CORRUGATED POLYETHYLENE PIPES UTILIZE METAL END SECTIONS WHICH ARE ONE STANDARD PIPE DIAMETER LARGER THAN CORRUGATED STEEL PIPE. THEREFORE, A SAFETY GRATE FOR A 36 IN. DIA. CORRUGATED POLYETHYLENE PIPE WOULD HAVE DIMENSIONS OF 10 FT. X 7 FT.

BARS SHALL BE GRADE 60, FULL LENGTH, WITH NO SPLICES OR BUTT WELDS. VERTICAL BARS SHALL BE ON TOP. THE HORIZONTAL BARS SHALL BE NO. 11 FOR THE HEAVY-DUTY GRATES. BARS SHALL BE WELDED AT EACH INTERSECTION WITH 4 TACK WELDS OR A DOUBLE FLARE BEVEL GROOVE WELD, AT THE CONTRACTOR’S OPTION. WELDING SHALL MEET THE REQUIREMENTS OF THE NYS STEEL CONSTRUCTION MANUAL, EXCEPT THAT RADIOGRAPHIC INSPECTION WILL NOT BE REQUIRED.

J-BAR HOOKS SHALL BE NO. 6 BAR, OR NO. 4 GALVANIZED IN ACCORDANCE WITH y719-01. J-BAR HOOKS SHOWN INSTALLED PERPENDICULAR TO SLOPE. HOOKS MAY ALSO BE INSTALLED VERTICALLY. J-BAR SHALL BE WITH LONG LEGS ON THE DOWNHILL SIDE.

PAYMENT AREA OF SAFETY GRATES FOR PIPE DIMENSIONS OTHER THAN THOSE LISTED IN THE TABLE WILL BE BASED ON THE PRODUCT OF THE OVERALL LENGTH AND WIDTH.

### NOTES:
1. CORRUGATED POLYETHYLENE PIPES UTILIZE METAL END SECTIONS WHICH ARE ONE STANDARD PIPE DIAMETER LARGER THAN CORRUGATED STEEL PIPES. THEREFORE, A SAFETY GRATE FOR A 36 IN. DIA. CORRUGATED POLYETHYLENE PIPE WOULD HAVE DIMENSIONS OF 10 FT. X 7 FT.
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### TABLE:
<table>
<thead>
<tr>
<th>PIPE DIMENSION (IN.)</th>
<th>REINFORCED CONCRETE PIPE</th>
<th>CORRUGATED METAL PIPE (CORR. HDPE PIPE)</th>
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<tr>
<td>18</td>
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<td>64 X 41</td>
</tr>
<tr>
<td>48</td>
<td>57</td>
<td>71 X 47</td>
</tr>
</tbody>
</table>

**STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION**

**CULVERT-END SAFETY GRATE**

**Dimensions and Payment Areas**

### PLAN

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METAL END SECTION SAFETY GRATE

**SECTION**

REINFORCED CONCRETE END SECTION SAFETY GRATE

### TYPICAL J-BAR HOOK

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