

CITY OF ALBUQUERQUE

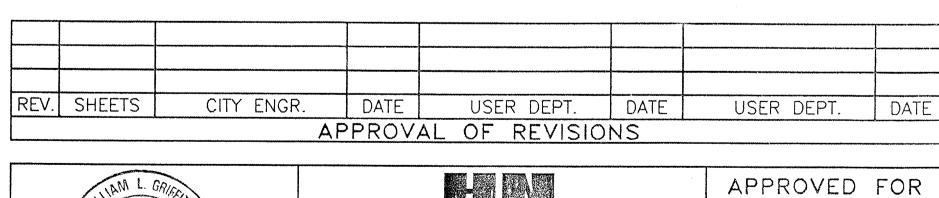
OPEN SPACE DIVISION PARKS AND GENERAL SERVICES DEPARTMENT

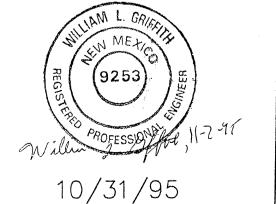
ACCESSIBLE TRAIL AT ELENA GALLEGOS PICNIC AREA

FOR INFORMATION ONLY

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TURNOUT SECTION GUARDRAIL AND APPROACH DETAILS ASSEMBLY DETAILS SECTIONS AND DETAILS





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CONSTRUCTION

LOCATION MAP

PROJECT NO. 5116.91

SHEET T-1 OF 1

1. DESIGN CRITERIA

A. CODES

- 1. UNIFORM BUILDING CODE 1994
- 2. AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
- 3. ACI 318-89. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

B. LOADS

- 1. LIVE LOAD ON WALKWAY: 100 PSF
- 2. WIND LOAD PER 1994 UBC. BASIC WIND SPEED = 80 MPH.

2. ACCESSIBILITY REQUIREMENTS

- A. SURFACE OF TRAIL, INCLUDING RAMPS, LANDINGS, DECK AND REST STOPS, SHALL HAVE NO VERTICAL OFFSET IN SURFACE GREATER THAN 1/4-INCH.
- B. CONSTRUCT TRAIL TO GRADES SHOWN. DO NOT EXCEED SLOPE OF 5% IN DIRECTION OF TRAVEL EXCEPT AT DESIGNATED RAMPS.
- C. CROSS SLOPE OF TRAIL PERPENDICULAR TO DIRECTION OF TRAVEL SHALL NOT EXCEED 2%.

3. CONCRETE

- A. CONCRETE PEDESTALS AND FOOTINGS SHALL BE IN ACCORDANCE WITH FOLLOWING CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS:
 - 101 PORTLAND CEMENT CONCRETE
 - 102 STEEL REINFORCEMENT

510 CONCRETE STRUCTURES

MINIMUM COMPRESSIVE STRENGTH OF CONCRETE: 3000 PSI AT 28 DAYS.

- B. CONCRETE WALKS SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2430. "SIDEWALK DETAILS." AND THE FOLLOWING STANDARD SPECIFICATIONS:
 - 101 PORTLAND CEMENT CONCRETE
 - 102 STEEL REINFORCEMENT
 - 111 COLORED PORTLAND CEMENT CONCRETE
 - 340 PORTLAND CEMENT CONCRETE WALKS

COLOR SHALL BE AS ACCEPTABLE TO CITY REPRESENTATIVE.

- 4. NON-SHRINK GROUT UNDER BASEPLATES FOR 6X10 BEAMS: PRE-MIXED, CEMENTITIOUS, NONMETALLIC. MIX AND INSTALL PER MANUFACTURER'S DIRECTIONS. ACCEPTABLE PRODUCTS: MASTER BUILDERS "SET GROUT," GIFFORD-HILL "SUPREME GROUT," OR APPROVED EQUAL.
- 5. CONNECTION HARDWARE
- A. FABRICATED STEEL PLATE ASSEMBLIES
- (1) THESE ASSEMBLIES ARE:
- a. BEAM SADDLE ASSEMBLY CONNECTING 6X10 BEAMS TO CONCRETE PEDESTALS.
- b. POST SLEEVE ASSEMBLY AND EDGE POST SLEEVE ASSEMBLY CONNECTING 4X4 HANDRAIL POSTS TO 6X10 BEAMS.
- (2) PLATES: ASTM A36
- (3) STEEL TUBE: ASTM A500, GRADE B
- (4) WELDING: SHOP WELDING BY CERTIFIED WELDERS PER AWS D1.1. USE E70XX ELECTRODES.
- (5) FINISH OF FABRICATED STEEL PLATE ASSEMBLIES: GALVANIZED TO ASTM A123.
- B. JOIST HANGERS FOR 2X10 JOISTS: TYPE U210 BY SIMPSON STRONG-TIE COMPANY, 16 GAGE GALVANIZED STEEL.
- C. BOLTS: ASTM A307. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED TO ASTM A123.
- D. LAG BOLTS: ASTM A307, GALVANIZED TO ASTM A123. INSTALL LAG BOLTS AS FOLLOWS.
 - (1) DRILL LEAD HOLE FOR LAG BOLT. - CLEARANCE HOLE FOR SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
 - LEAD HOLE FOR THREADED PORTION SHALL HAVE A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. DIAMETER OF LEAD HOLE SHALL BE: FOR 3/8-INH LAG BOLT, 1/4-INCH LEAD HOLE
 - FOR 1/2-INCH LAG BOLT, 5/16-INCH LEAD HOLE FOR 5/8-INCH LAG BOLT, 7/16-INCH LEAD HOLE (2) INSERT THREADED PORTION OF THE LAG BOLT BY TURNING WITH

A WRENCH. NOT BY DRIVING WITH A HAMMER,

(3) USE SOAP OR OTHER LUBRICANT ON THE LAG BOLT TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG BOLT

- E. SCREWS: ZINC-PLATED STEEL. USE FLAT HEAD SCREWS WHERE SCREW HEAD IS SET INTO WOOD. USE ROUND HEAD SCREWS WHERE SCREW HEAD IS SET OVER STEEL PLATE. DRILL 1/8-INCH LEAD HOLES IN WOOD MEMBER FOR NO. 10 WOOD SCREWS.
- F. SUBSTITUTION OF NAILS FOR WOOD SCREWS SHOWN ON THE DRAWINGS IS NOT PERMITTED.

G. NAILS

- (1) USE NAILS ONLY FOR CONNECTING JOIST HANGERS U210 TO 2x10 JOISTS AND 6×10 BEAMS, FOR TOENAILING BENCH SUPPORTS. AND FOR CONNECTING FRAMING ANCHOR TO 2x4 RAIL AND 4x4 POST AT RAMPS.
- (2) NAILS FOR CONNECTING JOIST HANGERS TO 2×10 JOISTS AND 6X10 BEAMS: 10d COMMON, SMOOTH SHANK, 9 GAGE WIRE, 1 1/2-INCH LONG, GALVANIZED STEEL, SIMPSON "N10" OR APPROVED EQUAL.
- (3) NAILS FOR TOENAILING BENCH SUPPORTS: 10d COMMON, SMOOTH SHANK, 9 GAGE WIRE, 3 INCHES LONG, GALVANIZED STEEL.
- (4) NAILS FOR CONNECTING FRAMING ANCHOR FOR 2x4 : 8d COMMON, SMOOTH SHANK, 1 1/2-INCH LONG, GALVANIZED STEEL.

6. WOOD

- A. ALL WOOD SHALL BE "SUNWOOD" WITH PRESERVATIVE TREATMENT AS FURNISHED BY DRISCOLL BUILDING MATERIALS INC., ALBUQUERQUE, NM. CONTACT IS DAVID JAROSZ, 897-2244.
- B. SPECIES AND GRADE OF WOOD SHALL BE AS FOLLOWS:
- (1) 2x2, 2x4, 2x6, 2x10 : SOUTHERN PINE NO. 2 OR BETTER, SURFACED 4 SIDES.
- (2) 4x4 : HEM-FIR NO. 2, SURFACED 4 SIDES
- (3) 6x10 : DOUGLAS FIR NO. 2, SURFACED 4 SIDES.
- C. COAT ALL CUT ENDS OF WOOD WITH "SUNWOOD TONER." APPLY PER MANUFACTURER'S INSTRUCTIONS.
- D. SEAL TOP SURFACE OF 2x4 DECK PLANKS WITH FIELD APPLIED WATER-RESISTANT SEALER, THOMPSON'S WATER SEAL OR SIMILAR AS RECOMMENDED BY TREATED WOOD SUPPLER TO BE COMPATIBLE WITH TREATMENT.
- 7. STEEL PIPE RAILS
- A. PIPE: ASTM A53, TYPE E OR S, GRADE B
- B. CONNECT WITH CONTINUOUS WELDED JOINTS.
- C. CLOSE EXPOSED ENDS OF PIPE WITH 3/16-INCH PLATE.
- D. FORM CURVES BY BENDING TO PRODUCE UNIFORM CURVATURE WITHOUT BUCKLING OR DISTORTION.
- E. FINISH OF PIPE RAILS: POWER TOOL CLEAN, ONE COAT, 3.0 MILS, OF SHERWIN WILLIAMS KEM KROMIK METAL PRIMER. 2 COATS, 2.0 MILS EACH COAT, OF SHERWIN WILLIAMS SILICONE ALKYD ENAMEL. COLOR AS SELECTED BY CITY REPRESENTATIVE.
- 8. EXPANSION JOINTS: FIBRE TYPE, ASTM D1751.

SPECIFICATIONS FOR EARTHWORK

1. SCOPE

Includes all clearing and grubbing, removal of obstructions, general excavating, grading and filling, and any related items necessary to complete the grading for the entire project in accordance with these specifications.

2. SUBSURFACE SOIL DATA

Subsurface soil investigations have been made, and the results are available for examination by the contractor. The contractor is expected to examine the site and determine for himself the character of materials to be encountered.

No additional allowance will be made for rock removal, site clearing and grading, filling, compaction, disposal, or removal of any unclassified materials.

3. CLEARING & GRUBBING

- A. General: Clearing and grubbing will be required for all areas shown on the plans to be excavated or on which fill is to be constructed.
- B. Clearing: Clearing shall consist of removal and disposal of trees and other vegetation as well as down timber, snags, brush, rubbish, and existing pavements and structures within the areas to be cleared. Individual trees, groups of trees, or other vegetation not required to be removed shall be protected, insofar as practical, and left standing.
- C. Grubbing: Stumps, matted roots, and roots larger than 2 inches in diameter, shall be removed from within 6 inches of the surface of areas on which fills are to be constructed except in roadways. Materials as described above within 18 inches of finished subgrade of roadways, in either cut or fill sections, shall be removed. Areas disturbed by grubbing will be filled as specified herein for EMBANKMENT.
- D. Grass & Topsoil: Grass, grass roots, and incidental topsoil shall not be left beneath a fill area, nor shall this material be used as fill material. Grass, grass roots and topsoil may be stockpiled and later used in the top 6 inches of fills outside roadways and building pads.

4. EARTH EXCAVATION

- A. Earth excavation shall consist of the excavation and removal of suitable soils for use as embankment, as well as the satisfactory disposal of all vegetation, debris, and deleterious materials encountered within the area to be graded and/or in a borrow area.
- B. Excavated areas shall be continuously maintained such that the surface shall be smooth and have sufficient slope to allow water to drain from the surface.

EMBANKMENT

- A. General: Embankment shall be consist of a controlled fill constructed in areas indicated
- B. Materials
- (1) Physical Characteristics: Structural fill material shall consist of soils that conform to the following physical characteristics:

Sieve Size	Percent Passin			
(Square Openings)	<u>by Weight</u>			
3 inch	100			
no. 4	50-100			
no. 200	10-60			

The plasticity index of the material, as determined in accordance with ASTM D4318, shall not exceed 12.

The fill material shall be free from roots, grass, other vegetable matter, clay lumps, rocks larger than 3 inches, or other deleterious materials.

(2) Site Soils: Site soils from cuts may be used for fill, provided they meet the requirements in paragraph 5.B(1). The results of investigation indicate most of the near-surface native soils will meet these requirements; however, some blending may be necessary.

(3) Borrow: When the quantity of suitable material required for fill is not available within the limits of the jobsite, the contractor shall provide sufficient materials for fill to the lines, elevations, and cross-sections shown on the drawings from borrow areas. The contractor shall obtain from owners of said borrow areas the right to excavate material, shall pay all expenses in developing the source including the cost of right-of-way required for hauling the material.

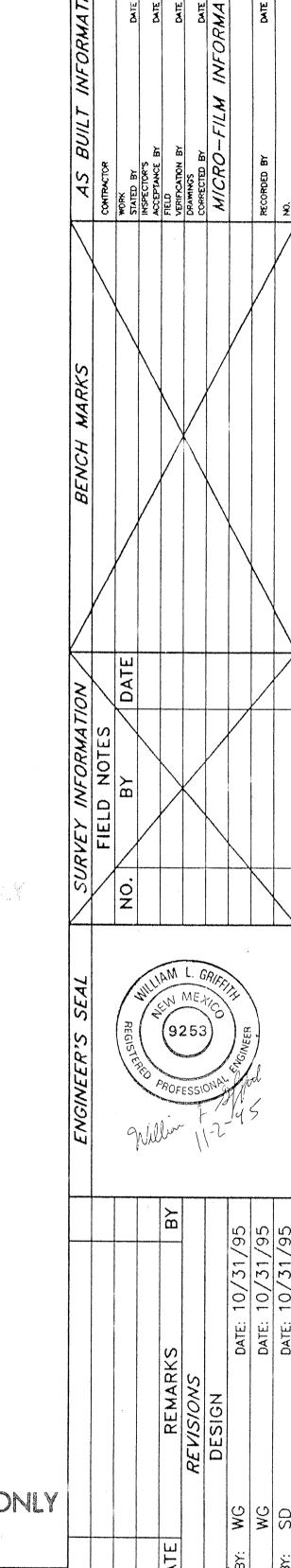
C. Construction:

- (1) Subgrade Treatment: Prior to placement of any fill or construction of foundations, the exposed ground surface shall be scarified to a minimum depth of 8 inches and watered as necessary to bring the upper 1.0 foot to within 2 percent of the optimum moisture content and compacted to to a minimum of 95 percent of ASTM D1557 maximum dry density.
- (2) Compaction: The fill shall be spread in layers not exceeding 8 inches, watered as necessary, and compacted. Moisture content at the time of compaction shall be within 2 percent of optimum moisture content. A density of not less than 95 percent of maximum dry density shall be obtained for the structural fill. Structural fill, as well as the native soils, outside the building pads shall be compacted to 90 percent of maximum dry density.

Optimum moisture content and maximum dry density for each soil type used shall be determined in accordance with ASTM D1557.

(3) Weather Limitations: Controlled fill shall not be constructed when the atmospheric temperature is below 35 degrees F. When the temperature falls below 35 degrees, it shall be the responsibility of the contractor to protect all areas of completed work against any detrimental effects of ground freezing by methods approved by the geotechnical engineer. Any areas that are damaged by freezing shall be reconditioned, reshaped, and compacted by the contractor in conformance with the requirements of this specification

- D. Slope Protection & Drainage: The edges of the controlled fill embankments shall be graded to the contours shown on the drawings and compacted to the density required in paragraph 5.C(2).
- 6. INSPECTION & TESTS
- A. Construction Observation & Testing: Testing will be done by the City of Albuquerque. Tests of fill materials and embankments will be made at the following suggested minimum rates:
- (1) One field density test at each foundation element.
- (2) One field density test for each 100 cubic yards of fill placed or each layer of fill for each work area, whichever is the greater number of tests.
- (3) One moisture-density curve for each type of material used, as indicated by sieve analysis and plasticity index.



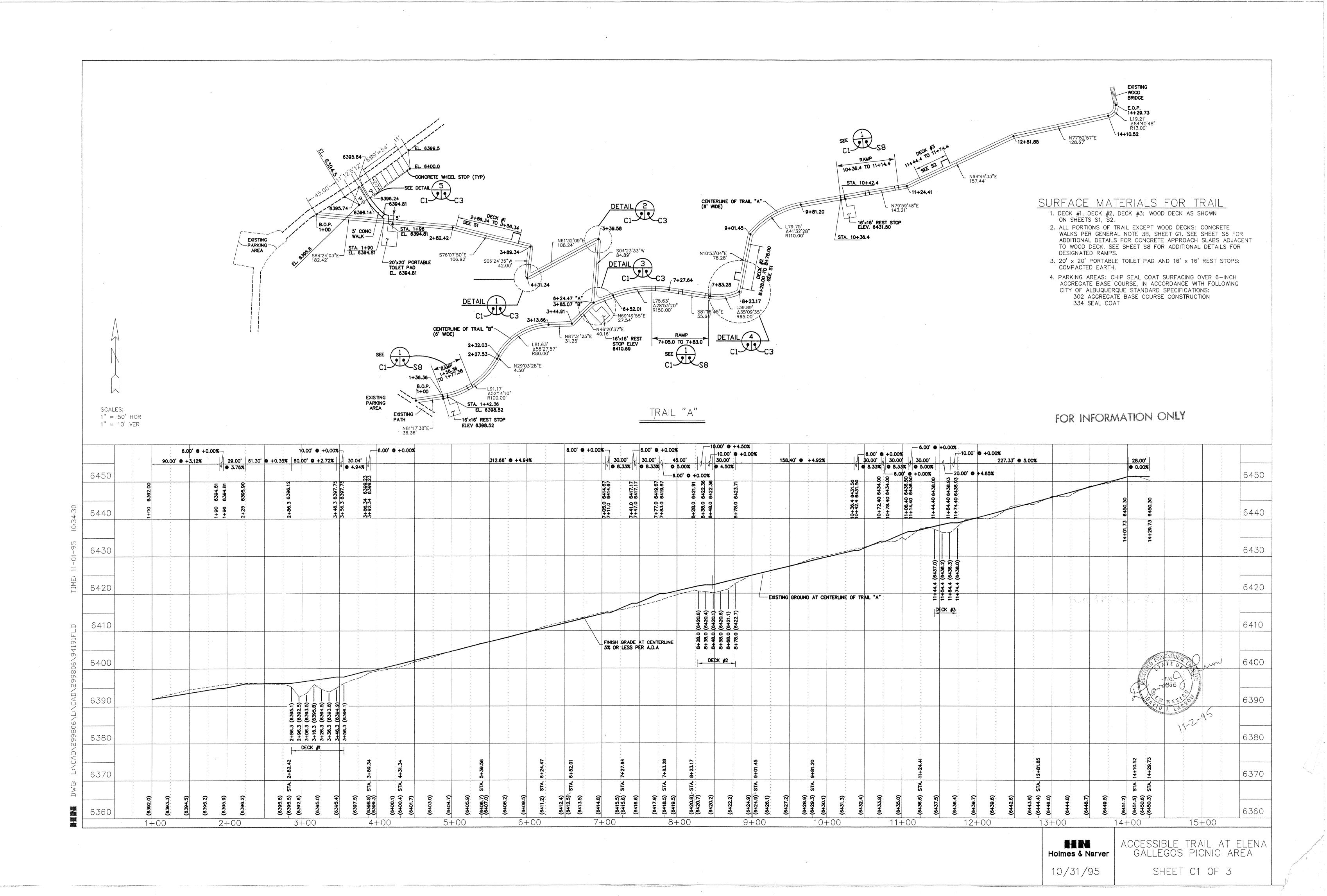
FOR INFORMATION ONLY

Holmes & Narver CITY OF ALBUQUERQUE OPEN SPACE DIVISION

TITLE:

PARKS & GENERAL SERVICES DEPARTMENT ACCESSIBLE TRAIL AT ELENA GALLEGOS PICNIC AREA GENERAL NOTES

DATE APPROVALS ENGINEER DATE APPROVALS ENGINEER DRC CHAIRMAN WASTE WATER TRANSPORTATION HYDROLOGY PARKS & REC DRAWING SHEET OF 5116.91 G1



SCALES: 1" = 50' HOR 1" = 10' VER NOTE: FOR TRAIL PLAN SEE SHEET C1 6450 6450 -6.00' ● 0.00% **┌13.75' ● 0.00% ├**5.00' **9** 0.00% 36.36' | 30.00' | 4 + 5.00% | 4 + 8.33% | 193.96' 4+4.99% 6440 6440 6430 6430 6420 6420 FOR INFORMATION ONLY 6410 6410 -EXISTING GROUND AT CENTERLINE OF TRAIL "B" 6400 6400 6400 FINISH GRADE AT CENTERLINE 5% OR LESS PER A.D.A 6390 6390 6390 6380 6370 6370 6360 6360 5+00 6+00 7+00 8+00 1+00 3+00 10+00 11+00 2+00 4+00 9+00 12+00 13+00 14+00 15+00 ACCESSIBLE TRAIL AT ELENA GALLEGOS PICNIC AREA Holmes & Narver

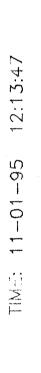
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SHEET C2 OF 3

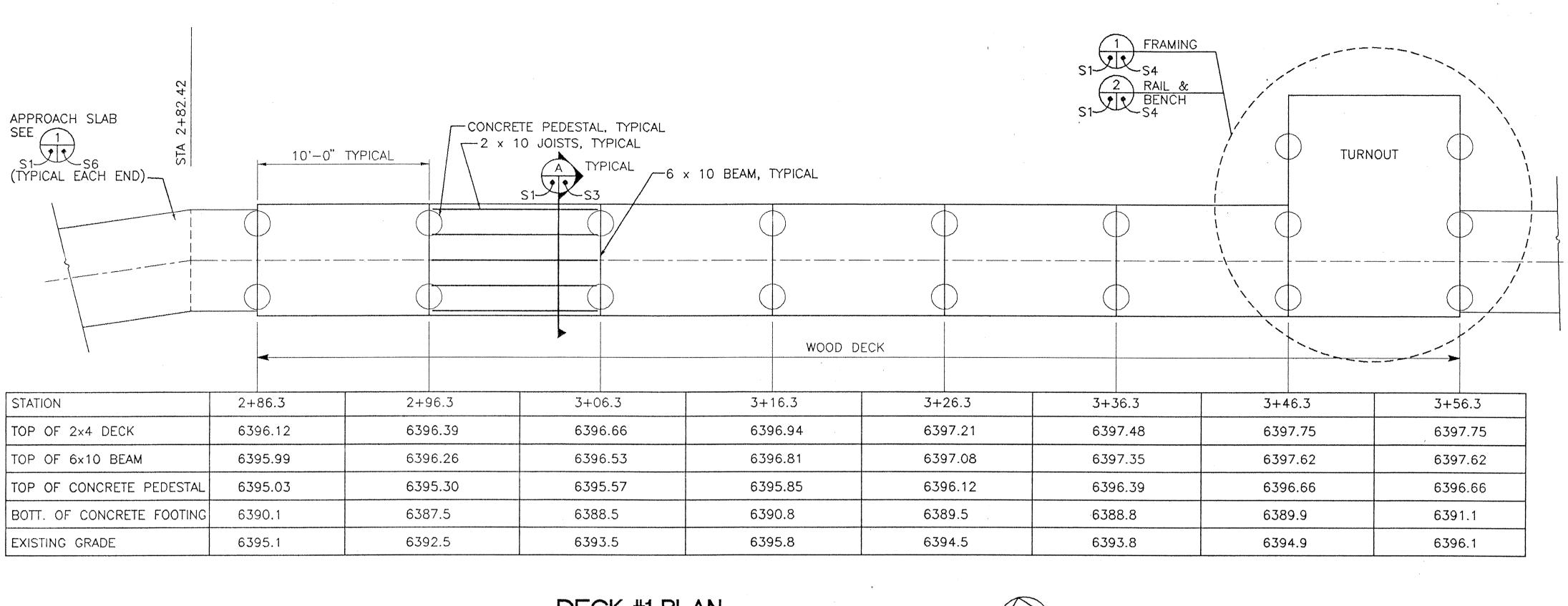
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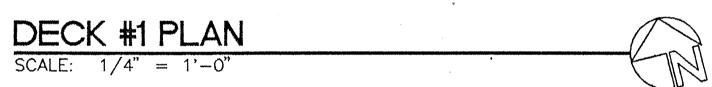
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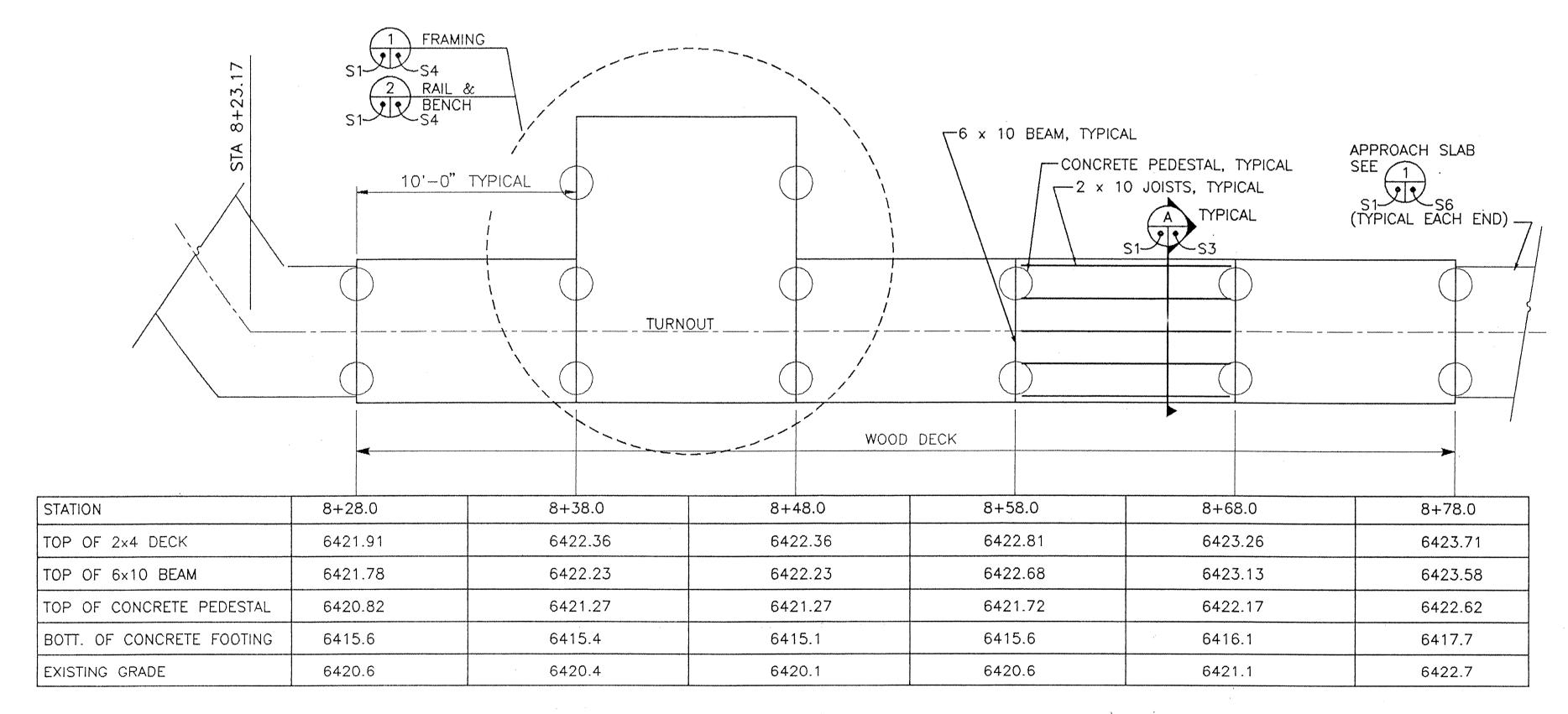
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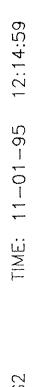
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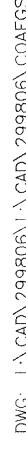
DECK #2 PLAN SCALE: 1/4" = 1'-0"

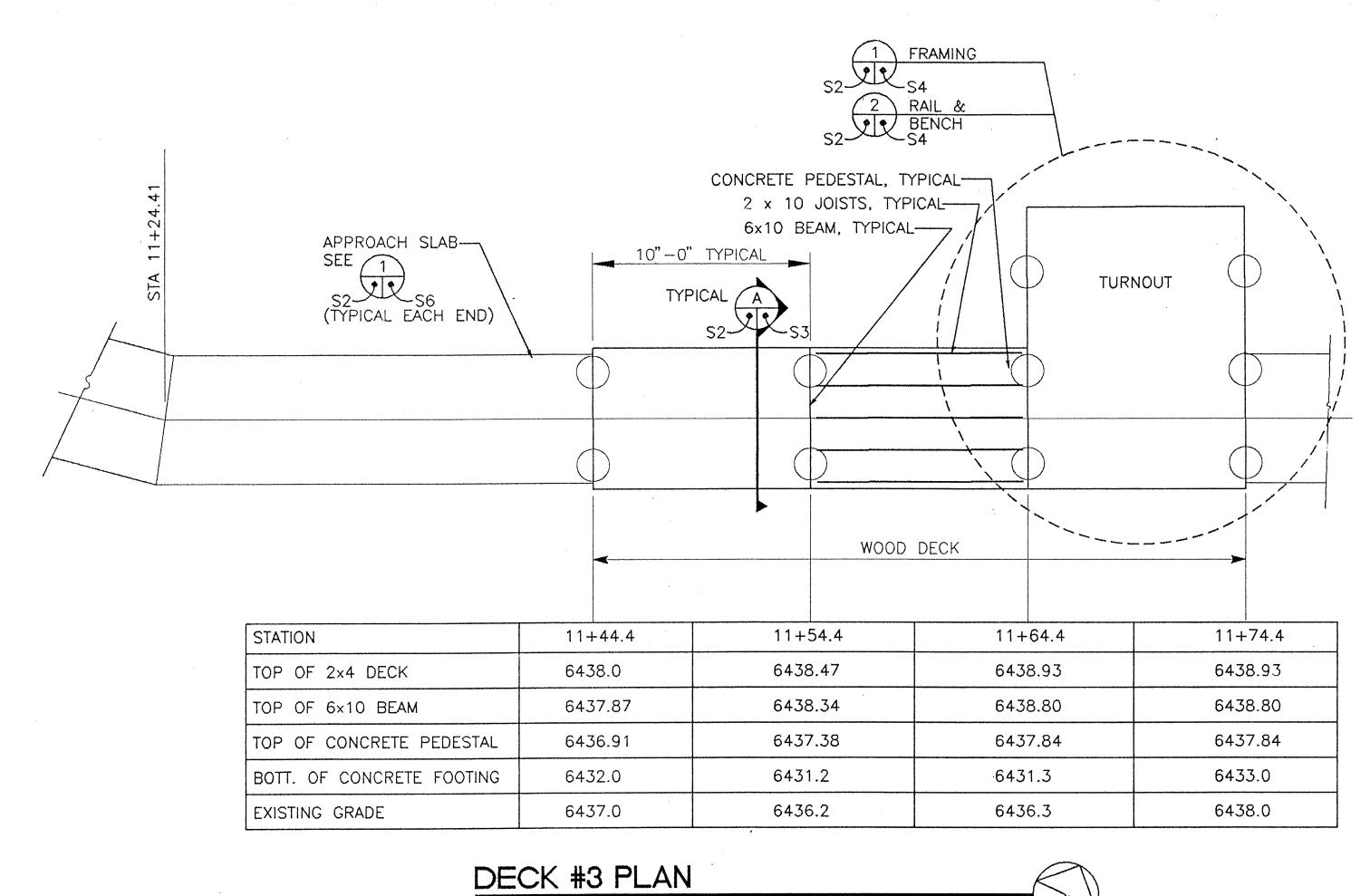
Holmes & Narver

CITY OF ALBUQUERQUE
OPEN SPACE DIVISION
PARKS & GENERAL SERVICES DEPARTMENT

TITLE: ACCESSIBLE TRAIL AT ELENA GALLEGOS PICNIC AREA DECK PLANS 1 AND 2								
APPROVALS	ENGINEER	DATE	APPROVALS	S ENGINEER	DATE			
DRC CHAIRMAN			WATER					
TRANSPORTATION			WASTE WATER	₹				
HYDROLOGY								
PARKS & REC								
DRAWING NO. 5	116.91	MAI	P NO. D24	SHEET OF S1	8			



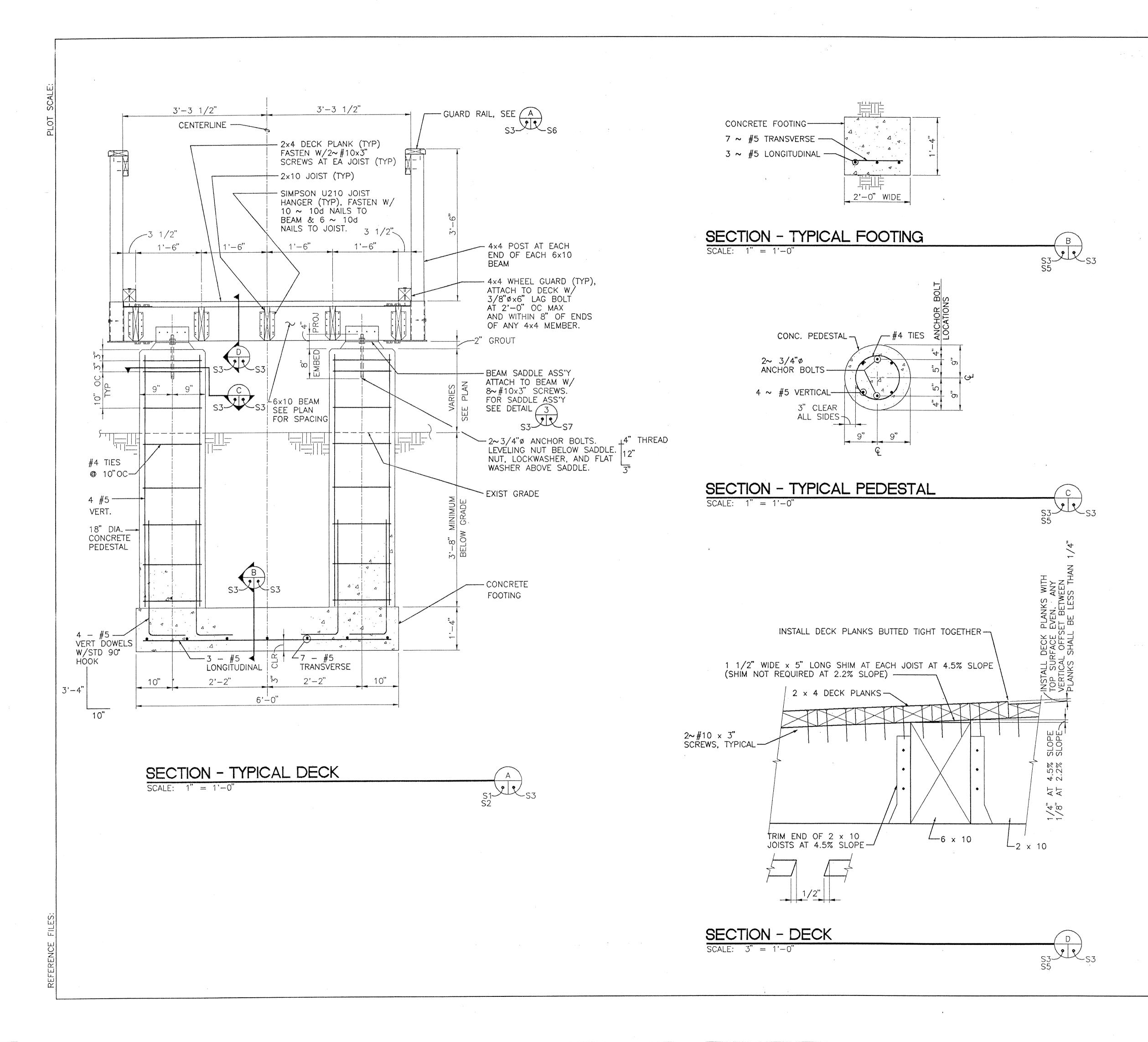




SCALE: 1/4" = 1'-0"

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OPEN SPACE DIVISION
PARKS & GENERAL SERVICES DEPARTMENT ACCESSIBLE TRAIL AT ELENA GALLEGOS PICNIC AREA DECK PLAN 3 TITLE:

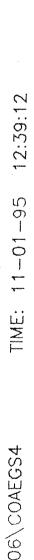
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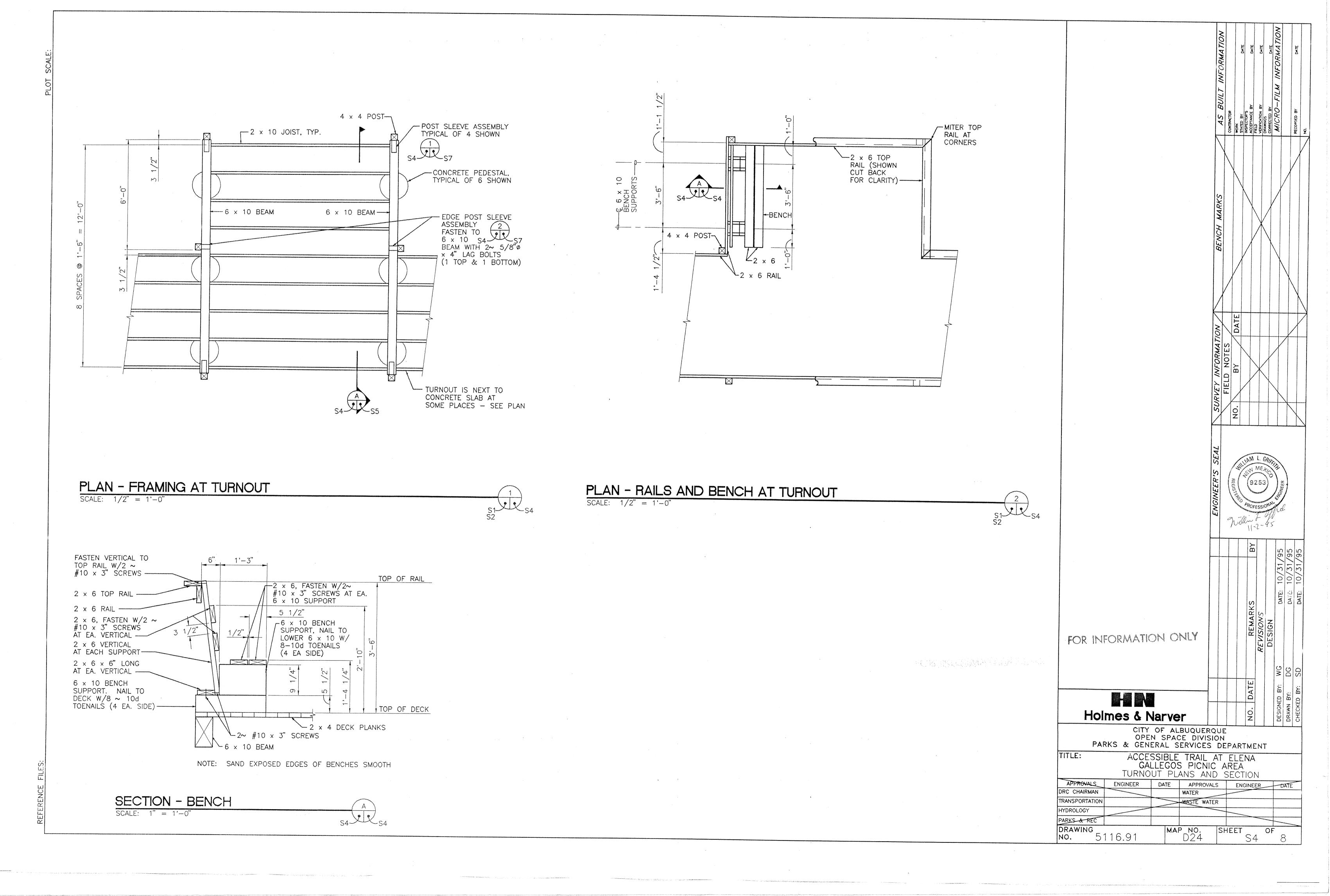


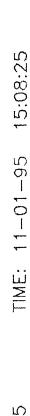
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DATE FOR INFORMATION ONLY Holmes & Narver CITY OF ALBUQUERQUE
OPEN SPACE DIVISION
PARKS & GENERAL SERVICES DEPARTMENT ACCESSIBLE TRAIL AT ELENA
GALLEGOS PICNIC AREA
WOOD DECK SECTIONS TITLE: DATE APPROVALS APPROVALS ENGINEER ENGINEER DATE DRC CHAIRMAN WASTE WATER TRANSPORTATION HYDROLOGY PARKS & REC DRAWING MAP NO. D24 SHEET 5116.91

TIME: 11-01-95 1

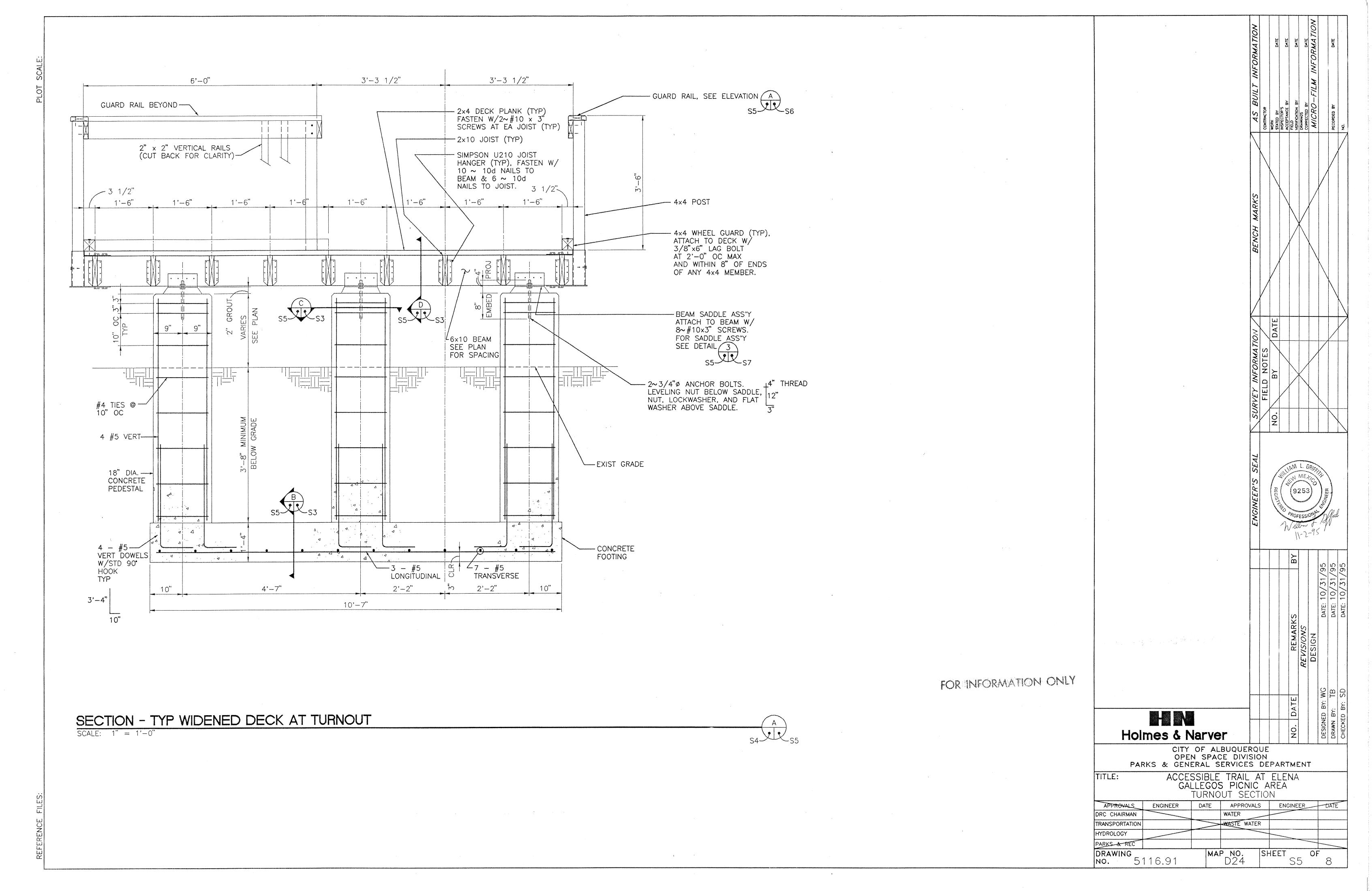
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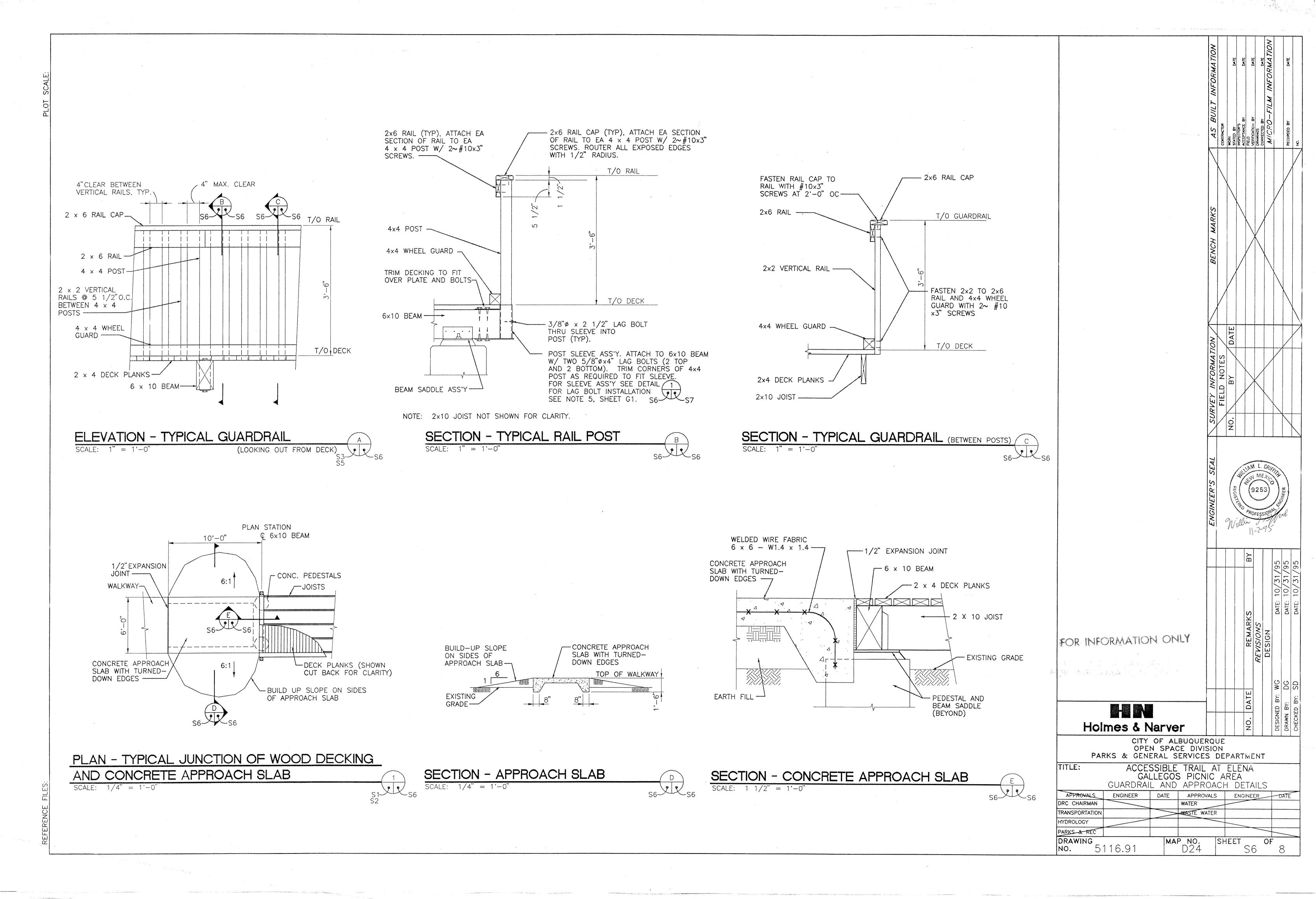












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