

CONSTRUCTION SIGN NOTES

Construction signs shall be made from wood or metal. The designation of metal and wood as primary materials for signs shall not be interpreted to exclude other suitable rigid materials now or hereafter available.

Wood for signs shall be waterproof resinbonded exterior grade plywood, Douglas Fir Plywood Association, or equal, of minimum 1/2 inch thickness. All wood signs made up of 2 or more pieces shall have one or more cleats, 1/2 inch by 6 inch plywood fastened to the back of the sign and extending fully across the sign. On plywood signs cleats shall be used as splice plates running the length of the joints. In localities where untreated wood rots rapidly, it is recommended that wood used for signs be treated either with chromated zinc chloride, Wolman salts, or pentachlorophenol.

Aluminum sign blanks shall have a minimum thickness of 0.080". Steel sign blanks shall have a minimum thickness of 14 gauge.

On secondary roads or city streets where speeds are low, smaller size construction warning signs may be used with the approval of the Engineer and if the sign size is in accordance with the "Typical Construction Warning Sign Size and Spacing Chart" shown on page 6B-2.2 of the Texas MUTCD.

ReflectORIZED signs shall be constructed of retro-reflective sheeting and shall be maintained to meet the requirements for appearance, color, and retro-reflectivity of the Item FLAT SURFACE FLEXIBLE REFLECTIVE SHEETING in the Department's specifications. Signs shall comply with the general requirements specified in the "Standard Specifications for Construction of Highways, Streets and Bridges" in effect at the time of contract award.

All sign lettering shall be clear, open rounded type capital letters as approved by the National Committee on Uniform Traffic Control Devices and its sponsoring agencies, and as published by the Federal Highway Administration. Signs and lettering shall be of first class workmanship equivalent to that of the Department's standard signs.

Standard signs shall be used as required by Sheets BC (1) thru BC (7), the plans, or as directed by the Engineer to regulate, warn, and guide traffic. All sign erection and usage shall be in strict accordance with the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways". The Contractor shall maintain each sign in a clean and good condition.

Signs shall be removed upon completion of the work. Individual warning signs shall be removed, turned away from the view of traffic, or covered whenever the specific danger of which the particular sign warns has ceased to exist, either permanently or temporarily. The sign must be promptly replaced, turned into view, or uncovered when the situation again becomes a potential danger.

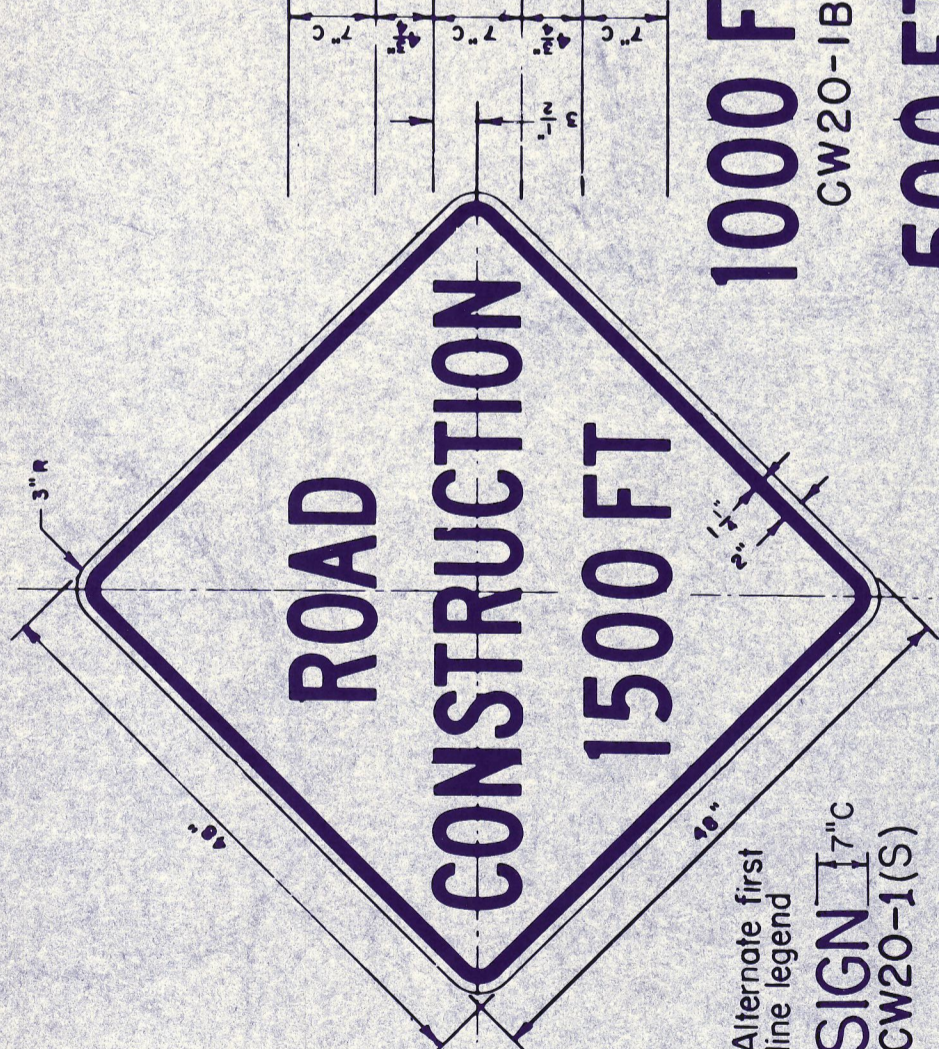
Signs erected on portable supports for use on construction projects normally mean signs which are used during the day to warn or guide traffic through and/or around the actual construction area, but at the end of the workday such signs are either removed or turned away from the view of traffic. Portable supports shall be as shown on this sheet or as approved by the Engineer. The bottom of the sign shall be a minimum of one (1) foot above the pavement edge. Signs required for nighttime usage should not normally be mounted on portable supports, except when approved by the Engineer.

Signs erected on fixed supports for use on construction projects normally mean signs that are to remain in place for both day and night usage to regulate, warn and guide traffic in advance of and within the limits of the project including the crossroad approaches. However, under certain conditions, such as where a sign may be required for a few days duration and then is no longer needed or where a sign is moved from location to location every few days or where it is not practical or desirable to provide a fixed mounting, such signs may be erected on a temporary type of support. Temporary supports shall be as shown on this sheet or as approved by the Engineer. Signs erected on temporary supports should be at a minimum height of 3 feet. Signs erected on fixed supports should be at a minimum height of five (5) feet in rural areas and seven (7) feet in urban areas and other rural locations where sight distance obstructions are present. Regardless of the type of support used, regulatory signs should not be erected at height less than the 5 or 7 foot minimum specified above unless a lower height is approved by the Engineer. Posts for fixed supports should be set in the ground without concrete footings.

Where portable or temporary supports require the use of weights to keep a sign or barricade from turning over, the use of some type of sandbag is recommended. The use of pieces of concrete, rocks, iron, steel or other solid objects will not be permitted.

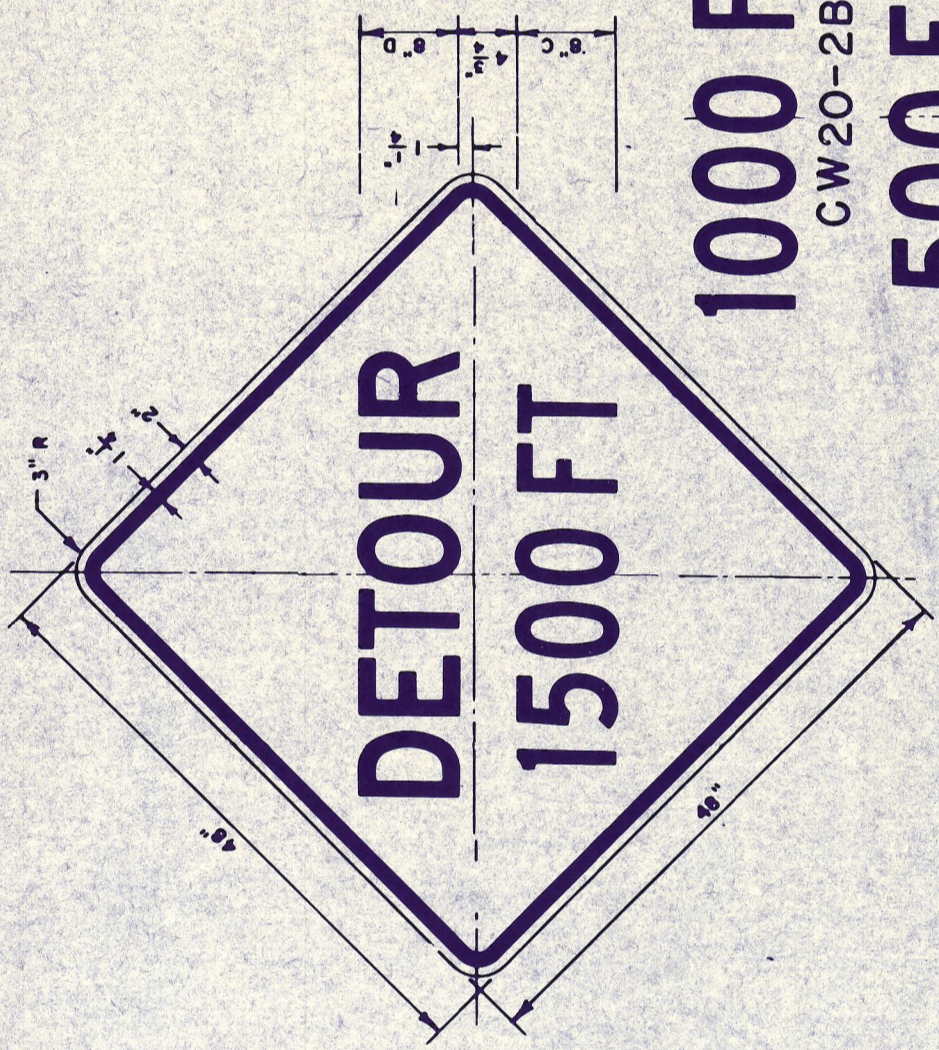
All traffic control devices shall conform with the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways".

Contractors may use either the sign designs shown on sheets BC-(4), BC-(6), BC-(6) and BC-(7) or those sign designs shown in the U.S. Department of Transportation's latest edition of "Standard Highway Signs", when the required sign is illustrated in the "Standard Highway Signs" book. All construction type signs provided for in PART VI of the Texas MUTCD, but not detailed in the plans, may be used when so directed by the Engineer.

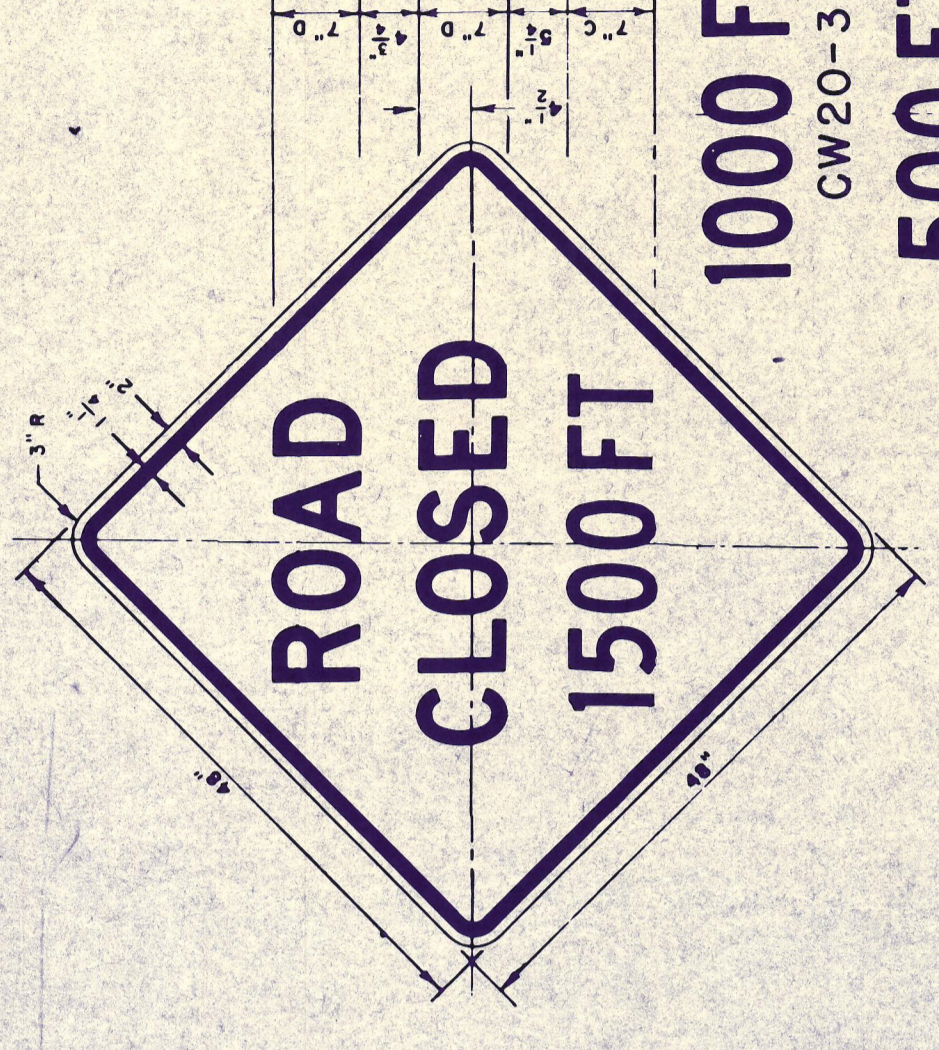


Alternate first line legend
SIGN 17c
CW20-1(S)
LIGHTING 16c
CW20-1(L)
BRIDGE 16c
CW20-1(B)
SIGNAL 16c
CW20-1(SG)

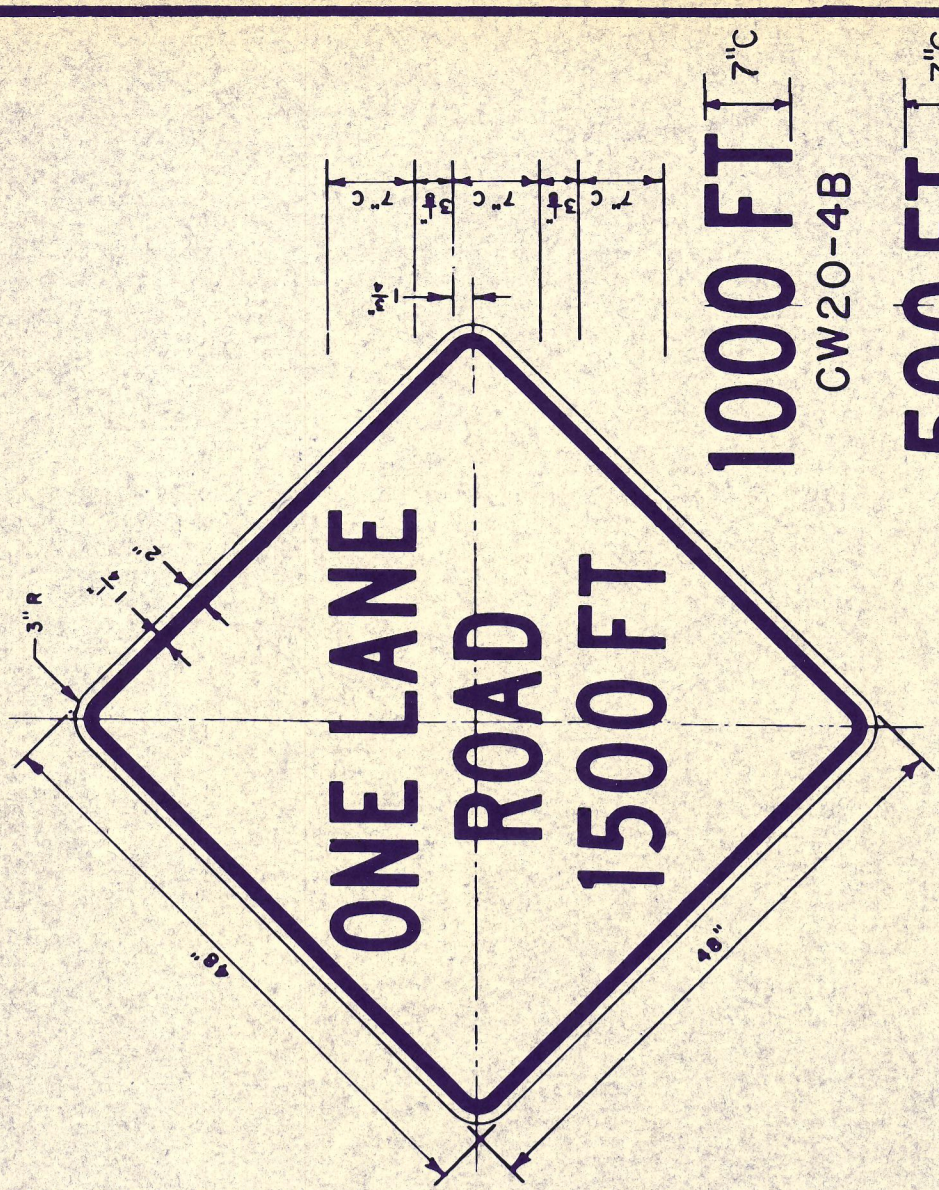
Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective



Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective



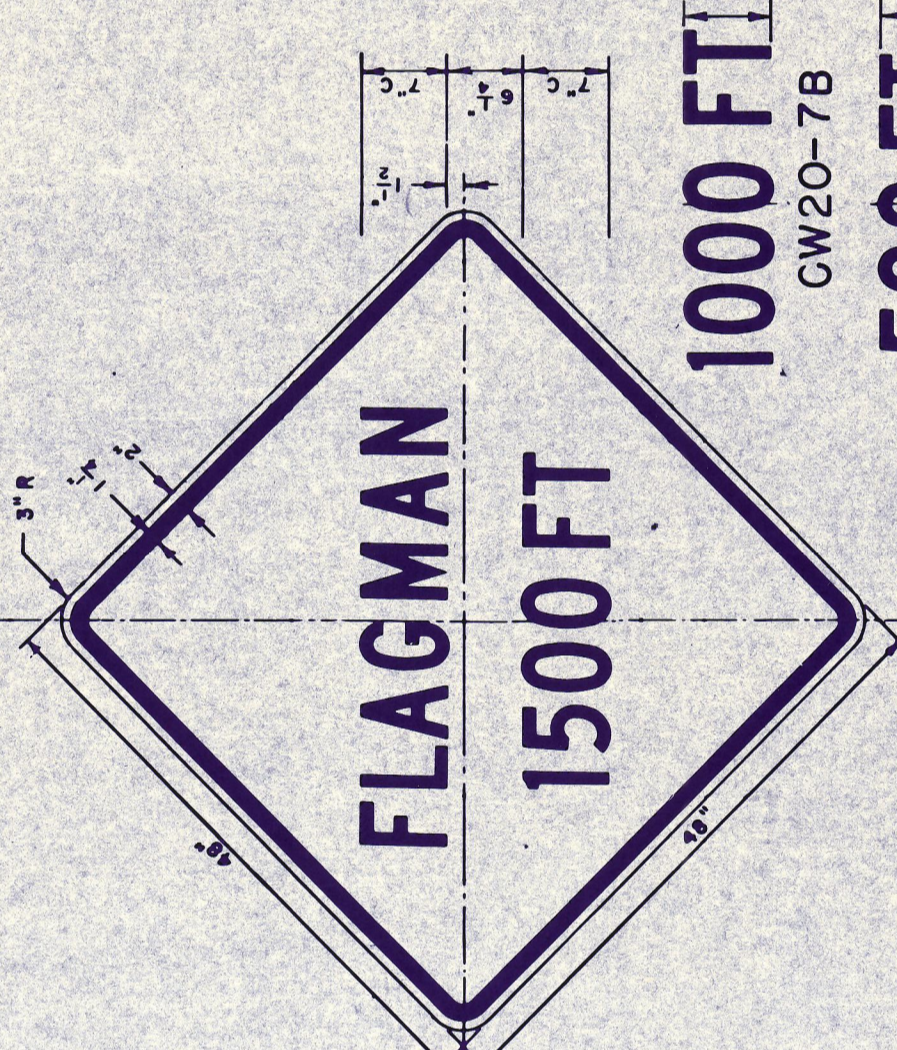
Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective



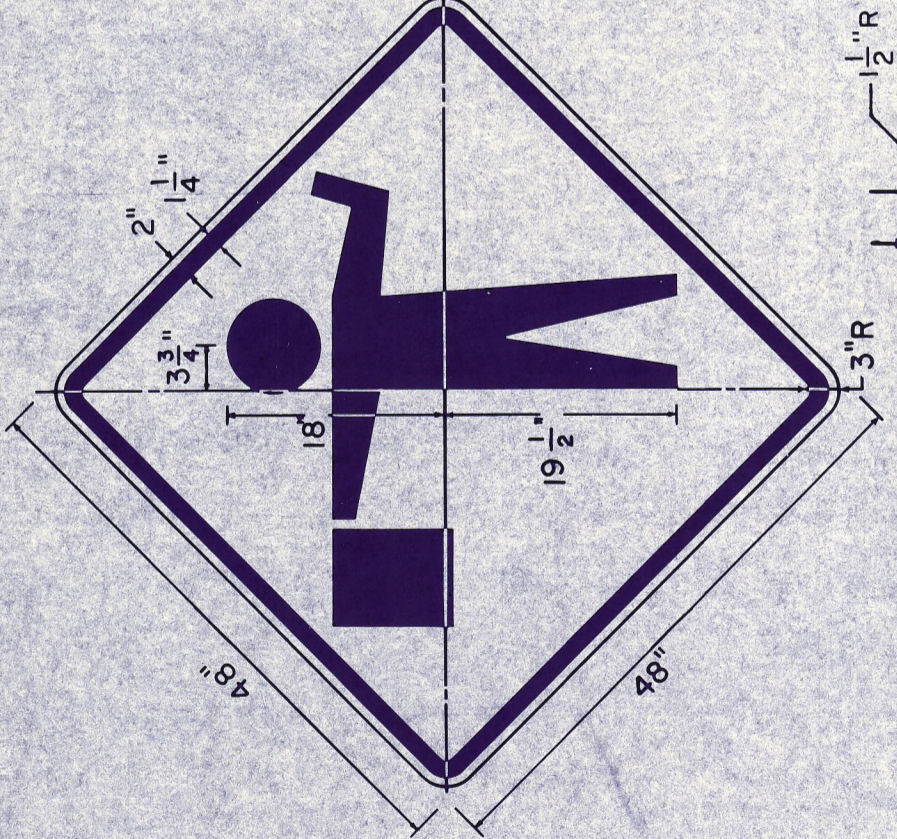
Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective



Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective

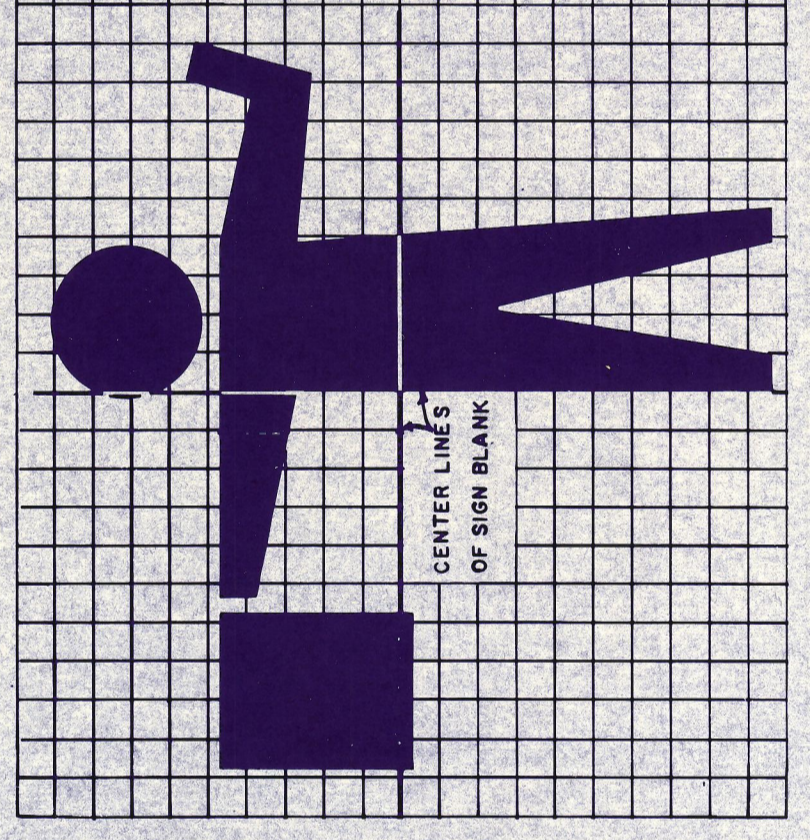


Letters - Black
Numerals - Black
Border - Black
Background - Orange Reflective



CW20-7a
48\"/>

Symbol - Black
Background - Orange Reflective

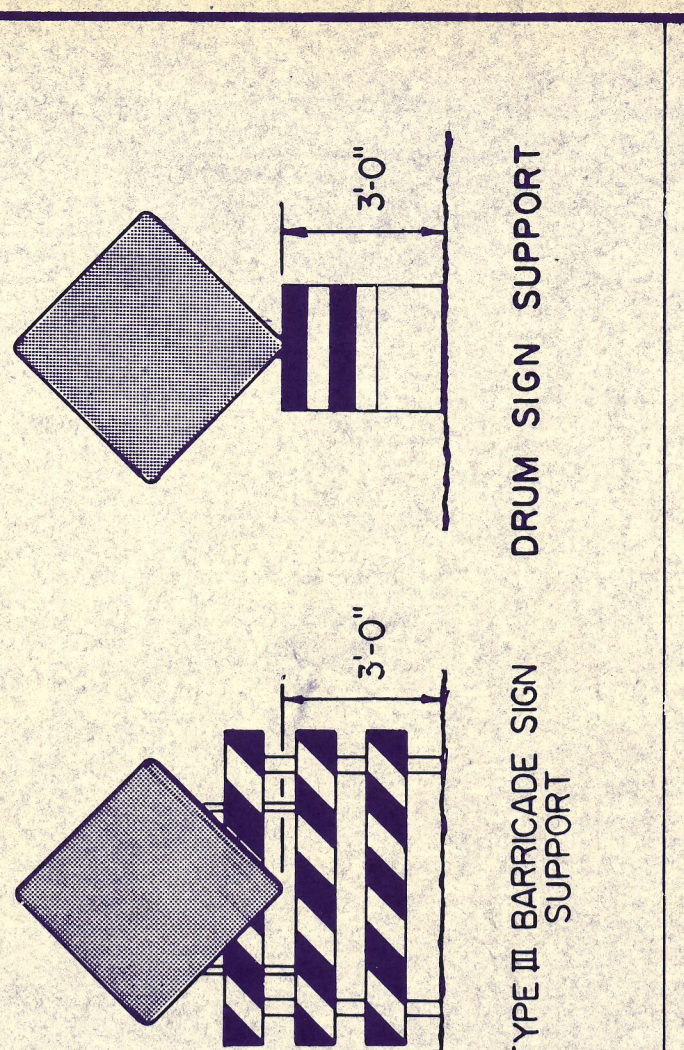
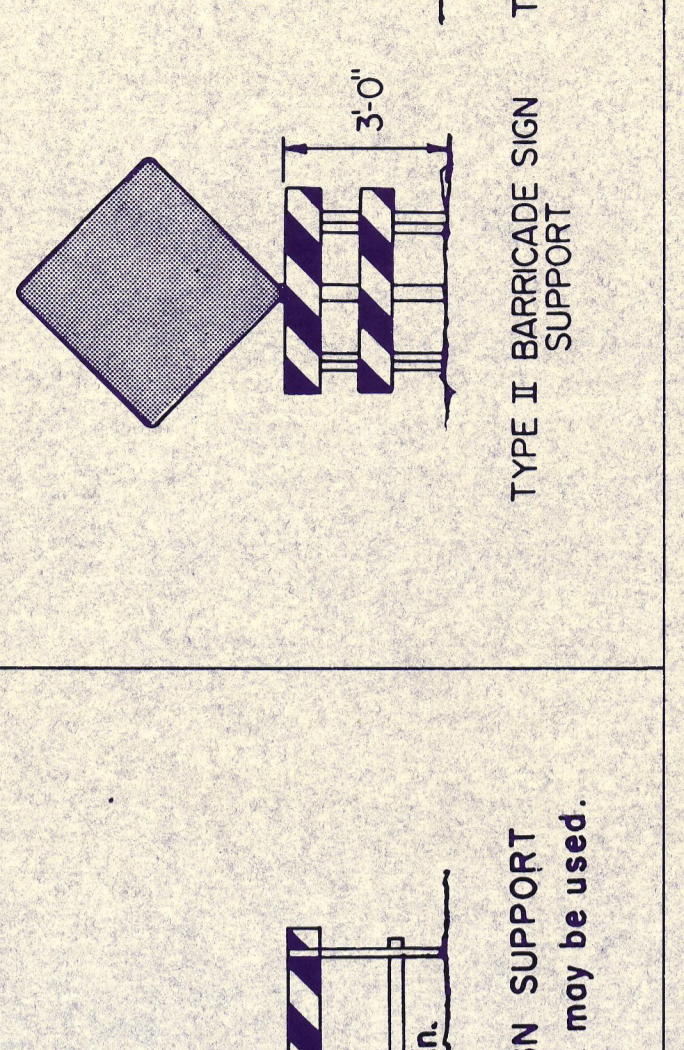


The CW20-7 FLAGMAN (1500 FT, 1000 FT, 500 FT, or AHEAD) word message sign may be used as an alternate to the CW20-7a Flagman Symbol sign.

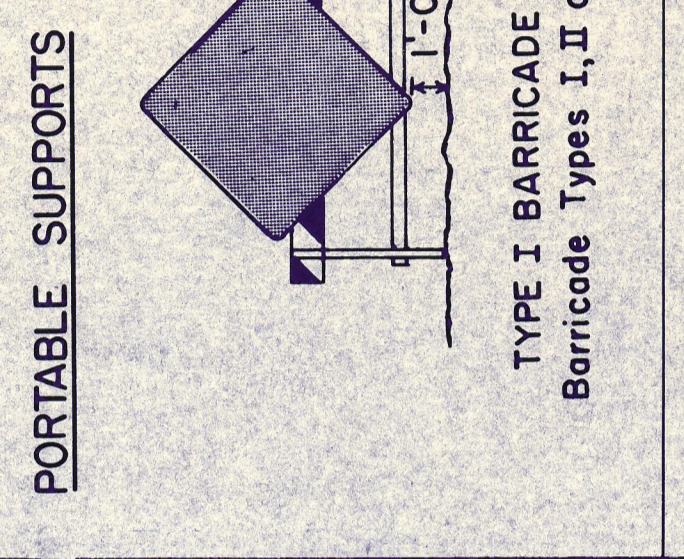
TYPICAL SIGN SUPPORTS

Other types of sign supports may be used with approval of the ENGINEER

PORTABLE SUPPORTS



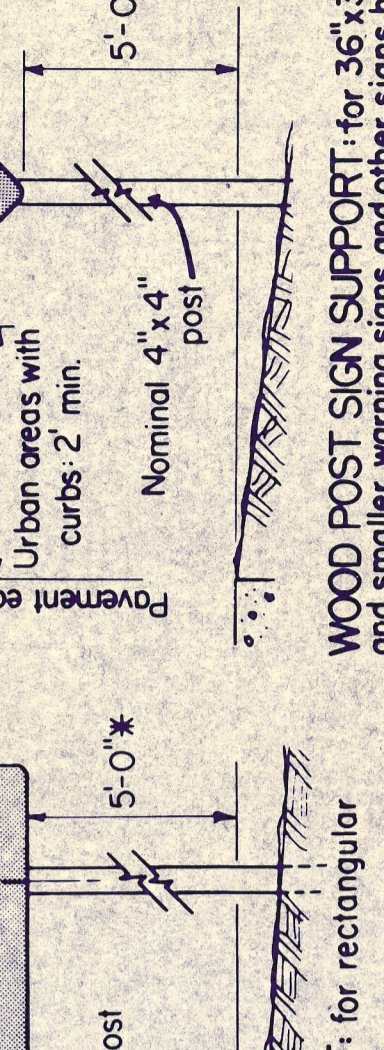
FIXED SUPPORTS



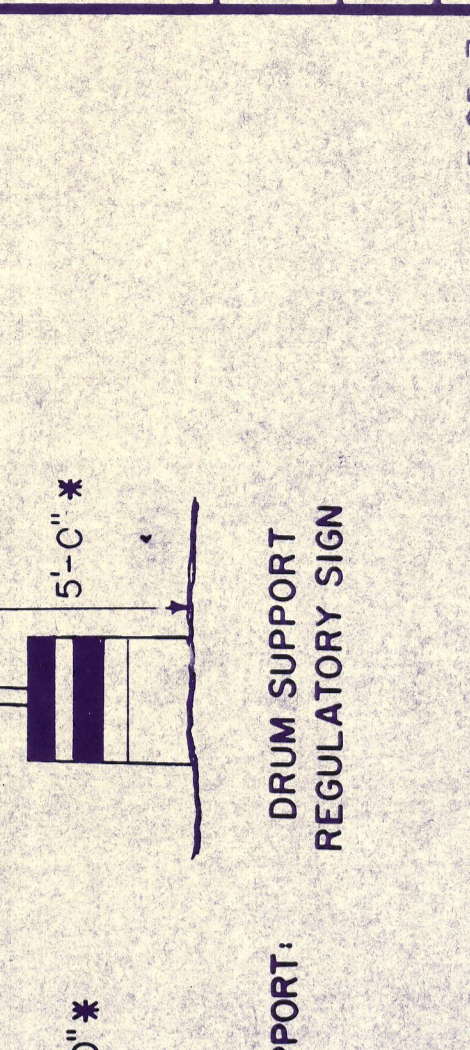
* Where sight distance obstructions are present, or where signs are erected in urban areas, the 5'-0\"/>



WOOD POST SIGN SUPPORT for 36\"/>



WOOD POST SIGN SUPPORT for 48\"/>



TEXAS STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
STANDARD DRAWING BC(5)--81

| | | | |
|--------------------------------------|----------|-------------------------|------|
| NO. | REVISION | BY | DATE |
| TEXAS TURNPIKE AUTHORITY | | | |
| DALLAS NORTH TOLLWAY | | | |
| BARRICADE AND CONSTRUCTION STANDARDS | | | |
| HNTB | | SECTION VII | |
| DRAWN | DATE | CHECKED | DATE |
| | | STANDARD DRAWING NO. 54 | |