

NEW HOLDING CELL PROJECT

Superior Court of Kern County
 Shafter-Wasco Court
 325 Central Valley Highway
 Shafter, California 93263

BLDG ID # 15-E1
 SWO # 1026955

PROJECT

COUNTY OF KERN

**SHAFTER -
 WASCO
 SUPERIOR
 COURT**

**325 Central Valley Hwy
 SHAFTER, CALIFORNIA**

CLIENT JOB # ARCHITECT JOB #
 1003

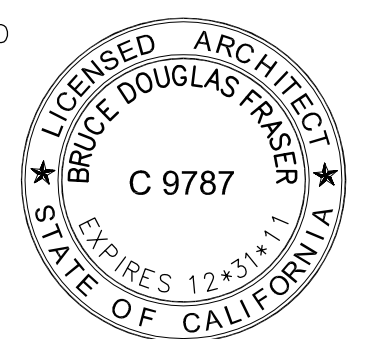


PROJECT MANAGER BDF

DRAWN BY BS

DATES 07-07-10
 09-10-10
 10-18-10 PLAN CHECK 1
 11-23-10 PLAN CHECK 2
 12-30-10 PLAN CHECK 3
 08-15-11 FOR CONSTRUCTION

SIGNED



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SHEET TITLE

TITLE SHEET

SHEET #

T.1

PROJECT DATA

PROJECT DESCRIPTION: Remodel of existing office space to create two new holding cells, interview room, and access/egress hallway.
 ADDRESS: 325 Central Valley Highway, Shafter, CA 93263
 APM: Book xxx, Page xxx
 SITE AREA: 154,999 S.F.
 BUILDING AREA: 17,360 S.F.
 CBC CONSTRUCTION TYPE: TYPE VA
 CBC OCCUPANCY: B (OFFICE), A-3 (ASSEMBLY), I-3 (HOLDING)
 AREA OF REMODELING: 292 S.F.

GENERAL NOTES

- All work shall comply with the minimum standards of the following codes:
 - California Building Code, 2007 Edition
 - California Plumbing Code, 2007 Edition
 - California Mechanical Code, 2007 Edition
 - California electrical Code, 2007 Edition
 - California Code of Regulations Title 24
 - Americans with Disabilities Act
 - All accumulative supplements to the above codes
 - All applicable standards, ordinances and regulations of the agencies with jurisdiction over the work
- The Contractor shall verify all existing conditions for dimension, grade, configuration, and other aspects of compatibility with the work described in these Construction Documents. Any conditions which interfere with the work shall immediately be brought to the attention of the Architect and the work shall not proceed in the areas of conflict until such conflicts have been resolved.
- Written dimensions shall take precedence over drawing scale or proportion.

DIRECTORY

OWNER:
 SUPERIOR COURT OF CALIFORNIA
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 ADMINISTRATIVE OFFICE OF THE COURTS
 2860 GATEWAY OAKS DRIVE
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CONTRACTOR:
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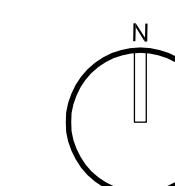
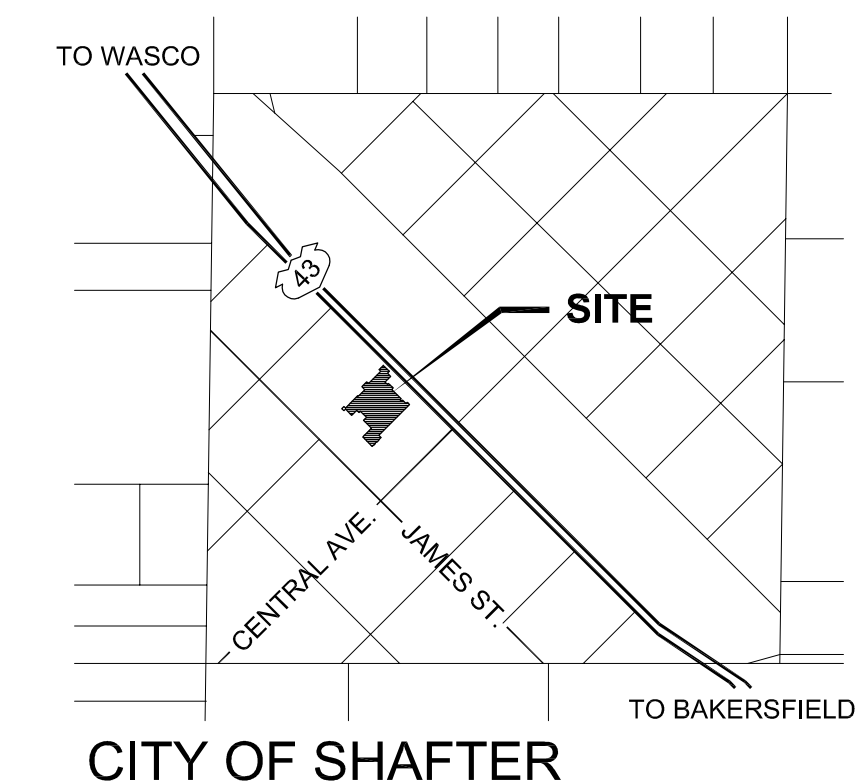
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 1009 MORRO STREET
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MECHANICAL ENGINEER:
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- A.5 SIGNAGE PLAN, SIGNAGE DETAILS
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VICINITY MAP



**SHAFTER HOLDING CELL PROJECTS
ADMINISTRATIVE OFFICE OF THE COURTS**

DIVISION 1: GENERAL

01000 DESCRIPTION OF THE WORK

Work under this contract provides for demolition and new construction associated with holding cells and interview room. The project is located at 325 Central Valley Highway, Shafter, California.

01010 DEFINITIONS

- Throughout these drawings and specifications, the following definitions apply:
- A. "Owner" or "Owner's Representative" shall refer to the Superior Court of California, or any of the Court's or Administrative Office of the Court's specifically assigned representatives.
 - B. "Contractor" shall refer to Chamblin-Landes Construction and any subcontractor who, by contract with or employment by the Owner, is responsible for the execution of some portion of the work.
 - C. "Architect" shall refer to Fraser Seiple Architects, or any of their specifically assigned project staff.
 - D. "Engineer" shall refer to any engineering consultant specifically referenced in a given note or section of these specifications.

01100 SPECIAL PROJECT PROCEDURES

Contractors shall make every effort to protect existing improvements, neighboring property and construction in place as the work progresses. Any damage to such existing improvements, neighboring property, or construction resulting from acts of a Contractor shall be repaired to the satisfaction of, and at no additional cost to, the Owner.

Contractors shall control the spread of dust to the public right-of-way in compliance with Delano City requirements.

Construction activities are limited to the hours of 6:00 p.m. through 12:00 a.m., Monday through Friday, or 7:00 a.m. through 6:00 p.m., Saturday and Sunday, unless other arrangements are made with the Court in advance.

Solid waste generated during construction shall be gathered and removed from the site in compliance with Delano City requirements. Cleaning of concrete, plaster and similar material containers or tools shall not produce runoff that leaves the property or enters the storm drainage system. Every effort shall be made to recycle waste produced by construction.

01330 SUBMITTALS

Shop drawings, samples, and product data submittals shall be made as described in individual sections of these specifications for review prior to the ordering or delivery of materials to the jobsite. Submittals shall be transmitted to the Architect in the quantities required for the Contractor's use plus one for the Architect's records.

01400 TESTING AND INSPECTION

Contractors are not required to provide laboratory testing in connection with construction; however, any Contractor shall schedule and cooperate with any testing or field inspection required by the specifications, the Architect, applicable building codes, or the Administrative Office of the Courts inspectors, and shall replace or correct work which fails to meet the requirements of the specifications when tested.

01600 SUBSTITUTIONS AND ALTERNATES

Substitutions or alternates to the materials, assemblies, or products described in the drawings and specifications will be acceptable only if approved in advance by the Owner.

01700 CLOSEOUT PROCEDURES

At the completion of construction the Contractor shall deliver to the Owner copies of operation and maintenance manuals, spare parts lists, guarantees and warranties for products and equipment installed in the work, as well as as-built drawings indicating the location of any concealed installations that vary from the position and alignment indicated on working drawings.

The Contractor shall provide demonstration or instruction to the Owner's representative(s) for building equipment and systems.

DIVISION 2: SITE WORK

02050 DEMOLITION

Demolition shall be as described on the drawings, and as necessary to accommodate new installations.

Temporary barricades shall be erected and maintained to keep members of the public at a safe distance from demolition and construction operations. Existing construction and items to remain shall be protected.

The contractor shall immediately notify Owner's Representative of contaminated, hazardous, or potentially dangerous materials encountered; proceed with removal and disposal as directed.

02200 EARTHWORK

Soil in the area of new footings and plumbing trenches shall be excavated to a minimum of 12" below the bottom of new installations. Moisture condition and compact non-expansive granular fill material at footings to approximately the same density as existing subgrade. Assumed bearing is 2,000 psi. See additional notes on structural drawings.

Bedding and backfilling at new below-grade plumbing installations shall comply with notes on mechanical/plumbing drawings.

DIVISION 3: CONCRETE

03300 CAST IN PLACE CONCRETE

Concrete footings and slab shall be configured and reinforced as indicated in the drawings, and shall meet the requirements of Structural Notes on the structural drawings. Concrete strength testing required. Concrete materials shall be as specified in structural notes and as follows:

Cement: Portland Type II, per ASTM C150
Fine Aggregate: per ASTM C33
Coarse Aggregate: per ASTM C535
Water: clean, potable, free of contaminants
Reinforcing Steel: Intermediate (Grade 40) bars per ASTM A615
Admixtures: none specified

03600 GROUT

Cementitious grout for concrete anchoring and patching shall be high strength, non-shrinking; Burkestone or equivalent. Product data submittals are required.

DIVISION 4: MASONRY

04220 CONCRETE UNIT MASONRY

New concrete block walls shall be configured and reinforced as indicated in the drawings and structural notes. Materials shall be as follows:

Concrete Block: "Precision" units per ASTM C90, in sizes indicated in drawings, natural gray color
Mortar: per ASTM C270, Type S
Grout: per ASTM C94, minimum 2,000 psi strength at 28 days
Reinforcing Steel: Intermediate (Grade 40) bars per ASTM A615

DIVISION 5: METAL

05500 MISCELLANEOUS METALS

Metal fabrications for this work include, but are not limited to privacy screens in cells and structural welding and bolting. Shop drawings are required for structural components and must receive Architect's approval prior to fabrication. Materials shall be as follows:

Structural Steel: per ASTM A36
Stainless Steel: per ASTM T304
Primer: red iron oxide per FS TT-P-31
Galvanizing: zinc galvanized coating per ASTM A123, A153, and A386
Welding Materials: per AWS D1.1

Structural welding shall only be performed by certified journeyman welders. All exposed-to-view cuts and welds shall be deburred and ground smooth and even. Exposed-to-weather metal fabrications shall be made in the largest pieces manageable and primed, galvanized, or powder coated prior to delivery to the project site.

DIVISION 6: WOOD AND PLASTIC

06100 ROUGH CARPENTRY

Lumber strength, grading requirements and connector requirements shall be as indicated in Structural Notes on the structural drawings:

Beams, girders, and posts: DF-L No. 1 or better joists, rafters, headers, plates, blocking, 2 X 6 thru 4 X 16, and misc. wood not specifically described: DF-L NO. 2 or better
Wall framing, 2 X 2 thru 4 X 6 (except headers): DF-L Stud grade or standard and better
Sheathing: Plywood conforming to U.S. Product Standard PS-1-83,
Group 1 or 2, or APA Performance Rated Panels (plywood, composite board, oriented strand board). Roof or wall sheathing plywood shall bear the designation CDX Structural II or better.

All framing shall be laid out accurately to the line and dimension shown on the drawings. Notching of studs and joists is not allowed: boring of studs and joists to accommodate plumbing or electrical installations is subject to the approval of the Structural Engineer. Provide all backing, blocking, stripping, furring, false framing, and other miscellaneous support to allow the work of other trades to proceed. Where shear panels do not cover the full extent of wall surface, provide additional sheathing or furring to create a continuous substrate for finishes.

DIVISION 7: THERMAL AND MOISTURE PROTECTION

07200 BUILDING INSULATION

Interior wall sound insulation shall be unfaced fiberglass batts, friction fit between framing members and wired as necessary. Design is based on the products of Owens-Corning Company Fiberglas Corporation. Product data and test result submittals are required. Materials shall be as follows:

3-1/2" Sound Insulation: per ASTM C423
Flammability of Materials: per ASTM E136
Fire Classification (Class A): per UL Standards 790, 1256

07270 FIRESTOPPING

Provide fire retardant insulation, manufactured fire barrier systems, fire caulking and sealant, firestopping systems, and related materials as required to maintain the continuity and integrity of fire rated assemblies in new construction, particularly at annular spaces around penetrations; Hilti "Firestop" or 3M "Fire Barrier" products or equivalent, with any primers or accessories recommended by manufacturer. Product submittals are required.

07900 CAULKING AND SEALANTS

Caulking and sealants which match the color of adjacent surfaces shall be used as indicated in the drawings and additionally as required to prevent the entry of water or outside air into exterior assemblies, and in bathrooms to control the penetration of moisture. Caulking materials shall be chosen for specific applications as recommended by the manufacturers and backing rods shall be applied where appropriate; caulking beads shall be clean, slightly concave, and excess material shall be immediately cleaned from adjacent surfaces. Materials shall be as follows:

Polysulphide Sealant: Morton-Thiokol or equivalent
Acrylic Emulsion Latex: Red Devil or equivalent
Butyl Sealant: Red Devil or equivalent
Silicone Sealant: General Electric or equivalent
Polyurethane Sealant: Sonneborn or equivalent
Use of Latex Sealing Compound: per ASTM C790
Use of Solvent-Release Type Sealants: per ASTM C804
Sealing Compound: Elastomeric Type, Multi-Component: per FS TT-S-00227
Sealing Compound: Elastomeric Type, Single Component: per FS TT-S-00230
Sealing Compound, Silicone Rubber Base: per FS TT-S-001543
Sealant and Caulking Guide Specification: per SWI (Sealing and Waterproofer Institute)

DIVISION 8: WINDOWS AND DOORS

08100 METAL DOORS AND FRAMES

Rated metal doors and frames shall be provided as indicated in the Door Schedule. Design is based on the following materials and manufacturers:

Interior Passage Doors: flush panel primed, rated 18 gauge steel; Republic DM series or equivalent.
Interior Passage Door Frames: mitered primed, rated 16 gauge steel; Republic MG series or equivalent.
Interior Holding Cell Doors/Frames: internally reinforced steel doors and frames, primed and factory prepared for hardware and custom view lites; Trussbilt Detention Security doors and frames or equivalent.
Plumbing Chase Frames: mitered primed, non-rated 18 gauge steel; Republic MG series or equivalent.

Shop drawing and product data submittals are required

08200 WOOD DOORS

Interior non rated solid core wood doors at plumbing chases shall be provided in the configurations shown in the Door Schedule. Design is based on the following materials and manufacturers:

Flush Panel Interior Doors: stain grade hardwood over solid particle board or lumber core (solid core); Eggers Industries or equivalent MDF faced

Product data and sample submittals are required. All doors shall be adjusted to close easily and fit snugly in frames. Wood doors shall be per the following guidelines:

ANSI/NWMA I.S.1: Industry Standard For Wood Flush Doors
WIC Manual: "Premium" grade; Section 12 Architectural Wood Doors

08650 SPECIAL WINDOWS

Fixed window with speaker at the interview room shall be aluminum, with laminated glazing, in the configurations shown in the Window Schedule and window details; Interbank equipment transaction window or equivalent, with a natural anodized finish. Install natural voice talk-thru device; Pacific Bulletproof Model 6-D or equivalent. Product data, sample submittals, shop drawing and material list submittals require Architect's approval before windows are ordered.

08700 FINISH HARDWARE

Unless otherwise noted, door hardware finishes shall be US26D dull or brushed chrome. All final hardware selections are subject to the Architect's approval; product data and materials list submittals require approval before hardware is ordered. Specific door hardware components shall be as described in the Door Hardware Schedule.

Finish hardware shall be per the following guidelines:

ANSI A117.1, CAC Title 24, U.S. Dept. of Justice 28 CFR Part 36 (ADA) - Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People
AWI: Architectural Woodwork Institute
BHMA: Builders' Hardware Manufacturers Association
DHI: Door and Hardware Institute
NFPA 101: Life Safety Code
Underwriters Laboratories Inc.: applicable reports

08800 GLASS AND GLAZING

Window glass at the interview room and door glass in cell doors shall be glass-clad polycarbonate, clear, with a minimum protection level of 2, Pacific Bulletproof Company product PBBRGPC2 or equivalent. Product data and submittals are required.

Glass and glazing shall be per the following guidelines:

ASTM C1349 - 04 Standard Specification for Architectural Flat Glass Clad Polycarbonate

ANSI Z97.1: Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings

"Manual of Glazing" of the Flat Glass Marketing Association

DIVISION 9: FINISHES

09250 GYPSUM DRYWALL

Gypsum drywall shall be installed as indicated in the Finish Notes and details. Product data and materials list submittals required. Materials shall be as follows:

Gypsum Panels at Ceilings and Walls: 5/8" panels; U.S. Gypsum or equivalent
Accessories: galvanized steel corner reinforcement at outside corners in bullnose profile at vertical corners and square profile at horizontal corners, fiberglass web at bridging conditions; U.S. Gypsum or equivalent
Texture: Level 4, flat/smooth.

Finish texture is subject to Tenant and Architect approval of a field sample. Gypsum drywall shall be per the following guidelines:

Gypsum Association publication GA 216.
ASTM C 36.
ASTM C 475.

09900 PAINTING

Paint and related coatings shall be applied as indicated in the drawings. Paint products shall be Sherwin Williams or equivalent, as approved by the Architect. Surface preparation, application and total mil thickness shall be as recommended by the paint or coating manufacturer for the subject surface.

Interior cell walls and ceilings: low VOC water based block sealer, high-build catalyzed, water based epoxy, semi-gloss texture
Interior walls and ceilings, other: low VOC sealer/primer, two coats low VOC acrylic latex wall paint, semi-gloss texture
Interior metal trim: low VOC high hiding metal primer, two coats water based alkyd acrylic enamel, semi-gloss texture
Paint grade interior wood doors: low VOC high hiding wood primer, two coats water based acrylic latex trim paint, semi-gloss texture
Exterior exposed metals: industrial metal primer, two coats low VOC industrial alkyd acrylic enamel paint, semi-gloss texture
Floors: high-build industrial filler/primer and high-solids institutional epoxy coating, solid color with integral aggregate, semi-gloss texture

Colors shall be as selected by the Architect.

Product data, materials list and brushout submittals required. Painting shall be per the following guidelines:

ANSI/ASTM D16: Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products
ASTM D2016 - Test Method for Moisture Content of Wood

DIVISION 10: SPECIALTIES

10100 PRIVACY SCREENS

Privacy screen panels shall be color-thru solid HDPE panels mounted to custom stainless steel frames per details; Santana or equivalent, in standard color as selected by the Architect

10400 SIGNAGE

Identifying and direction signage shall be installed at walls as described in drawings. Wall mounted interior and exterior room identification and accessible exit signs shall be Scott Sign Systems engraved photopolymer plaque signs or equivalent, with Grade 2 Braille where required. Vinyl accessibility symbols shall be applied to glass surfaces: Scott Sign Systems or equivalent. Product data, shop drawings and sample submittals required.

DIVISION 11: EQUIPMENT

11100 DETENTION EQUIPMENT

Cell benches shall be floor mounted 11 ga. stainless steel benches on 2" diameter powder coated steel pipe posts and 6" x 6" square mounting plates, as manufactured by Bob Barker Company or equivalent. Lay out per drawings and mount with stainless steel security bolts into wedge anchors per manufacturer's recommendations. Seats shall have smooth, rounded edges and corners compliant with California Title 24, Part 1, Section 13-102 and Part 2, Section 470A standards.

Cell mirrors shall be highly polished stainless steel in 16 ga. chrome steel frames, with rounded corners and tamper resistant fasteners, as manufactured by Bob Barker Company or equivalent. Mirror dimensions shall be 12-1/2" wide x 16-1/2" tall; mount above comby toilet/sink with bottom edge no more than 40" above the floor.

Wall mounted swing stool for interview room shall be 14ga. stainless steel with smooth rounded edges and corners, mounted to the wall with tamper proof stainless steel fasteners, model WMS-200 by PSI LLC or equivalent.

DIVISION 12: FURNISHINGS

(not used)

DIVISION 13: SPECIAL CONSTRUCTION

(not used)

DIVISION 14: VERTICAL TRANSPORTATION

(not used)

DIVISION 15: MECHANICAL SYSTEMS

15300 FIRE PROTECTION SYSTEM

The building fire sprinkler system shall be per NFPA standard 13; product data, hydrostatic calculations and shop drawing submittals are required. Materials shall be as follows:

Piping: Black iron per approved shop drawings.
Holding cell heads: Viking Institutional style flush or equivalent.
Public view heads: Viking Mirage concealed or equivalent.
Utility room heads: Viking standard pendent or equivalent.

15400 PLUMBING

Plumbing fixtures require product data submittals. Piping systems inside building require as-built drawings. Materials shall be as listed in notes on mechanical / plumbing drawings.

15600 HEATING, VENTILATING, AND AIR CONDITIONING

Extension of existing space conditioning system will require product data submittals and as-built drawings. Materials shall be as listed in schedules and notes on mechanical / plumbing drawings.

DIVISION 16: ELECTRICAL SYSTEMS

16400 ELECTRICAL SERVICE

Extension of building electrical service and switchgear shall be 120/208 volt, 3 phase, as described on electrical drawings and in electrical notes. Distribution of power shall be achieved with conventional duplex wall outlets, isolated ground where required. As-built drawings required.

16500 LIGHTING

Light fixtures and switching shall be provided as indicated on the drawings and in the Light Fixture Schedule; alternatives to the specified light fixtures require the Architect's and Tenant's approval of submittal materials. All light fixtures shall have manufacturer's recommended lamp installed, chosen for consistent color temperature throughout the installation and per CCR Title 24. Materials shall be as described in Light Fixture Schedule.

16720 ALARM SYSTEMS

Extension of the building fire alarm system shall be provided per AOC specification, based on approval of product data, shop drawing submittals provided by the Contractor to the City Fire Department and Building Department. The Contractor shall coordinate the installation of, and provide power to, any intrusion or security alarm systems provided by the Tenant's vendors.

16740 COMMUNICATIONS

Holding cells shall have sound-activated audio monitoring microphones as indicated on electrical drawings, Louroe Electronics Verifact D-V or equivalent, with base station and all required accessories. Extension of the building communication and data infrastructure shall be provided per AOC specifications, based on approval of product data submittals. As-built drawings required.

PROJECT

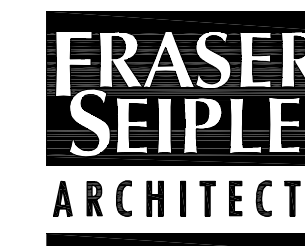
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**325 Central Valley Hwy
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1003

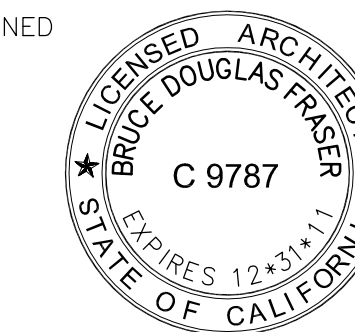


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SHEET TITLE

SPECIFICATIONS

SCALE : NONE

SHEET #

T.2

PROJECT
COUNTY OF KERN
SHAFTER - WASCO SUPERIOR COURT

325 Central Valley Hwy
 SHAFTER, CALIFORNIA

CLIENT JOB # ARCHITECT JOB #
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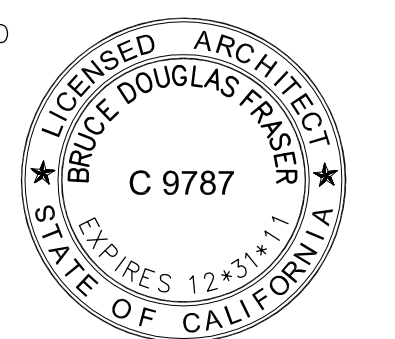


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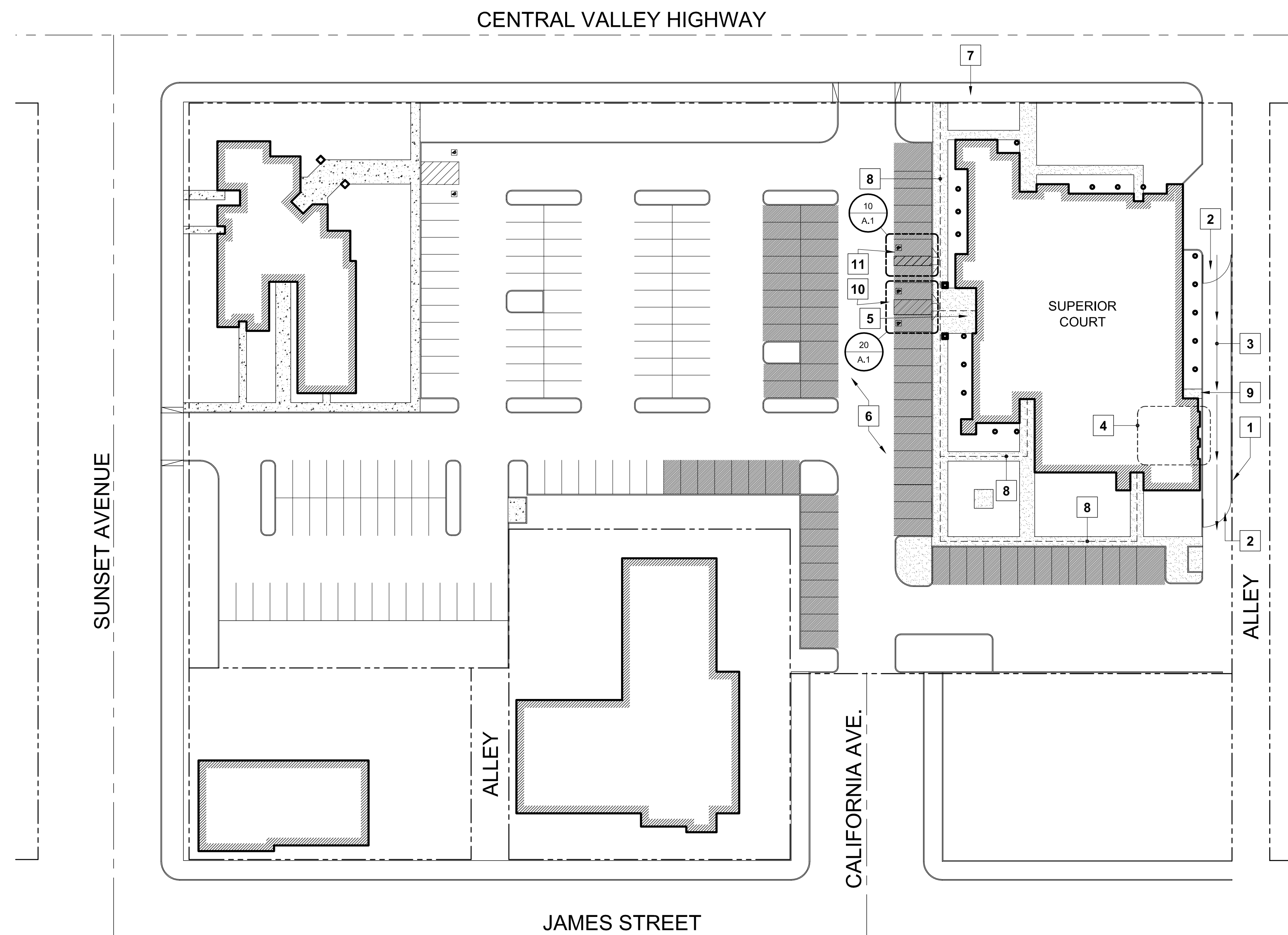
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SITE, OVERALL PLAN

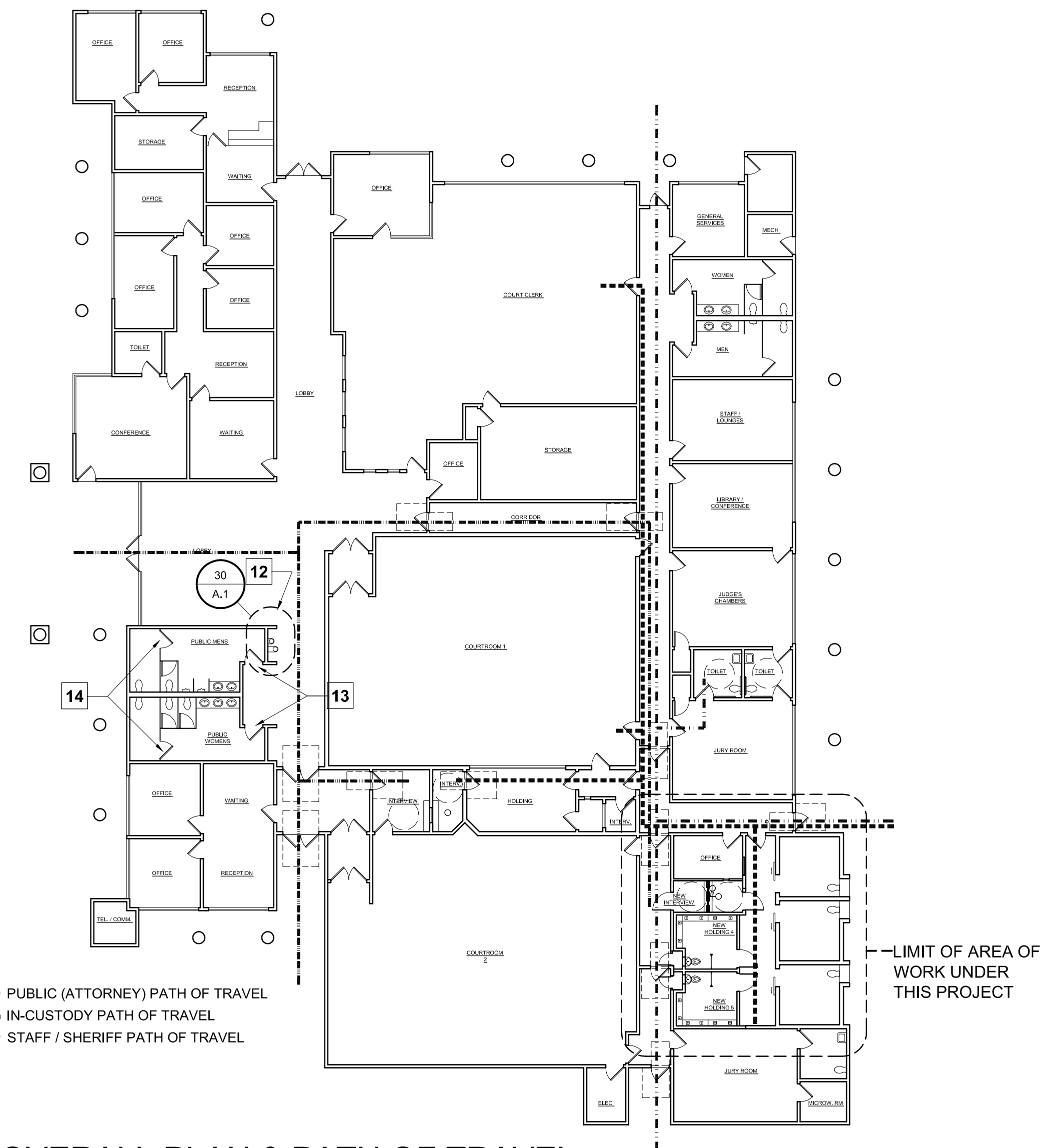
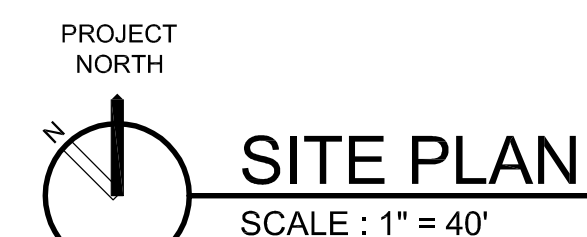
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A.1

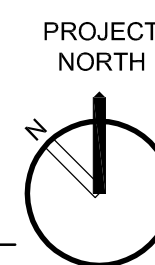


SITE & OVERALL PLAN KEYNOTES

- CONCRETE BLOCK SECURITY ENCLOSURE
- SWINGING VEHICLE GATE
- IN-CUSTODY TRANSPORT PATH OF TRAVEL
- LIMIT OF AREA OF WORK UNDER THIS PROJECT
- PUBLIC ENTRANCE
- PUBLIC PARKING; SHADED SPACES ARE ASSIGNED TO COURTHOUSE
- SIDEWALK ("PUBLIC WAY")
- ACCESSIBLE PATH OF TRAVEL TO THE PUBLIC WAY: MAX. SLOPE 5% IN DIRECTION OF TRAVEL; MAX. CROSS-SLOPE 2% IN ANY DIRECTION
- ACCESSIBLE LANDING AT SALLY PORT DOOR, NO IN-CUSTODY PATH OF TRAVEL BEYOND SECURED AREA.
- RESTRIPING EXISTING SPACES TO MEET CURRENT STANDARDS PER DETAIL 20/A.1; CONFIRM ALL SLOPES AND INSTALL NEW POLE SIGNS.
- RESTRIPING EXISTING SPACES TO MEET CURRENT STANDARDS PER DETAIL 10/A.1; CONFIRM ALL SLOPES AND INSTALL NEW POLE SIGNS.
- CONFIRM EXISTING HI-LO DRINKING FOUNTAIN MEETS REQUIREMENTS OF DETAIL 30/A.1; CORRECT IF REQUIRED.
- CONFIRM RESTROOM DOORS ARE NON-LATCHING
- CONFIRM RESTROOM INTERIORS AND FIXTURES COMPLY WITH CBC 1115B, CORRECT IF REQUIRED



- LEGEND**
- PUBLIC (ATTORNEY) PATH OF TRAVEL
 - IN-CUSTODY PATH OF TRAVEL
 - STAFF / SHERIFF PATH OF TRAVEL

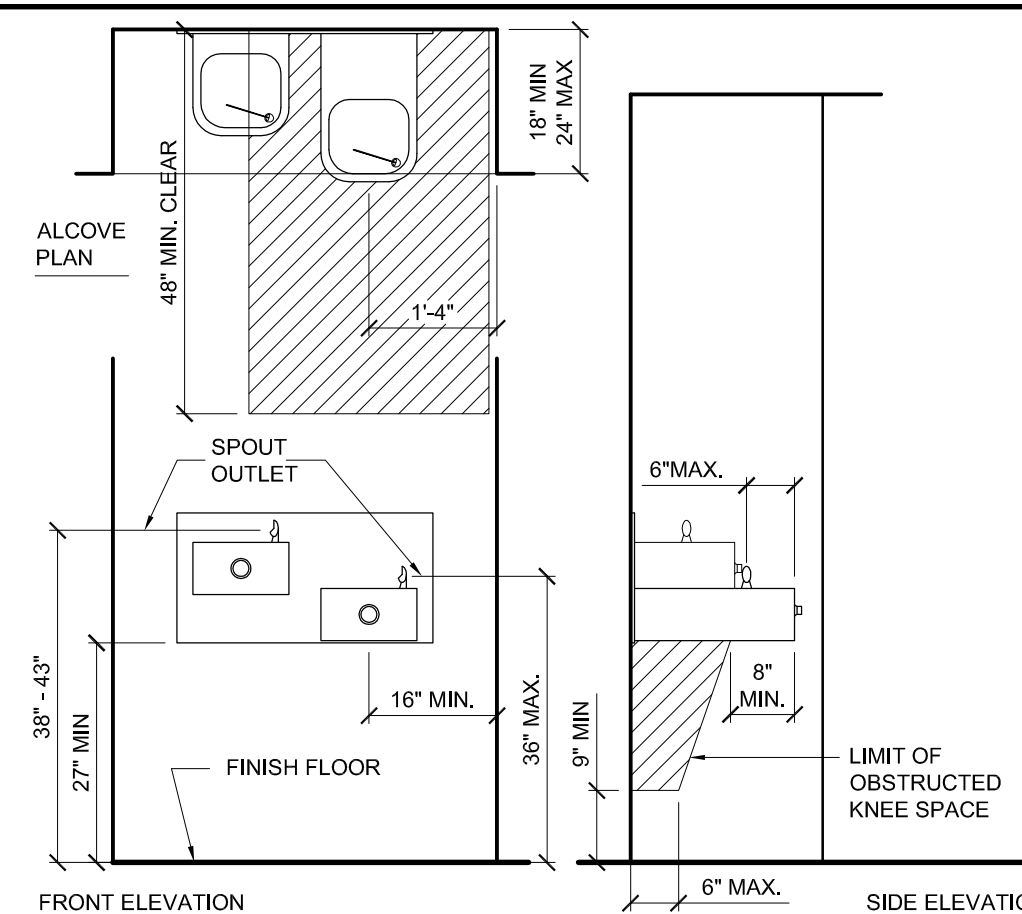


OVERALL PLAN & PATH OF TRAVEL

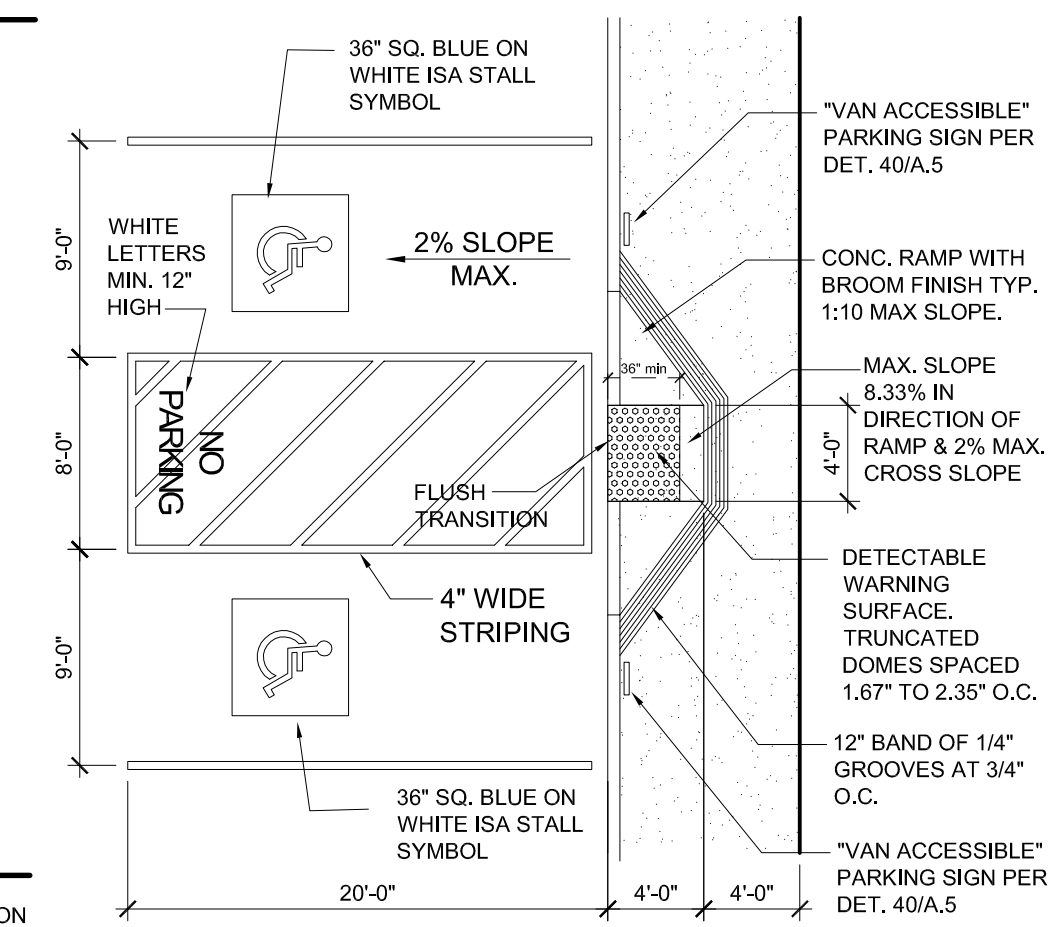
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ACCESSIBILITY NOTES

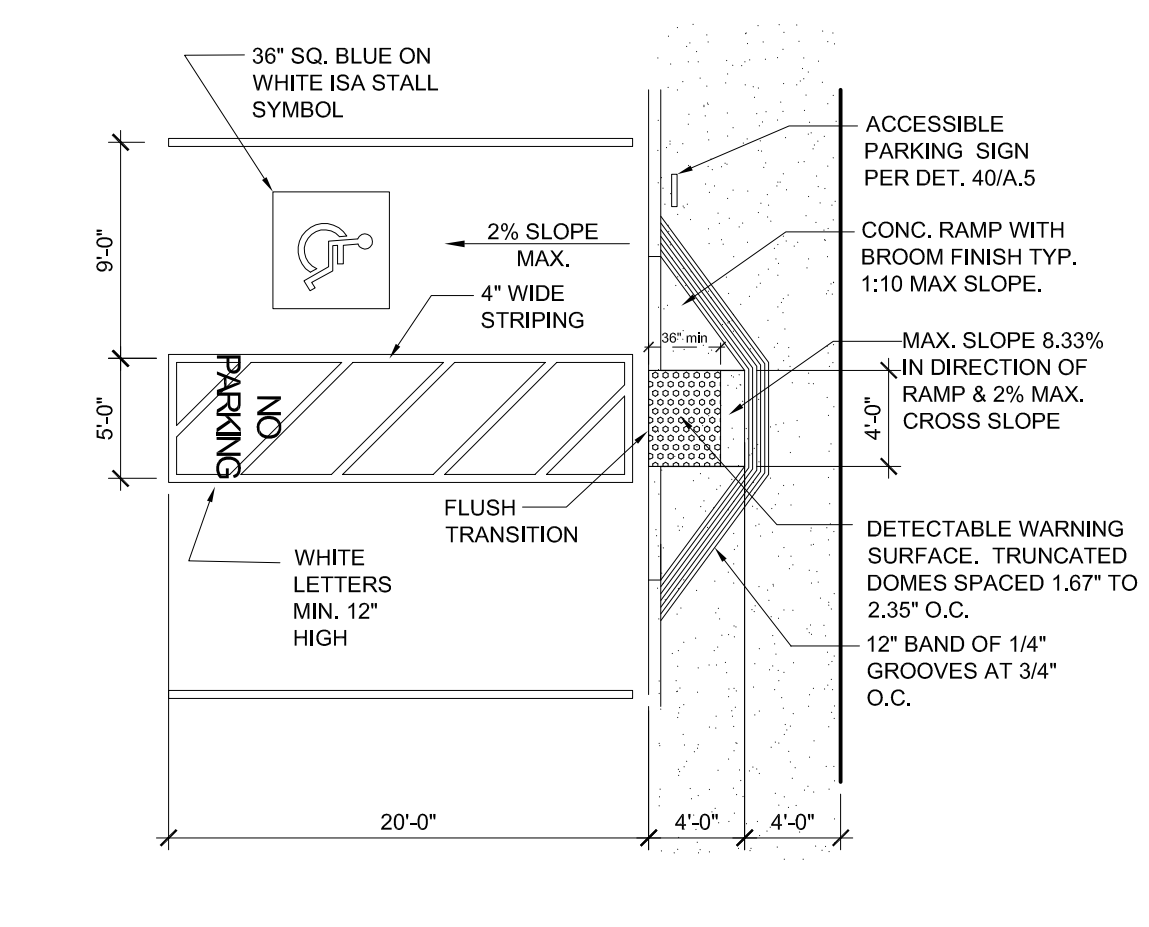
- The path of travel (P.O.T.) as indicated is a barrier free accessible route at least 48 inches wide without any abrupt vertical changes exceeding 1/2" at 1:2 maximum slope, except that level changes do not exceed 1.4" vertical. Maximum cross-slope 2% typical and maximum slope in the direction of travel is 5% or less, unless otherwise noted. P.O.T. shall be maintained free of overhead obstructions to 80" minimum (CBC 1133B8.2) and side objects protruding greater than 4" into P.O.T. between 27 and 80 inches above the finished floor (CBC 1133B8.6).
- Parking spaces assigned to Shafter Division Court building: 72; number of accessible parking spaces provided: 3 (CBC 1129B.1).
- All doors on indicated P.O.T.'s shall comply with applicable provisions of CBC 1133B, including:
 - The unlatching of any exit door shall not require more than one operation.
 - All exit doors shall be operable from the inside without the use of a key or any special knowledge.
 - Accessible door hardware shall be centered between 30 and 44 inches above the finish floor or landing, and shall be operated with single push-pull activating bars or other hardware designed to provide passage without requiring the ability to grasp the opening hardware.
 - Interior and exterior thresholds shall meet the level change limitations of item #1 above.
 - On doors that have closers the closer pressure shall not exceed 5 pounds for interior doors or 8.5 pounds for exterior doors.
 - The bottom 10 inches of all accessible doors shall have a smooth uninterrupted surface to allow the door to be opened by a wheelchair footrest.
 - Provide a level and clear landing on both sides of accessible doors, a minimum of 60" deep on the pull side and 48" deep on the push side, and extending a minimum of 18" beyond the latch jamb on the pull side of interior doors (24" at exterior doors), and a minimum of 12" beyond the latch jamb on the push side, unless the door is not equipped with a latch and closer.



30 ACCESSIBLE D.F.
 1/2" = 1'-0" D154006C



20 VAN ACCESSIBLE PRKG
 1/8" = 1'-0"



10 ACCESSIBLE PRKG
 1/8" = 1'-0"

PROJECT

COUNTY OF KERN

SHAFTER - WASCO SUPERIOR COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

CLIENT JOB # ARCHITECT JOB #
1003

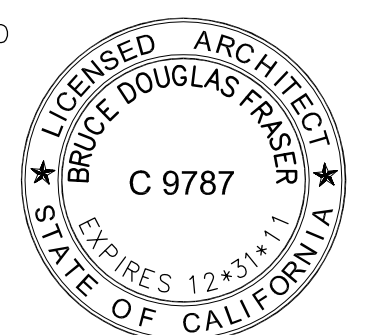


PROJECT MANAGER BDF

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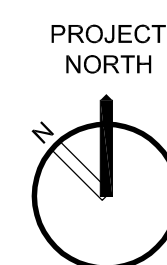
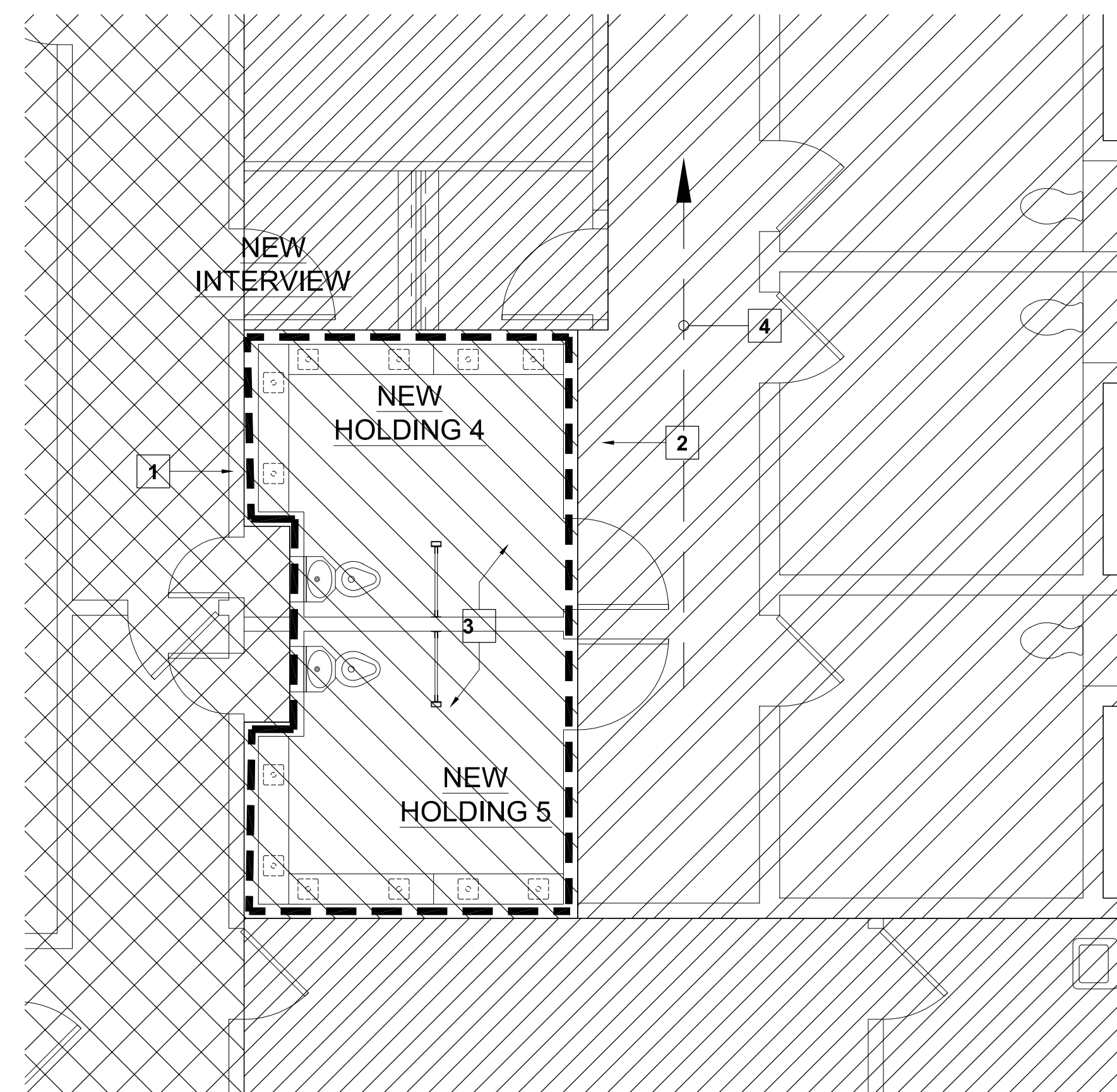
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SHEET TITLE

DEMOLITION PLAN,
CODE ANALYSIS

SHEET #

A.2



PROJECT NORTH

CODE ANALYSIS

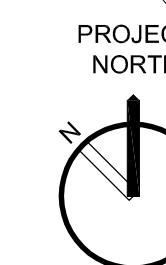
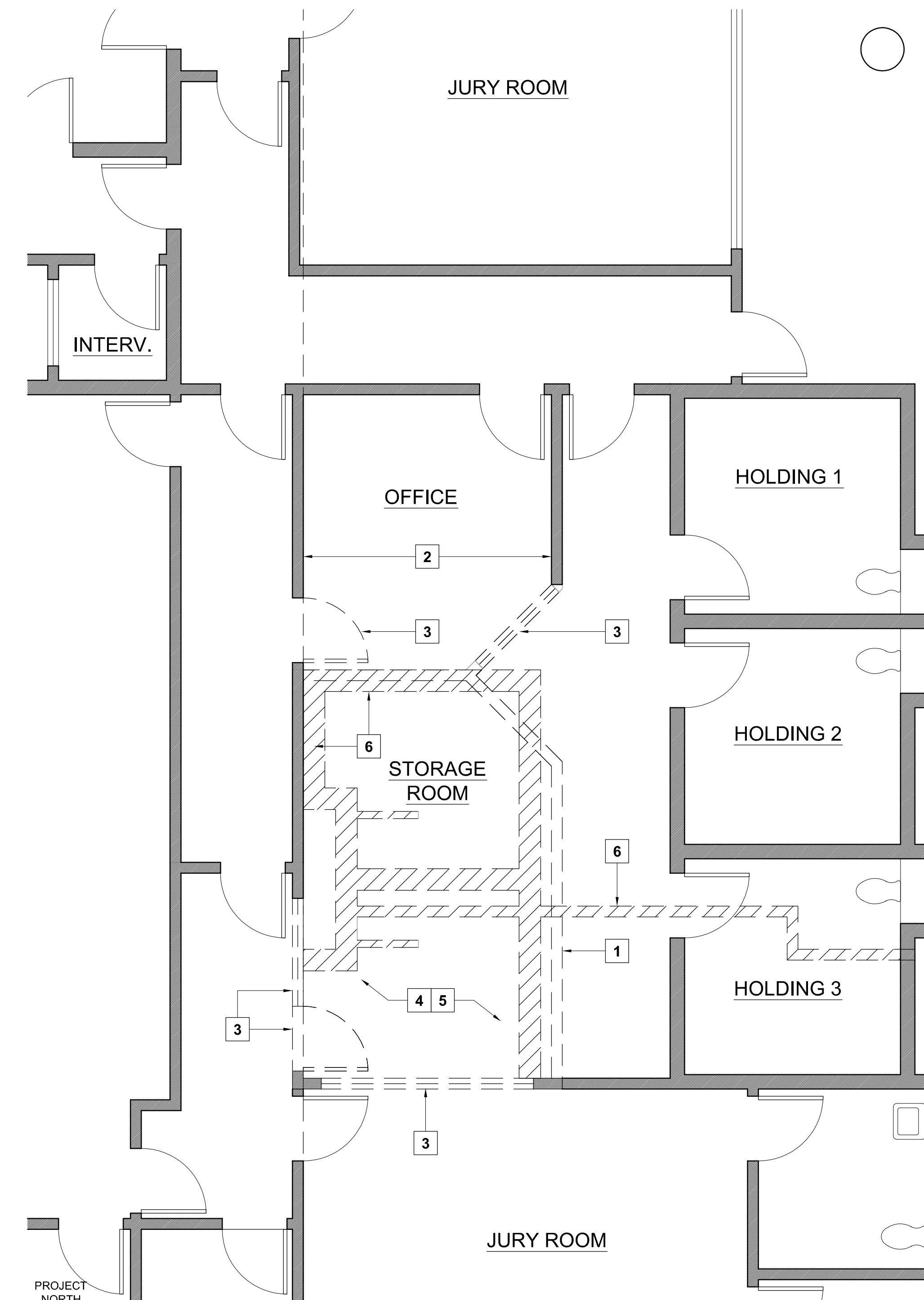
SCALE : 1/4" = 1'-0"

OCCUPANCY KEYNOTES

1. EXTENT OF CBC REQUIRED 2-HOUR VERTICAL BARRIER.
2. EXTENT OF CBC REQUIRED 1-HOUR VERTICAL BARRIER.
3. CBC REQUIRED 2-HOUR HORIZONTAL BARRIER AT ALL NEW "I" OCCUPANCY.
4. EXIT PATH OF TRAVEL FOR NEW "I" OCCUPANCY.

LEGEND

- EXISTING A-3 OCCUPANCY
- EXISTING B OCCUPANCY
- EXISTING I OCCUPANCY
- NEW I OCCUPANCY



PROJECT NORTH

DEMOLITION PLAN

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

DEMOLITION KEYNOTES

1. EXISTING WOOD FRAMED WALL TO BE DEMOLISHED AND REMOVED FROM SITE. PULL WIRING AND OTHER INSTALLATIONS INTO ATTIC SPACE TO CLEAR NEW CONSTRUCTION.
2. GYPSUM BOARD TO BE REMOVED AT INTERSECTION OF NEW WALL.
3. DOORS, WINDOWS, AND FRAMES TO BE REMOVED AND DELIVERED TO KERN COUNTY AS DIRECTED.
4. ALL FLOORING FINISHES TO BE REMOVED FROM SITE.
5. ALL CEILING TILES AND LIGHT FIXTURES TO BE REMOVED AND DELIVERED TO KERN COUNTY AS DIRECTED. CEILING SUSPENSION SYSTEM AND GYPSUM BOARD CEILING SURFACES TO BE REMOVED FROM SITE.
6. FLOOR SLAB TO BE SAWCUT AT AREAS OF NEW FOOTINGS AND WASTE PLUMBING AND REMOVED. RECYCLE PER KERN COUNTY STANDARDS.

LEGEND

- EXISTING WALL TO REMAIN AND PROTECT
- EXISTING TO BE REMOVED

SHAFTER - WASCO SUPERIOR COURT

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SHAFTER, CALIFORNIA

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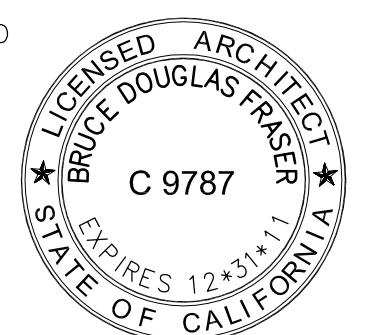


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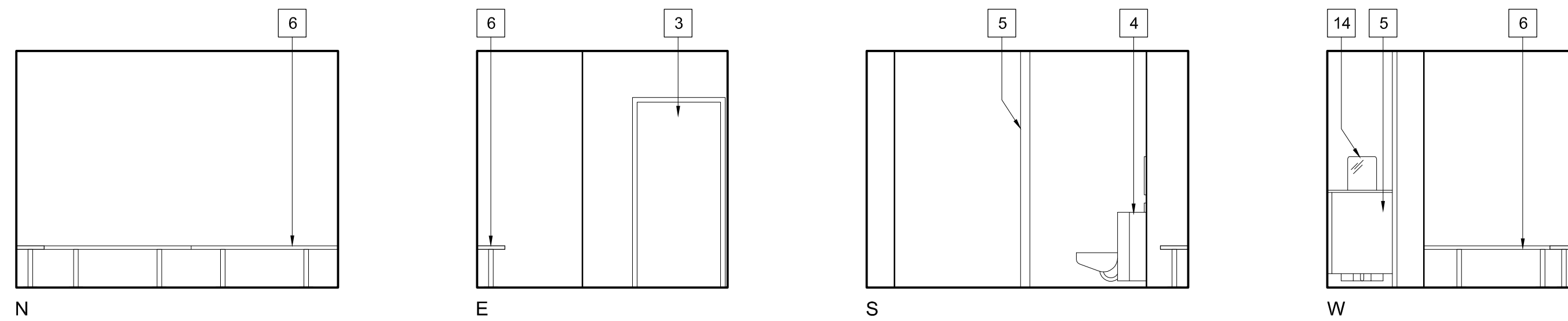
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SHEET TITLE

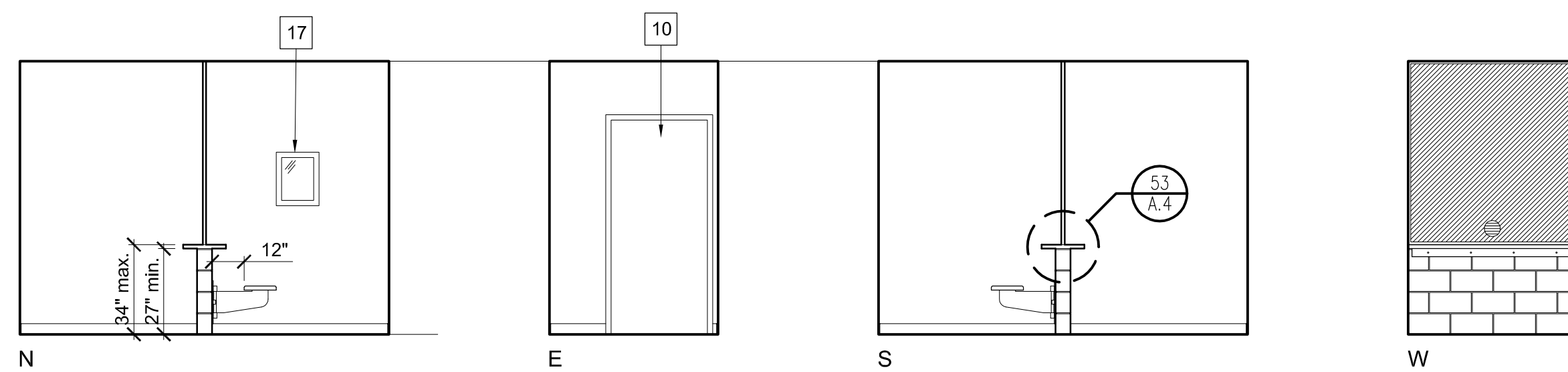
REMODEL PLAN,
INTERIOR ELEVATIONS

SHEET #

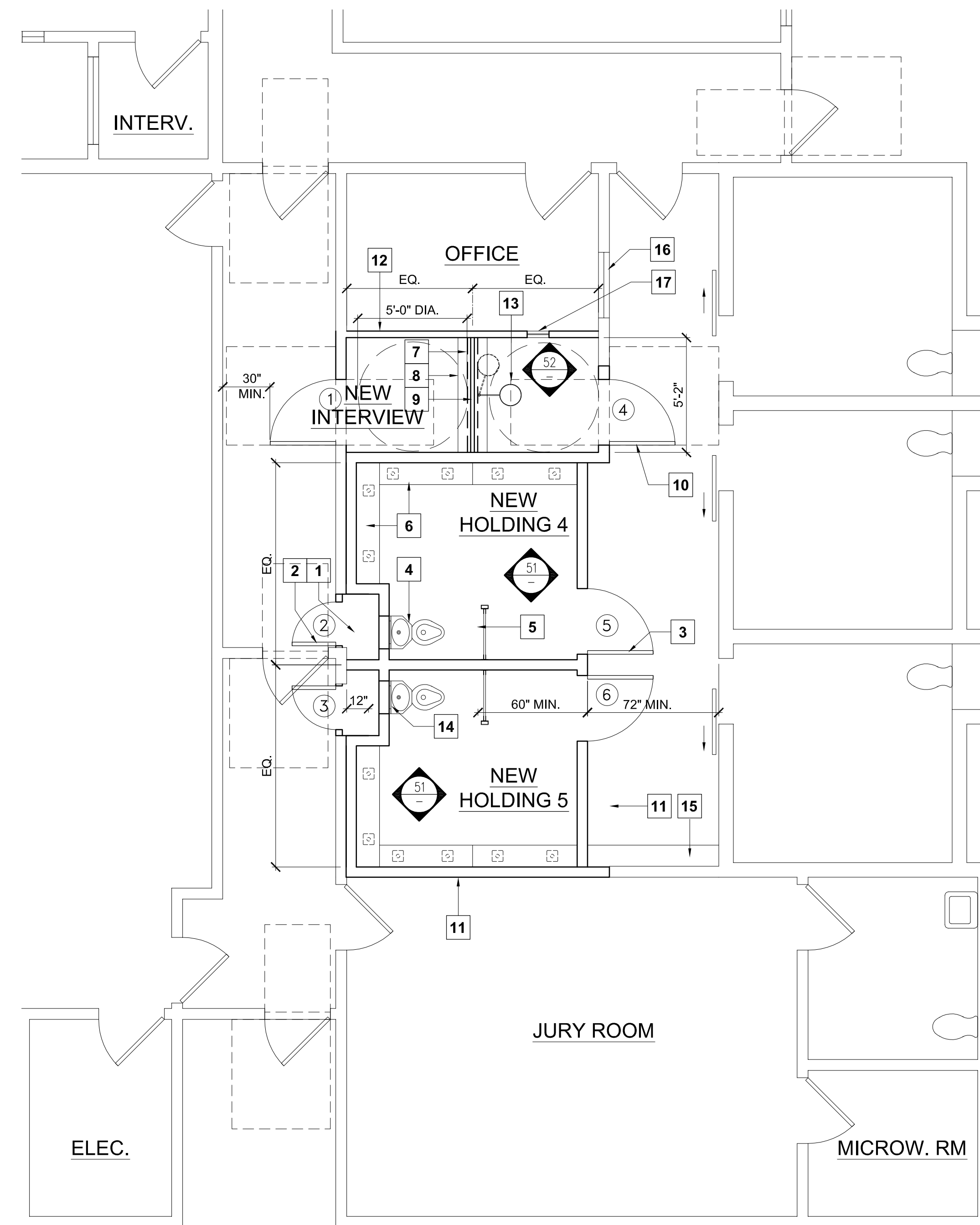
A.3



51 CELL 1, CELL 2 (SIM.)
SCALE: 1/4" = 1'-0"



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



PROJECT NORTH
REMODEL PLAN
SCALE: 1/4" = 1'-0"

FINISH NOTES

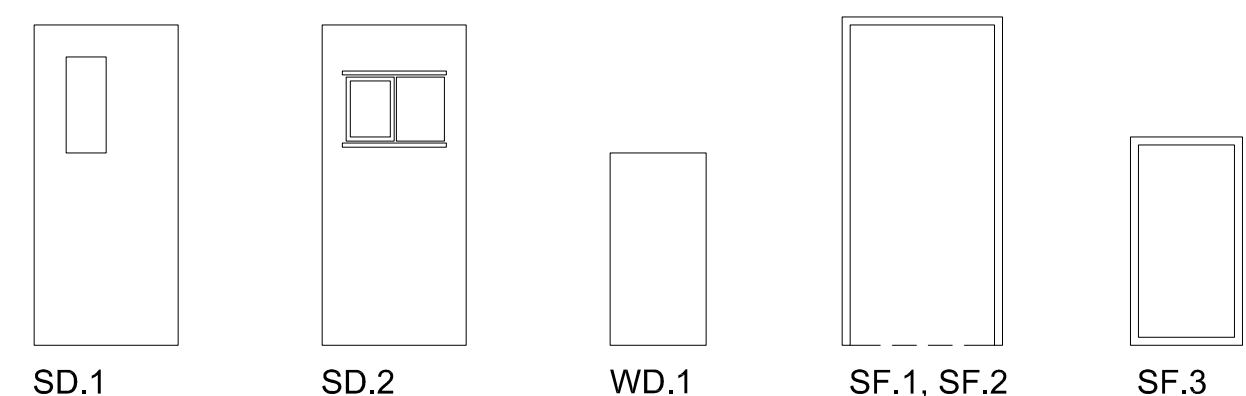
- NEW HOLDING CELLS**
FLOOR: Epoxy coating over concrete slab
WALL BASE: N/A
WALLS: Block filler and epoxy coating over concrete block
CEILING: Epoxy coating over thin-coat plaster over gypsum board
- NEW INTERVIEW ROOM**
FLOOR: Epoxy coating over concrete slab
WALL BASE: 4 inch resilient wall base
WALLS: Acrylic paint over filler/concrete block or gypsum board
CEILING: Suspended acoustic tile
- REMODELED SECURE HALLWAY**
FLOOR: Epoxy coating over concrete slab
WALL BASE: 4 inch resilient wall base
WALLS: Acrylic paint over filler/concrete block or gypsum board
CEILING: Extend existing painted gypsum board ceiling

HARDWARE SCHEDULE

- GROUP 1**
Hinges: 3, ball bearing standard duty (Hager BB1279)
Lockset: heavy duty communicating lock function, lever handle (Schlage D72PD)
Closer: inside surface mount (LCN 4110)
Stop: wall stop (Ives WS 401/402)
Seals: silicone bulb, head and jambs (Pemko S88)
- GROUP 2**
Hinges: 2, standard duty (Hager AB700)
Lock: keyed cylinder, compatible with Court standards (Schlage B600)
Seals: silicone bulb, all sides (Pemko S88)
- GROUP 3**
Hinges: 3, ball bearing standard duty (Hager BB1279)
Lockset: heavy duty communicating lock function, lever handle (Schlage D72PD)
Closer: inside surface mount (LCN 4110)
Door Bottom: aluminum shoe, vinyl bulb smoke seal (Pemko 217)
Threshold: accessible saddle, full width (Pemko 270)
Seals: silicone bulb, head and jambs (Pemko S88)
- GROUP 4**
Hinges: 3, ball bearing heavy duty (Hager BB1168)
Lock: keyed cylinder, compatible with Court standards (Schlage B600)
Pull: 1" diameter round x 8" long (Ives 8103-8)
Pull Plate: 4" x 16", custom cutouts for pull and cylinder (Ives 8300)
Seals: silicone bulb, head and jambs (Pemko S88)
Cabinet Pull (window cover): metal 4" wire pull (Hafele 117.50.610)
Electric Function: electric latch retraction (Von Duprin E with power supply)

DOOR SCHEDULE

NO.	TYPE	FRAME	WIDTH	HT.	THICK.	HDWRE.	REMARKS
1	SD.1	SF.1	3'-0"	6'-8"	1-3/4"	1	HALLWAY PASSAGE, GLASS-CLAD POLYCARBONATE
2	WD.1	SF.3	2'-0"	4'-0"	1-3/4"	2	CHASE ACCESS DOOR
3	WD.1	SF.3	2'-0"	4'-0"	1-3/4"	2	CHASE ACCESS DOOR
4	SD.1	SF.1	3'-0"	6'-8"	1-3/4"	3	SECURE PASSAGE, GLASS-CLAD POLYCARBONATE, 60 MIN. RATED
5	SD.2	SF.2	3'-0"	6'-8"	1-3/4"	4	HOLDING CELL ENTRY, GLASS-CLAD POLYCARBONATE, 60 MIN. RATED
6	SD.2	SF.2	3'-0"	6'-8"	1-3/4"	4	HOLDING CELL ENTRY, GLASS-CLAD POLYCARBONATE, 60 MIN. RATED



REMODEL PLAN & INT. ELEV. KEYNOTES

- PLUMBING CHASE
- 2040 SOLID CORE WOOD DOOR
- 3070 SOLID CORE STEEL DOOR
- "COMBY" TOILET / SINK / BUBBLER
- STAINLESS STEEL PRIVACY SCREEN
- STAINLESS STEEL 12" FLOOR MTD. BENCH
- CONC. BLOCK WALL BELOW
- STAINLESS STEEL SILL
- SAFETY GLASS PARTITION WITH SPEAK HOLE
- 3070 SOLID CORE WOOD DOOR
- NEW CONCRETE BLOCK WALL
- NEW WOOD FRAMED WALL
- STAINLESS STEEL WALL MOUNTED SWING STOOL
- 12-1/2"W X 16-1/2" H STAINLESS STL. MIRROR
- EXISTING CABINET TO BE REMOVED AND REINSTALLED
- EXISTING WINDOW FRAME TO BE RELOCATED AS NECESSARY

SHAFTER - WASCO SUPERIOR COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

CLIENT JOB # ARCHITECT JOB #
1003

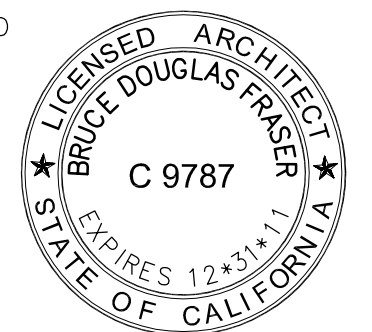


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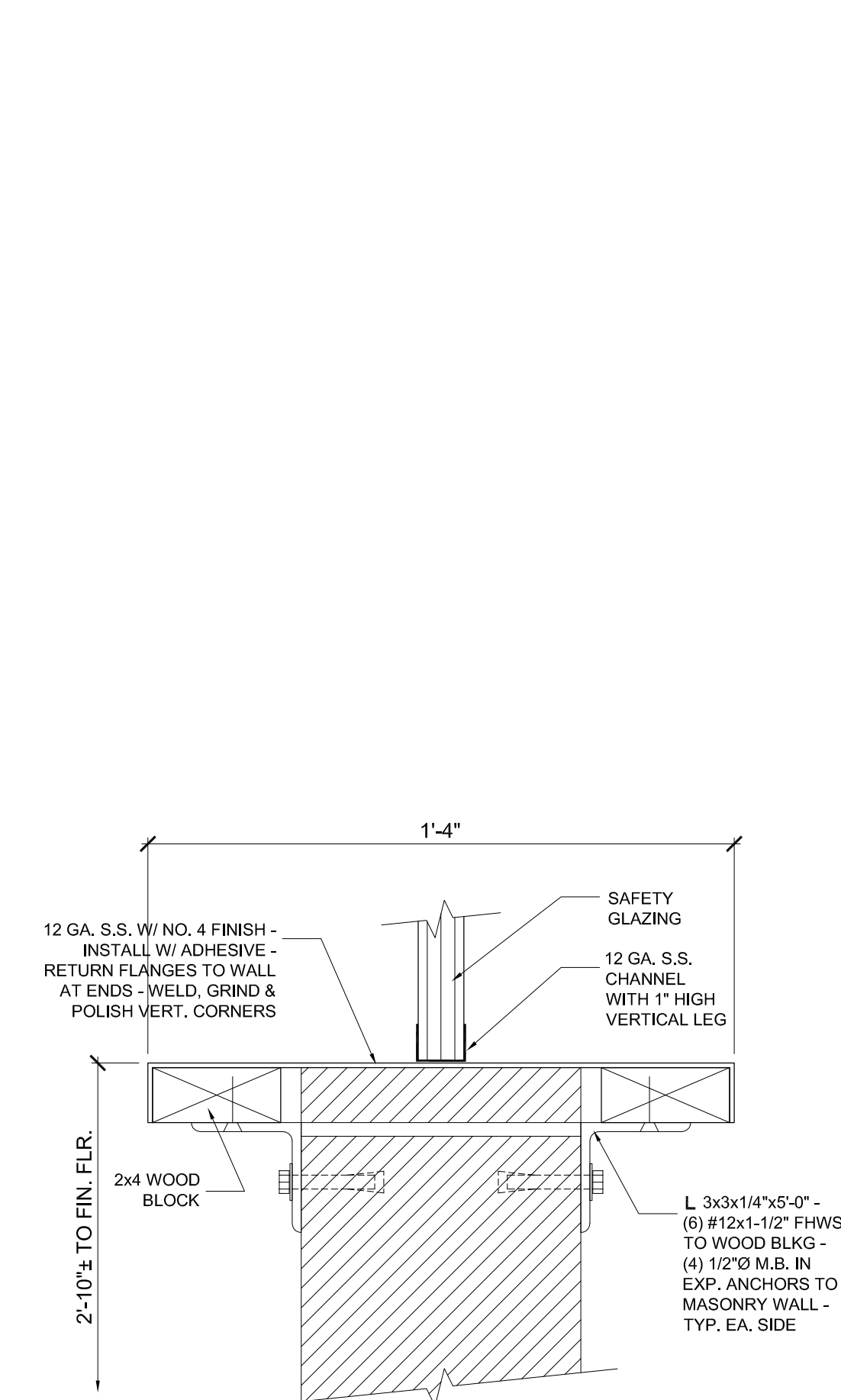
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SHEET TITLE

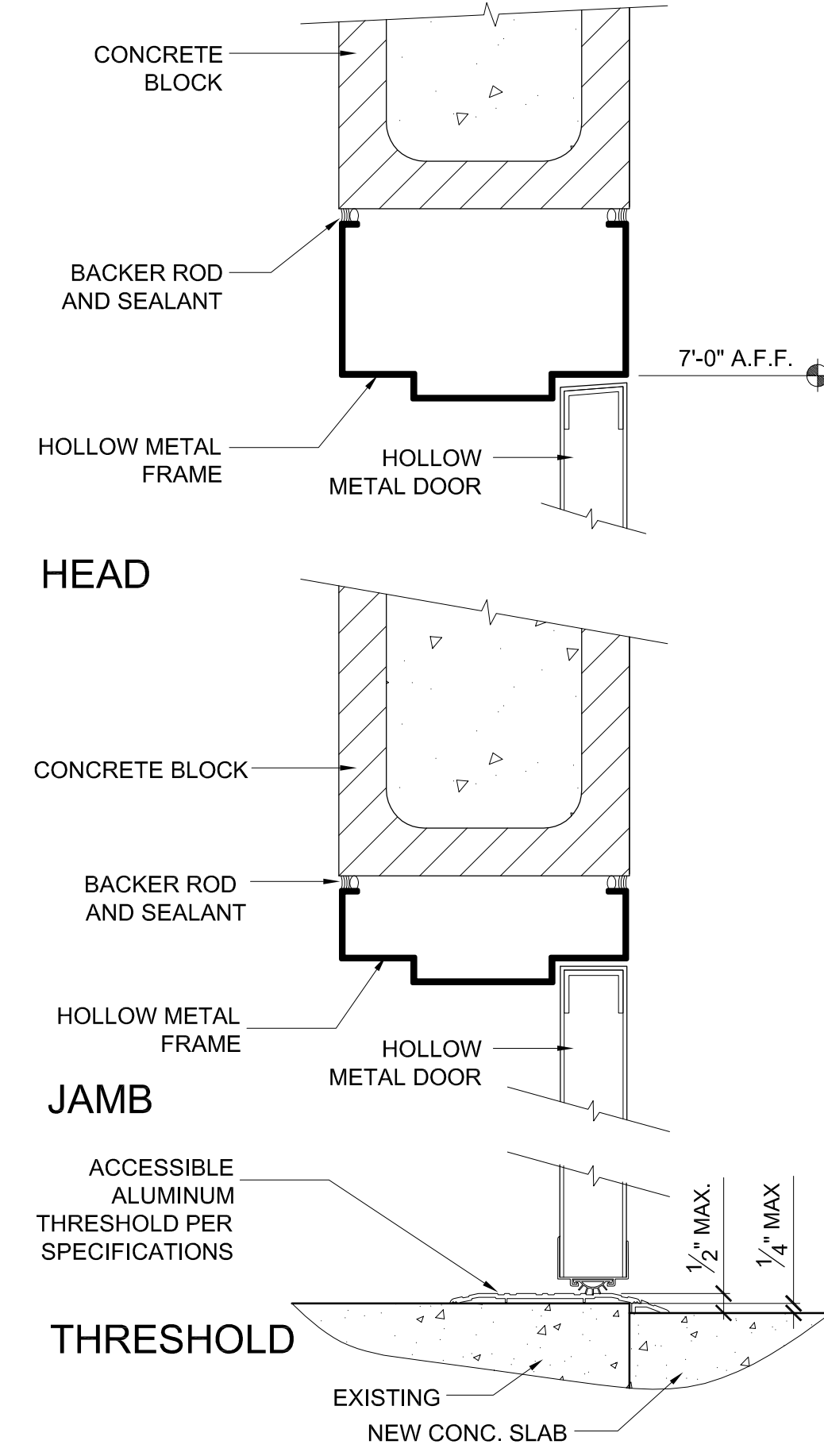
REFLECTED CEILING PLAN, DETAILS

SHEET #

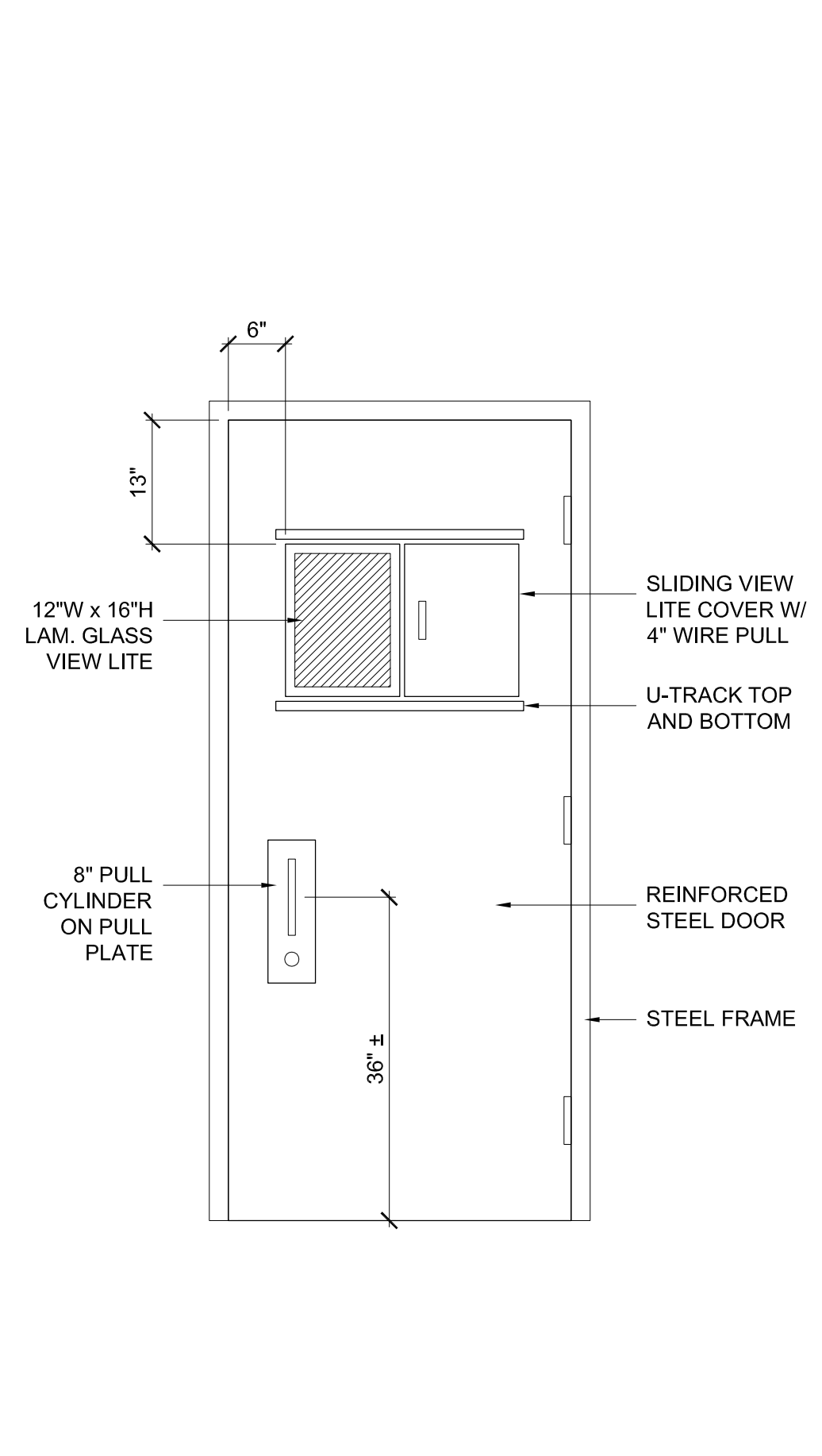
A.4



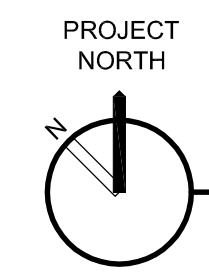
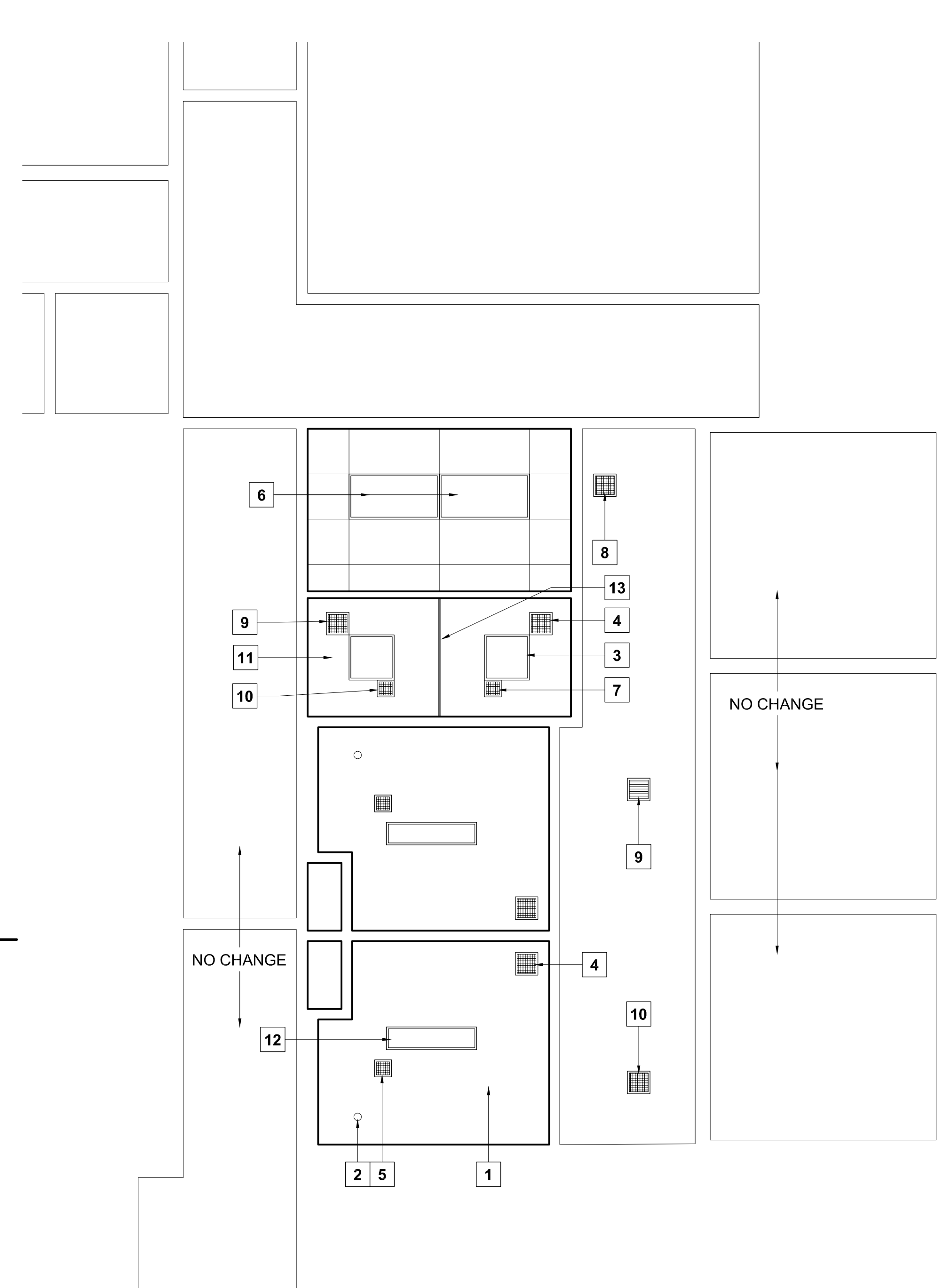
53 INTERVIEW WINDOW
3"=1'-0"



42 DOOR HEAD / JAMB @ CMU
3"=1'-0"



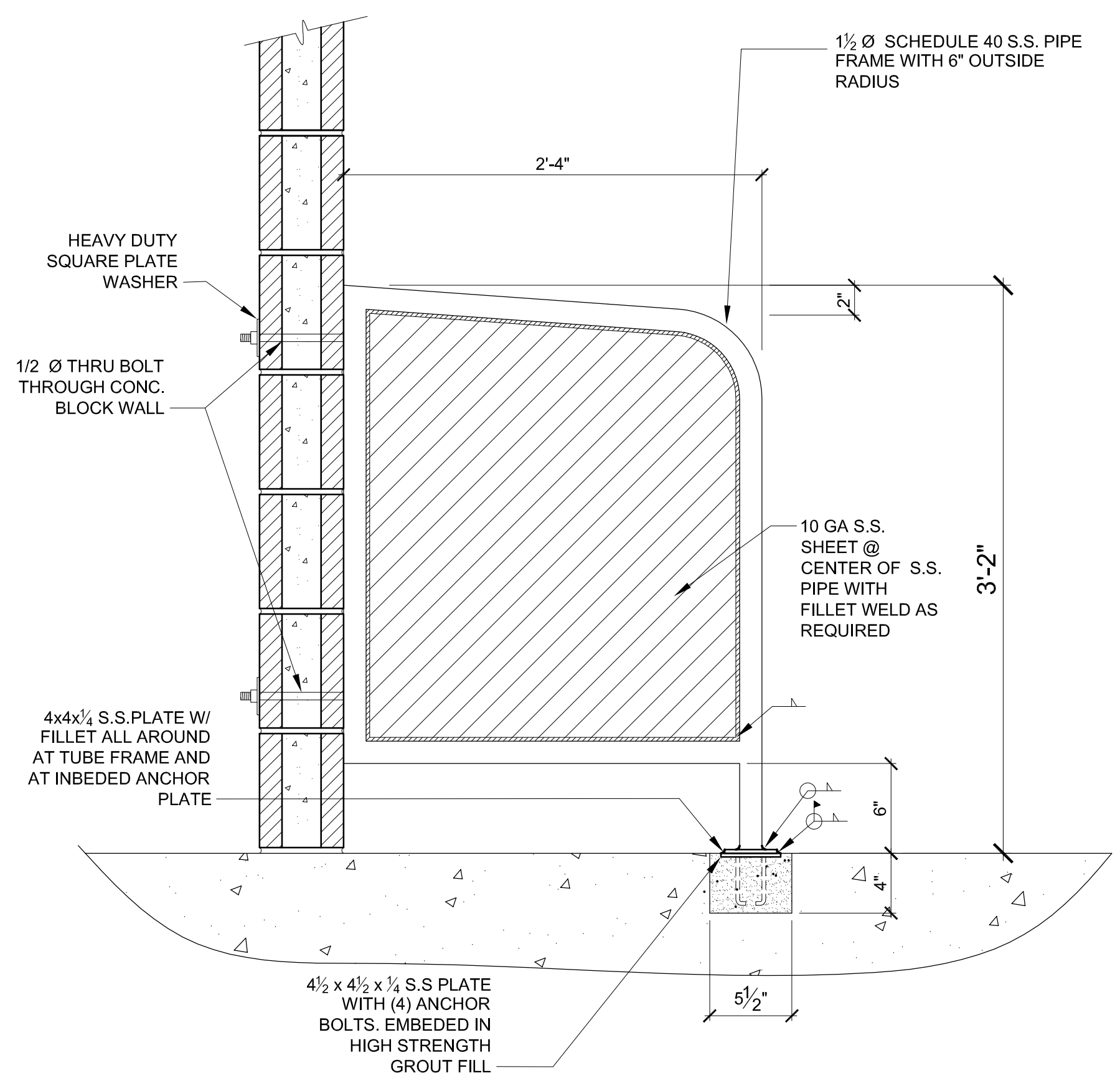
32 CELL DOOR ELEVATION
SCALE: 3/4" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES

1. PAINTED CONCRETE CEILING AT +8'-6"
2. CCTV SURFACE CEILING CAMERA, BY OTHERS.
3. RECESSED VANDAL RESISTANT LIGHT FIXTURE.
4. HARDENED SUPPLY AIR REGISTER.
5. HARDENED EXHAUST GRILLE.
6. EXISTING RECESSED LIGHT FIXTURE.
7. HARDENED RETURN AIR REGISTER.
8. EXISTING EXHAUST GRILLE.
9. SUPPLY AIR REGISTER.
10. RETURN AIR REGISTER.
11. PAINTED GYPSUM BOARD CEILING @ +8'-6"
12. SURFACE MOUNTED VANDAL RESISTANT LIGHT FIXTURE.
13. TOP OF GLAZING.

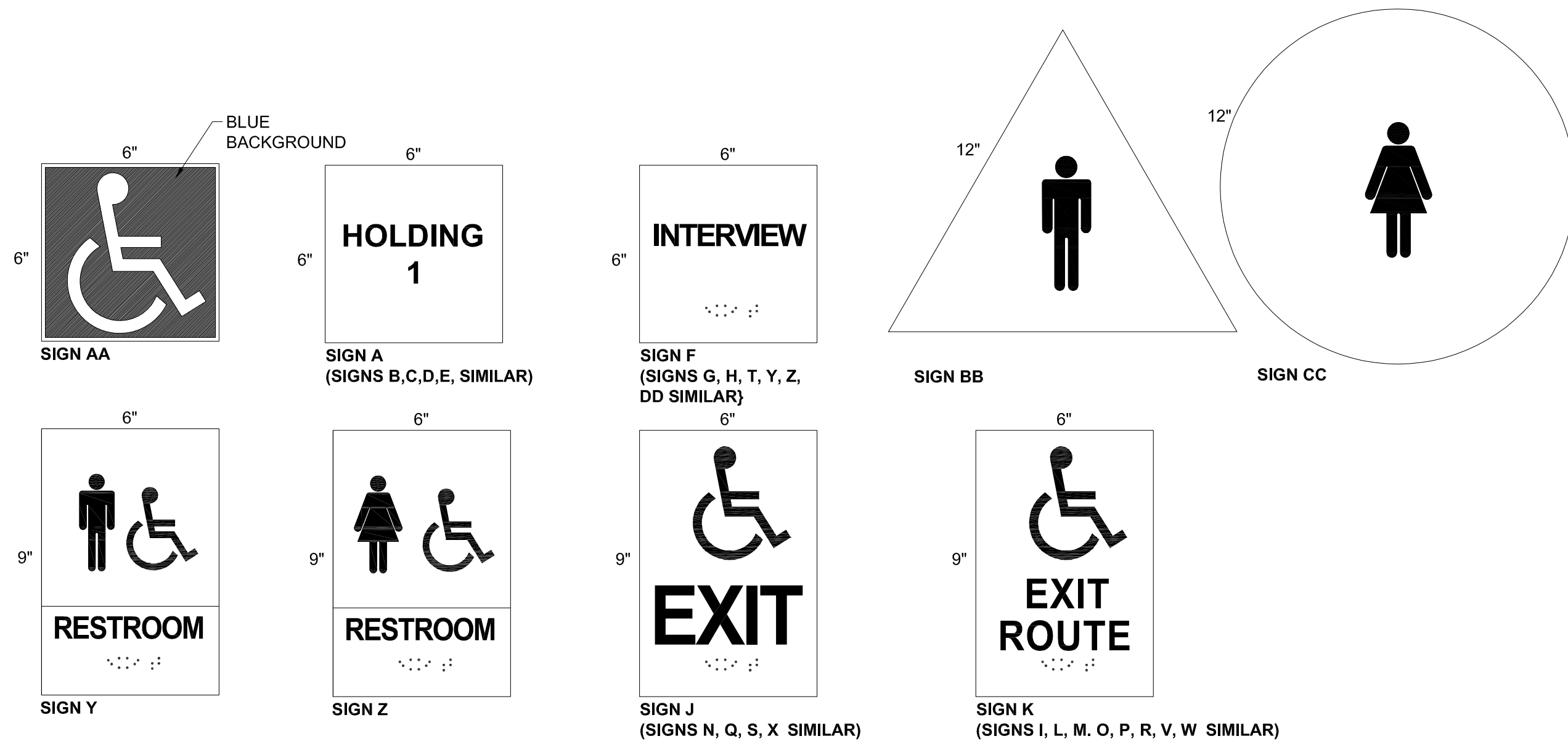


34 S.S. PRIVACY SCREEN
1-1/2"=1'-0"

SIGNAGE LEGEND

SIGN	LOCATION	COPY	NOTES (SIGN SIZE W x H)
A	wall right of (e) cell door	HOLDING 1	6"x 6" white on bronze *
B	wall left of (e) cell door	HOLDING 2	6"x 6" white on bronze *
C	wall left of (e) cell door	HOLDING 3	6"x 6" white on bronze *
D	wall right of cell door 5	HOLDING 4	6"x 6" white on bronze *
E	wall left of cell door 6	HOLDING 4	6"x 6" white on bronze *
F	wall right of door 4	INTERVIEW	6"x 9" white on bronze, Braille *
G	wall left of cell door 1	INTERVIEW	6"x 6" white on bronze, Braille *
H	wall left of cell door 6	SHERIFF	6"x 6" white on bronze, Braille *
I	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
J	wall right of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille *
K	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
L	wall left of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
M	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
N	wall left of (e) door	EXIT + ALARM WILL SOUND + (accessibility symbol)	6"x 9" white on bronze, Braille *
O	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
P	wall opposite (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
Q	wall left of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille *
R	wall left of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
S	wall right of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille *
T	surface of (e) door	AUTHORIZED ENTRY ONLY	6"x 6" white on bronze, Braille *
U	wall 6" from corner	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
V	wall 6" from corner	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
W	wall right of (e) door	EXIT ROUTE + (accessibility symbol)	6"x 9" white on bronze, Braille *
X	wall right of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille *
Y	wall left of (e) door	(male, accessibility symbols) MEN	6"x 9" white on blue, Braille *
Z	wall left of (e) door	(female, accessibility symbols) WOMEN	6"x 9" white on blue, Braille *
AA	back of glass to right of (e) entry door	(accessibility symbol)	6"x 6" white on blue standard decal
BB	surface of (e) door	(male symbol)	12" triangle, white on blue
CC	surface of (e) door	(female symbol)	12" circle, white on blue
DD	wall right of (e) door	JURY	6"x 6" white on bronze, Braille *
EE	mullion or glass right of (e) door	EXIT + (accessibility symbol)	6"x 9" white on bronze, Braille *

* SIGNS TO BE PROVIDED IN THE SCOPE OF THIS PROJECT



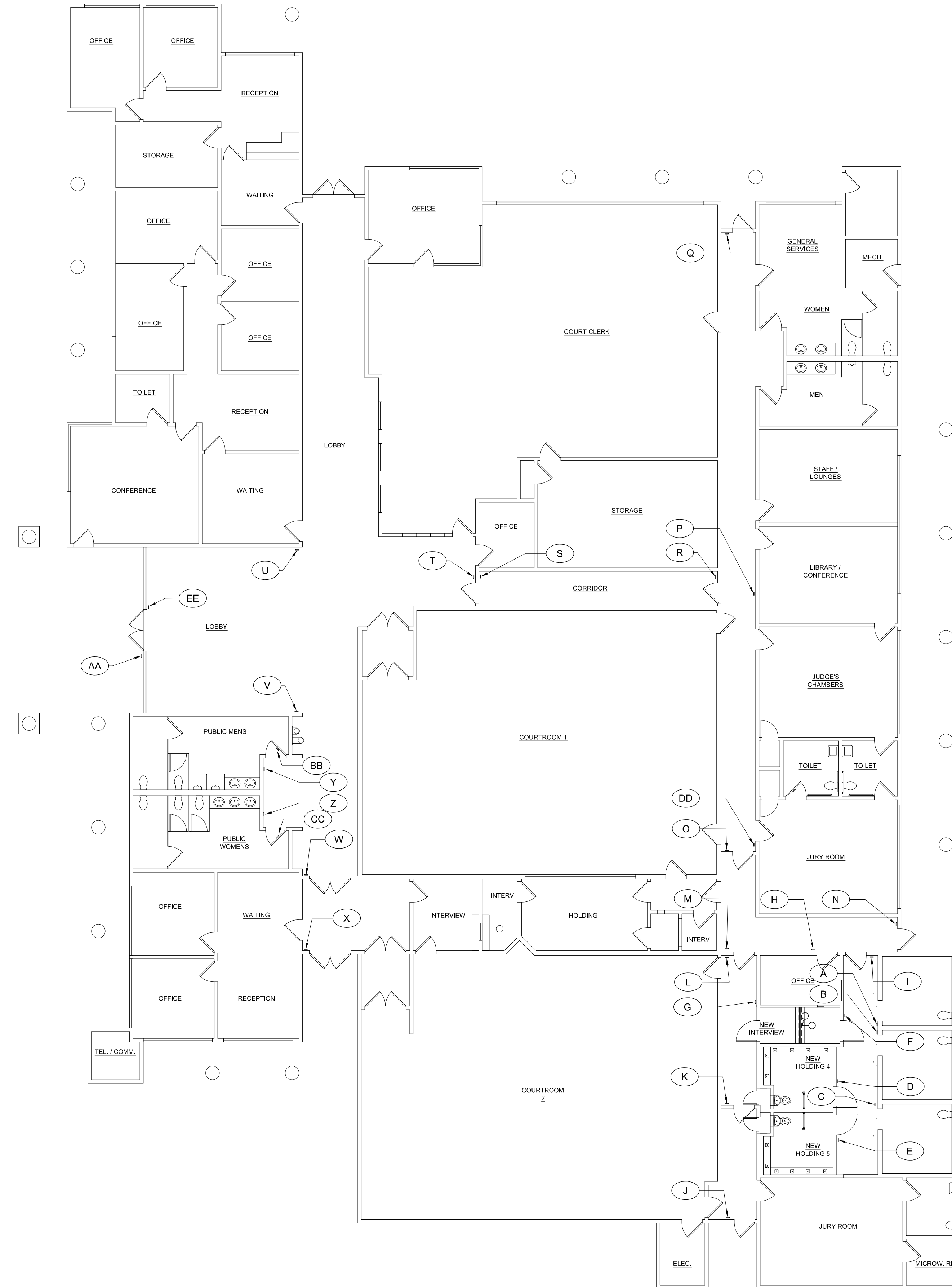
INTERIOR SIGNS

SIGNAGE NOTES

- All new signage shall comply with the provisions of CBC 1117B.5 for finish and contrast, proportions, character height, the use of raised characters/images, the application of Grade 2 Braille, and mounting location/height.
- The height to the center of signs shall be 60" above the finish floor unless otherwise noted.
- The international symbol of accessibility at the building entry may be a decal or vinyl image applied to the glass; all other signage for this work shall be wall-mounted plaques with raised characters/images and Braille dots as indicated in the Sign Schedule.
- Bring any conflicts between the proposed location of a sign and other signage, electrical devices, etc., to the attention of the Architect for resolution prior to signage installation.



40 ACCESSIBLE STALL SIGN
1 1/2" = 1'-0" D104006E



PROJECT NORTH

SIGNAGE PLAN
SCALE : 1" = 10'-0"

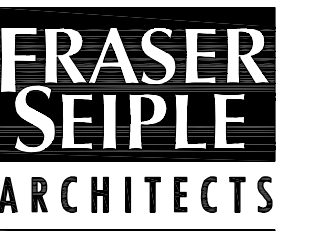
PROJECT

COUNTY OF KERN

SHAFTER - WASCO SUPERIOR COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

CLIENT JOB # ARCHITECT JOB #
1003

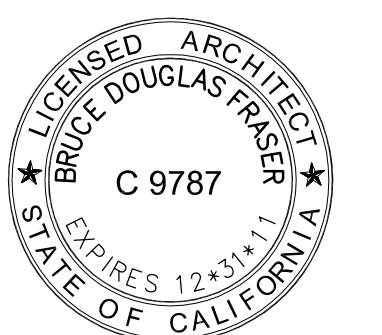


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SHEET TITLE

**SIGNAGE PLAN,
SIGNAGE LEGEND**

SHEET #

A.5

GENERAL NOTES

1. Verify all dimensions on the structural sheet with the architectural plans.
2. Report any discrepancies to the architect and engineer immediately and prior to resumption of work.
3. UNO = Unless Noted Otherwise.

STRUCTURAL STEEL

1. Rolled shapes and plates shall conform to ASTM A-36 unless noted. Tubes shall be ASTM A500 Grade B. Pipes shall be ASTM A53 Grade B. Identification procedures shall conform to ASTM A-6.
2. Welding shall conform to AWS D11 and shall use either the shielded or submerged arc methods. Electrodes used for welding to A-36 steel shall be E70XX. Electrodes for welding to A-572 (Grade 50) steel shall be E70XX low hydrogen type. Welders shall be certified.
3. All connections show on plans are typical. Steel fabricator to detail those connections not specifically shown and shall submit shop drawings for review by the engineer of record, and approval by the D.S.A.
4. Steel fabricator to verify all dimensions with the architectural and structural drawings.
5. All welding to be continuously inspected by AWS certified inspector.
6. All fabrication shall be done in a shop of approved fabricator.
7. All bolt holes shall be 1/16" larger than bolt unless noted.

MASONRY

1. All concrete block shall conform to ASTM C90, Grade N. Fill all cells with grout.
2. Grout shall develop 2000 psi in 28 days. Mortar shall be type "S".
3. All reinforcing steel shall be ASTM A-615 Grade 60 (#3 may be Grade 40) Splices in reinforcing steel shall be minimum 48 bar diameters unless noted.
4. All isolated bolts embedded in masonry shall be grouted solidly in place with not less than 1" of grout surrounding bolt. Titen HD anchors shall be separated from masonry head joints as required by ICC ESR-1056.
5. Vertical bolts set on top of the wall shall be set on center line of wall UNO.
6. All wood plates bolted on top of masonry walls shall be set on a mortar bed to provide uniform bearing.

REINFORCED CONCRETE

1. Use approved precast concrete Dobbies to support footing steel off the ground.
2. All concrete f'c = 3000 psi (Slab-on-grade can have f'c = 2500 psi).
3. Anchor bolts and dowels shall be securely held in place before concrete is poured.
4. All reinforcing steel shall be ASTM A-615 Grade 60 (#3 may be Grade 40) Splices in reinforcing steel shall lap as follows:

#3 thru #5 = 30*Diam., #6 & #7 = 40*Diam., #8 & #9 = 52*Diam., #10 and #11 = 66*Diam., Column bars = 30*diam. UNO.

Horizontal splices shall be staggered.

At splices and laps for beams, bars shall be separated 2.1/2" oc min. but in no case shall the separation be less than 1.1/2" clr. (Column bars may be in contact and wall bars be wired together at splices). Lap splice W.N.F. one cross bar +2".

5. The clear distance between parallel bars shall not be less than 1.1/2" UNO.
6. Reinforcing steel shall have a protected concrete cover as follows: UNO

Wall Steel Below Grade: On dirt side poured against dirt = 3"
On dirt side when formed = 2"

Wall Steel Above Grade: In all cases = 1.1/2"

Other items: Footing Pads = 3"
Slabs (L.N. Conc.) = 3/4"
Slabs (Hard Rock Conc.) = 1"
Joists (sides, tops & soffits) = 1"
Columns (to main steel) = 2"
Beam Girders (sides, top & soffit) = 2"

7. All slabs on earth shall have "quick-joint" installed to provide approximately 15 foot squares UNO. Where concrete pours are stopped, the joint shall be formed as a construction joint.

FOUNDATION NOTES:

1. Soil Design Bearing Value = 1500 psf, Footings to extend 18" Min. below adjacent grade.
2. All footings are to bear in firm native soil or approved engineered fill.

DESIGN LOADS

Roof Live Load: 10 psf (Ceiling)
Floor Live Load: N/A
Roof Snow Load: N/A
Flood Design Data: N/A

Basic Wind Speed: 85 mph

Exposure: B
Importance Factor: 1.15

Seismic Design Category: D

SITE CLASS: D
Importance Factor: 1.25

SI = 0.379

SS = 0.998

SDS = 0.73

SDI = 0.42

Bearing Wall System: 7

V = Cs * W

Cs = .18

R = 5

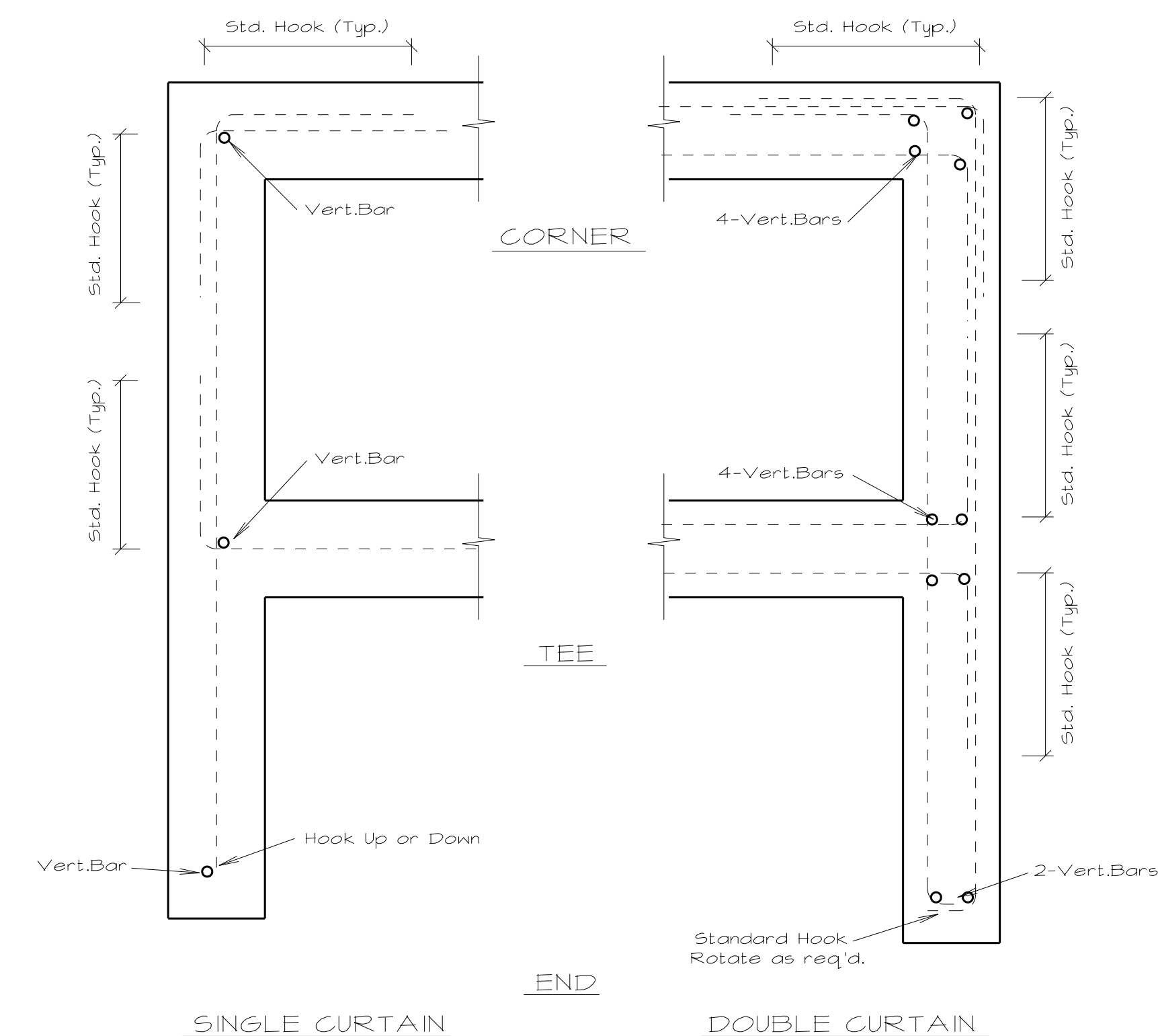
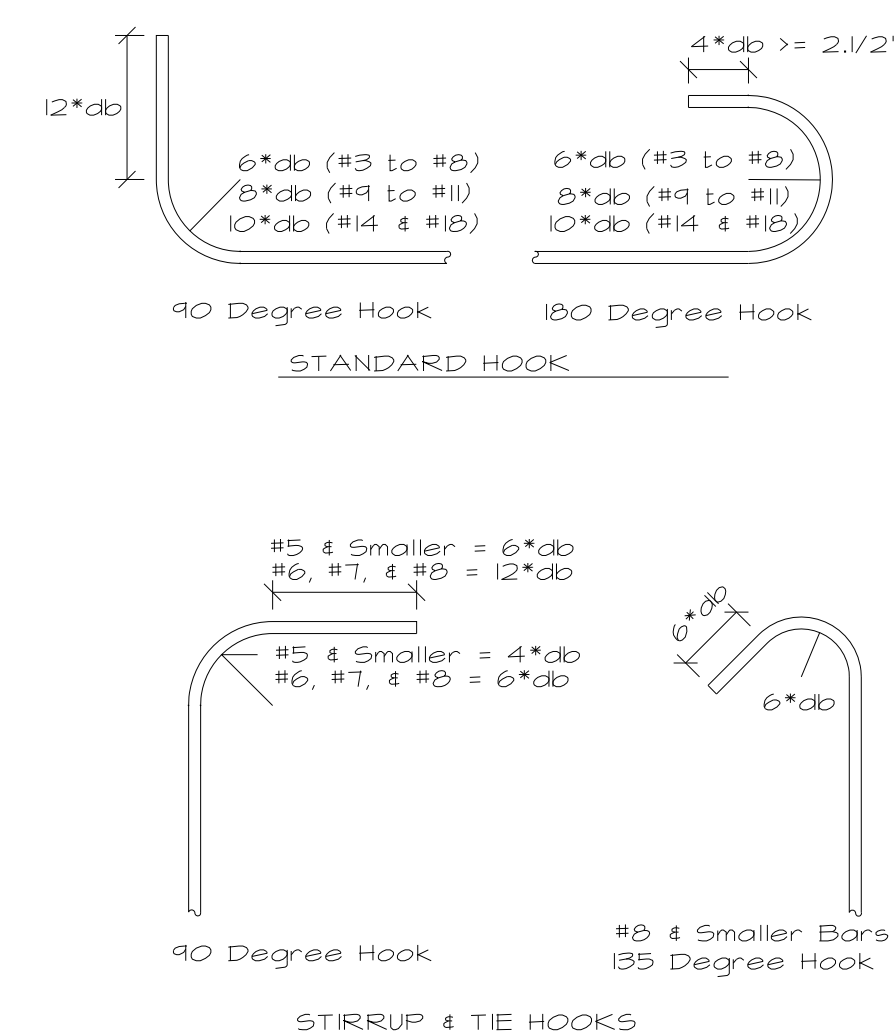
Equivalent Lateral Force Analysis

SPECIAL INSPECTIONS REQUIRED

- A. Footing Concrete Design f'c = 2500 psi, No Special Inspection Required.
- B. Structural Masonry (Level 1) per CBC 1704.5.2 and CBC Table 1704.5.1
 1. Type S Mortar, 2000 psi Solid Grout, Rebar Fy = 60ksi
 2. Placement of Anchor Bolts for Seismic Ties @ Ceiling (Detail T1)
 3. Placement of rebar, especially in wall ends and corners.
- C. Post-installed concrete anchors per CBC 1704.13 and ICC Evaluation Report ESR-2508.
- D. Ceiling Concrete f'c = 3000 psi Special Inspection Required per CBC 1704.4

WOOD FRAMING NOTES:

1. All framing lumber shall be grade marked Douglas Fir-Larch.
2. Sill plates shall be pressure treated Douglas Fir UNO.
3. Bearing Sill Plates bolted to concrete w/ 5/8" x 10" Anchor Bolts @ 48" oc UNO.
4. Studs shall be spaced 16" oc UNO & the size shown on the plans & Sections.
5. Bolts fastened to wood shall be fitted with standard cut washers.
6. Holes for bolts shall be bored 1/32" larger than nominal bolt diameter.
7. Joist hanger and steel straps and connectors are by Simpson Strong-Tie company. Substitutions by other manufacturer's should be approved prior to use and any documentation required for the substitutions shall be submitted for review.
8. Refer to CBC Table 2304.9.1 for minimum nailing schedule.



HORIZONTAL BARS IN WALLS & FOOTINGS

Concrete Lap Splices		Masonry Lap Splices	
#3 Ld=12"	#8 Ld=32"	#3 Ld=18"	#8 Ld=48"
#4 Ld=16"	#9 Ld=36"	#4 Ld=24"	#9 Ld=54"
#5 Ld=20"		#5 Ld=30"	
#6 Ld=24"		#6 Ld=36"	
#7 Ld=28"		#7 Ld=42"	

COUNTY OF KERN

SHAFTER-
WASCO
SUPERIOR
COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

STEPHEN MACIE, P.E.

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Rev. 10/26/10
Rev. 7/20/11

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Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and existing conditions on the job and shall report any discrepancies to the engineer or the architect for resolution prior to commencing work.

SHEET TITLE:

SHEET #:

SI

SHAFTER-WASCO SUPERIOR COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

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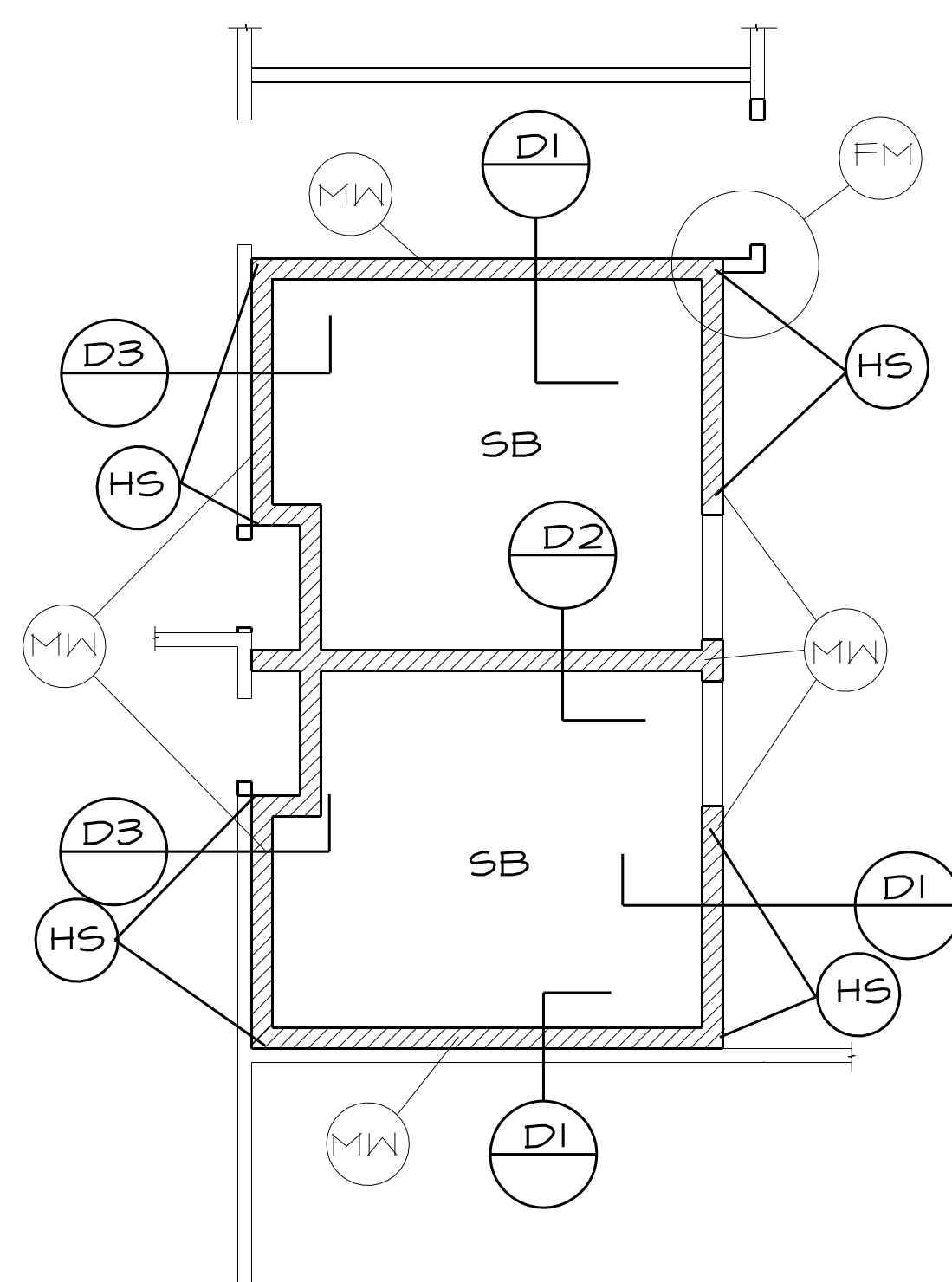
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SHEET TITLE:

SHEET #:

S2



CEILING PLAN

1/4" = 1'-0"

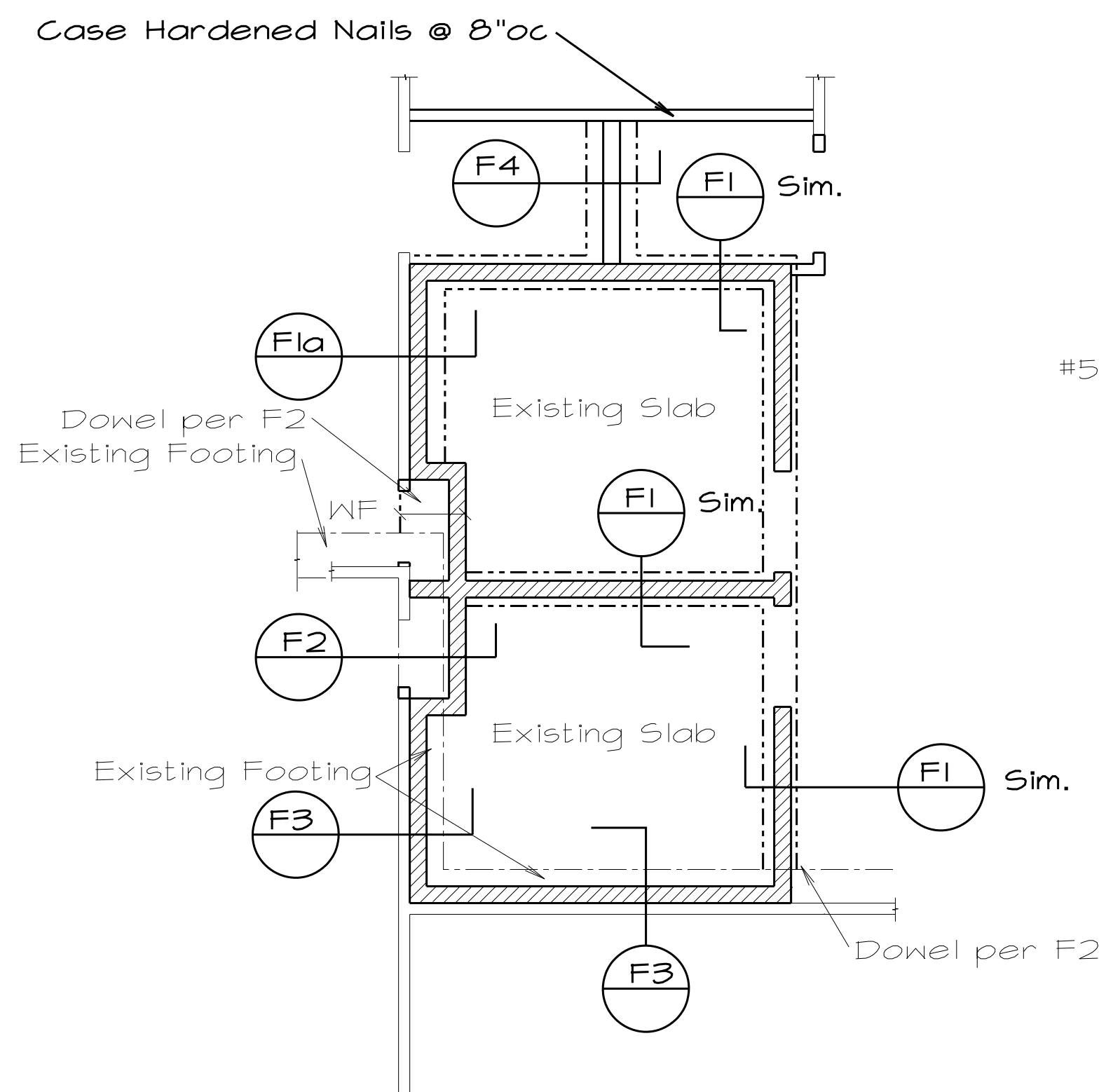
SB = 6" Concrete Slab Ceiling w/#4's @ 10"oc Each Dir.
f'c = 3000 psi @ 28 days
Rebar Fy = 60 ksi

MW = 6" x 8" x 16" CMU, Solid Grout, f'm = 1500 psi
w/ #4's @ 32"oc Vert. # Horiz.
#4 Vertical @ Each Corner and End of Wall
All Vertical Rebar to Extend into New Footing
or epoxy min. 8" into Existing Footing
w/Simpson SET-XP System
#4 rebar around all Openings
(extend 24" past opening each direction)

HS = #4's @ 16"oc Horizontal at These Walls

FM = Wood Wall to Masonry Wall Connection, Epoxy
1/2" threaded rod 4" into CMU w/Simpson SET-XP system, 12" from T&B of CMU wall and @ mid-point.

NOTE: Use standard washers @ all bolted wood connections.
See original plans for other details



FOUNDATION PLAN

1/4" = 1'-0"

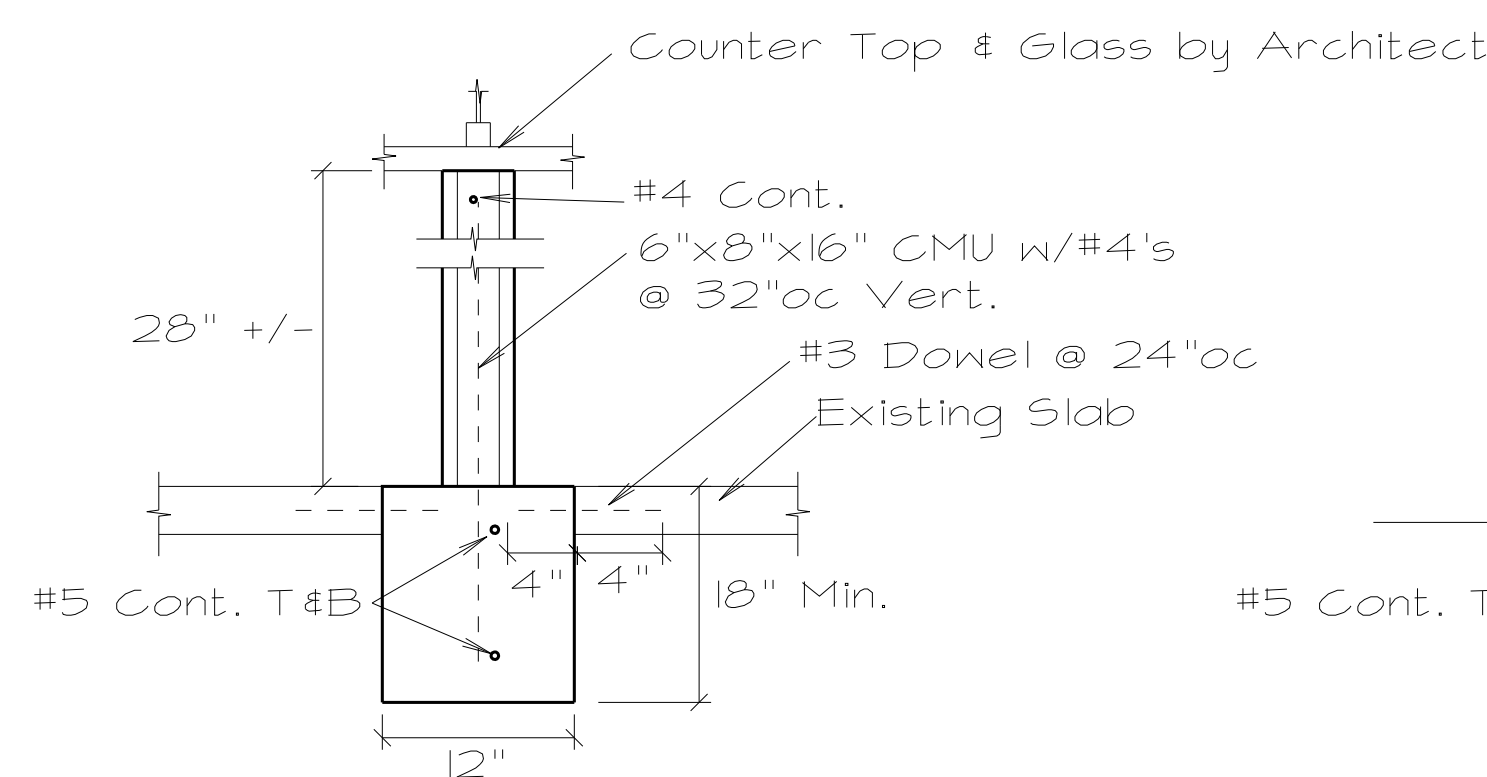
Concrete f'c = 3000 psi @ 28 days
(Special Inspection not required, footing designed for 2500 psi)

Rebar Fy = 60 ksi (#3 Fy = 40 ksi)
Dowel Existing Slab to New Footing w/#3's @ 24"oc w/SET-XP system.
(Extend 4" min. into slab)

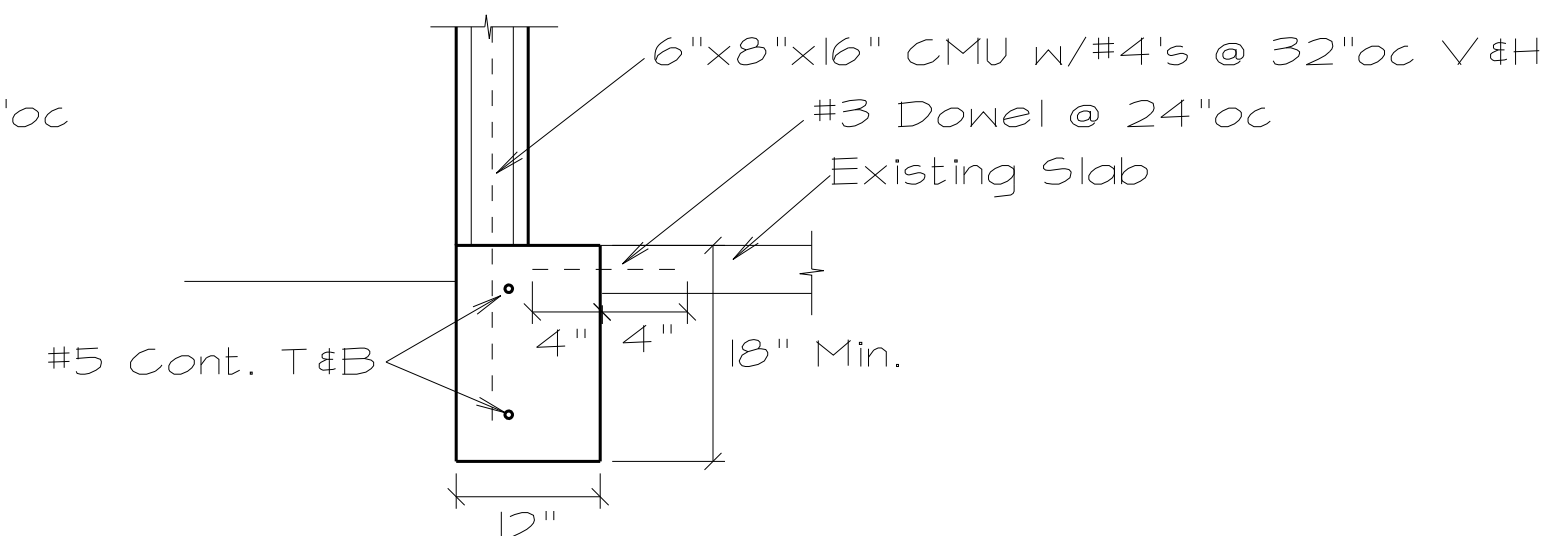
Dowel New Footing Rebar into Existing Footing min. 4" w/SET-XP system.

WF = Widen Footing to extend Edge of Wall to Edge of Offset Wall

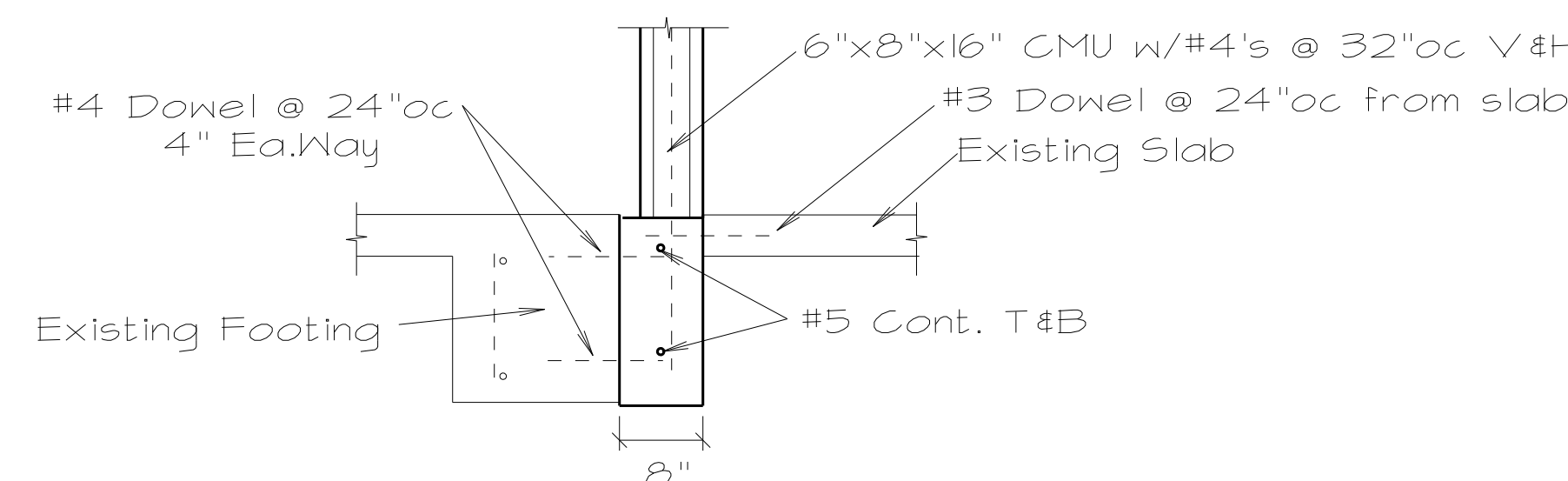
New Footing should extend 12" min. into Natural Grade
Rebar in concrete poured against soil requires 3" cover.



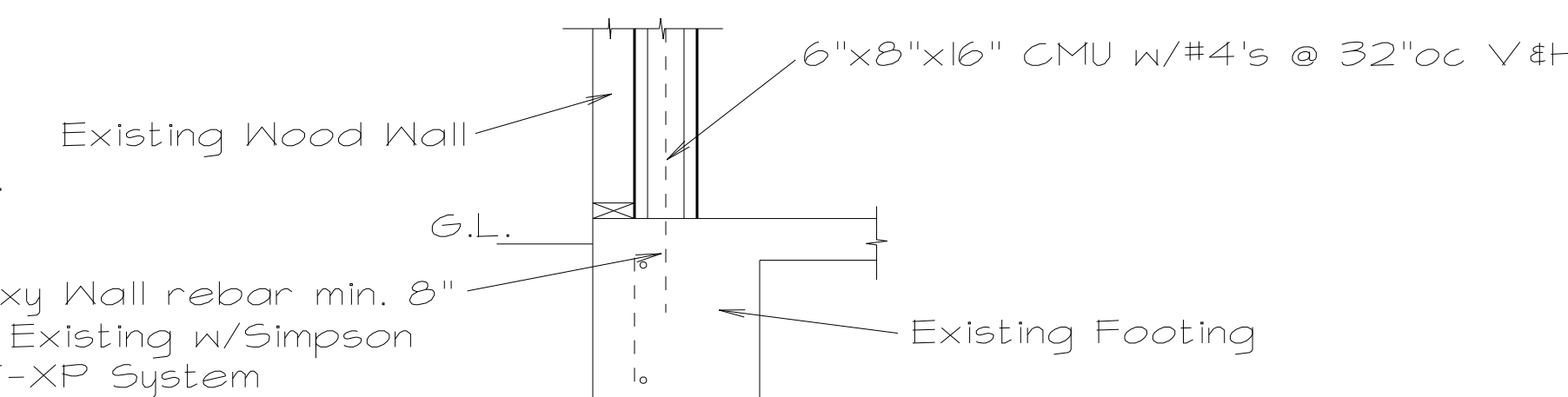
F4 PARTIAL WALL
3/4" = 1'-0"



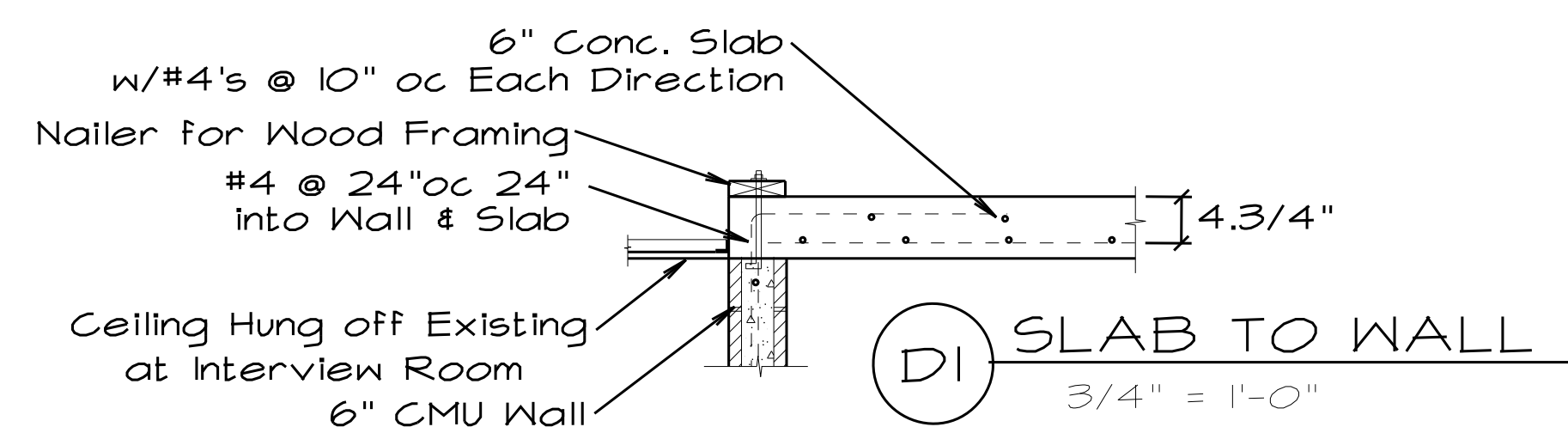
F1 NEW FOOTING
3/4" = 1'-0"



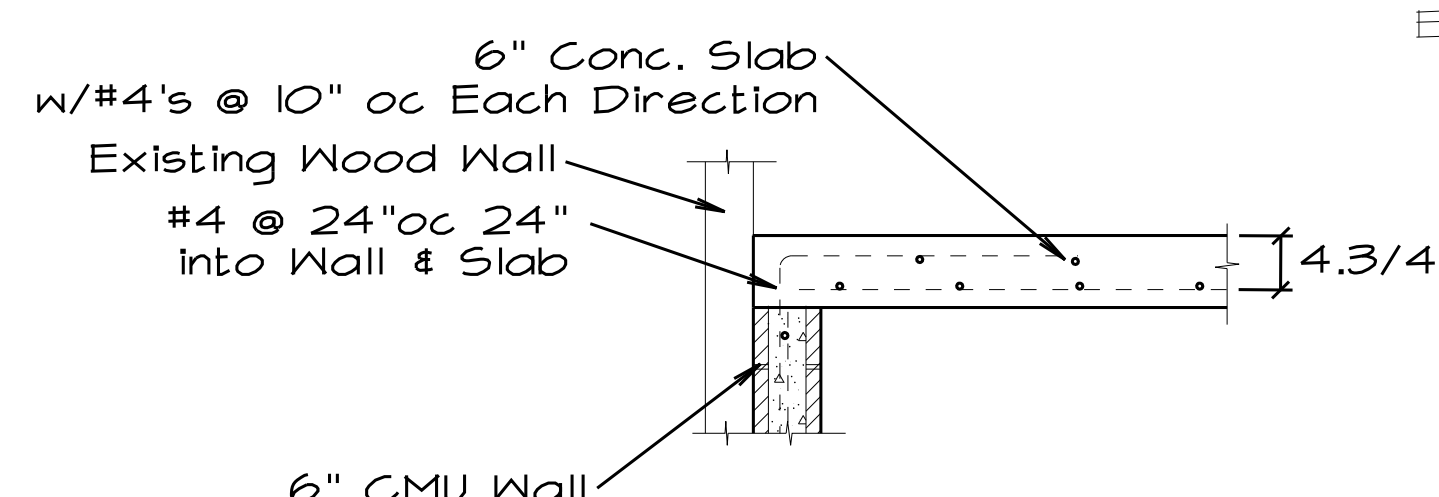
F2 WIDENED EXISTING FOOTING
3/4" = 1'-0"



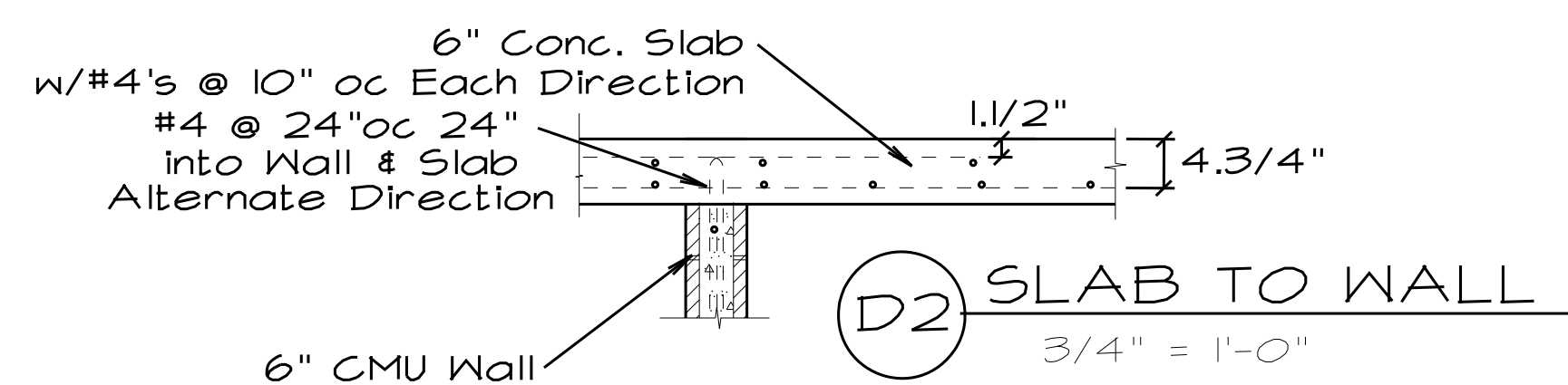
F3 EXISTING FOOTING
3/4" = 1'-0"



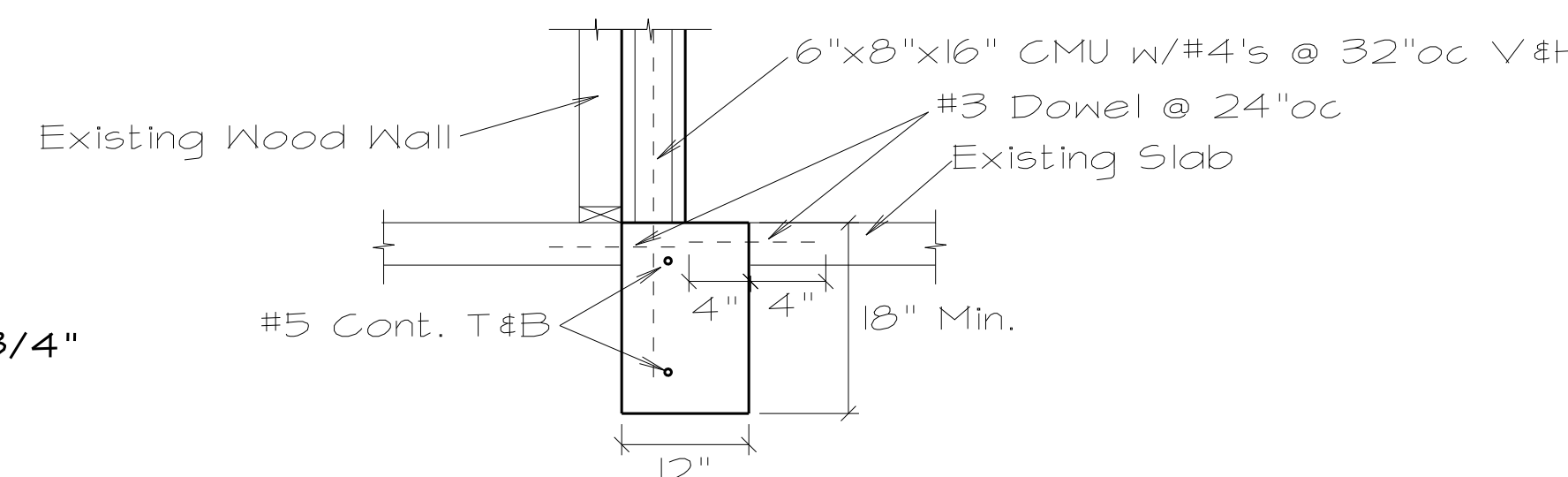
D1 SLAB TO WALL
3/4" = 1'-0"



D3 SLAB TO WALL @ EXISTING
3/4" = 1'-0"



D2 SLAB TO WALL
3/4" = 1'-0"



F1a NEW FOOTING @ EXISTING WALL
3/4" = 1'-0"

GENERAL NOTES

MECHANICAL/PLUMBING WORK CONSISTS OF ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF THE SYSTEMS AS INDICATED ON THESE DRAWINGS.

SUBMITTAL REQUIREMENTS:

WITHIN 15 DAYS OF CONTRACT AWARD, THE MECHANICAL/PLUMBING CONTRACTOR SHALL SUBMIT COMPLETE APPLICABLE PRODUCT, EQUIPMENT, AND MATERIAL INFORMATION. NO PRODUCT, EQUIPMENT, OR MATERIAL SHALL BE ORDERED OR INSTALLED UNTIL SUBMITTALS ARE APPROVED BY THE MECHANICAL ENGINEER. ANY ITEM NOT INCLUDED IN THE SUBMITTAL SHALL BE PROVIDED WITHOUT SUBSTITUTION. SUBMITTAL INFORMATION SHALL INCLUDE: MANUFACTURER'S NAME AND CATALOGUE NUMBERS, DIMENSIONS, CAPACITIES, PERFORMANCE CURVES, AND ALL OTHER CHARACTERISTICS AND ACCESSORIES AS LISTED IN THE CONTRACT DOCUMENTS. THE INFORMATION SHALL BE CURRENT MANUFACTURER'S SUBMITTALS AND BROCHURES.

SUBMITTALS FOR ANY EQUIPMENT SUBSTITUTED AS EQUIVALENT TO THE SCHEDULED EQUIPMENT SHALL INCLUDE TABULATED COMPARISON DATA SO AS TO CLEARLY DEMONSTRATE EQUIVALENCY. THIS DATA SHALL SPECIFICALLY INCLUDE COMPARISONS BETWEEN SCHEDULED AND PROPOSED EQUIPMENT IN THE FOLLOWING AREAS:

- WEIGHT (INCLUDING CURBS AND ACCESSORIES) DIMENSIONS
- ELECTRICAL AND GAS REQUIREMENTS (VOLTAGE, PHASE, FULL LOAD AMPS & BTU) SOUND LEVELS (WHERE APPLICABLE)
- PERFORMANCE (EFFICIENCIES, HEATING, COOLING, AIR FLOW, STATIC PRESS.)

THREE COPIES OF CLOSE OUT SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF SYSTEM START-UP AND BALANCING. CLOSE-OUT SUBMITTALS SHALL INCLUDE THE FOLLOWING TEST REPORTS: HVAC EQUIPMENT OPERATING DATA AND AIR BALANCE, VALVES, THERMOMETERS, PRESSURE GAUGES, WATER METERS, WATER FEEDERS, AIR VENTS, TRAP PRIMERS, VACUUM BREAKERS, AND ALL OTHER APPLICABLE MECHANICAL/PLUMBING SYSTEM COMPONENTS.

ALL WORK INDICATED ON THESE PLANS SHALL BE DONE IN COMPLIANCE WITH CURRENT STATE AND LOCAL CODES AND ALL APPLICABLE CALIFORNIA TITLE-24 REQUIREMENTS. IN THE EVENT OF CONFLICT BETWEEN CODES, THE MORE RESTRICTIVE REQUIREMENTS SHALL BE EXERCISED.

NOTHING IN THESE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO CONFLICT WITH ANY CITY OR STATE LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITER'S REQUIREMENT APPLICABLE TO THIS CLASS OF WORK.

CONSTRUCTION AND/OR ENGINEERING COSTS RESULTING FROM PRODUCT SUBSTITUTIONS SHALL BE PAID BY THE MECHANICAL/PLUMBING CONTRACTOR. APPROVAL OF SUBSTITUTED PRODUCTS DOES NOT NEGATE THIS OBLIGATION.

THE MECHANICAL/PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AIR TERMINALS WITH THE REFLECTED CEILING PLAN, AND VERIFY CORRECT LOCATION OF EQUIPMENT, PIPING, AND PLUMBING SERVICES BEFORE PROCEEDING WITH INSTALLATION.

ALL LOCATIONS OF DUCTWORK, EQUIPMENT AND PIPING ARE SHOWN DIAGRAMMATICALLY. THE MECHANICAL/PLUMBING CONTRACTOR SHALL ADHERE TO LOCATIONS INDICATED ON THE DRAWINGS AS CLOSELY AS POSSIBLE, VARYING PIPE RUNS AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE PROJECT.

THE MECHANICAL/PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ALL PLUMBING-RELATED EQUIPMENT, ACCESSORIES, AND CONTROLS.

DUCT DIMENSIONS SHOWN ARE INTERNAL.

ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED WITH AT LEAST THE MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCE ALLOWANCE FOR SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. FOR MAINTENANCE AND PROPER OPERATION.

ALL MECHANICAL/PLUMBING DUCTING, PIPING, AND EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES.

THE WORK UNDER THIS SECTION SHALL BE IN COOPERATION WITH THE WORK OF OTHER TRADES TO PREVENT CONFLICT OR INTERFERENCE AND TO AID RAPID COMPLETION OF THE OVERALL PROJECT.

THE MECHANICAL/PLUMBING CONTRACTOR SHALL GUARANTEE THAT THE SYSTEMS INSTALLED ARE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND WILL WARRANT ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. THE MECHANICAL/PLUMBING CONTRACTOR SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THE MECHANICAL/PLUMBING CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS. IN THE EVENT OF FAILURE TO COMPLY WITH THE ABOVE-MENTIONED CONDITIONS WITHIN TEN (10) DAYS AFTER BEING NOTIFIED IN WRITING, THE MECHANICAL/PLUMBING CONTRACTOR SHALL COLLECTIVELY OR SEPARATELY AUTHORIZE THE OWNER TO PROCEED TO HAVE SAID DEFECTS REPAIRED AND MADE GOOD AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL HONOR AND PAY THE SAID COSTS AND CHARGES ON DEMAND.

BY JVA MECHANICAL ENGINEERING ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVED THESE DOCUMENTS AS ORIGINAL AND UNPUBLISHED WORK PRODUCT OF JVA MECHANICAL ENGINEERING AND THIS WORK SHALL NOT BE COPIED, DISCLOSED, OR USED IN CONNECTION WITH ANY WORK PROJECT OTHER THAN THE SPECIFIC PRODUCT FOR WHICH IT HAS BEEN PREPARED OR ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF JVA MECHANICAL ENGINEERING. VISUAL CONTACT WITH THIS DOCUMENT SHALL CONSTITUTE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS AND CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB. UPON DISCOVERY OF ANY VARIATION, DISCREPANCY, OR OMISSIONS, PLEASE NOTIFY JVA MECHANICAL ENGINEERING AND PRIOR TO PROCEEDING WITH RELATED WORK OBTAIN WRITTEN RESOLUTION FROM JVA MECHANICAL ENGINEERING.

THE MECHANICAL/PLUMBING CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB UPON DISCOVERY OF ANY VARIATION, DISCREPANCY, OR OMISSIONS, NOTIFY JVA MECHANICAL ENGINEERING AND PRIOR TO PROCEEDING WITH RELATED WORK, OBTAIN WRITTEN RESOLUTION FROM JVA MECHANICAL ENGINEERING.

MECHANICAL/PLUMBING: THE WORK UNDER THIS SECTION INCLUDES EVERYTHING NECESSARY FOR AND INCIDENTAL TO EXECUTING AND COMPLETING THE MECHANICAL/PLUMBING WORK, EXCEPT AS HEREAFTER SPECIFICALLY EXCLUDED. WORK INCLUDED SHALL BE AS INDICATED ON THE DRAWINGS COMPLETELY INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- MECHANICAL EQUIPMENT
- AIR DISTRIBUTION
- CONTROLS
- START UP AND BALANCE
- SANITARY SOIL, WASTE, AND VENT SYSTEMS
- GAS PIPING
- CONDENSATE PIPING
- DOMESTIC WATER SYSTEMS
- PLUMBING FIXTURES AND EQUIPMENT
- REQUIRED SUPPORTS AND BLOCKING

RELATED WORK: THE FOLLOWING WORK SHALL NOT BE FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS BUT WILL BE INCLUDED IN OTHER SPECIFICATIONS SECTIONS:

- CUTTING, PATCHING, AND FURRING
- CONDUIT AND LINE VOLTAGE ELECTRICAL
- FINAL PAINTING
- ROOFING
- CONCRETE PLACEMENT

RECTANGULAR DUCTWORK:

- ALL RECTANGULAR DUCTWORK, FITTINGS, AND ACCESSORIES SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE TO THE SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" HANDBOOK, AND SHALL BE PRIME GRADE GALVANIZED STEEL SHEETS OF LOCK FORM QUALITY.

INTERIOR DUCTWORK SEALING:

- PROVIDE COMPLETE SEALING OF ALL DUCT CONNECTIONS WITH 'UNI-MASTIC 181' FIBER REINFORCED DUCT SEALER BY MCGILL AIRSEAL PRODUCTS.

DUCT INSULATION:

- EXTERNAL DUCT INSULATION SHALL BE APPLIED TO ALL HEATING AND/OR COOLING DUCTS NOT INTERNALLY INSULATED AND NOT WITHIN CONDITIONED SPACES. MANVILLE MICROROUTE FSK 1-1/2" R-SERIES, ALUMINUM FOL REINFORCED WITH FIBERGLASS, SOWN LAMINATED TO U.L. RATED KRAFT, WITH R=4.8, SHALL BE USED OR APPROVED EQUAL. CIRCUMFERENTIAL AND LONGITUDINAL SEAMS SHALL BE LAPPED MINIMUM OF 2" AND SECURED WITH 3" WIDE PRESSURE SENSITIVE FOIL VAPOR BARRIER TAPE. FURTHER ATTACH INSULATION TO THE DUCTWORK BY SPIRALING WIRE AT 12" CENTERS ITS ENTIRE LENGTH. THE FINISHED PRODUCT SHALL BE VAPOR-PROOF AND FREE OF SAGS.

INTERNAL DUCT INSULATION SHALL BE APPLIED TO ALL HEATING AND/OR COOLING DUCTS AS SHOWN ON THE DRAWING. PROCEDURE MUST COMPLY WITH THE RECOMMENDATIONS OF THE "SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION'S DUCT LNER APPLICATIONS STANDARD, SECOND EDITION. INSULATION SHALL BE FIBERGLASS 1" THICK INTERRUPTIONS AND ADHERED WITH 100% COVERAGE OF ADHESIVE. ALL EXPOSED EDGES SHALL BE COVERED WITH ADHESIVE. METAL FASTENERS SHALL BE USED IN ADDITION TO ADHESIVE.

CONTROLS:

- THERMOSTATS SHALL BE AS INDICATED ON PLANS AND MOUNTED AT 48" ABOVE FINISHED FLOOR. ALL LOW VOLTAGE WIRE, WIRING, AND CONNECTIONS ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. ALL THERMOSTATS SHALL BE PROGRAMMED TO PROVIDE ADEQUATE SETBACK DURING NON-OCCUPIED HOURS, AND FOR EVAPORATOR FANS TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.

EXECUTION (MECHANICAL):

- BENDING OR FORCING OF DUCTWORK IS NOT ALLOWED. USE FITTINGS FOR ALL OFFSETS OR CHANGES IN ALIGNMENT OF DUCTING.

DUCTING SHALL BE FIRMLY HELD IN PLACE BY ADJUSTABLE HANGERS & SUPPORTS. ALL HANGERS AND SUPPORTS SHALL BE OF DESIGN WHICH WILL SUPPORT WEIGHT OF DUCT, INSULATION, AND PREVENT SAGGING. MAKESHIFT DEVICES ARE NOT ACCEPTABLE. PLUMBER'S TAPE IS NOT APPROVED.

WHERE APPLICATIONS ARE NOT SPECIFICALLY COVERED IN THIS SECTION, FOLLOW MANUFACTURER'S INSTRUCTIONS. ALL DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT FOR APPROVAL BEFORE STARTING WORK.

ALL EXPOSED DUCTWORK, TAPS AND REGISTERS SHALL BE LEVEL, STRAIGHT AND FREE OF DEFECTS. ALL DAMPERS AND REGISTERS MUST BE INSTALLED AS TO NOT WHISTLE OR RATTLE.

TESTING AND BALANCING SHALL BE PERFORMED FOLLOWING AABC OR NEBB BALANCING CRITERIA. THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER: VOLTAGE (RATED AND ACTUAL) FAN SPEEDS (RATED AND ACTUAL) MOTOR CURRENT (RATED AND ACTUAL) AIR QUANTITIES AT OUTLETS AND INLETS (RATED) AIR QUANTITIES AT OUTLETS AND INLETS ADJUSTED TO WITHIN 10% OF DESIGN SUPPLY AIR EXTERNAL STATIC PRESSURE ("W.G.) RETURN AIR EXTERNAL STATIC PRESSURE ("W.G.) TOTAL SUPPLY AIR CFM TOTAL RETURN AIR CFM TOTAL OUTSIDE AIR CFM EQUIPMENT NAME/PLATE DATA

FLUSH OUT ALL WATER MAINS, CONDENSATE DRAINS, SANITARY, AND STORM PIPING WITH WATER SO AS TO OBTAIN FREE FLOW.

ALL PIPING, EXCEPT WHERE NOTED OTHERWISE ON PLANS, SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS. COORDINATE PIPING LOCATION WITH DUCTWORK AND CONDUIT.

BENDING OR FORCING OF PIPE IS NOT ALLOWED. USE FITTINGS FOR ALL OFFSETS OR CHANGES IN ALIGNMENT OF PIPING.

CLEANOUTS SHALL BE ACCESSIBLE IN ALL CASES AND SHALL BE BROUGHT TO SURFACE ON "Y" BRANCHES. ALL CLEANOUTS SHALL BE PROVIDED WITH REMOVABLE FLOOR OR WALL PLATES.

PIPING SHALL BE FIRMLY HELD IN PLACE BY ADJUSTABLE HANGERS, SUPPORTS, AND PIPE RESTS. ALL HANGERS AND SUPPORTS SHALL BE OF DESIGN WHICH WILL SUPPORT WEIGHT OF PIPE, FLUID, INSULATION, AND PREVENT SAGGING. MAKESHIFT DEVICES ARE NOT ACCEPTABLE. PLUMBER'S TAPE IS NOT APPROVED.

PIPING SHALL BE ISOLATED FROM ALL DIRECT CONTACT WITH THE STRUCTURE BY THE USE OF MANUFACTURED HANGER ISOLATORS AND STUD ISOLATION DEVICES.

INSTALL ALL FIXTURES AND EQUIPMENT PER MANUFACTURER'S ROUGH-IN AND INSTALLATION INSTRUCTIONS. INSTALL HANGER AND CAPPED FIXTURES PER TITLE 24 AND A.D.A. REQUIREMENTS. PROVIDE 17 GAUGE CHROME PLATED P-TRAPS, ANGLE STOP AND FLEXIBLE RISERS, SUPPORT PLATES, ETC., AS REQUIRED.

PROVIDE FIRE STOPPING AND SLEEVES FOR PIPING PENETRATIONS OF FIRE-RATED WALLS, FLOORS, AND CEILINGS. METHOD OF SLEEVING AND FIRE STOPPING SHALL BE APPROVED BY FIRE MARSHALL.

PLUMBING TEST AND ADJUSTMENTS:

- ALL WORK SHALL BE COMPLETELY INSTALLED, SANITIZED, AND TESTED AS REQUIRED BY LOCAL CODE AND THE STATE ORDINANCES AND STATE SAFETY ORDERS, AND SHALL BE LEAK-TIGHT BEFORE INSPECTION IS REQUESTED. ALL TESTS SHALL BE REPEATED UPON REQUEST TO THE SATISFACTION OF THOSE MAKING THE INSPECTION.

SPECIFICATIONS

PLUMBING FITTINGS AND PIPING:

- SOIL, WASTE, AND VENT: ABOVE AND BELOW GRADE: PLASTIC ABS OR PVC PIPE AND FITTINGS WITH SOLVENT JOINTS.

DOMESTIC WATER PIPING: ABOVE GRADE: TYPE 'L' COPPER TUBING HARD DRAWN WITH WROUGHT COPPER SOLDER FITTINGS. SOLDER WITH 95 - 5 TIN-ANTIMONY SOLDER.

CONDENSATE AND DRAIN PIPING: TYPE 'L' COPPER TUBING HARD DRAWN WITH WROUGHT COPPER SOLDER FITTINGS. SOLDER WITH 95 - 5 TIN-ANTIMONY SOLDER.

GAS PIPING ABOVE GRADE: SCHEDULE 40 BLACK MALLEABLE IRON THREADED PIPE AND FITTINGS

PLUMBING FIXTURES:

- PLUMBING FIXTURES SHALL BE AS PER PLUMBING FIXTURE SCHEDULES-SEE PLANS

PIPING SPECIALTIES:

- SHUT-OFF VALVES (WATER): APOLLO, OR EQUIVALENT, FULL PORT BALL VALVE.

SUPPLIES: ANGLE TYPE WITH TEE HANDLE STOP AND RIGID RISERS: "SPEEDWAY," R1700-S SERIES, ROBERT ML-600 SERIES OR EQUAL P-TRAPS: CHROME PLATED BRASS 17 GAUGE WITH CP TUBING DRAIN TO WALL AND CLEAN-OUT PLUG; TRAP ARMS UNDER LAVATORIES, SINK, AND ESCUTCHEON AT WALL ALSO TO BE CHROME-PLATE.

FLOOR CLEANOUTS (FCO/COTG): J. R. SMITH #4810 COVER WITH U.P.C. BRONZE PLUG.

WALL CLEANOUTS (WCO): TERRI, PRIME-COATED WITH U.P.C. BRONZE PLUG IN "NO-HUB" TEST-TEE.

SHUT-OFF VALVES (GAS): CRANE #1128, OR EQUIVALENT (2" AND SMALLER).

PIPING HANGERS, SUPPORTS, AND ACCESS PANELS:

- PROVIDE HANGER SPECIFIED HEREIN. EQUIVALENT MODELS BY ELCEN, FEE & MASON OR KN-LINE ARE ACCEPTABLE.

ADJUSTABLE HANGERS WITH MINIMUM 3/8" RODS, UPPER ATTACHMENTS: B-LINE #B3690. PROVIDE SHIELDS AT INSULATED PIPING.

TRAPEZE HANGERS: B-LINE #B22 WITH PIPE CLAMPS AND GUIDES AS REQUIRED.

RISER CLAMPS: B-LINE #B3373.

OFFSET PIPE CLAMPS: B-LINE #B3148.

WATER PIPE ISOLATION: INCLUDE WITH HANGERS, 1/4" FELT OR APPROVED EQUIVALENT.

ACCESS PANEL FOR VALVES: MILCOR PAINTED STEEL SIZE AS REQUIRED FOR EASY ACCESS MINIMUM SIZE 12" X 12".

PIPING INSULATION:

- DOMESTIC HOT WATER PIPING: ENGINEERED POLYMER FOAM INSULATION (EPTI) 3/4" WALL. "IMCO" OR EQUIVALENT.

LAVATORY TRAPS AND H. W. SUPPLIES: PROWRAP, PROTECTIVE KIT BY MCGUIRE OR EQUIVALENT.

EXCAVATION AND BACKFILL:

- EXECUTE ALL EXCAVATION TO GRADES TO ACCOMMODATE ELEVATIONS INDICATED AND WHERE INVERT ELEVATIONS ARE NOT INDICATED, PROVIDE MINIMUM COVERAGE FOR ANY PIPING UNDER BUILDING SLAB (TOP OF PIPE TO UNDERSIDE OF SLAB) OF 18 INCHES.

EXCAVATION FOR PIPE SHALL BE CUT A MINIMUM OF SIX INCHES BELOW THE REQUIRED GRADE. A SIX-INCH BED OF SAND OR OTHER APPROVED MATERIAL SHALL BE THEN PLACED AND PROPERLY COMPACTED TO PROVIDE AN ACCURATE GRADE AND UNIFORM BEARING THROUGHOUT THE LENGTH OF THE PIPE.

SAND USED SHALL BE WASHED RIVER SAND NORMALLY USED FOR BACKFILL PURPOSES, FREE OF CLODS OR LUMPS OF CLAY, ROCK, DEBRIS, AND RUBBISH.

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED, AND APPROVED.

BACKFILL TO TOP 12 INCHES ABOVE TOP OF PIPING WITH FINE EARTH (EXCAVATED MATERIAL MAY BE USED) FREE OF EXCESSIVE AMOUNTS OF CLAY, DEBRIS, RUBBISH, ROCKS, OR CLODS, AS APPROVED BY THE ARCHITECT. BACKFILL ABOVE 12 INCHES FROM TOP OF PIPING MAY BE WITH EXCAVATED MATERIAL. APPLY BACKFILL BY HAND IN 6-INCH DEEP LAYERS THE FULL WIDTH OF THE TRENCH. MOISTEN EACH LAYER (DO NOT FLOOD OR Puddle), AND HAND TAMP TO MINIMUM 90 PERCENT COMPACTION BEFORE PROCEEDING WITH THE NEXT LAYER OF BACKFILL.

CLODS OR LUMPS ONE INCH IN SIZE OR LARGER WILL NOT BE PERMITTED IN THE BACKFILL. IF THE EXCAVATED MATERIAL IS NOT SUITABLE, ADEQUATE MATERIAL SHALL BE PROVIDED BY HAULING IN FROM OTHER LOCATIONS.

SURPLUS EARTH OR MATERIAL REMAINING AFTER BACKFILLING SHALL BE REMOVED FROM THE SITE AS INDICATED IN SECTION ENTITLED "EARTHWORK."

DO NOT EXCAVATE UNDER OR NEAR FOUNDATIONS OR FOOTINGS EXCEPT IN MANNER PERMITTED AND APPROVED BY THE ARCHITECT. DO NOT BACKFILL UNTIL INSTALLED PIPING HAS BEEN SUCCESSFULLY TESTED AND APPROVED FOR BACKFILL BY THE JURISDICTIONAL INSPECTOR AND THE ARCHITECT.

PROVIDE SLEEVES AT ALL PIPE PENETRATIONS OF FOOTING AND FOUNDATIONS.

EXECUTION (PLUMBING):

- SOIL, WASTE AND VENT PIPING IS TO BE ASSEMBLED, CONNECTED, AND SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENCASE BELOW GRADE SOIL, WASTE, AND VENT PIPING IN SAND. ALL AROUND PIPE, WRAP PENETRATIONS OF CONCRETE SLAB WITH FOAMED PLASTIC SLEEVING MATERIAL. ALL SOIL, WASTE, AND VENT PIPING SHALL HAVE A SMOOTH AND UNIFORM INVERT, AND BACK-FILLED SO AS NOT TO DISTURB THE PIPE OR JOINTING.

JOINTS IN COPPER TUBING SHALL BE MADE BY FIRST THOROUGHLY CLEANING THE SURFACE OF THE PIPE AND FITTINGS, APPLYING A COPPERIZED FLUX AND SWEAT WITH 95 - 5 TIN ANTIMONY SOLDER OR EQUIVALENT LEAD-FREE SOLDER.

FLUSH OUT ALL WATER MAINS, CONDENSATE DRAINS, SANITARY, AND STORM PIPING WITH WATER SO AS TO OBTAIN FREE FLOW.

ALL PIPING, EXCEPT WHERE NOTED OTHERWISE ON PLANS, SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS. COORDINATE PIPING LOCATION WITH DUCTWORK AND CONDUIT.

BENDING OR FORCING OF PIPE IS NOT ALLOWED. USE FITTINGS FOR ALL OFFSETS OR CHANGES IN ALIGNMENT OF PIPING.

CLEANOUTS SHALL BE ACCESSIBLE IN ALL CASES AND SHALL BE BROUGHT TO SURFACE ON "Y" BRANCHES. ALL CLEANOUTS SHALL BE PROVIDED WITH REMOVABLE FLOOR OR WALL PLATES.

PIPING SHALL BE FIRMLY HELD IN PLACE BY ADJUSTABLE HANGERS, SUPPORTS, AND PIPE RESTS. ALL HANGERS AND SUPPORTS SHALL BE OF DESIGN WHICH WILL SUPPORT WEIGHT OF PIPE, FLUID, INSULATION, AND PREVENT SAGGING. MAKESHIFT DEVICES ARE NOT ACCEPTABLE. PLUMBER'S TAPE IS NOT APPROVED.

PIPING SHALL BE ISOLATED FROM ALL DIRECT CONTACT WITH THE STRUCTURE BY THE USE OF MANUFACTURED HANGER ISOLATORS AND STUD ISOLATION DEVICES.

INSTALL ALL FIXTURES AND EQUIPMENT PER MANUFACTURER'S ROUGH-IN AND INSTALLATION INSTRUCTIONS. INSTALL HANGER AND CAPPED FIXTURES PER TITLE 24 AND A.D.A. REQUIREMENTS. PROVIDE 17 GAUGE CHROME PLATED P-TRAPS, ANGLE STOP AND FLEXIBLE RISERS, SUPPORT PLATES, ETC., AS REQUIRED.

PROVIDE FIRE STOPPING AND SLEEVES FOR PIPING PENETRATIONS OF FIRE-RATED WALLS, FLOORS, AND CEILINGS. METHOD OF SLEEVING AND FIRE STOPPING SHALL BE APPROVED BY FIRE MARSHALL.

PLUMBING TEST AND ADJUSTMENTS:

- ALL WORK SHALL BE COMPLETELY INSTALLED, SANITIZED, AND TESTED AS REQUIRED BY LOCAL CODE AND THE STATE ORDINANCES AND STATE SAFETY ORDERS, AND SHALL BE LEAK-TIGHT BEFORE INSPECTION IS REQUESTED. ALL TESTS SHALL BE REPEATED UPON REQUEST TO THE SATISFACTION OF THOSE MAKING THE INSPECTION.

HVAC LEGEND

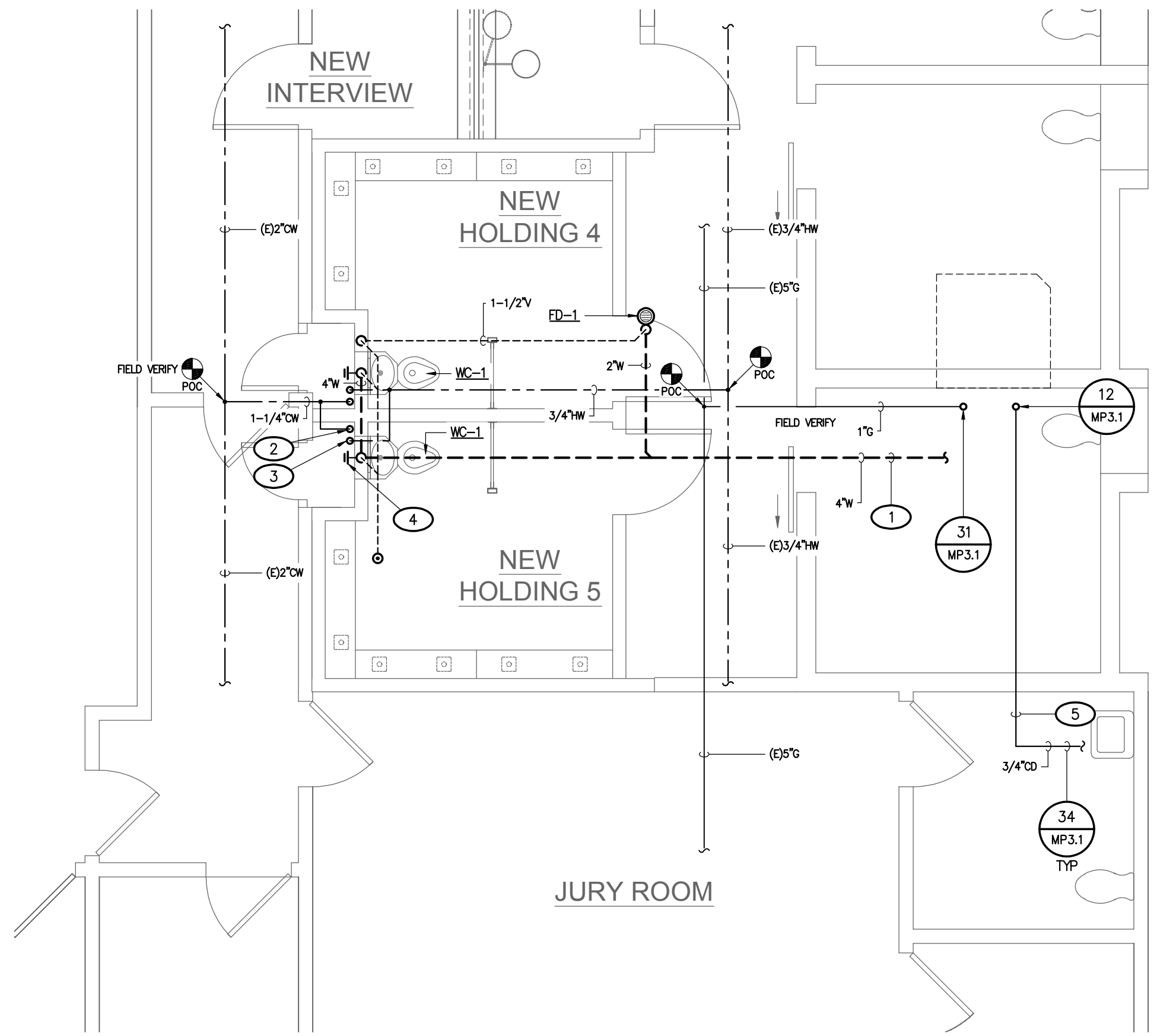
SYMBOL	DESCRIPTION	ABBREV.	SYMBOL	DESCRIPTION	ABBREV.	SYMBOL	DESCRIPTION	ABBREV.
	SUPPLY AIR DIFFUSER	SA		RECTANGULAR DUCT	-		VOLUME DAMPER	VD
	RETURN AIR GRILLE	RA		LINED RECTANGULAR DUCT	-		FIRE DAMPER	FD
	EXHAUST AIR GRILLE	EA		RIGID ROUND DUCT	-		SMOKE DETECTOR	SD
	CEILING EXHAUST FAN	CEF		FLEXIBLE ROUND DUCT	-		FLEXIBLE CONNECTION	FC
	SIDEWALL GRILLE, REGISTER, OR LOUVER	-		POINT OF CONNECTION OR DISCONNECTION	POC/POD		THERMISTOR SENSOR	-
	GRILLE, DIFFUSER, REGISTER, OR LOUVER TAG	-		DIAMETER	DA		EQUIPMENT OR DUCTWORK TO BE REMOVED	-

HVAC ABBREVIATIONS

ABV	ABOVE	EDG	ENTERING DRY BULB	MER	MECHANICAL EQUIPMENT ROOM	SA	SUPPLY AIR
A/C	AIR CONDITIONING, CONDITIONER	EER	ENERGY EFFICIENCY RATIO	MFR	MANUFACTURER	SEER	STATIC PRESSURE
AD	ACCESS DOOR	ELC	ELECTRICAL	N/A	NET FREE AREA	SHT	SEASONAL ENERGY EFFICIENCY RATIO
AFF	ABOVE FINISH FLOOR	ESP	EXTERNAL STATIC PRESSURE	N/A	NET FREE AREA	SQ	SHEET
ALUM	ALUMINUM	EWB	ENTERING WET BULB	NIC	NOT IN CONTRACT	SSE	STEADY STATE EFFICIENCY
ARCH	ARCHITECTURAL, ARCHITECT	FAU	FACE AREA	NO	NUMBER	TA	TRANSFER AIR
ARCH BLDG	ARCHITECTURAL, ARCHITECT	FC	FORCED AIR UNIT	NOM	NOMINAL	TBR	TO BE REMOVED
ARD	AIR PRESSURE DROP	FJ	FAN COIL UNIT	NTS	NOT TO SCALE	TEMP	TEMPERATURE
BTU	BRITISH THERMAL UNIT	FD	FIRE DAMPER	OA	OUTSIDE AIR	TYP	TYPICAL
BTU/H	BTU PER HOUR	FLA	FULL LOAD AMPS	OAI	OUTSIDE AIR INTAKE	UL	UNDERWRITER'S LABORATORIES
CAP	CAPACITY	FPM	FEET PER MINUTE	OPD	OPPOSED BLADE DAMPER	UN	UNLESS OTHERWISE NOTED
CFD	CEILING FIRE DAMPER	FSD	COMBINATION FIRE/SMOKE DAMPER	OPER	OPERATING	UTR	UP THROUGH ROOF
CFM	CUBIC FEET PER MINUTE	GA	U.S. GAUGE (OR GAGE)	OSA	OFFICE OF STATE ARCHITECT	VD	VOLUME DAMPER
CNN	CONNECTION	GALV	GALVANIZED	PC	PLUMBING CONTRACTOR	W	WITH
CSE	CALIFORNIA SEASONAL EFFICIENCY	GC	GENERAL CONTRACTOR	PLMG	PLUMBING	W/B	WET BULB
CTE	CAP TO EXISTING	GSM	GALLONS PER MINUTE	POC	POINT OF CONNECTION	WG	WATER GAUGE
CU	CONDENSING UNIT	HP	HORSEPOWER	POD	POINT OF DISCONNECTION	WMS	WIRE MESH SCREEN
DET	DETAIL	HRC	HOUR, HOURS	PRESS	PRESSURE	WT	WEIGHT
DA	DIAMETER	HVAC	HEATING, VENTILATING, AIR CONDITIONING	PSI	POUNDS PER SQUARE INCH	WFB	WALL FIRE DAMPER
DAV	DOWN	ID	INSIDE DIAMETER	RA	RETURN AIR	(X2)	TYPICAL OF 2
DWG	DRAWING	LBS	POUNDS	REV	REVISION		
(E)	EXISTING	KBT	BTU PER HOUR (THOUSANDS)	RND	ROUND		
EA	EXHAUST AIR	MC	MECHANICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE		
EC	ELECTRICAL CONTRACTOR						

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABB.	SYMBOL	DESCRIPTION	ABB.	SYMBOL	DESCRIPTION	ABB.
	SOIL, WASTE, OR SEWER	W		PIPE CONNECTION	-		POINT OF CONNECTION/DIS.	POC/POD
	GREASE WASTE	GW		CAPPED OR PLUGGED PIPE	-		FIXTURE GAS SUPPLY	-
	STORM/OVERFLOW DRAIN	SD/OD		PIPE OR EQUIP. T.B.R.	-		WATER HAMMER ARRESTOR	WHA
	VENT	V		HOSE BIB	HB		GATE VALVE	-
	CONDENSATE DRAIN	COND		RECESSED HOSE BIB	RHB		BALL VALVE	-
	COLD WATER	CW		FIRE RISER	-			



PLUMBING - FLOOR PLAN
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE								
SYMBOL	MAKE & MODEL	DESCRIPTION	ROUGH IN SIZES				FITTINGS OR ACC.	NOTES
			HW	CW	W	V		
WC-1	ACORN #1418-FA-CT-2-BP-4 STAINLESS STEEL	FLOOR MOUNTED, Vandal/Suicide Resistant Combination Water Closet/Lavatory	1/2"	1-1/4"	3"	2"	PUSH BUTTON FLUSH VALVE BY OTHERS, AIR-TROL HW & CW LAVATORY VALVE, & SHOKTRUL WATER HAMMER ARRESTOR	ALL APPLY
FD-1	J.R. SMITH SERIES # 2005Y02-A05PB-U	5"Ø, CAST IRON FLOOR DRAIN WITH BRONZE STRAINER	-	1/2"	2"	1-1/2"	PROVIDE WITH "PRECISION PRODUCTS" PRIME-RITE TRAP PRIMER EXPOSED MOUNT IN PLUMBING CHASE	-

NOTES:

- ALL FIXTURES DESIGNATED TO BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES SHALL BE IN ACCORDANCE WITH THE "AMERICANS WITH DISABILITIES ACT OF 1990" FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 - "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODE.
- ALL PLUMBING FIXTURES, EQUIPMENT, TRIM, AND FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH THE GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR THE COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND CODES.
- MAXIMUM ALLOWABLE WATER USAGE: WC = 1.6 GPF LAV = 0.5 GPM URN = 1.0 GPF SK = 0.5 GPM

AIR TERMINAL SCHEDULE											
SYMBOL	MFG	MODEL	NECK SIZE	BORDER	CONST.	FINISH	OBD	NOTES	LEGEND		
									MOUNTING LOCATION	FUNCTION	DEVICE
CSD-1	TITUS	SG-PR	12"x12"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2	C	E	D
CSD-2	TITUS	SG-PR	8"x8"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2	D	R	G
CSD-3	TITUS	MCD	8"x8"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2	Dr	S	R
CSD-4	TITUS	MCD	12"x12"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	2	W	I	L
CRG-1	TITUS	J50RL	12"x12"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1	F	V	S
CRG-2	TITUS	SG-PR	8"x8"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1			
CRG-3	TITUS	301RS	8"x8"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1			
CEG-1	TITUS	SG-PR	12"x12"	BORDER TYPE 1	STEEL	SOFT WHITE	YES	1			

NOTES:

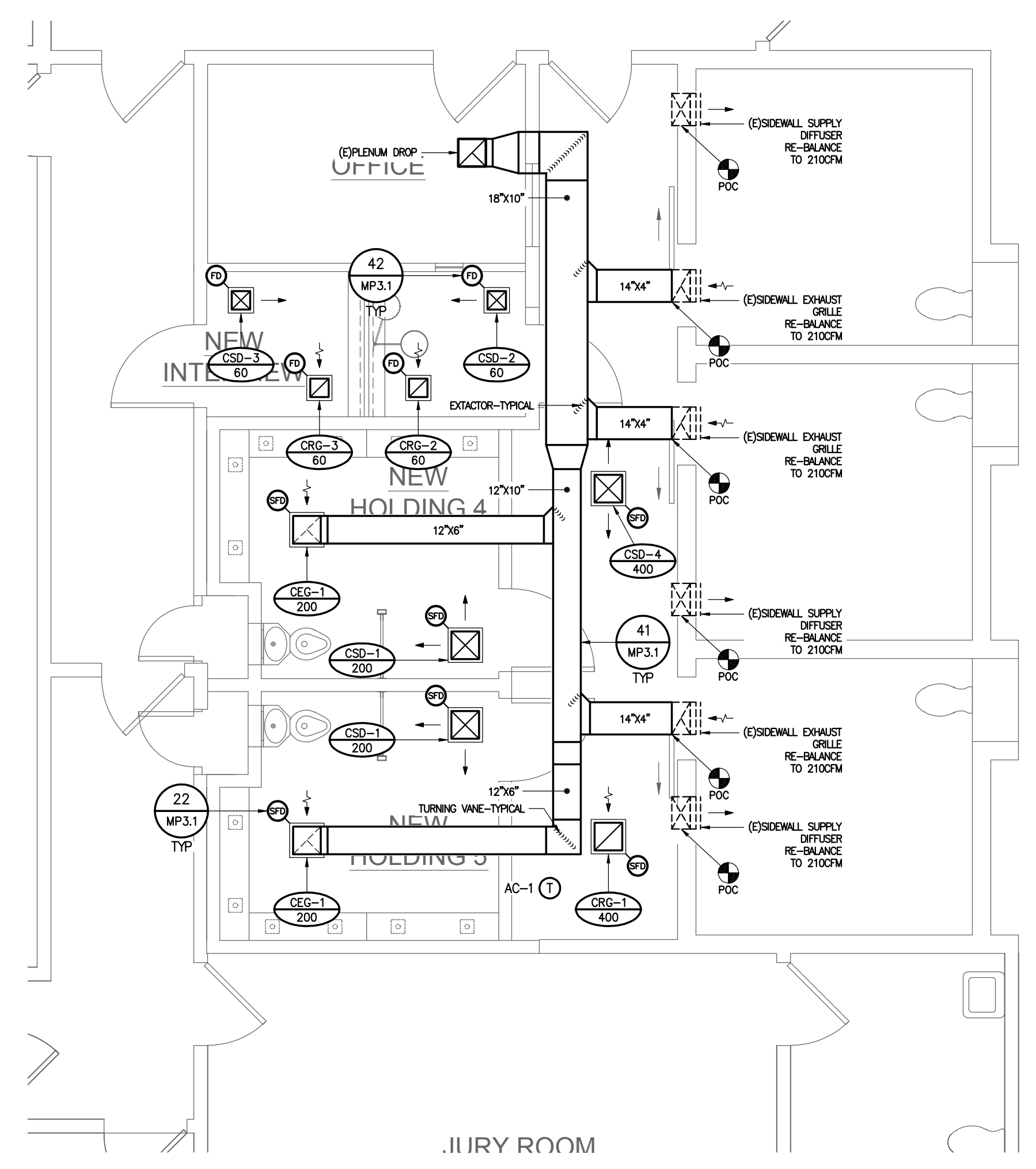
- PAINT GRILLE CANS FLAT BLACK INSIDE
- MATCH DEFLECTIONS SEEN ON PLAN

EXAMPLE: CSD=CEILING SUPPLY DIFFUSER

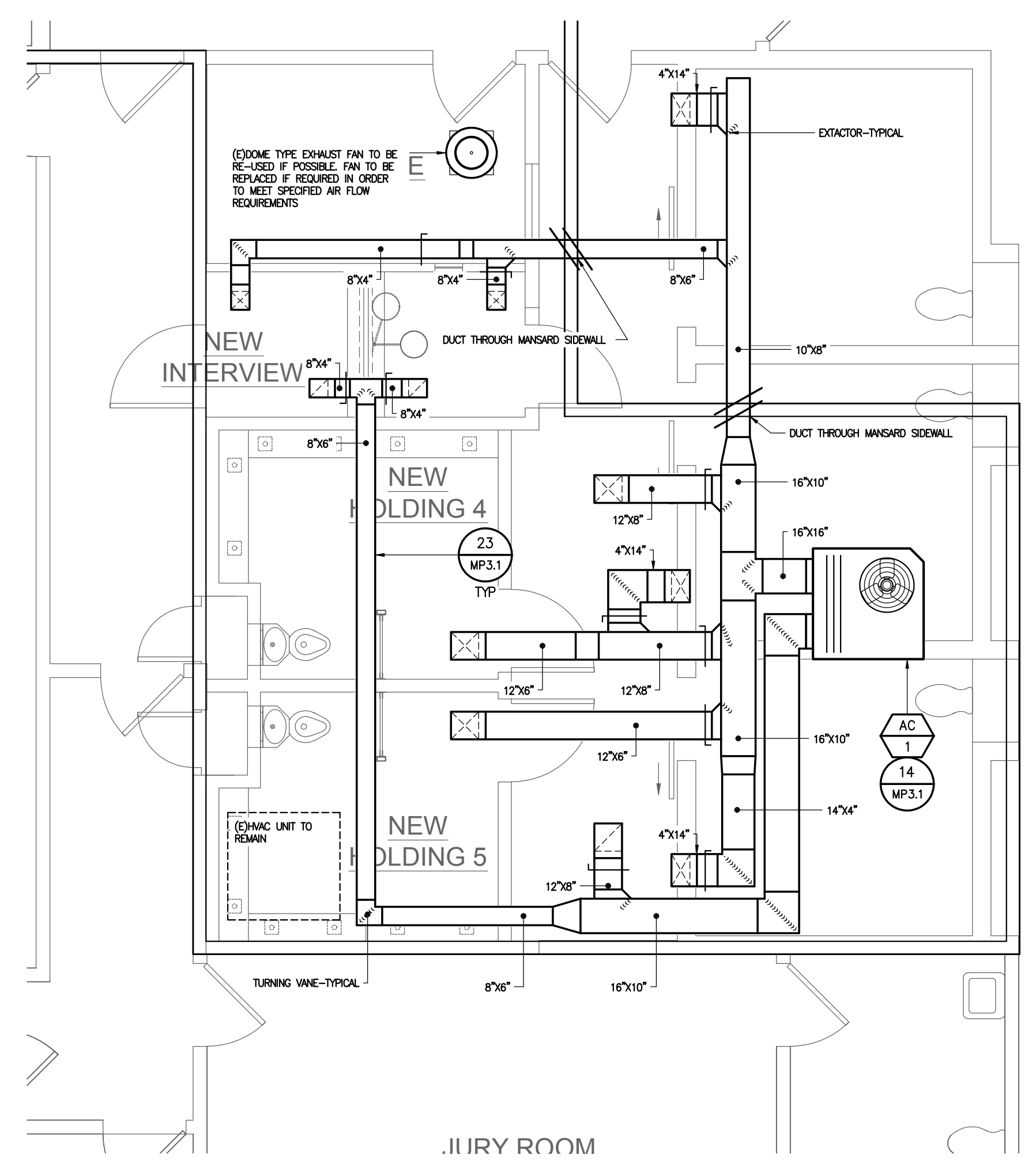
PACKAGED HVAC UNIT SCHEDULE																
SYMBOL	MFG	MODEL	COOLING CAPACITY (BTUH)	SEER	EER	POWER	MCA (AMPS)	MOCF (AMPS)	CFM	OAI CFM	E.S.P. "W.C.	ID BLOWER MOTOR HP	GAS INPUT (BTUH)	HEATING EFFICIENCY (AFUE%)	WEIGHT (LBS)	NOTES
AC-1	YORK	DNZ060N065	57,500	13.0	10.9	208/230-1-60	42.7	60	1550	1030	0.6	1.0	108,000	80.0	680	ALL APPLY

NOTES:

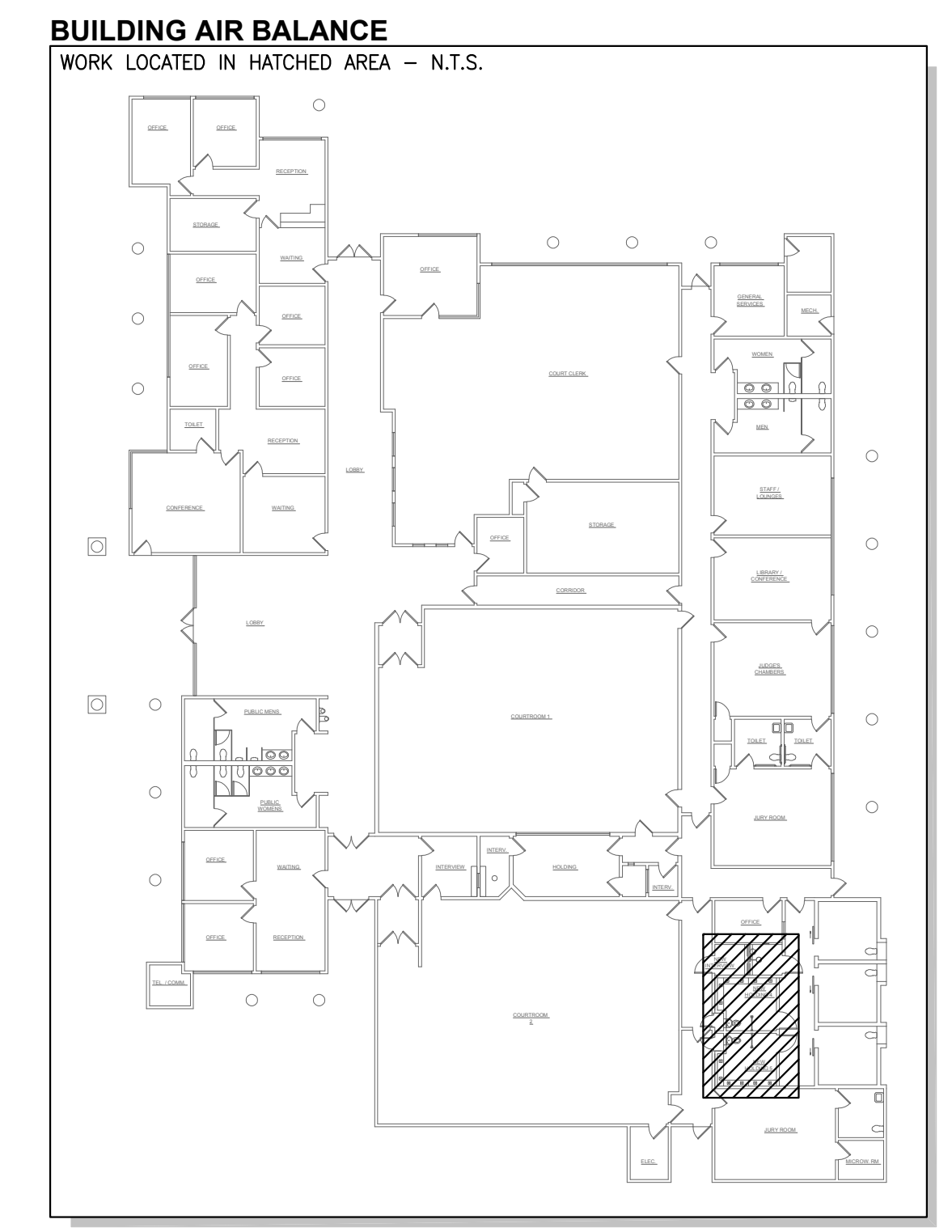
- PROVIDE MANUAL OUTSIDE AIR DAMPER
- PROVIDE 2 STAGE COOLING 7 DAY AUTO CHANGEOVER THERMOSTAT (FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS) MOUNT AT 48" A.F.F.
- PROVIDE SPRING ISOLATED ROOF CURB BY "PRO VENT"



MECHANICAL - FLOOR PLAN
1/4" = 1'-0"



MECHANICAL - ROOF PLAN
1/4" = 1'-0"



- REFERENCE NOTES**
- TIE INTO EXISTING 4" SEWER LATERAL OUTSIDE OF BUILDING. PROVIDE CLEANOUT TO GRADE ON NEW PIPING AHEAD OF POINT OF CONNECTION.
 - 1-1/4" CW DOWN PLUMBING CHASE. PROVIDE FULL PORT BRASS SOV & WATER HAMMER ARRESTOR, 1" TO COMBINATION WATER CLOSET LAVATORY UNIT, & 1/2" TRAP PRIMER TO FLOOR DRAIN "P" TRAP WITH SHUTOFF VALVE AHEAD OF PRIMER VALVE & AN APPROVED AIR-GAP ON THE OUTLET SIDE OF THE TRAP PRIMER VALVE - TYPICAL
 - 1/2" HW DOWN PLUMBING CHASE TO LAVATORY CONNECTION. PROVIDE FULL PORT BRASS SOV - TYPICAL
 - 4" CLEANOUT ON EXPOSED WASTE PIPING
 - 3/4" TYPE "L" COPPER CONDENSATE DRAIN PIPING FROM AC UNIT ON ROOF TO (E)LAVATORY TAILPIECE CONNECTION. SLOPE 1/8" PER FOOT TOWARD OUTLET ON ANY HORIZONTAL SECTION OF PIPING. PROVIDE MINIMUM 1" AIR GAP ABOVE P-TRAP WATER LEVEL. SEE DETAIL 11/MP3.1



PROJECT TITLE:
SHAFTER/WASCO SUPERIOR COURT
325 CENTRAL VALLEY HIGHWAY
SHAFTER, CA

CLIENT:
FRASER SEIPLE ARCHITECTS
677 OCEAN STREET
SAN LUIS OBISPO, CA
(805) 544-6161

SHEET TITLE AND DESCRIPTION:
MECHANICAL/PLUMBING
FLOOR & ROOF PLANS

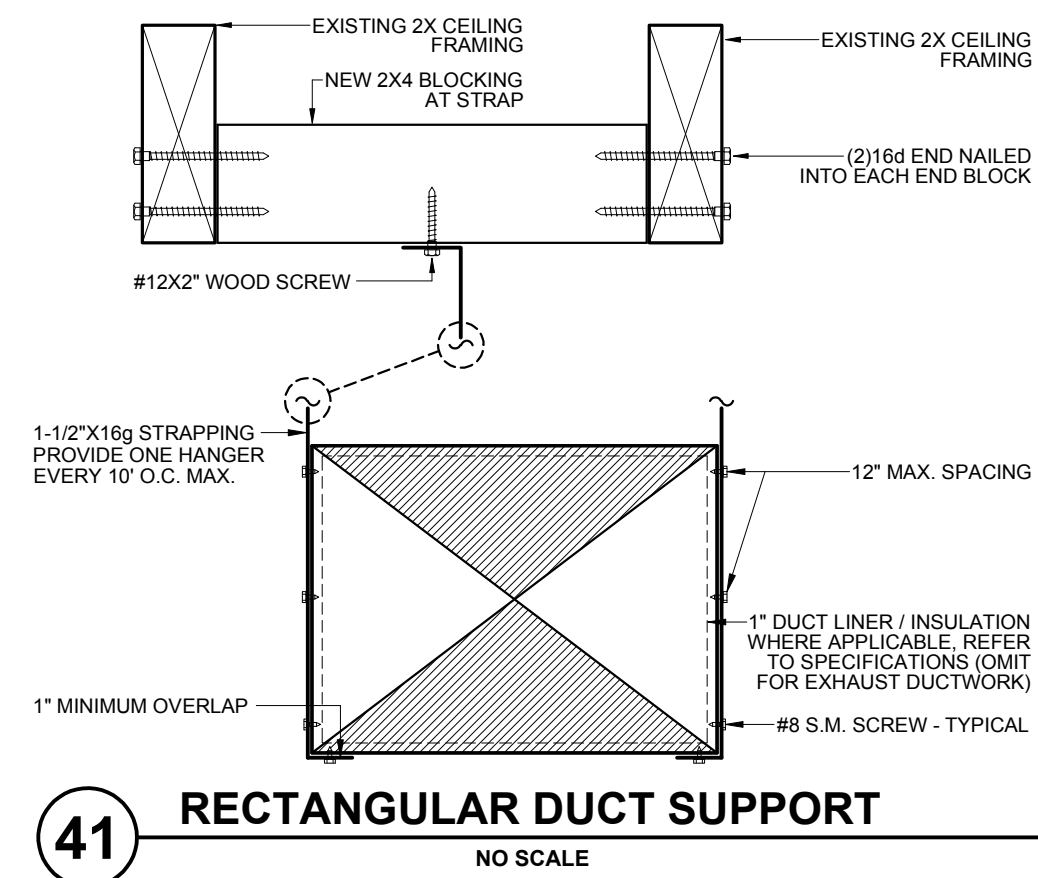
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10.20.10	RE-SUBMITTAL
11.16.10	RE-SUBMITTAL
12.21.10	RE-SUBMITTAL
05.05.11	RE-SUBMITTAL
08.15.11	FOR CONSTRUCTION

PLOT DATE:
8/29/2011 2:25 PM

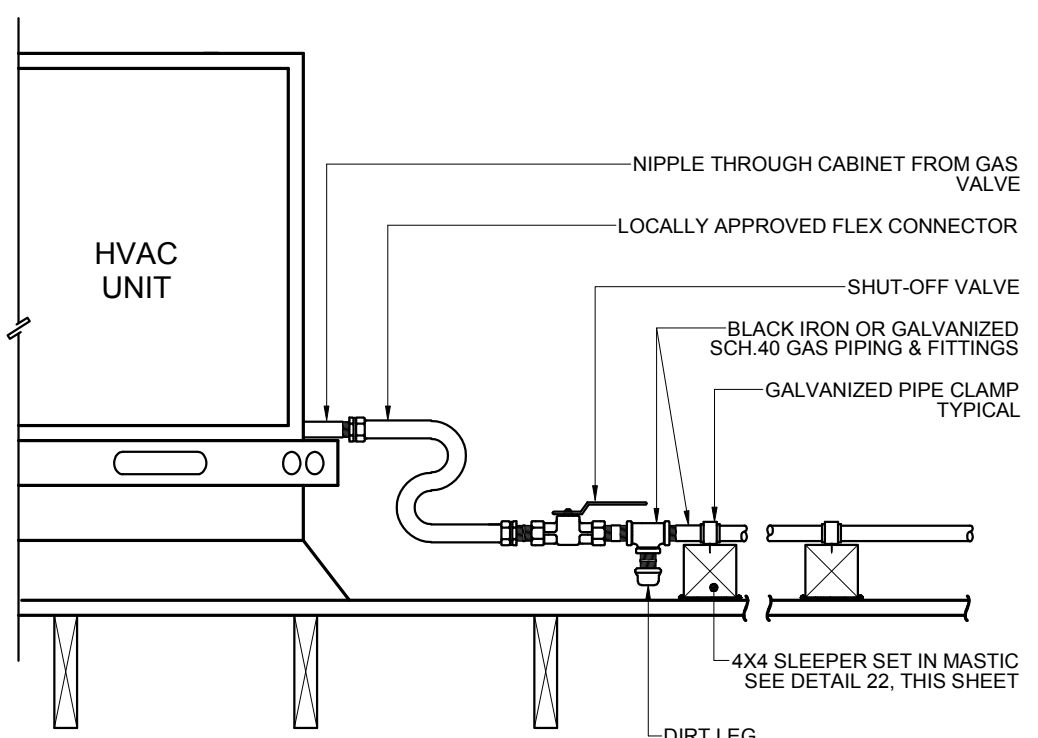
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TDR

JVA JOB #
M10044

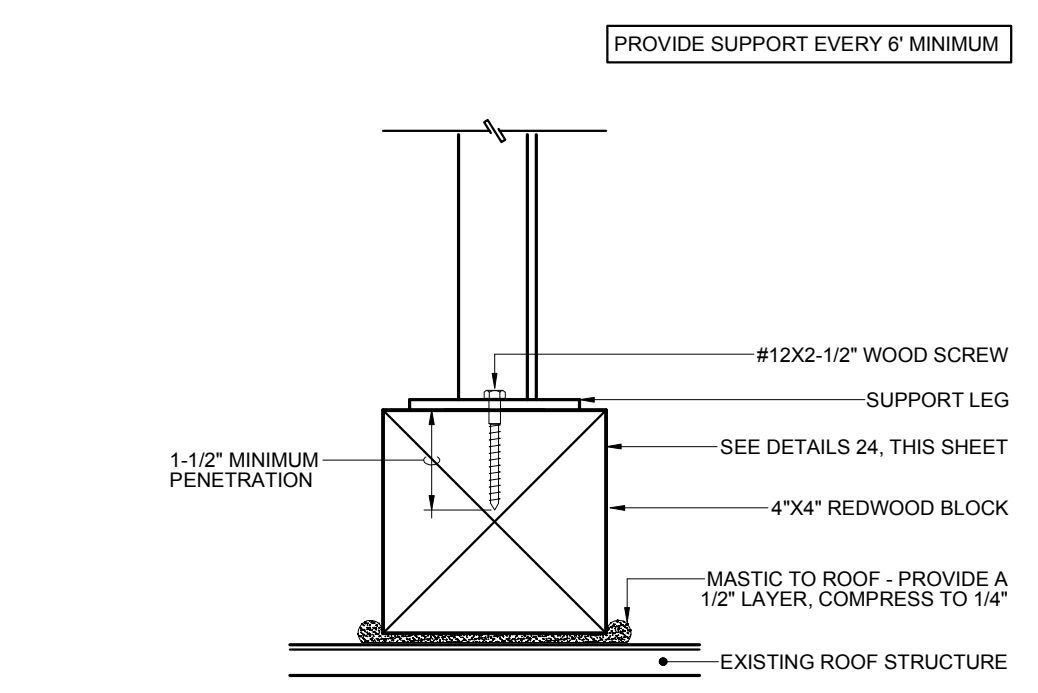
SHEET
MECHANICAL/PLUMBING
FLOOR PLANS
MP2.1



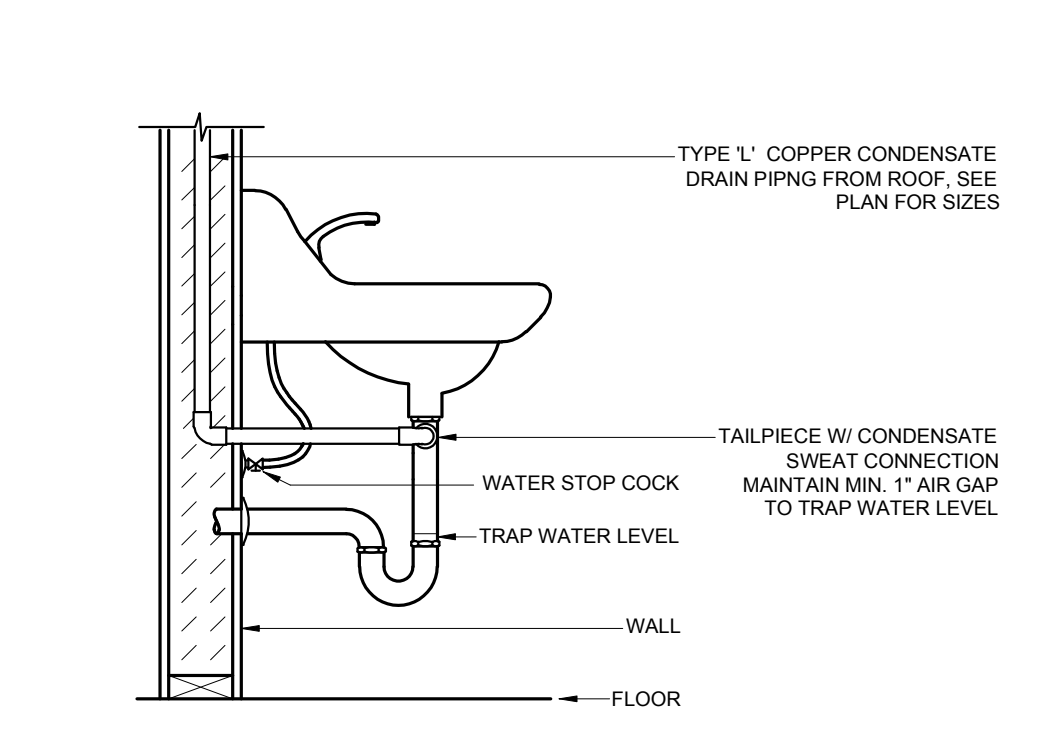
41 **RECTANGULAR DUCT SUPPORT**
NO SCALE



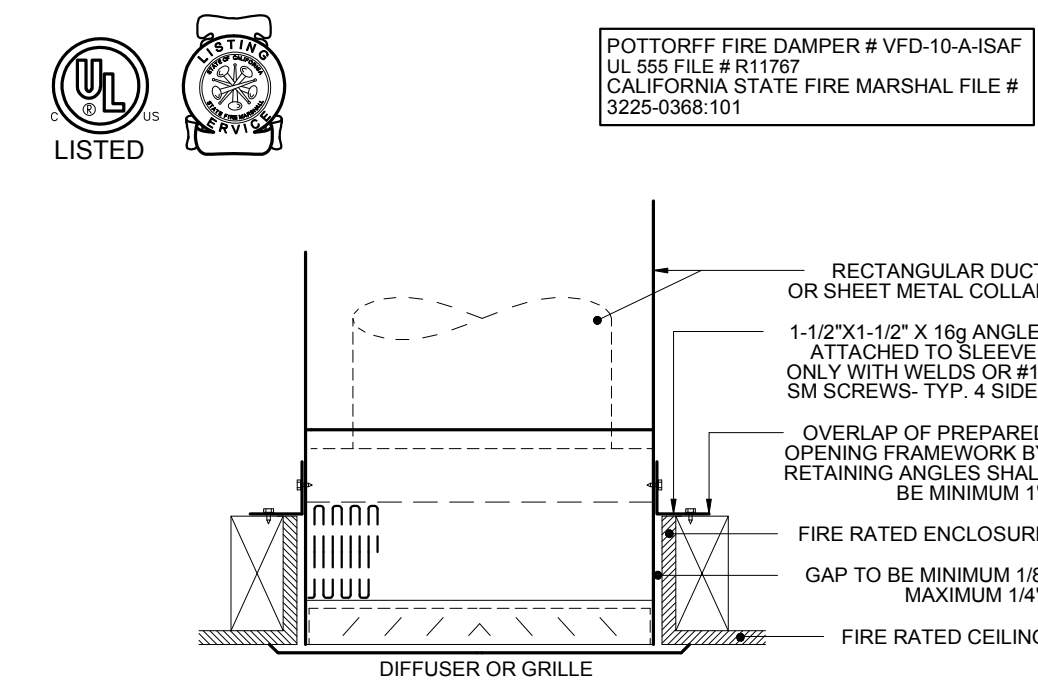
31 **HVAC UNIT GAS CONNECTION**
NO SCALE



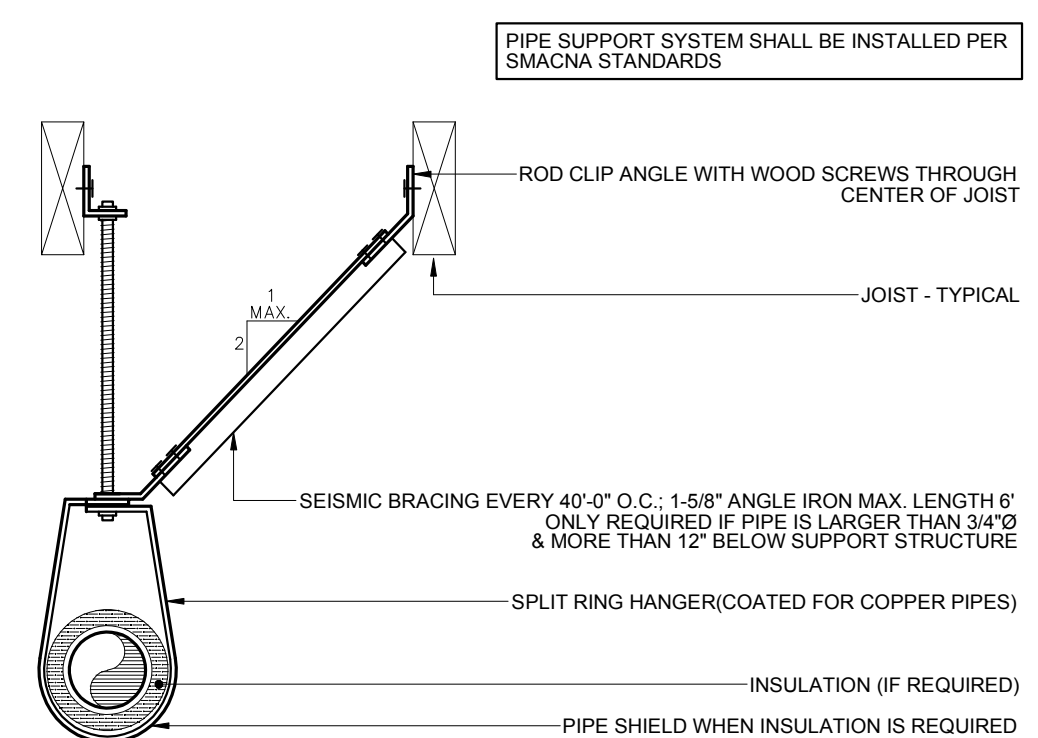
21 **TYPICAL SUPPORT TO ROOF**
NO SCALE



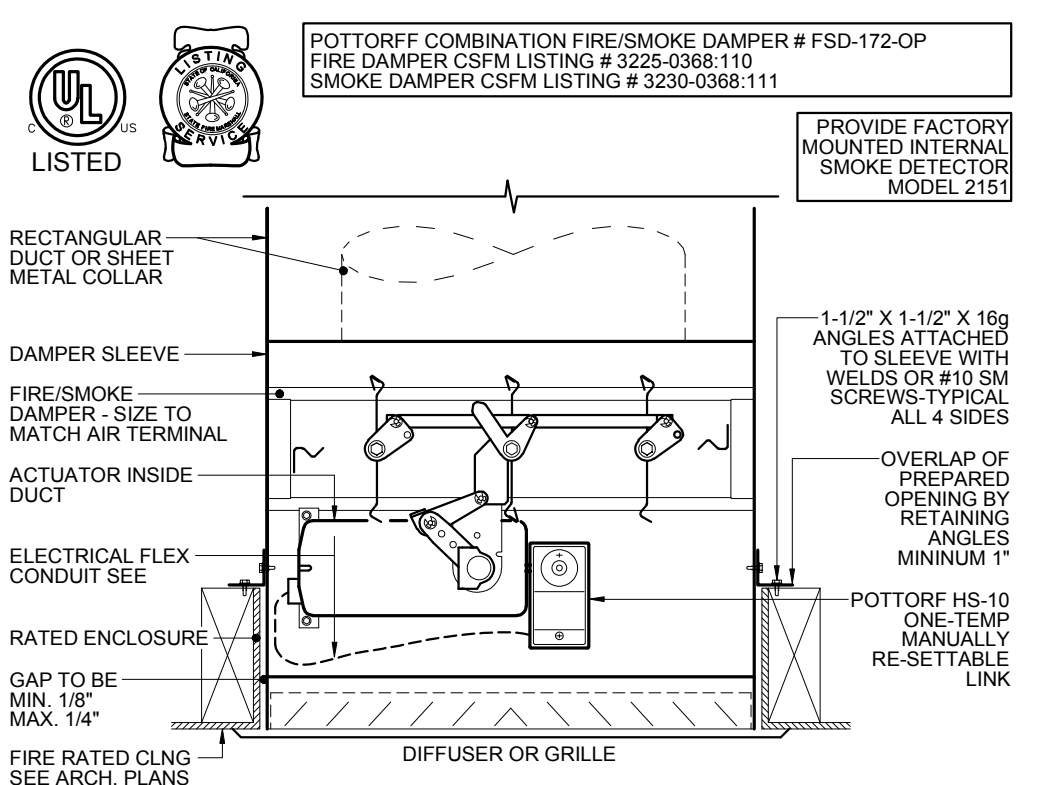
11 **CONDENSATE DRAIN CONNECTION**
NO SCALE



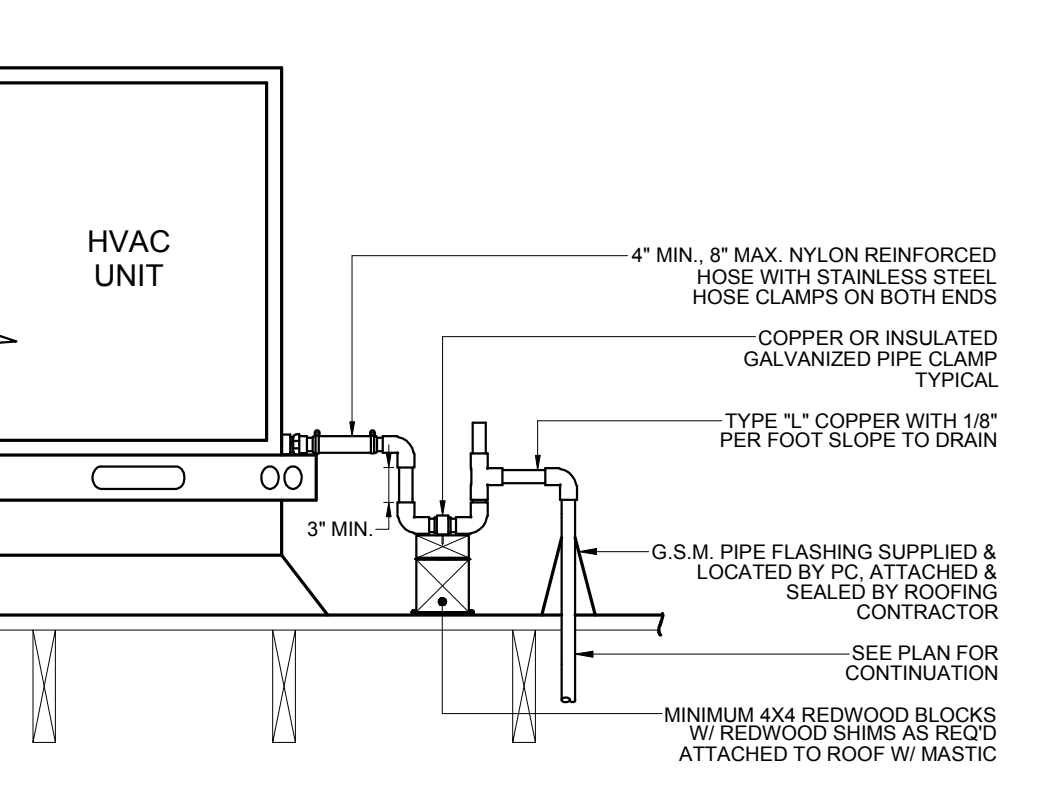
42 **CEILING FIRE DAMPER**
NO SCALE



22 **1-1/2 HOUR CEILING FIRE/SMOKE DAMPER**
NO SCALE



22 **1-1/2 HOUR CEILING FIRE/SMOKE DAMPER**
NO SCALE

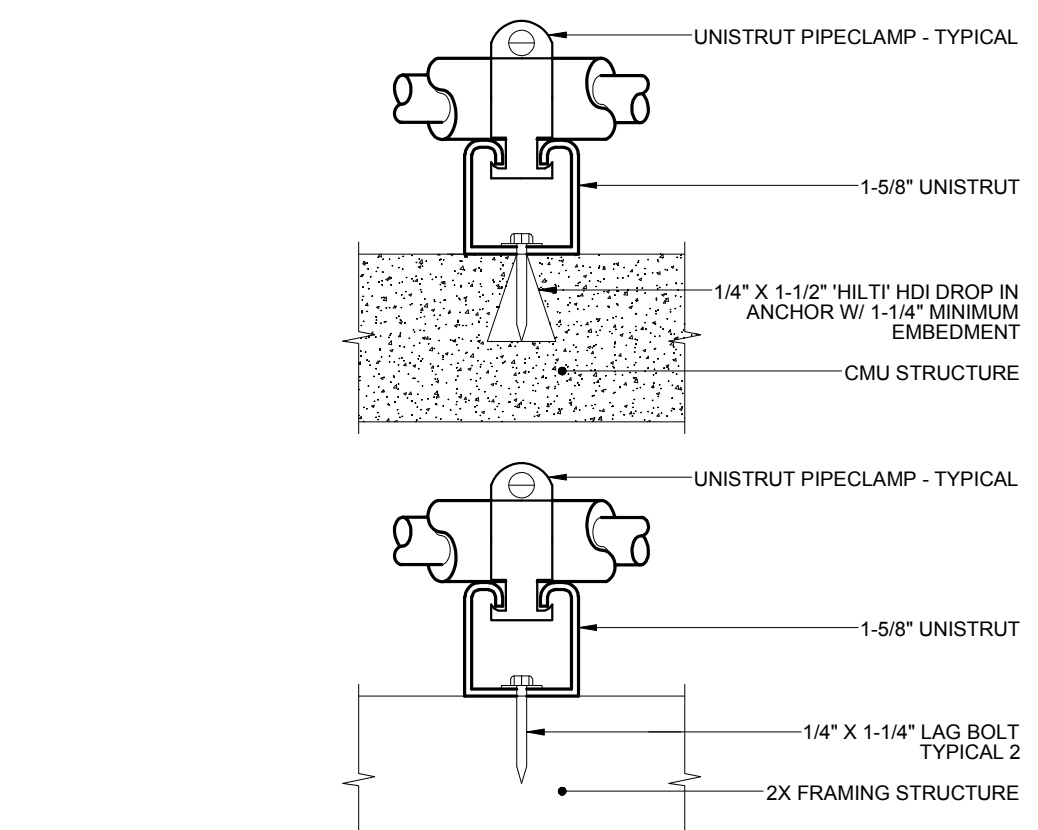


12 **HVAC UNIT CONDENSATE DRAIN**
NO SCALE

HANGER RODS - SIZE AND SPACING SCHEDULE

PIPE SIZE	MIN. HANGER ROD SIZE	WATER AND WASTE				NATURAL GAS
		COPPER	STEEL SCH. 40	CAST IRON STD.	PLASTIC DWV/SCH. 40	SCH. 40
1/2"	1/4"	8 FT.	6 FT.	-	4 FT.	6 FT.
3/4"	1/4"	8 FT.	8 FT.	-	4 FT.	8 FT.
1"	1/4"	8 FT.	8 FT.	-	4 FT.	8 FT.
1-1/4"	3/8"	6 FT.	10 FT.	-	4 FT.	10 FT.
1-1/2"	3/8"	6 FT.	10 FT.	10 FT.	4 FT.	10 FT.
2"	3/8"	10 FT.	10 FT.	10 FT.	4 FT.	10 FT.
2-1/2"	1/2"	10 FT.	10 FT.	10 FT.	4 FT.	10 FT.
3"	1/2"	10 FT.	10 FT.	10 FT.	4 FT.	10 FT.
4"	1/2"	10 FT.	10 FT.	10 FT.	4 FT.	10 FT.

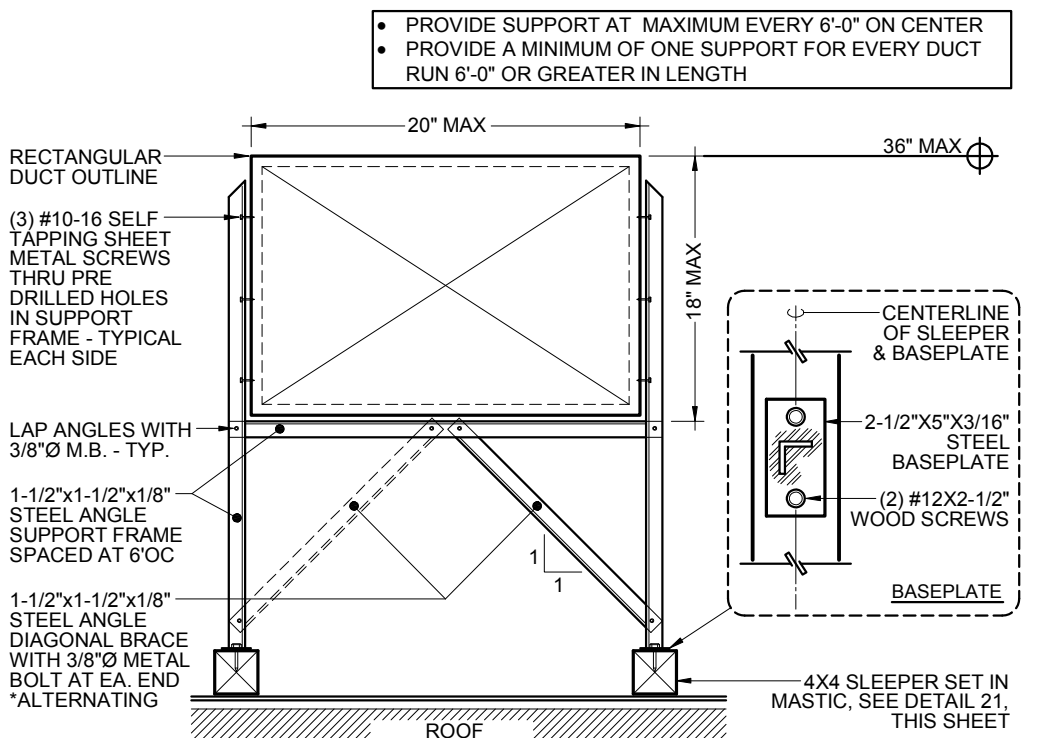
NOTE: LONGITUDINAL BRACINGS AT 80° O.C. MAXIMUM UNLESS OTHERWISE NOTED



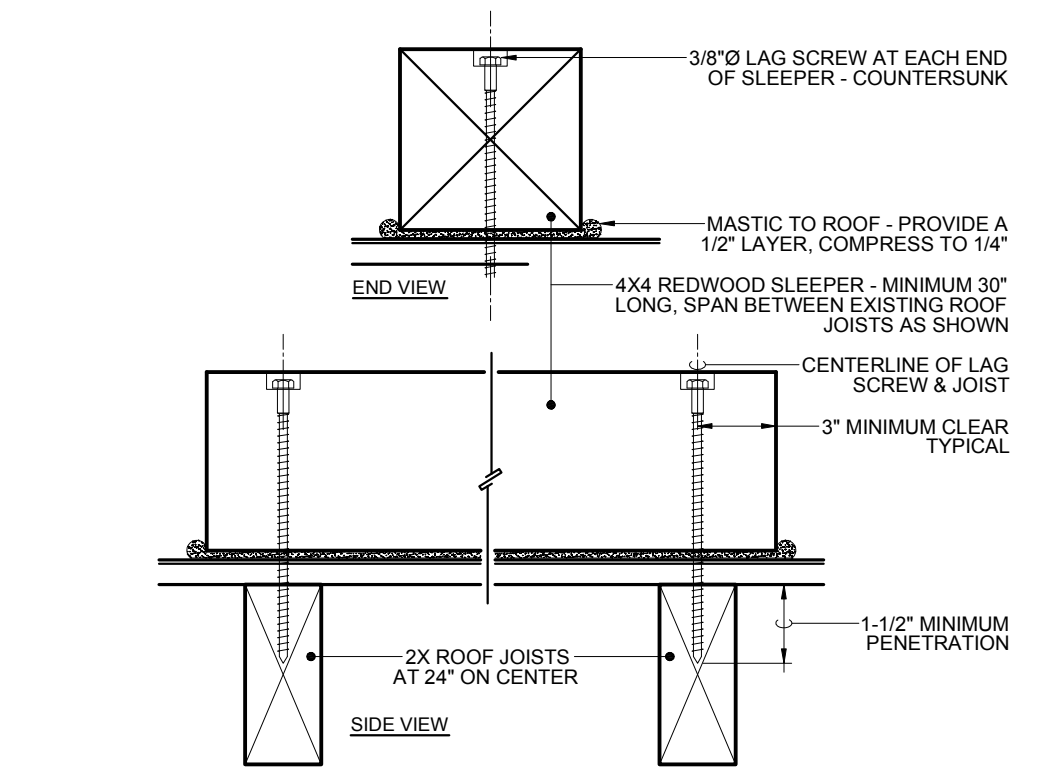
SIZE AND SPACING SCHEDULE

PIPE SIZE	WATER, WASTE, AND VENT			NATURAL GAS
	COPPER	PLASTIC DWV/SCH. 40	IRON	SCH. 40
1/2"	6 FT.	4 FT.	4 FT.	6 FT.
3/4"	6 FT.	4 FT.	4 FT.	8 FT.
1-1/4"	6 FT.	4 FT.	4 FT.	10 FT.
1-1/2"	6 FT.	4 FT.	4 FT.	10 FT.
2"	10 FT.	4 FT.	4 FT.	10 FT.
2-1/2"	10 FT.	4 FT.	4 FT.	10 FT.
3"	10 FT.	4 FT.	4 FT.	10 FT.
4"	10 FT.	4 FT.	4 FT.	10 FT.

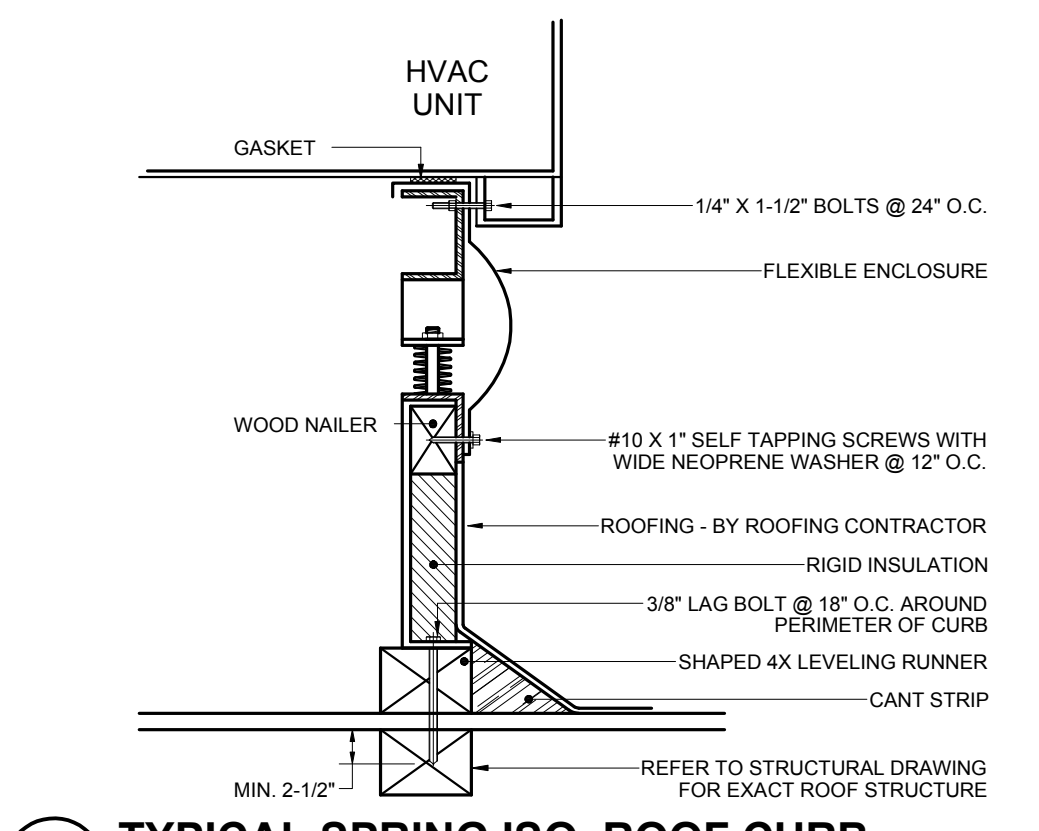
34 **TYPICAL PIPING SUPPORT**
NO SCALE



23 **OUTDOOR DUCT SUPPORT**
NO SCALE



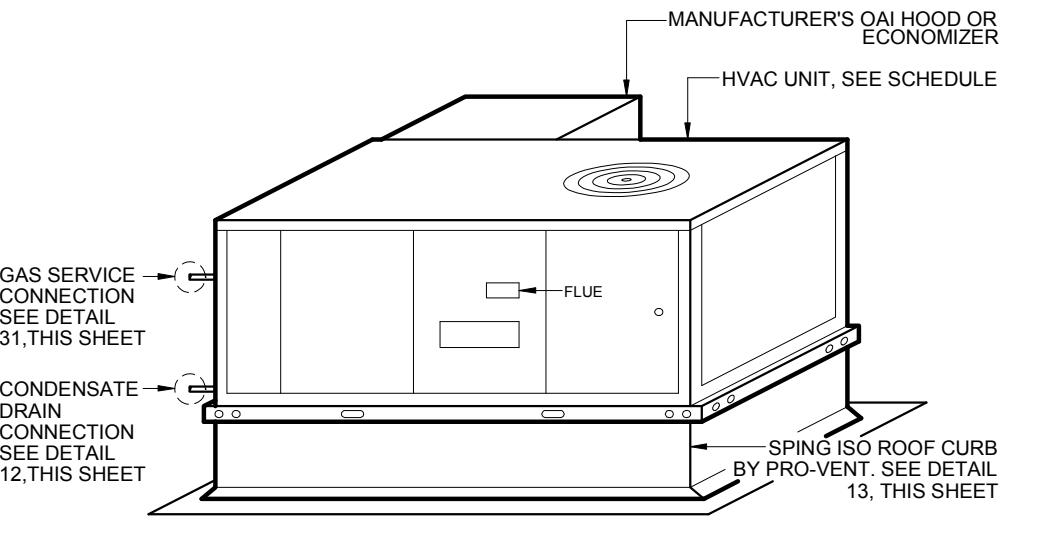
24 **SLEEPER (30\"/>**



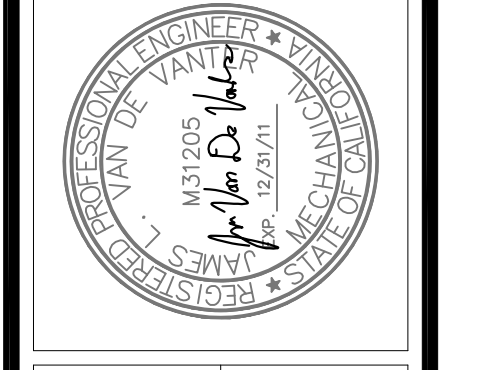
13 **TYPICAL SPRING ISO. ROOF CURB**
NO SCALE

GENERAL CONTRACTOR IS RESPONSIBLE FOR NECESSARY LEVELING, HOLE CUTTING, BLOCKING & FRAMING TO ACCOMMODATE MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING & FASTENING EQUIPMENT TO THE STRUCTURE.

*ALL DUCT CONNECTIONS TO UNIT SHALL BE MADE WITH FLEX CONNECTORS
*PROVIDE FILTER(S) IN UNIT PER MANUFACTURE'S RECOMMENDATIONS



14 **ROOF MOUNTED HVAC UNIT**
NO SCALE



PROJECT TITLE:
SHAFTER/WASCO SUPERIOR COURT
325 CENTRAL VALLEY HIGHWAY
SHAFTER, CA

CLIENT:
FRASER SEIBLE ARCHITECTS
677 S. G STREET
SAN LUIS OBISPO, CA
(805) 544-6161

SHEET TITLE AND DESCRIPTION:
DETAILS

DATE	REMARKS
09.10.10	100% SUBMITTAL
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11.16.10	RE-SUBMITTAL
12.21.10	RE-SUBMITTAL
05.05.11	RE-SUBMITTAL
08.15.11	FOR CONSTRUCTION

PLOT DATE:
8/29/2011 2:25 PM

DRAWN BY:
TDR

JVA JOB #
M10044

SHEET
DETAILS
MP3.1

PROJECT

COUNTY OF KERN

SHAFTER - WASCO SUPERIOR COURT

325 Central Valley Hwy
SHAFTER, CALIFORNIA

CLIENT JOB # ARCHITECT JOB #
1003

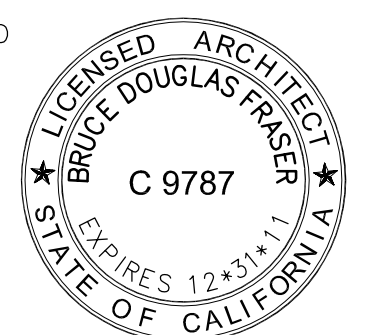


PROJECT MANAGER BDF

DRAWN BY BS

DATES 07-07-10
09-10-10
10-18-10 PLAN CHECK 1
11-23-10 PLAN CHECK 2
12-30-10 PLAN CHECK 3
08-15-11 FOR CONSTRUCTION

SIGNED



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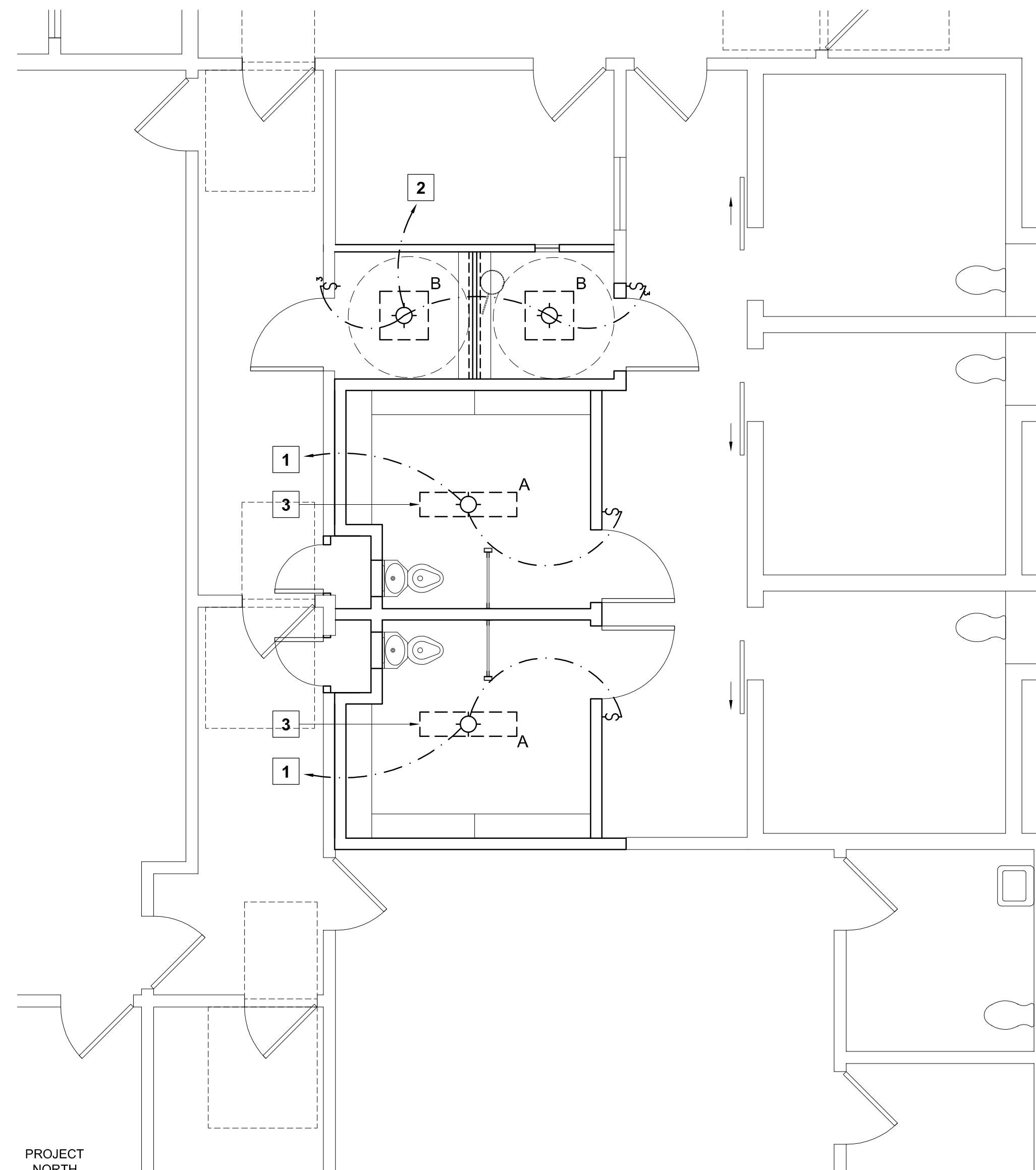
Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and existing conditions on the job and shall report any discrepancies to the architect for resolution prior to commencing work.

SHEET TITLE

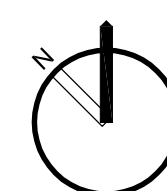
LIGHTING PLAN,
POWER / SIGNAL PLAN

SHEET #

E.1



PROJECT NORTH



LIGHTING PLAN

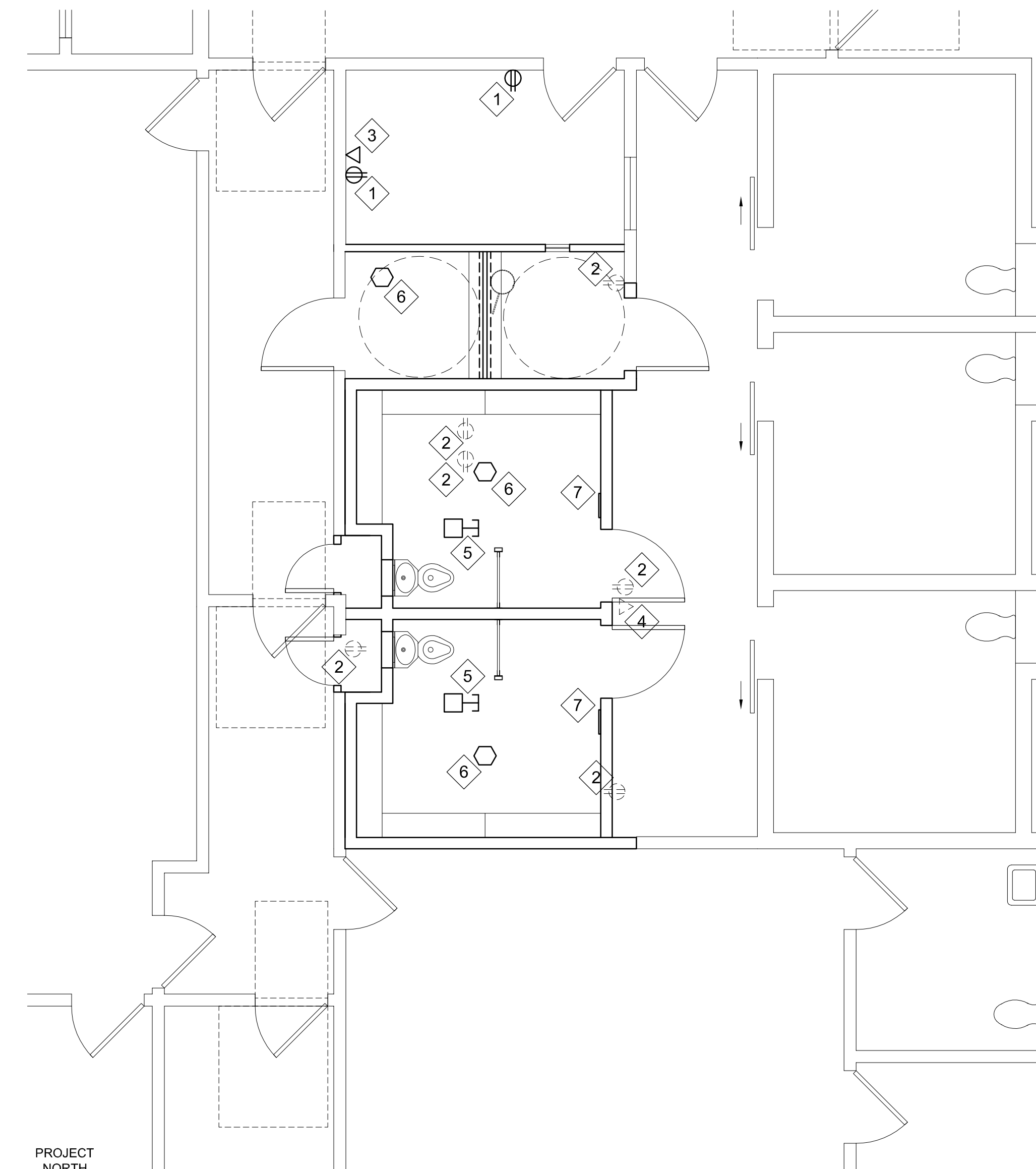
SCALE : 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

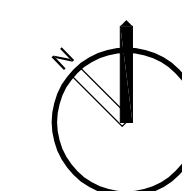
TYPE	MFGR	CATALOG NO.	LAMP(S)	REMARKS
A	KENALL	SDSAT5	2 - 28W T5 fluor.	"Mighty Mac" ceiling surface linear correctional fixture, 16 GA housing, white finish, prismatic polycarbonate lens, Torx fasteners
B	LSI	60F2	2 - 40W biax. fluor.	Recessed security fixture, white trim, clear polycarbonate lens, Torx fasteners

LIGHTING KEYNOTES

- POWER FROM EXISTING CEILING LIGHTING CIRCUIT(S).
- POWER FROM NEW SPARE CIRCUIT ON PANEL.
- SEE DETAIL 54, SHEET A.4, FOR MOUNTING AND FIRESTOPPING.



PROJECT NORTH



POWER / SIGNAL PLAN

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

POWER, SIGNAL KEYNOTES

- EXISTING WALL POWER OUTLET TO REMAIN.
- EXISTING WALL POWER OUTLET, BOX, AND CONDUIT TO BE REMOVED.
- EXISTING WALL COMMUNICATIONS OUTLET TO REMAIN.
- EXISTING WALL COMMUNICATIONS OUTLET, BOX, CONDUIT TO BE REMOVED.
- NEW DUCT SMOKE DETECTOR, WIRED TO RELOCATED FIRE ALARM PANEL.
- NEW BOX AND MOUNTING PLATE FOR CCTV VIDEO CAMERA; PROVIDE CONDUIT AS REQUIRED FOR SYSTEM VENDOR TO CONNECT TO MONITORING STATION.
- AUDIO MONITORING MICROPHONE, RECESSED WALL-MOUNTED AT +90"; PROVIDE CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED TO MONITORING STATION.