



- (H1) PIPE CROSS MEMBERS ARE TO ADHERE TO SPECIFICATION ASTM A 53 TYPE E OR S-GRADE A OR B.
- (H2) THE PIPE HANDRAIL IS TO BE PAINTED BLACK IN COLOR AND ADHERE TO FEDERAL SPECIFICATION TT-E-489H.
- (H3) THE PIPE HANDRAIL IS TO BE USED ONLY AS A PROTECTION FOR PEDESTRIANS AND SHOULD NOT BE PLACED IN ANY LOCATION WHERE IT MIGHT BE SUBJECT TO VEHICULAR IMPACT. FOR VEHICULAR PROTECTION STANDARD GUARD RAIL SHOULD BE USED.
- (H4) THE PIPE HANDRAIL IS TO BE PAID FOR UNDER ITEM NO. 604-01.04, 1 1/2 " STEEL PIPE HANDRAIL PER LINEAR FEET.
- (H5) THE PIPE HANDRAIL SHALL BE REQUIRED WITH FIVE OR MORE STEPS AND WILL MEET THE FOLLOWING CONDITIONS:
  - ① ON STEPS LESS THAN 44 INCHES WIDE HAVING BOTH SIDES ENCLOSED, ONE HANDRAIL ON EACH SIDE.
  - ② ON STEPS LESS THAN 44 INCHES WIDE HAVING ONE SIDE OPEN, ONE HANDRAIL ON EACH SIDE.
  - ③ ON STEPS LESS THAN 44 INCHES WIDE HAVING BOTH SIDES OPEN, ONE HANDRAIL ON EACH SIDE.
  - ④ ON STEPS MORE THAN 44 INCHES WIDE BUT LESS THAN 88 INCHES WIDE, ONE HANDRAIL ON EACH SIDE.
  - ⑤ ON STEPS 88 OR MORE INCHES WIDE, ONE HANDRAIL ON EACH SIDE, AND ONE INTERMEDIATE HANDRAIL LOCATED APPROXIMATELY MIDWAY OF THE WIDTH.

REV. 7-1-72: CHANGED DEPARTMENT NAME.

REV. 1-1-76: CHANGED DWG. NO. FROM P-S-7a(68) TO RP-S-7.

REV. 4-15-91: DREW NEW SHEET INCLUDING INFORMATION PREVIOUSLY ON DRAWING NUMBER RP-S-7 REGARDING CONCRETE STEPS. ADDED ADDITIONAL INFORMATION ABOUT CONSTRUCTION OF STEPS. ADDED PIPE HANDRAIL DETAILS.

REV. 1-19-93: CHANGED PIPE SCHEDULES FOR HANDRAIL AND PAINT SPECIFICATIONS.

REV. 2-5-16: ADDED 12" EXTENTION BEYOND ENDS OF HAND RAIL.

☒ MINOR REVISION -- FHWA  
APPROVAL NOT REQUIRED.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

# DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS

4-15-91	RP-S-8
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