LOCKSET	PANIC	CLOSER	STOP	WEATHERSTRIP	DOOR BOTTOM	THRESHOLD	FINISH	KICKPLATE	NOTES	LOCATION
F18A	1	2	-	-	2	-	-	-	1	1	-	DRY STORAGE
F18B	1	2	-	-	2	-	-	-	1	1	-	DRY STORAGE

HINGE	1	HAGER AB850
LOCKSET	1	SCHLAGE ND75PD
	2	SCHLAGE ND10S
KICK PLATE	1	ROCKWOOD K1050
CLOSER	1	LCN 4040XP w/ MTL. COVER
STOP	1	TRIMCO 7281 FLOOR STOP
WEATHERSTRIP	1	PEMKO 305SSR
DOOR BOTTOM	1	PEMKO 217PK
THRESHOLD	1	PEMKO 2005T
FINISH	1	626/US26/MILL/AL

DOOR HARDWARE SCHEDULE NOTES:
1. DOOR PAIRS SHALL HAVE ONE INOPERABLE LEAF w/ ROCKWOOD 2845 FLUSH BOLT AND ONE OPERABLE LEAF w/ SCHEDULED LEVER LATCH HARDWARE. PROVIDE ROCKWOOD 2612 BAR COORDINATOR w/ 2601C MOUNTING BRACKETS.



TYPE "A"

DOOR AND FRAME TYPE

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

ROOM FINISH CODES

FLOOR	FINISHES
F1 (E) CONC.	A1 PRIME & PAINT
F2 MCT O/ (E) CONC.	A2 FACTORY FINISH
F3 EPOXY O/ (E) CONC.	A3 CLEAN & SEAL
	A4 NON-SLIP FINISH

WALLS	CEILING
W1 CLEAN EXISTING	C1 GYP. BD.
W2 FRP WAINSCOT	

COUNTERTOPS	BASE
P1 PLASTIC LAMINATE	B1 4" TOP SET RUBBER BASE
P2 STAINLESS STEEL	B2 6" EPOXY w/ MTL. COVE STRIP

CASEWORK
D1 PLASTIC LAMINATE

DOOR SCHEDULE CODES

GLASS	MATERIAL	FINISH
GL CLEAR PLATE	HM HOLLOW METAL	PT PAINT, FACTORY PRIMED
GT CLEAR TEMPERED	PM PRESSED METAL	PF PREFINISHED
OS OBSCURED	PM PRESSED METAL	PT PAINT
	SF STORE FRONT	

NOTE:
TEMPERED GLAZING TO MEET THE TESTING ANS LABELING REQUIREMENTS OF 2019 CBC, 2406

FINISH NOTES

1. ANY FINISHES OR COLORS NOT INDICATED IN THE BID DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO BIDDING.
2. INSTALL ALL FINISHES PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. RESILIENT FLOORING SHALL HAVE A MIN COEFFICIENT OF FRICTION OF 0.5 PER ASTM D2047.
4. CARPETING SHALL BE DIRECT GLUE-DOWN LEVEL OR TEXTURED LOOP w/ PILE HEIGHT LESS THAN ½".
5. ALL TRANSITIONS BETWEEN FLOORING SHALL BE FLUSH OR LESS THAN ¼" VERTICAL TRANSITION OR ½" MAXIMUM TRANSITION w/ 1:2 BEVEL.
6. CASEWORK PULL HARDWARE SHALL BE 4" "U-SHAPED" PULLS.
7. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS "A" MATERIALS PER ASTM E84 OR UL 723.
8. ALL CARPET SHALL BE DIRECT-GLUED AND BE CLASS I OR II PER NFPA 253 AND SHALL COMPLY WITH ASTM STANDARD E648 AND HAVE A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.

DOOR HARDWARE NOTES

1. HARDWARE SHALL BE CENTERED BETWEEN 36" AND 44" A.F.F.
2. PRESSURE TO OPERATE DOORS SHALL NOT EXCEED 5.0 LBS.
3. IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12" FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR.
4. FLOORS OR LANDINGS SHALL NOT BE MORE THAN ½" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN ¼" & ½" SHALL BE BEVELED w/ A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL. CHANGES IN LEVEL GREATER THAN ½" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
5. ALL FLOOR STOPS SHALL NOT BE LOCATED IN THE P.O.T. & SHALL BE 4" MAX. FROM WALLS
6. KEY ALL LOCKS IN SCOPE TO OWNER'S REQUIREMENTS. CONTRACTOR TO COORDINATE w/ OWNER FOR KEYING REQUIREMENTS.
7. ALL EXTERIOR DOOR LANDINGS AT GRADE SHALL HAVE A SMOOTH TRANSITION TO ADJACENT PAVED SURFACE.
8. NO THUMB LATCHES OR KEYED CYLINDER DEAD BOLTS ALLOWED ON ANY DOORS UNLESS OPERATED BY A SINGLE ACTION w/ A LEVER FROM THE INSIDE OF THE AREA SERVED.
9. REGARDLESS OF THE OCCUPANT LOAD SERVED EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE w/o THE USE OF A KEY OR ANY SPECIAL EFFORT.
10. MANUALLY-OPERATED EDGE OR SURFACE-MOUNTED FLUSH BOLTS & SURFACE BOLTS OR ANY TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THEN THE OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED & ARE PROHIBITED.
11. EXIT DOORS USED AS PAIRS w/ APPROVED AUTOMATIC FLUSH BOLTS SHALL NOT HAVE DOOR KNOBS OR SURFACE-MOUNTED HARDWARE ON THE INACTIVE LEAF.
12. POST A SIGN THAT READS, " THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." USE LETTERS 1-INCH HIGH ON A CONTRASTING BACKGROUND AT THE MAIN EXIT.
13. ALL COMPONENTS OF FIRE-RATED DOOR ASSEMBLIES SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY, INCLUDING DOOR, FRAME, LATCH, & CLOSING DEVICES.
14. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FIRE DOORS TO THE BUILDING INSPECTOR.
15. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
16. ALL DOORS TO ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 5 OR MORE SHALL BE EQUIPPED WITH HARDWARE THAT IS LOCKABLE FROM THE INSIDE PER CBC 1010.1.11 & AB 3205.

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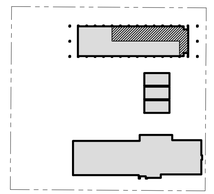

LICENSED ARCHITECT
MICHAEL UNDERHILL
C-31-25
C-19752
STATE OF CALIFORNIA

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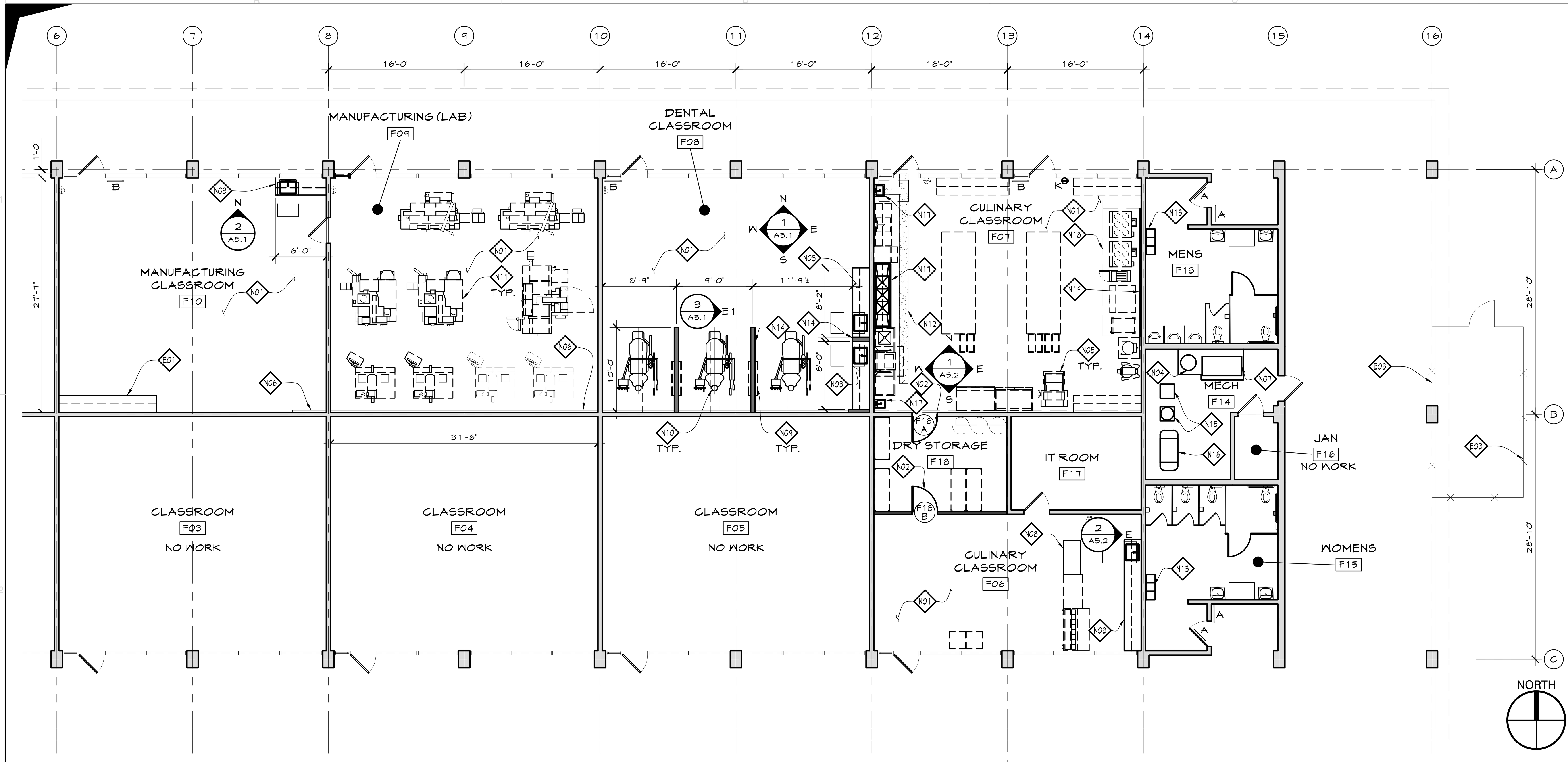
NO.	REVISION DESCRIPTION	DATE

SCHEDULES

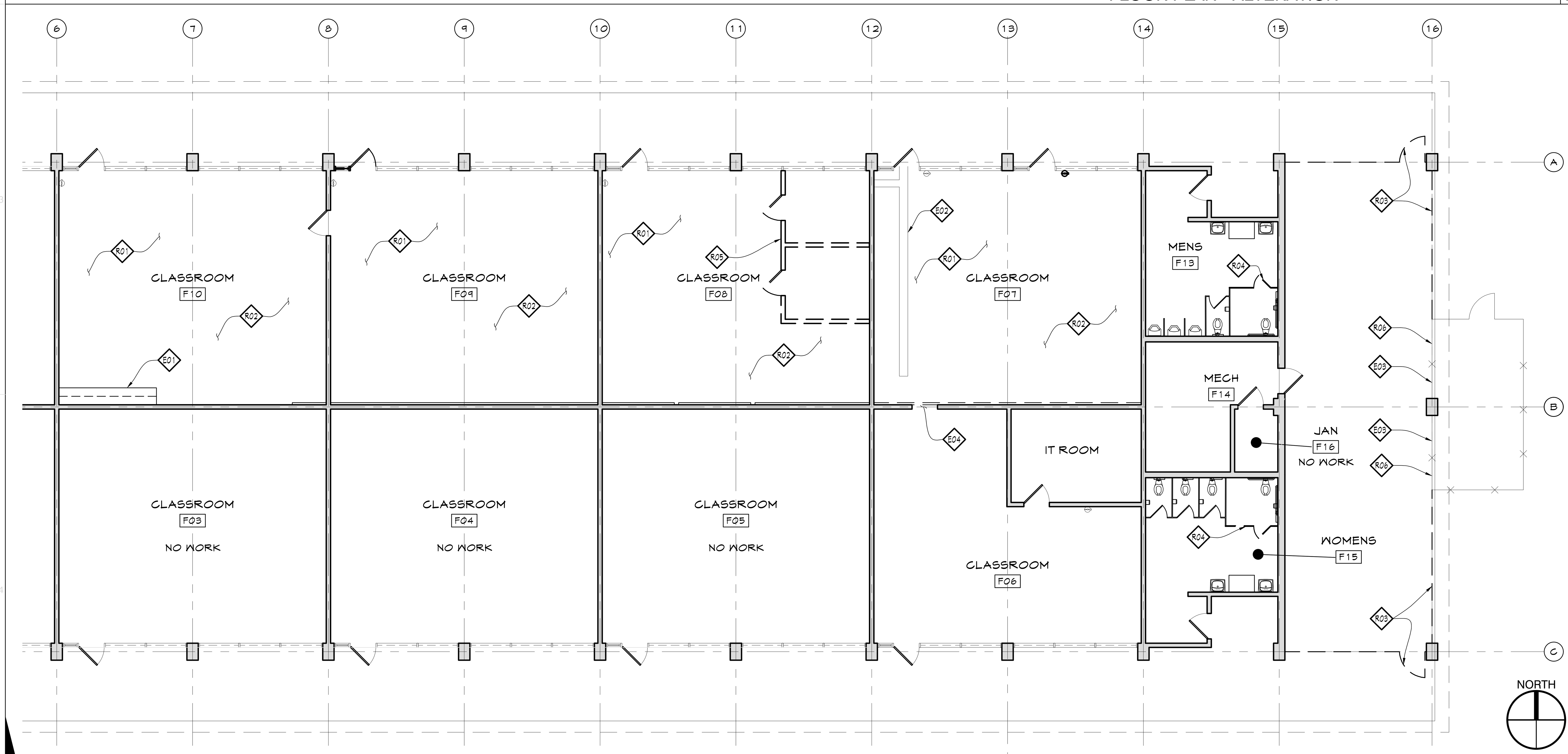
DATE	2023-03-01
PROJECT NO.	21-W04-01

A2.0



FLOOR PLAN - ALTERATION

SCALE: 1/8" = 1'-0" 2



FLOOR PLAN - DEMOLITION

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

KEYNOTES

E EXISTING

E01 CASEWORK TO REMAIN
E02 OPEN SLAB FOR FUTURE WORK
E03 CHAIN LINK FENCE TO REMAIN
E04 WALL OPENING FOR (N) DOOR

R REMOVAL / DEMOLITION

R01 WALL BASE, TYP.
R02 FLOORING & ADHESIVE WILL BE REMOVED BY OWNER PRIOR TO CONSTRUCTION
R03 CHAIN LINK FENCE & GATE
R04 TOILET PARTITION & DOOR
R05 INTERIOR WALLS
R06 HOG PANEL PANELS ON (E) FENCE
R07 CASEWORK & RELOCATE SINK

N NEW / ALTERATION

N01 FLOORING - SEE SHT. A2.0 - ROOM FINISH SCHEDULE
N02 DOOR
N03 CASEWORK - SEE INTERIOR ELEVATION
N04 WATER HEATER - SEE PLUMB. DWGs.
N05 CULINARY EQUIPMENT, OFOI - SEE EQPT. PLAN SHT. A2.3
N06 UTILITY CHASE - SEE DTL. 2/A9.1
N07 MANUFACTURING AIR COMPRESSOR, OFCI - SEE EQPT. PLAN SHT. A2.3
N08 ISLAND COUNTER
N09 X-RAY HOUSING CABINET, OFOI - SEE EQPT. PLAN SHT. A2.3
N10 DENTAL CHAIR, OFOI - SEE EQPT. PLAN SHT. A2.3
N11 MANUFACTURING EQUIPMENT, OFOI - SEE EQPT. PLAN SHT. A2.3
N12 PATCH CONC. - SEE DTL. 13/A9.1
N13 (3) 1/3 HEIGHT LOCKERS - SEE DTL. 10/A9.1
N14 2x6 WALL w/ 5/8" GYP. BD. BOTH SIDES. - SEE DTL. 6/A9.1
N15 DENTAL VACUUM SYSTEM, OFCI - SEE EQPT. PLAN SHT. A2.3
N16 DENTAL AIR COMPRESSOR, OFCI - SEE EQPT. PLAN SHT. A2.3
N17 CULINARY EQPT. SINK, OFCI - SEE EQPT. PLAN SHT. A2.3
N18 EXHAUST HOOD, OFCI - SEE EQPT. PLAN SHT. A2.3
N19 S/S LINER PANEL, OFCI - SEE EQPT. PLAN SHT. A2.3

SIGNAGE LEGEND

A RESTROOM SIGN - SEE DTL. 7/A9.1
B ALS SIGN - SEE DTL. 4/A9.1

FIRE EXTINGUISHER LEGEND

(E) 2A:10BC:C FIRE EXTINGUISHER
(N) TYPE K FIRE EXTINGUISHER

LEGEND

(E) DOOR
(N) DOOR, FRAME & HARDWARE
30"x48" CLR. FLR. SPACE
60"x56" CLR. FLR. SPACE

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KEY PLAN

NORTH

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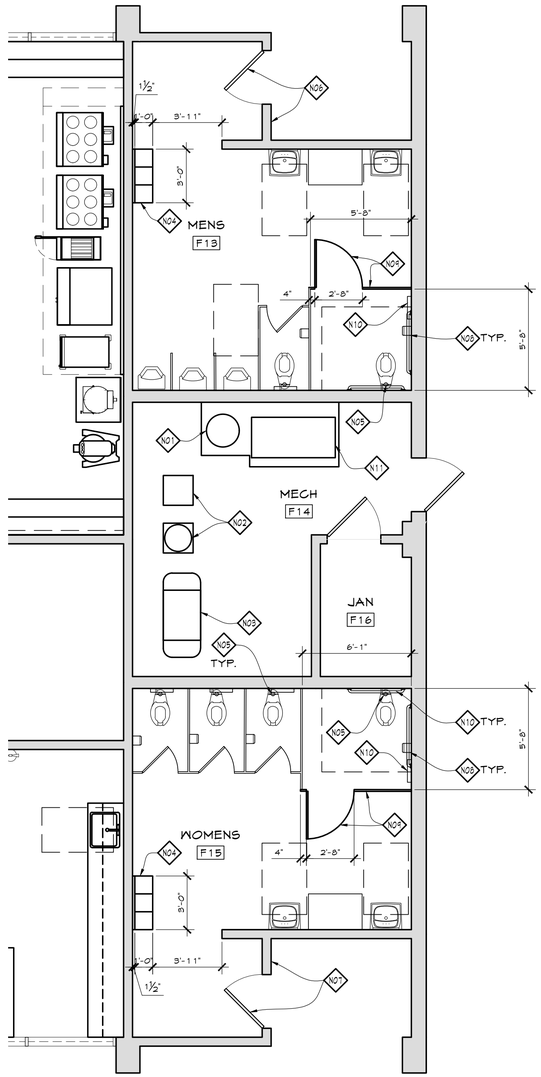
FLOOR PLANS

DATE 2023-03-01
PROJECT NO. 21-W04-01

A2.1

NOT USED

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



ENLARGED MENS, MECH, JAN & WOMENS FLOOR PLAN

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

NORTH

KEYNOTES

N NEW / ALTERATION

N01 WATER HEATER - SEE PLUMB. DWGs.

N02 DENTAL VACUUM SYSTEM, OFCI

N03 DENTAL AIR COMPRESSOR, OFCI

N04 (3)1/3 HEIGHT LOCKERS - SEE DTL. 10/A9.1

N05 REPLACE TH FLUSH VALVE w/ AN AUTOMATIC FLUSH VALVE - SEE PLUMBING DWGs.

N06 INSTALL MENS RESTROOM SIGNS - SEE DTL. 8/A9.1

N07 INSTALL WOMENS RESTROOM SIGNS - SEE DTL. 7/A9.1

N08 REMOVE/ REINSTALL THE TOILET PAPER DISPENSER- SEE DTL. 9/A9.1

N09 TOILET PARTITION & 32" WIDE MIN. DOOR TO MATCH (E)

N10 REMOVE/ REINSTALL THE SEAT COVER DISPENSER - SEE DTL. 9/A9.1

N11 MANUFACTURING AIR COMPRESSOR, OFCI

LEGEND

(E) DOOR

(N) DOOR, FRAME & HARDWARE

30"x48" CLR. FLR. SPACE

60"x56" CLR. FLR. SPACE

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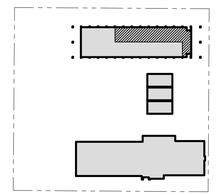
KEY PLAN



NORTH

LICENSED ARCHITECT MICHAEL UNDERHILL RE 7-31-22 C-19752 STATE OF CALIFORNIA

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ENLARGED FLOOR PLAN

DATE	2023-03-01
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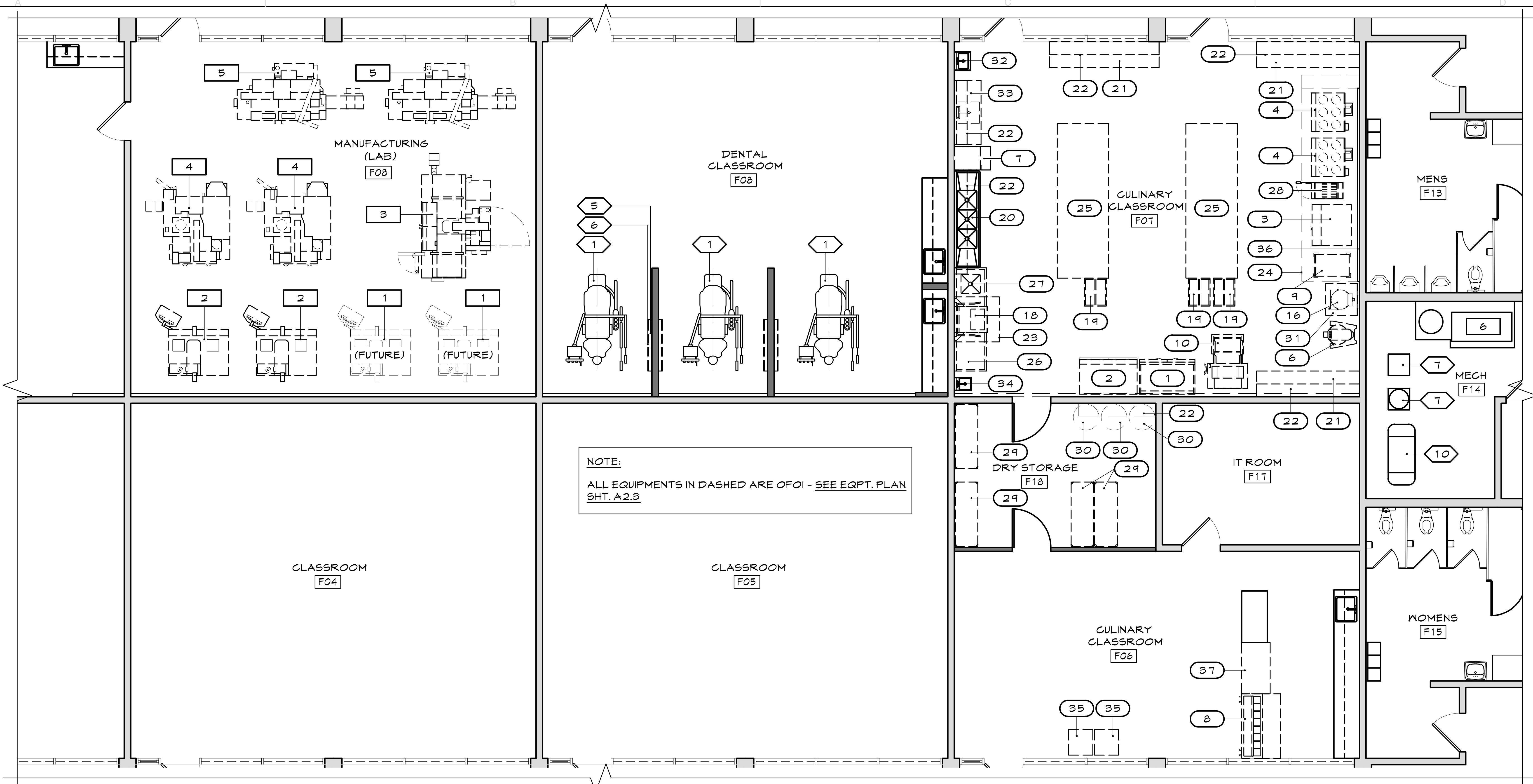
A2.2



CULINARY EQUIPMENT SCHEDULE

ITEM NUMBER	QTY.	ITEM DESCRIPTION	MANUFACTURER	NOTES
1	1	2-DOOR REFRIGERATOR	BEVERAGE AIR	
2	1	2-DOOR FREEZER	ENTREE	
3	1	OVEN	DOYON	
4	2	RANGE	IMPERIAL	
5	1	MEAT SLICER	BIZERBA	COUNTERTOP ITEM
6	1	PLANETARY MIXER	GLOBE	
7	1	ICE MACHINE	MANITOWOC	
8	1	PREP TABLE	BEVERAGE AIR	
9	1	PROOFING CABINET	SERVE-WARE	
10	1	DOUGH SHEETER	AMPTO	
11	1	PLANETARY MIXER	GLOBE	COUNTERTOP ITEM
12	1	PLANETARY MIXER	SERV-WARE	COUNTERTOP ITEM
13	4	INDUCTION TABLE TOP STOVE BURNER	VOLLRATH	COUNTERTOP ITEM
14	1	FOOD PROCESSOR	ROBOT COUPE	COUNTERTOP ITEM
15	1	MICROWAVE OVEN	AMANA	COUNTERTOP ITEM
16	1	PIZZA OVEN	TURBOCHEF	
17	1	TOASTER	WARING	COUNTERTOP ITEM
18	1	DISHWASHER	JACKSON WWS	
19	3	SHEET PAN RACK	WINHOLT EQUIPMENT	
20	1	3-COMPARTMENT SINK	GSW USA	
21	3	S/S WORKTABLE W/ UNDERSHELF	CUSTOM	LENGTH VARIES
22	8	12" S/S UPPER SHELF	CUSTOM	LENGTH VARIES
23	1	CONDENSATE HOOD	CAPTIVE-AIRE	
24	1	42"X180" EXHAUST HOOD	CAPTIVE-AIRE	INCL. ANSUL FIRE SUPPRESSION SYSTEM
25	2	48"X" 144" S/S WORK TABLE W/ UNDERSHELF	CUSTOM	
26	1	DISHWASHER SIDE TABLE	CUSTOM	
27	1	DISHWASHER SIDE TABLE	CUSTOM	
28	1	FRYER	VULCAN	
29	5	WIRE SHELVING	CALIFORNIA COOKING	LENGTH VARIES
30	3	INGREDIENT BIN	RUBBERMAID	
31	1	30"X30" S/S WORK TABLE	-	
32	1	HANDWASHING SINK 1	-	
33	1	60" SS COUNTER W/ 20"X20" FOOD PREP SINK	-	

CULINARY EQUIPMENT SCHEDULE

ITEM NUMBER	QTY.	ITEM DESCRIPTION	MANUFACTURER	NOTES
34	1	HANDWASHING SINK 2	-	
35	2	REFRIGERATOR - BEVERAGE COOLER	PREMIUM	
36	1	S/S LINER PANEL	-	
37	1	48" CURVED GLASS BAKERY DISPLAY CASE	AVANTCO	

DENTAL EQUIPMENT SCHEDULE

ITEM NUMBER	QTY.	ITEM DESCRIPTION	MANUFACTURER	NOTES
1	3	CHAIR	ADS DENTAL	
2	3	LIGHTS	ADS DENTAL	PART OF NO. 1 ITEM
3	1	COCOON	-	COUNTERTOP ITEM
4	1	CAMERA	-	COUNTERTOP ITEM
5	2	XRAY	MIDMARK	
6	2	XRAY PASS THROUGH CABINET	DCI INTERNATIONAL	
7	1	VACUUM	TRU-VAC	
8	-	-	-	
9	2	AUTOCLAVE	TUTTNAUER	COUNTERTOP ITEM
10	1	AIR COMPRESSOR	ATLAS COPCO AIR COMPRESSOR	
11	1	ULTRASONIC CLEANER	MIDMARK	COUNTERTOP ITEM

MANUFACTURING LAB EQUIPMENT SCHEDULE

ITEM NUMBER	QTY.	ITEM DESCRIPTION	MANUFACTURER	NOTES
1	2	ROUTER MILL	TORMACH	(2) FUTURE
2	2	ROUTER MILL	TORMACH	
3	1	TOOL ROOM CNC MILL	HAAS	
4	2	CNN MILL	HAAS	
5	2	CNC LATHE	HAAS	
6	1	AIR COMPRESSOR	ATLAS COPCO AIR COMPRESSOR	

MEP COMPONENT ANCHORAGE NOTE

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

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 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.

EQUIPMENT PLAN

SCALE: ############ 1

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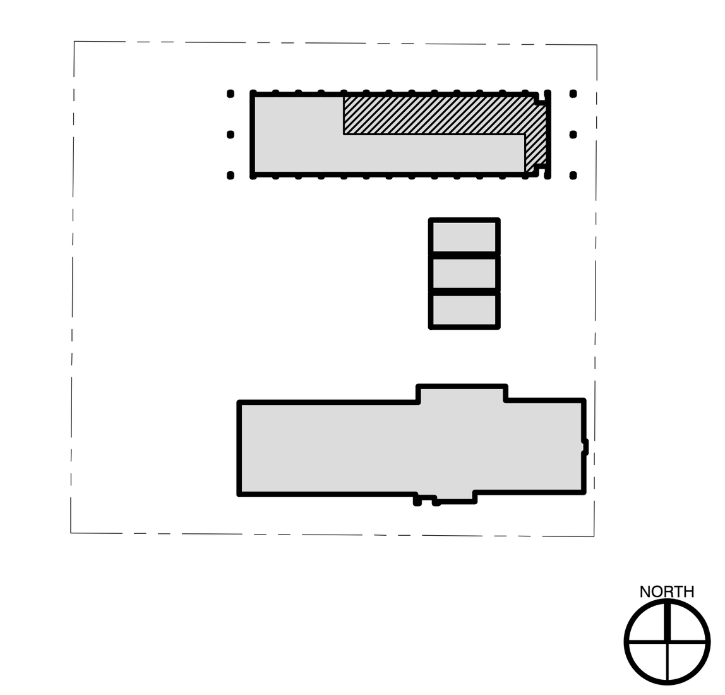

LICENSED ARCHITECT
MICHAEL UNDERHILL
EXPIRES 7-31-25
C-19752
STATE OF CALIFORNIA

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EQUIPMENT SCHEDULES

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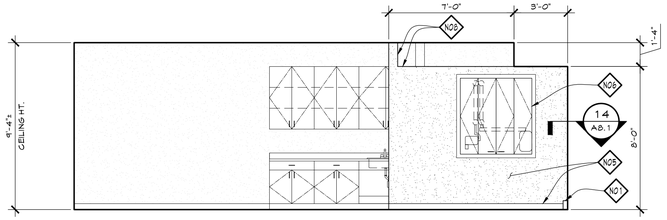
A2.3

PROVIDE LOCKS ON ALL CABINETS

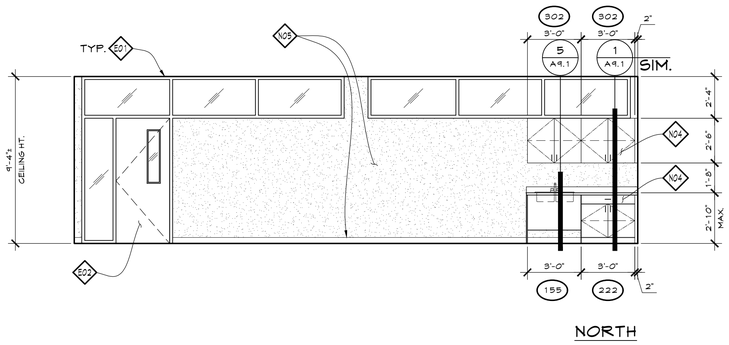


EAST 1

ROOM F08 - DENTAL CLASSROOM

SCALE: 1/4" = 1'-0" | 3

PROVIDE LOCKS ON ALL CABINETS

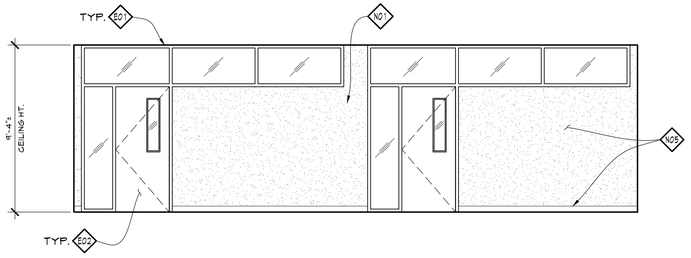


NORTH

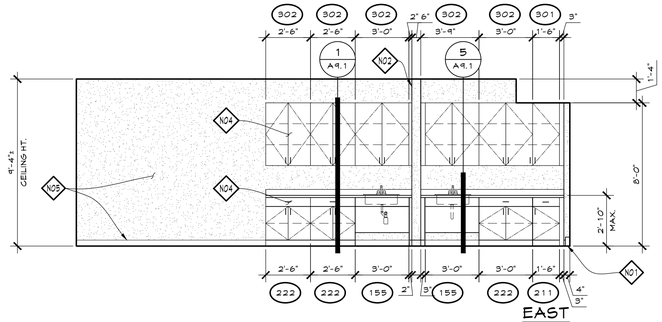
ROOM F10 - MANUFACTURING CLASSROOM

SCALE: 1/4" = 1'-0" | 2

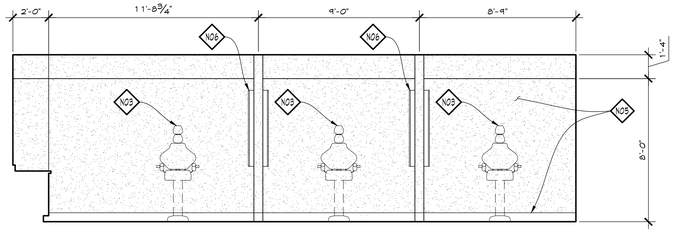
PROVIDE LOCKS ON ALL CABINETS



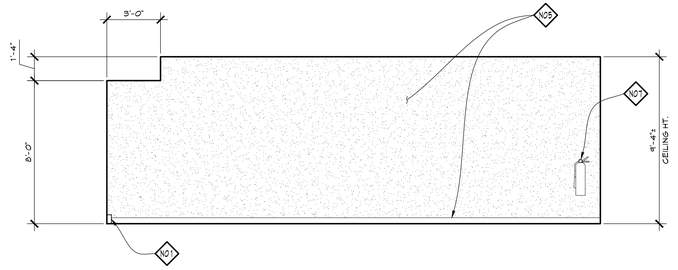
NORTH



EAST



SOUTH



WEST

ROOM F08 - DENTAL CLASSROOM

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

KEYNOTES

E EXISTING

E01 WINDOW
E02 DOOR

N NEW / ALTERATION

N01 UTILITY CHASE - SEE DTL. 2/A9.1
N02 2x6 WALL w/ ⅝" GYP. BD. BOTH SIDES - SEE DTL. 6/A9.1
N03 DENTAL CHAIR, OFOI - SEE EQPT. PLAN SHT. A2.3
N04 CASEWORK
N05 WALL PAINT & BASE - SEE SHT. A2.0 - ROOM FINISH SCHEDULE
N06 X-RAY HOUSING CABINET, OFOI - SEE EQPT. PLAN SHT. A2.3
N07 FIRE EXTINGUISHER
N08 2x6 WALL w/ ⅝" GYP. BD. BOTH SIDES - SEE DTL. 6/A9.1

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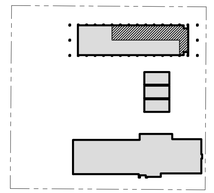

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INTERIOR ELEVATIONS

DATE	2023-03-01
PROJECT NO.	21-W04-01

A5.1

KEYNOTES

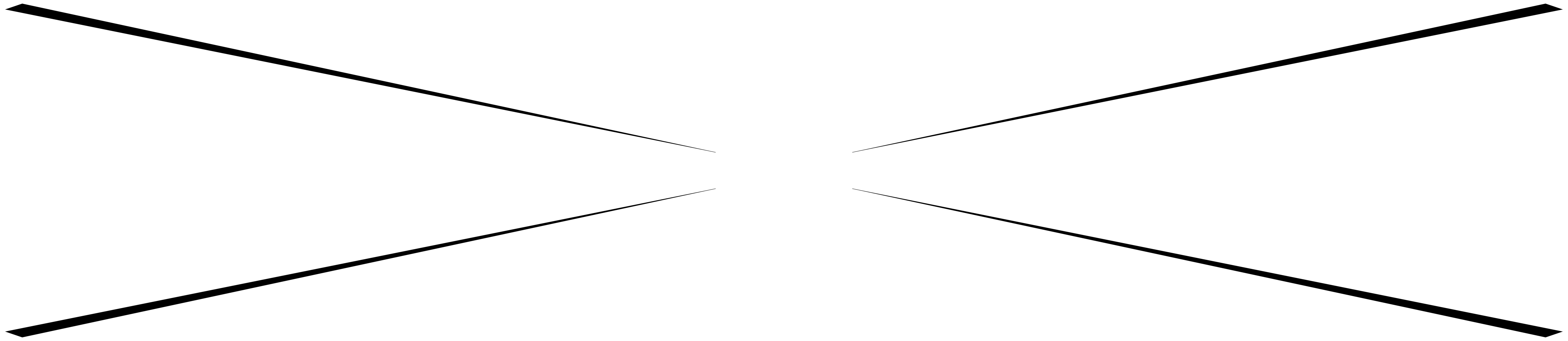
EXISTING

- E01 WINDOW
- E02 DOOR

NEW / ALTERATION

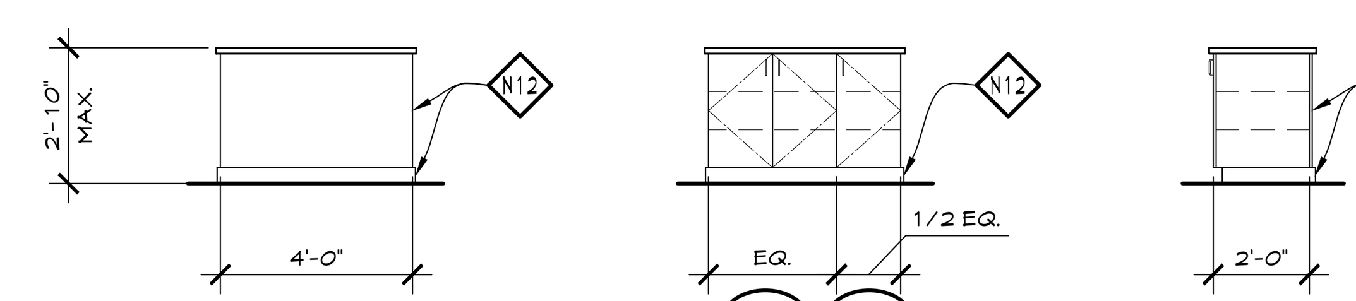
- N01 S/S LINER PANEL, OFCI - SEE EQPT. PLAN SHT. A2.3
- N02 FRP WAINSCOT - SEE SHT. A2.0 - ROOM FINISH SCHEDULE
- N03 FIRE EXTINGUISHER
- N04 KITCHEN HOOD, OFCI - SEE EQPT. PLAN SHT. A2.3
- N05 WALL PAINT - SEE SHT. A2.0 - ROOM FINISH SCHEDULE
- N06 THREE COMPARTMENT STAINLESS STEEL SINK, OFCI - SEE EQPT. PLAN SHT. A2.3
- N07 ONE COMPARTMENT STAINLESS STEEL SINK, OFCI - SEE EQPT. PLAN SHT. A2.3
- N08 HANDWASHING STAINLESS STEEL SINK, OFCI - SEE EQPT. PLAN SHT. A2.3
- N09 EPOXY BASE - SEE SHT. A2.0 - ROOM FINISH SCHEDULE
- N10 UTILITY CHASE - SEE DTL. 2/A9.1
- N11 HANDWASHING SINK - SEE EQPT. PLAN SHT. A2.3
- N12 PANEL & BASE BOARD TO MATCH CASEWORK

NOT USED — SCALE: NONE — 3



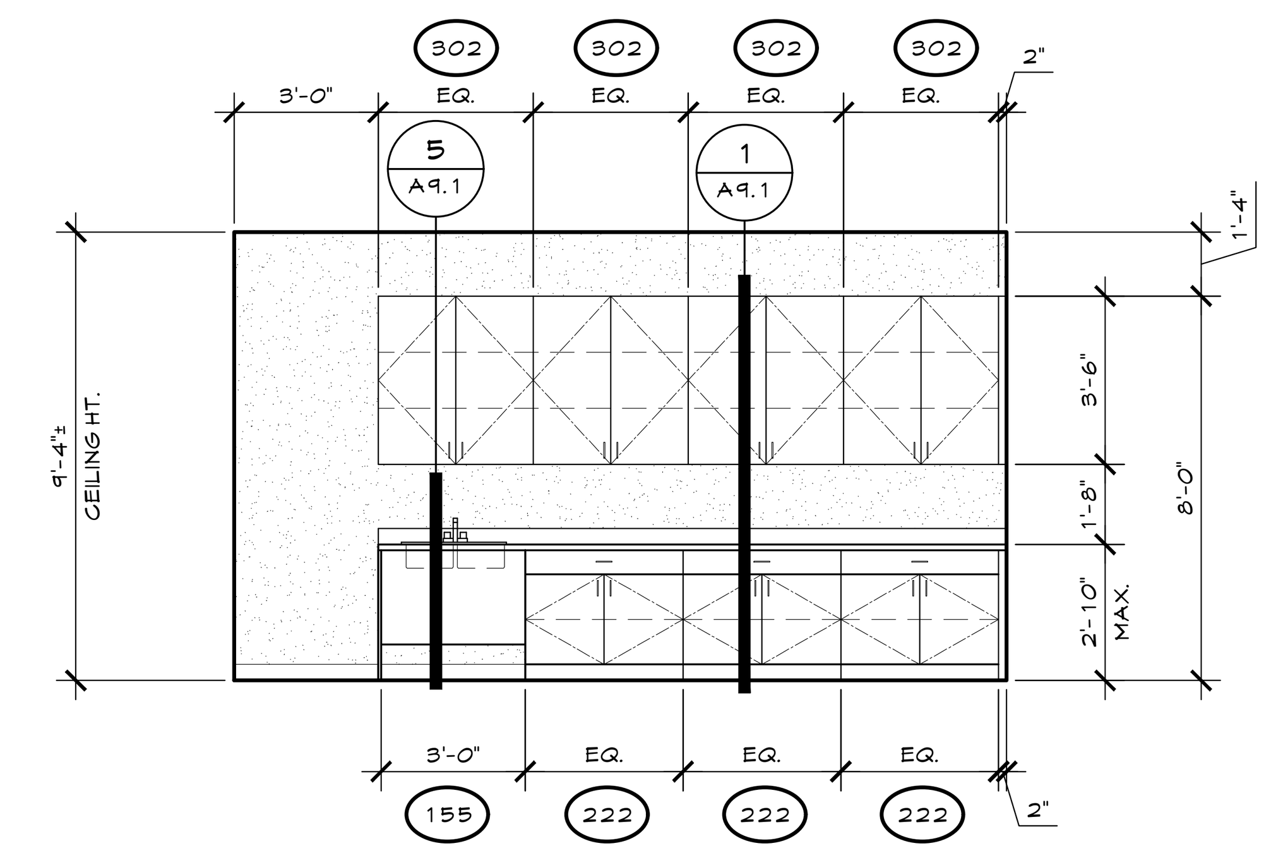
BACK FRONT SIDE

ROOM F06 - CULINARY CLASSROOM - ISLAND COUNTER — SCALE: 1/4" = 1'-0" — 4

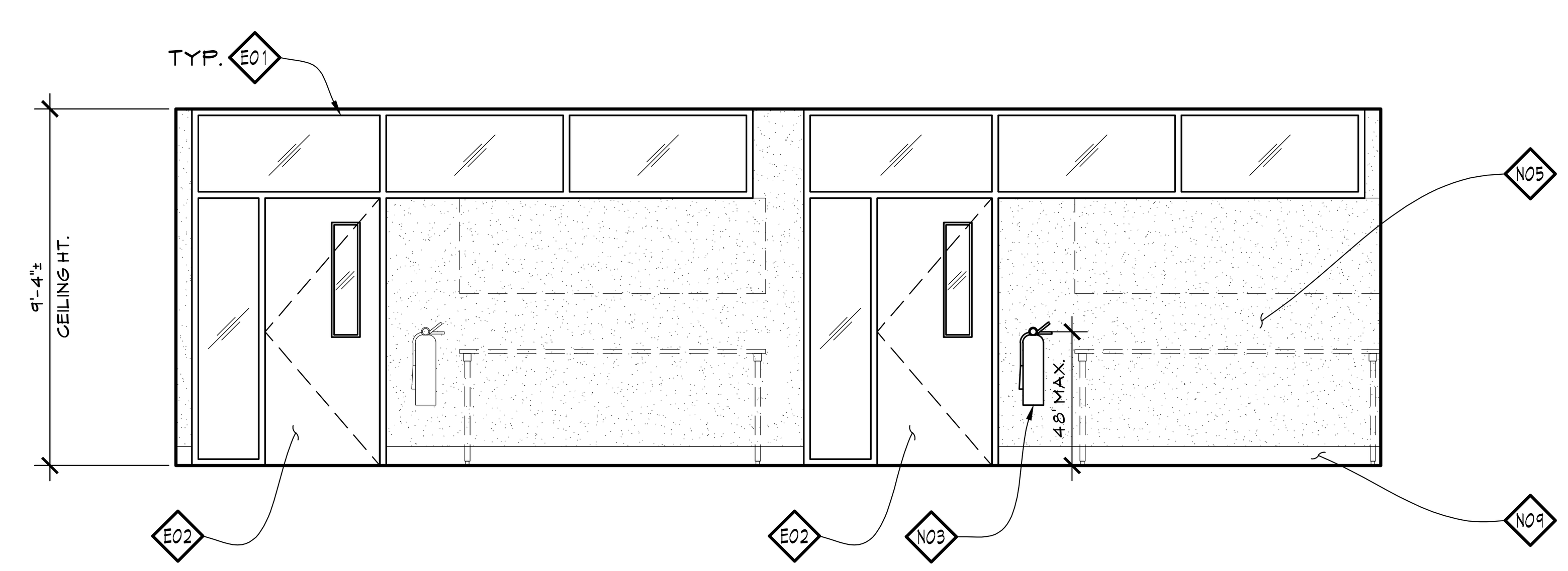


EAST

ROOM F06 - CULINARY CLASSROOM — SCALE: 1/4" = 1'-0" — 2

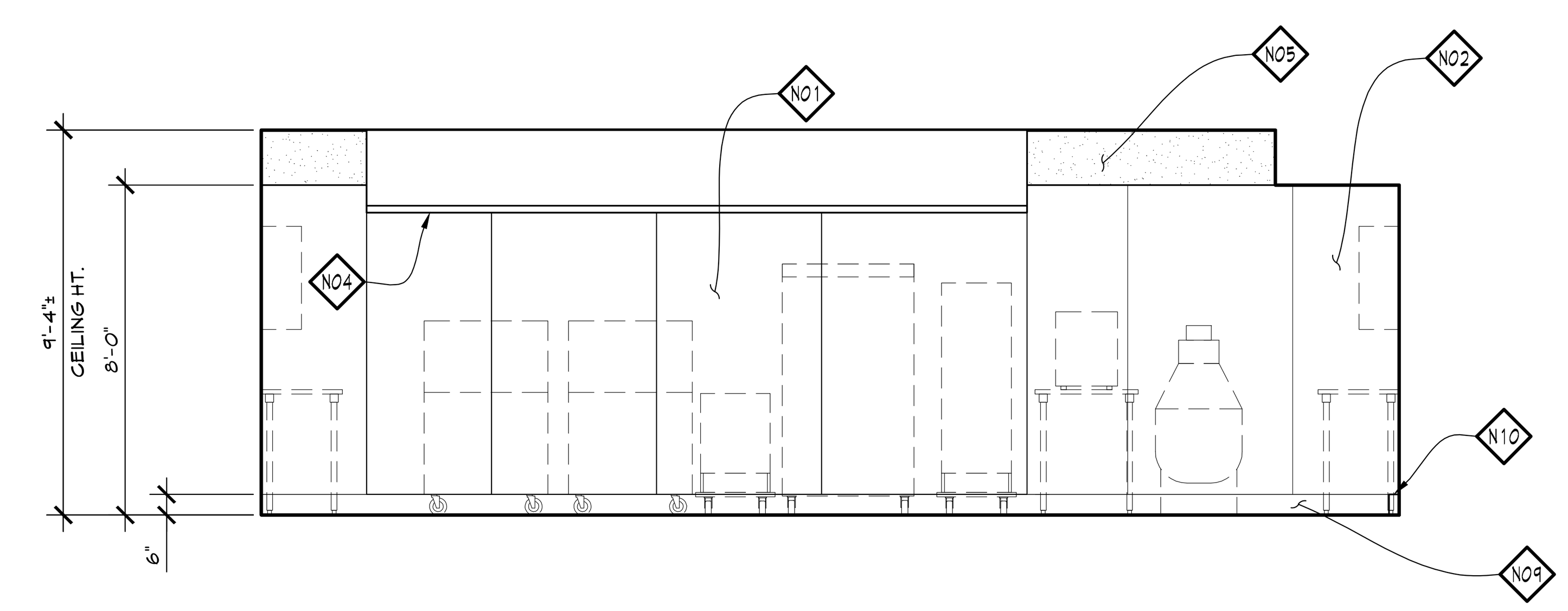


NORTH

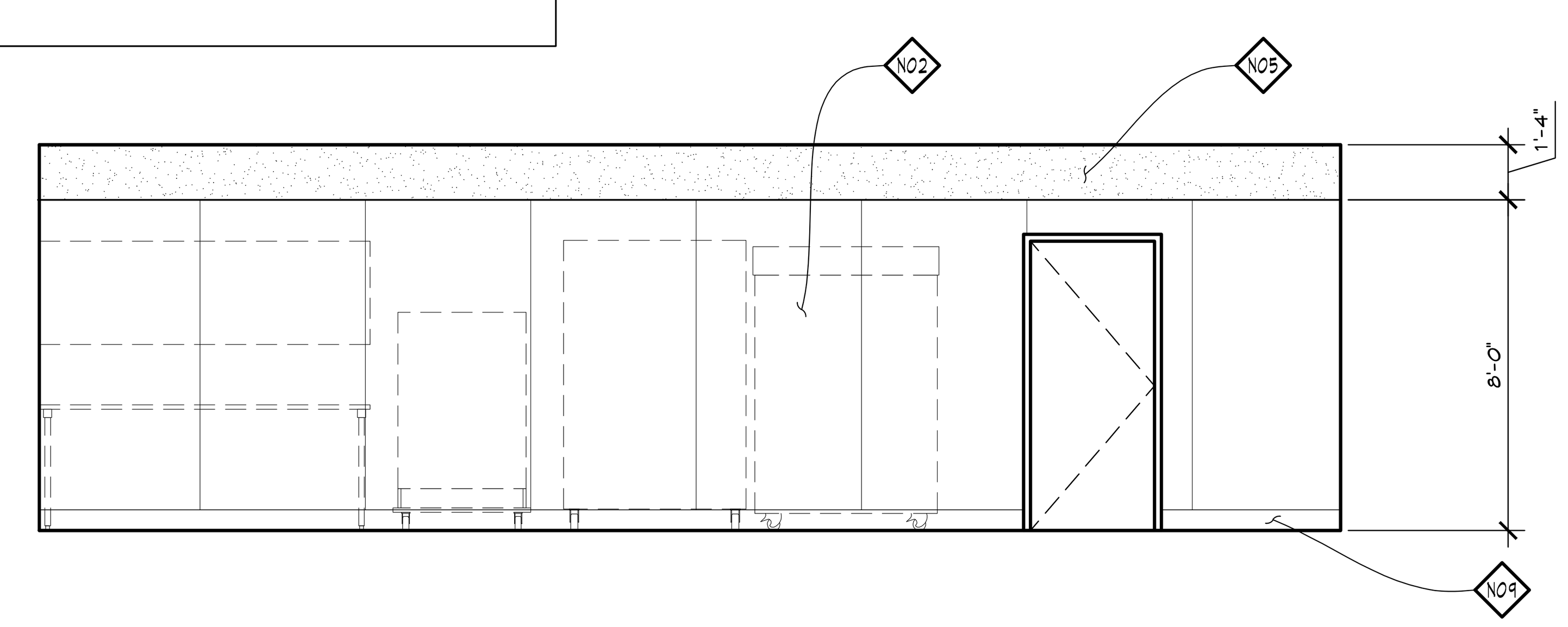


EAST

NOTE:
ALL EQUIPMENTS IN DASHED ARE OFOI - SEE EQPT. PLAN SHT. A2.3



SOUTH



WEST

ROOM F07 - CULINARY CLASSROOM — SCALE: 1/4" = 1'-0" — 1

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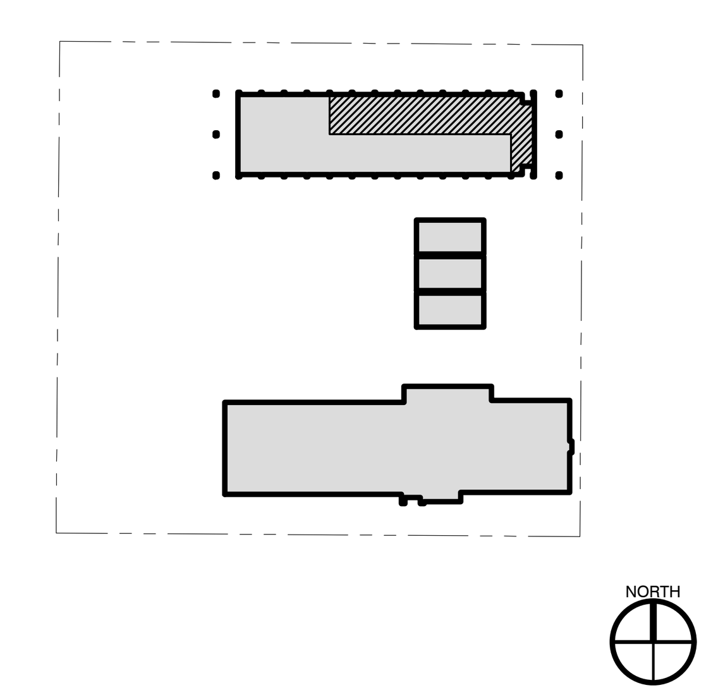

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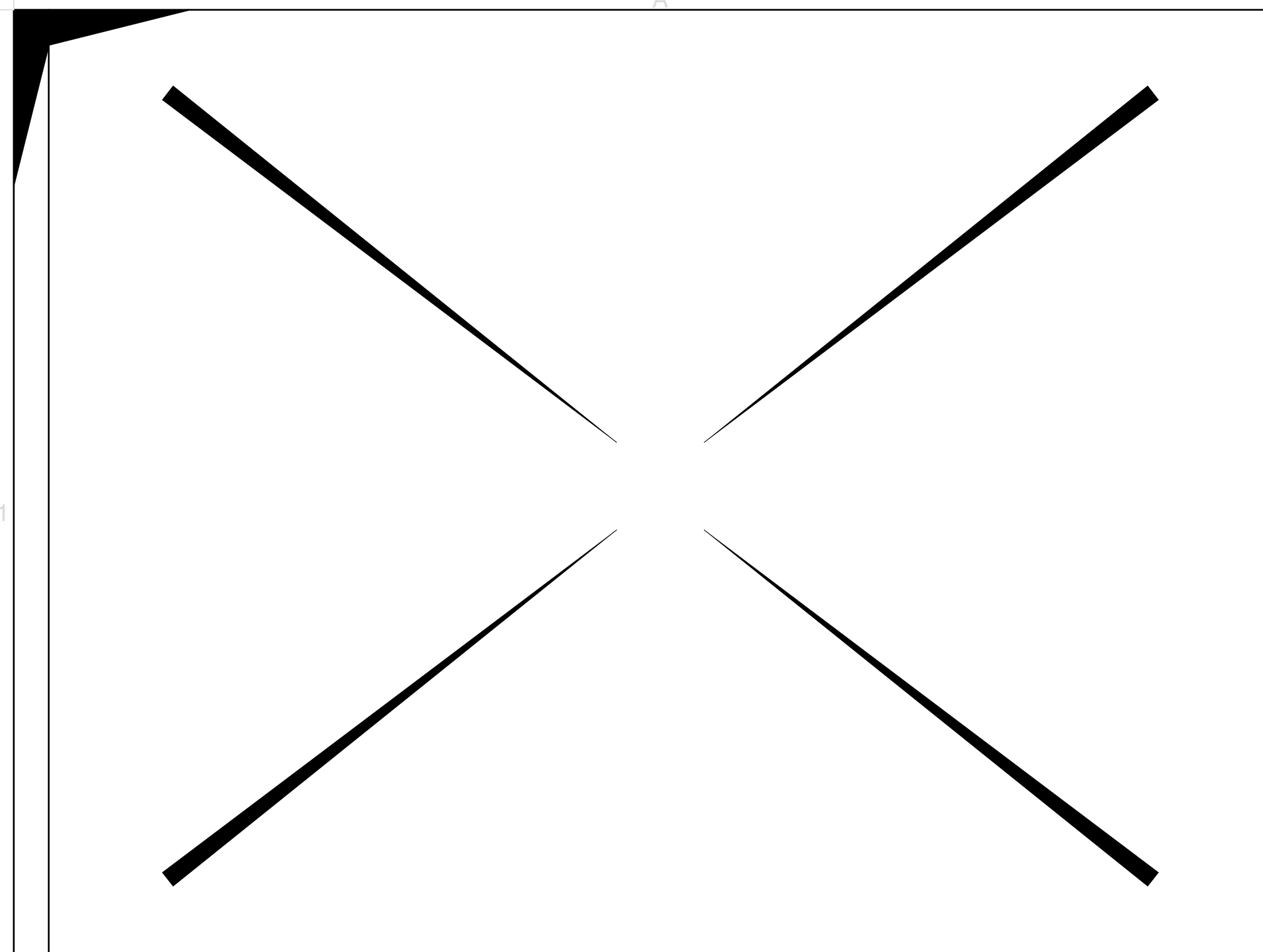
INTERIOR ELEVATIONS

DATE 2023-03-01
PROJECT NO. 21-W04-01

A5.2



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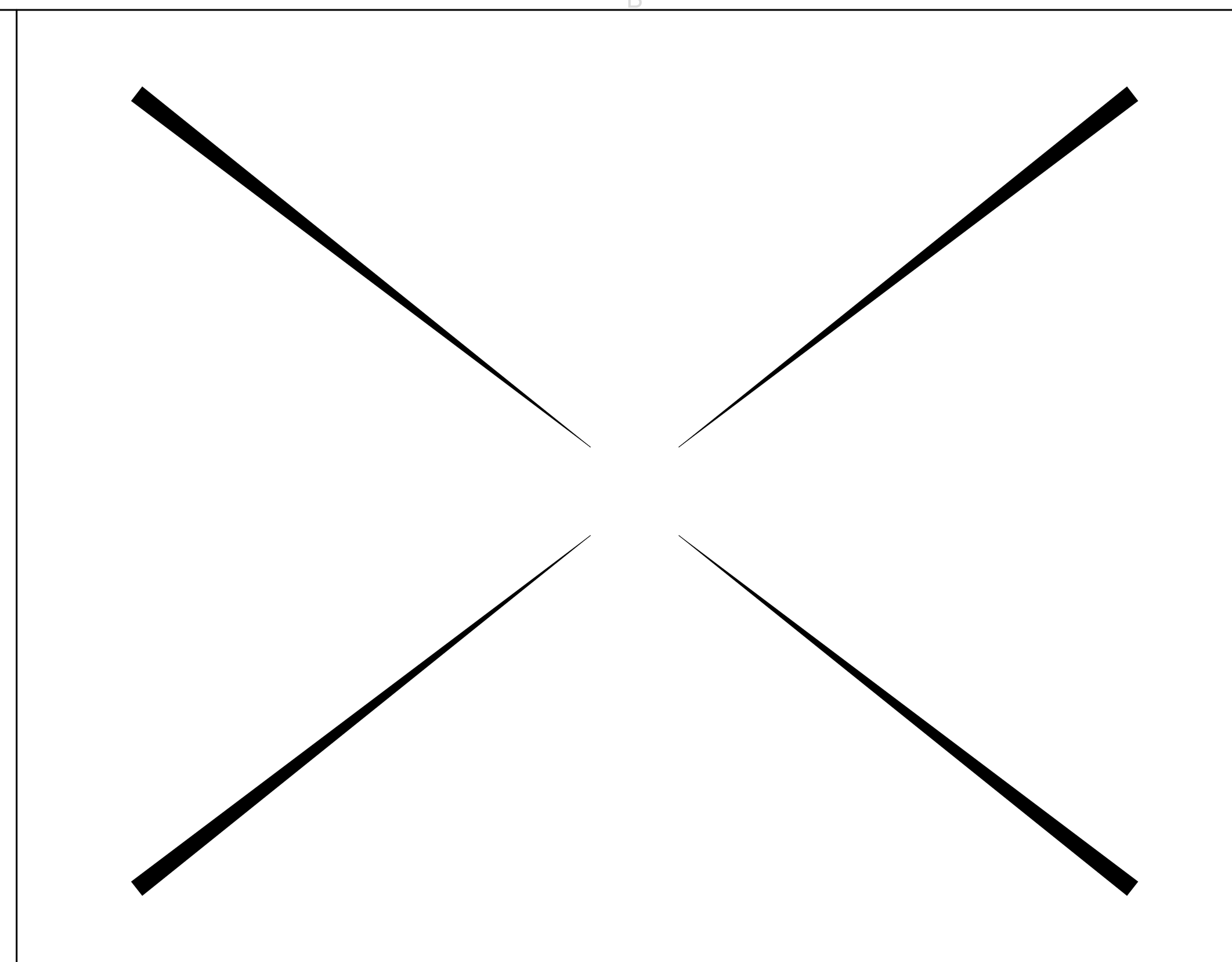

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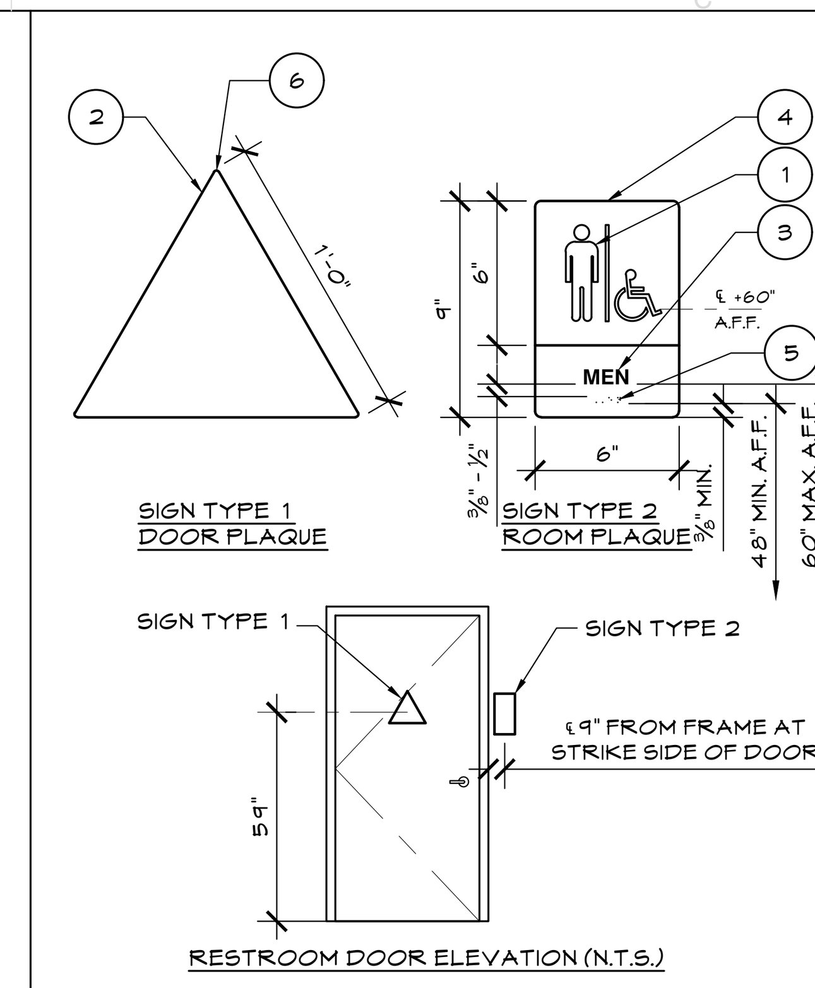
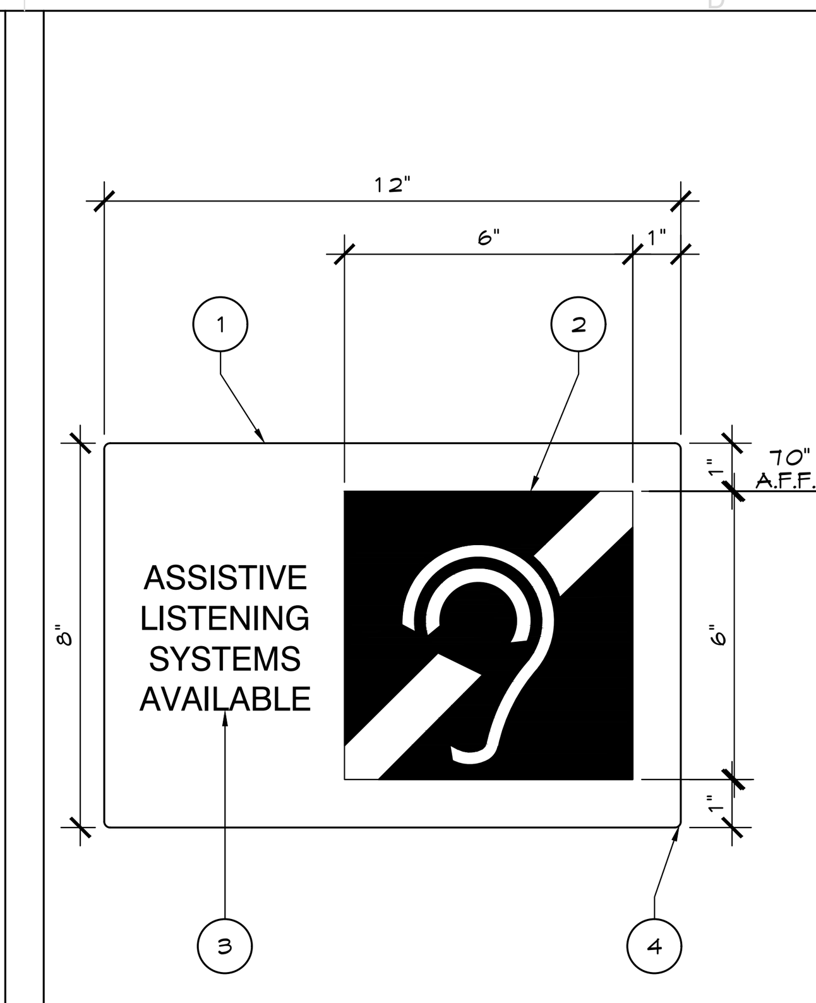


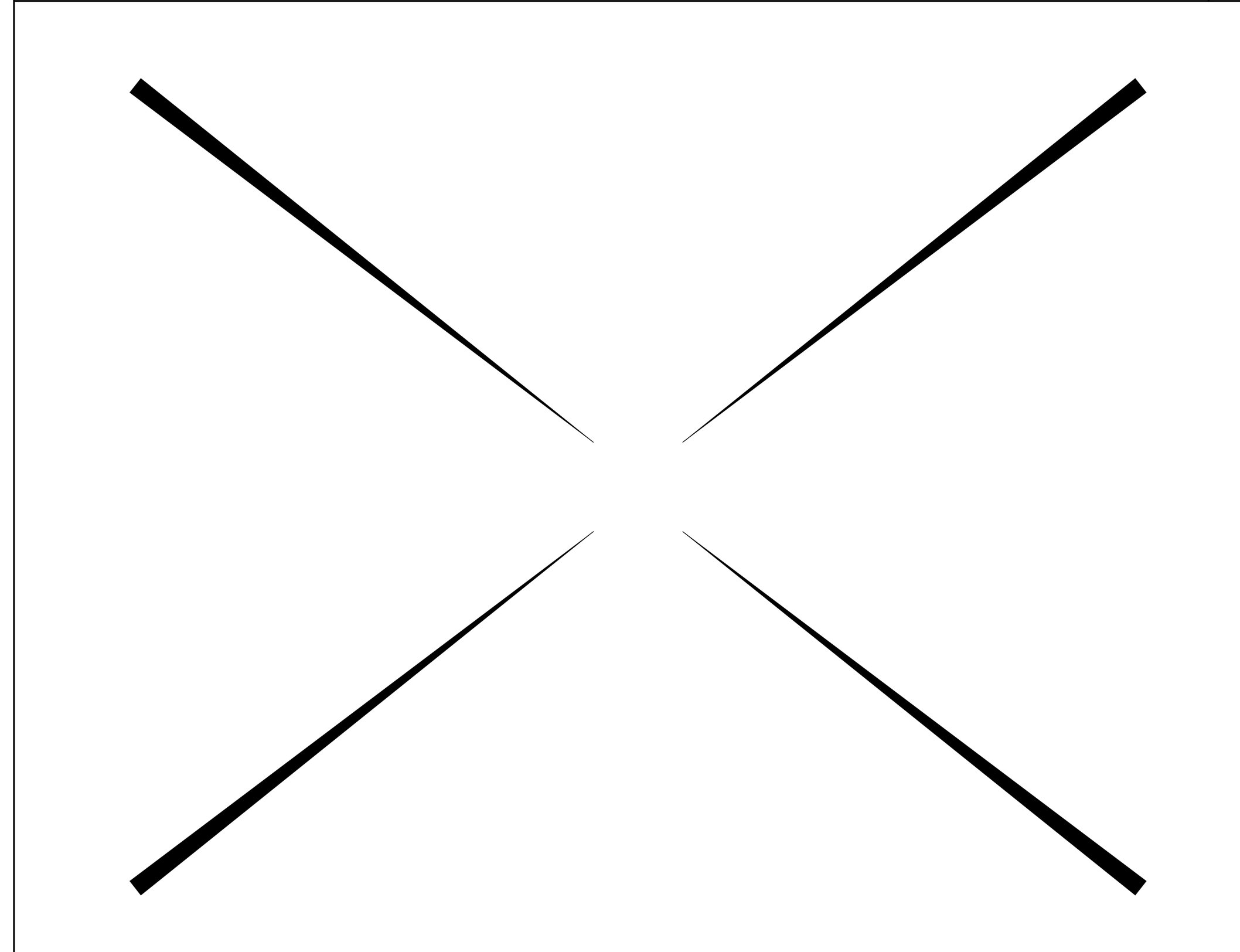
1. PICTOGRAM RAISED 1/32"
2. 12" EQUILATERAL TRIANGLE RESTROOM PLAQUE: 1/4" THICK ACRYLIC PLASTIC, OPAQUE. SECURE TO DOOR w/ TAMPER RESISTANT FASTENERS. SYMBOLS AND LETTERING SHALL BE WHITE ON BLUE BACKGROUND U.O.N. BACKGROUND COLOR SHALL CONTRAST w/ DOOR COLOR
3. 5/8" TALL SANS SERIF UPPERCASE LETTERS, RAISED 1/32"
4. ROOM PLAQUE: 1/8" THICK ACRYLIC PLASTIC, OPAQUE. SECURE TO WALL w/ TAMPER RESISTANT FASTENERS. SYMBOLS AND LETTERING SHALL BE WHITE ON BLUE BACKGROUND U.O.N.
5. CORRESPONDING BRAILLE
6. 1/8" MIN. - 1/4" MAX. RADIUS @ VERTICES

MENS ACCESSIBLE RESTROOM SIGN — SCALE: 1 1/2" = 1'-0" — 8

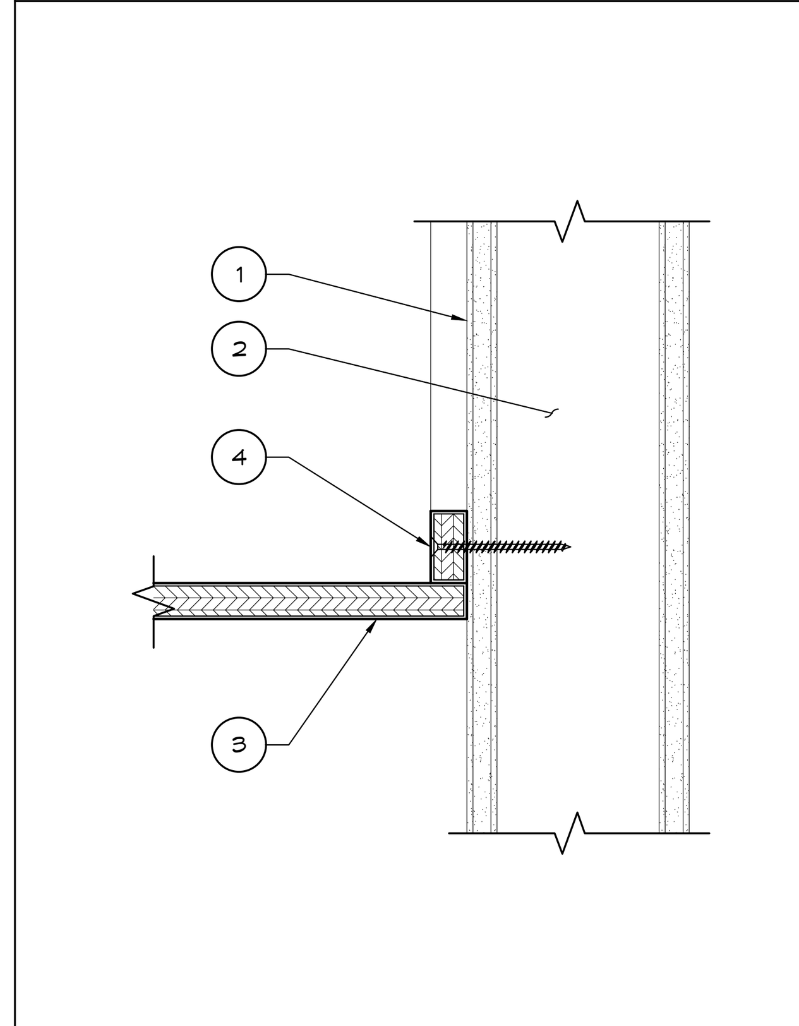


1. 1/8" THICK ACRYLIC PLASTIC OPAQUE. SECURELY FASTENED TO WALL. SYMBOLS AND LETTERING SHALL BE WHITE ON BLUE BACKGROUND
2. PICTOGRAM
3. SYMBOLS AND 5/8" MIN. HIGH TEXT SHALL CONTRAST w/ THEIR BACKGROUND; EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND
4. 1/8" RADIUSED CORNERS

ASSISTIVE LISTENING SYSTEM SIGN — SCALE: 3" = 1'-0" — 4

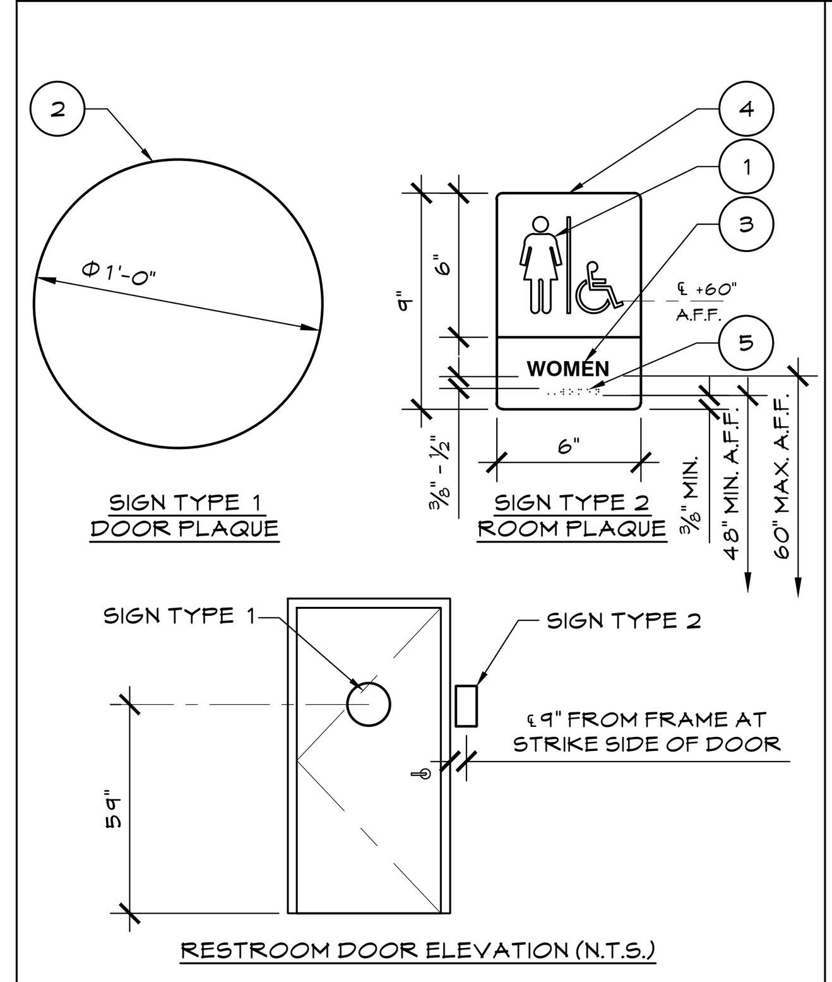


NOT USED — SCALE : NONE — 14



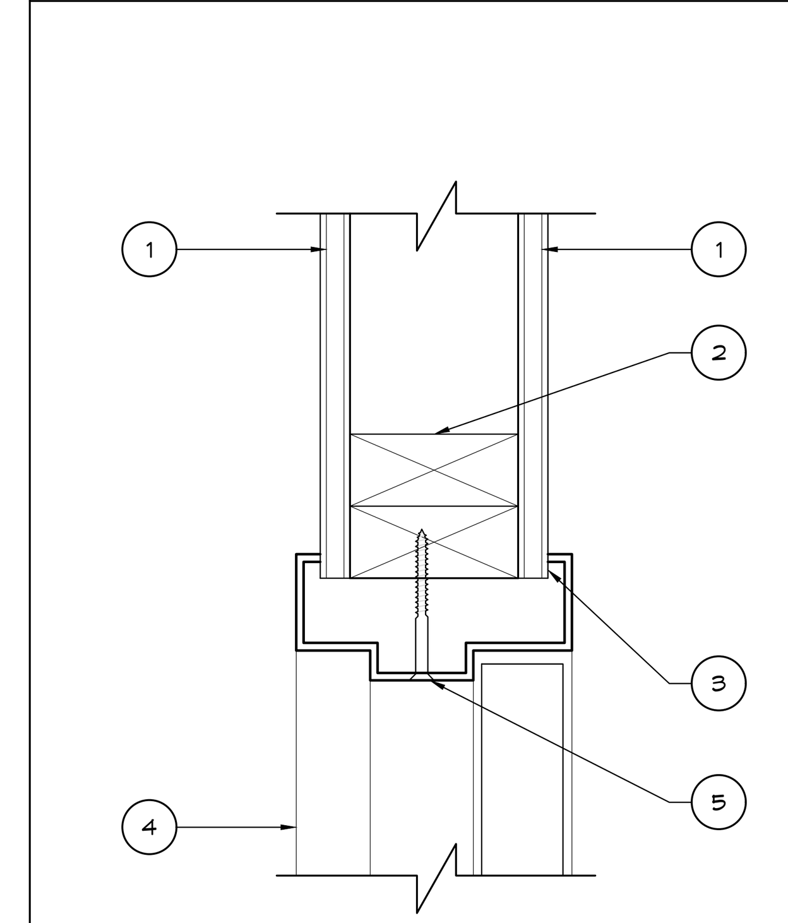
1. (E) GYP. BD.
2. (E) WD. STUD
3. UPPER CABINET
4. #10 x 3" WOOD SCREWS @ 32" O.C. MAX. TO VERT. STUDS W/ 1½" MIN. EMBED. MIN. (2) PER CABINET

UPPER CABINET CONNECTION — SCALE: 3" = 1'-0" — 11



1. PICTOGRAM RAISED 1/32"
2. 12" CIRCULAR RESTROOM PLAQUE: 1/4" THICK ACRYLIC PLASTIC, OPAQUE. SECURE TO DOOR w/ TAMPER RESISTANT FASTENERS. SYMBOLS AND LETTERING SHALL BE WHITE ON BLUE BACKGROUND U.O.N. BACKGROUND COLOR SHALL CONTRAST w/ DOOR COLOR
3. 5/8" TALL SANS SERIF UPPERCASE LETTERS, RAISED 1/32"
4. ROOM PLAQUE: 1/8" THICK ACRYLIC PLASTIC, OPAQUE. SECURE TO WALL w/ TAMPER RESISTANT FASTENERS. SYMBOLS AND LETTERING SHALL BE WHITE ON BLUE BACKGROUND U.O.N.
5. CORRESPONDING BRAILLE

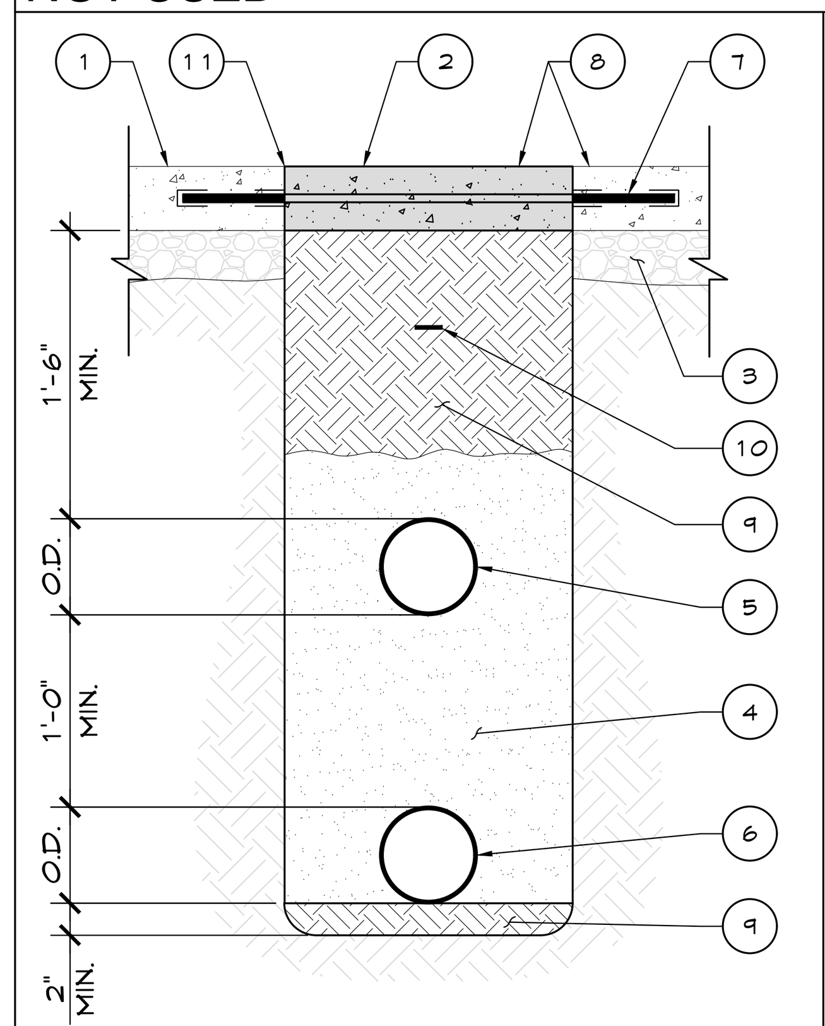
WOMENS ACCESSIBLE RESTROOM SIGN — SCALE: 1 1/2" = 1'-0" — 7



1. 5/8" TYPE "X" GYP. BOARD (U.O.N.) OR WOOD PANELS
2. (E) 2x WOOD FRAMING OR HEADER
3. GYP. BOARD INTO FRAME
4. PRESSED METAL FRAME (BEYOND)
5. JAMB PUNCHED & DIMPLED FOR 1/4"Φ S.M.S. SCREW 6" MAX. FROM ENDS @ 24" O.C. MAX.

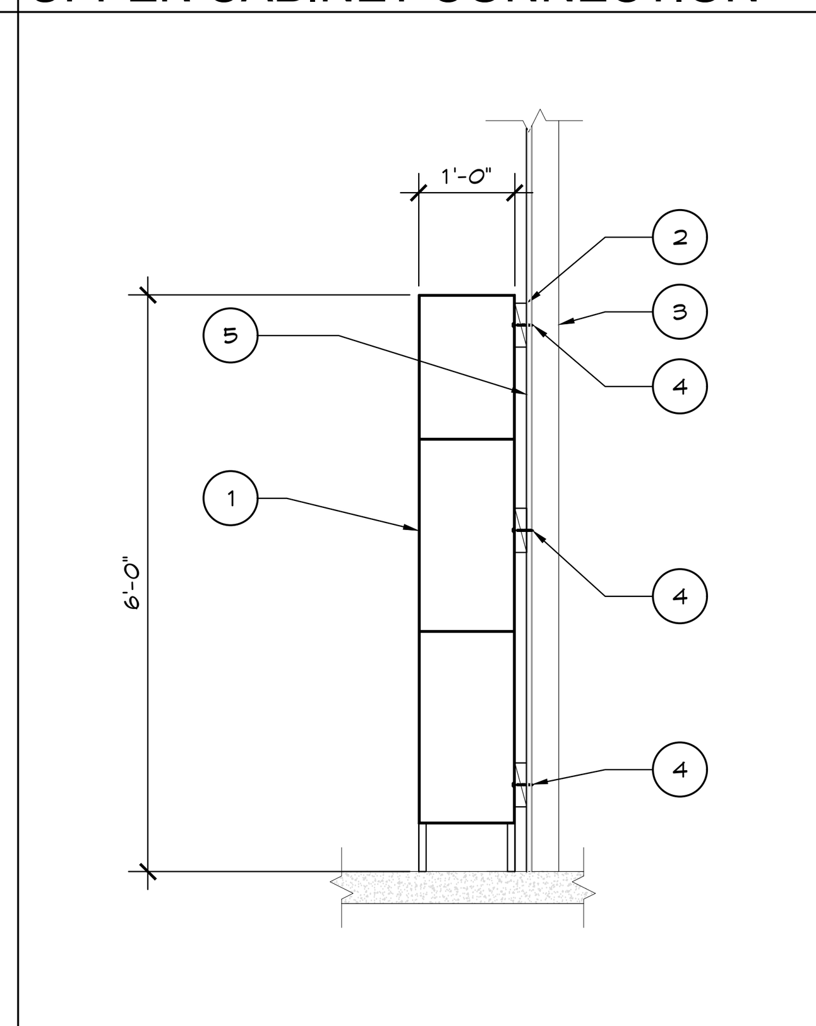
NOTE: ANCHOR SIZE AND SPACING AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS

PRESSED METAL DOOR HEAD & JAMB — SCALE: 3" = 1'-0" — 3



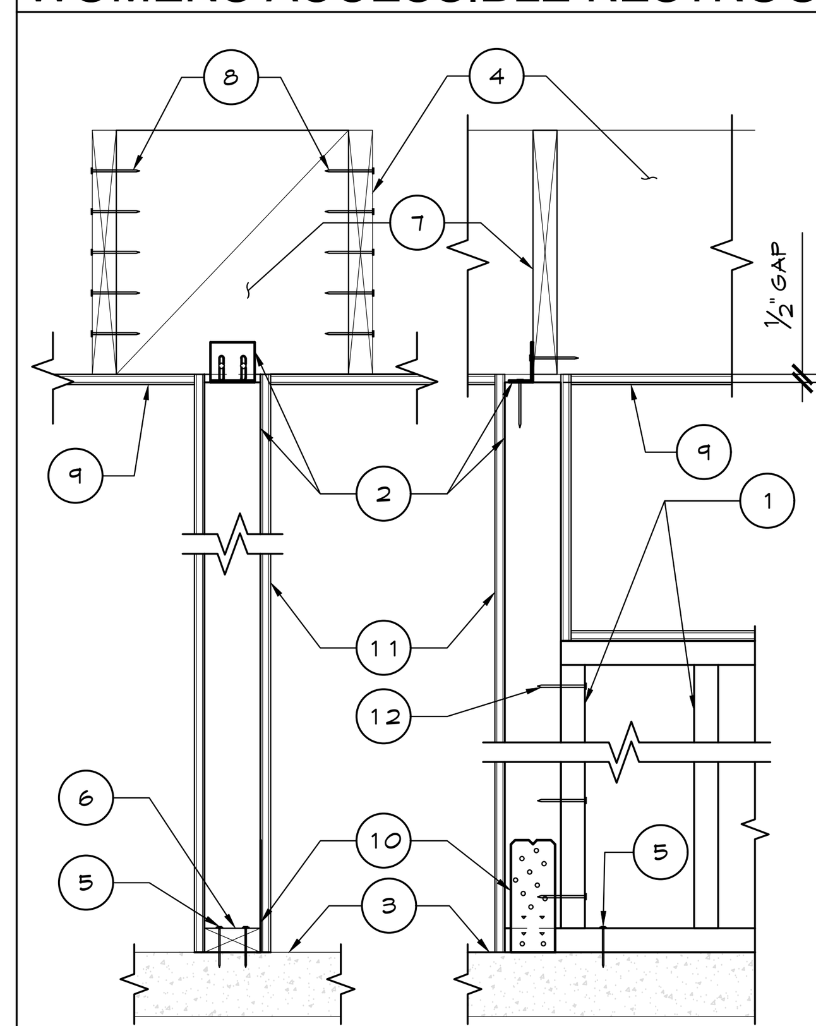
1. (E) CONC. SLAB
2. (N) CONC. SLAB; THICKNESS TO MATCH (E) SLAB
3. (E) AGGREGATE BASE
4. SAND @95% RELATIVE COMPACTION, TYP.
5. WATER LINE - CENTER IN TRENCH
6. SS LINE - CENTER IN TRENCH
7. PROVIDE #4 RE-BAR DOWEL EMBEDDED INTO CONC. 6" w/HILTI - RE 500 CD EPOXY ADHESIVE & PROVIDE MAX BAR OVERLAP IF (E) RE-BAR IS CUT OFF
8. FLUSH TRANSITION BETWEEN EXISTING AND NEW
9. NATIVE MATERIAL @95% COMPACTION, TYP.
10. WARNING TAPE MIN. 1'-0" ABOVE UTILITY PIPE, TYP.
11. "SAW CUT" AND MATCH (E) CONC. SLAB

TYP. TRENCH INFILL — SCALE: 1" = 1'-0" — 13



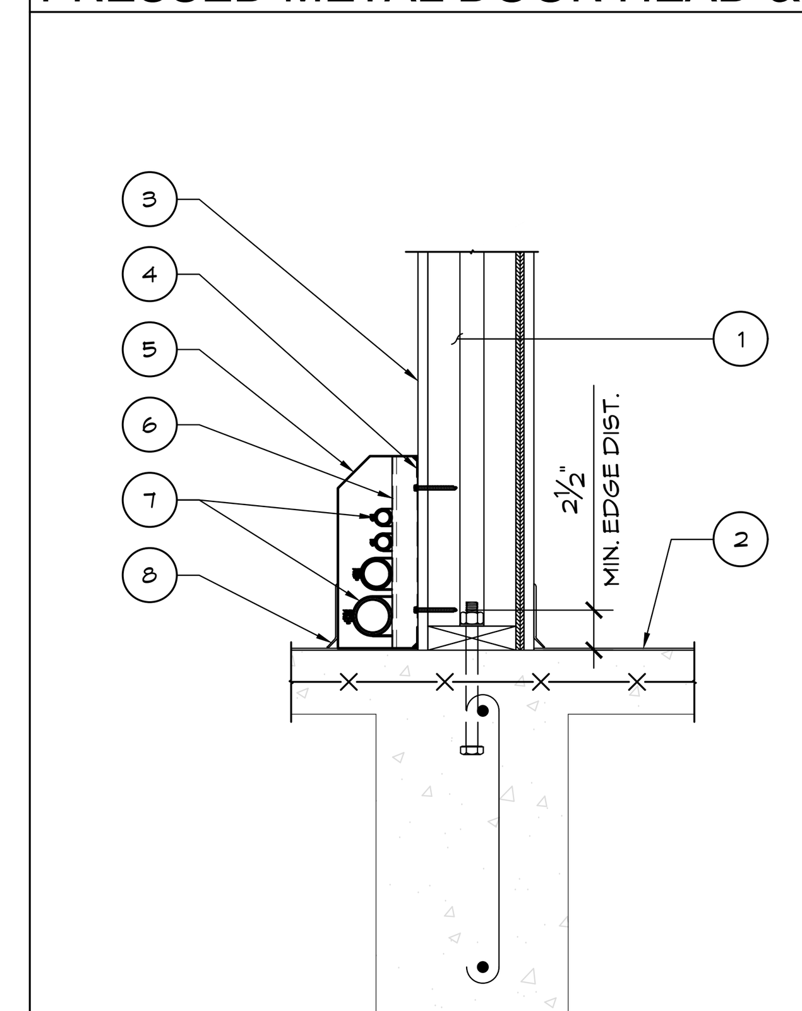
1. MTL. LOCKERS
2. 2x WOOD BLOCKING
3. (E) WOOD FRAMED WALL
4. #10 WOOD SCREWS @ 32" O.C. MAX. TO VERT. STUDS w/ 1½" MIN. EMBED.
5. (E) WALL FINISH

LOCKER ANCHORAGE — SCALE: 1/2"=1'-0" — 10



1. 2x6 STUD WALL @16" O.C. MAX. w/ (2) 16d EA. END & FINISH MATERIAL EACH SIDE
2. 4x4 WD. POST SUPPORTED BY 2x BLKG. w/ SIMPSON STRONG-TIE DTC CLIP ATTACHMENT AT EA. 2x BLKG. NAILED TO WD. POST & BLKG. w/ (2) 16d NAIL AT EA. BLK.; PROVIDE 1/2" MAX. GAP IN BETWEEN POST & 2x BLKG.
3. CONC. SLAB w/ FINISH FLOOR
4. (E) 2x BOTTOM JOIST
5. HILTI X-CP 72 PAF w/P8 S23 WASHERS @24" O.C., 8" MIN. FROM END OF EA. PTDF BOTTOM SILL PLATE PIECE. (OR 2 PER PIECE MIN.) (ESR - 2379)
6. 2x6 PTDF BOTTOM SILL PLATE
7. 2x WD. BLOCKING TO MATCH DEPTH OF (E) BOTTOM JOIST
8. (6) 16d EA. END
9. (E) GYP. BD. CEILING (REPLACE GYP. BD. IF NECESSARY)
10. SIMPSON STRONG-TIE DSP 18-GA. GALV. ATTACHMENT @ WD. POST & SILL PLATE
11. 5/8" GYP. BD.
12. 2x STUD TO POST w/ 16d @6" O.C. STAGGERED

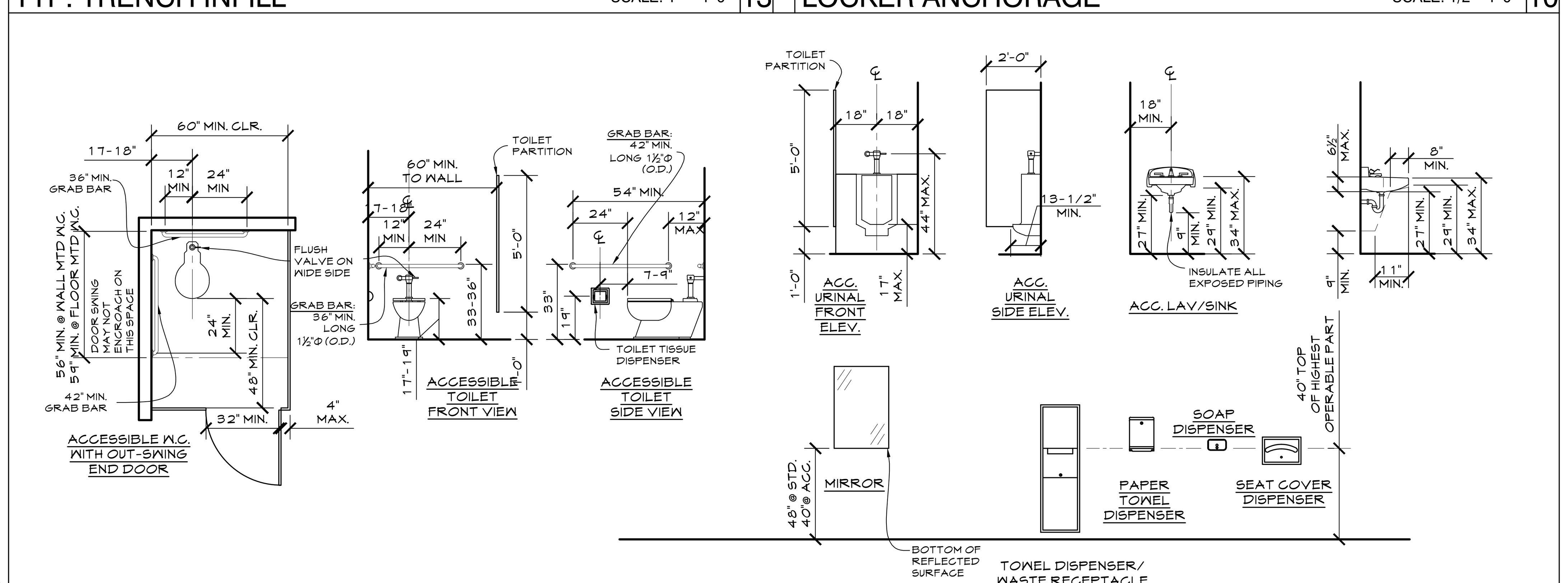
WOOD STUD WALL w/ POST — SCALE: 1" = 1'-0" — 6



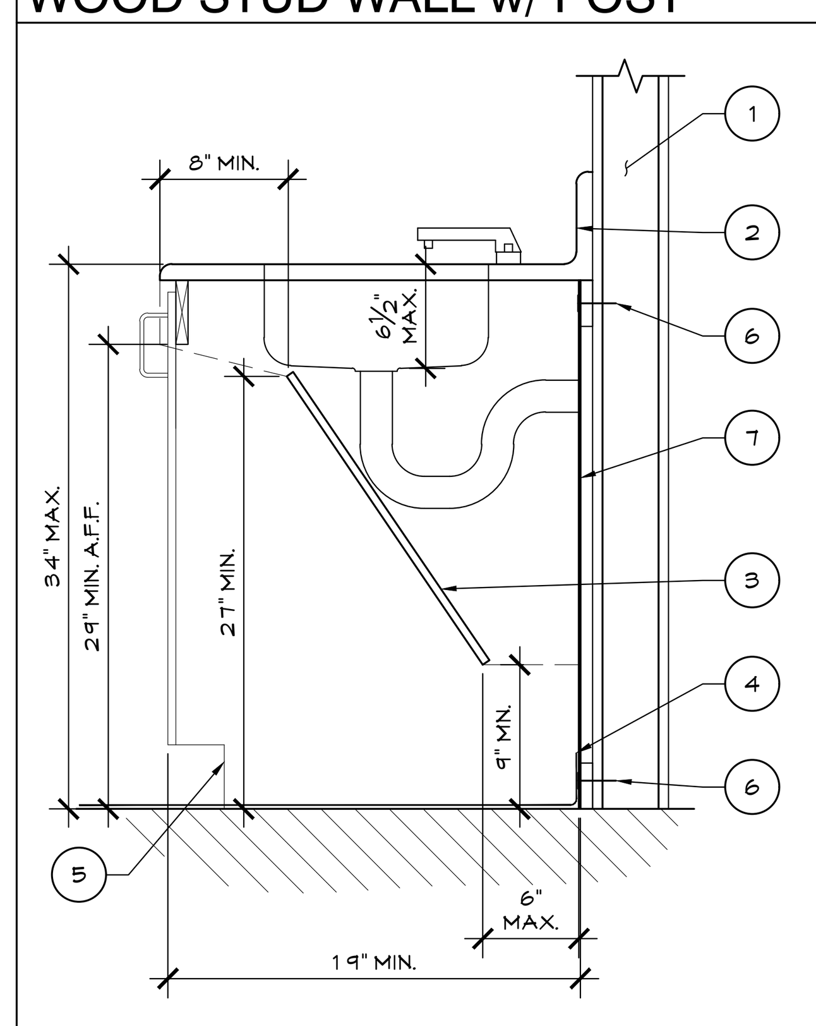
1. (E) STUD WALL w/ 2x4's STAGGERED @8" O.C.
2. (E) CONC. SLAB; SEE SCHED. FOR FLOOR FIN.
3. (E) INT. FIN.
4. CLIP SPACING PER MFR.
5. 16 GA. G.I. FABRICATED SHT. MTL. ENCLOSURE; SOFFI-STEEL SYSTEM BY JG INNOVATIONS OR APPROVED EQ.
6. UNISTRUT P1000 CONDUIT SUPPORT @48" O.C. - LENGTH AS REQ. UP TO 18" MAX.; ATTACH EA. SUPPORT W/ #12 WOOD SCREWS @12" O.C. W/ 1¼" MIN. EMBEDMEN TO (E) STUDS & 3" MAX. FROM ENDS
7. UTILITIES AS REQ. - SEE MECH. & ELEC. DWG's
8. WALL BASE & FLR. FIN. PER FIN. SCHED.

UTILITY CHASE 2022-11-30 JAR

UTILITY CHASE — SCALE: 1" = 1'-0" — 2

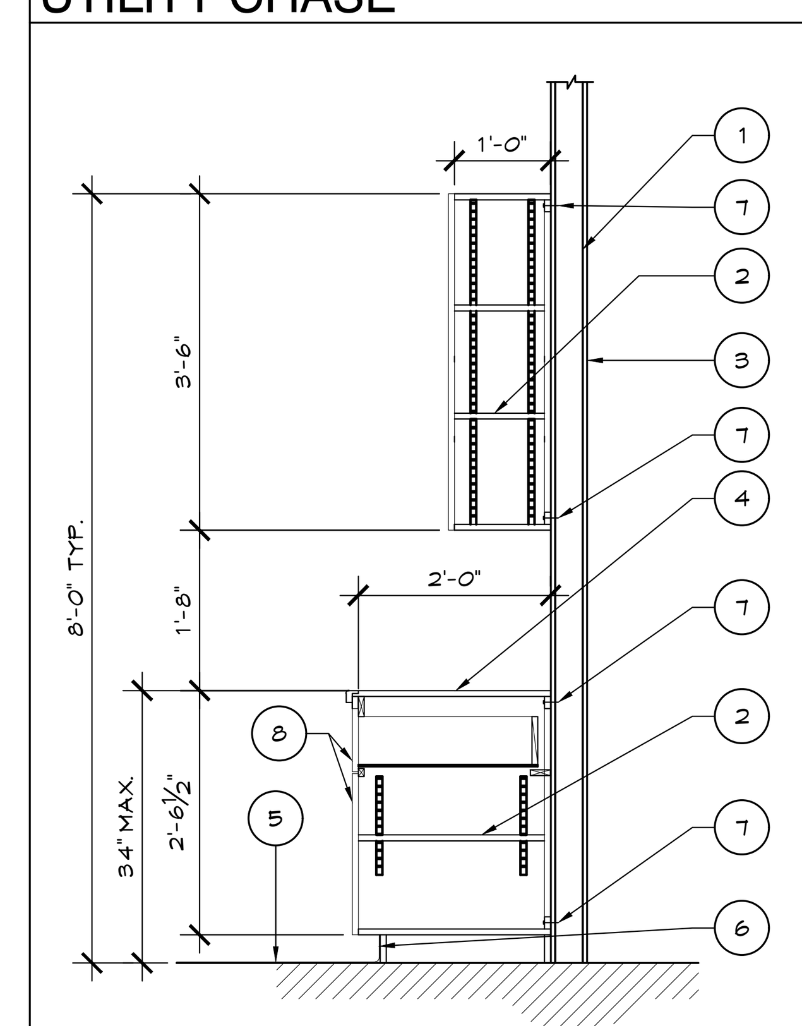


ACCESSIBLE MOUNTING HEIGHTS — 1/4" = 1'-0" — 9



1. 2x WD. FRAMED WALL
2. P. LAM. COUNTER TOP WITH 6" SPLASH
3. PROVIDE MATCHING P.LAM PANEL AT ACC. SINK
4. FLOOR FINISH & BASE - SEE FINISH SCHEDULE, TYP.
5. TOE KICK BEYOND
6. #10 WOOD SCREWS @ 32" O.C. MAX. TO VERT. STUDS w/ 1½" MIN. EMBED. MIN. (2) PER CABINET
7. 1/4" PLYWOOD BACK

ACCESSIBLE COUNTER @ SINK — SCALE: 1" = 1'-0" — 5



1. 2x WD. FRAMED
2. ADJUSTABLE SHELVES, TYP.
3. 2x WOOD STUD WALLS w/ GYP. BOARD EACH SIDE
4. PLASTIC LAMINATED COUNTER TOP
5. FLOOR FIN. - SEE FIN. SCHED. SHT. A2.0
6. BASE - SEE INTERIOR ELEV., TYP.
7. #10 WOOD SCREWS - SEE DTL. 11/A9.1
8. CABINET DOOR OR DRAWER - SEE INTERIOR ELEVATIONS

COUNTER & CABINET SECTION — SCALE: 1/2" = 1'=0" — 1

APPROVALS

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INSTITUTIONAL ▲ COMMERCIAL ▲ RESIDENTIAL ▲ INTERIORS ▲ CONSTRUCTION MANAGEMENT

SYNTHESIS PARTNERS, LLC
Managers · Architects

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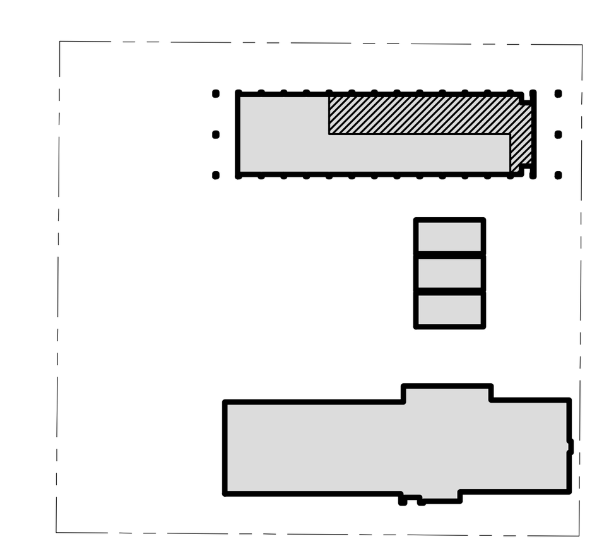
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
Woodland, CA 95695

KEY PLAN



THIS IS A PRELIMINARY SET FOR REVIEW ONLY NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE

INTERIOR DETAILS

DATE	2023-03-01
PROJECT NO.	21-W04-01

A9.1

GENERAL NOTES

DESIGN CRITERIA

1. CODE: 2022 CALIFORNIA BUILDING CODE (CBC)
2. DESIGN LIVE LOADS:

AREA	LIVE LOAD	REMARKS
ROOF		
A) FLAT TO < 4:12	Lr = 20 PSF	REDUCIBLE PER CODE
B) 4:12 TO ≤ 12:12	Lr = 12-20 PSF	REDUCIBLE PER CODE
FLOOR	L = 0 PSF	REDUCIBLE PER CODE

3. SNOW DESIGN PARAMETERS:

   N/A

4. WIND DESIGN PARAMETERS:

ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	Vult = 100 MPH
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	Vasd = 77 MPH
RISK CATEGORY	III
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	±0.18
ANALYSIS METHOD	DIRECTIONAL PROCEDURE

ROOF PRESSURE FOR COMPONENTS & CLADDING:

N/A

5. EARTHQUAKE DESIGN PARAMETERS:

4.1. SEISMIC IMPORTANCE FACTOR	Ie = 1.25
4.2. RISK CATEGORY	III
4.3. SOIL SITE CLASSIFICATION	'D'
4.4. SEISMIC DESIGN CATEGORY	'D'
4.5. MAPPED SPECTRAL RESPONSE ACCEL	
A) SHORT PERIOD	Ss = 1.011g
B) 1-SEC PERIOD	Si = 0.354g
5.6 DESIGN SPECTRAL RESPONSE ACCEL	
A) SHORT PERIOD	Sds = 0.809g
B) 1-SEC PERIOD	Sdi = 0.401g
5.7 SEISMIC FORCE RESISTING SYSTEM	WOOD SHEARWALLS
5.8 SEISMIC BASE SHEAR	V = N/A
5.9 SEISMIC RESPONSE COEFFICIENT	Cs = N/A
5.10 RESPONSE MODIFICATION FACTOR	R = 6.5
5.11 COMPONENT AMPLIFICATION FACTOR	
A) CONDENSER & HVAC	Ap = 2.5
5.12 COMPONENT RESPONSE MODIFICATION FACTOR	
A) CONDENSER & HVAC	Rp = 6.0
5.13 ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

DEMOLITION

1. SHORE OR BRACE TRUSSES, BEAMS COLUMNS, AND WALLS AS REQUIRED TO MAINTAIN THE STABLE INTEGRITY OF THE EXISTING STRUCTURE PRIOR TO DEMOLITION. IT IS THE CONTRUCTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE COMPETENT SHORING AND BRACING FOR ALL LOADS IMPOSED DURING AND AFTER DEMOLITION THROUGH COMPLETION OF NEW CONSTRUCTION.
2. ALL DIMENSIONS GIVEN TO AND OF THE EXISTING STRUCTURE ARE APPROXIMATE. VERIFY BY FIELD MEASUREMENTS THE DIMENSIONS OF THE EXISTING STRUCTURE. WHERE ACTUAL CONDITIONS DEVIATE FROM THE DETAILS SHOWN ON THE DRAWINGS, NOTIFY THE STRUCTURAL ENGINEER FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
3. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION SHALL BE MADE IN SUCH A MANNER AS TO AVOID OR MINIMIZE DAMAGE TO ADJACENT CONSTRUCTION.
4. EXTENT OF DEMOLITION IS TO BE AS INDICATED ON PLANS, SECTIONS AND DETAILS. DEMOLITION IS TO INCLUDE REMOVAL AND DISPOSAL CONSTRUCTION.

STRUCTURAL STEEL

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE AISC, AS CONTAINED IN THE "AISC 360-10 SPECIFICATIONS OF STRUCTURAL STEEL BUILDING" & THE "AISC MANUAL OF STEEL CONSTRUCTION ", 14TH EDITION AND CALIFORNIA BUILDING CODE LATEST EDITION.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS, U.O.N.:

SHAPES	
WIDE FLANGES (W, WT, S, M)	ASTM A992
CHANNEL (C), MISC CHANNEL (MC), ANGLES (L)	ASTM A36
HOLLOW STRUCTURAL STEEL (HSS)	ASTM A500, Gr. B
STEEL CIRCULAR PIPES (P)	ASTM A53, TYPE E OR S, GR. B
PLATES & BARS	
COLUMN BASE PLATES	ASTM A36
BRACE GUSSET PLATES	ASTM A36
BEAM SHEAR CONNECTION PLATES	ASTM A36
COLUMN CONTINUITY PLATES	ASTM A572. Gr. 50
BEAM STIFFENER PLATES	ASTM A36
DECK CLOSURE PLATES	ASTM A36
STAINLESS STEEL PLATES & BARS	ASTM A276
OTHER	ASTM A36
NUTS, BOLTS, RODS & WASHERS	
GENERAL BOLTS	ASTM A325-N
SLIP CRITICAL BOLTS (SEE NOTE #4 BELOW)	ASTM A325-SC
HIGH STRENGTH BOLTS	ASTM A325-N OR A490
MACHINE BOLTS (GENERAL USE)	ASTM A307
BENT & HEADED ANCHOR BOLTS	ASTM F1554,Gr.36,55,OR 105
PARTIAL & FULLY THREADED ANCHOR RODS	ASTM F1554,Gr.36,55,OR 105
FULLY THREADED RODS (GENERAL USE)	ASTM A36 (A307 Gr. A for ⅜" Ø)
WELDED SHEAR CONNECTORS	ASTM A108, Gr. 1015 thru 1020
WELDED TREADED STUDS	ASTM A108, Gr. 1015 thru 1020
NUTS FOR BOLTS & MACHINE BOLTS	ASTM A563
HARDENED WASHERS	ASTM F436
UNHARDENED WASHERS	ASTM F844
PLAIN WASHERS	ASTM B18.22.1
BEVELED WASHERS	ASTM B18.23.1

3. BOLTED CONNECTIONS SHALL CONSIST OF UNFINISHED BOLTS PER THE TABLE ABOVE UNLESS NOTED OTHERWISE. ANCHOR BOLTS CAST IN CONCRETE OR MASONRY SHALL BE HEADED BOLTS w/ CUT THREAD, FULL DIAMETER BODY STYLE CONFORMING TO ASTM F1554 U.N.O. UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE GRADE 55 PER SI SUPPLEMENTARY REQUIREMENTS. ALL BOLTED CONNECTIONS AND BASE PLATES SHALL HAVE STANDARD CUT WASHERS UNLESS NOTED OTHERWISE. WASHERS AT BASE SHALL BE PLACED AT TOP AND BOTTOM OF PLATE.
4. "SLIP"-CRITICAL BOLTED CONNECTIONS:
   A) "SLIP-CRITICAL" CONNECTIONS (A325-SC DESIGN VALUES w/ SPECIAL INSPECTION) ARE REQUIRED AT ALL BRACED FRAME CONNECTIONS, AT ALL CONNECTIONS ALONG CHORD LINES AND DRAG LINES (AS NOTED ON PLANS) AND U.N.O. AT ALL BOLTS IN OVERSIZED OR SLOTTED HOLES.
   B) THE SPECIAL INSPECTOR MUST BE PRESENT DURING INSTALLATION AND TIGHTENING OPERATION OF "SLIP-CRITICAL" CONNECTIONS.
5. ALL STRUCTURAL STEEL SHALL RECEIVE MINIMUM OF ONE SHOP COAT OF RED PRIMER w/ A MINIMUM DRY FILM THICKNESS OF 2.0 MILS. DO NOT SHOP PRIME OR PAINT AREAS TO BE FIELD WELDED, FIREPROOFED, GALVANIZED, TO RECEIVE SLIP-CRITICAL HIGH STRENGTH BOLTS, OR TO BE EMBEDDED IN CONCRETE. PRIOR TO PRIMING OR PAINTING, CLEAN STRUCTURAL STEEL & AS REQUIRED BY THE PRIMER & PAINT MANUFACTURER. PROVIDE ADDITIONAL PAINTING AS NOTED IN THE SPECIFICATIONS.
6. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. CONTRACTOR RESPONSIBLE FOR REVIEWING ALL BASE PLATE AND SUPPORT CONDITIONS DURING ERECTION AND BRACING AS REQUIRED. SEE AISC AND OSHA REQUIREMENTS.
7. PLACE NON-SHRINK GROUT UNDER ALL BASE PLATES BEFORE ADDING VERTICAL LOAD. SEE CONCRETE NOTES FOR NON-SHRINK GROUT REQUIREMENTS.
8. STRUCTURAL STEEL BELOW GRADE SHALL HAVE 3" MINIMUM OF CONCRETE COVER.
9. PROVIDE ½" Ø STITCH BOLTS AND RING FILLS, SPACE AT NOT MORE THAN 24" CC FOR ALL DOUBLE ANGLE MEMBERS.
10. AT WOOD TO STEEL PARALLEL CONTACT, ATTACH w/ ½"Ø WELDED THREADED STUDS AT MAXIMUM 32"CC. & 6" FROM ENDS OF WOOD MEMBER, TYPICAL UNLESS NOTED OTHERWISE.
11. HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER OF THE BOLTS PLUS 1/16". USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE OF THE SAME NOMINAL BOLT DIAMETER PLUS 3/16" UNLESS NOTED OTHERWISE.
12. WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE w/ AMERICAN WELDING SOCIETY STANDARDS, USING ONLY CERTIFIED WELDERS. ALL GROOVE WELDS SHALL HAVE COMPLETE PENETRATION UNLESS NOTED OTHERWISE. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. ALL WELDING TO BE DONE USING E70xx ELECTRODES. IN ADDITION, WELDING OF ASTM A572 GRADE 50 STEEL AND ASTM A992 STEEL SHALL BE DONE w/ ELECTRODES CAPABLE OF DEPOSITING WELD METAL w/ A MAXIMUM DIFFUSIBLE HYDROGEN CONTENT OF 16ml/100g (H16). WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
13. MINIMUM FILLET WELDS:
    3/16" @ t ≤ ½"
    ¼" @ t ≤ ¾"
    5/16" @ t > ¾"
14. WELDING PROCEDURES SPECIFICATONS (WPS) FOR SHOP AND FIELD PRE-QUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE PREPARED FOR REVIEW PRIOR TO FABRICATION. ALL WELDING PROCEDURES THAT MEET THERE REQUIREMENTS OF AWS D1.1 SEC. 5.1 SHALL BE CONSIDERED AS PRE-QUALIFIED. QUALIFICATION TESTING IS REQUIRED WHEN THE DEPTH OF A PARTIAL PENETRATION OR COMPLETE PENETRATION WELD IS 2" OR GREATER.
15. STRUCTURAL STEEL & FASTENERS THAT ARE PERMANENTLY EXPOSED TO WEATHER SHALL BE EITHER PRIMED AND PAINTED OR HOT DIPPED GALVANIZED IN ACCORDANCE w/ ASTM A780.
16. WHEN STRUCTURAL STEEL & CONNECTIONS WILL BE EXPOSED TO VIEW IN THE COMPLETED BUILDING, THEY SHALL BE FABRICATED, ERECTED & FINISHED IN COMPLIANCE w/ ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) GUIDELINES & SECTION 10 OF THE AISC 303-05 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

WOOD

1. ALL SAWN LUMBER SHALL BE DOUGLAS FIR-LARCH AS GRADED BY THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) IN ACCORDANCE w/ STANDARD GRADING RULES NO. 17 TYPICAL UNLESS NOTED OTHERWISE. ALL MEMBERS SHALL HAVE A MINIMUM GRADE OF NO. 1 EXCEPT 2x4 AND 2x6 WALL STUDS, PLATES, AND BLOCKING MAY BE NO. 2.
2. ALL STRUCTURAL SHEATHING USED FOR SHEARWALLS AND ROOF SHEATHING SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS1, DOC PS2 OR ANSI/APA PRP 210. EACH PANEL OR MEMBER SHALL BE IDENTIFIED FOR GRADE, BOND CLASSIFICATION, AND PERFORMANCE CATEGORY BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.
3. ALL FOUNDATION PLATES OR SILLS ON CONCRETE SLABS WHICH ARE IN DIRECT CONTACT w/ EARTH, AND PLATES OR SILLS ON CONCRETE OR MASONRY FOUNDATIONS, SHALL BE PRESSURE TREATED.
4. ALL WOOD SHALL HAVE A MOISTURE CONTENT OF NOT MORE THAN 19% WHEN SHEATHING IS APPLIED.
5. 8" MINIMUM CLEARANCE SHALL BE MAINTAINED AT ALL EXTERIOR WALLS BETWEEN FINISH GRADE AND BOTTOM OF WOOD WALLS.
6. BEARING AND SHEARWALLS SHALL HAVE DOUBLE TOP PLATES LAPPED AT WALL CORNERS AND INTERSECTIONS AND PLATES SHALL BE INTERNAILED w/ (3)-16d AT SUCH LOCATIONS. FOR PLATE SPLICE DETAILS, SEE DRAWINGS.
7. SILL PLATE ANCHOR BOLTS SHALL BE INSTALLED w/ PLATE WASHERS 3x3x0.229 BETWEEN NUT AND PLATE.
8. PROVIDE SOLID BLOCKING BETWEEN JOIST AND RAFTERS AT ALL SUPPORTS.
9. PROVIDE BLOCKING AT ALL CEILING LEVELS.
10. JOIST UNDER AND PARALLEL TO PARTITON SHALL BE DOUBLED AND NAILED TOGETHER.
11. HOLES FOR BOLTS IN WOOD SHALL BE BORED w/ A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
12. HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS:
    a. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
    b. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60% TO 70% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
13. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY BE USED TO LUBRICATE THE SCREWS.
14. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED w/ METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR IN WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS, RED HEAD, ETC.

BOLT DIAMETER	M1 WASHERS	STEEL WASHER
⅝" Ø	2 ¾" Øx5/16"	3"x3"x¼"
¾" Ø	3" Øx1/16"	3"x3"x5/16"
⅞" Ø	3 ½" Øx1/16"	3 ½"x3 ½"x⅜"
1" Ø	4" Øx½"	3 ¾"x3 ¾"x⅜"

15. ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED AT INSTALLATION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
16. LAY ALL STRUCTURAL SHEATHING ON ROOF AND FLOORS w/ FACE GRAIN PERPENDICULAR TO SUPPORT TYPICAL UNLESS OTHERNISE. USE PLY-CLIPS AT UNSUPPORTED SHEATHING EDGES.
17. CONNECTOR HARDWARE MODEL NUMBER ARE THOSE FOR SIMPSON STRONG-TIE COMPANY. ALL JOIST HANGERS SHALL BE SIMPSON U SERIES UNLESS NOTED OTHERWISE. EQUIVALENT CONNECTORS w/ ICC ACCEPTANCE MAY BE SUBMITTED FOR REVIEW AS AN ALTERNATE.
18. NOTIFY ARCHITECT AFTER WALL, FLOOR, AND ROOF SHEATHING NAILING HAS BEEN COMPLETED AND A MINIMUM OF 48 HOURS PRIOR TO CONCEALING SHEATHING.
19. FASTENERS, NUTS AND WASHERS IN CONTACT w/ SBX/DOT AND ZINC BORATE TREATED WOOD IN INTERIOR DRY CONDITIONS MAY BE CARBON STEEL. FASTENERS IN OTHER PRESERVATIVE-TREATED WOOD (ANCHOR BOLTS, NAILS, SCREWS) SHALL BE APPROVED SILICON BRONZE OR COPPER, STAINLESS STEEL OR HOT-DIPPED ZINC-COATED STEEL PER CBC 2304.9.5. U.O.N.

APPROVALS

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Yuba City, CA 95992-1900
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SYNTHESIS PARTNERS, LLC
Managers • Architects

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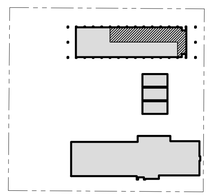
Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
Woodland, CA 95695

KEY PLAN



NORTH

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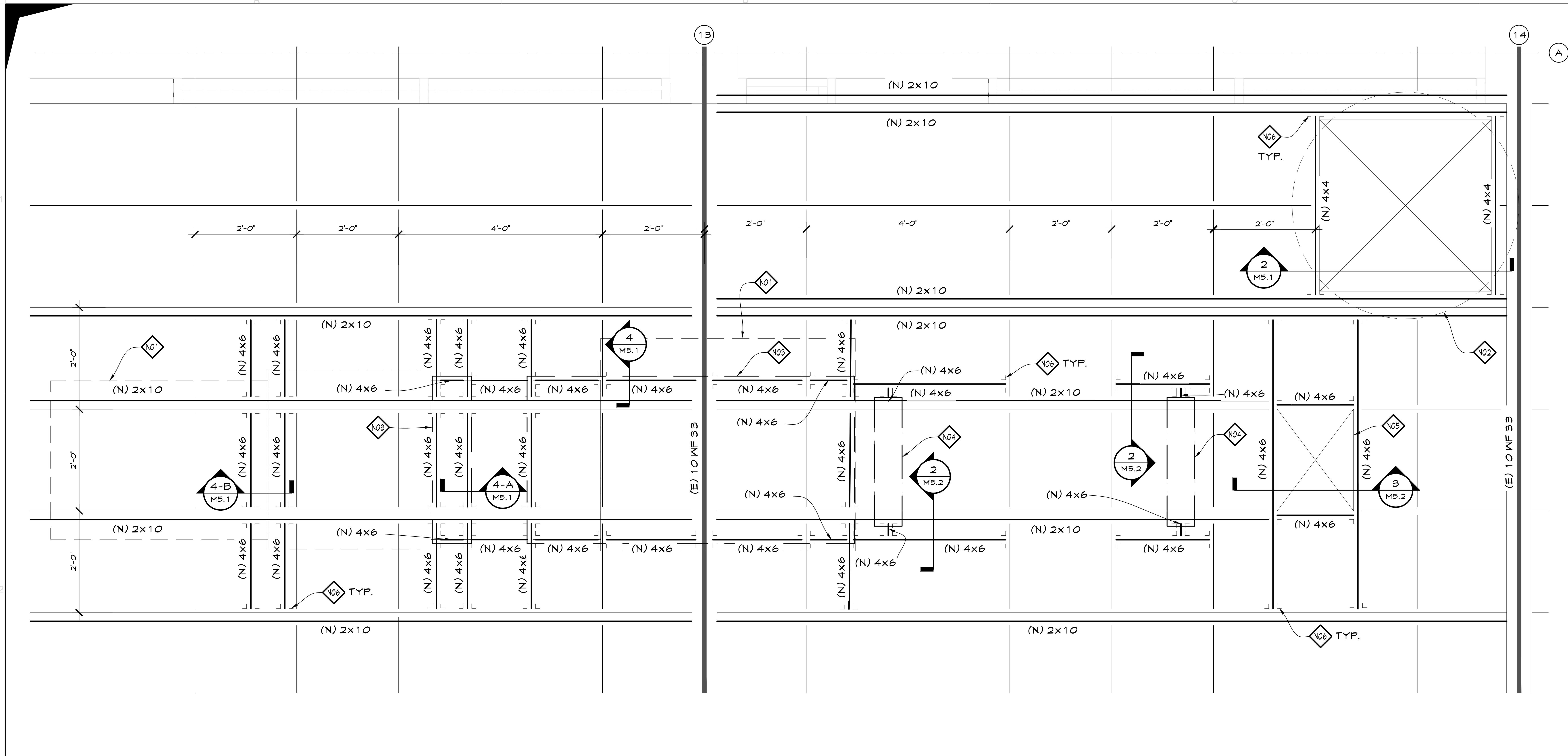
NO.	REVISION DESCRIPTION	DATE

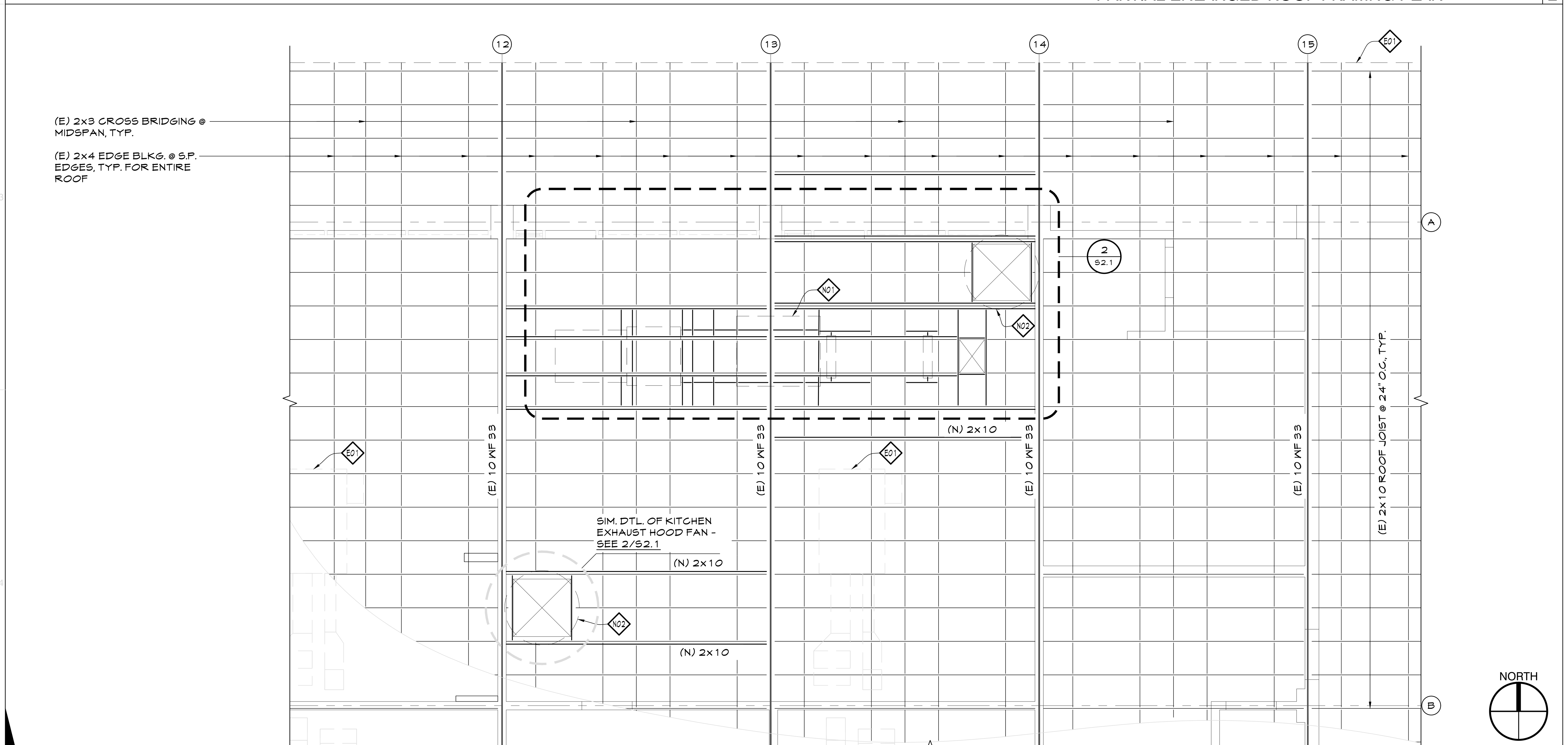
GENERAL NOTES

DATE	2023-03-01
PROJECT NO.	21-W04-01

S0.1



PARTIAL ENLARGED ROOF FRAMNG PLAN SCALE: 3/4" = 1'-0" 2



PARTIAL ROOF FRAMNG PLAN SCALE: 1/4" = 1'-0" 1

KEYNOTES

EXISTING

E01 (2) 2x10 FACIA

E02 AC EQUIPMENT ON ROOF

NEW / ALTERATION

N01 MAKE UP AIR UNIT - SEE MECH. DWGs.

N02 KITCHEN EXHAUST HOOD FAN - SEE MECH. DWGs.

N03 ROOF CURB - SEE MECH. DWGs.

N04 DUCT SUPPORT - SEE MECH. DWGs.

N05 DUCT THRU ROOF - SEE MECH. DWGs.

N06 A35 EA. SIDE END OF BLKG., TYP.

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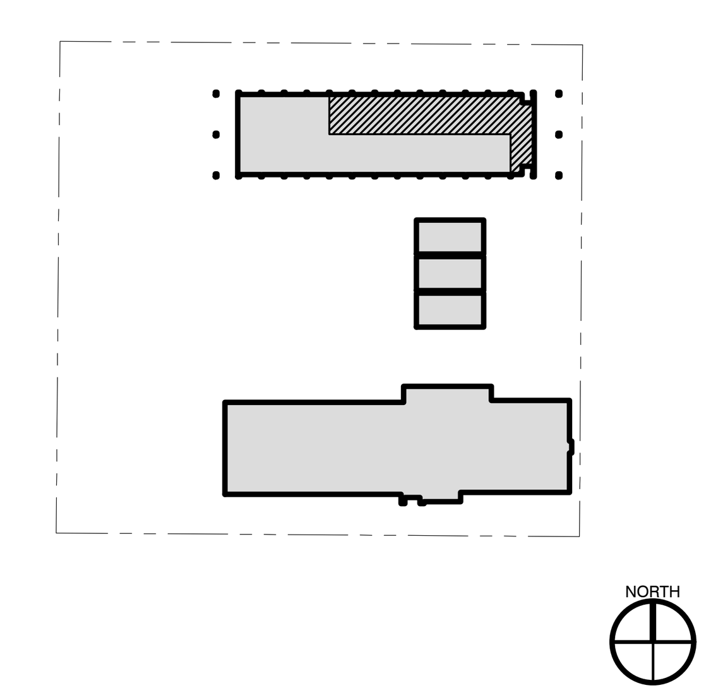

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NO.	REVISION DESCRIPTION	DATE

PARTIAL ROOF FRAMING PLANS

S2.1

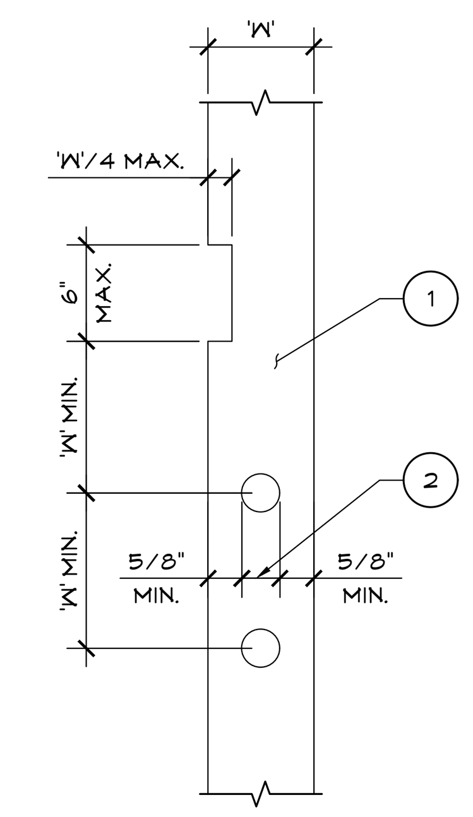
DATE 2023-03-01

PROJECT NO. 21-W04-01

NOT USED SCALE: NONE 16

NOT USED SCALE: NONE 12

NOT USED SCALE: NONE 8



1. NO NOTCHES IN MIDDLE ½ OF SPAN
2. 'W'/3 MAX. FOR SINGLE STUDS, 2'W'/3 MAX. IF THE STUD IS DOUBLE & NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLE STUDS ARE SO BORED

NOTES:

HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD.

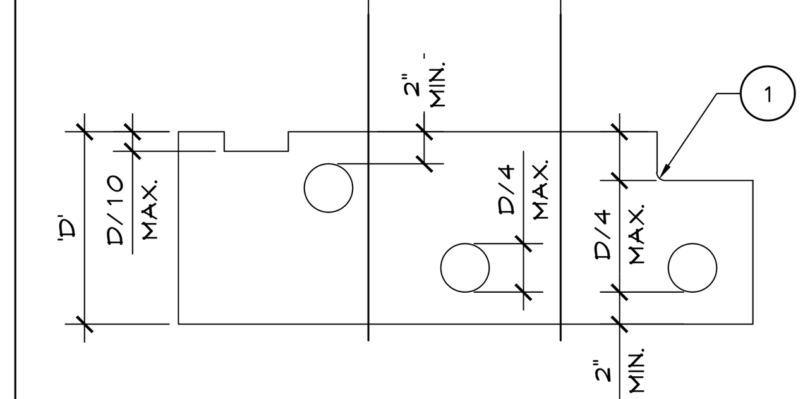
NOTCHES AND HOLES IN STUDS 2022-12-06 EB

NOTCHES AND HOLES IN STUDS
SCALE: 1" = 1'-0" 4

NOT USED SCALE: NONE 15

NOT USED SCALE: NONE 11

NOT USED SCALE: NONE 7



1. ½" RADIUS

NOTES:

1. PREDRILL CORNERS OF NOTCHES SO AS NOT TO OVER CUT.

2. NOTCHES ON THE END OF JOISTS & HEADERS SHALL NOT EXCEED ¼ OF THE JOIST DEPTH.

3. NOTCHES IN THE TOP OF JOIST SHALL NOT EXCEED 1/10 OF THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN.

4. NOTCHES ON THE BOTTOM OF JOIST ALLOWED ONLY WHERE SPECIFICALLY SHOWN ON DRAWINGS.

5. HOLES BORED IN JOIST SHALL NOT BE WITHIN 2" OF THE TOP OR BOTTOM AND SHALL NOT HAVE A DIAMETER LARGER THAN ¼ OF THE DEPTH OF THE JOIST.

NOTCHES AND HOLES 2022-12-06 EB

NOTCHES AND HOLES IN JOISTS
SCALE: 1" = 1'-0" 3

NOT USED SCALE: NONE 14

NOT USED SCALE: NONE 10

NOTE:

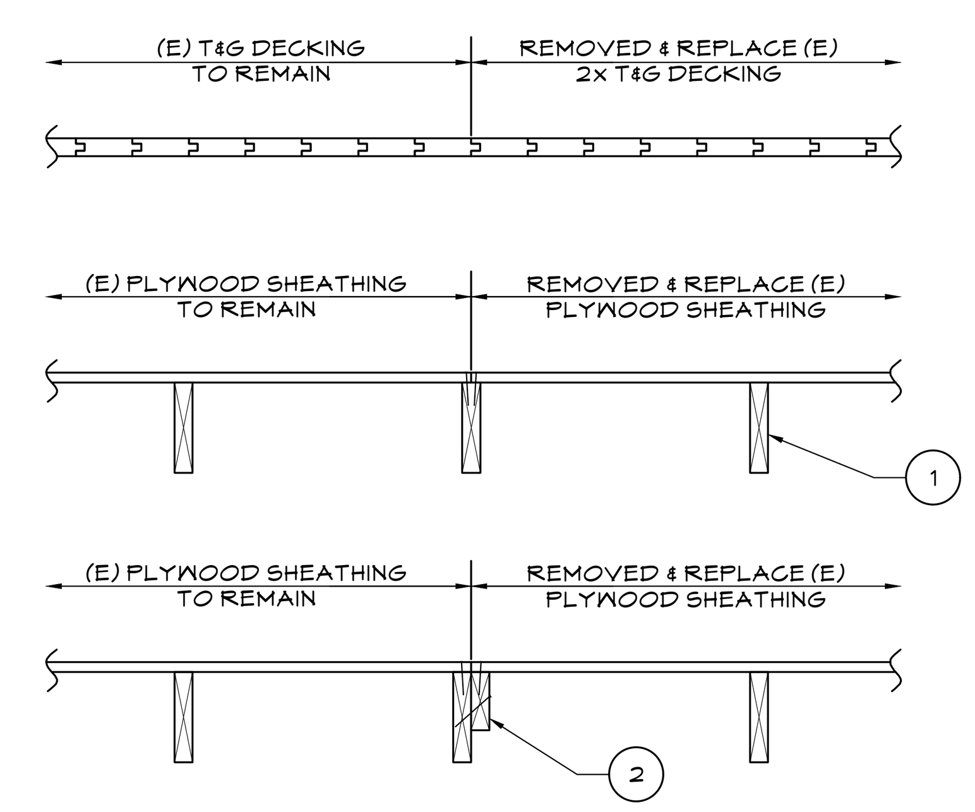
1. EXPOSE (E) FRAMING FOR STRUCTURAL INSPECTION OR DRY ROT CONDITIONS. CONTRACTOR SHALL NOT PROCEED W/ REPAIRS UNTIL APPROVAL IS RECEIVED FROM ARCHITECT & DSA/ BUILDING DEPARTMENT.

2. REPLACE (E) DECKING AND SHEATHING AS SHOWN ON ARCH DRAWINGS AND WHERE DRY ROT CONDITIONS ARE DISCOVERED IN THE FIELD. REMOVE (E) MATERIAL WITHOUT CUTTING OR OTHERWISE DAMAGING (E) RAFTERS.

3. NAIL T&G DECKING AS FOLLOWS: NAIL 2x6 BOARDS W/ 2-16d EACH BEARING. NAIL 2x8 BOARDS W/ 3-16d EACH BEARING.

4. REPLACE (E) PLYWOOD SHEATHING AS SHOWN ON ARCH DRAWINGS AND WHERE DRY ROT SCORED SHEATHING OR OTHER DAMAGE IS DISCOVERED IN THE FIELD.

5. (N) PLYWOOD SHALL MATCH (E) IN GRADE, THICKNESS AND NAILING. MINIMUM REQUIREMENTS ARE 15/32" 5 PLY CD-X PLYWOOD W/ 8d @ 6" CC AT PANEL EDGES, AND 8d @ 12" CC IN FIELD.



1. (E) ROOF JOIST
2. (N) ROOF JOIST/ BLKG.

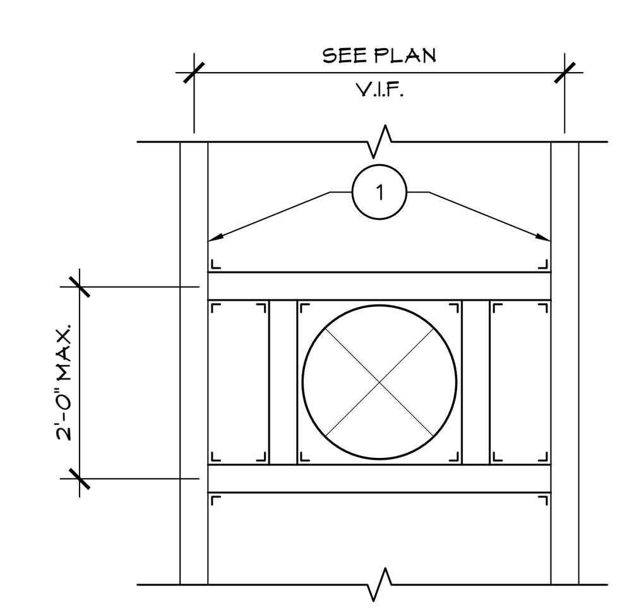
05B-TYP. REPLACEMENT OF DECKING & SHEATHING

TYPICAL REPLACEMENT OF DECKING & SHEATHING
SCALE: 1/2" = 1'-0" 2

NOT USED SCALE: NONE 13

NOT USED SCALE: NONE 9

NOT USED SCALE: NONE 5



1. (E) ROOF JOIST/ BLKG.
2. MIN. 4x6 EA. SIDE OF (N) OPENING W/ A35 EA. END.
3. (N) OPENING PER MECH. DWGs.

05B-TYP. SMALL OPENING

TYPICAL SMALL OPENING
SCALE: 1/2" = 1'-0" 1

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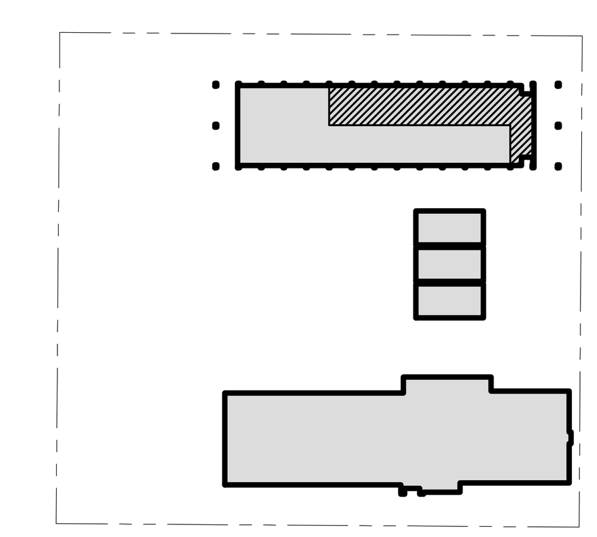

NORTH

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LICENSED ARCHITECT MICHAEL ... 7-31-25 C-19752 STATE OF CALIFORNIA

NO.	REVISION DESCRIPTION	DATE

DETAILS & NOTES

DATE	2023-03-01
PROJECT NO.	21-W04-01

S2.2

ANCHORAGE / BRACING NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONTRACT DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 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 CONNECTION 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 COMPONET IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
4. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

PIPING AND DUCTWORK SYSTEM BRACING NOTE:
PIPING AND DUCTWORK SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

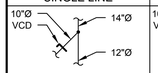
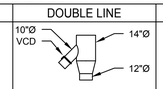
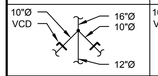
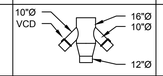
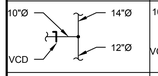
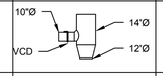
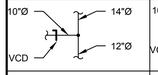
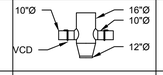
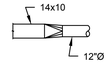
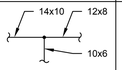
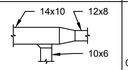
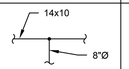
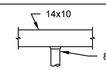
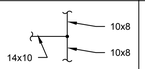
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD),

_ MP _ MD - OPTION 1:
DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTED AND DETAILS.

X MP X MD - OPTION 2:
SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#), MASON OPM-0043-13 SEISMIC RESTRAINT SYSTEMS GUIDELINE.

DUCTWORK LEGEND

GENERAL DUCTWORK NOTES

SINGLE LINE	DOUBLE LINE	NOTES / DESCRIPTION
		45° BRANCH REDUCING LATERAL LOW LOSS
		45° REDUCING LATERAL CROSS LOW LOSS
		90° TEE LOW LOSS
		90° TEE CROSS LOW LOSS
		SQUARE TO ROUND
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKEOFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:4
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE THROAT SIZED FOR EQUAL PRESSURE DROP
		VOLUME CONTROL DAMPER

DUCTWORK SYMBOLS

	FLEXIBLE DUCTWORK
	DUCT (FIRST FIGURE SIDE SHOWN, SECOND FIGURE SIDE NOT SHOWN)
	LINED DUCT (FIRST FIGURE SIDE SHOWN, SECOND FIGURE SIDE NOT SHOWN)
	EXHAUST AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	SUPPLY AIR DUCT SECTION
	DROP IN DIRECTION OF ARROW
	RISE IN DIRECTION OF ARROW
	TURNING VANES

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

1. CALIFORNIA ADMINISTRATIVE CODE, 2022
2. CALIFORNIA BUILDING CODE, 2019
3. CALIFORNIA MECHANICAL CODE, 2019
4. CALIFORNIA PLUMBING CODE, 2019
5. CALIFORNIA FIRE CODE, 2019
6. CALIFORNIA ELECTRICAL CODE, 2019
7. CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2019

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

MECHANICAL LEGEND

ABBREVIATIONS

ABC	ABOVE FINISHED CEILING	FLR	FLOOR	OBD	OPPOSED BLADE DAMPER
AC	AIR CONDITIONING	FPM	FEET PER MINUTE	OC	ON CENTER
ACU	AIR CONDITIONING UNIT	FS	FLOW SWITCH	PC	PUMPED CONDENSATE
AD	ACCESS DOOR	FSD	FIRE SMOKE DAMPER	PD	PRESSURE DROP
AFF	ABOVE FINISHED FLOOR	FT	FEET	PF	PRE FILTER
AFC	ABOVE FINISHED CEILING	GA	GAUGE	PH	PHASE
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR	PLBG	PLUMBING
AP	ACCESS PANEL	GALV	GALVANIZED	POC	POINT OF CONNECTION
APD	AIR PRESSURE DROP	GSM	GALVANIZED SHEET METAL	POD	POINT OF DISCONNECTION
AVV	AUTOMATIC AIR VENT	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE
ARCH	ARCHITECT	GPM	GALLONS PER MINUTE	PS	PRESSURE SWITCH
BAS	BUILDING AUTOMATION SYSTEM	GV	GATE VALVE	PSI	POUNDS PER SQUARE INCH
BDD	BACK DRAFT DAMPER	HC	HEATING COIL	PSIG	POUNDS PER SQUARE INCH GAUGE
BF	BELOW FLOOR	HP	HORSEPOWER	R	RISER
BHP	BRAKE HORSEPOWER	HPR	HIGH PRESSURE CONDENSATE RETURN	RA	RETURN AIR
BOD	BOTTOM OF DUCT	HPS	HIGH PRESSURE STEAM, ABOVE 60 PSIG	RAD	RETURN AIR DAMPER
BOP	BOTTOM OF PIPE	HR	HOUR	RD	REFRIDGERANT DISCHARGE
BTUH	BRITISH THERMAL UNIT PER HOUR	HRP	HEAT RECOVERY PUMP	RF	RELIEF FAN
BV	BUTTERFLY VALVE	HRR	HEAT RECOVERY RETURN	RH	RELATIVE HUMIDITY
CA	COMPRESSED AIR	HRS	HEAT RECOVERY SUPPLY	RHC	REHEAT COIL
CAP	CAPACITY	HVAC	HEATING VENTILATING & AIR CONDITIONING	RL	REFRIDGERANT LIQUID
CAV	CONSTANT AIR VOLUME	HWP	HEATING WATER PUMP	RLA	RUNNING LOAD AMPS
CC	CENTER TO CENTER	HWR	HEATING WATER RETURN	RM	ROOM
CD	CONDENSATE DRAIN	HWS	HEATING WATER SUPPLY	RPM	REVOLUTIONS PER MINUTE
CEF	CEILING EXHAUST FAN	HXR	HEAT EXCHANGER	RS	REFRIDGERANT SUCTION
CFM	CUBIC FEET PER MINUTE	ID	INSIDE DIAMETER	RTS	REFER TO SPECIFICATIONS
CHWP	CHILLED WATER PUMP	IN WC	INCHES OF WATER COLUMN	SA	SUPPLY AIR
CHWR	CHILLED WATER RETURN	KW	KILOWATTS	SCD	SECONDARY CONDENSATE DRAIN
CHWS	CHILLED WATER SUPPLY	KWH	KILOWATT HOUR	SCH	SCHEDULE
CO2	CARBON DIOXIDE	KRH	KITCHEN RANGE HOOD	SCR	STEAM CONDENSATE RETURN
CU	CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE	SF	SUPPLY FAN
CV	CONTROL VALVE	LBS	POUNDS	SHT	SHEET
CWP	CONDENSING WATER PUMP	LDB	LEAVING DRY BULB	SHWP	SECONDARY HEATING WATER PUMP
CWR	CONDENSING WATER RETURN	LWB	LEAVING WET BULB	SM	SHEET METAL
CWS	CONDENSING WATER SUPPLY	LP	LOW PRESSURE	SMS	SHEET METAL SCREW
D	DROP	LPR	LOW PRESSURE CONDENSATE RETURN	SP	STATIC PRESSURE
DB	DRY BULB TEMPERATURE	LPS	LOW PRESSURE STEAM, 5-15 PSIG	SPD	STATIC PRESSURE DROP
DET	DETAIL	LWT	LEAVING WATER TEMPERATURES	SQFT	SQUARE FEET
DIA	DIAMETER	LRA	LOCKED ROTOR AMPS	SQIN	SQUARE INCHES
DIS	DEIONIZED (PURE) STEAM	MAV	MANUAL AIR VENT	SS	STAINLESS STEEL
DN	DOWN	MAX	MAXIMUM	TA	TO ABOVE
DSD	DUCT SMOKE DETECTER	MBH	1,000 BRITISH THERMAL UNITS PER HOUR	TB	TO BELOW
DTR	DUCT THRU ROOF	MC	MECHANICAL CONTRACTOR	TCV	TEMPERATURE CONTROL VALVE
DWG	DRAWING	MCC	MOTOR CONTROL CENTER	TG	TRANSFER GRILLE
(E)	EXISTING	MD	MANUEL DAMPER	TH	THERMOMETER
(ER)	EXISTING RELOCATED	MFR	MANUFACTURER	TSP	TOTAL STATIC PRESSURE
EA	EXHAUST AIR	MIN	MINIMUM	TSTAT	THERMOSTAT
EAD	EXHAUST AIR DAMPER	MISC	MISCELLANEOUS	TYP	TYPICAL
EAT	ENTERING AIR TEMPERATURE	MPR	MEDIUM PRESSURE CONDENSATE RETURN	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	(N)	NEW	UG	UNDER GROUND
ELEC	ELECTRICAL	NC	NORMALLY CLOSED	UF	UNDER FLOOR
ESP	EXTERNAL STATIC PRESSURE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	V	VOLTS
ET	EXPANSION TANK	NIC	NOT IN CONTRACT	VAV	VARIABLE AIR VOLUME
EWT	ENTERING WATER TEMPERATURE	NO	NORMALLY OPEN	VD	VOLUME DAMPER
°F	DEGREES FAHRENHEIT	NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
FA	FROM ABOVE	NA	NOT APPLICABLE	VLV	VALVE
FB	FROM BELOW	OA	OUTSIDE AIR	WB	WET BULB
FC	FLEXIBLE CONNECTION	OAD	OUTSIDE AIR DAMPER	WPD	WATER PRESSURE DROP
FCU	FAN COIL UNIT			WMS	WIRE MESH SCREEN
FD	FIRE DAMPER			W/	WITH
FF	FINAL FILTER			W/O	WITHOUT
FFU	FAN/FILTER UNIT			WT	WEIGHT
FLA	FULL LOAD AMPS			$	ON/OFF SWTCH/STARTER

SYMBOLS

CHWS	CHILLED WATER SUPPLY		BALL VALVE
CHWR	CHILLED WATER RETURN		BALANCE VALVE
CWS	CONDENSER WATER SUPPLY		BUTTERFLY VALVE
CWR	CONDENSER WATER RETURN		CHECK VALVE
HWS	HEATING HOT WATER SUPPLY		LEVER HANDLE GAS COCK
HWR	HEATING HOT WATER RETURN		PRESSURE REDUCING VALVE
RL	REFRIGERANT LIQUID LINE PIPING		SOLENOID VALVE W/ MOTOR ACTUATOR
RS	REFRIGERANT SUCTION LINE PIPING		STRAINER
	FLOW IN DIRECTION OF ARROW		PRESSURE GAUGE
	REDUCER		THERMOMETER
	OUTSIDE AIR INTO LOUVER		UNION
	RETURN OR EXHAUST AIR INTO REGISTER		VALVE BOX
	SUPPLY AIR FROM REGISTER		CAP (END OF PIPE)
	SUPPLY AIR GRILLE ID $\frac{SIZE}{CFM}$		CIRCULATING PUMP
	RETURN AIR GRILLE ID $\frac{SIZE}{CFM}$		ANGLE VALVE
	EXHAUST AIR GRILLE ID $\frac{SIZE}{CFM}$		PRESSURE OR TEMP. RELIEF VALVE
		Ø	DIAMETER
		T	ROOM THERMOSTAT (TOP OF STAT 48" AFF)
	ITEM TO BE REMOVED / DEMOED		POINT OF CONNECTION
	ITEM TO BE ABANDONED IN PLACE		POINT OF DISCONNECTION
		ROOM NAME --	ROOM NAME AND NUMBER

APPROVALS

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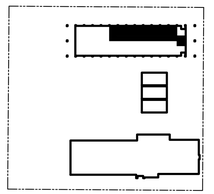
KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
No. M31220
RENEWAL DATE: 12/31/2023
MECHANICAL
STATE OF CALIFORNIA

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NO.	REVISION DESCRIPTION	DATE

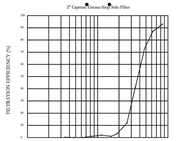
MECHANICAL LEGENDS & NOTES

DATE	2022-07-24
PROJECT NO.	21-W04-01

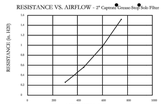
M0.1

CAPTRATE SOLO FILTERS

FILTER COLLECTION EFFICIENCY
2" Captrate® Grease-Stop® Solo Filter



RESISTANCE VS. AIRFLOW - 2" Captrate® Grease-Stop® Solo Filter



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS CONSTRUCTED OF 430 STAINLESS STEEL, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNELICS.

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

***GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

FILTER INFORMATION – CAPTRATE® GREASE-STOP® SOLO

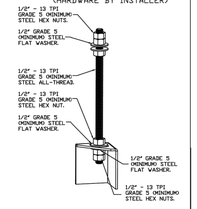
NOMINAL SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (POUNDS)	VELOCITY (FEET PER MINUTE)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.28	11	100	0.25
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.78	8.9	125	0.35
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.78	9.1	150	0.45
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.39	7.4	175	0.70
12 x 20	11-5/8" x 19-5/8" x 1-7/8"	1.03	6.8	200	0.90
12 x 16	11-5/8" x 15-5/8" x 1-7/8"	0.76	5.6	225	1.00
10 x 20	9-5/8" x 19-5/8" x 1-7/8"	1.00	5.6	250	1.30
10 x 16	9-5/8" x 15-5/8" x 1-7/8"	0.78	4.6	275	1.50

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF
- ETL Listed
- CALIFORNIA MECHANICAL CODE
- INTERNATIONAL MECHANICAL CODE

BUILDING CODES

HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 CHROMIUMO ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 CHROMIUMO STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 CHROMIUMO HEX NUTS AS SHOWN. MUST USE SCUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ND-2 HANGING ANGLE DETAIL

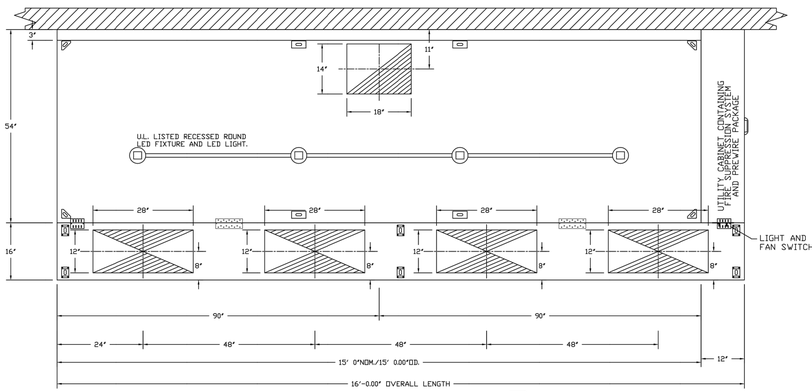
HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS

FOR WALL CANOPIES

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM SIDES (24" High Hood)
ND-2 (-WI) Exhaust only	4.125"	2.25"	2.25"
VHB (-B)	2.25"	2.25"	2.25"

ALL OTHER HOOD MODELS CONTACT CAPTIVE AIRE FOR HANGING ANGLE LOCATIONS

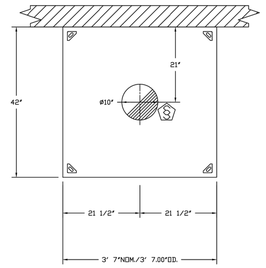
HANGING ANGLE LOCATIONS



PLAN VIEW – HOOD #1 (H-1)
15' 0.00" LONG 5424ND-2-PSP-F

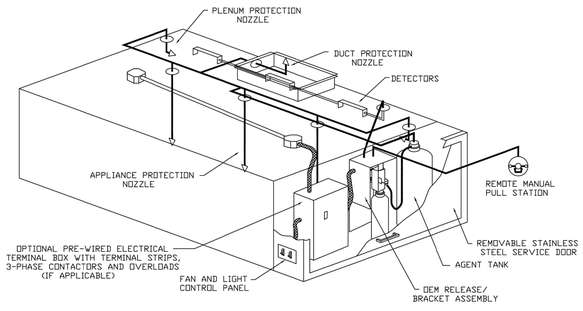
H 1

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



PLAN VIEW – HOOD #2 (H-2)
3' 7.00" LONG 4224VHB-G

H 2



TYPICAL ANSUL R-102 SYSTEM LAYOUT

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H-1	FIELD WRAPPER 17.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 192.00" LONG 430 SS VERTICAL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	RISER(S) LENG	RISER(S) DIA	RISER(S) CFM	RISER(S) SP
1	H-1	Front	192"	16"	6"	MUA	12"	28"		746	0.209"
						MUA	12"	28"		746	0.209"
						MUA	12"	28"		746	0.209"
						MUA	12"	28"		746	0.209"

HOOD INFORMATION – JOB#5668675

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	H-1	5424 ND-2-PSP-F	CAPTIVEAIRE	15' 0"	600 DEG	I	HEAVY	240	3600	14"	18"	4"		3600	2057	-1.272"	2985	430 SS WHERE EXPOSED	ALONE	ALONE
2	H-2	4224 VHB-G	CAPTIVEAIRE	3' 7"	700 DEG	II	N/A	150	538			4"	10"	538	986	-0.073"	0	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	FILTER(S) QTY	FILTER(S) HEIGHT	FILTER(S) LENGTH	FILTER(S) EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	LIGHT(S) TYPE	LIGHT(S) WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	H-1	CAPTRATE SOLO FILTER	11	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12"x54"x24"	ANSUL R-102	3.0	DCV-1111	1 LIGHT 1 FAN	YES	978 LBS
2	H-2						0									NO	136 LBS

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

REVISIONS

	DESCRIPTION	DATE
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2		
3		
4		

CAPTIVE-AIRE

Northern California Office
1110 Burnett Ave, Suite G, Concord, CA, 94520 PHONE: (925) 962-1999 FAX: (925) 566-8565 EMAIL: reg92@captiveaire.com
www.captiveaire.com

Woodland Culinary Classroom
575 Hays Street,
Woodland, CA, 95695

DATE: 11/18/2022

DWG.#: 5668675

DRAWN BY:

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

APPROVALS

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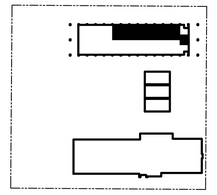

NORTH

REGISTERED PROFESSIONAL ENGINEER DAVID A. WESTON No. M31220 MECHANICAL STATE OF CALIFORNIA RENEWAL DATE: 12/31/2023

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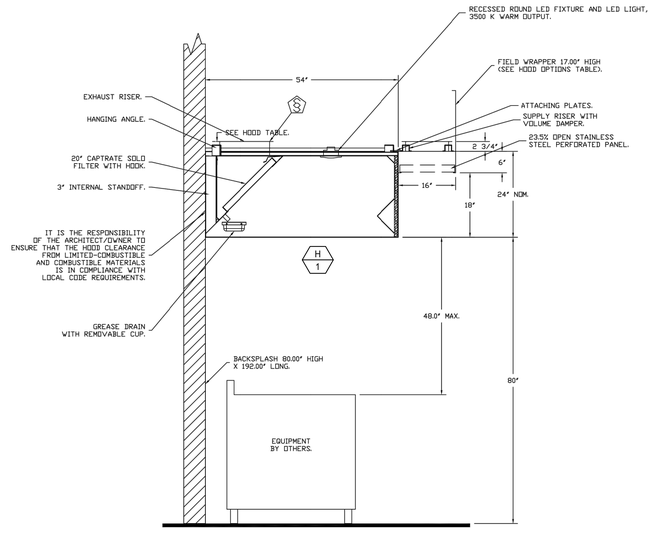
NO.	REVISION DESCRIPTION	DATE

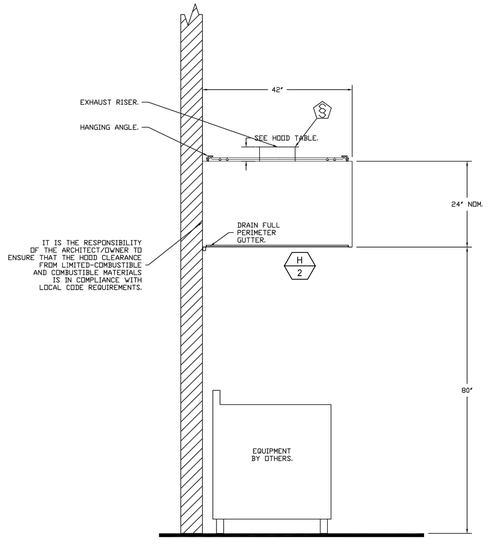
MECHANICAL SCHEDLES & NOTES

DATE	2022-07-24
PROJECT NO.	21-W04-01

M0.2



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1 (H-1)



SECTION VIEW – MODEL 4224VHB-C
HOOD – #2 (H-2)

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--For more information or questions Contact--
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REVISIONS

	DESCRIPTION	DATE
1		
2		
3		
4		

CAPTIVE-AIRE

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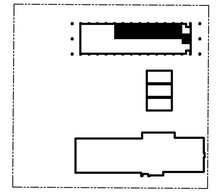

REGISTERED PROFESSIONAL ENGINEER
DAVID T. A. WESTON
No. M31220
RENEWAL DATE: 12/31/2023
MECHANICAL
STATE OF CALIFORNIA

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M0.3

EXHAUST FAN INFORMATION – JOB#5668675

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU240HFA	CAPTIVEAIRE	3600	1.500	867	ODP,PREMIUM	3.000	1.8240	3	208	10.2	818 FPM	304	14.6
2	KEF-2	1	DU12HFA	CAPTIVEAIRE	538	0.250	1454	TEAO-ECM	0.250	0.0920	1	115	2.9	382 FPM	58	8.6

MUA FAN INFORMATION – JOB#5668675

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (Gal/Hr)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SONES
3	MAU-1	1	A2-1BT-200-20D	20MF-2-MOD	A2-1BT-200	1300	3240	0.500	1527	ODP,PREMIUM	3.000	2.1160	3	208	9.5	11.9A	20A	4.63	98.0°F	70.0°F	78.0°F	70.0°F	1295	14.6

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU-1	189293	153327	41°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	81

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	2 YEAR PARTS WARRANTY
2	KEF-2	1	GREASE BOX
		1	ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –MSC– (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	STANDARD ELECTRICAL CONNECTION (MAIN AND CONTROL PANEL) FOR STANDING POWER – SINGLE MODULE. IF A NON-DCV PREWIRE IS USED ON THE IBT HEATER, THE #20, #47, 'NS', 'MA', OR 'EZ' PREWIRE OPTION MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-1 HOUSING – MEETS AMCA CLASS 1A RATING
		1	IBT/MUA EVAP INTERLOCK
		1	FREEZE PROTECTION DRAIN KIT FOR IBT/MUA WITH EVAPORATIVE COOLERS
		1	IBT SIZE 1 & 2 SIDE DISCHARGE
		1	2 YEAR ENTIRE UNIT PARTS WARRANTY, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY

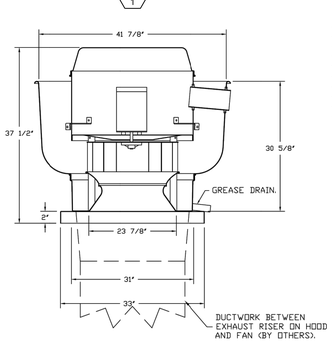
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						
3	MAU-1				YES		YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	KEF-2	29 LBS	CURB	17.500"W X 17.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	MAU-1	117 LBS	CURB	31.000"W X 79.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
	# 3			RAIL	6.000"W X 31.000"L X 20.000"H RIGHT.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H RIGHT.

FAN #1: DU240HFA – EXHAUST FAN (KEF-1) KEF 1



FEATURES:

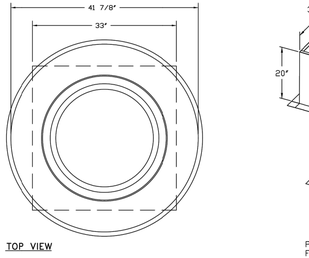
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

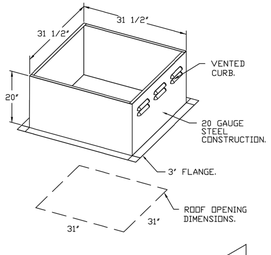
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

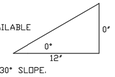
- GREASE BOX.
- 2 YEAR PARTS WARRANTY.



TOP VIEW

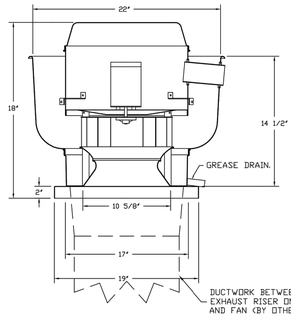


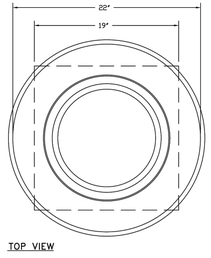
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

FAN #2 DU12HFA – EXHAUST FAN (KEF-2) KEF 2





TOP VIEW

FEATURES:

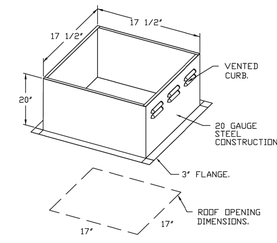
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –MSC– (TELCO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

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Northern California Office

Woodland Culinary Classroom
575 Hays Street,
Woodland, CA, 95695

DATE: 11/18/2022
DWG.#: 5668675
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SCALE: 3/4" = 1'-0"
MASTER DRAWING

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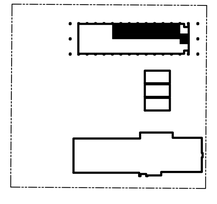
KEY PLAN



NORTH

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FOR PLAN REVIEW ONLY NOT FOR CONSTRUCTION
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NO.	REVISION DESCRIPTION	DATE

MECHANICAL SCHEDLES & NOTES

DATE	2022-07-24
PROJECT NO.	21-W04-01

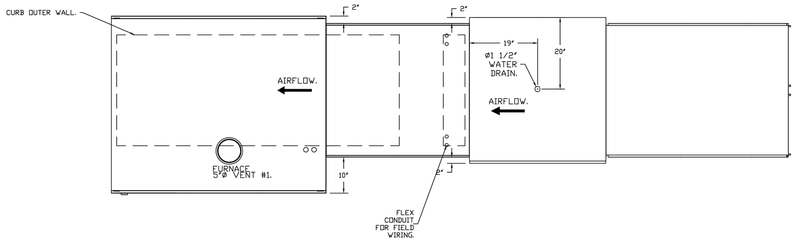
M0.4

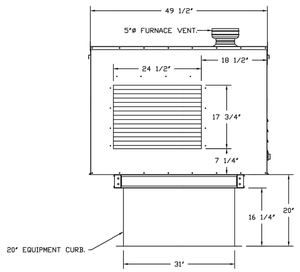
FAN #3 A2-IBT-200-20D - HEATER (MAU-1)
1. INDIRECT BENT TUBE GAS FIRED HEATER WITH 20" MIXED FLOW DIRECT DRIVE FAN. 1 FURNACE, ELECTRONIC FULL MODULATION, CONSTANT 80% EFFICIENCY, AND 6:1 MAX TURNDOWN FOR NG, (5:1 MAX TURNDOWN FOR LP). STAINLESS STEEL BURNER AND HEAT EXCHANGER.
2. EVAP COOLER CLPD CELDEK) -W/INTAKE HOOD W/EZ FILTERS.
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, 0 TO +10 INCHES WC, 2.5" DIAMETER, 1/8" THREAD SIZE, REAR THREAD.
6. SEPARATE 120V ELECTRICAL CONNECTION FOR ALL IBT HEATERS WITH 1 MODULE FOR STANDING POWER. 120V MUST BE RUN BY ELECTRICIAN FROM BUILDING PANEL TO MUA SWITCH.
7. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
8. LAYER CONTROL FOR IBT EVAP.
9. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE #316G064 (SHIPPED LOOSE), PRESSURE SWITCH INSTALLED UPSTREAM OF EWAY SOLENOID IN UNIT, BRASS TEE AND 2 NPT HALF INCH NIPPLES. FIELD WIRING REQUIRED BY OTHERS FOR 3-WAY VALVE. FOR BOTH CELDEK AND STANDARD V-BANK TYPE CONFIGURATIONS.
10. USED WITH SIZE 1 AND SIZE 2 SIDE DISCHARGE IBT MODULES.
11. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/EVAP SECTION).
12. 2 YEAR ENTIRE UNIT PARTS WARRANTY, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY
IBT - US PATENT 877119 B2.

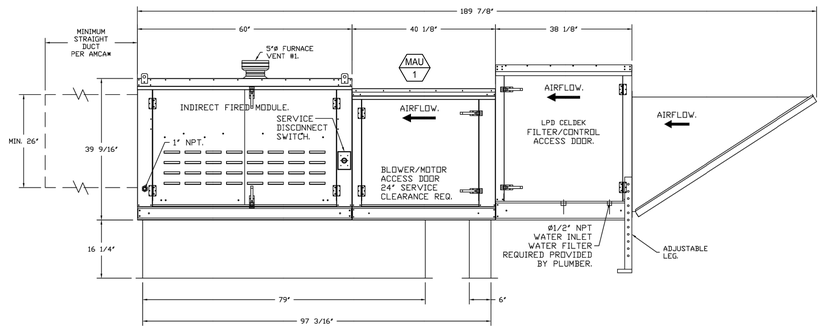
#NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATIION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 26" x 26".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 34°F. TEMP. RISE = 41°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 153705.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 189759.
OUTPUT BTUs AT ALTITUDE OF 68 FT. = 153327.
INPUT BTUs AT ALTITUDe OF 68 FT. = 189293.







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Woodland Culinary Classroom
575 Hays Street,
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DATE: 11/18/2022
DWG.#: 5668675
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SCALE: 3/4" = 1'-0"
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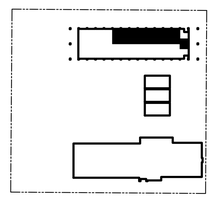

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MECHANICAL SCHEDLES & NOTES

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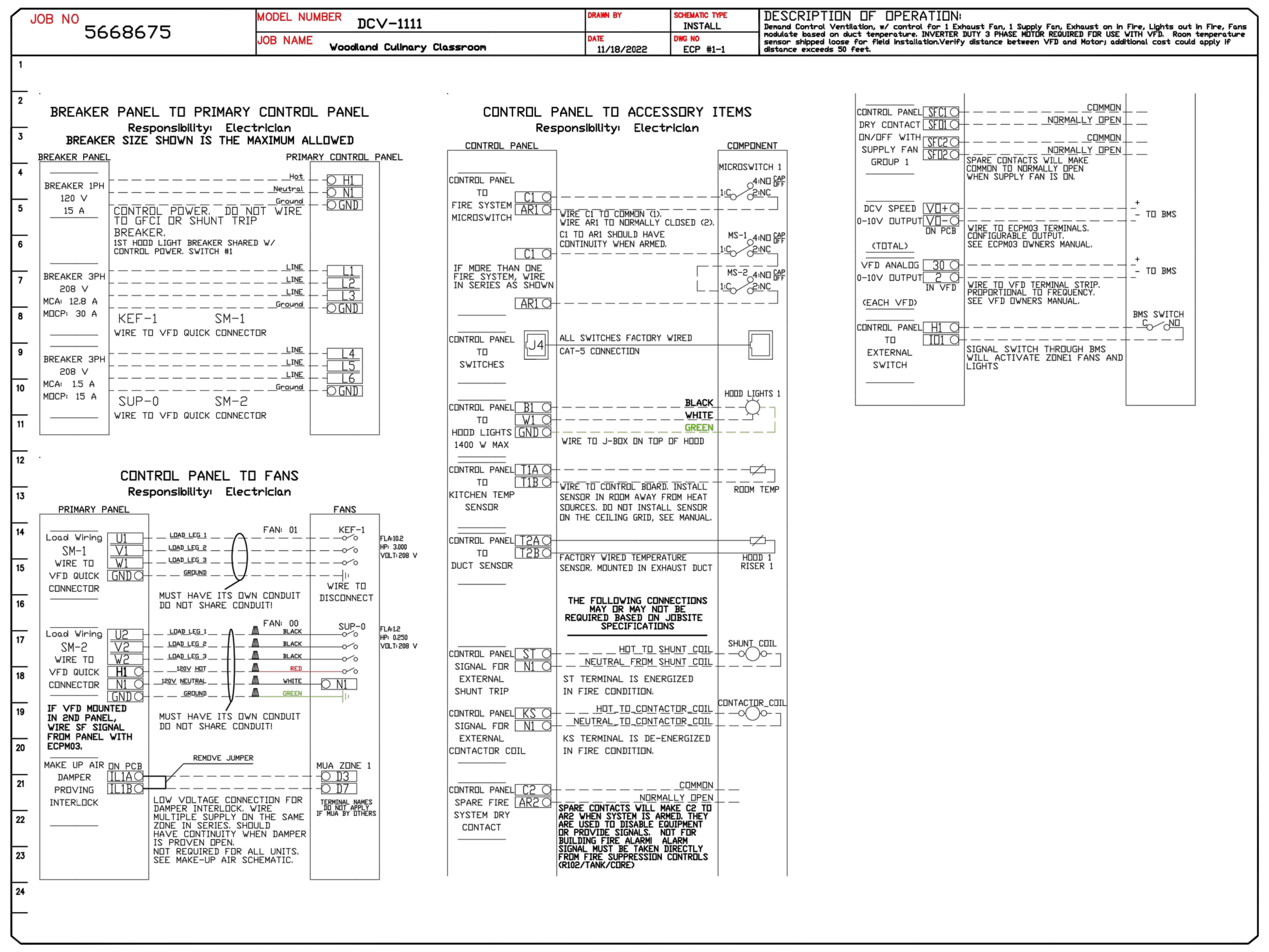
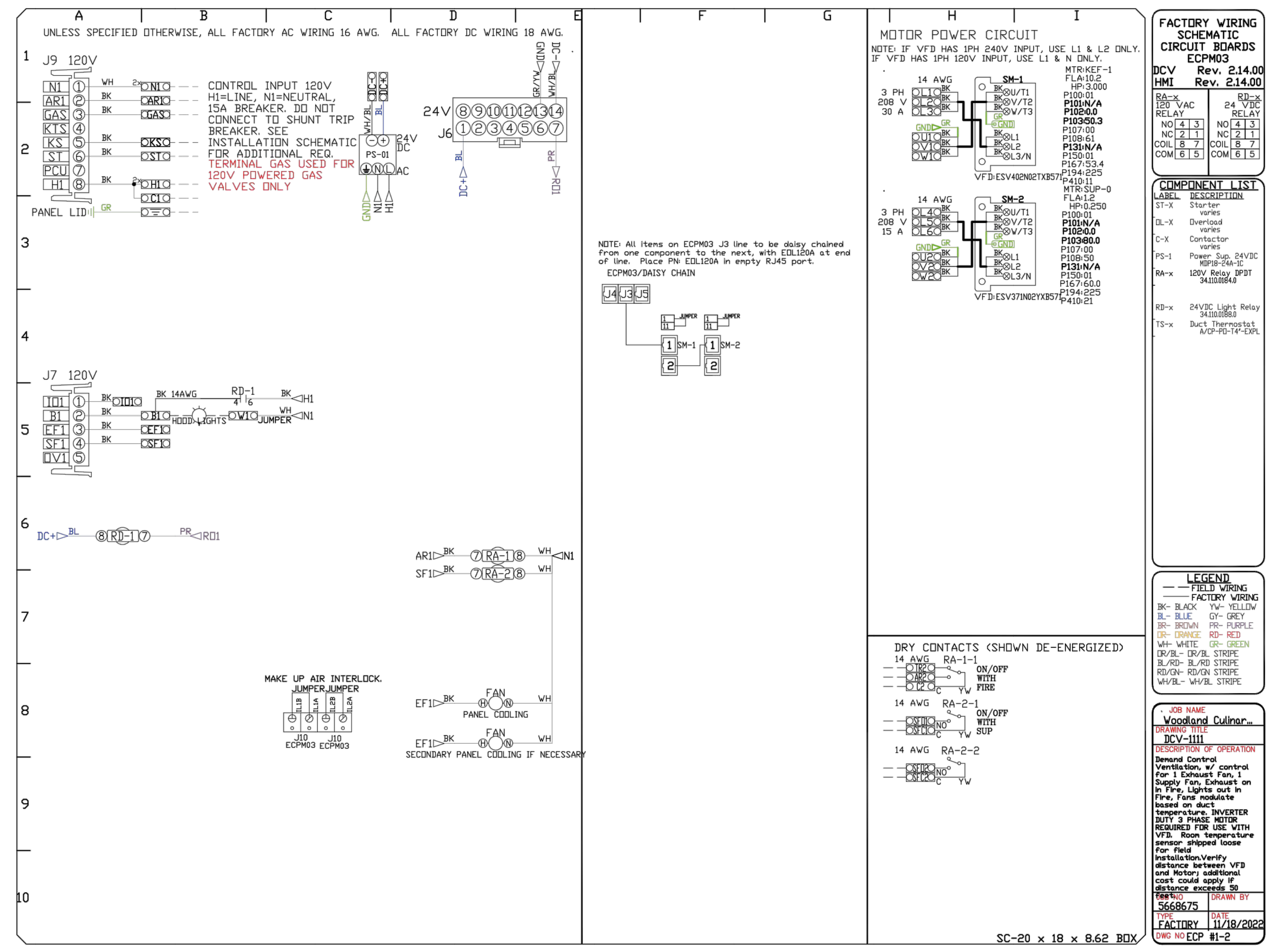
PROJECT NO.	21-W04-01

M0.5

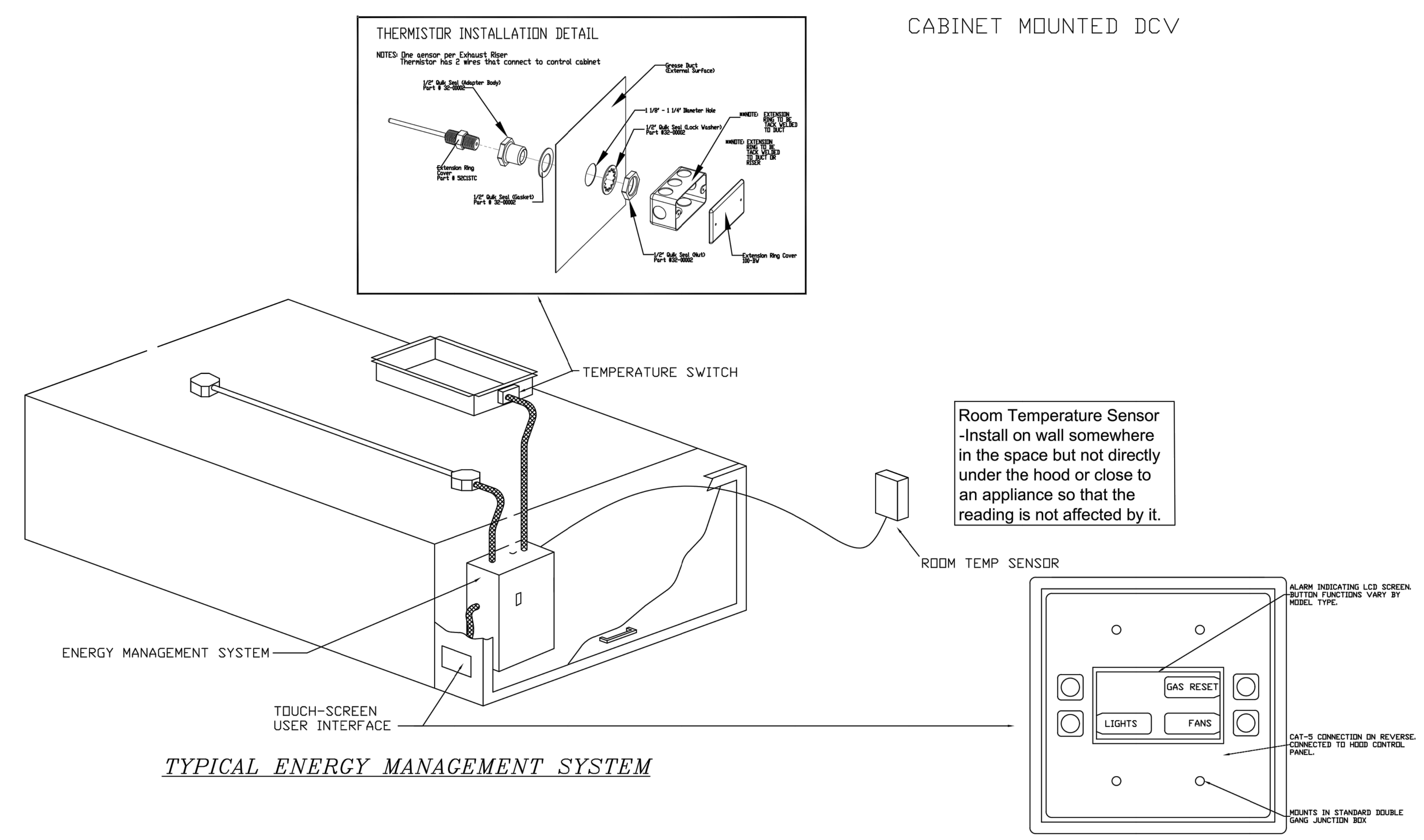
ELECTRICAL PACKAGE – JOB#5668675

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	3.000	208	10.2
				HOOD # 1	1 FAN			SUPPLY	3	0.250	208	1.2





CABINET MOUNTED DCV



TYPICAL ENERGY MANAGEMENT SYSTEM

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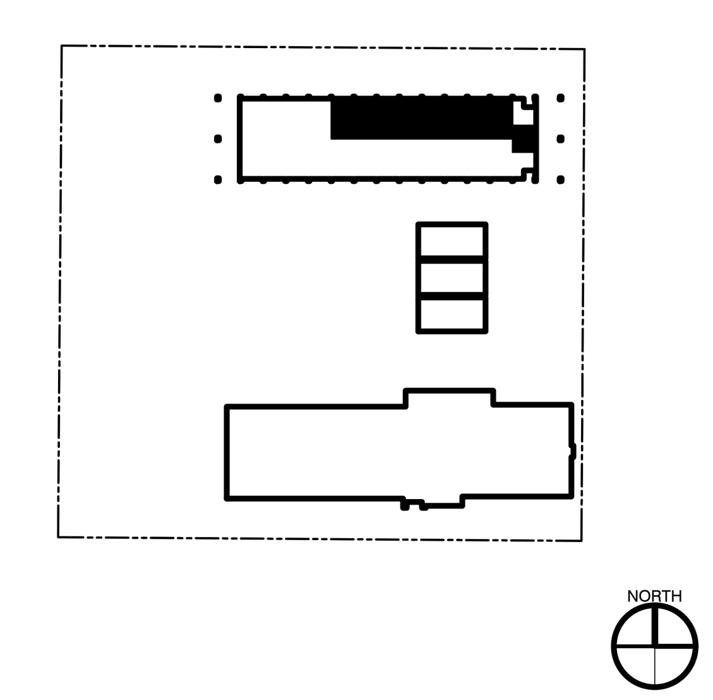

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MECHANICAL SCHEDLES & NOTES

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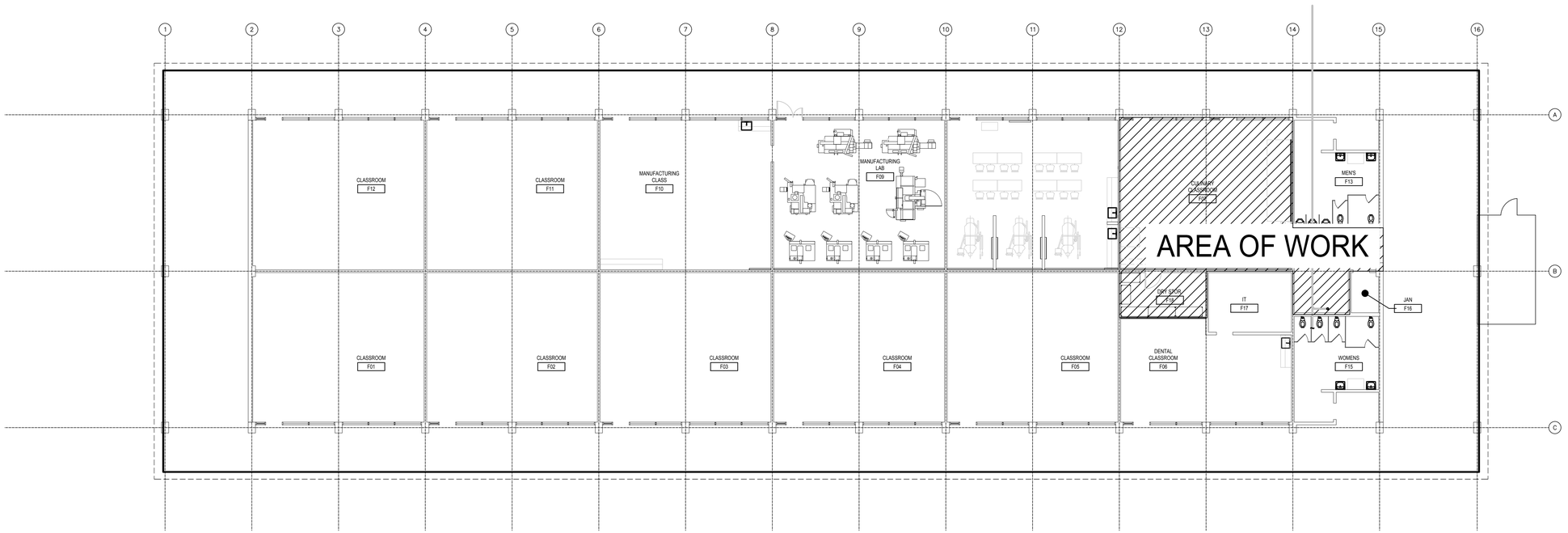
PROJECT NO.	21-W04-01

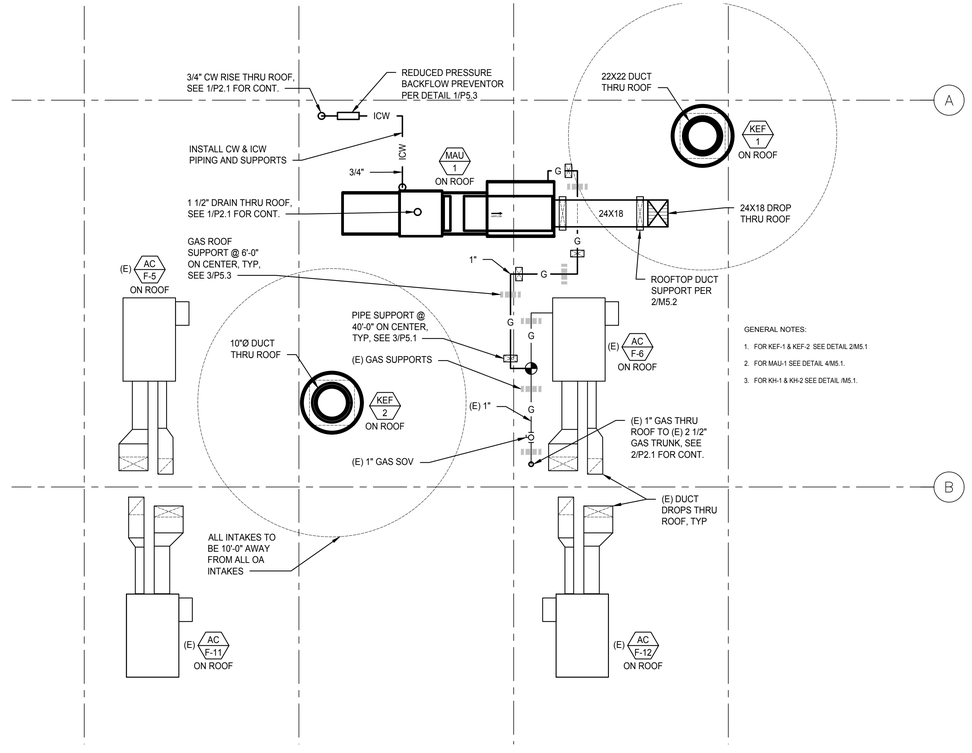
M0.6



OVERALL MECHANICAL FLOOR PLAN

SCALE: 3/32" = 1'-0"

1 M2.1



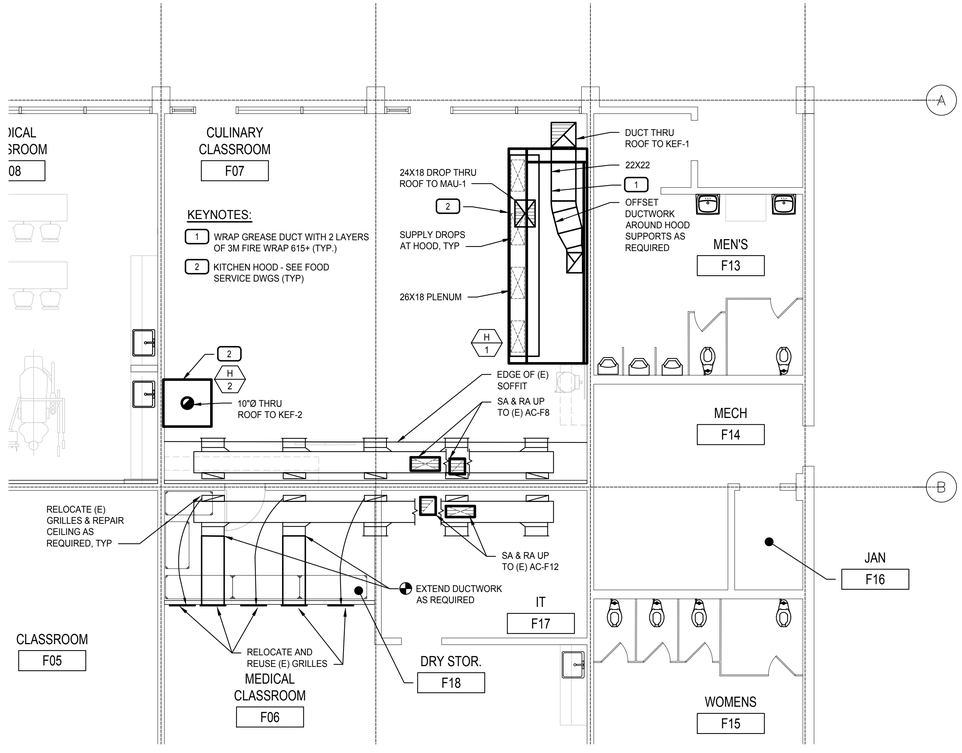
GENERAL NOTES:

1. FOR KEF-1 & KEF-2 SEE DETAIL 2/M5.1
2. FOR MAU-1 SEE DETAIL 4/M5.1.
3. FOR KH-1 & KH-2 SEE DETAIL /M5.1.

PARTIAL MECHANICAL ROOF PLAN

SCALE: 3/16" = 1'-0"

3 M2.1



PARTIAL MECHANICAL FLOOR PLAN

SCALE: 3/16" = 1'-0"

2 M2.1

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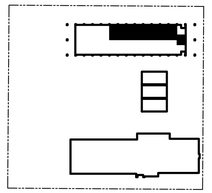

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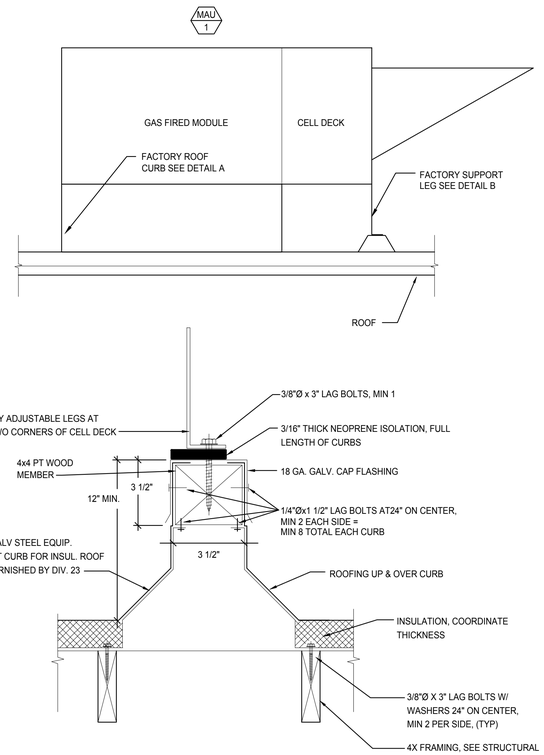
MECHANICAL OVERALL PLAN & PARTIAL PLANS

DATE	2022-07-24
PROJECT NO.	21-W04-01

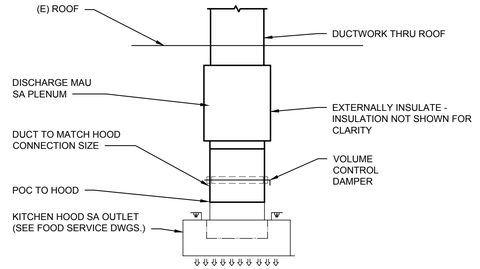
M2.1



MAKE UP AIR UNIT MOUNTING

SCALE: NONE

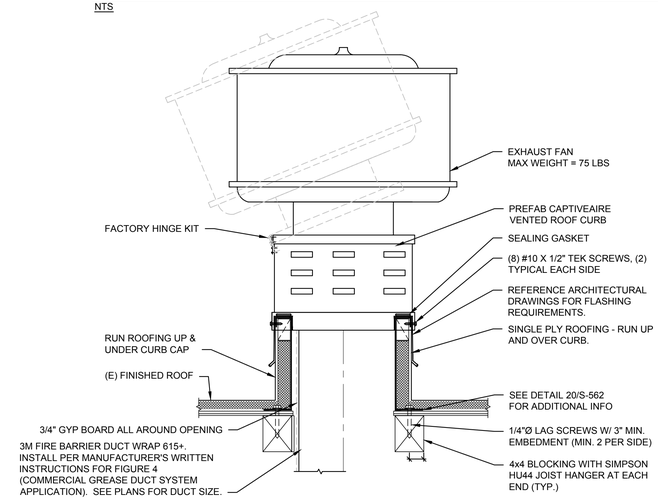
4 / M5.1



DUCT DROP FROM MAU UNIT ON ROOF DETAIL

NTS

3 / M5.1

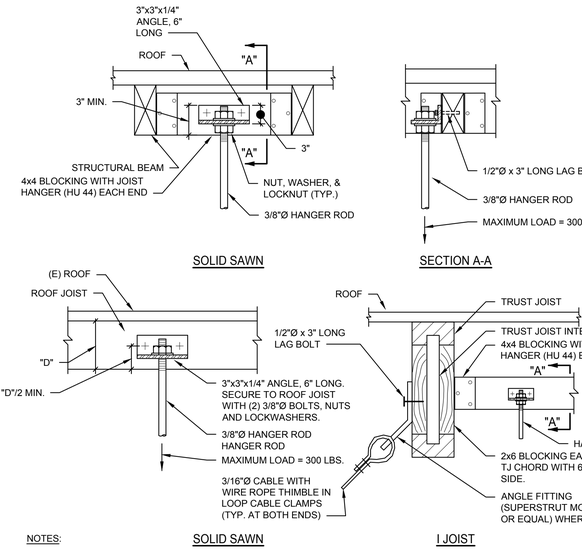


NOTE: IF REQUIRED, WOOD NAILERS TO BE FIRE TREATED WOOD.

ROOF TOP EXHAUST FAN DETAIL

NTS

2 / M-602



NOTES:

1. REDUCE HANGER SPACING AS REQUIRED BASED ON MAX. ALLOWABLE HANGER LOAD SPECIFIED.

HANGER ROD SUPPORT DETAILS

NTS

1 / M5.1

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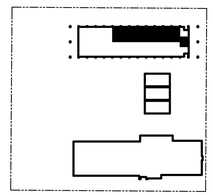

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MECHANICAL DETAILS

DATE	2022-07-24
PROJECT NO.	21-W04-01

M5.1

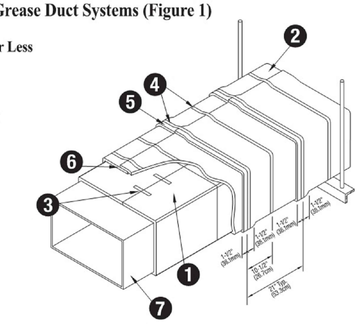
3M™ Fire Barrier Duct Wrap 615+ Commercial Kitchen Grease Duct Systems (Figure 1)

1- or 2-Hour Shaft Alternative Zero Clearance to Combustibles
Telescoping Wrap Technique With Banding For Ducts 24" (60.9cm) or Less

1. First layer 3M™ Fire Barrier Duct Wrap 615+
2. Second layer 3M™ Fire Barrier Duct Wrap 615+
3. 3/4" (19mm) wide filament tape
4. Steel banding 1/2" (12.7mm) wide min. typical for permanent fastening
5. Longitudinal joint butt or min. 3" (76.2mm) overlap on inner layer, min. 3" (76.2mm) overlap on outer layer
6. Perimeter (lateral) joint butt or min. 3" overlap (76.2mm) on inner layer, min. 3" (76.2mm) overlap on outer layer
7. Metallic commercial cooking exhaust duct

Note: System integrity is limited by quality of installation. Ducts ≥ 24" (60.9cm) wide require pinning on the bottom side of horizontal ducts and on a minimum of one of the wider sides of a vertical duct. Vertical ducts require pinning on all sides > 48" (121.8cm).

Note: See manufacturer installation instructions for additional information.



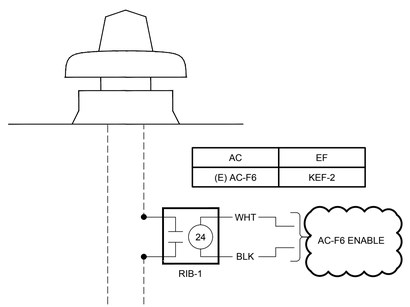
GENERAL NOTES:

1. 3M FIRE BARRIER DUCT WRAP 615+ CSFM 2440-0941:112.

3M FIRE WRAP DETAIL

NTS

5 / M5.2



POWER BY E.C.

EXHAUST FAN INTERLOCKS

INTERLOCK SCHEDULE

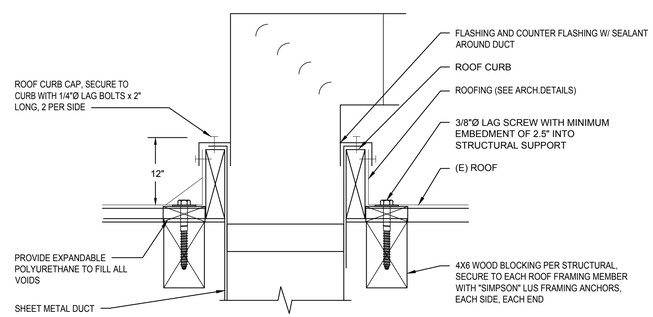
GENERAL NOTES:

1. SEE PLANS AND SCHEDULES FOR QUANTITIES.
2. POWER BY DIVISION 23.
3. EF INTERLOCKED TO UNIT BY CONTROLS CONTRACTOR.
4. KEF-2 SHALL BE STARTED FROM HOOD SWITCH, KEF-2 SHALL BE INTERLOCKED TO (E) AC-F6.

EXHAUST FAN CONTROLS

NTS

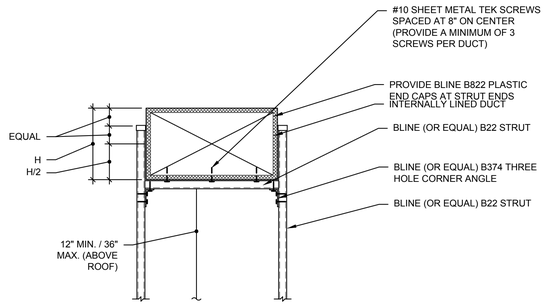
4 / M5.2



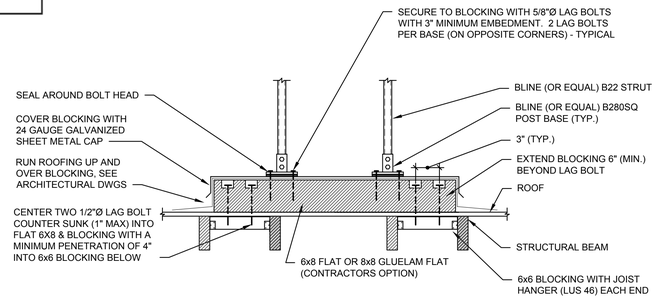
DUCT THRU ROOF DETAIL

NTS

3 / M5.2



"SINGLE" DUCTS



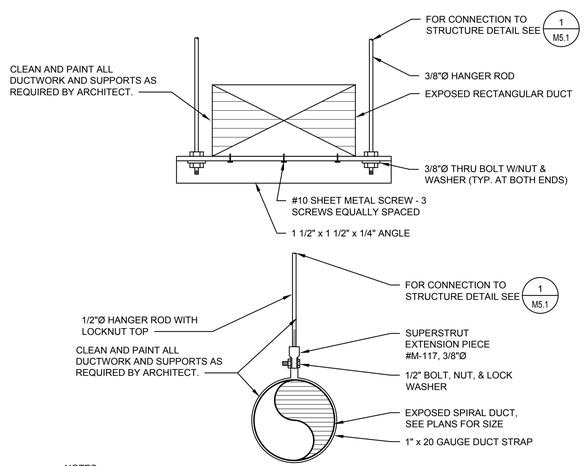
NOTES:

1. CONNECT STRUT/FITTINGS TOGETHER WITH MANUFACTURERS HEX SCREWS AND STANDARD NUTS (WITHOUT SPRINGS). PROVIDE LOCK WASHER AT EACH CONNECTION.
2. MAXIMUM SPACING BETWEEN SUPPORTS TO BE 6'-0".

DUCT SUPPORT ON WOOD DECK ROOF DETAIL

NTS

2 / M5.2



NOTES:

1. MAXIMUM SPACING OF SUPPORTS TO BE 10'-0".

EXPOSED DUCT MOUNTING DETAIL

SCALE: NONE

1 / M5.2

APPROVALS

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MECHANICAL ENGINEERS
601 UNIVERSITY AVE., SUITE 260 | SACRAMENTO, CA 95825
WESTON & ASSOCIATES #22-033

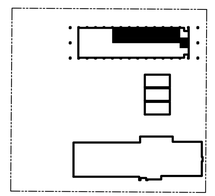
OWNER

Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT

CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
Woodland, CA 95695

KEY PLAN



NORTH

REGISTERED PROFESSIONAL ENGINEER DAVID A. WESTON No. M31220 RENEWAL DATE: 12/31/2023 MECHANICAL STATE OF CALIFORNIA

FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE

MECHANICAL DETAILS

DATE	2022-07-24
PROJECT NO.	21-W04-01

M5.2

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
This document demonstrates compliance for process systems that are within the scope of the permit application and are regulated by mandatory requirements in §120.6 or prescriptive requirements in §140.9. This compliance document is used for newly constructed, addition and alteration projects.			
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 1 of 5)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

A. GENERAL INFORMATION

01	Project Location (city)	Woodland	04	Total Conditioned Floor Area	1000
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐ Office		☐ Retail	☐ Non-refrigerated Warehouse		
☐ Hotel/ Motel		☐ School	☐ Healthcare Facility		
☐ High-Rise Residential		☐ Relocatable Class Bldg	☒ Other (write in)		

B. PROJECT SCOPE

This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in §120.6 or prescriptive requirements in §140.9.

My project consists of: (check all that apply):

01	02
☐ Refrigerated Spaces <3,000 ft² Total (no Title 24, Pt6 requirements)	☐ Elevator Lighting & Ventilation Controls (mandatory §120.6(f))
☐ Refrigerated Spaces >=3,000 ft² Total (mandatory §120.6(a))	☐ Escalator & Moving Walkway Speed Controls (mandatory §120.6(g))
☐ Food Stores >8,000 ft² cfa (mandatory §120.6(b))	☐ Computer Rooms >20 W/ ft² Power Density (prescriptive §140.9(a))[1]
☐ Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory §120.6(c))	☒ Commercial Kitchen Ventilation/Exhaust (prescriptive §140.9(b))[1]
☐ Newly Installed Process Boilers (mandatory §120.6(d))	☐ Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive §140.9(c))[1]
☐ Compressed Air Systems Combined HP >= 25 (mandatory §120.6(e))	

[1] *FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.*

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 2 of 5)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through O. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11
Refrigerated Warehouse/ Space §120.6(a) (See Table F)	Commercial Refrigeration §120.6(b) (See Table G)	Parking Garage Exhaust §120.6(c) (See Table H)	Process Boilers §120.6(d) (See Table I)	Compressed Air Systems §120.6(e) (See Table J)	Elevators §120.6(f) (See Table K)	Escalators & Moving Walkways §120.6(g) (See Table L)	Computer Rooms §140.9(a) (See Table M)	Commercial Kitchens §140.9(b) (See Table N)	Laboratory/Factory Exhaust §140.9(c) (See Table O)	**Compliance Results**
								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.

E. ADDITIONAL REMARKS

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

F. REFRIGERATED WAREHOUSES/SPACES

This section does not apply to this project.

G. COMMERCIAL REFRIGERATION

This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST

This section does not apply to this project.

I. PROCESS BOILER

This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS

This section does not apply to this project.

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PRC-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 3 of 5)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

K. ELEVATOR LIGHTING AND VENTILATION

This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS

This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY

This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in §140.9(b).

Kitchen Ventilation §140.9(b)2

01	☐	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
	Requirements	
02	Replacement Air to Hood Compliance Method §140.9(b)1A	
	Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate	
03	Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of:	
	The hood exhaust flow minus the available transfer air from adjacent spaces	
04	Location that is supplying transfer air:	
05	The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B:	
	NA: Not a kitchen/ dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm	

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 4 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

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 high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	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
13	☒	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) and §150.0(j)3

TABLE 120.3-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
			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

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 5 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	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 §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 6 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan Smith	Documentation Author Signature:
Company: Weston & Associates Mechanical Engineers, Inc.	Signature Date: 2022-11-28
Address: 601 University Suite 260	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Sacramento CA 95825	Phone: (916) 482-0820

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: David Weston	Responsible Designer Signature:
Company: Weston & Associates	Date Signed: 2022-11-28
Address: 601 University Ave, Suite 260	License: M31220
City/State/Zip: Sacramento CA 95825	Phone: (916) 482-0820

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 1 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

A. GENERAL INFORMATION

01	Project Location (city)	Woodland	02 Climate Zone	12
03	Occupancy Types Within Project (select all that apply):			
☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ State Building	☐ Healthcare Facility	☐ Other (Write In)		

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, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA 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 in newly constructed building)		☐ Equipment	☐ Distribution	☐ Controls
☒ System Alteration (equipment, distribution or controls)	Individual System (serving nonresidential spaces)	☒ 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 high-rise residential occupancy.*

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 2 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

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.

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 3 of 6)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
A. O. SMITH ATI BTX-80	Residential-Duty Commercial Gas-Fired Storage (75,000-105,000 BTUH)	41-50	GPM >= 4.0	0.95	0.61

[1] *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*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. 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

APPROVALS

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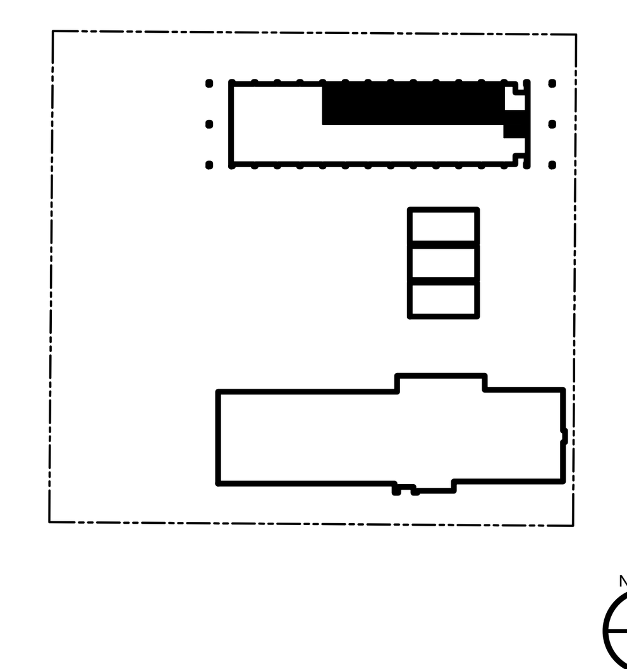
KEY PLAN



REGISTERED PROFESSIONAL ENGINEER — DAVID A. WESTON — No. M31220 — RENEWAL DATE: 12/31/2023 — MECHANICAL — STATE OF CALIFORNIA

FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE

TITLE 24 ENERGY COMPLIANCE

DATE	2022-07-24
PROJECT NO.	21-W04-01

M8.1

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PRC-E**
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 4 of 5)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

Kitchen Exhaust: Airflow Rate §140.9(b)1B

01	Kitchen Name or Item Tag	Kitchen	Compliance Method per §140.9(b)1B		Type1 hood design exhaust rates do not exceed the maximum allowed per §140.9(b)1 as documented below	
02	03	04	05	06	07	08
Name or Item Tag	Hood Type[1]	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM	Max Hood Exhaust Rate Allowed CFM
H-1	Type I	Wall-mounted Canopy	15	Heavy Duty	3600	4200
H-2	Type II	Wall-mounted Canopy	4	Light Duty	540	501

[1]*FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per §140.9(b)1B*

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS

This section does not apply to this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-PRC-01-E - Covered Process	☐	☐

Q. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 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		Field Inspector	
			Pass	Fail
NRCA-PRC-02-F Kitchen Exhaust	☐	☐		

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: nrv 20200601

Registration Provider: Energysoft

Report Generated: 2022-11-28 13:23:21

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PRC-E**
Project Name:	Woodland Joint USD Kitchen Title 24	**Report Page:**	**(Page 5 of 5)**
Project Address:	435 6th Street	**Date Prepared:**	11/28/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan Smith	Documentation Author Signature:
Company: Weston & Associates Mechanical Engineers, Inc.	Signature Date: 2022-11-28
Address: 601 University Suite 260	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Sacramento CA 95825	Phone: (916) 482-0820

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: David Weston	Responsible Designer Signature:
Company: Weston & Associates	Date Signed: 2022-11-28
Address: 601 University Ave, Suite 260	License: M31220
City/State/Zip: Sacramento CA 95825	Phone: (916) 482-0820

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: nrv 20200601

Registration Provider: Energysoft

Report Generated: 2022-11-28 13:23:21

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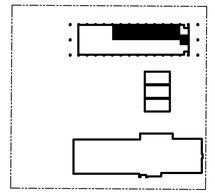
Woodland, CA 95695

KEY PLAN



NORTH

REGISTERED PROFESSIONAL ENGINEER
DAVID A. WESTON
No. M31220
RENEWAL DATE: 12/31/2023
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE

TITLE 24 ENERGY COMPLIANCE

DATE	2022-07-24
PROJECT NO.	21-W04-01

M8.2

ANCHORAGE / BRACING NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONTRACT DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 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 CONNECTION 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 COMPONET IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
4. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

PIPING AND DUCTWORK SYSTEM BRACING NOTE:

PIPING AND DUCTWORK SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING PIPING (PP),

_ PP - OPTION 1:
DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTED AND DETAILS.

X PP - OPTION 2:
SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#), MASON OPM-0043-13 SEISMIC RESTRAINT SYSTEMS GUIDELINE.

EQUIPMENT LIST

GWH 1

GAS WATER HEATER:

"AO SMITH" CYCLONE HE MODULATING BURNER CONDENSING GAS FIRED WATER HEATER, MODEL BTX-80.
HEATER SHALL BE RATED AT 76,000 BTUH INPUT AND PROVIDE 95 GPH RECOVERY AT 90°F TEMPERATURE RISE.
TANK SHALL BE 50 GALLON CAPACITY AND BE CONSTRUCTED IN ACCORDANCE WITH ASME CODE.

PROVIDE WITH MODEL BTX-80 CONCENTRIC VENT INTAKE/FLUE KIT, METAL EXHAUST ELBOW ASSEMBLY, AND MODEL BTX-80 CONDENSATE DRAIN NEUTRALIZATION KIT.

120V/1Ø POWER

SHIPPING WEIGHT = 225 LBS. / MAXIMUM OPERATING WEIGHT = 650 LBS.

SET OUTLET TEMPERATURE TO 140°F.

SEE DETAIL 1/P-5.1 FOR MOUNTING

CP 1

DOMESTIC WATER CIRCULATING PUMP:
BELL AND GOSSET MODEL NBF-9U. PUMP TO BE AS FOLLOWS:
- LEAD FREE BRONZE CIRCULATING PUMP
- 3/4" FLANGED CONNECTIONS
- PUMP TO BE CAPABLE OF PROVIDING 3 GPM AT 5 FEET HEAD
  120V / 1Ø/ 60 Hz - 41W / 0.40 FLA
- PROVIDE WITH COMBINATION TC-1 AUTOMATIC TIMER KIT AND AQS-3/4" AQUASTAT.

OPERATING WEIGHT < 15 LBS.

ET 1

EXPANSION TANK:

WATTS MODEL DETA5 LEAD FREE EXPANSION TANK. TANK TO BE AS FOLLOWS:
- ASME SECTION VIII CONSTRUCTION
- FDA APPROVED FIXED BUTYL BLADDER
- INTEGRAL BLADDER INTEGRITY MONITOR
- TANK TO BE 3.5 GALLONS WITH A 2.3 GALLON ACCEPTANCE VOLUME
- 3/4" INLET CONNECTION
- MAXIMUM OPERATING PRESSURE OF 150 PSIG
- MAXIMUM OPERATING WEIGHT = <40 LBS

SEE DETAIL 3-P5.1 FOR MOUNTING.

IWH 1

TANKLESS ELECTRIC WATER HEATER:

"CHRONOMITE" MICRO-LOW FLOW TANKLESS WATER HEATER, MODEL M30L/208 WITH DIGITAL MICRO PROCESSING TEMPERATURE CONTROL CAPABLE OF MAINTAINING OUTLET TEMPERATURE. WATER HEATER TO BE 6240 WATTS, 208V/1Ø, 30 AMPS. HEATER TO BE CAPABLE OF A TEMPERATURE RISE OF 53°F AT 0.8 GPM.

UNIT WEIGHT = 5 LBS.
SET OUTLET TEMPERATURE TO 105°F.

PLUMBING GENERAL NOTES

1. MECHANICAL AND PLUMBING DETAILS APPLY TO ALL BUILDINGS WHETHER REFERENCED OR NOT.
2. PROVIDE FIRE STOPPING ASSEMBLY PROTECTION FOR PIPE PENETRATIONS OF RATED ASSEMBLIES. FIRE STOP RATING SHALL MATCH RATED ASSEMBLY BEING PENETRATED.
3. PLUMBING AND FIRE SPRINKLER PIPING SHALL OFFSET OVER OR UNDER DUCTS. COORDINATE WITH HEATING CONTRACTOR.
4. PLUMBING CONTRACTOR TO OFFSET PIPING AROUND SKYLIGHTS.
5. PLUMBING CONTRACTOR TO OFFSET PIPING AROUND ROOF ACCESS LADDERS.
6. PIPING SHALL NOT PENETRATE INTO, OVER, OR THROUGH IT CLOSETS OR ELECTRICAL ROOMS UNLESS IT SERVES THAT SPECIFIC ROOM.
7. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, OR STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. THE CONTRACTORS SHALL COORDINATE LOCATION OF ALL PLUMBING PIPING WITH ALL OTHER TRADES ON THIS PROJECT. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
8. ALL VALVES SHALL BE FULL LINE SIZES UNLESS NOTED OTHERWISE.
9. PROVIDE WALL CLEANOUT AT ALL SINKS, LAVATORIES, AND URINALS.
10. PIPING SHALL BE SUPPORTED IN ACCORDANCE TO SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS".
11. ALL NEW SANITARY WASTE PIPING SHALL HAVE A MINIMUM BURRY DEPTH OF 18" AND BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PIPING SHALL BE UNIFORMLY SLOPPED BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE.
12. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, EQUIPMENT, HOPPER DRAINS, AND INDIRECT DRAINS IN WALLS.
13. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO "M" SHEETS FOR ADDITIONAL INFORMAITON.
14. PROVIDE WATER HAMMER ARRESTORS (WHA) AT ALL FIXTURES AS INDICATED IN THE SPECIFICAITONS/NOTES. WHA SHALL BE SIZED AND PER THE PLUMBING & DRAINAGE INSTITUTE (PDI). WHA SHALL BE INSTALLED IN WALLS (NOT ABOVE CEILINGS).
15. REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, EXACT LOCATIONS OF PLUMBING FIXTURES, AND PLUMBING FIXTURE MOUNTING HEIGHTS.
16. CONCEAL ALL PIPING IN WALL FURRINGS, PARTITIONS, ABOVE CEILINGS, EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
17. PROVIDE A TRAP PRIMER AT ALL FLOOR DRAINS AND FLOOR SINKS.

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

1. CALIFORNIA ADMINISTRATIVE CODE, 2022
2. CALIFORNIA BUILDING CODE, 2019
3. CALIFORNIA MECHANICAL CODE, 2019
4. CALIFORNIA PLUMBING CODE, 2019
5. CALIFORNIA FIRE CODE, 2019
6. CALIFORNIA ELECTRICAL CODE, 2019
7. CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2019

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GAS PIPE SIZING

GAS LOAD (EACH) (MBH)	QUANITY	TOTAL GAS LOAD (MBH)	DESCRIPTION
60	12	720	(E) AC- UNITS
190	1	190	MAU-1
76	1	76	GWH-1
OVERALL GAS DEMAND		986	

GAS MAIN SIZING AT 175' TOTAL DEVELOPED LENGTH

GAS DEMAND (MBH)	PIPE SIZE
63	3/4"
119	1"
244	1-1/4"
366	1-1/2"
704	2"
1,120	2 1/2"
1,980	3"

NOTES:
1. SEE FLOOR PLAN FOR EQUIPMENT LOCATIONS.

GAS PIPE SIZING BASED ON TABLE 1215.2(1) CPC-2019 (PRESSURE DROP OF 1 PSI), 250 FOOT COLUMN. GPR OUTLET PRESSURE AT 7" WC. RUNOUTS TO APPLIANCES LESS THAN 6" SHALL BE SAME SIZE AS APPLIANCE CONNECTION. PROVIDE A SHUT-OFF VALVE AHEAD OF UNION AND WITHIN 3'-0" OF APPLIANCE CONNECTOR.

PLUMBING LEGEND

ABBREVIATIONS

ABC	ABOVE CEILING	FT	FEET	POD	POINT OF DISCONNECT
AD	ACCESS DOOR	FU	FIXTURE UNITS	PRV	PRESSURE REDUCING VALVE
AFF	ABOVE FINISHED FLOOR	G	NATURAL GAS	PS	PRESSURE SWITCH
AFG	ABOVE FINISHED GRADE	GCO	GRADE CLEANOUT	PSI	POUNDS PER SQUARE INCH
AP	ACCESS PANEL	GD	GARBAGE DISPOSER	PSIG	POUNDS PER SQUARE INCH GAUGE
AQ	AQUASTAT	GLV	GLOBE VALUE	PT	PLUGGED TEE
ARCH	ARCHITECT	GM	GAS METER	R	RISE / RISER
AV	ACID VENT	GPH	GALLONS PER HOUR	RD	ROOF DRAIN
AVTR	ACID VENT THRU ROOF	GPM	GALLONS PER MINUTE	RET	RETURN
AW	ACID WASTE	GPR	GAS PRESSURE REGULATOR	RIO	ROUGH IN ONLY
BFF	BELOW FINISHED FLOOR	GPRV	GAS PRESSURE REGULATOR VALVE	RM	ROOM
BFP	BACKFLOW PREVENTER	GSCK	GAS COCK	RO	REVERSE OSMOSIS WATER
BFV	BUTTERFLY VALVE	GSV	GAS SEISMIC VALVE	RV	RELIEF VALVE
BG	BELOW GRADE	GV	GATE VALVE	RWL	RAINWATER LEADER
BLV	BALL VALVE	GW	GREASE WASTE PIPING	SCD	SECONDARY CONDENSATE DRAIN
CA	COMPRESSED AIR	HB	HOSE BIBB	SCH	SCHEDULE
CAP	CAPACITY	HD	HOPPER DRAIN	SCW	COLD SOFT WATER
CB	CATCH BASIN	HPG	HIGH PRESSURE NATURAL GAS	SD	STORM DRAIN
CBV	CALIBRATED BALANCE VALVE	HW	DOMESTIC HOT WATER	SH	SHOWER
CD	CONDENSATE DRAIN	HWR	DOMESTIC HOT WATER RETURN	SHT	SHEET
CFH	CUBIC FEET PER HOUR	ICW	INDUSTRIAL COLD WATER	SHW	HOT SOFT WATER
CI	CAST IRON	IHW	INDUSTRIAL HOT WATER	SHWR	HOT SOFT WATER RETURN
CKV	CHECK VALUE	IHWR	INDUSTRIAL HOT WATER RETURN	SK	SINK
CL	CENTER LINE	ID	INSIDE DIAMETER	SMS	SHEET METAL SCREW
CLG	CEILING	IE	INVERT ELEVATION	SOV	SHUT OFF VALVE
CMP	CORRUGATED METAL PIPE	IW	INDIRECT WASTE	SS	STAINLESS STEEL
CO	CLEANOUT	LA	LABORATORY AIR	STD	STANDARD
CO2	CARBON DIOXIDE	LAV	LAVATORY	STR	STRAINER
COP	CAP ON END OF PIPE	LBS	POUNDS	TA	TO ABOVE
COTF	CLEANOUT TO FLOOR	LG	LABORATORY GAS	TB	TO BELOW
COTG	CLEANOUT TO GRADE	LP	LOW PRESSUE	TEMP.	TEMPERATURE
CP	CIRCULATING PUMP	LWT	LEAVING WATER TEMPERATURE	TH	THERMOMETER
CR	CONCENTRIC REDUCER	MA	MEDICAL AIR	TMV	THERMOSTATIC MIXING VALVE
CSK	CLINIC SINK	MAX	MAXIMUM	TP	TRAP PRIMER
CV	CONTROL VALVE	MFR	MANUFACTURER	TYP	TYPICAL
CW	DOMESTIC COLD WATER	MGC	MEDICAL GAS COLUMN	TW	TEMPERED WATER
D	DROP	MIN	MINIMUM	UC	UNDER COUNTER
DCW	DOMESTIC COLD WATER	MISC	MISCELLANEOUS	UF	UNDER FLOOR
DD	DECK DRAIN	MPG	MEDIUM PRESSURE NATURAL GAS	UG	UNDERGROUND
DET	DETAIL	(N)	NEW	UN	UNION OR FLANGE
DF	DRINKING FOUNTAIN	N2	NITROGEN	UNO	UNLESS NOTED OTHERWISE
DHW	DOMESTIC HOT WATER	N2O	NITROUS OXIDE	UR	URINAL
DHWR	DOMESTIC HOT WATER RETURN	NC	NORMALLY CLOSED	V	SANITARY VENT
DI	DEIONIZED WATER	NIC	NOT IN CONTRACT	VB	VALVE BOX
DN	DOWN	NO	NORMALLY OPEN	VAC	MEDICAL VACUUM
DWG	DRAWING	NTS	NOT TO SCALE	VR	VENT RISER
(E)	EXISTING	O2	OXYGEN	VTR	VENT THRU ROOF
EWH	ELECTRIC WATER HEATER	OC	ON CENTER	W	SANITARY WASTE
EWT	ENTERING WATER TEMPERATURE	OFCI	OWNWER FURNISHED CONTRACTOR INSTALLED	WD	WASTE DROP
FA	FROM ABOVE	ORD	OVERFLOW ROOF DRAIN	W/	WITH
FB	FROM BELOW	ORWL	OVERFLOW RAIN WATER LEADER	W/O	WITHOUT
FC	FLEXIBLE CONNECTION	OH	OVERHEAD	WAGD	WASTE ANESTHESIA GAS DISPOSAL
FCO	FLOOR CLEAN OUT	P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING	WC	WATER CLOSET
FD	FLOOR DRAIN	P/L	PROPERTY LINE	WCO	WALL CLEAN OUT
FHC	FIRE HOSE RACK & CABINET	PAN	PIPE ANCHOR	WD	WASTE DROP
FLR	FLOOR	PG	PRESSURE GAUGE	WH	WALL HYDRANT
FPM	FEET PER MINUTE	PL	PLATE	WHA	WATER HAMMER ARRESTER
FS	FLOOR SINK	PLBG	PLUMBING	WM	WATER METER
FSH	FIRE SPRINKLER HEAD	POC	POINT OF CONNECTION	WSP	WET STANDPIPE
FSP	FIRE SPRINKLER PIPE				

SYMBOLS

	DOMESTIC COLD WATER LINE		ITEM TO BE REMOVED / DEMOED
	DOMESTIC HOT WATER		ITEM TO BE ABANDONED IN PLACE
	DOMESTIC HOT WATER HEAT TRACE		BALL VALVE
	DOMESTIC HOT WATER RETURN		BALANCE VALVE
TW	TEMPERED WATER		BUTTERFLY VALVE
NPW	NON POTABLE WATER		CHECK VALVE
ICW	INDUSTRIAL COLD WATER LINE		LEVER HANDLE GAS COCK
IHW	INDUSTRIAL HOT WATER		PRESSURE REDUCING VALVE
IHWR	INDUSTRIAL HOT WATER RETURN		SOLENOID VALVE W/ MOTOR ACTUATOR
	SOIL OR WASTE LINE BELOW GRADE		STRAINER
	SOIL OR WASTE LINE ABOVE GRADE		PRESSURE GAUGE
IW	INDIRECT WASTE LINE		THERMOMETER
GW	GREASE WASTE LINE		UNION
AW	ACID WASTE LINE	T&P	TEMP.. & PRESSURE RELIEF LINE
	VENT LINE		VALVE BOX
AV	ACID VENT LINE		CAP (END OF PIPE)
RWL	RAINWATER LEADER LINE		CIRCULATING PUMP
ORWL	OVERFLOW RAINWATER LEADER LINE		ANGLE VALVE
CD	CONDENSATE DRAIN		PRESSURE OR TEMP. RELIEF VALVE
G	NATURAL GAS LINE (LOW PRESSURE)	Ø	DIAMETER
VAC	DENTAL VACUUM	Φ COTF	CLEANOUT TO FLOOR
DA	DENTAL COMPRESSED AIR	Φ COTG	CLEANOUT TO GRADE
CA	COMPRESSED AIR	II CO	CLEANOUT
	FLOW IN DIRECTION OF ARROW		FLOOR DRAIN
	REDUCER		FLOOR SINK
	RISER DOWN (ELBOW)		GAS TURRET
	RISER UP (ELBOW)		HOSE BIBB
	R , D RISE OR DROP		POINT OF CONNECTION
	GATE VALVE		POINT OF DISCONNECTION
ROOM NAME --	ROOM NAME AND NUMBER		

APPROVALS

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▲INSTITUTIONAL ▲COMMERCIAL ▲RESIDENTIAL ▲INTERIORS ▲CONSTRUCTION MANAGEMENT

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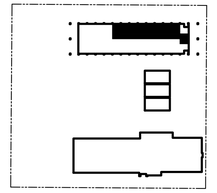
OWNER

Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
Woodland, CA 95695

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
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RENEWAL DATE: 12/31/2023
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NO.	REVISION DESCRIPTION	DATE

PLUMBING LEGNED & NOTES

DATE	2022-07-24
PROJECT NO.	21-W04-01

P0.1

PLUMBING FIXTURE SCHEDULE

FIXTURE	GENERAL DISCRIPTION	BASE FIXTURE	VALVE / FAUCET	TRIM	WHA REQUIRED AT FIXTURE	NOTES	FIXTURE UNITS				PLUMBING PIPE BRANCH SIZE SERVING FIXTURE						
											VENT	WASTE		COLD WATER		HOT WATER	
							WASTE	VENT	CW	HW		BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
WC-1	ADA WATER CLOSET | TOP SPUD BOWL | BATTERY POWERED SENSOR OPERATED FLUSH VALVE	EXISTING WATER CLOSET LEFT IN PLACE	ZURN AQUA SENSE AV MODEL ZER6000PL-W2-HET WATER CLOSET FLUSH VALVE. VALVE TO BE AS FOLLOWS: • TOP SPUD BOWL. • 1.28 GPF • ADA COMPLIANT	PROVIDE BEMIS COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT, MODEL 1055SSC. SEAT TO BE EQUIPPED WITH STAINLESS STEEL POSTS AND SELF SUSTAINING HINGE. (1 1/16" HEIGHT)	YES	FLUSH VALVE TRIP LEVER TO BE ON WIDE SIDE OF ENCLOSURE.	2.0	2.0	1.0	1.0	(E) CONN.	(E) CONN.	(E) CONN.	(E) CONN.	(E) CONN.	(E) CONN.	(E) CONN.
S-1	SINK AT DENTAL | COUNTER MOUNTED | STAINLESS STEEL | H&CW | MANUAL FAUCET | 1.5 GPM | ADA |	JUST MODEL SL-ADA-1921-A GR COUNTER MOUNT SINK FIXTURE TO BE AS FOLLOWS: • 18 GAUGE TYPE 304 18-8 STAINLESS STEEL • SINGLE BOWL 18x14x6.5" DEEP • SINGLE HOLE PUNCH • REAR CENTER DRAIN • ADA	CHICAGO FAUCETS MODEL 201-AGN8AE35VPABCP. FAUCET TO BE AS FOLLOWS: • H&CW WITH 8" GOOSENECK SPOUT • MANUAL LEVER OPERATOR • CHROME PLATED FINISH • 1.5 GPM VANDAL PROOF AERATOR • ADA COMPLIANT	- PROVIDE WITH GRID DRAIN WITH OFFSET AND P-TRAP - 64 OZ GELCO TRAP PLASTER TRAP	YES	-	2.0	2.0	1.0	1.0	1 1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"
S-1	SINK AT DENTAL | COUNTER MOUNTED | STAINLESS STEEL | H&CW | MANUAL FAUCET | 1.5 GPM | ADA |	JUST MODEL SL-ADA-1921-A GR COUNTER MOUNT SINK FIXTURE TO BE AS FOLLOWS: • 18 GAUGE TYPE 304 18-8 STAINLESS STEEL • SINGLE BOWL 18x14x6.5" DEEP • SINGLE HOLE PUNCH • REAR CENTER DRAIN • ADA	CHICAGO FAUCETS MODEL 201-AGN8AE35VPABCP. FAUCET TO BE AS FOLLOWS: • H&CW WITH 8" GOOSENECK SPOUT • MANUAL LEVER OPERATOR • CHROME PLATED FINISH • 1.5 GPM VANDAL PROOF AERATOR • ADA COMPLIANT	- PROVIDE WITH GRID DRAIN WITH OFFSET AND P-TRAP - 64 OZ GELCO TRAP PLASTER TRAP	YES	-	2.0	2.0	1.0	1.0	1 1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"
S-2	SINK AT MANUFACTURING | COUNTER MOUNTED | STAINLESS STEEL | H&CW | MANUAL FAUCET | 1.5 GPM | ADA |	JUST MODEL SL-ADA-1921-A GR COUNTER MOUNT SINK FIXTURE TO BE AS FOLLOWS: • 18 GAUGE TYPE 304 18-8 STAINLESS STEEL • SINGLE BOWL 18x14x6.5" DEEP • SINGLE HOLE PUNCH • REAR CENTER DRAIN • ADA	CHICAGO FAUCETS MODEL 201-AGN8AE35VPABCP. FAUCET TO BE AS FOLLOWS: • H&CW WITH 8" GOOSENECK SPOUT • MANUAL LEVER OPERATOR • CHROME PLATED FINISH • 1.5 GPM VANDAL PROOF AERATOR • ADA COMPLIANT	- PROVIDE WITH GRID DRAIN WITH OFFSET AND P-TRAP	YES	-	2.0	2.0	1.0	1.0	1 1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"
S-3	KITCHEN PREP SINK (BY OTHERS) - REFERENCE KITCHEN DRAWINGS FOR DETAILS.	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	FIXTURE TO BE PROVIDED WITH FLOOR SINK FOR INDIRECT WASTE CONNECTION.	YES	INDIRECT WASTE CONNECTION - RUN INDIRECT WASTE FROM SINK AND SPILL OVER FLOOR SINK. INSULATE H&CW AND WASTE AT ADA SINK (SEE KITCHEN/ ARCHITECTURAL DRAWING FOR LOCATION) PER NOTE 6.	2.0	2.0	1.0	1.0	1 1/2"	2" BRANCH LINE TO FLOOR SINK. SERVING THIS FIXTURE		3/4"	1/2"	3/4"	1/2"
S-4	KITCHEN HANDWASH SINK (BY OTHERS) - REFERENCE KITCHEN DRAWINGS FOR DETAILS.	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	PROVIDE WITH OFFSET TAILPIECE AND P-TRAP.	YES	DIRECT WASTE CONNECTION. CONTRACTOR TO BRING PLUMBING UTILITIES TO FIXTURE AND CONNECT. INSULATE H&CW AND WASTE PER NOTE 6.	2.0	2.0	1.0	1.0	1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
S-5	KITCHEN 3-COMPARTMENT SINK SINK (BY OTHERS) - REFERENCE KITCHEN DRAWINGS FOR DETAILS.	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS 2 FAUCETS AT THIS FIXTURE.	FIXTURE TO BE PROVIDED WITH FLOOR SINK FOR INDIRECT WASTE CONNECTION.	YES	INDIRECT WASTE CONNECTION - RUN INDIRECT WASTE FROM SINK AND SPILL OVER FLOOR SINK.	3.0	3.0	1.0	1.0	1 1/2"	3" BRANCH LINE TO FLOOR SINK. SERVING THIS FIXTURE		3/4"	1/2"	3/4"	1/2"
S-6	KITCHEN PRE-RINSE (BY OTHERS) - REFERENCE KITCHEN DRAWINGS FOR DETAILS.	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	FIXTURE TO BE PROVIDED WITH FLOOR SINK FOR INDIRECT WASTE CONNECTION.	YES	INDIRECT WASTE CONNECTION - RUN INDIRECT WASTE FROM SINK AND SPILL OVER FLOOR SINK.	2.0	2.0	1.0	1.0	1 1/2"	3" BRANCH LINE TO FLOOR SINK. SERVING THIS FIXTURE		3/4"	1/2"	3/4"	1/2"
DW	KITCHEN DISHWASHER (BY OTHERS) - REFERENCE KITCHEN DRAWINGS FOR DETAILS.	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	FIXTURE TO BE PROVIDED WITH FLOOR SINK FOR INDIRECT WASTE CONNECTION.	NO	INDIRECT WASTE CONNECTION - RUN INDIRECT WASTE FROM SINK AND SPILL OVER FLOOR SINK.	2.0	2.0	1.0	1.0	1 1/2"	3" BRANCH LINE TO FLOOR SINK. SERVING THIS FIXTURE		3/4"	1/2"	3/4"	1/2"
RB-1	ICE MAKER BOX	GUY GRAY BIM875QTSAB LEAD FREE RECESSED 20 GAUGE GALVANIZED METAL WATER BOX WITH 18 GAUGE FACEPLATE & 1/2" QUARTER TURN BALL VALVE.	-	-	NO	CONTRACTOR TO PROVIDE FINAL CONNECTION FROM BOX TO WATER FILTER AND FIXTURE. PROVIDE WITH STAINLESS STEEL BRAIDED HOSES FOR FINAL CONNECTIONS.	-	-	-	-	-	-	-	3/4"	1/2"	-	-

NOTES:
1. USE PIPE SIZE TABLE FOR SIZING ALL BRANCH WATER, WASTE, & VENT BRANCH PIPES.
2. REFERENCE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
3. WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.
4. AT ALL ADA SINKS AND LAVATORIES, INSULATE HOT WATER, COLD WATER, AND AND WASTE PIPING BELOW FIXTURE WITH "TRUEBRO" LAV GUARD PROTECTIVE MOLDED CLOSED CELL VINYL PIPE COVERS, WITH VANDAL RESISTANT SNAP-CLIP FASTENERS, AND AN ASTM E-84 SMOKE TEST RATING OF 0.
5. PROVIDE WALL CLEANOUT AT ALL SINKS WITH DIRECT CONNECTIONS.
6. PROVIDE WATER HAMMER ARRESTOR FOR ON BOTH H&CW BRANCH LINES AT ALL FIXTURES PER SPECIFICATION SECTION 22 05 23
7. WHERE FIXTURES ARE NOTED AS BEING "ADA", INSTALLATION TO MEET ADA REQUIREMENTS AND CBC REQUIREMENTS.

MAX. FIXTURE UNIT LOADING FOR WASTE PIPE

NOMINAL PIPE SIZE (INCHES)	2"Ø	3"Ø	4"Ø	6"Ø
FIXTURE UNITS (VERTICAL)	16*	48	256	1,380
FIXTURE UNITS (HORIZONTAL)	8*	35	216	720

NOTES:
1. PIPE SIZES TO BE PER CALIFORNIA PLUMBING CODE, TABLE 7-5.
2. SLOPE ALL HORIZONTAL WASTE PIPE AT 1/4" PER FOOT.

* EXCEPT SIX-UNIT TRAPS OR WATER CLOSETS.

MAX. FIXTURE UNIT LOADING FOR VENT PIPE

NOMINAL PIPE SIZE (INCHES)	1 1/2"Ø	2"Ø	2 1/2"Ø	3"Ø	4"Ø
FIXTURE UNITS (HORIZONTAL & VERTICAL)	8	24	48	84	256
FIXTURE LENGTH (FEET)	8*	35	216	720	300

NOTES:
1. PIPE SIZES TO BE PER CALIFORNIA PLUMBING CODE, TABLE 7-5.
2. SLOPE ALL HORIZONTAL WASTE PIPE AT 1/4" PER FOOT.

MAX. FIXTURE UNIT LOADING FOR WATER PIPE

NOMINAL PIPE SIZE (INCHES)	3/4"Ø	1"Ø	1 1/4"Ø	1 1/2"Ø	2"Ø	2 1/2"Ø	3"Ø	4"Ø
FIXTURE UNITS (WITHOUT FLUSH VALVES)	6	10	21	34	127	245	431	875
FIXTURE UNITS (WITH ONE OR MORE FLUSH VALVES)	-	5	10	20	48	124	295	850

NOTES:
1. USE ABOVE DATA ONLY WHEN PIPE SIZES ARE NOT OTHERWISE SIZED ON THE DRAWINGS.
2. FIXTURE UNITS ARE AS LISTED FOR PUBLIC USE IN THE CALIFORNIA PLUMBING CODE.

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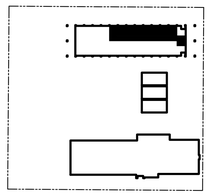
KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER DAVID A. WESTON No. M31220 STATE OF CALIFORNIA MECHANICAL

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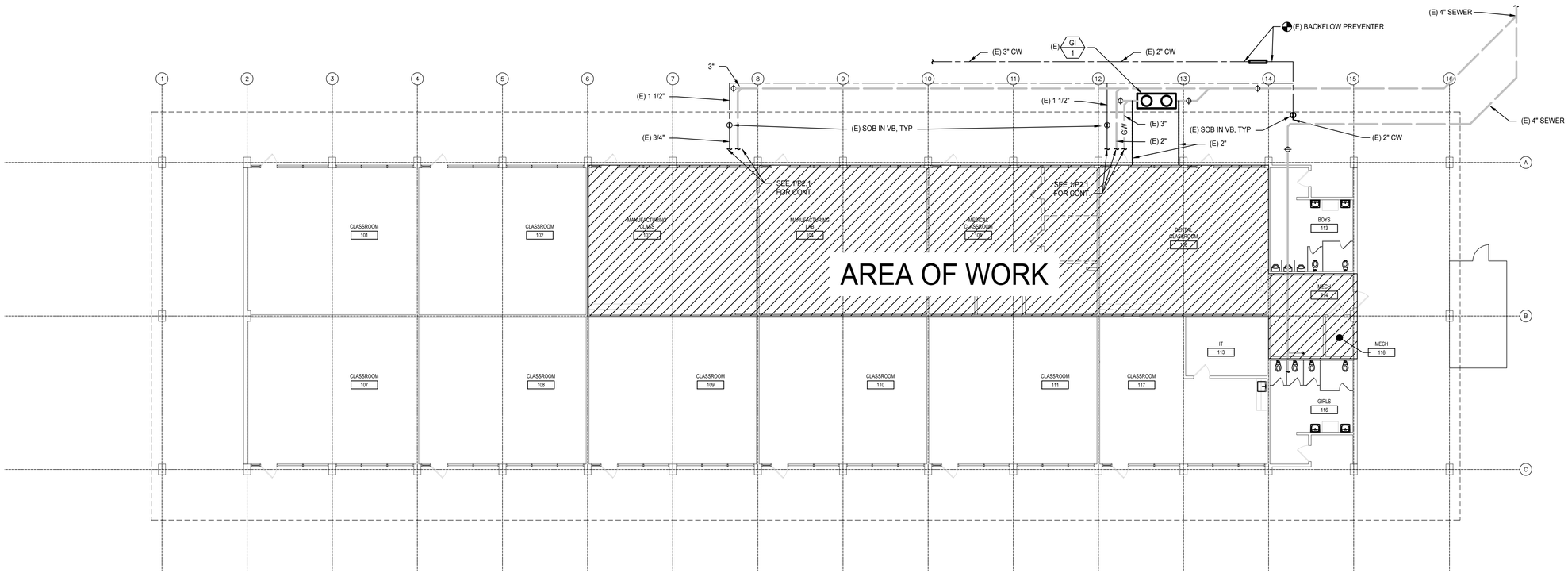
PLUMBING SCHEDULES

DATE	2022-07-24
PROJECT NO.	21-W04-01

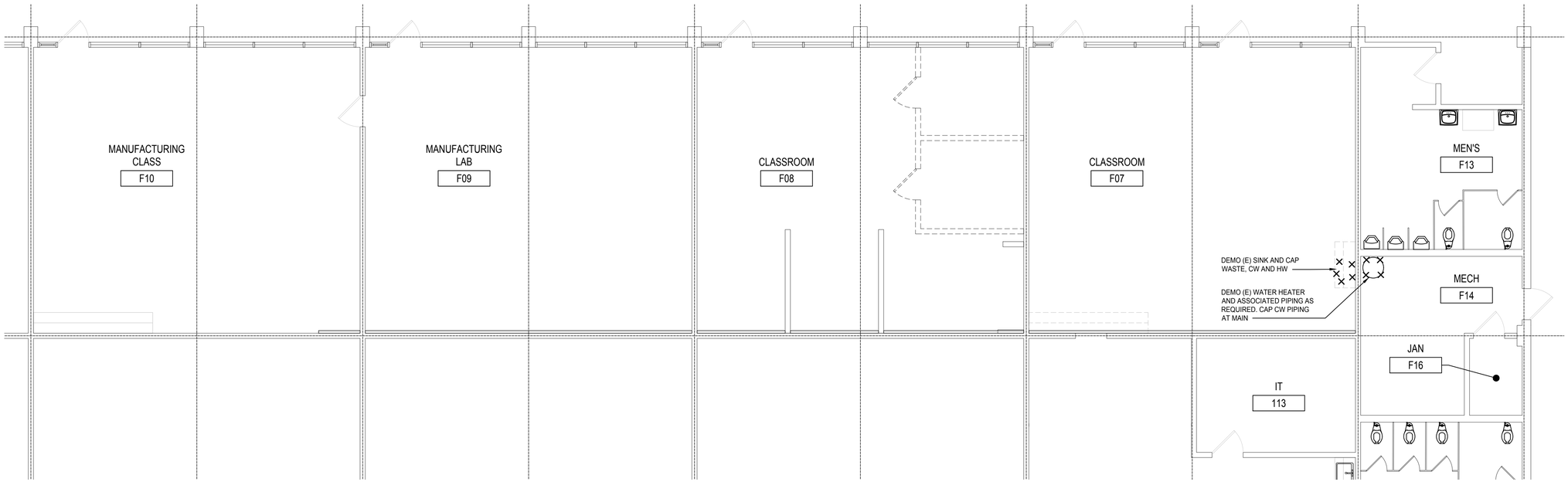
P0.2



OVERALL PLUMBING PLAN

SCALE: 3/32" = 1'-0"

2 / P1.1



PARTIAL DEMO PLUMBING & GAS PLAN

SCALE: 3/16" = 1'-0"

1 / P1.1

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KEY PLAN

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REGISTERED PROFESSIONAL ENGINEER
DAVID A. WESTON
No. M31220
MECHANICAL
STATE OF CALIFORNIA
RENEWAL DATE: 12/31/2023

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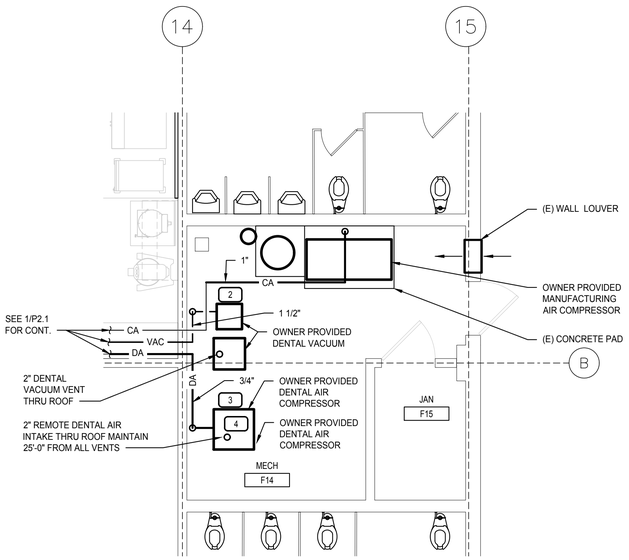
PLUMBING OVERALL PLAN & DEMO FLOOR PLAN

DATE	2022-07-24
PROJECT NO.	21-W04-01

P1.1



DENTAL PIPING KEYNOTES:

1. PROVIDE THE FOLLOWING:
   - 1/2" DA TERMINATE W/ 3/8" ANGLE VALVE.
   - 3/4" PVC VAC STUB WITH TEMP CAP.
   SEE DENTAL DRAWINGS FOR EXACT LOCATION.
2. 1 1/2" PVC VAC W/ TERMINATION FITTING FROM MAIN TRUNK LINE, VERIFY SIZE HEIGHT AND LOCATION WITH DENTAL EQUIPMENT.
3. 1" DA W/ BALL VALVE & TERMINATION FITTING FROM MAIN TRUNK LINE, VERIFY SIZE HEIGHT AND LOCATION WITH DENTAL EQUIPMENT.
4. 2" REMOTE EXHAUST VENT RISER FROM DENTAL EQUIPMENT THRU ROOF, SEE DENTAL DRAWINGS FOR EXACT LOCATION OF CONNECTION. 90 DEGREE ELBOWS ARE NOT ALLOWED.
5. 3/4" DRAIN FROM MANUFACTURING AIR COMPRESSOR (MCA).
6. 1 1/2" DRAIN FROM DENTAL VACUUM UNIT.
7. 3/4" DRAIN FROM DENTAL AIR COMPRESSOR (DA).

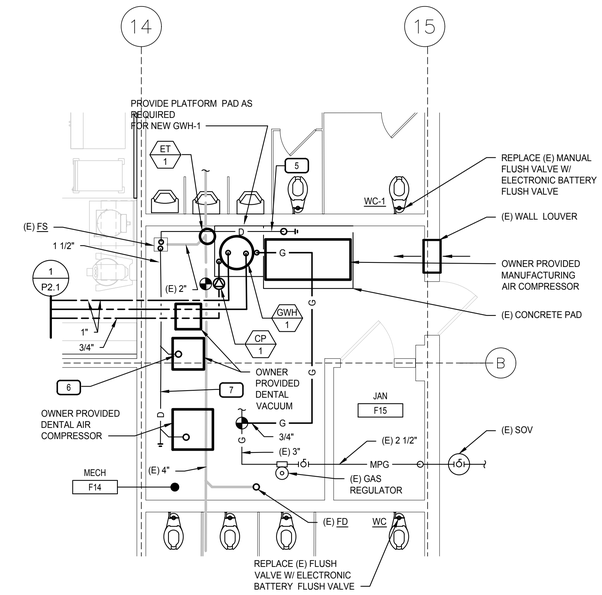
DENTAL PIPING GENERAL NOTES:

1. EXACT EQUIPMENT LOCATIONS MUST BE JOB SITE VERIFIED BY TONY VIGIL @ DESCO, INC. THE DENTAL EQUIPMENT PROVIDER.
2. CONTRACTOR SHALL FOLLOW MANUFACTURER'S TEMPLATES FOR EXACT REQUIREMENTS FOR ANY EQUIPMENT SUPPLIED BY DESCO, INC. CONTRACTOR SHALL CONSULT WITH TONY VIGIL @ DESCO, INC. THE DENTAL EQUIPMENT PROVIDER FOR ADDITIONAL INFORMATION.
3. THE COMPRESSED AIR AND AIR COMPRESSOR ARE A CATEGORY 3 DENTAL AIR SUPPLY SYSTEM.

ENLARGE DENTAL PIPING PLAN

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

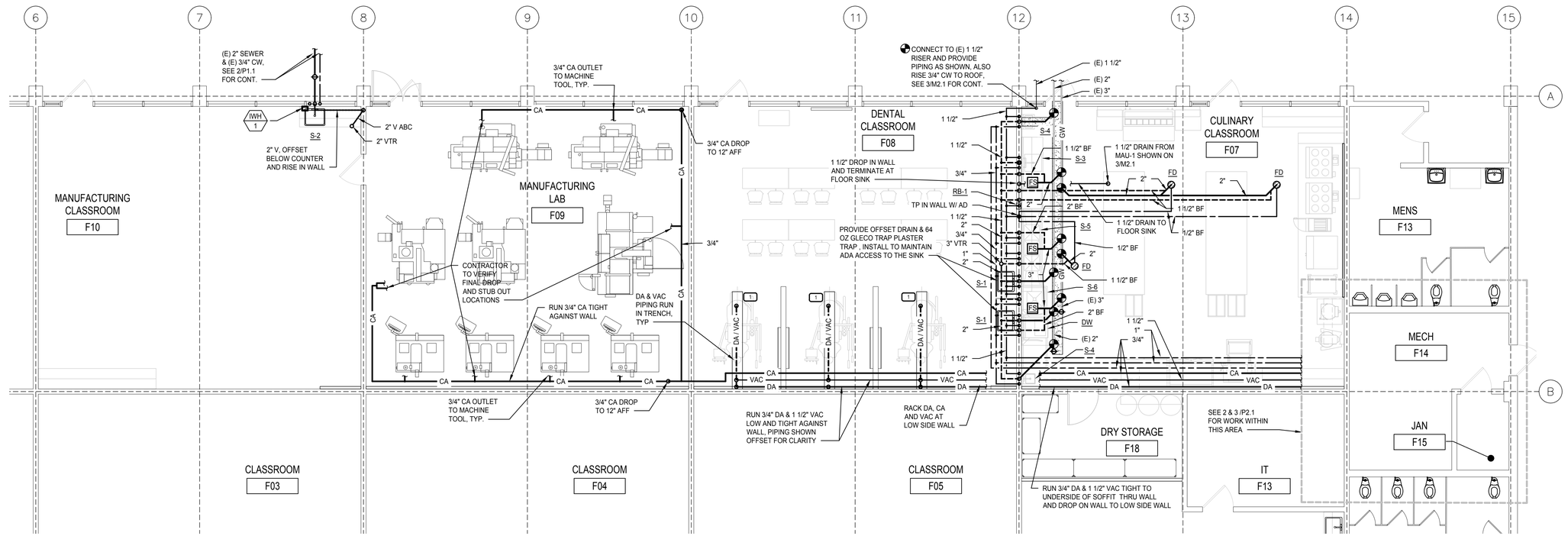
3 / P2.1



ENLARGE PLUMBING PLAN

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

2 / P2.1



ENLARGED PLUMBING FLOOR PLAN

SCALE: 3/16" = 1'-0"

1 / P2.1

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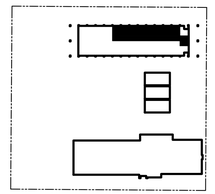

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PLUMBING FLOOR PLANS

DATE	2022-07-24
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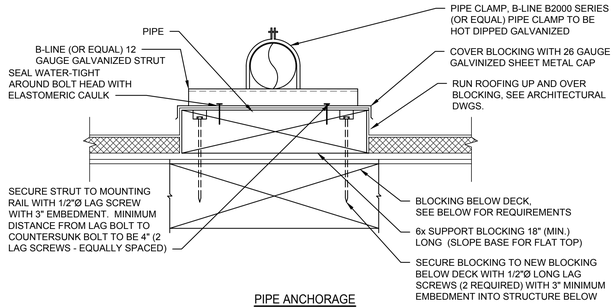
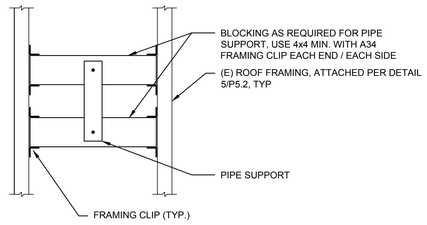
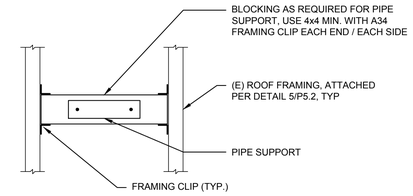
P2.1

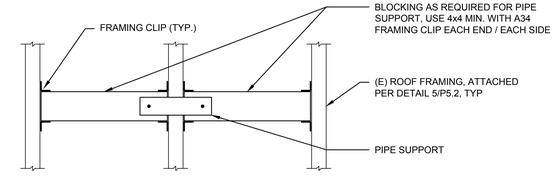


PIPE ANCHORAGE



PIPE SUPPORT BLOCKING PARALLEL TO FRAMING





PIPE SUPPORT BLOCKING PERPENDICULAR TO FRAMING

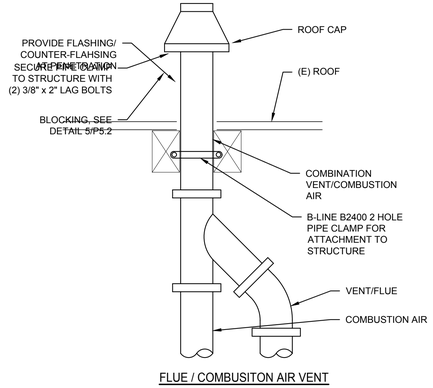
NOTES:

1. REMOVE AND REPLACE (E) ROOF SHEETING IN-INK AS REQUIRED TO ACCESS (E) FRAMING BELOW.

ROOFTOP PIPING ANCHORAGE DETAIL

NTS

3 / P5.1

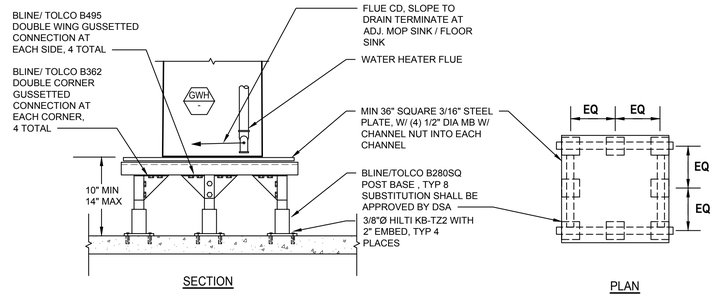


FLUE / COMBUSITON AIR VENT

WATER HEATER FLUE DETAIL

NTS

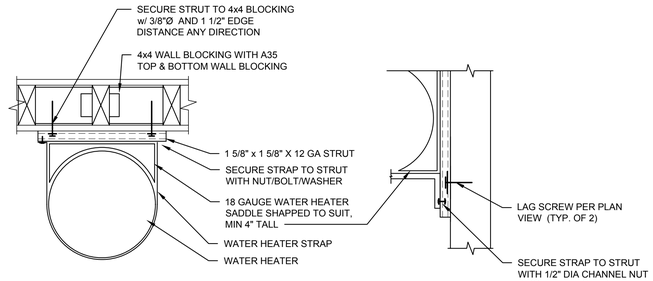
2 / P5.1



SECTION

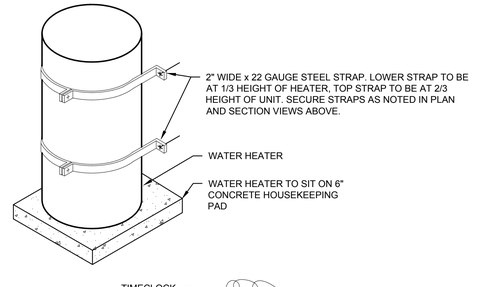
PLAN

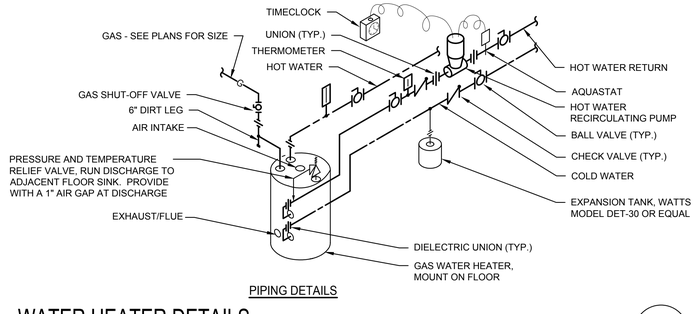
PLATFORM DETAIL



PLAN

ENLARGE PLAN





PIPING DETAILS

WATER HEATER DETAILS

NTS

1 / P5.1

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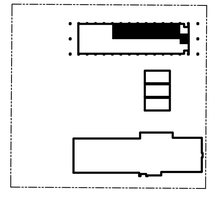

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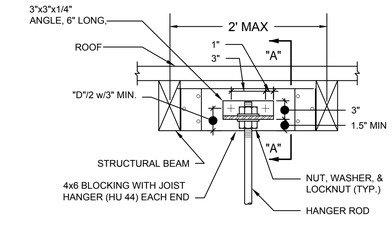
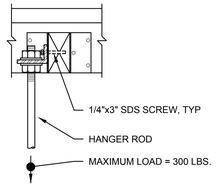
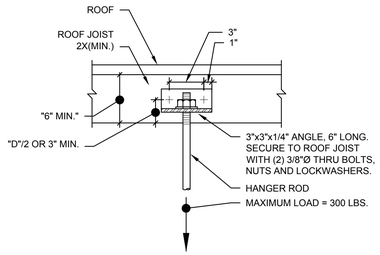
P5.1



SOLID SAWN



SECTION A-A



SOLID SAWN

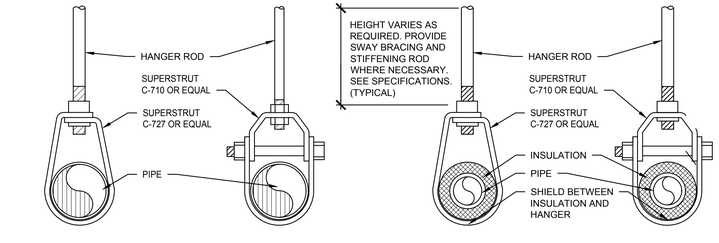
HANGER ROD SUPPORT DETAILS

NTS

5
P5.2

CLEVIS CLAMPS NOT USED FOR SEISMIC RESTRAINT

HANGER ROD SCHEDULE	
PIPE SIZE (Ø)	ROD SIZE
1/2" TO 4"	3/8"Ø



UNINSULATED COPPER PIPE | UNINSULATED PIPE | INSULATED COPPER PIPE | INSULATED PIPE

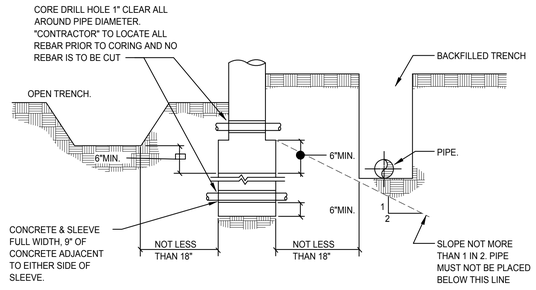
NOTES:

1. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR ALL 3" PIPE AND AND SMALLER WITH DESIGN IP OF 1.0.
2. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM TOP OF PIPE TO BOTTOM OF ATTACHMENT TO STRUCTURE.
3. ALL SUSPENDED PIPING, DUCTWORK, CONDUIT AND CABLE TRAYS SHALL BE PROVIDED WITH, SEISMIC SWAY BRACES IN ACCORDANCE WITH THE MASON SEISMIC RESTRAINT GUIDELINE, OPM-0043-13.
4. PIPE SIZES AND SPACING TO BE PER THE ABOVE SEISMIC RESTRAINT GUIDELINES. CONTRACTOR TO PREPARE & PROVIDE AT CONTRACTORS EXPENSE COPIES OF DETAILS USED TO INSPECTOR OF RECORD (IOR) AND ARCHITECT PRIOR TO INSTALLATION.
5. TRAPEZE SUPPORTS SHALL NOT BE USED. IF TRAPEZE SUPPORTS ARE TO BE USED, CONTRACTOR IS RESPONSIBLE FOR PREPARING, SUBMITTING AND OBTAINING APPROVED DRAWINGS PER LISTED OPM-0043-13. ALL COST WILL BE AT CONTRACTOR EXPENSE.

PIPE HANGER DETAILS

NTS

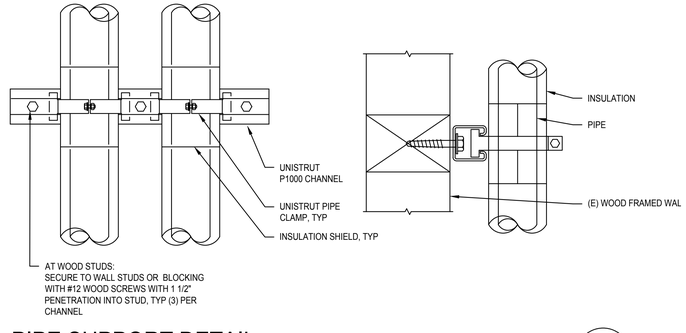
4
P5.2



RELATION OF PIPES & TRENCHES TO FOUNDATIONS

NTS

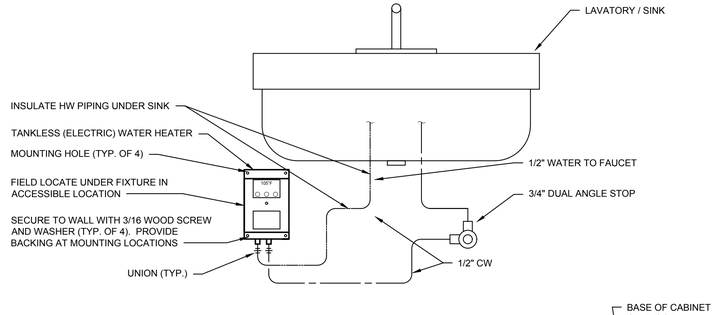
3
P5.2



PIPE SUPPORT DETAIL

NTS

2
P5.2



TANKLESS WATER HEATER DETAIL

NTS

1
P5.2

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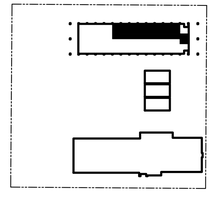

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No. M31220
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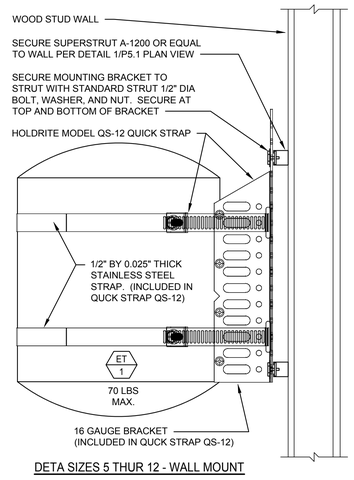
PROJECT NO.	21-W04-01

P5.2

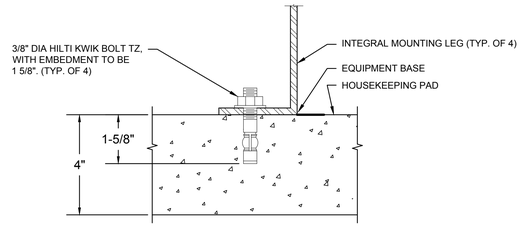


DETA SIZES 5 THUR 12 - WALL MOUNT

EXPANSION TANK MOUNTING DETAILS

NTS

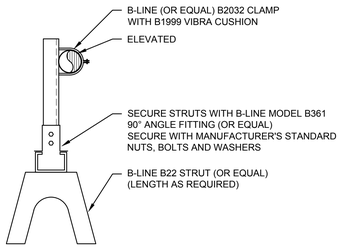
5 / P5.3

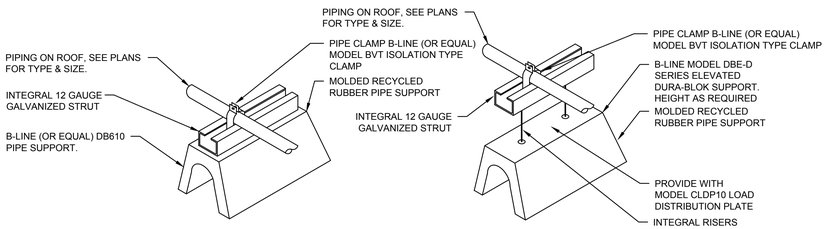


MEDICAL VACUUM PUMP/AIR COMPRESSOR MOUNTING

NTS

4 / P5.3





STANDARD SUPPORT

ELEVATED SUPPORTS

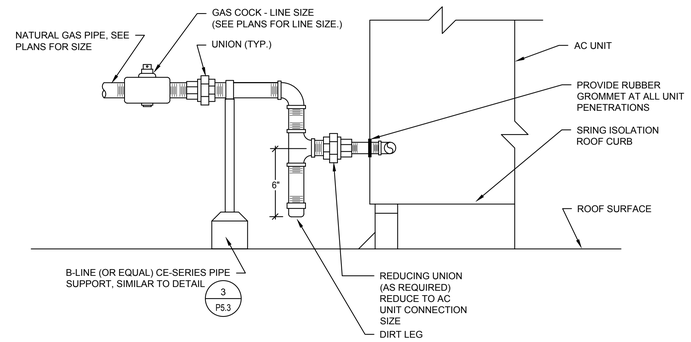
NOTES:

1. MAXIMUM SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0".

PIPE SUPPORT ON ROOF DETAIL

NTS

3 / P5.3



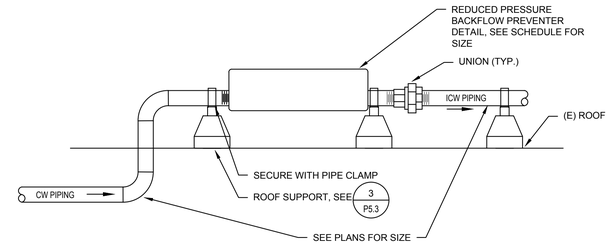
NOTES:

1. ALL EXPOSED GAS PIPING TO BE CLEANED, PRIMED, AND PAINTED (YELLOW).
2. FOR CLARITY, FLASHING NOT SHOWN. PROVIDE FLASHING FOR WATERTIGHT PENETRATIONS.

ROOF A/C GAS CONNECTION

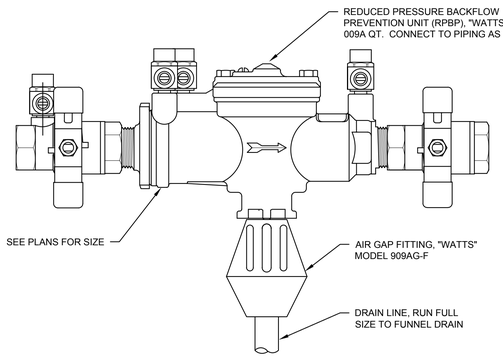
NTS

2 / P5.3



NOTES:

1. FOR CLARITY, FLASHING NOT SHOWN. PROVIDE FLASHING FOR WATERTIGHT PENETRATIONS.



REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NTS

1 / P5.3

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WESTON & ASSOCIATES #22-033

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PROJECT

CLASSROOM CONVERSIONS
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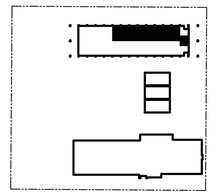
KEY PLAN



NORTH

REGISTERED PROFESSIONAL ENGINEER DAVID A. WESTON No. M31220 RENEWAL DATE: 12/31/2023 MECHANICAL STATE OF CALIFORNIA

FOR PLAN REVIEW ONLY
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE

PLUMBING DETAILS

DATE	2022-07-24
PROJECT NO.	21-W04-01

P5.3

Applicable Code: 2019 CBC 02/05/2020 Revised: 02/14/2020

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30.

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 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 manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

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

MP MD PP [E - Option 1: Detailed on the approved drawings with project specific notes and details.]

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

ELECTRICAL SYMBOL LIST

Symbol	Description
J	JUNCTION BOX - SIZE AS REQUIRED BY CODE
	DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER).
	GFCI DUPLEX CONVENIENCE OUTLET - NEMA 5-20R
	QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R
	GFCI QUAD CONVENIENCE OUTLET - NEMA 5-20R
	SPECIAL RECEPTACLE AS SHOWN ON PLANS
	EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE TO MATCH EQUIPMENT NAMEPLATE
	EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE
BT	BUCK-BOOST TRANSFORMER - REFER TO DRAWING FOR VOLTAGE/POWER REQUIREMENTS.
(2)	DATA OUTLET - +18" A.F.F. NUMBER IN PARENTHESIS INDICATES NUMBER OF DATA JACKS. OUTLET SHALL MATCH EXISTING ON SITE. PROVIDE STEEL SURFACE RACEWAY - WIREMOLD SERIES 2000 OR SIMILAR TO RUN CAT WIRE TO (E) IDF. COORDINATE EXACT ROUTE WITH ARCHITECT PRIOR TO ROUGH IN.
RC	
XX	FIRE ALARM HEAT DETECTOR - CEILING MOUNTED. "XX" INDICATE TEMPERATURE RATING.
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED. THE DEFAULT TYPE IS "PHOTOELECTRIC" INDICATED BY NO LETTER.
YY	FIRE ALARM AUDIO / VISUAL DEVICE, +80" A.F.F. DEFAULT AUDIO DEVICE IS A HORN. "YY" INDICATES STROBE CANDELA RATING.
RM	FIRE ALARM RELAY MODULE
MM	FIRE ALARM MONITOR MODULE
	CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
	FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
	CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
	EXISTING CONDUIT AND WIRING
	PANELBOARD - FLUSH MOUNTED
	TERMINAL CABINET
	SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
1	DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
1 / E-1	DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER

SYMBOL LIST NOTES:

1. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
2. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.
3. WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.

ELECTRICAL SHEET INDEX

ABBREVIATIONS

A	AMPERES	GND	GROUND
AC	ABOVE CEILING	IDF	INTERMEDIATE DISTRIBUTION FRAME
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
APPROX	APPROXIMATE	MIN.	MINIMUM
AWG	AMERICAN WIRE GAUGE	(N)	NEW
BKR	BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
C.	CONDUIT	QTY	QUANTITY
C.B.	CIRCUIT BREAKER	THW	INSULATED STRAND WIRE
CKT	CIRCUIT	THHN	NYLON JACKETED WIRE
C.O.	CONDUIT ONLY, WITH PULL WIRE	UG	UNDERGROUND
(E)	EXISTING	UL	UNDERWRITERS LABORATORY
(F)	FUTURE	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHER PROTECTED
GA.	GAUGE	XHHW	CROSS-LINKED POLYETHYLENE WIRE INSULATED

APPROVALS

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PROJECT #: 22133.21

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PROJECT

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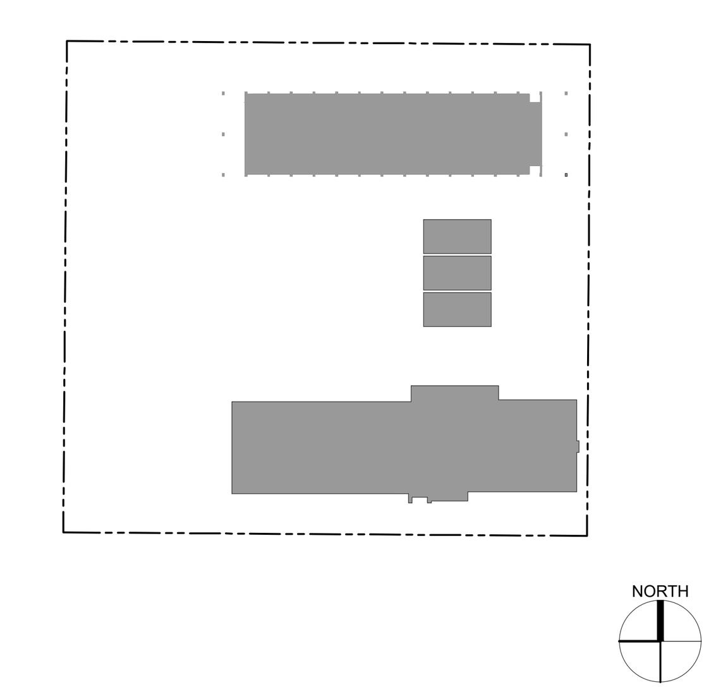
KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-23
ELECTRICAL
STATE OF CALIFORNIA

02/13/2023

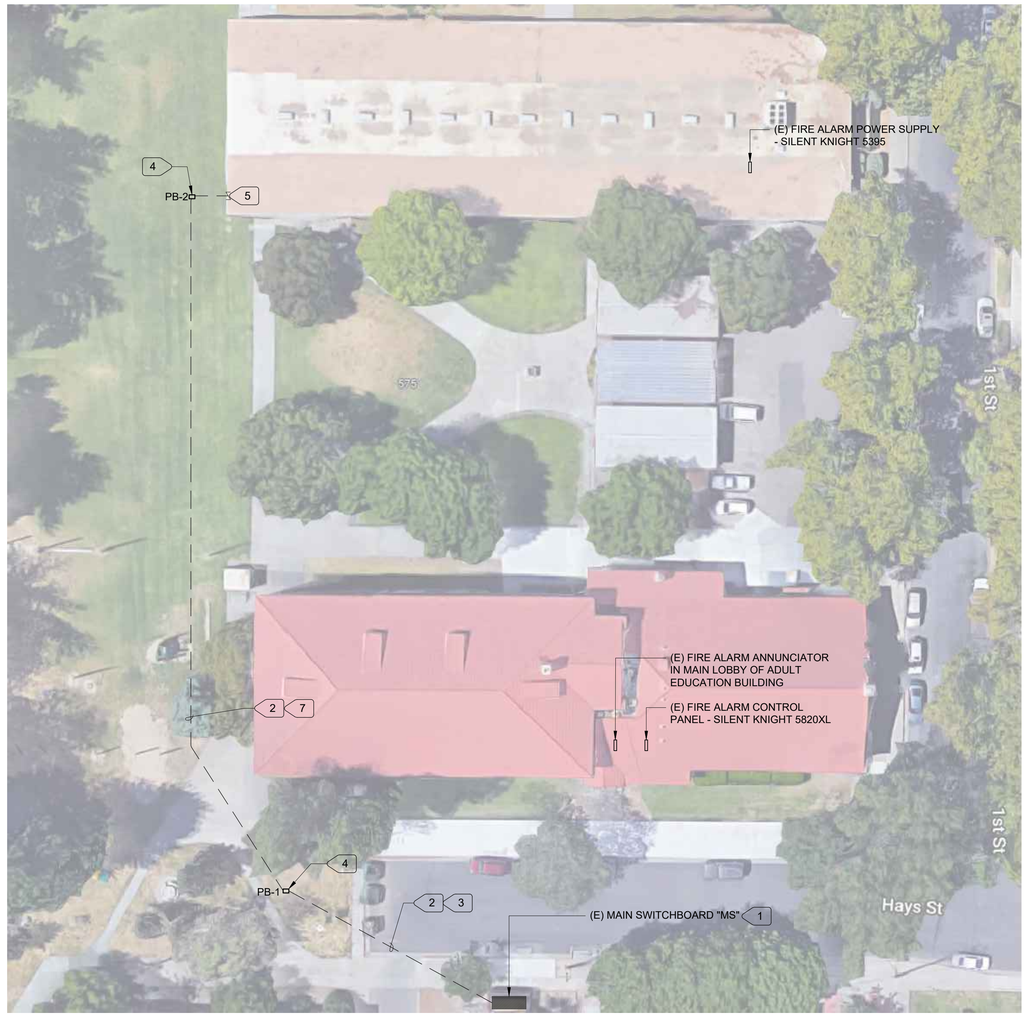
NO.	REVISION DESCRIPTION	DATE

COVER SHEET - ELECTRICAL

DATE 2022-07-29
PROJECT NO. 21-W04-01

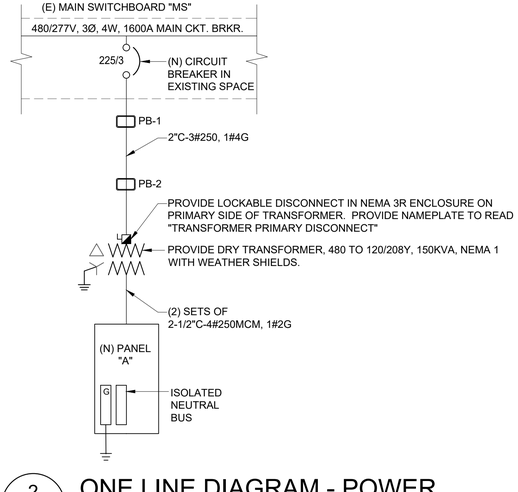
E0.1

Feb. 12, 2023 – 11:29am, / sgilsic



1 E1.1 SITE PLAN AND ELEVATION - ELECTRICAL

N.T.S.



2 E1.1 ONE LINE DIAGRAM - POWER

N.T.S.

NUMBERED NOTES:

1. PROVIDE (N) CIRCUIT BREAKER IN (E) SPACE. REFER TO ONE LINE DIAGRAM - POWER.
2. REFER TO ONE LINE DIAGRAM - POWER.
3. DIRECTIONAL BORE.
4. PROVIDE N40 PULLBOX, STEEL LID WITH HOLD-DOWN BOLTS AND (2) EXTENSION - SEE 3/E5.1.
5. REFER TO BUILDING PHOTO BELOW FOR CONTIUNATION.
6. BRING (N) FEEDER UP COLUMN, AND CONTINUE RUN SIMILAR TO (E) CONDUITS. PROVIDE SUPPORT SIMILAR TO (E) CONDUIT SUPPORT.
7. TRENCH PER 4/E5.1.

NEW PANEL "A" SCHEDULE

POWER SOURCE: MAIN SWITCHBOARD VIA TRANSFORMER "TR" — LOCATION: SEE PLAN
SYSTEM: NORMAL BRANCH

TYPE: — BUS: 600 AMPS — MAIN BKR 500A — VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES — MOUNTING: SURFACE PANEL TYPE NEMA 1 — REMARKS: 10k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
RCPT - 104	0.8	20/1	1	A	2		7.0	
RCPT - 106	0.8	20/1	3	B	4	60/3	7.0	RANGE
CNC MILL	3.2	40/2	5		C 6		7.0	
	3.2		7	A	8		7.0	
RCPT - 106	0.8	20/1	9	B	10	60/3	7.0	RANGE
ROUTER	1.4	20/1	11		C 12		7.0	
ROUTER	1.4	20/1	13	A	14		7.2	
ROUTER	1.4	20/1	15	B	16	75/3	7.2	OVEN
ROUTER	1.4	20/1	17		C 18		7.2	
SPARE		20/1	19	A	20	20/1	1.4	PROOFING CABINET
CNC MILL	3.2	40/2	21	B	22	20/2	5.15	RECEPTACLE PIZZA OVEN
	3.2		23		C 24		5.15	
CNC MILL	3.2	40/2	25	A	26		1.1	
	3.2		27	B	28	20/3	1.1	MIXER
SPARE		20/1	29		C 30		1.1	
CNC LATHE	3.2	40/2	31	A	32	20/2	1.1	DOUGH SHEETER
	3.2		33	B	34		1.1	
CNC LATHE	3.2	40/2	35		C 36	20/1	0.6	RECEPT REFRIGERATOR
	3.2		37	A	38	20/1	1.4	RECEPT FREEZER
MANUFACTURING AIR	2.4	40/2	39	B	40	20/1	1.2	DISHWASHER
COMPRESSOR	2.4		41		C 42	20/1	1.5	ICE MACHINE
DENTAL CHAIR	1.0	20/1	43	A	44	20/1	0.6	RECEPT PREP TABLE
DENTAL CHAIR	1.0	20/1	45	B	46		0.7	
DENTAL CHAIR	1.0	20/1	47		C 48	20/3	0.7	KEF-1
	1.4		49	A	50		0.7	
MAU-1	1.4	20/3	51	B	52	20/1		LIGHT EXHAUST HOOD
	1.4		53		C 54	20/1	0.2	KEF-2
COCOON	0.5	20/1	55	A	56	20/1	0.4	RECEPT MEAT SLICER
DENTAL CAMERA	0.5	20/1	57	B	58	20/1	0.7	RECEPT MIXER
DENTAL VACUUM	1.1	15/2	59		C 60	20/1	1.5	RECEPT MIXER
	1.1		61	A	62	20/1	1.8	RCPT TOP STOVE BURNER
DENTAL AUTCLAVE	1.5	20/1	63	B	64	20/1	1.8	RCPT TOP STOVE BURNER
DENTAL AIR COMPRESSOR	0.5	20/2	65		C 66	20/1	1.8	RCPT TOP STOVE BURNER
	0.5		67	A	68	20/1	1.8	RCPT TOP STOVE BURNER
XRAY	1.2	20/1	69	B	70	20/1	0.8	RCPT FOOD PROCESSOR
XRAY	1.2	20/1	71		C 72	20/1	1.7	RECEPT MICROWAVE
DENTAL AUTCLAVE	1.5	20/1	73	A	74	20/1	1.8	RECEPT TOASTER
GWH-1/CP-1	0.3	20/1	75	B	76	20/1 [1]	0.5	FIRE SUPPRESSION SYST.
GAS SHUTDOWN	0.3	20/1	77		C 78	20/1	0.5	SHUNT TRIP POWER
IWH-1	3.1	40/2	79	A	80	PFB		SPACE
	3.1		81	B	82	PFB		SPACE
SPACE		PFB	83		C 84	PFB		SPACE

NOTES:
[1] PROVIDE WITH RED HANDEL AND LOCKING DEVICE

CONNECTED LOAD

PHASE A=	57.3	kVA
PHASE B=	58.2	kVA
PHASE C=	56.1	kVA
TOTAL =	171.6	kVA
TOTAL =	476.7	Amperes

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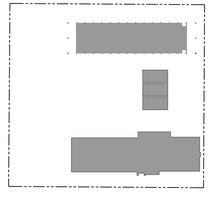


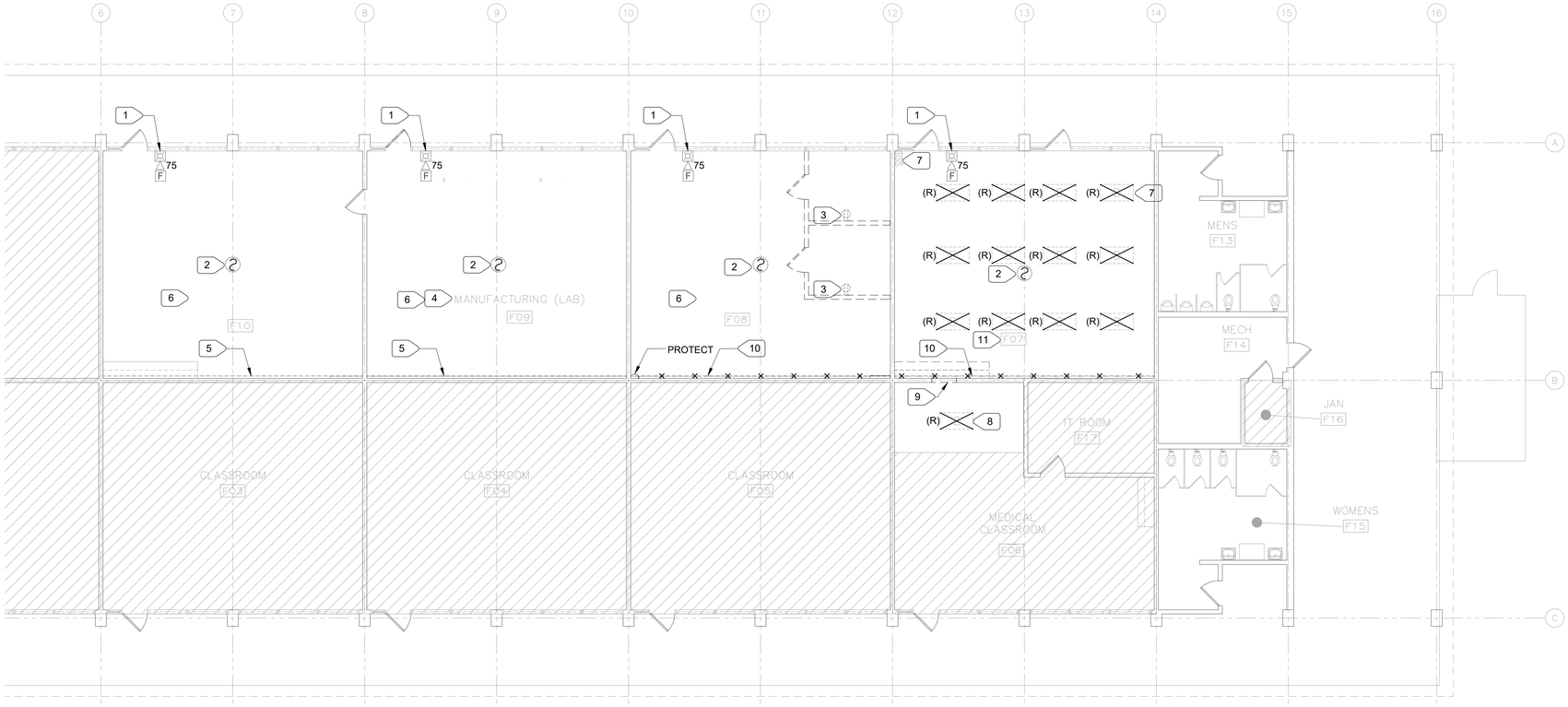
REGISTERED PROFESSIONAL ENGINEER JESSE U. BASTIAN No. E20229 Exp. 03-31-23 ELECTRICAL STATE OF CALIFORNIA
02/13/2023

NO.	REVISION DESCRIPTION	DATE

SITE PLAN - ELECTRICAL
ONE LINE DIAGRAM, PANEL SCHEDULE

DATE	2022-07-29
PROJECT NO.	21-W04-01

E1.1



1 PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

E2.0

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

NUMBERED NOTES:

1. CAREFULLY DISCONNECT HORN/STROBE AND PREPARE TO RELOCATE AS SHOWN ON FLOOR PLAN - FIRE ALARM. PROTECT (E) FIRE ALARM WIRING. PROTECT (E) FIRE ALARM PULL STATION IN PLACE.
2. CAREFULLY DISCONNECT SMOKE DETECTOR AND PREPARE TO RELOCATE AS SHOWN ON FLOOR PLAN - FIRE ALARM. PROTECT (E) FIRE ALARM WIRING.
3. DISCONNECT RECEPTACLE. REMOVE WIRING BACK TO LAST REMAINING RECEPTACLE. INSURE CONTINUITY OF POWER CIRCUIT.
4. DISCONNECT AND REMOVE (E) SURFACE MOUNTED RECEPTACLES AND ASSOCIATED WIREMOLD. PROTECT (E) FLUSH MOUNTED RECEPTACLES. INSURE REMAINING RECEPTACLES CIRCUITS CONTINUITY.
5. PROTECT (E) SURFACE DATA RACEWAY, LOCATED JUST ABOVE FLOOR.
6. PROTECT (E) DATA, INTERCOM, AND INTRUSION ALARM EQUIPMENT.
7. REMOVE (E) LIGHT FIXTURE AND ASSOCIATED LIGHT SWITCHES. PROTECT LIGHTING POWER CIRCUIT FOR REUSE. TYPICAL IN CLASSROOM F07.
8. REMOVE (E) LIGHT FIXTURE. RECONNECT (E) LIGHTING CIRCUIT IN CLASSROOM F06 SUCH THAT REMAINING LIGHT FIXTURES WORK CORRECTLY.
9. WALL DEMOLITION FOR (N) DOOR. REROUTE (E) CONDUIT/CONDUCTORS AROUND (N) WALL OPENING.
10. CAREFULLY DISCONNECT DATA CABLING RUNNING IN SURFACE RACEWAY JUST ABOVE FLOOR AND PROTECT FOR REUSE. REMOVE SURFACE RACEWAY COMPLETELY IN CLASSROOM F07, AND PARTIALLY IN CLASSROOM F08.
11. REMOVE ALL POWER RECEPTACES AND DATA OUTLET FROM THIS CLASSROOM - EXCEPT WIRELESS ACCESS POINT. REMOVE POWER WIRING TO LAST REMAINING OUTLET - INSURE CIRCUIT CONTINUITY. REMOVE DATA WIRING BACK TO (E) IDF. PROTECT (E) INTRUSION ALARM AND CLOCK/INTERCOM.

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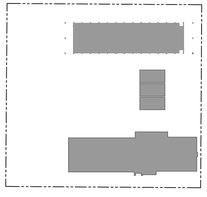


NORTH

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-23
ELECTRICAL
STATE OF CALIFORNIA

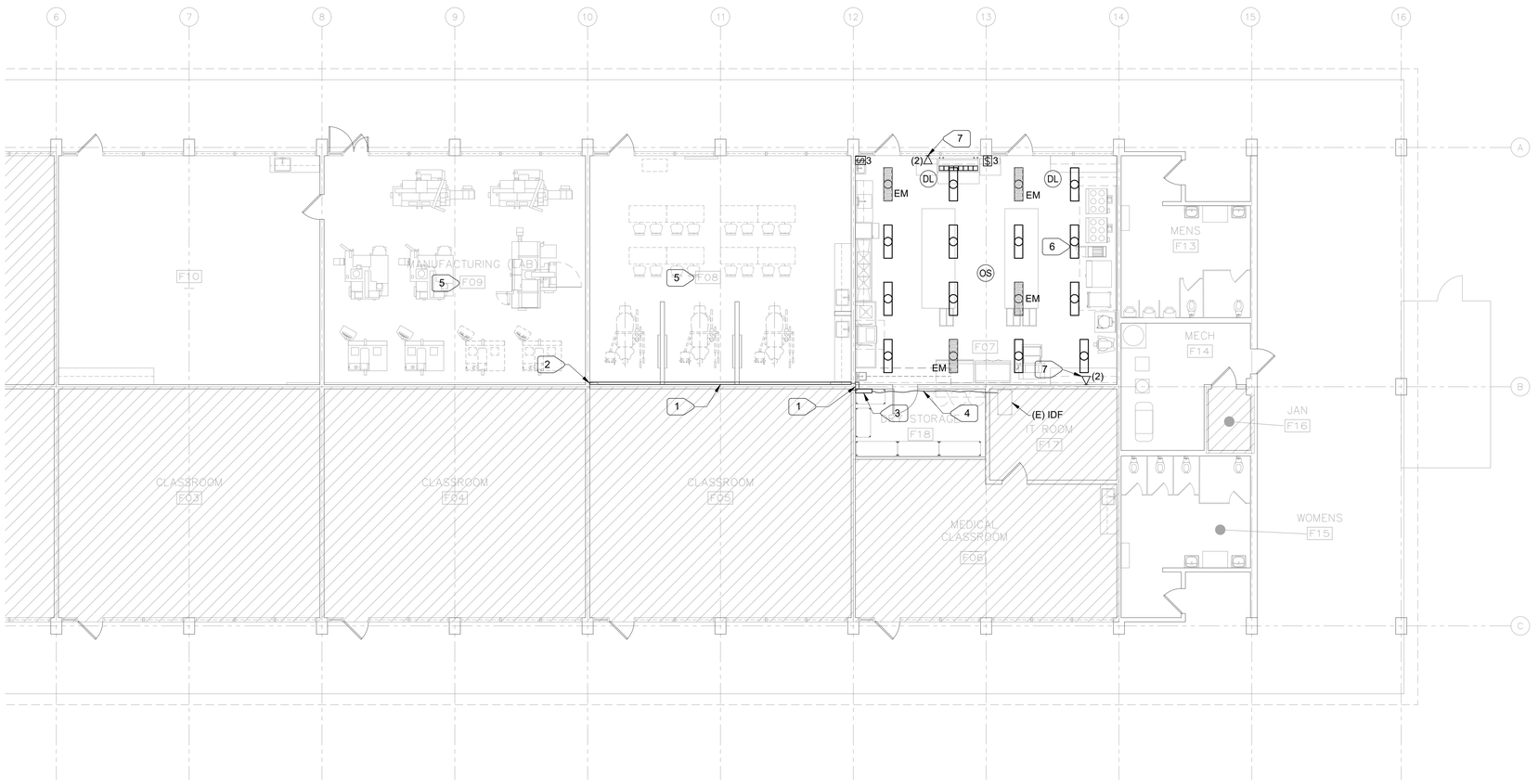
02/13/2023

NO.	REVISION DESCRIPTION	DATE

PARTIAL FLOOR PLAN - DEMOLITION

DATE	2022-07-29
PROJECT NO.	21-W04-01

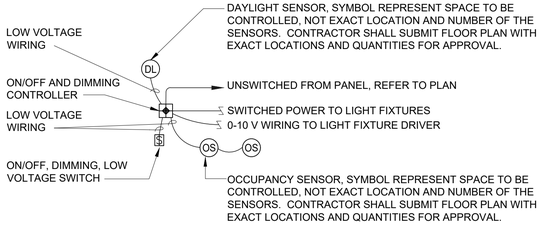
E2.0



1 PARTIAL FLOOR PLAN - LIGHTING AND SIGNAL

E2.1

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



LIGHTING CONTROL DIAGRAM

GENERAL NOTES:

1. CONTRACTOR SHALL VISIT SITE BEFORE BID AND REVIEW EXISTING CONDITIONS - NUMBER OF DATA CABLES TO BE REROUTED/EXTENDED.
2. PROVIDE ALL PARTS AND PIECES NECESSARY TO PROVIDE ENCLOSED RACEWAY FOR DATA AND TO CONNECT TO (E) DATA RACEWAY IN ROOM F08.
3. ALL NEW DATA EQUIPMENT SHALL MATCH EXISTING - COORDINATE WITH OWNER IT DEPARTMENT BEFORE ORDERING.
4. COORDINATE EXACT LOCATION OF NEW DATA OUTLETS IN F07 WITH ARCHITECT BEFORE ROUGH IN.

NUMBERED NOTES:

1. PROVIDE STEEL SURFACE RACEWAY, WIREMOLD SERIES 4000 OR SIMILAR. MOUNT HIGH ON WALL JUST BELOW CEILING. RUN (E) DATA CABLING (SEE SHEET E2.0, NUMBERED NOTE 10) THROUGH (N) RACEWAY.
2. PROVIDE SLEEVE CONDUITS THROUGH WALL; RUN (N) RACEWAY, WIREMOLD SERIES 4000 VERTICALLY DOWN TO (E) SALVAGED DATA RACEWAY (SEE SHEET E2.0, NUMBERED NOTE 10). TERMINATE (N) RACEWAY TO (E) RACEWAY.
3. PROVIDE (2) (N) 48 PORT DATA PATCH PANELS. TERMINATE (E) DATA CABLES AT THIS PATCH PANEL. MOUNT PATCH PANELS (PROVIDE WALL MOUNT BRACKETS HOFFMAN HB2) HIGH ON WALL. WIGHT OF PATCH PANELS AND BRACKET 11.92lb.
4. PROVIDE (N) DATA CABLES FROM (N) PATCH PANELS TO (E) IDF. (N) CABLES TO MATCH (E) DATA CABLES. RUN (N) DATA CABLING HIGH ON WALL SUPPORTED BY J-HOOKS. PROVIDE J-HOOK MAX. 12" FROM WALLS AND MAX. 36" BETWEEN. NUMBER OF (N) CABLES SHALL MATCH (E) DATA CABLES.
5. REROUTE (E) DATA CABLES IN THIS CLASSROOM TO ADJUST TO (N) DATA RACEWAY. PROVIDE ADDITIONAL SURFACE RACEWAY AS NECESSARY.
6. SEE 6/E5.1 FOR INSTALLATION, TYPICAL FOR LIGHT FIXTURES.
7. PROVIDE (2) CAT6 CABLES FROM DATA OUTLET TO IDF. COORDINATE EXACT LOCATION WITH ARCHITECT BEFORE ROUGH IN.

APPROVALS

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Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 22133.21

OWNER

Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
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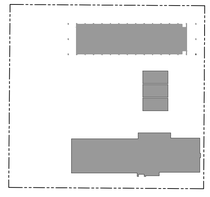
KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-23
ELECTRICAL
STATE OF CALIFORNIA

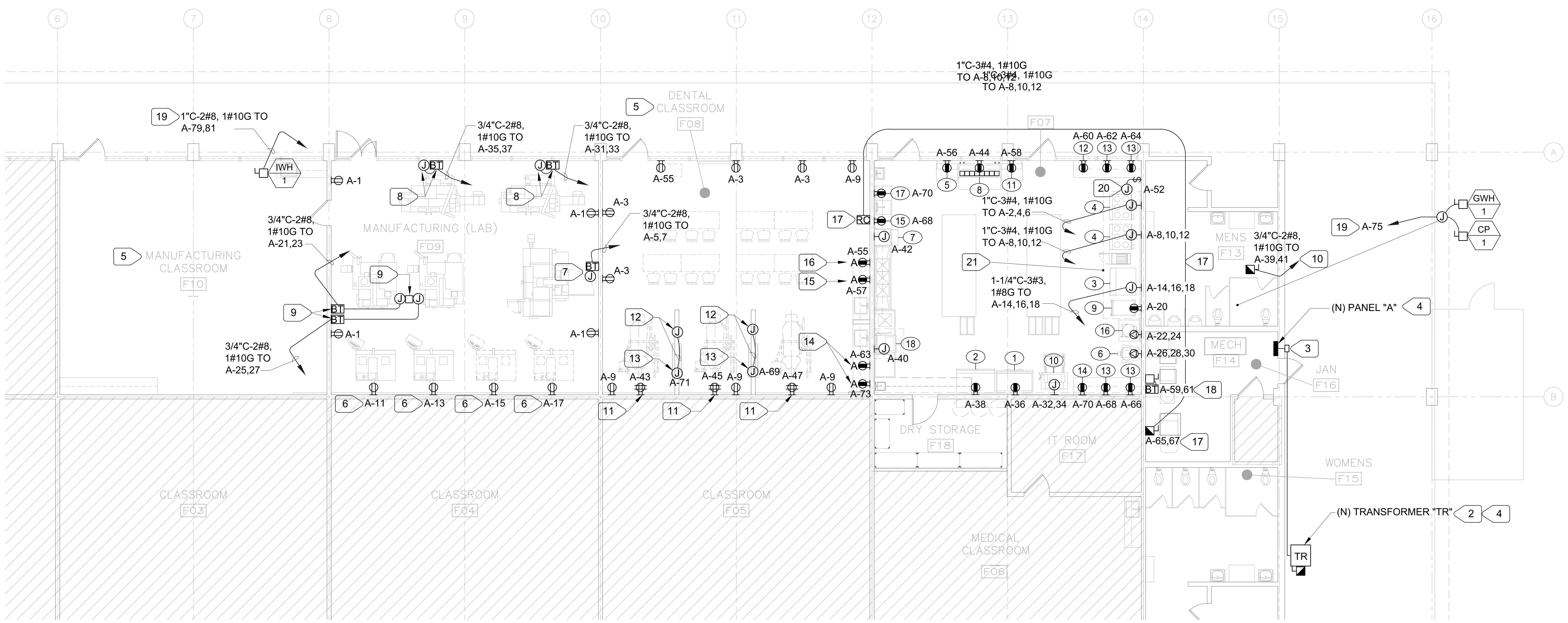
02/13/2023

NO.	REVISION DESCRIPTION	DATE

PARTIAL FLOOR PLAN - LIGHTING AND SIGNAL

DATE	2022-07-29
PROJECT NO.	21-W04-01

E2.1



1 PARTIAL FLOOR PLAN - POWER

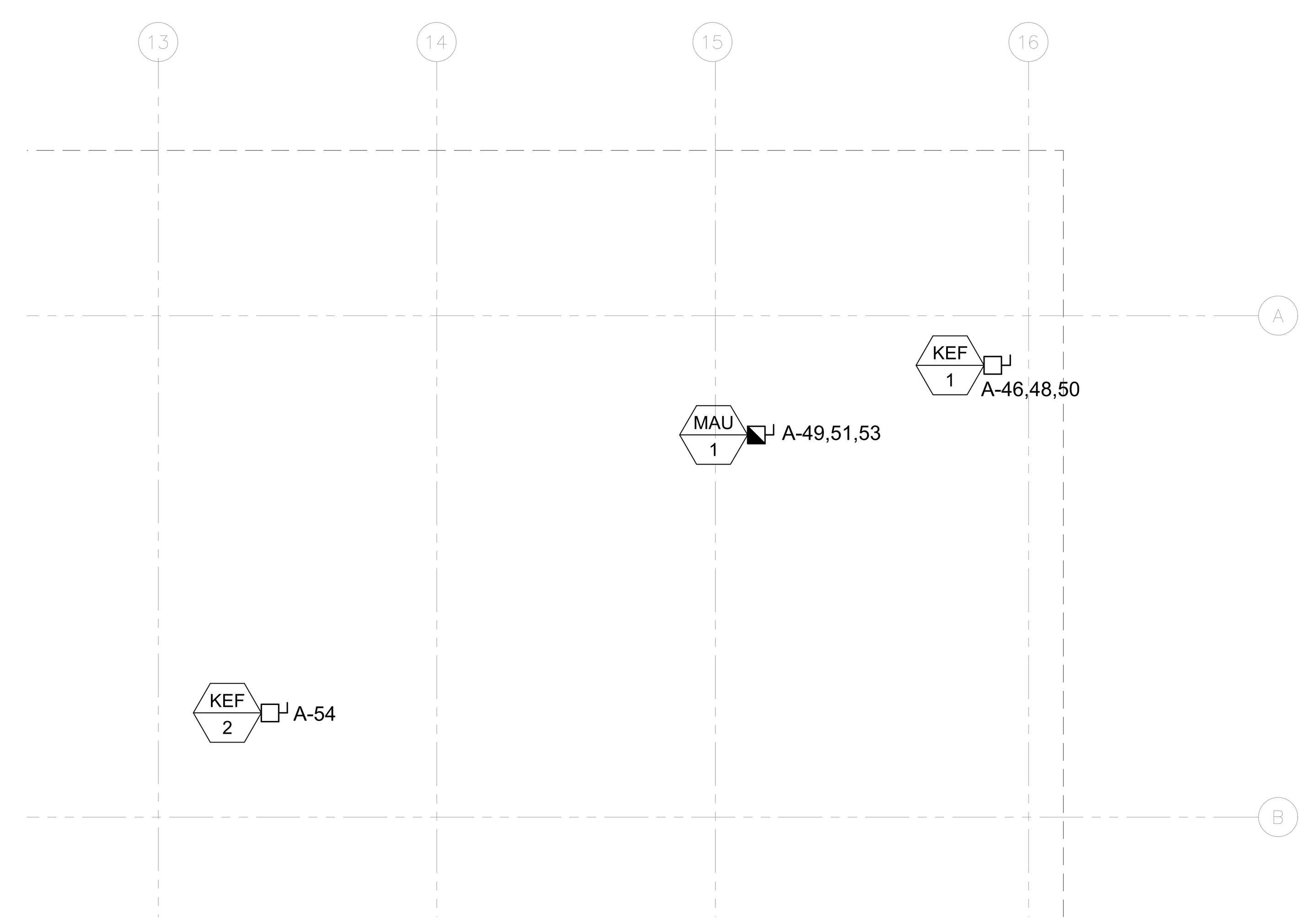
E2.2

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

Item #	Description	Qty	Manufacturer	Model	Power (kVA)	Amps (A)	Volts (V)	Phase	Plug Provided	Notes
1	2-Door Refrigerator	1	Beverage Air	RB49HC-1S	0.6	5.4	120	1	NEMA 5-15P	
2	2-Door Freezer	1	Entree	CF2	1.4	12.0	120	1	NEMA 5-15P	
3	Oven	1	Doyon	JA12SL	21.5	59.7	208	3	HARDWIRE	
4	Range	2	Imperial	IR-6-E-C	20.880	58.0	208	3	HARDWIRE	
5	Meat Slicer	1	Bizerba	GSP V2-150 GSPHV	0.396	3.3	120	1	NEMA 5-15P	Countertop
6	Planetary Mixer	1	Globe	SP40		12.0	240	3		
7	Ice Machine	1	Manitowoc	IDT0620A-161 Indigo NXT	1.464	12.2	120	1	HARDWIRE	
8	Prep Table	1	Beverage Air	SPE60HC-16C	0.648	5.4	120	1	NEMA 5-15P	
9	Proofing Cabinet	1	Serv-Ware	SC1836HPI	1.440	12.0	120	1	NEMA 5-15P	
10	Dough Sheeter	1	AMPTO	CS-500	2.238	6.2	208	1	HARDWIRE	(2) 1-1/2HP Motors
11	Planetary Mixer	1	Globe	SP20	0.720	6.0	120	1	NEMA 5-15P	Countertop
12	Planetary Mixer	1	Serv-Ware	PM30-PTO	1.492	12.4	120	1	NEMA 5-15P	
13	Induction Table Top Stove Burners	4	Vollrath	59300	1.800	15.0	120	1	NEMA 5-15P	Countertop
14	Food Processor	1	Robot Coupe	R2N	0.840	7.0	120	1	NEMA 5-15P	Countertop
15	Microwave Oven	1	Amana	HDC1015	1.728	14.4	120	1	NEMA 5-15P	Countertop
16	Pizza Oven	1	TurboChef	Fire FRE-9600-1	3.700	10.3	208	1	NEMA 6-30P	Countertop
17	Toaster	1	Waring	CTS1000	1.800	15.0	120	1	NEMA 5-15P	Countertop
18	Dishwasher	1	Jackson WWS	Conserver XL-E	1.200	10.0	120	1	HARDWIRE	

NUMBERED NOTES:

1. REFER TO SHEET E1.1 FOR CONDUIT RUN.
2. INSTALL TRANSFORMER PER 1/E0.1. REFER TO ONE LINE DIAGRAM POWER FOR TRANSFORMER REQUIREMENTS.
3. SEE 7/E5.1.
4. COORDINATE EXACT LOCATION WITH THE ARCHITECT BEFORE ROUGH IN. SEE 2/E5.1 FOR INSTALLATION.
5. NO ADDITIONAL POWER IN THIS SPACE.
6. FOR ROUTER MILL. COORDINATE EXACT INSTALLATION HEIGHT WITH THE ARCHITECT BEFORE ROUGH IN.
7. FOR CNC MILL. PROVIDE BUCK-BOOST TRANSFORMER, 1kVA, 208 TO 220V. RUN 2#8, 1#10G IN STEEL FLEX TO THE MILL CONNECTORS. PROVIDE SUPPORT FOR FLEX PER CEC. COORDINATE EXACT LOCATION WITH THE ARCHITECT BEFORE ROUGH IN.
8. FOR CNC LATE. PROVIDE BUCK-BOOST TRANSFORMER, 1kVA, 208 TO 220V. RUN 2#8, 1#10G IN STEEL FLEX TO THE MILL CONNECTORS. PROVIDE SUPPORT FOR FLEX PER CEC. COORDINATE EXACT LOCATION WITH THE ARCHITECT BEFORE ROUGH IN.
9. FOR CNC MILL. PROVIDE BUCK-BOOST TRANSFORMER, 1kVA, 208 TO 220V, MOUNT ON WALL AS DIRECTED BY ARCHITECT. RUN 2#4, 1#10G IN STEEL SURFACE RACEWAY UP WALL, THEN ON CEILING TO POWER POLE. INSTALL POWER POLE PER 5/E0.1. RUN 2#8, 1#10G THROUGH POWER POLE TO EACH CNC MILL. FROM POWER POLE PROVIDE STEEL FLEX TO THE MILL CONNECTORS. COORDINATE EXACT LOCATION WITH THE ARCHITECT BEFORE ROUGH IN.
10. FOR MANUFACTURING AIR COMPRESSOR. RUN 2#8, 1#10G IN STEEL FLEX TO COMPRESSOR CONNECTORS. PROVIDE SUPPORT FOR FLEX PER CEC. COORDINATE EXACT LOCATION WITH THE ARCHITECT BEFORE ROUGH IN.
11. FOR DENTAL CHAIR.
12. FOR X-RAY CONTROL PANEL. PROVIDE 1" NONMETALLIC CONDUIT BETWEEN LOCATION OF X-RAY AND J-BOX FOR CONTROL PANEL FOR CONTROL WIRING INSTALLATION PER X-RAY INSTALLATION INSTRUCTION. COORDINATE EXACT LOCATION AND HEIGHT BEFORE ROUGH IN.
13. FOR X-RAY. INSTALL J-BOX IN OPENING, PER X-RAY INSTALLATION INSTRUCTION. COORDINATE EXACT LOCATION AND HEIGHT BEFORE ROUGH IN.
14. FOR AUTOCLAVE.
15. FOR CHARGING CAMERA.
16. FOR CHARGING HAND HELD X-RAY (COCOON).
17. FOR DENTAL AIR COMPRESSOR. PROVIDE 1/2"-3#14 BETWEEN COMPRESSOR AND REMOTE PANEL. EXACT LOCATION SHALL BE COORDINATED WITH THE ARCHITECT BEFORE ROUGH IN.
18. FOR DENTAL VACUUM. PROVIDE BUCK-BOOST TRANSFORMER, 1kVA, 208 TO 230V. EXACT LOCATION SHALL BE COORDINATED WITH THE ARCHITECT BEFORE ROUGH IN.
19. COORDINATE WITH PLUMBING BEFORE ROUGH IN.
20. KITCHEN HOOD LIGHTS, PROVIDE SWITCH AS DIRECTED BY KITCHEN CONTRACTOR.
21. ALL POWER UNDER HOOD SHALL BE TURNED OFF UPON FIRE SUPPRESSION SYSTEM ACTIVATION. SEE DIAGRAM 2/E4.1.



2 PARTIAL ROOF PLAN - POWER

E2.2

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

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PROJECT #: 22133.21

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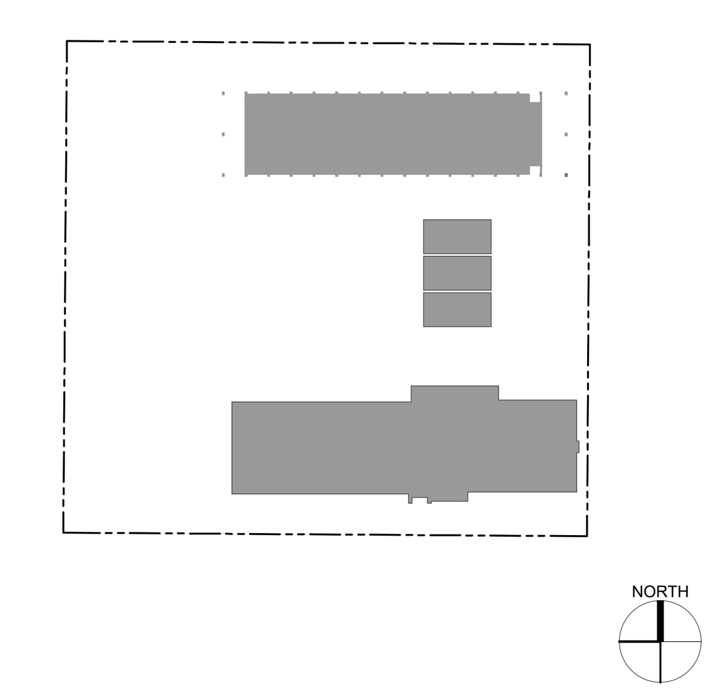


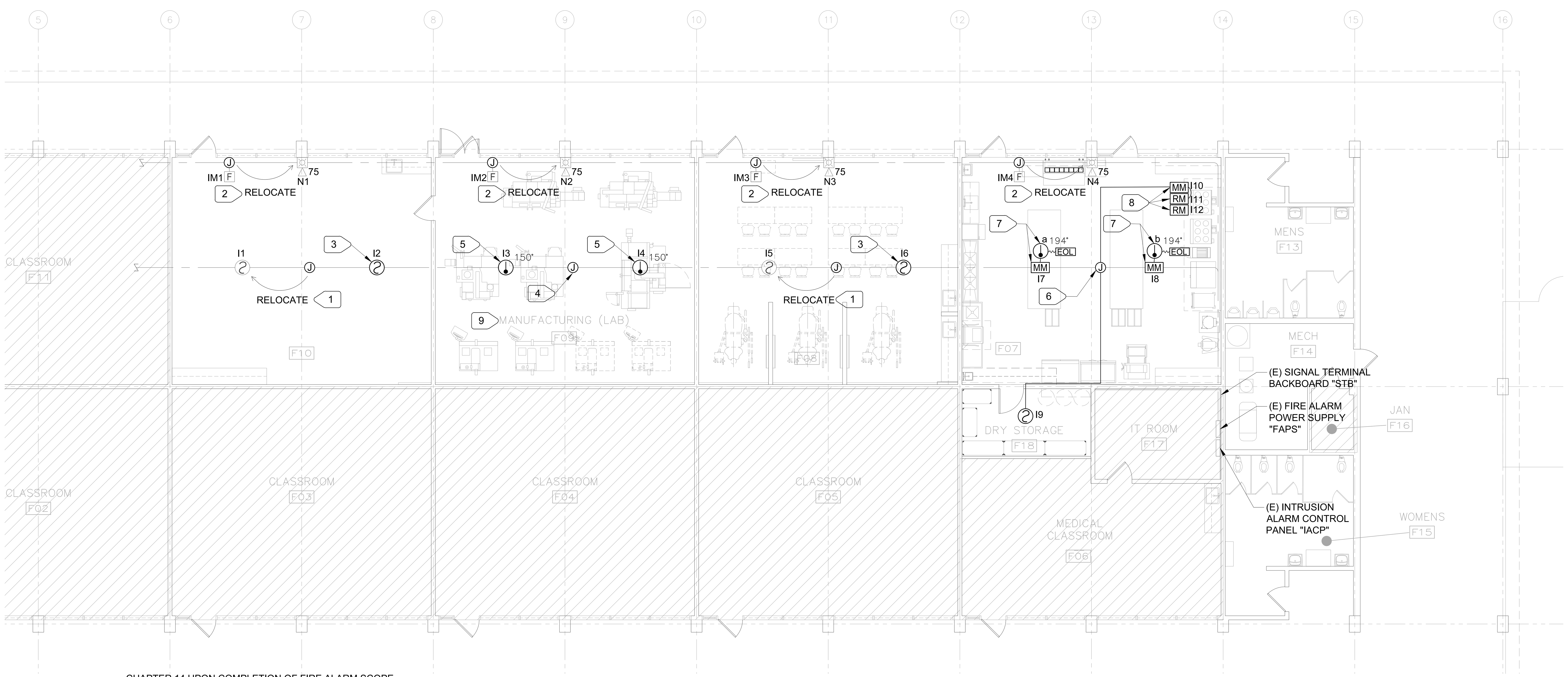
02/13/2023

NO.	REVISION DESCRIPTION	DATE

PARTIAL FLOOR PLAN - POWER

DATE 2022-07-29
PROJECT NO. 21-W04-01

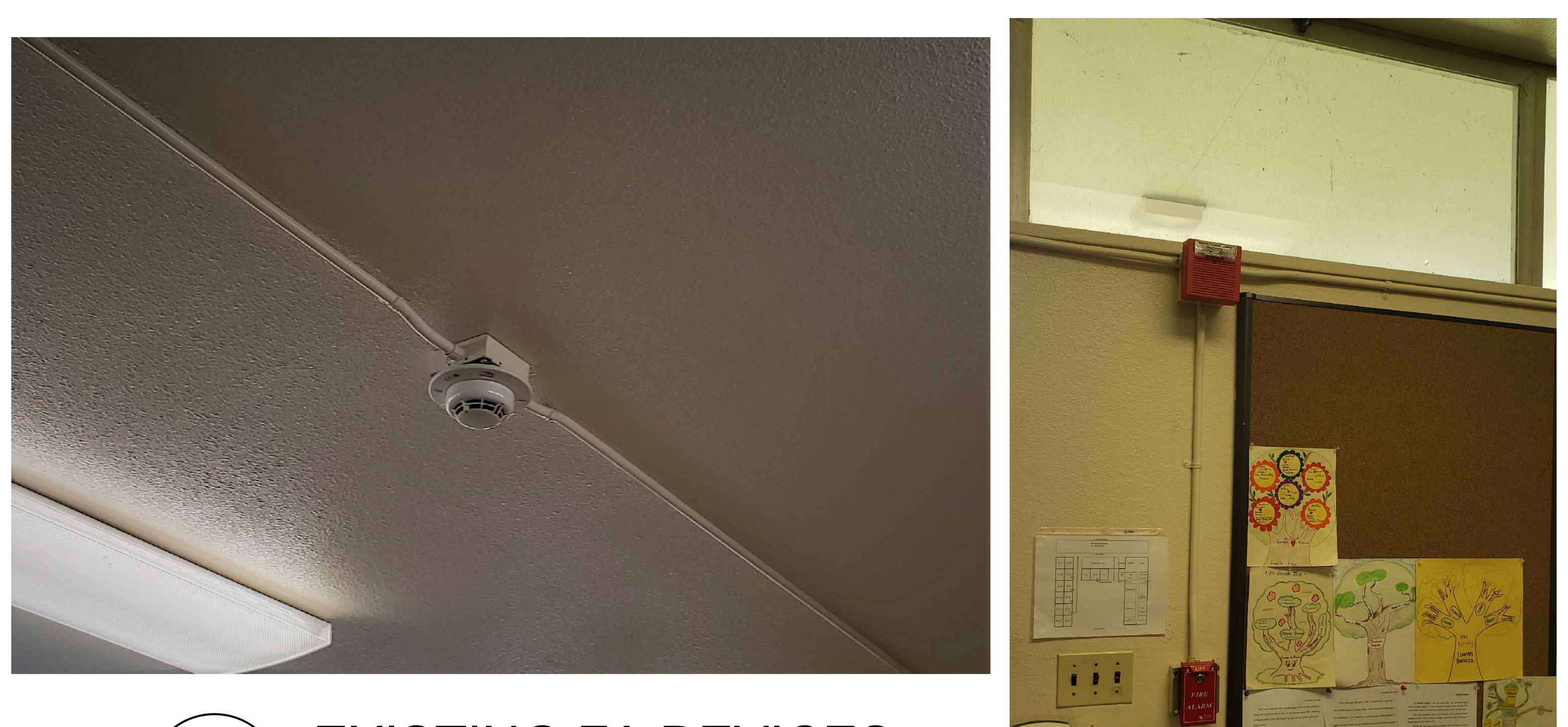
E2.2



CHAPTER 14 UPON COMPLETION OF FIRE ALARM SCOPE.

1 (E2.3) PARTIAL FLOOR PLAN - FIRE ALARM

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



2 (E2.2) EXISTING FA DEVICES

NOT TO SCALE

NUMBERED NOTES:

1. CAREFULLY REMOVE (E) SMOKE DETECTOR AND RELOCATE AS SHOWN. PROVIDE J-BOX AT LOCATION OF REMOVED DEVICE TO SPLICE (E) FIRE ALARM WIRING.
2. CAREFULLY REMOVE (E) STROBE/HORN AND RELOCATE AS SHOWN. PROVIDE J-BOX AT LOCATION OF REMOVED DEVICE TO SPLICE (E) FIRE ALARM WIRING. REINSTALL (E) STROBE/HORN BETWEEN 80"(TOP OF LENS) TO 96"(BOTTOM OF LENS).
3. INTERCEPT (E) CONDUIT/CONDUCTORS AND INSTALL (N) SMOKE DETECTOR.
4. REMOVE (E) SMOKE DETECTOR. PROVIDE J-BOX AT LOCATION OF REMOVED DEVICE TO SPLICE (E) FIRE ALARM WIRING.
5. INTERCEPT (E) CONDUIT/CONDUCTORS AND INSTALL (N) HEAT DETECTOR.
6. CAREFULLY REMOVE (E) SMOKE DETECTOR AND PROVIDE J-BOX AT LOCATION OF REMOVED DEVICE TO SPLICE (E) FIRE ALARM WIRING.
7. INTERCEPT (E) CONDUIT/CONDUCTORS AND INSTALL (N) MONITOR MODULE. INSTALL (N) HEAT DETECTOR ADJACENT TO (N) MONITOR MODULE. CONNECT PER FIRE ALARM RISER DIAGRAM, SHEET E4.1.
8. PROVIDE FOR FIRE SUPPRESSION SYSTEM. SEE 2/E4.1 FOR CONNECTION.
9. AMBIENT CONDITION (FINE DUST, SMOKE) IN THIS SPACE DO NOT PERMIT USE OF SMOKE DETECTORS PER SMOKE DETECTOR MANUFACTURER RECOMENDATIONS.

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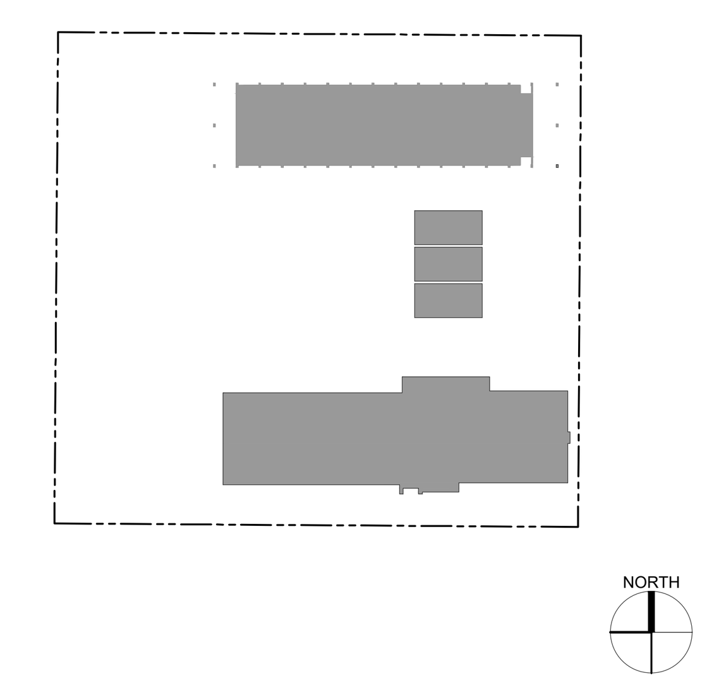

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STATE OF CALIFORNIA

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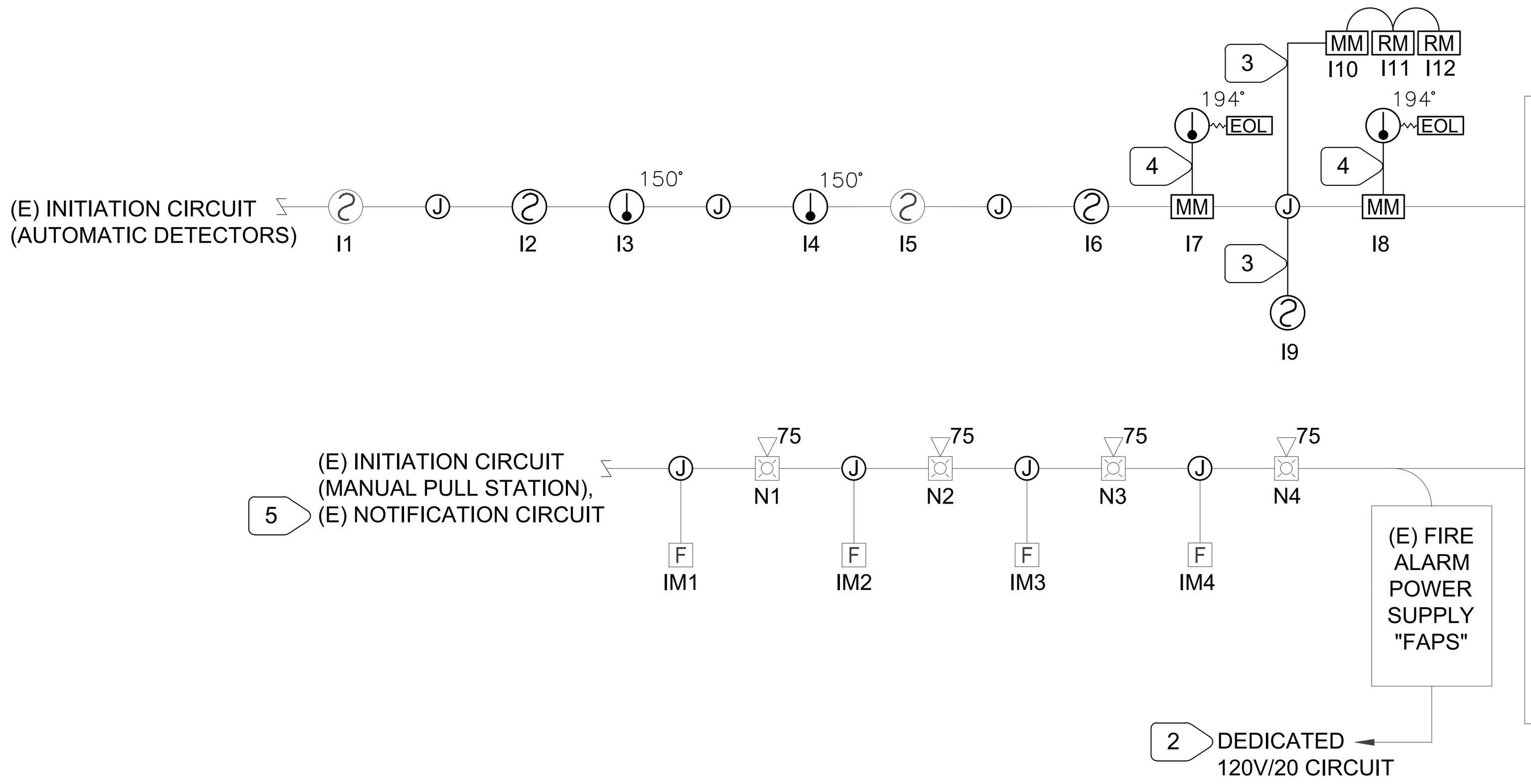
PARTIAL FLOOR PLAN - FIRE ALARM

DATE	2022-07-29
PROJECT NO.	21-W04-01

E2.3



1 E4.1 FIRE ALARM RISER DIAGRAM

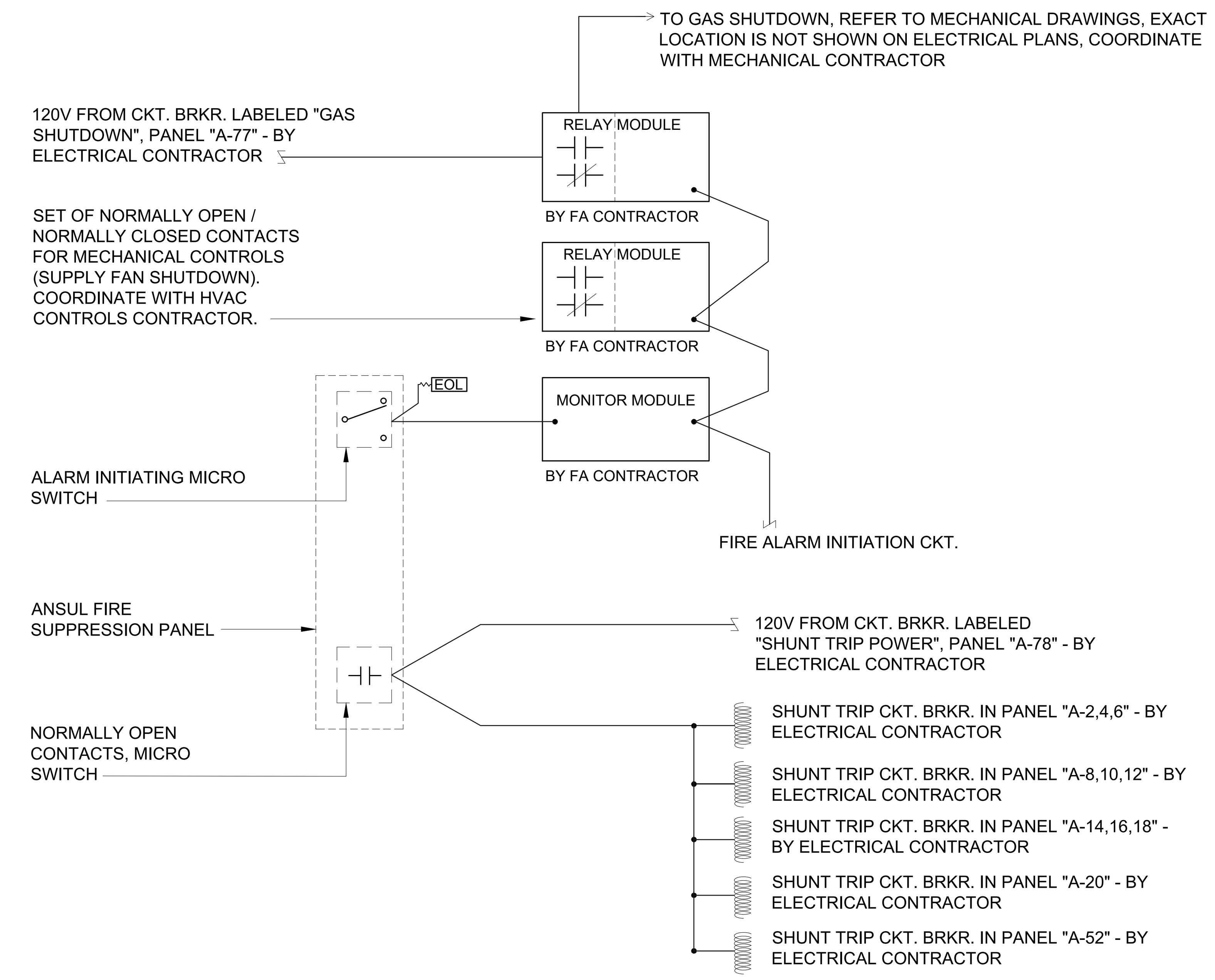
N.T.S.

FIRE ALARM NOTE:

ENTIRE FIRE ALARM SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH NFPA 72, CHAPTER 14 UPON COMPLETION OF FIRE ALARM SCOPE.

NUMBERED NOTES:

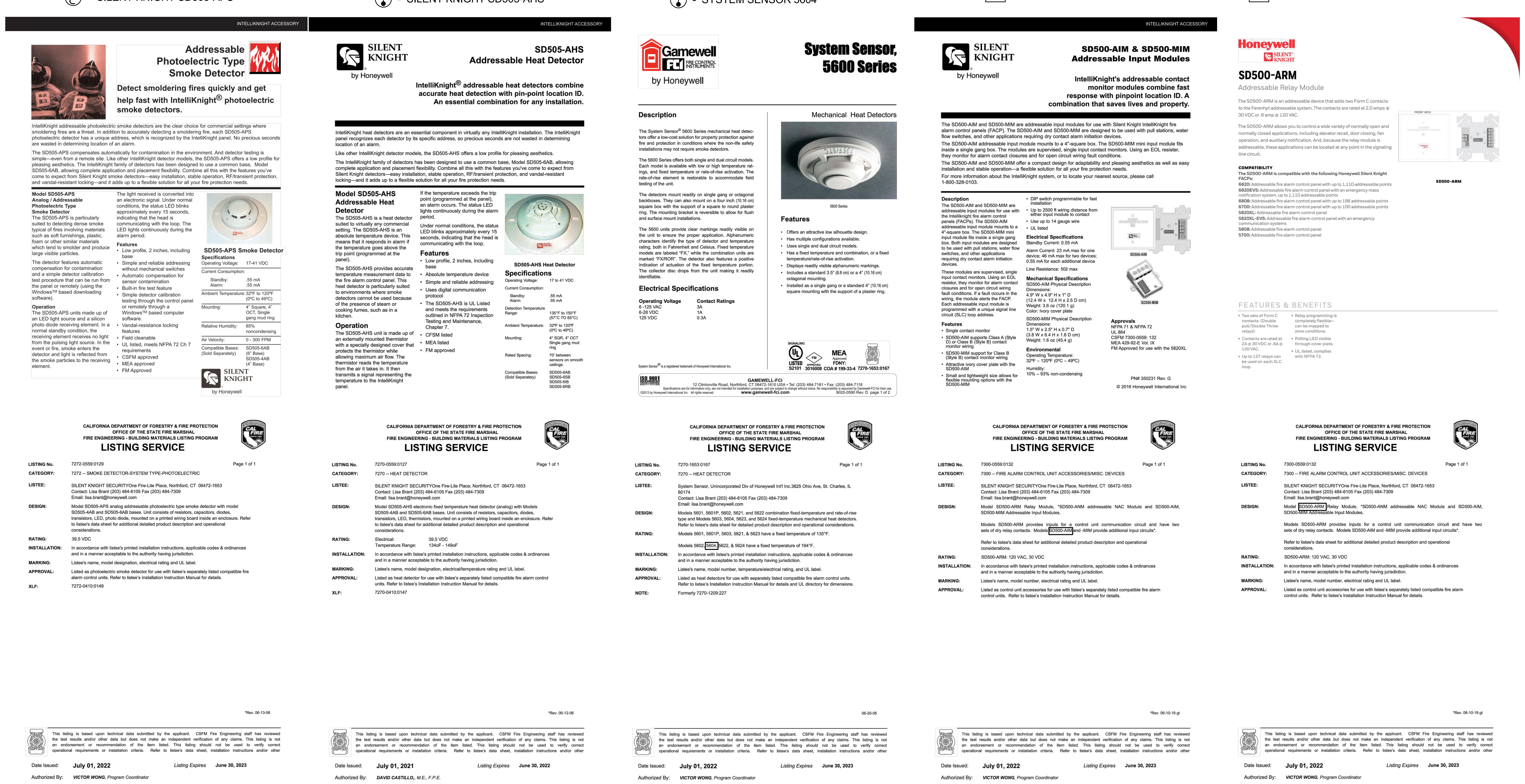
1. PROGRAM HEAD END EQUIPMENT FOR (N) ADDED DEVICES. COORDINATE WITH OWNER.
2. (E) CIRCUIT BREAKER FOR DEDICATED POWER CIRCUIT HAS RED HANDLE. PROVIDE LOCKING DEVICE TO (E) CIRCUIT BREAKER.
3. RUN IN SURFACE MOUNTED CONDUIT, SIMILAR TO (E) FA CONDUITS (PAINT TO MATCH (E) CONDUITS). MATCH (E) INITIATION CIRCUIT WIRE.
4. 2#16THHN IN 1/2"C.
5. NO CHANGES IN NOTIFICATION CIRCUIT LOAD, OR WIRE LENGTH, THEREFORE NO BATTERY CALCULATION OR VOLTAGE DROP CALCULATION ARE REQUIRED.



2 E4.1 HOOD FIRE SUPPRESSION PANEL - WIRING DIAGRAM

NOT TO SCALE

- SILENT KNIGHT SD505-APS
- 150° - SILENT KNIGHT SD505-AHS
- 194° - SYSTEM SENSOR 5604
- MM - SILENT KNIGHT SD500-AIM
- RM - SILENT KNIGHT SD500-ARM



CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM
LISTING SERVICE

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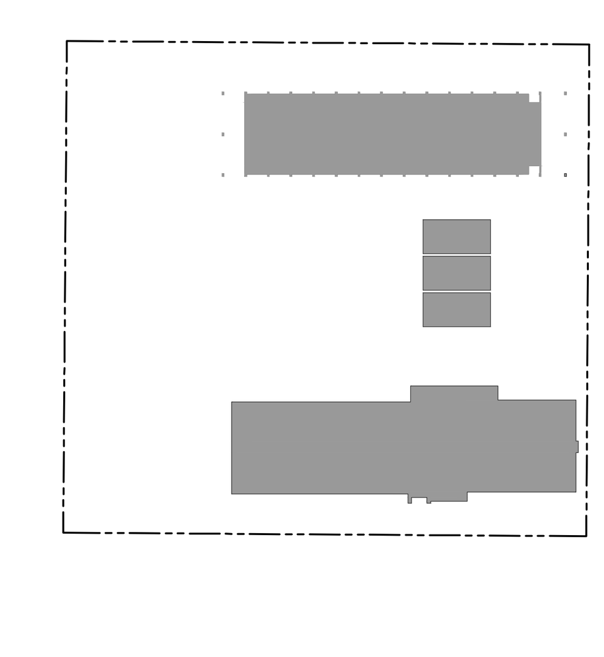


REGISTERED PROFESSIONAL ENGINEER JESSE U. BASTIAN No. E20229 Exp. 03-31-23 ELECTRICAL STATE OF CALIFORNIA
02/13/2023

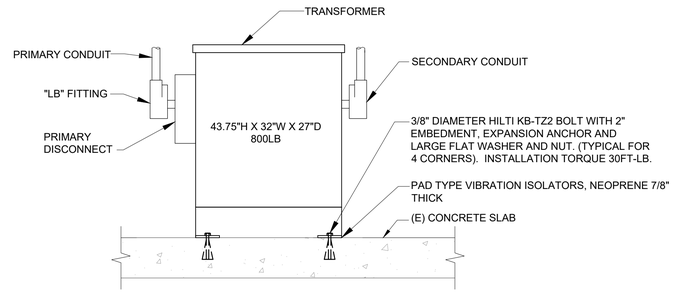
NO.	REVISION DESCRIPTION	DATE

FIRE ALARM DIAGRAMS, FA EQUIPMENT

E4.1

DATE	2022-07-29
PROJECT NO.	21-W04-01

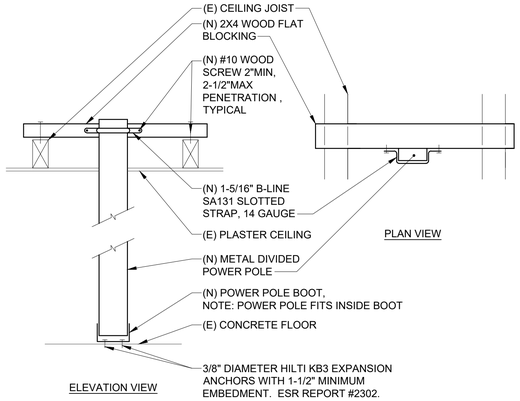
Feb 12, 2023 – 11:29am / sgilsic



1 TRANSFORMER MOUNTING DETAIL

E5.1

NO SCALE



5 POWER POLE DETAIL

E5.1

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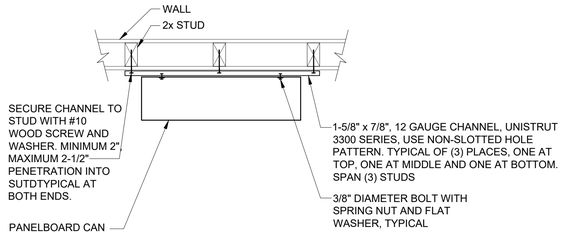
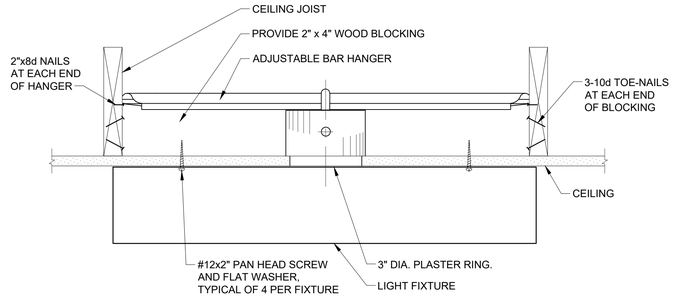


DIMENSION: 81"H X20"W X4.75"D
WEIGHT: 208LB.

2 PANEL- MOUNTING DETAIL

E5.1

NO SCALE

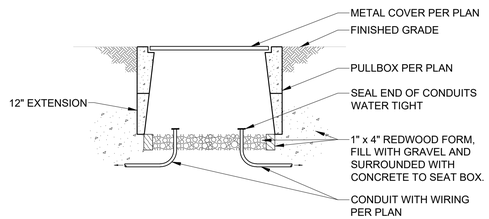


DIMENSION: 48"H X12.1"W X4"D
WEIGHT: 14.7LB.

6 SURFACE FIXTURE MOUNTING DETAIL

E5.1

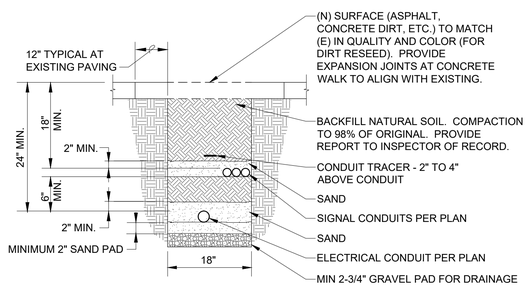
NO SCALE



3 UNDERGROUND PULL BOX

E5.1

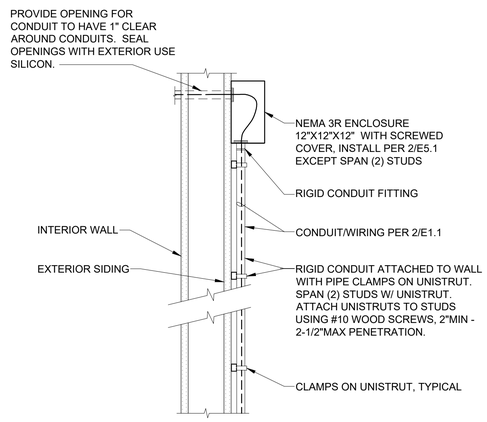
NO SCALE



4 CONDUIT TRENCHING DETAIL

0.1

NO SCALE



7 EXTERIOR CONDUIT PENETRATION DETAIL

E5.1

NO SCALE

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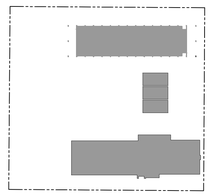

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NO.	REVISION DESCRIPTION	DATE

ELECTRICAL DETAILS

DATE	2022-07-29
PROJECT NO.	21-W04-01

E5.1

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name:	CLASSROOM CONVERSIONS AT WOODLAND EDUCATION CENTER	Report Page:	Page 1 of 6
Project Address:	575 HAYS ST, WOODLAND, CA 95695	Date Prepared:	11/17/2022

A. GENERAL INFORMATION

01	Project Location (city)	WOODLAND	04	Total Conditioned Floor Area (ft²)	868
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

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	868		
☐ Altered Lighting System				
Total Area of Work (ft²):	**868**			

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05	06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	= Total Allowed (Watts)	≥ Total Designed (Watts) (See Table F)	Adjustments PAF Control Credits §140.6(a)2 (-) (See Table P)		= Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
Conditioned:		824.6			= **824.6**	≥ 640			= **640**	**COMPLIES**
Unconditioned:					=	≥			=	

Table Continued

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Indoor Lighting
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CERTIFICATE OF COMPLIANCE

Project Name:	CLASSROOM CONVERSIONS AT WOODLAND EDUCATION CENTER	Report Page:	Page 2 of 6
Project Address:	575 HAYS ST, WOODLAND, CA 95695	Date Prepared:	11/17/2022

Controls Compliance (See Table H for Details)	**COMPLIES**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
A	4FT SURFACE MOUNT LED	☐	☐	40	Mfr. Spec[2]	16	☐	640	☐	☐
						Total Designed Watts CONDITIONED SPACES:		**640**		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

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Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Fail
Not Required ≤ 10,000 SF	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Fail
CULINARY CLASSROOM	Kitchen, Food Preparation	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting;
EXCEPTION 1 to §130.1(d)2

13
Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment Area Category	PAF
CULINARY CLASSROOM	Kitchen, Food Preparation	0.95	868	824.6	☐	☐
			TOTAL: **868**	**824.6**	See Tables J or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

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CERTIFICATE OF COMPLIANCE

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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

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CERTIFICATE OF COMPLIANCE

Project Name:	CLASSROOM CONVERSIONS AT WOODLAND EDUCATION CENTER	Report Page:	Page 5 of 6
Project Address:	575 HAYS ST, WOODLAND, CA 95695	Date Prepared:	11/17/2022

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

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CERTIFICATE OF COMPLIANCE

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Project Address:	575 HAYS ST, WOODLAND, CA 95695	Date Prepared:	11/17/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Jesse U. Bastian	Documentation Author Signature:	Jesse Bastian 02/13/2023
Company:	M. Neils Engineering, Inc.	Signature Date:	
Address:	100 Howe Ave, Suite 235N	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Sacramento, CA 95825	Phone:	(916) 923-4400

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:	Jesse U. Bastian	Responsible Designer Signature:	Jesse Bastian 02/13/2023
Company :	M. Neils Engineering, Inc.	Date Signed:	
Address:	100 Howe Ave, Suite 235N	License:	E20229
City/State/Zip:	Sacramento, CA 95825	Phone:	(916) 923-4400

APPROVALS

PO Box 1900
Yuba City, CA 95992-1900
530.298.7298
www.spinc-arch.com

▲INSTITUTIONAL ▲COMMERCIAL ▲RESIDENTIAL ▲INTERIORS ▲CONSTRUCTION MANAGEMENT

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Managers • Architects

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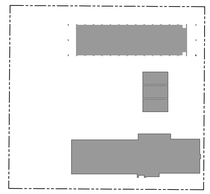
PROJECT #: 22133.21

OWNER

Woodland Joint Unified School District
435 6th Street
Woodland, CA 95695

PROJECT
CLASSROOM CONVERSIONS
at
WOODLAND EDUCATION CENTER
575 Hays Street
Woodland, CA 95695

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
Jesse Bastian
02/13/2023

NO.	REVISION DESCRIPTION	DATE

T24 COMPLIANCE FORMS

DATE	2022-07-29
PROJECT NO.	21-W04-01

E6.1