Note: PVC pipe, Schedule 40, to be paid for under the contract unit price for Polyvinyl Chloride Pipe Culvert (4"), LF.

CONCRETE GUTTER AND DRAINS AT RETAINING WALLS

METHOD FOR SETTING LIMITS OF VARIABLE FRONT SLOPES AT DRAINAGE STRUCTURES

Use Larger Value Of Either:
1. $L = 10xH$ (No Maximum)
2. $L = 10x$Ditch Offset (Maximum $L=100')$

Note: Filling or excavation of variable slopes to be done during normal grading operations.

SECTION CC

SIDE VIEW

Note: Guard, plate & clips, bolts, nuts and sleeves to be included in the contract unit price for Reinforcing Steel (Miscellaneous).

GUARD AT PIPE ENDS
METHOD FOR DETERMINING THE LENGTH OF SPECIAL PIPE REQUIRED UNDER RAILROADS

INLETS, MANHOLES OR JUNCTION BOXES
ON INTEGRAL PRECAST CONCRETE RISER FOR CONCRETE PIPE

RAILROAD COMPANY | CLEARANCE BELOW BOTTOM OF RAIL (FEET)
| STRENGTH |
|ASTM (C76) CLASS |
|---|---|
| Alabama & Gulf Coast Railway (Rail America) | 5.5 | IV |
| All Railway & Bay Line Railroad (Genesee & Wyoming) | 5.5 / 4.5 | V |
| CSX Transportation | 5.5 | V |
| First Coast Railroad (Genesee & Wyoming) | 5.5 / 4.5 | V |
| Florida Midland, Central, and Northern Railroads (Pinksy Railroad) | 5.5 | V |
| Florida East Coast (FEC) Railway Company | 5.5 | IV |
| Florida West Coast Railway Company | 5.5 | V |
| Georgia & Florida Railway, Inc. | 5.5 | V |
| Norfolk Southern (NS) Railway Corporation | 5.5 / 4.5 | V |
| Port of Palm Beach District Railroad | 5.5 | IV |
| Seminole Gulf Railway (LP) | 6.0 | V |
| South Central Florida Express | 6.0 | V |
| Talleyrand Terminal Railroad (Genesee & Wyoming) | 5.5 / 4.5 | V |
| South Florida Regional Transportation Authority (Tri-County Commuter Rail) | 5.5 | V |

(1) - Distance standard for yard and industrial tracks.
(2) - Clearance is for casing pipe. All subgrade carrier pipelines and wirelines will be installed within a casing pipe which will extend from Right-of-Way line to Right-of-Way line.

Minimum Length Of Special Pipes Required (To Be In Increments Of 8')

5'-0" For Other Size Pipes
6'-0" For 54" Pipe

PLAN OF TOP

SECTION

Reinforced Concrete Top
(1) - Required When Inlet, Manhole or Junction Box Riser Is Less Than 4 Feet In Diameter; Or When 3'-6" Alt. B Inlet, Manhole Or Junction Box Riser Is Used; Or When Rectangular Inlet Is Used.

For Optional Construction
Joint's See Index No. 201

Additional Std. Strength Pipe As Required

Pipe Shell Thickness

Additional Std. Strength Pipe As Required

Flow Line Of Pipe

Top Of Rail

Minimum Length Of Special Pipes Required

(To Be In Increments Of 8')

5'-0"

6'-0"

6'-0"

14"

6"

#5 Bars

Round Or Elliptical Pipe

54" Minimum (Span Or Dia.)

4'-0"

3'-0"

2'-0"

1'-0"

4'-0"

54" Minimum (Span Or Dia.)

4'-0"

3'-0"

2'-0"

1'-0"

AALIK GULF COAST RAILWAY (RAIL AMERICA) 5.5 IV

AN RAILWAY & BAY LINE Railroad (GENESSEE & WYOMING) 5.5 / 4.5 V

CSX TRANSPORTATION 5.5 V

FIRST COAST RAILROAD (GENESSEE & WYOMING) 5.5 / 4.5 V

FLORIDA MIDLAND, CENTRAL, AND NORTHERN RAILROADS (PIKSY RAILROAD) 5.5 V

FLORIDA EAST COAST (FEC) RAILWAY COMPANY 5.5 IV

FLORIDA WEST COAST RAILWAY COMPANY 5.5 V

GEORGIA & FLORIDA RAILWAY, INC. 5.5 V

NORFOLK SOUTHERN (NS) RAILWAY CORPORATION 5.5 / 4.5 V

PORT OF PALM BEACH DISTRICT RAILROAD 5.5 IV

SEMINEOLE GULF RAILWAY (LP) 6.0 V

SOUTH CENTRAL FLORIDA EXPRESS 6.0 V

TALLEYRAND TERMINAL RAILROAD (GENESSEE & WYOMING) 5.5 / 4.5 V

SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY (TRI-COUNTY COMMUTER RAIL) 5.5 V

(1) - Distance standard for yard and industrial tracks.
(2) - Clearance is for casing pipe. All subgrade carrier pipelines and wirelines will be installed within a casing pipe which will extend from Right-of-Way line to Right-of-Way line.