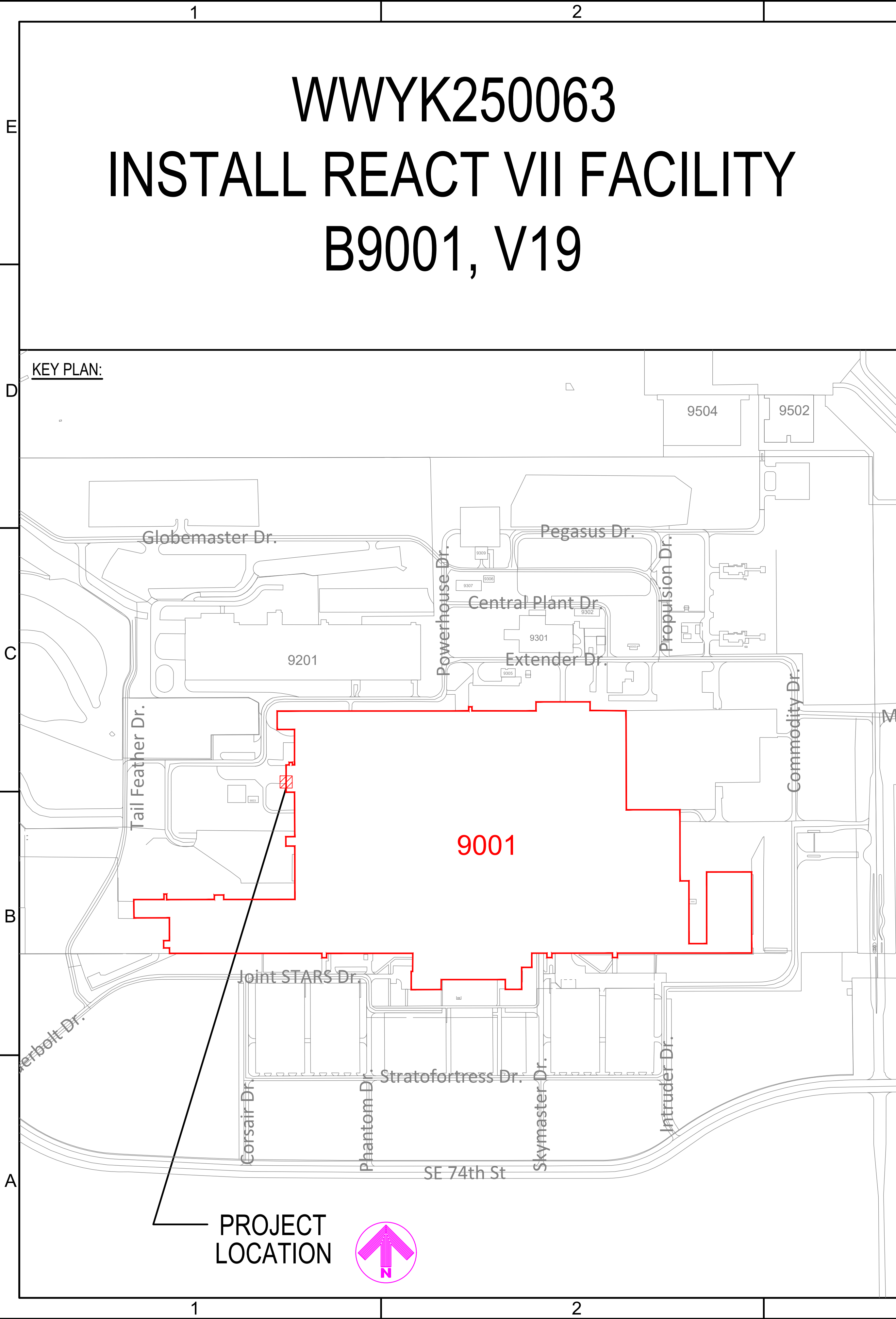




TINKER GATE
PASS & ID B6611

VANCE GATE

EAKER GATE

BASE CIVIL
ENGINEER
B400

CONTRACTING
B3

FIRE DEPARTMENT
B117

BASE
OPERATIONS
B240

HRUSKOCY
GATE

LANCER
GATE

LIBERATOR GATE

GOTT
GATE

TRUCK GATE

FUTURE
TRUCK GATE

PIAZZA GATE

HOPE GATE

LEGEND

CONTRACTOR
HAUL ROUTE

FUTURE
HAUL ROUTE

TINKER AFB, OK

VICINITY MAP

PROJECT
LOCATION

GENERAL NOTES:

1. BRAND NAMES: REFERENCE TO SPECIFIC BRAND NAMES OR COMPANIES IS FOR THE PURPOSE OF ESTABLISHING MINIMUM QUALITY STANDARDS, IDENTIFICATION AND GUIDANCE AND IS NOT INTENDED TO LIMIT SELECTION OF OTHER MANUFACTURERS THAT ARE EQUAL OR EXCEED THE SPECIFIED ITEMS IN TERMS OF PHYSICAL PROPERTIES, INCLUDING, COLOR RANGE, FINISH, DURABILITY, APPEARANCE, PERFORMANCE CHARACTERISTICS, AND OTHER FACTORS. OTHER PRODUCTS, MATERIALS, COLORS AND SYSTEMS, MAY BE SUBMITTED FOR EVALUATION AND APPROVAL/DISAPPROVAL BY THE CONTRACTING OFFICER.

2. THIS SET OF CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED AS A WHOLE IN THAT THE GENERAL CONTRACTOR AND ALL THE SUB-CONTRACTORS ARE RESPONSIBLE FOR THE INFORMATION PRESENTED ON ALL SHEETS ON THE SET OF DRAWINGS AND ALL SECTIONS OF THE SPECIFICATIONS.

3. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL CONSTRUCTION FENCING AND BARRICADES AS REQUIRED TO PROTECT CONSTRUCTION MATERIAL AND TO PREVENT ANY UNAUTHORIZED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE.

4. ANY DAMAGE TO THE EXISTING GROUNDS OR FACILITIES CAUSED BY CONSTRUCTION TRAFFIC OR ANY CONSTRUCTION OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE GOVERNMENT.

5. ALL WORK NOTED & LOCATED IN THESE DOCS SHALL BE UNDERSTOOD BY THE CONTRACTOR TO REQUIRE ALL NEW LABOR & MATERIALS UNLESS SPECIFICALLY NOTED TO BE "EXISTING" OR "BY OTHERS".

PROJECT DRAWING INDEX

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48	E-602	EASY POWER MODELS
49	FP-101	FIRE PROTECTION PLAN
50	FA-101	FIRE ALARM AND MASS NOTIFICATION PLAN

SIGNATURES

CORROSION ENGINEER: (CECE)	DATE:
CE OPERATIONS: (CECO)	DATE:
ZONE MANAGER:	DATE:
CONSTRUCTION MANAGEMENT: (CECE)	DATE:
FIRE DEPARTMENT	DATE:
SAFETY:	DATE:
INDUSTRIAL HYGIENE:	DATE:
ENVIRONMENTAL:	DATE:
ASBESTOS EVALUATION:	DATE:
COMMUNICATIONS: (COMM)	DATE:
USING AGENCY:	DATE:
REVIEWED BY:	DATE:
REVIEWED BY:	DATE:
DESIGN MANAGER: (CECE)	DATE:
CHIEF DESIGN BRANCH: (CECE)	DATE:
CHIEF ENGINEER DIR: (CECE)	DATE:
BASE CIVIL ENGINEER: (CE)	DATE:

AFMCC

AIR FORCE MATERIEL COMMAND

72 ABW CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063

INSTALL REACT VII FACILITY

B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION

ISSUE DATE: 7 OCT 25

DESIGN GROUP: TEPA-CSAG

DESIGNED BY: J LESTER

DRAWN BY: T KISER

CHECKED BY: CHIXON

Design File Location:
Engr\Design\2020s\2025\20250063\0_Support\0_3_Drawings\Model

SHEET TITLE

GENERAL NOTES
AND
VICINITY MAP

SHEET NUMBER

G-001

SHEET 01 OF

1		2		3		4		5	
SPRINKLER SYSTEM GENERAL NOTES: 1. INSTALL A NEW WET SPRINKLER SYSTEM, INCLUDING, DROP PIPING AND SPRINKLER HEADS AS INDICATED ON THE CONTRACT DOCUMENTS, AS EVIDENTLY INTENDED AND IN ACCORDANCE WITH NFPA 13, APPLICABLE ETL'S AND UFC 3-600-01. THE CONTRACTOR SHALL PROVIDE SPRINKLER HEADS, ESCUTCHEONS, PIPE, FITTINGS, AND HANGERS AS REQUIRED TO ACCOMPLISH THE FUNCTIONS INTENDED AND REQUIRED BY CODE. 2. COORDINATE WORK WITH THAT OF OTHER TRADES SO AS TO AVOID CONFLICTS. RESOLVE CONFLICTS THROUGH THE A/E PRIOR TO ROUGH-IN. FAILURE TO PROVIDE SUCH COORDINATION PRIOR TO WORK BEING INSTALLED SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR, AND MAY RESULT IN REJECTION OF THE WORK. 3. THE BUILDING SPRINKLER SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL SUPERVISE FIRE PROTECTION IMPAIRMENTS IN ACCORDANCE WITH UFC 3-601-02. 4. PROVIDE NEW MATERIALS, BEARING LABELS OR MARKING INDICATING THIRD PARTY TESTING AND APPROVAL, SUITABLE FOR THE APPLICATION INTENDED. 5. SUPPORT SPRINKLER PIPING BY MEANS OF ANCHORS, RODS, AND HANGERS, ETC., TO MAINTAIN ALIGNMENT AND PREVENT MOVEMENT. 6. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH GOVERNMENT PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING AROUND OCCUPANT SCHEDULE AS DETERMINED BY THE GOVERNMENT AND MAINTAIN MINIMUM IMPACT DUE TO CONSTRUCTION. 7. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A NICET LEVEL III IN WATER-BASED SYSTEMS LAYOUT. 8. SHOP DRAWINGS, CALCULATIONS, AND MATERIALS SUBMITTAL SHALL BE REVIEWED AND BEAR THE REVIEW STAMP OF A QUALIFIED FIRE PROTECTION ENGINEER AS PER UFC 3-600-01. FIRE ALARM AND MASS NOTIFICATION GENERAL NOTES: 1. PROVIDE COMPLETE OPERATING FIRE ALARM AND MASS NOTIFICATION SYSTEMS AS INDICATED ON THE CONTRACT DOCUMENTS,AS EVIDENTLY INTENDED AND IN ACCORDANCE WITH NFPA 70, NFPA 72, NFPA 90A, APPLICABLE ETL'S, TINKER FIRE PROTECTION STANDARD, UFC 4-010-05, UFC 3-600-01 AND UFC 4-021-01. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK, BUT DO NOT INCLUDE INTERCONNECTIONS BETWEEN OTHER SYSTEMS. THE CONTRACTOR SHALL PROVIDE CONDUIT, BACK BOXES, RACEWAY AND WIRING AS REQUIRED TO ACCOMPLISH THE FUNCTIONS INTENDED AND REQUIRED BY CODE. 2. COORDINATE WORK WITH THAT OF OTHER TRADES SO AS TO AVOID CONFLICTS. RESOLVE CONFLICTS THROUGH THE A/E PRIOR TO ROUGH-IN. FAILURE TO PROVIDE SUCH COORDINATION PRIOR TO WORK BEING INSTALLED SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR, AND MAY RESULT IN REJECTION OF THE WORK. 3. THE BUILDING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL SUPERVISE FIRE PROTECTION IMPAIRMENTS IN ACCORDANCE WITH UFC 3-601-02. NO PORTION OF THE BUILDING SHALL BE OCCUPIED UNTIL THE FIRE ALARM DEVICES HAVE BEEN INSTALLED AND PLACED IN SERVICE 4. PROVIDE NEW MATERIALS, BEARING LABELS OR MARKING INDICATING THIRD PARTY TESTING AND APPROVAL, SUITABLE FOR THE APPLICATION INTENDED. 5. INSTALL FIRE ALARM AND MASS NOTIFICATION CABLE IN ¾ INCH RED EMT METAL CONDUIT. FREE-RUN CABLE IS NOT PERMITTED. CONDUIT SHALL BE CONCEALED IN FINISHED SPACES, AND MAY BE INSTALLED EXPOSED IN UNFINISHED SPACES SUCH AS MECHANICAL AND ELECTRICAL ROOMS. INSTALL CONDUIT PERPENDICULAR OR PARALLEL TO THE BUILDING'S STRUCTURAL COMPONENTS. 6. INSTALL PULL AND JUNCTION BOXES AS REQUIRED TO MEET CODE AND INSTALLATION REQUIREMENTS. PULL AND JUNCTION BOXES SHALL BE CONCEALED IN FINISHED SPACES. COORDINATE WITH OTHER TRADES SO AS TO AVOID CONFLICTS. 7. SUPPORT CEILING MOUNTED BACK BOXES WITH "T" HANGERS OR EQUAL METHOD OF SUPPORT. BACK BOXES SHALL NOT BE SUPPORTED SOLELY BY CONDUIT. 8. IDENTIFY CONDUCTORS AT EACH JUNCTION BOX, OUTLET BOX, CABINET, PULL BOX, ETC., WITH VINYL HEAT SHRINK TAGS INDICATING PANEL AND CIRCUIT NUMBER, CONTROL WIRE IDENTIFICATION NUMBER, OR OTHER APPROPRIATE INFORMATION. 9. FASTEN AND SUPPORT CONDUIT AND BACK BOXES BY MEANS OF ANCHORS, RODS, HANGERS, ETC., TO MAINTAIN ALIGNMENT AND PREVENT MOVEMENT. 10. PERFORM WORK ON DE-ENERGIZED SYSTEMS ONLY TO PREVENT PERSONNEL INJURY AND POTENTIAL SYSTEM FAILURE. WHERE WORK ON EXISTING SYSTEMS SHALL REQUIRE INTERRUPTION OF ELECTRICAL SERVICE, TEMPORARY PROVISIONS ACCEPTABLE TO THE OWNER SHALL BE REQUIRED. 11. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH GOVERNMENT PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING AROUND OCCUPANT SCHEDULE AS DETERMINED BY THE GOVERNMENT AND MAINTAIN MINIMUM IMPACT DUE. 12. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A NICET LEVEL IV IN FIRE ALARM SYSTEMS. 13. SHOP DRAWINGS, CALCULATIONS, AND MATERIAL SUBMITTAL SHALL BE REVIEWED AND BEAR THE REVIEW STAMP OF A QUALIFIED FIRE PROTECTION ENGINEER AS PER UFC 3-600-01.									

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FIRE PROTECTION / LIFE SAFETY CODE ANALYSIS

REFERENCED CODES AND STANDARDS:

UNIFIED FACILITIES CRITERIA (UFC)

UFC 1-200-01 DOD BUILDING CODE, CHANGE 4, 17 DEC 2024.

UFC 1-200-02 HIGH PERFORMANCE AND SUSTAINABLE BUILDING REQUIREMENTS, CHANGE 2, 01 JUNE 2022.

UFC 1-300-02 UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS) FORMAT STANDARD, CHANGE 3, 18 MAY 2021.

UFC 3-101-01 ARCHITECTURE, CHANGE 4, 08 JAN 2024.

UFC 3-120-01 DESIGN: SIGN STANDARD, CHANGE 4, 01 FEB 2023.

UFC 3-120-10 INTERIOR DESIGN, CHANGE 2, 15 JUNE 2021.

UFC 3-201-01 CIVIL ENGINEERING, 20 DEC 2022.

UFC 3-301-01 STRUCTURAL ENGINEERING, CHANGE 3, 3 FEB 2025.

UFC 3-520-01 INTERIOR ELECTRICAL SYSTEMS, CHANGE 2, 12 APRIL 2021.

UFC 3-550-01 OPERATION AND MAINTENANCE: ELECTRICAL SAFETY, CHANGE 3, 15 MAY 2023.

UFC 3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES, CHANGE 6, 9 MAY 2021.

UFC 3-601-02 FIRE PROTECTION SYSTEMS INSPECTION, TESTING, AND MAINTENANCE, CHANGE 2, 18 APRIL 2025.

UFC 3-701-01 DOD FACILITIES PRICING GUIDE, CHANGE 5, 10 SEPT 2024.

UFC 3-730-01 PROGRAMMING COST ESTIMATES FOR MILITARY CONSTRUCTION, 01 MARCH 2024.

UFC 3-740-05 CONSTRUCTION COST ESTIMATING, 09 DEC 2022.

UFC 4-010-01 DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS, CHANGE 3, 24 MAY 2024.

UFC 4-021-01 DESIGN AND O&M: MASS NOTIFICATION SYSTEMS, CHANGE 1, JAN 2010.

UFC 4-021-02 ELECTRONIC SECURITY SYSTEMS, CHANGE 1, 11 SEPT 2019.

UFC 4-211-01 AIRCRAFT MAINTENANCE HANGARS, CHANGE 3, 20 APRIL 2021.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2022 EDITION

NFPA 13 STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLERS, 2025 EDITION

NFPA 70 NATIONAL ELECTRIC CODE, 2023 EDITION

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2025 EDITION

NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2025 EDITION

NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 2024 EDITION

NFPA 101 LIFE SAFETY CODE, 2024 EDITION.

NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS, 2024 EDITION

NFPA 241 STANDARD FOR SAFEGUARDING DURING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, 2022 EDITION

NFPA 400 HAZARDOUS MATERIALS CODE, 2025 EDITION

NFPA 704 STANDARD SYSTEM FOR THE IDENTIFICATION OF THE HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE, 2022 EDITION

OTHER REFERENCES

INTERNATIONAL CODE COUNCIL, INTERNATIONAL BUILDING CODE (IBC), 2024 EDITION (AS AMENDED BY UFC 1-200-01)

ARCHITECTURAL BARRIERS ACT (ABA) STANDARDS, 2015 EDITION

APPLICATION HIERARCHY

WHERE DISCREPANCIES BETWEEN REGULATIONS AND TECHNICAL LETTERS OCCUR, THE FOLLOWING HIERARCHY WILL BE USED:
UFC'S OVER-RULE ALL CRITERIA; AIR FORCE ENGINEERING TECHNICAL LETTERS OVER-RULE NFPA STANDARDS.
ONLY THE PORTIONS OF INTERNATIONAL BUILDING CODE CORRESPONDING TO REFERENCED SECTIONS OF IBC, PER UFC 1-200-01 APPLY.
NFPA 409 ONLY APPLICABLE WHEN REFERENCED BY UFC 4-211-01, CHAPTER 3-3.1.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF CONSTRUCTING A 1,696 SF REACT VII WHITE HOUSE STRUCTURE WITHIN THE EXISTING BUILDING 9001 AT TINKER AIR FORCE BASE, OKLAHOMA.

IEBC - ALTERATION LEVEL 2:

AN ALTERATION - LEVEL 2 INCLUDES THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

NFPA 101 - RECONSTRUCTION:

THE RECONFIGURATION OF A SPACE THAT AFFECTS AN EXIT OR A CORRIDOR SHARED BY MORE THAN ONE OCCUPANT SPACE; OR THE RECONFIGURATION OF A SPACE SUCH THAT THE REHABILITATION WORK AREA IS NOT PERMITTED TO BE OCCUPIED BECAUSE EXISTING MEANS OF EGRESS AND FIRE PROTECTION SYSTEMS, OR THEIR EQUIVALENT, ARE NOT IN PLACE OR CONTINUOUSLY MAINTAINED.

GENERAL REQUIREMENTS:

RECONSTRUCTION: REQUIRES NEWLY CONSTRUCTED ELEMENTS, COMPONENTS AND SYSTEMS TO COMPLY WITH NEW CONSTRUCTION REQUIREMENTS IN THIS UFC 3-600-01 AND NFPA 101 FOR NEW CONSTRUCTION. ADDITIONALLY, THE WORK MUST NOT MAKE THE BUILDING AREAS LOCATED OUTSIDE OF THE WORK AREA LESS CONFORMING WITH UFC 3-600-01 AND NFPA 101 THAN BEFORE THE MODIFICATION PROJECT WAS UNDERTAKEN.

BUILDING DESCRIPTION (BUILDING GENERAL INFORMATION)

BUILDING IS CONSTRUCTED USING TYPE IIB CONSTRUCTION IBC § 602 & TABLE 601

BUILDING IS FULLY PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM IBC § 903.3.1.1

USE AND OCCUPANCY CLASSIFICATION:

IBC CHAPTER 3 AND UFC 3-600-01 APPLY.

IBC APPLIES TO OCCUPANCY CLASSIFICATION AS IT RELATES TO BUILDING HEIGHT, BUILDING AREA, BUILDING SEPARATION AND OCCUPANCY SEPARATION.

IBC OCCUPANCY CLASSIFICATIONS - MIXED USE AND OCCUPANCY - NON-SEPARATED OCCUPANCY:

GROUP B BUSINESS IBC § 508.3

GROUP F-1 MODERATE HAZARD FACTORY INDUSTRIAL (MECHANICAL SHOPS) IBC § 304 (BUSINESS)

GROUP S-1 MODERATE-HAZARD STORAGE (STORAGE ROOMS) IBC § 306 (FACTORY INDUSTRIAL)
IBC § 311 (STORAGE)

NFPA 101 APPLIES TO OCCUPANCY CLASSIFICATION AS IT RELATES TO FIRE/SMOKE RESISTANCE RATING OF INTERIOR LOAD-BEARING PARTITIONS (OTHER THAN OCCUPANCY SEPARATION), INTERIOR FINISH, FIRE PROTECTION FEATURES AND MEANS OF EGRESS.

NFPA OCCUPANCY CLASSIFICATIONS - MIXED OCCUPANCIES:

BUSINESS NFPA 101 § 6.1.14.3

INDUSTRIAL USE NFPA 101 CHAPTER 38

STORAGE USE GENERAL PURPOSE (MECHANICAL SHOPS) NFPA 101 CHAPTER 40
ORDINARY-HAZARD (AIRCRAFT HANGAR) NFPA 101 CHAPTER 42

SPECIAL DETAILED REQUIREMENTS BASED ON USE:

USE UFC 3-600-01 CHAPTER 4 IN LIEU OF IBC CHAPTER 4.

HAZARDOUS MATERIALS AND HAZARDOUS WASTE

APPLIES TO MATERIAL STORAGE (RM S103C), AERO SHOP (RM S103)

HAZARDOUS MATERIALS: COMPLY WITH THE REQUIREMENTS OF NFPA 400.

FLAMMABLE/COMBUSTIBLE LIQUIDS: COMPLY WITH THE REQUIREMENTS OF NFPA 30.

THE MAXIMUM ALLOWABLE QUANTITY (MAQ) PER CONTROL AREA WITH AUTOMATIC SPRINKLER PROTECTION IS AS FOLLOWS:

CLASSIFICATION STORED ON PALLET OR OPEN SHELVES (GAL) STORED WITHIN FLAMMABLE LIQUID STORAGE CABINET (GAL)

CLASS IA 60 120

CLASS IB AND IC 240 480

CLASS IA, IB & IC COMBINED 240 480

CLASS II 240 480

CLASS IIIA 660 13,200

CLASS IIIB 26,400 52,800

NOTES:

THE VOLUME OF CLASS I, CLASS II AND IIIA LIQUIDS IN AN INDIVIDUAL STORAGE CABINET WILL NOT EXCEED 120 GAL. NFPA 30 § 9.5.1

THE MAXIMUM ALLOWABLE CONTAINER SIZE WILL COMPLY WITH NFPA 30, TABLE 9.4.3.

DETAILED CONSTRUCTION REQUIREMENTS APPLY (SEE FIRE AND SMOKE PROTECTION FEATURES).

WHERE INDIVIDUAL CONTAINERS EXCEED 10 GAL PROVIDE CURBS, SCUPPERS, DRAINS OR SUITABLE MEANS TO PREVENT FLOW FROM ADJACENT AREAS OF THE BUILDING.

DETAILED PROTECTION REQUIREMENTS APPLY (SEE FIRE PROTECTION SYSTEMS).

ELECTRICAL HAZARD CLASSIFICATION WILL BE CLASS I, DIVISION 2.

VENTILATION FOR DISPENSING AREAS WILL BE AT LEAST 1 CFM PER EACH 1 SF OF FLOOR AREA.

HAZARDOUS MATERIAL STORAGE ROOM IDENTIFICATION TO COMPLY WITH NFPA 704.

UFC 1-200-01 § 2-3
UFC 3-600-01 § 3-2

IBC § 508.3
IBC § 304 (BUSINESS)
IBC § 306 (FACTORY INDUSTRIAL)
IBC § 311 (STORAGE)

NFPA 101 § 6.1.14.3
NFPA 101 CHAPTER 38
NFPA 101 CHAPTER 40
NFPA 101 CHAPTER 42

UFC 1-200-01 § 2-4

UFC 3-600-01 § 4-16.1.1.1
UFC 3-600-01 § 4-16.1.1.2
NFPA 30, TABLE 9.6.1

NFPA 30 § 9.13.2

NFPA 30, TABLE 7.3.3
NFPA 30 § 16.5.5
UFC 3-600-01 § 4-16.2.3

GENERAL BUILDING HEIGHTS AND AREAS:

IBC CHAPTER 5 AND UFC 3-600-01 APPLY.

TYPE IIB CONSTRUCTION (IBC) - (000) PER NFPA 220 UFC 1-200-01 § 2-5
IBC § 602 & TABLE 601

BUILDING IS FULLY PROTECTED WITH AUTOMATIC SPRINKLERS.

ALLOWABLE GROSS SQUARE FEET OF BUILDING: UNLIMITED FOR SPRINKLERED, ONE-STORY BUILDING IBC § 507.4

ACTUAL TOTAL BUILDING AREA: 2.6 MILLION SF IBC § 502 BUILDING AREA DEFINITION

ALLOWABLE HEIGHT: UNLIMITED FOR FULLY SPRINKLED B, S-1 AND F-1 BUILDINGS IBC § 504.1 TABLE 504.3/504.4

ACTUAL BUILDING HEIGHT AND STORIES: 32 FT 5 IN AND 2 STORIES IBC § 502 BUILDING HEIGHT

TYPES OF CONSTRUCTION:

IBC CHAPTER 6 AND UFC 3-600-01 APPLY.

TYPE IIB CONSTRUCTION (IBC) - (000) PER NFPA 220 UFC 1-200-01 § 2-6
IBC § 602 & TABLE 601

REQUIRED STRUCTURAL ELEMENTS:

STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, AND TRUSSES): 0 HOUR

BEARING WALLS - EXTERIOR SEPARATION DISTANCE >30 FT: 0 HOUR

BEARING WALLS - INTERIOR: 0 HOUR IBC 601 & TABLE 602 ALL ALLOWABLE

NON-BEARING WALLS - EXTERIOR SEPARATION DISTANCE >30 FT: 0 HOUR COMBUSTIBLE MATERIALS AS DEFINED IN SECTION 603

NON-BEARING WALLS & PARTITIONS - INTERIOR: 0 HOUR

FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): 0 HOUR

ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): 0 HOUR

FIRE AND SMOKE PROTECTION FEATURES:

IBC CHAPTER 7 AND UFC 3-600-01 APPLY.

CONFORM TO THE REQUIREMENTS OF NFPA 101 CHAPTER 8, EXCEPT WHERE IBC CHAPTERS 5 AND 6 UFC 1-200-01 § 2-7
UFC 3-600-01 § 7-1

SPECIFICALLY REFERENCE IBC CHAPTER 7.

CONTROL AREA RATED SEPARATIONS (SEE LIFE SAFETY PLAN)

1 HOUR FIRE BARRIER SEPARATING FOR CONTROL AREA. UFC 1-200-01 §4-5.4, IBC 414

FIRE AND SMOKE DAMPERS

WHERE SMOKE BARRIERS ARE PENETRATED BY DUCT OR AIR TRANSFER OPENING, A SMOKE DAMPER DESIGNED AND TESTED IN ACCORDANCE WITH ANSI/UL555S WILL BE INSTALLED. NFPA 101 § 8.5.5.2.1

WHERE A SMOKE BARRIER IS ALSO CONSTRUCTED AS A FIRE BARRIER, A COMBINATION FIRE/SMOKE DAMPER DESIGNED AND TESTED IN ACCORDANCE WITH ANSI/UL 555 AND ANSI/UL555S. NFPA 101 § 8.5.5.2.2

PROTECTION FROM HAZARDS (SEE LIFE SAFETY PLAN)

A SMOKE PARTITION WILL BE PROVIDED TO SEPARATED AN AREA HAVING A DEGREE OF HAZARD GREATER THAN THAT

1		2		3		4		5	
E	D	C	B	A					
1		2		3		4		5	

SPECIAL REQUIREMENTS FOR FLAMMABLE LIQUID STORAGE AREAS: • PROVIDE AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 30, CHAPTER 16. • FOR ON-FLOOR AND SHELF STORAGE HEIGHT OF 6 FT, PROVIDE K5.6 FACTOR, STANDARD OR QUICK RESPONSE SPRINKLERS, HYDRAULICALLY DESIGNED FOR A MINIMUM DENSITY OF 0.19 GPM/SF OVER THE ROOM AREA OR 1,500 SF AREA, WHICH EVER IS LARGER. INCLUDE A 250 GPM HOSE STREAM ALLOWANCE FOR A DURATION OF 2 HOURS.			NFPA 30, TABLE 16.5.2.6
PORTABLE FIRE EXTINGUISHERS • GENERAL PURPOSE FIRE EXTINGUISHERS ARE NOT REQUIRED FOR FULLY SPRINKLERED BUILDINGS, EXCEPT FOR SPECIAL USES. • PORTABLE FIRE EXTINGUISHERS WILL BE LOCATED IN ACCORDANCE WITH NFPA 10. • EXTINGUISHERS FOR ELECTRONIC EQUIPMENT AREAS SPACES WILL BE SUITABLE FOR ELECTRONICS (EG: CLEAN AGENT). • RECESSED OR SEMI-RECESSED CABINETS TO BE PROVIDED IN FINISHED SPACES. • MECHANICAL ROOMS WILL HAVE BRACKET MOUNTED FIRE EXTINGUISHERS.			UFC 3-600-01 § 9-17.1 UFC 3-600-01 § 9-17.2.1 UFC 3-600-01 § 9-17.2.2 UFC 3-600-01 § 9-17.3.1 UFC 3-600-01 § 9-17.3.2
DOOR LEAF SWING DIRECTION • DOORS WILL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING MORE THAN 50 PERSONS. • DOORS FROM HANGAR BAYS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.			NFPA 101 § 7.2.1.4.2 (1) UFC 4-211-01 § 3-3.1.9
DOOR LEAF ENCROACHMENT • DOOR LEAVES SWINGING INTO THE MEANS OF EGRESS WILL LEAVE NOT LESS THAN ON HALF OF THE REQUIRED EGRESS WIDTH.			NFPA 101 § 7.2.1.4.3.1
MINIMUM WIDTH: • NOT LESS THAN 32" FOR ANY MEANS OF EGRESS IN NEW BUILDINGS • NOT LESS THAN 32" FOR DOOR CLEAR WIDTH IN NEW BUILDINGS • NOT LESS THAN 32" FOR DOOR CLEAR WIDTH IN NEW BUILDINGS			
OCCUPANCY LOAD FACTORS • BUSINESS USE: 150 SQ FT/PERSON GROSS FLOOR AREA • CONCENTRATED BUSINESS USE: 50 SQ FT/PERSON GROSS FLOOR AREA • STORAGE USE: 500 SQ FT/PERSON GROSS FLOOR AREA • SPECIAL PURPOSE INDUSTRIAL USE: 500 SQ FT/PERSON GROSS FLOOR AREA (GROUP S-1) • MECHANICAL/ELECTRICAL ROOMS: 500 SQ FT/PERSON GROSS FLOOR AREA			NFPA 101 TABLE 7.3.1.2 UFC 3-600-01, TABLE 10-1
REMOTENESS OF EXITS • MINIMUM DISTANCE SEPARATION BETWEEN EXITS AND EXIT ACCESS DOORS WILL BE NOT LESS THAN 1/3RD THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.			NFPA 101 § 7.5.1.3.3
TRAVEL DISTANCE TO AN EXIT • ASSEMBLY, (SPRINKLERED): 250 FT • BUSINESS, (SPRINKLERED): 300 FT • STORAGE, (SPRINKLERED): 400 FT (ORDINARY HAZARD) • INDUSTRIAL, (SPRINKLERED): 250 FT (GENERAL INDUSTRIAL) • SPECIAL PURPOSE INDUSTRIAL (SPRINKLERED): 400 FT			NFPA 101 § 12.2.6.2 (1) NFPA 101 § 38.2.6.3 NFPA 101 § 42.2.6 NFPA 101 § 40.2.5.1 NFPA 101 § 40.2.5.1
COMMON PATH OF TRAVEL • ASSEMBLY, SPRINKLERED: > 50 PERSONS, 20 FT; FOR ≤ 50 PERSONS 75 FT • BUSINESS, SPRINKLERED: 100 FT • STORAGE, SPRINKLERED: 100 FT, 75 FT SINGLE MEANS OF EGRESS (ORD-HAZ) • INDUSTRIAL, (SPRINKLERED): 100 FT (GENERAL INDUSTRIAL) • SPECIAL PURPOSE INDUSTRIAL (SPRINKLERED): 100 FT			NFPA 101 § 12.2.5.2 NFPA 101 § 38.2.5.2.1 NFPA 101 § 42.2.5 NFPA 101 § 40.2.5.1 NFPA 101 § 40.2.5.1
DEAD-END LIMITS • ASSEMBLY, SPRINKLERED: 20 FT • BUSINESS, SPRINKLERED: 50 FT • STORAGE, SPRINKLERED: 100 FT (ORDINARY HAZARD) • INDUSTRIAL, (SPRINKLERED): 50 FT (GENERAL INDUSTRIAL) • SPECIAL PURPOSE INDUSTRIAL (SPRINKLERED): 50 FT			NFPA 101 § 12.2.5.3 NFPA 101 § 38.2.5.3.1 NFPA 101 § 42.2.5 NFPA 101 § 40.2.5.1 NFPA 101 § 40.2.5.1
ILLUMINATION OF MEANS OF EGRESS • MINIMUM ILLUMINATION FOR MEANS OF EGRESS WILL BE AT LEAST 10 FC (MEASURED FROM WALKING SURFACE). • MINIMUM ILLUMINATION FOR FLOORS AND OTHER WALKING SURFACES WILL BE AT LEAST 1 FC.			NFPA 101 § 7.8.1.3 (1) NFPA 101 § 7.8.1.3 (2)
MARKING MEANS OF EGRESS • EXITS OTHER THAN MAIN EXTERIOR EXIT DOORS THAT ARE OBVIOUSLY AND CLEARLY IDENTIFIED AS EXITS, WILL BE MARKED BY APPROVED SIGNS. • ACCESS TO EXITS WILL BE MARKED BY APPROVED, READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH EXITS NOT READILY APPARENT TO OCCUPANTS. • A SIGN WITH DIRECTIONAL INDICATOR SHOWING DIRECTION OF TRAVEL WILL BE PLACED IN LOCATIONS WHERE DIRECTION OF TRAVEL TO REACH THE NEAREST EXIT IS NOT APPARENT. • EVERY EXIT OR DIRECTIONAL SIGN WILL BE ILLUMINATED BY A RELIABLE LIGHT SOURCE.			NFPA 101 § 7.10.1.2.1 NFPA 101 § 7.10.1.5.1 NFPA 101 § 7.10.2.1 NFPA 101 § 7.10.5.1

SPECIAL REQUIREMENTS FOR FLAMMABLE LIQUID STORAGE AREAS: • PROVIDE AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 30, CHAPTER 16. • FOR ON-FLOOR AND SHELF STORAGE HEIGHT OF 6 FT, PROVIDE K5.6 FACTOR, STANDARD OR QUICK RESPONSE SPRINKLERS, HYDRAULICALLY DESIGNED FOR A MINIMUM DENSITY OF 0.19 GPM/SF OVER THE ROOM AREA OR 1,500 SF AREA, WHICH EVER IS LARGER. INCLUDE A 250 GPM HOSE STREAM ALLOWANCE FOR A DURATION OF 2 HOURS.			NFPA 30, TABLE 16.5.2.6
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DOOR LEAF SWING DIRECTION • DOORS WILL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING MORE THAN 50 PERSONS. • DOORS FROM HANGAR BAYS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.			NFPA 101 § 7.2.1.4.2 (1) UFC 4-211-01 § 3.3.1.9
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COMMON PATH OF TRAVEL • ASSEMBLY, SPRINKLERED: > 50 PERSONS, 20 FT; FOR ≤ 50 PERSONS, 75 FT • BUSINESS, SPRINKLERED: 100 FT • STORAGE, SPRINKLERED: 100 FT, 75 FT SINGLE MEANS OF EGRESS (ORD-HAZ) • INDUSTRIAL, (SPRINKLERED): 100 FT (GENERAL INDUSTRIAL) • SPECIAL PURPOSE INDUSTRIAL (SPRINKLERED): 100 FT			NFPA 101 § 12.2.5.2 NFPA 101 § 38.2.5.2.1 NFPA 101 § 42.2.5 NFPA 101 § 40.2.5.1 NFPA 101 § 40.2.5.1
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AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE: 7 OCT 25	DESIGN GROUP: TEPA-CSAG	MARK	DATE
DESIGNED BY: T ERB	DRAWN BY: J MARTINEZ		
CHECKED BY: C HIXON	DESIGN FILE LOCATION: Eng\Design\2020s\2025\20250063\0_Support\0_3_Drawings\		

SHEET TITLE

GENERAL
CODE ANALYSIS

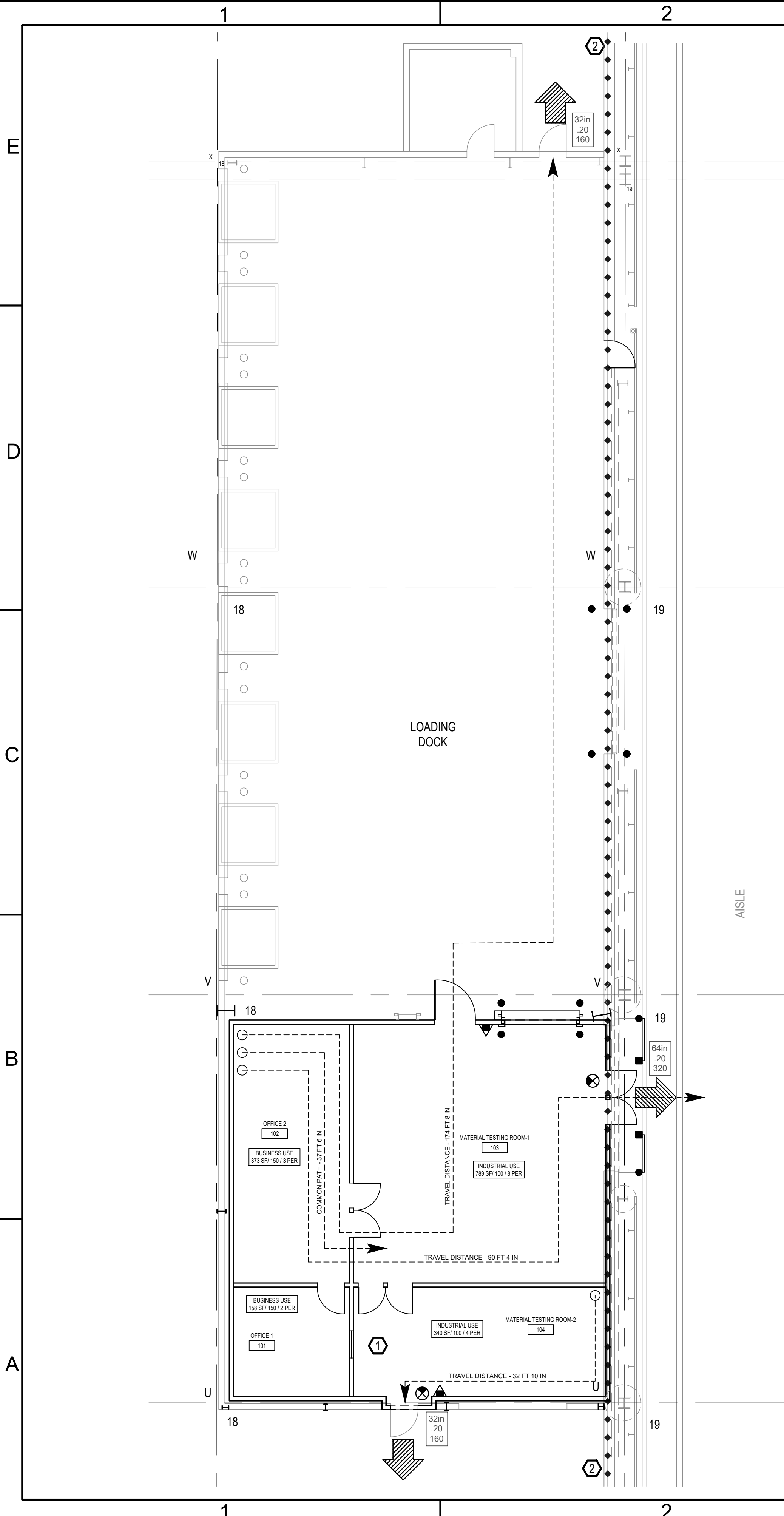
SHEET NUMBER

G-004

SHEET

04

OF



1

G-005

LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

↑

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EGRESS TRAVEL DISTANCE

	ALLOWED	ACTUAL	NFPA 101 REF.
BUSINESS USE (PROJECT AREA)			
COMMON PATH	100 FEET (WITH SPRINKLERS)	37 FT 6 IN	38.2.5.3.1
TRAVEL DISTANCE	300 FEET (WITH SPRINKLERS)	90 FT 4 IN	38.2.6.3
DEAD-END CORRIDOR	50 FEET (WITH SPRINKLERS)	N/A	38.2.5.3.1
INDUSTRIAL USE (PROJECT AREA)			
COMMON PATH	100 FEET (WITH SPRINKLERS)	N/A	40.2.5.1
TRAVEL DISTANCE	400 FEET (WITH SPRINKLERS)	32 FT 10 IN	40.2.6.1
DEAD-END CORRIDOR	50 FEET (WITH SPRINKLERS)	N/A	40.2.5.1

PROJECT OCCUPANT LOAD SCHEDULE

ROOM NUMBER	ROOM DESCRIPTION	ROOM AREA SQFT.	ROOM USE	LOAD FACTOR (SQFT./PERSON)*	OCCUPANCY LOAD
101	OFFICE 1	158	BUSINESS	150	2
102	OFFICE 2	373	BUSINESS	150	3
103	MATERIAL TESTING ROOM 2	789	INDUSTRIAL	100	8
104	MATERIAL TESTING ROOM 2	340	INDUSTRIAL	100	4
TOTAL FACILITY AREA		1660	TOTAL OCCUPANCY		17

*SOURCE: NFPA 101 § 7.3.1.2 AND UFC 3-600-01 - 10-3.1 & TABLE 10-1

PROJECT AREA

FLOOR	AREA (SF)
1ST LEVEL - ADDITION	1,696
TOTAL	1,696

KEYED NOTES

- ① EXTERIOR WALL AND CEILING WILL BE 1 HOUR RATING.
- ② 1 HOUR FIRE BARRIER EXTENDS 20 FEET OUT.

LIFE SAFETY SYMBOLS:

- ▲

PORTABLE FIRE EXTINGUISHERS
- XX'

EGRESS TRAVEL DISTANCE
- ➡

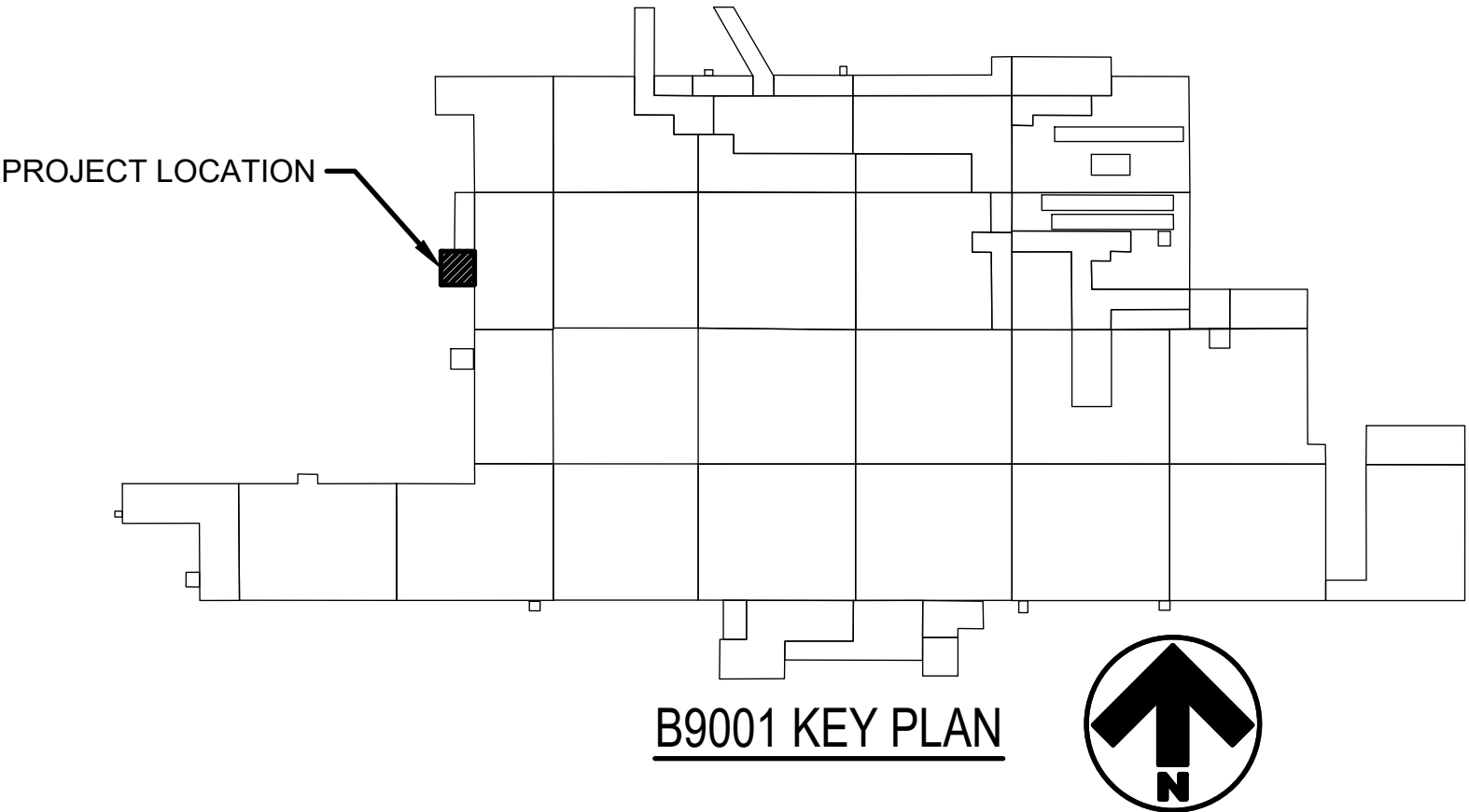
EXIT DISCHARGE
- XXin
XXX
XXX

-EXIT WIDTH
-CAPACITY FACTOR
-EXIT CAPACITY
- NFPA 101 OCCUPANCY
ROOM AREA / LOAD FACTOR / OCCUPANT LOAD

OCCUPANCY LOAD PER SPACE
- ⊗

EXIT SIGN
- ◆◆◆◆

1 HOUR FIRE RATED BARRIER



APMC

AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

35%
DESIGN

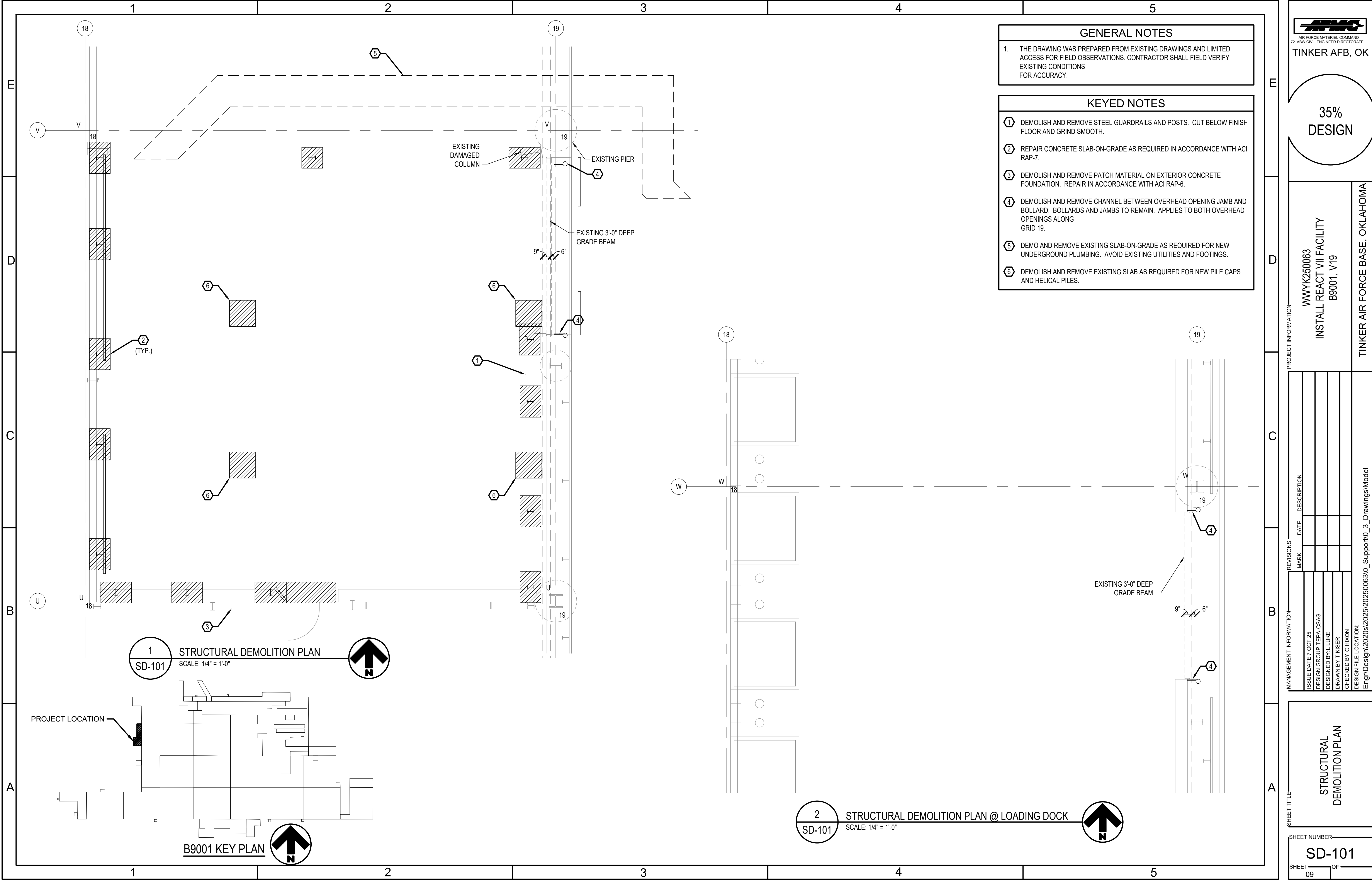
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TINKER AIR FORCE BASE, OKLAHOMA

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DRAWN BY: J. MARTINEZ
CHECKED BY: C. HIXON
DESIGN FILE LOCATION:
Engr\Design\2025\20250630_Support0_3_DrawingsModel

GENERAL
LIFE SAFETY PLAN

SHEET NUMBER
G-005

SHEET 05 OF



AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063	INSTALL REACT VII FACILITY B9001, V19	TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS	MARK	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			

MANAGEMENT INFORMATION	ISSUE DATE: 7 OCT 25	DESIGN GROUP: TEPA-CSAG	DESIGNED BY: L LUKE	DRAWN BY: T KISER	CHECKED BY: CHXON
DESIGN FILE LOCATION: Engr\Design\2025\20250063\0_Support\0_3_DrawingsModel					

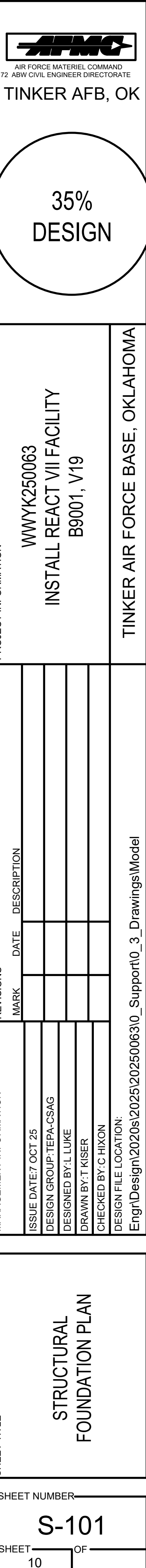
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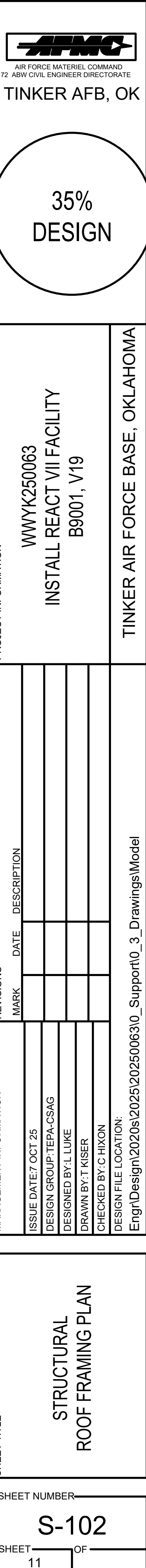
STRUCTURAL
DEMOLITION PLAN

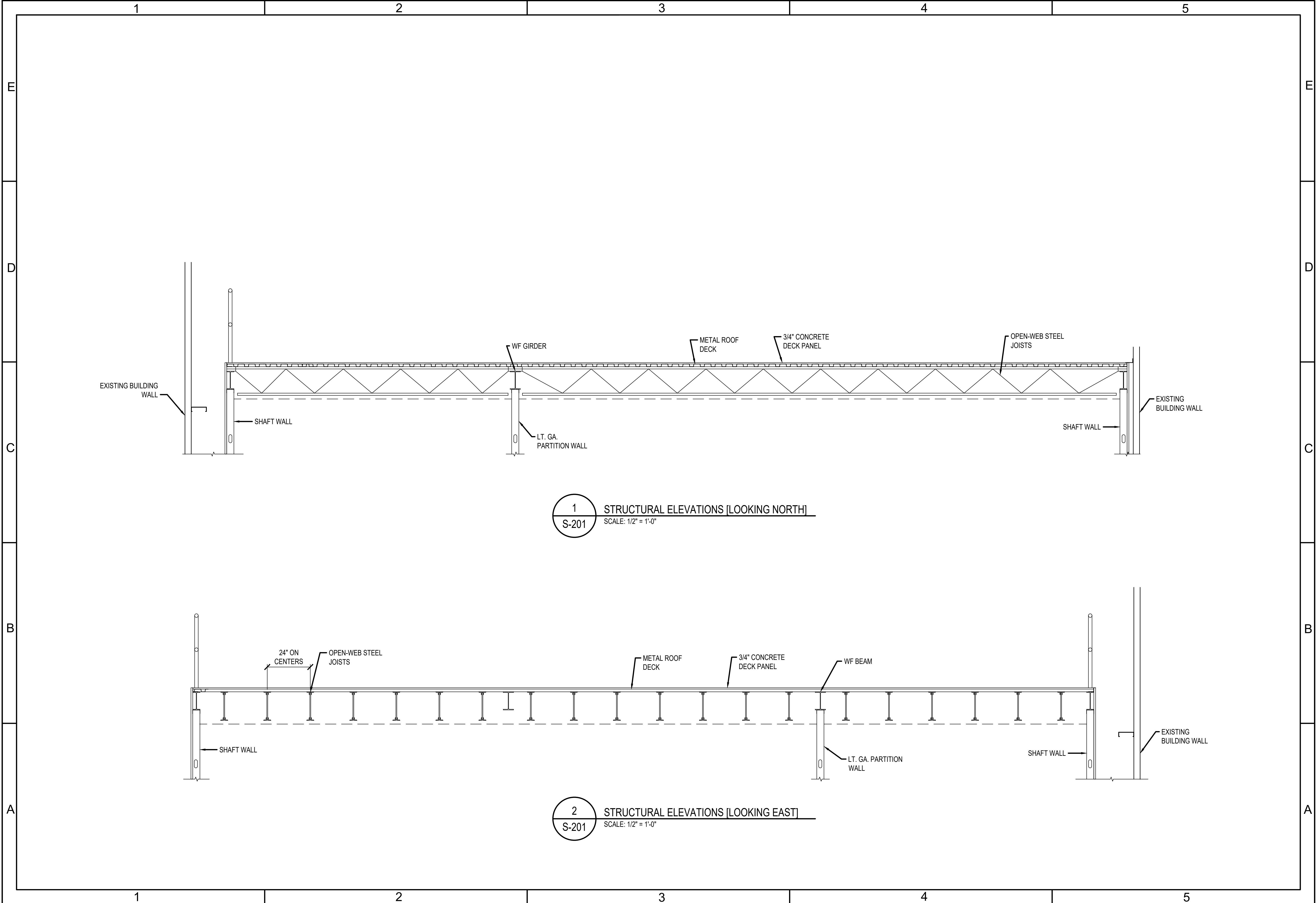
SHEET NUMBER

SD-101

SHEET 09 OF









AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS	MARK	DATE	DESCRIPTION
MANAGEMENT INFORMATION			
ISSUE DATE	7 OCT 25		
DESIGN GROUP	TPA-CSAG		
DESIGNED BY	L. LUKE		
DRAWN BY	T. KISER		
CHECKED BY	CHXON		
DESIGN FILE LOCATION:	Engr\Design\2025\202506310_Support0_3_DrawingsModel		

SHEET TITLE

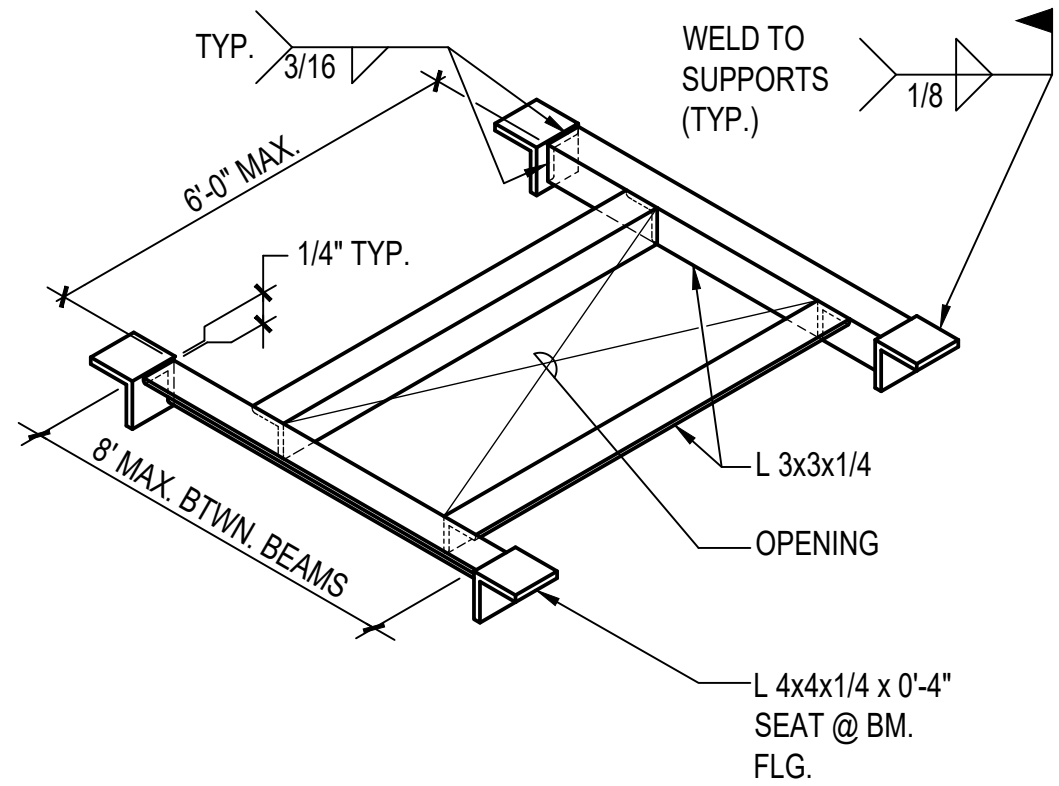
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SHEET NUMBER

S-201

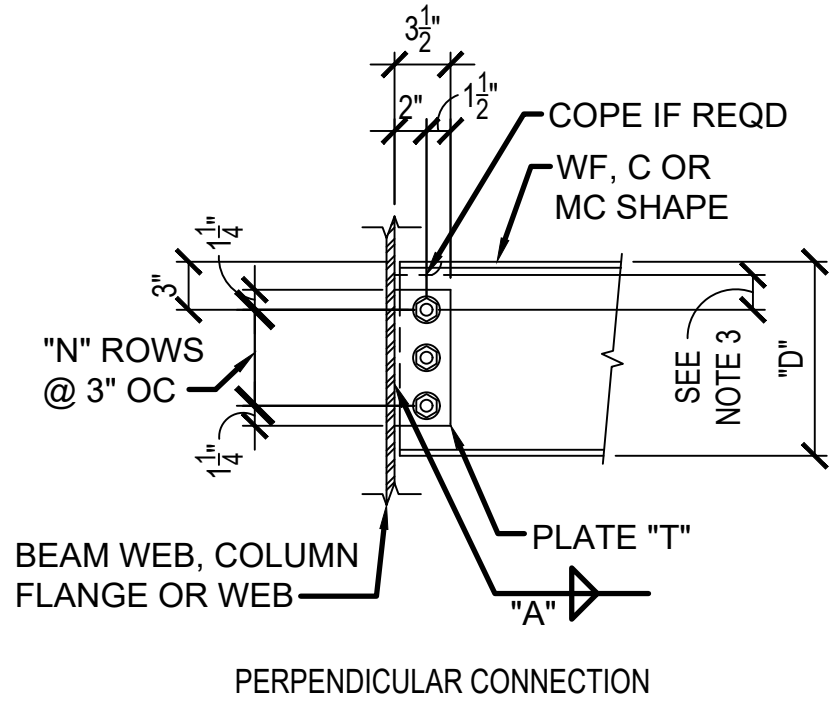
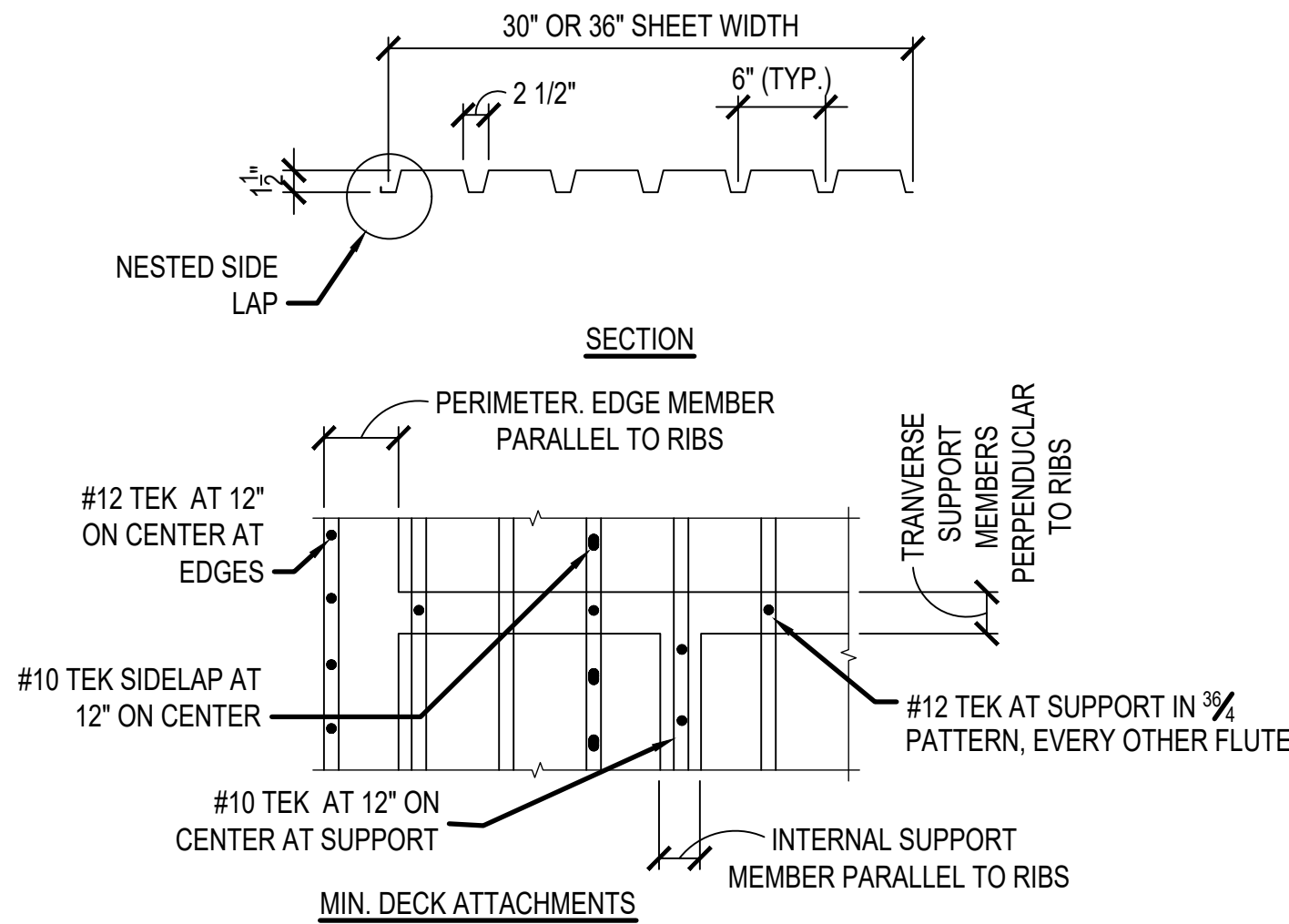
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OF



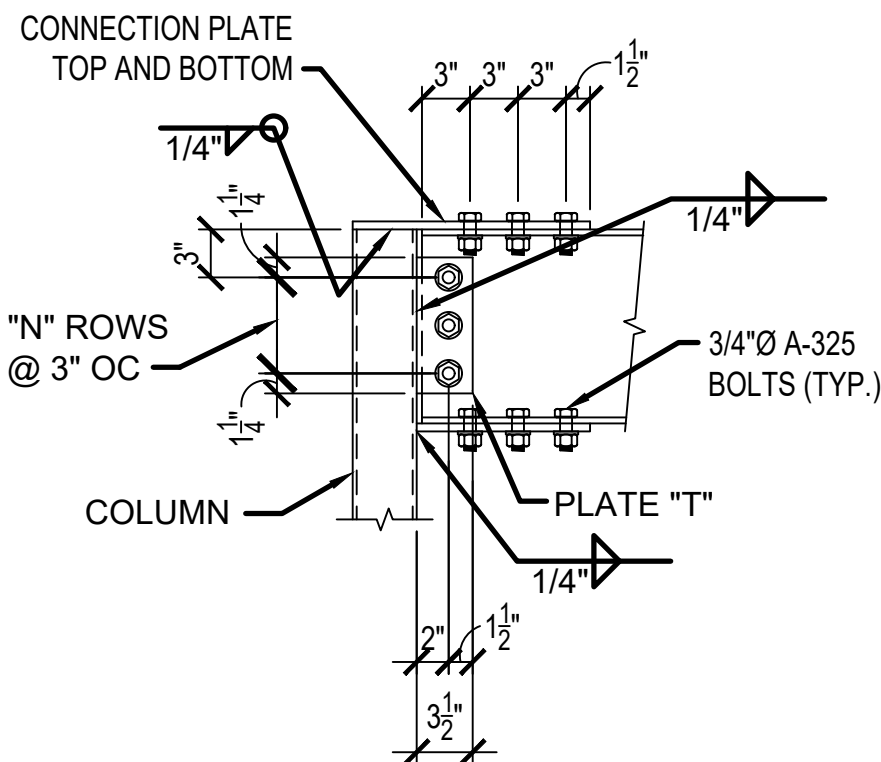
NOTE:

1. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION REQUIREMENTS WITH SELECTED EQUIPMENT. ROOF DECK OPENING FRAMING SHALL BE SUBMITTED AS PART OF STRUCTURAL STEEL SHOP DRAWING PACKAGE.



SINGLE PLATE BEAM CONNECTION SCHEDULE 3/4" DIA BOLTS			
NOMINAL BEAM DEPTH "D"	NUMBER OF BOLT ROWS "N"	PLATE THICKNESS "T"	WELD SIZE "A"
W10	2	5/16"	1/4"
W12	2	5/16"	1/4"

NOTES:
1. PROVIDE 3/16" WELD IF BEAM WEB IS LESS THAN 0.381" THICK.

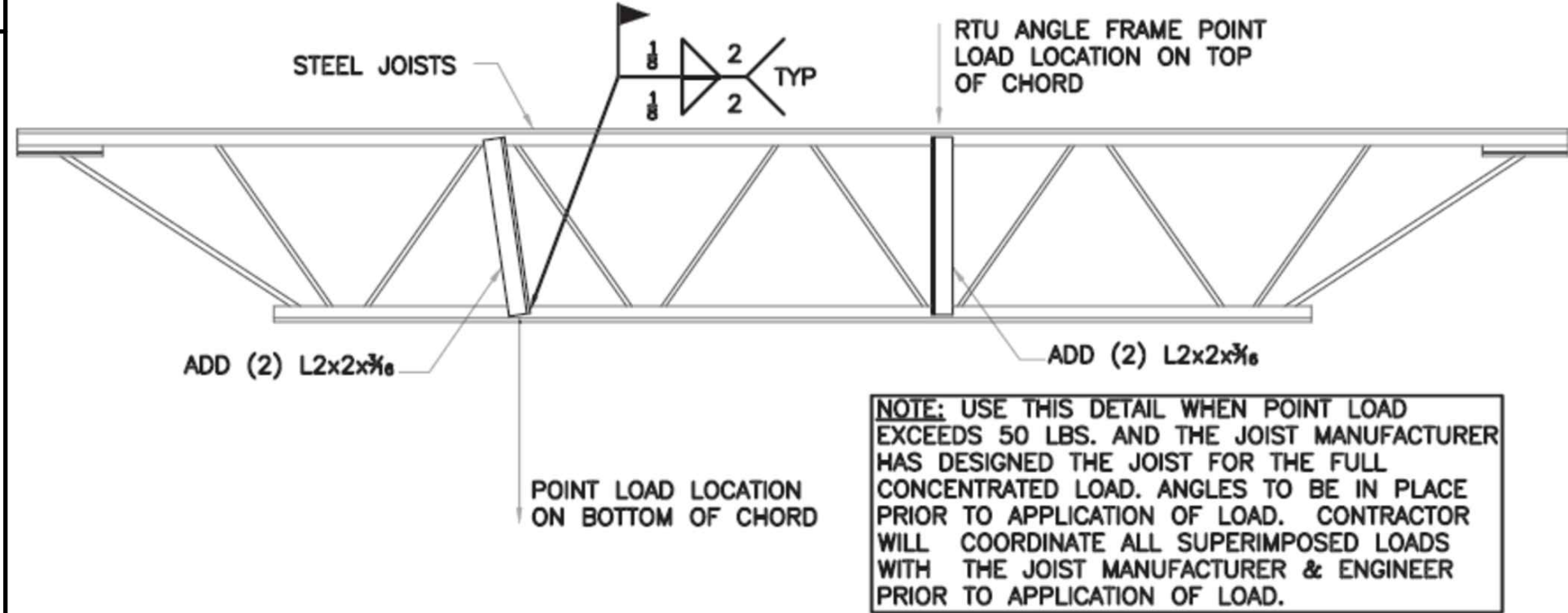


1 TYP. ROOF OPENING FRAME AND MECHANICAL UNIT SUPPORT
SCALE: N.T.S.

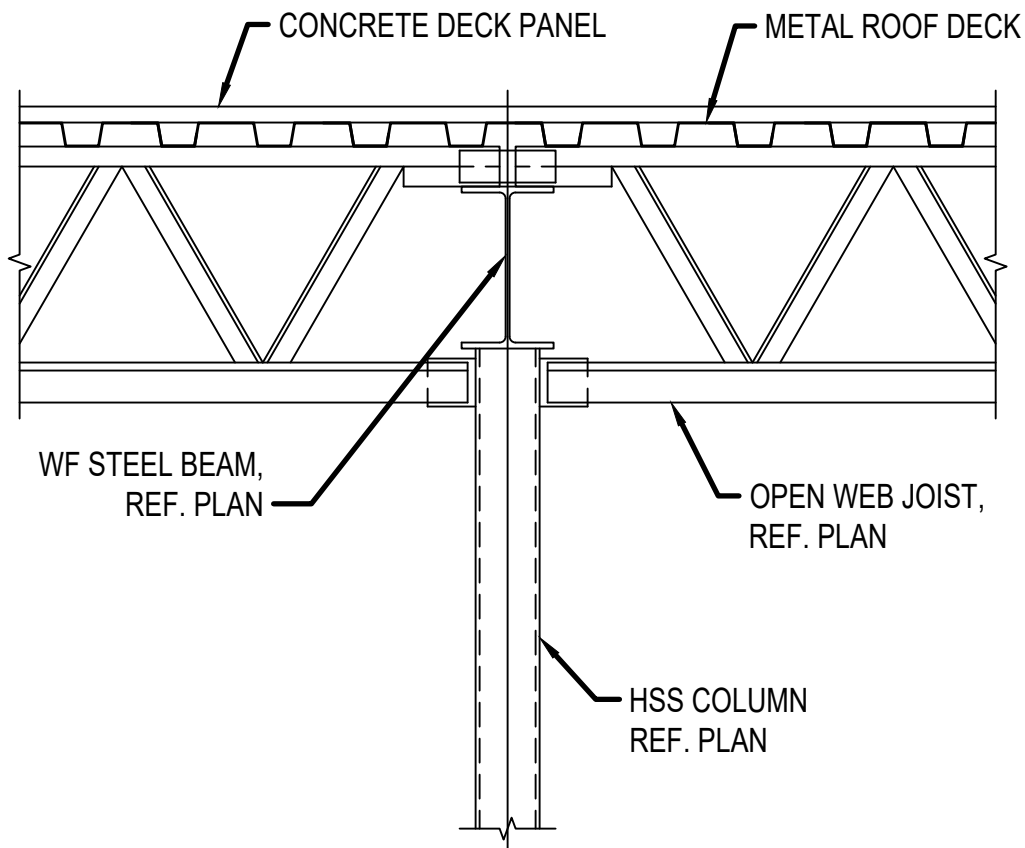
2 DECK DIAPHRAGM DETAIL
SCALE: N.T.S.

3 SINGLE PLATE BEAM CONNECTION
SCALE: 1" = 1'-0"

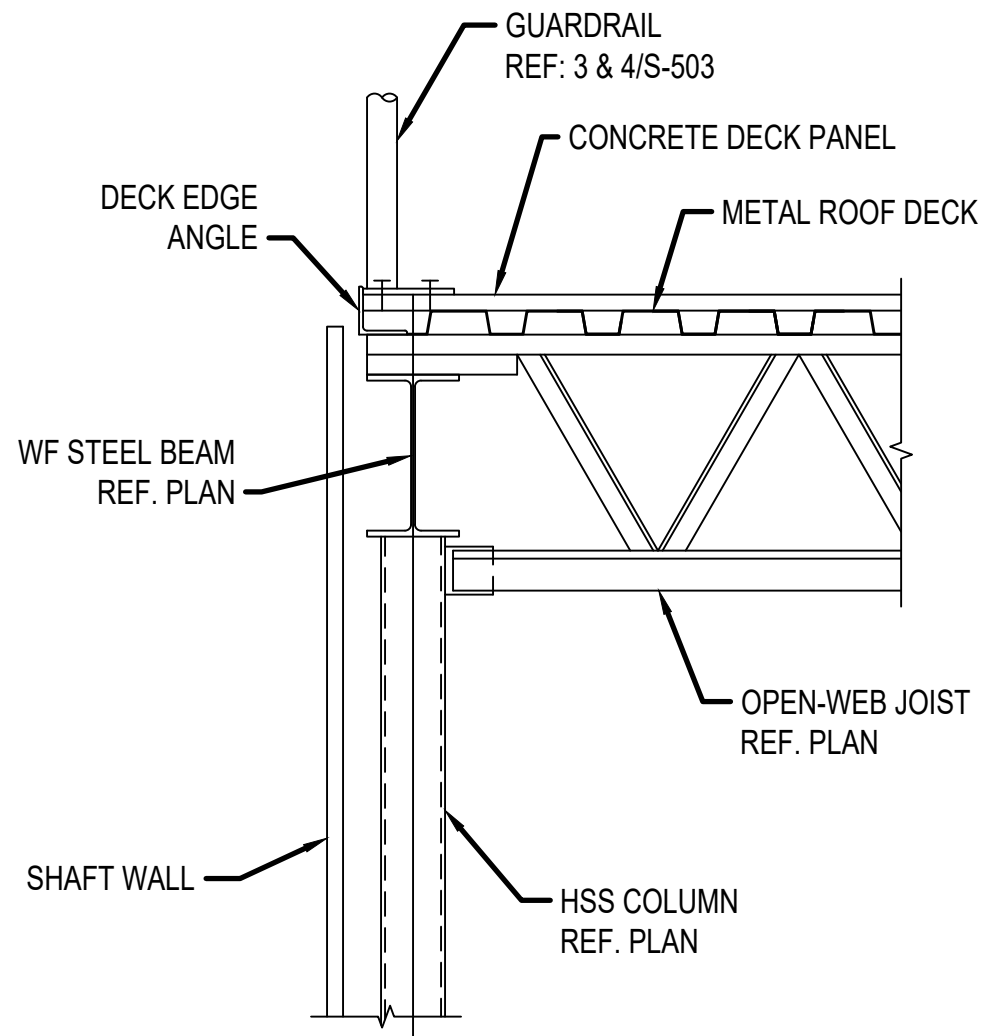
4 MOMENT CONNECTION DETAIL
SCALE: 1" = 1'-0"



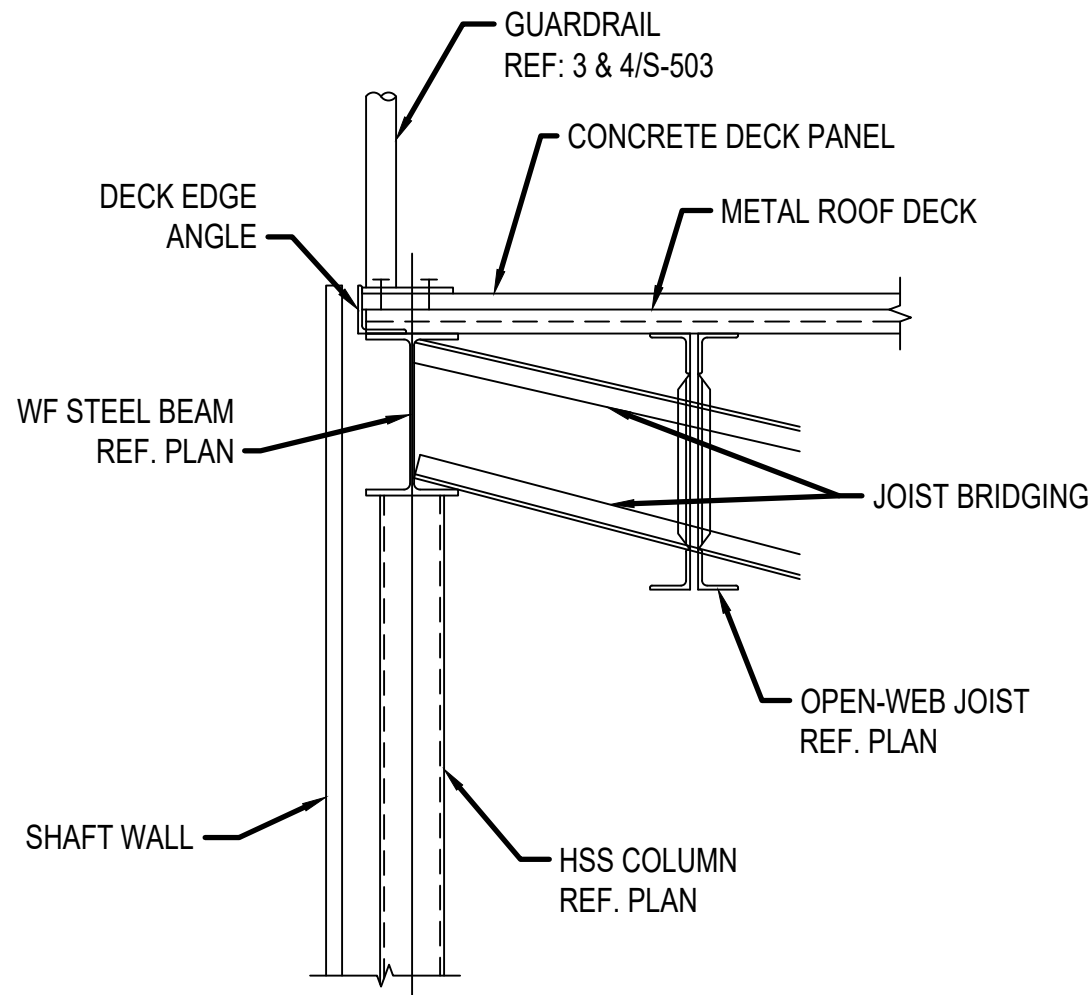
5 JOIST REINFORCEMENT DETAIL
SCALE: N.T.S.



6 FRAMING DETAIL
SCALE: 1" = 1'-0"



7 FRAMING DETAIL
SCALE: 1" = 1'-0"



8 FRAMING DETAIL
SCALE: 1" = 1'-0"



AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

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DESIGN

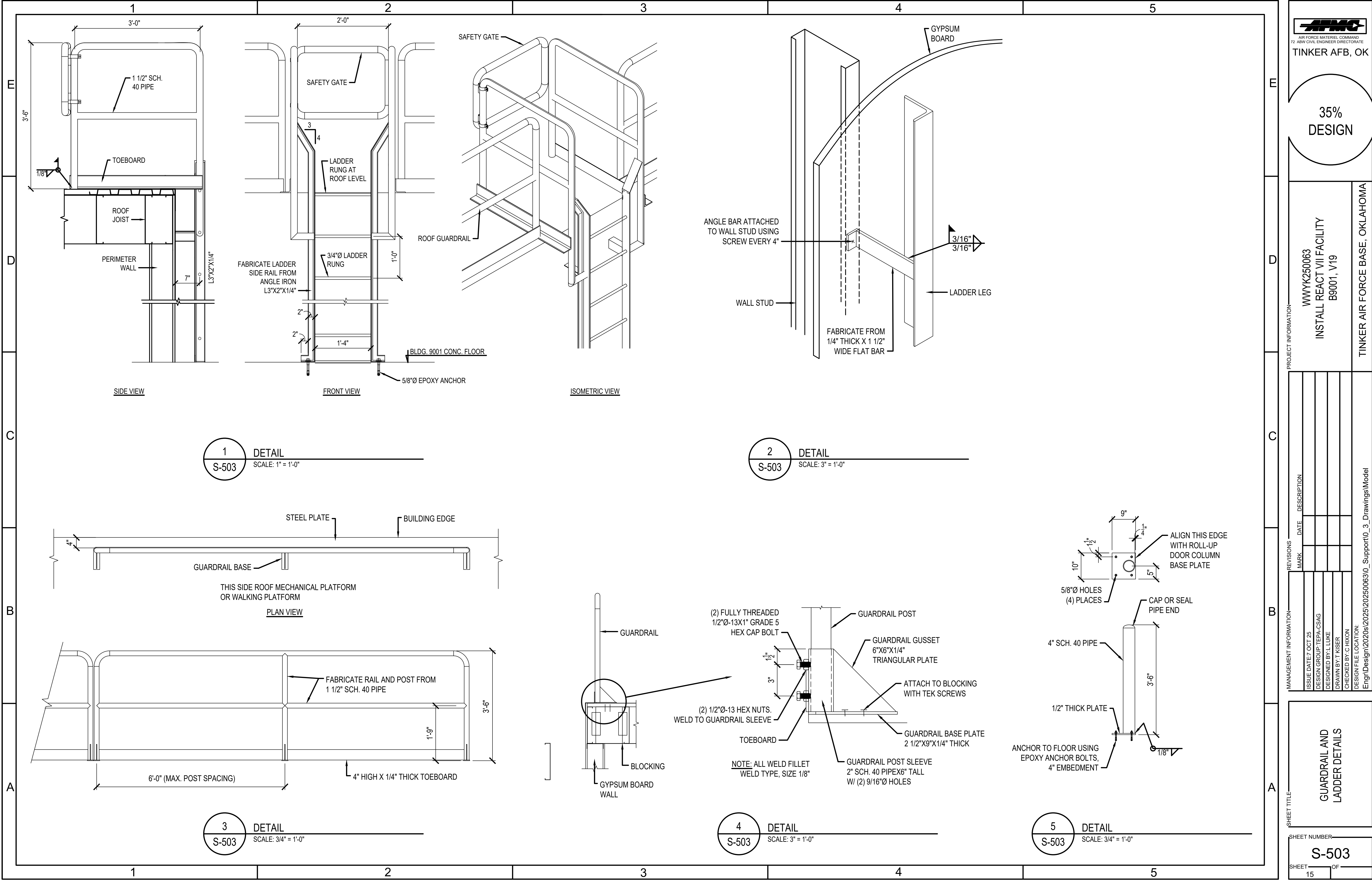
PROJECT INFORMATION
WYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS		DESCRIPTION	
ISSUE DATE	DATE	MARK	DATE	DESCRIPTION	DATE
7 OCT 25					
DESIGN GROUP: TEPA-CSAG					
DESIGNED BY: L LUKE					
DRAWN BY: T KUSER					
CHECKED BY: CHXON					
DESIGN FILE LOCATION: Engr\Design\2025\20250630_Support0_3_DrawingsModel					

FRAMING DETAILS

SHEET NUMBER
S-502
SHEET 14 OF 14





AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
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PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS	MARK	DATE	DESCRIPTION
1			
2			
3			
4			
5			

MANAGEMENT INFORMATION

ISSUE DATE: 7 OCT 25
DESIGN GROUP: TEP-PA-CSAG
DESIGNED BY: L LUKE
DRAWN BY: T KISER
CHECKED BY: CHXON
DESIGN FILE LOCATION:
Engr\Design\2020s\2025\20250063\0_Support\0_3_Drawings\Model

SHEET TITLE

GUARDRAIL AND
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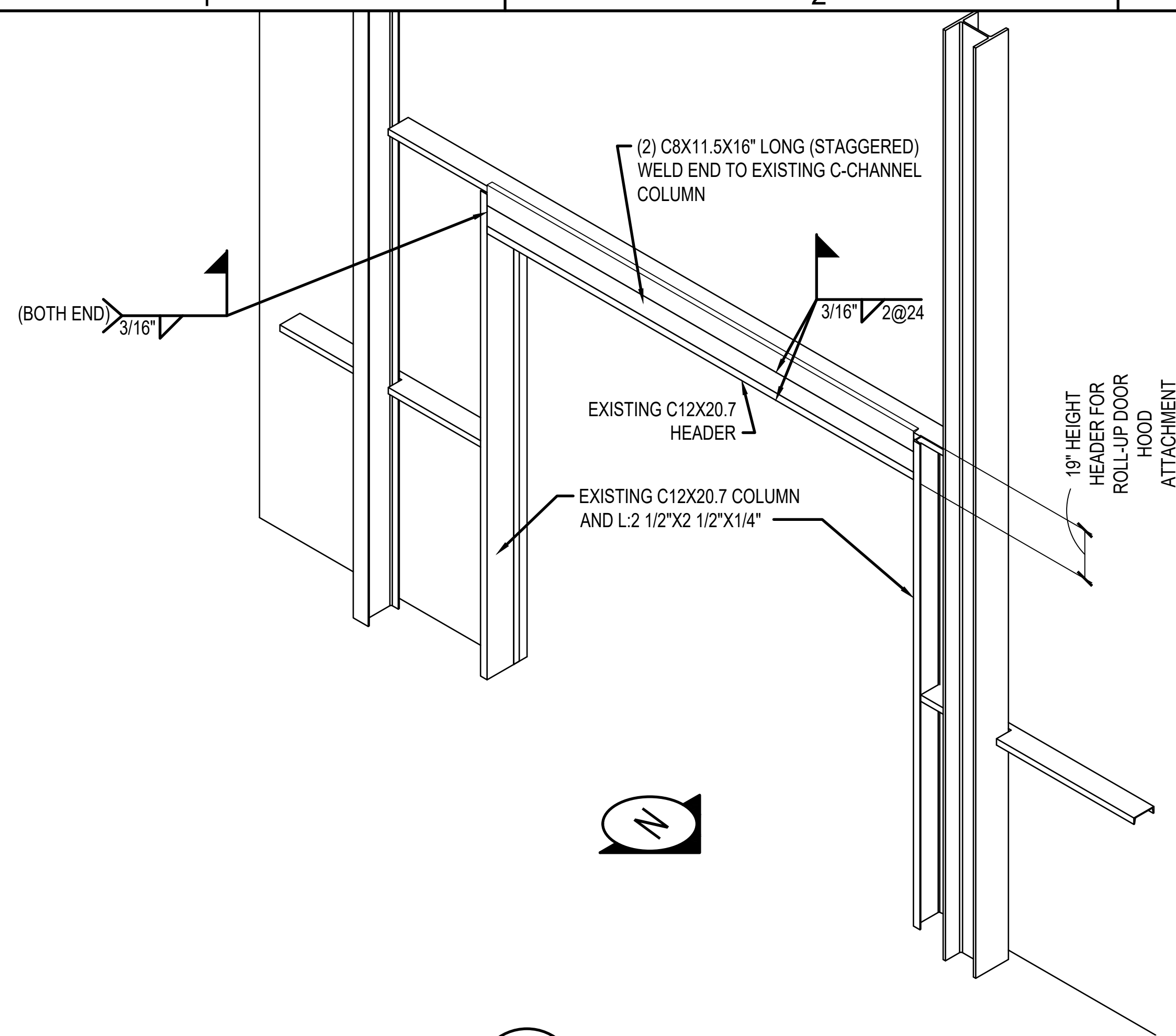
SHEET NUMBER

S-503

SHEET

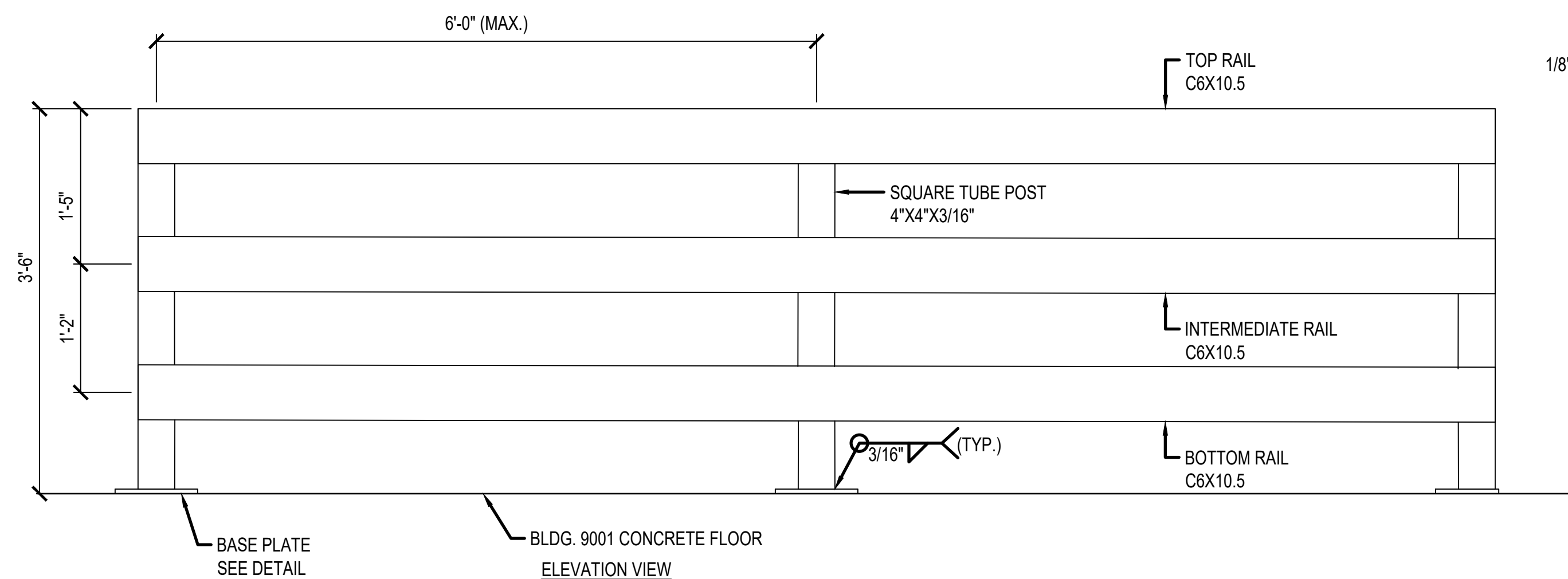
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OF



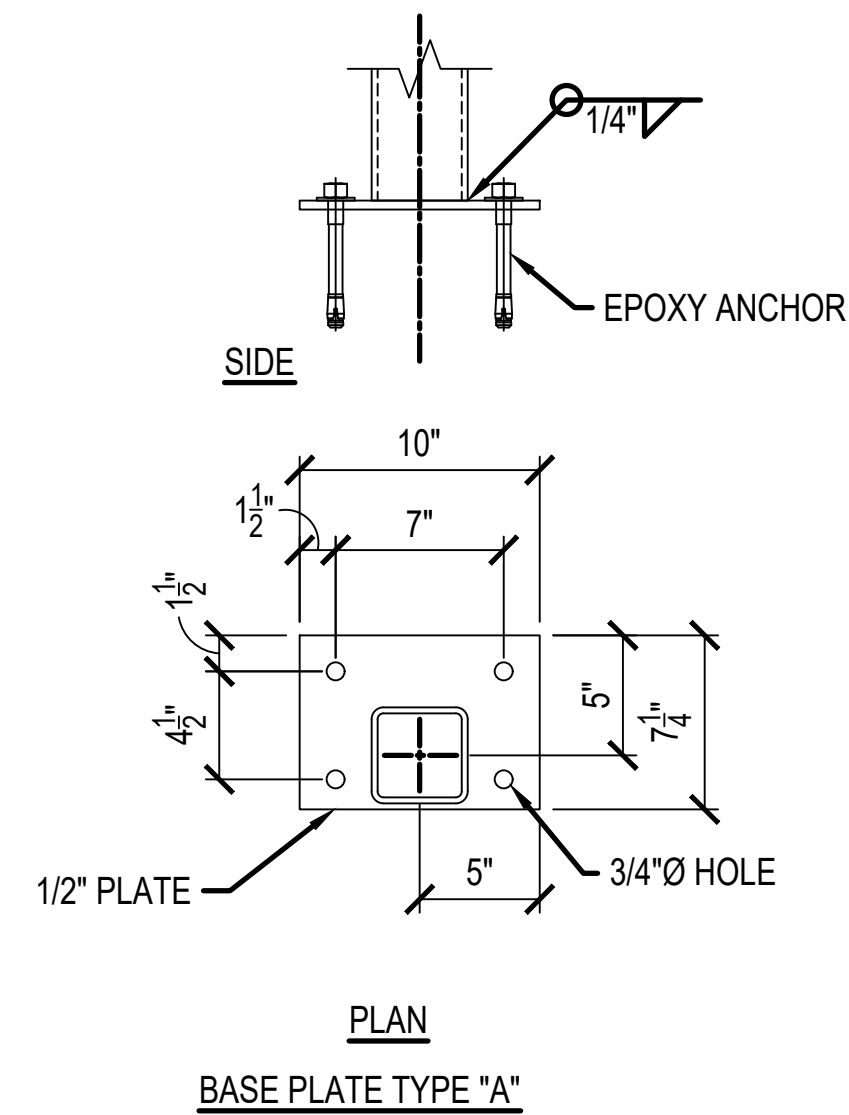
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S-504

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



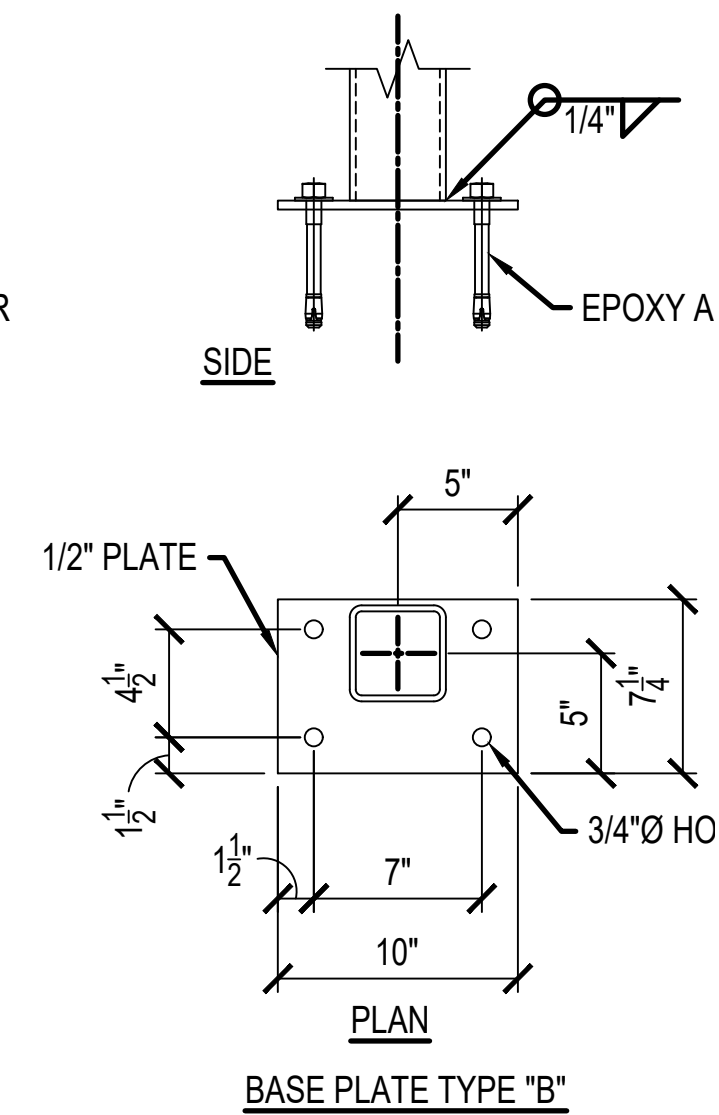
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S-504

DETAIL
SCALE: 1" = 1'-0"

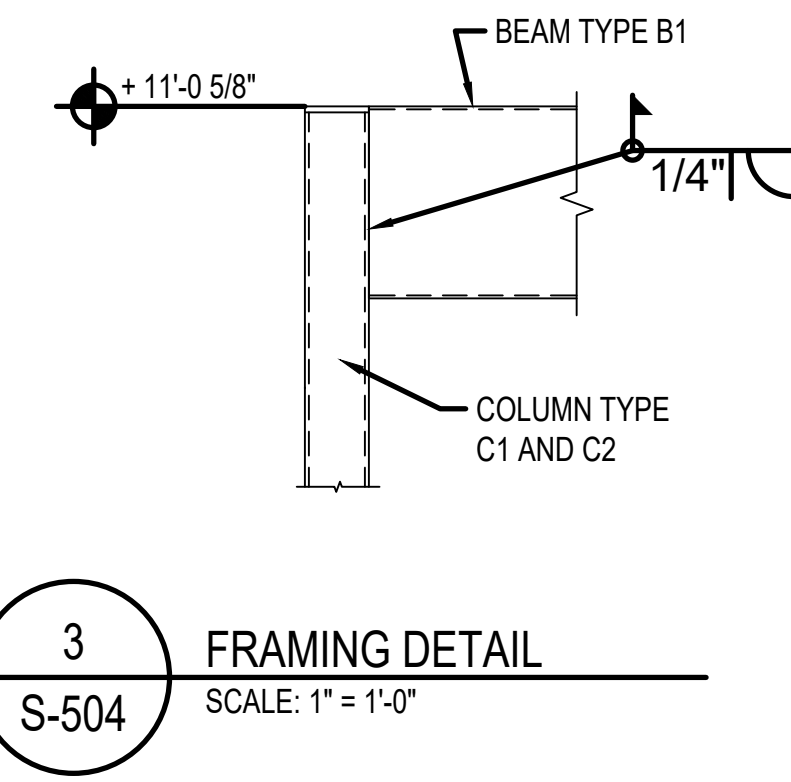


2
S-504

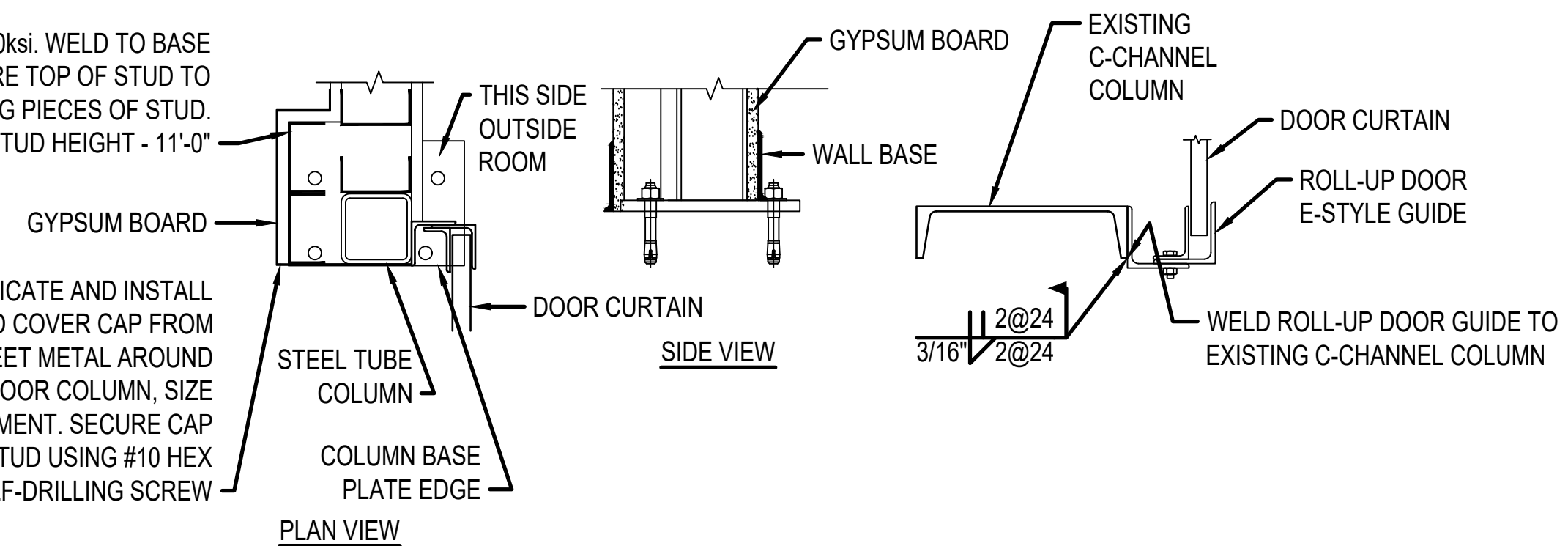
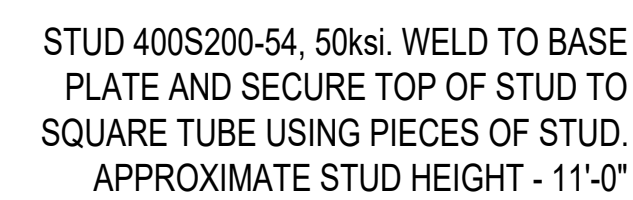
DETAIL
SCALE: 1 1/2" = 1'-0"



BASE PLATE TYPE "B"

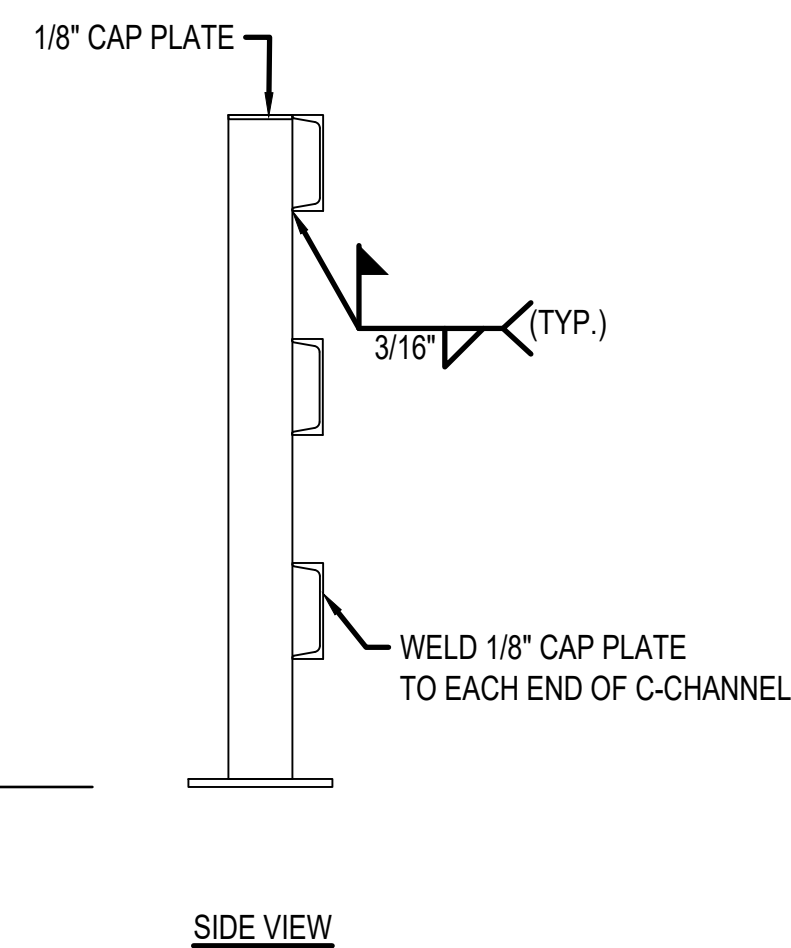


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S-504

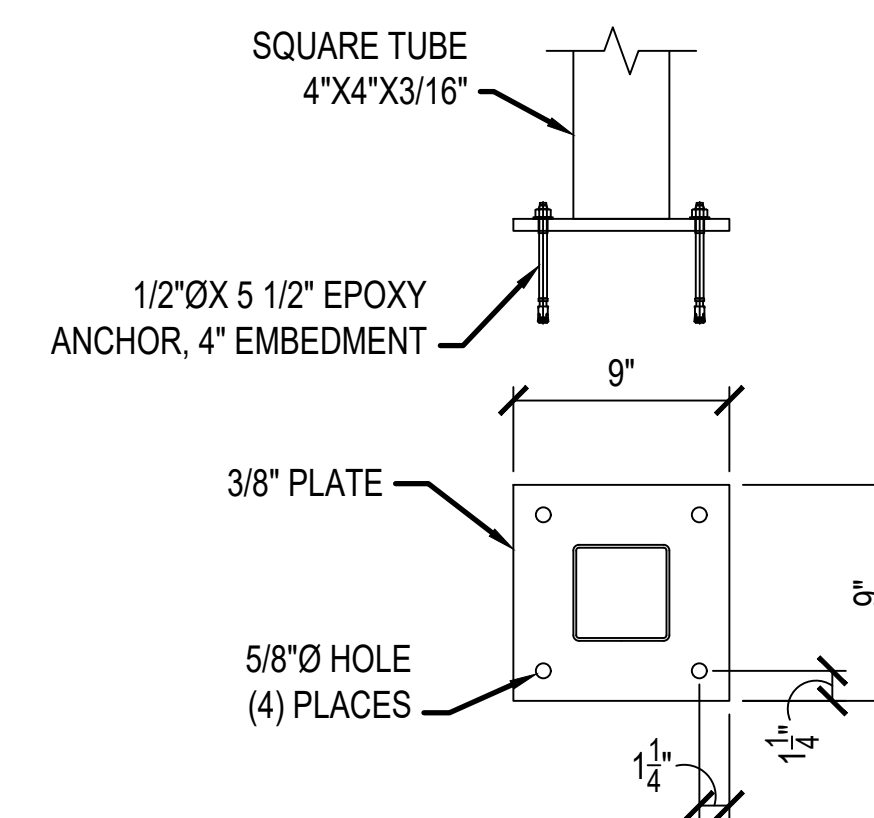


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S-504

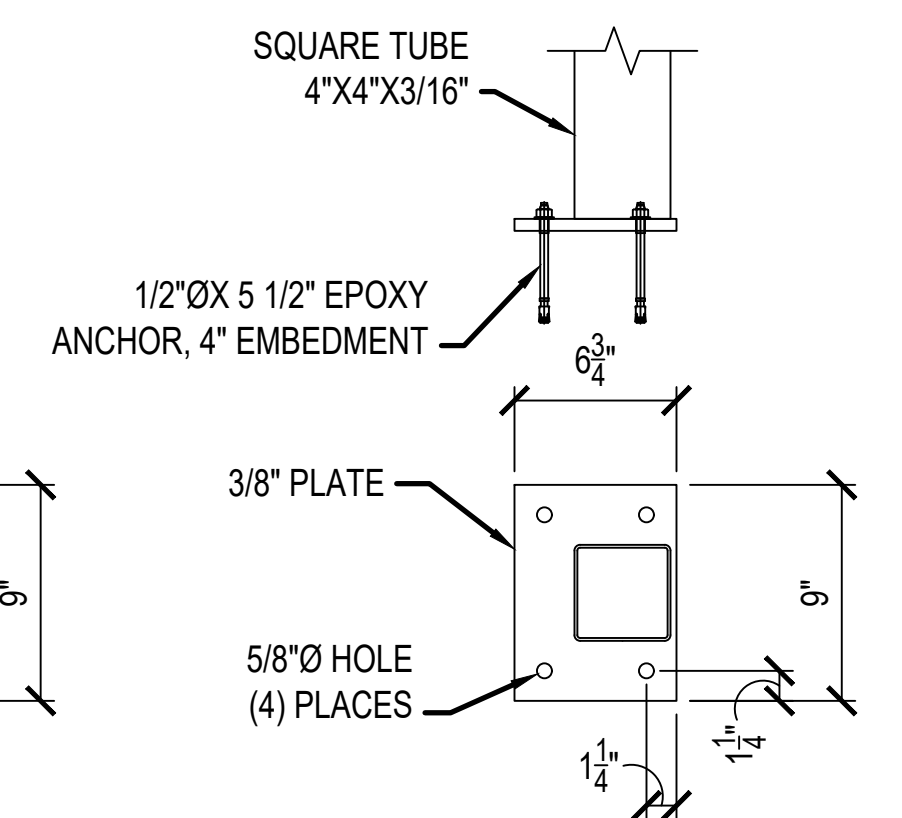
DETAIL
SCALE: 1 1/2" = 1'-0"



SIDE VIEW

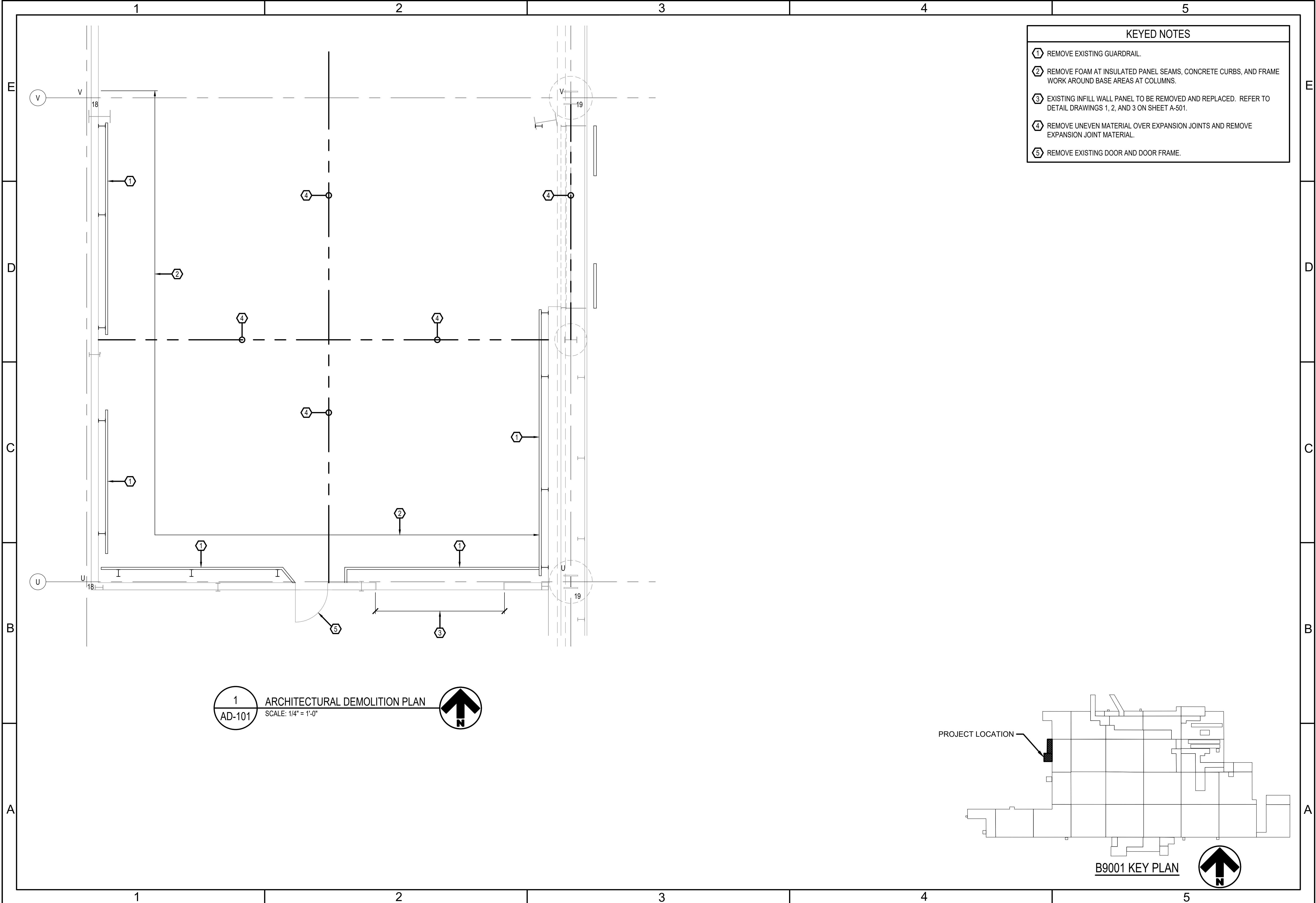


INTERMEDIATE POST BASE PLATE



END POST BASE PLATE (AT ENTRANCE)

MANAGEMENT INFORMATION		REVISIONS	
		MARK	DATE
ISSUE DATE: 7 OCT 25			
DESIGN GROUP: TEPA-CSAG			
DESIGNED BY: L LUKE			
DRAWN BY: T KISER			
CHECKED BY: C HXON			
DESIGN FILE LOCATION: Enr\Design\2025\2025\0063\0 Support\0 3 Drawings\Model			



AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

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DESIGN

PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: J LESTER		
	DRAWN BY: T KISER		
	CHECKED BY: CHIXON		

DESIGN FILE LOCATION:
Engr\Design\2020s\2025\20250063\0_Support\0_3_DrawingsModel

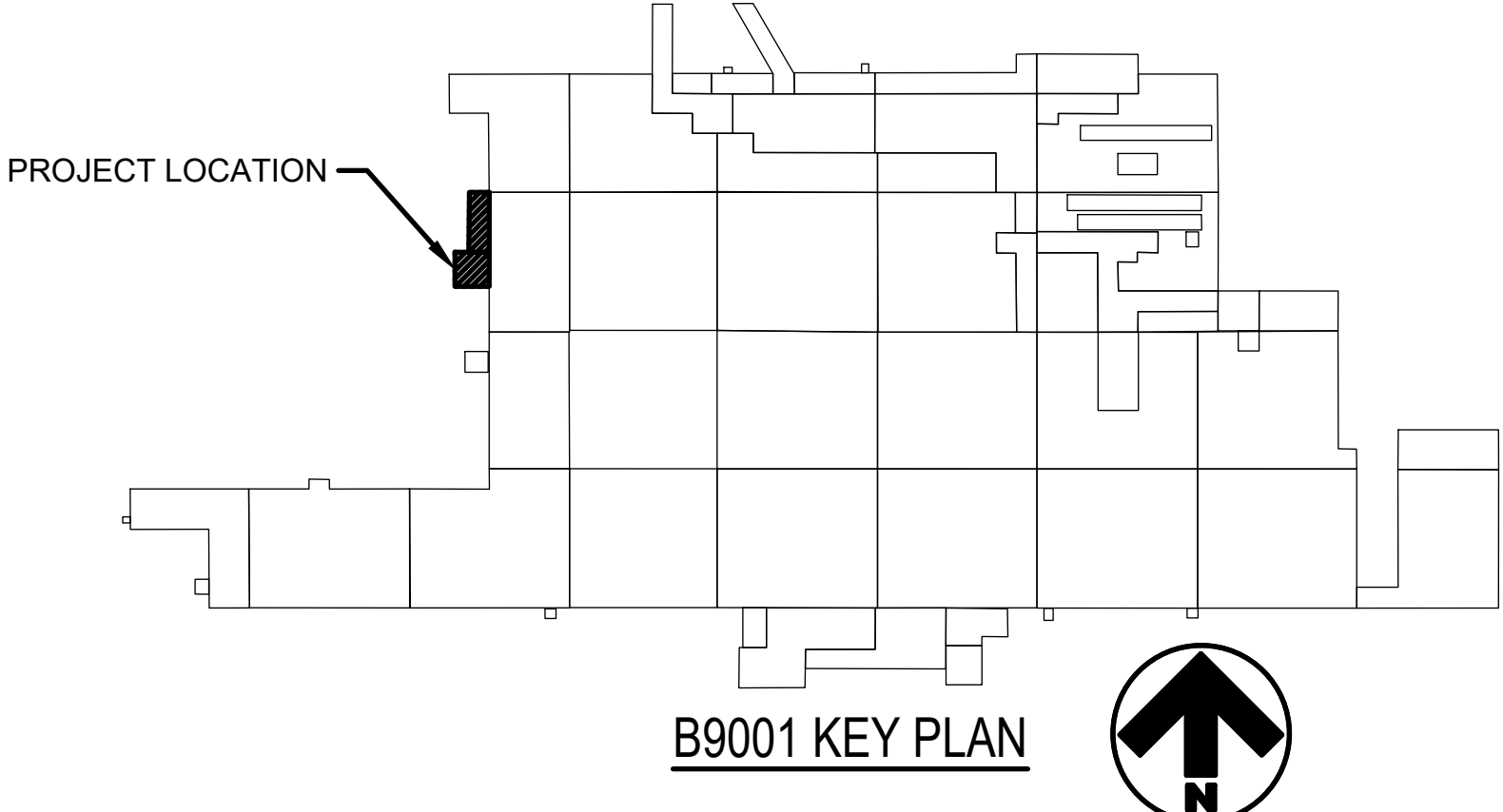
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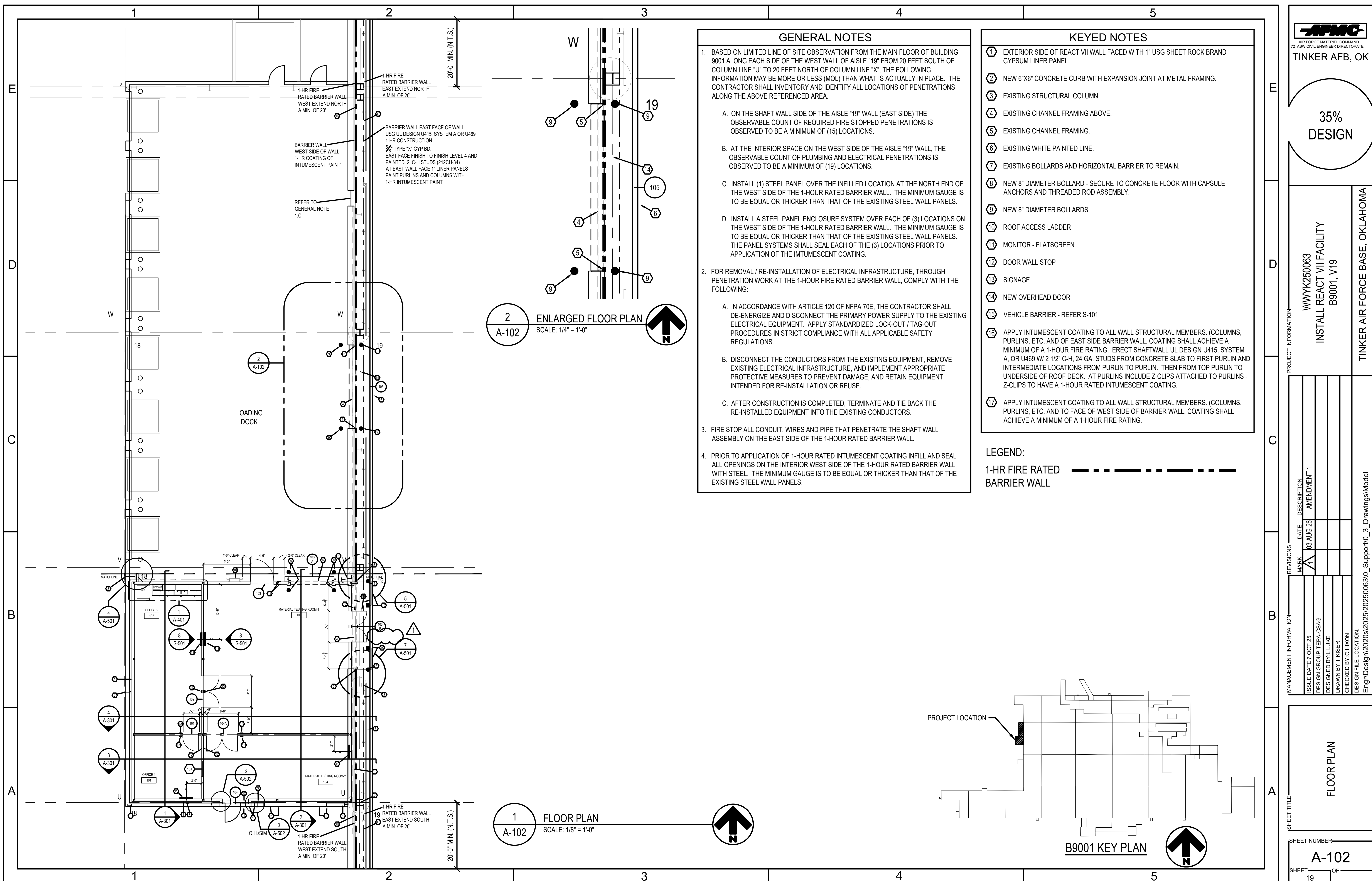
ARCHITECTURAL
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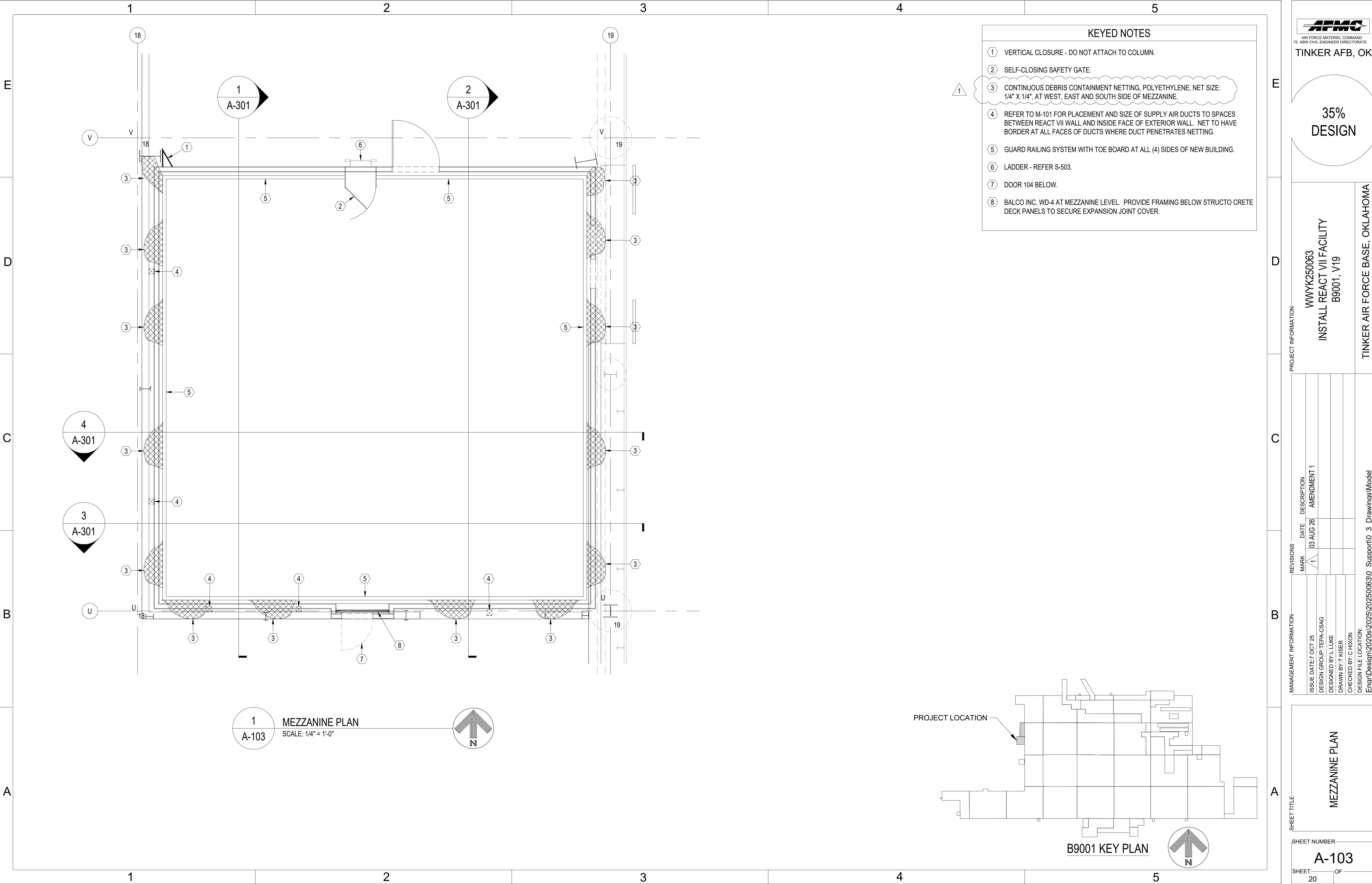
SHEET NUMBER

AD-101

SHEET 17 OF 17







- KEYED NOTES**
- ① VERTICAL CLOSURE - DO NOT ATTACH TO COLUMN.
 - ② SELF-CLOSING SAFETY GATE.
 - ③ CONTINUOUS DEBRIS CONTAINMENT NETTING, POLYETHYLENE, NET SIZE: 1/4" X 1/4", AT WEST, EAST AND SOUTH SIDE OF MEZZANINE.
 - ④ REFER TO M-101 FOR PLACEMENT AND SIZE OF SUPPLY AIR DUCTS TO SPACES BETWEEN REACT VII WALL AND INSIDE FACE OF EXTERIOR WALL. NET TO HAVE BORDER AT ALL FACES OF DUCTS WHERE DUCT PENETRATES NETTING.
 - ⑤ GUARD RAILING SYSTEM WITH TOE BOARD AT ALL (4) SIDES OF NEW BUILDING.
 - ⑥ LADDER - REFER S-503.
 - ⑦ DOOR 104 BELOW.
 - ⑧ BALCO INC. WD-4 AT MEZZANINE LEVEL. PROVIDE FRAMING BELOW STRUCTO CRETE DECK PANELS TO SECURE EXPANSION JOINT COVER.



AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

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INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	AMENDMENT 1	1	03 AUG 26
DESIGN GROUP: TEPA-CSAG			
DESIGNED BY: L LUKE			
DRAWN BY: T KISER			
CHECKED BY: C HIXON			
DESIGN FILE LOCATION: Engr\Design\2025\202506310_Support0_3_DrawingsModel			

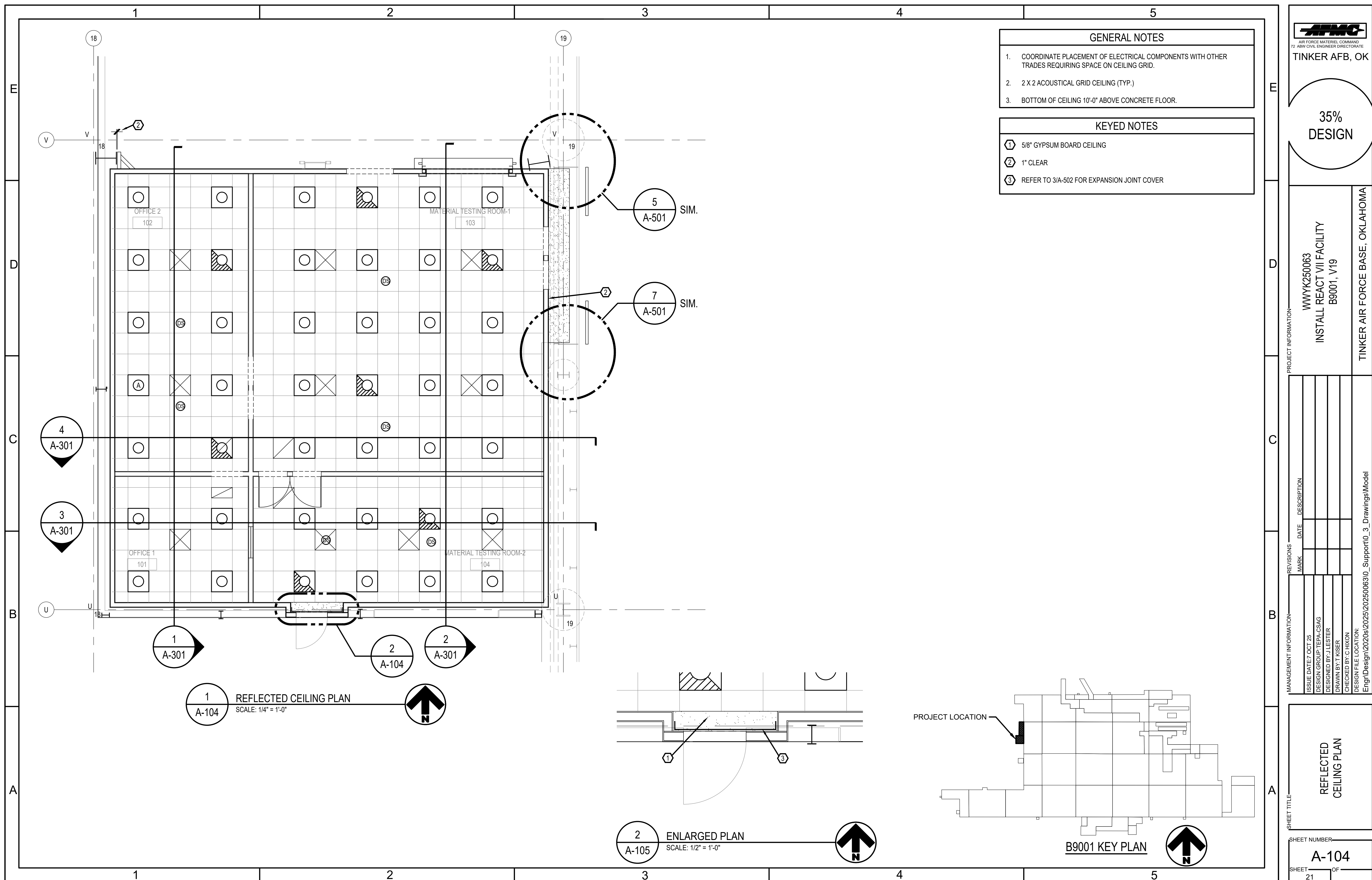
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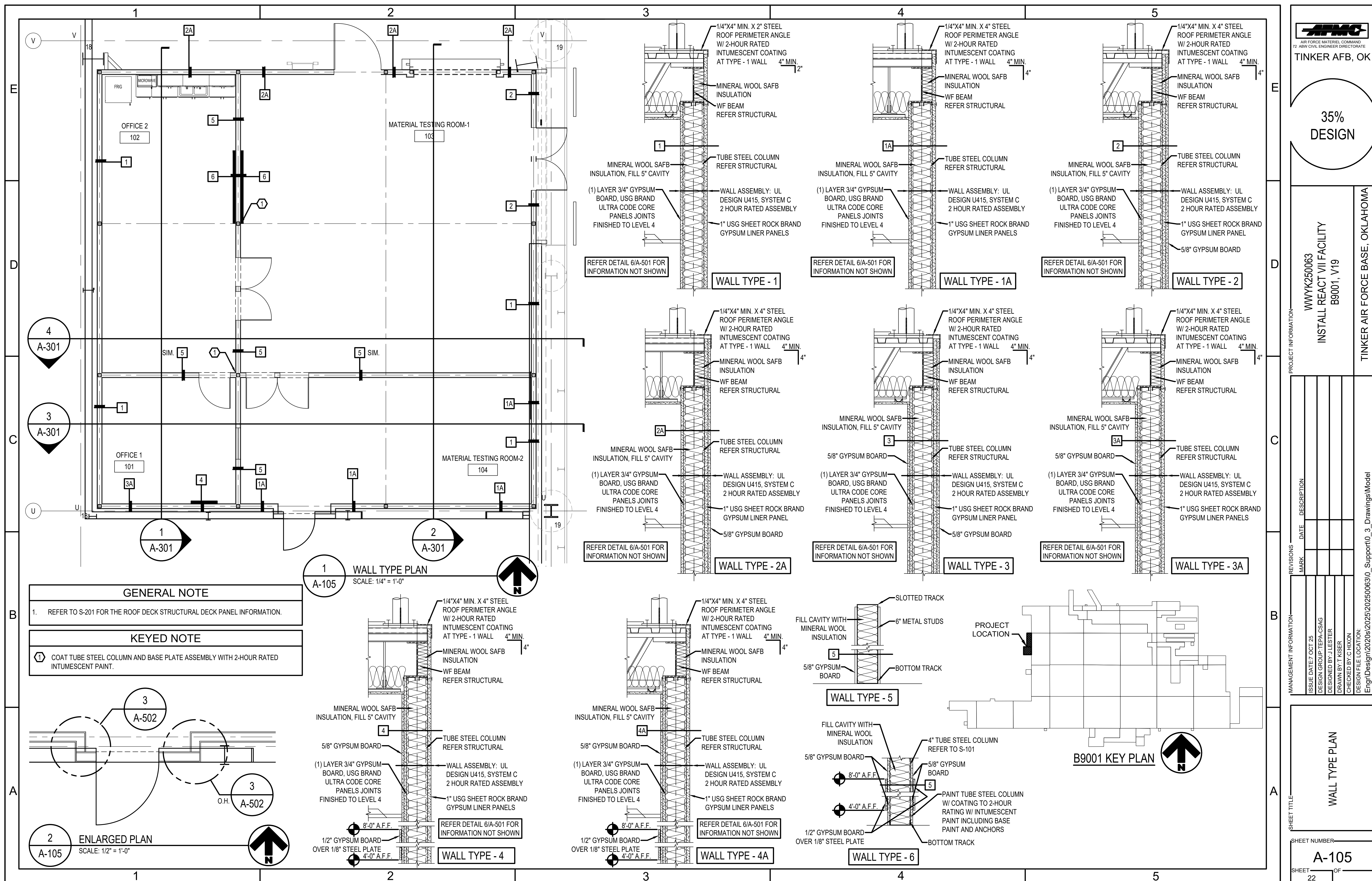
MEZZANINE PLAN

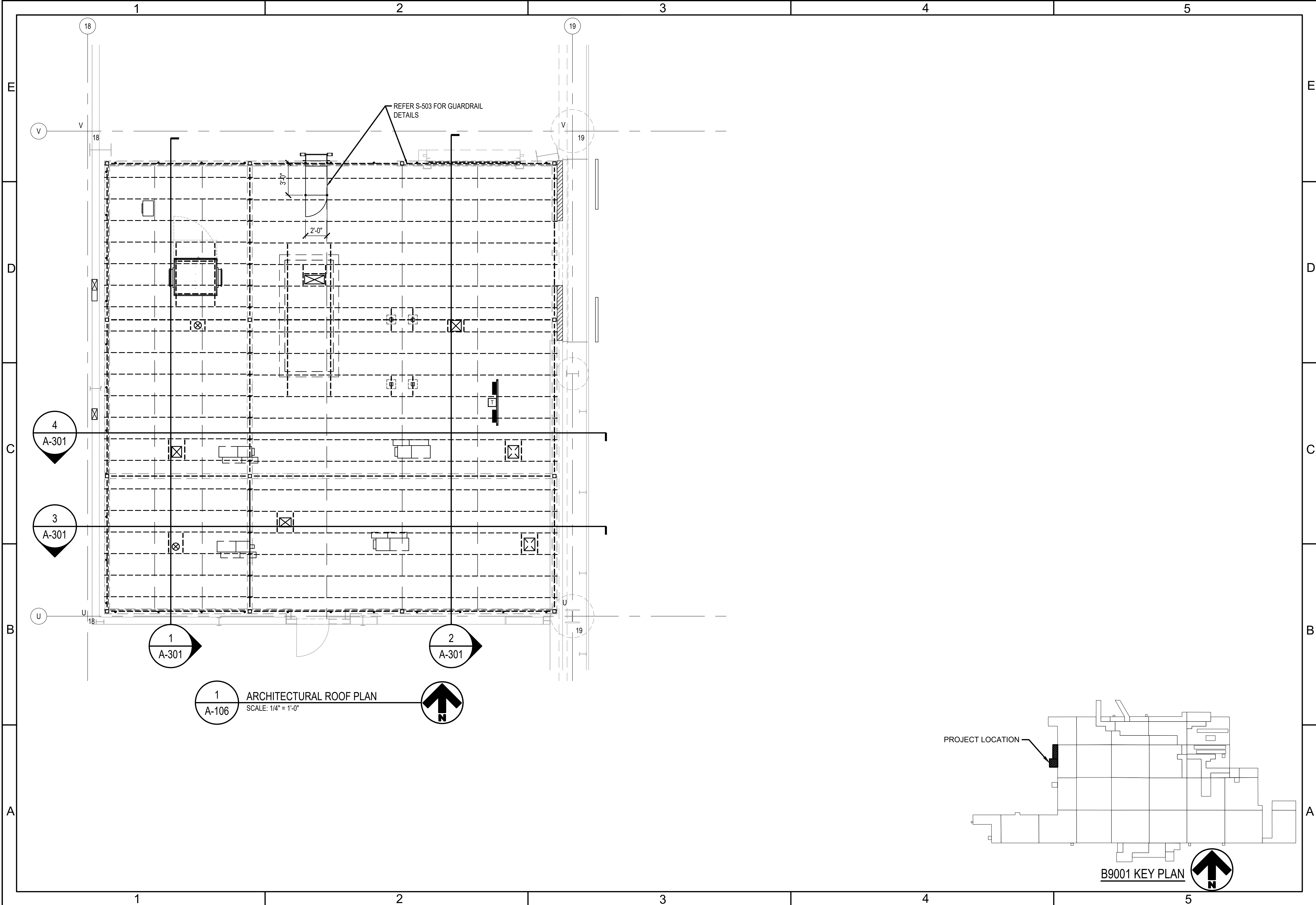
SHEET NUMBER

A-103

SHEET 20 OF









AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

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PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: J LESTER		
	DRAWN BY: T KISER		
	CHECKED BY: CHIXON		
DESIGN FILE LOCATION: Engr\Design\2020s\2025\20250063\0_Support\0_3_Drawings\Model			

SHEET TITLE

ARCHITECTURAL
ROOF PLAN

SHEET NUMBER

A-106

SHEET 23 OF



AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE

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WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

PROJECT INFORMATION

REVISIONS		DATE	DESCRIPTION
MARK	1	03 AUG 26	AMENDMENT 1
MANAGEMENT INFORMATION		ISSUE DATE	DESIGN GROUP
		07 OCT 25	TEPA-CSAG
		DESIGNED BY: J LESTER	
		DRAWN BY: T KISER	
		CHECKED BY: C HIXON	
		DESIGN FILE LOCATION: Engr\Design\2020s\2025\20250063\0_Support\0_3_Drawings\Model	

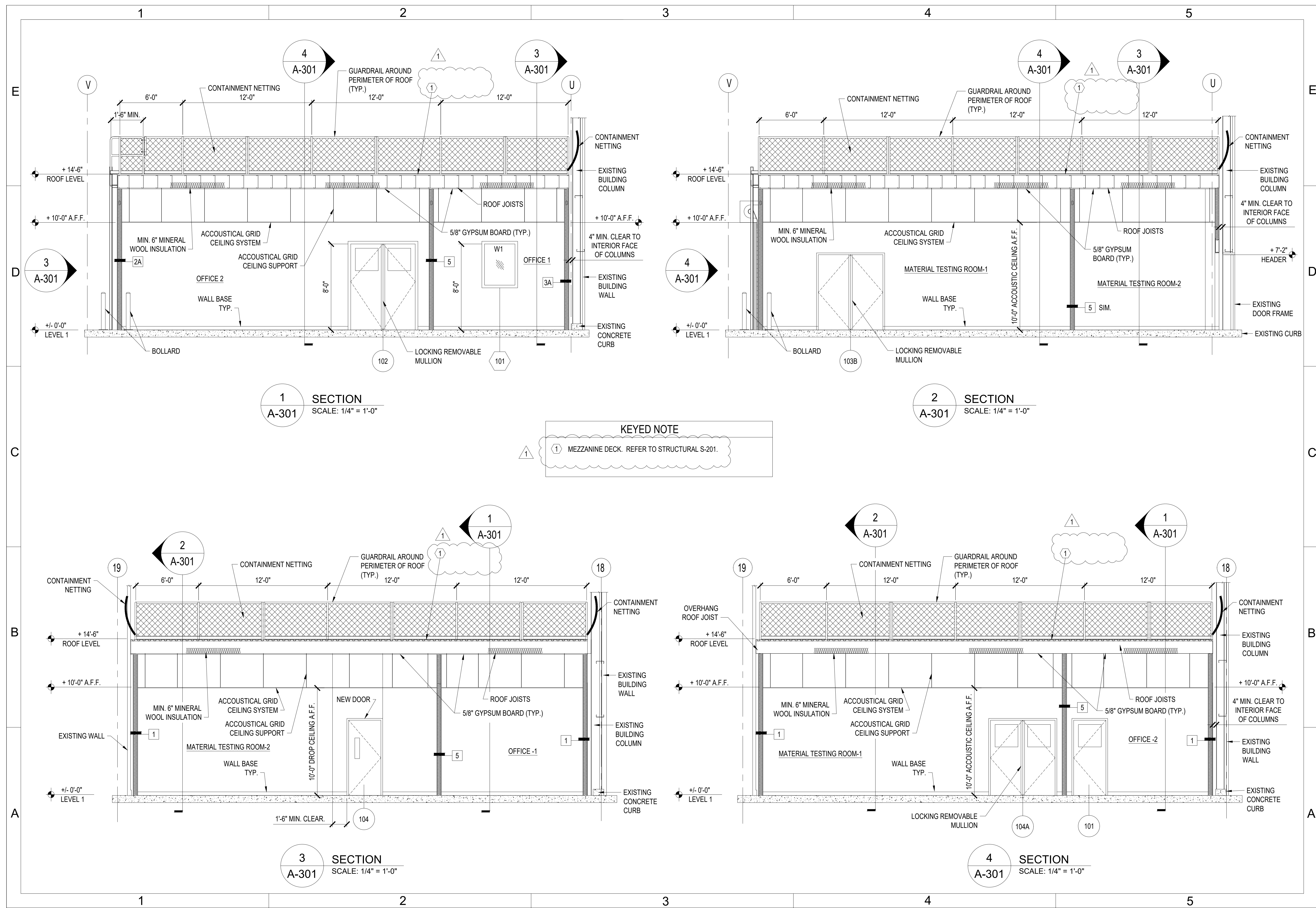
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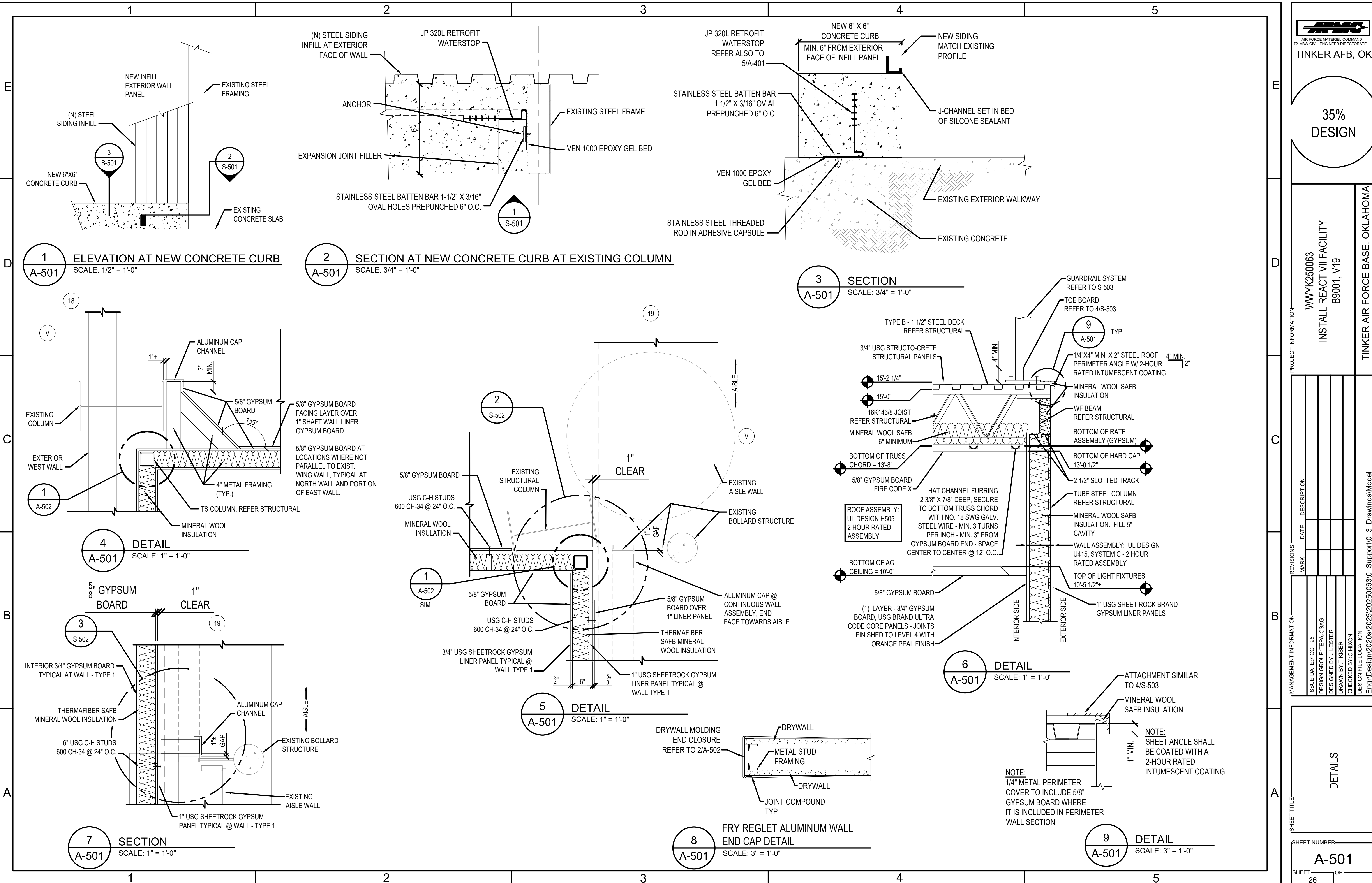
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A-301

SHEET 24 OF



SHEET NUMBER **A-401**
 SHEET **25** OF **25**



AIR FORCE MATERIAL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE

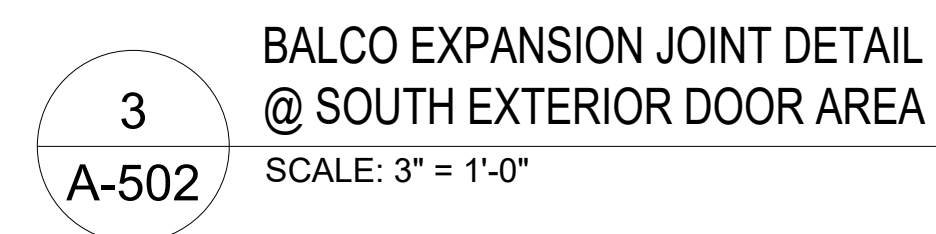
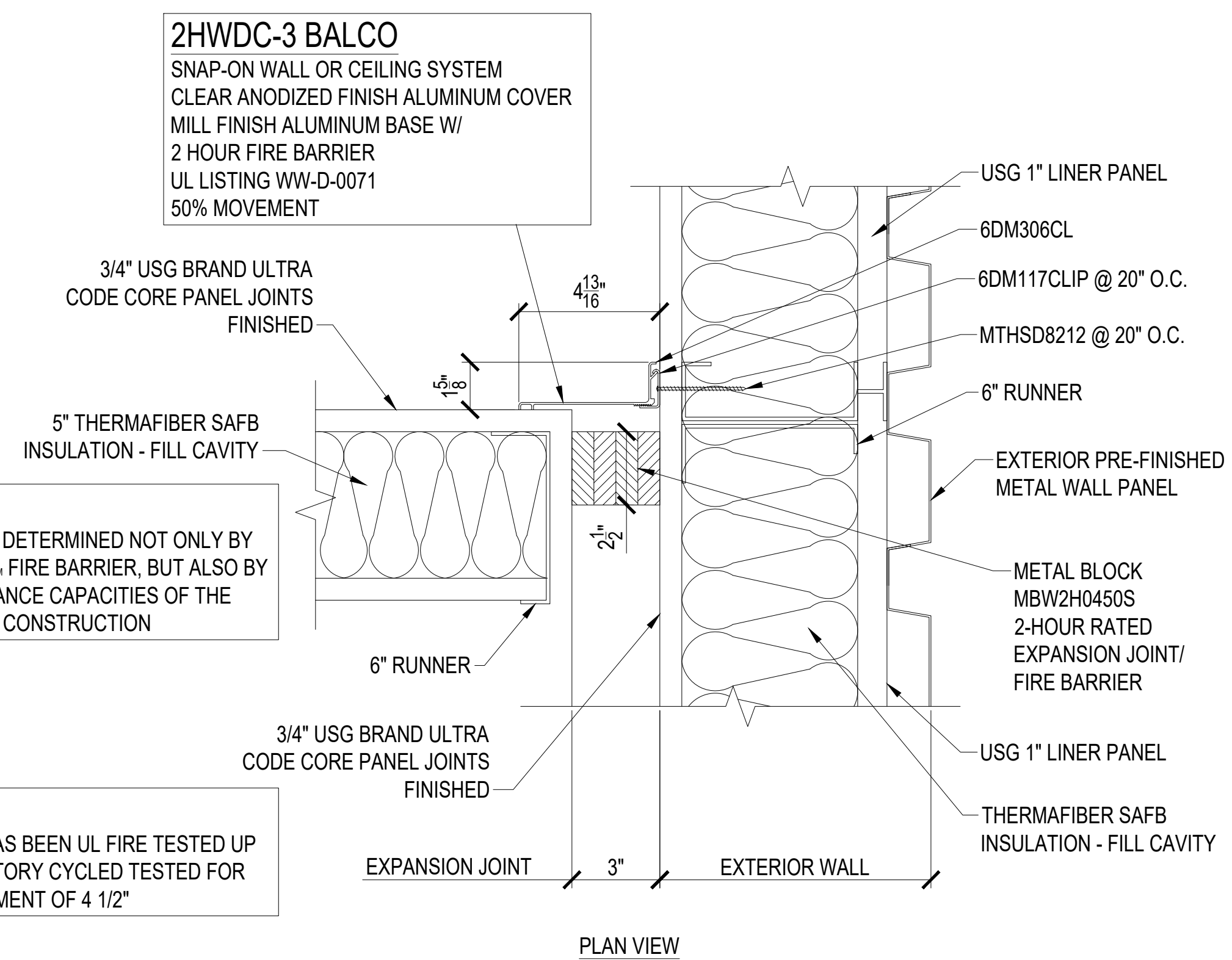
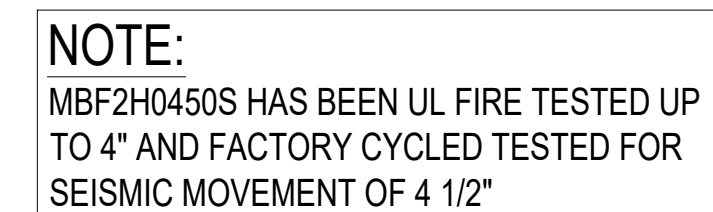
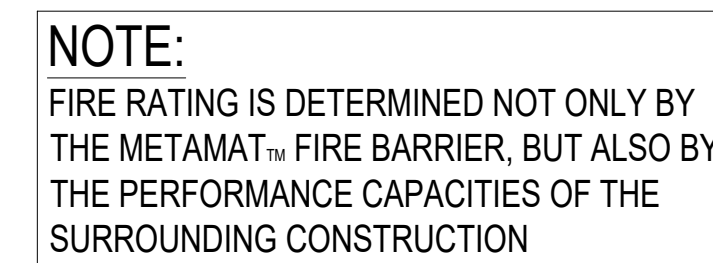
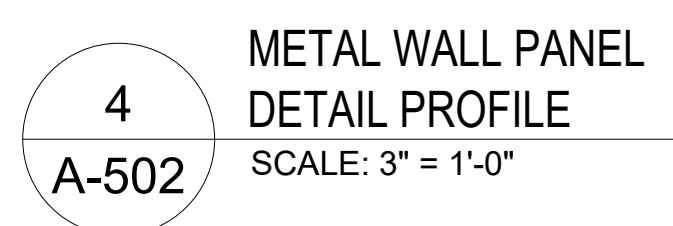
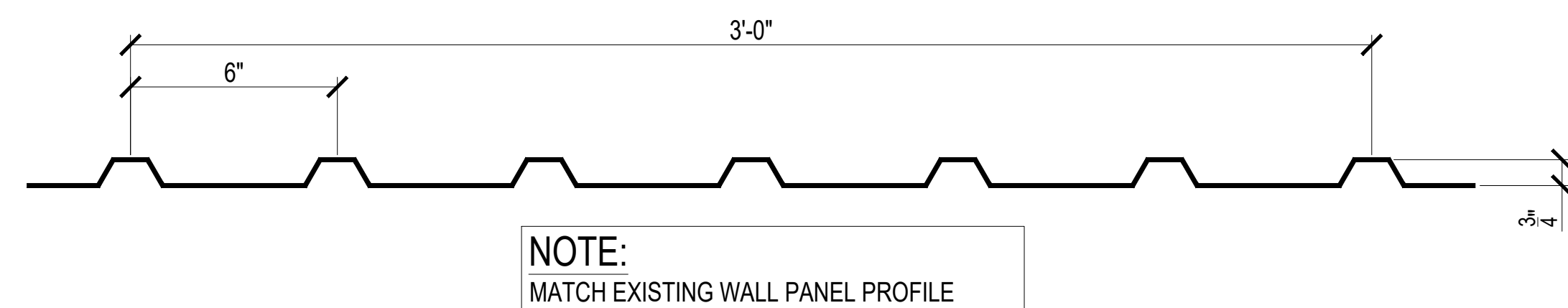
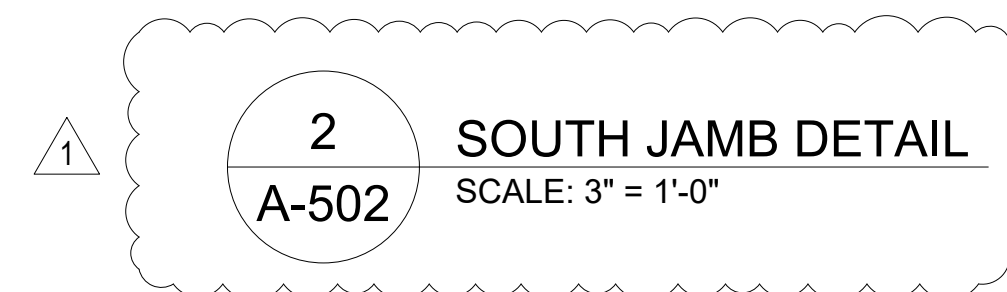
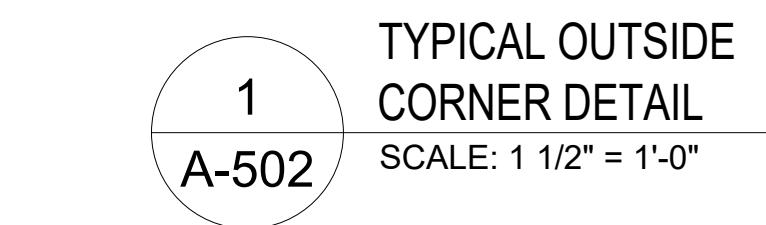
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION
WYK250063
INSTALL REACT VII FACILITY
B9001, V19
TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: J LESTER		
	DRAWN BY: T KISER		
	CHECKED BY: CHXON		
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DETAILS	
SHEET TITLE	
SHEET NUMBER	A-501
SHEET	26
OF	



KEYED NOTE

1 2HWD-2, UL LISTING: WW-D-0071, 50% MOVEMENT-BALCO COMPANY.
AT C-CHANNEL AT HEAD OF OPENING AND JAMB BY LOCATIONS COAT
STRUCTURAL STEEL W/ 1-HOUR RATED COATING OF INTUMESCENT
PAINT ON STEEL FACING 1-HOUR RATED EXPANSION JOINT.

WWWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
MARK	DATE	DESCRIPTION	
1	03 AUG 26	AMENDMENT 1	
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DETAILS

SHEET NUMBER_____

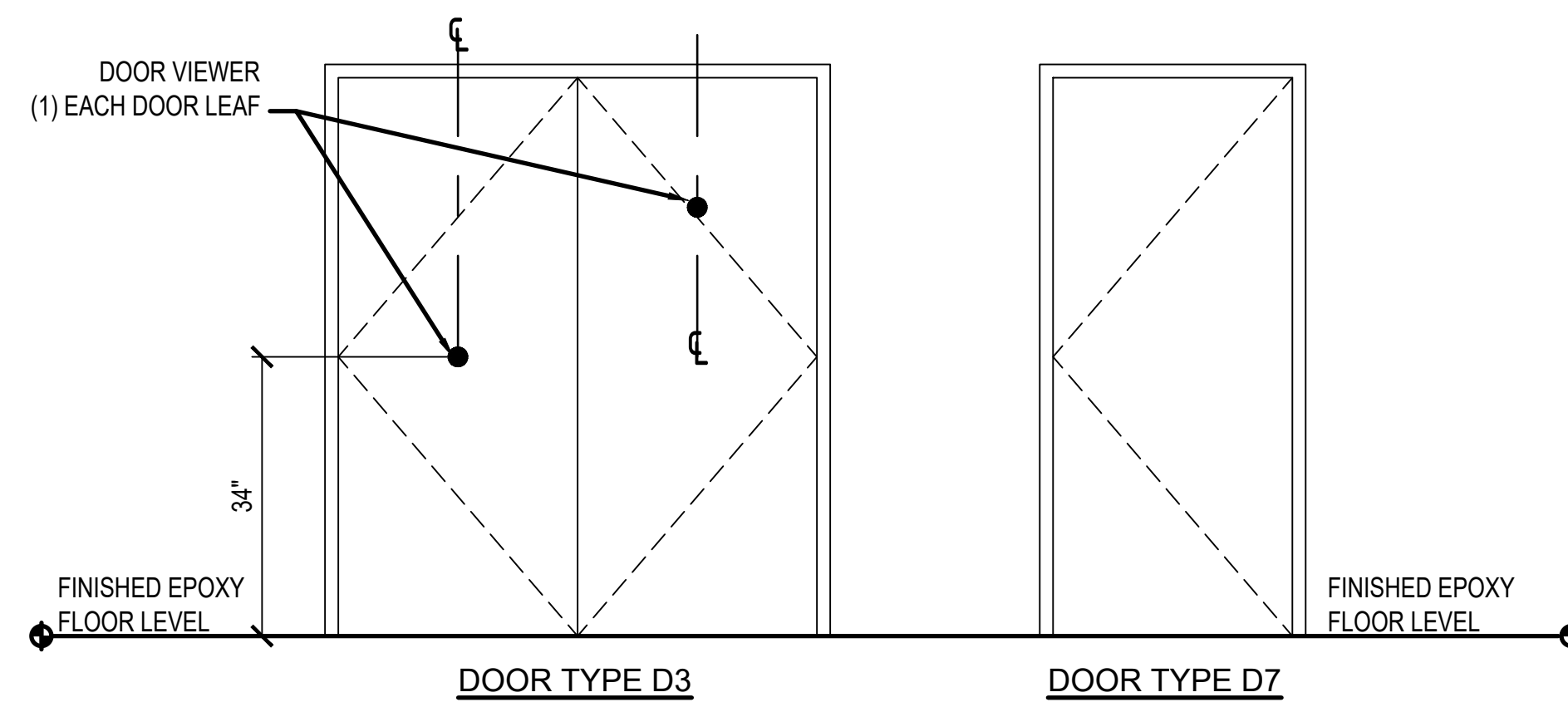
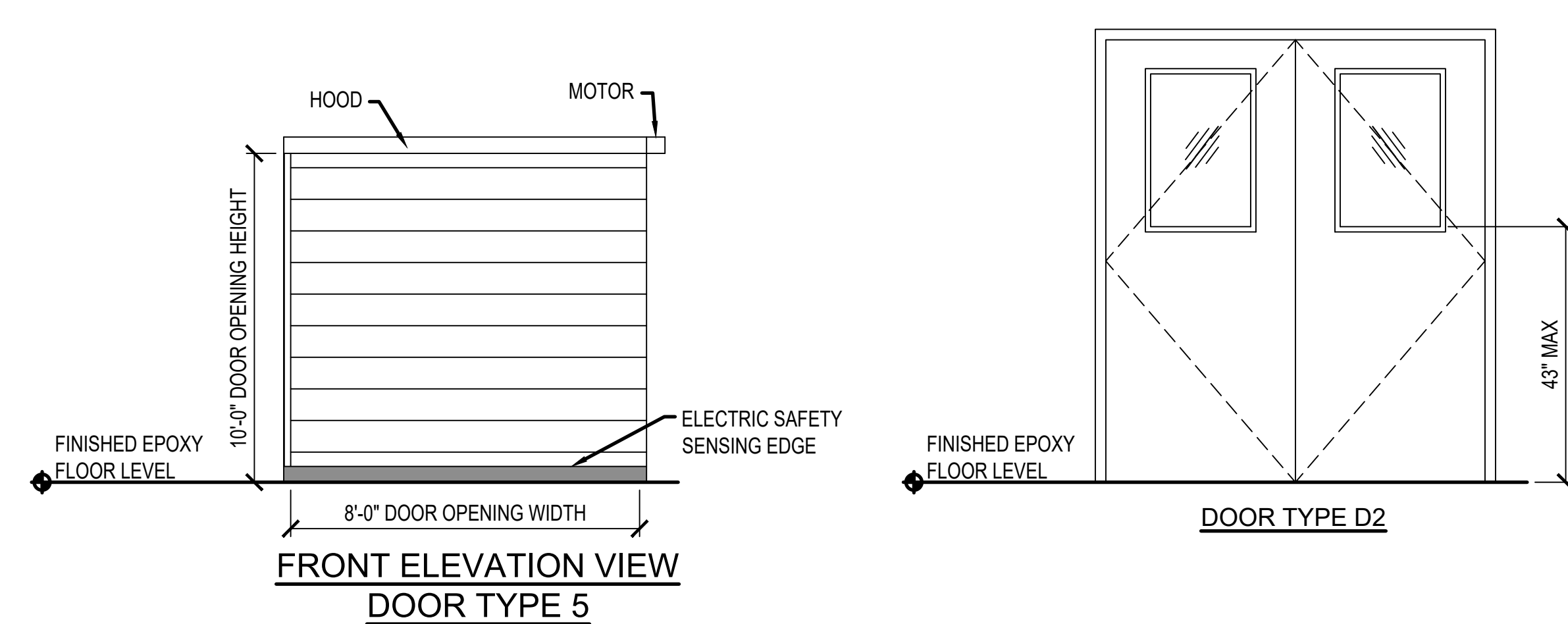
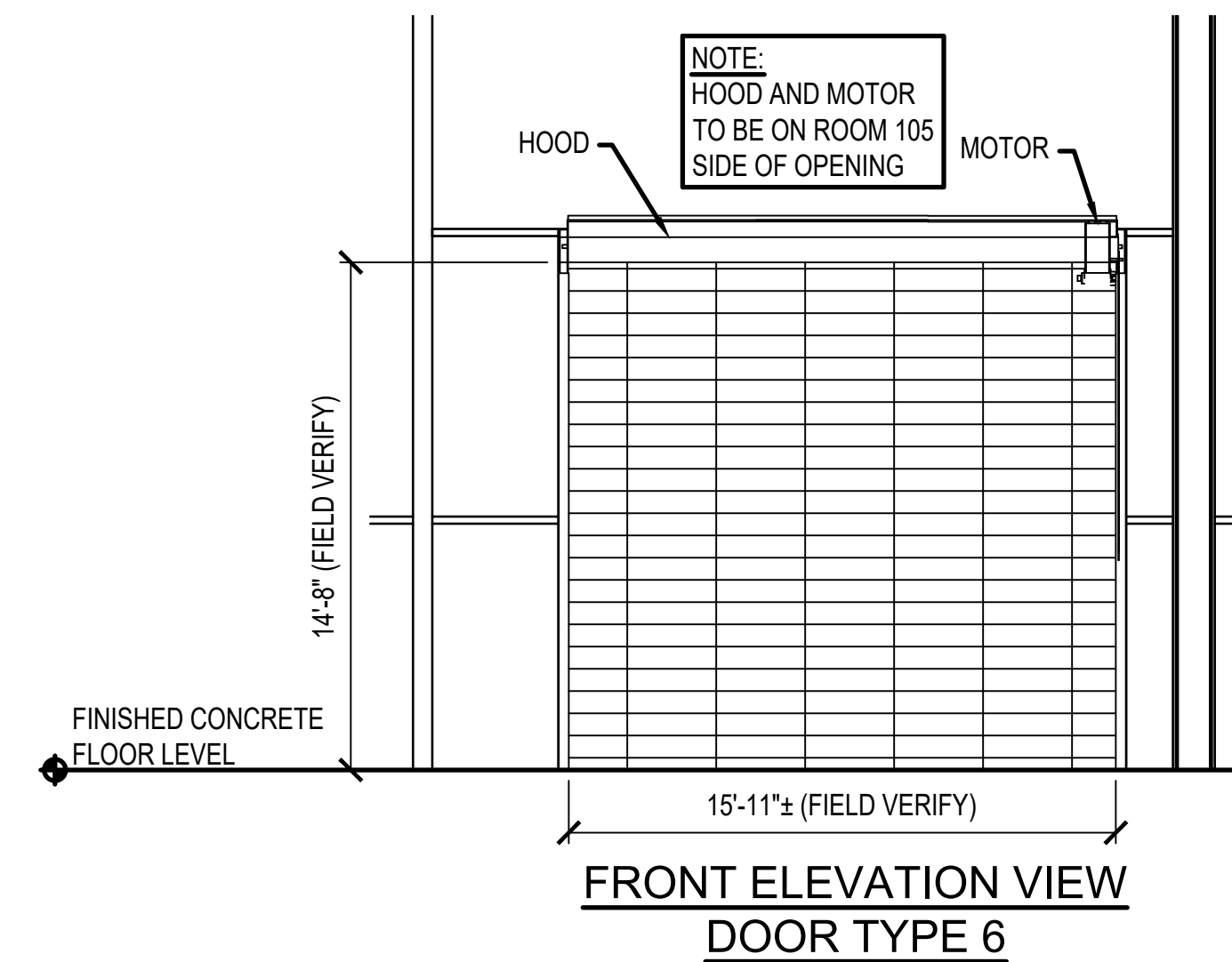
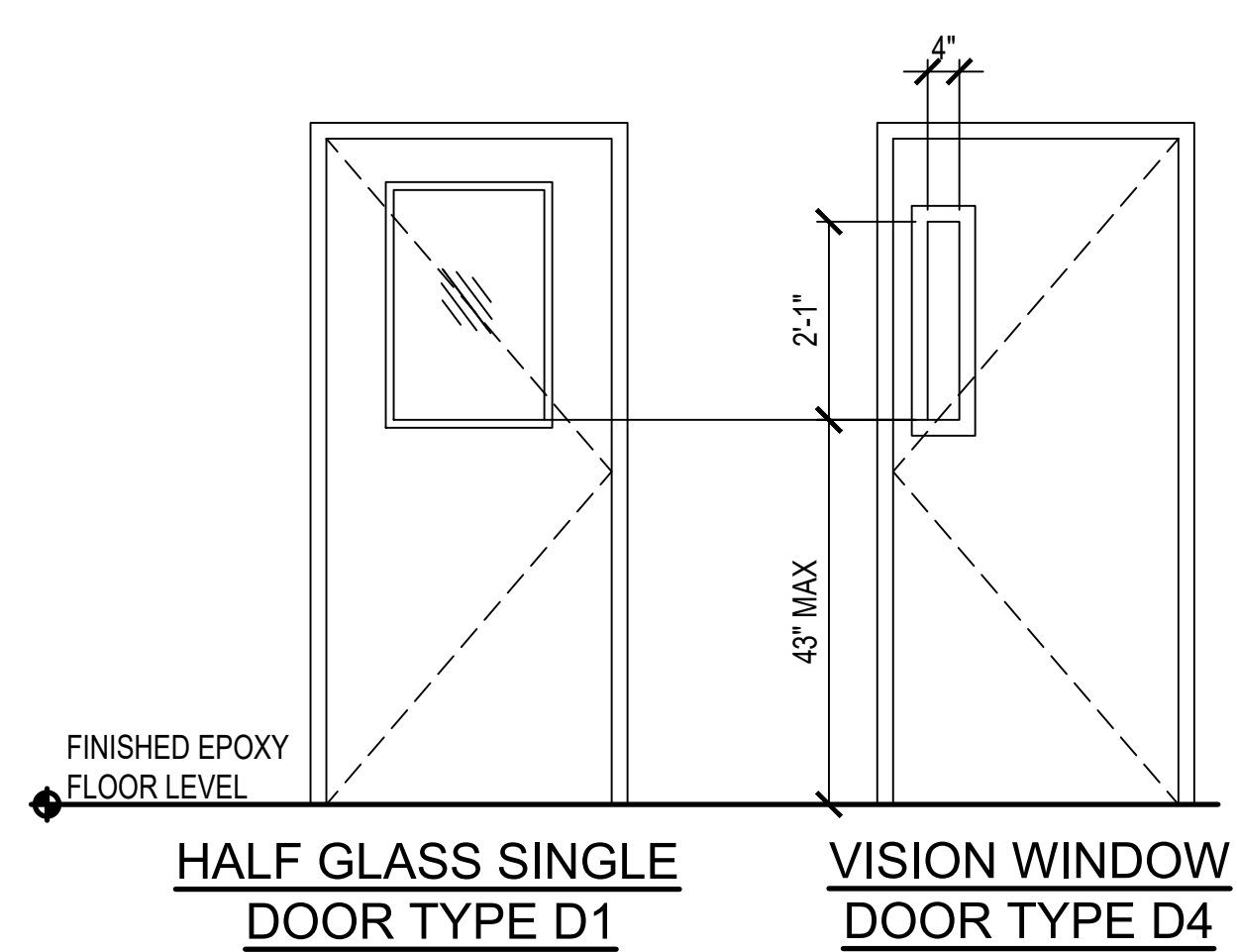
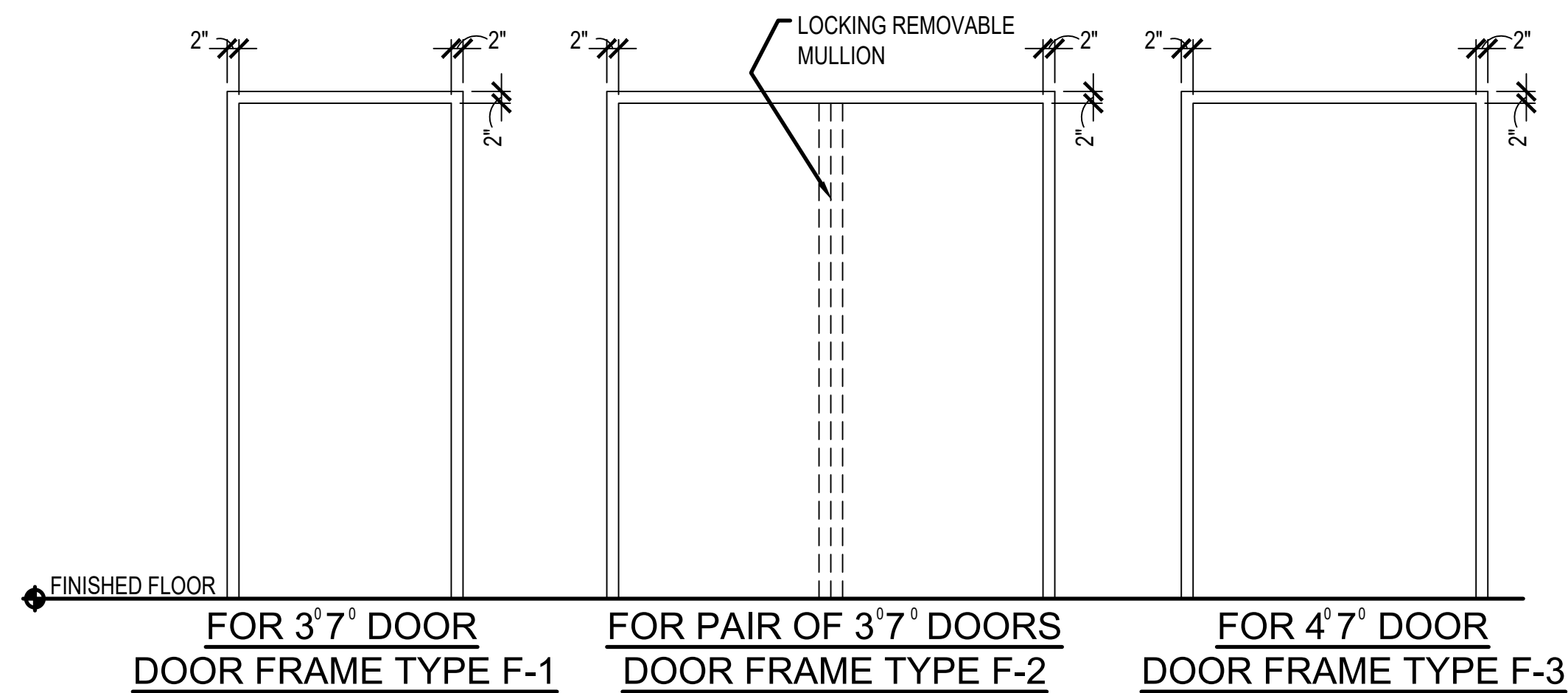
A-502

SHEET 26 OF 26

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* FIELD VERIFY
+ SUBMIT SHOP DRAWINGS

GENERAL NOTES	
1.	REFER TO ABA, 404.2, 11 VISION LIGHT REQUIREMENTS



	MARK	DATE	DESCRIPTION
	A	03 AUG 26	AMENDMENT 1
ISSUE DATE:7 OCT 25			
DESIGN GROUP:TPEA-CSAG			
DESIGNED BY:J LESTER			
DRAWN BY:T KISER			
CHECKED BY:C HIXON			
DESIGN FILE LOCATION:			
Engt\Design\2020s\2025\20250630_Support\0_3 DrawingsModel			

1

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4

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E

D

C

B

A

	DOOR			HARDWARE		SCHEDULE		
	HARDWARE GROUP 1	HARDWARE GROUP 2	HARDWARE GROUP 3	HARDWARE GROUP 4	HARDWARE GROUP 5	HARDWARE GROUP 6	HARDWARE GROUP 7	HARDWARE GROUP 8
HINGES:	1-1/2 PAIR BALL BEARING HINGES, US32D FINISH.	2 PAIR BALL BEARING HINGES PER DOOR LEAF, US32D FINISH.	2 PAIR BALL BEARING HINGES WITH NON-REMOVABLE PINS, US32D FINISH.	---	2 pair BALL BEARING HINGES PER DOOR LEAF WITH NON-REMOVABLE PINS, US32D FINISH.	2 PAIR BALL BEARING HINGES WITH NON-REMOVABLE PINS, US32D FINISH.	2 PAIR BALL BEARING HINGES PER DOOR LEAF, US32D FINISH.	---
Closer:	1 DOOR CLOSER WITH HOLD-OPEN FUNCTION.	1 DOOR CLOSER ON EACH DOOR LEAF WITHOUT HOLD OPEN FUNCTION.	1 DOOR CLOSER, WITHOUT HOLD OPEN FUNCTION.	---	1 DOOR CLOSER ON EACH DOOR LEAF WITHOUT HOLD OPEN FUNCTION.	1 DOOR CLOSER WITHOUT HOLD OPEN FUNCTION.	1 DOOR CLOSER ON EACH DOOR LEAF WITHOUT HOLD OPEN FUNCTION.	---
LOCKSET/CONTROLLER:	MORTISE OFFICE PRIVACY LOCKSET ANSIBHMA COMMERCIAL GRADE 1, WITH ANSIBABA COMPLIANT LEVER HANDLES & BEST 7 PIN COMPATABLE CORE, US26D FINISH.	NO LOCKSET	SIMPLEX 8100 MORTISE MECHANICAL 5 PUSH BUTTON COMBINATION LOCK WITH KEY OVERRIDE & BEST 7 PIN COMPATABLE CORE ON THE ROOM 105 SIDE OF THE DOOR. ANSIBABA COMPLIANT ACTIVE LEVER HANDLES AT BOTH FACES OF THE DOOR, US26D FINISH.	OVERHEAD COILING DOOR WITH HOOD AND PUSH BUTTON CONTROLLER AT EACH ROOM SIDE OF DOOR.	SIMPLEX 8100 MECHANICAL 5 PUSH BUTTON LOCK WITH KEY OVERRIDE & BEST 7 PIN COMPATABLE CORE ON NORTH DOOR LEAF ON AISLE 19 SIDE OF THE DOOR LEAF. AT THE SOUTH DOOR LEAF INSTALL A MORTISE LOCKSET WITH AN INACTIVE LEVER ON THE AISLE 19 SIDE OF THE DOOR AND AN ACTIVE LEVER ON ROOM 103 SIDE OF THE DOOR. ALL 4 LEVER HANDLES SHALL BE ANSIBABA COMPLIANT LEVER HANDLES, US26D FINISH.	SIMPLEX 8010 MECHANICAL 5 PUSH BUTTON COMBINATION EXTERIOR RATED LOCK WITH KEY OVERRIDE & BEST 7 PIN COMPATABLE CORE ON THE EXTERIOR SIDE OF THE DOOR. ANSIBABA COMPLIANT LEVER HANDLE, US26D FINISH. VON DUPRIN XP8899 RIM EXT DEVICE, BHMA 626 FINISH.	NO LOCKSET	OVERHEAD COILING DOOR WITH HOOD AND PUSH BUTTON CONTROLLER AT EACH ROOM SIDE OF DOOR.
DOOR KICK PLATE:	10"x34" KICK PLATE ON EACH FACE OF DOOR, US32D FINISH.	10"x34" KICK PLATE ON EACH FACE OF EACH DOOR LEAF, US32D FINISH.	10"x46" KICK PLATE ON EACH SIDE OF DOOR, US32D FINISH.	NONE	10"x34" KICK PLATE ON EACH FACE OF EACH DOOR LEAF, US32D FINISH.	10"x34" KICK PLATE ON ROOM 104 (INTERIOR) SIDE OF DOOR, US32D FINISH.	10"x34" KICK PLATE ON BOTH SIDES OF EACH DOOR LEAF, US32D FINISH.	NONE
DOOR PULL PLATE:	NONE	4"x16" STAINLESS STEEL (SST) PULL PLATES WITH 3/4" ROUND SST PULLS 6" CENTER TO CENTER, ANSI A 156.06, GRADE 1 ON EAST FACE OF EACH DOOR LEAF IN ROOM 103	NONE	NONE	NONE	NONE	4"x16" STAINLESS STEEL (SST) PULL PLATES WITH 3/4" ROUND SST PULLS 6" CENTER TO CENTER, ANSI A 156.06, GRADE 1 ON SOUTH FACE OF EACH DOOR LEAF IN ROOM 104	NONE
PUSH PLATE:	NONE	14"x6" SST PUSH PLATE, ANSI A 156.06, GRADE 1 ON WEST FACE OF EACH DOOR LEAF IN ROOM 102	NONE	NONE	NONE	NONE	4"x16" SST PUSH PLATE, ANSI A 156.06, GRADE 1 ON NORTH FACE OF EACH DOOR LEAF IN ROOM 103	NONE
DOOR STOP:	WALL MOUNTED DOOR STOP AT EAST WALL, REINFORCE FRAMING IN WALL.	NONE	NONE	NONE	NONE	NONE	WALL MOUNTED DOOR STOP AT WEST WALL, REINFORCE FRAMING IN WALL.	NONE
REMOVABLE LOCKING CENTER MULLION:	NONE	1	NONE	NONE	1	NONE	1	NONE
THRESHOLD:	NONE	TRANSITION STRIP FROM EPOXY FLOOR TO CARPET TILE.	NONE	NONE	NONE	NSP 896V OR EQUAL, ABA COMPLIANT THRESHOLD SET IN BED OF WEATHER RESISTANT CLEAR SILICONE SEALANT. ANCHOR TO EXISTING CONCRETE PAVEMENT, UL RATED FOR USE WITH 90 MINUTE FIRE RATED DOOR/FRAME ASSEMBLY, ANSI IUL 10C.	NONE	NONE
DOOR BOTTOM / SWEEP:	NONE	1 EACH PER DOOR LEAF, 36" FULL MORTISE AUTOMATIC DOOR BOTTOM, ALUMINUM MILL FINISH, WITH 2 RUBBER SEALS EACH, AIR INFILTRATION TESTED	1-48" FULL MORTISE AUTOMATIC DOOR BOTTOM, AIR INFILTRATION TESTED.	ELECTRIC SENSING SAFETY EDGE.	1 EACH PER DOOR LEAF, 36" FULL MORTISE AUTOMATIC DOOR BOTTOM, ALUMINUM MILL FINISH, AIR INFILTRATION TESTED	1-36" FULL MORTISE AUTOMATIC DOOR BOTTOM, AIR INFILTRATION TESTED.	1- EACH PER DOOR LEAF, 36" FULL MORTISE AUTOMATIC DOOR BOTTOM, ALUMINUM MILL FINISH, AIR INFILTRATION TESTED	ELECTRIC SENSING SAFETY EDGE.
DOOR GASKET:	NONE	National Guard 5100 ADHESIVE MULLION SEAL, AT JAMBS & HEAD, Pemko S88 SYSTEM, OR APPROVED EQUAL.	AT JAMBS & HEAD, Pemko S88 SYSTEM, OR APPROVED EQUAL.	REPLACEABLE SMOKE SEAL PERIMETER GASKETS, UL 10 COMPLIANT.	National Guard 5100 ADHESIVE MULLION SEAL, AT JAMBS & HEAD, Pemko S88 SYSTEM, OR APPROVED EQUAL.	AT JAMBS & HEAD, Pemko S88 SYSTEM, OR APPROVED EQUAL.	National Guard 5100 ADHESIVE MULLION SEAL, AT JAMBS & HEAD, Pemko S88 SYSTEM, OR APPROVED EQUAL.	REPLACEABLE SMOKE SEAL PERIMETER GASKETS, UL 10 COMPLIANT.
DOOR SILENCER:	3- EACH AT STRIKE SIDE OF DOOR JAMB.	2- EACH AT EACH DOOR LEAF AT THE DOOR FRAME HEAD.	3- EACH AT STRIKE SIDE OF DOOR JAMB.	NONE	2- EACH FOR EACH DOOR LEAF AT THE DOOR FRAME HEAD.	3 EACH AT STRIKE SIDE OF DOOR JAMB.	2- EACH AT EACH DOOR LEAF AT THE DOOR FRAME HEAD.	NONE
DRIP STOP:	NONE	NONE	NONE	NONE	NONE	DOOR FRAME HEAD RAIN DRIP GUARD. DRIP CAP, DOOR BOTTOM DRIP GUARD AT BOTTOM OF EXTERIOR FACE OF DOOR.	NONE	NONE
HARDWARE FINISH UNLESS OTHERWISE NOTED:	US32D	US32D	US32D	---	US32D	US32D	US32D	---
DOOR VIEWER:	NONE	NONE	NONE	NONE	190° ONE-WAY WIDE ANGLE DOOR VIEWER UL LISTED, FIRE RATED TO 90 MINUTES, 1 FOR EACH DOOR LEAF, 626 SATIN CHROME FINISH	NONE	NONE	NONE
NOTE No. 1:	DOOR CLOSER MOUNTED ON ROOM 102 SIDE OF DOOR.	DOOR CLOSERS MOUNTED ON ROOM 102 SIDE OF DOOR.	NON- HOLD OPEN CLOSER MOUNTED ON ROOM 103 SIDE OF DOOR.	PROVIDE DOORS WITH UL "S" LABEL IN ADDITION TO THE FIRE DOOR LABEL TO CERTIFY SMOKE CONTROL.	NON- HOLD OPEN CLOSERS MOUNTED ON ROOM 103 SIDE OF EACH DOOR LEAF.	NON- HOLD OPEN CLOSER MOUNTED ON ROOM 104 SIDE OF DOOR.	DOOR CLOSERS MOUNTED ON ROOM 103 SIDE OF DOOR.	---
NOTE No. 2:	DOOR 101 IS IN A NON-FIRE-RATED WALL ASSEMBLY.	DOOR 102 IS IN A NON-FIRE-RATED WALL ASSEMBLY.	DOOR 103 IS IN A 2-HOUR RATED WALL ASSEMBLY.	DOOR 103A IS IN A 2-HOUR RATED WALL ASSEMBLY.	DOOR 103B IS IN A 2-HOUR RATED WALL ASSEMBLY.	DOOR 104 IS IN A 2-HOUR RATED SECTION OF THE EXTERIOR WALL.	DOOR 104A IS IN A NON-FIRE-RATED WALL ASSEMBLY.	DOOR 105 IS IN A 1-HOUR FIRE-RATED WALL ASSEMBLY
NOTE No. 3:	---	---	DOOR HARDWARE TO MEET 90 MINUTE FIRE RATING REQUIREMENTS.	DOOR SYSTEM TO MEET 90 MINUTE FIRE RATING REQUIREMENTS.	DOOR HARDWARE TO MEET 90 MINUTE FIRE RATING REQUIREMENTS.	DOOR HARDWARE TO MEET 90 MINUTE FIRE RATING REQUIREMENTS.	---	---
DOOR LOCATION:	101	102	103	103A	103B	104	104A	105

3'-0" FRAME OPENING WIDTH

2" FRAME

4'-0" FRAME OPENING HEIGHT

3'-0"

FINISHED EPOXY FLOOR LEVEL

GLAZING AS SCHEDULED PER CODE

ALIGN WITH TOP OF DOOR FRAME

W-1

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING BELOW ROOF PRAMONG	ROOM CEILING	UPPER CEILING	COMMENTS
101	OFFICE-1	CT OVER EP-1	B-1	PT-1	PT-2, CLG-2	CLG-1	CLG-2, PT-2	CARPET OVER EPOXY FLOOR
102	OFFICE-2	CT OVER EP-1	B-1	PT-1	PT-2, CLG-2	CLG-1	CLG-2, PT-2	CARPET OVER EPOXY FLOOR
103	MATERIAL TESTING ROOM - 1	EP1	B-1	PT-1	PT-2, CLG-2	CLG-1	CLG-2, PT-2	EPOXY FLOOR
104	MATERIAL TESTING ROOM - 2	EP1	B-1	PT-1	PT-2, CLG-2	CLG-1	CLG-2, PT-2	EPOXY FLOOR
EXPOSED EXT. WALLS			B-1	PT-1				
PT-1	SHERWIN WILLIAMS HIGH REFLECTIVE WHITE PROMAR 200 ZEROVOC INTERIOR LATEX WITH 'EGGSHELL' SHEEN, FINISH LEVEL 4							
PT-2	SHERWIN WILLIAMS HIGH REFLECTIVE WHITE PROMAR 200 ZEROVOC INTERIOR LATEX WITH 'EGGSHELL' SHEEN, FINISH LEVEL 4 WITH ORANGE PEEL FINISH FULL HEIGHT OF WALL.							
B-1	4 1/2" ROPPE BLACK 1/8" VINYL COVE WALL BASE							
CLG-1	2X2 ACOUSTICAL GRID CEILING							
CLG-2	5/8" GYPSUM BOARD TAPE & BED FINISH LEVEL 4.							
CT	CARPET TILE OVER EPOXY FLOOR (EP-1)							
EP-1	EPOXY FLOOR SYSTEM - FULL FOOTPRINT OF REACT VII TO CENTERLINE OF PERIMETER WALLS. AT EAST REACT VII WALL, FINISH TO EXTENT TO WHITELINE AT AISLE 19 OR TO WEST SIDE OF EXISTING WALL ALONG AISLE 19							

WINDOW

WINDOW NUMBER	TYPE	WIDTH	HEIGHT	GLAZING	FRAME	FUNCTION	WALL DEPTH
101	W1	3'-0"	4'-0"	TEMPERED	WELDED ALM WITH STOPS	FIXED	5 1/4"

PROJECT INFORMATION

WYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION
1	03 AUG 26	AMENDMENT 1

MANAGEMENT INFORMATION

ISSUE DATE: 07 OCT 25
DESIGN GROUP: TEPA-CSAG
DESIGNED BY: J LESTER
DRAWN BY: T KISER
CHECKED BY: CHIXON
DESIGN FILE LOCATION:
Engr\Design\2020s\2025\20250063\0_Support\0_3_DrawingsModel

WINDOW AND DOOR SCHEDULES

SHEET NUMBER
A-602

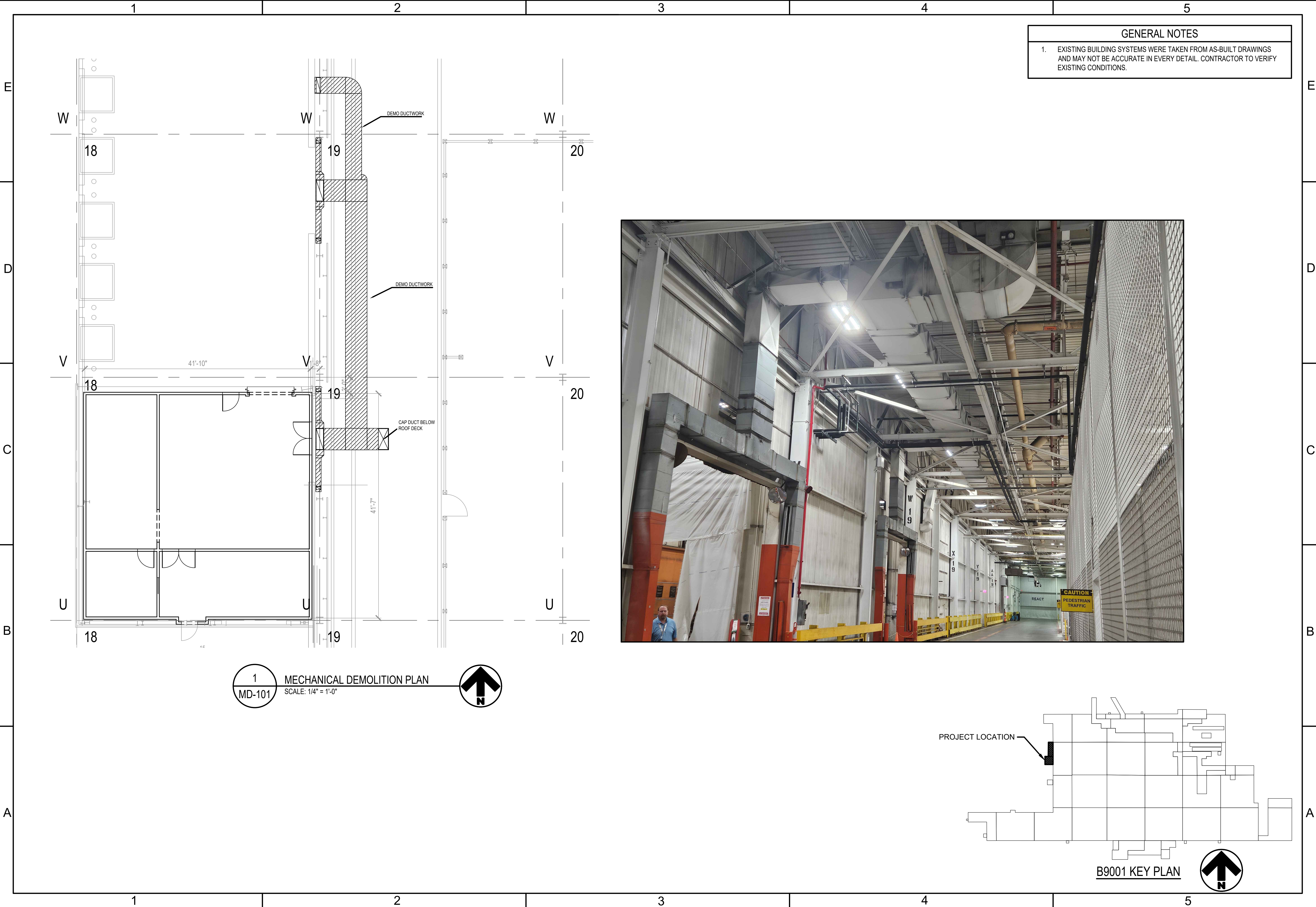
SHEET 29 OF

SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—AW—	ACID WASTE		RISER DOWN (ELBOW)		UNION		90 DEGREE RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES
—AV—	ACID VENT		RISER UP (ELBOW)		FLEXIBLE PIPE CONNECTION		90 DEGREE ROUND ELBOW, HORIZONTAL
—SS—	SOIL OR WASTE		RISE OR DROP		WATER HAMMER ARRESTOR		45 DEG. RECTANGULAR BEND
—GT—	GREASE TRAP WASTE		TEE DOWN				45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
—VENT—	SOIL OR WASTE VENT		TEE UP				45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
—RD—	ROOF DRAIN LINE		TOP CONNECTION		TEMPERATURE/HUMIDITY SENSOR		ROUND PRESSURE TAP WITH VOLUME DAMPER
—SD—	STORM DRAIN		BOTTOM CONNECTION		AREA DRAIN		
—G—	NATURAL GAS, LOW PRESS		SIDE CONNECTION		ROOF DRAIN		STRAIGHT SIDED BRANCH SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.
—MG—	NATURAL GAS, MED PRESS		GATE VALVE		TEMPERATURE/HUMIDITY SENSOR		BRANCH SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.
—DCW—	DOMESTIC COLD WATER		BALANCING VALVE		ROOF DRAIN		WYE SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.
—110°F—	DOMESTIC HOT WATER (110°F)		PLUG COCK/GAS STOP		TEMPERATURE/HUMIDITY SENSOR		
—HWR—	DOMESTIC HOT WATER RETURN		CHECK VALVE		TEMPERATURE/HUMIDITY SENSOR		END CAPS
—140°F—	DOMESTIC HOT WATER (140°F)		BALL VALVE		TEMPERATURE/HUMIDITY SENSOR		F= FALL IN DUCT ELEV R= RISE IN DUCT ELEV
—FP—	FIRE PROTECTION WATER SUPPLY		SOLENOID VALVE		TEMPERATURE/HUMIDITY SENSOR		
—SP—	SPRINKLER MAIN		BUTTERFLY VALVE		TEMPERATURE/HUMIDITY SENSOR		
—S—	STEAM, LOW PRESS 0-15 PSI		PRESSURE REDUCING VALVE		TEMPERATURE/HUMIDITY SENSOR		
—MPS—	STEAM, MED PRESS 16-124 PSI		TRIPLE DUTY VALVE		TEMPERATURE/HUMIDITY SENSOR		
—HPS—	STEAM, HIGH PRESS 125 & ABOVE		NEEDLE VALVE		TEMPERATURE/HUMIDITY SENSOR		
—C—	CONDENSATE, LOW PRESS 0-15 PSI		CONTROL VALVE, 2 WAY PNEUMATIC		TEMPERATURE/HUMIDITY SENSOR		
—MPC—	CONDENSATE, MED PRESS 16-124 PSI		CONTROL VALVE, 3 WAY PNEUMATIC		TEMPERATURE/HUMIDITY SENSOR		
—HPC—	CONDENSATE, HIGH PRESS 125 PSI & ABOVE		CONTROL VALVE, 3 WAY PNEUMATIC		TEMPERATURE/HUMIDITY SENSOR		
—CP—	CONDENSATE, PUMPED		CONTROL VALVE, 2 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—FST—	FLASH STEAM		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—BFW—	BOILER FEED WATER		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—BD—	BLOWDOWN, BOILER, COOLING TOWER, ETC		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—BO—	BOILER BLOWOFF: RELIEF VALVE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CHS—	CHILLED WATER SUPPLY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CHR—	CHILLED WATER RETURN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—HS—	HEATING WATER SUPPLY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—HR—	HEATING WATER RETURN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CS—	CONDENSER WATER SUPPLY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CR—	CONDENSER WATER RETURN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CD—	CONDENSATE DRAIN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—FOS—	FUEL OIL SUPPLY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—FOR—	FUEL OIL RETURN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—FOV—	FUEL OIL VENT		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—RL—	REFRIGERANT LIQUID		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—RS—	REFRIGERANT SUCTION		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—RG—	REFRIGERANT GAS		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CF—	CHEMICAL FEED		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—AF—	ACID FEED		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—SW—	SOFT WATER		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—DS—	DISTILLED WATER		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—DI—	DEMINERALIZED OR DEIONIZED WATER		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—PCW—	PROCESS COLD WATER		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CA—	COMPRESSED AIR		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—BA—	COMPRESSED AIR, BREATHING AIR		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—LA—	COMPRESSED AIR, LABORATORY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—PA—	COMPRESSED AIR, PLANT		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—DV—	DRY VACUUM, HOUSEKEEPING		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—WV—	WET VACUUM, HOUSEKEEPING		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—V—	VACUUM, MEDICAL		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—LV—	VACUUM, LABORATORY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—DWS—	CHILLED DRINKING WATER SUPPLY		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—DWR—	CHILLED DRINKING WATER RETURN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—OX—	OXYGEN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—N—	NITROGEN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—NO—	NITROUS OXIDE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—H—	HYDROGEN		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—Ar—	ARGON		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—He—	HELIUM		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CO ₂ —	CARBON DIOXIDE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—CH ₄ —	METHANE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—HCL—	HYDROGEN CHLORIDE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		
—F—	FLUORINE		CONTROL VALVE, 3 WAY ELECTRIC		TEMPERATURE/HUMIDITY SENSOR		

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CLEANOUT PLUG		CLEANOUT, FLOOR		CLEANOUT, WALL		VACUUM BREAKER
	CLEANOUT, FLOOR		CLEANOUT, WALL		VACUUM BREAKER		HOSE BIBB
	CLEANOUT, WALL		VACUUM BREAKER		HOSE BIBB		WALL HYDRANT
	VACUUM BREAKER		HOSE BIBB		WALL HYDRANT		YARD HYDRANT
	HOSE BIBB		WALL HYDRANT		YARD HYDRANT		FLOW IN DIRECTION OF ARROW
	WALL HYDRANT		YARD HYDRANT		FLOW IN DIRECTION OF ARROW		PIPE SLOPE IN DIRECTION OF ARROW
	YARD HYDRANT		FLOW IN DIRECTION OF ARROW		PIPE SLOPE IN DIRECTION OF ARROW		PRESSURE AND TEMPERATURE TEST PLUG (PETES PLUG)
	FLOW IN DIRECTION OF ARROW		PIPE SLOPE IN DIRECTION OF ARROW		PRESSURE AND TEMPERATURE TEST PLUG (PETES PLUG)		TEMPERATURE INDICATOR
	PIPE SLOPE IN DIRECTION OF ARROW		PRESSURE AND TEMPERATURE TEST PLUG (PETES PLUG)		TEMPERATURE INDICATOR		THERMOMETER WELL
	PRESSURE AND TEMPERATURE TEST PLUG (PETES PLUG)		TEMPERATURE INDICATOR		THERMOMETER WELL		PRESSURE GAUGE WITH GAUGE COCK & SNUBBER
	TEMPERATURE INDICATOR		THERMOMETER WELL		PRESSURE GAUGE WITH GAUGE COCK & SNUBBER		AIR VENT, AUTOMATIC
	THERMOMETER WELL		PRESSURE GAUGE WITH GAUGE COCK & SNUBBER		AIR VENT, AUTOMATIC		FREE AIR VOLUME
	PRESSURE GAUGE WITH GAUGE COCK & SNUBBER		AIR VENT, AUTOMATIC		FREE AIR VOLUME		COMPRESSED AIR VOLUME
	AIR VENT, AUTOMATIC		FREE AIR VOLUME		COMPRESSED AIR VOLUME		
	FREE AIR VOLUME		COMPRESSED AIR VOLUME				
	COMPRESSED AIR VOLUME						

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	UNION		FLEXIBLE PIPE CONNECTION		WATER HAMMER ARRESTOR		90 DEGREE RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES
	FLEXIBLE PIPE CONNECTION		WATER HAMMER ARRESTOR		90 DEGREE RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES		90 DEGREE ROUND ELBOW, HORIZONTAL
	WATER HAMMER ARRESTOR		90 DEGREE RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES		90 DEGREE ROUND ELBOW, HORIZONTAL		45 DEG. RECTANGULAR BEND
	90 DEGREE RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES		90 DEGREE ROUND ELBOW, HORIZONTAL		45 DEG. RECTANGULAR BEND		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	90 DEGREE ROUND ELBOW, HORIZONTAL		45 DEG. RECTANGULAR BEND		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
	45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS		45 DEG. RECTANGULAR BEND, 1-1/2 RADIUS
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GENERAL NOTES

1. EXISTING BUILDING SYSTEMS WERE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE ACCURATE IN EVERY DETAIL. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



AIR FORCE MATERIAL COMMAND
72 AIRV CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: S. SEXTON		
	DRAWN BY: T. KISER		
	CHECKED BY: C. HIXON		
DESIGN FILE LOCATION: Engr\Design\2025\202506310_Support\0_3_Drawings\Model			

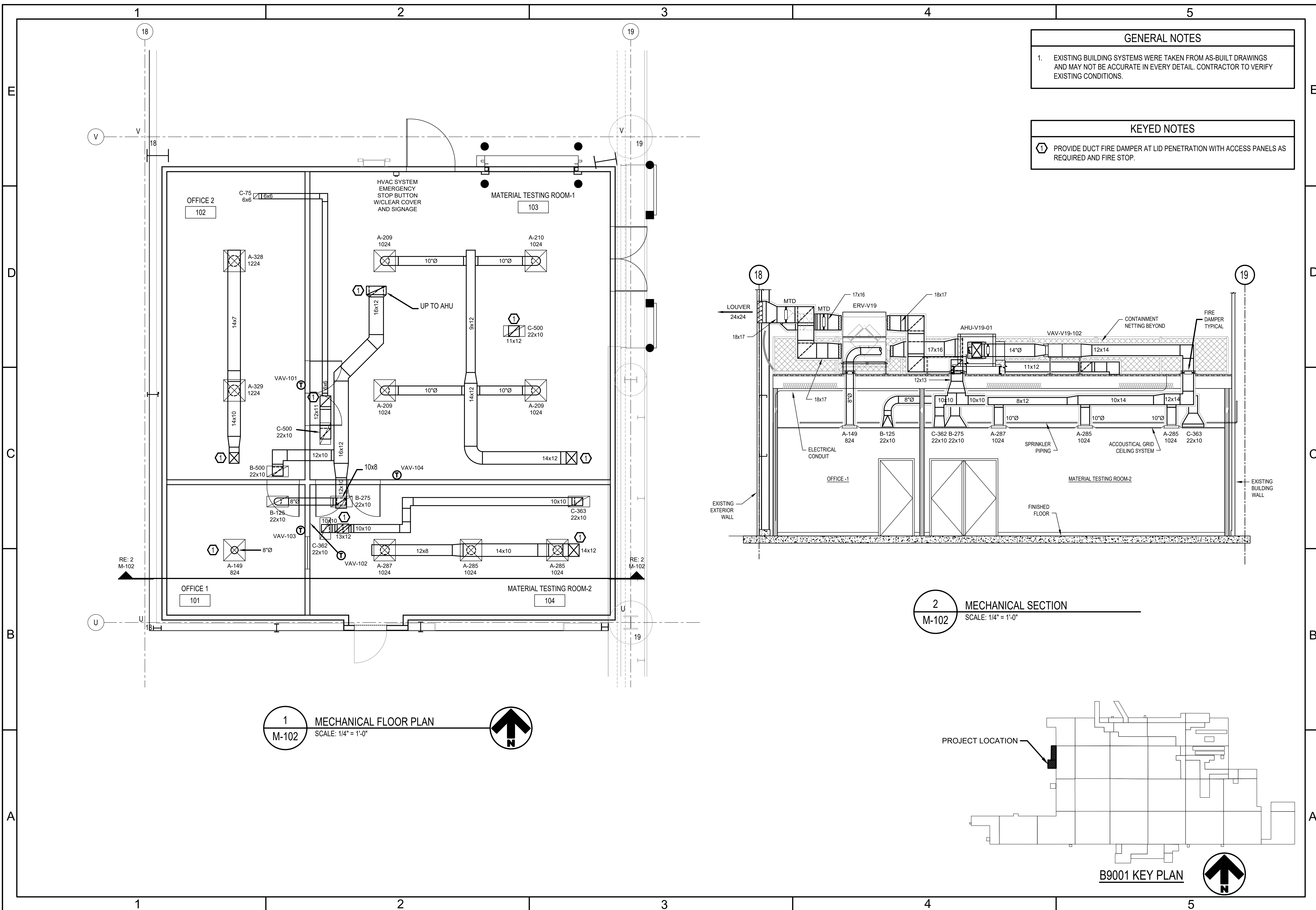
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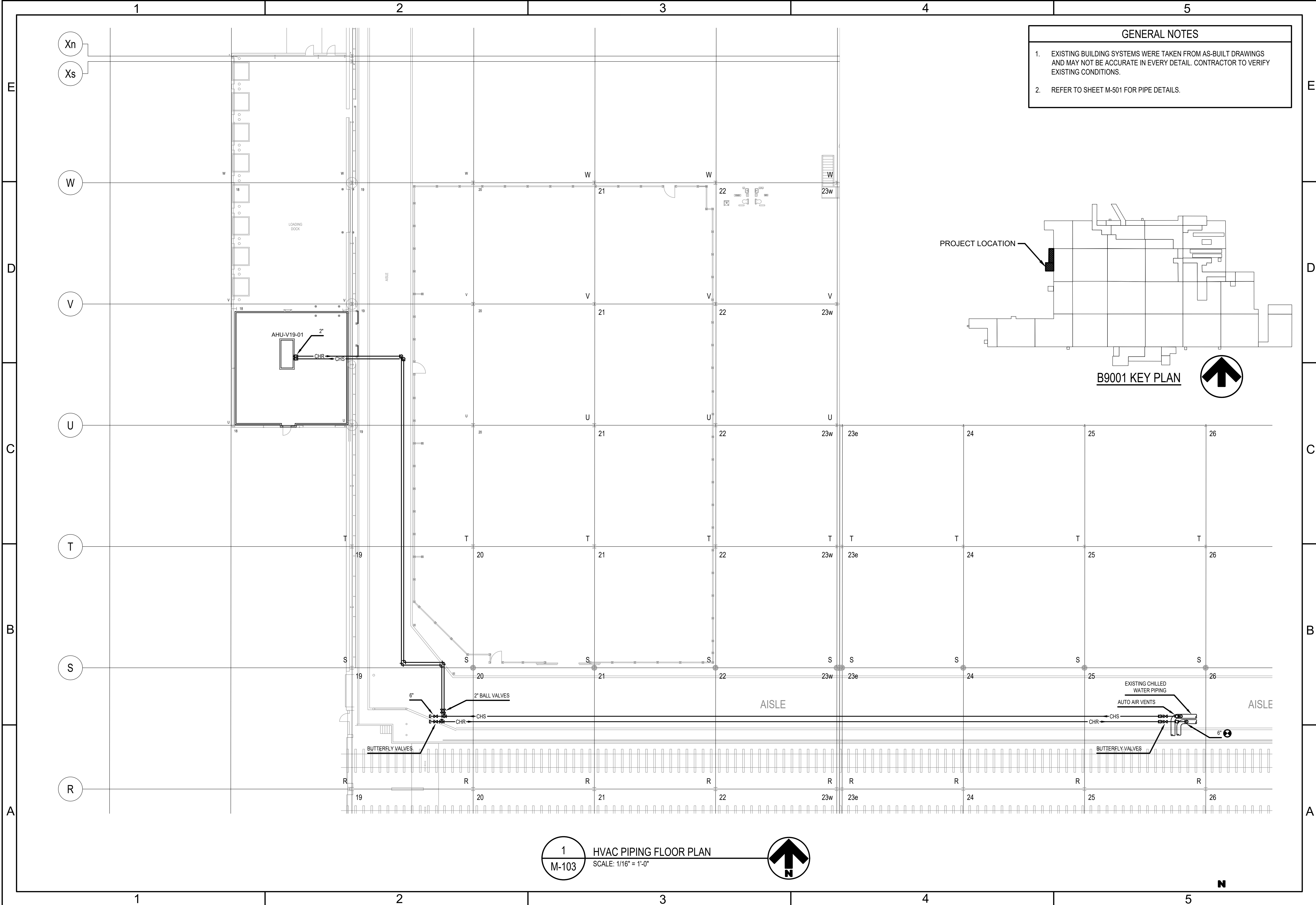
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER

MD-101

SHEET 31 OF 31







AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

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INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE	DATE	MARK	DESCRIPTION
ISSUE DATE	7 OCT 25		
DESIGN GROUP	TEPA-CSAG		
DESIGNED BY	S SEXTON		
DRAWN BY	T KUSER		
CHECKED BY	CHIXON		
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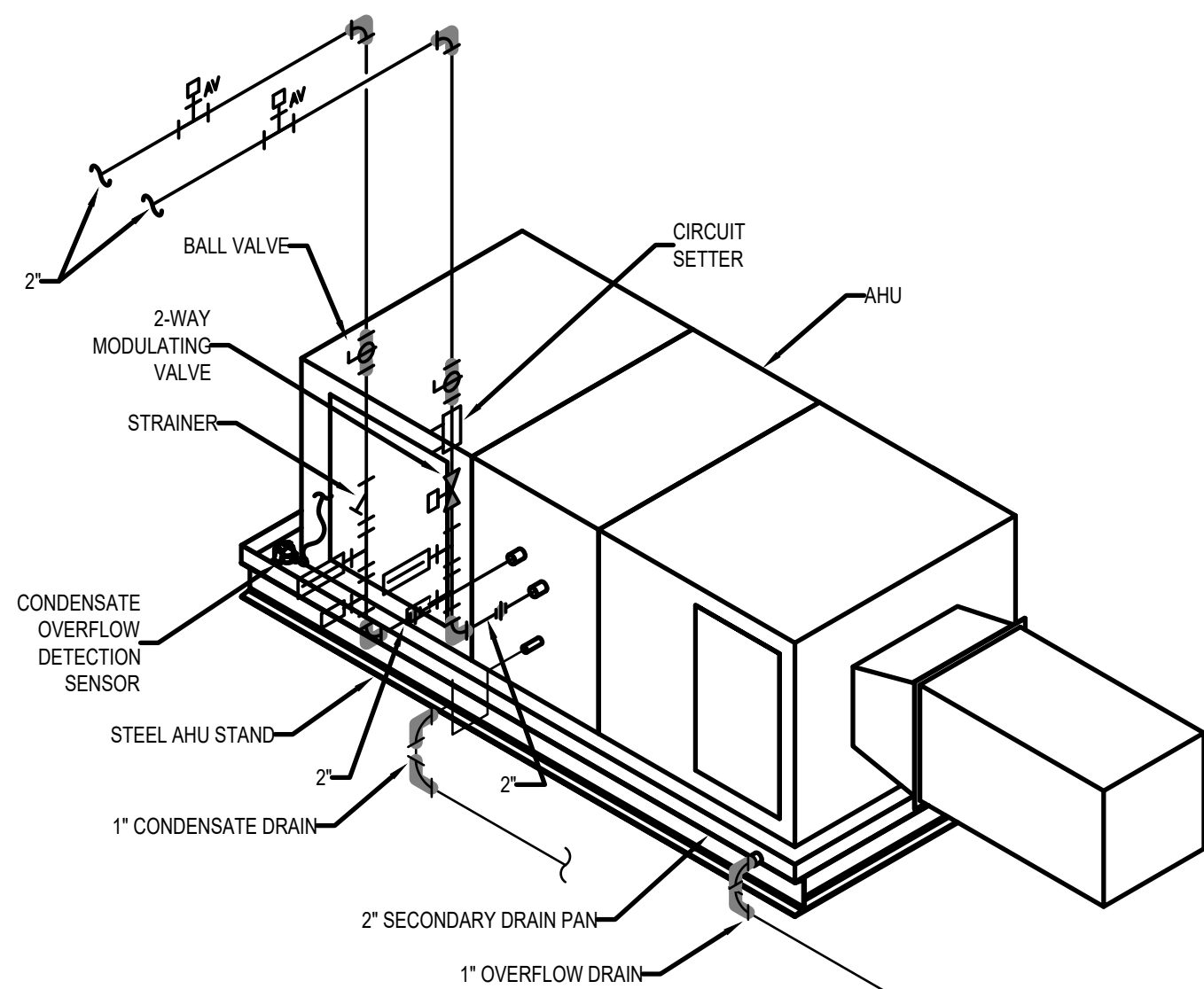
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HVAC PIPING
FLOOR PLAN

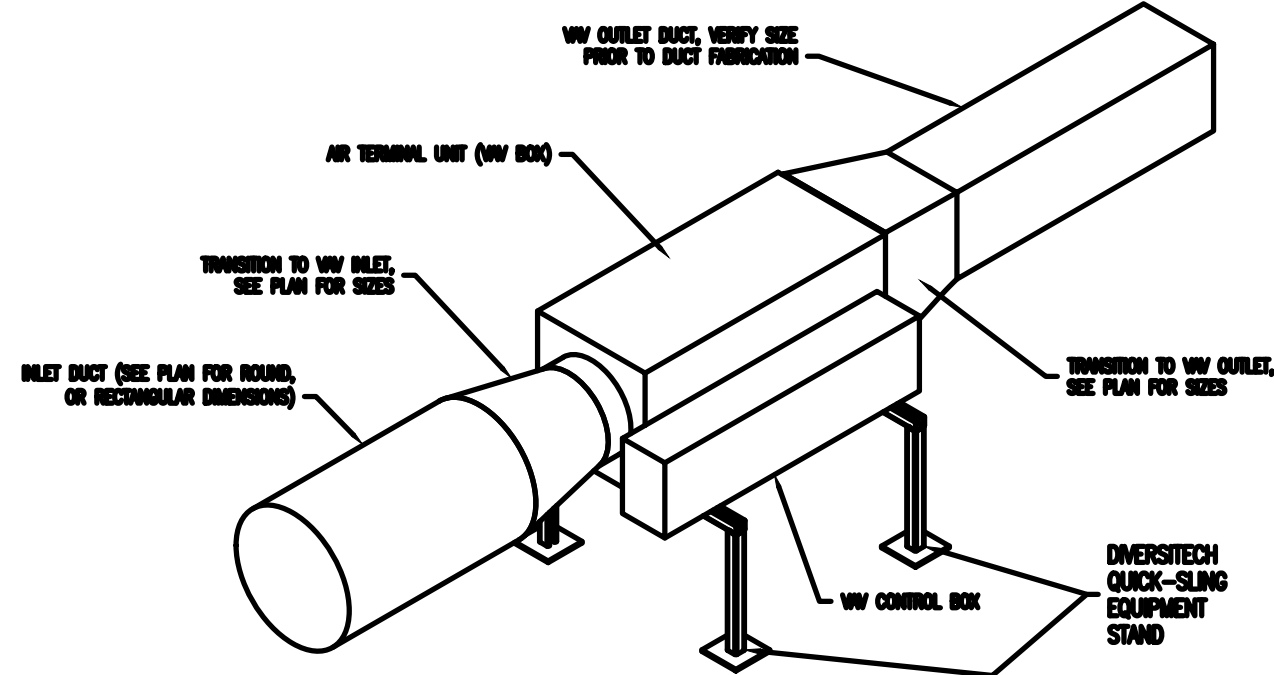
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M-103

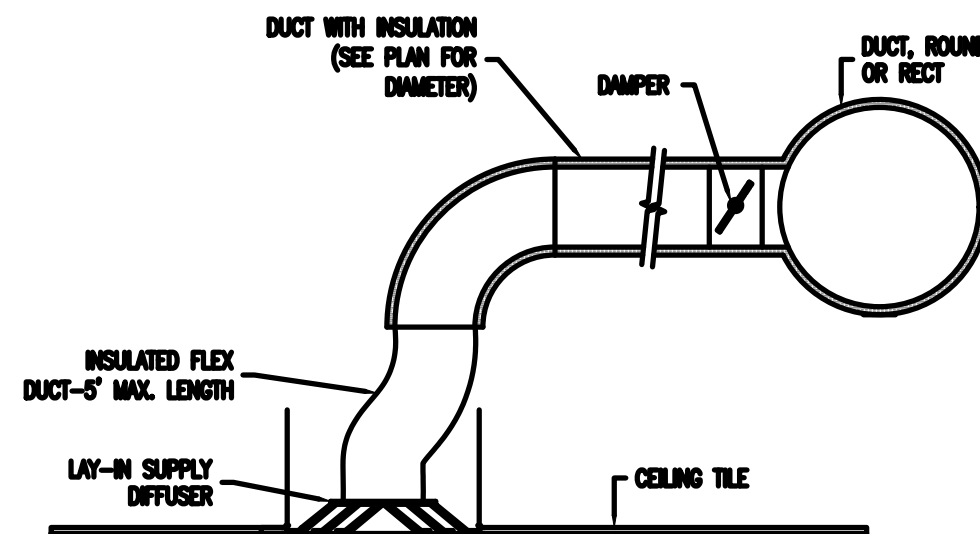
SHEET 34 OF 34



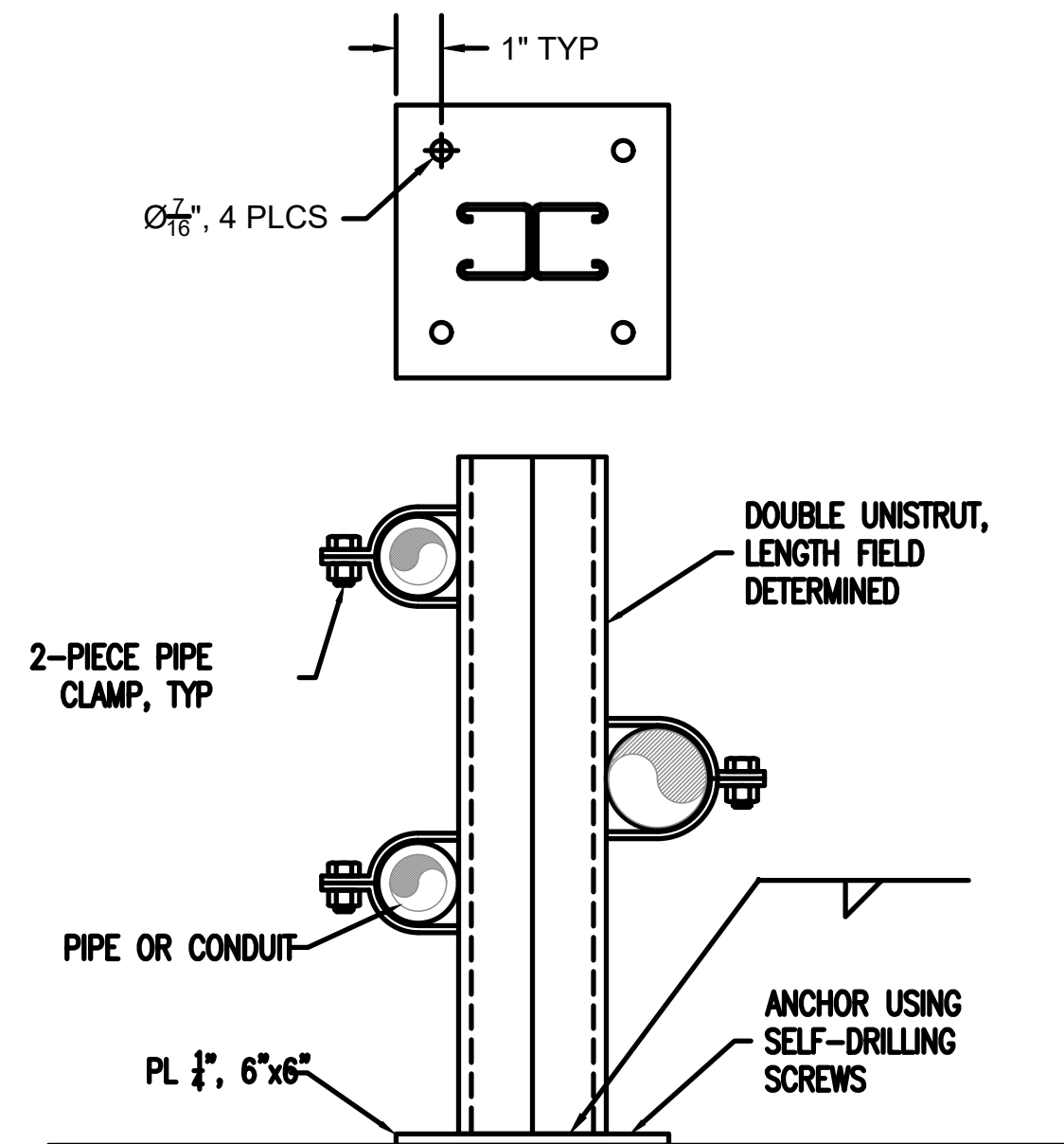
1 AIR HANDLER PIPING ISOMETRIC DETAIL
SCALE: 1/2" = 1'-0"



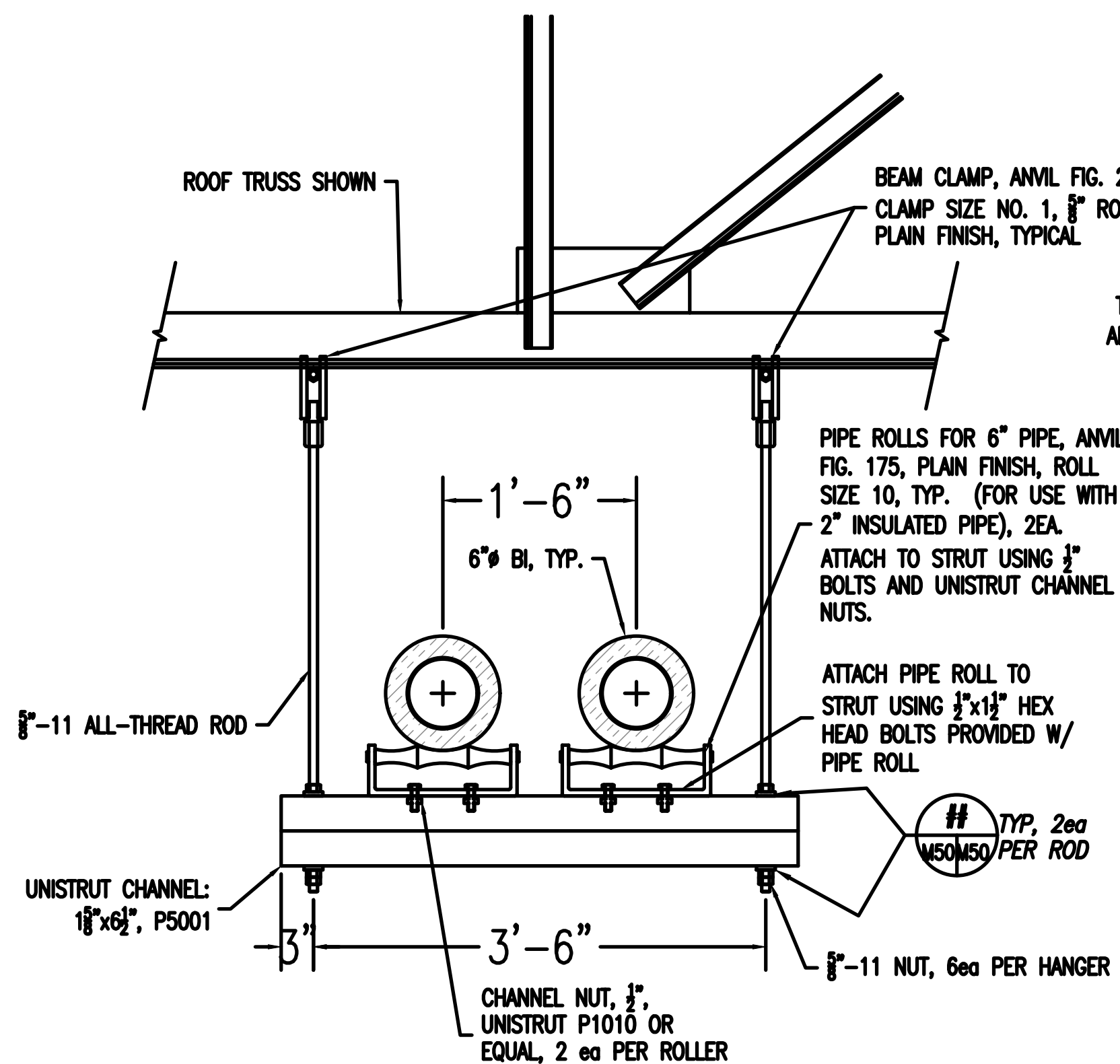
2 DETAIL: AIR TERMINAL UNIT (VAV) INSTALLATION, TYP.
SCALE: 1/2" = 1'-0"



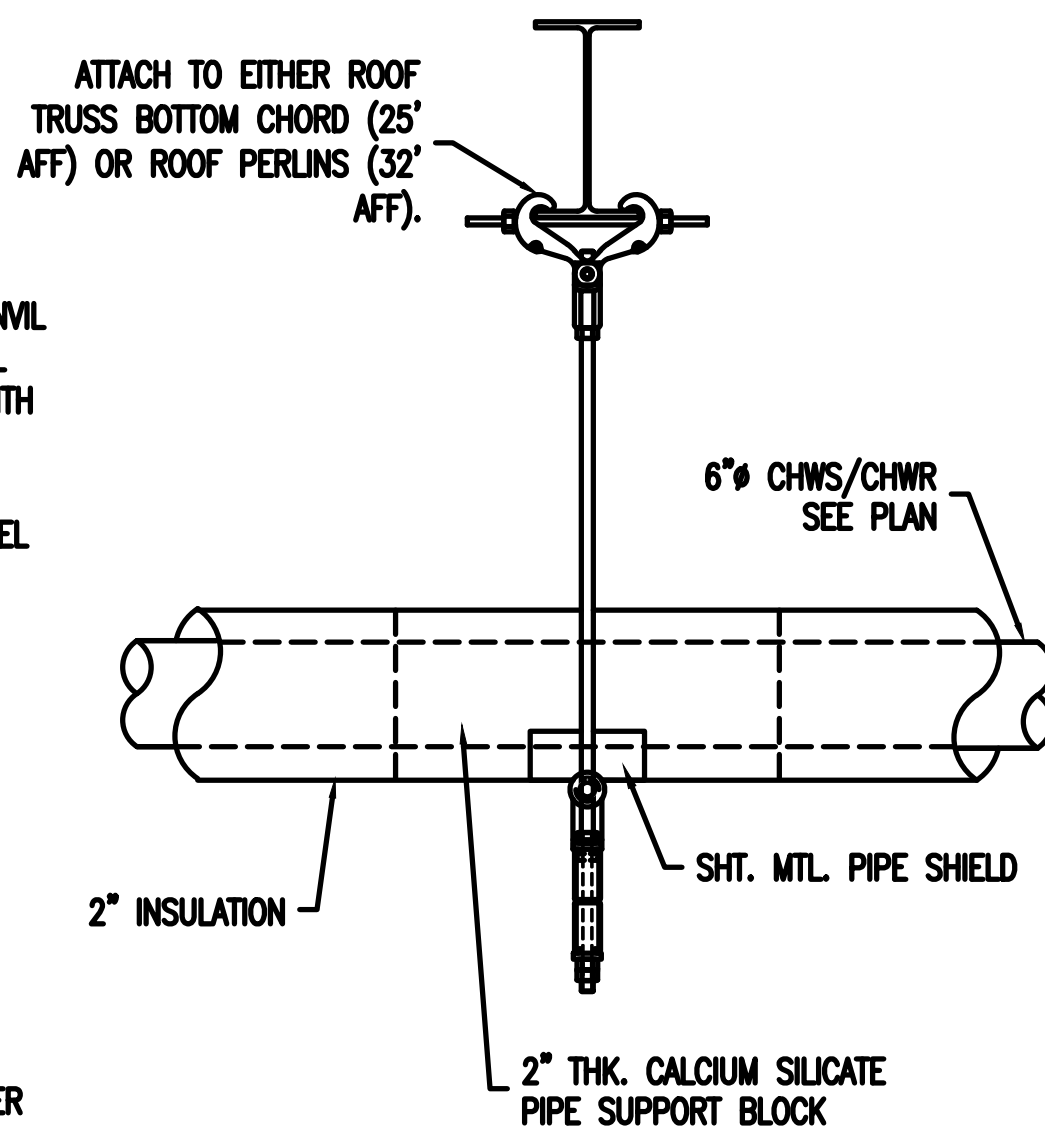
3 DETAIL: SUPPLY AIR DUCT TO CEILING DIFFUSER
SCALE: 1/2" = 1'-0"



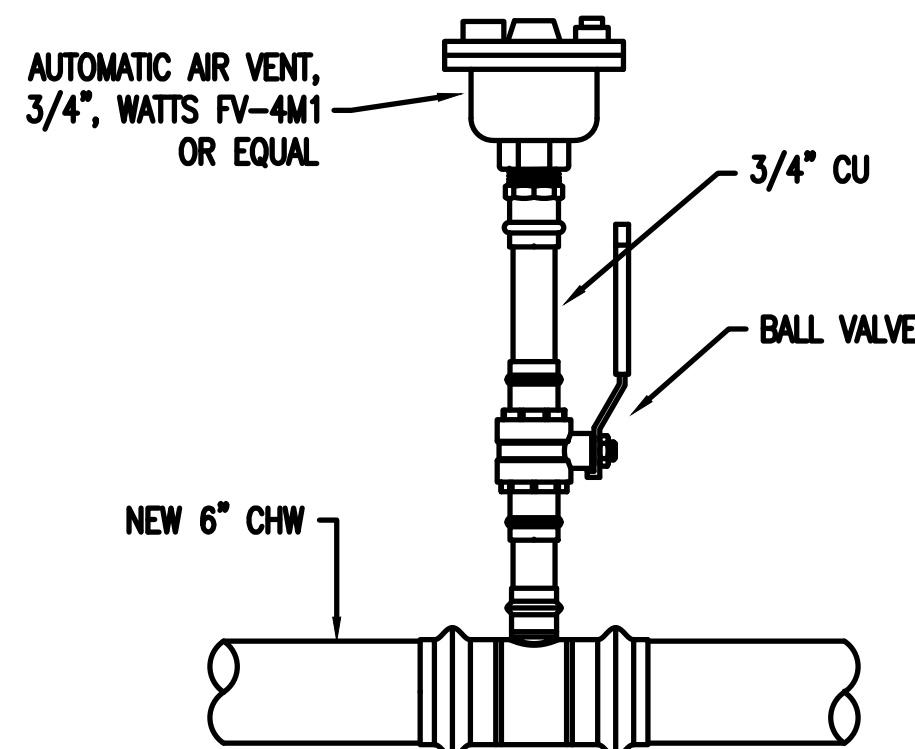
4 PIPE SUPPORT DETAIL
SCALE: 3" = 1'-0"
SUPPORT PIPE FROM ROOF DECK



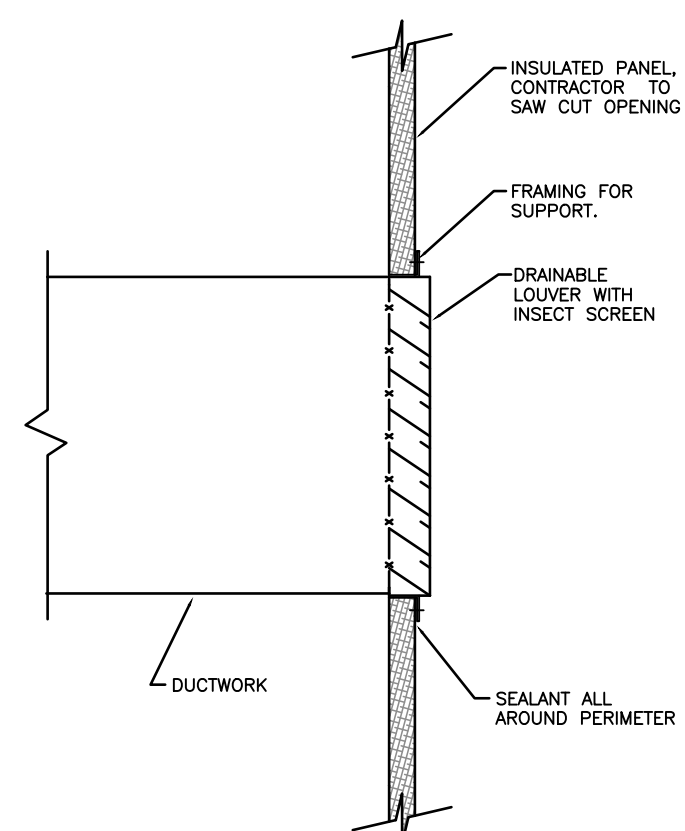
4 PIPE HANGER DETAIL H1
SCALE: 1" = 1'-0"
VERIFY SIZES OF STRUCTURE WITH INTENDED LOAD



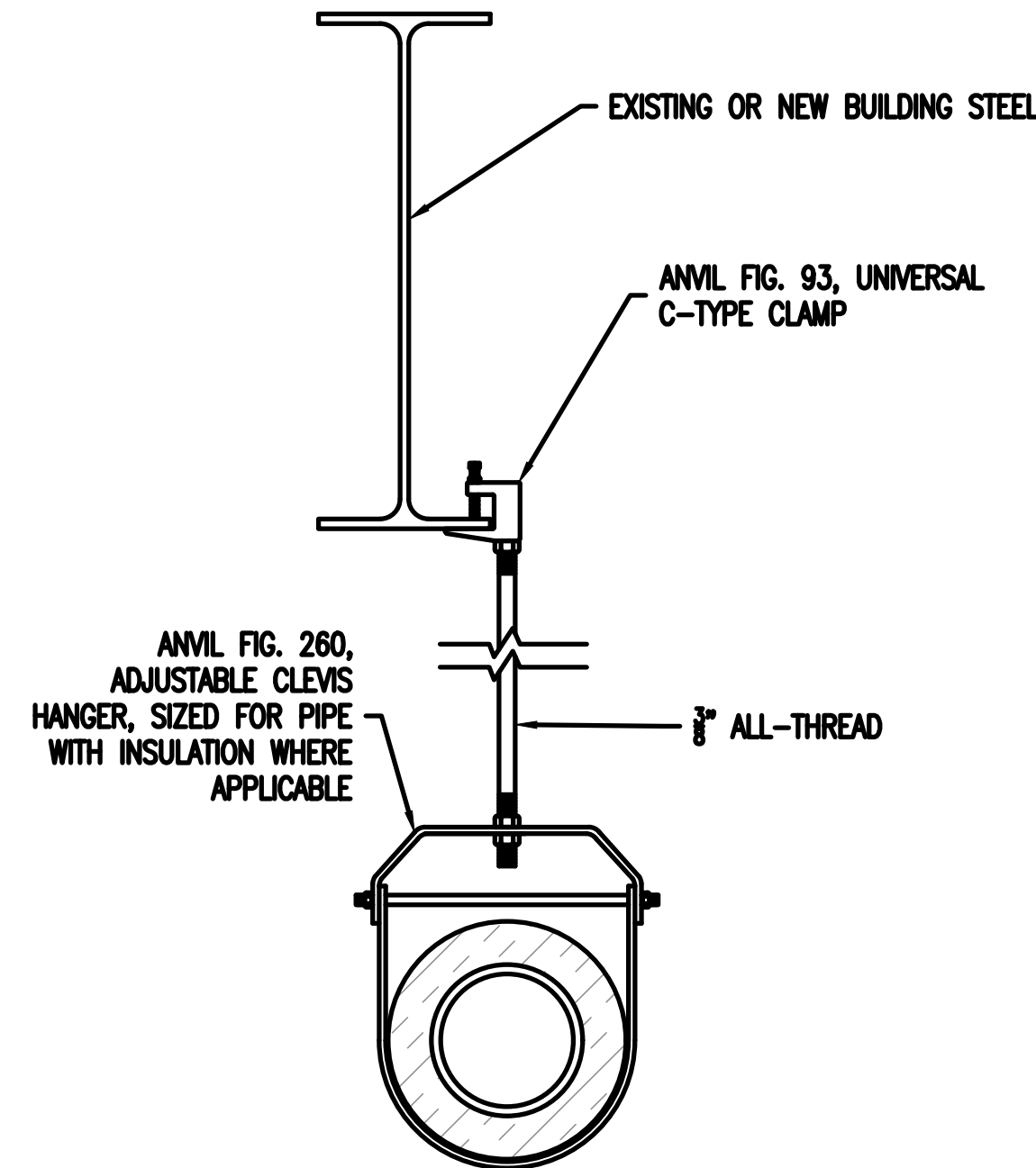
SIDE VIEW



6 AIR VENT DETAIL
SCALE: 3" = 1'-0"
TYPICAL, SUPPLY AND RETURN



8 LOUVER DETAIL
SCALE: 3" = 1'-0"
INSTALL IAW MANUFACTURERS RECOMMENDATIONS



7 PIPE HANGER DETAIL
SCALE: 3" = 1'-0"
SUPPORT PIPE FROM EXISTING STRUCTURE



AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION
WWYK250063
INSTALL REACT VII FACILITY
B9001, V19
TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION	REVISIONS	DATE	DESCRIPTION
ISSUE DATE: 7 OCT 25	MARK		
DESIGN GROUP: TEP-PA-CSAG			
DESIGNED BY: S. SEXTON			
DRAWN BY: T. KISER			
CHECKED BY: C. HIXON			
DESIGN FILE LOCATION: Engr\Design\2025\20250063\0_Support0_3_DrawingsModel			

DETAILS

SHEET TITLE: M-501
SHEET NUMBER: 35 OF 35

AIR HANDLING UNIT SCHEDULE																						
MARK	LOCATION	SERVES	NOM. AIRFLOW (CFM)	MIN O.A. (C.F.M.)	FAN						COILS						FILTERS		ACCESSORIES	BASIS OF DESIGN MANUFACTURER MODEL	NOTES	
					SUPPLY FAN (BHP)	SUPPLY FAN (HP)	VOLTS/ PHASE	RPM	TSP (in wg)	EXT SP (in wg)	Rows/ FPI/ Fluid Vel (fps)	COOLING EAT (DB/WB)	COOLING LAT (DB/WB)	Air Pressure Drop (in)	Water ΔT (EFT/LFT)	Water Flowrate GPM	Water Pressure Drop (ft)	PRE- FILTER				FINAL FILTER
AHU-V19	MEZZANINE	REACT VII	2,500	1,600	2.93	5	460/3	2,631	5.71	1.50	6 / 8 / 3.4	80/67	53.7/52.8	0.49	44/54	22	7.3	None	12" MERV 13	VFD DIRECT DRIVE	PAGE / PAI-36x42	OP WT: 1542 lbs

NOTES:

CASING SHALL BE 2" THICK DOUBLE WALL G90 GALVANIZED SHEETMETAL. FAN SHALL BE PLUG TYPE , CLASS II, SWSI, AIRFOIL TYPE BLADES, ALUMINUM WHEEL WITH GALVANIZED STEEL BASE MATERIAL. FAN, FRAME AND MOTOR SHALL HAVE 2" SPRING ISOLATORS. PROVIDE VFD WITH FAN TO BE DIRECT DRIVE TYPE WITH AIR FLOW MONITORING.

AHU SHALL BE CERTIFIED BASED ON AHRI STANDARD 430/431.

AIR FILTER SHALL HAVE A MAXIMUM VELOCITY OF 400 FPM WITH A MAXIMUM INITIAL AIR PRESSURE DROP OF 0.30" AND BE 12" DEEP CARTRIDGE TYPE.

DRAIN PAN SHALL BE 304 STAINLESS STEEL OF WELDED CONSTRUCTION WITH UNDERSIDE INSULATION 1/2" THICK.

PROVIDE EBTRON GOLD SERIES GTX16E-P AIRFLOW MONITORING STATION IN THE OUTSIDE AIR DUCT AS INDICATED ON PLANS TO INCLUDE TEMPERATURE SENSOR AND REMOTE TRANSMITTER

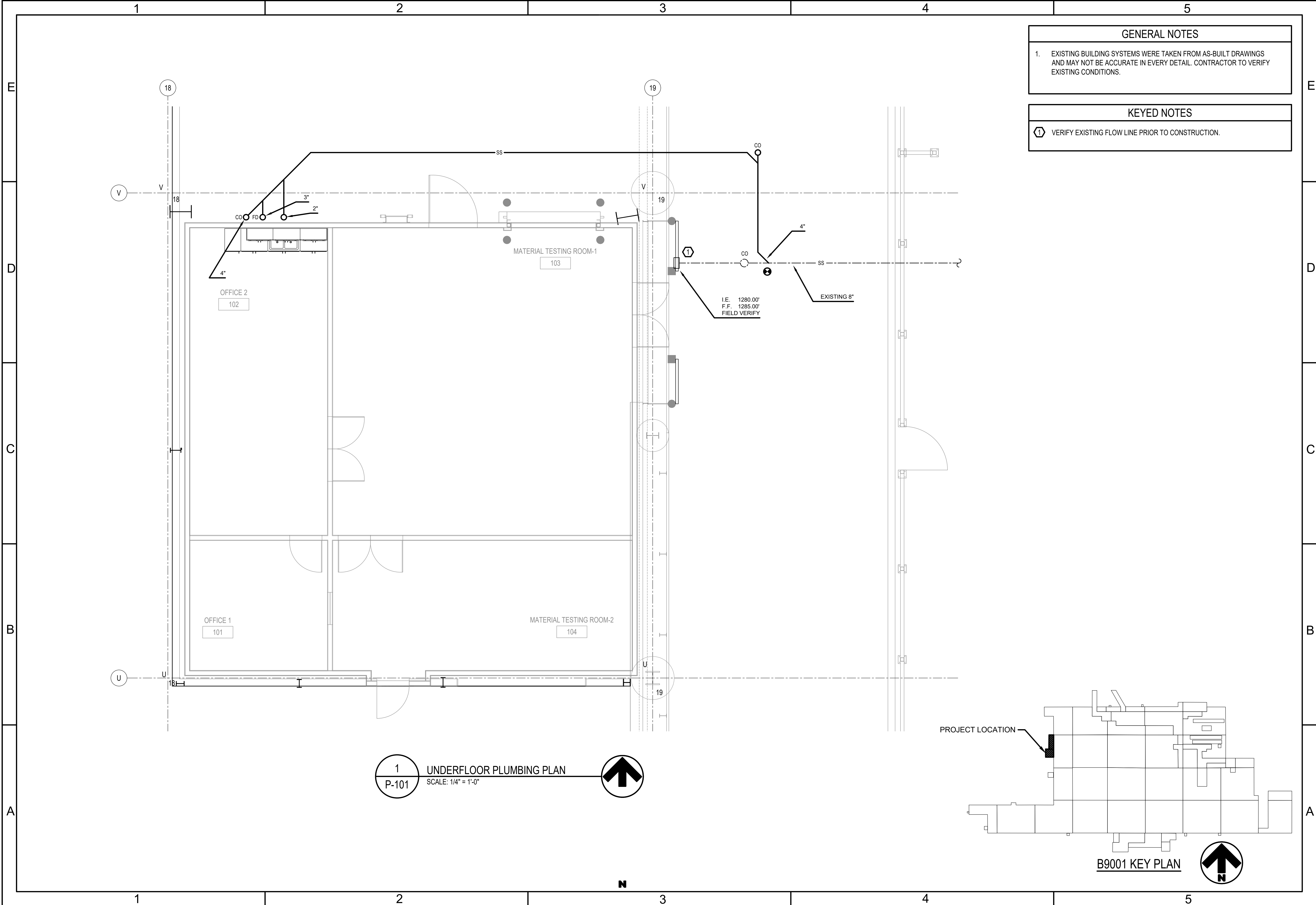
AIR TERMINAL UNIT SCHEDULE																		
MARK	LOCATION	TYPE	INLET SIZE	CFM		OPER. PRESS. (IN. WG)		MAX RAD. N.C.		REHEAT COIL DATA						BASIS OF DESIGN	NOTES	
				MAX	MIN	MIN	INLET	AT INLET PRESS. SHOWN		CFM	E.A.T. (°F)	L.A.T. (°F)	CAP. (KW)	NO. STAGES	MAX AIR P.D. (IN. WG)			
VAV-V19-101	MEZZANINE	VAV	8	657	250	0.02	1	20		250	55	94.5	2.5	SCR	0.20	TITUS / DESV	COILS 480/3	
VAV-V19-102	MEZZANINE	VAV	10	857	250	0.02	1	24		250	55	94.5	3.0	SCR	0.20	TITUS / DESV	COILS 480/3	
VAV-V19-103	MEZZANINE	VAV	4	149	50	0.04	1	27		50	55	94.5	2.5	SCR	0.20	TITUS / DESV	COILS 480/3	
VAV-V19-104	MEZZANINE	VAV	10	837	250	0.02	1	27		250	55	94.5	3.0	SCR	0.20	TITUS / DESV	COILS 480/3	
NOTES: HVAC CONTROLS CONTRACTOR TO PROVIDE ACTUATOR, CONTROLLER AND PROGRAMMING.																		

SUPPLY FAN SCHEDULE																
MARK	LOCATION	SERVES	NOM. AIRFLOW (CFM)	OPERATING AIRFLOW (CFM)	S.P. (IN. WG)	FAN TYPE	BLADE TYPE	WHEEL DIA (IN.)	FAN RPM	S.P.L. 250 HZ MAX (dB)	MOTOR DATA				BASIS OF DESIGN MANUFACTURER MODEL	NOTES
											HP	V/PH	DRIVE TYPE	CONTROL TYPE		
SF-V19-01	MEZZANINE	EXTERIOR WALL	500	500	1/2	INLINE		6.313	1276		1/3	120/1	DIRECT	FSC	GEMINI / GN-720	
NOTES:																

ENERGY RECOVERY UNIT SCHEDULE																						
MARK	LOCATION	SERVES	MIN. O.A. (CFM)	DESIGN O.A. (CFM)	ENERGY RECOVERY DATA						SUPPLY FAN DATA			EXHAUST FAN DATA			ELECTRICAL DATA				BASIS OF DESIGN MANUFACTURER/ MODEL	NOTES:
					WINTER HEAT RECOVERY			SUMMER HEAT RECOVERY			CFM	EXT. S.P. (IN. WG)	HP	CFM	EXT. S.P. (IN. WG)	HP	MCA	VOLT	PH	HZ		
					O.A. E.A.T.	R.A. E.A.T.	L.A.T.	O.A. E.A.T.	R.A. E.A.T.	L.A.T.												
					DB/WB (°F)	DB/WB (°F)	DB/WB (°F)	DB/WB (°F)	DB/WB (°F)	DB/WB (°F)												
ERV-V19	MEZZANINE	AHU-V19-01	1600	1600	12.5/10	70/51.1	53.9/40.8	99.5/73.9	75/62.3	81.9/68.0	1600	3/4	3	1800	3/4	3	6.5	460	3	60	RENEWAIRE HE-20	MERV 13 FILTERS
NOTES: DOUBLE WALL 20 GAUGE, G90 GALVANIZED STEEL, 1" EXPANDED FOAM INSULATED CONSTRUCTION ADVANCED EC DIRECT DRIVES MOTORIZED DAMPERS BOTH AIRSTREAMS FACTORY MOUNTED NON-FUSED DISCONNECT FILTER MONITOR BOTH AIRSTREAMS TO EMC5 PROVIDE INTERIOR VIBRATION ISOLATION OR UNIT TO STAND VIBRATION ISOLATION																						

AIR DISTRIBUTION DEVICES SCHEDULE				
Type A-300 Airflow (CFM) Neck size (in) 824 Size of device (in)				
MARK	FINISH	MOUNTING LOCATION	BASIS OF DESIGN MANUFACTURER MODEL	NOTES
A	#26 WHITE	CEILING	TITUS OMNI	FIXED PATTERN, CEILING DIFFUSER WITH NOMINAL 24x24 MODULE. OPPOSED BLADE DAMPER AND FRAME STYLE FOR T-BAR MOUNTING
B	#26 WHITE	CEILING	TITUS 355RL	FIXED DEFLECTION RETURN GRILLE WITH OBD AND FRAME STYLE FOR T-BAR CEILING MOUNTING.
C	#26 WHITE	CEILING	TITUS 355RL	FIXED PATTERN EXHAUST REGISTER WITH OPPOSED BLADE DAMPER AND FRAME STYLE FOR SURFACE MOUNTING.
NOTES:				

SHEET NUMBER		M-601	
SHEET		OF	
36			
SCHEDULES			
SHEET TITLE		MANAGEMENT INFORMATION	
		MARK	DATE DESCRIPTION
ISSUE DATE: 7 OCT 25			
DESIGN GROUP: TEPA-CSAG			
DESIGNED BY: S SEXTON			
DRAWN BY: T KISER			
CHECKED BY: C HIXON			
DESIGN FILE LOCATION:		TINKER AIR FORCE BASE, OKLAHOMA	
Engr\Design\2025\20250603\0_Support\0_3_Drawings\Model			
		PROJECT INFORMATION	
		 AIR FORCE MATERIAL COMMAND 72 ARMY CIVIL ENGINEER DIRECTORATE TINKER AFB, OK	
		35% DESIGN	
		WYK250063 INSTALL REACT VII FACILITY B9001, V19	





AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35%
DESIGN

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B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

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ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: S. SEXTON		
	DRAWN BY: T. KISER		
	CHECKED BY: CHIXON		
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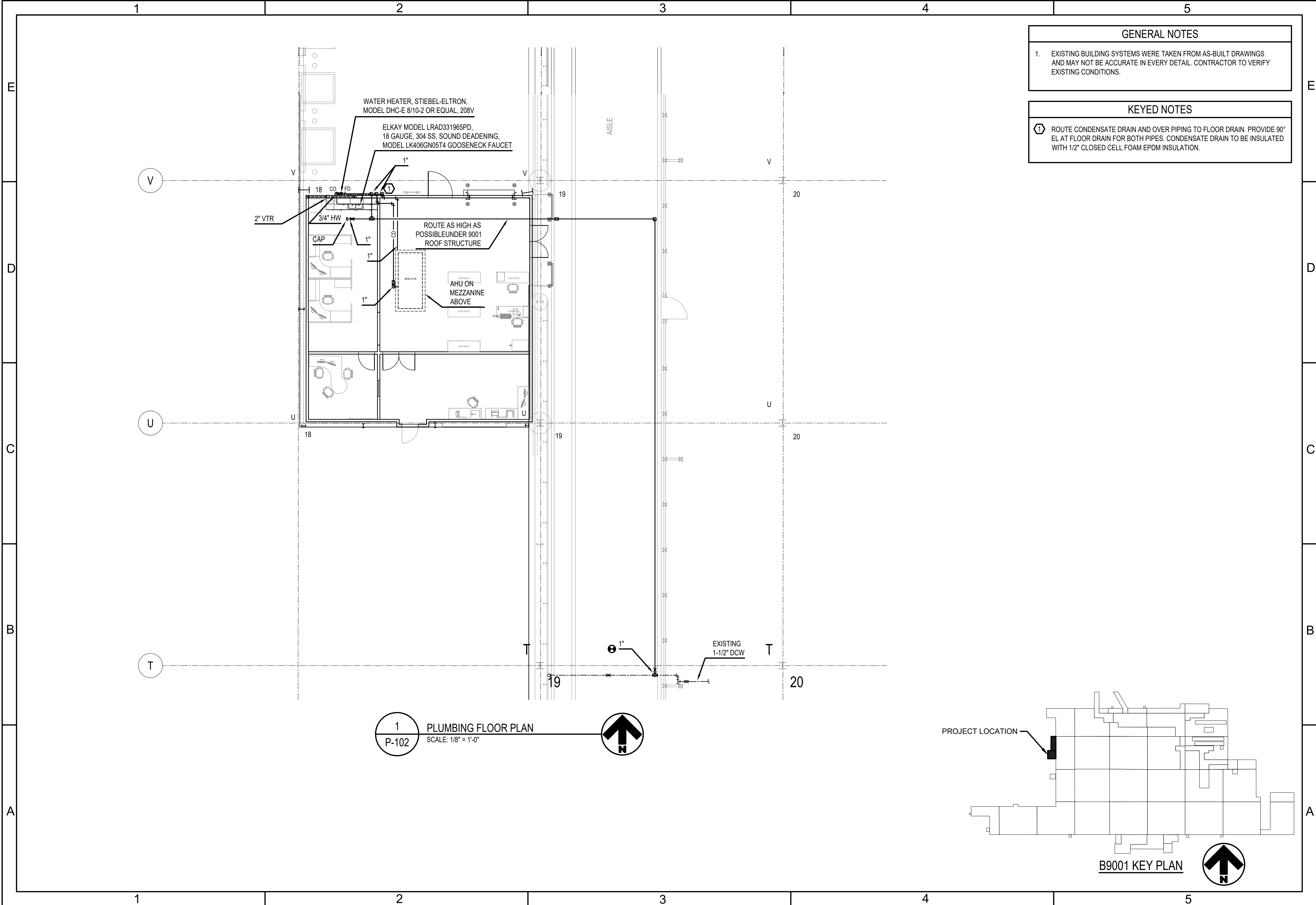
SHEET TITLE

**UNDERFLOOR
PLUMBING PLAN**

SHEET NUMBER

P-101

SHEET 38 OF



GENERAL NOTES

1. EXISTING BUILDING SYSTEMS WERE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE ACCURATE IN EVERY DETAIL. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

KEYED NOTES

 ROUTE CONDENSATE DRAIN AND OVER PIPING TO FLOOR DRAIN. PROVIDE 90° EL AT FLOOR DRAIN FOR BOTH PIPES. CONDENSATE DRAIN TO BE INSULATED WITH 1/2" CLOSED CELL FOAM EPDM INSULATION.


AIR FORCE MATERIEL COMMAND
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B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPA-CSAG		
	DESIGNED BY: S. SEXTON		
	DRAWN BY: T. KISER		
	CHECKED BY: C. HIXON		

DESIGN FILE LOCATION:
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SHEET TITLE

PLUMBING
FLOOR PLAN

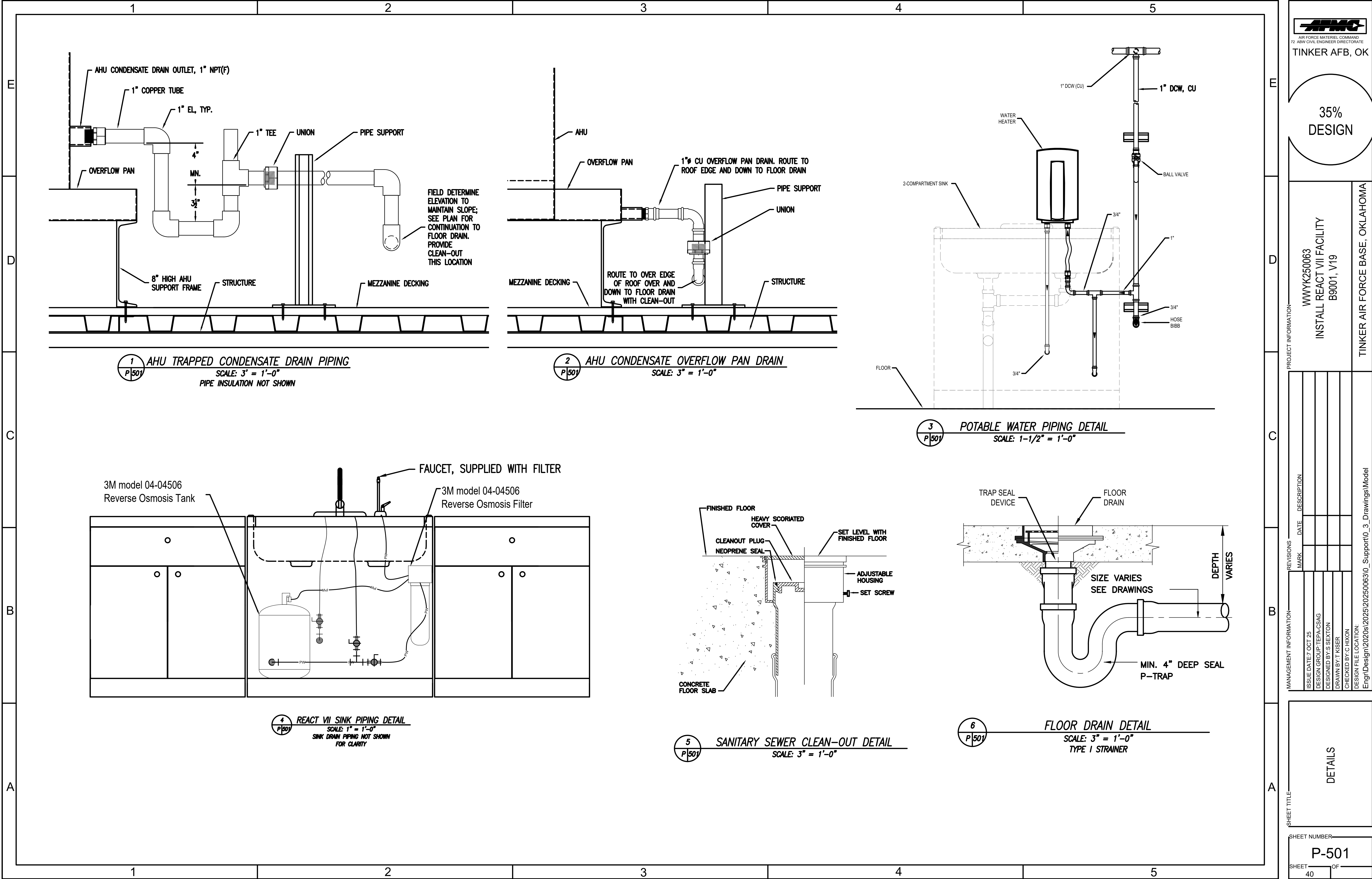
SHEET NUMBER

P-102

SHEET

39

OF



AIR FORCE MATERIEL COMMAND
72 ARMY CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

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WYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION		REVISIONS	
ISSUE DATE	DESCRIPTION	MARK	DATE
7 OCT 25	DESIGN GROUP: TEPAC-SAG		
	DESIGNED BY: S. SEXTON		
	DRAWN BY: T. KISER		
	CHECKED BY: C. HIXON		
Engr\Design\20250812025025006310_Support0_3_DrawingsModel			

DETAILS

SHEET NUMBER

P-501

SHEET 40 OF 40

PROJECT INFORMATION
W
INSTALL
TINKER AIR

MANAGEMENT INFORMATION		REVISIONS	
		MARK	DATE
ISSUE DATE	7 OCT 25		
DESIGN GROUP	TEPCA-CSAG		
DESIGNED BY	D PERRY		
DRAWN BY	T KISER		
CHECKED BY	C HIXON		
DESIGN FILE LOCATION:			

ELECTRICAL SYMBOLS AND ABBREVIATIONS

E-001

ELECTRICAL SYMBOLS LEGENDS AND ABBREVIATIONS

(APPLICABLE TO ALL ELECTRICAL SHEETS)

1. EQUIPMENT INTERRUPTING CAPACITIES SPECIFIED IN THE CONTRACT DOCUMENTS ARE BASED UPON EQUIPMENT CHARACTERISTICS AND IMPEDANCES SHOWN ON THE DRAWINGS. IF ACTUAL INSTALLED EQUIPMENT DEVIATES FROM THESE CHARACTERISTICS OR HAS LOWER IMPEDANCES, THE CONTRACTOR SHALL INCREASE THE INTERRUPTING CAPACITIES OF ALL ITEMS ON THE LOAD SIDE OF THE DEVIANT EQUIPMENT IN DIRECT PROPORTION TO THE CHANGED CHARACTERISTICS. INTERRUPTING CAPACITIES SHALL NOT BE REDUCED TO VALUES LESS THAN THOSE REQUIRED BY THE CONTRACT DOCUMENTS.
2. FIRE STOP SHALL BE PROVIDED AT ALL LOCATIONS WHERE ELECTRICAL EQUIPMENT OR SYSTEMS PENETRATE FIRE RATED WALLS. SEE ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS.
3. CONTROL WIRING P&ID'S FOR MECHANICAL EQUIPMENT ARE NOT SHOWN ON THESE SHEETS.
4. RISER AND ONE-LINE DIAGRAMS ARE MEANT TO SHOW ELECTRICAL RELATIONSHIPS FOR EQUIPMENT, AND THEREFORE MAY NOT INCLUDE ALL REQUIRED EQUIPMENT DEVICES, AND ACCESSORIES.

SYMBOL	DESCRIPTION
	RECEPTACLE, DUPLEX, 20A, 120V, GROUNDING 2W+G, NEMA 5-20R
	RECEPTACLE, DUPLEX, SERVING COMPUTER LOAD, 20A, 120V, GROUNDING 2W+G RECEPTACLE, NEMA 5-20R
	RECEPTACLE, DUPLEX, FLOOR MOUNTED, FLUSH, 20A, 120V, GROUNDING 2W+G, NEMA 5-20R
	RECEPTACLE, DUPLEX, CEILING MOUNTED, 20A, 120V, GROUNDING 2W+G, NEMA 5-20R
	GFCI RECEPTACLE
	RECEPTACLE, DUPLEX, SPECIAL PURPOSE
	RECEPTACLE, QUADRAPLEX
	RECEPTACLE, SPECIAL PURPOSE
	SURFACE RECEPTACLE STRIP
	RECEPTACLE, CLOCK
	JUNCTION BOX, ABOVE CEILING
	JUNCTION BOX, WALL MOUNTED, SERVING COMPUTER LOAD
	WIREMOLD
	SWITCH, TOGGLE, WALL MOUNTED, 20A., 120/277V RATED (AC ONLY), SINGLE-POLE, MOUNT 48" AFF
	SWITCH, TOGGLE, WALL MOUNTED, 20A., 120/277V RATED (AC ONLY), DOUBLE-POLE, MOUNT 48" AFF
	SWITCH, TOGGLE, WALL MOUNTED, 20A., 120/277V RATED (AC ONLY), THREE-WAY, SPDT, MOUNT 48" AFF
	SWITCH, TOGGLE, WALL MOUNTED, 20A., 120/277V RATED (AC ONLY), FOUR-WAY, SPDT, MOUNT 48" AFF
	SWITCH, DIMMER, 120V, 1500 WATT, MOUNT 48" AFF
	SWITCH, MOTOR
	SWITCH, PULL SWITCH, CEILING MOUNTED
	BRANCH CIRCUIT HOME RUN WITH NEUTRAL, PHASE AND EQUIPMENT GROUND RESPECTIVELY
	BRANCH CIRCUIT HOME RUN IDENTIFIER
	TRANSFORMER, DRY TYPE
	SWITCH, DISCONNECT
	COMBINATION STARTER/DISCONNECT WITH HOA SWITCH-COORDINATE WITH MECH. CONTRACTOR

SYMBOL	DESCRIPTION
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, RECESSED
	RACEWAY, ABOVE FLOOR
	RACEWAY, RISER UP
	RACEWAY, RISER DOWN
	MOTOR W/HORSEPOWER
	THERMOSTAT BY MECHANICAL CONTRACTOR
	CORD REEL, CEILING MOUNTED
	TELEPHONE RECEPTACLE, WALL MOUNTED
	DATA RECEPTACLE, WALL MOUNTED
	TELEPHONE/DATA RECEPTACLE, WALL MOUNTED
	BELL
	SPEAKER, CEILING MOUNTED
	MICROPHONE, CEILING MOUNTED
	SPEAKER CONTROL
	SOUND CABINET
	AUDIO/VISUAL PROJECTOR
	CABLE TV OUTLET
	EXHAUST FAN
	VARIABLE FREQUENCY DRIVER

SYMBOL	DESCRIPTION
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, RECESSED
	RACEWAY, ABOVE FLOOR
	RACEWAY, RISER UP
	RACEWAY, RISER DOWN
 1/20HP	MOTOR WHORSEPOWER
	THERMOSTAT BY MECHANICAL CONTRACTOR
	CORD REEL, CEILING MOUNTED
	TELEPHONE RECEPTACLE, WALL MOUNTED
	DATA RECEPTACLE, WALL MOUNTED
	TELEPHONE/DATA RECEPTACLE, WALL MOUNTED
	BELL
	SPEAKER, CEILING MOUNTED
	MICROPHONE, CEILING MOUNTED
	SPEAKER CONTROL
	SOUND CABINET
	AUDIO/VISUAL PROJECTOR
	CABLE TV OUTLET
	EXHAUST FAN
	VARIABLE FREQUENCY DRIVER

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[illegible]

SYMBOL	DESCRIPTION
	SCHEMATIC, CIRCUIT CONNECTIONS
	SCHEMATIC CIRCUIT
	ELECTRICAL BUSS
	SEPARABLE (PLUG-IN) CONNECTOR OR CONNECTION FOR DRAWOUT ASSEMBLIES
	CABLE OR WIRE
	SWITCH, DISCONNECT, FUSED, LOAD BREAK, FUSE AMPERE RATING [A] AND FUSE TYPE SHOWN NEXT TO SYMBOL
	TRANSFORMER, POWER, KVA RATING, WINDING VOLTAGES AND CONNECTIONS ARE SHOWN NEXT TO SYMBOL
	TRANSFORMER, CURRENT, TURNS RATIO, SHOWN NEXT TO SYMBOL
	GROUNDING CONNECTION, WHEN USED WITH TRANSFORMER WINDING SYMBOL IT INDICATES A NEUTRAL GROUNDING CONNECTION (ON SECONDARY SIDE ONLY)
	DELTA CONNECTED
	WYE CONNECTED
	GROUNDING WYE WINDING CONNECTION
	RELAY OR CONTACTOR CONTACTS
	CIRCUIT BREAKER, MOLDED CASE, TRIP CURRENT [A] AND QUANTITY OF POLES [P] SHOWN NEXT TO SYMBOL
	SWITCH, DISCONNECT, NON-FUSED, LOAD BREAK, CONTINUOUS CURRENT RATING [A] AND QUANTITY OF POLES [P] SHOWN NEXT TO SYMBOL
	FUSE, AMPERE RATING [A] AND FUSE TYPE SHOWN NEXT TO SYMBOL
	MOTOR THERMAL OVERLOAD PROTECTOR
	INTEGRAL PHOTOELECTRIC CELL AND RELAY (PHOTOCONTROL)
	WATT-OUR METER
	CONTACTOR OR RELAY COIL, LETTER(S) INSIDE OF SYMBOL MATCH CONTACTS CONTROLLED
	SURGE ARRESTER, VALVE TYPE ARRESTER KV RATING SHOWN NEXT TO SYMBOL
	EQUIPMENT ENCLOSURE
	SURGE PROTECTION DEVICE
	GROUND FAULT PROTECTION

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	EQUIPMENT ENCLOSURE
	SURGE PROTECTION DEVICE
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SYMBOL	DESCRIPTION
	CONDUCTOR, BARE, UON
	GROUNDING CONNECTION, COUNTERPOISE TO GROUND ROD.

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM MANUAL PULL STATION
	REMOTE ANNUNCIATOR PANEL
	FIRE ALARM SIGNALING DEVICE, VISUAL ONLY
	FIRE ALARM SIGNALING DEVICE, AUDIO/VISUAL, HORN AND LIGHT (1 ASSEMBLY)
	FIRE ALARM SIGNALING DEVICE, BELL
	FIRE ALARM TRANSMITTER
	FIRE HEAT DETECTOR, W/ TEMPERATURE OR RATE OF RISE.
	SMOKE DETECTOR
	SPRINKLER SYSTEM VALVE TAMPER SWITCH
	SPRINKLER SYSTEM FLOW SWITCH
	FIREMANS TELEPHONE
	ELEVATOR RECALL

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	SPRINKLER SYSTEM FLOW SWITCH
	FIREMANS TELEPHONE
	ELEVATOR RECALL

--	--

SYMBOL	DESCRIPTION
AC	DEVICE MOUNTED ABOVE COUNTER TOP
AV	AUDIBLE AND VISUAL
C	RECEPTACLE SERVING COMPUTER LOAD.
E	EXISTING
F	FIXED TEMPERATURE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
N	NEW
NL	NIGHT LIGHT
R	ITEM OR DEVICE RECESSED INTO MOUNTING SURFACE
RF	RADIO FREQUENCY
WP	WEATHERPROOF
WP	WATER PROOF

A	AMPERES OR TRIP AMPERES	NEUT	ASSOCIATION NEUTRAL
AC	ALTERNATING CURRENT	N.O.	NORMALLY OPEN
AF	ABOVE FINISHED FLOOR	NLT	NOT LESS THAN
AFG	ABOVE FINISHED GRADE	NMT	NOT MORE THAN
AIC	SYMMETRICAL AMPS	OH	OVERHEAD
	INTERRUPTING CAPACITY	PAS	PUBLIC ADDRESS SYSTEM
AWG	AMERICAN WIRE GAUGE	PE	PHOTOELECTRIC
A/R	AS REQUIRED	PH	PHASE
ARR.	ARRESTOR	PLCS	PLACES
BLDG	BUILDING	PNL	PANELBOARD
BRKT	BRACKET	PVC	POLYVINYL CHLORIDE
C	CONDUIT		ELECTRICAL RACEWAY
CB	CIRCUIT BREAKER		USED ONLY U.G., CARLON OR EQUIVALENT
CKT	CIRCUIT		
CL	CURRENT LIMITING	RC	RIGID STEEL CONDUIT
CO	CONDUIT ONLY	REF	REFERENCE
CTL	CONTROL	REQ'D	REQUIRED
DC	DIRECT CURRENT	RG	RIGID GALVANIZED STEEL CONDUIT
D.T.C.	DATA TERMINAL CABINET		
EMCS	ENERGY MONITORING AND CONTROL SYSTEM	RM	ROOM
FACP	FIRE ALARM CONTROL PANEL	RMC	RIGID METALIC CONDUIT
FT	FOOT, FEET	SHT	SHEET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER, 5MA PERSONNEL PROTECTION UNLESS OTHERWISE NOTED.	SOB	STANDOFF BRACKET
		SPACE	SPACE(S) ONLY (NO BREAKER DEVICE)
		SPARE	SPARE BREAKER OR DEVICE
GRD	GROUND	SPDT	SINGLE-POLE, DOUBLE-THROW
HZ	HERTZ	SPECS	CONTRACT SPECIFICATIONS
I	IN ACCORDANCE WITH	SPST	SINGLE-POLE, SINGLE-THROW
IG	ISOLATED GROUND		
IN	INCH, INCHES	SN	SOLID NEUTRAL
IR	INFRARED	T/B	TELEPHONE BACKBOARD
KV	KILOVOLTS	TYP	TYPICAL
KVA	KILOVOLT AMPERES	UG	UNDERGROUND
KVAR	KILOVOLT AMPERS REACTIVE	UL	LISTED BY UNDERWRITERS' LABORATORIES
KWH	KILOWATT HOURS		
L-L	LINE TO LINE	UON	UNLESS OTHERWISE NOTED
L-N	LINE TO NEUTRAL	V	VOLTS
MFR	MANUFACTURER	VA	VOLT AMPERES
MH	MANHOLE	W	WATT
MIN	MINIMUM	WH	WEATHERHEAD
MTD	MOUNTED	W/	WITH
MTG	MOUNTING	Ø	PHASE
N.C.	NORMALLY CLOSED	2W+G	CIRCUIT TYPE
NEC	NATIONAL ELECTRICAL CODE	3W+G	CIRCUIT TYPE
		4W+G	CIRCUIT TYPE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS		

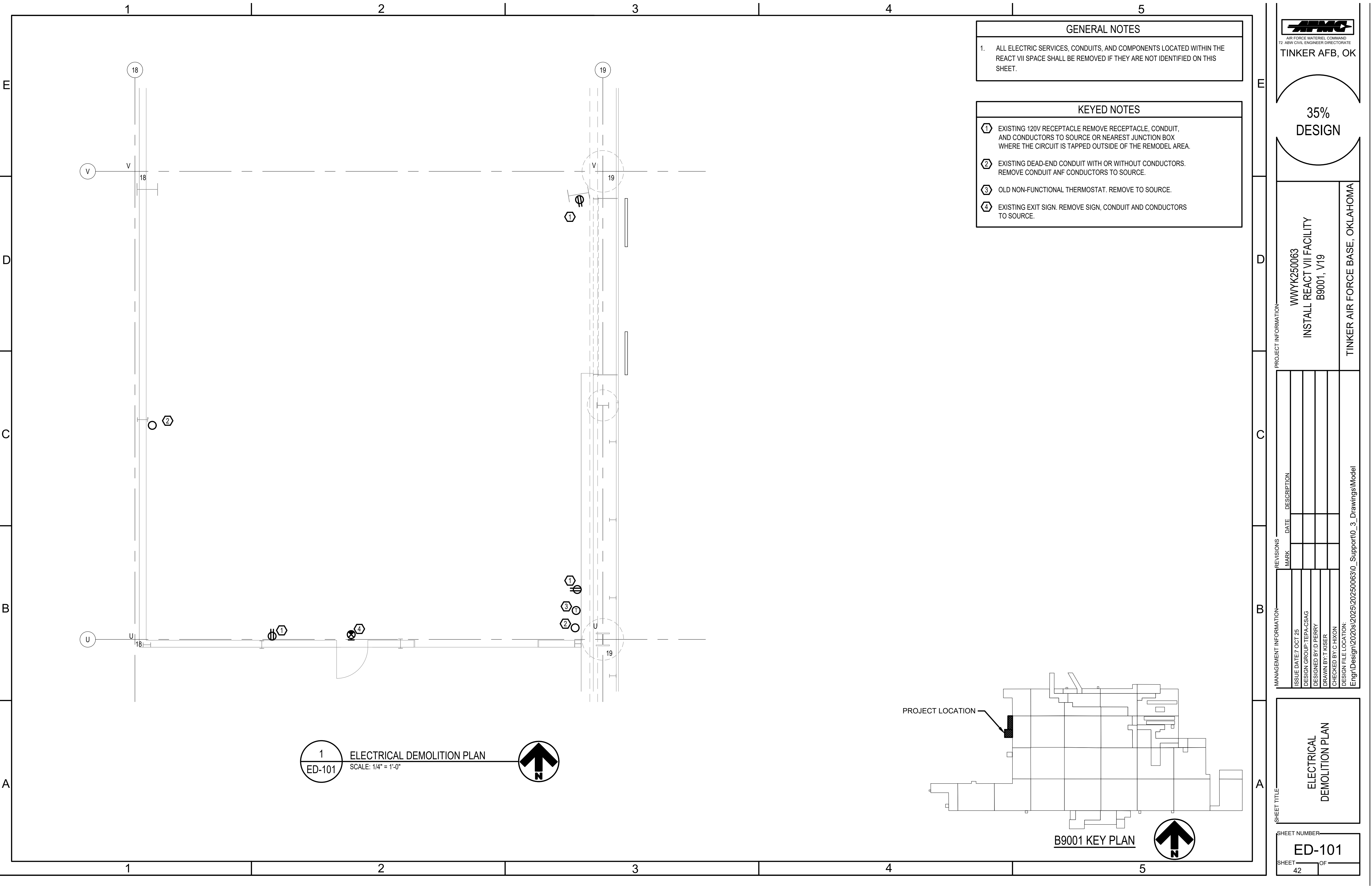
A	AMPERES OR TRIP		ASSOCIATION
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AC	ALTERNATING CURRENT	N.O.	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	NLT	NOT LESS THAN
AFG	ABOVE FINISHED GRADE	NMT	NOT MORE THAN
AIC	SYMMETRICAL AMPS	OH	OVERHEAD
	INTERRUPTING CAPACITY	PAS	PUBLIC ADDRESS SYSTEM
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A/R	AS REQUIRED	PH	PHASE
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BLDG	BUILDING	PNL	PANELBOARD
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	UNLESS OTHERWISE NOTED.	SPDT	SINGLE-POLE,
GRD	GROUND		DOUBLE-THROW
HZ	HERTZ	SPECS	CONTRACT SPECIFICATIONS
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	CODE	4W+G	CIRCUIT TYPE
NEMA	NATIONAL ELECTRICAL		
	MANUFACTURERS		

1. THESE SYMBOLS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. ALL SYMBOLS ARE NOT NECESSARILY USED IN THE DRAWINGS FOR THIS PROJECT. LISTING OF SYMBOLS DOES NOT IMPLY THAT ALL SYMBOLS ARE USED IN THE CONTRACT DRAWINGS.
3. COLORS FOR ALL OUTLETS AND SWITCHES SHALL BE AS SHOWN ON ARCHITECTURAL PLANS.
4. ALL MOUNTING HEIGHTS SHOWN IN SYMBOL LEGEND SHALL BE AS PER TAS/ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS.
5. BRANCH CIRCUIT NUMBERS MAY BE SHOWN NEXT TO SYMBOLS IN MULTIWIRE CIRCUITS.
6. EQUIPMENT IDENTIFIERS, MATCHING EQUIPMENT SCHEDULES, ARE DISPLAYED ATTACHED TO SYMBOLS BY LEADER ARROWS, UON.
7. SYMBOL ORIENTATION DOES NOT IMPLY DEVICE OR EQUIPMENT ORIENTATION, UNLESS NOTED AS SUCH. SEE REFLECTED CEILING PLANS FOR LIGHT FIXTURE POSITIONS AND ORIENTATIONS.
8. SYMBOL SIZE DOES NOT IMPLY EQUIPMENT SIZE, UON.
9. LOWER CASE LETTER IN POSITION "X" INDICATES FIXTURES CONTROLLED BY SAME LETTER.
10. PLAN SYMBOLS USE THE FOLLOWING LINE TYPE CONVENTION AND ARE REPRESENTED AS FOLLOWS:

	LINETYPE, DENOTES EXISTING TO REMAIN
	LINETYPE, DENOTES EXISTING TO BE DEMOLISHED
	LINETYPE, DENOTES NEW U.G. OR CONCEALED CONSTRUCTION
	LINETYPE, DENOTES NEW CONSTRUCTION
	LINETYPE, DENOTES LIGHTING SWITCH/CEG

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GENERAL NOTES

1. ALL ELECTRIC SERVICES, CONDUITS, AND COMPONENTS LOCATED WITHIN THE REACT VII SPACE SHALL BE REMOVED IF THEY ARE NOT IDENTIFIED ON THIS SHEET.

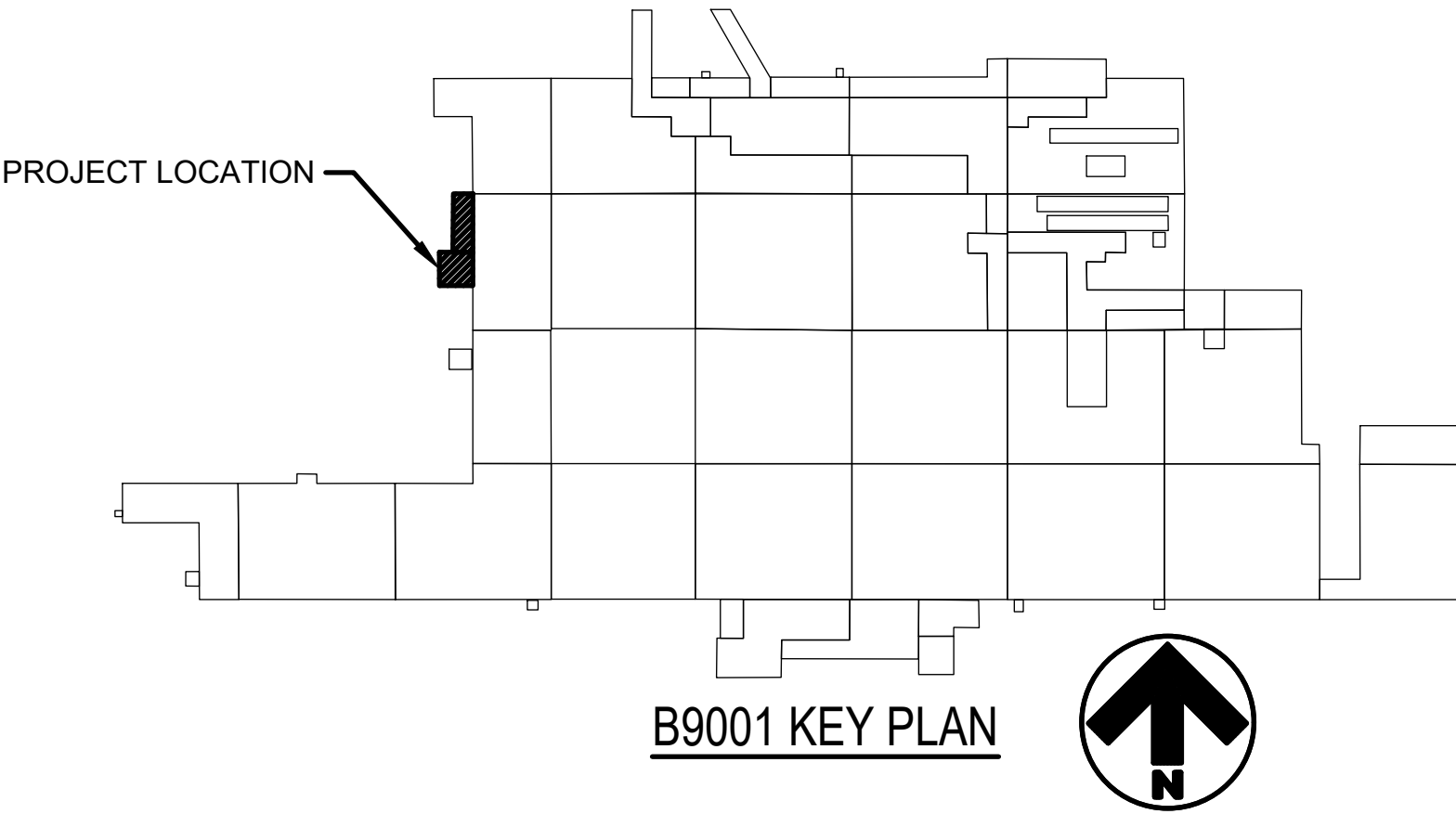
KEYED NOTES

① EXISTING 120V RECEPTACLE REMOVE RECEPTACLE, CONDUIT, AND CONDUCTORS TO SOURCE OR NEAREST JUNCTION BOX WHERE THE CIRCUIT IS TAPPED OUTSIDE OF THE REMODEL AREA.

② EXISTING DEAD-END CONDUIT WITH OR WITHOUT CONDUCTORS. REMOVE CONDUIT ANF CONDUCTORS TO SOURCE.

③ OLD NON-FUNCTIONAL THERMOSTAT. REMOVE TO SOURCE.

④ EXISTING EXIT SIGN. REMOVE SIGN, CONDUIT AND CONDUCTORS TO SOURCE.





AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE

TINKER AFB, OK

35%
DESIGN

PROJECT INFORMATION

WWYK250063
INSTALL REACT VII FACILITY
B9001, V19

TINKER AIR FORCE BASE, OKLAHOMA

MANAGEMENT INFORMATION	REVISIONS	DATE	DESCRIPTION
ISSUE DATE: 7 OCT 25			
DESIGN GROUP: TEPA-CSAG			
DESIGNED BY: D PERRY			
DRAWN BY: T KISER			
CHECKED BY: C HIXON			
DESIGN FILE LOCATION: Engr\Design\2020s\2025\202506310_Support\0_3_Drawings\Model			

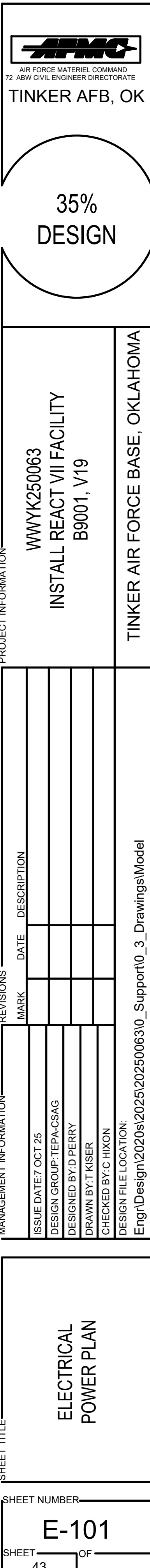
SHEET TITLE

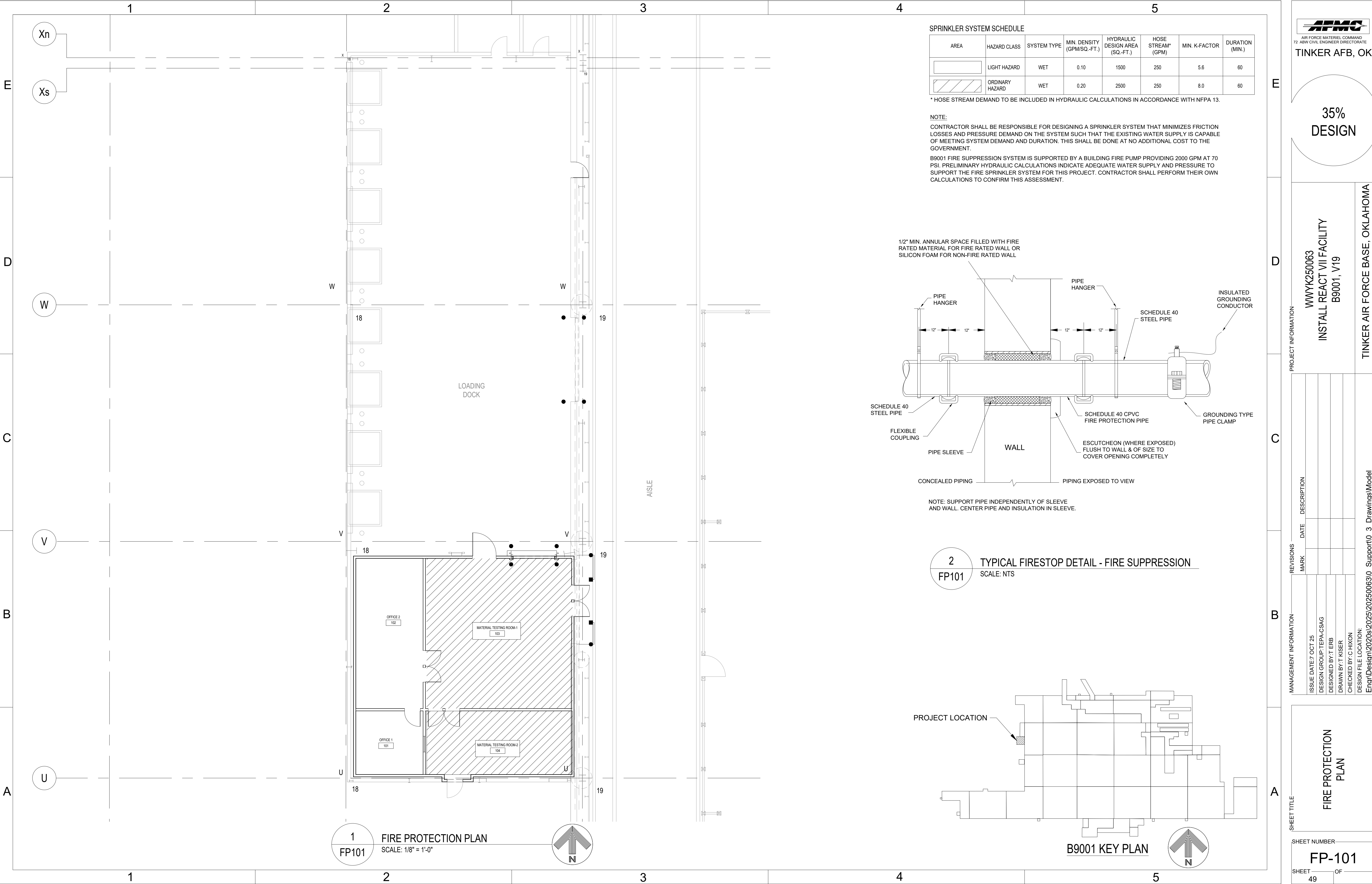
ELECTRICAL
DEMOLITION PLAN

SHEET NUMBER

ED-101

SHEET 42 OF





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SHEET TITLE

FIRE PROTECTION PLAN

SHEET NUMBER

FP-101

SHEET 49 OF

