CONCRETE BARRIER WALL TRANSITION BETWEEN WIDE AND NARROW MEDIAN WHEN BARRIER WALL END LOCATED OUTSIDE APPROACH CLEAR ZONE OR HORIZONTAL CLEARANCE

SHOULDER TREATMENT WHEN CRASH CUSHIONS SHIELDING CONCRETE BARRIER WALL END LOCATED INSIDE APPROACH CLEAR ZONE OR HORIZONTAL CLEARANCE

DETAIL A

FREE END REINFORCEMENT

DOVELED TRANSVERSE CONSTRUCTION JOINT WHEN ABUTTING SEGMENT(S) LESS THAN 40' IN LENGTH

DETAIL B

PRECAST BARRIER TRANSVERSE JOINTS

DETAIL C

STRaight TONGUE AND Groove

DETAIL D

W-BEAM GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL TRAILING ENDS

END VIEW

SIDE VIEW

Notes: Free end reinforcement required for nonreinforced walls at all exposed ends, abutting ends of frame joints, end with guardrail connection, end with Guardrail System connection, and end connecting to bridge traffic rail or other rigid barrier type.
CONCRETE MEDIAN BARRIER WALL TRANSITIONS AT BRIDGE PIERS AND OVERHEAD SIGN SUPPORTS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER WALL

SECTION AA
BRIDGE PIERS

SECTION BB
COMBINATION BARRIER AND SIGN PEDESTAL

SECTION CC
INDEPENDENT BARRIER AND SIGN PEDESTAL

Dimensions (Feet) 

L M T

| 95 | 20 | 15 |

4" Concrete Cap Over Gravel Fill

End R Reinf. 

4" Concrete Cap Over Gravel Filler

1/2 Expansion Material Wrap Around Columns And Studs At Concrete Cap

3" Expansion Material Wrap Around

4" Concrete Cap

1/2" To 3/4" Slot Drain Lag Screw

Sharps Circumferential Wall, Gravel Fill

NOTE: Pictures represent illustrations of bridge pier transition details, not actual construction standards. For actual construction, refer to the Florida Department of Transportation's detailed guidelines.
LIGHT POLE MOUNTING IN MEDIAN BARRIER WALL
BENDING DIAGRAMS

REINFORCED CONCRETE BARRIER WALL (RETAINING)

NOTE: All longitudinal reinforcement #4 bar.

Materials proposed length for 100 foot wall be 20 feet.
Wall to be held for under the contract unit price
for Concrete Barrier Wall (Rigid Retaining), LF.

QUANTITIES:
Concrete: 0.09 CY/LF
Reinforcing Steel: 0.11 LB/LF
TWO-WAY TRAFFIC (UNDIVIDED)

ONE-WAY TRAFFIC

BRIDGE END HAZARD

TWO-WAY TRAFFIC (UNDIVIDED)

ONE-WAY TRAFFIC

HAZARD 4' OR LESS FROM FACE OF CURB

CONCRETE BARRIER WALL (RIGID) (CURB & GUTTER)
CURB AND GUTTER WITH UTILITY STRIP AND WITH ADJACENT BICYCLE LANE
TWO-WAY TRAFFIC (OPPOSING LANE APPROACH)

ONE-WAY TRAFFIC (TRAILING END)

CONCRETE BARRIER WALL (RIGID) (CURB & GUTTER) • TRANSITION SEGMENTS • WITH ADJACENT BICYCLE LANE
WITH OR WITHOUT UTILITY STRIP
NEAT LINE PICTORIAL VIEW

SECTION BB

SECTION AA

SECTION CC

NEAT LINE PICTORIAL VIEW

Notes:
- Drainage slots shall be located at soil line outside of the sidewalk and, unless otherwise shown in the plans, shall be spaced at intervals not exceeding 10' in full sections and 20' in cut sections. Slots shall be located such that any debris is carried away or drained in front and back of vertical reinforcement.

SIDEWALK DRAINAGE SLOT FOR BARRIER WALL (RIGID) (CURB & GUTTER)

NOTE:
- Transition segments shall be completed into the end of the barrier wall in the following manner:
  - Four 1/8" diameter holes 2" deep in 2" centers shall be drilled in the end of the barrier and 1/8" bars 1/2" long are to be inserted. The ends of the drain shall be extended into the transition segment. The drain shall be wrapped with one layer of 30 lb. Type II asphalt-saturated roofing felt with the end overlapped.

- When construction joints are utilized for transition segment construction, the steel shall be deburred to the footing in the following manner:
  - The 1/8" bars 1/2" long shall be embedded 1" into the footing. The drain shall be wrapped with one layer of 30 lb. Type II asphalt-saturated roofing felt. Joints may be sealed within or adjacent to the roadway.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER WALL

RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE HAND

ONE-WAY AND TWO-WAY TRAFFIC (NEAR LANE APPROACH)

CONCRETE BARRIER WALL (RIGID) (CURB & GUTTER) • TRANSITION SEGMENT • WITH ADJACENT BICYCLE LANE