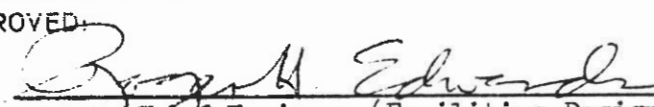


TO:  Director, Preliminary Plan Review Bureau  <b>SUPERSEDED BY EB 97-039</b> <b>EFFECTIVE 7/1/1997</b>	<h1 style="margin: 0;">ENGINEERING INSTRUCTION</h1> <p style="margin: 0;">NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
<b>SUBJECT: PARALLEL BAR TYPE GRATES AND FRAMES</b>	
Subject Code: 7.27-1-655	
Distribution: <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Regions <input type="checkbox"/> Special	Code: <u>      EI 78-21      </u> Date: <u>      4/14/78      </u> Supersedes:
APPROVED:  Deputy Chief Engineer (Facilities Design Subdivision)	

We are transmitting the following herewith:

- 15655.0201 Parallel Bar Type Grates and Frames
- 15655.0202 Parallel Bar Type Grates with Cast Frames

Item 15655.0201 was originally issued as Item 30FP in February 1973 for use with Standard Structure Sheet 73-46. With the advent of the Standard Specifications of January 2, 1973 Standard Sheet 655-8 replaced old Standard Structure Sheet 73-46 and the item number for Parallel Bar Type Grates and Frames was changed to 15655.0201. Also, at this time Item 15655.0202 was issued.

There has been some misunderstanding in the application of these items. Parallel bar type grates are a separate item and must be specified by calling out the Item number where the designer determines they are necessary. The following criteria shall be used when selecting a parallel bar type grate:

1. Areas where the additional hydraulic efficiency is required to insure that the water will not jump or ride over the grate.
2. Areas where debris is a problem. The parallel bar type grates have additional self cleaning ability and therefore, are less likely to plug in areas with fairly heavy debris.

Section 8.04.06 of the Highway Design Manual gives the design criteria in greater detail and the designer should refer to it before making any grate selection.

In accordance with the above, parallel bar type grates must always be specified separately by item number from rectangular or reticuline type grates and the plans and proposals must not contain "notes" allowing them as an equal option.

RHE:WEH:HM

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15655.0201 PARALLEL BAR TYPE GRATES AND FRAMES

Description. Under this work the Contractor shall furnish and install only parallel bar type grates and frames of the type and size shown on the plans and applicable Standard Sheet.

Materials. Subsection 655-2.02 shall apply.

Construction Details. Subsection 655-3.01 shall apply.

Method of Measurement. Subsection 655-4.01 shall apply.

Basis of Payment. Subsection 655-5.01 shall apply.

5/31/73  
1/8/74

15655.0202 PARALLEL BAR TYPE GRATES WITH CAST FRAMES

Description. Under this work the Contractor shall furnish and install only parallel bar type grates and frames of the type and size shown on the plans and applicable Standard Sheet.

Materials. Subsection 655-2.01 shall apply for frame casting and Subsection 655-2.02 shall apply for frame grates.

Construction Details. Subsection 655-3.01 shall apply.

Method of Measurement. Subsection 655-4.01 shall apply.

Basis of Payment. Subsection 655-5.01 shall apply.

5/31/72  
1/8/74