

**SPECIFICATIONS**

**DEMOLITION:** Demolition to be done as shown on the plans, or as required in the field. Field check for existing utility lines before demolition work begins.

**CONCRETE WORK:** Cement . . . Portland Type 1A, ASTM Designation C-175.

**Aggregate . . .** All concrete aggregates shall meet the requirements of ASTM Designation C33-71a, Army Corps of Engineers Designation CRD-CL33-73 or Michigan Department of State Highways Specifications Section 8.02.06. (Specifications for physical requirements for concrete aggregates)

**Course Aggregate . . .** Stone or crushed rock of hard durable pieces, well graded and free from clay or organic substance. Maximum size not to exceed 1/5 of the minimum dimension of concrete member in which placed and not to exceed 3/4 of clear spacing between reinforcing steel. Maximum size aggregate for floor slabs and sidewalks shall be 3/4".

**Fine Aggregates . . .** Hard natural sand, free of dirt or clay.

**Water . . .** Free of injurious amounts of oil, entrained or dissolved solids.

**Mixture . . .** Designed to produce a minimum compression strength at 28 days of 3,500 p.s.i. When transit-mixed concrete is used, copies of delivery slips shall be furnished to the Inspector. Stock at jobsite sleeves for casting test cylinders.

**Reinforcing Bars . . .** Intermediate grade, deformed steel, ASTM Designation A-615 and A-617. Bars lapped at least 27 diameters or a minimum of 20 inches when placed.

**Forms . . .** Forms shall conform to the shapes, lines and dimensions of the members as shown on the plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced or tied together so as to maintain position and shape and shall be substantially free from surface defects. No earth cut forms will be allowed.

**MASONRY:** Block . . . Conforming to ASTM Designation C-90. All blocks to be standard concrete, all using same mix and aggregate and from the same manufacturing source.

**Mortar . . .** Brivment or an approved prepared mortar.

**Mortar Joints . . .** All mortar joints tooled with a concave jointer.

**Masonry Construction in Cold Weather . . .** Unless equipment is utilized to protect masonry from freezing, no masonry shall be built when the temperature is below 32°F on a rising temperature or below 40°F on a falling temperature at the point where the work is in progress.

**STRUCTURAL STEEL:** Conforming to the standard specifications for bridges and buildings, ASTM Designation A-36 for intermediate or hard grade steel. Shop paint all structural steel after cutting and welding with red lead primer. Field paint, also, damaged shop coat and field connections. Submit shop drawings for approval. Steel connections at laminated wood to be provided by laminated wood fabricator. (See Below)

**Steel Beam . . .** Wide flange beam, W8 x 13 to be finished with red lead primer paint.

**Structural Metals Connectors . . .** All structural beam connectors shall be formed of 1/4" hot rolled steel. See drawings for size and location.

**Channel . . .** Steel channel 9" x 20", see plans for location.

**MISCELLANEOUS METALS AND HARDWARE:** Nails . . . All to be hot-dipped galvanized except for concealed framing. Exposed exterior nailing to be casing nails driven flush with the surface. Interior paneling and trim nails set and nailholes filled.

**Anchor Bolts and Steel Angles . . .** Sized as shown on the drawings.

**LUMBER AND MILLWORK:** Concealed Framing . . . S4S kiln-dried #2 common southern pine, or kiln-dried western softwoods, with unit bending stress of 1,200 minimum and grade-stamped by agencies certified by the American Lumber Standards Committee. Provide solid wood backing for attachment fasteners for toilet partitions, door channel jambs, brackets and lavatory carriers.

**Counter and Shelving . . .** Clear birch plywood, all exposed edges trimmed with birch. See PAINTING AND DECORATING for stain color.

**Interior Walls . . .** Knotty pine stained to match existing walls.

**Drywall Plaster (First Aid Room) . . .** 5/8" Flintkote super fire halt gypsum wall board.

**Wood siding 2 x 10 white pine resawn horizontal siding to be furnished by the Department of Natural Resources, Parks Division. See PAINTING AND DECORATING for color.**

**Wood Decking Located at Wood Decks . . .** 2" x 6" nominal, not tongue and groove. All wood used at decks to be Douglas fir appearance grade #1 common. Lumber at deck shall be pressure-impregnated in accordance with the specifications for treatment of Koppers Company, Inc. with Wolman OCA wood preservative and shall bear the trademark "Wolmanized". After pressure treatment, lumber shall be kiln-dried to an average moisture content of 16% or less before staining. Decking to be stained with Koppers color #661 Golden Pine.

**Wood Railings . . .** 2" x 6" Douglas fir lumber, treated same as wood decking. Railing stained Koppers color #661 Golden Pine.

**Stairs and Facing . . .** Shall be fabricated from Douglas fir lumber. Stairs and facing treated same as wood decking. Both stained with Koppers color #661 Golden Pine.

**Wood Post . . .** 6" x 6" wood post, treated same as wood decking and railing. Stained with Koppers color #661 Golden Pine.

**PAINTING AND DECORATING:**

**EXTERIOR:**

**Wood Siding . . .** One coat of Olympic stain semi-transparent color #700, or color to match existing siding.

**INTERIOR:**

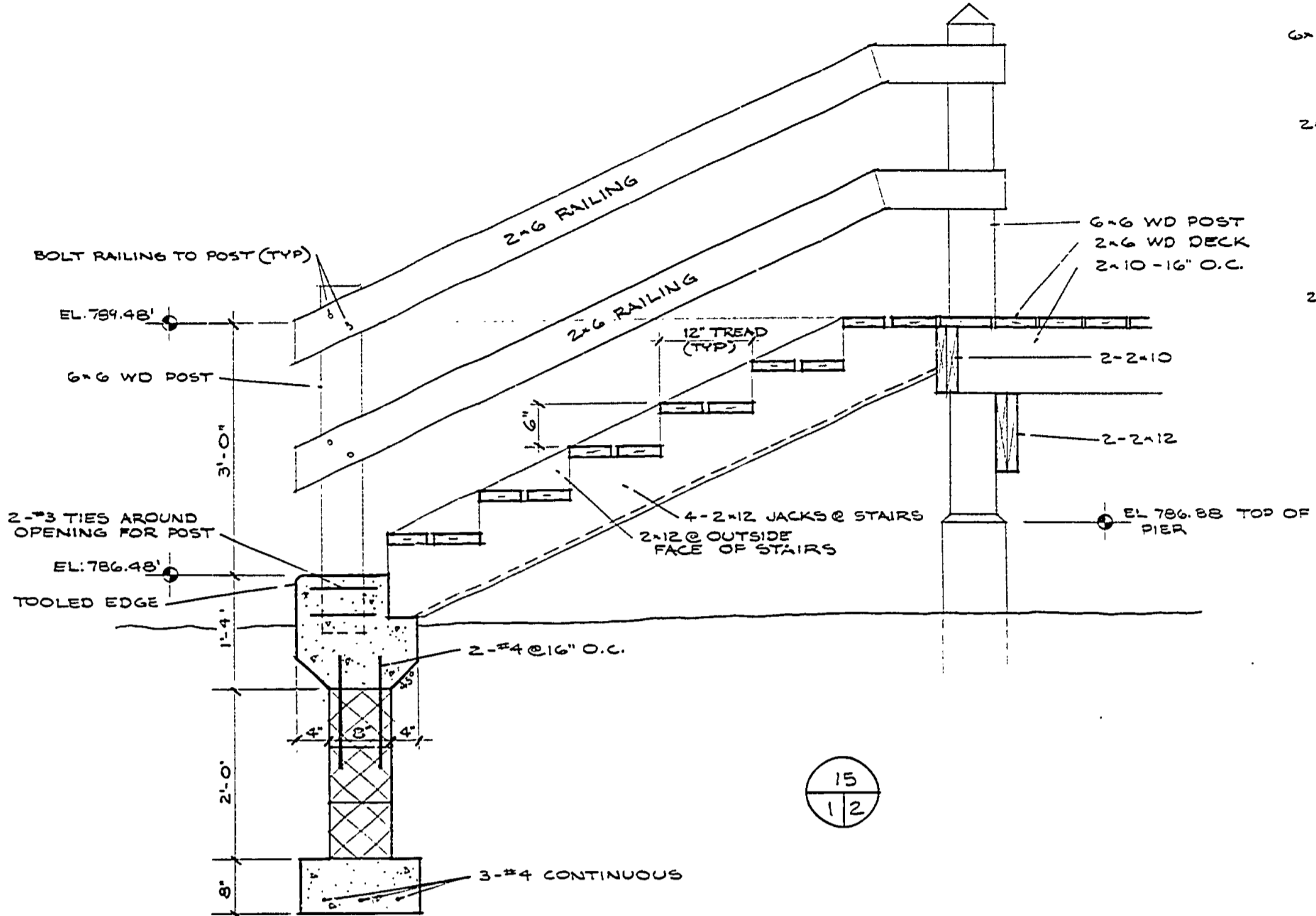
**Block Walls . . .** Pratt and Lambert epoxy paint, color to match existing walls.

**Dry Wall Plaster . . .** Paint to match existing walls.

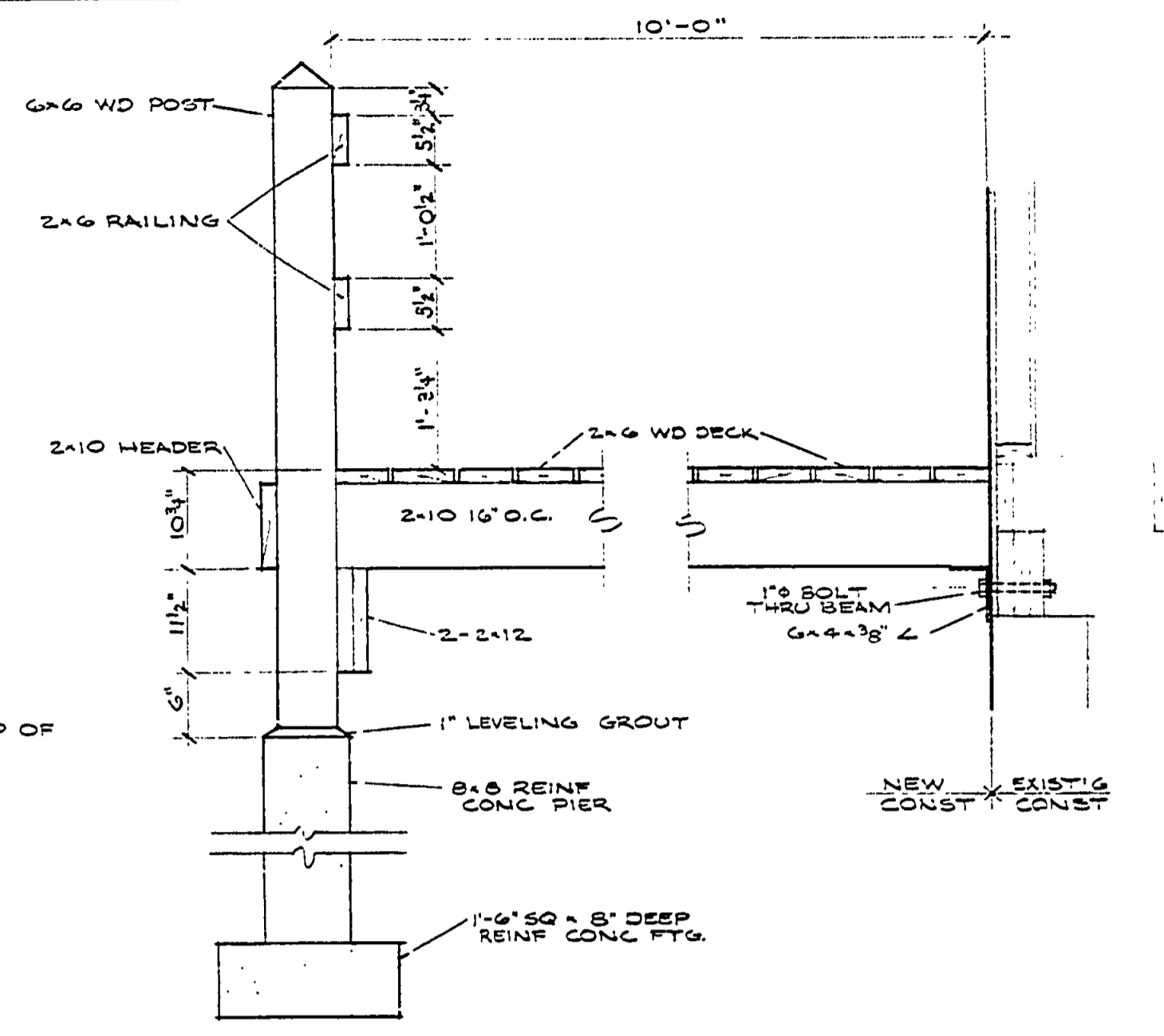
**Counter and Shelving . . .** One coat of Olympic semi-transparent stain, color #709.

**Metal Connectors and Bolts . . .** One coat Pratt and Lambert Noxide protective coating one day primer, two coats Pratt and Lambert Pro-Hide latex flat house paint, color to match existing wall colors.

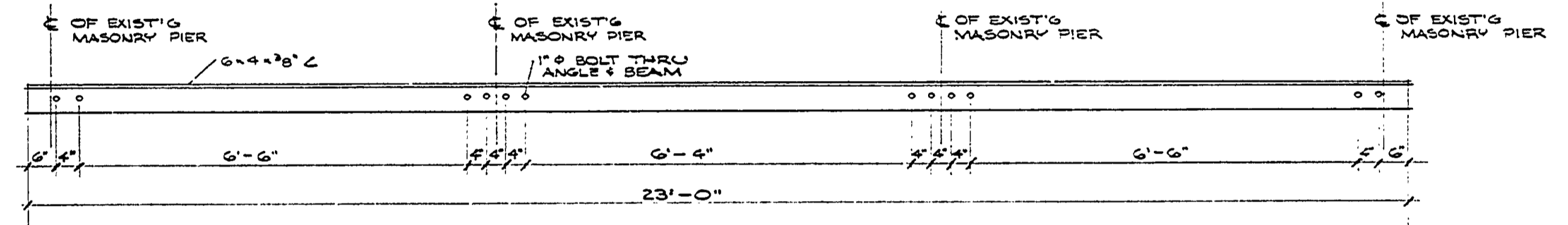
**Counter Top . . .** Formica laminated plastic color Beige Rawhide, design #722, finish #58. Applied with thermo setting adhesive to exterior grade AD plywood. Other manufacturers are General Electric Texolite or Nevamar.



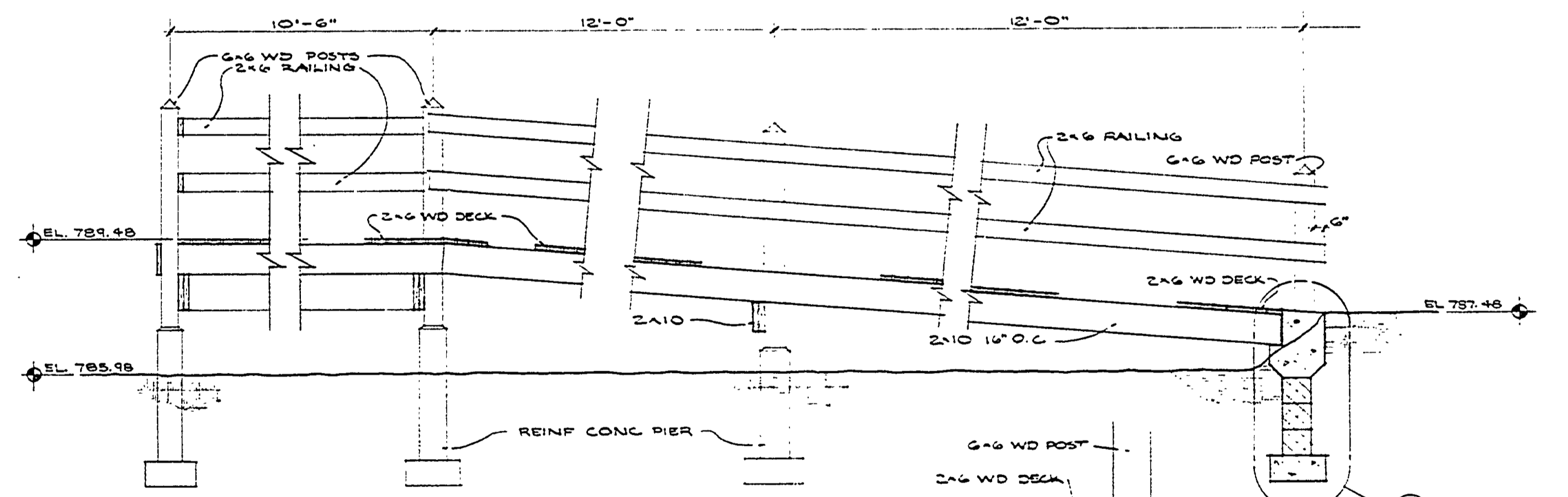
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1/2



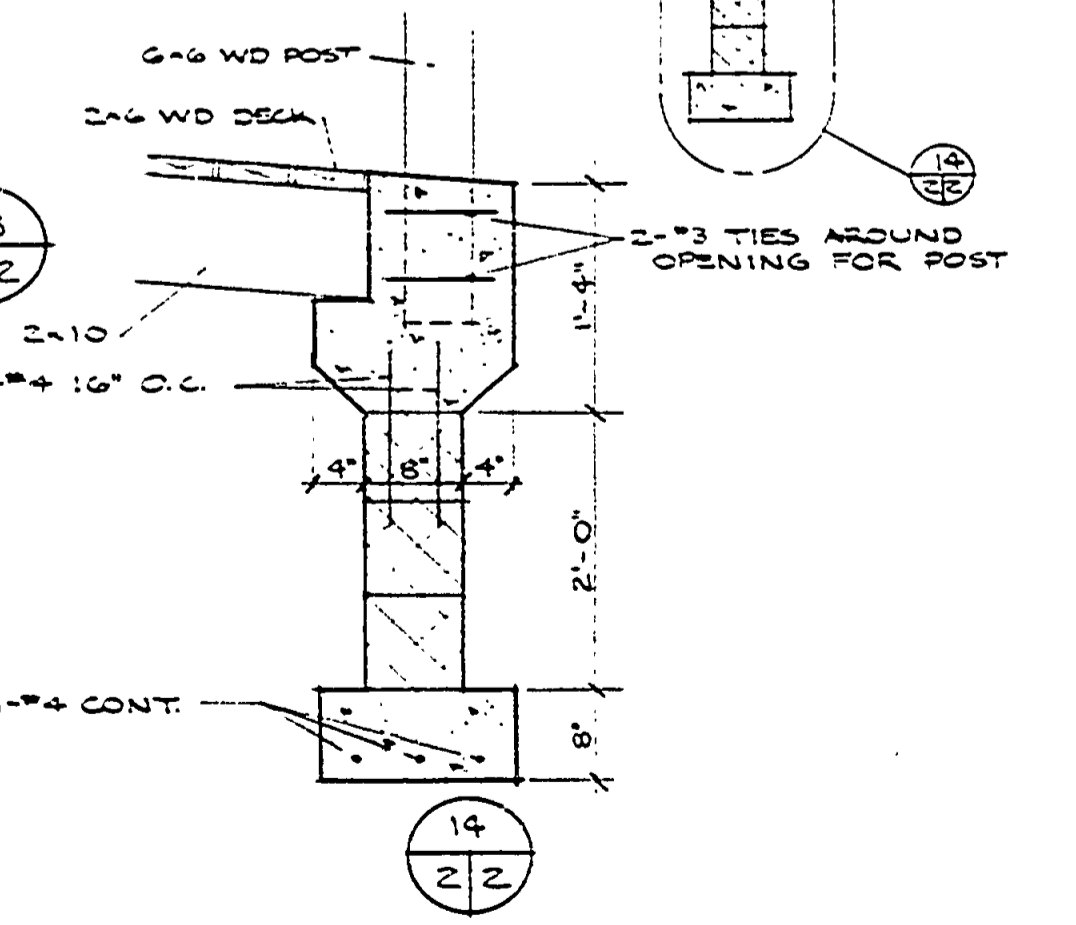
DETAIL 12  
3/8\"/>



ELEVATION OF SUPPORT ANGLE  
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SECTION THRU RAMP 13  
3/8\"/>



14  
2/2

SURVEYED BY		DRAWN BY		NO. DATE BY		REVISIONS		NO. DATE BY		REVISIONS		MICHIGAN DEPARTMENT OF NATURAL RESOURCES		PORCUPINE MT. STATE PARK AREA OR PARK		PROJECT NO. 24-1469	
DESIGNED BY		CHECKED BY		1.				3.				SHEET TITLE		REMODEL EXISTING BUILDING (SKI CHAIR)		SHEET 2 OF 2	
DATE		DATE		2.				4.								PLAN NO. A-1/9	

Stair Plan, Sections, Details & Specifications