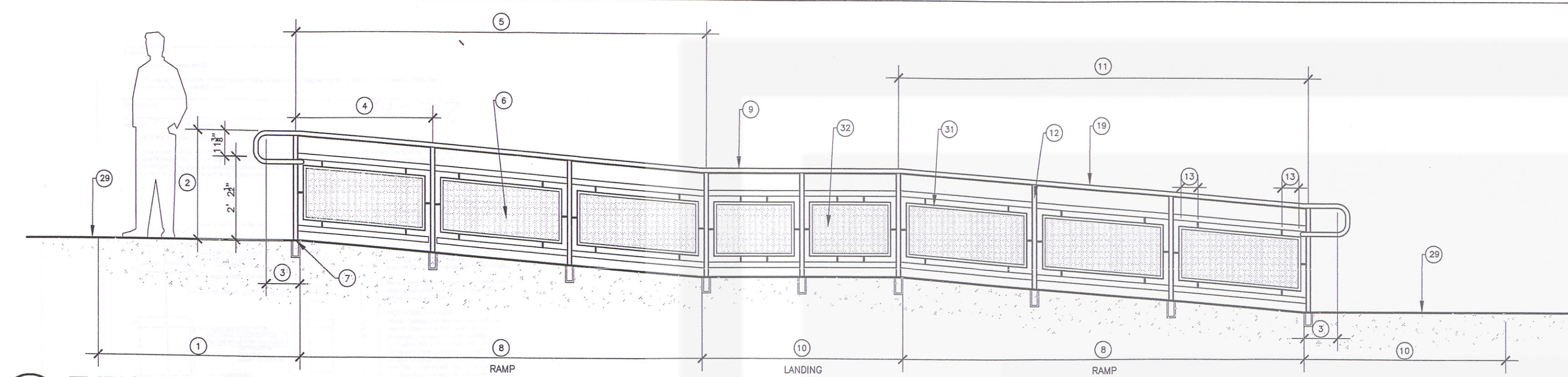
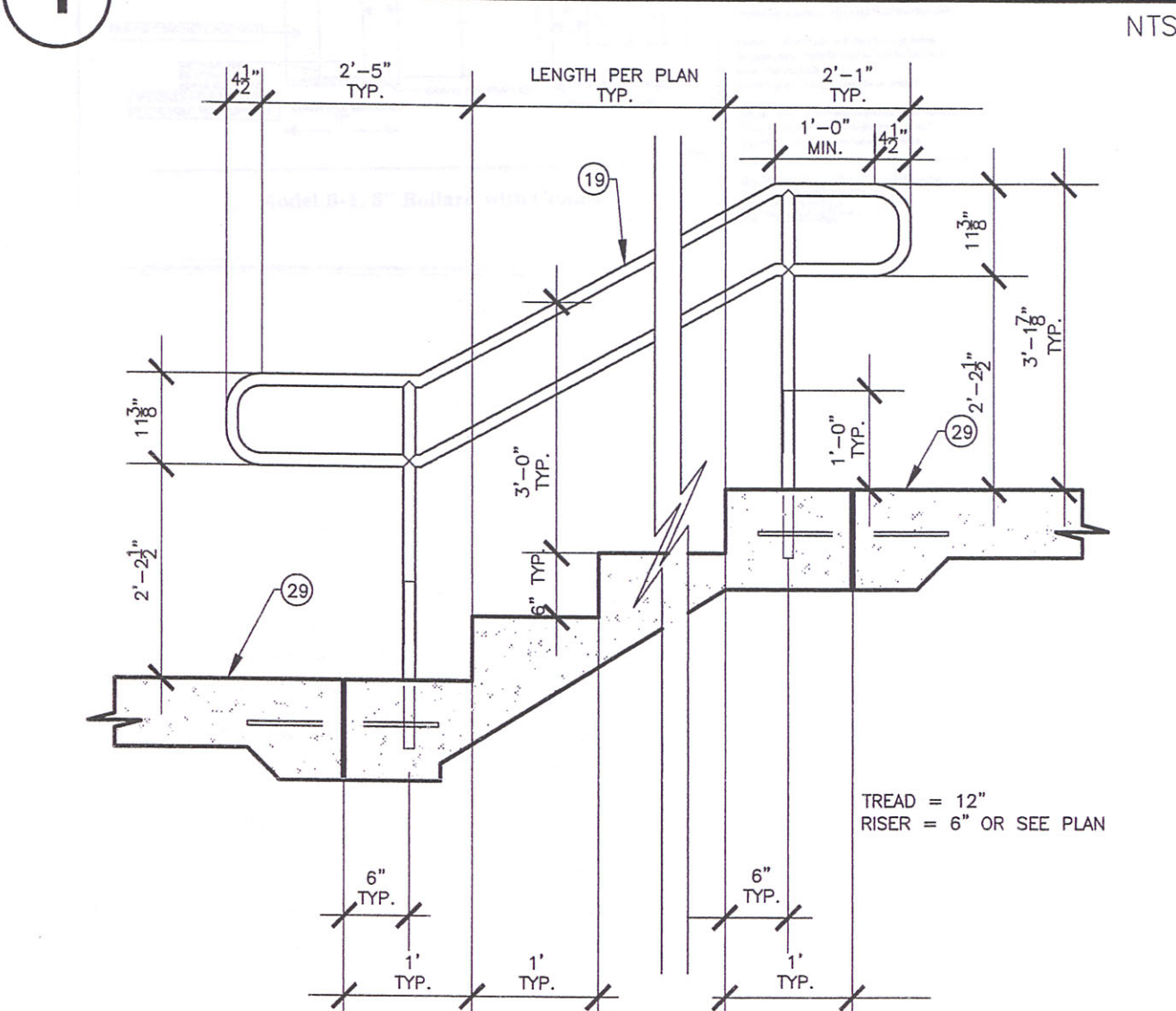
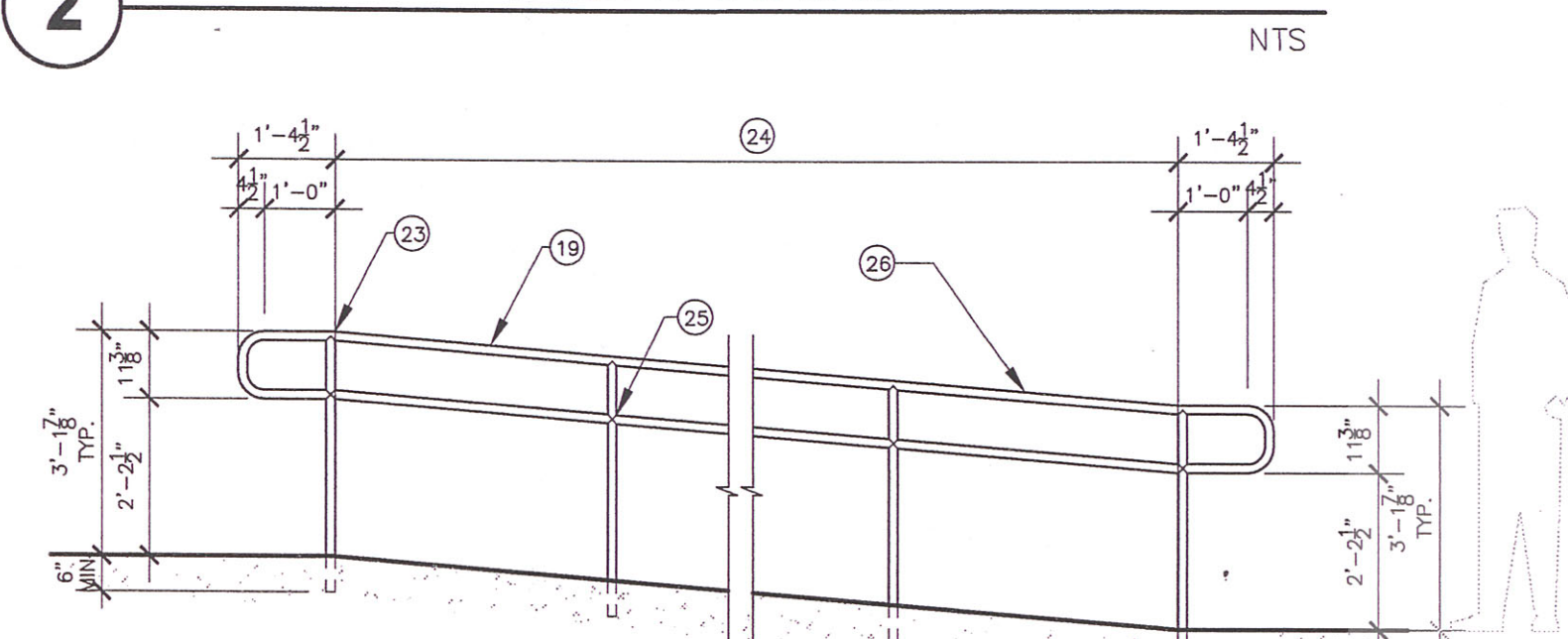




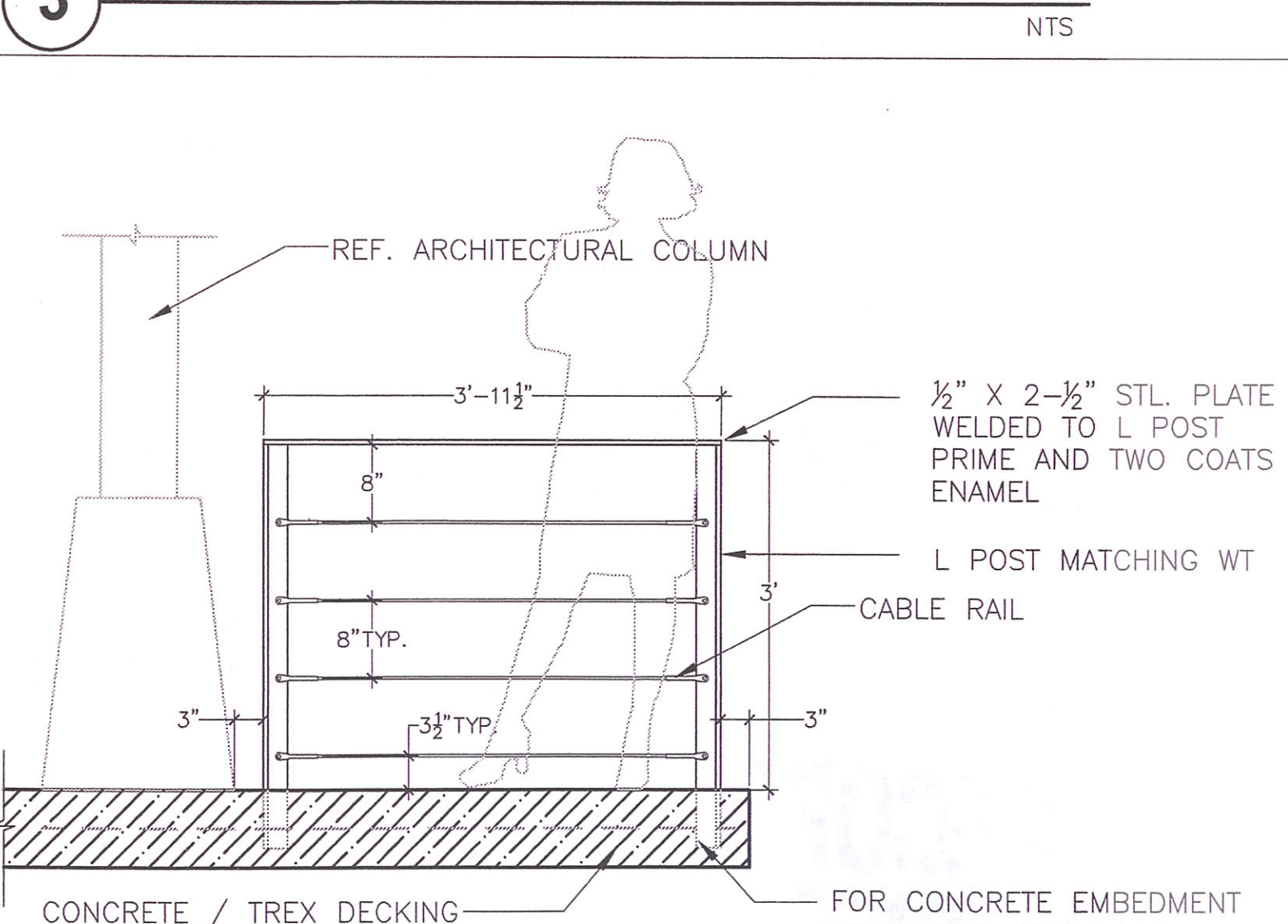
1 TYPICAL RAMP AND GUARDRAIL DETAIL



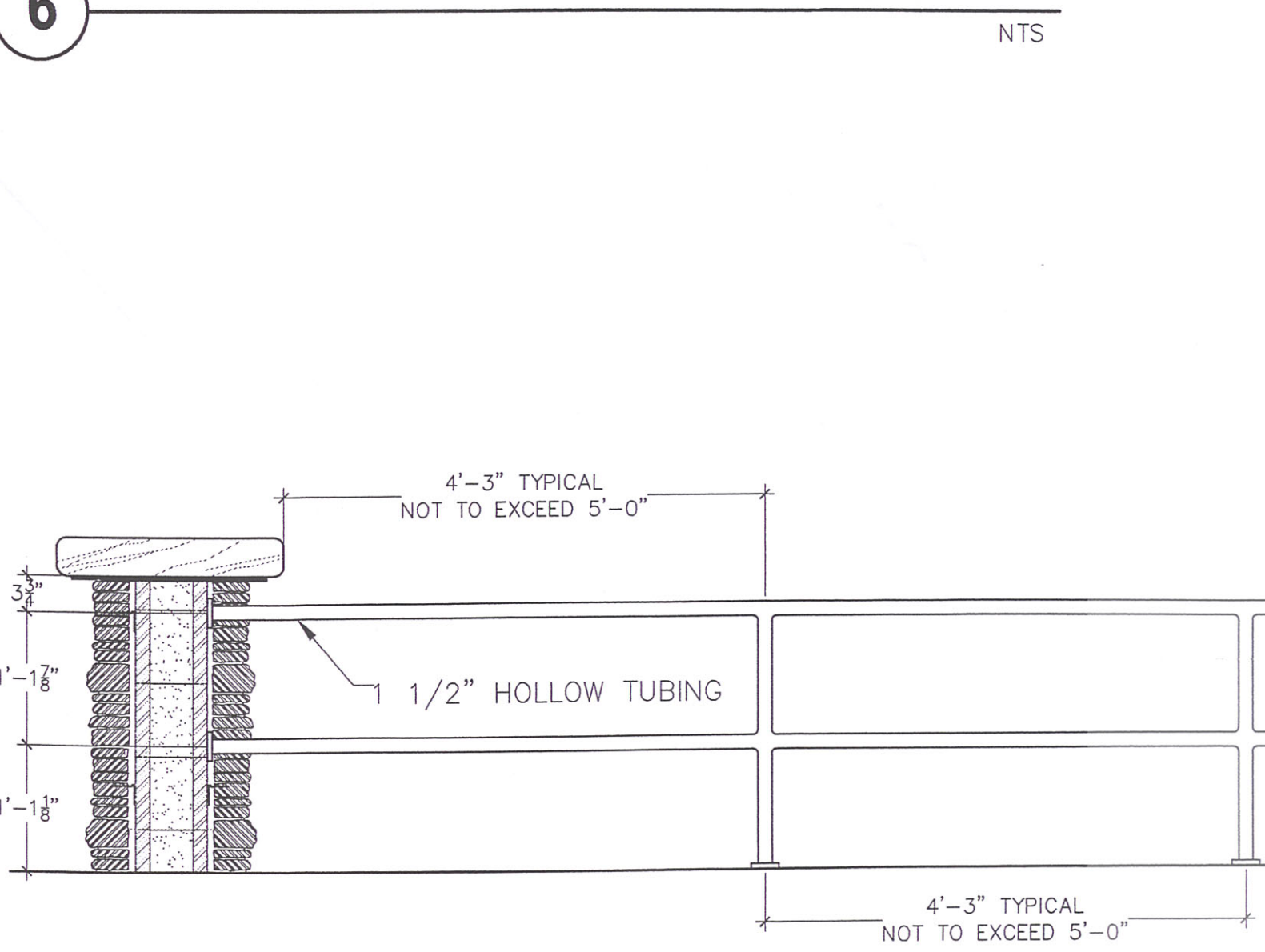
2 HANDRAIL DETAIL AT STAIRS



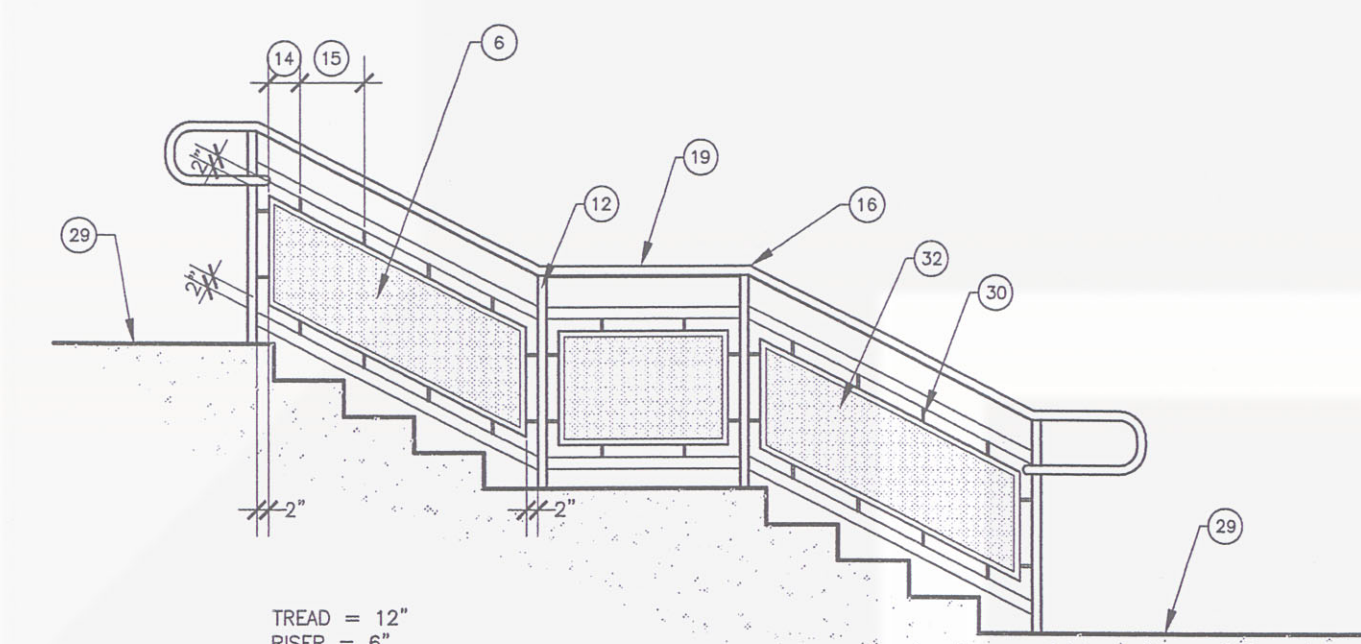
3 HANDRAIL DETAIL AT RAMP



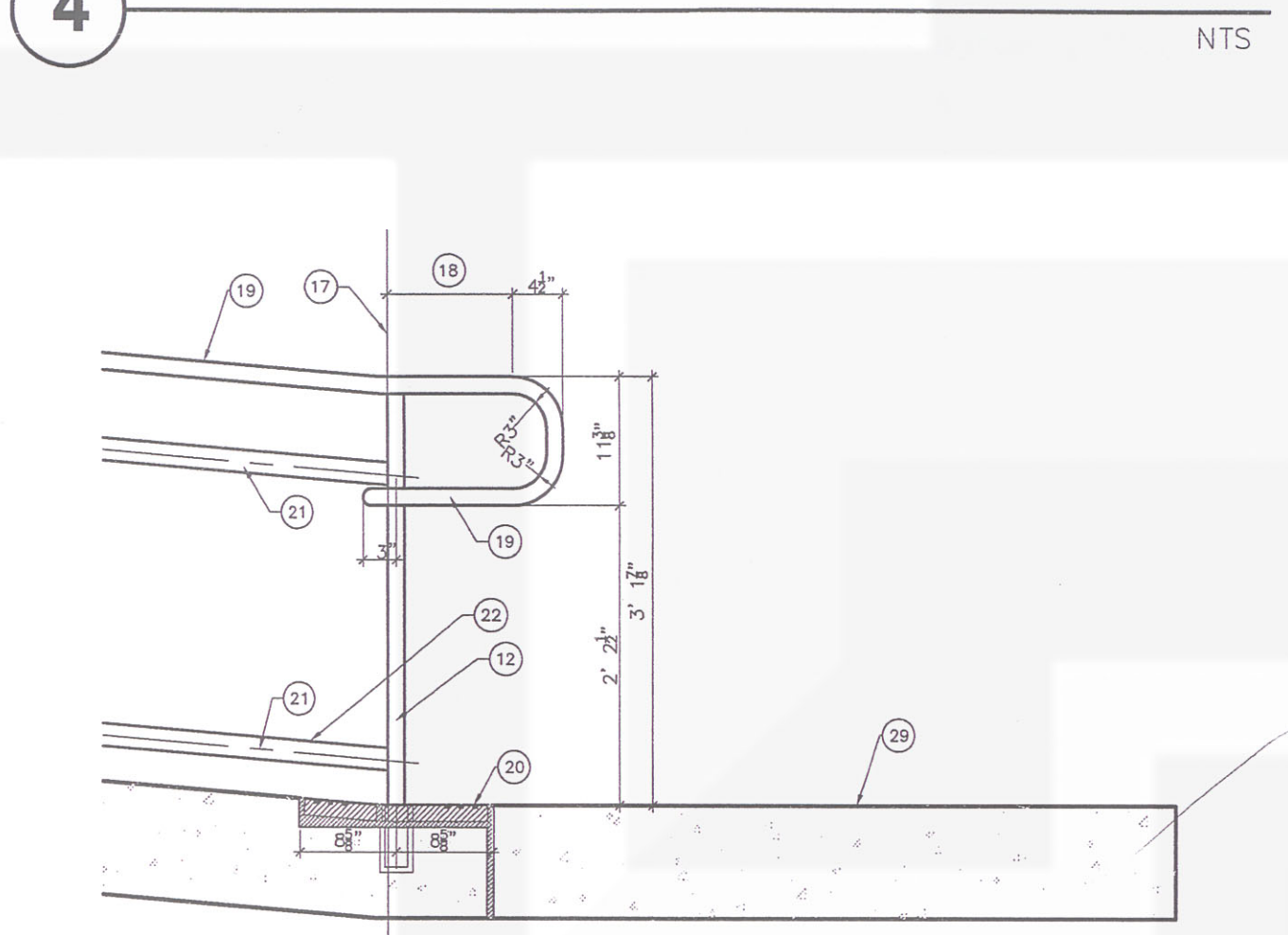
6 TYPICAL CABLE RAIL BARRIER END



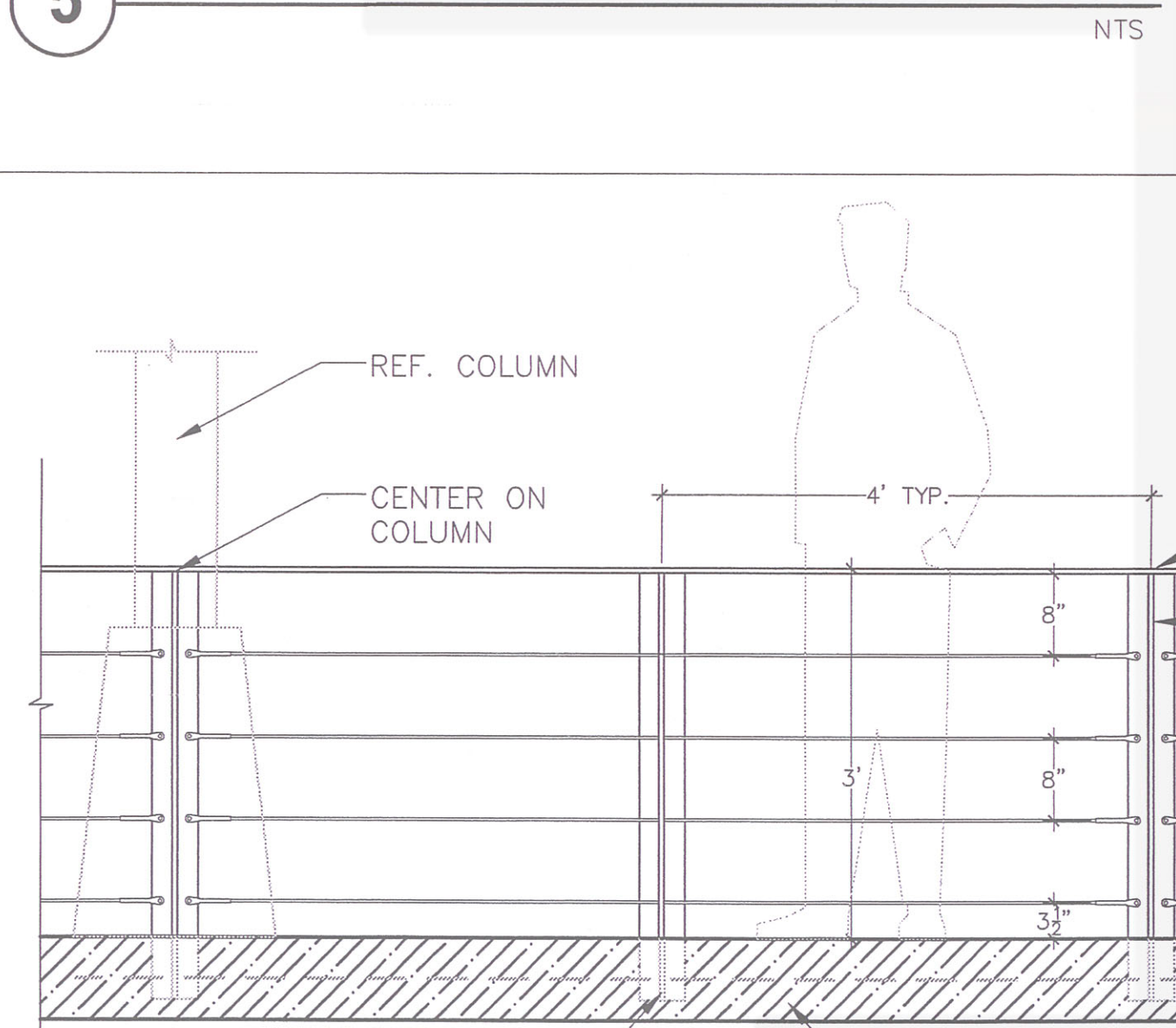
11 LOW COLUMN RAILING DETAIL



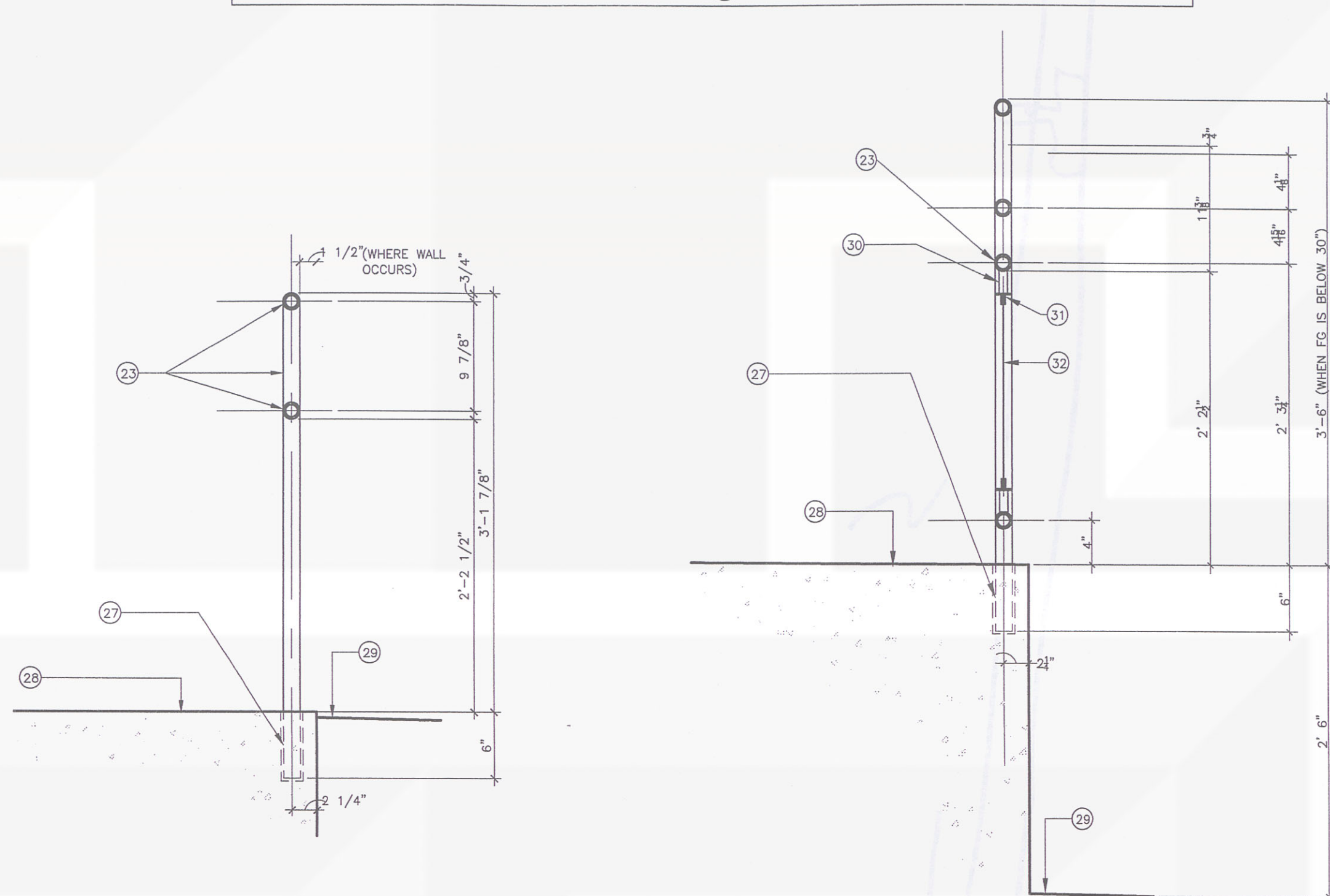
4 TYPICAL GAURDRAIL PANEL LAYOUT



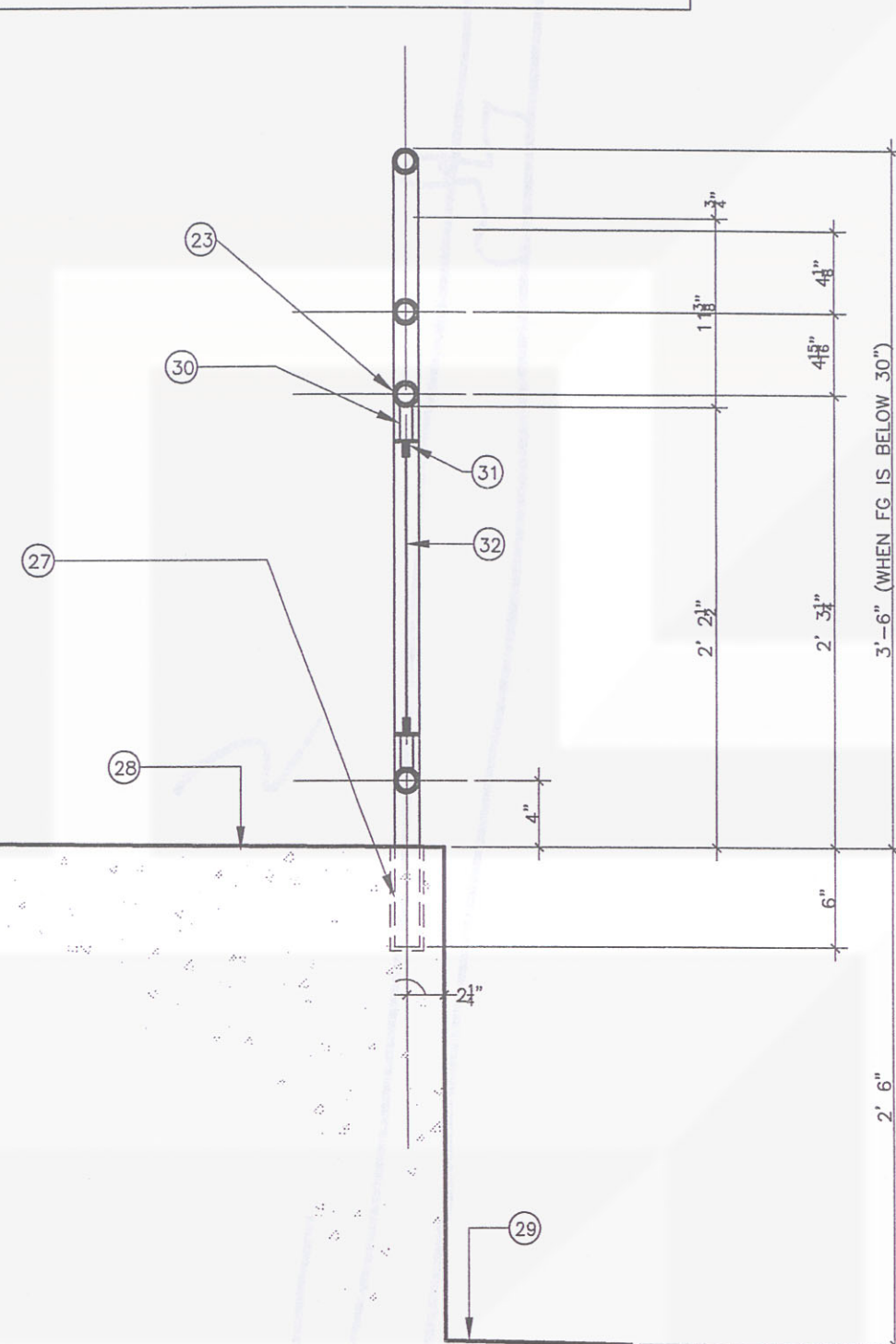
5 HANDRAIL OVERHANG DETAIL



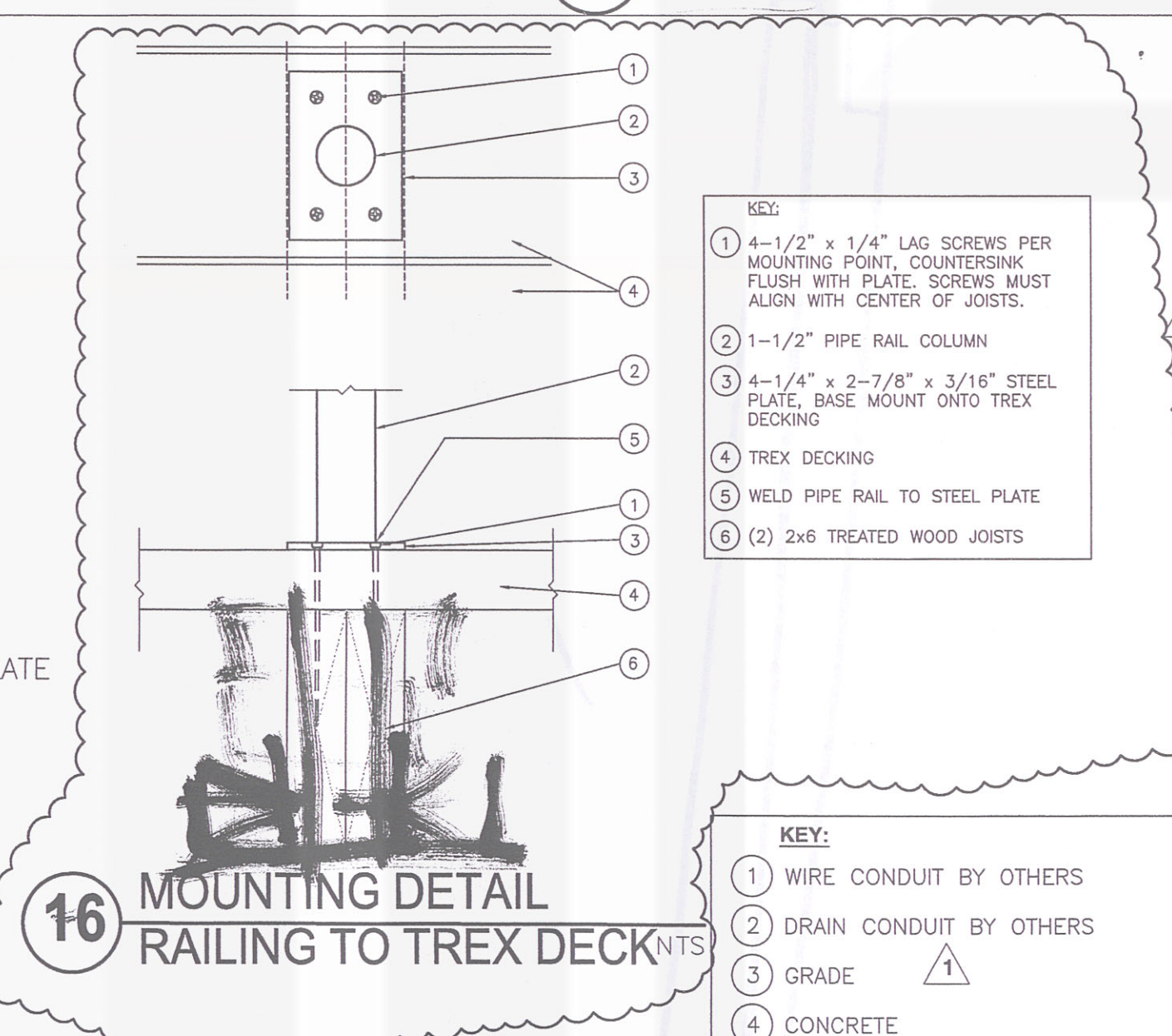
7 TYPICAL CABLE RAIL BARRIER SECTION



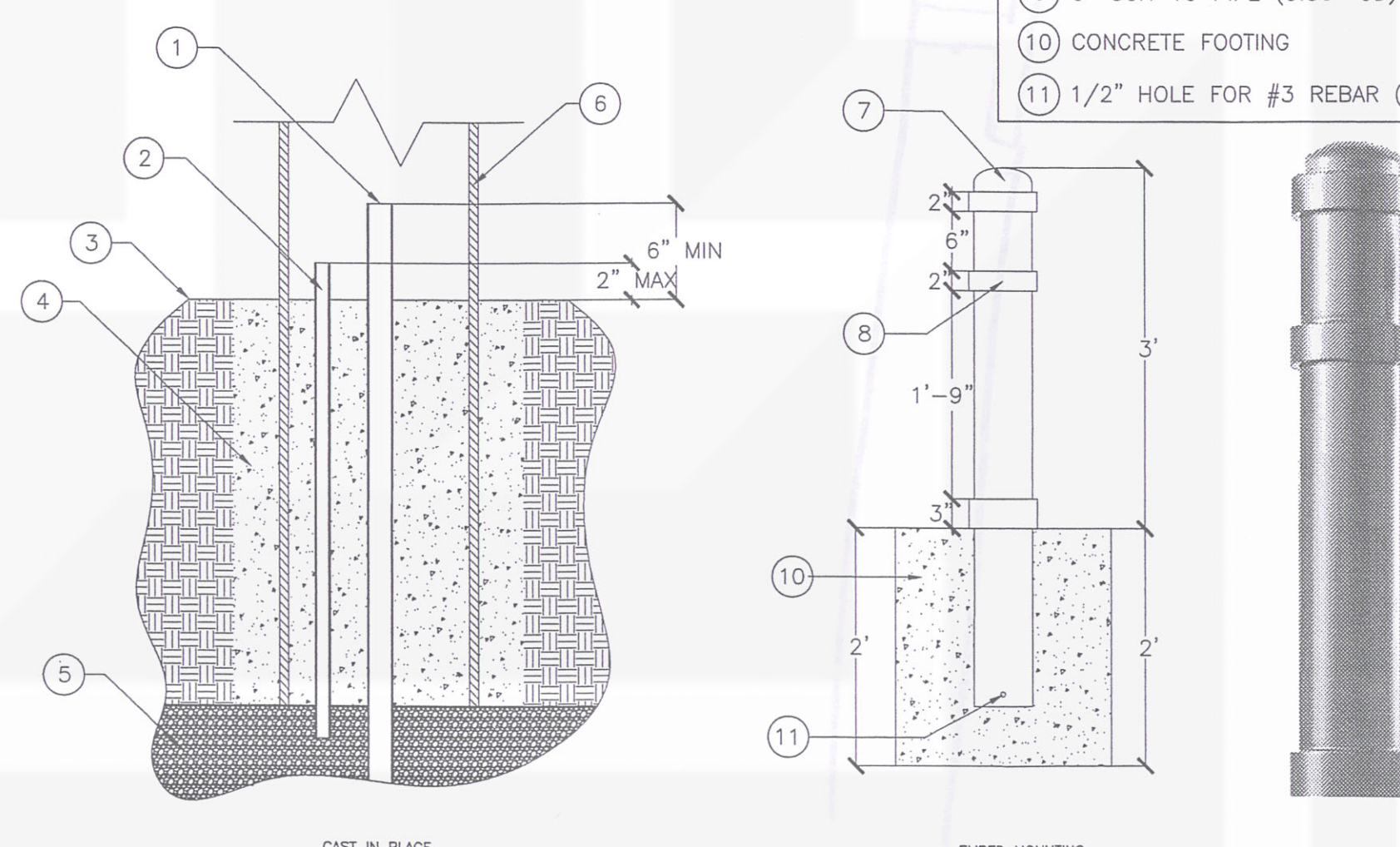
8 HANDRAIL FIXING DETAIL



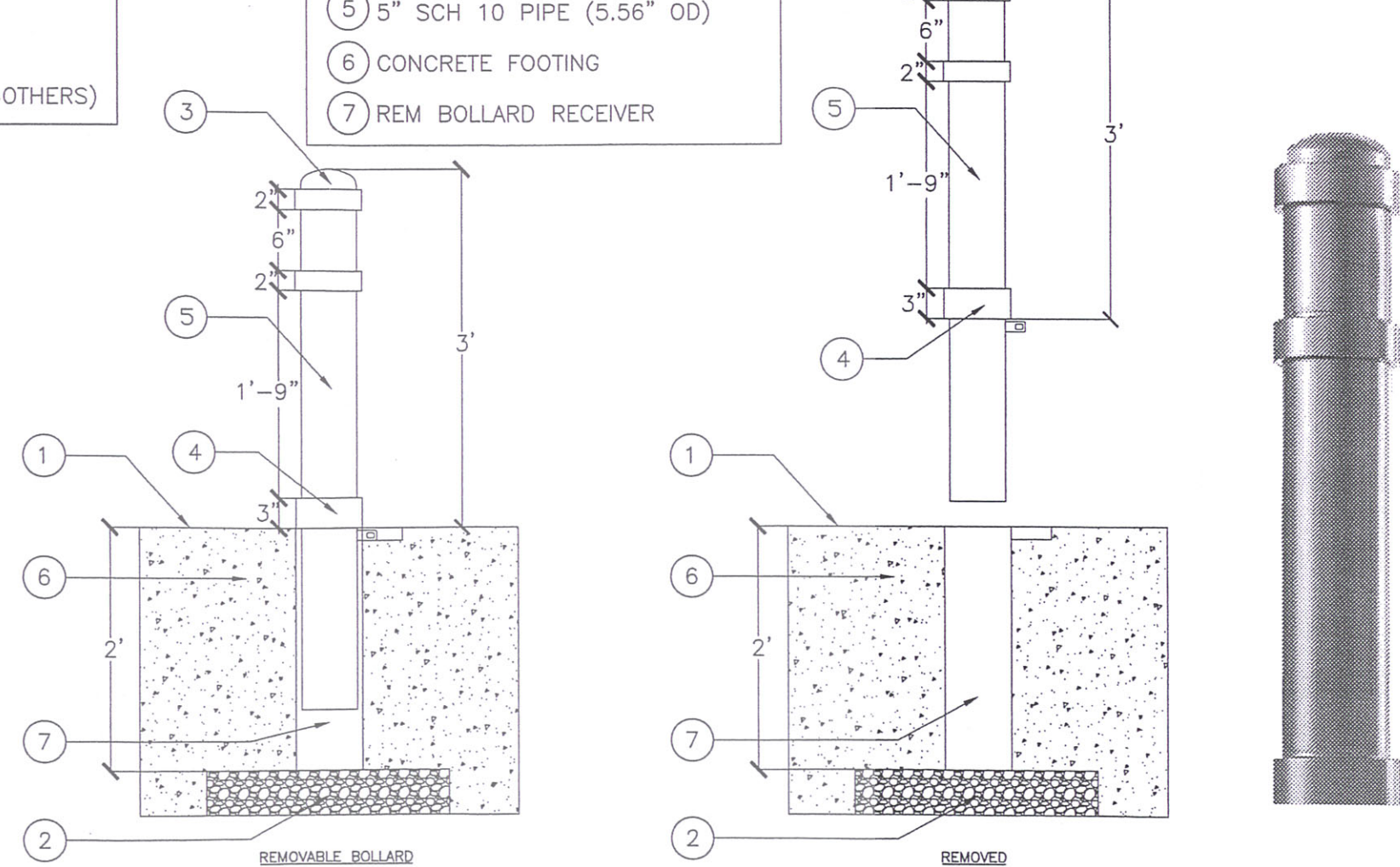
9 GUARDRAIL DETAIL AT RAMP



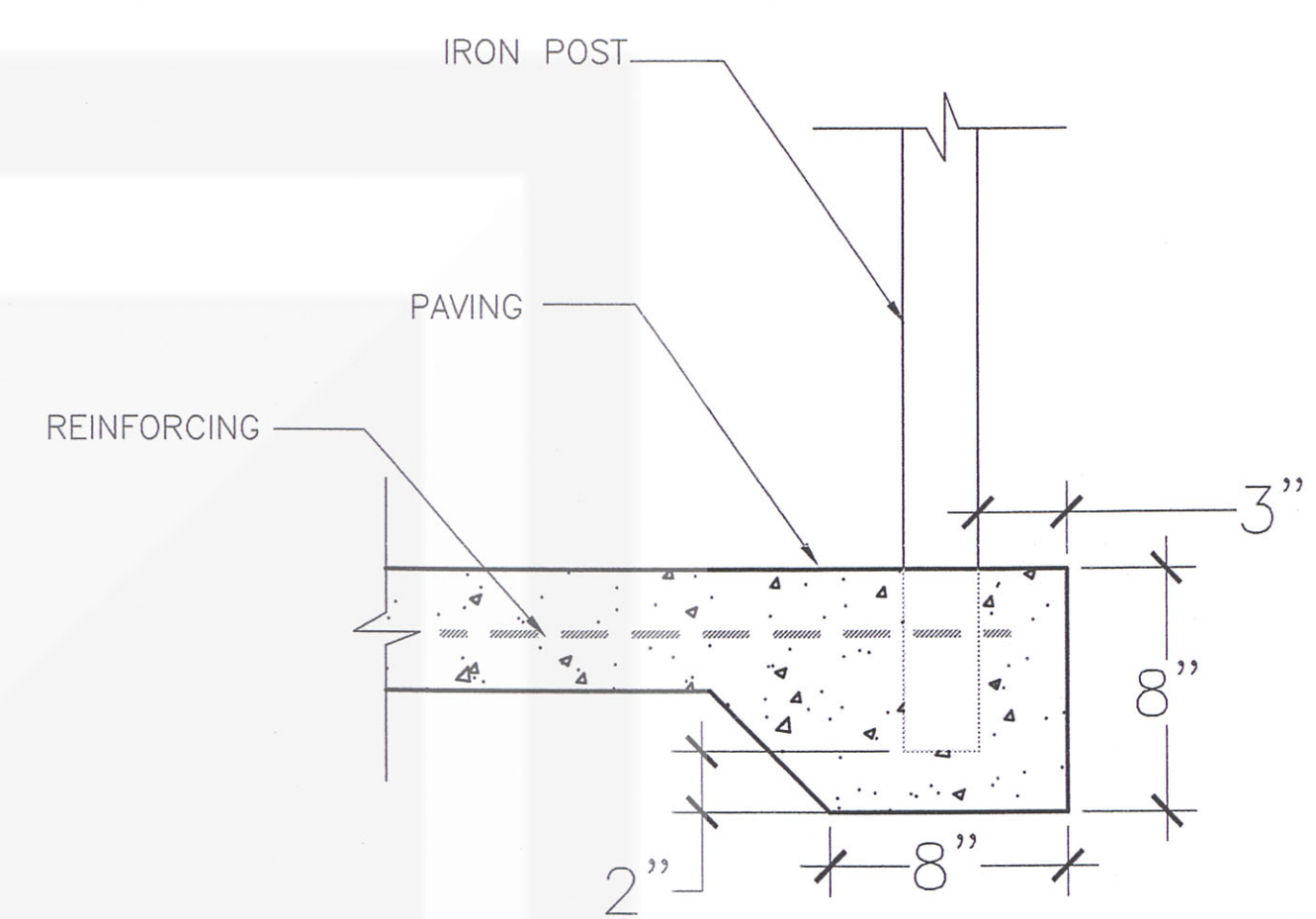
16 MOUNTING DETAIL RAILING TO TREX DECK



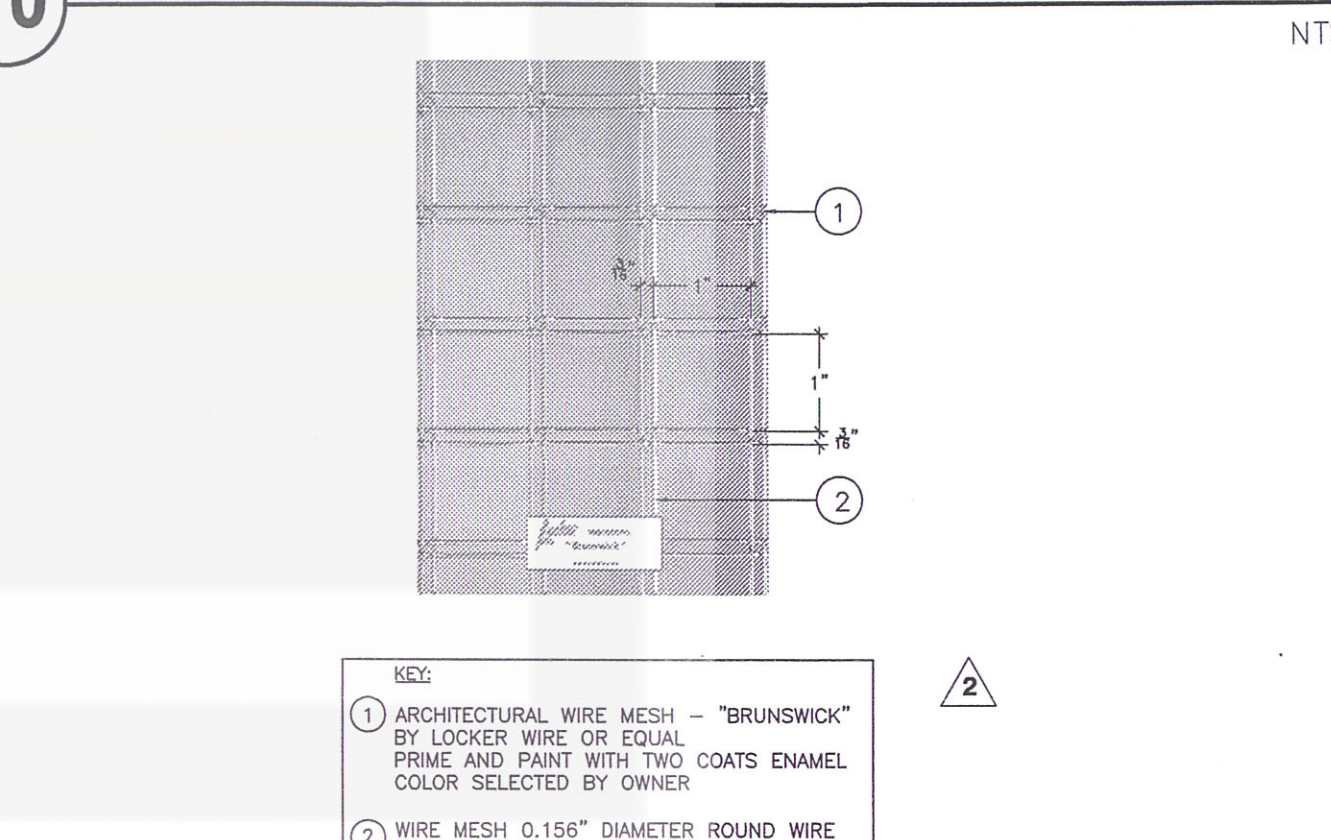
14 CLASSIC BOLLARD - EMBEDDED



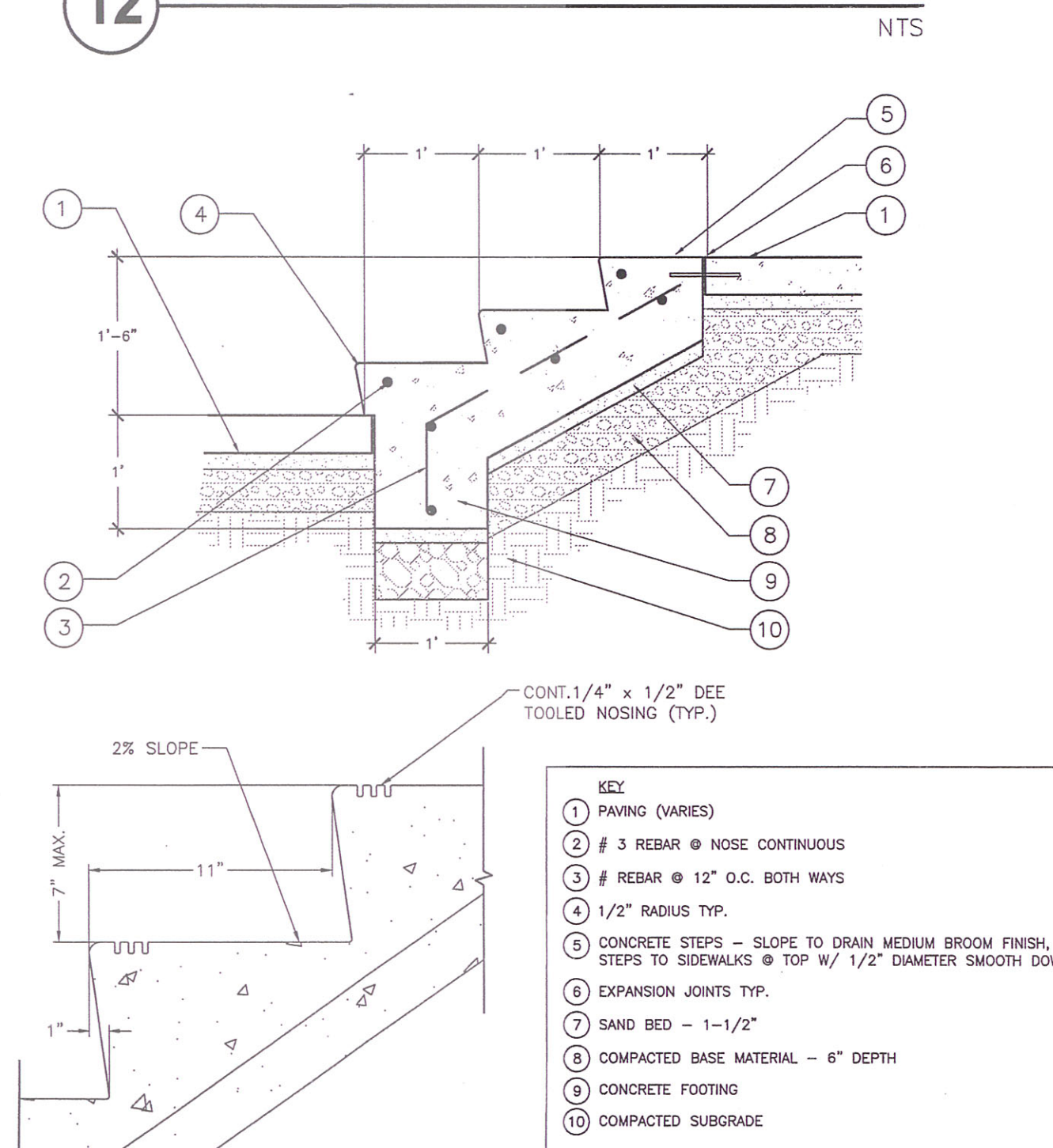
15 CLASSIC BOLLARD - REMOVABLE



10 TYPICAL CABLE RAIL BARRIER EMBEDMENT



12 WIRE MESH FOR GUARDRAIL



13 CONCRETE STEPS DETAIL

- KEY:
- 1 LEVEL LANDING 6' MIN.
 - 2 3' 7/8" CONTINUOUS
 - 3 1" MIN PER A.D.A.
 - 4 MAXIMUM SPACE BETWEEN POSTS: 5' UNLESS OTHERWISE SPECIFIED
 - 5 LENGTH OF RAMP PER PLAN 30' MAX. RUN BETWEEN LANDINGS
 - 6 WHEN GUARDRAILS ARE NECESSARY UTILIZE GUARD PANELS AS SHOWN
 - 7 HANDRAIL POSTS SIT ON LANDING
 - 8 RAMP
 - 9 3' 6" MIN. HEIGHT AT LANDING WHEN GUARDRAILS ARE REQUIRED
 - 10 LEVEL LANDING 6' MIN.
 - 11 DIVIDE RUN INTO EQUAL SEGMENTS
 - 12 1/2" STEEL PIPE TYP.
 - 13 9" MAX., 6' MIN.
 - 14 6" MAX TYP.
 - 15 12" MAX TYP.
 - 16 ALIGN END WITH RISER FACE
 - 17 RAMP AND HANDRAIL BREAKING LINE
 - 18 1" PER A.D.A. TOP & BOTTOM
 - 19 1 1/2" DIA. HANDRAIL
 - 20 1 1/2" DIA. STD. STEEL PIPE HANDRAIL AND POSTS
 - 21 SAW CUTS, 8" DEEP, 1 1/2" O.C.
 - 22 CENTER LINE
 - 23 1/2" STEEL PIPE
 - 24 1 1/2" DIA. PTD. STD. STEEL PIPE HANDRAIL AND POSTS
 - 25 LENGTH PER PLAN TYP.
 - 26 POSTS AT 5' O.C. MAX.
 - 27 WELD AND GRIND ALL CONNECTIONS
 - 28 1 1/2" DIA. PTD. STD. STEEL PIPE POST SET IN EPOXY
 - 29 CONC. RAMP - SLOPE TO DRAIN AWAY FROM BLDG. - SEE STRUCT.
 - 30 FINISH GRADE
 - 31 3/4" STEEL ROD
 - 32 PAIR OF 1" X 1/2" STL. ANGLES
 - 33 WIRE MESH

- KEY:
- 1 ARCHITECTURAL WIRE MESH - "BRUNSWICK" BY LOCKER WIRE OR EQUAL PRIME AND PAINT WITH TWO COATS ENAMEL COLOR SELECTED BY OWNER
 - 2 WIRE MESH 0.156" DIAMETER ROUND WIRE

- KEY:
- 1 4-1/2" x 1/4" LAG SCREWS PER MOUNTING POINT, COUNTERSINK FLUSH WITH PLATE. SCREWS MUST ALIGN WITH CENTER OF JOISTS.
 - 2 1-1/2" PIPE RAIL COLUMN
 - 3 4-1/4" x 2-7/8" x 3/16" STEEL PLATE, BASE MOUNT ONTO TREX DECKING
 - 4 TREX DECKING
 - 5 WELD PIPE RAIL TO STEEL PLATE
 - 6 (2) 2x6 TREATED WOOD JOISTS

- KEY:
- 1 FINISH GRADE
 - 2 GRAVEL FOR DRAINAGE
 - 3 SCH 40 STEEL CAP
 - 4 DECORATIVE COLLARS (6.62" OD)
 - 5 5" SCH 10 PIPE (5.56" OD)
 - 6 CONCRETE FOOTING
 - 7 REM BOLLARD RECEIVER

RECEIVED
DEC 16 2006
BY #302
BECK - AUSTIN

DELTA	DATE	DESCRIPTION
1	04/24/06	ADDED REMOVABLE AND EMBEDDED BOLLARDS
2	08/27/06	WIRE MESH GAUGE CHANGE
3	11/13/06	ADDED MOUNTING DETAIL FOR RAILING TREX DECK

A JOINT VENTURE OF:

SIMON

ENDEAVOR

REAL ESTATE GROUP

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09/27/06

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SHEET TITLE:
HARDSCAPE DETAILS

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