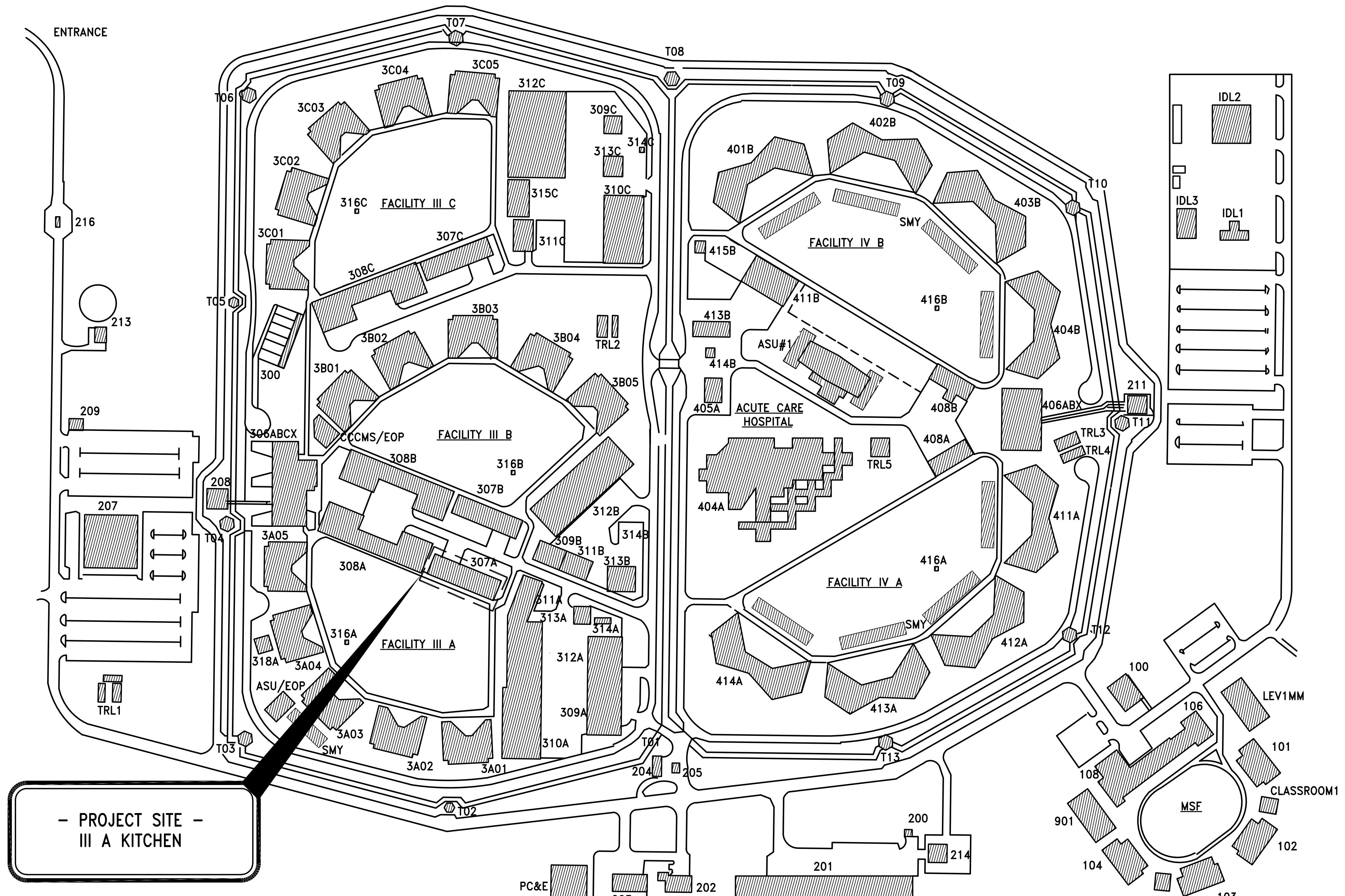
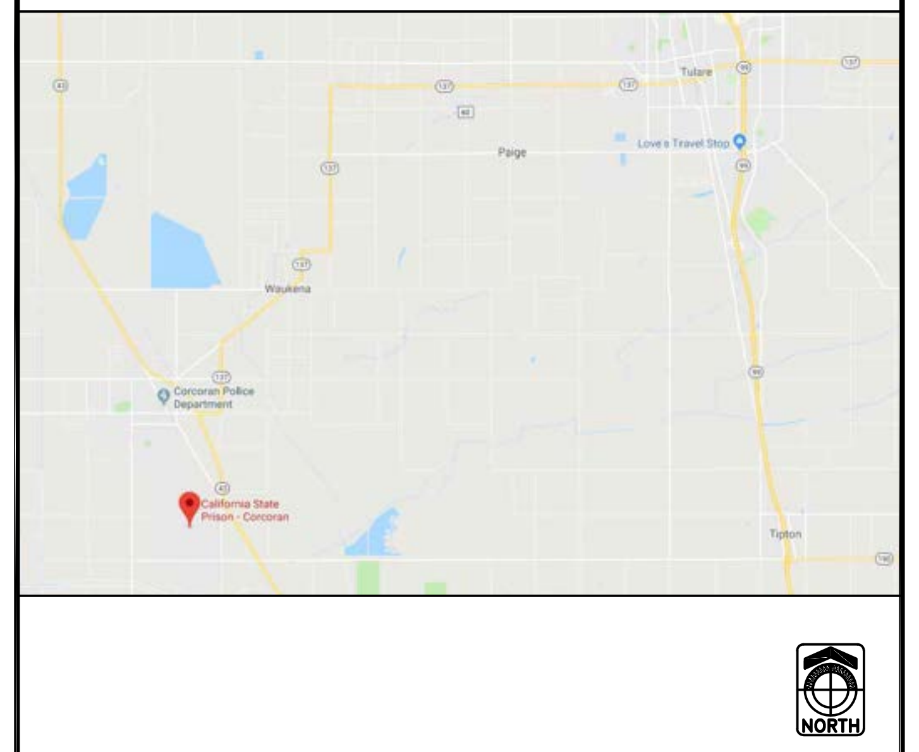
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
CORCORAN, CALIFORNIA

OWNER AND OCCUPANT: CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION



SITE MAP
NTS

VICINITY MAP



SCOPE OF WORK

INTERIOR REPAIR OF FACILITY III A KITCHEN BUILDING DUE TO SEVERE DAMAGE CAUSED BY WATER INTRUSION THROUGH ROOF. MITIGATE MOLD AND REPLACED ALL DAMAGED MATERIALS IN KIND, TO INCLUDE BUT NOT LIMITED TO: CEILING MATERIALS, FIRE PROOFING, GYPSUM BOARD, METAL STUDS, FLOORING, WALL BASE AND BUILDING SUPPORT SYSTEM COMPONENTS AND DEVICES. REPLACE ALL AIR HANDLING SYSTEMS INCLUDING AIR HANDLING UNITS, EXHAUST FANS, INTAKE AND RELIEF HOODS, KITCHEN EXHAUST HOODS, KITCHEN EXHAUST FANS, HEATING WATER PUMP AND PIPING, AND HVAC SYSTEM CONTROLS. REPLACE DOMESTIC WATER HEATING SYSTEM INCLUDING GAS WATER HEATER, EXPANSION TANK, MIXING VALVE, CIRCULATING PUMP, AND DISTRIBUTION PIPING. REPLACE WATER BASED FIRE SUPPRESSION SYSTEM FOR KITCHEN HOODS WITH WET CHEMICAL FIRE SUPPRESSION SYSTEM PER UL-300. REMOVED ABANDONED STEAM AND CONDENSATE PIPING. REPLACE WATER DAMAGED LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES.

GENERAL NOTES

1. THE BUILDER SHALL VERIFY THAT THE EXISTING SYSTEM OR COMPONENTS IMPACTING THIS NEW WORK ARE ENABLED, OPERATIONAL AND FUNCTIONING PROPERLY BEFORE COMMENCING WITH NEW WORK. THE INSTITUTION IS RESPONSIBLE FOR MAINTAINING THE SYSTEM IN ORIGINAL WORKING CONDITION TO ACCOMMODATE THIS NEW WORK.
2. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
3. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE BUILDER SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF THE WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING, FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
4. PROVIDE CONSTRUCTION BARRIERS TO PROTECT PERSONNEL.
5. REPAIR ALL EXISTING SURFACES DAMAGED TO ACCOMMODATE NEW CONSTRUCTION.
6. HAZARDOUS MATERIALS TO BE IDENTIFIED AND, IF REQUIRED, ABATED IN THE AREAS AFFECTED BY THIS CONSTRUCTION, PRIOR TO THE BUILDER BEGINNING HIS WORK. THE IDENTIFICATION AND ABATEMENT TO BE PERFORMED BY THE ENVIRONMENTAL COMPLIANCE UNIT; CONTACT GREGOR LARABEE AT (279) 223-2753.
7. APPLICABLE REGULATIONS: CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION (CDCR) DESIGN CRITERIA GUIDELINES (DCG).
8. PROVIDE SAFEGUARDS FOR CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS PER COMPLIANCE WITH "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" IN ACCORDANCE WITH 2016 CALIFORNIA FIRE CODE (CFC) CHAPTER 33. TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR).

ACCESS COMPLIANCE NOTES

THE SCOPE OF WORK FOR THIS PROJECT INVOLVES ONLY REPAIR WORK DEFINED IN CBC CHAPTER 2 FOR THE PURPOSE OF ITS MAINTENANCE OR TO CORRECT DAMAGE NOT AFFECTING THE USABILITY OF THE ROOMS OR BUILDING. AS SUCH, PATH OF TRAVEL ALTERATIONS ARE NOT REQUIRED.

TRACKING NUMBER:________________ DATE____________.

FIRE / LIFE-SAFETY NOTES

THIS ALTERATION PROJECT DOES NOT CHANGE USE OR OCCUPANCY, DOES NOT INCREASE BUILDING AREA, AND DOES NOT CHANGE THE CHARACTER OF THE AREA OF THE SCOPE OF WORK. AS SUCH, ONLY THE AREA OF ALTERATION IS REQUIRED TO MEET CURRENT APPLCIABLE CODE REQUIREMENTS PER CEBC SECTION ####.

CDCR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

TYRONE S. COATS
NO. C 30440
REN. 10-31-25

TYRONE COATS
SENIOR ARCHITECT

JOHN RODRIGUEZ
SUPERVISING ARCHITECT

MATERIAL DESIGNATION

GYPSUM BOARD	CONCRETE BLOCK	BATT INSULATION	WOOD FRAMING (CONT.)	FINISH WOOD
CONCRETE	METAL	RIGID INSULATION	WOOD BLOCKING	

ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ARCH('L)	ARCHITECT(URAL)
AC	ASPHALT CONCRETE
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BUR	BUILT-UP ROOFING
CEM	CEMENT
CJ	CONTROL JOINT
CLG	CEILING
CLKG	CAULKING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DR	DOOR
DWG	DRAWING
DS	DOWNSPOUT
E	EAST
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELECT	ELECTRICAL
EQ	EQUIP
EL	ELEVATION
EXH	EXHAUST
EXIST('G)	EXISTING (SEE (E))
EXP	EXPANSION
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRAM'G	FRAMING
FT	FOOT OR FEET
FTG	FOOTING
FUR	FURRING
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GR	GRADE
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDR	HEADER
HM	HOLLOW METAL
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INSUL	INSULATION
INV	INVERT
JST	JOIST
JT	JOINT
LAG	LAG BOLT(S)
LT	LIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MEM	MEMBRANE
MO	MASONRY OPENING
MTL	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
(N)	NEW
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PMF	PRESSED METAL FRAME
PR	PAIR
PVC	POLYVINYL CHLORIDE
R	RISER
RA	RETURN AIR
RDWD	REDWOOD
RD	ROOF DRAIN
REG	REGISTER
REINF	REINFORCE(D)(ING)
REQ'D	REQUIRED
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
TC	TOP OF CURB OR CONCRETE
THRU	THROUGH
TW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WG	WIRE GLASS
WH	WATER HEATER
WP	WEATHERPROOF OR WATERPROOF
WWM	WELDED WIRE MESH
WC	WATER CLOSET
YD	YARD
∠	ANGLE ANGLE
@	AT AT
℄	CENTER CENTER LINE
ø	DIAMETER DIAMETER
±	PLUS/MINUS PLUS/MINUS

SYMBOLS

A	COLUMN TAG
101	DOOR TAG
◆	INSTALLATION SIDE OF GLAZING STOP
000	WINDOW TAG
A	PARTITION TYPE
1 A-000	DETAIL NUMBER SHEET NUMBER
N, W, E, S A-000	DETAIL NUMBER SHEET NUMBER
1 A-000	DIRECTION OF VIEW DETAIL NUMBER SHEET NUMBER
ROOM NAME 101 F B W C	ROOM NAME ROOM NUMBER FINISHES CEILING BASE BASE FLOOR

BUILDING DATA

NON-STRUCTURAL PROVISIONS	CURRENT CODE
1. OCCUPANCY GROUPS AND VARIED USES	I-3
2. BUILDING CONSTRUCTION TYPE	II-FR (PER 1979 CBC)
3. NUMBER OF STORIES	1 WITH MEZZANINE
4. ACTUAL BUILDING HEIGHT	17'-0" & 26'-6"
5. BUILDING AREA IN SQUARE FEET	13,448
6. AREA OF PROJECT IN SQUARE FEET	13,448
7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED
8. ALLOWABLE AREA	15,100
9. AREA INCREASE	NA
10. HEIGHT INCREASE	NA
11. FIRE SPRINKLERS (TYPE)	FULLY SPRINKLERED
12. FIRE ALARM (TYPE)	AUTOMATIC WITH MANUAL PULL STATIONS
13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION
14. SMOKE CONTROL SYSTEM (Y/N)	NO
15. OCCUPANT LOAD (ENTIRE BUILDING)	142
16. OCCUPANT LOAD FOR EACH FLOOR	140 & 2
17. YEAR BUILDING WAS CONSTRUCTED	1986
18. HIGH FIRE HAZARD ZONE (Y/N)	NO
19. SEISMIC JOINTS AND LOCATION (Y/N)	NO
20. EMERGENCY RESPONDER RADIO COVERAGE (Y/N)	YES

BUILDING DATA NOTES:

OSFM APPLICATION DATA

BLDG. NO.	PERMIT APPLICATION NO.	PROJECT EMAIL	PASSWORD
307A	24-S-3165-C-NW	m_COR_24-014@cdcr.ca.gov	COR,tc@24-014

APPLICABLE CODES

TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (CCR):

PART 1 - 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 2 - 2022 CALIFORNIA BUILDING CODE (CBC)
PART 2.5 - 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC)
PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC)
PART 6 - 2022 CALIFORNIA ENERGY CODE (CEC)
PART 8 - 2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
PART 9 - 2022 CALIFORNIA FIRE CODE (CFC)
PART 10 - 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS CODE (CRSC)
2020 NFPA 17a WITH CALIFORNIA AMENDMENTS
2022 NFPA 72 WITH CALIFORNIA AMENDMENTS
2021 NFPA 96 WITH CALIFORNIA AMENDMENTS
CALIFORNIA CODE OF REGULATIONS - TITLE 19 PUBLIC SAFETY, DIVISION 1, STATE FIRE MARSHAL

APPLICABLE STANDARDS

1. CDCR 2023 DESIGN CRITERIA GUIDELINES (DCG).
2. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

OSFM DEFERRED SUBMITTAL

- **KITCHEN FIRE SUPPRESSION SYSTEM**
- **FIRE DETECTION AND ALARM SYSTEM**

COR
24-014

TITLE SHEET

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
G1.0
OF # SHEETS
V3

DRAWING INDEX

SMF NO.	SHEET #	SHEET NAME
0001	G1.0	TITLE SHEET
0002	G1.1	DRAWING INDEX
0003	G2.0	UL DESIGNS
0004	G2.1	UL DESIGNS
0005	A1.1	DEMOLITION FLOOR PLAN
0006	A1.2	DEMOLITION REFLECTED CEILING PLAN
0007	A1.3	DEMOLITION ROOF PLAN
0008	A2.1	FLOOR PLAN
0009	A2.2	REFLECTED CEILING PLAN
0010	A2.3	ROOF PLAN
0011	A3.1	EXTERIOR ELEVATION
0012	A3.2	INTERIOR ELEVATION
0013	A4.1	BUILDING SECTIONS
0014	A5.1	WALL SECTIONS
0015	A8.0	DETAILS
0016	S0.1	STRUCTURAL GENERAL NOTES
0017	S1.1	TYPICAL NOTES & DETAILS – CONCRETE
0018	S1.2	TYPICAL NOTES & DETAILS – STRUCTURAL STEEL
0019	S1.3	TYPICAL NOTES & DETAILS – STEEL DECK
0020	S2.2	LOW ROOF & MEZZANINE FRAMING PLAN
0021	S2.3	HIGH ROOF FRAMING PLAN
0022	S2.4	YARD CANOPY PLANS & DETAILS
0023	M0.1	MECHANICAL LEGEND AND NOTES
0024	M0.2	MECHANICAL SCHEDULE
0025	M0.3	MECHANICAL SCHEDULE
0026	M0.4	MECHANICAL SCHEDULE
0027	M0.5	MECHANICAL SCHEDULE
0028	M0.6	MECHANICAL SCHEDULE
0029	M0.7	MECHANICAL SCHEDULE
0030	M1.0	MECHANICAL OVERALL FLOOR PLAN–DEMOLITION
0031	M1.1	MECHANICAL ENLARGED FLOOR PLAN–DEMOLITION
0032	M1.2	MECHANICAL ENLARGED FLOOR PLAN–DEMOLITION
0033	M1.3	MECHANICAL ENLARGED MEZZANINE PLAN–DEMOLITION
0034	M1.4	MECHANICAL ENLARGED ROOF PLAN–DEMOLITION
0035	M1.5	MECHANICAL ENLARGED ROOF PLAN–DEMOLITION
0036	M1.6	MECHANICAL ENLARGED ROOF PLAN–DEMOLITION
0037	M2.0	MECHANICAL OVERALL FLOOR PLAN–NEW
0038	M2.1	MECHANICAL ENLARGED FLOOR PLAN–NEW
0039	M2.2	MECHANICAL ENLARGED FLOOR PLAN–NEW
0040	M2.3	MECHANICAL ENLARGED MEZZANINE PLAN–NEW
0041	M2.4	MECHANICAL ENLARGED ROOF PLAN–NEW
0042	M2.5	MECHANICAL ENLARGED ROOF PLAN–NEW
0043	M2.6	MECHANICAL ENLARGED ROOF PLAN–NEW
0044	M4.1	MECHANICAL PIPING DIAGRRAM
0045	M5.1	MECHANICAL DETAILS
0046	M5.2	MECHANICAL DETAILS
0047	M5.3	MECHANICAL DETAILS
0048	M6.1	MECHANICAL CONTROLS
0049	M6.2	MECHANICAL CONTROLS
0050	M6.3	MECHANICAL CONTROLS

DRAWING INDEX

SMF NO.	SHEET #	SHEET NAME
0051	P0.1	PLUMBING LEGEND AND NOTES
0052	P0.2	PLUMBING SCHEDULES
0053	P1.0	PLUMBING ENLARGED FLOOR PLAN–DEMOLITION
0054	P1.1	PLUMBING ENLARGED FLOOR PLAN–DEMOLITION
0055	P1.2	PLUMBING ENLARGED FLOOR PLAN–DEMOLITION
0056	P1.3	PLUMBING MEZZANINE PLAN–DEMOLITION
0057	P1.4	PLUMBING ENLARGED ROOF PLAN–DEMOLITION
0058	P2.0	PLUMBING ENLARGED FLOOR PLAN–NEW
0059	P2.1	PLUMBING ENLARGED FLOOR PLAN–NEW
0060	P2.2	PLUMBING ENLARGED FLOOR PLAN–NEW
0061	P2.3	PLUMBING MEZZANINE PLAN–NEW
0062	P2.4	PLUMBING ENLARGED ROOF PLAN–NEW
0063	P5.1	PLUMBING DETAILS
0064	P5.2	PLUMBING DETAILS
0065	FS0.1	FIRE SUPPRESSION LEGEND AND NOTES
0066	FS1.0	FIRE SUPPRESSION ENLARGED FLOOR PLAN–DEMOLITION
0067	FS1.1	FIRE SUPPRESSION ENLARGED FLOOR PLAN–DEMOLITION
0068	FS2.0	FIRE SUPPRESSION ENLARGED FLOOR PLAN–NEW
0069	FS2.1	FIRE SUPPRESSION ENLARGED FLOOR PLAN–NEW
0070	FS3.0	FIRE SUPPRESSION PIPING DIAGRAM
0071	E0.0	ELECTRICAL NOTES AND SYMBOL LEGEND
0072	E1.0	LIGHTING DEMO PLAN – FIRST FLOOR
0073	E1.1	LIGHTING DEMO PLAN – SECOND FLOOR
0074	E1.2	LIGHTING NEW PLAN – FIRST FLOOR
0075	E1.3	LIGHTING NEW PLAN – SECOND FLOOR
0076	E2.0	POWER AND SIGNAL DEMO PLAN – FIRST FLOOR
0077	E2.1	POWER AND SIGNAL DEMO PLAN – SECOND FLOOR
0078	E2.2	POWER DEMO PLAN – ROOF
0079	E2.3	POWER AND SIGNAL NEW PLAN – FIRST FLOOR
0080	E2.4	POWER AND SIGNAL NEW PLAN – SECOND FLOOR
0081	E2.5	POWER NEW PLAN – ROOF
0082	E3.0	FIRE ALARM DEMO PLAN – FIRST FLOOR
0083	E3.1	FIRE ALARM DEMO PLAN – SECOND FLOOR
0084	E3.2	FIRE ALARM DEMO PLAN – ROOF
0085	E3.3	FIRE ALARM NEW PLAN – FIRST FLOOR
0086	E3.4	FIRE ALARM NEW PLAN – SECOND FLOOR
0087	E3.5	FIRE ALARM NEW PLAN – ROOF
0088	E4.0	ELECTRICAL DETAILS
0089	E4.1	ELECTRICAL DETAILS
0090	E4.2	ELECTRICAL PANEL SCHEDULES
0091	E4.3	FIRE ALARM DETAILS

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

TYRONE S. COATS
NO. C 30440
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SENIOR ARCHITECT

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COR
24-014

DRAWING INDEX

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\0001-0004_G1.0_TITLE-G1.1 INDEX-G2 ULS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER

G1.1

OF # SHEETS V3

Design No. P701

February 13, 2019

Restrained Assembly Rating — 3/4, 1, 1-1/2 or 2 Hr.

(See Item 6)

Unrestrained Assembly Rating — 3/4, 1, 1-1/2 or 2 Hr.

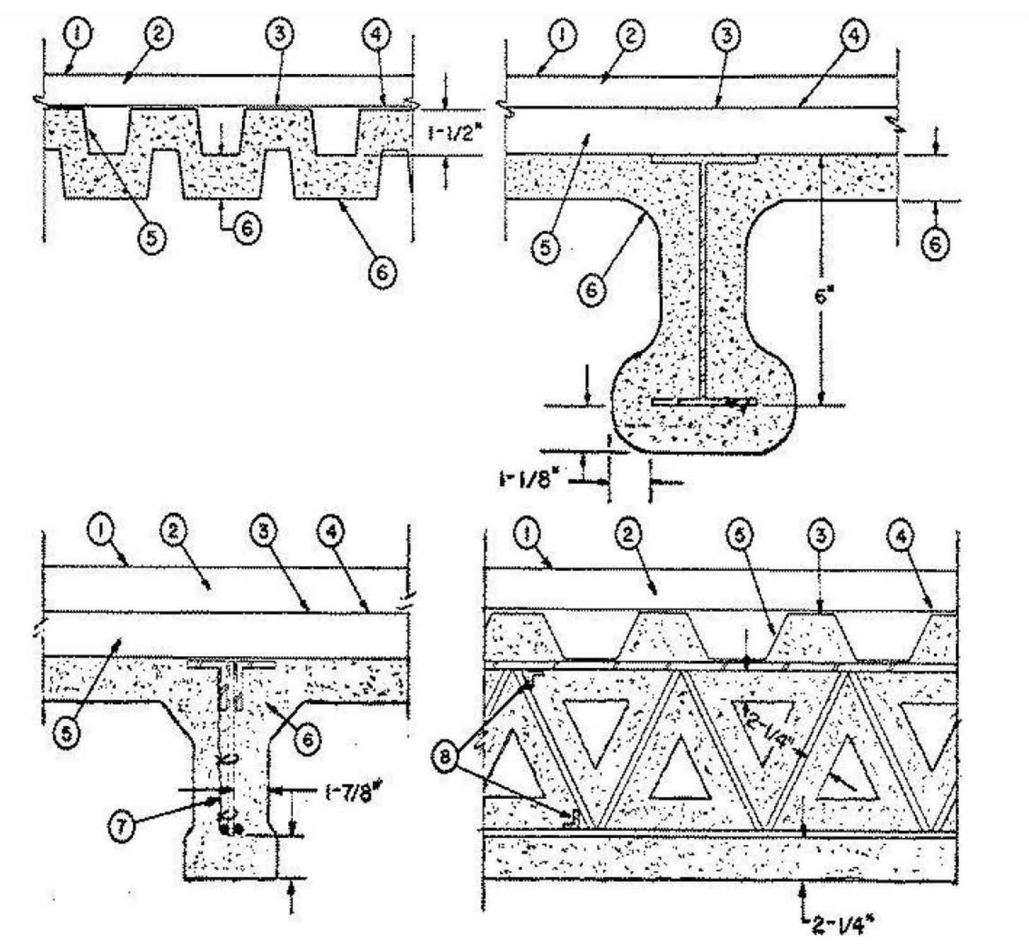
(See Item 6)

Unrestrained Beam Rating — 1, 1-1/2 or 2 Hr.

(See Item 6)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



Beam — W6x16, min size or **Steel Joist** — 12J4, 14J7 or 14K4 min sizes (See Item 6). As alternate to steel beam or steel joists, Joist girders (Not shown)-20 in. min depth and 13 lb/lin ft min weight. As an alternate to steel beam or steel joists, any LH-Series joist may be used.

1. **Roof Covering* —** Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings.

See Roofing Materials and Systems Directory **Roof Covering Materials** (TEVT).

→ 1A. **In lieu of Item 1, roof covering consisting of single-ply Roofing Membrane*** — that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).

1B. **Metal Roof Deck Panels —** (Not Shown) — In addition to or in lieu of Items 1 or 1A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly.

See Fire Resistance Directory **Metal Roof Deck Panels** (CETW).

2. **Roof Insulation —**

A) **Mineral and Fiber Boards* —** To be applied in one or more layers with or without adhesive applied between vapor barrier and roof deck units, vapor barrier and board, and each layer of board. When more than one layer is required, each layer of board to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Min thickness is 2 in. when Item 1A or 1B is used. Min thickness is 1 in. otherwise.
GAF — GAFTEMP Perlite

JOHNS MANVILLE

ROCKWOOL — MonoBoard™, MonoBoard™ Plus, "MonoBoard Plus S", TopRock®DD, TopRock® DD Plus or TopRock DD Plus S

SOPREMA INC — SopraRock®DD and SopraRock®DD Plus

B) Or 5/8 in. **Gypsum Board** (Classified or Unclassified), supplied in 4 ft wide sheets. Installed perpendicular to steel roof deck with end joints staggered a min of 1 ft in adjacent rows and occurring over crests of steel roof deck. May be secured to crests of steel roof deck with **Adhesive*** applied at a rate of 0.4 gal per 100 sq ft. See **Gypsum Board** (CKNX) category for names of manufacturers.

See **Adhesives** (BYWR) category for names of manufacturers.

2A. **Foamed Plastic* —** Optional — (Not Shown) - 1/4 in. thick. Placed over minimum 1-1/2 in. thick polyisocyanurate Foamed Plastic (Item 2, d) may be applied with adhesive (Item 3). Boards to be installed with end joints to be offset in both directions from layer below a min of 6 in. in order to lap all joints.
JOHNS MANVILLE — Invinsa

2B. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISOGARD HD"

2C. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 5/8 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
RMAX OPERATING L L C — "Ultra-Max HD"

→ **SIKA SARNAFIL INC** — "Sarnatherm Roof Board-R"

2D. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1/2 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
HUNTER PANELS — H-Shield HD, H-Shield HD90, H-Shield HD NH, H-Shield HD90 NH

VERSICO INC — SecurShield HD, WeatherBond XFP HD Cover Board

3. **Adhesive* —** Optional — May be used with board insulation. Applied in 1/2 in. wide ribbons, approx 6 in. OC at 0.4 gal/100 sq ft

3A. **Adhesive* - (Optional) —** (Bearing the UL Classification Marking for Roof Systems (TGFU)) - The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied at a max rate of 19.8 g/ft^2. When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials*** (CHPX) is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.
CARLISLE SYNTEC INCORPORATED — FAST 100

4. **Sheathing Material* —** Optional. Vinyl film or paper scrim vapor barrier applied with adhesive or laid loosely on the steel roof deck, overlapped approx 2 in. at sides.

4A. **Sheathing Material* —** (Optional) — A self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of the gypsum wallboard (Item 2B) or on roof insulation (Item 2 or any nonpolystyrene foamed plastic insulation covered as an alternate to Item 2).
GCP APPLIED TECHNOLOGIES INC — Grace Ice and Water Shield, Grace Ice and Water Shield-HT®, Grace Select, Grace Ultra, and Grace Basik.

5. **Steel Roof Deck —** (Unclassified) — Min 1-1/2 in. deep, 18 in. wide, galv, fluted steel deck. Flutes 6 in. OC, crest width ranging from 3-1/2 to 5 in. Min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports approx 9 in. OC. Adjacent units button-punched or welded together 36 in. OC along side joints; or,
Classified Steel Floor and Form Units* — 1-1/2 or 3 in. deep 24, 30 or 36 in. wide, galv steel units. Min gauge is 22 MSG. Spacing of welds attaching units to supports shall not exceed 12 in. OC. Adjacent units button-punched or welded together 36 in. OC along side joints.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — Types BH-36, BHN-36, BHN-35-1/4, DGB-36, B-36, BN-36, BN-35-1/4, NH-32, NHN-32, DGN-32, N-32, NN-32. All units may be galvanized or Prime Shield™. All non-cellular decks may be vented designated with a "V" suffix to the product name

CANAM STEEL CORP — 36 in. wide Type P-3606 and P-3615 noncomposite; 24 in. wide Type P-2436, P-2404, P-2403, and P-2438 noncomposite

CANAM STEEL CORP — Types B, BI, F, NS and NI. Units may be ptd/ptd

DECK WEST INC — 36 in. wide Types B-DW, BA-DW; 24 in. wide Type NDW

MARLYN STEEL DECKS INC — Types B, F, N, NV

NEW MILLENNIUM BUILDING SYSTEMS L L C — 30 in. or 36 in. wide Types B, BD, BI, F, FD; 24 in. wide Types N, ND. For 1 and 1-1/2 h Assembly and Beam Ratings only, units may be phos/painted or galvanized

ROOF DECK INC — Types A, B-1, B-2 or F

VERCO DECKING INC - A NUCOR CO — Deck types PLB, HSB, PLN3, HSN3, PLN, N; FORMLOK™ deck types PLB, B, PLN3, N3, PLN, N. Units may be galvanized or phos./ptd. Deck may be vented or non-vented.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide Types 1.5A, 1.5B, 1.5BI, 1.5PLB, 1.5F, 3N, 3NI, 3.0PLN, 3NL-32, 3NI-32, 3PLN-32; units may be ptd/ptd for 1 and 1-1/2 hr Assembly and Beam Ratings. Types BW, B High Strength, BW High Strength, N. Units may be ptd/ptd.

6. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to a final thickness as shown on the above illustration and in the table below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.
Note: When metal lath is used on joist, full thickness Spray-Applied Fire Resistive Materials is to be applied over the entire joist, including the lath. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire				Resistive Mtl Thk In	
					12J4, 14K4 or LH Joist		14J7 Joist	
			Deck	Beam	w/ Lath	No. Lath	w/ Lath	No. Lath
1	3/4	1	7/8	7/8	—	—	1-1/2	1 1/2
* 1	1	1	1-1/4	1-1/8	1-3/4	1-7/8	1-1/2	1 1/2

When metal lath is required, as indicated below, full thickness Spray-Applied Fire Resistive Materials is to be applied over the entire support including the lath.

Restrained Assembly Rating Hr	Un restrained Assembly Rating Hr	Un restrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thk In					
					12J4 or 14K4 Joist		14J7 Joist	
			Deck#	Beam	w/ Lath	No. Lath	w/ Lath	No. Lath
* 1-1/2	1-1/2	1-1/2	1-5/8	1-3/8	1-3/4	2-1/8	—	—
2	2	2	2-1/4	1-1/2	1-7/8	2-3/8	—	—

The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 3A is used.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thk In. Joist Girder	
			w/Lath	No. Lath
1	3/4	1	1-1/2	1-1/2
* 1	1	1	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-3/4	2-1/4
2	2	2	1-7/8	2-3/8

7. **Metal Lath —** Where required — The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb/sq yd is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. Where not required, the optional use of metal lath described, fastened as above, may be used to facilitate the spray application of spray-applied resistive material on steel bar joists and trusses. In this application, the metal lath is to be fully covered with spray-applied resistive material with no minimum thickness required.

7A. **Nonmetallic fabric mesh —** (Optional, Not Shown) — As an alternate to the optional use of metal lath, glass fiber fabric mesh, weighing approximately 2.5 oz/sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz/sq yd or equivalent, may be used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied spray-applied resistive material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 12 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

8. **Bridging —** In accordance with Specifications adopted by the Steel Joist Institute and revised to November 15, 1989. Continuous steel angles, min. size 1-1/4 by 1-1/4 by 1/8 in. welded to top and bottom chords. Bridging coated with 2-1/4 in. thickness of Spray-Applied Fire Resistive Materials for the 1 or 1-1/2 h Assembly and Beam Ratings and 2-7/16 in. for the 2 h Assembly and Beam Ratings.

9. **Metal Lath —** (Not Shown) — Where Type 7HD is applied to steel deck, 3/8 in. metal ribbed lath weighing 3.4 lb/yd^2 shall be secured to the underside of the steel deck (ribs upward) with S-12 by 3/8 in. long pan head, self-tapping steel screws spaced 12 in. OC in all directions. Steel screws shall be fitted with 1/2 in. diameter steel washers. Adjacent pieces of lath shall be overlapped 1 in. min.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2019-02-13

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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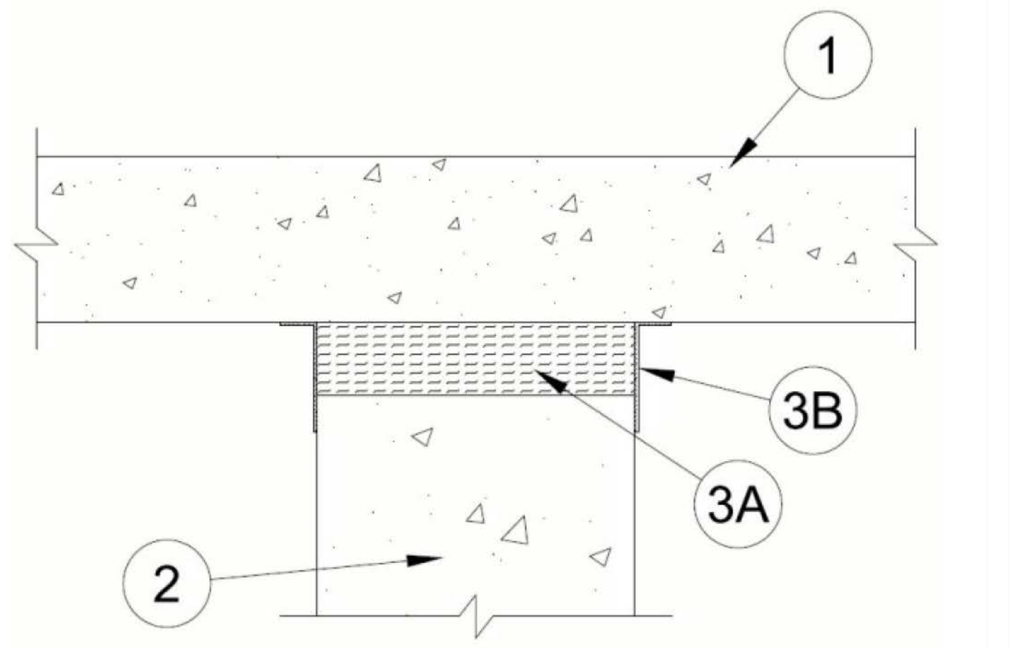
SPRAY APPLIED FIRE PROOFING - 2-HR RATED

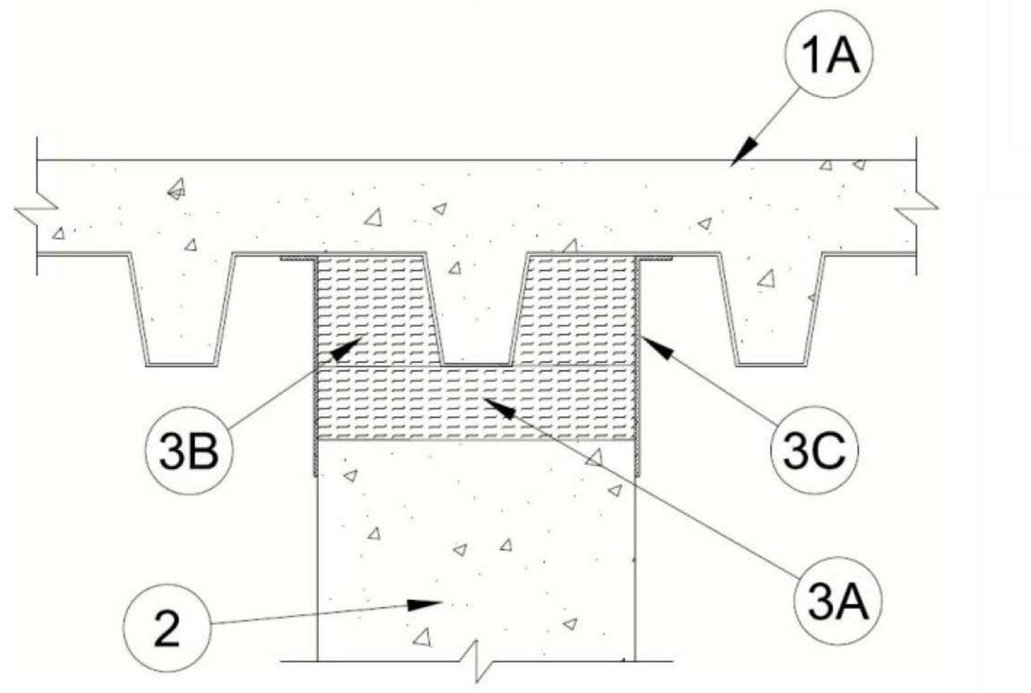
1

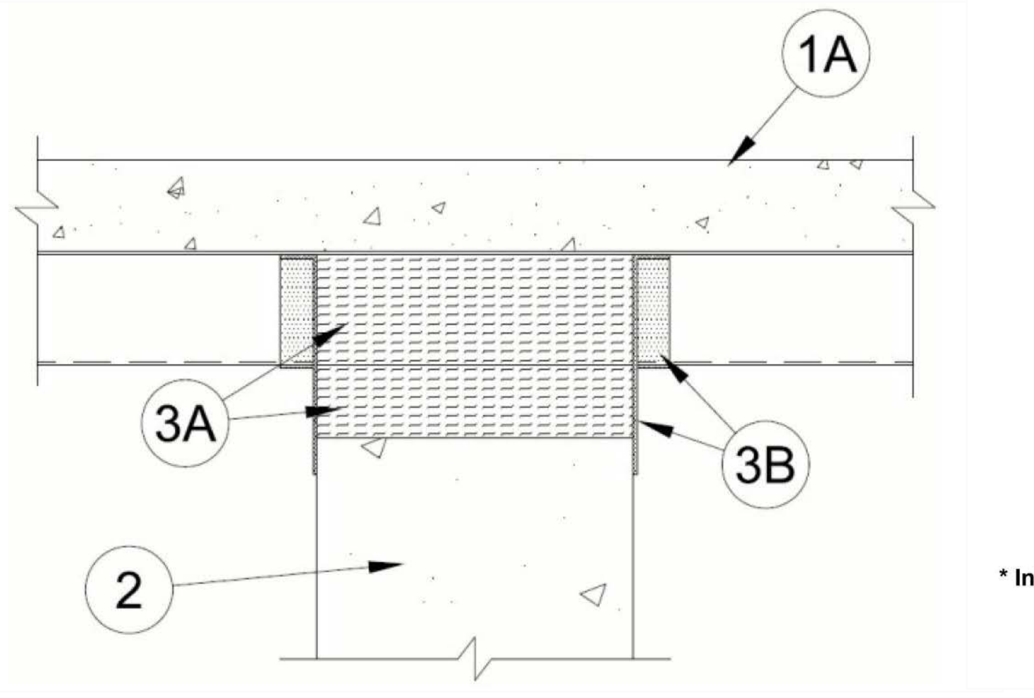
System No. HW-D-0755

January 26, 2018

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 2, 3 and 4 Hr (See Item 2)	F Ratings — 2, 3 and 4 Hr (See Item 2
Nominal Joint Width - 2 In.	FT Ratings — 2, 3 and 4 Hr (See Item 2
Class II Movement Capabilities — 19% Compression or Extension	FH Ratings — 2, 3 and 4 Hr (See Item 2
	FTH Ratings — 2, 3 and 4 Hr (See Item 2
	Nominal Joint Width - 51 m
	Class II Movement Capabilities — 19 Compression or Extensio







1B. **Roof Assembly —** (Not Shown) - As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/2 in. (64 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.

C. **Spray Applied Fire Resistive Material* (Optional, Not Shown) —** The steel roof units may be sprayed with fire resistive material in accordance with the applicable Roof-Ceiling Design. The spray applied fire resistive material is to be removed from the steel deck for the installation of the joint system (Item 3) such that the steel deck is bare over the wall.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

2. **Wall Assembly —** Min 6-1/8 in. (156 mm), 7-3/8 in. (187 mm) or 8-5/8 in. (219 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete for 2, 3 and 4 hr Assembly (F, FT,FH and FTH) Ratings, respectively. Wall may also be constructed of UL Classified Concrete Blocks. The hourly Assembly, F, FT, FH and FTH rating of the joint system is equal to the hourly rating of the wall. See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System —** Max separation between bottom of floor and top of wall at time of installation of joint system is 2 in. (51 mm). The joint system is designed to accommodate a maximum 19 percent compression or extension from its installed width. The joint system consists of the following:

Configurations A and B

A. **Forming Material* —** Min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to a thickness equal to twice the height of the gap between the top of the wall and the bottom of the floor. Insulation compressed 50 percent in thickness and inserted within joint to completely fill the space between the top of the wall and the bottom of the floor, over the full thickness of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed to completely cover forming material and to overlap a min of 1/2 in. (13 mm) on to wall and steel deck or spray applied fire resistive material on both sides of wall.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — FireDam™ Spray 200

B1. **Fill, Void or Cavity Material* — Tape —** As an alternate to Item B, Tape cut to size and press applied to completely cover mineral wool forming material and overlap a min of 1 in. (25 mm) onto wall and steel deck, or min 2 in. (51 mm) onto spray applied fire resistive material, on both sides of wall. Adjoining lengths of Tape shall overlap min 1/2 in. (13 mm).
3M COMPANY — 3M Fire and Water Barrier Tape

Configuration C

A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) mineral wool batt cut to the shape of the steel deck flute with a height 1 in. (25 mm) greater than the height of flutes and with a length equal to the overall thickness of the wall assembly. Mineral wool batt compressed and installed into each flute above the wall with its ends projecting flush with the wall surfaces. Additional pieces of min 4 pcf (64 kg/m^3) density mineral wool batt cut to a width equal to the overall thickness of the wall and with a thickness equal to twice the height of the gap between the top of the wall and the valleys of the steel deck floor. Insulation compressed 50 percent in thickness and inserted between the top of the wall and the bottom of the floor, flush with both sides of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed to completely cover forming material and to overlap a min of 1/2 in. (13 mm) on to wall and steel deck or spray applied fire resistive material on both sides of wall.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — FireDam™ Spray 200

B1. **Fill, Void or Cavity Material* — Tape —** As an alternate to Item B, Tape cut to size and press applied within fluted areas of joint to completely cover mineral wool lapping min 1 in. (25 mm) onto the contour of the steel floor units and extending to lap min 1 in. (25 mm) onto the gypsum wall. Additional pieces of Tape are applied along the joint to completely cover the remaining mineral wool between bottom of steel deck and top edge of wall along length of joint, lapping min 1 in. (25 mm) onto the contour of the steel floor units and min 1 in. (25 mm) onto the gypsum wall. When the steel deck is coated with spray applied material, the Tape shall overlap min 2 in. (51 mm) onto the spray applied material. Adjoining lengths of Tape shall overlap min 1/2 in. (13 mm). Tape shall be applied at both sides of wall.
3M COMPANY — 3M Fire and Water Barrier Tape

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-01-26

HEAD OF WALL CMU & CONCRETE - 2-HR RATED

2

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

**OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY**
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

**CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW**
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

TYRONE S. COATS
NO. C 30440
REN. 10-31-19

TYRONE COATS
SENIOR ARCHITECT

JOHN RODRIGUEZ
SUPERVISING ARCHITECT

COR
24-014

UL DESIGNS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\0001-0004_G1.0_TITLE-G1.1 INDEX-G2 ULS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
G2.0
OF # SHEETS
V3

System No. C-AJ-1112

August 23, 2004

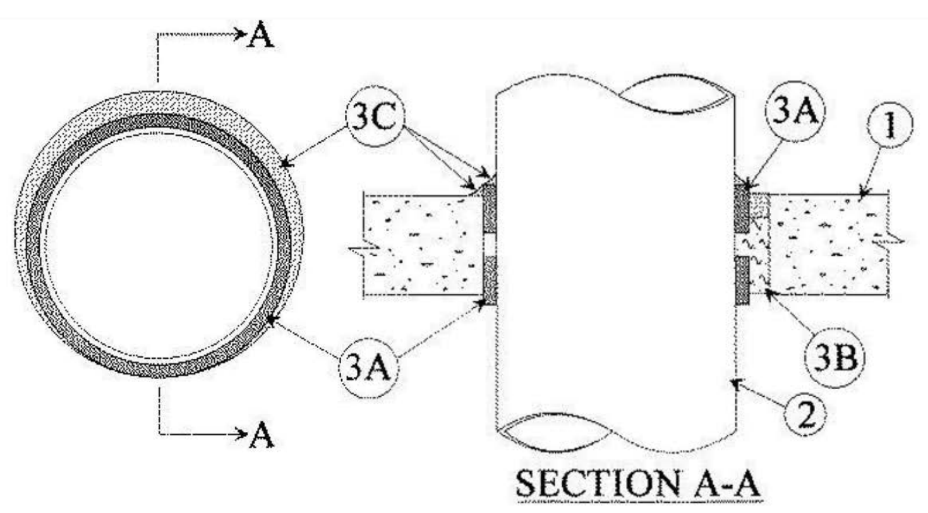
F Ratings — 2 and 3 Hr (See Item 1)

T Rating — 0 Hr

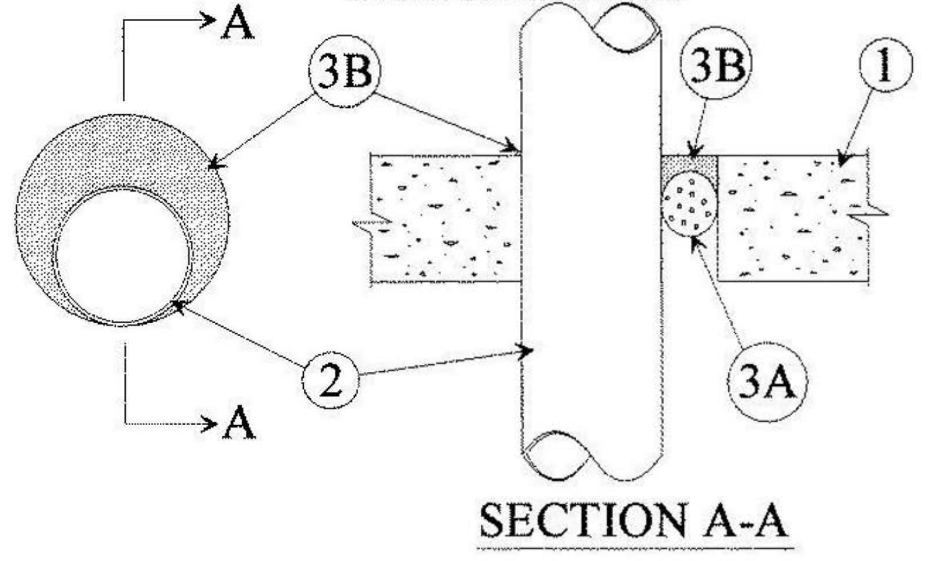
L Rating At Ambient — 2 CFM/sq ft

L Rating At 400 F — Less than 1 CFM/sq ft

W Rating — Class 1 (See Item 3)



FIRESTOP CONFIGURATION A



FIRESTOP CONFIGURATION B

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*** . Max diam of circular through opening is 12 in.
See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. **Aluminum Pipe** — Nom 10 in. diam (or smaller) Schedule 10 (or heavier) pipe for use in closed (process or supply) piping system. Max annular space between pipe and edge of through opening not to exceed 1-3/4 in. Min annular space between pipe and edge of opening is 1/4 in. Pipe to be rigidly supported on both sides of floor or wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:

   A. **Fill, Void or Cavity Materials — Wrap Strip** — Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in nom 2 in. wide strips. Nom 2 in. wide strip tightly-wrapped around pipe (foil side exposed), secured with a steel wire tie and slid into annular space on both sides of floor or wall assembly. In floors, the bottom edge of the lower wrap strip is to be flush with the bottom surface of floor and the upper wrap strip is to protrude 1/4 in. above the top surface of the floor. In walls, each wrap strip is to protrude 1/4 in. from the wall surface.
   3M COMPANY — FS-195+

   B. **Packing Material** — Min 3-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 3C).

   C. **Fill, Void or Cavity Materials — Caulk or Sealant** — Min 1 in. thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall assembly. Min 1/4 in. thickness of caulk also applied to cover exposed edge of wrap strip layer on top surface of floor and on both sides of wall.
   3M COMPANY — CP 25WB+ or FB-3000 WT.

FIRESTOP CONFIGURATION B

2. **Aluminum Pipe** — Nom 5 in. diam (or smaller) Schedule 10 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. An annular space of min 0 in. (point contact) to max 1-1/2 in. is required withing the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:

   A. **Packing Material** — Polyethylene backer rod or nom 1 in. thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 3B).

   B. **Fill, Void or Cavity Materials — Caulk, Sealant** — Min 1/2 in. thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall assembly. At the point contact location between pipe and concrete, a min 1/2 in. diam bead of sealant shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall assembly.
   3M COMPANY — CP25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

2-HR CONC. WALL PENETRATION

2

System No. W-L-1001

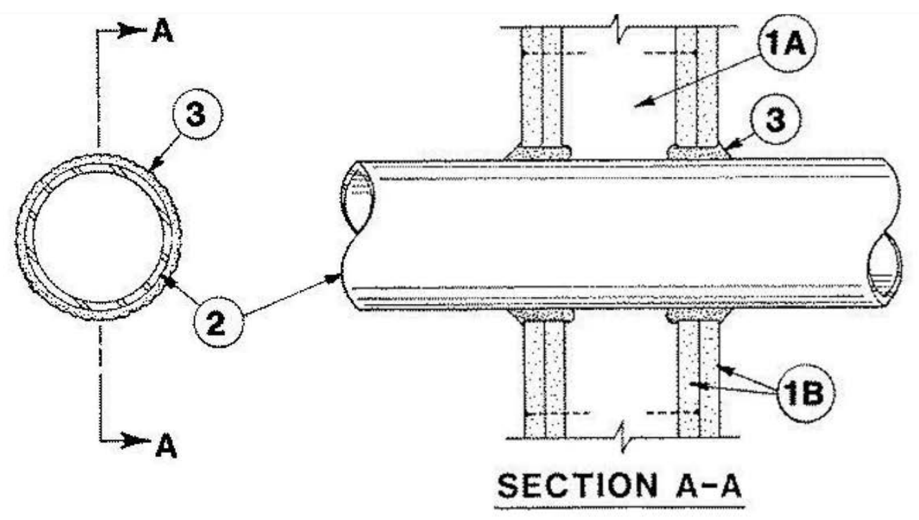
June 15, 2005

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft

L Rating At 400 F — less than 1 CFM/sq ft



1. **Wall Assembly** — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs** — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board*** — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

   C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

   D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

   E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

   F. **Through Penetrating Product*** — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

   1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   OMEGA FLEX INC

   2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   GASTITE, DIV OF TITEFLEX

   3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   WARD MFG L L C

3. **Fill, Void or Cavity Material* — Caulk or Sealant** — Min 5/8. , 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

INTERIOR 1-HR WALL PENETRATION

1

CDCR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

TYRONE S. COATS
NO. C 30440
REN. 10-31-19

TYRONE COATS
SENIOR ARCHITECT

JOHN RODRIGUEZ
SUPERVISING ARCHITECT

COR
24-014

UL DESIGNS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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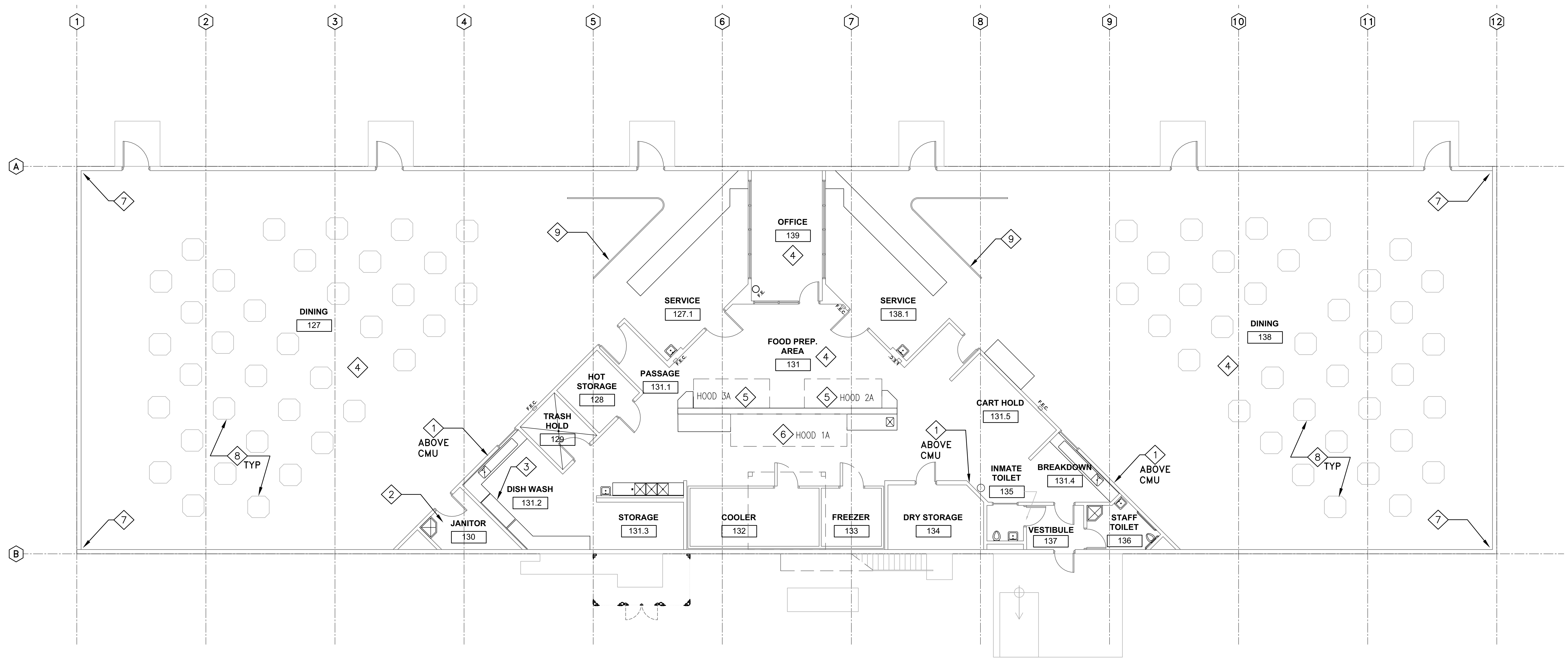
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
G2.1
OF # SHEETS V3



DEMOLITION FLOOR PLAN 1/8"=1'-0" **1**

GENERAL NOTES

1. ABATE ALL MOLD AND BUILDING MATERIALS DAMAGED BY WATER INTRUSION.
2. REMOVE ALL DAMAGED LIGHT FIXTURES, FIRE ALARM DEVICES, SMOKE DETECTORS AND REPLACE IN KIND, REFERENCE ELECTRICAL DRAWINGS.
3. NOT USED
4. LEAD CONTAINING BUILDING MATERIALS
   - 4.1. CREAM PAINT ON WALLS THROUGHOUT
   - 4.2. GRAY PAINT ON METAL
   - 4.3. WHITE/CREAM 4" TILE ON WALL
5. NOT USED
6. STRUCTURAL STEEL MEMBERS ARE PAINTED WITH LEAD PAINT. IF IT IS TO BE IMPACTED, IT NEEDS TO BE CONSIDERED AS LEAD CONTAINING.
7. TEST AND DISPOSE FLUORESCENT LIGHT FIXTURE, TUBES, AND BALLASTS THAT MAY CONTAIN POLYCHORINATED BIPHENYLS ACCORDING TO SPEC SECTION 02 81 00.
8. REMOVE ALL WATER DAMAGED SPRAY APPLIED FIRE PROOFING, CLEAN SURFACE AND PREP FOR REAPPLICATION OF FIRE PROOFING.
9. REMOVE RUST FROM METAL DECK, STRUCTURAL STEEL MEMBERS AND STEEL EMBED PLATES AS DESCRIBED IN DETAILS 5 AND 6 ON SHEET A-8.0.
10. CLEAN AND MOVE OR PROTECT EQUIPMENT AS REQUIRED TO ACCESS AREAS OF BUILDING TO BE REPAIRED. REPLACE EQUIPMENT FOLLOWING REPAIR COMPLETION.
11. FOR ESTIMATING PURPOSES, THE AMOUNT OF INTERIOR MATERIALS TO BE REPLACED SHALL BE APPROXIMATELY 70% OF THE EXISTING AND WILL INCLUDE ALL FINISHES, WALL CONSTRUCTION, DOOR AND WINDOWS, CEILING CONSTRUCTION, FIREPROOFING, EQUIPMENT, STRUCTURAL FRAMING, PLUMBING SYSTEMS, MECHANICAL SYSTEMS, FIRE PROTECTION SYSTEMS, ELECTRICAL SYSTEMS, ETC. EXACT QUANTITIES SHALL BE VERIFIED AFTER THE DEMOLITION AND HAZARDOUS MATERIALS ABATEMENT HAVE BEEN COMPLETED. A COMPLETE INVENTORY OF ALL REQUIRED WORK SHALL BE PROVIDED BY THE CONTRACTOR AND VERIFIED BY THE ARCHITECT, PRIOR TO NEW WORK BEING INSTALLED.

KEY NOTES

1 REMOVE ALL WATER DAMAGED GYPSUM BOARD, PLYWOOD SHEATHING, INSULATION AND FRAMING AT WALLS. CLEAN ALL EVIDENCE OF MOLD OR CORROSION.

2 REMOVE LOOSE QUARRY TILES AND MORTAR DOWN TO CONCRETE SLAB TO ACCOMMODATE PATCH TO MATCH.

3 REMOVE EXISTING DISHWASHER, EXHAUST HOOD, HEAT EXCHANGER AND PIPING TO ACCOMMODATE NEW DISHWASHER INSTALLATION.

4 CLEAN CONCRETE/CMU WALL OF ALL MOLD AND STAINS DUE TO WATER INTRUSION. PAINT TO MATCH EXISTING, AS REQUIRED.

5 REMOVE EXISTING HOOD AND EXHAUST DUCT, SEE MECHANICAL.

6 REMOVE KITCHEN HOOD AND EXHAUST DUCT TO ROOF. SEE MECHANICAL FOR MORE INFORMATION.

7 INSPECT PANEL JOINTS AND TREAT AS REQUIRED, SEE DETAIL 6/A8.0.

8 EXISTING TABLES WITH STOOLS TO REMAIN. CLEAN BEFORE TURNING DINING HALL OVER FOR USE.

9 EXISTING GUARDRAIL TO REMAIN. CLEAN BEFORE TURNING DINING HALL OVER FOR USE.

LEGEND

(D) – DEMO
(E) – EXISTING

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24-3165
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LICENSED ARCHITECT
TYRONE S. COATS
NO. C 30440
REN. 10-31-25
STATE OF CALIFORNIA

TYRONE COATS
SENIOR ARCHITECT

COR
24-014

DEMOLITION FLOOR PLAN
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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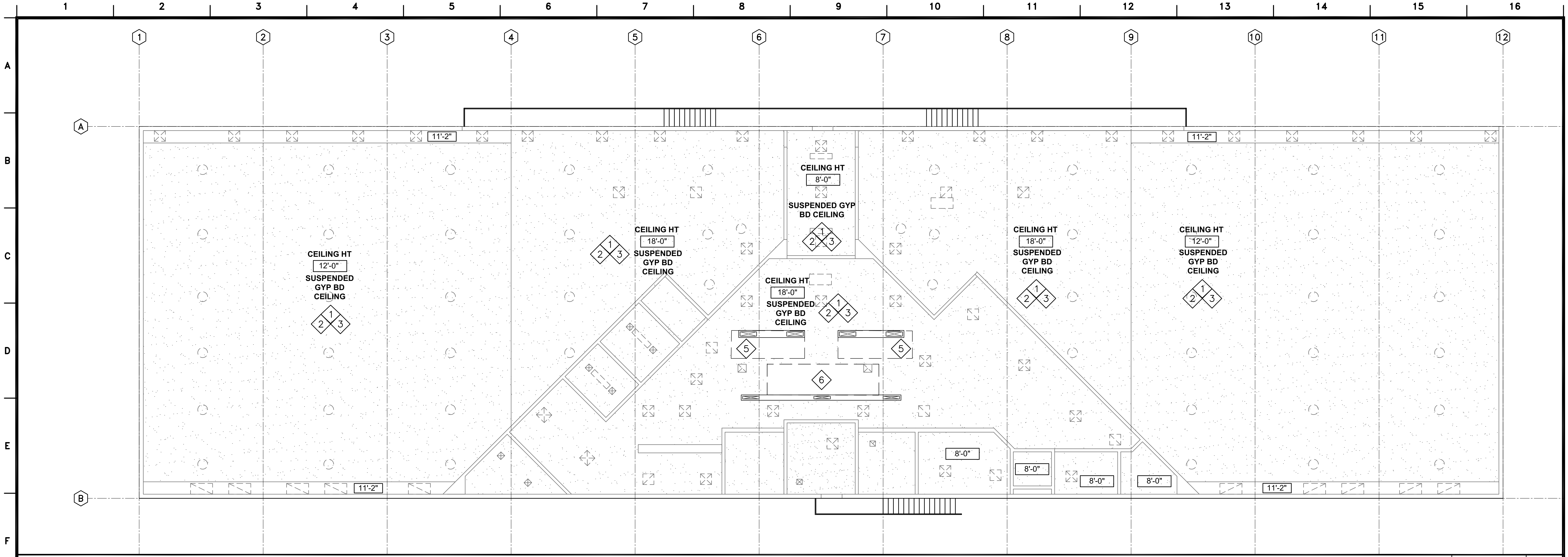
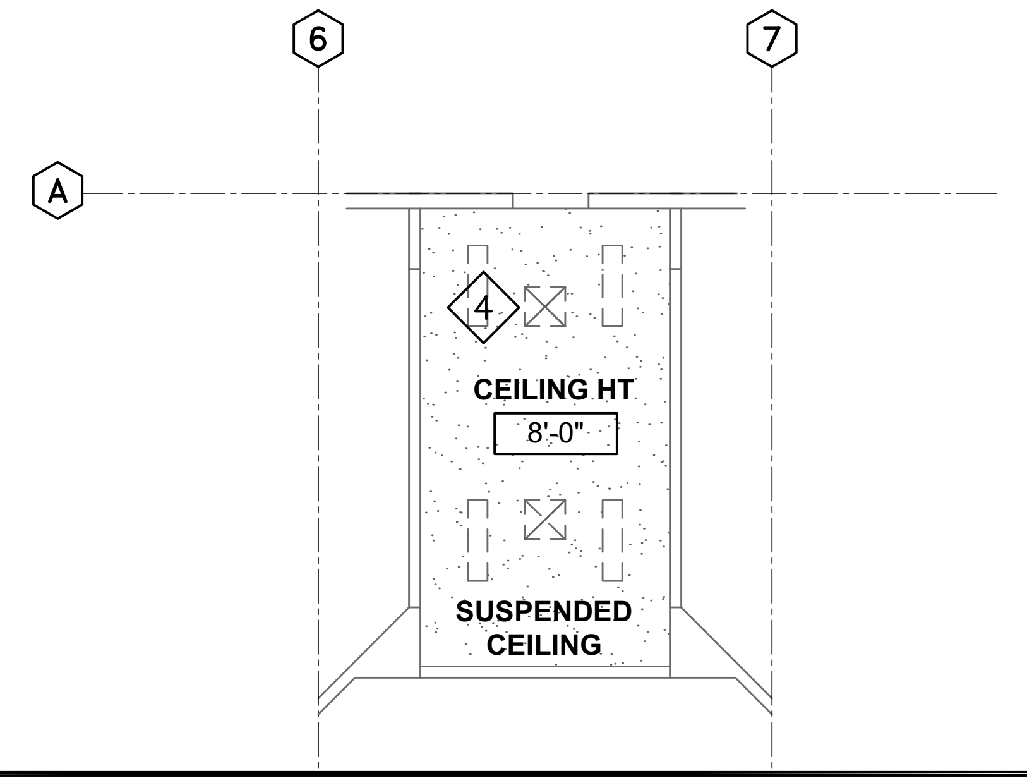


DEMOLITION REFLECTED CEILING PLAN

1/8"=1'-0" 1



DEMOLITION REFLECTED CEILING PLAN - MEZZANINE

1/8"=1'-0" 2

GENERAL NOTES

1. ABATE ALL MOLD AND BUILDING MATERIALS DAMAGED BY WATER INTRUSION.
2. REMOVE ALL DAMAGED LIGHT FIXTURES, FIRE ALARM DEVICES, SMOKE DETECTORS AND REPLACE IN KIND, REFERENCE ELECTRICAL DRAWINGS.
3. NOT USED
4. LEAD CONTAINING BUILDING MATERIALS
    4.1. CREAM PAINT ON WALLS THROUGHOUT
    4.2. GRAY PAINT ON METAL
    4.3. WHITE/CREAM 4" TILE ON WALL
5. NOT USED
6. STRUCTURAL STEEL MEMBERS ARE PAINTED WITH LEAD PAINT. IF IT IS TO BE IMPACTED, IT NEEDS TO BE CONSIDERED AS LEAD CONTAINING.
7. TEST AND DISPOSE FLUORESCENT LIGHT FIXTURE, TUBES, AND BALLASTS THAT MAY CONTAIN POLYCHORINATED BIPHENYLS ACCORDING TO SPEC SECTION 02 81 00.
8. REMOVE ALL WATER DAMAGED SPRAY APPLIED FIRE PROOFING, CLEAN SURFACE AND PREP FOR REAPPLICATION OF FIRE PROOFING.
9. REMOVE RUST FROM METAL DECK, STRUCTURAL STEEL MEMBERS AND STEEL EMBED PLATES AS DESCRIBED IN DETAILS 5 AND 6 ON SHEET A-8.0.
10. CLEAN AND MOVE OR PROTECT EQUIPMENT AS REQUIRED TO ACCESS AREAS OF BUILDING TO BE REPAIRED. REPLACE EQUIPMENT FOLLOWING REPAIR COMPLETION.
11. FOR ESTIMATING PURPOSES, THE AMOUNT OF INTERIOR MATERIALS TO BE REPLACED SHALL BE APPROXIMATELY 30% OF THE EXISTING AND WILL INCLUDE ALL FINISHES, WALL CONSTRUCTION, DOOR AND WINDOWS, CEILING CONSTRUCTION, FIREPROOFING, EQUIPMENT, STRUCTURAL FRAMING, PLUMBING SYSTEMS, MECHANICAL SYSTEMS, FIRE PROTECTION SYSTEMS, ELECTRICAL SYSTEMS, ETC. EXACT QUANTITIES SHALL BE VERIFIED AFTER THE DEMOLITION AND HAZARDOUS MATERIALS ABATEMENT HAVE BEEN COMPLETED. A COMPLETE INVENTORY OF ALL REQUIRED WORK SHALL BE PROVIDED BY THE CONTRACTOR AND VERIFIED BY THE ARCHITECT, PRIOR TO NEW WORK BEING INSTALLED.

KEY NOTES

1	REMOVE ALL WATER DAMAGED GYPSUM BOARD CEILING, SOFFITS AND ASSOCIATED FRAMING. CLEAN ALL EVIDENCE OF MOLD OR CORROSION.
2	REMOVE ALL LOOSE SPRAY APPLIED FIREPROOFING AND CLEAN OFF SURFACE RUST.
3	CLEAN CONCRETE/CMU WALL OF ALL MOLD AND STAINS DUE TO WATER INTRUSION. PAINT TO MATCH EXISTING, AS REQUIRED.
4	REMOVE ALL DAMAGED CEILING TILE AND DAMAGED PORTIONS OF SUSPENDED CEILING GRID.
5	REMOVE KITCHEN HOOD AND EXHAUST DUCT TO ROOF. SEE MECHANICAL FOR MORE INFORMATION.
6	REMOVE EXISTING HOOD AND DUCT. SEE MECHANICAL FOR MORE INFORMATION.

LEGEND

(D) – DEMO
(E) – EXISTING

⬚	EXISTING 1'X4' LIGHTING TO BE REMOVED
◌	EXISTING PENDANT LIGHTING TO BE REMOVED
⊠	HVAC SUPPLY REGISTER TO BE REMOVED
⊠	HVAC RETURN REGISTER TO BE REMOVED

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REN. 10-31-25

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SENIOR ARCHITECT

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CALIFORNIA STATE PRISON CORCORAN
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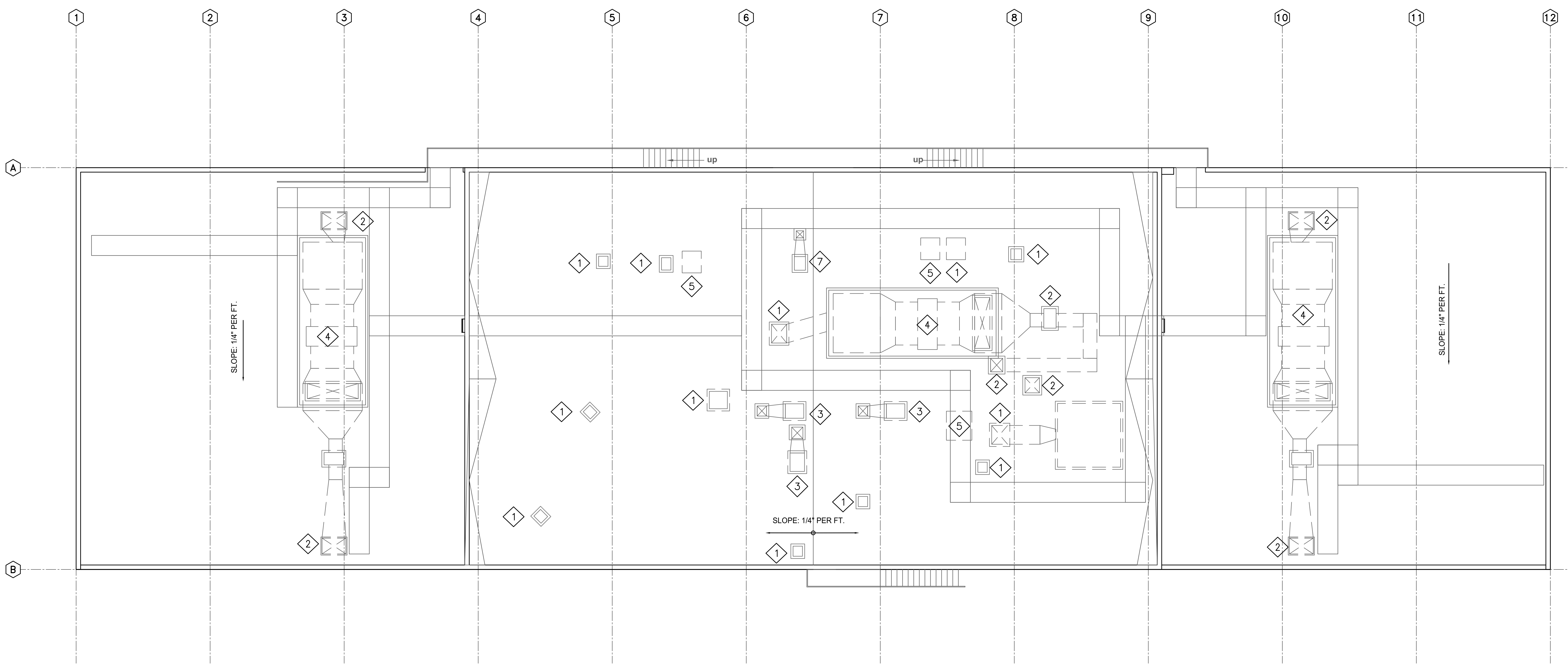

DEMOLITION ROOF PLAN - LOW / MEZZANINE

1/8"=1'-0"

1

GENERAL NOTES

1. REMOVE ALL MECHANICAL FANS AND SYSTEMS, SEE MECHANICAL DRAWINGS FOR EXTENT.
2. PATCH AND REPAIR EXISTING PVC ROOFING SYSTEM AS REQUIRED DUE TO MECHANICAL EQUIPMENT DEMOLITION.
3. INSTALL NEW CRICKETS AT NEW MECHANICAL CURBS. SEE SHEET A2.3.
4. CLEAN MOLD OFF ALL PIPING INSULATION. IF CLEANING IS UNAVAILABLE, REPLACE PIPING INSULATION AS REQUIRED.

KEY NOTES

◇1 REMOVE MECHANICAL EQUIPMENT, DUCT AND CURB. SEE MECHANICAL FOR MORE EXTENT AND OPENING USE.

◇2 REMOVE EXISTING CURB. PATCH OPENING PER SHEET A2.3.

◇3 REMOVE KITCHEN HOOD AND EXHAUST DUCT TO ROOF. SEE MECHANICAL FOR MORE INFORMATION.

◇4 REMOVE MAKE-UP AIR UNIT ON THE ROOF IN ITS ENTIRETY. SEE MECHANICAL FOR EXTENT OF EXISTING CURB AND PLATFORM DEMOLITION

◇5 CREATE NEW OPENING IN ROOF FOR SCHEDULED EQUIPMENT, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

LEGEND

(D) – DEMO
(E) – EXISTING

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DEMOLITION ROOF PLAN - LOW / MEZZANINE
FACILITY III A KITCHEN REPAIRS

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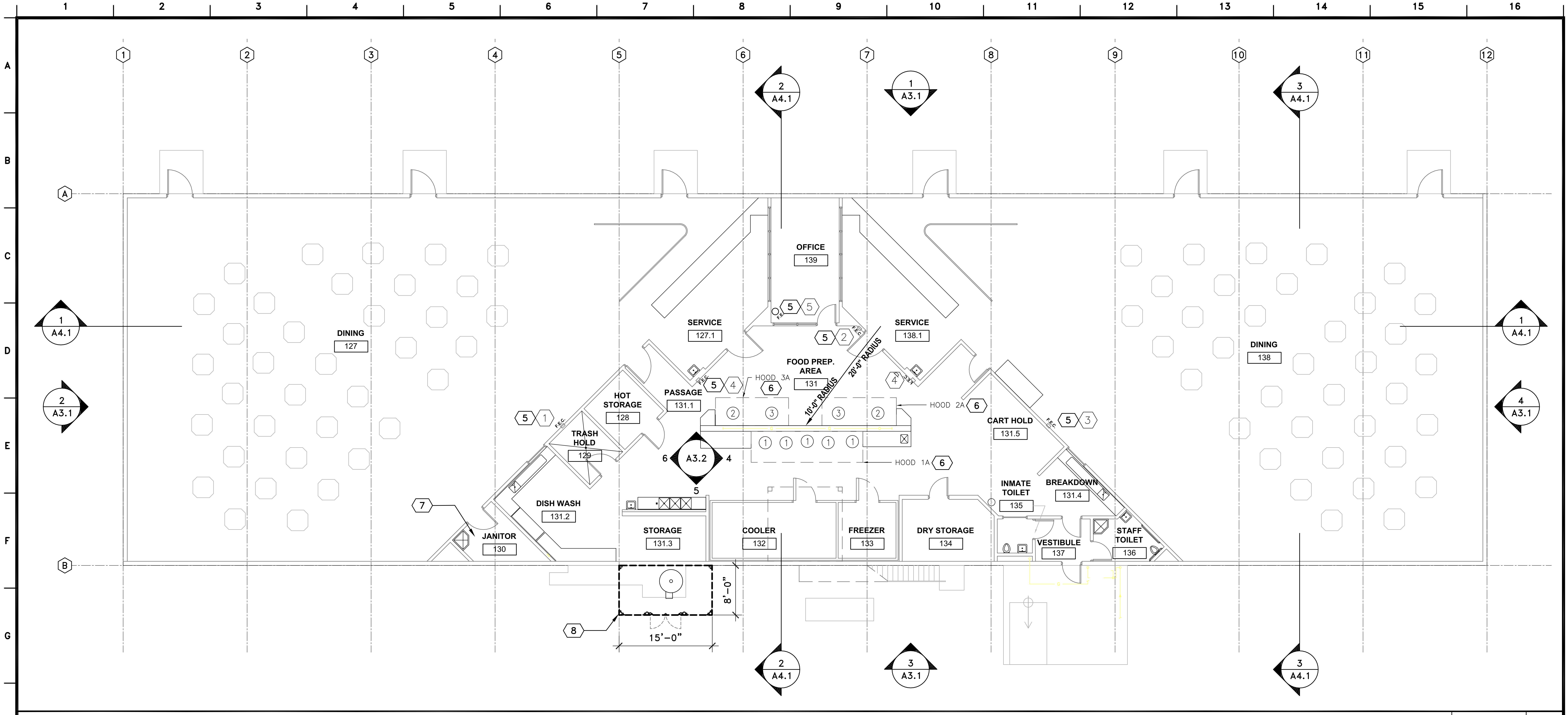

FLOOR PLAN

1/8"=1'-0"

1

E EQUIPMENT INFORMATION - 307A

ITEM NUMBER	QTY	DESCRIPTION	MAKE/MODEL	DIMS: LxWxH IN.	DESCRIPTION
①	5	OVEN	VULCAN	41x44x69½	ELECTRIC EQUIPMENT
②	2	GRIDDLE	VULCAN	72x31½x15½	ELECTRIC EQUIPMENT
③	2	SKILLET	CLEVELAND	48x33½x42	ELECTRIC EQUIPMENT

GENERAL NOTES

1. REPLACE ALL DAMAGED LIGHT FIXTURES, FIRE ALARM DEVICES, SMOKE DETECTORS AND REPLACE IN KIND, REFERENCE ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
2. ALLOW INTERIOR OF BUILDING TO AIR OUT AND DRY FOLLOWING THE REMOVAL OF ALL THE WATER DAMAGED MATERIALS AND CLEANING OF ALL TRACES OF MOLD PER ENVIRONMENTAL COMPLIANCE UNIT.
3. REPLACE SPRAY APPLIED FIREPROOFING WHEREVER IT WAS REMOVED DURING THE DEMOLITION PHASE TO PROVIDE 2-HR RATING PER 1/G2.0.
4. PROVIDE ACCESS PANELS WITH SECURITY FASTENER WHERE REQUIRED. COORDINATE WITH MANUFACTURER FOR REQUIRED FRAMING.
5. CONTROL SYSTEM, SEE MECHANICAL SHEET M2.1 AND ELECTRICAL SHEET E2.1.

KEY NOTES

1. REPLACE DAMAGED GYPSUM BOARD AT WALLS, TEXTURE AND PAINT TO MATCH EXISTING
2. CLEAN ALL WALLS AND FLOORING. WHERE REQUIRED, PAINT TO MATCH EXISTING
3. REPLACE APPLY SPRAY APPLIED FIREPROOFING TO PROVIDE REQUIRED RATING PER 1/G2.0 AT ROOF DECK, BEAMS & COLUMNS
4. REPAINT OR SEAL CONCRETE/CMU WALL TO MATCH EXISTING, AS REQUIRED FOLLOWING WATER INTRUSION REPAIR AND CLEAN UP
5. EXISTING FIRE EXTINGUISHER LOCATION IN WALL MOUNT CABINET SEE F.E. SCHEDULE FOR ADDITIONAL INFORMATION ON THIS SHEET
6. EXISTING KITCHEN HOOD. SEE MECHANICAL DRAWINGS FOR HOOD AND ANSUL SYSTEM INFORMATION
7. PATCH TO MATCH QUARRY TILES FLOORING FLUSH WITH EXISITNG
8. CONSTRUCT A NEW STEEL ENCLOSURE WITH SLOPE TOP TO PROTECT NEW WATER HEATER, SEE STRUCTURAL SHEET S2.4. PAINT TO MATCH EXISTING ENCLOSURE.

LEGEND

FIRE EXTINGUISHER FE INFORMATION

SYMBOL	TAG CERT. NO.	TYPE	MODEL NO.	UL REF# (DRY CHEM)	DATE LAST INSPECTED	SERVE	DISTANCE
1	EE-22629	B-C-D (E-2449)	AMEREX B260	E-73402555	x	DINING	14 FEET
2	EE-22629	B-C-D (E-2449)	AMEREX 456	HW-410090	x	KITCHEN	14 FEET
3	EE-22629	B-C-D (E-2449)	AMEREX 456	HL-458439	x	DINING	N/A
4	EE-22629	B-C-D (E-2449)	AMEREX 456	HL-458439		KITCHEN	18'-9" FEET
5	EE-2199	K (KS-600)	KITCHEN ONE	AB-097344		KITCHEN	19'-6" FEET

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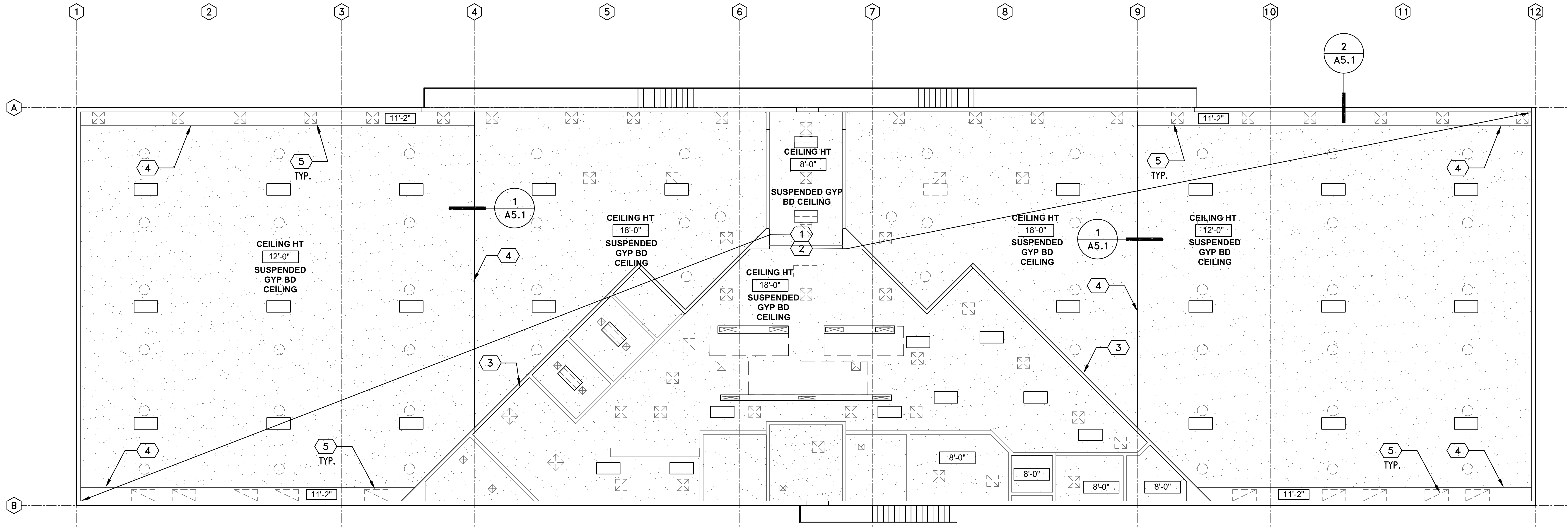
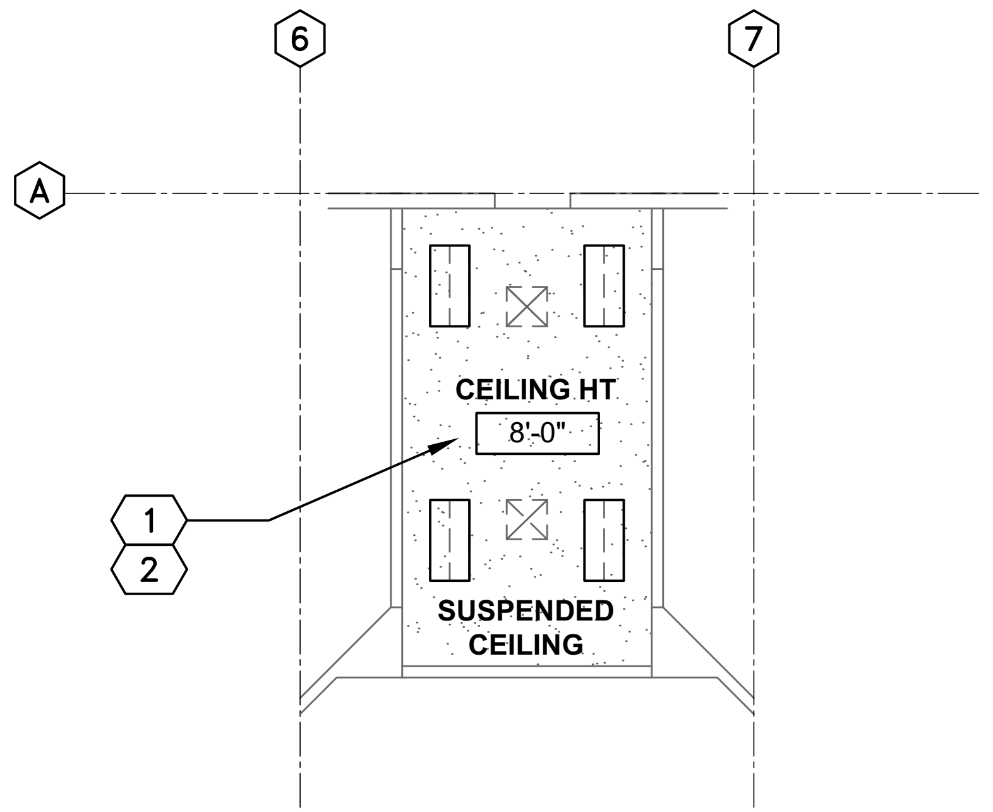


REFLECTED CEILING PLAN

1/8"=1'-0" 1



REFLECTED CEILING PLAN - MEZZANINE

1/8"=1'-0" 2

GENERAL NOTES

1. REPLACE ALL DAMAGED LIGHT FIXTURES, FIRE ALARM DEVICES, SMOKE DETECTORS AND REPLACE IN KIND, REFERENCE ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
2. ALLOW INTERIOR OF BUILDING TO AIR OUT/DRY FOLLOWING THE REMOVAL OF ALL THE WATER DAMAGED MATERIALS AND CLEANING OF ALL TRACES OF MOLD.
3. PROVIDE SPRAY APPLIED FIREPROOFING, PER 1/G2.0, IN ALL AREAS WHERE WATER DAMAGED FIREPROOFING WAS REMOVED DURING THE DEMOLITION PHASE. ENSURE ANY RUST HAS BEEN TREATED AND SURFACES ARE DRY.
4. FOR ESTIMATING PURPOSES, THE AMOUNT OF INTERIOR MATERIALS TO BE REPLACED SHALL BE APPROXIMATELY 30% OF THE EXISTING AND WILL INCLUDE ALL FINISHES, WALL CONSTRUCTION, DOOR AND WINDOWS, CEILING CONSTRUCTION, FIREPROOFING, EQUIPMENT, STRUCTURAL FRAMING, PLUMBING SYSTEMS, MECHANICAL SYSTEMS, FIRE PROTECTION SYSTEMS, ELECTRICAL SYSTEMS, ETC. EXACT QUANTITIES SHALL BE VERIFIED AFTER THE DEMOLITION AND HAZARDOUS MATERIALS ABATEMENT HAVE BEEN COMPLETED. A COMPLETE INVENTORY OF ALL REQUIRED WORK SHALL BE PROVIDED BY THE CONTRACTOR AND VERIFIED BY THE ARCHITECT, PRIOR TO NEW WORK BEING INSTALLED.
5. INSTALL GYPSUM BOARD ON EXISTING FRAMING, TAPE AND TEXTURE TO MATCH AND ALIGN WITH EXISTING, REPLACE ANY PORTION OF DAMAGED FRAMING IN KIND, THROUGHOUT ENTIRE BUILDING. CEILING HEIGHT TO MATCH ORIGINAL CONSTRUCTION.
6. PAINT GYPSUM BOARD PER SPEC SECTION 09 90 00 – PAINTING AND COATING

KEY NOTES

1. INSTALL APPLY SPRAY APPLIED FIREPROOFING TO PROVIDE 2-HR RATING PER 1/G2.0 UL REQUIREMENT, THROUGHOUT.
2. REPLACE CEILING AND SOFFIT FRAMING WHERE CORRODED FRAMING WAS REMOVED. INSTALL GYPSUM BOARD ON EXISTING CEILING FRAMING, TAPE AND TEXTURE TO MATCH AND ALIGN WITH ORIGINAL CONSTRUCTION REPLACE ANY PORTION OF DAMAGED FRAMING IN KIND.
3. NEW GYPSUM BOARD AT EXISTING WALL FRAMING ABOVE PARTIAL HEIGHT CMU WALL.
4. LINE OF SOFFIT TO MATCH LOCATION AND HEIGHT OF ORIGINAL CONSTRUCTION.
5. SUPPLY AIR OR RETURN AIR GRILL. LOCATE PER MECHANICAL DRAWINGS. PROVIDE FRAMED OPENING TO ACCOMMODATE.

LEGEND

▭	2'X4' LED RECESSED LIGHTING
⊠	HVAC SUPPLY REGISTER
⊠	HVAC RETURN REGISTER

NOTE:
LOCATION OF ITEMS ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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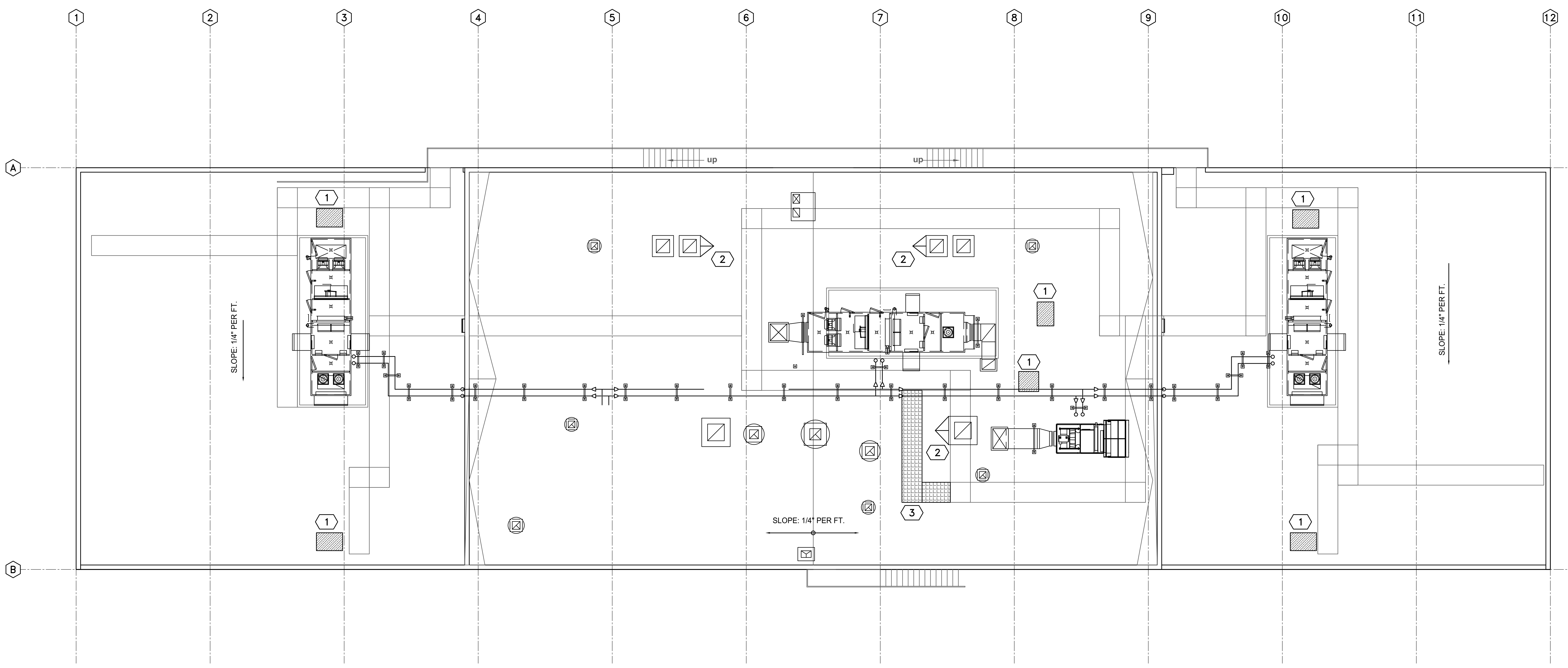

ROOF PLAN - LOW / MEZZANINE

1/8"=1'-0"

1

GENERAL NOTES

1. PROJECT #18-047 INSTALLED A NEW ROOF DURING THE 1ST QUARTER OF 2024. ALL PATCHING TO MATCH EXISTING ROOF ASSEMBLY CONSISTING OF THE FOLLOWING:
   - PROVIDE FULLY ADHERED PVC ROOFING MEMBRANE WITH BACKING OVER 1/2" COVER/PROTECTION BOARD OVER RIGID INSULATION (INSULATION TO MEET MINIMUM R-30 RATING VALUE) OVER THERMAL BARRIER BOARD OVER VAPOR RETARDER OVER EXISTING METAL DECK.
2. WHERE CONDUITS ARE TO BE REPLACED, PROVIDE PROPER VERTICAL HEIGHT CLEARANCE ABOVE FINISHED ROOFING AS REQUIRED BY ROOFING MFR. FOR PROPER FLASHING. SEE DETAIL 9/A-8.0 AND/OR 12/A-8.0 TYPICAL.
3. ANY ROOF OPENINGS NOT FILLED WITH NEW CONDUITS OR EQUIPMENT SHALL BE FILLED WITH INKIND MATERIAL TO ENSURE UL DESIGN NO. P701 IS MAINTAINED. SEE LISTING ON SHEET G2.1.

KEY NOTES

1	PATCH OPENING WHERE DUCT PENETRATION WAS REMOVED WITH METAL DECKING AS CALLED OUT ON STRUCTURAL DRAWINGS AND ROOF ASSEMBLY TO MATCH EXISTING, GENERAL NOTE NO. 1 AND 11/A8.0
2	NEW CRICKET, WITH $\frac{1}{2}$"/FOOT SLOPE, AT A NEW MECHANICAL CURB.
3	INSTALL NEW WALKWAY PADS AS REQUIRED TO PROVIDE ROUTE AROUND NEW EQUIPMENT. SEE DETAIL 10/A8.0

LEGEND

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CORCORAN, CALIFORNIA 93212

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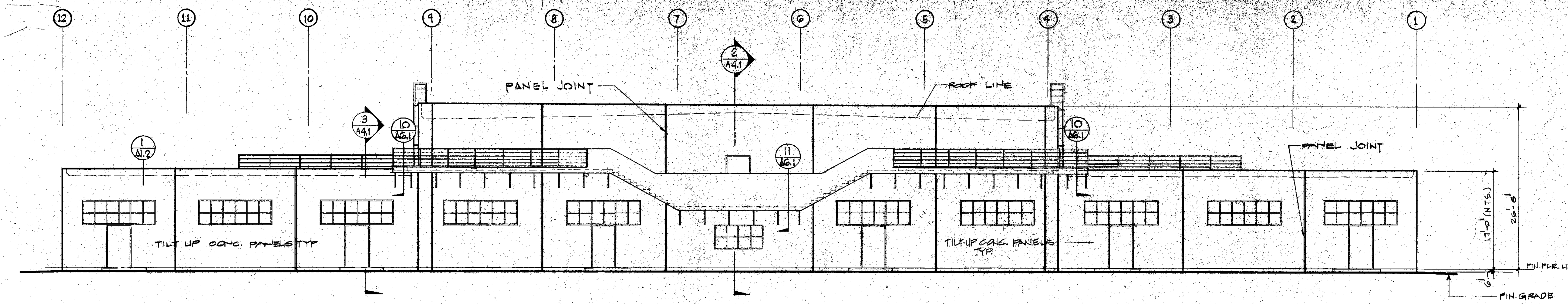
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\0010_A2.3 ROOF PLAN.DWG

REVISIONS

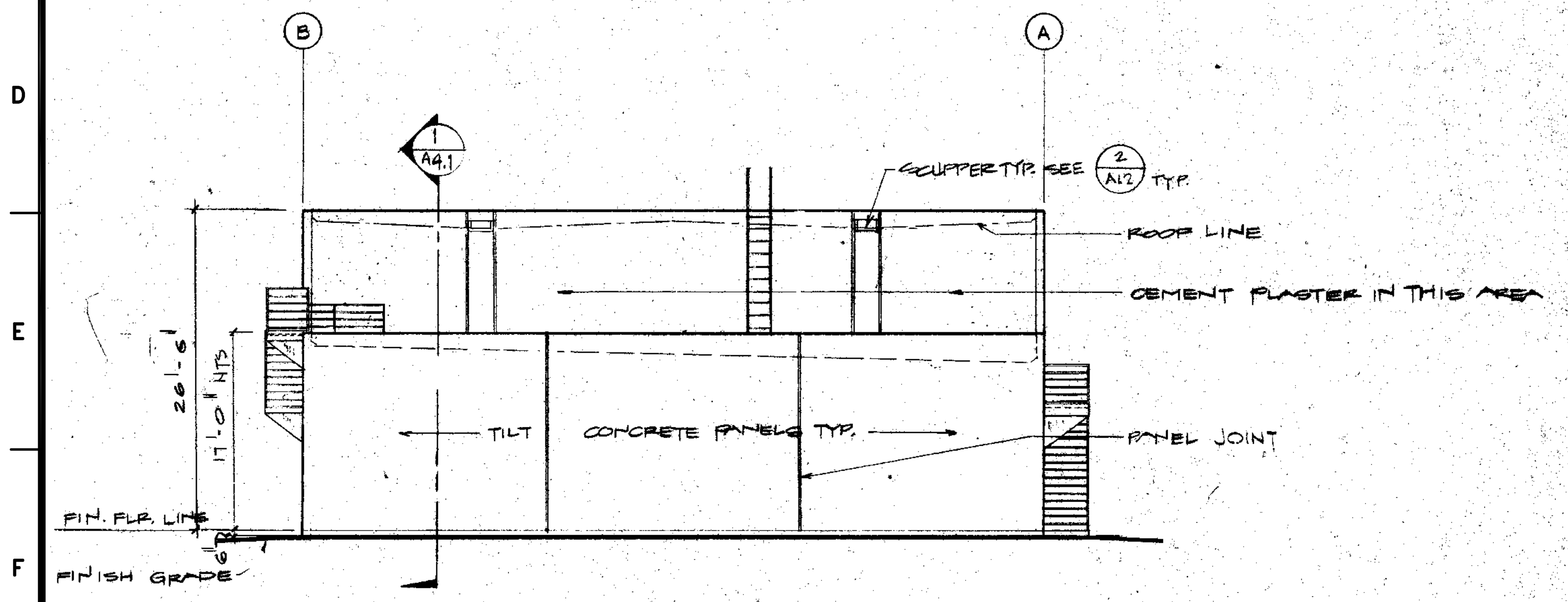
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

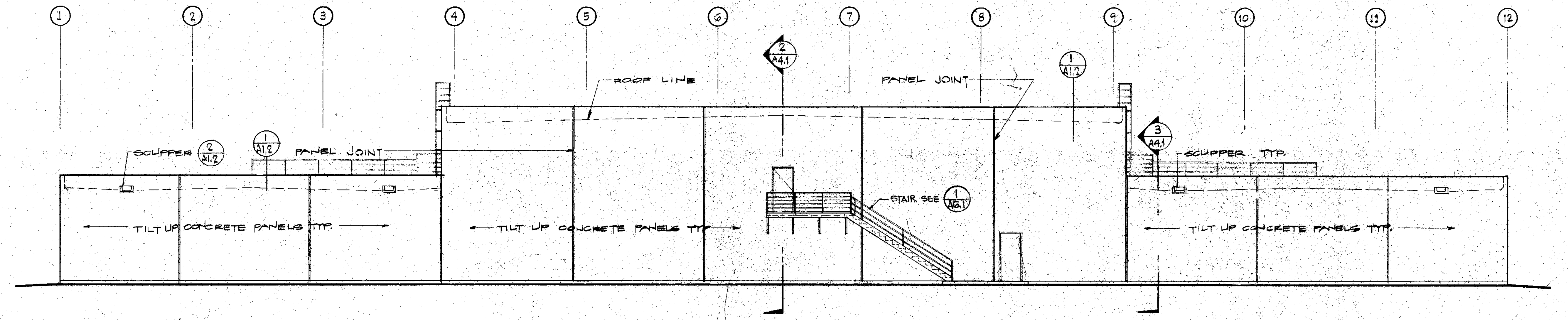
SHEET NUMBER
A2.3
OF # SHEETS V3



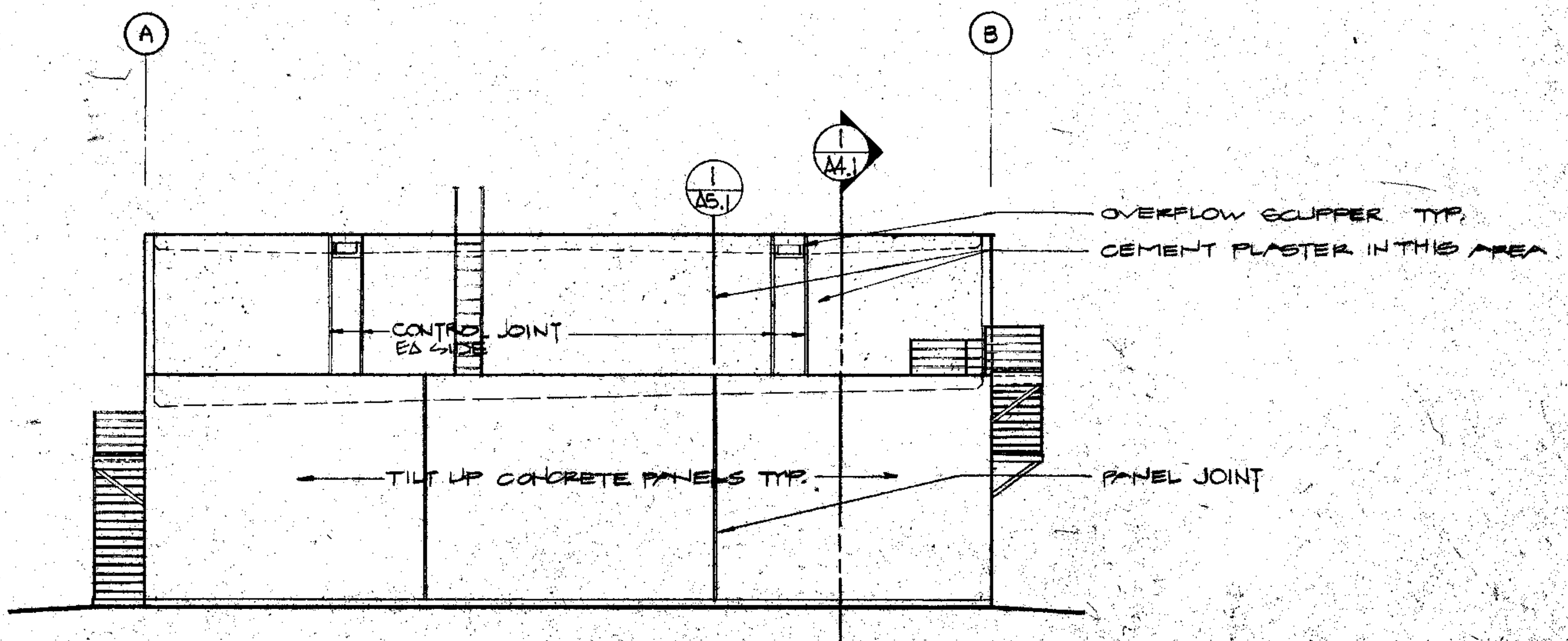
1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



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



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



4 SIDE ELEVATION
SCALE: 1/8" = 1'-0"

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FIRE AND PANIC
DEC 6 1988

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ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

LICENSED ARCHITECT
TYRONE S. COATS
NO. C 30440
REN. 10-31-25
STATE OF CALIFORNIA

TYRONE COATS
SENIOR ARCHITECT

COR
24-014

EXTERIOR ELEVATIONS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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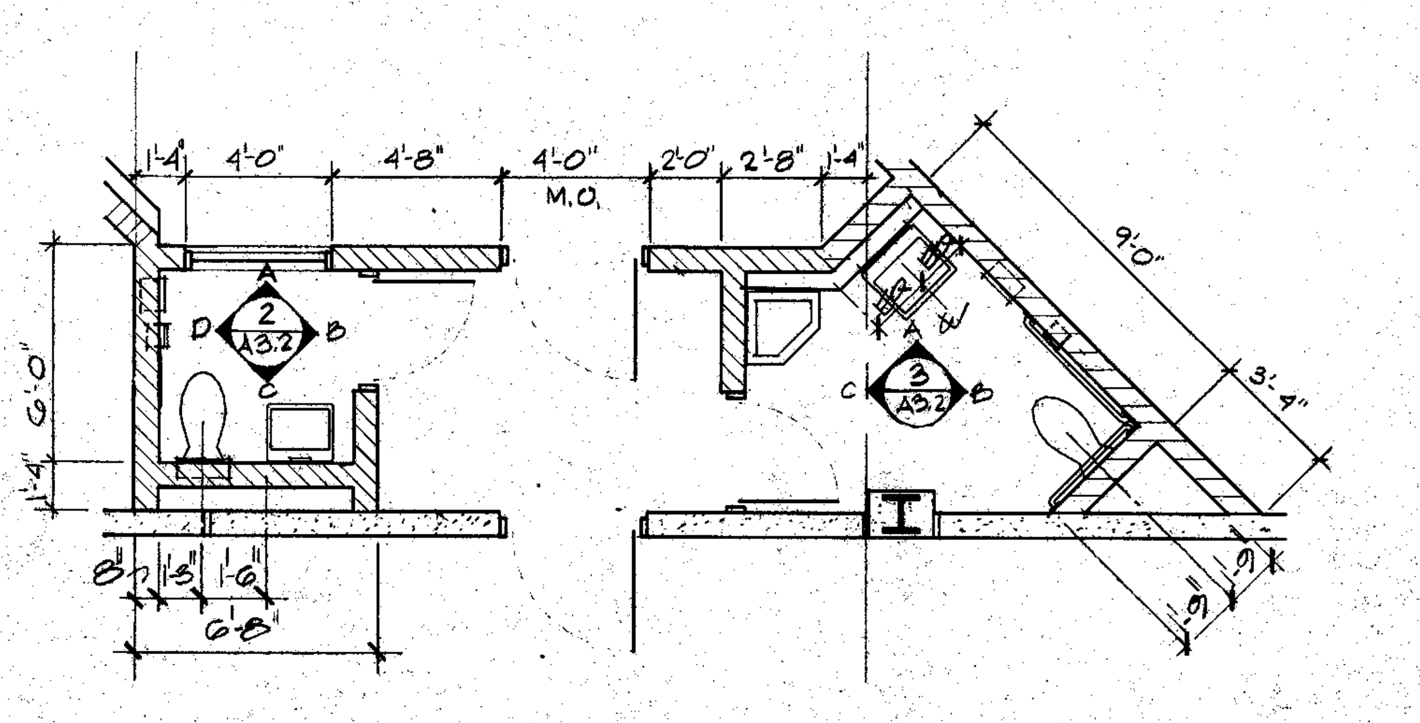
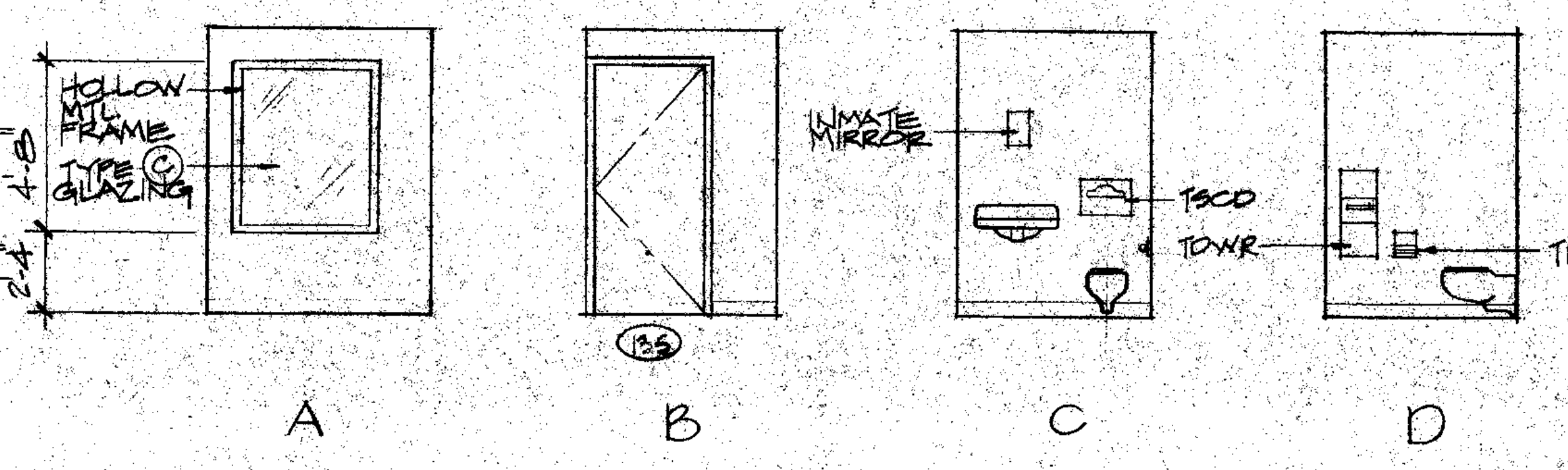
REVISIONS		
REV.	DATE	DESCRIPTION

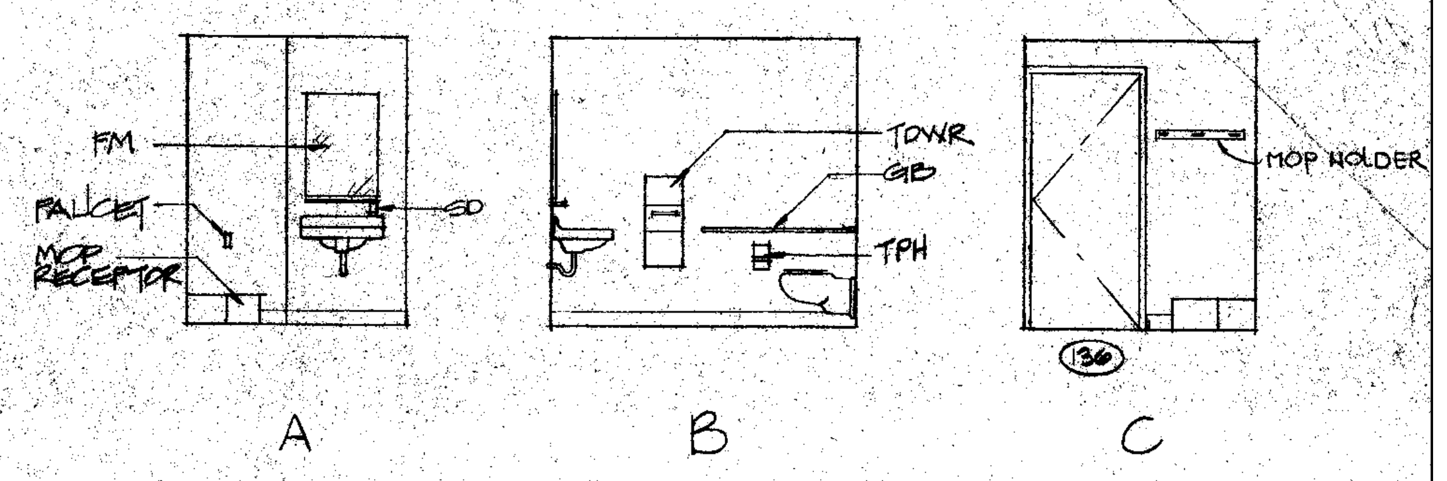
DATE: SEPTEMBER 20, 2024
SHEET NUMBER
A3.1
OF # SHEETS V3



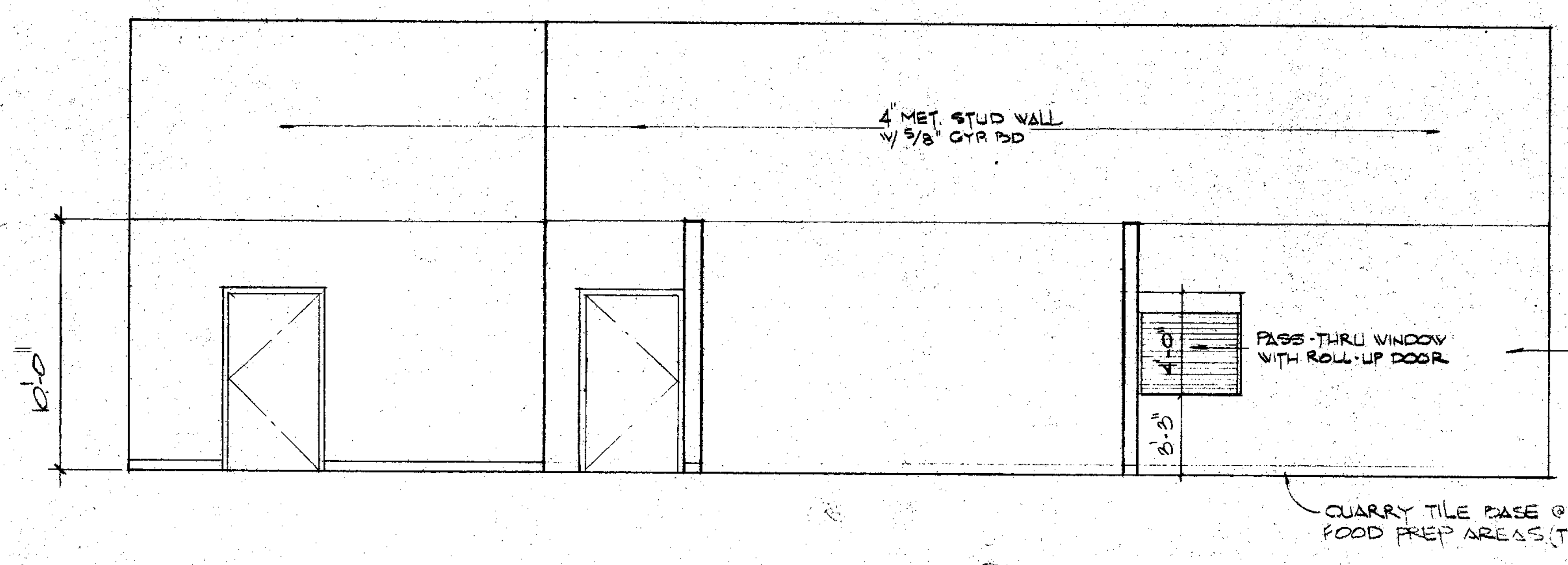
1 **ENLARGED TOILET PLAN**
SCALE: 1/4" = 1'-0"



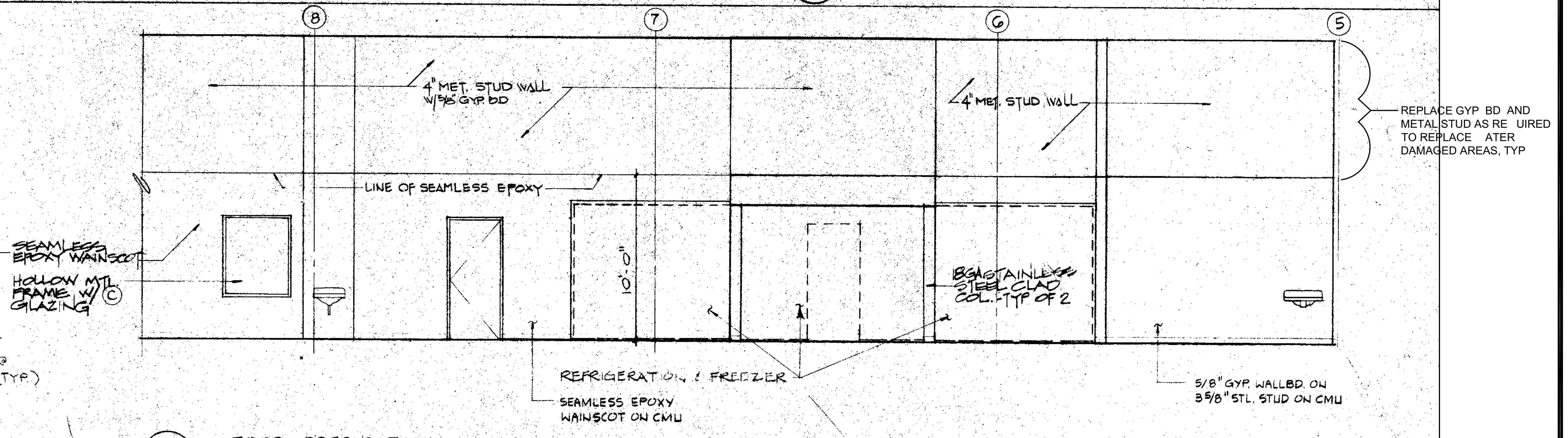
2 RM 135 RESTROOM
1/4" = 1'-0"



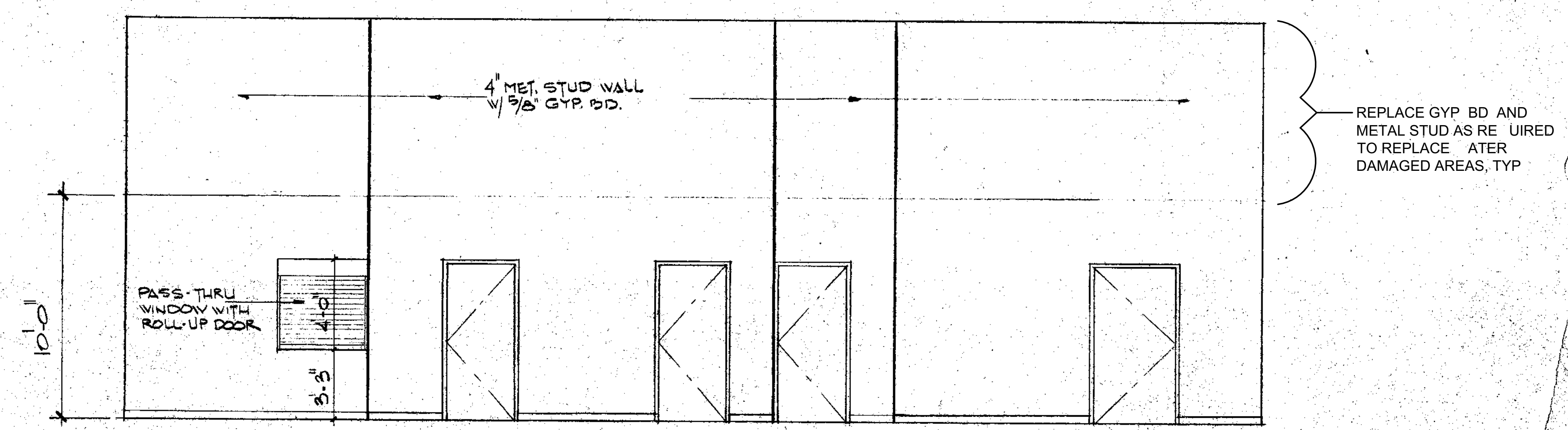
3 RM 136 STAFF RESTROOM
1/4" = 1'-0"


4" MET. STUD WALL W/ 5/8" GYP BD
10'-0"
PASS-THRU WINDOW WITH ROLL-UP DOOR
4'-0"
3'-3"
QUARRY TILE BASE @ FOOD PREP AREAS (TYP)

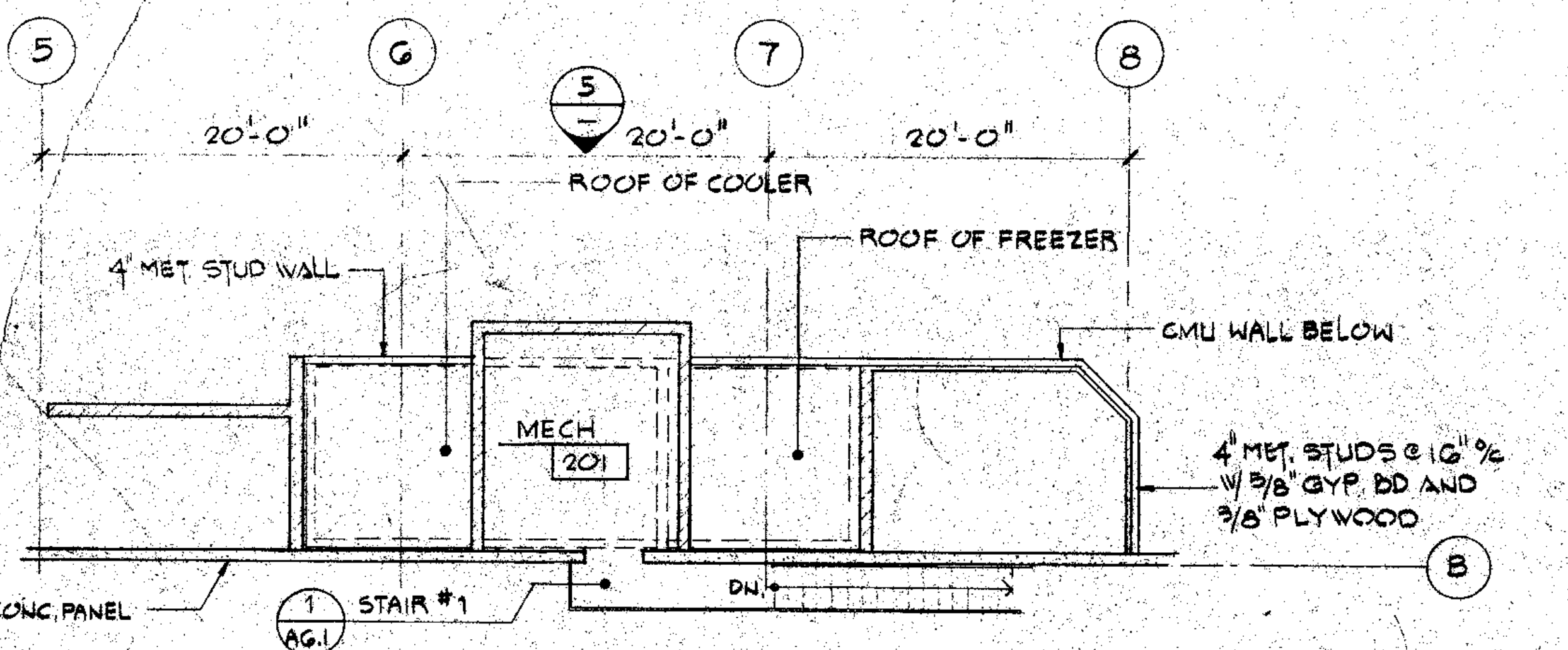
4 FOOD PREP AREA RM. 131
SCALE: 1/4" = 1'-0"


8
7
6
5
4" MET. STUD WALL W/ 5/8" GYP BD
4" MET. STUD WALL
SEAMLESS EPOXY WAINSCOT
HOLLOW MTL FRAME W/ C GLAZING
LINE OF SEAMLESS EPOXY
10'-0"
18GA STAINLESS STEEL CLAD COL. - TYP OF 2
REFRIGERATION & FREEZER
SEAMLESS EPOXY WAINSCOT ON CMU
5/8" GYP. WALLBD. ON 3 5/8" STL. STUD ON CMU
REPLACE GYP BD AND METAL STUD AS RE UIRED TO REPLACE ATER DAMAGED AREAS, TYP

5 FOOD PREPARATION AREA 131
SCALE: 1/4" = 1'-0"


4" MET. STUD WALL W/ 5/8" GYP. BD.
REPLACE GYP BD AND METAL STUD AS RE UIRED TO REPLACE ATER DAMAGED AREAS, TYP
PASS-THRU WINDOW WITH ROLL-UP DOOR
10'-0"
4'-0"
3'-3"

6 FOOD PREP. AREA RM. 131
SCALE: 1/4" = 1'-0"



7 PLAN - CHAIN LINK FENCE ABOVE COOLER/FREEZER & DRY STO.
1/8" = 1'-0"

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CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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TYRONE S. COATS
NO. C 30440
REN. 10-31-25

TYRONE COATS
SENIOR ARCHITECT

INTERIOR ELEVATIONS, RESTROOMS AND COOLER PLAN
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

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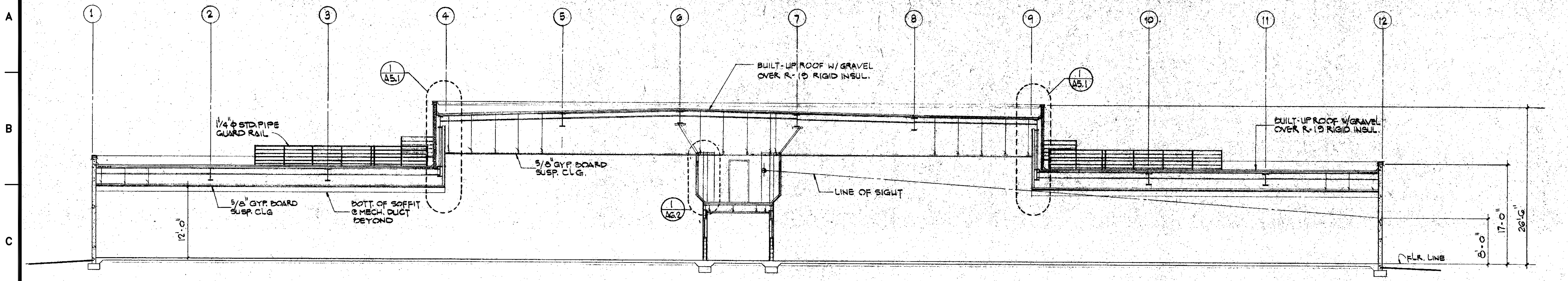
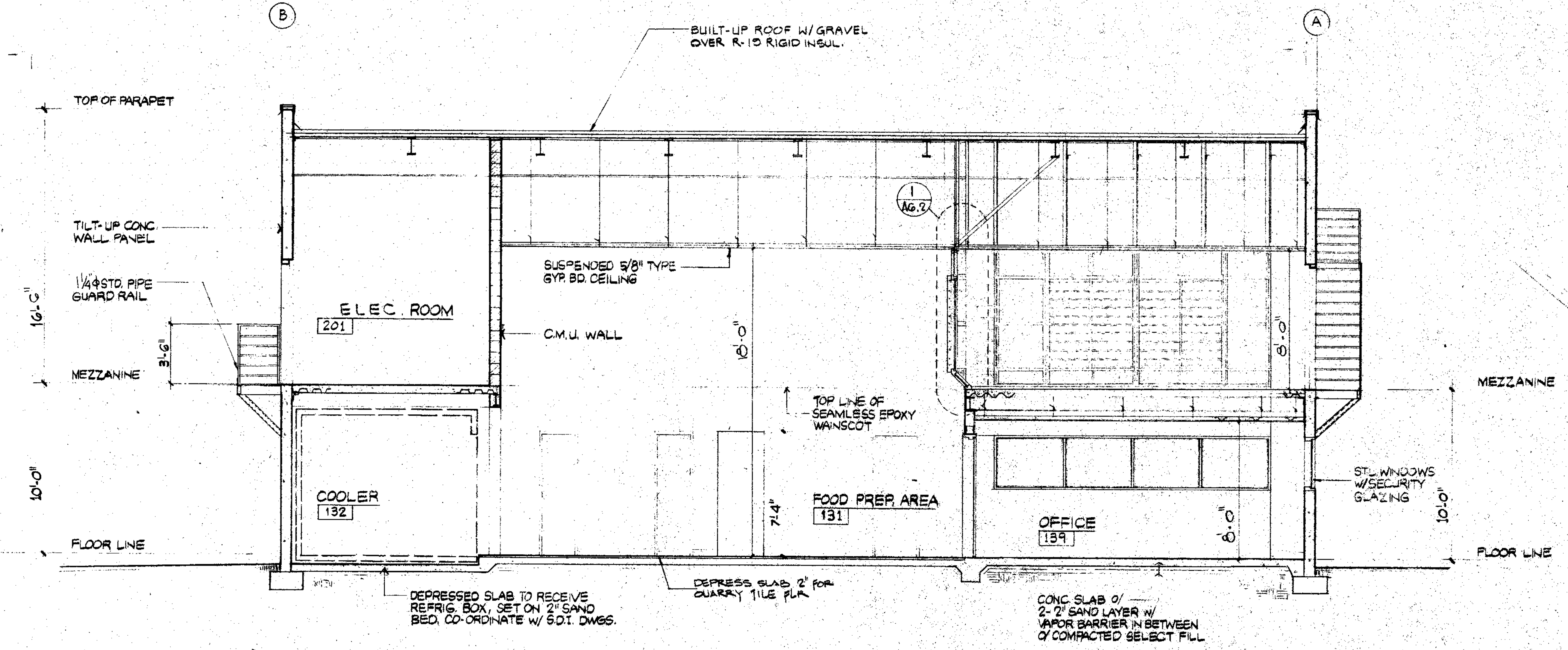
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024
SHEET NUMBER
A3.2
OF # SHEETS V3


1
2
3
4
5
6
7
8
9
10
11
12
1/A5.1
1/A5.1
1/A6.2
BUILT-UP ROOF W/ GRAVEL OVER R-19 RIGID INSUL.
1¼"⌀ STD. PIPE GUARD RAIL
5/8" GYP. BOARD SUSP. CLG.
5/8" GYP. BOARD SUSP. CLG
BOTT. OF SOFFIT @ MECH. DUCT BEYOND
LINE OF SIGHT
BUILT-UP ROOF W/GRAVEL OVER R-19 RIGID INSUL.
12'-0"
8'-0"
17'-0"
26'-6"
FLR. LINE

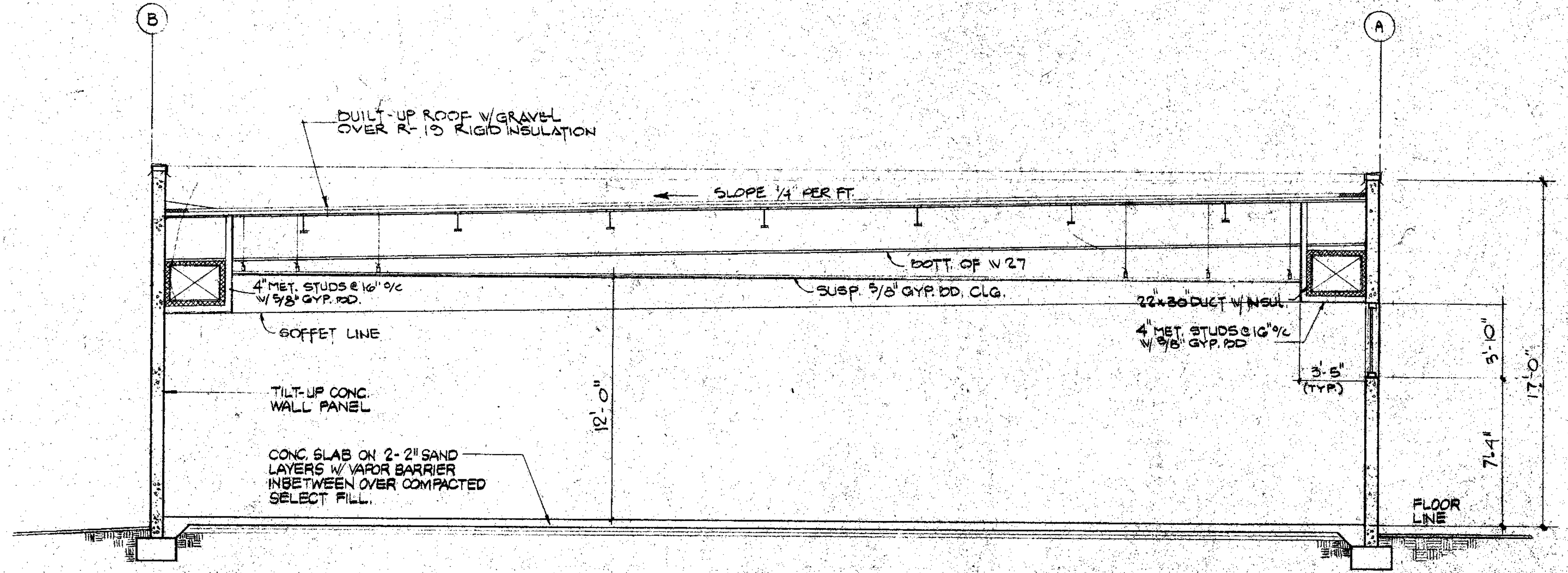
1 LONGITUDINAL SECTION

SCALE 1/8" = 1'-0"


B
A
BUILT-UP ROOF W/ GRAVEL OVER R-19 RIGID INSUL.
TOP OF PARAPET
TILT-UP CONC. WALL PANEL
1¼⌀ STD. PIPE GUARD RAIL
MEZZANINE
16'-6"
3'-6"
10'-0"
FLOOR LINE
ELEC. ROOM
201
C.M.U. WALL
SUSPENDED 5/8" TYPE GYP. BD. CEILING
1/A6.2
10'-0"
7'-4"
TOP LINE OF SEAMLESS EPOXY WAINSCOT
COOLER
132
FOOD PREP. AREA
131
OFFICE
139
8'-0"
8'-0"
MEZZANINE
STL. WINDOWS W/SECURITY GLAZING
10'-0"
FLOOR LINE
DEPRESSED SLAB TO RECEIVE REFRIG. BOX, SET ON 2" SAND BED. CO-ORDINATE W/ S.D.I. DWGS.
DEPRESS SLAB 2" FOR QUARRY TILE FLR
CONC. SLAB O/ 2-2" SAND LAYER W/ VAPOR BARRIER IN BETWEEN O/ COMPACTED SELECT FILL

2 CROSS SECTION

SCALE 1/4" = 1'-0"


B
A
BUILT-UP ROOF W/GRAVEL OVER R-19 RIGID INSULATION
SLOPE ¼" PER FT.
BOTT. OF W27
4" MET. STUDS @ 16" O/C W/ 5/8" GYP. BD.
SUSP. 5/8" GYP. BD. CLG.
22x30 DUCT W/ INSUL.
4" MET. STUDS @ 16" O/C W/ 5/8" GYP. BD
SOFFET LINE
3'-5" (TYP.)
3'-10"
17'-0"
12'-0"
TILT-UP CONC. WALL PANEL
CONC. SLAB ON 2-2" SAND LAYERS W/ VAPOR BARRIER INBETWEEN OVER COMPACTED SELECT FILL.
7'-4"
FLOOR LINE

3 CROSS SECTION

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

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#1336 6/30/2025
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TYRONE S. COATS
NO. C 30440
REN. 10-31-25

TYRONE COATS
SENIOR ARCHITECT

COR
24-014

BUILDING SECTIONS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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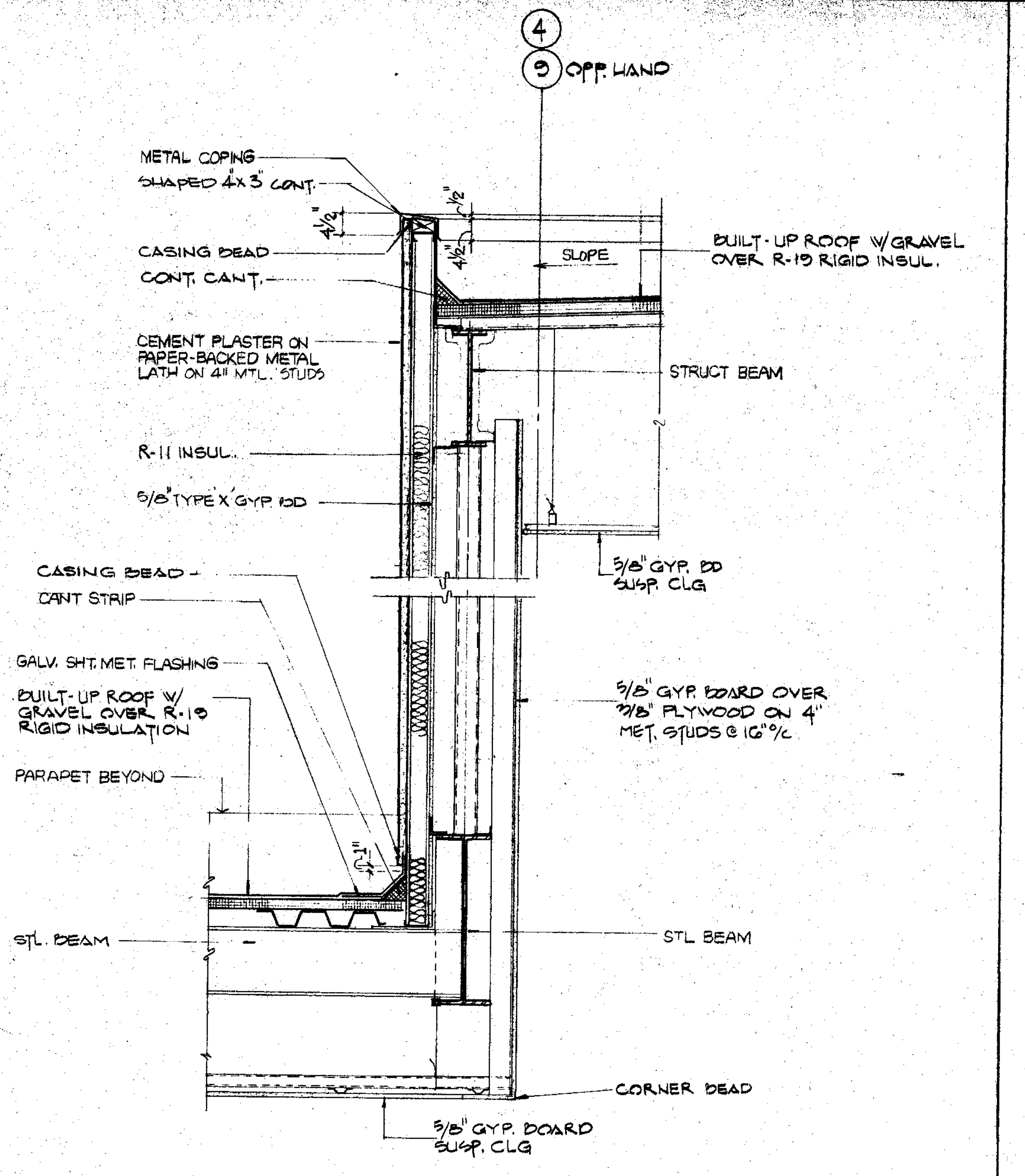
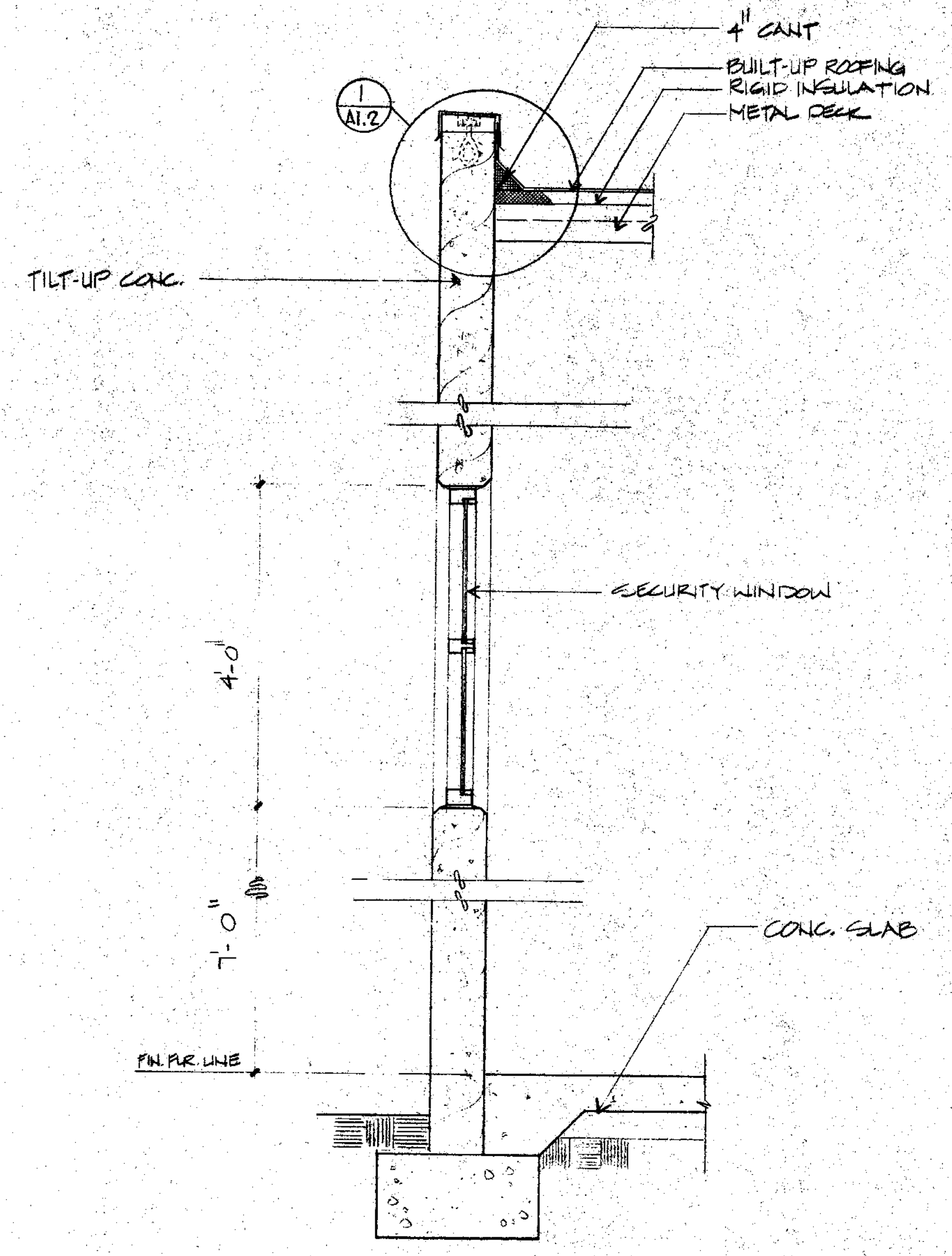
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
A4.1
OF # SHEETS V3



① WALL SECTION
SCALE: 3/4" = 1'-0"



② WALL SECTION
SCALE: 3/4" = 1'-0"

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TYRONE S. COATS
NO. C 30440
REN. 10-31-25

TYRONE COATS
SENIOR ARCHITECT

COR
24-014

WALL SECTIONS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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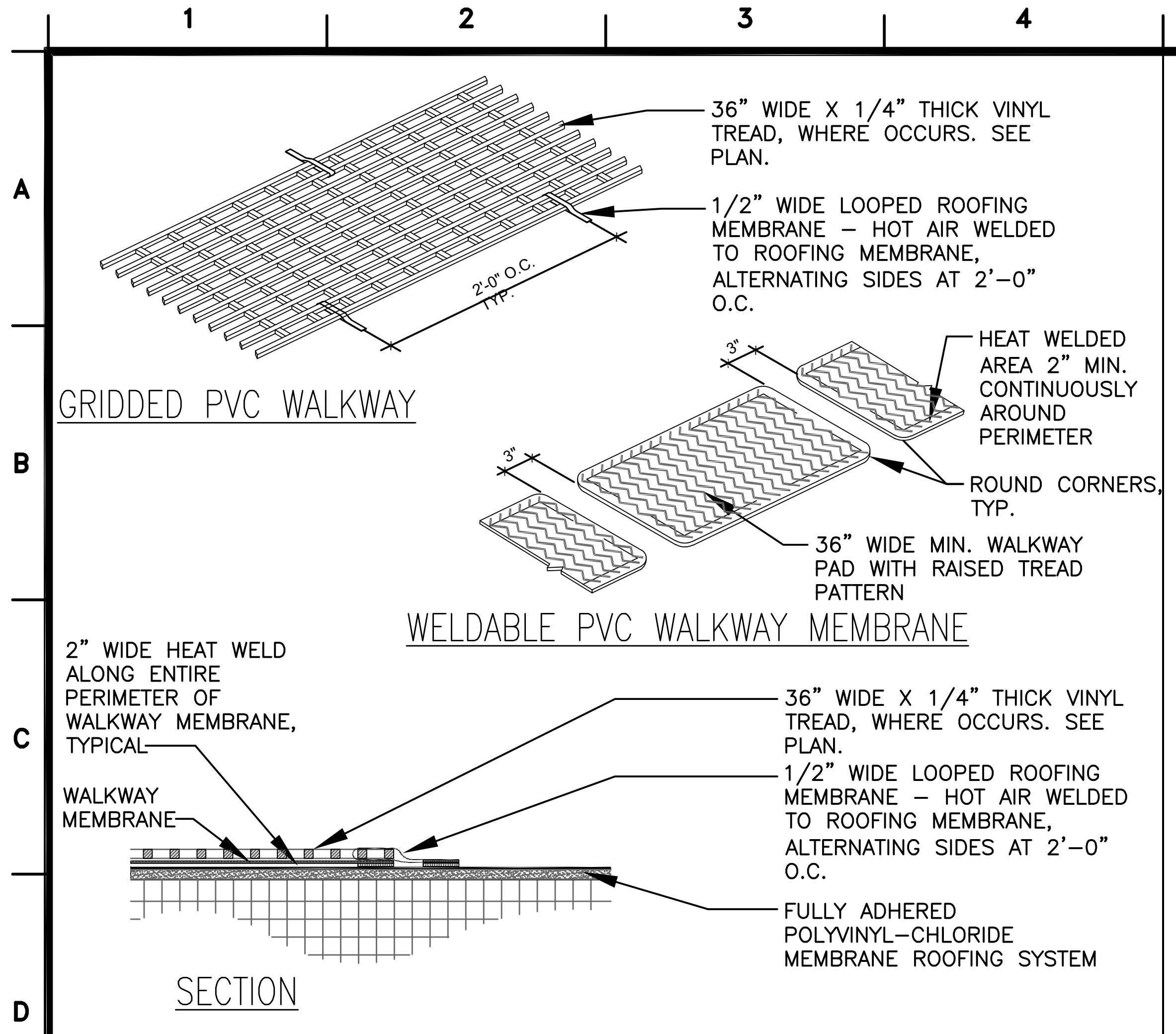
REVISIONS

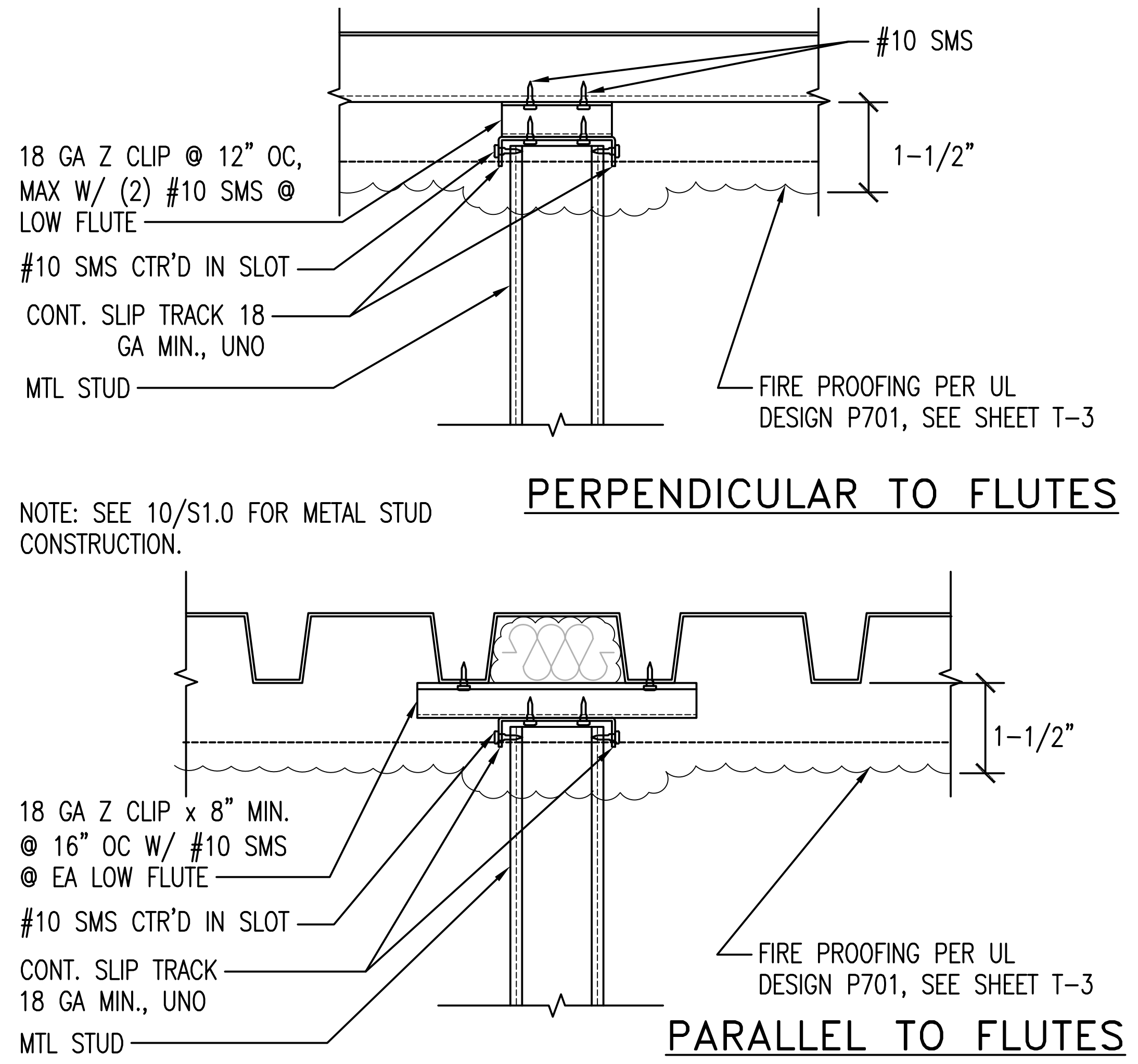
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
A5.1
OF # SHEETS V3


36" WIDE X 1/4" THICK VINYL TREAD, WHERE OCCURS. SEE PLAN.
1/2" WIDE LOOPED ROOFING MEMBRANE – HOT AIR WELDED TO ROOFING MEMBRANE, ALTERNATING SIDES AT 2'–0" O.C.
2'-0" O.C. TYP.
GRIDDED PVC WALKWAY
3"
3"
HEAT WELDED AREA 2" MIN. CONTINUOUSLY AROUND PERIMETER
ROUND CORNERS, TYP.
36" WIDE MIN. WALKWAY PAD WITH RAISED TREAD PATTERN
WELDABLE PVC WALKWAY MEMBRANE
2" WIDE HEAT WELD ALONG ENTIRE PERIMETER OF WALKWAY MEMBRANE, TYPICAL
WALKWAY MEMBRANE
36" WIDE X 1/4" THICK VINYL TREAD, WHERE OCCURS. SEE PLAN.
1/2" WIDE LOOPED ROOFING MEMBRANE – HOT AIR WELDED TO ROOFING MEMBRANE, ALTERNATING SIDES AT 2'–0" O.C.
FULLY ADHERED POLYVINYL–CHLORIDE MEMBRANE ROOFING SYSTEM
SECTION

WALKWAY PAD AND VINYL TREAD | 10

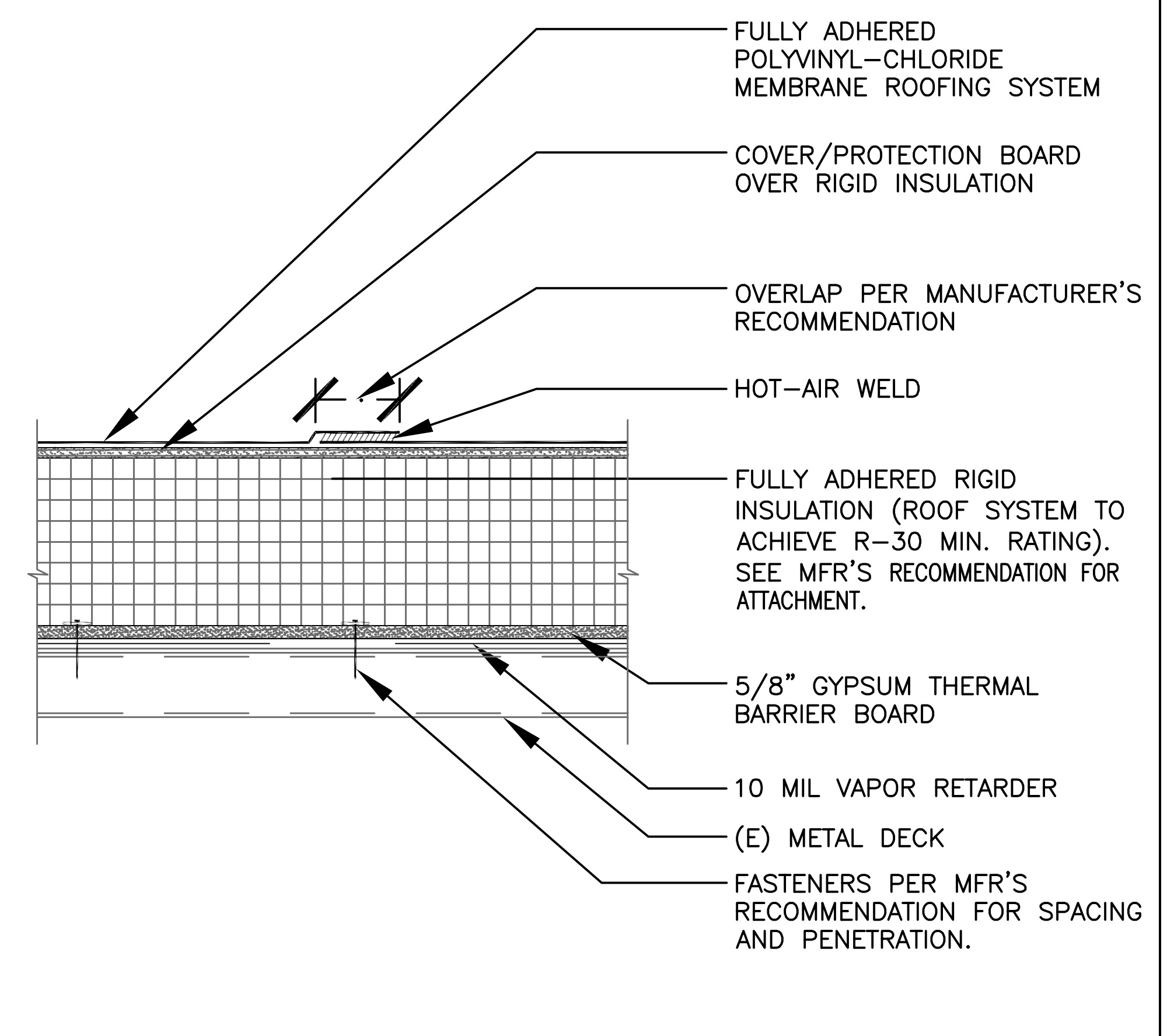

#10 SMS
18 GA Z CLIP @ 12" OC, MAX W/ (2) #10 SMS @ LOW FLUTE
#10 SMS CTR'D IN SLOT
CONT. SLIP TRACK 18 GA MIN., UNO
MTL STUD
1–1/2"
FIRE PROOFING PER UL DESIGN P701, SEE SHEET T–3
PERPENDICULAR TO FLUTES
18 GA Z CLIP x 8" MIN. @ 16" OC W/ #10 SMS @ EA LOW FLUTE
#10 SMS CTR'D IN SLOT
CONT. SLIP TRACK 18 GA MIN., UNO
MTL STUD
1–1/2"
FIRE PROOFING PER UL DESIGN P701, SEE SHEET T–3
PARALLEL TO FLUTES

NOTE: SEE 10/S1.0 FOR METAL STUD CONSTRUCTION.

PARTITION @ METAL DECK | NTS | 7

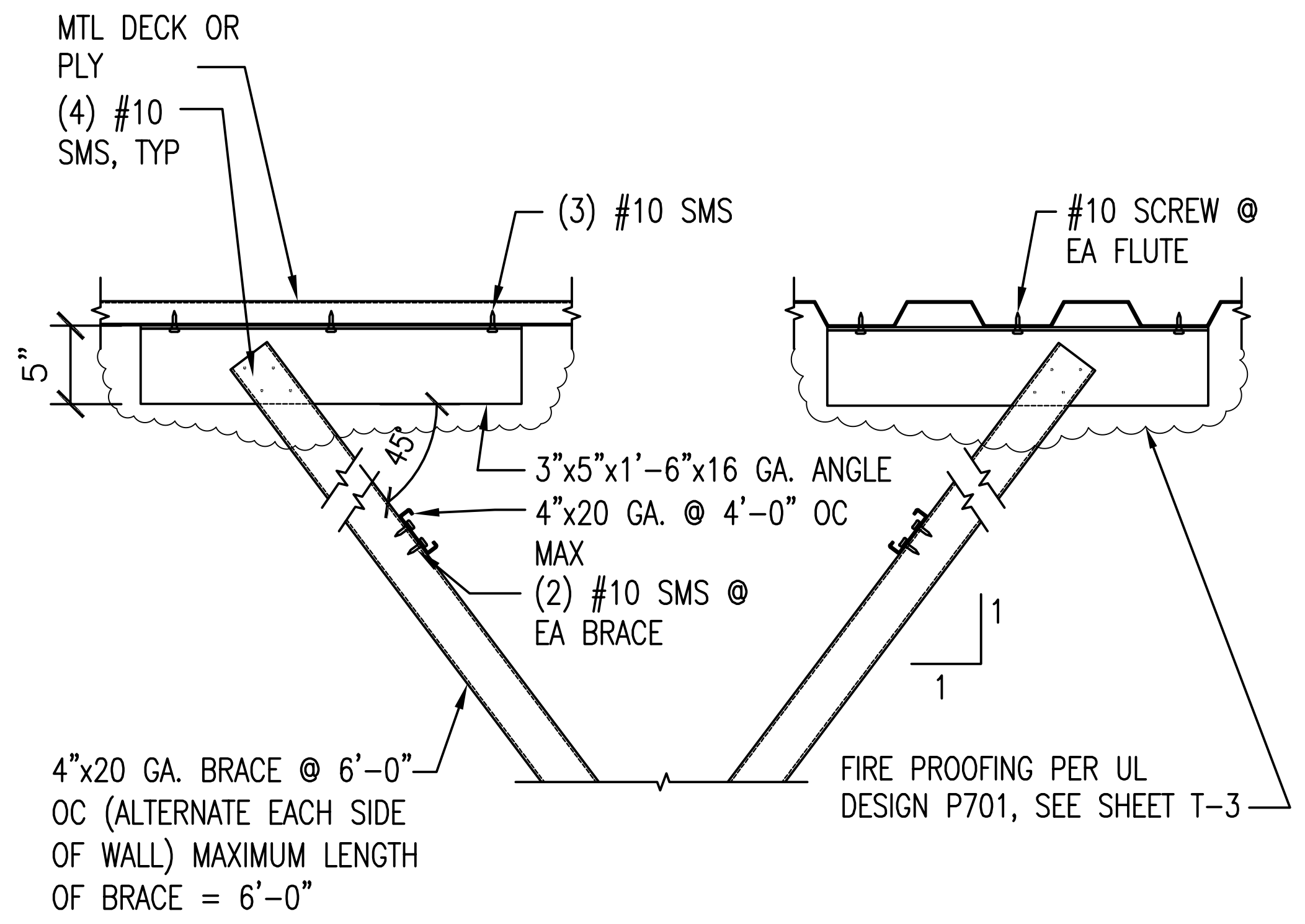
NOT USED | NTS | 4

NOT USED | NTS | 1


FULLY ADHERED POLYVINYL–CHLORIDE MEMBRANE ROOFING SYSTEM
COVER/PROTECTION BOARD OVER RIGID INSULATION
OVERLAP PER MANUFACTURER'S RECOMMENDATION
HOT–AIR WELD
FULLY ADHERED RIGID INSULATION (ROOF SYSTEM TO ACHIEVE R–30 MIN. RATING). SEE MFR'S RECOMMENDATION FOR ATTACHMENT.
5/8" GYPSUM THERMAL BARRIER BOARD
10 MIL VAPOR RETARDER
(E) METAL DECK
FASTENERS PER MFR'S RECOMMENDATION FOR SPACING AND PENETRATION.

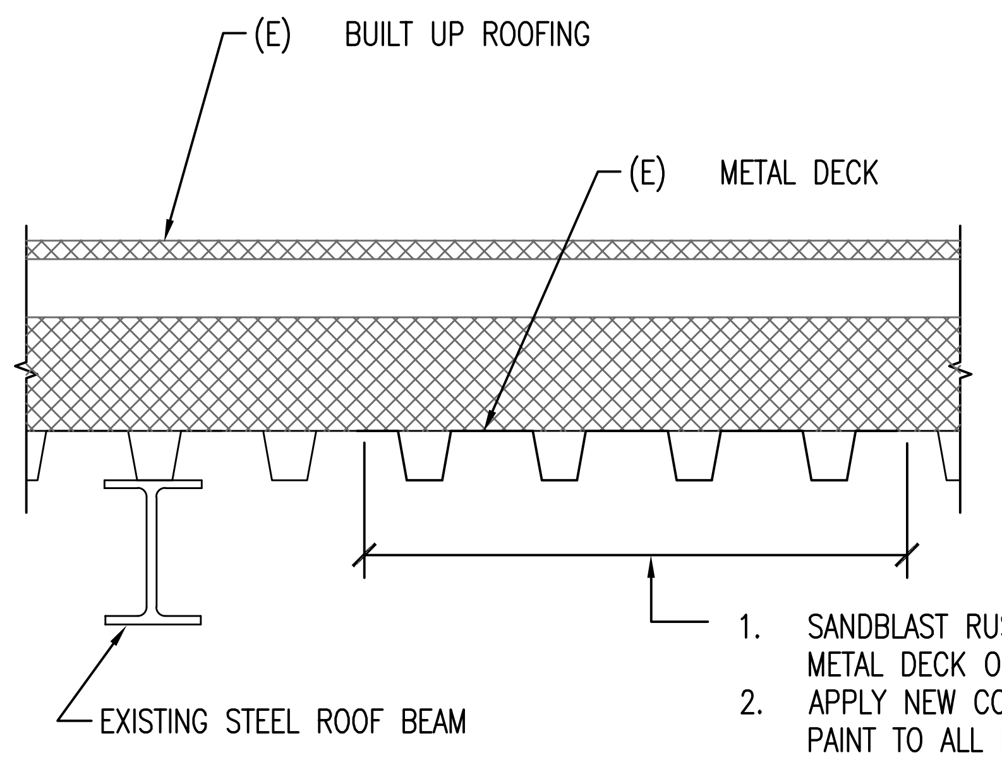
AT METAL DECKS

SINGLE PLY ROOFING SYSTEM | 1–1/2"=1' | 11



NOTE: SEE 11/S1.0 FOR METAL STUD CONSTRUCTION.

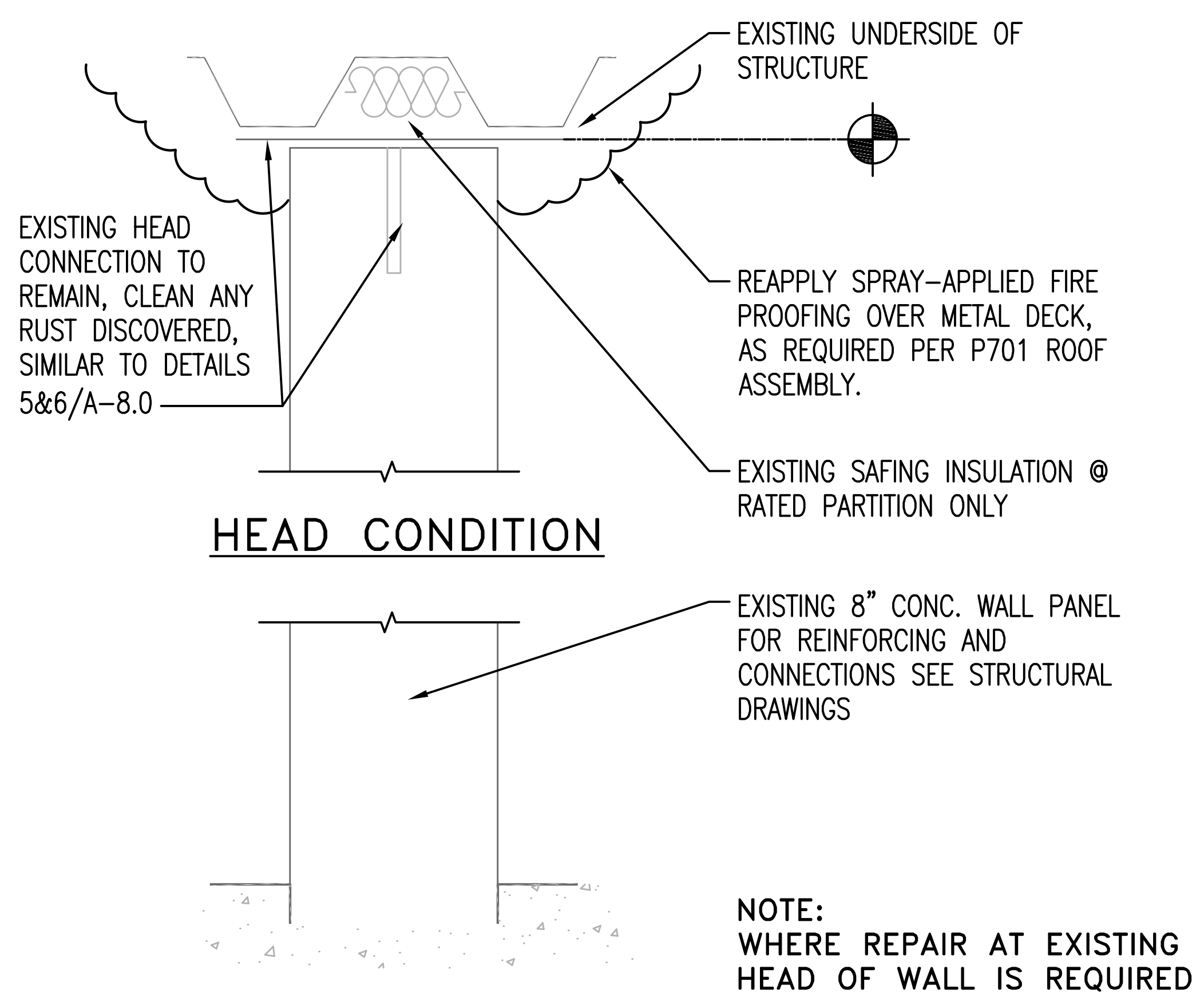
STUD CONNECTIONS | NTS | 8



1. GRIND SURFACE SMOOTH TO CLEAN CORROSION OR (E) PAINT.
   NOTE: IF MORE THAN 25% MATERIAL THICKNESS HAS BEEN RUSTED, NOTIFY DESS BEFORE PROCEEDING.
2. CLEAN ALL SURFACES PRIOR TO APPLICATION OF NEW FIREPROOFING. IF PAINT OR PRIMER IS PRESENT, REMOVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

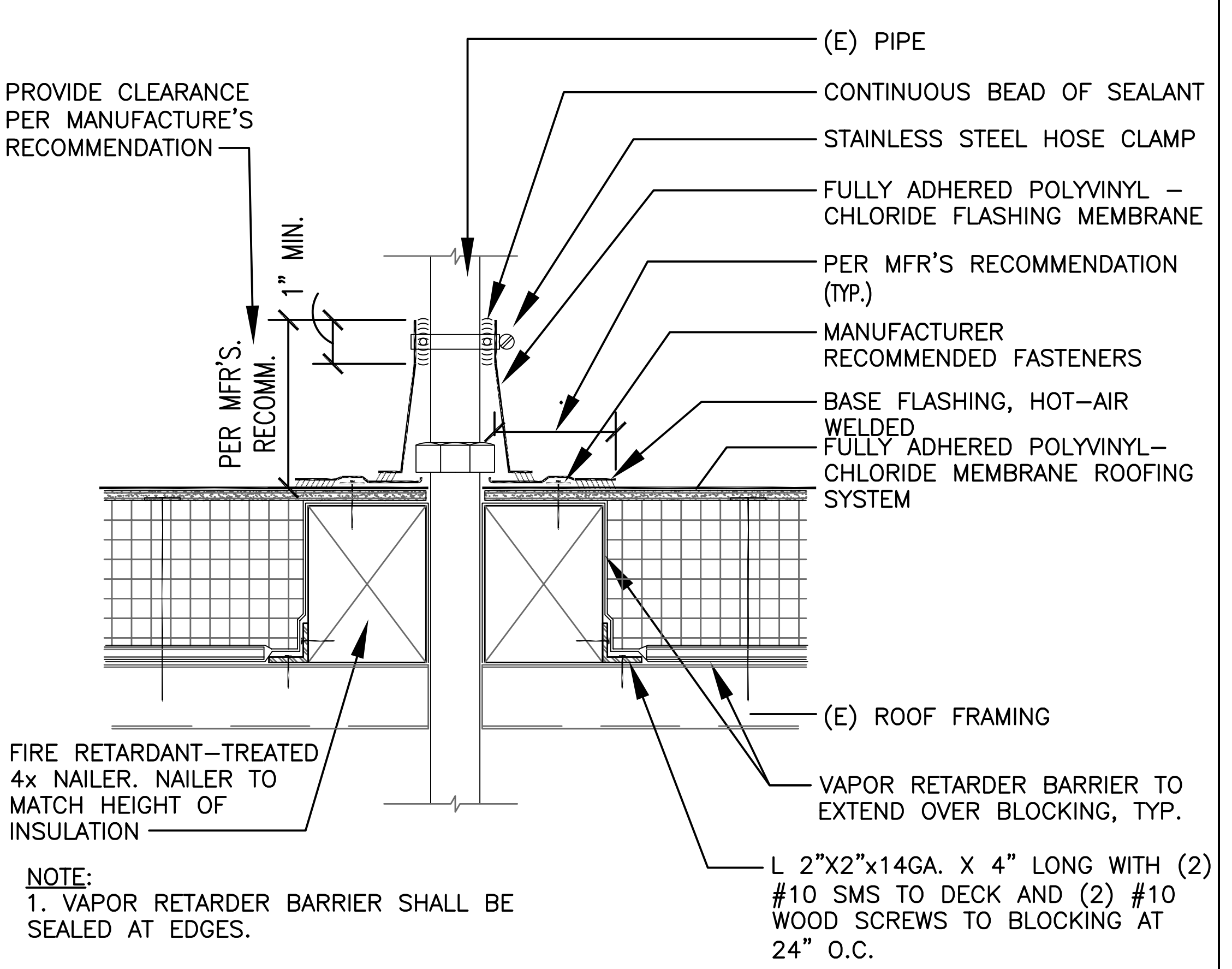
1. SANDBLAST RUST/PAINT FROM METAL DECK ON CEILING SIDE.
2. APPLY NEW COAT OF GALVANIZING PAINT TO ALL EXPOSED SURFACES OF METAL DECK. GALVANIZING PAINT SHALL NOT IMPAIR ADHESION OF NEW FIREPROOFING.
3. RE–APPLY FIREPROOFING TO MATCH EXISTING WHERE OCCURS.

STEEL MEMBERS RUST REMOVAL | NTS | 5


EXISTING UNDERSIDE OF STRUCTURE
EXISTING HEAD CONNECTION TO REMAIN, CLEAN ANY RUST DISCOVERED, SIMILAR TO DETAILS 5&6/A–8.0
REAPPLY SPRAY–APPLIED FIRE PROOFING OVER METAL DECK, AS REQUIRED PER P701 ROOF ASSEMBLY.
EXISTING SAFING INSULATION @ RATED PARTITION ONLY
HEAD CONDITION
EXISTING 8" CONC. WALL PANEL FOR REINFORCING AND CONNECTIONS SEE STRUCTURAL DRAWINGS
FLOOR CONDITION

NOTE:
WHERE REPAIR AT EXISTING HEAD OF WALL IS REQUIRED PROVIDE 2–HOUR JOINTS: PER UL: HW–D–0755 AT P701 ROOF ASSEMBLY

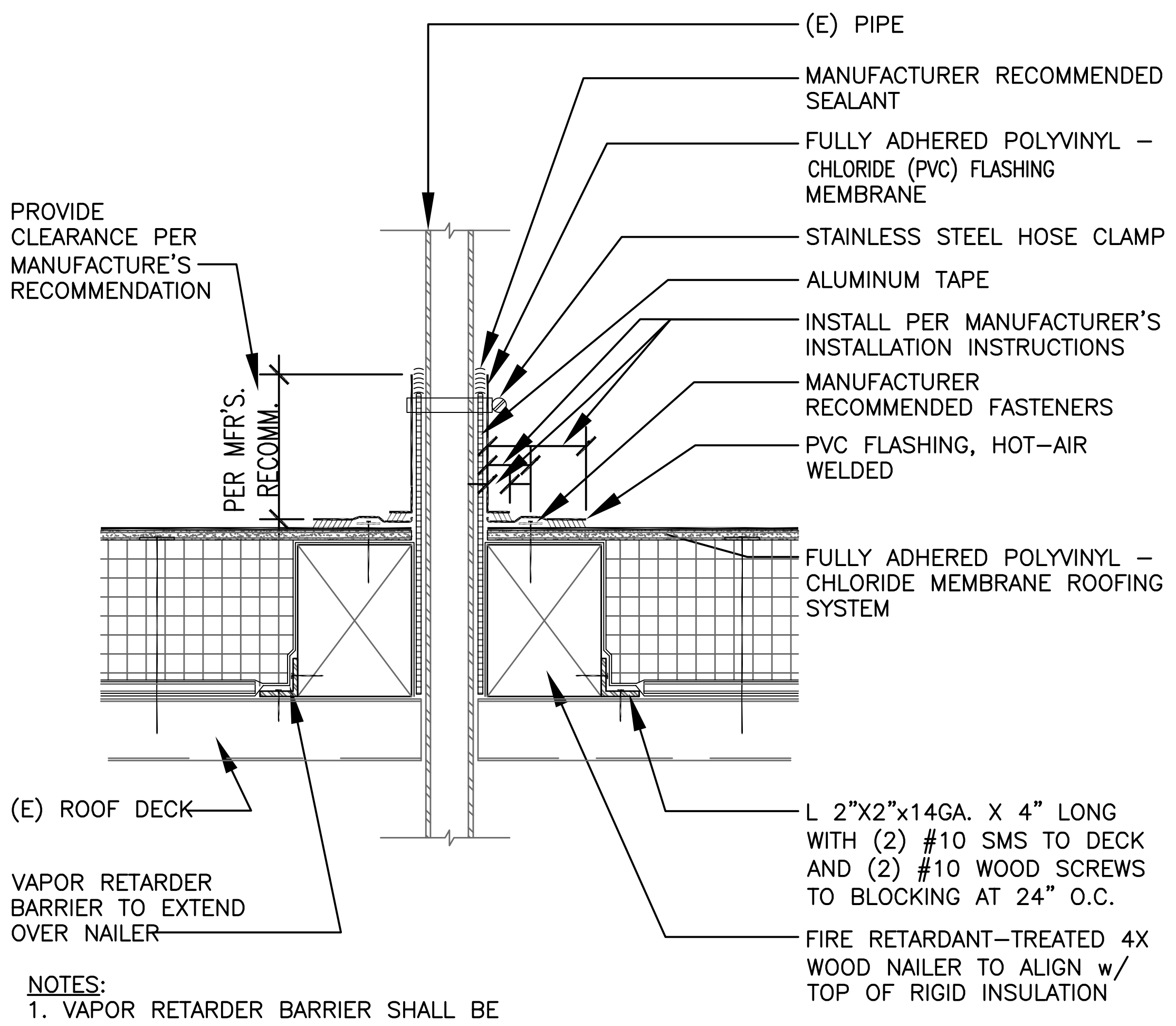
EXISTING CONCRETE WALL TYPE | NTS | 2


(E) PIPE
PROVIDE CLEARANCE PER MANUFACTURE'S RECOMMENDATION
CONTINUOUS BEAD OF SEALANT
STAINLESS STEEL HOSE CLAMP
FULLY ADHERED POLYVINYL – CHLORIDE FLASHING MEMBRANE
1" MIN.
PER MFR'S RECOMMENDATION (TYP.)
PER MFR'S. RECOMM.
MANUFACTURER RECOMMENDED FASTENERS
BASE FLASHING, HOT–AIR WELDED
FULLY ADHERED POLYVINYL– CHLORIDE MEMBRANE ROOFING SYSTEM
(E) ROOF FRAMING
FIRE RETARDANT–TREATED 4x NAILER. NAILER TO MATCH HEIGHT OF INSULATION
VAPOR RETARDER BARRIER TO EXTEND OVER BLOCKING, TYP.
L 2"X2"x14GA. X 4" LONG WITH (2) #10 SMS TO DECK AND (2) #10 WOOD SCREWS TO BLOCKING AT 24" O.C.

NOTE:
1. VAPOR RETARDER BARRIER SHALL BE SEALED AT EDGES.

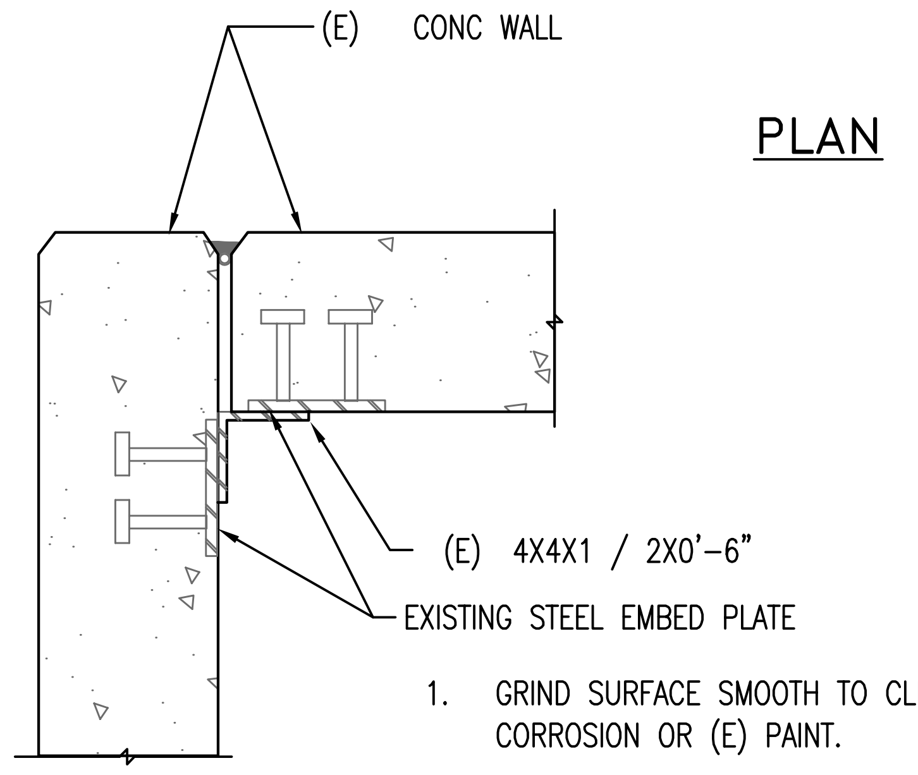
AT METAL DECKS

CONE FLASHING AT PENETRATION | NTS | 12


(E) PIPE
MANUFACTURER RECOMMENDED SEALANT
FULLY ADHERED POLYVINYL – CHLORIDE (PVC) FLASHING MEMBRANE
PROVIDE CLEARANCE PER MANUFACTURE'S RECOMMENDATION
STAINLESS STEEL HOSE CLAMP
ALUMINUM TAPE
INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
PER MFR'S. RECOMM.
MANUFACTURER RECOMMENDED FASTENERS
PVC FLASHING, HOT–AIR WELDED
FULLY ADHERED POLYVINYL – CHLORIDE MEMBRANE ROOFING SYSTEM
(E) ROOF DECK
VAPOR RETARDER BARRIER TO EXTEND OVER NAILER
L 2"X2"x14GA. X 4" LONG WITH (2) #10 SMS TO DECK AND (2) #10 WOOD SCREWS TO BLOCKING AT 24" O.C.
FIRE RETARDANT–TREATED 4X WOOD NAILER TO ALIGN w/ TOP OF RIGID INSULATION

NOTES:
1. VAPOR RETARDER BARRIER SHALL BE SEALED AT EDGES.

PIPE PENETRATION FLASHING | NTS | 9

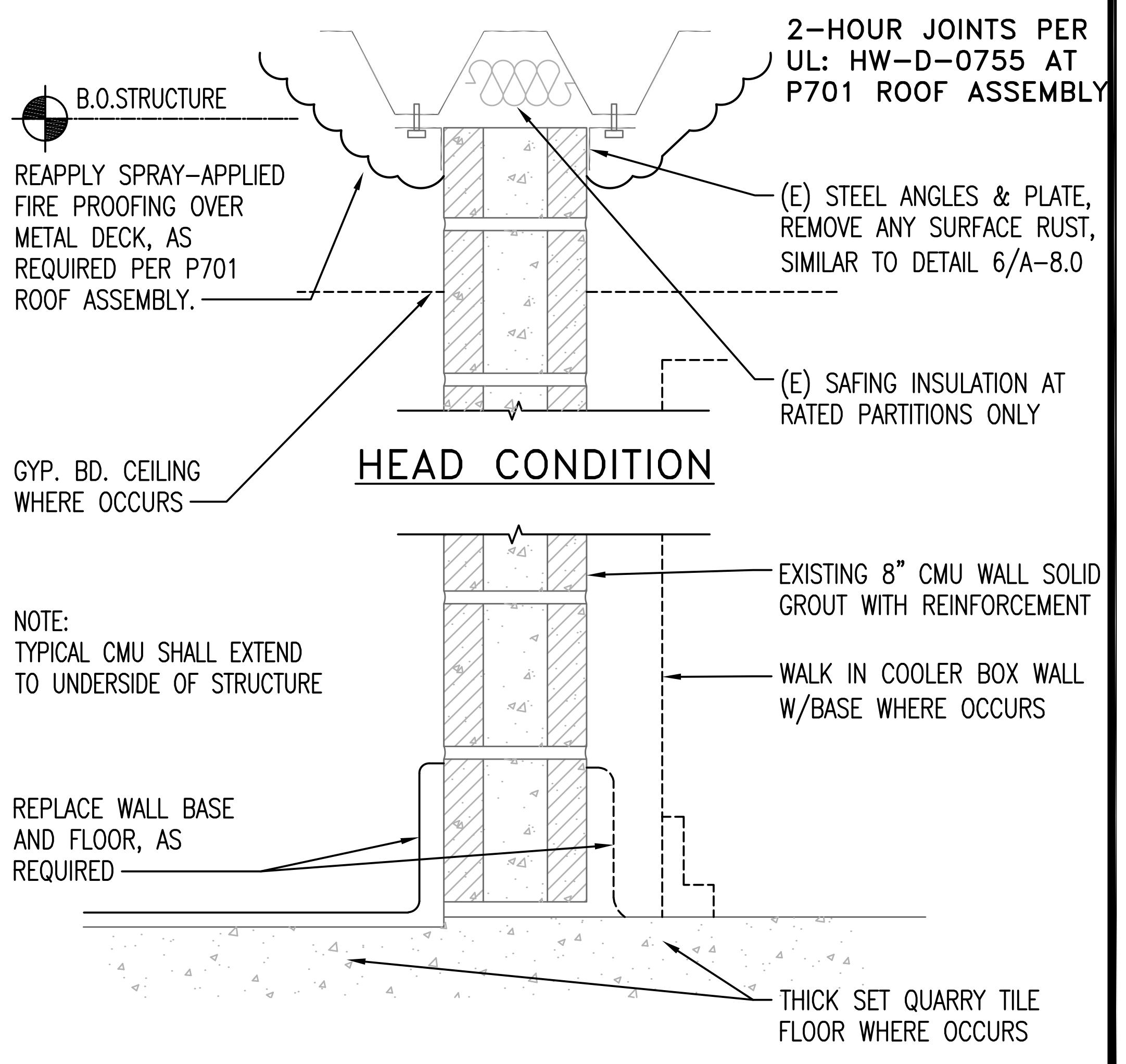


1. GRIND SURFACE SMOOTH TO CLEAN CORROSION OR (E) PAINT.

NOTE: IF MORE THAN 25% MATERIAL THICKNESS HAS BEEN RUSTED, NOTIFY DESS BEFORE PROCEEDING.

2. IRRIGATE AND WIPE CLEAN ALL SURFACES PRIOR TO APPLICATION OF NEW PAINT.
3. APPLY RUST INHIBITIVE PRIMER PRIOR TO APPLICATION OF FINAL PAINT COAT.

STEEL EMBED RUST REMOVAL | NTS | 6


2–HOUR JOINTS PER UL: HW–D–0755 AT P701 ROOF ASSEMBLY
B.O.STRUCTURE
REAPPLY SPRAY–APPLIED FIRE PROOFING OVER METAL DECK, AS REQUIRED PER P701 ROOF ASSEMBLY.
(E) STEEL ANGLES & PLATE, REMOVE ANY SURFACE RUST, SIMILAR TO DETAIL 6/A–8.0
(E) SAFING INSULATION AT RATED PARTITIONS ONLY
GYP. BD. CEILING WHERE OCCURS
HEAD CONDITION
EXISTING 8" CMU WALL SOLID GROUT WITH REINFORCEMENT
NOTE: TYPICAL CMU SHALL EXTEND TO UNDERSIDE OF STRUCTURE
WALK IN COOLER BOX WALL W/BASE WHERE OCCURS
REPLACE WALL BASE AND FLOOR, AS REQUIRED
THICK SET QUARRY TILE FLOOR WHERE OCCURS

EXISTING CMU WALL TYPE | NTS | 3

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

LICENSED ARCHITECT
TYRONE S. COATS
NO. C 30440
REN. 10–31–19
STATE OF CALIFORNIA

TYRONE COATS
SENIOR ARCHITECT

COR
24-014

DETAILS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24–014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\0015_A8.0_DETAILS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
A8.0
OF # SHEETS V3

STRUCTURAL ABBREVIATIONS

v20240823

SEE BUILDING CODE FOR ABBREVIATIONS OF REFERENCE STANDARDS AGENCIES AND NATIONAL ORGANIZATIONS.

(E)	EXISTING
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
ADDNL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT/ARCHITECTURAL
ATR	ALL THREAD ROD
BEV	BEVELED
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING/FASTENING
BOF	BOTTOM OF FOOTING/FRAMING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BTW	BETWEEN
C	CHANNEL/CAMBER
CB	CARRIAGE BOLT
CFS	COLD-FORMED STEEL
CG	CENTER OF GRAVITY
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT/CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE/CONTINUOUS
COORD	COORDINATE/COORDINATION
CRS	COLD ROLLED STEEL
CSK	COUNTER SUNK
CTR	CENTER
CTRD	CENTERED
d	PENNY (NAIL)
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DF	DOUGLAS FIR
DIA (Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DJ	DOWEL JOINT
DL	DEAD LOAD
DO	DITTO/DO OVER
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ELECT	ELECTRICAL
EL	ELEVATION
EMBED	EMBEDMENT
EN	EDGE NAILING/FASTENING
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXTR	EXTERIOR
FA	FRAMING ANCHOR
FHWS	FLAT HEAD WOOD SCREW
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAILING/FASTENING
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOSP	FACE OF STRUCTURAL PANEL
FOW	FACE OF WALL
FRMG	FRAMING
FRT	FIRE-RETARDANT TREATED
FT (')	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLUED LAMINATED BEAM
GR	GRADE
HD	HOLDOWN
HDR	HEADER
HK	HOOK
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IJ	ISOLATION JOINT
IN (")	INCH/INCHES
INFO	INFORMATION
INTR	INTERIOR
IOR	INSPECTOR OF RECORD
JH	JOIST HANGER
JST	JOIST
JT	JOINT
KIPS	KILO (1000) POUNDS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS (#)	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LS	LAG SCREW
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MB	MACHINE BOLT
MCJ	MASONRY CONTROL JOINT
MDJ	MASONRY DOWEL JOINT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MKJ	MASONRY KEY JOINT
MRJ	MASONRY RAKE JOINT
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NSG	NON SHRINK GROUT
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PAF	POWER-ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
PREFAB	PREFABRICATE(D)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESERVATIVE TREATED
QTY	QUANTITY
R	RADIUS
RBM	REINFORCED BRICK MASONRY
REBAR	REINFORCING STEEL BARS
REINF	REINFORCE/REINFORCING
REQ	REQUIRE(D)
RHWS	ROUND HEAD WOOD SCREW
SAD	SEE ARCHITECTURAL DRAWINGS
SCHED	SCHEDULE
SCJ	SHRINKAGE CONTROL JOINT
SDST	SELF-DRILLING SELF-TAPPING
SE	STRUCTURAL ENGINEER
SFRS	SEISMIC FORCE RESISTING SYSTEM
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	STRUCTURAL PANEL
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STAG	STAGGER(ED)
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPORARY
THK	THICK/THICKNESS
THRD	THREAD/THREADED
THRU	THROUGH
TN	TOE NAIL
TOC	TOP OF CONCRETE/CURB
TOF	TOP OF FOOTING/FRAMING
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRAN	TRANSVERSE
TS	TUBE STEEL (SEE HSS)
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
URM	UNREINFORCED MASONRY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WHS	WELDED HEADED STUD
WP	WORK POINT
WT	WEIGHT/STRUCTURAL TEE
WTS	WELDED THREADED STUD
WWF	WELDED WIRE FABRIC

STRUCTURAL SPECIAL INSPECTIONS & TESTS

v20240618

SPECIAL INSPECTION IS THE MONITORING OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND PLACEMENT OF COMPONENTS AND CONNECTIONS THAT REQUIRE SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND STANDARDS REFERENCED IN APPLICABLE CODE.

SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH CBC CHAPTER 17/17A ARE REQUIRED AND SHALL BE PROVIDED FOR THE TYPES OF WORK MARKED IN THE LIST BELOW UNDER SUPERVISION OF AN OUTSIDE SPECIAL INSPECTION TESTING AGENCY. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY.

SPECIAL INSPECTIONS
- [X] EXCAVATION, GRADING & FILL FOR ALL FOUNDATION WORK
- [X] PLACEMENT OF REINFORCEMENT/BOLTS/RODS EMBEDDED IN CONCRETE/MASONRY
- [X] PLACEMENT OF CONCRETE
- [ ] PLACEMENT OF MASONRY UNITS & GROUTING OPERATIONS
- [X] SHOP WELDING EXCEPT WHERE DONE IN THE SHOP OF AN APPROVED FABRICATOR
- [X] FIELD WELDING
- [X] HIGH STRENGTH BOLTING
- [X] POST-INSTALLED ANCHORS (ADHESIVE/EXPANSION/SCREW)
- [X] SPRAY-APPLIED FIRE PROOFING

TESTS
- [ ] COMPACTED FILL
- [X] CONCRETE
- [ ] MASONRY UNITS
- [ ] MORTAR & GROUT
- [X] POST-INSTALLED ANCHORS (ADHESIVE/EXPANSION/SCREW)
- [ ] POWER-ACTUATED FASTENERS (PAFs)

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON, APPROVED BY THE ENFORCEMENT AGENCY AND THE ARCHITECT/STRUCTURAL ENGINEER, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

SCHEDULE AND COORDINATE ALL STRUCTURAL SPECIAL INSPECTIONS AND TESTS. NOTIFY THE SPECIAL INSPECTOR MIN 48 HOURS PRIOR TO PERFORMING ANY WORK REQUIRING THE SPECIAL INSPECTOR'S PRESENCE. COORDINATE WITH THE SPECIAL INSPECTOR SO THAT THE WORK REQUIRING THE INSPECTIONS AND TESTS NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR INSPECTION AND TESTING PURPOSES.

STRUCTURAL OBSERVATION

v20240618

STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS, DETAILS, AND LOAD PATHS BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.

STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION SHALL OCCUR AT THE FOLLOWING CONSTRUCTION STAGES:
- [X] PRIOR TO PLACING CONCRETE IN FOUNDATION TO OBSERVE REINFORCING AND EMBEDS.
- [ ] PRIOR TO PLACING CONCRETE IN WALLS TO OBSERVE REINFORCING AND EMBEDS.
- [ ] PRIOR TO PLACING CONCRETE SLAB ON GRADE TO OBSERVE REINFORCING AND EMBEDS.
- [ ] PRIOR TO GROUTING MASONRY TO OBSERVE COMPLETED BLOCK, REINFORCING, AND EMBEDS.
- [ ] PRIOR TO INSTALLING STEEL DECK AT ROOF/FLOORS TO OBSERVE COMPLETED STEEL FRAME.
- [X] PRIOR TO INSTALLING INSULATION/ROOFING TO OBSERVE COMPLETED STEEL DECK.
- [ ] PRIOR TO COVERING PLYWOOD SHEATHING AT WALLS.
- [ ] PRIOR TO COVERING PLYWOOD SHEATHING AT ROOF/FLOORS.
- [X] STRUCTURAL SYSTEM COMPLETION

NOTIFY THE STRUCTURAL OBSERVER MIN 48 HOURS PRIOR TO THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES SO THAT OBSERVATIONS MAY BE SCHEDULED.

EQUIPMENT ANCHORAGE

v20240618

1. ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED, AS PART OF THIS PROJECT, SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2022 CBC SECTION 1617A.1.18.
2. EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY APPROPRIATE DESIGN PROFESSIONAL OF RECORD AND CDCR REPRESENTATIVE AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
3. NONSTRUCTURAL COMPONENTS AND THEIR SUPPORTS SHALL BE ATTACHED OR ANCHORED TO THE STRUCTURE IN ACCORDANCE WITH THE REQUIREMENTS OF ASCE 7-16 CHAPTER 13 AS MODIFIED BY CBC SECTION 1617A.1. ADDITIONAL BUILDING SUPPORT FRAMING SHALL BE INCLUDED WHERE REQUIRED.
4. SHOP DRAWINGS AND ENGINEERING CALCULATIONS FOR ANCHORAGE, SUPPORT, AND SEISMIC BRACING OF MECHANICAL AND ELECTRICAL COMPONENTS AND DISTRIBUTION SYSTEMS NOTED ON MEP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTALS SHALL BE SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

STRUCTURAL GENERAL NOTES

v20240618

1. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
2. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., PRIOR TO COMMENCING ANY WORK. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT/STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
5. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. DO NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
7. SEE DRAWINGS BY OTHER DISCIPLINES (ARCHITECTURAL, CIVIL, PLUMBING, MECHANICAL, ELECTRICAL, ETC.) FOR THE FOLLOWING:
   - SIZE & LOCATION OF DOOR AND WINDOW OPENINGS.
   - SIZE & LOCATION OF INTERIOR NON-STRUCTURAL PARTITIONS.
   - SIZE & LOCATION OF CONCRETE CURBS, PADS, PITS, TRENCHES, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, STEPS, CHAMFERS, GROOVES, INSERTS, ETC. EXCEPT AS SHOWN.
   - SIZE & LOCATION OF WALL, FLOOR, AND ROOF OPENINGS EXCEPT AS SHOWN.
   - SIZE & LOCATIONS OF PIPES, SLEEVES, VENTS, DUCTS, CONDUITS, OUTLETS, ETC.
8. EXISTING BUILDING NOTES
   A. EXISTING BUILDING INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON OUR INTERPRETATION OF THE EXISTING CONDITIONS, WHICH IS BASED UPON REVIEW OF RECORD DRAWINGS AND LIMITED VISUAL OBSERVATION.
   B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER IF ANY DISCREPANCIES WITH THESE DRAWING ARE FOUND BEFORE PROCEEDING WITH WORK.
   C. WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE INSTITUTION.
9. SAFETY NOTES
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF REQUIRED FORMS, SHORING AND BRACING DURING CONSTRUCTION. DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO, VERTICAL LOADS, LATERAL LOADS, CONSTRUCTION EQUIPMENT LOADS, ETC.
   C. SHORING IS ONLY INDICATED ON THE STRUCTURAL DRAWINGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
10. SHOP DRAWING NOTES
    A. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER.
    B. SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, REINFORCING STEEL, STRUCTURAL STEEL, AND GLUED LAMINATED TIMBER. WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT.
    C. THE PURPOSE OF SHOP DRAWING SUBMITTALS IS FOR THE CONTRACTOR TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THE UNDERSTANDING OF THE DESIGN INTENT AND COMPLIANCE WITH THE CONTRACT DOCUMENTS BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE.
    D. REPRODUCTIONS OF APPROVED DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IN NOT PERMITTED.
    E. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS ON THE SHOP DRAWINGS, WHICH MUST BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES.
    F. THE CONTRACTOR IS RESPONSIBLE FOR MATERIAL QUANTITIES ON THE SHOP DRAWINGS.
    G. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
    H. ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
    I. THE CONTRACTOR SHALL REVIEW AND BE IN AGREEMENT WITH COMMENTS MADE BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

FOUNDATIONS

v20240618

1. GEOTECHNICAL ENGINEER OR SPECIAL INSPECTOR SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL FOUNDATION EXCAVATIONS WHEN COMPLETE AND READY FOR FORMS OR REINFORCING. NO FORMS OR REINFORCING SHALL BE PLACED IN ANY FOUNDATION UNTIL INSPECTED AND APPROVED.
2. FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED, NATIVE SOIL, OR WHERE REQUIRED, COMPACTED ENGINEERED FILL PER THE CONTRACT DOCUMENTS.
3. FOUNDATION DEPTHS INDICATED ON DRAWINGS ARE MINIMUM DEPTHS ONLY AND DO NOT ACCOUNT FOR PIPES, CONDUITS, UTILITIES, TRENCHES, ETC ADJACENT TO OR CROSSING FOOTINGS AS SHOWN OR INDICATED ON OTHER CONTRACT DOCUMENTS. STEP FOOTINGS TO COMPLY WITH THE REQUIREMENTS OF TYP DETAIL FOR PIPES/CONDUITS AT CONTINUOUS FOOTINGS.
4. FOUNDATIONS SHALL BE LEVEL OR SHALL BE STEPPED SO THAT BOTH THE TOP AND BOTTOM ARE LEVEL. SLOPING FOUNDATIONS ARE NOT PERMITTED. STEP FOOTINGS AS REQUIRED PER TYP DETAILS.
5. FOOTINGS SHALL BE CENTERED UNDER WALLS/COLUMNS (TYP UNO).
6. FOUNDATIONS ARE SHOWN AND DIMENSIONED AS BEING FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED FOOTINGS ARE INCREASED IN WIDTH BY 2 INCHES.
7. THE CONTRACTOR SHALL VERIFY FOOTING FORMS ARE SQUARE AND PLUMB, AND THAT ALL INSERTS AND EMBEDS ARE IN THEIR CORRECT LOCATION AND ORIENTATION PRIOR TO PLACING CONCRETE.
8. FOUNDATION EXCAVATIONS SHALL BE CLEANED OF DEBRIS, LOOSE SOIL, AND STANDING WATER DURING CONSTRUCTION AND PRIOR TO PLACING CONCRETE.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING, BUT NOT LIMITED TO, LAGGING, SHORING, BRACING, AND THE PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES. ALL WORK SHALL COMPLY WITH CAL/OSHA REGULATIONS.
10. FOR DAMP-PROOFING, WATER-PROOFING, AND DRAINAGE SYSTEMS ADJACENT TO FOUNDATIONS, SEE OTHER CONTRACT DOCUMENTS.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER MIN 48 HOURS PRIOR TO PLACING CONCRETE SO THAT THE STRUCTURAL ENGINEER MAY HAVE THE OPPORTUNITY OF REVIEWING THE WORK.

POST-INSTALLED ANCHORS IN CONCRETE & MASONRY

v20240820

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
2. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
3. WHEN INSTALLING POST-INSTALLED ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING. LOCATE REINFORCING BARS IN THE VICINITY OF ANCHORS BEFORE DRILLING AND ADJUST POSITION OF ANCHORS TO CLEAR BARS. IF A BAR IS ENCOUNTERED DURING DRILLING, ABANDON THE HOLE AND RELOCATE THE ANCHOR POSITION TO CLEAR THE BAR. FILL ABANDONED HOLES WITH 4,000 PSI NON-SHRINK GROUT.
4. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND EVALUATION REPORTS COMPLIANT WITH APPLICABLE CODE AS FOLLOWS:
   A. CONCRETE (CRACKED OR UNCRACKED):
      - HILTI KWIK BOLT KB-TZ2 EXPANSION ANCHOR .... ICC ESR-4266
      - HILTI KH-EZ SCREW ANCHOR .... ICC ESR-3027
      - HILTI HIT-RE 500 V3 ADHESIVE ANCHOR .... ICC ESR-3814
      - HILTI HIT-HY 200 V3 ADHESIVE ANCHOR .... ICC ESR-4868
   B. CONCRETE MASONRY (FULLY-GROUTED):
      - HILTI KWIK BOLT KB-TZ2 EXPANSION ANCHOR .... ICC ESR-4561
      - HILTI KH-EZ SCREW ANCHOR .... ICC ESR-3056
      - HILTI HIT-HY 200 V3 ADHESIVE ANCHOR .... ICC ESR-4878
   C. CONCRETE MASONRY (HOLLOW):
      - HILTI HIT-HY 270 ADHESIVE ANCHOR .... ICC ESR-4143
   D. BRICK MASONRY (MULTI-WYTHE):
      - HILTI HIT-HY 270 ADHESIVE ANCHOR .... ICC ESR-4144

   NOTE: CARBON STEEL ANCHORS ARE LIMITED TO DRY, INTERIOR LOCATIONS.
   STAINLESS STEEL ANCHORS MUST BE USED FOR EXTERIOR EXPOSURE OR DAMP ENVIRONMENTS.
5. MINIMUM AGE OF CONCRETE, MORTAR, OR GROUT AT THE TIME OF INSTALLATION OF POST-INSTALLED ANCHORS SHALL BE AS FOLLOWS:
   7-DAYS FOR MECHANICAL ANCHORS
   21-DAYS FOR ADHESIVE ANCHORS
6. INSTALLER CERTIFICATION IS REQUIRED FOR HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS IN ACCORDANCE WITH ACI 318 CHAPTER 17A.
7. SPECIAL INSPECTION IS REQUIRED BY THE ANCHOR'S EVALUATION REPORT. SPECIAL INSPECTIONS SHALL BE CONTINUOUS OR PERIODIC AS PER CBC SECTION 1705A AND TABLE 1705A.3.
   A. INITIAL INSPECTION IS REQUIRED FOR EACH DIFFERENT SUBCONTRACTOR. THE INSPECTOR WILL VERIFY LOCATION AND CONFIGURATION OF THE ANCHORS BASED ON THE PROJECT PLANS INCLUDING ANY EDGE DISTANCE AND SPACING REQUIREMENTS, DRILL BIT TYPE AND SIZE USED, HOLE DEPTH, HOLE CLEANING TECHNIQUE, ANCHOR TYPE, SIZE, EMBEDMENT AND INSTALLATION PROCEDURE INCLUDING ADHESIVE EXPIRATION DATE AND PROPER DISPENSING.
   B. SUBSEQUENT INSPECTION OF INSTALLATION WILL BE REQUIRED ONLY WHEN THERE IS A CHANGE OF PERSONNEL DOING THE INSTALLATION. THE GENERAL CONTRACTOR SHALL CALL FOR SUCH INSPECTION IN THE EVENT OF A CHANGE, DEFINED AS ANY ONE OR MORE PERSONS DRILLING, PREPARING HOLES OR INSTALLING ANCHORS.
8. TESTING IS REQUIRED IN ACCORDANCE WITH CBC SECTION 1910A. SEE DETAILS AND/OR POST-INSTALLED ANCHOR SCHEDULES FOR TENSION TEST LOADS OR TORQUE TEST VALUES.

TEST FREQUENCY BY APPLICATION	
STRUCTURAL CONNECTIONS EXCEPT SILL PLATE BOLTING:	100% OF ANCHORS
SILL PLATE BOLTING:	10% OF ANCHORS
NON-STRUCTURAL COMPONENTS, SUCH AS EQUIPMENT ANCHORAGE: (TEST ALTERNATE ANCHORS IN A GROUP, INCLUDING AT LEAST 50% OF ANCHORS IN EACH GROUP)	50% OF ANCHORS
ANCHORS WHERE DESIGN TENSION IS LESS THAN 100 POUNDS: (THE ANCHORS MUST BE SPECIFICALLY NOTED ON THE CONSTRUCTION DOCUMENTS)	10% OF ANCHORS
REBAR ACROSS COLD JOINTS IN CONCRETE SLAB ON GRADE:	NO TESTING IS REQUIRED

   IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.
9. TEST METHOD SHALL BE AS NOTED FOR SPECIFIC ANCHOR TYPES AND THE FOLLOWING SHALL APPLY FOR ACCEPTANCE OF INSTALLED ANCHORS:

   ACCEPTANCE CRITERIA BY TEST METHOD

   HYDRAULIC RAM METHOD (TENSION TESTING): THE ANCHOR MUST MAINTAIN THE SPECIFIED TENSION TEST LOAD FOR MINIMUM 15 SECONDS AND NOT EXHIBIT OBSERVABLE MOVEMENT AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.

   TORQUE WRENCH METHOD (TORQUE TESTING): THE ANCHOR MUST ATTAIN THE SPECIFIED TORQUE TEST VALUE WITHIN ONE-HALF ($\frac{1}{2}$) TURN OF THE NUT; EXCEPT ONE-QUARTER ($\frac{1}{4}$) TURN OF THE NUT FOR $\frac{3}{8}$" SLEEVE ANCHORS AND SCREW-TYPE ANCHORS OF ALL SIZES.
10. TESTING OF ANCHORS SHALL BE DONE BY A QUILIFIED TESTING LABORATORY IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE CDCR REPRESENTATIVE AND THE ARCHITECT/STRUCTURAL ENGINEER. TESTING SHALL OCCUR AT MINIMUM OF 24-HOURS AFTER THE INSTALLATION OF THE ANCHORS.
11. APPLY TENSION TEST LOAD TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT POSSIBLE, REPLACE THE NUT WITH A THREADED COUPLER OF THE SAME DIAMETER AND TORQUE TO THE SAME LEVEL AS THE ORIGINAL NUT AND APPLY TENSION TEST LOAD.

STRUCTURAL DESIGN CRITERIA

v20240618

APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

PROJECT LOCATION: CALIFORNIA STATE PRISON, CORCORAN (COR), 4001 KING AVE, CORCORAN, CA

OCCUPANCY: PER CALIFORNIA DEPARTMENT OF CORRECTIONS & REHABILITATION (CDCR) DESIGN CRITERIA GUIDELINES (DCG), APPENDIX D, CDCR BUILDINGS AND FACILITIES WITHIN THE SECURE PERIMETER MUST BE DESIGNED AS ESSENTIAL SERVICES BUILDINGS, COMPLY WITH CBC "A" CHAPTERS, AND BE ASSIGNED RISK CATEGORY IV.
(SEE DCG APPENDIX D FOR ADDTIONAL INCLUDED BLDGS AND EXCLUDED BLDGS.)

VERTICAL DESIGN CRITERIA

A. LIVE LOADS:
   - ROOF: ORDINARY NON-OCCUPIABLE .... 20 PSF (REDUCIBLE)

B. SPECIAL LOADS: NONE

C. SNOW LOADS: NONE

LATERAL DESIGN CRITERIA (ULTIMATE LEVEL FORCES)

A. WIND DESIGN CRITERIA:
   - BASIC WIND SPEED (3 SEC GUST), V = 105 MPH
   - EXPOSURE CATEGORY: C
   - TOPOGRAPHIC FACTOR, Kzt = 1.0
   - GUST-EFFECT FACTOR, G = 0.85
   - WIND PRESSURES ON COMPONENTS & CLADDING PER ASCE 7-16 CHAPTER 30

B. SEISMIC DESIGN CRITERIA:
   - SITE CLASS: D
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.78, S1 = 0.28
   - DESIGN SPECTRAL RESONSE ACCELERATIONS: Sds = 0.62, Sd1 = N/A
   - SEISMIC DESIGN CATEGORY: D
   - NONSTRUCTURAL COMPONENTS PER ASCE 7-16 CHAPTER 13

FLOOD DESIGN CRITERIA

SITE NOT LOCATED IN FLOOD HAZARD AREA.

GEOTECHNICAL DESIGN CRITERIA

DESIGN VALUES ARE BASED ON CBC CHAPTER 18/18A, TABLE 1806.2/1806A.2 FOR UNDISTURBED, NON-ORGANIC NATIVE SOIL, MATERIAL CLASS 5.

A. SHALLOW FOUNDATIONS:
   - ALLOWABLE BEARING PRESSURE
     DL + LL = 1,500 PSF
     DL + LL + WIND OR SEISMIC = 2,000 PSF
   - ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF/FT OF DEPTH
   - ALLOWABLE LATERAL SLIDING RESISTANCE:
     COHESION = 130 PSF x CONTACT AREA
     SLIDING RESISTANCE NOT TO EXCEED = 0.50 x DEAD LOAD

B. PER RECORD DRAWINGS DATED DECEMBER 1, 1986.
   - SOIL HAS HIGH POTENTIAL FOR CORROSION OF STEEL AND CONCRETE AS PER GEOTECHNICAL REPORT. USE ASTM C150 PORTLAND CEMENT TYPE V IN ALL CONCRETE WHICH WILL BE IN CONTACT WITH SOIL. (FOUNDATION, SLAB ON GRADE, UNDERGROUND PIT OR UTILITIES, ETC.)

STRUCTURAL SHEET INDEX

S0.1 STRUCTURAL GENERAL NOTES

S1.1 TYPICAL NOTES & DETAILS – CONCRETE
S1.2 TYPICAL NOTES & DETAILS – STRUCTURAL STEEL
S1.3 TYPICAL NOTES & DETAILS – STEEL DECK

S2.2 LOW ROOF & MEZZANINE FRAMING PLAN
S2.3 HIGH ROOF FRAMING PLAN
S2.4 YARD CANOPY PLANS & DETAILS

CDCR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

VERA LYNCH
S5259
Exp 6/30/26

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CR
CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

COR
24-014

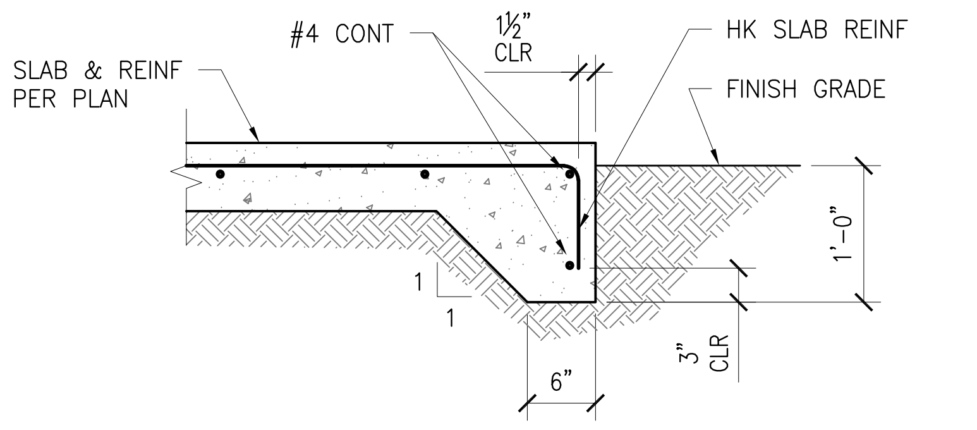
STRUCTURAL GENERAL NOTES
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\S0.1 TO S1.3 TYPICAL NOTES AND DETAILS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

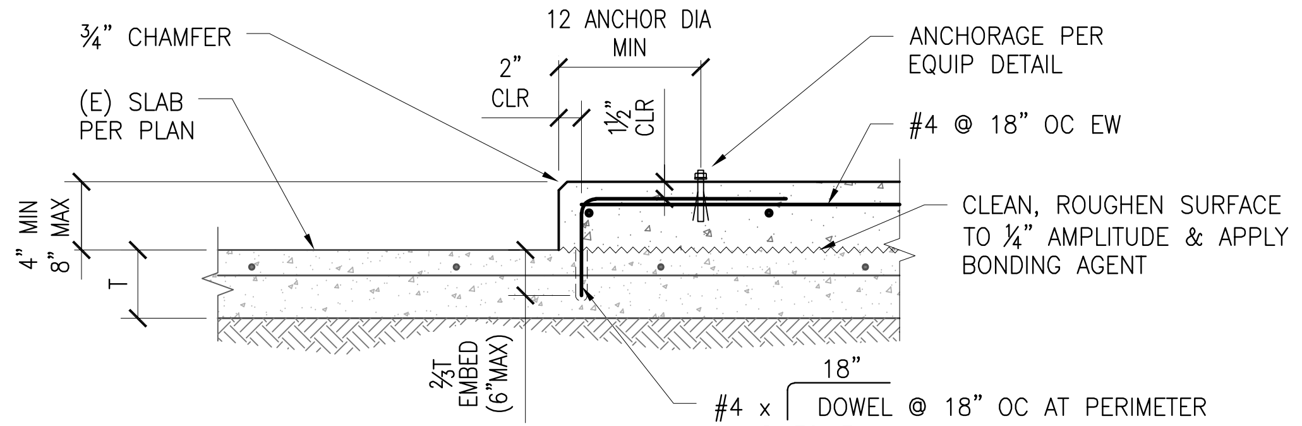
DATE: SEPTEMBER 20, 2024

SHEET NUMBER
S0.1
OF # SHEETS V3

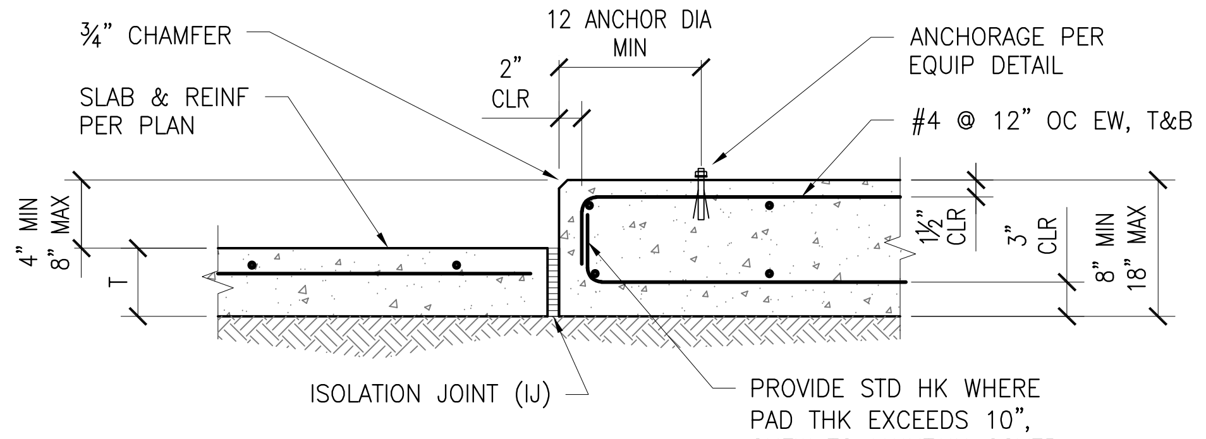


9 TYP SLAB-ON-GRADE THICKENED EDGE

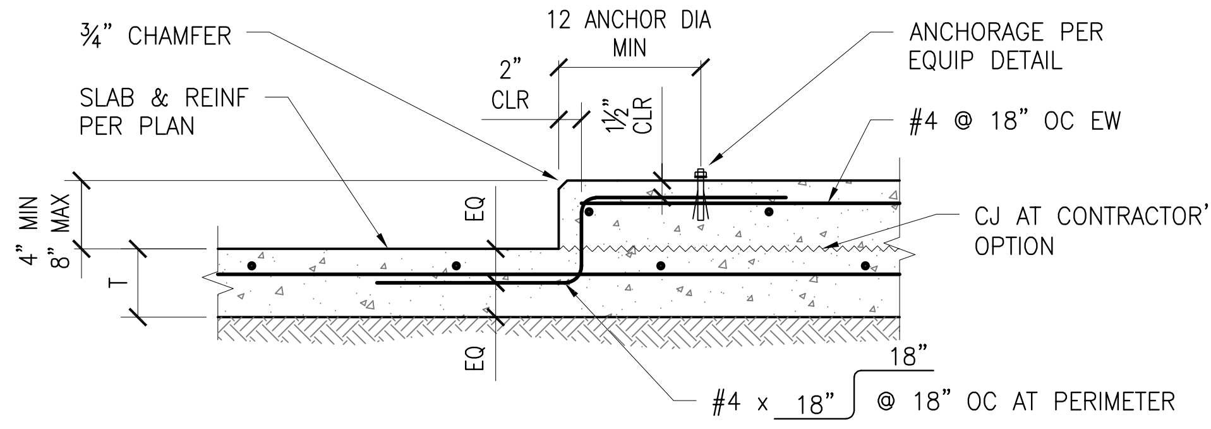
SCALE: NTS


¾" CHAMFER
12 ANCHOR DIA MIN
2" CLR
1½" CLR
ANCHORAGE PER EQUIP DETAIL
(E) SLAB PER PLAN
#4 @ 18" OC EW
CLEAN, ROUGHEN SURFACE TO ¼" AMPLITUDE & APPLY BONDING AGENT
4" MIN 8" MAX
T
⅔T EMBED (6"MAX)
18"
#4 x DOWEL @ 18" OC AT PERIMETER IN ADHESIVE

C PAD ON EXISTING SLAB



B ISOLATED PAD



A TYPICAL PAD (UNO)

NOTES:

1. SEE ARCH/MECH & OTHER CONSULTANT DWGS FOR SIZE & LOCATION OF EQUIP HOUSEKEEPING PADS.
2. HOUSEKEEPING PADS SHALL BE TYPE 'A' WITH A PAD HEIGHT OF 6", TYP UNO. PADS MAY BE CONSTRUCTED ACCORDING TO TYPE 'C' AT CONTRACTOR'S OPTION.

11 TYP HOUSEKEEPING PADS

SCALE: NTS

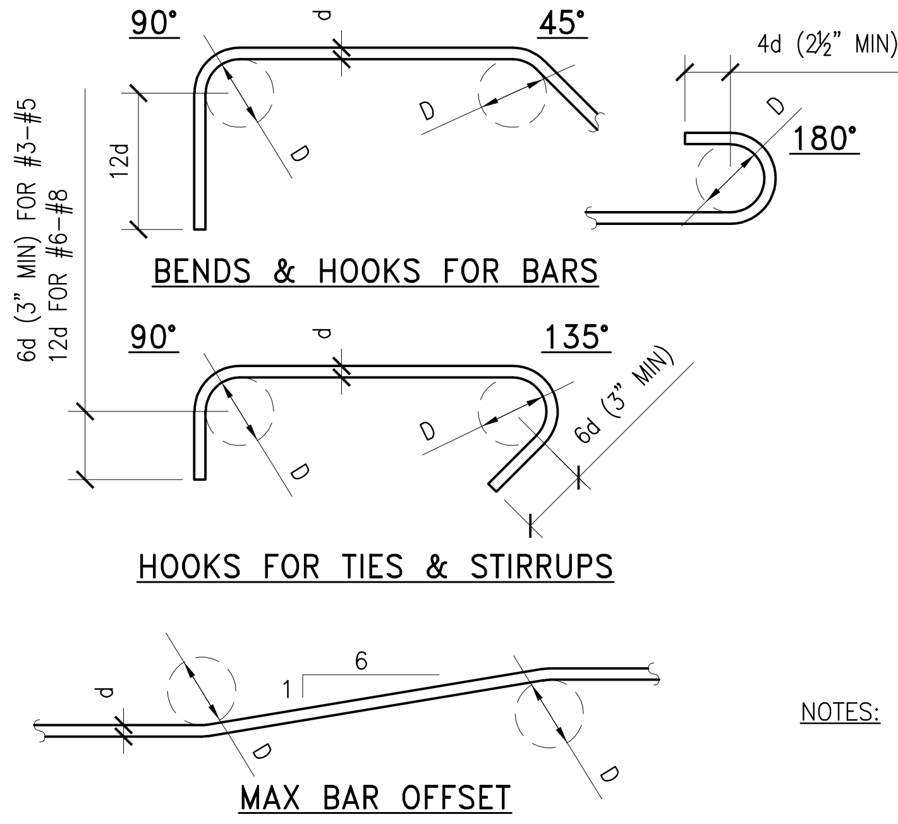
REINFORCEMENT CLASS B LAP SPLICE LENGTHS (IN INCHES)

CONCRETE STRENGTH, f'c	REINF LOCATION	BAR SIZE (GRADE 60)								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
3000 PSI	TOP	24	38	47	56	82	94	106	116	128
	OTHER	24	29	37	43	63	72	81	90	99
4000 PSI	TOP	24	33	41	49	71	81	91	103	114
	OTHER	24	25	32	38	55	63	71	80	88

NOTE: TOP REINF IS HORIZONTAL REINF THAT HAS MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW IT.

5 TYP REINF SPLICES IN CONC

SCALE: NTS



BENDS & HOOKS FOR BARS

HOOKS FOR TIES & STIRRUPS

MAX BAR OFFSET

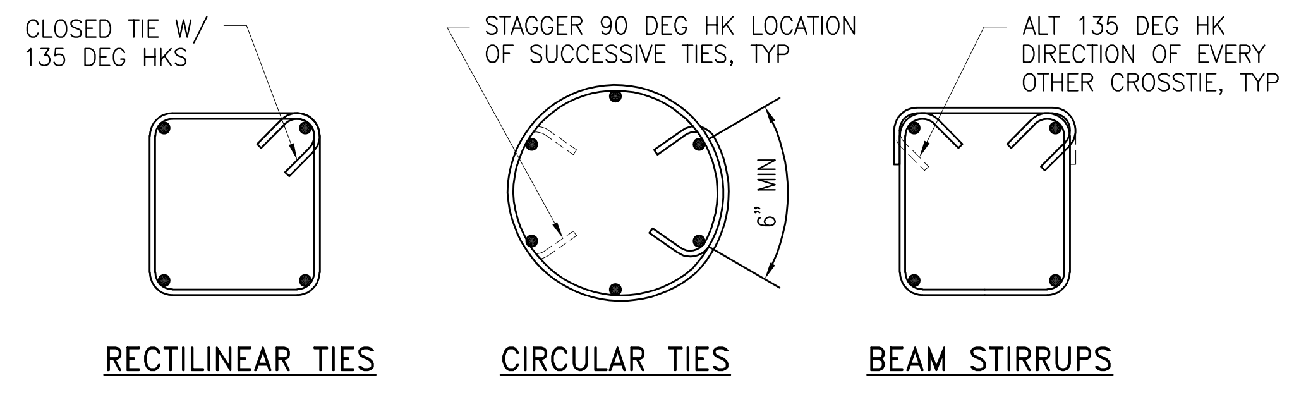
BEND DIAMETERS FOR BARS	
BAR SIZE	D
#3–#8	6d
#9–#11	8d

BEND DIAMETERS FOR TIES & STIRRUPS	
BAR SIZE	D
#3–#5	4d
#6–#8	6d

NOTES:
D = MIN INSIDE BEND DIA
d = NOMINAL REBAR DIA
ALL BENDS SHALL BE MADE COLD.

6 TYP REINF BENDS/HOOKS/OFFSETS

SCALE: NTS


CLOSED TIE W/ 135 DEG HKS
STAGGER 90 DEG HK LOCATION OF SUCCESSIVE TIES, TYP
ALT 135 DEG HK DIRECTION OF EVERY OTHER CROSSTIE, TYP
6" MIN

RECTILINEAR TIES

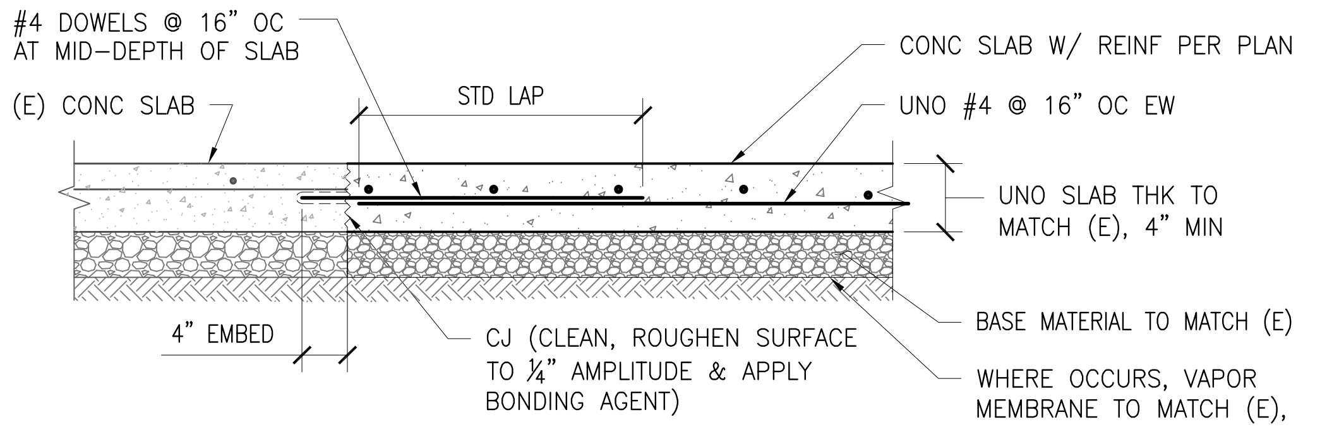
CIRCULAR TIES

BEAM STIRRUPS

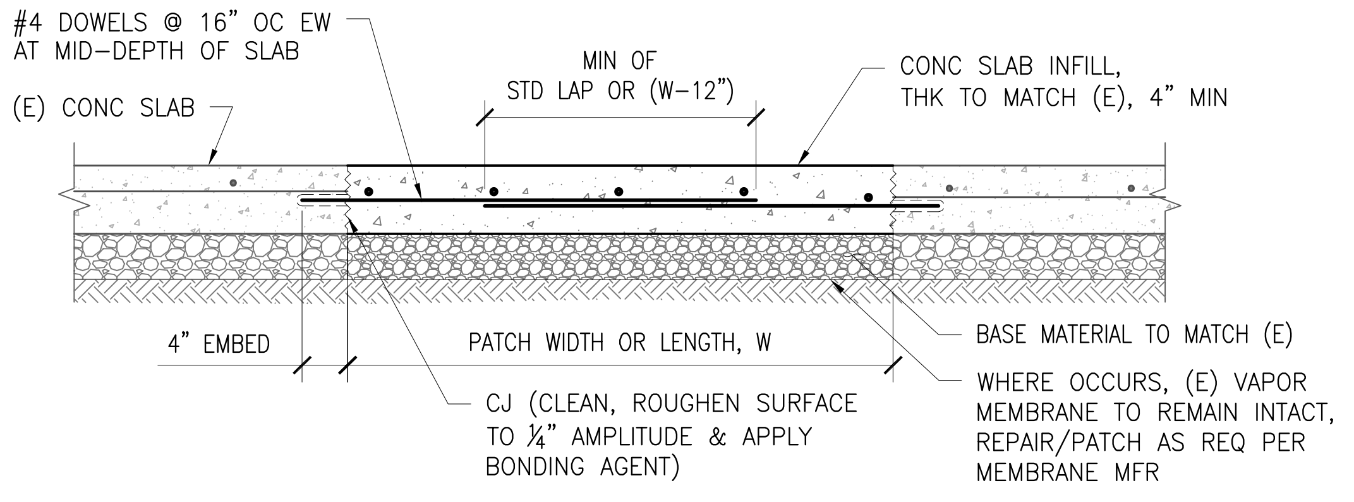
NOTE:
FOR BEND & HOOK INFO NOT SHOWN, SEE TYP REINF BENDS DETAIL.

7 TYP REINF TIES/STIRRUPS

SCALE: NTS


#4 DOWELS @ 16" OC AT MID-DEPTH OF SLAB
(E) CONC SLAB
STD LAP
CONC SLAB W/ REINF PER PLAN
UNO #4 @ 16" OC EW
UNO SLAB THK TO MATCH (E), 4" MIN
4" EMBED
CJ (CLEAN, ROUGHEN SURFACE TO ¼" AMPLITUDE & APPLY BONDING AGENT)
BASE MATERIAL TO MATCH (E)
WHERE OCCURS, VAPOR MEMBRANE TO MATCH (E), INSTALL AS REQ PER MEMBRANE MFR

SLAB CONN TO (E) SOG


#4 DOWELS @ 16" OC EW AT MID-DEPTH OF SLAB
(E) CONC SLAB
MIN OF STD LAP OR (W-12")
CONC SLAB INFILL, THK TO MATCH (E), 4" MIN
4" EMBED
PATCH WIDTH OR LENGTH, W
CJ (CLEAN, ROUGHEN SURFACE TO ¼" AMPLITUDE & APPLY BONDING AGENT)
BASE MATERIAL TO MATCH (E)
WHERE OCCURS, (E) VAPOR MEMBRANE TO REMAIN INTACT, REPAIR/PATCH AS REQ PER MEMBRANE MFR

SLAB INFILL IN (E) SOG

NOTE:
INSTALL REINFORCING DOWELS PER POST-INSTALLED ANCHOR NOTES USING EITHER HILTI HIT-RE 500 V3 (SLOW CURE) ADHESIVE OR HILTI HIT-HY 200 V3 (FAST CURE) ADHESIVE. TENSION TEST NOT REQUIRED.

8 TYP SLAB-ON-GRADE CONN TO (E) SLAB

SCALE: NTS

REINFORCED CONCRETE

v20240618

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301 "SPECIFICATION FOR CONCRETE CONSTRUCTION" (EDITION REFERENCED BY CODE)..
2. CONCRETE SHALL BE NORMAL-WEIGHT (150 PCF) AND ATTAIN MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) AND WATER-CEMENT (W/C) RATIO AS FOLLOWS:

FOUNDATIONS	4000 PSI (W/C = 0.45)
WALLS, COLUMNS, PEDESTALS	4000 PSI (W/C = 0.45)
SLAB ON GRADE (INTERIOR)	4000 PSI (W/C = 0.40)
SITE WORK (RETAINING WALLS)	3000 PSI (W/C = 0.45)
CONCRETE FILL OVER STEEL DECK	4000 PSI (W/C = 0.50)

3. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II, EXCEPT TYPE V WHERE CONCRETE WILL BE IN CONTACT WITH SOIL.
4. AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR LIGHTWEIGHT CONCRETE. MAX AGGREGATE SIZE USED IN MIXES SHALL BE APPROPRIATE FOR FORM AND REBAR CLEARANCES ENCOUNTERED.
5. MINERAL ADMIXTURES SHALL COMPLY WITH ASTM C618, CLASS F.
6. LIQUID ADMIXTURES SHALL COMPLY WITH THE FOLLOWING:

WATER REDUCERS	ASTM C494 TYPE A
MID-RANGE WATER REDUCERS	ASTM C494 TYPE A & F
NON-CHLORIDE ACCELERATORS	ASTM C494 TYPE C OR C & E
RETARDING ADMIXTURES	ASTM C494 TYPE B OR B & D

7. REINFORCING STEEL IN CONCRETE
   A. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE.
   B. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 (TYP UNO).
   C. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. WWF SHALL BE LAP SPLICED TWO SQUARES MINIMUM EACH DIRECTION.
   D. NO REINFORCING IS TO BE WELDED UNLESS SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.
      - REBAR TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
      - WELDING SHALL CONFORM TO AWS D1.4 "STRUCTURAL WELDING CODE – STEEL REINFORCING BARS" (EDITION REFERENCED BY CODE).
      - WELDED SPLICES SHALL HAVE THE BARS BUTTED AND WELDED TO DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REBAR (75 KSI).
   E. TACK WELDING TO REBAR IS STRICTLY PROHIBITED.
   F. VERTICAL REINFORCING SHALL BE CONTINUOUS WITH NO SPLICES (UNO).
   G. HORIZONTAL REINFORCING SHALL BE LAP SPLICED WHEN REINFORCING IS NOT CONTINUOUS ONE PIECE. THE LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED SO THERE IS NO OVERLAP.
   H. LAP SPLICES SHALL BE CLASS B (TYP UNO). SEE TYP DETAIL FOR STANDARD LAP SPLICE LENGTHS.
   I. UNLESS DETAILED OTHERWISE, REINFORCING SPLICES SHALL BE LOCATED AS FOLLOWS:
      - BEAMS AND SPANDRELS: TOP BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE OF SUPPORTS.
      - SOIL-BEARING GRADE BEAMS/FOOTINGS: TOP BARS AT CENTERLINE OF SUPPORTED COLUMNS; BOTTOM BARS AT MID-SPAN.
      - AT DISCONTINUOUS ENDS: TERMINATE BARS WITH STANDARD HOOK EXTENDED TO THE FAR FACE OF THE SUPPORT OR BEAM.
   J. DOWELS SHALL MATCH SIZE AND LOCATION OF VERTICAL REINFORCING IN WALLS/COLUMNS. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING, AND SPLICE WITH STANDARD LAP TO EACH WALL/COLUMN REBAR (TYP UNO).
8. ALL DIMENSIONS SHOWN ON DRAWINGS FOR LOCATING REINFORCING ARE TO FACE OF BAR AND DENOTE CLEAR COVER. CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS (TYP UNO):

CONCRETE CAST AGAINST EARTH (EXCEPT SLAB-ON-GRADE)	3"
SLAB-ON-GRADE	CENTERED IN SLAB
CONCRETE FORMED AND EXPOSED TO EARTH OR WEATHER:	
#6 BAR & LARGER	2"
#5 BAR & SMALLER	1½"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
BEAMS, COLUMNS & PEDESTALS: ALL SIZES	1½"
SLABS, WALLS & JOISTS: #11 BAR & SMALLER	¾"

9. NO PIPES OR CONDUITS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS. REFER TO DESIGN DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
10. FORMS SHALL BE PROPERLY CONSTRUCTED CONFORMING TO CONCRETE SURFACE AS SHOWN ON THE DRAWINGS, SUFFICIENTLY TIGHT TO PREVENT LEAKAGE, SUFFICIENTLY STRONG AND BRACED TO MAINTAIN THEIR SHAPE AND ALIGNMENT UNTIL NO LONGER NEEDED TO SUPPORT THE CONCRETE.
11. AT CONSTRUCTION JOINTS HARDENED CONCRETE SURFACE SHALL BE CLEANED BY SANDBLASTING OR OTHER APPROVED MEANS TO EXPOSE FIRMLY EMBEDDED AGGREGATES PRIOR TO PLACING ADDITIONAL CONCRETE IN CONTACT WITH THESE SURFACES.
12. FORMS AND SHORING SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO WITHSTAND ALL LOADS TO BE IMPOSED WITHOUT EXCESSIVE STRESS, CREEP OR DEFLECTION; SEE SPECIFICATIONS.
13. ALL ITEMS TO BE EMBEDDED IN CONCRETE SUCH AS REINFORCING STEEL, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC. SHALL BE MECHANICALLY SECURED TO INSURE PROPER LOCATION, AND BE FREE OF EXCESSIVE SCALE, RUST, DIRT, GREASE OR ANY OTHER SUBSTANCES THAT WILL IMPAIR BOND WITH CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
14. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER MIN 48 HOURS PRIOR TO PLACING CONCRETE SO THAT THE STRUCTURAL ENGINEER MAY HAVE THE OPPORTUNITY OF REVIEWING THE WORK.

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CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

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24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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Vera Lynch
S5259
Exp 6/30/26

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

TYPICAL NOTES & DETAILS - CONCRETE
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\S0.1 TO S1.3 TYPICAL NOTES AND DETAILS.DWG

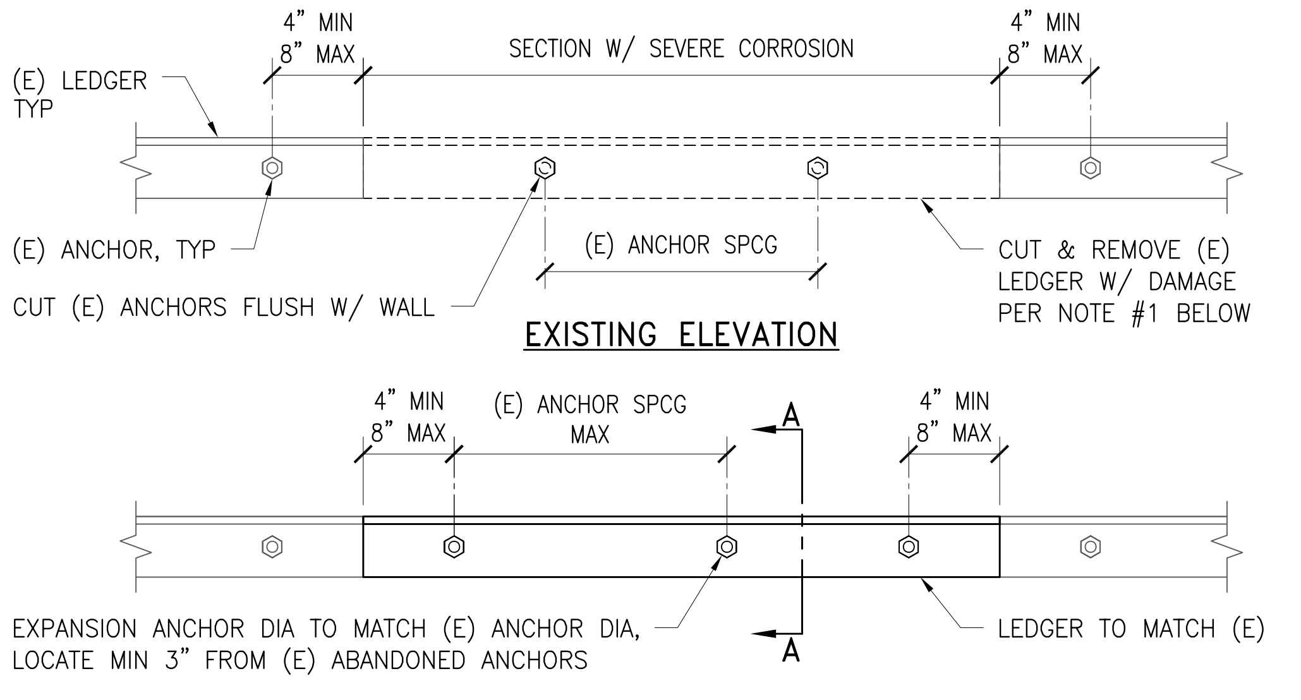
REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
S1.1
OF # SHEETS V3

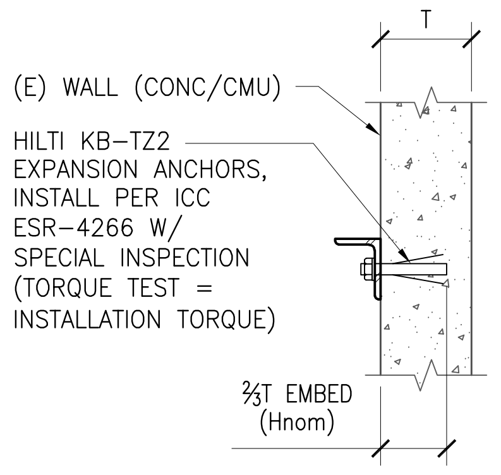
10/11/2024 8:34:25 AM


(E) LEDGER TYP
4" MIN 8" MAX
SECTION W/ SEVERE CORROSION
4" MIN 8" MAX
(E) ANCHOR, TYP
(E) ANCHOR SPCG
CUT (E) ANCHORS FLUSH W/ WALL
CUT & REMOVE (E) LEDGER W/ DAMAGE PER NOTE #1 BELOW
4" MIN 8" MAX
(E) ANCHOR SPCG MAX
A
4" MIN 8" MAX
EXPANSION ANCHOR DIA TO MATCH (E) ANCHOR DIA, LOCATE MIN 3" FROM (E) ABANDONED ANCHORS
A
LEDGER TO MATCH (E)

EXISTING ELEVATION

NEW ELEVATION

NOTES:
1. SEVERE CORROSION: REMOVE AND REPLACE DAMAGED LEDGER PER THIS DETAIL WHEN:
   A. DELAMINATED STEEL IS OBSERVED.
   B. REMAINING SECTION THICKNESS IS LESS THAN 90% OF ORIGINAL MATERIAL THICKNESS.
2. MINOR CORROSION: REMOVE SURFACE RUST ON LEDGER AS FOLLOWS:
   A. GRIND SURFACE SMOOTH USING WIRE BRUSH OR OTHER SIMILAR METHOD.
   B. RINSE WITH CLEAN WATER, WIPE CLEAN, AND LET SURFACES DRY.
   C. ENSURE ALL VISIBLE RUST IS REMOVED BEFORE APPLYING FINISHES/FIREPROOFING.


T
(E) WALL (CONC/CMU)
HILTI KB-TZ2 EXPANSION ANCHORS, INSTALL PER ICC ESR-4266 W/ SPECIAL INSPECTION (TORQUE TEST = INSTALLATION TORQUE)
⅔T EMBED (Hnom)

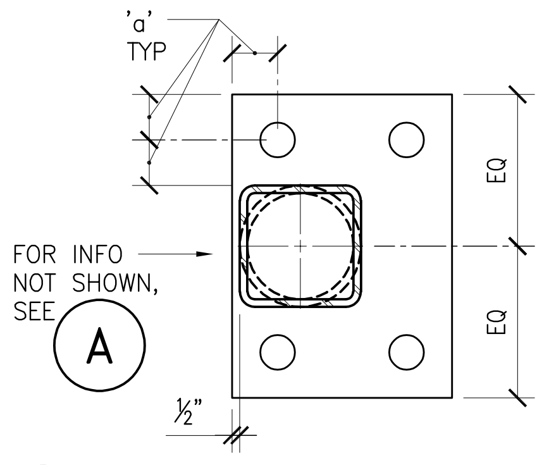
SECTION A-A

13 TYP REPAIR - DAMAGED STEEL LEDGER
SCALE: 1" = 1'-0"

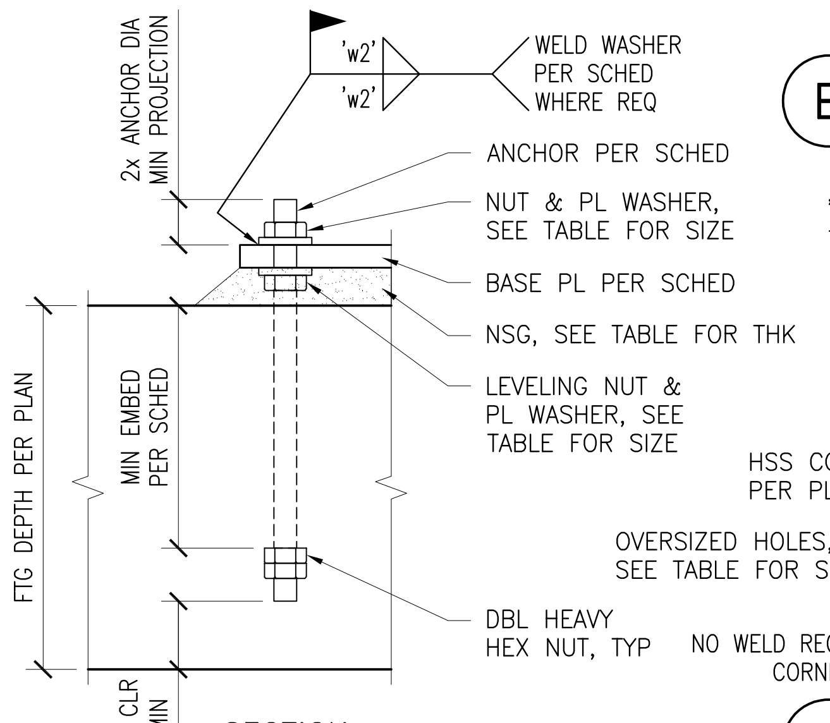
COLUMN BASE PLATE SCHEDULE					
COLUMN SIZE (LOCATION)	ANCHOR DIA	ANCHOR MIN EMBED	BASE PL THICKNESS	COLUMN WELD SIZE 'w'	WASHER WELD SIZE 'w2'
HSS6.000x (CANOPY)	3/4"	12"	3/4"	3/8	3/16
--	1"	16"	1"	3/8	N/A

DIMENSION TABLE BY ANCHOR DIA

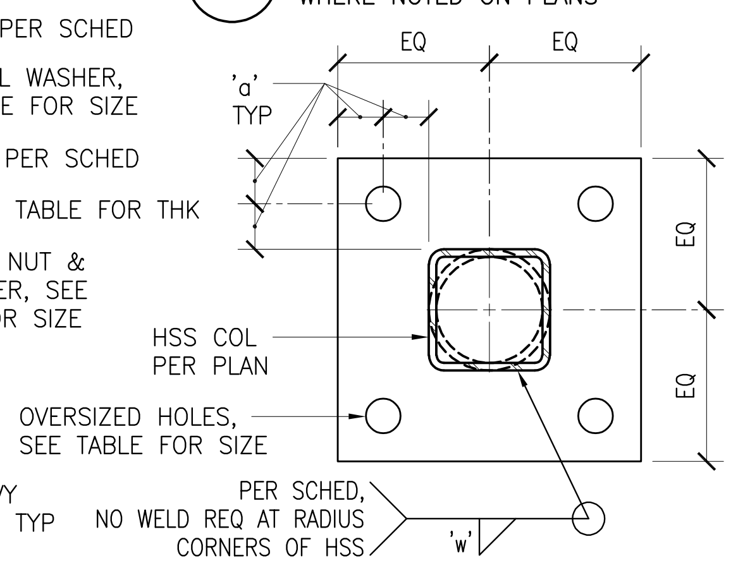
ANCHOR DIA	OVERSIZED HOLE DIA	PL WASHER W/ STD SIZE HOLE	DIM 'a'	NSG THICKNESS
¾"	1 5/16"	¼" x 2" SQ	2"	1½"
1"	1 13/16"	⅜" x 3" SQ	2½"	2"
1¼"	2 1/16"	½" x 3" SQ	2¾"	2½"
1½"	2 5/16"	½" x 3½" SQ	3"	2½"



B OFFSET BASE PLATE
WHERE NOTED ON PLANS

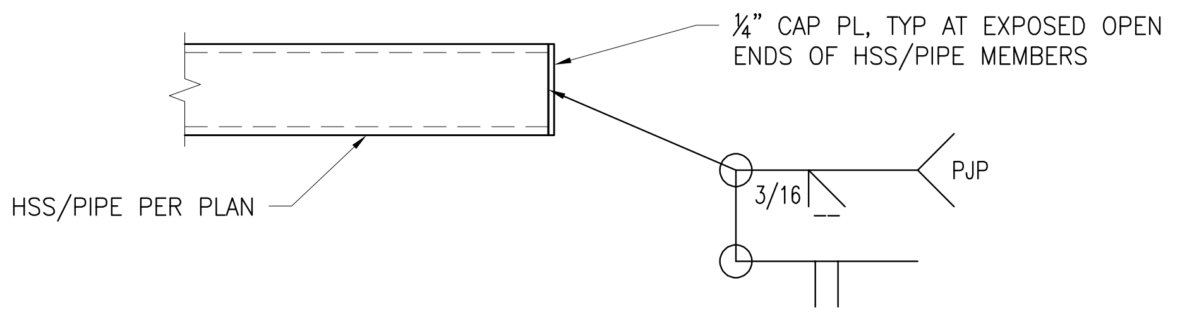

2x ANCHOR DIA MIN PROJECTION
'w2'
'w2'
WELD WASHER PER SCHED WHERE REQ
ANCHOR PER SCHED
NUT & PL WASHER, SEE TABLE FOR SIZE
BASE PL PER SCHED
NSG, SEE TABLE FOR THK
LEVELING NUT & PL WASHER, SEE TABLE FOR SIZE
FTG DEPTH PER PLAN
MIN EMBED PER SCHED
DBL HEAVY HEX NUT, TYP
3" CLR MIN

SECTION

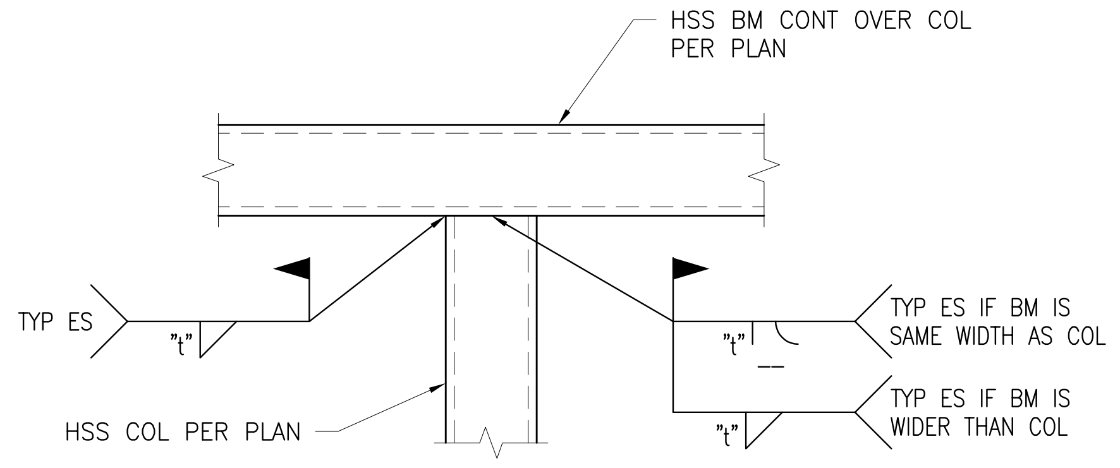

EQ
EQ
'a' TYP
EQ
EQ
HSS COL PER PLAN
OVERSIZED HOLES, SEE TABLE FOR SIZE
PER SCHED, NO WELD REQ AT RADIUS CORNERS OF HSS
'w'

A CENTERED BASE PLATE
TYP AT ALL COLS UNO

15 TYP HSS COLUMN BASE PLATE
SCALE: 1" = 1'-0"

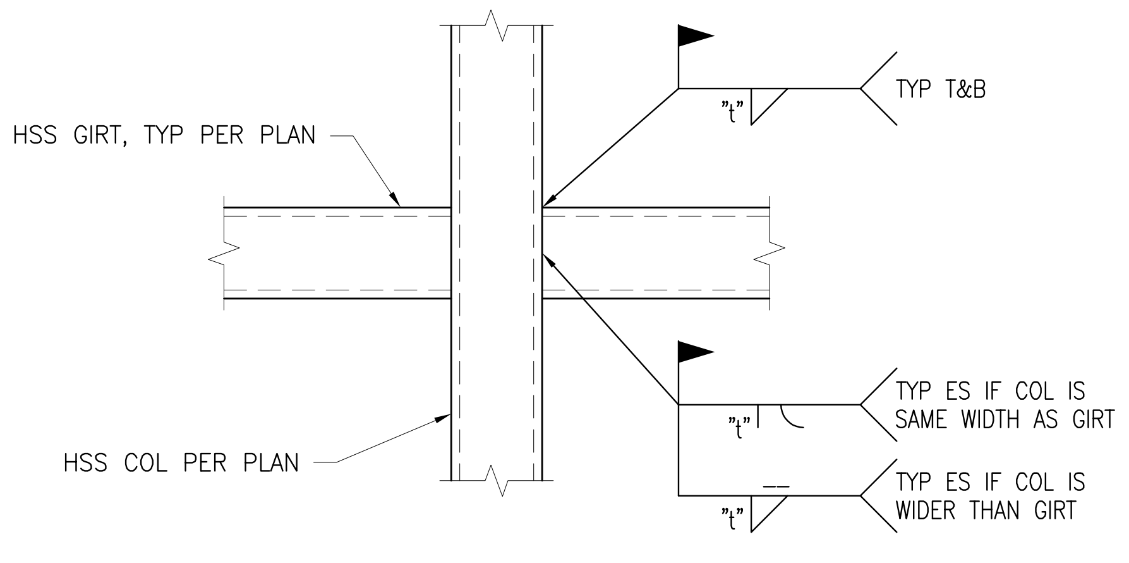


8 TYP CAP PLATE AT HSS/PIPE
SCALE: 1" = 1'-0"


HSS BM CONT OVER COL PER PLAN
TYP ES
"t"
HSS COL PER PLAN
"t"
TYP ES IF BM IS SAME WIDTH AS COL
"t"
TYP ES IF BM IS WIDER THAN COL

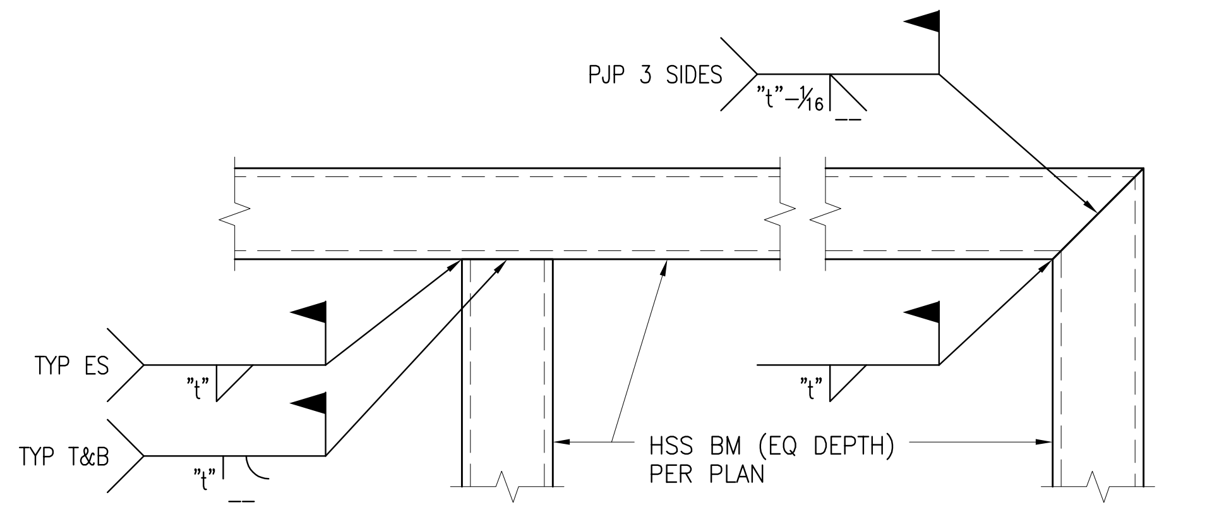
NOTES:
1. "t" SHALL BE THE LESSER OF THE THINNEST HSS WALL THK OR 5/16", TYP UNO.
2. AT ARCH EXPOSED CONNS, REMOVE ERECTION TABS & GRIND WELDS SMOOTH, TYP UNO.

9 TYP HSS BM OVER HSS COL CONN
SCALE: 1" = 1'-0"


"t"
TYP T&B
HSS GIRT, TYP PER PLAN
"t"
TYP ES IF COL IS SAME WIDTH AS GIRT
"t"
TYP ES IF COL IS WIDER THAN GIRT
HSS COL PER PLAN

NOTES:
1. "t" SHALL BE THE LESSER OF THE THINNEST HSS WALL THK OR 5/16", TYP UNO.
2. AT ARCH EXPOSED CONNS, REMOVE ERECTION TABS & GRIND WELDS SMOOTH, TYP UNO.

10 TYP HSS GIRT TO HSS COL CONN
SCALE: 1" = 1'-0"

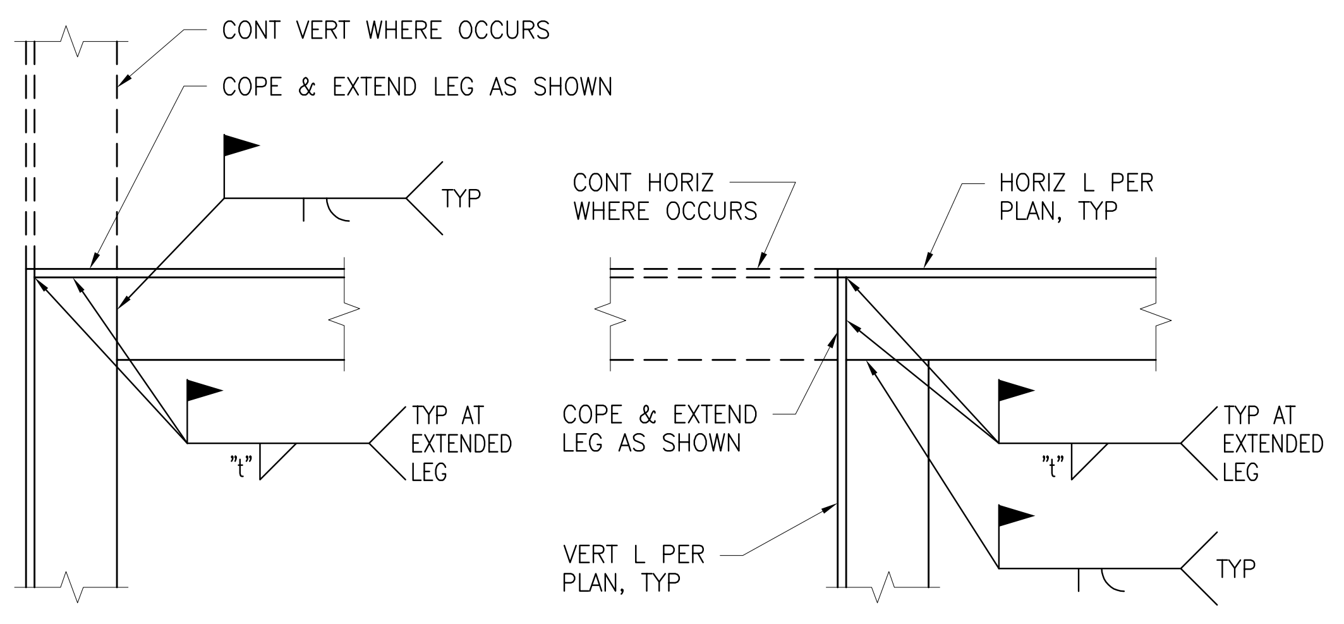


PLAN AT INTERSECTION

PLAN AT MITER CORNER

NOTES:
1. "t" SHALL BE THE LESSER OF THE THINNEST HSS WALL THK OR 5/16", TYP UNO.
2. AT ARCH EXPOSED CONNS, REMOVE ERECTION TABS & GRIND WELDS SMOOTH, TYP UNO.

11 TYP HSS BM TO HSS BM CONN
SCALE: 1" = 1'-0"



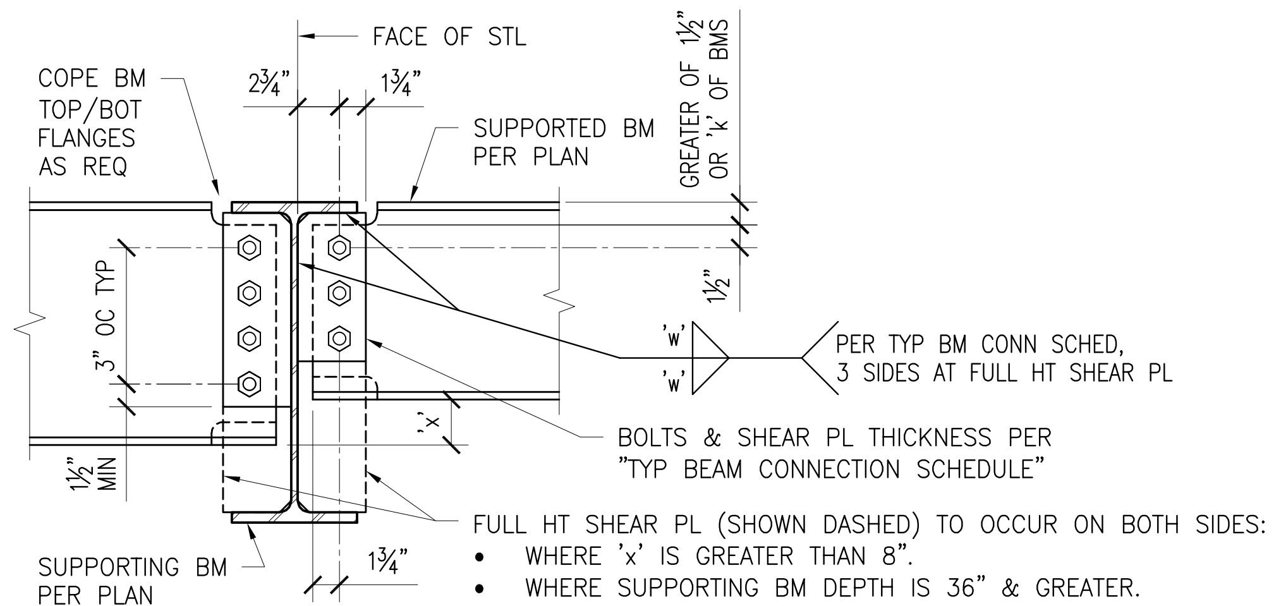
NOTES:
1. "t" SHALL BE THE LESSER OF THE THINNEST ANGLE THK OR 3/16", TYP UNO.
2. AT ARCH EXPOSED CONNS, REMOVE ERECTION TABS & GRIND WELDS SMOOTH, TYP UNO.

12 TYP STL ANGLE TO ANGLE CONN
SCALE: 1" = 1'-0"

BEAM CONNECTION SCHEDULE			
NOMINAL WF BEAM OR CHANNEL DEPTH	HIGH STRENGTH BOLTS (QUANTITY) DIA	SHEAR PL AT SINGLE ROW OF BOLTS	
		THICKNESS	WELD SIZE 'w'
8, 9, 10	(2) 7/8"	5/16"	3/16"
12, 13, 14	(3) 7/8"	3/8"	1/4"
15, 16, 18	(4) 7/8"	3/8"	1/4"
20, 21	(5) 7/8"	3/8"	1/4"
24	(6) 7/8"	1/2"	5/16"
27	(7) 7/8"	1/2"	5/16"
30	(8) 7/8"	1/2"	5/16"

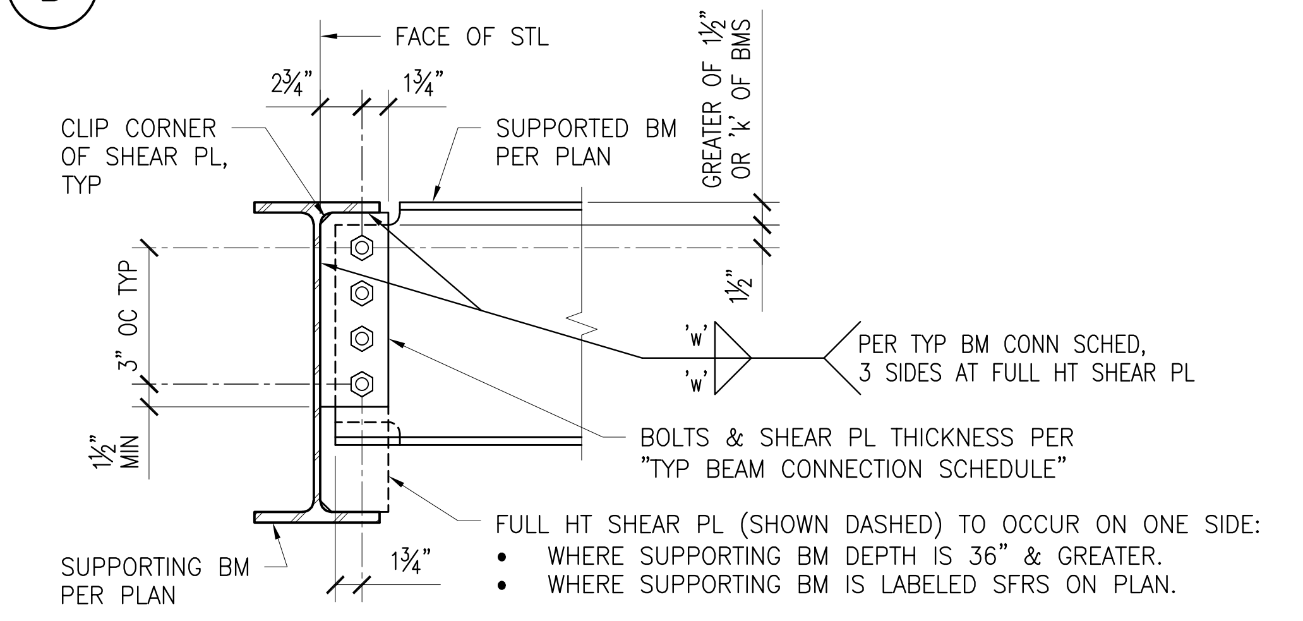
NOTES:
1. THIS SCHEDULE APPLIES TO NON-MOMENT FRAME CONNECTIONS.
2. BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES OR HORIZONTAL SHORT SLOT HOLES, TYP UNO.
3. GRAVITY FRAMING SHALL HAVE SNUG-TIGHTENED JOINTS, EXCEPT WHERE SLIP-CRITICAL (SC) JOINTS ARE INDICATED ON PLANS.
4. SLIP-CRITICAL (SC) JOINTS SHALL USE CLASS "A" FAYING SURFACE.

5 TYP BEAM CONNECTION SCHEDULE
WIDE FLANGE OR CHANNEL BEAMS


FACE OF STL
COPE BM TOP/BOT FLANGES AS REQ
2¾"
1¾"
SUPPORTED BM PER PLAN
GREATER OF 1½" OR 'k' OF BMS
3" OC TYP
1½"
1½" MIN
'w'
'w'
PER TYP BM CONN SCHED, 3 SIDES AT FULL HT SHEAR PL
'x'
BOLTS & SHEAR PL THICKNESS PER "TYP BEAM CONNECTION SCHEDULE"
SUPPORTING BM PER PLAN
1¾"

FULL HT SHEAR PL (SHOWN DASHED) TO OCCUR ON BOTH SIDES:
- WHERE 'x' IS GREATER THAN 8".
- WHERE SUPPORTING BM DEPTH IS 36" & GREATER.
- WHERE SUPPORTING BM IS LABELED SFRS ON PLAN.

B TWO-SIDED CONNECTION

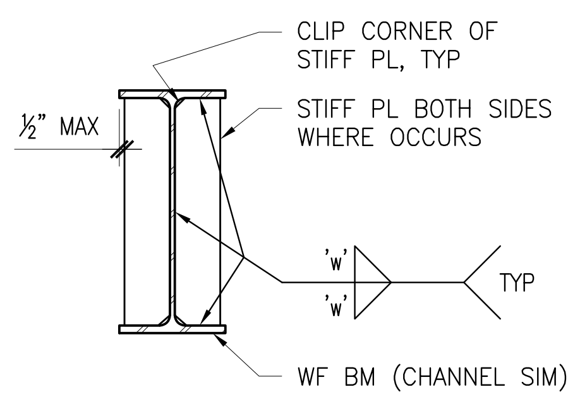

FACE OF STL
2¾"
1¾"
CLIP CORNER OF SHEAR PL, TYP
SUPPORTED BM PER PLAN
GREATER OF 1½" OR 'k' OF BMS
3" OC TYP
1½"
1½" MIN
'w'
'w'
PER TYP BM CONN SCHED, 3 SIDES AT FULL HT SHEAR PL
BOLTS & SHEAR PL THICKNESS PER "TYP BEAM CONNECTION SCHEDULE"
SUPPORTING BM PER PLAN
1¾"

FULL HT SHEAR PL (SHOWN DASHED) TO OCCUR ON ONE SIDE:
- WHERE SUPPORTING BM DEPTH IS 36" & GREATER.
- WHERE SUPPORTING BM IS LABELED SFRS ON PLAN.

A ONE-SIDED CONNECTION

NOTES:
1. WHERE BEAMS ARE OFFSET IN PLAN BY MORE THAN 24" ON OPPOSITE SIDES OF SUPPORTING BEAM, THE CONNECTION IS CONSIDERED ONE-SIDED.
2. FOR 'k' DIMENSION OF BEAM, SEE AISC.

6 TYP BEAM TO BEAM CONNECTION
SCALE: 1" = 1'-0"


CLIP CORNER OF STIFF PL, TYP
½" MAX
STIFF PL BOTH SIDES WHERE OCCURS
'w'
'w'
TYP
WF BM (CHANNEL SIM)

STIFFENER PLATE SCHEDULE		
NOMINAL WF BEAM OR CHANNEL DEPTH	STIFFENER PL	
	THICKNESS	WELD SIZE 'w'
8, 9, 10	5/16"	3/16"
12, 13, 14	5/16"	3/16"
15, 16, 18	3/8"	1/4"
20, 21	3/8"	1/4"
24, 27, 30	1/2"	5/16"

7 TYP STIFFENER PLATE
SCALE: 1" = 1'-0"

STRUCTURAL STEEL

v20240618

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" (EDITIONS REFERENCED BY CODE).

2. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO:

WIDE FLANGE	ASTM A992 (Fy=50 KSI)
RECTANGULAR OR SQUARE HSS	ASTM A500, GRADE C (Fy=50 KSI)
ROUND HSS	ASTM A500, GRADE C (Fy=46 KSI)
PIPE	ASTM A53, GRADE B (Fy=35 KSI)
CHANNEL, ANGLE, PLATE, BAR, MISC.	ASTM A36 (Fy=36 KSI)
MACHINE BOLTS (MB)	ASTM A307, GRADE A
HIGH STRENGTH BOLTS (HSB)	ASTM F3125, GRADE A325 (UNO)
NUTS (HEX OR HEAVY HEX)	ASTM A563
HARDENED WASHERS	ASTM F436
WELDED STUDS (HEADED OR THREADED)	ASTM A108, GRADE 1010 THRU 1020
ANCHOR RODS (HEADED OR THREADED & NUTTED)	ASTM F1554, GRADE 36 (Fy=36 KSI)
STAINLESS STEEL PIPE	ASTM A312, GRADE 304/316 (Fy=30 KSI)
STAINLESS STEEL CHANNEL, ANGLE, BAR	ASTM A276, GRADE 304/316 (Fy=30 KSI)
STAINLESS STEEL PLATE, SHEET	ASTM A240, GRADE 304/316 (Fy=30 KSI)

3. INTERIOR EXPOSED STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. NON-EXPOSED/CONCEALED STRUCTURAL STEEL SHALL BE LEFT UNPAINTED INCLUDING THE FOLLOWING:
   - STEEL SURFACES TO BE ENCASED IN CONCRETE, MASONRY, OR SPRAY-APPLIED FIREPROOFING.
   - STEEL CONTACT SURFACES OF STEEL-TO-STEEL CONNECTIONS TO BE WELDED OR BOLTED.
   - STEEL CONTACT SURFACES OF DECK-TO-STEEL CONNECTIONS TO BE WELDED.
   - STEEL ENCLOSED BY BUILDING FINISH, UNO.

4. EXTERIOR EXPOSED STRUCTURAL STEEL, MISCELLANEOUS METAL, AND FASTENERS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. ALL ENDS OF EXTERIOR HSS AND PIPE MEMBERS SHALL BE CAPPED WITH ¼" PLATE AND WELDED CONTINUOUSLY TO SEAL. TOUCH UP MEMBERS AND FIELD CONNECTIONS AFTER ERECTION AS REQUIRED.

5. PROVIDE CONCRETE/MASONRY COVER ON STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE CAST AGAINST EARTH SHALL HAVE 3" MINIMUM COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MINIMUM COVER.

6. PLACE NON-SHRINK GROUT UNDER ALL BASE PLATES BEFORE ADDING VERTICAL LOAD.

7. NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107, GRADE C, AND BE A PRE-MIXED NON-METALLIC FORMULA WITH NO CHLORIDES HAVING THE FOLLOWING CHARACTERISTICS:
   - FLOWABLE MIX AT TIME OF PLACEMENT,
   - NO SHRINKAGE AFTER PLACEMENT, AND
   - MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 5000 PSI.

8. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE AND WITHIN THE TOLERANCES SPECIFIED IN THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL.

9. STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.

10. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

11. BURNED HOLES ARE NOT ACCEPTABLE UNLESS THE STRUCTURAL ENGINEER GIVES SPECIAL PERMISSION.

12. BOLTED CONNECTIONS

   A. BOLTS SHALL BE MACHINE BOLTS, TYP UNO.

   B. USE STANDARD AISC GAGE AND PITCH FOR BOLTED CONNECTIONS, UNO.

   C. PROVIDE STANDARD HARDENED WASHERS UNDER THE TURNING ELEMENT OF BOLT (HEAD/NUT), UNO.

   D. BOLT HEAD/NUT OF CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER UNDER THE HEAD/NUT AT THE SLOPED SURFACE.

   E. TIGHTEN BOLTS WITH APPROVED METHODS PER AISC SPECIFICATIONS FOR STRUCTURAL JOINTS.

   F. BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES, TYP UNO. BOLTS FOR STEEL-TO-CONCRETE/MASONRY CONNECTIONS SHALL BE PLACED IN ANCHOR ROD HOLES, TYP UNO. HOLE DIMENSIONS SHALL BE AS FOLLOWS:

BOLT DIA (INCHES)	1/2	5/8	3/4	7/8	1
STANDARD SIZE HOLE (DIA)	9/16"	11/16"	13/16"	15/16"	1 1/16"
OVERSIZED HOLE (DIA)	⅝"	13/16"	15/16"	1 1/16"	1¼"
SHORT SLOT (WIDTH x LENGTH)	9/16"x11/16"	11/16"x⅞"	13/16"x1"	15/16"x1⅛"	1 1/16"x1 5/16"
LONG SLOT (WIDTH x LENGTH)	9/16"x1¼"	11/16"x1 9/16"	13/16"x1⅞"	15/16"x2 3/16"	1 1/16"x2½"
ANCHOR ROD HOLE (DIA)	15/16"	1 1/16"	1 5/16"	1 9/16"	1 13/16"

   G. PLATE WASHER SCHEDULE (WITH STANDARD SIZE HOLE AT CENTER):

BOLT DIA (INCHES)	1/2	5/8	3/4	7/8	1
STEEL PLATE WASHER	3/16"x 1½"SQ	¼"x 1¾'SQ	¼"x 2"SQ	5/16"x 2½"SQ	⅜"x 3"SQ

   PLATE WASHERS SHALL BE USED AT OVERSIZED HOLES AND ANCHOR ROD HOLES, TYP.

13. WELDED CONNECTIONS

   A. WELDING SHALL CONFORM TO APPLICABLE AWS CODES (EDITIONS REFERENCED BY CODE).
      AWS D1.1: STRUCTURAL WELDING CODE – STEEL
      AWS D1.3: STRUCTURAL WELDING CODE – SHEET STEEL
      AWS D1.6: STRUCTURAL WELDING CODE – STAINLESS STEEL
      AWS D1.8: STRUCTURAL WELDING CODE – SEISMIC SUPPLEMENT

   B. ELECTRODES FOR WELDING SHALL COMPLY WITH AWS CODE, E70 SERIES MINIMUM.

   C. WELDING SHALL ONLY BE DONE BY CERTIFIED WELDERS.

   D. WELDING PROCEDURE SPECIFICATIONS (WPS) FOR SHOP AND FIELD PREQUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE PREPARED AND SUBMITTED TO OWNER'S TESTING LABORATORY FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WELDING.

   E. SHOP AND FIELD WELDING SHALL BE INSPECTED BY AN APPROVED TESTING LABORATORY.

   F. WELDING SEQUENCE SHALL BE PLANNED TO MINIMIZE RESIDUAL STRESSES AND DISTORTIONS OF INDIVIDUAL MEMBERS.

   G. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED.

   H. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE FILLET WELD AS FOLLOWS:

⅛" FOR MATERIAL ⅛" TO ¼" THICK	¼" FOR MATERIAL OVER ½" TO ¾" THICK
3/16" FOR MATERIAL OVER ¼" TO ½" THICK	5/16" FOR MATERIAL OVER ¾" THICK

   MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 1½".

   H. GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS, UNO. GROOVE WELDS SHALL BE TERMINATED AT THE END OF JOINTS IN A MANNER THAT WILL ENSURE SOUND WELDS. USE WELD TABS AND BACKING BARS ALIGNED TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION. REMOVE EXTENSIONS UPON COMPLETION AND COOLING OF THE WELD. GRIND ENDS OF THE WELD SMOOTH AND FLUSH WITH THE EDGES OF THE ABUTTING PARTS.

   I. WHERE "ALL AROUND" FILLET WEDS ARE INDICATED AT NON-EXPOSED/CONCEALED RECTANGULAR OR SQUARE HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIUSED CORNERS.

   J. ARCHITECTURALLY EXPOSED WELDS SHALL BE GROUND SMOOTH, TYP UNO.

14. SHOP FABRICATED WORK SHALL BE DONE IN A SHOP APPROVED BY THE GOVERNING AGENCY. FABRICATOR SHALL SUBMIT PROGRAM OF WELDING INSPECTION TO ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL.

15. SUBMIT SHOP DRAWINGS FOR THE FABRICATION AND ERECTION OF ALL ASSEMBLIES OF STRUCTURAL STEEL WORK. INCLUDE PLANS, ELEVATIONS, DETAILS AND SECTIONS. NO WORK OR FABRICATION SHALL BE COMMENCED OR MATERIAL DELIVERED TO THE JOB UNTIL THE ARCHITECT/STRUCTURAL ENGINEER HAVE REVIEWED AND APPROVED THE SHOP DRAWINGS.

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

VERA LYNCH
S5259
Exp 6/30/26

Vera Lynch

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

COR
24-014

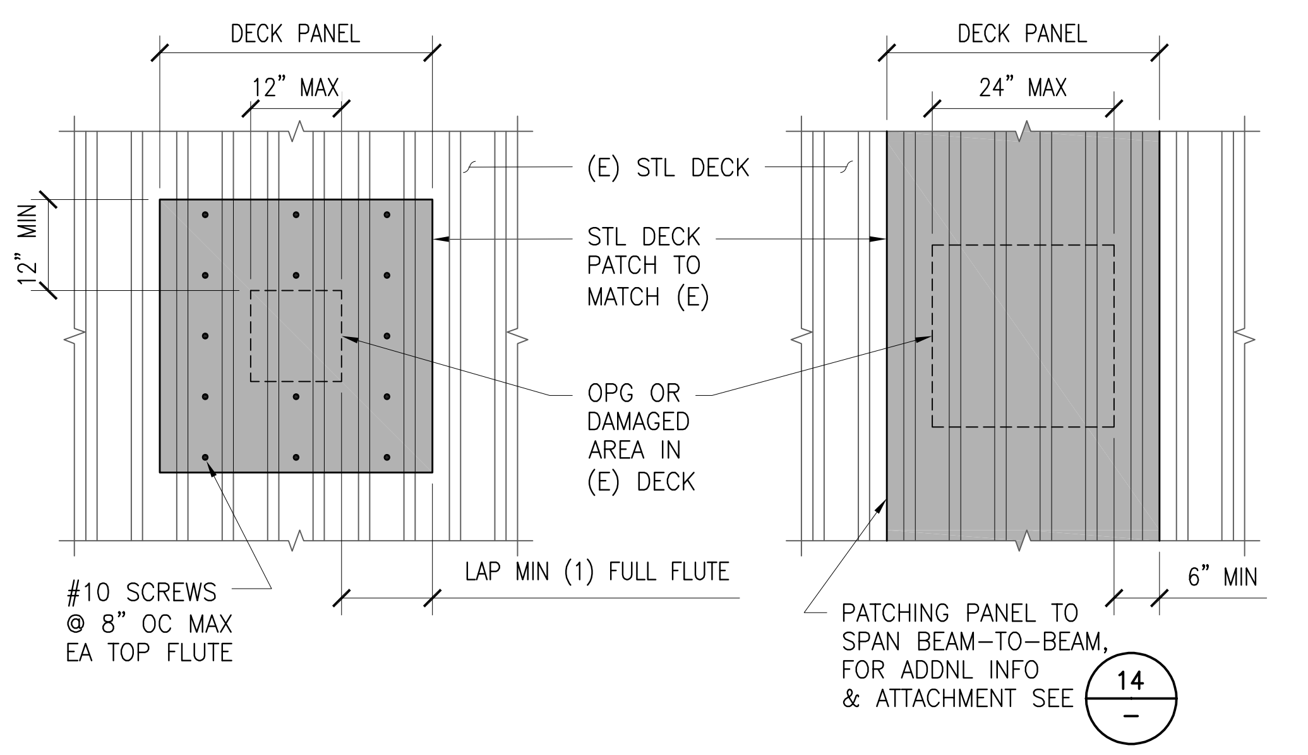
TYPICAL NOTES & DETAILS - STRUCTURAL STEEL
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\S0.1 TO S1.3 TYPICAL NOTES AND DETAILS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024
SHEET NUMBER
S1.2
OF # SHEETS V3

10/11/2024 8:34:48 AM

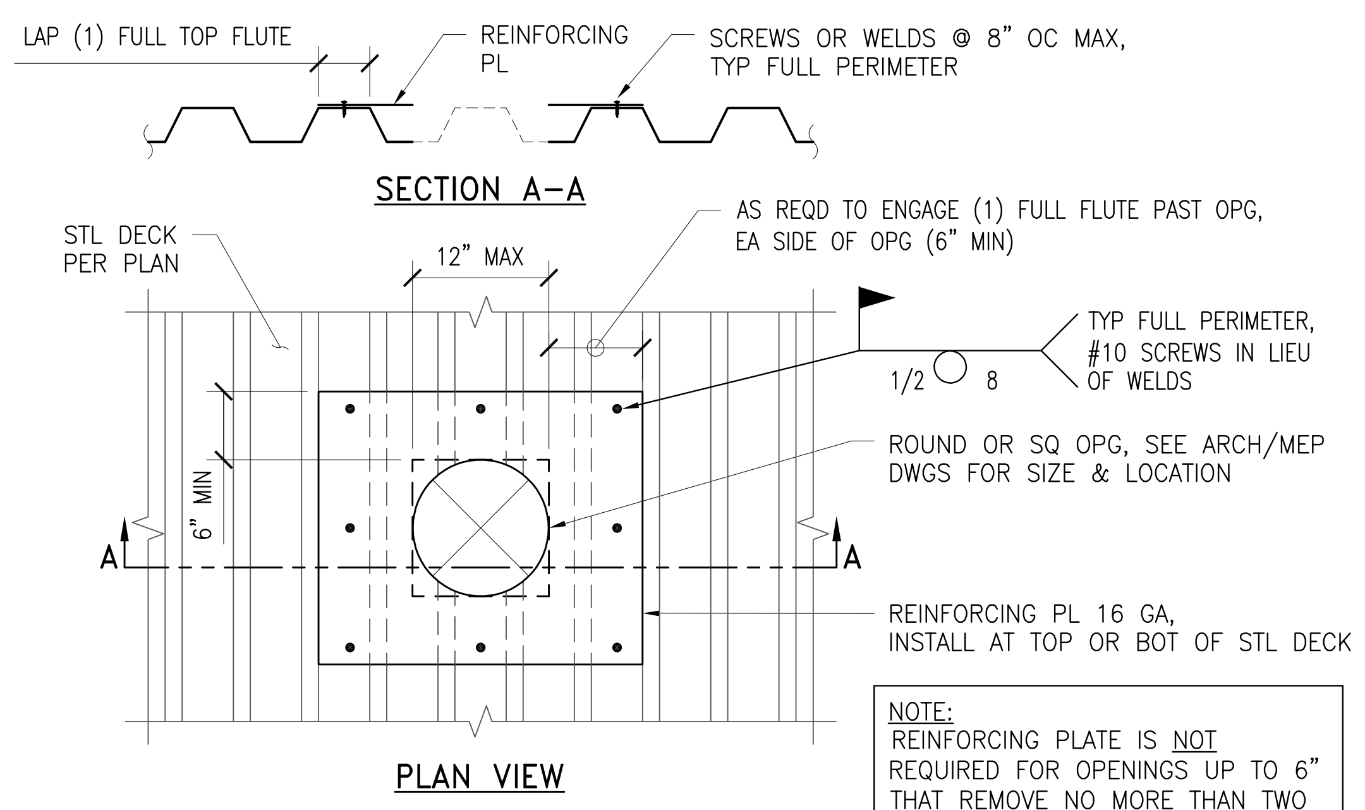

DECK PANEL
12" MAX
12" MIN
(E) STL DECK
STL DECK PATCH TO MATCH (E)
OPG OR DAMAGED AREA IN (E) DECK
#10 SCREWS @ 8" OC MAX EA TOP FLUTE
LAP MIN (1) FULL FLUTE
DECK PANEL
24" MAX
6" MIN
PATCHING PANEL TO SPAN BEAM-TO-BEAM, FOR ADDNL INFO & ATTACHMENT SEE 14/–

SMALL OPG OR DAMAGED AREA
MAX 12"

MEDIUM OPG OR DAMAGED AREA
GREATHER THAN 12", MAX 24"

13 TYP REPAIR – STEEL DECK PATCH

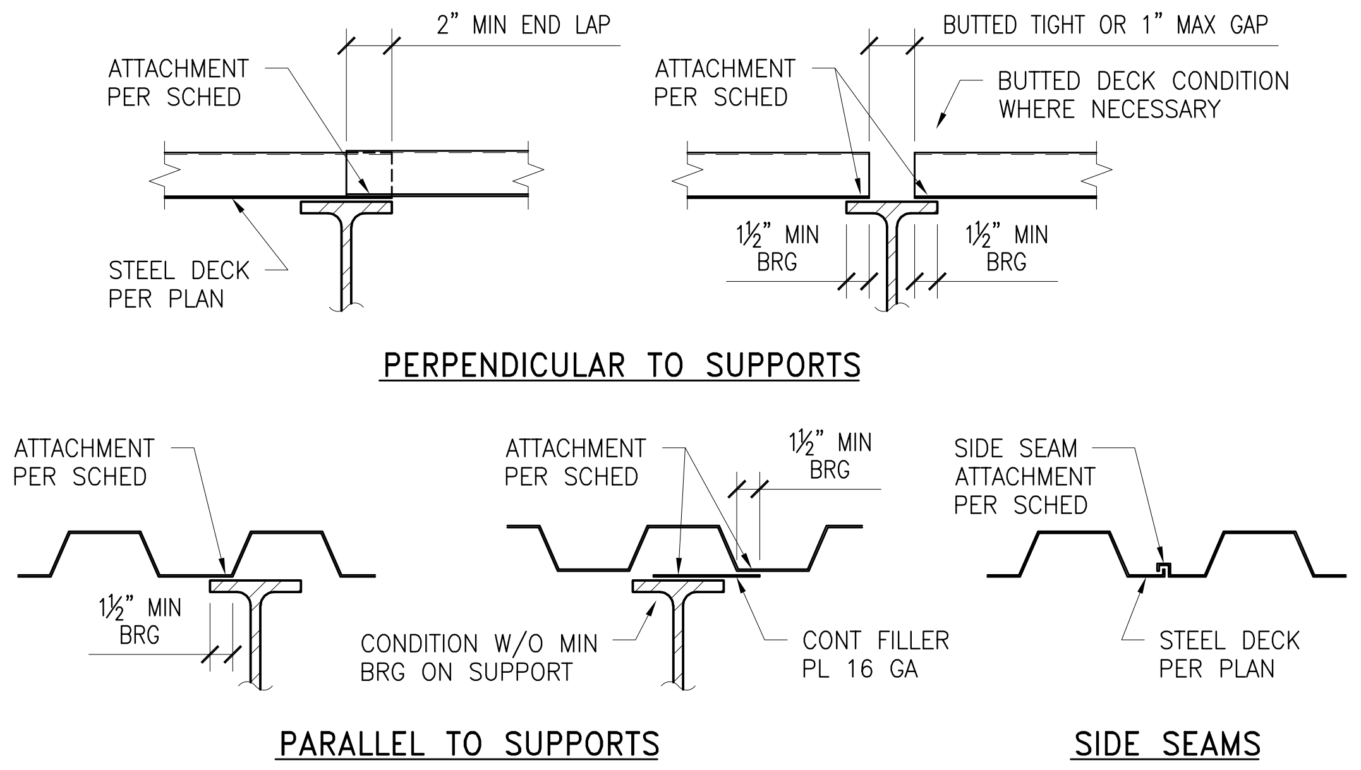
SCALE: 1/2" = 1'-0"


LAP (1) FULL TOP FLUTE
REINFORCING PL
SCREWS OR WELDS @ 8" OC MAX, TYP FULL PERIMETER
SECTION A-A
STL DECK PER PLAN
12" MAX
AS REQD TO ENGAGE (1) FULL FLUTE PAST OPG, EA SIDE OF OPG (6" MIN)
1/2 8
TYP FULL PERIMETER, #10 SCREWS IN LIEU OF WELDS
ROUND OR SQ OPG, SEE ARCH/MEP DWGS FOR SIZE & LOCATION
6" MIN
A
A
REINFORCING PL 16 GA, INSTALL AT TOP OR BOT OF STL DECK
PLAN VIEW

NOTE:
REINFORCING PLATE IS NOT REQUIRED FOR OPENINGS UP TO 6" THAT REMOVE NO MORE THAN TWO WEBS OF STEEL DECK.

9 TYP STEEL DECK SMALL OPENINGS – MAX 12"

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



NOTE:
MINIMUM EDGE DISTANCE FOR ATTACHMENTS IS ¾" FOR WELDS AND ½" FOR SCREWS.

5 TYP STEEL DECK ATTACHMENT

SCALE: NTS

STEEL DECK

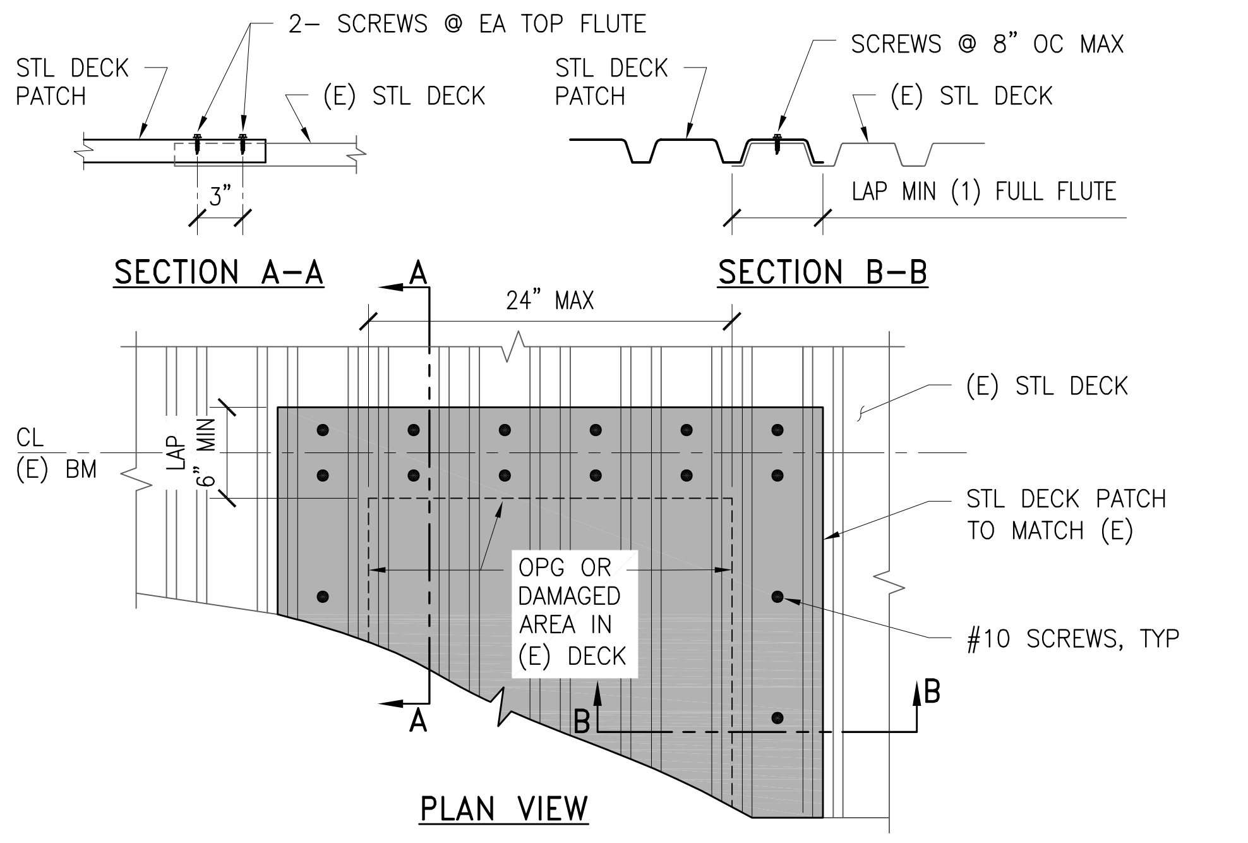
v20240911

1. STEEL DECK TYPES AND EXTENTS ARE AS NOTED ON THE DRAWINGS. SEE DETAILS FOR MINIMUM SECTION PROPERTIES AND ATTACHMENT. MANUFACTURER SHALL BE AS SPECIFIED IN DETAILS OR APPROVED EQUAL.
2. STEEL DECK SHALL BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) DESIGNATION, GRADE 50 (Fy = 50 KSI), WITH GALVANIZED COATING ASTM G60, TYP UNO.
3. ACCESSORIES SHALL BE FABRICATED FROM THE SAME GAUGE AND MATERIAL AS ADJACENT STEEL DECK UNO TO BE HEAVIER MATERIAL ON DRAWINGS.
4. DECK SHALL SHALL HAVE 1½" MINIMUM BEARING ON ALL SUPPORTS.
5. SCREWS SHALL BE #12 SELF-DRILLING SCREWS WITH GALVANIZED FINISH MANUFACTURED IN ACCORDANCE WITH SAE J78 AND COMPLIANT WITH ASTM C1513. ALL FASTENERS MUST HAVE A VALID, CURRENT EVALUATION REPORT ISSUED BY AN APPROVED AND ACCREDITED EVALUATION SERVICE.
6. WELDS SHALL BE ARC SPOT (PUDDLE) OR ARC SEAM WELDS WITH A MINIMUM EFFECTIVE FUSION AREA AS NOTED BELOW. THE WELD FILLER METAL SHALL BE DESIGNATED AS A MINIMUM OF 60 KSI AND COMPLY WITH THE APPROPRIATE AWS STANDARD.
   - ARC SPOT (PUDDLE) WELD .... ½ INCH EFFECTIVE DIAMETER
   - ARC SEAM WELD .... ⅜ INCH EFFECTIVE WIDTH x 1 INCH MIN LENGTH
7. WELDING SHALL CONFORM WITH AWS D1.3 "STRUCTURAL WELDING CODE – SHEET STEEL" (EDITION REFERENCED BY CODE) AND BE PERFORMED BY CERTIFIED WELDERS. WELDING PROCEDURE SPECIFICATIONS (WPS) SHALL BE PREPARED AND SUBMITTED TO OWNER'S TESTING LABORATORY FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WELDING.
8. STEEL DECK SHOP DRAWINGS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

SHEAR CONNECTOR STUDS

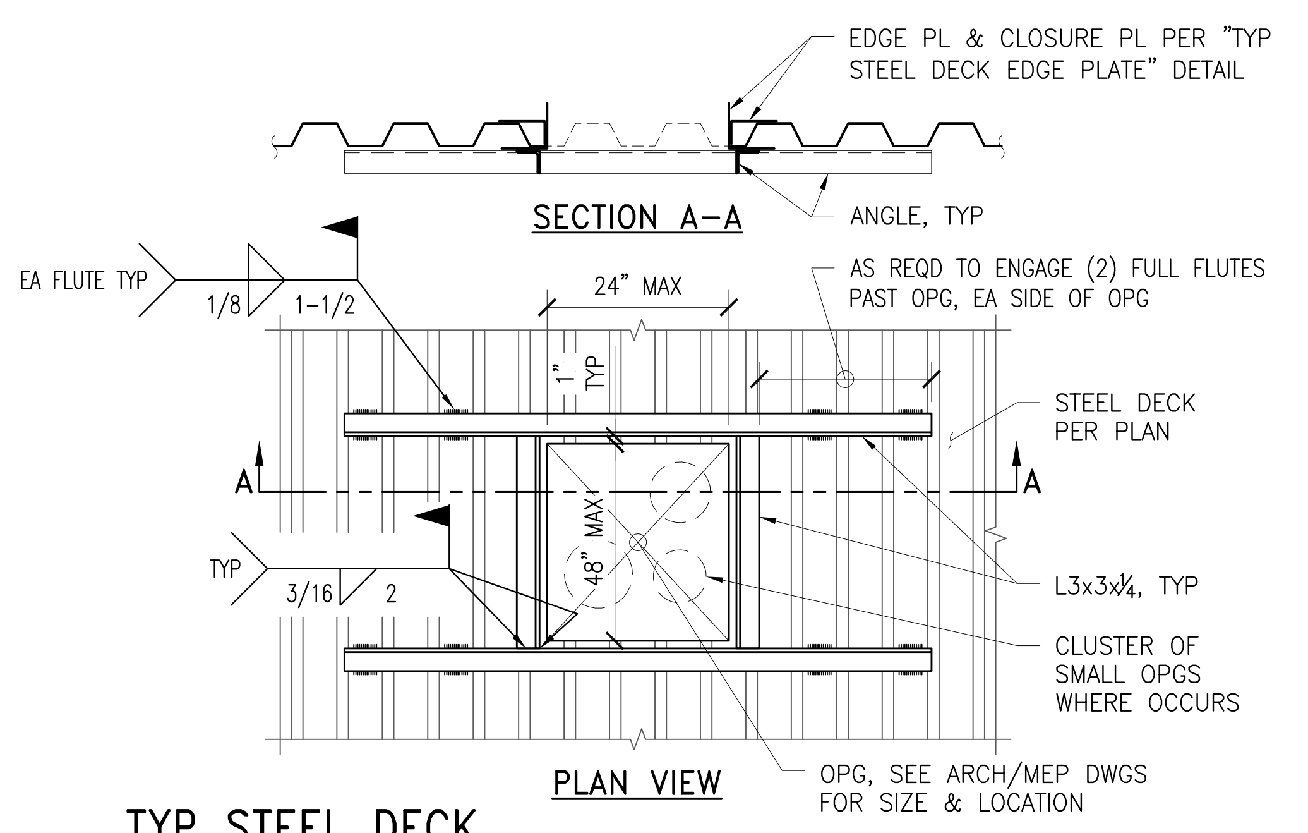
v20240618

1. MATERIAL: AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED SHEAR CONNECTORS OR ANCHOR STUDS (OR APPROVED EQUAL). STUDS SHALL BE MANURACTURED OF C-1015 COLD ROLLED STEEL WHICH CONFORMS TO ASTM A108, GRADE 1010 THRU 1020.
2. INSTALLATION: THE STUDS SHALL BE AUTOMATICALLY WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY ⅛" FOR STUDS ⅝" DIAMETER OR LESS, AND 3⁄16" FOR STUDS OVER ⅝" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.
3. INSPECTION AND TESTS: INSPECTION OF ALL SHOP AND FIELD WELDING OPERATIONS FOR AUTOMATIC END WELDED STUDS SHALL BE MADE BY A QUALIFIED WELDING INSPECTOR. THE TYPE AND CAPACITY OF THE WELDING EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE CHECKED AND APPROVED BY A WELDING INSPECTOR. AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF 2 TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE USED TO METAL WHICH IS THE SAME AS THE ACTUAL WORK PIECE. THE TEST STUDS SHALL BE SUBJECTED TO A 90 DEGREE BEND TEST BY STRIKING WITH A HEAVY HAMMER. AFTER THE ABOVE TEST, THE WELD SECTION SHALL NOT EXHIBIT ANY TEARING OUT OR CRACKING.



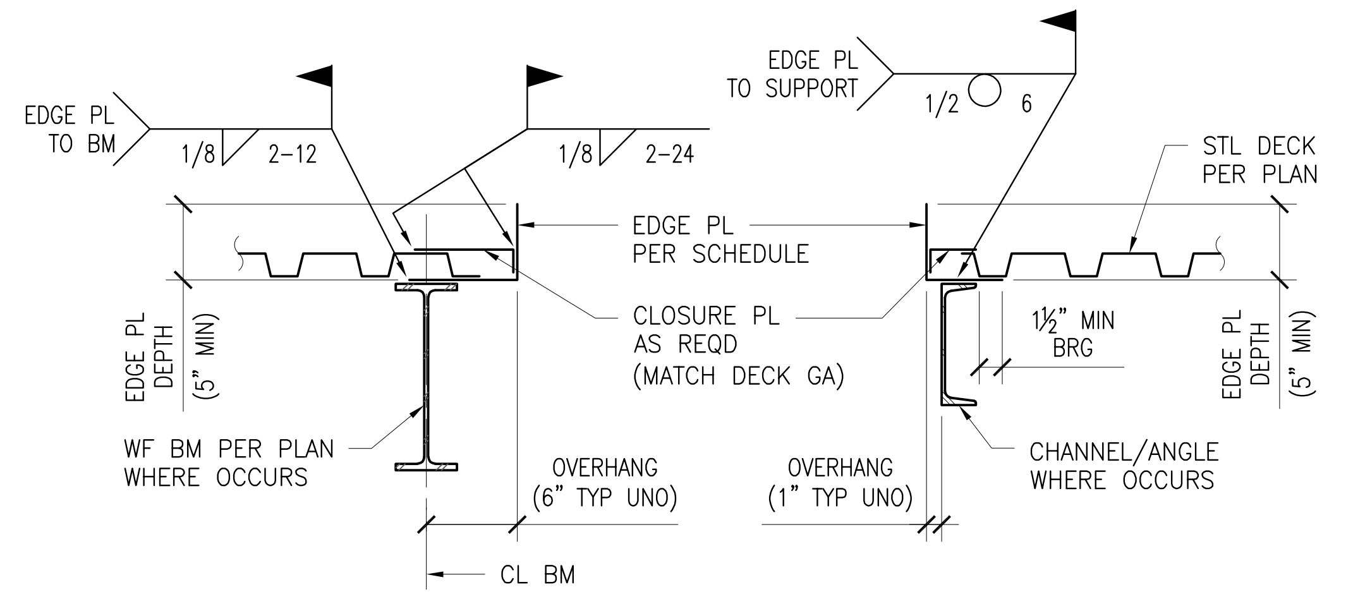
14 TYP REPAIR – STEEL DECK PATCH ATTACHMENT

SCALE: 1" = 1'-0"


EDGE PL & CLOSURE PL PER "TYP STEEL DECK EDGE PLATE" DETAIL
SECTION A-A
ANGLE, TYP
EA FLUTE TYP
1/8 1-1/2
24" MAX
AS REQD TO ENGAGE (2) FULL FLUTES PAST OPG, EA SIDE OF OPG
1" TYP
STEEL DECK PER PLAN
A
A
48" MAX
TYP
3/16 2
L3x3x¼, TYP
CLUSTER OF SMALL OPGS WHERE OCCURS
PLAN VIEW
OPG, SEE ARCH/MEP DWGS FOR SIZE & LOCATION

10 TYP STEEL DECK MEDIUM OPENINGS – GREATER THAN 12", MAX 24"

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



SCHEDULE						
MAX OVERHANG	2"	4"	6"	8"	10"	OVER 10"
EDGE PL THICKNESS	18 GA	16 GA	14 GA	12 GA	10 GA	PER PLAN

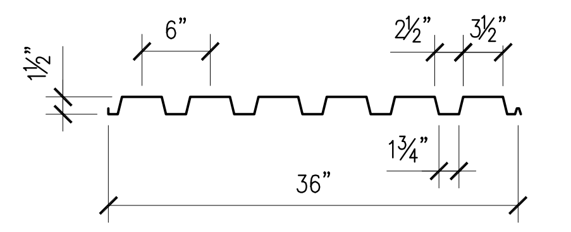
6 TYP STEEL DECK EDGE PLATE

SCALE: 1" = 1'-0"

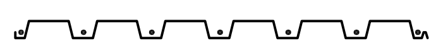
3 TYPE 'B' STEEL DECK PROPERTIES & ATTACHMENT

VERCO DECKING INC. (IAPMO UES ER-2018)

MINIMUM SECTION PROPERTIES

DECK TYPE	DECK GAGE	Ixg (IN^4/FT)	Se+ (IN^3/FT)	Se– (IN^3/FT)	DECK PROFILE
B	20	0.231	0.230	0.237	
	18	0.306	0.314	0.331	
	16	0.381	0.399	0.410	

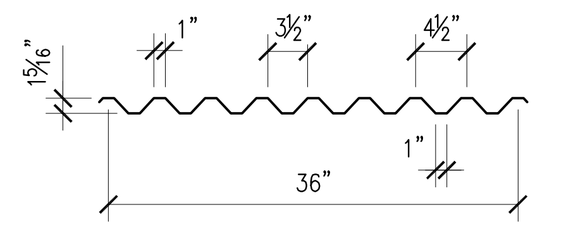
ATTACHMENT SCHEDULE

LOCATION DECK MARK	DECK TYPE & GAGE	ATTACHMENT PER SHEET AT ALL PERP SUPPORTS	ATTACHMENT AT ALL PARALLEL SUPPORTS	SIDE SEAM ATTACHMENT
ROOF	B 18 GA	7– WELDS OR SCREWS 	WELDS OR SCREWS @ 12" OC	BUTTON PUNCH @ 12" OC

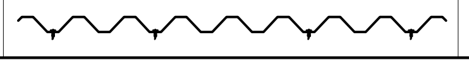
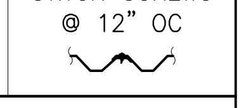
4 TYPE 'DV' STEEL DECK PROPERTIES & ATTACHMENT

VERCO DECKING INC. (IAPMO UES ER-2018) – ASTM A653 SS GR80 WITH G90

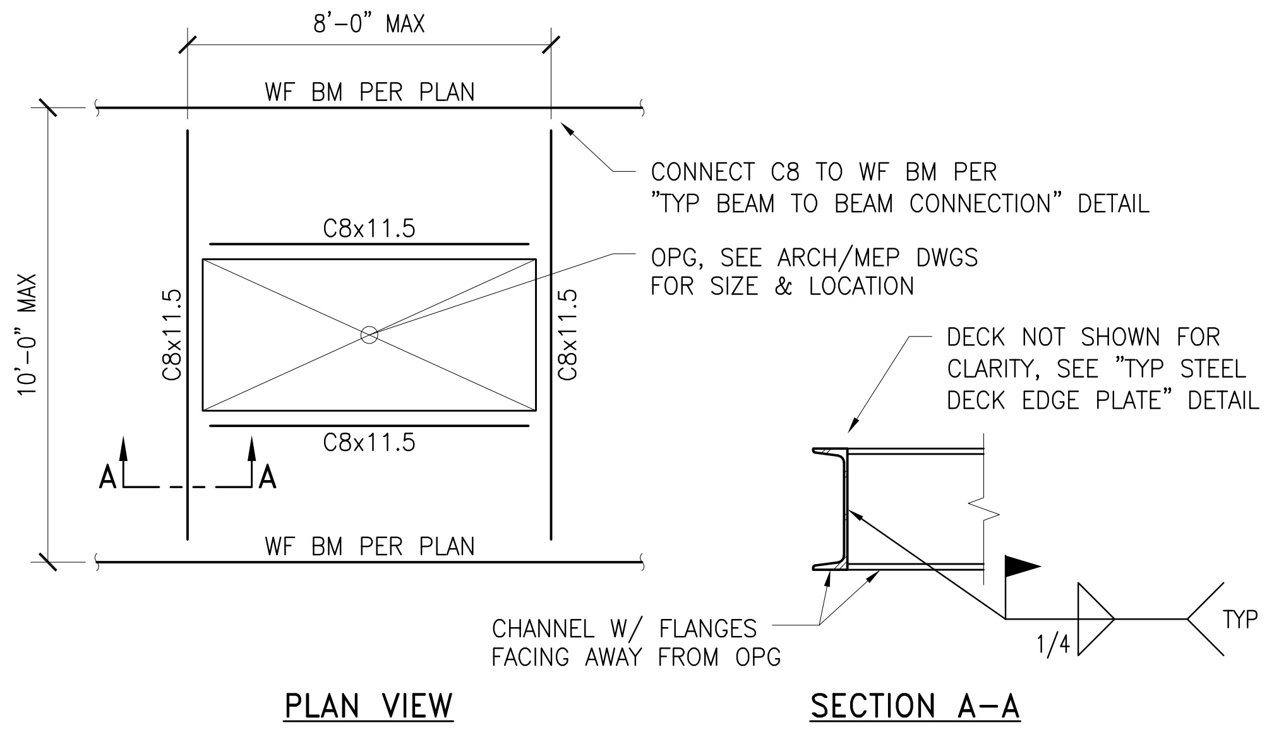
MINIMUM SECTION PROPERTIES

DECK TYPE	DECK GAGE	Ixg (IN^4/FT)	Se+ (IN^3/FT)	Se– (IN^3/FT)	DECK PROFILE
DEEP VERCOR (DV) INVERTED	20	0.143	0.204	0.204	

ATTACHMENT SCHEDULE

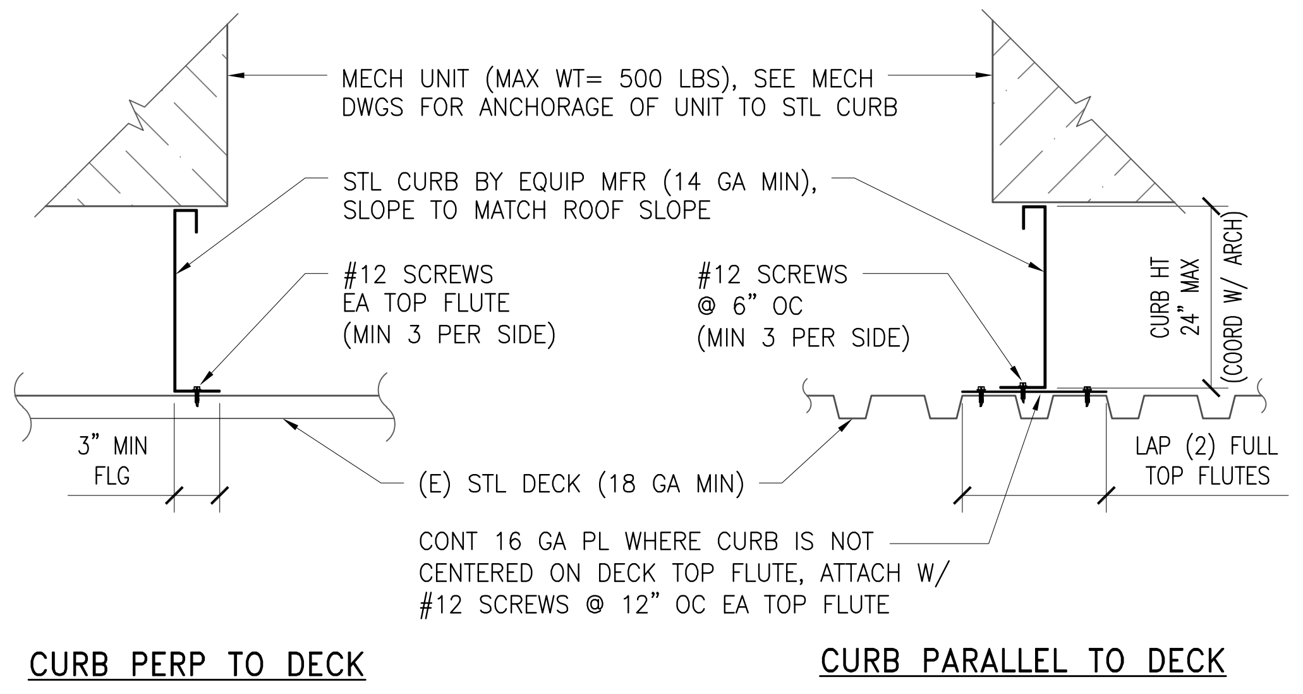
LOCATION DECK MARK	DECK TYPE & GAGE	ATTACHMENT PER SHEET AT ALL PERP SUPPORTS	ATTACHMENT AT ALL PARALLEL SUPPORTS	SIDE SEAM ATTACHMENT
CANOPY ROOF	DV INVERTED 20 GA	4– SCREWS 	SCREWS @ 12" OC	STITCH SCREWS @ 12" OC 

NOTES:
1. EXPOSED SCREWS SHALL HAVE SEALING WASHERS.


8'-0" MAX
WF BM PER PLAN
CONNECT C8 TO WF BM PER "TYP BEAM TO BEAM CONNECTION" DETAIL
C8x11.5
OPG, SEE ARCH/MEP DWGS FOR SIZE & LOCATION
10'-0" MAX
C8x11.5
C8x11.5
C8x11.5
DECK NOT SHOWN FOR CLARITY, SEE "TYP STEEL DECK EDGE PLATE" DETAIL
A
A
WF BM PER PLAN
CHANNEL W/ FLANGES FACING AWAY FROM OPG
1/4
TYP
PLAN VIEW
SECTION A-A

11 TYP STEEL DECK LARGE OPENINGS: GREATER THAN 24", MAX 96"

SCALE: NTS


MECH UNIT (MAX WT= 500 LBS), SEE MECH DWGS FOR ANCHORAGE OF UNIT TO STL CURB
STL CURB BY EQUIP MFR (14 GA MIN), SLOPE TO MATCH ROOF SLOPE
#12 SCREWS EA TOP FLUTE (MIN 3 PER SIDE)
#12 SCREWS @ 6" OC (MIN 3 PER SIDE)
CURB HT 24" MAX (COORD W/ ARCH)
3" MIN FLG
(E) STL DECK (18 GA MIN)
LAP (2) FULL TOP FLUTES
CONT 16 GA PL WHERE CURB IS NOT CENTERED ON DECK TOP FLUTE, ATTACH W/ #12 SCREWS @ 12" OC EA TOP FLUTE
CURB PERP TO DECK
CURB PARALLEL TO DECK

NOTE:
WHERE DECK OPG OCCURS BELOW MECH UNIT, SEE TYP STL DECK OPENING DETAILS FOR FRAMING AND EDGE/CLOSURE PL CONDITIONS.

7 TYP MECH UNIT CURB SUPPORT AT STL DECK

SCALE: 1" = 1'-0"

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VERA LYNCH
S5259
Exp 6/30/26

Vera Lynch

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

TYPICAL NOTES & DETAILS - STEEL DECK

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\S0.1 TO S1.3 TYPICAL NOTES AND DETAILS.DWG

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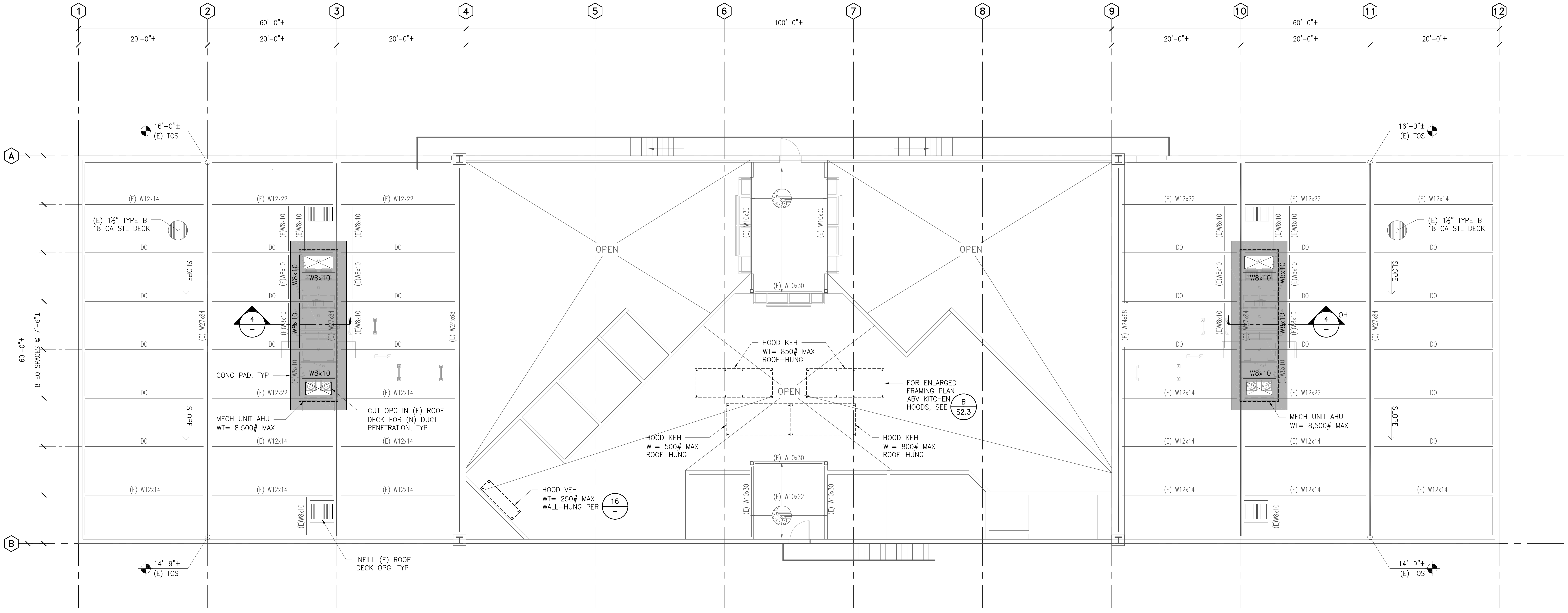
S1.3
OF # SHEETS V3



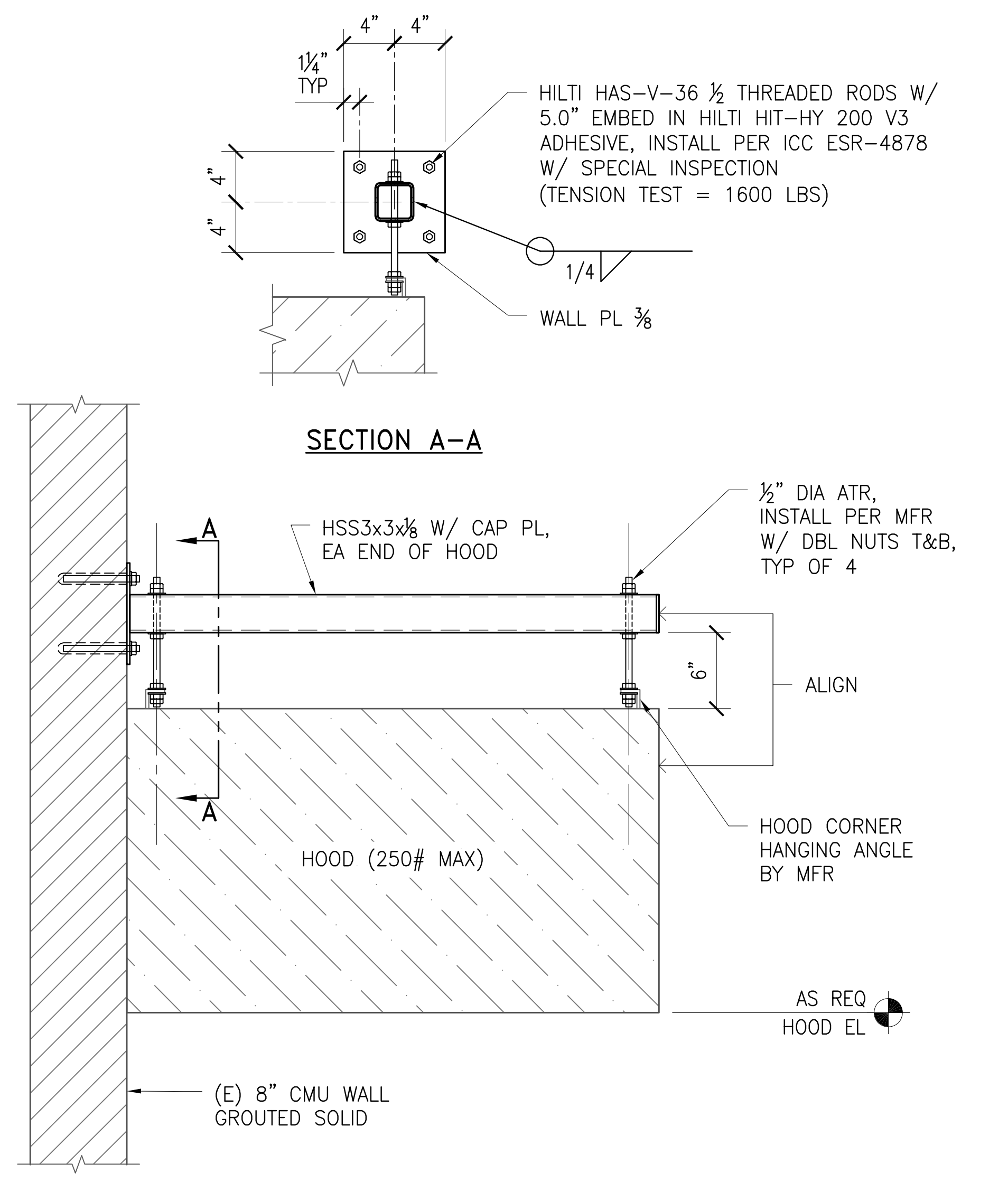
A LOW ROOF & MEZZANINE FRAMING PLAN

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

PROJECT NORTH

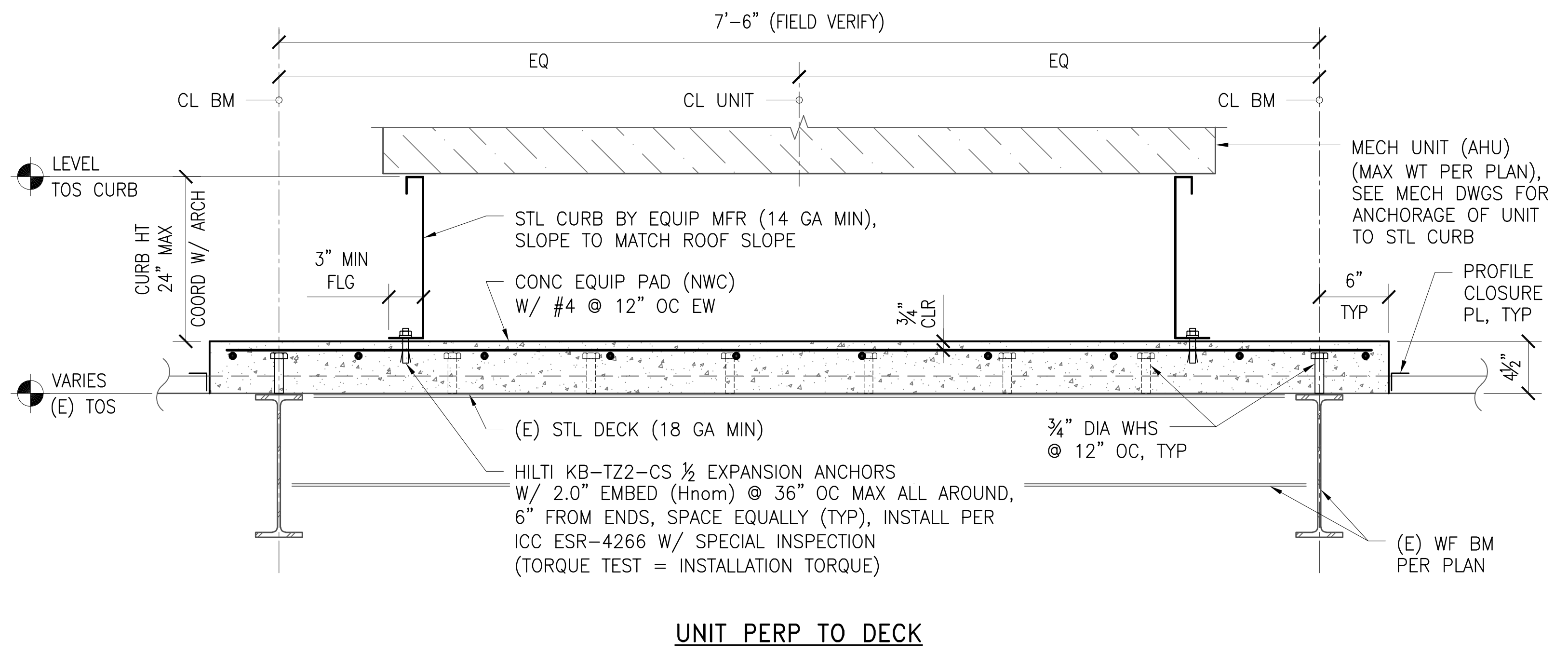
ROOF FRAMING NOTES

1. SEE S0 SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
2. DIMS ARE TO FACE OF MASONRY/CONCRETE/STUD OR CENTERLINE OF COLUMNS/BEAMS. UNO.
3. FRAMING PLAN INDICATES ONLY EQUIP WEIGHING MORE THAN 100 LBS. SEE MEP DWGS FOR ALL OTHER EQUIP. NOTIFY ENGINEER OF ANY EQUIP WEIGHING MORE THAN 100 LBS NOT INDICATED OR ANY EQUIP EXCEEDING MAXIMUM WEIGHT SHOWN.
4. BEAM LOCATIONS SUPPORTING MECH EQUIP SHALL BE OBTAINED & COORDINATED W/ EQUIP MFR.
5. SEE ARCH & CONSULTANT DWGS FOR ROOF DECK OPENINGS NOT SHOWN. REUSE EXISTING OPENINGS WHENEVER POSSIBLE.
6. PROVIDE REINFORCING/FRAMING AROUND NEW ROOF DECK OPENINGS PER TYP DETAILS. SAWCUT OR CORE DRILL CLEAN HOLES W/ NO OVERCUTTING.
7. INFILL (E) ROOF DECK OPENINGS NO LONGER IN USE PER TYP DETAILS.



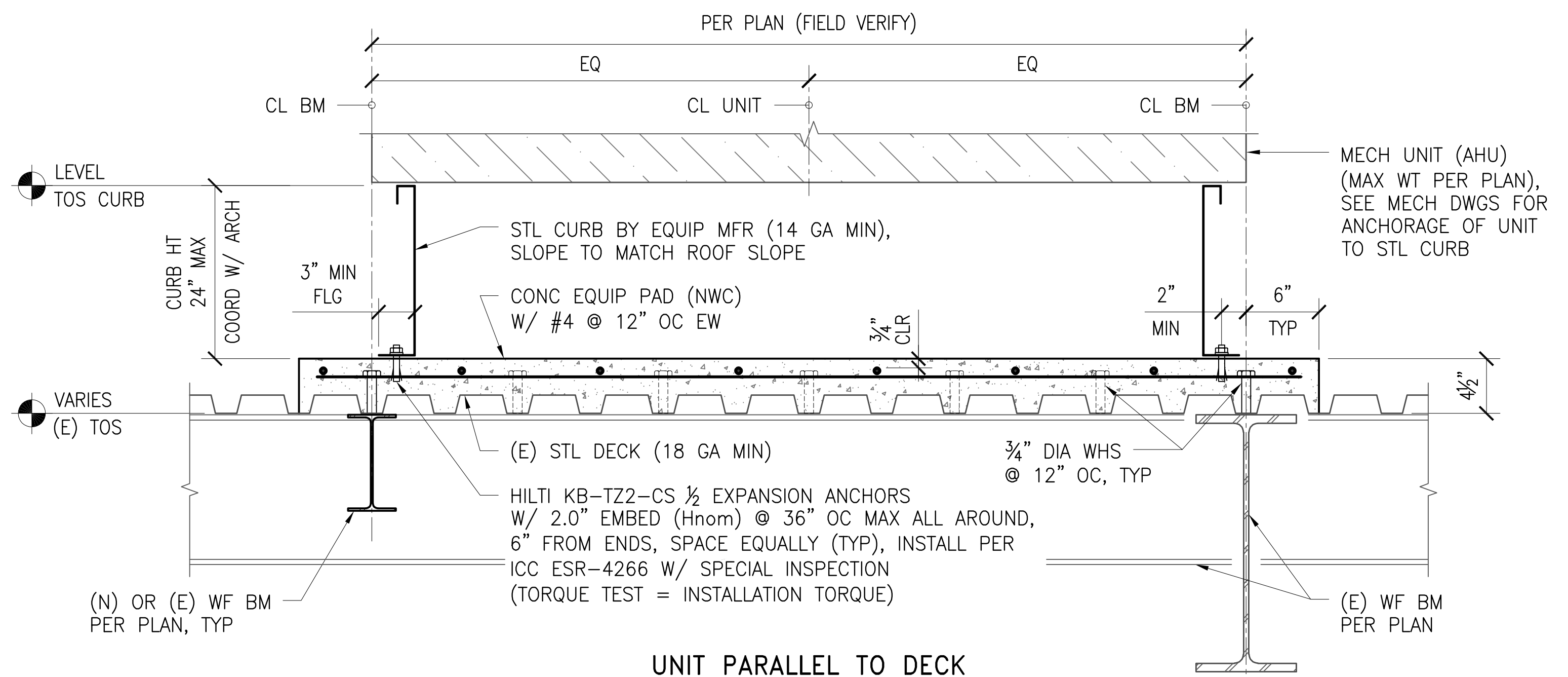
16 WALL-HUNG HOOD ATTACHMENT

SCALE: 1" = 1'-0"



8 HIGH ROOF MECH UNIT (AHU) ON CONC PAD

SCALE: 1" = 1'-0"



4 LOW ROOF MECH UNIT (AHU) ON CONC PAD

SCALE: 1" = 1'-0"

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VERA LYNCH
S5259
Exp 6/30/26
STRUCTURAL

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

COR
24-014

LOW ROOF & MEZZANINE FRAMING PLAN
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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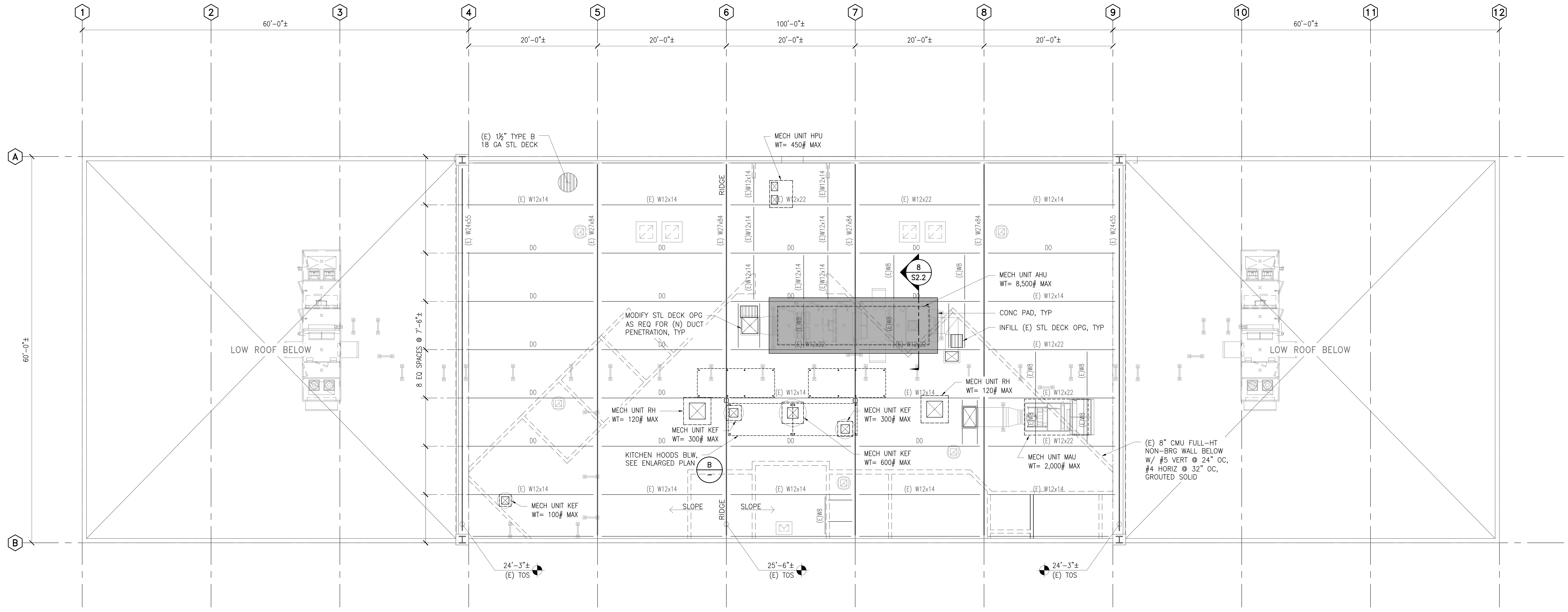


A HIGH ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

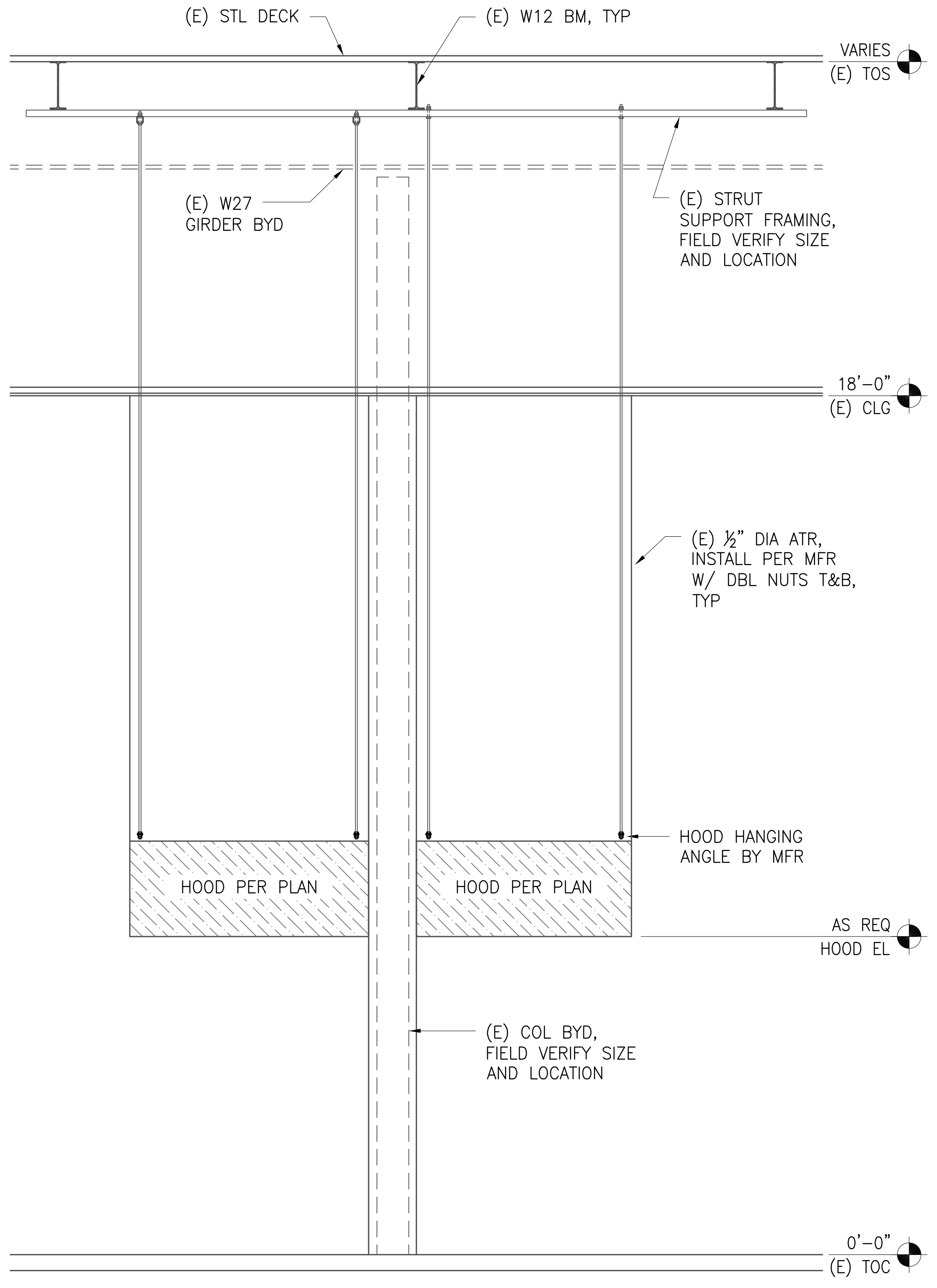
PROJECT NORTH

ROOF FRAMING NOTES

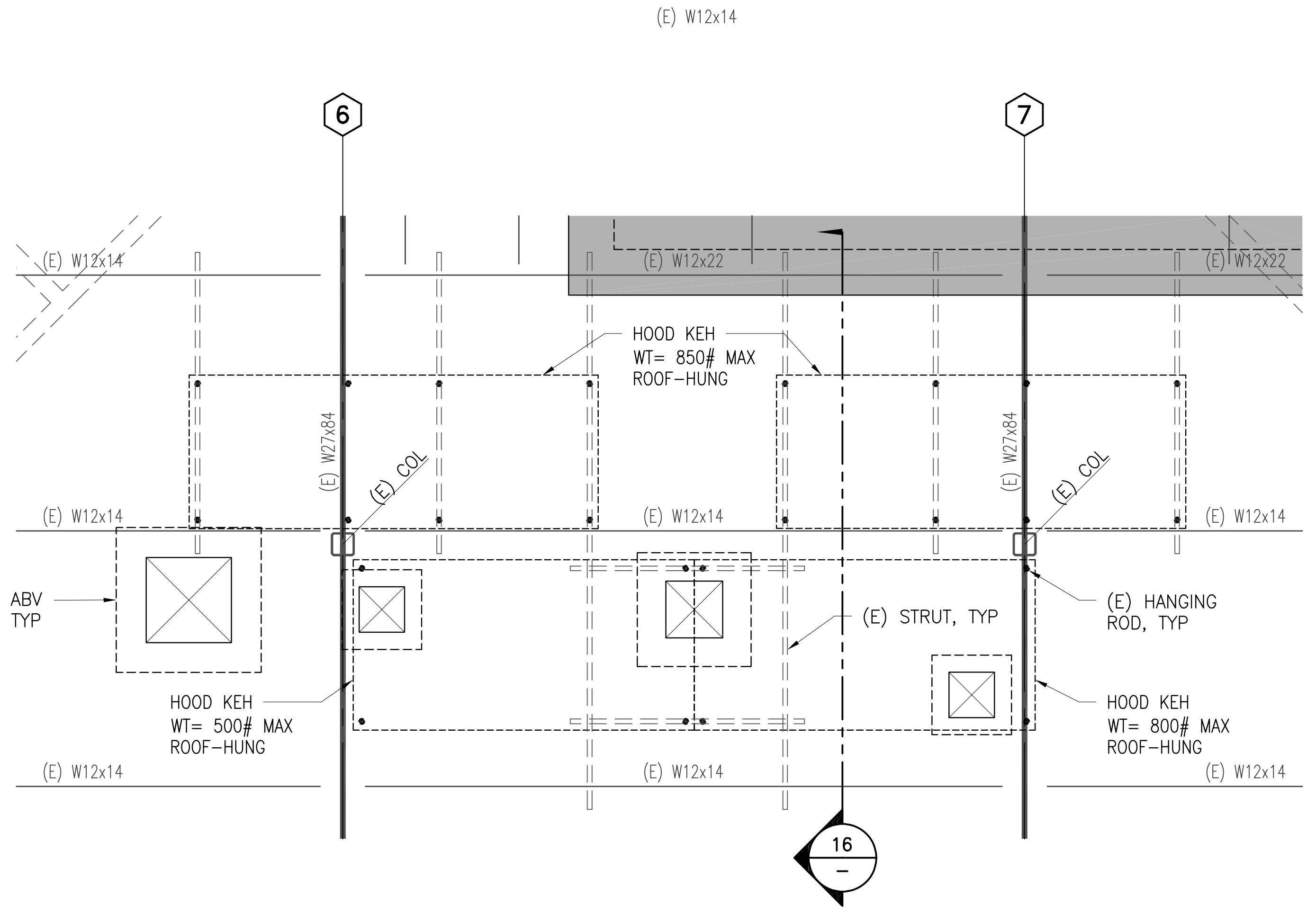
1. SEE S0 AND S1 SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
2. DIMS ARE TO FACE OF MASONRY/CONCRETE/STUD OR CENTERLINE OF COLUMNS/BEAMS. UNO.
3. FRAMING PLAN INDICATES ONLY EQUIP WEIGHING MORE THAN 100 LBS. SEE MEP DWGS FOR ALL OTHER EQUIP. NOTIFY ENGINEER OF ANY EQUIP WEIGHING MORE THAN 100 LBS NOT INDICATED OR ANY EQUIP EXCEEDING MAXIMUM WEIGHT SHOWN.
4. BEAM LOCATIONS SUPPORTING MECH EQUIP SHALL BE OBTAINED & COORDINATED W/ EQUIP MFR.
5. SEE ARCH & CONSULTANT DWGS FOR ROOF DECK OPENINGS NOT SHOWN. REUSE EXISTING OPENINGS WHENEVER POSSIBLE.
6. PROVIDE REINFORCING/FRAMING AROUND NEW ROOF DECK OPENINGS PER TYP DETAILS. SAWCUT OR CORE DRILL CLEAN HOLES W/ NO OVERCUTTING.
7. INFILL (E) ROOF DECK OPENINGS NO LONGER IN USE PER TYP DETAILS.

KITCHEN HOODS

1. INSTALLATION OF NEW HOODS SHALL REUSE SUPPORT FRAMING AND BRACING OF EXISTING HOODS WHEN FEASIBLE AND ACCEPTABLE TO THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL SUBMIT DRAWINGS INDICATING THE EXISTING SUPPORTS, BRACING, AND ATTACHMENTS FOR REVIEW AND APPROVAL BY ARCHITECT/STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION.
2. STRUCTURAL ENGINEER SHALL VERIFY FIELD CONDITIONS AND ADEQUACY OF EXISTING SUPPORT FRAMING FOR NEW HOODS AFTER THE REMOVAL OF EXISTING HOODS/EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER TO SCHEDULE A SITE VISIT WHEN DEMO IS COMPLETE AND EXISTING FRAMING IS EXPOSED AND ACCESSIBLE TO THE ENGINEER.



16 SECTION - ROOF-HUNG HOODS
S2.3
SCALE: 3/8" = 1'-0"



B ENLARGED PLAN AT KITCHEN HOODS
SCALE: 1/4" = 1'-0"

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VERA LYNCH
S5259
Exp 6/30/26

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

COR
24-014

HIGH ROOF FRAMING PLAN
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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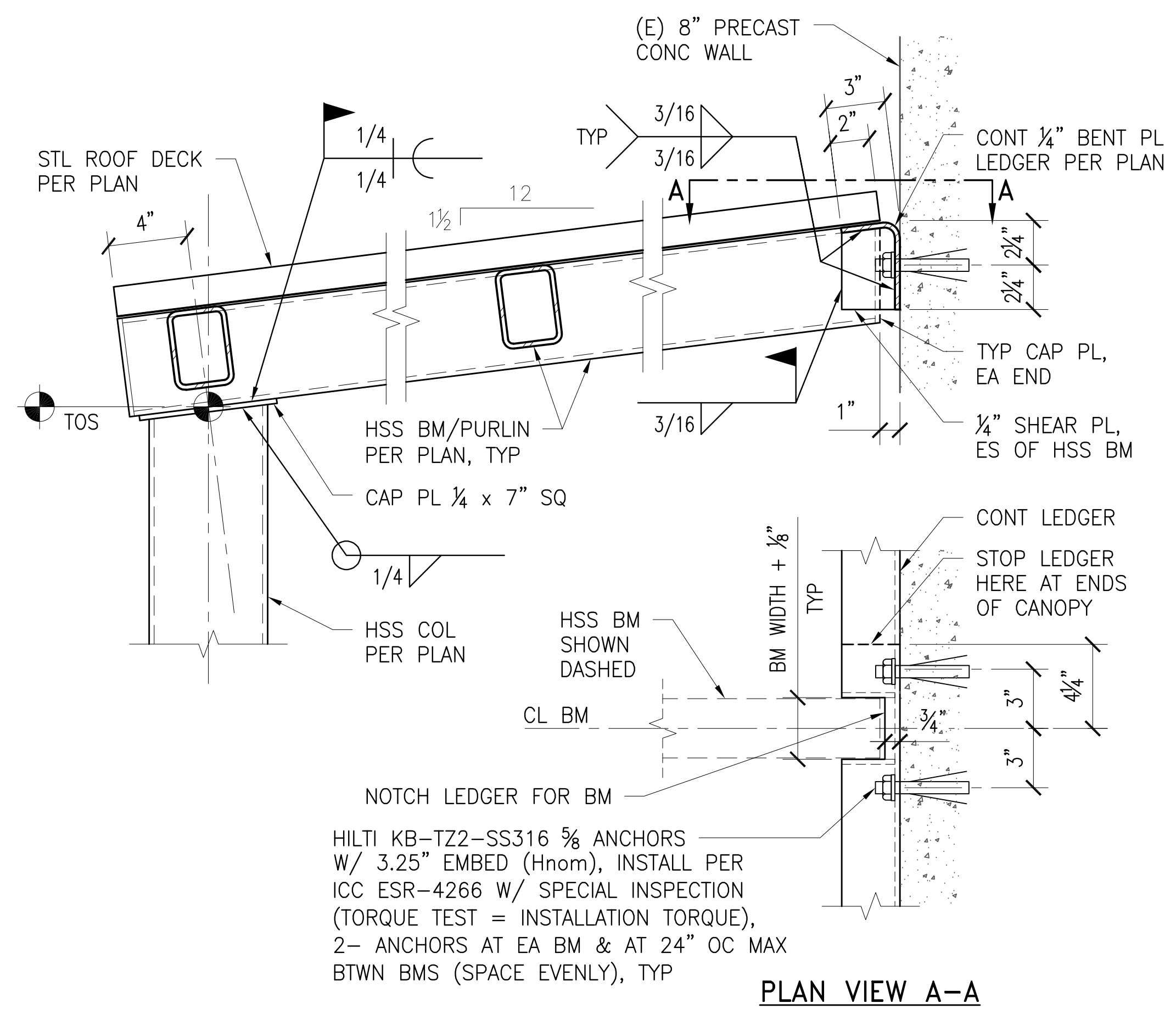
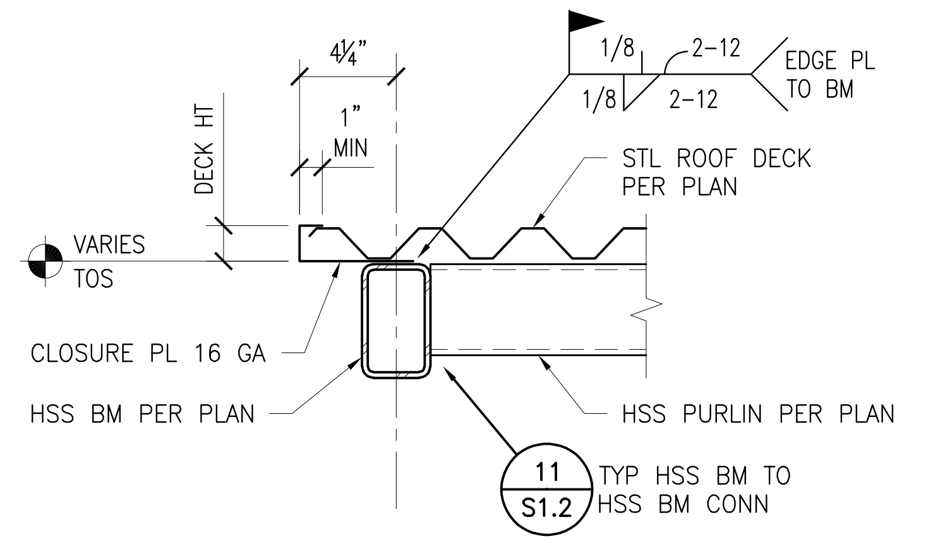
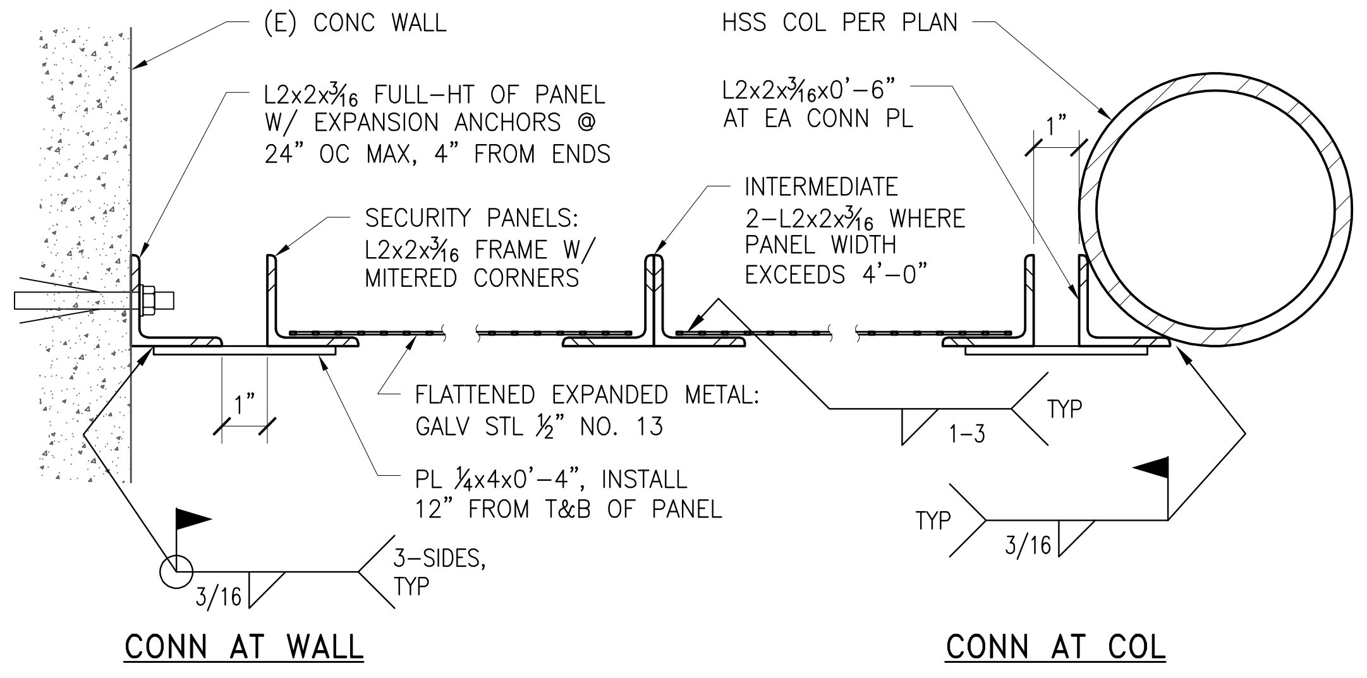

(E) 8" PRECAST CONC WALL
STL ROOF DECK PER PLAN
4"
1/4
1/4
TYP
3/16
3/16
3"
2"
12
1½
A
A
CONT ¼" BENT PL LEDGER PER PLAN
2¼"
2¼"
TOS
HSS BM/PURLIN PER PLAN, TYP
TYP CAP PL, EA END
3/16
1"
¼" SHEAR PL, ES OF HSS BM
CAP PL ¼ x 7" SQ
1/4
HSS COL PER PLAN
CONT LEDGER
STOP LEDGER HERE AT ENDS OF CANOPY
BM WIDTH + ⅛"
TYP
HSS BM SHOWN DASHED
CL BM
¾"
3"
3"
4¼"
NOTCH LEDGER FOR BM
HILTI KB-TZ2-SS316 ⅝ ANCHORS W/ 3.25" EMBED (Hnom), INSTALL PER ICC ESR-4266 W/ SPECIAL INSPECTION (TORQUE TEST = INSTALLATION TORQUE), 2- ANCHORS AT EA BM & AT 24" OC MAX BTWN BMS (SPACE EVENLY), TYP
PLAN VIEW A-A

13 — CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"

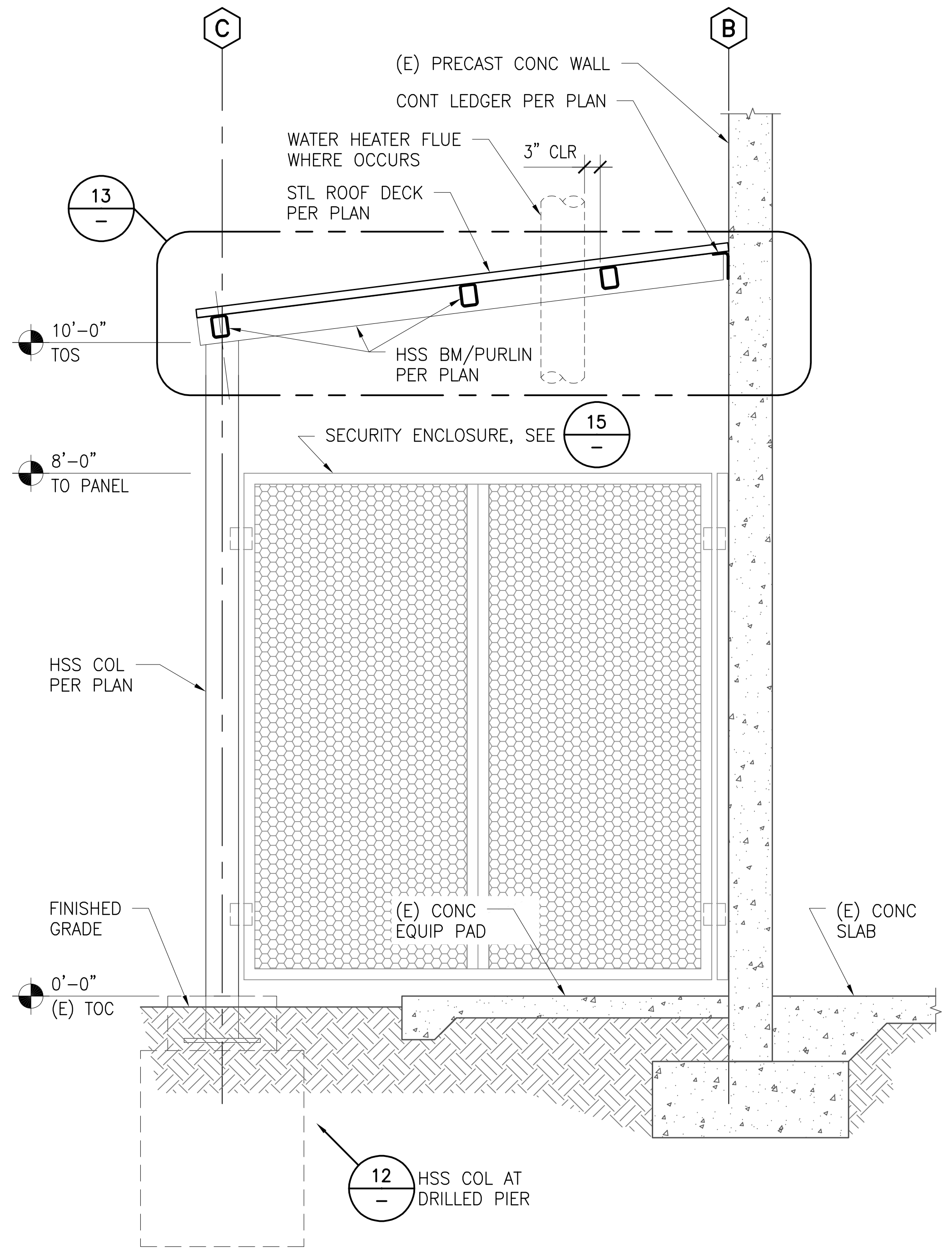


14 — CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"

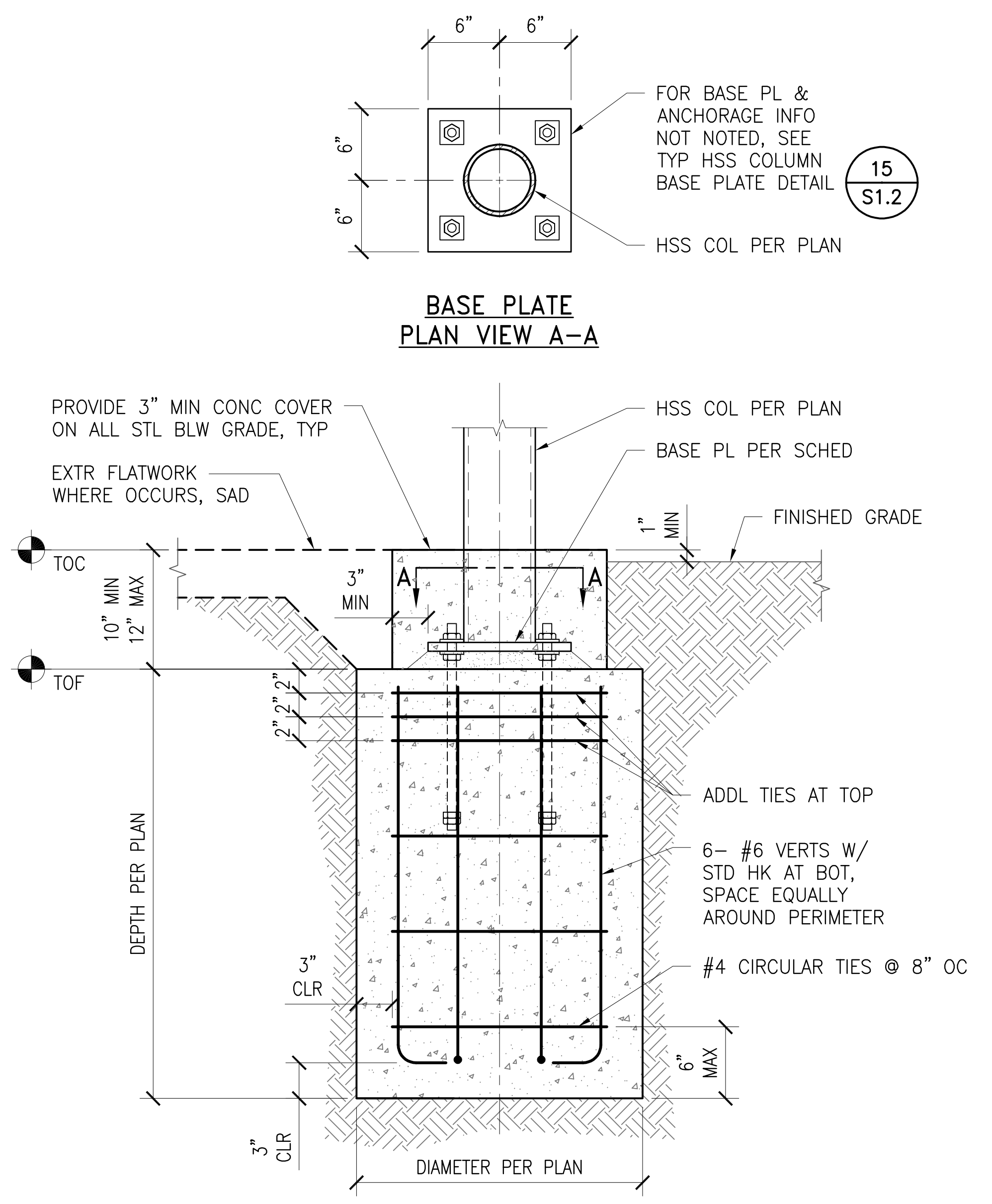

(E) CONC WALL
L2x2x3/16 FULL-HT OF PANEL W/ EXPANSION ANCHORS @ 24" OC MAX, 4" FROM ENDS
SECURITY PANELS: L2x2x3/16 FRAME W/ MITERED CORNERS
INTERMEDIATE 2-L2x2x3/16 WHERE PANEL WIDTH EXCEEDS 4'-0"
HSS COL PER PLAN
L2x2x3/16x0'-6" AT EA CONN PL
1"
1"
FLATTENED EXPANDED METAL: GALV STL ½" NO. 13
PL ¼x4x0'-4", INSTALL 12" FROM T&B OF PANEL
1-3
TYP
TYP
3/16
3/16
3-SIDES, TYP
CONN AT WALL
CONN AT COL

NOTES:
1. EXTERIOR EXPOSED STEEL SHALL BE HOT-DIP GALVANIZED.
2. EXPANSION ANCHORS = HILTI KB-TZ2 ⅜ SS316 W/ 2.5" EMBED (Hnom), INSTALL PER ICC ESR-4266 W/ SPECIAL INSPECTION (TORQUE TEST = INSTALLATION TORQUE).

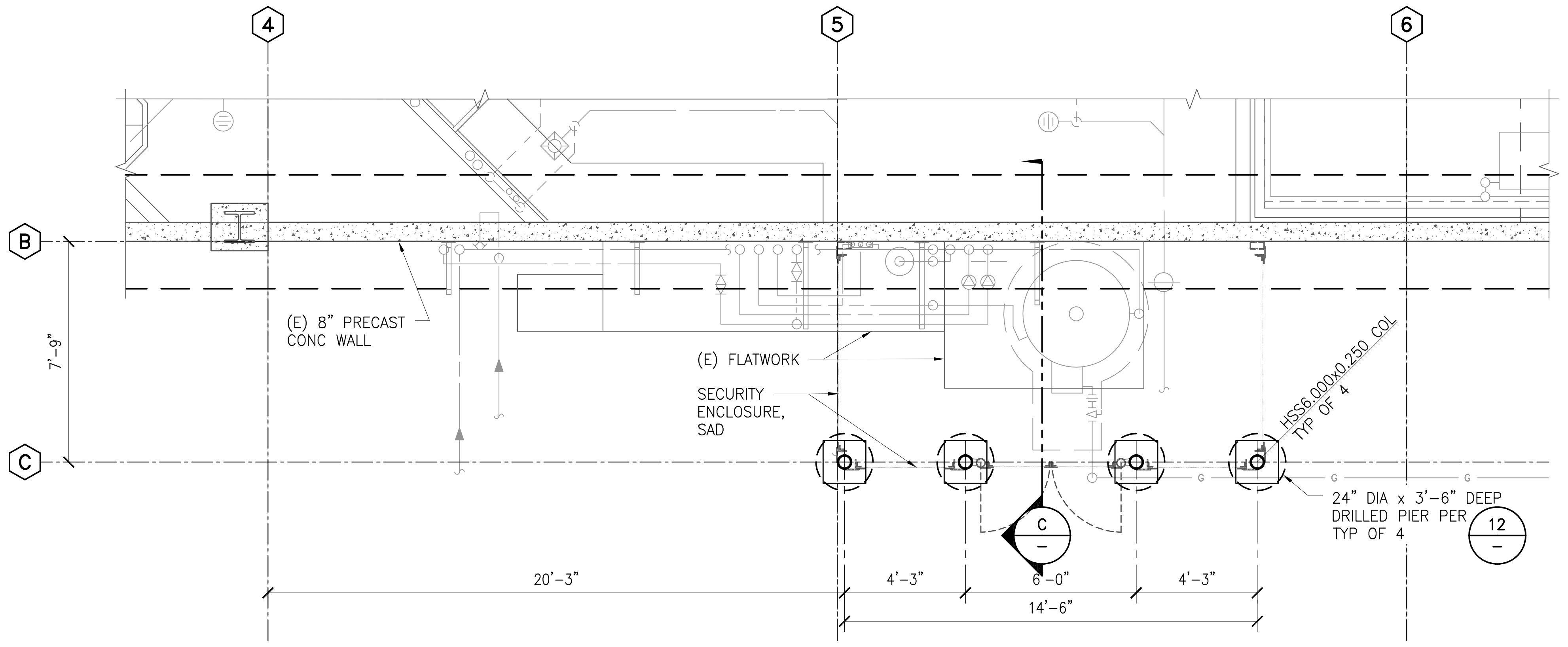
15 — SECURITY ENCLOSURE DETAIL
SCALE: 3" = 1'-0"



C — SECTION - YARD CANOPY
SCALE: 1/2" = 1'-0"



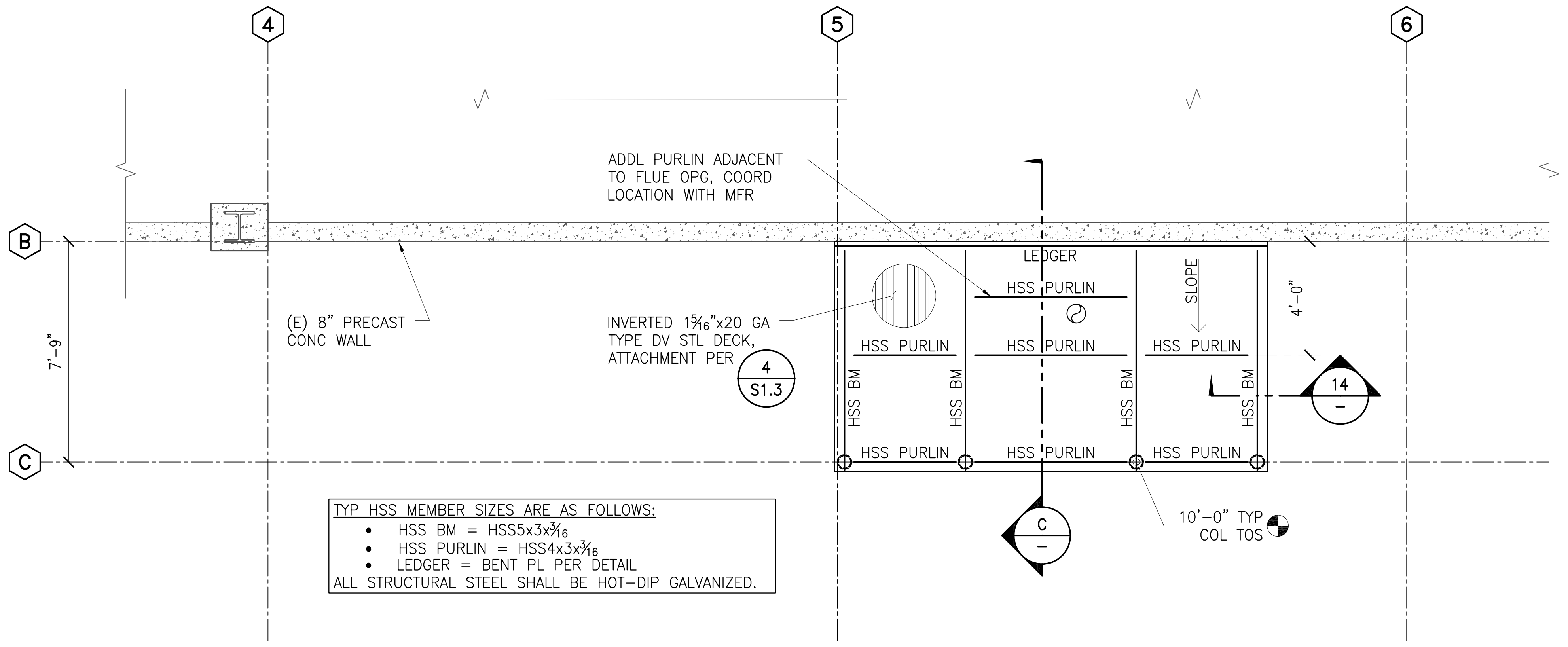
12 — DRILLED PIER DETAIL
SCALE: 1" = 1'-0"



A FOUNDATION PLAN - YARD CANOPY
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

1. SEE S0 & S1 SHEETS FOR GENERAL NOTES & TYPICAL DETAILS.
2. DIMS ARE TO CENTERLINE OF COLUMNS, TYP UNO.
3. VERIFY DIMENSIONS SHOWN W/ ARCH DWGS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS ARE FOUND.
4. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR COMPACTED ENGINEERED FILL.
5. FULL EXTENT OF EXTR CONCRETE FLATWORK IS NOT SHOWN, SEE ARCH/MEP DWGS. PROVIDE THICKENED SLAB EDGE AT YARD FLATWORK PERIMETER PER TYP DETAIL.



TYP HSS MEMBER SIZES ARE AS FOLLOWS:
- HSS BM = HSS5x3x3/16
- HSS PURLIN = HSS4x3x3/16
- LEDGER = BENT PL PER DETAIL

ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED.

B ROOF FRAMING PLAN - YARD CANOPY
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

1. SEE S0 & S1 SHEETS FOR GENERAL NOTES & TYPICAL DETAILS.
2. SEE ARCH DWGS FOR EXTERIOR ELEVATIONS.
3. VERIFY DIMENSIONS SHOWN W/ ARCH DWGS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS ARE FOUND.
4. ALL EXPOSED ENDS OF HSS MEMBERS SHALL BE CAPPED PER TYPICAL DETAIL.

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Vera Lynch
S5259
Exp 6/30/26

VERA LYNCH
SENIOR STRUCTURAL ENGINEER

CHRIS RIPPEL
SUPERVISING CIVIL ENGINEER

YARD CANOPY PLANS & DETAILS
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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S2.4
OF # SHEETS V3

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GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR CODES AS ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONSULTANTS AND OWNER SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL WORK PERFORMED AND ALL EQUIPMENT AND MATERIALS FURNISHED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE CDCR REPRESENTATIVE.

6. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR ON PROJECT.

8. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

9. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL NEW HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.

10. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF THE RENOVATION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN THE APPROVED MANNER FOR WHICH THEY ARE DESIGNED.

11. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES AND DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN AUTOCAD FORMAT. CONTRACTOR HAND MARKED REDLINED AS-BUILT DRAWINGS WILL NOT BE ACCEPTED.

12. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.

13. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE CDCR REPRESENTATIVE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK SHALL BE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, CDCR NEEDS ADVANCE NOTICE PER CDCR APPROVE SCHEDULE.

14. THE ARRANGEMENT OF EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND ADDITIONS.

15. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND INSTALLATION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE CDCR REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.

16. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF HIS WORK.

17. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.

18. PLAN CHECK AND INSPECTION FEES SHALL BE PAID BY CDCR. CONTRACTOR SHALL PAY ALL OTHER FEES ACCORDING TO CONTRACT.

19. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.

20. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

21. GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS, AND CONSTRUCTED, SUPPORTED AND INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.

22. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.

23. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT, IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITION(S) OF THE CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.

24. ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.

25. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

24. PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS:

A. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, OR AS DETAILED AND SPECIFIED HEREIN.

B. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER.

C. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

27. CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD AND CDCR REPRESENTATIVE.

28. ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.

29. ALL CONDUIT AND WIRE REQUIRED FOR THE NEW CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CDCR APPROVED CONTROLS CONTRACTOR.

30. ALL DUCTWORK AND PIPING INSULATION SHALL MEET FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM E-84, NFPA 255 AND UL 723 AND SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.

31. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ROUTING OF ALL DUCTWORK AND PIPING AND SUBMIT DETAILED, CLEARLY LEGIBLE, FULL SIZE (MINIMUM 30"x42") DUCT AND PIPING SHOP DRAWINGS IN AUTOCAD FORMAT FOR APPROVAL FROM THE ENGINEER PRIOR TO FABRICATION, CONSTRUCTION AND INSTALLATION OF DUCTWORK AND PIPING.

32. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF COMPONENTS AT LEAST TWO WEEKS PRIOR TO INSTALLATION.

33. CDCR REPRESENTATIVE SHALL INSPECT AND APPROVE OF ALL WORK BEFORE COVERING WITH INSULATION OR INSTALLATION WITHIN CEILING SPACE.

34. APPROVAL OR DISAPPROVAL BY THE INSPECTOR OF RECORD DOES MEAN APPROVAL OR FAILURE TO COMPLY WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS NOT CLEAR OR IS AMBIGUOUS SHALL BE REFERRED TO THE CONSULTANTS AND OWNER FOR INTERPRETATION OR CLARIFICATION.

35. CONTRACTOR SHALL USE ALL NECESSARY APPROVED MEANS TO PROTECT HIS PORTION OF THE WORK BEFORE, DURING, AND AFTER INSTALLATION, UNTIL ACCEPTED, AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF OTHER TRADES IN A LIKE MANNER. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL MAKE ALL REQUIRED REPAIRS AND REPLACEMENTS TO THE SATISFACTION OF THE CONSULTANTS AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

36. NEITHER THE ARCHITECT OR OWNER NOR CONSULTANTS OF THE ARCHITECT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL SUCH MATTERS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

37. A MINIMUM OF 36" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT PROTECTION DEVICES, AND ELECTRICAL CONTROL COMPONENTS.

38. CONTRACTOR SHALL OBTAIN AND FOLLOW ALL CDCR REQUIREMENTS, GUIDELINES, RULES, AND PROCEDURES FOR CONSTRUCTION. PROVIDE INSURANCE IN ACCORDANCE WITH CDCR REQUIREMENTS.

39. DEMOLITION OF ANY EXISTING AC UNITS, DUCTWORK, AND PIPING SHALL BE COORDINATED WITH CDCR FACILITIES AND OPERATIONS. CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE SHUT-DOWN OF EXISTING UNITS.

40. EXISTING SURFACES AND AREAS NOT INCLUDED IN THE WORK AREA SHALL BE PROTECTED FROM DAMAGE BY APPROVED MEANS. IF DAMAGE OCCURS, THE DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO SATISFACTION OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

41. REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS PROJECT AND LEAVE THE PREMISES CLEAN AND ORDERLY UPON COMPLETION OF WORK.

42. UPON COMPLETION OF PIPING, BUT PRIOR TO APPLICATION OF INSULATION, THE CONTRACTOR SHALL TEST THE PIPING SYSTEMS FOR LEAKS. EQUIPMENT WHICH MAY BE DAMAGED BY THE SPECIFIED TEST CONDITIONS SHALL BE ISOLATED.

43. IDENTIFY ALL PIPES WITH MATERIAL CARRIED AND DIRECTION OF FLOW. CONFORM TO ANSI A13.1.

44. ON INSULATED PIPING: ALL VALVES HANDLES, AIR VENTS AND PRESSURE/TEMPERATURE READOUT PORTS TO BE PROVIDED WITH 2" EXTENSION TO CLEAR PIPING INSULATION.

45. CDCR NEED ADVANCE NOTICE PER CDCR APPROVE SCHEDULE FOR THE SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM.

46. INDEPENDENT BALANCING AND TESTING CONTRACTOR SHALL PROVIDE WRITTEN WATER AND AIR BALANCE REPORT FOR ALL HVAC EQUIPMENT INCLUDED IN THIS PROJECT.

47. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE ALL WORK SCHEDULE WITH CDCR REPRESENTATIVE. SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM SHALL BE SCHEDULED FOR WEEKENDS OR AFTER BUSINESS HOURS. THE CONTRACTOR SHALL SUBMIT TO CDCR REPRESENTATIVE A PLAN, TWO-WEEKS IN ADVANCE, IDENTIFYING SERVICES TO BE DISRUPTED, DATES, TIMES AND DURATION OF SERVICES SHUTDOWN.

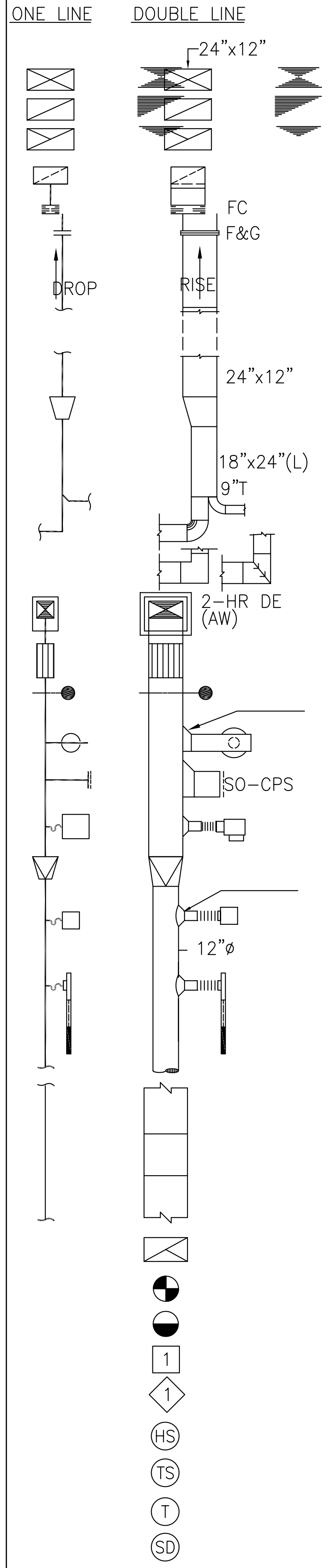
48. SHUT-DOWN ALL AIR HANDLING UNITS PRIOR TO CONSTRUCTION COMMENCEMENT. ALL OPEN ENDS OF INSTALLED SUPPLY, RETURN, EXHAUST DUCTWORK SHALL BE SEALED BY CONTRACTOR WITH PLASTIC MATERIAL TO PREVENT CONTAMINATION, UNTIL START-UP OR TESTING/OPERATION OF THE SYSTEM. CDCR NEEDS ADVANCE NOTICE OF SHUTDOWN PER CDCR APPROVE SCHEDULE.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BTU/HR.	BRITISH THERMAL UNIT PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFSD	COMBINATION FIRE/SMOKE DAMPER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT
FC	FAN COIL UNIT
FPI	FINS PER INCH
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FS	FIRE SPRINKLER
FT	FEET
GPM	GALLONS PER MINUTE
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
HTS	HIGH TEMPERATURE WATER SUPPLY
HTR	HIGH TEMPERATURE WATER RETURN
HOA	HAND/OFF/AUTO SWITCH
HP	HORSEPOWER
HR	HOUR
ICW	INDUSTRIAL COLD WATER
IN	INCHES
IN. W.C.	INCHES OF WATER COLUMN
KW	KILOWATT
L	LENGTH
(L)	LINER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU/HR X 1,000
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
OSA	OUTSIDE AIR
dP	DIFFERENTIAL PRESSURE
PH	PHASE
QTY	QUANTITY
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SENS	SENSIBLE
SF	SUPPLY FAN
SR	SUPPLY REGISTER
SQFT.	SQUARE FEET
TI	TEMPERATURE INDICATOR
TT	TEMPERATURE TRANSDUCER
TYP	TYPICAL
TSP	TOTAL STATIC PRESSURE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VP	VELOCITY PRESSURE
WB	WET BULB
"W.C.	INCHES WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT

HVAC SYMBOLS

ONE LINE DOUBLE LINE



DESCRIPTION

DUCT SIZE - FIRST DIMENSION IS PARALLEL TO NOTE
SUPPLY/DISCHARGE AIR DUCT FACING VIEWER
RETURN/INTAKE AIR DUCT FACING VIEWER
OUTSIDE AIR DUCT FACING VIEWER
DUCT FACING AWAY FROM VIEWER
FLEXIBLE CONNECTION
FLANGED & GASKETED CONNECTION
OFFSET IN DIRECTION OF FLOW
DUCT CONTINUES
DUCT NOT SHOWN FOR CLARITY OF EQUIPMENT BELOW
DUCT SIZE - FIRST DIMENSION FACES VIEWER
SIZE TRANSITION
ACOUSTICALLY LINED DUCT - SIZE IS INTERNAL (SHEET METAL SIZE IS LARGER THAN SHOWN)
THROAT WIDTH
ROUND ELBOW
SHORT RADIUS ROUND ELBOW W/ SPLITTER VANES
2-HOUR DUCT ENCLOSURE
SOUND ATTENUATOR
DAMPER
PRESSURE TAP
DIFFUSER OR GRILLE - HARD CONNECTED
SCREENED OPENING IN CEILING PLENUM SPACE
AIR TERMINAL UNIT - SIZE & TYPE SHOWN
RECTANGULAR TO ROUND TRANSITION
CONICAL TAP-IN
DIFFUSER OR GRILLE - FLEXIBLY CONNECTED
ROUND DUCT DIAMETER
LINEAR OR AIR BAR SUPPLY
LINEAR OR AIR BAR RETURN
AIR BAR BLANK-OFF
ROUND DUCT CONTINUES
EXISTING DUCTWORK TO BE REMOVED
EXISTING DUCT TO REMAIN
NEW DUCTWORK
EXHAUST DUCT
POINT OF CONNECTION
POINT OF DISCONNECTION
NEW WORK KEYNOTE
DEMOLITION KEYNOTE
HUMIDITY SENSOR
THERMOSTAT SENSOR
THERMOSTAT
DUCT SMOKE DETECTOR

CODE COMPLIANCE NOTES

1. KITCHEN EQUIPMENT UNDER THE HOODS SHOULD BE INSIDE EACH HOOD (AREA) PARAMETER NFPA 96: 4.3.4 AND CMC 508.0, 2022-HOODS.

2. STUDY AND IMPROVE THE FIRE PROTECTION SYSTEM, FIRE SPRINKLER SYSTEM AND FIRE AND SMOKE DETECTORS PER FIRE CODE REQUIREMENT FOR ALL KITCHEN AND BAKERY KITCHENS FOR ALL FACILITIES AT COR: CMC 513.2.2, AND NFPA 13.

3. REMOVE ALL BROKEN KITCHEN EQUIPMENT FROM HOOD KITCHEN AREA AT EACH FACILITY AT COR FOR CDCR SECURITY/SAFETY CONCERNS.

4. BEFORE NEW SYSTEM INSTALLATION, PROVIDE CLEANING REQUIREMENTS FOR EACH HOOD SYSTEM AT EACH KITCHEN FACILITY AT COR AND ALL RECORDS SHALL STATE THE EXTENT, TIME, AND DATE OF CLEANING. SUCH RECORDS SHALL BE MAINTAINED ON THE PREMISES: CMC 514.3, CFC 904.1, CCR 19 DIV.1 904.(a)(2).

5. PROVIDE/CHECK FOR AN EXHAUST AIR-DUCT SYSTEM AND AIR INTAKE (MAKE-UP AIR) DUCT SYSTEM FOR EACH EXISTING KITCHEN HOOD: CMC 507.0.

6. INSTALL AUTOMATIC GAS SHUTOFF DEVICE FOR KITCHEN EQUIPMENT AND THE MAIN GAS SHUT-OFF DEVICE SHALL REQUIRE A MANUAL RESET: 2022 CFC 904.13.2 AND CMC 513.4 FUEL SHUT-OFF DEVICE.

7. FOR NEW SYSTEMS, THE TEST RECORDS SHALL BE RETAINED FOR A PERIOD BETWEEN THE SEMI-ANNUAL MAINTENANCE & THE INSPECTIONS, SHALL BE RECORDED AND STATE THE EXTENT, TIME, AND DATE OF MAINTENANCE INSPECTIONS. SUCH RECORDS SHALL BE MAINTAINED ON PREMISES: NFPA 17A 8.2.6 AND 8.3.3.6, AND CMC 516.6.

8. TEST EACH NEW FIRE SUPPRESSION SYSTEM FOR ALL KITCHEN HOODS AT EACH FACILITY AT COR IN ORDER TO MAKE SURE EACH NEW FIRE SUPPRESSION SYSTEM IS WORKING UNDER NORMAL OPERATION CONDITIONS: CMC 514.0 AND NFPA 96 12.2.

9. THE AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM (SEE FIRE ALARM SEQUENCE OF OPERATIONS MATRIX ON FIRE ALARM PLANS). ELECTRICAL POWER TO THE FIRE ALARM SYSTEM SHALL ALSO BE CONNECTED TO THE EXISTING STANDBY ELECTRICAL POWER SUPPLY PROVIDED BY AN EXISTING INSTITUTION WIDE EMERGENCY GENERATOR.

10. THE MAIN AUTOMATIC GAS SHUT-OFF DEVICE AND GAS VALVE FOR ALL KITCHEN EQUIPMENT MUST BE VISIBLE PER CMC 513.4 FUEL SHUTOFF SYSTEM AND MANUALLY RESET PER 2022 CMC 513.4.3.

DRAWING LEGEND

NUMBER	SHEET TITLE
M0.1	GENERAL NOTES, SYMBOLS, ABBREVIATIONS & LEGENDS
M0.2	MECHANICAL SCHEDULES
M.03	MECHANICAL SCHEDULES
M.04	MECHANICAL SCHEDULES
M.05	MECHANICAL SCHEDULES
M.06	MECHANICAL SCHEDULES
M1.0	MECHANICAL ENLARGED FLOOR PLAN - DEMOLITION
M1.1	MECHANICAL ENLARGED FLOOR PLAN - DEMOLITION
M1.2	MECHANICAL ENLARGED FLOOR PLAN - DEMOLITION
M1.3	MECHANICAL ENLARGED MEZZANINE PLAN - DEMOLITION
M1.4	MECHANICAL ENLARGED ROOF PLAN - DEMOLITION
M1.5	MECHANICAL ENLARGED ROOF PLAN - DEMOLITION
M1.6	MECHANICAL ENLARGED ROOF PLAN - DEMOLITION
M2.0	MECHANICAL ENLARGED FLOOR PLAN - NEW
M2.1	MECHANICAL ENLARGED FLOOR PLAN - NEW
M2.2	MECHANICAL ENLARGED FLOOR PLAN - NEW
M2.3	MECHANICAL ENLARGED MEZZANINE PLAN - NEW
M2.4	MECHANICAL ENLARGED ROOF PLAN - NEW
M2.5	MECHANICAL ENLARGED ROOF PLAN - NEW
M2.6	MECHANICAL ENLARGED ROOF PLAN - NEW
M4.1	MECHANICAL PIPING DIAGRAMS
M5.1	MECHANICAL DETAILS
M5.2	MECHANICAL DETAILS
M5.3	MECHANICAL DETAILS
M6.1	MECHANICAL CONTROLS
M6.2	MECHANICAL CONTROLS

DEFERRED DESIGN SUBMITTAL

KITCHEN HOOD FIRE SUPRESSION SYSTEM WET CHEMICAL PER UL300

CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS WITH CALIFORNIA LICENSED PROFESSIONAL ENGINEER STAMP FROM AN APPROVED VENDOR WITH ALL THE REQUIREMENTS FOR A COMPLETE KITCHEN HOOD FIRE SUPPRESSION SYSTEM DESIGN CAPABLE OF PROTECTION ALL HAZARD AREAS ASSOCIATED WITH COOKING EQUIPMENT AND SUPPORTING CALCULATIONS. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF THE SHOP DRAWINGS FROM THE CALIFORNIA STATE FIRE MARSHALL PRIOR TO START OF WORK.

APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022	CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022	CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2021 NATIONAL ELECTRICAL CODE (NEC)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021UNIFORM MECHANICAL CODE (UMC)
2022	CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022	CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2020	NFPA 17A WITH CALIFORNIA AMENDMENTS
2022	NFPA 72 WITH CALIFORNIA AMENDMENTS
2021	NFPA 96 WITH CALIFORNIA AMENDMENTS
	CALIFORNIA CODE OF REGULATIONS - TITLE 19 PUBLIC SAFETY, DIVISION 1, STATE FIRE MARSHAL

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL LEGEND AND NOTES
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\M0.1 MECH LEGEND-NOTES.DWG

REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M0.1
OF # SHEETS V3

AIR HANDLING UNIT (AHU) SCHEDULE

TAG No.	MFR/MODEL	LOCATION	AREA SERVED	SUPPLY AIR FAN									RETURN/EXHAUST AIR FAN									MINIMUM OUTSIDE AIR	MAXIMUM OUTSIDE AIR	ELECTRICAL					
				CFM	TSP IN. W.C.	ESP IN. W.C.	MOTOR INFORMATION						CFM	TSP IN. W.C.	ESP IN. W.C.	MOTOR INFORMATION													
							FAN SIZE	QTY	H.P.	RPM	MOTOR TYPE	MOTOR DRIVE				FAN SIZE	QTY	H.P.	RPM	MOTOR TYPE	MOTOR DRIVE	CFM	CFM	VOLT	PHASE	HERTZ	MCA (Amp)	MOP (Amp)	FLA (Amp)
AHU 1	WILSENERGY/ MODEL	ROOF	DINING 127	10,000	4.3	2.0	15.75 IN.	2	7.5	3047	ECM PREMIUM EFF.	DIRECT	10,000	1.6	1.0	15.75 IN.	2	7.5	2614	ECM PREMIUM EFF.	DIRECT	2,400	10,000	460	3	60	41.3	50.3	39.0
AHU 2	WILSENERGY/ MODEL	ROOF	DINING 138	10,000	4.3	2.0	15.75 IN.	2	7.5	3047	ECM PREMIUM EFF.	DIRECT	10,000	1.6	1.0	15.75 IN.	2	7.5	2614	ECM PREMIUM EFF.	DIRECT	2,400	10,000	460	3	60	41.3	50.3	39.0
AHU 3	WILSENERGY/ MODEL	ROOF	FOOD PREP. 131	9,200	4.4	2.0	19.75 IN.	2	7.5	2108	ECM PREMIUM EFF.	DIRECT	2,800	1.4	1.0	15.75 IN.	1	5	1617	ECM PREMIUM EFF.	DIRECT	2,000	6,400	460	3	60	36.4	47.8	33.5

AIR HANDLING UNIT (AHU) SCHEDULE CONTINUED

TAG No.	HOT WATER COIL															DIRECT EVAPORATIVE COOLING											WEIGHT (LBS)	REMARKS
	TOTAL NUMBER OF COILS	TOTAL HEATING (BTUH)	ROWS	FINS PER INCH	WATER					AIR				CONNECTIONS									WATER CONSUMPTION			△P (IN. W.C.)		
					E.W.T. (°F)	L.W.T. (°F)	△P (FT.W.C.)	GPM	TUBE VEL. FPS	Ent. DB (°F)	Lvg. DB (°F)	△P (IN. W.C.)	COIL FACE VELOCITY (FT/MIN)	COIL-IN (IN)	COIL-OUT (IN)	EDB (°F)	EWB (°F)	ERH (%)	LDB (°F)	LWB (°F)	LRH (%)	EFF. (%)	EVAP. (GPH)	BLEED (GPH)	TOTAL (GPH)			
AHU 1	1	300,000	1	8	180	150	15.0	20	5.5	58	85.5	0.08	500	1.5	1.5	102	71	21	74	71	90	92	34.9	13.4	48.3	0.28	8,500	1 3 4 5 6 7
AHU 2	1	300,000	1	8	180	150	15.0	20	5.5	58	85.5	0.08	500	1.5	1.5	102	71	21	74	71	90	92	34.9	13.4	48.3	0.28	8,500	1 3 4 5 6 7
AHU 3	1	400,000	1	10.5	180	150	12.1	26.5	5.8	40	80	0.09	460	2.0	2.0	102	71	21	74	71	90	92	34.9	13.4	48.3	0.28	7,800	2 3 4 5 6 7

REMARKS:

1. VERTICAL SA DISCHARGE AND RA INLET, SEE PLANS FOR ACCESS DOORS AND COIL CONNECTION LOCATIONS. SEE 1/M0.3 AND 2/M0.3 FOR UNIT CONFIGURATION DIAGRAMS.
2. HORIZONTAL SA DISCHARGE AND RA INLET, SEE PLANS FOR ACCESS DOORS AND COIL CONNECTION LOCATIONS. SEE 3/M0.3 FOR UNIT CONFIGURATION DIAGRAM.
3. PROVIDE SUPPLY AIR SMOKE DETECTOR IN THE SA DISCHARGE OF AHU TO PROVIDE UNIT SHUT-DOWN PER CMC. SMOKE DETECTOR PROVIDED, POWERED, AND WIRED TO FIRE ALARM BY DIVISION 26. SMOKE DETECTOR INSTALLED AND WIRED TO SHUT-DOWN FANS BY DIVISION 23.
4. PROVIDE PIEZOMETER RINGS ON SA AND RA FANS FOR AIRFLOW MEASUREMENT.
5. PROVIDE WITH 18" HIGH STRUCTURAL MOUNTING CURB (SEE ROOF PLANS FOR SLOPES), MERV-13 FILTERS, 120 VAC/1-PH/660HZ ELECTRICAL CIRCUIT W/ DISCONNECT FOR LIGHTS AND GFI RECEPTICAL IN AHU. 120 VAC/1-PH/60 HZ POWER TO AHU BY DIVISION 26.
6. DEDICATED 120 VAC/1-PH/60 HS ELECTRICAL POWER TO EACH AHU HVAC CONTROLLER BY DIVISION 26. SEE M6.1 FOR HVAC CONTROL ARCHITECTURE.
7. SEE 1/M5.1 FOR MOUNTING DETAILS, M4.1, FOR HYDRONIC PIPING DIAGRAM, AND M6.2 FOR HVAC CONTROL DIAGRAMS.

HEAT PUMP UNIT (HPU) SCHEDULE

TAG No.	MFR/MODEL	LOCATION	AREA SERVED	SUPPLY AIR FAN						COOLING PERFORMANCE				HEATING PERFORMANCE			ELECTRIC HEAT						ELECTRICAL					WEIGHT (LBS)	REMARKS
				CFM	ESP IWC	MOTOR INFORMATION				RATED CAPACITY				RATED CAPACITY															
						QTY	HP	RPM	MOTOR DRIVE	TOTAL/SEN (MBH)	EADB/EAWB (°F)	AMBIENT (°F)	EER/IEER	1@47(°F) (MBH)	2@17(°F) (MBH)	COP1/COP2	VOLT	PHASE	HERTZ	MCA (Amp)	MOP (Amp)	SIZE (kW)	VOLT	PHASE	HERTZ	MCA (Amp)	MOP (Amp)		
HPU 1	TRANE 4WCZ6036	ROOF	OFFICE 139 OBSER. 202	1,200	0.5	1	0.5	1339	DIRECT	31.4/29.7	82/65	105	11.0/14.1	31.5	NA	3.3/2.05	460	3	60	15	15	8.0	460	3	60	22	25	425	1 2 3 4 5 6

REMARKS:

1. PROVIDE TRANE PROGRAMMABLE THERMOSTAT WITH DIGITAL DISPLAY AND PROGRAMMABLE TOUCH SCREEN.
2. PROVIDE LOW AMBIENT KIT AND MERV 13 FILTERS.
3. PROVIDE MICRO-METL ECONOMIZER WITH POWER EXHAUST. MODULATING, ULTRA LOW LEAK DAMPERS, BELIMO ZIP CONTROLLER AND ACTUATOR, DRY-BULB SENSOR. POWERED SEPARATELY BY DIVISION 26. P/N: PECC-IMP2SCB-DYDB-4LH, 460VAC, 3PH, 60HZ, 0.5 HP, 1.4 FLA, 1.8 MCA, 10 AMP FUSES INTERNALLY PROVIDED
4. PROVIDE MICRO-METL INSULATED STRUCTURAL KNOCK-DOWN CURB WITH HOLD-DOWN ATTACHEMNTS. FIELD VERIFY ROOF PITCH, ORIENTATION, AND INSULATION THICKNESS.
5. PROVIDE SINGLE POINT POWER ENTRY KIT FOR UNIT AND ELECTRIC HEATER WITH FACTORY NEMA-3R MOUNTED DISCONNECT SWITCH.
6. SEE 2/M5.1 FOR MOUNTING DETAILS AND M6.3 FOR HVAC CONTROL DIAGRAMS.

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24-3165
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CALIFORNIA DEPARTMENT OF
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ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

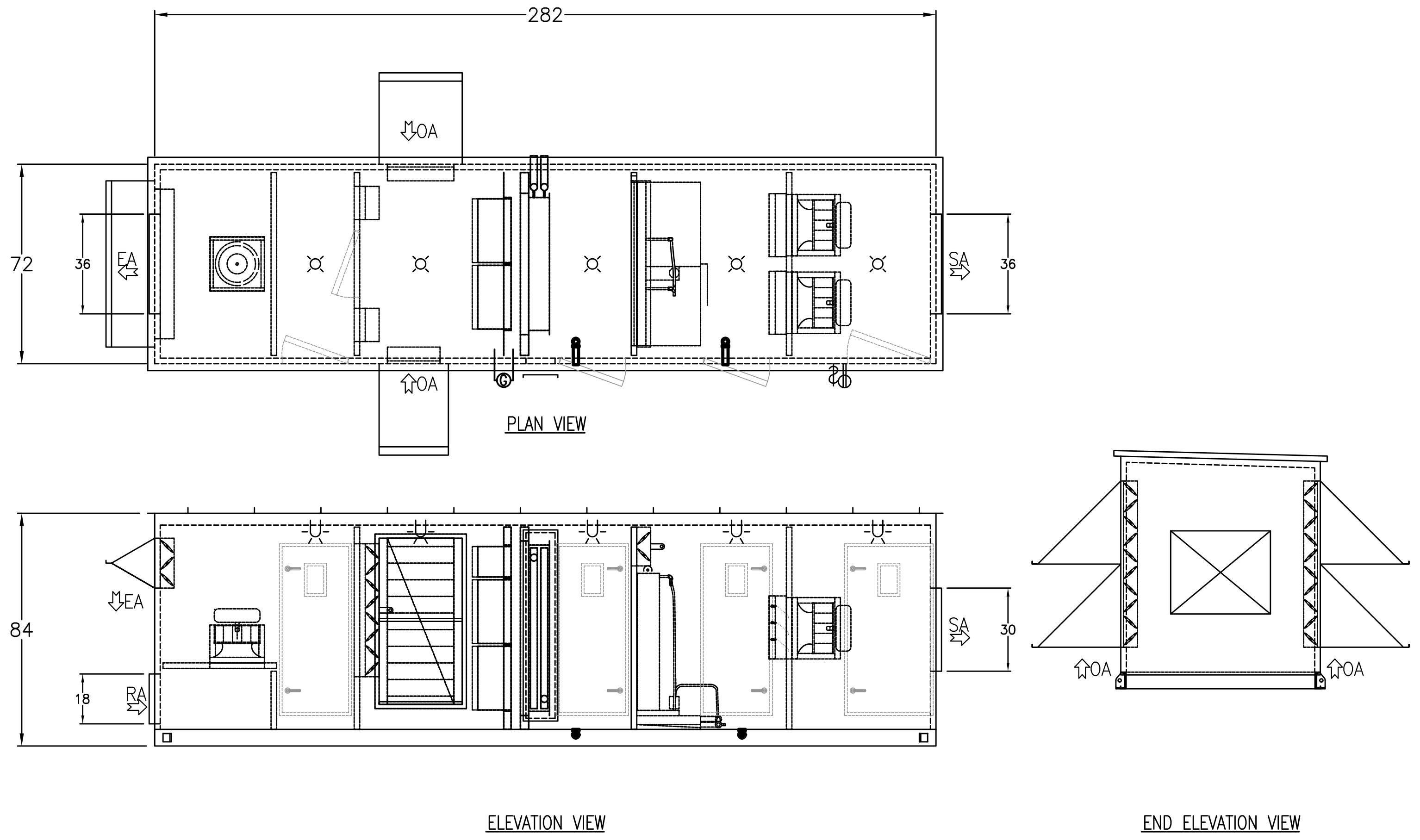
MECHANICAL SCHEDULES
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

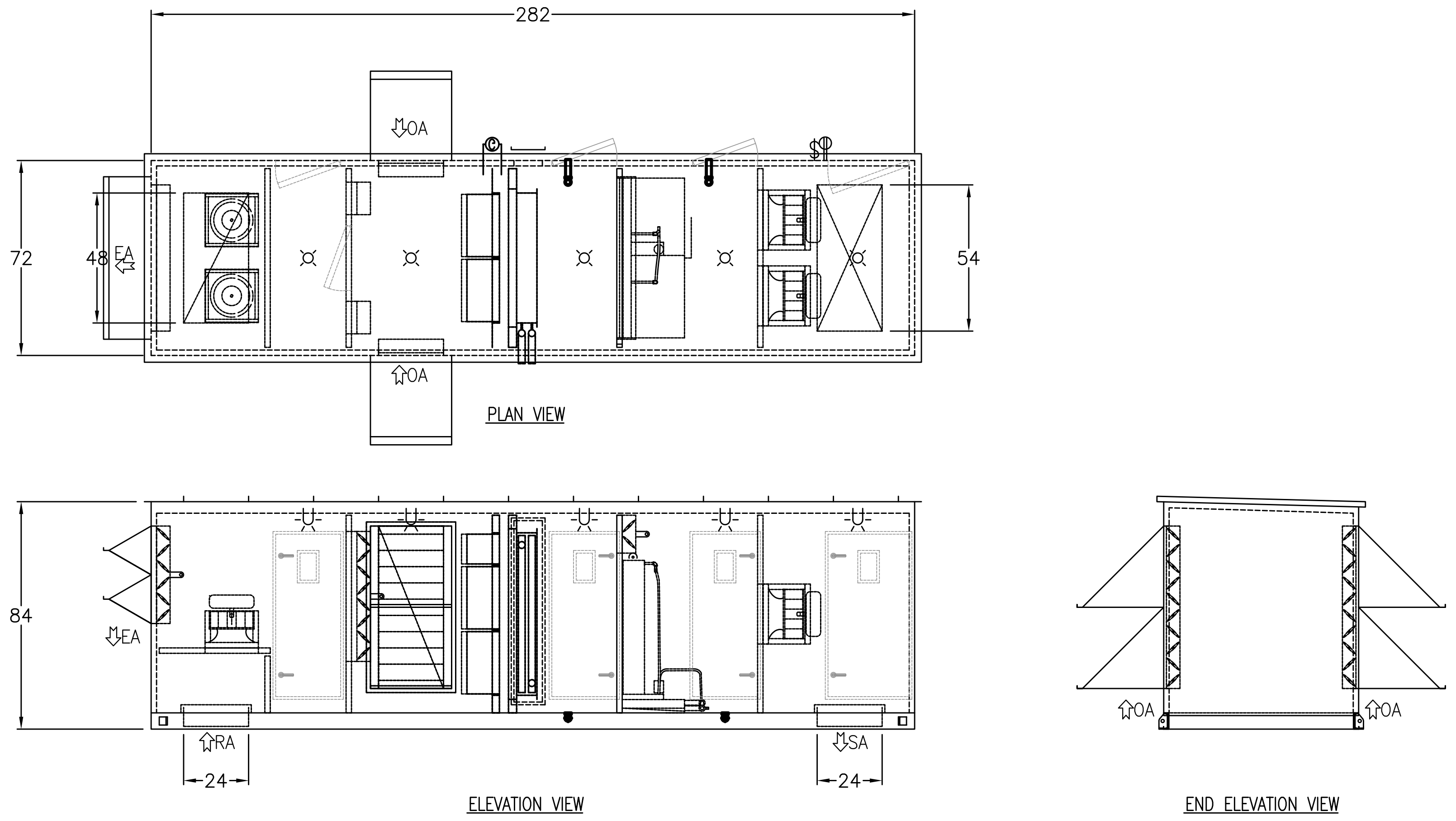
CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\M0.2 MECH SCHD.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

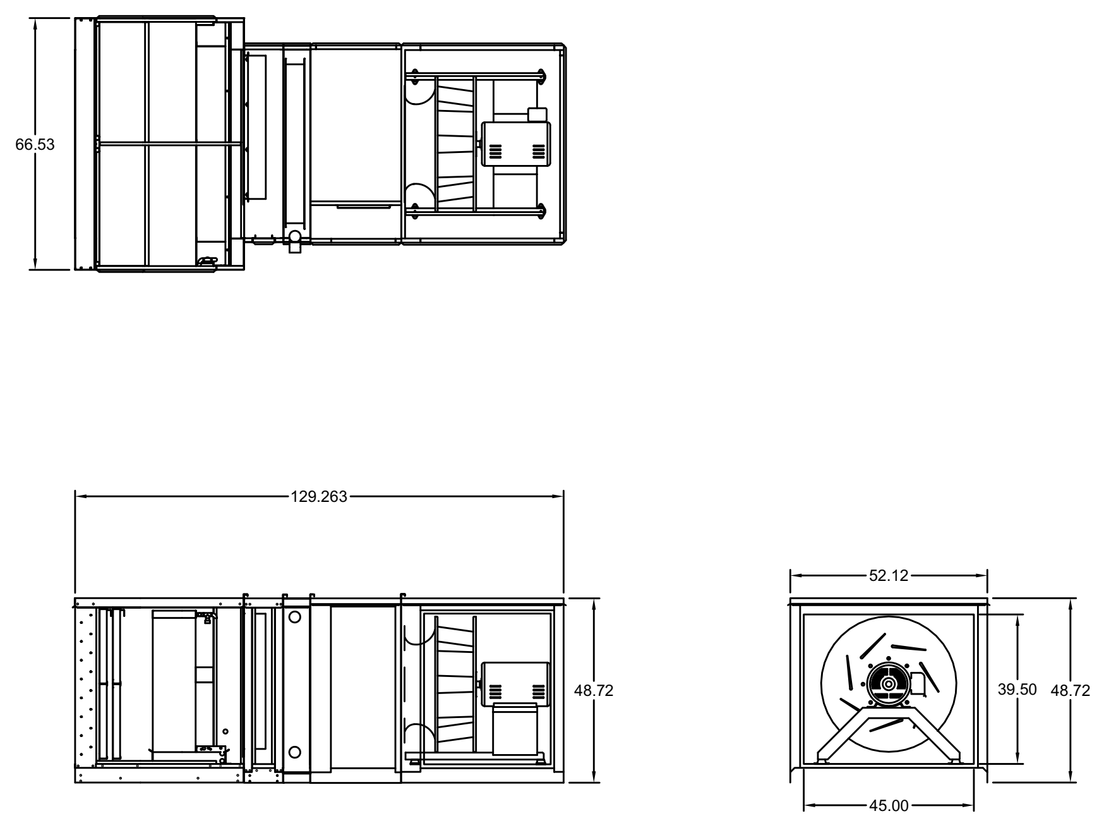
DATE: SEPTEMBER 20, 2024
SHEET NUMBER
M0.2
OF # SHEETS V3



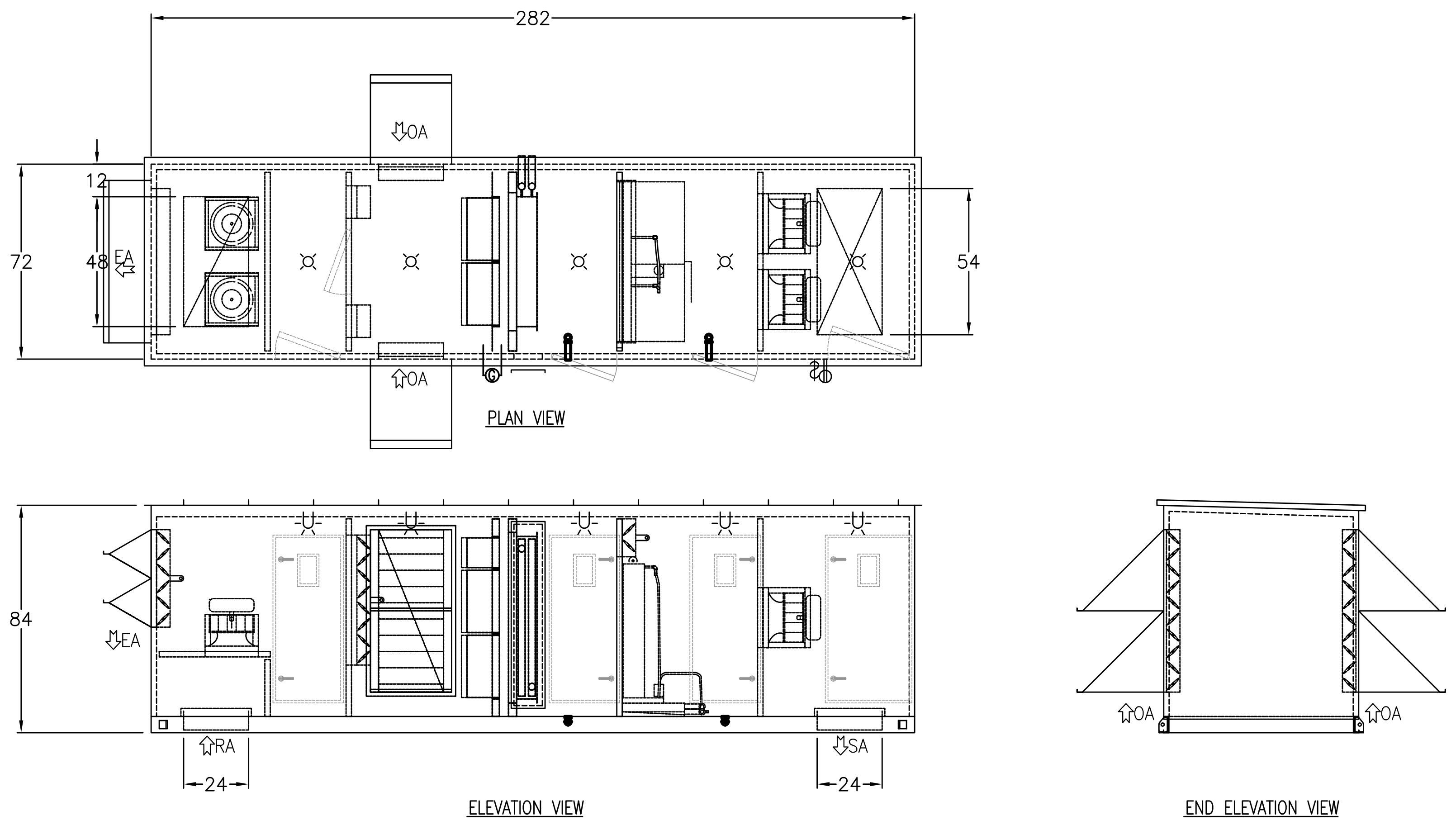
AHU-3 CONFIGURATION NTS 3



AHU-1 CONFIGURATION NTS 1



MAU-1 CONFIGURATION NTS 4



AHU-2 CONFIGURATION NTS 2

GENERAL NOTES

1. OVERALL UNIT DIMENSIONS ARE NOMINAL AND DO NOT ACCOUNT FOR CASING PROTRUSIONS, SECTION GASKETING, DOOR HANDLES, EXTENDED CONNECTIONS, EXTERIOR MOUNTED DEVICES, MANUFACTURING TOLERANCES, ETC. CONTRACTOR TO VERIFY ACCEPTABLE CLEARANCES FOR INSTALLATION OF THIS EQUIPMENT.
2. MIN. SERVICE CLEARANCE REQUIRED BEYOND EXTERIOR OF UNIT FOR PULLING COIL(S) IS COIL FIN LENGTH PLUS APPROXIMATELY 15 INCHES.
3. NOMINAL NEC CLEARANCES REQUIRED ON ALL EXTERIOR MOUNTED ELECTRICAL DEVICES. CONTRACTOR TO VERIFY ACCEPTABLE CLEARANCES FOR INSTALLATION OF THIS EQUIPMENT.
4. SEE AIR HANDLING SCHEDULE FOR OPERATING WEIGHTS.

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MAKE UP UNIT (MAU) SCHEDULE

TAG No.	MFR/MODEL	LOCATION	AREA SERVED	SUPPLY AIR FAN									MINIMUM OUTSIDE AIR	ELECTRICAL				
				CFM	TSP IN. W.C.	ESP IN. W.C.	MOTOR INFORMATION											
							FAN SIZE	QTY	H.P.	RPM	MOTOR TYPE	MOTOR DRIVE	CFM	VOLT	PHASE	HERTZ	MCA (Amp)	MOP (Amp)
MAU 1	GREENHECK/ MSK-P125-H32-D1	ROOF	FOOD PREP 131	7,350	2.0	1.0	25	1	5.0	1,200	PREMIUM EFF.	DIRECT	7,350	460	3	60	10.5	15.0

MAKE UP AIR UNIT (MAU) SCHEDULE CONTINUED

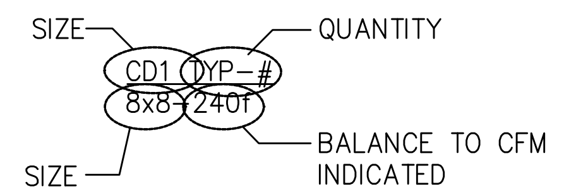
TAG No.	HOT WATER COIL															DIRECT EVAPORATIVE COOLING									WEIGHT (LBS)	REMARKS
	TOTAL NUMBER OF COILS	TOTAL HEATING (BTUH)	ROWS	FINS PER INCH	WATER					AIR				CONNECTIONS		EDB (°F)	EWB (°F)	ERH (%)	LDB (°F)	LWB (°F)	LRH (%)	EFF. (%)	△P (IN. W.C.)	WATER (GPM)		
					E.W.T. (°F)	L.W.T. (°F)	△P (FT.W.C.)	GPM	TUBE VEL. FPS	Ent. DB (°F)	Lvg. DB (°F)	△P (IN. W.C.)	COIL FACE VELOCITY (FT/MIN)	COIL-IN (IN)	COIL-OUT (IN)											
MAU 1	1	388,200	2	8	180	150	0.3	26.5	?.?	28	76.8	0.3	600	2.5"	2.5"	102	71	21	74	71	88	0.9	0.7	0.8	2,000	1 2 3 4 5 6

REMARKS:

1. HORIZONTAL DISCHARGE, SEE PLANS FOR ACCESS DOORS AND COIL CONNECTION LOCATIONS. SEE M0.3 FOR UNIT CONFIGURATION DIAGRAMS.
2. PROVIDE SUPPLY AIR SMOKE DETECTOR IN THE SA DISCHARGE OF AHU TO PROVIDE UNIT SHUT-DOWN PER CMC. SMOKE DETECTOR PROVIDED, POWERED, AND WIRED TO FIRE ALARM BY DIVISION 26. SMOKE DETECTOR INSTALLED AND WIRED TO SHUT-DOWN FANS BY DIVISION 23.
3. PROVIDE WITH DOUBLE WALL W/ 1" FIBERGLASS WALL/BASE INSULATION, G90 GALV.. FINISH, UNIT CONTROL: BACnet , SF VFD, AIRFLOW PROVING CONTACT, COOLING/HEATING AIR SENSORS, SA LOW LIMIT, 2" MERV 13 FILTERS, LOW LEAK OA DAMPER, EVAP CONTROLS: RECIRC. PUMP W/ AUTO DRAIN AND FLUSH, EVAP. VALVES (SHIPPED LOOSE) LOUVERED INTAKE W/ 2" MESH FILTERS, STRUCTURAL MOUNTING CURB (REQD HEIGHT TO BE FIELD VERIFIED), NEMA-3R DISCONNECT.
4. DEDICATED 120 VAC/1-PH/60 ELECTRICAL POWER TO MAU HVAC CONTROLLER BY DIVISION 26. SEE M6.1 FOR HVAC CONTROL ARCHITECTURE.
5. SEE 2/M5.1 FOR MOUNTING DETAILS, M4.1 FOR HYDRONIC PIPING DIAGRAM, AND M6.X FOR HVAC CONTROL DIAGRAMS.
6. INTERLOCK MUA-1 WITH KEF-1, KEF-2, AND KEF-3.

DIFUSSER, REGISTER, & GRILLE SHEDULE

EXAMPLE OF CALLOUT:



SYMBOL	DESCRIPTION
CD-1	CEILING DIFFUSER "TITUS" MODEL MCD, STEEL CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING. FURNISH WITH AG-95 OPPOSED BLADE DAMPER AND OFF-WHITE FINISH. SIZE AND BLOW PATTERN AS INDICATED ON DRAWINGS.
SD-1	SECURITY CEILING DIFFUSER TITUS MODEL SG-TDC, MINIMUM SECURITY, 12 GAUGE FACE PLATE WITH 13/16" SQUARE HOLES, STEEL CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING. FURNISH WITH AG-95 OPPOSED BLADE DAMPER AND OFF-WHITE FINISH. SIZE AND BLOW PATTERN AS INDICATED ON DRAWINGS.
RG-1	RETURN GRILLE "TITUS" MODEL 60F, HEAVY DUTY GRILLE, 0 DEGREE DEFLECTION, $\frac{1}{2}$" BLADE SPACING, FRAME TYPE 1 FOR SURFACE MOUNTING. FURNISH WITH AG-95 OPPOSED BLADE DAMPER AND OFF-WHITE FINISH. SIZE AS INDICATED ON DRAWINGS.
SG-1	SECURITY EXHAUST GRILLE TITUS MODEL SG-LFF, MINIMUM SECURITY, 12 GAUGE FACE PLATE WITH 13/16" SQUARE HOLES, STEEL CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING. FURNISH WITH AG-95 OPPOSED BLADE DAMPER AND OFF-WHITE FINISH. SIZE AS INDICATED ON DRAWINGS.

CONDENSING UNIT (CU) SCHEDULE

TAG NO.	MFR/MODEL	LOCATION	AREA SERVED	REFRIGERANT						COOLING PERFORMANCE					ELECTRICAL DATA													SIZE (L"xW"XH")	WEIGHT (LBS)	SOUND (DBA)	REMARKS
				TYPE	COMPRESSOR			CONNECTIONS		RATED CAPACITY					COMPRESSORS		FAN MOTOR(S)				ELECTRICAL										
					QTY	TYPE	HP	LIQ.(IN)	SUC.(IN)	MBH	SAT. SUC. (°F)	AMBIENT (°F)	ALTITUDE (FT)	AWEF VALUE	RLA	LRA	QTY.	HP	FAN DIA. (IN)	FLA	VOLT	PHASE	HERTZ	MCA (AMP)	MOP (AMP)	EVAP. FAN (AMP)	DEFROST HTR. (AMP)				
CU 1	BOHN/ BCH00101MCA LZA0000	YARD	COOLER ROOM 132	404A	1	SCROLL	1	0.375	0.625	11.43	26.2	105	0	7.6	4.8	56	1	1/15	14	0.5	230	3	60	15	15	5	5	(28.5"x25"X20")	180	61	1 3 4
CU 2	BOHN/ BCH0025LCA CZA0200	YARD	FREEZER ROOM 133	404A	1	SCROLL	2.5	0.5	0.875	84.3	-22.5	105	0	3.15	8.7	63	2	1/15	14	1.0	230	3	60	28.8	30	9	23	(28.5"x39"X20")	230	64	2 3 4

REMARKS:

1. PROVIDE WITH PREFERRED PACKAGE CODE A0000. INCLUDE FIXED SPEED EC MOTOR, FILTER/DRIER AND SIGHT GLASS, HEAD PRESSURE VALVE 150#, CRANKCASE HEATER, MICROCHANNEL COIL, SUCTION TUBE, PAINTED, ADJUSTABLE LOW PRESSURE-FIXED HIGH.
2. PROVIDE WITH PREFERRED PACKAGE CODE A0200. INCLUDE PSC MOTOR, FILTER/DRIER AND SIGHT GLASS, HEAD PRESSURE VALVE 100#, CRANKCASE HEATER, MICROCHANNEL COIL, ELECTRIC DEFROST TIMER, SUCTION TUBE, PAINTED, ADJUSTABLE LOW PRESSURE-FIXED HIGH.
3. ELECTRICAL CONTRACTOR TO PROVIDE NEMA-3R DISCONNECT SWITCH FOR EACH UNIT.
4. PROVIDE MINIMUM CLEARANCES AROUND EACH UNIT PER MANUFACTURE'S REQUIREMENTS.

EVAPORATOR UNIT (CU) SCHEDULE

TAG NO.	MFR/MODEL	LOCATION	AREA SERVED	REFRIGERANT			COOLING PERFORMANCE						ELECTRICAL DATA										SIZE (L"xW"XH")	WEIGHT (LBS)	DRAIN (IN)	SOUND (DBA)	REMARKS
				TYPE	CONNECTIONS		RATED CAPACITY						FAN MOTOR(S)				ELECTRICAL										
					LIQ.(IN)	SUC.(IN)	MBH	AIRFLOW (CFM)	SAT. SUC. (°F)	TD (°F)	ALTITUDE (FT)	AWEF VALUE	QTY.	WATTS	FAN DIA. (IN)	FLA	VOLT	PHASE	HERTZ	MCA (AMP)	MOP (AMP)	DEFROST HTR. (WATTS/AMP)					
EU 1	BOHN/ BEL0115AS6 AMAB0403	COOLER	COOLER ROOM 132	404A	0.5	0.625	11.7	1200	26.2	9.7	0	9.0	2	110	12	1.8	115	1	60	15	15	N/A	(45.5"x13"X16.5")	60	3/4	N/A	1 3 4
EU 2	BOHN/ BEL0090BS4 EEAB0403	YARD	FREEZER ROOM 133	404A	0.5	0.875	84.3	-22.5	10.5	10.5	0	4.0	2	118	14	1.0	208	1	60	15	15	2000/9.1	(45.5"x13"X16.5")	60	3/4	N/A	2 3 4

REMARKS:

1. PROVIDE WITH MOLDED FAN GUARD, ALUMINUM FIN MATERIAL, 2-SPEED EC MOTOR, EMBOSSED CABINET, ELECTRONIC THERMOSTAT, 115 VAC SOLENOID VOLTAGE, TXV VALVE TYPE.
2. PROVIDE WITH 208-230 VAC DRAIN PAN DEFROST VOLTAGE, EMBOSSED CABINET, ELECTRONIC THERMOSTAT, 230 VAC SOLENOID VOLTAGE, TXV VALVE TYPE, HEATER LIMIT SWITCH, FIXED SPEED EC MOTOR, MOLDED FAN GUARD, FIXED DEFROST CONTROL, ALUMINUM FIN MATERIAL..
3. ELECTRICAL CONTRACTOR TO PROVIDE NEMA-3R DISCONNECT SWITCH FOR EACH UNIT.
4. PROVIDE MINIMUM CLEARANCES AROUND EACH UNIT PER MANUFACTURE'S REQUIREMENTS.

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STEVEN BAYANATI
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MECHANICAL SCHEDULES

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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COR
24-014

CAD FILE:
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REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
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OF # SHEETS V3

KITCHEN EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	AREA SERVED	DRIVE	CFM	ESP	RPM	HP/ WATTS	ELECTRICAL DATA				WEIGHT (LBS)	SONES	REMARKS
										VOLT	PHASE	HERTZ	FLA			
KEF 1	CAPTIVE AIRE	DU200HFA (UPBLAST TYPE)	ROOF	EXHAUST HOOD 1	DIRECT	3230	1.5	1520	3HP	460	3	60	4.8	275	?	1
KEF 2	CAPTIVE AIRE	DU200HFA (UPBLAST TYPE)	ROOF	EXHAUST HOOD 2	DIRECT	3230	1.5	1520	3HP	460	3	60	4.8	275	?	1
KEF 3	CAPTIVE AIRE	DU300HFA (UPBLAST TYPE)	ROOF	EXHAUST HOOD 3	DIRECT	5380	1.5	1273	5HP	460	3	60	7.6	575	?	1
KEF 4	CAPTIVE AIRE	DU50HFA (UPBLAST TYPE)	ROOF	DISH WASHER HOOD	DIRECT	1050	0.5	1213	0.5HP	120	1	60	6.3	1000	10	2

REMARKS:

1. PROVIDE WITH NEMA-3R DISCONNECT SWITCH, EXTENDED/VENTED CURB, HINGED FAN FOR ACCESS, CURB SEAL, BIRD SCREEN, GREASE COLLECTION BOX, ENCLOSED VARIABLE SPEED DRIVE, UL-705 RESTAURANT EXHAUST FAN.
2. PROVIDE WITH NEMA-3R DISCONNECT SWITCH, VENTED CURB, CURB SEAL, BIRD SCREEN, ENCLOSED VARIABLE SPEED DRIVE, UL-705 RESTAURANT EXHAUST FAN.

ROOF EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	AREA SERVED	DRIVE	CFM	ESP	RPM	HP/ WATTS	ELECTRICAL DATA				WEIGHT (LBS)	SONES	REMARKS
										VOLT	PHASE	HERTZ	FLA			
REF 1	GREENHECK	CUE-140-VG (UPBLAST TYPE)	ROOF	STORAGE 128 TRASH 129/JAN. 130	DIRECT	800	0.4	1000	1/4HP	120	1	60	3.8	100	5.9	1
REF 2	GREENHECK	CUE-140-VG (UPBLAST TYPE)	ROOF	ELECTRICAL 201	DIRECT	800	0.4	1000	1/4HP	120	1	60	3.8	100	5.9	1
REF 3	GREENHECK	CUE-140-VG (UPBLAST TYPE)	ROOF	STORAGE 134 TOILETS 135/136	DIRECT	800	0.4	1000	1/4HP	120	1	60	3.8	100	5.9	1
REF 4	GREENHECK	CUE-140-VG (UPBLAST TYPE)	ROOF	DINING 127	DIRECT	750	0.4	1000	1/4HP	120	1	60	3.8	100	5.9	1
REF 5	GREENHECK	CUE-140-VG (UPBLAST TYPE)	ROOF	DINING 138	DIRECT	750	0.4	1000	1/4HP	120	1	60	3.8	100	5.9	1

REMARKS:

1. PROVIDE WITH NEMA-3R DISCONNECT SWITCH, 1.5" LINED CURB, CURB SEAL, GRAVITY DAMPERS, BIRD SCREEN, SPEED CONTROLLER.

FLY FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	AREA SERVED	QUANTITY	CFM	WIND (MPH)	NOZZLE WIDTH (IN)	MOTORS (#)	HP	DRIVE	ELECTRICAL DATA				WEIGHT (LBS)	SONES	REMARKS
												VOLT	PHASE	HERTZ	FLA			
FF 1	MARS	STD248-1UA-TS	EXTERIOR DOOR	VESTIBULE 137	1	1442	12	72	1	0.5	DIRECT	120	1	60	5.1	400	18.4	1
FF 2	MARS	STD272-2UA-TS	EXTERIOR DOORS	DINING 127/138	6	4118	12	72	2	1.0	DIRECT	480	3	60	3.1	400	18.4	1

REMARKS:

1. PROVIDE WITH REMOTE DISCONNECT SWITCH, DOOR LIMIT SWITCH, MOUNTING BRACKETS.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	TYPE	FLUID/°F/SG	GPM	TDH(FT)	NPSH(FT)	IMP.DIA (IN)	SUCTION DISCHARGE (IN)/(IN)	RPM	HP/BHP	EFF(%)	ELECTRICAL DATA				OPER. WT. (LBS)	REMARKS
														VOLT	PHASE	HERTZ	MOTOR/ TYPE		
HWP 1	TACO	SCI-2007D-A-4PD	YARD	CLOSE COUPLED	WATER/ 180/1.0	100	50	2.0	7.25	2.5 FL/ 2.0 FL	1760	3.0/1.76	72	460	3	60	182JM/ TEFC	175	1 2

REMARKS:

1. PROVIDE WITH SUCTION DIFFUSER (TACO P/N: SD025020-5), CLASS 125 FLANGED CONNECTIONS, SMART DRIVE WITH FUSED DISCONNECT (SEE VFD SCHEDULE).
2. SEE M4.1 FOR PIPING DIAGRAM AND M6.1 FOR CONTROL DIAGRAM.

VARIABLE SPEED DRIVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL/SIZE	LOCATION	SYSTEM	ENCLOSURE	HP	I/O	CONTROL PROTOCOL	EMC/RFI CONTROL	HARMONIC SUPPRESSION	ELECTRICAL DATA				OPER. WT. (LBS)	SIZE H"xW"xD"	REMARKS
											VOLT	PHASE	HERTZ	ELEC. CONFIG.			
VFD 1	TACO SMART DRIVE	DANFOSS VLT-FC102/A2	YARD	HWP-1	NEMA-4X	5.0	STD	STD BACNET	FILTER EN61800-3	5%	460	3	60	FUSED DISC.	175	17x10x10	1 2

REMARKS:

1. PROVIDE DRIVE WITH FUSED DISCONNECT, UL LISTED NEMA-4X ENCLOSURE, STANDARD CONTROL PROTOCOL PACKAGE THAT INCLUDES: BACNET/MODBUS/METASYS. SEE PUMP SCHEDULE FOR DRIVE APPLICATION. MOTOR DATA IS PER NEC TABLE 430.250 TYPICAL FOR MOTOR APPLICATIONS.
2. SEE M6.1 FOR CONTROL DIAGRAM.

INTAKE/RELIEF HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	AREA SERVED	QUANTITY (#)	AIRFLOW (CFM)	THROAT SIZE (IN x IN)	THROAT VEL (FPM)	PRESS.DROP (IWG)	WEIGHT (LBS)	REMARKS
IH 1	GREENHECK	FHI-12x18	ROOF	ELECTRICAL 201	1	800	12 x 18	533	0.067	75	1
RH 1	GREENHECK	FGR-24x24	ROOF	DINING 127	2	1,200	24x24	300	0.022	100	1
RH 2	GREENHECK	FGR-24x24	ROOF	DINING 138	2	1,200	24x24	300	0.022	100	1
RH 3	GREENHECK	FGR-30x30	ROOF	FOOD PREP. 131	1	1,650	30 x 30	265	0.017	120	1
RH 4	GREENHECK	FGR-30x30	ROOF	FOOD PREP. 131	1	1,650	30 x 30	265	0.017	120	1

REMARKS:

1. PROVIDE WITH GALVANIZED BIRD SCREEN (0.5" MESH), GALVANIZED STEEL HOUSING, 1.5" LINED CURB, GRAVITY DAMPER, ALUMINUM MESH INSECT SCREEN, AND CURB SEAL.

CONTROL VALVE SCHEDULE

HHW VALVE MARK	VALVE/ ACTUATOR MANUFACTURER	MODEL	SERVICE	TYPE	FLOW RATE (GPM)	VALVE CV	VALVE SIZE (IN)	PIPE SIZE (IN)	MAX VALVE PD (FT)	ACTUATOR	ACTION	VOLTS	REMARKS
CV–AHU1	BELIMO	B323	AHU–1	3–WAY CCV	20	10	1	1 1/2	4	LF24–MFT	N.C.	24 V DC	1 2
CV–AHU2	BELIMO	B323	AHU–2	3–WAY CCV	20	10	1	1 1/2	4	LF24–MFT	N.C.	24 V DC	1 2
CV–AHU3	BELIMO	B230	AHU–3	2–WAY CCV	26.5	19	1.25	2	3	LF24–MFT	N.C.	24 V DC	1 2
CV–MAU1	BELIMO	B230	MAU–1	2–WAY CCV	26.5	19	1.25	2	3	LF24–MFT	N.C.	24 V DC	1 2

REMARKS:

1. PROVIDE DEDICATED ELECTRICAL POWER FOR MECHANICAL CONTROL SYSTEM. REFER TO ELECTRICAL POWER PLANS AND CONTROL PLAN M6.1.
2. PROVIDE REDUCERS AS REQUIRED FOR PIPE CONNECTIONS TO CONTROL VALVES. REFER TO PIPING DIAGRAM M4.1.

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CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL SCHEDULES
FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M0.5
OF # SHEETS V3

KITCHEN EXHAUST HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	TYPE	HOOD SIZE (LENGTH x DEPTH x HEIGHT)	MAX. COOKING TEMP.	EXHAUST PLENUM								HOOD CONFIG.		FILTER(S)			LIGHT(S)			FIRE SYSTEM PIPING	HOOD HANGING WGHT	REMARK(S)
							TOTAL EXH. CFM	RISER(S)																	
								WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.	END TO END	ROW	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD			
KEH 1	CAPTIVEAIRE	5424 ND-2WI	FOOD PREP 131	TYPE-I (GREASE VAPOR)	12'-0" x 4'-6" x 2'-0"	450 DEG.	3,230	16"	16"	4"	-	3,230	1,816	1.095	ALONE	ALONE	9	20"	16"	3	RECESSED	NO	NO	825 LBS	1 2 3 4 5 6 7 8
KEH 2	CAPTIVEAIRE	5424 ND-2WI	FOOD PREP 131	TYPE-I (GREASE VAPOR)	12'-0" x 4'-6" x 2'-0"	450 DEG.	3,230	16"	16"	4"	-	3,230	1,816	1.095	ALONE	ALONE	9	20"	16"	3	RECESSED	NO	NO	825LBS	1 2 3 4 5 6 7 8
KEH 3A	CAPTIVEAIRE	6024 ND-2WI	FOOD PREP 131	TYPE-I (GREASE VAPOR)	10'-0" x 5'-0" x 2'-0"	450 DEG.	2,690	10"	24"	4"	-	2,690	1,937	1.056	LEFT	ALONE	7	16"	16"	3	RECESSED	NO	NO	450 LBS	1 2 3 4 5 6 7 8
KEH 3B	CAPTIVEAIRE	6024 ND-2WI	FOOD PREP 131	TYPE-I (GREASE VAPOR)	10'-0" x 5'-0" x 2'-0"	450 DEG.	2,690	10"	24"	4"	-	2,690	1,937	1.056	RIGHT	ALONE	7	16"	16"	3	RECESSED	NO	NO	770 LBS	1 2 3 4 5 6 7 8

REMARKS:

1. ALL KITCHEN EXHAUST HOODS TO BE REPLACED. PROTECT EXISTING KITCHEN APPLIANCES DURING WORK.
2. NEW TYPE-1 KITCHEN EXHAUST HOOD, 304 STAINLESS STEEL HOOD CONSTRUCTION. STRUCTURE HUNG. SEE DRAWING SHEET M0.7.
3. ALL KITCHEN EXHAUST HOODS WILL BE PROVIDED AND INSTALLED WITH NEW (UL-300 COMPLIANT) WET CHEMICAL FIRE SUPPRESSION, DESIGNED AND BUILT BY FIRE SUPPRESSION CONSULTANT/CONTRACTOR. REFER TO THE "DELEGATED DESIGN SUBMITTAL" OF KITCHEN HOOD FIRE SUPPRESSION SYSTEM ON SHEET M0.1.
4. NEW HOOD UTILITY CABINET FOR ELECTRICAL, SWITCHES & FIRE SUPPRESSION SYSTEM CONTROLS SHALL BE MOUNTED AT THE SIDE OF THE KITCHEN HOOD. SEE ENLARGED SHEET M0.7.
5. PROVIDE REMOTE TOUCH-SCREEN USER INTERFACE PANEL TO OPERATE THE LIGHTS IN THE KITCHEN EXHAUST HOODS AND ASSOCIATED VENTILATION FANS (KEF-1, KEF-2, KEF-3, MAU-1, AHU-3). THIS PANEL SHALL ALLOW INTERCONNECTION TO THE BUILDING MANAGEMENT SYSTEM AND FIRE SUPPRESSION CONTROL PANELS AT EACH OF THE KITCHEN EXHAUST HOODS.
6. FIRE SUPPRESSION PIPING, NOZZLES, DEVICES INSTALLATION BY FIRE SUPPRESSION CONTRACTOR. DEFERRED INSTALLATION.
7. FILTERS TYPE - CAPTRATE SOLO FILTER, EFFICIENCY @ 7 MICRONS 85% SEE FILTER SPECIFICATIONS SHEET M0.7.
8. PROVIDE EACH HOOD WITH ELECTRICAL PACKAGE THAT INCLUDES SMART CONTROLS THERMOSTATIC CONTROLS WITH RELAY ON/OFF WITH SUPPLY. SEE CONFIGURATION PLANS FOR UTILITY CABINET LOCATIONS ON HOODS.

VAPOR EXHAUST HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	TYPE	HOOD SIZE (LENGTH x DEPTH x HEIGHT)	MAX. COOKING TEMP.	EXHAUST PLENUM								HOOD CONFIG.		LIGHT(S)			FIRE SYSTEM PIPING	HOOD HANGING WGHT	REMARK(S)
							TOTAL EXH. CFM	RISER(S)														
								WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.	END TO END	ROW	QTY.	TYPE	WIRE GUARD			
VEH 1	CAPTIVEAIRE	4224 VHB-G	DISH WASH 131.2	TYPE-2 VAPOR	7'-4" x 3'-6" x 2'-0"	700	1027	-	-	-	10x2	513.5	941	0.067	ALONE	ALONE	3	RECESSED	NO	NO	230 LBS	1 2

REMARKS:

1. ALL KITCHEN EXHAUST HOODS TO BE REPLACED. PROTECT EXISTING/NEW DISH WASHER DURING WORK.
2. NEW TYPE-2 KITCHEN EXHAUST HOOD, 430 STAINLESS STEEL HOOD CONSTRUCTION. STRUCTURE HUNG. SEE DRAWING SHEET MX.X.

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MECHANICAL SCHEDULES

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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REVISIONS

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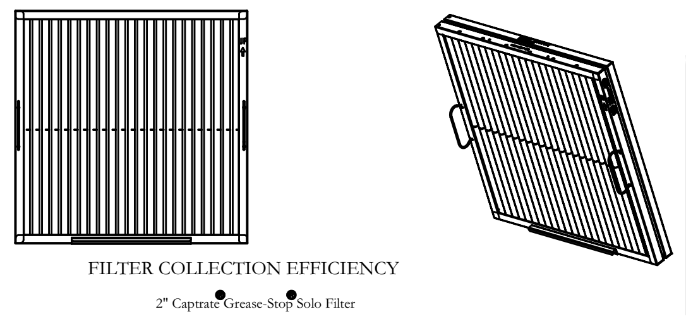
OF # SHEETS V3

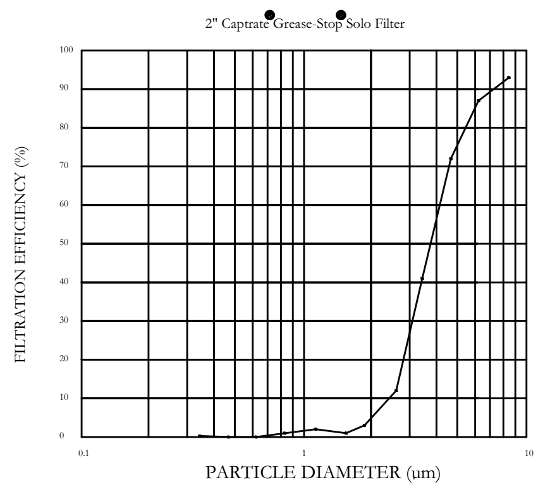
CAPTRATE SOLO FILTERS



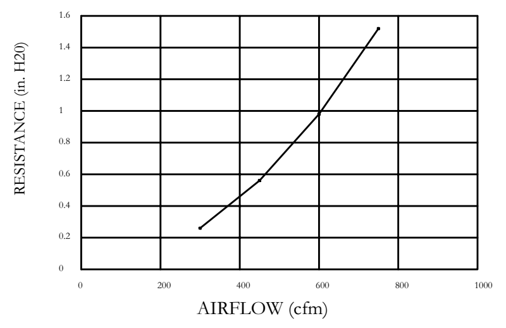
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH

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

FILTER COLLECTION EFFICIENCY
2" Captrate Grease-Stop Solo Filter



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



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 CHANNEL(S).

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

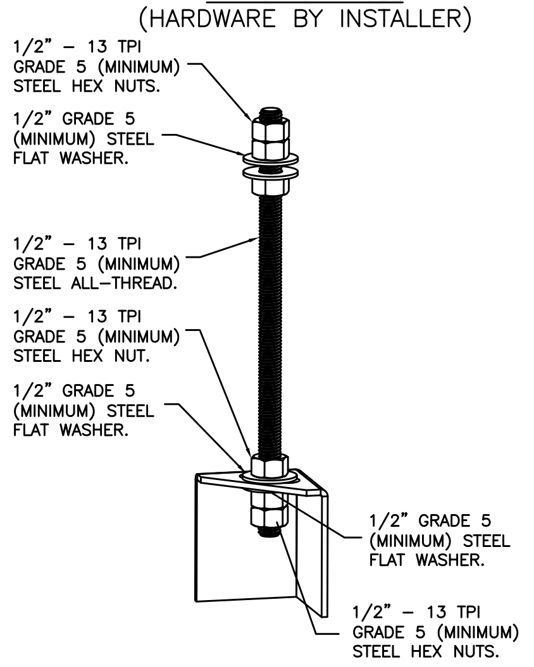
NOMINAL SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (POUNDS)	VELOCITY (FEET PER MINUTE)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.28	11	100	0.25
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.78	8.9	125	0.35
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.78	9.1	150	0.45
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.39	7.4	175	0.75
12 x 20	11-5/8" x 19-5/8" x 1-7/8"	1.23	6.8	200	0.90
12 x 16	11-5/8" x 15-5/8" x 1-7/8"	0.96	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 MECHANCIAL CODE

BUILDING CODES

HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)


1/2" – 13 TPI GRADE 5 (MINIMUM) STEEL HEX NUTS.
1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER.
1/2" – 13 TPI GRADE 5 (MINIMUM) STEEL ALL-THREAD.
1/2" – 13 TPI GRADE 5 (MINIMUM) STEEL HEX NUT.
1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER.
1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER.
1/2" – 13 TPI GRADE 5 (MINIMUM) STEEL HEX NUTS.

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED 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.

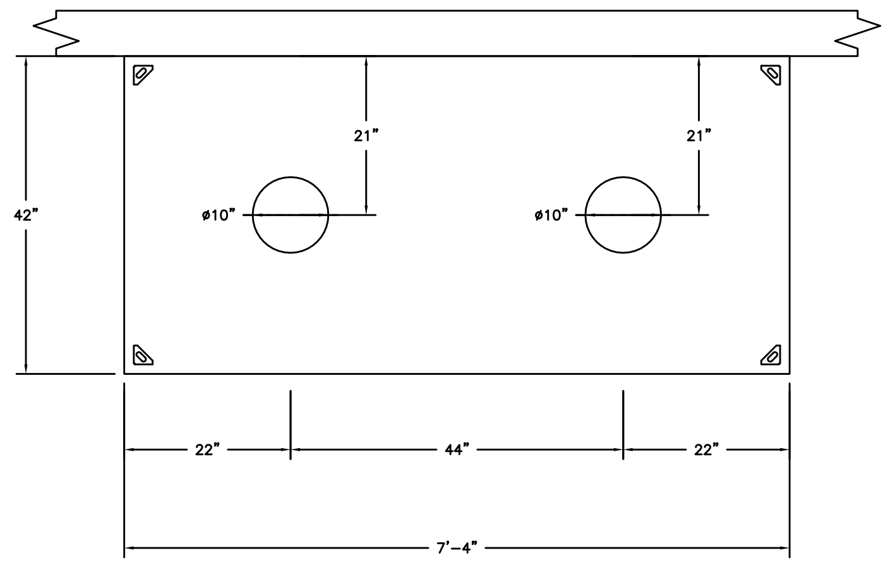
ND-2 HANGING ANGLE DETAIL

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

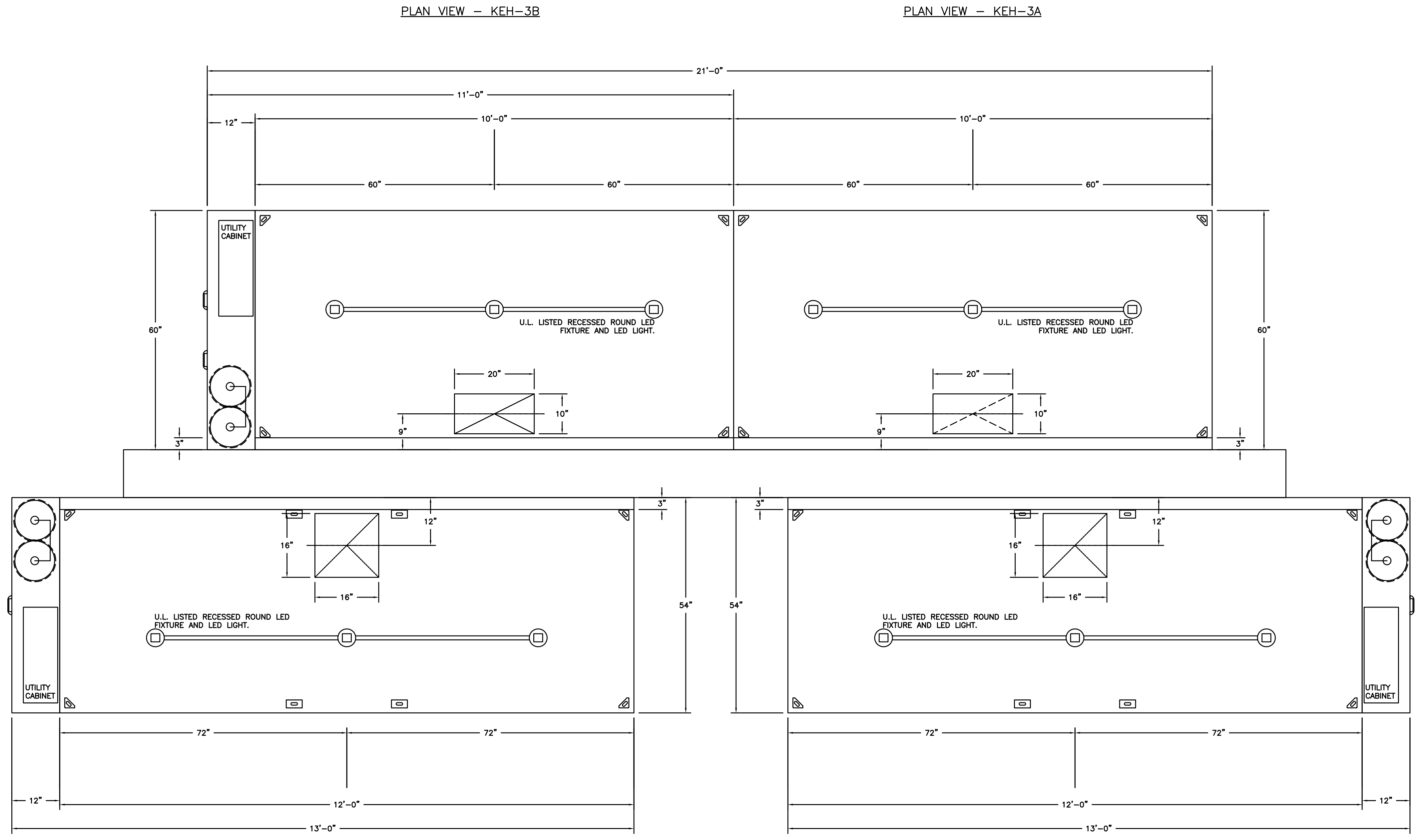
HANGING ANGLE LOCATIONS



PLAN VIEW – KEH-4

KITCHEN EXHAUST HOOD CONFIGURATIONS

NTS
3


21'-0"
11'-0"
12"
10'-0"
10'-0"
60"
60"
60"
60"
UTILITY CABINET
U.L. LISTED RECESSED ROUND LED FIXTURE AND LED LIGHT.
U.L. LISTED RECESSED ROUND LED FIXTURE AND LED LIGHT.
20"
20"
10"
10"
9"
9"
3"
3"
60"
60"
3"
3"
12"
12"
16"
16"
16"
16"
54"
54"
U.L. LISTED RECESSED ROUND LED FIXTURE AND LED LIGHT.
U.L. LISTED RECESSED ROUND LED FIXTURE AND LED LIGHT.
UTILITY CABINET
UTILITY CABINET
72"
72"
72"
72"
12"
12'-0"
12'-0"
12"
13'-0"
13'-0"

PLAN VIEW – KEH-3B

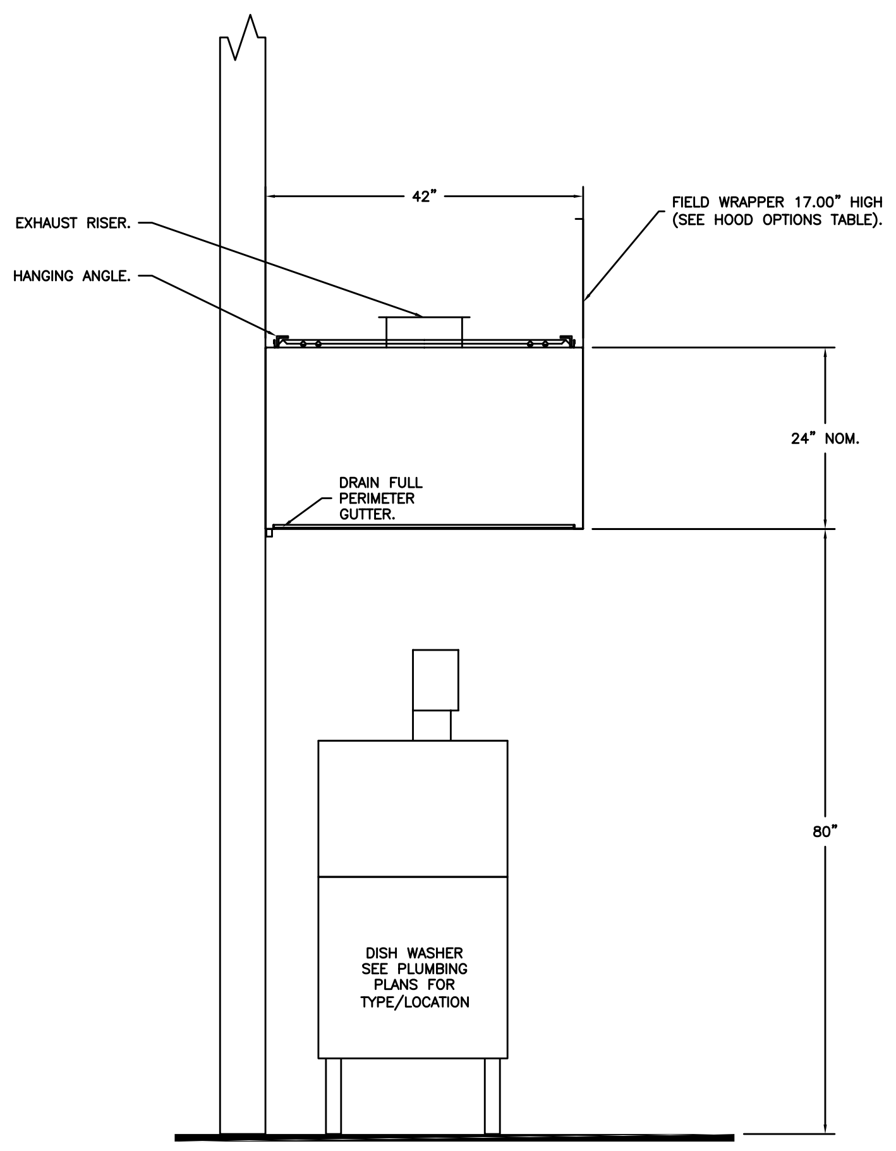
PLAN VIEW – KEH-3A

PLAN VIEW – KEH-2

PLAN VIEW – KEH-1

KITCHEN EXHAUST HOOD CONFIGURATIONS

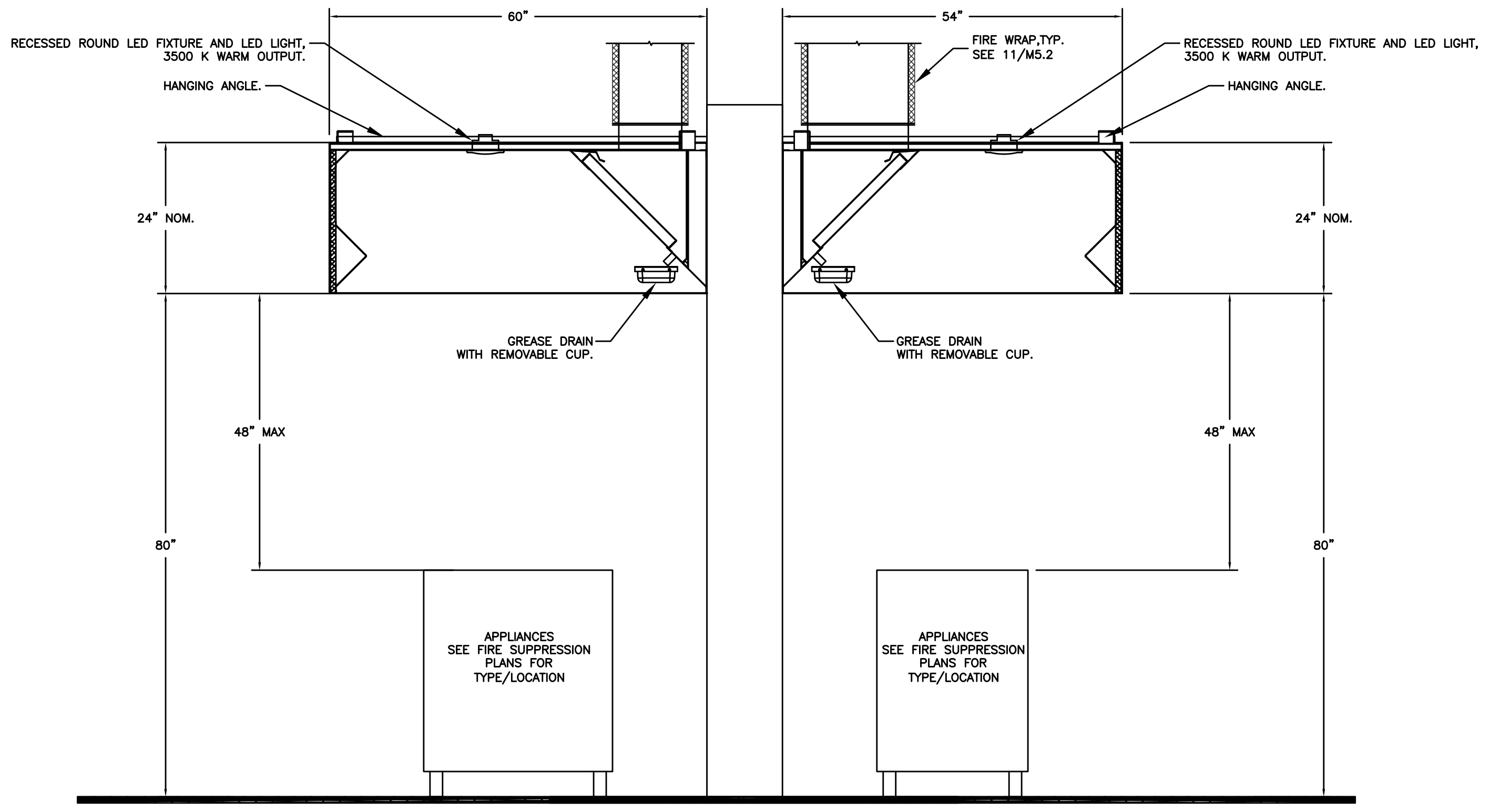
NTS
1


42"
EXHAUST RISER.
HANGING ANGLE.
FIELD WRAPPER 17.00" HIGH (SEE HOOD OPTIONS TABLE).
24" NOM.
DRAIN FULL PERIMETER GUTTER.
80"
DISH WASHER SEE PLUMBING PLANS FOR TYPE/LOCATION

SECTION VIEW – KEH-4

KITCHEN EXHAUST HOOD CONFIGURATIONS

NTS
4


60"
RECESSED ROUND LED FIXTURE AND LED LIGHT, 3500 K WARM OUTPUT.
HANGING ANGLE.
24" NOM.
GREASE DRAIN WITH REMOVABLE CUP.
48" MAX
80"
APPLIANCES SEE FIRE SUPPRESSION PLANS FOR TYPE/LOCATION
54"
FIRE WRAP,TYP. SEE 11/M5.2
RECESSED ROUND LED FIXTURE AND LED LIGHT, 3500 K WARM OUTPUT.
HANGING ANGLE.
24" NOM.
GREASE DRAIN WITH REMOVABLE CUP.
48" MAX
80"
APPLIANCES SEE FIRE SUPPRESSION PLANS FOR TYPE/LOCATION

SECTION VIEW – KEH-1/-2

SECTION VIEW – KEH-3A/-3B

APPLIANCE NOTE:

MOVEABLE APPLIANCES ON WHEELS OR CASTERS SHALL HAVE POSI-SET, OR SIMILAR DEVICES INSTALLED TO ENSURE THE APPLIANCES ARE CORRECTLY POSITIONED IN RELATION TO THE APPLIANCE DISCHARGE NOZZLE PER NFPA 17A.

KITCHEN EXHAUST HOOD CONFIGURATIONS

NTS
2

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MECHANICAL SCHEDULES

FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
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CORCORAN, CALIFORNIA 93212

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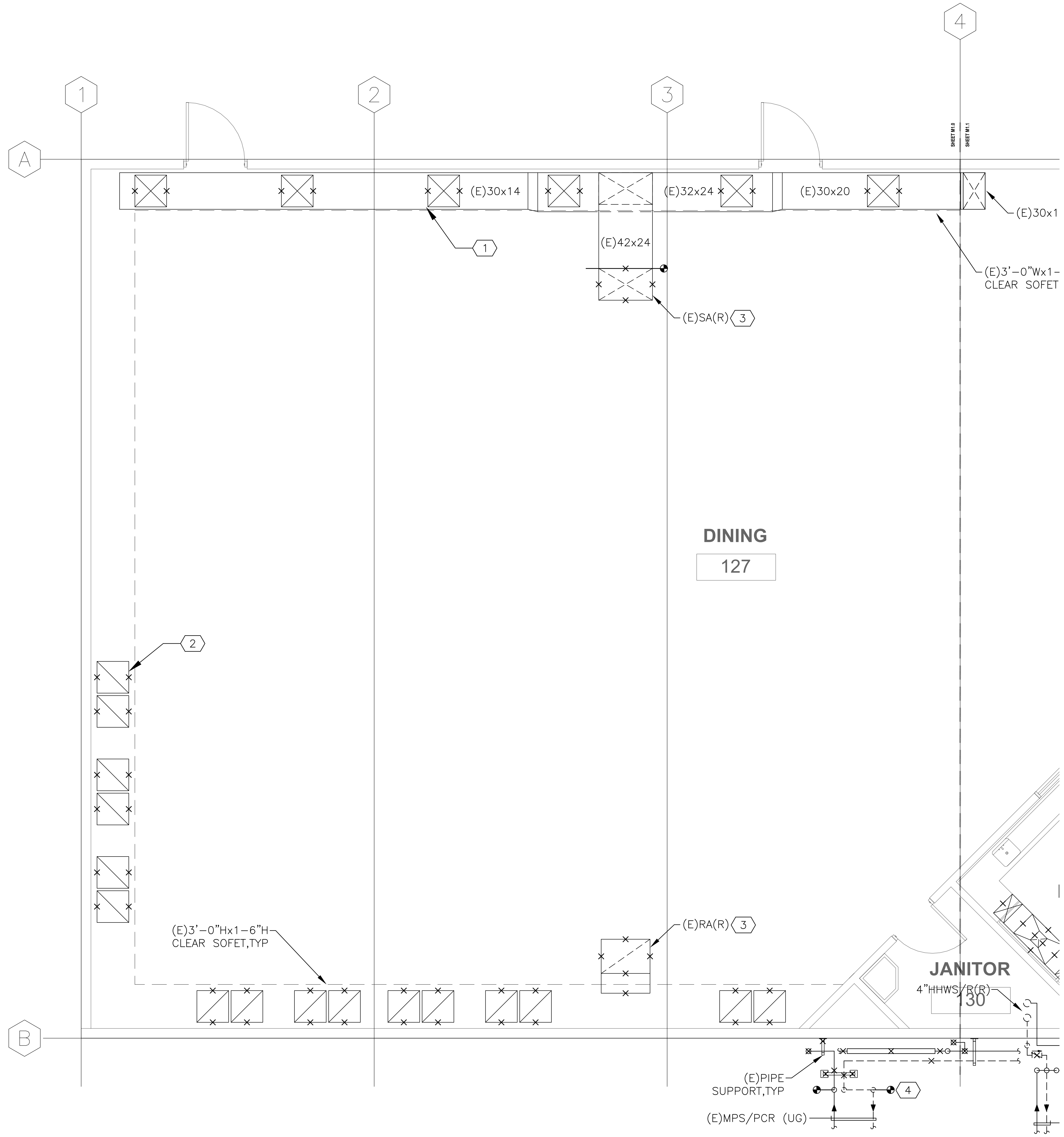
OF # SHEETS V3



1 MECHANICAL ENLARGED FLOOR PLAN—DEMOLITION

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

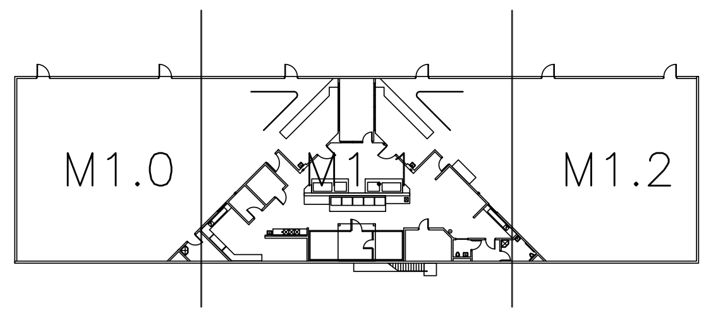
GENERAL NOTES

1. BACKGROUND FOR THIS SHEET IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR CDCR REPRESENTATIVE IF (E) FIELD CONDITIONS DO NOT MATCH THE DRAWINGS.
2. CONTRACTOR SHALL VISIT SITE DURING THE PRE BID CONFERENCE TO BE SCHEDULE BY THE STATE TO DETERMINE ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON DRAWINGS THAT MAY EFFECT HIS BID.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.

KEYNOTES

1. REMOVE (E) SUPPLY AIR DIFFUSERS AND BRANCH DUCTWORK BACK TO MAIN. CAP DUCTWORK AIR-TIGHT AT MAIN. TYPICAL ALL LOCATIONS.
2. REMOVE RETURN AIR GRILLES FROM SOFFIT. TYPICAL ALL LOCATIONS.
3. REMOVE SUPPLY AND RETURN AIR MAIN DUCTWORK THRU ROOF AS SHOWN.
4. REMOVE STEAM AND CONDENSATE PIPING AND ASSOCIATED PIPE SUPPORTS. TERMINATE STEAM AND CONDENSATE PIPING ABOVE GRADE WITH WELDED CAP OR SOV WITH PLUG.

KEY PLAN



BUILDING 307A
NORTH

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24-014

MECHANICAL ENLARGED FLOOR PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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REVISIONS

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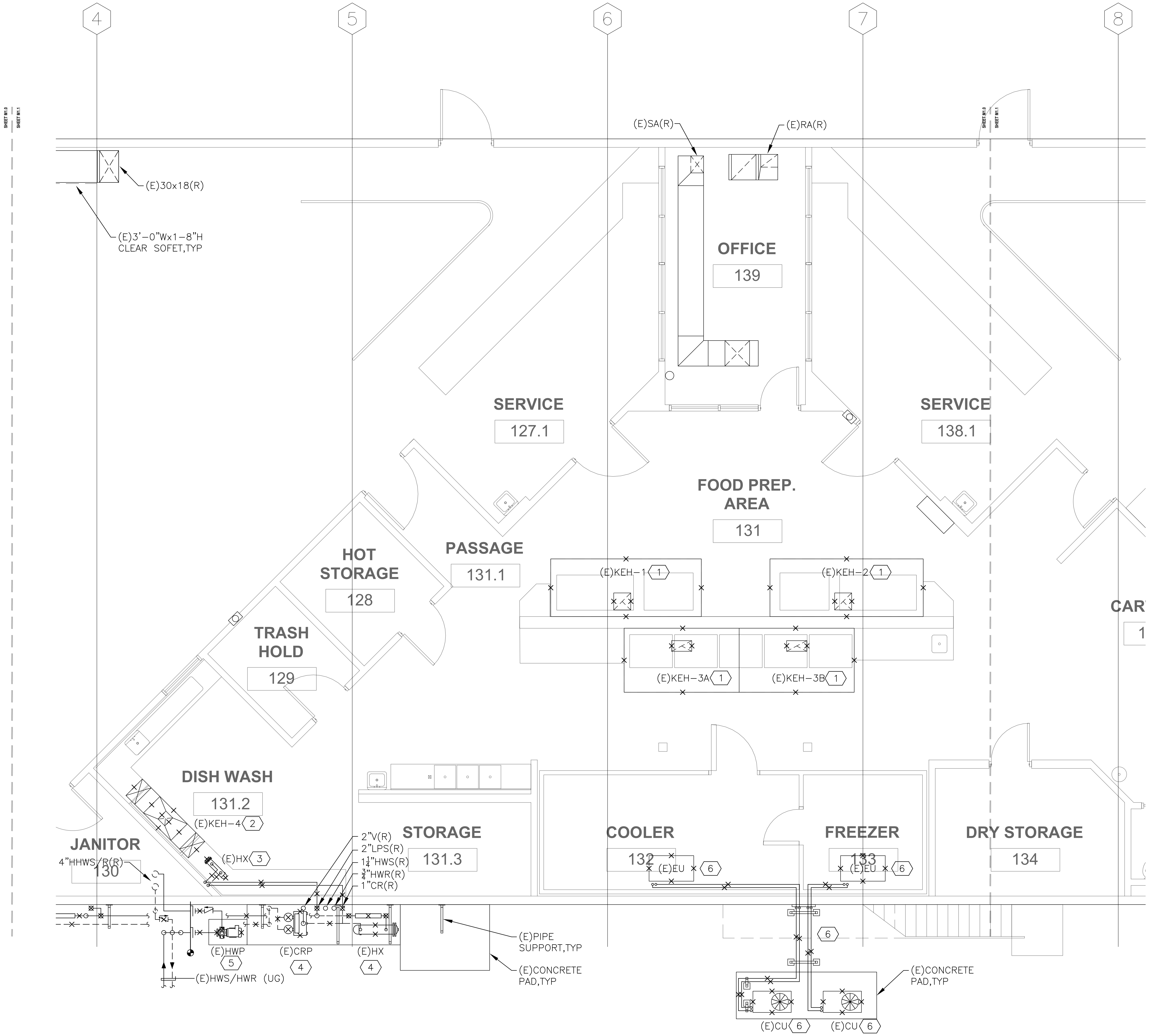
OF # SHEETS V3



1 MECHANICAL ENLARGED FLOOR PLAN—DEMOLITION
SCALE: 1/4" = 1'-0"

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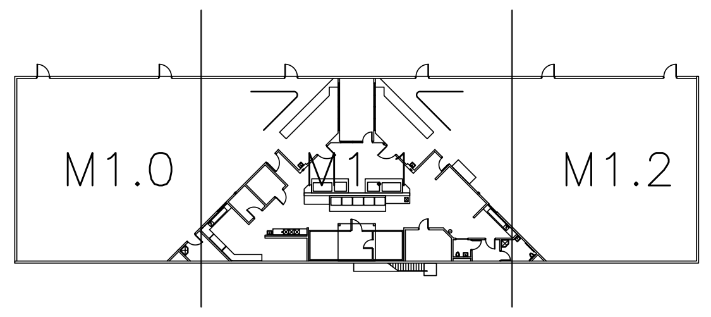
KEYNOTES

1. REMOVE (E) KITCHEN EXHAUST HOODS AND (E) EA DUCTWORK INCLUDING SUPPORTS. TYPICAL ALL LOCATIONS.
2. REMOVE (E) DISH WASHER EXHAUST HOOD INCLUDING ALL SUPPORTS AND EA DUCTWORK UP THRU ROOF.
3. REMOVE STEAM HEAT EXCHANGER SERVING THE DISH WASHER INCLUDING ALL SUPPORTS. REMOVE ALL STEAM AND CONDENSATE PIPING INCLUDING HANGERS. DISCONNECT DOMESTIC HOT WATER FROM HEAT EXCHANGER AND CAP AT WALL.
4. REMOVE ALL EXTERIOR STEAM AND CONDENSATE PIPING INCLUDING HEAT EXCHANGER AND CONDENSATE PUMP.
5. REMOVE HEATING WATER DISTRIBUTION PUMP INCLUDING SOV'S AND CHV'S, AND BV'S AS SHOWN.
6. REMOVE (E) EVAPORATOR UNITS (EU'S), REFRIGERANT PIPING, AND CONDENSING UNITS (CU'S).

KEY PLAN



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#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED FLOOR PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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COR
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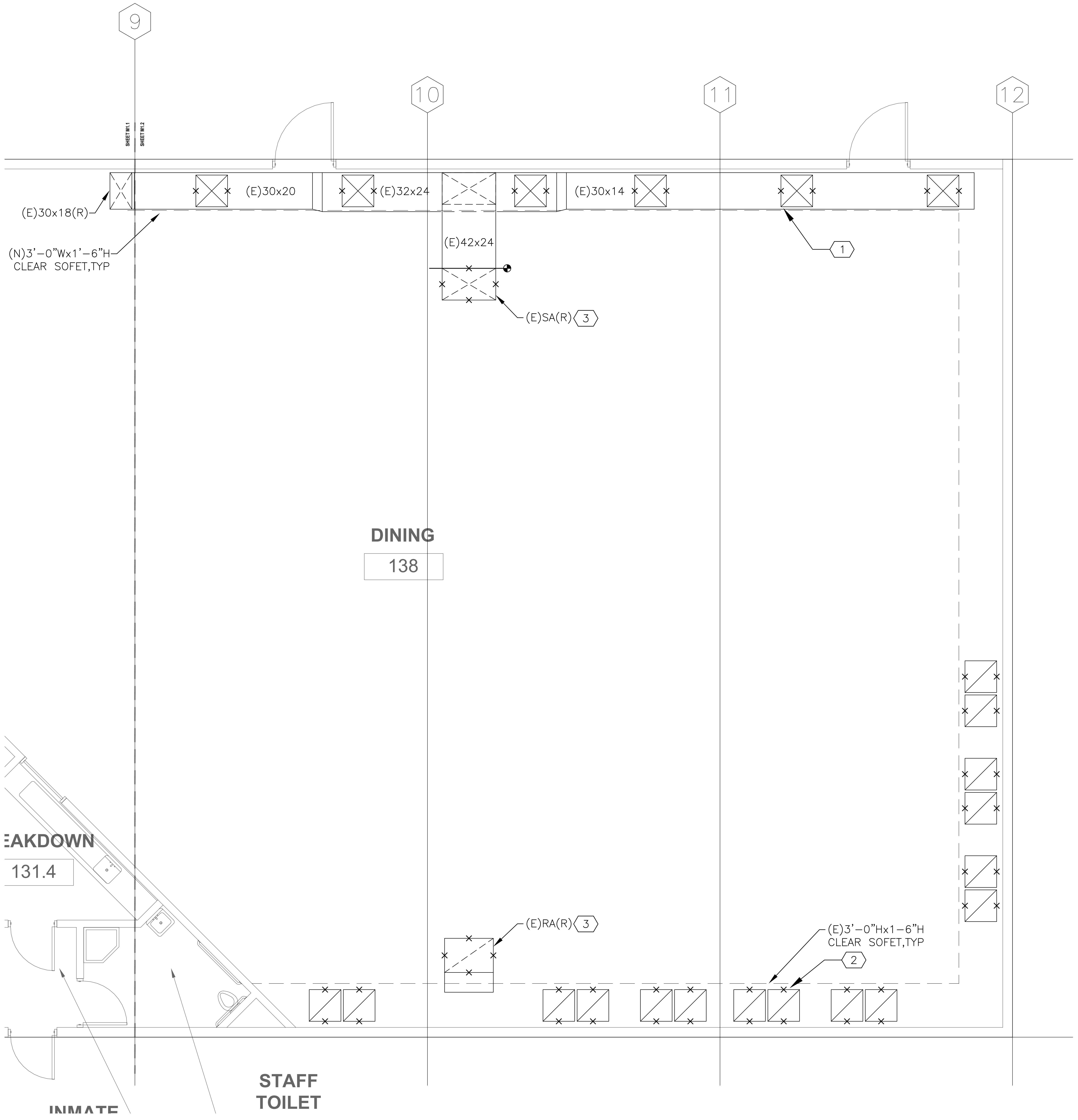
DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M1.1
OF # SHEETS V3



1 MECHANICAL ENLARGED FLOOR PLAN—DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. BACKGROUND FOR THIS SHEET IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR CDCR REPRESENTATIVE IF (E) FIELD CONDITIONS DO NOT MATCH THE DRAWINGS.
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3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.

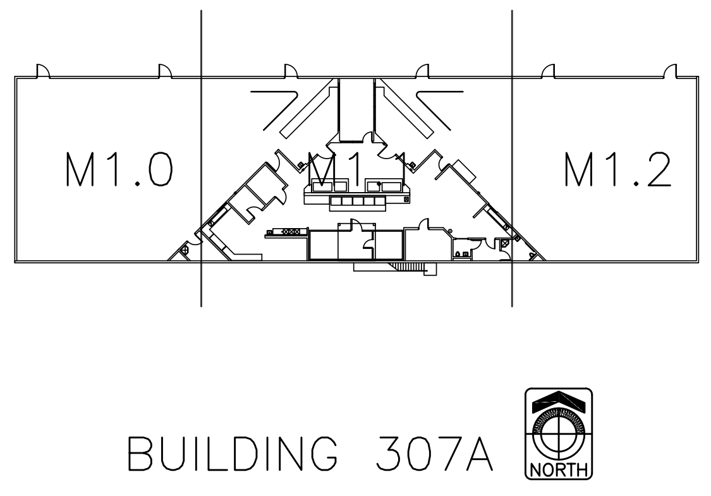
KEYNOTES

① REMOVE (E) SUPPLY AIR DIFFUSERS AND BRANCH DUCTWORK BACK TO MAIN. CAP DUCTWORK AIR–TIGHT AT MAIN. TYPICAL ALL LOCATIONS.

② REMOVE RETURN AIR GRILLES FROM SOFFIT. TYPICAL ALL LOCATIONS.

③ REMOVE SUPPLY AND RETURN AIR MAIN DUCTWORK THRU ROOF AS SHOWN.

KEY PLAN



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#1336 6/30/2025
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FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED FLOOR PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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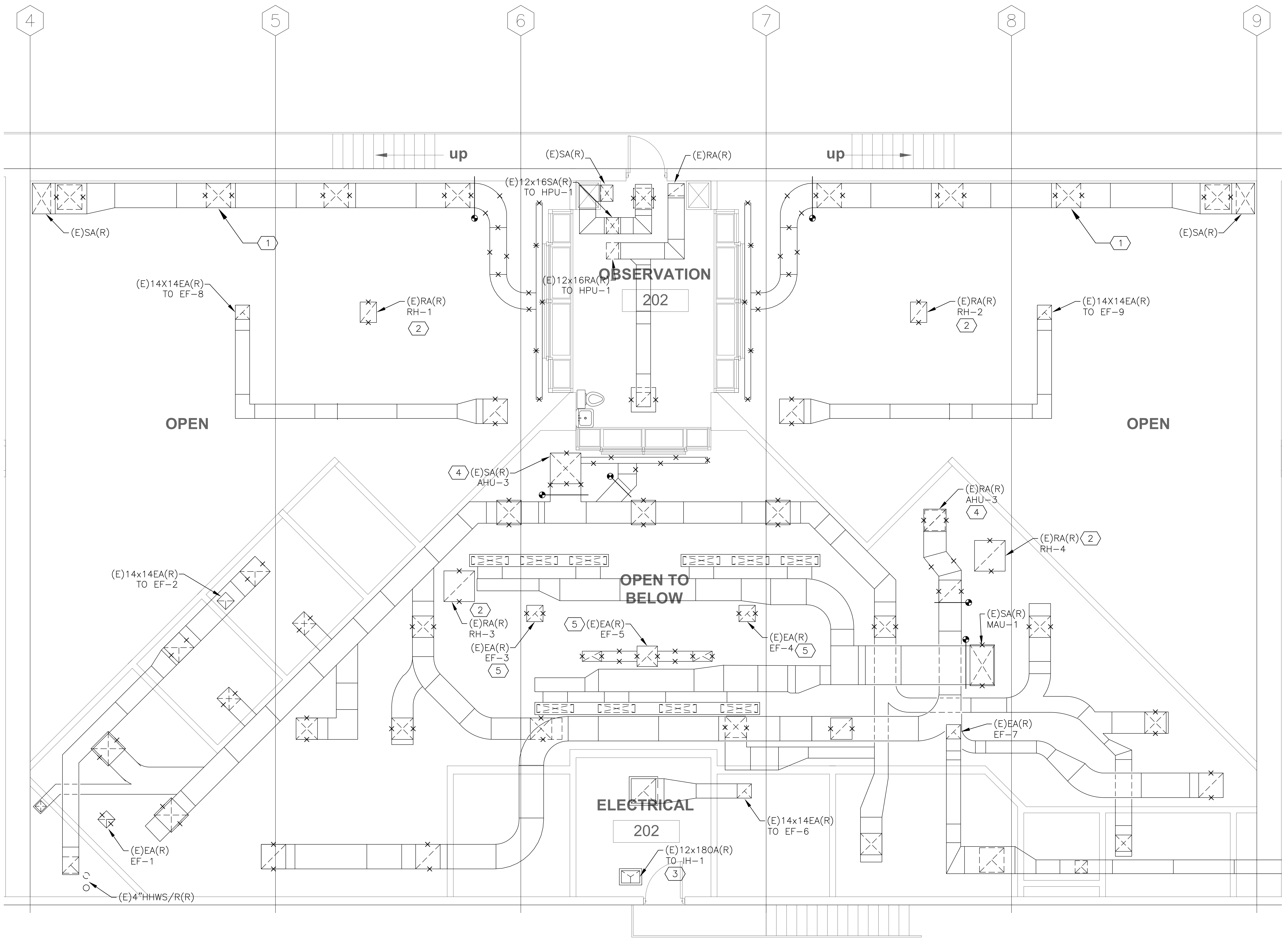
REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M1.2
OF # SHEETS V3



1 MECHANICAL ENLARGED MEZZANINE PLAN–DEMOLITION

SCALE: 1/4" = 1'–0"

GENERAL NOTES

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3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION AND USE OF ALL TOOLS AND MATERIALS HEREINAFTER SPECIFIED.

KEYNOTES

① REMOVE (E) SUPPLY AIR DIFFUSERS AND BRANCH DUCTWORK BACK TO MAIN. CAP DUCTWORK AIR–TIGHT AT MAIN. TYPICAL ALL LOCATIONS.

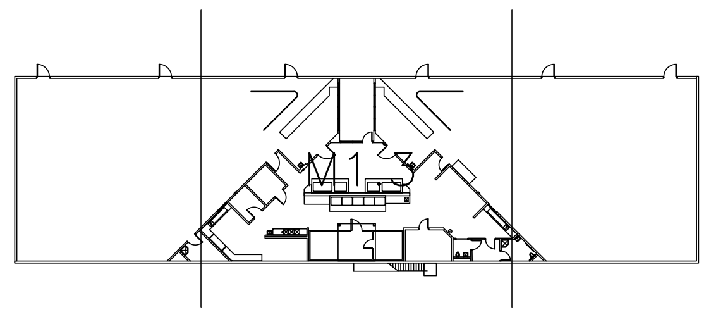
② REMOVE RELIEF AIR DUCTWORK/GRILLE UP THRU ROOF. TYPICAL ALL LOCATIONS.

③ REMOVE OUTSIDE AIR DUCTWORK/GRILLE UP THRU ROOF.

④ REMOVE SUPPLY AND RETURN AIR MAIN DUCTWORK THRU ROOF AS SHOWN.

⑤ REMOVE KITCHEN EXHAUST DUCTWORK THRU ROOF AS SHOWN. TYPICAL ALL LOCATIONS.

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782
Exp. 06-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED MEZZANINE PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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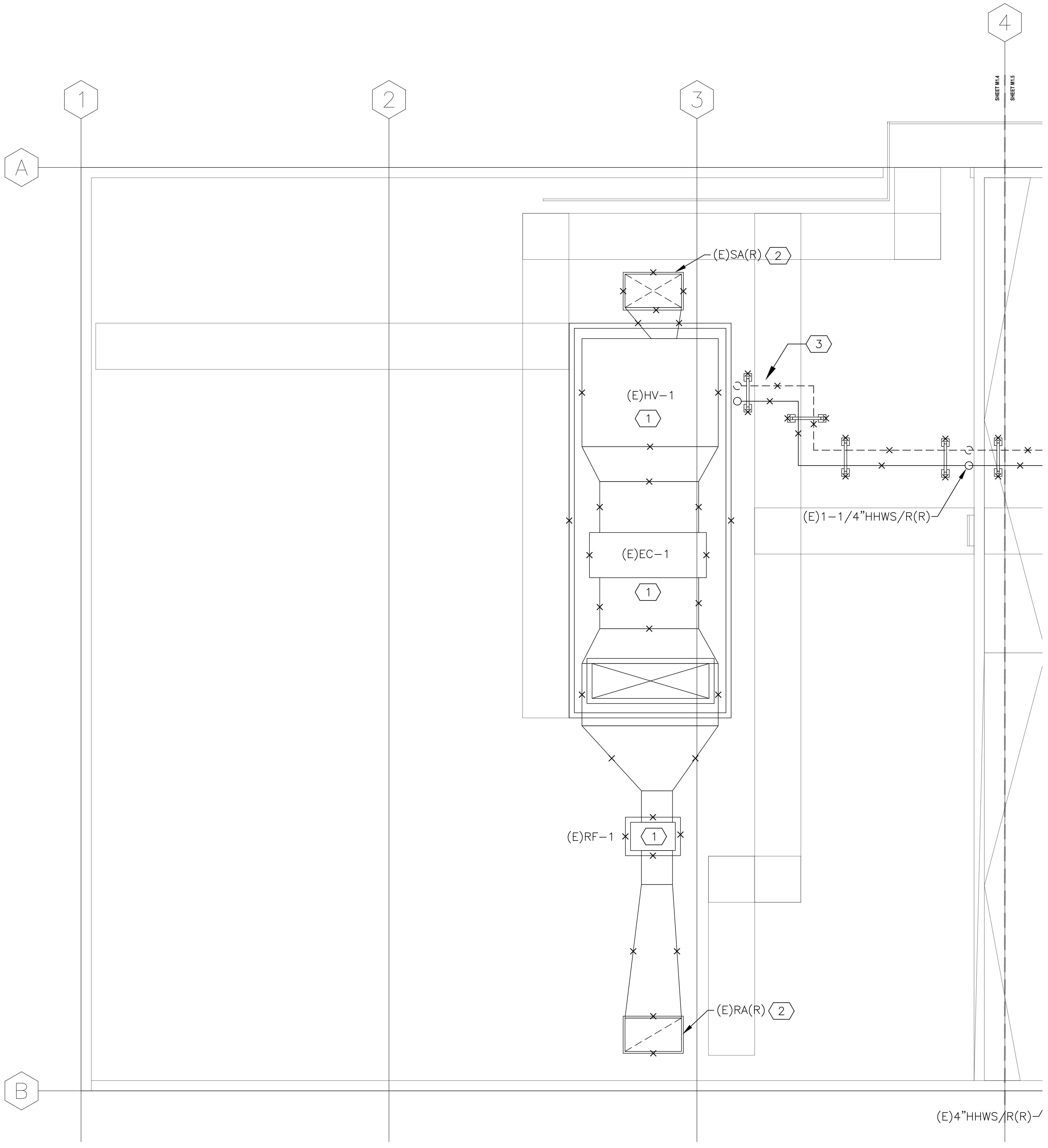
M1.3
OF # SHEETS V3



1 MECHANICAL ENLARGED ROOF PLAN-DEMOLITION

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

GENERAL NOTES

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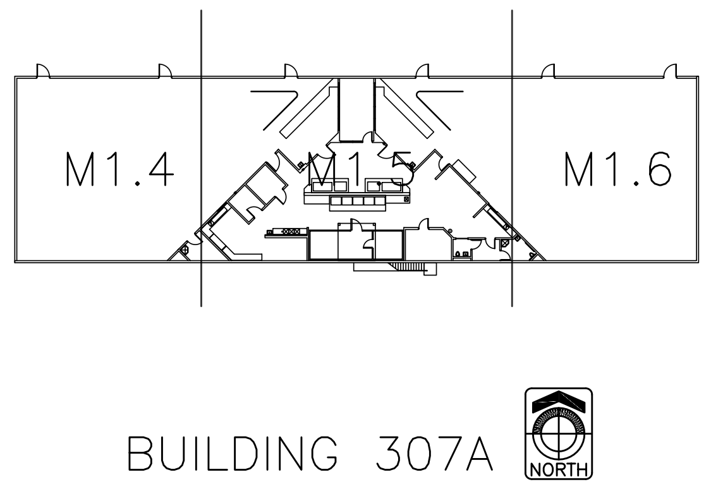
KEYNOTES

1. REMOVE (E) HV, EC, RF INCLUDING ALL SUPPORTS, INTER-CONNECTING DUCTWORK AS SHOWN.
2. REMOVE SA/RA DUCTWORK THRU ROOF INCLUDING CURB. TYPICAL ALL LOCATIONS.
3. REMOVE HHWS/R PIPING AND SUPPORTS FROM HV. SEE M4.1 FOR PIPING DIAGRAM.

KEY PLAN



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No. M31782
Exp. 06-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED ROOF PLAN-DEMOLITION
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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24-014

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DATE: SEPTEMBER 20, 2024

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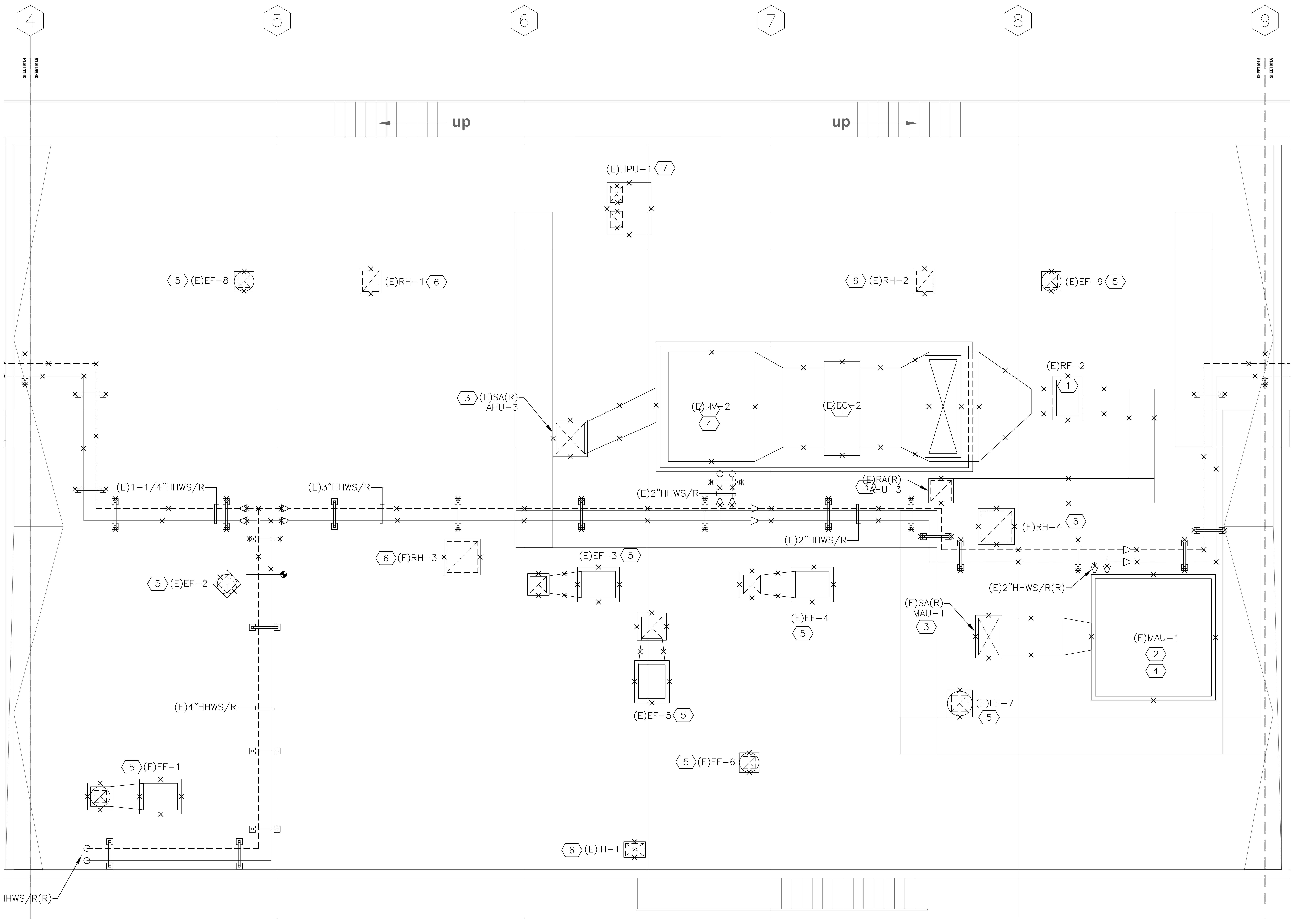
OF # SHEETS
V3



1 MECHANICAL ENLARGED ROOF PLAN–DEMOLITION
SCALE: 1/4" = 1'–0"

GENERAL NOTES

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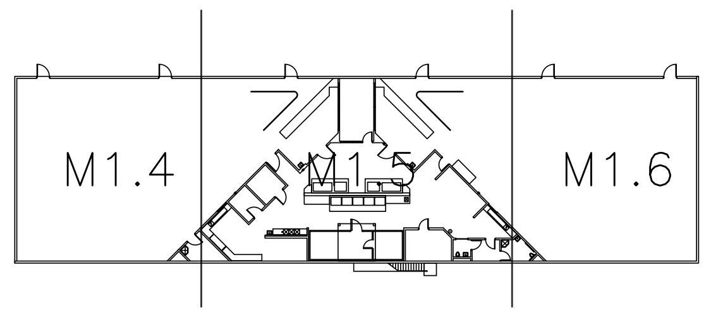
KEYNOTES

1. REMOVE (E) HV, EC, RF INCLUDING ALL SUPPORTS, INTER–CONNECTING DUCTWORK AS SHOWN.
2. REMOVE (E) MAU–1 INCLUDING ALL SUPPORTS, INTER–CONNECTING DUCTWORK AS SHOWN.
3. REMOVE SA/RA DUCTWORK THRU ROOF INCLUDING CURB. TYPICAL ALL LOCATIONS.
4. REMOVE HHWS/R PIPING AND SUPPORTS FROM HV AND MAU. SEE M4.1 FOR PIPING DIAGRAM.
5. REMOVE (E)EF'S INCLUDING ALL INTER–CONNECTING DUCTWORK THRU ROOF AND CURBS. TYPICAL ALL LOCATIONS.
6. REMOVE (E)RH'S AND (E)IH INCLUDING ALL INTER–CONNECTING DUCTWORK THRU ROOF AND CURBS. TYPICAL ALL LOCATIONS.
7. REMOVE (E)HPU INCLUDING SUPPORTS AND SA/RA DUCTWORK THRU ROOF.

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782
Exp. 09–30–2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

MECHANICAL ENLARGED ROOF PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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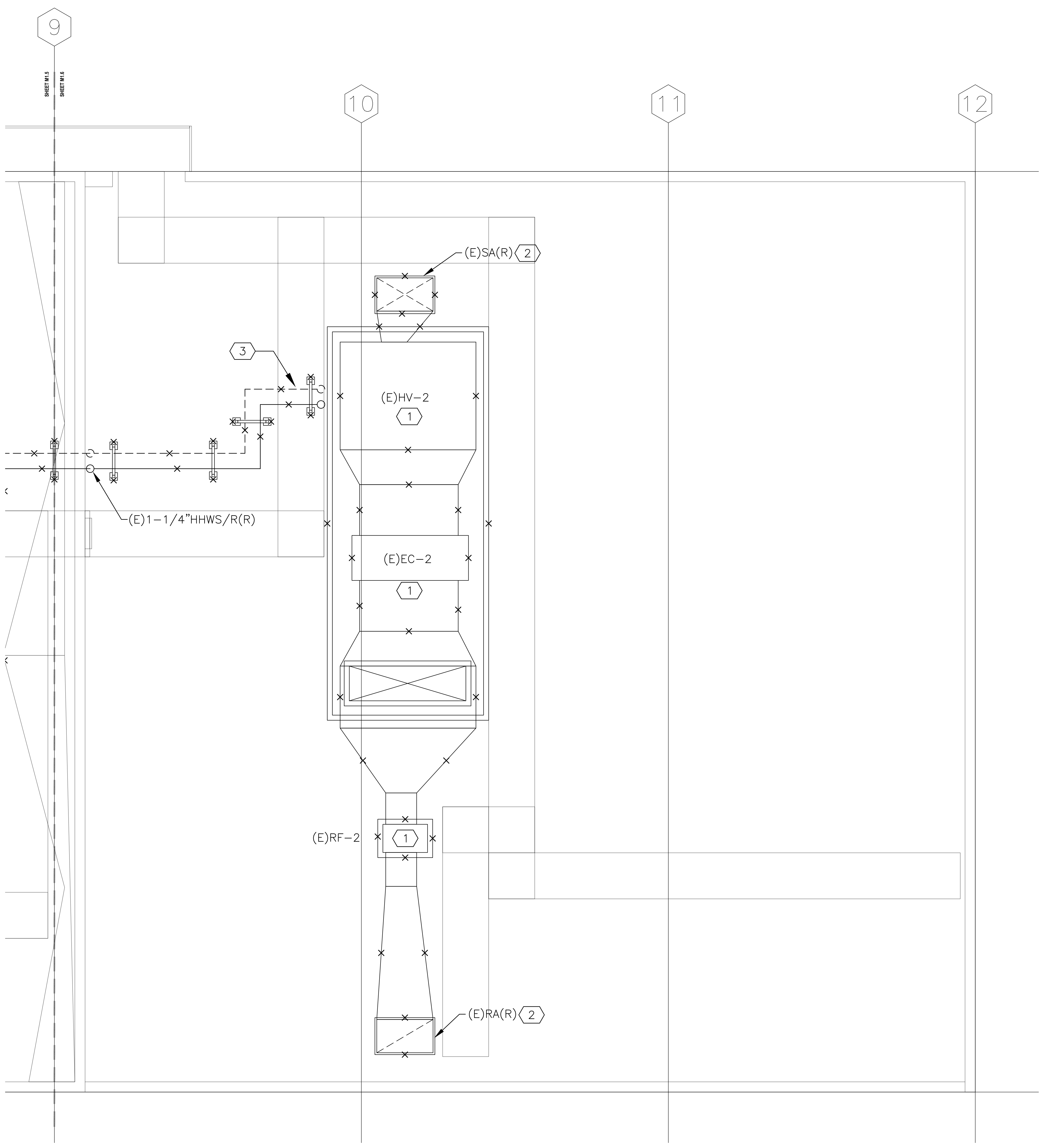
SHEET NUMBER
M1.5
OF # SHEETS V3



1 MECHANICAL ENLARGED ROOF PLAN—DEMOLITION
SCALE: 1/4" = 1'-0"

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KEYNOTES

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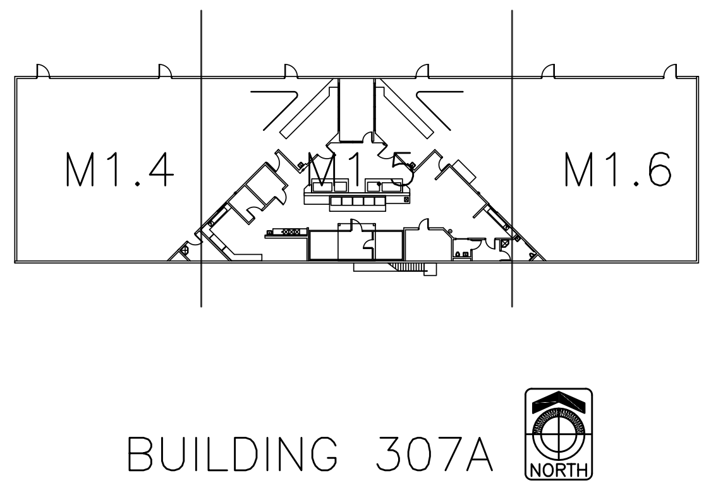
2. REMOVE SA/RA DUCTWORK THRU ROOF INCLUDING CURB. TYPICAL ALL LOCATIONS.
3. REMOVE HHWS/R PIPING AND SUPPORTS FROM HV. SEE M4.1 FOR PIPING DIAGRAM.

KEY PLAN



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Exp. 09-30-2025

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SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

MECHANICAL ENLARGED ROOF PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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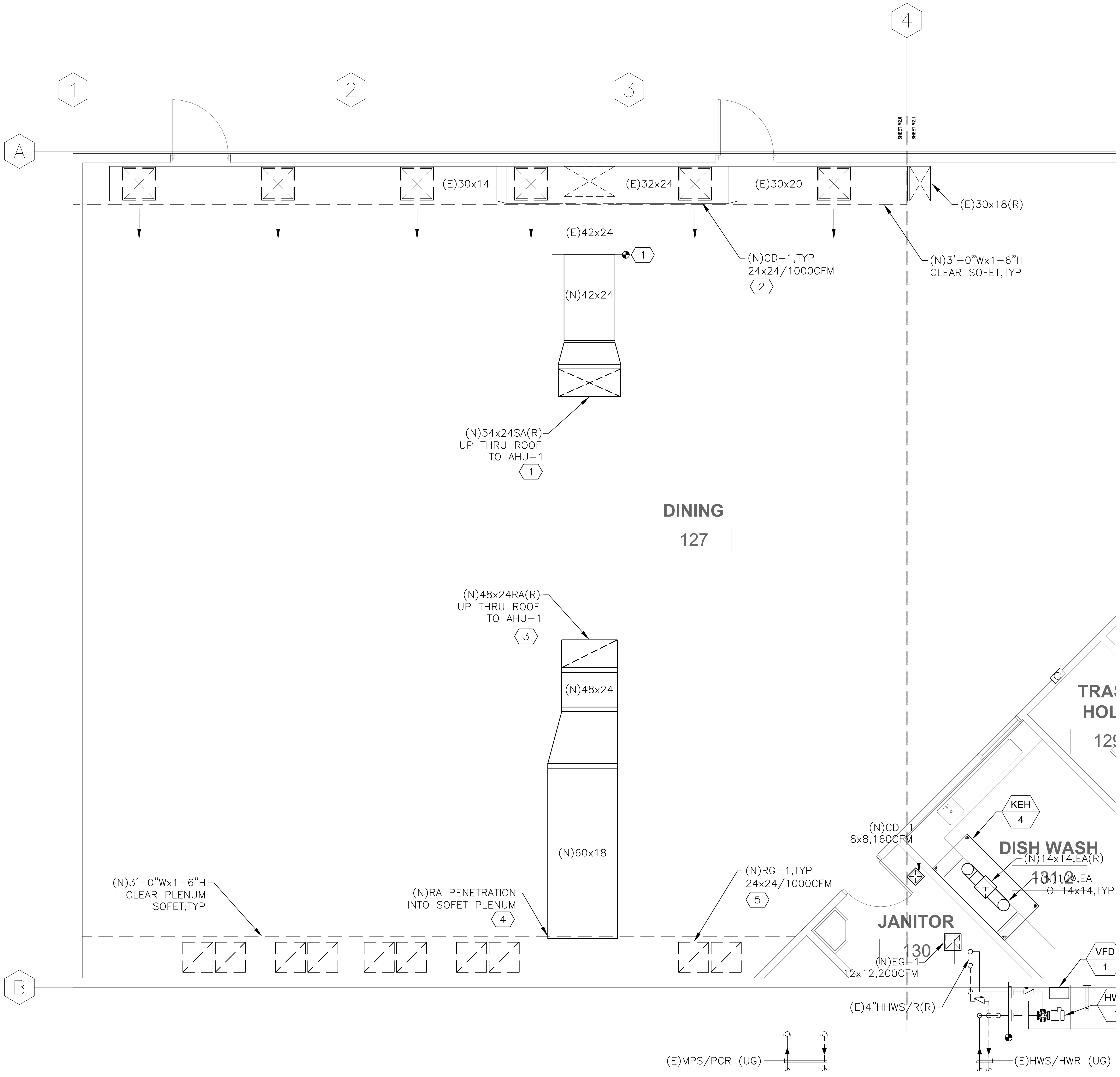
REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M1.6
OF # SHEETS
V3



1 MECHANICAL ENLARGED FLOOR PLAN — NEW

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

GENERAL NOTES

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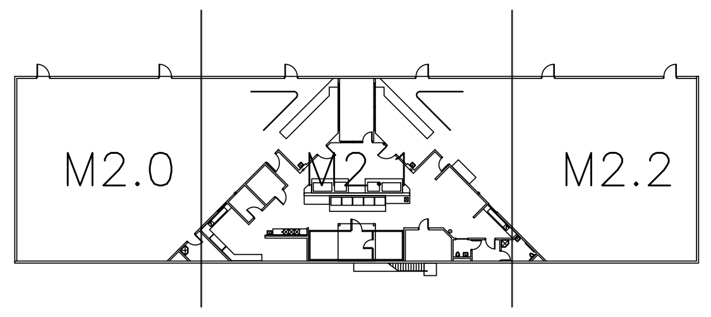
4. SEE M5.2 AND M5.3 FOR DUCTWORK HANGER AND ATTACHMENT TO STRUCTURE.

KEYNOTES

1. INSTALL (N) SA DUCTWORK THRU ROOF AND CONNECT TO (E)DUCTWORK.
2. INSTALL (N) SA DIFFUSERS WITH OBD'S IN (E)SA DUCTWORK AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS.
3. INSTALL (N) RA DUCTWORK THRU ROOF AND ROUTE AS SHOWN.
4. TERMINATE (N)RA DUCTWORK IN RA PLENUM AND SEAL AIR-TIGHT.
5. INSTALL (N) RA GRILLES WITH OBD'S IN RA PLENUM AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

KEY PLAN



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No. M31782
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STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED FLOOR PLAN - NEW

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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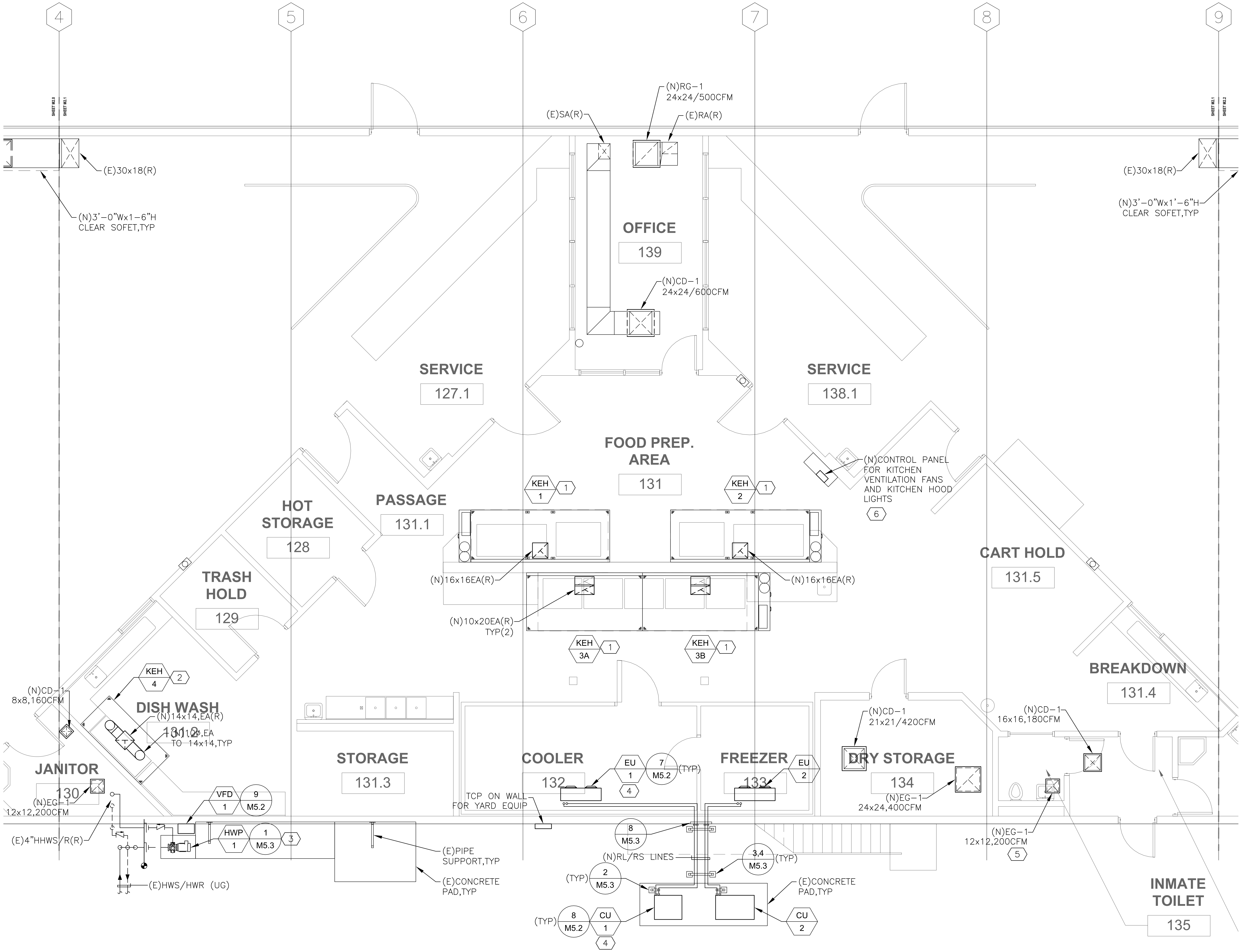
DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M2.0
OF # SHEETS V3



1 MECHANICAL ENLARGED FLOOR PLAN — NEW
SCALE: 1/4" = 1'–0"

GENERAL NOTES

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KEYNOTES

① INSTALL (N) KITCHEN EXHAUST HOODS AND CONNECT (N) EA DUCTWORK TO THE COLLARS OF EACH HOOD. IF POSSIBLE, THE HOOD SUPPORTS AND STAINLESS STEEL SKIRTS MAY BE RE–USED. TYPICAL ALL LOCATIONS. SEE M0.7 FOR KITCHEN HOOD CONFIGURATION DIAGRAMS AND MFR'S HANGER HOOD REQUIREMENTS. ALSO SEE M5.2 FOR UPPER ATTACHMENT OF HOODS TO STRUCTURE.

② INSTALL (N) DISH WASHER EXHAUST HOOD INCLUDING ALL (N) SUPPORTS AND EA DUCTWORK UP THRU ROOF.

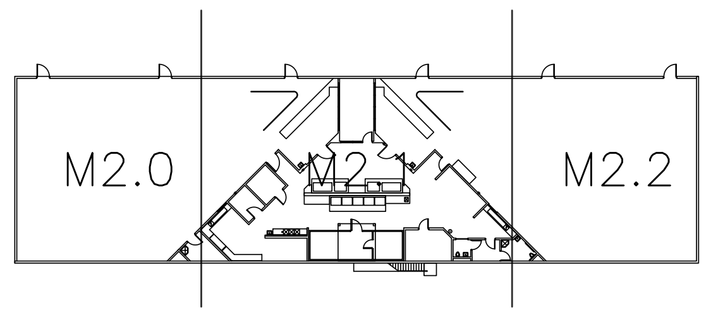
③ INSTALL (N) HEATING WATER DISTRIBUTION PUMP INCLUDING SOV'S AND CHV'S, AND BV'S AS SHOWN.

④ INSTALL (N) CONDENSING UNITS ON (E) CONCRETE PADS AND ROUTE (E)REFRIGERATION PIPING TO (N) EVAPORATOR UNITS AS SHOWN.

⑤ INSTALL (N) SA DIFFUSERS AND EA/RA GRILLES WITH OBD'S IN (E)DUCTWORK AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS. TYPICAL.

⑥ MOUNT (N) MFR'S CONTROL PANEL IN/ON (E) FIRE SUPPRESSION CONTROL PANEL AT 4'–0" AFF. SEE CONTROL DIAGRAMS M6.1 FOR CONTROL ARCHITECTURE AND CONTROL SEQUENCE OF AHU–3, MAU–1 AND KEF'S. SEE FS2.1 FOR INTERFACE TO FIRE SUPPRESSION SYSTEM. 120VAC/1PH/60HZ ELECTRICAL POWER TO CONTROL PANEL BY DIVISION 26.

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782
Exp. 06-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL ENLARGED FLOOR PLAN - NEW

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

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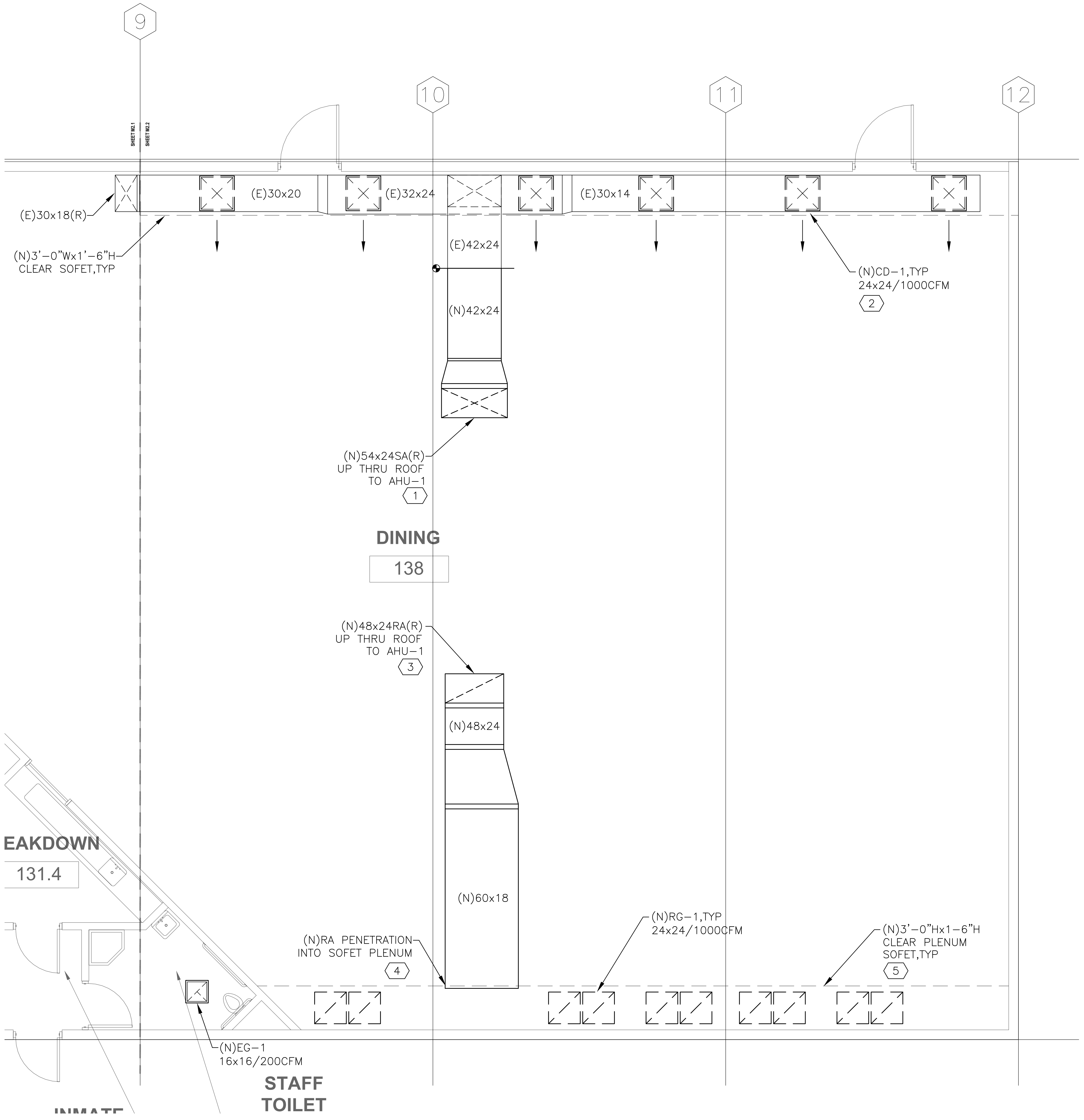
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M2.1
OF # SHEETS V3


9
10
11
12
SHEET M2.1
SHEET M2.2
(E)30x18(R)
(N)3'–0"Wx1'–6"H CLEAR SOFET,TYP
(E)30x20
(E)32x24
(E)30x14
(E)42x24
(N)42x24
(N)CD–1,TYP 24x24/1000CFM
2
(N)54x24SA(R) UP THRU ROOF TO AHU–1
1
DINING
138
(N)48x24RA(R) UP THRU ROOF TO AHU–1
3
(N)48x24
(N)60x18
EAKDOWN
131.4
(N)RA PENETRATION INTO SOFET PLENUM
4
(N)RG–1,TYP 24x24/1000CFM
(N)3'–0"Hx1–6"H CLEAR PLENUM SOFET,TYP
5
(N)EG–1 16x16/200CFM
STAFF TOILET
INMATE

1 MECHANICAL ENLARGED FLOOR PLAN — NEW
SCALE: 1/4" = 1'–0"

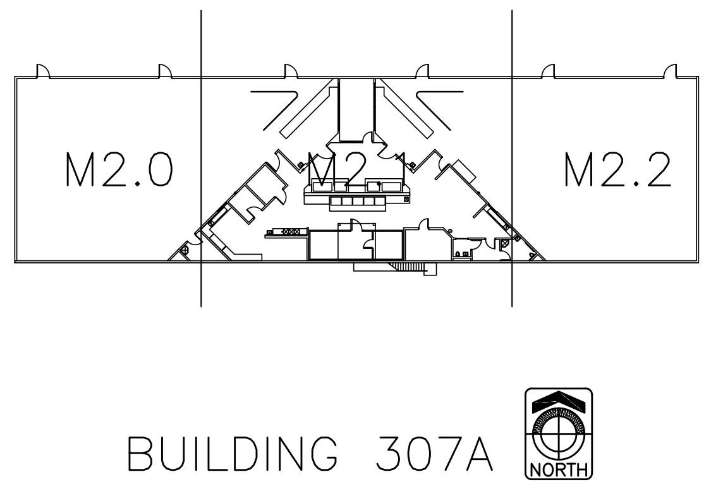
GENERAL NOTES

1. BACKGROUND FOR THIS SHEET IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR CDCR REPRESENTATIVE IF (E) FIELD CONDITIONS DO NOT MATCH THE DRAWINGS.
2. CONTRACTOR SHALL VISIT SITE DURING THE PRE BID CONFERENCE TO BE SCHEDULE BY THE STATE TO DETERMINE ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON DRAWINGS THAT MAY EFFECT HIS BID.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.
4. SEE M5.2 AND M5.3 FOR DUCTWORK HANGER AND ATTACHMENT TO STRUCTURE.

KEYNOTES

1. INSTALL (N) SA DUCTWORK THRU ROOF AND CONNECT TO (E)DUCTWORK.
2. INSTALL (N) SA DIFFUSERS WITH OBD'S IN (E)SA DUCTWORK AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS.
3. INSTALL (N) RA DUCTWORK THRU ROOF AND ROUTE AS SHOWN.
4. TERMINATE (N)RA DUCTWORK IN RA PLENUM AND SEAL AIR–TIGHT.
5. INSTALL (N) RA GRILLES WITH OBD'S IN RA PLENUM AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

KEY PLAN



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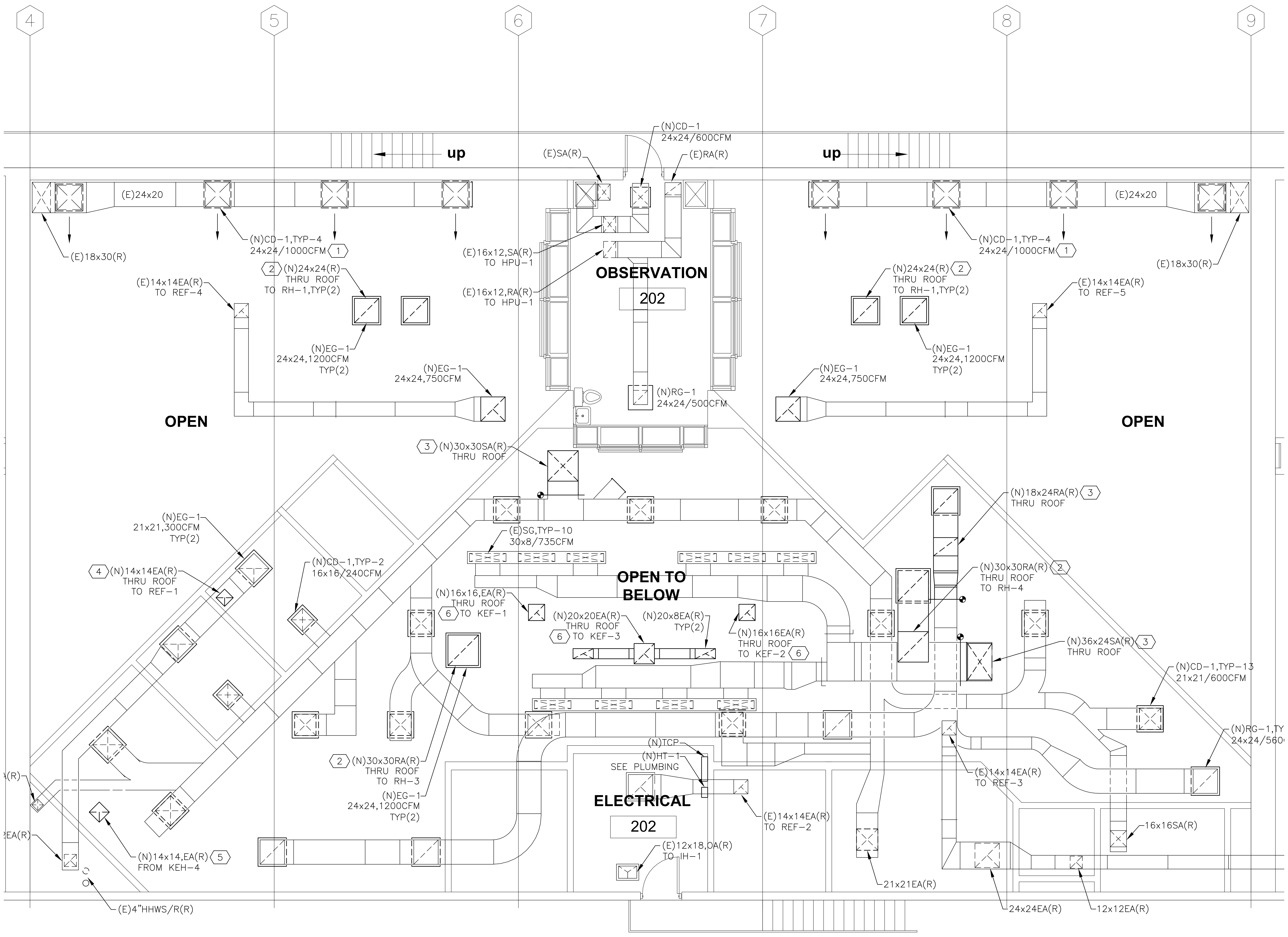

1 MECHANICAL ENLARGED MEZZANINE PLAN – NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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4. SEE M5.2 AND M5.3 FOR DUCTWORK HANGER AND ATTACHMENT TO STRUCTURE.

KEYNOTES

① INSTALL (N) SA DIFFUSERS WITH OBD'S IN (E)SA DUCTWORK AT LOCATIONS SHOWN. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

② INSTALL (N) RELIEF AIR DUCTWORK UP THRU ROOF AND INSTALL GRILLE AT CEILING OPENING TYPICAL ALL LOCATIONS.

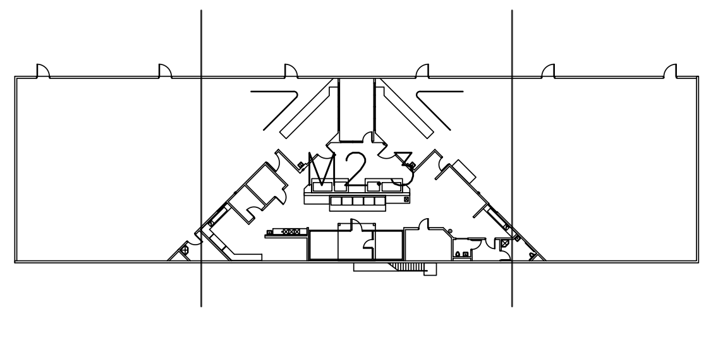
③ INSTALL (N) SUPPLY AND RETURN AIR MAIN DUCTWORK THRU ROOF AS SHOWN.

④ INSTALL (N) EXHAUST AIR DUCTWORK THRU ROOF TO EXHAUST FANS AS SHOWN.

⑤ INSTALL (N) DISH-WASHER EXHAUST AIR DUCTWORK THRU ROOF TO KEF-4 AS SHOWN.

⑥ INSTALL (N) KITCHEN EXHAUST AIR GREASE DUCTWORK THRU ROOF TO KEF'S AS SHOWN.

KEY PLAN



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MECHANICAL ENLARGED MEZZANINE PLAN - NEW
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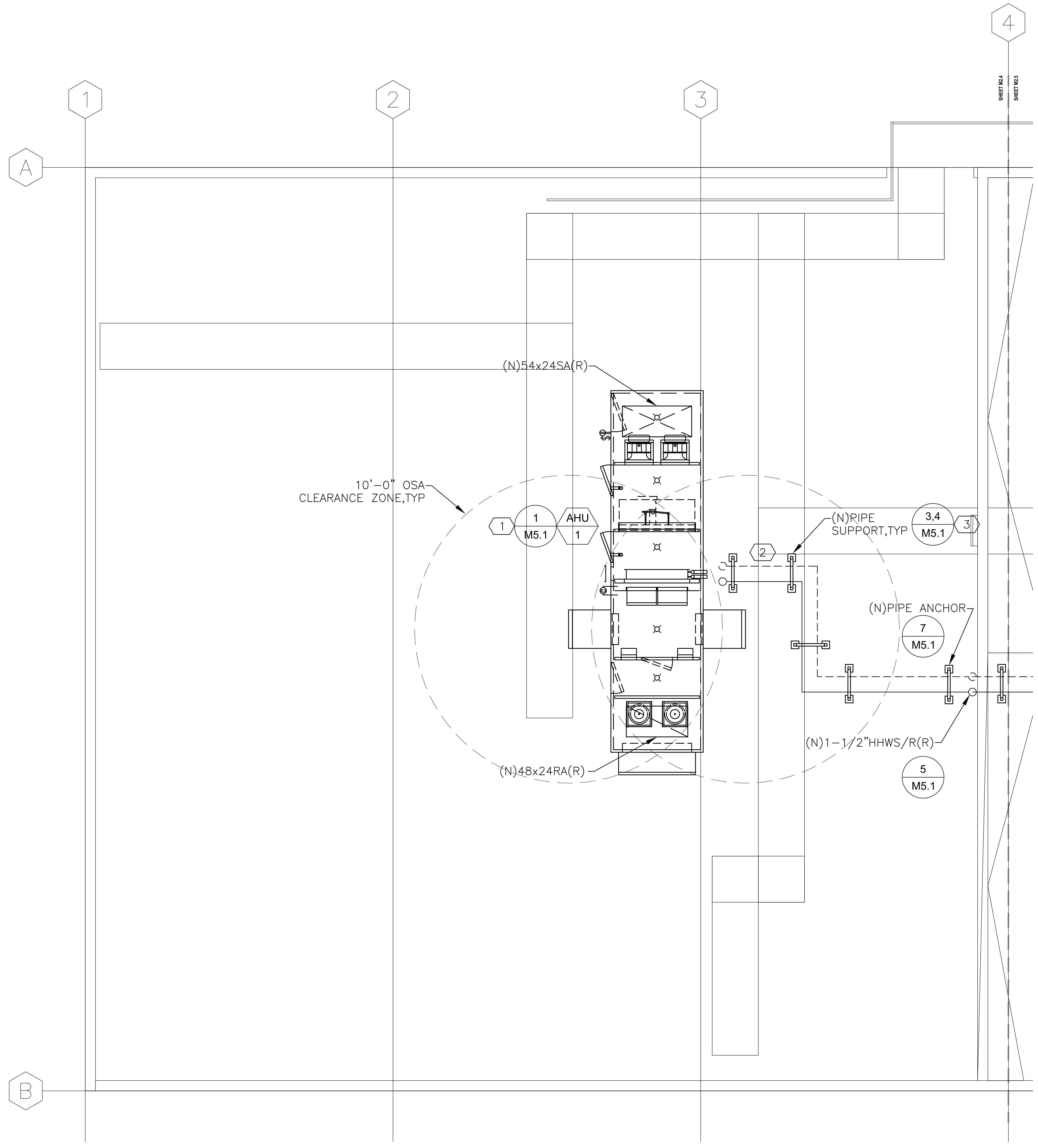

1 MECHANICAL ENLARGED ROOF PLAN — NEW
SCALE: 1/4" = 1'-0"

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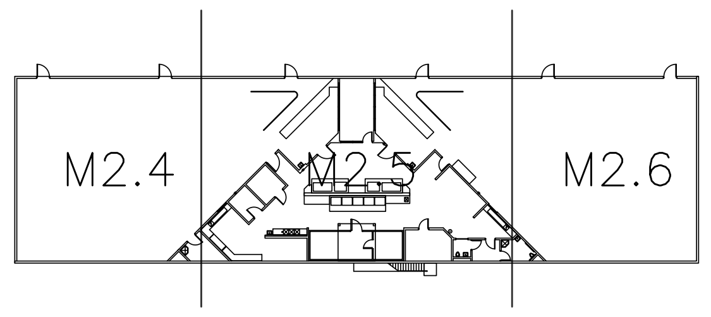
4. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM OUTSIDE AIR INTAKE OF AIR HANDLING UNITS FROM EXHAUST AIR DISCHARGE AND PLUMBING VENTS, TYPICAL.

KEYNOTES

1. INSTALL (N)AHU ON (N)CURB AND ROUTE (N)SA/RA DUCTWORK THRU ROOF. TYPICAL ALL UNITS.
2. INSTALL (N) HHWS/R PIPING AND CONNECT TO (N)AHU. SEE M4.1 FOR PIPING DIAGRAM, CONTROL VALVES, AND COIL CONNECTION DETAILS.
3. INSTALL PIPE SUPPORTS TO ACHIEVE A LEVEL TO 1% SLOPE IN THE DIRECTION OF FLOW SO THE PIPING CAN BE DRAINED IF NECESSARY.

KEY PLAN



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MECHANICAL ENLARGED ROOF PLAN - NEW

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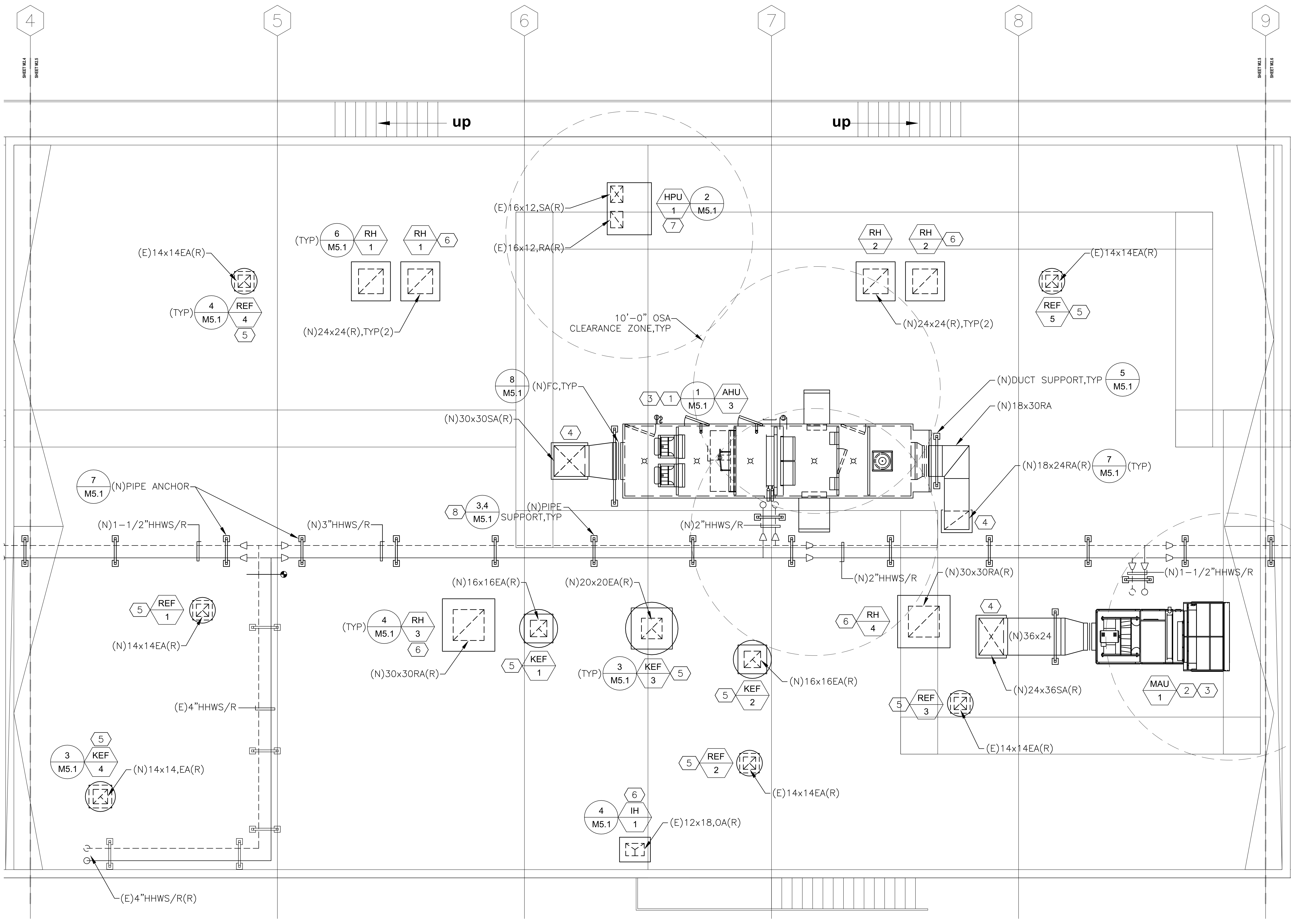

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SCALE: 1/4" = 1'-0"

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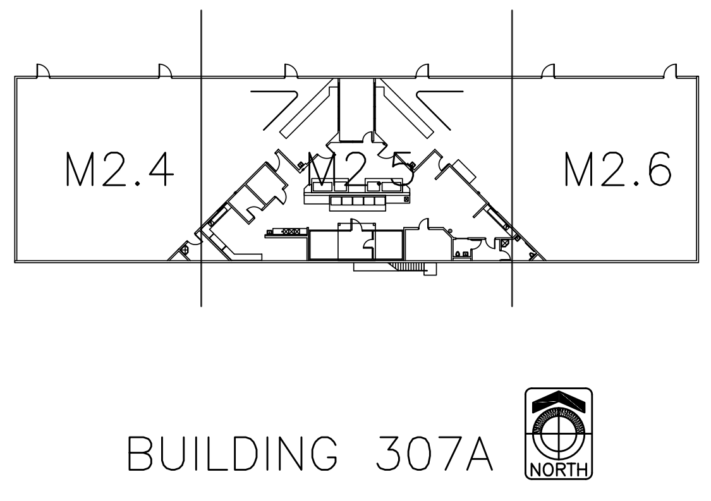
4. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM OUTSIDE AIR INTAKE OF AIR HANDLING UNITS FROM EXHAUST AIR DISCHARGE AND PLUMBING VENTS, TYPICAL.

KEYNOTES

1. INSTALL (N) AHU ON VIBRATION ISOLATION CURB AND ROUTE SA/RA DUCTWORK THRU ROOF. TYPICAL ALL UNITS.
2. INSTALL (N) MAU ON VIBRATION ISOLATION CURB AND ROUTE SA DUCTWORK THRU ROOF.
3. INSTALL (N) HHWS/R PIPING AND SUPPORTS TO (N)AHU AND (N)MAU. SEE M4.1 FOR PIPING DIAGRAM.
4. INSTALL (N) SA DUCTWORK THRU ROOF INCLUDING CURB. TYPICAL ALL LOCATIONS.
5. INSTALL (N) KEF'S AND (N) REF'S INCLUDING ALL INTER-CONNECTING DUCTWORK THRU ROOF AND CURBS. TYPICAL ALL LOCATIONS.
6. INSTALL (N) RH'S AND (N) IH INCLUDING ALL INTER-CONNECTING DUCTWORK THRU ROOF AND CURBS. TYPICAL ALL LOCATIONS.
7. INSTALL (N) HPU INCLUDING SUPPORTS AND SA/RA DUCTWORK THRU ROOF.
8. INSTALL PIPE SUPPORTS TO ACHIEVE A LEVEL TO 1% SLOPE IN THE DIRECTION OF FLOW SO THE PIPING CAN BE DRAINED IF NECESSARY.

KEY PLAN



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MECHANICAL ENLARGED ROOF PLAN - NEW

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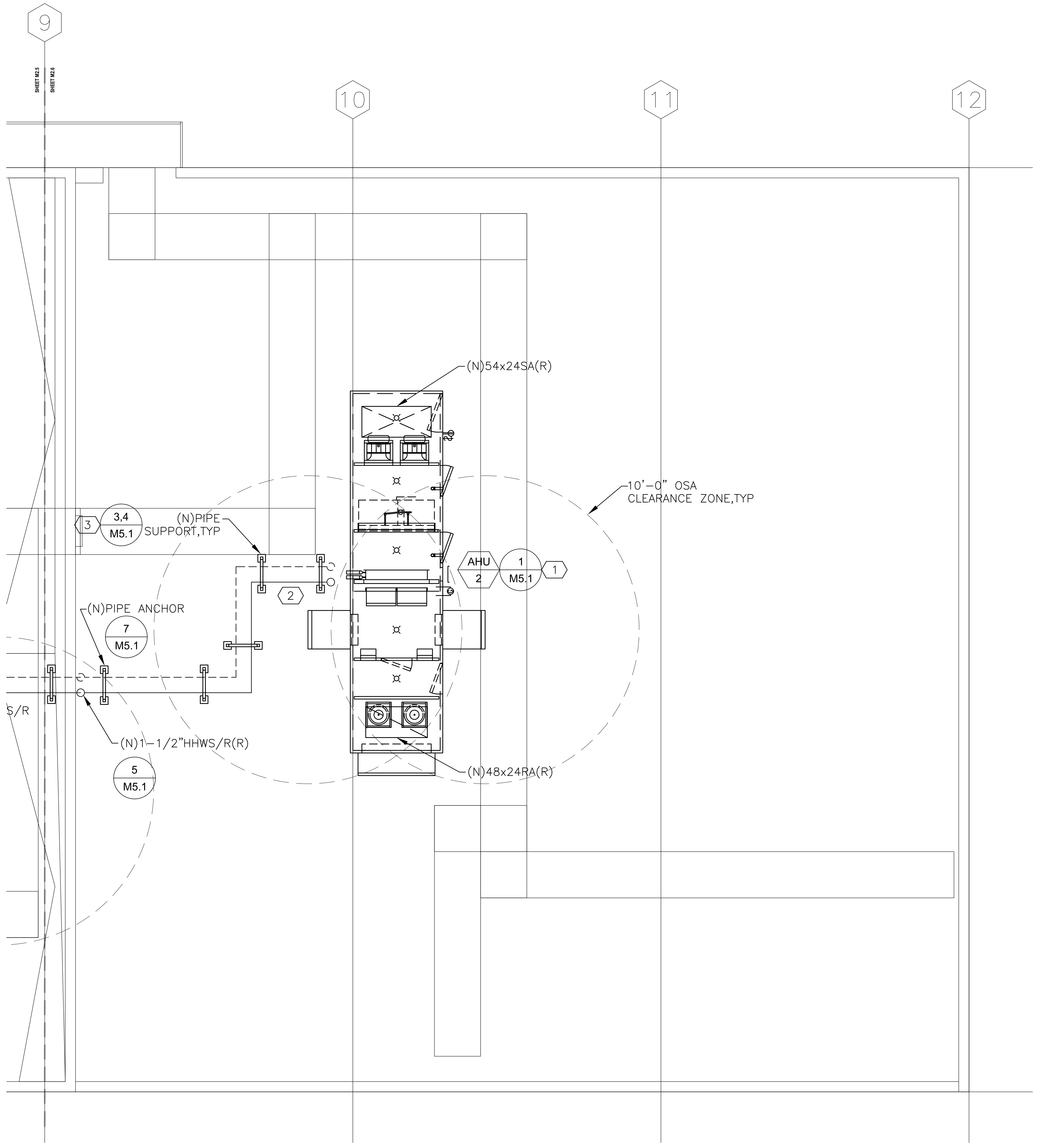

1 MECHANICAL ENLARGED ROOF PLAN – NEW
SCALE: 1/4" = 1'-0"

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KEYNOTES

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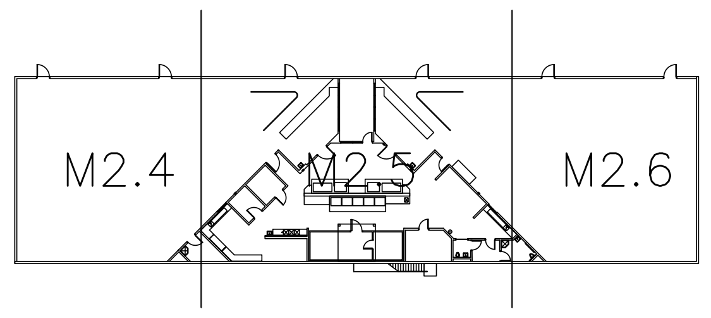
3. INSTALL PIPE SUPPORTS TO ACHIEVE A LEVEL TO 1% SLOPE IN THE DIRECTION OF FLOW SO THE PIPING CAN BE DRAINED IF NECESSARY.

KEY PLAN



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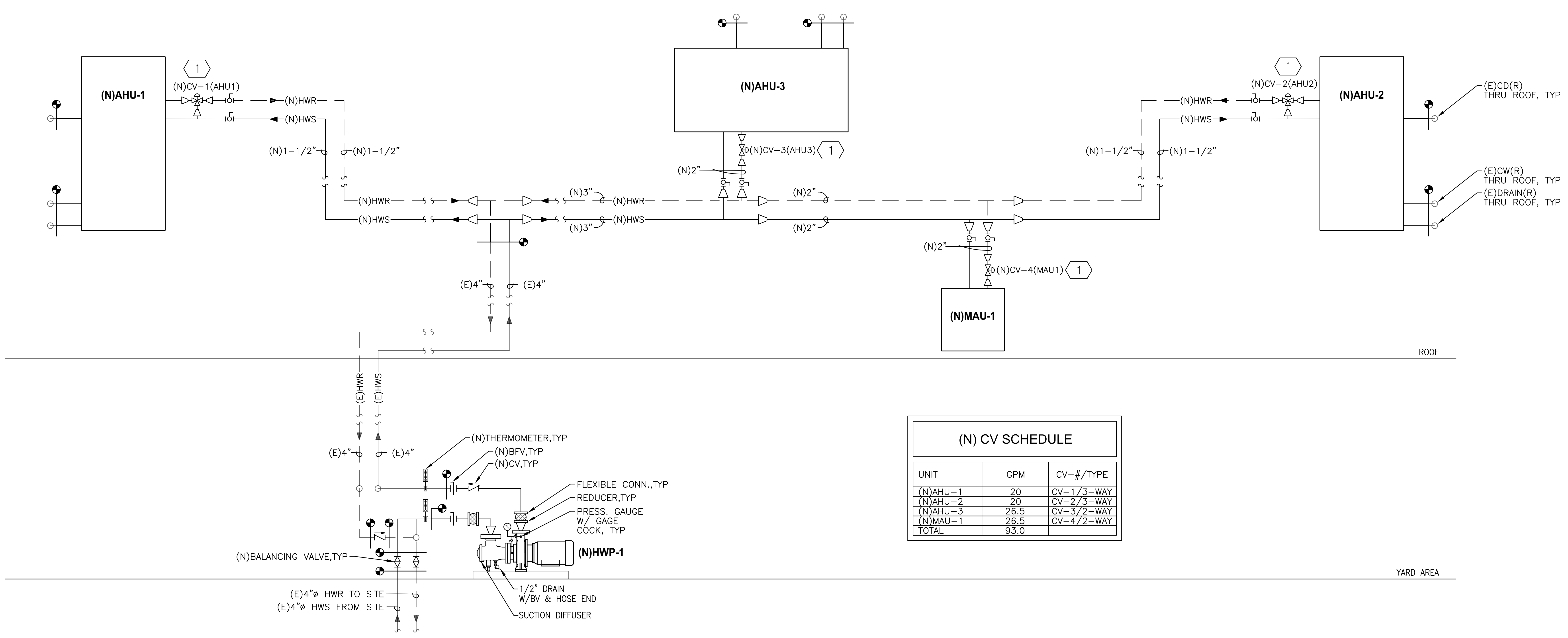
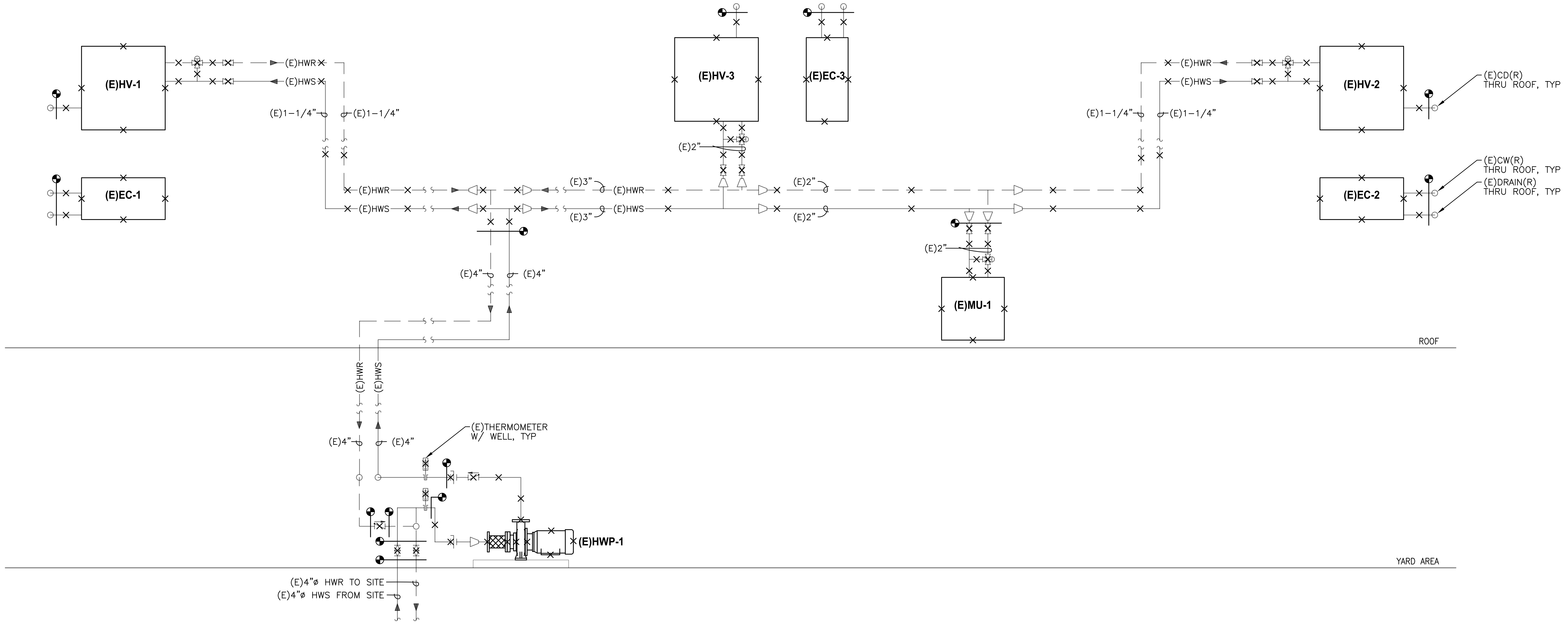


(N) CV SCHEDULE

UNIT	GPM	CV-#/TYPE
(N)AHU-1	20	CV-1/3-WAY
(N)AHU-2	20	CV-2/3-WAY
(N)AHU-3	26.5	CV-3/2-WAY
(N)MAU-1	26.5	CV-4/2-WAY
TOTAL	93.0	

HYDRONIC PIPING DIAGRAM - NEW

SCALE=NONE 2



HYDRONIC PIPING DIAGRAM - DEMOLITION

SCALE=NONE 1

GENERAL NOTES

1. ALL VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
2. PIPE SIZE CHANGES SHALL BE MADE WITH REDUCING FITTINGS.
3. PROVIDE MANUAL AIR VENTS AT ALL PIPING HIGH POINTS TO FACILITATE AIR REMOVAL.
4. ALL CONNECTIONS TO PUMPS, AIR SEPARATORS AND OTHER MECHANICAL EQUIPMENT SHALL BE FLANGED OR WITH UNIONS.
5. PROVIDE REDUCERS WHERE REQUIRED FOR PIPE CONNECTIONS TO CONTROL VALVES, PUMPS & OTHER EQUIPMENT WHETHER SHOWN ON DRAWINGS OR NOT.
6. PUMP CASING PRESSURE TAPS ON PUMP SUCTION AND DISCHARGE MAY BE USED WITH A PRESSURE GAUGE ON EACH IN LIEU OF DIFFERENTIAL PRESSURE GAUGE COCKS AND PLUG COCK.
7. PROVIDE HOSE END CONNECTIONS AT DRAINS.
8. PROVIDE PIPE DRAINS AT ALL PIPING LOW POINTS AND WHERE SHOWN.
9. COORDINATE WITH CONTROLS CONTRACTOR FOR ALL SENSOR LOCATIONS.
10. AFTER ENTIRE SYSTEM HAS BEEN CLEANED AND FLUSHED, AND WATER TREATED, TEST AND BALANCE CONTRACTOR TO BALANCE BUILDING HEATING WATER SYSTEM ACCORDING TO FLOW RATES SHOWN ON PLAN FOR ALL EXISTING AND NEW HVAC EQUIPMENT. REFER TO MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

KEYNOTES

1. INSTALL CONTROL VALVE AT AIR HANDLING EQUIPMENT INCLUDING ALL VALVES AND MEASUREMENT DEVICES. SEE CONTROL VALVE SCHEDULE AND 2-WAY AND 3-WAY COIL PIPING DIAGRAMS 9/M5.3 AND 10/M5.3.

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MECHANICAL PIPIMG DIAGRAMS
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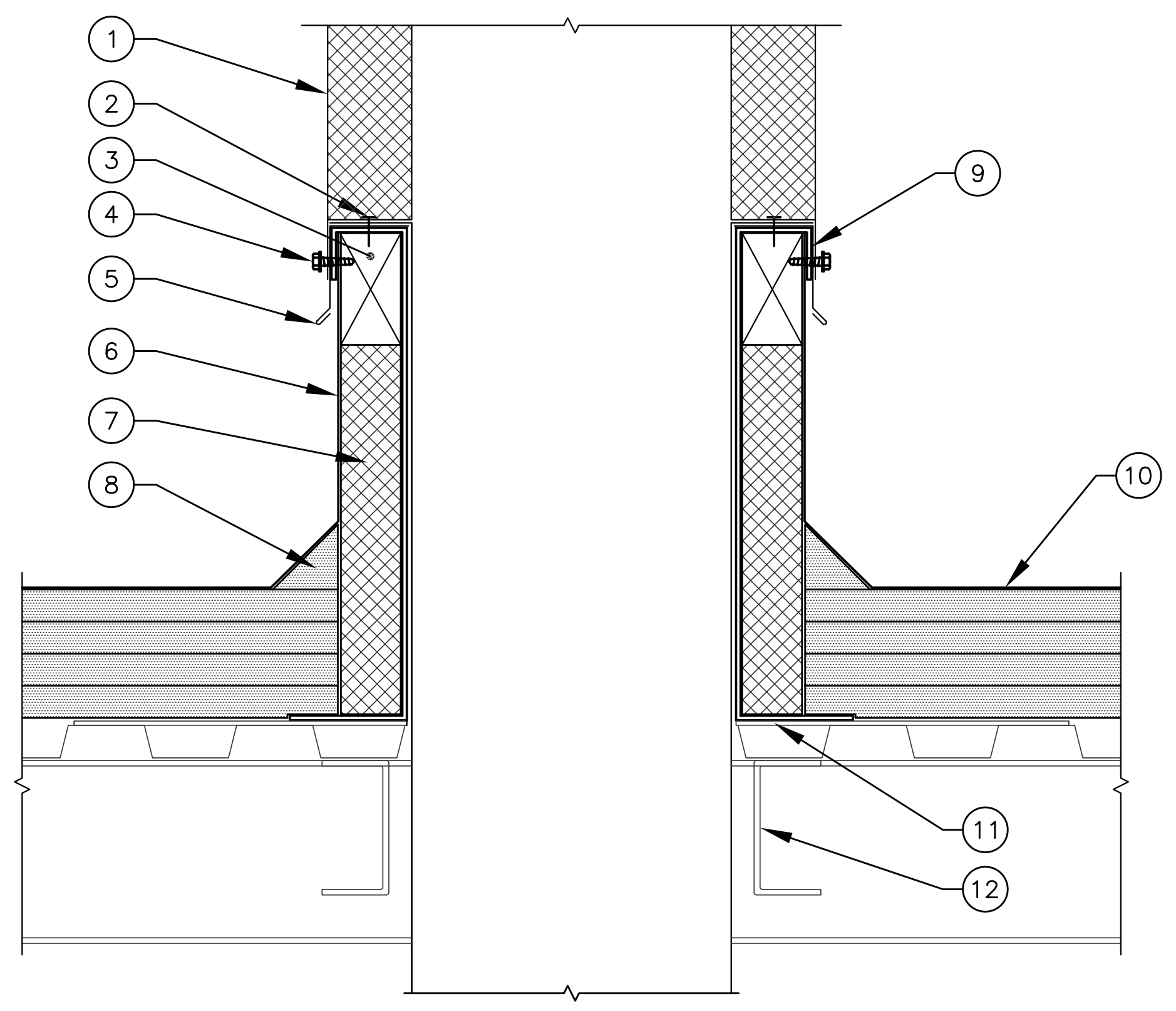
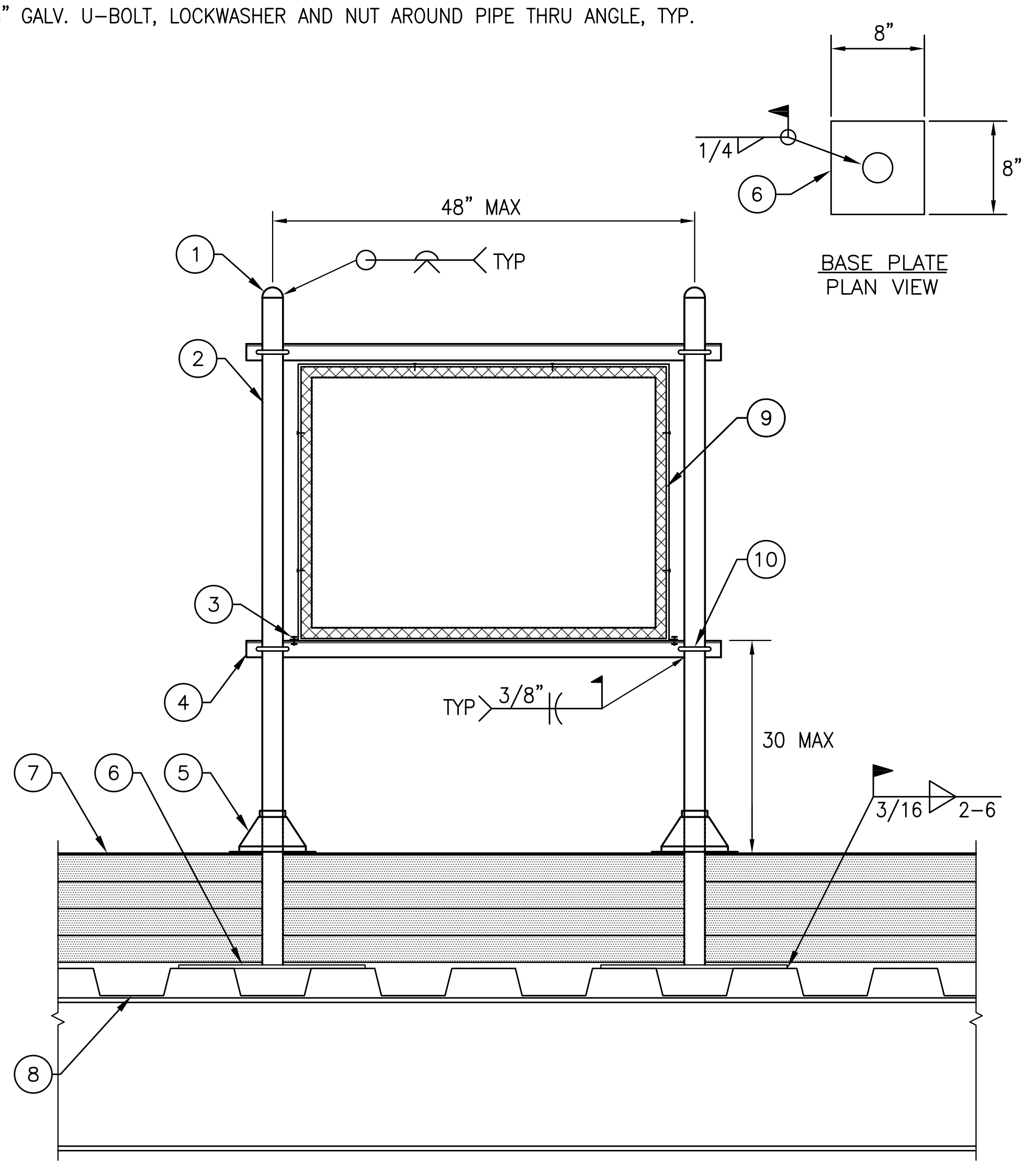
1. INSULATED DUCTWORK WITH METAL JACKET, SEE PLAN FOR SIZE.
2. SECURE DUCTWORK RISER AND EXTENSION TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
3. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
4. SECURE DUCTWORK METAL JACKET TO CURB WITH #12 SHEET METAL SCREW, 2/SIDE MINIMUM EQUALLY SPACED.
5. GALV SM COUNTER FLASHING.
6. ROOFING UP AND UNDER COUNTER FLASHING (ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS).
7. RIGID INSULATION ALL AROUND.
8. CANT STRIP.
9. ROOF CURB BY EQUIPMENT MANUFACTURER. CURB TO BE A MINIMUM OF 8" ABOVE FINISHED ROOF HEIGHT.
10. ROOF–MEMBRANE AND RIGID INSULATION.
11. SEE STRUCTURAL DRAWING S1.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
12. SEE STRUCTURAL DRAWING S1.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



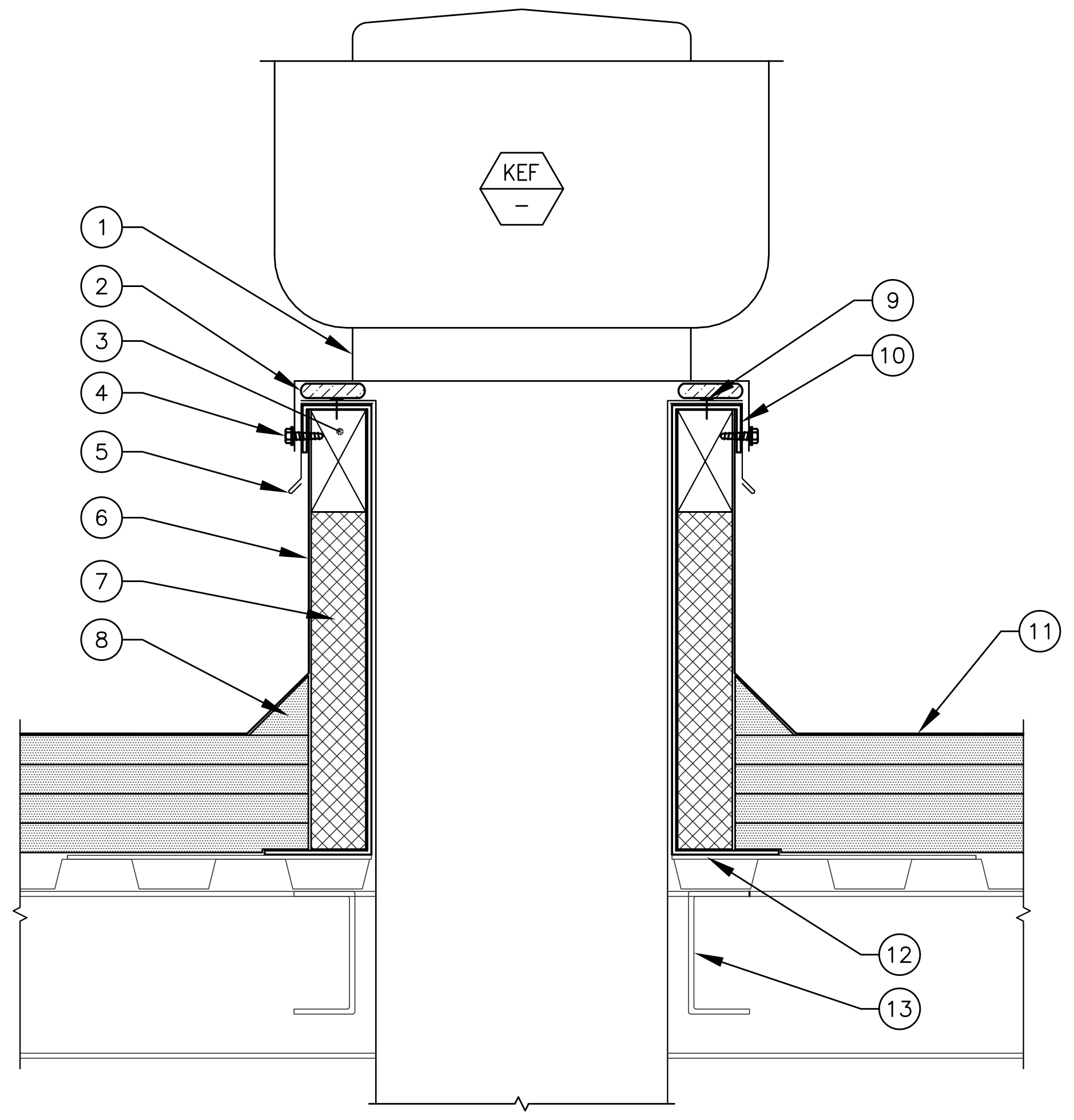
DUCT THRU ROOF MOUNTING — NTS — 7

1. STEEL PIPE CAP, ASTM 234 SAME DIAAMETER/SCHEDULE AS PIPE.
2. 2" STEEL PIPE, ASTM A53, GRADE B, SCH. 40, EA SIDE
3. 2" WIDE x 20 GA. SHEET METAL STRAP, SECURE TO ANGLE WITH 3/8"ø GALV BOLT AND LOCK NUT AT EACH END, TYP. INSTALL #14 GALV. SMS 2 PER SIDE EQUALLY SPACED, TYP.
4. 3"x3"x1/4" ANGLE AT 8'–0" OC MAX, SET AT HEIGHT WITH U–BOLTS THEN WELDED, TYP
5. ROOFING BOOT, SECURE TO PIPE WATERTIGHT WITH BAND CLAMP, ATTACH TO ROOF PER MFR INSTR, SEE ROOFING PLAN.
6. 1/4" STEEL BASE PLATE.
7. ROOF–MEMBRANE AND RIGID INSULATION.
8. (E) METAL DECK OVER STEEL ROOF FRAMING, SEE STRUC. DWGS.
9. INSULATE ALL RECTANGULAR DUCTWORK EXPOSED ON ROOF WITH FLEXIBLE CLOSED CELL ELASTOMERIC FOAM WRAP. PROVIDE ONE LAYER OF K–FLEX ELASTOMERIC 2" THICK INSULATION (R–8) COVERED BY ONE LAYER K–FLEX CLAD AL WITH PSA. SEE PLAN FOR DUCT SIZE, TYP.
10. 3/8" GALV. U–BOLT, LOCKWASHER AND NUT AROUND PIPE THRU ANGLE, TYP.



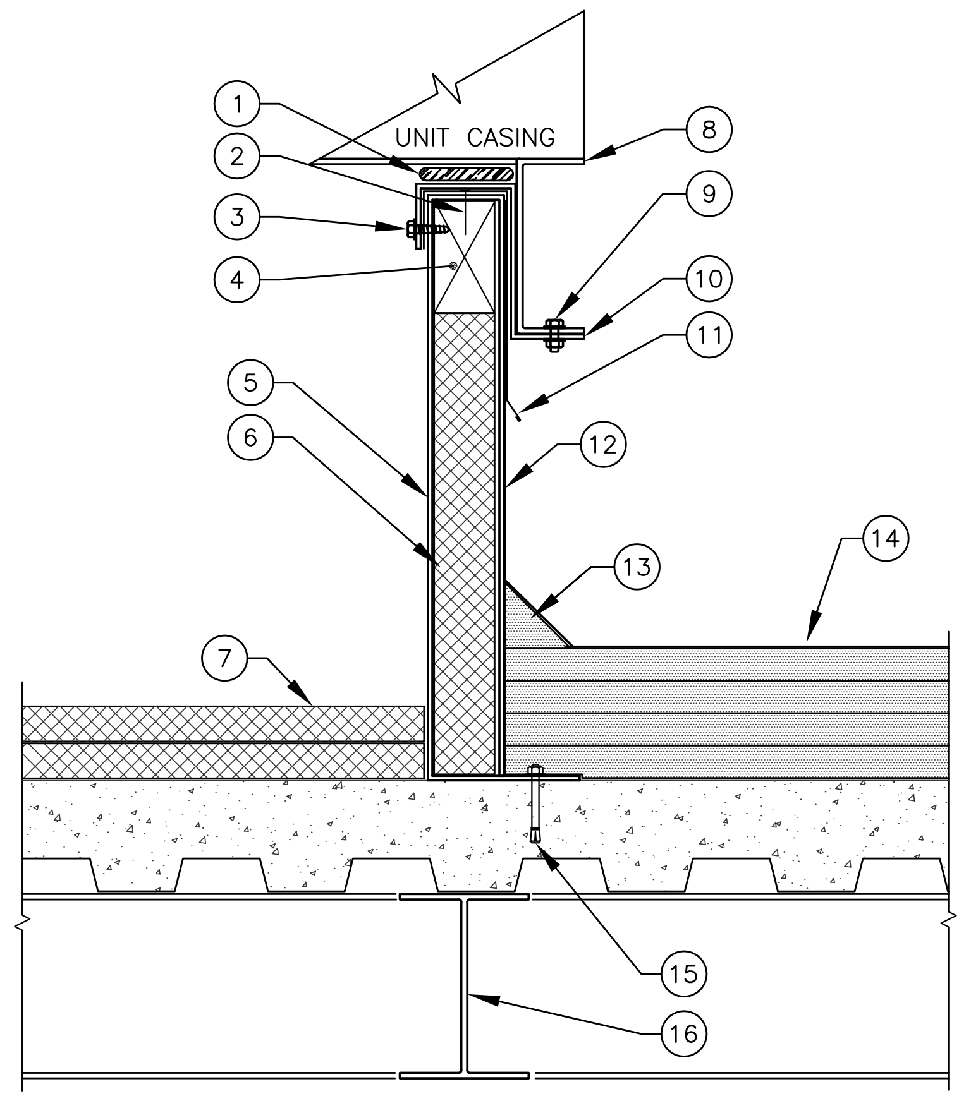
TYP. DUCT SUPPORT ON ROOF — NTS — 5

1. EXHAUST FAN–SEE EQUIPMENT SCHEDULE.
2. CURB SEAL.
3. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
4. SECURE EXHAUST FAN CURB CAP TO CURB WITH #12 SHEET METAL SCREW, 2/SIDE MINIMUM EQUALLY SPACED.
5. GALV SM COUNTER FLASHING.
6. ROOFING UP AND UNDER COUNTER FLASHING (ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS).
7. RIGID INSULATION ALL AROUND.
8. CANT STRIP.
9. SECURE FLASHING TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
10. ROOF CURB BY EQUIPMENT MANUFACTURER. CURB TO BE A MINIMUM OF 8" ABOVE FINISHED ROOF HEIGHT.
11. ROOF–MEMBRANE AND RIGID INSULATION.
12. SEE STRUCTURAL DRAWING S1.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
13. SEE STRUCTURAL DRAWING S1.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



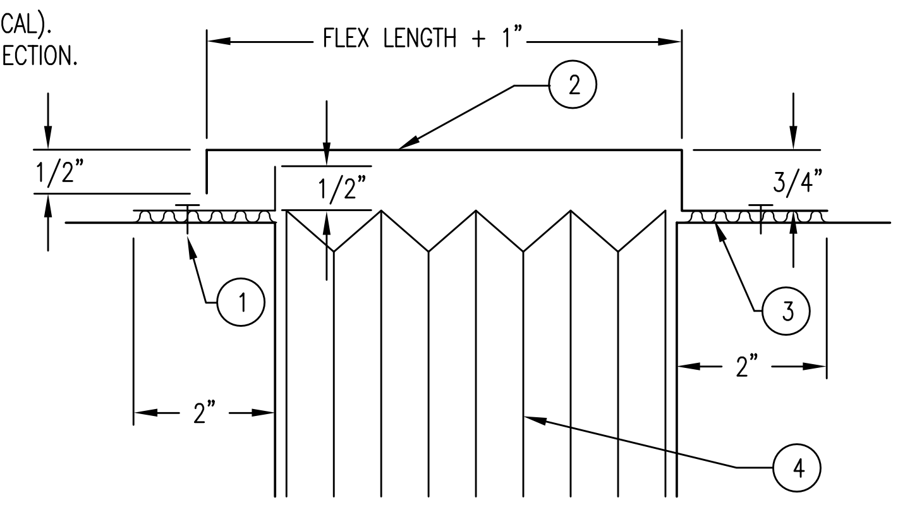
KITCHEN EXHAUST FAN MOUNTING — NTS — 3

1. GASKET TO SEAL CURB AIR AND WATER TIGHT.
2. SECURE FLASHING TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
3. SECURE HOLD DOWNS TO AC UNIT BASE RAIL WITH (4) #12 X 3/4" SM SCREWS, TYP.
4. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
5. 18" HIGH INSULATED ROOF CURB. VERIFY HEIGHT AND SLOPE FOR FINAL CONFIGURATION OF CURB FOR APPLICATION LOCATION.
6. RIGID INSULATION ALL AROUND.
7. (2) LAYERS OF 2" THICK X 3 LB DENSITY FIBERGLASS INSULATING BOARD COVER ROOF INSIDE CURB.
8. UNIT BASE RAIL.
9. AC UNIT HOLD DOWNS 16 GA STEEL, 6" WIDE, TYP. 24" OC ON LONG SIDES AND 12" OC ON SHORT SIDES.
10. SECURE HOLD DOWNS TO AC UNIT BASE RAIL WITH (4) #12 X 3/4" SM SCREWS, TYP.
11. 26 GA GALV SM COUNTERFLASHING.
12. ROOFING UP AND UNDER COUNTER–FLASHING. ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS.
13. CANT STRIP.
14. ROOF–MEMBRANE AND RIGID INSULATION.
15. SEE STRUCTURAL DRAWINGS S2.2 AND S2.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
16. SEE STRUCTURAL DRAWINGS S2.2 AND S2.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



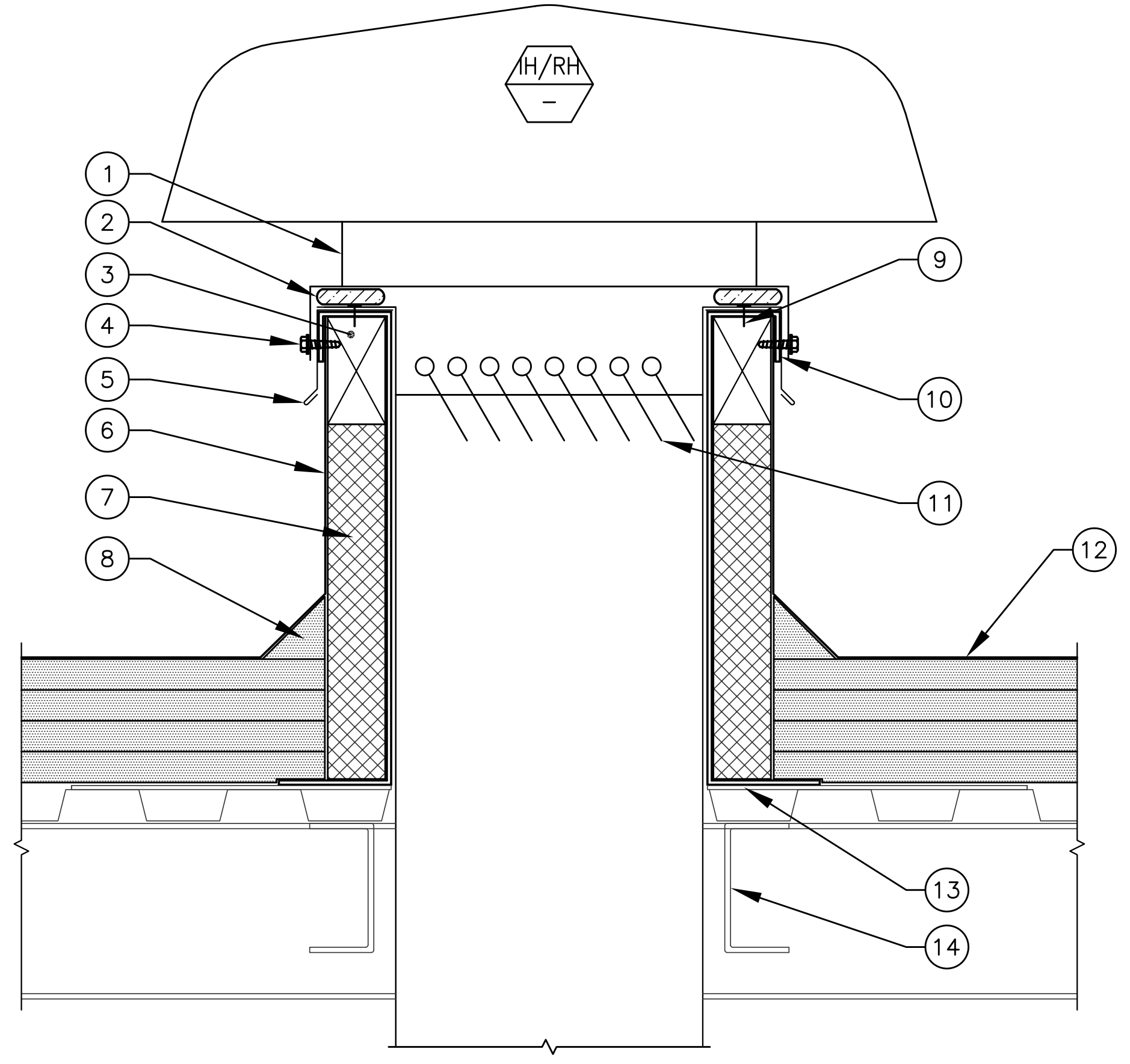
AIR HANDLING UNIT MOUNTING — NTS — 1

1. #12 SHEET METAL SCREWS @ 16" O.C. SET IN MASTIC (TYPICAL).
2. 24 GA. GALVANIZED SHEET METAL (COVER, TOP & SIDES).
3. SEAL W/MASTIC (TYPICAL).
4. FLEXIBLE DUCT CONNECTION.



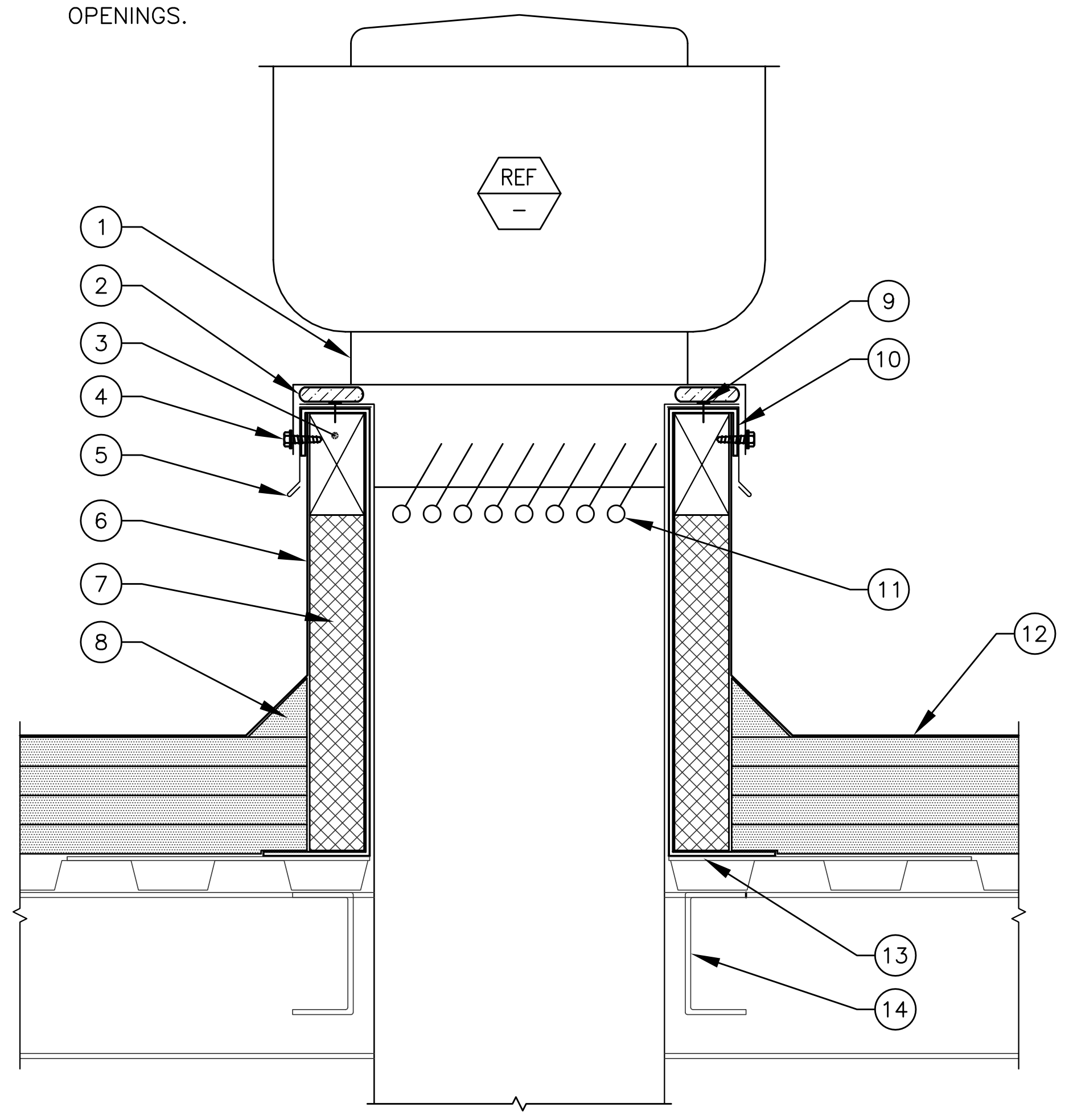
EXTERIOR FLEXIBLE DUCT CONNECTION — NTS — 8

1. EXHAUST FAN–SEE EQUIPMENT SCHEDULE.
2. CURB SEAL.
3. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
4. SECURE EXHAUST FAN CURB CAP TO CURB WITH #12 SHEET METAL SCREW, 2/SIDE MINIMUM EQUALLY SPACED.
5. GALV SM COUNTER FLASHING.
6. ROOFING UP AND UNDER COUNTER FLASHING (ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS).
7. RIGID INSULATION ALL AROUND.
8. CANT STRIP.
9. SECURE FLASHING TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
10. ROOF CURB BY EQUIPMENT MANUFACTURER. CURB TO BE A MINIMUM OF 8" ABOVE FINISHED ROOF HEIGHT.
11. BACK–DRAFT DAMPER BY MANUFACTURER. INTAKE/RELIEF DAMPER DIRECTION OPPOSITE.
12. ROOF–MEMBRANE AND RIGID INSULATION.
13. SEE STRUCTURAL DRAWING S1.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
14. SEE STRUCTURAL DRAWING S1.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



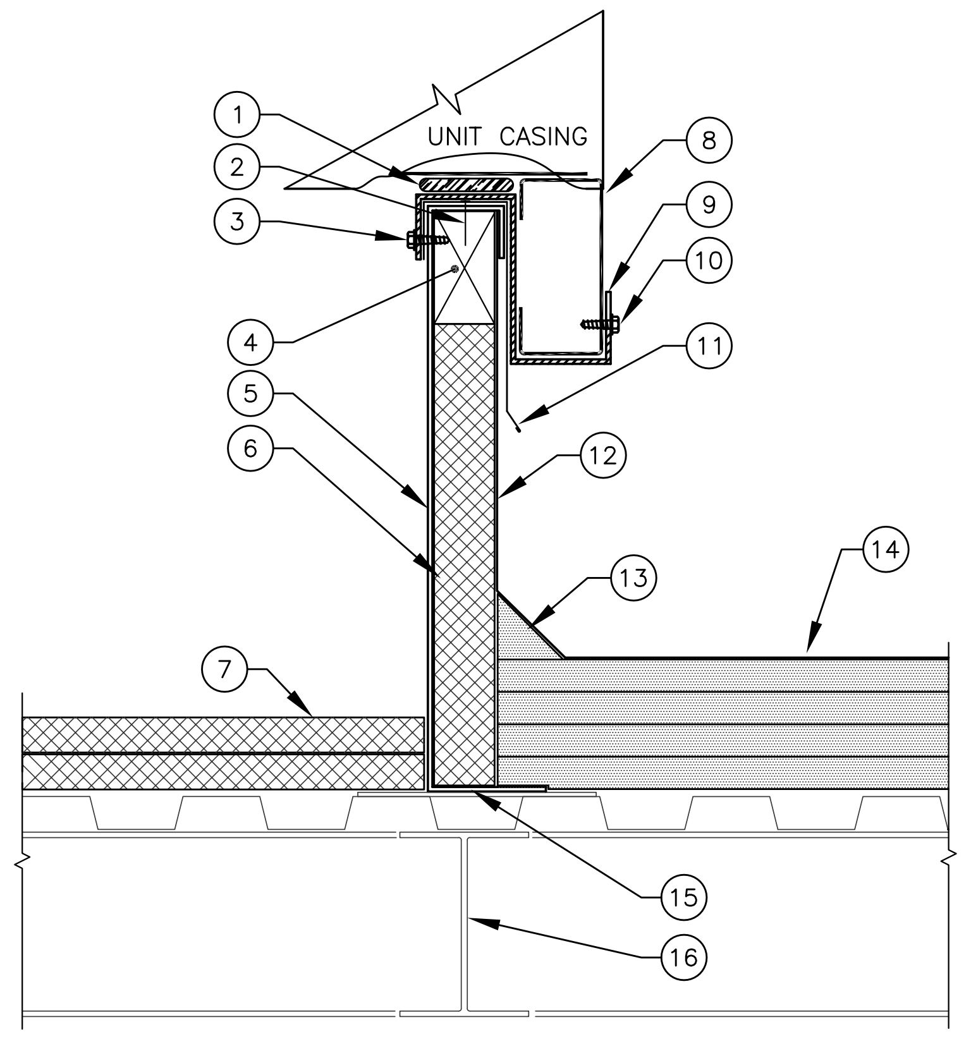
INTAKE/RELIEF HOOD MOUNTING — NTS — 6

1. EXHAUST FAN–SEE EQUIPMENT SCHEDULE.
2. CURB SEAL.
3. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
4. SECURE EXHAUST FAN CURB CAP TO CURB WITH #12 SHEET METAL SCREW, 2/SIDE MINIMUM EQUALLY SPACED.
5. GALV SM COUNTER FLASHING.
6. ROOFING UP AND UNDER COUNTER FLASHING (ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS).
7. RIGID INSULATION ALL AROUND.
8. CANT STRIP.
9. SECURE FLASHING TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
10. ROOF CURB BY EQUIPMENT MANUFACTURER. CURB TO BE A MINIMUM OF 8" ABOVE FINISHED ROOF HEIGHT.
11. BACK–DRAFT DAMPER.
12. ROOF–MEMBRANE AND RIGID INSULATION.
13. SEE STRUCTURAL DRAWING S1.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
14. SEE STRUCTURAL DRAWING S1.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



ROOF EXHAUST FAN MOUNTING — NTS — 4

1. GASKET TO SEAL CURB AIR AND WATER TIGHT.
2. SECURE FLASHING TO CURB WITH GALV. RING–SHANK NAILS 12" O.C. EQUALLY SPACED.
3. SECURE HOLD DOWNS TO AC UNIT BASE RAIL WITH (4) #12 X 3/4" SM SCREWS, TYP.
4. FIRE–RETARDANT TREATED WOOD NAILER, TYPICAL.
5. 18" HIGH INSULATED ROOF CURB. VERIFY HEIGHT AND SLOPE FOR FINAL CONFIGURATION OF CURB FOR APPLICATION LOCATION.
6. RIGID INSULATION ALL AROUND.
7. (2) LAYERS OF 2" THICK X 3 LB DENSITY FIBERGLASS INSULATING BOARD COVER ROOF INSIDE CURB.
8. UNIT BASE RAIL.
9. AC UNIT HOLD DOWNS 16 GA STEEL, 6" WIDE, TYP. 24" OC ON LONG SIDES AND 12" OC ON SHORT SIDES.
10. SECURE HOLD DOWNS TO AC UNIT BASE RAIL WITH (4) #12 X 3/4" SM SCREWS, TYP.
11. 26 GA GALV SM COUNTERFLASHING.
12. ROOFING UP AND UNDER COUNTER–FLASHING. ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS.
13. CANT STRIP.
14. ROOF–MEMBRANE AND RIGID INSULATION.
15. SEE STRUCTURAL DRAWING S1.3 FOR ATTACHMENT OF CURB TO STRUCTURE.
16. SEE STRUCTURAL DRAWING S1.3 FOR STRUCTURAL SUPPORT OF EQUIPMENT AND OPENINGS.



HEAT PUMP/MAKE-UP AIR UNIT MOUNTING — NTS — 2

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL DETAILS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

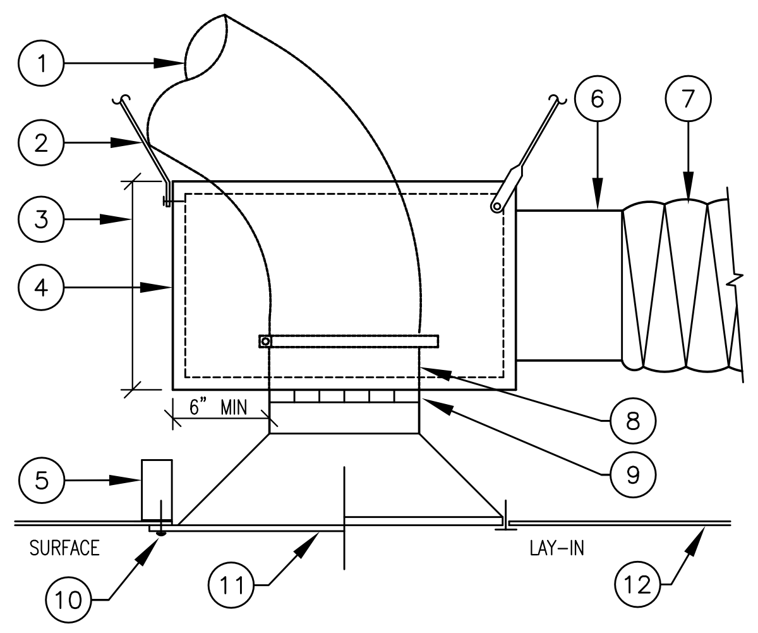
CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\M5.1 MECH DETAILS.DWG

REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M5.1
OF # SHEETS V3



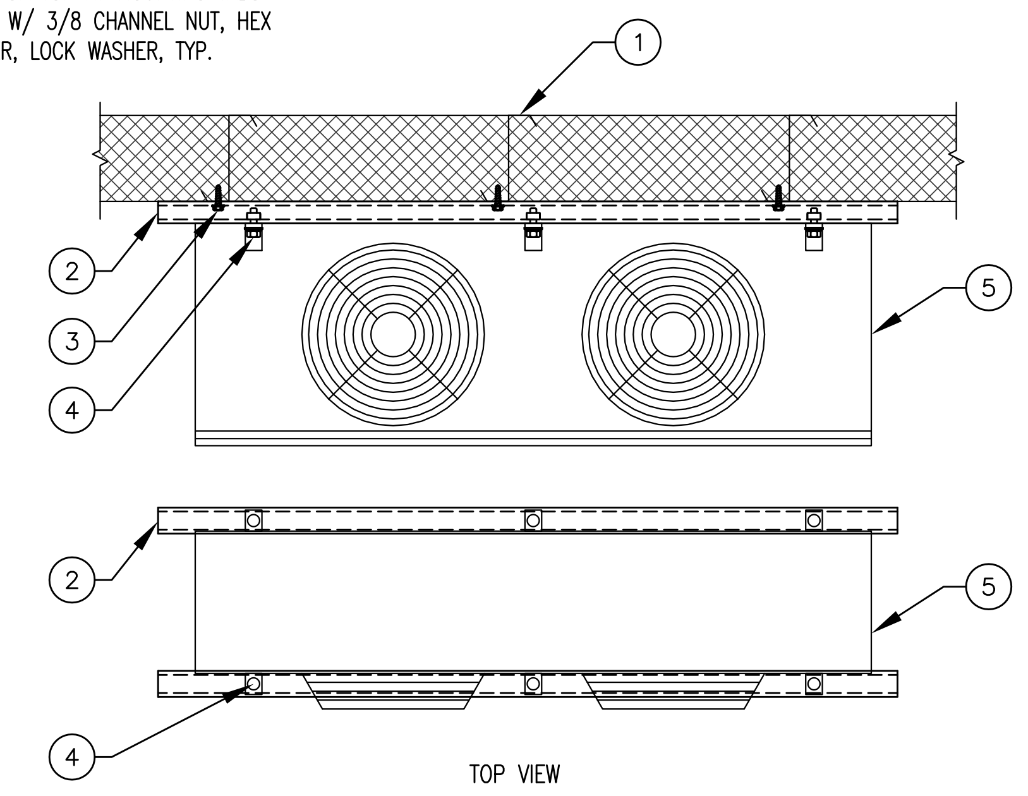
1. ℄ OF ELBOW RADIUS MINIMUM 150% OF DUCT DIAMETER.
2. SUPPORT W/(4) 1-1/2 x 24 GA SHEET METAL STRAPS. SECURE STRAPS TO PLENUM & STRUCTURE ABOVE.
3. (BRANCH SIZE + 2") X (NECK SIZE +2")
4. CUSHIONHEAD BOX WITH MINIMUM 1" ACOUSTIC LINING.
5. CEILING FRAMING.
6. METAL SLEEVE OR SPIN-IN FITTING.
7. INSULATED FLEXIBLE AIR DUCT, SEE MECHANICAL PLAN FOR SIZE.
8. TRANSITION (AS REQUIRED).
9. AIR CONTROL GRID SET AT 90° TO AIR STREAM OR PLANE OF ELBOW. (WHERE APPLICABLE)
10. REGISTER SCREW, SECURE PER DIFFUSER MNFG. REQUIREMENTS.
11. TYPICAL SQUARE NECK SUPPLY, RETURN OR EXHAUST AIR DIFFUSER.
12. FINISHED CEILING, SEE ARCH. DRAWINGS.

NOTES:
1. WHERE FULL 150% ℄ RADIUS IS NOT POSSIBLE. THE CUSHIONHEAD IS REQ'D.
2. VERIFY CEILING TYPE, PROVIDE APPROPRIATE DIFFUSER FRAME & INSTALLATION.

DIFFUSER/GRILLE DETAIL

NTS 10

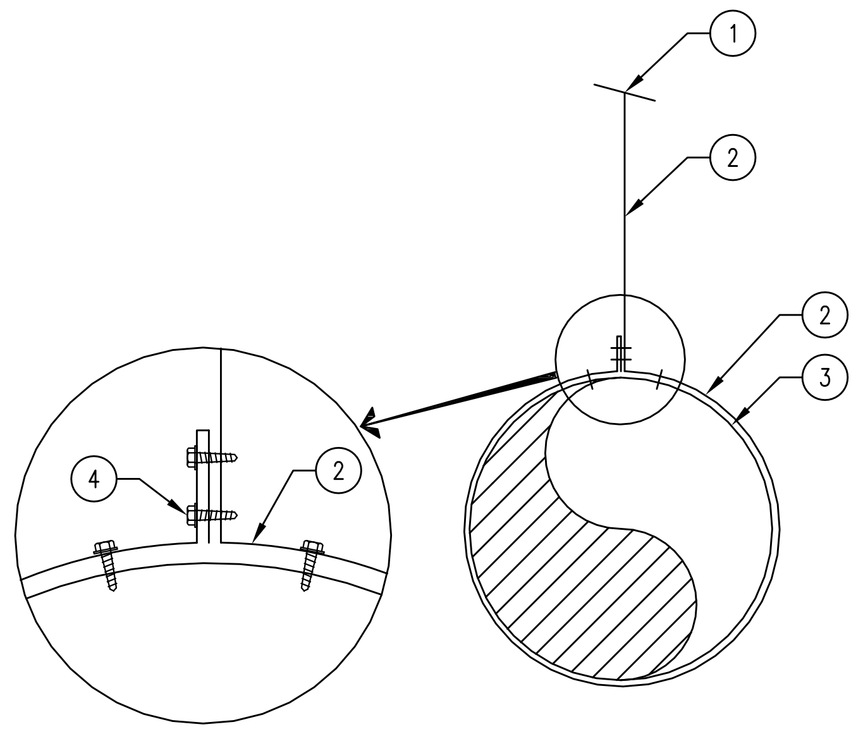
1. INSULATED REFRIGERATION PANEL FRAMING MEMBER, TYP
2. "B-LINE/COOPER" B-22 GALV CHANNEL, TYP.
3. SECURE CHANNEL TO FRAMING W/ #10 GALV. SMS, TYP.
4. SECURE EVAPORATOR AT MOUNTING TABS TO CHANNEL W/ 3/8 CHANNEL NUT, HEX BOLT, WASHER, LOCK WASHER, TYP.
5. EVAPORATOR



EVAPORATOR DETAIL

NTS 7

1. SEE DETAILS FOR UPPER ATTACHMENT OF STRAPS, TYP.
2. 1-1/2" x 20 GA GALV. STRAP AROUND DUCT.
3. ROUND DUCT.
4. #12 SMS AT TOP AND CORNERS, TYP.

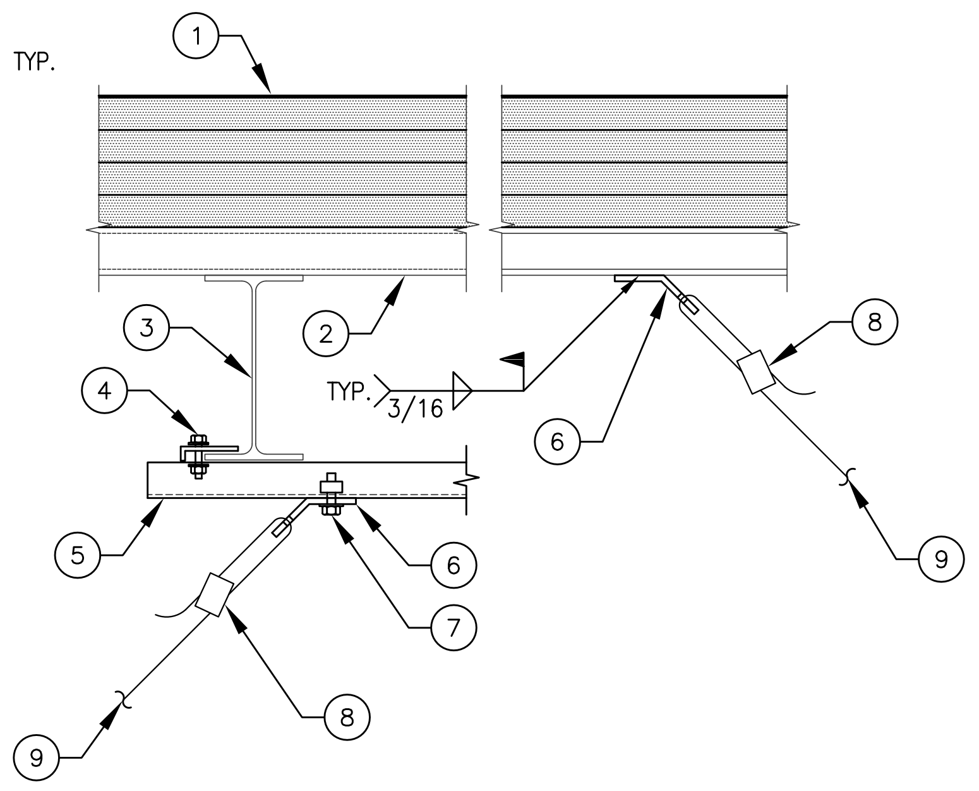


MDUSA07C

DUCT STRAP MOUNTING (ROUND)

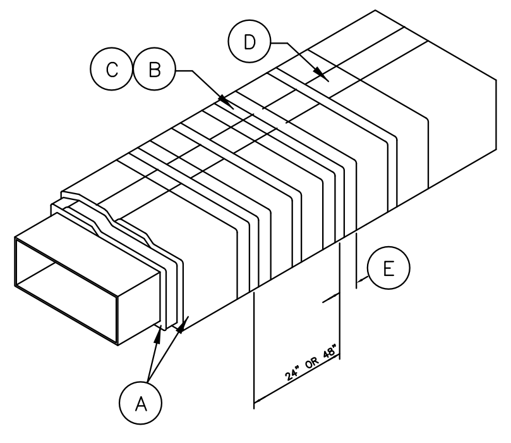
NTS 4

1. (E) RIGID INSULATION ROOFING
2. (E) METAL DECKING
3. (E) STEEL BEAM
4. BEAM CLAMP, B-LINE, B355 W/ 1/2" CHANNEL NUT, HEX BOLT AND WASHER.
5. 1-5/8" CHANNEL, B-LINE B22.
6. B-LINE B154 TWO HOLE 45 DEGREE OPEN ANGLE, TYP.
7. 3/8" HEX BOLT AND CHANNEL NUT.
8. B-LINE 3/16" BRC CABLE THRU ANGLE AND SECURE WITH B-LINE CABLE CLAMP BKC200-1.
9. SEE DETAILS FOR LOWER ATTACHMENT OF CABLES, TYP.



CABLE UPPER ATTACHMENT TO BEAM/DECK

NTS 1



GREASE DUCT WRAP DETAIL

DUCT WRAP LEGEND: Ⓐ	
A	TWO LAYERS OF FIRE RATED DUCT INSULATION
B	FILAMENT TAPE (TEMPORARY HOLD)
C	SS BANDING STRAPS (PERMANENT HOLD)
D	3" MINIMUM LONGITUDINAL OVERLAP
E	3" MINIMUM TRANSVERSE OVERLAP

GENERAL NOTE:
TECHNICAL DATA SHEET DATED MAY 2019
3M FIRE BARRIER DUCT WRAP 615+
GREASE DUCT LISTINGS- ASTM E2336/ICC-ES AC101.1
ICC-ES ESR-1255. CSFM LISTING NO. 2440-0941:112

GREASE DUCT SYSTEM :
MANUFACTURER/MODEL: 3M FIRE BARRIER DUCT WRAP 615 + BLANKET, FOR DUCT ENCLOSURE ASSEMBLIES. ICC EVALUATION LEGACY REPORT ESR-1255
INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S U.L. APPROVAL AND THROUGH CITY BUILDING PLAN CHECK OR ON SITE INSPECTOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.

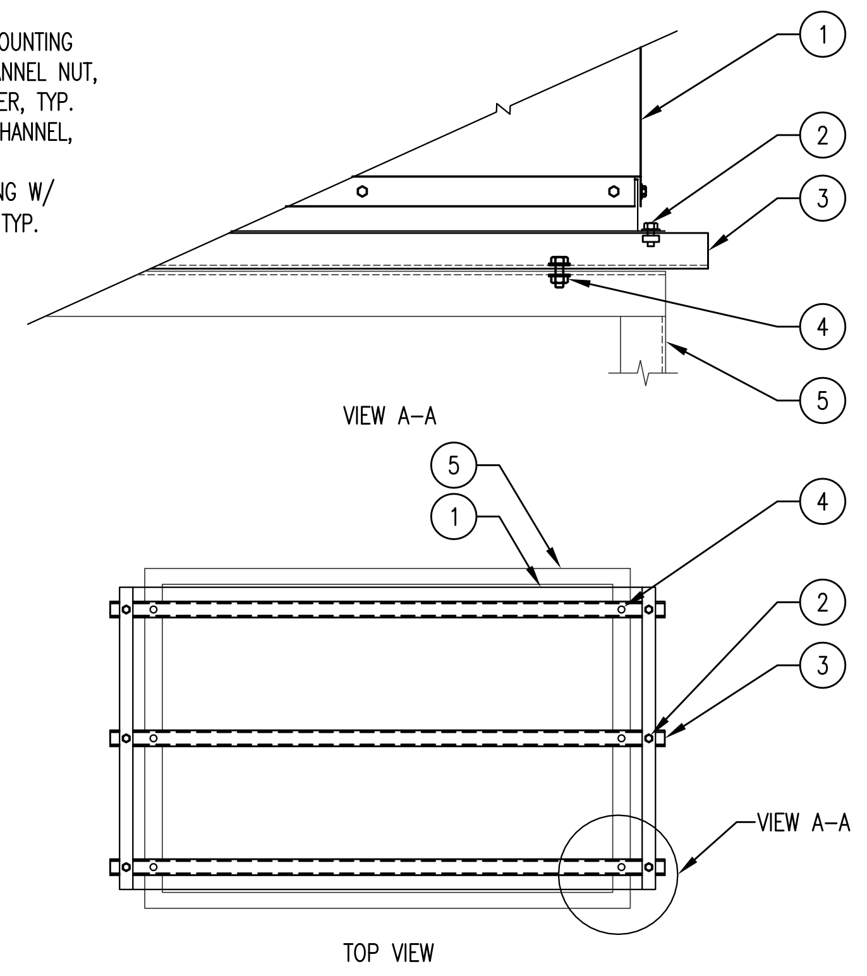
CODE COMPLIANCENOTES:

1. THE EXHAUST OUTLET TO BE 10'-0" MINIMUM FROM THE ADJACENT BUILDING PROPERTY LINE OR AIR INTAKE.
2. HOODS LESS THAN 12" FROM THE CEILING OR WALL SHALL BE FLASHED SOLID (MIN. 22 GA. STEEL OR STAINLESS STEEL.) 2016 UMC SEC. 508.4
3. REFER TO KITCHEN HOOD DRAWING SHEET#M3.2/M3.3 FOR HOOD DETAILS AND SPECIFICATION.

GREASE DUCT WRAP DETAIL

NTS 11

1. OUTDOOR CONDENSING UNIT, SEE SCHEDULE FOR SIZE.
2. SECURE CONDENSING UNIT AT MOUNTING RAILS TO CHANNEL W/ 3/8 CHANNEL NUT, HEX BOLT, WASHER, LOCK WASHER, TYP.
3. "B-LINE/COOPER" B-22 GALV CHANNEL, TYP.
4. SECURE CHANNEL TO (E) FRAMING W/ 3/8 HEX BOLT, WASHERS, NUT, TYP.
5. (E) STEEL SUPPORT FRAME.

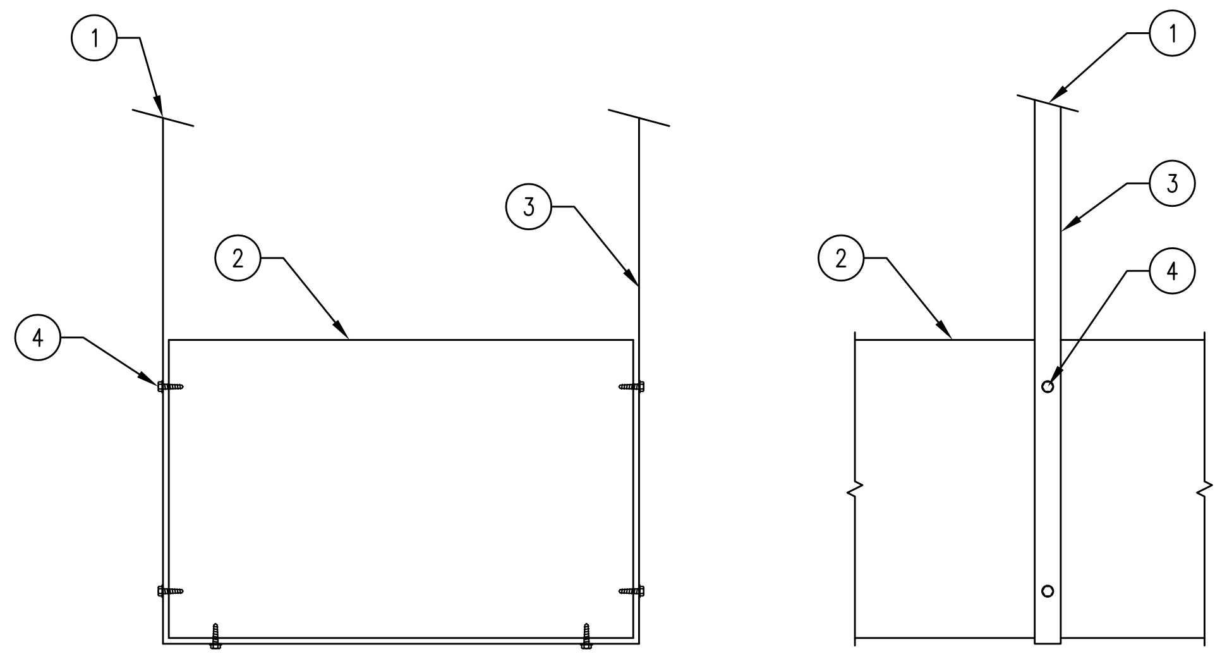


PPISA01F

CU MOUNTING DETAIL

NTS 8

1. SEE DETAILS FOR UPPER ATTACHMENT OF STRAPS, TYP.
2. RECTANGULAR DUCT.
3. 1-1/2" x 20 GA GALV.STRAP AROUND DUCT.
4. #12 SMS AT TOP AND CORNERS, TYP.

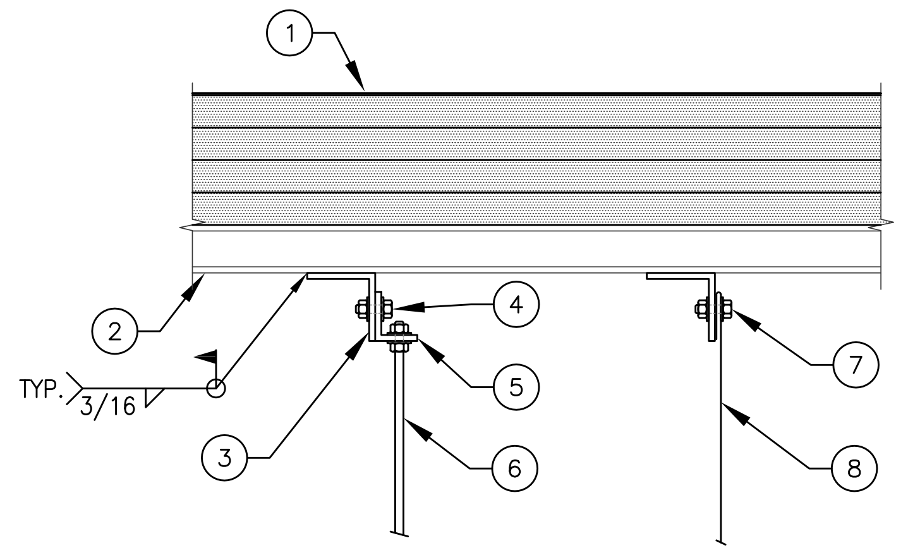


MDUSA07B

DUCT STRAP MOUNTING (RECTANGULAR)

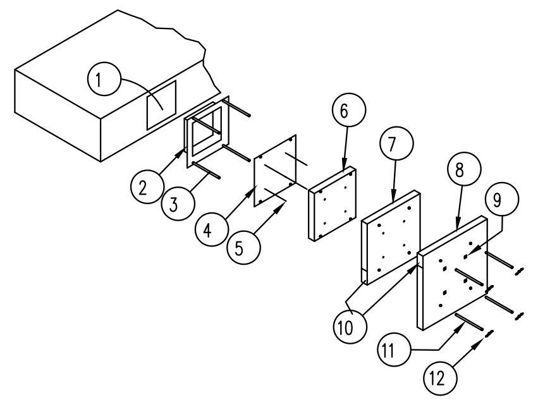
NTS 5

1. (E) RIGID INSULATION ROOFING
2. (E) METAL DECKING
3. 2"X2"X3" LONG CS ANGLE, WELD TO BOTTOM FLUTE OF DECK.
4. SECURE ANGLE FITTING TO ANGLE WITH (2) 3/8" HEX BOLTS, WASHERS, NUTS, TYP.
5. B-LINE B101 TWO HOLE CORNER ANGLE FITTING, ATTACH ROD WITH 3/8" WASHER AND NUT EACH SIDE.
6. 3/8 THREADED ROD.
7. FOLD DUCT STRAP OVER AND SURE TO ANGLE WITH WITH (2) 3/8" HEX BOLTS, WASHERS, NUTS, TYP.
8. 1-1/2" X 20 GA GALV. STRAP.



ROD/STRAP UPPER ATTACHMENT TO DECK

NTS 2



ACCESS DOOR DETAIL

ACCESS DOOR LEGEND:	Ⓗ
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIA. ALL THREAD RODS
4	ACCESS COVER – 16 GAUGE
5	INSULATION PINS – WELDED
6	ONE FireMaster ® DUCT WRAP
7	ONE FireMaster ® DUCT WRAP 1" OVERLAP
8	ONE FireMaster ® DUCT WRAP 1" OVERLAP
9	SPEED CLIPS
10	ALUMINUM TAPE AT EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIA. WING NUTS

CONTRACTOR'S NOTES

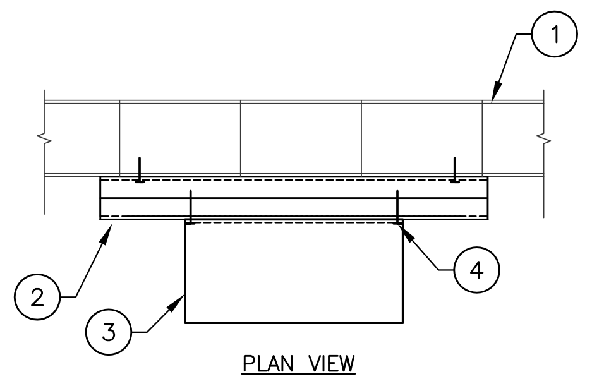
MANUFACTURER'S LISTED HOOD DUCT/DUCT WRAP SYSTEM INCLUDING LISTED INSULATED ACCESS PANEL MAYBE CONSIDERED FOR FINAL APPROVAL.

COMPLETE DUCTWRAP SYSTEM SPECIFICATION AND INSTALLATION GUIDELINES CAN BE OBTAINED FROM THE ARCHITECT AND OR ENGINEER.
CONTACT 3M @ 800-328-1687 OR VISIT WEB 3M.COM/FIRESTOP FOR MORE DUCTWRAP SPECIFIC REQUIREMENTS.

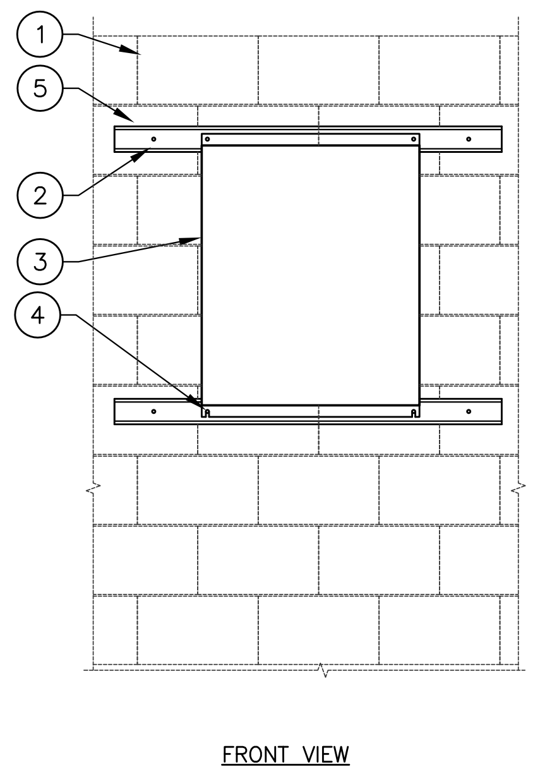
GREASE DUCT ACCESS DOOR DETAIL

NTS 12

1. (E) CONCRETE/CMU WALL .
2. INSTALL CHANNELS (B-LINE B-22A) LENGTH AS REQUIRED FOR WIDTH OF VFD. SECURE TO WALL WITH (2) 3/8"ø HILTI KB3 ANCHORS, 2-1/5" MIN. EMBEDMENT. INSTALL AT 5'-0" AFG TO TOP OF VFD.
3. VARIABLE FREQUENCY DRIVE (VFD). SEE MANUFACTURERS MOUNTING DETAILED INSTRUCTIONS IN IOM.
4. SECURE VFD BASE TO CHANNEL WITH (4) 3/8" CHANNEL NUTS AND HEX BOLTS.



PLAN VIEW



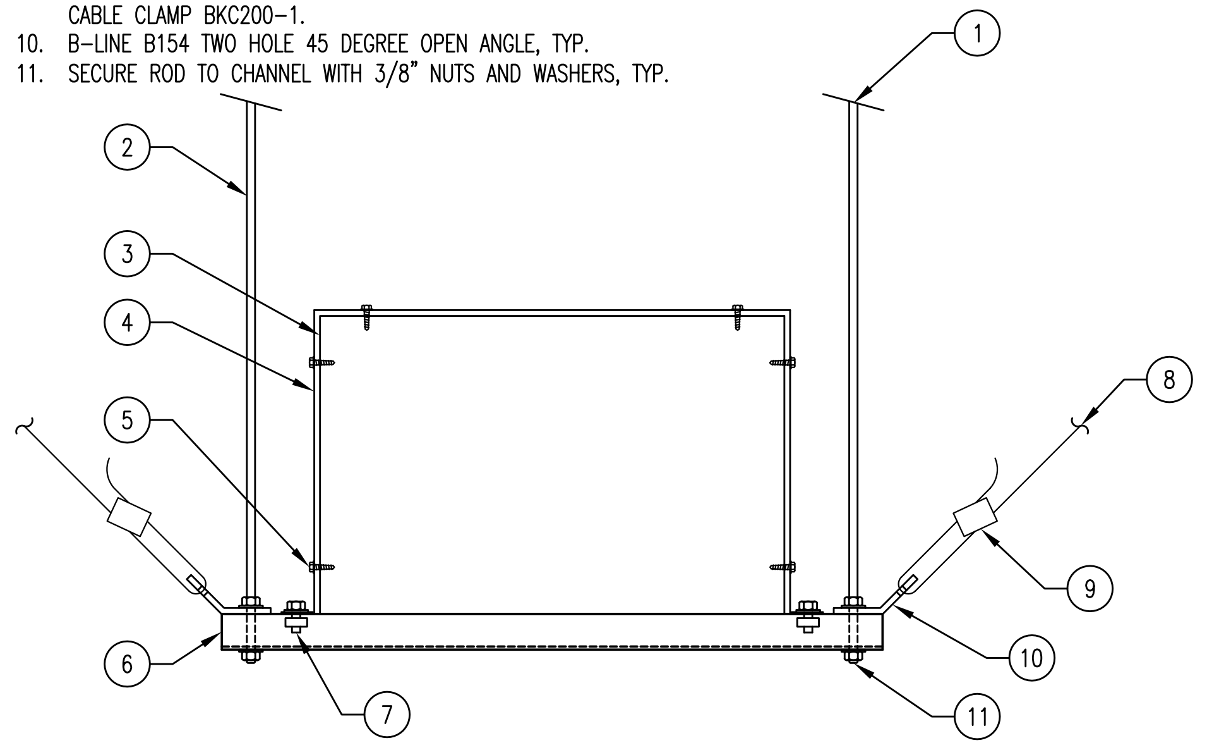
FRONT VIEW

MDUSA50A

VFD MOUNTING DETAIL

NTS 9

1. SEE DETAILS FOR UPPER ATTACHMENT OF RODS, TYP.
2. 3/8 THREADED ROD.
3. RECTANGULAR DUCT.
4. 1-1/2" x 20 GA GALV. STRAP AROUND DUCT.
5. #12 SMS AT TOP AND CORNERS, TYP.
6. 1-5/8" CHANNEL, B-LINE B22.
7. FOLD OVER STRAP AND SECURE TO CHANNEL WITH 3/8" HEX BOLT, WASHER, AND CHANNEL NUT, TYP.
8. SEE DETAILS FOR UPPER ATTACHMENT OF CABLES, TYP.
9. B-LINE 3 /16" BRC CABLE THRU ANGLE AND SECURE WITH B-LINE CABLE CLAMP BKC200-1.
10. B-LINE B154 TWO HOLE 45 DEGREE OPEN ANGLE, TYP.
11. SECURE ROD TO CHANNEL WITH 3/8" NUTS AND WASHERS, TYP.

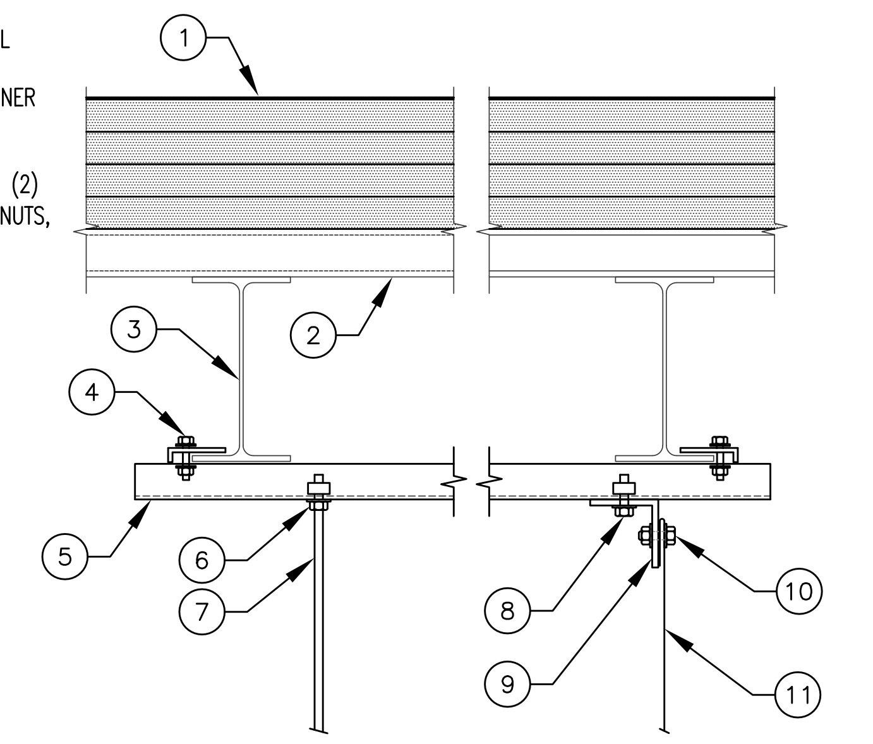


MDUSA07B

DUCT ROD MOUNTING (RECTANGULAR)

NTS 6

1. (E) RIGID INSULATION ROOFING
2. (E) METAL DECKING
3. (E) STEEL BEAM
4. BEAM CLAMP, B-LINE, B355 W/ 1/2" CHANNEL NUT, HEX BOLT AND WASHER.
5. 1-5/8" CHANNEL, B-LINE B22.
6. 3/8" NUT AND CHANNEL NUT.
7. 3/8" THREADED ROD.
8. 3/8" HEX BOLT AND CHANNEL NUT.
9. B-LINE B101 TWO HOLE CORNER ANGLE.
10. FOLD DUCT STRAP OVER AND SECURE TO ANGLE WITH WITH (2) 3/8" HEX BOLTS, WASHERS, NUTS, TYP.
11. 1-1/2" X 20 GA GALV. STRAP.



ROD/STRAP UPPER ATTACHMENT TO BEAMS

NTS 3

C D C R
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL DETAILS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

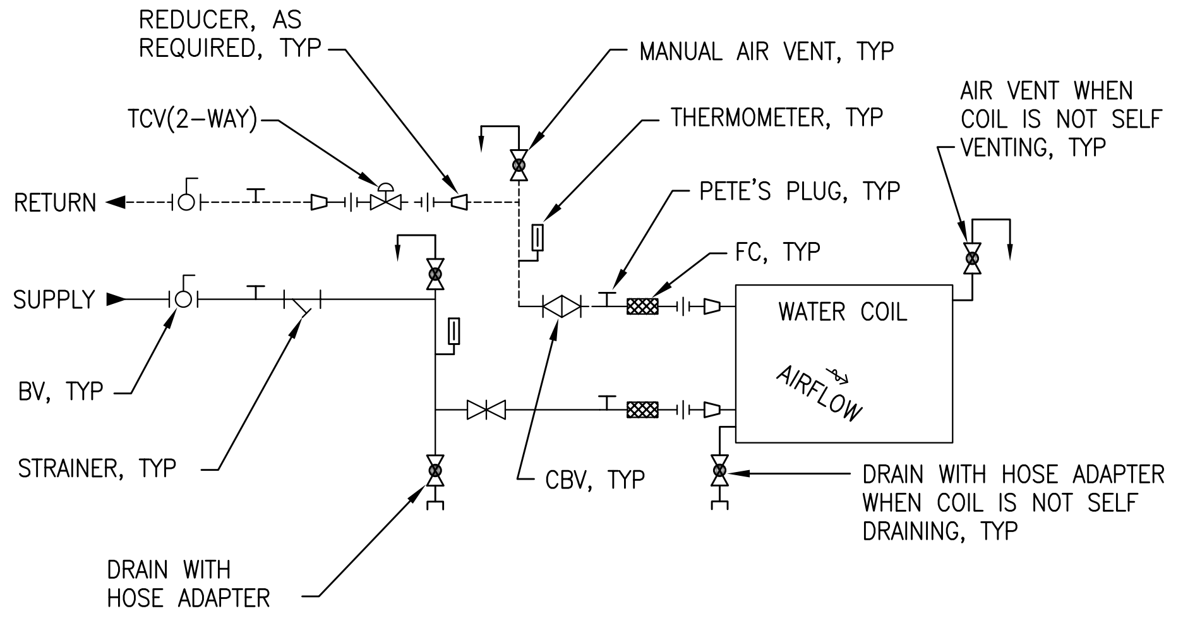
COR
24-014

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\M5.2 MECH DETAILS.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

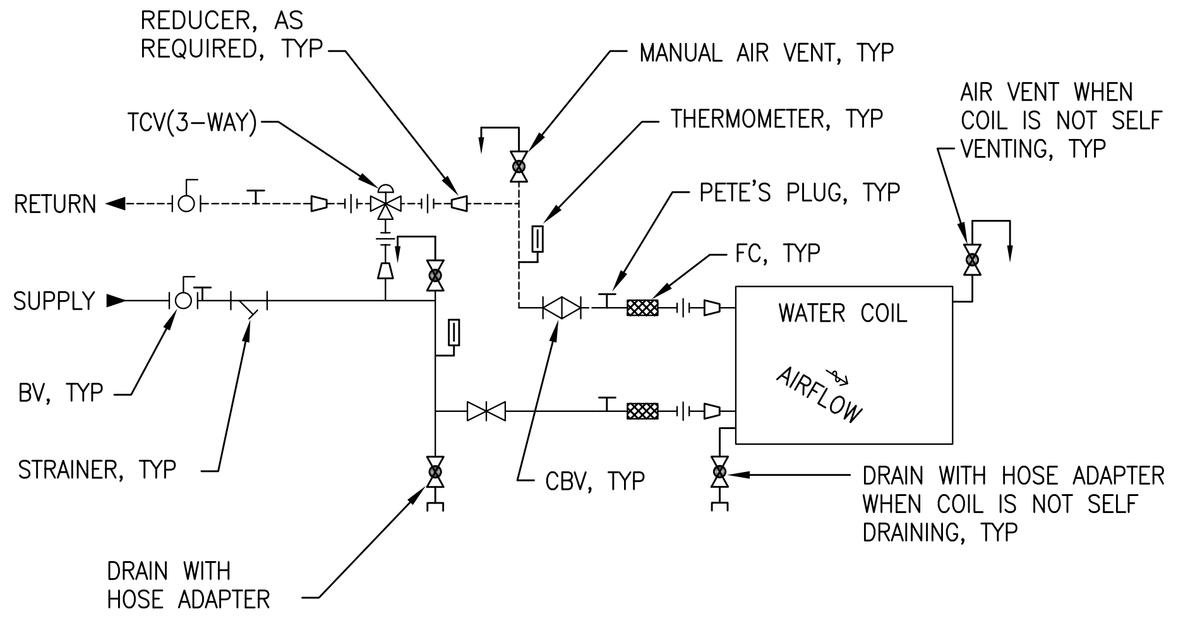
SHEET NUMBER
M5.2
OF # SHEETS V3



NOTES:

1. PIPING SHALL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS, NOR SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES OR OTHER EQUIPMENT.
2. VERIFY PIPING ARRANGEMENT WITH ACCEPTED TCV AND ACTUATOR PRIOR TO INSTALLATION. TCV SHALL BE NORMALLY OPEN WITH FLOW THRU THE COIL FOR HEATING APPLICATIONS. TCV SHALL BE NORMALLY CLOSED FOR COOLING APPLICATIONS, UNO.
3. COILS SHALL BE PIPED COUNTER FLOW TO AIR FLOW, SUPPLY AT BOTTOM.
4. UNIONS & BALL VALVES TO BE USED FOR PIPING 2" AND SMALLER. FLANGED CONNECTIONS AND BUTTERFLY VALVES TO BE USED FOR PIPING 2-1/2" AND GREATER (AS SHOWN).
5. PIPING SHALL BE SUPPORTED INDEPENDENT OF COIL.
6. THERMOMETERS AND FLEXIBLE CONNECTIONS NOT REQUIRED FOR TERMINAL UNIT REHEAT COILS.
7. FOR PIPE SIZES, SEE FLOOR PLANS, FLOW DIAGRAMS OR UNIT SCHEDULES.
   NOTE: ACCEPTABLE TO USE BELL & GOSSETT CIRCUIT SENTRY MODEL AC2Y VALVE PIPING KIT IN LUE OF INDIVIDUAL COMPONENTS.

COIL PIPING DETAIL (2-WAY) | NTS | 9



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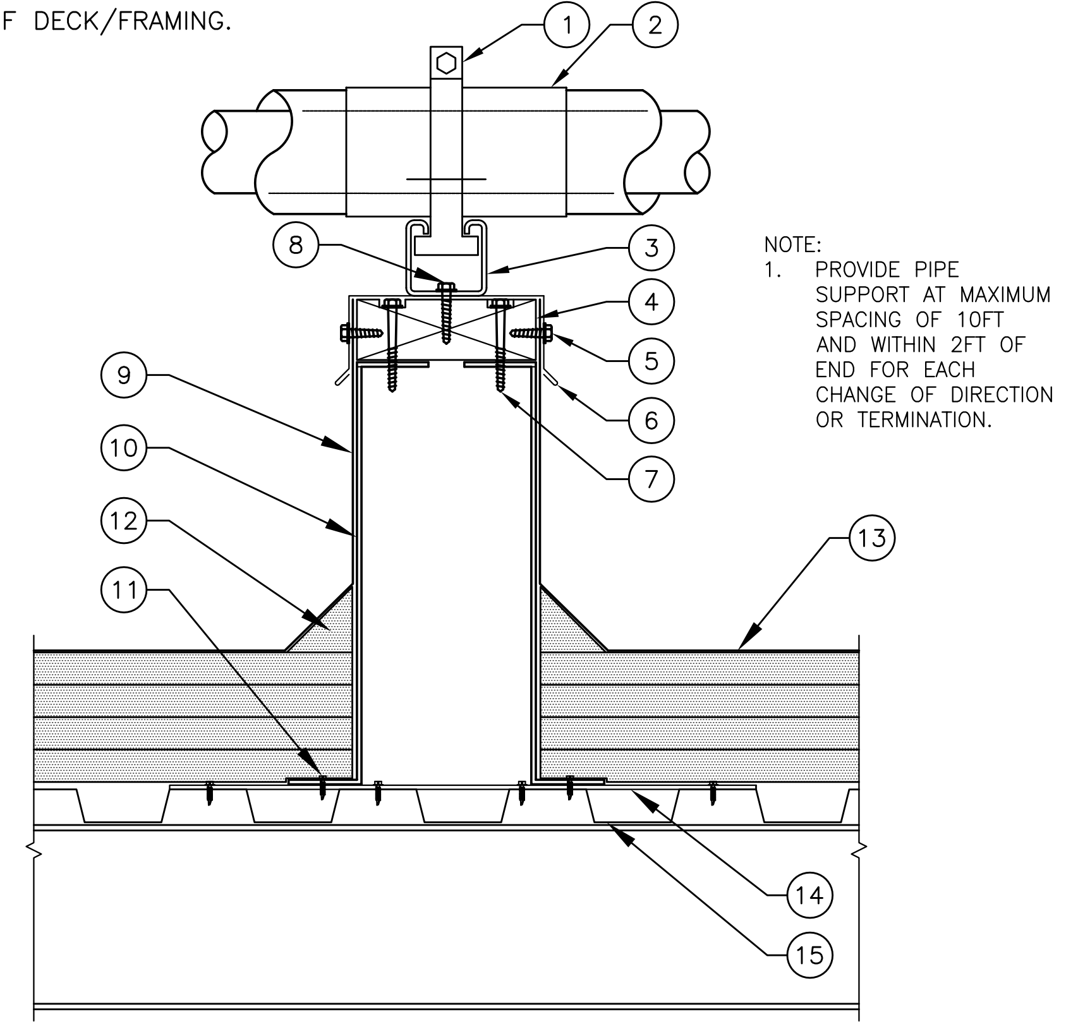
   NOTE: ACCEPTABLE TO USE BELL & GOSSETT CIRCUIT SENTRY MODEL AC2Y VALVE PIPING KIT IN LUE OF INDIVIDUAL COMPONENTS.

COIL PIPING DETAIL (3-WAY) | NTS | 10

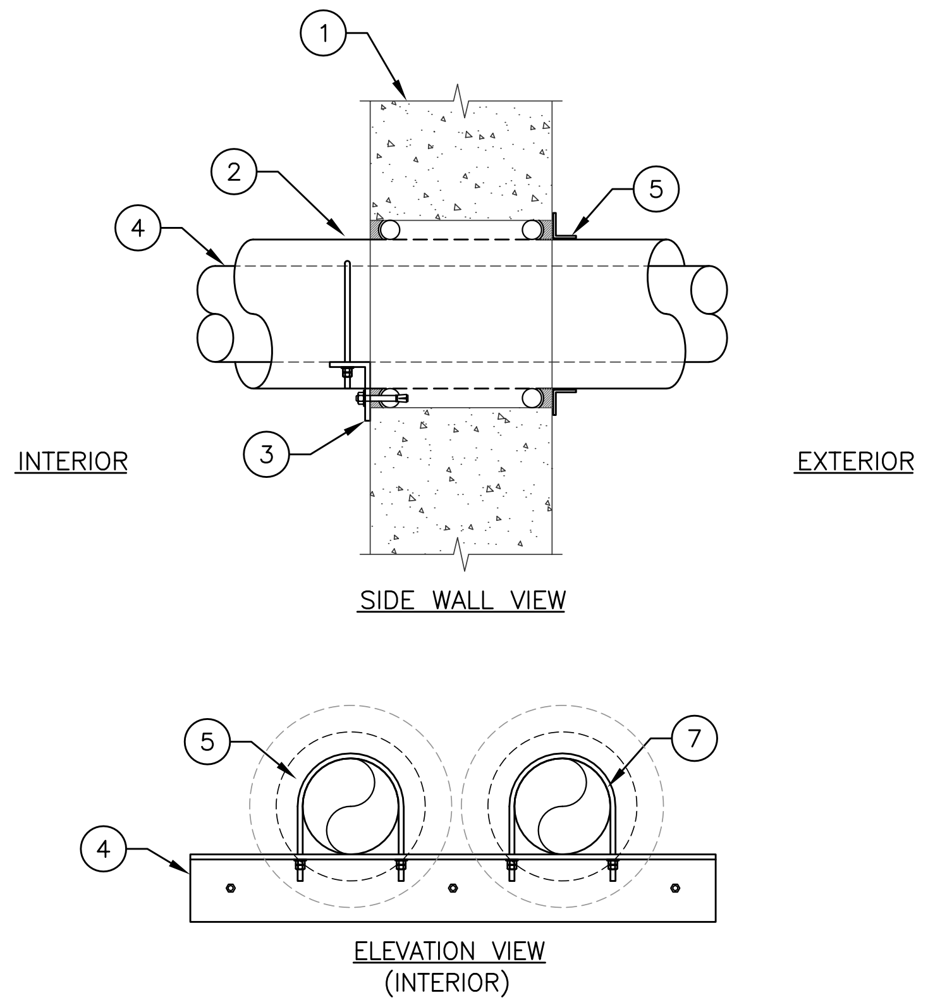
1. B-LINE SERIES 2000 SERIES GALV. PIPE CLAMP, TYPICAL.
2. PIPING WITH GALV. PIPE SHIELD OVER JACKET AND INSULATION, SEE PLAN FOR SIZE.
3. B-LINE B22 GALV. CHANNEL.
4. FIRE-RETARDANT TREATED WOOD NAILER ON TOP OF PIPE CURB.
5. SECURE COUNTER FLASHING TO PIPE CURB AT WOOD NAILER WITH #12 SHEET METAL SCREW, 2/SIDE MINIMUM EQUALLY SPACED.
6. GALV SM COUNTER FLASHING.
7. SECURE TREATED WOOD NAILER TO PIPE CURB WITH COUNTERSUNK $\frac{1}{4}$" SHEET METAL SCREWS.
8. SECURE CHANNEL TO PIPE CURB WITH $\frac{1}{4}$" GALV. LAG SREWS.
9. ROOFING UP AND UNDER COUNTER FLASHING (ROOFING AND FLASHING BY ROOFING CONTRACTOR SEE ROOFING DRAWINGS).
10. THYBAR TEMS PIPE CURB. SELECT HEIGHT BASED UPON INSULATION THICKNESS AT ROOF LOCATION. TOP OF CURB TO BE 8" MINIMUM ABOVE FINISHED ROOF.
11. SECURE CURB TO PL/DECK WITH #12 SCREWS @ 12" OC, EA SIDE.
12. CANT STRIP.
13. (E) MEMBRANE ROOF AND RIGID INSULATION.
14. 16 GA STEEL PLATE AS REQUIRED FOR CURB ATTACHMENT, SECURE TO METAL DECK WITH #12 SCREWS @ 12" OC AT EA TOP FLUTE.
15. (E) ROOF DECK/FRAMING.



NOTE:
1. PROVIDE PIPE SUPPORT AT MAXIMUM SPACING OF 10FT AND WITHIN 2FT OF END FOR EACH CHANGE OF DIRECTION OR TERMINATION.

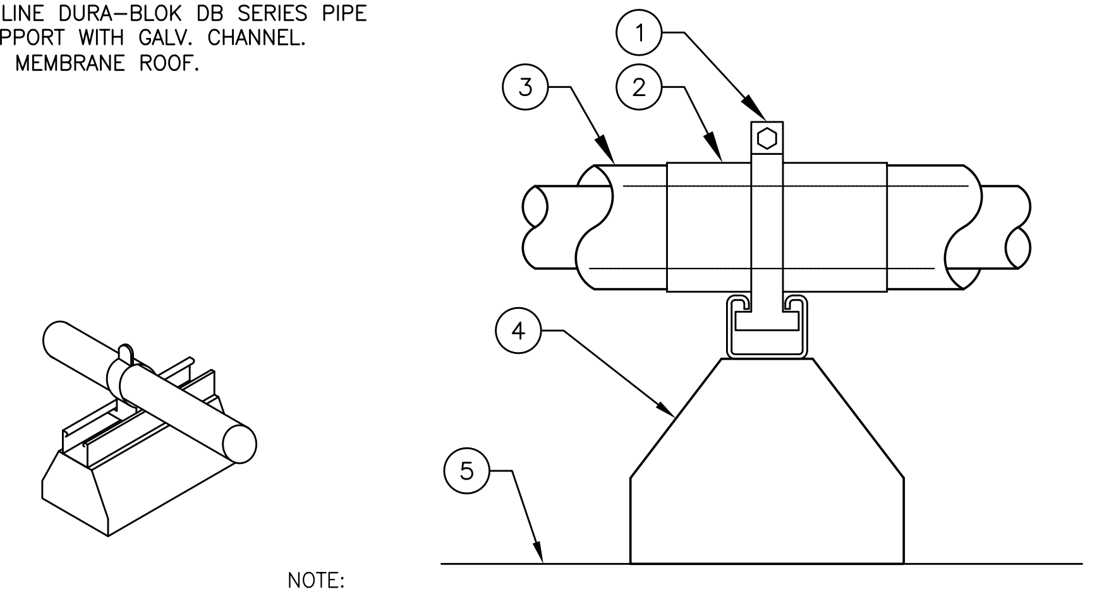
PIPE ANCHOR ON ROOF | NTS | 7

1. EXTERIOR WALL
2. PIPE INSULATION
3. 2x2x1/4" ANGLE IRON FASTENED TO WALL WITH (3) 3/8"ø HILTI KB-TZ2 SS ANCHORS, 2-1/2" MIN. EMBEDMENT.
4. PIPING W/ INSUL. ANCHORED WITH 1/4" U-BOLT, WASHERS, NUTS TYP.
5. SM COLLAR SEALED W/ WATERPROOF CONSTRUCTION ADHESIVE.



PIPE THRU METAL WALL | NTS | 8

1. B-LINE SERIES 2000 SERIES GALV. PIPE CLAMP, TYPICAL.
2. GALV. PIPE SHIELD.
3. PIPING WITH GALV. PIPE SHIELD OVER JACKET AND INSULATION, SEE PLAN FOR SIZE.
4. B-LINE DURA-BLOK DB SERIES PIPE SUPPORT WITH GALV. CHANNEL.
5. (E) MEMBRANE ROOF.



NOTE:
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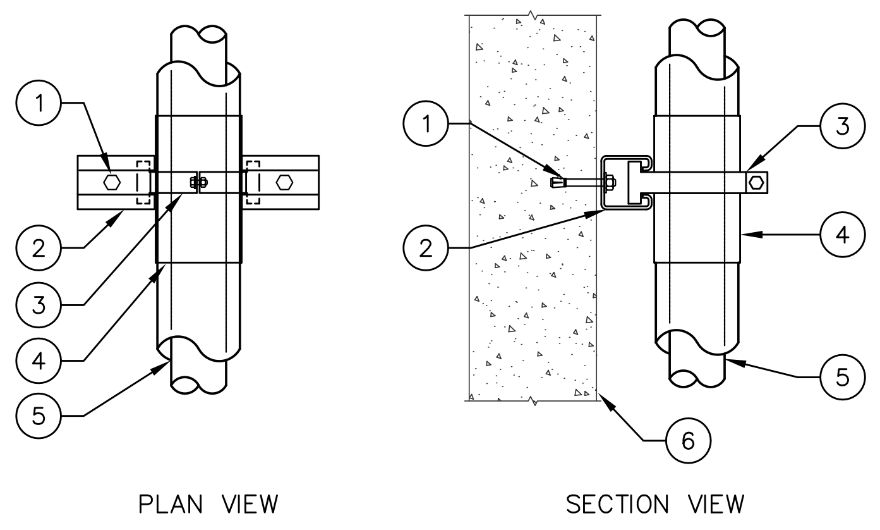
PIPE SUPPORT ON ROOF | NTS | 4

1. (2) 3/8"ø HILTI KB-TZ2 SS ANCHORS, 2-1/2" MIN. EMBEDMENT.
2. "B-LINE" B22 CHANNEL.
3. "B-LINE" SERIES 2000 PIPE CLAMP, TYPICAL.
4. GALV. PIPE SHIELD.
5. PIPE W/ ALUMINUM JACKET AND INSULATION, SEE PLAN FOR SIZE.
6. (E) CONCRETE OR FILLED CMU WALL.



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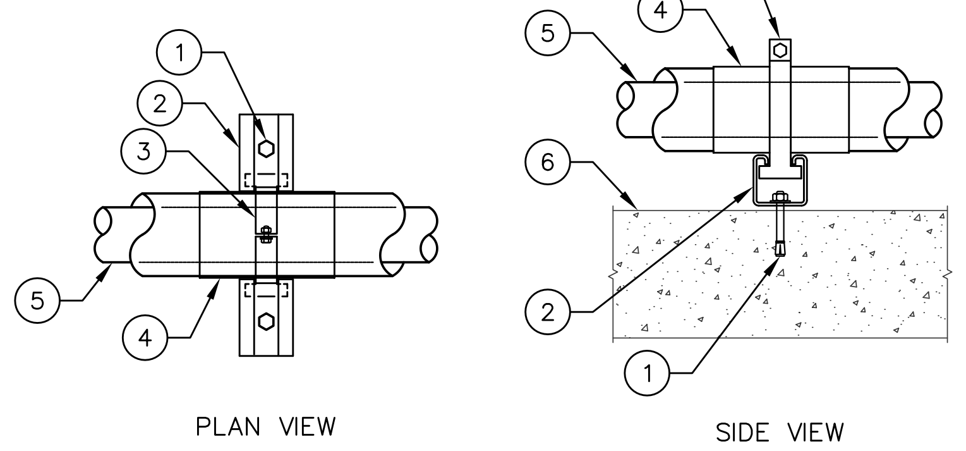
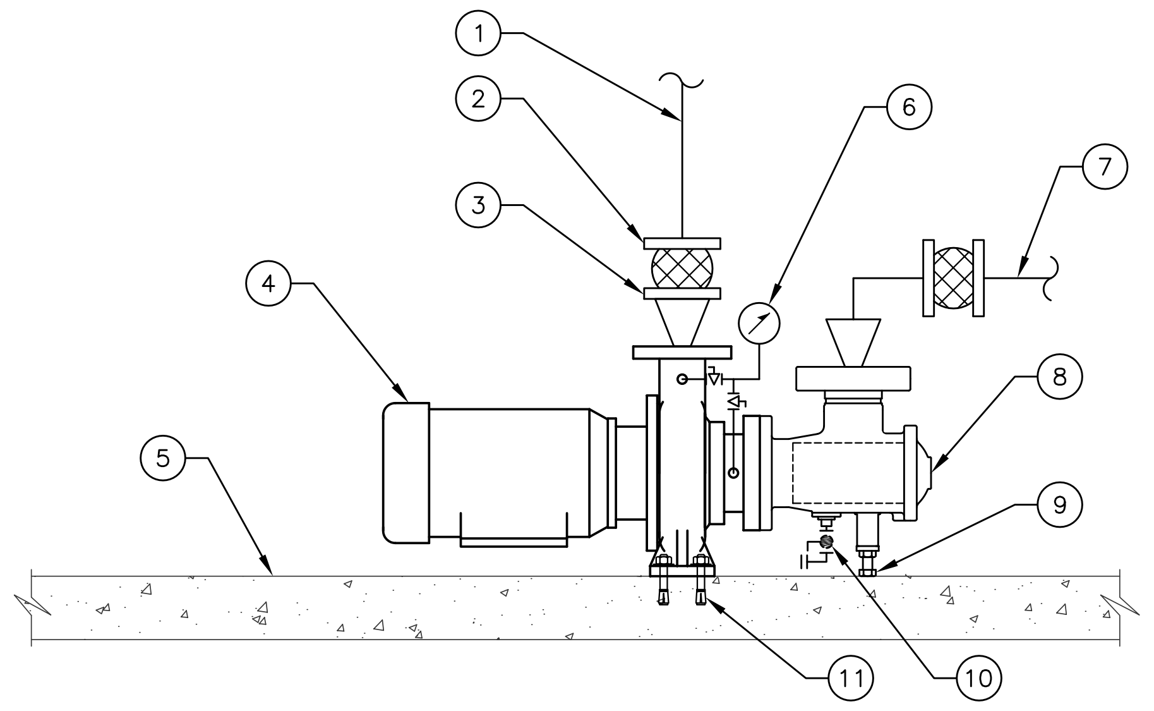
PIPE SUPPORT AT CONCRETE WALL DETAIL | NTS | 5

1. (2) 3/8"ø HILTI KB-TZ2 SS ANCHORS, 2-1/2" MIN. EMBEDMENT.
2. "B-LINE" B22 CHANNEL.
3. "B-LINE" SERIES 2000 PIPE CLAMP, TYPICAL.
4. GALV. PIPE SHIELD.
5. PIPE W/ ALUMINUM JACKET AND INSULATION, SEE PLAN FOR SIZE.
6. (E) OR (N) CONCRETE EQUIPMENT PAD.



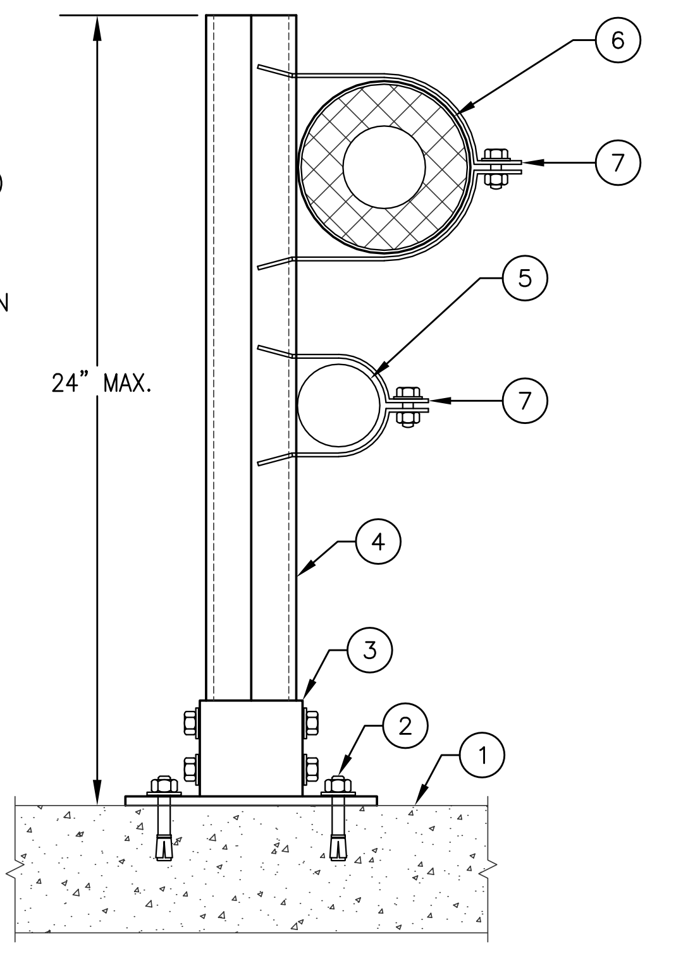
PIPE SUPPORT AT CONCRETE PAD DETAIL | NTS | 6

1. HWS PIPING, SEE PLAN AND PIPING DIAGRAM FOR SIZE/ROUTING AND OTHER PIPING COMPONENTS.
2. FLEXIBLE CONNECTOR (TYP).
3. REDUCER BETWEEN LINE SIZE PIPING AND PUMP OUTLET IF REQUIRED.
4. PUMP ASSEMBLY. SEE EQUIPMENT SCHEDULE.
5. EXISTING 4" MIN CONCRETE PAD.
6. PRESSURE GAUGE (TYP) W/ TUBING AND SOV'S AT PUMP BODY TAPINGS.
7. HWR PIPING, SEE PLAN AND PIPING DIAGRAM FOR SIZE/ROUTING AND OTHER PIPING COMPONENTS
8. SUCTION DIFFUSER W/STRAINER AND ORIFICE CYLINDER.
9. 3/4" MINIMUM DIAMETER PIPE STAND W/ADJUSTABLE FOOT. ADJUST TO RELIEVE VERTICAL PIPE LOAD ON SUCTION DIFFUSER.
10. BALL VALVE W/ HOSE CONNECTION (TYP).
11. 1/2"ø HILTI KB-TZ2 SS ANCHOR WITH 2-1/2" EMBEDMENT (TYP 4).



PUMP MOUNTING | NTS | 1

1. (E) CONCRETE FLOOR
2. (4) 3/8"ø HILTI KB-TZ2 SS ANCHORS, 2-1/2" MIN. EMBEDMENT.
3. "B-LINE" B281SQ POST BASE, GALV. SECURE CHANNEL W/ (4) $\frac{3}{8}$"ø HEX BOLTS, WASHERS, LOCKWASHERS AND NUTS, GALV.
4. B-LINE B22A CHANNEL
5. NON-INSULATED PIPE, SEE PLAN FOR SIZE.
6. INSULATED PIPE WITH JACKET AND GALV. PIPE SHIELD. SEE PLAN FOR SIZE.
7. B-LINE SERIES 2000 PIPE CLAMP, TYPICAL.



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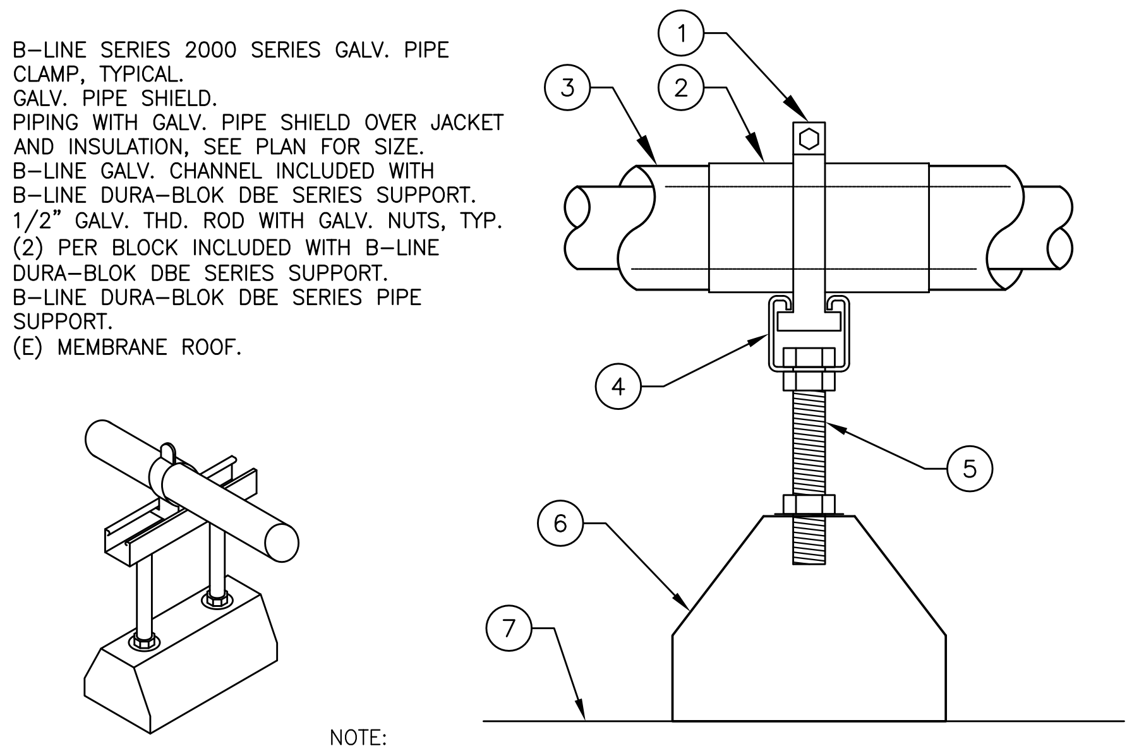
PIPE SUPPORT AT CONCRETE PAD DETAIL | NTS | 2

1. B-LINE SERIES 2000 SERIES GALV. PIPE CLAMP, TYPICAL.
2. GALV. PIPE SHIELD.
3. PIPING WITH GALV. PIPE SHIELD OVER JACKET AND INSULATION, SEE PLAN FOR SIZE.
4. B-LINE GALV. CHANNEL INCLUDED WITH B-LINE DURA-BLOK DBE SERIES SUPPORT.
5. 1/2" GALV. THD. ROD WITH GALV. NUTS, TYP. (2) PER BLOCK INCLUDED WITH B-LINE DURA-BLOK DBE SERIES SUPPORT.
6. B-LINE DURA-BLOK DBE SERIES PIPE SUPPORT.
7. (E) MEMBRANE ROOF.



NOTE:
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PIPE SUPPORT ON ROOF | NTS | 3

CDCR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGY
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MECHANICAL

TYRONE COATS
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FACILITY III A KITCHEN REPAIRS

COR
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CALIFORNIA STATE PRISON CORCORAN
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CORCORAN, CALIFORNIA 93212

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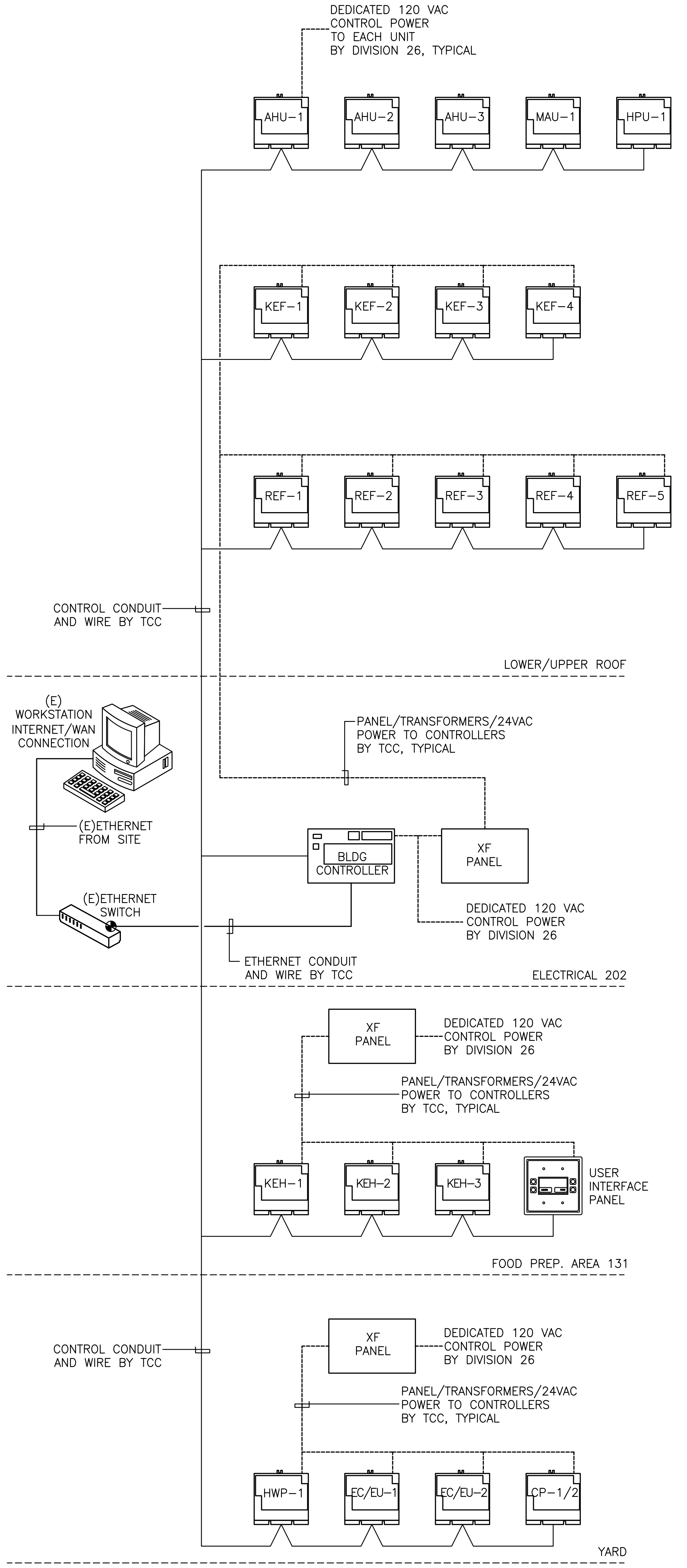
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
M5.3
OF # SHEETS V3

CONTROL LEGEND

CR	FUNCTIONAL DEVICES RIBU1C CONTROL RELAY
CS	FUNCTIONAL DEVICES RIBXGTA–SCAL SELF–CALIBRATING CURRENT SWITCH
DA	BELIMO TF24–3 SPRING RETURN DAMPER ACTUATOR
LLT	LOW LIMIT CUTOUT CONTROL
OAT	OUTDOOR AIR TEMP SENSOR
RH	RELATIVE HUMIDITY
PT	PRESSURE SENSOR/TRANSMITTER
TS	DUCT MOUNT TEMPERATURE SENSOR
TS	IMMERSION MOUNT TEMPERATURE SENSOR
HWV	BELIMO B3xx 3–WAY PROPORTIONAL CONTROL VALVE
VLV	BELIMO B2xxHT 2–WAY HIGH TEMP SPRING RETURN PORPORTIONAL CONTROL VALVE
UNT	APPLICATION/UNITARY CONTROLLER
XF	CONTROL TRANSFORMER
ZNT	ZONE TEMPERATURE SENSOR
DS	DISCONNECT SWITCH
	BUILDING CONTROLLER



BUILDING 307A HVAC CONTROL SYSTEM ARCHITECTURE NTS 1

SEQUENCE OF OPERATION

BAS (BUILDING AUTOMATION SYSTEM)

GENERAL

1. THE BAS SHALL BE TRANE TRACER ARCHITECTURE TO MATCH EXISTING.
2. APPROVED VENDORS, PRODUCTS AND WEB SERVICES SHALL COMPLY WITH SOC2 TYPE I AS DEFINED BY THE AICPA.
3. THE BAS SHALL BE FULLY INTEGRATED AND COORDINATED WITH THE MECHANICAL, PLUMBING, AND FIRE SUPPRESSION EQUIPMENT AND CAPABLE OF INTEGRATING MULTIPLE BUILDING FUNCTIONS, INCLUDING EQUIPMENT SUPERVISION AND CONTROL, ALARM MANAGEMENT, ENERGY MANAGEMENT, AND TREND DATA COLLECTION.
4. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER WILL OPERATE USING ITS LOCAL SCHEDULE AND SETPOINTS.
5. THE BAS SHALL CONSIST OF THE FOLLOWING:
   a. SYSTEM COMMUNICATION: EACH WORKSTATION, BUILDING CONTROLLER, EQUIPMENT/PLANT CONTROLLER COMMUNICATION INTERFACE SHALL UTILIZE THE BACNET PROTOCOL WITH ETHERNET RS485 PHYSICAL INTERFACE AND DATA LINK TECHNOLOGY.
   b. FIELD BUS COMMNICATION: BACNET.
   c. OPERATOR INTERFACE: BUILDING OPERATOR WEB INTERFACE.

BUILDING CONTROLLER

1. A NEW BUILDING CONTROLLER SHALL BE ADDED TO BUILDING 307A IN THE ELECTRICAL ROOM AND CONNECTED TO THE INSTITUTION'S EXISTING ETHERNET NETWORK FOR COMMUNICATION AND FUTURE INTEGRATION TO THE EXISTING BUILDING CONTROLLERS AFTER UPGRADE.

BUILDING OCCUPIED / UNOCCUPIED MODES

BUILDING OCCUPIED / UNOCCUPIED MODES OF OPERATION SHALL BE SCHEDULED AT THE NEW BUILDING CONTROLLER THROUGH THE WEB INTERFACE BY THE OWNER. HOLIDAY CALENDAR SHALL BE PROVIDED FOR EXTENDED UNOCCUPIED MODES OF OPERATION.

TIMED OVER–RIDE

AREA CONTROL MONITORS THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE ZONE TEMPERATURE SENSORS ASSOCIATED WITH THE AREA. WHEN A TIMED OVERRIDE REQUEST FROM A TRANE ZONE TEMPERATURE SENSOR, IS SENSED, THE AREA WILL CHANGE FROM ITS CURRENT STATE TO OCCUPIED.

UNOCCUPIED MODE:

IN THE UNOCCUPIED MODE THE AIR HANDLING UNITS (AHU'S) WILL BE DISABLED. THE AHU'S WILL BE ENABLED AS REQUIRED TO MAINTAIN THE UNOCCUPIED SPACE HEATING SET POINT OF 50 DEGREES FAHRENHEIT (ADJ) AND COOLING SET POINT OF 90 DEGREES FAHRENHEIT (ADJ).

OCCUPIED MODE:

IN THE OCCUPIED MODE THE AIR HANDLING UNITS (AHU) WILL BE ENABLED TO MAINTAIN VENTILATION AND THE OCCUPIED SPACE HEATING SET POINT OF 68 DEGREES FAHRENHEIT (ADJ) AND COOLING SET POINT OF 85 DEGREES FAHRENHEIT (ADJ).

AIR HANDLING UNIT CONTROL (AHU–1, AHU–2, AND AHU–3)

AHU SHUTDOWN CONTROL–UNOCCUPIED MODE/MANUAL OVER–RIDE:

THE EXHAUST AIR DAMPER SHALL BE CLOSED, THE OUTSIDE AIR AND MINIMUM OUTSIDE AIR DAMPER SHALL BE CLOSED, THE RETURN AIR DAMPER SHALL BE OPEN, THE EVAPORATIVE COOLING BYPASS DAMPER SHALL BE OPEN, THE SUPPLY AND RETURN FANS VARIABLE FREQUENCY DRIVES (VFD'S) SHALL BE OFF, THE HEATING CONTROL VALVE SHALL BE CLOSED, THE EVAPORATIVE COOLING SYSTEM SHALL BE OFF.

AHU STARTUP CONTROL–OCCUPIED MODE/UNOCCUPIED MODE/MANUAL OVER–RIDE:

THE EXHAUST AIR DAMPER SHALL BE ENABLED, THE OUTSIDE AIR AND MINIMUM OUTSIDE AIR DAMPER SHALL BE ENABLED, THE RETURN AIR DAMPER SHALL BE ENABLED, THE EVAPORATIVE COOLING BYPASS DAMPER SHALL BE ENABLED, THE SUPPLY AND RETURN FANS VFD'S SHALL BE ENABLED, THE HEATING CONTROL VALVE SHALL BE ENABLED, THE EVAPORATIVE COOLING SYSTEM SHALL BE ENABLED.

FAN SYSTEMS CONTROL:

THE SUPPLY AND RETURN FANS VFD'S SHALL RUN ANYTIME THE AHU'S ARE ON UNLESS SHUT DOWN ON SAFETIES. EACH VFD SHALL BE PROGRAMMED THROUGH THE DRIVE CONTROLLER FOR SOFT START ACCORDING TO THE MANUFACTURE'S GUIDELINES. A TOTAL AND STATIC PRESSURE PIEIZOMETER RING SHALL BE USED TO DETERMINE THE DYNAMIC PRESSURE AND DATA USED WITH FAN CHARACTERISTICS TO CALCULATE THE AIRFLOW FOR EACH FAN. FAN FAILURE ALARM: COMMAND ON/STATUS OFF, VFD FAULT ALARM.

SUPPLY AIR CONTROL:

THE SUPPLY FANS VFD'S SPEED SHALL BE MODULATED TO MAINTAIN THE SUPPLY AIR DUCT STATIC PRESSURE SETPOINT OF 1.5" WG (ADJ) FOR EACH AHU. AT TIME OF AIR DISTRIBUTION SYSTEM BALANCE, THE TEST AND BALANCE CONTRACTOR SHALL ADJUST THE PRESSURE SETPOINT AS REQUIRED TO ACHIEVE SUPPLY AIR SYSTEM AIRFLOWS FOR ALL MODES OF OPERATION OF EACH AHU.

RETURN AIR CONTROL:

THE RETURN FANS VFD'S SPEED SHALL BE MODULATED TO MAINTAIN THE DIFFERENCE BETWEEN THE MEASURED SUPPLY AND RETURN AIRFLOWS. AT TIME OF AIR DISTRIBUTION SYSTEM BALANCE, THE TEST AND BALANCE CONTRACTOR SHALL ADJUST THE RETURN FANS VFD'S SPEEDS AS REQUIRED TO ACHIEVE THE DIFFERENCE BETWEEN SUPPLY AIRFLOW AND RETURN AIRFLOW FOR ALL MODES OF OPERATION OF EACH AHU.

AHU–1/AHU–3: RETURN DIFFERENCE SETPOINT: 1,000CFM (SUPPLY=10,000CFM/RETURN=9,000CFM/OUTSIDE=2,400CFM/EXHAUST=1,400CFM)
AHU–2: RETURN DIFFERENCE SETPOINT (LOW AIRLOW MODE): 2,000CFM (SUPPLY=4,800CFM/RETURN=2,800CFM/OUTSIDE=2,000CFM/EXHAUST=0CFM)
AHU–2: RETURN DIFFERENCE SETPOINT (HIGH AIRLOW MODE): 6,400CFM (SUPPLY=9,200CFM/RETURN=2,800CFM/OUTSIDE=6,400CFM/EXHAUST=0CFM)

SUPPLY AIR TEMPERATURE CONTROL:

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AND COOLING ZONE DEMAND.

HEATING DEMAND: ZERO% = 68 DEGREES F / 100% = 100 DEGREES F.
COOLING DEMAND: ZERO% = 85 DEGREES F / 100% = 75 DEGREES F.

HEATING WATER VALVE CONTROL

DURING A CALL FOR HEATING, THE DISCHARGE AIR SHALL BE MAINTAINED AT SUPPLY AIR SETPOINT TEMPERATURE BY MODULATING THE HEATING WATER CONTROL VALVE. IF THERE IS NO HEATING DEMAND, THEN THE HEATING WATERT VALVE SHALL RETURN TO THE NORMALLY CLOSED POSITION.

MINIMUM OUTSIDE AIR DAMPER CONTROL:

THE MINIMUM OUTSIDE AIR DAMPER SHALL INCLUDE AND ARRAY OF TOTAL AND STATIC AIR PRESSURE PORTS USED TO DETERMINE THE DYNAMIC PRESSURE AND DATA USED WITH DAMPER CHARACTERISTICS TO CALCULATE THE AIRFLOW ACROSS THE DAMPER. THE DAMPER SHALL BE MODULATED TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW RATE OF EACH AHU. FOR UNITS WITH DEMAND CONTROL VENTILATION, THE MINIMUM OUTSIDE AIR DAMPER SHALL BE MODULATED TO THE LOWER VALUE OF THE MINIMUM OUTSIDE AIRFLOW RANGE.

AHU–1/AHU–3: MINIMUM OUTSIDE AIRFLOW=1,000–2,400CFM (DEMAND CONTROL VENTILATION).
AHU–3 (LOW AIRFLOW MODE): MINIMUM OUTSIDE AIRFLOW=2,000CFM.

CARBON DIOXIDE CONTROL (AHU–1 AND AHU–2 ONLY):

DURING OCCUPIED MODE, THE OUTSIDE AND RETURN AIR CARBON DIOXIDE LEVEL SHALL BE MEASURED. WHEN THE RETURN AIR CARBON DIOXIDE LEVEL IS 600 PPM ABOVE THE OUTSIDE CARBON DIOXIDE LEVEL, THE ECONOMIZER DAMPERS SHALL MODULATE TO THE UPPER MINIMUM OUTSIDE AIRFLOW RATE. WHEN THE RETURN AIR CARBON DIOXIDE LEVEL IS 400 PPM ABOVE THE OUTSIDE CARBON DIOXIDE LEVEL, THE ECONOMIZER DAMPERS SHALL RETURN TO NORMAL OPERATION.

ECONOMIZER CONTROL:

ECONOMIZER CONTROL SHALL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS 82 DEGREES FAHRENHEIT (ADJ) OR LOWER AND THE AHU IN COOLING MODE. THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE AND THE ECONOMIZER DAMPERS MODULATED IN PROPORTION TO THE MINIMUM OUTSIDE AIR DAMPER POSITION AND 100% OPEN OUTSIDE AIR DAMPER POSITION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE ECONOMIZER IS DISABLED WHEN OUTSIDE AIR TEMPERATURE IS 85 DEGREES FAHRENHEIT OR GREATER.

EXHAUST AIR DAMPER CONTROL:

THE EXHAUST AIR DAMPER SHALL MODULATE IN UNISON WITH THE OUTSIDE AIR DAMPERS AND RETURN AIR DAMPER. THE RETURN AIR PLENUM PRESSURE SHALL BE MEASURED AND THE EXHAUST AIR DAMPER MODULATED TO MAINTAIN THE RETURN AIR PLENUM PRESSURE UPPER LIMIT OF 0.05" WG (ADJ) WHEN THE AHU IS ON.

RETURN AIR DAMPER CONTROL:

THE RETURN AIR DAMPER SHALL MODULATE IN UNISON WITH THE OUTSIDE AIR DAMPERS AND EXHAUST AIR DAMPER. THE MIXED AIR PLENUM PRESSURE SHALL BE MEASURED AND THE RETURN AIR DAMPER MODULATED TO MAINTAIN THE MIXED AIR PLENUM PRESSURE LOWER LIMIT OF –0.02" WG (ADJ) WHEN THE AHU IS ON.

EVAPORATIVE COOLING BYPASS DAMPER CONTROL:

THE EVAPORATIVE COOLING BYPASS DAMPER SHALL BE ENABLED WHEN THE AHU IS ON. THE DAMPER SHALL BE OPEN DURING ALL MODES OF OPERATION EXCEPT EVAPORATIVE COOLING MODE. DURING EVAPORATIVE COOLING MODE THE BYPASS DAMPER SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

EVAPORATIVE COOLING CONTROL:

EVAPORATIVE COOLING WILL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE THE ECONOMIZER DISABLE TEMPERATURE AND THE AHU IS IN COOLING MODE. THE EVAPORATIVE COOLING SYSTEM WILL BE CONTROLLED BY THE AHU MANUFACTURE'S CONTROL ALGORITHM. THE BYPASS DAMPER SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE MINIMUM OUTSIDE AIR DAMPER, OUTSIDE AIR DAMPER, AND EXHAUST AIR DAMPER SHALL BE IN THE FULL OPEN POSITION. THE RETURN AIR DAMPER SHALL BE CLOSED. A RELATIVE HUMIDITY SENSOR SHALL BE IN THE RETURN AIR DUCTWORK AND THE THE ZONE RELATIVE HUMIDITY SHALL BE MONITORED.

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH WILL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM WILL BE ANNUNCIATED.

SAFETIES:

LOW LIMIT TEMPERATURE: 38 DEGREES F (ADJ), MANUAL RESET, HARD WIRED INTERLOCK, ALARM.
SUPPLY AIR STATIC PRESSURE: 2.5" WG (ADJ), MANUAL RESET, ALARM.
RETURN AIR STATIC PRESSURE: 2.0" WG (ADJ), MANUAL RESET, ALARM.
SMOKE CONTROL: DETECTION OF SMOKE, MANUAL RESET. HARD WIRED INTERLOCK, ALARM.
GENERAL FIRE ALARM: ALL HVAC EQUIPMENT OFF.

SEQUENCE OF OPERATION CONTINUED

HEAT PUMP UNIT CONTROL (HPU–1)

THE HEAT PUMP UNIT (HPU) SHALL BE ENABLED/DISABLED ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE OR MANUAL TIMED OVER–RIDE. THE HEAT PUMP UNIT SHALL BE CAPABLE OF CONTROLLING THE ECONOMIZER DAMPERS, AND STAGES OF HEATING AND COOLING TO MAINTAIN ZONE TEMPERATURE SETPOINT, AND DEFROST MODE.

ZONE TEMPERATURE CONTROL:

OCCUPIED MODE: COOLING SETPOINT OF 78 DEG F (ADJ) AND HEATING SETPOINT OF 68 DEGREES F. (ADJ). A WARMER–COOLER ADJUSTER LOCATED ON THE ZONE SENSOR SHALL ALLOW THE OCCUPANT TO OFFSET THE OCCUPIED SETPOINT BY –3 TO +3 DEGREES F (ADJ).

UNOCCUPIED MODE: SETPOINT OF 50 DEG F (ADJ).

ECONOMIZER CONTROL:

WHEN THE SPACE SENSOR CALLS FOR COOLING AND THE OUTSIDE AIR DRY BULB IS EQUAL TO OR LESS THAN THE SPACE TEMPERATURE THE ECONOMIZER DAMPERS SHALL MODULATE TO PROVIDE COOLING AS REQUIRED. IF THE SPACE COOLING DEMAND CANNOT BE SATISFIED WITH 100% OUTSIDE AIR, MECHANICAL COOLING SHALL BE ENABLED. IF THE OUTSIDE AIR TEMPERATURE REACHES THE SPACE TEMPERATURE, THE ECONOMIZER DAMPERS SHALL BE POSITIONED TO MINIMUM OUTSIDE AIR SETPOINT LISTED IN HEAT PUMP UNIT SCHEDULE.

MODULATING POWER EXHAUST CONTROL:

FAN SPEED SHALL BE CONTROLLED VIA STATIC PRESSURE SENSOR TO MAINTAIN ROOM STATIC PRESSURE OF +0.03 INCHES OF WATER COLUMN.

MAKE–UP AIR UNIT CONTROL (MAU–1)

THE MAKE–UP UNIT (MAU) SHALL BE ENABLED/DISABLED ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE AND WHEN THE KITCHEN VENTILATION REMOTE CONTROL PANEL "FANS" PUSH BUTTON IS SELECTED ON/OFF (SEE CONTROL DIAGRAM FOR TABLE WITH KEF–AHU/MAU INTERLOCKS). THE MAKE–UP AIR UNIT SHALL BE CAPABLE OF CONTROLLING THE OUTSIDE AIR DAMPER, MODULATE THE HEATING WATER CONTROL VALVE, AND EVAPORATIVE COOLING TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT.

MAU SHUTDOWN CONTROL–UNOCCUPIED MODE/MANUAL OVER–RIDE:

THE OUTSIDE AIR DAMPER SHALL BE CLOSED, THE SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) SHALL BE OFF, THE HEATING CONTROL VALVE SHALL BE CLOSED, THE EVAPORATIVE COOLING SYSTEM SHALL BE OFF.

MAU STARTUP CONTROL–OCCUPIED MODE/UNOCCUPIED MODE/MANUAL OVER–RIDE:

THE OUTSIDE AIR DAMPER SHALL BE ENABLED, THE SUPPLY FAN VFD SHALL BE ENABLED, THE HEATING CONTROL VALVE SHALL BE ENABLED, THE EVAPORATIVE COOLING SYSTEM SHALL BE ENABLED.

FAN SYSTEMS CONTROL:

THE SUPPLY FAN VFD SHALL RUN ANYTIME THE MAU IS ON UNLESS SHUT DOWN ON SAFETIES. THE VFD SHALL BE PROGRAMMED THROUGH THE DRIVE CONTROLLER FOR SOFT START ACCORDING TO THE MANUFACTURE'S GUIDELINES. THE SUPPLY FAN VFD SPEED SHALL BE MODULATED TO MAINTAIN THE SUPPLY AIR DUCT STATIC PRESSURE SETPOINT OF 1.0" WG (ADJ). AT TIME OF AIR DISTRIBUTION SYSTEM BALANCE, THE TEST AND BALANCE CONTRACTOR SHALL ADJUST THE PRESSURE SETPOINT AS REQUIRED TO ACHIEVE SUPPLY AIR SYSTEM AIRFLOW. FAN FAILURE ALARM: COMMAND ON/STATUS OFF, VFD FAULT ALARM.

SUPPLY AIR TEMPERATURE CONTROL:

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET BASED UPON THE OUTSIDE AIR TEMPERATURE:

HEATING SETPOINT: 68 DEGREES F. OUTSIDE AIR TEMPERATURE 66 DEGREES F AND BELOW.
FREE COOLING/HEATING SETPOINT: 68 TO 85 DEGREES F. OUTSIDE AIR TEMPERATURE BETWEEN 68 DEGREES F AND 85 DEGREES F.
EVAPORATIVE COOLING SETPOINT: 75 DEGREES F. OUTSIDE AIR 87 DEGREES F. AND ABOVE.

HEATING WATER VALVE CONTROL

DURING A CALL FOR HEATING, THE DISCHARGE AIR SHALL BE MAINTAINED AT SUPPLY AIR SETPOINT TEMPERATURE BY MODULATING THE HEATING WATER CONTROL VALVE. IF THERE IS NO HEATING DEMAND, THEN THE HEATING WATER CONTROL VALVE SHALL RETURN TO THE NORMALLY CLOSED POSITION.

EVAPORATIVE COOLING CONTROL:

EVAPORATIVE COOLING WILL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE THE FREE COOLING/HEATING DISABLE TEMPERATURE AND THE MAU IS IN COOLING MODE. THE EVAPORATIVE COOLING SYSTEM WILL BE CONTROLLED BY THE MAU MANUFACTURE'S CONTROL ALGORITHM.

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH WILL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM WILL BE ANNUNCIATED.

SAFETIES:

LOW LIMIT TEMPERATURE: 38 DEGREES F (ADJ), MANUAL RESET, HARD WIRED INTERLOCK, ALARM.
SUPPLY AIR STATIC PRESSURE: 2.0" WG (ADJ), MANUAL RESET, ALARM.
SMOKE CONTROL: DETECTION OF SMOKE, MANUAL RESET. HARD WIRED INTERLOCK, ALARM.
GENERAL FIRE ALARM: ALL HVAC EQUIPMENT OFF.

KITCHEN EXHAUST FAN CONTROL (KEF–1, KEF–2, KEF–3)

THE KITCHEN EXHAUST FANS (KEF'S) SHALL BE ENABLED/DISABLED ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE AND WHEN THE KITCHEN VENTILATION REMOTE CONTROL PANEL "FANS" PUSH BUTTON IS SELECTED ON/OFF (SEE CONTROL DIAGRAM FOR TABLE WITH KEF–AHU/MAU INTERLOCKS), AND WHEN THE FIRE ALARM SYSTEM FIRE MODE REQUIRES KEF'S OPERATION (SEE KEH CONTROL DIAGRAM AND FIRE ALARM DETAIL FIRE SUPPRESSION PLAN).

DISHWASHING KITCHEN EXHAUST FAN CONTROL (KEF–4)

DISHWASHING KITCHEN EXHAUST FAN (KEF–4) SHALL BE BE ENABLED/DISABLED IN ASSOCIATION WITH THE AHU OPERATION ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE (SEE CONTROL DIAGRAM FOR TABLE WITH KEF–AHU ASSOCIATION). A MANUAL ON/OFF PUSH BUTTON WITH OPERATE THE FAN. FAN FAILURE ALARM: COMMAND ON/STATUS OFF.

ROOF EXHAUST FAN CONTROL (REF–1 THROUGH REF–5)

ROOF EXHAUST FANS (REF–1, REF–3, REF–4, REF–5) SHALL BE BE ENABLED/DISABLED IN ASSOCIATION WITH THE AHU'S/MAU OPERATION ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE (SEE CONTROL DIAGRAM FOR TABLE WITH REF–AHU/MAU ASSOCIATION). REF–2 SHALL BE CONTINUOUSLY ENABLED AND OPERATE WHEN THE ROOM SENSOR IS 85 DEGREES F. (ADJ) AND ABOVE. FAN FAILURE ALARM: COMMAND ON/STATUS OFF.

HEATING WATER PUMP CONTROL

THE HEATING WATER PUMP SHALL BE ENABLED WHEN THERE IS A HEATING DEMAND OR FOR FREEZE PROTECTION. THE PUMP VFD SPEED SHALL BE MODULATED TO MAINTAIN THE HEATING WATER DIFFERENTIAL PRESSURE SETPOINT OF 5.0 PSIG (ADJ). AT TIME OF HYDRONIC SYSTEM BALANCE, THE TEST AND BALANCE CONTRACTOR SHALL ADJUST THE DIFFERENTIAL PRESSURE SETPOINT AS REQUIRED TO ACHIEVE HEATING WATER SYSTEM FLOW RATES FOR EACH AHU AND MAU AND FOR THE TOTAL HYDRONIC SYSTEM. THE VFD SHALL BE PROGRAMMED THROUGH THE DRIVE CONTROLLER FOR SOFT START ACCORDING TO THE MANUFACTURE'S GUIDELINES. PUMP FAILURE ALARM: COMMAND ON/STATUS OFF, VFD FAULT ALARM.

FREEZE PROTECTION: OUTSIDE AIR TEMPERATURE = 32 DEGREES F. OR LOWER (ADJ) PUMP ENABLED.

DOMESTIC WATER PUMP CONTROL

THE DOMESTIC WATER CIRCULATION PUMPS SHALL BE ENABLED/DISABLED BASED UPON THE OCCUPIED/UNOCCUPIED SCHEDULE OR THROUGH THE OPERATOR INTERFACE. EACH CIRCULATION PUMP IS PROVIDED WITH A MFR'S TEMPERATURE CONTROLLER THAT INCLUDES AN AQUASTAT WITH THERMISTOR TO BE MOUNTED ON THE DOMESTIC HOT WATER RETURN PIPING. EACH TEMPERATURE CONTROLLER SHALL BE SET FOR THE FOLLOWING DOMESTIC HOT WATER RETURN TEMPERATURE OPERATION:

115 DEGREES F. SYSTEM: 110 DEGREES F. OR LOWER = ON / 115 DEGREES F. = OFF.
140 DEGREES F. SYSTEM: 135 DEGREES F. OR LOWER = ON / 140 DEGREES F. = OFF.

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STEPHEN R. ZAGYI
No. M31782
Exp. 09–30–2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

MECHANICAL CONTROLS
FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
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REVISIONS

REV.	DATE	DESCRIPTION

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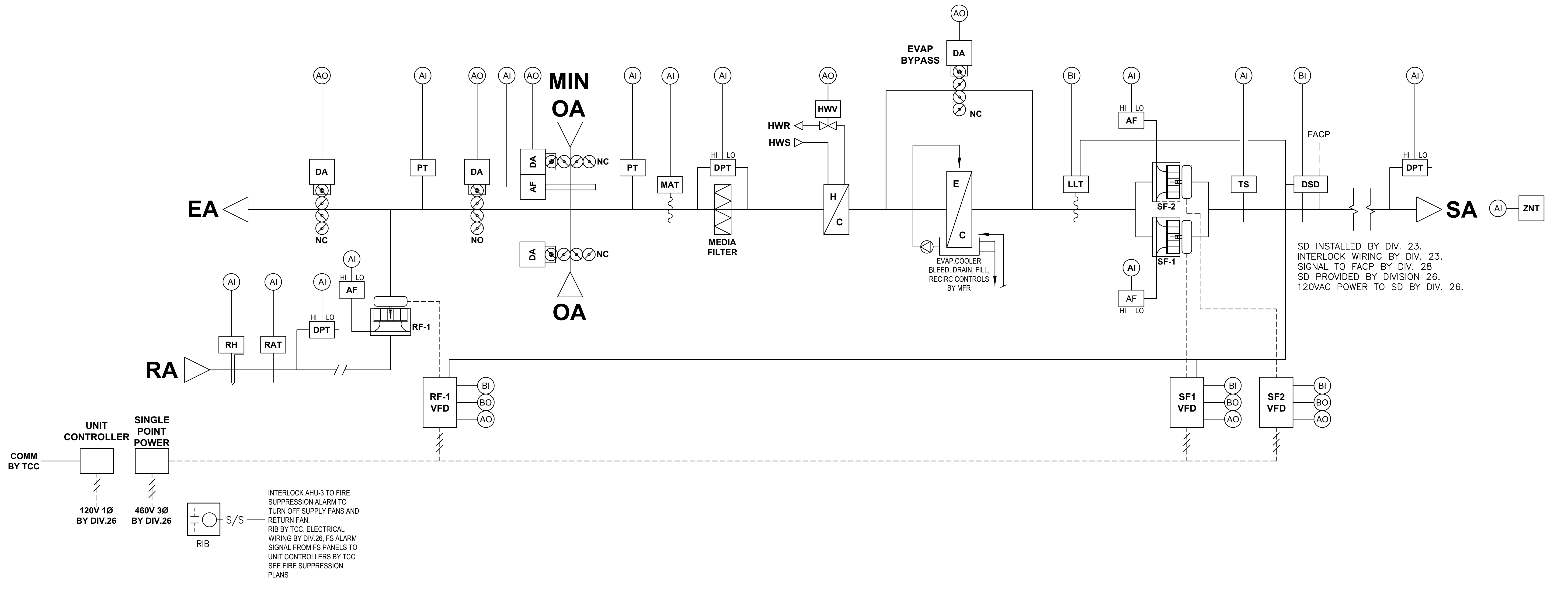


EVAP.COOLER
BLEED, DRAIN, FILL,
RECIRC CONTROLS
BY MFR

SD INSTALLED BY DIV. 23.
INTERLOCK WIRING BY DIV. 23.
SIGNAL TO FACP BY DIV. 28
SD PROVIDED BY DIVISION 26.
120VAC POWER TO SD BY DIV. 26.

INTERLOCK AHU-3 TO FIRE SUPPRESSION ALARM TO TURN OFF SUPPLY FANS AND RETURN FAN.
RIB BY TCC. ELECTRICAL WIRING BY DIV.26, FS ALARM SIGNAL FROM FS PANELS TO UNIT CONTROLLERS BY TCC SEE FIRE SUPPRESSION PLANS

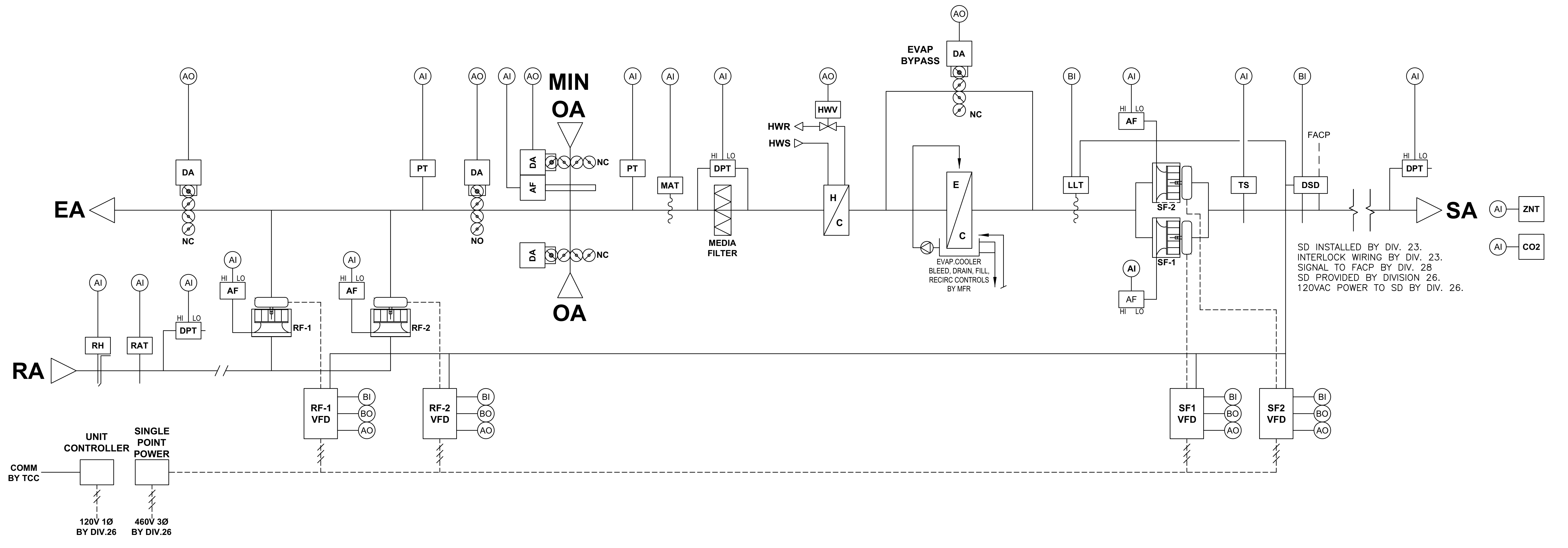
CONTROLLER POINT SCHEDULE

TYPE	DESCRIPTION
AI	OUTDOOR AIR TEMPERATURE
AI	RETURN AIR RELATIVE HUMIDITY
AI	RETURN AIR TEMPERATURE
AI	RETURN AIR PRESSURE
AI	MIXED AIR TEMPERATURE
AI	SUPPLY AIR TEMPERATURE
AI	MINIMUM OUTDOOR AIR AIRFLOW
AI	RETURN FAN 1 AIRFLOW
AI	SUPPLY FAN 1 AIRFLOW
AI	SUPPLY FAN 2 AIRFLOW
AI	RETURN PLENUM PRESSURE
AI	MIXED AIR PLENUM PRESSURE
AI	FILTER DIFFERENTIAL PRESSURE
AI	SUPPLY AIR PRESSURE
AI	ZONE TEMPERATURE
BI	RETURN FAN 1 STATUS
BI	SUPPLY FAN 1 STATUS
BI	SUPPLY FAN 2 STATUS
BI	LOW LIMIT ALARM
BI	SMOKE DETECTOR ALARM
AO	EXHAUST AIR DAMPER
AO	RETURN AIR DAMPER
AO	OUTSIDE AIR DAMPER
AO	MINIMUM OUTSIDE AIR DAMPER
AO	RETURN FAN 1 SPEED COMMAND
AO	SUPPLY FAN 1 SPEED COMMAND
AO	SUPPLY FAN 2 SPEED COMMAND
AO	HOT WATER VALVE COMMAND
BO	RETURN FAN 1 COMMAND
BO	SUPPLY FAN 1 COMMAND
BO	SUPPLY FAN 2 COMMAND

AIR HANDLING UNIT 3 CONTROL DETAIL

NTS

2



EVAP.COOLER
BLEED, DRAIN, FILL,
RECIRC CONTROLS
BY MFR

SD INSTALLED BY DIV. 23.
INTERLOCK WIRING BY DIV. 23.
SIGNAL TO FACP BY DIV. 28
SD PROVIDED BY DIVISION 26.
120VAC POWER TO SD BY DIV. 26.

CONTROLLER POINT SCHEDULE

TYPE	DESCRIPTION
AI	OUTDOOR AIR TEMPERATURE
AI	RETURN AIR RELATIVE HUMIDITY
AI	RETURN AIR TEMPERATURE
AI	RETURN AIR TEMPERATURE
AI	MIXED AIR PRESSURE
AI	SUPPLY AIR TEMPERATURE
AI	MINIMUM OUTDOOR AIR AIRFLOW
AI	RETURN FAN 1 AIRFLOW
AI	RETURN FAN 2 AIRFLOW
AI	SUPPLY FAN 1 AIRFLOW
AI	SUPPLY FAN 2 AIRFLOW
AI	RETURN PLENUM PRESSURE
AI	MIXED AIR PLENUM PRESSURE
AI	FILTER DIFFERENTIAL PRESSURE
AI	SUPPLY AIR PRESSURE
AI	ZONE TEMPERATURE
AI	CARBON DIOXIDE LEVEL
BI	RETURN FAN 1 STATUS
BI	RETURN FAN 2 STATUS
BI	SUPPLY FAN 1 STATUS
BI	SUPPLY FAN 2 STATUS
BI	LOW LIMIT ALARM
BI	SMOKE DETECTOR ALARM
AO	EXHAUST AIR DAMPER
AO	RETURN AIR DAMPER
AO	OUTSIDE AIR DAMPER
AO	MINIMUM OUTSIDE AIR DAMPER
AO	RETURN FAN 1 SPEED COMMAND
AO	RETURN FAN 2 SPEED COMMAND
AO	SUPPLY FAN 1 SPEED COMMAND
AO	SUPPLY FAN 2 SPEED COMMAND
AO	HOT WATER VALVE COMMAND
BO	RETURN FAN 1 START/STOP
BO	RETURN FAN 2 START/STOP
BO	SUPPLY FAN 1 START/STOP
BO	SUPPLY FAN 2 START/STOP

AIR HANDLING UNIT 1 AND 2 CONTROL DETAIL

NTS

1

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No. M31782
Exp. 09-30-2025

STEPHEN R. ZAGYI
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STEVEN BAYANATI
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COR
24-014

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REV.	DATE	DESCRIPTION

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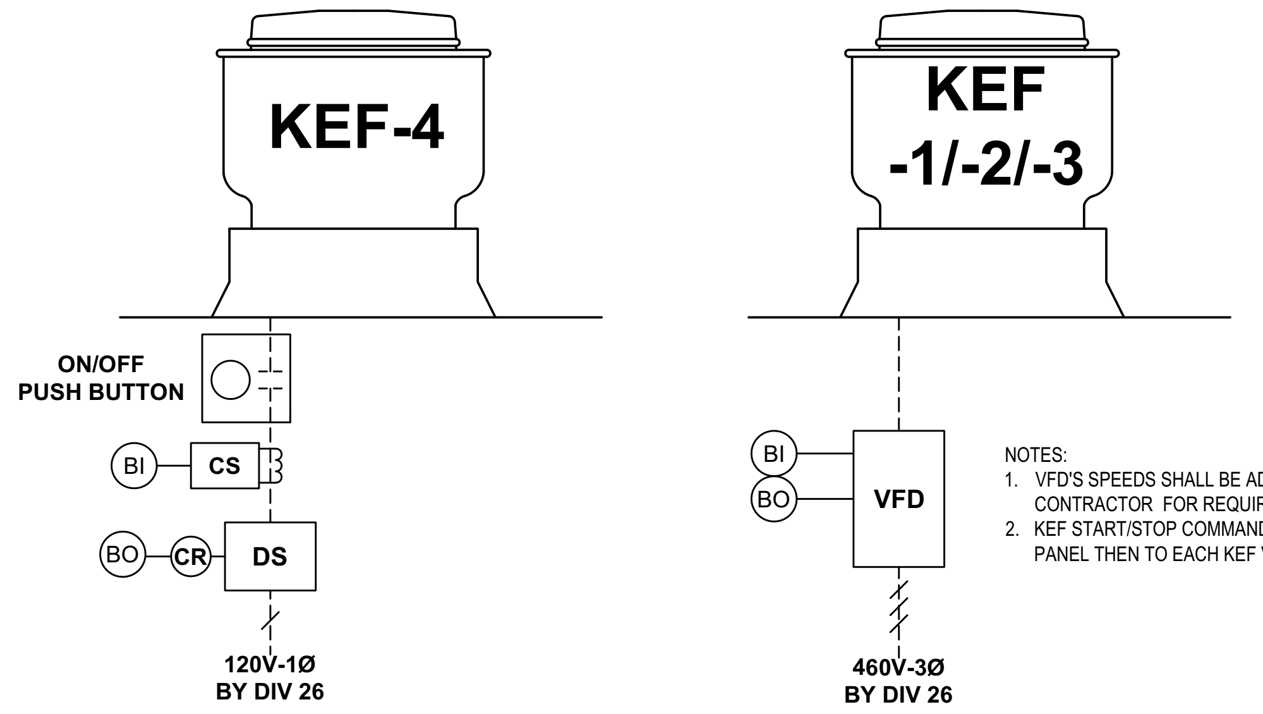
OF # SHEETS V3



NOTES:
1. VFD'S SPEEDS SHALL BE ADJUSTED/SET BY TAB CONTRACTOR FOR REQUIRED AIRFLOW RATE.
2. KEF START/STOP COMMAND TO EACH KEH CONTROL PANEL THEN TO EACH KEF VFD.

**KEF-1/-2/-3
CONTROL SCHEDULE**

KEF	AHU
KEF-1	INTERLOCK WITH MAU-1/AHU-3 OPERATION
KEF-2	INTERLOCK WITH MAU-1/AHU-3 OPERATION
KEF-3	INTERLOCK WITH MAU-1/AHU-3 OPERATION
KEF-4	INTERLOCK WITH AHU-3 OPERATION

**KEF-1/-2/-3
CONTROLLER POINT SCHEDULE**

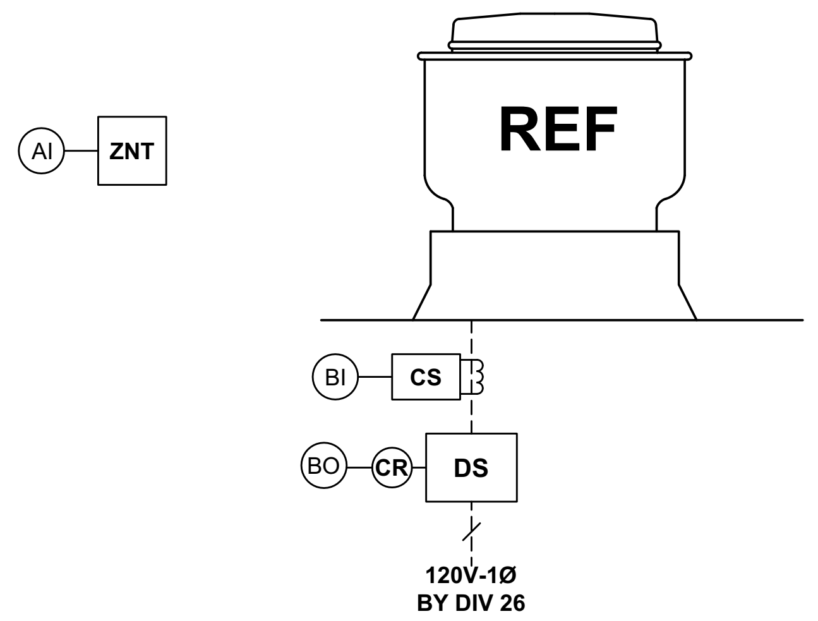
TYPE	DESCRIPTION
BI	KEF STATUS
BO	KEF START/STOP (FROM KEH-1/-2/3 CONTROL PANELS)

**KEF-4
CONTROLLER POINT SCHEDULE**

TYPE	DESCRIPTION
BI	KEF STATUS
BO	KEF ENABLE/DISABLE

KEF CONTROL DETAIL

NTS 4



**REF
CONTROL SCHEDULE**

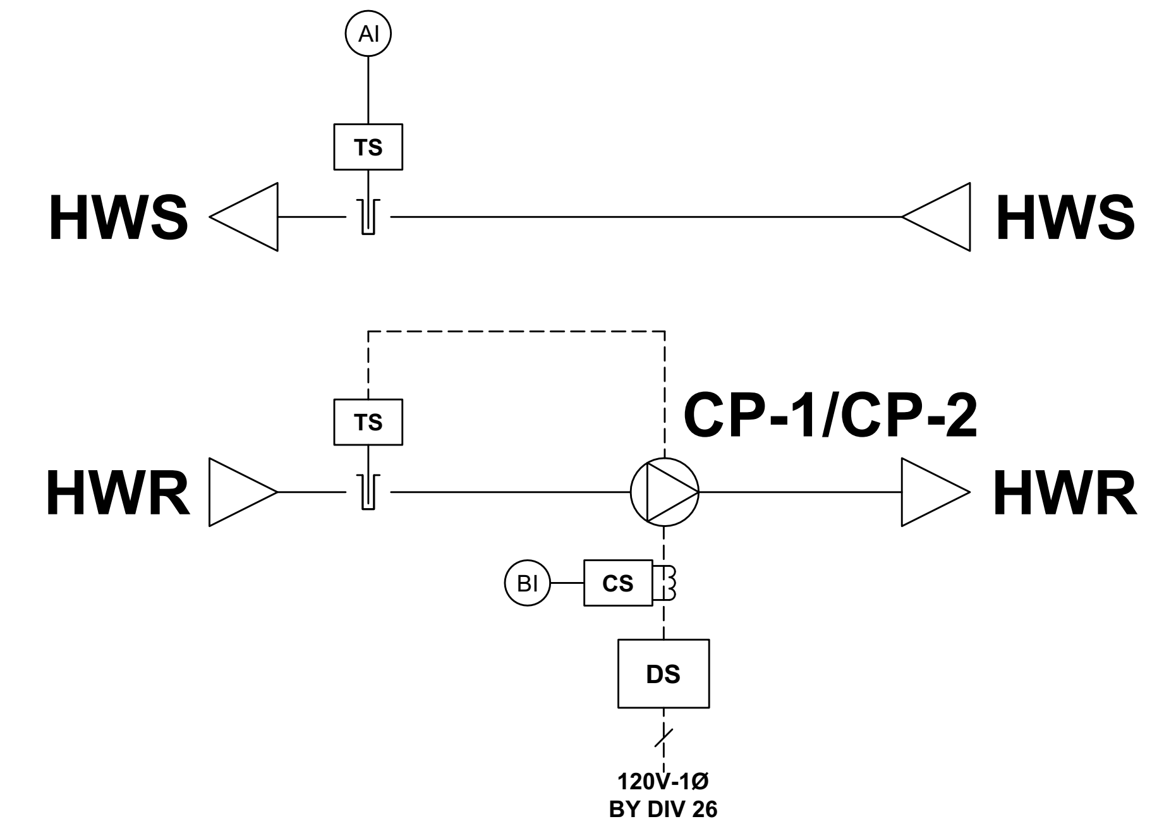
REF	AHU
REF-1	ENABLE/DISABLE WITH AHU-3 OPERATION
REF-2	ENABLE/DISABLE AT ROOM TEMP ABOVE 85F (ADJ)
REF-3	ENABLE/DISABLE WITH AHU-3 OPERATION
REF-4	ENABLE/DISABLE WITH AHU-1 OPERATION
REF-5	ENABLE/DISABLE WITH AHU-2 OPERATION

**REF
CONTROLLER POINT SCHEDULE**

TYPE	DESCRIPTION
AI	ZONE TEMP (REF-2 ONLY)
BI	REF STATUS
BO	REF START/STOP

REF CONTROL DETAIL

NTS 5

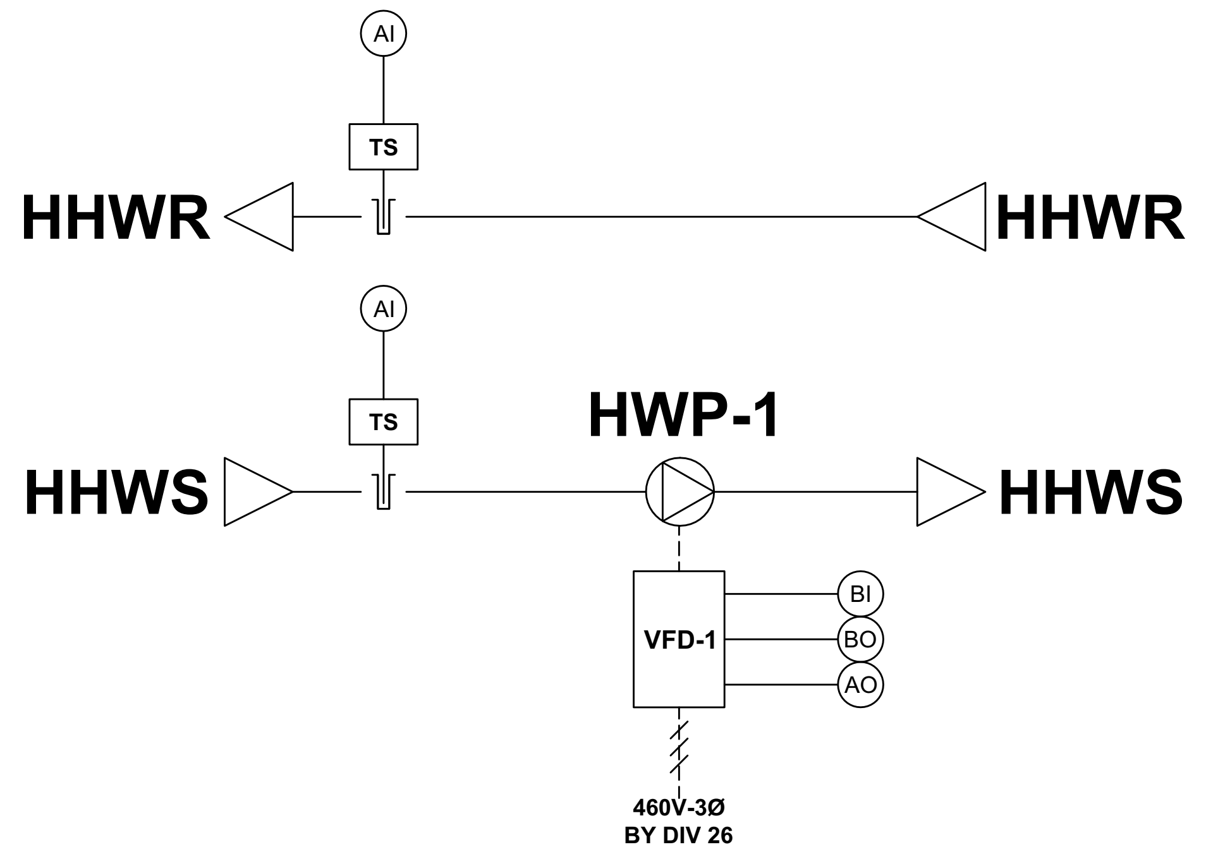


**DOMESTIC WATER
CONTROLLER POINT SCHEDULE**

TYPE	DESCRIPTION
AI	DISHWASHING DOMESTIC HOT WATER SUPPLY TEMP.
AI	BUILDING DOMESTIC HOT WATER SUPPLY TEMP.
BI	CP-1 DOMESTIC WATER PUMP STATUS
BI	CP-2 DOMESTIC WATER PUMP STATUS

DOMESTIC WATER PUMP CONTROL DETAIL

NTS 6

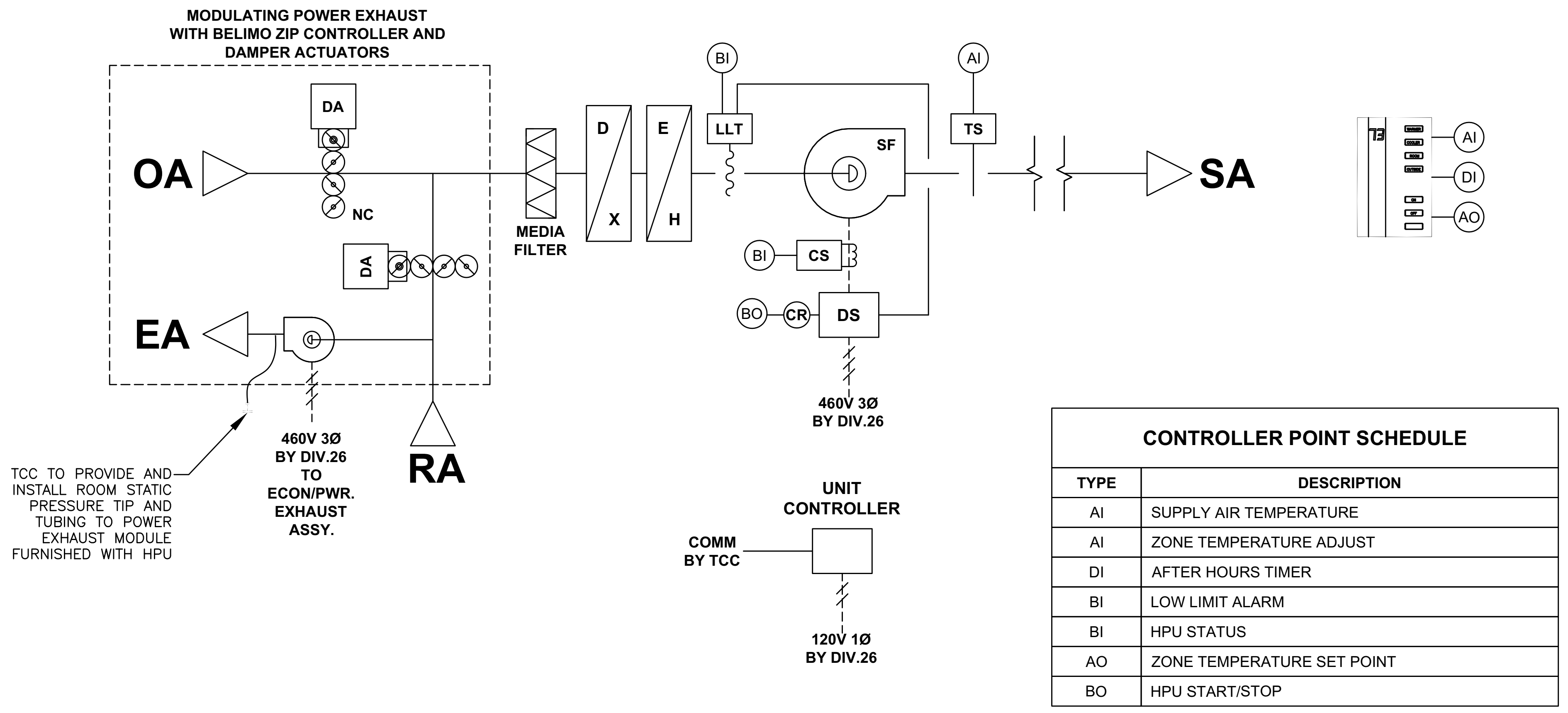


**HEATING WATER PUMP
CONTROLLER POINT SCHEDULE**

TYPE	DESCRIPTION
AI	HEATING WATER RETURN TEMP.
AI	HEATING WATER SUPPLY TEMP.
BI	HEATING WATER PUMP STATUS
AO	HEATING WATER PUMP SPEED
BO	HEATING WATER PUMP START/STOP

HEATING WATER PUMP CONTROL DETAIL

NTS 7


MODULATING POWER EXHAUST WITH BELIMO ZIP CONTROLLER AND DAMPER ACTUATORS
DA
OA
NC
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MEDIA FILTER
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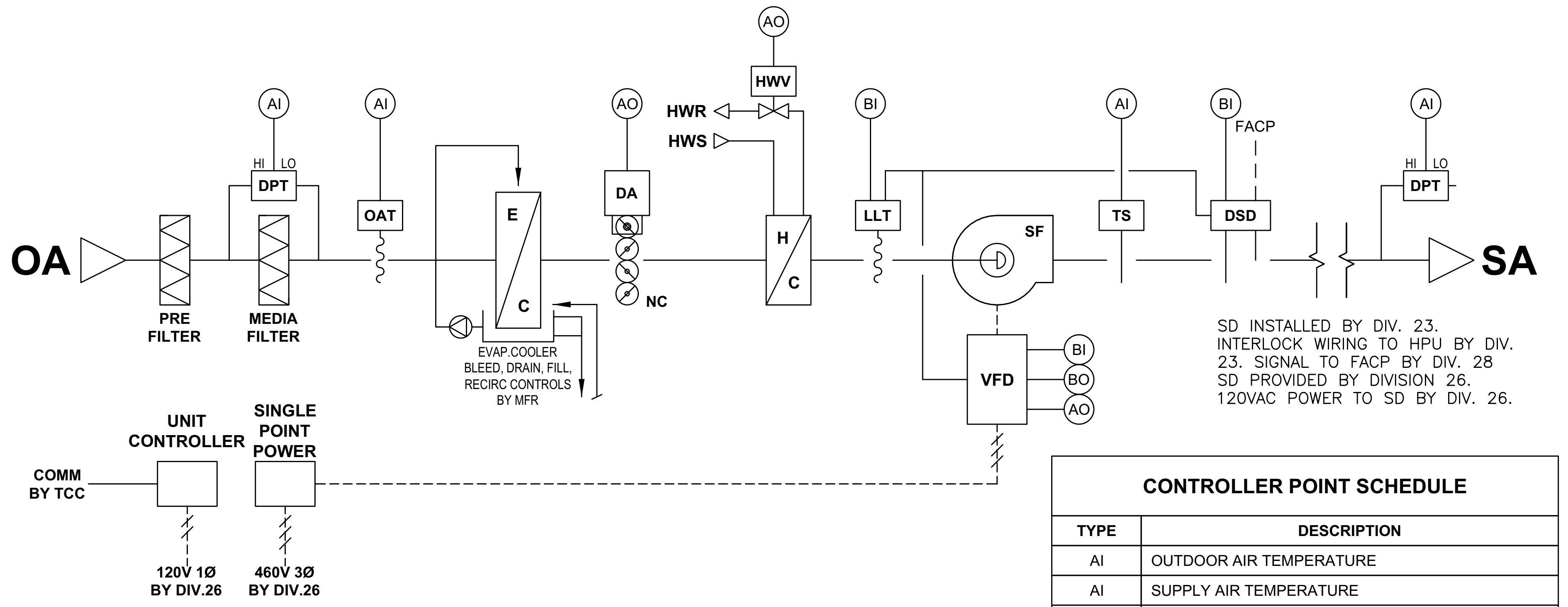
H
BI
LLT
SF
BI
CS
BO
CR
DS
460V 3Ø BY DIV.26
AI
TS
SA
AI
DI
AO
RA
TCC TO PROVIDE AND INSTALL ROOM STATIC PRESSURE TIP AND TUBING TO POWER EXHAUST MODULE FURNISHED WITH HPU
460V 3Ø BY DIV.26 TO ECON/PWR. EXHAUST ASSY.
UNIT CONTROLLER
COMM BY TCC
120V 1Ø BY DIV.26

CONTROLLER POINT SCHEDULE

TYPE	DESCRIPTION
AI	SUPPLY AIR TEMPERATURE
AI	ZONE TEMPERATURE ADJUST
DI	AFTER HOURS TIMER
BI	LOW LIMIT ALARM
BI	HPU STATUS
AO	ZONE TEMPERATURE SET POINT
BO	HPU START/STOP

HEAT PUMP UNIT CONTROL DETAIL

NTS 1



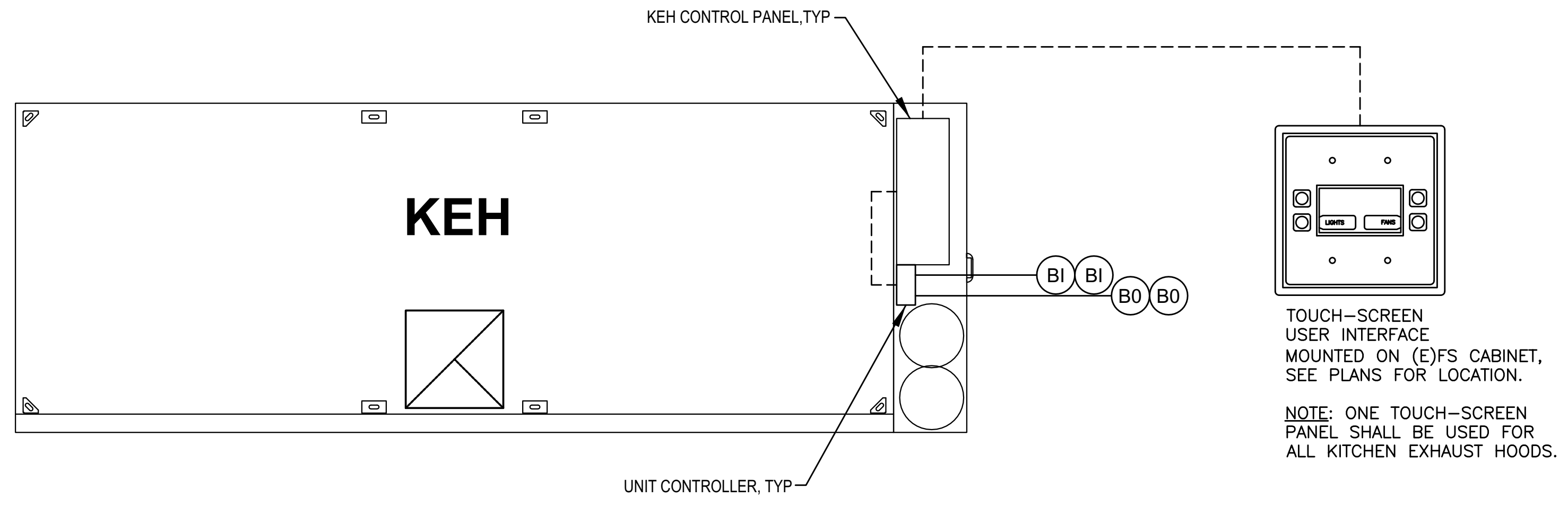
SD INSTALLED BY DIV. 23. INTERLOCK WIRING TO HPU BY DIV. 23. SIGNAL TO FACP BY DIV. 28 SD PROVIDED BY DIVISION 26. 120VAC POWER TO SD BY DIV. 26.

CONTROLLER POINT SCHEDULE

TYPE	DESCRIPTION
AI	OUTDOOR AIR TEMPERATURE
AI	SUPPLY AIR TEMPERATURE
AI	FILTER DIFFERENTIAL PRESSURE
AI	SUPPLY AIR PRESSURE
BI	SUPPLY FAN STATUS
BI	LOW LIMIT ALARM
BI	SMOKE DETECTOR ALARM
AO	SUPPLY FAN SPEED COMMAND
AO	HOT WATER VALVE COMMAND
BO	SUPPLY FAN START/STOP (FROM KEH CONTROL PANELS VIA PUSH BUTTONS/FIRE MODE RELAYS)

MAKE-UP AIR UNIT CONTROL DETAIL

NTS 2



TOUCH–SCREEN USER INTERFACE MOUNTED ON (E)FS CABINET, SEE PLANS FOR LOCATION.

NOTE: ONE TOUCH–SCREEN PANEL SHALL BE USED FOR ALL KITCHEN EXHAUST HOODS.

NOTES:
1. KEH'S CONTROL PANELS INCLUDES EXHAUST FANS CONTACT, SUPPLY FANS CONTACT, FIRE MODE (BUILDING/FIRE STATS/PULL STATION): EXHAUST FANS ON / LIGHTS OFF / SUPPLY FANS OFF, DUCT TEMPERATURE SENSOR SWITCH FOR EXHAUST FANS ON AND SUPPLY FANS ON.

**KEH-1/-2/-3
CONTROLLER POINT SCHEDULE**

TYPE	DESCRIPTION
BI	KEF'S START/STOP (FROM KEH CONTROL PANELS VIA PUSH BUTTONS/FIRE MODE RELAYS)
BI	MAU-1 / AHU-3 START/STOP (FROM KEH CONTROL PANELS VIA PUSH BUTTONS/FIRE MODE RELAYS)
BO	KEF'S START/STOP
BO	MAU-1/AHU-3 START/STOP

KITCHEN HOOD CONTROL DETAIL

NTS 3

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No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
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MECHANICAL CONTROLS
FACILITY III A KITCHEN REPAIRS

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REVISIONS

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OF # SHEETS V3

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR CODES AS ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONSULTANTS AND OWNER SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL WORK PERFORMED AND ALL EQUIPMENT AND MATERIALS FURNISHED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE CDCR REPRESENTATIVE.

6. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR ON PROJECT.

8. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

9. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL NEW HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.

10. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF THE RENOVATION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN THE APPROVED MANNER FOR WHICH THEY ARE DESIGNED.

11. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES AND DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN AUTOCAD FORMAT. CONTRACTOR HAND MARKED REDLINED AS-BUILT DRAWINGS WILL NOT BE ACCEPTED.

12. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.

13. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE CDCR REPRESENTATIVE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK SHALL BE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, CDCR NEEDS ADVANCE NOTICE PER CDCR APPROVE SCHEDULE.

14. THE ARRANGEMENT OF EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND ADDITIONS.

15. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND INSTALLATION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE CDCR REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.

16. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF HIS WORK.

17. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.

18. PLAN CHECK AND INSPECTION FEES SHALL BE PAID BY CDCR. CONTRACTOR SHALL PAY ALL OTHER FEES ACCORDING TO CONTRACT.

19. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.

20. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

21. GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS, AND CONSTRUCTED, SUPPORTED AND INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.

22. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.

23. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT, IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITION(S) OF THE CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.

24. ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.

25. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

24. PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS:

A. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, OR AS DETAILED AND SPECIFIED HEREIN.

B. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER.

C. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

27. CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD AND CDCR REPRESENTATIVE.

28. ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.

29. ALL CONDUIT AND WIRE REQUIRED FOR THE NEW CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CDCR APPROVED CONTROLS CONTRACTOR.

30. ALL DUCTWORK AND PIPING INSULATION SHALL MEET FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM E-84, NFPA 255 AND UL 723 AND SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.

31. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ROUTING OF ALL DUCTWORK AND PIPING AND SUBMIT DETAILED, CLEARLY LEGIBLE, FULL SIZE (MINIMUM 30"x42") DUCT AND PIPING SHOP DRAWINGS IN AUTOCAD FORMAT FOR APPROVAL FROM THE ENGINEER PRIOR TO FABRICATION, CONSTRUCTION AND INSTALLATION OF DUCTWORK AND PIPING.

32. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF COMPONENTS AT LEAST TWO WEEKS PRIOR TO INSTALLATION.

33. CDCR REPRESENTATIVE SHALL INSPECT AND APPROVE OF ALL WORK BEFORE COVERING WITH INSULATION OR INSTALLATION WITHIN CEILING SPACE.

34. APPROVAL OR DISAPPROVAL BY THE INSPECTOR OF RECORD DOES MEAN APPROVAL OR FAILURE TO COMPLY WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS NOT CLEAR OR IS AMBIGUOUS SHALL BE REFERRED TO THE CONSULTANTS AND OWNER FOR INTERPRETATION OR CLARIFICATION.

35. CONTRACTOR SHALL USE ALL NECESSARY APPROVED MEANS TO PROTECT HIS PORTION OF THE WORK BEFORE, DURING, AND AFTER INSTALLATION, UNTIL ACCEPTED, AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF OTHER TRADES IN A LIKE MANNER. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL MAKE ALL REQUIRED REPAIRS AND REPLACEMENTS TO THE SATISFACTION OF THE CONSULTANTS AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

36. NEITHER THE ARCHITECT OR OWNER NOR CONSULTANTS OF THE ARCHITECT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL SUCH MATTERS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

37. A MINIMUM OF 36" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT PROTECTION DEVICES, AND ELECTRICAL CONTROL COMPONENTS.

38. CONTRACTOR SHALL OBTAIN AND FOLLOW ALL CDCR REQUIREMENTS, GUIDELINES, RULES, AND PROCEDURES FOR CONSTRUCTION. PROVIDE INSURANCE IN ACCORDANCE WITH CDCR REQUIREMENTS.

39. DEMOLITION OF ANY EXISTING AC UNITS, DUCTWORK, AND PIPING SHALL BE COORDINATED WITH CDCR FACILITIES AND OPERATIONS. CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE SHUT-DOWN OF EXISTING UNITS.

40. EXISTING SURFACES AND AREAS NOT INCLUDED IN THE WORK AREA SHALL BE PROTECTED FROM DAMAGE BY APPROVED MEANS. IF DAMAGE OCCURS, THE DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO SATISFACTION OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

41. REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS PROJECT AND LEAVE THE PREMISES CLEAN AND ORDERLY UPON COMPLETION OF WORK.

42. UPON COMPLETION OF PIPING, BUT PRIOR TO APPLICATION OF INSULATION, THE CONTRACTOR SHALL TEST THE PIPING SYSTEMS FOR LEAKS. EQUIPMENT WHICH MAY BE DAMAGED BY THE SPECIFIED TEST CONDITIONS SHALL BE ISOLATED.

43. IDENTIFY ALL PIPES WITH MATERIAL CARRIED AND DIRECTION OF FLOW. CONFORM TO ANSI A13.1.

44. ON INSULATED PIPING: ALL VALVES HANDLES, AIR VENTS AND PRESSURE/TEMPERATURE READOUT PORTS TO BE PROVIDED WITH 2" EXTENSION TO CLEAR PIPING INSULATION.

45. CDCR NEED ADVANCE NOTICE PER CDCR APPROVE SCHEDULE FOR THE SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM.

46. INDEPENDENT BALANCING AND TESTING CONTRACTOR SHALL PROVIDE WRITTEN WATER AND AIR BALANCE REPORT FOR ALL HVAC EQUIPMENT INCLUDED IN THIS PROJECT.

47. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE ALL WORK SCHEDULE WITH CDCR REPRESENTATIVE. SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM SHALL BE SCHEDULED FOR WEEKENDS OR AFTER BUSINESS HOURS. THE CONTRACTOR SHALL SUBMIT TO CDCR REPRESENTATIVE A PLAN, TWO-WEEKS IN ADVANCE, IDENTIFYING SERVICES TO BE DISRUPTED, DATES, TIMES AND DURATION OF SERVICES SHUTDOWN.

48. SHUT-DOWN ALL AIR HANDLING UNITS PRIOR TO CONSTRUCTION COMMENCEMENT. ALL OPEN ENDS OF INSTALLED SUPPLY, RETURN, EXHAUST DUCTWORK SHALL BE SEALED BY CONTRACTOR WITH PLASTIC MATERIAL TO PREVENT CONTAMINATION, UNTIL START-UP OR TESTING/OPERATION OF THE SYSTEM. CDCR NEEDS ADVANCE NOTICE OF SHUTDOWN PER CDCR APPROVE SCHEDULE.

LEGEND

SYMBOL	ITEM	ABBR.
1 P-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
-CW---	DOMESTIC COLD WATER	CW
-TW----	DOMESTIC TEMPERRED WATER	TW
—--—	DOMESTIC HOT WATER SUPPLY	HWS
—----—	DOMESTIC HOT WATER RETURN	HWR
---V---	VENT	V
—G—	GAS	G
—MG—	MEDIUM PRESSURE GAS	MG
—LPG—	LIQUID PROPANE GAS	LPG
—SS—	SANITARY SEWER	SS
—GW—	GREASE WASTE	GW
—OS—	OIL/SAND WASTE	OS
—CWV—	COMBINATION WASTE VENT	CWV
—SD—	STORM DRAIN	SD
—RD—	ROOF DRAIN	RD
—OD—	OVERFLOW DRAIN	OD
—C—	CONDENSATE DRAIN	C
—D—	SECONDARY DRAIN	D
—T&P—	TEMPERATURE & PRESSURE RELIEF	T&P
—FS—	FIRE SPRINKLER	FS
——∃	PIPE CAP	
——o	PIPE RISER/DROP	(R)/(D)
—⊗—	SHUT-OFF VALVE IN BOX	SOV
FCO ⏀—	FLOOR CLEANOUT	FCO
COTG⏀—	CLEANOUT TO GRADE	COTG
o⊣|	WALL CLEANOUT	WCO
⊣	CLEANOUT	CO
o—┼	HOSE BIBB	HB
o—▷	OVERFLOW DRAIN OUTLET	
⎍	BALL VALVE	BV
⋈	GATE VALVE	GV
⋈	CHECK VALVE	CHK.V
⋈	MIXING VALVE	TMV
▽	SHUT-OFF COCK	SOC
⊳	CIRCULATION PUMP	CP
⋈	BALANCING VALVE	BLV
⚬⚬	TRAP PRIMER	TP
	CONTROL VALVE	CV
	EVAPORATOR UNIT	EU
	FLUSH VALVE	FV
	HEAT EXCHANGER	HX
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	ABC
	TO ABOVE/BELOW	TA/TB
	STORAGE TANK	ST
	FROM ABOVE/BELOW	FA/FB
——⌇	CONTINUATION	CONT.
	NEW	(N)
——	EXISTING	(E)
	LAVATORTY	L OR LAV
	URINAL	UR
	WATER CLOSET	WC
	WATER CLOSET LAVATORY	WCL
—◕—	POINT OF DIS/CONNECTION	POD/POC

CODE COMPLIANCE NOTES

1. KITCHEN EQUIPMENT UNDER THE HOODS SHOULD BE INSIDE EACH HOOD (AREA) PARAMETER NFPA 96: 4.3.4 AND CMC 508.0, 2022-HOODS.

2. STUDY AND IMPROVE THE FIRE PROTECTION SYSTEM, FIRE SPRINKLER SYSTEM AND FIRE AND SMOKE DETECTORS PER FIRE CODE REQUIREMENT FOR ALL KITCHEN AND BAKERY KITCHENS FOR ALL FACILITIES AT COR: CMC 513.2.2, AND NFPA 13.

3. REMOVE ALL BROKEN KITCHEN EQUIPMENT FROM HOOD KITCHEN AREA AT EACH FACILITY AT COR FOR CDCR SECURITY/SAFETY CONCERNS.

4. BEFORE NEW SYSTEM INSTALLATION, PROVIDE CLEANING REQUIREMENTS FOR EACH HOOD SYSTEM AT EACH KITCHEN FACILITY AT COR AND ALL RECORDS SHALL STATE THE EXTENT, TIME, AND DATE OF CLEANING. SUCH RECORDS SHALL BE MAINTAINED ON THE PREMISES: CMC 514.3, CFC 904.1, CCR 19 DIV.1 904.(a)(2).

5. PROVIDE/CHECK FOR AN EXHAUST AIR-DUCT SYSTEM AND AIR INTAKE (MAKE-UP AIR) DUCT SYSTEM FOR EACH EXISTING KITCHEN HOOD: CMC 507.0.

6. INSTALL AUTOMATIC GAS SHUTOFF DEVICE FOR KITCHEN EQUIPMENT AND THE MAIN GAS SHUT-OFF DEVICE SHALL REQUIRE A MANUAL RESET: 2022 CFC 904.13.2 AND CMC 513.4 FUEL SHUT-OFF DEVICE.

7. FOR NEW SYSTEMS, THE TEST RECORDS SHALL BE RETAINED FOR A PERIOD BETWEEN THE SEMI-ANNUAL MAINTENANCE & THE INSPECTIONS, SHALL BE RECORDED AND STATE THE EXTENT, TIME, AND DATE OF MAINTENANCE INSPECTIONS. SUCH RECORDS SHALL BE MAINTAINED ON PREMISES: NFPA 17A 8.2.6 AND 8.3.3.6, AND CMC 516.6.

8. TEST EACH NEW FIRE SUPPRESSION SYSTEM FOR ALL KITCHEN HOODS AT EACH FACILITY AT COR IN ORDER TO MAKE SURE EACH NEW FIRE SUPPRESSION SYSTEM IS WORKING UNDER NORMAL OPERATION CONDITIONS: CMC 514.0 AND NFPA 96 12.2.

9. THE AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM (SEE FIRE ALARM SEQUENCE OF OPERATIONS MATRIX ON FIRE ALARM PLANS). ELECTRICAL POWER TO THE FIRE ALARM SYSTEM SHALL ALSO BE CONNECTED TO THE EXISTING STANDBY ELECTRICAL POWER SUPPLY PROVIDED BY AN EXISTING INSTITUTION WIDE EMERGENCY GENERATOR.

10. THE MAIN AUTOMATIC GAS SHUT-OFF DEVICE AND GAS VALVE FOR ALL KITCHEN EQUIPMENT MUST BE VISIBLE PER CMC 513.4 FUEL SHUTOFF SYSTEM AND MANUALLY RESET PER 2022 CMC 513.4.3.

DRAWING LEGEND

NUMBER	SHEET TITLE
P0.1	GENERAL NOTES, SYMBOLS, ABBREVIATIONS & LEGENDS
P0.2	PLUMBING SCHEDULES
P1.0	PLUMBING ENLARGED FLOOR PLAN – DEMOLITION
P1.1	PLUMBING ENLARGED FLOOR PLAN – DEMOLITION
P1.2	PLUMBING ENLARGED FLOOR PLAN – DEMOLITION
P1.3	PLUMBING ENLARGED MEZZANINE PLAN – DEMOLITION
P1.4	PLUMBING ROOF PLAN – DEMOLITION
P2.0	PLUMBING ENLARGED FLOOR PLAN – NEW
P2.1	PLUMBING ENLARGED FLOOR PLAN – NEW
P2.2	PLUMBING ENLARGED FLOOR PLAN – NEW
P2.3	PLUMBING ENLARGED MEZZANINE PLAN – NEW
P2.4	PLUMBING ROOF PLAN – NEW
P5.1	PLUMBING DETAILS
P5.2	PLUMBING DETAILS

APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022	CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022	CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2021 NATIONAL ELECTRICAL CODE (NEC)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021UNIFORM MECHANICAL CODE (UMC)
2022	CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022	CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2020	NFPA 17A WITH CALIFORNIA AMENDMENTS
2022	NFPA 72 WITH CALIFORNIA AMENDMENTS
2021	NFPA 96 WITH CALIFORNIA AMENDMENTS
	CALIFORNIA CODE OF REGULATIONS – TITLE 19 PUBLIC SAFETY, DIVISION 1, STATE FIRE MARSHAL

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

PLUMBING LEGEND AND NOTES

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\P0.1 PLMB LEGEND-NOTES.DWG

REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
P0.1
OF # SHEETS V3

WATER AND WASTE MAINS CALCULATIONS

JOB NAME: COR BLDG 307C DATE 06/12/24

USE	FIXTURE TYPE	NO.	WASTE FU	WASTE TOTAL	WATER BOTH FU	WATER CW FU	WATER HW FU	WATER TOTAL
	HOSE BIBB (FIRST)	1	0	0	2.5	2.5		2.5
	HOSE BIBB (ADDITIONAL)	3	0	0	1	1.0		3
	DISHWASHER (DOMESTIC)	1	2	2	1.5	1.1	1.1	1.5
	LAVATORY (SINGLE)	2	1	2	1	0.8	0.8	2
U	SERVICE SINK	2	3	6	3	2.3	2.3	6
	FLOOR DRAIN	11	2	22	0			0
	FLOOR SINK RECEPTOR	11	3	33	0			0
A	SINK, 1-1/2" TRAP	3	3	9	2	1.5	1.5	6
U	SINK, 2" TRAP	3	4	12	2	1.5	1.5	6
U	WATER CLOSET, FLUSH VALVE	2	4	8	5	5.0		10
	3-COMPARTMENT SINK	1	4	4	2	1.5	1.5	2
	TOTAL FIXTURE UNITS			98.0			17.6	39.0
	EQUIVALENT COLD WATER FLOW RATE (GPM):							47
	ADDITIONAL WATER DEMAND LOAD (GPM)							
	AVAILABLE STATIC PRESSURE IN WATER MAIN (PSI)							50
	MINIMUM REQUIRED FIXTURE PRESSURE (PSI):							25
	ELEVATION RISE (FT):							5
	METER LOSS (PSI):							4.0
	BACKFLOW PREVENTER LOSS (PSI):							11.0
	ADDITIONAL LOSSES (PSI):							0
	EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):							150
	FRICTION LOSS PRESSURE AVAILABLE (PSI):							7.83
	MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):							5.22
	WATER FLOW VELOCITY (FPS):							4.90
	CALCULATED FRICTION HEAD LOSS (PSI/100 FT):							2.48
	MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):							2
	MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):							4
	(CALCULATIONS PER THE UPC/CPC)							

WATER PIPE SIZING CHART

PIPE SIZES CALCULATED BASED ON UPC/CPC APPENDIX A

SIZE: TYPE L COPPER		COLD WATER				HOT WATER		
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FIXTURE UNITS TANK	FIXTURE UNITS VALVE	GPM	FPS	FIXTURE UNITS
1/2"	0.545	2.4	3.2	**1**	**0**	2.4	3.2	**1**
3/4"	0.785	6.2	4.1	**7**	**0**	6.2	4.1	**7**
1"	1.025	12.4	4.8	**16**	**0**	12.4	4.8	**16**
1-1/4"	1.265	21.6	5.5	**34**	**5**	19.6	5.0	**30**
1-1/2"	1.505	34.2	6.2	**63**	**18**	27.7	5.0	**49**
2"	1.985	70.8	7.3	**231**	**112**	48.2	5.0	**119**
2-1/2"	2.465	119.0	8.0	**474**	**358**	74.4	5.0	**245**
3"	2.945	169.9	8.0	**748**	**700**	106.2	5.0	**411**
4"	3.905	298.6	8.0	**1746**	**1746**	186.6	5.0	**854**
5"	4.875	465.4	8.0	**3291**	**3291**	290.9	5.0	**1677**
6"	5.845	669.1	8.0	**5101**	**5101**	418.2	5.0	**2843**
8"	7.725	1168.7	8.0	**8300**	**8300**	730.4	5.0	**5650**

NATURAL GAS SIZING TABLE

BASED ON 2022 CPC EQUATION 1216.3(1) LOW PRESSURE (SCHEDULE 40 METALLIC)
PIPE LENGTH (FT)= 100
MAXIMUM LOAD (MBH)= 850

PIPE SIZE	PIPE ID	MAX. MBH
1/2	0.622	49
3/4	0.824	104
1	1.049	196
1-1/4	1.38	403
1-1/2	1.61	604
2	2.067	1165
2-1/2	2.469	1857
3	3.068	3284
4	4.026	6703

GAS EQUIPMENT CAPACITIES

EQUIPMENT	GAS LOAD (MBH)
KITCHEN APPLIANCES	850
TOTAL	850

NATURAL GAS SIZING TABLE

BASED ON 2022 CPC EQUATION 1216.3(1) LOW PRESSURE (SCHEDULE 40 METALLIC)
PIPE LENGTH (FT)= 100
MAXIMUM LOAD (MBH)= 270

PIPE SIZE	PIPE ID	MAX. MBH
1/2	0.622	49
3/4	0.824	104
1	1.049	196
1-1/4	1.38	403
1-1/2	1.61	604
2	2.067	1165
2-1/2	2.469	1857
3	3.068	3284
4	4.026	6703

GAS EQUIPMENT CAPACITIES

EQUIPMENT	GAS LOAD (MBH)
WATER HEATER	270
TOTAL	270

Project:________________ Item No. DW-1 Quantity________

Stero

STERO ER-64

RACK CONVEYOR SERIES

c UL us LISTED NSF ENERGY STAR

The **STERO ER-64** provides recirculating, heated wash and rinse tanks followed by a fresh water rinse creating a high volume, low water consuming washer in a 64" footprint.

The full rack width washing pattern with our 225 gallons per minute pump powers this dishwashing workhorse. Rinsing and sanitizing is controlled by STERO's exclusive rack activated final rinse which guarantees accurate, trouble-free cleaning.

Easy to operate, accessibility to components for maintenance and a basic design that produces clean dishes… that is the **STERO ER-64** conveyor.

STANDARD FEATURES

- 270 racks per hour
- Rinse 2.02 gpm /.49 gallons per rack
- Automatic fill maintains proper tank levels
- Automatic start, rack activated switch starts conveyor and pumps
- Automatic shut down stops operation during idle periods
- 2 HP wash and rinse motor each recirculating 225 gpm
- Single point drain connection
- 2 large inspection doors
- Center-fed wash and rinse manifolds
- Stainless steel front enclosure panel protects motors and controls from moisture
- Door safety switches prevents operation if door is open
- Stainless steel drain valves and poppets, foot activated
- Kit 55, included prv, shock arrestor and pressure gauge in final rinse line
- Bell-type stainless steel skimmer acts as overflow and removes fats and oils from the wash tank

OPTIONS & ACCESSORIES

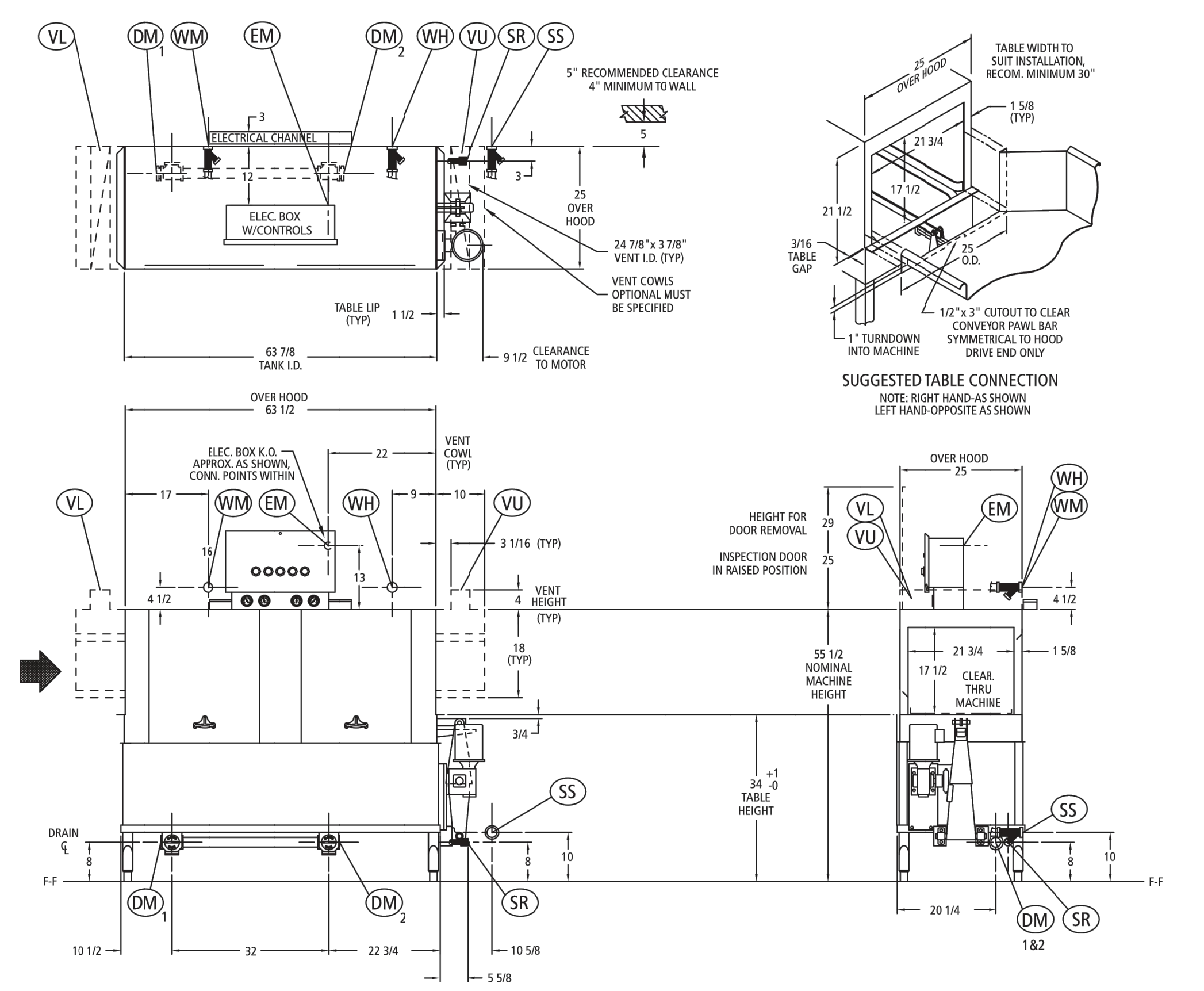
○ Right to Left / Left to Right Operation
○ Vent Cowls
○ Rinse Booster Electric or Steam
○ Circuit Breakers
○ Optional Cabinet-Style Doors
○ Automatic Dwell Conveyor
○ Table Limit Switch
○ Correctional Package
○ Voltage
208V 220V 480V 60cy 3ph
○ International options available, consult factory

ST50411 (11/15) Page 1 of 4

STERO ER-64

RACK CONVEYOR SERIES

Stero


VL
DM
WM
EM
WH
VU
SR
SS
ELECTRICAL CHANNEL
ELEC. BOX W/CONTROLS
5" RECOMMENDED CLEARANCE 4" MINIMUM TO WALL
TABLE WIDTH TO SUIT INSTALLATION
SUGGESTED TABLE CONNECTION
OVER HOOD
VENT COWLS OPTIONAL MUST BE SPECIFIED
HEIGHT FOR DOOR REMOVAL
INSPECTION DOOR IN RAISED POSITION
34 -0 TABLE HEIGHT
DRAIN
F-F
10 1/2
32
22 3/4
10 5/8
5 5/8
20 1/4
DM 1&2

PTS.	SIZE	DESCRIPTION
ELECTRIC TANK HEAT		
DM	2" NPT (F)	DRAIN, MACHINE WASTE: LEAVE UNUSED PORTS PLUGGED
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 121 GALS./HR.
EM	ELECTRICAL REQ.	1. WASH PUMP MOTOR..........2 HP 2. RINSE PUMP MOTOR...........2 HP 3. CONVEYOR MOTOR..........1/4 HP 4. WASH TANK HEAT............10 KW 5. RINSE TANK HEAT............15 KW TOTAL LOAD @ 208V-3PH = 83.6 AMPS TOTAL LOAD @ 480V-3PH = 37.9 AMPS SINGLE POINT CONNECTIONS REQUIRE MOUNTED CIRCUIT BREAKERS. MULTIPLE FEEDERS REQUIRED OTHERWISE.
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

PTS.	SIZE	DESCRIPTION
STEAM TANK HEAT		
DM	2" NPT (F)	DRAIN, MACHINE WASTE: LEAVE UNUSED PORTS PLUGGED
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 121 GALS./HR.
SS	1" NPT (F)	STEAM SUPPLY: 15-40 PSI CONSUMPTION @ 20 PSI TANK HEAT: 140 LBS./HR.
SR	3/4" NPT (F)	STEAM RETURN:
EM	ELECTRICAL REQ.	ONE (3) WIRE FEEDER SIZED FOR: 1. WASH PUMP MOTOR..........2 HP 2. RINSE PUMP MOTOR...........2 HP 3. CONVEYOR MOTOR..........1/4 HP TOTAL LOAD @ 208V-3PH = 14.1 AMPS TOTAL LOAD @ 480V-3PH = 7.7 AMPS
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

ER-64 L-R

STANDARD 208V./230V./480V.-3PH.-60HZ. AVAILABLE

Page 2 of 4 ST50411 (11/15)

PLUMBING FIXTURE SCHEDULE

MARK	LOCATION	FIXTURE	S or W	V	CW	HW	DESCRIPTION
GWH-1	YARD	GAS WATER HEATER	---	---	2"	2"	STORAGE TANK TYPE GAS WATER HEATER, ATMOSPHERIC VENT, LOW NOX POWERED BURNER, ASME RATED T&P RELIEF, 120VAC/1-PH/60-HZ/2 AMP. CONTROL/MOTOR CIRCUIT, 250 GALLON STORAGE CAPACITY WITH 270 MBH GAS INPUT, 266 GPH RECOVERY AT 100°F RISE, SET WATER TEMPERATURE TO 140°F. MEETS OR EXCEEDS ASHRAE/IESNA 90.1, UL LISTED, COMPLIES WITH SCAQMD RULE 1146.2. 80.5% EFF., NOX>55PPM, BAROMETRIC DAMPER, OPTIONS: ELECTRONIC LOW-WATER CUT-OFF (TEST AND MANUAL RESET), HIGH TEMPERATURE LIMIT (MANUAL RESET). PVI MODEL 27L250A-MXS. PVI INDUSTRIES, FORT WORTH, TEXAS, 800-784-8326, WWW.PVI.COM.
CP-1	YARD	CIRCULATING PUMP	---	---	---	3/4"	PIPE MOUNTED CIRCULATOR, FOR 5 GPM AT 34 FT TDH, 3300 RPM, OPEN DRIP PROOF. PROVIDE B&G MODEL 101221 ISOLATION FLANGES AND BALL VALVES, BOTH SIDES. 1/6 H.P., 115V/1ø, 2.1 AMP ELECTRICAL SERVICE. PUMP CONTROLLED BY BELL & GOSSETT MODEL AQS-3/4 AQUASTAT WITH 115/120 VAC, 1PH ELECTRICAL CONNECTION. AQUASTAT TO TURN ON AT 135°F AND TURN OFF AT 140°F. BELL & GOSSETT MODEL PL-36. WWW.XYLEM.COM.
ET-1	YARD	EXPANSION TANK	---	---	---	1"	WESSELS MODEL T-30, STEEL SHELL, DIAPHRAGM TYPE THERMAL EXPANSION TANK. TANK VOLUME: 13.2 GALLONS, ACCEPTANCE VOLUME: 7.8 GALLONS. 15" DIAMETER X 21.1" TALL, 1" SYSTEM CONNECTION, 23 POUNDS SHIPPING WEIGHT, 90 POUNDS OPERATING WEIGHT.
CP-2	YARD	CIRCULATING PUMP	---	---	---	3/4"	BELL & GOSSETT MODEL PL-36, PIPE MOUNTED CIRCULATOR, FOR 5 GPM AT 34 FT TDH, 3300 RPM, OPEN DRIP PROOF. PROVIDE B&G MODEL 101221 ISOLATION FLANGES AND BALL VALVES, BOTH SIDES. 1/6 H.P., 115V/1ø, 2.1 AMP ELECTRICAL SERVICE. PUMP CONTROLLED BY BELL & GOSSETT MODEL AQS-3/4 AQUASTAT WITH 115/120 VAC, 1PH ELECTRICAL CONNECTION. AQUASTAT TO TURN ON AT 110°F AND TURN OFF AT 115°F. INSTALL AQUASTAT IN NEMA-3R ENCLOSURE ON WALL IN YARD.
TMV-1	YARD	THERMOSTATIC MIXING VALVE	---	---	2"	2"	HI/LO MIXING VALVE WITH INTEGRAL CHECK VALVES, UNIT CONFORMS TO ASSE 1017 & CSA B125 STANDARDS, 1.0 TO 57 GPM FLOW RANGE, SET AT 115°F. POWERS MODEL SH1432 HYDROGUARD XP HI/LO.
TMV-2	FOOD PREP EEW	THERMOSTATIC MIXING VALVE	---	---	1/2"	1/2"	THERMOSTATIC MIXING VALVE, APPLICABLE TO EMERGENCY FIXTURES FOR TEPID WATER, LEAD-FREE, SET TO 85F WITH VANDAL-RESISTANT LOCKING MECHANISM, 5 GPM FLOW AT 10 PSIG LOSS, INTERNAL COLD WATER BYPASS, CHECK STOPS, ASSE 1071 LISTED, ROUGH BRONZE WITH TEMPERATURE/PRESSURE GAUGE ON OUTLET. TOP INLET/BOTTOM OUTLET. POWERS HYDROGAURD XP, ES15011 OR EQUAL.
GPR-1	YARD	GAS PRESSURE REGULATOR	---	---	---	---	AMERICAN METER MODEL 1800C, GAS PRESSURE REGULATOR WITH 1-1/4" GAS OUTLET, INLET PRESSURE OF 5 PSIG, OUTLET PRESSURE OF 7" W.C., 1/4" ORIFICE WITH A MAXIMUM CAPACITY OF 1000 SCFH.
GPR-2	YARD	GAS PRESSURE REGULATOR	---	---	---	---	AMERICAN METER MODEL 1800C, GAS PRESSURE REGULATOR WITH 1" GAS OUTLET, INLET PRESSURE OF 5 PSIG, OUTLET PRESSURE OF 7" W.C., 3/16" ORIFICE WITH A MAXIMUM CAPACITY OF 450 SCFH.
GV-1	FOOD PREP 131	GAS SOLENOID VALVE	---	---	---	---	GAS SOLENOID VALVE, 2" NPT, 60 CV, 2-WAY NORMALLY CLOSED OPERATION, EXPLOSION PROOF, AC CONTROL VOLTAGE. ASCO MODEL: EF8215B080. RELAY CONTROL PANEL, ON/OFF PUSH BUTTONS AND KEY OPERATED MANUAL RESET ON COVER, 120VAC1PH-60HZ INPUT, 120VAC1PH-60HZ OUTPUT, ASCO MODEL: 108D90C.

HEAT TRACE SYSTEM

NUMBER	HT-1
SERVICE	FREEZER/REFRIG.
FREEZER TEMP (°F)	-10
REFRIGERATOR TEMP (°F)	30
SET-POINT TEMP (°F)	40
PIPE SIZE (INCH)	3/4
INSUL. TYPE/THICK. (INCH)	ELASTOMER FOAM/1/2
PIPE HEAT LOSS (WATTS/FT)	3
CABLE LENGTH (FT)	75
CABLE RATING (AMPS/FT)	0.09
TOTAL SYSTEM LOAD (WATTS)	810
VOLT/PHASE	120/1
CIRCUIT AMPS	15
CABLE MODEL	3XLE1-CR
CONTROLLER MODEL	C910-485
MANUFACTURE	RAYCHEM

NOTES:
1. PROVIDE RAYCHEM XL-TRACE EDGE SYSTEM FOR PIPE FREEZE PROTECTION. SEE CATALOG FOR COMPLETE LIST OF COMPONENTS AND SELECTION CRITERIA. INCLUDE MICROPROCESSOR BASED SINGLE-POINT CONTROLLER (C910-485), SELF-REGULATING HEATING CABLE (3XLE1-CR), POWERED TEE AND END SEAL WITH MOUNTING BRACKET (RAYCLIC-PT), CABLE END SEALS (RAYCLIC-E), LOW TEMP. GLASS CLOTH TO SECURE CABLE TO PIPING (GS-54).
2. SEE P2.1 AND P2.3 FOR CONTROLLER/CABLE LOCATION AND LAYOUT.

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#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

PLUMBING SCHEDULES

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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DATE: SEPTEMBER 20, 2024

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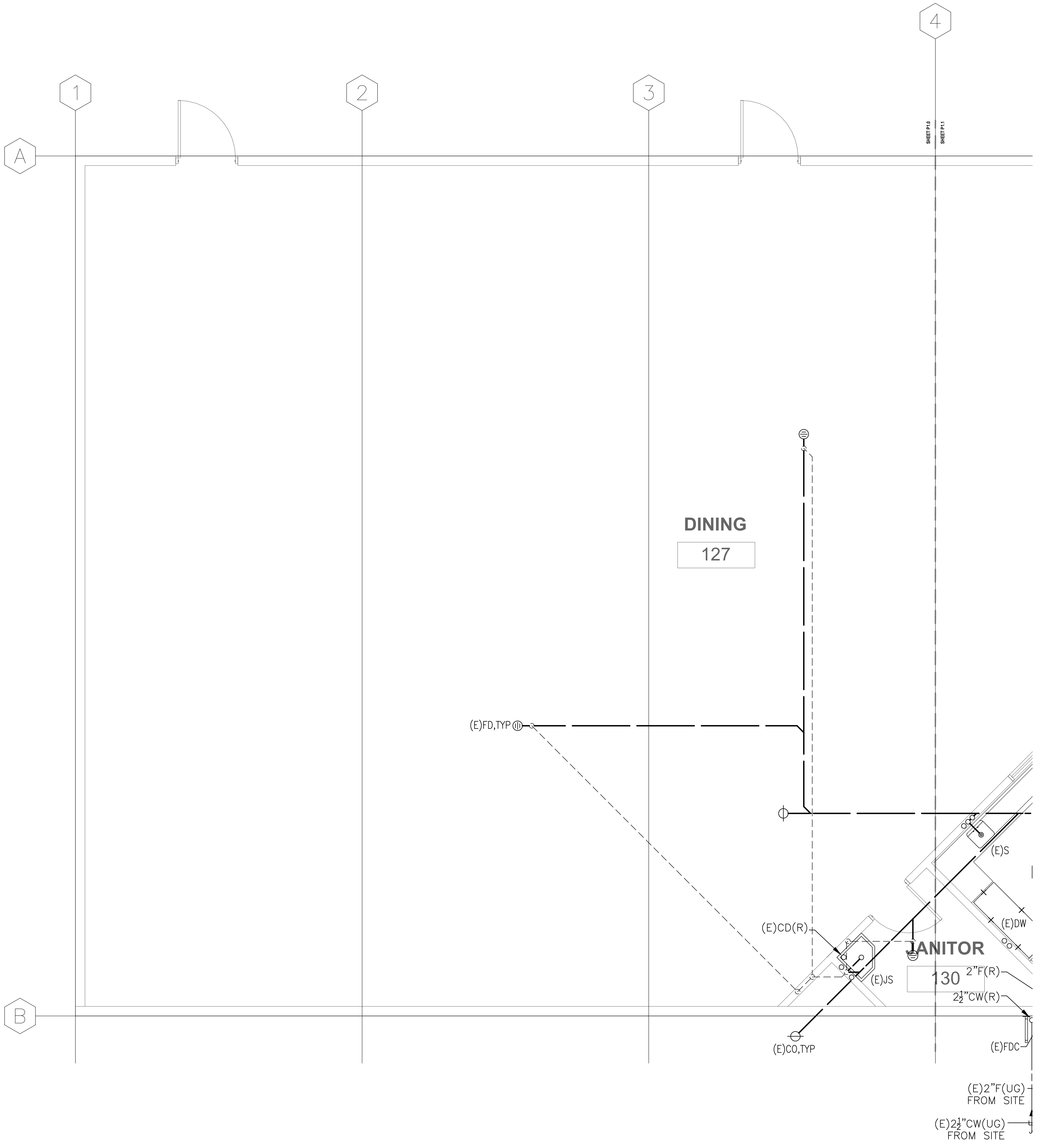
P0.2

OF # SHEETS V3



1 PLUMBING ENLARGED FLOOR PLAN—DEMOLITION
SCALE: 1/4" = 1'-0"

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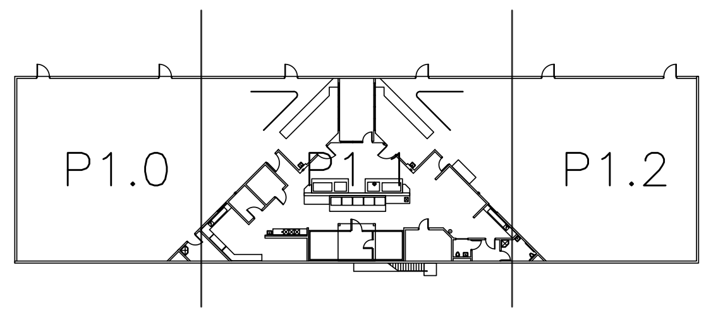
5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782
Exp. 06-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING ENLARGED FLOOR PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
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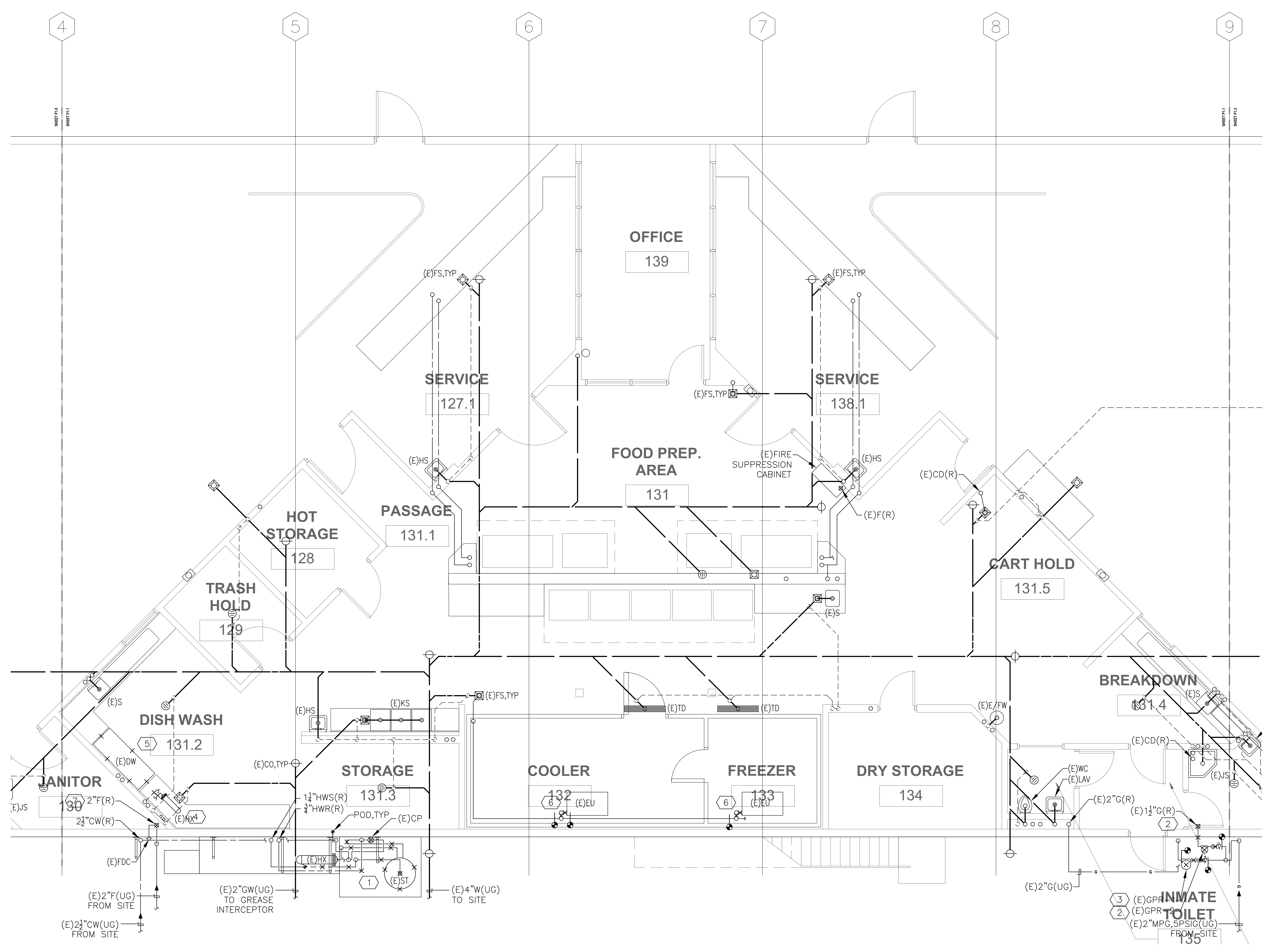
OF # SHEETS V3



1 PLUMBING ENLARGED FLOOR PLAN–DEMOLITION
SCALE: 1/4" = 1'-0"

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5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

① REMOVE (E) DOMESTIC WATER HEATING PLUMBING PIPING TO POD'S INDICATED INCLUDING (E) CIRCULATING PUMP (CP) AND STORAGE TANK (ST).

② REMOVE (E) NATURAL GAS PIPING PREVIOUSLY SERVING STEAM BOILER ON ROOF TO POD INDICATED INCLUDING REGULATOR, UNION, SOV.

③ REMOVE (E) NATURAL GAS REGULATOR, UNION, SOV SERVING KITCHEN COOKING APPLIANCES.

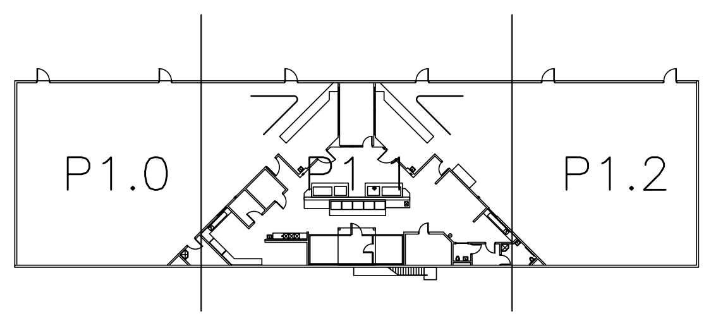
④ REMOVE (E)HW PLUMBING PIPING TO (E) STEAM HEAT EXCHANGER (HX).

⑤ REMOVE (E) DISH WASHER AND ASSOCIATED (E) PLUMBING PIPING AND TEMP CAP AT WALL.

⑥ DISCONNECT CONDENSATE (CD) PIPING FROM (E) EVAPORATOR UNITS SERVING REFRIGERATORS AND REMOVE TO POD INDICATED. ALSO REMOVE (E) INSULATION AND SUPPORTS OF PIPING ON FREEZER/REFRIGERATOR WALL PANELS.

⑦ REMOVE (E) FIRE WATER PIPING AND SUPPORTS USED FOR KITCHEN HOOD FIRE SUPPRESSION. SEE FS1.0.

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING ENLARGED FLOOR PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
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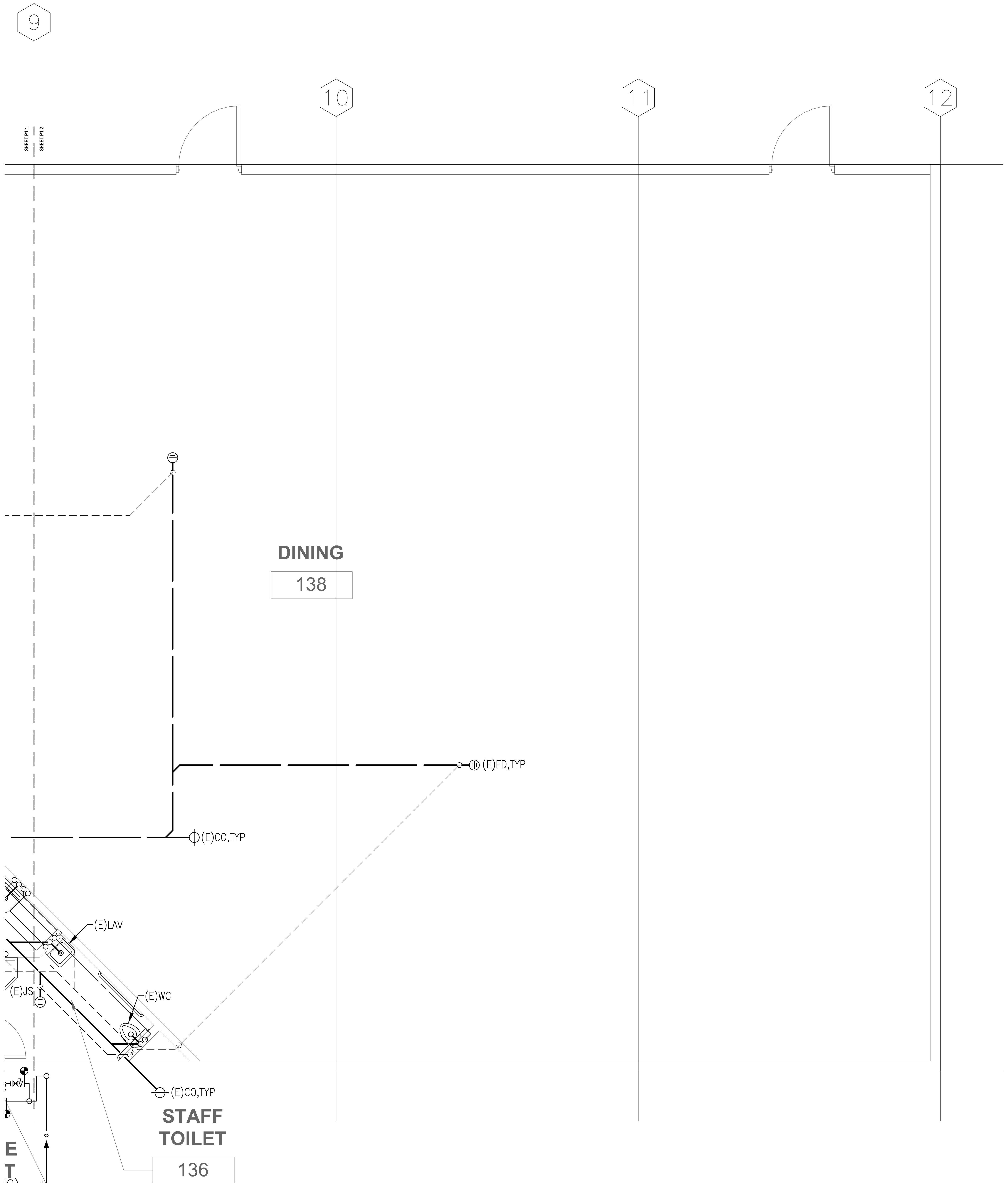

1 PLUMBING ENLARGED FLOOR PLAN—DEMOLITION
SCALE: 1/4" = 1'-0"

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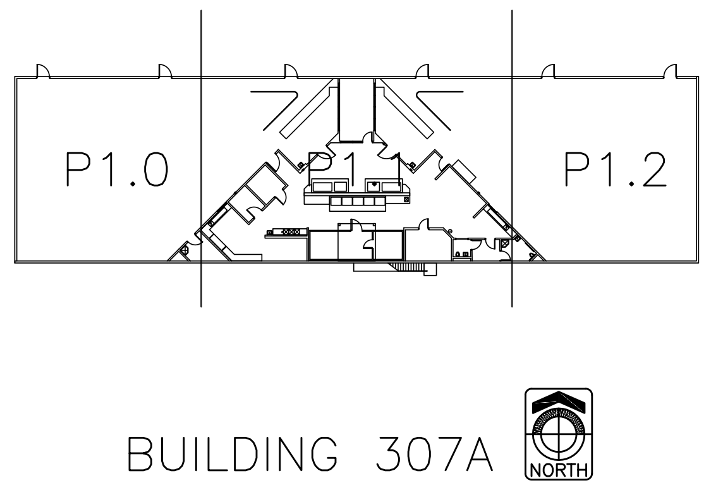
KEYNOTES

KEY PLAN



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No. M31782
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STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING ENLARGED FLOOR PLAN-DEMOLITION
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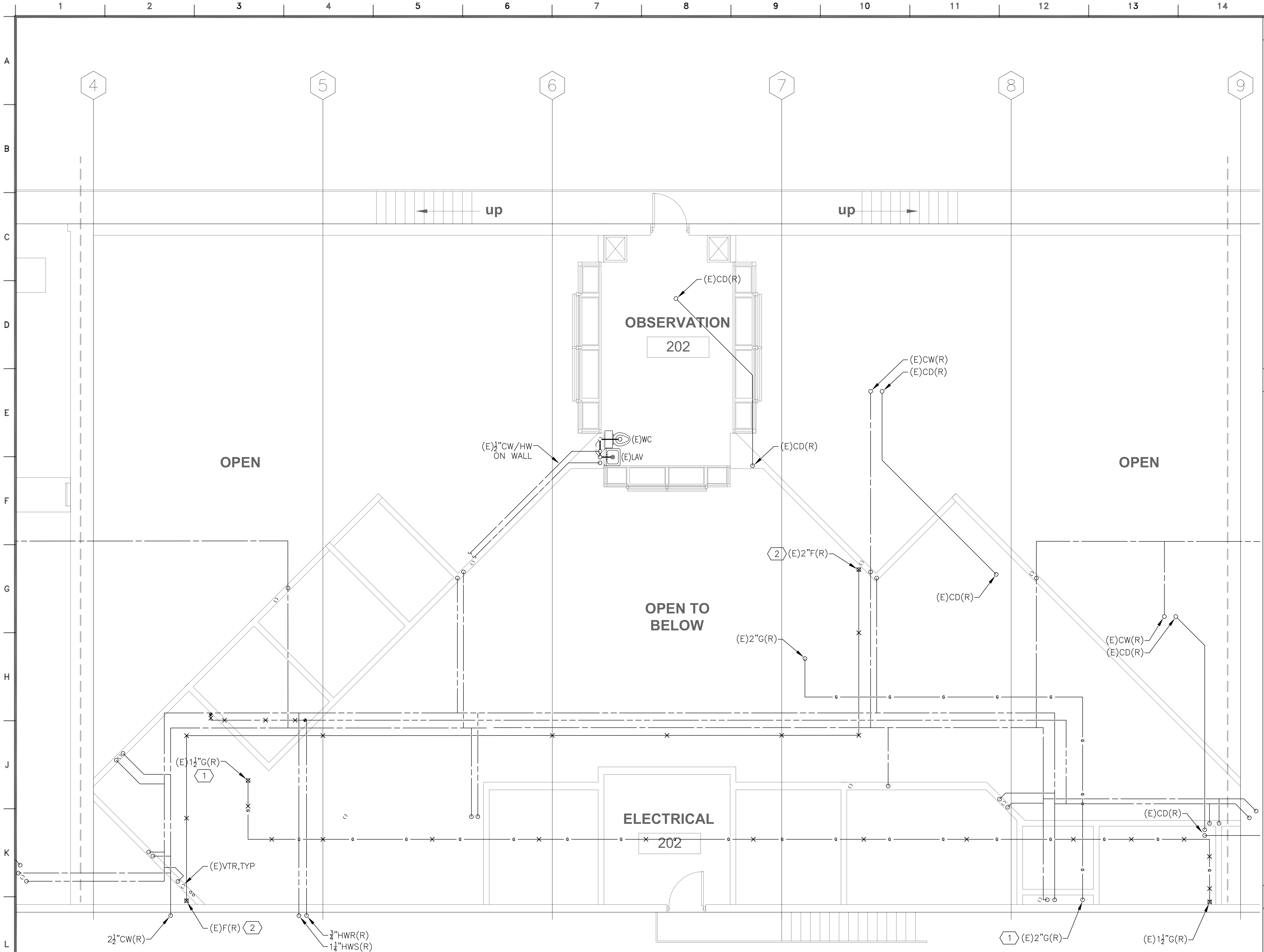
DATE: SEPTEMBER 20, 2024
SHEET NUMBER
P1.2
OF # SHEETS V3



1 PLUMBING ENLARGED MEZZANINE PLAN–DEMOLITION

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

GENERAL NOTES

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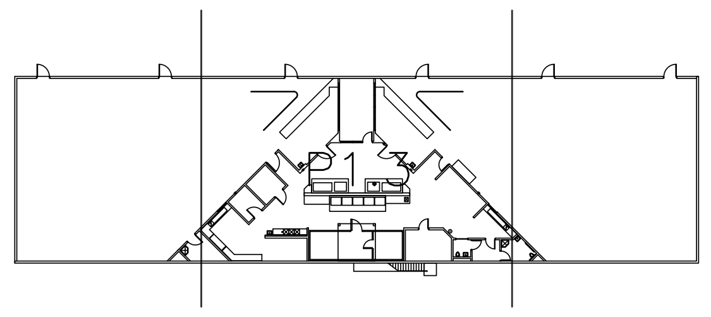
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

1. REMOVE (E) NATURAL GAS PIPING PREVIOUSLY SERVING STEAM BOILER ON ROOF TO POD INDICATED INCLUDING REGULATOR, UNION, SOV.
2. REMOVE (E) FIRE WATER PIPING AND SUPPORTS USED FOR KITCHEN HOOD FIRE SUPPRESSION. SEE FS1.0.

KEY PLAN



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#1336 6/30/2025
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STEPHEN R. ZAGYI
No. M31782
Exp. 06-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

PLUMBING ENLARGED MEZZANINE PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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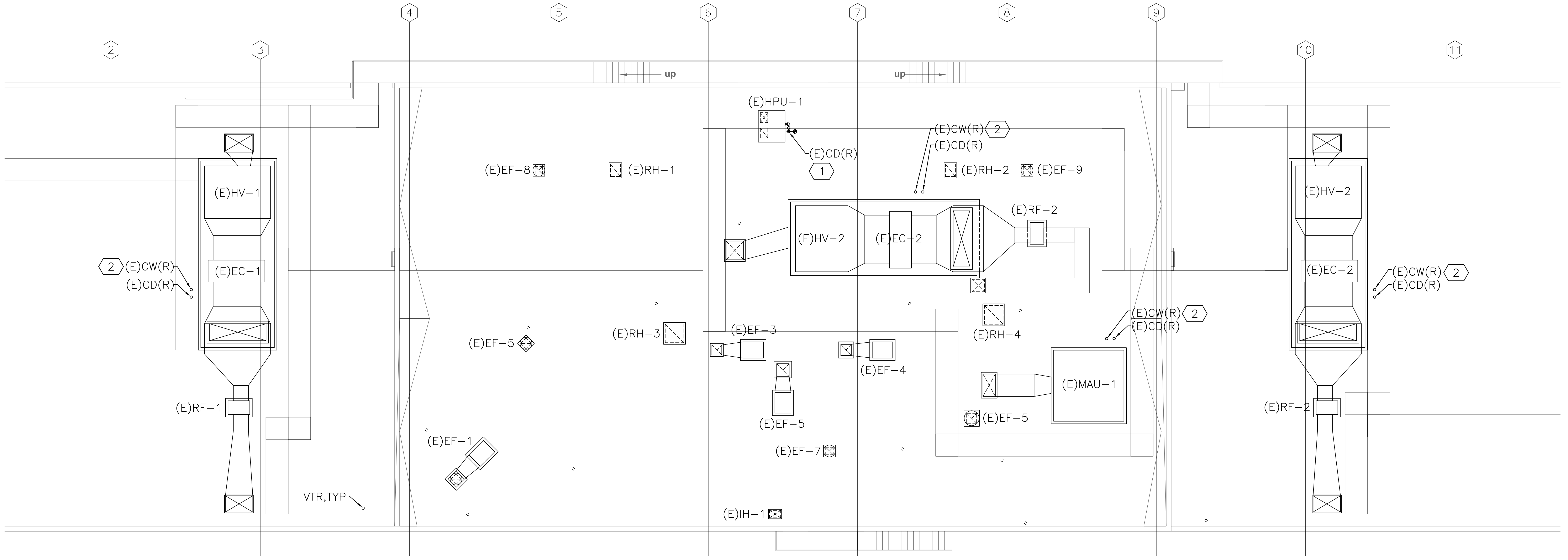
DATE: SEPTEMBER 20, 2024

SHEET NUMBER
P1.3
OF # SHEETS V3



1 PLUMBING ENLARGED ROOF PLAN—DEMOLITION
SCALE: 1/8" = 1'−0"

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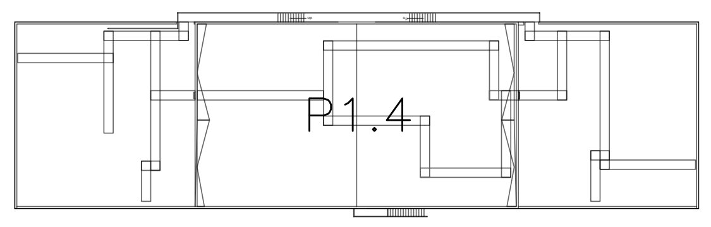
5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.
7. SEE MECHANICAL PLANS FOR DEMOLITION OF EXISTING HVAC EQUIPMENT.

KEYNOTES

1 DISCONNECT CONDENSATE (CD) PIPING FROM (E) HEAT PUMP UNIT (HPU) AND REMOVE TO POD INDICATED.

2 DISCONNECT WATER AND DRAIN PIPING FROM (E) EVAPORATIVE COOLER (EU) AND TEMPORARILY CAP, TYPICAL.

KEY PLAN



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24-3165
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#1336 6/30/2025
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

PLUMBING ENLARGED ROOF PLAN-DEMOLITION

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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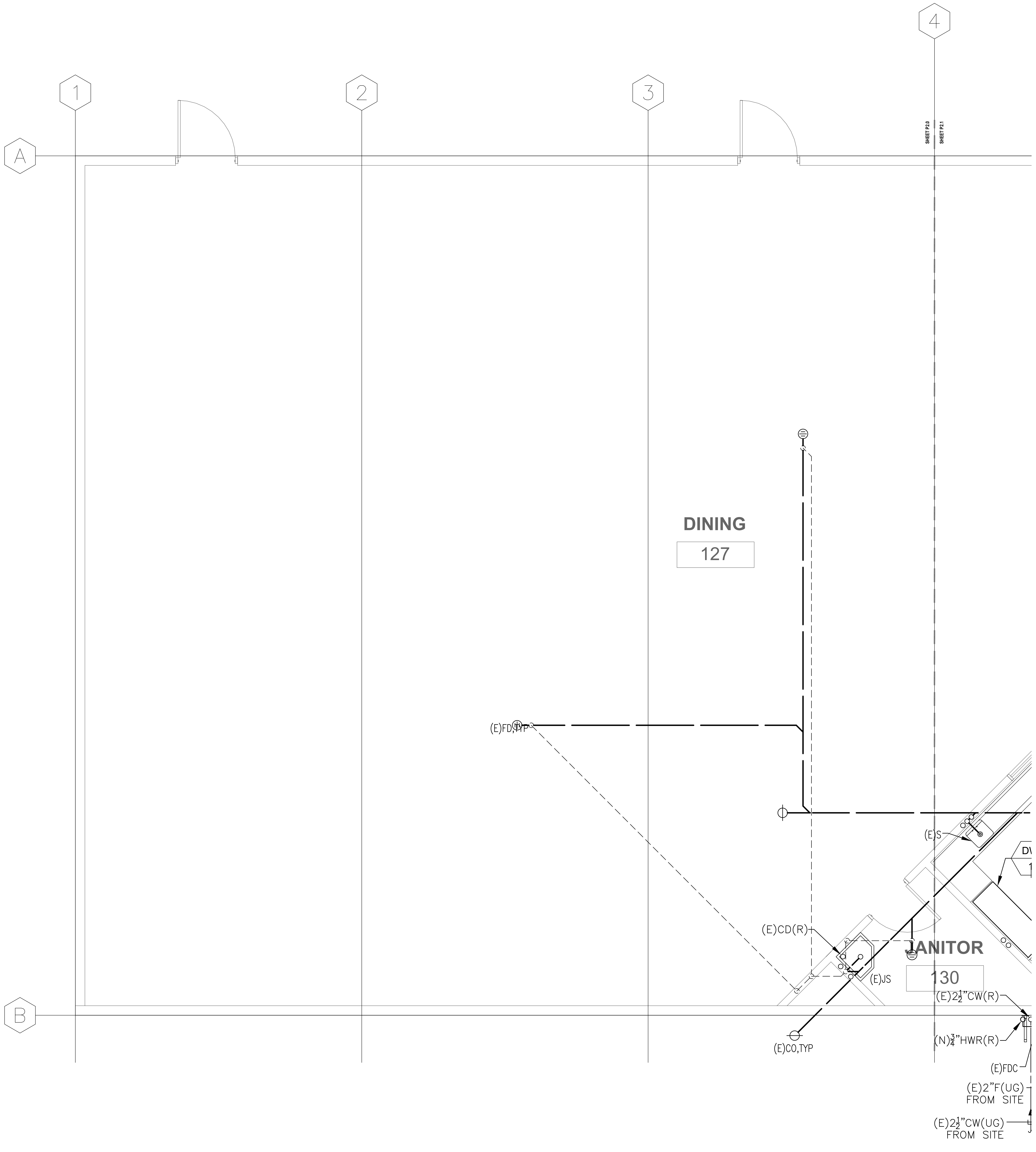
DATE: SEPTEMBER 20, 2024

SHEET NUMBER
P1.4
OF # SHEETS
V3



1 PLUMBING ENLARGED FLOOR PLAN–NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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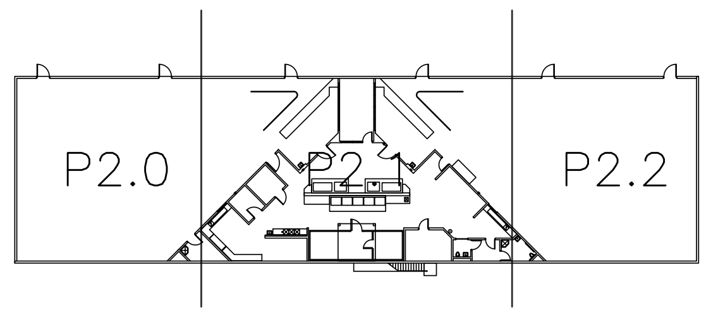
2. CONTRACTOR SHALL VISIT SITE DURING THE PRE BID CONFERENCE TO BE SCHEDULE BY THE STATE TO DETERMINE ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON DRAWINGS THAT MAY EFFECT HIS BID.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.
4. CLEAN/SANITIZE ALL EXISTING PLUMBING FIXTURES INCLUDING FIXTURE TRAPS.
5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

KEY PLAN



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MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING ENLARGED FLOOR PLAN-NEW
FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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DATE: SEPTEMBER 20, 2024
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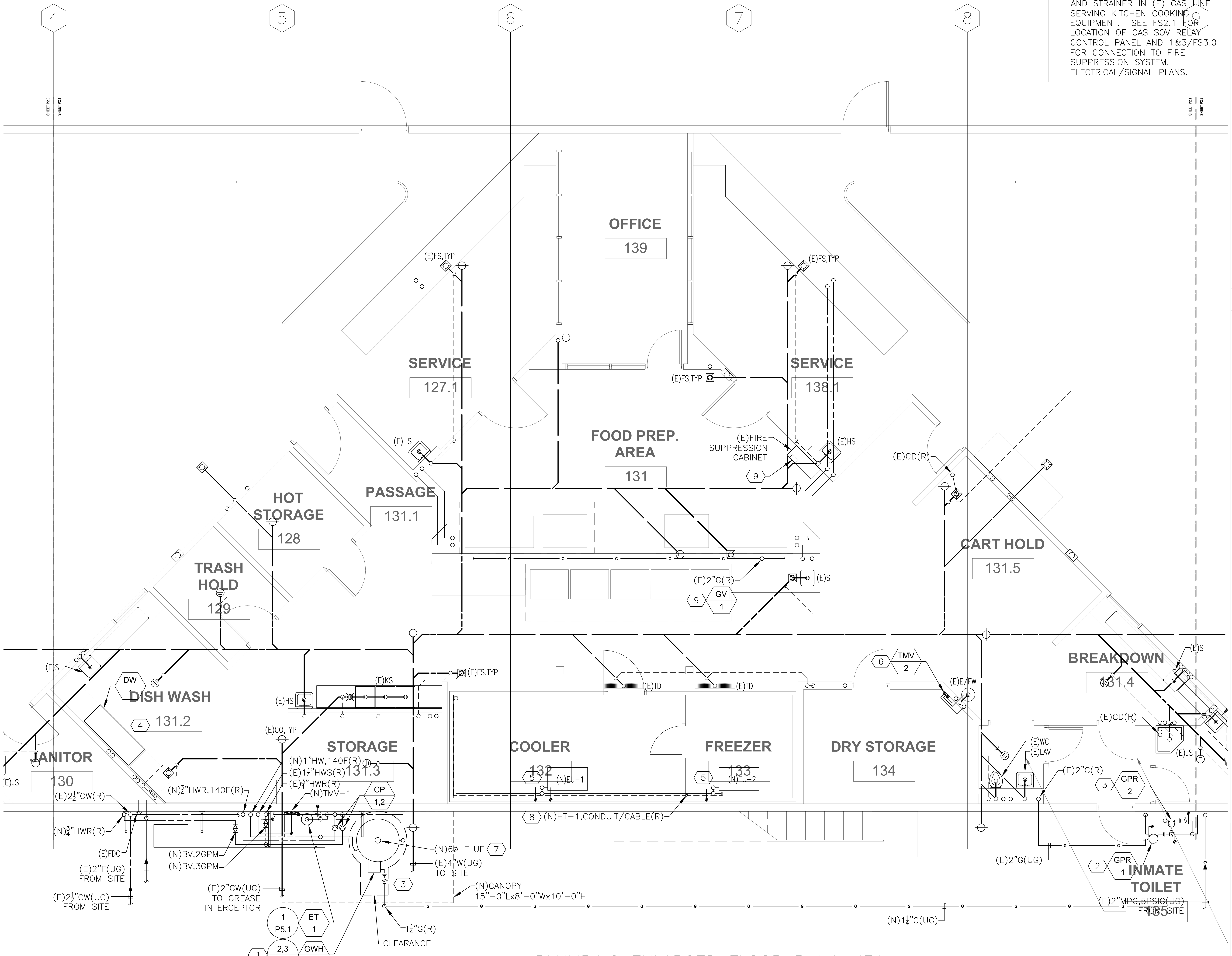
P2.0
OF # SHEETS V3



1 PLUMBING ENLARGED FLOOR PLAN—NEW

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

KEYNOTES CONT.

⑨ INSTALL (N) GAS SOLENOID SOV AND STRAINER IN (E) GAS LINE SERVING KITCHEN COOKING EQUIPMENT. SEE FS2.1 FOR LOCATION OF GAS SOV RELAY CONTROL PANEL AND 1&3/FS3.0 FOR CONNECTION TO FIRE SUPPRESSION SYSTEM, ELECTRICAL/SIGNAL PLANS.

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5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

① INSTALL (N)GWH-1, ET-1, TMV-1, (N)CP-1 AND (N) CW,HW,HWR PLUMBING PIPING AND CONNECT TO (E) PLUMBING PIPING AT POC'S INDICATED. SEE PIPING DIAGRAM IN 2/P5.1 FOR ADDITIONAL INFORMATION.

② INSTALL (N)GPR-1 INCLUDING (N) UNION AND SOV.

③ INSTALL (N)GPR-2, UNION, SOV AND ROUTE (N) NATURAL GAS PIPING UNDERGROUND TO (N) GWH-1. RISE ABOVE GRADE OUTSIDE COVER OF CANOPY. INSTALL SOV/FLEXIBLE PIPE AT CONNECTION. SEE 5/P5.1.

④ INSTALL (N)DW-1 AND ROUTE (N) CW AND HW PLUMBING PIPING TO UNIT AND CONNECT TO (E) PLUMBING PIPING. ROUTE (N) INDIRECT DRAIN PIPING FROM (N)DW-1 TO (E)FS.

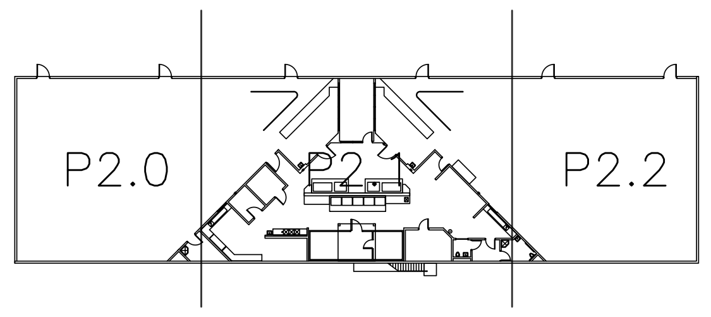
⑤ INSTALL (N) CD TRAPS AND PIPING AND CONNECT TO (N)EU'S. AND (E) CD PIPING. INSTALL 1/2" ELASTOMER FOAM INSULATION ON ALL CD PIPING INCLUDING TRAPS. RE-ATTACHED (E) CD PIPING TO FREEZER/REFRIGERATOR WALL PER 8/P0.1 AT 2% SLOPE.
NOTE: HEAT TRACE CABLE TO BE INSTALLED UNDER INSULATION.

⑥ CONNECT (N)½"CW AND HW TO (E) AND ROUTE TO (N)TMV-1. ROUTE (N)½"TW TO (E) EYE-WASH STATION.

⑦ INSTALL (N) 6"ø DOUBLE WALL FLUE UP THRU CANOPY AND UP ALONG WALL AND TERMINATE 2'-0" MINIMUM ABOVE ROOF. SEE 7/P5.2.

⑧ SECURE HEAT TRACE CABLE DIRECTLY ON ALL CONDENSATE DRAIN PIPING INCLUDING TRAPS WITH GLASS TAPE PER MFR'S INSTRUCTIONS.

KEY PLAN



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MECHANICAL

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24-014

PLUMBING ENLARGED FLOOR PLAN-NEW

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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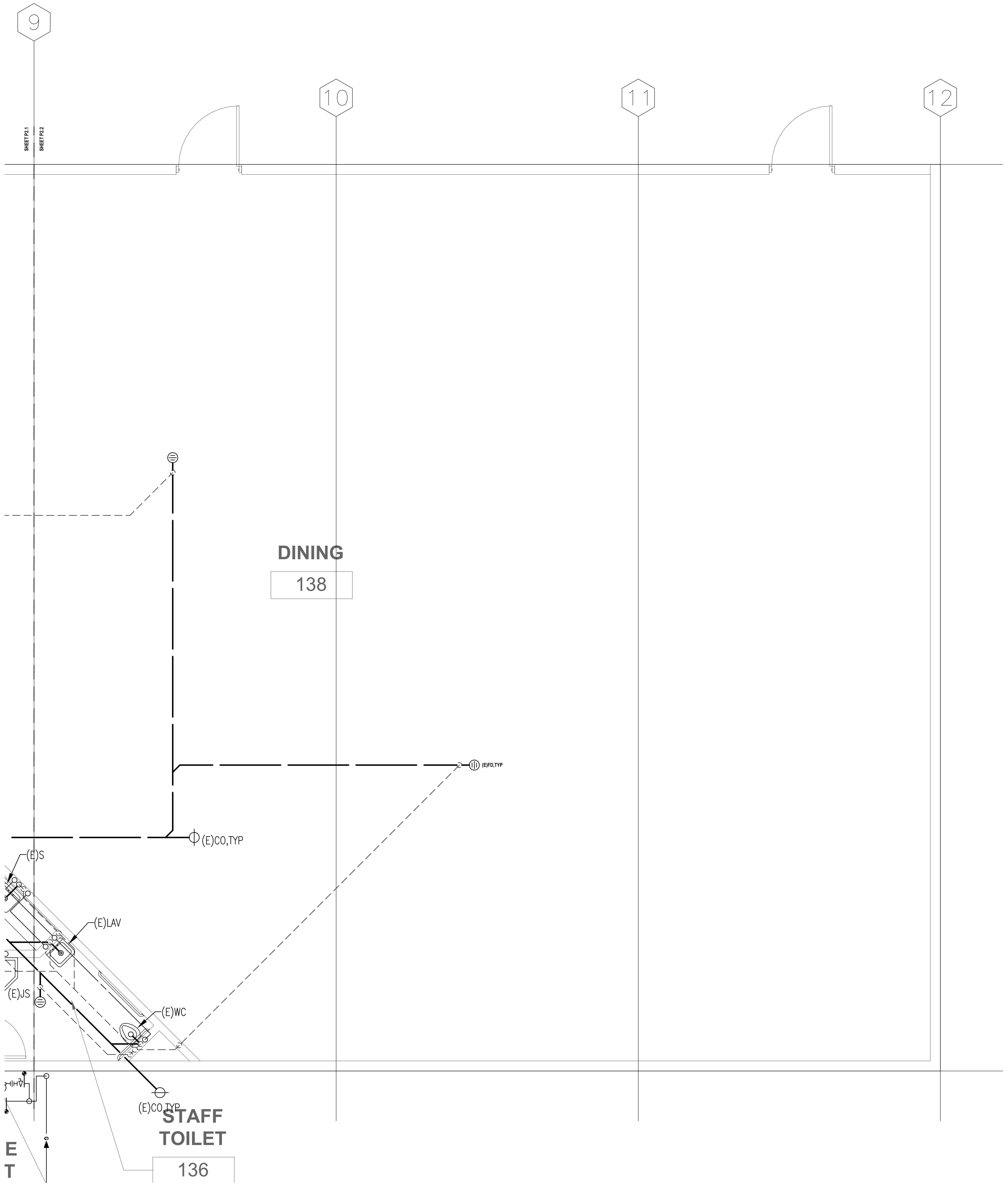

1 PLUMBING ENLARGED FLOOR PLAN—NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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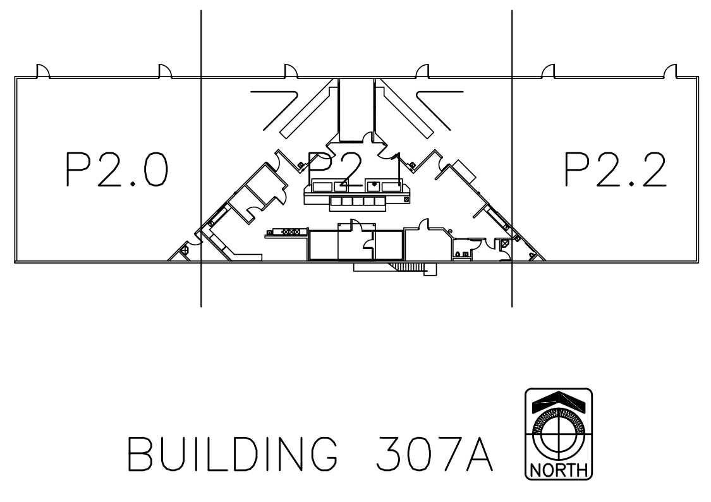
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.

KEYNOTES

KEY PLAN



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STEPHEN R. ZAGYI
No. M31782

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING ENLARGED FLOOR PLAN-NEW
FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
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DATE: SEPTEMBER 20, 2024

SHEET NUMBER
P2.2
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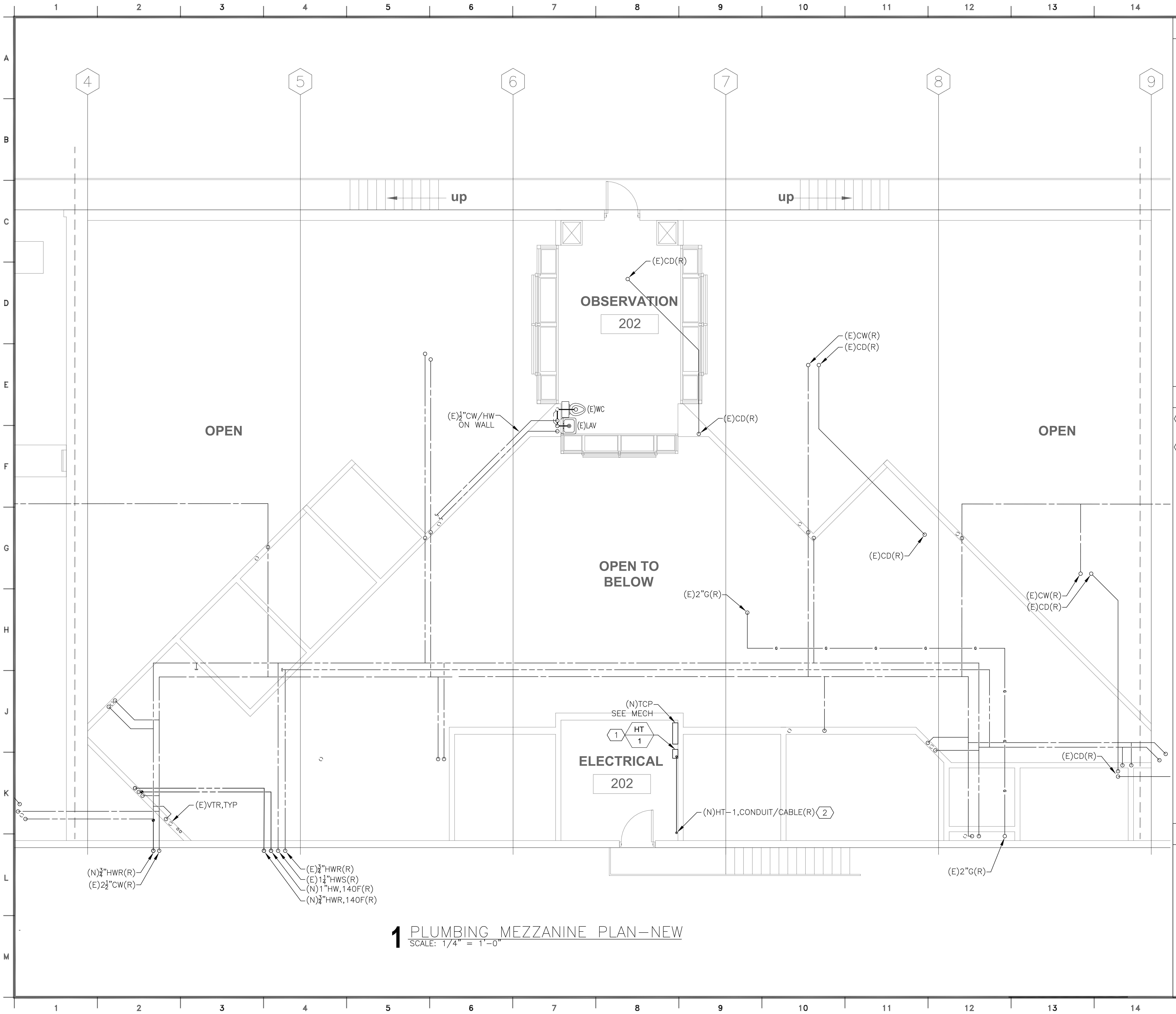

1 PLUMBING MEZZANINE PLAN—NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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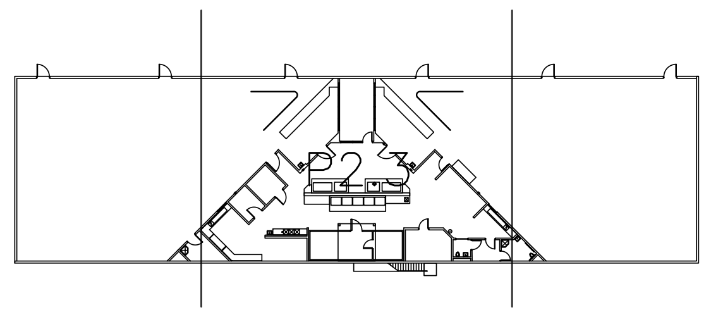
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.
7. SEE P5.1 AND P5.2 FOR PIPE HANGER/SUPPORTS AND ATTACHMENT TO STRUCTURE.

KEYNOTES

1. INSTALL (N)HT-1 CONTROLLER ON WALL WITH DISPLAY AT 5'-0" AFF.
2. ROUTE (N) HEAT-TRACE CONDUIT AND CABLE TO FREEZER AND REFRIGERATOR ROOMS AND INSTALL CABLE DIRECTLY ON ALL CONDENSATE DRAIN PIPING INCLUDING TRAPS WITH GLASS TAPE PER MFR'S INSTRUCTIONS.

KEY PLAN



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No. M31782
Exp. 06-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
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24-014

PLUMBING MEZZANINE PLAN-NEW
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212
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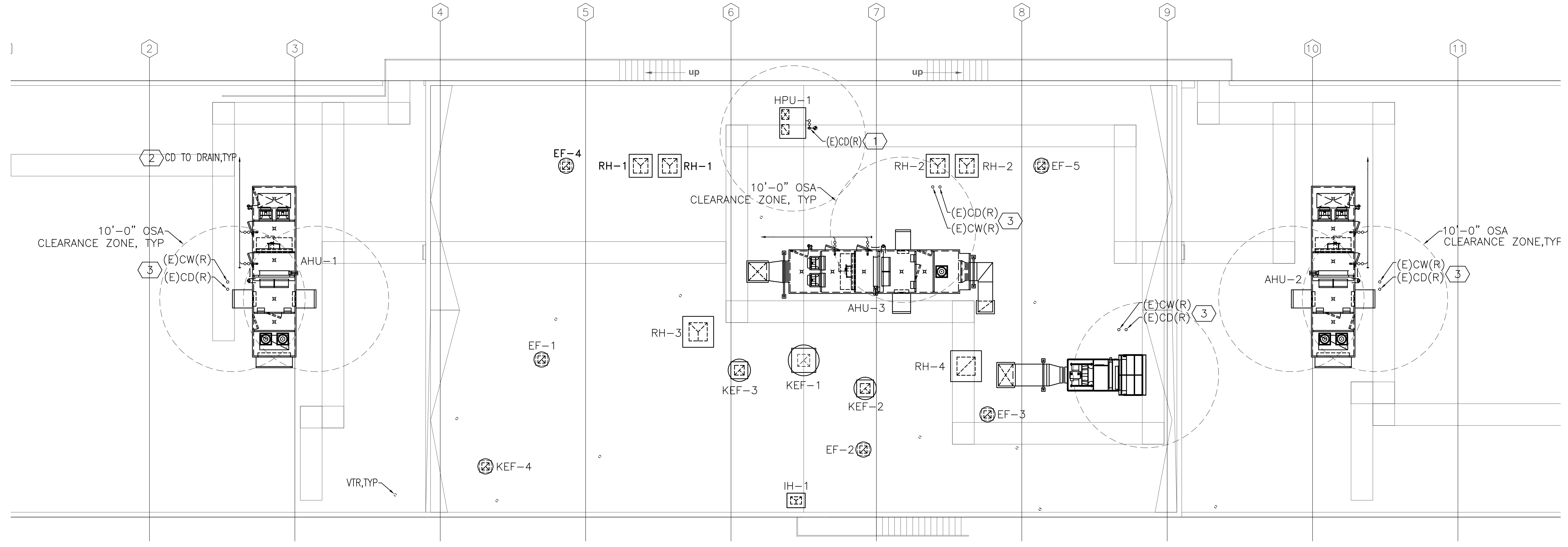

1 PLUMBING ENLARGED ROOF PLAN-NEW
SCALE: 1/8" = 1'-0"

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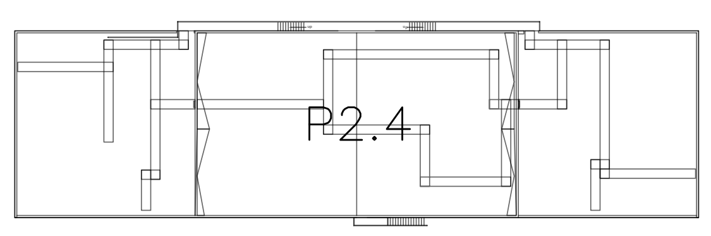
5. FLUSH AND CLEAN ALL PLUMBING PIPING. INSPECT FOR LEAKS AT SYSTEM OPERATING PRESSURES.
6. AFTER FLUSHING OF DOMESTIC COLD, HOT, RETURN WATER, DISINFECT WATER LINES PER SPECIFICATION REQUIREMENTS.
7. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM OUTSIDE AIR INTAKE OF AIR HANDLING UNITS FROM EXHAUST AIR DISCHARGE AND PLUMBING VENTS, TYPICAL.
8. SEE P5.1 AND P5.2 FOR PIPE HANGER/SUPPORTS AND ATTACHMENT TO STRUCTURE.
9. SEE MECHAICAL PLANS FOR INSTALLATION OF NEW HVAC EQUIPMENT.

KEYNOTES

1. INSTALL CD TRAP AND ROUTE (N) CD PIPING AND CONNECT TO (E) AT POC INDICATED.
2. INSTALL CD TRAP AND ROUTE (N) CD PIPING TO DRAIN.
3. INSTALL (N) POINT OF USE BFPV AT (E)CW AND ROUTE TO EVAPORATIVE COOLING CONNECTION AT (N)AHU. ROUTE DRAIN LINES FROM EVAPORATIVE COOLING CONNECTIONS AT (N)AHU TO (E)DRAIN.

KEY PLAN



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FACILITY III A KITCHEN REPAIRS

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DATE: SEPTEMBER 20, 2024
SHEET NUMBER
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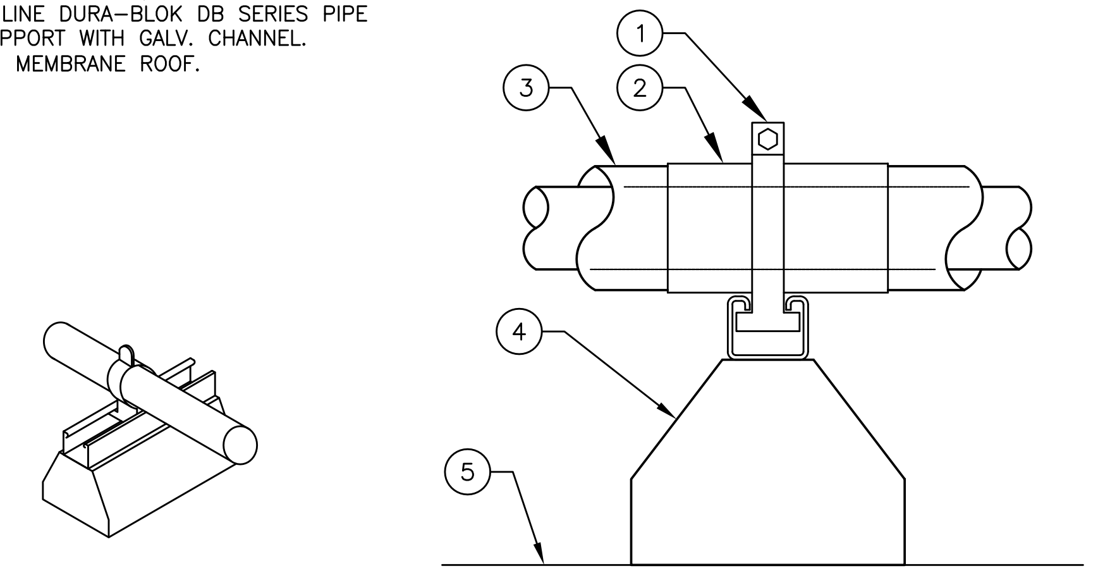
V3

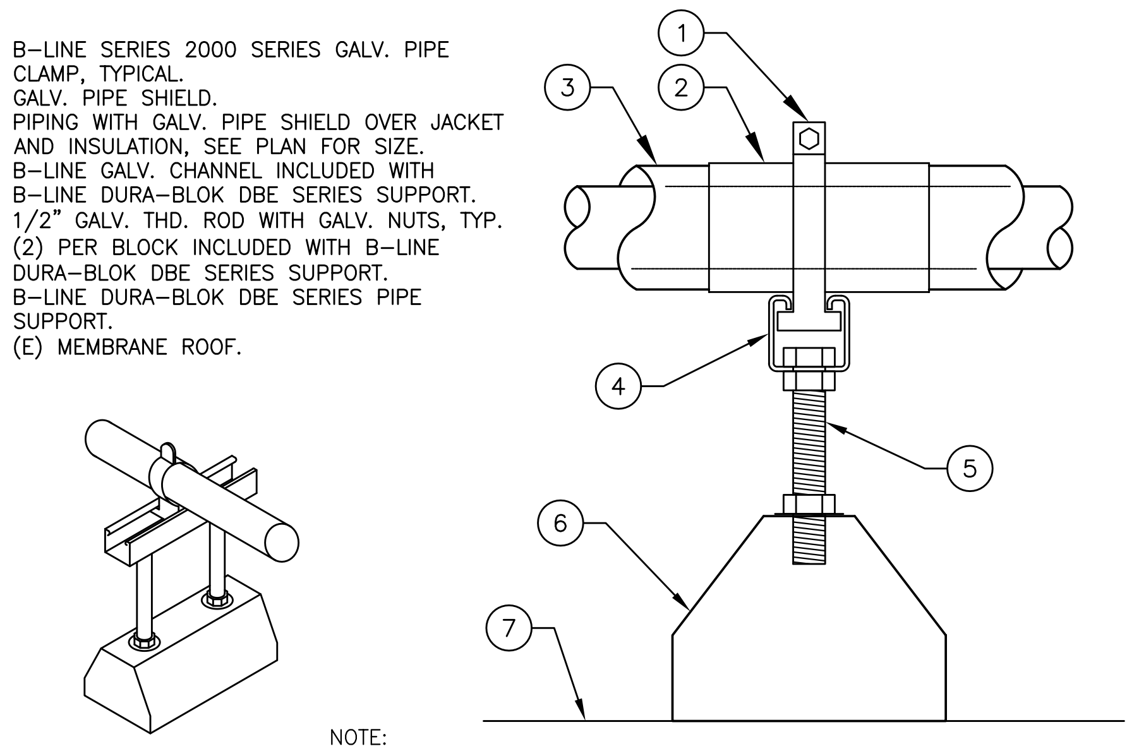
1. B–LINE SERIES 2000 SERIES GALV. PIPE CLAMP, TYPICAL.
2. GALV. PIPE SHIELD.
3. PIPING WITH GALV. PIPE SHIELD OVER JACKET AND INSULATION, SEE PLAN FOR SIZE.
4. B–LINE DURA–BLOK DB SERIES PIPE SUPPORT WITH GALV. CHANNEL.
5. (E) MEMBRANE ROOF.



NOTE:
1. PROVIDE PIPE SUPPORT AT MAXIMUM SPACING OF 8FT AND WITHIN 2FT OF END FOR EACH CHANGE OF DIRECTION OR TERMINATION.

PIPE SUPPORT ON ROOF
NTS
10

1. B–LINE SERIES 2000 SERIES GALV. PIPE CLAMP, TYPICAL.
2. GALV. PIPE SHIELD.
3. PIPING WITH GALV. PIPE SHIELD OVER JACKET AND INSULATION, SEE PLAN FOR SIZE.
4. B–LINE GALV. CHANNEL INCLUDED WITH B–LINE DURA–BLOK DBE SERIES SUPPORT.
5. 1/2" GALV. THD. ROD WITH GALV. NUTS, TYP. (2) PER BLOCK INCLUDED WITH B–LINE DURA–BLOK DBE SERIES SUPPORT.
6. B–LINE DURA–BLOK DBE SERIES PIPE SUPPORT.
7. (E) MEMBRANE ROOF.



NOTE:
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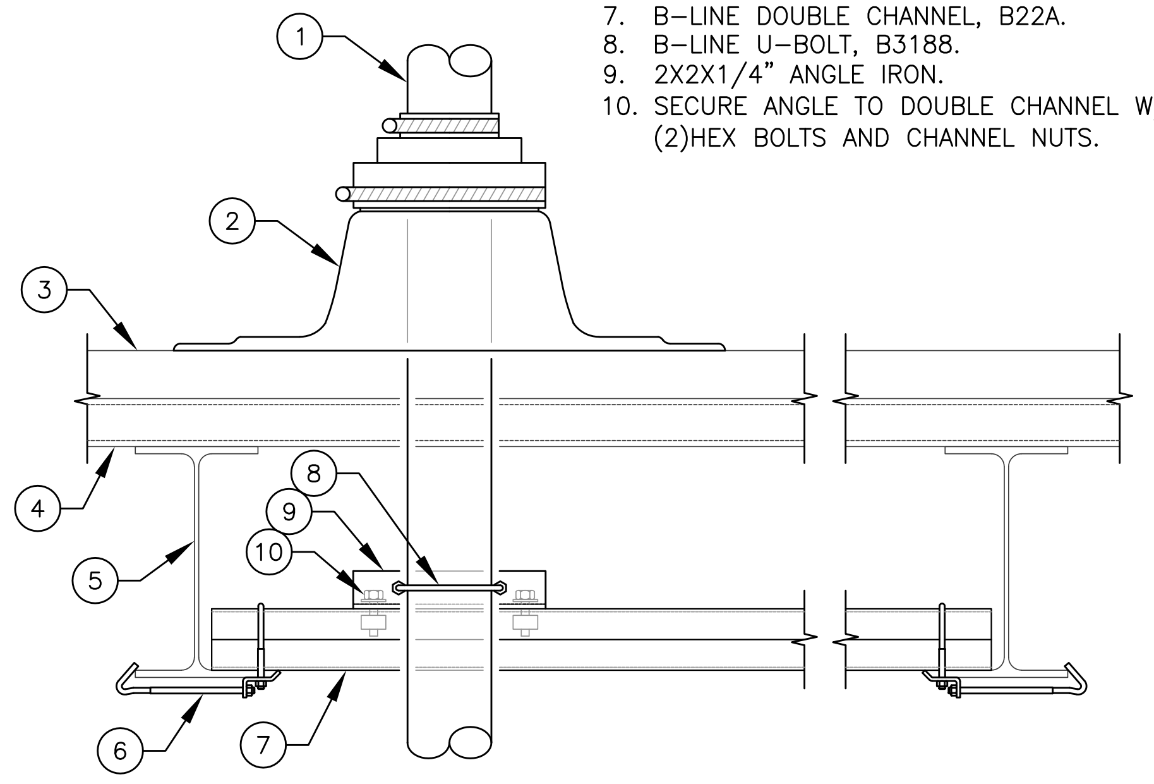
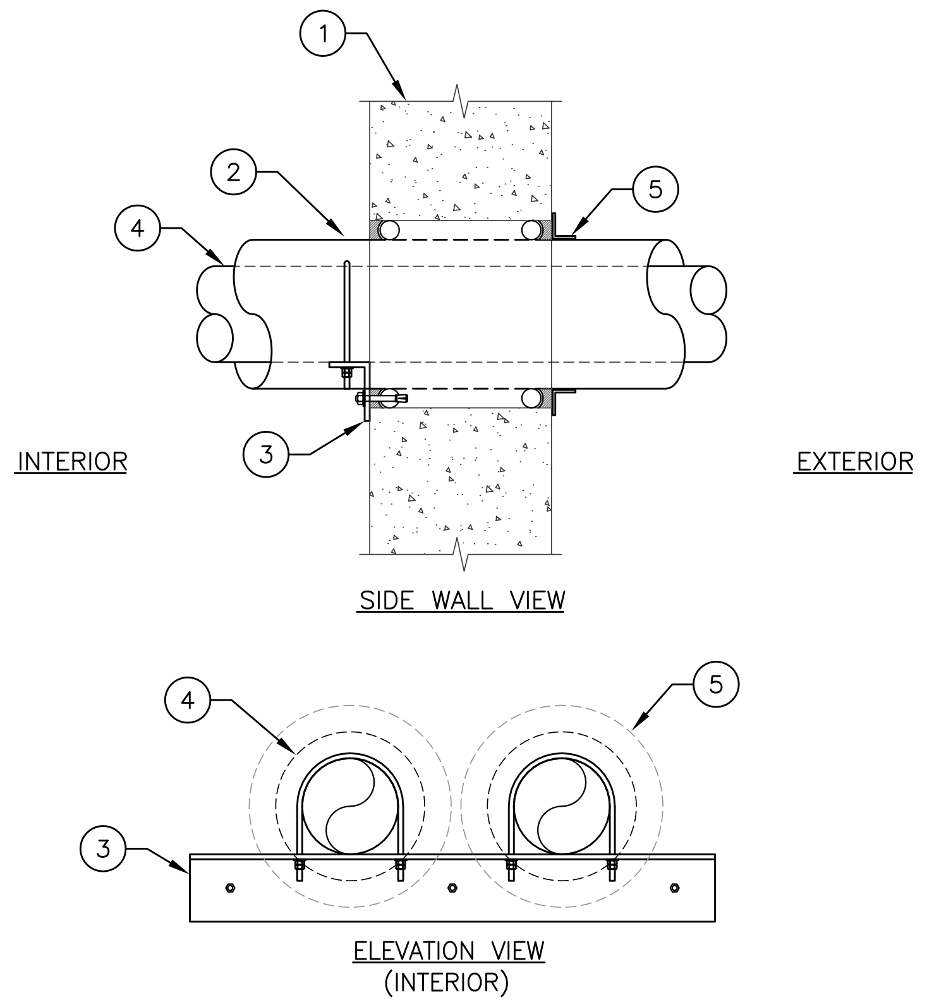
PIPE SUPPORT ON ROOF
NTS
12

1. PIPE – SEE PLANS FOR SIZE.
2. PATE PIPE SEAL ASSEMBLY (PPS).
3. (E) RIGID INSULATION AND MEMBRANE ROOFING.
4. (E) METAL DECKING.
5. (E) STEEL BEAM.
6. B–LINE BEAM CLAMP, B760–22A.
7. B–LINE DOUBLE CHANNEL, B22A.
8. B–LINE U–BOLT, B3188.
9. 2X2X1/4" ANGLE IRON.
10. SECURE ANGLE TO DOUBLE CHANNEL W/ (2)HEX BOLTS AND CHANNEL NUTS.



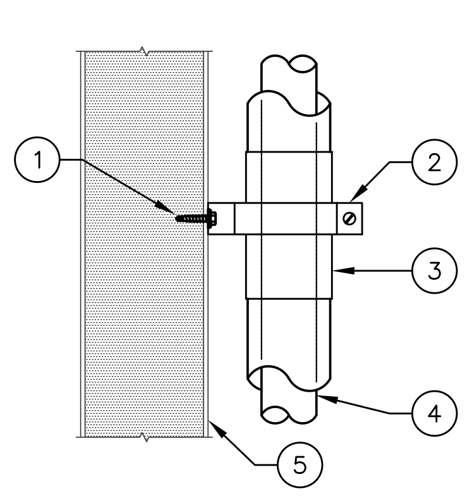
PIPE THRU ROOF
NTS
13

1. EXTERIOR WALL
2. PIPE INSULATION
3. 2x2x1/4" ANGLE IRON FASTENED TO WALL WITH (3) 3/8"ø HILTI KB–TZ2 SS ANCHORS, 2–1/2" MIN. EMBEDMENT.
4. PIPING W/ INSUL. ANCHORED WITH 1/4" U–BOLT, WASHERS, NUTS TYP.
5. 20 GA. MINIMUM GALV. SM COLLAR SEALED W/ WATERPROOF CONSTRUCTION ADHESIVE.



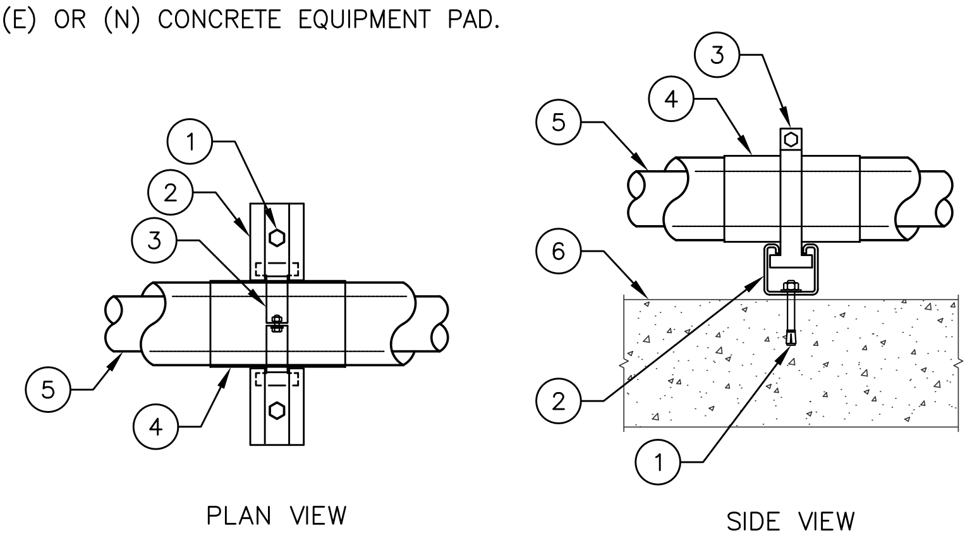
PIPE THRU CONCRETE WALL
NTS
7

1. SECURE PIPE CLAMP TO (E) STEEL FREEZER/REFRIGERATOR INSULATED WALL PANEL WITH #12 GALV. SHEET METAL SCREW AND WASHER.
2. "B–LINE" BL1400 SERIES PIPE CLAMP, TYPICAL.
3. GALV. PIPE SHIELD.
4. DRAIN PIPE WITH ELASTOMER FOAM INSULATION, SEE PLAN FOR SIZE.
5. (E) STEEL FREEZER/REFRIGERATOR INSULATED WALL PANEL.



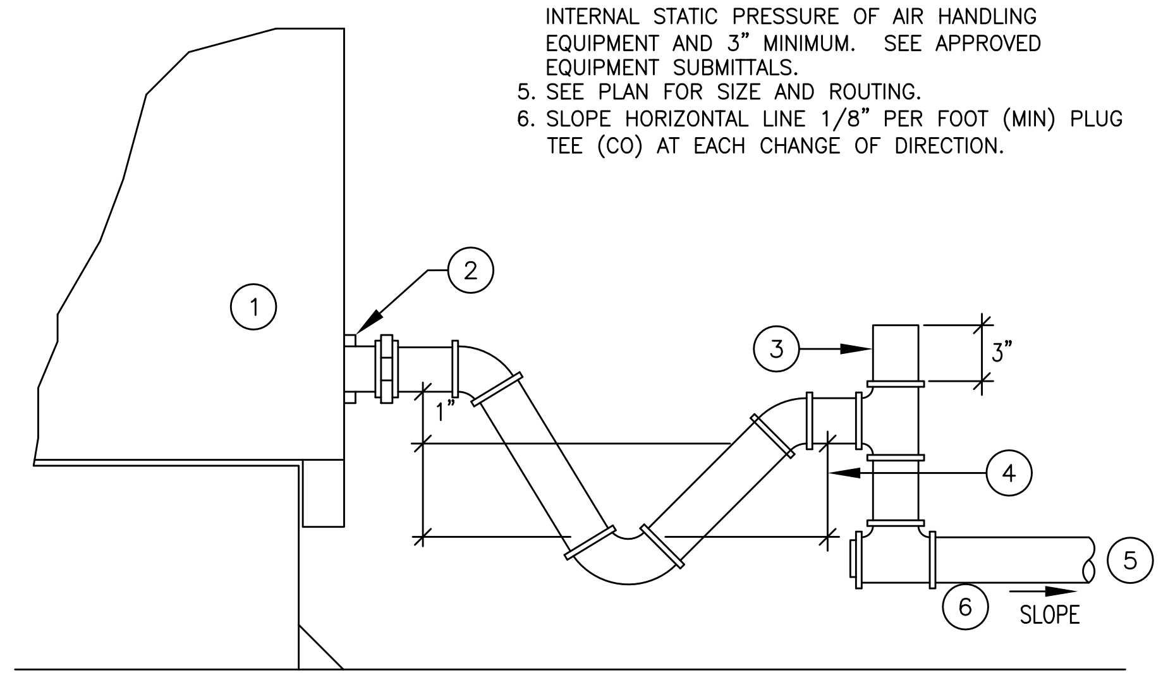
PPISA01G
PIPE SUPPORT AT FREEZER/REFER. WALL
NTS
8

1. (2) 3/8"ø HILTI KB–TZ2 SS ANCHORS, 2–1/2" MIN. EMBEDMENT.
2. "B–LINE" B22 CHANNEL.
3. "B–LINE" SERIES 2000 PIPE CLAMP, TYPICAL.
4. GALV. PIPE SHIELD.
5. PIPE W/ ALUMINUM JACKET AND INSULATION, SEE PLAN FOR SIZE.
6. (E) OR (N) CONCRETE EQUIPMENT PAD.



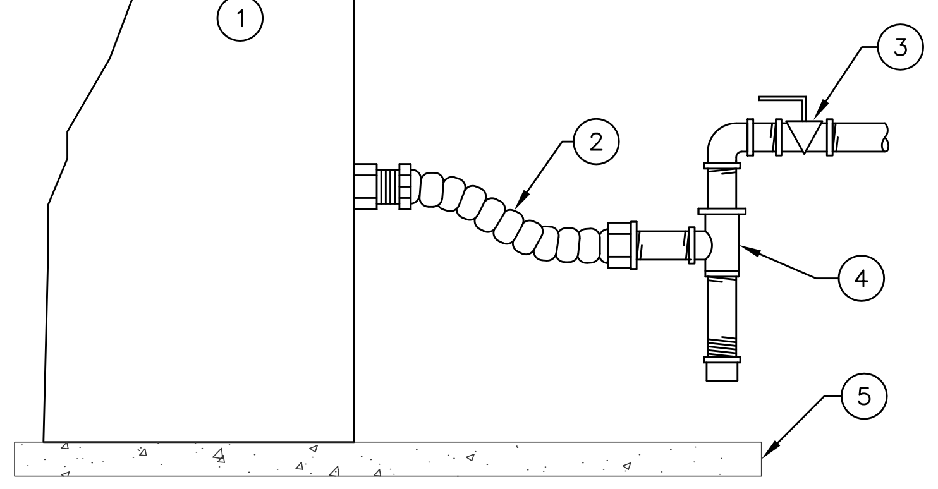
PIPE SUPPORT AT CONCRETE PAD/WALL
NTS
9

1. AIR HANDLING EQUIPMENT.
2. INSTALL UNION AT DRAIN CONNECTION.
3. TEE WITH REMOVABLE CAP.
4. DEPTH OF TRAP SEAL TO BE 1" MORE THAN TOTAL INTERNAL STATIC PRESSURE OF AIR HANDLING EQUIPMENT AND 3" MINIMUM. SEE APPROVED EQUIPMENT SUBMITTALS.
5. SEE PLAN FOR SIZE AND ROUTING.
6. SLOPE HORIZONTAL LINE 1/8" PER FOOT (MIN) PLUG TEE (CO) AT EACH CHANGE OF DIRECTION.



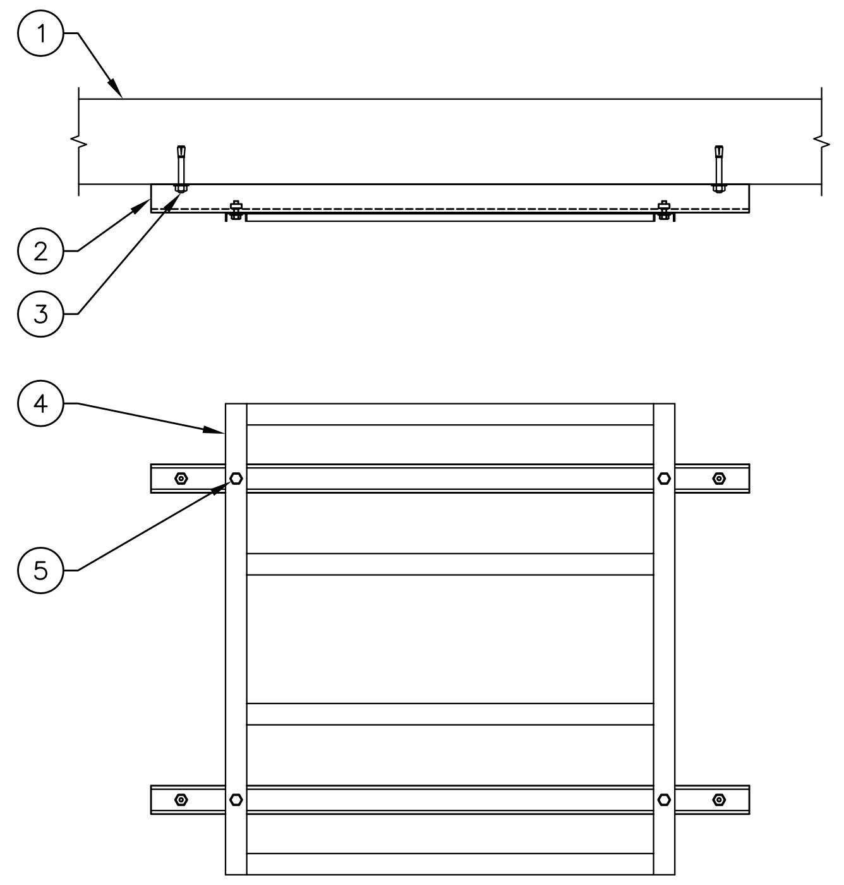
CONDENSATE DRAIN CONNECTION
NTS
4

1. GAS FIRED EQUIPMENT
2. STAINLESS STEEL FLEX CONNECTOR.
3. GAS SHUT OFF VALVE.
4. TEE WITH 4" LONG DIRT LEG AND REMOVABLE CAP.
5. (E)CONCRETE PAD



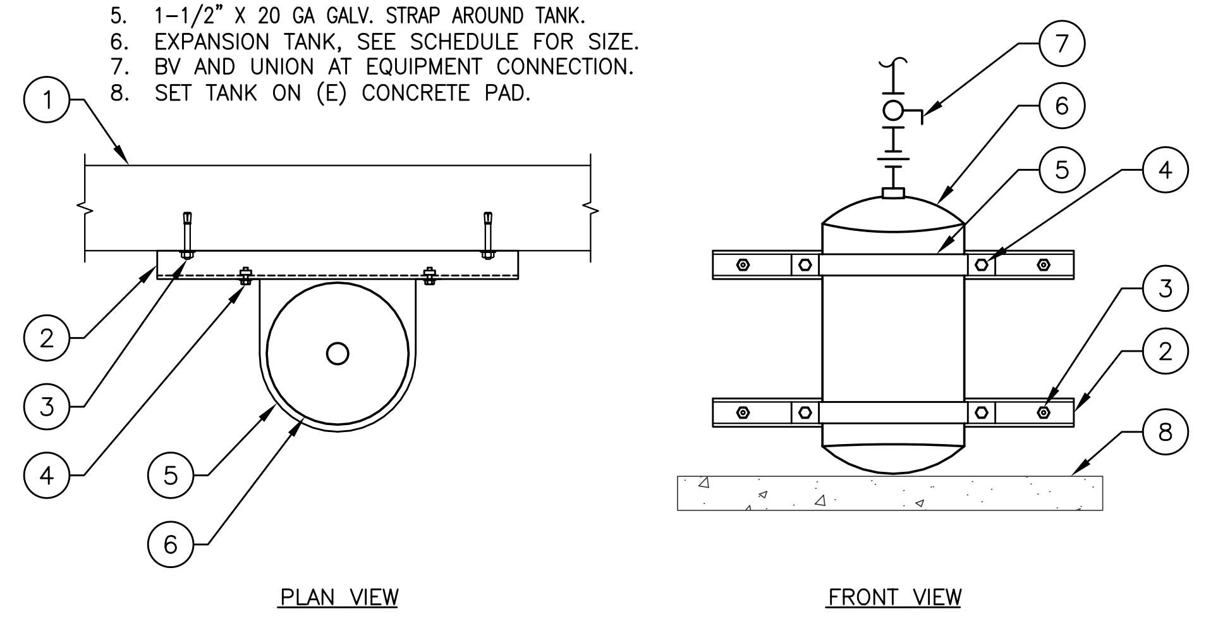
PFUPI01B
GAS CONNECTION
NTS
5

1. (E)GROUT FILLED CMU EXTERIOR WALL.
2. B–LINE B22 GALV. CHANNEL, 24" LONG.
3. SECURE CHANNEL TO WALL WITH (2) HILTI KB–TZ2 SS ANCHORS, 2–1/2" EMBEDMENT.
4. THERMOSTATIC MIXING VALVE AND FRAME ASSEMBLY FROM MFR.
5. SECURE FRAME TO CHANNEL WITH $\frac{3}{8}$" GALV. CHANNEL NUT, HEX BOLT, WASHER, TYP.



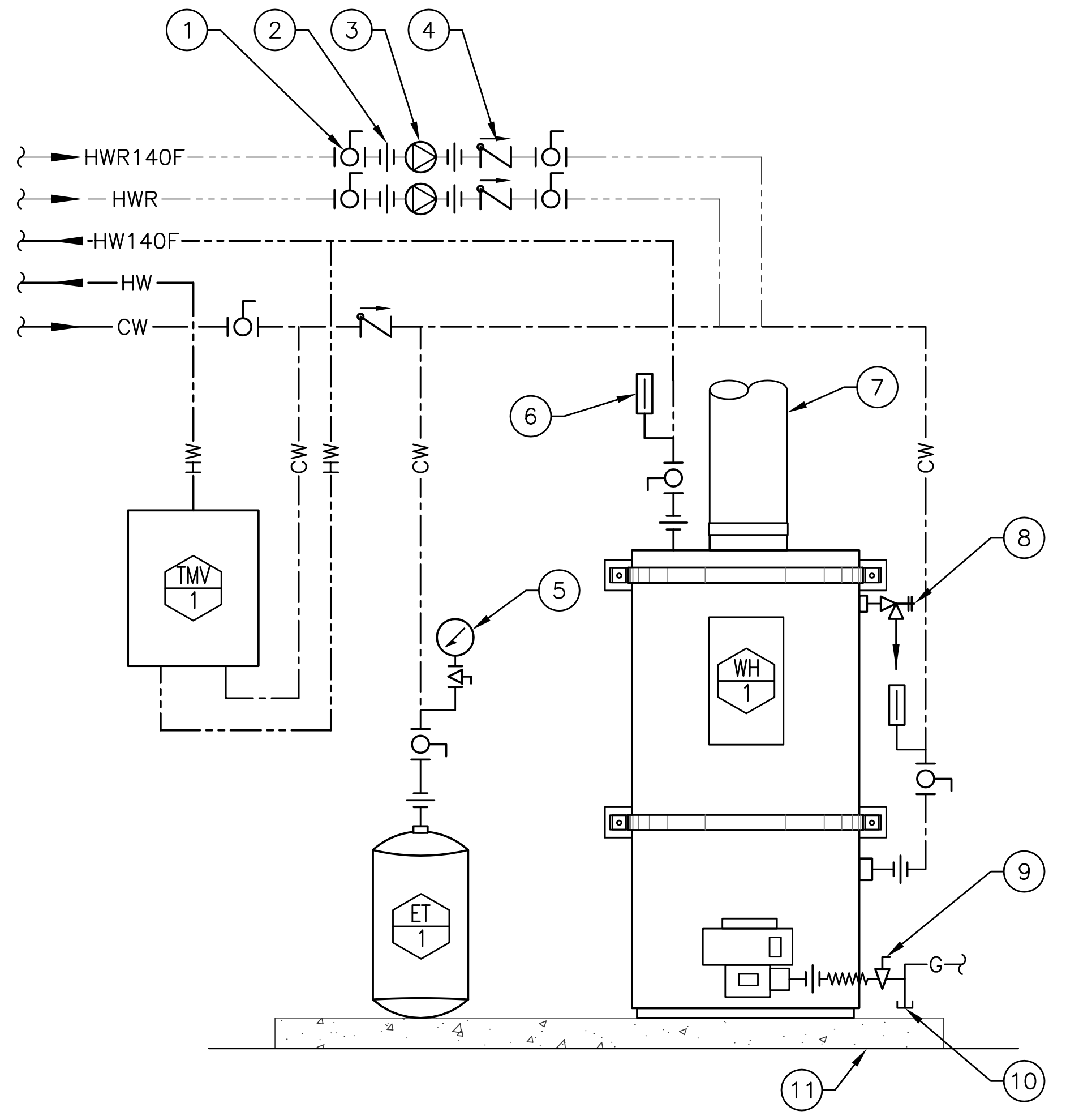
THERMOSTATIC MIXING VALVE MOUNTING
NTS
6

1. (E) CONCRETE EXTERIOR WALL.
2. B–LINE B22 GALV. CHANNEL, 24" LONG.
3. SECURE CHANNEL TO WALL WITH (2) HILTI KB–TZ2 SS ANCHORS, 2–1/2" EMBEDMENT.
4. SECURE STRAP TO CHANNEL WITH $\frac{3}{8}$" GALV. CHANNEL NUT, HEX BOLT, WASHER, TYP.
5. 1–1/2" X 20 GA GALV. STRAP AROUND TANK.
6. EXPANSION TANK, SEE SCHEDULE FOR SIZE.
7. BV AND UNION AT EQUIPMENT CONNECTION.
8. SET TANK ON (E) CONCRETE PAD.



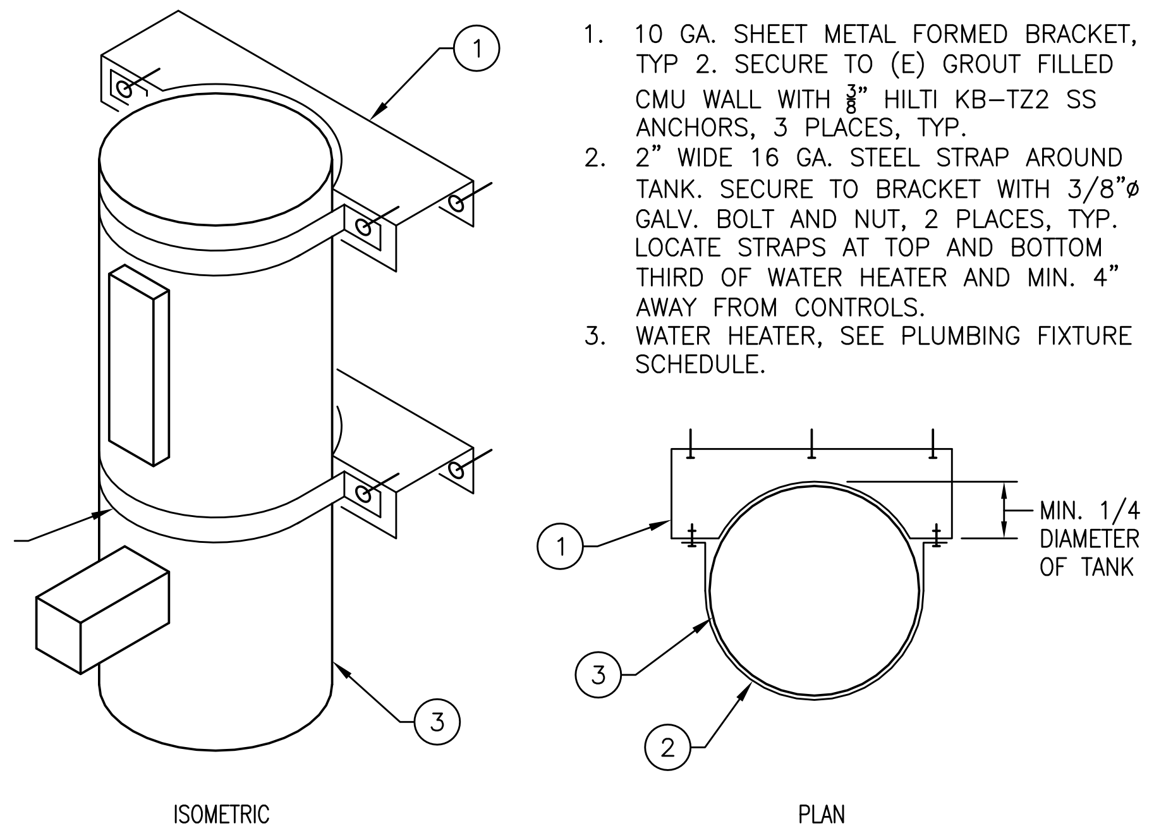
PHOEQ10A
EXPANSION TANK MOUNTING DETAIL
NTS
1

1. BALL VALVE, TYP.
2. UNION, TYP.
3. CIRCULATION PUMPS, SEE PLANS/SCHEDULE.
4. CHECK VALVE, TYP.
5. PRESSURE GAUGE.
6. THERMOMETER, TYP.
7. TYPE B VENT.
8. ASME T&P RELIEF VALVE AND FULL SIZE DRAIN TO GRADE.
9. GAS COCK, TYP.
10. DIRT LEG, TYP.
11. (E)CONCRETE PAD.



WATER HEATER PIPING DIAGRAM
NTS
2

1. 10 GA. SHEET METAL FORMED BRACKET, TYP 2. SECURE TO (E) GROUT FILLED CMU WALL WITH $\frac{3}{8}$" HILTI KB–TZ2 SS ANCHORS, 3 PLACES, TYP.
2. 2" WIDE 16 GA. STEEL STRAP AROUND TANK. SECURE TO BRACKET WITH 3/8"ø GALV. BOLT AND NUT, 2 PLACES, TYP. LOCATE STRAPS AT TOP AND BOTTOM THIRD OF WATER HEATER AND MIN. 4" AWAY FROM CONTROLS.
3. WATER HEATER, SEE PLUMBING FIXTURE SCHEDULE.



WATER HEATER MOUNTING
NTS
3

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#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

COR
24-014

PLUMBING DETAILS
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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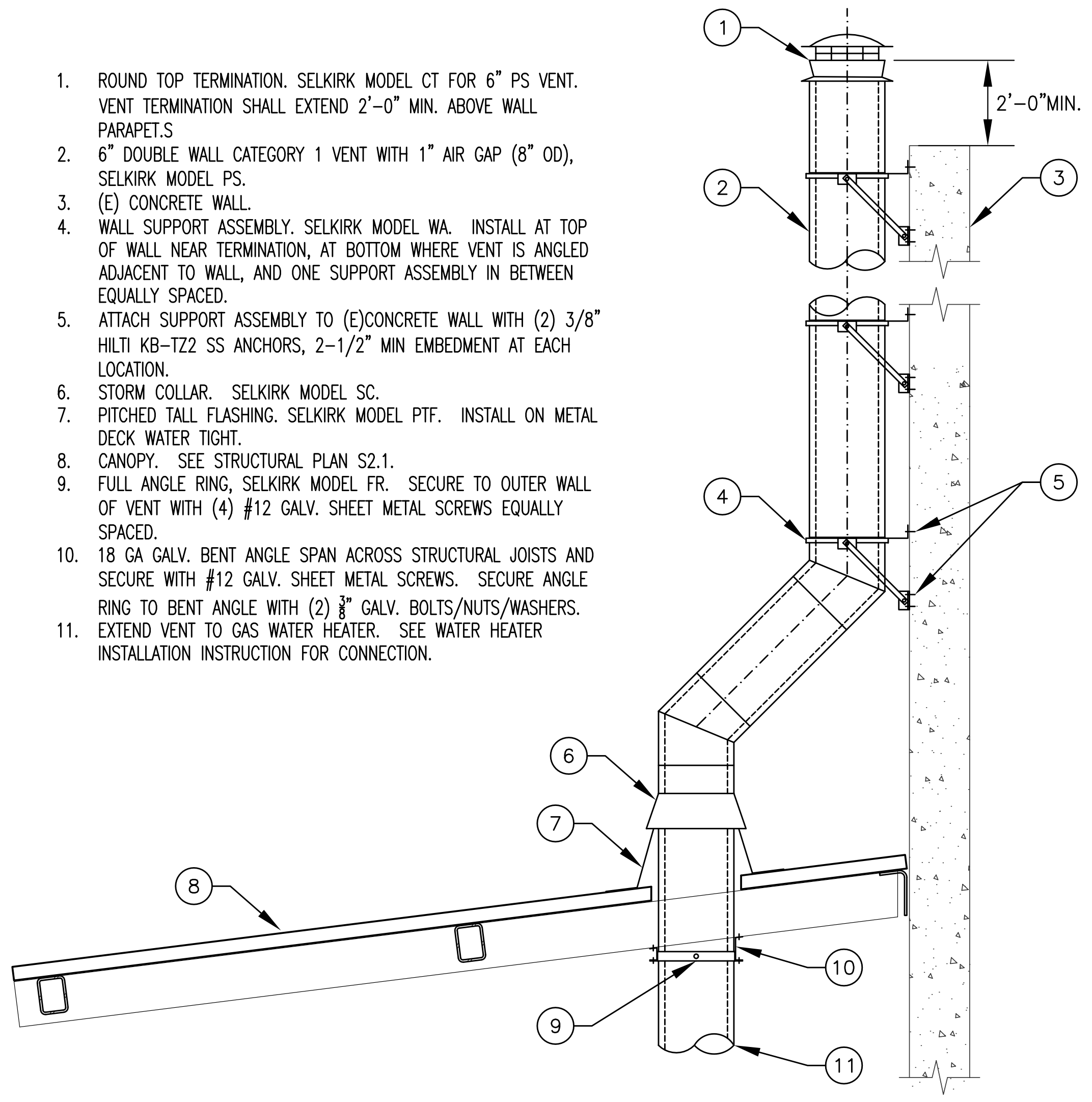
REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

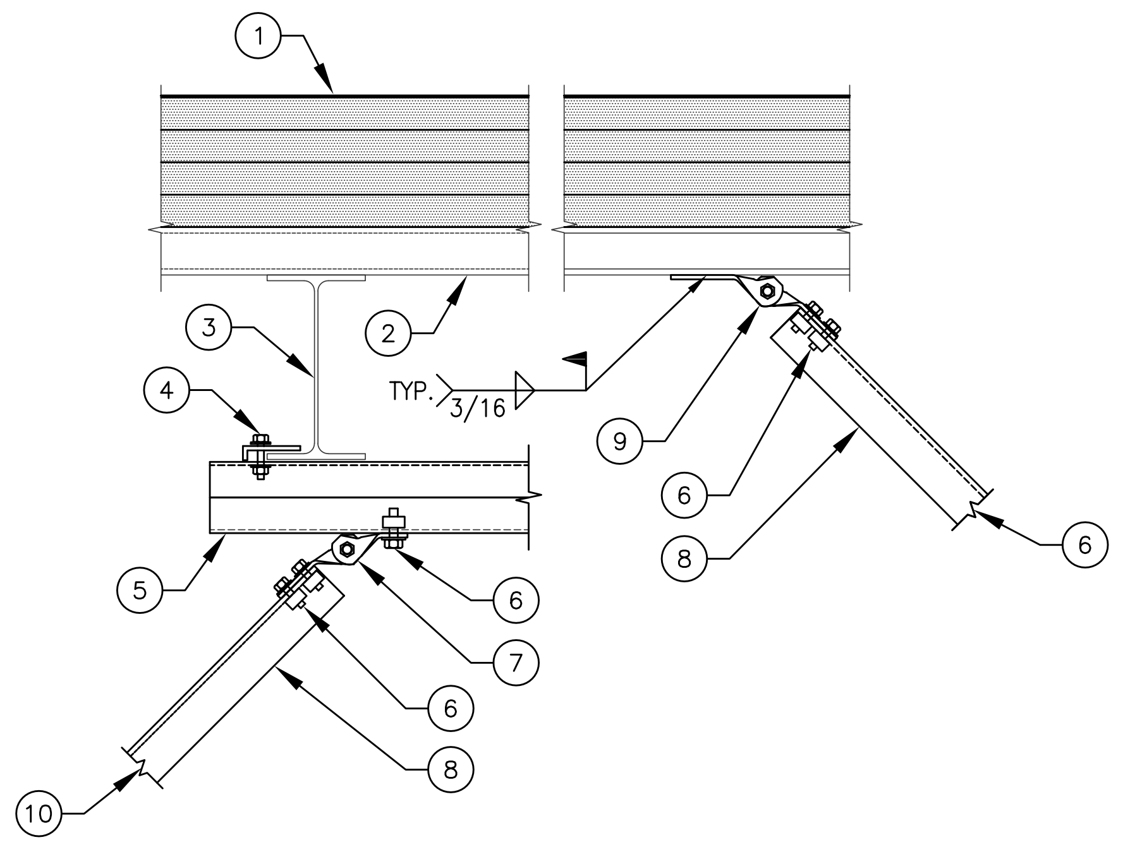
SHEET NUMBER
P5.1
OF # SHEETS
V3

1. ROUND TOP TERMINATION. SELKIRK MODEL CT FOR 6" PS VENT. VENT TERMINATION SHALL EXTEND 2'-0" MIN. ABOVE WALL PARAPET.S
2. 6" DOUBLE WALL CATEGORY 1 VENT WITH 1" AIR GAP (8" OD), SELKIRK MODEL PS.
3. (E) CONCRETE WALL.
4. WALL SUPPORT ASSEMBLY. SELKIRK MODEL WA. INSTALL AT TOP OF WALL NEAR TERMINATION, AT BOTTOM WHERE VENT IS ANGLED ADJACENT TO WALL, AND ONE SUPPORT ASSEMBLY IN BETWEEN EQUALLY SPACED.
5. ATTACH SUPPORT ASSEMBLY TO (E)CONCRETE WALL WITH (2) 3/8" HILTI KB-TZ2 SS ANCHORS, 2-1/2" MIN EMBEDMENT AT EACH LOCATION.
6. STORM COLLAR. SELKIRK MODEL SC.
7. PITCHED TALL FLASHING. SELKIRK MODEL PTF. INSTALL ON METAL DECK WATER TIGHT.
8. CANOPY. SEE STRUCTURAL PLAN S2.1.
9. FULL ANGLE RING, SELKIRK MODEL FR. SECURE TO OUTER WALL OF VENT WITH (4) #12 GALV. SHEET METAL SCREWS EQUALLY SPACED.
10. 18 GA GALV. BENT ANGLE SPAN ACROSS STRUCTURAL JOISTS AND SECURE WITH #12 GALV. SHEET METAL SCREWS. SECURE ANGLE RING TO BENT ANGLE WITH (2) $\frac{3}{8}$" GALV. BOLTS/NUTS/WASHERS.
11. EXTEND VENT TO GAS WATER HEATER. SEE WATER HEATER INSTALLATION INSTRUCTION FOR CONNECTION.



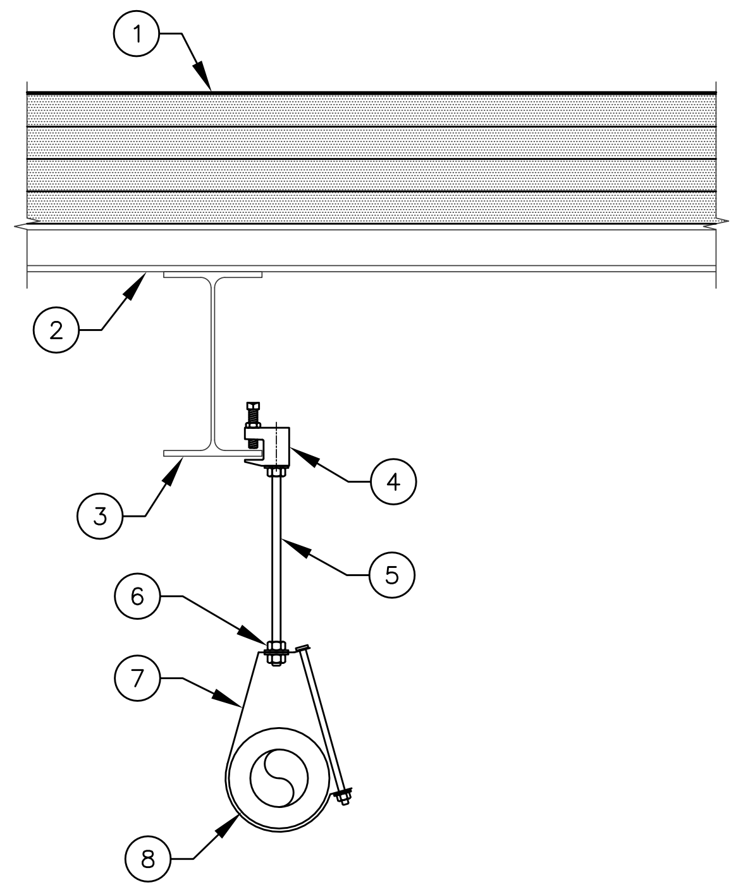
WATER HEATER VENT DETAIL NTS 7

1. (E) RIGID INSULATION ROOFING
2. (E) METAL DECKING
3. (E) STEEL BEAM
4. BEAM CLAMP, B-LINE, B355 W/ 1/2" CHANNEL NUT, HEX BOLT AND WASHER.
5. B-LINE B22A DOUBLE CHANNEL.
6. 3/8" HEX BOLT, WASHER AND CHANNEL NUT, TYP.
7. B-LINE B335-2 SERIES THREE HOLE ADJUSTABLE HINGE.
8. B-LINE B22 CHANNEL.
9. B-LINE B335 FOUR HOLE ADJUSTABLE HINGE.
10. SEE DETAILS FOR UPPER ATTACHMENT OF CHANNEL, TYP.



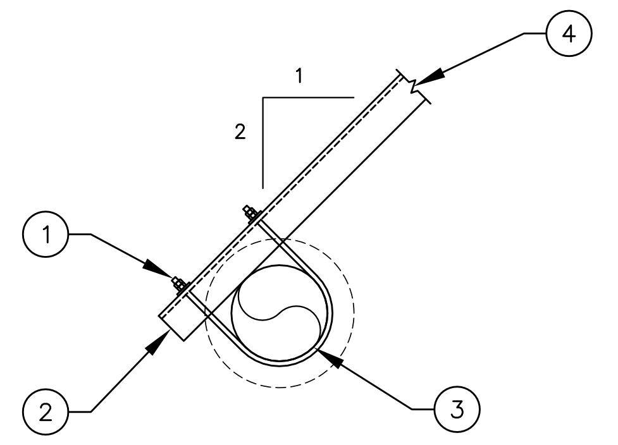
BRACE UPPER ATTACHMENT TO BEAM/DECK NTS 4

1. (E) RIGID INSULATION AND MEMBRANE ROOFING.
2. (E) METAL DECKING.
3. (E) STEEL BEAM.
4. C-CLAMP FITTING, B-LINE B3033.
5. 3/8 THREADED ROD.
6. 3/8 WASHERS AND NUTS, TYPICAL.
7. PIPE J-HANGER, B-LINE B3960.
8. PIPE, SEE PLAN FOR SIZE.



PIPE HANGER DETAIL NTS 1

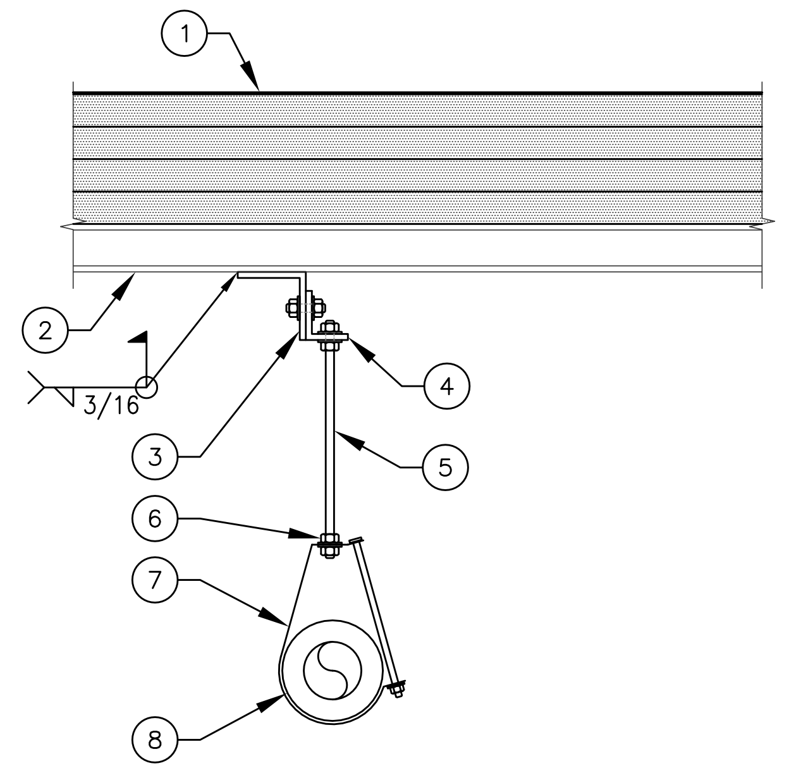
1. B-LINE B501 SERIES U-BOLT. SECURE AROUND PIPE AND TO CHANNEL WITH (2)NUTS AND A SQUARE WASHER EACH LEG, TYP.
2. B-LINE B22 CHANNEL.
3. PIPE, SEE PLANS FOR SIZE.
4. SEE DETAILS FOR UPPER ATTACHMENT OF CHANNEL, TYP.



NOTE:
ALL HANGER AND BRACING COMPONENTS ARE BASED ON B-LINE, OPA-0114

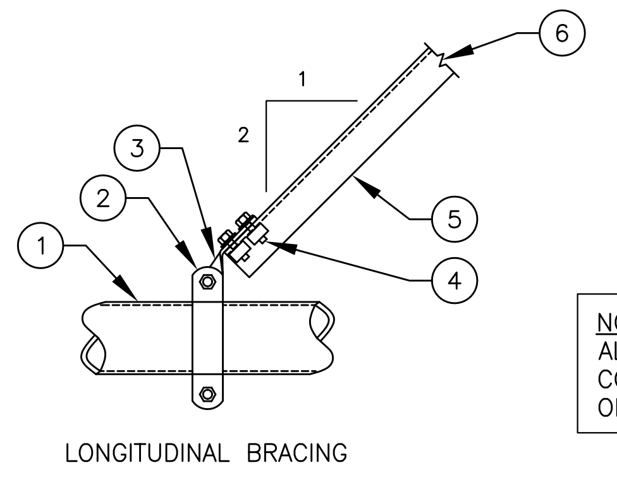
SEISMIC BRACING DETAIL - LATERAL NTS 5

1. (E) RIGID INSULATION AND MEMBRANE ROOFING.
2. 2"X2"X3" LONG CS ANGLE, WELD TO BOTTOM FLUTE OF DECK.
3. (E) ANGLE IRON ROOF FRAMING.
4. TWO HOLE CORNER ANGLE FITTING, ATTACHED WITH 3/8 WASHER AND HEX BOLT EACH SIDE.
5. 3/8 THREADED ROD.
6. 3/8 WASHERS/NUTS, TYPICAL.
7. PIPE J-HANGER, B-LINE B3960.
8. PIPE, SEE PLAN FOR SIZE.



PIPE HANGER DETAIL NTS 2

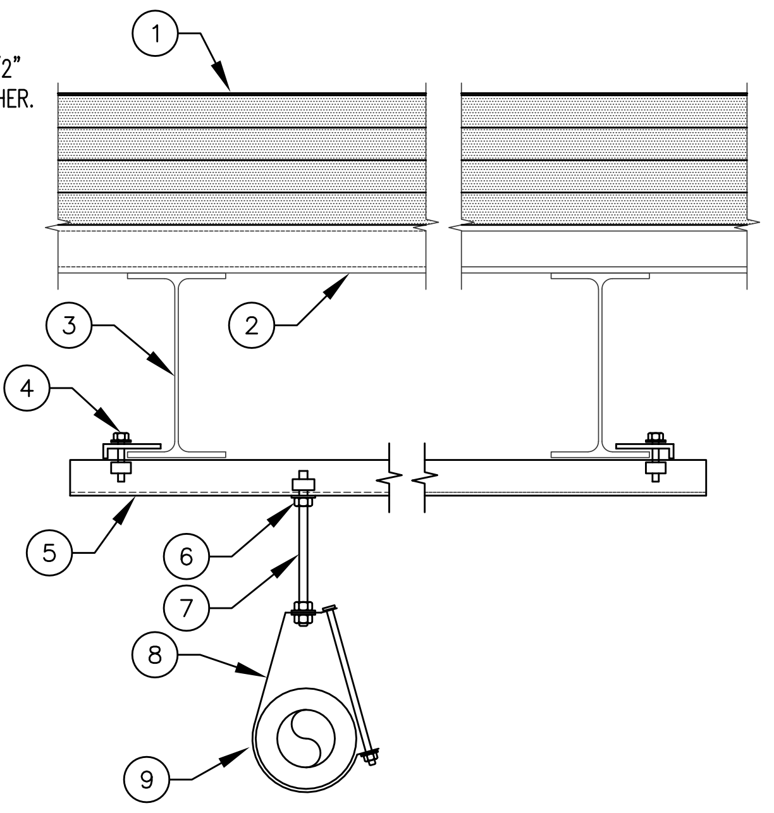
1. PIPE - SEE PLAN FOR SIZE.
2. B-LINE B3373CT RISER CLAMP SERIES
3. B-LINE B335V THREE HOLE HALF HINGE.
4. 3/8" HEX BOLT, WASHER AND CHANNEL NUT, TYP.
5. B-LINE B22 CHANNEL.
6. SEE DETAILS FOR UPPER ATTACHMENT OF CHANNEL, TYP.



NOTE:
ALL HANGER AND BRACING COMPONENTS ARE BASED ON B-LINE, OPA-0114

SEISMIC BRACING DETAIL - LONGITUDINAL NTS 6

1. (E) RIGID INSULATION AND MEMBRANE ROOFING.
2. (E) METAL DECKING.
3. (E) STEEL BEAM.
4. BEAM CLAMP, B-LINE, B355 W/ 1/2" CHANNEL NUT, HEX BOLT AND WASHER.
5. 1-5/8" CHANNEL, B-LINE B222.
6. 3/8 HEX BOLT AND CHANNEL NUT.
7. 3/8 THREADED ROD.
8. PIPE J-HANGER, B-LINE B3960.
9. PIPE, SEE PLAN FOR SIZE.



PIPE HANGER DETAIL NTS 3

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No. M31782
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STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

PLUMBING DETAILS
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

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REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
P5.2
OF # SHEETS V3

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR CODES AS ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONSULTANTS AND OWNER SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL WORK PERFORMED AND ALL EQUIPMENT AND MATERIALS FURNISHED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE CDCR REPRESENTATIVE.

6. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR ON PROJECT.

8. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

9. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL NEW HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.

10. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF THE RENOVATION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN THE APPROVED MANNER FOR WHICH THEY ARE DESIGNED.

11. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES AND DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN AUTOCAD FORMAT. CONTRACTOR HAND MARKED REDLINED AS-BUILT DRAWINGS WILL NOT BE ACCEPTED.

12. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.

13. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE CDCR REPRESENTATIVE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK SHALL BE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, CDCR NEEDS ADVANCE NOTICE PER CDCR APPROVE SCHEDULE.

14. THE ARRANGEMENT OF EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND ADDITIONS.

15. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND INSTALLATION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE CDCR REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.

16. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF HIS WORK.

17. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.

18. PLAN CHECK AND INSPECTION FEES SHALL BE PAID BY CDCR. CONTRACTOR SHALL PAY ALL OTHER FEES ACCORDING TO CONTRACT.

19. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.

20. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

21. GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS, AND CONSTRUCTED, SUPPORTED AND INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.

22. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.

23. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT, IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITION(S) OF THE CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.

24. ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.

25. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

24. PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS:

A. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, OR AS DETAILED AND SPECIFIED HEREIN.

B. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER.

C. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

27. CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD AND CDCR REPRESENTATIVE.

28. ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.

29. ALL CONDUIT AND WIRE REQUIRED FOR THE NEW CONTROL SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CDCR APPROVED CONTROLS CONTRACTOR.

30. ALL DUCTWORK AND PIPING INSULATION SHALL MEET FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM E-84, NFPA 255 AND UL 723 AND SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.

31. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ROUTING OF ALL DUCTWORK AND PIPING AND SUBMIT DETAILED, CLEARLY LEGIBLE, FULL SIZE (MINIMUM 30"x42") DUCT AND PIPING SHOP DRAWINGS IN AUTOCAD FORMAT FOR APPROVAL FROM THE ENGINEER PRIOR TO FABRICATION, CONSTRUCTION AND INSTALLATION OF DUCTWORK AND PIPING.

32. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF COMPONENTS AT LEAST TWO WEEKS PRIOR TO INSTALLATION.

33. CDCR REPRESENTATIVE SHALL INSPECT AND APPROVE OF ALL WORK BEFORE COVERING WITH INSULATION OR INSTALLATION WITHIN CEILING SPACE.

34. APPROVAL OR DISAPPROVAL BY THE INSPECTOR OF RECORD DOES MEAN APPROVAL OR FAILURE TO COMPLY WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS NOT CLEAR OR IS AMBIGUOUS SHALL BE REFERRED TO THE CONSULTANTS AND OWNER FOR INTERPRETATION OR CLARIFICATION.

35. CONTRACTOR SHALL USE ALL NECESSARY APPROVED MEANS TO PROTECT HIS PORTION OF THE WORK BEFORE, DURING, AND AFTER INSTALLATION, UNTIL ACCEPTED, AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF OTHER TRADES IN A LIKE MANNER. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL MAKE ALL REQUIRED REPAIRS AND REPLACEMENTS TO THE SATISFACTION OF THE CONSULTANTS AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

36. NEITHER THE ARCHITECT OR OWNER NOR CONSULTANTS OF THE ARCHITECT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL SUCH MATTERS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

37. A MINIMUM OF 36" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT PROTECTION DEVICES, AND ELECTRICAL CONTROL COMPONENTS.

38. CONTRACTOR SHALL OBTAIN AND FOLLOW ALL CDCR REQUIREMENTS, GUIDELINES, RULES, AND PROCEDURES FOR CONSTRUCTION. PROVIDE INSURANCE IN ACCORDANCE WITH CDCR REQUIREMENTS.

39. DEMOLITION OF ANY EXISTING AC UNITS, DUCTWORK, AND PIPING SHALL BE COORDINATED WITH CDCR FACILITIES AND OPERATIONS. CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE SHUT-DOWN OF EXISTING UNITS.

40. EXISTING SURFACES AND AREAS NOT INCLUDED IN THE WORK AREA SHALL BE PROTECTED FROM DAMAGE BY APPROVED MEANS. IF DAMAGE OCCURS, THE DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO SATISFACTION OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

41. REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS PROJECT AND LEAVE THE PREMISES CLEAN AND ORDERLY UPON COMPLETION OF WORK.

42. UPON COMPLETION OF PIPING, BUT PRIOR TO APPLICATION OF INSULATION, THE CONTRACTOR SHALL TEST THE PIPING SYSTEMS FOR LEAKS. EQUIPMENT WHICH MAY BE DAMAGED BY THE SPECIFIED TEST CONDITIONS SHALL BE ISOLATED.

43. IDENTIFY ALL PIPES WITH MATERIAL CARRIED AND DIRECTION OF FLOW. CONFORM TO ANSI A13.1.

44. ON INSULATED PIPING: ALL VALVES HANDLES, AIR VENTS AND PRESSURE/TEMPERATURE READOUT PORTS TO BE PROVIDED WITH 2" EXTENSION TO CLEAR PIPING INSULATION.

45. CDCR NEED ADVANCE NOTICE PER CDCR APPROVE SCHEDULE FOR THE SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM.

46. INDEPENDENT BALANCING AND TESTING CONTRACTOR SHALL PROVIDE WRITTEN WATER AND AIR BALANCE REPORT FOR ALL HVAC EQUIPMENT INCLUDED IN THIS PROJECT.

47. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE ALL WORK SCHEDULE WITH CDCR REPRESENTATIVE. SHUTDOWN OF ANY EXISTING MECHANICAL SYSTEM SHALL BE SCHEDULED FOR WEEKENDS OR AFTER BUSINESS HOURS. THE CONTRACTOR SHALL SUBMIT TO CDCR REPRESENTATIVE A PLAN, TWO-WEEKS IN ADVANCE, IDENTIFYING SERVICES TO BE DISRUPTED, DATES, TIMES AND DURATION OF SERVICES SHUTDOWN.

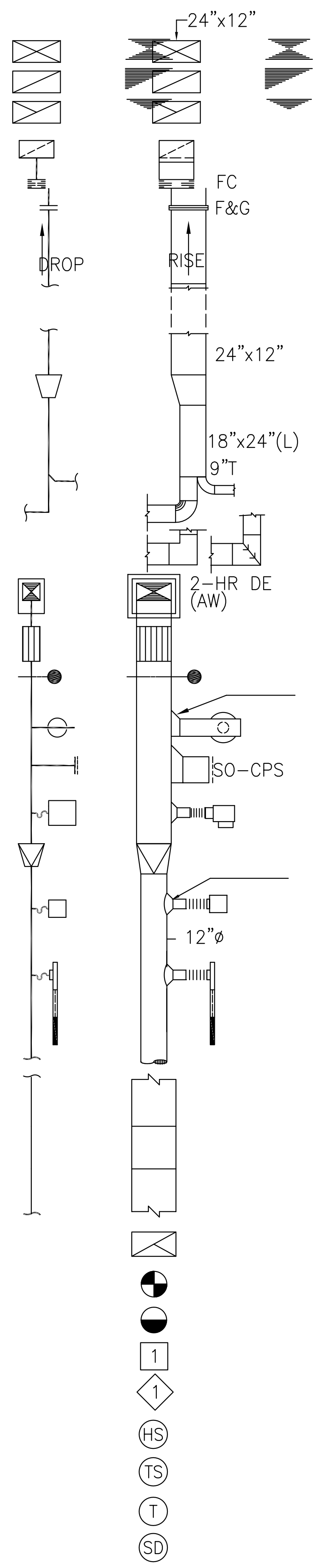
48. SHUT-DOWN ALL AIR HANDLING UNITS PRIOR TO CONSTRUCTION COMMENCEMENT. ALL OPEN ENDS OF INSTALLED SUPPLY, RETURN, EXHAUST DUCTWORK SHALL BE SEALED BY CONTRACTOR WITH PLASTIC MATERIAL TO PREVENT CONTAMINATION, UNTIL START-UP OR TESTING/OPERATION OF THE SYSTEM. CDCR NEEDS ADVANCE NOTICE OF SHUTDOWN PER CDCR APPROVE SCHEDULE.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BTU/HR.	BRITISH THERMAL UNIT PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFSD	COMBINATION FIRE/SMOKE DAMPER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT
FC	FAN COIL UNIT
FPI	FINS PER INCH
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FS	FIRE SPRINKLER
FT	FEET
GPM	GALLONS PER MINUTE
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
HTS	HIGH TEMPERATURE WATER SUPPLY
HTR	HIGH TEMPERATURE WATER RETURN
HOA	HAND/OFF/AUTO SWITCH
HP	HORSEPOWER
HR	HOUR
ICW	INDUSTRIAL COLD WATER
IN	INCHES
IN. W.C.	INCHES OF WATER COLUMN
KW	KILOWATT
L	LENGTH
(L)	LINER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU/HR X 1,000
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
OSA	OUTSIDE AIR
dP	DIFFERENTIAL PRESSURE
PH	PHASE
QTY	QUANTITY
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SENS	SENSIBLE
SF	SUPPLY FAN
SR	SUPPLY REGISTER
SQFT.	SQUARE FEET
TI	TEMPERATURE INDICATOR
TT	TEMPERATURE TRANSDUCER
TYP	TYPICAL
TSP	TOTAL STATIC PRESSURE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VP	VELOCITY PRESSURE
WB	WET BULB
"W.C.	INCHES WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT

HVAC SYMBOLS

ONE LINE — DOUBLE LINE — DESCRIPTION



DUCT SIZE – FIRST DIMENSION IS PARALLEL TO NOTE
SUPPLY/DISCHARGE AIR DUCT FACING VIEWER
RETURN/INTAKE AIR DUCT FACING VIEWER
OUTSIDE AIR DUCT FACING VIEWER
DUCT FACING AWAY FROM VIEWER
FLEXIBLE CONNECTION
FLANGED & GASKETED CONNECTION
OFFSET IN DIRECTION OF FLOW
DUCT CONTINUES
DUCT NOT SHOWN FOR CLARITY OF EQUIPMENT BELOW
DUCT SIZE – FIRST DIMENSION FACES VIEWER
SIZE TRANSITION
ACOUSTICALLY LINED DUCT – SIZE IS INTERNAL (SHEET METAL SIZE IS LARGER THAN SHOWN)
THROAT WIDTH
ROUND ELBOW
SHORT RADIUS ROUND ELBOW W/ SPLITTER VANES
2-HOUR DUCT ENCLOSURE
SOUND ATTENUATOR
DAMPER
PRESSURE TAP
DIFFUSER OR GRILLE – HARD CONNECTED
SCREENED OPENING IN CEILING PLENUM SPACE
AIR TERMINAL UNIT – SIZE & TYPE SHOWN
RECTANGULAR TO ROUND TRANSITION
CONICAL TAP-IN
DIFFUSER OR GRILLE – FLEXIBLY CONNECTED
ROUND DUCT DIAMETER
LINEAR OR AIR BAR SUPPLY
LINEAR OR AIR BAR RETURN
AIR BAR BLANK-OFF
ROUND DUCT CONTINUES
EXISTING DUCTWORK TO BE REMOVED
EXISTING DUCT TO REMAIN
NEW DUCTWORK
EXHAUST DUCT
POINT OF CONNECTION
POINT OF DISCONNECTION
NEW WORK KEYNOTE
DEMOLITION KEYNOTE
HUMIDITY SENSOR
THERMOSTAT SENSOR
THERMOSTAT
DUCT SMOKE DETECTOR

CODE COMPLIANCE NOTES

1. KITCHEN EQUIPMENT UNDER THE HOODS SHOULD BE INSIDE EACH HOOD (AREA) PARAMETER NFPA 96: 4.3.4 AND CMC 508.0, 2022-HOODS.

2. STUDY AND IMPROVE THE FIRE PROTECTION SYSTEM, FIRE SPRINKLER SYSTEM AND FIRE AND SMOKE DETECTORS PER FIRE CODE REQUIREMENT FOR ALL KITCHEN AND BAKERY KITCHENS FOR ALL FACILITIES AT COR: CMC 513.2.2, AND NFPA 13.

3. REMOVE ALL BROKEN KITCHEN EQUIPMENT FROM HOOD KITCHEN AREA AT EACH FACILITY AT COR FOR CDCR SECURITY/SAFETY CONCERNS.

4. BEFORE NEW SYSTEM INSTALLATION, PROVIDE CLEANING REQUIREMENTS FOR EACH HOOD SYSTEM AT EACH KITCHEN FACILITY AT COR AND ALL RECORDS SHALL STATE THE EXTENT, TIME, AND DATE OF CLEANING. SUCH RECORDS SHALL BE MAINTAINED ON THE PREMISES: CMC 514.3, CFC 904.1, CCR 19 DIV.1 904.(a)(2).

5. PROVIDE/CHECK FOR AN EXHAUST AIR-DUCT SYSTEM AND AIR INTAKE (MAKE-UP AIR) DUCT SYSTEM FOR EACH EXISTING KITCHEN HOOD: CMC 507.0.

6. INSTALL AUTOMATIC GAS SHUTOFF DEVICE FOR KITCHEN EQUIPMENT AND THE MAIN GAS SHUT-OFF DEVICE SHALL REQUIRE A MANUAL RESET: 2022 CFC 904.13.2 AND CMC 513.4 FUEL SHUT-OFF DEVICE.

7. FOR NEW SYSTEMS, THE TEST RECORDS SHALL BE RETAINED FOR A PERIOD BETWEEN THE SEMI-ANNUAL MAINTENANCE & THE INSPECTIONS, SHALL BE RECORDED AND STATE THE EXTENT, TIME, AND DATE OF MAINTENANCE INSPECTIONS. SUCH RECORDS SHALL BE MAINTAINED ON PREMISES: NFPA 17A 8.2.6 AND 8.3.3.6, AND CMC 516.6.

8. TEST EACH NEW FIRE SUPPRESSION SYSTEM FOR ALL KITCHEN HOODS AT EACH FACILITY AT COR IN ORDER TO MAKE SURE EACH NEW FIRE SUPPRESSION SYSTEM IS WORKING UNDER NORMAL OPERATION CONDITIONS: CMC 514.0 AND NFPA 96 12.2.

9. THE AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE MONITORED BY FIRE ALARM SYSTEM (SEE FIRE ALARM SEQUENCE OF OPERATIONS MATRIX ON FIRE ALARM PLANS). ELECTRICAL POWER TO THE FIRE ALARM SYSTEM SHALL ALSO BE CONNECTED TO THE EXISTING STANDBY ELECTRICAL POWER SUPPLY PROVIDED BY AN EXISTING INSTITUTION WIDE EMERGENCY GENERATOR.

10. THE MAIN AUTOMATIC GAS SHUT-OFF DEVICE AND GAS VALVE FOR ALL KITCHEN EQUIPMENT MUST BE VISIBLE PER CMC 513.4 FUEL SHUTOFF SYSTEM AND MANUALLY RESET PER 2022 CMC 513.4.3.

DRAWING LEGEND

NUMBER	SHEET TITLE
FS0.1	GENERAL NOTES, SYMBOLS, ABBREVIATIONS & LEGENDS
FS1.0	FIRE SUPPRESSION PLAN – DEMOLITION
FS1.1	FIRE SUPPRESSION ENLARGED PLAN – DEMOLITION
FS2.0	FIRE SUPPRESSION PLAN – NEW
FS2.1	FIRE SUPPRESSION ENLARGED PLAN – NEW
FS3.0	FIRE SUPPRESSION PIPING DIAGRAM

DEFERRED DESIGN SUBMITTAL

KITCHEN HOOD FIRE SUPRESSION SYSTEM WET CHEMICAL PER UL300

CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS WITH CALIFORNIA LICENSED PROFESSIONAL ENGINEER STAMP FROM AN APPROVED VENDOR WITH ALL THE REQUIREMENTS FOR A COMPLETE KITCHEN HOOD FIRE SUPPRESSION SYSTEM DESIGN CAPABLE OF PROTECTION ALL HAZARD AREAS ASSOCIATED WITH COOKING EQUIPMENT AND SUPPORTING CALCULATIONS. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF THE SHOP DRAWINGS FROM THE CALIFORNIA STATE FIRE MARSHALL PRIOR TO START OF WORK.

APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022	CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022	CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2021 NATIONAL ELECTRICAL CODE (NEC)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021UNIFORM MECHANICAL CODE (UMC)
2022	CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022	CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2020	NFPA 17A WITH CALIFORNIA AMENDMENTS
2022	NFPA 72 WITH CALIFORNIA AMENDMENTS
2021	NFPA 96 WITH CALIFORNIA AMENDMENTS
	CALIFORNIA CODE OF REGULATIONS – TITLE 19 PUBLIC SAFETY, DIVISION 1, STATE FIRE MARSHAL

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#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

FIRE SUPPRESSION LEGEND AND NOTES
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

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REVISIONS

REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024
SHEET NUMBER
FS0.1
OF # SHEETS V3

(E) KITCHEN HOOD INFORMATION

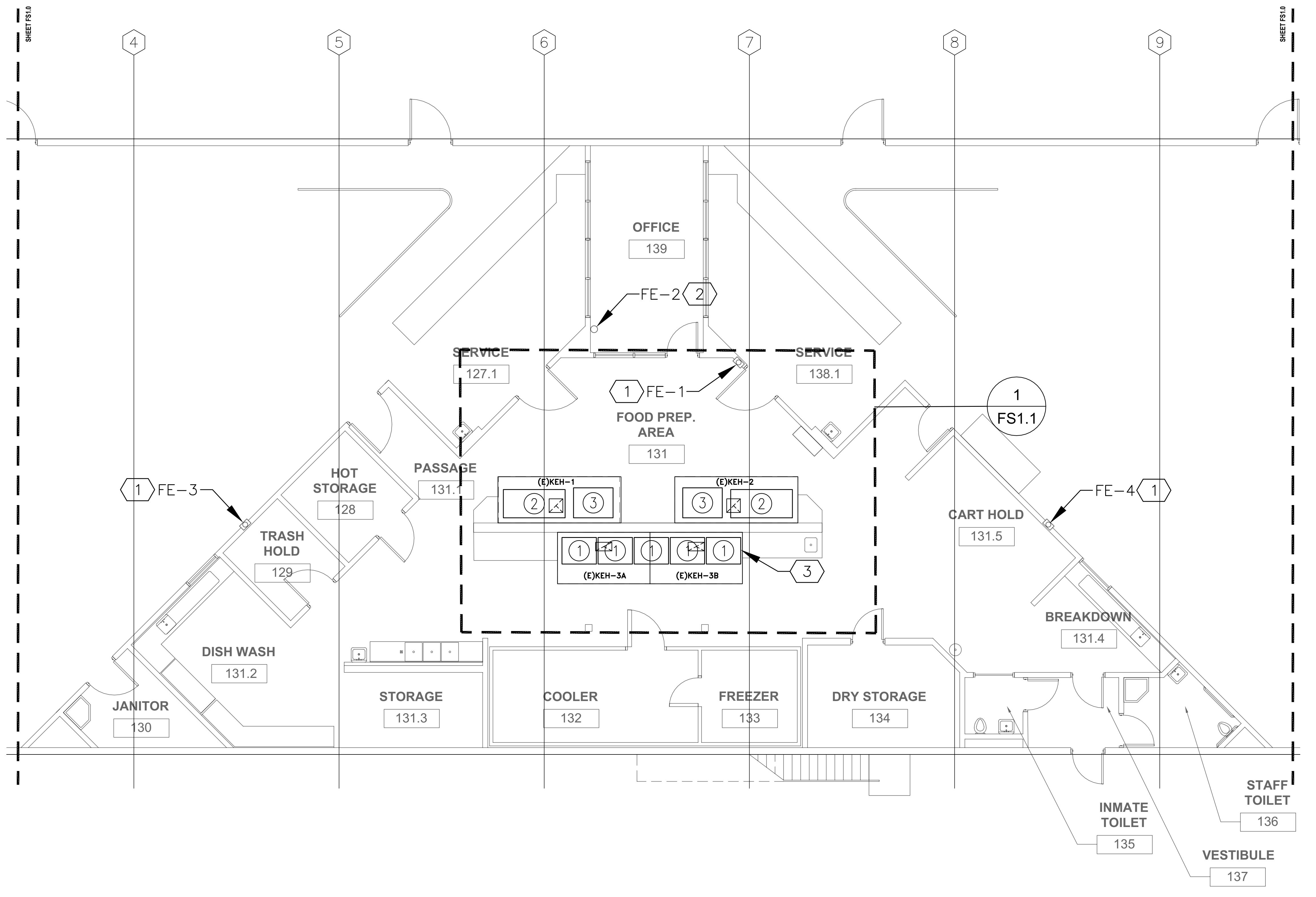
HOOD TAG	TYPE	HOOD SIZE L x W x H	SPRINKLER NOZZLES (Y OR N)/QTY	CEILING HEIGHT	HEIGHT FROM FLOOR TO BOTTOM OF HOOD
HOOD 1 AVTEC	TYPE I (GREASE VAPOR)	144"x54"x24"	Y/2+1 IN PLENUM	18'–0"	6'–6"
HOOD 2 AVTEC	TYPE I (GREASE VAPOR)	144"x54"x24"	Y/2+1 IN PLENUM	18'–0"	6'–6"
HOOD 3A AVTEC	TYPE I (GREASE VAPOR)	108"x60"x24"	Y/1 IN PLENUM	18'–0"	6'–4"
HOOD 3B AVTEC	TYPE I (GREASE VAPOR)	108"x60"x24"	Y/1 IN PLENUM	18'–0"	6'–4"

(E) COOKING EQUIPMENT INFORMATION

ITEM NUMBER	QTY	DESCRIPTION	MAKE/MODEL	DIMS: LxWxH IN.	DESCRIPTION
①	5	OVEN, DOUBLE STACK	VULCAN	40x31x70	GAS/ELEC EQUIPMENT
②	2	GRIDDLE	VULCAN	72x31½x15½	ELECTRIC EQUIPMENT
③	1	SKILLET	CLEVELAND	48x33½x42	ELECTRIC EQUIPMENT

(E) FIRE EXTINGUISHER (FE) INFORMATION

SYMBOL	TAG CERT. NO.	TYPE	MODEL NO.	UL REF#	DATE LAST INSPECTED	SERVE	DISTANCE
FE–1	EE–27019	A–B–C	AMEREX B260	E–73402555 (DRY CHEM)	07/31/24	KITCHEN	14 FEET
FE–2	EE–27019	K	KITCHEN ONE	AB–097344 (WET CHEM)	07/31/24	KITCHEN	14 FEET
FE–3	EE–27019	A–B–C	AMEREX B260	E–73402555 (DRY CHEM)	07/31/24	DINING	N/A
FE–4	EE–27019	A–B–C	AMEREX B260	E–73402555 (DRY CHEM)	07/31/24	DINING	N/A



1 FIRE SUPPRESSION ENLARGED FLOOR PLAN—DEMOLITION
SCALE: 1/4" = 1'–0"

NORTH

GENERAL NOTES

1. BACKGROUND FOR THIS SHEET IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR CDCR REPRESENTATIVE IF (E) FIELD CONDITIONS DO NOT MATCH THE DRAWINGS.
2. CONTRACTOR SHALL VISIT SITE DURING THE PRE BID CONFERENCE TO BE SCHEDULE BY THE STATE TO DETERMINE ANY DISCREPANCIES OR CONDITIONS THAT MAY EFFECT HIS BID.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.
4. SEE ELECTRICAL, FIRE ALARM, MECHANICAL, AND PLUMBING PLANS FOR DEMOLITION OF KITCHEN HOODS AND ASSOCIATED COMPONENTS AND SYSTEMS.

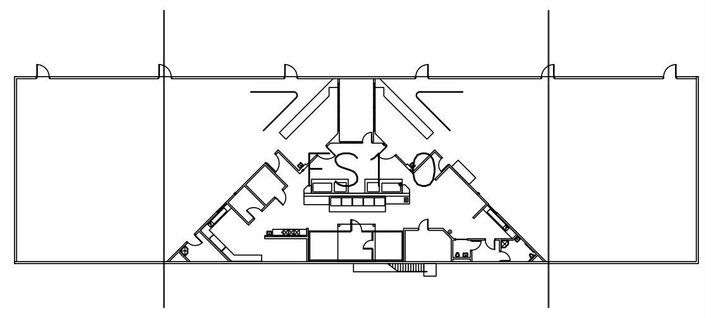
KEYNOTES

① (E)FIRE EXTINGUISHER IN LOCKABLE RECESSED WALL CABINET TO REMAIN AND BE REUSED. SEE FIRE EXTINGUISHER SCHEDULE FOR ADDITIONAL INFORMATION.

② (E)FIRE EXTINGUISHER ON WALL IN LOCKABLE OFFICE WITH STAFF SUPERVISION TO REMAIN AND BE REUSED. SEE FIRE EXTINGUISHER SCHEDULE FOR ADDITIONAL INFORMATION.

③ (E)KITCHEN COOKING EQUIPMENT – SEE SCHEDULE. (E)KITCHEN EQUIPMENT SHALL BE PROTECTED. CONTACT PLANT OPERATIONS FOR REMOVAL/RE-LOCATION AS NECESSARY, TYPICAL.

KEY PLAN



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No. M31782
Exp. 09–30–2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

FIRE SUPPRESSION ENLARGED FLOOR PLAN-DEMOLITION
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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DATE: SEPTEMBER 20, 2024
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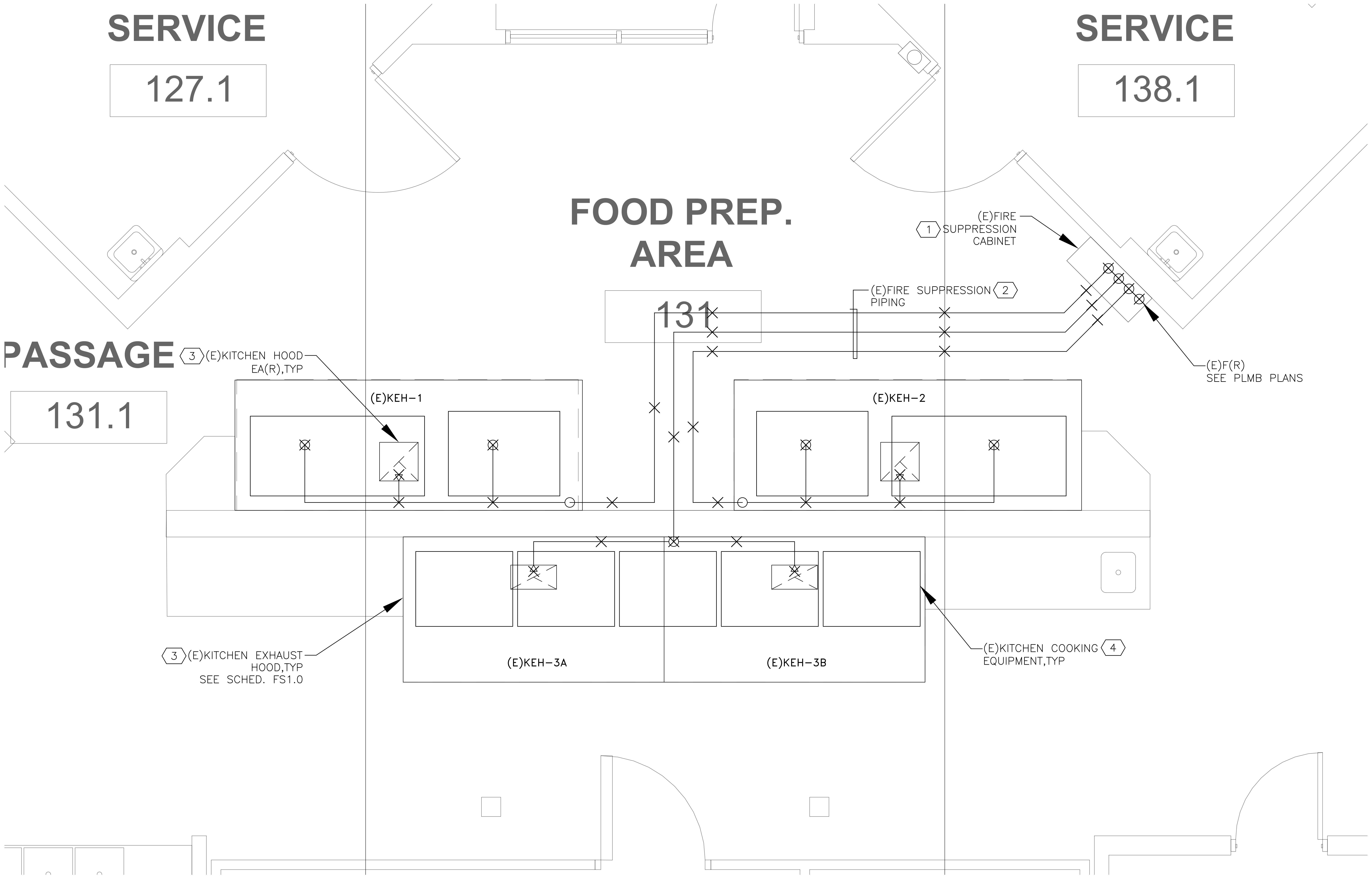
OF # SHEETS V3


SERVICE
127.1
SERVICE
138.1
FOOD PREP. AREA
131
PASSAGE
131.1
1 (E)FIRE SUPPRESSION CABINET
(E)FIRE SUPPRESSION 2 PIPING
(E)F(R) SEE PLMB PLANS
3 (E)KITCHEN HOOD EA(R),TYP
(E)KEH-1
(E)KEH-2
(E)KEH-3A
(E)KEH-3B
3 (E)KITCHEN EXHAUST HOOD,TYP SEE SCHED. FS1.0
(E)KITCHEN COOKING 4 EQUIPMENT,TYP

1 FIRE SUPPRESSION ENLARGED FLOOR PLAN-DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.

KEYNOTES

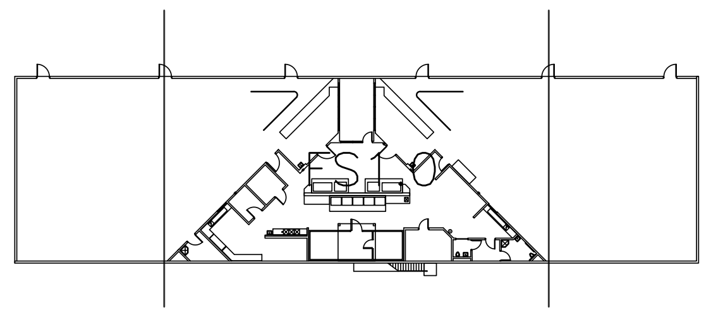
① DISCONNECT AND REMOVE WATER MIST FIRE SUPPRESSION SYSTEM INSIDE CONTROL PANEL INCLUDING ALL PIPING, COMPONENTS, AND WASH SYSTEM. SEE FIRE ALARM PLANS FOR DEMOLITION OF ASSOCIATED ELECTRICAL POWER AND FIRE ALARM INTERFACE. CONTROL PANEL TO REMAIN. SEE P1.1 AND P1.3 FOR MORE INFORMATION.

② DISCONNECT AND REMOVE KITCHEN HOOD WATER MIST FIRE SUPPRESSION SYSTEM INCLUDING ALL PIPING, NOZZLES, FITTINGS, ETC.,FROM CONTROL PANEL TO AND WITHIN ALL (E)KITCHEN HOODS.

③ (E)KITCHEN EXHAUST HOODS AND EXHAUST AIR DUCTWORK TO BE REMOVED. SEE M1.1, M1.3, AND M1.5 FOR MORE INFORMATION.

④ (E)KITCHEN COOKING EQUIPMENT. SEE FS1.0 FOR EQUIPMENT SCHEDULE.

KEY PLAN



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SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
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FIRE SUPPRESSION ENLARGED FLOOR PLAN-DEMOLITION
FACILITY III A KITCHEN REPAIRS

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SHEET NUMBER
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FIRE SUPPRESSION SYSTEM GENERAL NOTES

KITCHEN FIRE SUPPRESSION SYSTEM IS ON A "DEFERRED SUBMITTAL", (A SEPARATE SUBMITTAL SET OF DESIGN DRAWINGS FOR REVIEW AND APPROVAL) SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET FS0.1.

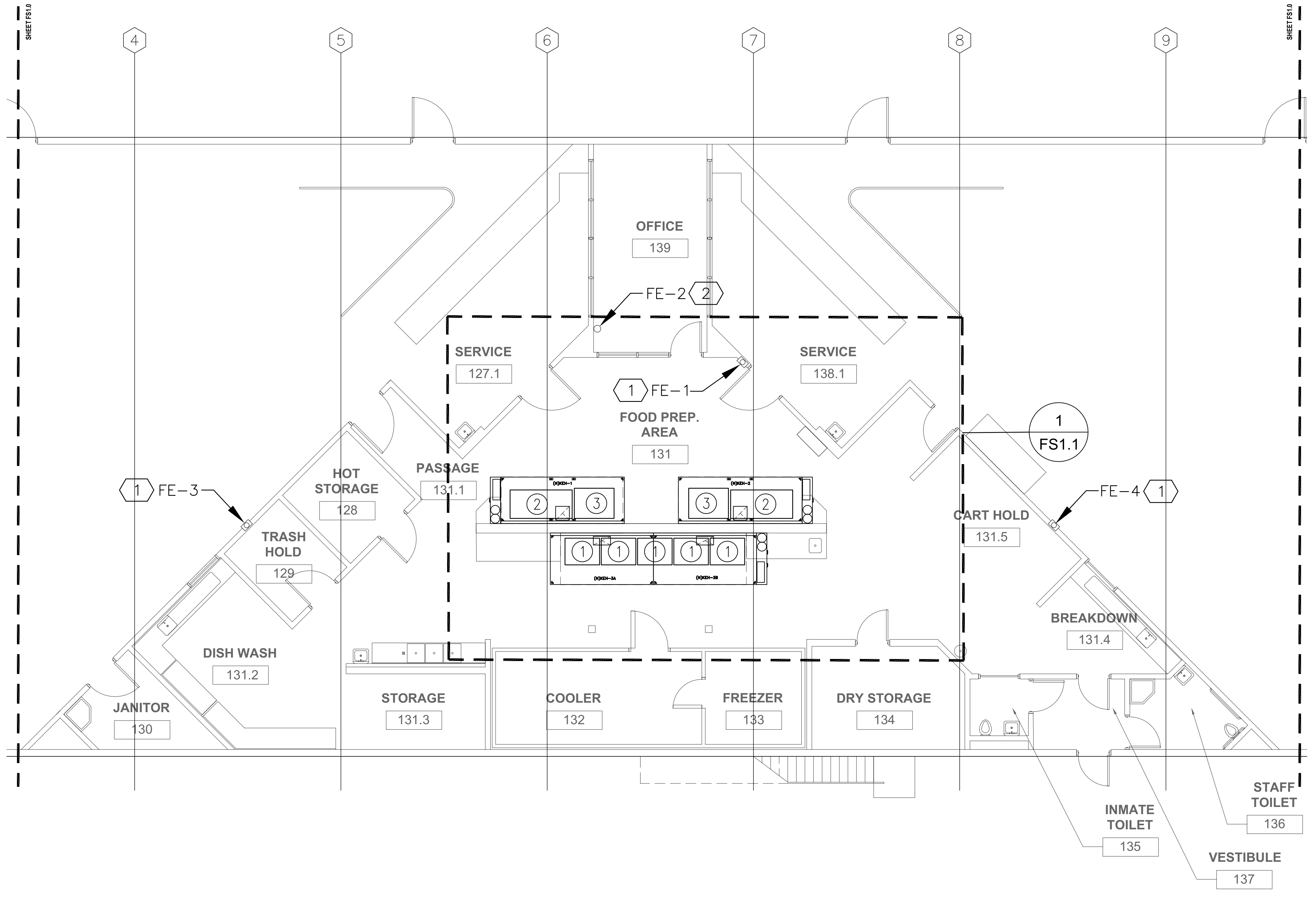
1. SUBMITTALS, SUBMIT ONE MANUAL OF MANUFACTURERS PRODUCT DATA. SUBMIT ONE SET OF PIPING DESIGN DRAWINGS. SUBMITTALS SHALL BE PER THE OFFICE OF STATE FIRE MARSHALL PLAN REVIEW SUBMITTAL INSTRUCTION FOR ELECTRONIC SUBMITTALS.
2. THE SYSTEM SHALL BE AN AUTOMATIC FIRE SUPPRESSION SYSTEM USING A WET CHEMICAL AGENT FOR COOKING GREASE RELATED FIRES.
3. THE SYSTEM SHALL BE CAPABLE OF SUPPRESSING FIRES IN THE AREAS ASSOCIATED WITH VENTILATING EQUIPMENT INCLUDING HOODS, DUCTS, PLENUMS, AND FILTERS AS WELL AS AUXILIARY GREASE EXTRACTION EQUIPMENT.
4. THE SYSTEM SHALL BE CAPABLE OF SUPPRESSING FIRES IN AREAS ASSOCIATED WITH COOKING EQUIPMENT SUCH AS FRYERS, GRIDDLES AND RANGE TOPS.
5. THE SYSTEM SHALL BE ENGINEERED TYPE HAVING MINIMUM AND MAXIMUM GUIDELINES ESTABLISHED BY THE MANUFACTURER AND LISTED BY UNDERWRITERS LABORATORIES UL/ULC.
6. THE SYSTEM SHALL BE INSTALLED AND SERVICED BY PERSONNEL APPROPRIATELY LICENSED AND TRAINED BY THE MANUFACTURER.
7. THE R-102 FIRE SUPPRESSION SYSTEM SHALL BE MANUFACTURED BY A COMPANY WITH AT LEAST FOUR YEARS EXPERIENCE IN THE DESIGN AND MANUFACTURE OF PRE-ENGINEERED FIRE SUPPRESSION SYSTEMS. THE MANUFACTURER SHALL BE ISO 9001 REGISTERED.
8. THE R-102 FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED, INSTALLED, INSPECTED, MAINTAINED, AND RECHARGED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED INSTRUCTION MANUAL.
9. TRAINING SHALL BE CONDUCTED BY REPRESENTATIVES OF THE MANUFACTURER.
10. AN ANSUL R-102 FIRE SUPPRESSION SYSTEM SHALL BE FURNISHED. THE SYSTEM SHALL BE CAPABLE OF PROTECTION ALL HAZARD AREAS ASSOCIATED WITH COOKING EQUIPMENT.

(E) FIRE EXTINGUISHER (FE) INFORMATION

SYMBOL	TAG CERT. NO.	TYPE	MODEL NO.	UL REF#	DATE LAST INSPECTED	SERVE	DISTANCE
FE-1	EE-27019	A-B-C	AMEREX B260	E-73402555 (DRY CHEM)	01/09/24	KITCHEN	14 FEET
FE-2	EE-27019	K	KITCHEN ONE	AB-097344 (WET CHEM)	01/31/24	KITCHEN	14 FEET
FE-3	EE-27019	A-B-C	AMEREX B260	E-73402555 (DRY CHEM)	01/09/24	DINING	N/A
FE-4	EE-27019	A-B-C	AMEREX B260	E-73402555 (DRY CHEM)	01/09/24	DINING	N/A

(E) COOKING EQUIPMENT INFORMATION

ITEM NUMBER	QTY	DESCRIPTION	MAKE/MODEL	DIMS: LxWxH IN.	DESCRIPTION
①	5	OVEN, DOUBLE STACK	VULCAN	40x31x70	GAS/ELEC EQUIPMENT
②	2	GRIDDLE	VULCAN	72x31½x15½	ELECTRIC EQUIPMENT
③	1	SKILLET	CLEVELAND	48x33½x42	ELECTRIC EQUIPMENT



1 FIRE SUPPRESSION ENLARGED FLOOR PLAN-NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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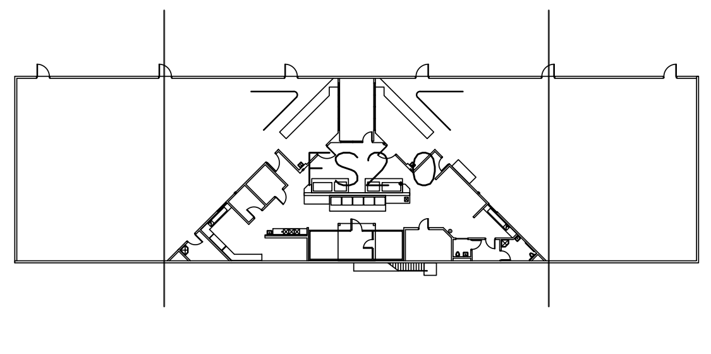
2. CONTRACTOR SHALL VISIT SITE DURING THE PRE BID CONFERENCE TO BE SCHEDULE BY THE STATE TO DETERMINE ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON DRAWINGS THAT MAY EFFECT HIS BID.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF REGARDING ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACE AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS HEREINAFTER SPECIFIED.
4. SEE ELECTRICAL, FIRE ALARM, MECHANICAL, AND PLUMBING PLANS FOR DEMOLITION OF KITCHEN HOODS AND ASSOCIATED COMPONENTS AND SYSTEMS.

KEYNOTES

1. (E)TYPE-ABC FIRE EXTINGUISHER IN LOCKABLE RECESSED WALL CABINET TO REMAIN AND BE REUSED. SEE FIRE EXTINGUISHER SCHEDULE FOR ADDITIONAL INFORMATION. MOUNT SIGN AT THIS LOCATION PER DETAIL 9/FS3.0.
2. (E)TYPE-K FIRE EXTINGUISHER ON WALL IN LOCKABLE OFFICE WITH STAFF SUPERVISION TO REMAIN AND BE REUSED. SEE FIRE EXTINGUISHER SCHEDULE FOR ADDITIONAL INFORMATION. MOUNT SIGNS AT THIS LOCATION PER DETAIL 8/FS3.0 AND 9/FS3.0.

KEY PLAN



BUILDING 307A NORTH

CDCR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
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06/29/25
24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
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STEPHEN R. ZAGYI
No. M31782
Exp. 09-30-2025
MECHANICAL

STEPHEN R. ZAGYI
SENIOR MECHANICAL ENGINEER

STEVEN BAYANATI
SUPERVISING MECHANICAL ENGINEER

FIRE SUPPRESSION ENLARGED FLOOR PLAN-NEW
FACILITY III A KITCHEN REPAIRS

COR
24-014

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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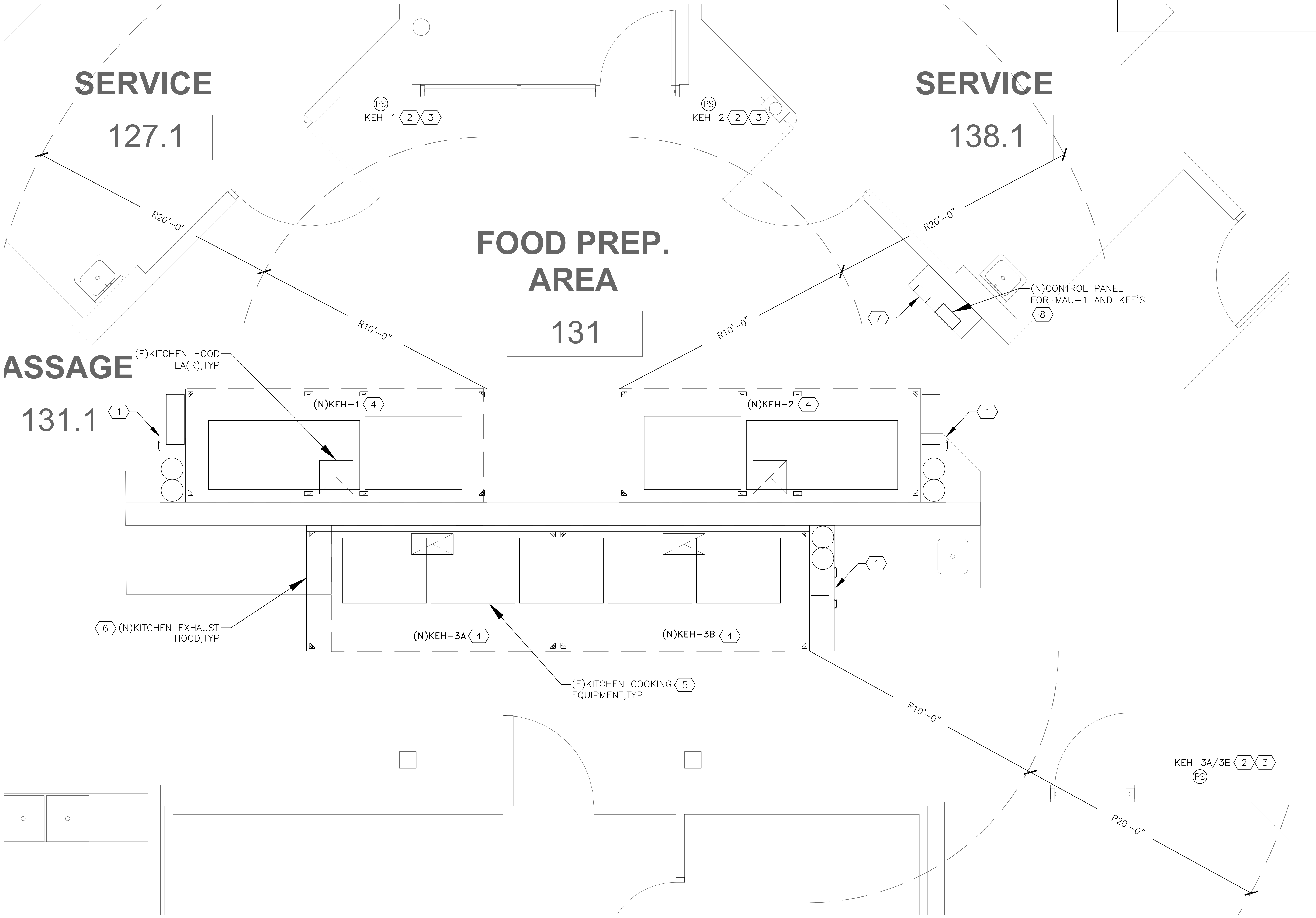
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
FS2.0
OF # SHEETS V3



1 FIRE SUPPRESSION ENLARGED FLOOR PLAN—DEMOLITION

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

NORTH

KEYNOTES CONT.

8 (N) MAU AND KEF'S CONTROL PANEL ON (E)FS CABINET. SEE M2.1 FOR INSTALL. ROUTE FS SIGNAL CONDUIT/WIRE FROM EACH KITCHEN HOOD FIRE SUPPRESSION SYSTEM TO (N) CONTROL PANEL.

GENERAL NOTES

1. BACKGROUND FOR THIS SHEET IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR CDCR REPRESENTATIVE IF (E) FIELD CONDITIONS DO NOT MATCH THE DRAWINGS.
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4. SEE ELECTRICAL, FIRE ALARM, MECHANICAL, AND PLUMBING PLANS FOR INSTALLATION OF KITCHEN HOODS AND ASSOCIATED COMPONENTS AND SYSTEMS.

KEYNOTES

1 WET CHEMICAL TANK/CABINET SYSTEM & RELEASE UNIT MOUNTED AT THE SIDE OF KITCHEN HOOD. SEE DELEGATED DESIGN SUBMITTAL REQUIREMENTS ON FS0.1 AND TYPICAL FIRE SUPPRESSION PIPING DIAGRAM ON FS3.0.

2 PROVIDE KEY—ACTIVATED MANUAL PULL STATIONS. PATHWAY FROM HOOD TO ROOM EXIT DOOR, MIN 10 FT TO 20 FT MAX FROM HOOD. SEE DETAIL 2/FS3.0.

3 PROVIDE SIGNS TO IDENTIFY PULL STATIONS AND CORRESPONDING HOOD NUMBER. SEE DETAIL 3/FS3.0. AND SPEC 23 05 53 PART 2.3 FOR MORE DETAILED IDENTIFICATION INFORMATION.

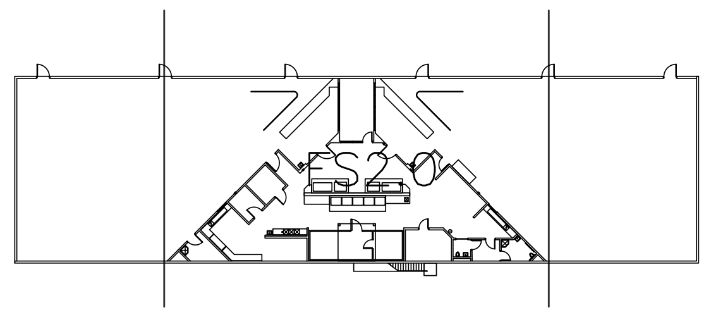
4 PROVIDE SIGNS TO IDENTIFY HOOD NUMBER ON CORRESPONDING HOOD. SEE SPEC 23 05 53 PART 2.3 FOR MORE DETAILED IDENTIFICATION INFORMATION.

5 (E)KITCHEN COOKING EQUIPMENT, SHALL BE LOCATED SO THAT TTHE (N)KITCHEN HOODS OVERHANG THE PERIMETER OF THE EQUIPMENT BY A MINIMUM OF 1'-0". THE LOCATION OF THE EQUIPMENT SHALL BE PERMANENTLY MARKED ON THE FLOOR FOR RE-INSTALLATION IF MOVED FOR CLEANING/MAINTENANCE.

6 SEE M0.6 AND M0.7 FOR KETCHEN HOOD SCHEDULE AND CONFIGURATIONS. SEE M2.1 FOR INSTALLATION.

7 (N)GAS SOV RELAY CONTROL PANEL WITH MANUAL RESET AND MANUAL OFF BUTTON ON (E)FS CABINET. SEE P2.1 AND ELECTRICAL/SIGNAL PLANSFOR INSTALL.

KEY PLAN



BUILDING 307A

NORTH

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MECHANICAL

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FIRE SUPPRESSION ENLARGED FLOOR PLAN-DEMOLITION
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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COR
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CAD FILE:
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REVISIONS		
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SHEET NUMBER
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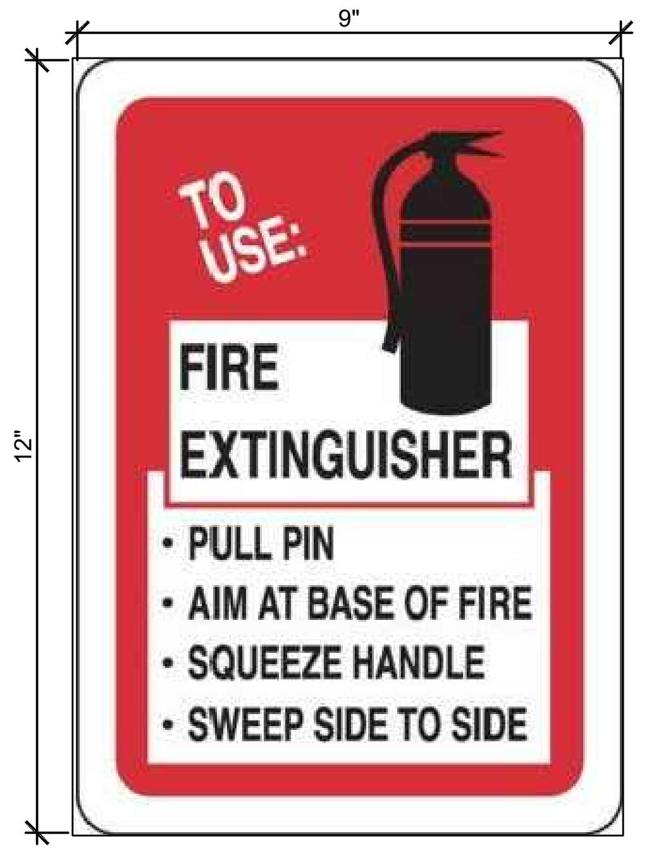
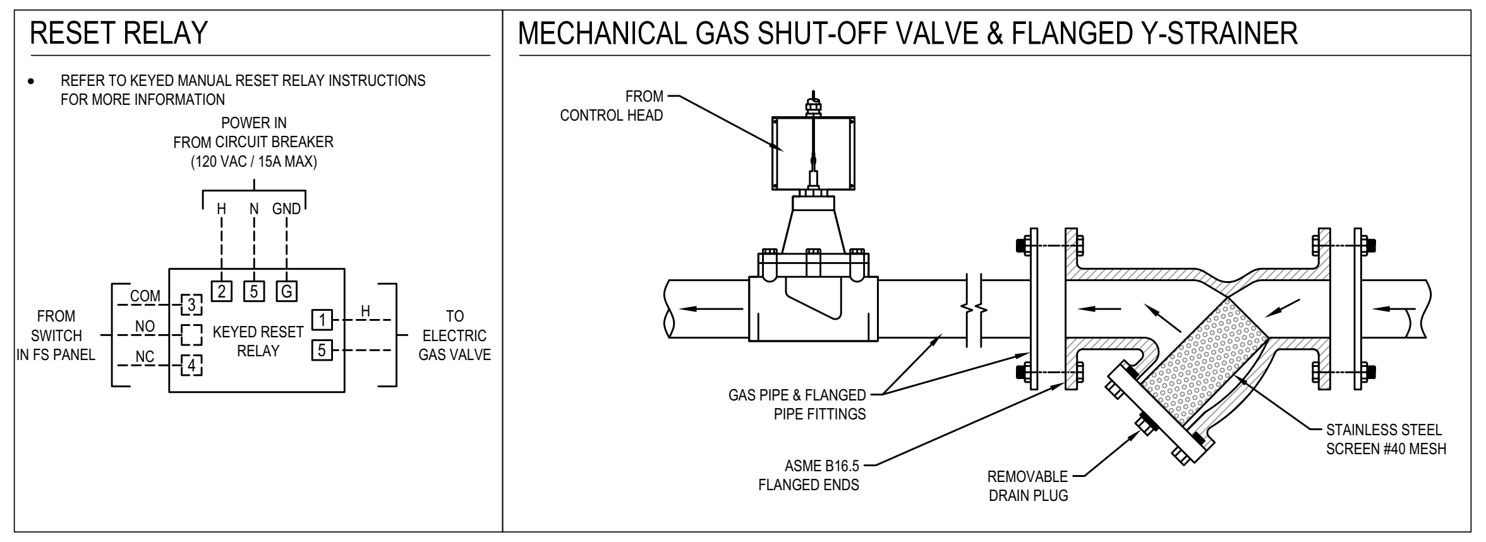


NOTES:
1. LOCATE EACH SIGN AT TYPE K FIRE EXTINGUISHER LOCATION.
2. 1/2" MIN TEXT CHARACTER HEIGHT.
3. TEXT CHARACTERS AND SYMBOLS CONTRAST WITH THE BACKGROUND/NON-GLARE SURFACE.
4. SIGN SHALL HAVE ROUNDED CORNERS AND BEVELED EDGES.
5. MOUNT EACH SIGN AT 5'-0" AFF FROM TOP WITH SECURITY FASTENER AT EACH CORNER (4 TOTAL) PER SPECIFICATION 050555.

TYPICAL FIRE EXTINGUISHER USE SIGN | NTS | 9

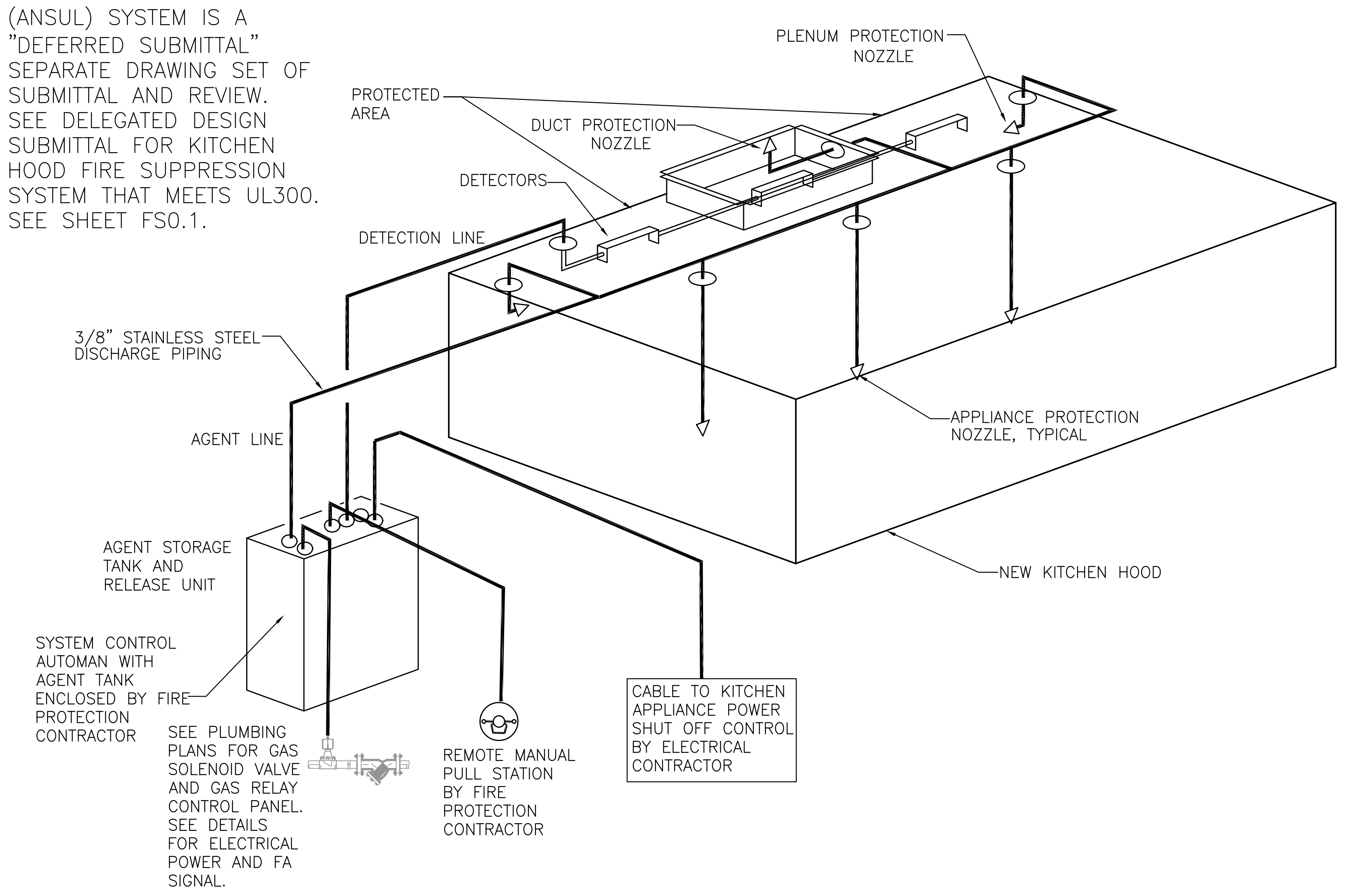

RESET RELAY
REFER TO KEYED MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION
POWER IN FROM CIRCUIT BREAKER (120 VAC / 15A MAX)
H
N
GND
COM
NO
NC
2
5
G
3
4
1
5
H
KEYED RESET RELAY
FROM SWITCH IN FS PANEL
TO ELECTRIC GAS VALVE
MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER
FROM CONTROL HEAD
GAS PIPE & FLANGED PIPE FITTINGS
ASME B16.5 FLANGED ENDS
REMOVABLE DRAIN PLUG
STAINLESS STEEL SCREEN #40 MESH

(SEE MEP DRAWINGS FOR LOCATION)

- GAS SHUT-OFF VALVE(S) AND STRAINERS TO BE SIZED AND INSTALLED BY DIVISION 22 (PLUMBING). SEE ELECTRICAL AND FIRE ALARM PLANS FOR POWER AND ALARM INTERFACE.
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

GAS SOV WITH MANUAL RESET | NTS | 4

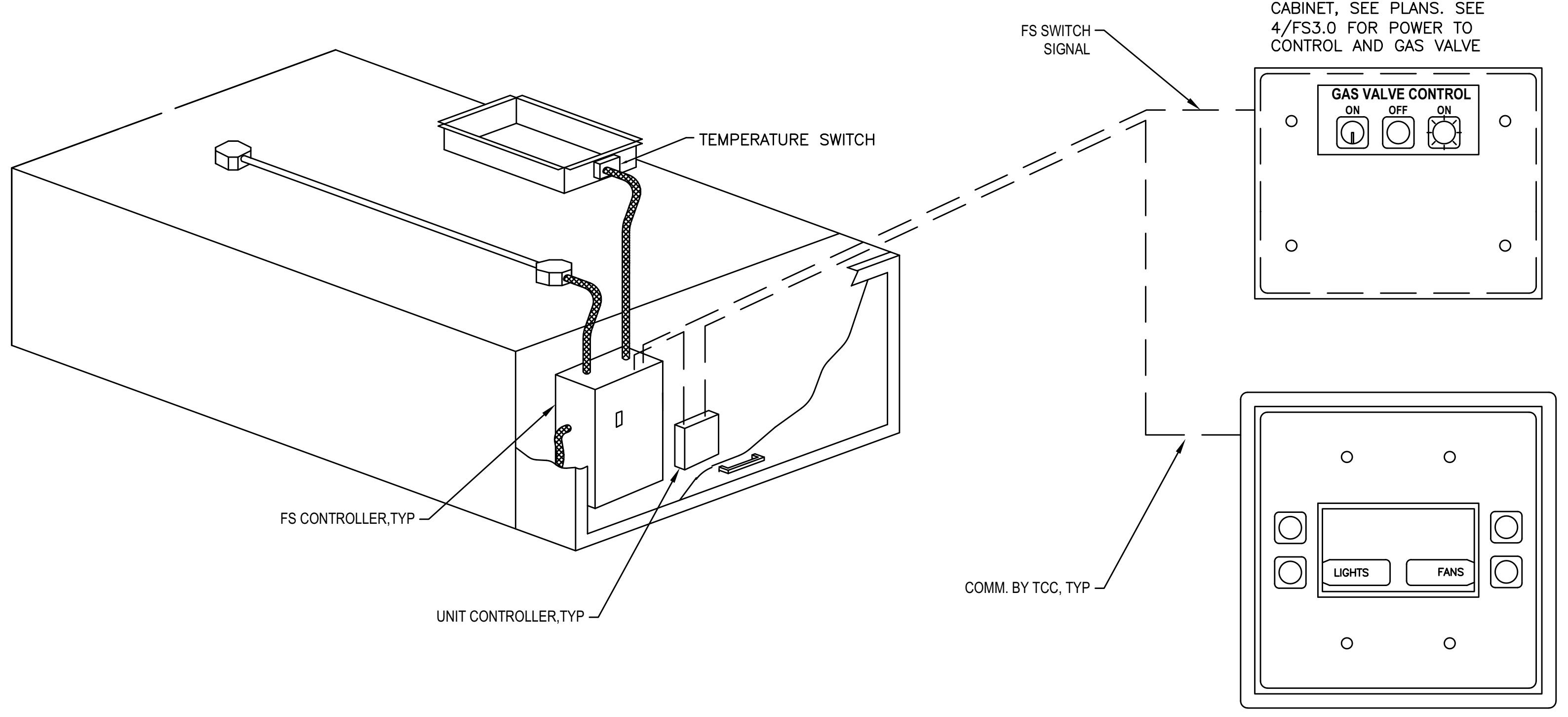
1. KITCHEN HOOD FIRE PROTECTION—WET CHEMICAL (ANSUL) SYSTEM IS A "DEFERRED SUBMITTAL" SEPARATE DRAWING SET OF SUBMITTAL AND REVIEW. SEE DELEGATED DESIGN SUBMITTAL FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM THAT MEETS UL300. SEE SHEET FS0.1.


PLENUM PROTECTION NOZZLE
PROTECTED AREA
DUCT PROTECTION NOZZLE
DETECTORS
DETECTION LINE
3/8" STAINLESS STEEL DISCHARGE PIPING
AGENT LINE
APPLIANCE PROTECTION NOZZLE, TYPICAL
AGENT STORAGE TANK AND RELEASE UNIT
NEW KITCHEN HOOD
SYSTEM CONTROL AUTOMAN WITH AGENT TANK ENCLOSED BY FIRE PROTECTION CONTRACTOR
SEE PLUMBING PLANS FOR GAS SOLENOID VALVE AND GAS RELAY CONTROL PANEL. SEE DETAILS FOR ELECTRICAL POWER AND FA SIGNAL.
REMOTE MANUAL PULL STATION BY FIRE PROTECTION CONTRACTOR
CABLE TO KITCHEN APPLIANCE POWER SHUT OFF CONTROL BY ELECTRICAL CONTRACTOR

TYPICAL KITCHEN HOOD WET CHEMICAL FIRE SUPPRESSION SYSTEM | NTS | 1

NOTES:
1. LOCATE EACH SIGN AT TYPE K FIRE EXTINGUISHER LOCATION.
2. 1/2" MIN TEXT CHARACTER HEIGHT.
3. TEXT CHARACTERS AND SYMBOLS CONTRAST WITH THE BACKGROUND/NON-GLARE SURFACE.
4. SIGN SHALL HAVE ROUNDED CORNERS AND BEVELED EDGES.
5. MOUNT EACH SIGN AT 5'-0" AFF FROM TOP WITH SECURITY FASTENER AT EACH CORNER (4 TOTAL) PER SPECIFICATION 050555.

TYPE-K FIRE EXTINGUISHER SIGN | NTS | 8

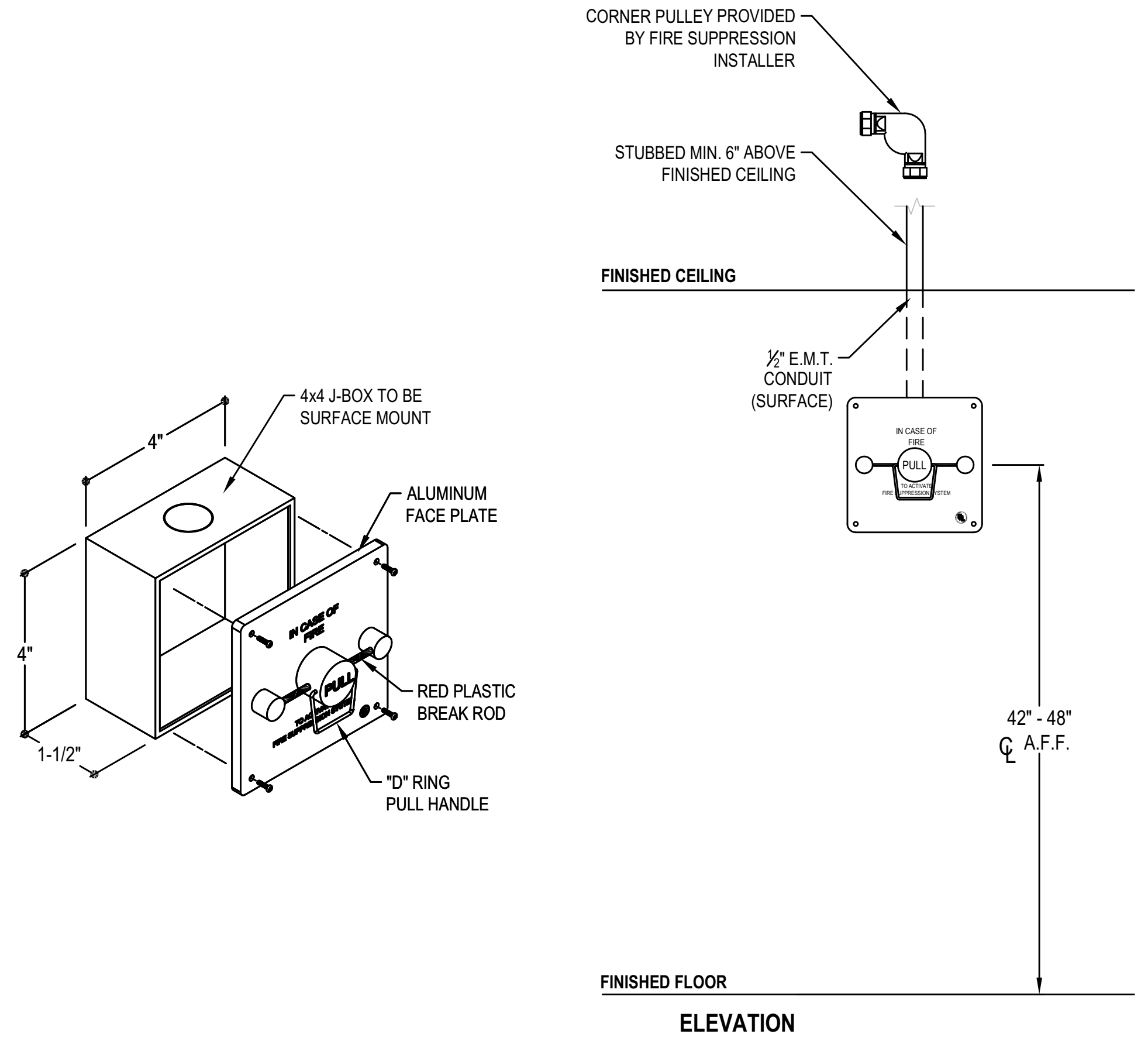


GAS VALVE CONTROL RELAY PANEL MOUNTED ON (E)FS CABINET, SEE PLANS. SEE 4/FS3.0 FOR POWER TO CONTROL AND GAS VALVE

TOUCH-SCREEN USER INTERFACE MOUNTED ON (E)FS CABINET, SEE PLANS.

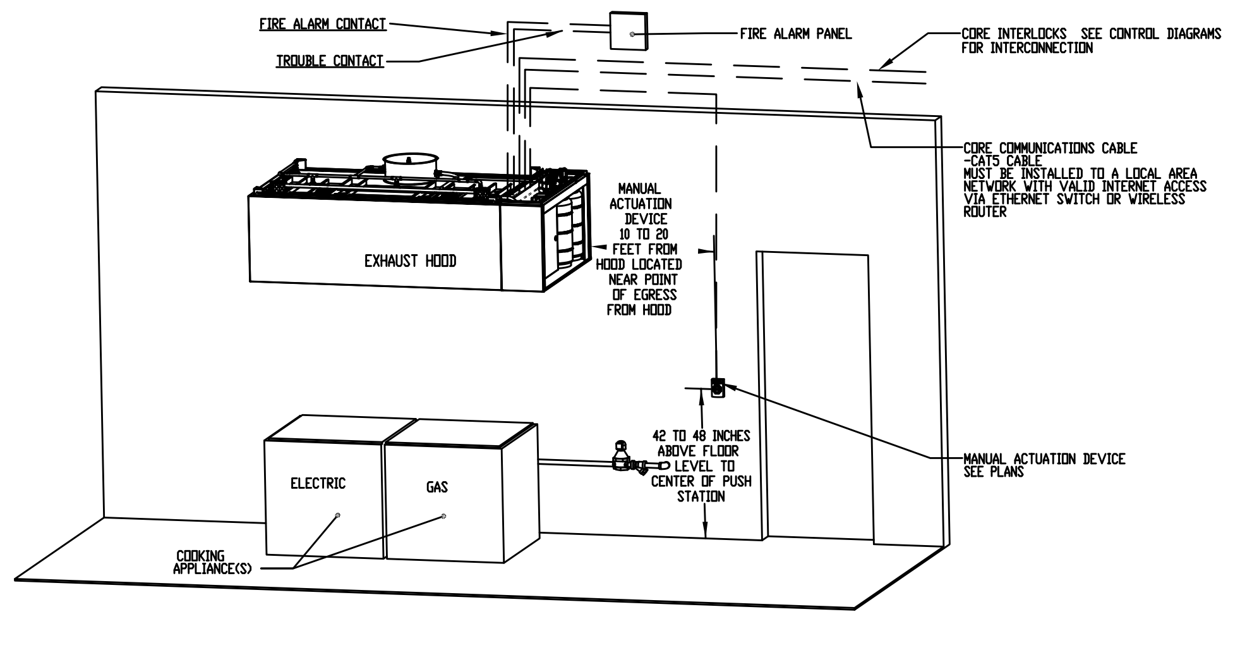
NOTE: ONE TOUCH-SCREEN PANEL SHALL BE USED FOR ALL KITCHEN EXHAUST HOODS.

KITCHEN FANS/KITCHEN HOODS LIGHTS CONTROL SYSTEM INTERFACE | NTS | 5


4x4 J-BOX TO BE SURFACE MOUNT
4"
4"
1-1/2"
ALUMINUM FACE PLATE
IN CASE OF FIRE
PULL
TO ACTIVATE FIRE SUPPRESSION SYSTEM
RED PLASTIC BREAK ROD
"D" RING PULL HANDLE
CORNER PULLEY PROVIDED BY FIRE SUPPRESSION INSTALLER
STUBBED MIN. 6" ABOVE FINISHED CEILING
FINISHED CEILING
½" E.M.T. CONDUIT (SURFACE)
42" - 48" ℄ A.F.F.
FINISHED FLOOR
ELEVATION

TYPICAL PULL STATION | NTS | 2

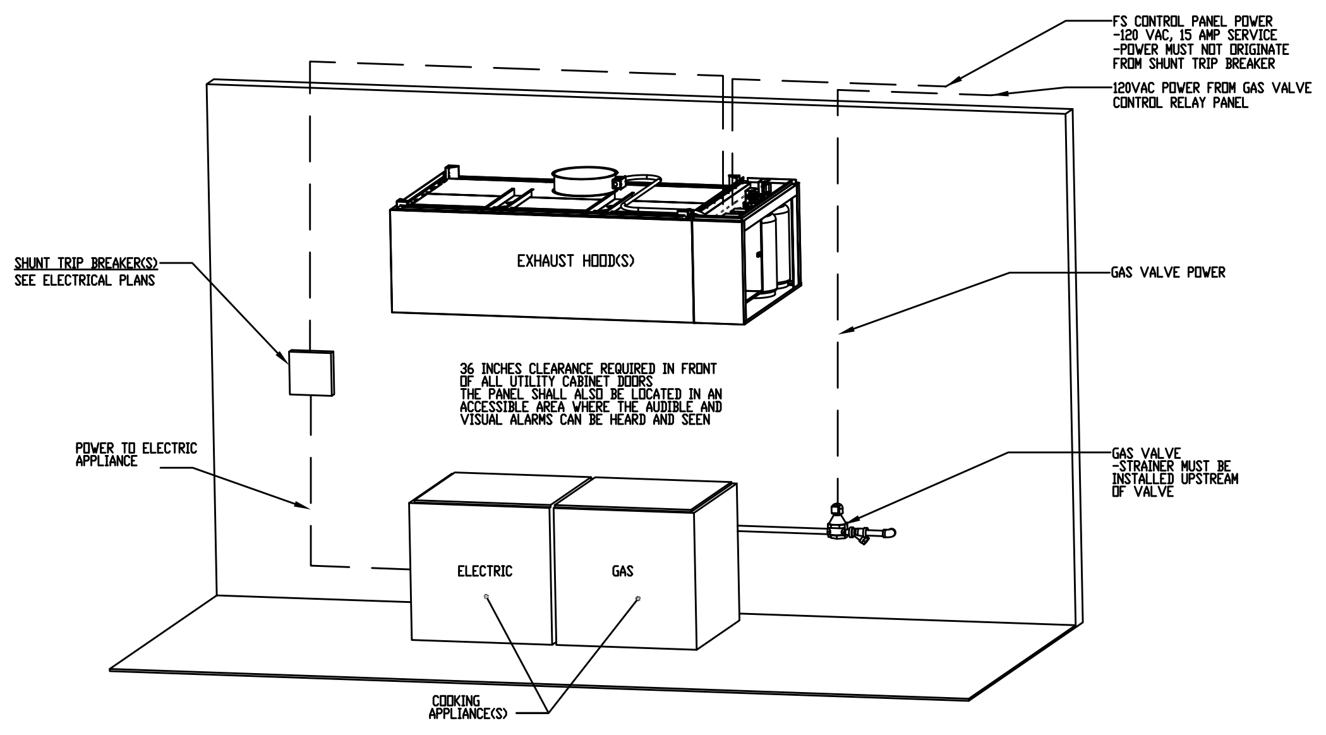
ALARM REQUIREMENT		
ITEM	VOLTAGE	COMMENTS
REMOTE FIRESTAT SENSOR(S)	24 VDC	
FIRE ALARM CONTACT	50V MAX (AC/DC)	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM
CORE INTERLOCK(S)	RS-485 COMMUNICATIONS SIGNAL	
TROUBLE CONTACT	MAX 120 VAC	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
COMMUNICATIONS CABLE	SIGNAL	TYPICAL CONNECTION CAT5 CABLE TO UNIT CONTROLLERS AND CENTRAL BMS.


FIRE ALARM CONTACT
TROUBLE CONTACT
FIRE ALARM PANEL
CORE INTERLOCKS SEE CONTROL DIAGRAMS FOR INTERCONNECTION
CORE COMMUNICATIONS CABLE -CAT5 CABLE MUST BE INSTALLED TO A LOCAL AREA NETWORK WITH VALID INTERNET ACCESS VIA ETHERNET SWITCH OR WIRELESS ROUTER
EXHAUST HOOD
MANUAL ACTUATION DEVICE 10 TO 20 FEET FROM HOOD LOCATED NEAR POINT OF EGRESS FROM HOOD
42 TO 48 INCHES ABOVE FLOOR LEVEL TO CENTER OF PUSH STATION
MANUAL ACTUATION DEVICE SEE PLANS
ELECTRIC
GAS
COOKING APPLIANCE(S)

ALARM NOTES:
1. WIRE REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

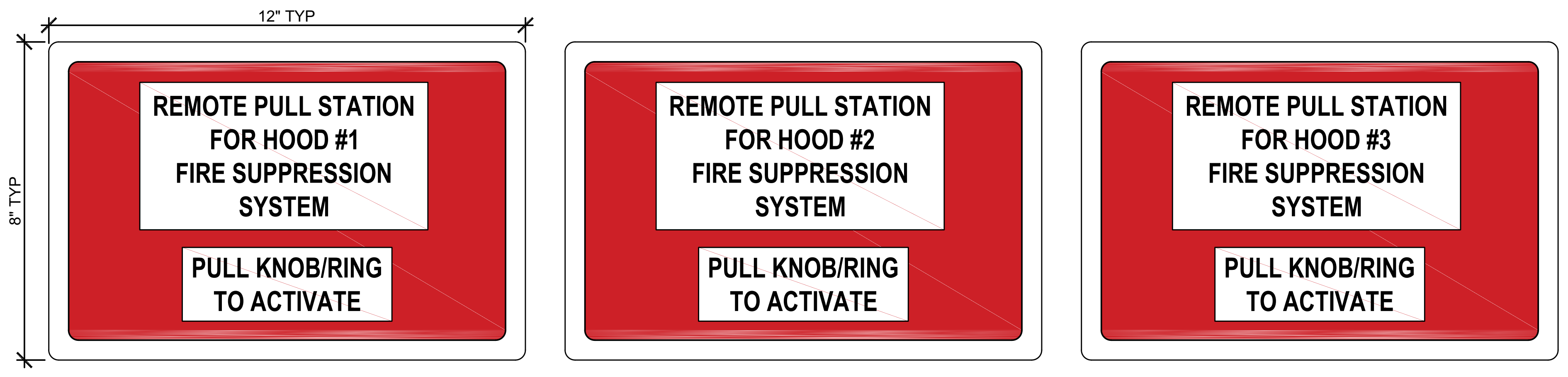
TYPICAL FIRE SUPPRESSION SYSTEM ALARM DETAIL | NTS | 7

ELECTRICAL REQUIREMENT		
ITEM	VOLTAGE	COMMENTS
SHUNT TRIP BREAKER	120 VAC	
CONTROL PANEL POWER	120 VAC	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
GAS VALVE	120 VAC	


FS CONTROL PANEL POWER -120 VAC, 15 AMP SERVICE -POWER MUST NOT ORIGINATE FROM SHUNT TRIP BREAKER
120VAC POWER FROM GAS VALVE CONTROL RELAY PANEL
EXHAUST HOOD(S)
SHUNT TRIP BREAKER(S) SEE ELECTRICAL PLANS
GAS VALVE POWER
36 INCHES CLEARANCE REQUIRED IN FRONT OF ALL UTILITY CABINET DOORS THE PANEL SHALL ALSO BE LOCATED IN AN ACCESSIBLE AREA WHERE THE AUDIBLE AND VISUAL ALARMS CAN BE HEARD AND SEEN
POWER TO ELECTRIC APPLIANCE
GAS VALVE -STRAINER MUST BE INSTALLED UPSTREAM OF VALVE
ELECTRIC
GAS
COOKING APPLIANCE(S)

ELECTRICAL NOTES:
1. WIRE MAIN CONTROL PANEL
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE-SEE GAS CONTROL RELAY PANEL DETAIL AND PLANS

TYPICAL FIRE SUPPRESSION SYSTEM ELECTRICAL DETAIL | NTS | 6


12" TYP
8" TYP
REMOTE PULL STATION FOR HOOD #1 FIRE SUPPRESSION SYSTEM
PULL KNOB/RING TO ACTIVATE
REMOTE PULL STATION FOR HOOD #2 FIRE SUPPRESSION SYSTEM
PULL KNOB/RING TO ACTIVATE
REMOTE PULL STATION FOR HOOD #3 FIRE SUPPRESSION SYSTEM
PULL KNOB/RING TO ACTIVATE

NOTES:
1. LOCATE EACH SIGN ACCORDING TO PULL STATION/HOOD # LOCATIONS.
2. 1/2" MIN TEXT CHARACTER HEIGHT.
3. TEXT CHARACTERS AND SYMBOLS CONTRAST WITH THE BACKGROUND/NON-GLARE SURFACE.
4. SIGN SHALL HAVE ROUNDED CORNERS AND BEVELED EDGES.
5. MOUNT EACH SIGN AT 5'-0" AFF FROM TOP WITH SECURITY FASTENER AT EACH CORNER (4 TOTAL) PER SPECIFICATION 050555.

TYPICAL PULL STATION SIGNAGE | NTS | 3

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FIRE SUPPRESSION PIPING DIAGRAM
FACILITY III A KITCHEN REPAIRS
COR
24-014
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212
CAD FILE: P:\DESIGN SERVICES\COR\DESIGN\24-014 FACILITY III A KITCHEN REPAIRS\DRAWINGS\FS3.0 FS DETAILS.DWG

REVISIONS		
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OF # SHEETS V3

LIGHTING

CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
○ ◓	⊢○ ⊢◓		WALL/CEILING SCONCE LIGHTING FIXTURE SHADED FIXTURE EQUIPPED WITH 90 MIN BATTERY BACKUP
▭ ▭	▭ ▭		SURFACE MOUNTED LIGHTING FIXTURE SHADED FIXTURE EQUIPPED WITH 90 MIN BATTERY BACKUP
⧄ ⧄			RECESSED MOUNTED LIGHTING FICTURE SHADED FIXTURE EQUIPPED WITH 90 MIN BATTERY BACKUP
⊢○⊣ ⊢●⊣	⊢○⊣ ⊢●⊣		STRIP LIGHTING FIXTURE SHADED FIXTURE EQUIPPED WITH 90 MIN BATTERY BACKUP
		●☼	POLE MOUNTED AREA LIGHT
⊗ ⊗	⊗ ⊗		ILLUMINATED EXIT SIGN WITH 90 MIN BATTERY BACKUP
	◪		EMERGENCY LIGHTING UNIT (BATTERY POWERED FOR 90 MIN.)
⟨A⟩			LIGHTING FIXTURE DESIGNATOR
	▭ LCP		LIGHTING CONTROL PANEL, +5'-6" AFF TO THE TOP OF THE PANEL U.O.N.
	⊢(PC)		PHOTOCELL SWITCH, ORIENT NORTH
☐ 1b/P EM			1: ELECTRICAL BRANCH CIRCUIT NUMBER b: LIGHT SWITCH DESIGNATOR P: ELECTRICAL PANEL DESIGNATOR EM: EMERGENCY LIGHTING FIXTURE

SIGNAL AND COMMUNICATIONS

CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
	TTB		TELEPHONE TERMINAL BOARD, 3/4"X4'X8' PLYWOOD, FIRE RETARDANT BACKBOARD
	▭ TTC		TELEPHONE TERMINAL CABINET, +5'-6" AFF TO THE TOP OF THE PANEL U.O.N.
	▭ DTC		DATA TERMINAL CABINET, +5'-6" AFF TO THE TOP OF THE PANEL U.O.N.
	◁	▽	COMBINATION TEL/DATA OUTLET, +18"AFF UON (4" SQUARE, 2-1/4" DEEP METAL ELECTRICAL BOX WITH A DUPLEX REDUCTION PLASTER)
	◀	▼	TELEPHONE OUTLET, +18" U.O.N. (4" SQUARE, 2-1/4" DEEP METAL ELECTRICAL BOX WITH A DUPLEX REDUCTION PLASTER)
	◁	▽	DATA OUTLET, +18" U.O.N. (4" SQUARE, 2-1/4" DEEP METAL ELECTRICAL BOX WITH A DUPLEX REDUCTION PLASTER)
	FACP		FIRE ALARM CONTROL PANEL, +5'-6" AFF TO THE TOP OF THE PANEL, U.O.N.
	FAA		FIRE ALARM ANNUCIATOR PANEL, +66" AFF TO THE TOP OF THE PANEL, U.O.N.
⟨S⟩			SMOKE DETECTOR, P-PHOTOELECTRIC, I-IONIZATION, R-RELAY, G-GUARD
	⟨S⟩		SMOKE DETECTOR - PHOTOELECTRIC TYPE, DUCT MOUNTED
⟨I⟩			HEAT DETECTOR RATE OF RISE/FIXED TEMP.
⟨I⟩A			HEAT DETECTOR ABOVE ACCESSIBLE ATTIC, 190 DEGREE F FIXED
	F		MANUAL STATION-PULL STATION,+48" AFF UON K-KEY ACTIVATED
	CD		COMBINATION CHIME/STROBE, MAX. 96" AFF TO TOP OF LENS. MIN. 80" AFF TO BOTTOM OF LENS. CD-MIN. CANDELA RATING/SETTING. G-GUARD
	WP		FIRE ALARM, WEATHERPROOF HORN, MIN. 90" AFF TO TOP OF UNIT. AND FOR INDOOR HORN, 6" MIN. BELOW CEILING.
	CD		STROBE ONLY-WALL MOUNTED, MAX. 96" AFF TO TOP OF LENS. MIN. 80" AFF TO BOTTOM OF LENS. CD-MIN. CANDELA RATING/SETTING
	⊗		EXTERIOR MOUNTED RED ROTATING BEACON FOR FIRE ALARM ANNUNCIATION. TOP OF THE BEACON SHALL BE 24" ABOVE ROOF RIDGE. MOUNT BEACON ON THE EXTERIOR WALL AND EXTEND UP ABOVE ROOF RIDGE.
	(FS)		FLOW SWITCH
	(TS)		TAMPER SWITCH
	(DH)		DOOR HOLDER
	MM		MONITORING MODULE
	RM		RELAY MODULE
	TV		TELEVISION OUTLET, +18" AFF, U.O.N.
	▭ SCIC		SECURITY AND COMMUNICATIONS INTERFACE CABINET, +5'-6" AFF TO THE TOP OF THE PANEL U.O.N.
PAR			PERSONAL ALARM RECEIVER
	P◁		PERSONAL ALARM AUDIBLE, NOT TO EXCEED 96" AFF OR 6" FROM CEILING - WHICHEVER IS LOWER
	PD		PERSONAL ALARM VISUAL, NOT TO EXCEED 96" AFF OR 6" FROM CEILING-WHICHEVER IS LOWER
	PK		PERSONAL ALARM BEACON
	KS		PERSONAL ALARM SYSTEM RESET KEYSWITCH +56" U.O.N.
(S)			SPEAKER-FLUSH MOUNTED
S	⊢S		SPEAKER-SURFACE MOUNTED TWO DIRECTIONAL WHEN ARROWS ARE SHOWN

POWER

CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
⊘CLG	⊖	⊟	DUPLEX RECEPTACLE, +18" U.O.N.
⊘CLG	⊖	⊟	SINGLE RECEPTACLE, +18" U.O.N.
	⊖GFCI		DUPLEX RECEPTACLE GFCI TYPE, +46" U.O.N.
⊕CLG	⊕	⊞	DOUBLE DUPLEX RECEPTACLE, +18" U.O.N.
	◀		SPECIAL PURPOSE RECEPTACLE, +18" U.O.N. TYPE AS NOTED ON PLANS
	$		SINGLE POLE SWITCH, +46" U.O.N.
	$3		THREE WAY SWITCH, +46" U.O.N.
	$b		"b" DENOTES OUTLET CONTROLLED
	$K		KEY OPERATED SWITCH, +46" U.O.N.
	$M		MOTOR RATED SWITCH
	$F		FAN SWITCH, +46" U.O.N.
	ϕ		OCCUPANCY SENSOR, CEILING MOUNTED, HUBBELL OMNI DT500,WATTSTOPPER OR EQUAL.
	⊢(T)		THERMOSTAT OUTLET, +66" U.O.N.
(J)	⊢(J)	J	JUNCTION BOX
▨			POWER DISTRIBUTION SWITCHBOARD, +6'-6"(MAX) TO THE HIGHES CIRCUIT BREAKER HANDLE,U.O.N.
▬			PANELBOARD, +6'-6" (MAX) AFF TO THE HIGHEST CIRCUIT BREAKER HANDLE, U.O.N.
T			TRANSFORMER
▭ HH			HAND HOLE, 11"Hx17"Lx12"D, U.O.N.
▭ PB			PULLBOX, SIZE AS NOTED.
▭ MH			MANHOLE
●			WOODEN POWER POLE
A F B F C F D F			NON-FUSIBLE DISCONNECT SWITCH, +48" U.O.N., 3P U.O.N. A=30A, B=60A, C=100A, D=200A. "F" INDICATES FUSE
☒1			ENCLOSED COMBINATION STARTER & DISCONNECT, +48" U.O.N., NUMBER INDICATES NEMA SIZE, NEMA SIZE 1 U.O.N.
⧓			CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
CB			ENCLOSED CIRCUIT BREAKER
⊡			CONTROL STATION, +48" U.O.N. SEE SCHEMATIC DIAGRAM
○			MOTOR
○			MOTOR CONNECTION. DISCONNECT FURNISHED WITH MOTOR
SV			SOLENOID VALVE
⊙GW			GROUND ROD, 3/4" x 10'-0" GW NEXT TO SYMBOL INDICATES GROUND ROD IN PULLBOX (11"X17"X12")

RACEWAYS

———	CONDUIT, EXPOSED
- - - - -	CONDUIT, CONCEALED
——PVC——	CONDUIT, PVC IN SLAB OR UNDERGROUND
——OHE——	OVERHEAD CABLE (ELECTRICAL)
——OHT——	OVERHEAD CABLE (TELEPHONE)
∿∿	FLEXIBLE CONDUIT CONNECTION
—////——	CROSSLINES INDICATE NUMBER OF #12 WIRES CURVE LINE INDICATES GROUND WIRE. NO CROSSLINE INDICATES 3/4"C-2#12&1#12G UON
——1-TSP	NUMBER OF 16 AWG TWISTED SHIELDED PAIR CABLE
-------G-------●	CONNECTION TO GROUND BUS.
-------G-------	GROUNDING CONDUCTOR 30" BELOW GRADE, #4/0 U.O.N.
—A-1,3	HOMERUN TO PANEL A, CIRCUIT 1 AND 3
———○	CONDUIT TURN UP
———●	CONDUIT TURN DOWN
———⊐	CONDUIT STUB-OUT AND CAPPED
—⊣⊢—	CONDUIT SEAL (HAZARDOUS LOCATION)
----A---- ----B---- ----C---- ----D---- ----A---∃	TELEPHONE/DATA CONDUIT: A = 1" CONDUIT WITH PULLROPE ONLY B = 1-1/4" CONDUIT WITH PULLROPE ONLY C = 1-1/2" CONDUIT WITH PULLROPE ONLY D = 2" CONDUIT WITH PULLROPE ONLY 1"C TO BE STUB UP 6" ABOVE CEILING, CONCEALED IN WALLS UON

ELECTRICAL SYMBOLS - SINGLE LINE DIAGRAM

(M)	METER
(AM)	AMMETER
(VM)	VOLTMETER
(WM)	WATTMETER
(KWH)	KILOWATT HOUR METER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
3	CURRENT TRANSFORMER, QUANTITY INDICATED
3	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	POWER TRANSFORMER
⟨1⟩	FEEDER DESIGNATION SEE SCHEDULE OR ONE LINE DIAGRAM FOR SIZE
30A 3P	CIRCUIT BREAKER, 3 POLE U.O.N.
4 RV	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING U.O.N. RV=REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
—\—	SWITCH
—▭—	FUSE
—○∿○—	FUSED CUTOUT
(G)	GENERATOR
-----K-----	KEY INTERLOCKING
—|(—	POWER FACTOR CORRECTION CAPACITOR
—《》—	DRAW-OUT TYPE EQUIPMENT
—○ ○—	SURGE ARRESTER
—▷ ◁—	LIGHTNING ARRESTER
⏚	GROUND
△	DELTA CONNECTION
Y	WYE CONNECTION
—I—	ELECTRICAL INTERLOCKING OF EQUIPMENT
(PFR)	POWER FAILURE RELAY
VFD	VARIABLE FREQUENCY DRIVE
	SOLID STATE STARTER
GFP	GROUND FAULT PROTECTION

MODIFICATION WORK

(E)	EXISTING TO REMAIN
(N)	NEW
(ER)	EXISTING TO BE RELOCATED.
(R)	DEMO/REMOVE.
(RL)	RELOCATED.
⊕	INTERCEPTION POINT-EXISTING TO REMAIN TO NEW. SEE PLANS FOR WORK REQUIRED.

POWER WIRE COLOR CODE

SYSTEM	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
208Y/120V	BLACK	RED	BLUE	WHITE	GREEN
480Y/277V	BROWN	ORANGE	YELLOW	GRAY	GREEN
240/120V	BLACK	BLUE	-----	WHITE	GREEN
240V	BLACK	RED	BLUE	-----	GREEN

CONVENTIONS

X/Y	DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN
X/Y	SECTION/ELEVATION DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN
⟨1⟩	SEE NOTE INDICATED
AC/1	MECHANICAL EQUIPMENT TAG: SEE MECHANICAL DRAWINGS FOR EXACT EQUIPMENT INFORMATION.

ELECTRICAL ABBREVIATIONS.

A, AMP	AMPERES
AC	ALTERNATING CURRENT
AICS	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BKBD	BACKBOARD
C	CONDUIT, CONDUCTOR
CL	CONTINUOUS LOAD
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CNTL	CONTROL
CO	CONDUIT ONLY WITH 3/8" POLYPROPYLENE PULL ROPE
CPT	CONTROL POWER TRANSFORMER
CMIS	CORRECTIONAL MANAGEMENT INFORMATION SYSTEM
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DT	DISTRIBUTION TRANSFORMER
DTL	DETAIL
DWG	DRAWING
(E)	EXISTING
EDF, EWC	ELECTRIC DRINKING FOUNTAIN
ELEV	ELEVATION, ELEVATOR
EOLR	END OF LINE RESISTOR
(ER)	EXISTING TO BE RELOCATED
EP	EXPLOSION PROOF
FACP	FIRE ALARM CONTROL PANEL
FLUOR	FLUORESCENT
G, GND	GROUND
GRS	GALVANIZED RIGID STEEL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND OFF AUTOMATIC
HH	HANDHOLE
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
HPS	HIGH PRESSURE SODIUM
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LTG	LIGHTING
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LV	LOW VOLTAGE
LA	LIGHTING ARRESTER
MA	MILLIAMPERE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCM, KCMIL	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NCM	NURSE CALL MASTER STATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NO.	NUMBER
PC	PROGRAMMABLE CONTROLLER
PH, ø	PHASE
P	POLE
PAR	PERSONAL ALARM RECEIVER
PVC	POLYVINYL CHLORIDE
PT	POTENTIAL TRANSFORMER
PB	PUSH BUTTON, PULL BOX
PS	PRESSURE SWITCH
(R)	REMOVE
RECP	RECEPTACLE
REQ'D	REQUIRED
(RL)	RELOCATED
SCIC	SECURITY & COMMUNICATIONS INTERFACE CABINET
SCC	SOUND SYSTEM CABINET
SW	SWITCH
SWBD	SWITCHBOARD
TCP	TEMPERATURE CONTROL PANEL
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATTS, WIRE
W/	WITH
WP	WEATHERPROOF (NEMA 3R RATING)
XFMR	TRANSFORMER

GENERAL NOTES

1. DEVICE LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC. FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO ANY WORKS.
2. CONDUIT SYSTEMS MUST BE CONCEALED IN ALL INMATE ACCESSIBLE AREAS, AS DEFINED IN DCG. CONDUIT BELOW 10 FEET AFF MUST NOT BE EXPOSED. WHERE CONDUIT CANNOT BE CONCEALED INSIDE A WALL, AN APPROPRIATE SHROUD, APPROVED BY CDCR SECURITY, MUST BE USED TO CONCEAL THE CONDUIT.
3. MATERIALS, APPLIANCES, EQUIPMENT, AND DEVICES MUST CONFORM TO THE ACCEPTABLE UNDERWRITER'S LABORATORIES (UL) STANDARD. MATERIALS MUST BE COMMERCIAL SPECIFICATION GRADE. MATERIAL MUST CONFORM TO DCG REQUIREMENTS FOR SECURITY CLASSIFICATION.
4. MOUNTING HEIGHTS FOR ALL ELECTRICAL DEVICES SHALL BE MEASURED FROM THE FINISHED FLOOR GRADE TO THE CENTERLINE OF THE DEVICE U.O.N.

DELEGATED DESIGN SUBMITTAL

FIRE DETECTION AND ALARM SYSTEM

CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS WITH CALIFORNIA LICENSED PROFESSIONAL ENGINEER STAMP FROM AN APPROVED VENDOR WITH ALL THE REQUIREMENTS FOR A COMPLETE ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM DESIGN AND SUPPORTING DOCUMENTS AND CALCULATIONS. CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF THE SHOP DRAWINGS FROM THE CALIFORNIA STATE FIRE MARSHALL PRIOR TO START OF WORK.

DRAWING INDEX

SHEET #	SHEET NAME
E0.0	ELECTRICAL NOTES AND SYMBOL LEGEND
E1.0	LIGHTING DEMO PLAN – FIRST FLOOR
E1.1	LIGHTING DEMO PLAN – SECOND FLOOR
E1.2	LIGHTING NEW PLAN – FIRST FLOOR
E1.3	LIGHTING NEW PLAN – SECOND FLOOR
E2.0	POWER AND SIGNAL DEMO PLAN – FIRST FLOOR
E2.1	POWER AND SIGNAL DEMO PLAN – SECOND FLOOR
E2.2	POWER DEMO PLAN – ROOF
E2.3	POWER AND SIGNAL NEW PLAN – FIRST FLOOR
E2.4	POWER AND SIGNAL NEW PLAN – SECOND FLOOR
E2.5	POWER NEW PLAN – ROOF
E3.0	FIRE ALARM DEMO PLAN – FIRST FLOOR
E3.1	FIRE ALARM DEMO PLAN – SECOND FLOOR
E3.2	FIRE ALARM DEMO PLAN – ROOF
E3.3	FIRE ALARM NEW PLAN – FIRST FLOOR
E3.4	FIRE ALARM NEW PLAN – SECOND FLOOR
E3.5	FIRE ALARM NEW PLAN – ROOF
E4.0	ELECTRICAL DETAILS
E4.1	ELECTRICAL DETAILS
E4.2	ELECTRICAL PANEL SCHEDULES
E4.3	FIRE ALARM DETAILS

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06/29/25
24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

No. E 23082

NASIM MOHAMMADI
SENIOR ELECTRICAL ENGINEER

ALI KAZEMI
ALI KAZEMI
SUPERVISING ELECTRICAL ENGINEER

COR
24-014

ELECTRICAL NOTES AND SYMBOL LEGEND

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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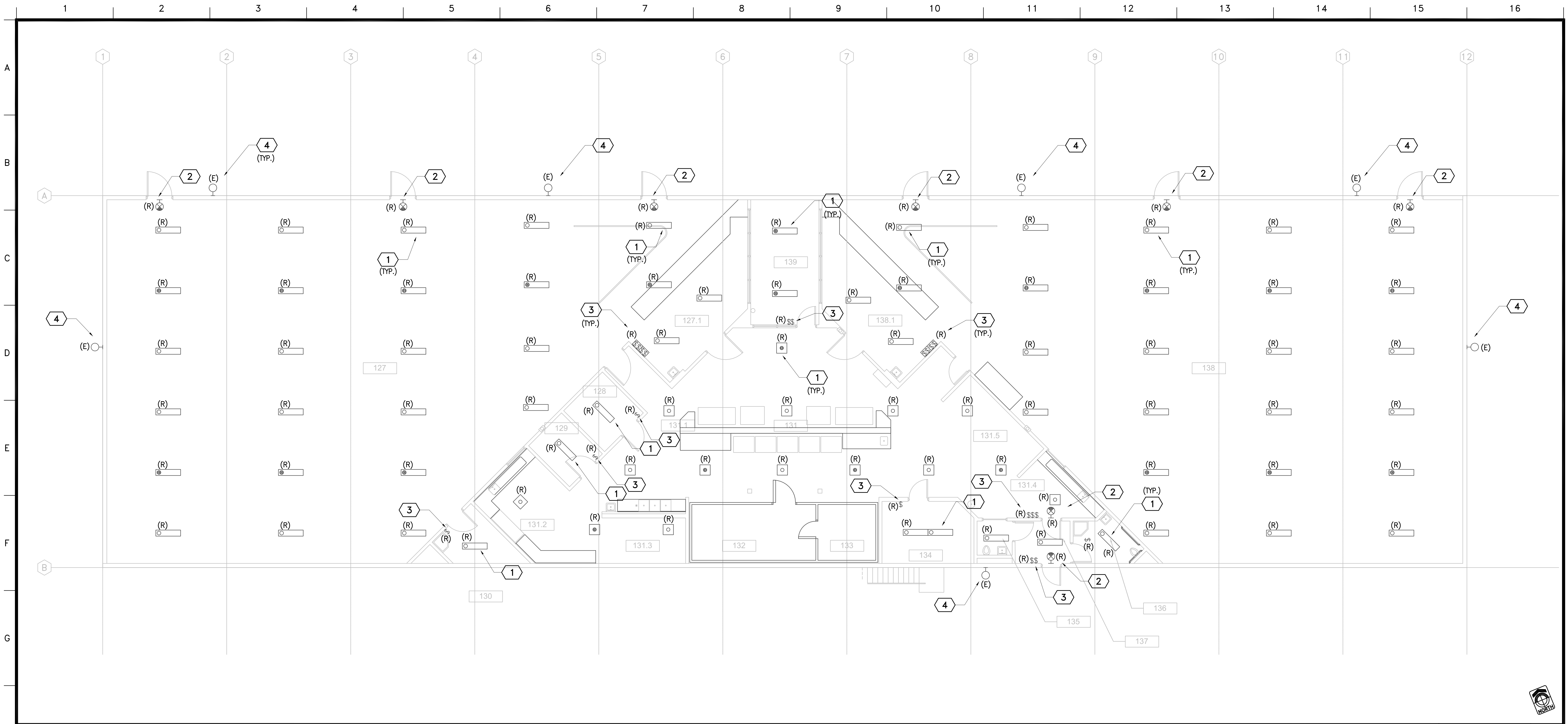
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER

E0.0

OF # SHEETS V3



LIGHTING DEMO PLAN – FIRST FLOOR

1/8"= 1'-0"

1

KEYNOTES

1. REMOVE EXISTING CEILING LIGHTS. REMOVE THE CONDUITS AND WIRES TO THE NEAREST UNDAMAGED ELECTRICAL BOX. KEEP CIRCUIT CONTINUITY TO OTHER EXISTING LOADS.
2. REMOVE EXISTING EXIT SIGNS. REMOVE THE CONDUITS AND WIRES TO THE NEAREST UNDAMAGED ELECTRICAL BOX. KEEP CIRCUIT CONTINUITY TO OTHER EXISTING LOADS.
3. EXISTING LIGHTING CONTROL SWITCHES TO REMAIN IN PLACE. TO BE USED FOR NEW LIGHTING SYSTEM CONTROL.
4. EXISTING EXTERIOR LIGHT TO REMAIN IN PLACE.

GENERAL NOTES

1. SEE DETAIL 2/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

ROOMS IDENTIFICATION

ROOM NO.	ROOM NAME
127	DINING
127.1	SERVICE
128	HOT STORAGE
129	TRASH HOLD
130	JANITOR
131	FOOD PREP. AREA
131.1	PASSAGE
131.2	DISH WASH
131.3	STORAGE
131.4	BREAKDOWN
131.5	CART HOLD
132	COOLER
133	FREEZER
134	DRY STORAGE
135	INMATE TOILET
136	STAFF TOILET
137	VESTIBULE
138	DINING
138.1	SERVICE
139	OFFICE

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NASIM MOHAMMADI
No. E 23082

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SENIOR ELECTRICAL ENGINEER

ALI KAZEMI
SUPERVISING ELECTRICAL ENGINEER

LIGHTING DEMO PLAN - FIRST FLOOR

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

COR
24-014

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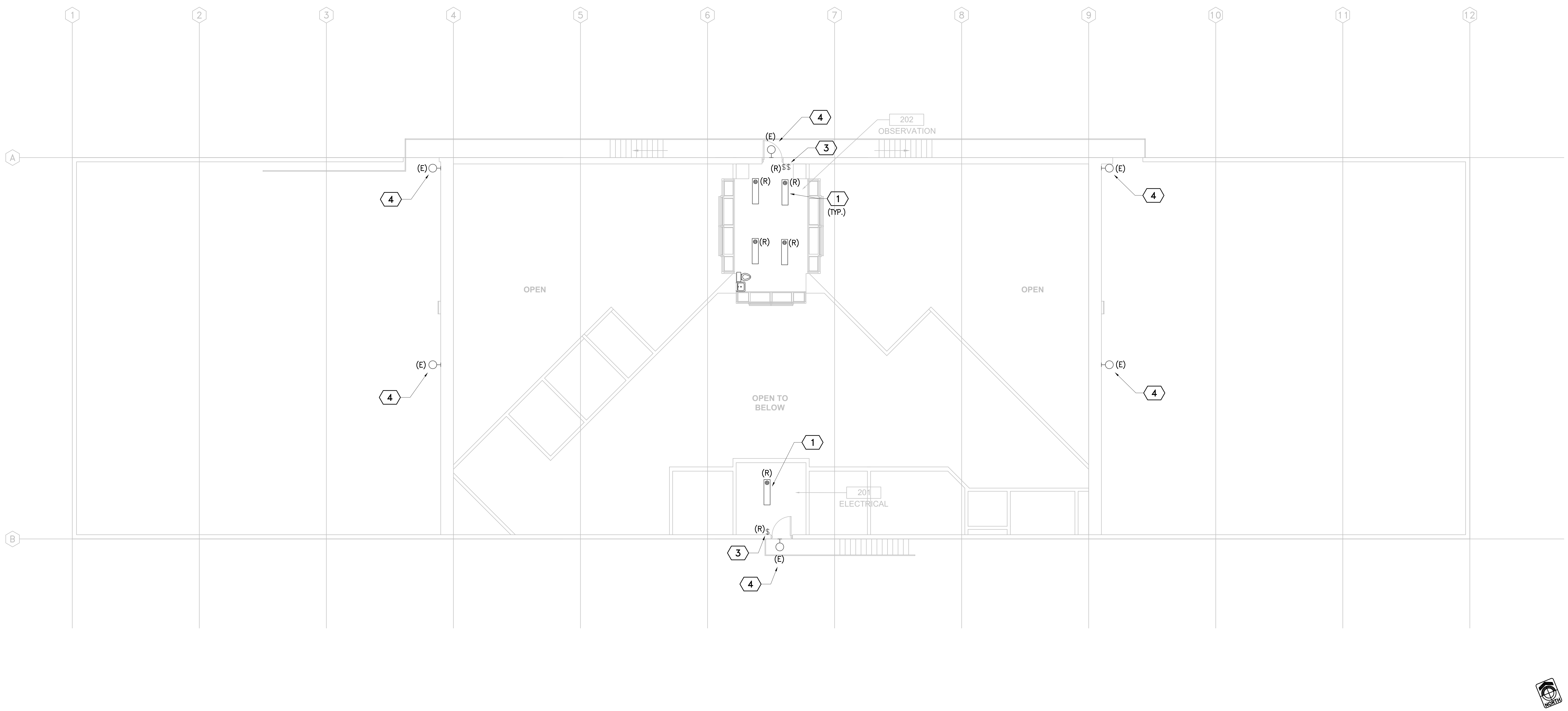
REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER

E1.0

OF # SHEETS V3



LIGHTING DEMO PLAN – SECOND FLOOR

1/8"= 1'-0"

1

KEYNOTES

1. REMOVE EXISTING CEILING LIGHT. REMOVE THE CONDUITS AND WIRES TO THE NEAREST UNDAMAGED ELECTRICAL BOX. KEEP CIRCUIT CONTINUITY TO OTHER EXISTING LOADS.
2. NOT USED.
3. EXISTING LIGHTING CONTROL SWITCHES TO REMAIN IN PLACE. TO BE USED FOR NEW LIGHTING SYSTEM CONTROL.
4. EXISTING EXTERIOR LIGHT TO REMAIN IN PLACE.

GENERAL NOTES

1. SEE DETAIL 2/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

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24-014

LIGHTING DEMO PLAN - SECOND FLOOR

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
E1.1
OF # SHEETS V3

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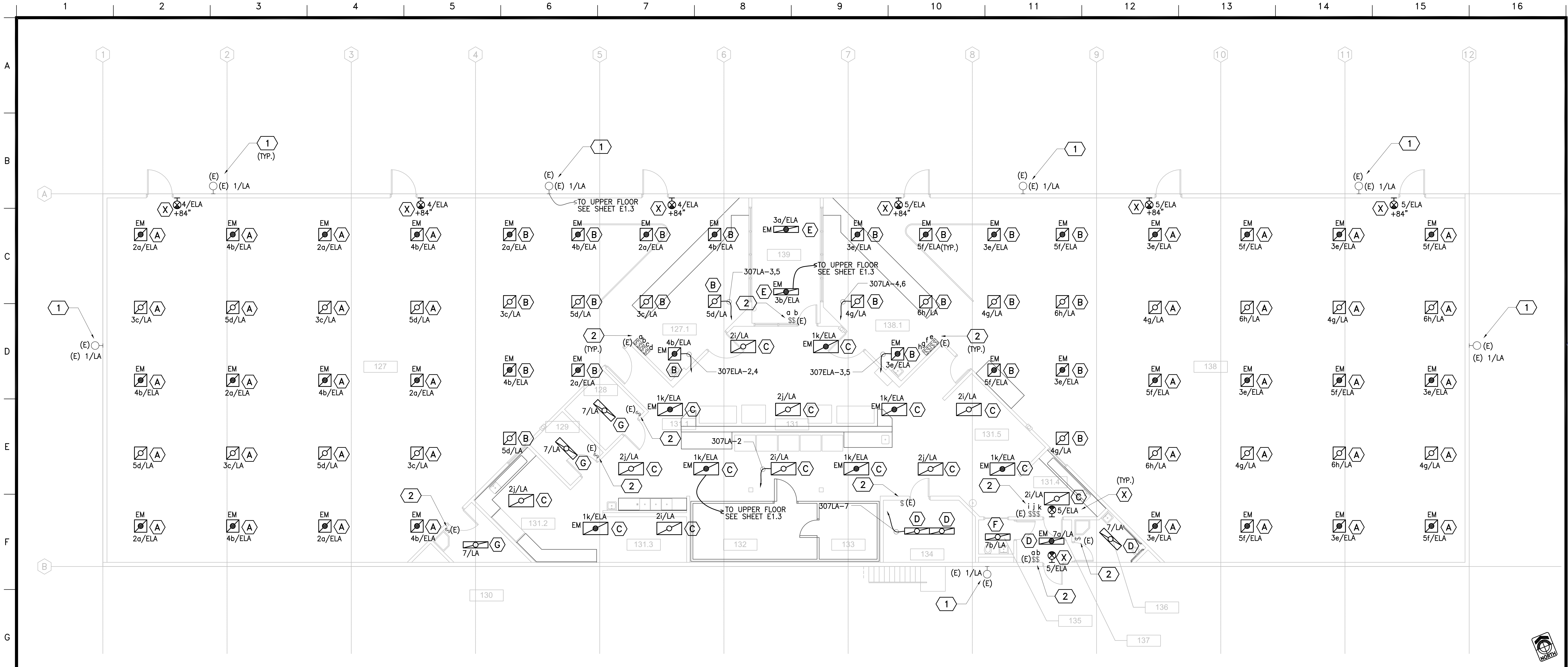

LIGHTING NEW PLAN – FIRST FLOOR

1/8"= 1'–0"

1

KEYNOTES

① EXISTING EXTERIOR LIGHT TO REMAIN IN PLACE. EXAMINE THE CIRCUIT CONTINUITY AND FUNCTIONALITY. REPLACE IN IN KIND IF DAMAGED.

② EXISTING LIGHTING SWITCH TO REMAIN IN PLACE. INSPECT FOR DAMAGES, CLEAN AND RE–CONNECT TO CONTROL NEW INTERIOR LIGHTING SYSTEM, AS SHOWN. REPLACE IN KIND IF DAMAGED.

GENERAL NOTES

1. SEE DETAIL 3/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/ CATALOG NO.	LAMP	WATTAGE	DESCRIPTION
A	FAIL–SAFE GRV–24–2–FA–LD4–70–40–ACTF140–UNV–EDC1–SLTP OR APPROVED EQUAL	LED	64.2	2X2 FT RECESSED VANDAL RESISTANT LENSED LED TROFFER. PROVIDE WITH "DFVR/GRV–2424W–U" 2'X2' DRYWALL FRAME KIT FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
B	FAIL–SAFE GRV–24–2–FA–LD4–90–40–P187–UNV–EDC1–SLTP OR APPROVED EQUAL	LED	86.0	2X2 FT RECESSED VANDAL RESISTANT LENSED LED TROFFER. PROVIDE WITH "DFVR/GRV–2424W–U" 2'X2' DRYWALL FRAME KIT FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
C	FAIL–SAFE GRV–24–4–FA–LD4–120–40–P187–UNV–EDC1–SLTP–INV–AM–90 OR APPROVED EQUAL	LED	90.1	2X4 FT RECESSED VANDAL RESISTANT LENSED LED TROFFER WITH INVERTED LENSE, ANTI–MICROBIAL SURFACES AND 90 CRI. PROVIDE WITH "DFVR/GRV–2424W–U" 2'X4' DRYWALL FRAME KIT FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
D	FAIL–SAFE FMR–S–12–4–LD4–1STD–40–UNV–80–*–EDC1–14G–CPHF–SF3 OR APPROVED EQUAL	LED	33.3	1X4 FT RECESSED CORRECTIONAL RECESSED LED FIXTURE. *: PROVIDE WITH ENV. SIDE LENSE OF 0.75" TEMPERED GLASS. PROVIDE WITH "SWBR" SWING OUT BRACKET FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
E	FAIL–SAFE FMR–S–12–4–LD4–2STD–40–UNV–80–*–EDC1–14G–CPHF–SF3 OR APPROVED EQUAL	LED	66.6	1X4 FT RECESSED CORRECTIONAL RECESSED LED FIXTURE. *: PROVIDE WITH ENV. SIDE LENSE OF 0.75" TEMPERED GLASS. PROVIDE WITH "SWBR" SWING OUT BRACKET FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
F	FAIL–SAFE FMR–S–12–4–LD4–1LO–40–UNV–80–*–EDC1–14G–CPHF–SF3 OR APPROVED EQUAL	LED	23.4	1X4 FT RECESSED CORRECTIONAL RECESSED LED FIXTURE. *: PROVIDE WITH ENV. SIDE LENSE OF 0.75" TEMPERED GLASS. PROVIDE WITH "SWBR" SWING OUT BRACKET FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
G	FAIL–SAFE FMR–S–12–4–LD4–1HI–40–UNV–80–*–EDC1–14G–CPHF–SF3 OR APPROVED EQUAL	LED	43.2	1X4 FT RECESSED CORRECTIONAL RECESSED LED FIXTURE. *: PROVIDE WITH ENV. SIDE LENSE OF 0.75" TEMPERED GLASS. PROVIDE WITH "SWBR" SWING OUT BRACKET FOR HARD CEILING INSTALLATION. FIXTURES WITH "EM" SHALL BE EQUIPPED WITH "EL14W" EMERGENCY BATTERY PACK.
H	METALUX 8SLSTP8040DD–UNV OR APPROVED EQUAL	LED	76.0	8 FT SUSPENDED LENSED STRIPLIGHT. PROVIDE ALL ACCESSORIES NEEDED FOR SUSPENDING THE FIXTURE FROM CEILING.
X	FAIL–SAFE EXL–7–1–RW–WH–SF3 OR APPROVED EQUAL	LED	1.03	WALL MOUNTED VANDAL RESISTANT LED EXIT SIGN. WALL MOUNTED FIXTURES TO BE INSTALLED RIGHT ABOVE THE DOOR, OR AT THE HEIGHT SHOWN ON PLANS MEASURED TO THE TOP OF FIXTURE.

ROOMS IDENTIFICATION AND LIGHTING LEVELS

ROOM NO.	ROOM NAME	AREA (SQ.FT.)	LTG. WATTS	WATT/ SQ.FT.	GENERAL LIGHTING LEVELS (FC)				EMERGENCY LIGHTING LEVELS (FC)			
					AVE	MAX	MIN	AVE/MIN	AVE	MAX	MIN	AVE/MIN
127	DINING	4764	2316	0.49	31.6	52.9	16.0	2.0:1	3.8	10.1	1.1	3.5:1
127.1	SERVICE				40.8	51.2	20.9	2.0:1	3.9	5.1	1.2	3.3:1
128	HOT STORAGE	83	43	0.52	19.6	29.3	13.4	1.5:1	N/A	N/A	N/A	N/A
129	TRASH HOLD	70	43	0.62	22.0	29.8	14.5	1.5:1	N/A	N/A	N/A	N/A
130	JANITOR	82	43	0.53	31.1	51.8	13.4	2.3:1	N/A	N/A	N/A	N/A
131	FOOD PREP. AREA	2025	1442	0.71	49.0	70.8	15.3	3.2:1	2.9	5.2	0.7	4.1:1
131.1	PASSAGE											
131.2	DISH WASH											
131.3	STORAGE											
131.4	BREAKDOWN											
131.5	CART HOLD											
132	COOLER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
133	FREEZER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
134	DRY STORAGE	145	67	0.46	24.7	41.8	13.4	1.8:1	N/A	N/A	N/A	N/A
135	INMATE TOILET	39	23	0.60	19.0	22.8	17.0	1.1:1	N/A	N/A	N/A	N/A
136	STAFF TOILET	68	33	0.49	19.7	26.5	12.8	1.5:1	N/A	N/A	N/A	N/A
137	VESTIBULE	61	33	0.55	19.4	26.6	14.8	1.3:1	8.2	11.2	6.2	1.3:1
138	DINING	4764	2316	0.49	31.6	52.9	16.0	2:1	3.8	10.1	1.1	3.5:1
138.1	SERVICE				40.8	51.2	20.9	2:1	3.9	5.1	1.2	3.3:1
139	OFFICE	218	133	0.61	40.6	85.0	19.0	2.1:1	8.5	17.8	4.0	2.1:1
201	ELECTRICAL ROOM	125	152	1.22	27.2	37.1	19.0	1.4:1	N/A	N/A	N/A	N/A
202	OBSERVATION	221	133	0.60	36.4	54.9	22.6	1.6:1	7.6	11.5	4.7	1.6:1
	COMPLETE BUILDING	12665	6778	0.54								

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24-3165
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#1336 6/30/2025
CASp-491
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No. E 23082

NASIM MOHAMMADI
SENIOR ELECTRICAL ENGINEER

ALI KAZEMI
ALI KAZEMI
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COR
24-014

LIGHTING NEW PLAN - FIRST FLOOR
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

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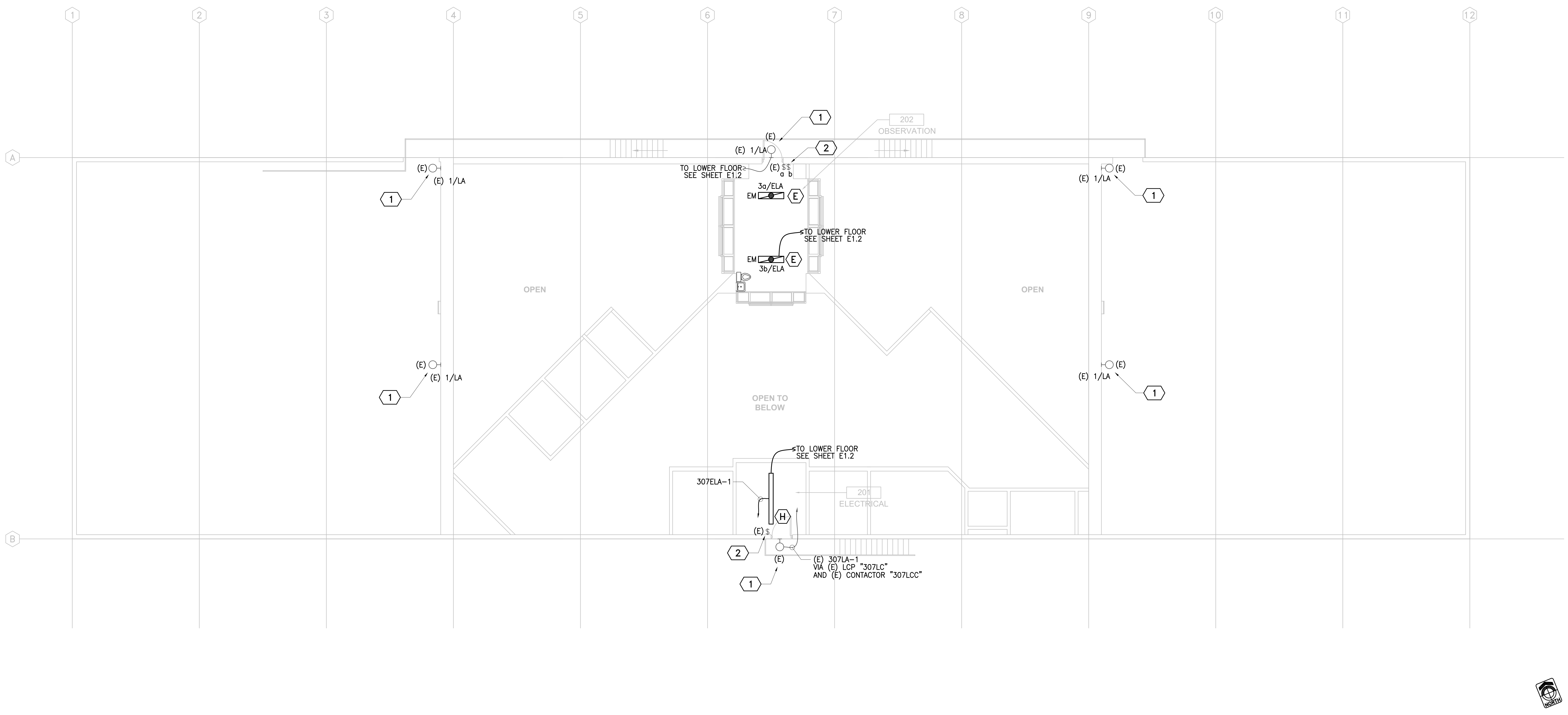

LIGHTING NEW PLAN – SECOND FLOOR

1/8"= 1'-0"

1

KEYNOTES

1. EXISTING EXTERIOR LIGHT TO REMAIN IN PLACE. EXAMINE THE CIRCUIT CONTINUITY AND FUNCTIONALITY. REPLACE IN IN KIND IF DAMAGED.
2. EXISTING LIGHTING SWITCH TO REMAIN IN PLACE. INSPECT FOR DAMAGES, CLEAN AND RE-CONNECT TO CONTROL NEW INTERIOR LIGHTING SYSTEM, AS SHOWN. REPLACE IN KIND IF DAMAGED.

GENERAL NOTES

1. SEE DETAIL 3/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.
2. PROVIDE NEW INTERIOR LIGHTING SYSTEM AS SHOWN ON PLANS.
3. SEE SHEET E1.2 FOR LIGHTING FIXTURES SCHEDULE AND ROOMS LIGHTING LEVELS.

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FACILITY III A KITCHEN REPAIRS

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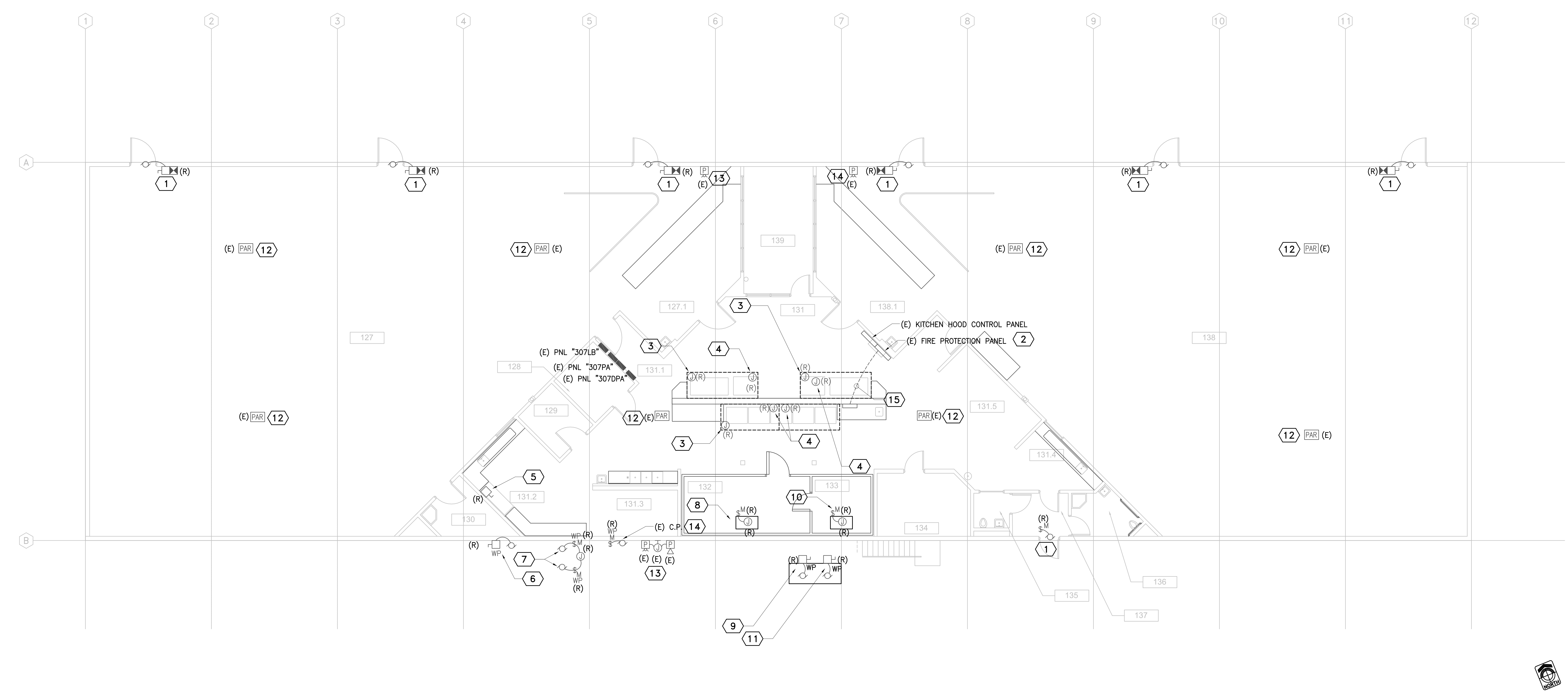

POWER AND SIGNAL DEMO PLAN – FIRST FLOOR 1/8"= 1'-0" 1

KEYNOTES

1. EXISTING FLY FAN TO BE REMOVED. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION. EXISTING UNDAMAGED WIRES AND CONDUITS CAN BE USED FOR NEW FLY FANS IF SAFE.
2. EXISTING KITCHEN HOOD CONTROL AND FIRE PROTECTION PANEL TO BE REMOVED. DISCONNECT THE EXISTING CIRCUITS. EXISTING CIRCUITS TO BE RE–ROUTED TO THE NEW HOOD FIRE PROTECTION PANELS. SEE FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
3. DISCONNECT THE ELECTRICAL CONNECTION TO EXISTING KITCHEN HOOD LIGHTS. EXISTING CIRCUIT TO BE USED FOR THE NEW HOODS LIGHTS.
4. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING KITCHEN HOOD DUCT DAMPERS.
5. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING DISH WASHER. REMOVE THE EXISTING DISCONNECT SWITCH, WIRES AND CONDUITS TO THE ORIGINATING ELECTRICAL PANEL AS POSSIBLE.
6. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING PUMP.
7. DISCONNECT AND REMOVE EXISTING PUMPS ELECTRICAL CONNECTIONS.
8. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING COOLER EVAPORATOR.
9. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING COOLER CONDENSER.
10. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING FREEZER EVAPORATOR.
11. DISCONNECT AND REMOVE THE ELECTRICAL CONNECTION TO EXISTING FREEZER CONDENSER.
12. EXISTING PERSONAL DURESS ALARM SYSTEM RECEIVER. TEST AND VERIFY OPERABILITY AND FUNCTIONALITY. REPLACE, RE–CONNECT AND TEST DAMAGED EQUIPMENT. SEE ELECTRICAL ROOM ENLARGED PLAN FOR THE CONTROL PANEL LOCATION.
13. EXISTING PERSONAL DURESS ALARM SYSTEM AUDIO VISUAL DEVICES. TEST AND VERIFY OPERABILITY AND FUNCTIONALITY. REPLACE, RE–CONNECT AND TEST DAMAGED EQUIPMENT. SEE ELECTRICAL ROOM ENLARGED PLAN FOR THE CONTROL PANEL LOCATION.
14. DISCONNECT EXISTING CIRCULATION PUMP ELECTRICAL CONNECTION. THE CIRCUIT TO BE USED FOR THE NEW CIRCULATION PUMP AND GAS WATER HEATER POWER CONNECTION.
15. DISCONNECT AND REMOVE THE INTERCONNECTION FROM (E) KITCHEN FIRE PROTECTION PANEL TO (E) KITCHEN UTILITY DISTRIBUTION PANEL, FOR POWER SHUT–OFF. INTERCONNECTION SHALL BE RE–ROUTED TO NEW KITCHEN FIRE SUPPRESSION CONTROL PANELS.

GENERAL NOTES

1. SEE DETAIL 2/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

ROOMS IDENTIFICATION

ROOM NO.	ROOM NAME
127	DINING
127.1	SERVICE
128	HOT STORAGE
129	TRASH HOLD
130	JANITOR
131	FOOD PREP. AREA
131.1	PASSAGE
131.2	DISH WASH
131.3	STORAGE
131.4	BREAKDOWN
131.5	CART HOLD
132	COOLER
133	FREEZER
134	DRY STORAGE
135	INMATE TOILET
136	STAFF TOILET
137	VESTIBULE
138	DINING
138.1	SERVICE
139	OFFICE

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POWER AND SIGNAL DEMO PLAN - FIRST FLOOR
FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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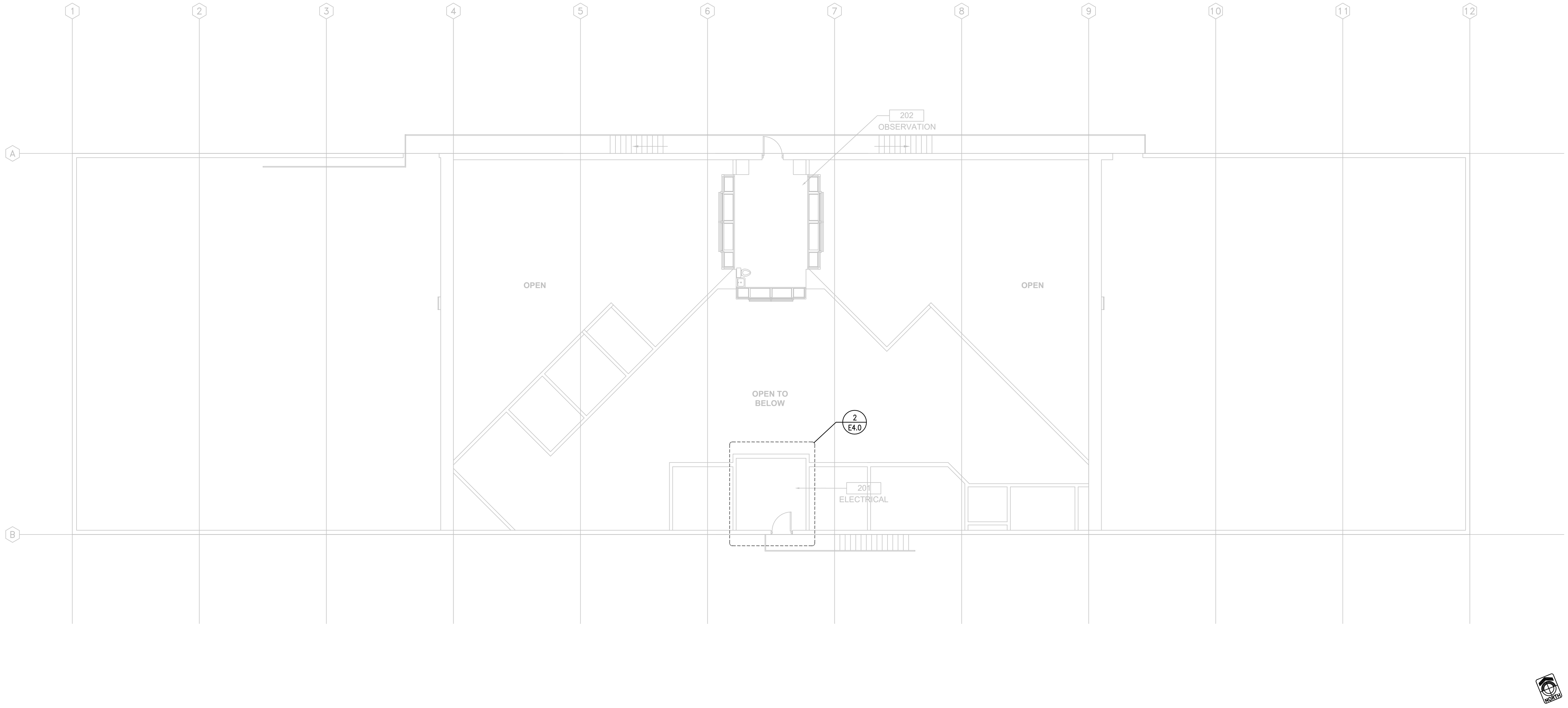

POWER AND SIGNAL DEMO PLAN – SECOND FLOOR 1/8"= 1'-0" 1

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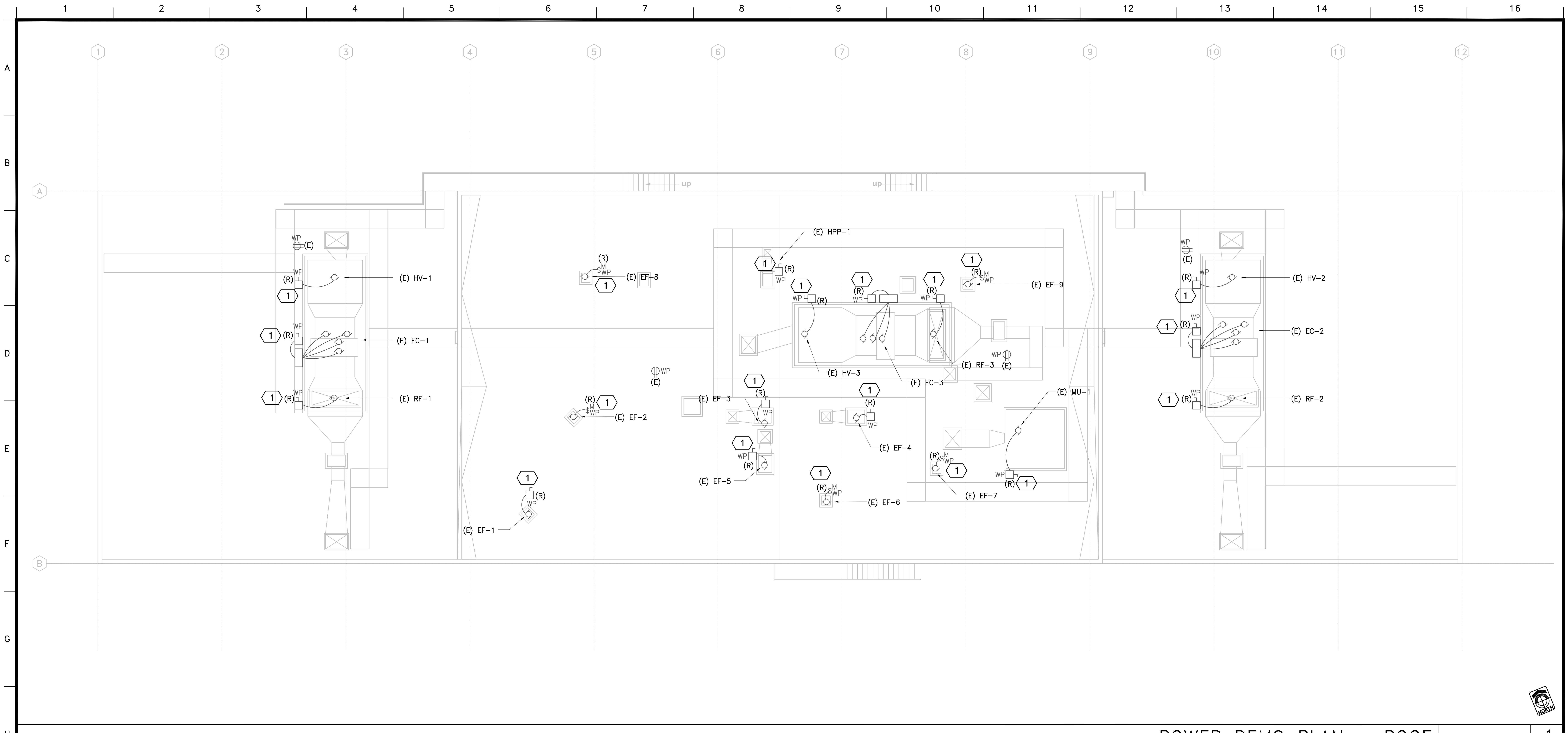

POWER DEMO PLAN – ROOF

1/8"= 1'-0"

1

KEYNOTES

1. REMOVE EXISTING ELECTRICAL CONNECTIONS TO THE EXISTING MECHANICAL EQUIPMENT. REMOVE THE WIRES BACK TO THE ORIGINATING ELECTRICAL PANEL. REMOVE UNUSED CONDUITS. UNDAMAGED CONDUITS AND STUB-UPS CAN BE USED FOR NEW WIRING ONLY IF IT'S SAFE AND IT MATCHES THE NEW CONDUIT STUP-UPS LOCATION AND SIZE.

GENERAL NOTES

1. SEE DETAIL 2/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

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POWER DEMO PLAN - ROOF
FACILITY III A KITCHEN REPAIRS

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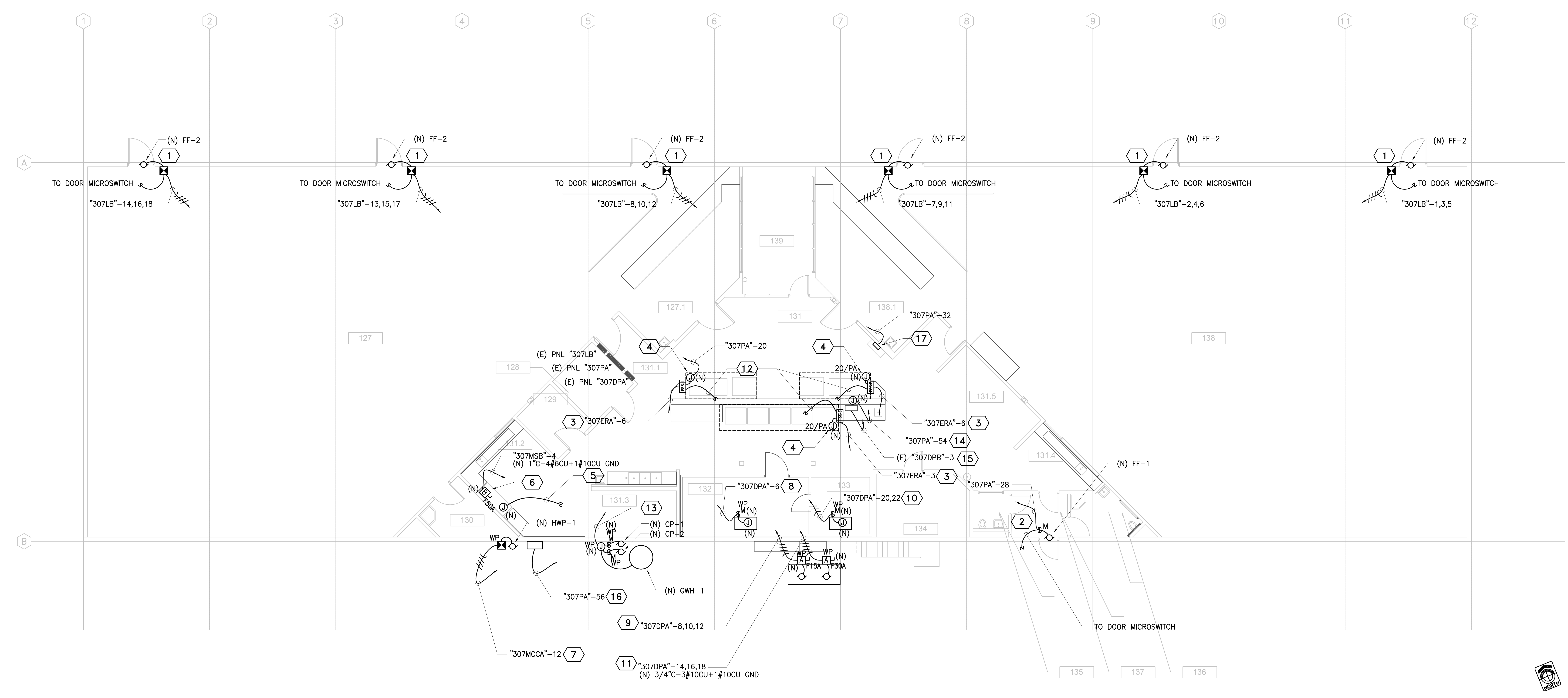

POWER AND SIGNAL NEW PLAN – FIRST FLOOR 1/8"= 1'-0" 1

KEYNOTES

1. (N) FF-2; 480V/3ø/60Hz, (2) 1 HP, 3.1A FLA. PROVIDE POWER TO NEW FLY FAN FACTORY PROVIDED CONTROLLER/DISCONNECT. EXISTING UNDAMAGED WIRES AND CONDUITS CAN BE USED FOR NEW FLY FANS IF SAFE. PROVIDE INTERCONNECTIONS TO DOOR MICRO-SWITCH AS PER THE MANUFACTURER INSTRUCTIONS.
2. (N) FF-1; 120V/1ø/60Hz, 0.5 HP, 5.1A FLA. PROVIDE POWER TO NEW FLY FAN FACTORY PROVIDED DISCONNECT. EXISTING UNDAMAGED WIRES AND CONDUITS CAN BE USED FOR NEW FLY FANS IF SAFE. PROVIDE INTERCONNECTIONS TO DOOR MICRO-SWITCH AS PER THE MANUFACTURER INSTRUCTIONS.
3. PROVIDE POWER TO NEW KITCHEN HOOD FIRE SUPPRESSION PANEL. SEE FIRE ALARM DRAWINGS FOR INTERCONNECTIONS TO FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL INSTALL ALL NECESSARY INTERCONNECTIONS BETWEEN THE FIRE SUPPRESSION PANEL AND SUPPLY AND EXHAUST FANS CONTROLS, AND ALL OTHER ASSOCIATED COMPONENTS, AS PER THE HOOD MANUFACTURER INSTRUCTIONS.
4. PROVIDE POWER CONNECTION TO NEW HOOD LIGHTS VIA HOOD CONTROL PANEL. SEE KEY NOTE 17.
5. (N) 3/4"C. AND CONTROL WIRES TO THE ASSOCIATED EXHAUST FAN KEF-4 CONTROLS AS PER THE HOOD MANUFACTURER INSTRUCTIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
6. (N) DISH WASHING MACHINE, 480V/3ø/60Hz, 37.9A FLA. PROVIDE POWER CONNECTION TO NEW DISH WASHING MACHINE.
7. (N) HWP-1; 460V/3ø/60Hz, 3 HP. PROVIDE POWER TO NEW PUMP FACTORY PROVIDED VFD/DISCONNECT SWITCH. EXISTING UNDAMAGED POWER CIRCUIT WIRES AND CONDUITS CAN BE USED IF SAFE.
8. (N) EU-1; 120V/1ø, (2) 110W, 1.8A FLA, 15A MCA, 15A MOCP. PROVIDE ELECTRICAL POWER TO NEW COOLER EVAPORATOR.
9. (N) CU-1; 230V/3ø, 15A MCA, 15A MOCP. PROVIDE POWER TO NEW COOLER CONDENSER.
10. (N) EU-2; 230V/1ø, (2) 118w, 1A FLA, 15A MCA, 15A MOCP. PROVIDE ELECTRICAL POWER TO NEW FREEZER EVAPORATOR.
11. (N) CU-2; 230V/3ø, 28.8A MCA, 30A MOCP. PROVIDE POWER TO NEW FREEZER CONDENSER.
12. (N) 3/4"C. AND CONTROL WIRES TO THE ASSOCIATED EXHAUST FAN KEF-1,2,3 AND MAU-1 CONTROLS AS PER THE HOOD MANUFACTURER INSTRUCTIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
13. RECONNECT THE EXISTING UN-SWITCHED 120V CIRCUIT TO THE NEW GAS WATER HEATER AND THE CIRCULATION PUMPS. REMOVE ALL EXISTING CONTROLS ON THE EXISTING 120V CIRCUIT, IF ANY. SEE SHEET E2.0 KEYNOTE 14.
14. POWER AT THE GAS SOLENOID VALVE RELAY PANEL SHALL SHUT OFF BY ANY OF THE KITCHEN FIRE SUPPRESSION SYSTEMS ACTIVATION. PROVIDE ALL INTERCONNECTIONS NEEDED.
15. POWER TO KITCHEN UTILITY DISTRIBUTION PANEL SHALL SHUT OFF BY ANY OF THE KITCHEN FIRE SUPPRESSION SYSTEMS ACTIVATION. PROVIDE ALL INTERCONNECTIONS NEEDED.
16. PROVIDE 120V/1ø CIRCUIT TO THE CNTRL/TX PANEL. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
17. NEW HOOD CONTROL PANEL. PROVIDE ALL INTERCONNECTIONS NEEDED TO MAU AND KEF AND HOOD LIGHTS AS PER THE MANUFACTURER INSTRUCTIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

GENERAL NOTES

1. SEE DETAIL 3/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.

ROOMS IDENTIFICATION

ROOM NO.	ROOM NAME
127	DINING
127.1	SERVICE
128	HOT STORAGE
129	TRASH HOLD
130	JANITOR
131	FOOD PREP. AREA
131.1	PASSAGE
131.2	DISH WASH
131.3	STORAGE
131.4	BREAKDOWN
131.5	CART HOLD
132	COOLER
133	FREEZER
134	DRY STORAGE
135	INMATE TOILET
136	STAFF TOILET
137	VESTIBULE
138	DINING
138.1	SERVICE
139	OFFICE

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POWER AND SIGNAL NEW PLAN - FIRST FLOOR

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
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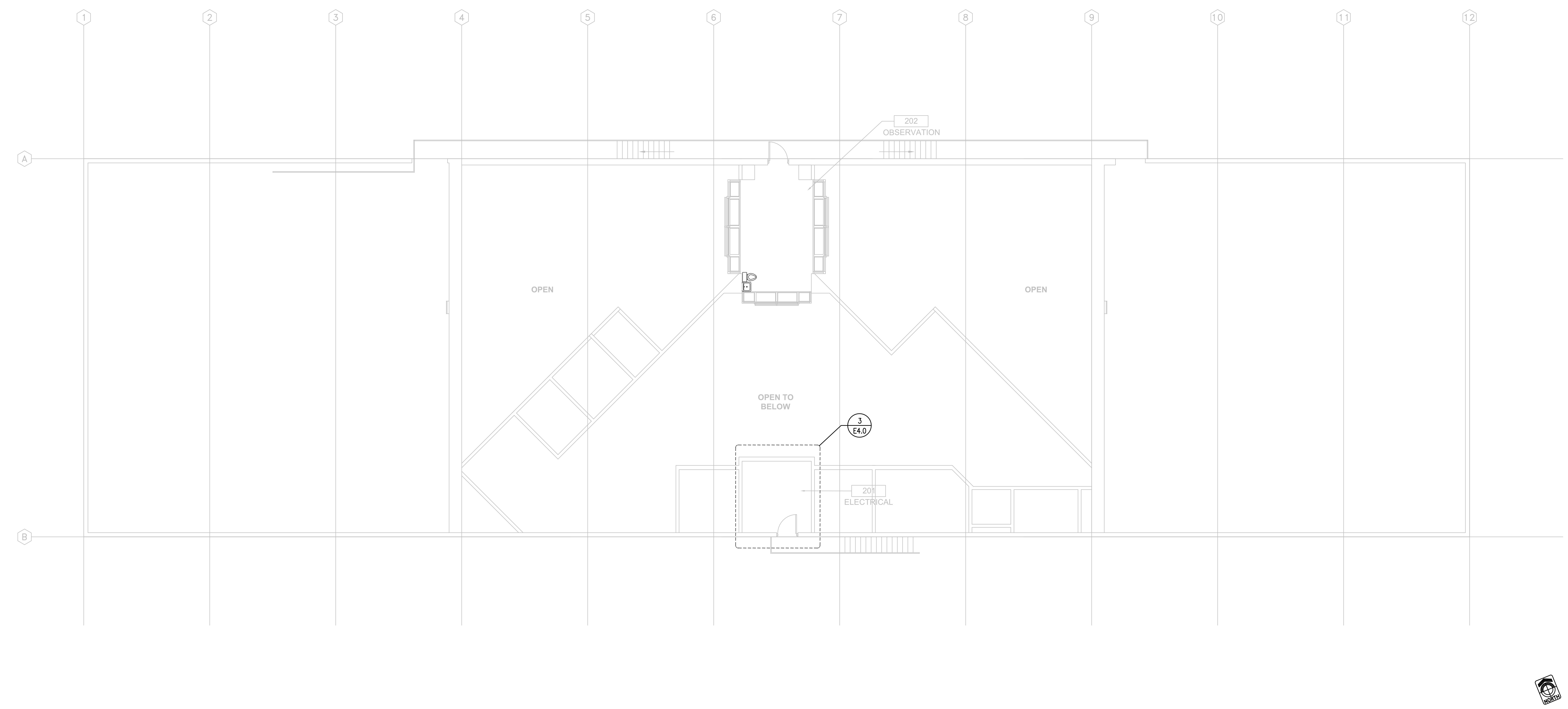

POWER AND SIGNAL NEW PLAN – SECOND FLOOR 1/8"= 1'-0" 1

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POWER AND SIGNAL NEW PLAN - SECOND FLOOR

FACILITY III A KITCHEN REPAIRS

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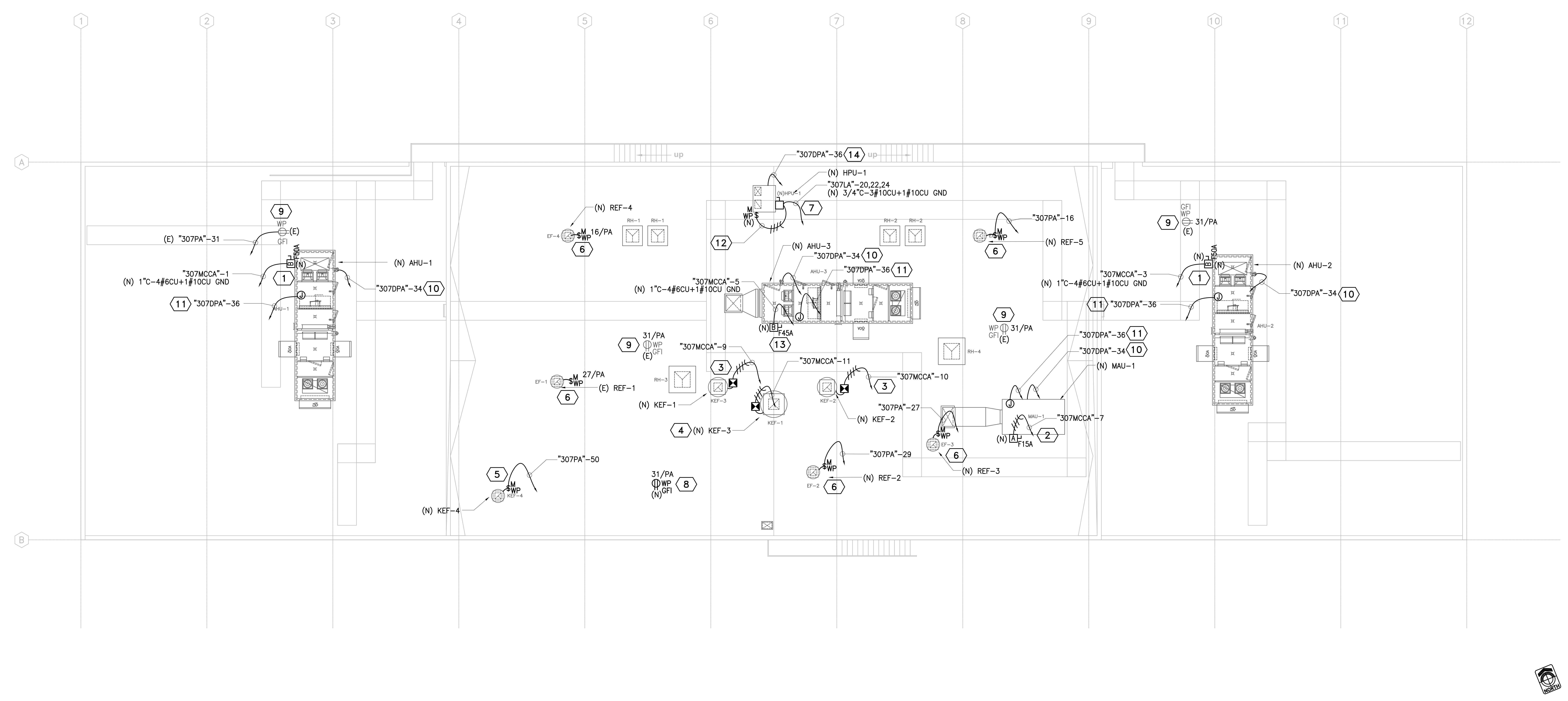

POWER NEW PLAN — ROOF 1/8"= 1'-0" 1

KEYNOTES

1. (N) AHU-1,2; 460V/3ø/60Hz, 39A FLA, 41.25A MCA, 50.25A MOCP. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS.
2. (N) MAU-1; 460V/3ø/60Hz, 10.5A MCA, 15A MOCP. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS.
3. (N) KEF-1,2; 460V/3ø/60Hz, 3HP, 4.8A FLA. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS TO FACTORY PROVIDED ENCLOSED CONTROLLER/DISCONNECT SWITCH.
4. (N) KEF-3; 460V/3ø/60Hz, 5HP, 7.6A FLA. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS TO FACTORY PROVIDED ENCLOSED CONTROLLER/DISCONNECT SWITCH.
5. (N) KEF-4; 120V/1ø/60Hz, 0.5HP, 6.3A FLA. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS TO FACTORY PROVIDED DISCONNECT.
6. (N) REF-1,2,3,4,5; 120V/1ø/60Hz, 1/4HP, 3.8A FLA. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS, TO FACTORY PROVIDED DISCONNECT SWITCH.
7. (N) HPU-1; 460V/3ø/60Hz, 22A MCA, 25A MOCP. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS TO FACTORY PROVIDED DISCONNECT SWITCH.
8. PROVIDE NEW MAINTENANCE RECEPTACLE WITHIN 25 FT OF MECHANICAL EQUIPMENT. WATERPROOF WHILE IN USE TYPE.
9. EXISTING MAINTENANCE RECEPTACLE.
10. PROVIDE 120V/1ø CIRCUIT TO THE AHU AND MAU LIGHTS AND MAINTENANCE RECEPTACLE.
11. PROVIDE DEDICATED 120V/1ø CIRCUIT TO THE AHU AND MAU CONTROLLER.
12. (N) ECONOMIZER; 460V/3ø/60Hz, 0.5HP, 1.4A FLA, 1.8A MCA, 10A MOCP. PROVIDE POWER CONNECTION FROM THE LINE SIDE OF THE UNIT MAIN DISCONNECT SWITCH TO THE ECONOMIZER FACTORY DISCONNECT.
13. (N) AHU-3; 460V/3ø/60Hz, 33.5A FLA, 36.4A MCA, 47.8A MOCP. PROVIDE POWER CONNECTION, AS SHOWN ON THE PLANS.
14. PROVIDE 120V/1ø CIRCUIT TO THE HPU-1 CONTROLLER. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

GENERAL NOTES

1. SEE DETAIL 3/E4.0 FOR ELECTRICAL ROOM ENLARGED PLAN.
2. RUN CIRCUIT CONDUITS UNDER THE ROOF AND STUP-UP ABOVE THE ROOF AS CLOSE AS POSSIBLE TO THE LOAD.

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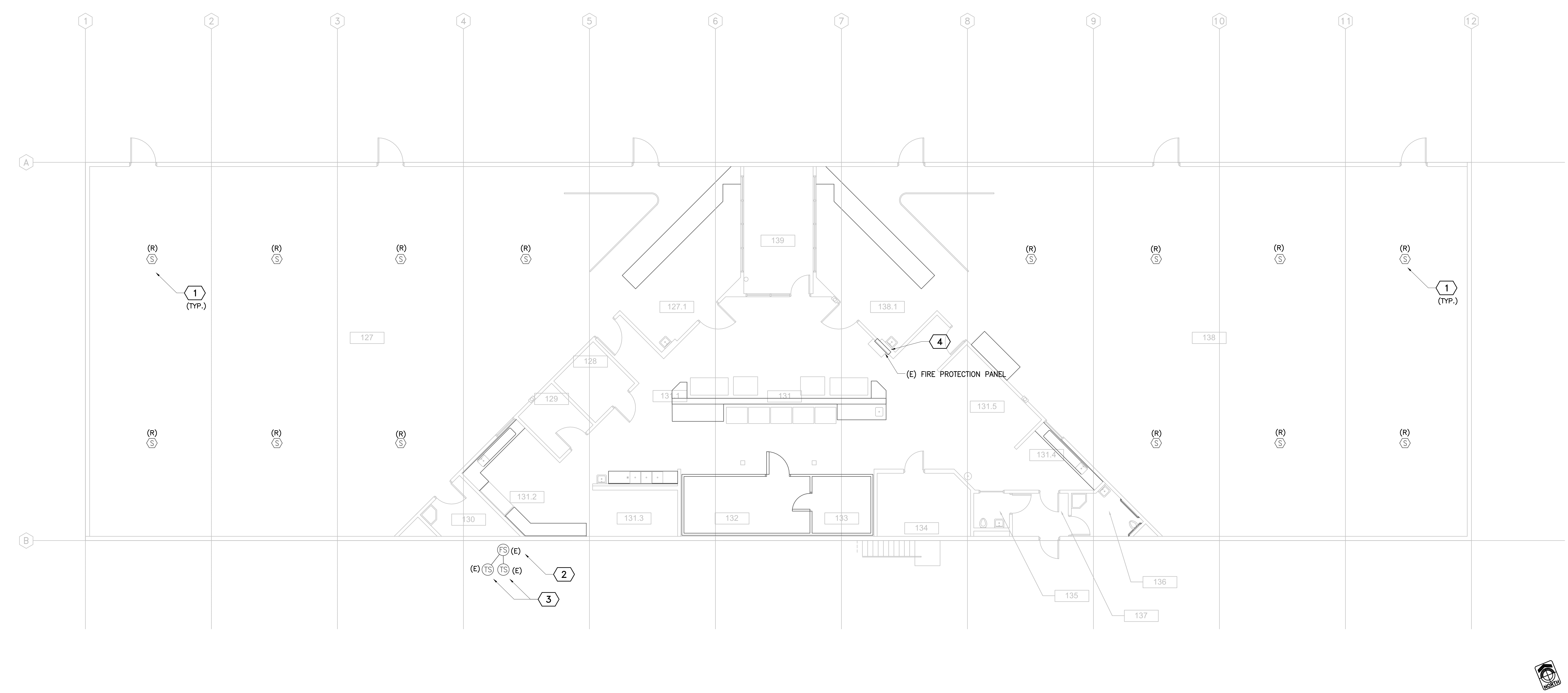

FIRE ALARM DEMO PLAN – FIRST FLOOR

1/8"= 1'-0"

1

KEYNOTES

1. REMOVE EXISTING DETECTORS. REMOVE THE FIRE ALARM WIRES. UNDAMAGED EXISTING CONDUITS TO REMAIN IN PLACE.
2. EXISTING FLOW SWITCH (TO BE DECOMMISSIONED). DISCONNECT AND REMOVE THE FIRE ALARM WIRES. UNDAMAGED EXISTING CONDUITS TO REMAIN IN PLACE.
3. EXISTING TAMPER SWITCH (TO BE DECOMMISSIONED). DISCONNECT AND REMOVE THE FIRE ALARM WIRES. UNDAMAGED EXISTING CONDUITS TO REMAIN IN PLACE.
4. EXISTING KITCHEN FIRE PROTECTION PANEL (TO BE DECOMMISSIONED). DISCONNECT AND REMOVE THE FIRE ALARM WIRES AND CONDUITS AS POSSIBLE.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. ENTIRE EXISTING FIRE ALARM SYSTEM IN THE BUILDING SHALL BE REMOVED, UP TO AND INCLUDING THE FIRE ALARM CONTROL PANEL IN THE ELECTRICAL ROOM. UNDAMAGED CONDUITS CAN BE RE-USED WHERE APPLICABLE.
3. SEE 1/E3.1 FOR FIRE ALARM CONTROL PANEL LOCATION.

ROOMS IDENTIFICATION

ROOM NO.	ROOM NAME
127	DINING
127.1	SERVICE
128	HOT STORAGE
129	TRASH HOLD
130	JANITOR
131	FOOD PREP. AREA
131.1	PASSAGE
131.2	DISH WASH
131.3	STORAGE
131.4	BREAKDOWN
131.5	CART HOLD
132	COOLER
133	FREEZER
134	DRY STORAGE
135	INMATE TOILET
136	STAFF TOILET
137	VESTIBULE
138	DINING
138.1	SERVICE
139	OFFICE

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No. E 23082

NASIM MOHAMMADI
SENIOR ELECTRICAL ENGINEER

ALI KAZEMI

ALI KAZEMI
SUPERVISING ELECTRICAL ENGINEER

COR
24-014

FIRE ALARM DEMO PLAN - FIRST FLOOR

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
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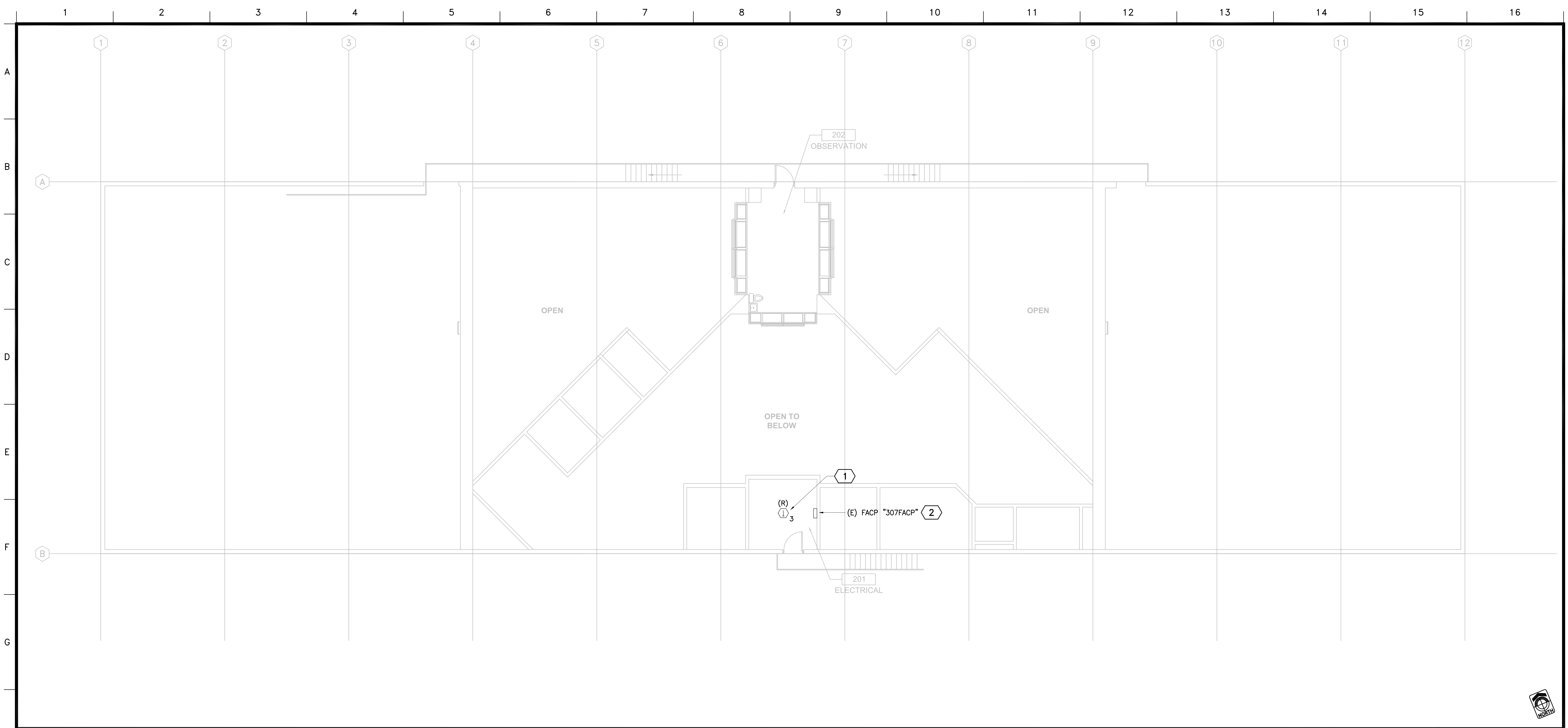

FIRE ALARM DEMO PLAN – SECOND FLOOR | 1/8"= 1'-0" | 1

KEYNOTES

1. REMOVE EXISTING DETECTORS. REMOVE THE FIRE ALARM WIRES. UNDAMAGED EXISTING CONDUITS TO REMAIN IN PLACE.
2. DISCONNECT AND REMOVE EXISTING FIRE ALARM CONTROL PANEL.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. ENTIRE EXISTING FIRE ALARM SYSTEM IN THE BUILDING SHALL BE REMOVED, UP TO AND INCLUDING THE FIRE ALARM CONTROL PANEL IN THE ELECTRICAL ROOM. UNDAMAGED CONDUITS CAN BE RE–USED WHERE APPLICABLE.

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FIRE ALARM DEMO PLAN - SECOND FLOOR

FACILITY III A KITCHEN REPAIRS

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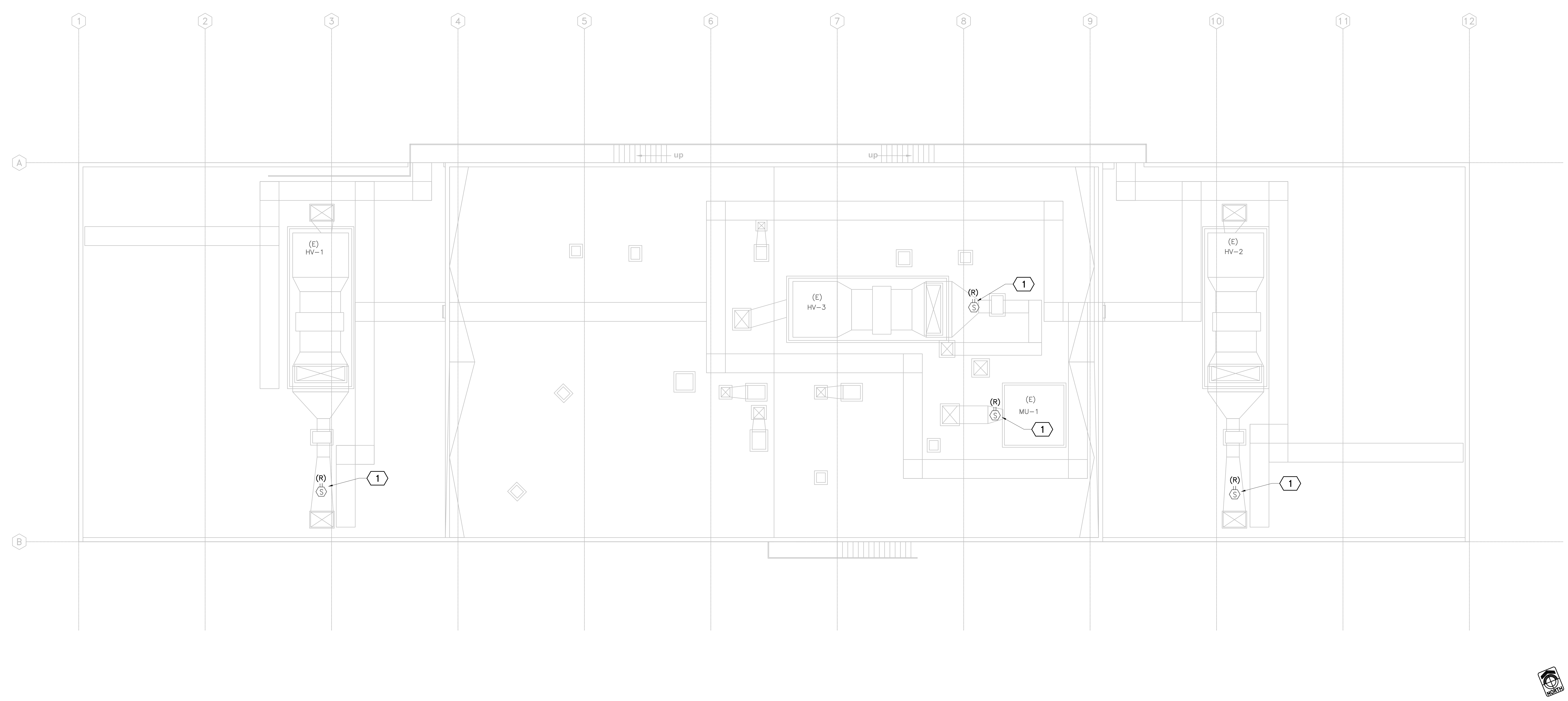

FIRE ALARM DEMO PLAN – ROOF 1/8"= 1'-0" 1

KEYNOTES

1. DISCONNECT AND REMOVE THE DUCT SMOKE DETECTOR. REMOVE THE WIRES BACK TO THE EXISTING FACP. UNDAMAGED CONDUITS AND STUB-UPS CAN BE USED FOR NEW WIRING ONLY IF IT'S SAFE AND IT MATCHES THE NEW CONDUIT STUP-UPS LOCATION AND SIZE.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. ENTIRE EXISTING FIRE ALARM SYSTEM IN THE BUILDING SHALL BE REMOVED, UP TO AND INCLUDING THE FIRE ALARM CONTROL PANEL IN THE ELECTRICAL ROOM. UNDAMAGED CONDUITS CAN BE RE-USED WHERE APPLICABLE.
3. SEE 1/E3.1 FOR FIRE ALARM CONTROL PANEL LOCATION.

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FIRE ALARM DEMO PLAN - ROOF

FACILITY III A KITCHEN REPAIRS

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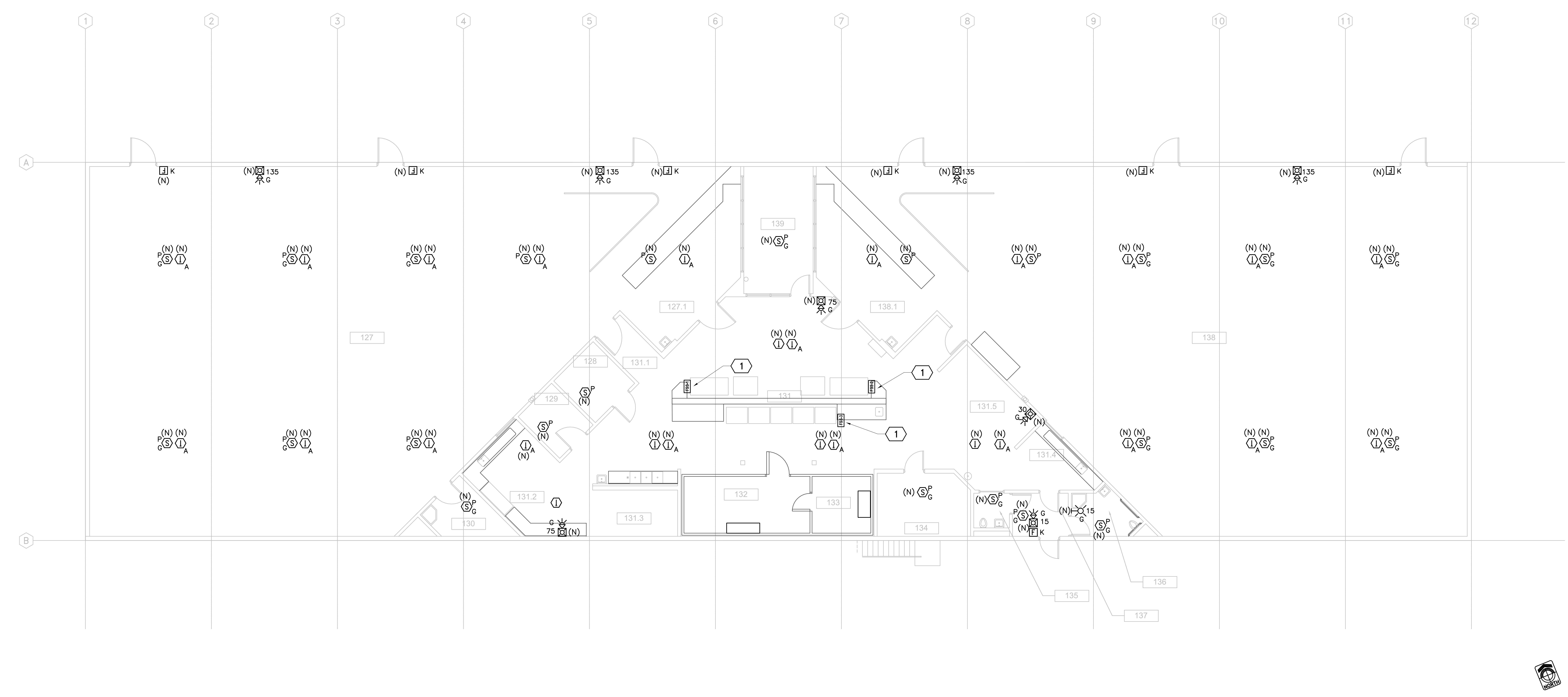

FIRE ALARM NEW PLAN — FIRST FLOOR 1/8"= 1'-0" 1

KEYNOTES

1 PROVIDE FIRE ALARM SYSTEM CONNECTION TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL. SEE SYSTEM DIAGRAM 2/E4.3 FOR MORE INFORMATION.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. PROVIDE AN ENTIRELY NEW FIRE DETECTION AND ALARM SYSTEM.
3. SEE 1/E3.4 FOR FIRE ALARM CONTROL PANEL LOCATION.
4. SEE SHEET E4.3 FOR DETAILS AND DIAGRAMS.

ROOMS IDENTIFICATION

ROOM NO.	ROOM NAME
127	DINING
127.1	SERVICE
128	HOT STORAGE
129	TRASH HOLD
130	JANITOR
131	FOOD PREP. AREA
131.1	PASSAGE
131.2	DISH WASH
131.3	STORAGE
131.4	BREAKDOWN
131.5	CART HOLD
132	COOLER
133	FREEZER
134	DRY STORAGE
135	INMATE TOILET
136	STAFF TOILET
137	VESTIBULE
138	DINING
138.1	SERVICE
139	OFFICE

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FIRE ALARM NEW PLAN - FIRST FLOOR

FACILITY III A KITCHEN REPAIRS

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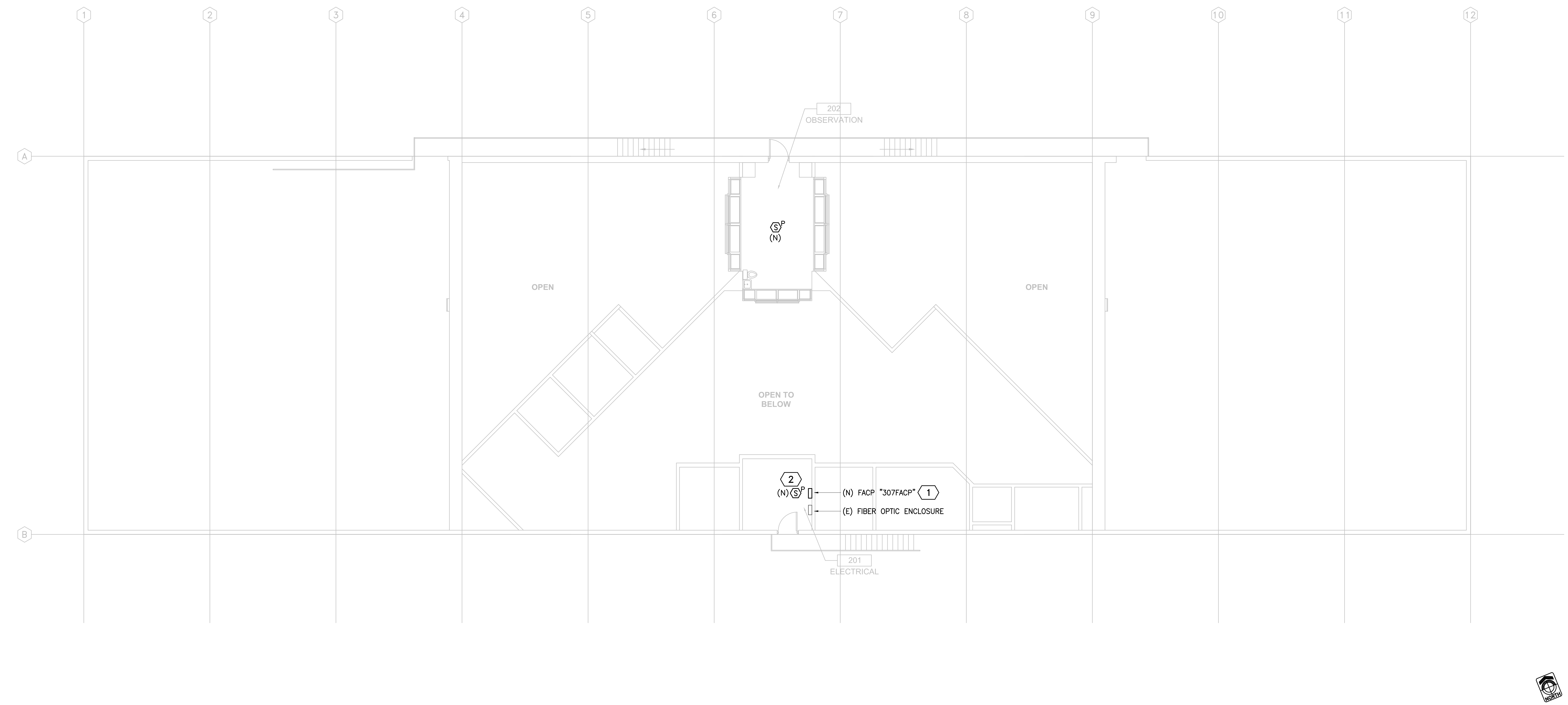

FIRE ALARM NEW PLAN – SECOND FLOOR

1/8"= 1'-0"

1

KEYNOTES

1. NEW FIRE ALARM CONTROL PANEL. SEE THE SYSTEM DIAGRAM 2/E4.3 FOR MORE INFORMATION.
2. INSTALL THE SMOKE DETECTOR WITHIN 3 FEET OF THE FIRE ALARM CONTROL PANEL.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. PROVIDE AN ENTIRELY NEW FIRE DETECTION AND ALARM SYSTEM.
4. SEE SHEET E4.3 FOR DETAILS AND DIAGRAMS.

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FIRE ALARM NEW PLAN - SECOND FLOOR

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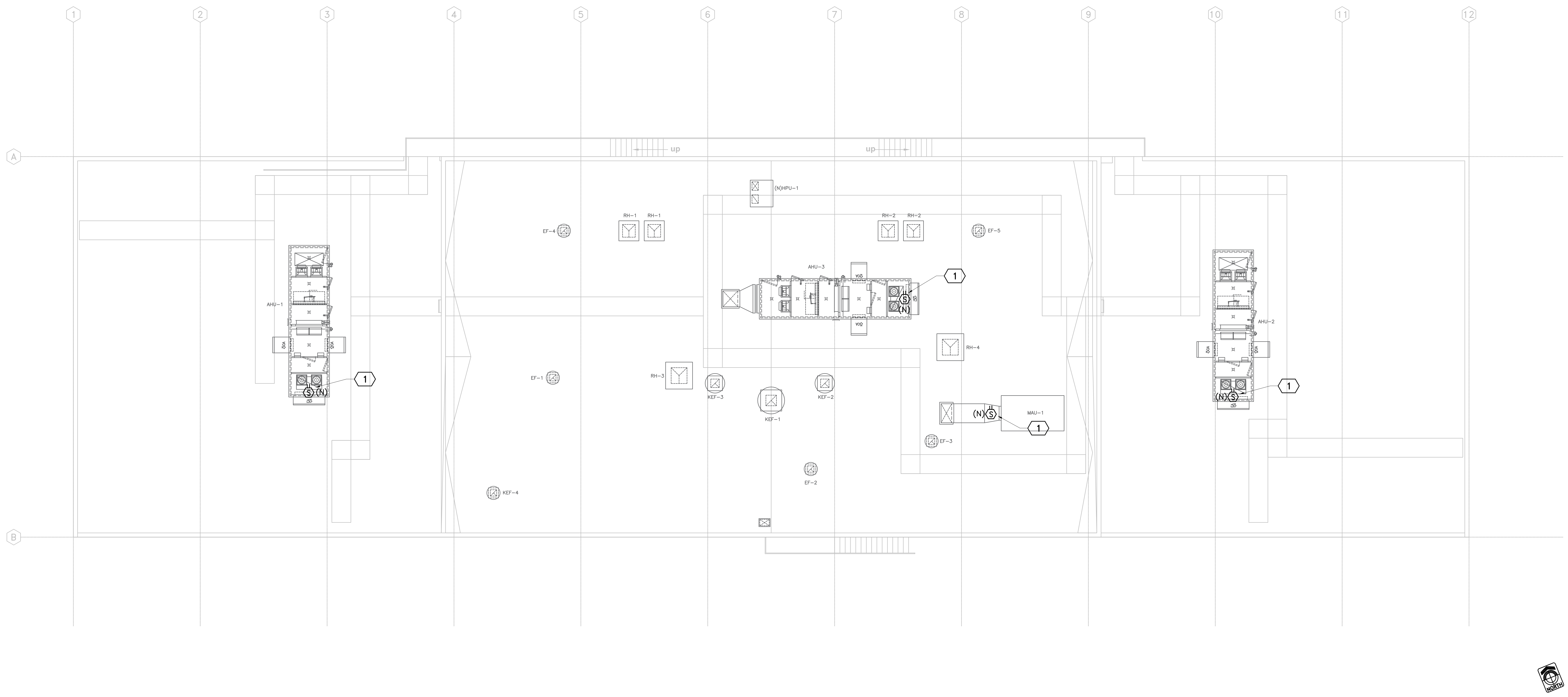

FIRE ALARM NEW PLAN – ROOF

1/8"= 1'-0"

1

KEYNOTES

1. PROVIDE DUCT SMOKE DETECTOR. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. CONNECT THE DUCT SMOKE DETECTORS TO THE NEW FIRE ALARM SYSTEM. SEE SYSTEM DIAGRAM 2/E4.3 FOR MORE INFORMATION. DETECTOR INSTALLATION AND CONNECTION TO THE MECHANICAL UNIT BY MECHANICAL CONTRACTOR.

GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM DRAWINGS ARE PROVIDED SCHEMATICALLY FOR ILLUSTRATING THE SYSTEM DESIGN INTENT, AND ARE FOR REFERENCE ONLY. SEE DELEGATED DESIGN SUBMITTAL NOTE ON SHEET E0.0 FOR MORE INFORMATION.
2. PROVIDE AN ENTIRELY NEW FIRE DETECTION AND ALARM SYSTEM.
3. SEE 1/E3.4 FOR FIRE ALARM CONTROL PANEL LOCATION.
4. SEE SHEET E4.3 FOR DETAILS AND DIAGRAMS.

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FIRE ALARM NEW PLAN - ROOF

FACILITY III A KITCHEN REPAIRS

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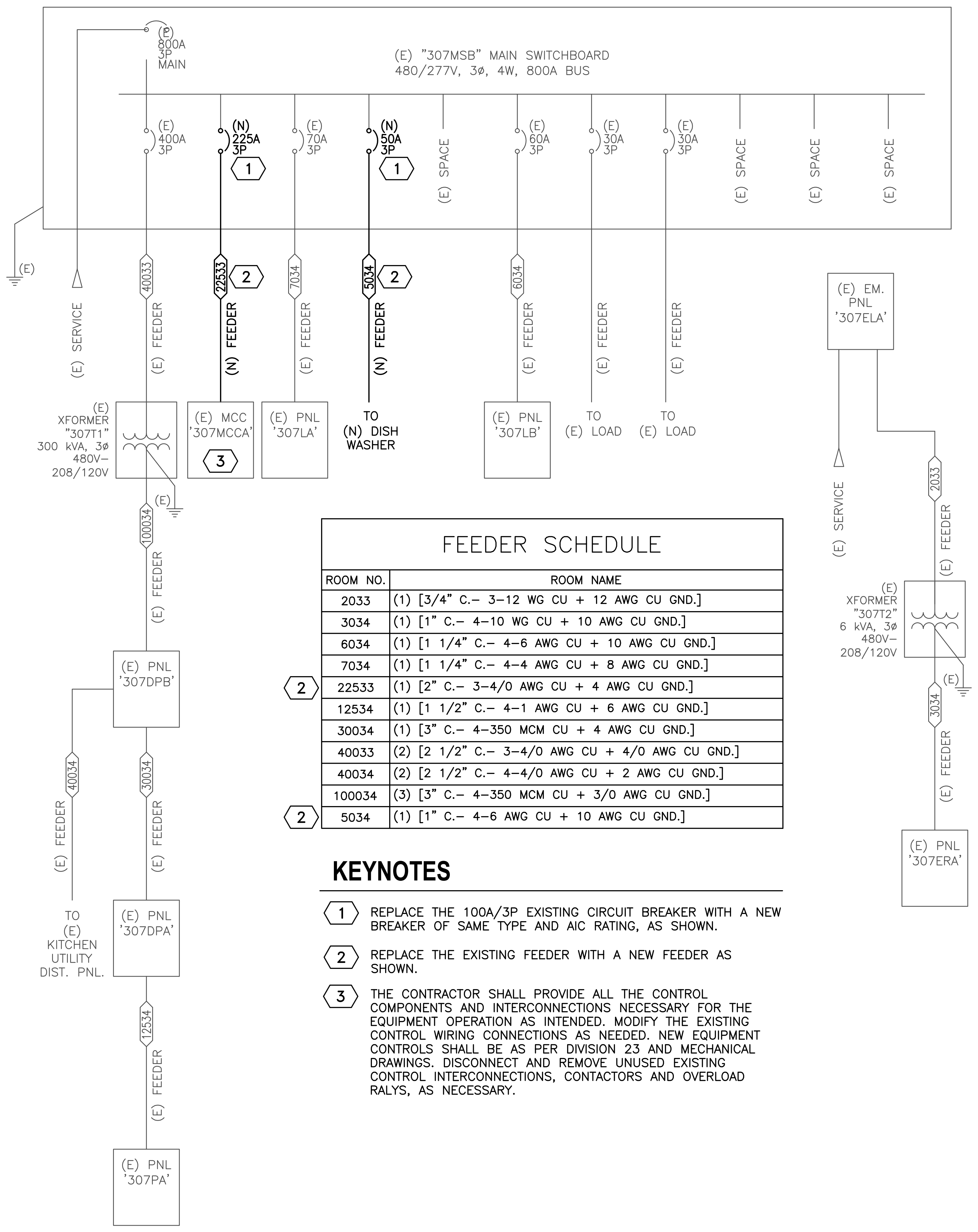
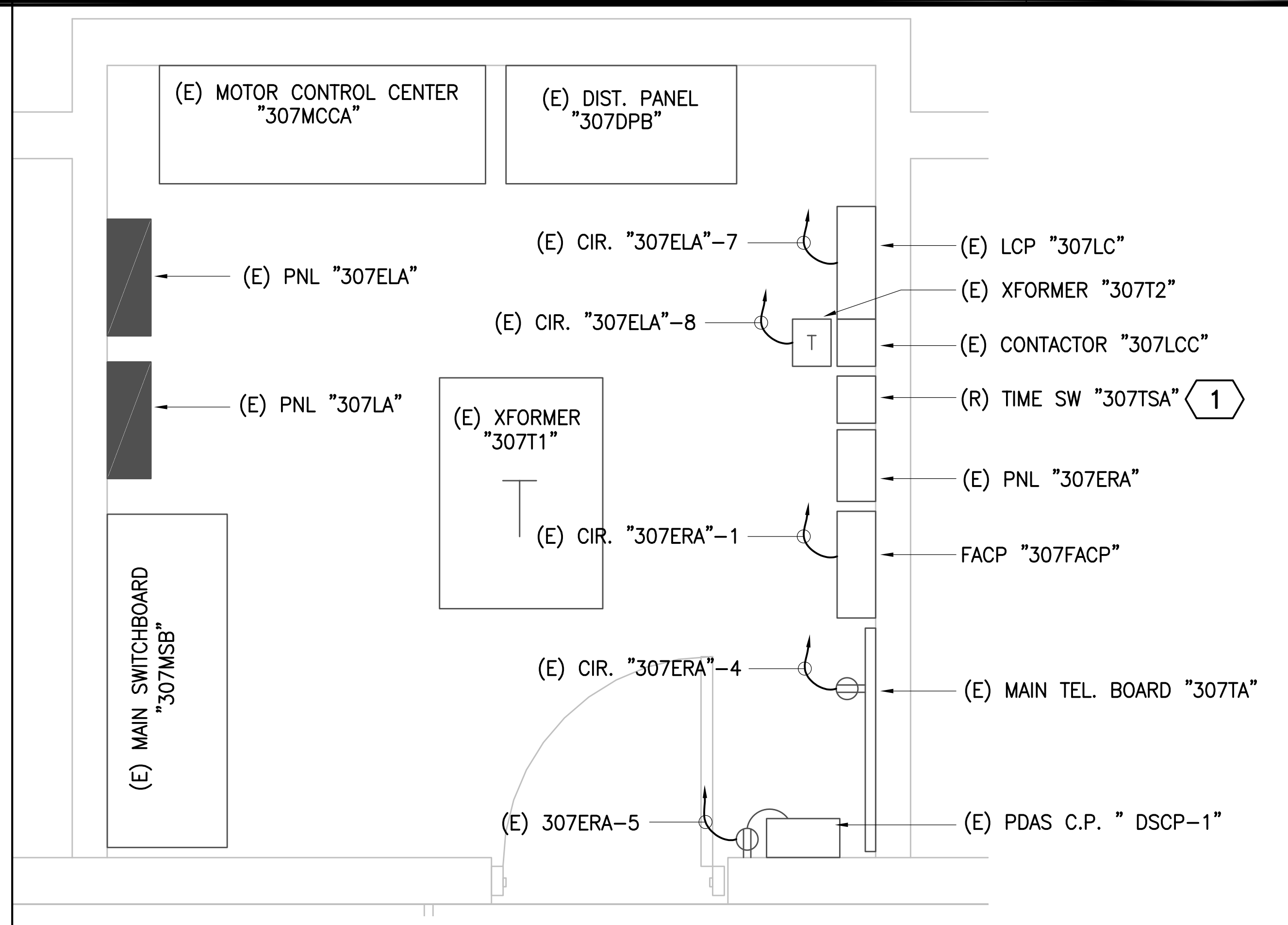


FEEDER SCHEDULE	
ROOM NO.	ROOM NAME
2033	(1) [3/4" C.– 3–12 WG CU + 12 AWG CU GND.]
3034	(1) [1" C.– 4–10 WG CU + 10 AWG CU GND.]
6034	(1) [1 1/4" C.– 4–6 AWG CU + 10 AWG CU GND.]
7034	(1) [1 1/4" C.– 4–4 AWG CU + 8 AWG CU GND.]
2 22533	(1) [2" C.– 3–4/0 AWG CU + 4 AWG CU GND.]
12534	(1) [1 1/2" C.– 4–1 AWG CU + 6 AWG CU GND.]
30034	(1) [3" C.– 4–350 MCM CU + 4 AWG CU GND.]
40033	(2) [2 1/2" C.– 3–4/0 AWG CU + 4/0 AWG CU GND.]
40034	(2) [2 1/2" C.– 4–4/0 AWG CU + 2 AWG CU GND.]
100034	(3) [3" C.– 4–350 MCM CU + 3/0 AWG CU GND.]
2 5034	(1) [1" C.– 4–6 AWG CU + 10 AWG CU GND.]

KEYNOTES

1. REPLACE THE 100A/3P EXISTING CIRCUIT BREAKER WITH A NEW BREAKER OF SAME TYPE AND AIC RATING, AS SHOWN.
2. REPLACE THE EXISTING FEEDER WITH A NEW FEEDER AS SHOWN.
3. THE CONTRACTOR SHALL PROVIDE ALL THE CONTROL COMPONENTS AND INTERCONNECTIONS NECESSARY FOR THE EQUIPMENT OPERATION AS INTENDED. MODIFY THE EXISTING CONTROL WIRING CONNECTIONS AS NEEDED. NEW EQUIPMENT CONTROLS SHALL BE AS PER DIVISION 23 AND MECHANICAL DRAWINGS. DISCONNECT AND REMOVE UNUSED EXISTING CONTROL INTERCONNECTIONS, CONTACTORS AND OVERLOAD RALYS, AS NECESSARY.

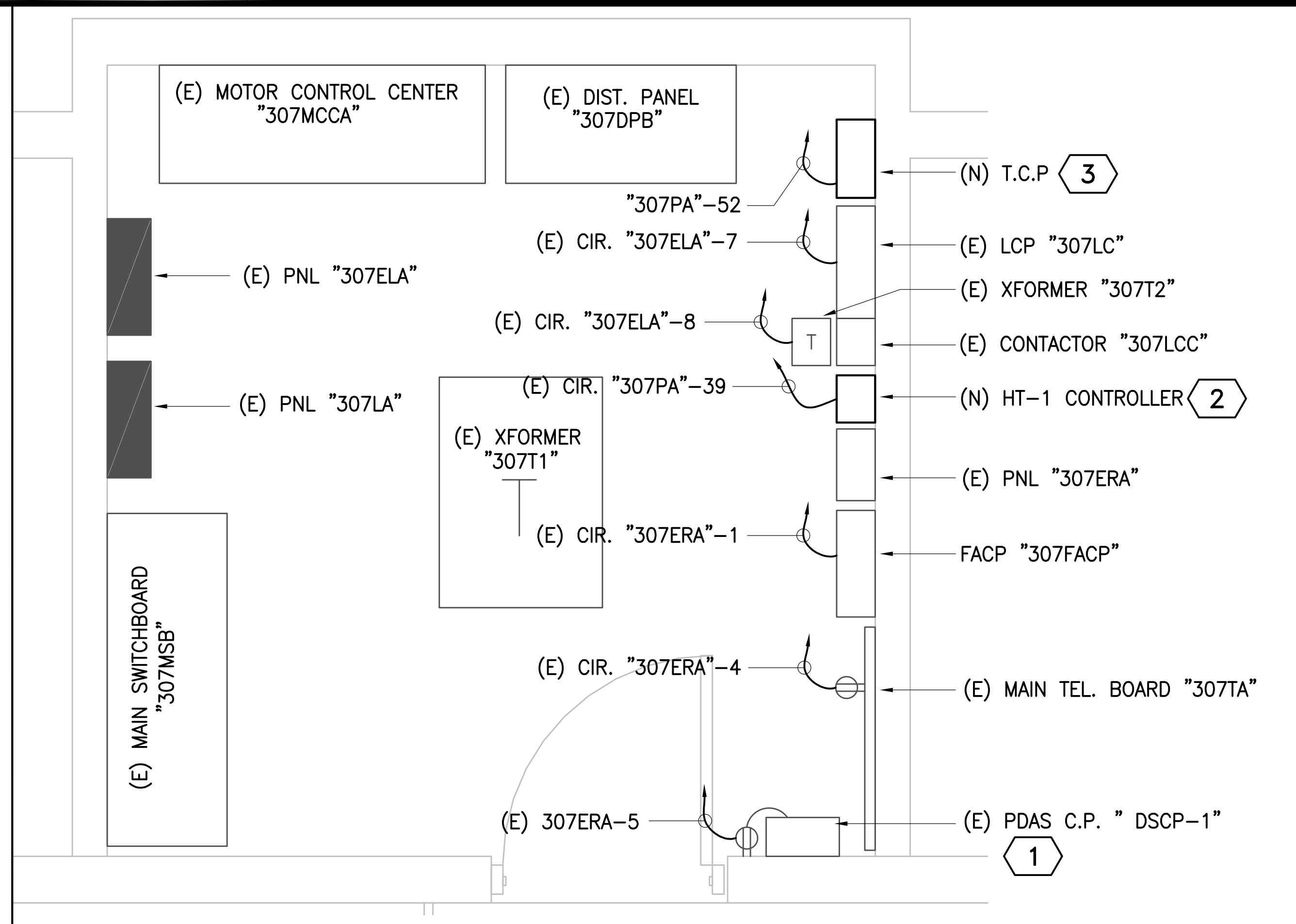
POWER ONE LINE DIAGRAM NTS 1



KEYNOTES

1. EXISTING TIME SWITCH TO BE DISCONNECTED AND REMOVED. REMOVE THE CONTROL CIRCUIT WIRES AND CONDUITS AS POSSIBLE. EXISTING POWER CIRCUIT TO BE USED FOR NEW HEAT TRACE CONTROLLER. SEE KEYNOTE 2, DETAIL 3/E4.0.

ELECTRICAL ROOM – DEMO PLAN 1/2"= 1'-0" 2



KEYNOTES

1. EXISTING PERSONAL DURESS ALARM SYSTEM CONTROL PANEL. TEST AND VERIFY OPERABILITY AND FUNCTIONALITY. REPLACE, RE–CONNECT DAMAGED PARTS, AND TEST THE SYSTEM FUNCTIONALITY.
2. PROVIDE 120V POWER TO NEW HEAT TRACE CONTROLLER. SEE PLUMBING DRAWINGS FOR MORE INFORMATION. USE EXISTING CIRCUIT FEEDING REMOVED TIME SWITCH. SEE KEYNOTE 1, DETAIL 2/E4.0.
3. PROVIDE 120V POWER TO NEW T.C.P. SEE MECHANICAL DRAWINGS DRAWINGS FOR MORE INFORMATION.

ELECTRICAL ROOM – NEW PLAN 1/2"= 1'-0" 3

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ELECTRICAL DETAILS
FACILITY III A KITCHEN REPAIRS

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System No. W-L-1054

WL 1054

Classified by
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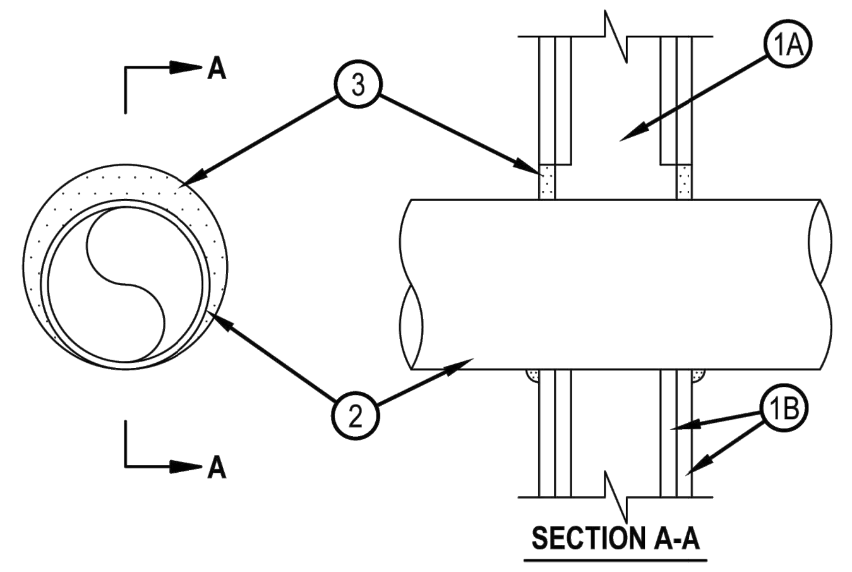
to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   - B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

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System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   - A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   - C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   - D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   - E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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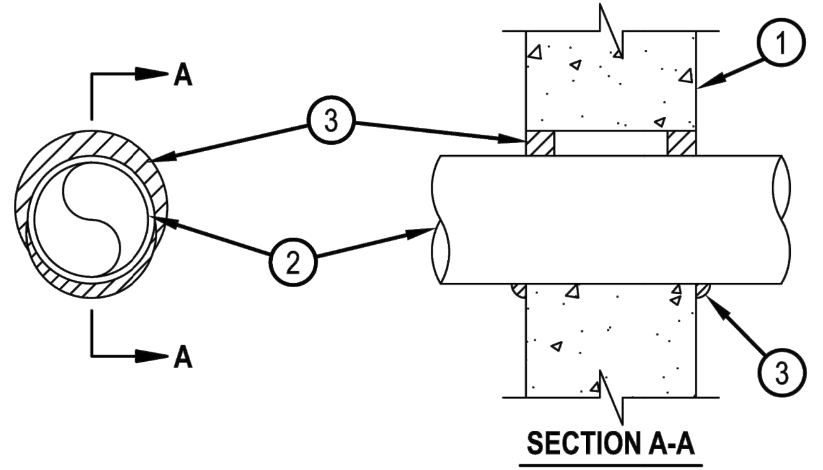
FIRE STOPPING DETAIL NTS 1

System No. W-J-1226

WJ 1226

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2, 3 and 4 Hr (See Item 3)	F Ratings — 1, 2, 3 and 4 Hr (See Item 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft	FH Ratings — 1, 2, 3 and 4 Hr (See Item 3)
L Rating At 400 F — 4 CFM/Sq Ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/Sq Ft
	L Rating At 400 F — 4 CFM/Sq Ft



1. Wall Assembly — Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 5-3/4 in. (146 mm).

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tube to be rigidly supported on both sides of wall assembly.
   - A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   - C. Conduit — Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit.
   - D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic conduit.
   - E. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   - F. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material — Sealant* — Fill material applied within annulus, flush with both surfaces of wall. Type and thickness of sealant is dependent on F and FH Ratings as indicated in Table below. An additional 1/2 in. (13 mm) diameter bead of sealant applied at penetrant/gypsum board interface at point contact location on both surfaces of wall.

   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE, CP 606 Sealant or FS-ONE MAX Intumescent Sealant

F, FH Ratings hr	Sealant Type	Sealant Thickness, In. (mm)
1, 2	FS-ONE or CP 606	5/8 (16)
3	FS-ONE or CP 606	1 (25)
4	FS-ONE	1 (25)

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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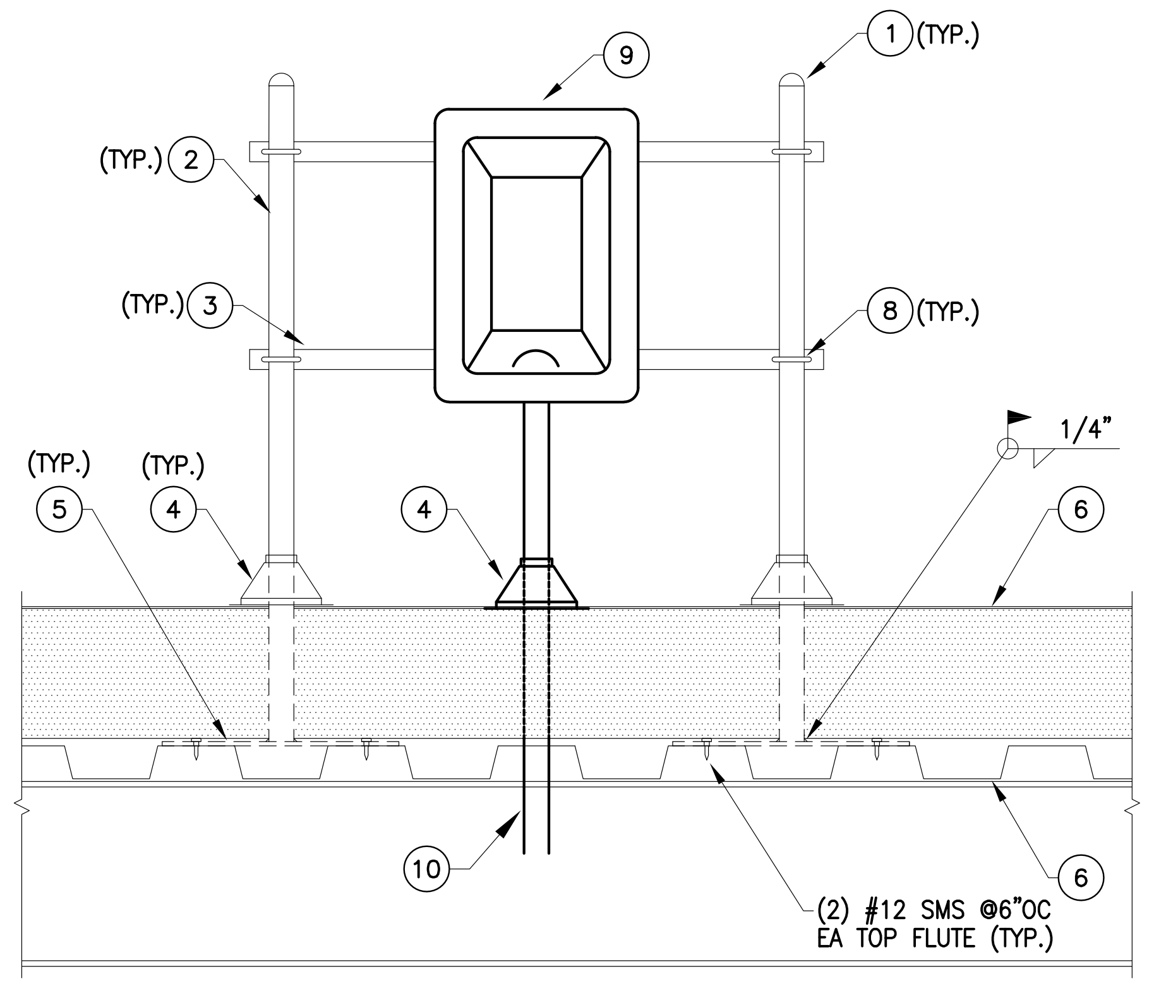
Underwriters Laboratories, Inc.
January 21, 2015

FIRE STOPPING DETAIL NTS 2

1. STEEL PIPE CAP, ASTM 234 SAME DIAMETER/SCHEDULE AS PIPE.
2. 1" STEEL PIPE, ASTM A53, GRADE B, SCH. 40. LENGTH AS REQUIRED.
3. P1000T UNISTRUT. LENGTH AS REQUIRED.
4. FLASHING. SEE ARCHITECTURAL DRAWINGS.
5. MIN. 8x8x1/4" STEEL BASE PLATE.
6. (E) ROOF–MEMBRANE AND RIGID INSULATION.
7. (E) METAL DECK OVER STEEL ROOF FRAMING.
8. 3/8" GALV. U–BOLT, LOCKWASHER AND NUT AROUND PIPE THRU ANGLE, TYP.
9. ELECTRICAL DEVICE.
10. ELECTRICAL CONDUIT.



ELECTRICAL DEVICE ON ROOF NTS 3

CDCR
CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

**OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY**
06/29/25
24-3165
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

**CALIFORNIA DEPARTMENT OF
CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW**
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

NASIM MOHAMMADI
No. E 23082

NASIM MOHAMMADI
SENIOR ELECTRICAL ENGINEER

ALI KAZEMI

ALI KAZEMI
SUPERVISING ELECTRICAL ENGINEER

COR
24-014

ELECTRICAL DETAILS

FACILITY III A KITCHEN REPAIRS

CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024

SHEET NUMBER
E4.1
OF # SHEETS V3

10/9/2024 12:27:06 PM

PANEL : (E) 307MSB Voltage: 480/277V_3PH _4W
LOCATION : ELECTRICAL ROOM 201 AIC = VERIFY
MAIN : 800A MCB ENCLOSURE TYPE : NEMA 1
BUS: 800A MOUNTING : FREE STANDING

POLE NO.	C.B. AMP/P	LOAD	KVA
1	400A/3	(E) 307DPB VIA (E) 307T1	173.98
2	[1]225/3	(E) MCCA	114.11
3	70/3	(E) LA	20.34
4	50/3	(N) DISH WASHER MACHINE- RM 131.2	31.51
5		(E) SPACE	
6	60/3	(E) LB	10.04
7	30/3	(E) LOAD	1.50
8	30/3	(E) LOAD	1.50
9		(E) SPACE	
10		(E) SPACE	
11		(E) SPACE	
		CONNECTED KVA	352.98
LOAD SUMMARY (KVA)			
	CONTINOUS LOADS KVA		352.98
	NON-CONTINUOUS LOADS KVA		0.00
		TOTAL LOAD DEMAND kVA	441.22
		TOTAL LOAD DEMAND LOAD AMPS	530.72

NOTES:

[1] RELPACE (E) BREAKER. MACTH TYPE AND AIC.

PANEL : (E) 307MCCA Voltage: 480/277V_3PH _4W
LOCATION : ELECTRICAL ROOM 201 AIC = VERIFY
MAIN : 600A MLO [1] ENCLOSURE TYPE : NEMA 1
BUS: 600A MOUNTING : FREE STANDING

POLE NO.	C.B. AMP/P	LOAD	KVA
1	[2] 50A/3	(N) AHU-1	31.07
2	15/3	SPARE	
3	[2] 50A/3	(N) AHU-2	31.07
4	15/3	SPARE	
5	[2] 45A/3	(N) AHU-3	26.69
6	15/3	SPARE	
7	30/3	(N) MAU-1	7.15
8	15/3	SPARE	
9	15/3	(N) KEF-1	3.99
10	15/3	(N) KEF-2	3.99
11	15/3	(N) KEF-3	6.32
12	15/3	(N) HWP-1	3.82
13		(E) SPACE	
14		(E) SPACE	
15		(E) SPACE	
16		(E) SPACE	
17		(E) SPACE	
18		(E) SPACE	
		CONNECTED KVA	114.11
LOAD SUMMARY (KVA)			
	CONTINOUS LOADS KVA		114.11
	NON-CONTINUOUS LOADS KVA		0.00
		TOTAL LOAD DEMAND kVA	142.63
		TOTAL LOAD DEMAND LOAD AMPS	171.57

NOTES:

[1] (N) 225A/3P MAIN BREAKER IN PANEL "307MSB".

[2] RELPACE (E) BREAKER. MACTH TYPE AND AIC.

PANEL (E) 307LA Voltage: 480/277V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : ELEC ROOM 201 MAIN : 100A MLO [1] BUS : 100A MOUNTING : SURFACE

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
1	20/1	(E) LTS- EXTERIOR	0.65	1.46			0.81	LTS- RM 131-131.5	20/1	2
3	20/1	LTS- RM 127	0.43		0.94		0.51	LTS- RM 138	20/1	4
5	20/1	LTS- RM 127	0.51			0.94	0.43	LTS- RM 138	20/1	6
7	20/1	LTS- RM 128-130, 134-137	0.29	0.29				(E) SPACE		8
9		(E) SPACE			0.00			(E) SPACE		10
11		(E) SPACE				0.00		(E) SPACE		12
13	20/3	SPARE		0.00				SPARE	20/3	14
15	|	-			0.00			-	|	16
17	|	-				0.00		-	|	18
19	20/3	SPARE		5.57			5.57	(N) HPU-1- ROOF	[2] 25/3	20
21	|	-			5.57		5.57	-	|	22
23	|	-				5.57	5.57	-	|	24
25		(E) SPACE		0.00				(E) SPACE		26
27		(E) SPACE			0.00			(E) SPACE		28
29		(E) SPACE				0.00		(E) SPACE		30

	A	B	C
CONNECTED KVA PER PHASE	7.3	6.5	6.5
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	20.3	125%	25.4
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	20.3		25.43
TOTAL LOAD DEMAND LOAD AMPS			30.59

NOTES :

[1] (E) 70A/3P MAIN BREAKER IN PANEL "307MSB".

[2] RELPACE (E) BREAKER. MACTH TYPE AND AIC.

PANEL : (E) 307DPB Voltage: 208/120V_3PH _4W
LOCATION : ELECTRICAL ROOM 201 AIC = VERIFY
MAIN : 1000A MCB ENCLOSURE TYPE : NEMA 1
BUS; 1000A MOUNTING : FREE STANDING

POLE NO.	C.B. AMP/P	LOAD	KVA
1	300A/3	(E) PANEL DPA	81.75
2		(E) SPACE	
3		(E) SPACE	
4		(E) SPACE	
5	400A/3	(E) KITCHEN EQUIPMENT	92.23
6		(E) SPACE	
7		(E) SPACE	
8		(E) SPACE	
9		(E) SPACE	
10		(E) SPACE	
		CONNECTED KVA	173.98
LOAD SUMMARY (KVA)			
	CONTINOUS LOADS KVA		173.98
	NON-CONTINUOUS LOADS KVA		0.00
		TOTAL LOAD DEMAND kVA	217.47
		TOTAL LOAD DEMAND LOAD AMPS	603.66

NOTES:

PANEL (E) 307LB Voltage: 480/277V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : CORRIDOOR 131.1 MAIN : 100A MLO [1] BUS : 100A MOUNTING : FLUSH

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
1	15/3	(N) FLY FAN- RM 138	0.56	1.12			0.56	(N) FLY FAN- RM 138	15/3	2
3	|	-	0.56		1.12		0.56	-	|	4
5	|	-	0.56			1.12	0.56	-	|	6
7	15/3	(N) FLY FAN- RM 138	0.56	1.12			0.56	(N) FLY FAN- RM 127	15/3	8
9	|	-	0.56		1.12		0.56	-	|	10
11	|	-	0.56			1.12	0.56	-	|	12
13	15/3	(N) FLY FAN- RM 127	0.56	1.12			0.56	(N) FLY FAN- RM 127	15/3	14
15	|	-	0.56		1.12		0.56	-	|	16
17	|	-	0.56			1.12	0.56	-	|	18
19		(E) SPACE		0.00				(E) SPACE		20
21		(E) SPACE			0.00			(E) SPACE		22
23		(E) SPACE				0.00		(E) SPACE		24
25		(E) SPACE		0.00				(E) SPACE		26
27		(E) SPACE			0.00			(E) SPACE		28
29		(E) SPACE				0.00		(E) SPACE		30

	A	B	C
CONNECTED KVA PER PHASE	3.3	3.3	3.3
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	10.0	125%	12.5
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	10.0		12.55
TOTAL LOAD DEMAND LOAD AMPS			15.09

NOTES :

[1] (E) 60A/3P MAIN BREAKER IN PANEL "307MSB".

PANEL (E) 307DPA Voltage: 208/120V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : CORRIDOOR 131.1 MAIN : 400A MLO [1] BUS : 400A MOUNTING : FLUSH

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
-	-	(E) 60A 3PH RECEPTACLE ON PANEL	0	11.14			11.14	(E) PANEL "307PA"	125/3	SUB FEED
			0		13.45		13.45			
			0			10.96	10.96			
1	20/3	(E) E20b HOT WELLS- RM 138.1	1.60	2.10			0.50	(E) E8 TR. COMP.- RM 129	20/2	2
3	|	-	1.60		2.10		0.50	-	|	4
5	|	-	1.60			2.03	0.43	(N) EU-1 CLR EVAP.- RM 132	[2] 15/1	6
7	20/3	(E) E7 DISPOSER- RM 131.2	0.72	2.31			1.59	(N) CU-1 CLR COND.- EXT.	[2] 15/3	8
9	|	-	0.72		2.31		1.59	-	|	10
11	|	-	0.72			2.31	1.59	-	|	12
13	20/3	(E) E11 DISPOSER- RM 131.4	0.72	3.78			3.06	(N) CU-2 FZR COND.- EXT.	[2] 30/3	14
15	|	-	0.72		3.78		3.06	-	|	16
17	|	-	0.72			3.78	3.06	-	|	18
19	20/3	(E) E10 DISPOSER- RM 131.1	0.72	0.84			0.12	(N) EU-2 FZR EVAP.- RM 133	[2] 15/2	20
21	|	-	0.72		0.84		0.12		|	22
23	|	-	0.72			2.32	1.60	(E) E20a HOT WELLS- RM 127.1	20/3	24
25	20/2	(E) E12 ICE MAKER- RM 131.5	1.25	2.85			1.60	-	|	26
27	|	-	1.25		2.85		1.60	-	|	28
29	30/2	(E) E18a SERV. CNTR- RM 127.1	2.50			5.00	2.50	(E) E18b SERV. CNTR- RM 138.1	30/2	30
31	|	-	2.50	5.00			2.50	-	|	32
33	20/2	(E) SPARE			1.00		1.00	(N) AHU-1,2,3, MAU-1 LTS & REC	[2] 20/1	34
35	|	-				0.25	0.25	(N) MAU-1 CONTROLLER	[2] 20/1	36
37		(E) SPACE		0.25			0.25	(N) AHU-1 CONTROLLER	[3] 20/1	38
39		(E) SPACE (DON'T USE)			0.25		0.25	(N) AHU-2 CONTROLLER	[3] 20/1	40
41		(E) SPACE (DON'T USE)				0.25	0.25	(N) AHU-3 CONTROLLER	[3] 20/1	42

	A	B	C
CONNECTED KVA PER PHASE	28.3	26.6	26.9
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	81.8	125%	102.2
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	81.8		102.19
TOTAL LOAD DEMAND LOAD AMPS			283.66

NOTES :

[1] (E) 300A/3P MAIN BREAKER IN PANEL "307DPB".

[2] RELPACE (E) BREAKER. MACTH TYPE AND AIC.

[3] PROVIDE NEW BREAKER. MACTH TYPE AND AIC.

PANEL (E) 307PA Voltage: 208/120V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : CORRIDOOR 131.1 MAIN : 225A MLO [1] BUS : 225A MOUNTING : FLUSH

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
1	20/1	(E) REC- RM 127, 127.1	0.90	1.44			0.54	(E) REC- RM 139, 202	20/1	2
3	20/1	(E) REC- RM 138, 138.1	0.90		1.44		0.54	(E) REC- RM 139, 202	20/1	4
5	20/1	(E) E1a HREATED CAB.- RM 127.1	1.50			1.86	0.36	(E) REC- RM 201	20/1	6
7	20/1	(E) E19a SERV. CNTR- RM 127.1	1.00	2.50			1.50	(E) E1b HEATED CAB- RM 138.1	20/1	8
9	20/1	(E) REC- RM 127.1, 131	0.54		1.54		1.00	(E) E19b SERV. CNTR- RM 138.1	20/1	10
11	20/1	(E) REC- RM 127.1	0.50			1.04	0.54	(E) REC- RM 138.1, 131	20/1	12
13	20/1	(E) REC- RM 131-131.4	0.36	0.72			0.36	(E) REC- RM 131-136	20/1	14
15	20/1	(E) E21a COFFEE URN- RM 127	1.00		1.91		0.91	(N) REF-4,5- ROOF	[2] 15/1	16
17	20/1	(E) E21b COFFEE URN- RM 138	1.00			1.50	0.50	(E) EX. HOOD DAMPER	20/1	18
19	20/1	(E) E2 LTS,HTR,ALARM- RM 132	0.50	1.00			0.50	(E) EX. HOOD LIGHTS	20/1	20
21	20/1	(E) E3 LTS,HTR,ALARM- RM 133	0.50		1.50		1.00	(E) E13a PREP CNTR- RM 131	20/1	22
23	20/1	(E) LOAD	0.50			1.86	1.36	(E) E15 FRIDGE- RM 131	20/1	24
25	20/1	(E) LOAD	0.50	1.50			1.00	(E) E13a PREP CNTR- RM 131	20/1	26
27	[2] 15/1	(N) REF-1,3- ROOF	0.91		2.75		1.84	(N) FLY FAN-1_ RM 137	20/1	28
29	[2] 15/1	(N) REF-2- ROOF	0.46			0.71	0.25	(E) WH PUMP- OUTSIDE	20/1	30
31	20/1	(E) REC- ROOF	0.72	0.72				[3] SPARE	20/1	32
33	20/1	(E) E13b PREP CNTR- RM 131	1.00		1.00			[3] SPARE	20/1	34
35	20/1	(E) E13b PREP CNTR- RM 131	1.00			1.50	0.50	(E) REC- RM 138.1	20/1	36
37	20/	(E) LOAD	0.50	1.00			0.50	(E) LOAD	20/1	38
39	20/1	(N) HT-1 CONTROLLER- RM 201	0.81		1.31		0.50	(E) LOAD	20/1	40
41	20/1	(E) LOAD	0.50			1.00	0.50	(E) LOAD	20/1	42
43	20/1	(E) LOAD	0.50	1.00			0.50	(E) LOAD	20/1	44
45	20/1	(E) LOAD	0.50		1.00		0.50	(E) LOAD	20/1	46
47	20/1	(E) LOAD	0.50			1.00	0.50	(E) LOAD	20/1	48
49	20/3	(E) LOAD	0.50	1.26			0.76	(N) KEF-4- ROOF	[4]20/1	50
51	|	-	0.50		1.00		0.50	(N) T.C.P- RM 201	[4]20/1	52
53	|	-	0.50			0.50		(E) SPACE		54
55		(E) SPACE		0.00				(E) SPACE		56
57		(E) SPACE			0.00			(E) SPACE		58
59		(E) SPACE				0.00		(E) SPACE		60

	A	B	C
CONNECTED KVA PER PHASE	11.1	13.5	11.0
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	35.6	125%	44.4
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	35.6		44.44
TOTAL LOAD DEMAND LOAD AMPS			123.36

NOTES :

[1] (E) 125A/3P MAIN BREAKER IN PANEL "307DPA".

[2] RELPACE (E) BREAKER. MACTH TYPE AND AIC.

[3] DEMO'ED CIRCUIT TO DEMO'ED PUMPS

[4] PROVIDE NEW BREAKER. MACTH TYPE AND AIC.

PANEL (E) 307ELA Voltage: 480/277V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : ELEC ROOM 201 MAIN : 30A MCB BUS : 100A MOUNTING : SURFACE

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
1	20/1	EM LTS- RM 131-131.5, 201	0.71	1.35			0.64	EM LTS- RM 127	20/1	2
3	20/1	EM LTS- RM 138, 139, 202	1.00		1.64		0.65	EM LTS & SIGNS- RM 127	20/1	4
5	20/1	EM LTS & SIGNS- RM 138, 131.4, 13	0.65			0.65		(E) SPACE		6
7	20/1	(E) LCP- RM 201	0.10	0.10				(E) SPACE		8
9		(E) SPACE			0.00			(E) SPACE		10
11		(E) SPACE				0.00		(E) SPACE		12
13	20/3	(E) 307T2- RM 201	1.50	1.50				(E) SPACE		14
15	|	-	2.00		2.00			(E) SPACE		16
17	|	-	2.00			2.00		(E) SPACE		18

	A	B	C
CONNECTED KVA PER PHASE	2.9	3.6	2.6
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	9.2	125%	11.6
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	9.2		11.55
TOTAL LOAD DEMAND LOAD AMPS			13.89

NOTES :

PANEL (E) 307ERA Voltage: 208/120V_3PH _4W AIC = VERIFY ENCLOSURE TYPE : NEMA 1
LOCATION : ELECTRICAL ROOM 201 MAIN : 30A MCB BUS : 100A MOUNTING : SURFACE

POLE NO.	C.B. AMP/P	LOAD	KVA PER PHASE KVA	A	B	C	KVA	LOAD	C.B. AMP/P	POLE NO.
1	[1] 20/1	(N) FACP- RM 201	0.50	1.00			0.50	(E) LOAD	20/1	2
3	20/1	(N) FSS-3 PANEL- RM 131	0.50		1.00		0.50	(E) REC TEL- RM 201	20/1	4
5	20/1	(E) REC PDS- RM 201	0.50			1.00	0.50	(N) FSS-1,2 PANEL- RM 131	20/1	6
7		(E) SPACE		0.50			0.50	(E) LOAD	20/3	8
9	20/1	(E) LOAD	0.50		1.00		0.50	-	|	10
11	20/1	(E) LOAD	0.50			1.00	0.50	-	|	12

	A	B	C
CONNECTED KVA PER PHASE	1.5	2.0	2.0
LOAD SUMMARY (KVA)	CONN.	FACTOR	DEMAND
CONTINOUS LOADS	5.5	125%	6.9
NON-CONTINUOUS LOADS	0.0	100%	0.0
TOTAL LOAD DEMAND kVA	5.5		6.88
TOTAL LOAD DEMAND LOAD AMPS			19.08

NOTES :

[1] MARK RED. EQUIP WITH LOCK ON DEVICE.

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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ARCHITECTURE & ENGINEERING

OFFICE OF THE STATE FIRE MARSHAL
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06/29/25
24-3165
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CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
ACCESS COMPLIANCE REVIEW
#1336 6/30/2025
CASp-491
APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS

No. E 23082
NASIM MOHAMMADI
SENIOR ELECTRICAL ENGINEER

ALI KAZEMI
ALI KAZEMI
SUPERVISING ELECTRICAL ENGINEER

COR
24-014

ELECTRICAL PANEL SCHEDULES
FACILITY III A KITCHEN REPAIRS
CALIFORNIA STATE PRISON CORCORAN
4001 KING AVE
CORCORAN, CALIFORNIA 93212

CAD FILE:
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REVISIONS		
REV.	DATE	DESCRIPTION

DATE: SEPTEMBER 20, 2024
SHEET NUMBER
E4.2
OF # SHEETS V3

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FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

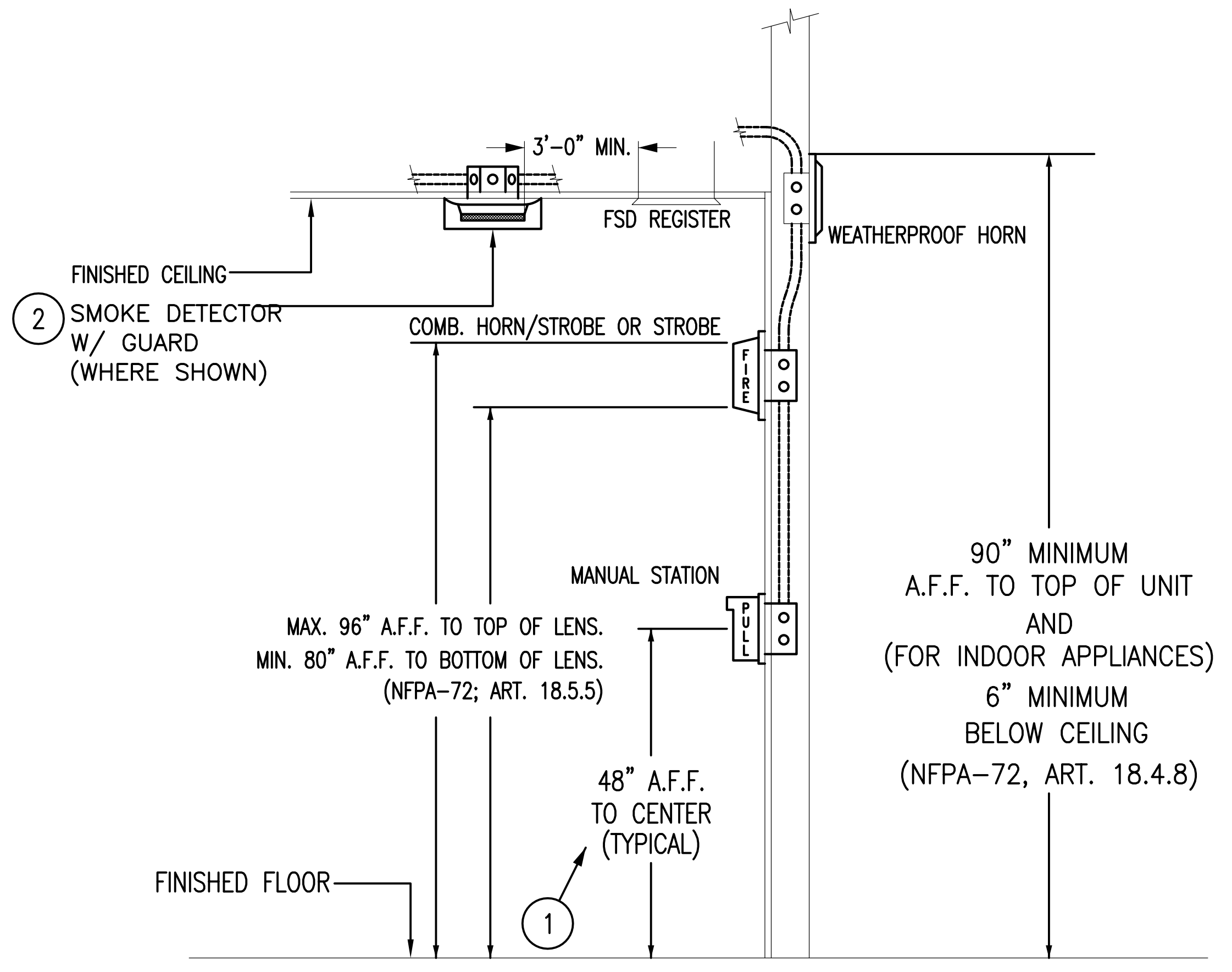
	SMOKE DETECTOR MOUNTED ABOVE FA CONTROL CABINETS	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	DUCT MOUNTED SMOKE DETECTOR FOR UNIT SHUTDOWN	DESIGNATED SMOKE DETECTOR(S) FOR FSD	MANUAL PULL STATIONS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM	SYSTEM EQUIPMENT MALFUNCTION
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (ALARM CAUSING)	●	●	●		●	●	●	
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (SUPERVISORY CAUSING)				●				
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (TROUBLE CAUSING)								●
ACTIVATE NOTIFICATION ALARM CIRCUITS	●	●	●		●	●	●	
SHUTDOWN MECHANICAL UNITS VIA RELAY ON DUCT SMOKE ALARM CONDITION				●				
CLOSE FIRE SMOKE DAMPERS VIA RELAY ON DUCT SMOKE ALARM CONDITION					●			
SHUTDOWN AIR SUPPLY TO THE KITCHEN							●	
SHUTDOWN POWER AND GAS SUPPLY TO KITCHEN EQUIPMENT							●	
TRANSMIT "ALARM" TO CENTRAL CONTROL MONITORING STATION	●	●	●		●	●	●	
TRANSMIT "SUPERVISORY" TO CENTRAL CONTROL MONITORING STATION				●				
TRANSMIT "TROUBLE" TO CENTRAL CONTROL MONITORING STATION								●
TRANSMIT "ALARM" TO FIRE HOUSE MONITORING STATION	●	●	●		●	●	●	
TRANSMIT "SUPERVISORY" TO FIRE HOUSE MONITORING STATION				●				
TRANSMIT "TROUBLE" TO FIRE HOUSE MONITORING STATION								●

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX NTS 1

NOTES:

① THE OPERABLE PART OF THE MANUAL STATION (KEY OPERATED) SHALL BE NOT LESS THAN 3-1/2 FT. AND NOT MORE THAN 4 FT. A.F.F. (NFPA-72; ART. 17.15.6)

② INITIATING DEVICES SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED.
WHERE GUARDS OR COVERS ARE EMPLOYED, THEY SHALL BE LISTED FOR USE WITH THE INITIATING DEVICE.
THE PROTECTION SHALL NOT PREVENT THE INITIATING DEVICE FROM ACHIEVING THE OBJECTIVES OF THE SYSTEM BY ADVERSELY AFFECTING THE USE, OPERATION, OR PERFORMANCE OF THE INITIATING DEVICE.
SITUATIONS EXIST WHERE SUPPLEMENTAL ENCLOSURES ARE NECESSARY TO PROTECT THE PHYSICAL INTEGRITY OF AN INITIATING DEVICE. PROTECTIVE ENCLOSURES SHOULD NOT INTERFERE WITH THE PERFORMANCE CHARACTERISTICS OF THE DEVICE. IF THE ENCLOSURE DEGRADES THE PERFORMANCE, METHODS SHOULD BE DETAILED IN THE MANUFACTURER'S PUBLISHED INSTRUCTIONS OF THE PROTECTION DEVICE THAT CLEARLY IDENTIFY THE DEGRADATION. IN SOME CASES, ADJUSTMENTS TO INITIATING DEVICE SENSITIVITY OR RANGE OF OPERATION ARE NECESSARY TO ENSURE THE OBJECTIVE AND PERFORMANCE OF THE SYSTEM.
2022 NFPA 72 WITH CALIFORNIA AMENDMENTS.


3'-0" MIN.
FSD REGISTER
WEATHERPROOF HORN
FINISHED CEILING
② SMOKE DETECTOR W/ GUARD (WHERE SHOWN)
COMB. HORN/STROBE OR STROBE
MANUAL STATION
MAX. 96" A.F.F. TO TOP OF LENS.
MIN. 80" A.F.F. TO BOTTOM OF LENS.
(NFPA-72; ART. 18.5.5)
90" MINIMUM A.F.F. TO TOP OF UNIT AND (FOR INDOOR APPLIANCES) 6" MINIMUM BELOW CEILING (NFPA-72, ART. 18.4.8)
48" A.F.F. TO CENTER (TYPICAL)
FINISHED FLOOR
①

FIRE ALARM DEVICE MOUNTING NTS 3

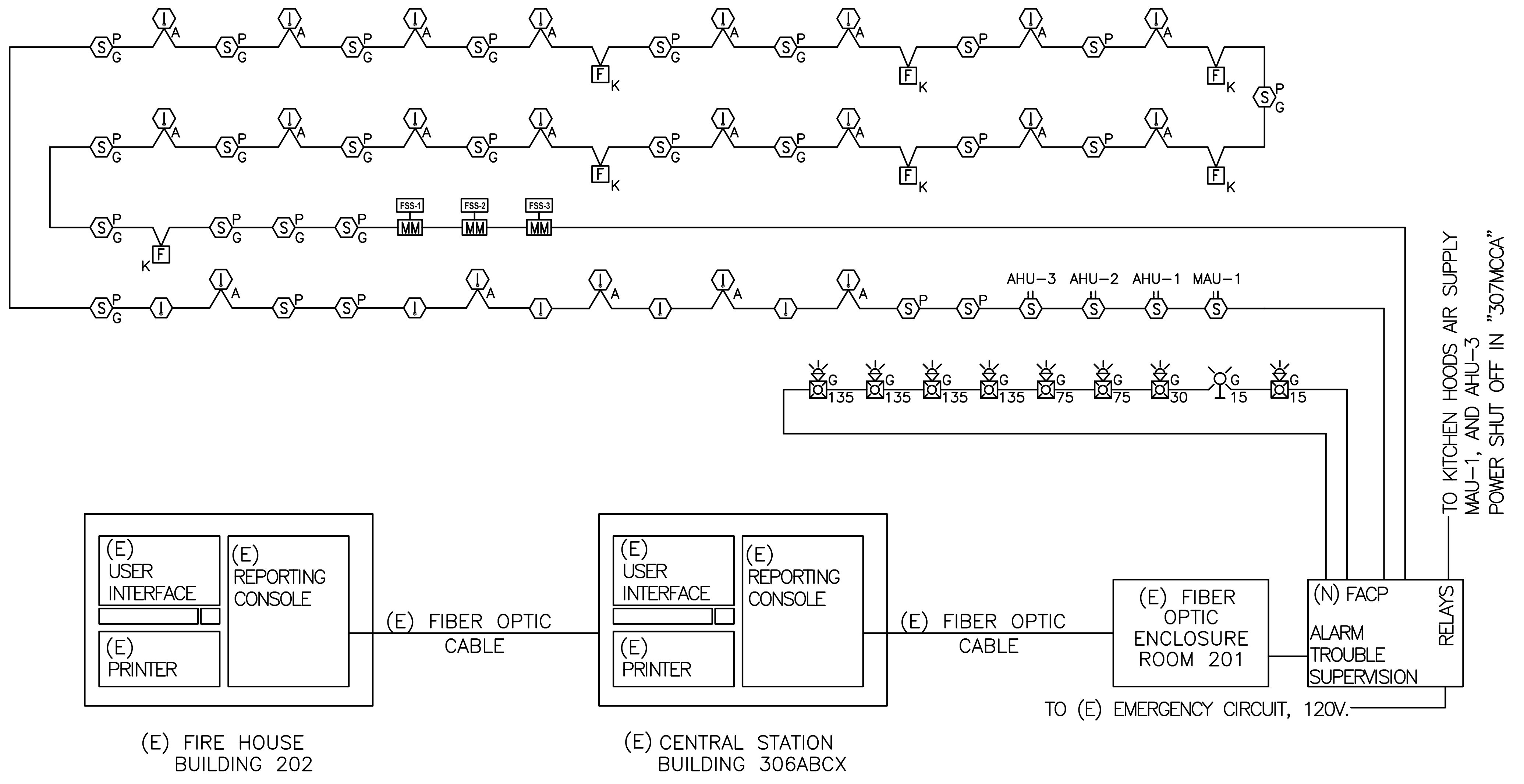
FIRE ALARM GENERAL NOTES

1. DEFERRED SUBMITTAL APPROVAL:
   ALL DEFERRED FIRE ALARM SYSTEMS SHOWN IN DOCUMENTS ESTABLISH DESIGN INTENT ARE SCHEMATIC AND FOR REFERENCE ONLY. THE CONTRACTOR IS TO PROVIDE COMPLETE DESIGN SUBMITTALS WITH JUSTIFICATION OF LIFE SAFETY ELEMENTS AND/OR SYSTEMS. PRIOR TO SUBMITTING TO THE OFFICE OF THE STATE FIRE MARSHAL, ALL SUBMITTALS SHALL BE AS FOLLOWS:
   a) SPECIALTY (CA LICENSED) ENGINEER MUST STAMP AND WET-SIGN DRAWINGS INCLUDING SUPPORTING CALCULATIONS.
   b) AFFIX SHOP DRAWING STAMP INDICATING COORDINATION BETWEEN THE DEFERRED SUBMITTAL AND APPROVED DRAWINGS IS COMPLETE.

   THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THAT STATE FIRE MARSHAL.
   APPROVAL FOR ELEMENTS OF THE DESIGN LISTED BELOW IS DEFERRED UNDER THE PROVISIONS OF 2022 CBC 107.3.4.1:
   - FIRE ALARM SYSTEMS

   ARCHITECT AND/OR ENGINEER OF RECORD: AFFIX SHOP DRAWING STAMP INDICATING THE SUBMITTAL HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN.

2. SCOPE OF WORKS:
   a) PROVIDE A COMPLETE NEW ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM TO PROTECT THE ENTIRE BUILDING IN CONFORMANCE WITH THE APPLICABLE CODES, STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, NFPA 101, NFPA 72 AND CDCR 2024 DESIGN CRITERIA GUIDELINES.
   b) FIRE ALARM CONTROL PANEL SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNALS TO THE CENTRAL STATION AND THE FIRE STATION. PROPER COMMUNICATION PATHS SHALL BE PROVIDED AS PER THE REFERENCED CODES, STANDARDS AND REGULATIONS. CENTRAL SUPERVISORY STATION IS LOCATED IN 306ABCX, CENTRAL CONTROL BUILDING.
   c) CONTRACTOR INSPECT AND VERIFY THE CENTRAL SUPERVISORY STATION SYSTEM AND ITS PROPER FUNCTIONALITY. COORDINATE AND PROVIDE ALL EQUIPMENT, SOFTWARE AND SERVICES NECESSARY TO ASSURE THE SYSTEM COMPATIBILITY AND PROPER FUNCTIONALITY.
   d) THE NEW FIRE ALARM SYSTEM, AS A MINIMUM, SHALL BE CONSISTING OF NEW FIRE ALARM CONTROL PANEL, DACT, AUTOMATIC AREA SMOKE DETECTION, HEAT DETECTION, MANUAL INITIATION DEVICES, AUDIO/VISUAL NOTIFICATION, HVAC DUCT SMOKE DETECTION, RELAY MODULES, MONITORING MODULES, INTERCONNECTION TO THE HVAC UNITS, FIRE SMOKE DAMPERS, KITCHEN HOOD FIRE SUPPRESSION SYSTEM, AND ETC., AS PER THE APPLICABLE CODES AND REGULATIONS. SEE DESIGN INTENT PLANS FOR MORE INFORMATION.
   e) FIRE ALARM SYSTEM SHALL BE INTERCONNECTED TO THE KITCHEN HOODS FIRE SUPPRESSION SYSTEM AS SHOWN ON THE PLANS AND THE SEQUENCE OF OPERATION MATRIX.


S P G
A
F K
FSS-1
FSS-2
FSS-3
MM
AHU-3
AHU-2
AHU-1
MAU-1
G 135
G 75
G 30
G 15
TO KITCHEN HOODS AIR SUPPLY MAU-1, AND AHU-3 POWER SHUT OFF IN "307MCCA"
(E) USER INTERFACE
(E) PRINTER
(E) REPORTING CONSOLE
(E) FIBER OPTIC CABLE
(E) FIRE HOUSE BUILDING 202
(E) CENTRAL STATION BUILDING 306ABCX
(E) FIBER OPTIC ENCLOSURE ROOM 201
(N) FACP
ALARM
TROUBLE
SUPERVISION
RELAYS
TO (E) EMERGENCY CIRCUIT, 120V.

NEW FIRE ALARM SCHEMATIC DIAGRAM NTS 2

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FIRE ALARM DETAILS
FACILITY III A KITCHEN REPAIRS

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OF # SHEETS V3