½" V-Groove (Typ.)

PRECAST COPING

¾" Preformed
Expansion Joint Filler

½" V-Groove (Typ.)

C-I-P COPING

¾" Preformed
Expansion Joint Filler

DETAIL "C"

(Showing Locations of ½" V-Grooves and
¾" Preformed Expansion Joint Filler)

Approach Slab
(See Note 8)

Bars 5B2

½" V-Groove (See
Note 3 & Detail "C")

2" Cover
Sides (Typ.)

Bars 5A @ 1'-0" sp.
(tied to Bars 5L (Typ.)

2'-2" Min.
Lap Splice

Edge of
Precast
Coping

¾" Open Joint

Spacing Bars 4P 5½"

½" V-Groove Spacing

Begin or End Retaining
Wall, Precast Coping/
Parapet or C-I-P Coping

Field cut reinforcing as required
to maintain minimum cover (Typ.)

1'-0" Spacing (Typ.) (See Note 4)

30'-0" Max. (See Note 3)

¾" Open Joint
in Precast Coping

Bars 4P1 (Typ.)

2" Cover @
Open Joints

Bars 5L @ 1'-0" sp.
(tied to Bars 5U1) (Typ.)

Bars 5U1 @ 1'-0" sp.
(tied to Bars 4P) (Typ.)

Coping

Bars 5B1

2" Cover @
Expansion Joints

¾" Expansion Joint Spacing ~ 50'-0" Min., 90'-0" Max. (See Note 1)

PARTIAL PLAN VIEW
(Skewed Approach Slab Shown, Perpendicular Approach Slab Similar)
(Precast Coping Shown, C-I-P Coping Similar) (Concrete Parapet not Shown for Clarity)

℄ ¾" Open Joint in
Precast Coping and
Concrete Parapet
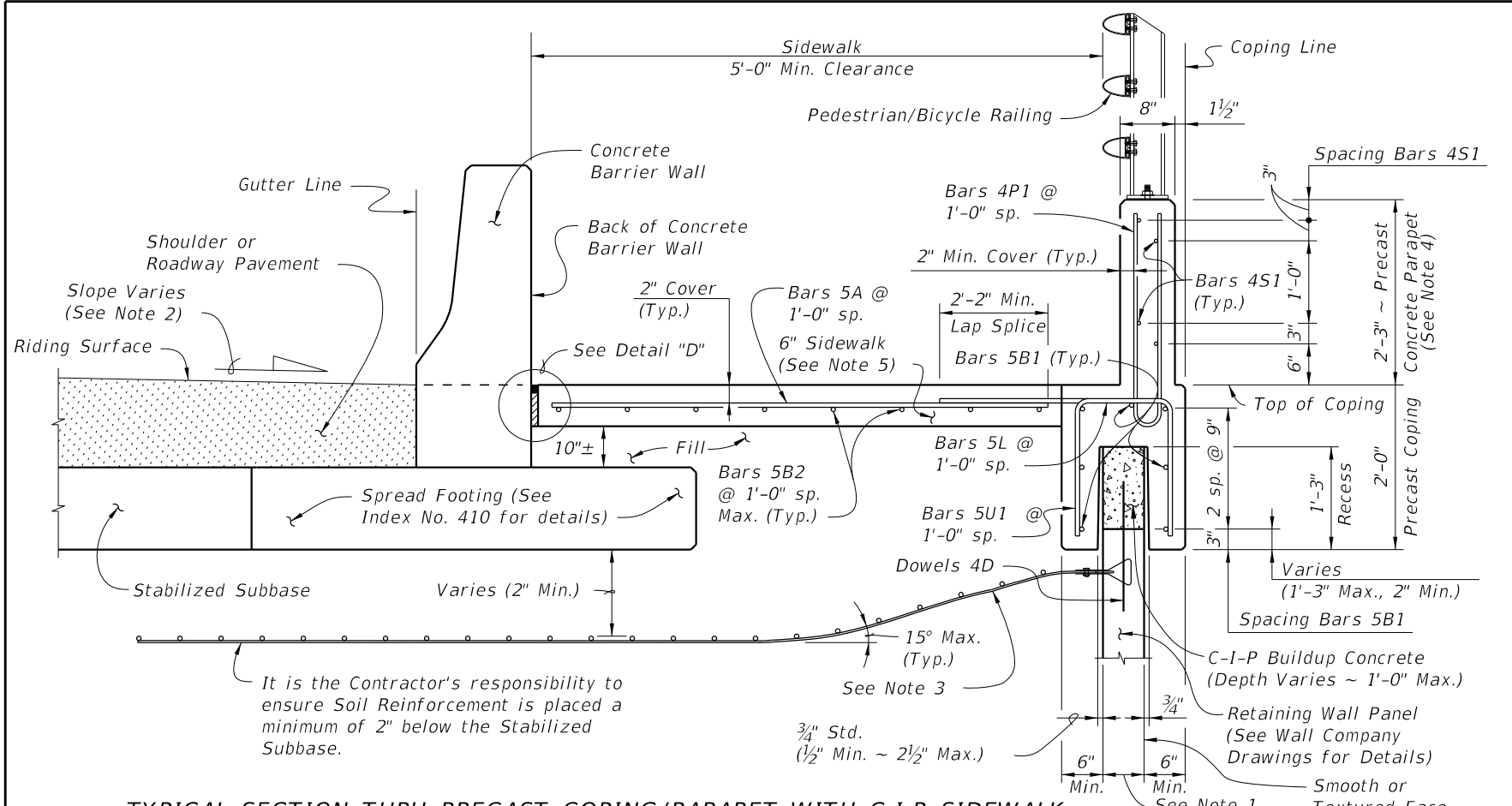to coincide with
¾" Expansion Joint
in Sidewalk

PRECAST COPING/PARAPET AND SIDEWALK NOTES:

1. Provide Class II concrete for slightly aggressive environments or
    Class IV for moderately or extremely aggressive environments.
2. Construct ¾" Expansion Joints in sidewalk and C-I-P coping plumb and
    perpendicular or radial to the Gutter Line. Provide at 90'-0" maximum
    intervals as shown.
3. Provide and install Preformed Expansion Joint Filler in accordance with
    Specification Section 932.
4. Construct ½" V-Grooves in sidewalk and C-I-P coping plumb and
    provide at 30'-0" maximum intervals as shown. Space V-Grooves equally
    between ¾" Expansion Joints and/or Begin or End Sidewalk. For C-I-P
    Coping only, V-Groove locations are to coincide with V-Groove locations
    in the Concrete Parapet.
5. Spacing shown is along the Gutter Line.
6. For Precast Coping only, Dowel Bars 4D are to extend 1'-0" above the top
    of retaining wall panel. Field cut as necessary to maintain 2" minimum cover
    to the top of the buildup concrete. See Wall Company Drawings for number
    and spacing of Dowel Bars 4D.
7. Work this Index with the following:
    Index No. 410 – Concrete Barrier Wall
8. For C-I-P Coping only, work this Index with the following:
    Index No. 820 – Pedestrian/Bicycle Railing.
9. Finish Sidewalks in accordance with Specifications Section 522.
10. The following Indexes contain details of the intersection of the retaining
    wall at approach slabs:
    Index No. 20900 – Approach Slabs (Flexible Pavement Approaches)
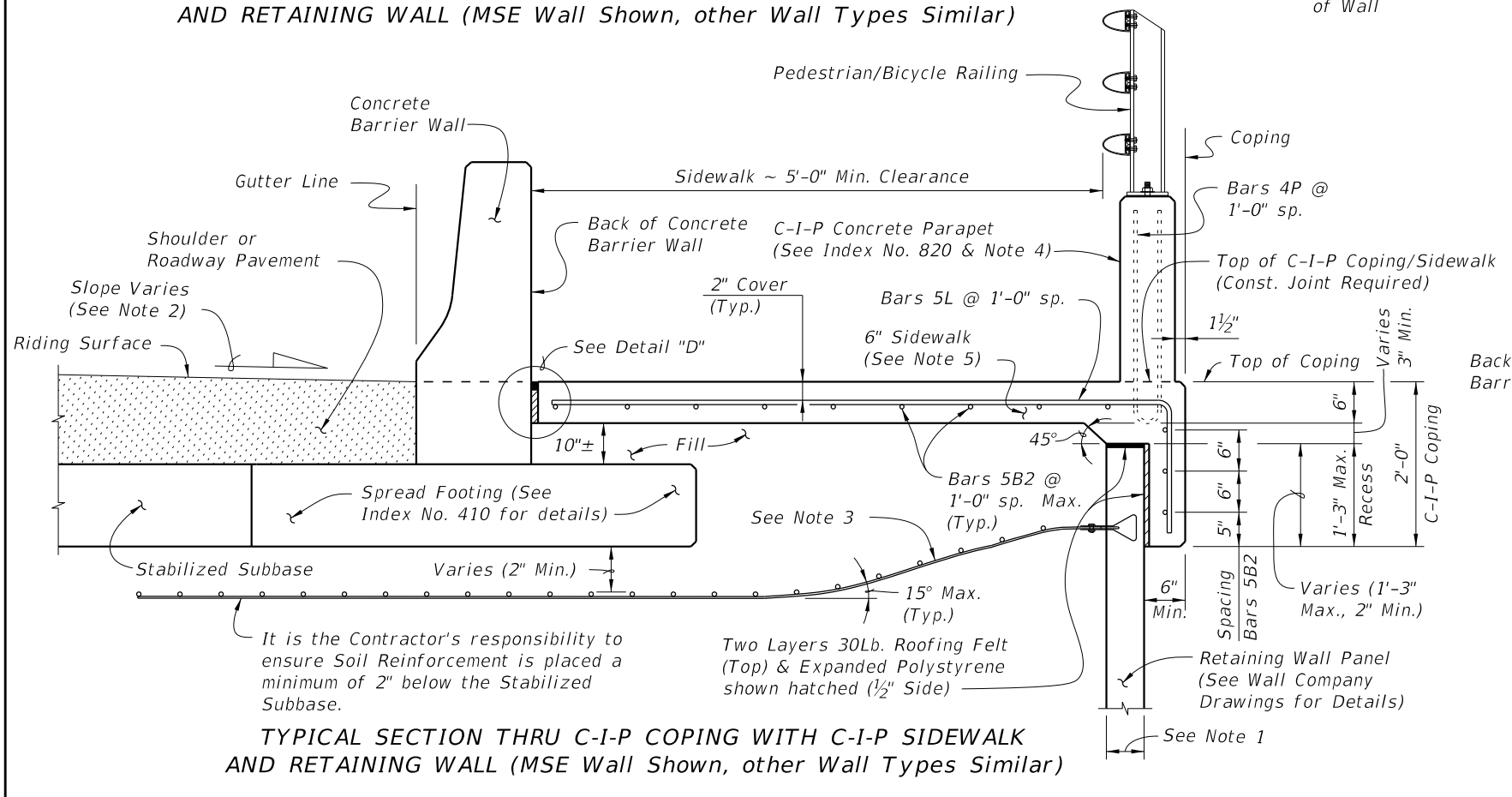   Index No. 20910 – Approach Slabs (Rigid Pavement Approaches)

℄ ¾" Open Joint in
Precast Coping and
Concrete Parapet

10'-0" Typical Precast Coping & Concrete Parapet (5'-0" Min.)

Top of Precast
Concrete Parapet

Top of Precast
Coping

2'-3" Precast
Concrete Parapet

Top of C-I-P
Buildup Concrete

Top of Retaining
Wall Panel (Typ.)

2" Cover Min.

Varies
(1'-0" Max.)

2'-0" Precast
Coping

Bottom of
Precast Coping

Retaining Wall
(MSE Wall shown
other types similar)

Clearance
Varies

Dowel Bars 4D
(Typ.) (See Note 5)

PARTIAL ELEVATION VIEW
(Precast Coping and Sidewalk Reinforcing not Shown for Clarity)
(Precast Coping Shown, C-I-P Coping Similar)

BILL OF REINFORCING STEEL

MARK	SIZE	LENGTH	
		PRECAST COPING	C-I-P COPING
A	5	VARIES	N/A
B1	5	9'-6"	N/A
B2	5	AS REQD.	AS REQD.
D	4	2'-0"	N/A
L	5	VARIES	VARIES
P1	4	5'-5"	N/A
S1	4	9'-6"	N/A
U1	5	VARIES	N/A

5A — Precast Coping ~ Varies
5B1 — Precast Coping ~ 9'-6"
5B2 — Length as Required
4S1 — Precast Coping ~ 9'-6"

BARS 5A, 5B1, 5B2 & 4S1

Varies

Precast Coping 7" / C-I-P Coping 1'-8"

BAR 5L

4"

2'-7"

BAR 4P1

Panel width + 1'-0"

1'-8"
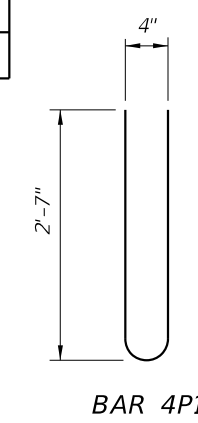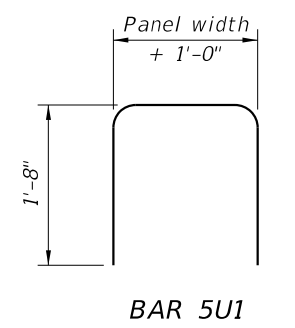
BAR 5U1

REINFORCING STEEL NOTES:
1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at expansion joints will have a 2" minimum cover.
3. Lap splices for Bars 5B2 will be a minimum of 2'-2".
4. For Precast Coping only, lap splice Bars 5L with Bars 5A. Lap splices will be a minimum of 2'-2".
5. For C-I-P only, see Index No. 820 for Bars 4P and 4S.
6. The Contractor may use Welded Wire Reinforcement when approved by the Engineer. Welded Wire Reinforcement must conform to ASTM A 497.

Sidewalk 5'-0" Min. Clearance

Coping Line

Pedestrian/Bicycle Railing

8" / 1½"

Spacing Bars 4S1

Concrete Barrier Wall

Gutter Line

Back of Concrete Barrier Wall

Bars 4P1 @ 1'-0" sp.

3"

2" Min. Cover (Typ.)

Shoulder or Roadway Pavement

Bars 4S1 (Typ.)

2-3" ~ Precast Concrete Parapet (See Note 4)

Slope Varies (See Note 2)

2" Cover (Typ.)

Bars 5A @ 1'-0" sp.

2'-2" Min. Lap Splice

1'-0"

Riding Surface

See Detail "D"

6" Sidewalk (See Note 5)

Bars 5B1 (Typ.)

6" / 3"

Top of Coping

2-3" ~ Precast Concrete Parapet

10"±

Fill

Bars 5L @ 1'-0" sp.

Top of Coping

Bars 5B2 @ 1'-0" sp. Max. (Typ.)

Precast Coping 2'-0"

Spread Footing (See Index No. 410 for details)

Bars 5U1 @ 1'-0" sp.

3" 2 sp. @ 9"

1'-3" Recess

Stabilized Subbase

Varies (2" Min.)

Dowels 4D

Varies (1'-3" Max., 2" Min.)

Spacing Bars 5B1

15° Max. (Typ.)

See Note 3

C-I-P Buildup Concrete (Depth Varies ~ 1'-0" Max.)

It is the Contractor's responsibility to ensure Soil Reinforcement is placed a minimum of 2" below the Stabilized Subbase.

¾" Std. (½" Min. ~ 2½" Max.)

6" Min. / 6" Min.

¾"

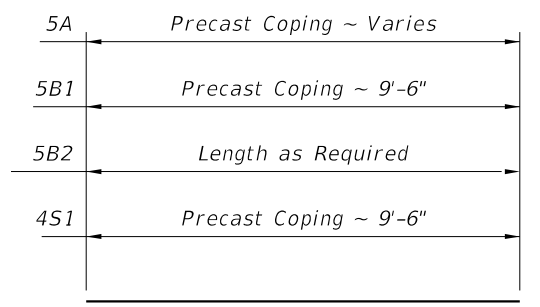Retaining Wall Panel (See Wall Company Drawings for Details)

See Note 1

Smooth or Textured Face of Wall

TYPICAL SECTION THRU PRECAST COPING/PARAPET WITH C-I-P SIDEWALK AND RETAINING WALL (MSE Wall Shown, other Wall Types Similar)
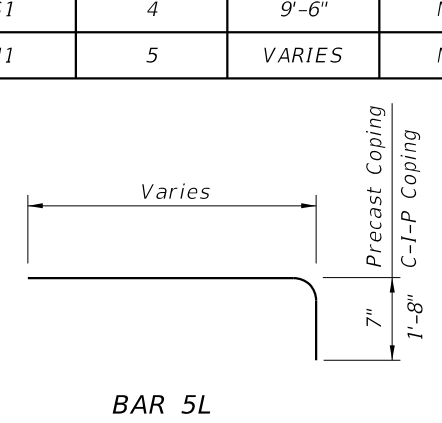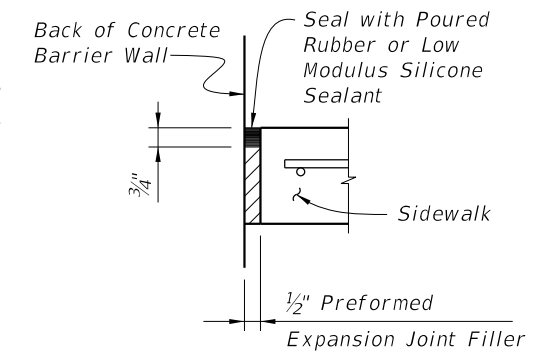

Pedestrian/Bicycle Railing

Concrete Barrier Wall

Coping

Gutter Line

Back of Concrete Barrier Wall

Sidewalk ~ 5'-0" Min. Clearance

C-I-P Concrete Parapet (See Index No. 820 & Note 4)

Bars 4P @ 1'-0" sp.

Top of C-I-P Coping/Sidewalk (Const. Joint Required)

Shoulder or Roadway Pavement

1½"

3" Min.

Slope Varies (See Note 2)

2" Cover (Typ.)

Bars 5L @ 1'-0" sp.

Top of Coping

Varies

Riding Surface

See Detail "D"

6" Sidewalk (See Note 5)

6"

10"±

Fill

45°

6" / 6"

Bars 5B2 @ 1'-0" sp. Max. (Typ.)

6" / 6"

1'-3" Max. Recess

C-I-P Coping 2'-0"

Spread Footing (See Index No. 410 for details)

See Note 3

5"

Spacing Bars 5B2

Stabilized Subbase

Varies (2" Min.)

15° Max. (Typ.)

6" Min.

Varies (1'-3" Max., 2" Min.)

It is the Contractor's responsibility to ensure Soil Reinforcement is placed a minimum of 2" below the Stabilized Subbase.

Two Layers 30Lb. Roofing Felt (Top) & Expanded Polystyrene shown hatched (½" Side)

Retaining Wall Panel (See Wall Company Drawings for Details)

See Note 1

TYPICAL SECTION THRU C-I-P COPING WITH C-I-P SIDEWALK AND RETAINING WALL (MSE Wall Shown, other Wall Types Similar)

Back of Concrete Barrier Wall

Seal with Poured Rubber or Low Modulus Silicone Sealant

¾"

Sidewalk

½" Preformed Expansion Joint Filler

DETAIL "D"

PRECAST COPING/PARAPET AND SIDEWALK NOTES:
1. Actual width varies depending on type of Retaining Wall used.
2. Match Cross Slope of Travel Lane or Shoulder.
3. Gradually deflect/displace Soil Reinforcement downward as required. Soil Reinforcement is shown deflected downward for illustrative purposes only and is not to scale. See Wall Company Drawings for details.
4. Concrete Parapet shown, Concrete Pedestrian/Bicycle Railing (Index No. 825 & 826) similar. Complete details and dimensions of Concrete Pedestrian/Bicycle Railing are required in the Shop Drawings.
5. Match cross slope of connecting sidewalk or as shown in the Wall Control Drawings.

LAST REVISION	REVISION	DESCRIPTION:		FDOT DESIGN STANDARDS FY 2012/2013	WALL COPING/PARAPET WITH C-I-P SIDEWALK	INDEX NO.	SHEET NO.
01/01/12			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			6130	2

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