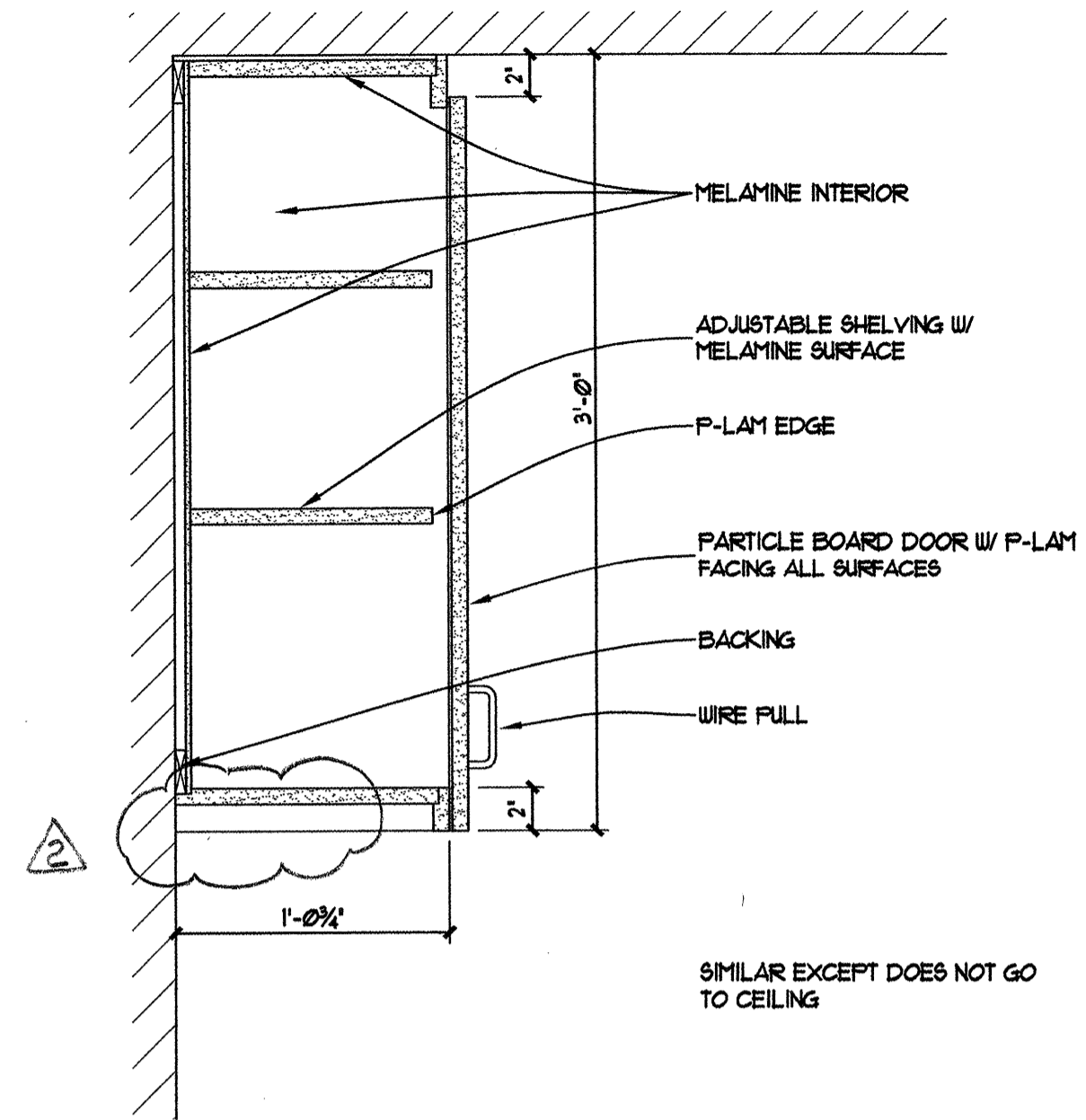
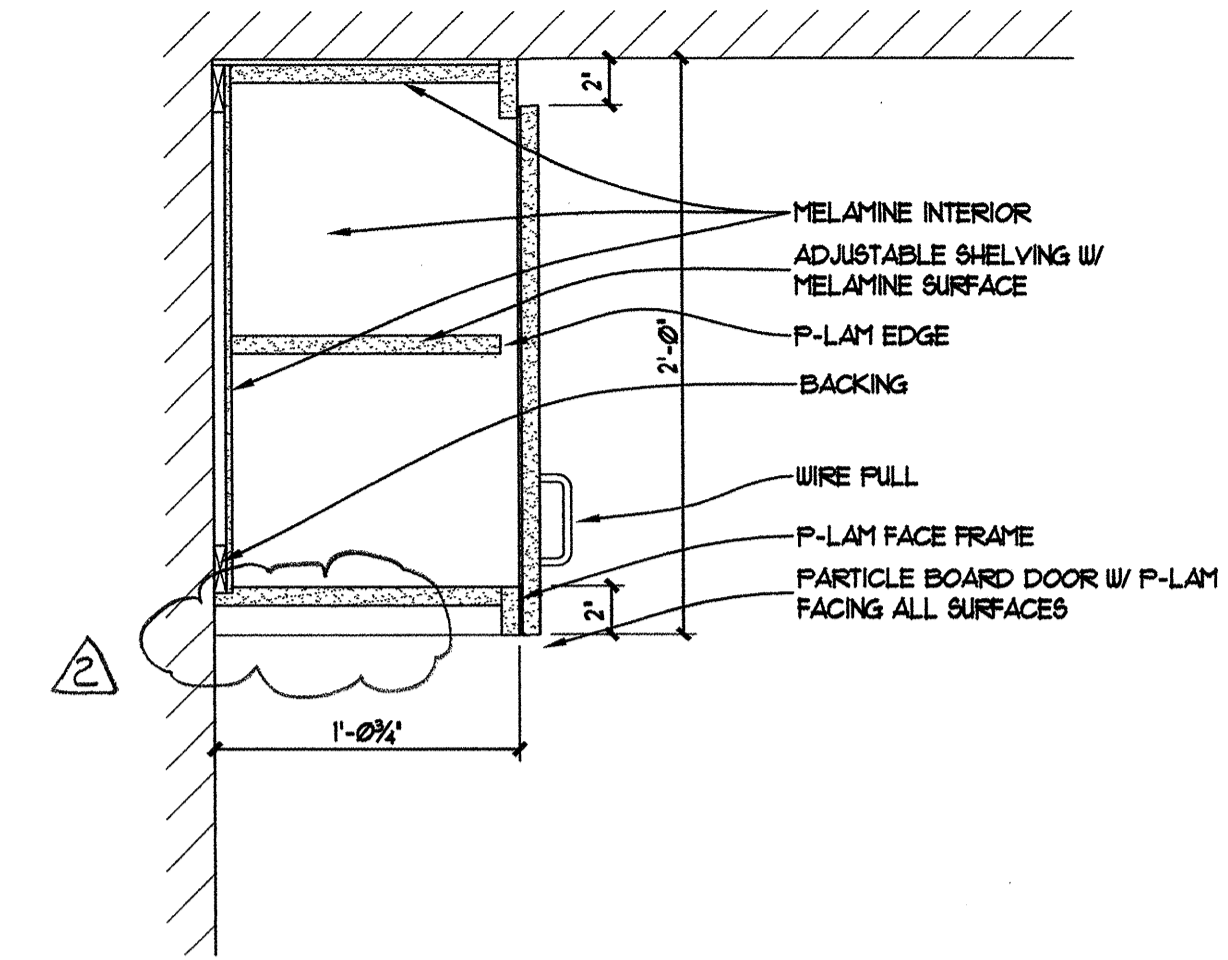


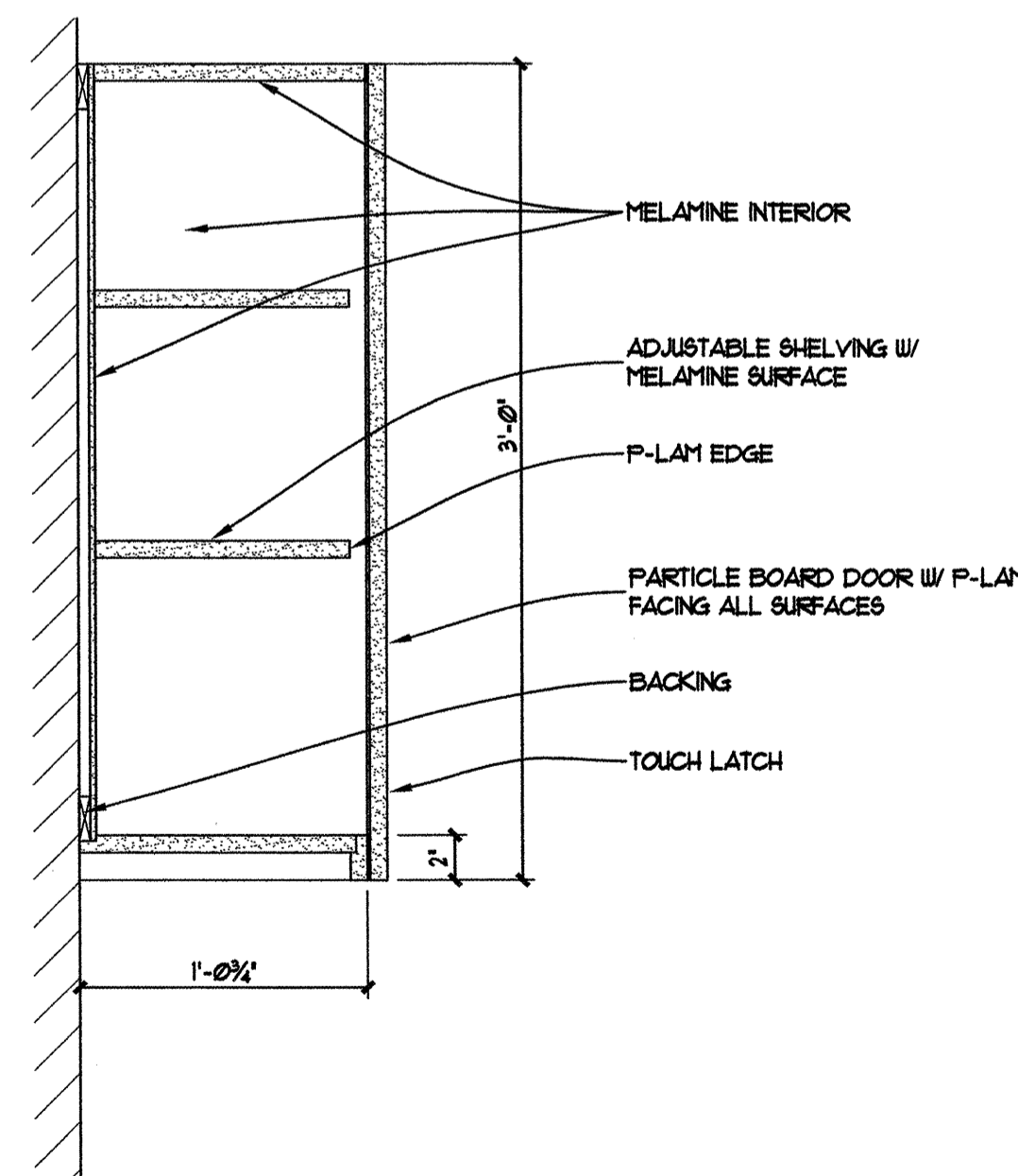
C1 40" UPPER CABINET W/ OPEN SHELVES
A1B 1 1/2" = 1'-0"



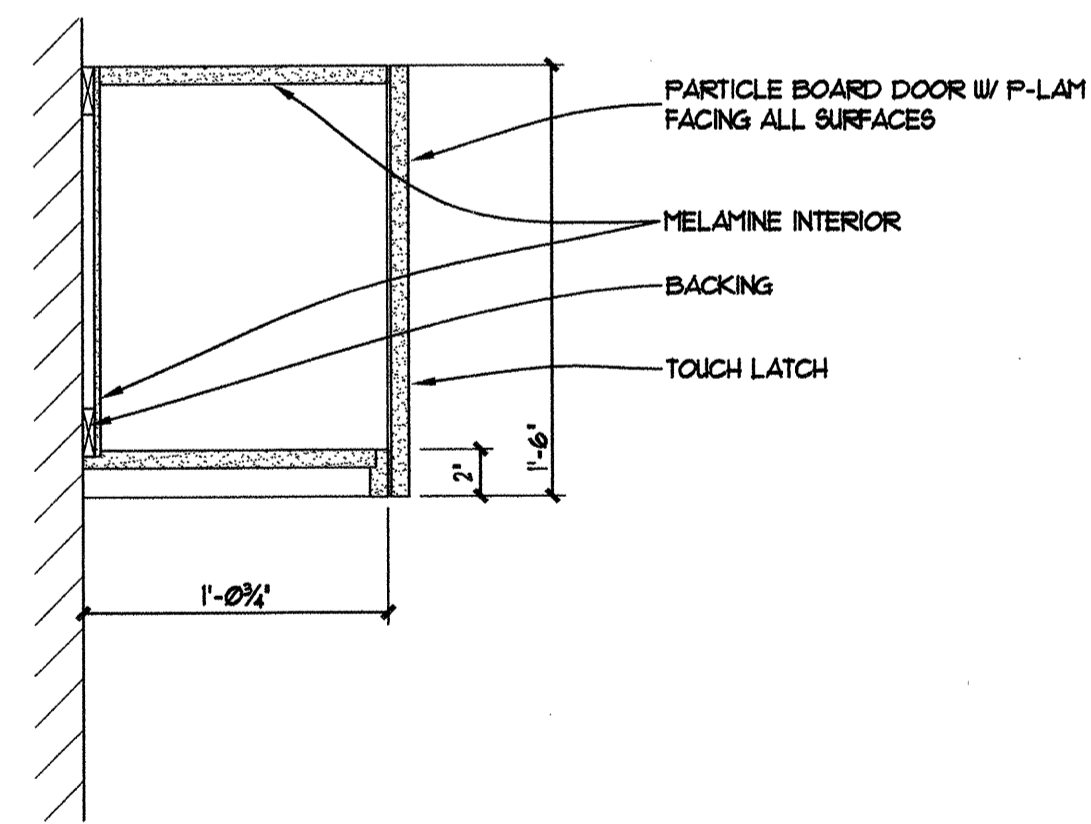
C2 36" UPPER CABINET
A1B 1 1/2" = 1'-0"



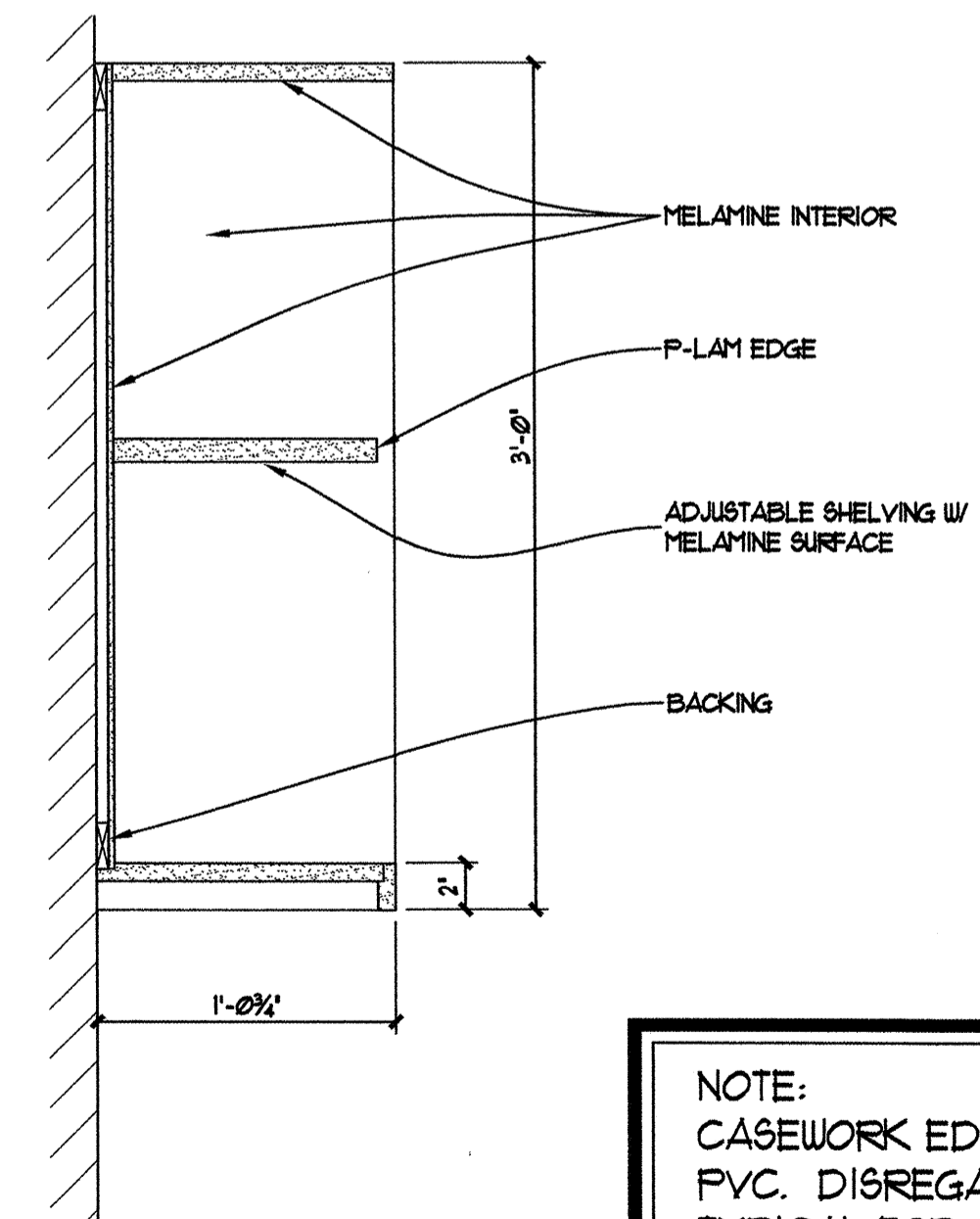
C3 24" UPPER CABINET
A1B 1 1/2" = 1'-0"



A1 UPPER CABINET
A1B 1 1/2" = 1'-0"

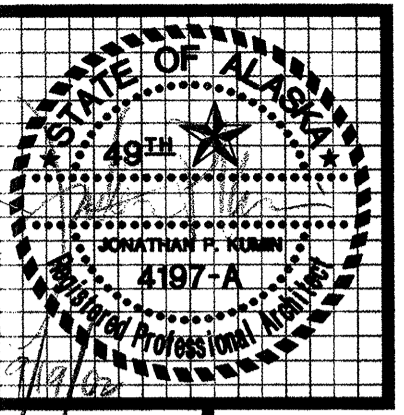


A2 UPPER CABINET
A1B 1 1/2" = 1'-0"



A3 UPPER CABINET
A1B 1 1/2" = 1'-0"

NOTE:
CASEWORK EDGE BANDING SHALL BE 3 MIL.
PVC. DISREGARD P.LAM. EDGE BANDING.
TYPICAL FOR ALL BASE AND WALL
CABINETS.



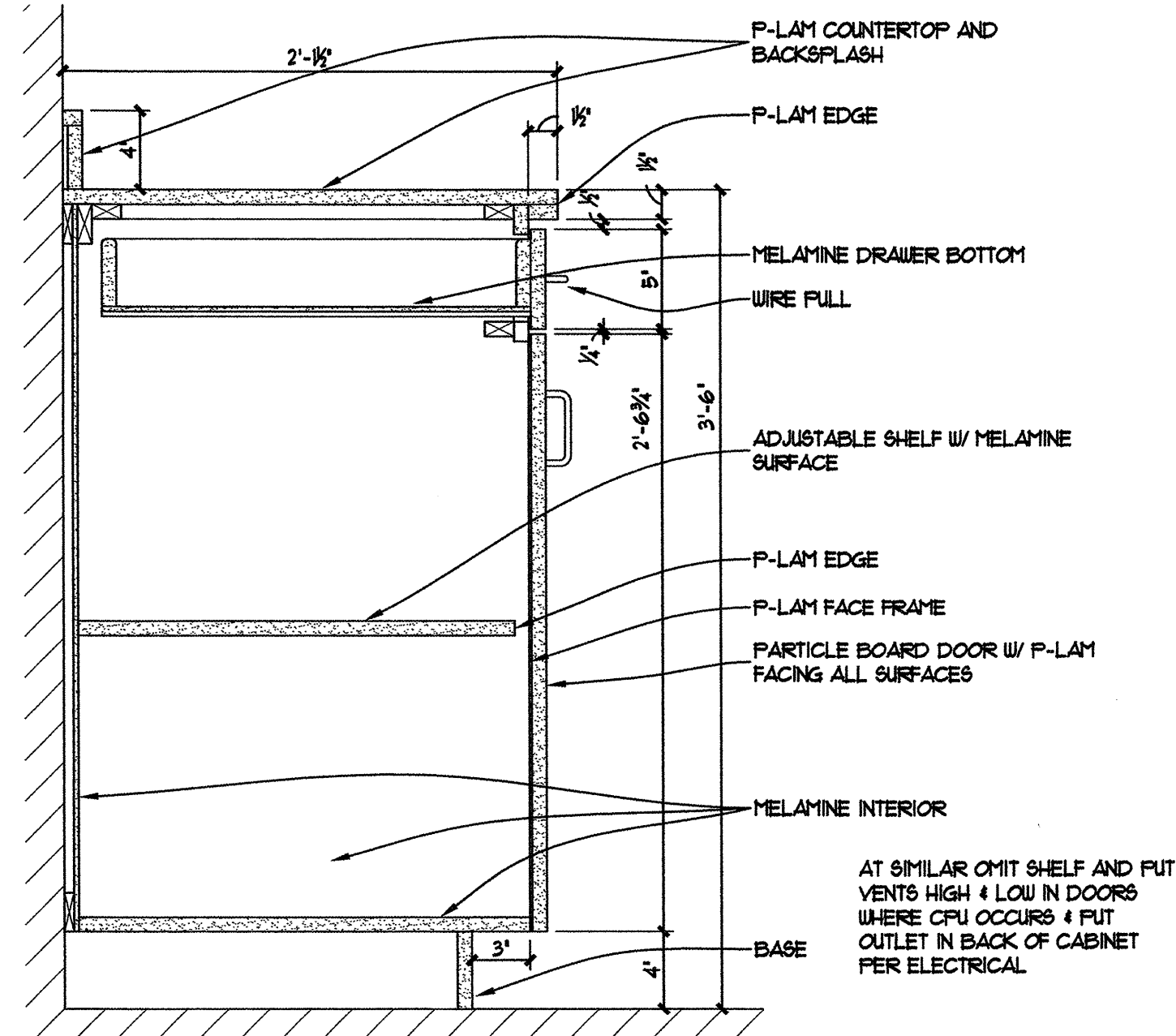
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revisions	
△	8-26-02 95%
△	9-17-02 100%
job no.	20152
dwg. title	BASE CABINET DETAILS
sheet no.	A7.8

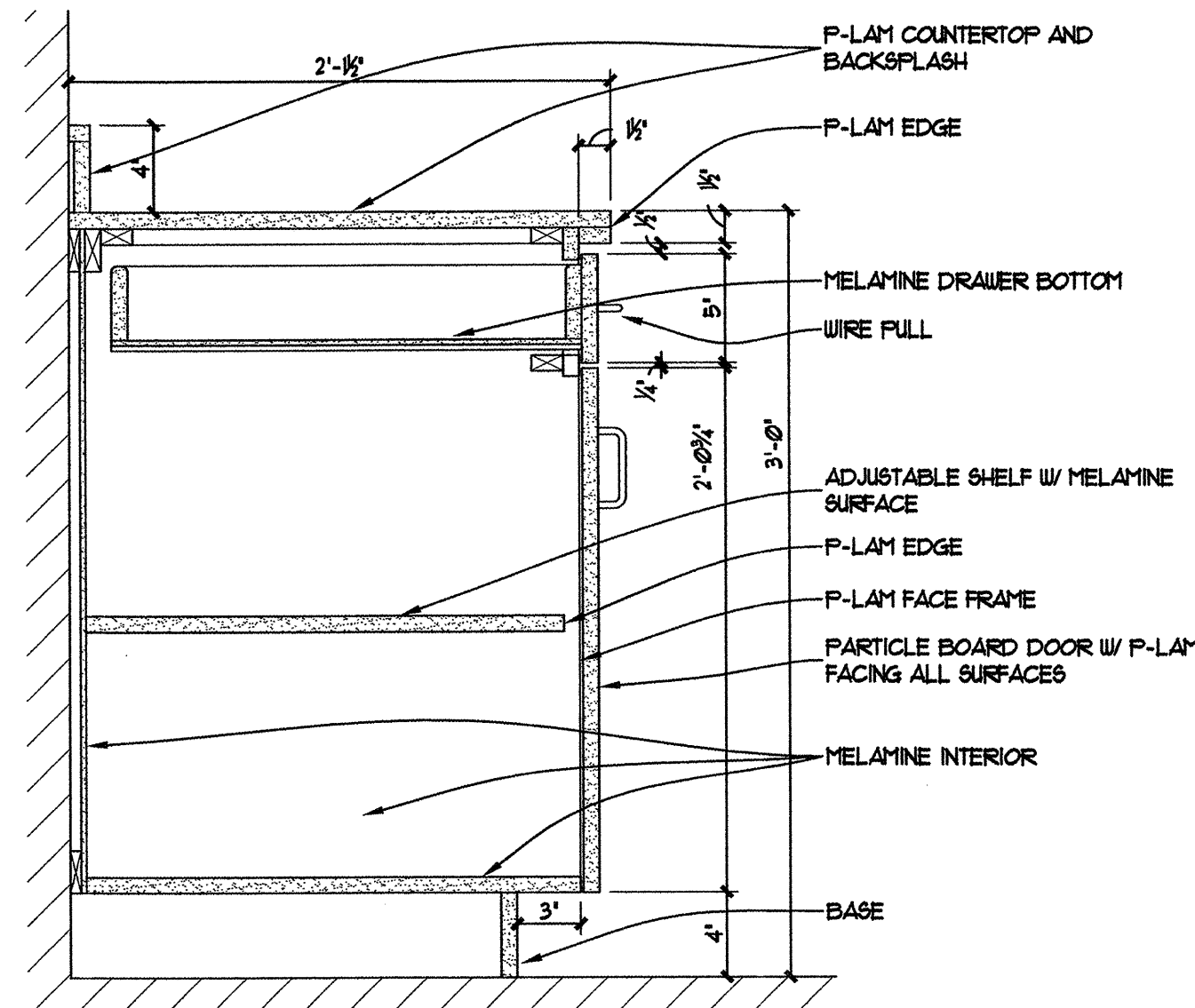
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C1 42" BASE CABINET

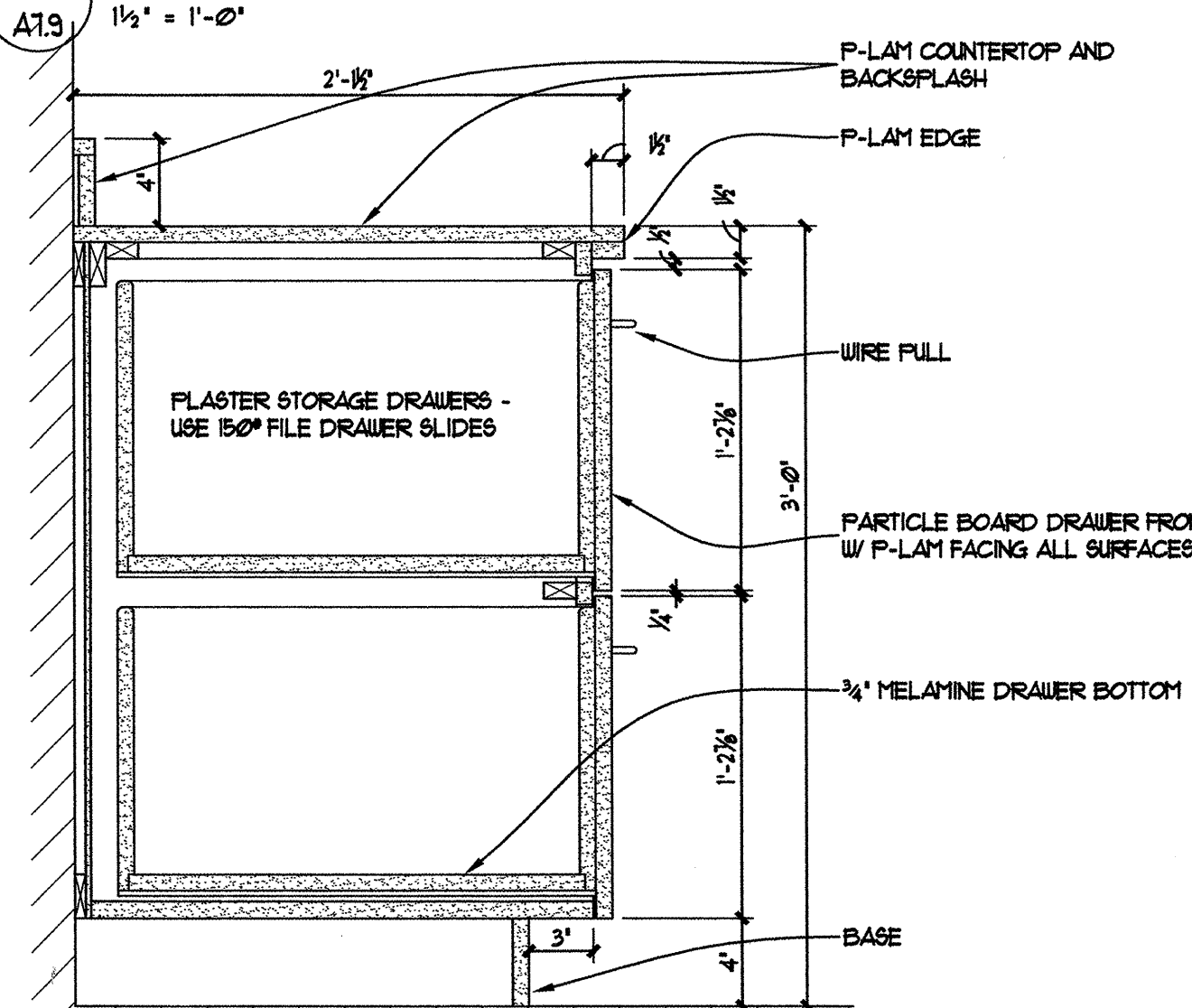
A1.9 1 1/2" = 1'-0"

AT SIMILAR CMT SHELF AND PUT VENTS HIGH & LOW IN DOORS WHERE CPU OCCURS & PUT OUTLET IN BACK OF CABINET PER ELECTRICAL



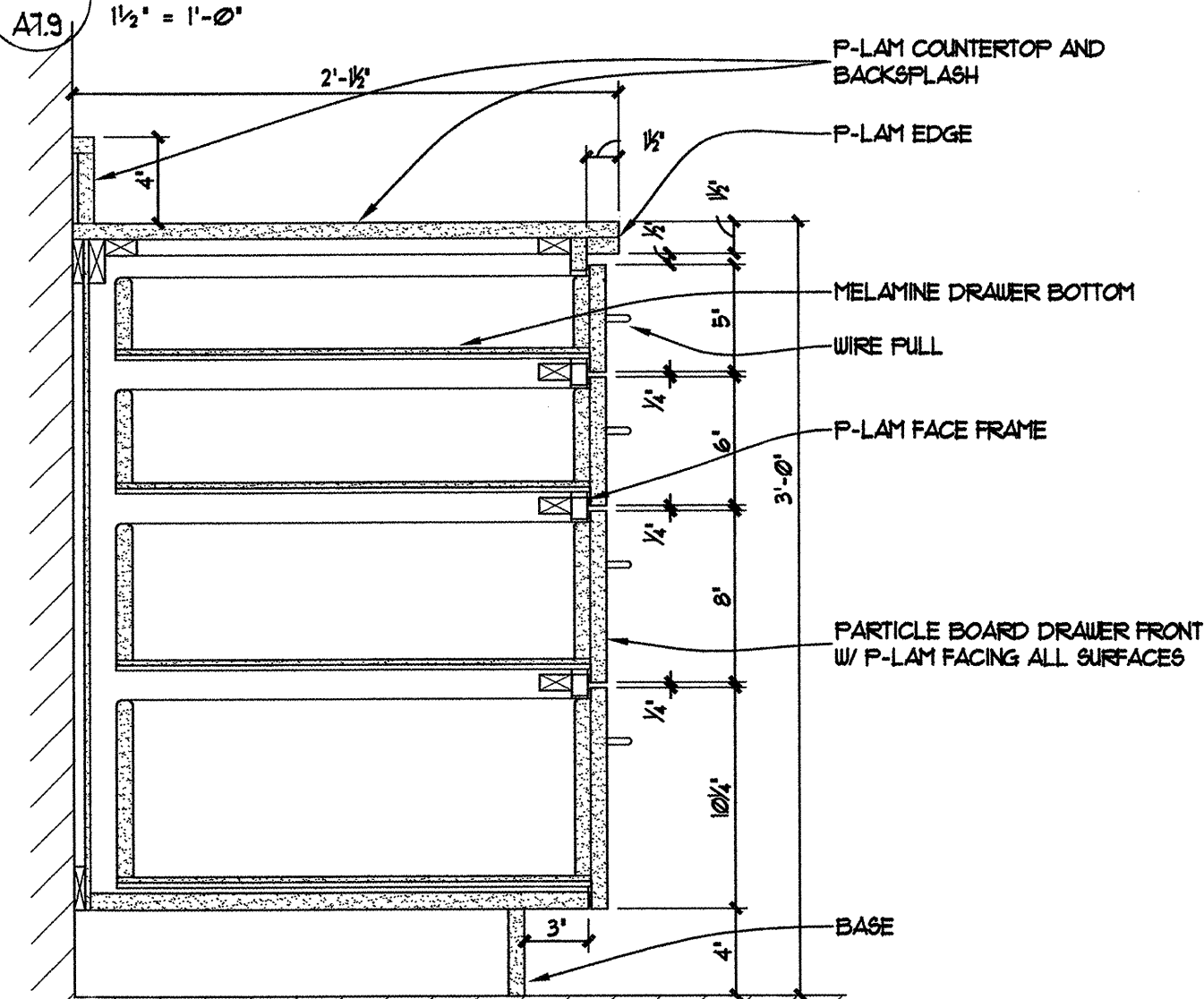
C2 36" BASE CABINET

A1.9 1 1/2" = 1'-0"



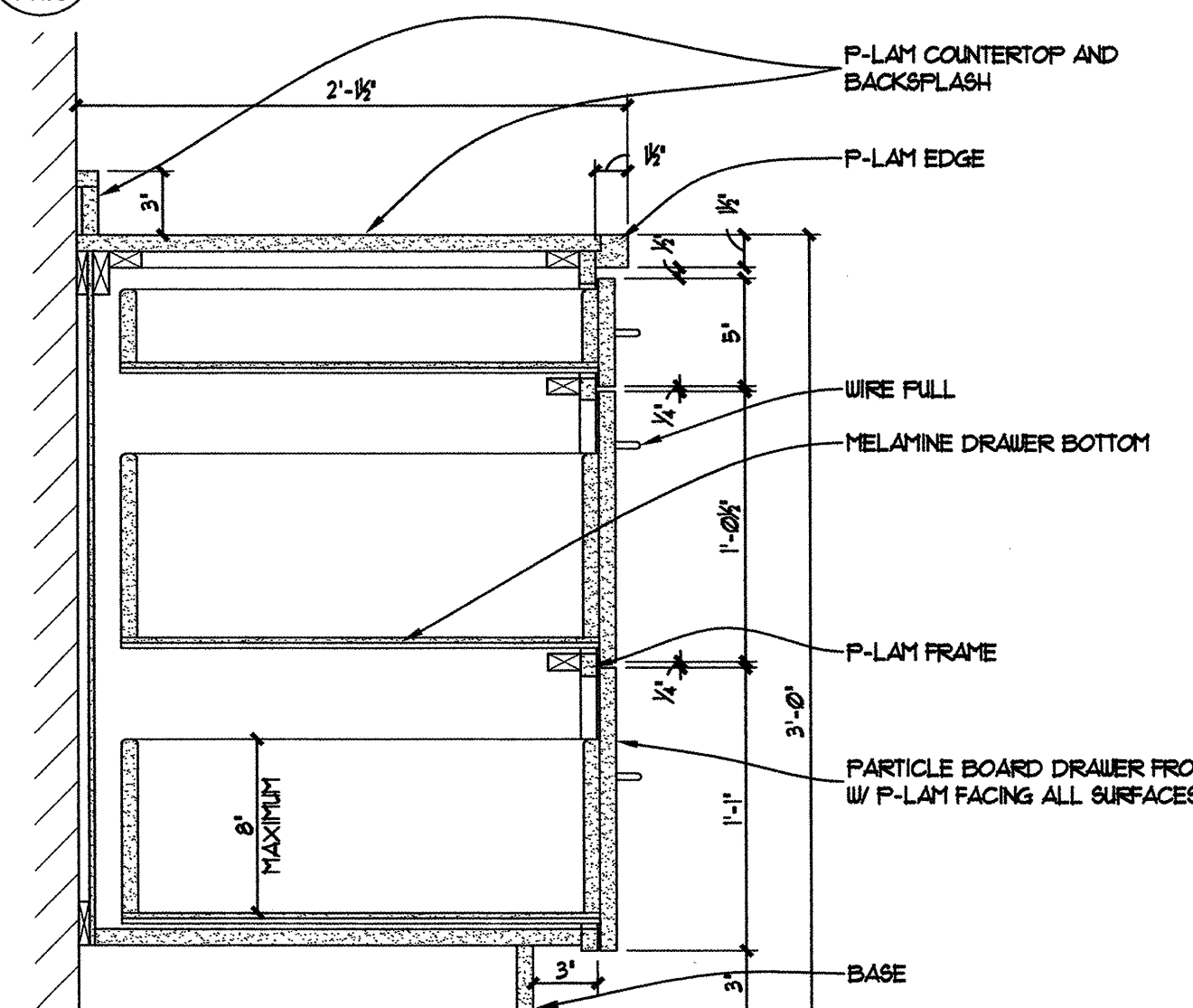
B1 36" BASE CABINET W/ 2 DRAWERS

A1.9 1 1/2" = 1'-0"



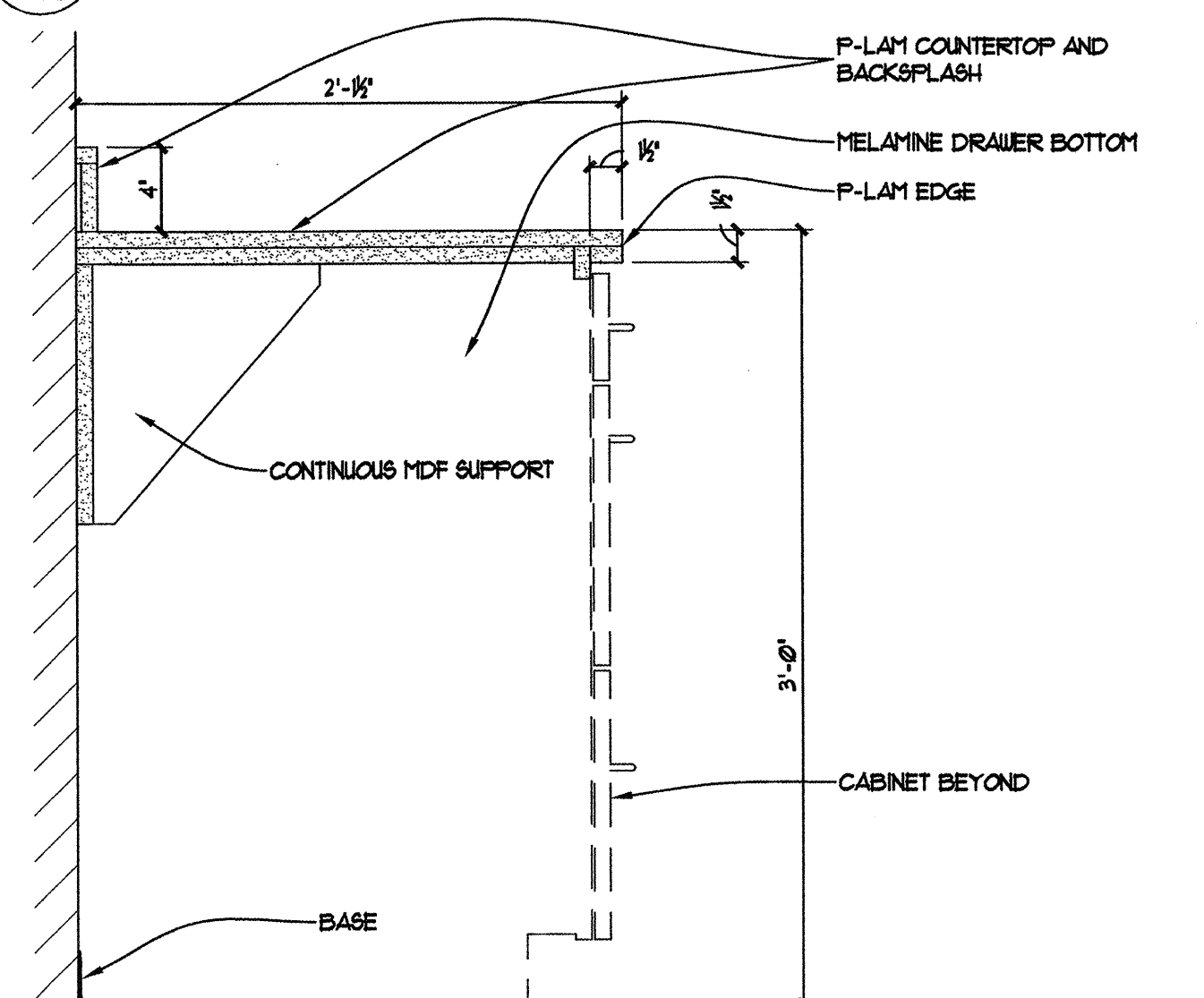
B2 36" BASE CABINET W/ 4 DRAWERS

A1.9 1 1/2" = 1'-0"



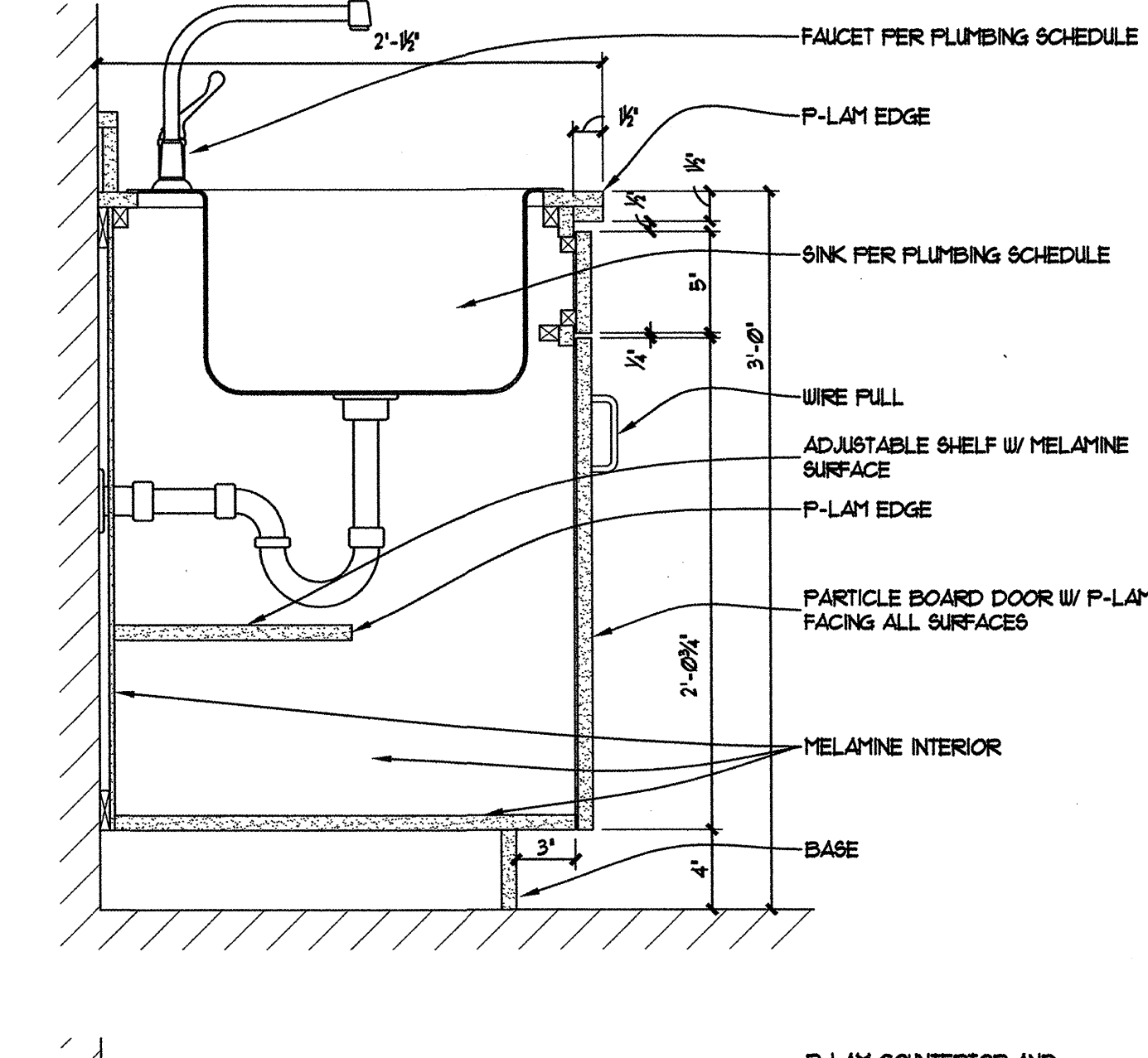
A1 36" BASE CABINET W/ 3 DRAWERS

A1.9 1 1/2" = 1'-0"



A2 36" BASE CABINET @ KNEESPACE (NO DRAWERS)

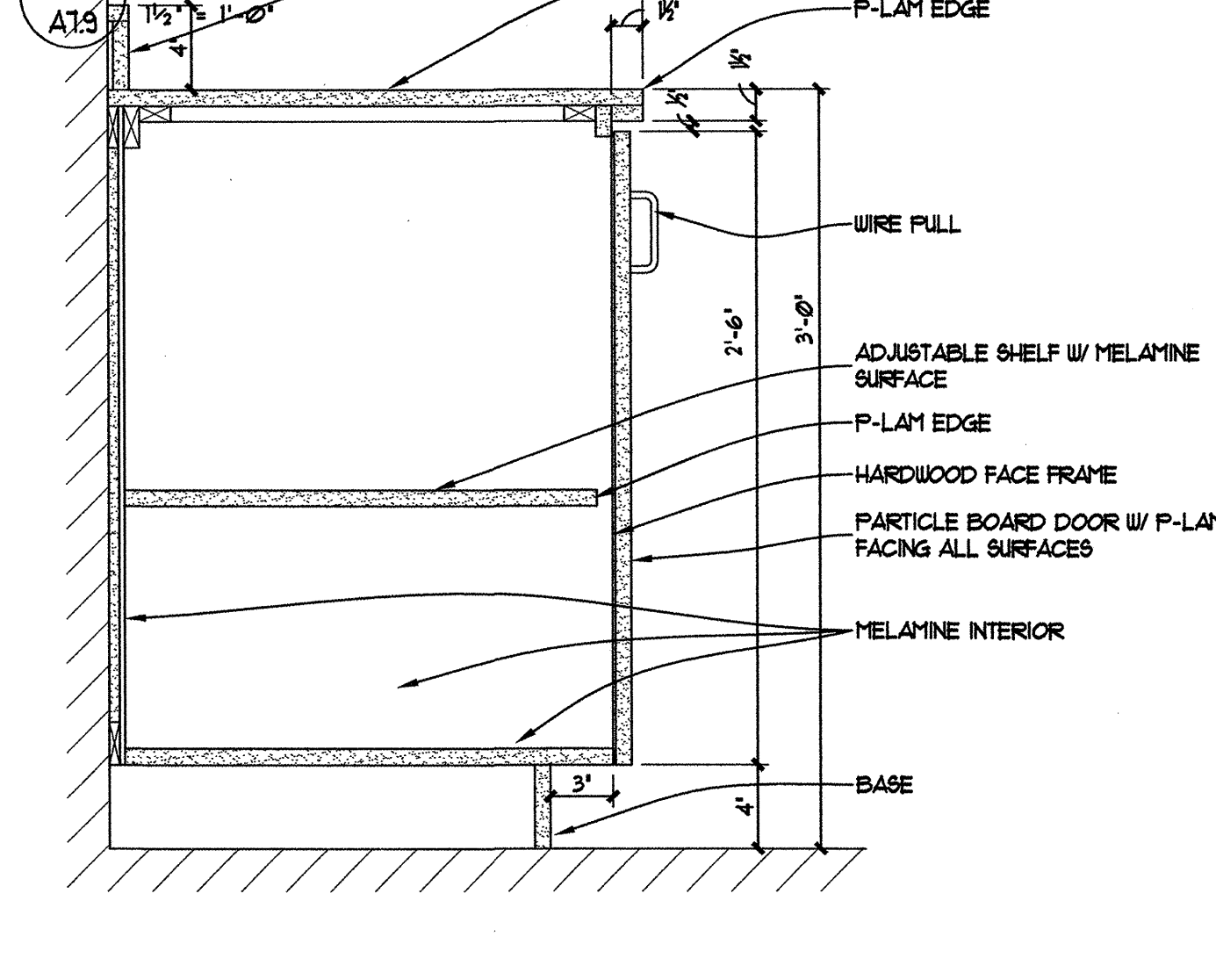
A1.9 1 1/2" = 1'-0"



C3 36" BASE CABINET W/ SINK

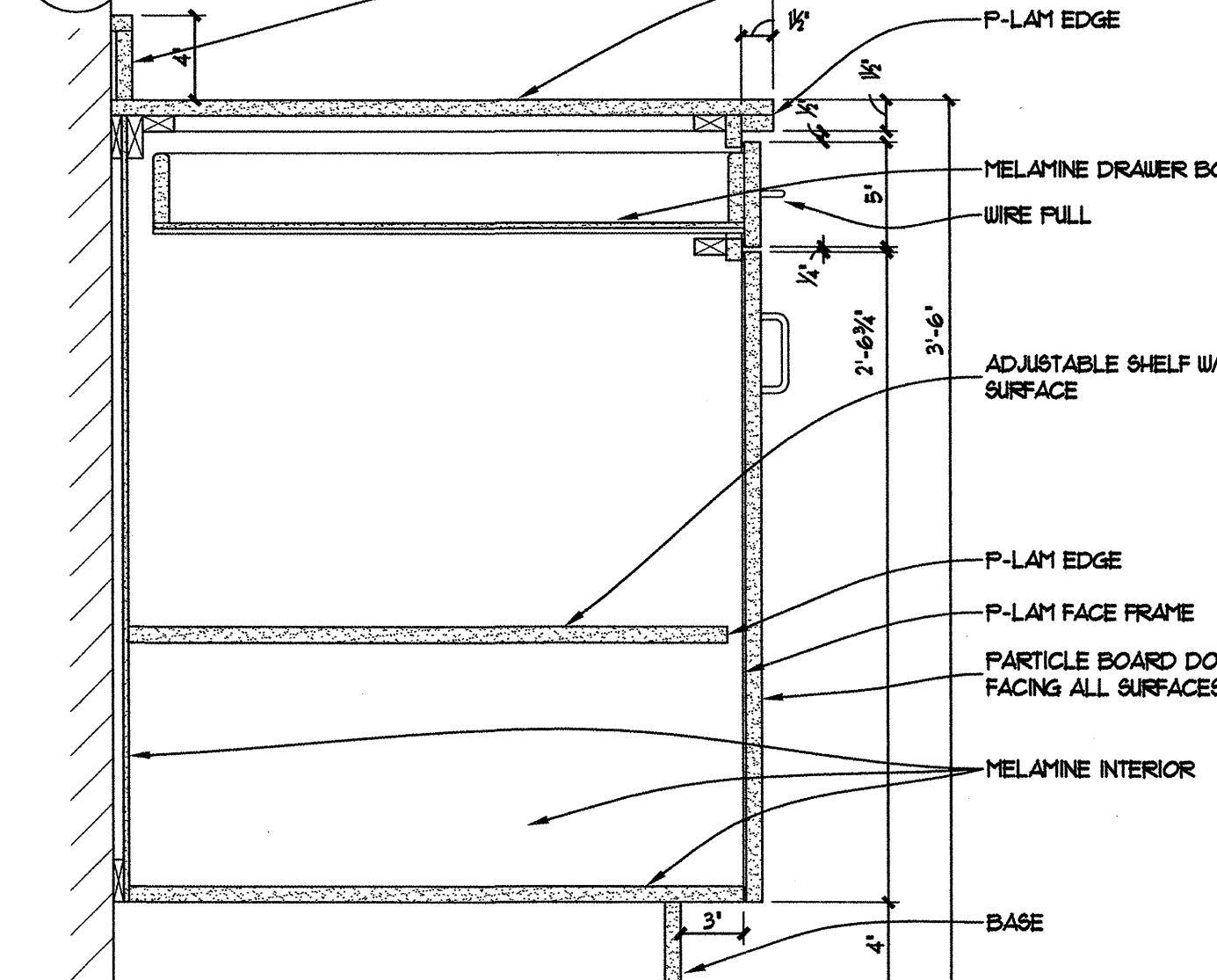
A1.9 1 1/2" = 1'-0"

NOTE: CASEWORK EDGE BANDING SHALL BE 3 MIL. PVC. DISREGARD PLM, EDGE BANDING TYPICAL FOR ALL BASE AND WALL CABINETS.



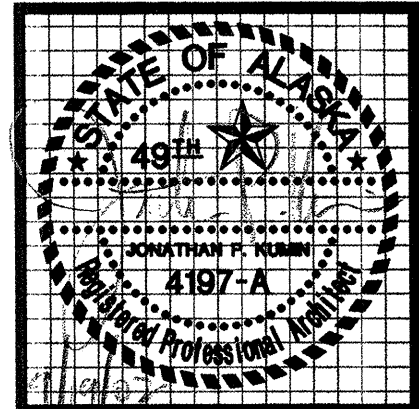
B3 36" BASE CABINET W/ NO DRAWERS

A1.9 1 1/2" = 1'-0"



A3 36" BASE CABINET (DEEP)

A1.9 1 1/2" = 1'-0"



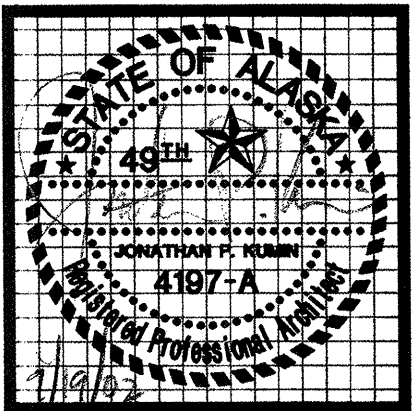
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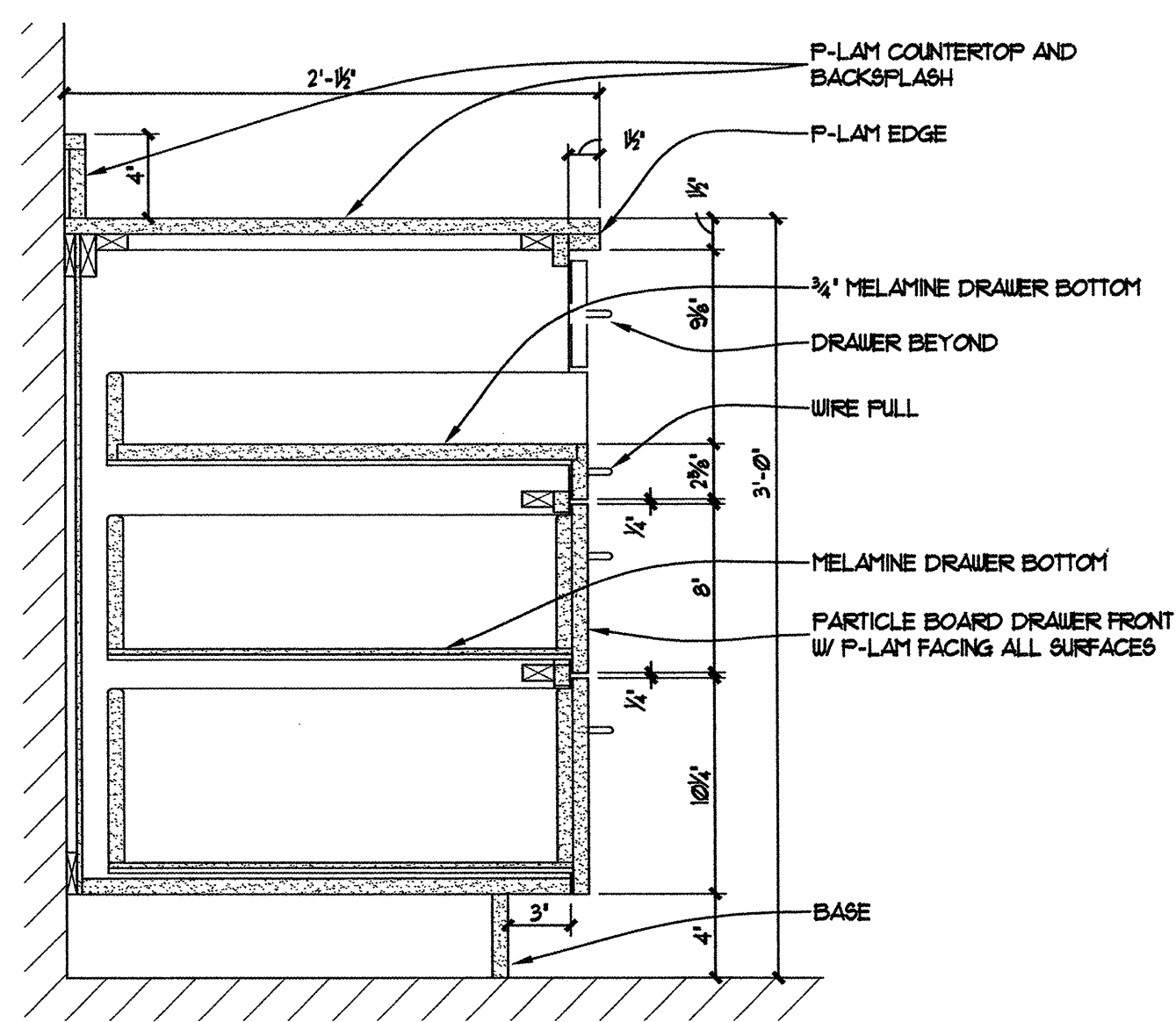
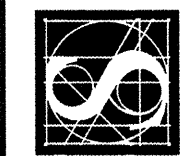
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revisions	1 X 8-26-02 95Z
job no.	20152
dwg. title	BASE CABINET DETAILS
sheet no.	A7.9

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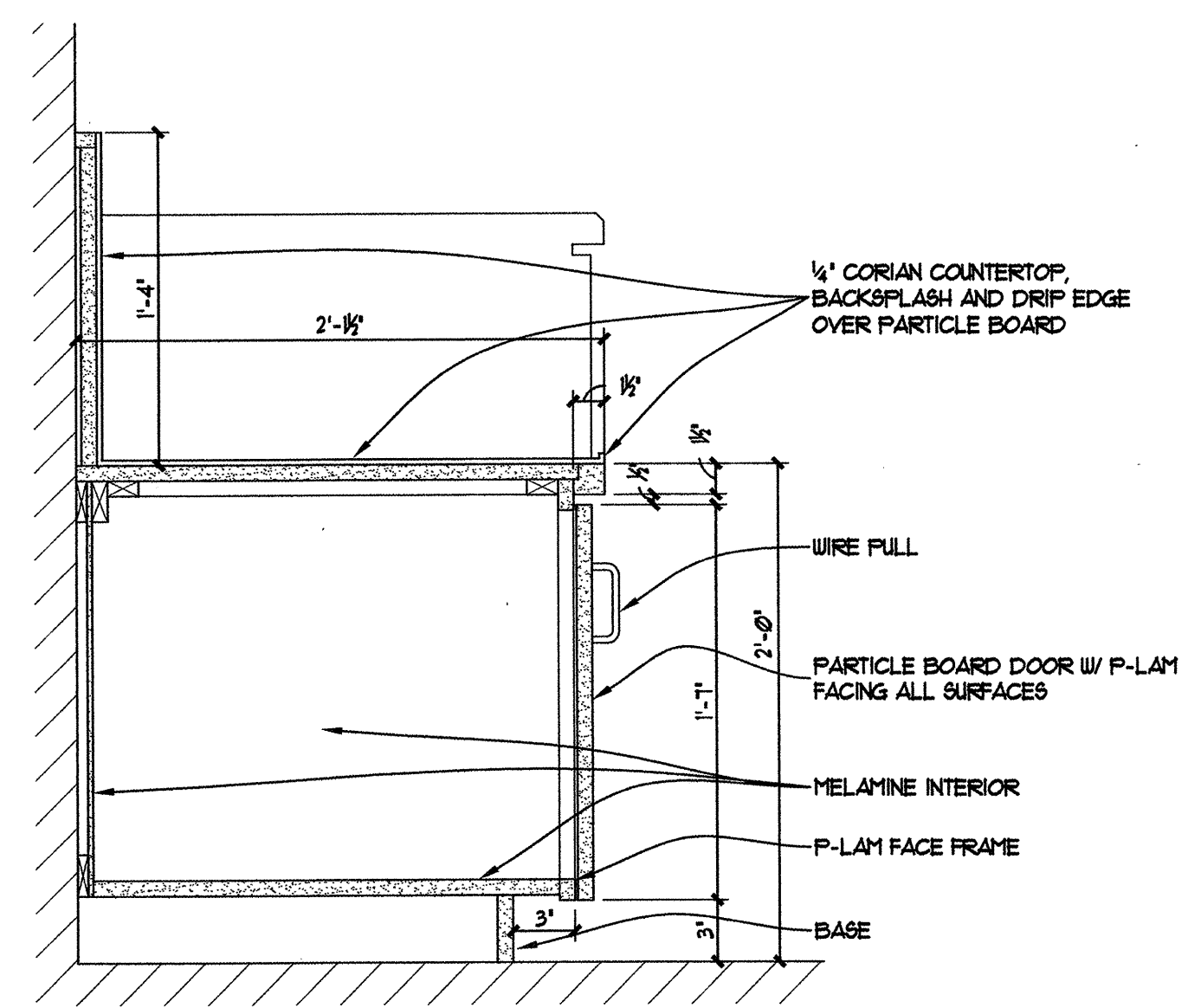


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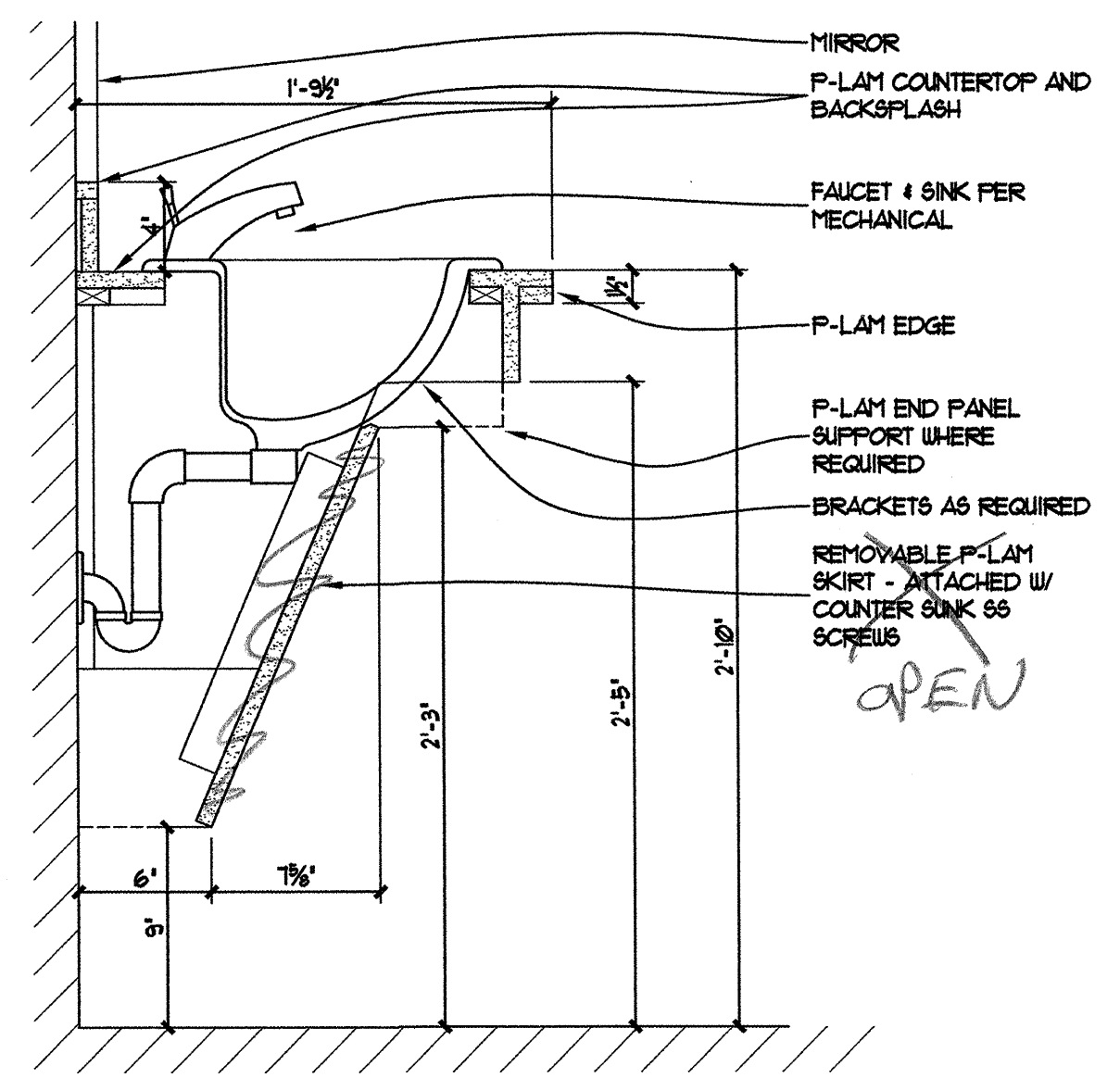
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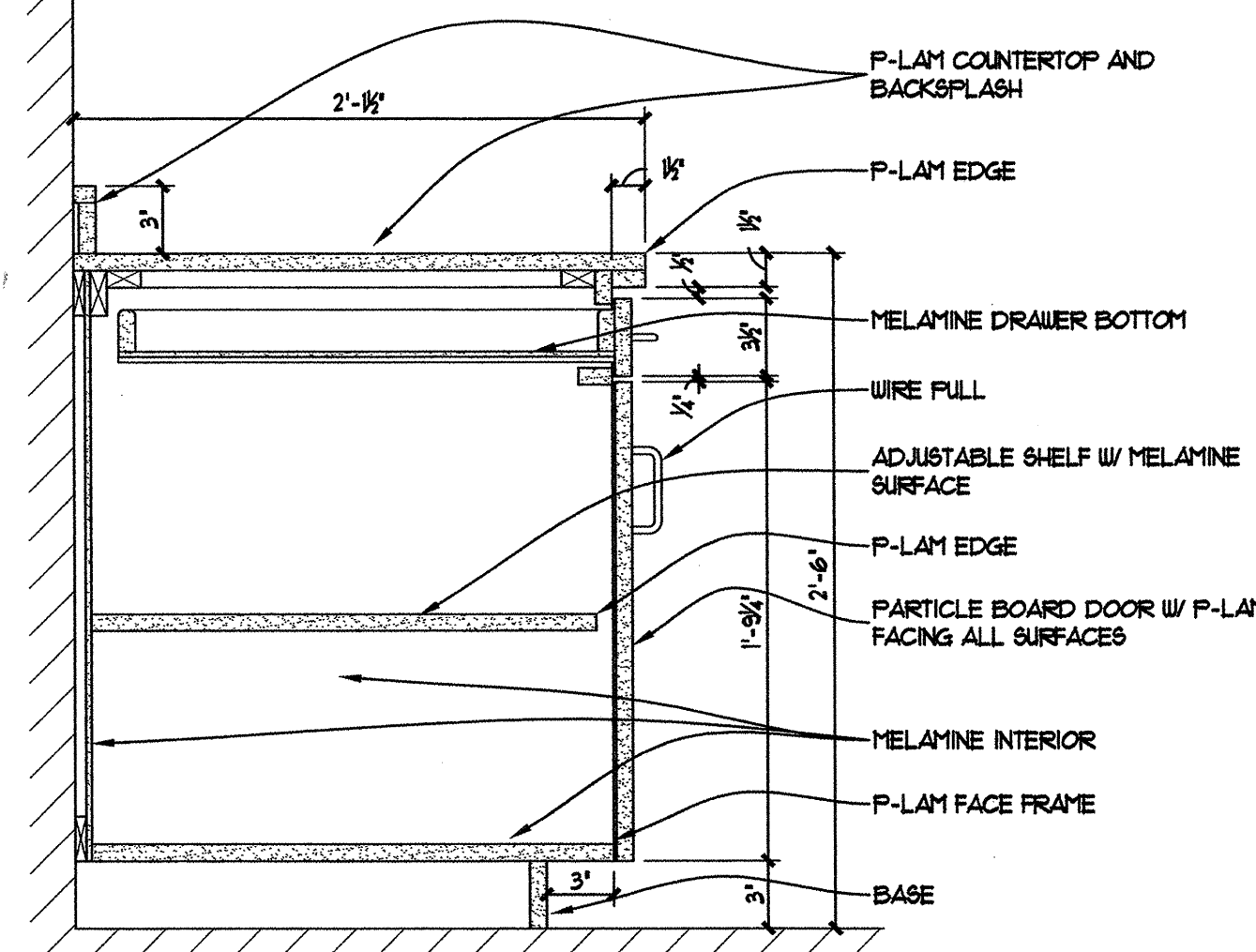
C1 42" BASE CABINET @ STATIM
 A110 1 1/2" = 1'-0"



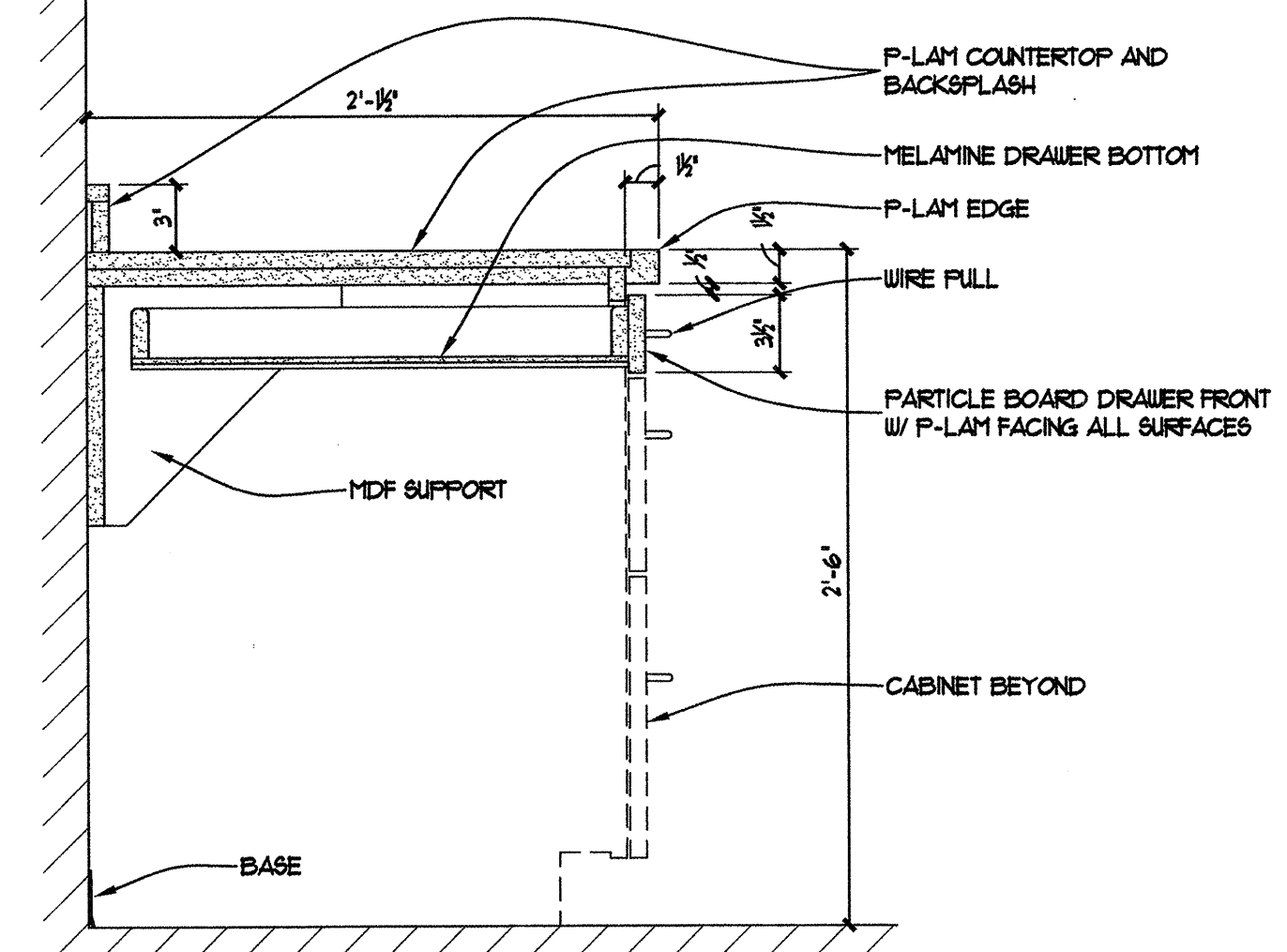
C2 36" BASE CABINET @ ULTRASONIC
 A110 1 1/2" = 1'-0"



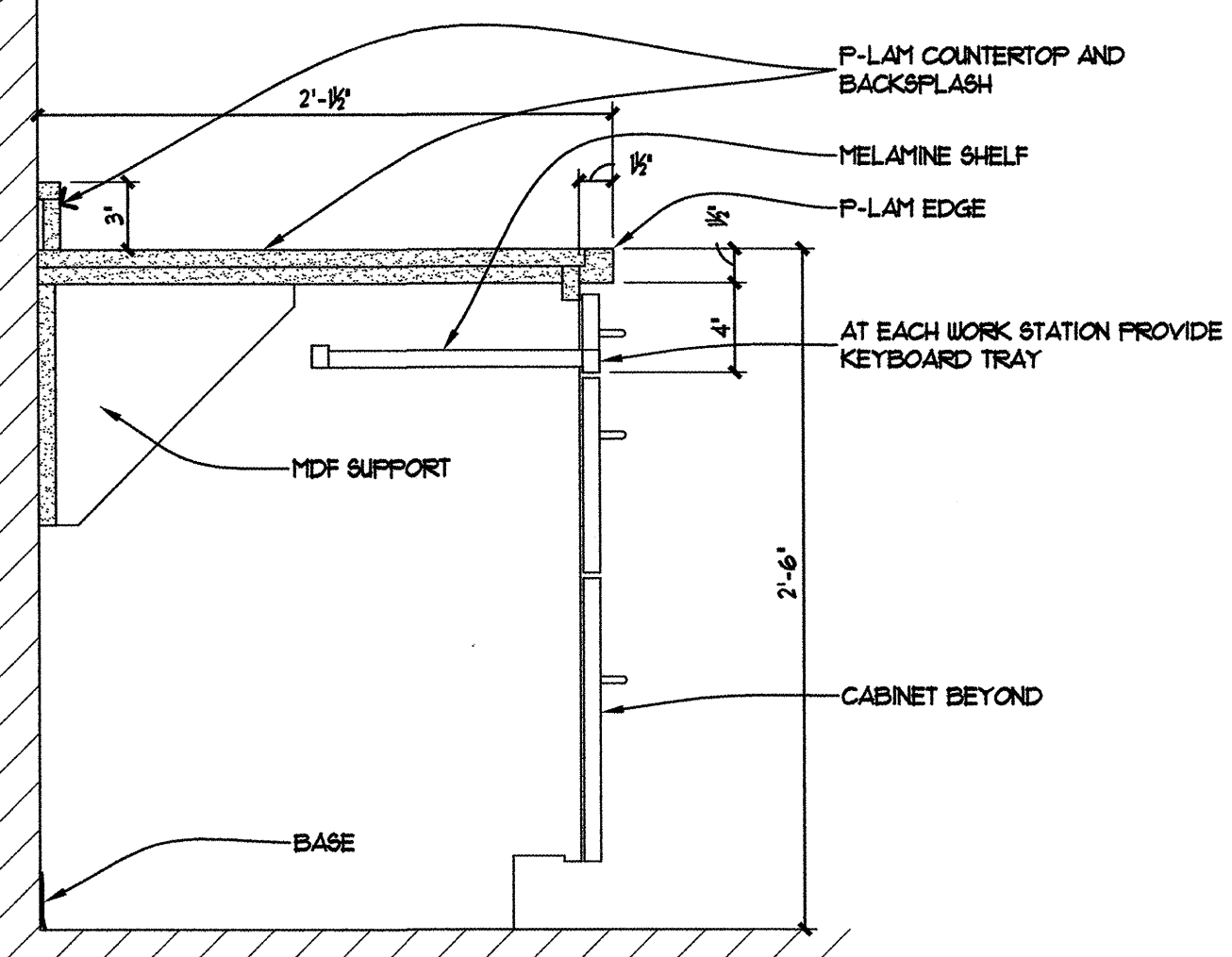
C3 34" VANITY SINK
 A110 1 1/2" = 1'-0"



B1 30" BASE CABINET
 A110 1 1/2" = 1'-0"

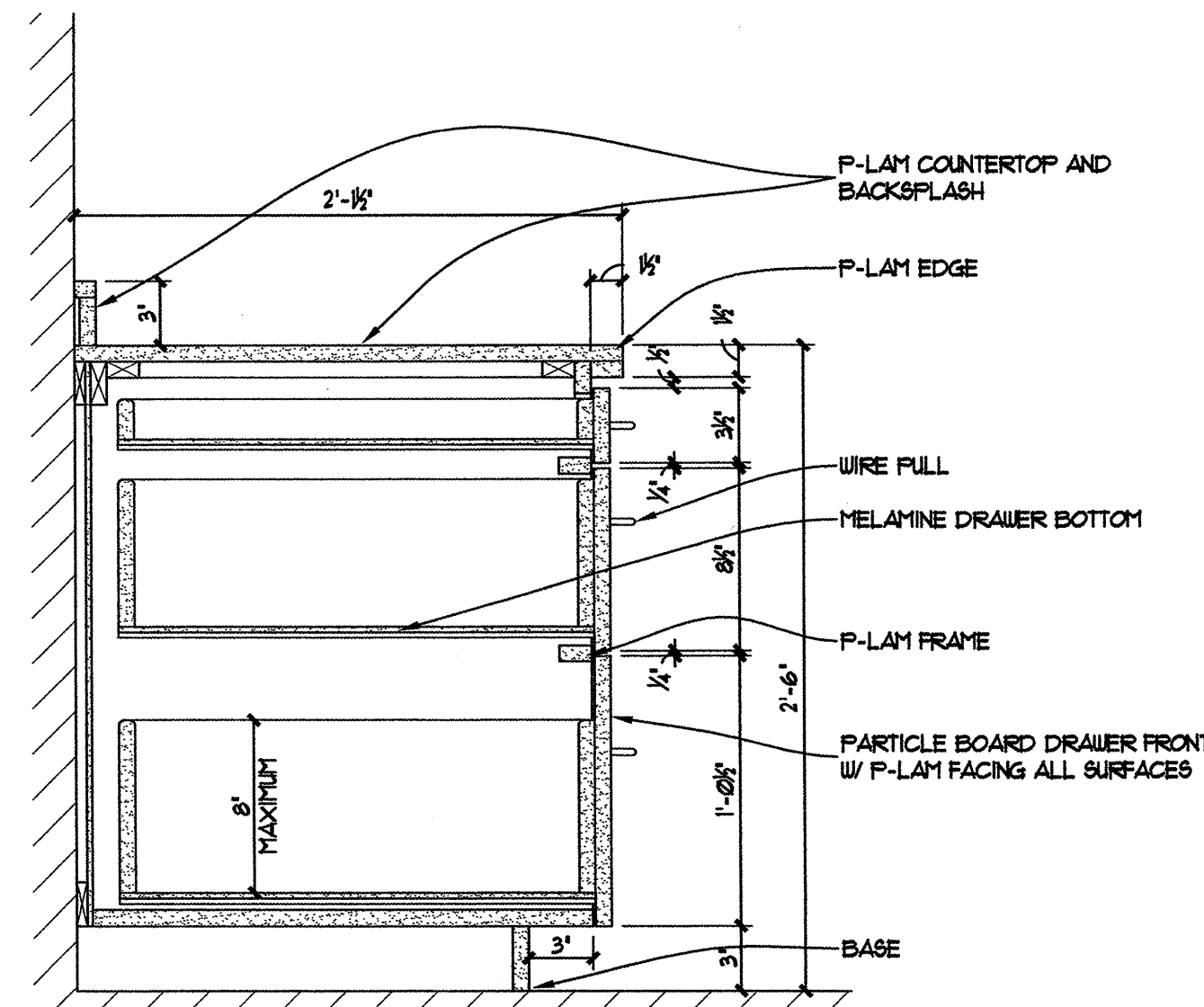


B2 30" BASE CABINET @ KNEESPACE
 A110 1 1/2" = 1'-0"

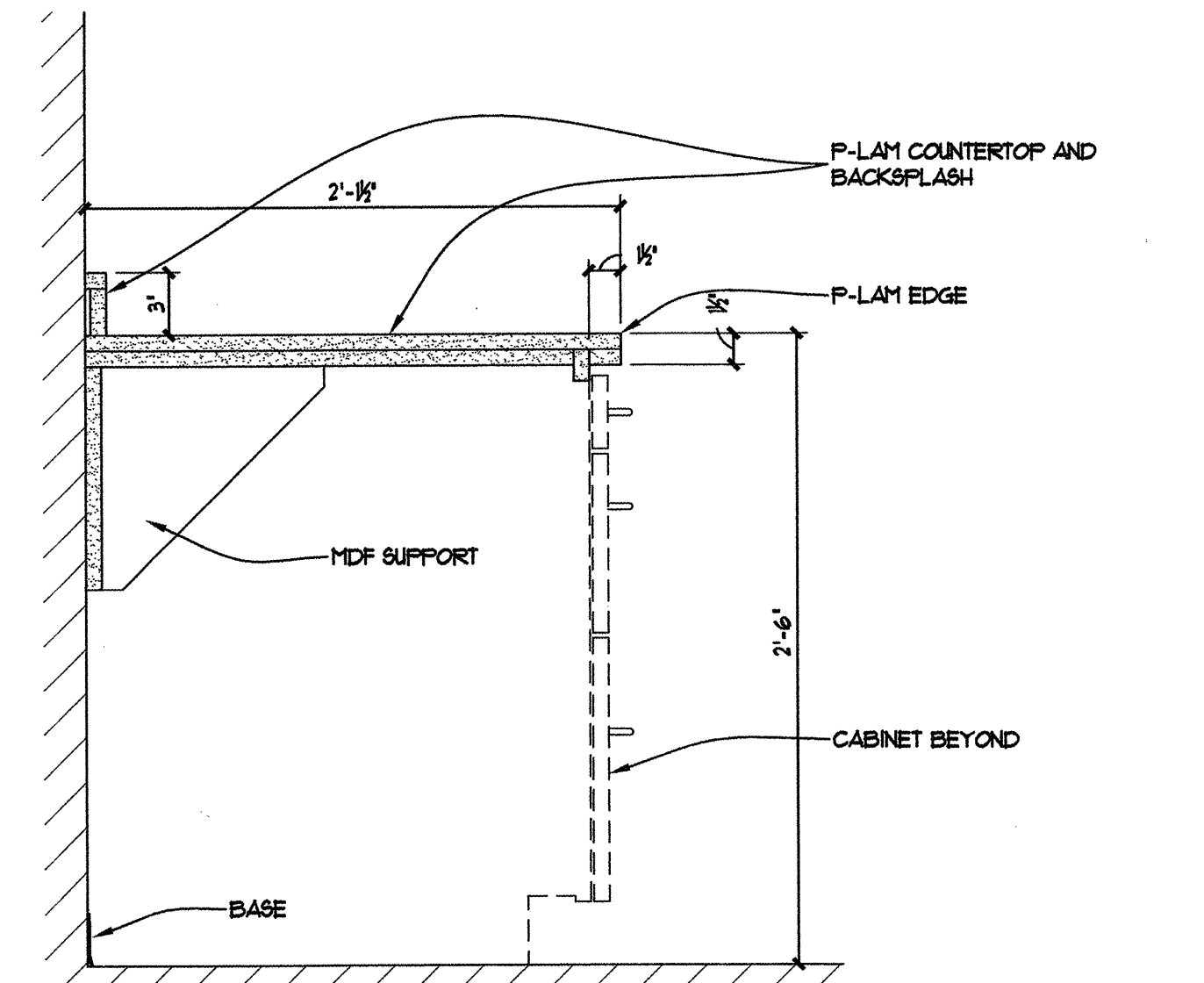


B3 30" BASE CABINET @ KEYBOARD PULLOUT
 A110 1 1/2" = 1'-0"

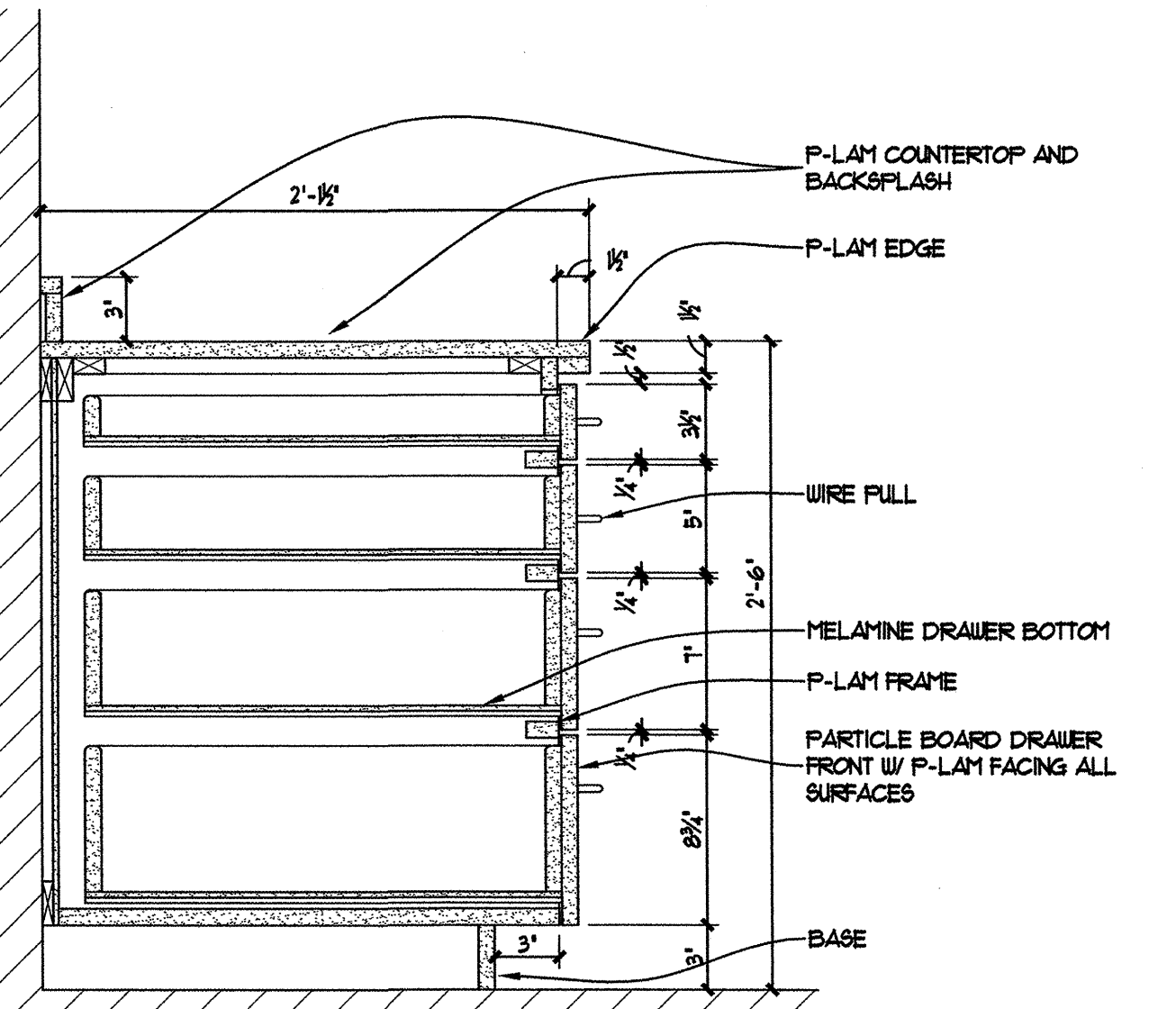
NOTE:
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 PVC. DISREGARD PLY. EDGE BANDING.
 TYPICAL FOR ALL BASE AND WALL
 CABINETS.



A1 30" BASE CABINET W/ 3 DRAWERS
 A110 1 1/2" = 1'-0"



A2 30" BASE CABINET @ KNEESPACE
 A110 1 1/2" = 1'-0"

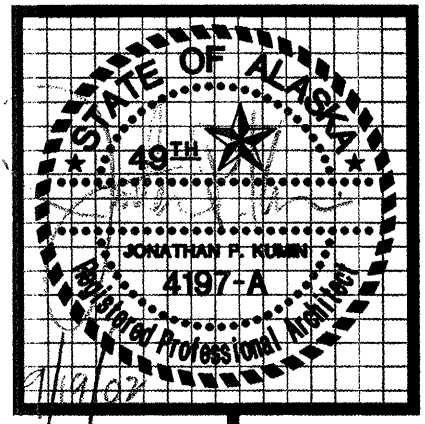


A3 30" BASE CABINET W/ 4 DRAWERS
 A110 1 1/2" = 1'-0"

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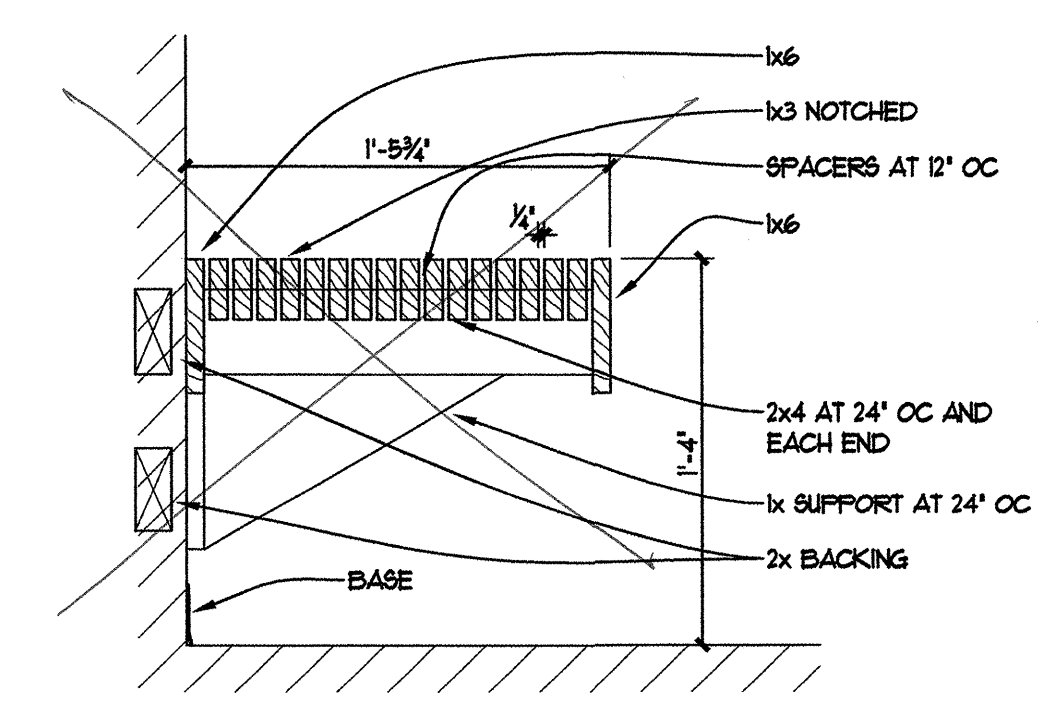
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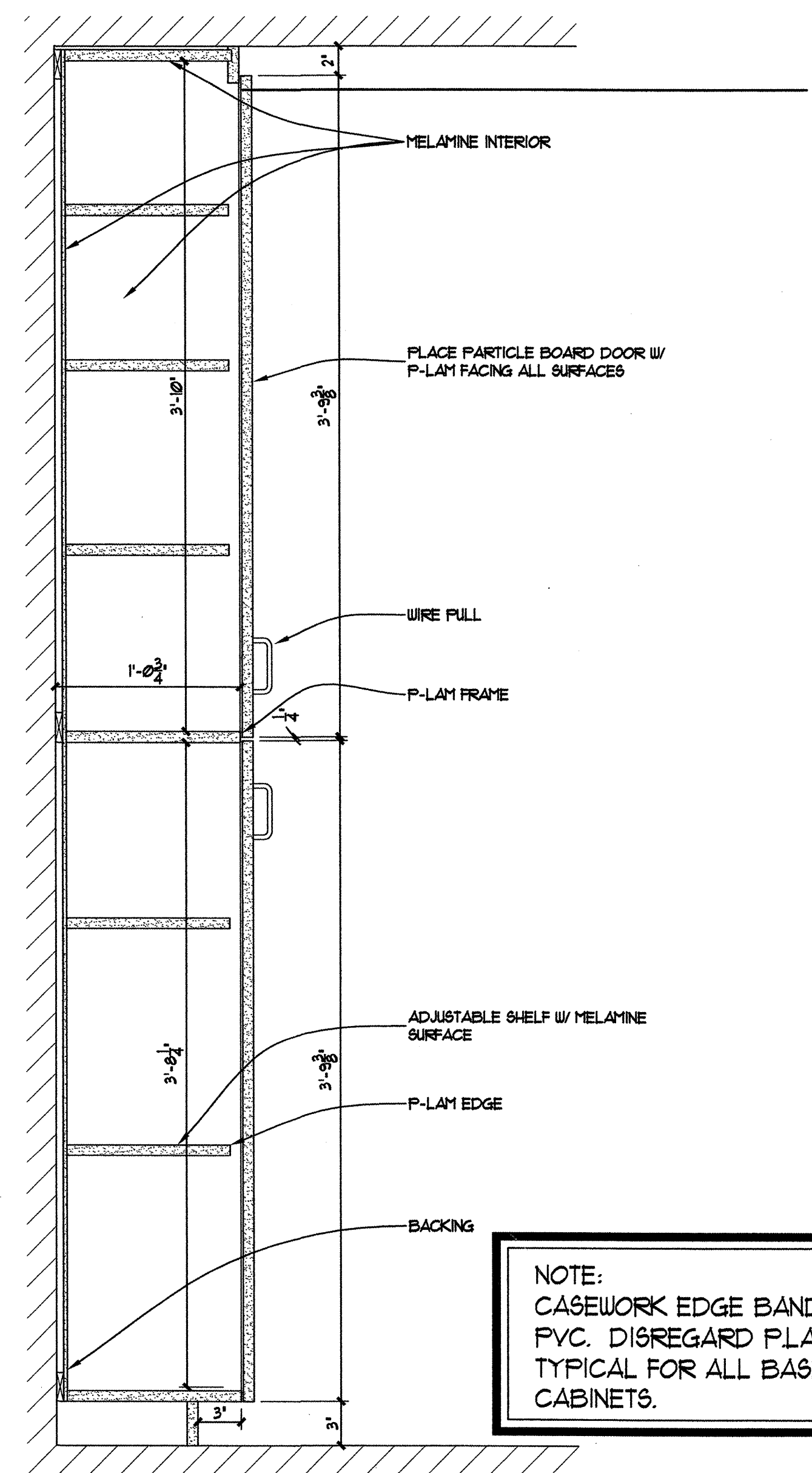
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revisions	
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dwg. title	BASE CABINET DETAILS
sheet no.	A7.11

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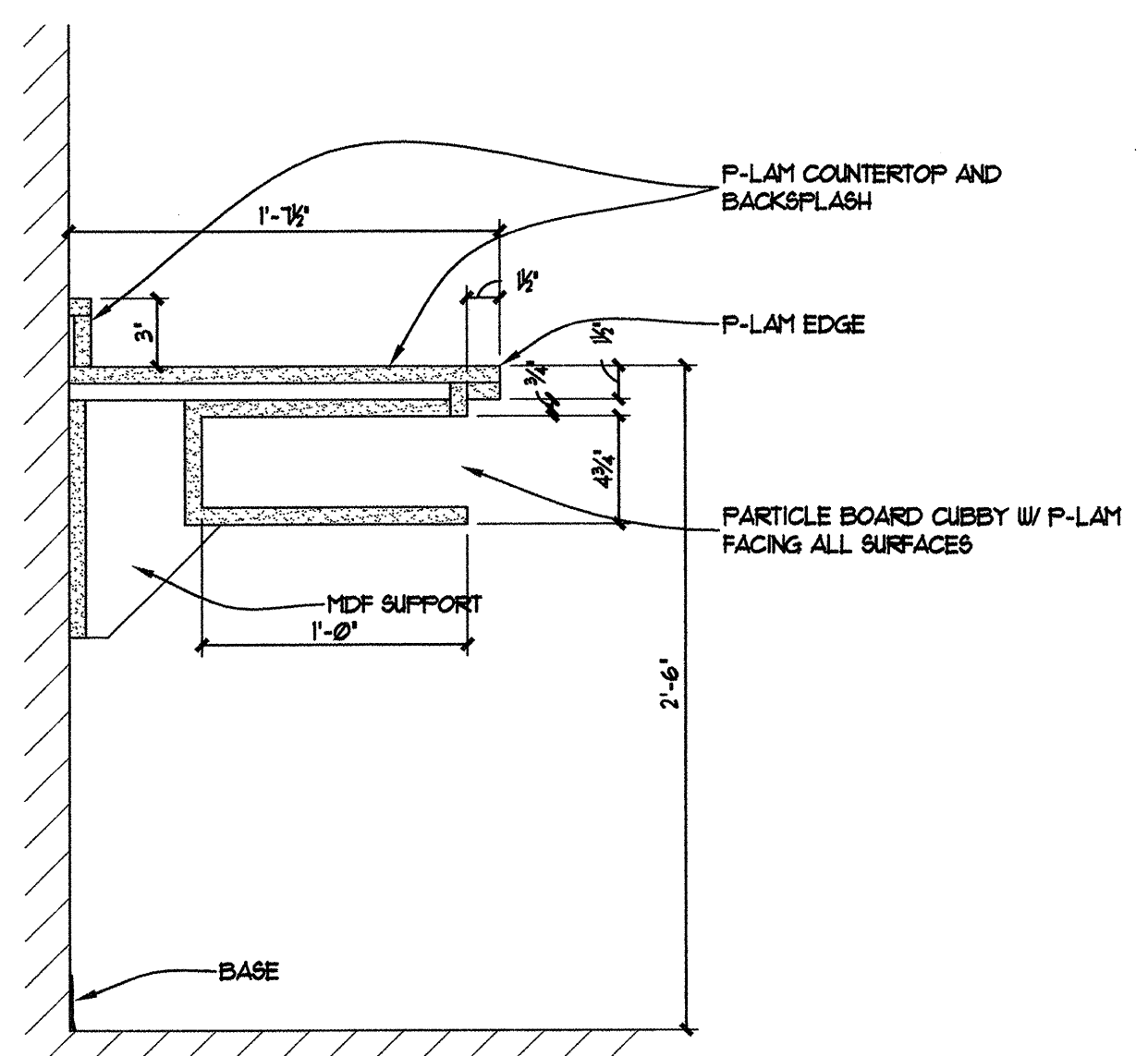


C3 BENCH See ~~ASKA~~³³ for new Bench
 AT11 1 1/2\"/>

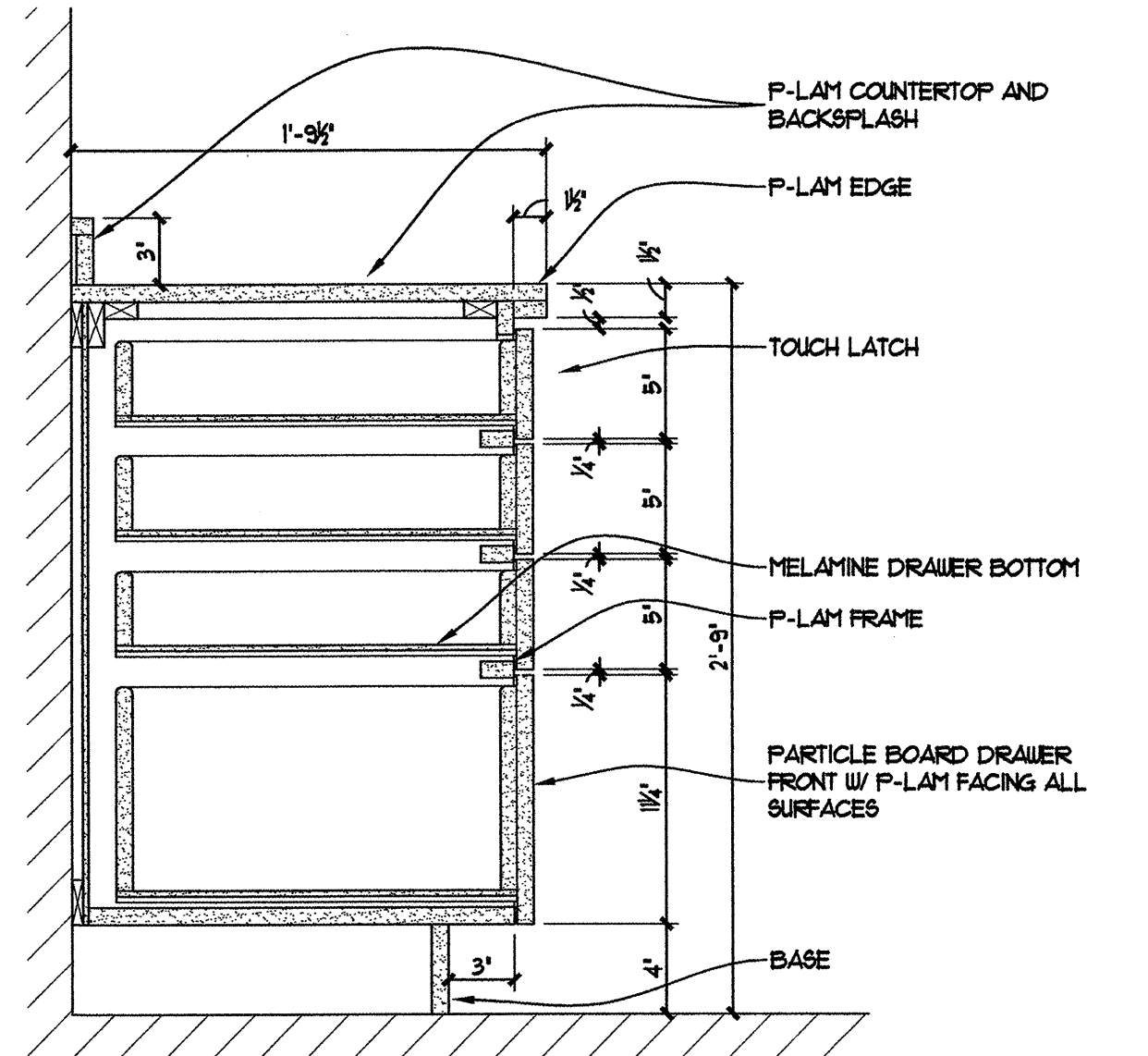


A3 12\"/>
 AT11 1 1/2\"/>

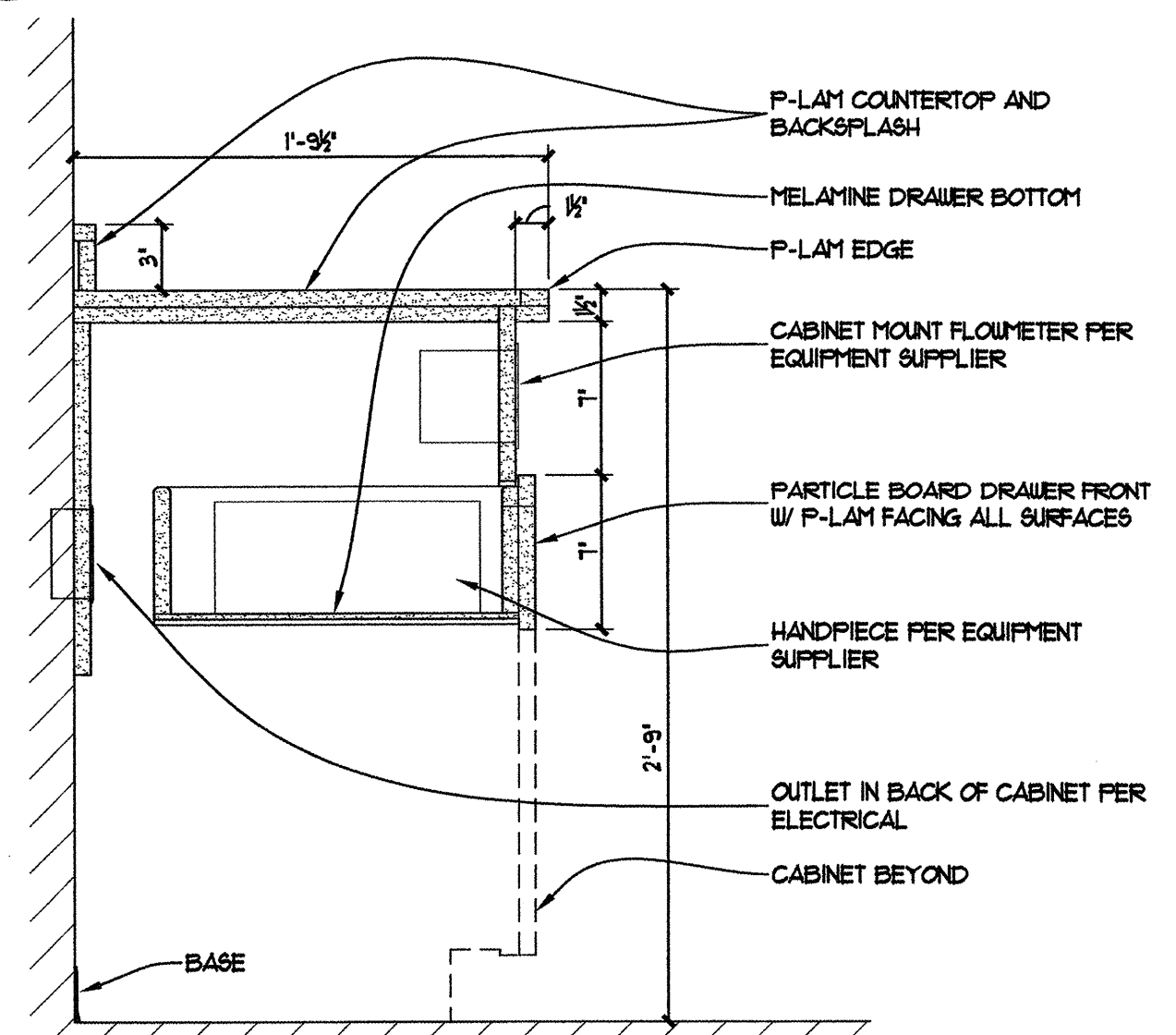
NOTE:
 CASEWORK EDGE BANDING SHALL BE 3 MIL.
 PVC. DISREGARD P.LAM. EDGE BANDING.
 TYPICAL FOR ALL BASE AND WALL
 CABINETS.



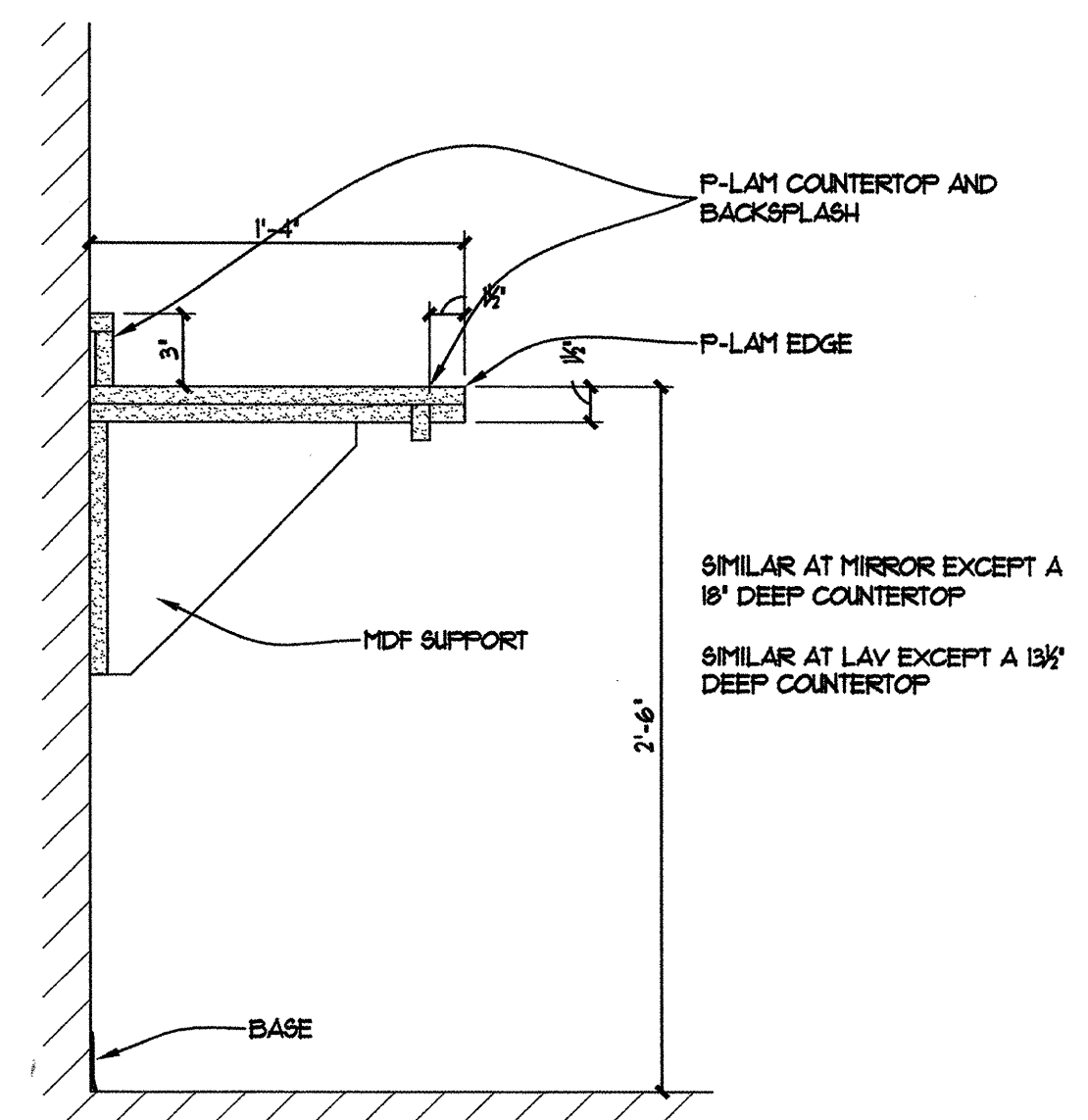
C2 24\"/>
 AT11 1 1/2\"/>



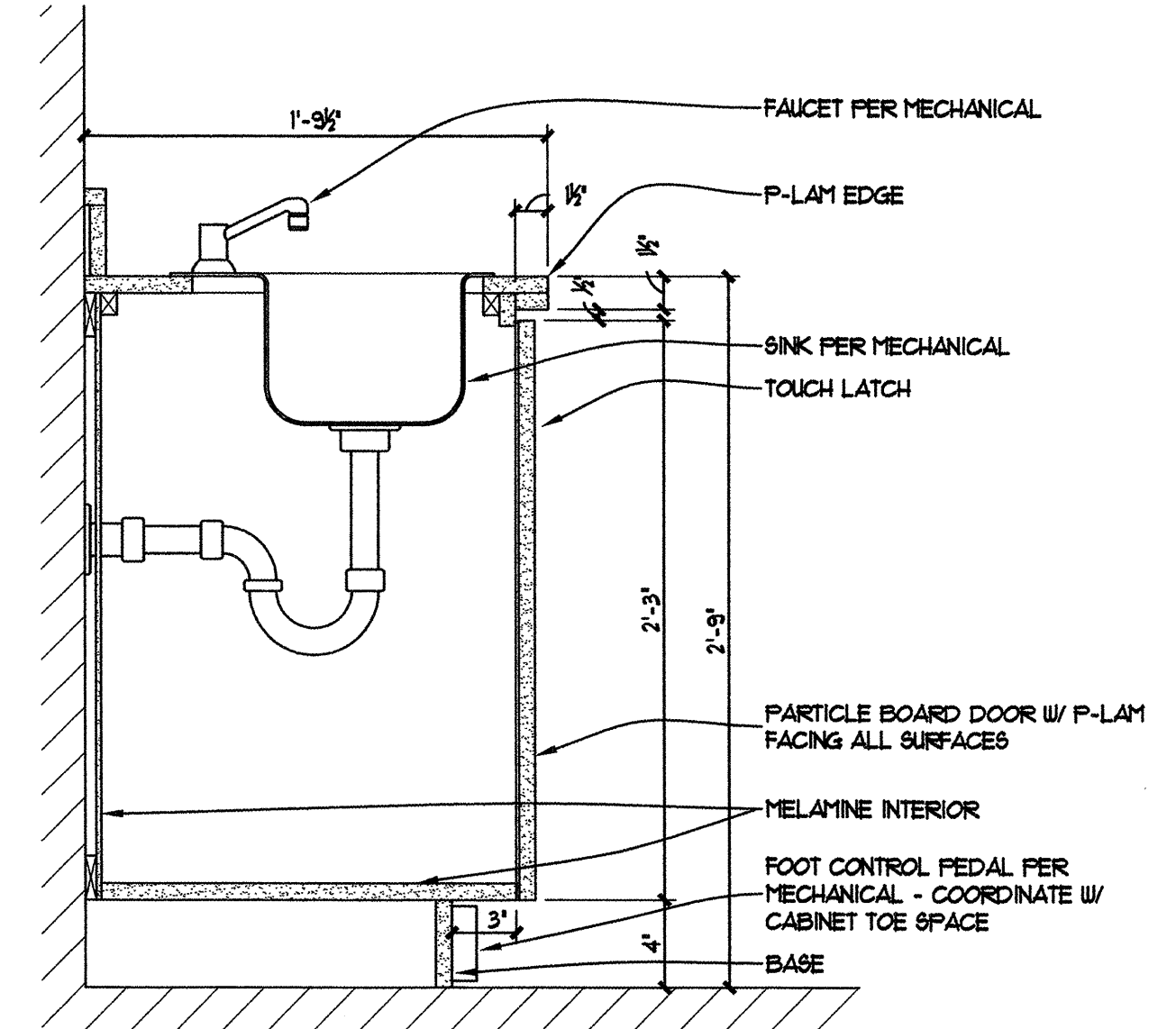
B2 33\"/>
 AT11 1 1/2\"/>



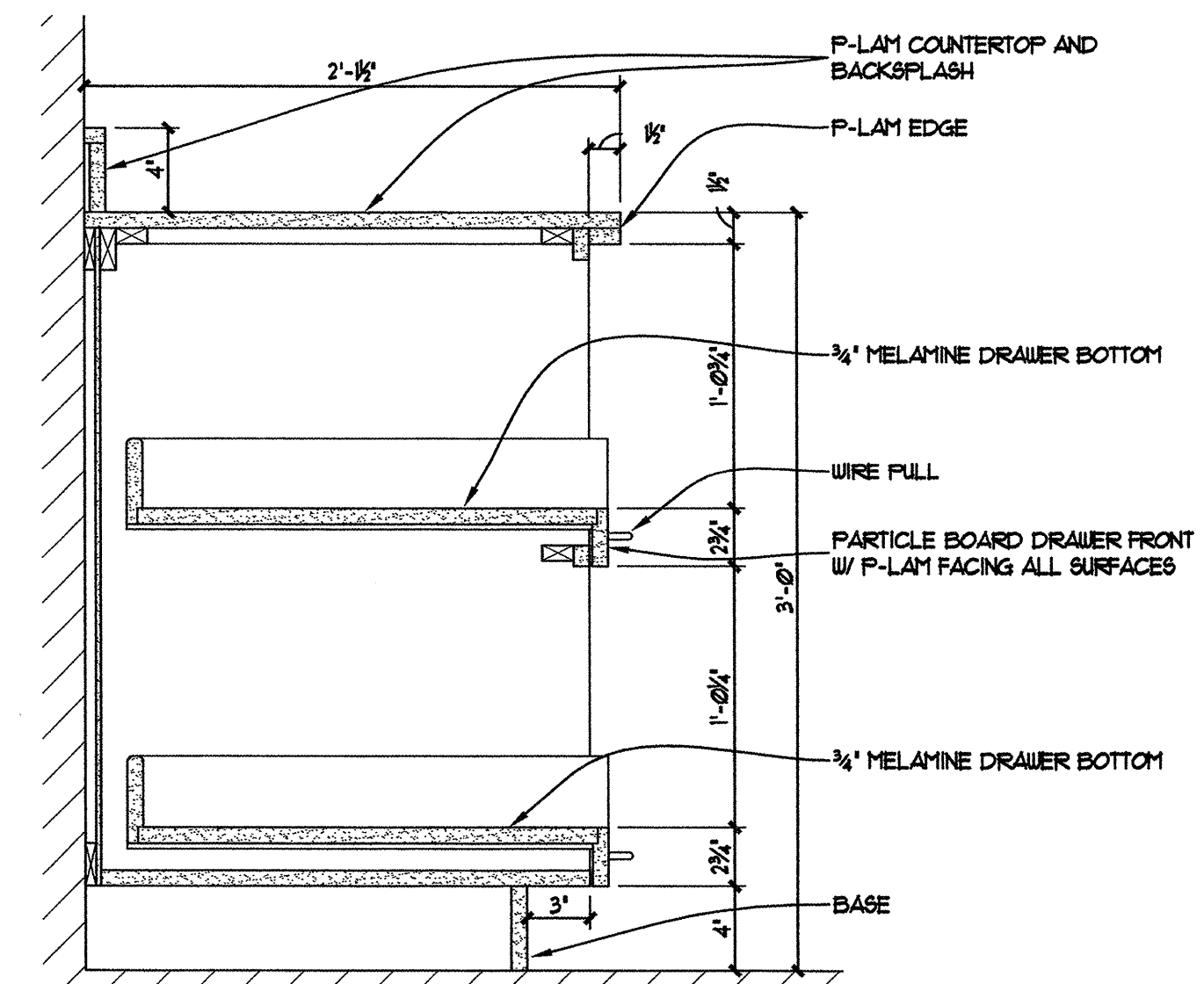
A2 33\"/>
 AT11 1 1/2\"/>



C1 30\"/>
 AT11 1 1/2\"/>

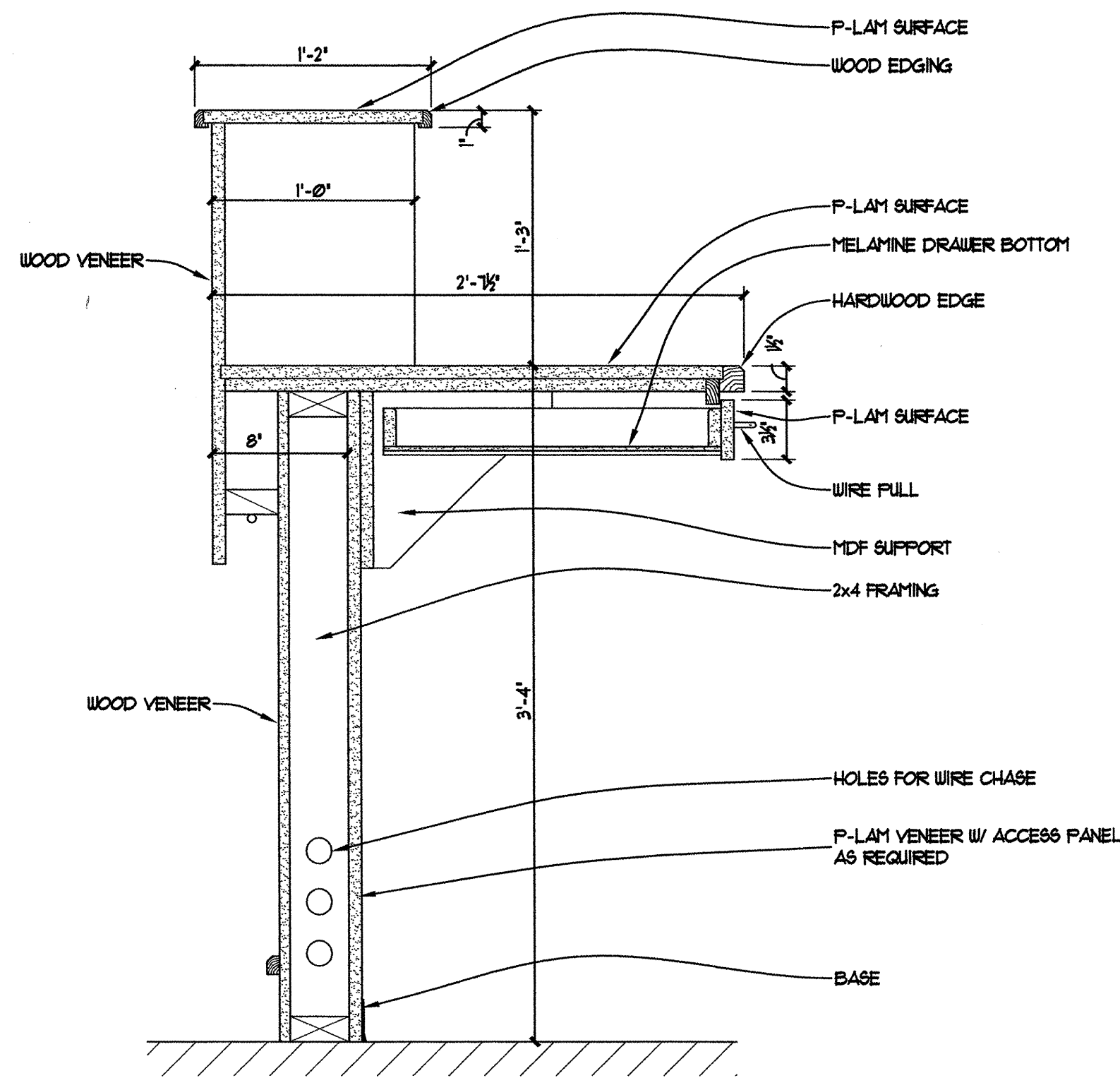


B1 33\"/>
 AT11 1 1/2\"/>

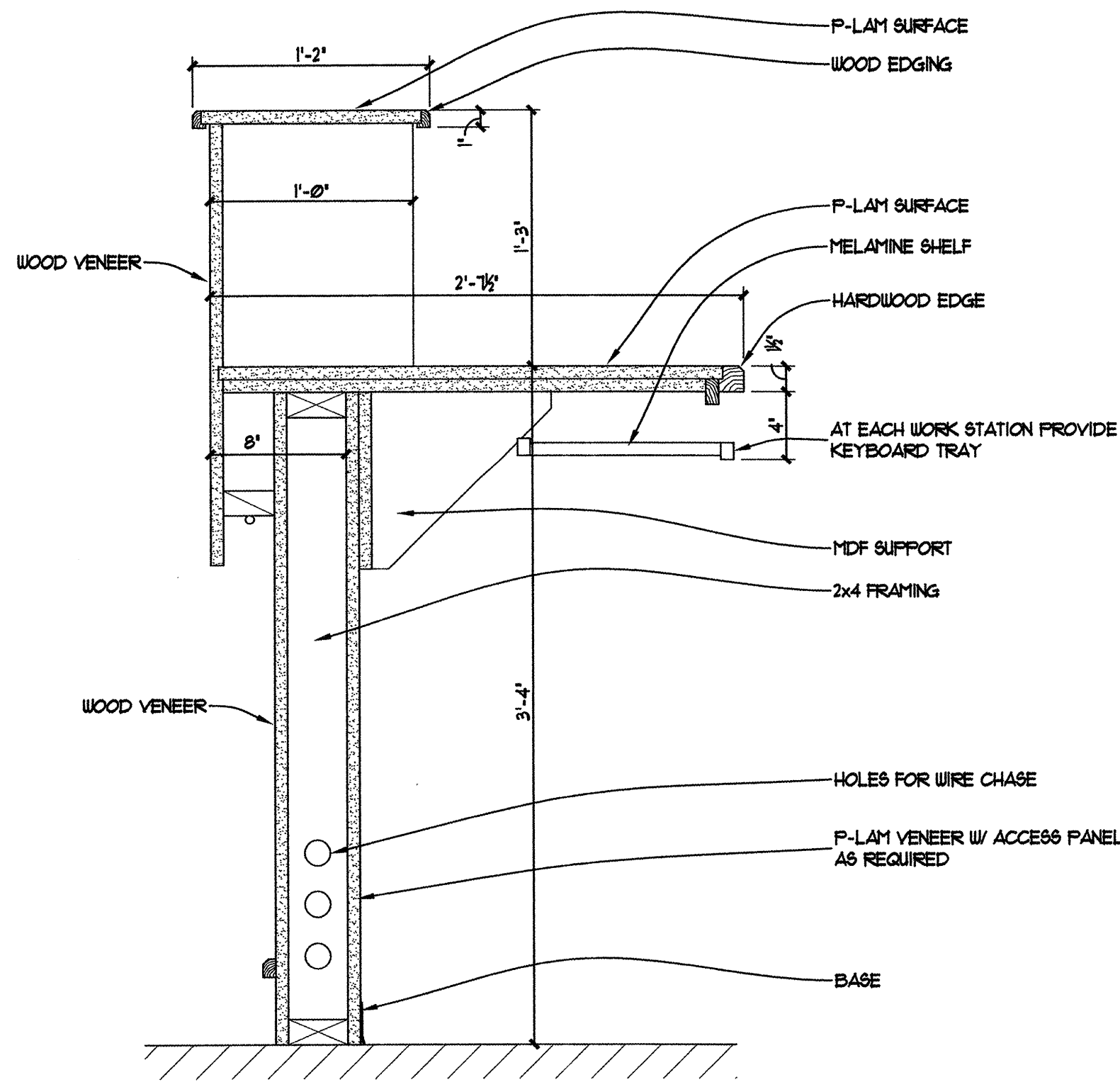


A1 36\"/>
 AT11 1 1/2\"/>

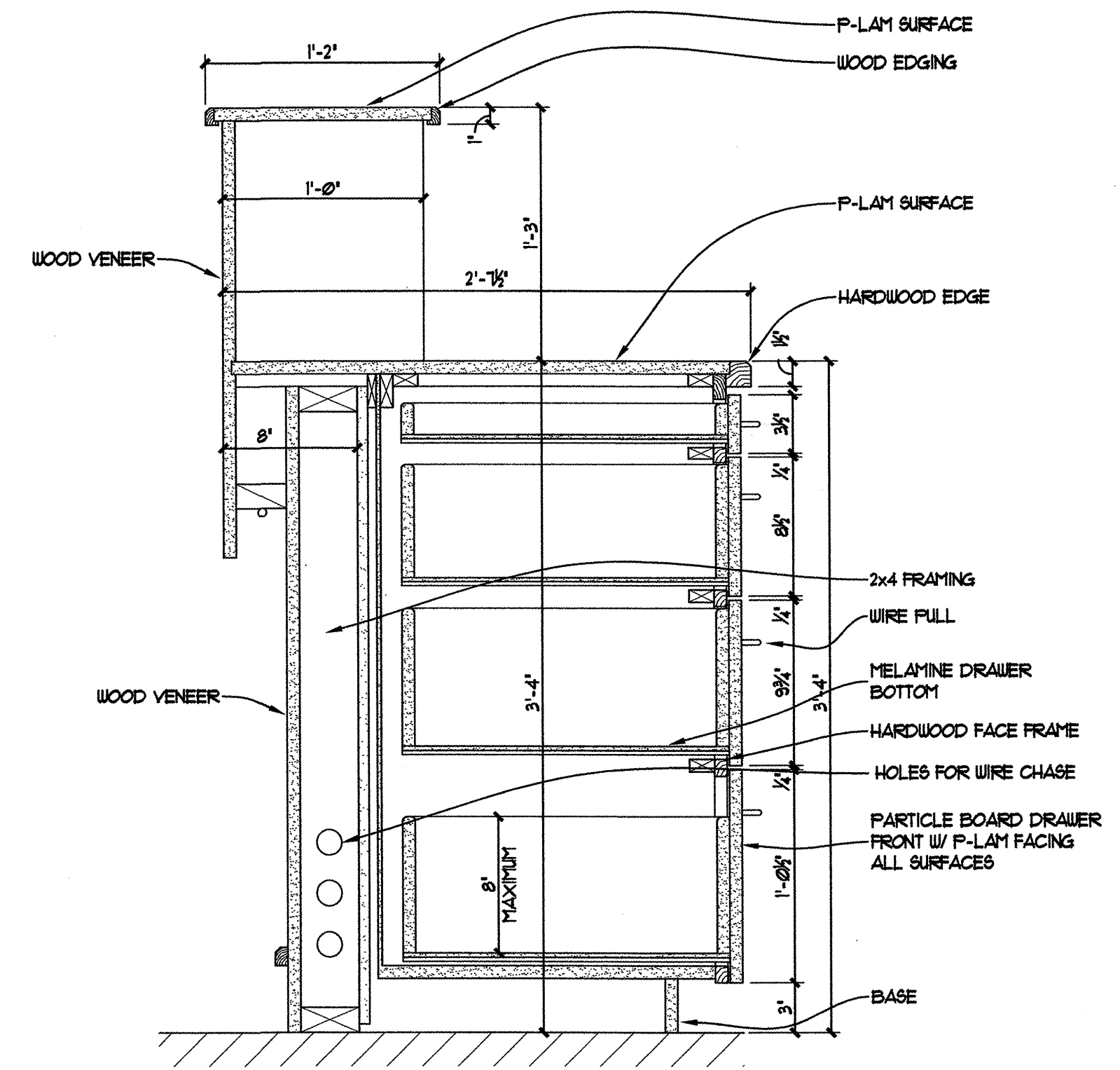
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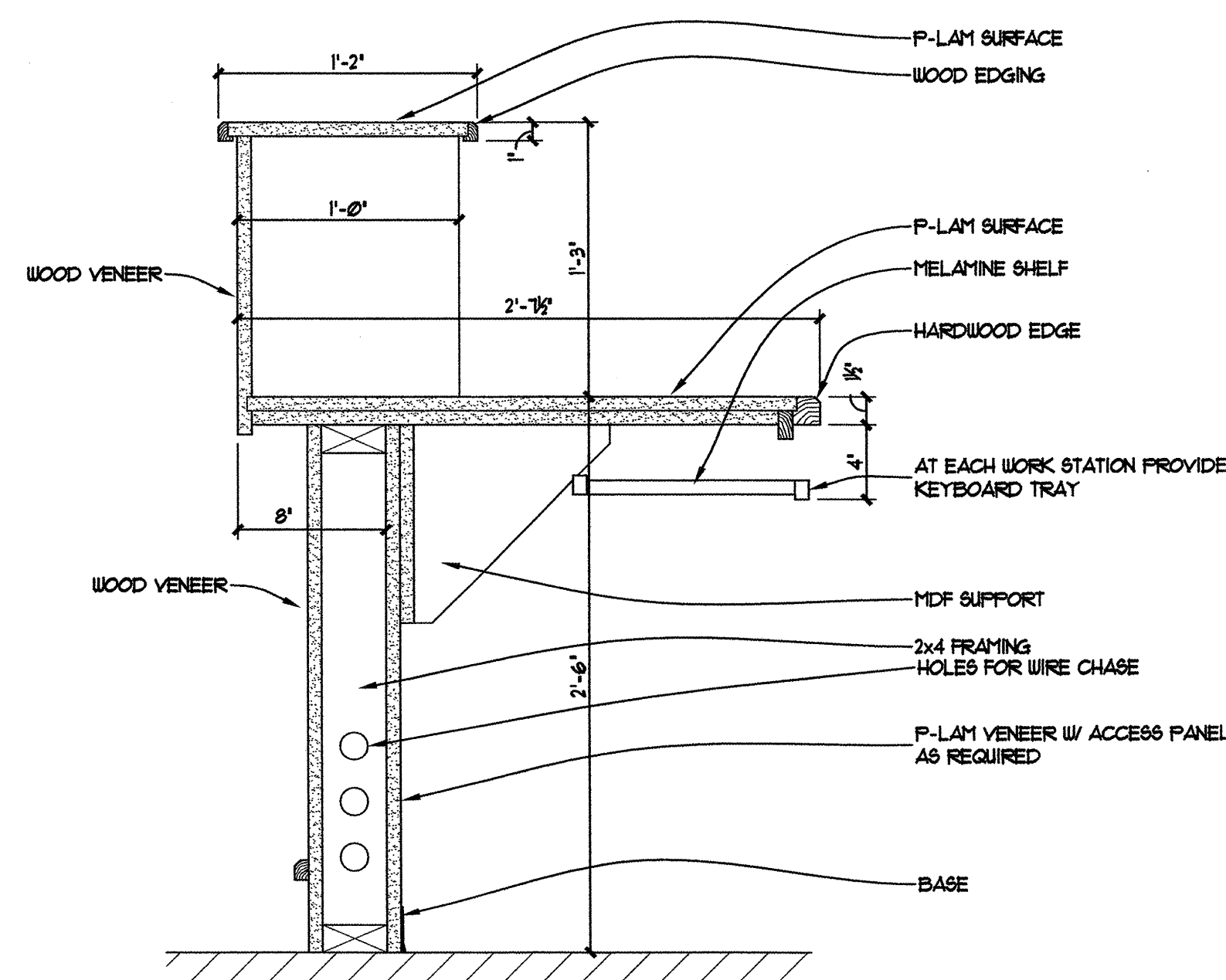
C1 45" RECEPTION DESK @ KNEESPACE
A1.2 1/2" = 1'-0"



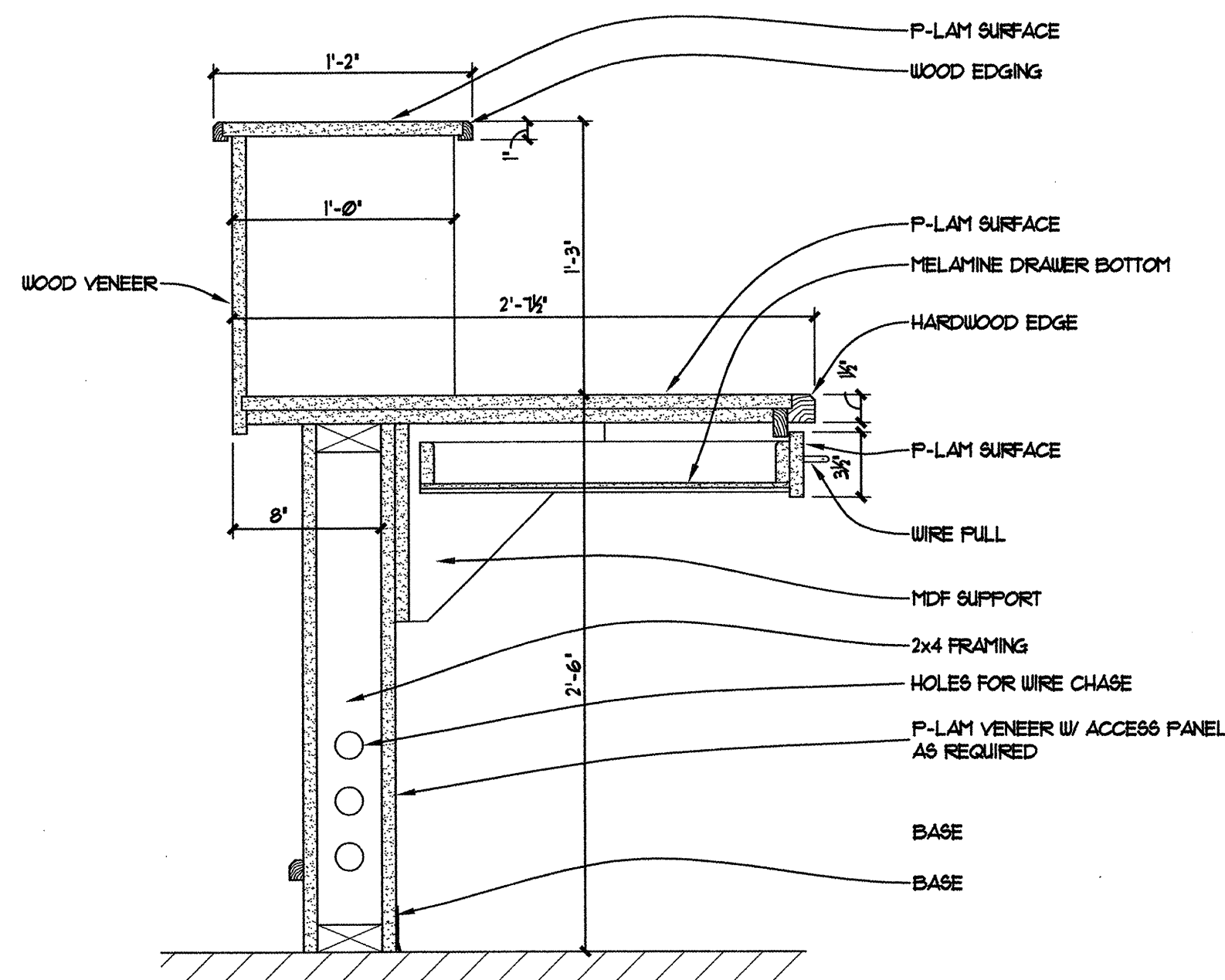
C2 45" RECEPTION DESK @ KEYBOARD TRAY
A1.2 1/2" = 1'-0"



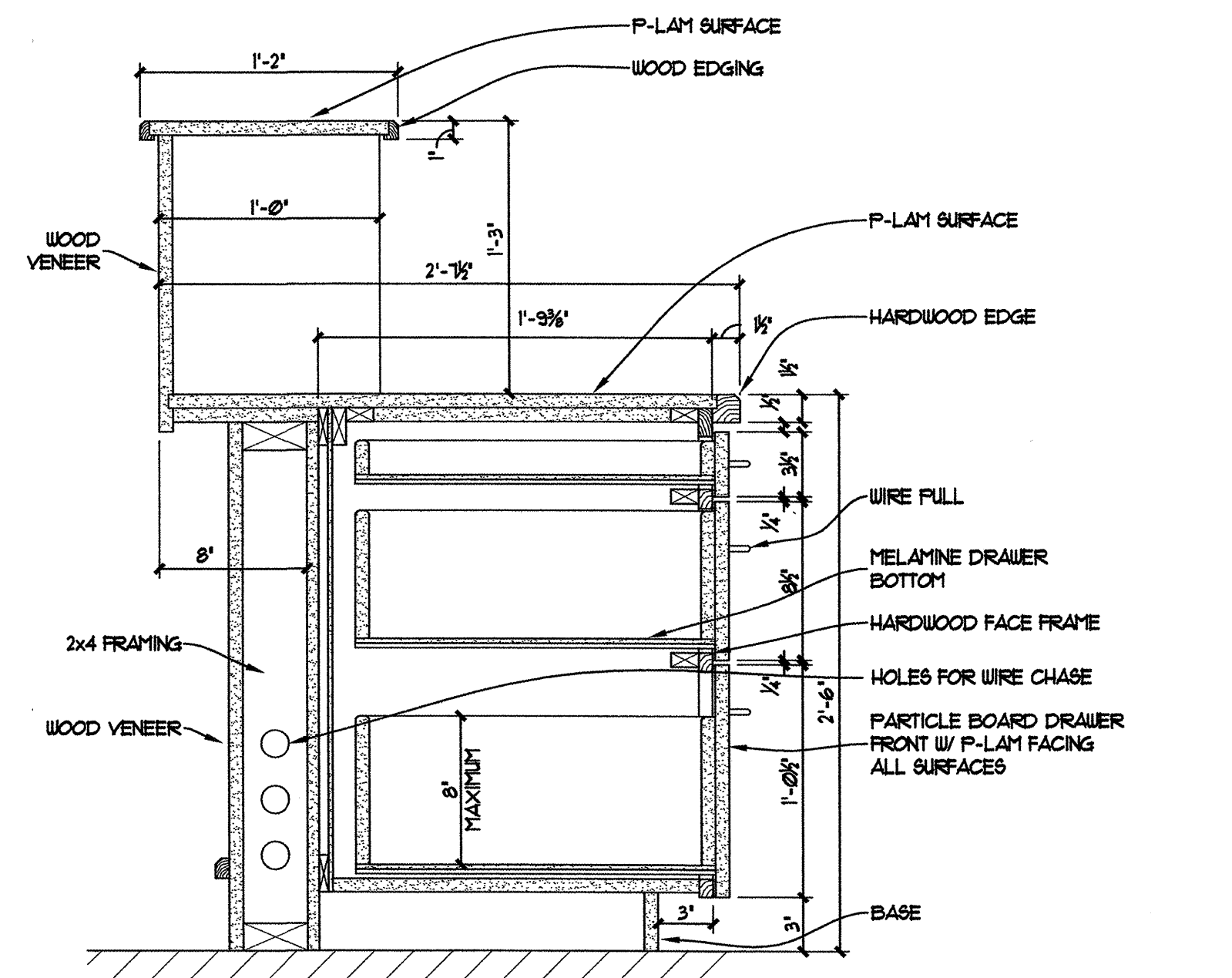
C3 45" RECEPTION DESK @ 4 DRAWERS
A1.2 1/2" = 1'-0"



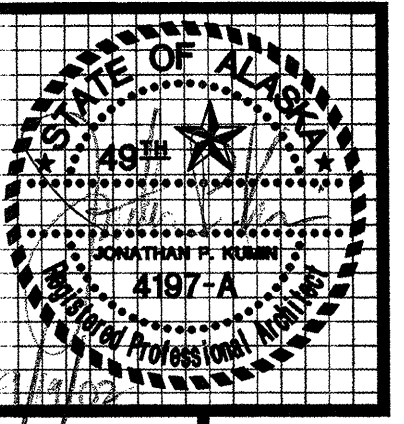
A1 RECEPTION DESK @ KNEESPACE
A1.2 1/2" = 1'-0"



A2 RECEPTION DESK @ KEYBOARD TRAY
A1.2 1/2" = 1'-0"



A3 RECEPTION DESK @ 3 DRAWERS
A1.2 1/2" = 1'-0"

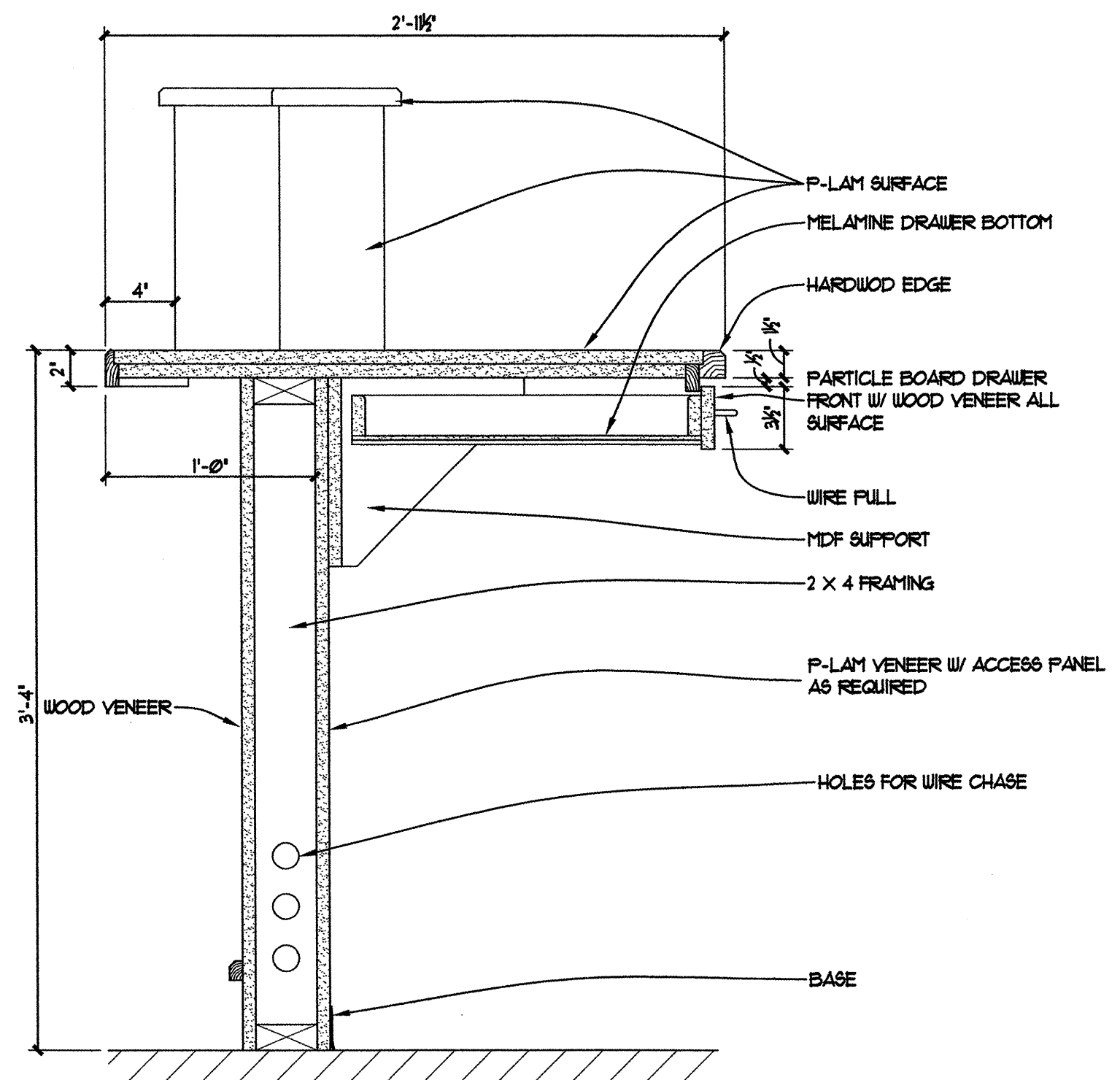


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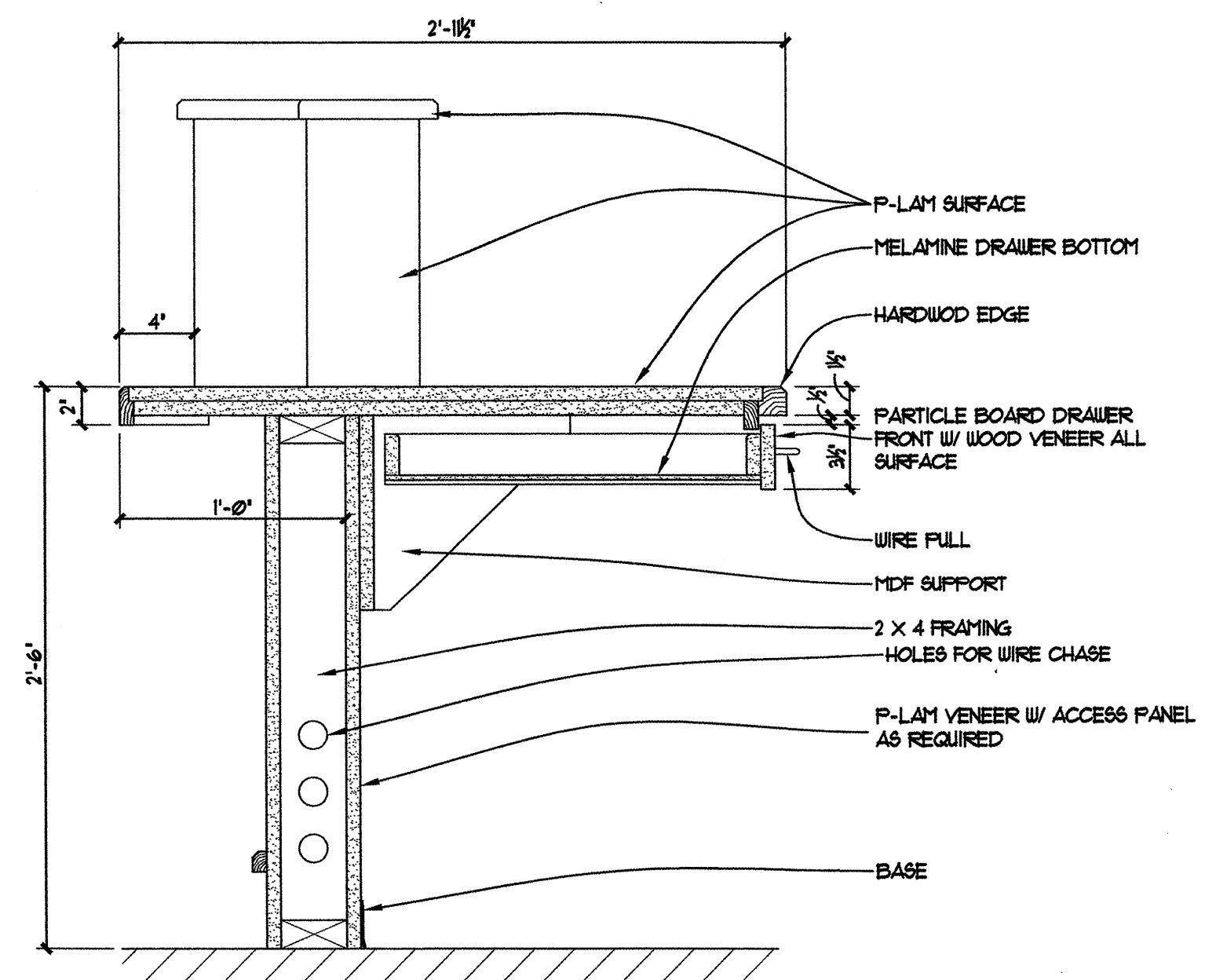
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dwg title	BASE CABINET DETAILS
sheet no.	A7.12

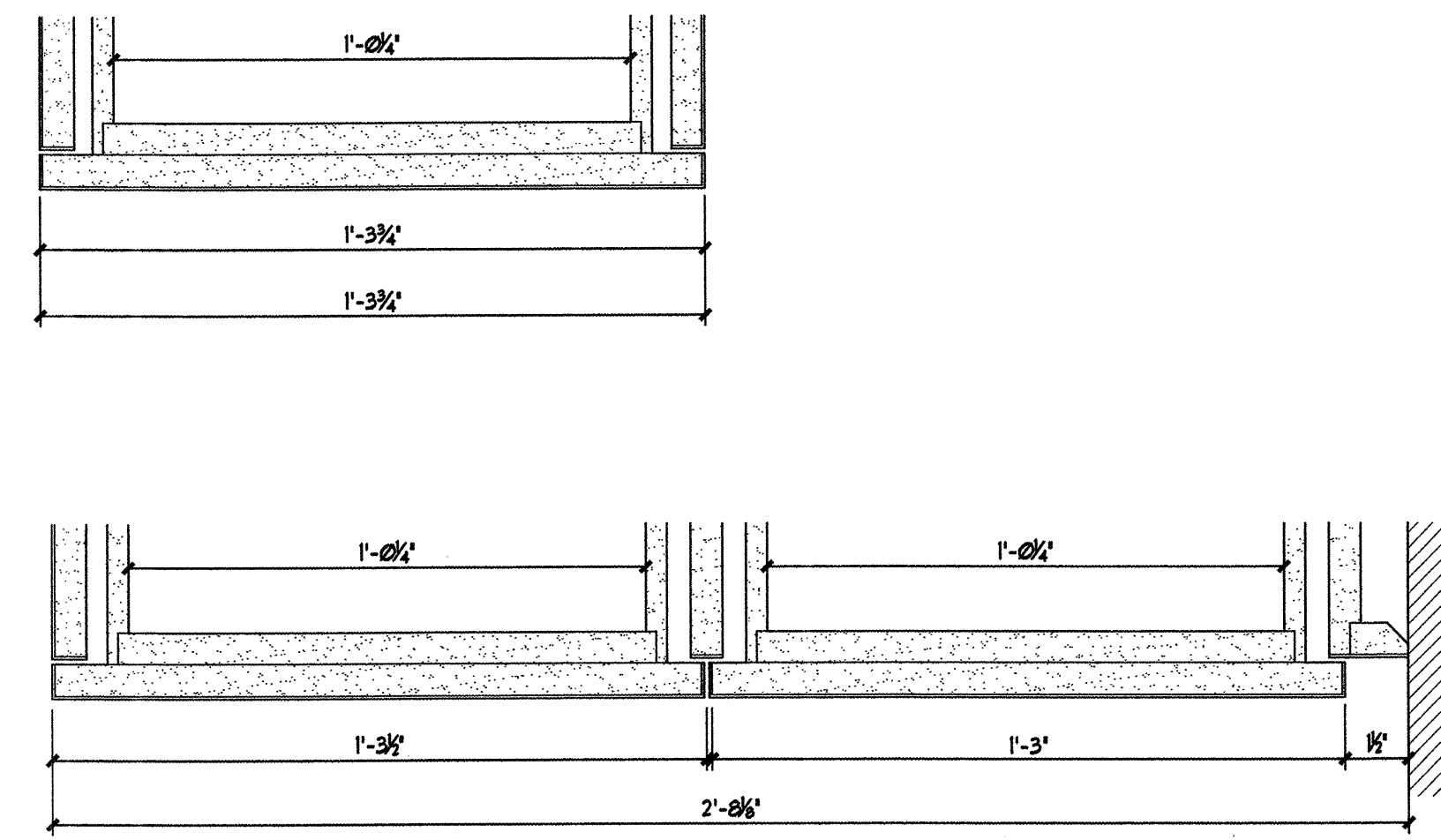
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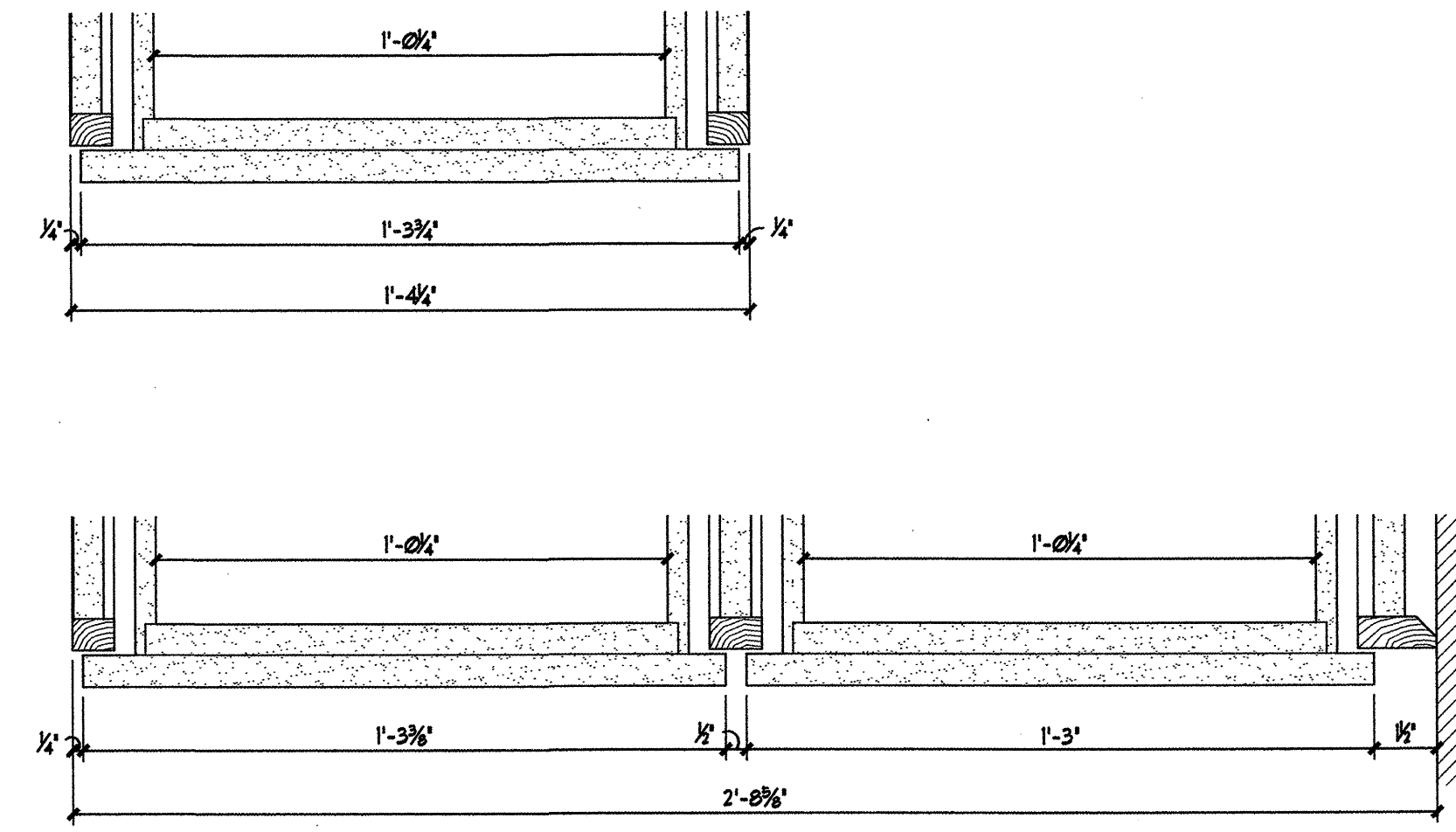
C1 45° RECEPTION DESK @ PASSTHROUGH
 A1.B 1 1/2' = 1'-0"



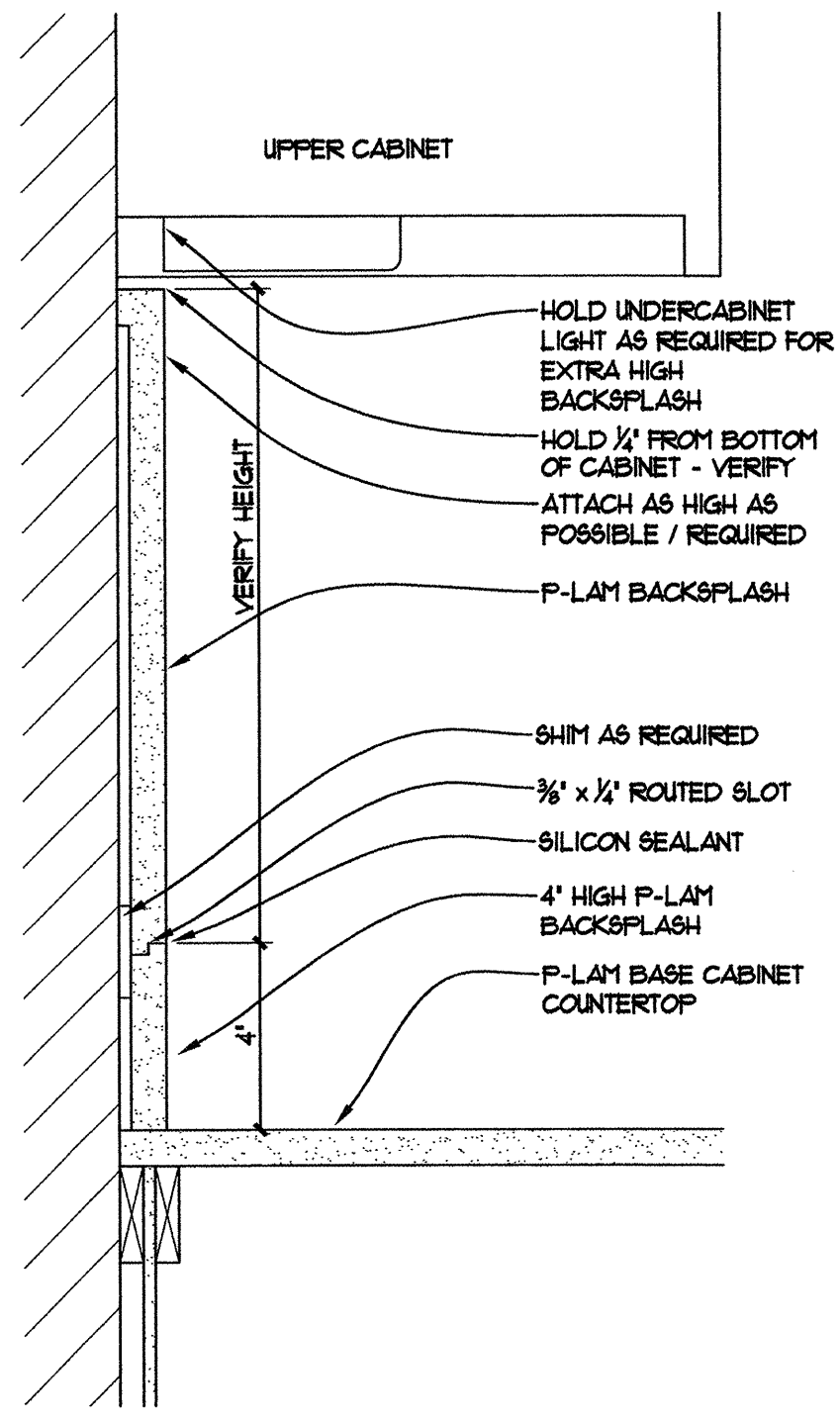
A1 RECEPTION DESK @ PASSTHROUGH
 A1.B 1 1/2' = 1'-0"



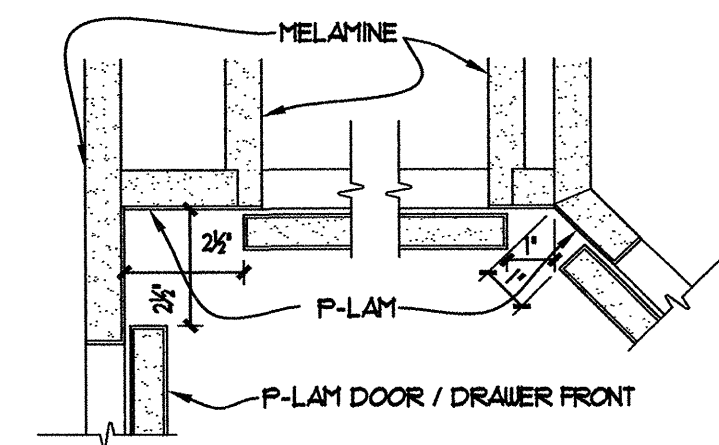
C2 TYPICAL P-LAM FACE FILE DRAWER
 A1.B 3' = 1'-0"



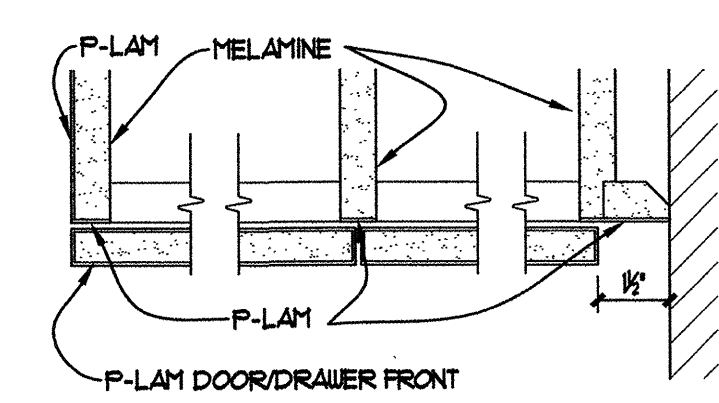
C3 TYPICAL WOOD FACE FRAME FILE DRAWER
 A1.B 3' = 1'-0"



A2 EXTENDED BACKSPLASH DETAIL
 A1.B 3' = 1'-0"

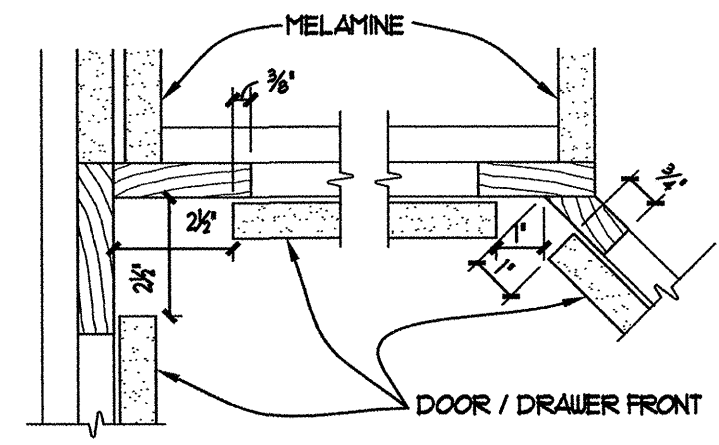


ALL MATERIAL TO BE NOMINAL 3/4" THICK
 DOOR, DRAWER AND COUNTERTOP WORK TO BE AUI PREMIUM QUALITY, CABINETS TO BE AUI CUSTOM GRADE

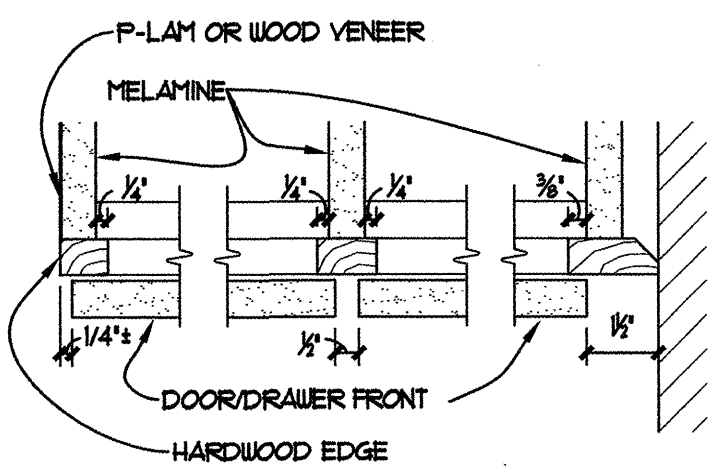


DRAYER SLIDES TO BE FULL EXTENSION, MANUFACTURED BY ACCURIDE OR APPROVED EQUAL
 HINGES TO BE FULLY CONCEALED, MANUFACTURED BY BLUM OR APPROVED EQUAL

B3 TYPICAL P-LAM FACE DETAILS
 A1.B 3' = 1'-0"

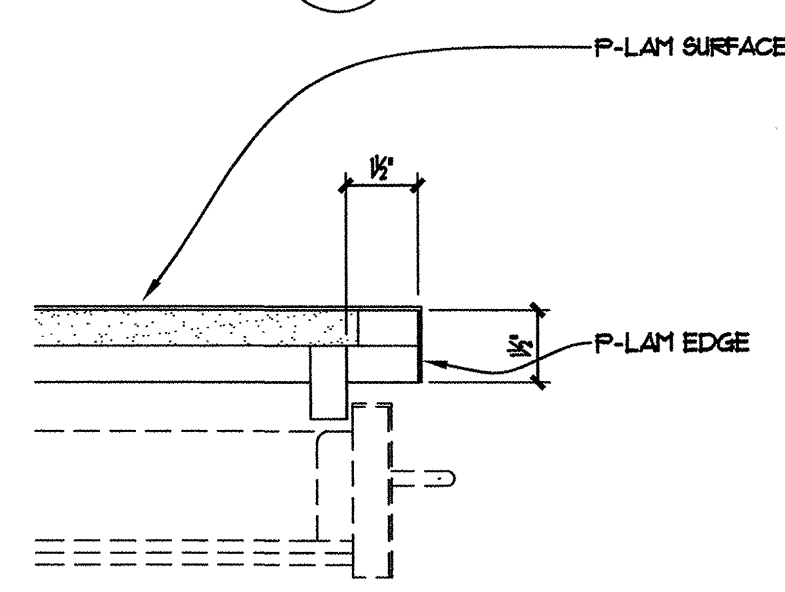


ALL MATERIAL TO BE NOMINAL 3/4" THICK
 DOOR, DRAWER AND COUNTERTOP WORK TO BE AUI PREMIUM QUALITY, CABINETS TO BE AUI CUSTOM GRADE

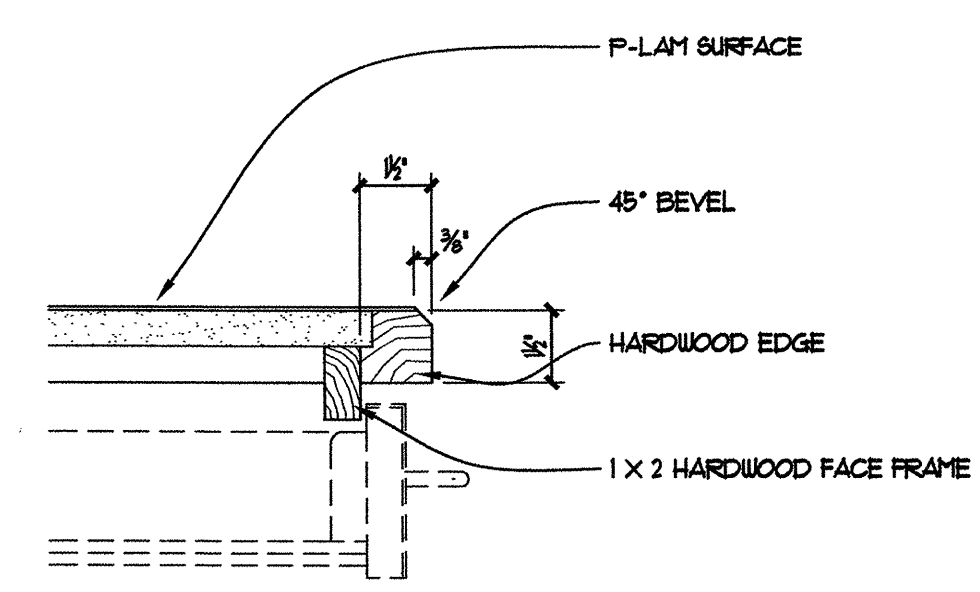


DRAYER SLIDES TO BE FULL EXTENSION, MANUFACTURED BY ACCURIDE OR APPROVED EQUAL
 HINGES TO BE FULLY CONCEALED, MANUFACTURED BY BLUM OR APPROVED EQUAL

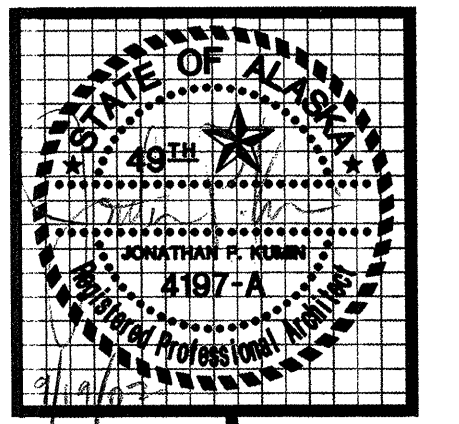
A3 TYPICAL WOOD FACE FRAME DETAILS
 A1.B 3' = 1'-0"



A4 TYPICAL P-LAM EDGE DETAIL
 A1.B 3' = 1'-0"



A5 TYPICAL WOOD EDGE DETAIL
 A1.B 3' = 1'-0"



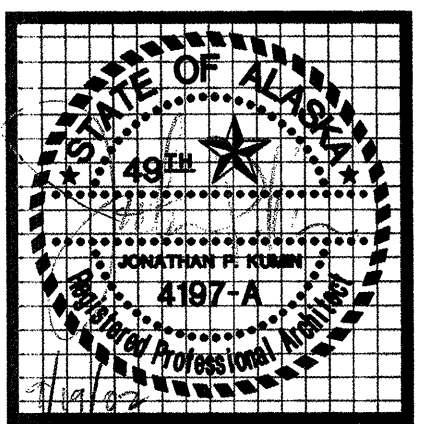
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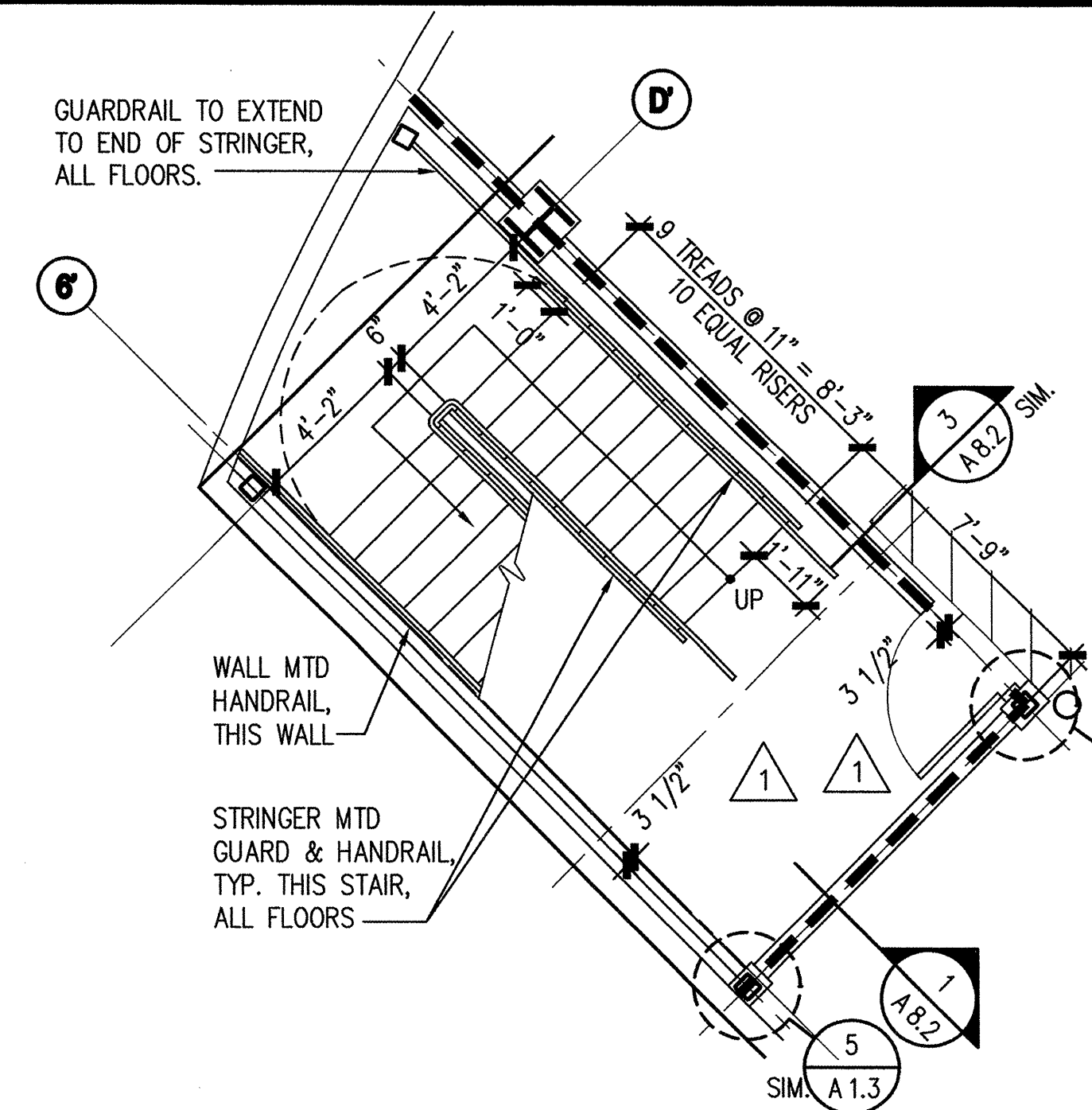
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job no.	20152
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sheet no.	A7.13

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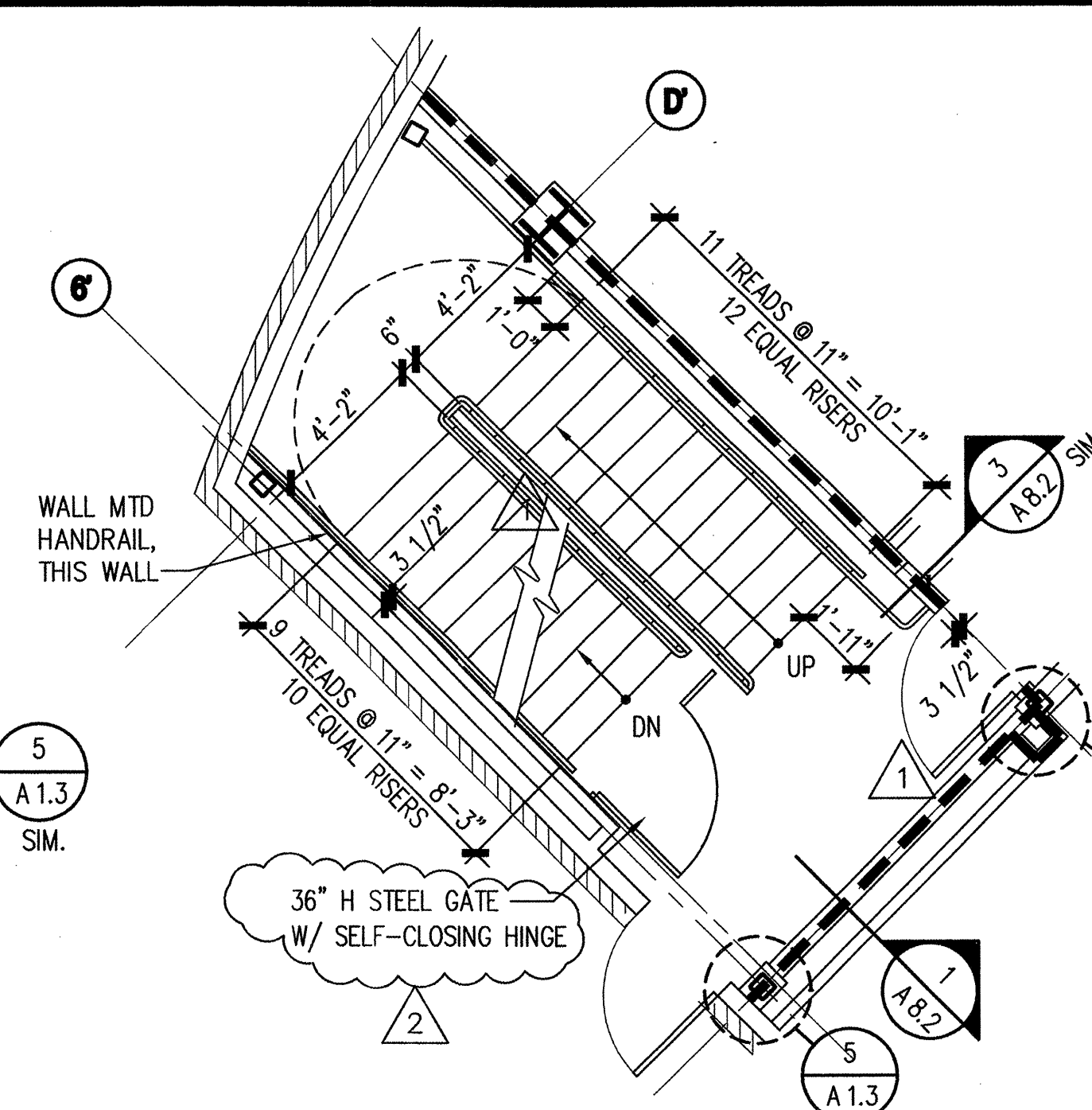


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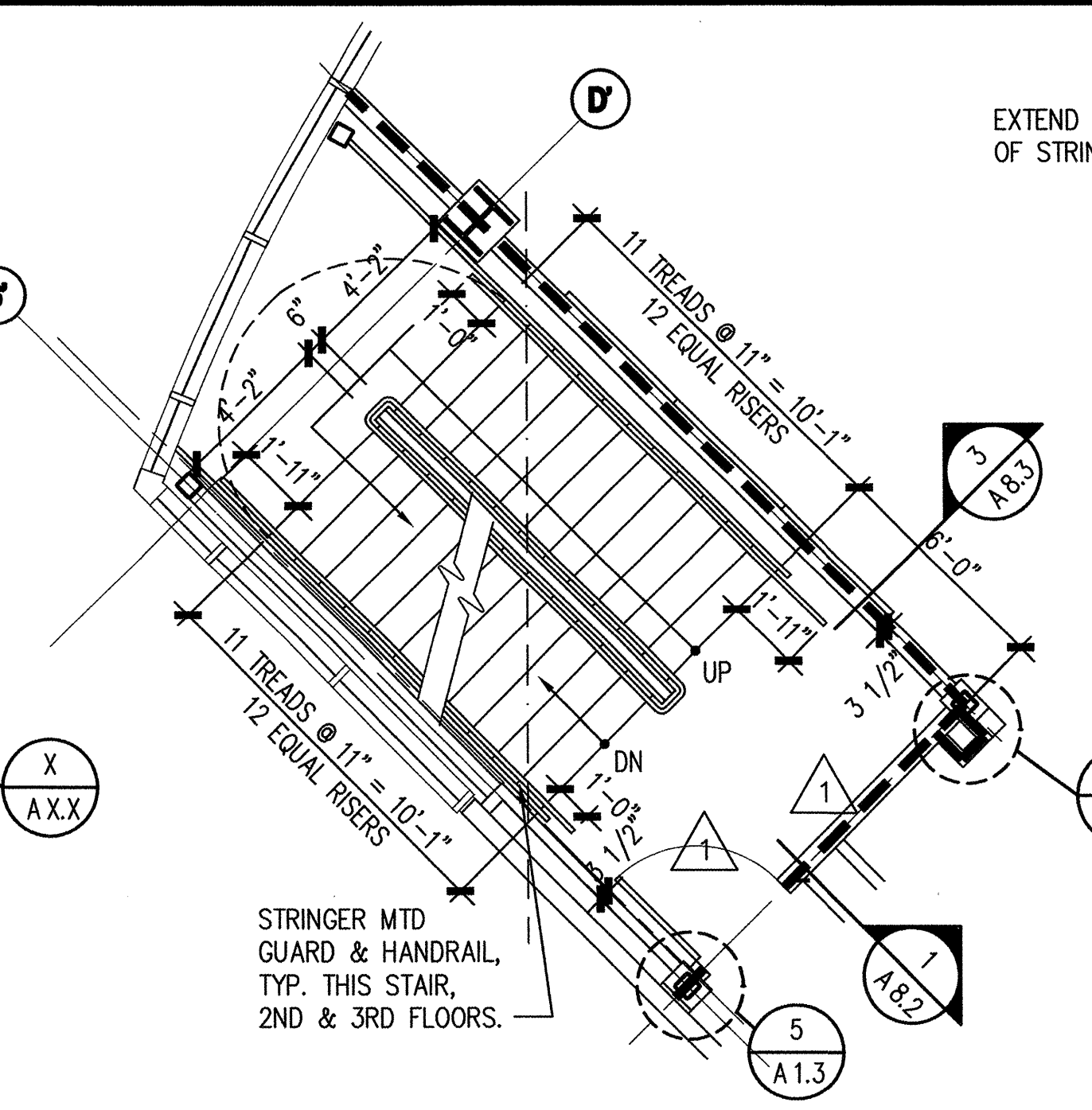
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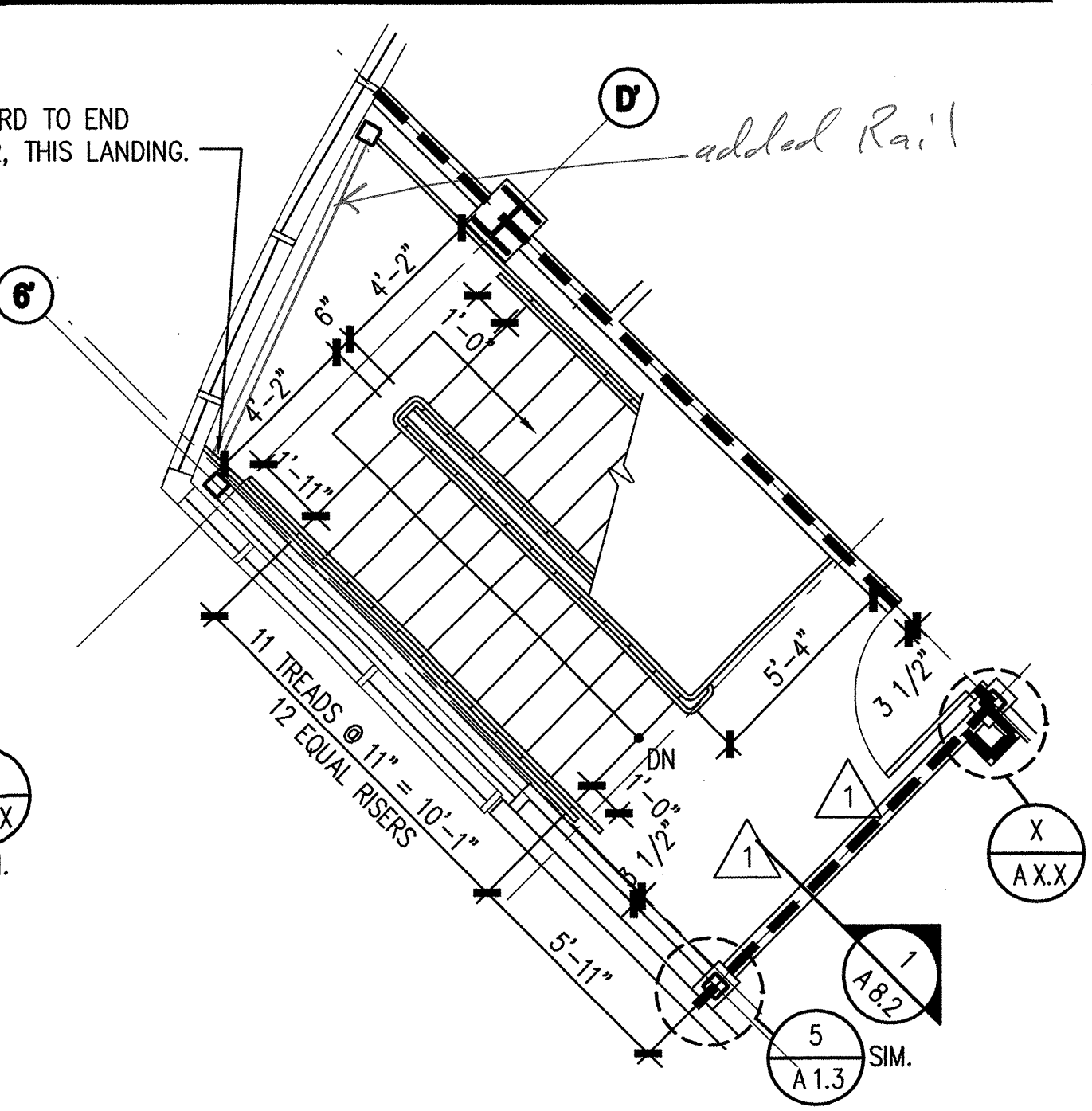
1 STAIR 1 PLAN - BASEMENT
 1/4" = 1'-0"



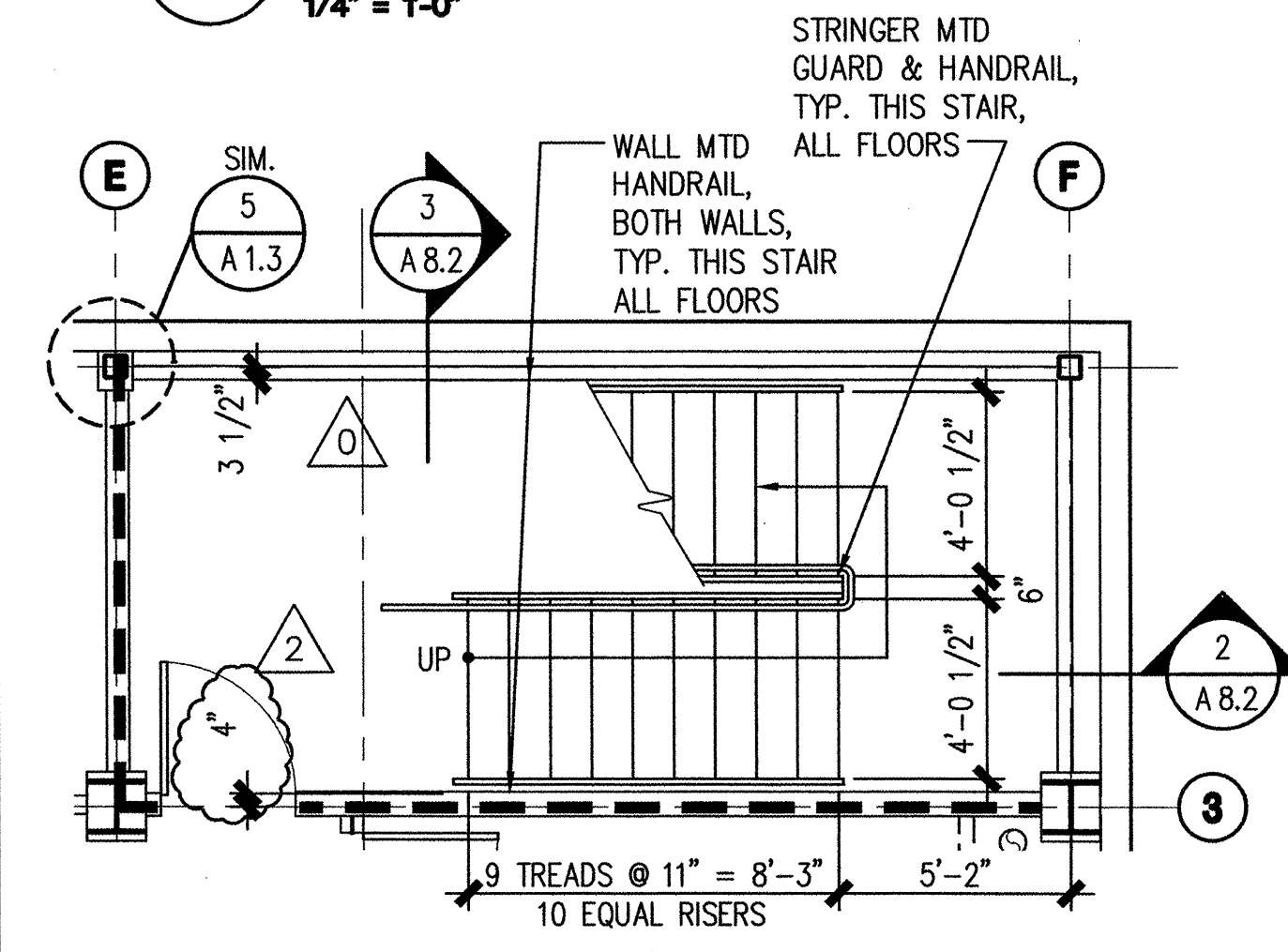
2 STAIR 1 PLAN - 1ST FLOOR
 1/4" = 1'-0"



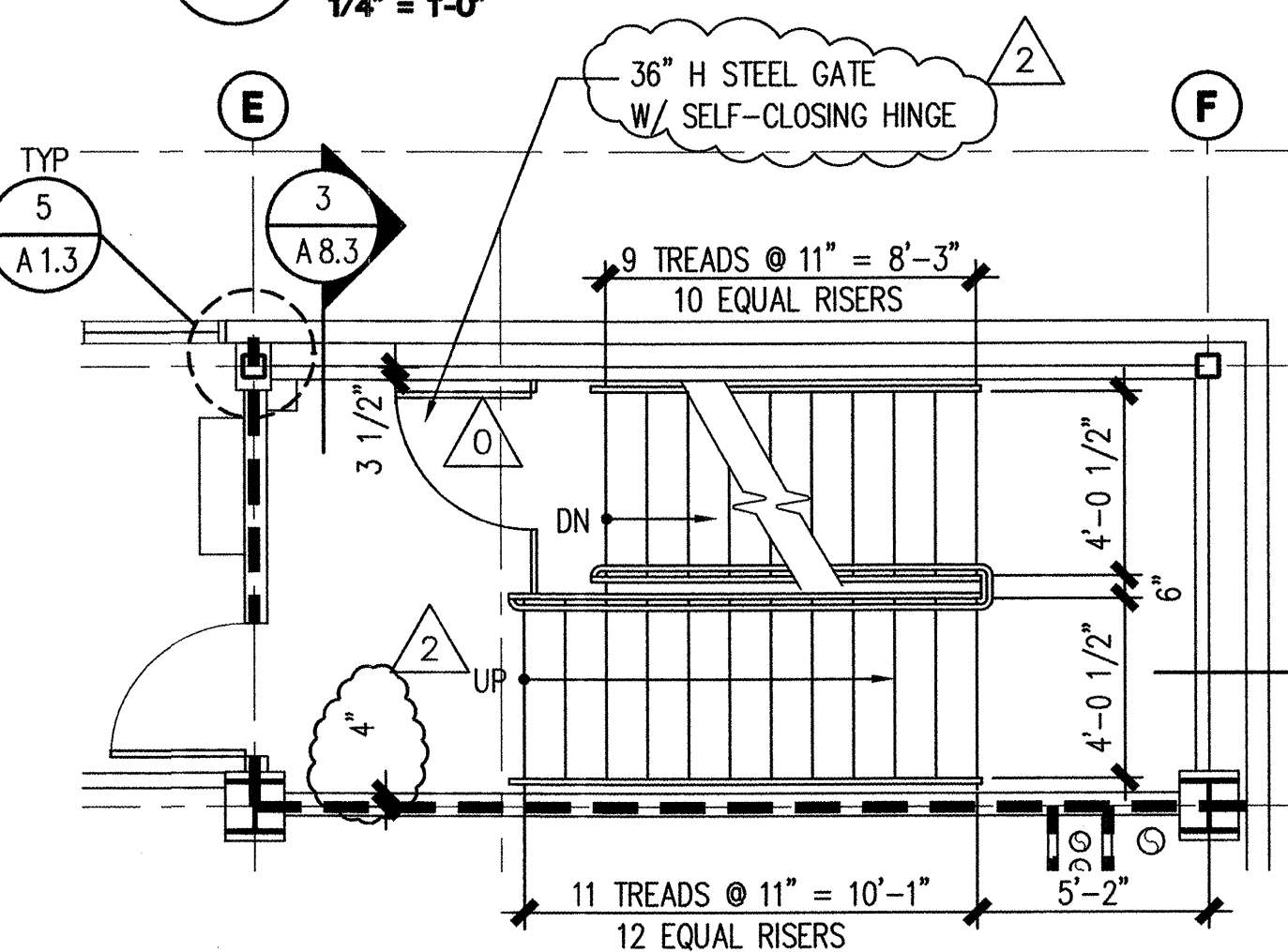
3 STAIR 1 PLAN - 2ND FLOOR
 1/4" = 1'-0"



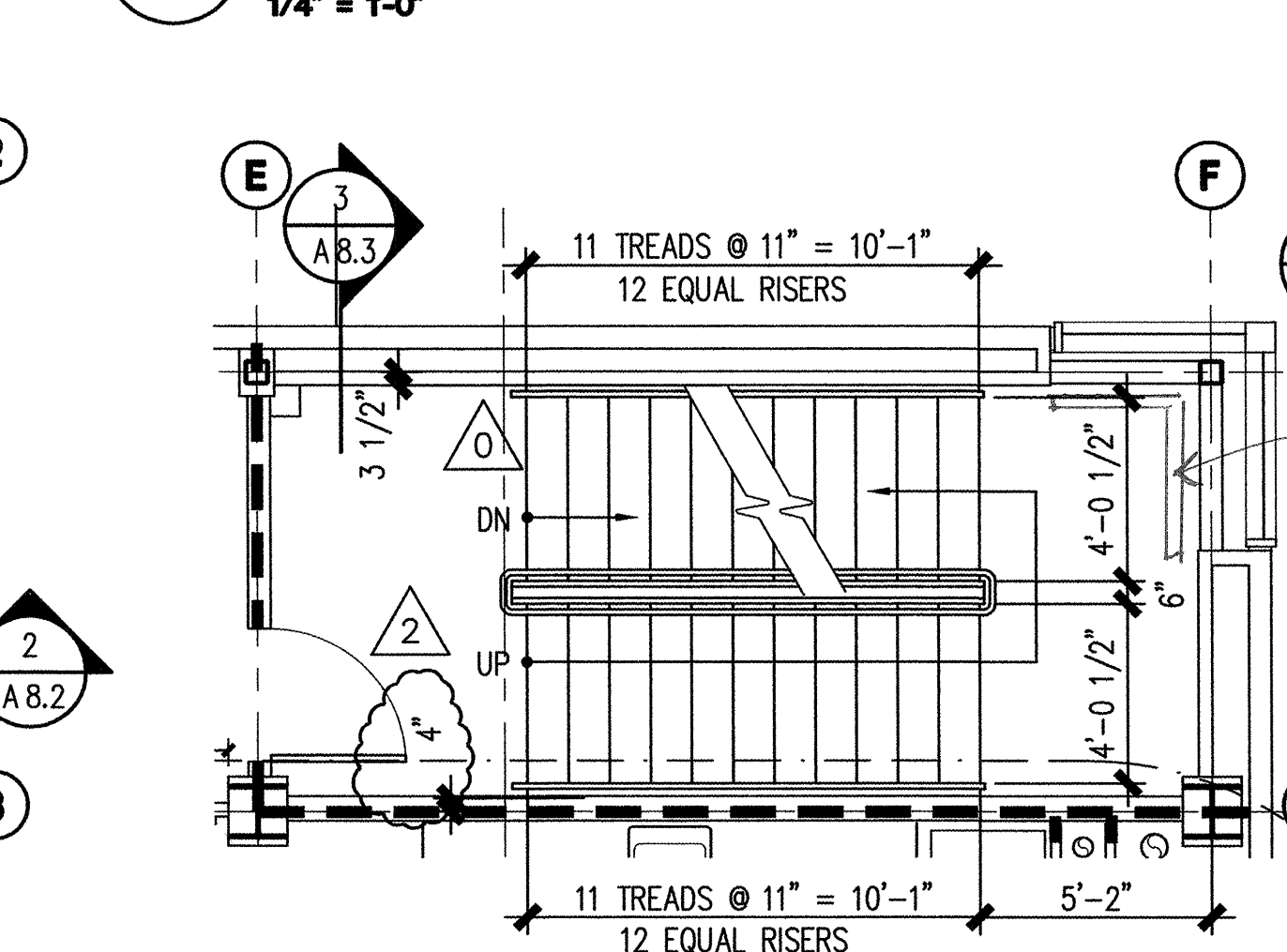
4 STAIR 1 PLAN - 3RD FLOOR
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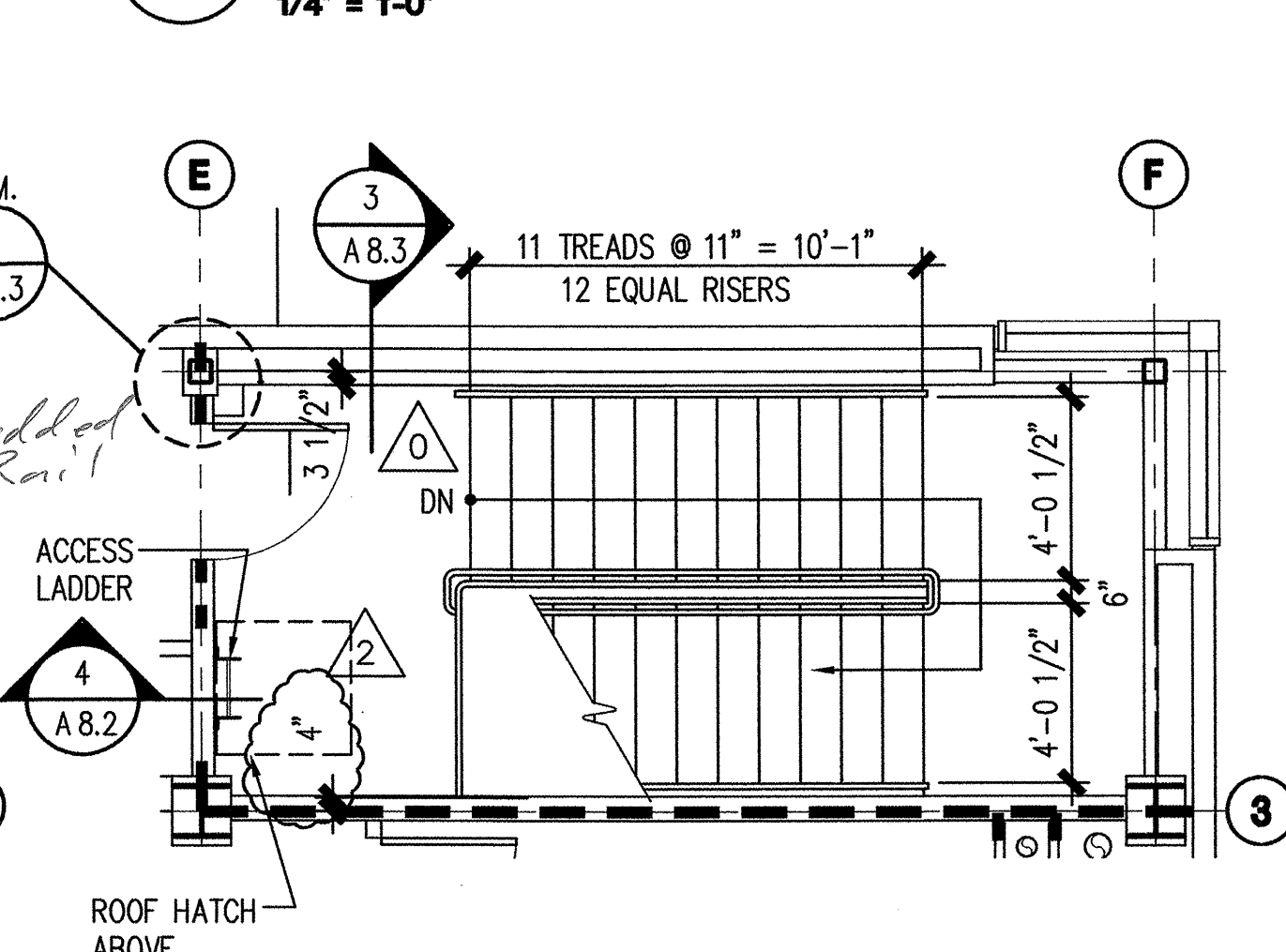
5 STAIR 2 PLAN - BASEMENT
 1/4" = 1'-0"



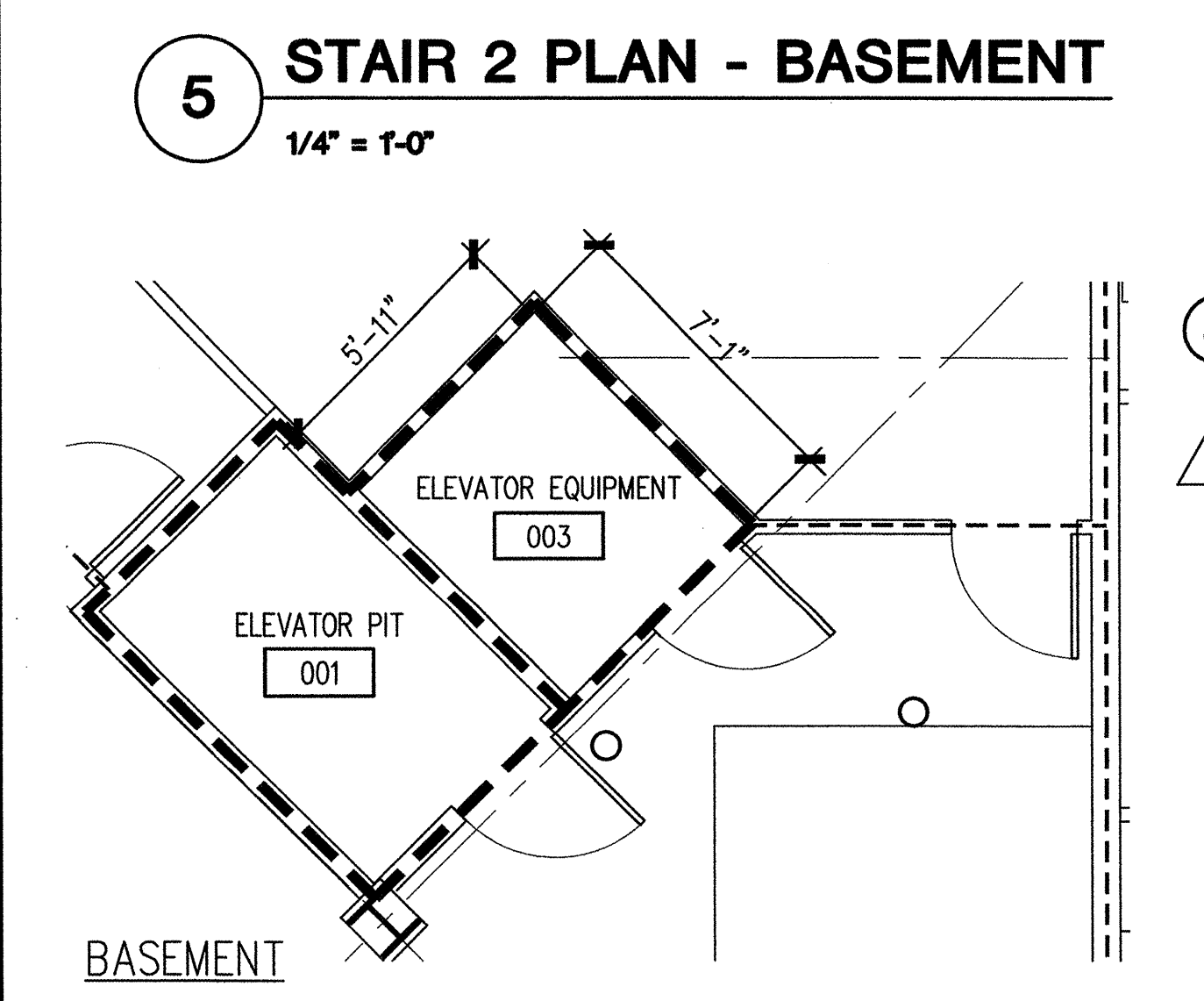
6 STAIR 2 PLAN - 1ST FLOOR
 1/4" = 1'-0"



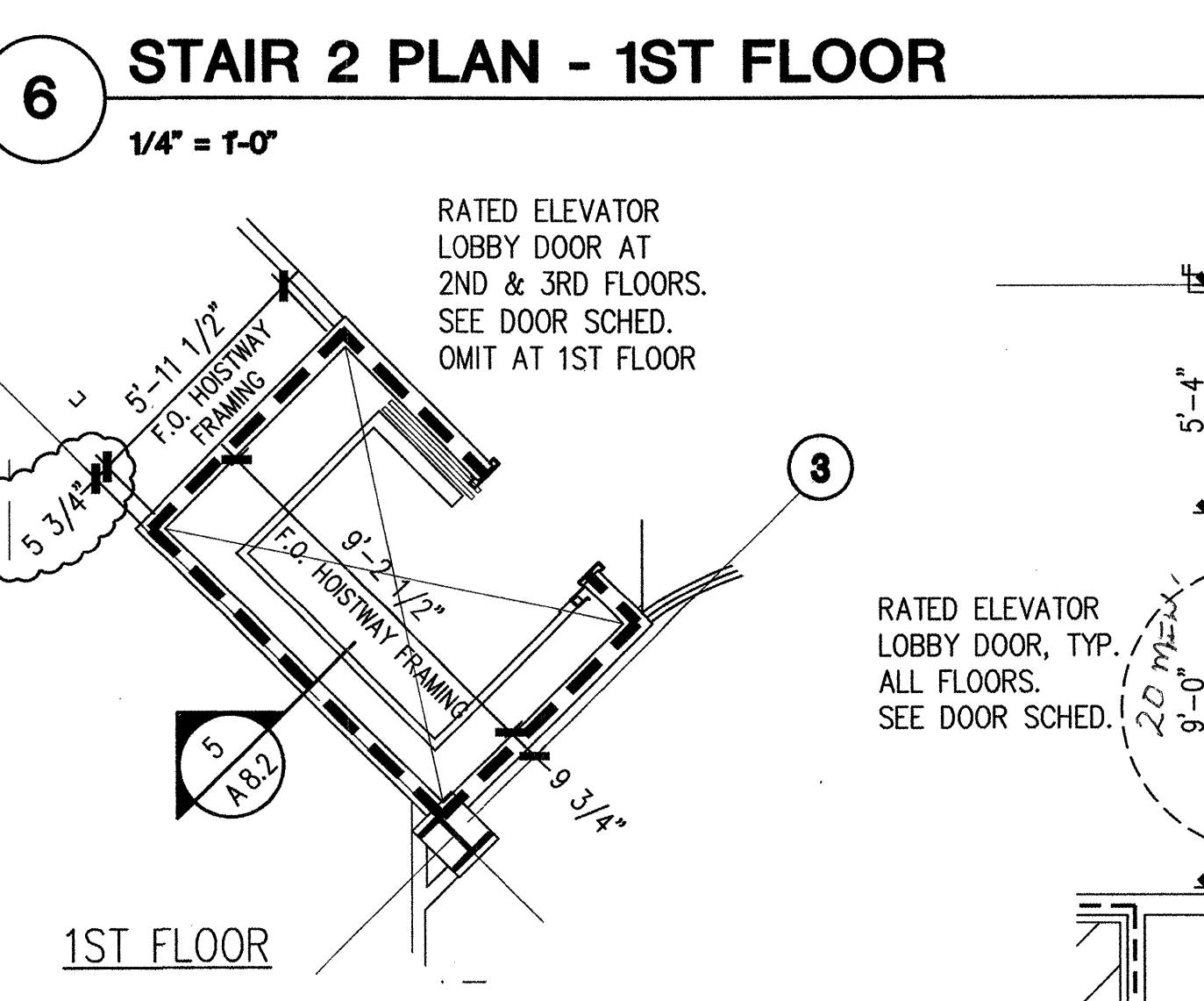
7 STAIR 2 PLAN - 2ND FLOOR
 1/4" = 1'-0"



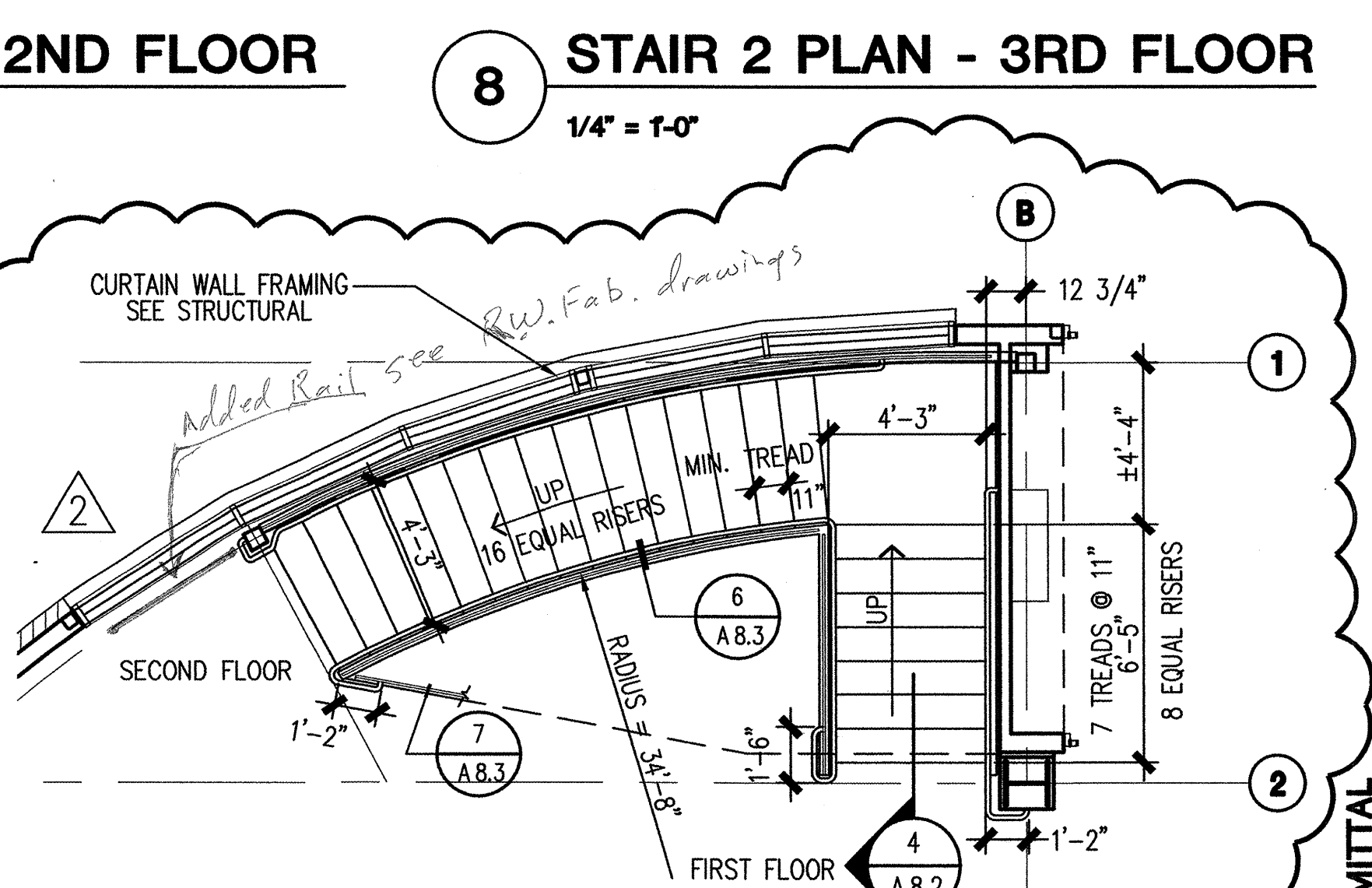
8 STAIR 2 PLAN - 3RD FLOOR
 1/4" = 1'-0"



9 ELEVATOR 1 - PLANS
 SCALE 1/4" = 1'-0"



10 ELEVATOR 2 - PLAN @ BSMNT
 SCALE 1/4" = 1'-0"



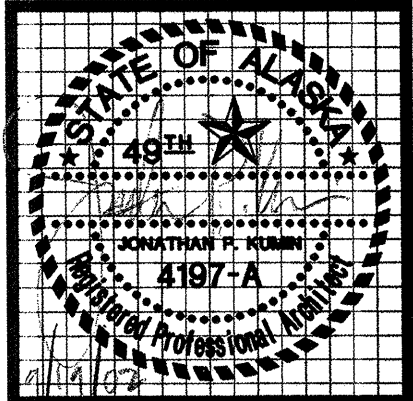
11 STAIR 3 - PLAN
 SCALE 1/4" = 1'-0"

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 TUDOR RD. and TUDOR CENTER DRIVE ANCHORAGE ALASKA

drawn	JS, SR-PL
checked	DB, JS
date	9-17-02
revisions	
1	7-8-02 S&C
2	8-26-02 JS&C
3	9-17-02 100%
job no.	20152
dwg title	STAIR & ELEVATOR PLANS
sheet no.	

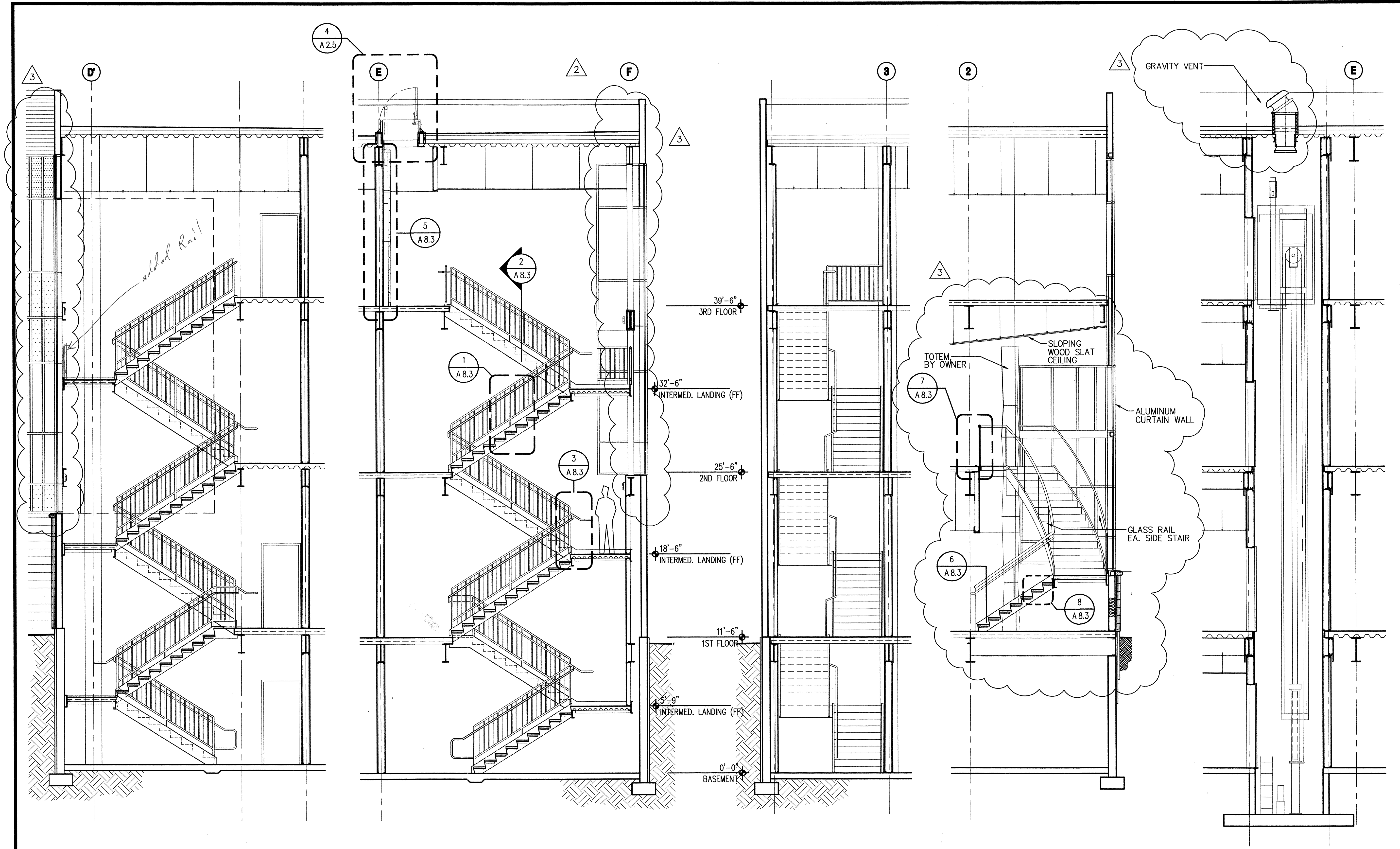
100% SUBMITTAL

A8.1



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 2007 University Ave SE #200
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1 STAIR 1 - SECTION
 1/4" = 1'-0"

2 STAIR 2 - SECTION
 1/4" = 1'-0"

3 STAIR 2 - SECTION
 1/4" = 1'-0"

4 STAIR 3 - SECTION
 1/4" = 1'-0"

5 ELEVATOR SECTION
 1/4" = 1'-0"

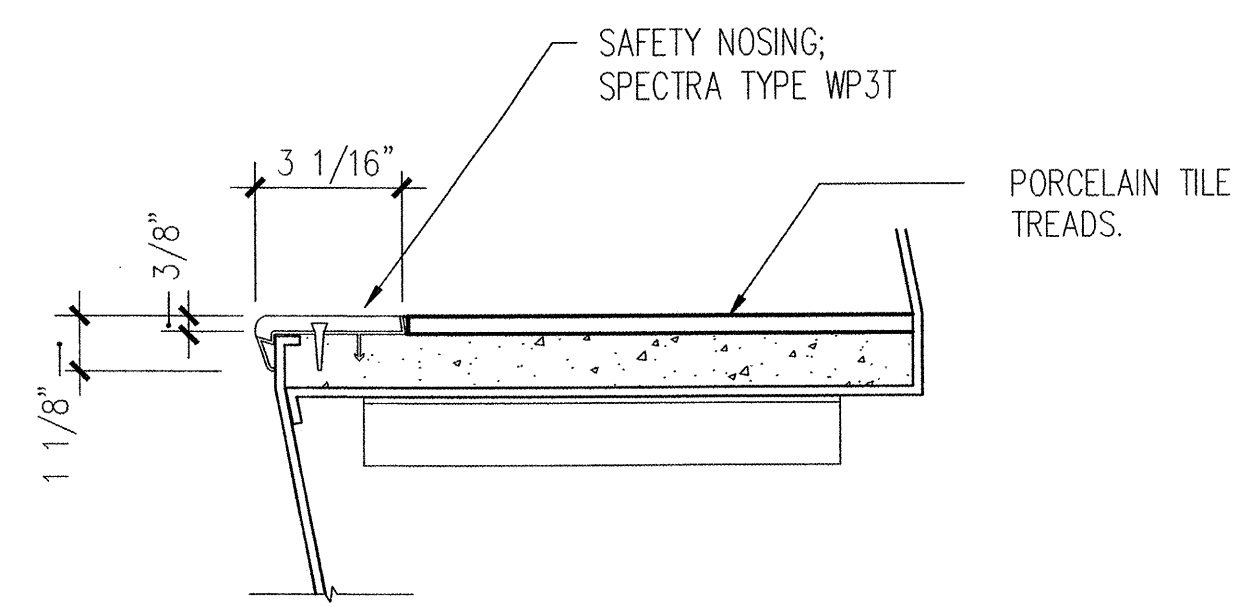
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drawn	JS
checked	DB, JS
date	9-17-02
revisions	
1	6-10-02 F&E
2	7-8-02 S&C
3	8-28-02 95%
4	9-17-02 100%
job no.	20152
dwp title	STAIR & ELEVATOR SECTIONS & DETAILS
sheet no.	

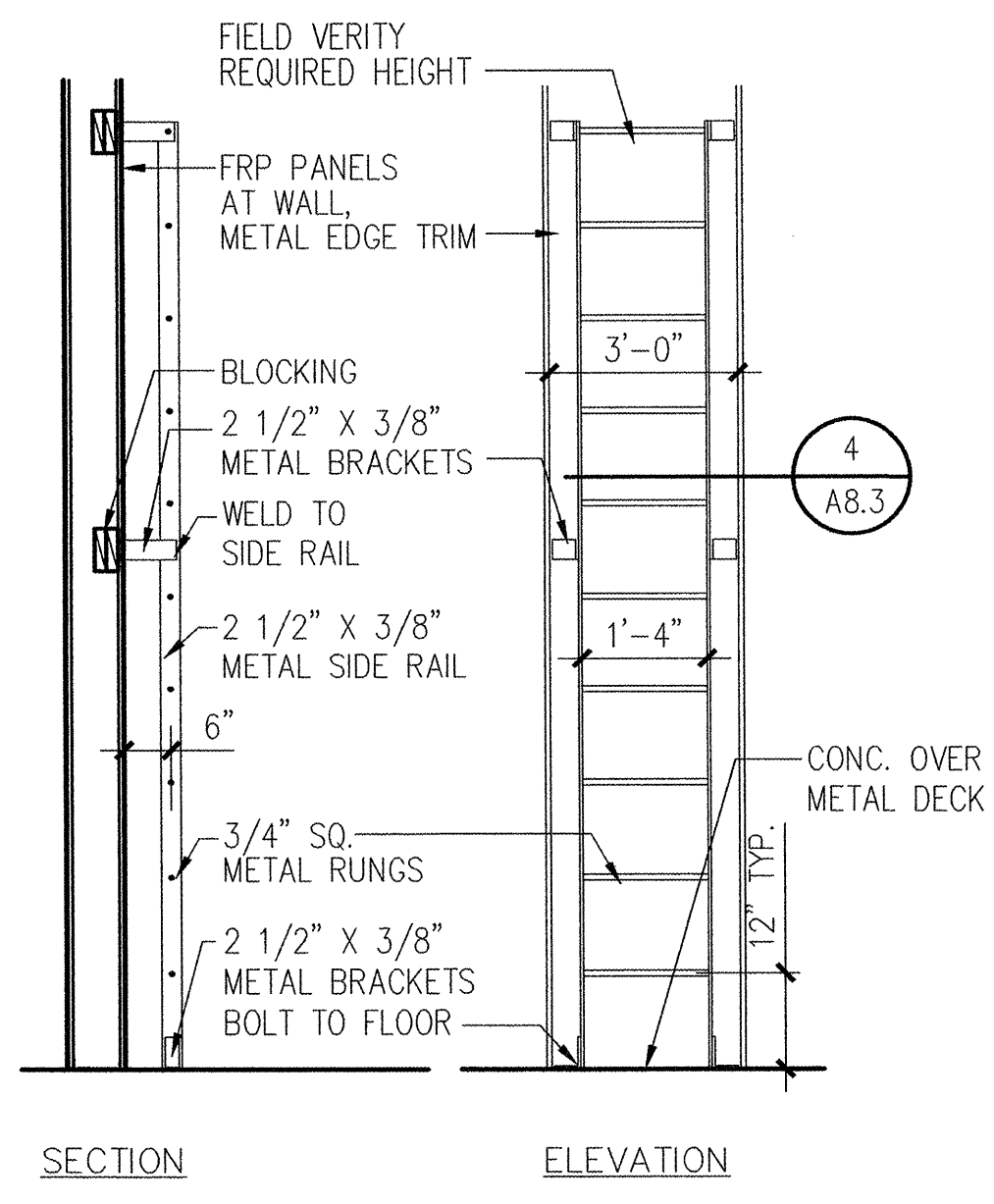
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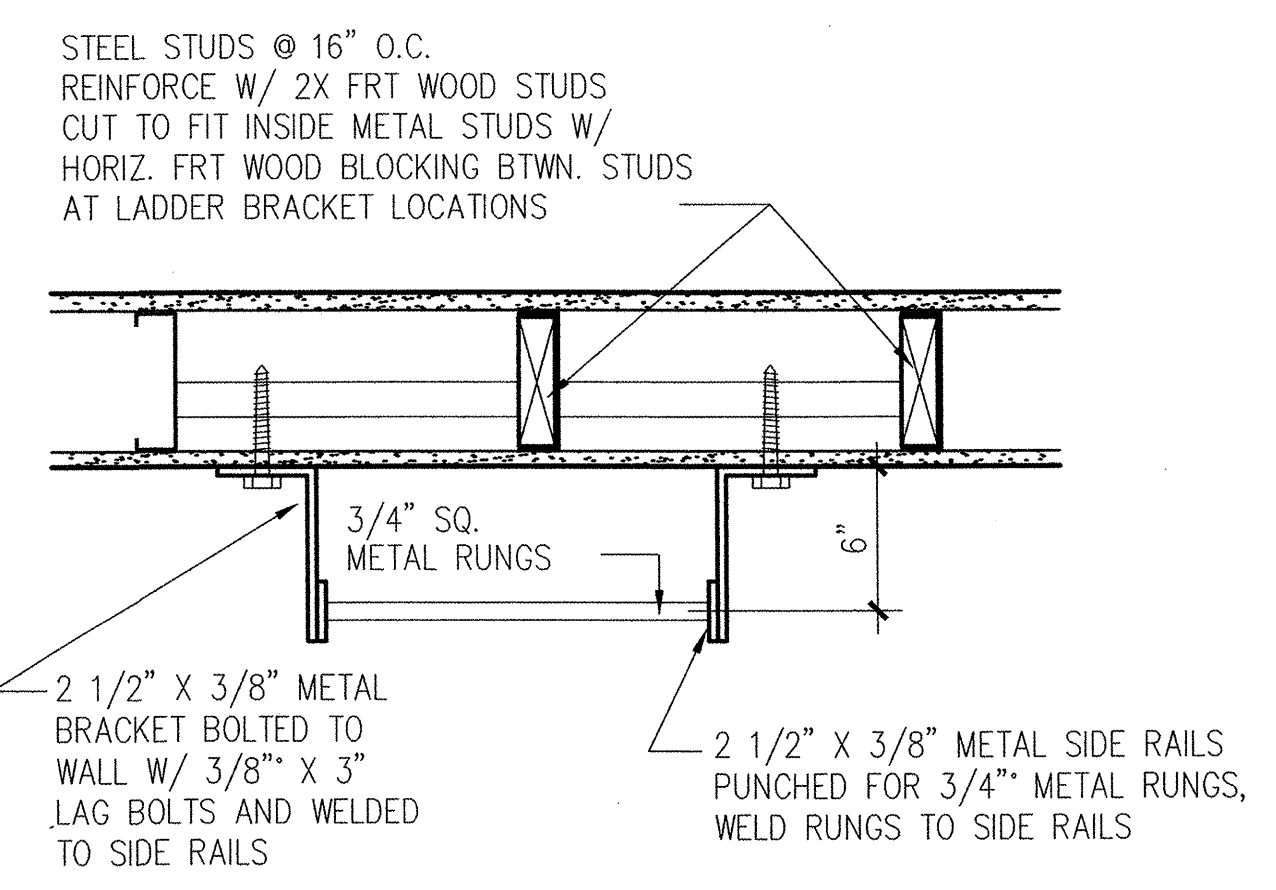
Revised
SKA34-R



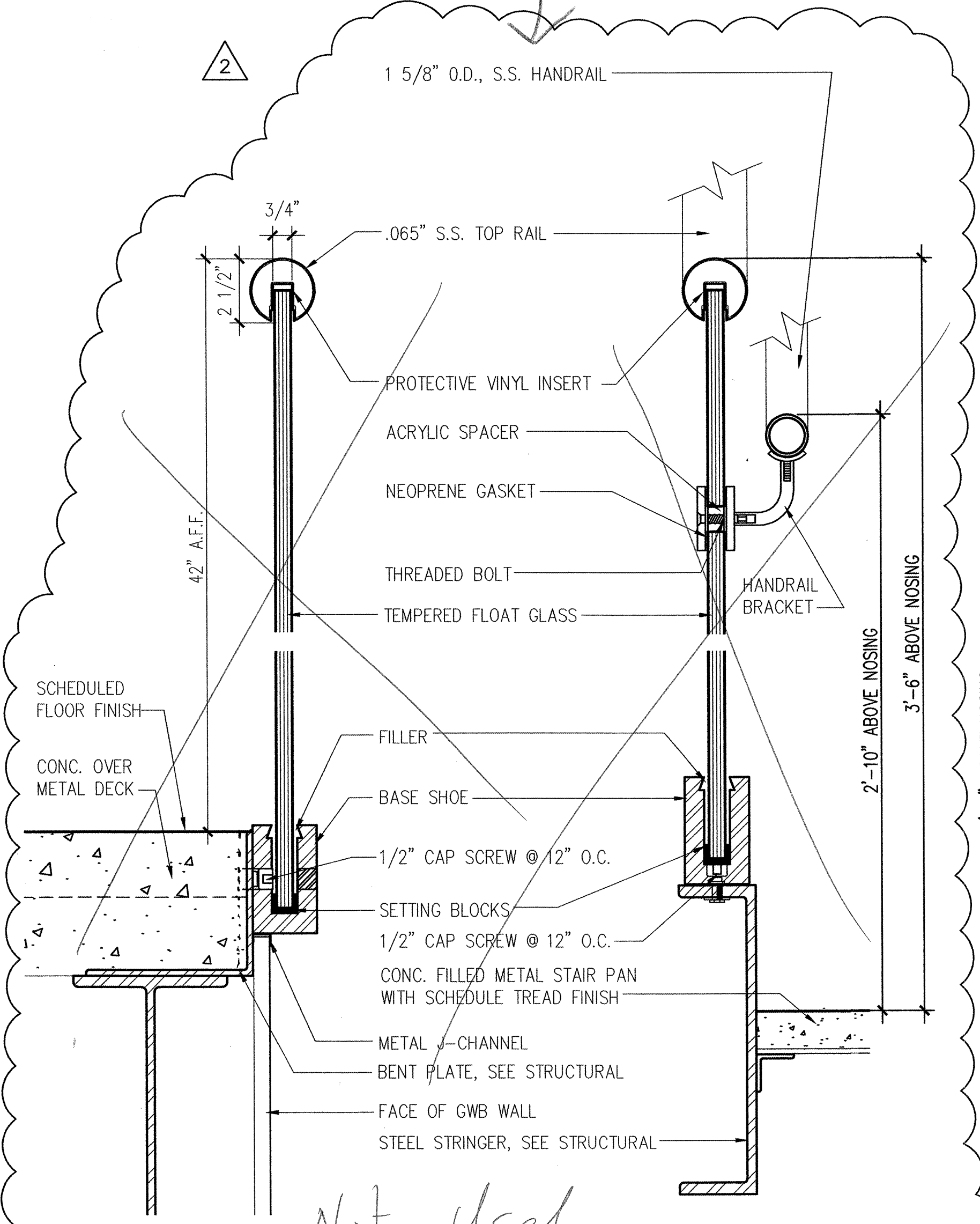
8 STAIR NOSING
3" = 1'-0"



5 STEEL LADDER SECTION/ELEV.
NTS

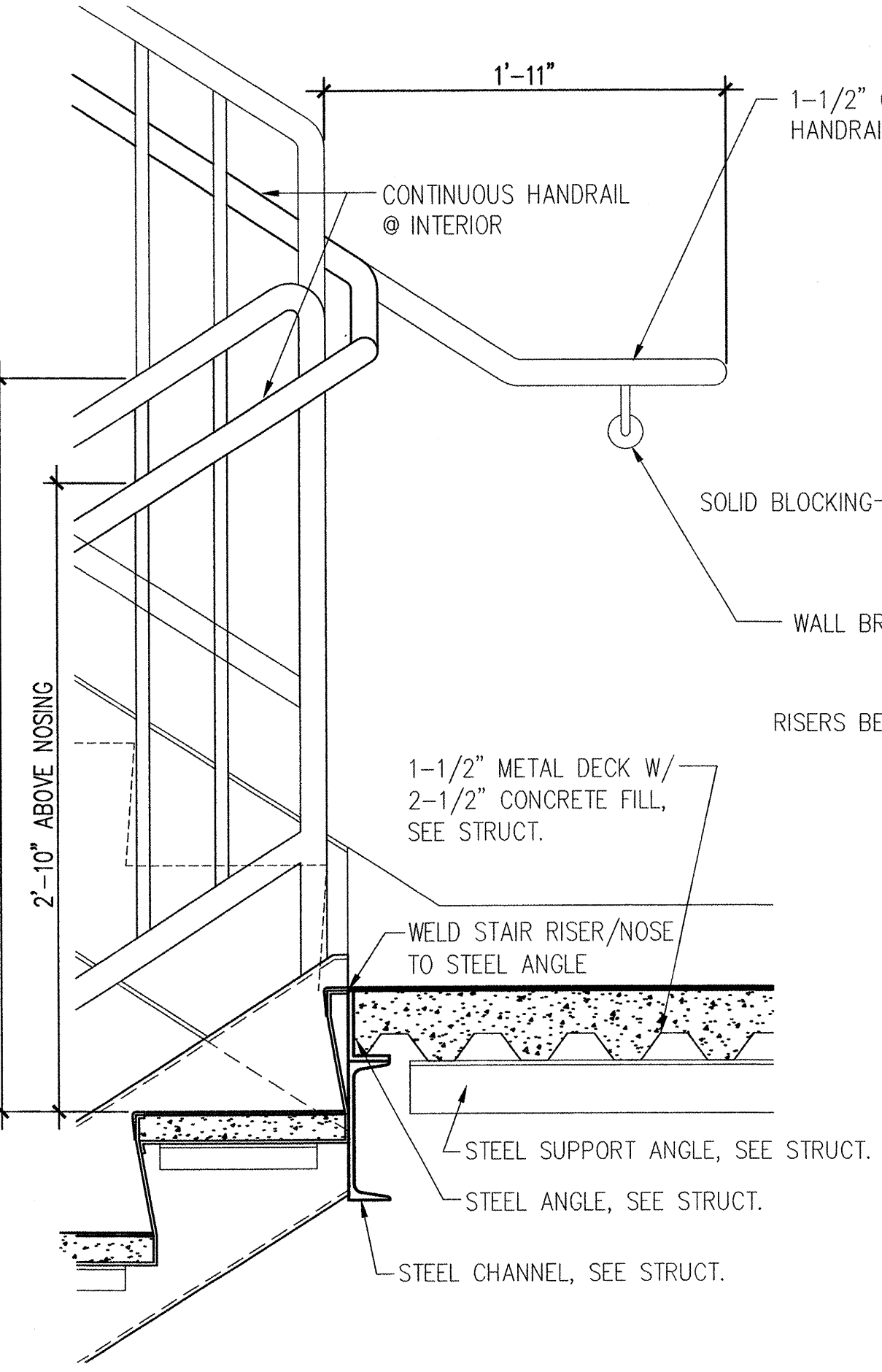


4 STEEL LADDER DETAIL
NTS

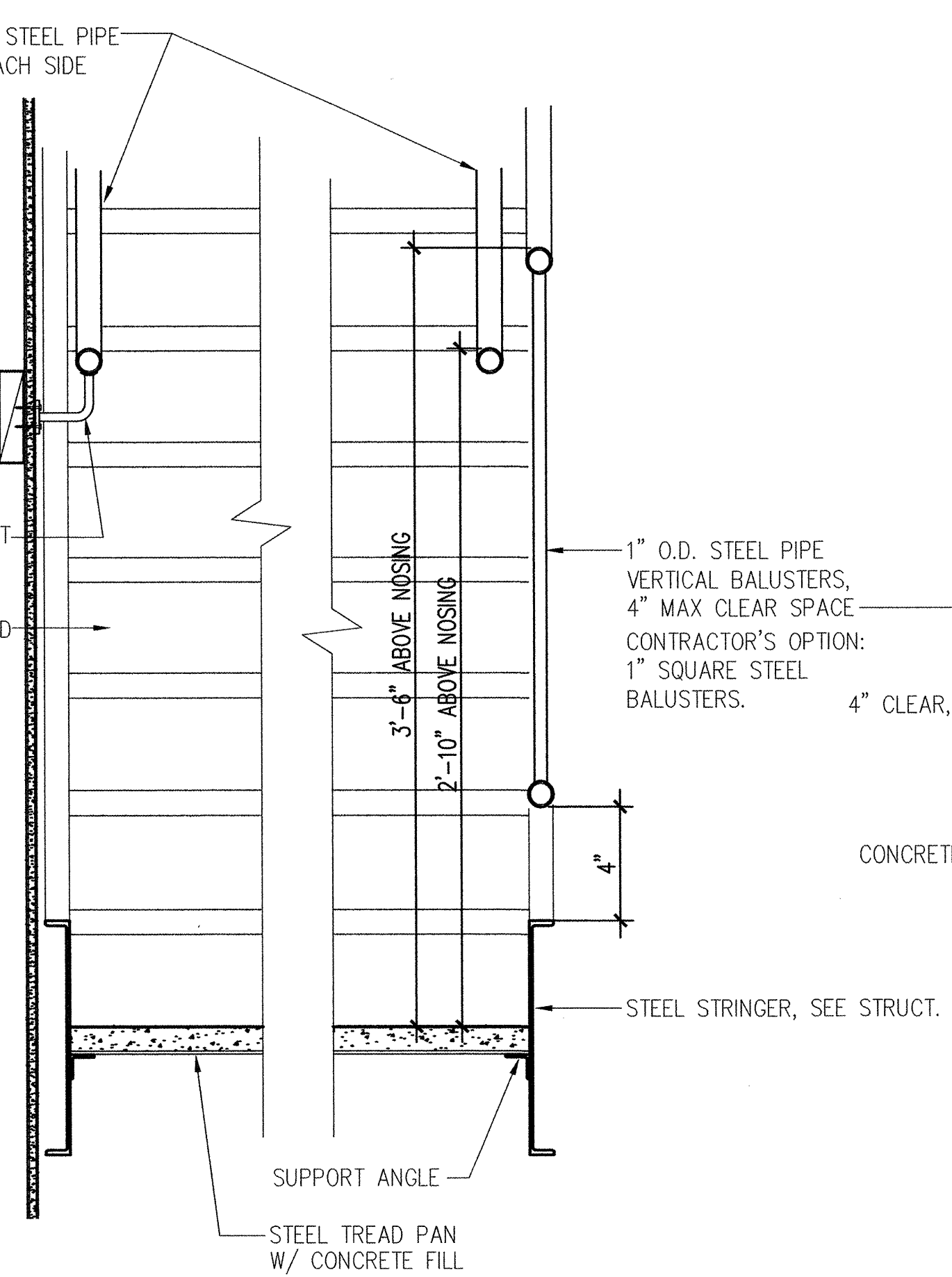


7 GLASS BALCONY RAIL
3" = 1'-0"

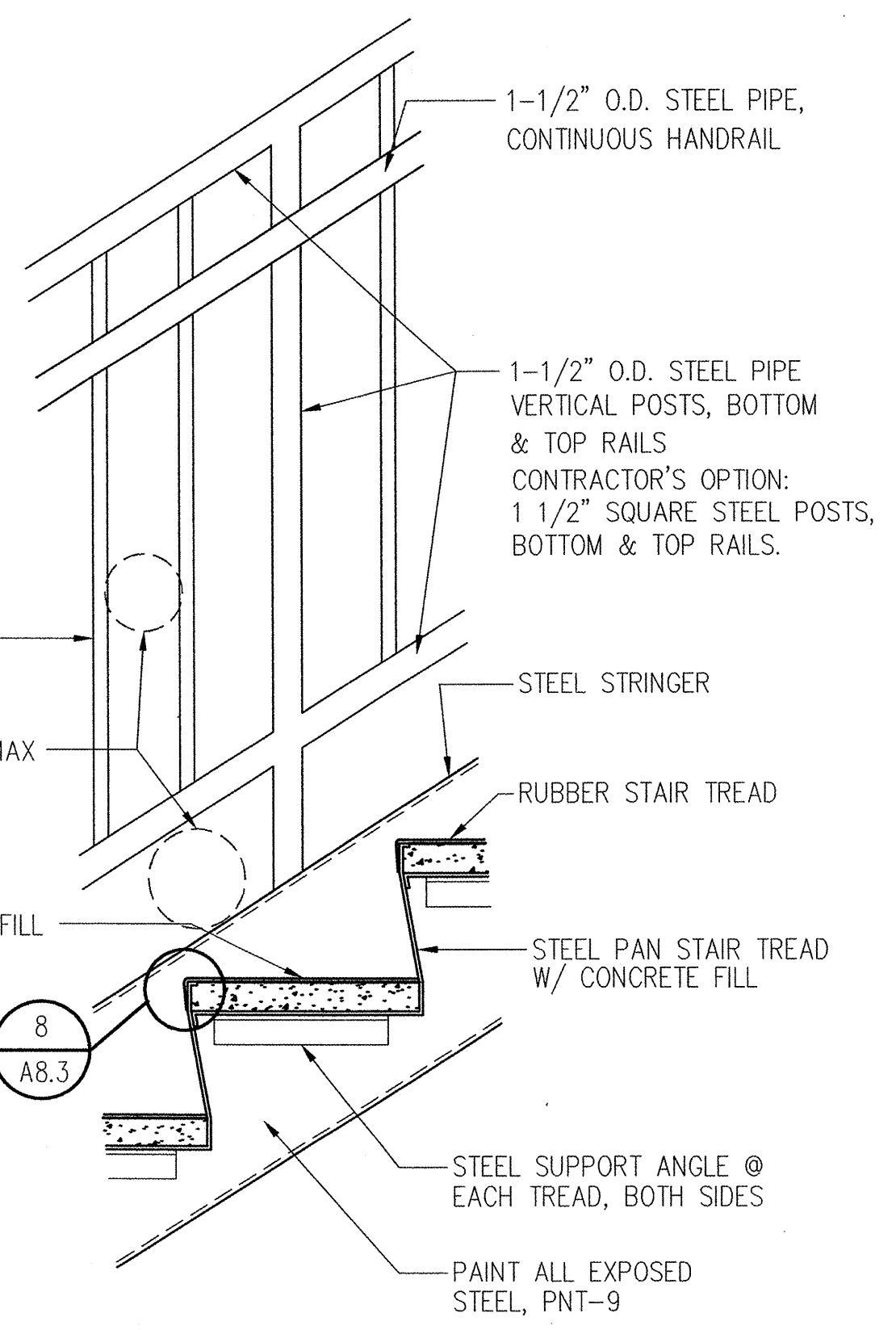
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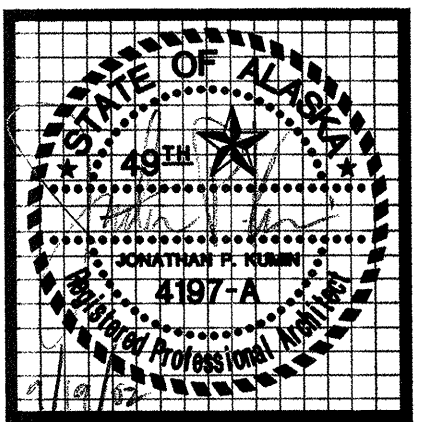
3 STAIR DETAIL AT LANDING
1 1/2" = 1'-0"



2 STAIR DETAIL
1 1/2" = 1'-0"



1 STAIR/BALUSTER DETAIL
1 1/2" = 1'-0"



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Minneapolis, Minnesota 55414
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drawn	J.S.
checked	DB, J.S.
date	9-17-02
revisions	
1	ISSUED FOR CORE & SHELL PERMIT
2	8-28-02 95%
3	9-17-02 100%
job no.	20157
dwg. title	STAIR DETAILS
sheet no.	A8.3

100% SUBMITTAL

DIVISION 1 GENERAL REQUIREMENTS

01000 Project Requirements

- 1.01 Intent
1. Drawings and specifications are intended to provide the basis for the proper completion of the Project suitable for the intended use of the Owner.
2. Coordinate the work of all trades.
3. Verify location of all utilities and existing conditions.
4. Verify dimensions on drawings with dimension in the field.
5. Do not remove or alter structural components without written approval of the Structural Engineer, or Architect.
6. Where any deviation may be necessary from the drawings, obtain written approval from the Architect and/or Engineer prior to proceeding with the work.

- 1.02 Quality Assurance
1. Comply with applicable codes, regulations, ordinances and requirements of authorities having jurisdiction.
2. Provide products of acceptable manufacturers, which have been satisfactory use in similar service for three years.
3. Use experienced installers.
4. Deliver, handle, and store materials in strict accordance with manufacturer's instructions.
5. Engage and pay for testing agencies as required. Coordinate special inspection activities with Engineer and authority having jurisdiction.

- 1.03 Installation
1. Provide products and materials specified. For products requiring color selection, provide Owner's Representative and/or Architect with samples and or accessories in sufficient time to avoid delay progress of work.
2. Inspect substrates prior to installation. Do not proceed until unsatisfactory conditions have been corrected and the substrate is compatible with manufacturer's requirements for proper installation.
3. Take field measurements prior to fabrication where practical. Form to required shapes and sized with true edges, lines and angles. Provide inserts and templates as needed for work of other trades.
4. Install materials in exact accordance with manufacturer's instructions and approved shop drawings.
5. Install materials in proper relation with adjacent construction and proper appearance.
6. Restore units damaged during installation or construction.
7. Refer to additional installation requirements and tolerances specified under individual specifications sections.

- 01010 Summary of Work
1. The Project consists of a three-story medical office building of approximately 55,000 square feet, with a full-basement parking garage.
2. Site location is Lot 1A, Block 1, Tudor Centre Subdivision, Anchorage, Alaska.
3. The work includes a four-story, steel moment frame structure with cast-in-place concrete foundation walls, steel stud exterior walls with CMU and brick veneer, PVC windows, glass and aluminum curtain walls, and membrane roof.
4. The work shall be installed in conformance with all applicable Federal, State and Municipal codes, regulations and ordinances.

- 01020 Project Documents
1. Project specifications are outline in format and are not intended to provide complete details and instructions. Provide necessary materials and labor to complete all aspects of the work.
2. All materials shall be new and unused. Material shall be delivered to the site in original containers. The products specified are intended to indicate the standard of quality required for the project.

- 01040 Coordination
Coordinate activities included in various Sections to assure efficient and orderly installation of each component. Coordinate operations included under different Sections that are dependent of each other for proper installations and operation.
Provide attachment and connection devices and methods necessary for securing each construction element. Secure each construction element true to line, level and plumb.

- 01230 Alternates
Provide price for additional work shown on the drawings and described in the specifications that the Owner may choose to incorporate into the project. Alternates are listed below and shall include all miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the alternate.

- Schedule of Alternates:
1. Lead Sound Barriers: Provide lead sound barriers hung vertically between top of partition and structural deck above to provide an air and sound tight barrier between offices, exam rooms and group rooms in selected areas of the second and third floor as identified by the appropriate wall termination detail as shown on the drawings.
2. High Density Storage System: Provide proposal for high-density mobile file storage system carriages and coordinating metal shelving at File Room 307.
3. Two year landscape warranty: Provide proposal for one-year landscape warranty extension for a total of two-years. Landscape warranty extension is intended to increase survival rate of the plant materials.

01250 Modification Procedures
Clarifications: The Specifications and Drawings are intended to be complementary components of the Contract Documents. Should clarification be required about any items of work or should errors, omissions, or conflicts in the drawings, specifications, or other Contract Documents provided by the Architect or engineer be discovered, the architect or engineer will prepare such amendments or supplementary documents and provide consultation.

Minor Changes in the Work: The Architect may issue supplemental instructions authorizing minor changes in the work, not involving adjustment to the Contract Sum or Contract Time.

Owner-Initiated Proposal Requests: The Architect may, when requested by the Owner, issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or Contract Time. In a timely manner, the Contractor shall submit an estimate of cost necessary to execute the change.

01300 Submittals
Coordinate submittal preparation with performance of construction activities; transmit in advance of performance of related activities to avoid delay. Submit shop drawings and product data for all items to be installed. Submit shop drawings, drawn to scale. Submit samples when required for color selection. All submittals shall be reviewed and stamped by Contractor prior to submittal to the Architect. The Architect will review and stamp each submittal with a mark to indicate action to be taken.

- 01700 Project Closeout
1. Prepare punch list for remaining work for review by Architect.
2. Submit accurate record documents of building and site.
3. Submit operating manuals, maintenance manuals and warranty information.
4. Obtain and submit copy of occupancy certificates.
5. Train Owner's Representative in use of building systems.
6. Remove temporary facilities and provide final cleaning and touch-up.
7. Restore portions of building, site improvements, landscaping and other items damaged by construction operations to original condition.
8. Before requesting inspection for certification of Substantial Completion, complete the following: submit warranties, workmanship bonds, maintenance agreements, final certificates and similar documents.
9. Complete start-up testing of systems.

DIVISION 2 SITE CONSTRUCTION
Provide site development and work as noted and indicated on Civil and Landscape drawings in full conformance with MOA codes and ordinances, and in accordance with terms stipulated in all permits, covenants and resolutions.

02100 Site Preparation
Protect existing trees, vegetation, landscaping materials, buffers, easements, and site improvements not scheduled for clearing that might be damaged by construction activities. Clear and grub site of stumps, vegetation, debris, and rubbish. Provide temporary erosion control, siltation control and dust control. Provide temporary protection of adjacent property and structures. Provide removal and legal disposal of cleared materials not to be stockpiled. Verify all utilities with local serving agencies or companies.

02200 Earthwork
Provide excavation, filling, compaction and grading for buildings, site improvements and utilities. Provide suitable materials for sub base, drainage fill, and backfill for slabs, pavements, and improvements. Provide additional materials from offsite as required. Provide removal and legal disposal of excavated materials. Provide erosion control and control of runoff during earthwork operations.

See Civil and Landscape drawings for additional Division 2 work.

DIVISION 3 CONCRETE
03300 Cast-In-Place Concrete
Provide cast-in-place concrete as indicated on the structural and architectural drawings.

03390 Concrete Curing
Concrete hardening, sealing, and dustproofing compounds:

1.01 Basement Vehicle Traffic Areas: Chemical hardener, clear, VOC compliant, magnesium fluosilicate chemical hardener. Five year warranty, provide two coats, minimum. "Lapidolith" by Sonneborn, or equal.

1.02 Basement Finish Floor Areas: Clear, VOC compliant chemical hardener. Five year warranty against dusting. Provide two coats, minimum. "Kure-N-Harden" by Sonneborn, or equal.

03400 Pre-Cast Concrete
Provide Pre-Cast Concrete sills in profiles as shown on the architectural drawings. Concrete shall have minimum 28-day compressive strength of 4,000psi. Provide (2) #4 reinforcing bars conforming to ASTM A615, Grade 60 the length of the unit. Surface shall be troweled smooth, sloped to drain. Color: Standard Grey.

See structural drawings for additional Division 3 work.

DIVISION 4 MASONRY
04200 Masonry Units
Provide concrete masonry units, mortar, fasteners, seismic ties and other hardware required for complete installation as indicated on structural drawings.

1.01 Split-Face Finish: Standard aggregate, color: 1% #5447, Buff.

1.02 Ground-Face Finish: 3/8-inch standard aggregate, color: 1% #5447, Buff.

04810 Thin Brick Veneer

1.01 Tile Products: Smooth, unglazed, square-edged flat tile, 1/2" thick as manufactured by "Endicott Clay Products". Provide colors and pattern as indicated on the drawings.

1.02 Setting Materials: Install per latex thin-set mortar installation recommendations of Laticrete International, Inc. Thin-Set Latex Adhesive Mortar System.
A) Latex Admix: Laticrete #4273 latex admix, or approved equal.
B) Latex Thin-Set Mortar: Laticrete "Floor'N Wall Thin-Set", or approved equal dry set mortar.

1.03 Grouting Materials: Latex-Portland Cement Grout in compliance with ANSI A118.6. Provide sanded grout mixture for joints 1/8-inch and wider. Laticrete 500 series with Laticrete 1776 grout admix, or approved equal.

1.04 Elastomeric Sealants: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements of division 7 Section 07900 "Joint Sealers".

DIVISION 5 METALS
05400 Cold-Formed Metal Framing
Interior Partition Framing: Provide 0.027 inch minimum thickness or as required for stud length and actual loads for all interior partitions.

Exterior Wall Framing: See structural drawings.
05500 Miscellaneous Metal
All exterior miscellaneous steel shall be hot-dipped galvanized after fabrication. See structural drawings for additional requirements.

05510 Metal Stairs
Provide steel framed stairs designed and fabricated to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections.

05520 Pipe and Tube Railings
Handrails and guardrails shall be designed to resist horizontal loads applied at the top rail at 50 pounds per linear foot and shall meet OSHA requirements and comply with ASTM E-985.

05521 Tempered Glass Railing Assemblies
Railing assembly shall be glass baluster system consisting of structural glass panels affixed into base section and providing structural support for top metal rail attached to glass panels. Manufacturer: Morse Industries, or approved equal.

Railing assembly includes the following components:
A) Base Section: Extruded aluminum shoe molding for affixing glass baluster panels.
B) Base Section Cladding: Provide sheet metal cladding to cover exposed base sections.
C) Top Rail: Fabricate from stainless steel, 2-1/2 inches diameter with internal channels to receive glass baluster panels.
D) Glass: Fully tempered glass complying with ASTM C1048, Kind FT and meeting requirements of ANSI Z97.1 and CPSC 16 CFR to qualify as safety glass.

Thickness: 3/4 inch. Style: Clear glass.

E) Fittings: Provide end caps, elbows, angles, tees, radiuses, wall returns, collars, wall, floor flanges, and other flush fittings as required for connecting, joining, and anchoring tubular metal railing components.
F) Accessories:
1. Setting Blocks: Resilient EPDM blocks fitted into base section to support and protect glass panels.
2. Top Rail Inserts: Vinyl insert fabricated from rigid PVC for protecting glass panel inserted into top rail.
3. Base Section Filler: Expansive cement or non-shrink, non-metallic grout.

See structural drawings for additional Division 5 work.

DIVISION 6 WOOD AND PLASTICS
06200 Finish Carpentry
Interior standing and running trim for opaque finish. Provide quality softwood with a painted finish.

Trim for transparent finish shall be maple as listed in quality standard AW section 300, custom grade. Wood veneer panels shall be maple to match trim. Back-out or groove backs of flat trim members, except where members have exposed ends.

06402 Interior Architectural Woodwork
Provide plastic laminate-clad cabinets complying with AWI Section 1600B, custom grade. Cabinets shall have flush overlay design. Plastic laminate cabinets shall use vertical grade laminate on exposed surfaces and open shelving and cabinet liner for semi-exposed surfaces.

Where indicated, provide maple veneer cabinets, complying with AWI Section 1600A, custom grade. Cabinets shall have flush overlay design. Wood veneer cabinets shall be of clear hard maple panel products as listed in quality standard AWI, Section 200, custom grade.

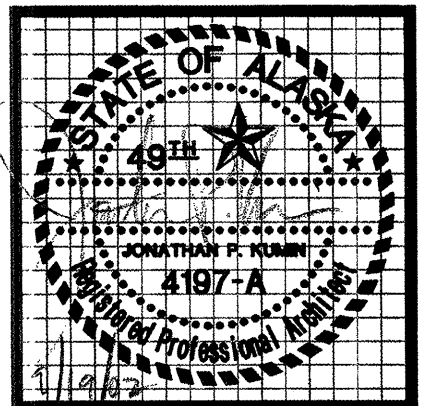
Provide plastic laminate-clad countertops complying with AWI Section 400, custom grade. Typical countertops shall be of horizontal grade plastic laminate with wood-look through-grain 3 mm PVC edge banding. At toilet room countertops, Sterile room countertops and other locations where indicated, provide post-forming laminate with waterfall front edge.

Where indicated, provide 1/4" thick solid surfacing, Corian by DuPont. Material: Homogeneous filled acrylic; not coated, laminated or of composite construction; meeting ANSI Z124.3 & .6, Type Six, and Fed. Spec. WW-P-541E/GEN. Form joints between components using manufacturer's standard joint adhesive.

Hardware for cabinets shall be as follows:
Hinges-Heavy-duty concealed European style of all steel construction, with self closing feature and adjustable both vertically and horizontally.
Catches - Magnetic Type - 7 lb. Pull rating with metal base plate and plastic housing to match cabinet interior.
Catches - Spring-touch type - Provide steel pressure catches for both doors and drawers on base cabinets in Oral Surgery rooms.
Drawer slides-Provide zinc finish full-extension slides with 100 lb. load rating with positive in and out stops, stay close detent and steel ball bearings.

Work surface supports - Countertop support brackets shall be constructed of 16 gauge 1-1/2" tube steel (18" x 21' legs), with welded construction, powder coated to match cabinet interiors.
Shelf Support-Nickel plated steel "L" shaped clips inserted into predrilled 5mm holes 32mm on center.
Brackets and Standards - Heavy duty type, anochrome steel finish.
Wire Grommets - Provide 2" plastic TG "flip-top" grommets as manufactured by Doug Mockett and Company, Inc.
Trash Grommets - Provide round trash grommets, 6" dia. and 2" deep, TM-1 as manufactured by Doug Mockett and Company, Inc.
Computer door grilles - Provide Air Vent Grommet Cover, 4" dia for vertical use in computer doors.
CPU Holder - Provide stationary holder completely adjustable both vertically and horizontally.
Keyboard trays - Provide adjustable tray with fully articulated arm designed to mount and store under counter, with knee space clearance below.

Provide all required brackets, bracing for open countertops, and all other accessories required for finished casework. Colors for hardware and accessories shall be chosen from manufacturer's full range of standard colors.



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drawn JS, SZ
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revisions
1 9-17-02
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dwg title
SPEIFICATIONS
sheet no.
A9.1
100% SUBMITTAL

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07160 Cementitious Waterproofing

Provide waterproof, cement-based coating for exterior, below grade concrete foundation walls and retaining walls; "ThoroSeal" foundation coating, or equal. Foundation coating must be modified with Acryl 60 to achieve manufacturer's listed performance properties.

07190 Water Repellents

Provide penetrating water repellent treatment for concrete block, pre-cast concrete sills, and porous masonry surfaces.

1.01 Thin Brick Veneer: Single-component, water-based, VOC-compliant, blended silane/siloxane penetrating sealer, minimum 12% total solids and active ingredients by weight. "Enviroseal Double 7 for brick" by Hydrozo, or equal.

1.02 Concrete block and Pre-Cast Concrete Sills: Single-component, water-based, VOC-compliant, blended silane/siloxane penetrating sealer conforming to water repellency test ASTM C-140. Minimum 18% active ingredients by weight, non-yellowing. "Enviroseal Double 7 H.D." by Hydrozo, or equal.

1.03 Ground-Face CMU: Provide top coat, minimum 25% non-yellowing, acrylic solids curing compound; conforming to ASTM C-309 and ASTM C-1315, Type I, Class A. "Lumised Plus" as manufactured by L&M Construction Chemicals, or equal.

07210 Building Insulation

Provide building insulation as described below.

1.01 Foundation Insulation: Provide Type IV, 25 PSI multi-cellular, high density expanded polystyrene with hard skins. Comply with ASTM C-578. Thermal resistance: R-5.0 per inch. See drawings for total thickness and installation.

1.02 Building insulation: Provide unfaced glass fiber batts designed for installation between framing as manufactured by Certainteed Corp, Owens/Corning. In all exterior walls, provide full depth R-19 for 6-inch walls; friction fit. Provide sound attenuation insulation in interior partitions as shown on the drawings of R-11 unfaced glass fiber batts. Fully insulate all exterior jambs and heads.

1.03 Sill Seal Insulation: Provide Styrofoam Sill Seal by Dow Corp., and install per manufacturer's recommendations on top of the foundation wall beneath the sill plate.

1.04 Roof insulation: Provide Type II, tapered expanded polystyrene (EPS) insulation complying with ASTM C-578. Density: 1.35 lb/cu-ft. Thermal resistance: R-4.4 per inch. Minimum insulation value shall be at least R-30 at point of minimum insulation thickness.

1.05 Foamed-in-place insulation: For all miscellaneous construction openings; including shim spaces, annular openings around penetrations through exterior or acoustic walls, provide one-component urethane, curing by reaction with atmospheric water vapor, not requiring restraint for durability. Use only where isolated from inhabited space by at least one layer of gypsum board or other acceptable thermal barrier.

07260 Vapor Retarder

Provide Polyethylene Vapor Retarder: ASTM D4397, 10.0 mils thick with a maximum permeance rating of 0.13 perms. Film to be clean, clear, and manufactured of virgin polyethylene. Provide staples, fasteners, sealing tape, and cements as recommended by vapor retarder manufacturer. Tape shall have permeance rating equal to that of vapor retarder. Tape over staples, penetrations, and laps. Install on warm side of insulation in exterior walls, ceiling, and roof to provide a continuous envelope throughout the building. Provide vapor retarders continuous between interior partitions and exterior walls. Vapor retarder must be installed prior to erection of partitions abutting exterior walls and roofs.

07411 Preformed Roof and Wall Panels

1.01 Canopy Roof Panels: "curved select seam" metal roof panels with narrow batten, by IMSA Building Products. Base metal material: steel conforming to ASTM A792 "Zincalume", minimum 40,000 psi, thickness 24-gage. Finish: "ZACTique II" treatment, providing a darker weathered appearance, submit color samples. Provide narrow batten panels consisting of snap-on batten caps 3/8-inch wide and 1-inch high spaced 16-1/4 inch on center and a nominal panel width of the same. Panels shall be factory corrective-leveled. Panels shall be curved to fit canopy profile as shown on drawings. Install panels in continuous length from headwall to eave over rubberized asphalt membrane (W.R. Grace "Ice and Water Shield") over 1/2-inch pressure treated plywood over metal roof deck.

1.02 Metal Wall Panels: "Prestige" series, concealed fastener metal wall panels, by IMSA Building Products. Base metal: Steel conforming to ASTM A-792, minimum strength yield 33,000 psi, thickness 22 gage with "Zincalume" protective coating conforming to ASTM A-792, AZ50. Finish: "ZACTique II" treatment, providing a darker weathered appearance, submit color samples. Configuration: PS-12, 1-1/2" high, 12 inches wide, smooth finish. Provide all flashings, fasteners and profile closures per manufacturer's recommendations.

07540 Thermoplastic Membrane Roofing

Provide sheet membrane roofing and base flashing that are watertight; will not permit the passage of liquid water, and will withstand thermally induced movement and exposure to weather without failure. Roofing system shall be formulated to withstand uplift forces associated with 110 MPH, exposure B. Roof system components include:

1.01 Roof Board: glass mat facings front and back, embedded into a water resistant and silicone-treated gypsum core, "Dens-Deck" by Georgia Pacific, or equal.

1.02 Vapor Retarder: Continuous 10-mil polyethylene sheet, install on warm side of insulation, see 07190.

1.03 Roof Insulation: Tapered type II expanded polystyrene (EPS) insulation board, minimum 1" thick with top surface cut to a uniform continuous slope for roof drainage. See 07210. Stagger seams. Minimum R-value = R-30.

1.04 Recover Board: High-density non-asphaltic board, compatible for use under mechanically fastened single-ply roofing system; "Celotex" high-density fiberboard, or equal.

1.05 Roof Membrane: 60 mil (1.5mm) thick, heat-weldable, mechanically fastened, PVC (Polyvinyl Chloride) membrane with an integral polyester scrim reinforcement complying with ASTM D-4434, Sarnafil, or equal. Provide all related accessories required for complete installation, including; fasteners, adhesive, lap sealant, seam plates and flashing, as recommended by manufacturer for substrate and project conditions.

1.06 Walkway Pad: Provide durable, traffic-bearing, heat-weldable rooftop walkway pad compatible with roofing system. Provide at locations shown on the drawings.

07620 Sheet Metal Flashing and Trim

Provide miscellaneous flashing and trim as required for metal counter and base flashing, metal trim, parapet coping, and sheet metal accessories. Provide zinc-coated steel: commercial quality with 20 percent copper, G90 hot-dip galvanized, ASTM A526 except ASTM A527 for lock-forming. All exposed roof and fascia flashing shall be pre-finished with a premium fluorocarbon coating with Kynar 500 Resin. Sheet metal parapet caps to be lapped and hemmed to form interlocking joint. For metal drip edge provide minimum 24-gauge brake-formed to dimensions indicated in nine-foot to ten-foot lengths and with all exposed edges hemmed. Provide fasteners as recommended by metal sheet manufacturer, and provide for separation of metal from incompatible metal with a bituminous coating or other permanent separation.

07720 Roof Scuttle

1. Roof Hatch: Bilco "type F", single-leaf roof access hatch with integral insulated curb. Size: 4-foot by 4-foot.
2. Ladder Safety Post: "Ladder Up" safety post, model LU-1 as manufactured by the Bilco Company. Install on fixed ladder below hatch cover. Post shall be telescoping tubular section that locks automatically when fully extended.

07840 Firestopping

Provide through-penetration firestop systems that are produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of assembly penetrated. Provide through-penetration firestop systems with F and/or T ratings as determined per ASTM E 814, but not less than that equaling fire-resistance rating of constructions penetrated. Provide systems that are compatible with one another, with the substrates forming openings, and with the items penetrating through-penetration firestop systems.

07900 Joint Sealants

Caulk and otherwise seal all openings and joints as required to obtain a water-tight building including; sill plates, windows, doors, roof openings, penetrations through exterior walls, and where dissimilar materials join. Exterior products must be suitable for cold weather applications. Caulk all changes of material at exterior. Color to match adjacent materials.

1.01 General Purpose Exterior Sealant: Polyurethane; ASTM C 920, Type M, Grade NS, Class 25. Use for control, expansion, soft joints in masonry, joints between concrete and other materials, joints between metal frames and other materials, and other exterior joints for which no other sealant is indicated.

1.02 General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C 834m Type OP, Grade NF single component, paintable. Use for interior wall and ceiling control joints, joints between window frames and wall surfaces and other joints for which no other type of sealant is indicated.

1.03 Bathtub/Tile Sealant: White silicone; ASTM C 920, Type S, Grade NS, single component, mildew resistant. Use for joints between plumbing fixtures and floor and wall surfaces, joints between countertops and wall surfaces in wet areas.

1.04 Acoustical sealant: Butyl or acrylic; ASTM C 920, Grade NS, Class 12-1/2, Non-curing, non-drying acoustical sealant by Tremco, or approved equal.

DIVISION 8 DOORS & WINDOWS

08110 Steel Doors and Frames

Provide interior metal doors ANSI/SDI 100, Grade III, heavy duty, model 3 or 4, minimum 18-gauge cold-rolled sheet steel faces, Curries model 707-N, or equal. For exterior metal doors, provide ANSI/SDI 100, Grade III, extra heavy duty, model 4, minimum 16-gage galvanized steel faces. Exterior doors shall be insulated and thermally broken. Provide U.L. labeled doors at fire rated assemblies, where indicated. All doors to be shop primed; strike jambs to be prepared for and provided with three rubber silencers for field installation.

Typical Interior Metal Frames: Provide metal frames for interior doors and lites formed from cold rolled sheet steel conforming to ASTM-A366. Frames shall be from Timely Industries, or equal. Frames shall be 18-gauge steel with TA-8 standard steel casing. All frames shall have 14 gauge hinge-reinforcement plates with extruded tapped holes, for a minimum 3/16" tread penetration. Provide factory finish, impact-resistant, polyester baked enamel, color: as shown on the drawings.

Hollow metal frames for steel doors, doors over 36-inch in width, at exterior locations, and at concrete walls: Provide 16-gauge cold-rolled steel, Curries or equal. Frames shall be mitered, coped with welded corners. Exterior frames shall be galvanized thermal break with closed cell polyethylene foam.

All doors and frames shall be reinforced for hardware. Exterior doors, frames and fasteners shall be galvanized. Provide one-year warranty.

08210 Flush Wood Doors

Provide flush solid core wood doors 1 3/4-inch thick, 7-ply construction, AWI custom grade, plain sliced white maple with stain grade faces for transparent finish, Vancouver series 520P, or equal. Provide fire-rated wood doors per ASTM E-152, which are labeled for ratings indicated by UL. Faces and grade to match non-rated doors. Provide manufacturer's standard laminated edge construction. Shop seal faces and edges for transparent finish with stain coat (penetrating stain) and apply first finish coat (vinyl sealer), second and third finish coats (catalyzed polyurethane) to be applied in the field. Protect doors during transit and storage per NWWDA. Touch-up or refinish doors in the field as necessary.

08360 Sectional Overhead Door

Insulated steel sectional overhead door, "Thermacore model 495" by Overhead Door Company, or equal. Size and quantity as indicated on the drawings.

Sections shall be 2" thick, thermal break construction, 26 gauge galvanized steel sections with solid foamed-in-place polyurethane core (17.5 R-value). Door finish: flush wood grain exterior face, flush pebble grain interior face with two-coats baked acrylic coating, both sides. Hardware: 3" standard-lift track, continuous angle mount, double end stiles and counter balance torsion spring. Weatherstripping: Bulb-type weather seal at sill, EPDM seal between sections, SEALEZE D445 therm"L" brush at jambs, D480 at head.

Operation: Heavy-duty belt driven trolley type, 1/2 HP, 115V., single-phase electric operator. Pneumatic safety edge to reverse, CPS-LNF photo eyes at threshold. Provide "Door King" model 1520 key card system and mounting pedestal for entry control, and preformed loop detector for exit control. Provide adjustable timer for door to close.

08410 Aluminum Entrances and Storefronts

Provide aluminum entrance materials based upon the series 351, medium stile doors as manufactured by CMI Architectural Products, Inc.

1.01 Air Infiltration: Shall be tested in accordance with ASTM E 283 at a pressure differential of 1.567 psf. A single 3-foot by 7-foot door and frame shall not exceed .50 CFM per lineal foot of crack. A pair 6-foot by 7-foot shall not exceed 1.0 CFM per lineal foot of crack.

1.02 Material: Extrusions shall be AA 6063-T5 alloy and temper (ASTM B221 alloy G.S. 10A-T5). Extrusion walls shall be a minimum 0.125-inch thick. Fasteners shall be stainless or zinc-plated steel in accordance with ASTM A 164. Glazing gaskets shall be EPDM. Doorstop weathering shall be wool pile and easily replaced by use of snap-in door stops.

1.03 Finish: An Architectural Class I anodic coating with integral color in accordance with the Aluminum Association Standard AA-M12 C22 A44 designated as "champagne". Finish and color shall match curtain wall.

08560 PVC Windows

Extruded high impact rigid polyvinyl chloride (PVC) with multi-chambered frame. Windows shall conform to the requirements of AAMA/NWWDA 101/A.S. 2-97. All corners shall be mitered and fusion welded. Size and color as indicated on the drawings. Performance requirements as outlined below:

1.01 Air Infiltration: Air infiltration shall not exceed .01 CFM/sq ft. at 1.57psf when tested in accordance with ASTM E283.

1.02 Water Resistance: There shall be no leakage when unit is tested in accordance with ASTM-E547-96 and ASTM E331-96.

1.03 Thermal Performance: Overall U-Value of 0.27, or less, when tested in accordance with NFRC 100-91.

1.04 Glazing: Double sealed unit 3mm annealed glass with soft coat Low-e, argon gas, and "Super-Spacer" by Edgetech, or equal

1.05 Warranty: Provide manufacturer's 10-year warranty.

08710 Door Hardware

Provide complete finish hardware for the project. Hardware shall be heavy-duty commercial grade with lever handles as needed for handicap access. Doors shall have door handles or door pulls with heavy weight hinges. All doors shall have corresponding door stops (wall or floor mounted), except where prohibited by code. All public use doors and toilet room doors shall be equipped with kick plates. Swinging doors shall have at least 1 1/2 pair of butts up to 3'-0", and 2 pair for door leafs for doors 3'-0". For unusual size or weight doors, furnish type, size and quantity recommended by the butt manufacturer. All finish hardware shall comply with provisions of the 2000 IBC and local amendments. Hardware for fire rated openings shall be furnished and installed in accordance with NFPA-80.

Keying: Coordinate with Owner's representative for keying preference. All locks shall be master keyed. Locks shall be re-keyed upon final acceptance. Mounting Height: Install hardware per DHI recommendations listed in Recommended Locations for Builders Hardware." Install each hardware item in full compliance with the manufacturer's instructions. Knob and lever mounting heights shall comply with ANSI A117.1 or ADA, as applicable.

Adjustment: Adjust and check each operating item of hardware and each door to insure proper operation of function of every unit. After the mechanical system has been balanced, adjust door closers to comply with ANSI requirements.

Required Hardware:

Hinges	Hagar
Locks and Latch Sets	Schlage D series - provide Best Cores in Schlage locksets
Exit Devices	Yale
Closers	Norton 7500 series
OH Stops and Holders	Rixson
Push/Pulls and Door Plates	Hagar
Auto Flush Bolts and Coordinators	Door Controls International
Thresholds, Smoke Seals and Weatherstripping	Pemko
Electric Strikes	Von Duprin (welded frames) Adams Rite (Timely frames)
Mag Holders	By Division 16

08715 Automatic Sliding Doors

Provide automatic slide doors, series 2000 linear drive, type: 110, configuration 0-SX-SX-0, as manufactured by Horton Automatics. Unit shall be mounted within rough opening with sliding panels sliding along exterior side of sidelight. Sliding panels shall be configured for emergency breakout. Unit size shall be as shown on the drawings. Components include:

1.01 Operator: The electric operating mechanism shall be Series 2000 linear drive mounted and concealed with the header. Operating force shall be accomplished through 1/8 HP DC permanent magnet motor with 1800 RPM working with a threadless 1/2-inch diameter linear drive shaft made of induction-hardened steel. Provide manufacturer's standard Microprocessor Master Control with programmable time values for open/close.

1.02 Header: Shall be aluminum with removable faceplate and capable of self-support up to length of 16 feet on standard door size and glazing. Header size to be 4 inches deep by 6 inches high.

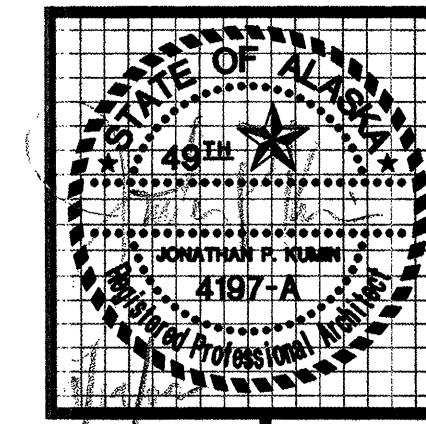
1.03 Track: Shall be aluminum, 1/4 inch wide, nylon covered, and replaceable. Rollers shall be steel, high quality ball bearing wheels 1-1/4 diameter. Anti derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel.

1.04 Sliding Panels and Sidelites: Shall be aluminum, 1-3/4" deep with narrow stile horizontal and vertical rails. Weather-stripping to be along perimeter of sliding panels. Concealed guides shall stabilize bottom of sliding panel. Slide-swing panels shall be configured for emergency egress and shall swing out 90 degrees from any position of slide movement and require no more than 50 lbf of force applied at the lock stile to open. Units shall be UL listed, complying with NFPA 101.

1.05 Sensor System: 24 VAC, class II circuit, microwave motion sensors shall be header-mounted on each side of door unit for detection of traffic from each direction. Two LED pulsed infrared photoelectric beams to be mounted in vertical rails of sidelite or in jambs at heights of 24 inches and 48 inches.

1.06 Electrical: 120 VAC, 60 cycle, 1 phase, 15 amp.

1.07 Materials, Finishes and Fabrication: Extruded aluminum complying with ASTM B221, 6063-T5 alloy and temper, anodized. Color and finish to match curtain walls: Champagne.



kumin associates, inc.
architects • planners • interior designers

Sjoquist Architects, Inc.
2001 University Ave SE #200
Minneapolis, Minnesota 55414
612.379.9233 Fax: 612.379.9263

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100% SUBMITTAL

08800 Glazing

For glazing other than that specified in Section 08569 for PVC windows, provide insulating vision units, 1-inch total thickness with 1/2 inch airspace and two 1/4 inch lites. Typical glazing: clear float glass, "Sungate 100" by PPG, or equal. Insulated glass units shall be Low-e, argon filled, thermally broken with a minimum wintertime U-value of .31 and minimum shading coefficient of 0.54. Coat second surface of exterior pane. Provide heat-treated, coated float glass of kind indicated or, if not otherwise indicated, Kind HS (heat strengthened) where recommended by manufacturer to comply with system performance requirements specified and Kind FT (fully tempered) where safety glass is designated or required.

Translucent glazing panels shall include a frosted white translucent panel on the exterior surface and a clear unit on the interior surface. Opaque panels shall include a frosted white translucent panel on the exterior surface and an opaque spandrel panel on the interior surface. Translucent and opaque panels are indicated on the drawings.

Provide tempered or laminated safety glass at all doors, transoms, sidelites and elsewhere as required by IBC for areas subject to human impact. Provide Type II, Class 1 approved wire glass for all glazed openings in fire-rated wall assemblies. Submit samples of all glazing assemblies.

08815 Special Glass

At observation windows, provide transparent mirror glass "Mirropane E.P." by Pilkington Building Products or equal. Transparent mirror glass shall be 1/4" thick, scratch and abrasion resistant with high reflectivity and light transmittance which allows privacy with unobtrusive vision into observed room.

Where "Obscure Glass is indicated, provide obscure, tempered or laminated safety glass, "Texture Glass" as manufactured by Pilkington Building Products. Safety glass shall be 1/4" or 5/32" thick with "Cotswold" texture to provide obscuration.

08830 Mirrors

Unframed mirrors shall be clear with beveled edges. Mirrors shall be mounted with appropriate adhesives in the sizes and locations shown on drawings.

08910 Glazed Aluminum Curtain Wall

Provide thermally broken aluminum curtain walls as shown on the drawings. Design is based on CMI 6600 Wall as manufactured by CMI Architectural Products, Inc. Performance requirements are:

- 1.01 Air Infiltration: Air infiltration shall not exceed .06 CFM/sq ft. of fixed area at a test pressure of 12.0 psf when tested in accordance with ASTM E 283.
1.02 Water Infiltration: Shall be tested in accordance with ASTM E 331, no water penetration at a test pressure of 15.0 psf.
1.03 Structural Performance: Maximum deflection of 1/175 of the span and allowable stress with safety factor of 1.5. The system shall perform to these criteria under a wind load of 26 psf.
1.04 Thermal Performance: Shall be tested in accordance with ASTM C-236 and AAMA U-value of 0.44 and a minimum CRF of 67.

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy G.S. 10A-T5). Fasteners, where exposed, shall be aluminum or stainless in accordance with ASTM A 164-71. Perimeter anchors shall be aluminum or steel, providing the steel is isolated from the aluminum. Mullion joinery shall be accomplished by the use of shear block or screw spline joinery. Internal gutters shall be properly blocked and sealed to direct moisture accumulation to the exterior. All vertical and horizontal mullions shall have a dense neoprene thermal break located on the exterior. Exterior glazing shall be dense EPDM contained by an aluminum pressure plate. Interior glazing shall be closed cell neoprene contained in a raceway of the main mullion profile. A cover shall be snapped over the pressure plate to show only a sharp, uninterrupted profile. Finish: An Architectural Class I anodic coating with integral color in accordance with the Aluminum Association Standard AA_M12 C22 A44 designated as "champagne". The framing system shall provide for a flush glazing appearance, with no projecting stops. Vertical and horizontal framing members shall have a nominal dimension of 2-1/2 inch by 8 inch.

DIVISION 9 FINISHES

09255 Gypsum Board Assemblies

Provide Type X (Firecode C by USG.), 5/8" gypsum wallboard throughout for walls and ceilings, unless noted otherwise. Provide water-resistant Type X, (Firecode C by USG.), 5/8" gypsum wallboard on walls in toilets, janitor areas, and locker rooms.

Provide gypsum wallboard and accessories as manufactured by United States Gypsum Co. Provide cornerbeads and edge trim, joint tape and factory-premixed joint compound, fastening adhesives for wood, gypsum board screws, sound attenuation blankets and resilient channels. Install gypsum wallboard and accessories as recommended by manufacturer for given application. Finish gypsum wallboard joints and edges with three coats of joint compound; comply with manufacturer's recommendation when gypsum wallboard is base for acoustical tile, ceramic tile, wall coverings or paint. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions. Apply primer to all surfaces to achieve texture finish. All gypsum wallboard scheduled for paint finish shall receive a light orange peel texture prior to painting. Gypsum wallboard scheduled for wallcovering shall receive a flat finish. Architect to approve texture prior to application.

09300 Tile and Stone

Stone Type "STF-1": Flat river rock: Provide natural Alaskan flat river rock collected from the banks of select rivers in Southcentral Alaska. Rocks shall be geometric, of various shapes and sizes, ranging from approximately 4" x 4" to 12" x 12" and shall be no greater than 3/4 inch at their thickest dimension. Rocks shall have a slate-like texture and shall range in color from light gray to dark gray.

Tile Type "PTF-1 & PTF-2": Porcelain Tile Pavers: Provide Dal-tile "Florito": Nominal 12" x 12" x 3/8" thick porcelain paver tiles and 6" x 6" x 3/8" Deco-A, Deco-B and field tiles. Tiles shall have a rustic textured finish with fossil impressions on Deco tiles. Tile shall be installed in a "Hopsotch" pattern on Lobby floor. Provide bullnose base trim and other trim and accessories as required for a complete installation.

Tile Type "CTF-1": Unglazed Mosaic Tile: Provide 2" x 2", 1/4" thick tiles with porcelain body and cushion edges as manufactured by Dal-Tile. Tiles for showers and locker rooms shall contain abrasive grains. Provide cove base trim and other trim and accessories as required for a complete installation.

Tile Type "CTW-1 - CTW-5": Glazed Wall Tile: Provide 1" x 6" x 5/16" and 6" x 6" x 5/16" thick Dal-Tile glazed tiles with a gloss finish. Provide bullnose trim and other trim and accessories as required for a complete installation.

Tile Accessories:

At exposed floor tile edges and transitions to other materials, provide Schluter edge-protection profiles "Schiene", "Reno-U", and "Reno-1K" with satin anodized aluminum, profiles and sizes as required.

At stair nosings, provide Wooster "Spectra" safety treads, WP3T, with an extruded aluminum base and high content of aluminum oxide abrasive filler. Nosings shall be one piece over length of tread. Filler color to be chosen from manufacturers' full range.

Tile backer board - Provide cementitious tile backer units, USG Durock, 5/8" thick. Fasteners and installation methods shall be as recommended by manufacturer.

Provide all other trim and accessories required for a complete installation. Follow Tile Council of America installation methods using latex modified Portland cement adhesive and grout for thin set applications. For floors, reference TCA method F112-2K (at natural stone) and F113-2K (typical). For walls, reference TCA method W243-2K (at GWB) and W244-2K (at tile backer board). For shower receptors, reference B415-2K and B417-2K (curb).

09511 Acoustical Ceilings

Ceiling Type "AC-1": Provide USG product "Sandrift" 24" x 24" x 3/4" cast panels with Shadowline edge, "drift" texture and integral color, and designed for a 15/16" suspended ceiling grid system. Panels shall meet ASTM E1264 classification: Type III, Form 4, Pattern X. ASTM E84 surface burning characteristics: Class A. NRC Range .65 - .75. Light reflectance: .83

Ceiling Type "AC-2": Provide USG product "Eclipse Climaplus Illusion 2/24" 24" x 48" x 3/4" with Shadowline tapered edge, scored to simulate two 24" x 24" panels, and designed for a 15/16" suspended ceiling grid system. Panels shall meet ASTM E1264 classification: Type III, Form 1 or 2, Pattern EIK. ASTM E84 surface burning characteristics: Class A. NRC Range .65 - .75. Light reflectance: .84

Panels shall be installed using USG Donn DX 15/16" exposed grid system. Grid shall be intermediate duty type, of hot dipped galvanized steel painted to match color of ceiling panels.

Panels and grid shall comply with manufacturer's instructions, industry standards, and code requirements for complete panel and grid installation. Provide trim at perimeter of rooms and all cut edges.

09651 Resilient Tile Flooring

Resilient Tile Flooring Type "VCT-1": Provide commercial grade vinyl composition tile "Essentials" by Mannington. VCT shall be 1/8" gauge, 12"x12" that passes ASTM F-1066 Class 2, Type IV, Composition 1. Lay tile in "basketweave" direction; in colors and pattern as indicated in Drawings. Use manufacturer's recommended adhesive and cross-grain sealer.

09666 Sheet Vinyl Floor Coverings

Resilient Sheet Vinyl Flooring Type "SV-1": Provide commercial grade homogeneous sheet vinyl, "BioSpec" by Mannington. Sheet vinyl shall have a wearlayer and overall thickness of 80 mils. Sheet vinyl meets ASTM F 1913, Type II, Grade 1, (no backing)

Resilient Sheet Vinyl Flooring Type "SV-2": Provide commercial grade inlaid sheet vinyl, "Magna Multiflex" by Mannington. Sheet vinyl shall have a wearlayer of 55 mils and an overall thickness of 80 mils. Sheet vinyl meets ASTM F 1303, Type II, Grade 1, Class A and shall meet ASTM E-648 Class I.

Resilient Sheet Vinyl Flooring Type "SV-3": Provide commercial grade rotogravure printed sheet vinyl, "Custom Spec II" Forest Hills by Mannington. Sheet vinyl shall have a wearlayer of 20 mils and an overall thickness of 80 mils. Sheet vinyl meets ASTM F 1303, Type I, Grade 1, Class A and shall meet ASTM E-648 Class I.

Sheet vinyl shall meet or exceed ASTM E-648 Class I and pass ASTM E 662. Width shall be 6 feet and seams shall be Heat Welded. Welding rod shall match background color of primary sheet vinyl (camouflage type where available). Installed per industry standards and manufacturer's instructions with manufacturer's recommended adhesive. Where required, provide integral self-coved sheet vinyl base.

09670 Resilient Stair Treads and Landing Tiles

Resilient Stair Treads and Landing Tiles Type "RF-1": Provide Roppe Corporation rubber stair tread with raised square profile, 1/4" tapering to 1/8", with square nose, type no. 94. Provide rubber landing tile, 20" x 20" x 1/8" gauge matching stair treads in design and color.

09678 Resilient Wall Base and Accessories

Resilient Wall Base Type "RB-1": Provide 1/8" gauge type TS thermoset, vulcanized SBR rubber wall base, transition strips, edging and accessories by Roppe Corporation. Wall base shall be 4" high with top-set toe unless otherwise noted. Provide job-formed interior corners and wrapped outside corners. Transition strips shall be vinyl in shapes to accommodate flooring materials, and coordinate with color of adjacent materials.

09680 Carpet

Carpet Type "CPT-1" and "CPT-6": Provide Shaw Contract "Una de Gato", multi-level pattern loop of 100% Solutia Ultron VIP BCF nylon fiber. Carpet shall have 1/12 gauge, 0.128" pile thickness, and 26 oz. per square yard production yarn weight. Carpet shall be solution dyed with a polypropylene primary backing and "Ultraloc MP" secondary backing with FlorSept. Carpet features include SSP Shaw Soil Protection, permanent electrostatic control, anti-microbial properties, and resistance to delamination, pulling and edge-ravel.

Carpet Type "CPT-2": Provide Shaw Contract "Avenia", pattern loop of 100% Solutia Ultron VIP BCF nylon fiber. Carpet shall have 1/10 gauge, 0.15" pile thickness, and 26 oz. per square yard production yarn weight. Carpet shall be solution dyed with a polypropylene primary backing and "Ultraloc MP" secondary backing with FlorSept. Carpet features include SSP Shaw Soil Protection, permanent electrostatic control, anti-microbial properties, and resistance to delamination, pulling and edge-ravel.

Carpet Type "CPT-3" and "CPT-4": Provide Designweave Commercial "Strada", textured loop pile graphic of 100% solution dyed nylon fiber. Carpet shall have 5/64 gauge, .093" - 0.218" pile height, and 26 oz. per square yard production yarn weight. Carpet shall be solution dyed with a woven polypropylene primary backing and "Action Bac" secondary backing.

Carpet Type "CPT-5": Provide Designweave Commercial "Quorum", precision cut and loop pile of 100% Solutia LXI nylon. Carpet shall have 1/8 gauge, 0.25" pile height, and 30 oz. per square yard production yarn weight. Carpet shall have a woven polypropylene primary backing and "Action Bac" secondary backing.

Carpet Type "CPT-7": Provide Designweave Commercial "Varia", textured loop pile graphic of Premise SD nylon. Carpet shall have 1/10 gauge, 0.125" - 0.25" pile height, and 32 oz. per square yard production yarn weight. Carpet shall be solution dyed with a woven polypropylene primary backing and "Action Bac" secondary backing. Carpet features include Designweave SP protective treatment.

All carpets shall pass ASTM-D-2856, ASTM-E-684 Class I and ASTM-E-662 <450. Carpets shall be installed by the direct glue-down method following industry standards, Carpet and Rug Institute guidelines and manufacturers written directions. Locate seams in accordance with approved seam diagram Head seams shall be minimized and not used in areas of heavy traffic. Seams perpendicular to door frame at doorways will not be allowed.

09900 Painting

Provide best quality, top of the line commercial paint products and systems for the applications indicated. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for the substrate and type of material being applied. The following paint schedules are based on Sherwin Williams Paint Co. paint and colors. Provide paint systems as follows:

EXTERIOR PAINT SCHEDULE -

- A. Ferrous Metal:
1 Coat Rust Inhibitive Primer
2 Coats Alkyd Gloss Enamel
B. Zinc-Coated Metal:
1 Coat All Metal Primer
2 Coats Alkyd Gloss Enamel

INTERIOR PAINT SCHEDULE

- A. Gypsum Drywall in Toilets, Janitor Areas, and Locker Rooms
1 Coat Latex Base Primer/Sealer
2 Coats Latex Semi-gloss Enamel
B. Gypsum Drywall in All Other Areas:
1 Coat Latex Base Primer/Sealer
2 Coats Latex Satin Enamel
C. Woodwork and Hardboard to have Opaque Finish:
1 Coat Alkyd Enamel Undercoat
2 Coats Alkyd Semi-Gloss Enamel
D. Woodwork to have Stained, Transparent Finish (Typical for all wood trim unless otherwise noted):
1 Coat Sanding Sealer
2 Coats Polyurethane Varnish: Satin Sheen

Section 10416 Directories and Bulletin Boards

- 1) Provide one directory, APCO 2100, 27-inch high by 20-inch wide. (2 columns of message strips = 32, 1-inch high message strips total). Locate directory to right of elevator opening in lobby 102.
2) Bulletin Boards are intended to be tack boards. See remarks in Section 10100, above.

E. Ferrous Metal:

- 1 Coat Rust Inhibitive Primer
2 Coats Alkyd Semi-Gloss Enamel
F. Zinc-Coated Metal:
1 Coat All Metal Primer
2 Coats Alkyd Semi-Gloss Enamel

09950 Wallcovering

Vinyl Wallcovering Type "VWC-1 - VWC-3": Guard "Arabella Diamond", Type II, 20 oz./lin. yd. 53/54" wide, backing fabric: Osenburg. Provide stain resistant Guard-Plus topfinish and anti-microbial treatment.

Vinyl Wallcovering Type "VWC-4": Len-Tex "Catalan", Type II, 21 oz./lin. yd. 53/54" wide, backing fabric: P.C. Blend Osenburg. Provide stain resistant Aquo-Clear topfinish and Bio-Pruf anti-microbial treatment.

Vinyl Wallcovering Type "VWC-5": York "Sudio Source" Pattern - Sponge Marble, Type II per CCC-W-408D, 54" wide, non-woven type. Wallcovering shall have mildew resistant and anti-microbial properties.

Vinyl Wallcovering Type "VWC-6": Genon "Confetti", Type II, 20 oz./lin. yd. 53/54" wide, backing fabric: Osenburg. Wallcovering shall have mildew resistant and anti-microbial properties

All wallcoverings shall meet Class A requirements under NFPA standards when tested by ASTM E84-98. Wallcoverings shall meet or exceed FS CCC-W-408A & C and CFFA-W-101A and shall contain bactericides and mildew inhibitors to protect products from microbiological and mildew growth. Installation shall be per manufacturer's written directions and industry standards using GWB primer and mildew resistant, heavy duty adhesive as recommended by the wallcovering manufacturer for the specific use and substrate.

DIVISION 10 SPECIALTIES

10100 Visual Display Boards

Provide marker board and tack board units with 2" wood trim Claridge, Series 210. Markerboard shall have full length wooden chalktray and extruded aluminum map rail and shall be 24 ga. LCS porcelain enamel steel on 3/8" particle board with aluminum foil panel backing. Map rail shall be provided with end stops and metal map clips (1 per 12" length). Tackboards shall be "Claridge cork". Markerboard and tack board color and finish shall be chosen from manufacturer's full range. Wood species shall be maple. Sizes and configurations shall be as shown on Drawings.

10155 Toilet Partitions

Section 10155 Toilet Partitions
Standard floor mounted toilet partitions with headrails are acceptable.

Provide Hadrian powder coated steel toilet partitions with 1" cell honeycomb core, ceiling hung. Formed edges to be welded together and inter-locked under tension with a roll-formed oval crown locking bar, mitred, welded and ground smooth at the corners. Doors shall be 25mm (1") thick with cover sheets not less than 22ga. (0.8mm). Panels shall be 25mm (1") thick with cover sheets not less than 22ga. (0.8mm), and pilasters shall be 32mm (1.25") thick with cover sheets not less than 18ga. (1.2mm). All panel and pilaster brackets and all door hardware shall be chrome plated zinc die castings. Pilaster shoes shall be a welded one-piece design made from polished stainless steel. Two piece shoes are unacceptable. Partition colors shall be chosen from manufacturer's full range.

10260 Wall Protection

At Wallcovering VWC-1 Eggshell (Crash rails should match Koroseal K-38 Fern as specified)
At Wallcovering VWC-2 and VWC-5 Dover White
At Wallcovering VWC-3 Silver
At Wallcovering VWC-6 English Green

Wall Protection Accessories shall be manufactured of high impact vinyl acrylic extrusion, nominal 0.078" thick, Class 1/A fire rating, tested in accordance with ASTM E-84. Vinyl shall have a pebble grain finish with EPA registered Micro-Chek antimicrobial agent. Retainer: Minimum 0.060" thick aluminum. Provide all fasteners and accessories required for a complete installation.

Wall Protection Panels "WP-1": Provide Koroseal "Koroguard" Protective wallcovering: Rigid high-impact acrylic/polyvinyl chloride (PVC) sheet. Fire Rating: Class II/B, Thickness: 0.040", Color: to be selected by Architect from manufacturer's full range of standard colors., Texture: Standard.

Corner Guards "WP-2": Provide Koroseal "Koroguard" G100-series surface mounted corner guards, 2" x 2" x 5.16" thick with 1/4" radius cover mounted over a continuous aluminum retainer. Provide lengths as required and all required accessories including end caps.

Bumper Guards "WP-3": Provide Koroseal "Koroguard" B300 Bumper Guard, 2" wide x 1" deep with a continuous PVC retainer. Accessories: End caps, corner caps, splice kits, and other accessories as required.

10416 Directories and Bulletin Boards

Provide surface mounted non-illuminated building directories, APCO, Visulex 2100 Series with RD Door Shape. The assembly shall consist of a cabinet with an operable glass cover, a 4" header panel and channel baking for removable engraved messages strips. Hinge hardware shall not be visible on the face of the directory.
§ Message content: Provide message strips conforming to list provided by Owner. Include blank strips as needed to bill out directory spaces and additional stock of blank message strips equal to number of strips installed in directory.
§ Material: 2-color-, high pressure, plastic laminate engraving stock, size as indicated. Color to be chosen from manufacturer's full range. Copy: 1/2" high Helvetica medium in color to contrast with message strip, upper and lower case.

Section 10100 Visual Display Boards

- 1) The tack boards are shown on detail B3/A5.10 (2-foot by 7-foot bulletin board above the lockers in room 179) and at detail A3/A5.15 (2-foot by 5-foot bulletin board above the lockers in room 243). In this instance, the bulletin boards and tack boards are the same thing. Please disregard the "bulletin board" reference in Section 10416. In addition to the two tack boards shown, we will add three more, at the following locations:
a) Add 3-foot by 4-foot tack board at West wall of room 228, near end of casework.
b) Add 3-foot by 4-foot tack board at North wall of Hall 015.
c) Add 3-foot by 4-foot tack board at South wall of Hall 023.
2) We believe 24-gauge is standard for the marker boards specified. This information was taken directly from the Claridge Products standard specification; see attached.

kumin associates, inc. interior designers
architects • planners • interior designers
Sjoquist Architects, Inc. Minneapolis, Minnesota 55414
2001 University Ave. SE #200 Minneapolis, MN 55406
612.379.9233 Fax 612.379.9263
http://www.sjoquist.com

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10425 Signs

Interior signage shall be sandblasted plastic having square edges with integral raised lettering, symbols, and Braille. Signage shall meet all requirements of the ADA. Provide custom shaped signage products by Mohawk Signs, Series 200A. Signage colors to be chosen from manufacturer's full range of colors. Provide signs at all interior corridor doors. Sign text to be coordinated with the Owner.

Exterior address signage to include 10" tall helvetica medium cast aluminum clear finish numbers mounted on the front of the building. Coordinate with Architect for location.

10520 Fire Extinguishers, Cabinets and Accessories

Provide Fire Extinguishers, Cabinets and Accessories as manufactured by J.L. Industries. Unless noted otherwise, provide bracket mounted multipurpose dry chemical type, UL rated 1A:10BC. For fire extinguisher cabinets in corridors, in common areas and where indicated on Drawings, provide semi-recessed Model No. 1037F10-FX with Cosmic 5E (2A:10BC extinguisher). Corners of cabinet to be mitered, welded, and ground smooth. In mechanical/utility rooms provide Cosmic 5E and a MB808 bracket.

10800 Toilet and Bath Accessories

Provide heavy-duty commercial grade toilet accessories by Bobrick (www.bobrick.com). Provide blocking as appropriate for attachment of all accessories. Toilet accessories shall be fabricated of stainless steel with a satin finish unless otherwise noted. Accessories shall be furnished and installed as shown on Drawings and as follows:

- § Diaper Changing Station (DC): Surface mounted, concave surface with safety strap, liner and paper towel dispenser. Model B-2210
- § Grab Bars (GB): 1 1/2" dia, concealed mounting, configured to meet ADA requirements. Series B-6806
- § Mirrors (M): Angle frame, vandal resistant mounting, Series B-290
- § Mop Rack (MR): 24" long with shelf and hooks, Model B-224
- § Paper Towel Dispenser/Receptacle (PTD): Semi-recessed, sized to hold 600 C-fold towels and 12 ga. of waste. Model B-3942
- § Paper Towel Dispenser (PT): Surface mounted, sized to hold 200 C-fold towels Model B-2621.
- § Robe Hook (RH): 2" square flange, Model B76717
- § Shower Curtain and Rod (SC): Extra-heavy-duty stainless steel shower rod and white vinyl matte opaque curtain with twelve (12) shower curtain hooks.
- § Soap Dispenser (SD): Surface mounted, Model B-2112 where sinks are wall mounted.
- § Soap Dispenser (SD): Countertop mounted, Model B-822
- § Sanitary Napkin Dispenser (SND): Surface mounted, Model B-2800
- § Sanitary Napkin Receptacle (SNR): Surface mounted, Model B-254
- § Shower Seat (SS): Folding shower seat, solid phenolic, Model B-5181
- § Toilet Tissue Dispenser (TPD): Surface mounted roll-in-reserve, Model B-2888
- § Toilet Seat Cover Dispenser (TSC): Surface mounted, Model B-221
- § Cup Dispenser (CD): Surface mounted, dispensed 150 3 oz. cups, Model B-235.

Section 10800 Toilet Accessories

10500 Lockers Provide all required toilet accessories at all toilets, including TP, TSD and SNR's at Women's toilet rooms.

Provide metal lockers as manufactured by Hadrian Manufacturing Inc. (www.hadrian-inc.com), "Emperor Lockers" (Action Security or Alaska Glass): Body, 24 ga. Edges formed to provide a strong and rigid assembly. Locker backs have triple thickness of metal at back corners. Door frames: 16 ga. formed into rigid channels on vertical members. Doors: Double pan design with 20 ga. outer panel, double flanged on all four edges, welded to 24 ga inner panel with a 1" cell honeycomb core. Latching mechanism: Provide spring loaded single point positive latch. Door handle shall be recessed and provided with padlock hasps and padlocks. Hinges: full-length 18 ga. continuous piano hinge, welded to the frame and fastened to the door with screws or rivets. Ventilation shall be provided with louvers in the vertical steel frame members.

Single Tier Lockers: 12" x 12" x 60" with sloping top: Provide on raised bench as Drawn.

Double Tier Lockers: 12" x 12" x 36" with sloping top: Provide lockers to be installed on a 2" base as Drawn.

Four Tier Lockers; 12" x 12" x 12" with sloping top: Custom sized locker to be installed on a 4" high recessed base, provided by the locker manufacturer.

Accessories: Provide shelves and hooks as standard for each type of locker. Provide number plates, sloped tops, filler panels and finished end panels as well as any other parts and accessories required for a complete installation.

10600 Operable Partitions

Provide continuously hinged electric partitions, Modernfold Acousti-Seal 933ES. Panels shall feature key operation with automatic acoustic bottom seals. Panel construction shall consist of 16 ga. Formed steel framing elements with 21 ga. Steel skins lockformed and welded directly to the frame to form a unitized 3" thick panel. Hinges shall be full leaf butt type. Acoustical performance shall be STC 52 when tested in accordance with ASTM E-90. Panel finish shall be woven fabric, not less than 13 oz./sq. yd. with stain resistant treatment, chosen from manufacturer's full range. Marker boards shall be provided on not less than half the total length of panels in each room, both sides. Accessories include recessed chalk/marker tray, one for each 8' of marker board or fraction thereof.

10670 High-Density Mobile Storage System

Provide manually operated high-density storage system by Spacesaver (www.spacesaver.com) or equal. Complete system shall consist of an operable system of carriages mounted on rails that support multi-configurable shelving for storage. Carriages and shelving shall be manually operated and shall close to a nested stack. System components include:

1.01 Rails: Rail shall be minimum 1035 hardness rating. Rails shall be designed and manufactured to carry a minimum load of 1000 pounds per linear foot of carriage. All rail connection joints shall provide horizontal and vertical continuity between sections, to gradually transfer the concentrated wheel point load to and from adjoining sections, and to absolutely prevent rail separation and delamination. Rail design shall incorporate smooth contact surfaces for the wheel/wheel guidance. Guidance shall be roller bearing. Guidance system shall prevent carriage derailment. Grout all rails with a non-shrink hydraulic cement type grout with an 8,000 psi strength after curing.

1.02 Raised floor and ramp: Finished elevation of the raised floor shall be flush with the top of rails. Ramps shall extend under all moveable and stationary ranges. Floor panels shall be constructed of minimum 3/4 inch thick, 7-ply exterior grade plywood.

1.03 Carriages: Carriages shall be welded, uniframe assemblies constructed of minimum 12-gage steel with main supporting face sections 5-3/4 inch high with two reinforcing flanges running the full length of the carriage. Main supporting structural face sections shall provide a 3/4 inch shelf mounting recess for positive shelf alignment and attachment. Carriages shall be powder coat painted.

1.04 Face Panels: All exposed ends and exposed back shall have high-pressure laminate (laminate to be .040 inch thick) over 3/4 inch high-density particleboard core. Provide handles, cardholders and all other necessary hardware for a complete installation.

1.05 System Operation: Manual control handle constructed from non-corrosive smooth finished aluminum shall be provided on the face panel of each moveable carriage, located 39 inches from the base of and centered on the face panel.

1.06 Wheels shall be constructed of solid steel for smooth operation. All wheel bearings permanently shielded and lubricated.

1.07 Shelving: Provide uprights of 18 gage cold rolled steel formed into 1 inch wide angle shape end post. Keyhole shaped slots shall be placed on 1-1/2 inch centers vertically on inner face of posts. Standard shelves shall be formed of 22-gage cold rolled steel with flanges on all four sides. Front and rear flanges shall be turned down and in. Shelves shall be adjustable on 1-1/2" centers vertically. Shelves to be supported front and back by two shelf supports of 14-gage hot rolled steel. Full depth shelves shall have mounting holes for attachment of an optional center stop.

10900 Wardrobe and Closet Specialties

Hooks - Typical hooks shall be aluminum with ABS plastic mounting block and concealed set screw as manufactured by Binns (www.binnscof.com) At cubbies, provide single hook, Model V1/W with an epoxy coated finish. At exam rooms and offices, provide double hook, Model V1/H (one at each room u.n.o.) with a silver anodized aluminum finish. Where indicated, provide maple "ball" hooks, CH-15 as manufactured by Doug Mockett and Company, Inc. (www.mockett.com).

DIVISION 11 EQUIPMENT

11132 Projection Screens

Provide recessed, ceiling mounted case and manually operated, replaceable 8' wide projection screen with matte white surface and black side masking border, Draper "Access/Series M". Coordinate installation and support with other ceiling construction, including light fixtures, HWAC equipment, fire suppression system, and partitions. Provide all trim, hardware, fasteners and accessories required to support and install screen assembly.

11452 Appliances

Appliances to be provided an installed as follows:
Garbage Disposal: 3/4 HP, heavy duty type, Features: manual reset overload, quiet operation, continuous feed, stainless steel grind chamber and elements. Kenmore #60554.

Install appliances in strict accordance with manufacturer's recommendations, and all applicable codes and regulations, test all equipment to assure proper operation and function of all items. Unless otherwise noted, appliances shall be white.

Specialized equipment

Specialized equipment shown in the plans and interior elevations, but not otherwise specified shall be provided and installed by the Owner. Coordinate dimensions and clearances for specialized equipment.

DIVISION 12 FURNISHINGS

12492 Horizontal Louver Blinds

Window treatment shall be horizontal blinds with 1" wide aluminum slats, 'valance-free' head rail design and concealed installation brackets, breaks between blinds shall be centered on window mullions. Levolor "Riviera Mark I, Dustguard" or equal. Blinds shall feature enclosed bottom rail with bottom bumper, Nominal .0085" salt thickness, 15.7 slats per foot, and lifetime warranty. Blinds shall be installed where indicated on Drawings.

12690 Floor Mats and Frames

Provide walk-off mats of 100% polypropylene fiber with fiber lock coating and fire retardant latex/non-slip heavy-duty vinyl backing "Quill-tuft". Overall thickness shall be approximately 3/8", total weight: 85 oz. Flammability: DOC-FF1-70 Pill Test Passes; E-648 Class II. Install all mats per manufacturer's instructions using recommended adhesive and accessories for complete installation.

DIVISION 13 SPECIAL CONSTRUCTION

13081 Lead Sound Barriers

Sound barriers shall be "Acoustilead" sheet 1/64 inch thick, weighing 1 lb. per square foot. Barriers shall be hung vertically in the ceiling plenum between partition top and floor deck above to provide an air and sound tight barrier. Manufacturer: Fry Metals (www.frymetals.com).

13085 Sound Masking System

Provide sound masking system for the entire third floor and portions of the second floor. Sound masking system shall provide a controlled amount of background "white noise" to mask sound intruding into private areas and to promote speech confidentiality between private spaces. Engage a qualified installer with at least 3-years experience in design and installation of similar sound masking systems. Installer shall design and install masking system based on criteria outlined below:

1. The masking speakers must be located above the ceiling tile, and aimed upward into the deck above. Speaker spacing should be chosen to achieve uniform coverage. Loudspeakers should be full-range 8-inch diameter cone type, mounted in enclosures suspended above the ceiling in the plenum. Acceptable products include: Soundolier Model M980-S2T7-Rs, or Lowell MKS-8B3-8C10-T70-SW.
2. Any given masking speaker shall not cover more than 125 square feet.
3. Use speakers on two separate channels (A and B) for each protected room. Channel "A" speakers shall be placed over the partition between two adjoining spaces, channel "B" speakers shall be placed over the corridor wall. A and B speakers shall alternate between adjoining spaces.
4. Masking sound levels shall be uniform throughout the finished space, plus/minus 3 decibels. Masking sound levels shall be constant over time, plus/minus 1/2 decibels.
5. The system shall have a high quality two-channel noise generator/controller with timed ramp-up and ramp-down features. In the event of a power failure, the masking system shall come back to full volume over a five-minute period.
6. Masking noise must be produced by two separate random pink noise generators. Equalizers connected to each independent masking channel shall provide control of the frequency spectrum in 1/3 octaves. Power amplifiers must drive the loudspeakers through a 70 volt distribution system. Components shall be rack mountable in a standard 19-inch rack.
7. The installed system must be checked for proper equalization, levels and coverage by a qualified acoustical consultant prior to acceptance.

DIVISION 14 CONVEYING SYSTEMS

14200 Elevators

Provide 2500-pound capacity, roped hydraulic elevator as manufactured by Otis Elevator Company, or approved equal. System shall include elevator cab, signal fixtures, hoistway entrances including doors and frames, power unit, controller, guide rails, and all electrical and mechanical systems required for complete elevator installation. Elevator quantity, hoistway configuration, stops and total rise as indicated on the drawings. Doors and frames: stainless steel. Wall finish: plastic laminate. Floor finish: carpet.
Speed: 150 FPM
Power requirements: 480 volts, three-phase, 60 hertz.
Motor size: 40 HP.

DIVISION 15 MECHANICAL SYSTEMS

See mechanical drawings for description and scope of work.

DIVISION 16 ELECTRICAL SYSTEMS

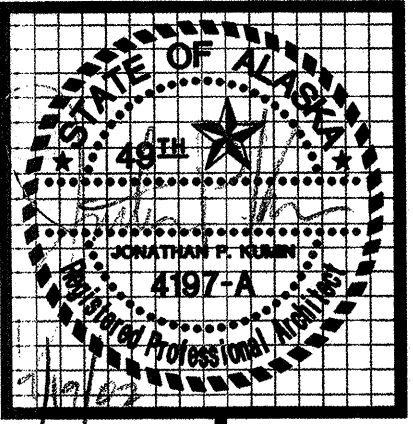
See electrical drawings for description and scope of work.

Section 10425 Signs

1) With respect to type of sign required for unisex toilet rooms, see matrix below:

Room Name	Room Number	Symbol/Identification
Rest room	131	Handicap + man + woman
Rest room	140	Handicap + man + woman
Rest room	169	Handicap + man + woman
Rest room	220	Handicap + man + woman
Rest room	244	Handicap + man + woman
Family rest room	332	Handicap + man + woman
Women	337	Handicap + woman
Men	338	Handicap + man
Rest room	345	Handicap + man + woman

- 2) Exterior address/aluminum letters and numbers shall be fastened to the brick tile monument sign at the entry to the site and aluminum letters shall be fastened to the curved steel section above the front entry canopy. Kumin Associates will provide information on quantity of letters and verbiage, with input from Southcentral Foundation.
- 3) Provide vinyl letters, 8" high on glass above main entry door to read "4143". Kumin Associates will confirm any additional vinyl lettering, (name, hours of operation, etc.) with Southcentral Foundation and revert.
- 4) Kumin Associates will provide final details for facility monument sign by end of week (11-2-02).



kumin associates, inc.
architects • planners • interior designers

Sjoquist Architects, Inc.
2001 University Ave. SE #200
Minneapolis, Minnesota 55414
http://www.sjoquist.com
612.379.9233 Fax: 612.379.9263

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100% SUBMITTAL

GENERAL STRUCTURAL DESIGN SPECIFICATION

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SITE CONDITIONS, SPECIFICATIONS AND THESE NOTES SHALL BE REPORTED TO THE ARCHITECT AT ONCE.

ALL CONSTRUCTION SHALL COMPLY WITH THE 2000 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

STRUCTURAL DESIGN DATA

CONSTRUCTION LOADS: STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, PROTECT THE STRUCTURES BY BRACING OR OTHER MEANS.

LIVE LOADS:	
SNOW	40 PSF + DRIFT (I=1.0)
STAIRS AND EXITS	100 PSF
OFFICE AREAS	50 PSF + 20 PSF PARTION LOAD

WIND LOADS: IN ACCORDANCE WITH 2000 IBC AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. 3-SECOND GUST = 110 MPH, EXPOSURE B. I=1.0

SEISMIC LOADS: SEISMIC LOADS WERE CALCULATED ACCORDING TO THE 2000 IBC AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. Seismic Use Group I, Site Class C, Sds=1.0, Sd1=0.55, I=1.0, R=8.0 (Steel Special Moment Frame System), Base Shear = 327 kips (LRFD) per linear response spectrum analysis.

LATERAL FORCES ARE CARRIED BY FLEXIBLE ROOF AND RIGID FLOOR DIAPHRAGMS TO THE MOMENT FRAMES. MOMENTS, SHEARS, AND ROTATIONAL FORCES ARE DELIVERED TO THE FOUNDATION BY THE MOMENT FRAMES IN PROPORTION TO THEIR ABILITY TO RESIST LATERAL DEFORMATION. BELOW GRADE, LATERAL FORCES ARE RESISTED BY ORDINARY REINFORCED CONCRETE SHEAR WALLS IN PROPORTION TO THEIR ABILITY TO RESIST LATERAL DEFORMATION.

SPECIAL INSPECTION

Copies of inspection reports shall be available to the construction site for review by the MOA Building Safety Personnel. The following work shall be inspected by a special inspector:

- CONCRETE.** DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE. EXCEPTIONS: FOR FOUNDATION CONCRETE, OTHER THAN CAST-IN-PLACE DRILLED PILES OR CAISSONS, WHERE THE STRUCTURAL DESIGN IS BASED ON AN FC NO GREATER THAN 2,500 POUNDS PER SQUARE INCH (PSI) NONSTRUCTURAL SLABS ON GRADE SITE WORK CONCRETE FULLY SUPPORTED ON EARTH AND CONCRETE WHERE NO SPECIAL HAZARD EXISTS.
- BOLTS INSTALLED IN CONCRETE.** PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
- REINFORCING STEEL.** DURING PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION BY ITEM 1. EXCEPTION: THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING PLACING OF REINFORCING STEEL, PROVIDED THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE TO THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
- STRUCTURAL WELDING.** GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE. EXCEPTIONS: WELDING DONE IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH SECTION 1701.7. THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING: SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16 INCH (7.9 MM) IN SIZE. FLOOR AND ROOF DECK WELDING. WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS. WELDED SHEET STEEL FOR COLD-FORMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS.
- WELDING OF REINFORCING STEEL.** DURING THE WELDING OF REINFORCING STEEL. EXCEPTION: THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WELDING OF ASTM A706 REINFORCING STEEL NOT LARGER THAN NO. 5 BARS USED FOR EMBEDMENTS PROVIDED THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
- HIGH-STRENGTH BOLTING.** THE INSPECTION OF HIGH-STRENGTH A325 AND A490 BOLTS SHALL BE IN ACCORDANCE WITH APPROVED NATIONALLY RECOGNIZED STANDARDS AND THE REQUIREMENTS OF THIS SECTION.

WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE REQUIREMENT FOR BOLTS, NUTS, WASHERS AND PAINT; BOLTED PARTS; AND INSTALLATION AND TIGHTENING IN SUCH STANDARDS ARE MET. SUCH INSPECTIONS MAY BE PERFORMED ON A PERIODIC BASIS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1701.6. THE SPECIAL INSPECTOR SHALL OBSERVE THE CALIBRATION PROCEDURES WHEN SUCH PROCEDURES ARE REQUIRED BY THE PLANS OR SPECIFICATIONS AND SHALL MONITOR THE INSTALLATION OF BOLTS TO DETERMINE THAT ALL PLIES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND THAT THE SELECTED PROCEDURE IS PROPERLY USED TO TIGHTEN ALL BOLTS.

FOUNDATIONS

ALL ORGANIC, FROZEN, OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB-GRADE OR COMPACTED NFS BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 4,000 PSI.

REFER TO THE SOILS REPORT FOR SUB-GRADE PREPARATION.

THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE CAST IN ONE CONTINUOUS PLACEMENT.

STRUCTURAL CONCRETE NOTES

ALL CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI, EXCEPT FLOOR SLABS SHALL BE 4,000 PSI.

PORTLAND CEMENT SHALL CONFORM TO ASTM C150. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH. ALL AGGREGATE SHALL BE NORMAL WEIGHT MATERIAL CONFORMING TO ASTM C 33. WATER SHALL MEET ASTM C94, SECTION 4.1.3.

EPOXY GROUT SHALL MEET ASTM C881.

ALL CONCRETE SHALL CONTAIN A WATER REDUCING ADMIXTURE MEETING ASTM C494, TYPE A AND NOT MORE THAN 0.1 PERCENT CHLORIDE IONS. BEFORE THE ADDITION OF THE WATER REDUCING ADMIXTURE, THE MAXIMUM SLUMP SHALL BE 3 INCHES. MAXIMUM WATER CEMENT RATIO SHALL BE 0.46 FLOOR SLABS AND 0.50 FOR ALL OTHERS.

ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C260. AIR ENTRAINMENT: 4-6%.

CHAMFER ALL EXPOSED CORNERS 3/4 INCH UNLESS NOTED OTHERWISE.

A CURING COMPOUND CONFORMING TO ASTM C 309 WITH A FUGITIVE DYE SHALL BE APPLIED (PER MANUFACTURER'S SPECIFICATIONS) TO ALL EXPOSED CONCRETE SURFACES UPON INITIAL SET OR PULLING OF FORMS.

COLD WEATHER CONCRETE SHALL CONFORM TO ACI 306. (ALL COLD WEATHER CONCRETE SHALL CONTAIN AIR ENTRAINMENT PER ACI TABLE 4.1.1) CALCIUM CHLORIDE SHALL NOT BE USED.

ALL REINFORCING BARS SHALL MEET ASTM A615, GRADE 60. ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND ACI 315.

ALL WELDABLE REINFORCING SHALL MEET ASTM A706 AND SHALL BE WELDED PER ANSI/AWS D1.4.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:

	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: # 6 THROUGH # 18 BARS.....	2
# 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: # 11 BAR AND SMALLER.....	3/4
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1-1/2

DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.

WELDING OF REBAR IS NOT ALLOWED WITHOUT ENGINEER'S APPROVAL.

ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 OR ASTM A497. LAP PER I.B.C. WELDED WIRE FABRIC SHALL BE SUPPORTED ON APPROVED CHAIRS. IN 5-1/2" FLOOR DECKS, USE 6x6 W1.4xW1.4 SHEETS. IN 6-1/2" FLOOR DECK, USE 6x6 W2.1xW2.1 SHEETS.

NON-SHRINK GROUT SHALL BE NON-METALLIC, CONFORMING WITH ASTM C1107

LAP SPLICES FOR DEFORMED BARS SHALL CONFORM TO THE FOLLOWING:
FOOTINGS, FLOOR SLABS, HORIZONTAL BARS IN WALLS: 40 BAR DIAMETERS ALL BARS
VERTICAL REINFORCEMENT IN WALLS: 60 BAR DIAMETERS #7 BARS & SMALLER
80 BAR DIAMETERS #8 BARS & LARGER

CONCRETE MIX DESIGN REPORTS AND CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

DRILLED IN CONCRETE ANCHOR (D.I.C.A.) NOTES

EXPANSION BOLTS SHALL BE USED AS SHOWN ON THE DRAWINGS IN CONCRETE. ACCEPTABLE DRILLED IN CONCRETE ANCHORS SHALL BE HILTI "KWIK BOLT", ITW REDHEAD TRUBOLT OR EQUAL. INSTALL D.I.C.A. OF THE SIZE, NUMBER, AND SPACING AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED, THE D.I.C.A. MAY BE INSTALLED WITHOUT SPECIAL INSPECTION.

STRUCTURAL STEEL NOTES

MATERIALS:

WF SHAPES, UON:	ASTM A992 GRADE 50
STRUCTURAL STEEL TUBES (HSS):	ASTM A500, GRADE B
STRUCTURAL STEEL PIPES:	ASTM A53, GRADE B
ALL OTHER SHAPES & PLATE:	ASTM A36
BOLTS:	ASTM A325 & ASTM A490
HARDENED WASHERS:	ASTM F436
NUTS:	ASTM A563 (GRADE OF NUT TO MATCH BOLT MATERIAL)
STEEL STUDS:	ASTM A108
WELDABLE REINFORCING BARS:	ASTM A706, WELD PER ANSI/AWS D1.4.
ANCHOR RODS:	ASTM F1554 GRADE 36, HEADED END (OR NUT).

ALL BOLTS SHALL BE 3/4 INCH DIAMETER UNLESS OTHERWISE NOTED.

ALL DETAILING, FABRICATION AND ERECTIONS SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION.

ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1, LATEST EDITION. ALL WELDING ELECTRODES SHALL BE PROPERLY CONDITIONED E70-XX. ALL FLUXES SHALL BE LOW HYDROGEN TYPE.

ALL CONNECTIONS SHALL BE SIMPLE, SINGLE PLATE SHEAR CONNECTIONS USING HIGH-STRENGTH BEARING TYPE BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANE, A325-X, UNLESS OTHERWISE NOTED. THE SHEAR PLATE SHALL MAY EMPLOY SLOTTED HOLES PARALLEL TO THE LONG AXIS OF THE BEAM. NUTS SHALL BE SNUG TIGHT UNLESS OTHERWISE NOTED.

ALL BEAMS, JOISTS AND TRUSSES SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES. CONSIDERATION SHOULD BE GIVEN TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS, OR COLUMNS.

THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

ALL STEEL STUD ANCHORS SHALL BE WELDED AND INSPECTED PER AWS D1.1, SECTION 7. AFTER WELDING, THE CERAMIC FERRULE SHALL BE REMOVED FROM EACH STUD AND THE WELD FILLET VISUALLY INSPECTED. ALL STUDS WITH FILLETS OF LESS THAN 360 DEGREES SHALL BE HAMMER TESTED, BENDING THE STUD 15 DEGREES FROM THE VERTICAL. BENDING WITHOUT FAILURE INDICATES A SATISFACTORY WELD. BENT STUDS MAY REMAIN BENT. AT LEAST ONE STUD SHALL BE HAMMER TESTED ON EACH BEAM. THE ENGINEER SHALL BE NOTIFIED IF A SIGNIFICANT NUMBER OF STUDS FAIL THE HAMMER TEST.

ALL STEEL TO BE PAINTED SHALL BE CLEANED BY METHODS COMPLYING WITH THE STEEL STRUCTURES PAINTING COUNCIL METHOD SSPC-SP3, POWER TOOL CLEANING. REMOVE OIL, GREASE, AND SIMILAR CONTAMINANTS. EXCEPT FOR MEMBERS TO BE WELDED, APPLY STRUCTURAL STEEL PRIMER PAINT IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS TO A UNIFORM DRY FILM THICKNESS OF 2.0 MILS. AFTER FINAL STEEL INSTALLATION, WIRE BRUSH EXPOSED STEEL SURFACES AND CLEAN WITH SOLVENTS BEFORE TOUCH-UP PAINTING. TOUCH-UP PAINT SHALL BE THE SAME AS SHOP PAINT. STEEL REQUIRING PAINTING INCLUDES ALL STEEL DIRECTLY EXPOSED TO WEATHER OR VIEW.

ALL HOT-DIP GALVANIZING OF STEEL SHALL CONFORM TO ASTM A365. TOUCH-UP AND REPAIR GALVANIZATION SHALL CONFORM TO ASTM A780.

THE CONTRACTOR SHALL SUBMIT ENGINEERED SHOP DRAWINGS TO THE ENGINEER, FOR REVIEW. THESE DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE SUBMITTAL AND SHALL SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL. ALSO SUBMIT WELDERS QUALIFICATIONS.

MASONRY VENEER NOTES

CONCRETE MASONRY UNITS: ASTM C 90, GRADE S, TYPE 1, MINIMUM COMPRESSIVE STRENGTH = 1,900 PSI.

MORTAR: ASTM C 270, TYPE S; MINIMUM 28 DAY COMPRESSIVE STRENGTH, 2,000 PSI. MASONRY JOINT REINFORCEMENT: PROVIDE LADDER TYPE WITH SINGLE PAIR OF SIDE RODS AND CROSS RODS SPACED NOT MORE THAN 16 INCHES O.C., HOT-DIP GALVANIZED. WIRE SIZE FOR SIDE RODS AND CROSS RODS: W1.7

FOR FASTENERS, SEISMIC TIES, AND OTHER HARDWARE, SEE DRAWINGS.

STRUCTURAL STEEL DECK NOTES

THE MINIMUM GAGE OF THE STEEL DECK SHALL BE 20 GAGE. THE MINIMUM STEEL DECK SECTION PROPERTIES SHALL BE AS FOLLOWS:

FLOOR DECK	ROOF DECK
I = 0.896 IN4	I = 0.837 IN4
S+ = 0.534 IN3	S+ = 0.508 IN3
S- = 0.564 IN3	S- = 0.562 IN3

ALL STEEL DECKING SHALL MEET ASTM A 653-SQ, GRADE 33, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. ALL DECKING SHALL BE GALVANIZED PER ASTM A 653-680. ALL ROOF METAL DECK SHALL BE FORMED WITH TELESCOPED ENDS DESIGNED TO LAP A MINIMUM OF 2 INCHES.

MINIMUM DECK GAGES ARE SHOWN ABOVE AND ARE BASED ON 3-SPAN, UNSHORED CONDITIONS. HEAVIER DECK MAY BE REQUIRED FOR OTHER CONDITIONS, DEPENDING ON THE MANUFACTURER'S AND CONTRACTOR'S LAYOUT.

ALL COMPOSITE STEEL DECK SHALL HAVE WIDE RIBS SUITABLE FOR SHEAR STUD PLACEMENT WHERE STUDS ARE REQUIRED. THE CONFIGURATION OF THE STEEL DECK SHALL ALLOW THE DEVELOPMENT OF FULL SHEAR VALUES OF THE STUD. THE CONTRACTOR SHALL PROVIDE CHECKED SHOP DRAWINGS INDICATING EXACT LAYOUT OF STUDS FOR EACH BEAM TYPE, SPAN AND DECK LAYOUT. SHEAR STUDS SHALL BE WELDED THROUGH THE DECK BY PRE-QUALIFIED METHODS. IF THROUGH-DECK WELDING IS UNFEASIBLE, THE STUDS SHALL BE INSTALLED IN PRE-PUNCHED HOLES IN THE DECK.

ALL STEEL DECKING SHALL BE WELDED AT 12 INCHES MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH 3/4 INCH NOMINAL DIAMETER PUDDLE WELDS. FLOOR DECK SIDE LAPS SHALL BE BUTTON PUNCHED AT 24 INCHES MAXIMUM ON CENTER. ROOF DECK SIDE LAPS SHALL BE TOP SEAM WELDED AT 12 INCHES MAXIMUM ON CENTER. CRIMP SIDE LAPS BEFORE WELDING. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "SPECIFICATION FOR THE WELDING OF SHEET STEEL IN STRUCTURES".

PROVIDE CONTINUOUS METAL CLOSURES AT ALL SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURE AT ALL DECK ENDS. PROVIDE, AS REQUIRED, ALL RIDGE AND VALLEY PLATES, COLUMN CLOSURES, CANT STRIPS, SUMP PLATES AT PIPING PENETRATIONS AND RECESSED SUMP PANS AT ALL ROOF DRAINS. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS AS REQUIRED FOR SUPPORT OF THE METAL DECK.

ALL OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

THE DECK SUPPLIER SHALL CONFIRM THE DECK SIZE FOR THE ACTUAL LAYOUT AND PROVIDE THE ENGINEER WITH ENGINEERING CALCULATIONS OR PUBLISHED MANUFACTURER'S DATA VERIFYING THE SPECIFIED DECK REQUIREMENTS. PROVIDE ENGINEERED AND CHECKED SHOP DRAWINGS INDICATING LOCATION, GAGE, AND SIZE OF EACH PIECE OF DECKING. THE DRAWINGS SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING AND SIDE LAP CONNECTIONS DETAILS. WHEREVER POSSIBLE THE METAL DECK SHALL BE CONTINUOUS OVER THREE (3) SPANS IN THE DIRECTION INDICATED. ALL DECK SHALL SATISFY AISI, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

STEEL GRATING NOTES

STEEL GRATING SHALL BE WELDED, WITH A RECTANGULAR DESIGN. MAIN BARS SHALL BE SPACED AT 1-3/16 INCHES ON CENTER AND SHALL BE BENDED AT THEIR ENDS. CROSS BARS SHALL BE SPACED AT 4 INCHES ON CENTER. NO NOTCHING OR CUTTING OF BEARING BARS BEFORE WELDING IS PERMITTED. GRATING IS TO SAFELY SUSTAIN A UNIFORM DISTRIBUTED LOAD OF 125 PSF ON A FOUR FOOT ZERO INCH SPAN AND DEFLECT LESS THAN 1/8 INCHES. THE GRATING FINISH SHALL BE GALVANIZED. TYPICAL STEEL GRATE MATERIAL SHALL MEET ASTM A 569. SERRATED GRATE SHALL COMPLY WITH ASTM A 36.

COLD FORMED STEEL

COLD FORMED STEEL SHALL MEET ASTM A 446 (OR A 653) GRADE D (Fy = 50,000 PSI) FOR 14 OR 16 GAUGE MEMBERS AND ASTM A 446 (OR A 653) GRADE A (Fy = 33,000 PSI) FOR 18 GAUGE AND LIGHTER MEMBERS.

ALL STRUCTURAL MEMBERS SHALL BE DESIGNED PER THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

USE ONLY ONE TYPE OF STEEL JOIST THROUGHOUT THE WORK, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT. ACCEPTABLE JOIST MANUFACTURERS INCLUDE ANY MEMBER OF THE METAL STUD MANUFACTURER'S ASSOCIATION.

PROVIDED ALL ACCESSORIES INCLUDING TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ITEMS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. INSTALL ALL ITEMS RECOMMENDED BY THE MANUFACTURER.

FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDS OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

PROVIDE COMMERCIAL GROUT FOR LEVELING THE FLOOR RUNNER OF STEEL STUD PARTITIONS AS REQUIRED.

SUBMITTALS

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS.

STRUCTURAL ABBREVIATIONS

&	AND	C	CHANNEL SECTION	DB	DIAPHRAGM BOUNDARY	ENGR	ENGINEER	JT	JOINT	SCHED	SCHEDULE	TOF	TOP OF FOOTING
@	AT	CANT	CANTILEVER	DBA	DEFORMED BAR ANCHOR	EQ	EQUAL. EARTHQUAKE	K	KIPS	SECT	SECTION	TOS	TOP OF STEEL
∅	CENTER LINE	CTR	CENTER	DBL	DOUBLE	EQUIP	EQUIPMENT	NEW	(N)	SHT	SHEET	TP	TOP OF PAINT
#	NUMBER	CIP	CAST-IN-PLACE	DEMO	DEMOLITION	EXIST	EXISTING	NFS	NON-FROST SUSCEPTIBLE	SL	SIMILAR	TP	TANGENT POINT
AB	ANCHOR BOLT	CLJ	CONTROL JOINT	DIAG	DIAGONAL	EX	EXPANSION	PERIM	PERIMETER	SOC	SLAB-ON-GRADE	TRANS	TRANSVERSE
ADJ	ADJUSTABLE, ADJACENT	CLR	CLEAR	DICA	DRILLED-IN-CONCRETE ANCHOR	EXT	EXTERIOR	R	RAIUS, REACTION	SPFC, SP	SPACING	TYP	TYPICAL
AGGR	AGGREGATE	CLG	CEILING	DIR	DIRECTION	EW	EACH WAY	PLF	POUNDS PER LINEAR FOOT	SPEC	SPECIFICATION	UBC	UNIFORM BUILDING CODE
ALT	ALTERNATE	COL	COLUMN	DIR	DIRECTION	FB	FLAT BAR	PLWD	PLYWOOD	SO	SQUARE	UON	UNLESS OTHERWISE NOTED
ANCH	ANCHOR, ANCHORAGE	CON JT	CONSTRUCTION JOINT	DL	DEAD LOAD	FD	FLOOR DRAIN	PP	PARTIAL PENETRATION	SSL	SHORT SLOTTED	VER	VERIFY
APPROX	APPROXIMATE	CONC	CONCRETE	DN	DOWN	FDN	FOUNDATION	PSF	POUNDS PER SQUARE FOOT	STD	STANDARD	VERT	VERTICAL
ARCH	ARCHITECTURAL, ARCHITECT	CONN	CONNECTION	DO	DITTO	FF	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH	STIFF	STIFFENER	VEST	VESTIBULE
BLDG	BUILDING	CONSTR	CONSTRUCTION	DTL	DETAIL	FIN	FINISH	PT	POINT	STRL	STEEL	VLSL	VERTICAL LONG SLOTTED
BM	BEAM	CONT	CONTINUOUS	DWG	DRAWING	HT, H	HORIZONTAL LONG SLOTTED HOLES	QTY	QUANTITY	SUPP	SUPPORT		
BOT	BOTTOM	COORD	COORDINATE			HSS	HOLLOW STRUCTURAL SECTION (AKA "TUBE STEEL")	OA	OVERALL	SYM	SYMMETRICAL	W/	WITH
BO	BOTTOM OF	CP	COMPLETE PENETRATION	(E)	EXISTING	FLR	FLOOR	OC	ON CENTER			W/O	WITHOUT
BOD	BOTTOM OF DECK			EA	EACH	FOC	FACE OF BEAM	OD	OUTSIDE DIAMETER	R	RADIUS, REACTION	W	WIDE FLANGE, WIDE, WIDTH
BRG	BEARING			EJ	EXPANSION JOINT	FOS	FACE OF CONCRETE	OH	OPPOSITE HAND	REF	REFERENCE, REFER	W	WOOD
BTWN	BETWEEN			ELEC	ELECTRICAL	FS	FACE OF STEEL	OPP	OPPOSITE	REINF	REINFORCED	WD	WELDED HEADED STUD
				ELEV, EL	ELEVATION	FT	FOOT OR FEET	REQD	REQUIRED	REV	REVISION	WHS	WORK POINT, WATER PROOFING
				ENCL	ENCLOSURE	FTG	FOOTING	RIM	ROOM	PCC	PRE-CAST CONCRETE	WVF	WELDED WIRE FABRIC
								RO	ROUGH OPENING	PEN	PENETRATION		



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808 E. Street, Suite 200
anchorage, alaska 99501 • (907) 272-8838

4300 B Street, Suite 403
Anchorage, Alaska 99507
Phone: 907-562-9439
Email: info@reidmiddleton.com

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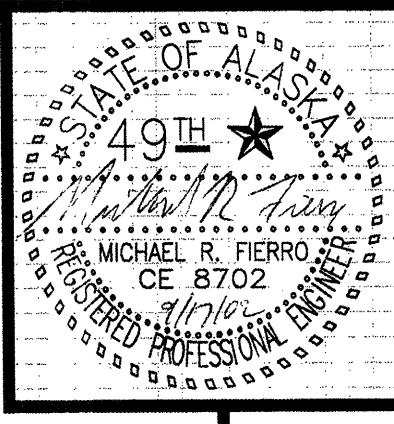
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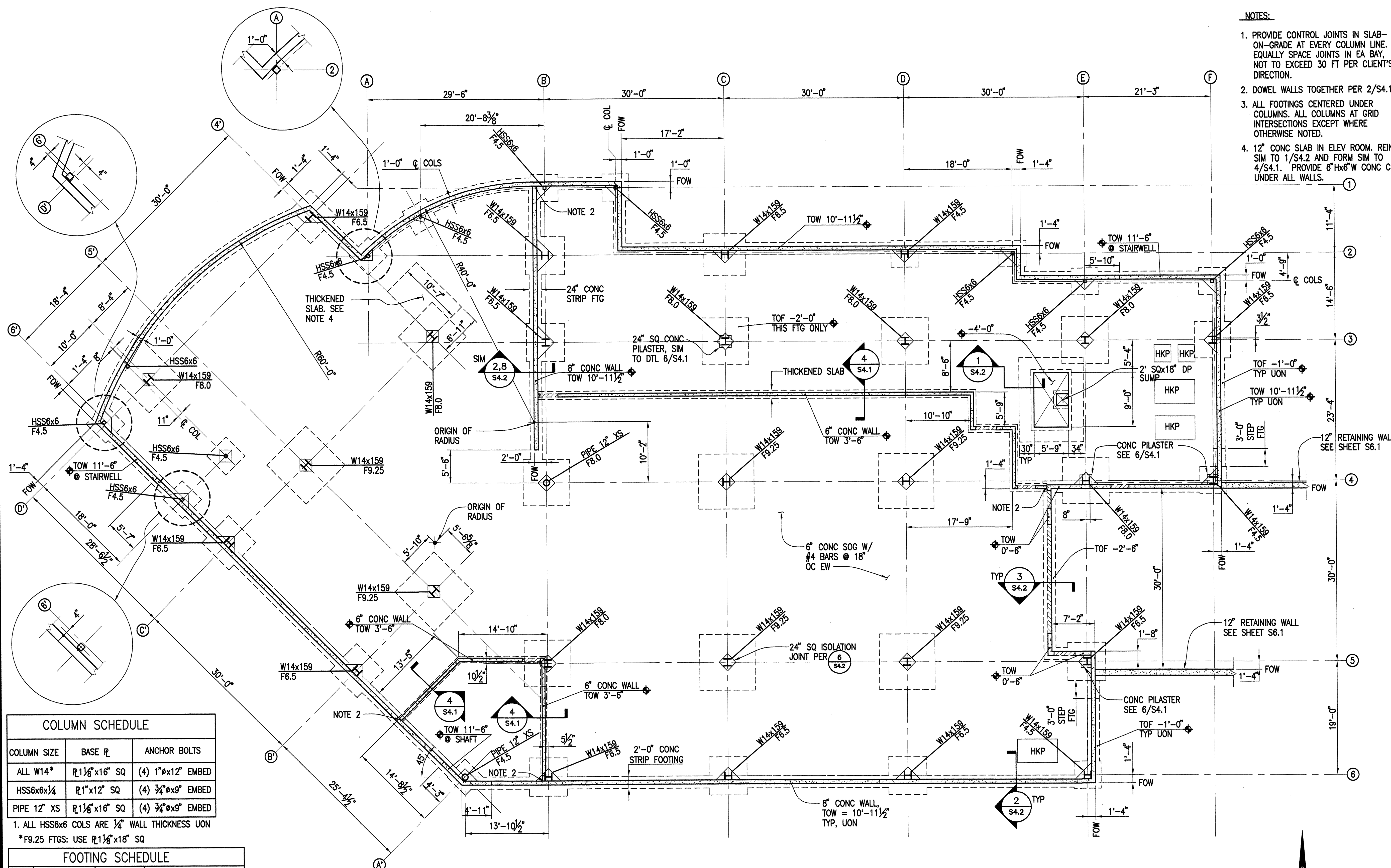
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4300 B Street, Suite 403
 Anchorage, Alaska 99503
 Phone: 907-592-3439
 Email: m.fierro@kumin.com

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- NOTES:**
1. PROVIDE CONTROL JOINTS IN SLAB-ON-GRADE AT EVERY COLUMN LINE. EQUALLY SPACE JOINTS IN EA BAY, NOT TO EXCEED 30 FT PER CLIENT'S DIRECTION.
 2. DOWEL WALLS TOGETHER PER 2/S4.1
 3. ALL FOOTINGS CENTERED UNDER COLUMNS. ALL COLUMNS AT GRID INTERSECTIONS EXCEPT WHERE OTHERWISE NOTED.
 4. 12" CONC SLAB IN ELEV ROOM. REINF SIM TO 1/S4.2 AND FORM SIM TO 4/S4.1. PROVIDE 6" Hx6" W CONC CURB UNDER ALL WALLS.



COLUMN SCHEDULE

COLUMN SIZE	BASE PL	ANCHOR BOLTS
ALL W14*	R1 1/8" x 16" SQ	(4) 1" x 12" EMBED
HSS6x6x1/4	R1" x 12" SQ	(4) 3/4" x 9" EMBED
PIPE 12" XS	R1 1/8" x 16" SQ	(4) 3/4" x 9" EMBED

1. ALL HSS6x6 COLS ARE 1/4" WALL THICKNESS UON
 *F9.25 FTGS: USE R1 1/8" x 18" SQ

FOOTING SCHEDULE

MARK	PLAN SIZE	THICKNESS	REINFORCEMENT
F4.5	4'-6" SQ	12"	(5) #5 EW BOT ONLY
F6.5	6'-6" SQ	18"	(7) #7 EW T & B
F8.0	8'-0" SQ	21"	(8) #8 EW T & B
F9.25	9'-3" SQ	24"	(10) #8 EW T & B
24" WIDE STRIP FTGS	12"		(3) #5 CONT

1. ALL TOF ELEVS = -1'-0" UON

LEGEND

HKP = HOUSEKEEPING PAD PER 7/S4.1
 GEN = GENERATOR PAD PER 8/S4.1
 TOW = TOP OF WALL
 FOW = FACE OF FOOTING
 TOF = TOP OF FOOTING
 SOG = SLAB ON GRADE

1 BASEMENT PLAN
 SCALE 1/8" = 1'-0"

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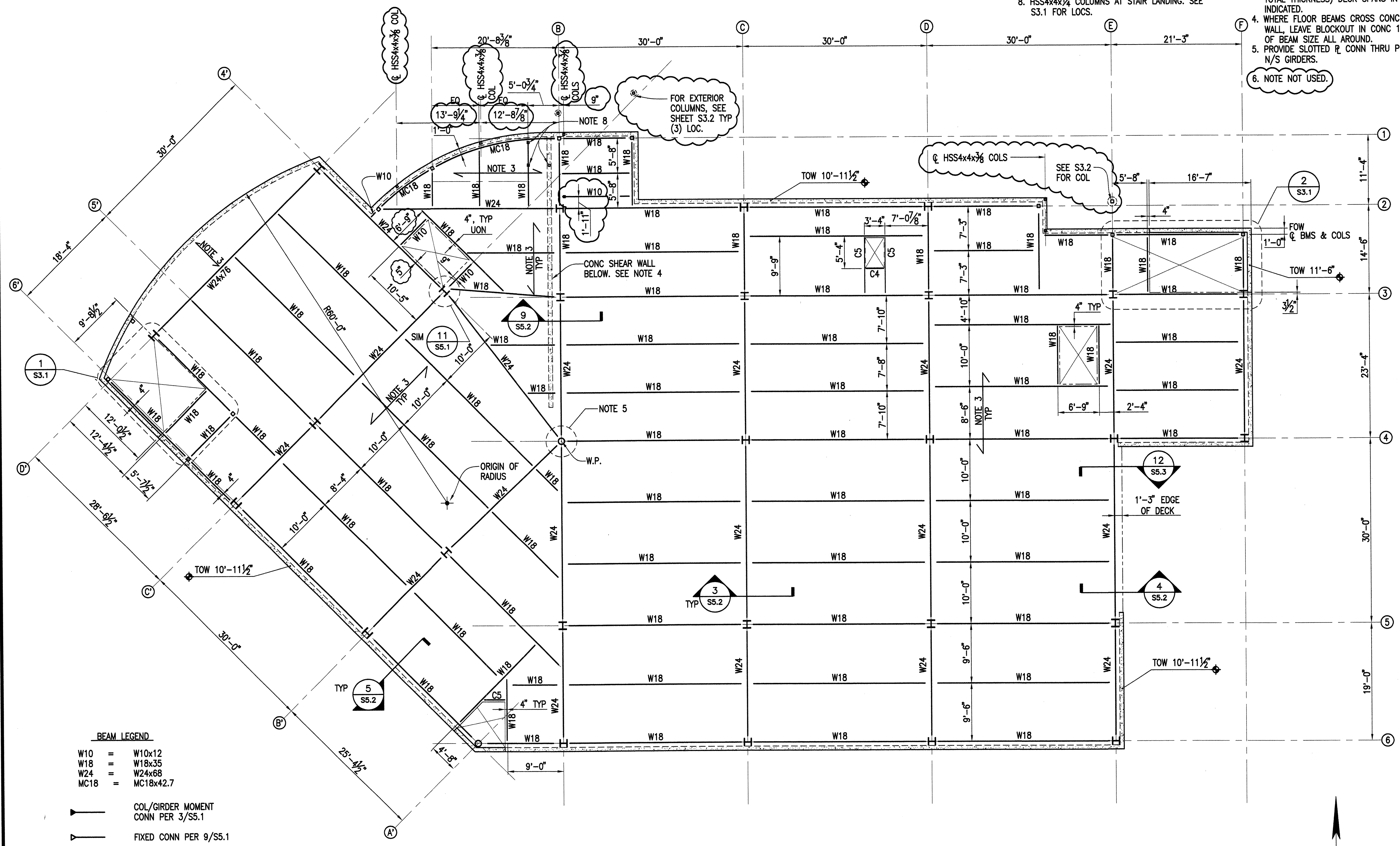
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 4300 B Street, Suite 403
 Anchorage, Alaska, 99503
 Phone: 907-562-3439
 Email: info@kumindot.com

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 FRAMING PLAN
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7. ALL GIRDER-TO-COLUMN CONNS SHALL RECEIVE FIELD WELDS BTWN THE SHEAR PLATE & BEAM IN ADDITION TO THE BOLTED CONN REQS. THIS LEVEL ONLY.
8. HSS4x4x3/8 COLUMNS AT STAIR LANDING. SEE S3.1 FOR LOCS.

- NOTES:**
1. TOS EL 10'-11 1/2" TYP UON
 2. FF EL 11'-6"
 3. COMPOSITE CONC FLOOR W/ 3"x20 GA DECK AND 3 1/2" NORMAL-WEIGHT CONC ABOVE (6 1/2" TOTAL THICKNESS) DECK SPANS IN DIRECTION INDICATED.
 4. WHERE FLOOR BEAMS CROSS CONC SHEAR WALL, LEAVE BLOCKOUT IN CONC 1" CLEAR OF BEAM SIZE ALL AROUND.
 5. PROVIDE SLOTTED PLATE CONN THRU PIPE FOR N/S GIRDERS.
 6. NOTE NOT USED.



BEAM LEGEND

W10	=	W10x12
W18	=	W18x35
W24	=	W24x68
MC18	=	MC18x42.7

- ▶ COL/GIRDER MOMENT CONN PER 3/S5.1
- ▶ FIXED CONN PER 9/S5.1

1 FIRST FLOOR - FRAMING PLAN
 SCALE 1/8" = 1'-0"



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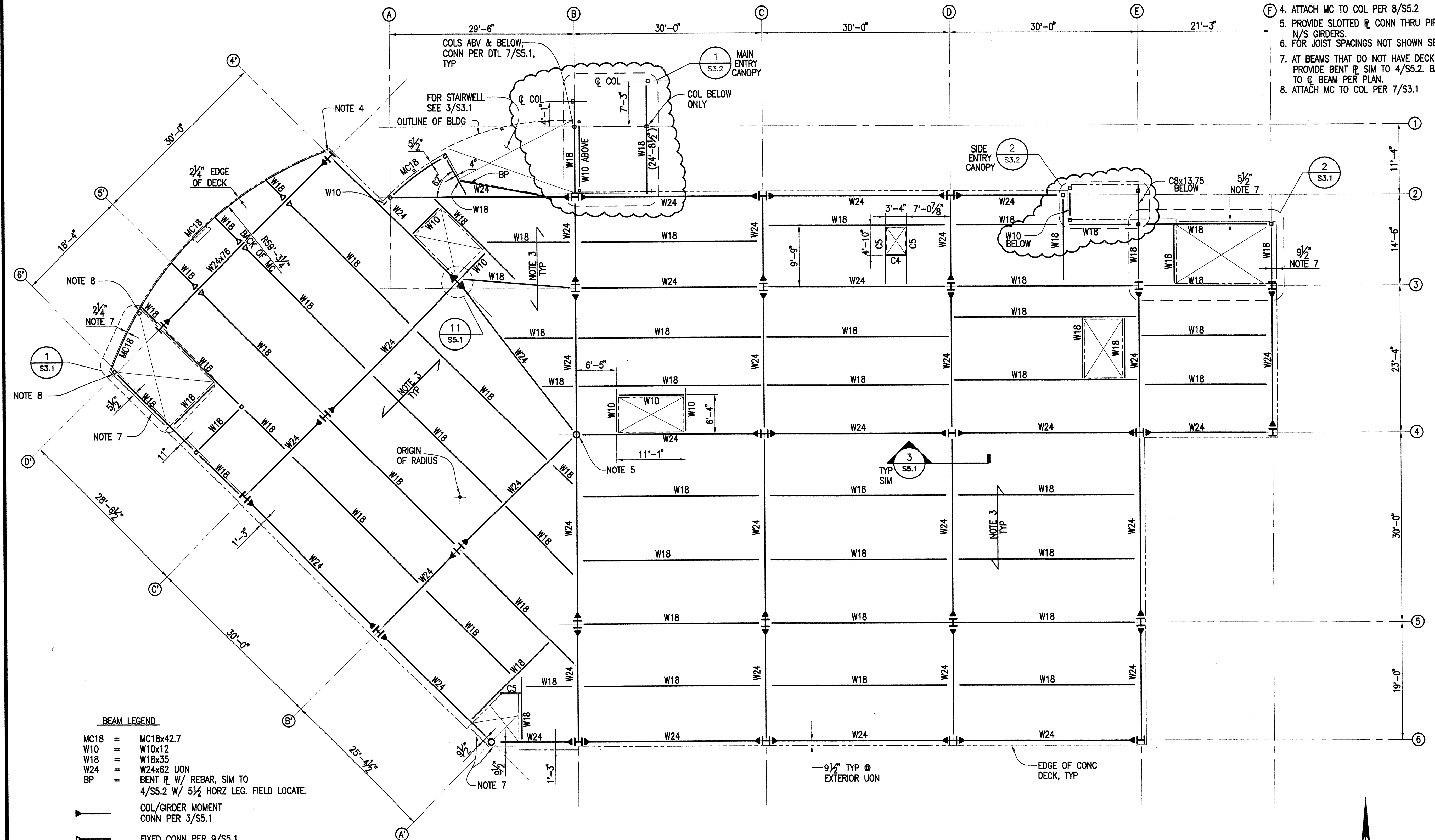
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 4300 B Street, Suite 403
 Anchorage, Alaska 99503
 Phone: 307.582.3439
 Email: info@kuminidk.com

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 2nd FLOOR
 FRAMING PLAN
 sheet no.
S2.2

- NOTES:**
1. TOS EL 25'-0 1/2" UON
 2. FF EL 25'-6"
 3. COMPOSITE CONC FLOOR W/ 3"x20 GA DECK AND 2 1/2" NORMAL-WEIGHT CONC ABOVE (5 1/2" TOTAL THICKNESS) DECK SPANS IN DIRECTION INDICATED.
 4. ATTACH MC TO COL PER 8/S5.2
 5. PROVIDE SLOTTED R₂ CONN THRU PIPE FOR N/S GIRDERS.
 6. FOR JOIST SPACINGS NOT SHOWN SEE S2.1
 7. AT BEAMS THAT DO NOT HAVE DECK ATTACHED PROVIDE BENT R₂ SIM TO 4/S5.2. BACK OF R₂ TO C₂ BEAM PER PLAN.
 8. ATTACH MC TO COL PER 7/S3.1



BEAM LEGEND

MC18	=	MC18x42.7
W10	=	W10x12
W18	=	W18x35
W24	=	W24x62 UON
BP	=	BENT R ₂ W/ REBAR, SIM TO 4/S5.2 W/ 5 1/2" HORZ LEG. FIELD LOCATE.
— —		COL/GIRDER MOMENT CONN PER 3/S5.1
— —		FIXED CONN PER 9/S5.1

1 SECOND FLOOR - FRAMING PLAN
 SCALE 1/8" = 1'-0"



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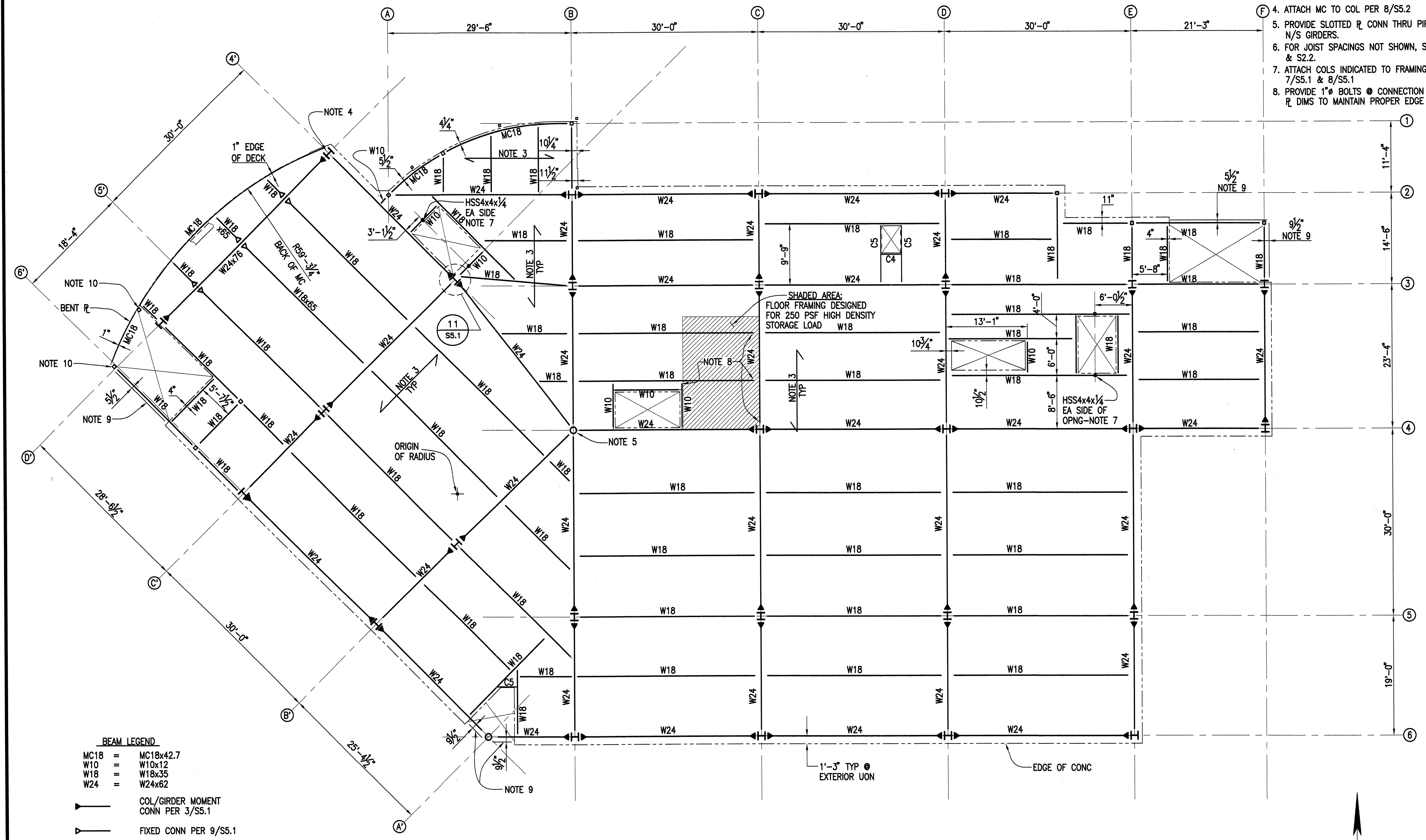
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 4500 B Street, Suite 403
 Anchorage, Alaska 99503
 Phone: 907 562-3439
 Email: info@reidmiddleton.com

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S2.3

- NOTES:**
1. TOS EL 39'-0 1/2" UON
 2. FF EL 39'-6"
 3. COMPOSITE CONC FLOOR W/ 3"x20 GA DECK AND 2 1/2" NORMAL-WEIGHT CONC ABOVE (5 1/2" TOTAL THICKNESS) DECK SPANS IN DIRECTION INDICATED.
 4. ATTACH MC TO COL PER 8/S5.2
 5. PROVIDE SLOTTED R CONN THRU PIPE FOR N/S GIRDERS.
 6. FOR JOIST SPACINGS NOT SHOWN, SEE S2.1 & S2.2.
 7. ATTACH COLS INDICATED TO FRAMING PER 7/S5.1 & 8/S5.1
 8. PROVIDE 1" Ø BOLTS @ CONNECTION INCREASE R DIMS TO MAINTAIN PROPER EDGE DISTANCES.
9. AT BEAMS THAT DO NOT HAVE DECK ATTACHED PROVIDE BENT R SIM TO 4/S5.2. BACK OF R TO Q BEAM PER PLAN.
10. ATTACH MC TO COL PER 7/S3.1



BEAM LEGEND

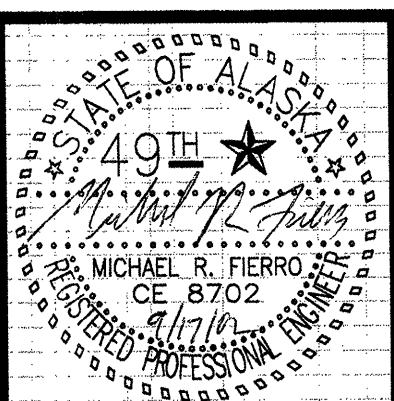
MC18 = MC18x42.7
 W10 = W10x12
 W18 = W18x35
 W24 = W24x62

COL/GIRDER MOMENT CONN PER 3/S5.1
 FIXED CONN PER 9/S5.1

1 THIRD FLOOR - FRAMING PLAN
 SCALE 1/8" = 1'-0"



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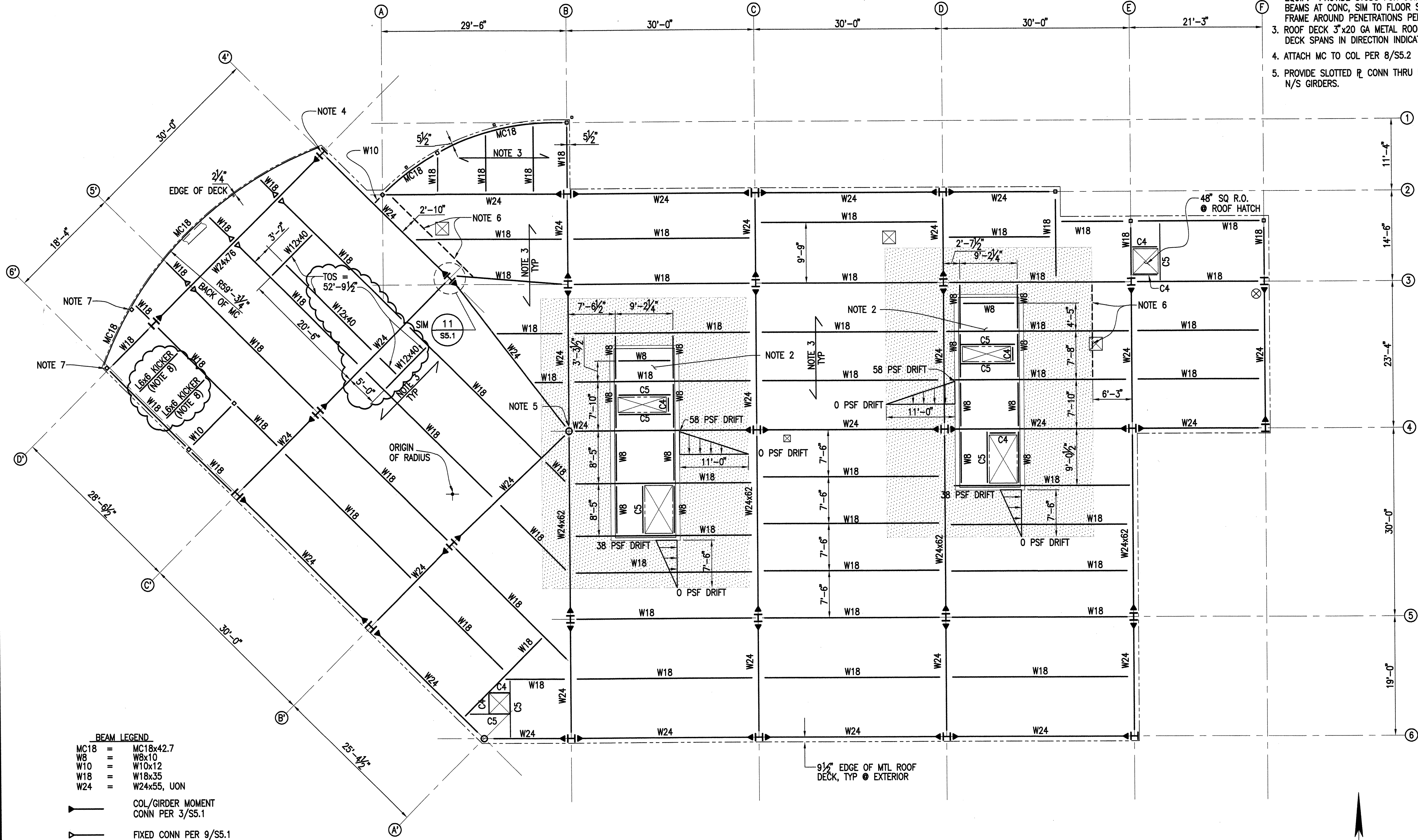
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 sheet no. **S2.4**

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NOTES:

- TOS @ 53'-3", UON. TOP OF WF COLUMNS 53'-7 1/2" UON.
- APPROX LOC OF 11' X 31' CONC PADS WITH 2 1/2" CONC COVER OVER DECK (5 1/2" TOTAL THICKNESS). ALSO REPRESENTS APPROX OUTLINE OF 11,500 LB ROOFTOP EQUIP. PROVIDE STUDS FOR COMPOSITE BEAMS AT CONC, SIM TO FLOOR SLABS. FRAME AROUND PENETRATIONS PER DTL 2/SS.2
- ROOF DECK 3"x20 GA METAL ROOF DECK. DECK SPANS IN DIRECTION INDICATED.
- ATTACH MC TO COL PER 8/S5.2
- PROVIDE SLOTTED R CONN THRU PIPE FOR N/S GIRDERS.
- LOCATIONS OF TEMPORARY W10x12 ELEVATOR HOISTING BEAMS. WELD TO BOTTOM FLANGES OF ADJACENT BEAMS W/ A MINIMUM OF 1/4"x2" FILLET WELDS, EA SIDE EA END.
- ATTACH MC TO COL PER 7/S3.1
- 16x6x1/4" DIAG BRACE. FIELD WELD TO BOTTOM FLANGE OF BEAM @ GRID 6' & TO TOP FLANGE OF BEAM @ OPP END. USE 1/4"x2" FILLETS EA SIDE OF LEG EA END.



BEAM LEGEND

MC18	=	MC18x42.7
W8	=	W8x10
W10	=	W10x12
W18	=	W18x35
W24	=	W24x55, UON

COL/GIRDER MOMENT CONN PER 3/S5.1
 FIXED CONN PER 9/S5.1

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



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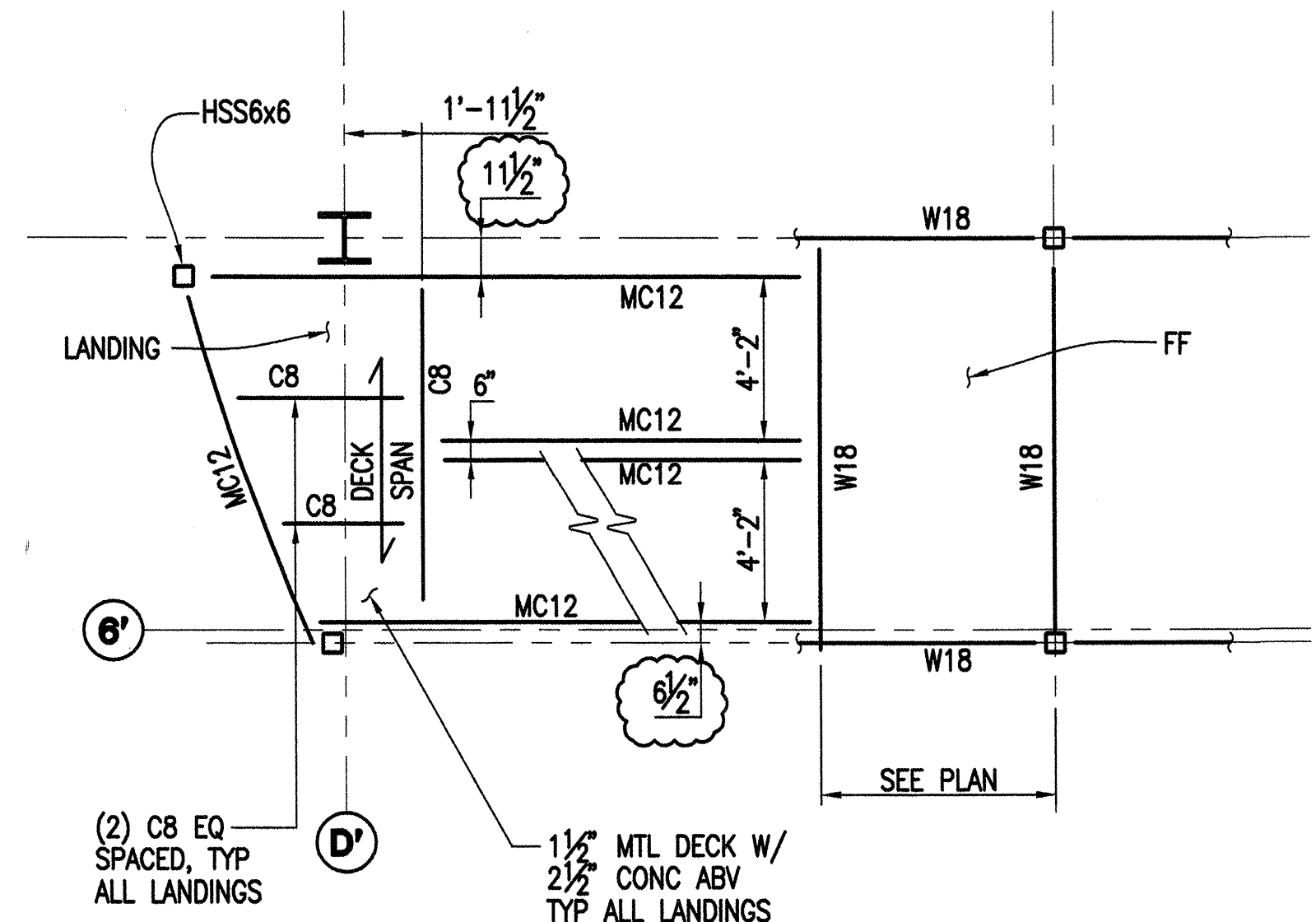
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 dwg. title
 PARTIAL STAIR PLANS
 AND DETAILS

sheet no.
S3.1

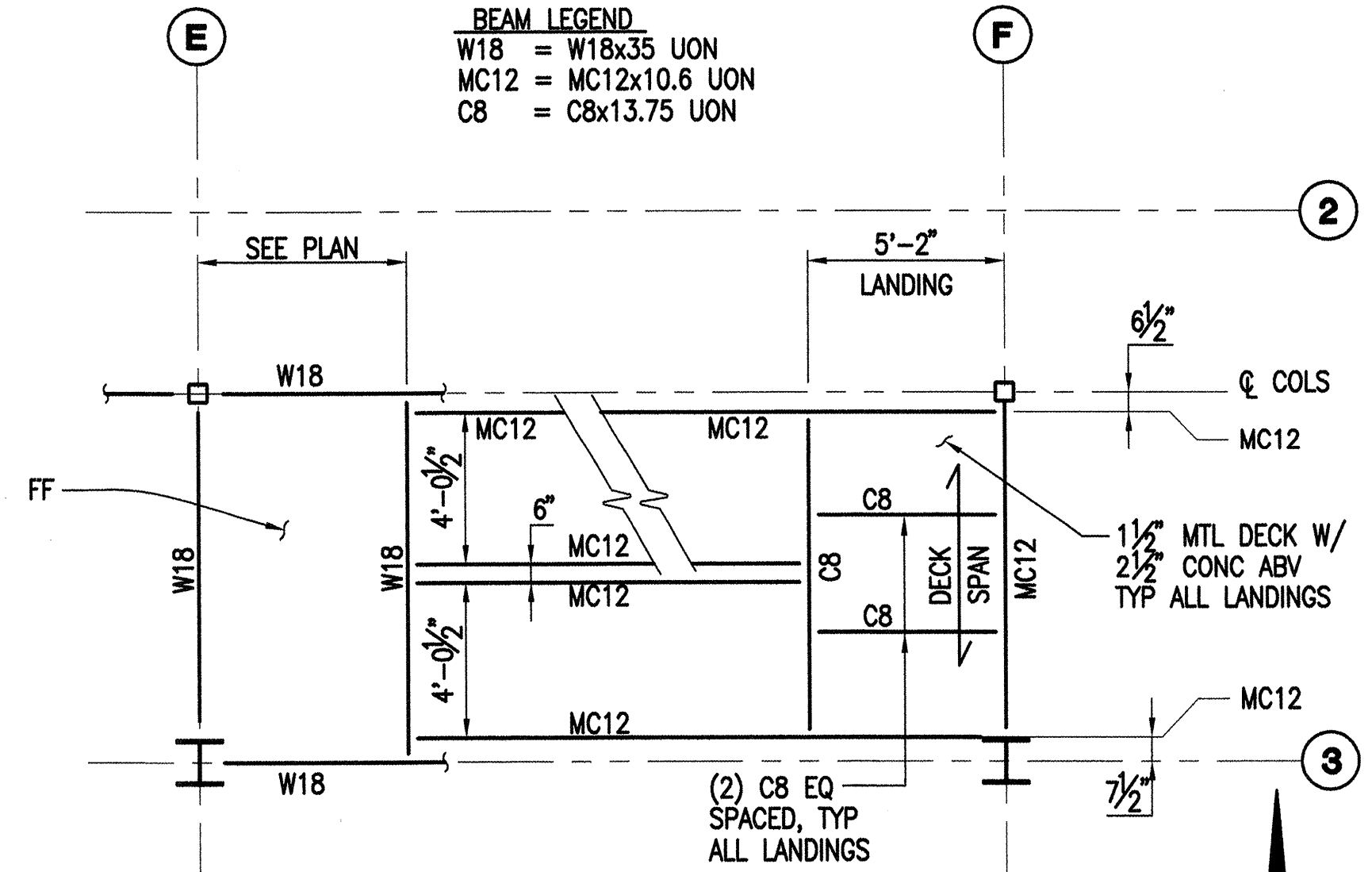
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BEAM LEGEND
 W18 = W18x35 UON
 MC12 = MC12x10.6 UON
 C8 = C8x13.75 UON



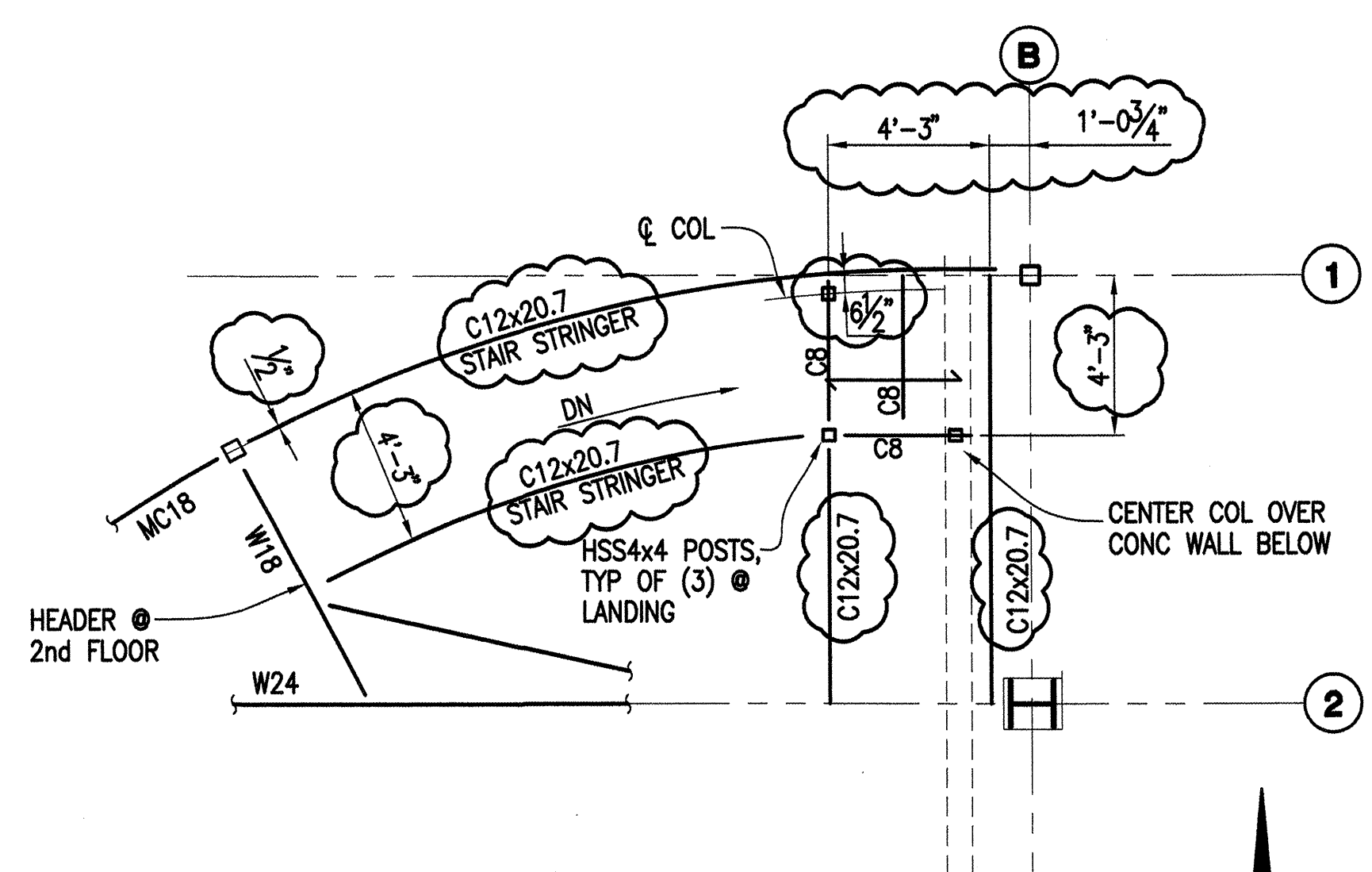
NOTE: DIMENSIONS SHOW TO ϕ WF BEAMS
 & TO BACKS OF CHANNELS.

PARTIAL PLAN - SW STAIR TYP LANDINGS
 S3.1 SCALE 1/4" = 1'-0"



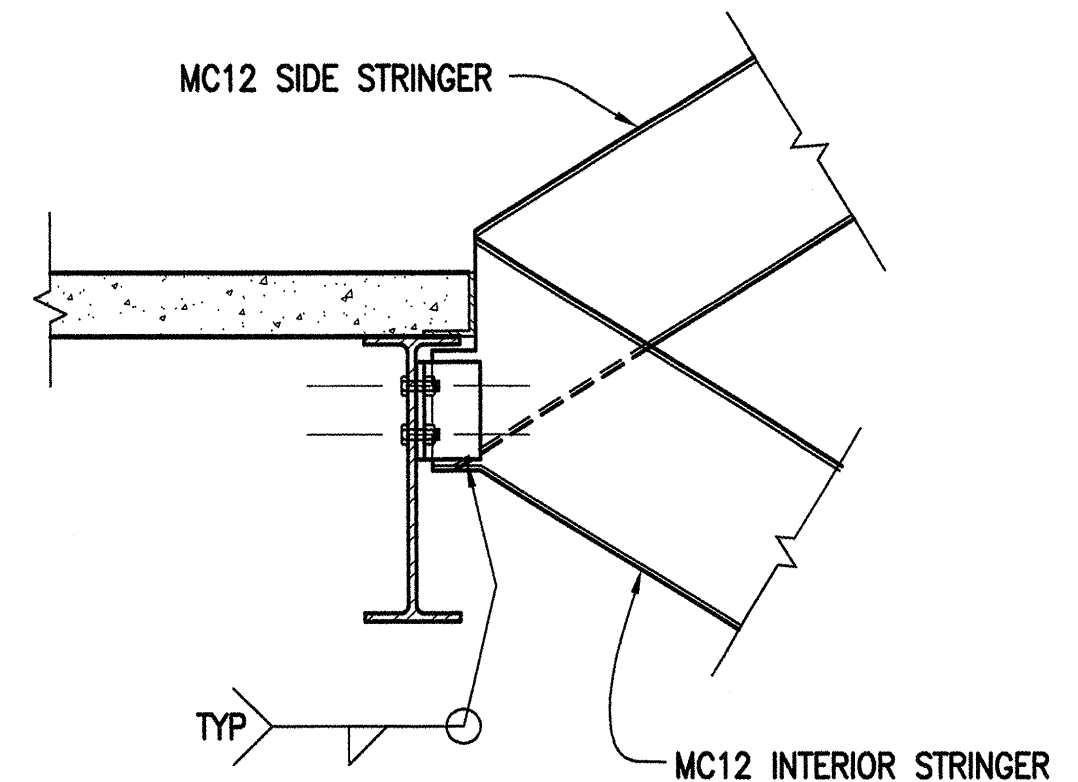
NOTE: DIMENSIONS SHOW TO ϕ WF BEAMS
 & TO BACKS OF CHANNELS.

PARTIAL PLAN - NE STAIR TYP LANDING
 S3.1 SCALE 1/4" = 1'-0"

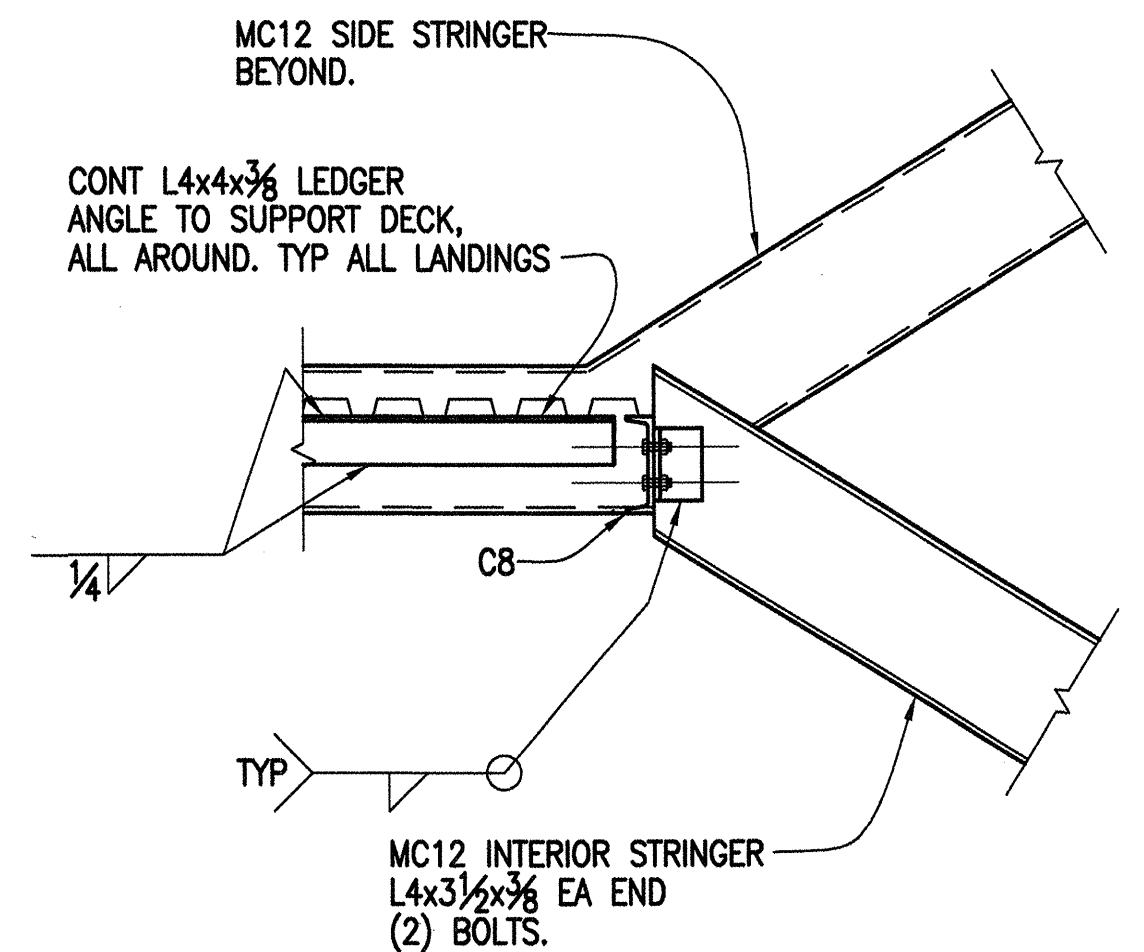


NOTE: DIMENSIONS SHOW TO ϕ WF BEAMS
 AND TO BACKS OF CHANNELS.

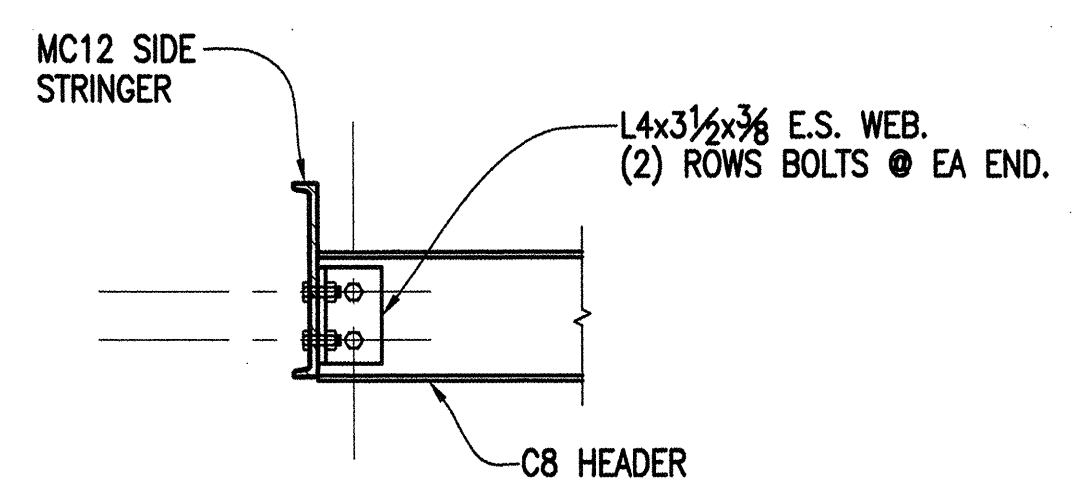
PARTIAL PLAN - LOBBY STAIR
 S3.1 SCALE 1/4" = 1'-0"



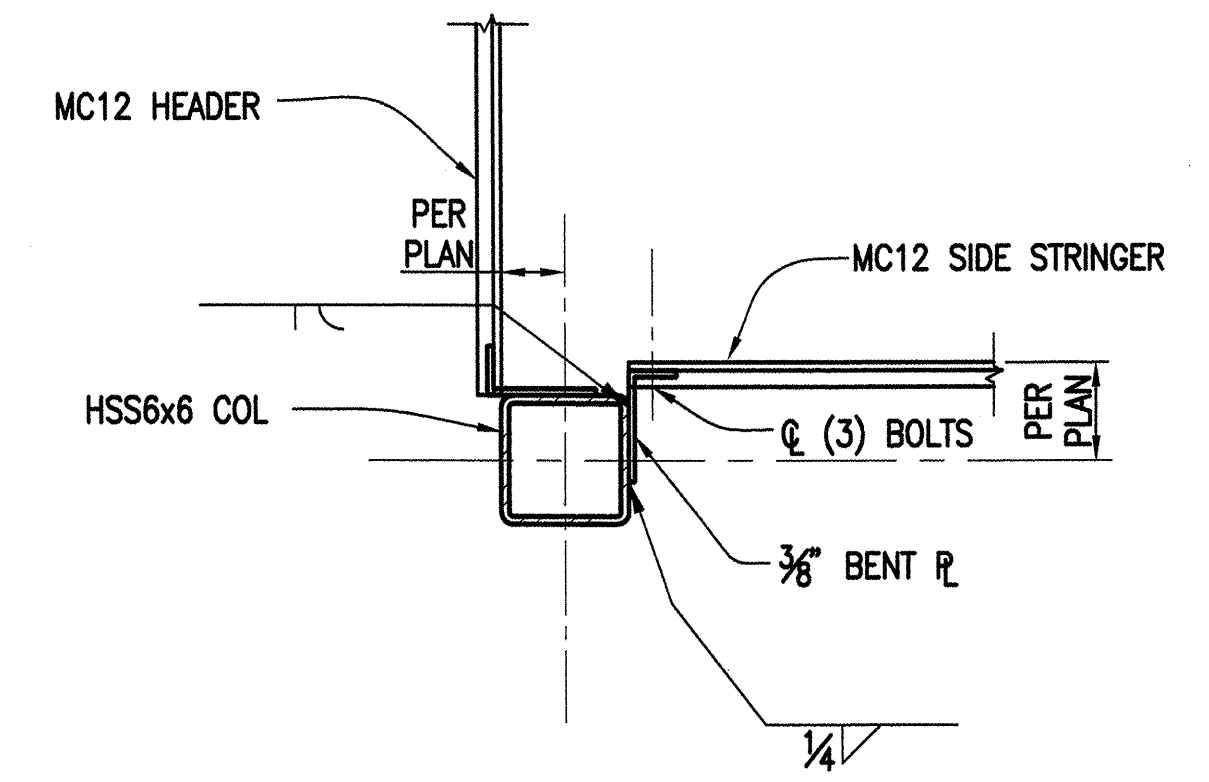
4 W18 CONNECTION
 S3.1 SCALE 1" = 1'-0"



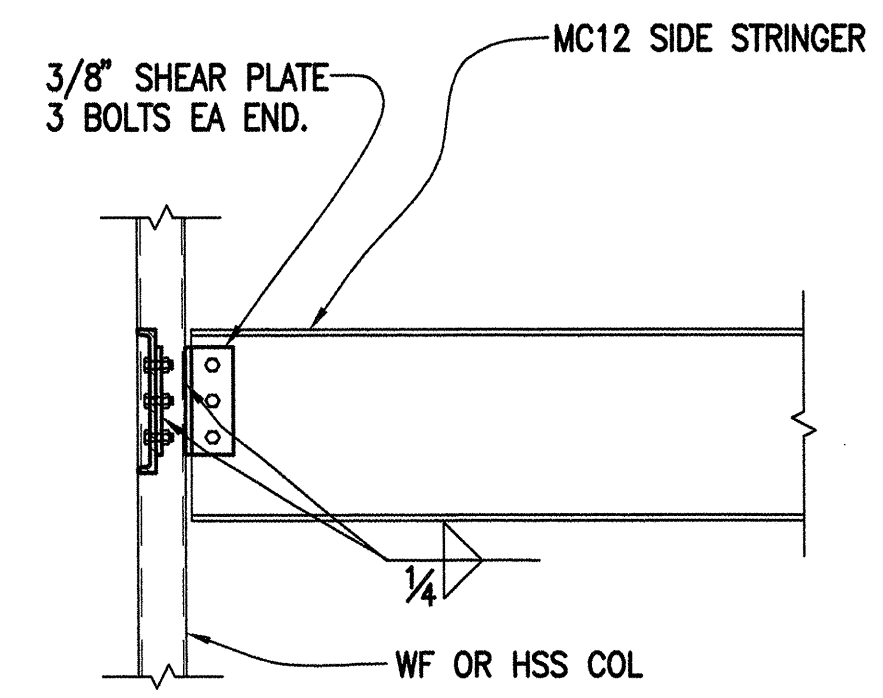
5 MC12 TO C8
 S3.1 SCALE 3/4" = 1'-0"



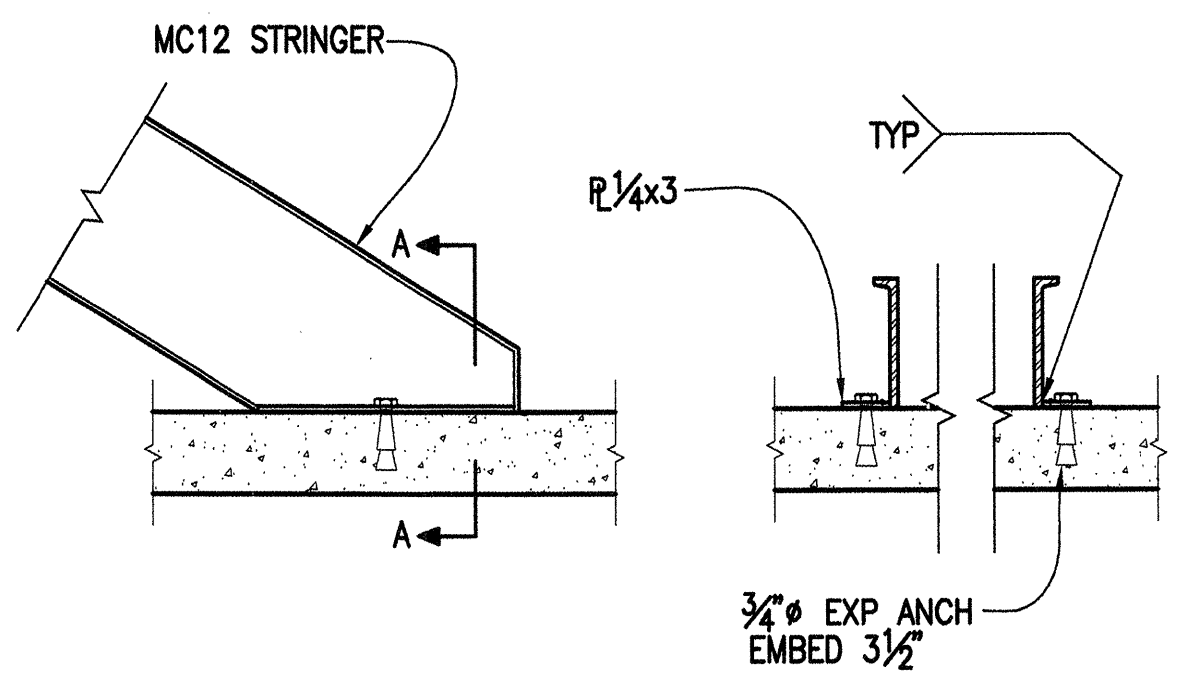
6 C8 TO SIDE STRINGER
 S3.1 SCALE 1" = 1'-0"



7 OFFSET MC12 TO HSS COL
 S3.1 SCALE 1" = 1'-0" SIM ϕ WF COLS

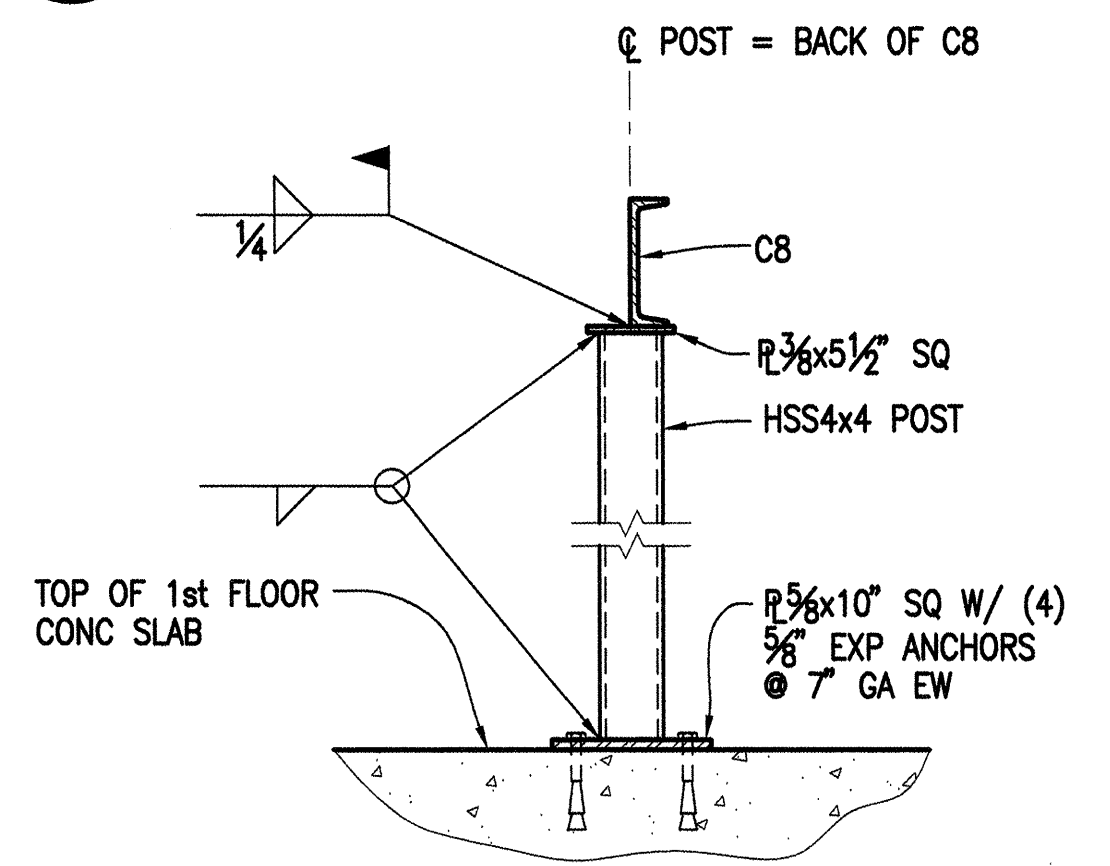


8 TYP MC12 TO COL CONNECTION
 S3.1 SCALE 3/4" = 1'-0"

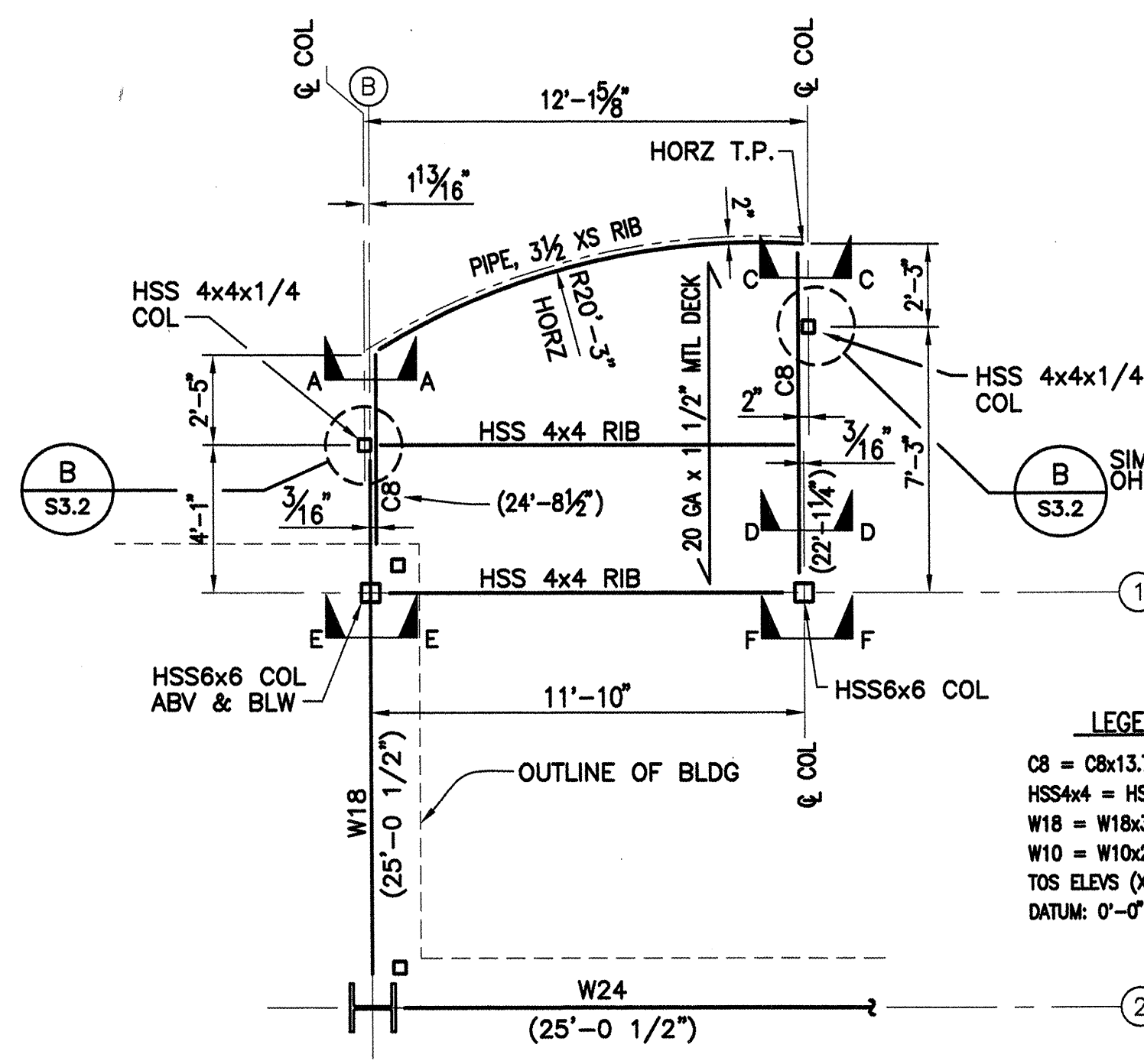


9 CONCRETE CONNECTION
 S3.1 SCALE 1" = 1'-0"

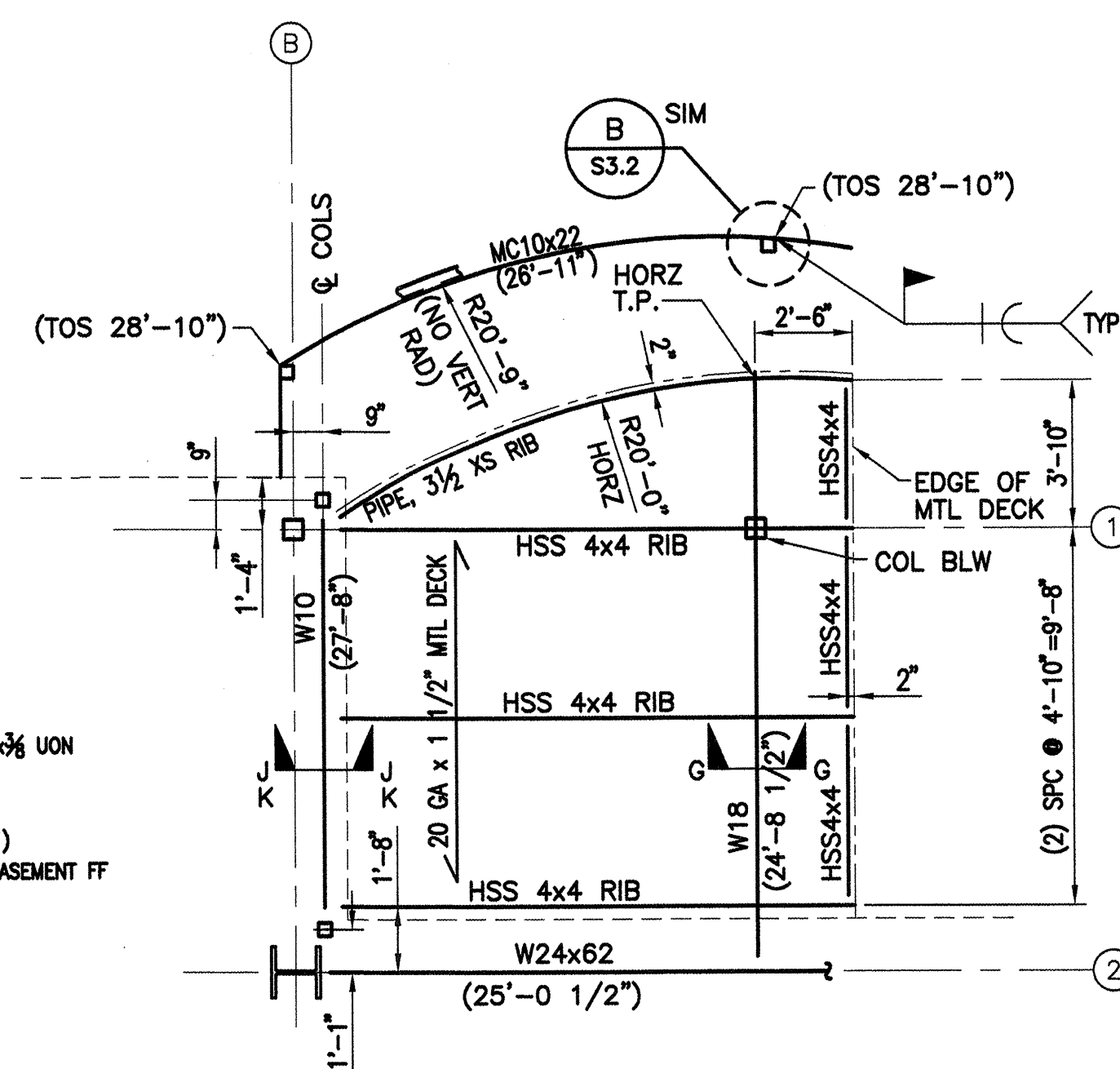
SECT A-A



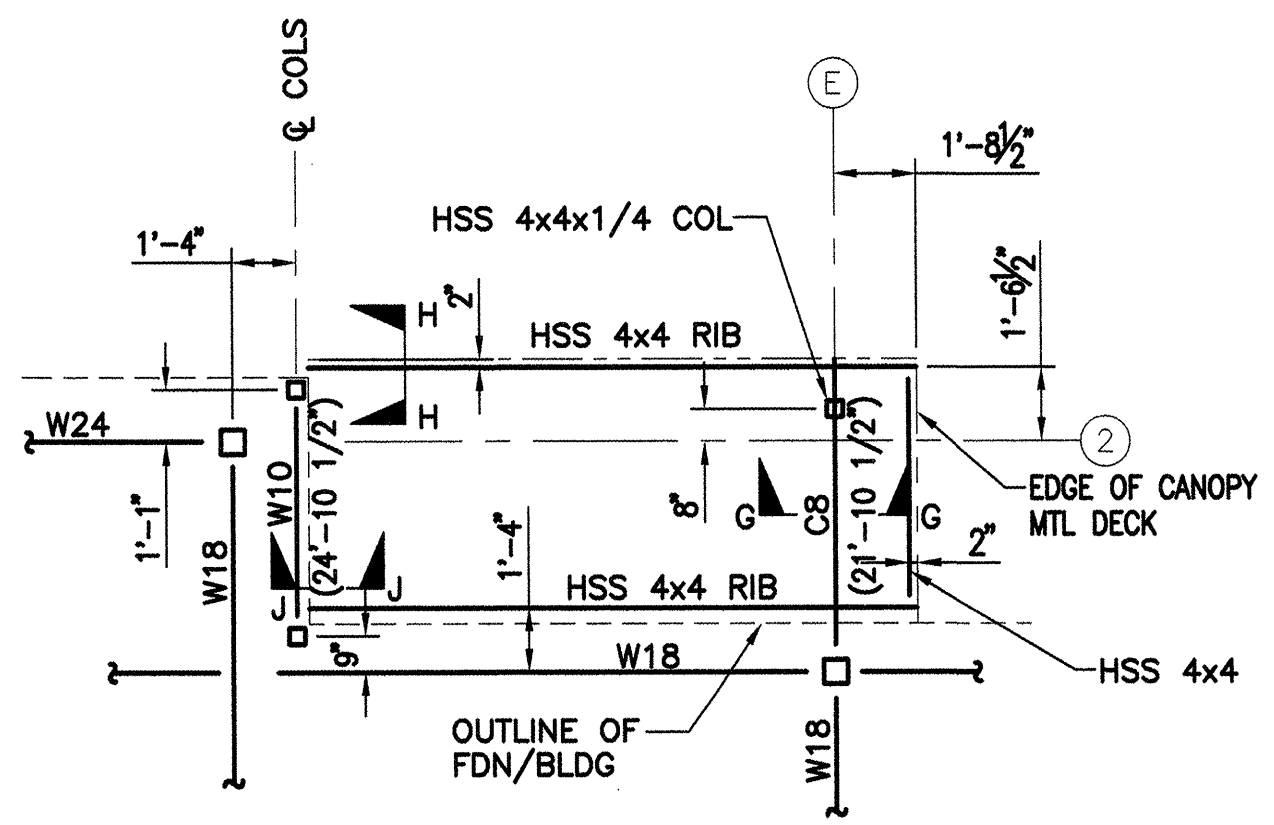
10 LOBBY STAIR LANDING POSTS
 S3.1 SCALE 1" = 1'-0" TYP OF (2) SIM BASE ϕ (1)



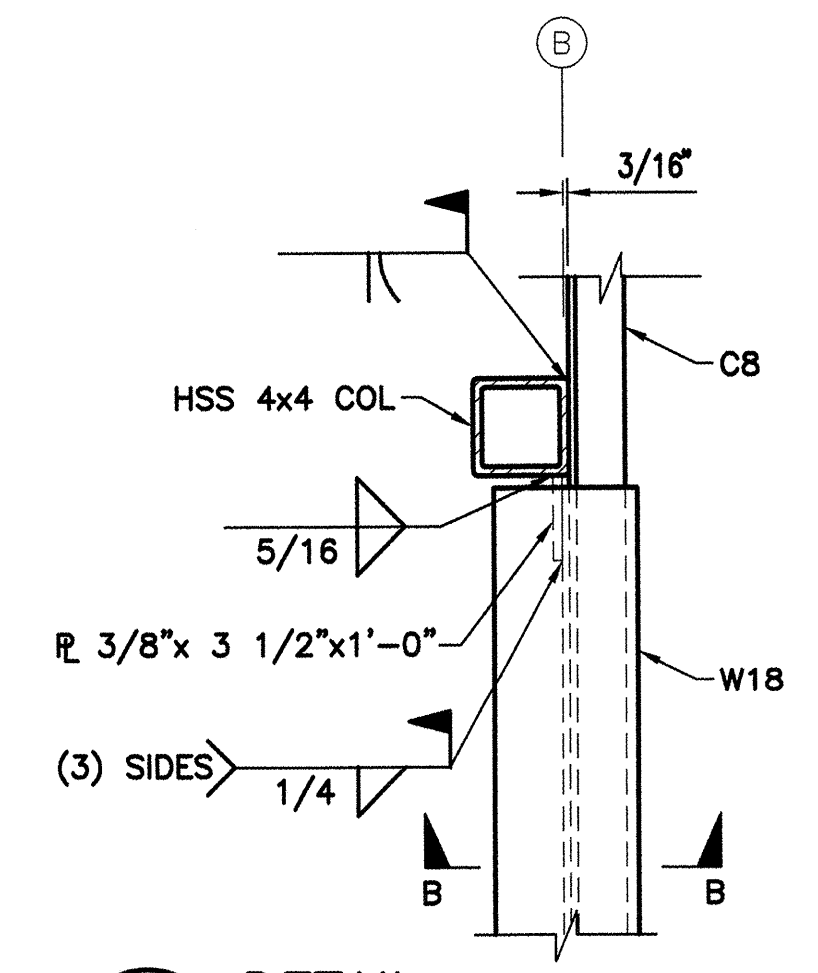
1A MAIN ENTRY PARTIAL PLAN LOWER CANOPY FRAMING
S3.2 SCALE 1/4" = 1'-0"



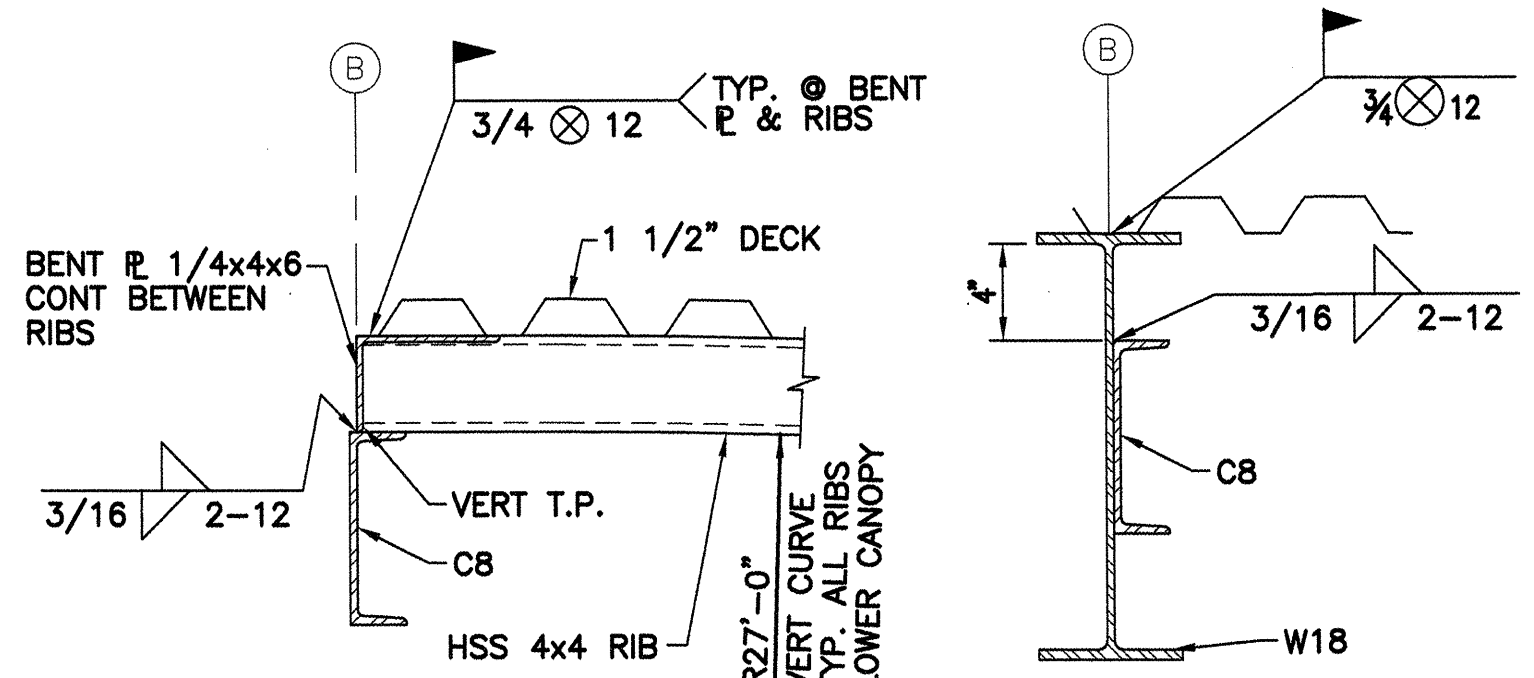
1B MAIN ENTRY PARTIAL PLAN UPPER CANOPY FRAMING
S3.2 SCALE 1/4" = 1'-0"



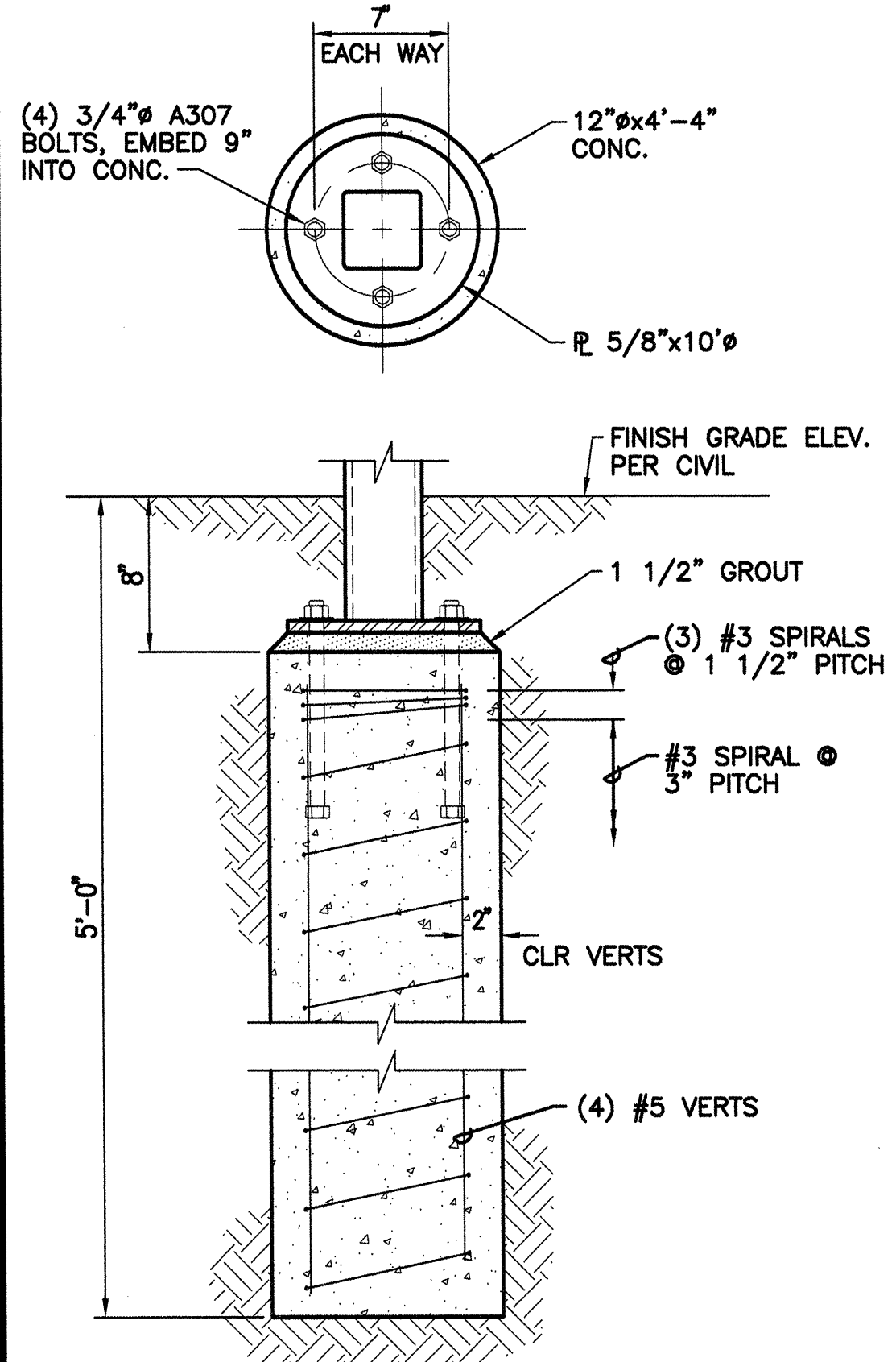
2 SIDE ENTRY FRAMING PLAN
S3.2 SCALE 1/4" = 1'-0"



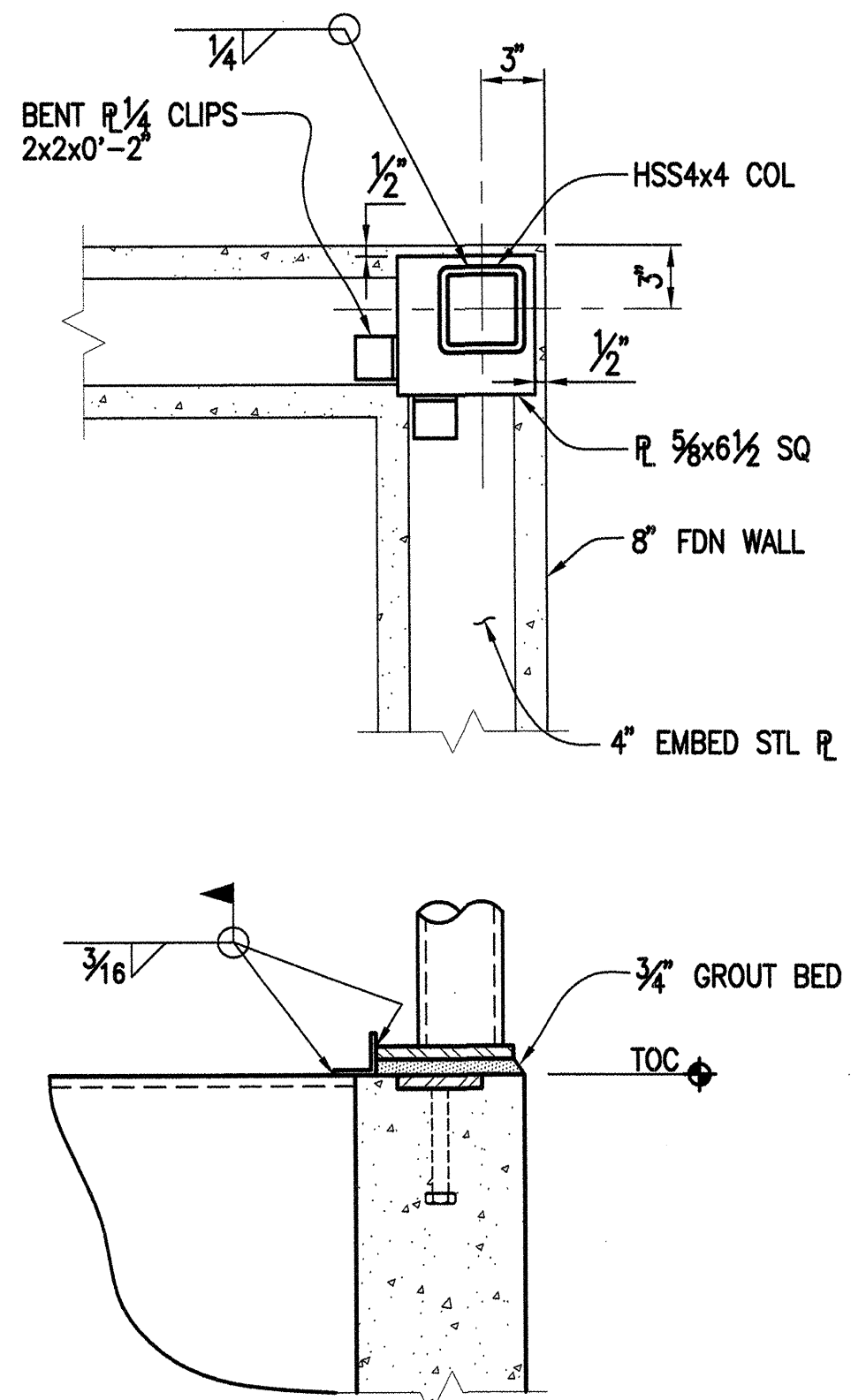
B DETAIL
S3.2 SCALE 1/2" = 1'-0"



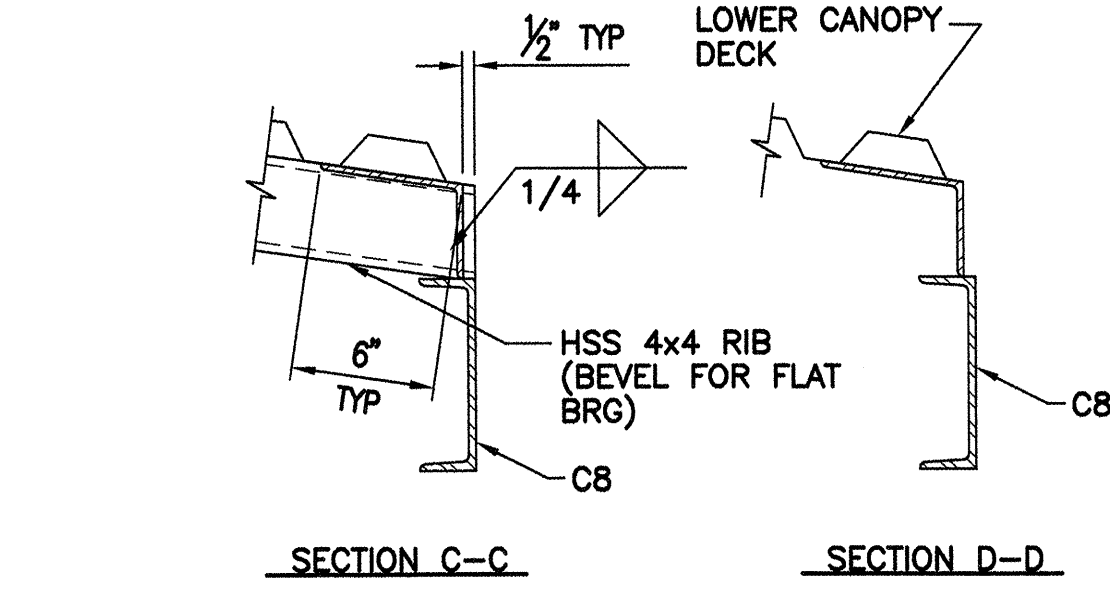
3 SECTION A-A SCALE 1 1/2" = 1'-0"
4 SECTION B-B SCALE 1 1/2" = 1'-0"



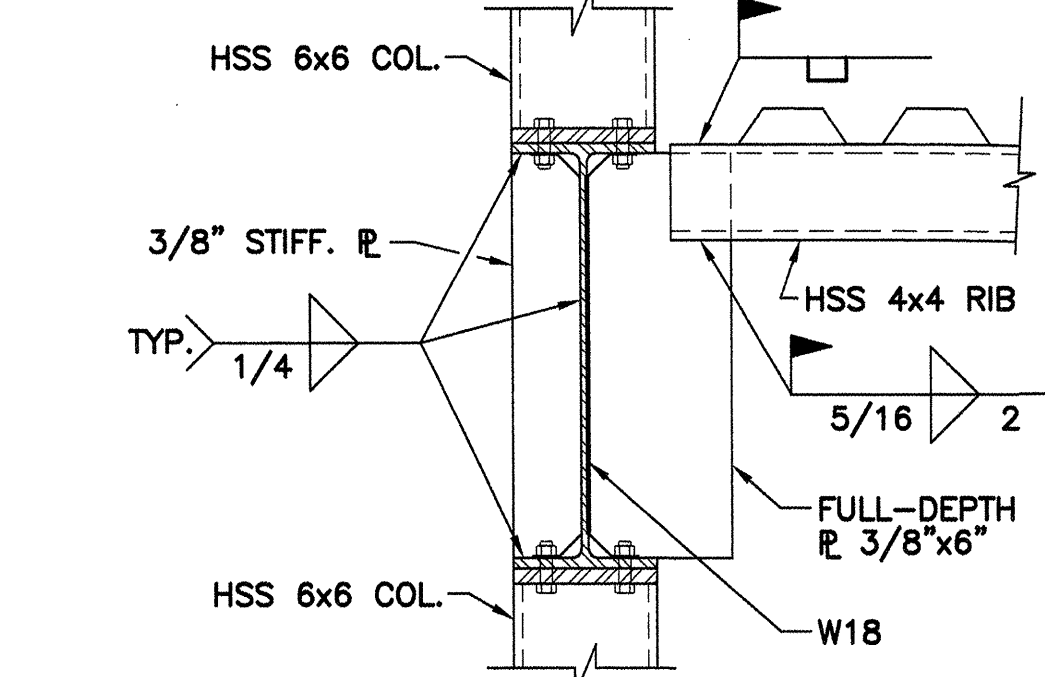
C EXTERIOR CANOPY POST BASE
S3.2 SCALE 1 1/2" = 1'-0"



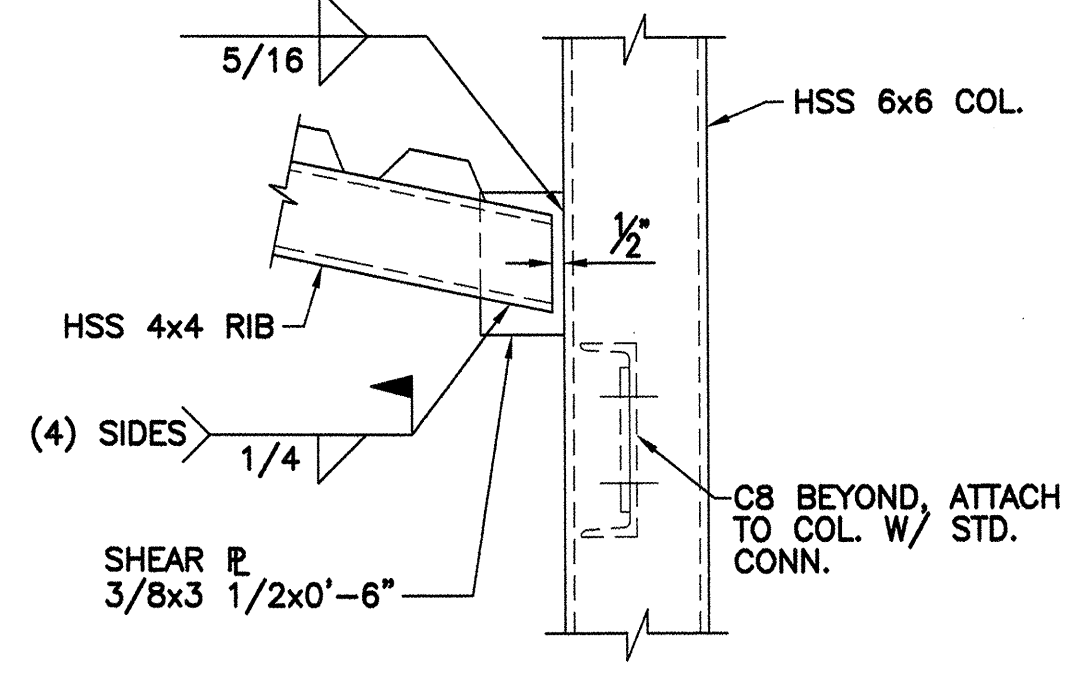
D INT ENTRY COL SUPP BASE
S3.2 SCALE 1 1/2" = 1'-0" TYP/SIM (4) LOC



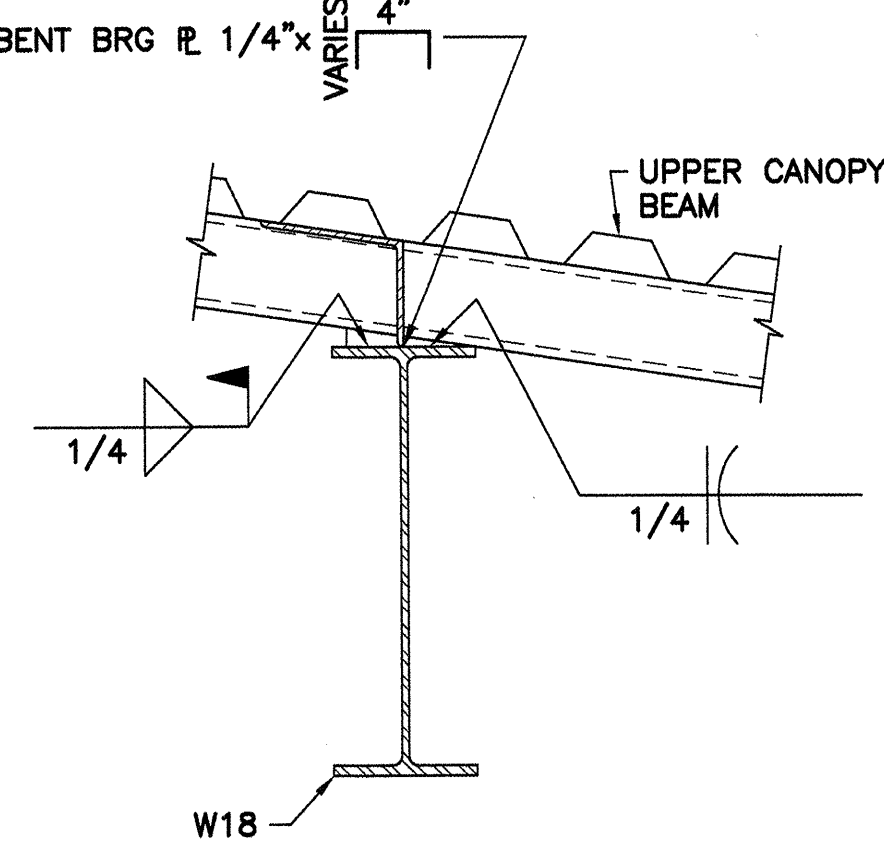
5 SECTION C-C & D-D
S3.2 SCALE 1 1/2" = 1'-0"



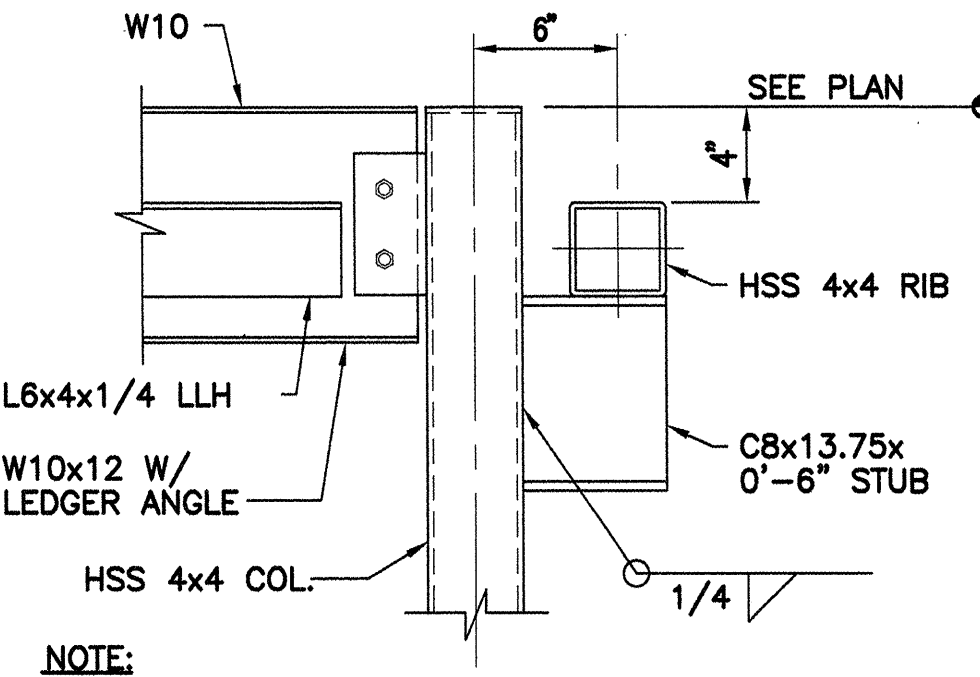
6 SECTION E-E
S3.2 SCALE 1 1/2" = 1'-0"



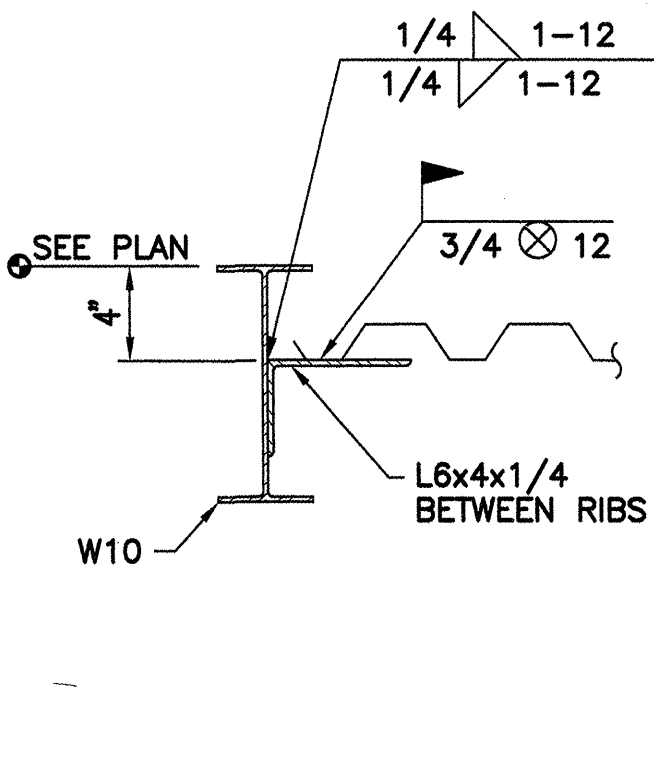
7 SECTION F-F
S3.2 SCALE 1 1/2" = 1'-0"



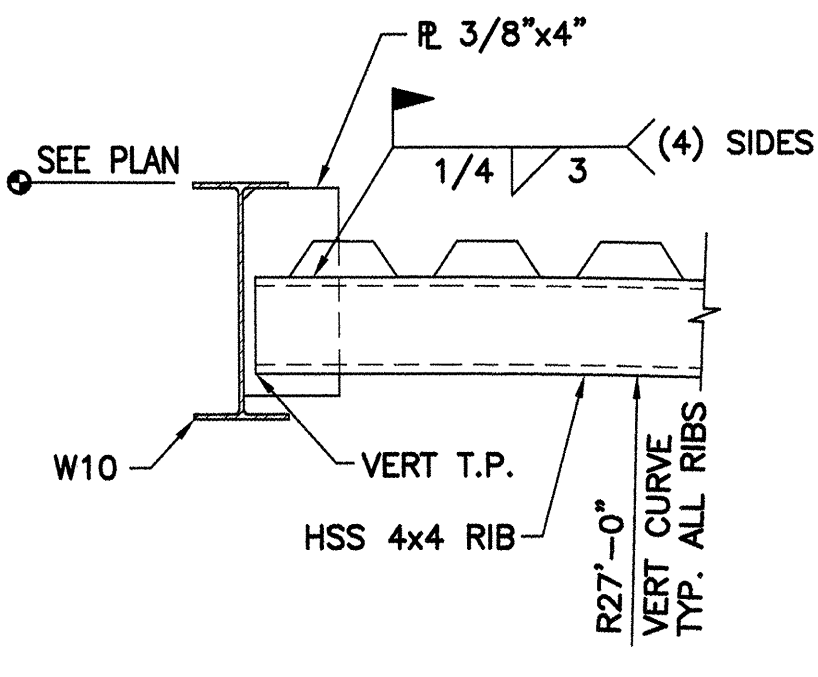
8 SECTION G-G
S3.2 SCALE 1 1/2" = 1'-0"



9 SECTION H-H
S3.2 SCALE 1 1/2" = 1'-0"



10 SECTION J-J & K-K
S3.2 SCALE 1 1/2" = 1'-0"

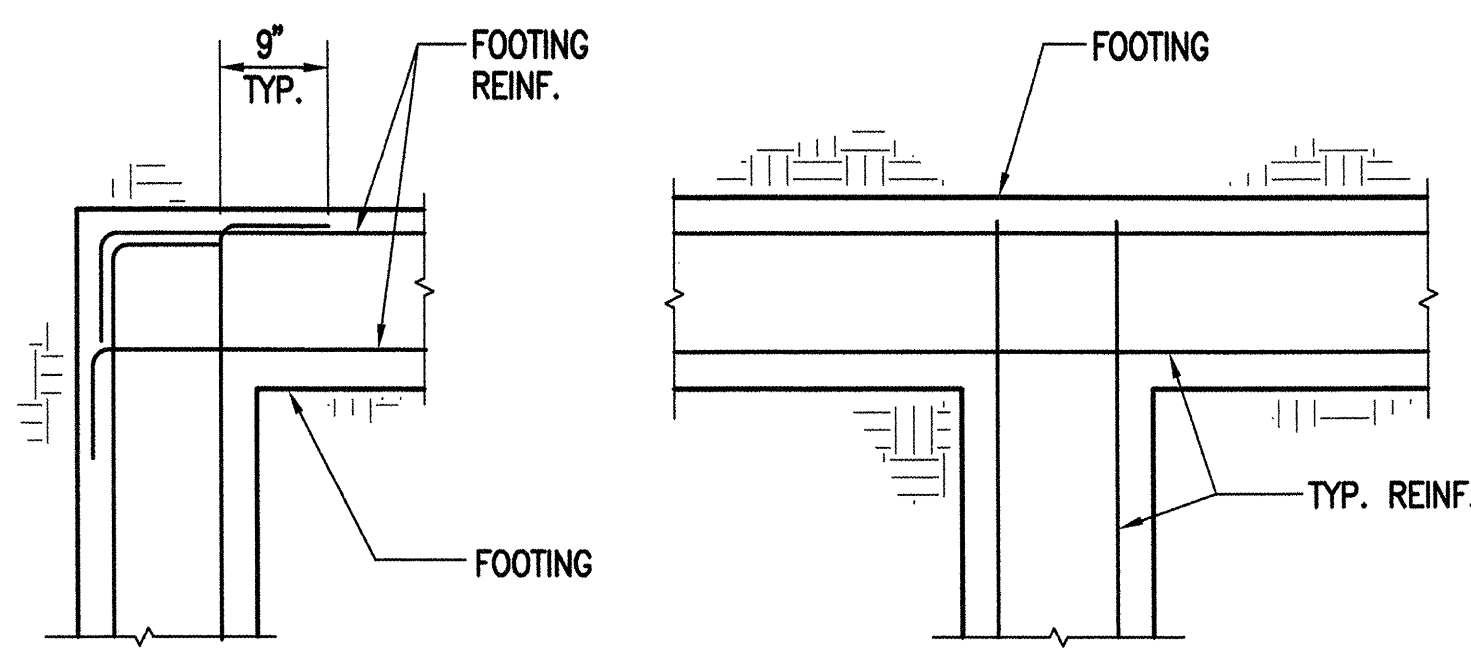


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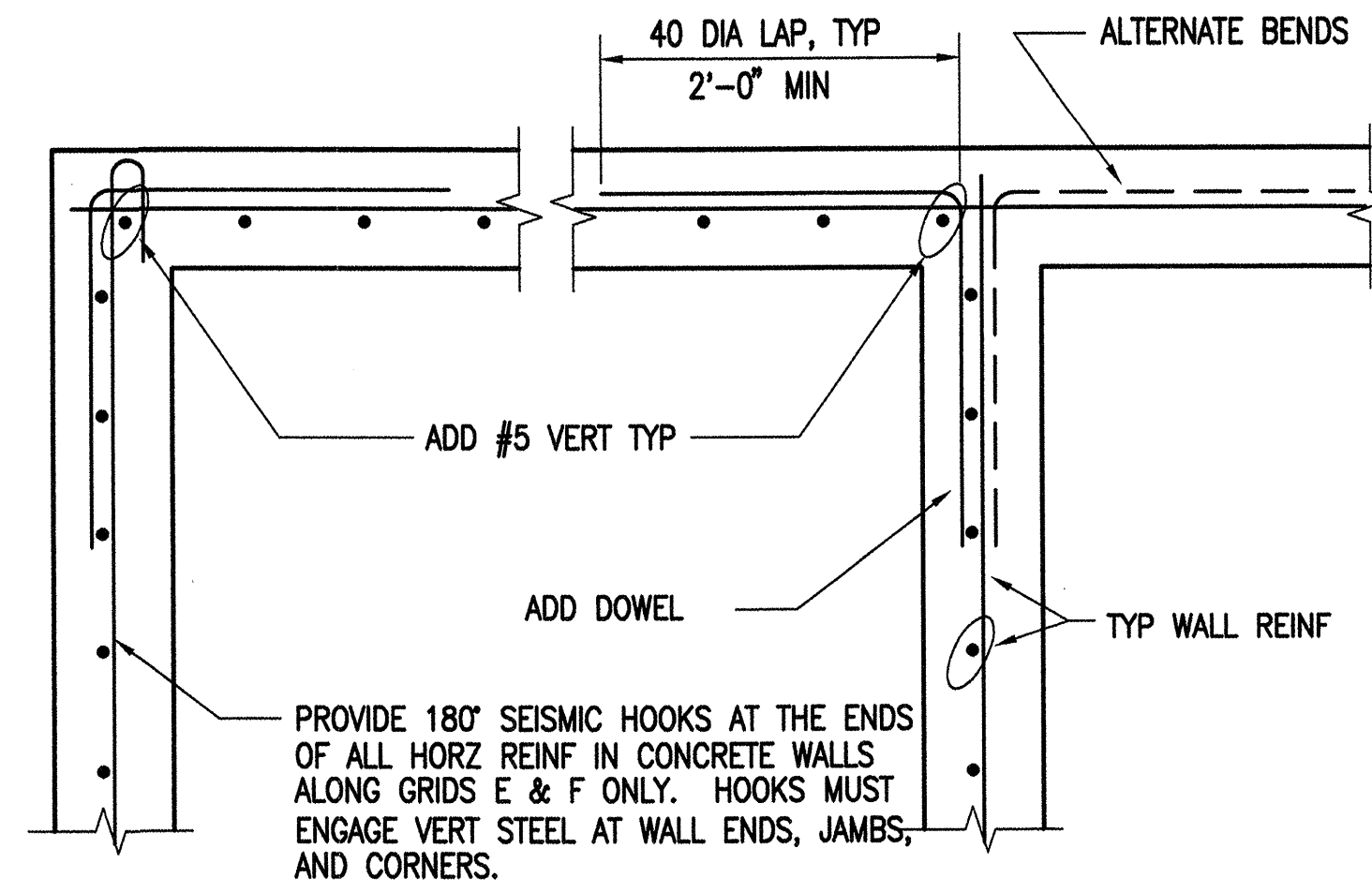
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PLAN VIEW

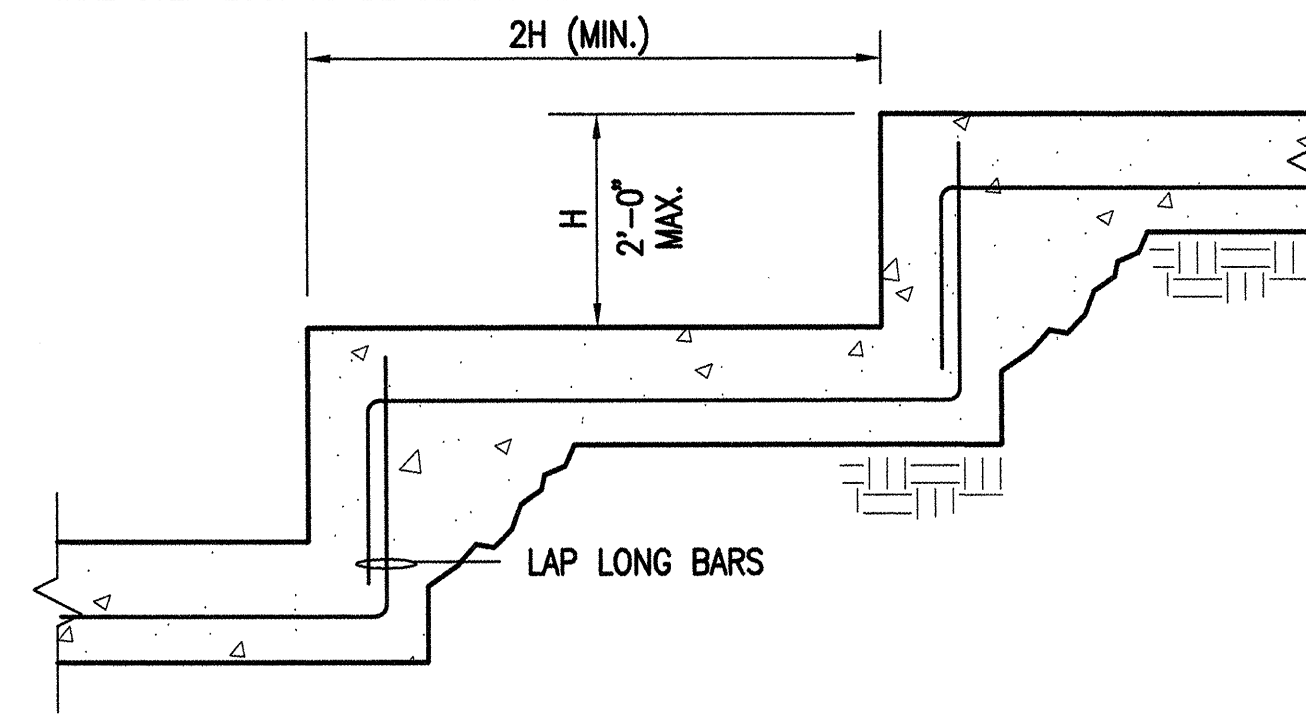
1 TYP CONCR FOOTING DETAILS
S4.1 SCALE 3/4" = 1'-0"



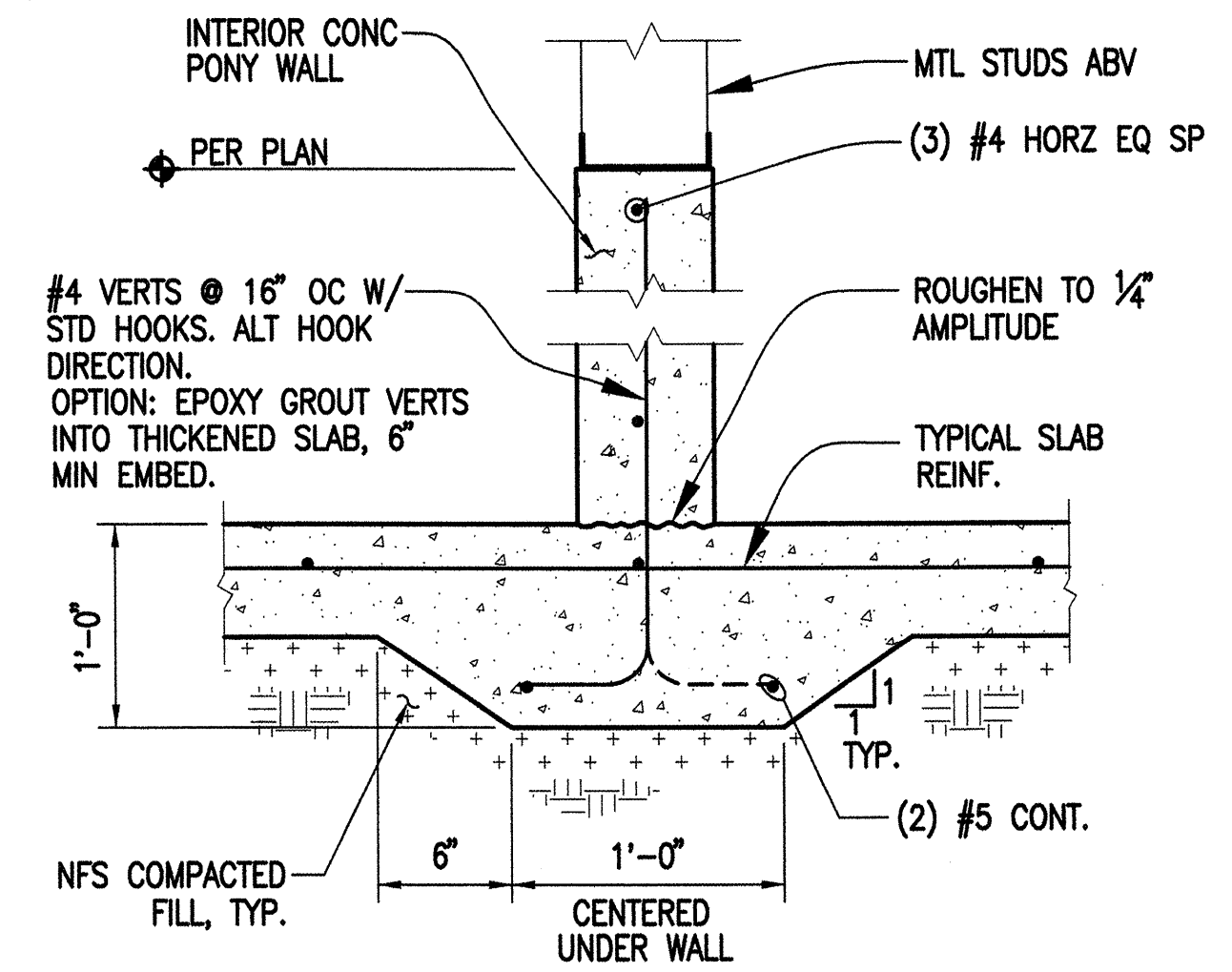
NOTE: DOWELS SHALL MATCH SIZE & SPACING OF TYP WALL REINF. TIE DOWELS TO TYP WALL & FOUNDATION REINF.

2 TYP CONCR FDN WALL PLAN
S4.1 SCALE 1" = 1'-0"

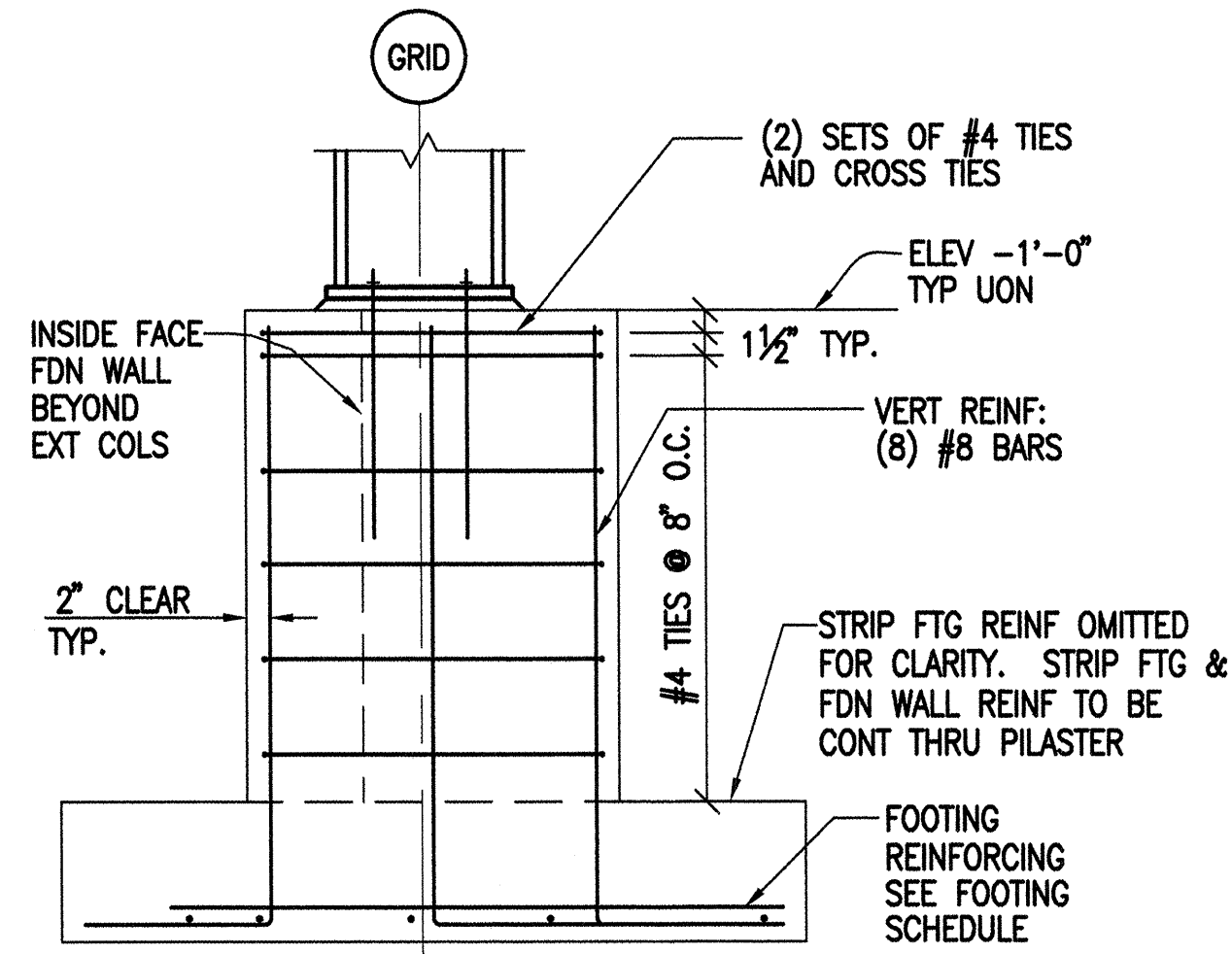
NOTES
SEE FOUNDATION PLANS FOR APPROX. STEP LOCATIONS. ALSO REFER TO CIVIL PLANS. MAINTAIN MINIMUM REQ'D SOIL COVER OVER FOOTINGS. FINAL STEP LOC. TO BE DETERMINED BY CONTRACTOR.



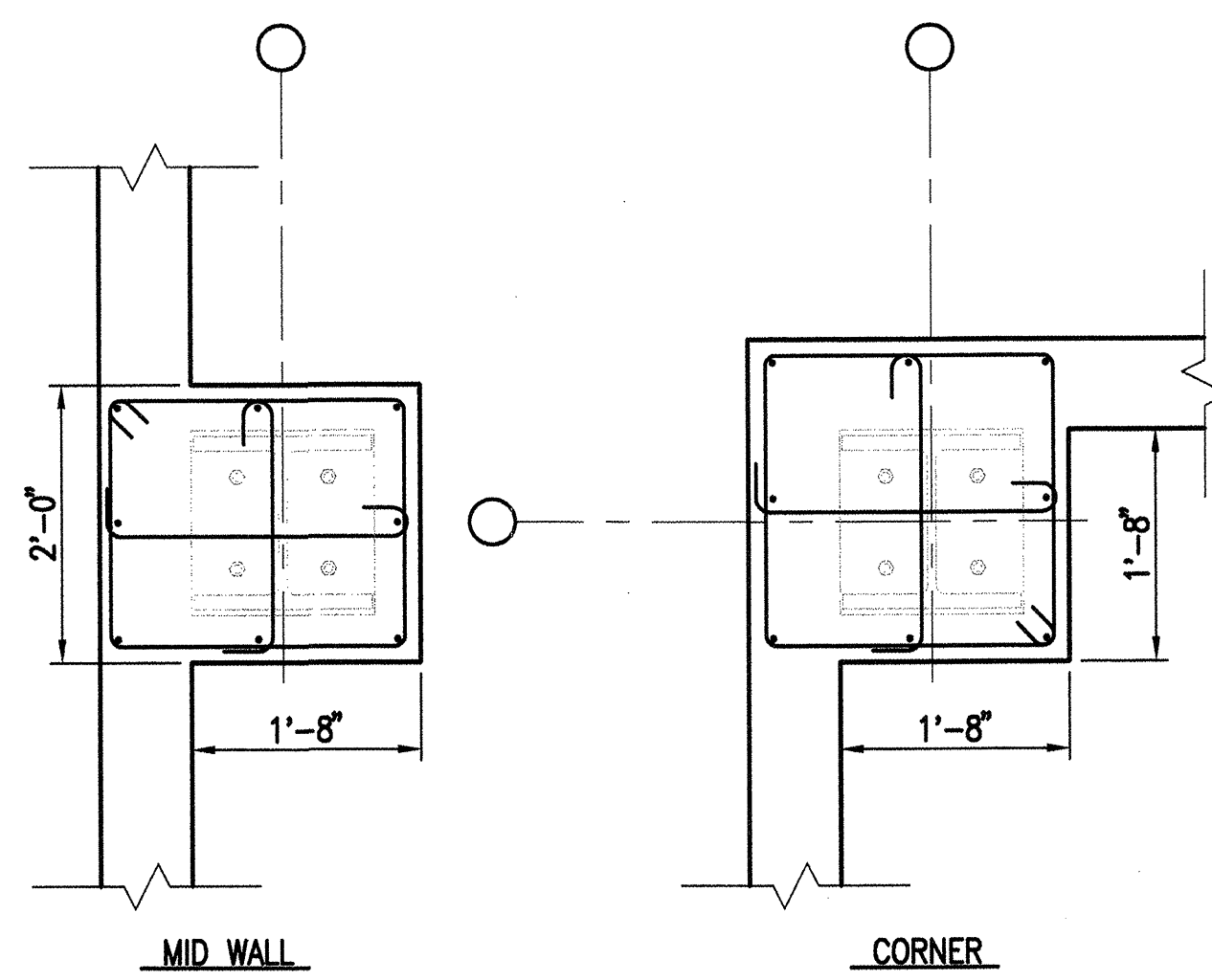
3 TYP STEPPED FTG
S4.1 SCALE 3/4" = 1'-0"



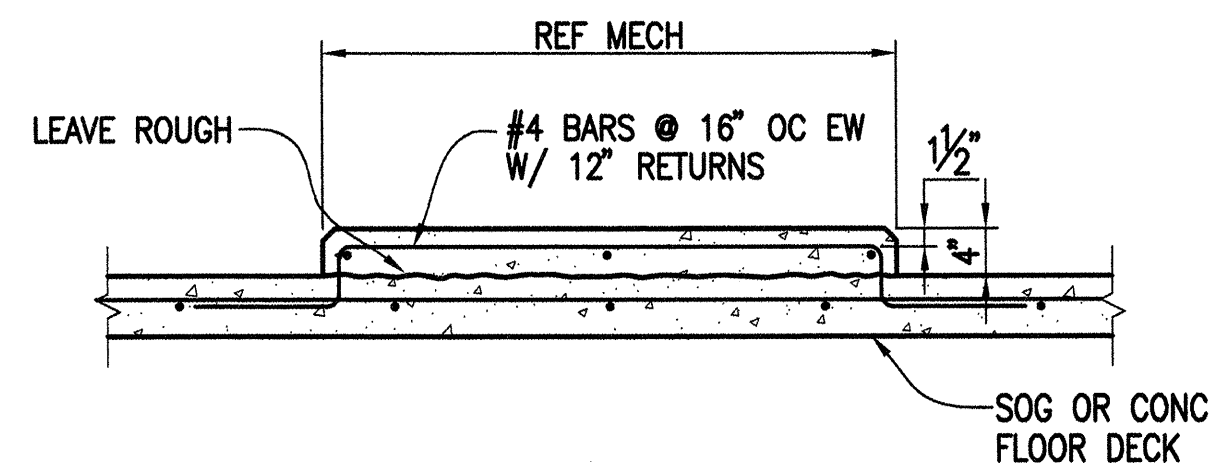
4 THICKENED SLAB
S4.1 SCALE 1 1/2" = 1'-0"



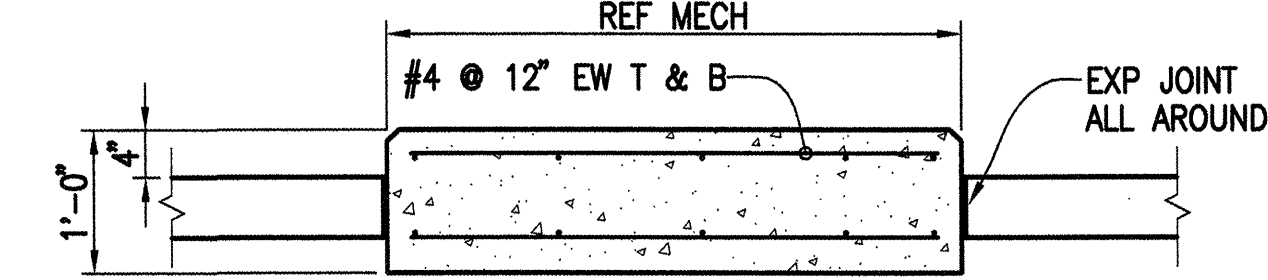
5 TYP PILASTER REINF
S4.1 SCALE 3/4" = 1'-0"



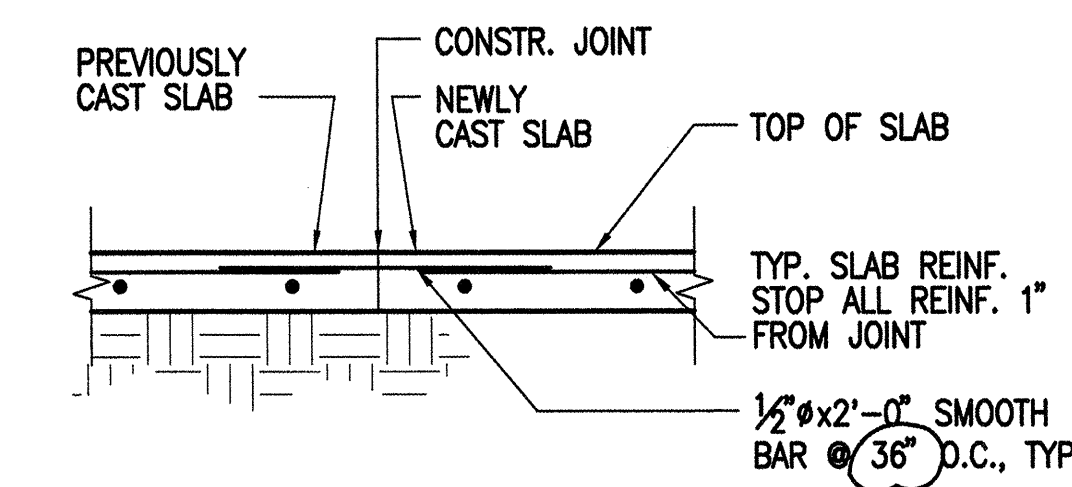
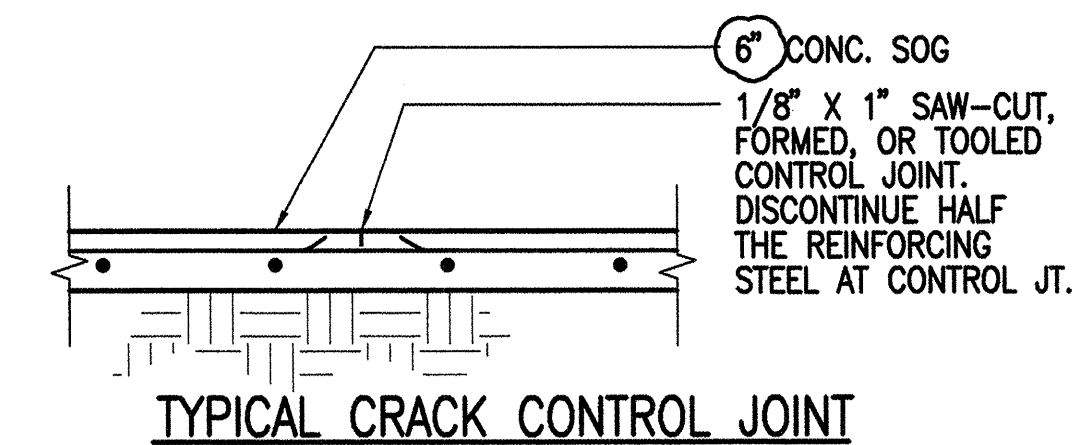
6 TYP PILASTER PLAN
S4.1 SCALE 3/4" = 1'-0"



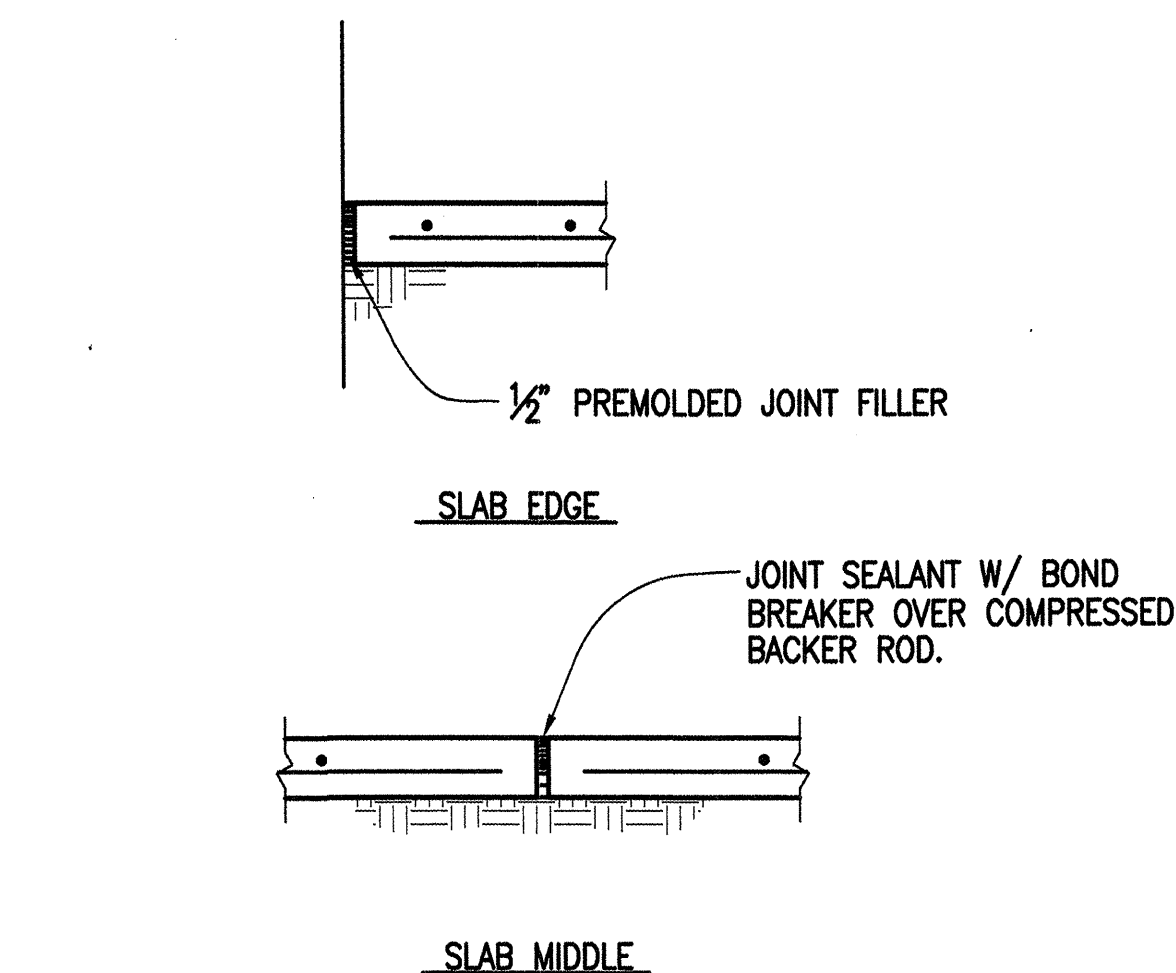
7 TYP HOUSEKEEPING PAD
S4.1 SCALE 3/4" = 1'-0"



8 GENERATOR PAD
S4.1 SCALE 3/4" = 1'-0"

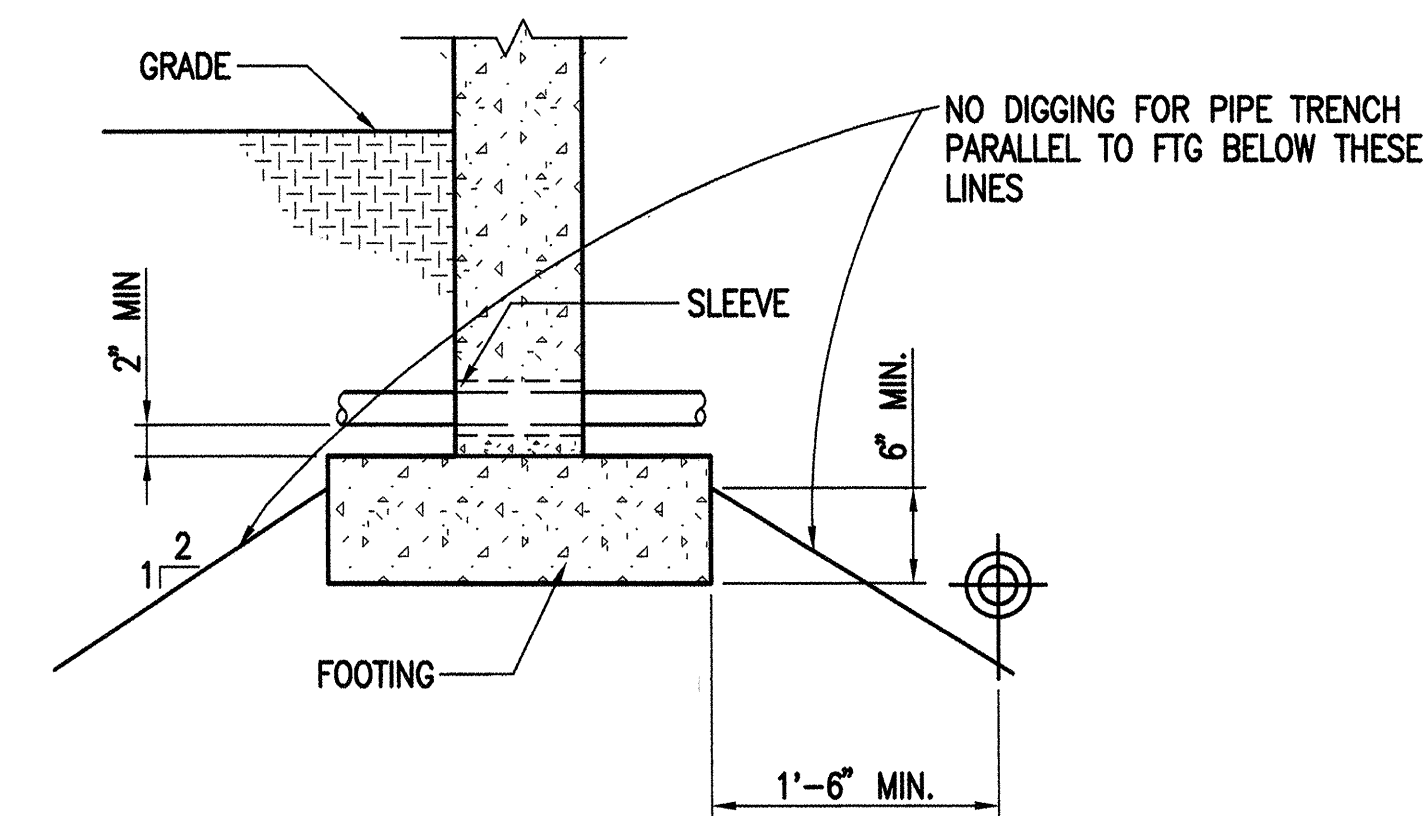


9 TYP SOG JOINT DETAILS
S4.1 SCALE 3/4" = 1'-0"



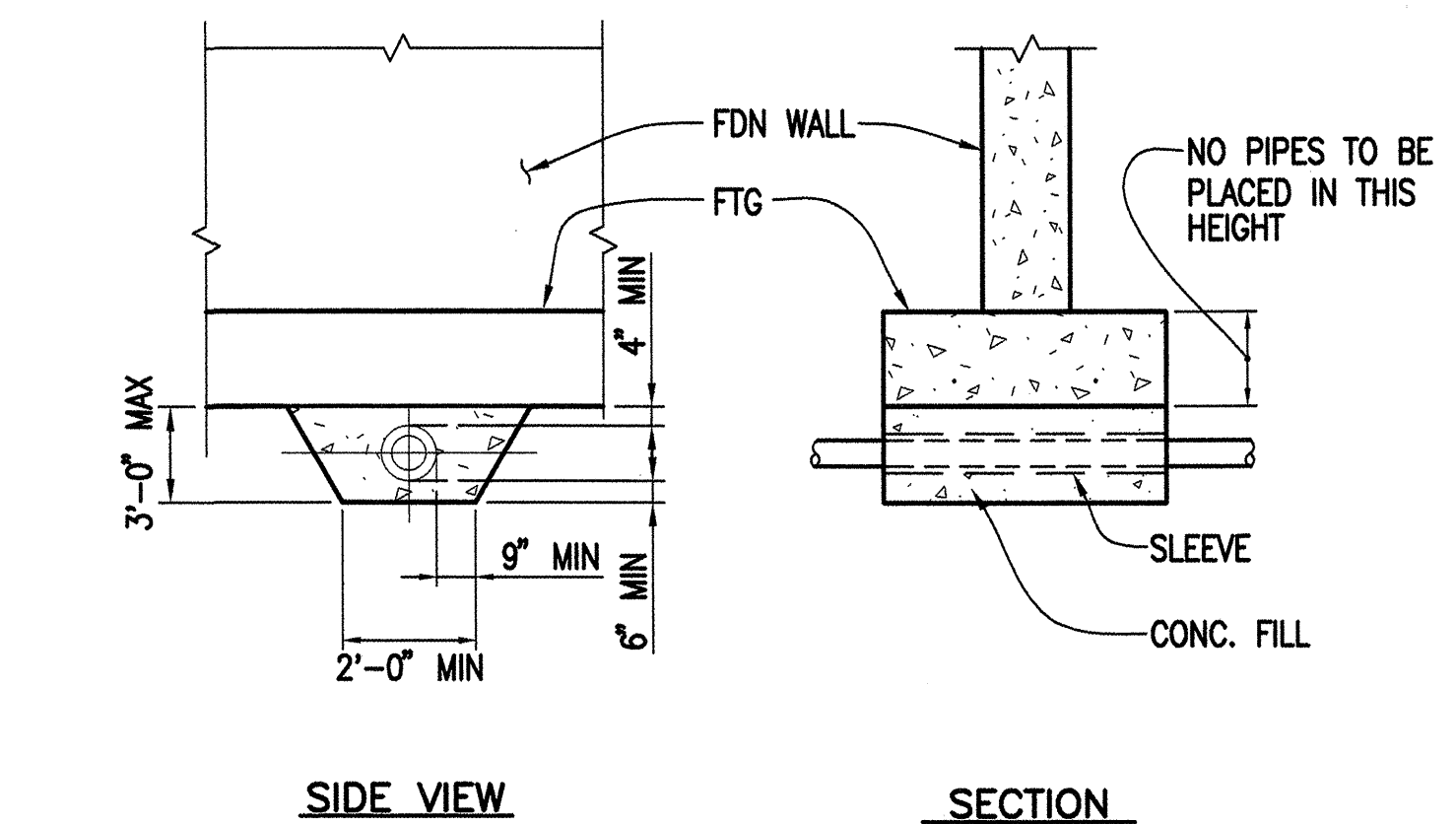
10 EXPANSION JOINT
S4.1 SCALE 3/4" = 1'-0"

NOTE
ALL PIPES TO CLEAR SLEEVES BY 1/2" Ø CAULK AS REQ'D.



11 TYP PENETRATION OF FOUNDATION WALL
S4.1 SCALE NTS

NOTE
ALL PIPES TO CLEAR SLEEVES BY 1/2" Ø ALL AROUND. CAULK AS REQ'D. NEVER TO BE MORE THAN 2'-6" BELOW BOTTOM OF FOOTING, STEP FOOTING IF REQ'D.



12 TYP PENETRATION OF FOOTING
S4.1 SCALE NTS

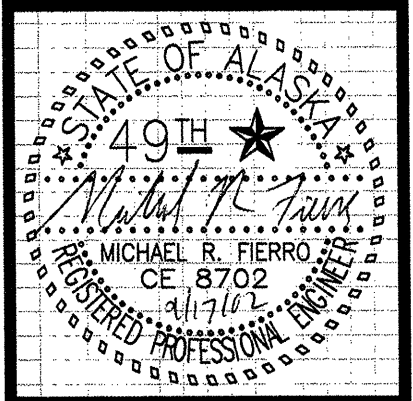


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Anchorage, Alaska 99503
Phone: 907-592-1439
Email: info@reidmiddleton.com
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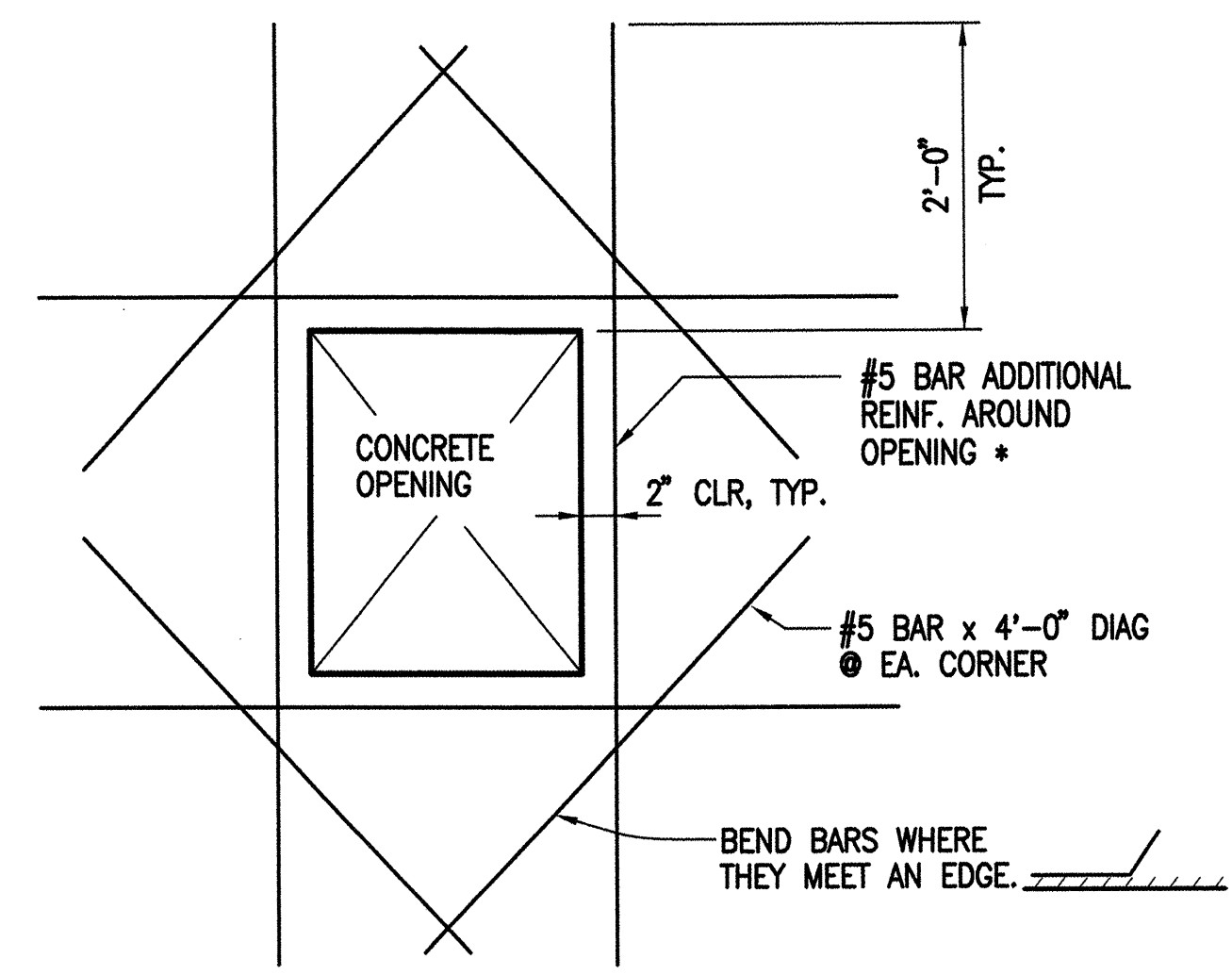
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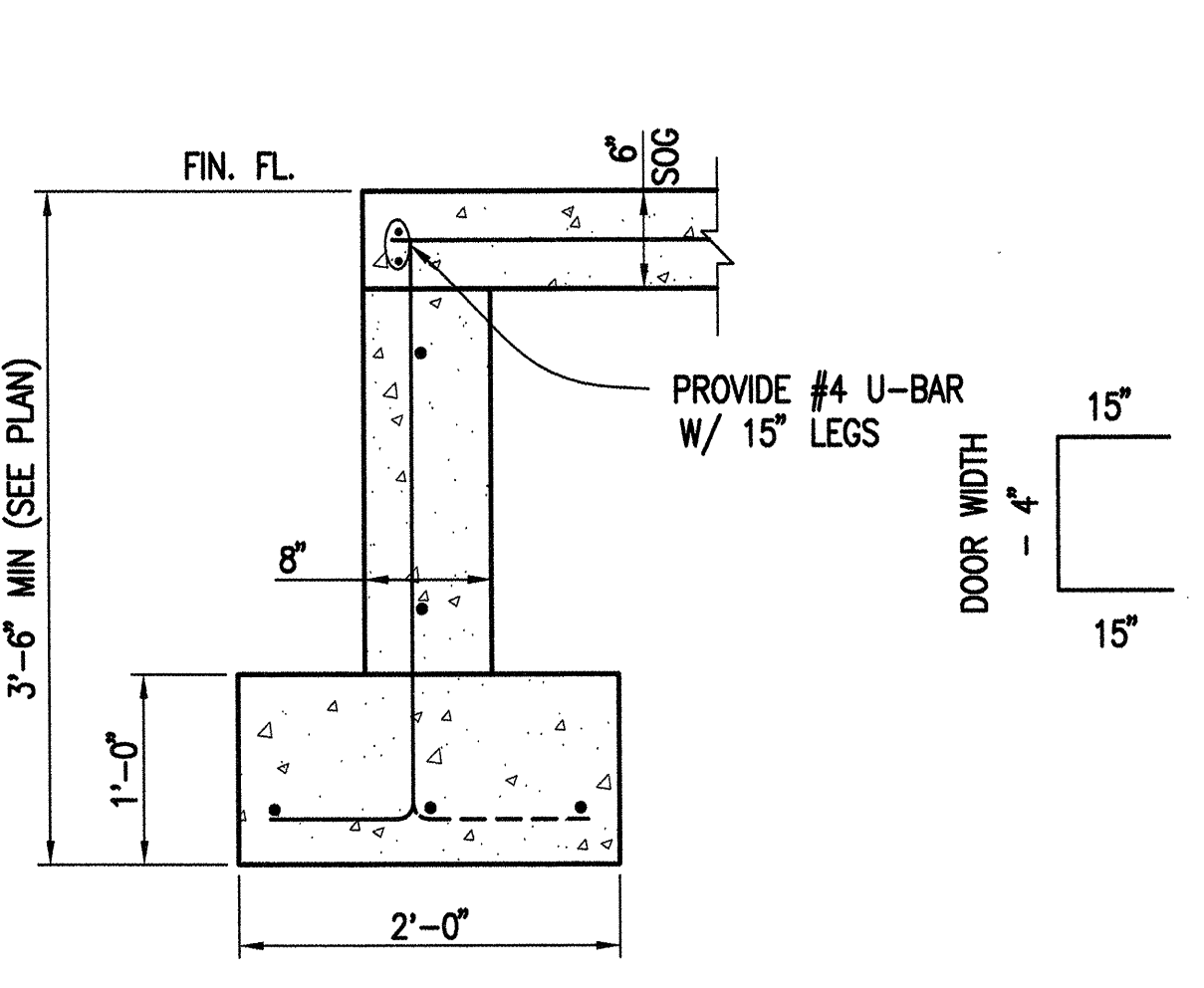
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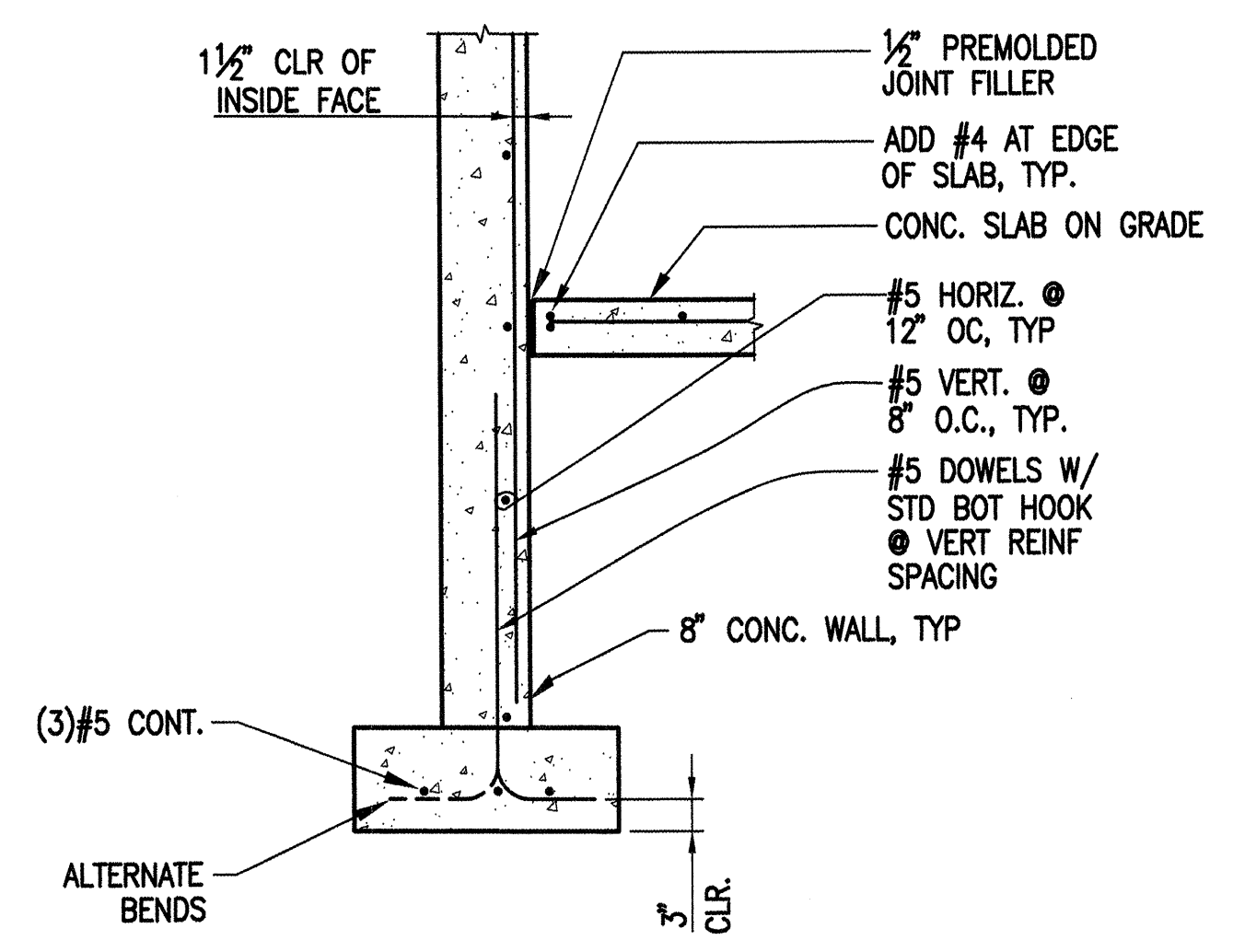
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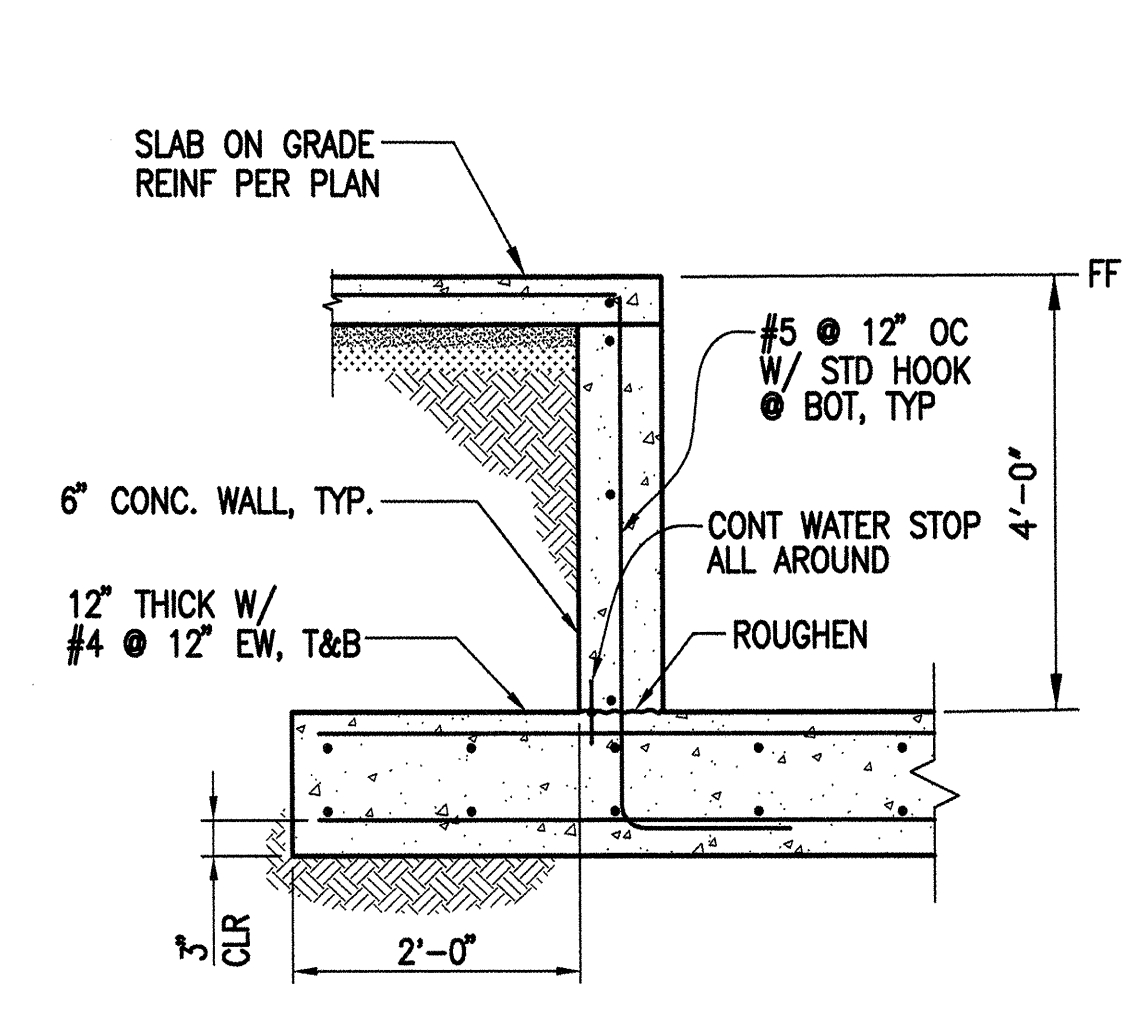
4 TYP CONC WALL/SOG OPNG
 SCALE NTS * SIM AT ENDS OF WALLS



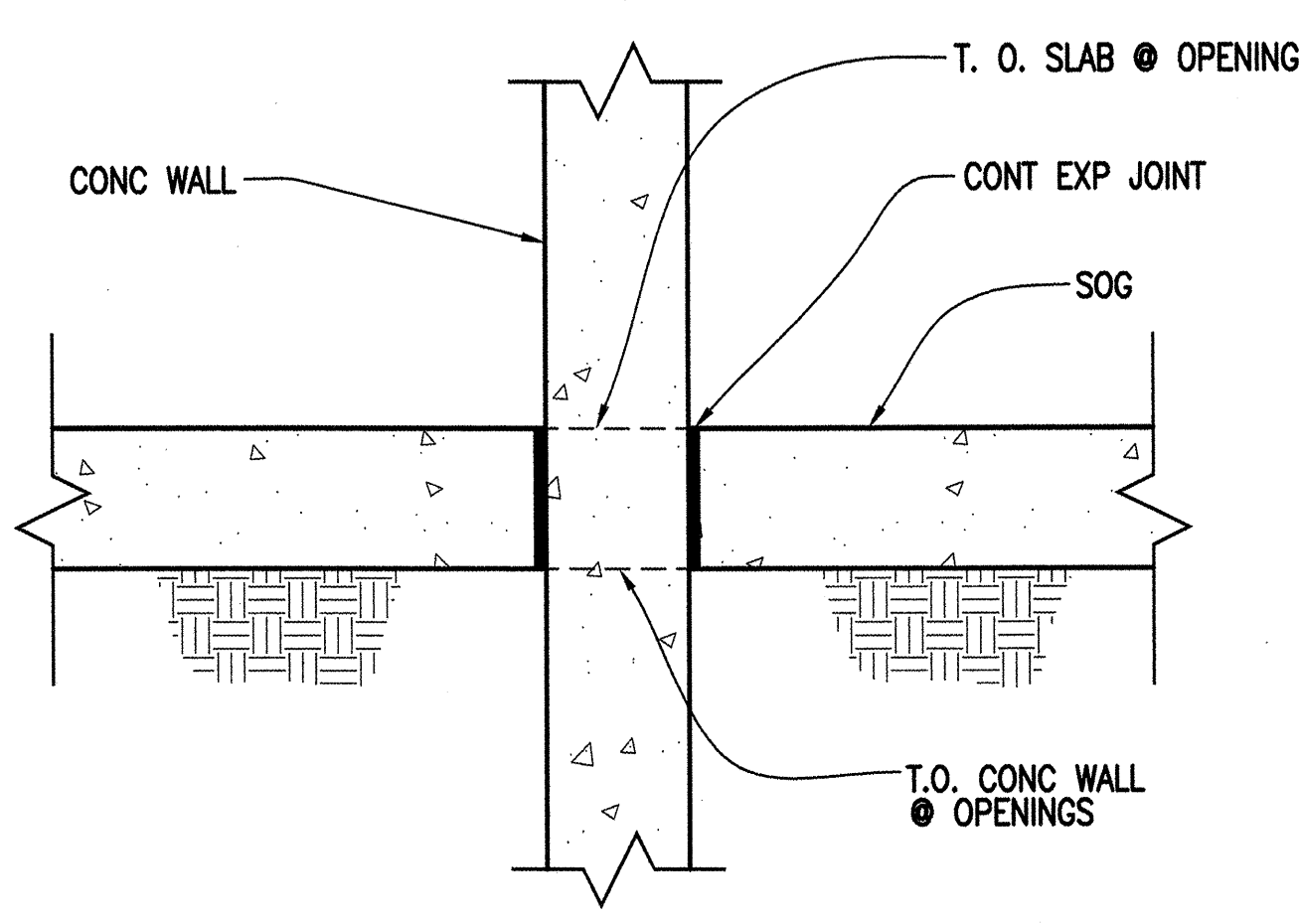
3 SECTION AT EXT DOORS @ SOG
 SCALE 1" = 1'-0"



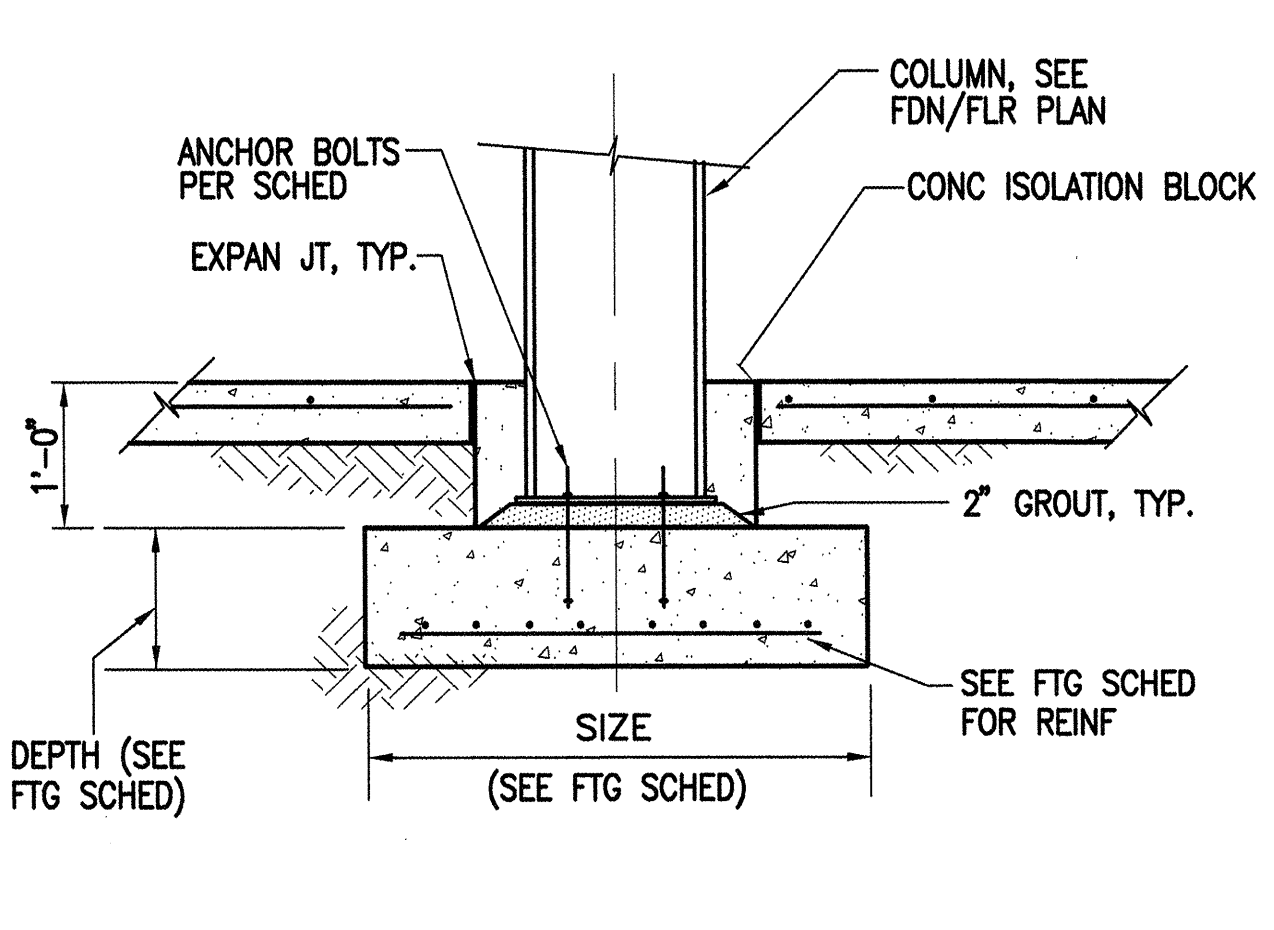
2 TYP EXT FDN WALL REINF
 SCALE 3/4" = 1'-0"



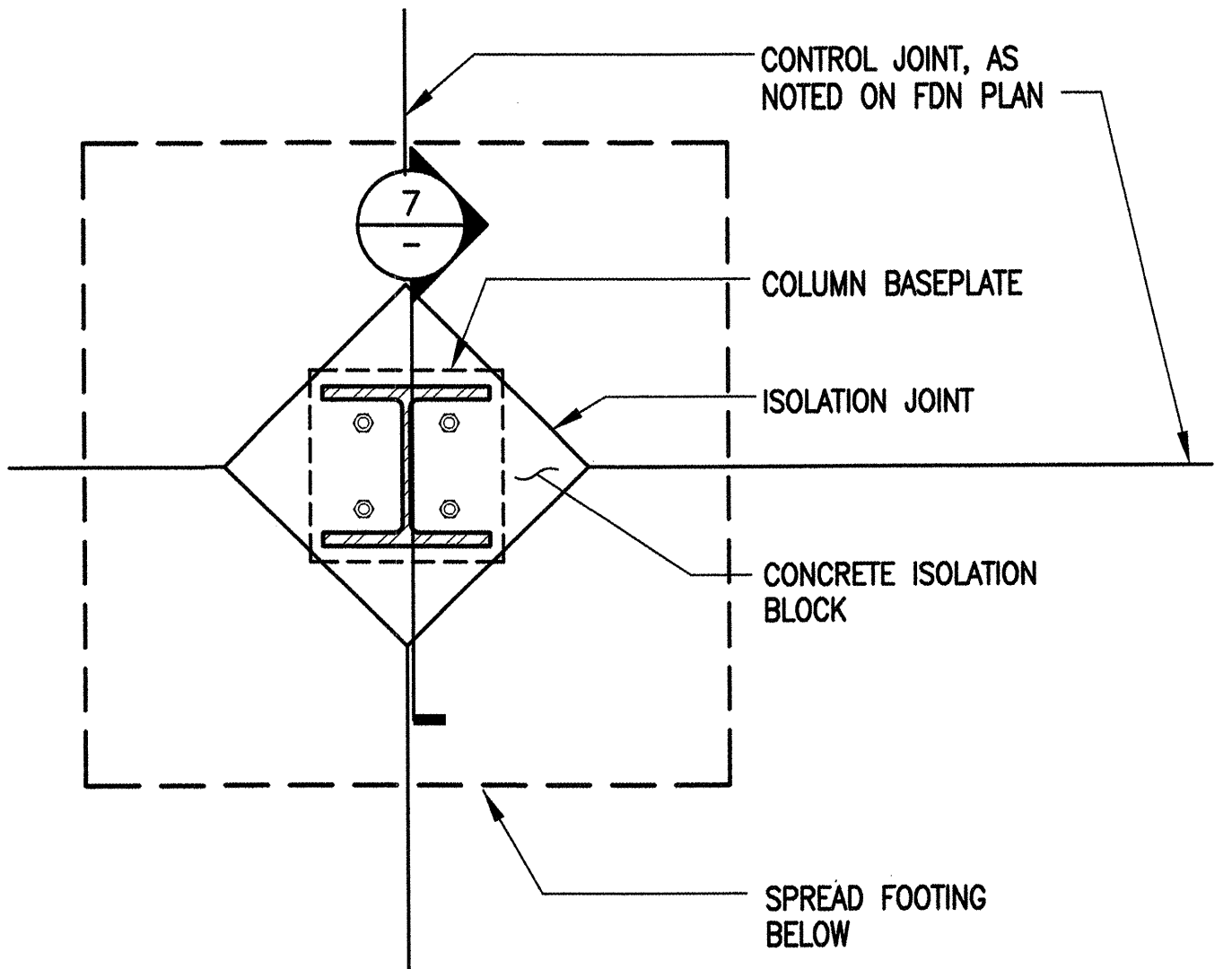
1 ELEVATOR PIT
 SCALE 3/4" = 1'-0"



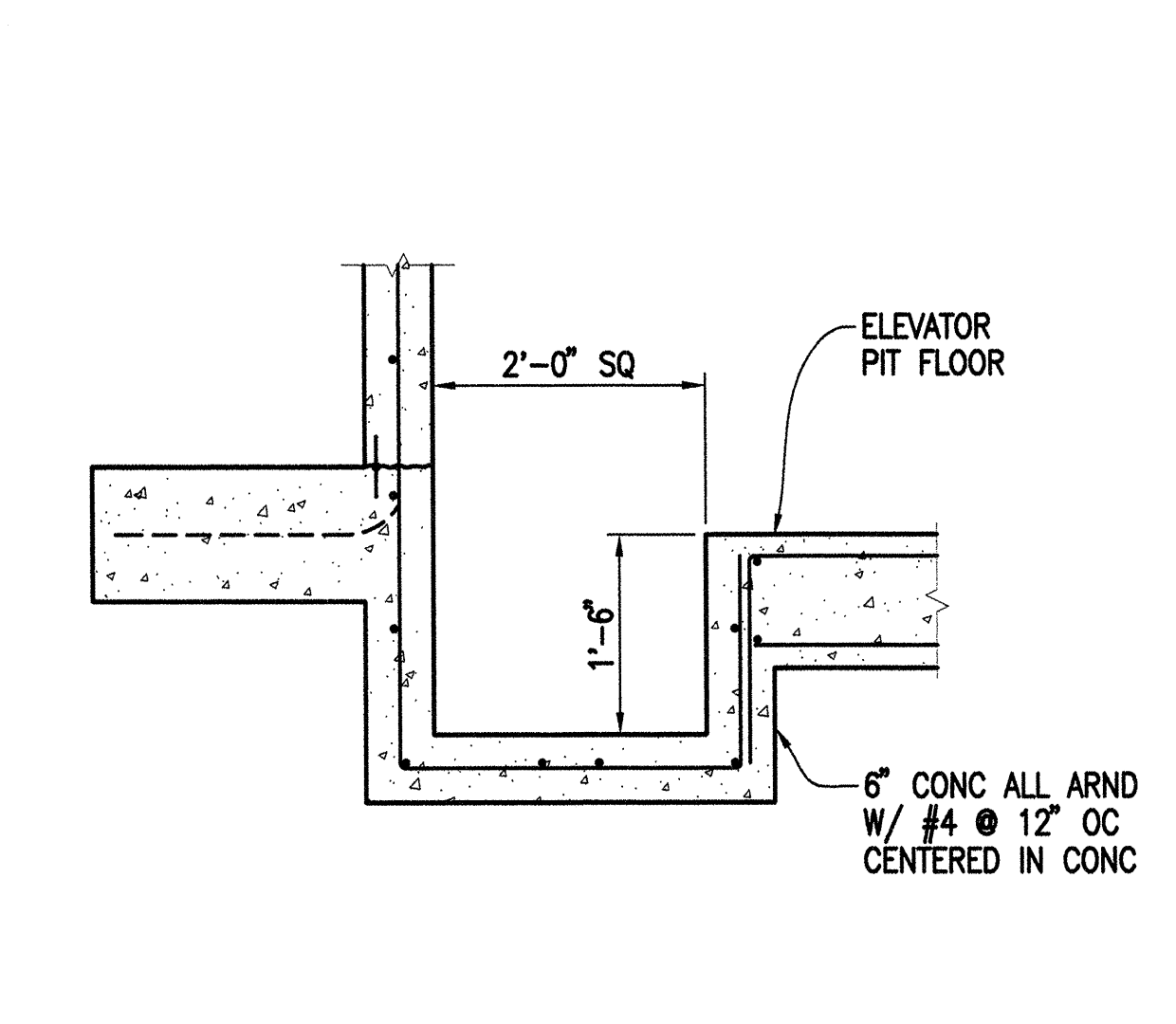
8 SOG TO CONC WALL
 SCALE 1 1/2" = 1'-0"



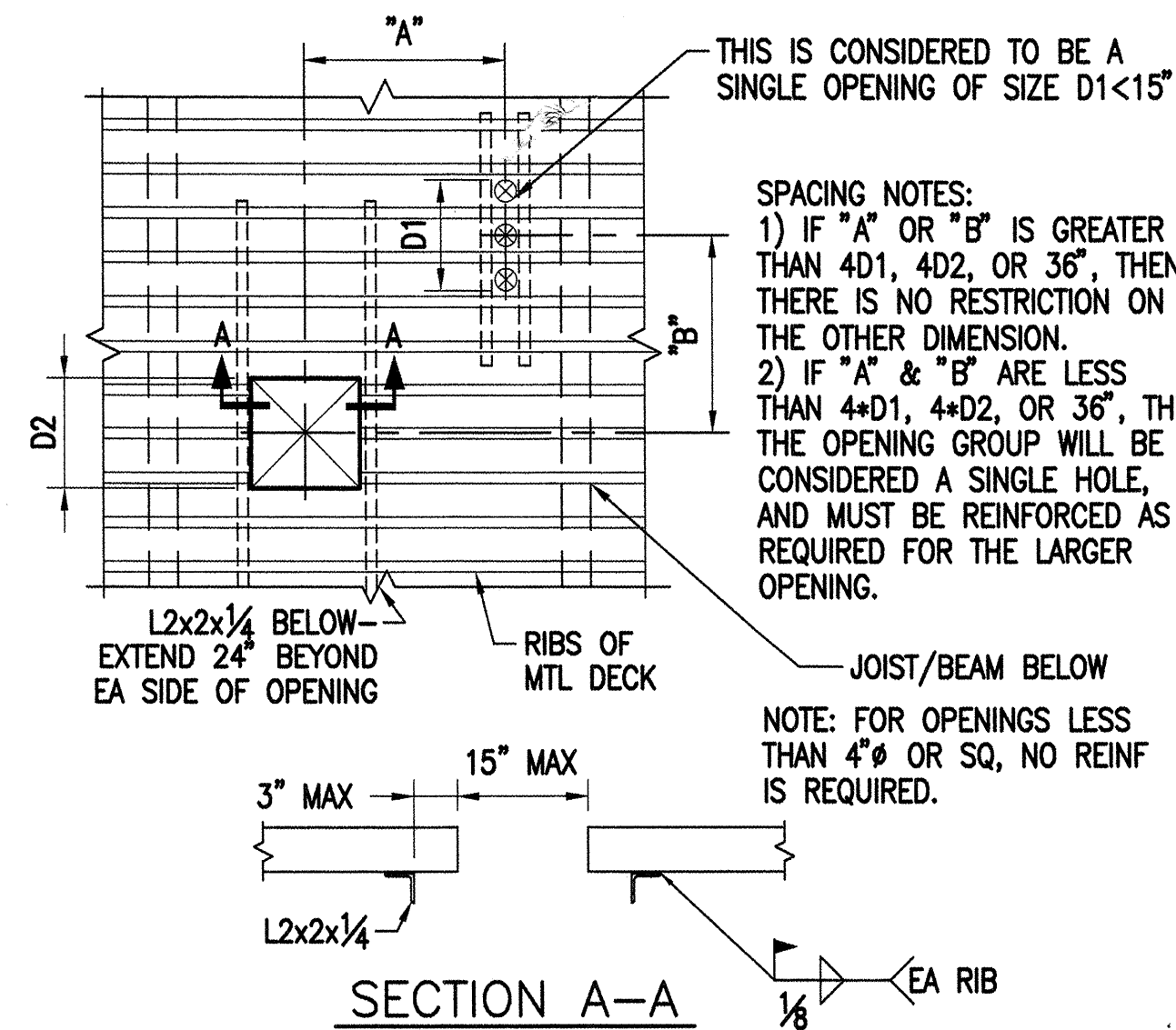
7 INTERIOR FOOTING TYP.
 SCALE 3/4" = 1'-0"



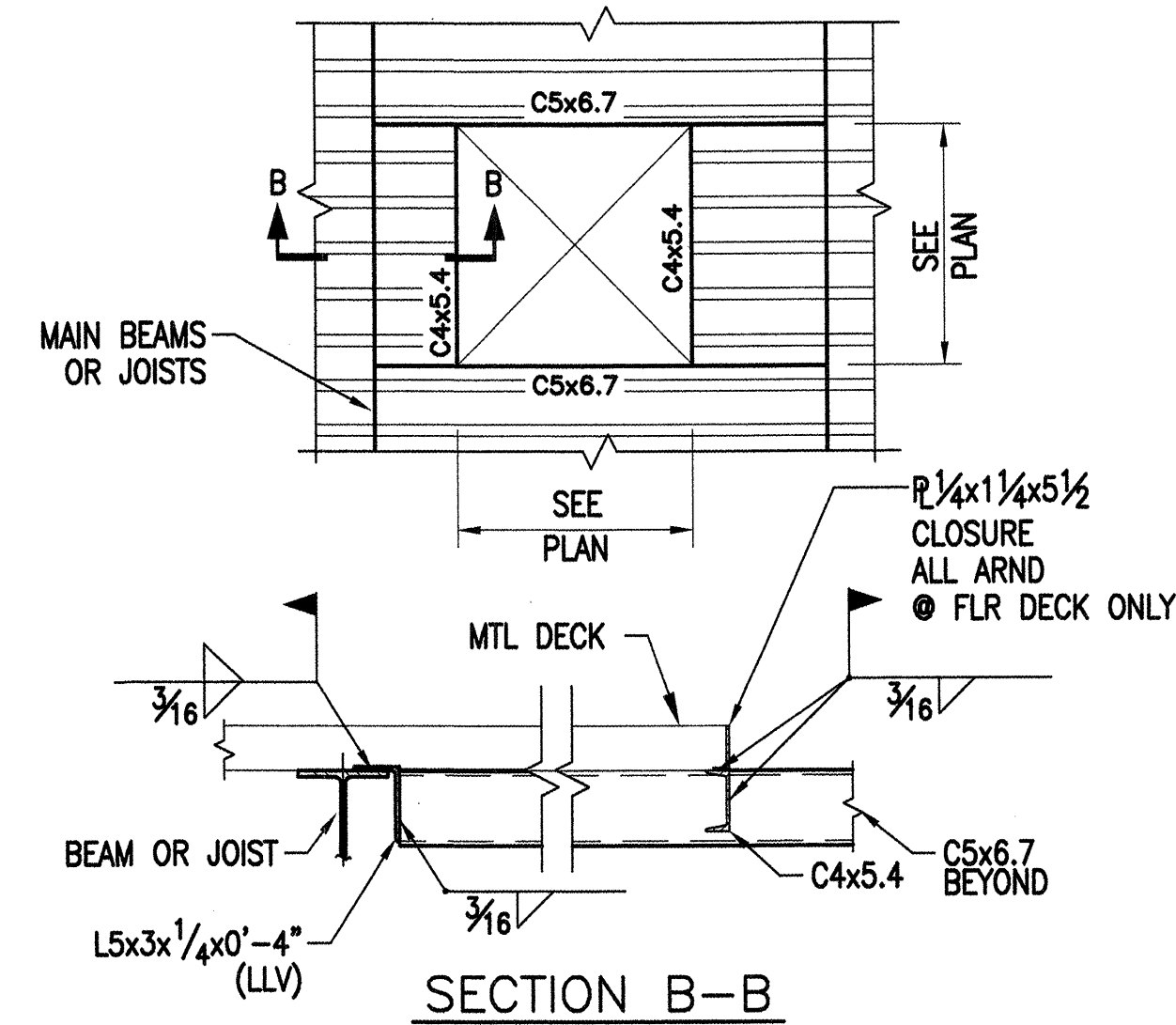
6 TYP. COLUMN ISOLATION JOINT
 SCALE 3/4" = 1'-0" SIM @ EXTERIOR COLS



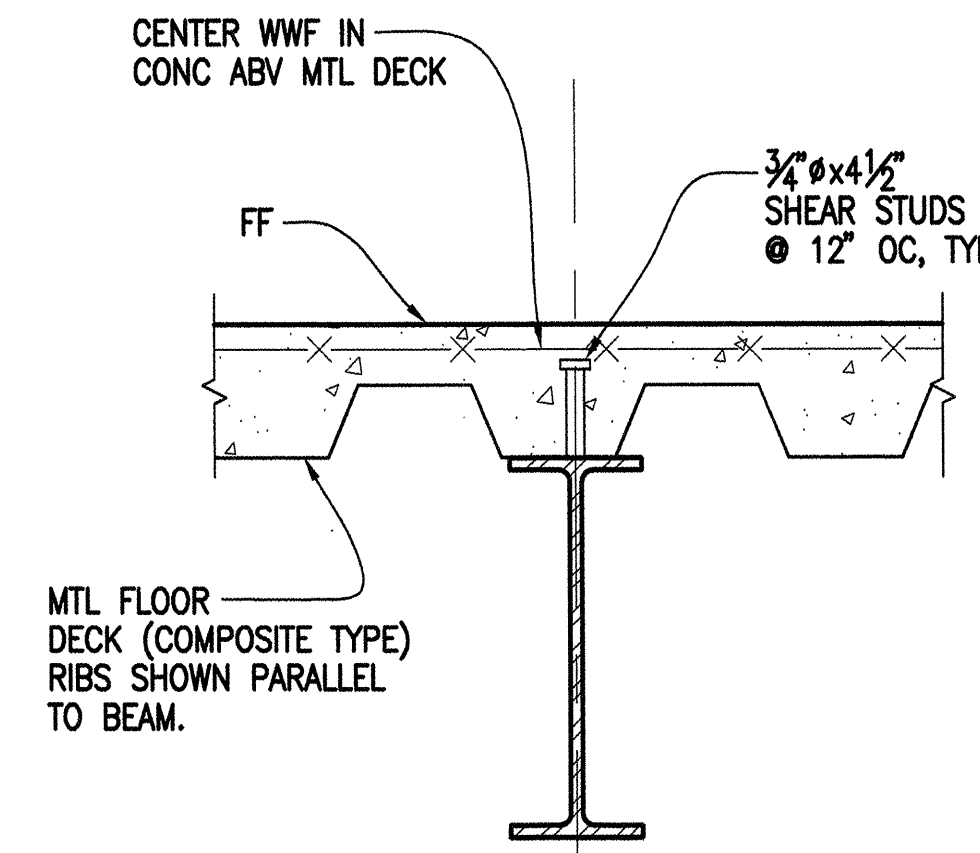
5 SUMP @ ELEVATOR PIT
 SCALE 3/4" = 1'-0"



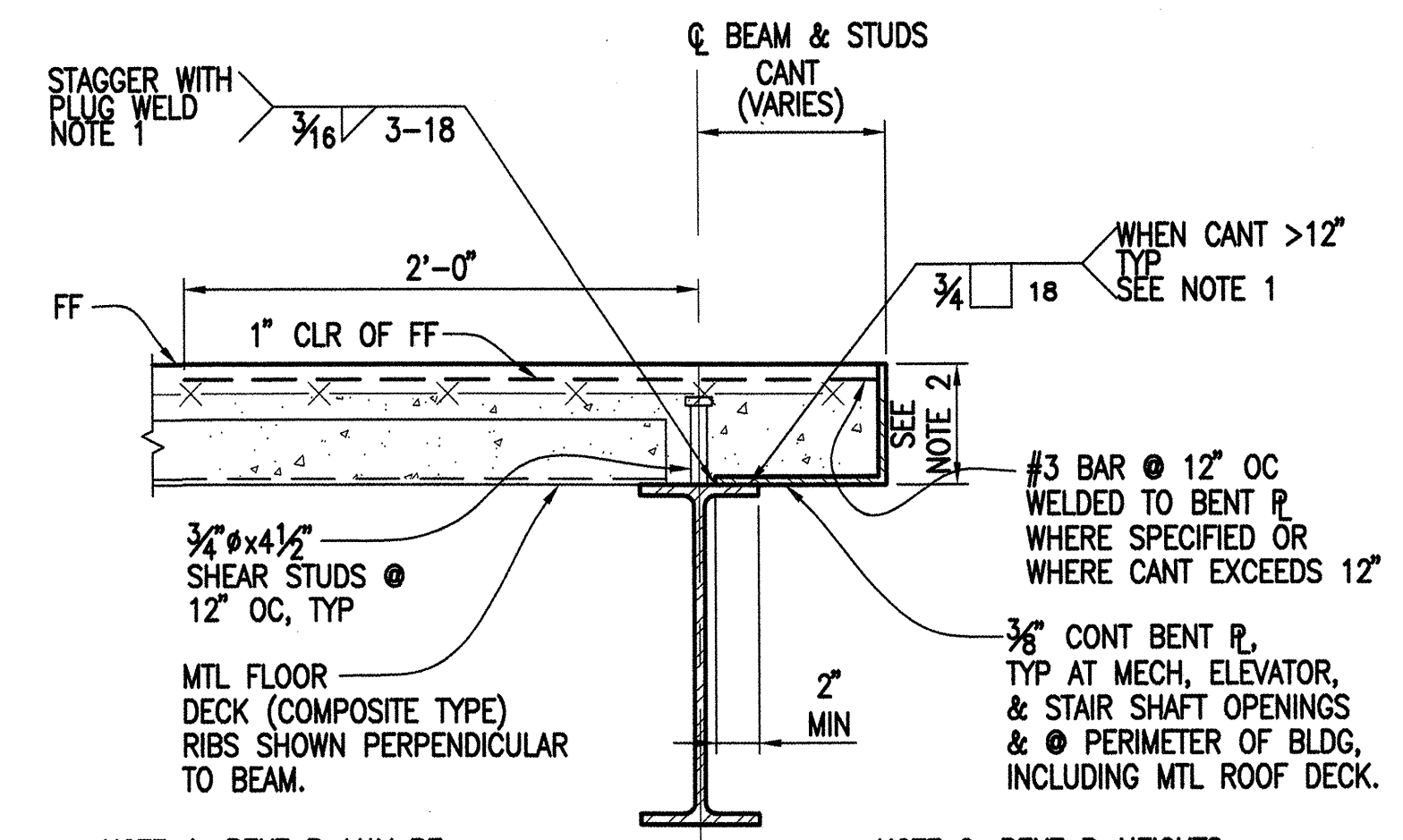
1 SMALL OPENINGS IN DECK
 S5.2 SCALE NTS



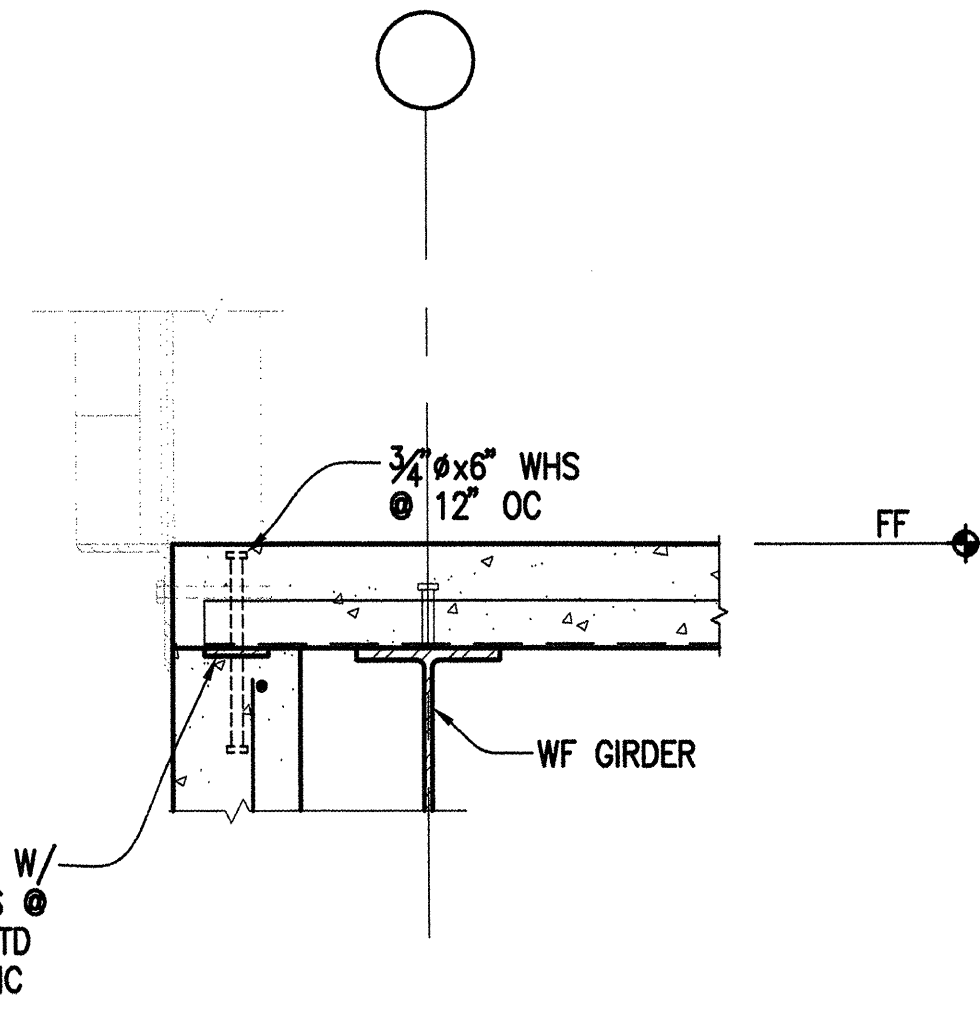
2 LARGE OPENINGS IN DECK
 S5.2 SCALE $1" = 1'-0"$



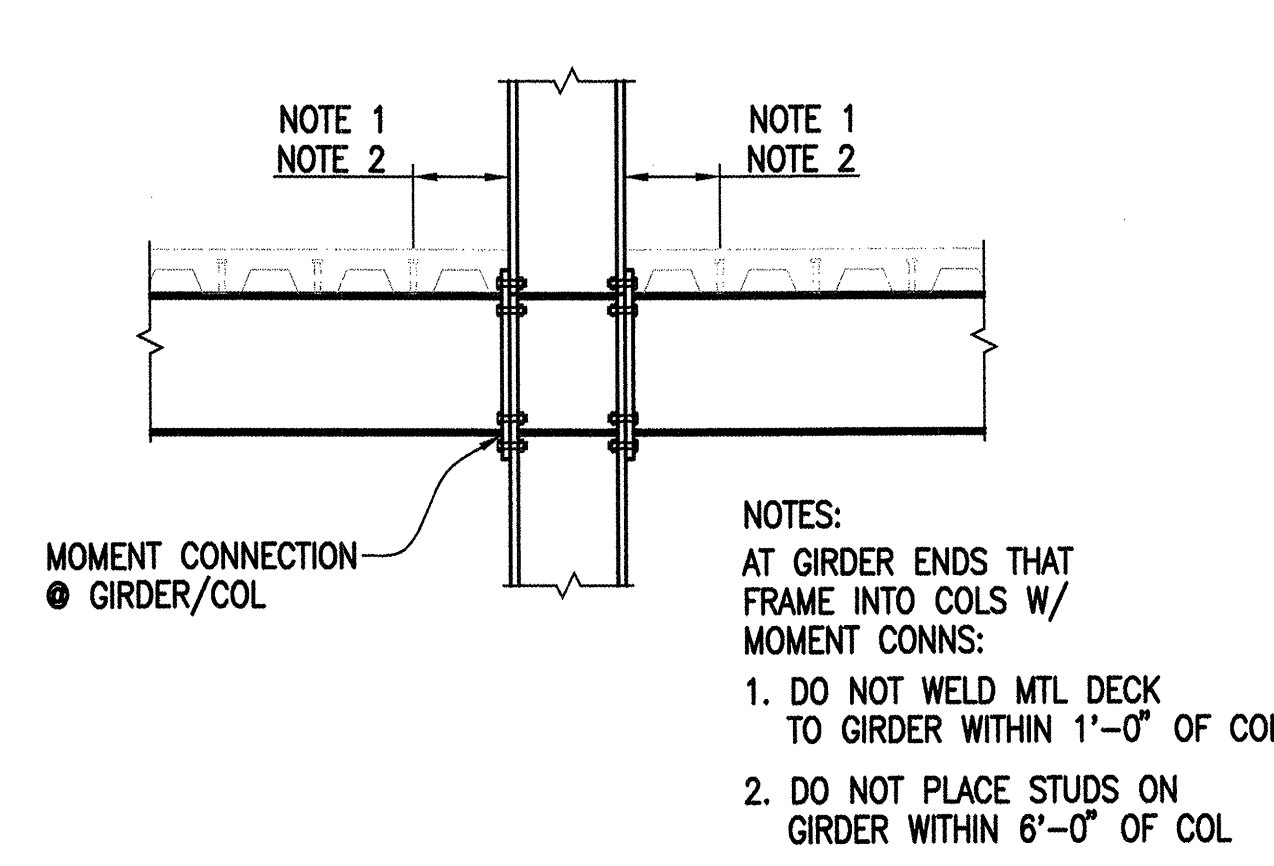
3 COMPOSITE STEEL BEAM, TYP
 S5.2 SCALE $1\frac{1}{2}" = 1'-0"$



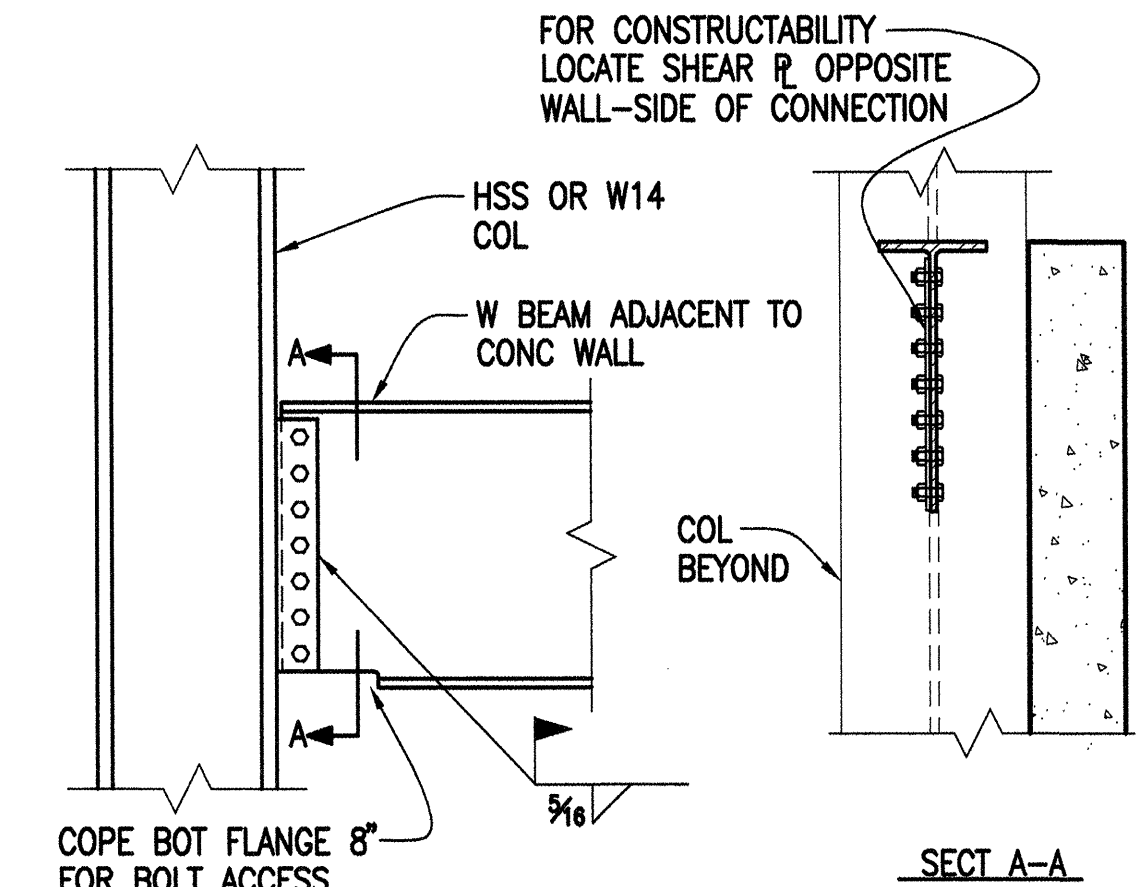
4 EDGE OF DECK, TYP
 S5.2 SCALE $1\frac{1}{2}" = 1'-0"$



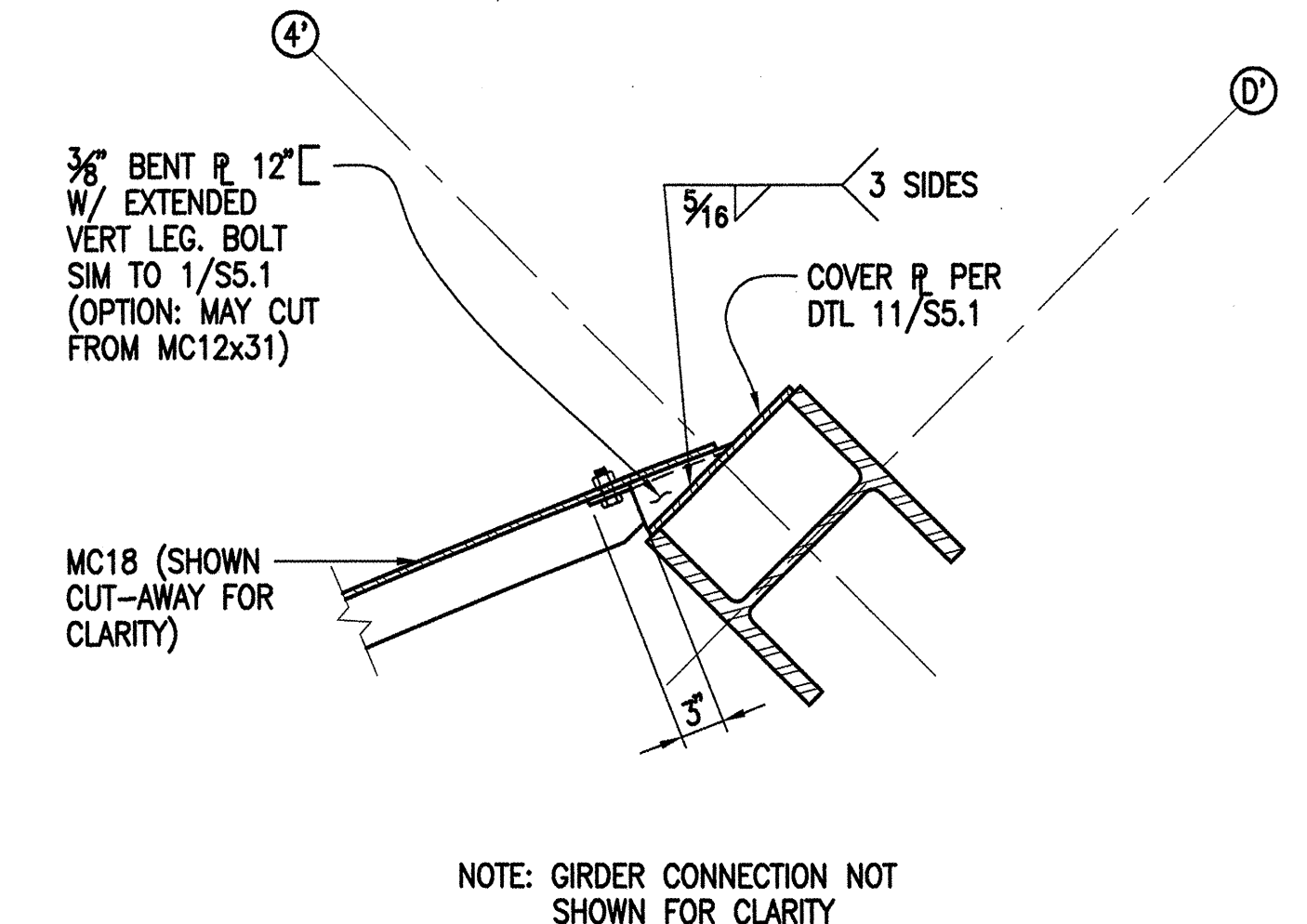
5 1st FLOOR TYP SLAB EDGE
 S5.2 SCALE $1" = 1'-0"$



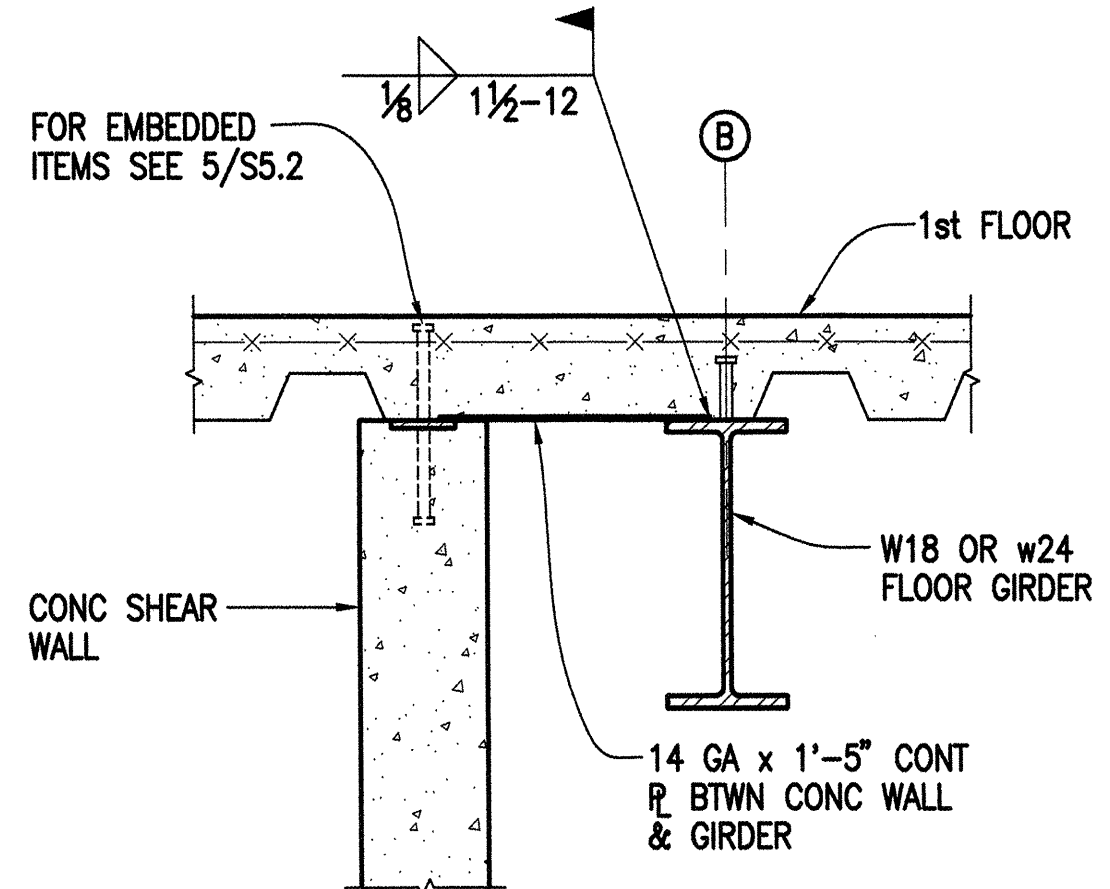
6 NO-STUD ZONE ON GIRDERS
 S5.2 SCALE $\frac{1}{2}" = 1'-0"$



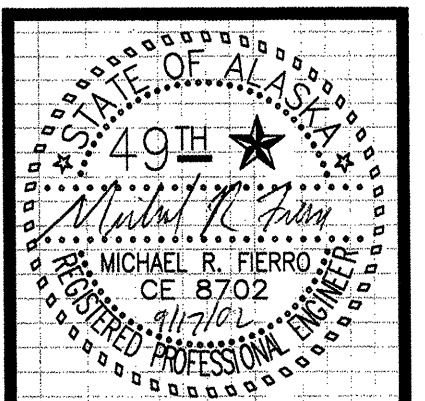
7 1st FLOOR FRAMING COPES @ CONC WALLS
 S5.2 SCALE $\frac{3}{4}" = 1'-0"$ NOTE: TYP @ ALL LOCATIONS WHERE APPLIES



8 DETAIL
 S5.2 SCALE $1" = 1'-0"$



9 SECTION - GRID B SHEAR WALL
 S5.2 SCALE $1" = 1'-0"$



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 Anchorage, Alaska 99503
 Phone: 907-562-1439
 Email: mferro@kumin.com

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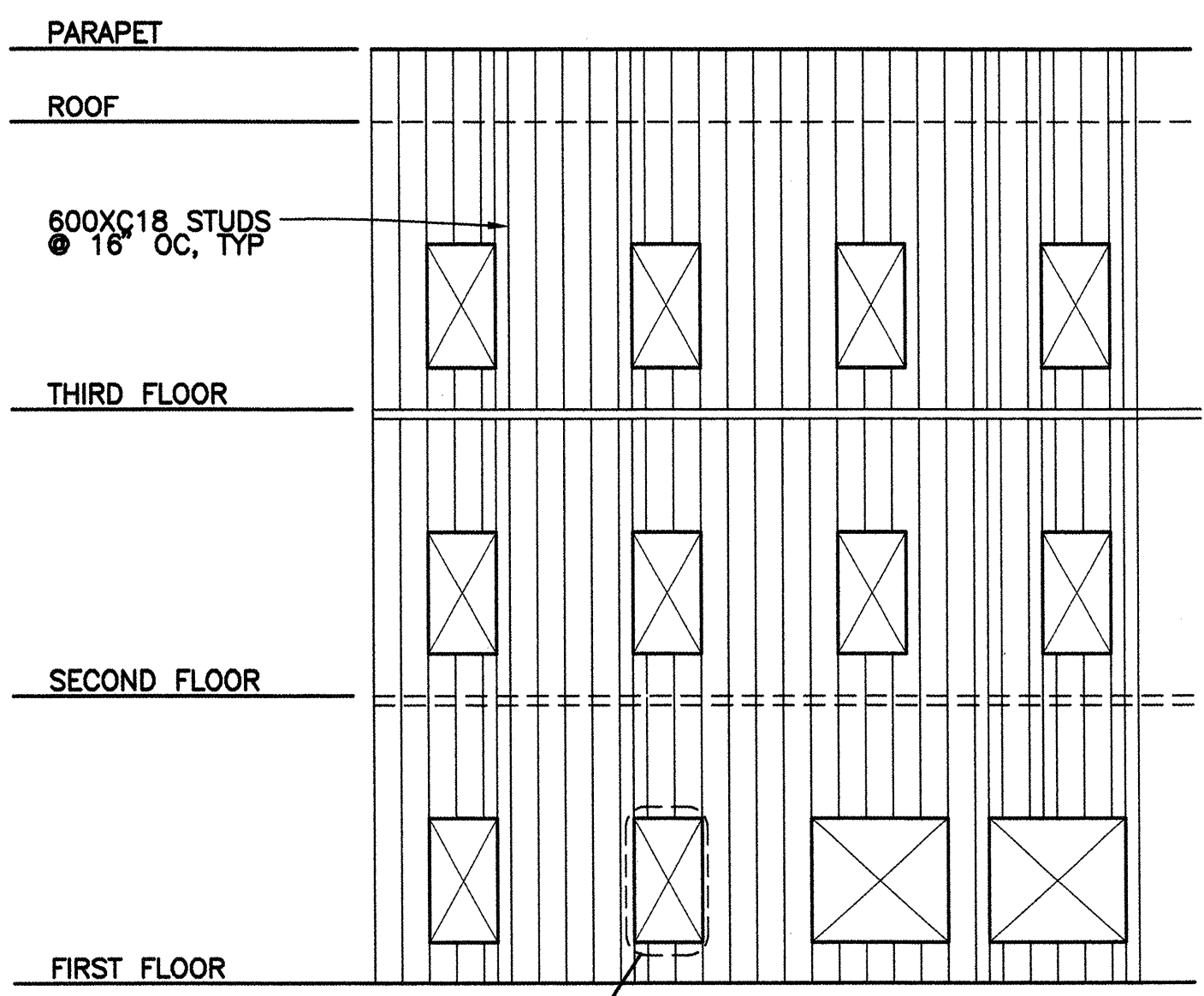
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 date 9-17-02
 revisions

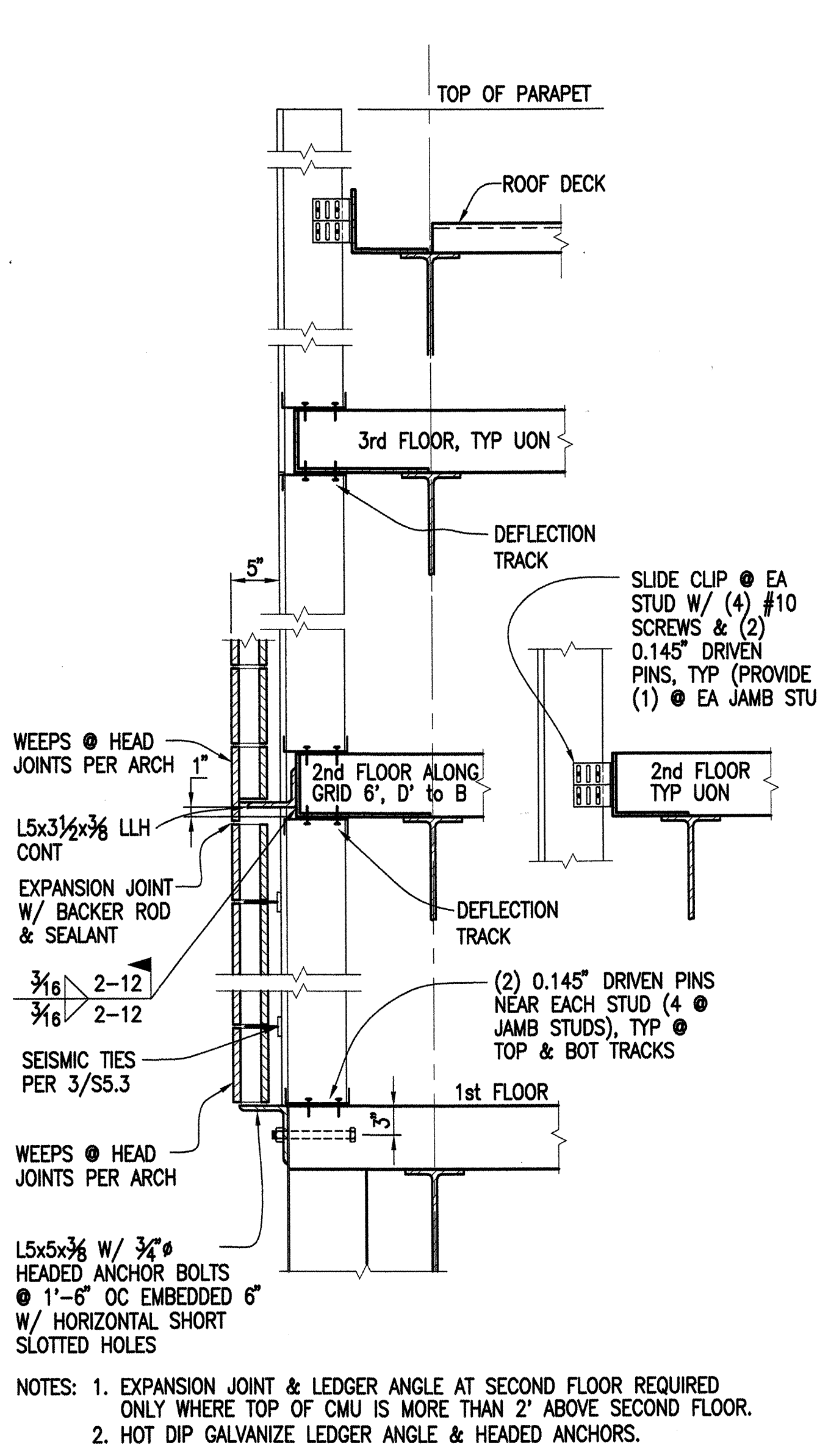
job no. 20152
 dwg. title
 FRAMING DETAILS

sheet no.
S5.2

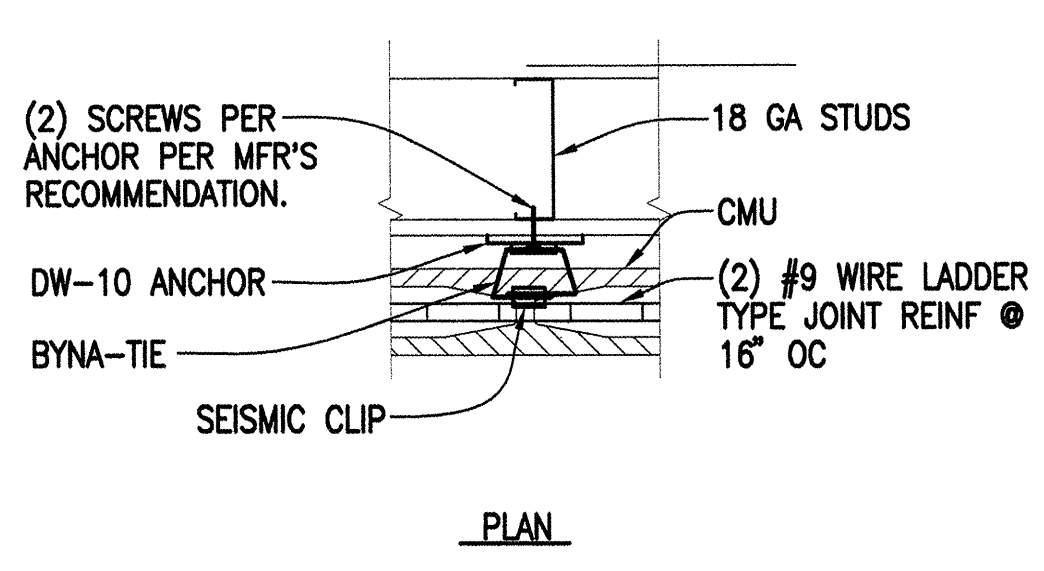
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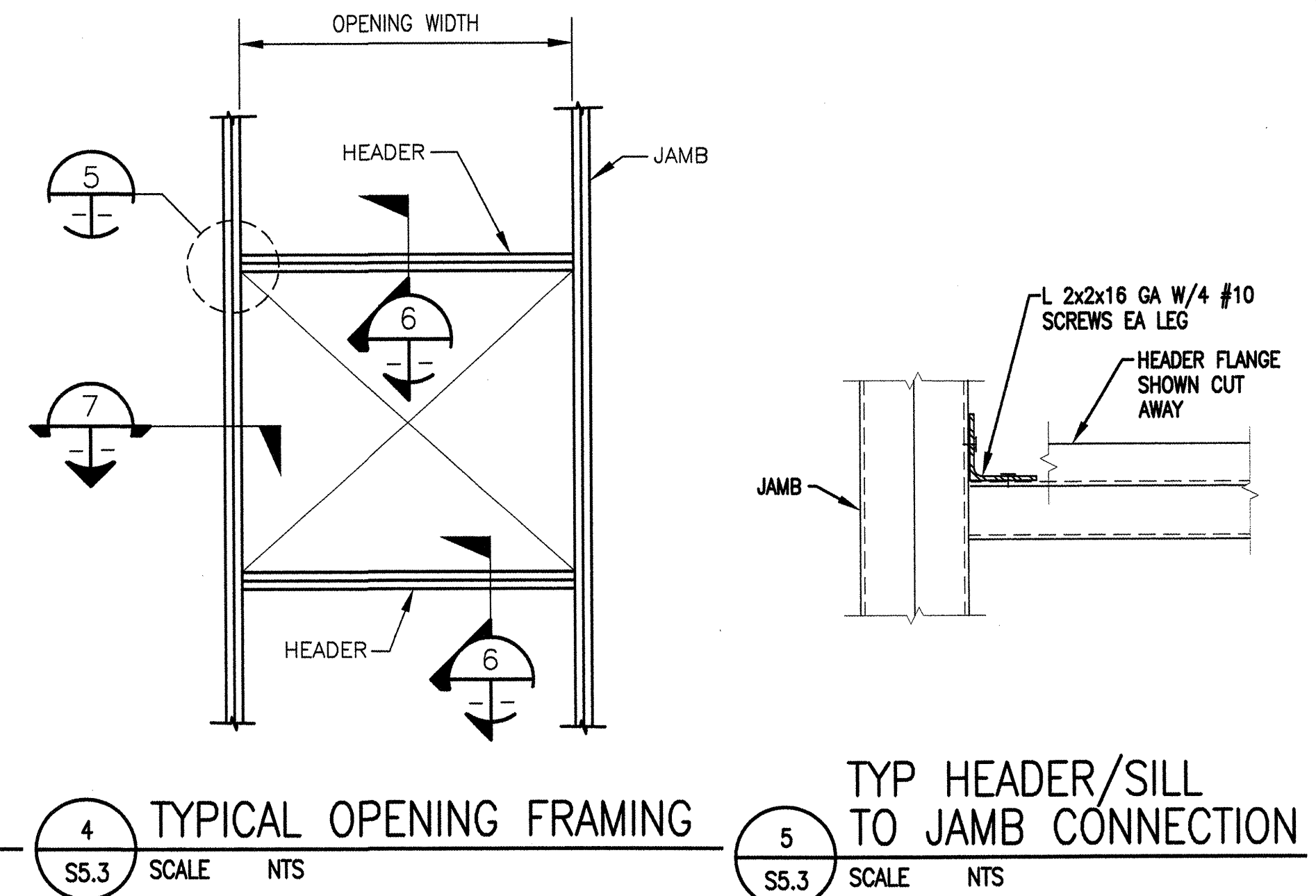
1 TYPICAL EXTERIOR WALL FRAMING
S5.3 SCALE NTS



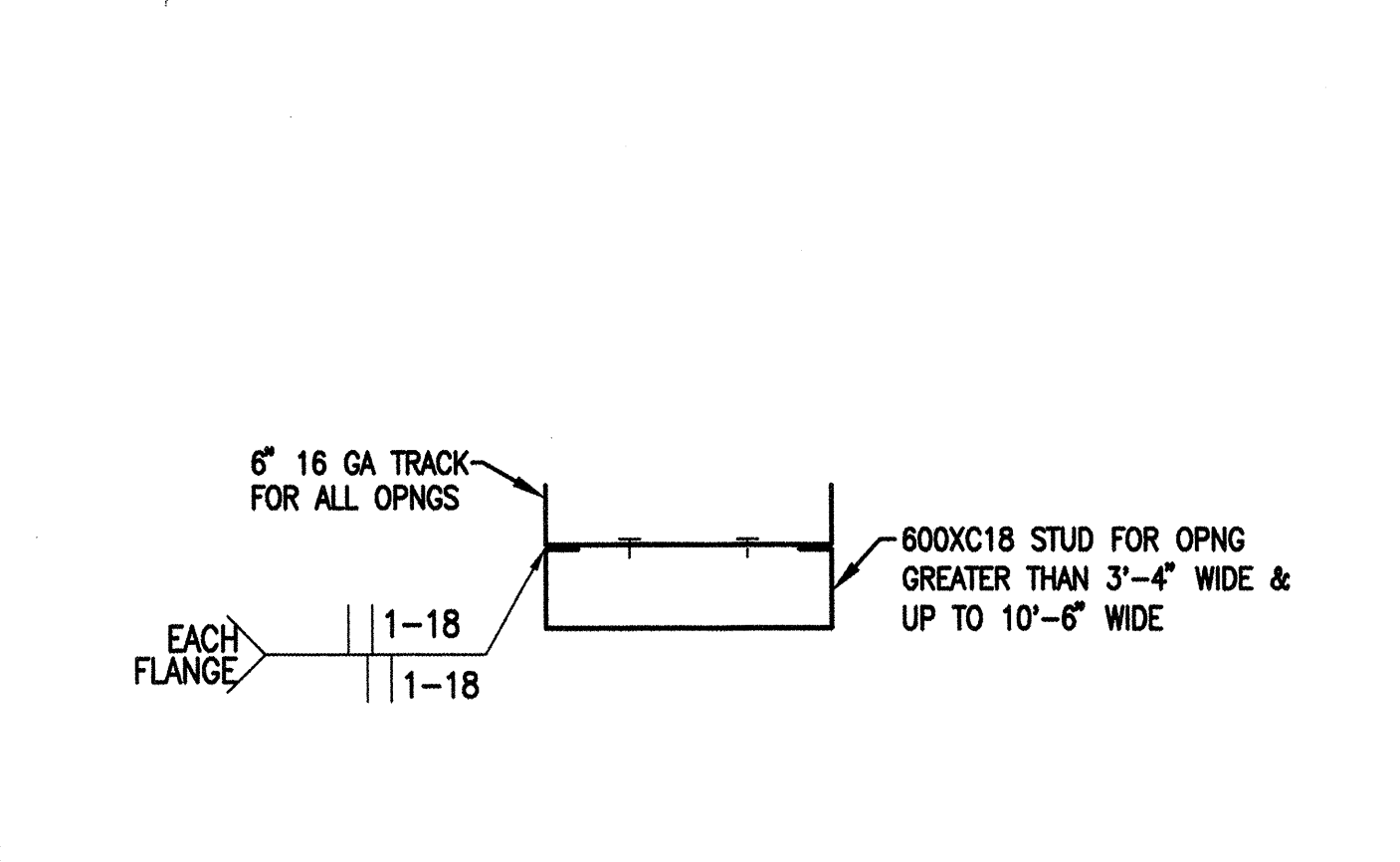
2 SECTION
S5.3 SCALE 1" = 1'-0"



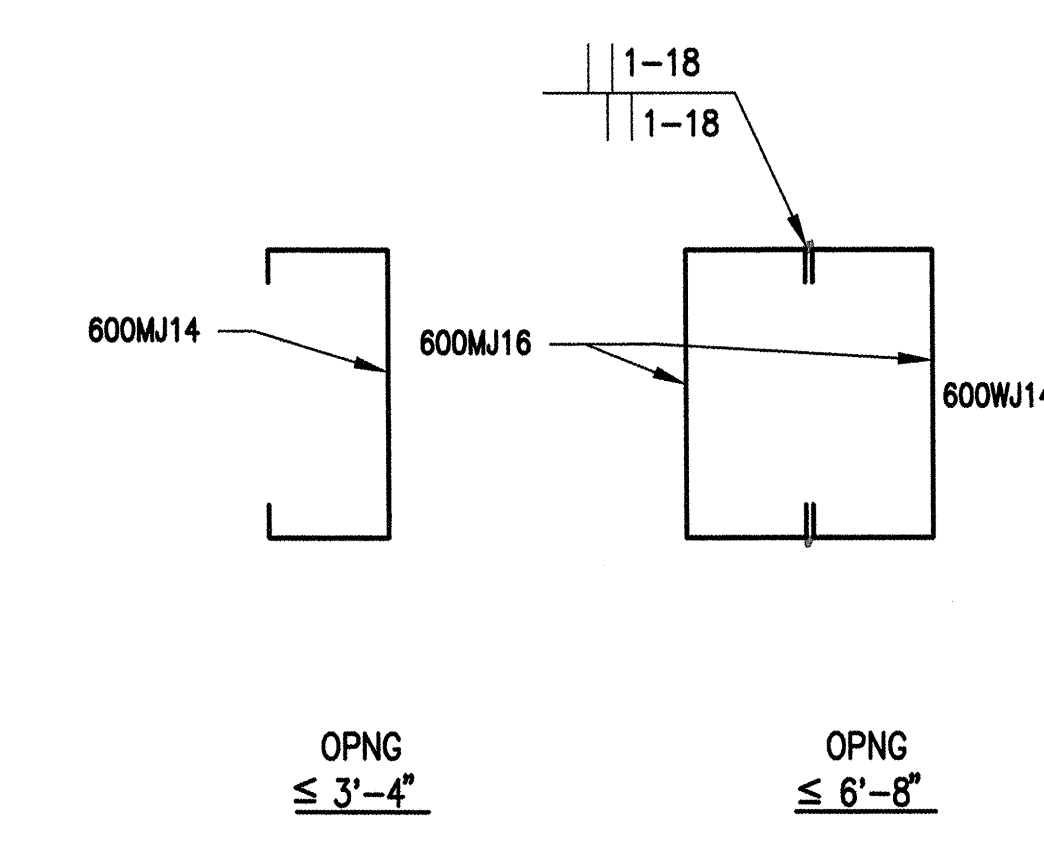
3 SEISMIC TIE DETAIL
S5.3 SCALE 1 1/2" = 1'-0"



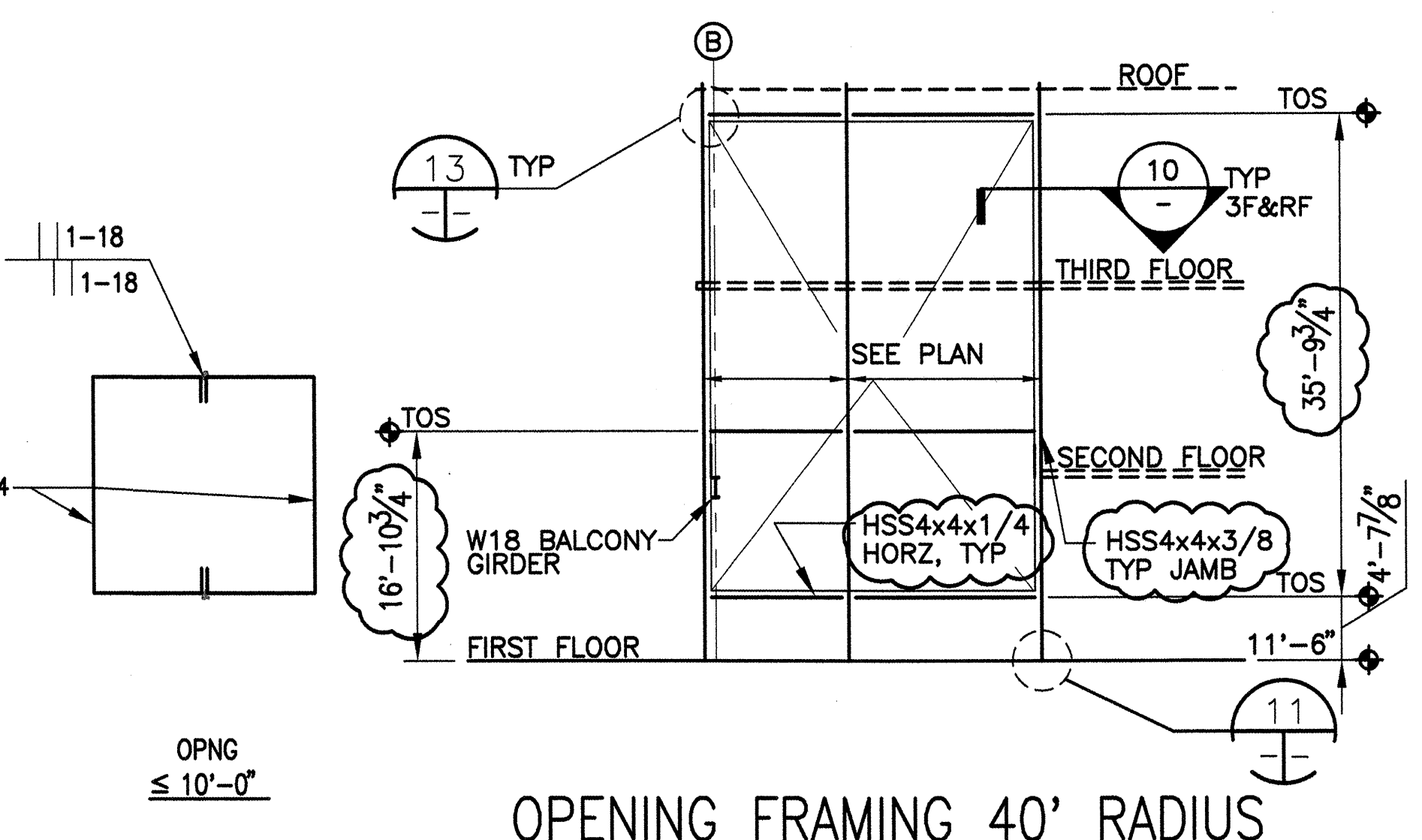
4 TYPICAL OPENING FRAMING
S5.3 SCALE NTS



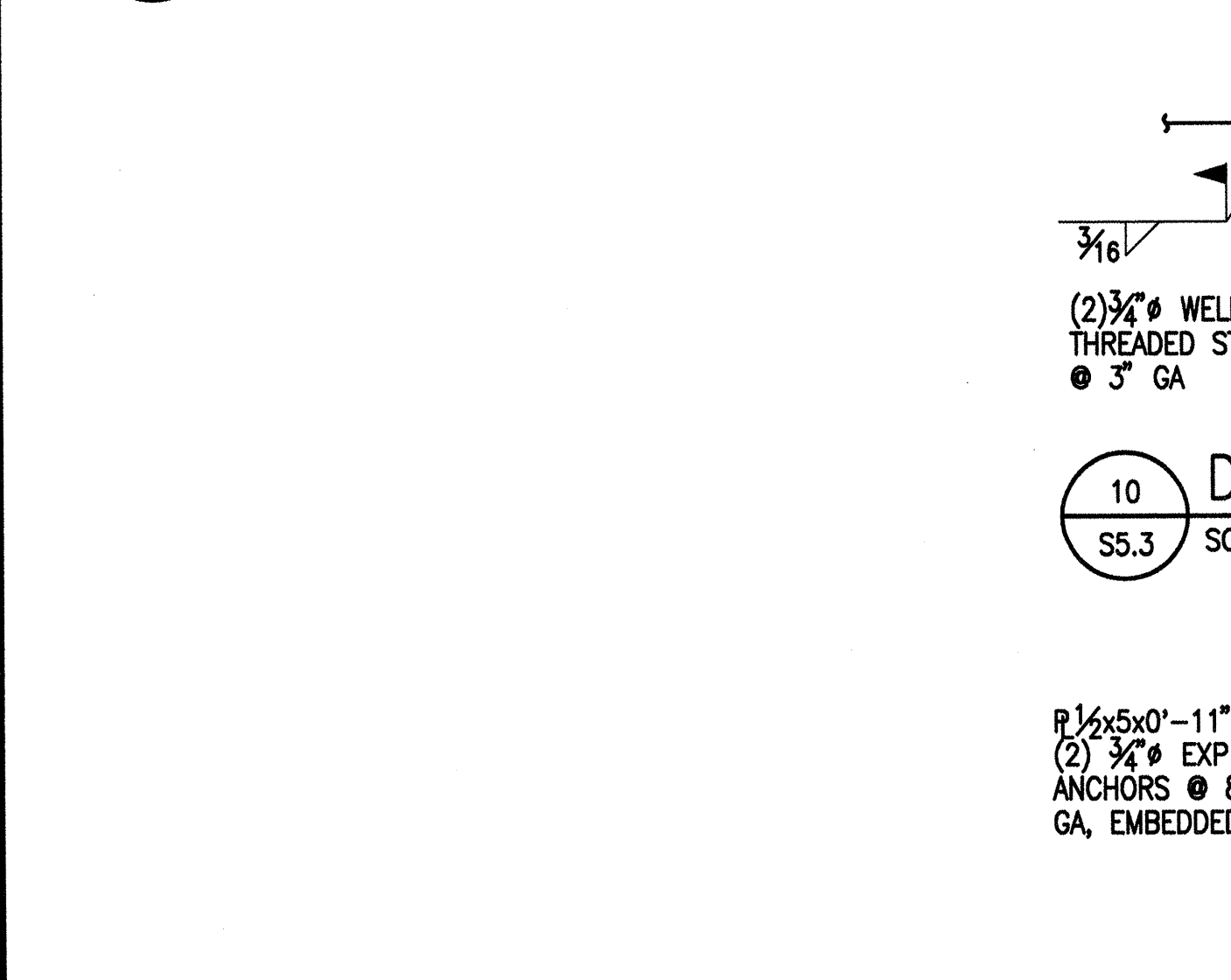
6 TYP HEADER (SILL OPP HAND)
S5.3 SCALE NTS



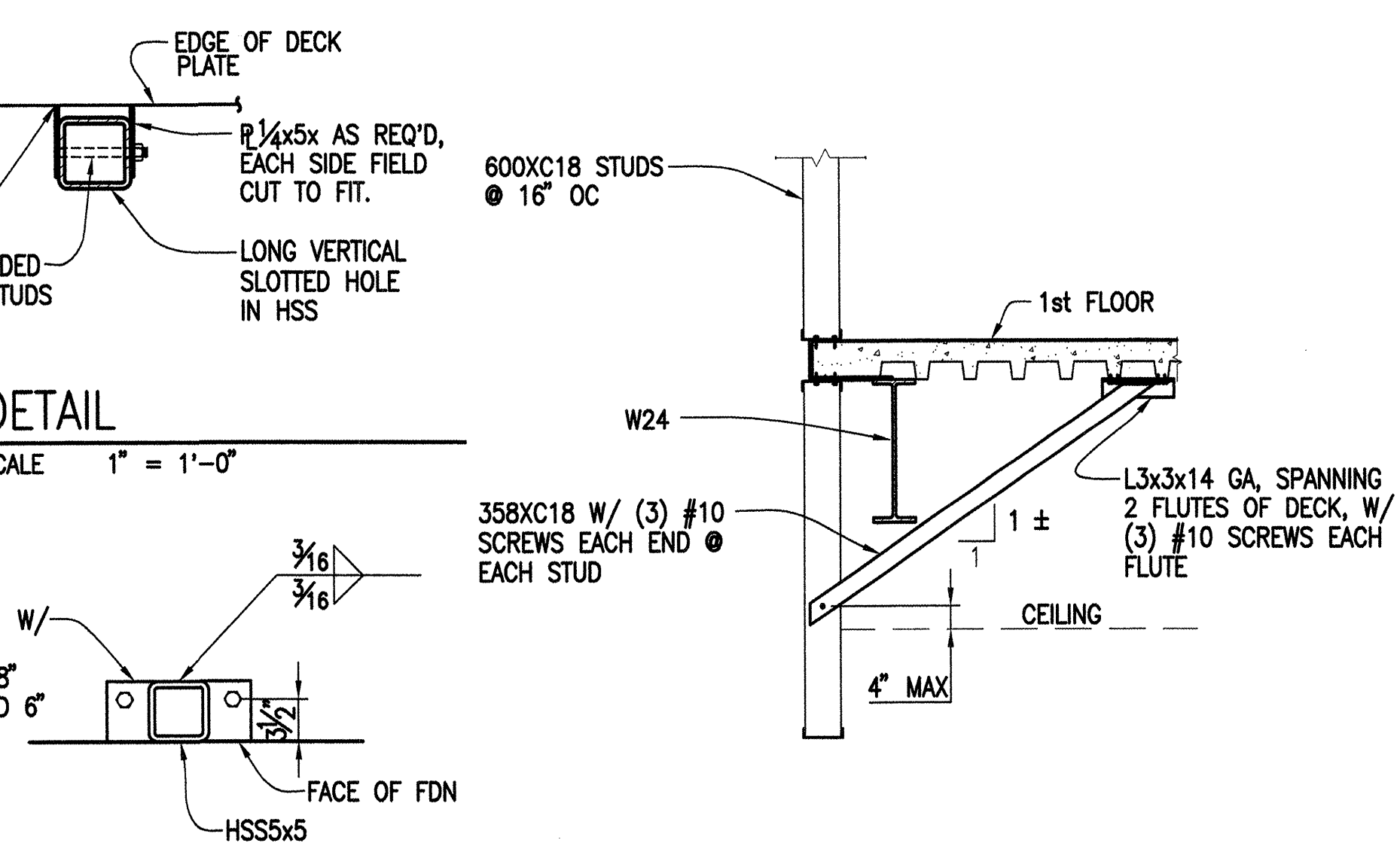
7 TYPICAL JAMBS
S5.3 SCALE NTS



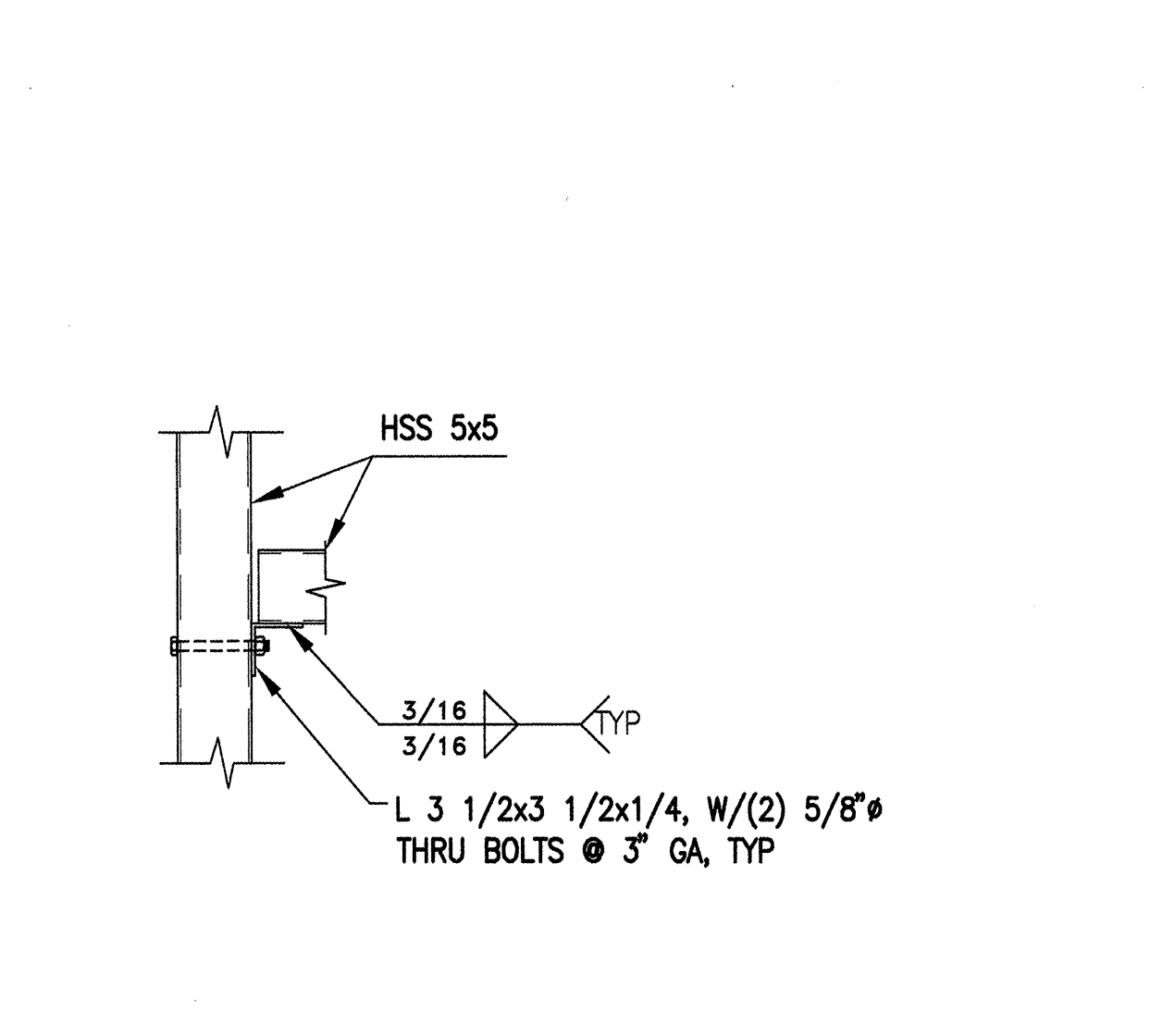
8 OPENING FRAMING 40' RADIUS WALL BETWEEN GRIDLINES A AND B
S5.3 SCALE NTS LOOKING SOUTH



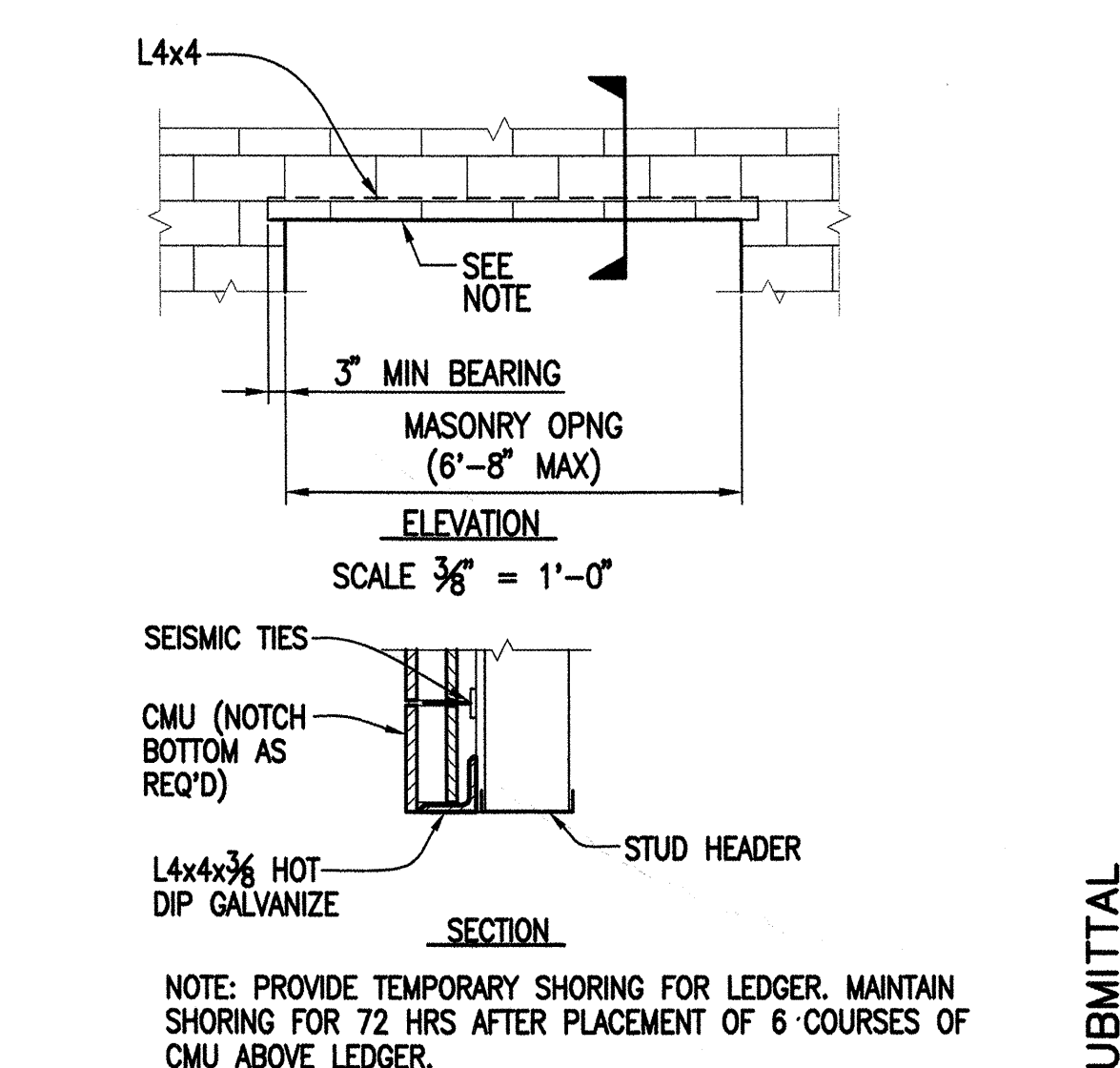
10 DETAIL
S5.3 SCALE 1" = 1'-0"



11 JAMB BASE PLATE
S5.3 SCALE 1" = 1'-0"

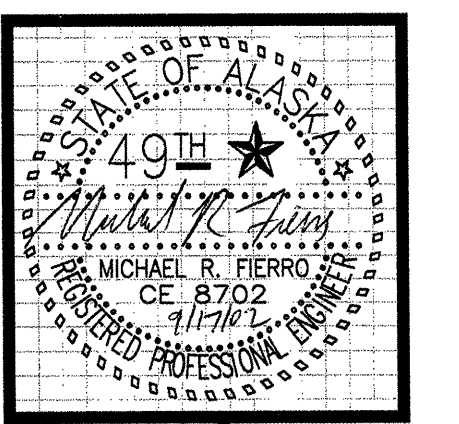


12 WALL FRAMING OVER GARAGE DOOR
S5.3 SCALE 1/2" = 1'-0"



13 DETAIL
S5.3 SCALE 1" = 1'-0"

9 NOT USED
S5.3 SCALE 1" = 1'-0"



kumin associates, inc.
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808 E street, suite 200 • anchorage, alaska 99501 • (907) 272-9833

4300 B Street, Suite 403
Anchorage, Alaska 99503
Phone: 907-562-5439
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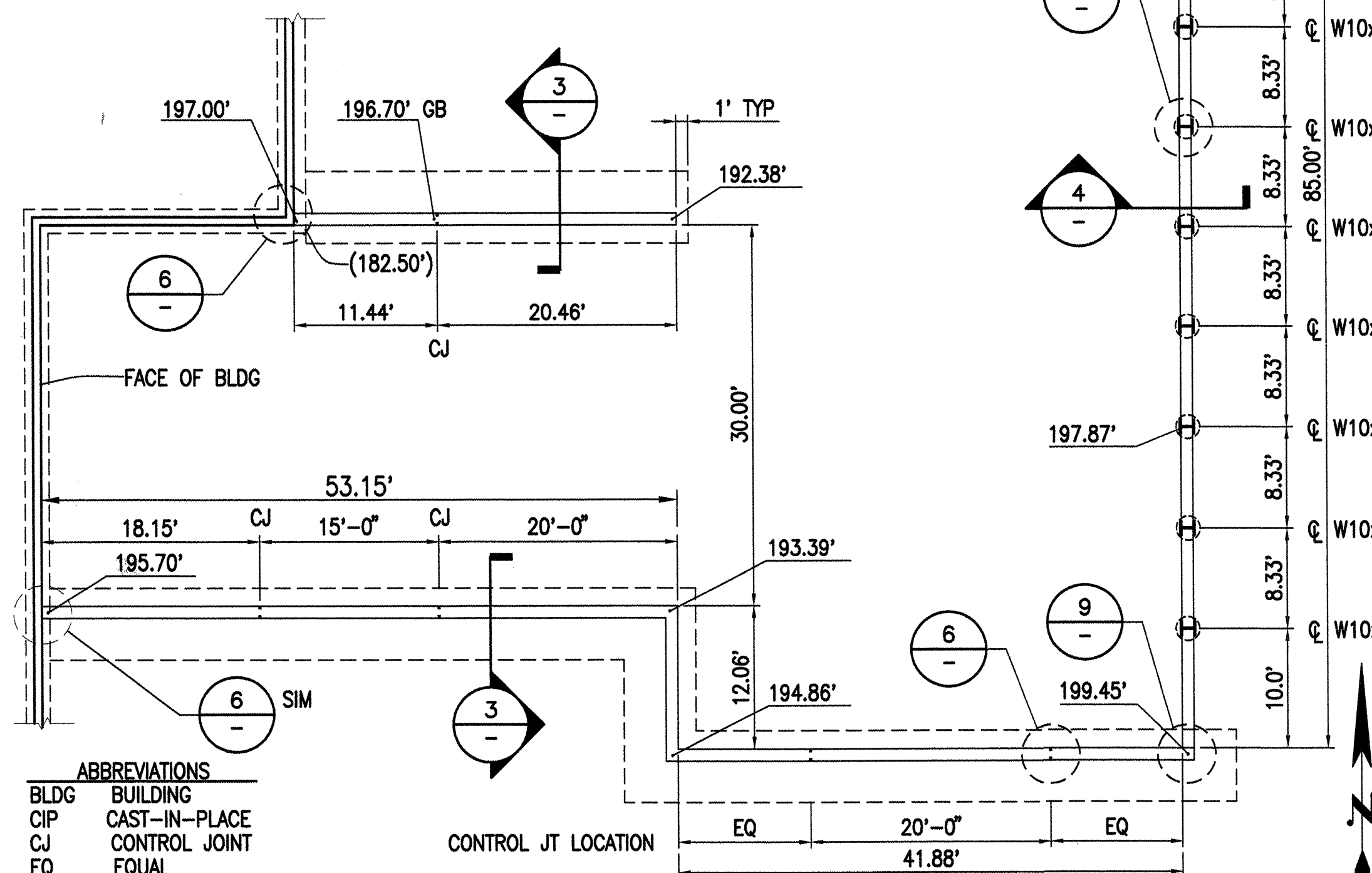
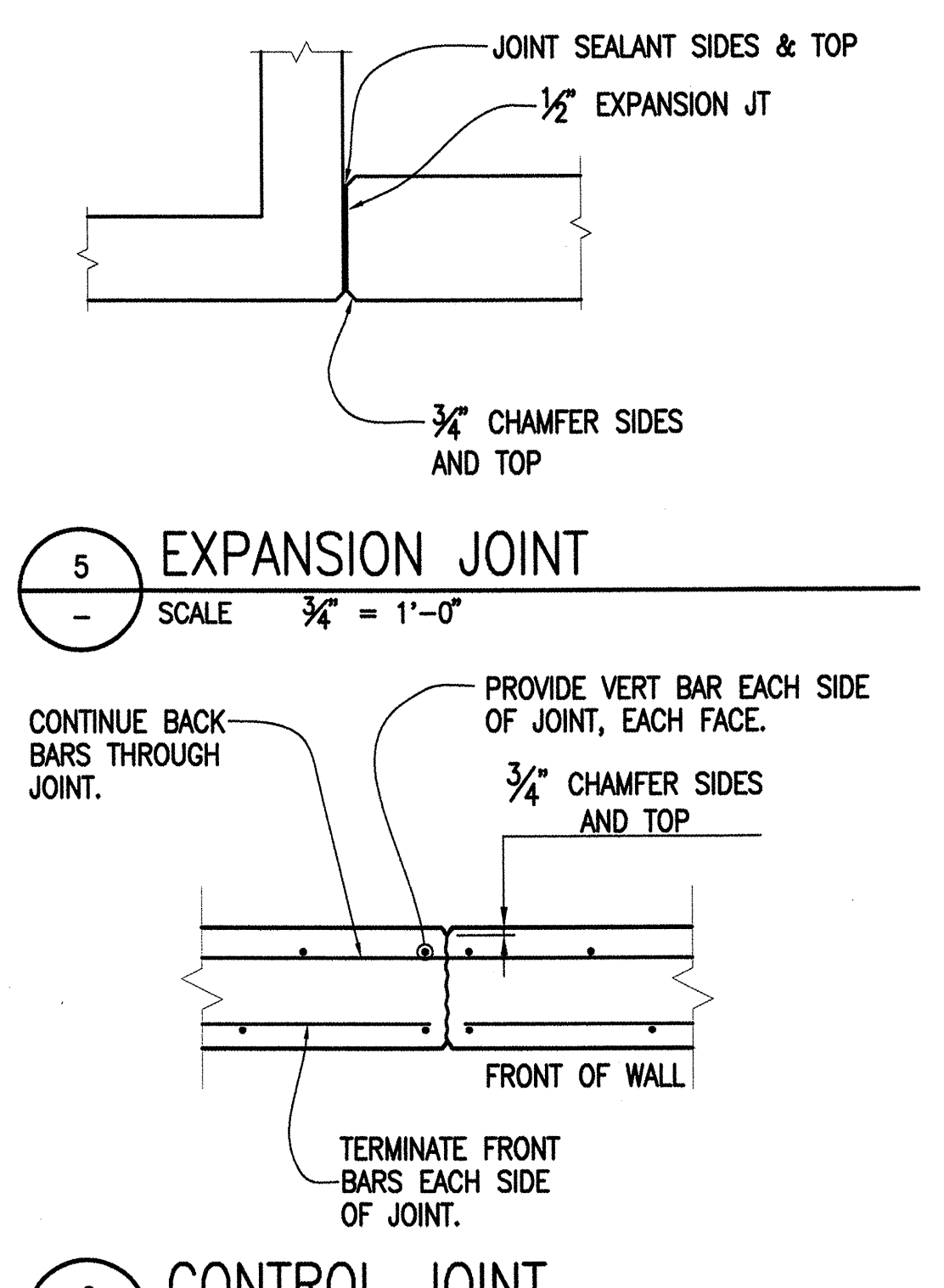
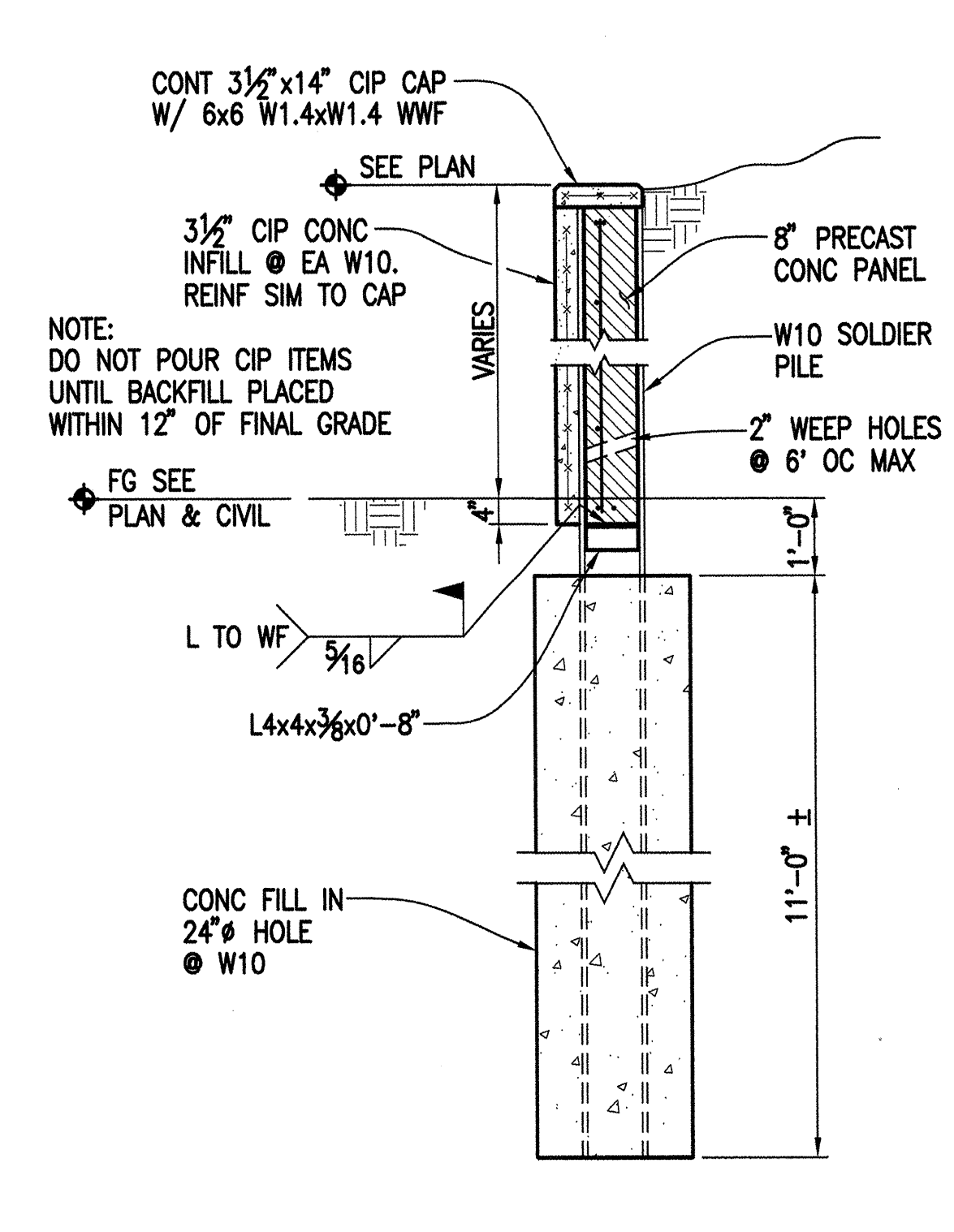
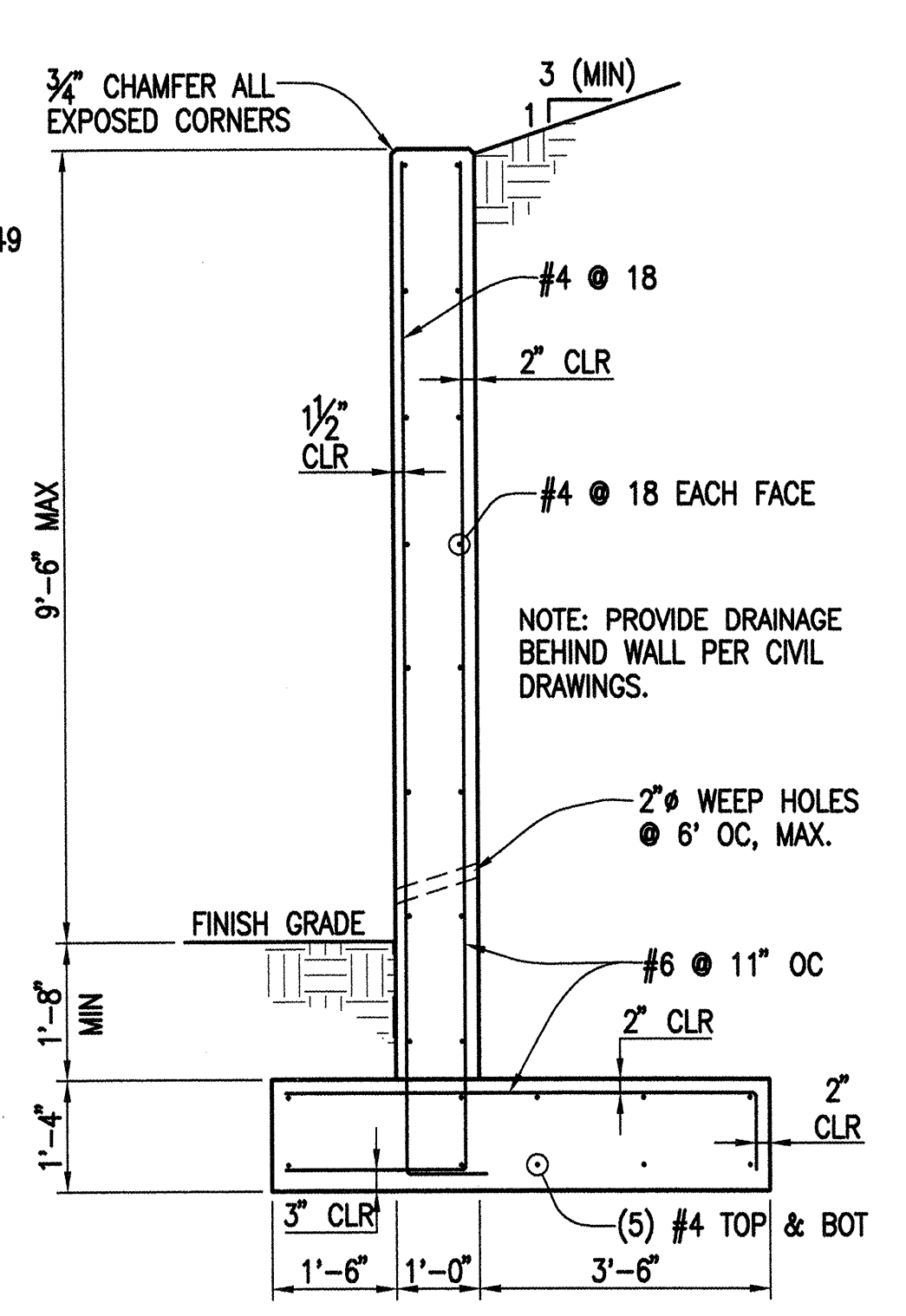
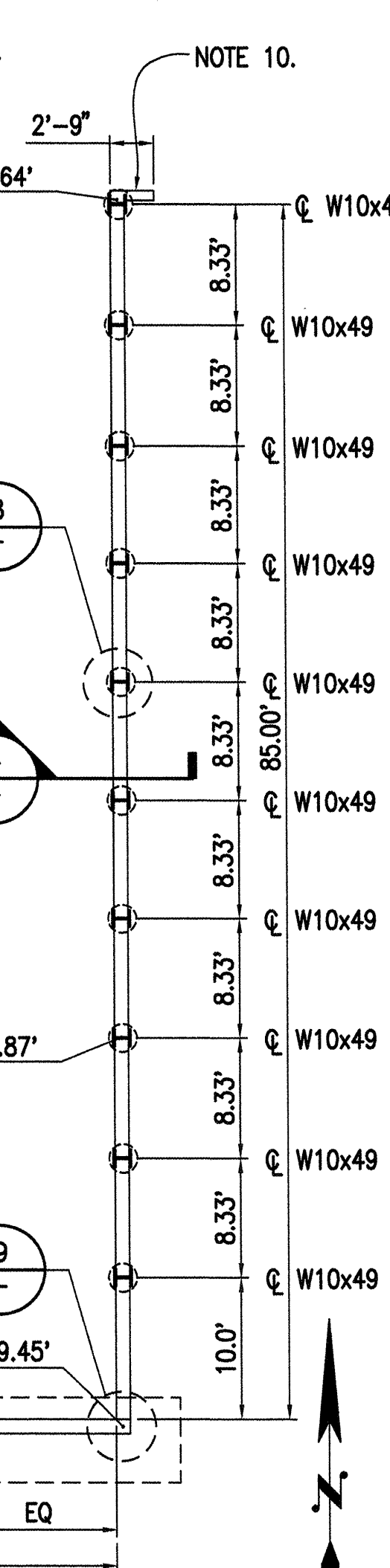
drawn CSB
checked MRF
date 9-17-02
revisions

job no. 20152
dwg. title CLADDING DETAILS
sheet no. **S5.3**

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- NOTES**
- ELEVATIONS SHOWN AS 192.38' INDICATE TOP OF WALL ELEVATION.
 - ELEVATIONS SHOWN AS (182.50') INDICATE BOTTOM OF FOOTING ELEVATION.
 - PROVIDE A CONSTANT SLOPE ALONG THE TOP OF WALL BETWEEN SPOT ELEVATIONS AND GRADE BREAKS INDICATED ON PLAN
 - WHERE RETAINING WALL FOOTING ABUTS BLDG FTG PROVIDE DOWELS PER (7)
 - WHERE RETAINING WALL ABUTS BLDG FDN WALL, PROVIDE 1/2" INCH EXPANSION JOINT. DO NOT DOWEL RETAINING WALL TO BLDG FDN.

- CONFIRM ALL ELEVATIONS WITH CIVIL DRAWINGS.
- ALL CONSTRUCTION SHALL CONFORM TO THE 2000 IBC AND ACI 318.
- CONCRETE MIX:
CIP f'c = 3000 PSI @ 28 DAY
PRECAST f'c = 5000 PSI @ 28 DAY
ENTRAINED AIR CONTENT = 4% TO 6%
- REBAR: ASTM A615 GRADE 60
- 8" CIP CONC WING WALL WELD #5 HORZ A706 REBAR TO FLANGE @ 12" OC. USE #5 VERTS @ 12" OC. BOTTOM OF WALL = BOTTOM OF ADJACENT PCC PANEL.



ABBREVIATIONS

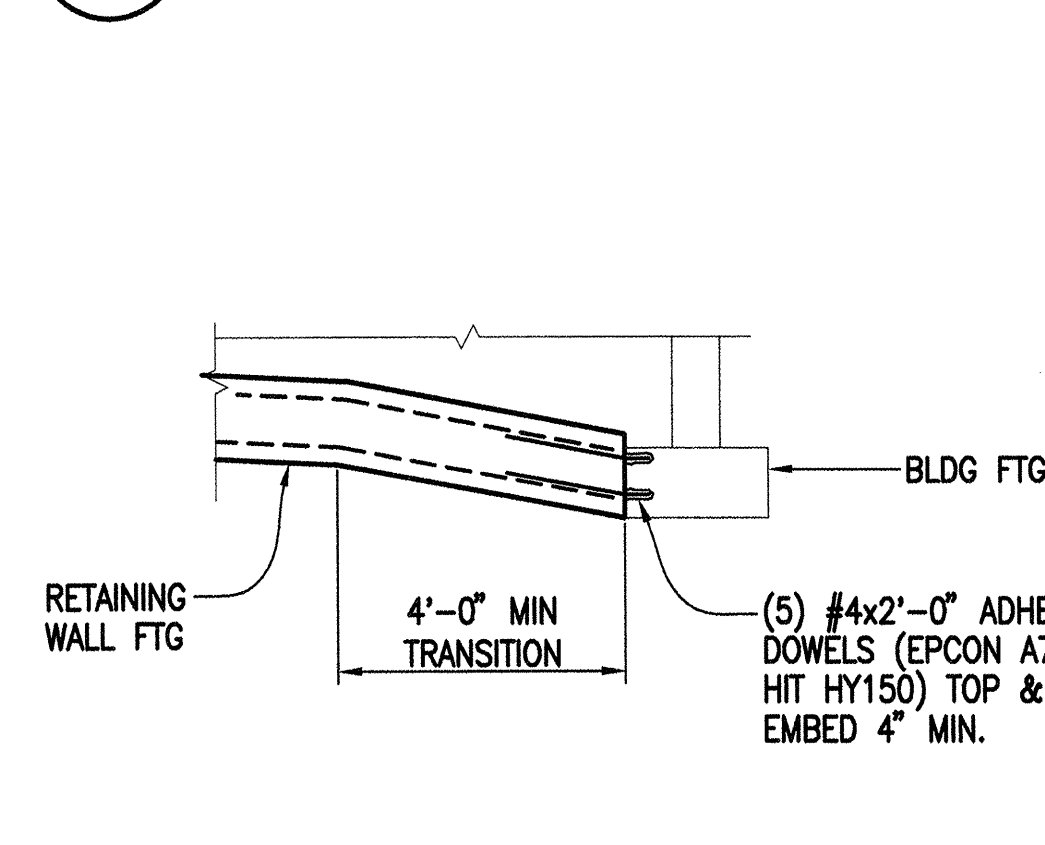
BLDG	BUILDING
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
EQ	EQUAL
FDN	FOUNDATION
FTG	FOOTING
GB	GRADE BREAK
JT	JOINT
TYP	TYPICAL

1 RETAINING WALL PLAN
SCALE 1" = 10'-0"

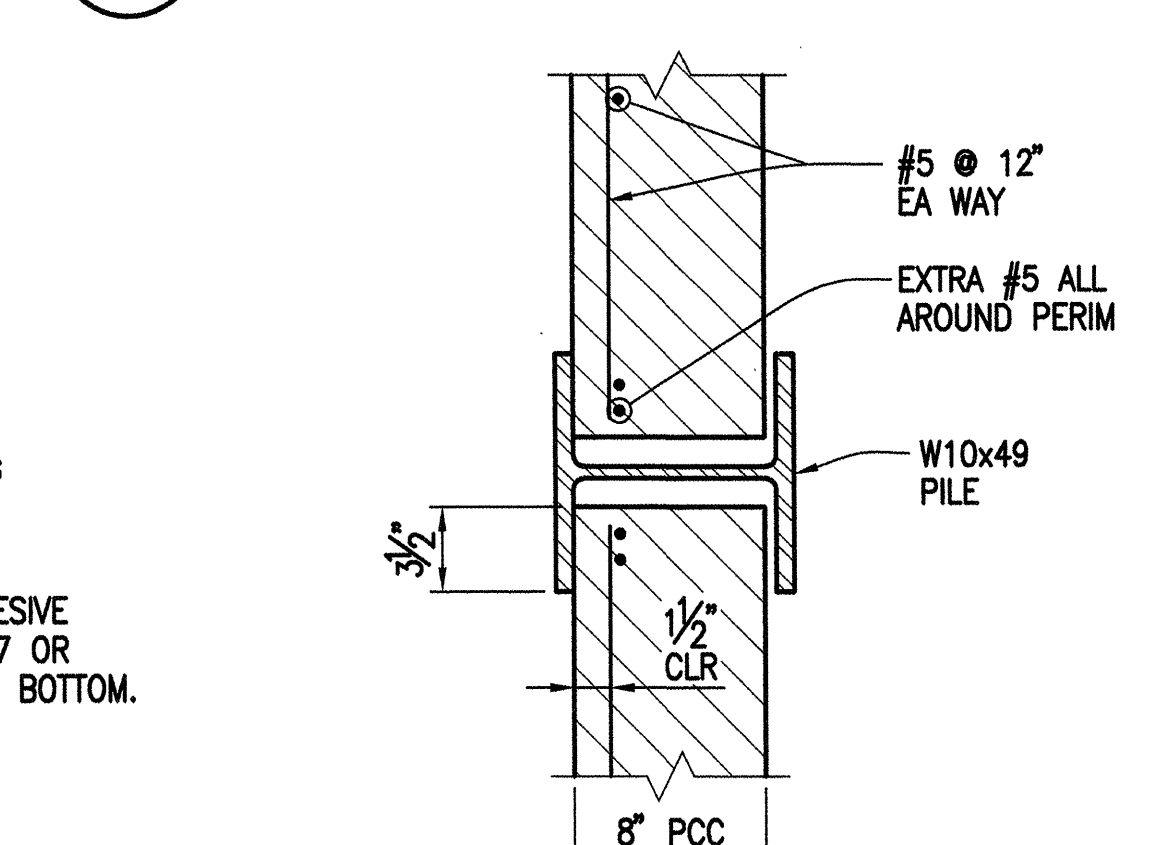
3 CIP RETAINING WALL SECTION
SCALE 1/2" = 1'-0"

4 PRECAST WALL SECTION
SCALE 1/2" = 1'-0"

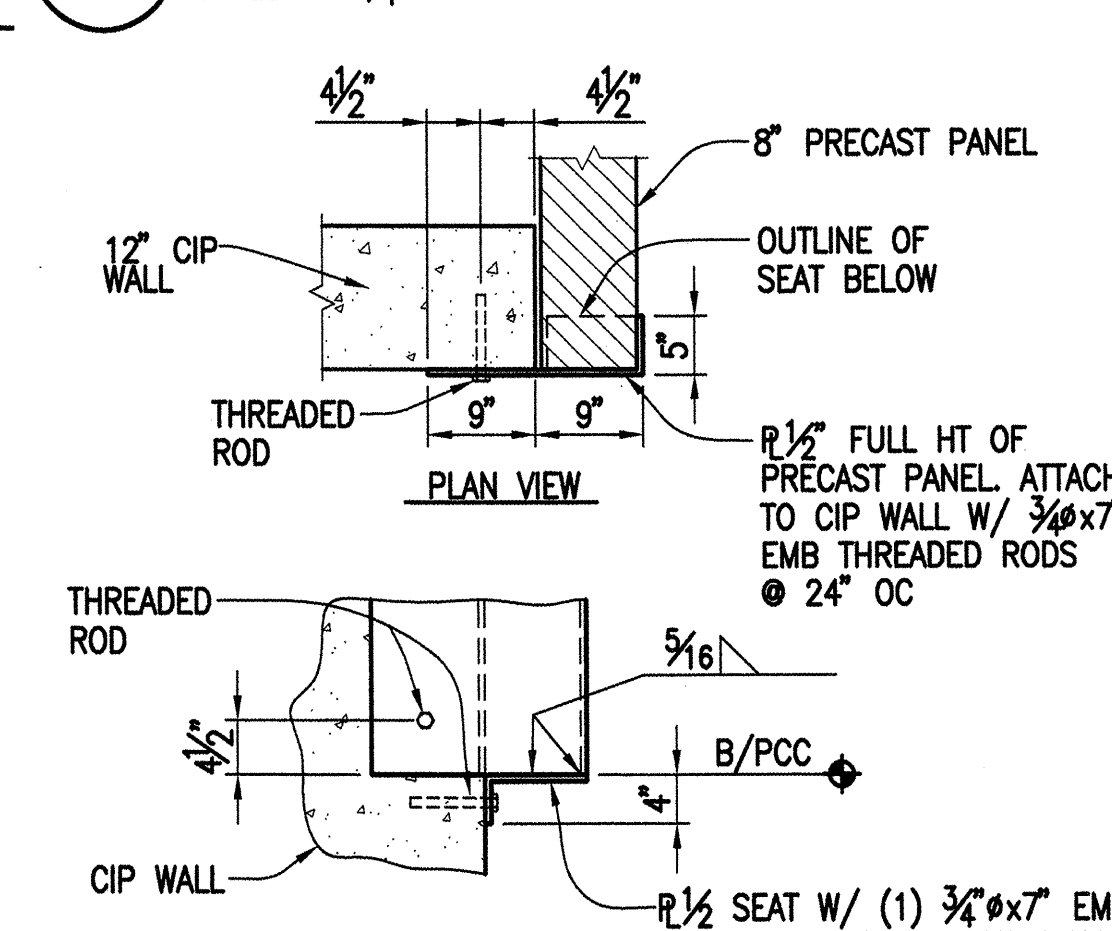
5 EXPANSION JOINT
SCALE 3/4" = 1'-0"



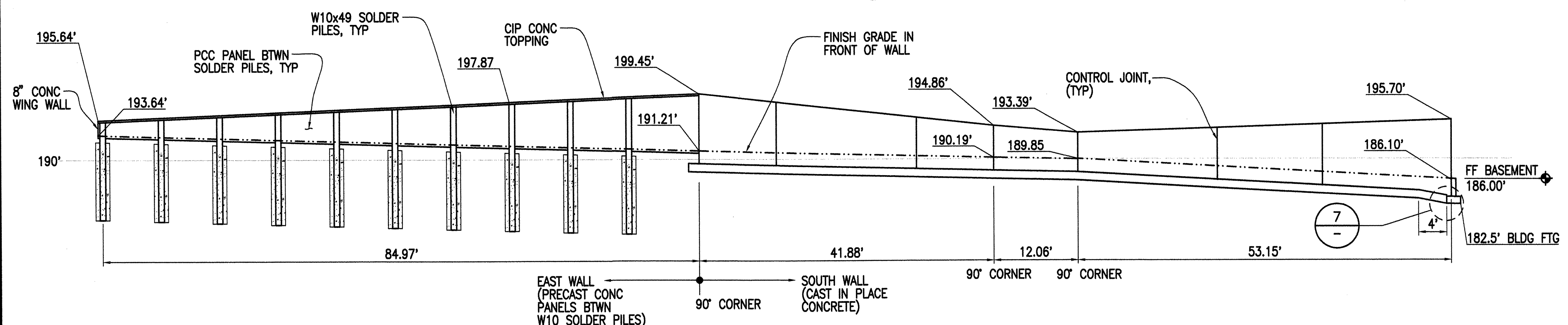
7 FOOTING DOWEL DETAIL
SCALE 3/8" = 1'-0"



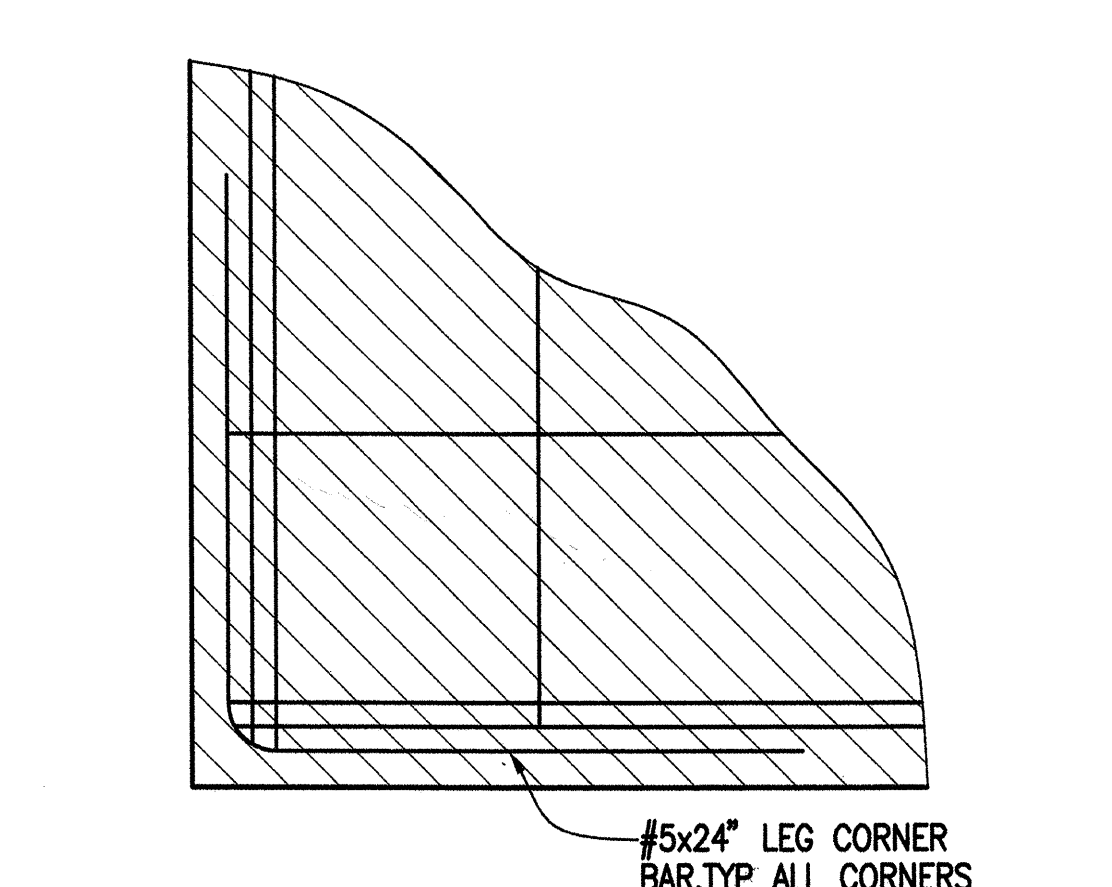
8 CONN @ W10
SCALE 1 1/2" = 1'-0"



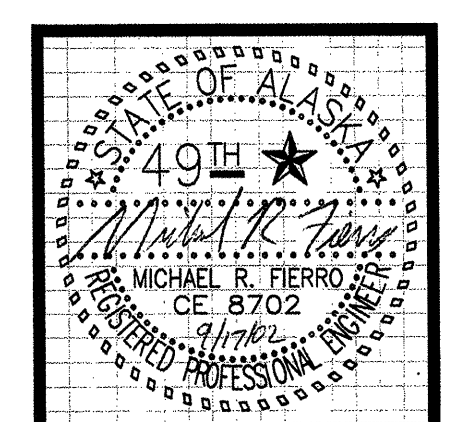
9 CORNER DETAIL
SCALE 3/4" = 1'-0"



2 RETAINING WALL ELEVATIONS
SCALE 1" = 10'-0"



10 PCC PANEL CORNER REINF DETAIL
SCALE 1 1/2" = 1'-0"



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808 E street, suite 200 • anchorage, alaska 99501 • (907) 272-8888

4300 B Street, Suite 403
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TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

drawn CSB
checked MRF
date 9-17-02
revisions
1 REVISED PLAN DIMS
2 REVISED EAST WALL

job no. 20152
dwg. title
RETAINING WALLS

sheet no.
S6.1

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PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	FIXTURE	SOIL WASTE	VENT	H.W.	C.W.	DESIGN BASIS PRODUCT (AS SPECIFIED, OR EQUAL)
P-1	WATER CLOSET	4'	2'		1'	AM STANDARD APWALL EL 16 ELONGATED BOUL WALL HUNG, FLUSH VALVE - SLOAN ROYAL III
P-2	WATER CLOSET	4'	2'		1'	AM STANDARD APWALL EL 16 ELONGATED BOUL WALL HUNG, FLUSH VALVE - SLOAN ROYAL III, BARRIER-FREE MOUNTING HEIGHT
P-3	URINAL	2'		1-1/2'	3/4"	AM STANDARD TRIMBROOK 10 WALL MOUNT BARRIER-FREE MOUNTING HEIGHT, FLUSH VALVE - SLOAN ROYAL 186-1
P-4	LAVATORY	1-1/2'	1-1/2'	1/2'	1/2'	COUNTERSET, BARRIER-FREE MOUNTING HEIGHT, INSULATE HU & WASTE, AM STANDARD ACOR 110 SINGLE LEVER FAUCET - DELTA 523 HDF W/ GRID DRAIN
P-5	LAVATORY	1-1/2'	1-1/2'	1/2'	1/2'	WALL HUNG BARRIER-FREE MT. HT. INSULATE HU & WASTE, AM STANDARD LUCERNE 0355 012 SINGLE LEVER FAUCET - DELTA 523 HDF W/ GRID DRAIN
P-6	SHOWER	2' [FD-1]	2'	1/2'	1/2'	TILE-IN TRIM ONLY, PRESS. BAL. MIXING VALVE, ADJUSTABLE SHOWER HEAD, 2 GPM FLOW CONTROL, INDIVIDUAL CHECK STOPS, DELTA 1225-CUGHDF
P-7	SHOWER	2' [FD-1]	2'	1/2'	1/2'	TILE-IN TRIM ONLY, BARRIER-FREE, PRESS. BAL. MIXING VALVE, FIXED SHOWER HEAD PLUS HAND HELD FLEXI-SHOOWER, 2.5 GPM FLOW CONTROL, INDIVIDUAL CHECK STOPS (GRAB BAR & FOLDING SEAT SPEC'D BY ARCH), DELTA 1205CUGHDF W/RP324HDF
P-8	MOPCEPTOR	3'	2'	1/2'	1/2'	TERRAZO 24" X 24" X 12" DEEP FLORESTONE MODEL 20 WHITE FAUCET, SPOKEMAN MR-317 W/ YACHT THERMOSTAT WALL BRACE, PAUL HOOK HOSE, THERMAD END BUMPER GUARDS, MR-313 HOSE & BRACKET MR-310 5' LONG FLEX HOSE, MOP-HANGER MR-312, STAINLESS STEEL WALL GUARDS - TWO PANELS 24" X 12"
P-9	DRINKING FOUNTAIN	1-1/2'	1-1/2'		1/2'	SIMULATED SEMI-RECESSED STAINLESS STEEL, PUSH BUTTON BUBBLER, ELKAY EDF-18-C
P-10	DRINKING FOUNTAIN	1-1/2'	1-1/2'		1/2'	SIMULATED SEMI-RECESSED STAINLESS STEEL, BARRIER-FREE MOUNTING HEIGHT, SELF-CLOSING FRONT PUSH BAR, FLEXI-GUARD SAFETY BUBBLER, ELKAY EDF-19-C
P-11	DARK ROOM SINK (SINGLE COMPT.)	2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, 22" X 22" X 10-1/2" D, JUST 9LX-2222-A-GR 2-HOLE PUNCHED, FAUCET - SINGLE LEVER, 11" HIGH SWING GOOSENECK SPOUT, DELTA TII-WF-HDF, INSTALL TAP MASTER MODEL 1750 KICK PEDAL CONVERSION.
P-12	CLINIC SINK (DOUBLE COMPT.)	2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, TWO COMPT. 16" X 16" X 10-1/2" D, JUST DLX-2231-A-GR 2-HOLE PUNCHED, FAUCET - SINGLE LEVER, 11" HIGH SWING GOOSENECK SPOUT, DELTA TII-WF-HDF, OUNER FURNISHED PLASTER TRAP WHERE SHOWN ON DRAWINGS.
P-13	CLINIC SINK (SINGLE COMPT.)	2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, 22" X 11" X 10-1/2" D, JUST 9LX-2211-A-GR 2-HOLE PUNCHED, FAUCET - SINGLE LEVER, 11" HIGH SWING GOOSENECK SPOUT, DELTA TII-WF-HDF, OUNER FURNISHED PLASTER TRAP WHERE SHOWN ON DRAWINGS.
P-14	STAFF LOUNGE SINK (SINGLE COMPT.)	2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, SINGLE COMPT. 22" X 22" X 10-1/2" D, JUST 9LX-2222-A-GR FAUCET - SINGLE LEVER, SWING SPOUT, AERATOR, DELTA 1209HDF, DISPOSAL, 18E MODEL 333 AIR GAP FITTING FOR DISHWASHER
P-15	HAND SINK	1-1/2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, CIRCULAR BOUL W/ OVERFLOW, 18-1/2" Ø X 11" D, JUST CLF-14, FAUCET - SINGLE LEVER, AERATOR, GRID DRAIN, DELTA 523 HDF.
P-16	HAND SINK	1-1/2'	1-1/2'	1/2'	1/2'	18 GA. TYPE 304 STAINLESS STEEL, SELF-RIMMING, SOUND DEADENED, SINGLE COMPT. 18" X 15" X 1-1/2" JUST 9L-1815-A-GR FAUCET - SINGLE LEVER, AERATOR, GRID DRAIN, DELTA 523 HDF.
P-17	DOUBLE SWING SPOUT FAUCET (ULTRASONIC E-20)	1-1/2'	1-1/2'	1/2'	1/2'	WALL MOUNTED SINGLE INLET, AERATOR, CHICAGO 932 WITH DUBKCP DOUBLE JOINTED SWING SPOUT.
P-18	KICK PEDAL CONVERSION				1/2'	TAP MASTER MODEL 1750, INSTALL @ SINKS WHERE INDICATED.
FD-1	FLOOR DRAIN	2'	2'			TOILET AREA GEN'L USE, SMITH 2210-A OR 2225-A (NO-HUB) W/TRAP PRIMER FITTING, MECHANICAL AREAS, SMITH 2310 OR 2310Y (NO-HUB) W/TRAP PRIMER FITTING.
FD-2	FLOOR DRAIN	2'	2'			TOILET AREA GEN'L USE, SMITH 2210-A OR 2225-A (NO-HUB) W/TRAP PRIMER FITTING, MECHANICAL AREAS, SMITH 2310 OR 2310Y (NO-HUB) W/TRAP PRIMER FITTING.
FS-1	FLOOR SINK	3'	2'			DENTAL UTILITIES ROOM, SMITH 3041C OR 3041Y (NO-HUB) WITH SEDIMENT BUCKET, WITH RIM & LESS GRATE, TRAP PRIMER FITTING.
RD-1	ROOF DRAIN - REGULAR					SMITH 1015 RC OR 1015-YRC (NO-HUB) C.I. BODY, ADJ. EXT. FLASHING CLAMP, GRAVEL STOP, NON-FERROUS DOME, UNDERDECK CLAMP, SUMP RECEIVER
RD-2	ROOF DRAIN - OVERFLOW					SMITH 1045 RC OR 1045-YRC (NO-HUB) C.I. BODY, ADJ. EXT. FLASHING CLAMP, GRAVEL STOP, NON-FERROUS DOME, UNDERDECK CLAMP, SUMP RECEIVER
RD-3	ROOF DRAIN - WALL SCUPPER					SMITH 1110 POLISHED BRONZE BODY & FLANGE, SECURING HOLES
HB-1	HOSE BIBB				3/4"	NON-FREEZE ANTI-SIPHON, BRONZE CASING, INT. VACUUM BRKR, 1/4 TURN "T" HANDLE, KEY LOCK, SMITH 5603-QT.

HEATING UNIT SCHEDULE

SYMBOL	TYPE	GLYCOL * (%)	FLUID IN	FLUID OUT	MBH	GPM	CFM	RPM	MOTOR HP/VOLTS/PH	DESIGN BASIS PRODUCT
UH-1	HORIZONTAL	50/50	190	160	220	16.7	5800	1140	3/4 / 115 / 1Ø	STERLING VS-36T
UH-2	VERTICAL	50/50	190	160	11	8	350	1350	9W / 115 / 1Ø	STERLING HS-18
CUH-1	CABINET	50/50	190	160	22.5	16	345	875	1/10 / 115 / 1Ø	STERLING W-1060, SIZE Ø4, 3 SPD SWITCH
CUH-2	CABINET	50/50	190	160	13.8	10	185	875	1/15 / 115 / 1Ø	STERLING W-1110, SIZE Ø2, 3 SPD SWITCH
CV-1	CONVECTOR	50/50	190	160	6.6	6	--	--	--	STERLING WA-32, 48" LONG, 6" DEEP
RP-1	RADIANT PANEL	50/50	190	170	301	--	--	--	--	AIRTEX 16" WIDE 4 TUBE
RP-2	RADIANT PANEL	50/50	190	170	168	SEE PLAN	--	--	--	AIRTEX HPH 2448, PANEL SCREEN/PAINT TO MATCH CEILING
RP-3	RADIANT PANEL	50/50	190	170	84	SEE PLAN	--	--	--	AIRTEX HPH 2424, PANEL SCREEN/PAINT TO MATCH CEILING
B-1 & 2	BOILER	50/50	170	190	1991	200	--	--	1/4 / 115 / 1Ø	SECTIONAL CAST IRON, GAS FIRED, 1991 MBH GROSS OUTPUT, 2-STAGE BURNER, 50 PSIG ASME RELIEF VALVE, PIPE TO DRAIN, WEIL-MCLAIN 908 OR EQUAL
WH-1 & 2	WATER HEATER	50/50	50	120	--	--	--	--	--	AMTROL WH-80 SERIES, CONTINUOUS FLOW, 10' RISE, 3/2 GPH
AS-1	AIR SEPARATOR	50/50	190	190	--	230	--	--	--	AMTROL 4-AS W/ S.S. STRAINER
ET-1 & 2	VERTICAL	50/50	--	--	--	--	--	--	--	PRE-FREESURIZED DIAPHRAM TYPE EXPANSION TANK, 40 GAL. ACCEPTANCE EACH, AMTROL 5X-160V, CHARGE TO 22 PSIG

* PROPYLENE

SLOT DIFFUSER SCHEDULE

SYMBOL	LENGTH	NO. OF SLOTS	DIRECTION OF FLOW	DESIGN BASIS PRODUCT
(A)	24	4	ADJUSTABLE	TITUS MPI-39-SP, 6" ROUND INLET, 1 INCH SLOT WIDTH
(B)	24	2	ADJUSTABLE	TITUS MPI-39-SP, 6" ROUND INLET, 1 INCH SLOT WIDTH
(C)	24	2	ADJUSTABLE	TITUS MPI-39, 6" ROUND INLET, 1 INCH SLOT WIDTH
(D)	48	4	ADJUSTABLE	TITUS MPI-39-SP, 8" ROUND INLET, 1 INCH SLOT WIDTH
(E)	48	2	ADJUSTABLE	TITUS MPI-39, 8" ROUND INLET, 1 INCH SLOT WIDTH
(F)	48	2	ADJUSTABLE	TITUS MPI-39, 6" ROUND INLET, 1 INCH SLOT WIDTH
(G)	24	4	ADJUSTABLE	TITUS MPI-39, 8" ROUND INLET 1" SLOT WIDTH
(H)	24	4	ADJUSTABLE	TITUS MPI-39-SP-FF, 8" ROUND INLET 1" SLOT WIDTH, PLASTER FRAME

PUMP SCHEDULE

SYMBOL	LOCATION	SERVICE	FLUID TYPE	TEMP.	GPM	HEAD FT.	RPM	MOTOR HP/VOLTS/PH	DESIGN BASIS PRODUCT
PMP-1	BOILER Ø11	MAIN CIRC. PUMP	GLYCOL	190	110	45	1750	3/460/3Ø	TACO MODEL 1641, 1" IMPELLER
PMP-1A	BOILER Ø11	MAIN CIRC. PUMP	GLYCOL	190	110	45	1750	3/460/3Ø	TACO MODEL 1641, 1" IMPELLER
PMP-2	BOILER Ø11	DOM. WATER MAKER	GLYCOL	190	7	15	1750	1/8/120/1Ø	TACO MODEL 113
PMP-2A	BOILER Ø11	DOM. WATER MAKER	GLYCOL	190	7	15	1750	1/8/120/1Ø	TACO MODEL 113
PMP-3	BOILER Ø11	BOILER RECIRC.	GLYCOL	190	200	15	1750	1.5/460/3Ø	TACO - KV 30ØT, 12" IMPELLER
PMP-3A	BOILER Ø11	BOILER RECIRC.	GLYCOL	190	200	15	1750	1.5/460/3Ø	TACO - KV 30ØT, 12" IMPELLER
PMP-4	BOILER Ø11	DOM. HUC	H2O	110	5	10	1750	1/8/120/1Ø	TACO - ØØ14, BRONZE, LEAD FREE
PMP-5	BOILER Ø11	SNOW MELT	GLYCOL	120	32	35	1750	3/4/460/3Ø	TACO MODEL 1615, 6" IMPELLER
PMP-5A	BOILER Ø11	SNOW MELT	GLYCOL	120	32	35	1750	3/4/460/3Ø	TACO MODEL 1615, 6" IMPELLER
PMP-6	BOILER Ø11	SNOW MELT INJECTION	GLYCOL	190	20	17	1750	1/4/120/1Ø	TACO MODEL 121 W/ VARIABLE SPEED MOTOR
PMP-7	BOILER Ø11	GLYCOL MAKE-UP	GLYCOL	10	10	120	1750	1/3/120/1Ø	MEYER MODEL HV 335

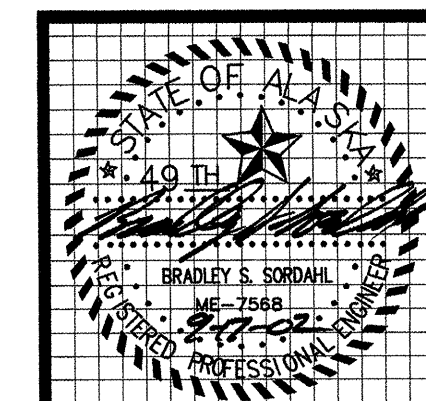
RTU-1 & 2 - COMMERCIAL ROOFTOP AIR CONDITIONING UNITS, TRANE MODEL 9LHFC604, DX COOLING WITH HYDRONIC HEATING COIL, 60 TONS NOMINAL COOLING CAPACITY, LOW HEAT CAPACITY COIL, 90-95 PERCENT EFFICIENT CARTRIDGE FILTER SECTION WITH 30 PERCENT EFFICIENT PRE-FILTERS, 100% EXHAUST WITH STATITRAC CONTROL, 1-1/2 HP/460V/3 PHASE MOTOR, 40 HP/460V/3 PHASE SUPPLY FAN MOTORS, HIGH EFFICIENCY MOTORS, 100 PERCENT ECONOMIZER CONTROL, SUPPLY AND EXHAUST FAN VARIABLE FREQUENCY DRIVES WITH BYPASS, 2Ø SEISMIC RESTRAINED VIBRATION ISOLATORS, UL APPROVED, FLAT ROOF CURBS, 115 VOLT CONVENIENCE OUTLET, GENERIC BUILDING AUTOMATION SYSTEM MODULE COMPATIBLE WITH JOHNSON CONTROLS.

AC-1, CU-1 - SPLIT SYSTEM AIR CONDITIONING UNIT, INDOOR UNIT MITSUBISHI FC3ØEK, 31000 BTU COOLING CAPACITY, 115V, 1 PHASE, 60 HZ. OUTDOOR UNIT PU3ØEK, DERATED FOR 2ØØV, 1 PHASE, 60 HZ.

LEGEND

ABBR.	EXPLANATION	SYMBOL
NIC	NOT IN CONTRACT	
	IN GENERAL CONSTRUCTION	
MOV	2-WAY MOTOR OPERATED VALVE	
MOV	3-WAY MOTOR OPERATED VALVE	
PRV	PRESSURE RELIEF VALVE	
RV	RELIEF VALVE	
CV	CHECK VALVE	
	BALL VALVE	
	GLOBE VALVE	
	BALANCING/ISOLATION VALVE	
	SQUARE HEAD COCK	
	UNION	
	PIPE ANCHOR	
	PIPE GUIDE	
	EXPANSION COMPENSATOR	
	FLOW CONTROL VALVE	
	STRAINER WITH DRAIN VALVE	
	PRESSURE GAGE	
	THERMOMETER	
S/W	SANITARY SOIL/WASTE	
PS	PUMPED SANITARY SOIL/WASTE	
V	VENT	
VTR	VENT THRU ROOF	
CO	CLEANOUT	
WCO	WALL CLEANOUT	
FCO	FLOOR CLEANOUT	
CW	COLD WATER	
HW	HOT WATER	
HWC	HOT WATER CIRCULATION	
T	TEMPERED WATER	
RL	RAIN LEADER	
RD	ROOF DRAIN	
SD	STORM DRAIN	
FD	FLOOR DRAIN	
HB	HOSE BIBB	
WH	WALL HYDRANT	
A	COMPRESSED AIR	
SP	SPRINKLER	
FDC	FIRE DEPARTMENT CONNECTION	
F	FIRE	
CWS	CHILLED WATER SUPPLY	
CWR	CHILLED WATER RETURN	
GS	GLYCOL SUPPLY	
GR	GLYCOL RETURN	
HWS	HEATING WATER SUPPLY	
HWR	HEATING WATER RETURN	
FOS	FUEL OIL SUPPLY	
FOR	FUEL OIL RETURN	
G	GAS	
T*STAT	THERMOSTAT	
T*STAT	RETURN AIR THERMOSTAT	
AAV	AUTOMATIC AIR VENT	
S/A	SUPPLY AIR	
R/A	RETURN AIR	
O/A	OUTSIDE AIR	
E/A	EXHAUST AIR	
BD	BALANCING DAMPER	
FD	FIRE DAMPER	
MOD	MOTOR OPERATED DAMPER	
	FLEXIBLE CONNECTION	
	AIR EXTRACTOR	
	AIR FOIL TURNING VANES	
	FLEXIBLE DUCT	
	SUPPLY AIR SLOT W/FLEX DUCT	
	RETURN AIR SLOT	
	DUCT IDENTIFICATION SYMBOL	
	SUPPLY AIR REG. GRILLE, OR DIFFUSER	
	RETURN/EXHAUST AIR REG. OR GRILLE	
SL	ACOUSTICALLY LINED DUCT	
	THERMALLY INSULATED DUCT OR PIPE	
HC	HEATING COIL	
CC	COOLING COIL	
DD	DUCT DETECTOR	
	AIR FLOW MEASURING DEVICE	
	STATIC PRESSURE SENSOR	

THIS IS A STANDARD LEGEND, SOME SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY ON THE DRAWING.



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 2001 University Ave. SE #200
 Minneapolis, Minnesota 55414
 612.379.9213 Fax: 612.379.9263

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