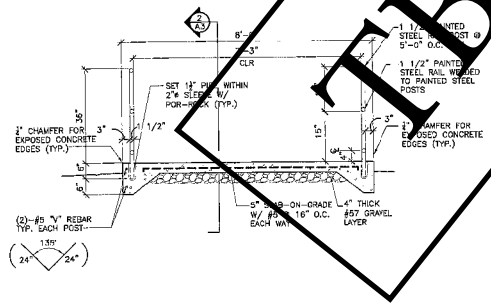


Typical Ramp Section



Cross Section Through Ramp

**GENERAL NOTES**

**DESIGN LOADS:**  
CODE: 2003 IBC

**EXISTING CONDITIONS:**  
Contractor shall field verify the accuracy of existing conditions shown and shall notify the Owner of any discrepancies discovered prior to fabrication or installation of new work.

**SHOP DRAWINGS:**  
Submit six (6) sets of shop drawings of handrail to the engineer for review and approval prior to construction.

**CONCRETE:**  
All concrete work shall be furnished and installed in accordance with the American Concrete Institute's ACI-318 and 301, latest edition, and the Concrete Reinforcing Steel Institute's Design Handbook standards. Foundation concrete shall have a minimum 28-day compressive strength of 3,000 PSI. Sub-on-grade and fit-work exposed to the weather shall have a minimum 28-day compressive strength of 4,000 PSI. Minimum concrete cover over reinforcing steel shall be as follows:  
3" for bottom surfaces poured on the ground;  
2" for formed surfaces in contact with the ground or exposed to weather;  
1-1/2" for all other surfaces.  
Use air-entering admixture in all concrete, providing 6% entrained total air content, plus or minus 1%, for concrete exposed to freezing and thawing, and from 2% to 4% for other concrete.  
Concrete slab-on-grade shall be 5" min. concrete with #5 rebars at 16" O.C. each way, an 4" thick #57 Gravel layer, over firm insitu soil or compacted backfill.

**REINFORCING STEEL:**  
Reinforcing steel bars shall conform to ASTM A 615 grade 60.

**STEEL HANDRAILS:**  
Handrails shall be continuous 1 1/2" schedule 40 steel pipe, capped with a rounded end cap. Prime and apply two coats enamel semi-gloss paint to handrails after fabrication. Touch-up paint after installation as necessary. Color selected by owner's representative.

**MASONRY:**  
CMU shall be concrete Hollow Load Bearing Units, Grade N, Type I, Normal Weight and with minimum compressive strength of Fm=2500 PSI as per ASTM C90 specification. The Ultimate Compressive Strength of the CMU Walls Fm' shall be greater than 1500 PSI. Where required and noted CMU shall be Solid units similar to above, as per ASTM C 1107. Mortar shall be Type S in accordance to ASTM C270. All grout in Masonry shall be fine or course grout complying with ASTM C476, with a minimum ultimate compressive strength of 2500 PSI. Horizontal joint reinforcement shall be provided on 8" Vertical Spacing in CMU Walls below grade, 16" Vertical spacing in CMU Walls Above grade. Joint reinforcement shall be #4 Dia. Tress Type CUR-O-WALL, with splices lapped 6" minimum and using prefabricated Tees and corners.