GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH

REMOVE AND REPLACE EAGRT WITH MSKT-SP-MGS (SEE MSKT-SP-MGS SHEET 1)

INSTALL NEW MSKT-SP-MGS EAGRT 25' (SEE SHEET 8)

NO WORK ON THIS SIDE OF LOT

REPLACE GUARDRAIL

REPLACE GUARDRAIL

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REPLACE GUARDRAIL

REPLACE GUARDRAIL

REPLACE GUARDRAIL

MEDIAN RAIL TO REMAIN

NO WORK ON THIS SIDE OF THE LOT

NO WORK ON THIS SIDE OF THE LOT

NO WORK ON THIS SIDE OF THE LOT

NO WORK ON THIS SIDE OF THE LOT

NO WORK ON THIS SIDE OF THE LOT
GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH

NOTE: THIS TABLE IS PROVIDED AS REFERENCE ONLY, BIDDERS SHALL VERIFY THE QUANTITIES OF ALL ITEMS REQUIRED BEFORE SUBMITTING THEIR BID.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LENGTH</th>
<th>Q'TY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>UNIT</th>
<th>PRICE</th>
<th>TOTAL</th>
</tr>
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<tbody>
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GUARDRAIL REPLACEMENT SCALE
GENERAL NOTES

1. THE DEFINITION OF ROAD SIDE BARRIER IS PER THE LATEST ADAPTED EDITION OF THE AMERICAN DESIGN STANDARD. EXCLUDED FROM THIS IS THE GATING PORTION OF A GUARDRAIL TERMINAL UNIT OR CURB CLOSER AS WELL AS THE ENTIRE 6' TERMINAL UNIT.

2. ITEMS IN BRACKETS [ ] ARE STANDARD ELEMENTS DESCRIBED IN "A GUIDE TO STANDARDIZED HIGHWAY BARRIERS".

3. ONLY USE RECTANGULAR PLATE WASHERS [FARO] WHERE SHOWN ON THE OTHER SHEETS OR AS REQUIRED BY THE MANUFACTURERS FOR THEIR PROPRIETARY PRODUCTS.

4. THE 12'-6" LENGTH RAIL ELEMENTS IN RAIL CURVES OF LESS THAN 100' RADIUS.

5. ESTABLISH RAIL HEIGHT AS FOLLOWS:
   A. SET THE HEIGHT OF RAIL FROM THE ROOF EDGE OF THE
      PLATE ON THE EDGE OF THE EDGE OF THE
   B. SET THE HEIGHT OF RAIL FROM THE ROOF EDGE AT THE
      FACE OF THE EDGE AT THE EDGE OF THE
   C. SET THE HEIGHT OF RAIL FROM THE ROOF EDGE AT THE
      FACE OF THE EDGE AT THE EDGE OF THE
   D. SET THE HEIGHT OF RAIL AT THE VALUE OF THE CURVE
      AT THE EDGE OF THE

6. USE OF POSTS SHORTEST THAN 1', BUT NOT LESS THAN 6'-0"
   LONG IS ONLY ALLOWED UNDER THE FOLLOWING CONDITIONS:
   A. WHERE THERE IS A MINIMUM DISTANCE OF 1' FROM
      THE BACK OF THE GUARDRAIL POST ALONG A SLOPE OF
      FLAT OR FLATTER SLOPE TO THE SLOPE DECK OR A FLATTER SLOPE OR
   B. WHERE THERE IS A MINIMUM DISTANCE OF 2' FROM
      THE BACK OF THE GUARDRAIL POST ALONG A SLOPE OF
      FLAT OR FLATTER SLOPE TO THE SLOPE DECK OR A FLATTER SLOPE OR

7. THE FACE HAS HORIZONTAL OFFSET BLOCKS ON THEIR VERTICES THAT
   ARE ELIGIBLE FOR FEDERAL PARTICIPATION RESPECTABLE TEST
   LEVEL 3 CRITERIA. OTHERS MAY BE ADDED UNDER SOLAR
   DETAIL 5 ON MEMO IN THE FOLLOWING. SOME OF THESE OFFSETS
   BLOCKS HAVE OR MAY HAVE DIMENSIONS THAT WOULD BE
   CONSIDERED WITHIN THE NORMAL CONSTRUCTION DIMENSIONS OF
   THE FOLLOWING APPEARS
   A. THE FACE OF RAIL SHALL REMAIN AT THE EDGE OF
      THE PLATE ON THE EDGE OF THE EDGE OF THE EDGE OF
   B. THE DISTANCE FROM THE BACK OF THE POST TO THE BREAK
      IN THE SLOPE SHALL NOT BE LESS THAN 1" SHOWN ON THE PLANS BUT IT MAY BE MORE.
   C. ALL OTHER REQUIREMENTS OF THE PERMAFROST
      SPECIFICATIONS AND DETAILS REMAIN IN FORCE.
### DELINERATOR SPACING

#### DELINERATORS ON HORIZONTAL CURVES

<table>
<thead>
<tr>
<th>Radius of Curve (ft)</th>
<th>Spacing for Beam Guardrail Delinators on Curve (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>20</td>
</tr>
<tr>
<td>100</td>
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<tr>
<td>200</td>
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<tr>
<td>700</td>
<td>20</td>
</tr>
<tr>
<td>800</td>
<td>20</td>
</tr>
</tbody>
</table>

**NOTE:** The spacing may be up to 100 feet per lane for median guardrail sections.

### ROUNDED CORNERS

- Corners may be rounded.
- A 3" single piece may be used for corners.

### GENERAL NOTES

- Delinators shall not be placed beyond the left edge of the road or hazard.
- Delinators shall be installed so that the delinenerator post is adjacent to the facing edge of the nearest guardrail post.
- Handrail delinators shall be installed only on curves; three delinators shall be placed before and after the original position of the curve.
- Handrail delinators shall be placed on guardrails; the spacing shall be 25 feet.
- Delinators shall be in all cases conform to the color of the roadway.
- Delinators will not be placed on non-deck.

### RETROREFLECTIVE BEAM GUARDRAIL DELINATOR

- RETROREFLECTIVE BEAM GUARDRAIL DELINATOR (ITEM 624.1)
- CIRCLE A DOTHINE SIDE

### DELINERATOR WITHIN GUARDRAIL SECTION

- DELINERATOR WITHIN GUARDRAIL SECTION

### RETROREFLECTIVE BEAM GUARDRAIL DELINATOR

- RETROREFLECTIVE BEAM GUARDRAIL DELINATOR (ITEM 624.2)
- CIRCLE A DOTHINE SIDE

### DELINERATOR WITHIN MEDIAN GUARDRAIL SECTION

- DELINERATOR WITHIN MEDIAN GUARDRAIL SECTION