

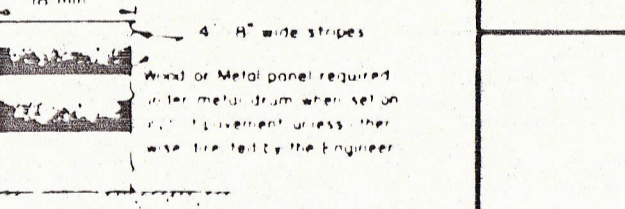
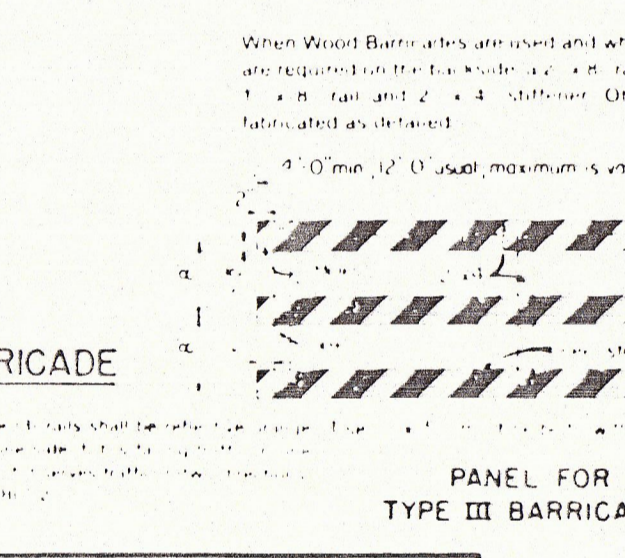
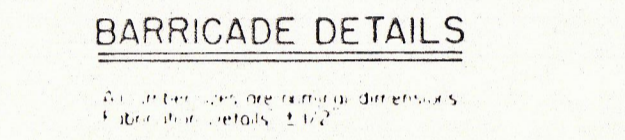
When a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided for the channel striping may slope downward in both directions from the center of the barricade.

Striping should cover the full width of the rail. Striping of rails, panels and gates for the right side of the roadway is shown above. For the left side of the roadway, striping should slope downward to the right.

For all types of barricades with rails less than 3'-0" long, stripes 4" wide shall be used.

The 8" rail width is a nominal dimension for rails made of lumber.

Identification markings may be shown only on back side of barricade rails.



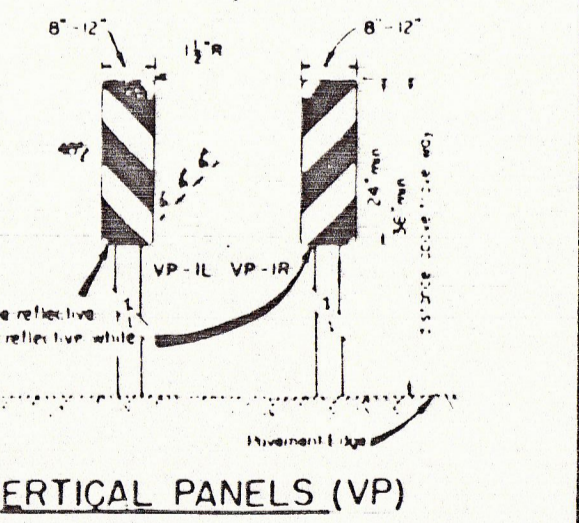
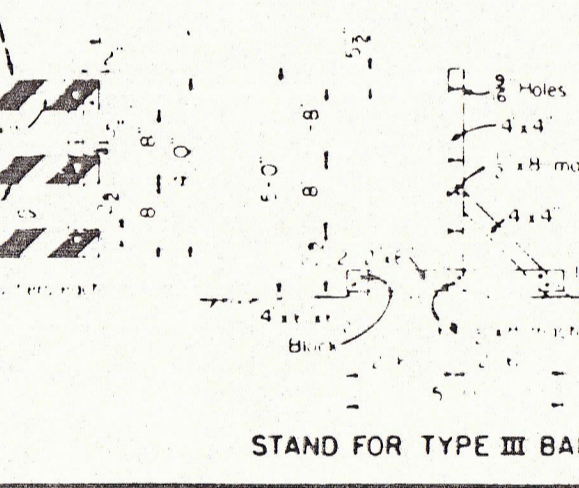
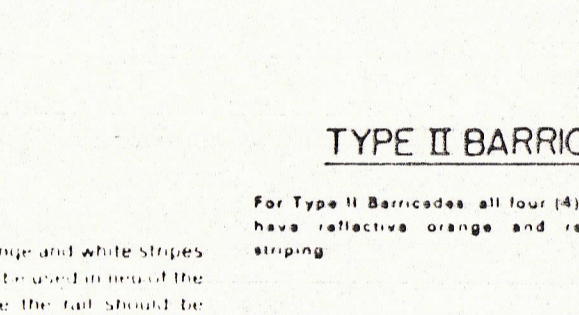
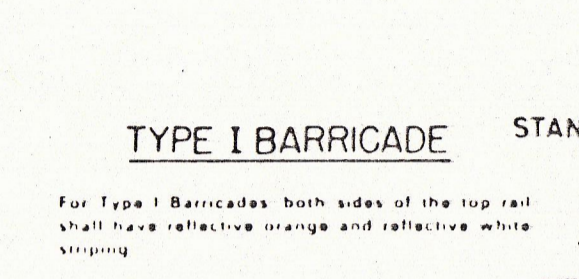
Vertical Panels (VP) are normally used as channelizing devices to indicate tangent or nearly tangent roadway alignment where good tangent curve of a device is needed in daytime as well as at nighttime. In addition, vertical panels should be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive day and night delineation may be required. Vertical panels should be mounted back to back at the edge of cuts adjacent to two-way two-lane roadways. Stripes should always slope downward toward the travel way.

**BARRICADE NOTES**

Channelizing devices other than barricades should normally be used for channelization purposes.

Barricades should normally be placed perpendicular to the traffic flow. Other channelizing devices, such as drums, vertical panels or portable barriers, should be used where needed to separate traffic from the work area. In all cases, the barricades should be so located as to most advantageously warn and direct traffic.

Barricades may be designed and constructed from wood, PVC pipe or any other suitable material in a manner approved by the Engineer. The construction details shown herein are typical and are suggested details for wood and PVC pipe support systems for barricades. The details of rail width and striping, number and spacing of rails, minimum length and height (above pavement) of rails must be adhered to when alternate designs are used.

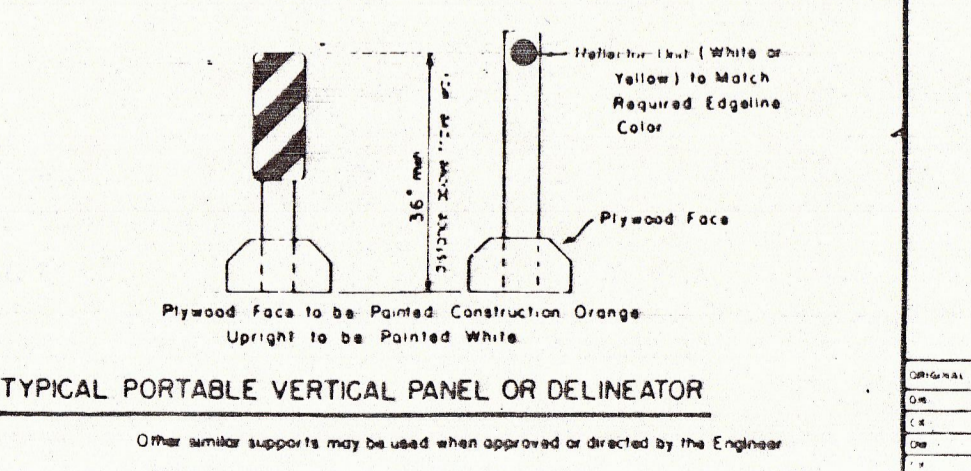
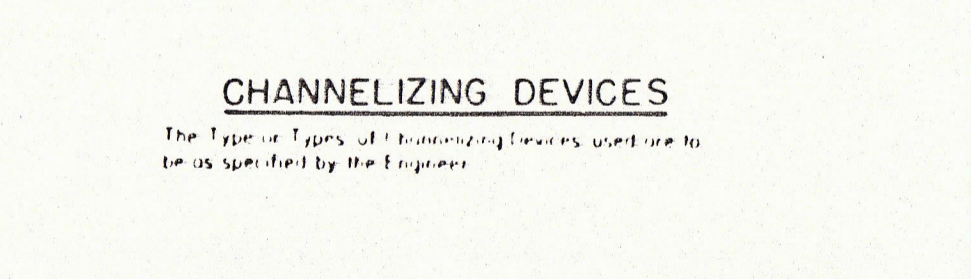
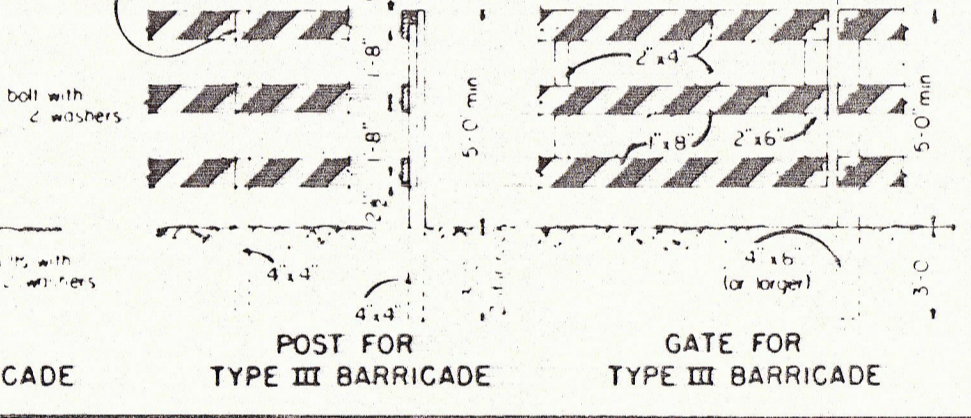
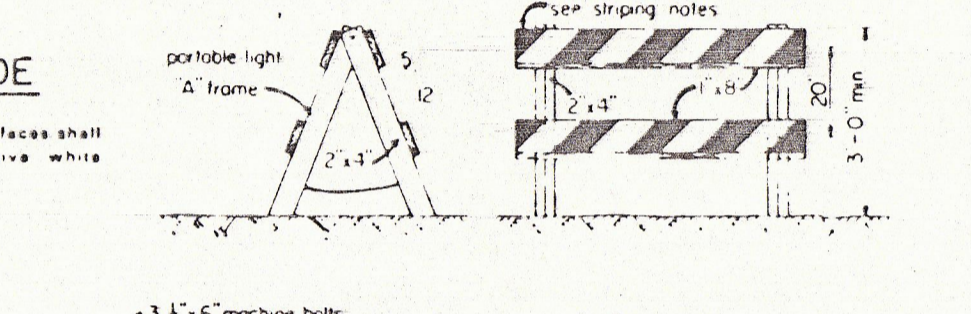
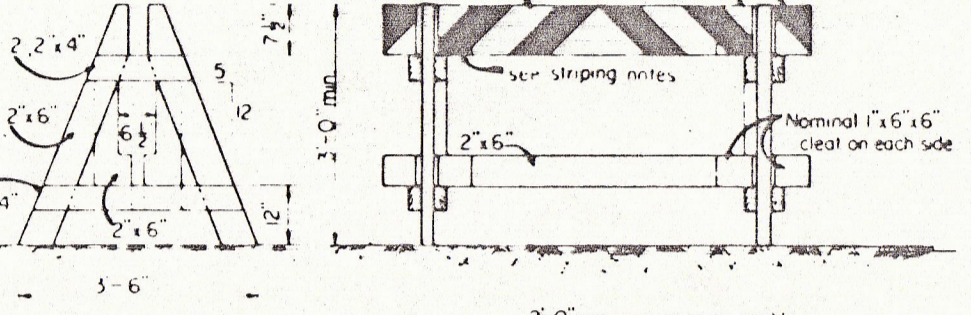
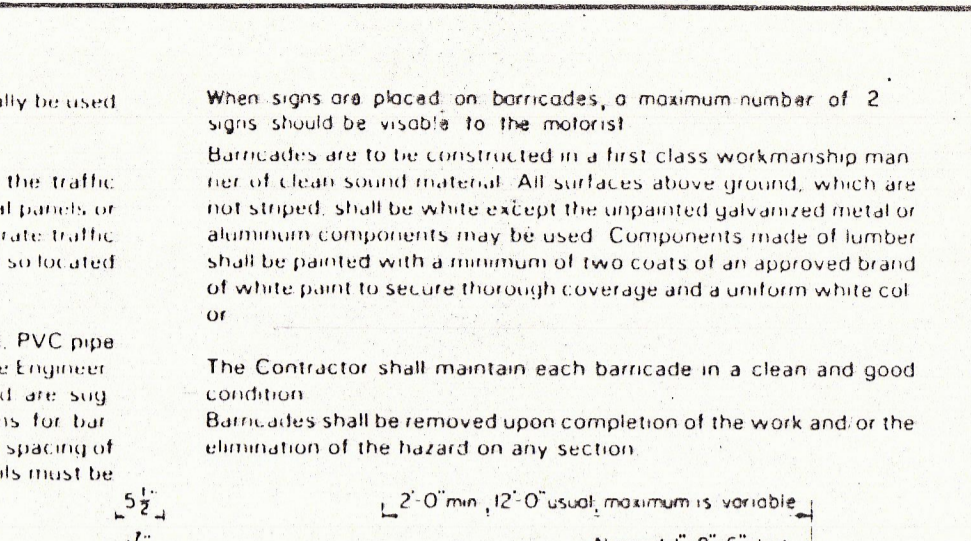


When signs are placed on barricades, a maximum number of 2 signs should be visible to the motorist.

Barricades are to be constructed in a first class workmanship manner of clean sound material. All surfaces above ground, which are not striped, shall be white except the unpainted galvanized metal or aluminum components may be used. Components made of lumber shall be painted with a minimum of two coats of an approved brand of white paint to secure thorough coverage and a uniform white color.

The Contractor shall maintain each barricade in a clean and good condition.

Barricades shall be removed upon completion of the work and/or the elimination of the hazard on any section.



**GENERAL NOTES**

**REFLECTORIZATION**

The reflectorized white and reflectorized orange stripes for barricades, drums and vertical panels shall be constructed of retroreflective sheeting in conformance with project specifications and shall be maintained to meet the appearance, color, and reflectivity requirements of those specifications.

**WARNING LIGHTS**

Warning lights are portable lens directed, enclosed lights. The color of the light emitted shall be yellow. The lights should be mounted at a minimum height of 36 inches to the bottom of the lens.

Type A Low Intensity Flashing Warning Lights are commonly mounted on barricades, other channelizing devices or advance warning signs and are intended to warn the driver that he is approaching a hazardous area. Their use shall be as specified elsewhere in the plans, on Sheets BC(1) and BC(2), or as directed by the Engineer.

Type B High Intensity Flashing Warning Lights are normally used at or approaching extremely hazardous site conditions within the construction area. They may be mounted on barricades, signs or other supports. As these lights are effective in daylight as well as dark, they are designed to operate 24 hours per day. Their use should be specified elsewhere in the plans or as directed by the Engineer. Flashing warning lights shall not be used in a series.

Type C Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices used to delineate the edge of the traveled way on detour curves, lane changes, lane closures, shoulder drop-offs, and other similar conditions or hazards. The series of Steady Burn Lights should have a Type B High Intensity Flashing Warning Light at the beginning and end of the series to mark the hazard. Where Steady Burn Lights are to be used for delineation, the contractor may at his option, utilize delineators.

Contractors shall furnish a copy of a certification from the manufacturer of the lights that the warning lights meet the requirements of the ITE Standard for Flashing and Steady Burn Warning Lights as contained in the latest edition of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways.

**DELINEATORS**

Delineators are normally used to indicate roadway alignment where improved nighttime visibility is needed but other roadway features are sufficient for daytime alignment. They should generally be used on high hills and horizontal and vertical curves where only nighttime delineation is needed. Delineators, when required for temporary use to control traffic through construction areas, will be considered subsidiary to the stem BARRICADES, SIGNS AND TRAFFIC HANDLING. Delineators shall meet the material requirements of the project specifications. When used, delineators on the right side of the roadway facing traffic shall be white. The color of delineator construction on the left edge of divided streets and highways and one-way roadways shall be yellow.

**SPACING OF DELINEATORS**

Spacing of Delineators on curves should be according to the Table below. A spacing of delineators on tangent sections should normally be between 100 and 200 feet with the closer spacing for lower speeds and greater spacing for higher speeds.

RADIUS OF CURVE (FEET)	SPACING (FEET)									
	50	100	200	250	300	350	400	500	600	700
MINIMUM SPACING (FEET)	20	30	45	60	75	90	105	120	135	150

**STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION**

**BARRICADE AND CONSTRUCTION STANDARDS**

BARRICADE DETAILS  
DELINEATORS & VERTICAL PANELS  
DRUMS & CONES  
REFLECTORIZATION  
WARNING LIGHTS

**BC(3)-82**

ORIGINAL DRAWING DATE: 1-1-82

DATE: 1-1-82

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

PROJECT: [Project Name]

SECTION: [Section Name]

DATE: [Date]

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