Chapter 08
AESTHETICS
(AES)
GROOVE DETAIL

Scale: None

Reinforcing steel (typ.)

2 3/4"

2"

1/8"

2"

2" cl.
Notes:
1. Special layouts may be necessary at certain locations. If details are shown on other Contract Drawings such limitations will take priority over these details.
2. These striations shall only be used on bridge substructure elements and retaining walls, where specifically called for on Contract Drawings.
3. Cost of all striations, complete-in-place, to be included in other pertinent Contract Items.
4. Contraction and expansion joints shall always be located in striated areas.
5. F-Shape barrier is for illustrative purposes only. See plans for barrier type.

Finished Groundline at face of wing wall.

Note: Abutment shown dashed.

Striations to continue around end of pier.

Finished Groundline at face of abutment and/or top of slope protection.

Top of F-Shape Barrier

AT F-SHAPE BARRIER

Scale: \( \frac{1}{8}'' = 1'-0'' \)

AT OTHER LOCATIONS

Notes:
1. Special layouts may be necessary at certain locations. If details are shown on other Contract Drawings such limitations will take priority over these details.
2. These striations shall only be used on bridge substructure elements and retaining walls, where specifically called for on Contract Drawings.
3. Cost of all striations, complete-in-place, to be included in other pertinent Contract Items.
4. Contraction and expansion joints shall always be located in striated areas.
5. F-Shape barrier is for illustrative purposes only. See plans for barrier type.

Finished Groundline at face of wall.
TRapezoidal Striation Details for Bridge Substructure Units and Retaining Walls

**SECTION A-A**

Scales: 1" = 1'-0"

- Finished Groundline
- Wall Thickness as required design.
-桥座在挡土墙
-Optional Constr. Jt.
-6" min.
-1 1/2"

**SECTION B-B**

Scales: 1" = 1'-0"

- Bridge seat at abutments.
- Opt. Constr. Jt. with key 1/3 + width of wall:
- 1/4" x 1/4" Chamfer (Typ.)
- Drip Groove

**SECTION C-C**

RETAINING WALL
AT OTHER LOCATIONS

Scale: 1" = 1'-0"

- Top of F-Shape Barrier
- Optional Constr. Jt.
- Wall Thickness as required design.
- Finished Groundline
- Finished Roadway

**SECTION D-D**

RETAINING WALL WITH JERSEY BARRIER

Scale: 1" = 1'-0"

- Reinforcing Steel
- Front face of wall. All dimensions taken to this face, unless otherwise noted.

FORmboard pattern detail

Scale: 1/2" = 1'-0"

- Note:
  - F-Shape barrier is for illustrative purposes only. See plans for barrier type.

DATE: 07/25/2019

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

TRAPEZODAL STRIATION DETAILS FOR BRIDGE SUBSTRUCTURE UNITS AND RETAINING WALLS

DETAIL NO. AES-201 SHEET 2 OF 2
For wing walls
\[ S = \frac{4}{3} T = 2R \]

For abutments/piers
\[ Q = 2P = 4M \]

For retaining walls
\[ W = \frac{5}{4} V = \frac{5}{3} U \]

**ABUTMENT**

**WING WALL**

Scale: None

**ABUTMENT/PIER**

Scale: None

**RETAINING WALL**

Scale: None

Note:
F-Shape barrier is for illustrative purposes only.
\[ a' = x' + z' + \frac{1}{4}'' \]
\[ x' = \frac{1}{2}'' \cos \frac{a}{2} \]
\[ y' = \frac{1}{2}'' \sin \frac{a}{2} \]
\[ z' = (1\frac{1}{2}'' + y') \tan \frac{a}{2} \]
\[ d' = 2\frac{1}{2}'' \tan \frac{a}{2} \]

**SECTION BELOW COPING**

Scale: 1\(\frac{1}{2}''\)=1'-0''

Note:
For dimensions Q, M and S see other plan sheets.

**SECTION THRU COPING**

Scale: 1\(\frac{1}{2}''\)=1'-0''
\[ \beta = \frac{90 + a}{2} \]
\[ a = z + x + \frac{1}{4}'' \]
\[ b = (9'' + a) \tan \alpha \]
\[ c = (9'' + a) \sin \alpha \]
\[ d = 2\frac{1}{2}'' \tan \beta \]
\[ x = \frac{1}{2}'' \sin \beta \]
\[ y = \frac{1}{2}'' \cos \beta \]
\[ z = (1\frac{1}{2}'' + y) \tan \beta \]

**Location**

<table>
<thead>
<tr>
<th>Location</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>a</td>
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<td>c</td>
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**Section Thru Coping**

Scale: \( \frac{1}{2}'' = 1'-0'' \)

**Section Below Coping**

Scale: \( \frac{1}{2}'' = 1'-0'' \)

Note:
For dimensions Q, M and S see other plan sheets.