

CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

CONSTRUCTION DOCUMENTS



JULY 2, 2024

ARPA US VETS MISCELLANEOUS REPAIRS & IMPROVEMENTS 12027 N 28th DRIVE, PHOENIX AZ 85029

2024



LEGAL DESCRIPTION
LEGAL DESCRIPTION

LEGAL DESCRIPTION

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SITE DATA	
PROJECT ADDRESS	12027 N 28th DRIVE, PHOENIX AZ 85029
APN	149-17-139C, 149-17-140B, 149-17-141C
CURRENT ZONING	COMMERCIAL C-1 DISTRICT-NEIGHBORHOOD RETAIL
CURRENT LAND USE	GROUP HOME
PROPOSED LAND USE	GROUP HOME
FLOOR AREA RATIO	0.61
LOT COVERAGE	+/- 22%
OVERALL SITE AREA	148,450 SQ. FT. (3.41 ACRES)
PROPOSED FLOOR AREA	742 SQ. FT.
BUILDING HEIGHT	45'-6"

SITE ANALYSIS

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PROJECT DESCRIPTION / SCOPE OF WORK
<p>ADDITION OF A SMALL VOLUME ON THE LOW ROOF AT THE WEST END OF THE EXISTING BUILDING TO ENCLOSE ELECTRICAL CONDUITS & PULL BOXES. NEW ROOFING ON HIGH AND LOW ROOFS OF BUILDINGS REPLACEMENT OF DOOR INTO IDF ROOM & REMOVAL OF EXTERIOR LOUVERS & REPAIR TO EXTERIOR FACADE UPGRADES TO SANITARY WASTE AND VENT SYSTEMS</p>

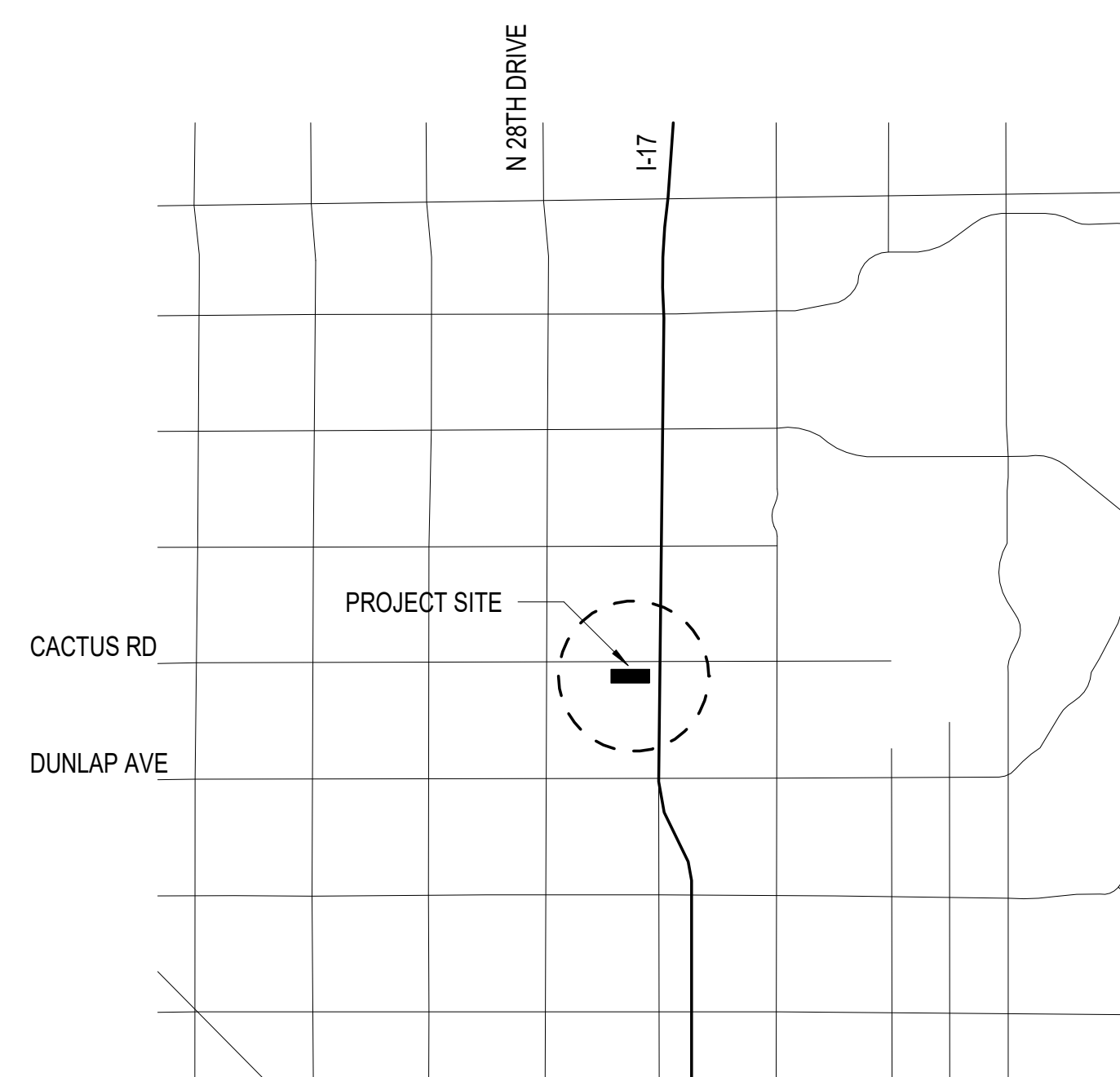
PROJECT DESCRIPTION

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IECC COMPLIANCE SUMMARY

IECC COMPLIANCE SUMMARY

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VICINITY MAP
NTS

AE DESIGN & CONSTRUCTION TEAM
<p>ARCHITECT: GENSLER PATRICK MAGNESS 2575 E. CAMELBACK ROAD SUITE 175 PHOENIX AZ 85016 TELEPHONE: 602.53.4904 PATRICK_MAGNESS@GENSLER.COM</p> <p>MEP: IMEG ENGINEERING CONSULTANTS BRETT C. CASPERSON 7878 N 16th STREET SUITE 140 PHOENIX AZ 85020 DIRECT: 602.371.1333 MOBILE: 602.292.6911 BRETT.C.CASPERSON@MEGACORP.COM</p> <p>STRUCTURAL ENGINEERS: PK ASSOCIATES STEVEN C. SLONAKER 7434 E. MCDONALD DRIVE SCOTTSDALE, AZ 85250 DIRECT: 480.922.8854 MOBILE: 602.820.6620</p>

MAYOR
KATE GALLEG0

CITY COUNCIL

- DISTRICT NO. 1 - ANN O'BRIEN
- DISTRICT NO. 2 - JIM WARING
- DISTRICT NO. 3 - DEBRA STARK
- DISTRICT NO. 4 - LAURA PASTOR
- DISTRICT NO. 5 - BETTY GUARDADO
- DISTRICT NO. 6 - KEVIN ROBINSON
- DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA
- DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

APPROVALS

(CLIENT DEPARTMENT) _____ DATE _____
Eric J. Froberg
 ENGINEERING MANAGER _____ DATE 7-8-24

VERTICAL PROJECT MANAGEMENT SECTION

KIVA # _____
 SDEV # _____

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

GRAPHIC SYMBOLS

NOTE: NOT ALL SYMBOLS REPRESENTED IN THE FOLLOWING DOCUMENTS

REFLECTED CLG

ACOUS CLG AND GRID, CLG HEIGHT CHANGE, FIN CLG HEIGHT SYMBOL, GRID STARTPOINT SYMBOL, CLG FINISH TAG, MOTION SENSOR, CLG MTD SPEAKER, CLG MTD CAMERA, CLG MTD SPRINKLER HEAD, CLG MTD SMOKE DETECTOR, CLG MTD STROBE LT, CLG MTD EXIT SIGNS, WALL MTD EXIT SIGNS - PARALLEL, WALL MTD EXIT SIGNS - DENOTES EXISTING TO REMAIN, DENOTES EXIST TO BE RELOCATED, ACCESS DOOR, LIGHT FIXTURES, FLORESCENT LT FXTR, FLORESCENT LT FXTR / EMERGENCY CIRCUIT, EXIST LT FXTR TO BE REMOVED, UNDER CAB FLORESCENT FXTR, FLORESCENT STRIP FXTR, FLORESCENT PENDANT FXTR, RECES DOWNLT, RECES ADJUSTABLE DN LT, RECES WALL WASHER, TRACK LING, SURFACE MTD LT FXTR, WALL SCONCE, LT SWITCH, DIMMER SWITCH, MECHANICAL FXTRS, RETURN AIR, SUPPLY AIR, CIRCULAR DIFFUSER, LINEAR DIFFUSER, EXHAUST FAN

ELEVATION INDICATION

GLASS SYMBOL, MASONRY COURSING, WOOD VENEER, STONE

FINISH

WALL FINISH TAG, BASE FINISH TAG, EXTENT OF FINISH TYP, WALL FINISH TAG, SPECIAL FINISH TAG, FLOOR FINISH TAG, CEILING FINISH TAG, CHANGE IN FLOOR FINISH

POWER & COMM. CONT CONSTRUCTION

LEGEND OF COMMON SYMBOL MODIFIERS, LEGEND OF COMMON SYMBOLS, WALL MTD DEVICES, SECURITY DEVICES

SECTION INDICATIONS

ACOUSTICAL CEILING TILE, ALUMINUM, BRICK, CARPET, CONCRETE, CONCRETE MASONRY UNIT, CUT STONE, EARTH, FABRIC WRAPPED PANEL, GLASS, GRAVEL, GYPSUM PLASTER, INSULATION (LOOSE OR BATT), INSULATION (RIGID), METAL, PLASTIC, PLYWOOD, PRE-CAST PANELS, SAND OR GROUT, STONE, WOOD (FINISHED), WOOD (CONTINUOUS MEMBER), WOOD (INTERRUPTED MEMBER)

ABBREVIATIONS

Table with columns for abbreviations and full names, including: ACCESS, ACCESSORY, AL, ALT, ANNUN, ANNOZ, APPL, AUTO, AVG, B, BD, BLDG, BLKG, BOLL, BRDLM, BU, C, CAB, CEM, CER, CLG, CMU, COATG, COILG, CONC, CONSTR, CONT, CONTR, COV, CPT, D, DBL, DEPT, DES, DET, DF, DIA, DIM, DISP, DIV, DN, DR, DSCON, DWR, E, (E), ELAST, ELEC, EMBED, ENGR, ENTR, EQ, EQUIP, EXP, EXPS, EXT, F, FAB, FD, FE, FE&C, FHC, FIN, FLDG, FLR, FLPC, FR, FRMG, FURN, FWC, FXD, FXTR, G, GA, GC, GFRC, GFRR, GFRRP, GL, GR, GYP, H, HD, HDWD, HDWE, HM, HORIZ, HP, HVAC, I, INFILTR, INFO, INSTRUM, INSUL, INT, INTLK, J, JAN, K, KIT, L, LAV, LB, LL, LLOUVER, LP, LT, LVLG, M, MAX, MECH, MEMB, MET, MEZZ, MFD, MFR, MIN, MISC, MLWK, MOIST, MOT, MTD, N, NIC, NO, NTS, O, OCC, OH, OPNG, OPR, ORNA, OVFL, OVHD, P, PBD, PEDTR, PLAM, PLAS, PLSTC, PLYWD, PNL, POLYST, PORT, PREFAB, PREFIN, PRTECN, PTN, R, RDR, RECES, RECEPT, REF, REFLECTED, REFR, REQD, RESIS, RFG, RM, RN, RO, S, SCR, SECUR, SF, SGL, SHORG, SIM, SST, STD, STL, STRFR, STRUCT, SURF, SUSP, SYS, T, T&G, THK, TLT, TOS, TRAF, TRANS, TRTD, TYP, U, UNDRLY, UNO, UTIL, V, VEH, VERT, VIF, W, WIF, WO, WC, WD, WDW, WT, WTRPRF

PROJECT INFORMATION

BUILDING ADDRESS: 12027 N 28TH DRIVE PHOENIX, AZ 85029
ZONING: COMMERCIAL C-1 DISTRICT-NEIGHBORHOOD RETAIL
CURRENT USE: GROUP HOME
PROPOSED OCCUPANCY TYPE: SINGLE STORY BUILDING OCCUPANCY IS A-2 MULTISTORY OCCUPANCY IS R-2
TYPE OF CONSTRUCTION: TYPE II A
FIRE PROTECTION: FIRE ALARM AND SPRINKLER SYSTEM
LOT NUMBER: 149-17-139C, 149-17-140B, 149-17-141C
GROSS SITE AREA: 148,450 SQ. FT. (3.41 ACRES)
BUILDING FOOTPRINT: ± 32,600 SQ.FT.
LOT COVERAGE: ± 22%
EXISTING BUILDING AREA: 1ST FLOOR= 32,600 SQ.FT. 2ND FLOOR=19,467 SQ.FT. 3RD FLOOR =19,467 SQ. FT. 4TH FLOOR=19,467 SQ.FT. TOTAL BUILDING SQ.FT.= 91,007 SQ.FT.
EXISTING BUILDING HEIGHT: 4 STORIES
SCOPE OF WORK: ADDITION OF A SMALL VOLUME ON THE LOW ROOF AT THE WEST END OF THE EXISTING BUILDING TO ENCLOSE ELECTRICAL CONDUITS & PULL BOXES. NEW ROOFING ON HIGH AND LOW ROOFS OF BUILDINGS REPLACEMENT OF DOOR INTO IDF ROOM & REMOVAL OF EXTERIOR LOUVERS & REPAIR TO EXTERIOR FACADE UPGRADES TO SANITARY WASTE AND VENT SYSTEMS
DEFERRED SUBMITTALS: ANY MODIFICATIONS TO EXISTING FIRE SPRINKLER AND FIRE ALARM PLANS TO BE DEFERRED SUBMITTAL.
JURISDICTION: CITY OF PHOENIX BUILDING DEPARTMENT

DRAWING INDEX

Table with columns SHEET NUMBER and SHEET NAME, listing sheets from G0.00 to P5.02.

VICINITY MAP

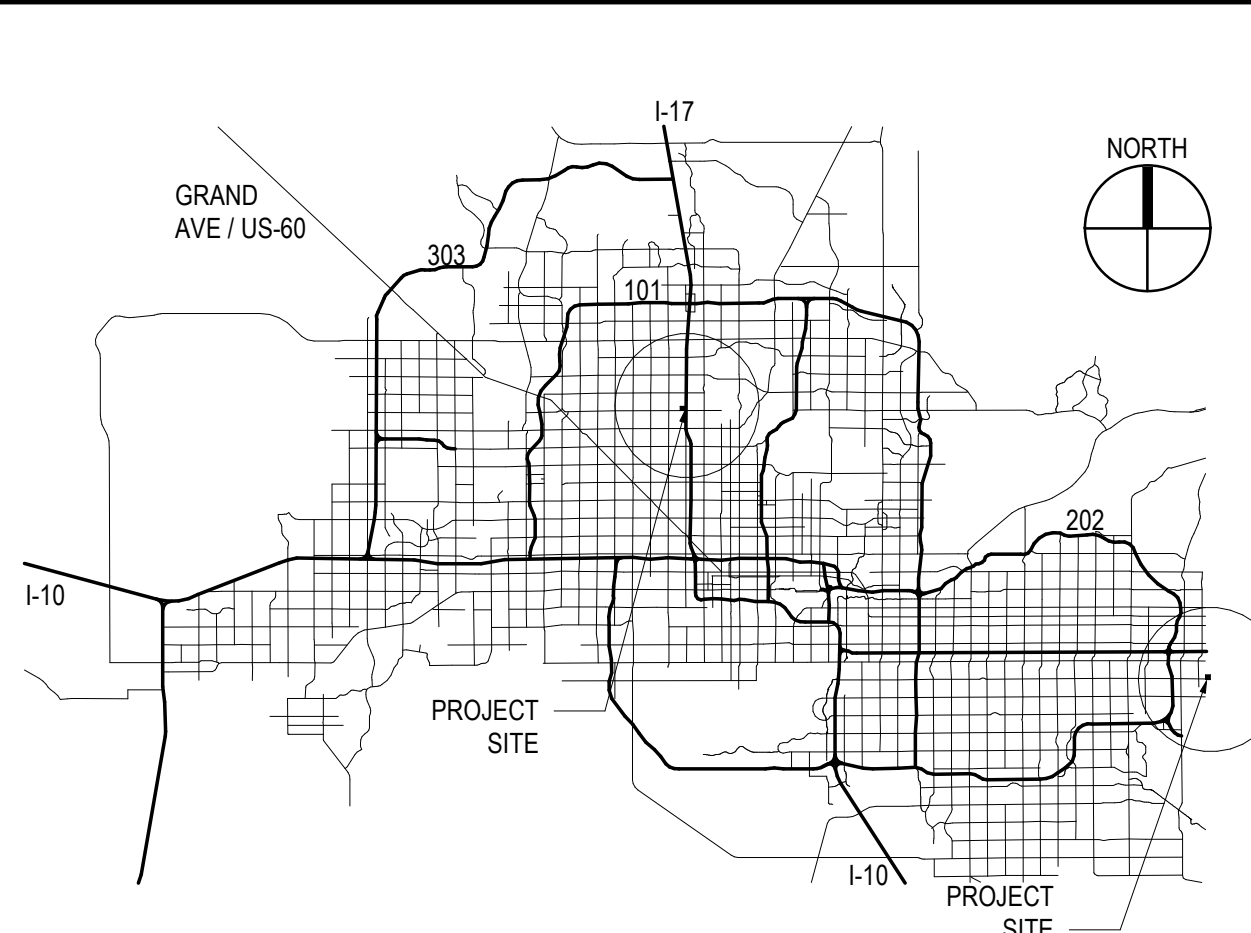
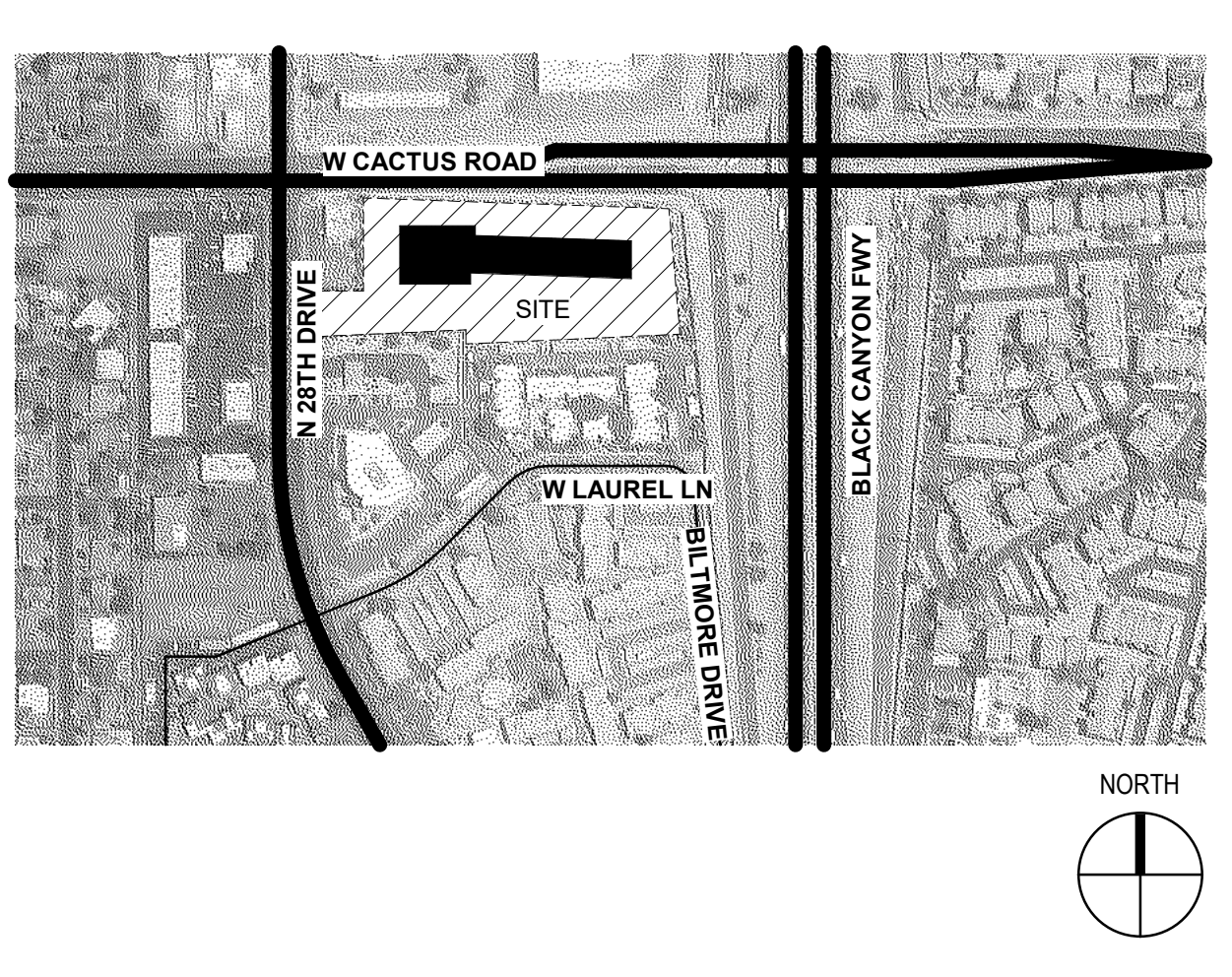


Table with columns BUILDING ELEMENT and REQUIRED RATING, listing fire-resistance requirements for various building elements.

LOCATION MAP



US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002
Gensler
Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States
Tel: 602.523.4904
Fax: 602.523.4949

Table with columns Date and Description, listing issue dates and descriptions.

KIVA #
SDEV #
Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Project Name: ARPA U. S. Vets Miscellaneous Repairs & Improvements
Project Number: 057.8221.100
Description: PROJECT INFORMATION AND DRAWING INDEX
Scale: As indicated

Professional seal and signature area for Patrick Magness, City Engineer, with project details and drawing index.

POWER & COMM. NOTES

- BEFORE CORING SLAB, COORDINATE CORE LOCATIONS WITH OWNER, FURNITURE INSTALLER AND ARCHITECT.
- VERIFY EQUIPMENT POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER BEFORE INSTALLATION TO ENSURE PROPER FIT AND FUNCTION IN NEW CONSTRUCTION.
- INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL OUTLETS BACK TO BACK.
- IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.
- VERIFY WITH ARCHITECT STYLE AND FINISH OF COVER PLATES FOR SWITCHES, DEVICES, AND DATA OUTLETS. PROVIDE ONE-PIECE GANG COVER PLATES UNO.
- CONFIRM LOCATIONS OF STROBES AND EXIT SIGNS WITH ARCHITECT BEFORE INSTALLATION.
- CONFIRM DEVICE LOCATIONS WITH ARCHITECT BEFORE ROUGH-IN.
- INSTALL ABOVE-COUNTER OUTLETS HORIZONTALLY. REFER TO TYPICAL MOUNTING LOCATION DETAILS AND ELEVATIONS FOR MORE INFORMATION.
- ALIGN DEVICES VERTICALLY WHERE SHOWN STACKED ON PLAN.
- PROVIDE PULL STRINGS IN EMPTY CONDUIT AND J-BOXES.
- INDICATED DIMENSION ARE TO THE CENTERLINE OF THE DEVICE OR CLUSTER OF DEVICES UNO EXCEPT THE TOP-MOST OPERABLE PORTION OF SUCH DEVICES SHALL NOT EXCEED 44" AFF. PROVIDE WRITTEN NOTIFICATION OF CONDITIONS REQUIRING CUSTOM COVER PLATES.

FIRE PROTECTION NOTES

- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A 10BC (WITH APPROPRIATE CLASS RATINGS AS REQUIRED FOR THE HAZARD) WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR WHERE QUICK RESPONSE HEADS ARE NOT PROVIDED, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR.
- PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
- PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
- MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS, UNO.
- EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. DOORS SHALL HAVE APPROVED LEVER HANDLES.
- RATED DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
- DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A XXMINUTE RATING AND SHALL BE SELF-CLOSING.
- EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL, WHEN SERVING 50 OR MORE OCCUPANTS AND IN ANY HAZARDOUS AREA.
- FIRE RATED DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
- INTERIOR WALL AND CEILING FINISHES FOR EXIT ENCLOSURES SHALL HAVE A FLAME SPREAD RATING OF 'B' OR BETTER WITH A FLAME SPREAD INDEX 28-75, SMOKE DEVELOPED INDEX 0-450. INTERIOR WALL AND CEILING FINISHES FOR CORRIDORS IN A 'B' OR 'S' OCCUPANCY SHALL HAVE A FLAME SPREAD RATING OF 'C' OR BETTER WITH A FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450. INTERIOR WALL AND CEILING FINISHES FOR ROOMS AND ENCLOSED SPACES IN 'B', 'S', AND 'A-2' OCCUPANCIES SHALL HAVE A FLAME SPREAD RATING OF 'C' OR BETTER WITH A FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450. INTERIOR FLOOR FINISHES TO BE OF CLASS I OR CLASS II MATERIALS AND CLASSIFIED IN ACCORDANCE WITH NFPA 253.
- DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR MEET NFPA 701.
- PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS IN ACCORDANCE WITH IBC SECTION 710.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH ADOPTED BUILDING CODE REGULATIONS.
- WOOD BLOCKING AND SHEATHING SHALL BE FIRE RETARDANT TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS
- EXTEND OR MODIFY EXISTING FIRE/LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE/LIFE SAFETY SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- LOCATE THE TOP-MOST OPERABLE PORTION OF FIRE ALARM INITIATING DEVICES NO MORE THAN 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
- EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
- EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL PROPRIETARY OR REMOTE STATION SERVICE WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
- FIRE ALARM SYSTEM SHALL BE MONITORED BY A LISTED SUPERVISING STATION.
- EXISTING AND NEW SLAB PENETRATIONS FOR PIPING SHALL BE FULLY PACKED AND SEALED WITH FIRE-RATED MATERIALS IN ACCORDANCE WITH APPLICABLE BLDG AND FIRE CODES.
- CONFIRM LOCATIONS OF STROBES AND EXIT SIGNS WITH ARCHITECT BEFORE INSTALLATION.

REFLECTED CEILING NOTES

- REVIEW GENERAL NOTES BEFORE COMMENCING WORK.
- SURVEY FIELD CONDITIONS AND VERIFY WORK IS BUILDABLE AS SHOWN. REFER TO MECHANICAL, ELECTRICAL, AND FIRE SPRINKLER DRAWINGS AND SPECIFICATIONS FOR DESIGN OF THESE SYSTEMS (DUCT SIZE, CIRCUITING, ETC.). CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION WHERE DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL AND FIRE SPRINKLER ITEMS OCCUR, IN CASE WHERE CONFLICTS ARISE BETWEEN THE LIGHTING AND THE DUCTWORK, THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK IN QUESTION OR ANY RELATED WORK.
- VERIFY FIELD CONDITIONS AND LOCATIONS OF ELECTRICAL, MECHANICAL, PLUMBING AND STRUCTURAL ELEMENTS, IN ADDITION TO OTHER APPLICABLE ITEMS, ARRANGE AND MODIFY NON-VISIBLE ITEMS TO ENSURE ADEQUATE CLEARANCES FOR CEILING LAYOUT AS SHOWN BEFORE RELATED ELEMENTS ARE CONSTRUCTED. IF THERE ARE QUESTIONS REGARDING THESE OR OTHER COORDINATION PROBLEMS, THE CONTRACTOR SHALL OBTAIN A WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK IN QUESTION OR WITH RELATED WORK.
- VERIFY ACCESS PANEL LOCATIONS AND STYLES WITH ARCHITECT BEFORE LAYOUT OF WORK REQUIRING ACCESS.
- WHERE EXISTING ACCESS PANELS CONFLICT WITH NEW CONSTRUCTION, CONFIRM RELOCATION OF EXISTING PANELS WITH ARCHITECT BEFORE PROCEEDING WITH WORK.
- CEILING TILE/ GRID/ HANGERS ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT OR MATERIALS, CABLES, CONDUIT, FIXTURES, ETC. SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
- SUBMIT FIRE SPRINKLER LAYOUT FOR COORDINATION REVIEW BY ARCHITECT. PATTERN OF SPRINKLER LAYOUT SHALL COORDINATE WITH PATTERN OF LIGHTING LAYOUT AND SHALL COORDINATE WITH OTHER CEILING COMPONENTS.
- VERIFY CLEARANCE OF ALL CEILING ELEMENTS PRIOR TO INSTALLATION OF ADJACENT ELEMENTS. CONTRACTOR SHALL FULLY COORDINATE CLEARANCE WITH CEILING.
- PLUMB ALL STEM, AIRCRAFT CABLE, AND APPURTENANCES USED TO SUPPORT SUSPENDED LIGHT FIXTURES.

FINISH NOTES

- ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- PROTECT FLOORING FROM DAMAGE DURING CONSTRUCTION.
- PROVIDE LEVEL 4 FINISH ON PARTITIONS UNO.
- PROVIDE 3-COAT PAINT SYSTEMS MIN FOR EA SUBSTRATE UNO.
- REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
- PAINT TO BE LOW V.O.C. UNLESS NOTED OTHERWISE.
- PREPARE SLAB AS REQUIRED TO RECEIVE SPECIFIED FINISH PER MANUFACTURER'S RECOMMENDATIONS. REFER TO FINISH PLAN AND SCHEDULE FOR FINISH LOCATION AND INFORMATION.

EQUIPMENT NOTES

- VERIFY WITH EACH MANUFACTURER OF EQUIPMENT FOR ALL SPECIAL REQUIREMENTS (IE. PROVIDING AND INSTALLING SPECIAL RECEIPLACES, ATTACHING END CONNECTORS ON CABLES OR CABLES TO MACHINES, ETC.), IF NOT SPECIFICALLY EXCLUDED FROM CONTRACT AGREEMENT. CONNECTIONS SHALL BE CONSIDERED TO BE INCLUDED IN THE WORK OF THE ELECTRICAL CONTRACTOR.
- SHOULD DISCREPANCIES IN EQUIPMENT INFORMATION OCCUR, NOTIFY DESIGNER AND CONSULT MANUFACTURER'S INSTALLATION INFORMATION.
- PROVIDE ELECTRICAL AND PLUMBING HOOK-UPS FOR EQUIPMENT AS REQUIRED PER THE EQUIPMENT, MANUFACTURER AND CODE.
- REFER TO ELECTRICAL DRAWINGS TO DETERMINE EQUIPMENT REQUIREMENTS, SOLE DEDICATION OF A CIRCUIT (I.E., EQUIPMENT IN PRIVATE OFFICES AND WORKSTATIONS).
- SEE REFLECTED CEILING PLAN DRAWINGS FOR ADDITIONAL INFORMATION, SPECIAL EQUIPMENT LOCATED IN CEILINGS (IE. PROJECTION SCREENS), ETC., TYPICAL.

MILLWORK NOTES

- PROVIDE GROMMET HOLES W/COVER PLATES WHERE INDICATED ON DRAWINGS. EXACT LOCATIONS TO BE DETERMINED ON SHOP DRAWINGS.
- SHIM MILLWORK INSTALLED AGAINST NON-MILLWORK CONSTRUCTION.
- COORDINATE LOCATIONS OF ELECTRICAL AND VOICEDATA DEVICES, PLUMBING, ETC., MOUNTED WITHIN AND OR ON MILLWORK WITH ELECTRICAL, PLUMBING, ETC., CONTRACTORS AND MILLWORKER.
- DIMENSIONS SHOWN FOR FURNITURE AND EQUIPMENT (BY OWNER AND/OR CONTRACTOR) ARE FOR REFERENCE ONLY. COORDINATE WITH FURNITURE/EQUIPMENT INSTALLER AND PROVIDE OPENINGS AS REQUIRED TO ENSURE PROPER FIT AND FUNCTION WITH MILLWORK.
- PROVIDE FINISHED END PANELS TO MATCH CABINET FACE AT EXPOSED CABINET END SURFACES.

GENERAL NOTES

- COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS GOVERNING THE WORK.
- REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FILED CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASES, FABRICATION OR INSTALLATION.
- COORDINATE WORK WITH THE OWNER/ LANDLORD/ LANDLORD'S REPRESENTATIVE/ MALL OPERATION MANAGER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING/ MALL FUNCTIONS AND OCCUPANTS.
- COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
- MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
- PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
- MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH OWNER AND LANDLORD TO ENSURE SECURITY.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
- OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
- WHERE EXISTING ACCESS PANELS CONFLICT WITH NEW CONSTRUCTION, CONFIRM RELOCATION OF EXISTING PANELS WITH ARCHITECT BEFORE PROCEEDING WITH WORK.
- DIMENSIONS ARE FROM FACE OF FINISH UNO. MAINTAIN DIMENSIONS MARKED "CLEAR" ALLOW FOR THICKNESSES AND MOUNTING OF FINISHES.
- DIMENSIONS NOTED "CLEAR" OR "CLR" MUST ALLOW FOR THICKNESS OF WALL FINISHES BE ACCURATELY MAINTAINED AND SHALL NOT CARRY MORE THAN 1/8" WITHOUT WRITTEN APPROVAL FROM ARCHITECT.
- DIMENSIONS MARKED "+/-" MEAN A TOLERANCE NOT GREATER NOR SMALLER THAN 2 INCHES FROM INDICATED DIMENSIONS. NOTIFY ARCHITECTS OF ANY DIMENSIONS EXCEEDING TOLERANCE & OBTAIN WRITTEN APPROVAL FROM ARCHITECT BEFORE PROCEEDING.
- "ALIGN" MEANS TO ACCURATELY LOCATE FINISHED FACES IN THE SAME PLANE.
- WORK SHALL BE ERRECTED AND INSTALLED PLUMB, LEVEL, SQUARE, TRUE AND IN PROPER ALIGNMENT.
- MAINTAIN THE RATING OF EXISTING RATED ASSEMBLIES.
- PROVIDE CONTROL JOINTS AS NEEDED TO AVOID CRACKING ON WALLS AND CEILINGS. COORDINATE WITH ARCHITECT LOCATION.
- CONFIRM REQUIRED CLEARANCES WITH SPECIFIED APPLIANCES. COORDINATE CLEARANCES WITH NEW CONSTRUCTION.

DEMOLITION NOTES

- COORDINATE DEMOLITION WORK WITH INTERIOR DESIGN DEMOLITION DRAWINGS.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS. MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK. COORDINATE NEW WORK AND DEMOLITION // OTHER DISCIPLINES EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
- ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
- PROVIDE ALL NECESSARY DEMOLITION PRIOR TO CONSTRUCTION. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
- REMOVE FROM SITE DAILY AND LEGALLY DISPOSED OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- FIRE AND LIFE SAFETY SYSTEMS TO REMAIN OPERABLE DURING DEMOLITION. REMOVE FIRE EXTINGUISHER CABINETS IN WALLS SCHEDULED FOR DEMOLITION. MAINTAIN TEMPORARY FIRE EXTINGUISHERS AT A DISTANCE REQUIRED BY ADOPTED CODE DURING CONSTRUCTION. SALVAGE FOR POSSIBLE REUSE.
- REFER TO MECHANICAL, ELECTRICAL, PLUMBING & STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION FOR THOSE TRADES.
- EXISTING STRUCTURAL FIREPROOFING IS TO REMAIN UNDISTURBED, UNO.
- DO NOT ALTER LANDLORD'S STRUCTURE.
- THE ARCHITECT HAS CONDUCTED NO TEST FOR, AND MADE NO DETERMINATION OF THE PRESENCE OR LACK OF ASBESTOS OR OTHER HAZARDOUS OR TOXIC SUBSTANCES OR POLLUTANTS.
- LAYOUT DEMOLITION AND CONFIGURATION IS BASED ON OWNER PROVIDED PARTIAL DOCUMENTS AND LIMITED FIELD OBSERVATION. ACTUAL CONFIGURATION MAY VARY AND CRITICAL DIMENSIONS & EXISTING CONDITIONS SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION.
- COMPLETE FINAL CLEAN UP AND WIPE-DOWN OF BUILDING AREAS AFFECTED BY DEMOLITION WHEN WORK IS COMPLETE.
- PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF MALL AND OTHER WORKERS.
- COORDINATE WITH LANDLORD OF ANY RELOCATION OF (E) SERVICE LINES, SUCH AS WATER LINE, GAS LINE, DOMESTIC WATER, ETC.
- COORDINATE WITH LANDLORD ON CORE DRILLING OR SLAB TRENCHING PER NEW WORK. DO NOT START WORK WITHOUT APPROVAL FROM LANDLORD.

US VETS12027 N 28TH DRIVE
PHOENIX, A 85029**CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT**

Project Number: AH10010002

GenslerPatrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United StatesTel 602.523.4904
Fax 602.523.4949

△ Date	Description

KIVA # _____

SDEV # _____

Note:

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Seal / Signature


Project Name

ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number

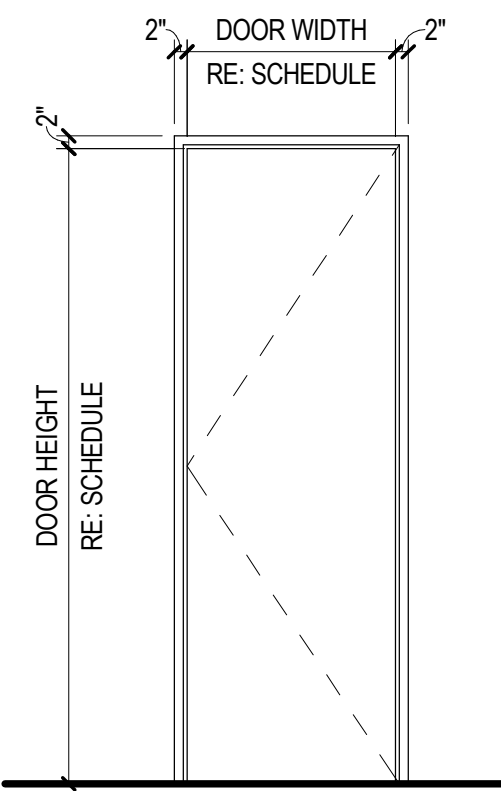
057.8221.100

Description

GENERAL NOTES

Scale

G1.00

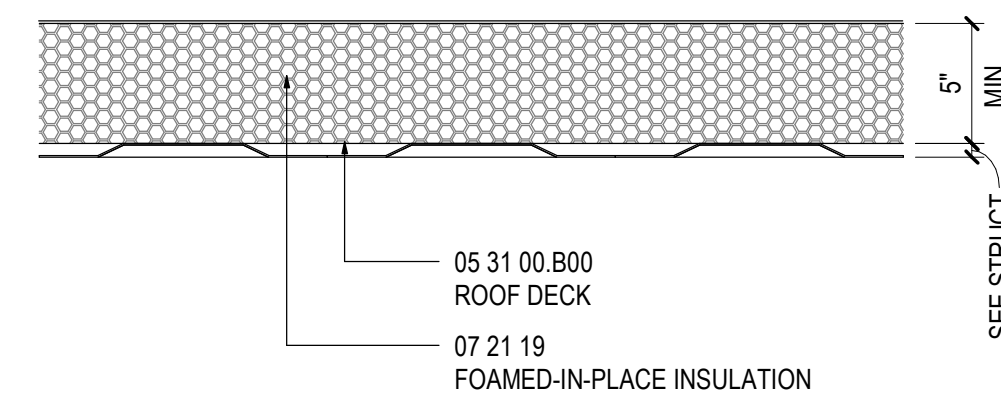


TYPE A1 - HM DOOR & HM FRAME

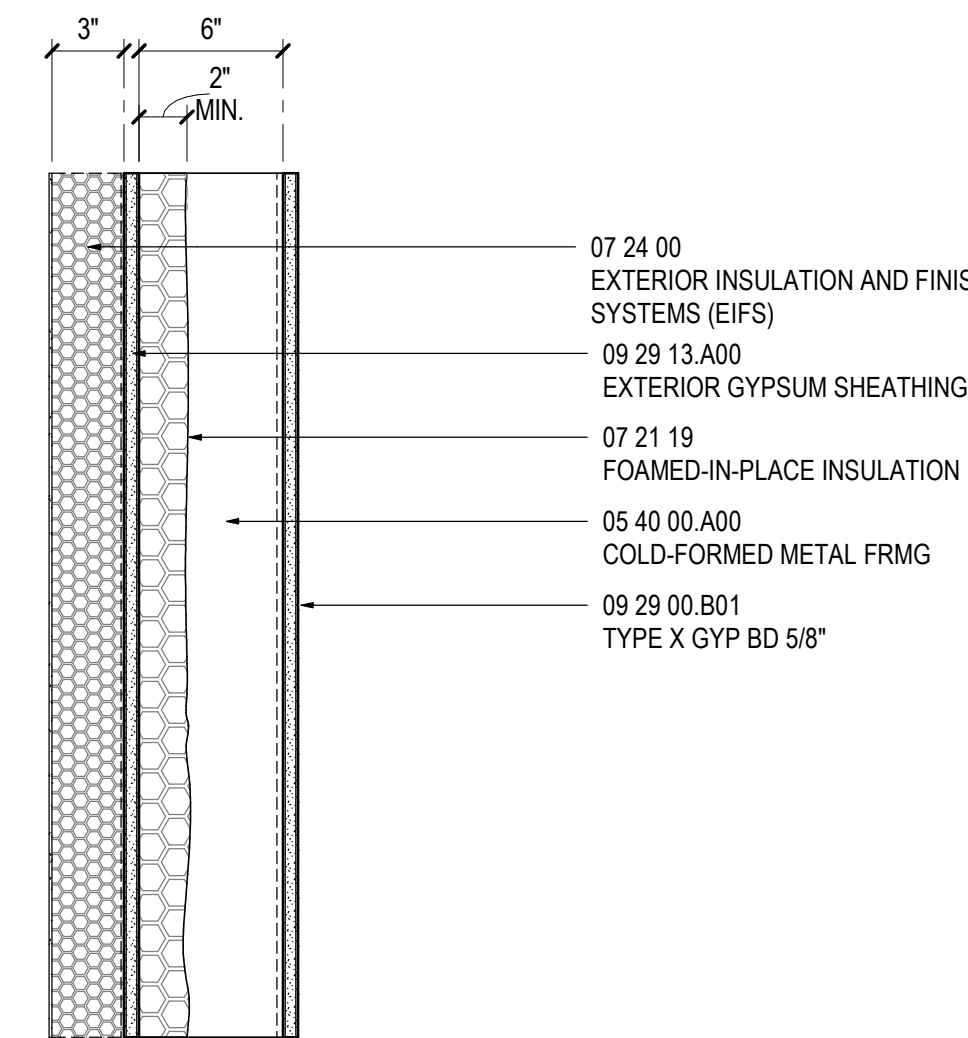
NUMBER	LOCATION	TYPE	DOOR ASSEMBLY				FRAME ASSEMBLY		ASSEMBLY RATING	HARDWARE SET	REMARKS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	MATERIAL	FINISH			
01		A1	3'-0"	7' - 6"	1-3/4"	HM		HM		CONDUIT ENCLOSURE + IDF ROOM	
02	(E) ELEC	A1	3'-0"	6' - 8"	1-3/4"	HM		HM	PT	CONDUIT ENCLOSURE + IDF ROOM	

DOOR TYPES

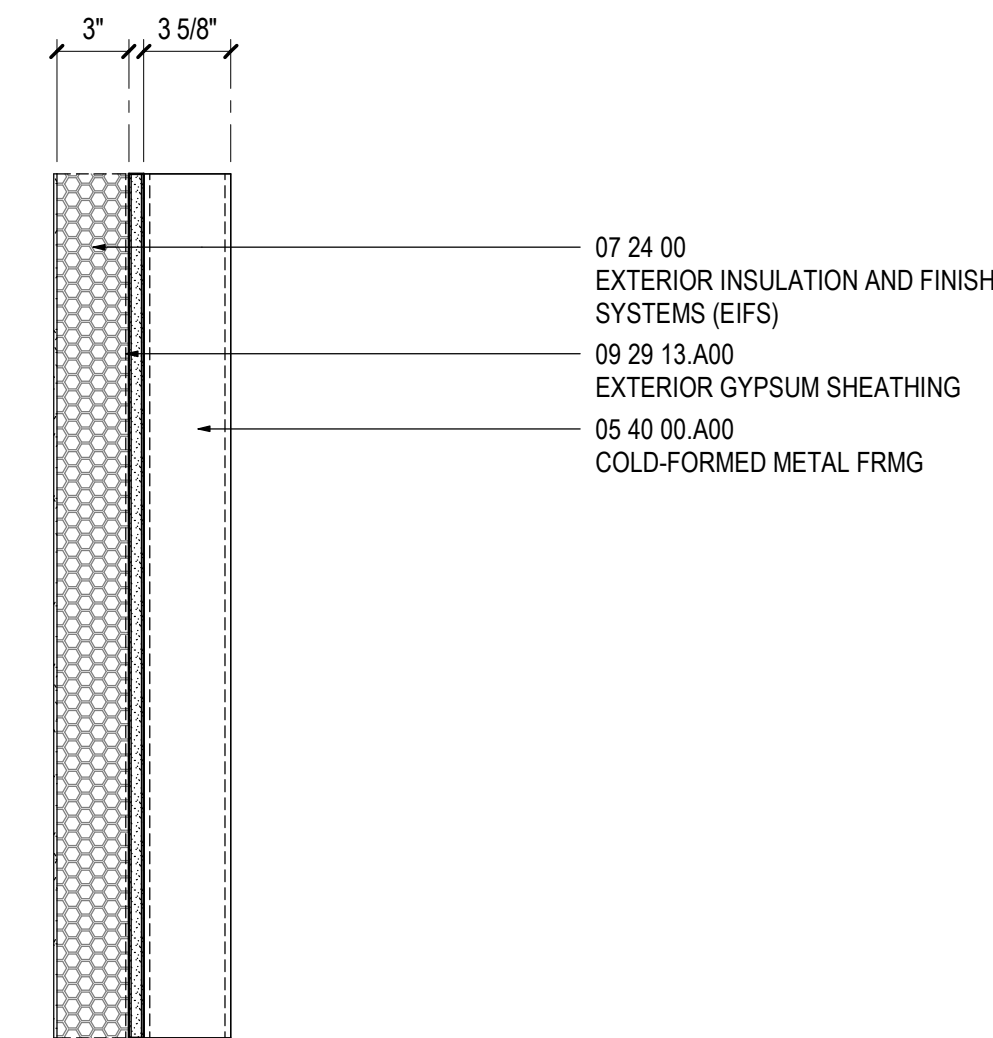
DOOR SCHEDULE



14 ROOF ASSEMBLY RF-01
SCALE: 1 1/2" = 1'-0"



10 WALL ASSEMBLY WA-01
SCALE: 1 1/2" = 1'-0"



06 WALL ASSEMBLY WA-02
SCALE: 1 1/2" = 1'-0"

SYMBOL	MANUFACTURER/DESCRIPTION
PT01	EXTERIOR PAINT 09 91 23 INTERIOR PAINT CODE: PT01 LOCATION: EXTERIOR WALLS MANUFACTURER: SHERWIN-WILLIAMS MODEL NAME: TBD MODEL NUMBER: TBD SIZE: N/A COLOR: MATCH COLOR @ EXISTING EXTERIOR WALLS FINISH: - NOTE: - CONTACT: -
PT02	09 91 13 EXTERIOR PAINT CODE: PT02 LOCATION: DOOR & FRAME @ DOOR # 01 MANUFACTURER: SHERWIN-WILLIAMS MODEL NAME: TBD MODEL NUMBER: TBD SIZE: N/A COLOR: MATCH COLOR @ EXISTING EXTERIOR WALLS FINISH: EGGSHELL NOTE: - CONTACT: -

FINISH SCHEDULE

SHEET NOTES

GENERAL NOTES

- DOORS SHALL BE 1 3/4" THICK, UNLESS OTHERWISE NOTED.
- DOORS SHALL BE TRIMMED AT THRESHOLD TO PROVIDE 3/4" MINIMUM CLEARANCE (UNO) ABOVE FLOOR FINISH MATERIAL TO ALLOW FOR FULL DOOR SWING.
- VERIFY ACTUAL DOOR HEIGHT TO PROPERLY SIZE THE OPENINGS.
- COORDINATE OPENING SIZES WITH FIXTURE VENDOR AND ASSIST WITH INSTALLATION ON DOORS & FRAMES WHICH ARE PROVIDED BY FIXTURE VENDOR.
- EXIT DOORS TO HAVE SIGN WHICH READS: "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." VERIFY WITH ARCHITECT ON SIGN MOUNTING LOCATION.
- PROVIDE LABELS FOR DOORS AND FRAMES IN RATED WALLS TO SATISFY FIRE RATING REQUIREMENT.
- DOOR AT FULLY OPEN POSITION SHALL NOT PROJECT MORE THAN 7 INCHES INTO THE REQUIRED PATH OF EGRESS TRAVEL WIDTH (AS PART OF A COMPONENT OF A MEANS OF EGRESS) SHALL BE OPENABLE BY A SIMPLE METHOD FROM BOTH SIDES WITHOUT SPECIAL KNOWLEDGE OR EFFORT. THE FORCE REQUIRED TO OPERATE THE DOOR SHALL NOT EXCEED 30 POUNDS TO SET THE DOOR IN MOTION AND 15 POUNDS TO CLOSE THE DOOR OR OPEN IT TO THE MINIMUM REQUIRED WIDTH.
- MANUALLY OPERATED HORIZONTAL SLIDING DOORS ARE PERMITTED IN A MEANS OF EGRESS FROM SPACES WITH AN OCCUPANT LOAD OF 10 OR LESS.
- REFER TO ACCESSIBILITY NOTES FOR ACCESSIBILITY REQUIREMENTS AT DOORS.
- DOOR GLAZING ASSEMBLIES SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS PER IBC 2018 SECTIONS 2406.4.1 AND 2406.4.2.
- PER IBC 2406.4.1 AND 2406.4.2 GLAZING IN DOORS AND GLAZING ADJACENT TO DOORS ARE TO BE TEMPERATE. COMPLY WITH IBC SECTION 2406 AND PROJECT MANUAL SECTION 08 80 00 - GLAZING SAFETY GLASS REQUIREMENTS.

LEGEND

AL =ALUMINUM	HM =HOLLOW METAL
BS =BLDG STANDARD	NR =NON FIRE RATED
CL =CLEAR	PG =PAINT GRADE
(E) =EXISTING	PT =PAINT
FH =FULL HEIGHT	SC =SOLID CORE
FR =FIRE RATED	
GL =GLASS	ST =STAIN
HC =HOLLOW CORE	T =TEMPERED GLASS
	WD =WOOD

US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
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HOUSING DEPARTMENT
Project Number: AH10010002

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Patrick Magness
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Suite 115
Phoenix, AZ 85016
United States
Tel: 602.523.4904
Fax: 602.523.4949

Date	Description
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KIVA # _____
SDEV # _____

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Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
DOOR SCHEDULE, EXTERIOR ASSEMBLIES & MATERIAL SCHEDULE

Scale
As indicated

G6.00

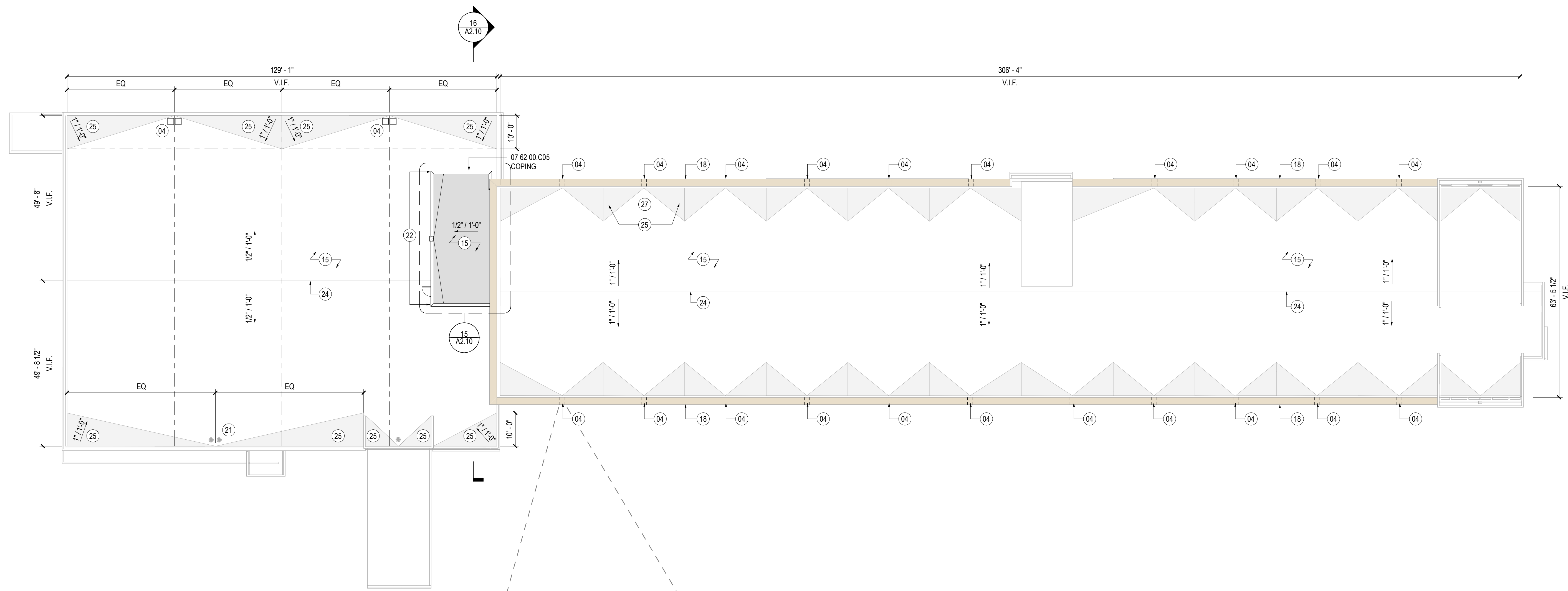
US VETS

12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
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Project Number: AH10010002

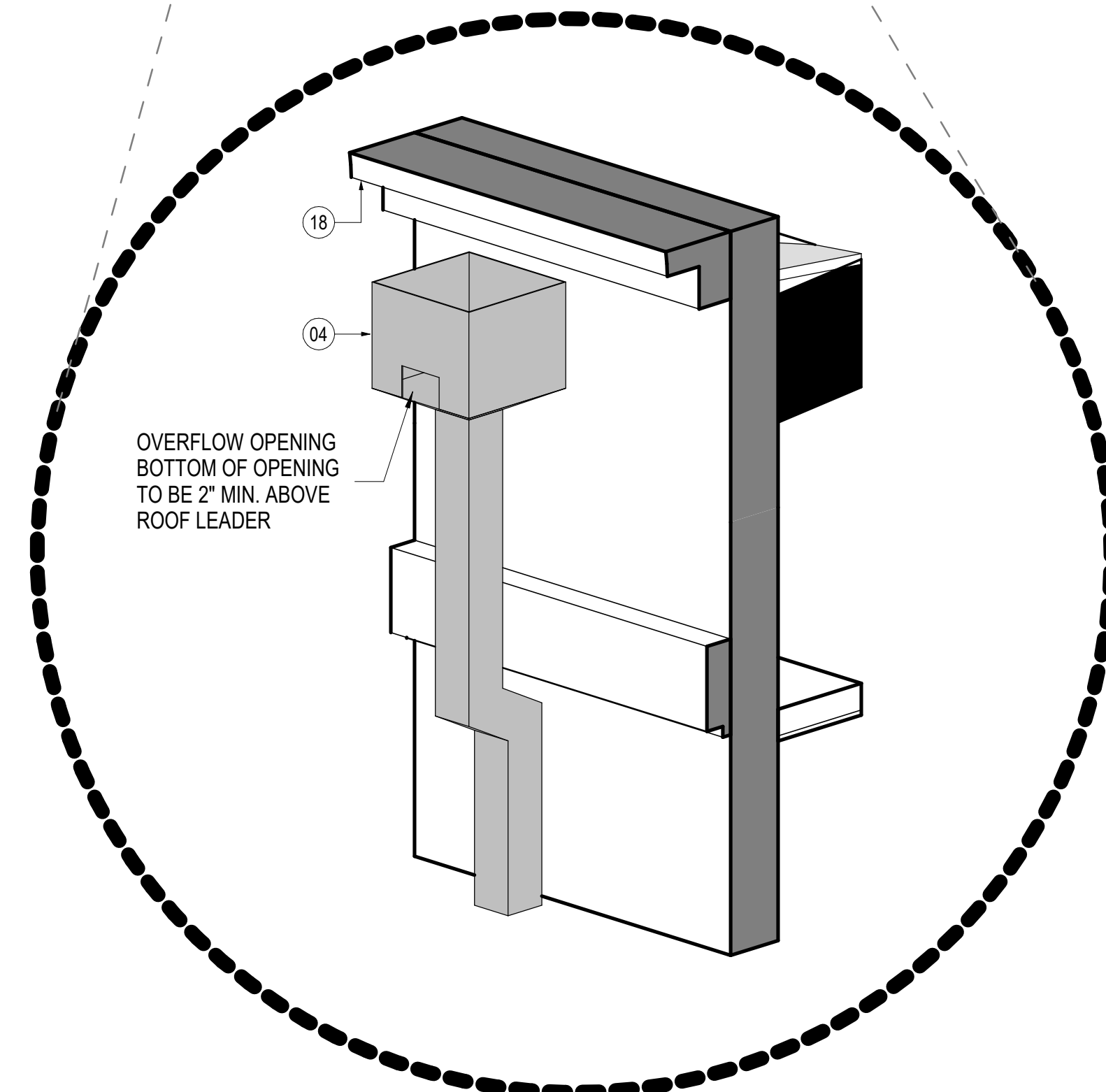
Gensler

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18 OVERALL ROOF PLAN

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



16 SCUPPER MAIN ROOF, TYP.

SCALE:

GENERAL NOTES

SHEET NOTES

- 04 NEW THROUGH WALL SCUPPER WITH INTEGRAL OVERFLOW, DOWN LEADER AND SPLASH BLOCK
- 15 NEW SPRAYFOAM ROOFING
- 18 EXISTING PARAPET / CORNICE REPLACE PARAPET CAP THROUGHOUT
- 21 ROOF DRAIN & OVERFLOW DRAIN, ZURN 21625-34C R EQUAL V.I.F. WITH EXISTING ROOF LEADERS TO REMAIN
- 22 CONDUIT ENLOSURE
- 24 ROOF RIDGE LINE
- 25 ROOF CRICKET
- 27 TYP. CRICKET SLOPE @ HIGH ROOF

KEY PLAN

Date	Description

KIVA # _____
SDEV # _____

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1 of xx?

Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

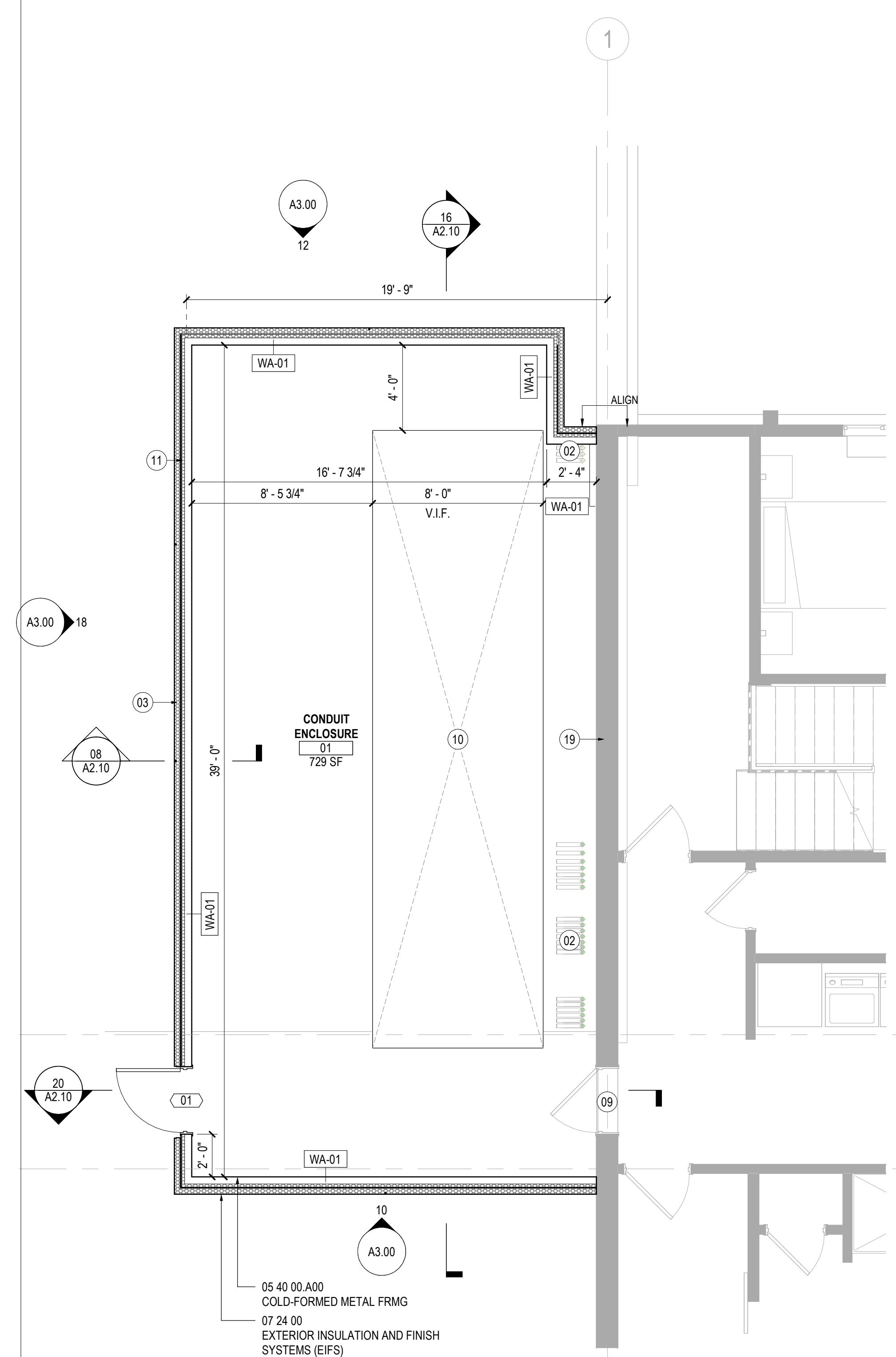
Project Number
057.8221.100

Description
OVERALL ROOF PLAN

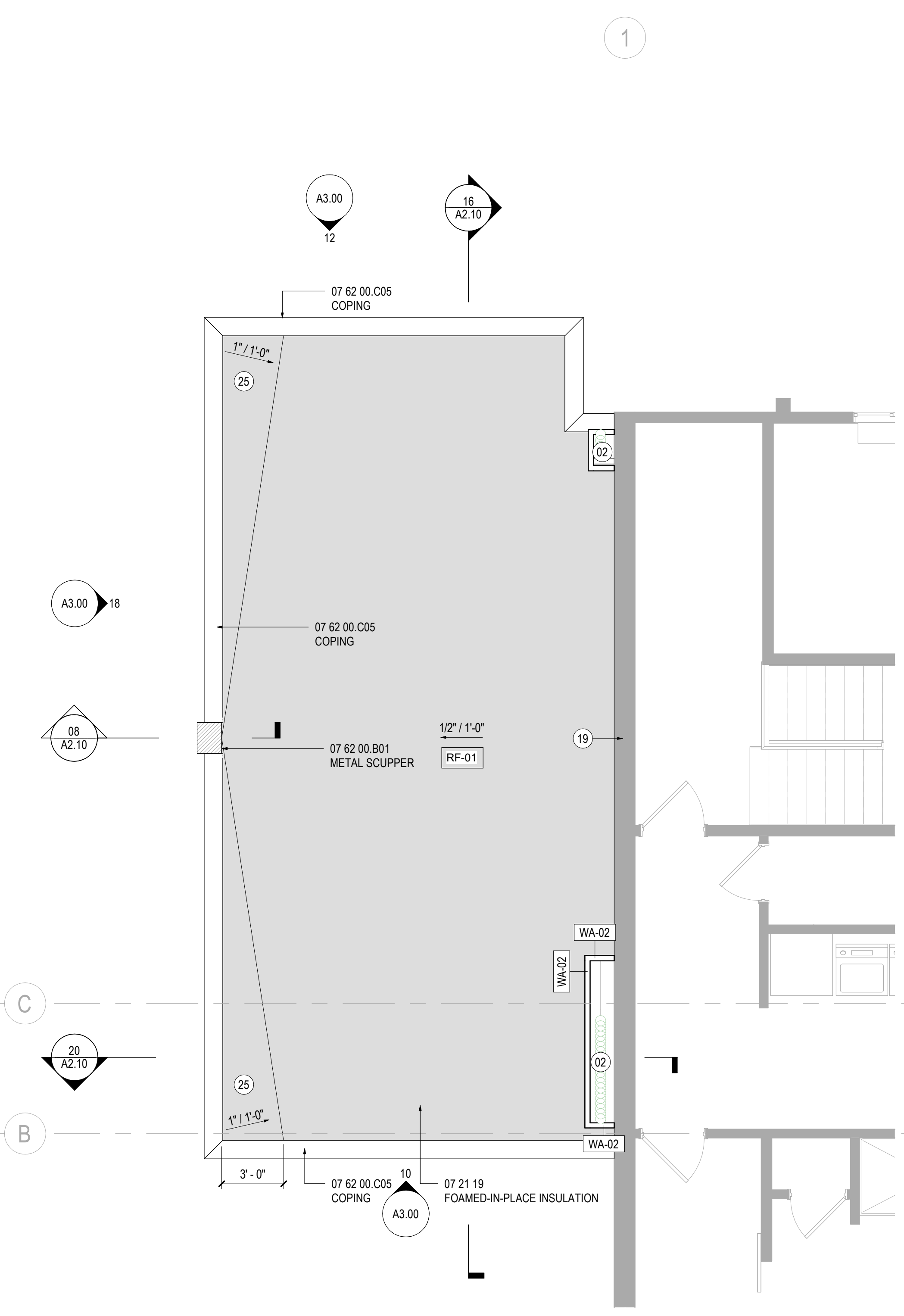
Scale
1/16" = 1'-0"

A2.00

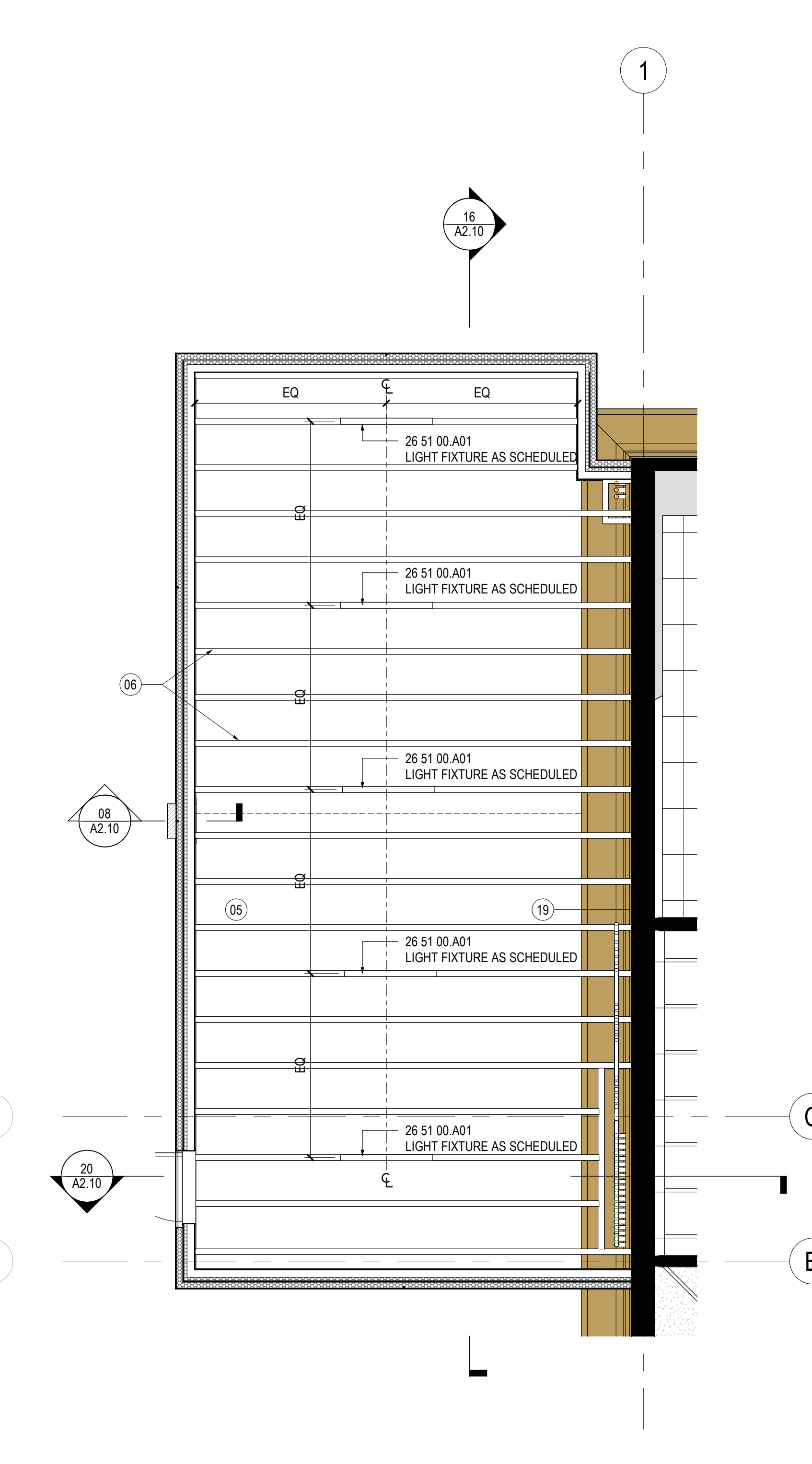
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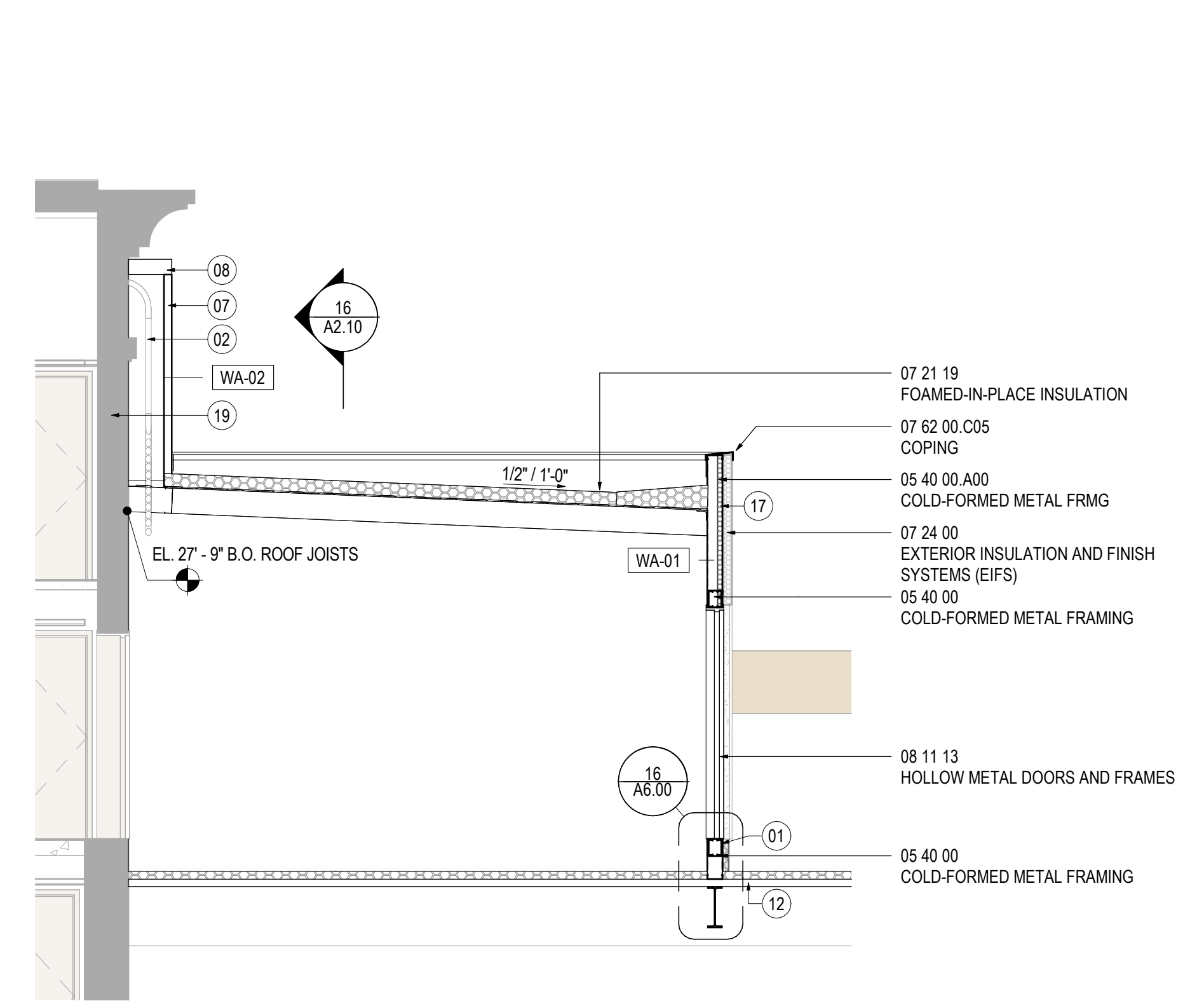
19 CONDUIT ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



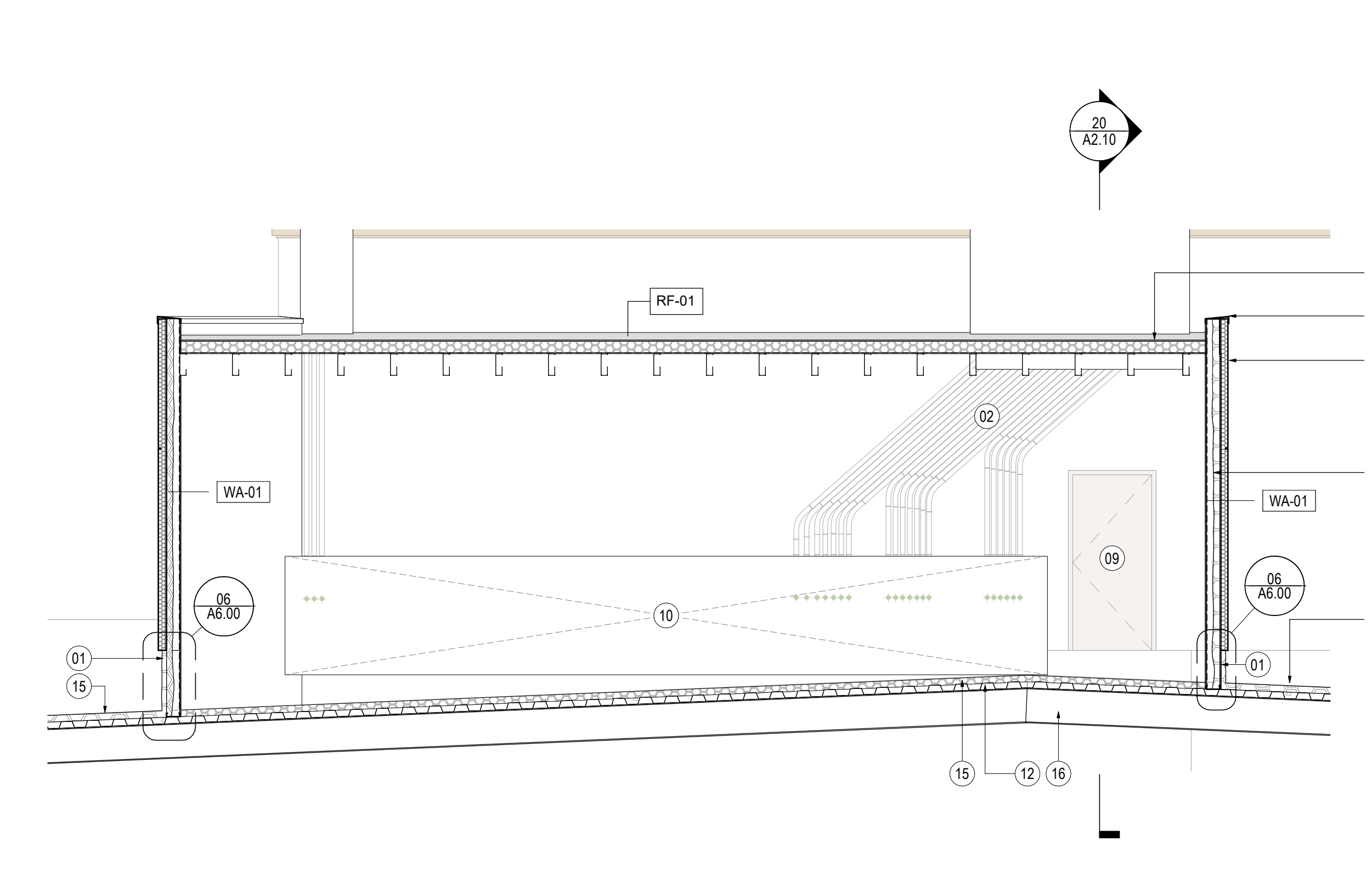
15 CONDUIT ENCLOSURE ROOF PLAN
SCALE: 1/4" = 1'-0"



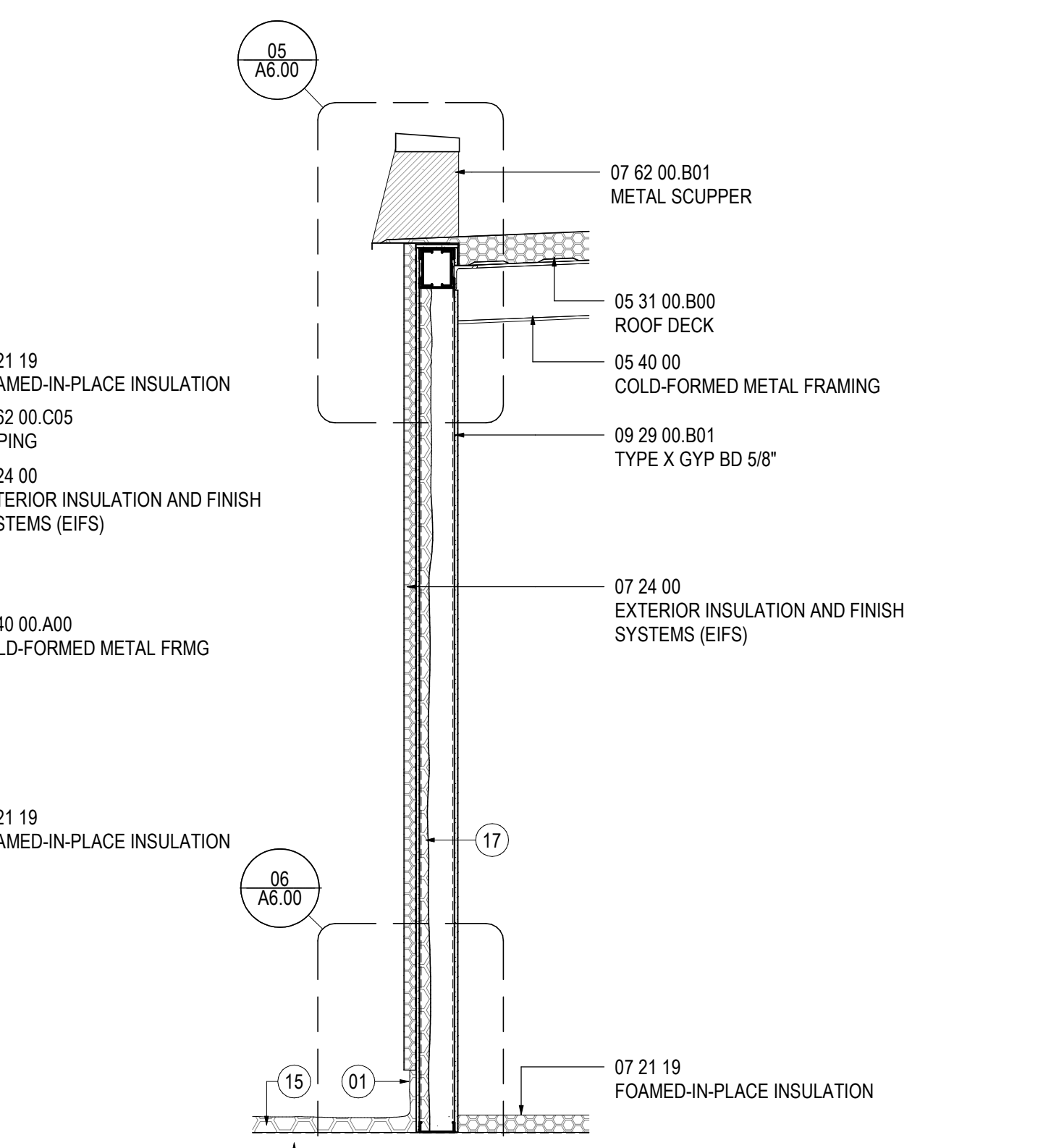
07 CONDUIT ENCLOSURE RCP
SCALE: 1/4" = 1'-0"



20 SECTION THROUGH CONDUIT ENCLOSURE - 01
SCALE: 1/4" = 1'-0"



16 SECTION THROUGH ENCLOSURE CONDUIT ENCLOSURE - 02
SCALE: 1/4" = 1'-0"



08 WALL SECTION @ SCUPPER
SCALE: 1/2" = 1'-0"

SHEET NOTES

- 01 SPRAYFOAM BASE, SEE WALL SECTIONS & DETAILS
- 02 EXISTING ELECTRICAL CONDUITS
- 03 EIFS ENCLOSURE TO SIT ABOVE EXISTING ROOF WEB
- 05 STEEL DECK SEE STRUCTURAL
- 06 ROOF JOISTS, SEE STRUCTURAL
- 07 ENCLOSURE FOR CONDUITS ABOVE CEILING
- 08 CAPPING FOR CONDUIT ENCLOSURE
- 09 EXISTING DOOR TO THE ROOF
- 10 EXISTING CONDUITS & PULL BOXES
- 11 ALIGN CENTER OF STUD WITH CENTER OF EXISTING ROOF STRUCTURE, GC TO VERIFY LOCATION OF ROOF BEAM IN THE FIELD
- 12 EXISTING ROOF DECK
- 15 NEW SPRAYFOAM ROOFING
- 16 EXISTING ROOF STRUCTURE
- 17 2" MIN. SPRAYFOAM IN WALL (BETWEEN VERTICAL METAL STUDS)
- 19 EXISTING WALL
- 25 ROOF CRICKET

GENERAL NOTES

Date	Description

KIVA # _____
SDEV # _____

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KEY PLAN

Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
ENLARGED PLANS & SECTIONS
CONDUIT ENCLOSURE

Scale
As indicated

A2.10

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US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler
Patrick Magness
2575 E Camelback Rd
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United States

Tel 602.523.4904
Fax 602.523.4949

SHEET NOTES

- 01 3' X 6' 8" SINGLE HOLLOW METAL FRAME DOOR BLOCKED OFF FROM INSIDE THE ROOM. VENTILATION AT LINTEL TAPED OFF ON SITE. REMOVE EXISTING VENT LOUVERS AND FRAME.
- 02 EXISTING METAL SHELF FOR SERVER UNITS
- 03 3' X 6' 8" SINGLE HOLLOW METAL FRAME DOOR TO BE REPLACED. VERIFY DIMENSIONS OF EXISTING DOOR OPENING IN THE FIELD
- 04 EXISTING 1/2" GYPSUM WALL BOARD ON 2 1/2" METAL STUD TO BE REPLACED
- 05 EXISTING 1' X 4' FLOURESCENT LIGHTING FIXTURE
- 06 EXISTING FIRE SPRINKLER
- 07 EXISTING CEILING ACCESS PANEL LOCATION
- 08 EXISTING TILE FLOORING TO BE REPLACED

US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

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Patrick Magness Tel: 602.523.4904
2575 E Camelback Rd Fax: 602.523.4949
Suite 115
Phoenix, AZ 85016
United States

GENERAL NOTES

△	Date	Description
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KIVA # _____
SDEV # _____

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Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
ENLARGED PLANS IDF ROOM / DEMO

Scale
3/4" = 1'-0"

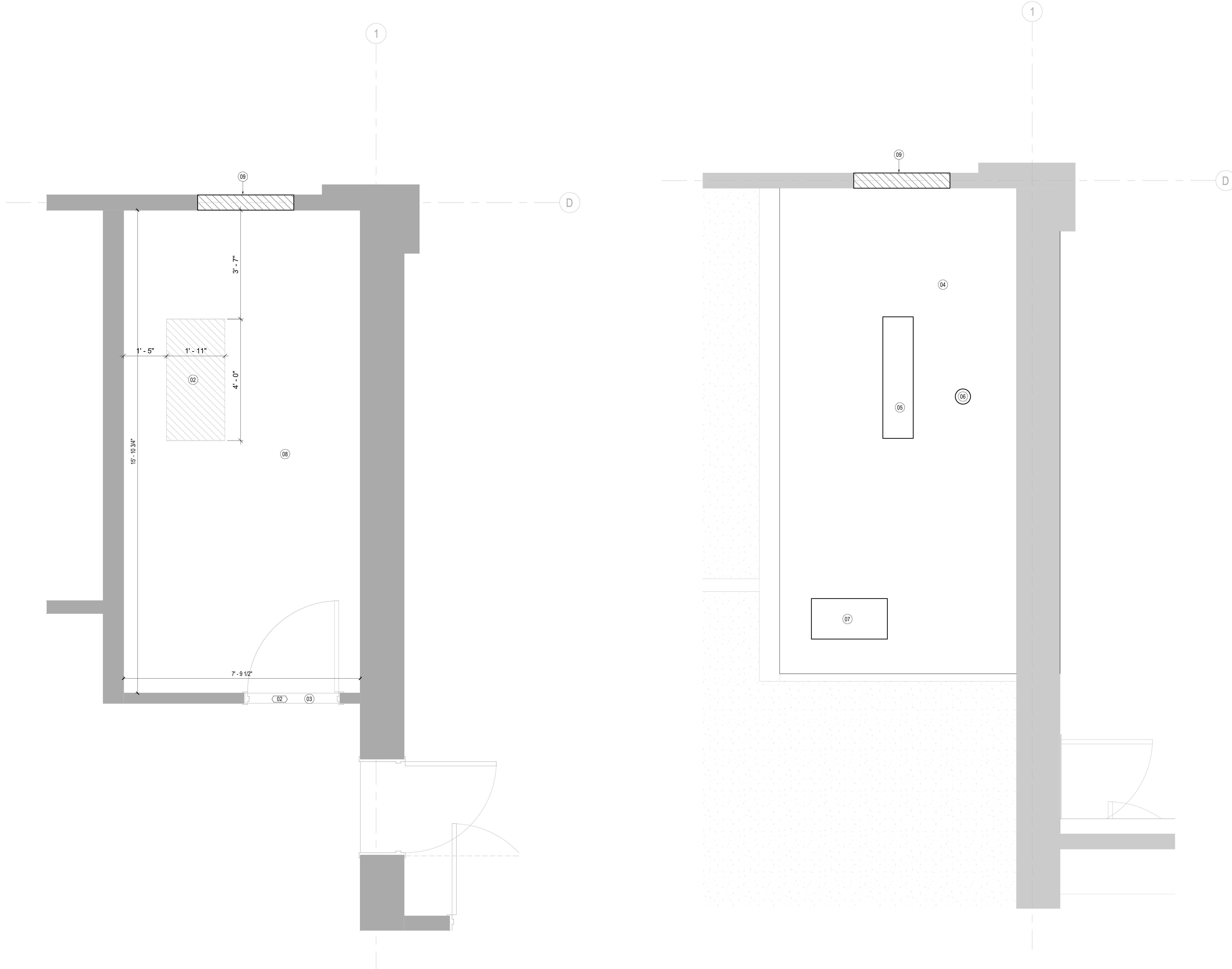
A2.11



20 ENLARGED PLAN DF ROOM / DEMO
SCALE: 3/4" = 1'-0"

12 ENLARGED RCIP IDF ROOM
SCALE: 3/4" = 1'-0"

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SHEET NOTES

- 02 EXISTING METAL SHELF FOR SERVER UNITS
- 03 3' X 6' 8" SINGLE HOLLOW METAL FRAME DOOR TO BE REPLACED. VERIFY DIMENSIONS OF EXISTING DOOR OPENING IN THE FIELD
- 04 EXISTING 1/2" GYPSUM WALL BOARD ON 2 1/2" METAL STUD TO BE REPLACED
- 05 EXISTING 1' X 4' FLOURESCENT LIGHTING FIXTURE
- 06 EXISTING FIRE SPRINKLER
- 07 EXISTING CEILING ACCESS PANEL LOCATION
- 08 EXISTING TILE FLOORING TO BE REPLACED
- 09 FILL IN OPENING IN WALL (PRE- VENT LOUVER). MATCH SURROUNDING WALL, EXTERIOR FOINISH TO MATCH ADJACANT WALL FINISH & COLOR

US VETS
 12027 N 28TH DRIVE
 PHOENIX, A 85029

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GENERAL NOTES

Date	Description
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 SDEV # _____

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Project Name
 ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
 057.8221.100

Description
 ENLARGED PLANS IDF ROOM

KEY PLAN

Scale
 3/4" = 1'-0"

A2.12

12 ENLARGED EXISTING RCP_IDF ROOM
 SCALE: 3/4" = 1'-0"

20 ENLARGED PLAN_IDF ROOM
 SCALE: 3/4" = 1'-0"

SHEET NOTES

- 01 SPRAYFOAM BASE, SEE WALL SECTIONS & DETAILS
- 03 EIFS ENCLOSURE TO SIT ABOVE EXISTING ROOF VEB
- 07 ENCLOSURE FOR CONDUITS ABOVE CEILING
- 08 CAPPING FOR CONDUIT ENCLOSURE
- 09 EXISTING DOOR TO THE ROOF
- 12 EXISTING ROOF DECK
- 16 EXISTING ROOF STRUCTURE
- 18 EXISTING PARAPET / CORNICE
- 20 SCORE JOINT IN EIFS SYSTEM
- 26 SCORE JOINT IN EIFS TO ALIGN WITH TOP OF DOOR

US VETS

12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
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GENERAL NOTES

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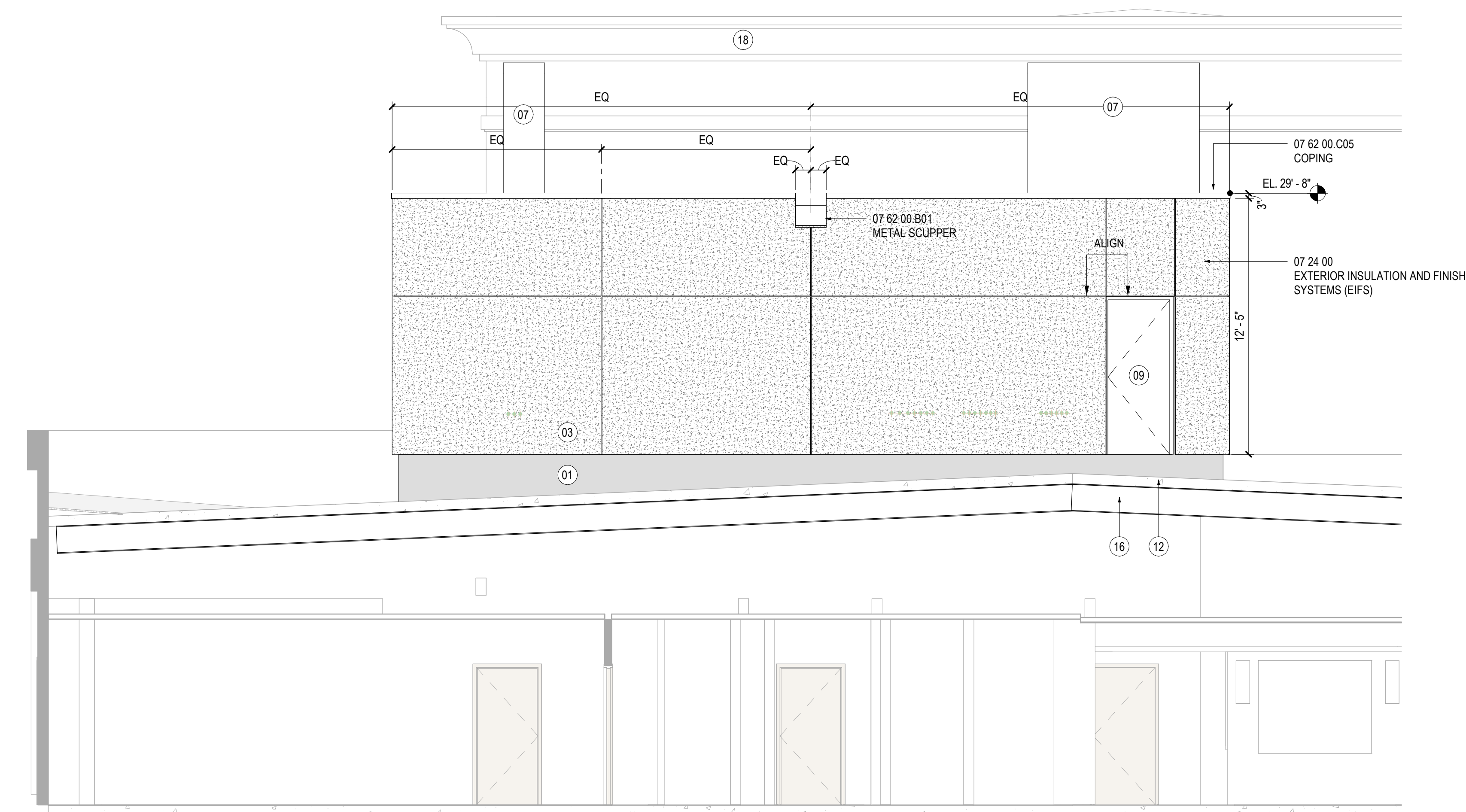


Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements
Project Number
057.8221.100
Description
CONDUIT ENCLOSURE / BUILDING ELEVATIONS

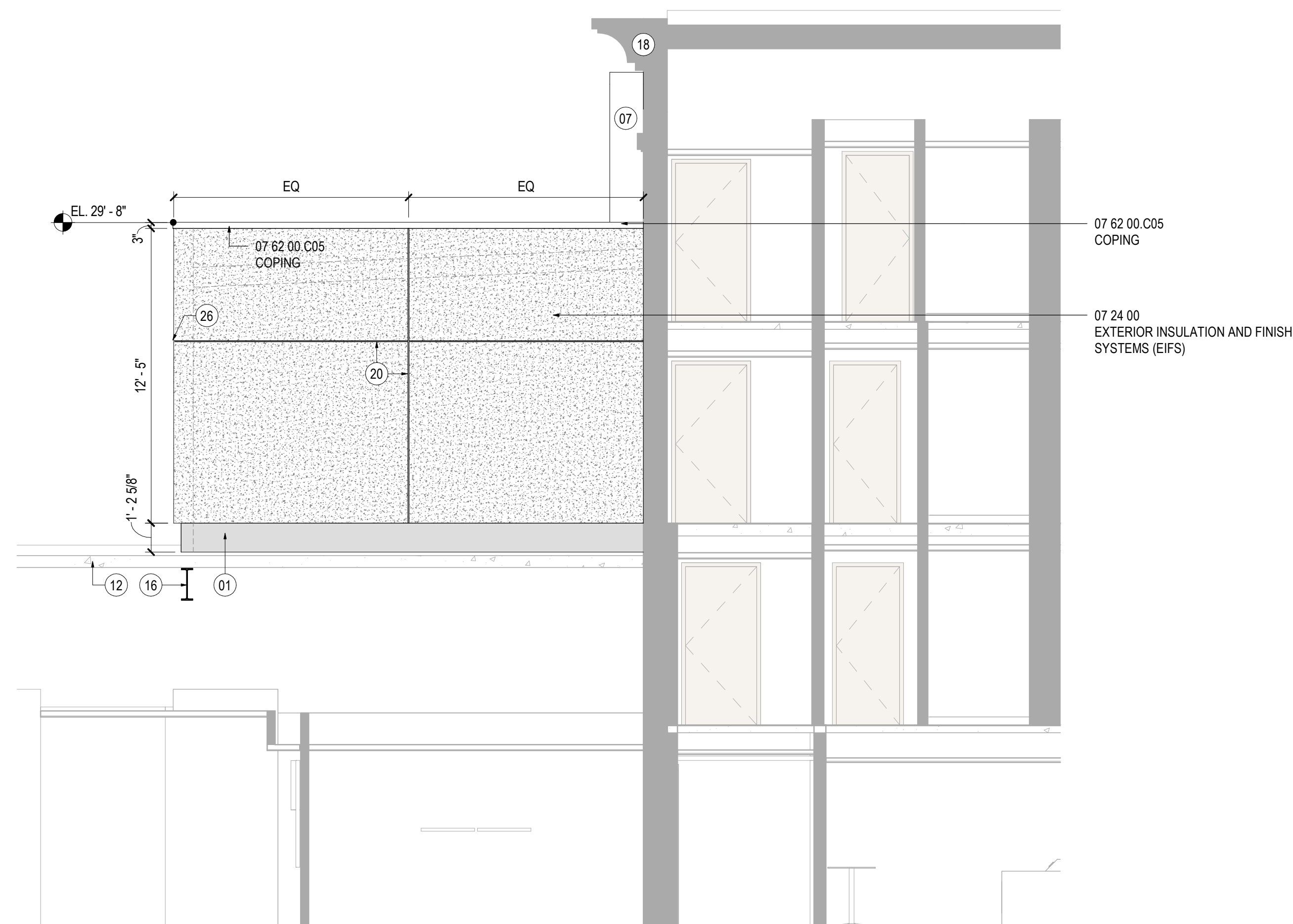
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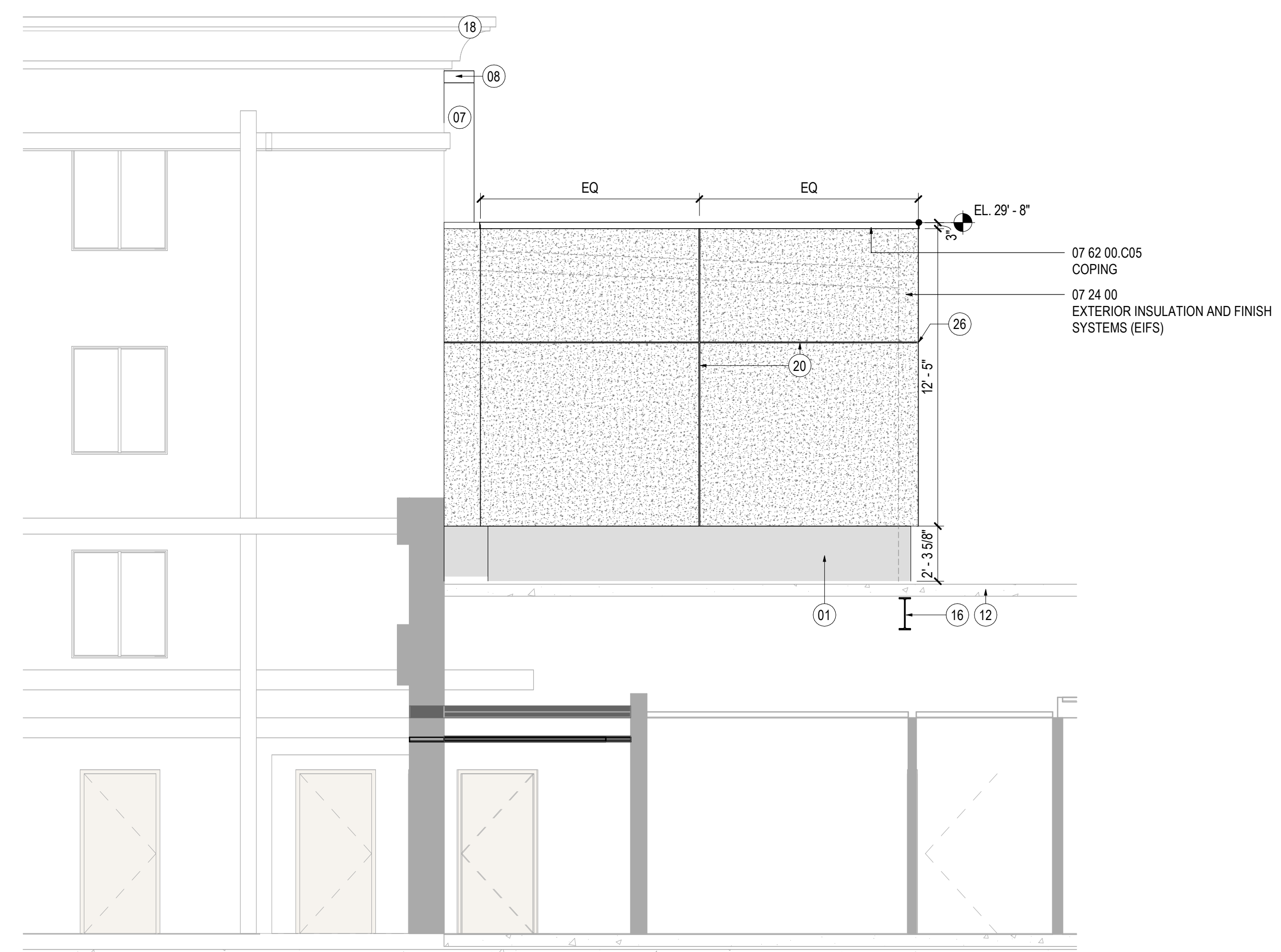
KEY PLAN



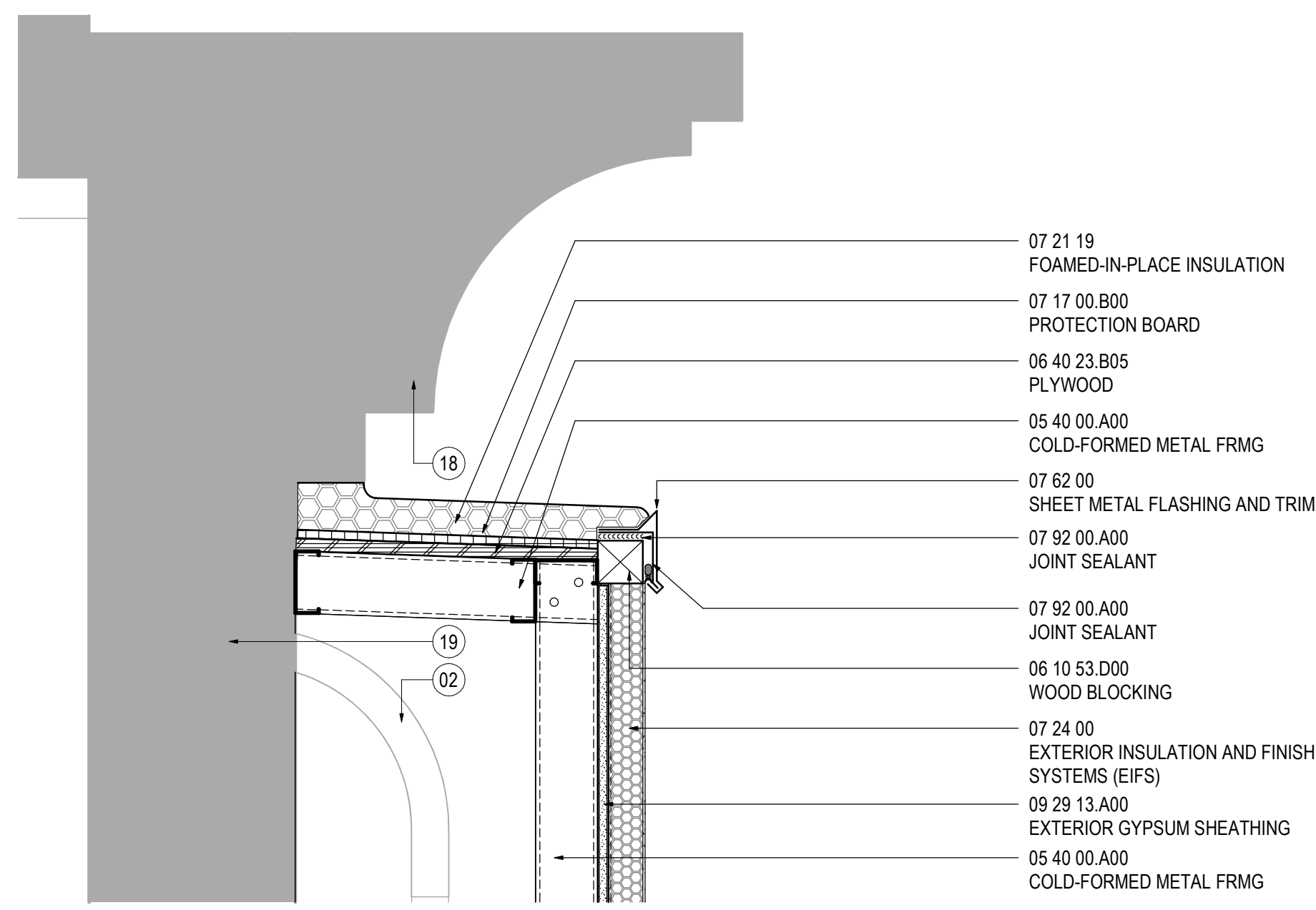
18 WEST ELEVATION
SCALE: 1/4" = 1'-0"



10 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

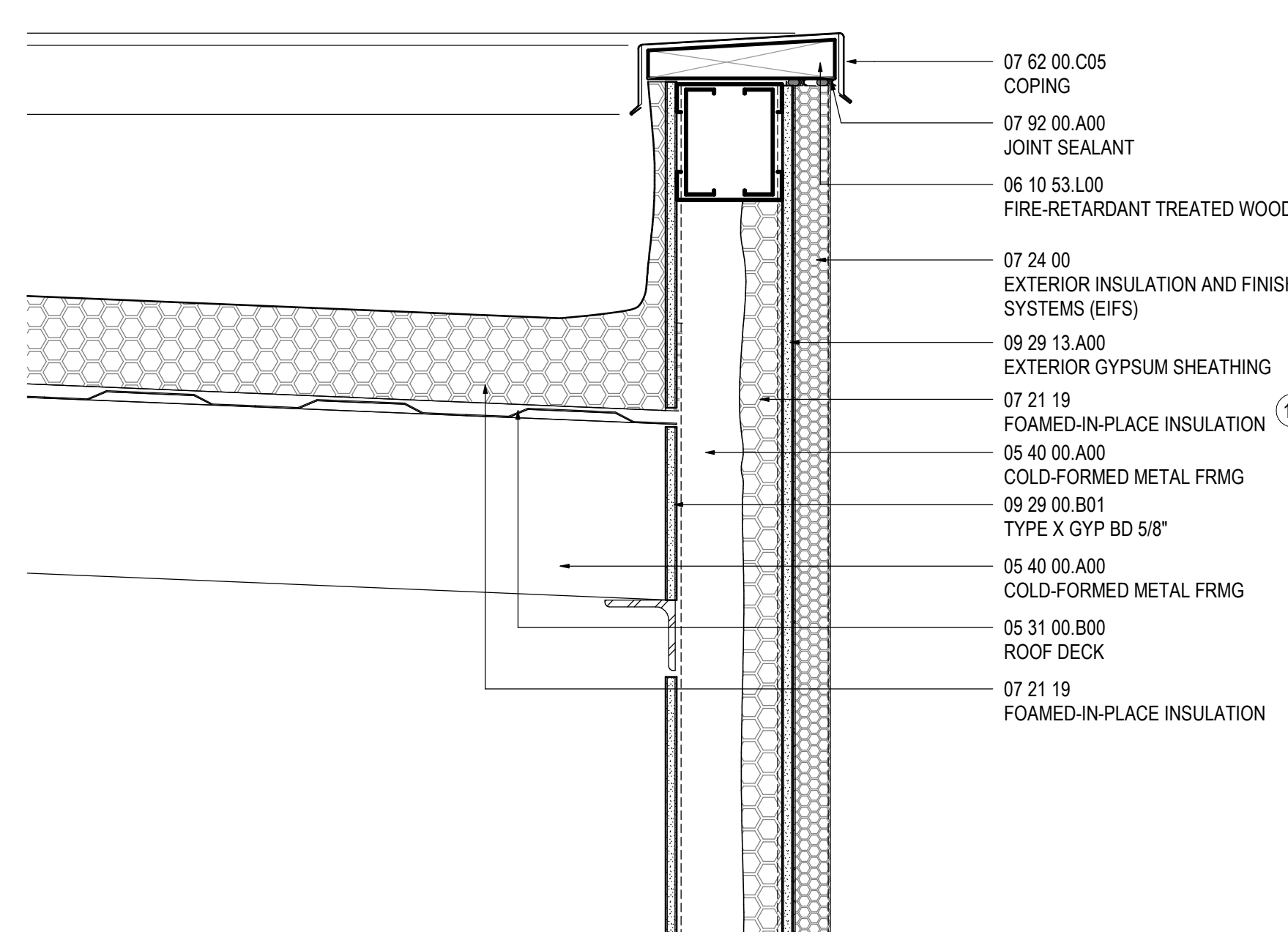


12 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



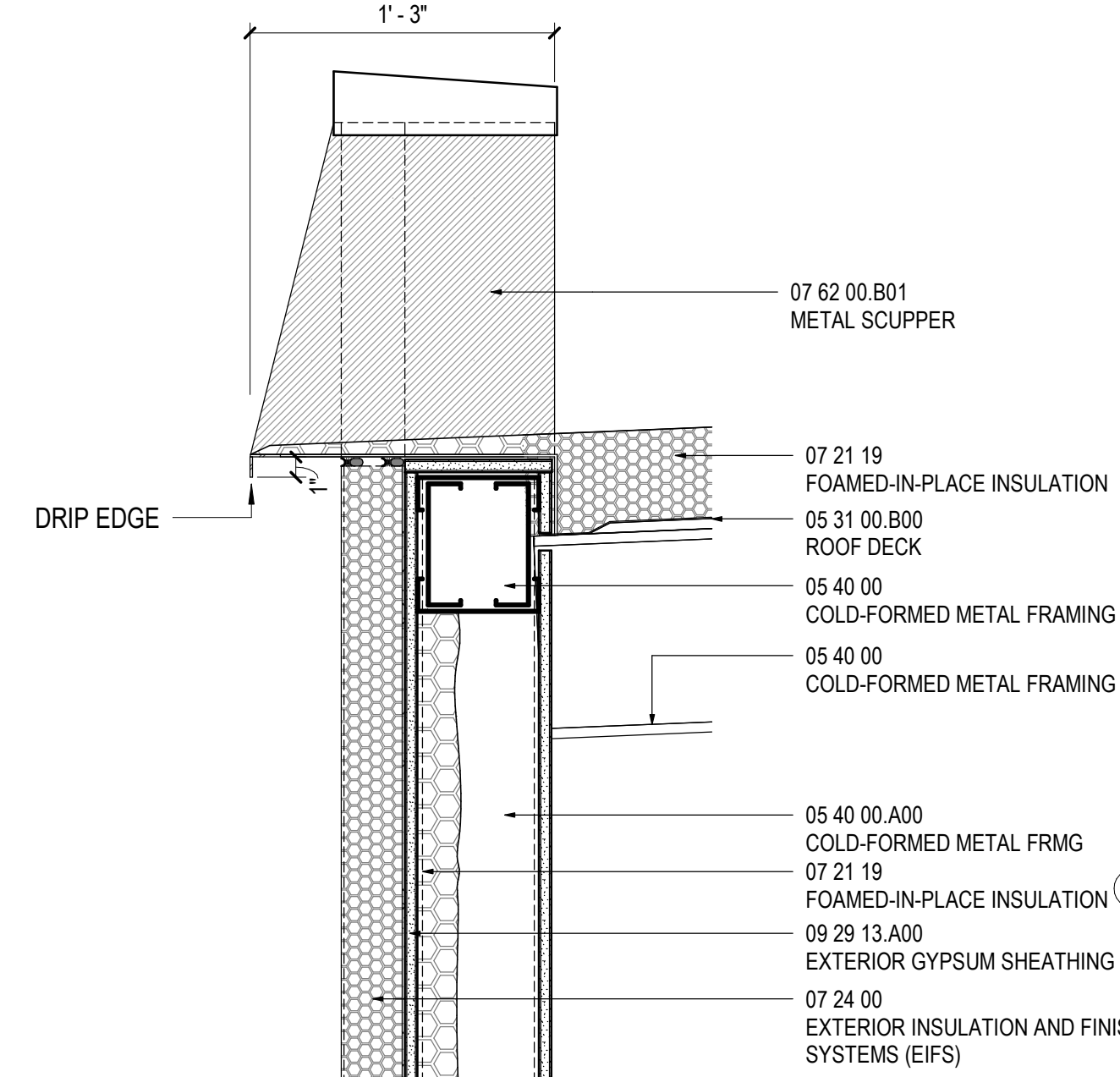
- 07 21 19 FOAMED-IN-PLACE INSULATION
- 07 17 00.B00 PROTECTION BOARD
- 06 40 23.B05 PLYWOOD
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 07 62 00 SHEET METAL FLASHING AND TRIM
- 07 92 00.A00 JOINT SEALANT
- 07 92 00.A00 JOINT SEALANT
- 06 10 53.D00 WOOD BLOCKING
- 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 05 40 00.A00 COLD-FORMED METAL FRMG

17 PARAPET DETAIL @ EXISTING CONDUITS
SCALE: 1 1/2" = 1'-0"



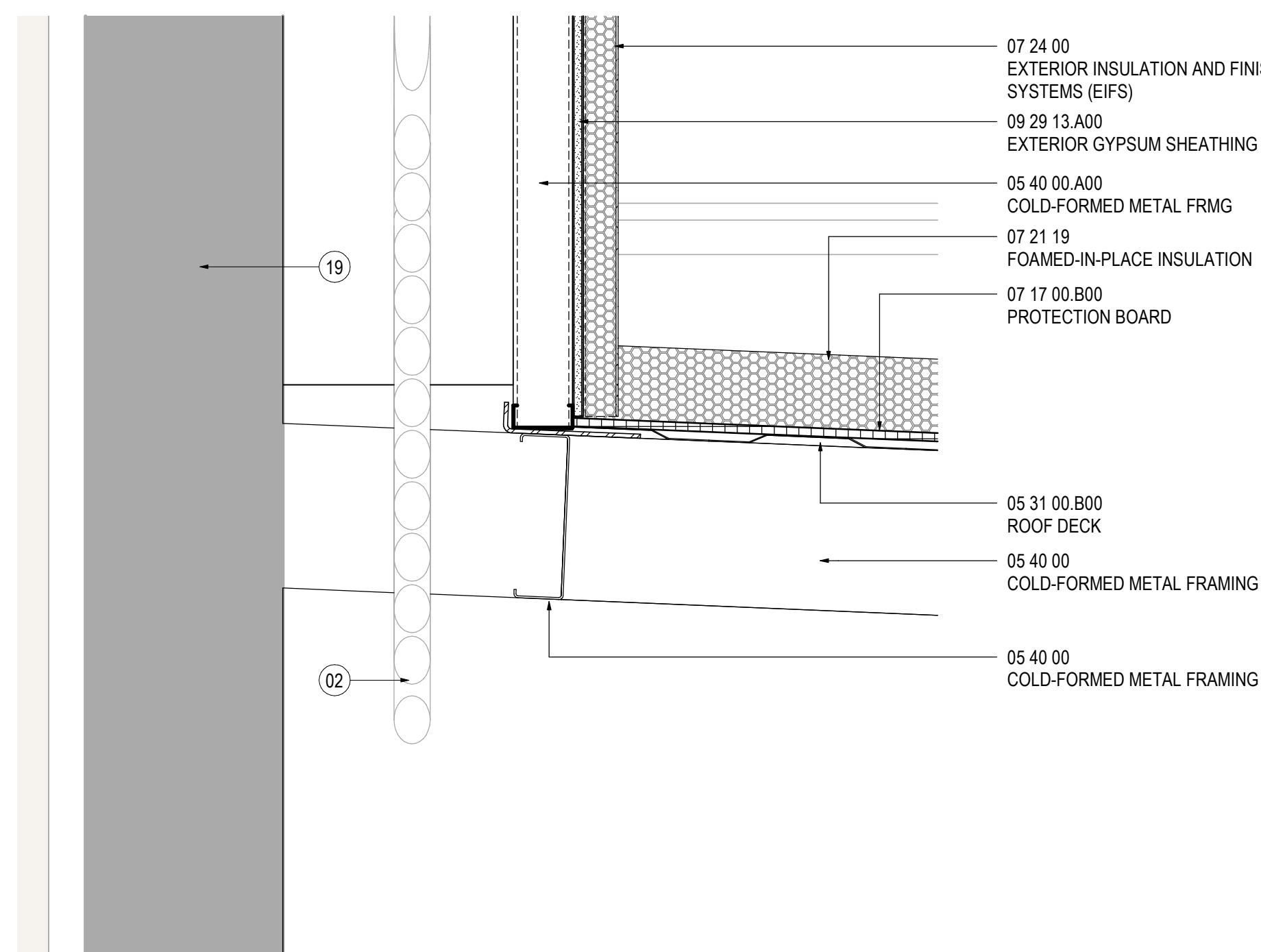
- 07 62 00.C05 COPING
- 07 92 00.A00 JOINT SEALANT
- 06 10 53.L00 FIRE-RETARDANT TREATED WOOD
- 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 07 21 19 FOAMED-IN-PLACE INSULATION (17)
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 09 29 00.B01 TYPE X GYP BD 5/8"
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 05 31 00.B00 ROOF DECK
- 07 21 19 FOAMED-IN-PLACE INSULATION

13 TYP. PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



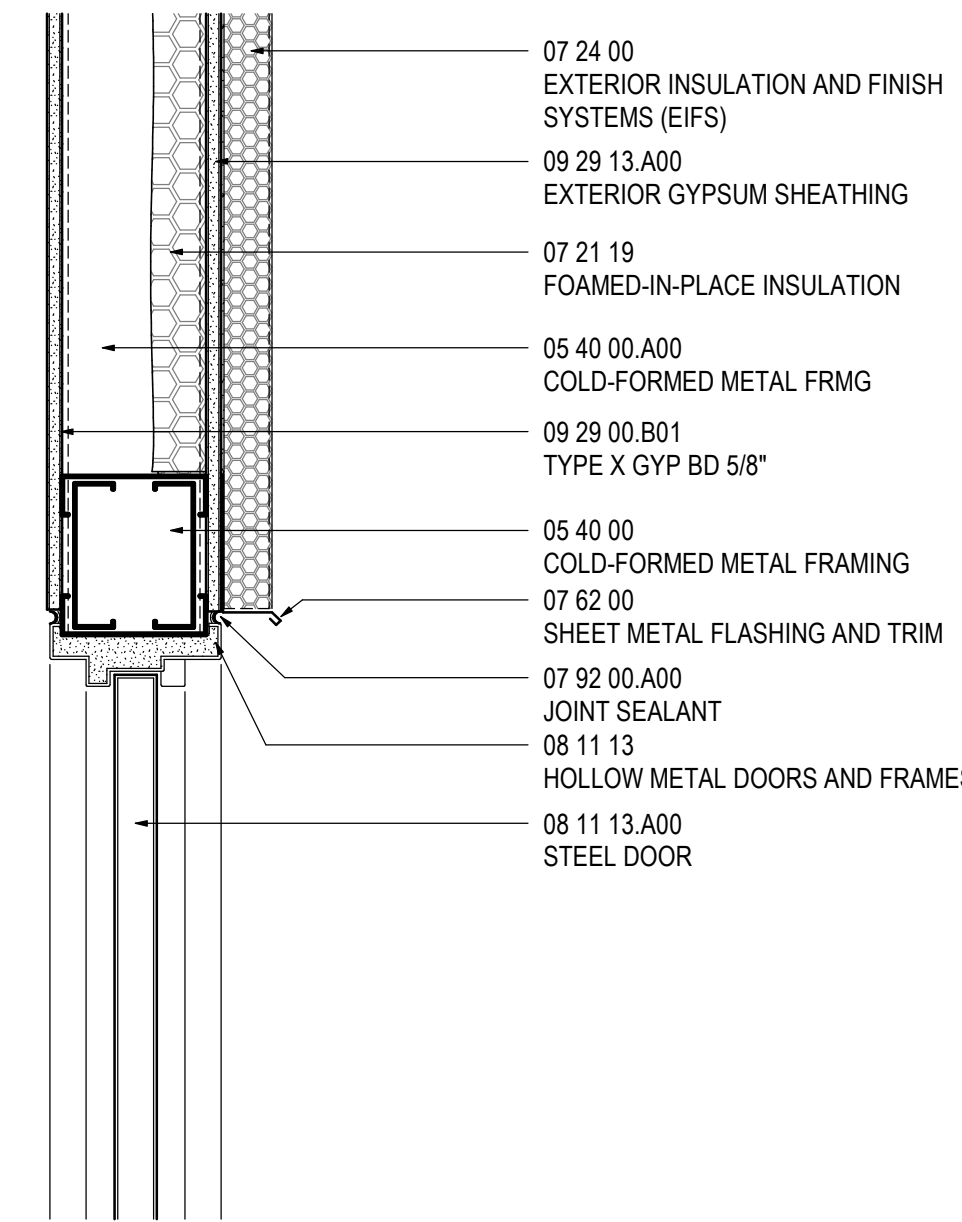
- 07 62 00.B01 METAL SCUPPER
- 07 21 19 FOAMED-IN-PLACE INSULATION
- 05 31 00.B00 ROOF DECK
- 05 40 00 COLD-FORMED METAL FRAMING
- 05 40 00 COLD-FORMED METAL FRAMING
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 07 21 19 FOAMED-IN-PLACE INSULATION (17)
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

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



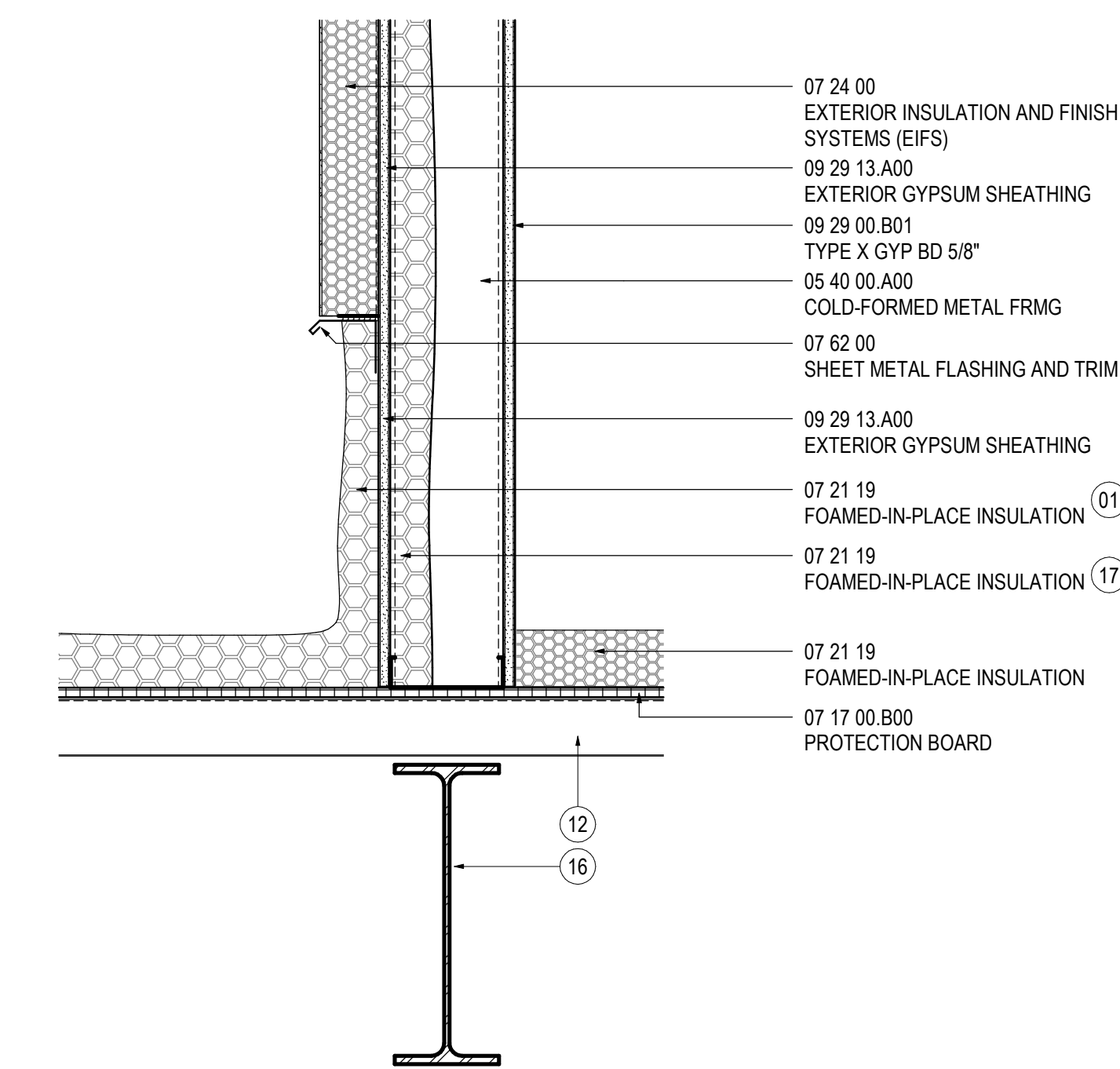
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- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 07 21 19 FOAMED-IN-PLACE INSULATION
- 07 17 00.B00 PROTECTION BOARD
- 05 31 00.B00 ROOF DECK
- 05 40 00 COLD-FORMED METAL FRAMING
- 05 40 00 COLD-FORMED METAL FRAMING

19 ROOF DETAIL @ EXISTING CONDUITS
SCALE: 1 1/2" = 1'-0"



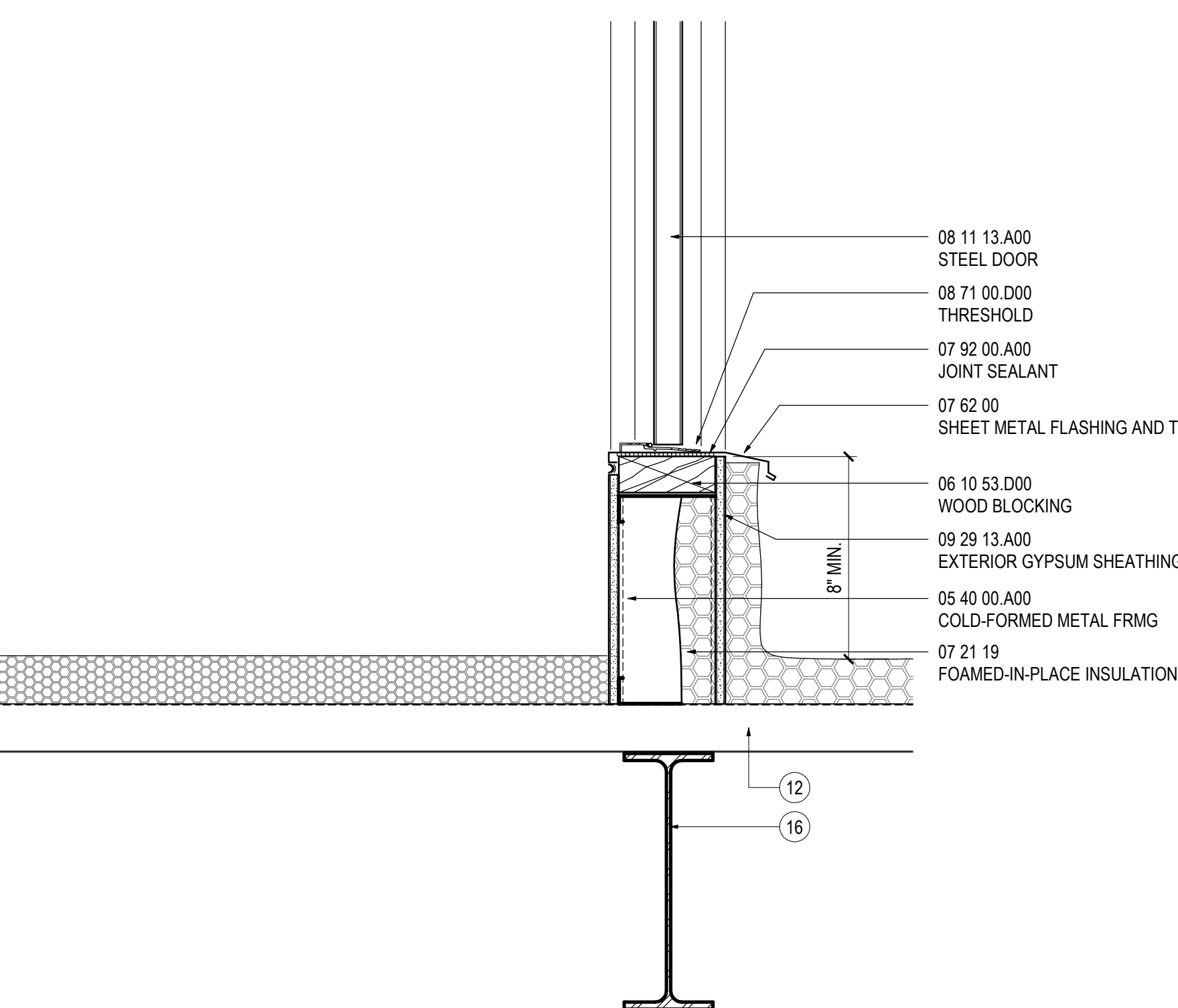
- 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 07 21 19 FOAMED-IN-PLACE INSULATION
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 09 29 00.B01 TYPE X GYP BD 5/8"
- 05 40 00 COLD-FORMED METAL FRAMING
- 07 62 00 SHEET METAL FLASHING AND TRIM
- 07 92 00.A00 JOINT SEALANT
- 08 11 13 HOLLOW METAL DOORS AND FRAMES
- 08 11 13.A00 STEEL DOOR

15 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



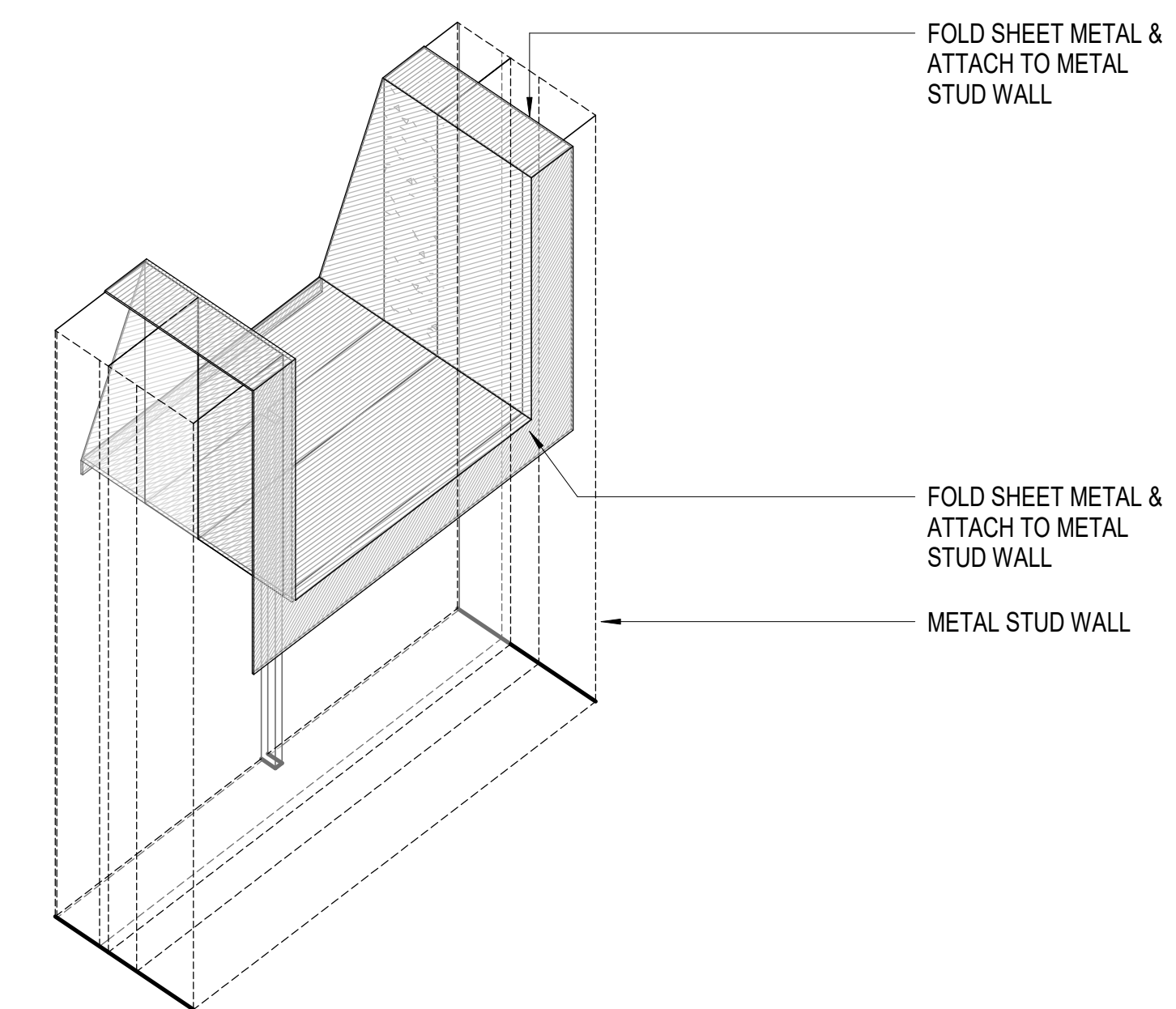
- 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 09 29 00.B01 TYPE X GYP BD 5/8"
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 07 62 00 SHEET METAL FLASHING AND TRIM
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 07 21 19 FOAMED-IN-PLACE INSULATION (01)
- 07 21 19 FOAMED-IN-PLACE INSULATION (17)
- 07 21 19 FOAMED-IN-PLACE INSULATION
- 07 17 00.B00 PROTECTION BOARD

06 TYP. DETAIL @ WALL BASE
SCALE: 1 1/2" = 1'-0"



- 08 11 13.A00 STEEL DOOR
- 08 71 00.D00 THRESHOLD
- 07 92 00.A00 JOINT SEALANT
- 07 62 00 SHEET METAL FLASHING AND TRIM
- 06 10 53.D00 WOOD BLOCKING
- 09 29 13.A00 EXTERIOR GYPSUM SHEATHING
- 05 40 00.A00 COLD-FORMED METAL FRMG
- 07 21 19 FOAMED-IN-PLACE INSULATION (17)

16 DOOR THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"



- FOLD SHEET METAL & ATTACH TO METAL STUD WALL
- FOLD SHEET METAL & ATTACH TO METAL STUD WALL
- METAL STUD WALL

08 3D VIEW SHEET METAL SCUPPER
SCALE:

SHEET NOTES

- 01 SPRAYFOAM BASE, SEE WALL SECTIONS & DETAILS
- 02 EXISTING ELECTRICAL CONDUITS
- 12 EXISTING ROOF DECK
- 16 EXISTING ROOF STRUCTURE
- 17 2" MIN. SPRAYFOAM IN WALL (BETWEEN VERTICAL METAL STUDS)
- 18 EXISTING PARAPET / CORNICE
- 19 EXISTING WALL

GENERAL NOTES

US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler
Patrick Magness
2575 E Camelback Rd
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Tel 602.523.4904
Fax 602.523.4949

Date	Description

KIVA # _____
SDEV # _____

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
CONDUIT ENCLOSURE / EXTERIOR ENVELOPE DETAILS

Scale
1 1/2" = 1'-0"

A6.00



01 VIEW OF IDF ROOM (LOOKING NORTH WEST)



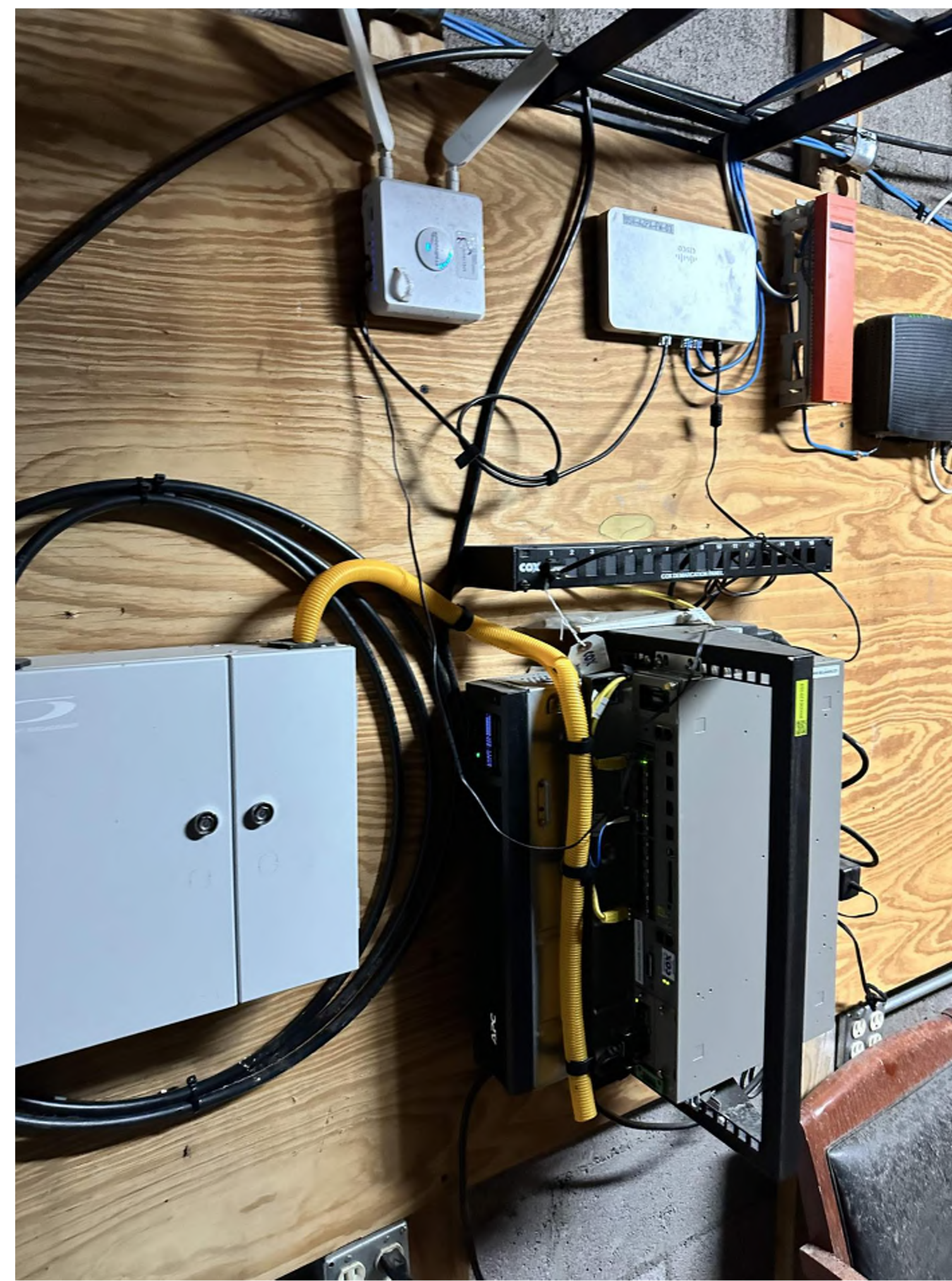
02 VIEW OF METAL SHELF FOR SERVER UNITS (LOOKING SOUTH EAST)



03 VIEW OF IDF ROOM - SOUTH WEST CORNER



04 VIEW OF IDF ROOM CEILING (LOOKING SOUTH)



05 VIEW OF IDF ROOM - SERVER CONNECTIONS



06 VIEW OF BLOCKED OFF DOOR AND VENTILATION (NORTH)



07 VIEW OF AC UNIT ABOVE DOOR (SOUTH)

US VETS
12027 N 28TH DRIVE
PHOENIX, AZ 85029

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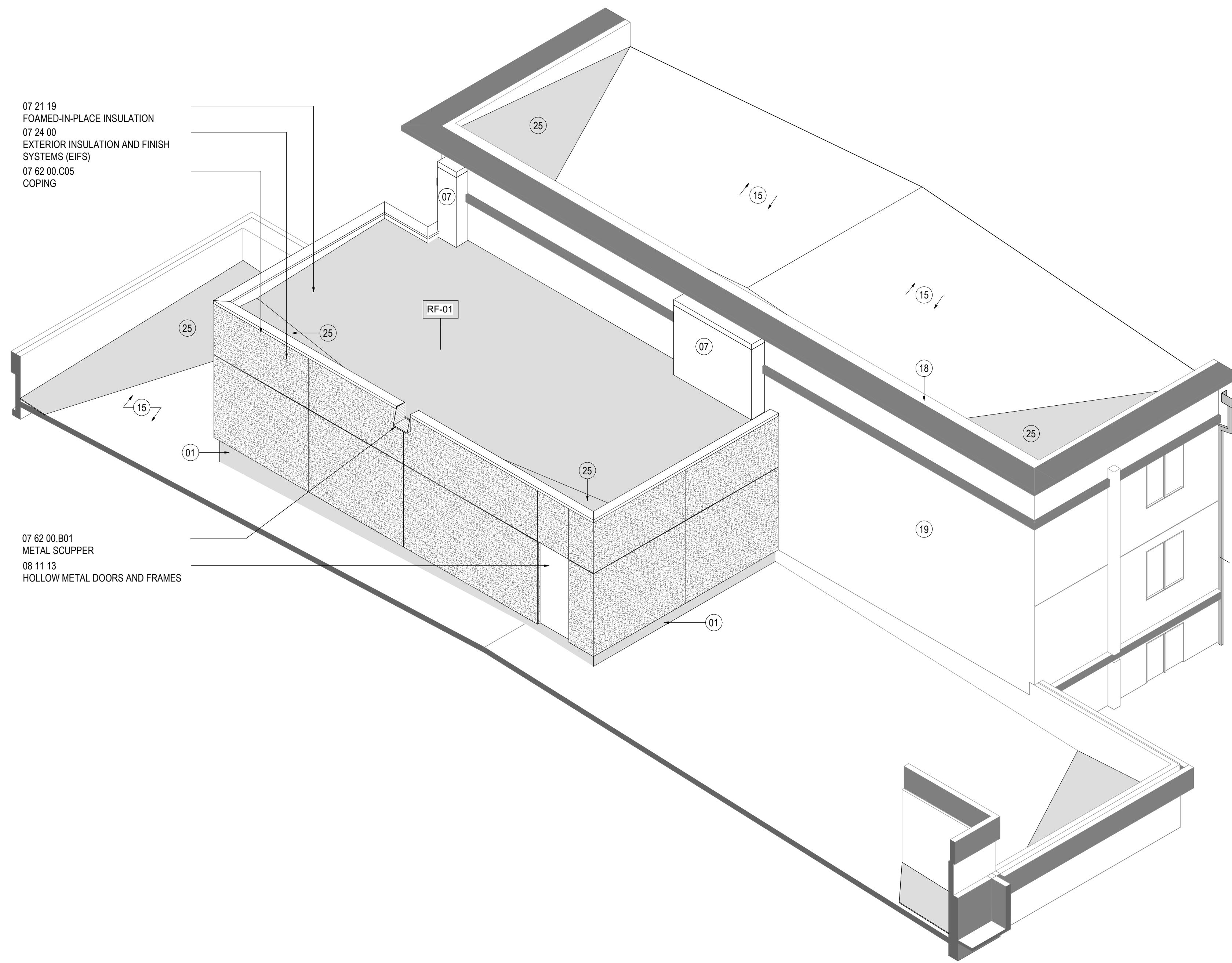
Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements
Project Number
057.8221.100
Description
IDF ROOM DETAILS

Scale

A6.02

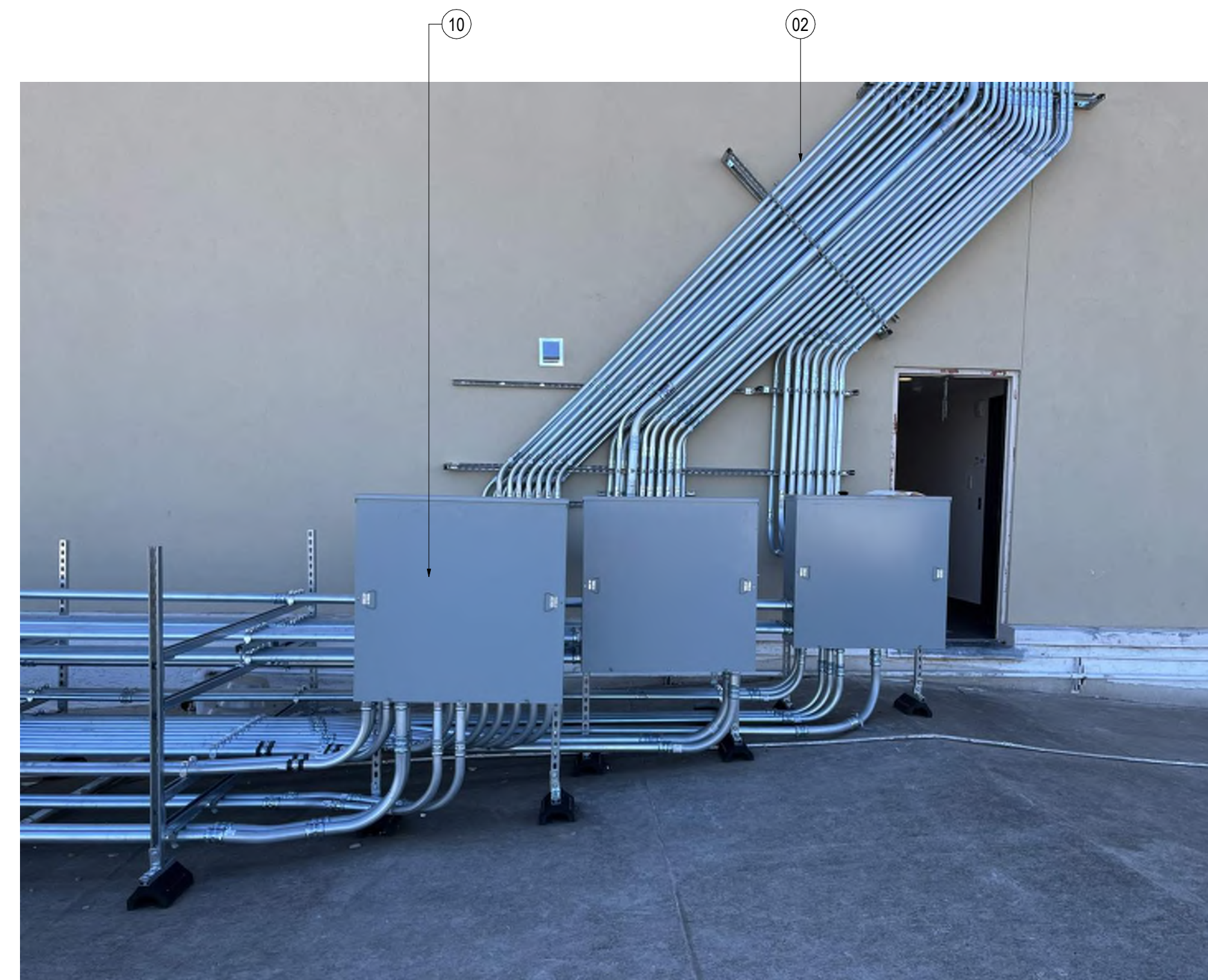


01 VIEW OF EXISTING CONDUITS (LOOKING WEST)



02 VIEW BETWEEN PULL BOXES AND EXTERIOR WALL

18 3D AXON_ CONDUIT ENCLOSURE



03 DETAILED VIEW OF EXISTING CONDUITS AND PULL BOXES



04 DETAILED VIEW OF EXISTING CONDUITS AND PULL BOXES



05 VIEW OF EXISTING CONDUITS AND PULL BOXES (LOOKING EAST)

SHEET NOTES

- 01 SPRAYFOAM BASE, SEE WALL SECTIONS & DETAILS
- 02 EXISTING ELECTRICAL CONDUITS
- 07 ENCLOSURE FOR CONDUITS ABOVE CEILING
- 10 EXISTING CONDUITS & PULL BOXES
- 15 NEW SPRAYFOAM ROOFING
- 18 EXISTING PARAPET / CORNICE
- 19 EXISTING WALL
- 25 ROOF CRICKET

US VETS

12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
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GENERAL NOTES

Date	Description

KIVA # _____
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Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
CONDUIT ENCLOSURE / 3D VIEWS

KEY PLAN

Scale

A10.00

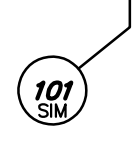
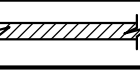
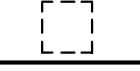

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE

SPECIAL INSPECTION:				
PER IBC CHAPTER 17, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS:				
STEEL:	CONTINUOUS	PERIODIC	REFERENCED STANDARD (NOTE1)	IBC REFERENCE
VERIFICATION AND INSPECTION				
1. Material verification of structural steel: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturers' certified mill test reports.	-	-	AISC 360, SEC. M2.5 ASTM A 6 OR ASTM A 569	
2. Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction documents. b. Manufacturer's certificate of compliance required.	-	-	AISC 360, SEC. A3.5	
3. Inspection of welding: a. Structural steel: 1) Complete and partial penetration groove welds. 2) Multipass fillet welds. 3) Single-pass fillet welds > 5/16" 4) Single-pass fillet welds = 5/16" 5) Floor and roof deck welds. b. Reinforcing steel: 1) Verification of weld ability of reinforcing steel other than ASTM A 706. 2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 3) Shear reinforcement. 4) Other reinforcing steel.	- X X X - - - - - - - - - - - - -	- - - - - - X - - - - X - -	AWS D1.1 AWS D1.1 AWS D1.1 AWS D1.1 AWS D1.3 AWS D1.4 AQ 318: 3.5.2	
4. Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening. b. Member locations. c. Application of joint details at each connection.	-	X		
NOTES: 1. WHERE APPLICABLE SEE ALSO SECTION 1701.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE. 2. TABLES TAKEN DIRECTLY FROM IBC FOR REFERENCE.				
EXPANSION, SCREW, AND EPOXY BOLTS: 1. During placement of all expansion, screw, & epoxy bolts, for visual verification of hole diameter and depth and placement of bolt and/or epoxy.	-	X		
DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: A) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION. B) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER. C) UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.				

INTERPRETATION OF DRAWINGS

LOCATION OF INFORMATION		
ITEM	INFORMATION	LOCATION
FRAMING MEMBERS	SIZE, TYPE, AND CONNECTION	SEE PLANS/DETAILS

PLAN LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	DETAIL CUTS SHOWN ON PLANS	TYPICAL DETAILS ARE TWO DIGIT SERIES NUMBERS FOUNDATION DETAILS ARE 100 SERIES DETAILS FRAMING DETAILS ARE 200 SERIES NUMBERS
	8" MASONRY WALL	SEE PLANS & SCHEDULES FOR REINFORCINGS
	MECHANICAL EQUIPMENT	SEE PLANS FOR UNIT WEIGHTS
	OPENING IN FRAMING	

ABBREVIATIONS	
A.B.C.	AGGREGATE BASE COURSE
ABV.	ABOVE
A/C	AIR CONDITIONER
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
A.B.	ANCHOR BOLT
⊙	AT (MEASUREMENT)
A.O.	AS OCCURS
BM	BEAM
B.F.F.	BELOW FINISHED FLOOR
B.O.B.	BOTTOM OF BEAM
B.O.D.	BOTTOM OF DECK
B.O.F.	BOTTOM OF FOOTING
BRG	BEARING
C.I.P.	CAST IN PLACE
C.L.	CENTERLINE
C.L.B.	CENTERLINE OF BEAM
C.L.C.	CENTERLINE OF COLUMN
C.L.F.	CENTERLINE OF FOOTING
C.L.W.	CENTERLINE OF WALL
CLR	CLEAR
CONC	CONCRETE
CONC C.J.	CONCRETE CONTROL JOINT
CONC S.J.	CONCRETE SAWCUT JOINT
C.M.U.	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
D.L.	DEAD LOAD
Ø OR DIA.	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
E.O.S.	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EXP. BOLT	EXPANSION BOLT
EXP. JT (E.J.)	EXPANSION JOINT
E.W.	EACH WAY
F.F.	FINISHED FLOOR
F.O.M.	FACE OF MEMBER
F.O.S.	FACE OF STEEL
F.O.W.	FACE OF WALL
GA	GAGE
GALV	GALVANIZED
G.S.N.	GENERAL STRUCTURAL NOTES
GLB (GLULAM)	GLUED-LAMINATED BEAM
I.F.W.	INSIDE FACE OF WALL
HORIZ	HORIZONTAL
K(KIP)	1000 POUNDS
L.L.	LIVE LOAD
LBS (#)	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MFR(S)	MANUFACTURER(S)
MAS C.J.	MASONRY CONTROL JOINT
MECH'L	MECHANICAL
N/A	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.W.	OUTSIDE FACE OF WALL
OPP	OPPOSITE
P.C.	PRECAST CONCRETE
P.J.	PANEL JOINT
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCING
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SIM	SIMILAR
SQ.	SQUARE
STD	STANDARD
STL	STEEL
T.L.	TOTAL LOAD
T.O.B.	TOP OF BEAM
T.O.D.	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.L.	TOP OF LEDGER
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PLATE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TY	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

US VETS

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△ Date	Description

Seal / Signature



Project Name

US Vets - 12027 N 28th Drive,
Phoenix AZ 85029

Project Number

057.8221.100

Description

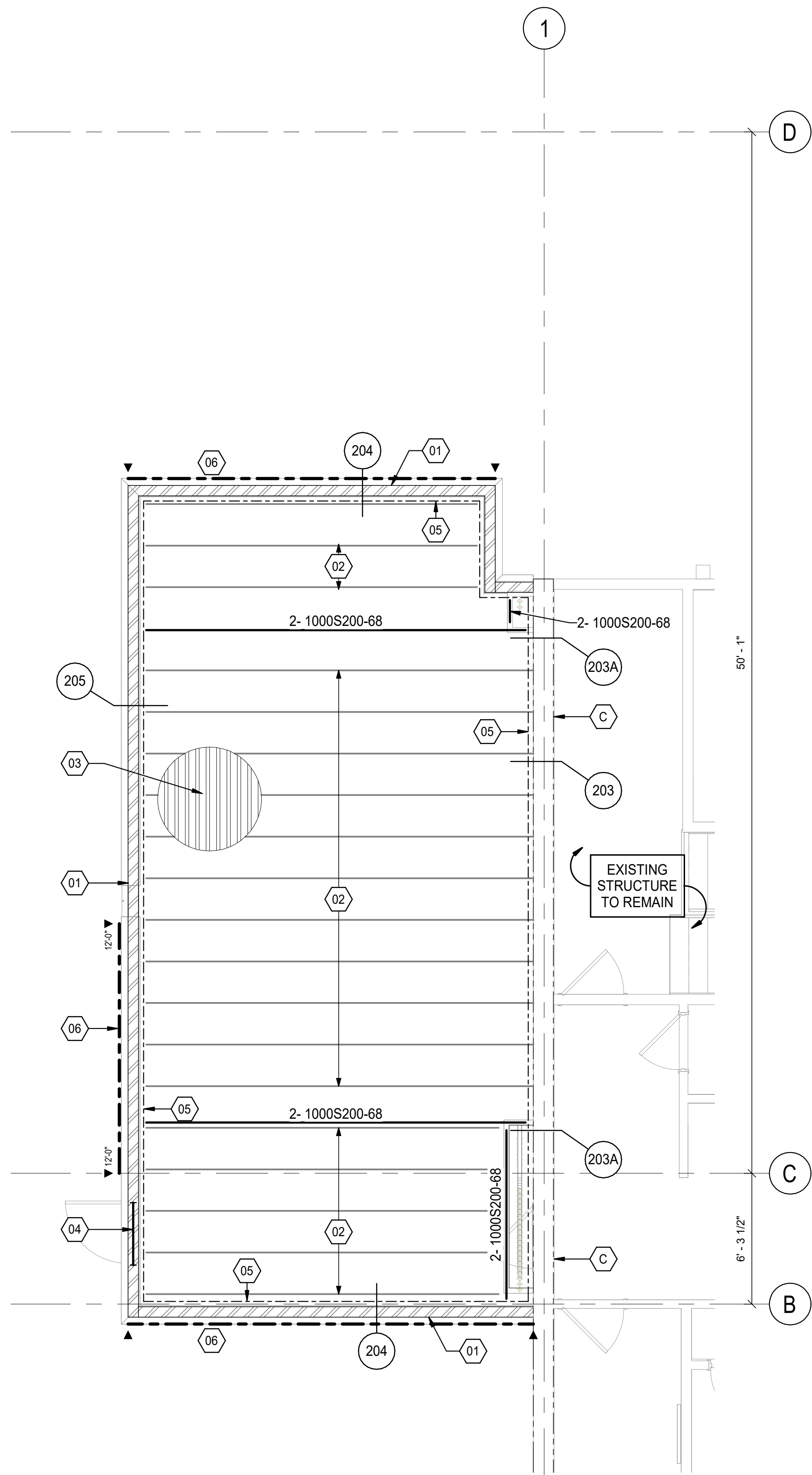
GENERAL STRUCTURAL NOTES

Scale

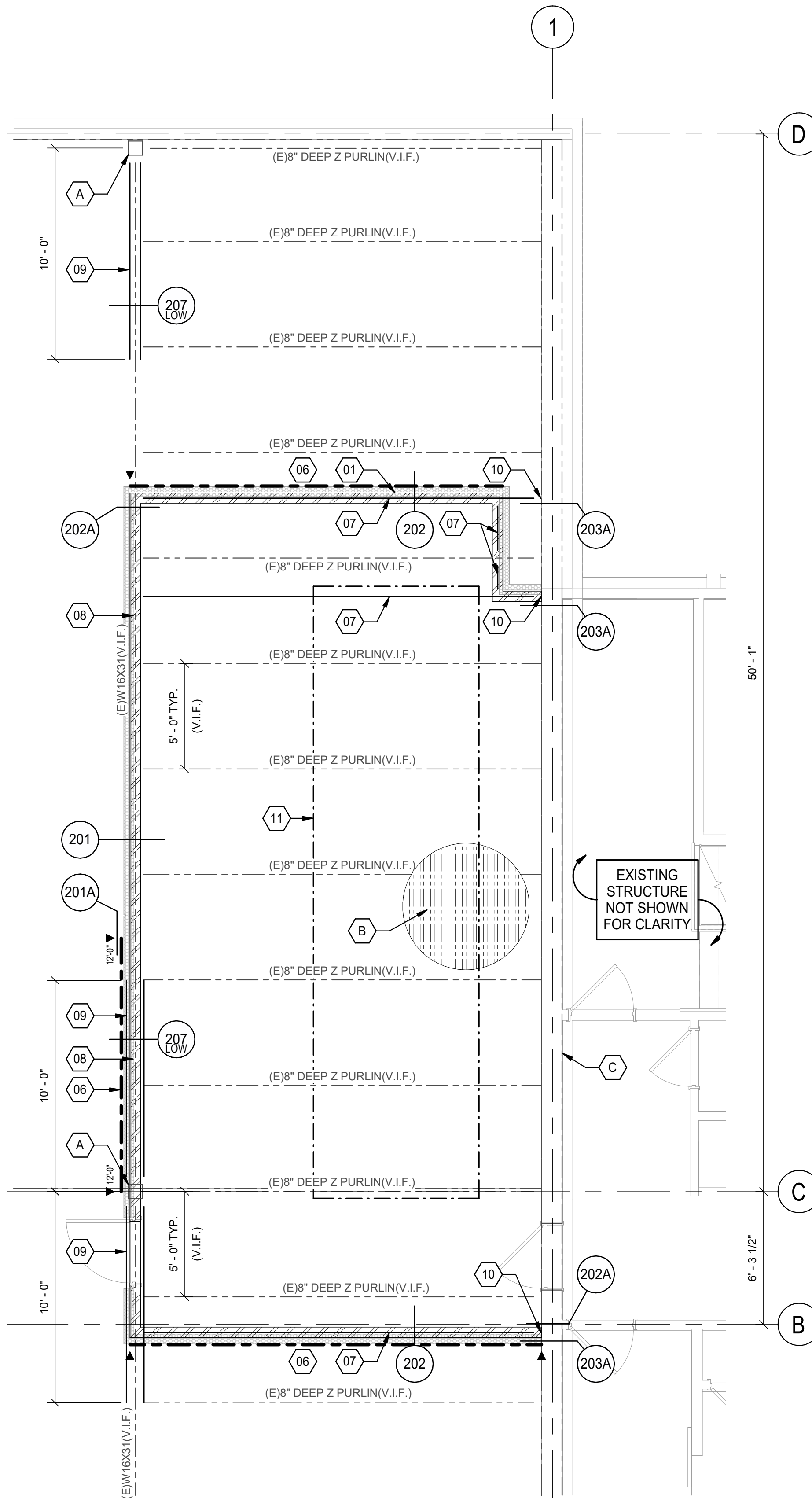
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2 NEW CONDUIT ENCLOSURE ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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

ROOF FRAMING NOTES

- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. ROOF ELEVATIONS, WHERE SHOWN, ARE TO BE PROVIDED AND VERIFIED BY THE ARCHITECT.
- SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

EXISTING ROOF FRAMING KEYNOTES

- A EXISTING COLUMN - GENERAL CONTRACTOR TO VERIFY SIZE IN FIELD.
- B EXISTING 1 1/2" ROOF DECK - GENERAL CONTRACTOR TO VERIFY IN FIELD.
- C EXISTING MASONRY WALL.

NEW ROOF FRAMING KEYNOTES

- 01 NEW 600S200-68 EXTERIOR STEEL WALL STUDS AT 16" O.C. MAX.
- 02 NEW 1000S200-68 COLD-FORMED STEEL JOISTS AT 24" O.C. MAX. PROVIDE BLOCKING MID-SPAN PER TYPICAL DETAIL 206.
- 03 NEW 1 1/2"x20 GA STEEL DECK, ATTACH PER GSN.
- 04 COLD-FORMED HEADER AND JAMBS PER TYPICAL DETAIL.
- 05 NEW 10" DEEP x14 GA MIN. CONTINUOUS TRACK.
- 06 5/8" GYPBOARD ONE SIDE OF WALL WITH #12 TEK SCREWS AT 4" O.C. PROVIDE BLOCKING PER GSN. 3- 600S200-68 STEEL JAMB STUDS AT EACH END WITH STEEL HOLDOWN ATTACHMENTS TO NEW BOX HEADER BELOW.
- 07 NEW 3- 800S200-68 STEELBOX BEAM BELOW DECK AT BASE OF WALL SUPPORTING STEEL STUD WALL ABOVE. SPANNING FULL LENGTH OF WALL.
- 08 NEW 3- 800S200-54 STEEL BOX BEAM ABOVE THE EXISTING BEAM AND BELOW EXISTING DECK. BOX BEAM TO SPAN IN BETWEEN EXISTING Z PURLIN BEARING LOCATIONS TO SUPPORT WALL ABOVE - TYPICAL.
- 09 NEW L3x2x1/2 (LLV) EXISTING MEMBER REINFORCEMENT EACH SIDE OF WEB FOR LENGTH SHOWN ON PLAN. INSTALLED ABOVE THE BOTTOM FLANGE AND WELDED TO EXISTING MEMBER.
- 10 NEW 14 GA MINIMUM COLD-FORMED DOUBLE ANGLE CLIP CONNECTION AT MASONRY WALL. ATTACH TO WALL WITH 3/4"x2 POST-INSTALLED HILTI SCREW ANCHORS INTO GROUTED MASONRY CELLS.
- 11 EXTENT OF NEW MEP CONDUIT ON EXISTING ROOF - COORDINATE EXACT EXTENTS WITH MEP AND ARCHITECTURAL DRAWINGS.

NOTE:
GENERAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY E.O.R. OF DISCREPANCIES OR CONFLICTS NOT SHOWN ON PLAN.

*SIZES SHOWN ARE APPROXIMATIONS FROM VISUAL INSPECTION.

NOTE:
GENERAL CONTRACTOR TO COORDINATE NEW STEEL STUD WALL PLACEMENT IN FIELD WITH E.O.R. / ARCHITECT. WALLS ARE TO BE LOCATED DIRECTLY ABOVE EXISTING STEEL MEMBERS WHERE SHOWN ON PLANS.

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Date	Description

Seal / Signature



Project Name
**US Vets - 12027 N 28th Drive,
Phoenix AZ 85029**

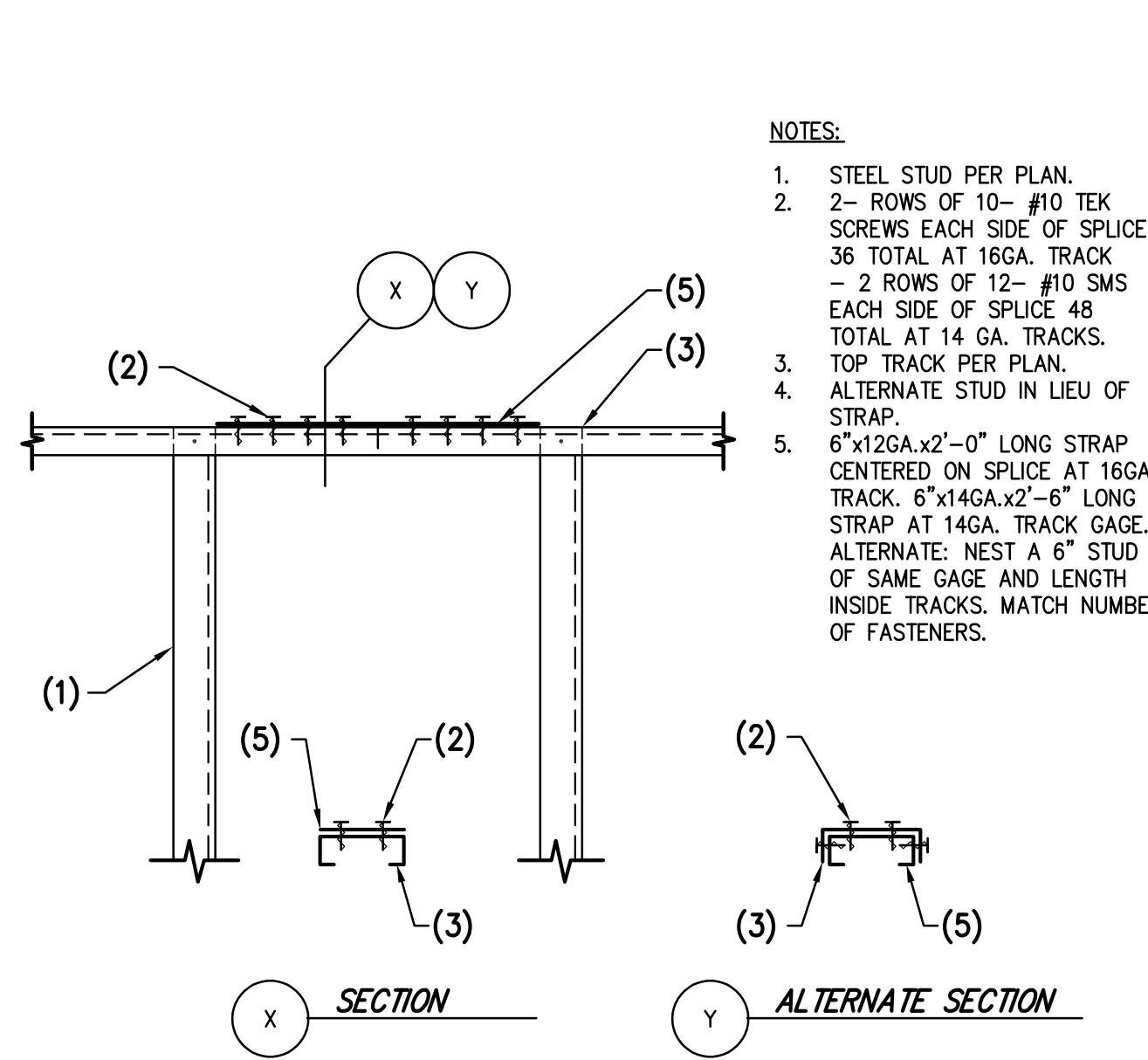
Project Number
057.8221.100

Description
STRUCTURAL FRAMING PLANS

Scale
1/4" = 1'-0"

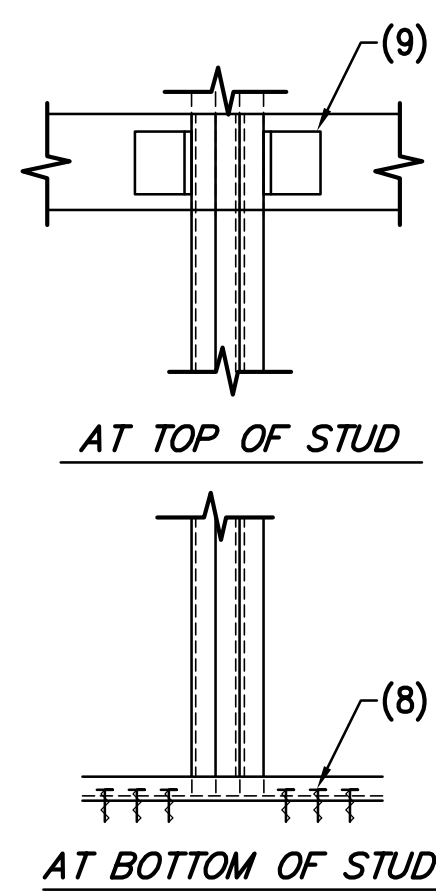
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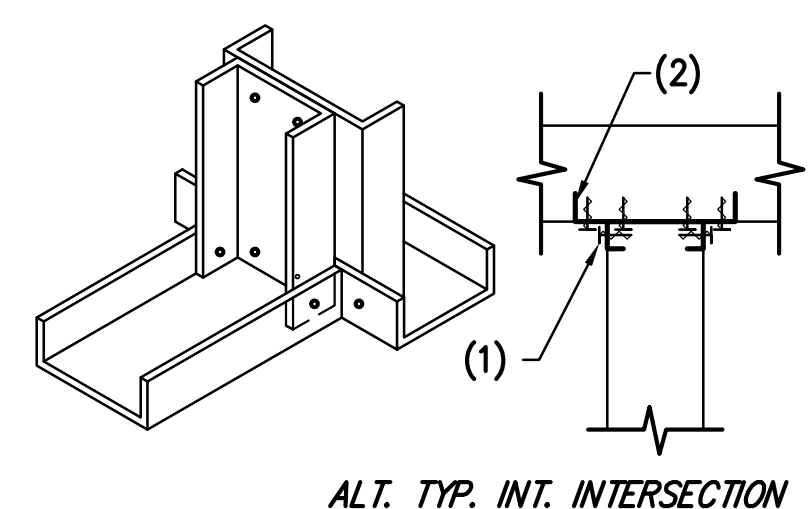
SS06 TOP TRACK DRAG SPLICE NO SCALE

- NOTES:**
1. STEEL STUD PER PLAN.
 - 2- ROWS OF 10- #10 TEK SCREWS EACH SIDE OF SPLICE 36 TOTAL AT 16GA. TRACK - 2 ROWS OF 12- #10 SMS EACH SIDE OF SPLICE 48 TOTAL AT 14 GA. TRACKS.
 3. TOP TRACK PER PLAN.
 4. ALTERNATE STUD IN LIEU OF STRAP.
 5. 6"x12GA.x2'-0" LONG STRAP CENTERED ON SPLICE AT 16GA. TRACK. 6"x14GA.x2'-6" LONG STRAP AT 14GA. TRACK GAGE. ALTERNATE: NEST A 6" STUD OF SAME GAGE AND LENGTH INSIDE TRACKS. MATCH NUMBER OF FASTENERS.

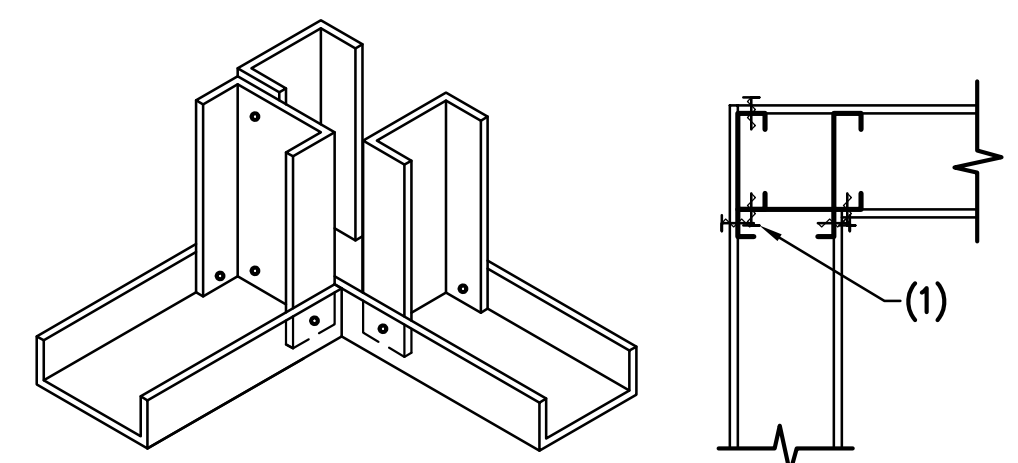


SS07 TYP. STUD WALL AT INTERSECTIONS (FOR BEARING WALLS) NO SCALE

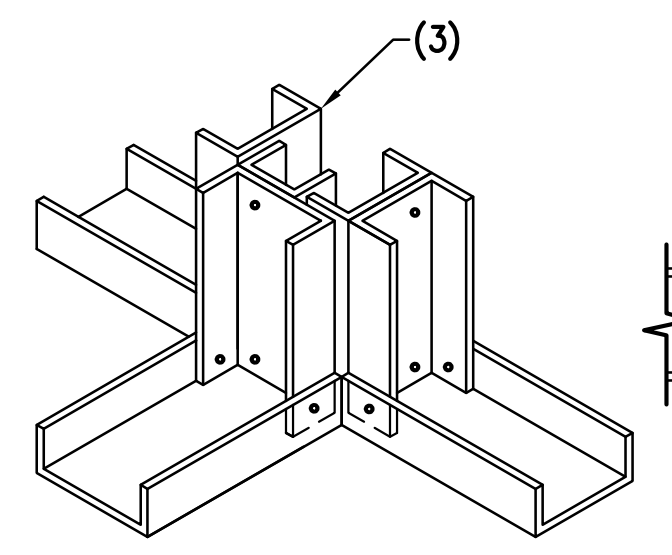
- NOTES:**
1. #10 TEK SCREWS - TYP.
 2. 10"x16GA.x1 1/2" FLANGE TRACK.
 3. ALT. THIS STUD MAY BE PLACED BACK TO BACK WITH PERPENDICULAR STUD.



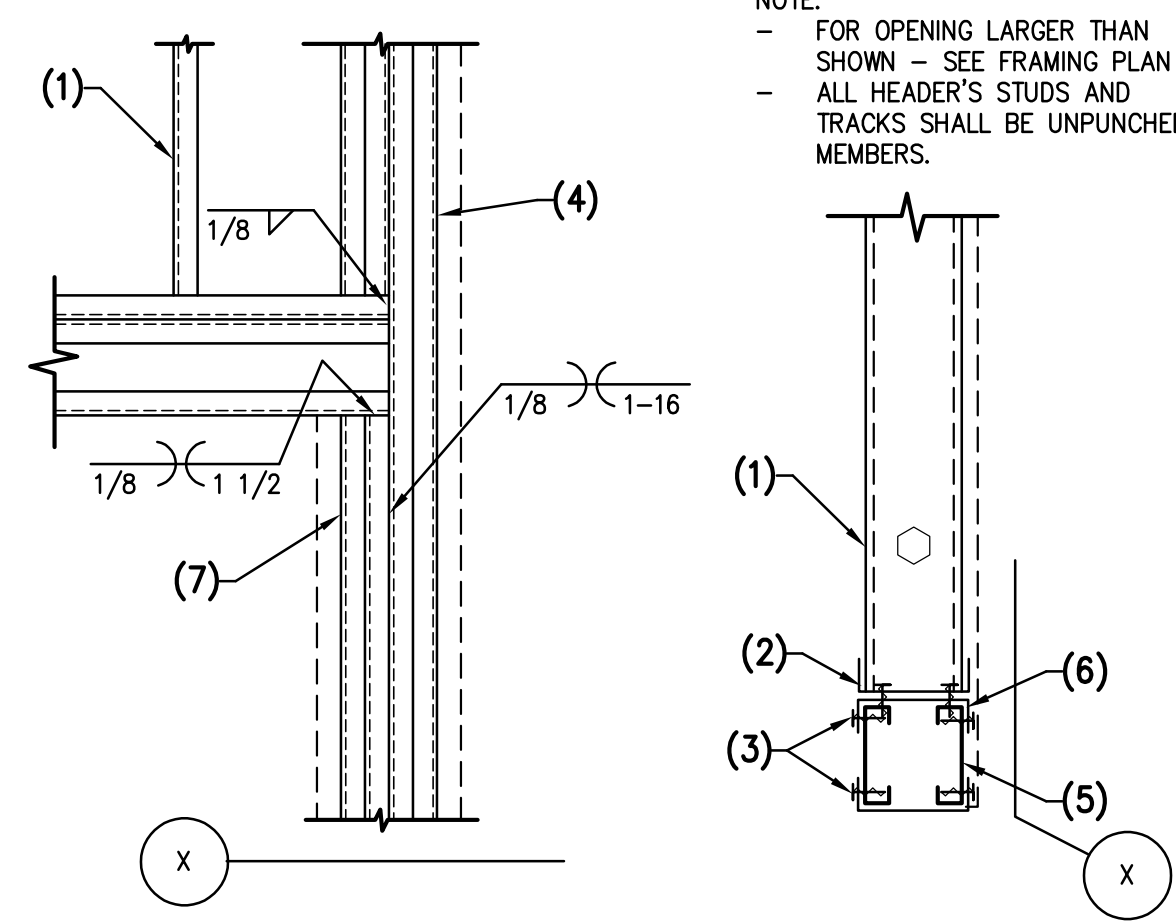
SS08 ALT. TYP. INT. INTERSECTION



SS09 TYPICAL INT. INTERSECTION



SS10 TYPICAL INT. CORNER



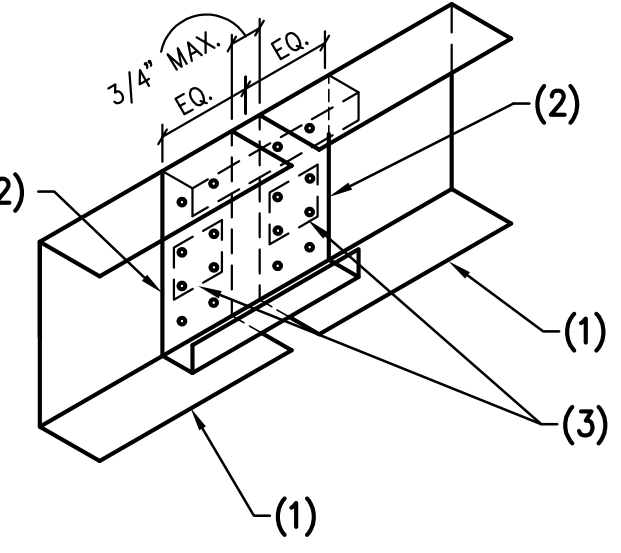
SS03 TYPICAL STUD TO TRACK CONNECTION NO SCALE

- NOTE:**
- FOR OPENING LARGER THAN SHOWN - SEE FRAMING PLAN
 - ALL HEADER'S STUDS AND TRACKS SHALL BE UNPUNCHED MEMBERS.

OPENING	EXTERIOR WALLS		INTERIOR WALLS	
	HEADER SIZE (6" WALL)	JAMB STUDS (6" WALL)	HEADER SIZE (6" WALL)	JAMB STUDS (6" WALL)
0" - 4'-0"	2- 600S200-54 2- 600T162-68 TRACKS	2- 600S162-54	2- 600S200-54 2- 600T162-68 TRACKS	2- 600S162-43
4'-1" - 6'-0"	2- 800S200-68 2- 600T200-68 TRACKS	2- 600S200-54	2- 800S200-68 2- 600T200-68 TRACKS	2- 600S162-54
6'-1" - 8'-0"	2- 1000S200-97 2- 600T200-97 TRACKS	2- 600S200-68	2- 1000S200-97 2- 600T200-97 TRACKS	2- 600S200-54
8'-1" - 10'-0"	3- 1000S200-97 2- 600T200-97 TRACKS	2- 600S200-68	3- 1000S200-97 2- 600T200-97 TRACKS	2- 600S200-54
10'-1" - 12'-0"	3- 1200S200-97 2- 600T200-97 TRACKS	2- 600S200-68	3- 1200S200-97 2- 600T200-97 TRACKS	2- 600S200-54

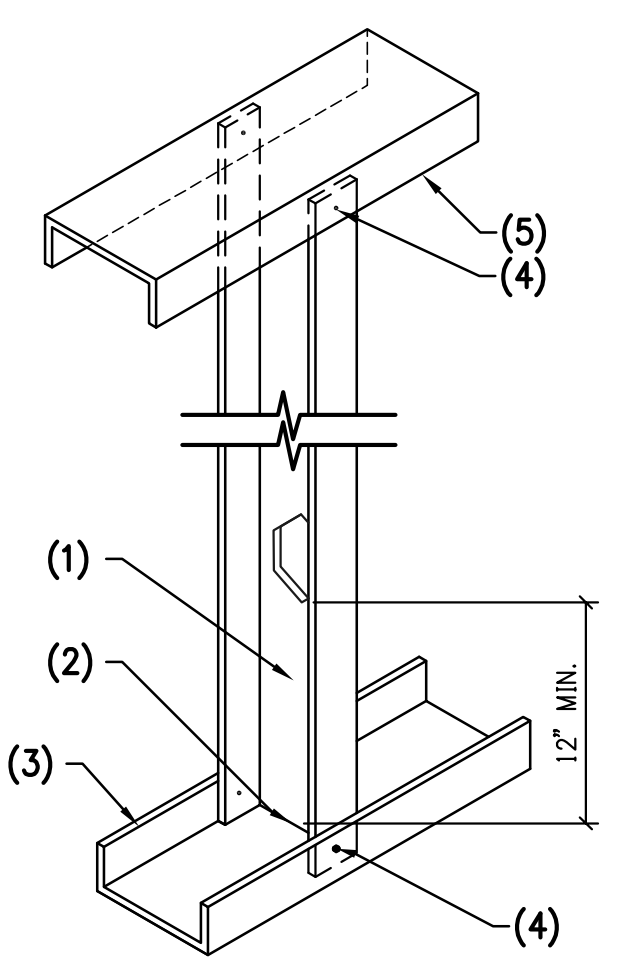
SS04 HEADER IN BEARING STEEL STUD WALL NO SCALE

- NOTES:**
1. STEEL RIM JOIST.
 2. 6" LONG STEEL JOIST.
 3. (8)-#10 TEK SCREWS EACH SIDE OF SPLICE.



SS05 TYPICAL JOIST RIM SPLICE NO SCALE

- NOTES:**
1. STEEL STUD WALL.
 2. CONT. 16 GAGE TRACK W/ 2- #12 TEK SCREWS AT 12" O.C. STAGGERED THROUGH TRACKS TO STUDS BELOW.
 3. #12 TEK SCREWS AT 12" O.C., EACH LEG OF TRACK.
 4. 2 (FULL HEIGHT) JAMB STUDS MIN. REFER TO SCHEDULE BELOW FOR ADDITIONAL STUDS WHERE REQUIRED.
 5. STEEL HEADER PER SCHEDULE.
 6. CONT. STEEL TRACK - TOP AND BOTTOM. REFER TO SCHEDULE FOR HEAVIER GAGE WHERE REQUIRED.
 7. DOUBLE TRIMMER STUD, 16 GAGE MIN. (ADD ONE ADDITIONAL STUDS AT EVERY 4'-0" OPENING. INCREASE AFTER 6'-0" WIDE).
 8. TYPICAL PINS OR SCREWS AT 2" O.C. EACH SIDE FOR EVERY STUD IN THE GROUP.
 9. TYPICAL CLIP ANGLE, ONE FOR EVERY TWO STUDS.

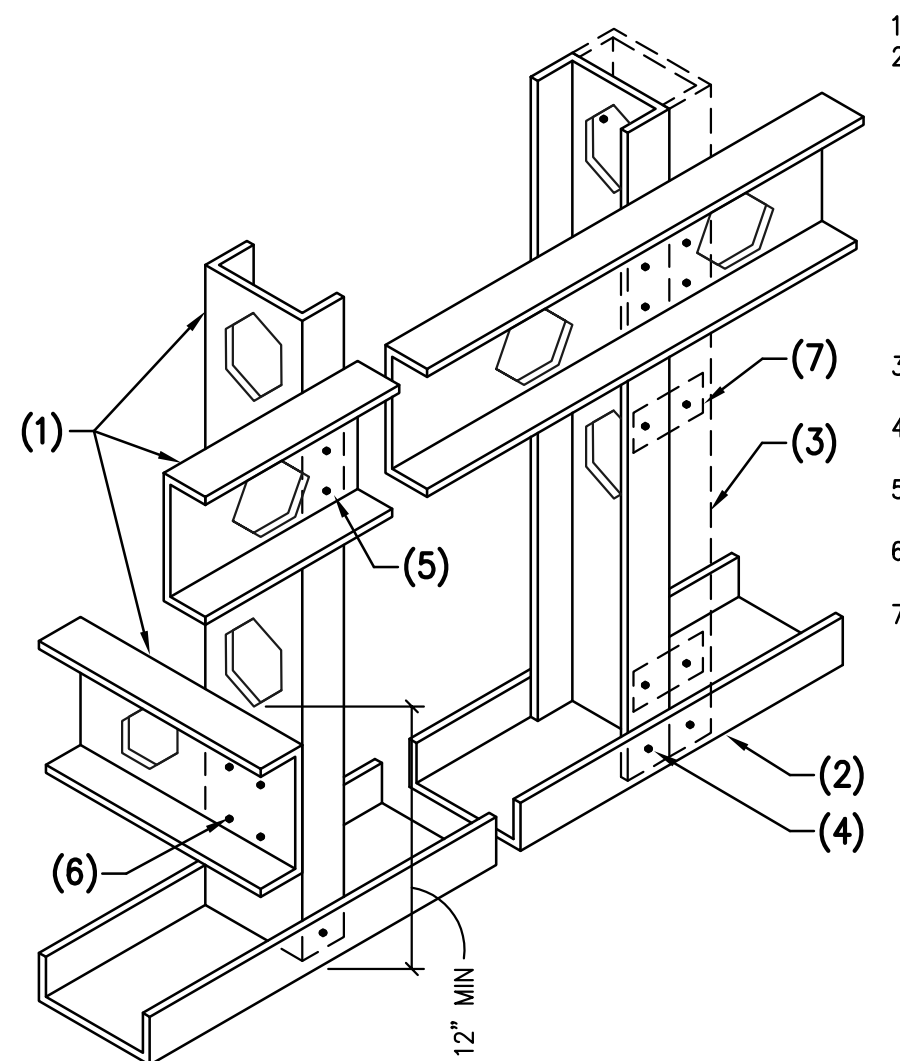


SS01 TYPICAL STEEL STUD WALL - SCREW CONNECTION NO SCALE

- NOTES:**
1. NO PUNCHOUT SHALL OCCUR WITHIN 12" FROM END OF STUDS (EDGE OF PUNCHOUT). STUDS MUST BE FULLY SEATED AGAINST TRACK (1/8" MAX. GAP BETWEEN BOTTOM OF STUD AND TRACK).
 3. 16 GAGE TOP TRACK WITH 1 1/2" WIDE FLANGES. FOR PENETRATION IN TRACK SEE DETAIL 59.
 4. #10 TEK SCREW ATTACHMENT EACH SIDE.
 5. 16 GAGE BOTTOM TRACK WITH 2" FLANGE WIDTH.

NOTE:
THIS DETAIL APPLIES TO TOP AND BOTTOM TRACK OF ALL STRUCTURAL STUDS.

- NOTES:**
1. STEEL STUD.
 2. UNPUNCHED STEEL STUD TRACK - ATTACHMENT REQUIRED 1 HILT 3/4" LONG X-U TYPE POWDER DRIVEN PINS @ 8" O.C. (I.C.C. #ERS-1663) OR APPROVED EQUAL FOR ALL STUDS 6" OR SMALLER. FOR 8" STUDS USE 2 PINS AT 8" O.C. - TYP. U.N.O.
 3. MULTIPLE STUDS WHERE SHOWN ON PLAN OR DETAILS. #10 X 3/4" LONG TEKS SCREWS EACH SIDE.
 4. 2 #10 X 3/4" LONG TEKS SCREWS.
 5. 4 #10 X 3/4" LONG TEKS SCREWS.
 7. 2"x20 GAGE FLAT STRAP BOTH SIDES AT 24" O.C. W/ 1 #10 SCREW AT EACH VERTICAL STUD.



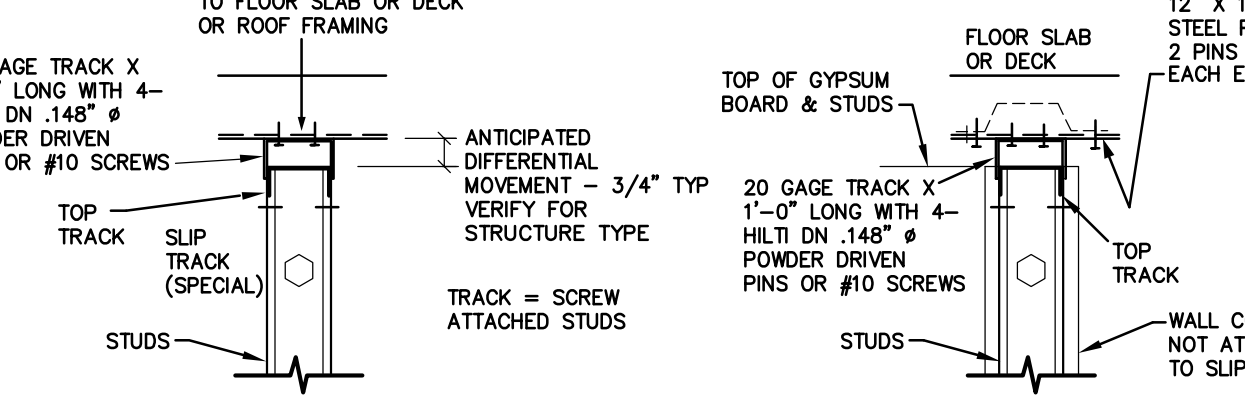
SS02 NON BEARING CEILING HEIGHT INTERIOR PARTITION BRACING TO FLOOR/ROOF NO SCALE

GENERAL STRUCTURAL NOTES

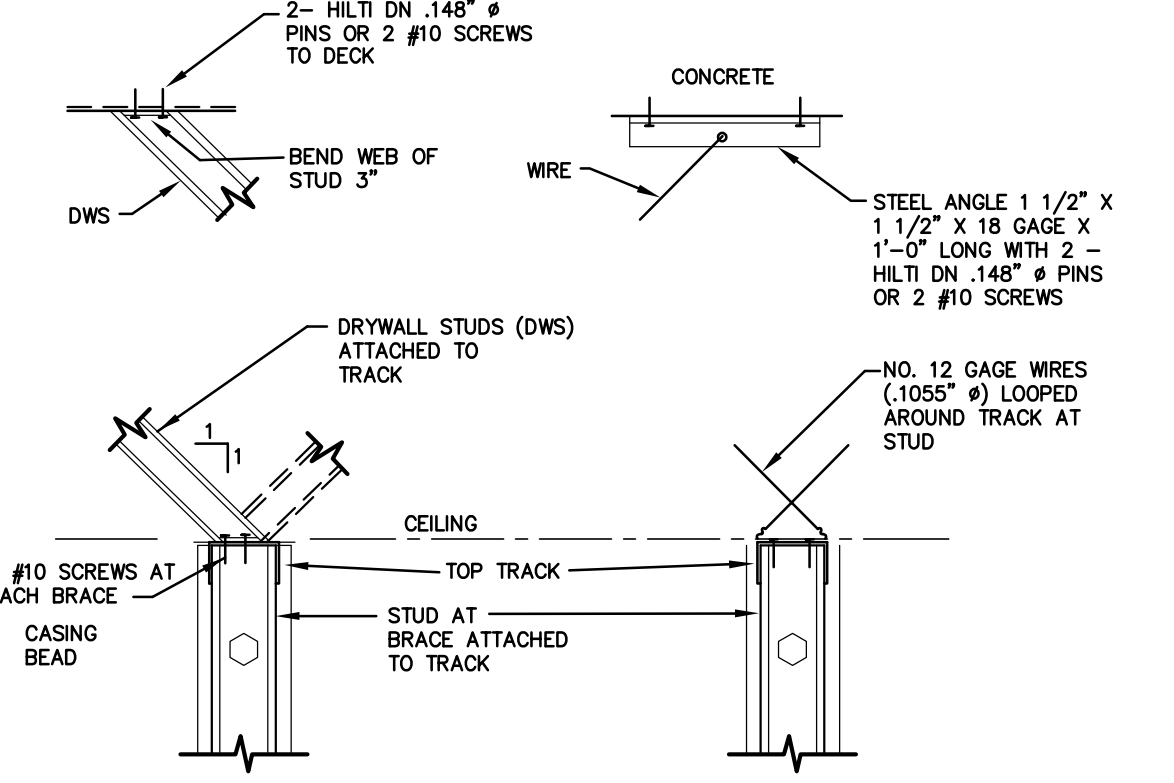
APPLY UNLESS NOTED OTHERWISE
COLD FORMED STRUCTURAL STEEL FRAMING (I.C.B.O. #2274)
ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.
STEEL FOR ALL STUDS AND FOR ALL GAGES OF TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.
ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.

STUD SIZE	ALLOWABLE WALL HEIGHTS FOR FULL HEIGHT INTERIOR WALL PARTITIONS		MINIMUM STUD PROPERTIES		BRACING SPACING WHERE OCCURS
	16" O.C.	24" O.C.	Sx(In3)	Ixx(In4)	
3 5/8" X 18 GAGE	25'-0"	21'-4"	.411	.744	12'-0" O.C.
3 5/8" X 20 GAGE	21'-5"	18'-7"	.270	.490	10'-0" O.C.
3 5/8" X 25 GAGE	17'-6"	15'-5"	.155	.281	8'-0" O.C.
2 1/2" X 18 GAGE	17'-6"	13'-4"	.281	.314	9'-0" O.C.
2 1/2" X 20 GAGE	15'-10"	13'-10"	.160	.200	8'-0" O.C.
2 1/2" X 25 GAGE	13'-1"	11'-6"	.092	.115	6'-0" O.C.

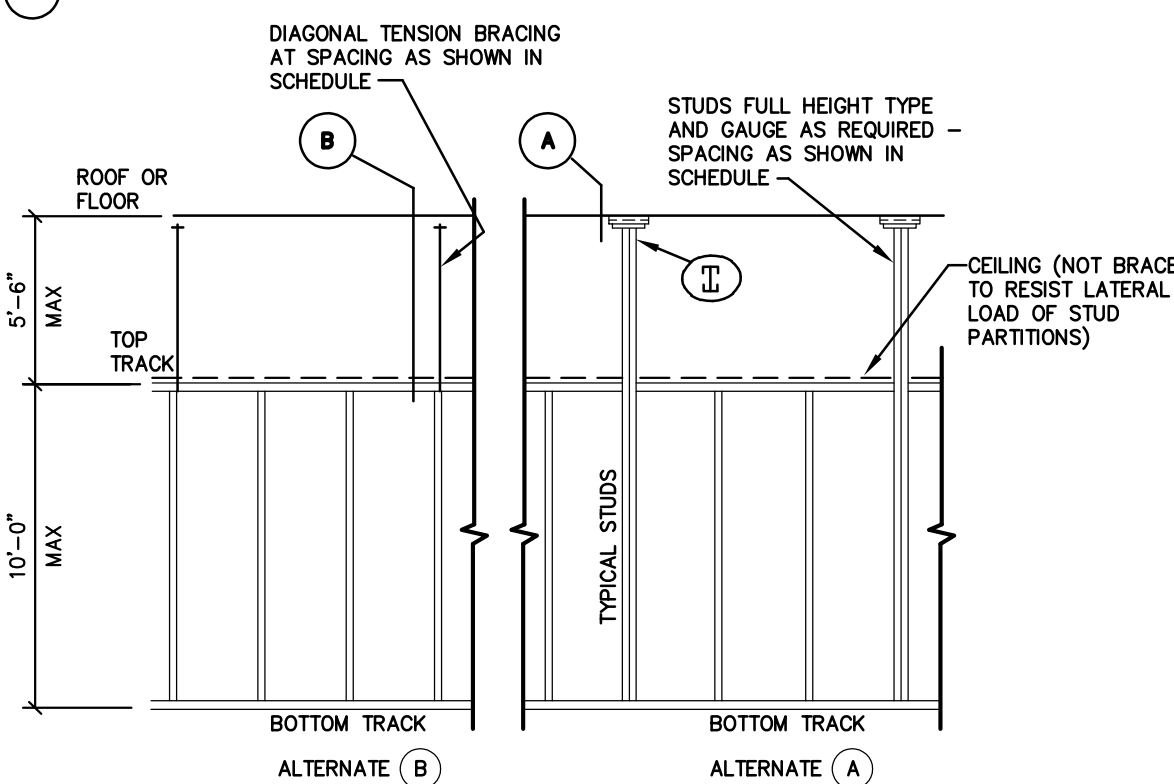
VALUES SHOWN BASED ON STUDS SUPPLIED BY WESTERN METAL LATH STEEL FRAMING PRODUCTS. OTHER STUDS OF EQUAL TO OR GREATER STRENGTH MAY BE USED WITH CURRENT I.C.B.O. APPROVAL.
VALUES BASED ON NO AXIAL LOAD AND DEFLECTION LIMIT OF h/120 (VERIFY WITH ARCHITECTURAL SPECIFICATIONS FOR SPECIAL REQUIREMENT).
BRACING (SPACING) DESIGN BASED ON MAXIMUM WALL HEIGHT (TO CEILING) OF 10'-0" IF TOP TRACK FOR EACH WALL TYPE WERE INCREASED TO THE NEXT STANDARD GAGE, THE BRACING SPACING REQUIRED CAN BE INCREASED TO THE NEXT HIGHER INCREMENT SHOWN.
TOP AND BOTTOM TRACK TO BE SAME GAGE, Sx AND Ixx AS STUD WITH 1 1/2" DEEP FLANGES.
SPLICE TOP TRACK AT BRACING OR WALL CORNERS.
ATTACHMENT AS REQUIRED TO FLOOR SLAB OR DECK OR ROOF FRAMING.



SS02 TRACK DETAILS - TOP CONNECTIONS



SS01 TOP TRACK SUPPORT DETAILS - TOP CONNECTIONS



SS02 NON BEARING CEILING HEIGHT INTERIOR PARTITION BRACING TO FLOOR/ROOF NO SCALE

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Date	Description

Seal / Signature



Project Name

US Vets - 12027 N 28th Drive,
Phoenix AZ 85029

Project Number

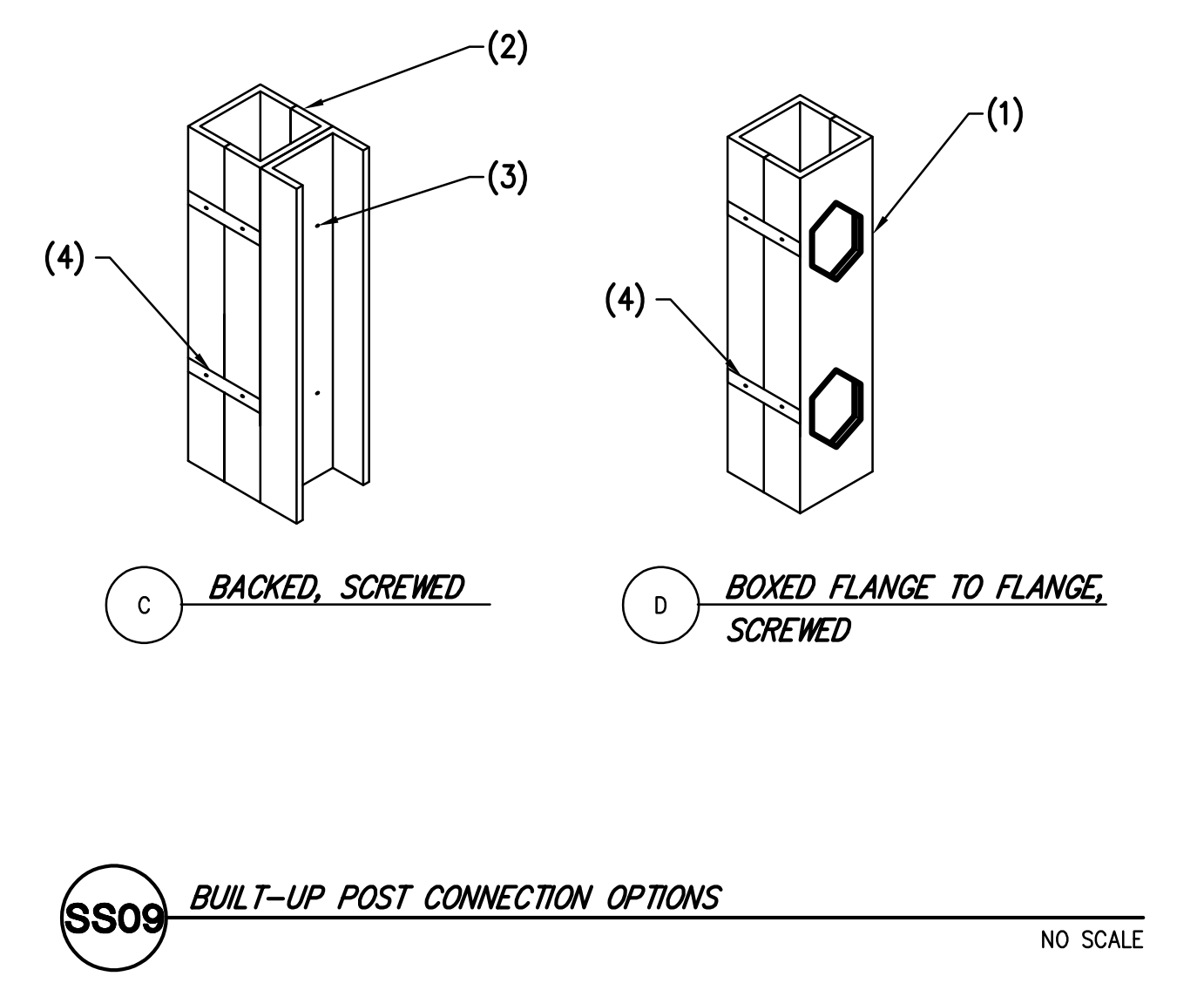
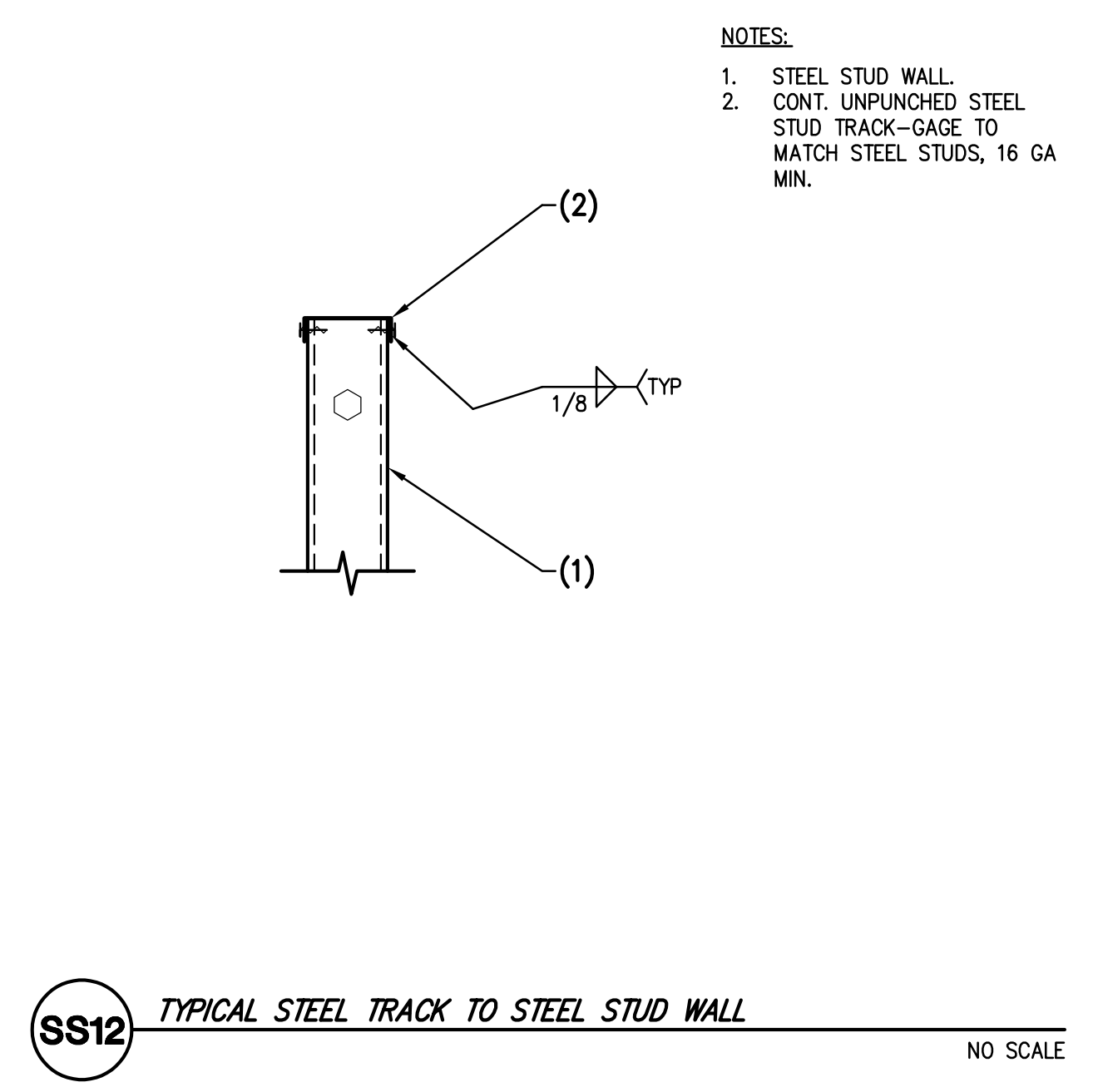
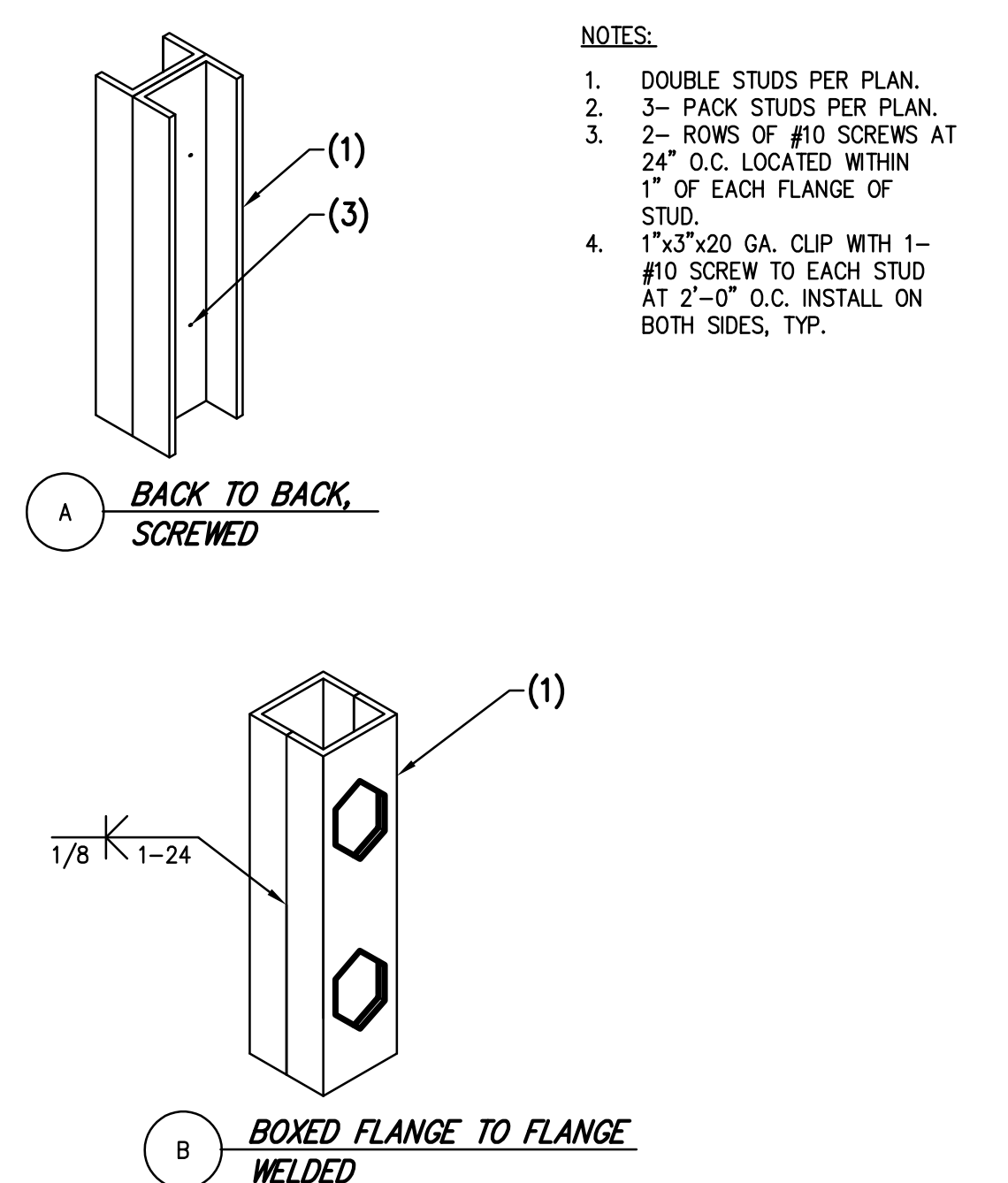
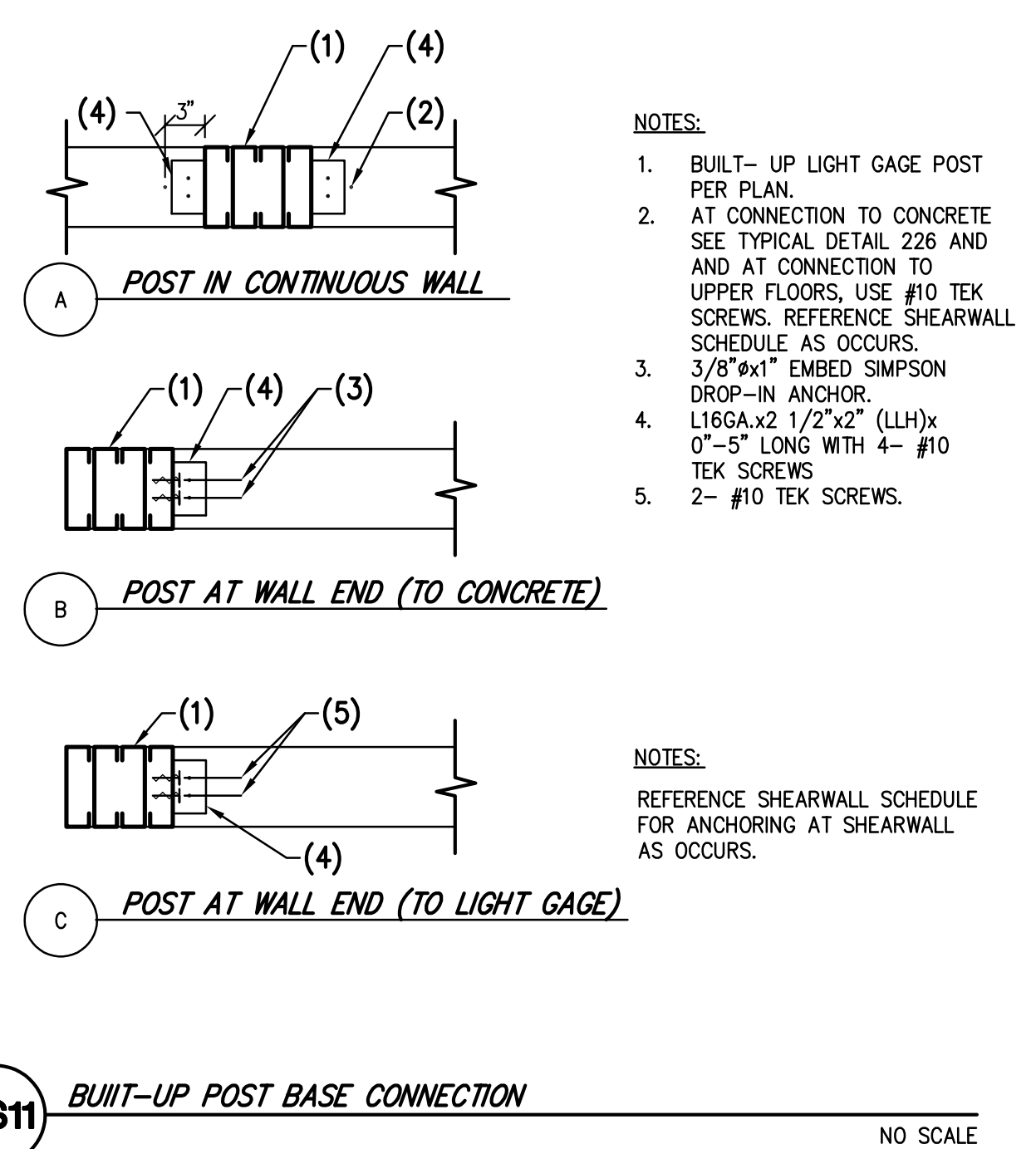
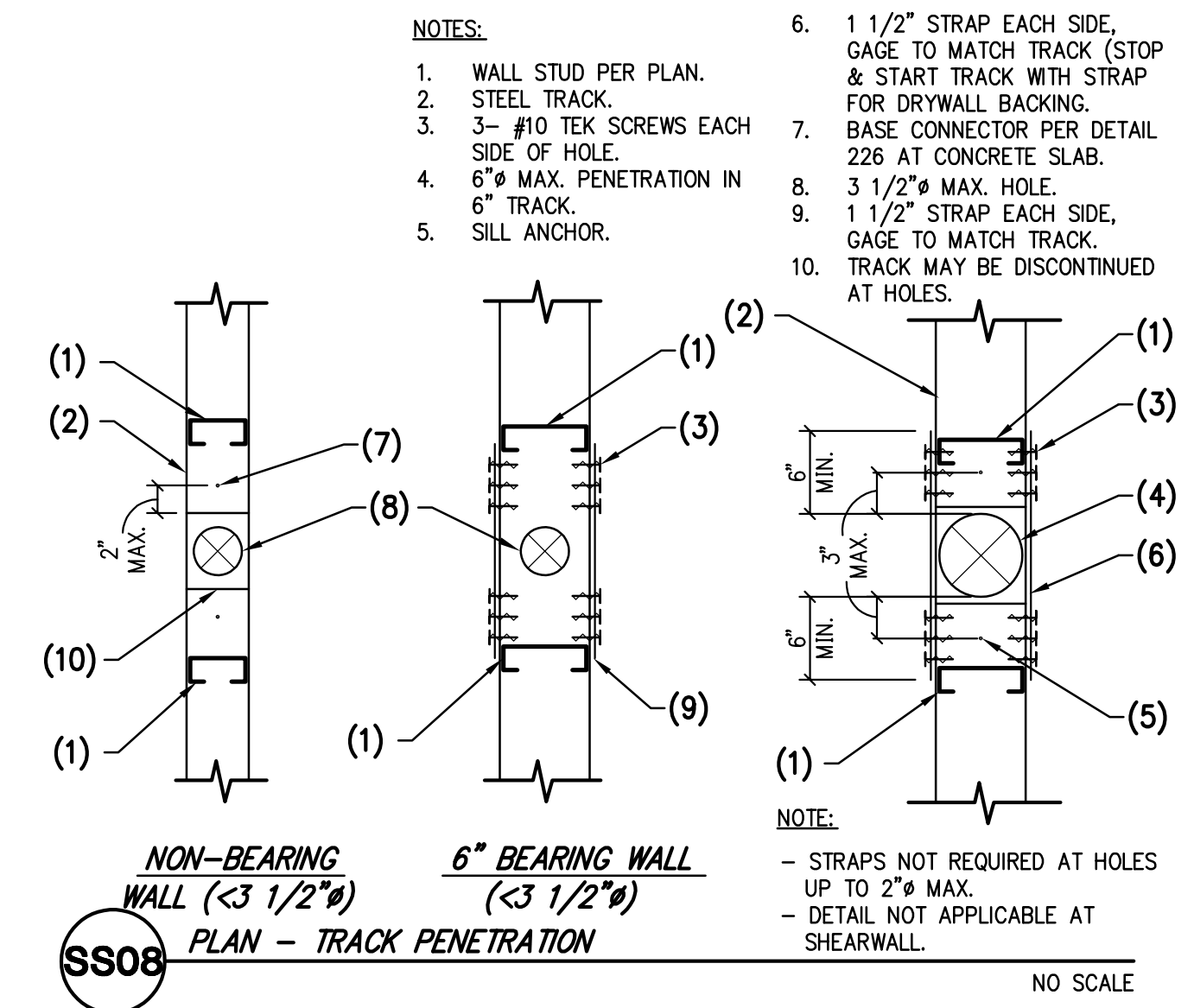
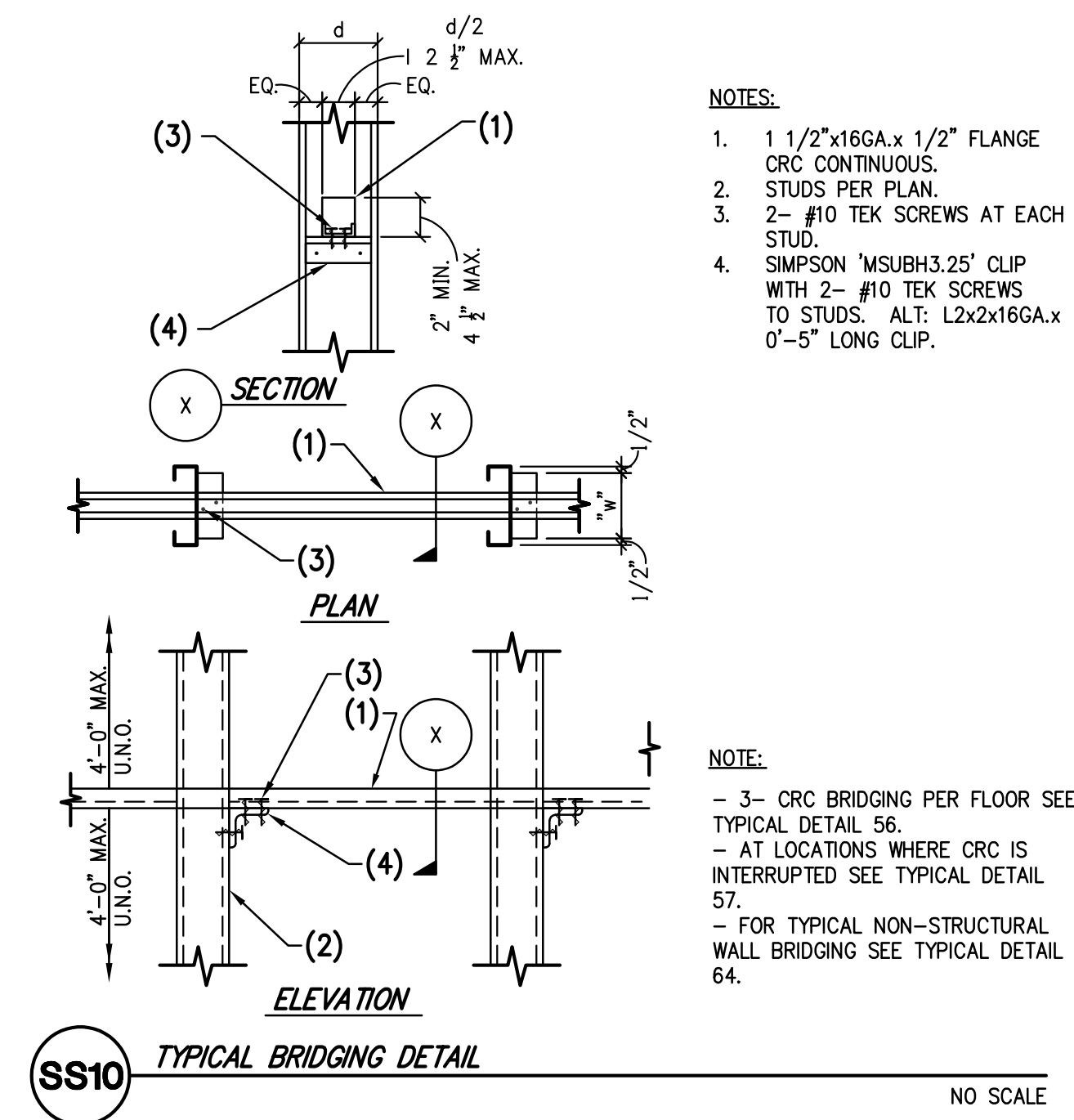
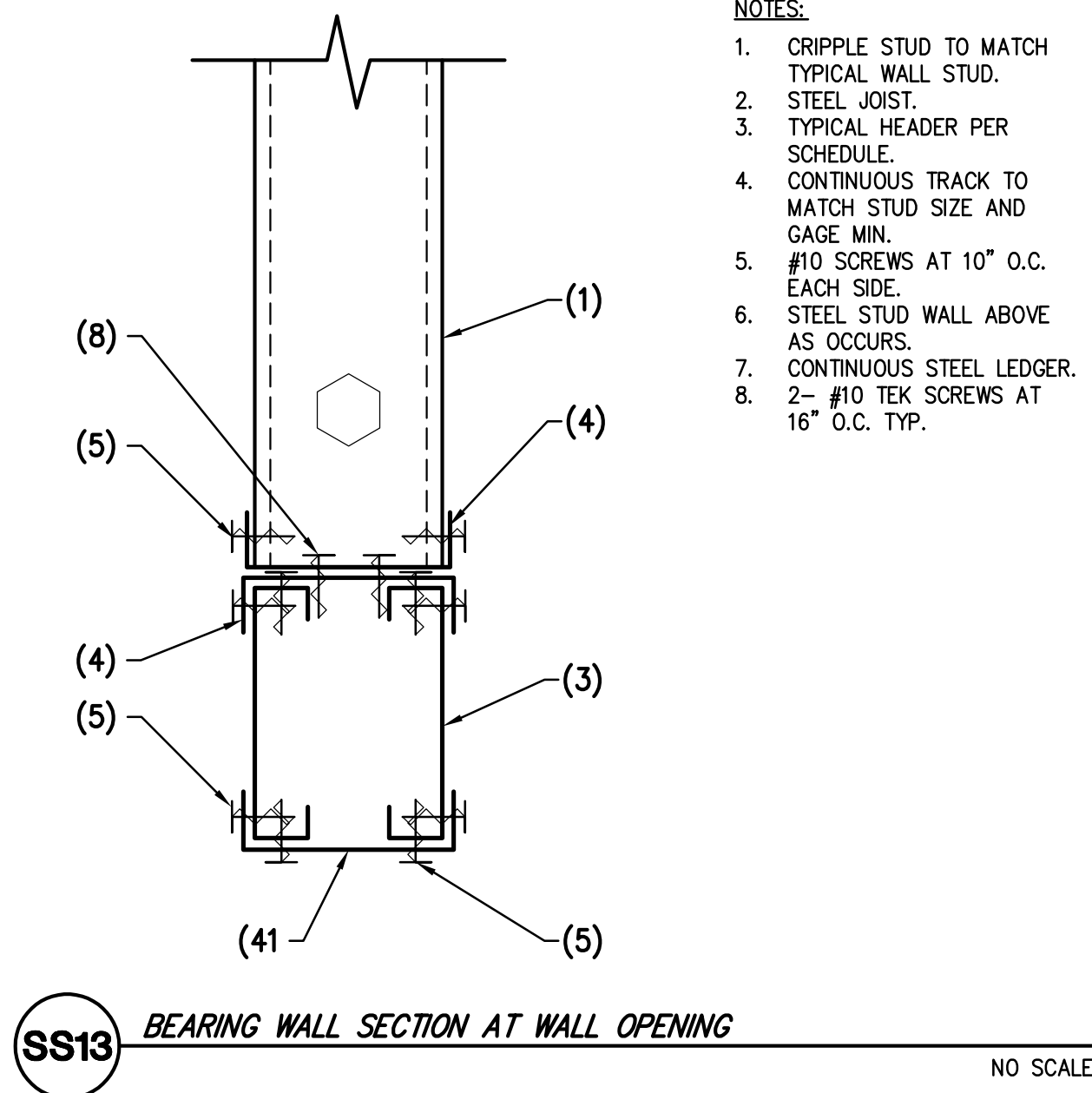
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Description

TYPICAL DETAILS

Scale

S3.00



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Seal / Signature



Project Name
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Phoenix AZ 85029

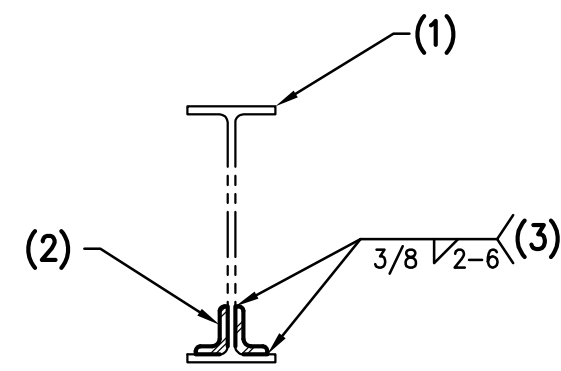
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Description
TYPICAL DETAILS

Scale

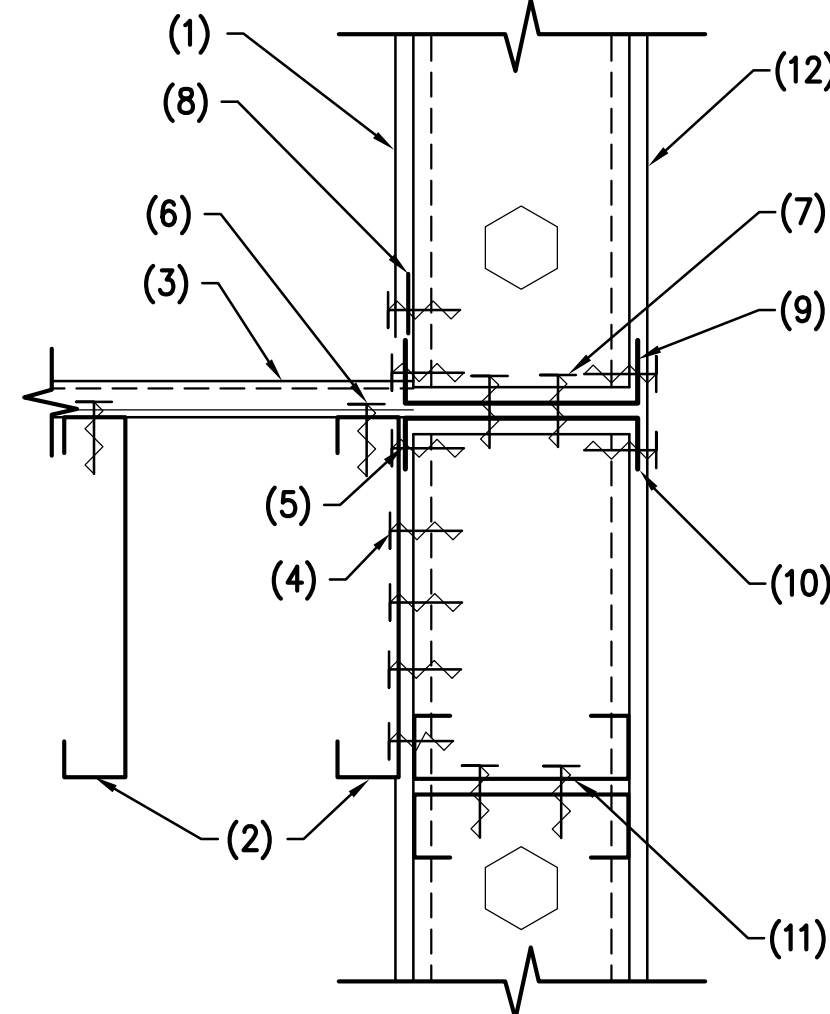
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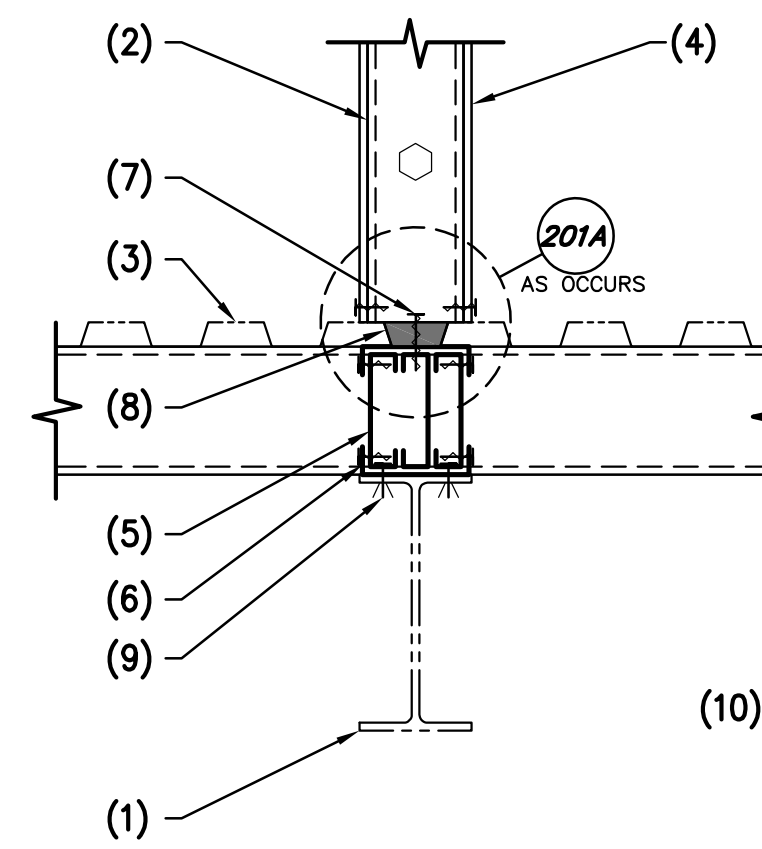
207 EXISTING MEMBER REINFORCEMENT NO SCALE

- NOTES:
- EXISTING STEEL BEAM.
 - L3x2x1/2 (LLV) EACH SIDE BY LENGTH SHOWN ON PLAN.
 - 12" STARTER WELD AT EACH END.



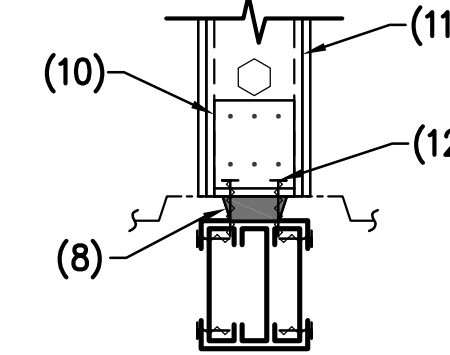
204 STEEL JOIST AT EXTERIOR STEEL STUD WALL NO SCALE

- NOTES:
- STEEL STUD WALL.
 - STEEL JOIST.
 - ROOF DECK, SEE PLAN FOR DIRECTION.
 - 3- #12 TEK SCREWS EACH STUD.
 - #12 TEK SCREWS AT 8" O.C. JOIST TO TOP TRACK. SPACE SCREWS PER SHEARWALL SCHEDULE AS SHEARWALL OCCURS.
 - EDGE ATTACHMENT.
 - 2- #10 TEK SCREWS AT 16" O.C. TYP.
 - 1 1/2"x20 GA. CONTINUOUS STRAP STACKED TIGHTLY TO TRACK FLANGE WITH #10 TEK SCREWS EACH STUD. TYP. ADJACENT TO METAL DECK FLOORING.
 - 2" FLANGE CONTINUOUS BOTTOM TRACK - GAGE AND DEPTH TO MATCH STUD GAUGE WITH #10 TEK SCREWS EACH FLANGE EACH STUD. PROVIDE 3 1/2" FLANGE WIDTH AT ALL SHEARWALL LOCATIONS TO ALLOW SCREW ATTACHMENT PER SHEARWALL SCHEDULE.
 - 16 GA. x 1 1/2" FLANGE CONTINUOUS TOP TRACK - WIDTH TO MATCH STUD WITH #10 TEK SCREWS EACH FLANGE EACH STUD.
 - DOUBLE 18 GA. BLOCKING AT SHEARWALLS.
 - SHEATHING AS OCCURS.



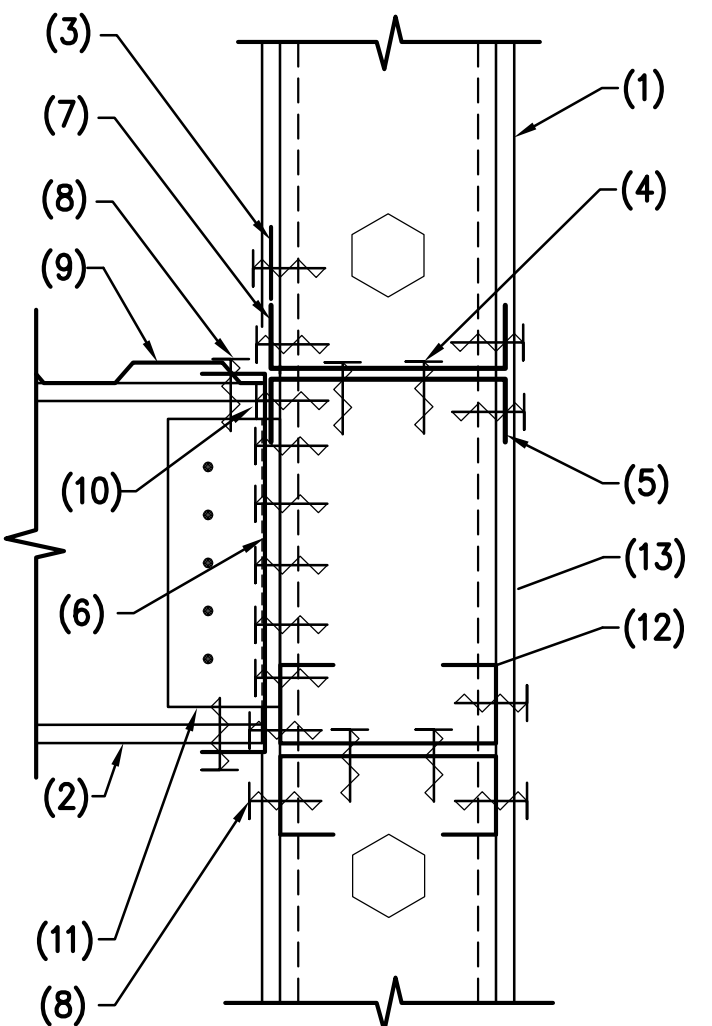
201 STEEL STUD WALL AT STEEL BEAM NO SCALE

- NOTES:
- EXISTING STEEL BEAM.
 - STEEL STUD WALL.
 - EXISTING STEEL DECK.
 - GYP SHEATHING PER ARCH'L.
 - BOXED HEADER PER PLAN.
 - 16GA CONT. TRACK WITH 2- #10 TEK SCREWS EACH SIDE.
 - #12 TEK SCREWS AT 16" O.C.
 - SHIM PLATE.
 - 2- 1/4" HILTI SHOT PINS AT 8" O.C.
 - AT HOLDDOWNS, PROVIDE L6x6x12GA STEEL ANGLE WITH 6- #12 TEK SCREWS IN COMPRESSION STUDS.
 - 3- BUILT UP STUDS WITH 14GA.
 - 4- 1/4" HILTI SHOT PINS IN THE HEADER.

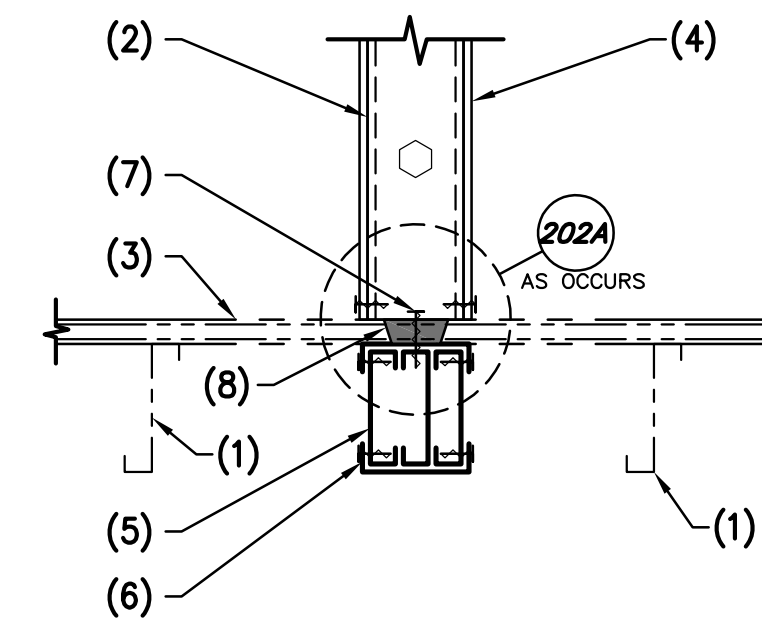


201A AS OCCURS NO SCALE

- NOTES:
- STEEL STUDS.
 - STEEL JOIST PER PLAN (ALIGN WITH STUDS).
 - 1 1/2"x20 GA. CONTINUOUS STRAP STACKED TIGHTLY TO TRACK FLANGE WITH #10 TEK SCREWS EACH STUD. TYP. ADJACENT STEEL DECK.
 - 2- #10 TEK SCREWS AT 16" O.C. TYP.
 - 16 GA x 1 1/2" FLANGE CONT. TRACK - WIDTH TO MATCH STUD WITH #10 TEK SCREWS EACH FLANGE EACH STUD.
 - CONT. 16GA x 1 1/2" FLANGE LEDGER STEEL TRACK.
 - 2" FLANGE CONT. STEEL BOTTOM TRACK - GAGE AND DEPTH TO MATCH STUD GAUGE WITH #10 TEK EACH FLANGE EACH STUD U.N.O. PROVIDE 3 1/2" FLANGE WIDTH AT ALL SHEARWALL LOCATIONS TO ALLOW SCREW ATTACHMENT PER SHEARWALL SCHEDULE.
 - EDGE ATTACHMENT.
 - ROOF DECK SEE PLAN FOR DIRECTION.
 - #12 TEK SCREWS AT 8" O.C. - STEEL LEDGER TO TOP TRACK SCREWS PER SHEARWALL SCHEDULE AS SHEARWALL OCCURS.
 - L3x3x16GA x 8" LONG AT EACH JOIST WITH 5- #12 TEK SCREWS.
 - DOUBLE 18 GA. BLOCKING AT SHEARWALLS.
 - SHEATHING AS OCCURS.

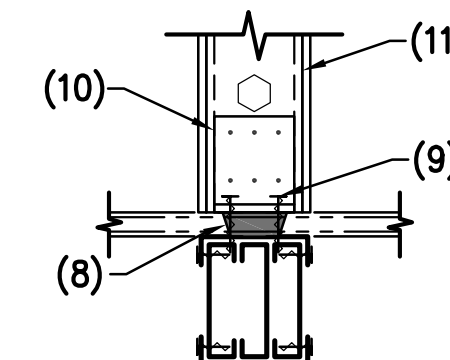


205 STEEL JOIST AT EXTERIOR STEEL WALL NO SCALE

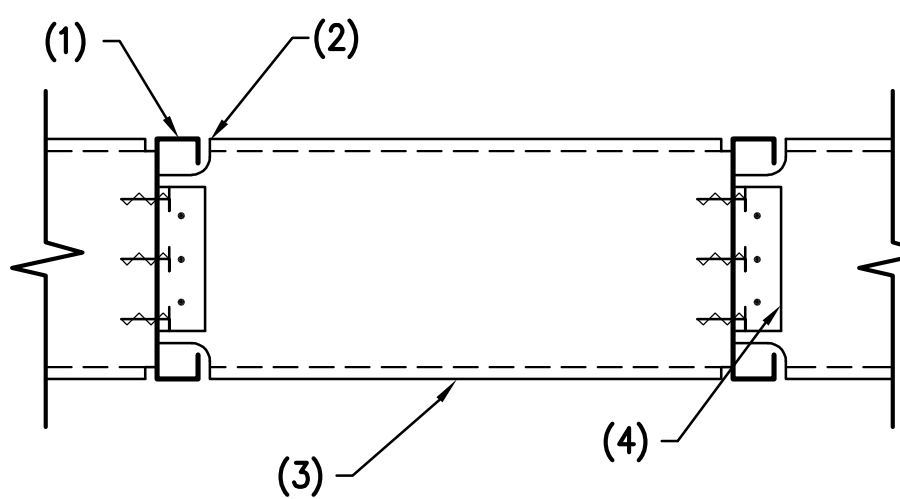


202 STEEL STUD WALL AT STEEL BOXED HEADER NO SCALE

- NOTES:
- EXISTING STEEL Z PURLIN.
 - STEEL STUD WALL.
 - EXISTING STEEL DECK.
 - GYP SHEATHING PER ARCH'L.
 - BOXED HEADER PER PLAN.
 - 16GA CONT. TRACK WITH 2- #10 TEK SCREWS EACH SIDE.
 - #12 TEK SCREWS AT 16" O.C.
 - SHIM PLATE.
 - 4- 1/4" HILTI SHOT PINS IN THE HEADER.
 - AT HOLDDOWNS, PROVIDE L6x6x12GA STEEL ANGLE WITH 6- #12 TEK SCREWS IN COMPRESSION STUDS.
 - 3- BUILT UP STUDS WITH 14GA.

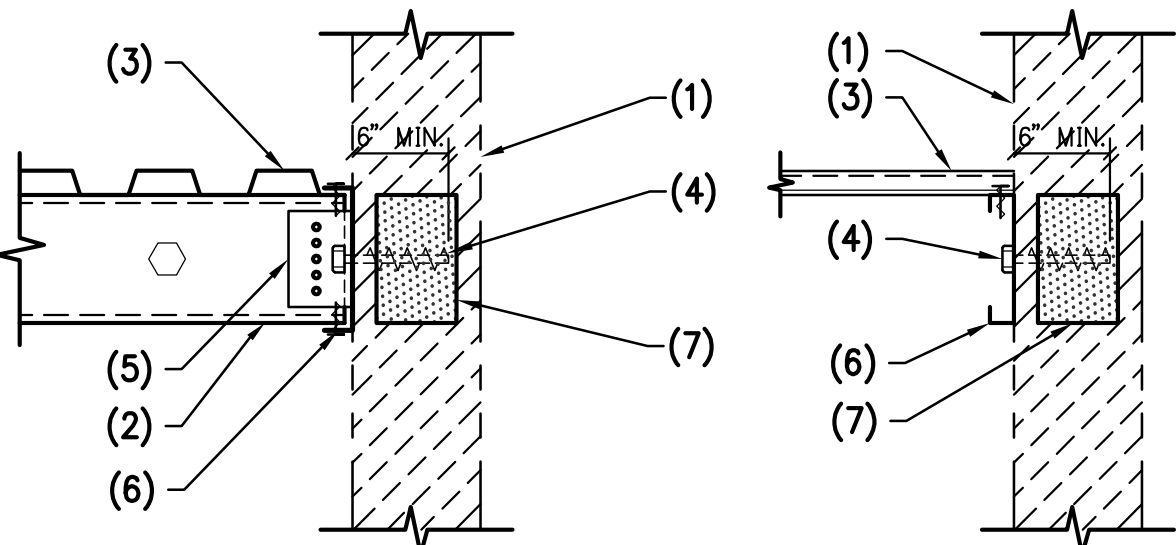


- NOTES:
- STEEL JOIST.
 - NOTCH BLOCKING AS REQUIRED.
 - 16GA.x1 5/8" FLANGE FULL HEIGHT BLOCKING BEND WEB AT EACH END TO FORM TAB AND CONNECT W/ 3 #10 TEK SCREWS EACH JOIST. ALTERNATE AT CONTRACTORS OPTION, USE L2x2x16GA. 0'-8" LONG CLIP EACH END OF BLOCKING WITH 3- #10 TEK SCREWS EACH LEG EACH CLIP.



206 TYPICAL JOIST BLOCKING DETAIL NO SCALE

- NOTES:
- EXISTING MASONRY WALL.
 - STEEL STUD JOIST.
 - STEEL DECK.
 - 3/4" HILTI KWIK HUS EZ ANCHORS AT 16" O.C.
 - L3x3x16GA x 8" LONG AT EACH JOIST WITH 5- #12 TEK SCREWS AT 203A. PROVIDE ANGLE BOTH SIDES OF BOXED HEADER.
 - 14GA CONT. TRACK WITH #12 TEK SCREWS EACH SIDE. GROUT 4" MIN. ABOVE AND BELOW ANCHORS.



203 STEEL STUD JOIST AT MASONRY WALL NO SCALE

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Project Number

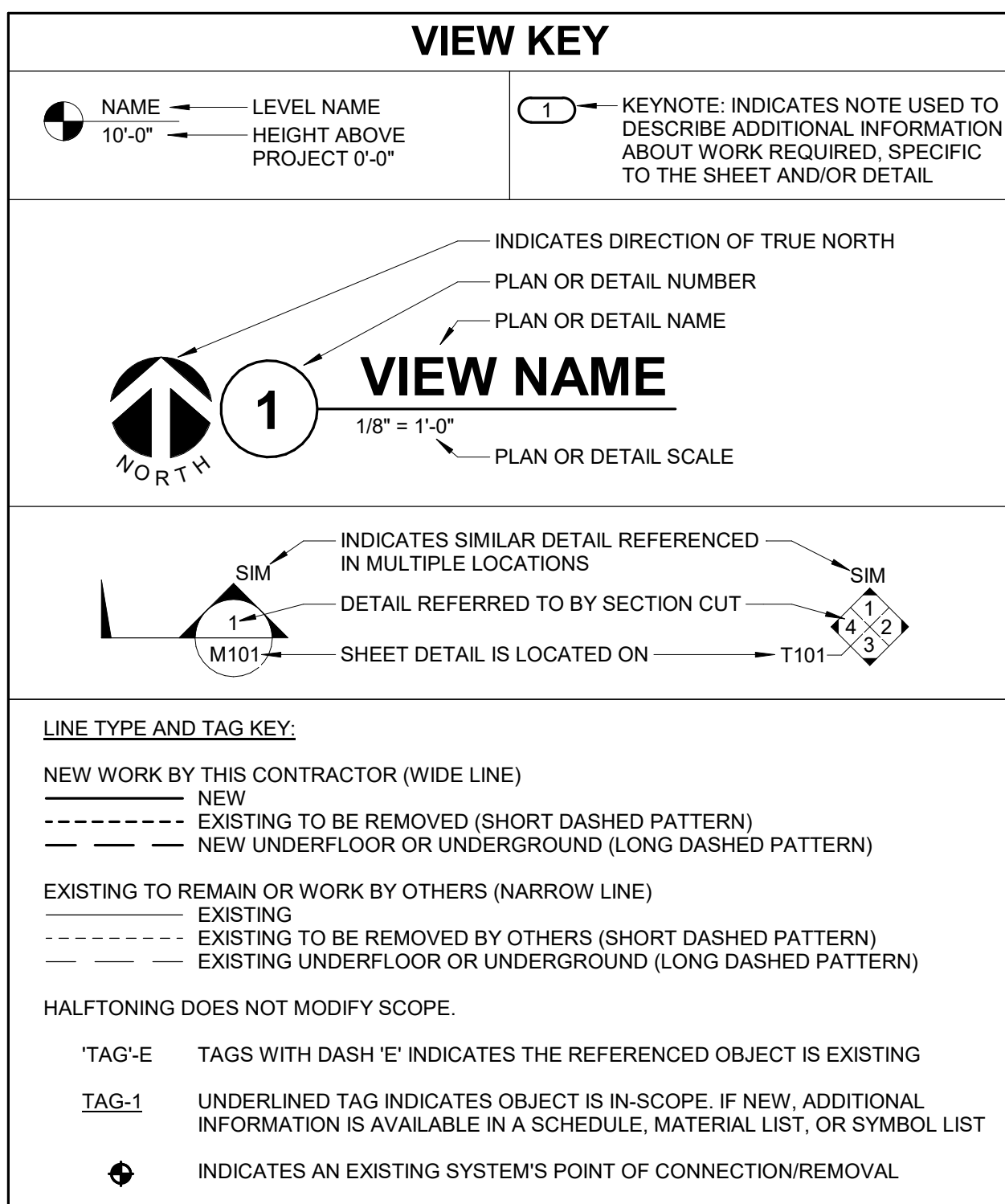
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Description

FRAMING DETAILS

Scale

S4.00



APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	IFC 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2018
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

VENTILATION SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION NAME	REVISION DATE
M0.00.CE	VENTILATION COVERSHEET			
M2.00.CE	MECHANICAL ENLARGED PLANS			
M4.01.CE	MECHANICAL SCHEDULES			
M1.01.CE	MECHANICAL SPECIFICATIONS			
M1.02.CE	MECHANICAL SPECIFICATIONS			
M1.03.CE	MECHANICAL SPECIFICATIONS			
GRAND TOTAL: 6				

VENTILATION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	TERMINAL AIR BOX (REFER TO SCHEDULE)
	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	HUMIDISTAT SENSOR
	HUMIDISTAT/SENSOR (DUCT MOUNTED)
	OCCUPANCY SENSOR
	PRESSURE SENSOR/MONITOR
	PRESSURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR
	TEMPERATURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: BASED ON WEATHER DATA FOR: PHOENIX, ARIZONA

SUMMER: 115°F DRY BULB, 74°F WET BULB
WINTER: 34°F DRY BULB

TYPICAL ROOM SETPOINTS:
 WINTER DESIGN: 75°F DRY BULB, NO HUMIDITY REQUIREMENT
 SUMMER DESIGN: 70°F DRY BULB, NO HUMIDITY REQUIREMENT
 WINTER SETBACK: 60°F DRY BULB, NO HUMIDITY REQUIREMENT
 SUMMER SETBACK: 65°F DRY BULB, NO HUMIDITY REQUIREMENT

MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ABRAVE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN ACCESS TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE SWITCHOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
 - PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

VENTILATION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CFSD	CONTROL FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATINGS
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
Typ	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.G. PER 100' OF DUCTWORK.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
 - DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY GREATER NUMBER SHALL GOVERN.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUTS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CALL ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
 - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.

US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

**OFFICE OF PHOENIX
HOUSING DEPARTMENT**
Project Number: AH10010002

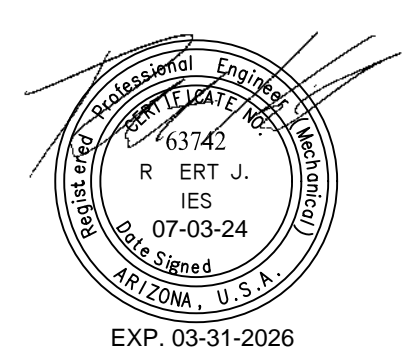
Gensler
Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States
Tel: 602.523.4900
Fax: 602.523.4949

Date	Description

KIVA #
SDEV #

Note:
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Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
VENTILATION COVERSHEET

Scale
As indicated

M0.00.CE

IMEG 8000 E FIRMA CENTER PARKWAY
SUITE 100
SCOTTSDALE, AZ 85258
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www.imegcorp.com

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REF. SCALE IN INCHES PROJECT #2200173.01

US VETS

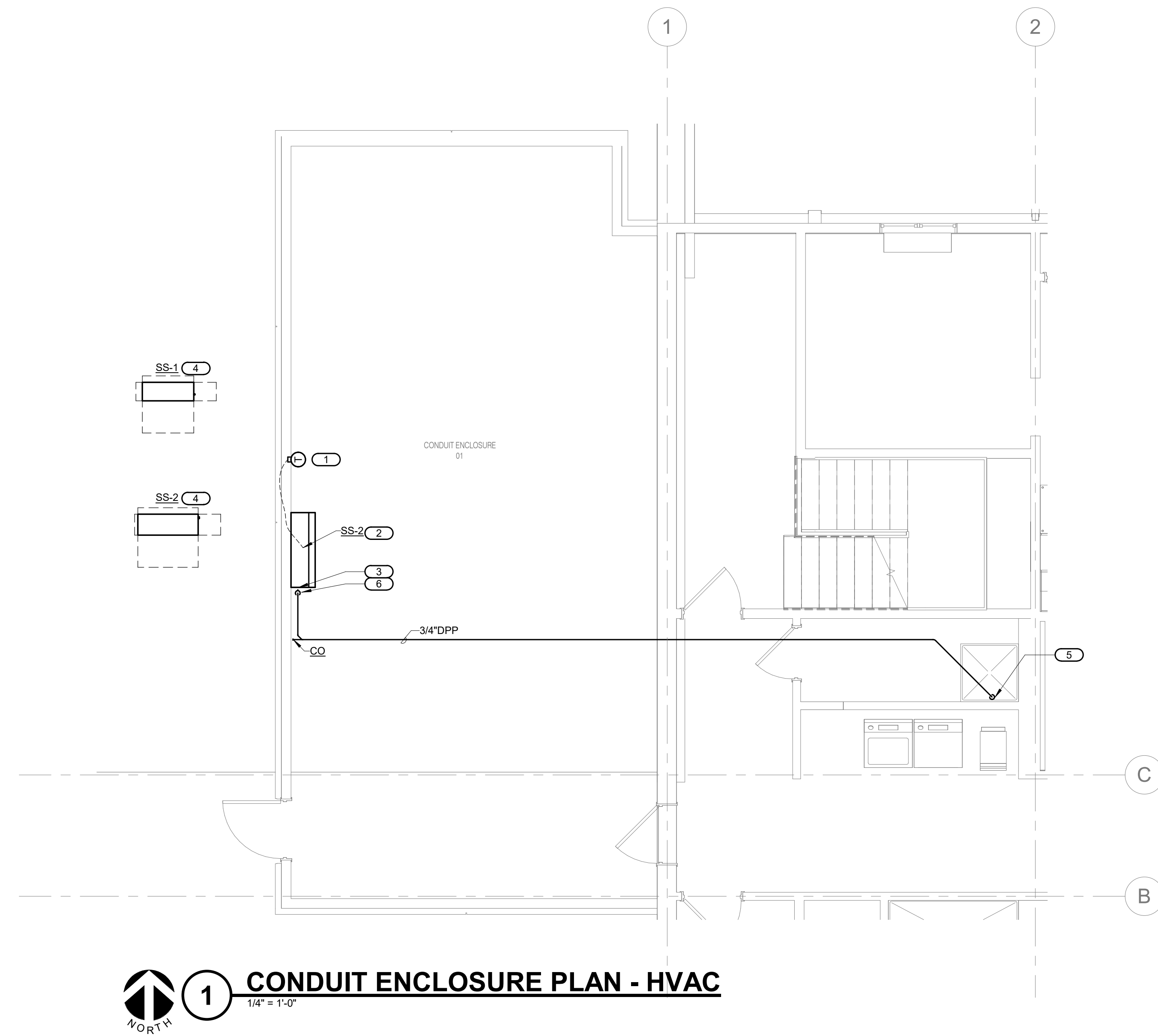
12027 N 28TH DRIVE
PHOENIX, AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States
Tel: 602.523.4900
Fax: 602.523.4949

- KEYNOTES:**
1. INSULATED MANUFACTURER'S 7-DAY PROGRAMMABLE THERMOSTAT.
 2. PROVIDE MANUFACTURER'S REFRIGERANT PIPING LINE SET AND ROUTE TO ASSOCIATED OUTDOOR UNIT. SIZE, ROUTE, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE PIPING INSULATION ON ALL REFRIGERANT PIPING AS PER MANUFACTURER'S RECOMMENDATIONS.
 3. ROUTE 3/4" CONDENSATE DRAIN PIPING UP FROM CONDENSATE PUMP AND WYE INTO TOP OF GRAVITY DRAIN.
 4. MANUFACTURER'S REFRIGERANT PIPING LINE SET, SIZE, ROUTE AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ROUTING OF REFRIGERANT PIPING TO CORRESPONDING UNIT WITH GENERAL CONTRACTOR. PROVIDE VAPOR BARRIER AND ALUMAGUARD (OR EQUAL), ALUMINUM JACKET ON PIPING ON BUILDING EXTERIOR.
 5. CONDENSATE DRAIN ROUTED DOWN ON WALL TO MOP SINK. TERMINATE WITH REQUIRED AIR GAP.
 6. CONDENSATE UP FROM INTEGRAL PUMP TO GRAVITY FEED.



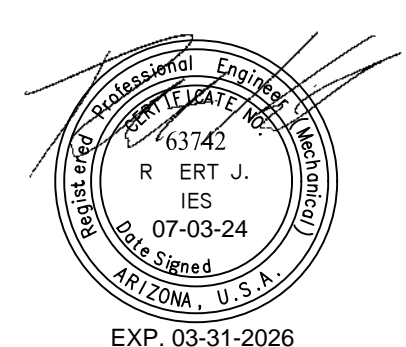
1 CONDUIT ENCLOSURE PLAN - HVAC
1/4" = 1'-0"

Date	Description
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KIVA #
SDEV #

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Seal / Signature



Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
MECHANICAL ENLARGED PLANS

Scale
1/4" = 1'-0"

M2.00.CE

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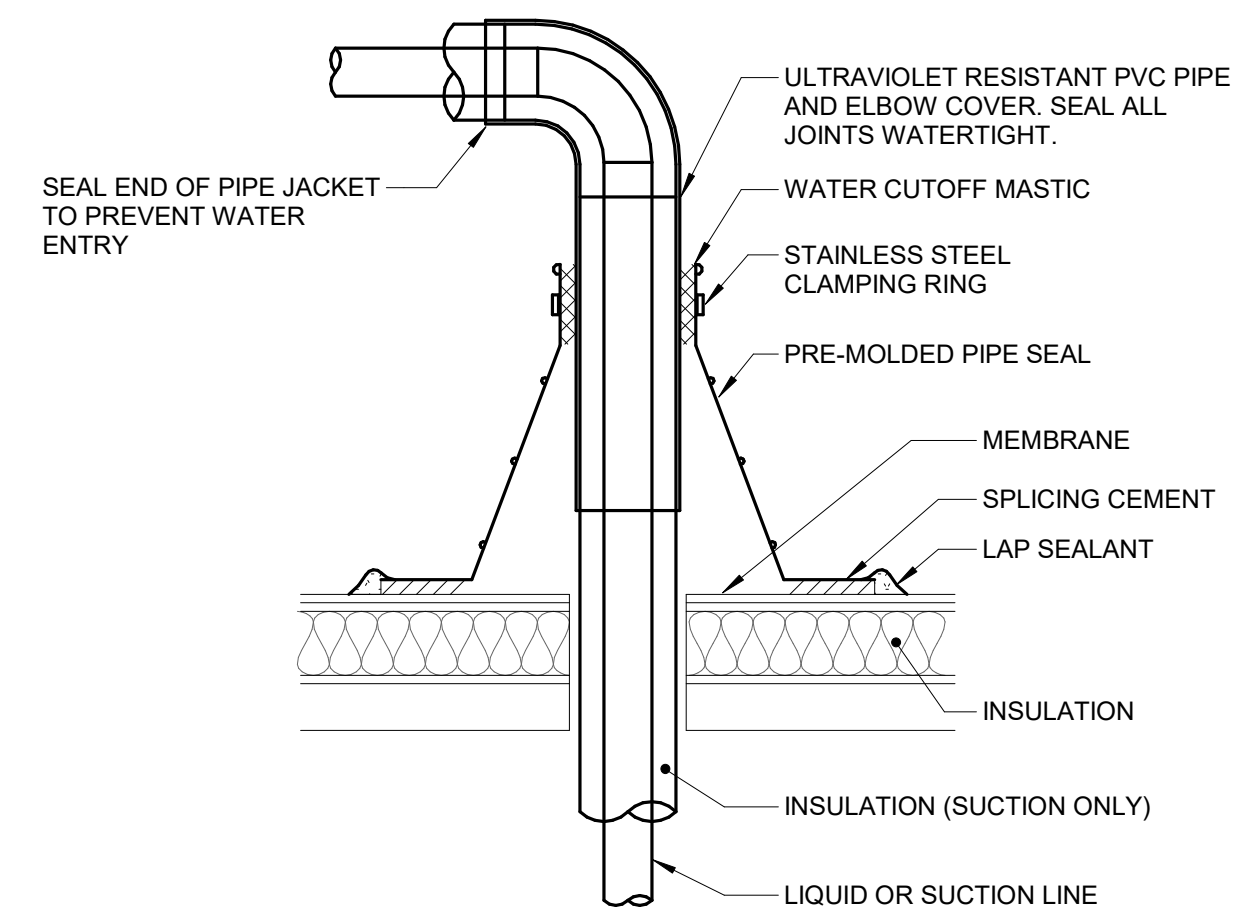
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REF. SCALE IN INCHES PROJECT #22000173.01

CONDUIT SPLIT SYSTEM UNIT SCHEDULE

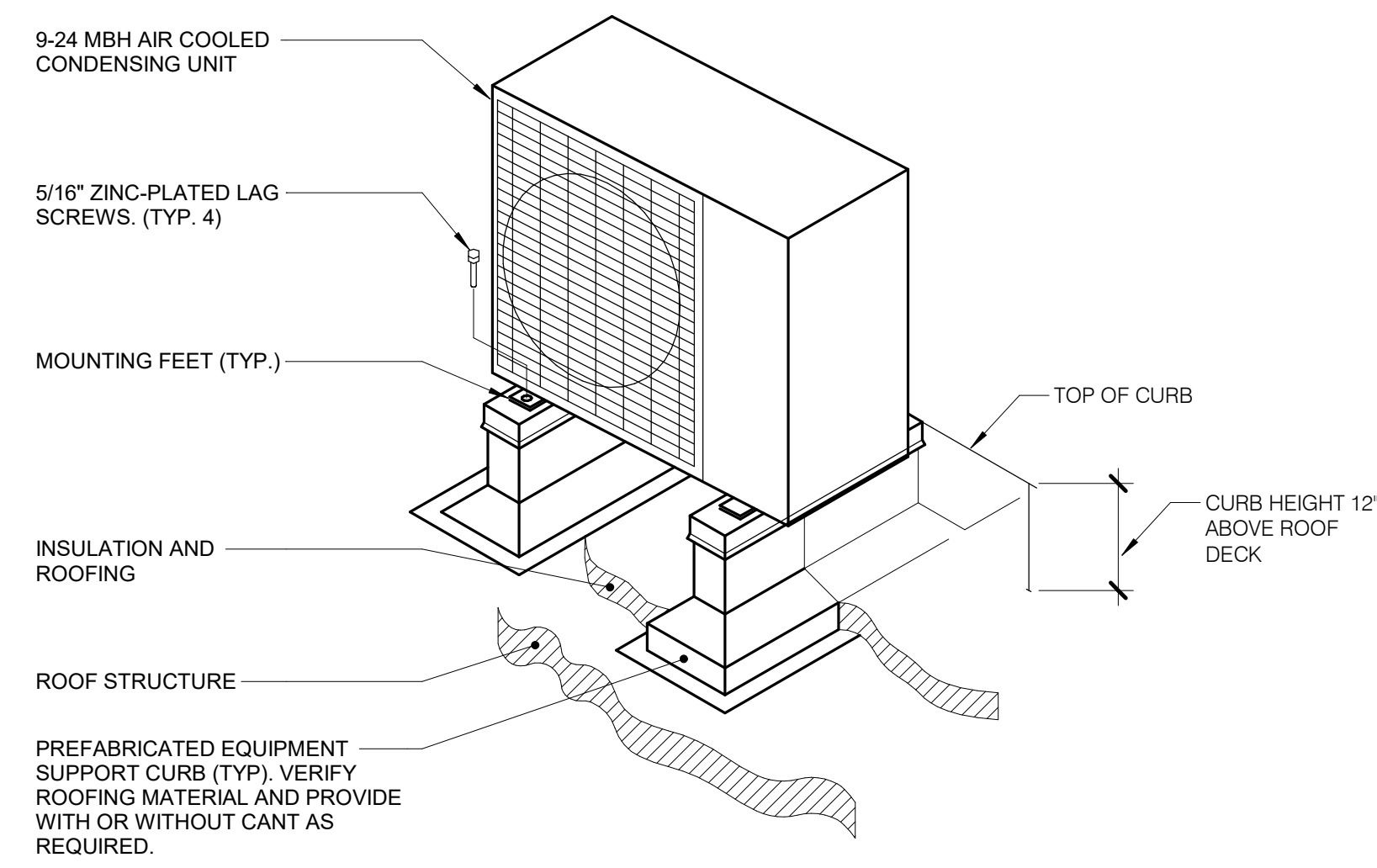
NOTES:
 1. UNIT SHALL BE PROVIDED WITH INTEGRAL LIFT/PUMP FOR CONDENSATE REMOVAL. IF NOT PROVIDED INTEGRAL WITH UNIT, CONTRACTOR SHALL PROVIDE SEPARATE CONDENSATE PUMP. CONDENSATE PUMP SHALL BE POWERED BY UNIT. IF NOT, MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR CONDENSATE PUMP.
 2. PROVIDE WITH MANUFACTURER'S 7-DAY PROGRAMMABLE THERMOSTAT.
 3. COOLING ONLY UNIT.
 4. SINGLE POINT CONNECTION: OUTDOOR UNIT POWERS INDOOR UNIT.
 5. PROVIDE LOW AMBIENT KIT.
 6. PROVIDE HAIL GUARDS.
 7. PROVIDE WIND BAFFLE.
 8. ROUTE 3/4" CONDENSATE DRAIN PIPING WITH INSULATION DOWN ALL WALL AND TERMINATE AT LAVATORY SINK OR OTHER ACCEPTABLE PLUMBING EQUIPMENT WITH MINIMUM 1" AIR GAP.

TAG NAME	AREA SERVED	INDOOR UNIT					OUTDOOR UNIT					ELECTRICAL									
		CFM	DESIGN COOLING MBH	MAX. DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	WEIGHT (LB.)	MODEL	SEER	MAX. DIMENSIONS (IN.) HEIGHT	LENGTH	WIDTH	WEIGHT (LB.)	MODEL	VOLTAGE	PHASE	MCA	MOCF	BY (NOTE A)	TYPE (NOTE B)	MANUFACTURER
SS-2	CONDUIT	800	13.7	8 7/16	41 1/2	11 3/4	27.6	RNS24ABT	18	3'-3 1/4"	1'-1"	3'-1"	150.4	RNS24YBT	208	1	20.0	30	EC	F	SAMSUNG



NOTES:
 1. MASTIC, PIPE SEAL, AND CEMENT TO MATCH ROOFING SUPPLIERS REQUIREMENTS.

1 ROOF PENETRATION - INSULATED PIPE
 NO SCALE



NOTES:
 1. VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.

2 ROOF SUPPORT - EQUIPMENT RAIL
 NO SCALE

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: US Vets Conduit Package
 Location: Phoenix, Arizona
 Climate Zone: 2b
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
 Credits: 1.0 Required, 0.0 Proposed

Mechanical Systems List
Quantity System Type & Description

- 1 SS-2 (Single Zone):
 Cooling: 1 each - Split System, Capacity = 11 kBtu/h, Air-Cooled Condenser, Unknown Economizer
 Proposed Efficiency = 18.00 SEER, Required Efficiency = 13.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: Fan 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 85.0 fan efficiency grade, 90.0 total fan efficiency, 87.0 design fan efficiency, fan exception: Single fan <= 5HP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: US Vets Conduit Package Report date: 05/28/24
 Data filename: _____ Page 4 of 12

SCHEDULE GENERAL NOTES:

- A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
 MFR = MANUFACTURER
 EC = ELECTRICAL CONTRACTOR
 MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
 MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR
 TCC = TEMPERATURE CONTROL CONTRACTOR
- B. DISCONNECT TYPE:
 CB = CIRCUIT BREAKER
 F = FUSED
 NF = NON-FUSED
 PLUG = PLUG AND CORD
- C. CONTROLLER STARTER TYPE:
 FV = FULL VOLTAGE
 WYE = WYE-DELTA
 SS = SOLID STATE (SOFT START)
 MS = MANUAL STARTER
 VFD = VARIABLE FREQUENCY DRIVE
 VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
 YD = WYE- DELTA
 ECM = ELECTRONICALLY COMMUTATED MOTOR
- D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
- E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
- F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
- G. CURB TYPE:
 MFR = STANDARD CURB BY MANUFACTURER
 GC = BY GENERAL CONTRACTOR
 SAC = SOUND ATTENUATOR CURB

US VETS

12027 N 28TH DRIVE
 PHOENIX, A 85029

**CITY OF PHOENIX
 OFFICE OF THE CITY ENGINEER
 HOUSING DEPARTMENT**

Project Number: AH10010002

Gensler

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 Fax: 602.523.4949

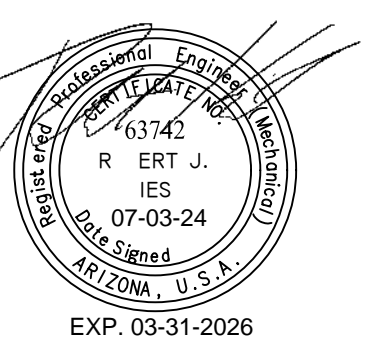
Date	Description
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KIVA #

SDEV #

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Seal / Signature



Project Name

ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number

057.8221.100

Description

MECHANICAL SCHEDULES

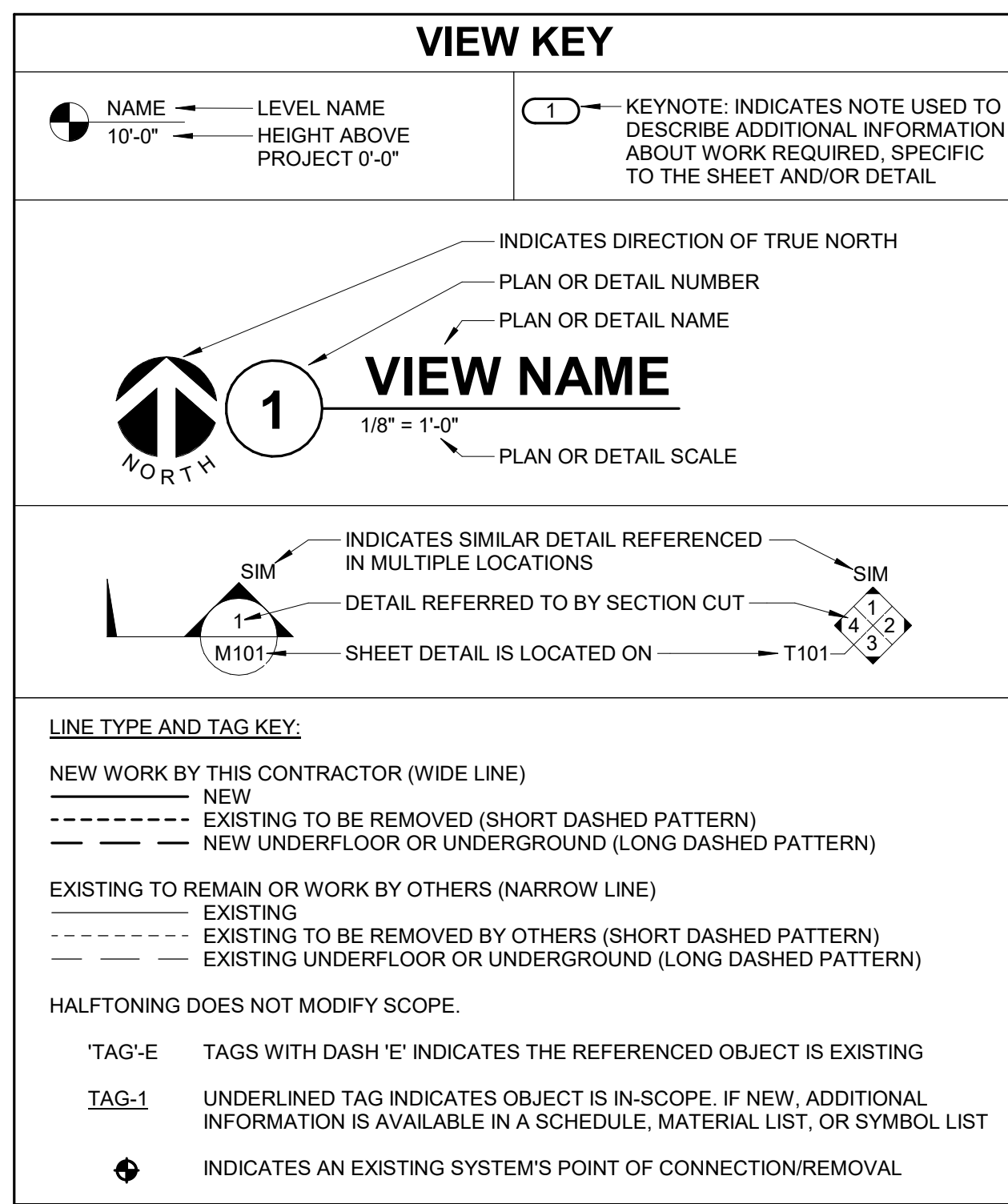
Scale

12" = 1'-0"

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REF. SCALE IN INCHES PROJECT #22000173.01



APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING.

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	IFC 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2018
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

VENTILATION SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION NAME	REVISION DATE
M0.00.IT	VENTILATION COVERSHEET			
M0.01.IT	MECHANICAL SPECIFICATIONS			
M0.02.IT	MECHANICAL SPECIFICATIONS			
M0.03.IT	MECHANICAL SPECIFICATIONS			
M2.00.IT	MECHANICAL ENLARGED PLANS			
M4.00.IT	MECHANICAL SCHEDULES			
GRAND TOTAL: 6				

VENTILATION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION THAT HAS BEEN REMOVED
	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	TERMINAL AIR BOX (REFER TO SCHEDULE)
	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	HUMIDISTAT SENSOR
	HUMIDISTAT/SENSOR (DUCT MOUNTED)
	OCCUPANCY SENSOR
	PRESSURE SENSOR/MONITOR
	PRESSURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR
	TEMPERATURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	AIRFLOW MEASUREMENT SYMBOL
	XX - AHU SYMBOL
	Y - SEQUENTIAL NUMBER

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: BASED ON WEATHER DATA FOR: PHOENIX, ARIZONA

SUMMER: 115°F DRY BULB, 74°F WET BULB
WINTER: 34°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN: 75°F DRY BULB, NO HUMIDITY REQUIREMENT
WINTER DESIGN: 70°F DRY BULB, NO HUMIDITY REQUIREMENT
SUMMER SETBACK: 80°F DRY BULB, NO HUMIDITY REQUIREMENT
WINTER SETBACK: 65°F DRY BULB, NO HUMIDITY REQUIREMENT

- ### MECHANICAL RENOVATION NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
 - PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

- ### TAB POST-CONSTRUCTION NOTES:
- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
 - AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
 - IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
 - A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
 - TAB CONTRACTOR SHALL COMPARE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23.05.93.
 - THE FINAL POST-CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

VENTILATION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CFSD	CONTROL/FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCOR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYD	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

- ### VENTILATION GENERAL NOTES:
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
 - UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
 - ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
 - PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
 - EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
 - CONTRACTOR SHALL PROVIDE THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.

- ### MECHANICAL GENERAL NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHERS WILL PERFORM ENGINEERS BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
 - DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/GREATER NUMBER SHALL GOVERN.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE NECESSARY ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHO CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER TIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
 - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.

US VETS

12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States

Tel: 602.523.4900
Fax: 602.523.4949

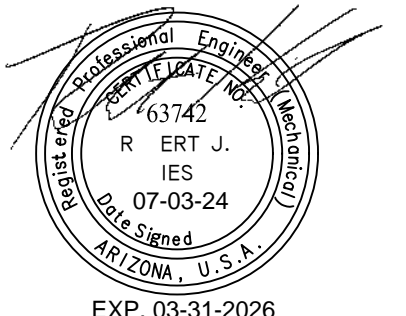
Date	Description

KIVA #

SDEV #

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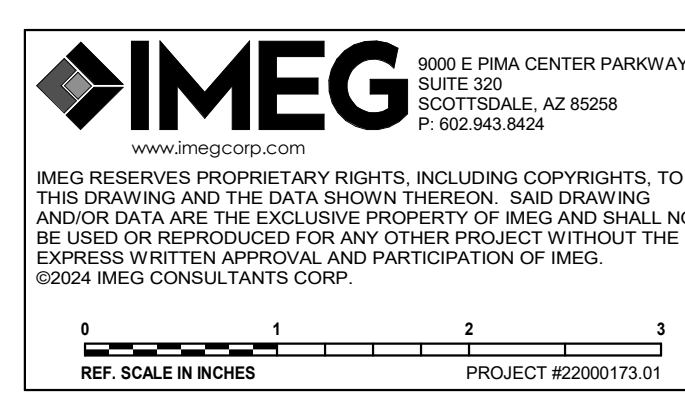
Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
VENTILATION COVERSHEET

Scale
As indicated

M0.00.IT



US VETS

12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT

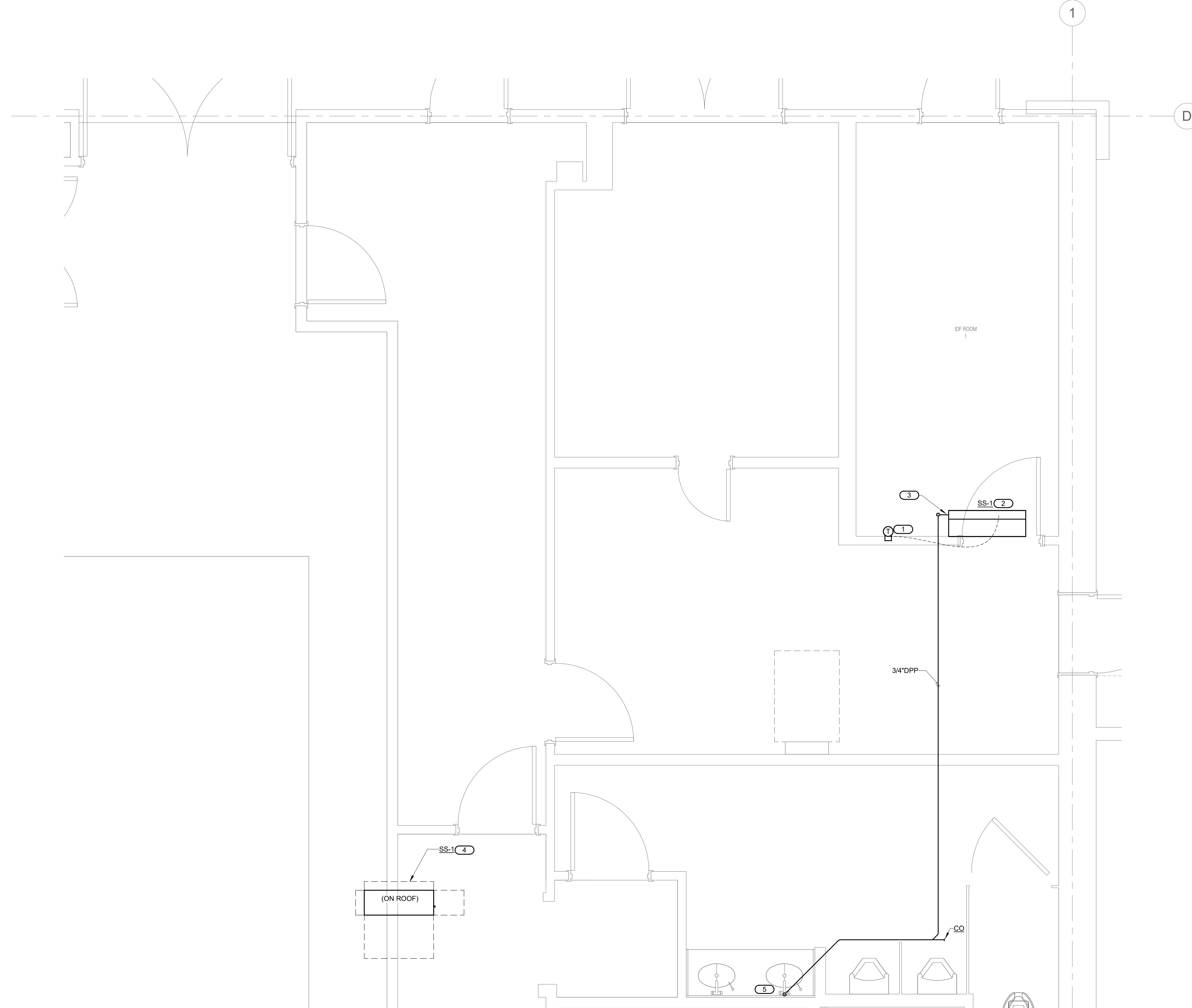
Project Number: AH10010002

Gensler

Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States

Tel: 602.523.4900
Fax: 602.523.4949

- KEYNOTES:**
1. MANUFACTURER'S 7-DAY PROGRAMMABLE THERMOSTAT.
 2. PROVIDE MANUFACTURER'S REFRIGERANT PIPING LINE SET AND ROUTE TO ASSOCIATED OUTDOOR UNIT. SIZE, ROUTE, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE PIPING INSULATION ON ALL REFRIGERANT PIPING AS PER MANUFACTURER'S RECOMMENDATIONS.
 3. ROUTE 3/4" CONDENSATE DRAIN PIPING UP FROM CONDENSATE PUMP AND WYE INTO TOP OF GRAVITY DRAIN.
 4. MANUFACTURER'S REFRIGERANT PIPING LINE SET, SIZE, ROUT AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ROUTING OF REFRIGERANT PIPING TO CORRESPONDING UNIT WITH GENERAL CONTRACTOR. PROVIDE VAPR BARRIER AND ALUMAGUARD (OR EQUAL) ALUMINUM JACKET ON PIPING ON BUILDING EXTERIOR.
 5. ROUTE 3/4" CONDENSATE DOWN IN WALL TO CONNECT TO LAVATORY TAILPIECE.



2 ENLARGED IDF ROOM
1/2" = 1'-0"

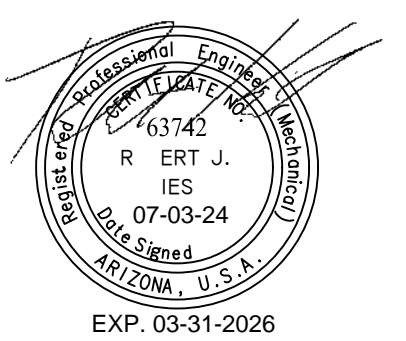
Date	Description
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Project Name

ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number

057.8221.100

Description

MECHANICAL ENLARGED PLANS

Scale

1/2" = 1'-0"

M2.00.IT

IMEG 8000 E PRIMA CENTER PARKWAY
SUITE 100
SCOTTSDALE, AZ 85258
P: 602.963.9400
www.imegcorp.com

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REF. SCALE IN INCHES PROJECT #2200173.01



Project Information
 Energy Code: 2018 IECC
 Project Title: US Vets IDF Package
 Location: Phoenix, Arizona
 Climate Zone: 2b
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
 Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 SS-1 (Single Zone):
 Cooling: 1 each - Split System, Capacity = 11 kBtu/h, Air-Cooled Condenser, Unknown Economizer
 Proposed Efficiency = 21.50 SEER, Required Efficiency = 13.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: Fan 1 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
 Fans:
 FAN 1 Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 85.0 fan efficiency grade, 90.0 total fan efficiency, 87.0 design fan efficiency, fan exception: Single fan <= 5HP

Mechanical Compliance Statement

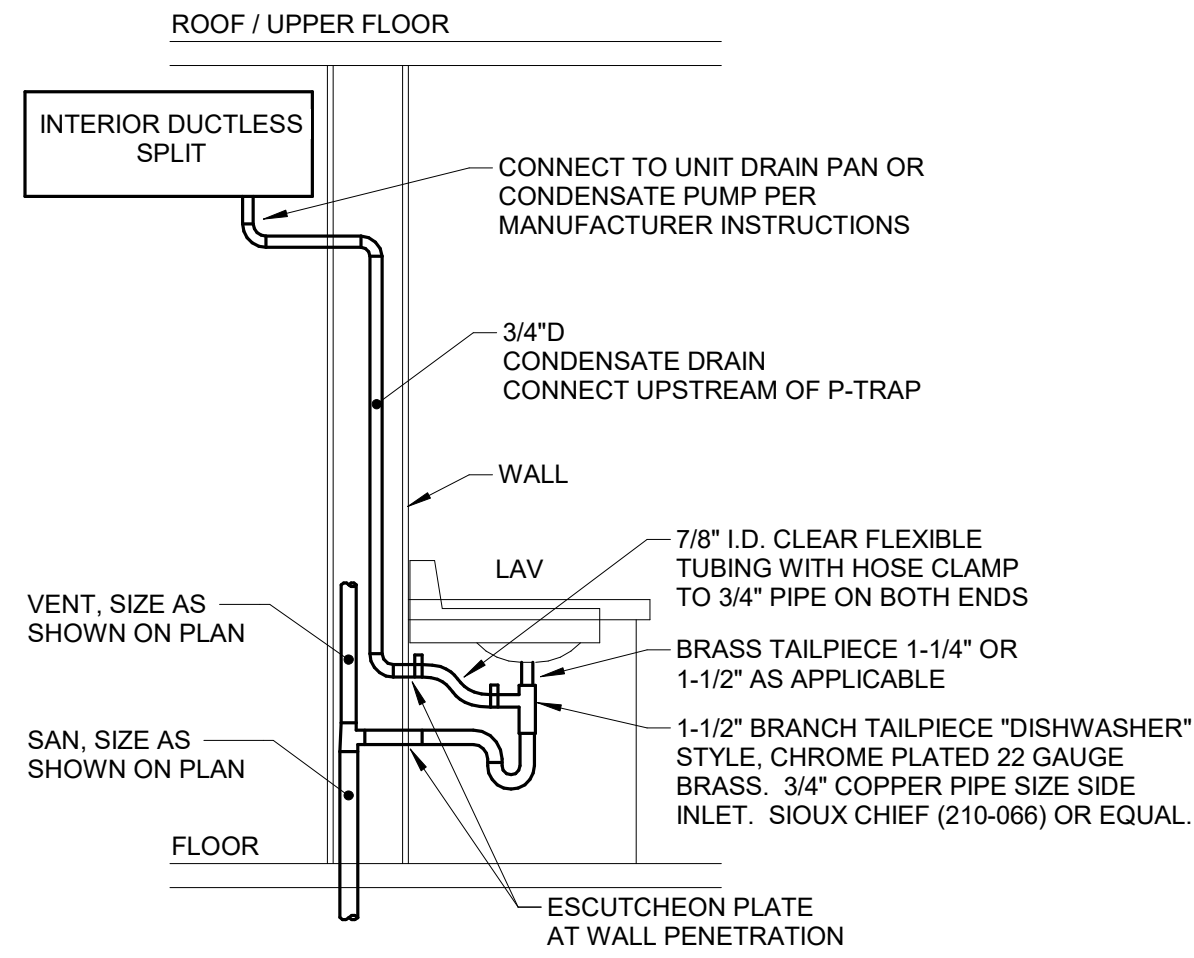
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: US Vets IDF Package Report date: 05/28/24
 Data filename: _____ Page 4 of 12

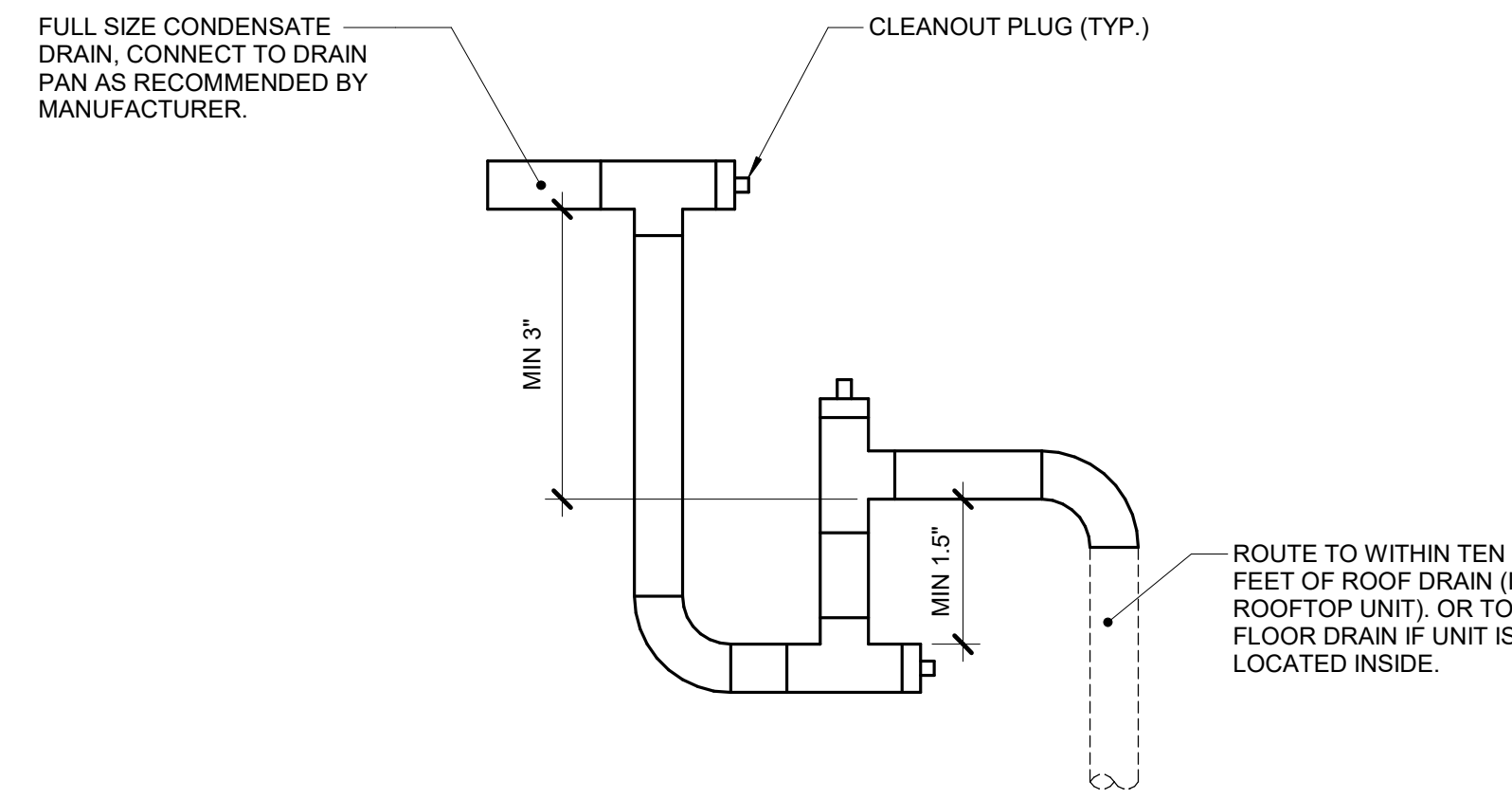
IDF SPLIT SYSTEM UNIT SCHEDULE

NOTES:
 1. UNIT SHALL BE PROVIDED WITH INTEGRAL LIFT/PUMP FOR CONDENSATE REMOVAL. IF NOT PROVIDED INTEGRAL WITH UNIT, CONTRACTOR SHALL PROVIDE SEPARATE CONDENSATE PUMP. CONDENSATE PUMP SHALL BE POWERED BY UNIT. IF NOT, MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR CONDENSATE PUMP.
 2. PROVIDE WITH MANUFACTURER'S 7-DAY PROGRAMMABLE THERMOSTAT.
 3. COOLING ONLY UNIT.
 4. SINGLE POINT CONNECTION: OUTDOOR UNIT POWERS INDOOR UNIT.
 5. PROVIDE LOW AMBIENT KIT.
 6. PROVIDE HAIL GUARDS.
 7. PROVIDE WIND BAFFLE.
 8. ROUTE 3/4" CONDENSATE DRAIN PIPING WITH INSULATION DOWN ALONG WALL AND TERMINATE AT LAVATORY SINK OR OTHER ACCEPTABLE PLUMBING EQUIPMENT WITH MINIMUM 1" AIR GAP.

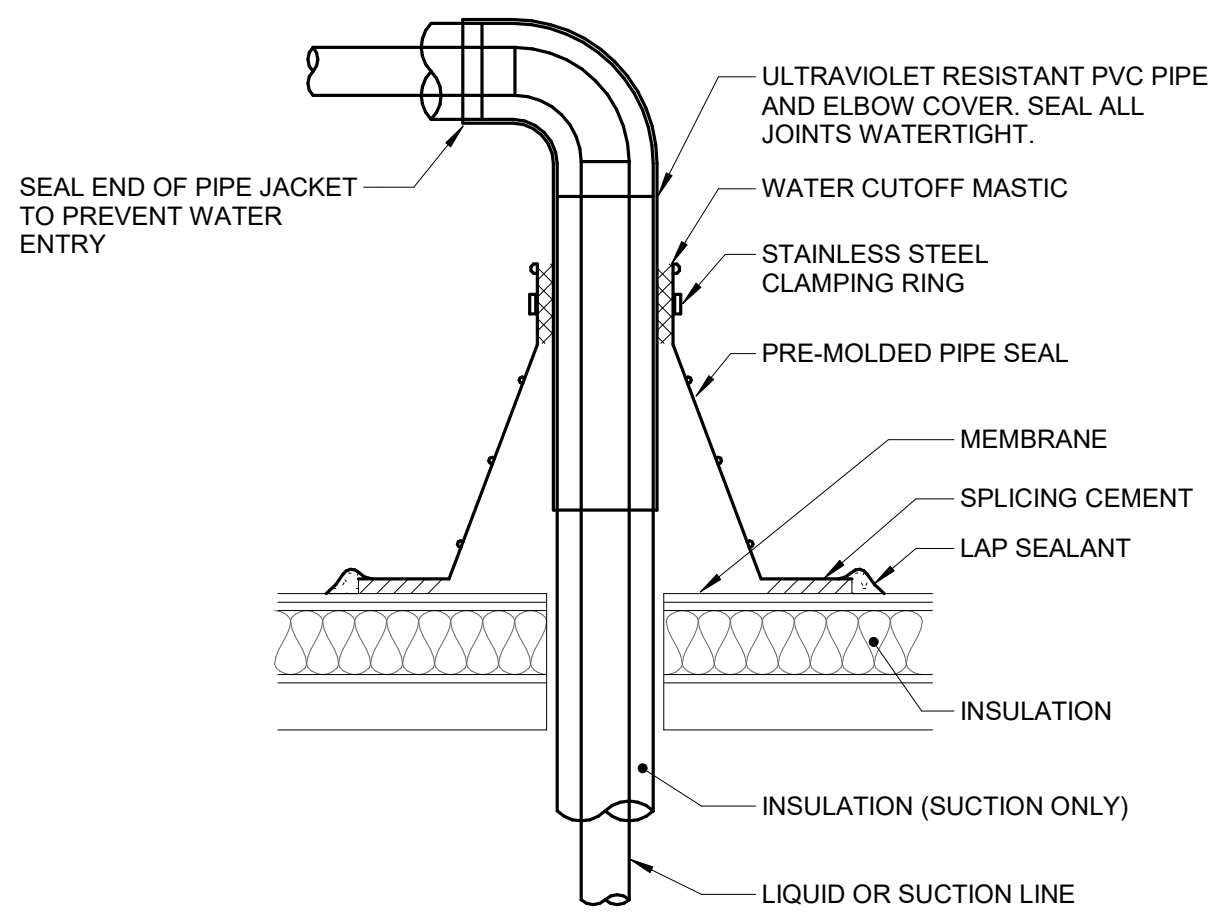
TAG NAME	AREA SERVED	CFM	DESIGN COOLING MBH	INDOOR UNIT			WEIGHT (LB.)	MODEL	SEER	OUTDOOR UNIT			WEIGHT (LB.)	MODEL	VOLTAGE	PHASE	MCA	MOCF	DISCONNECT		MANUFACTURER
				LENGTH	WIDTH	HEIGHT				LENGTH	WIDTH	HEIGHT							BY (NOTE A)	TYPE (NOTE B)	
SS-1	IDF	400	5	8.716	35	11.94	23.4	RNS12ABT	21.5	1'-9 9/16"	11 1/4"	2'-7 1/8"	70	RNS12VBT	208	1	13.0	20	EC	F	SAMSUNG



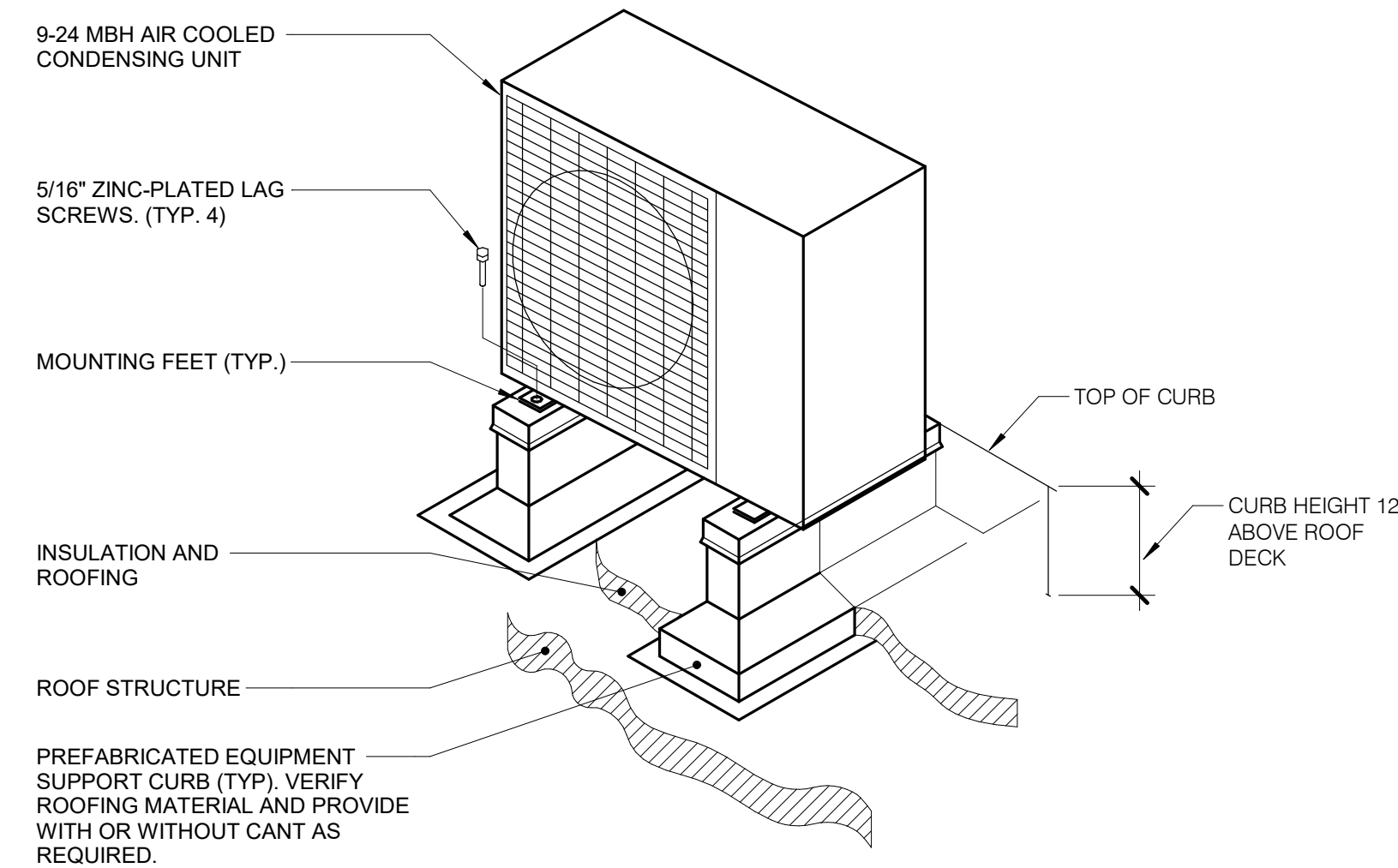
1 CONDENSATE DRAIN TO LAVATORY
NO SCALE



2 CONDENSATE TRAP - DRAW THROUGH COIL
NO SCALE



3 ROOF PENETRATION - INSULATED PIPE
NO SCALE



4 ROOF SUPPORT - EQUIPMENT RAIL
NO SCALE

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
 MFR = MANUFACTURER
 EC = ELECTRICAL CONTRACTOR
 MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
 MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR
 TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
 CB = CIRCUIT BREAKER
 F = FUSED
 NF = NON-FUSED
 PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:
 FV = FULL VOLTAGE
 WYE = WYE-DELTA
 SS = SOLID STATE (SOFT START)
 MS = MANUAL STARTER
 VFD = VARIABLE FREQUENCY DRIVE
 VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
 YD = WYE - DELTA
 ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
 MFR = STANDARD CURB BY MANUFACTURER
 GC = BY GENERAL CONTRACTOR
 SAC = SOUND ATTENUATOR CURB

US VETS
 12027 N 28TH DRIVE
 PHOENIX, A 85029

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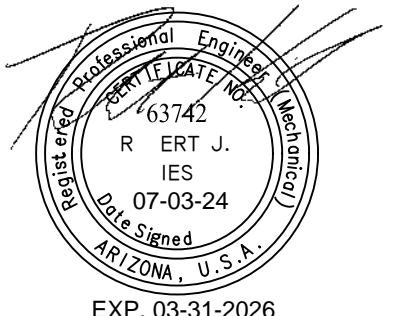
Gensler
 Patrick Magness
 2575 E Camelback Rd
 Suite 175
 Phoenix, AZ 85016
 United States
 Tel: 602-523-4900
 Fax: 602-523-4949

Date	Description
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KIVA #
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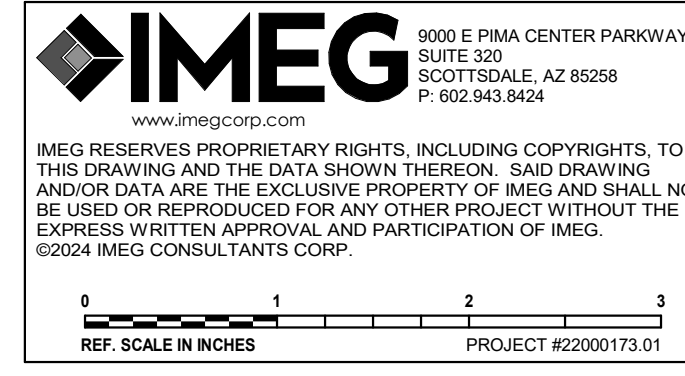
Project Name
 ARPA U. S. Vets Miscellaneous Repairs & Improvements

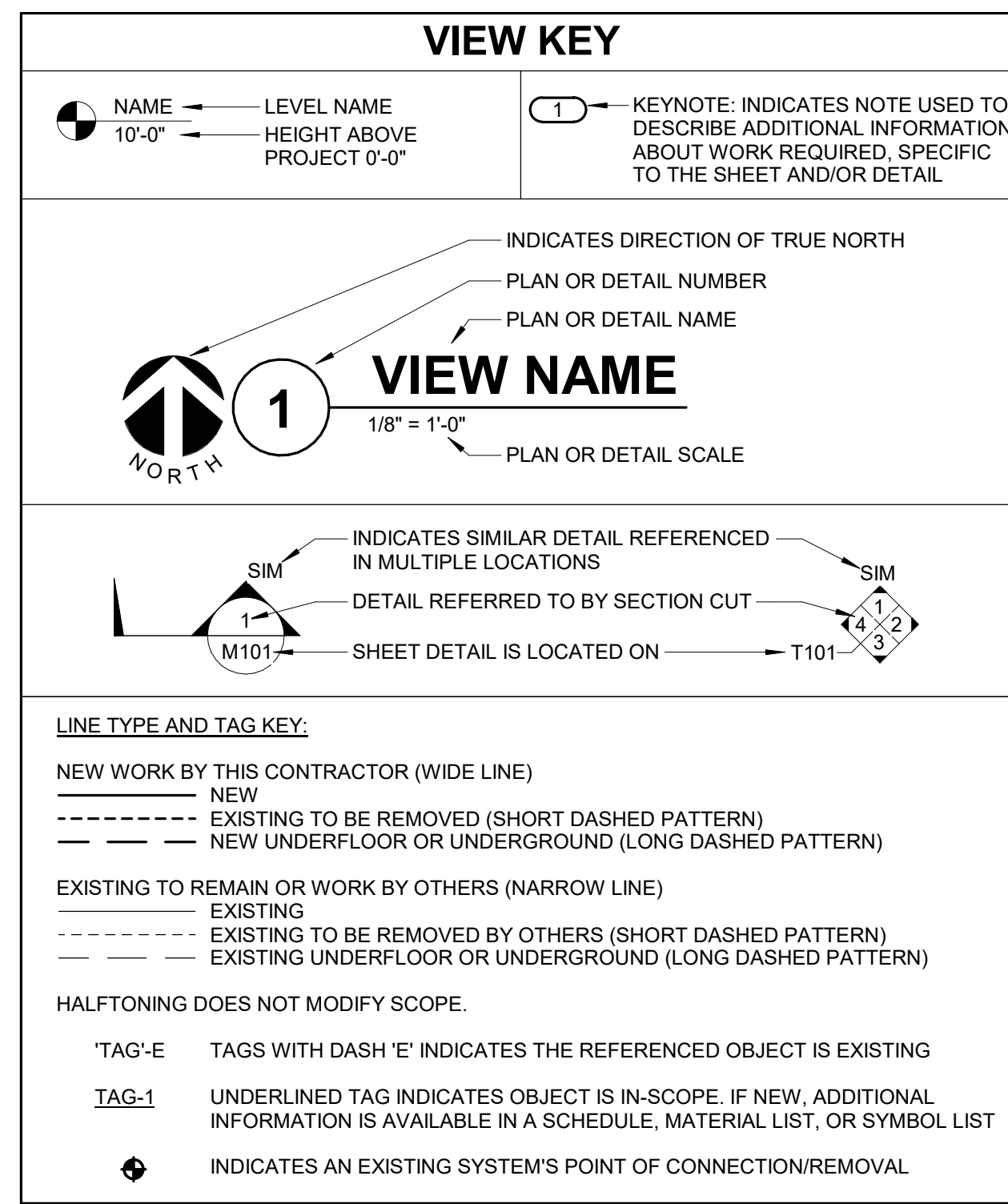
Project Number
 057.8221.100

Description
 MECHANICAL SCHEDULES

Scale
 12" = 1'-0"

M4.00.IT





ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	GB	26 05 26	GROUND BUS
	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	PANEL-###	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL-###	26 24 16	PANELBOARD - SURFACE MOUNT
	TR-#/DTR-#	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT SWITCH FUSED DISCONNECT SWITCH REFER TO DISC/STA SCHEDULE
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
	SW-1P	26 09 33	SWITCH - SINGLE POLE

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
CT-#	CABLE TRAY	26 05 36
DP-#	DISTRIBUTION PANEL	26 24 16
DTR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE	26 12 19

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
- NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
- CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
- WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
- REFER TO **CONSTRUCTION MANAGER'S/GENERAL CONTRACTOR'S/ARCHITECT'S** INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
ITR	IT RACK MOUNTED RECEPTACLE
NEMA #	NEMA RATING
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	IFC 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2018
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- EMERGENCY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90° ABOVE FINISHED FLOOR OR BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

"F" LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
O	WIRING DEVICE, OCCUPANCY CONTROLLED
R	MOUNT IN SURFACE RACEWAY
S	SURFACE MOUNTED
W	WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION NAME	REVISION DATE
E0.00.CE	ELECTRICAL COVERSHEET			
E0.02.CE	ELECTRICAL SPECIFICATIONS			
E2.01.CE	ELECTRICAL ENLARGED PLANS			
E4.01.CE	ELECTRICAL ONE-LINE & SCHEDULES			
GRAND TOTAL: 4				

US VETS
12027 N 28TH DRIVE
PHOENIX, A 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

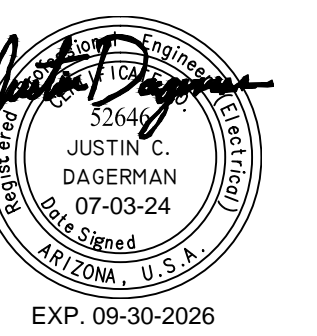
Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States
Tel: 602-523-4900
Fax: 602-523-4949

△ Date Description

KIVA #

SDEV #

Note:
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Seal / Signature

Project Name

ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number

057.8221.100

Description

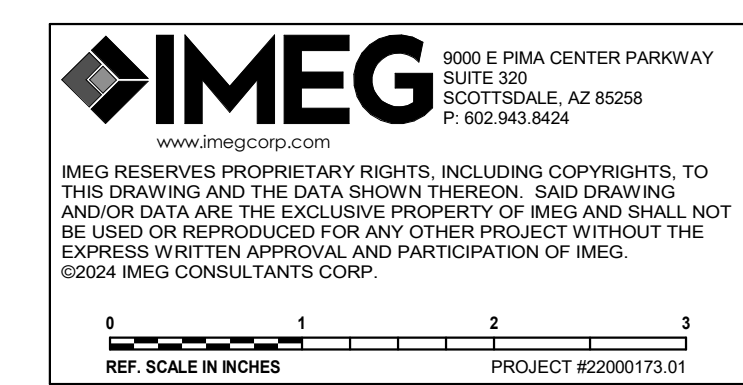
ELECTRICAL COVERSHEET

Scale

As indicated

E0.00.CE

SHEET 31 OF 48



REF. SCALE IN INCHES PROJECT #22000173.01

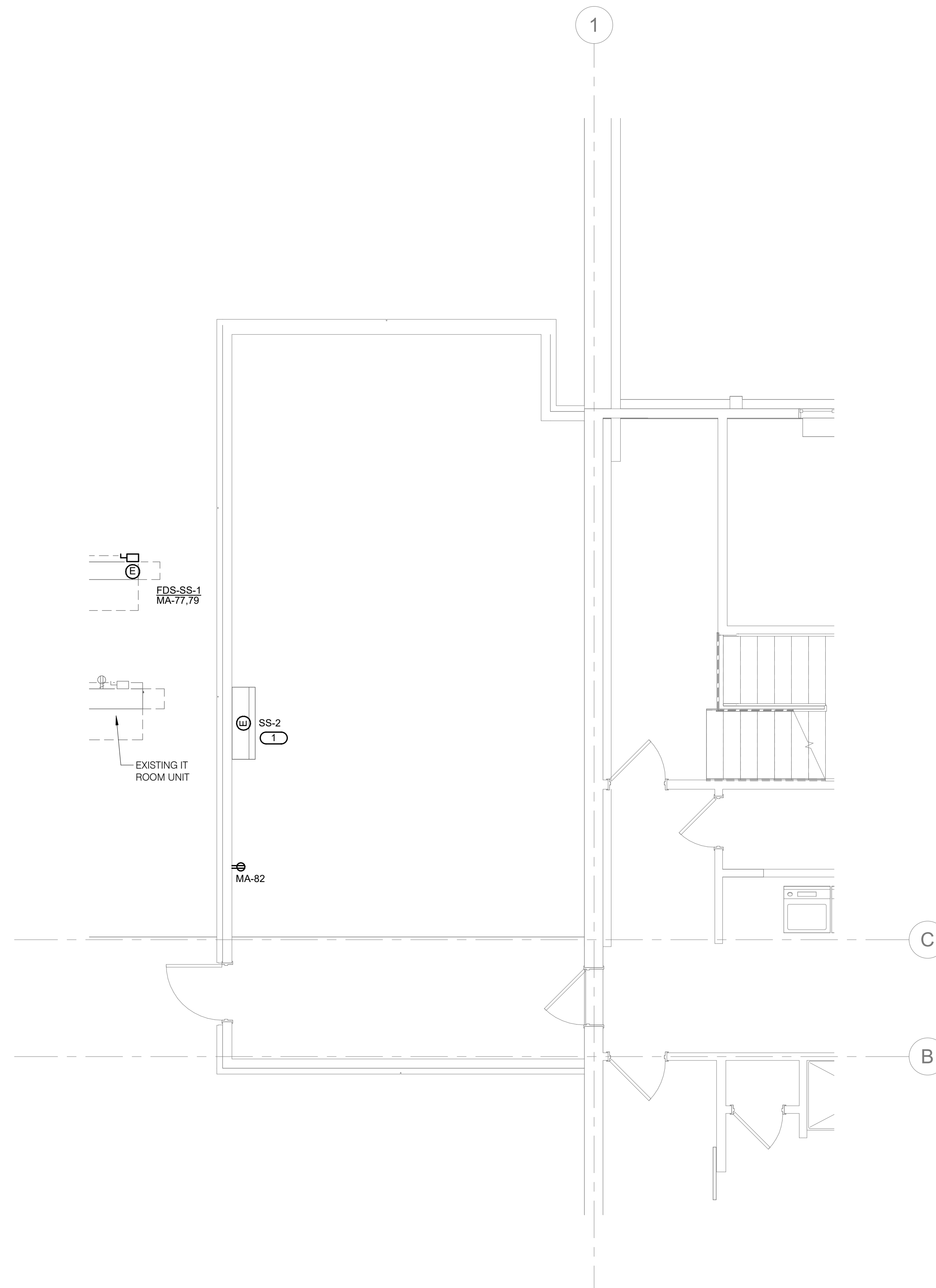
KEYNOTES: (#)
 1. INDOOR UNIT POWERED FROM OUTDOOR UNIT. DISCONNECT PROVIDE BY MANUFACTURER.

US VETS
 12027 N 28TH DRIVE
 PHOENIX, A 85029

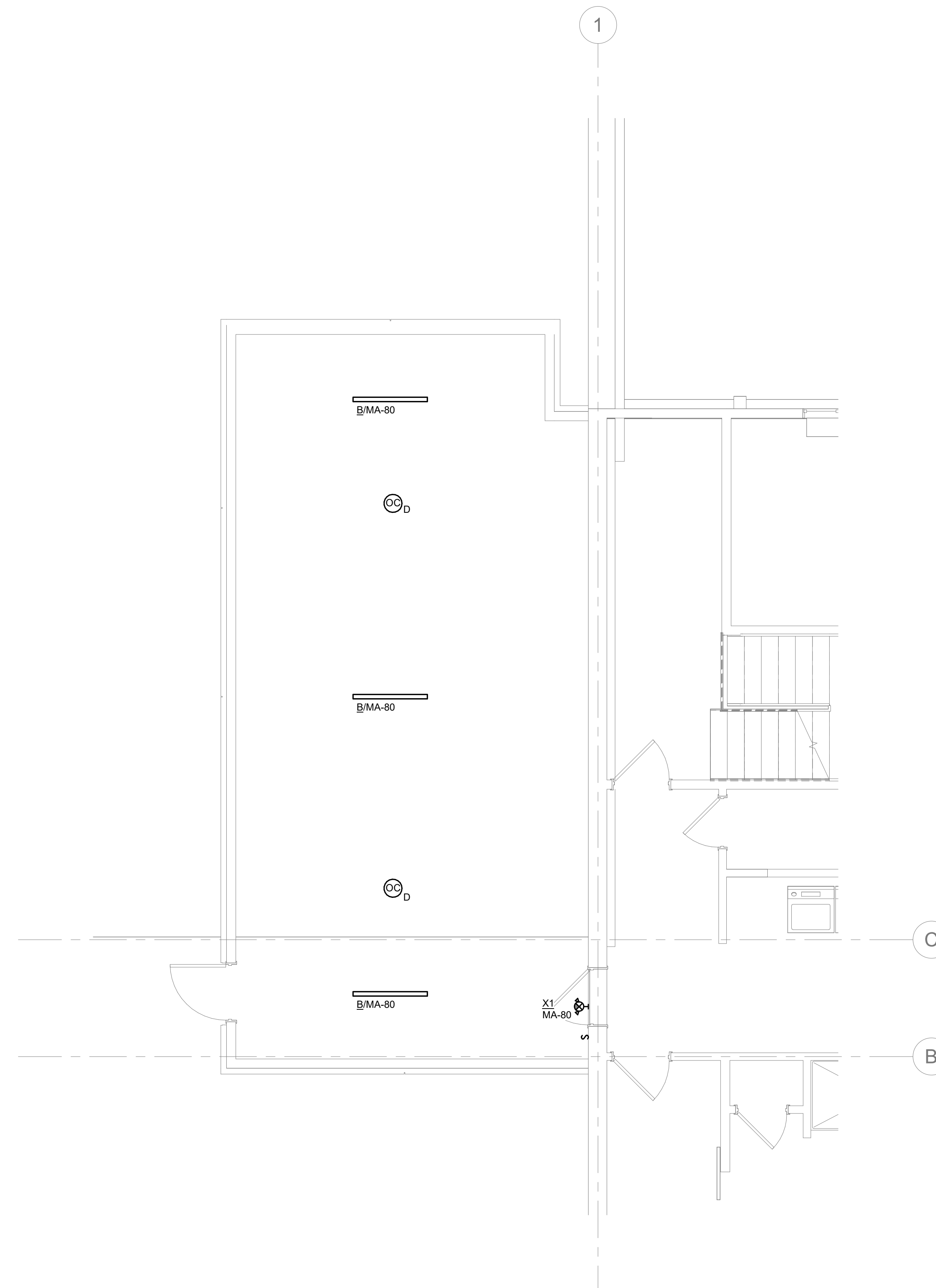
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1 CONDUIT ENCLOSURE PLAN - POWER
 1/4" = 1'-0"

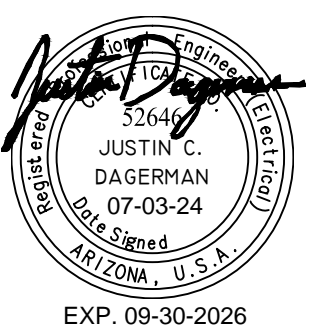


2 CONDUIT ENCLOSURE PLAN - LIGHTING
 1/4" = 1'-0"

Date	Description
------	-------------

KIVA #
 SDEV #

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Seal / Signature

Project Name
 ARPA U. S. Vets Miscellaneous Repairs & Improvements
Project Number
 057.8221.100
Description
 ELECTRICAL ENLARGED PLANS

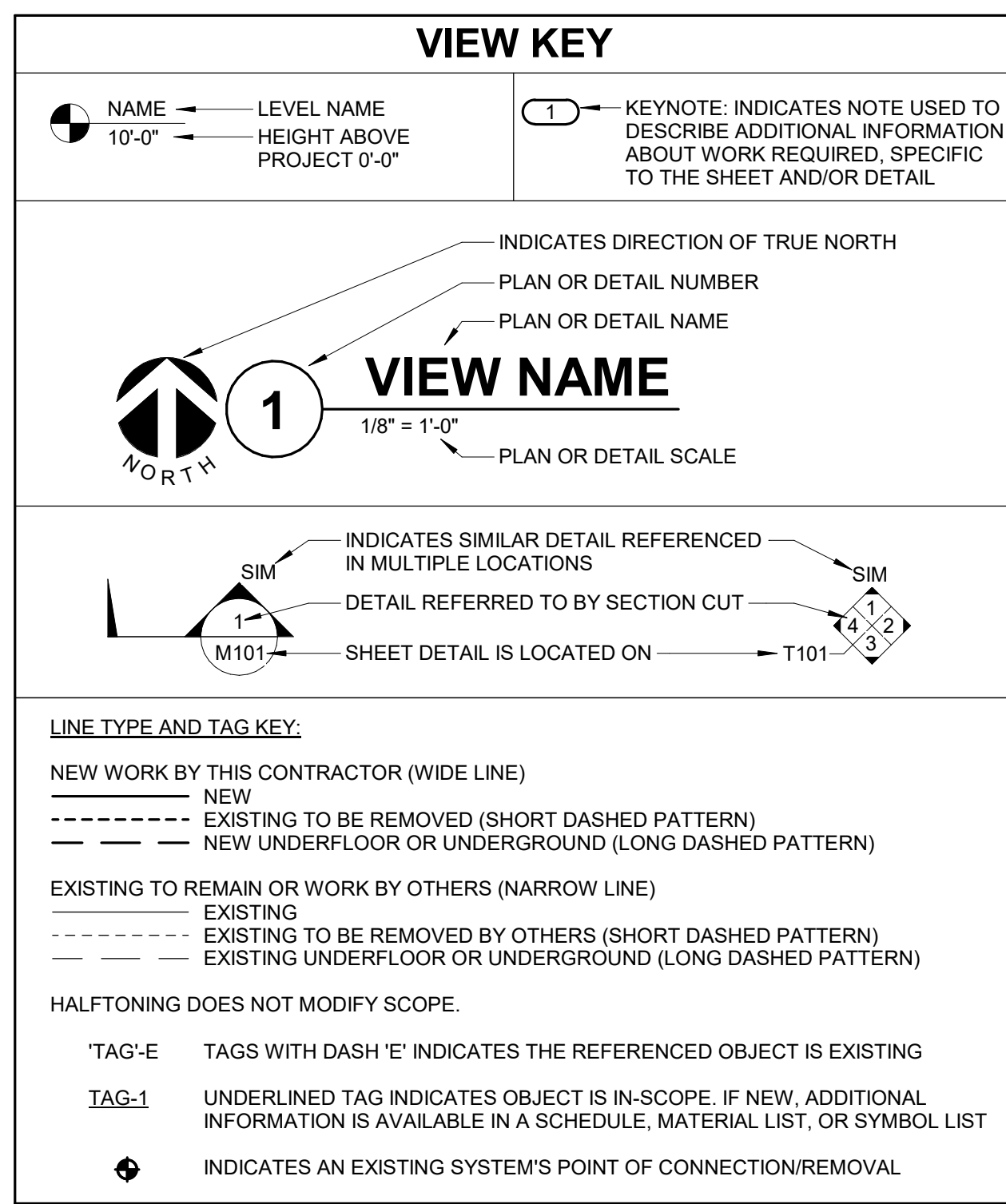
Scale
 1/4" = 1'-0"

E2.01.CE

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REF. SCALE IN INCHES PROJECT #22000173.01



ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	GB	26 05 26	GROUND BUS
	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	PANEL ###	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL ###	26 24 16	PANELBOARD - SURFACE MOUNT
	TR-#/DTR-#	26 22 00	TRANSFORMER REFER TO TRANSFORMER SCHEDULE
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT SWITCH FUSED DISCONNECT SWITCH REFER TO DISCSTA SCHEDULE
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	SW-OC-P-Q	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
	SW-1P	26 09 33	SWITCH - SINGLE POLE

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
CT-#	CABLE TRAY	26 05 36
DP-#	DISTRIBUTION PANEL	26 24 16
DTR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE	26 12 19

ELECTRICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
 - NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
 - CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
 - WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
 - REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
 - REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
 - PROVIDE TEMPORARY LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
ITR	IT RACK MOUNTED RECEPTACLE
NEMA #	NEMA RATING
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	IFC 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2018
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR SEPARATE RACEWAY. THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- EMERGENCY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT -20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR IF BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, OR EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:
 # = MOUNTING (IF APPLICABLE)
 1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
O	WIRING DEVICE, OCCUPANCY CONTROLLED
R	MOUNT IN SURFACE RACEWAY
S	SURFACE MOUNTED
W	WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION NAME	REVISION DATE
E0.00.IT	ELECTRICAL COVERSHEET			
E0.01.IT	ELECTRICAL SPECIFICATIONS			
E2.00.IT	ELECTRICAL ENLARGED PLANS			
E4.00.IT	ELECTRICAL ONE-LINE & SCHEDULES			
GRAND TOTAL: 4				

US VETS
 12027 N 28TH DRIVE
 PHOENIX, A 85029

CITY OF PHOENIX
 OFFICE OF THE CITY ENGINEER
 HOUSING DEPARTMENT
 Project Number: AH10010002

Gensler

Patrick Magness
 2575 E Camelback Rd
 Suite 175
 Phoenix, AZ 85016
 United States

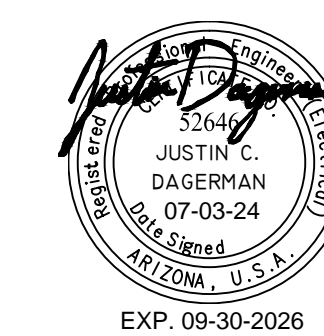
Tel: 602.523.4900
 Fax: 602.523.4949

△ Date Description

KIVA #

SDEV #

Note:
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Seal / Signature

Project Name

ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number

057.8221.100

Description

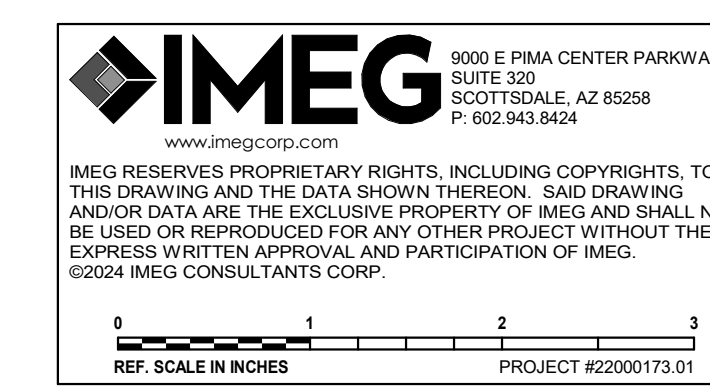
ELECTRICAL COVERSHEET

Scale

As indicated

E0.00.IT

SHEET 35 OF 48



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0 1 2 3
 REF. SCALE IN INCHES PROJECT #2200173.01

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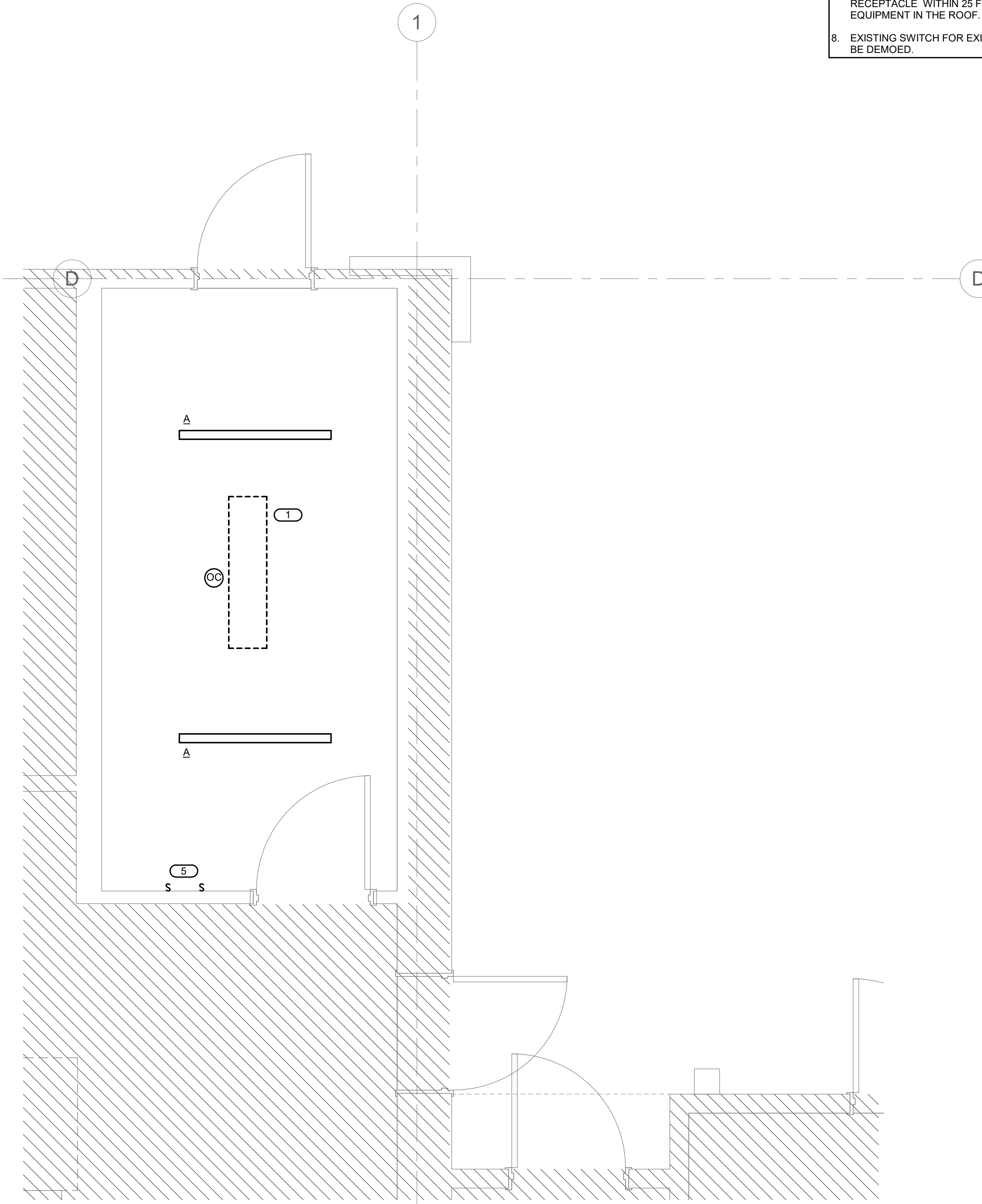
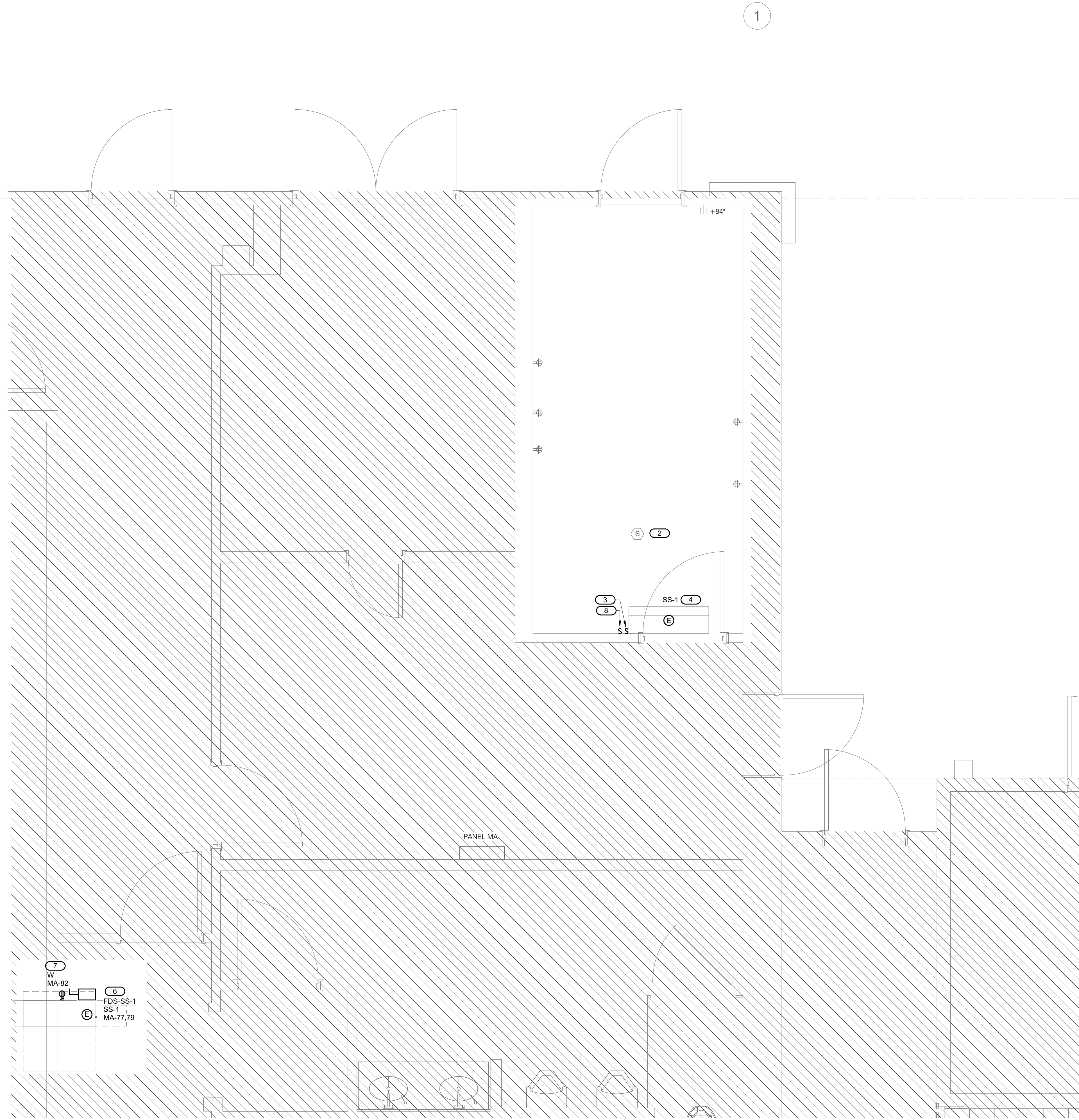
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Project Number: AH10010002

Gensler

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Fax: 602.523.4949

- KEYNOTES:**
- EXISTING CIRCUIT IS TO BE REUSED FOR NEW LIGHTING FIXTURES. DEMOED FLORESCENT LOAD EXCEED ADDED NEW LOAD.
 - REMOVE AND PUT BACK EXITING SMOKE DETECTOR IN PLACE AFTER NEW CEILING IS INSTALLED. EXTEND AND CONNECT WIRING AS NEEDED.
 - NEW MOTOR RATED SWITCH. 15A, 240V WITH THERMAL OVERLOAD.
 - INDOOR UNIT TO BE FED FROM OUTDOOR UNIT.
 - PROVIDE NEW LIGHT SWITCH ADJACENT TO NEW DOOR LOCATION.
 - UNIT TO BE LOCATED ON ROOF. SHOWN HERE FOR REFERENCE ONLY.
 - ROOF RECEPTACLE: PROVIDE WEATHER PROOF GFCI DUPLEX RECEPTACLE WITH IN-USECOVER. ELECTRICAL CONTRACTOR TO CONFIRM FINAL LOCATION OF ROOF RECEPTACLE SUCH THAT THERE IS ONE RECEPTACLE WITHIN 55 FEET OF ALL HVAC EQUIPMENT IN THE ROOF.
 - EXISTING SWITCH FOR EXISTING SPLIT UNIT TO BE DEMOED.



2 ENLARGED IDF ROOM - LIGHTING
1/2" = 1'-0"

1 ENLARGED IDF ROOM - POWER
1/2" = 1'-0"

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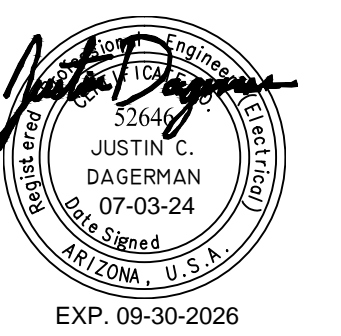
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REF. SCALE IN INCHES PROJECT #22000173.01

Date	Description
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KIVA #
SDEV #

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Seal / Signature

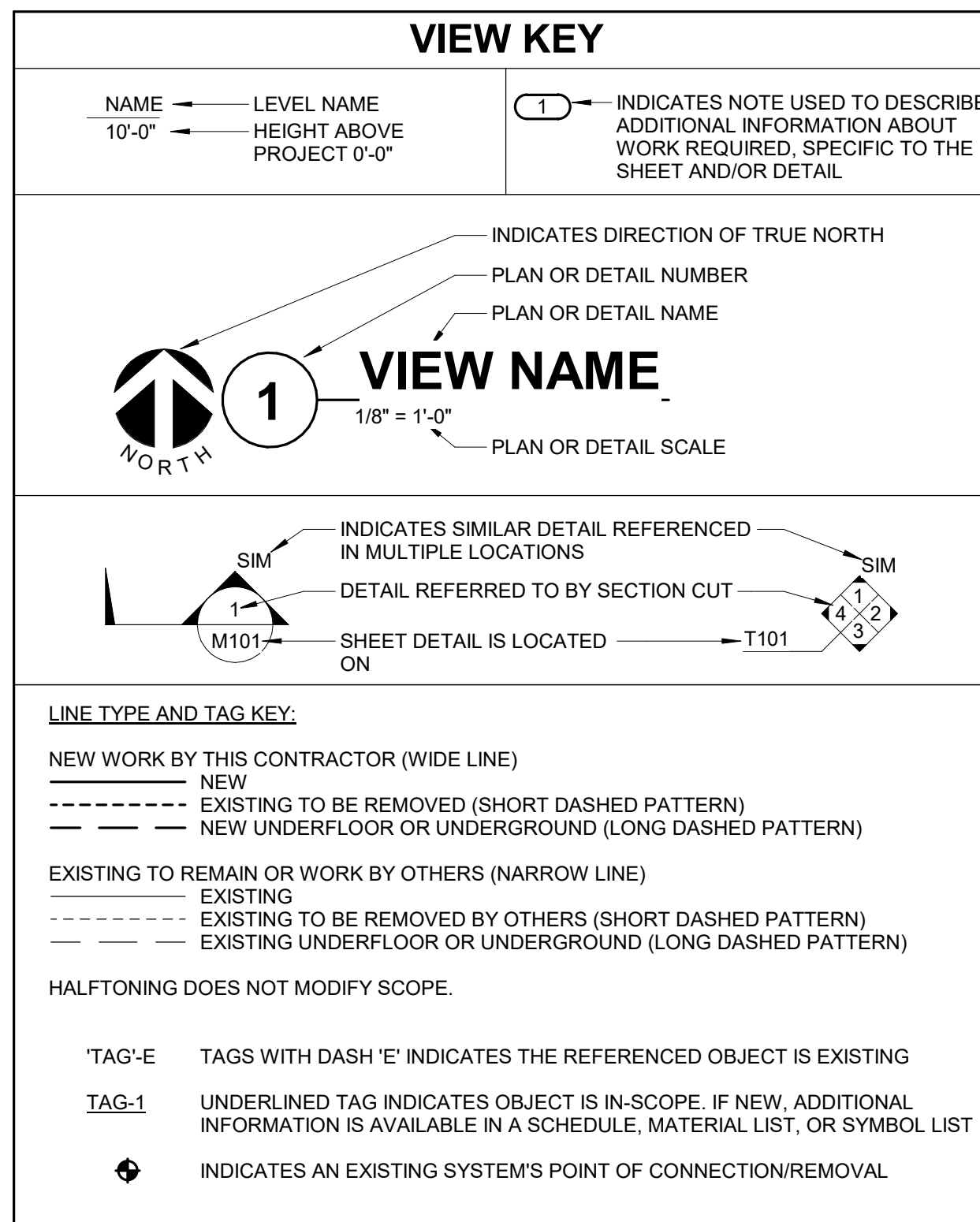
Project Name
ARPA U. S. Vets Miscellaneous Repairs & Improvements

Project Number
057.8221.100

Description
ELECTRICAL ENLARGED PLANS

Scale
1/2" = 1'-0"

E2.00.IT



PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—SAN—	SANITARY DRAINAGE
—SANV—	SANITARY VENT
⊕	POINT OF CONNECTION TO DEMO BACK TO
⊕	POINT OF CONNECTION OF NEW TO EXISTING
→	PIPE CONTINUATION
→	PIPE DOWN
→	PIPE UP OR UP/DOWN
○	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
○	FD

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
CO	CLEANOUT
E	EXISTING
FCO	FLOOR CLEANOUT
LAV	LAVATORY
SH	SHOWER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT

PLUMBING SHEET INDEX

P 0.01	PLUMBING COVERSHEET.
P 1.01	PLUMBING SITE PLAN.
P 2.01	OVERALL PLUMBING PLAN - LEVEL 01 & 02.
P 2.02	OVERALL PLUMBING PLAN - LEVEL 03 & 04.
P 3.01	ENLARGED WASTE PIPING PLAN - UNDERSLAB - LEVEL 01
P 4.01	ENLARGED PLUMBING PLAN - TYPE A, B, C, I & H.
P 4.02	ENLARGED PLUMBING PLAN - TYPE D & D.1
P 4.03	ENLARGED PLUMBING PLAN - TYPE D.2, G, & LAUNDRY ROOM
P 5.01	PLUMBING DETAILS.
P 5.02	PLUMBING ISOMETRIC DIAGRAMS.
GRAND TOTAL: 10	

PLUMBING PHASING NOTES:

PHASE 1: SITE SANITARY SEWER MAIN, BUILDING UNDERSLAB WASTE MAIN AND UNDERSLAB WASTE STACK LATERALS.

PHASE 2: WASTE AND VENT STACKS SERVING LEVEL 01 THROUGH LEVEL 04 AND VENT STACKS UP THROUGH ROOF.

PHASE 3: LEVEL 04 RESIDENT ROOMS WASTE AND VENT REPLACEMENT. RESIDENT ROOM ON LEVEL 04 MADE READY FOR MOVE-IN.

PHASE 4: LEVEL 03 RESIDENT ROOMS WASTE AND VENT REPLACEMENT. RESIDENT ROOM ON LEVEL 03 MADE READY FOR MOVE-IN.

PHASE 5: LEVEL 02 RESIDENT ROOMS WASTE AND VENT REPLACEMENT. RESIDENT ROOM ON LEVEL 02 MADE READY FOR MOVE-IN.

PHASE 6: LEVEL 01 RESIDENT ROOMS WASTE AND VENT REPLACEMENT. RESIDENT ROOM ON LEVEL 01 MADE READY FOR MOVE-IN.

PLUMBING FIXTURE ROUGH-IN SCHEDULE (WASTE AND VENT)

TAG NAME	DESCRIPTION	SANITARY	VENT
BT/SH	BATHTUB / SHOWER	2"	1 1/2"
FD	SHOWER (FLOOR DRAIN)	2"	1 1/2"
FD	FLOOR DRAIN	2"	1 1/2"
LAV	LAVATORY	2"	1 1/2"
SK	SINK (BAR)	2"	1 1/2"
WB	UTILITY BOX (WASHING MACHINE)	2"	1 1/4"
WC	WATER CLOSET	4"	2"

NOTES:

1. PROVIDE MISSING PLUMBING FIXTURES AT THE FOLLOWING RESIDENT ROOM LOCATIONS, COORDINATE WITH OWNER FOR MFR. AND MODEL NUMBER IN ORDER TO MATCH EXISTING.

FLOOR 1
 WC, UNIT # 117, 118, 119, 120, & 124
 LAV WITH TRIM AND VANITY, UNIT # 117, 118, 119, & 124
 SH TRIM, UNIT # 117, 118, 119, 120, & 124
 SK WITH TRIM, UNIT # 117, 118, 119, 120, & 124

FLOOR 2
 WC, UNIT # 217
 LAV WITH TRIM AND VANITY, UNIT # 223 & 228
 SH TRIM, UNIT # 223 & 228
 SK WITH TRIM, UNIT # 223 & 228

FLOOR 3
 WC, UNIT # 323
 LAV WITH TRIM AND VANITY, UNIT # 323 & 325
 SH TRIM, UNIT # 323
 SK WITH TRIM, UNIT # 323, 325 & 328

FLOOR 4
 WC, UNIT #423
 LAV WITH TRIM AND VANITY, UNIT # N/A
 SH TRIM, UNIT # N/A
 SK WITH TRIM, UNIT # 425

2. REMOVE AND REPLACE ALL ANGLE STOPS AT RESIDENT ROOM WATER CLOSETS, LAVATORIES AND SINKS. PROVIDE NEW ANGLE STOP AS ALL BRASS, 1/4 TURN, CHROME PLATED, APOLLO, MCGUIRE, CHICAGO OR EQUAL.

US VETS

12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

Patrick Magness
2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States

Tel: 602.523.4900
Fax: 602.523.4949

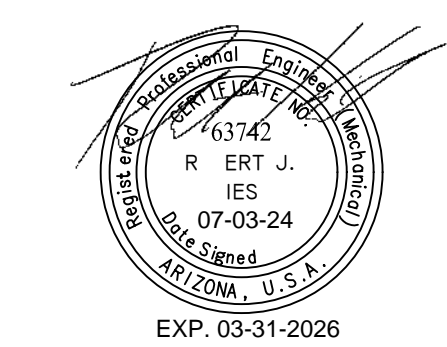
△ Date	Description

KIVA #

SDEV #

Note:
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Seal / Signature



Project Name
ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number
57.8221.000

Description
PLUMBING COVERSHEET.

Scale
As indicated

P 0.01

8000 E PRIMA CENTER PARKWAY
SUITE 100
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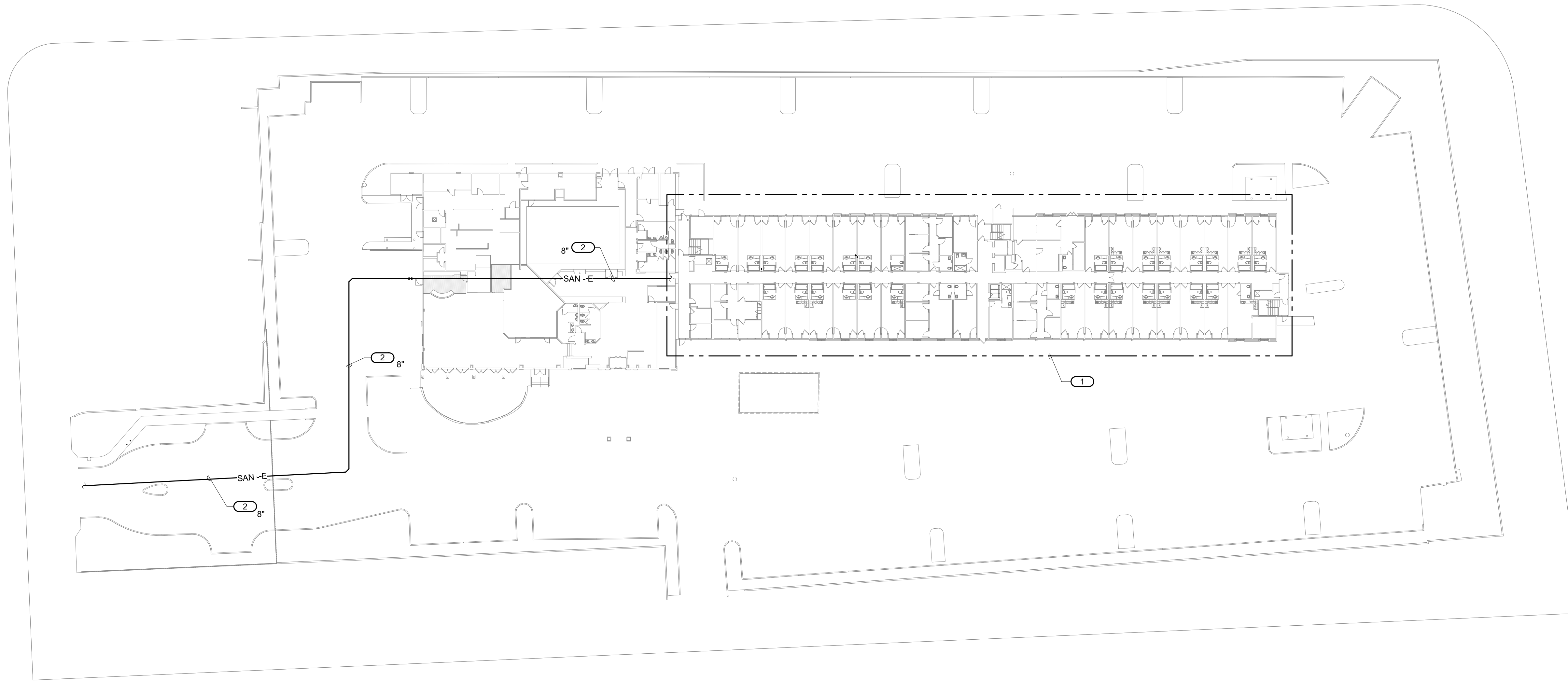
REF. SCALE IN INCHES PROJECT #2402228.01

PLUMBING GENERAL NOTES:

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KEYNOTES: (#)

1. SCOPE OF WORK AREA FOR RE-PIPE AND LINING OF WASTE AND VENT SYSTEM. REFER TO ENLARGED SCALE PLANS FOR ADDITIONAL INFORMATION.
2. WATER JET FLUSH EXISTING SANITARY WASTE MAIN IN BUILDING AND SEWER MAIN OUTSIDE OF BUILDING CLEAN OF DEBRIS UP TO PROPERTY LINE AT POINT OF CONNECTION TO CITY MAIN. CAMERA VIDEO TAPE MAIN PRIOR TO TURN-OVER OF PROJECT AND SUBMIT TO OWNER FOR REVIEW AND SIGNATURE OF ACCEPTANCE OF WORK AS COMPLETE.



1 PLUMBING SITE PLAN -OVERALL.
1/32" = 1'-0"

US VETS
12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

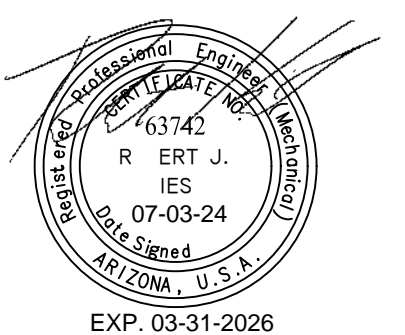
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United States
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Date	Description
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KIVA #
SDEV #

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Seal / Signature



Project Name
ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number
57.8221.000

Description
PLUMBING SITE PLAN.

Scale
As indicated

P 1.01

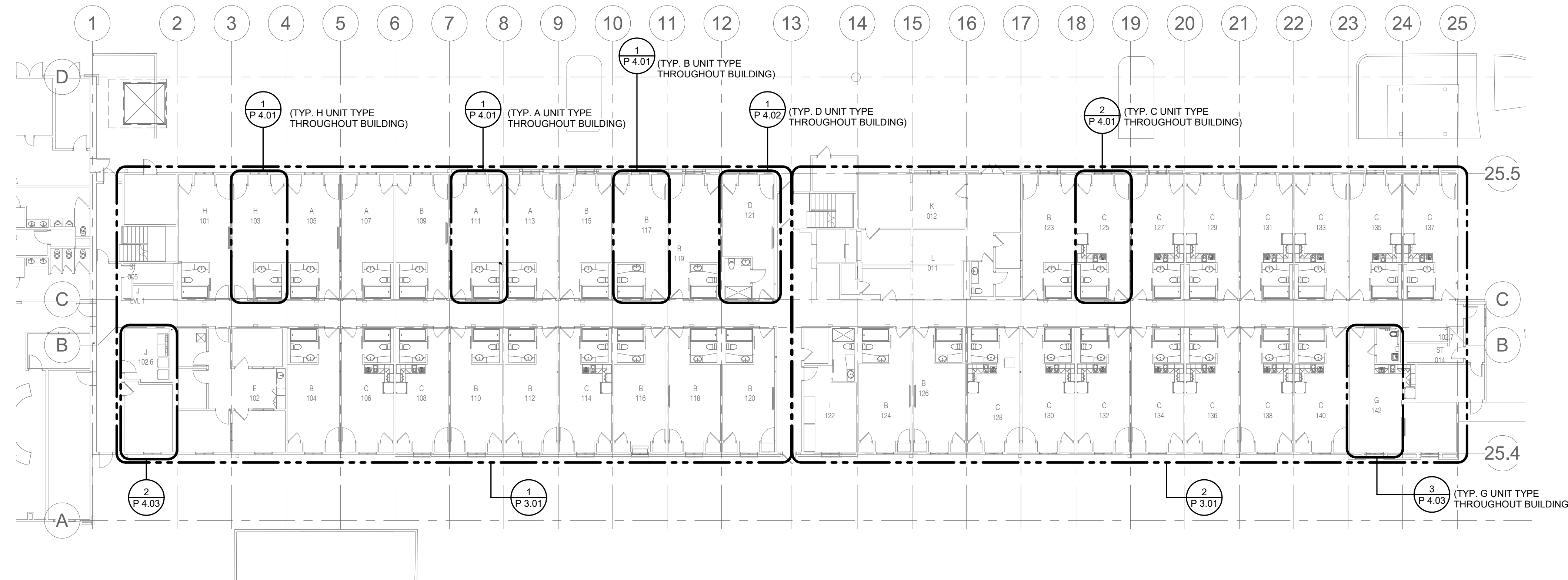
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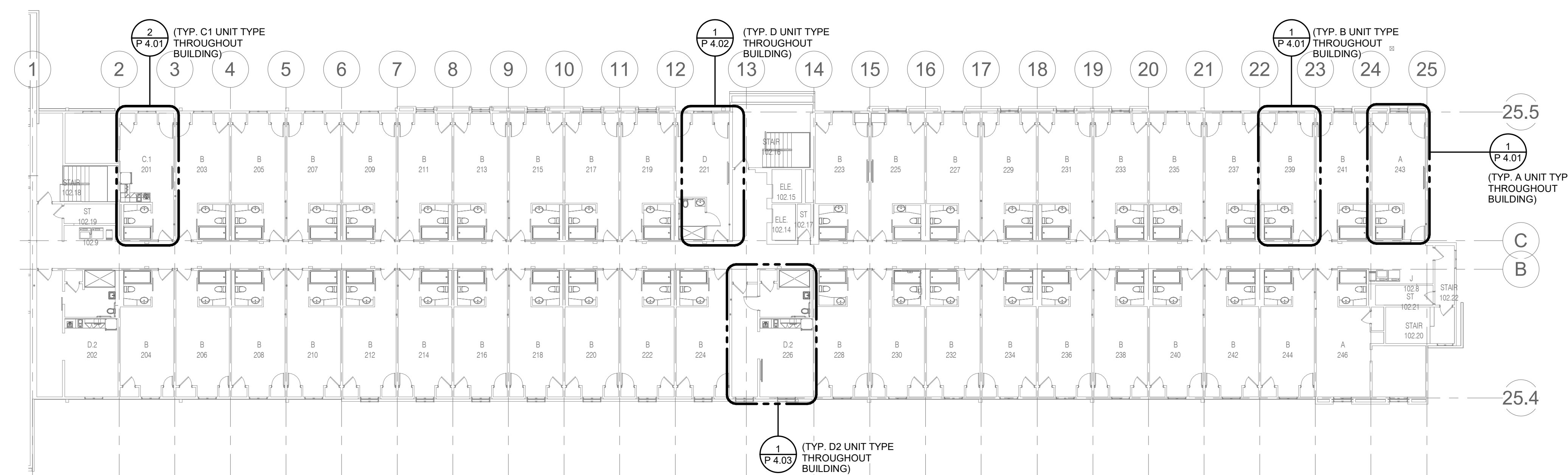
REF. SCALE IN INCHES PROJECT #2402228.01

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1 PLUMBING PLAN - LEVEL 01.
1/16" = 1'-0"



2 PLUMBING PLAN - LEVEL 02.
1/16" = 1'-0"

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12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

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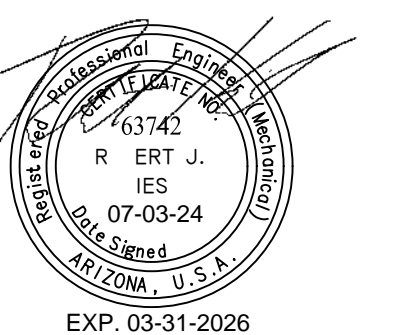
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Project Name
ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number
57.8221.000

Description
OVERALL PLUMBING PLAN - LEVEL 01 & 02.

Scale
As indicated

P 2.01

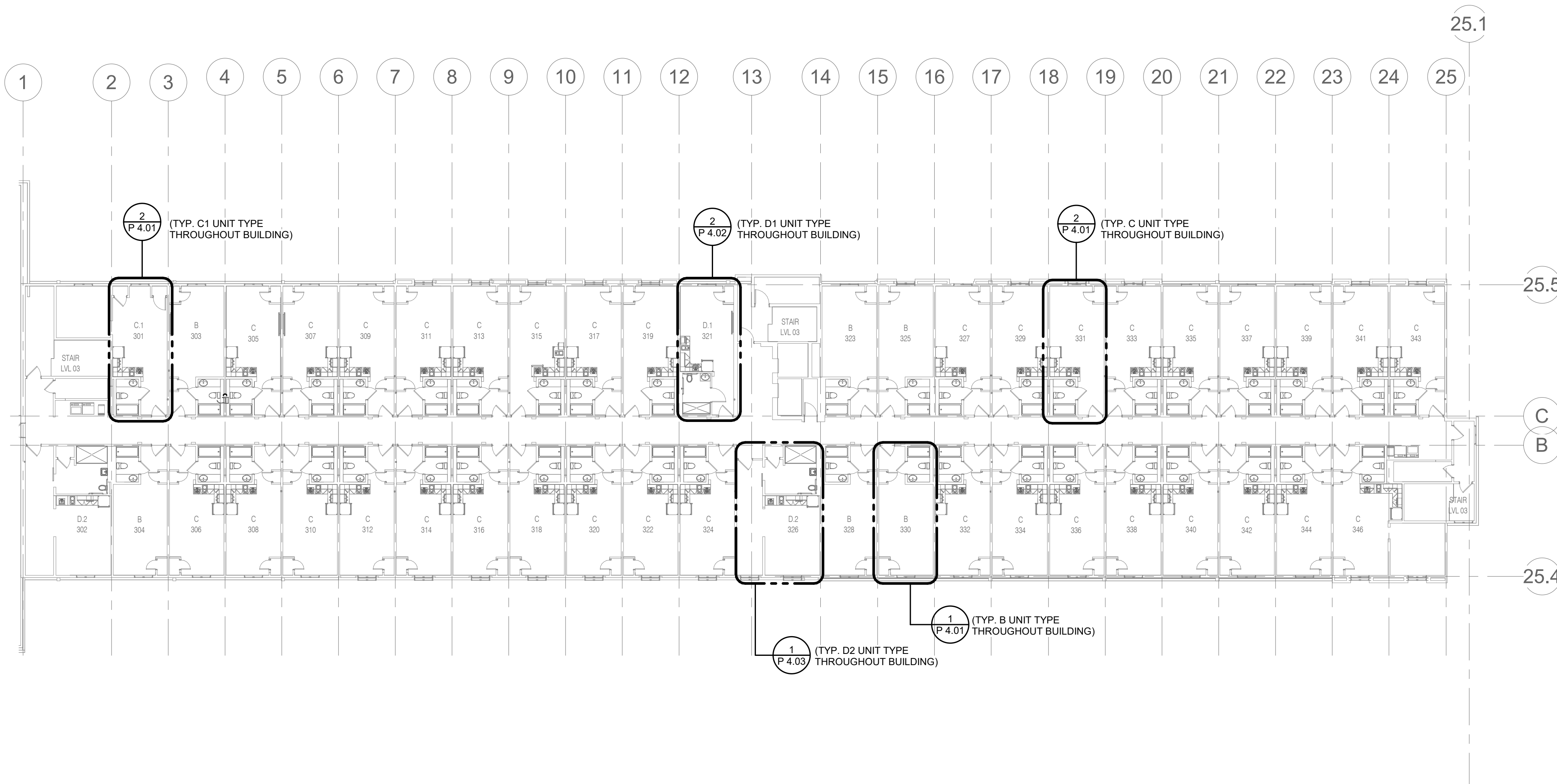
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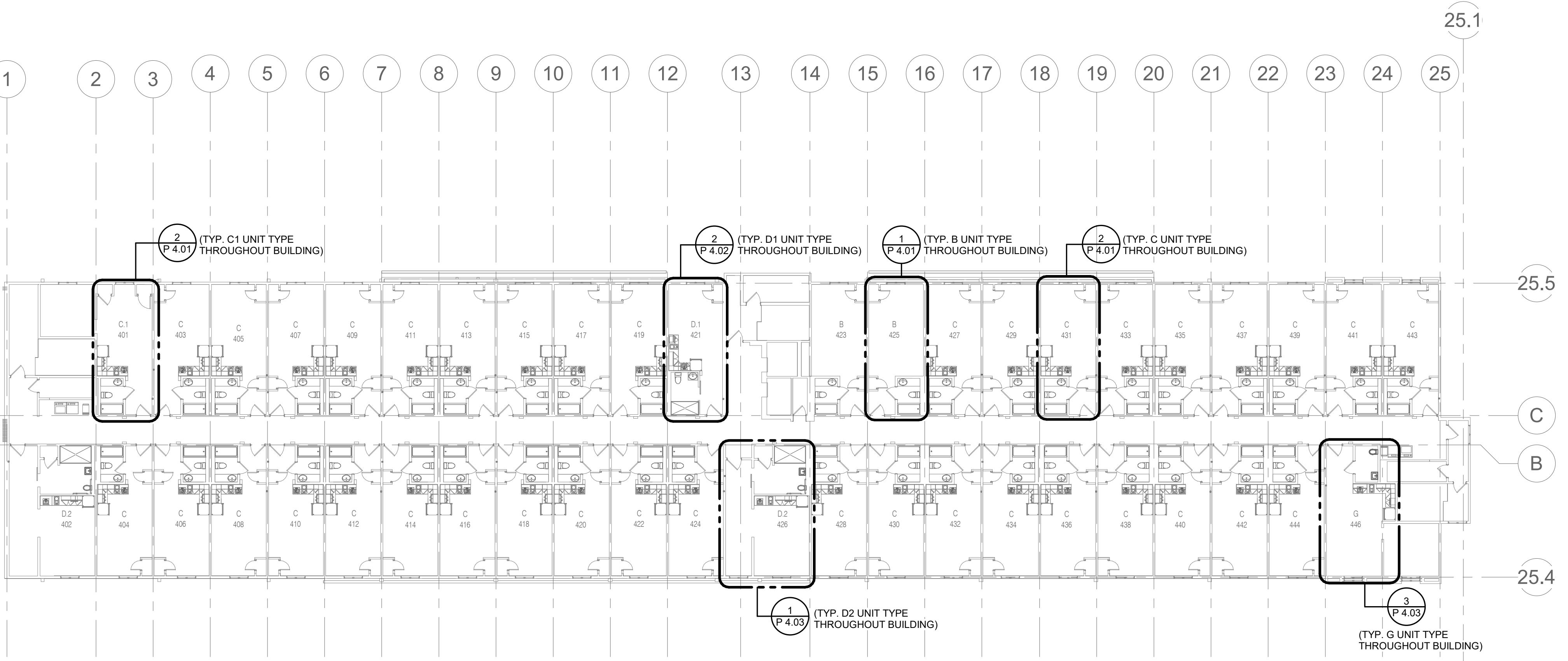
REF. SCALE IN INCHES
PROJECT #2402228.01

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1 PLUMBING PLAN - LEVEL 03.
1/16" = 1'-0"



2 PLUMBING PLAN - LEVEL 04.
1/16" = 1'-0"

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12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

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2575 E Camelback Rd
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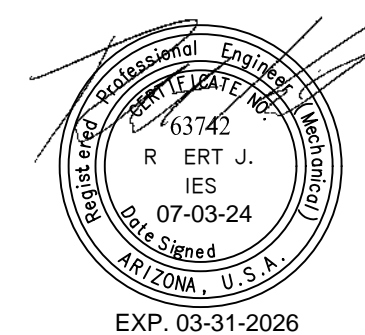
Date	Description
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Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

Description

OVERALL PLUMBING PLAN - LEVEL 03 & 04.

Scale

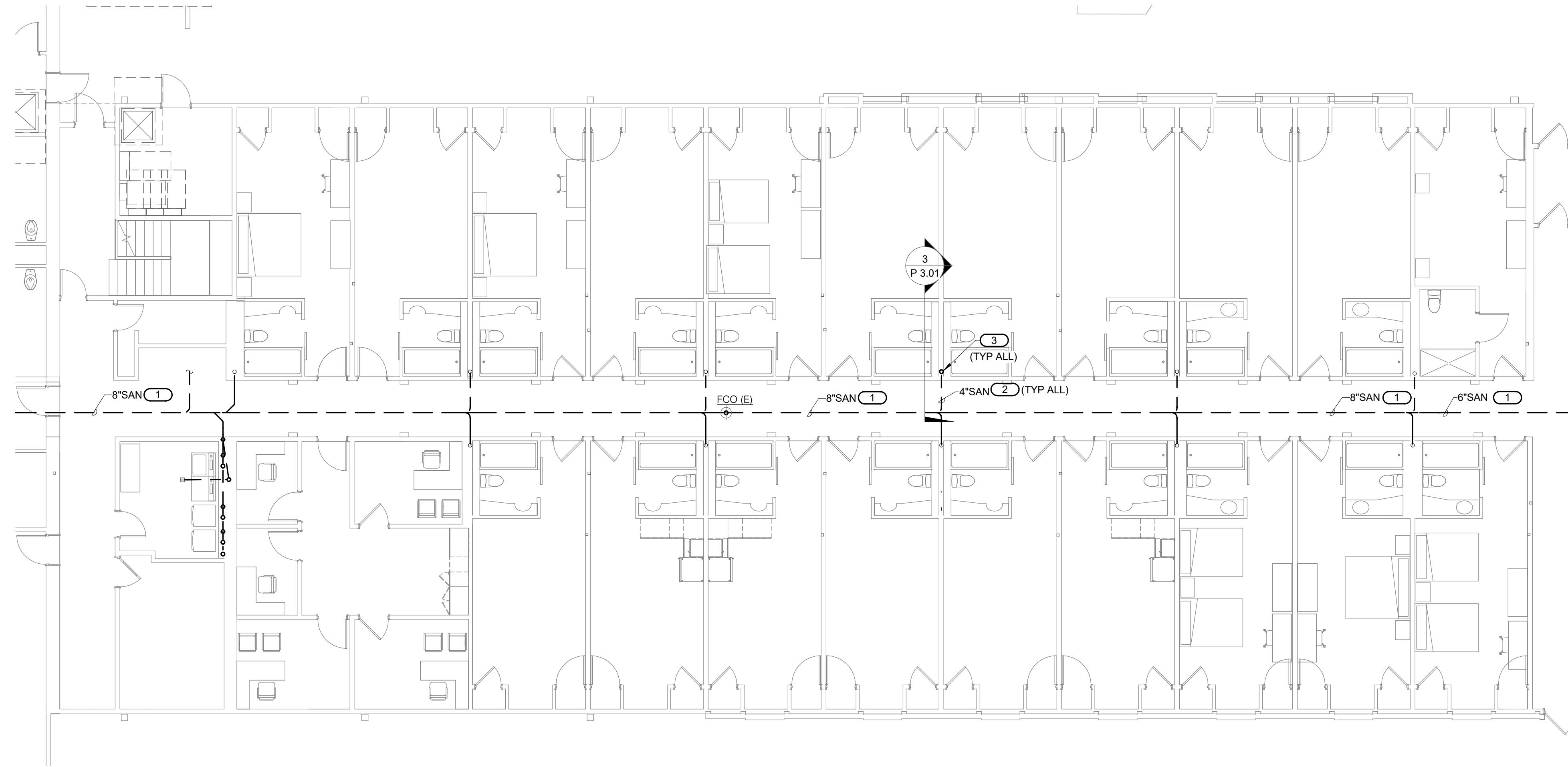
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P 2.02

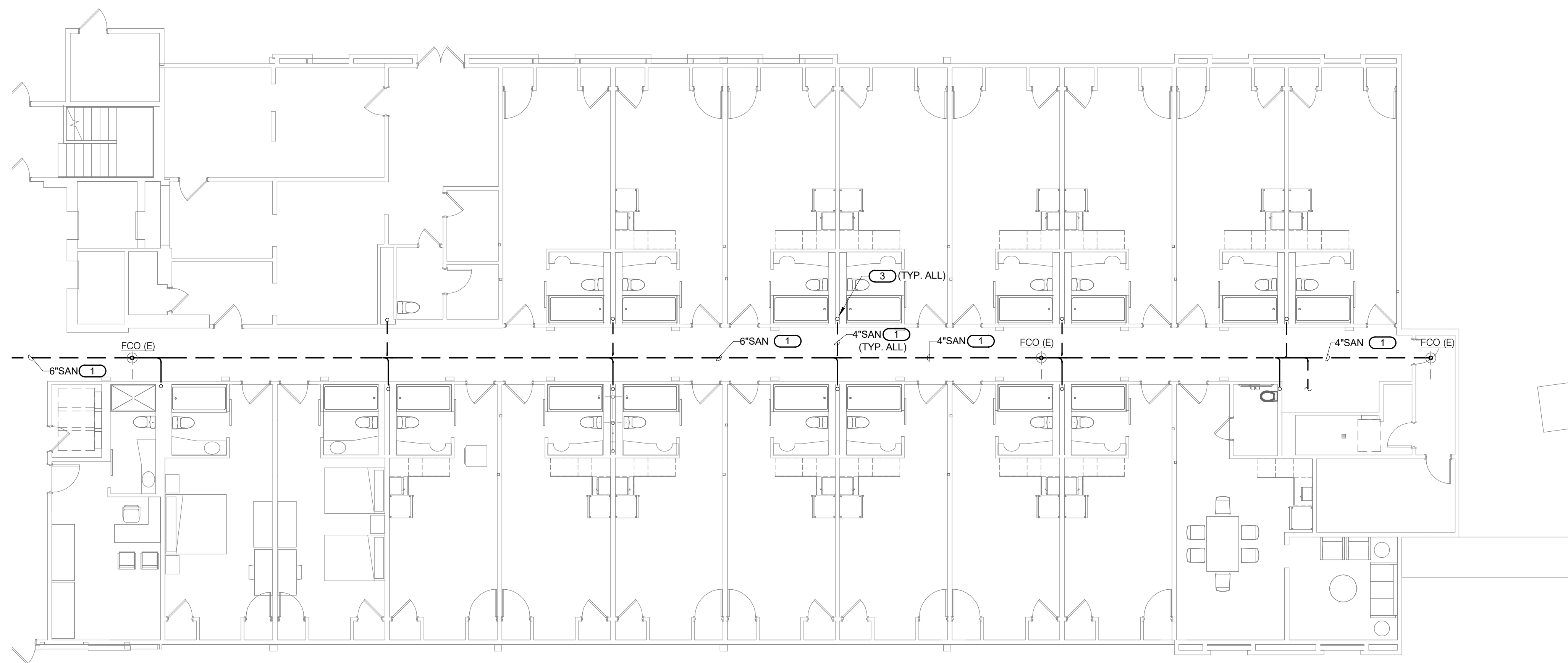
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REF. SCALE IN INCHES: 0 1 2 3
PROJECT #2402228.01



1 WASTE PIPING PLAN - UNDERSLAB - AREA A
1/8" = 1'-0"



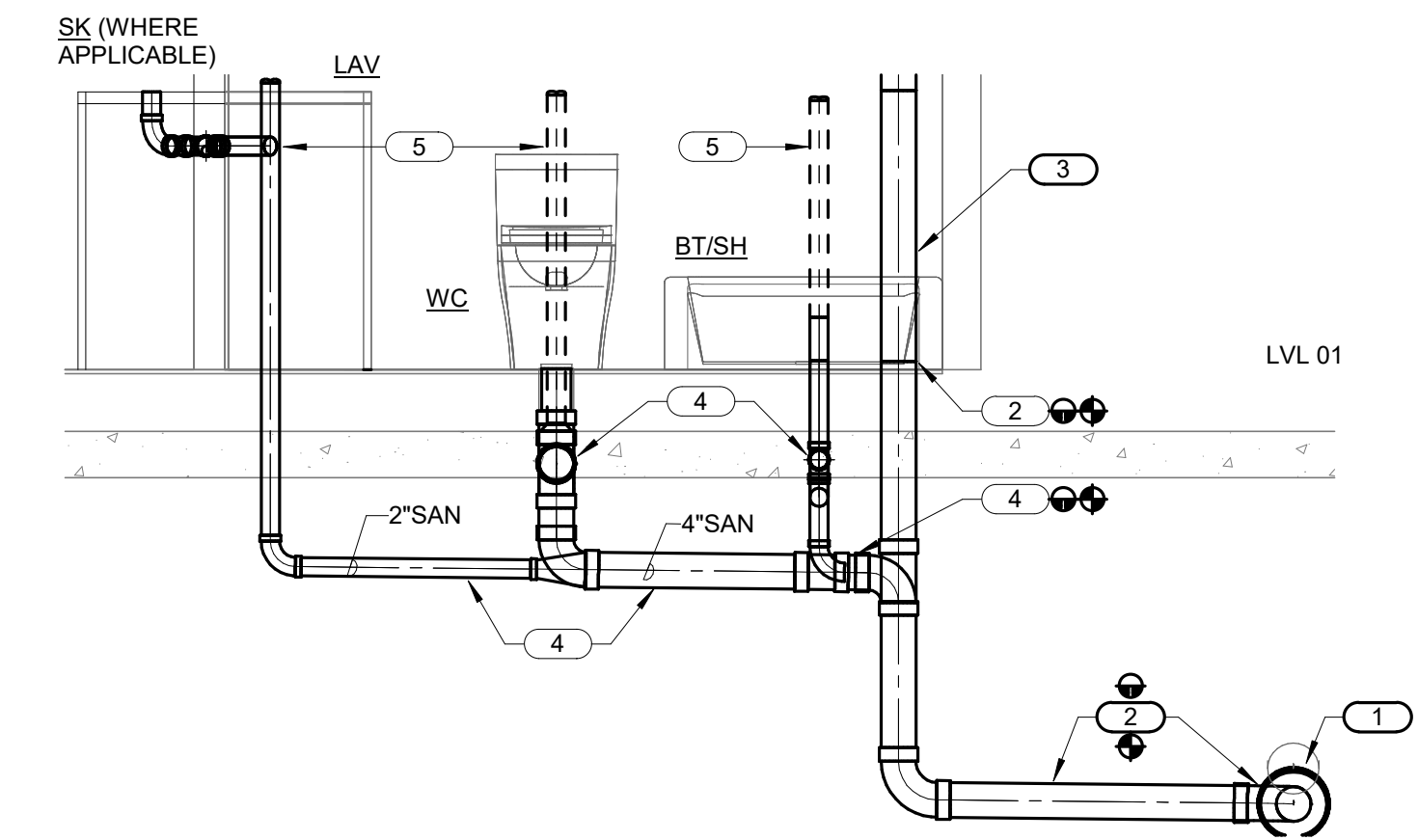
2 WASTE PIPING PLAN - UNDERSLAB - AREA B.
1/8" = 1'-0"

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KEYNOTES:

1. EXISTING BUILDING WASTE MAIN. WATER JET FLUSH PIPE CLEAN OF DEBRIS.
2. EXISTING WASTE STACK LATERAL. WATER JET FLUSH PIPE CLEAN OF DEBRIS AND LINE PIPING INTERIOR. ADD ALTERNATE NO. 1: REMOVE LATERAL WASTE AND STACK RISE UP TO ABOVE SLAB AND REPLACE WITH NEW PIPING.
3. EXISTING WASTE STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 2: REMOVE WASTE STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING.
4. REMOVE EXISTING UNDERSLAB WASTE PIPING SERVING RESIDENT ROOM PLUMBING FIXTURES AND REPLACE WITH NEW PIPING UP TO POINT OF CONNECTION TO EXISTING FIXTURE.
5. EXISTING WASTE AND VENT PIPING WITHIN WALLS TO BE REMOVED AND REPLACED WITH NEW PIPING, INCLUSIVE OF FIXTURE P-TRAPS AND WALL CLEANOUTS.



3 TYPICAL WASTE & VENT RESIDENT ROOM UNDERSLAB & ABOVE SLAB SECTION
NO SCALE

US VETS
12027 North 28th Drive
Phoenix AZ 85029

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Project Number: AH10010002

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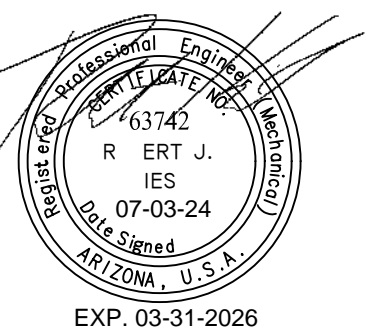
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KIVA #

SDEV #

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Seal / Signature



Project Name
ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number
57.8221.000

Description
ENLARGED WASTE PIPING PLAN - UNDERSLAB - LEVEL 01

Scale
As indicated

P 3.01

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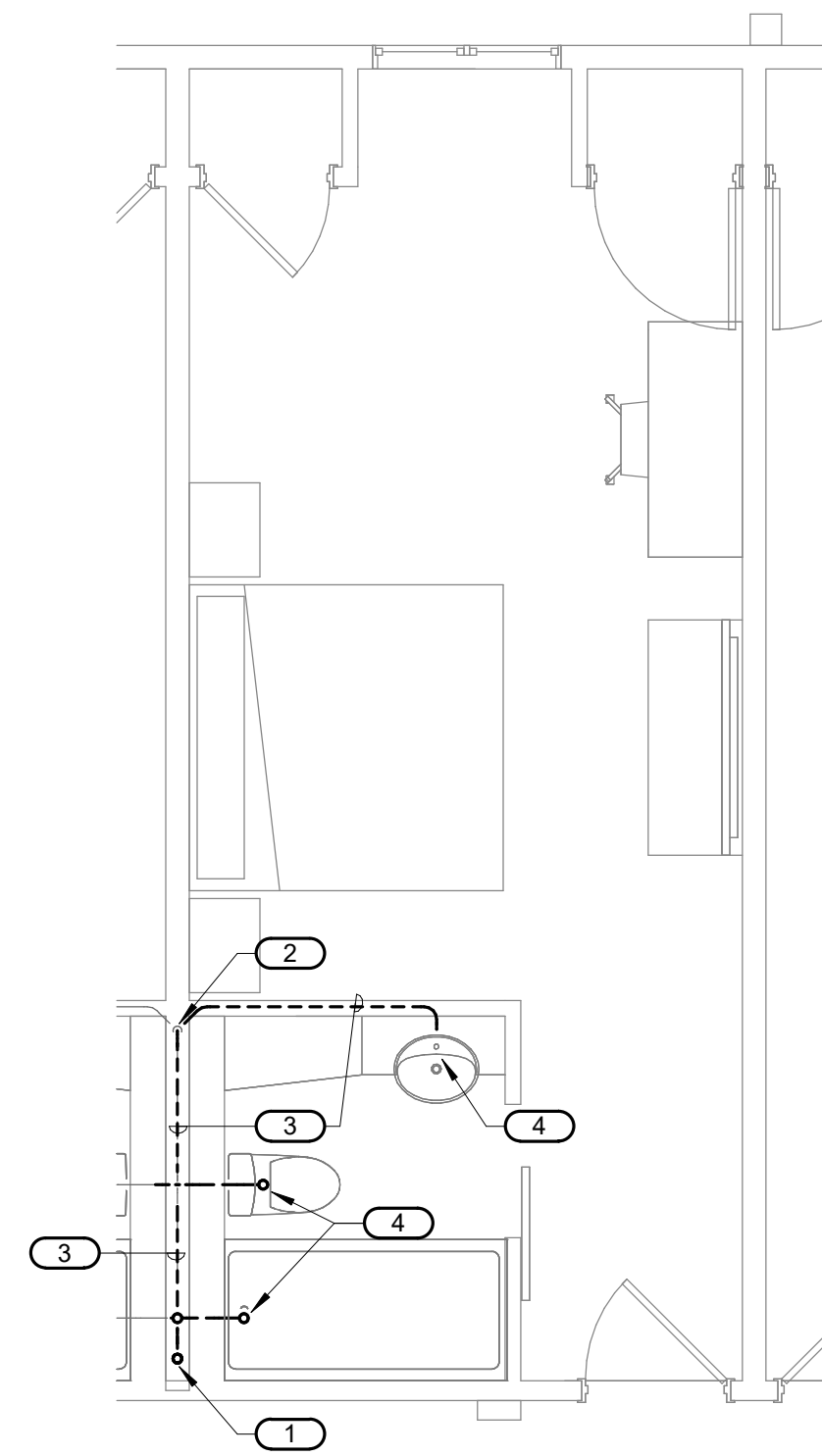
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PLUMBING GENERAL NOTES:

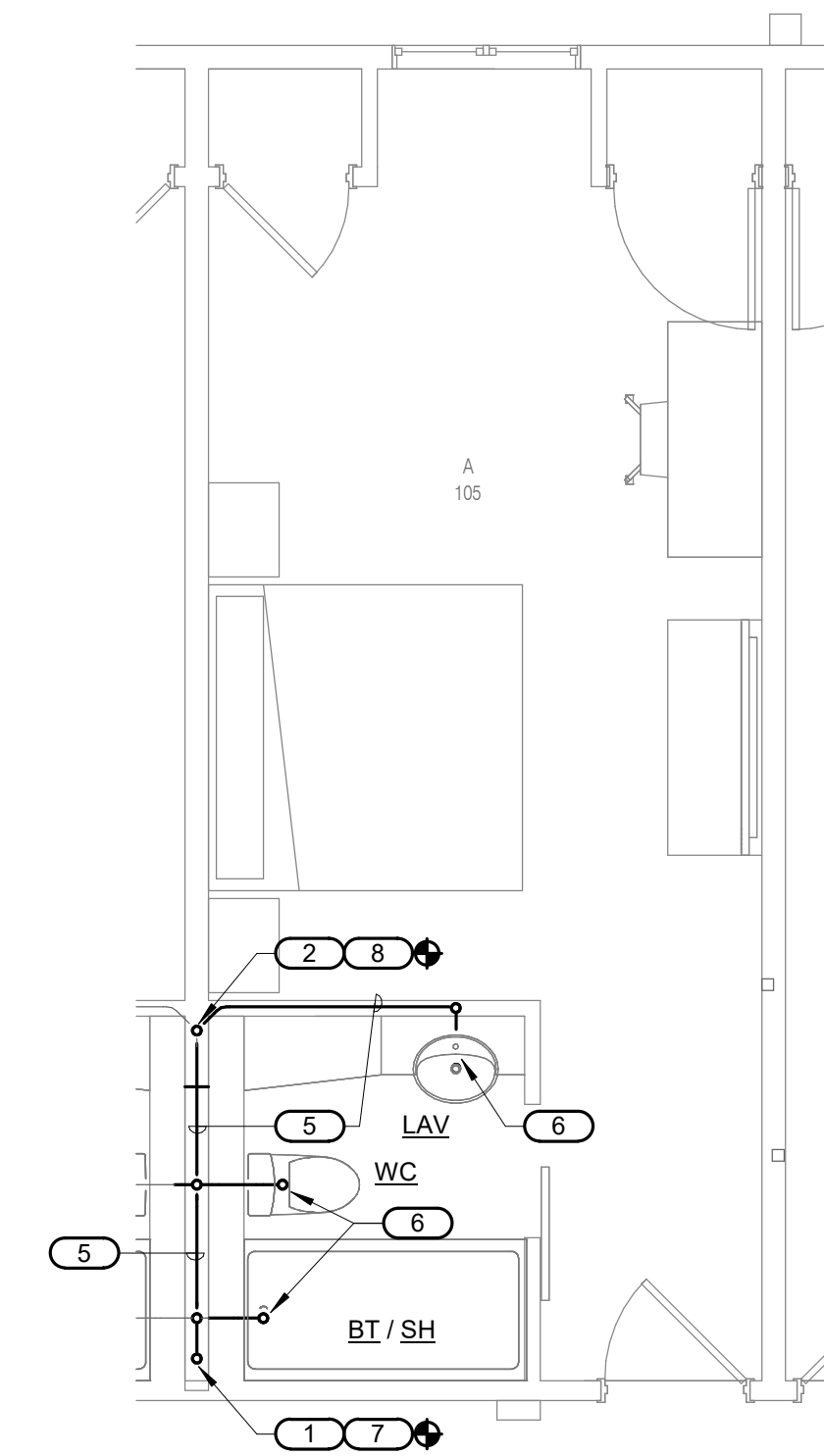
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KEYNOTES: (A - H)

1. EXISTING WASTE STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 2. REMOVE WASTE STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING.
2. EXISTING VENT STACK TO REMAIN AND RECONDITIONED WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 3. REMOVE VENT STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING AND TERMINATE UP THROUGH ROOF. MODIFY ROOFING AS REQUIRED. PROVIDE NEW VENT FLASHING TERMINATION, AND WATER SEAL ROOF PENETRATION.
3. EXISTING WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING TO BE REMOVED.
4. EXISTING WASTE AND VENT PIPING SERVING PLUMBING FIXTURE ROUGH-IN TO BE REMOVED.
5. NEW WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING.
6. NEW WASTE AND VENT PIPING ROUGH-IN TO EXISTING PLUMBING FIXTURE. PROVIDE NEW SHOWER FLOOR DRAIN, MATCH EXISTING STYLE AND FINISH.
7. CONNECT NEW WASTE PIPING TO EXISTING OR NEW WASTE STACK.
8. CONNECT NEW VENT PIPING TO EXISTING OR NEW VENT STACK.

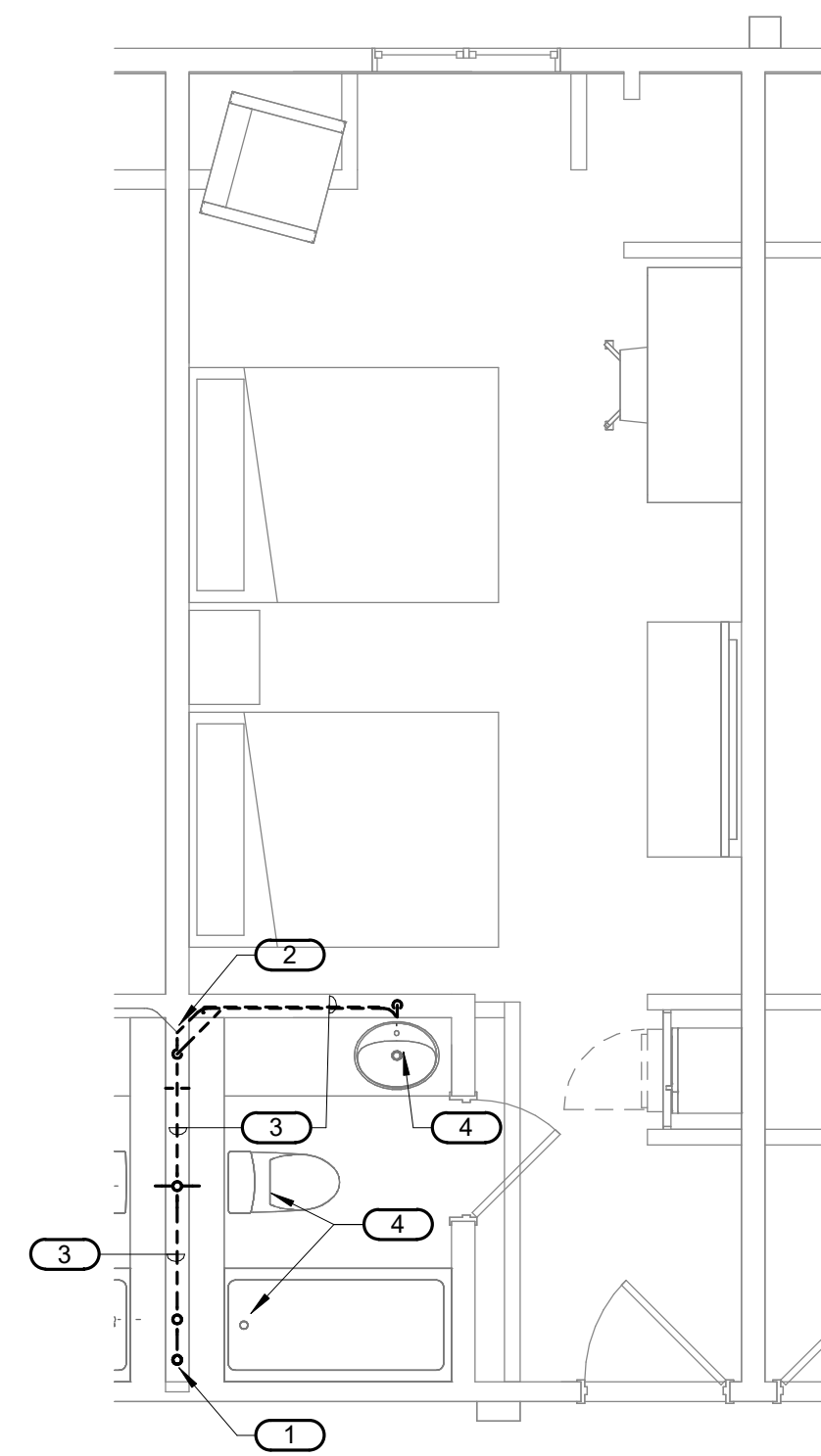


DEMOLITION PLAN - WASTE & VENT

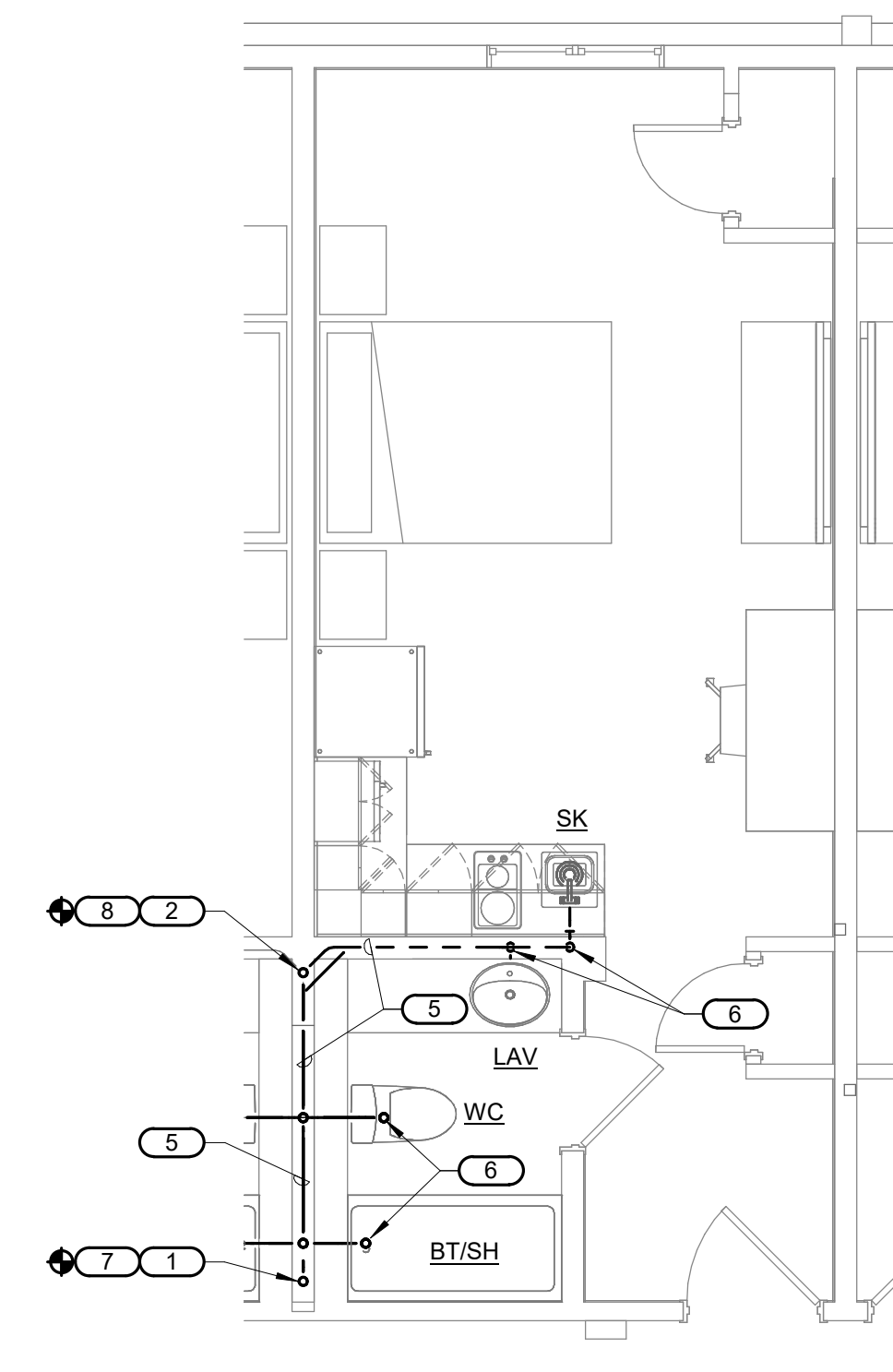


NEW WORK PLAN - WASTE & VENT

1 TYPICAL UNIT TYPE "A", "B", & "H"
1/4" = 1'-0" NOTE: UNIT "H" SAME AS "A" & "B" EXCEPT NOT BACK TO BACK



DEMOLITION PLAN - WASTE & VENT



NEW WORK PLAN - WASTE & VENT

2 TYPICAL UNIT "C" & "C1"
1/4" = 1'-0"

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REF. SCALE IN INCHES PROJECT #2402228.01

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Tel: 602.523.4900
Fax: 602.523.4949

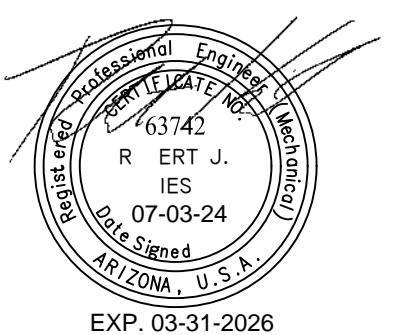
Date	Description
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KIVA #

SDEV #

Note:
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Seal / Signature



Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

Description

ENLARGED PLUMBING PLAN - TYPE A, B, C, C.1 & H.

Scale

As indicated

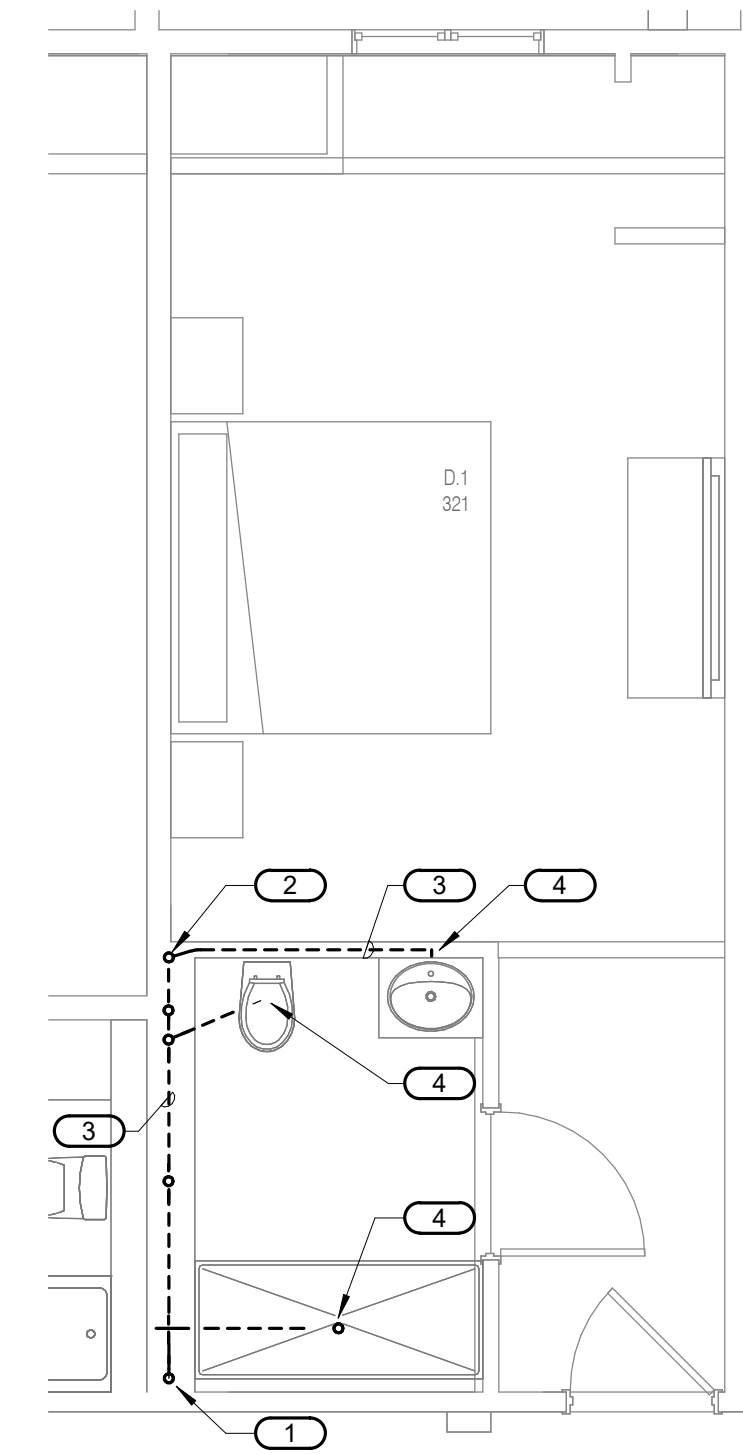
P 4.01

PLUMBING GENERAL NOTES:

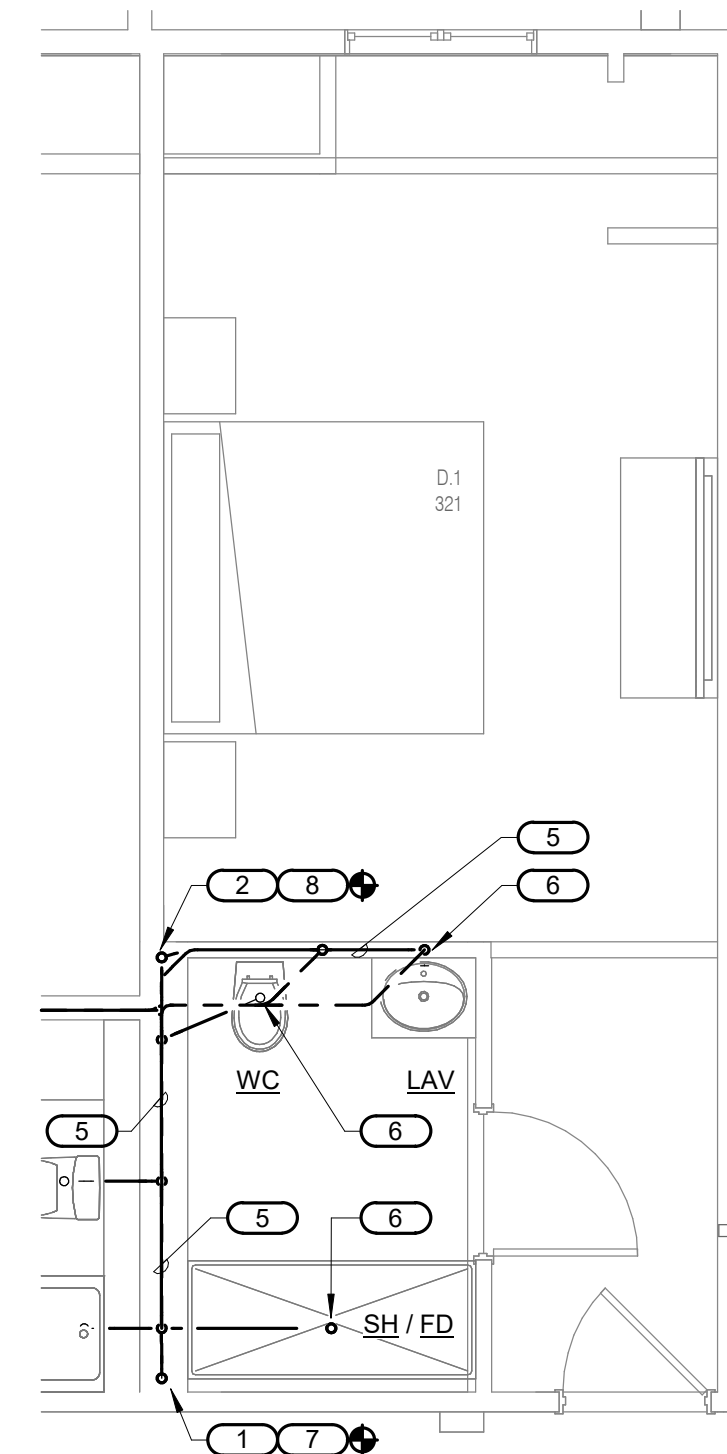
1. THE SYMBOLS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CONTRACTOR SHALL VERIFY THAT ALL PLUMBING FIXTURES ARE OPERATIONAL AND NO LEAKS ARE EVIDENT PRIOR TO TURN-OVER OF PROJECT TO OWNER.
3. ALL PLUMBING FIXTURES CURRENTLY NOT INSTALLED SHALL BE INSTALLED AS A PART OF THIS PROJECT SCOPE AND MADE OPERATIONAL.
4. IN THE EVENT PLUMBING FIXTURE IS DAMAGED AND IN NEED OF REPLACEMENT, NOTIFY OWNER OF COST AND SUBMIT DOCUMENTATION IN WRITING AND ANY SUPPORTING PHOTOGRAPHS. OWNER SHALL PROVIDE MANUFACTURER AND MODEL NUMBER OF REPLACEMENT FIXTURE TO MATCH EXISTING.
5. VERIFY PIPE SIZES. REPLACEMENT SIZE SHALL MATCH EXISTING.
6. EXISTING CONDITIONS ON PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED AND NEW WORK TO BE INSTALLED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PLUMBING CONTRACTOR SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK.
8. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
9. NOT ALL EXISTING PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
10. CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE OWNER IF OBSTRUCTIONS ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO AREA OF WORK.
11. CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK TO MATCH EXISTING CONDITIONS. COORDINATE WITH OWNER TO OBTAIN FINISHES STOCK/MANUFACTURER DATA IN ORDER TO MATCH EXISTING.
12. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK AND REPLACE DAMAGED TO MATCH EXISTING CONDITIONS.

KEYNOTES: (B)

1. EXISTING WASTE STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 2. REMOVE WASTE STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING.
2. EXISTING VENT STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 3. REMOVE VENT STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING AND TERMINATE UP THROUGH ROOF. MODIFY ROOFING AS REQUIRED, PROVIDE NEW VENT FLASHING TERMINATION, AND WATER SEAL ROOF PENETRATION.
3. EXISTING WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING TO BE REMOVED.
4. EXISTING WASTE AND VENT PIPING SERVING PLUMBING FIXTURE ROUGH-IN TO BE REMOVED.
5. NEW WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING.
6. NEW WASTE AND VENT PIPING ROUGH-IN TO EXISTING PLUMBING FIXTURE. PROVIDE NEW SHOWER DRAIN, MATCH EXISTING STYLE AND FINISH.
7. CONNECT NEW WASTE PIPING TO EXISTING OR NEW WASTE STACK.
8. CONNECT NEW VENT PIPING TO EXISTING OR NEW VENT STACK.

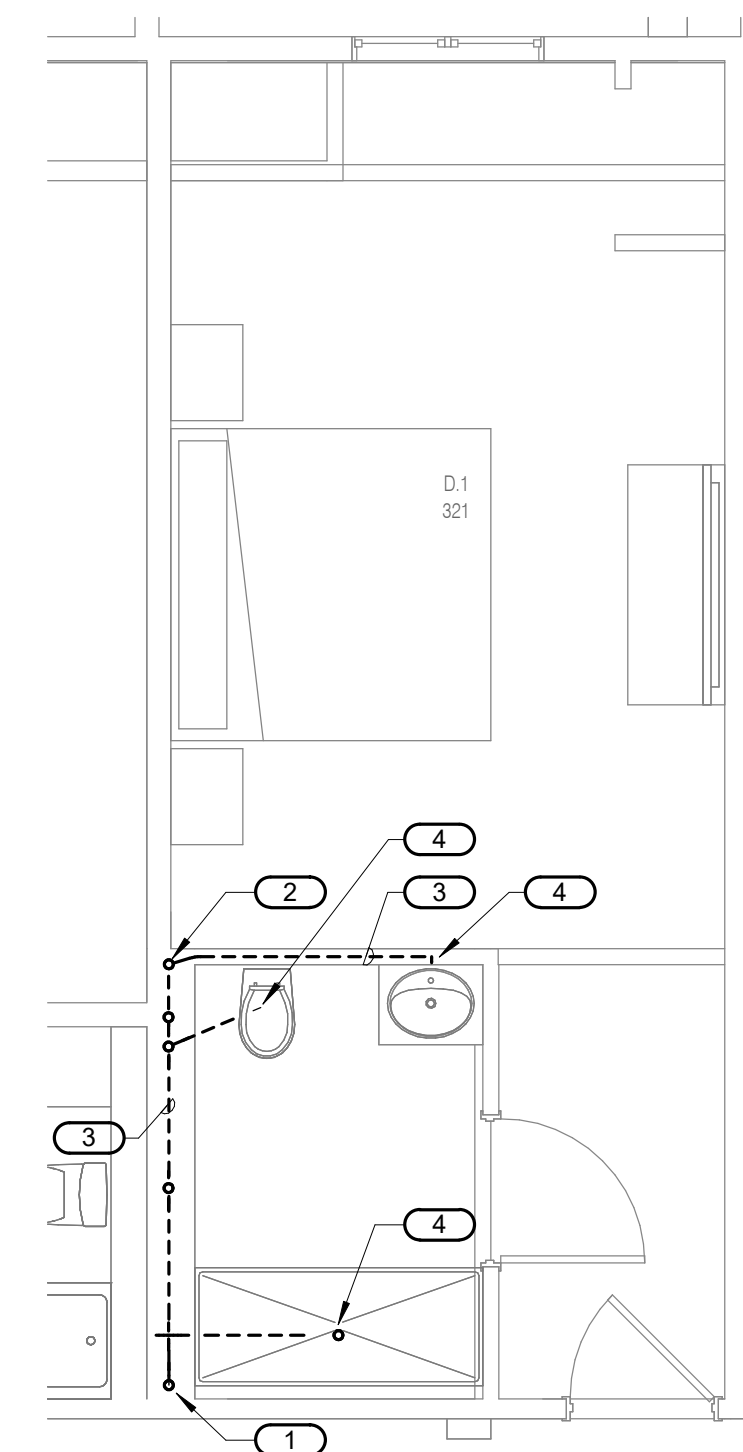


DEMOLITION PLAN - WASTE & VENT

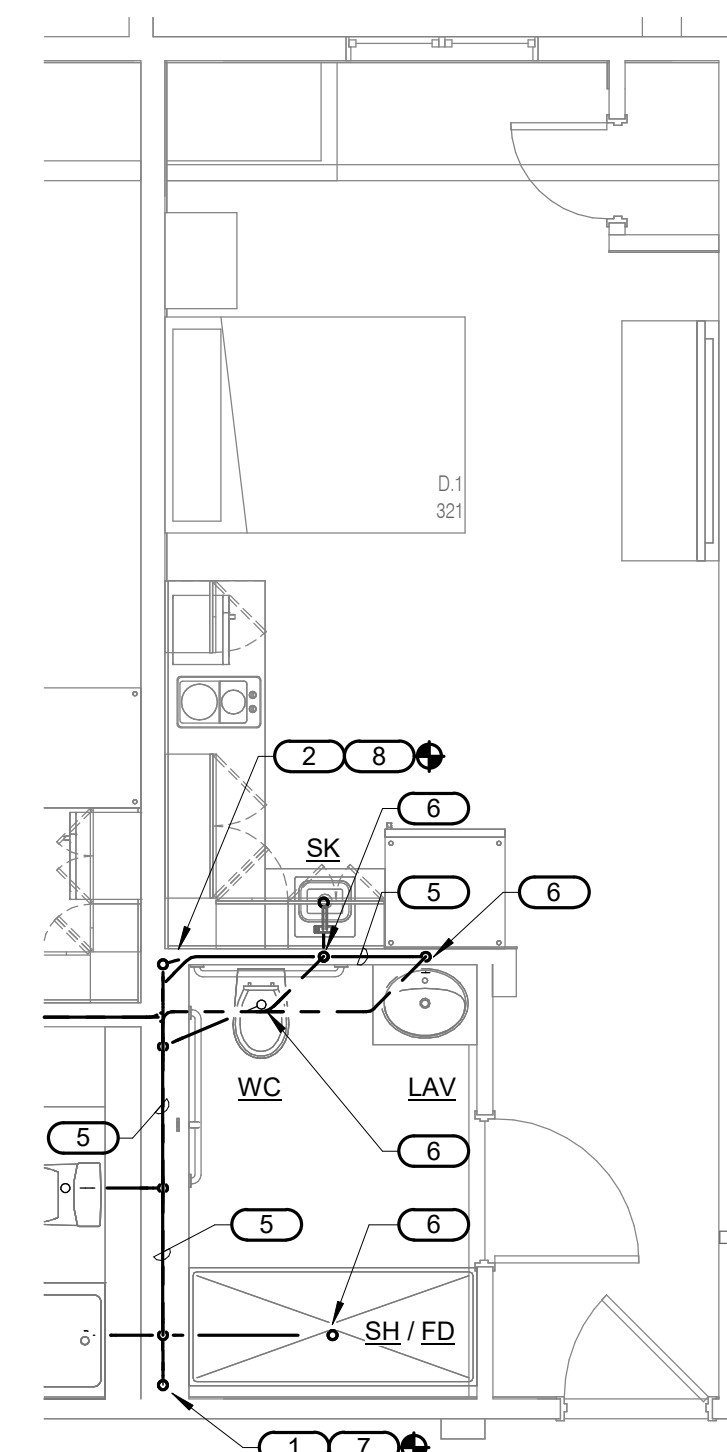


NEW WORK PLAN - WASTE & VENT

1 TYPICAL UNIT TYPE "D"
1/4" = 1'-0"



DEMOLITION PLAN - WASTE & VENT



NEW WORK PLAN - WASTE & VENT

2 TYPICAL UNIT TYPE "D.1"
1/4" = 1'-0"

IMEG 8000 E PRIMA CENTER PARKWAY
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SCOTTSDALE, AZ 85258
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www.imegcorp.com

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REF. SCALE IN INCHES PROJECT #2402228.01

US VETS

12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH1001002

Gensler

Patrick Magness
2575 E Camelback Rd
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Phoenix, AZ 85016
United States

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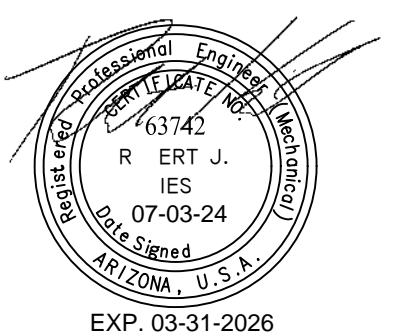
Date	Description
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KIVA #

SDEV #

Note:
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Seal / Signature



Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

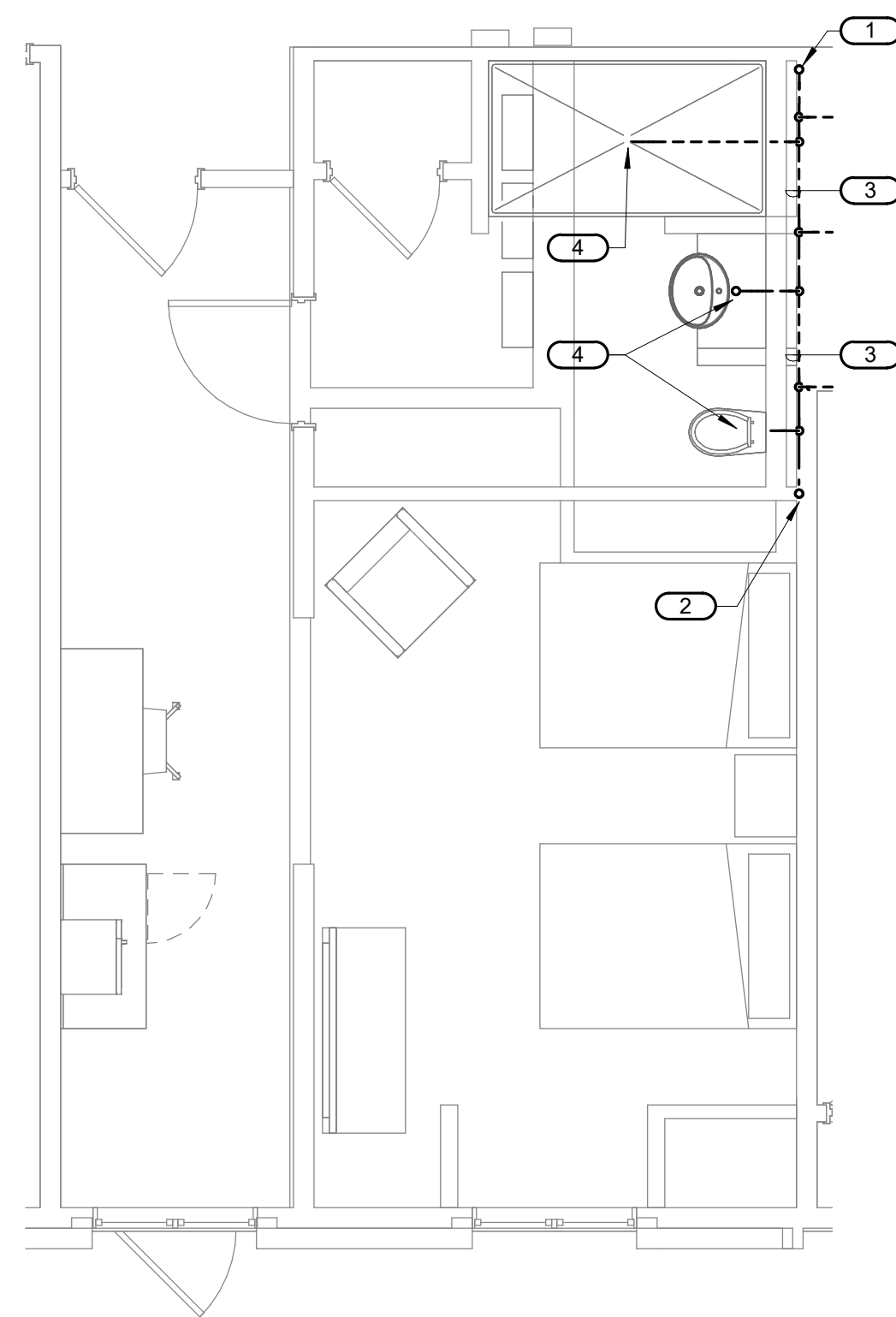
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ENLARGED PLUMBING PLAN - TYPE D & D.1

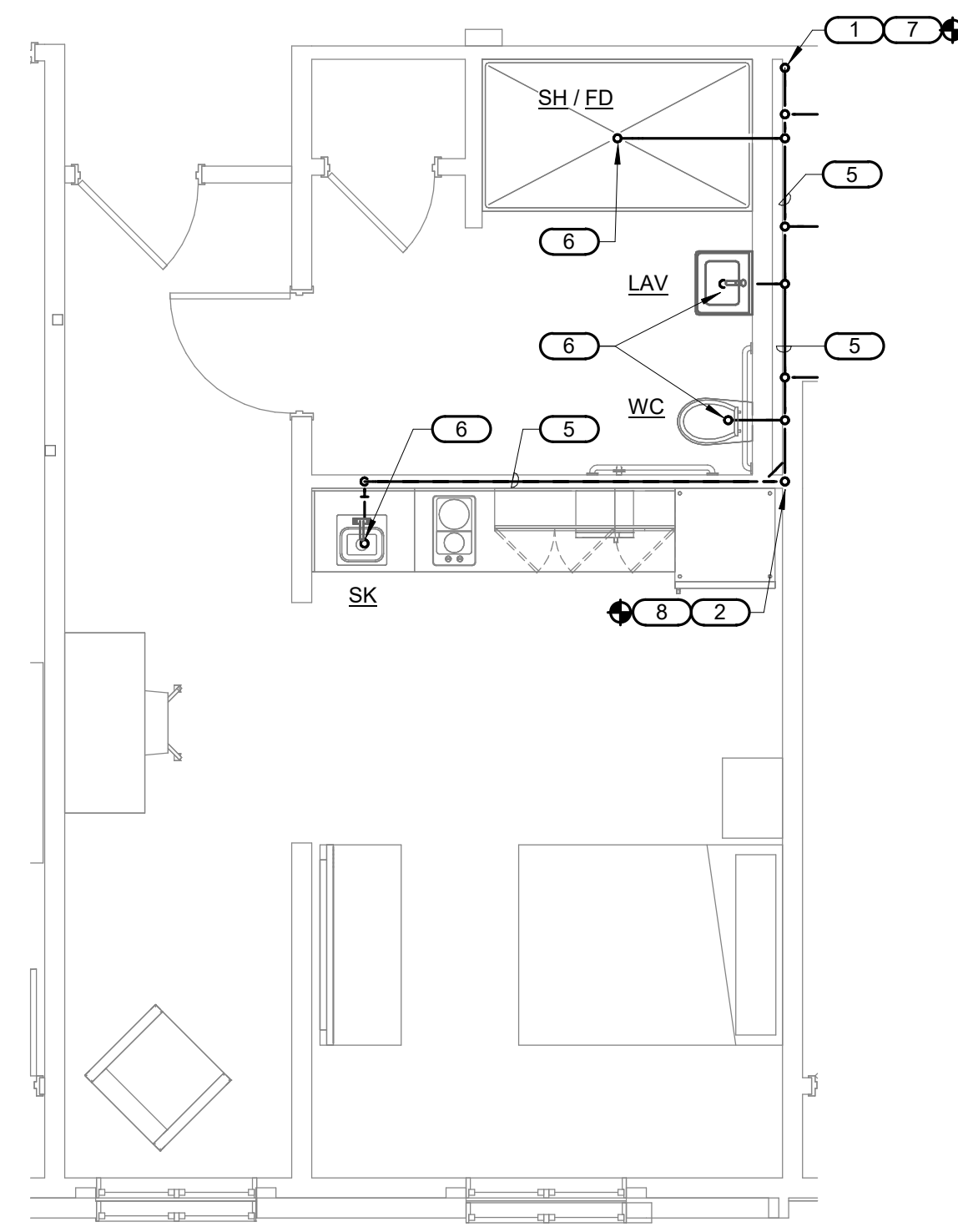
Scale

As indicated

P 4.02

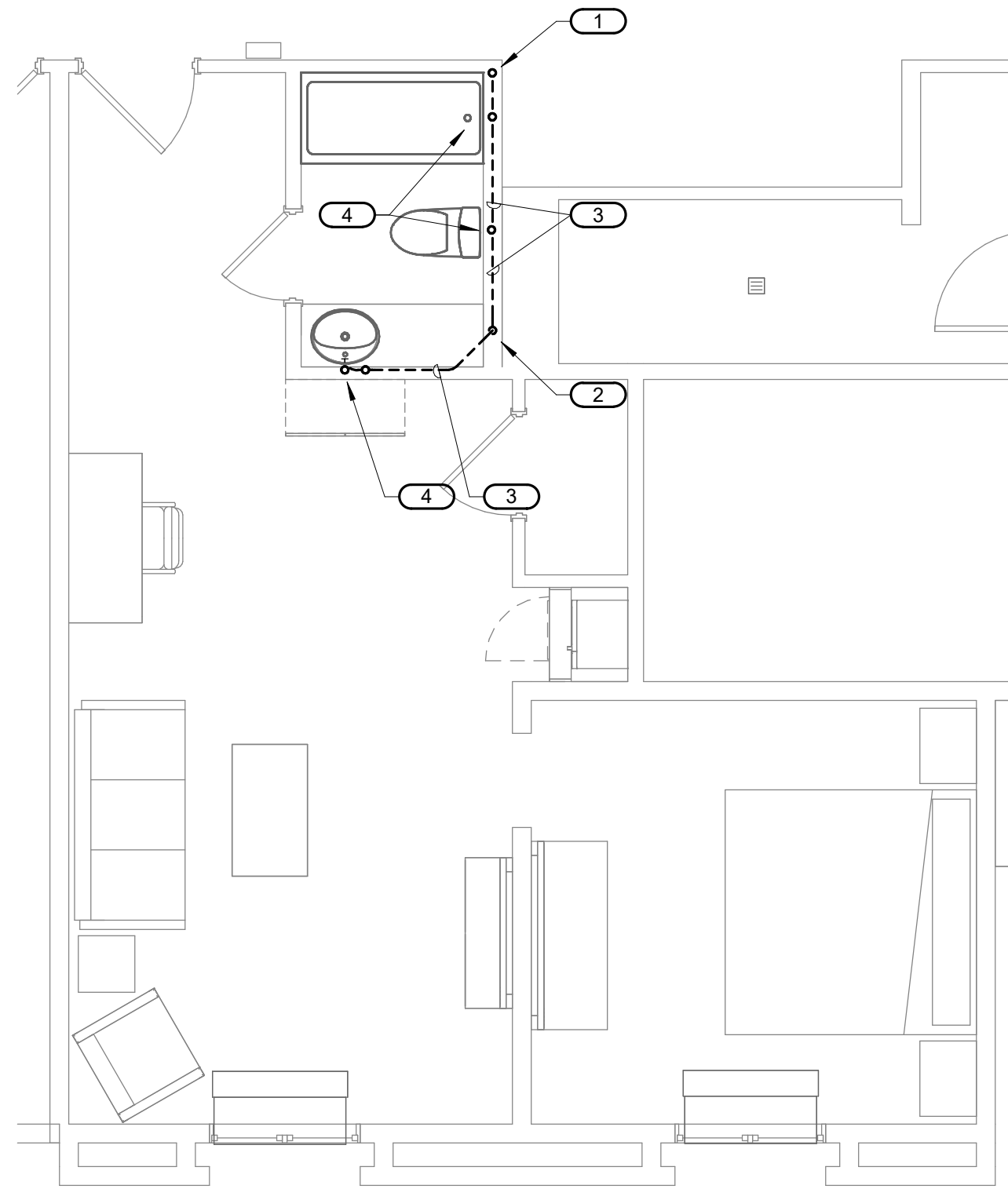


DEMOLITION PLAN - WASTE & VENT

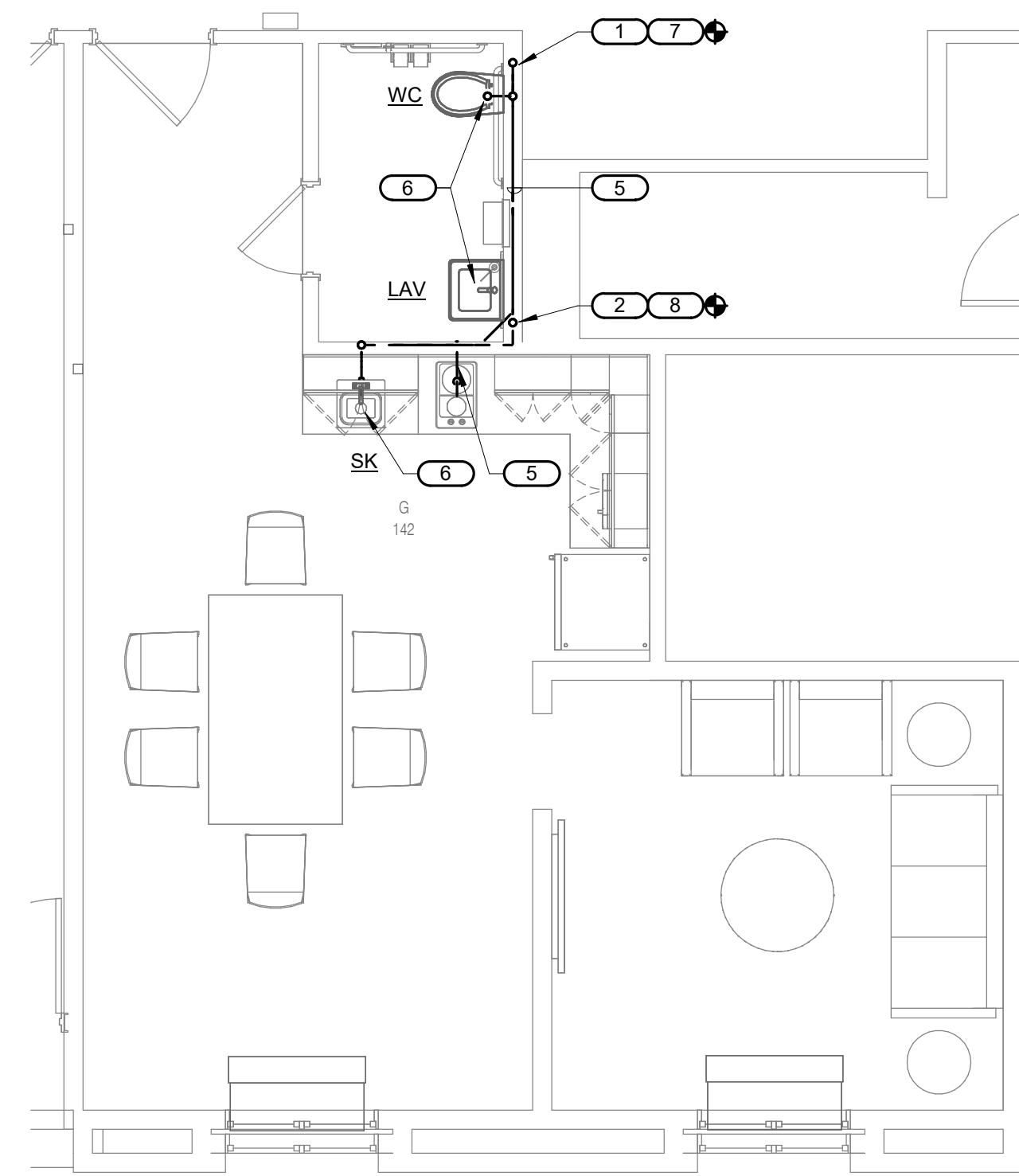


NEW WORK PLAN - WASTE & VENT

1 TYPICAL UNIT TYPE "D.2"
1/4" = 1'-0"

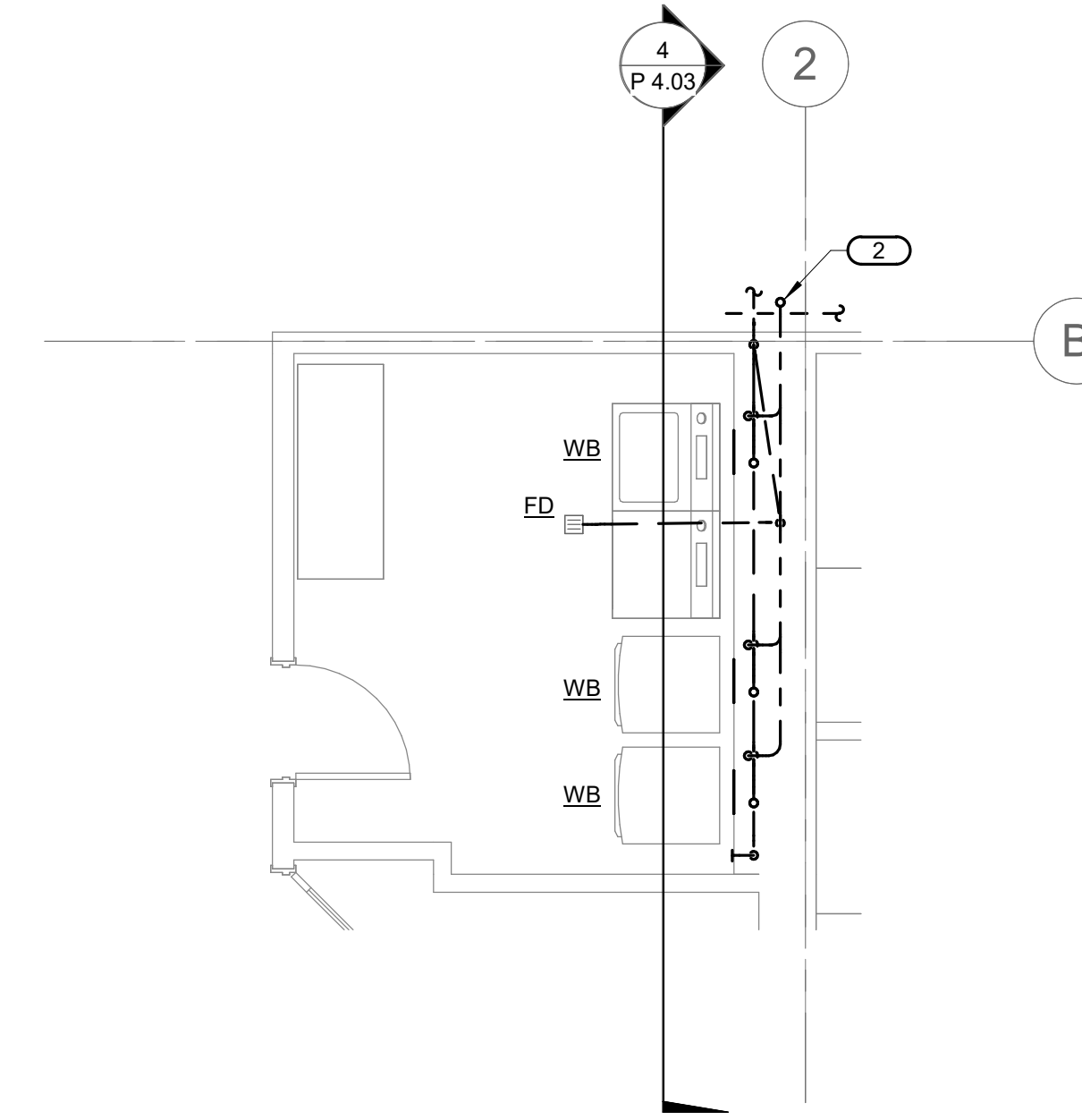


DEMOLITION PLAN - WASTE & VENT

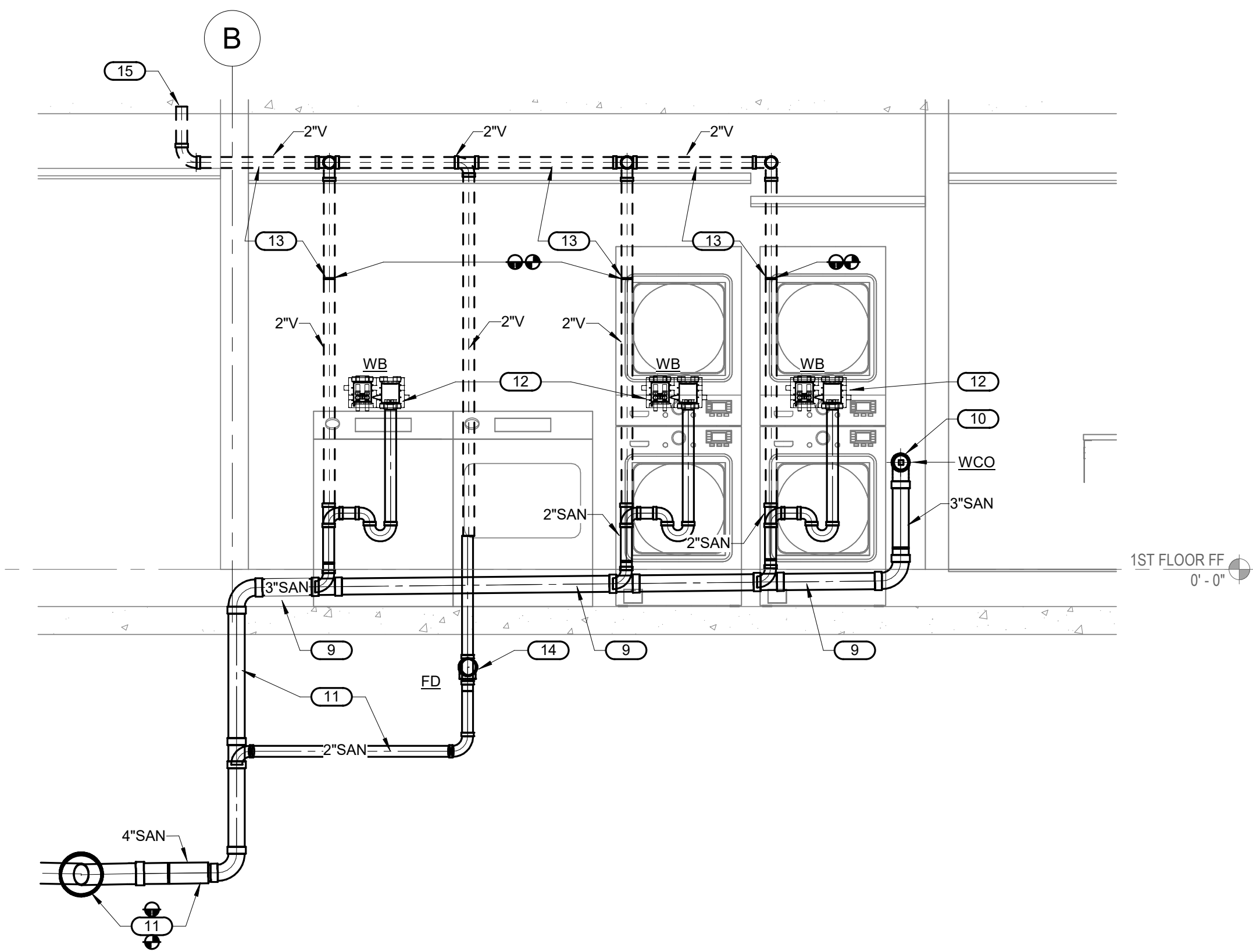


NEW WORK PLAN - WASTE & VENT

3 TYPICAL UNIT TYPE "G"
1/4" = 1'-0"



2 WASTE & VENT PLAN - LEVEL 01 -
TYPE J1.
1/4" = 1'-0"



4 WASTE AND VENT LAUNDRY
ROOM - LVL 1 UNDERSLAB &
ABOVE SLAB SECTION
NO SCALE

PLUMBING GENERAL NOTES:

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KEYNOTES: (#)

- EXISTING WASTE STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 2. REMOVE WASTE STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING.
- EXISTING VENT STACK TO REMAIN AND RECONDITION WITH NEW INTERNAL TO PIPE LINING. ADD ALTERNATE NO. 3. REMOVE VENT STACK IN ITS ENTIRETY AND REPLACE WITH NEW PIPING AND TERMINATE UP THROUGH ROOF. MODIFY ROOFING AS REQUIRED. PROVIDE NEW VENT FLASHING TERMINATION, AND WATER SEAL ROOF PENETRATION.
- EXISTING WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING TO BE REMOVED.
- EXISTING WASTE AND VENT PIPING SERVING PLUMBING FIXTURE ROUGH-IN TO BE REMOVED.
- NEW WASTE AND VENT PIPING WITHIN WALL, BELOW FLOOR AND ABOVE CEILING.
- NEW WASTE AND VENT PIPING ROUGH-IN TO EXISTING PLUMBING FIXTURE. PROVIDE NEW SHOWER FLOOR DRAIN. MATCH EXISTING STYLE AND FINISH.
- CONNECT NEW WASTE PIPING TO EXISTING OR NEW WASTE STACK.
- CONNECT NEW VENT PIPING TO EXISTING OR NEW VENT STACK.
- EXISTING WASTE MAIN ABOVE SLAB, INCLUSIVE PLUMBING FIXTURE BRANCH PIPING TO BE REMOVED AND REPLACED WITH NEW.
- EXISTING WALL CLEANOUT AND ASSOCIATED PIPING TO BE REMOVED AND REPLACED WITH NEW.
- REMOVE EXISTING UNDERSLAB WASTE PIPING SERVING LAUNDRY ROOM AND REPLACE WITH NEW UP TO POINT OF CONNECTION TO EXISTING BUILDING WASTE MAIN.
- EXISTING PVC PLUMBING FIXTURE WASTE AND VENT ROUGH-INS TO REMAIN. MODIFY PIPING AS REQUIRED TO CONNECT TO NEW PIPING.
- REMOVE EXISTING VENT WITHIN WALL AND REPLACE WITH NEW UP TO POINT OF CONNECTION TO EXISTING PVC.
- EXISTING FLOOR DRAIN WASTE PIPING INCLUSIVE OF P-TRAP AND TRAP ARM TO BE REMOVED AND REPLACED WITH NEW. PROVIDE NEW FLOOR DRAIN AS REQUIRED.
- VENT PIPING UP TO LEVEL(S) ABOVE TO BE REMOVED AND REPLACED WITH NEW.

US VETS

12027 North 28th Drive
Phoenix AZ 85029

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

Gensler

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2575 E Camelback Rd
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Fax: 602.523.4949

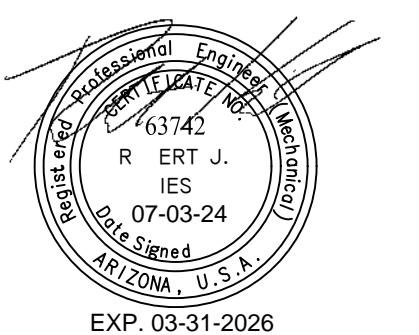
△ Date Description

KIVA #

SDEV #

Note:
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Seal / Signature



Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

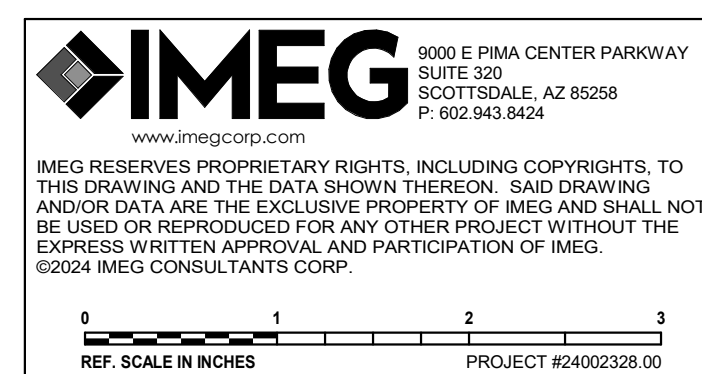
Description

ENLARGED PLUMBING PLAN - TYPE D.2, G, & LAUNDRY ROOM

Scale

As indicated

P 4.03



US VETS

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Phoenix AZ 85029

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OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT
Project Number: AH10010002

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Patrick Magness
2575 E Camelback Rd
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Fax: 602.523.4949

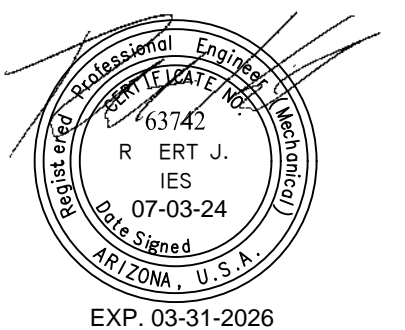
Date	Description
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KIVA #

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Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

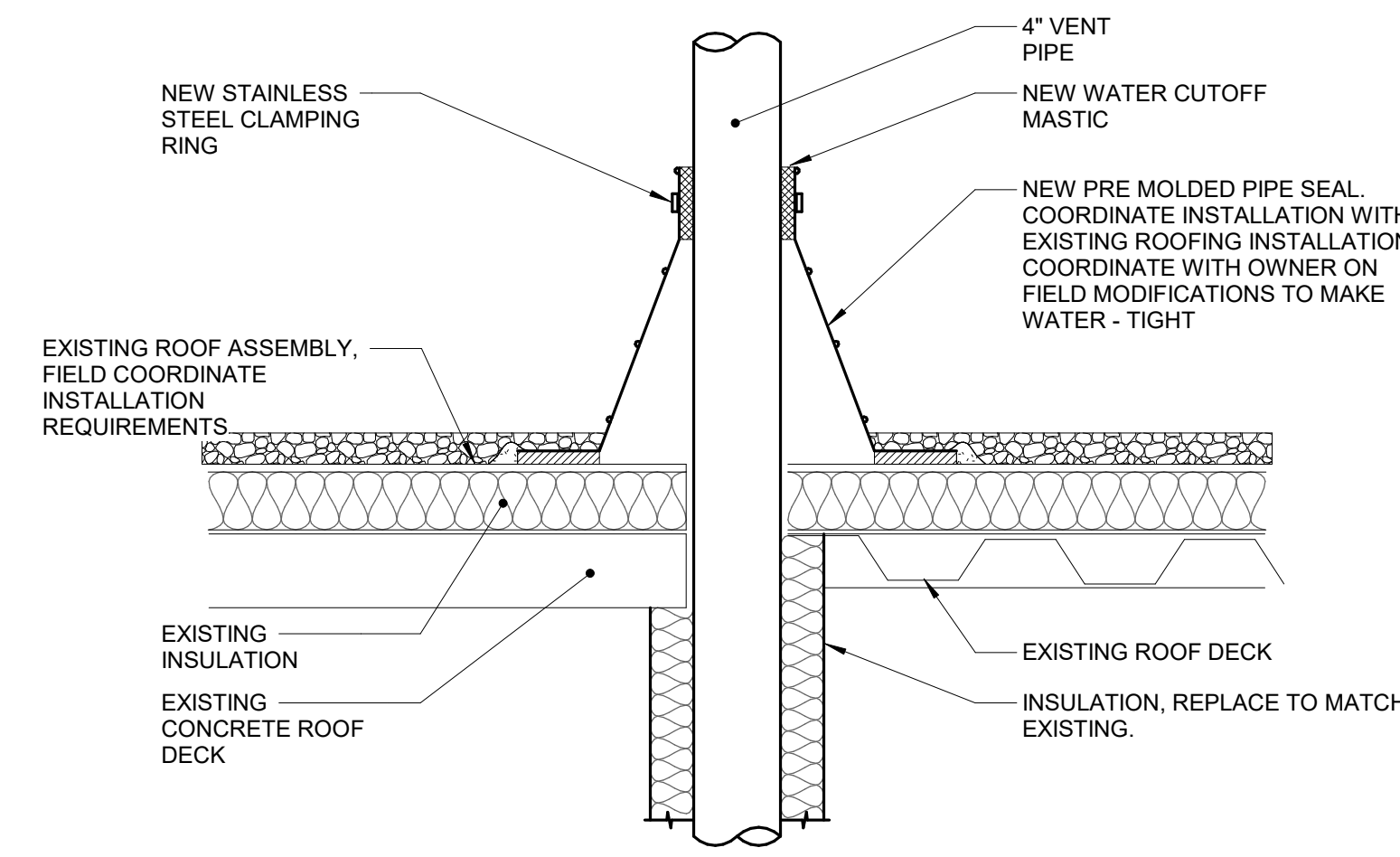
Description

PLUMBING DETAILS.

Scale

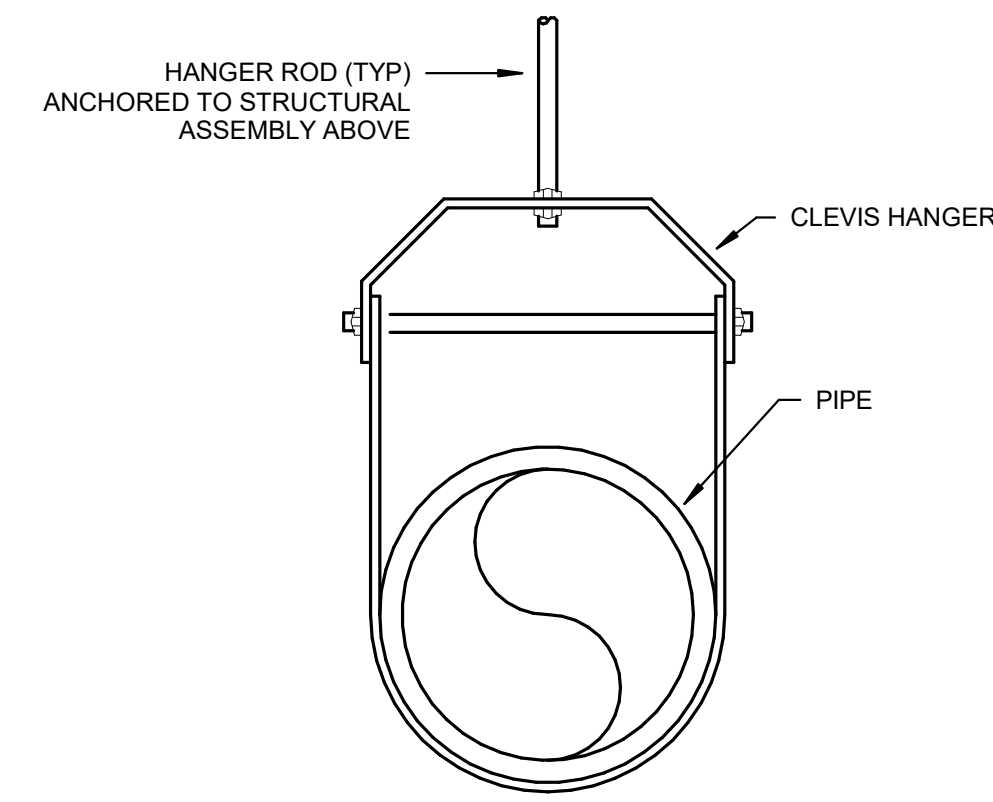
12" = 1'-0"

P 5.01

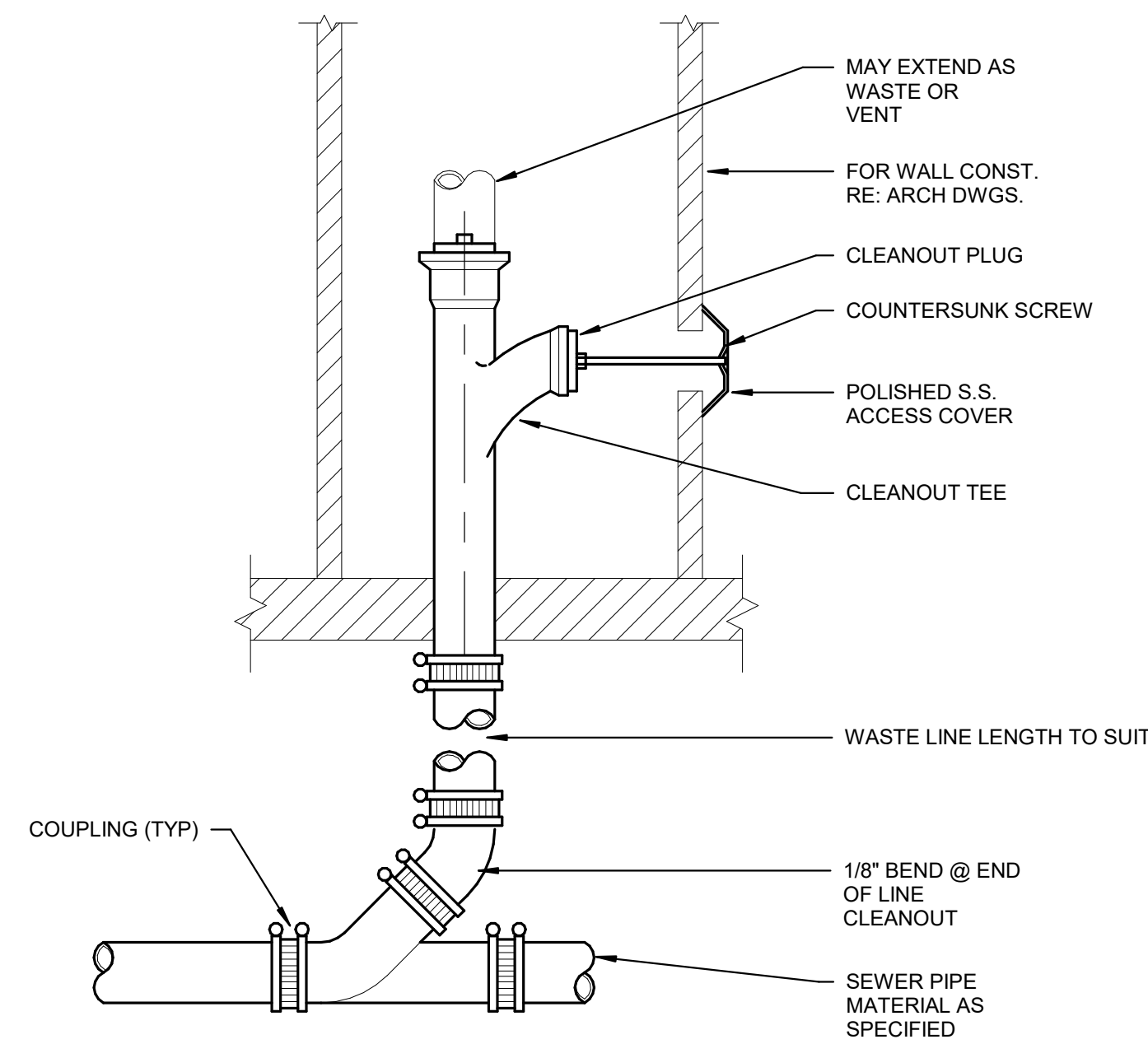


NOTES:
1. COORDINATE REPLACEMENT OF VENT PIPE WITH NEW UNDER ADD. ALT. NO.3

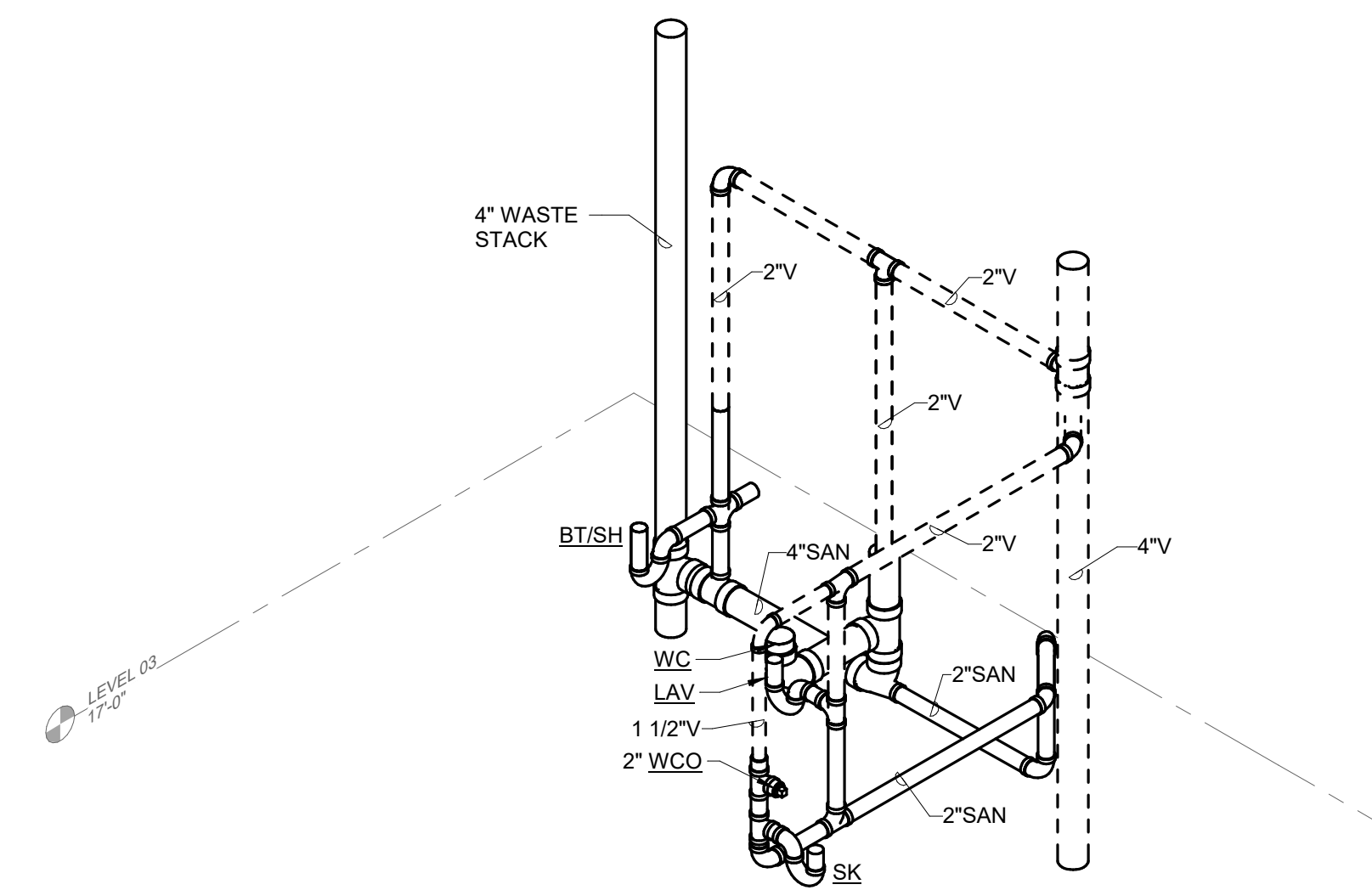
3 VENT PIPE FLASHING
NO SCALE



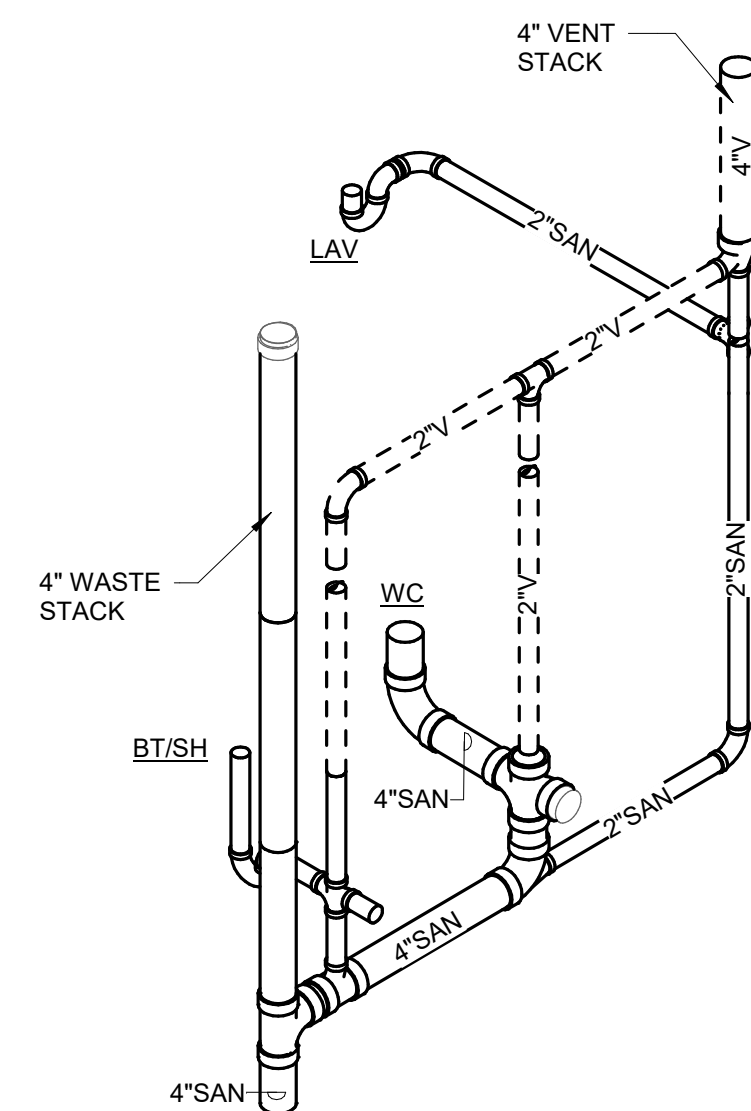
2 PIPE HANGER FOR WASTE PIPING
NO SCALE



1 WALL CLEANOUT
NO SCALE



5 TYPICAL UNIT TYPE C & C.1 - WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE



4 TYPICAL UNIT TYPE "A", "B" & "H" WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE

IMEG 8000 E FIRMA CENTER PARKWAY
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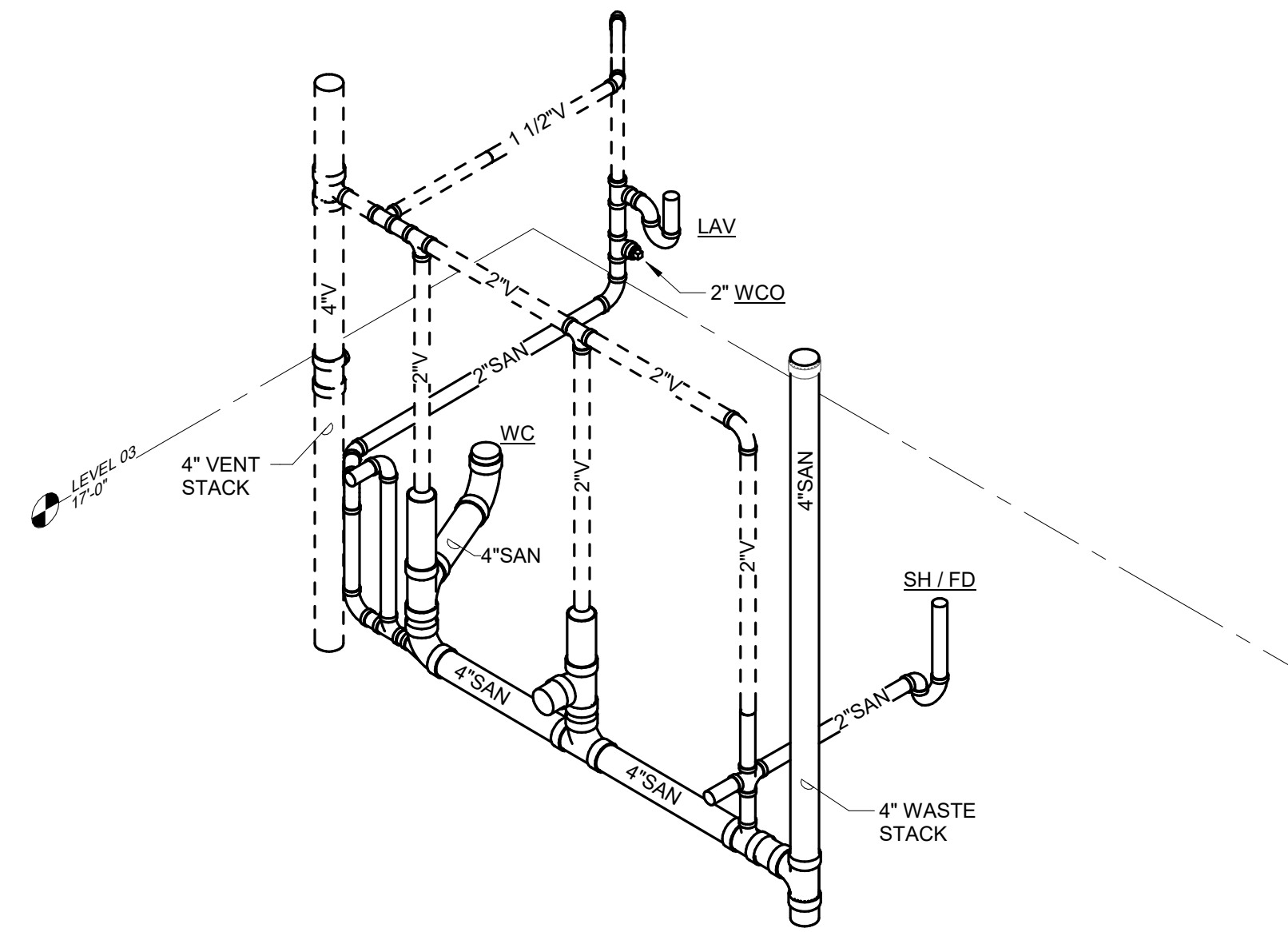
US VETS

12027 North 28th Drive
Phoenix AZ 85029

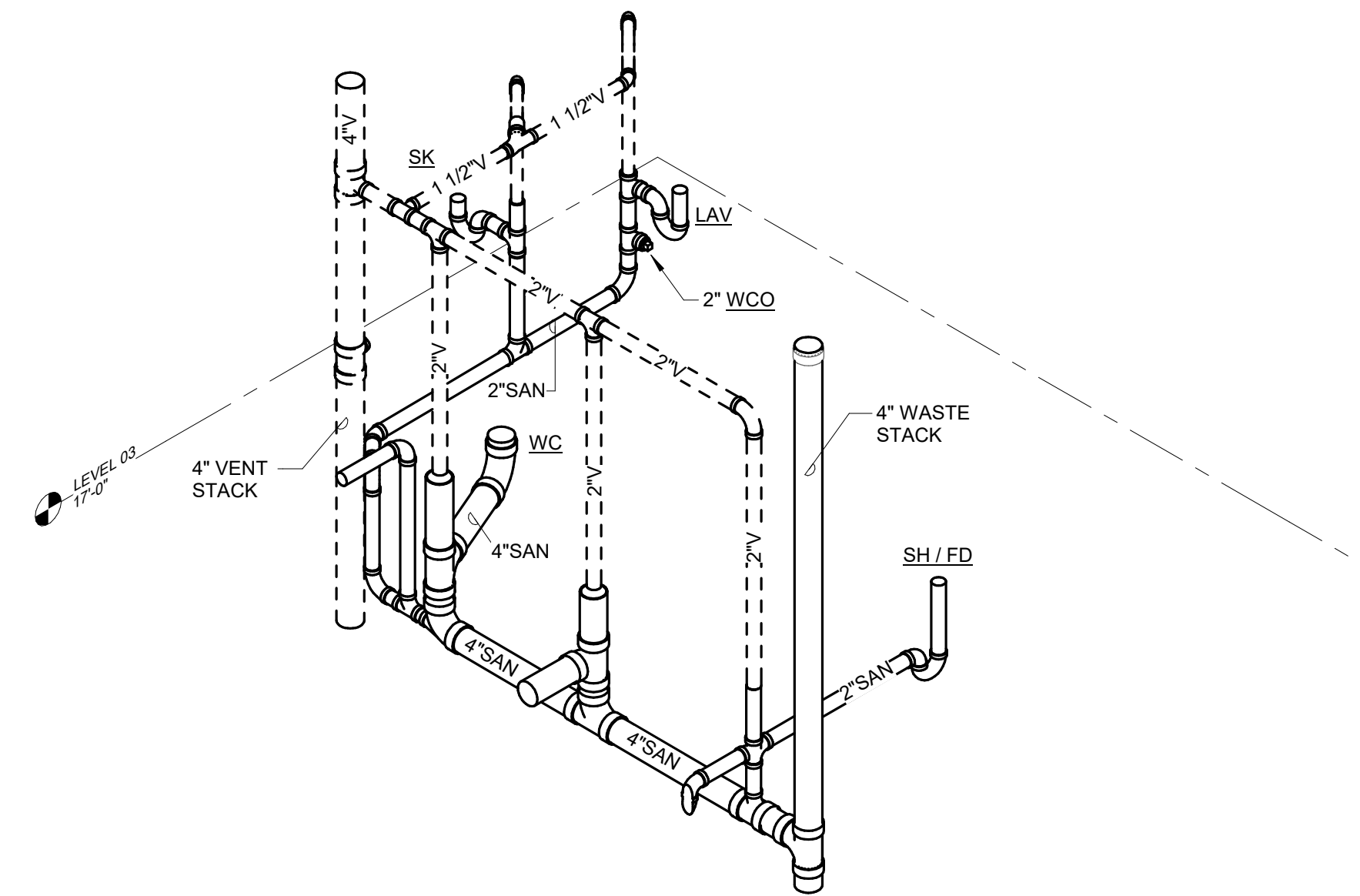
**CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
HOUSING DEPARTMENT**
Project Number: AH10010002

Gensler

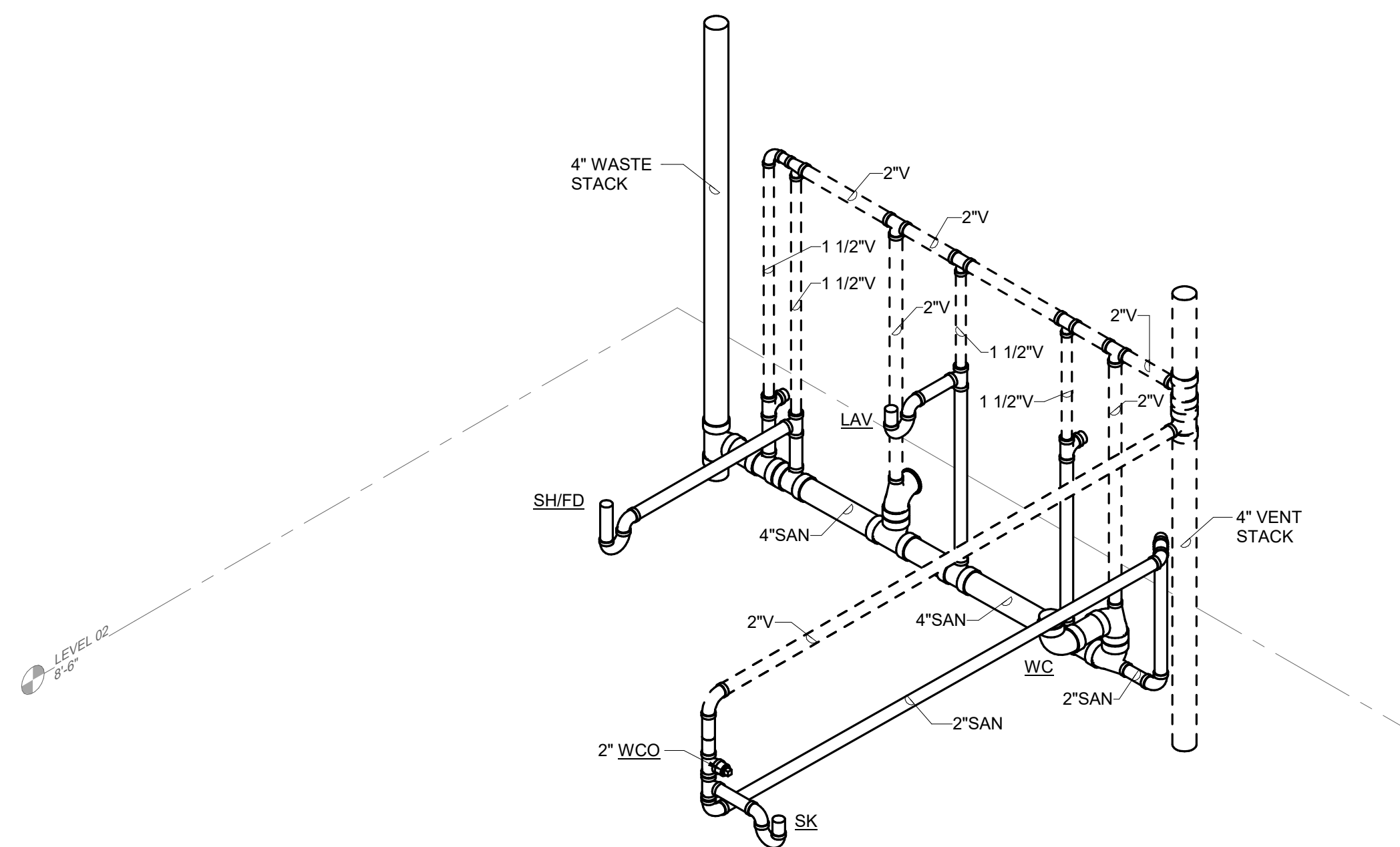
Patrick Magness
2575 E Camelback Rd
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Phoenix, AZ 85016
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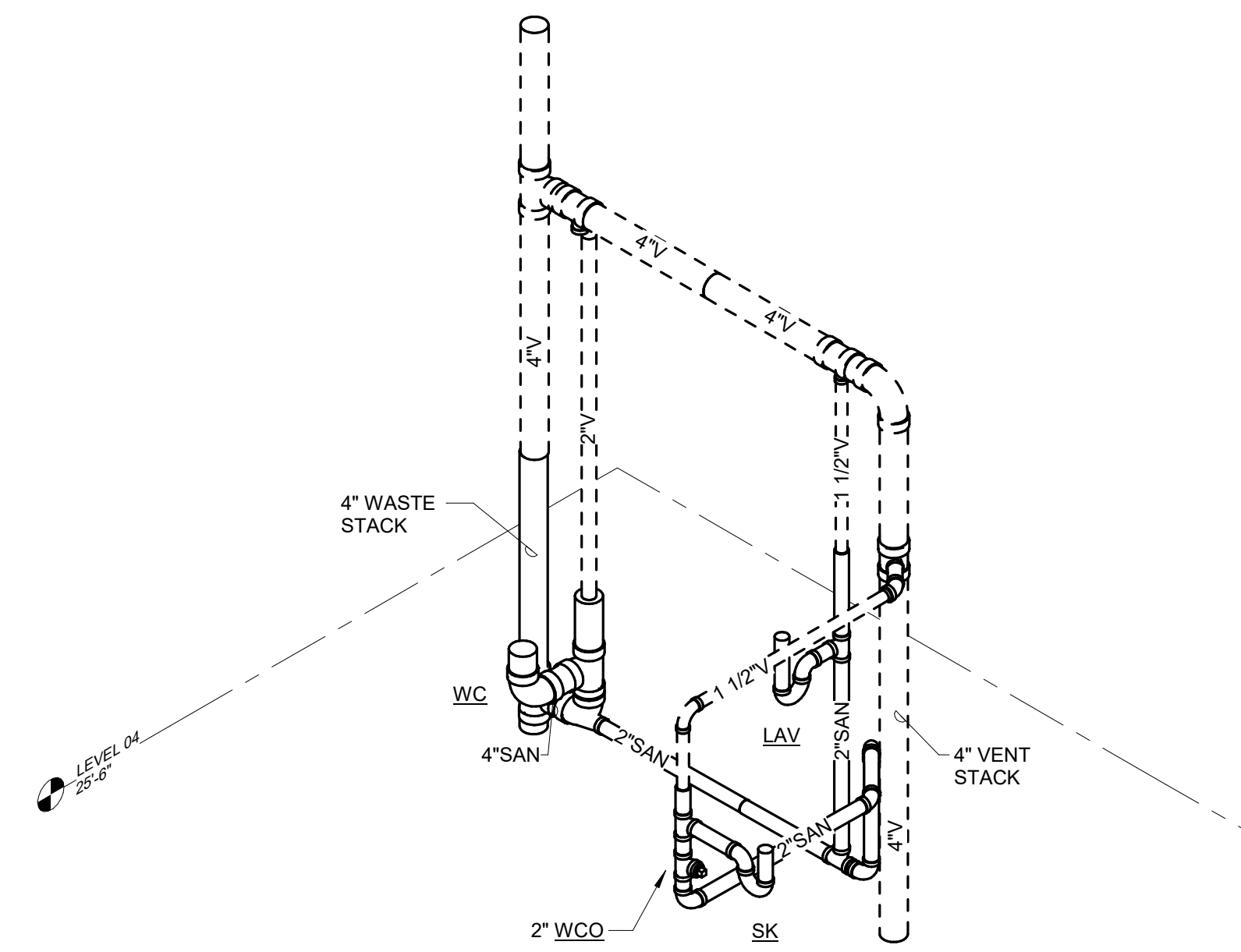
1 TYPICAL UNIT TYPE "D" - WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE



2 TYPICAL UNIT TYPE "D1" - WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE



3 TYPICAL UNIT TYPE "D.2" - WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE



4 TYPICAL UNIT "G" - WASTE & VENT ISOMETRIC DIAGRAM
NO SCALE

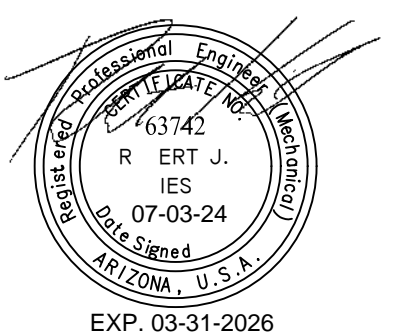
Date	Description
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KIVA #

SDEV #

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Seal / Signature



Project Name

ARPA U.S. VETS Miscellaneous Repairs & Improvements

Project Number

57.8221.000

Description

PLUMBING ISOMETRIC DIAGRAMS.

Scale

P 5.02

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