

NOTES:
 GENERAL
 TOP OF INTEGRAL WALL SHALL BE LOCATED 1 TO 3 INCHES ABOVE GROUND LINE,

HANDRAIL
 RAILING AND POST SHALL BE FABRICATED FROM NOMINAL SIZE 1 1/2 IN., 0.145 IN. WALL THICKNESS STEEL PIPE MEETING THE REQUIREMENTS OF THE SPECIFICATION FOR WELDED AND SEAMLESS STEEL PIPE ASTM DESIGNATION: A 53 STANDARD WEIGHT, SCHEDULE NUMBER 40, OR ALUMINUM PIPE MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION FOR ALUMINUM-ALLOY PIPE ASTM DESIGNATION: B 241, 6063 T6 ASA SCHEDULE NUMBER 40.

STEEL POSTS AND RAILS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123. SPLICES FOR STEEL RAILING SHALL BE FIELD WELDED. AREAS ON WHICH THE SPECTER COATING HAS BEEN DAMAGED BY WELDING OR OTHERWISE IN FABRICATION, SHALL BE REGALVANIZED IN ACCORDANCE WITH AASHTO M 36 SECTION, 24 METALIZING PROCESS OR THEY SHALL BE REPAIRED UNDER THE DIRECTION OF THE ENGINEER WITH STICK FORM GALVANIZING REPAIR COMPOUND MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION 0-G-93.

THE SPLICES FOR ALUMINUM RAIL SHALL BE PROVIDED WITH INTERNAL SLEEVES AND SHALL BE SMOOTH AND WATER-TIGHT AFTER ERECTION, OR THEY MAY BE WELDED.

A SINGLE RAILING SHALL BE INSTALLED ON THE RIGHT SIDE FACING UP, UNLESS OTHERWISE SHOWN ON THE PLANS.

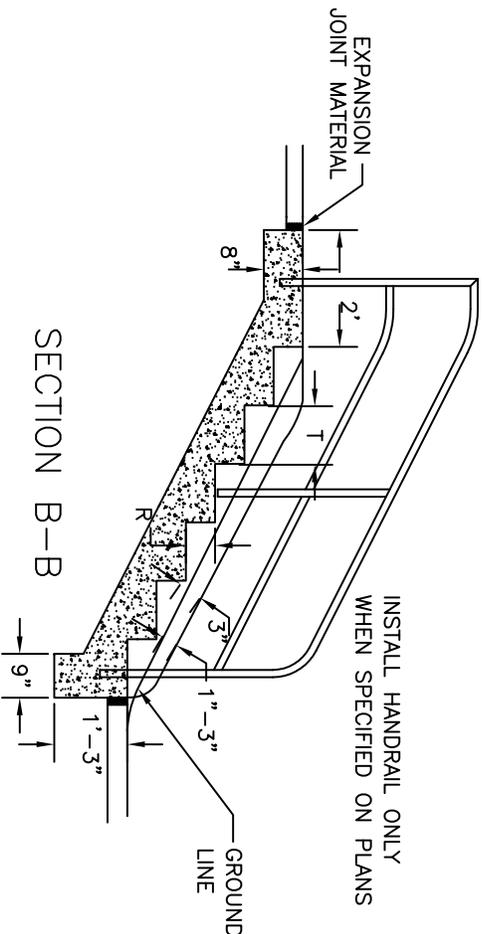
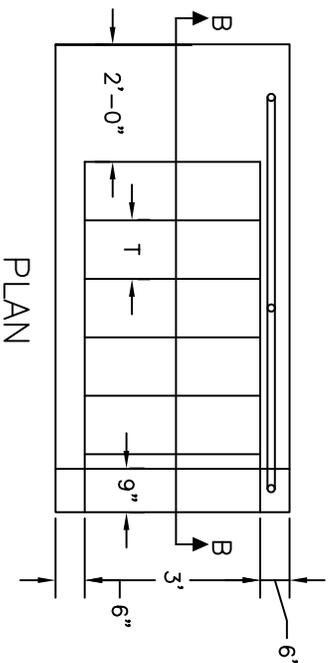
IF REQUIRED BY THE PLANS, RAILINGS SHALL BE INSTALLED ON BOTH SIDES OF THE STEPS, AND 9" WIDE INTEGRAL WALLS SHALL BE PROVIDED ON BOTH SIDED.

POSTS SHALL BE CAST IN-PLACE OR SET IN SOCKETS FILLED WITH 1-3 CEMENT MORTAR. THE PORTION OF ALUMINUM POSTS SET IN CONCRETE OR ASPHALT VARNISH OR COAL-TAR PITCH PAINT, BOTH INSIDE AND OUTSIDE.

THE INSTALLED HAND-RAILS SHALL BE FREE FROM BURRS OR SHARP PROJECTIONS.

THE COST OF PROVIDING THE HAND RAILING SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE STEPS, AND NO SEPARATE PAYMENT WILL BE MADE.

R ~ 5" MIN., 7" MAX.
 T ~ 10" MIN., 15" MAX.
 ALL RISERS SHALL BE OF EQUAL HEIGHT AND ALL TREADS SHALL BE OF EQUAL DEPTH ON ANY ONE SET OF STEPS.



CITY OF SPRINGFIELD, OHIO
 DEPARTMENT OF ENGINEERING

CONCRETE
 STEPS

DATE
 JUL 98

STANDARD DRAWING CS-1

APPROVED _____ CITY ENGINEER