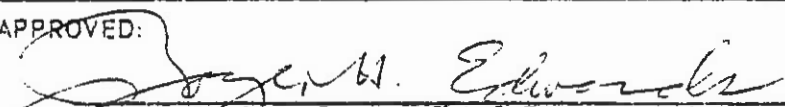


TO:  <p style="text-align: center;"><b>SUPERSEDED BY EI 86-001 EFFECTIVE 5/15/86</b></p>	<h2 style="margin: 0;">ENGINEERING INSTRUCTION</h2> <p style="margin: 0;">NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
Distribution:                      31 Main Office                      33 Regions                      34 Special	SUBJECT:    PVC COATED GALVANIZED GABIONS  Subject Code:    7.27-1-620
APPROVED:  R. H. EDWARDS, Deputy Chief Engr., Facilities Design Div.	Code: <u>85-39</u> Date: <u>7-19-85</u> Supersedes:    EI 82-36

Until recently, the use of PVC coated galvanized gabion baskets on Federally-aided construction projects has been disapproved by the FHWA because the State's specification for them did not contain detailed testing procedures of their plastic coating. The attached modifications to the specifications for them include the required procedures and can be used in Federally aided construction or in state construction.

Items 620.10 Galvanized Gabions and 620.11 PVC Coated Galvanized Gabions are being added to the estimate handling system as Pay Items. Items 15620.1001 and 15620.1101 will be deleted. EI 82-36 which distributed them is superseded by this instruction.

The following policy is continued from the superseded EI and remains a valid statement of the design policy for the selection of gabions:

"All designed walls shall be chosen based on an economic study of the wall types available for each specific location. When that study indicates that gabions are appropriate, the designers will determine which type gabion shall be required, based on the following criteria:

- a. The P.V.C. coated gabion should be used where there are heavy concentrations of salt, such as near heavily salted roads, salt water, or where other corrosive chemicals will be encountered.
- b. The Galvanized only type should be used where there is anticipated abrasive action because of its heavier gage wire, or where no salt or other corrosive chemicals will be encountered.
- c. When both conditions exist or when the project designer would like clarification on what type of gabion to use, the designer should contact a Department Soils Engineer."

The Final Plan Review Bureau will insert the attached note modifying the Standard Specifications into projects calling for gabions under items 620.10 or 620.11. Items 15620.1001 and 15620.1101 will be deleted starting with the letting of January 30, 1986.

## GABIONS

Make the following changes to the Standard Specifications of January 2, 1985.

### Page 6-53

Add the following Subsection after SS620-1.05 Concrete Block Paving Subsection 620-1.06 Gabions. Gabions shall consist of open wire mesh baskets, filled with stones.

### Page 6-54

Add the following Subsection after SS620-2.06. Concrete Block Paving.

"SS620-2.07 Gabions. The materials used in this work shall conform to the requirements of the following subsection of Section 700-Materials."

Gabions . 712-15

### Page 6-56

Add the following Subsection after SS620-3.06 Concrete Block Paving.

"SS620-3.07 Gabions. Each gabion unit shall be assembled by binding together all vertical edges with wire ties on approximately six inch spacing or by a continuous piece of connecting wire stitched around the vertical edges with a coil about every four inches. Empty gabion units shall be set to line and grade as shown on the plans. Wire ties or connecting wire shall be used to join the units together in the same manner as described above for assembling. Internal tie wires shall be uniformly spaced and securely fastened in each outside cell of the structure or where ordered by the Engineer. When gabions are being placed as slope protection the cross-connecting wires may be deleted if ordered by the Engineer.

A standard fence stretcher, chain fall, or iron rod may be used to stretch the wire baskets and hold alignment.

The gabions shall be filled with stone carefully placed by hand or machine to assure alignment and avoid bulges with a minimum of voids. After a gabion has been filled, the lid shall be bent over until it meets the sides and edges. The lid shall then be secured to the sides, ends, and diaphragms with the wire ties or connecting wire in the same manner described above for assembling."

Under SS620-4.01 add the following: "Gabions" between the words "Grouted Rip-Rap" and the word "and".

