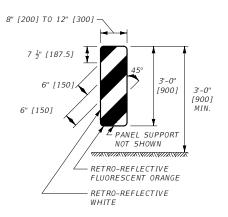


TYPE 2 OBJECT MARKER

#### TYPE 2 OBJECT MARKER NOTES:

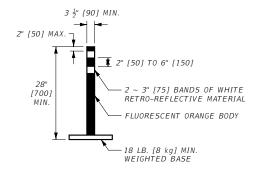
- ① USE TYPE 2 OBJECT MARKERS TO DELINEATE ROADSIDE CONSTRICTIONS OF THE CLEAR ZONE (i.e. DROP OFFS, OBSTACLES, ABRUPT CHANGES IN ROADWAY ALIGNMENT, ETC.)
- 2 DO NOT USE TYPE 2 OBJECT MARKERS AS CHANNELIZING DEVICES.
- 3 ATTACH PANELS TO POSTS AT BOTH TOP AND BOTTOM HOLE LOCATIONS.
- 4 USE RETRO-REFLECTIVE SHEETING AS PER THE CONTRACT.
- \* REDUCE OR ELIMINATE THE 2'-0" [0.6 m] DISTANCE WHEN OBSTACLE OR HAZARD IS LESS THAN 2'-0" [0.6 m] FROM THE EDGE OF THE DRIVING LANE.



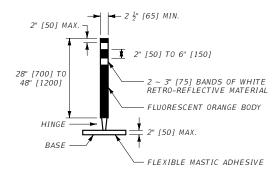
# PORTABLE VERTICAL PANEL (VP-1R SHOWN. REVERSE FOR VP-1L.)

#### PORTABLE VERTICAL PANEL NOTES:

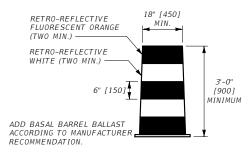
- ① USE PORTABLE VERTICAL PANELS AS CHANNELIZING DEVICES ONLY. DO NOT USE PORTABLE VERTICAL PANELS TO DELINEATE ROADSIDE CONSTRICTIONS OF THE CIFAR ZONE
- ② VERTICAL PANELS DESIGNATED "R" ARE PLACED TO THE RIGHT SIDE OF APPROACHING TRAFFIC. THOSE DESIGNATED "L" ARE PLACED TO THE LEFT SIDE.
- 3 USE RETRO-REFLECTIVE SHEETING AS PER THE CONTRACT.



# FLEXIBLE GUIDE POST (TUBULAR MARKER)



### HINGED FLEXIBLE GUIDE POST (TUBULAR MARKER) (SELF RIGHTING AFTER IMPACT)



GENERAL NOTES:

#### DRUMS HAVE CLOSED TOPS.

## PLASTIC DRUM

① SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6

--REVISED--

FOR ADDITIONAL INFORMATION.

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

## DETAILED DRAWINGS

REFERENCE STANDARD SPEC SECTION 618

618-00

DWG. NO.

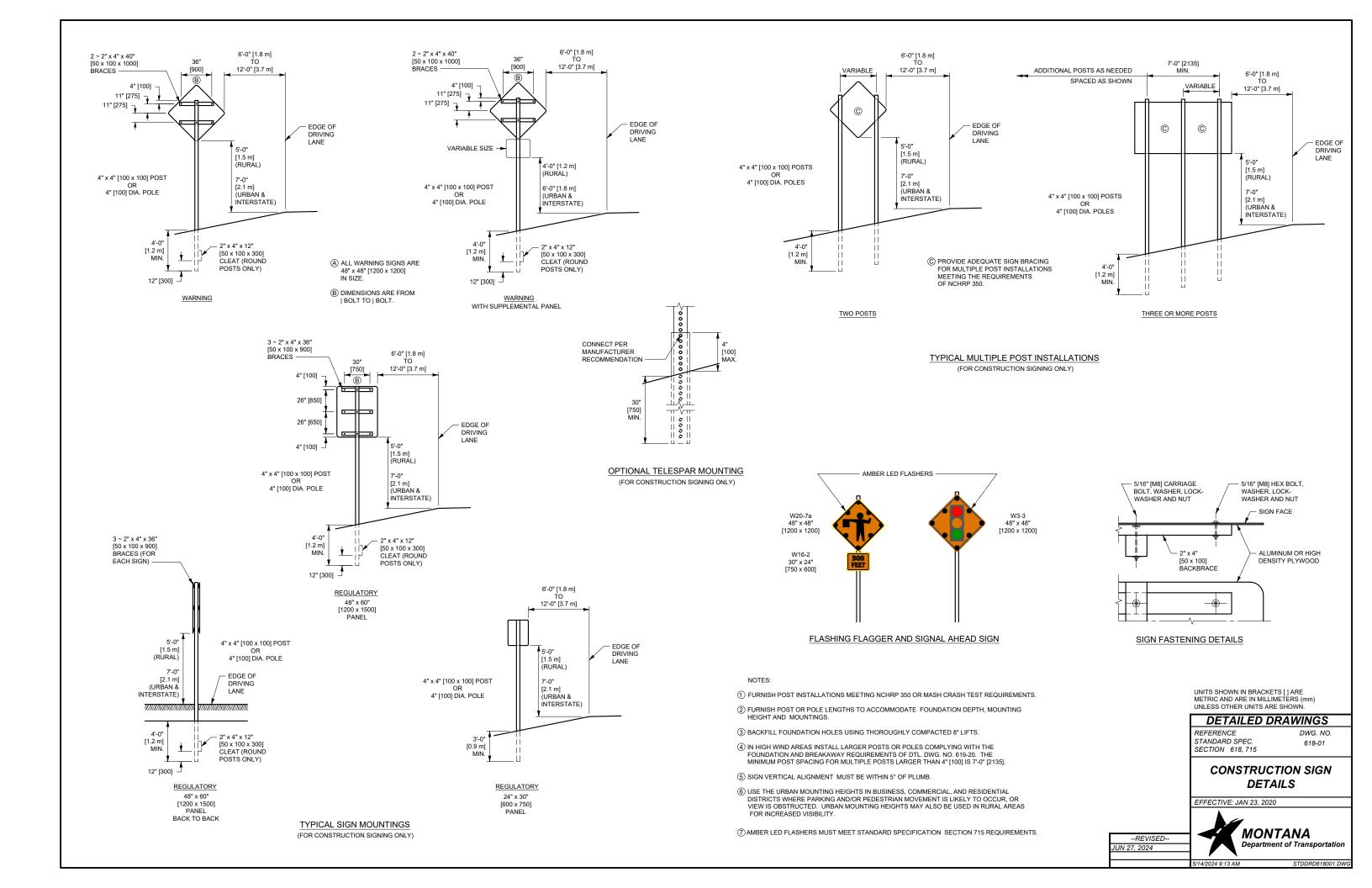
CHANNELIZING DEVICES AND OBJECT MARKERS

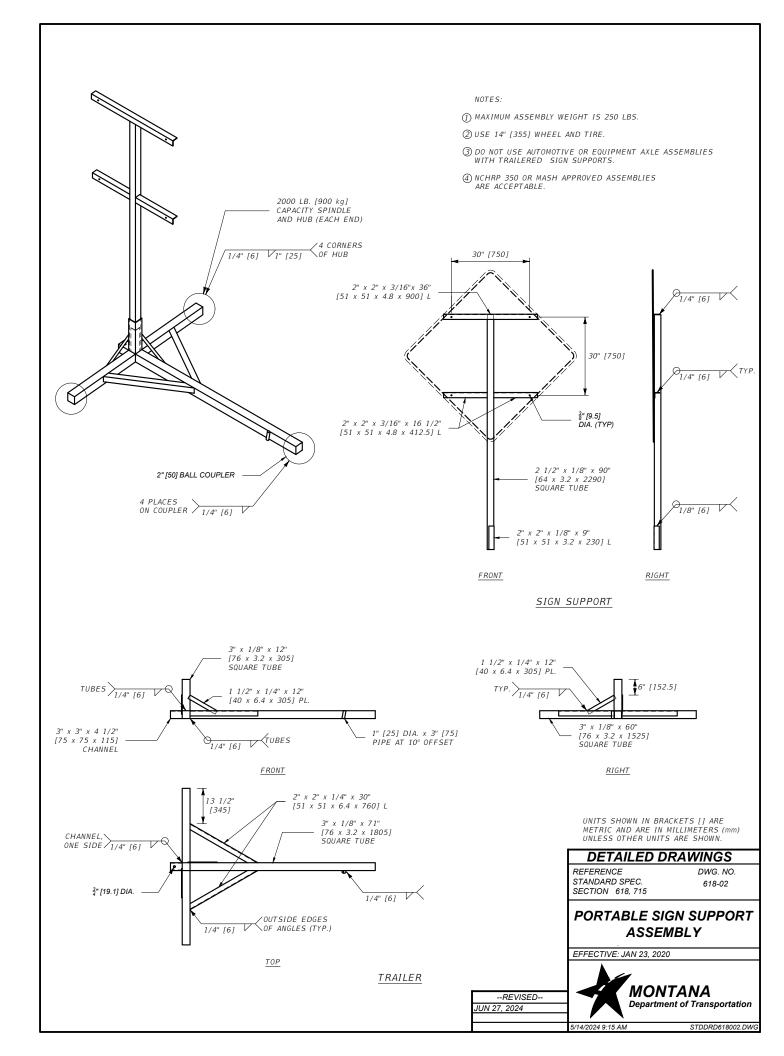
EFFECTIVE: JAN 23, 2020



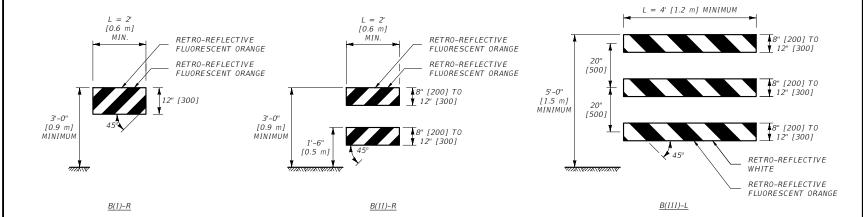
## FLEXIBLE GUIDE POST AND PLASTIC DRUM NOTES:

- ① USE FLEXIBLE GUIDE POSTS AND PLASTIC DRUMS AS CHANNELIZING DEVICES.
- ② USE ASTM TYPE III RETRO-REFLECTIVE SHEETING ON ALL PLASTIC DRUMS AND FLEXIBLE GUIDE POSTS.
- ③ USE ONE SIZE GUIDE POST FOR CONTINUOUS RUNS.





### PORTABLE BARRICADES



## PORTABLE BARRICADE NOTES:

- ① RAIL STRIPES ARE 6" [150] IN WIDTH FOR BARRICADES 3' [0.9 m] OR GREATER IN LENGTH. FOR BARRICADES LESS THAN 3' [0.9 m] IN LENGTH, 4" [100] STRIPES MAY BE USED.
- ② THE PREDOMINANT COLOR FOR OTHER BARRICADE COMPONENTS IS WHITE, BUT UNPAINTED GALVANIZED METAL OR ALUMINUM COMPONENTS MAY BE USED.
- ③ B(111) BARRICADES FACING TRAFFIC FROM BOTH DIRECTIONS MUST BE STRIPED ON BOTH SIDES.
- (4) USE MATERIALS FOR BARRICADE FRAMEWORK, ASSEMBLY, ATTATCHED SIGNS, AND MEANS OF SIGN ATTACHMENT MEETING NCHRP 350 AND/OR MASH REQUIREMENTS FOR WORK ZONE DEVICES. OPTIONS FOR SIGN ATTACHMENT ARE:
  - \* SIGNS UP TO 10 SQ FT [1.0 SQ m] BOLTED TO TOP RAIL.
  - SIGNS OVER 16 SQ FT [1.5 SQ m] BOLTED TO RAILS AND BOTH UPRIGHT SUPPORTS.
  - SIGNS MAY BE MOUNTED BEHIND BARRICADES ON SEPARATE NCHRP 350 AND/OR MASH APPROVED SIGN SUPPORTS.

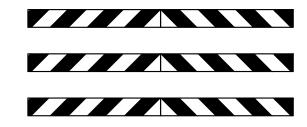
- ⑤ SUFFICIENTLY WEIGHT SANDBAGS TO ANCHOR BARRICADES. WATERPROOF SANDBAGS DURING FREEZING WEATHER.
- 6 USE RETRO-REFLECTIVE SHEETING IN ACCORDANCE WITH THE CONTRACT.

### RAIL STRIPES

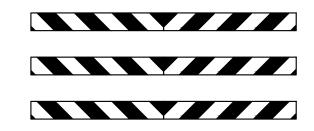


WHERE BARRICADES EXTEND ACROSS THE ENTIRE ROADWAY,
POSITION BARRICADES WITH STRIPES SLOPING DOWNWARD IN THE
DIRECTION VEHICLES MUST TURN.





WHERE BOTH LEFT AND RIGHT TURNS ARE PERMITTED, POSITION BARRICADES WITH STRIPES SLOPING DOWNWARD LEFT AND RIGHT AWAY FROM BARRICADE CENTER.



WHERE TURNING IS NOT PERMITTED, POSITION BARRICADES WITH STRIPES SLOPING DOWNWARD TOWARD BARRICADE CENTER.

> UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

## DETAILED DRAWINGS

REFERENCE STANDARD SPEC SECTION 618 DWG. NO. 618-03

**BARRICADES** 

EFFECTIVE: JAN 23, 2020

--REVISED-JUN 27, 2024

MONTANA
Department of Transportation

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GENERAL NOTES:

① SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 FOR ADDITIONAL INFORMATION.