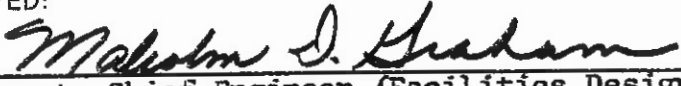


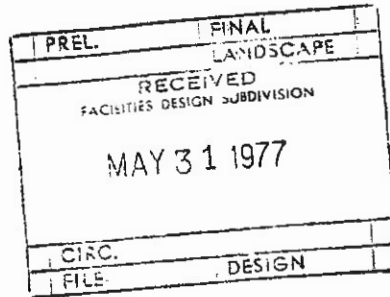
<p>TO: MODIFIED BY EI 77-057 EFFECTIVE 12/23/1977 Director, Preliminary Plan Review Bureau</p> <p>SUPERSEDED BY EB 97-006 EFFECTIVE 2/14/1997</p>	<h1>ENGINEERING INSTRUCTION</h1> <p>NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
<p>Distribution: <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Regions <input type="checkbox"/> Special</p>	<p>Code: <u> EI 77-23 </u></p>
<p>APPROVED:  <u>Deputy Chief Engineer (Facilities Design)</u></p>	<p>Date: <u> 5/13/77 </u></p> <p>Supersedes:</p>

Effective immediately, Standard Sheet 619-2R1 "Maintenance and Protection of Traffic" is rescinded and under no circumstances shall wooden barricades be used from now on. The Main Office will insert the following into the PS&E of each project requiring them:

1. Item 15619.0451 "Type III Breakaway Barricade."
2. Special Note "Sign Details for Construction Projects."

A copy of each insert is attached.

MDG:WEH:RS
 Attachment



15619.0451 TYPE III BREAKAWAY BARRICADE (ALTERNATE A OR ALTERNATE B)

Description. The Contractor shall furnish, install, move, remove, and maintain Type III Breakaway Barricades (Alternate A or Alternate B) where indicated on the plans or as directed by the Engineer.

Materials. All materials used for Type III Breakaway Barricades shall conform to the materials details shown on the detail drawings for the barricade used.

Water (H₂O) calcium chloride (Ca Cl₂) mixture shall be used for ballast in the Alternate A Barricade and shall be capable of resisting freezing to - 40°F (- 40°C). Calcium chloride anti-freeze will not be required from May 15 to October 1 and these dates may be extended by the Engineer with a written notice to the Contractor.

Construction Details. The Contractor shall furnish, set up, move, and remove Type III Breakaway Barricades as required or directed by the Engineer.

The Type III Breakaway Barricade shall be fabricated to the dimensions shown on the drawings. The aluminum face panels shall be attached to the plastic frame with four 1" No. 14 pan head metal screws for each panel.

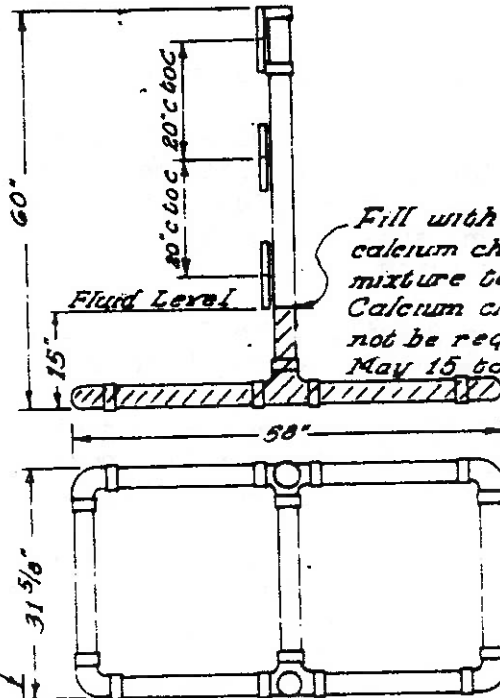
Method of Measurement. Type III Breakaway Barricades will be computed for payment by the number of linear feet, measured to the nearest foot, along the face of each barricade unit installed. No payment will be made for spaces between barricade units.

Basis of Payment. The unit price per linear foot shall include the cost of all material, equipment, and labor necessary to erect, maintain, move, and remove Type III Breakaway Barricades. Whenever barricades are moved to a new location, payment will be made in the same manner as if it were a new barricade. Minor movement of the barricades from one side of the roadway to the other, or rearrangement within a work area will not be considered as movement to a new location and will not entitle the contractor to additional payment.

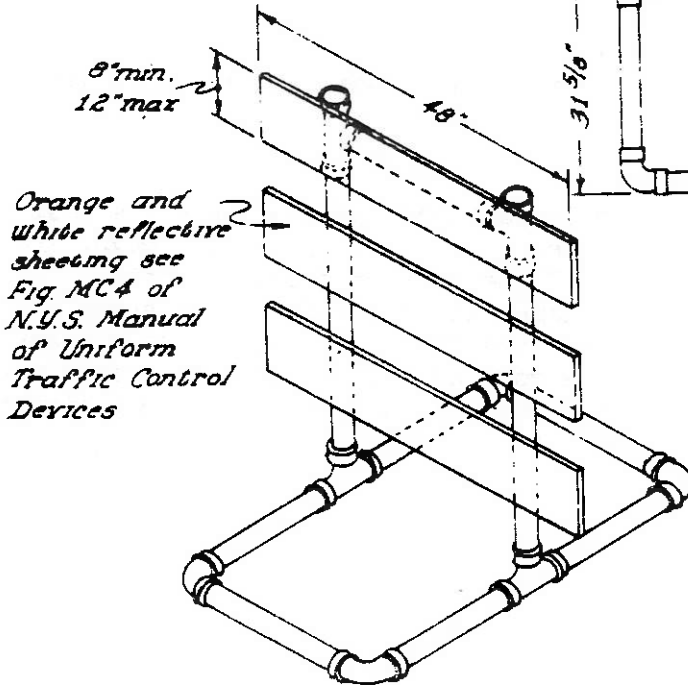
4/8/77

PART SCHEDULE

- 25' - 3" PVC CONDUIT
- 4 - 3" PVC 90° ELBOWS
- 4 - 3" PVC TEES
- 3 - 8" min.
18" max x 48" x .025" ALUM.
FACE PANELS
- 12 - 1" NO 14 PAN HEAD
METAL SCREWS



Fill with water (H_2O)
calcium chloride ($CaCl_2$)
mixture to this level.
Calcium chloride will
not be required from
May 15 to October 1.



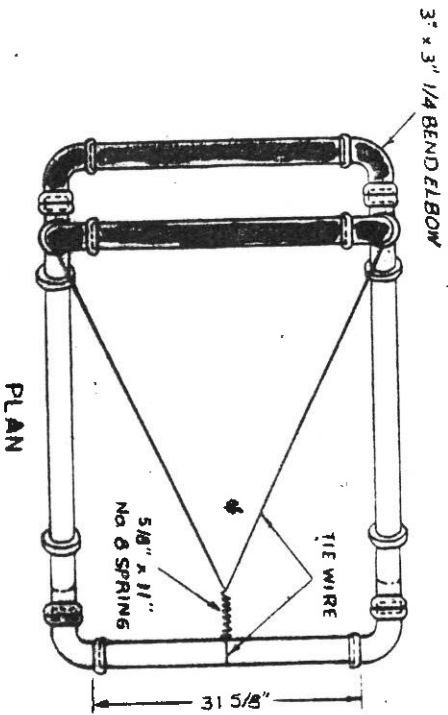
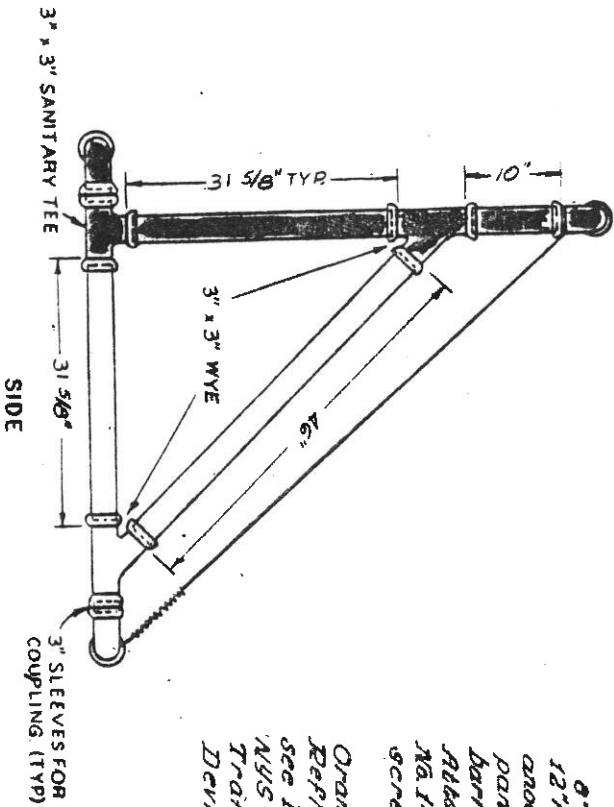
Orange and
white reflective
sheeting see
Fig. MC4 of
N.Y.S. Manual
of Uniform
Traffic Control
Devices

*All Joints Glued

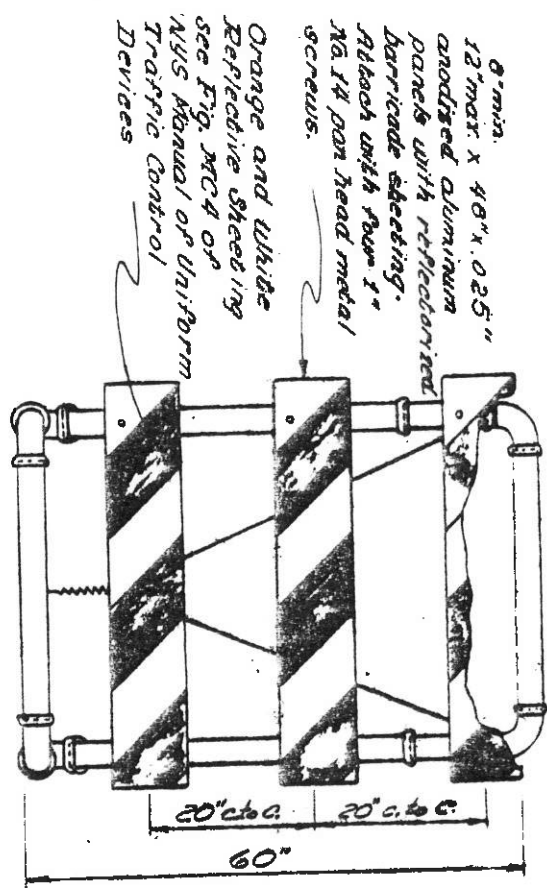
NOTES:

1. All pipe shall be Polyvinyl Chloride (PVC) pressure rated pipe SDR 21 or SDR 26 ASTM D2241
2. Joint fittings shall be PVC ASTM D2665
3. All pipe shall be white. White fittings are preferred, black may be used
4. Solvent Cement ASTM D2564 Type I
5. Aluminum Face Panels N Y S.D.O.T. 730 1
6. Reflective Sheeting N Y S D O T 730 05 01 or 730-05 02
7. Pan Head Metal Screws N Y S D O T 716 04

(Not to Scale)
**TYPICAL TYPE III BREAKAWAY BARRICADE UNIT
ALTERNATE "A"**



TYPICAL TYPE III BREAKAWAY BARRICADE UNIT
 ALTERNATE "B"
 Not to Scale

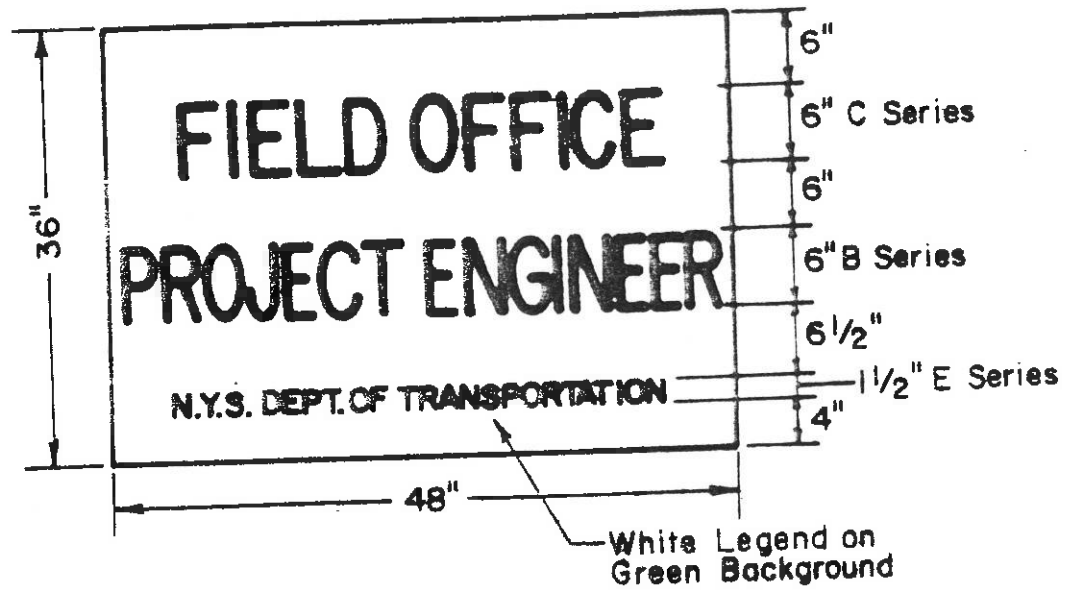


- NOTES:
1. All pipe shall be Polyvinyl Chloride (PVC) pressure rated pipe SDR 21 or SDR 26 ASTM D2241.
 2. Joint fittings may be PVC, ASTM D2665 or Acrylonitrile Butadiene Styrene (ABS) ASTM D2661 (Drainage Waste and Vent).
 3. All pipe shall be white. White fittings are preferred, black may be used.
 4. All joints shall be free to separate upon vehicle impact.
 5. Shaded conduit to be tied together with rope threaded into pipe stretch. Use 3/16" No. 6 solid braided nylon or equivalent.
 6. A fixed frangible pavement connection is preferred. Sand bags may be substituted.
 7. Tie Wire 8 gage Aluminum or Galvanized Steel.
 8. Aluminum Face Panels N.Y.S.D.O.T. 730-01
 9. Reflective Sheeting N.Y.S.D.O.T. 730-05.01 or 730-05.02.
 10. 1" No. 14 Pan Head Metal Screws N.Y.S.D.O.T. 715-04

8" min.
 12" max. x 48" x .025"
 anodized Aluminum
 panels with reflectorized
 barricade sheeting.
 Attach with four 1"
 No. 14 pan head metal
 screws.

Orange and White
 Reflective Sheeting
 See Fig. MCA of
 NYS Manual of Uniform
 Traffic Control
 Devices

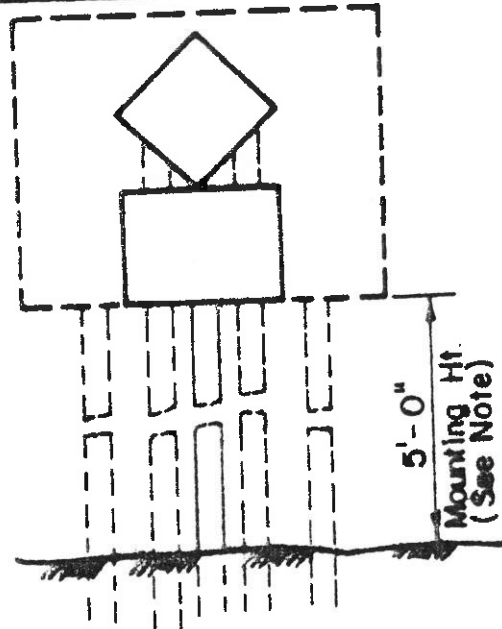
SIGN DETAILS FOR
CONSTRUCTION PROJECTS



MOUNTING HEIGHT

Note: All signs should be mounted so that the bottom of the sign or the bottom of the supplemental sign, if required, is five feet (5 ft.) above the pavement.

When special conditions warrant it, the signs shall be mounted at a greater height to fit the situation.



TYPICAL EXAMPLE
Not to Scale