NOTES

TRAFFIC RAILINGS OR PARAPETS:
If there is a Traffic Railing or Parapet on the wall, align Wall Joints with V-Grooves, and Wall Expansion Joints with Barrier Open Joints.

FOUNDATION: Prepare the soil below the footing in accordance with the requirements for spread footings in Specification Section 455.

* Shear Key is required only when specified in the Plans.

TYPICAL SECTION

REINFORCING STEEL BENDING DIAGRAMS

Total Length

1'-0" Lap Splice (Typ.)

BARS GI

Slope
Backwall

NOTE:
All bar dimensions are out-to-out
**Wall Joint Spacing**

Wall joint spacing 25 ft. maximum and 5' minimum. At minimum, every fourth wall joint to be an expansion joint. See Plans for actual wall joint spacing and expansion joint location.

**Ground Line**

Top of Footing Level (Typ.)

3" Ø PVC Drain Pipe at 10 ft. max. spacing (Typ.) See Typical Backfill Detail—Traffic Railing (Index 521-610, 36" Single-Slope shown, see Plans for Traffic Railing Type)

At Contractor's option, Surface Treatments may terminate 9" below ground line

See 'Detail A'

![Diagram of Wall Joint Spacing](image)

**45° (Typ.)**

Front Face of Wall

Vertical Line

Stem Offset (in.) = H(Ft.)/16

Stem as constructed

Stem Offset (for H < 20 Ft.)

![Diagram of Stem Offset Values](image)

**V-GROOVE DETAIL**

Top of Footing

V.GROOVE DETAIL

Front Face of Wall

Vertical Line

Stem Offset

1 1/2

1/2 V-Groove (Typ.)

(see 'V-Groove Detail')

Bars D @ 1'-0" (Max. spacing)

Bar D

![Diagram of V-Groove Detail](image)

**SECTION A-A WALL JOINT DETAIL**

1 1/2

1/2 Prefomed Joint Filler

Bars D @ 1'-0" (Max. spacing)

Optional Shear Key

Const. Joint Permitted

![Diagram of Wall Joint Detail](image)

**EXPANSION JOINT DETAIL**

Slopes backfills transversely and longitudinally as necessary to drain and prevent ponding during backfilling.

Limits of Excavation

Final Groundline

Inside ends of weep holes shall be covered with 1.0 square foot of galvanized mesh with 1/2" openings

Drain shall be continuous 1.5' x 1.5' clean, broken stone or gravel, graded and placed to allow free drainage. Place Type D-3 (see Specification Section 985) geotextile fabric, 1'-0" wide and full height of fill, to the back of wall with an adhesive approved by the Engineer.

![Diagram of Expansion Joint Detail](image)

**TYPICAL BACKFILL DETAIL**

See Roadway Plans for drainage requirement

Front Face of Wall

1' C.I.

![Diagram of Typical Backfill Detail](image)

**TRAFFIC RAILING/JUNCTION SLAB DETAIL**

(36" Single-Slope shown, other Traffic Railings similar)

Final Groundline

Top of CIP Wall

Top of Coping

2 1/2

2 1/2

3" Ø PVC Drain Pipe. Slope down 1/2' back to front of wall and extend 1/2 beyond both front face and back face of wall.

![Diagram of Traffic Railing/Junction Slab Detail](image)

**TYPICAL CORNER JOINT DETAIL**

Attach Type D-5 (see Specification Section 985) Geotextile fabric, 1'-0" wide and full height of fill, to the back of wall with an adhesive approved by the Engineer.

![Diagram of Typical Corner Joint Detail](image)

**STANDARD PLANS**

FY 2019-20

CANTILEVER RETAINING WALL (C-I-P)