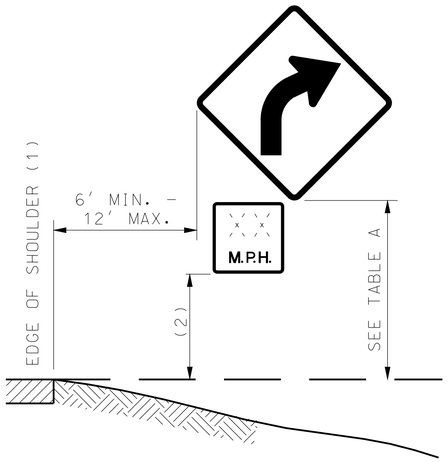
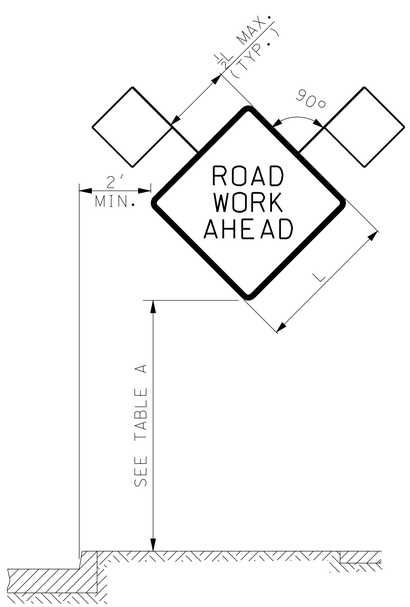
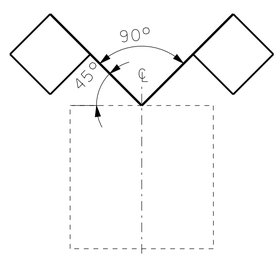



(1) EDGE OF TRAVELED WAY WHERE THERE IS NO PAVED OR STABILIZED SHOULDER.
(2) ONE-FOOT LESS THAN MOUNTING HEIGHT NOTED IN TABLE A.




## HEIGHT AND LATERAL LOCATIONS FOR POST AND PORTABLE SIGN MOUNTING

| TYPE | SIGN SUPPORT | SIGN SUBSTRATE | MINIMUM MOUNTING HEIGHT(3) | USAGE LIMITATIONS | COMMENTS |
|---|---|---|---|---|---|
| POST | PERFORATED SQUARE STEEL TUBE<br>U-CHANNEL<br>WOOD | RIGID | 5' RURAL UNDIVIDED HIGHWAYS<br>7' RURAL DIVIDED HIGHWAYS<br>7' URBAN HIGHWAYS | NONE | POSTS SHALL BE FREE OF ANY BRACING AND EXTEND NO FURTHER ABOVE THE SIGN EXCEPT AS NEEDED FOR WARNING LIGHT ATTACHMENT. SEE STANDARD PLAN 903.03 FOR POST INSTALLATION DETAILS. GALVANIZATION OF POSTS WILL NOT BE REQUIRED. |
| TYPE 1 PORTABLE | SKID<br>FOLD-UP STAND | RIGID | 5' RURAL UNDIVIDED HIGHWAYS<br>7' RURAL DIVIDED HIGHWAYS<br>7' URBAN HIGHWAYS | PERMITTED ONLY WHERE POST MOUNTING IS NOT FEASIBLE. | SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND MAY BE PLACED ADJACENT TO OR WITHIN THE ROADWAY PROVIDED A MINIMUM LATERAL CLEARANCE OF 3 FEET, MEASURED HORIZONTALLY FROM THE EDGE OF THE SIGN TO THE EDGE OF DESIGNATED TRAVELED WAY, IS MAINTAINED. |
| TYPE 2 PORTABLE | EASEL<br>FOLD-UP STAND<br>SELF-DRIVING POST<br>TYPE III MOVABLE BARRICADE<br>SKID | FLEXIBLE<br>RIGID | 12"(4) | PERMITTED ONLY FOR INSTALLATION UP TO 3 DAYS(5). WHERE SIGNS ARE OBSCURED BY OTHER OBJECTS (I.E., TRAFFIC CONTROL DEVICES, PARKED VEHICLES, BARRIER, VEGETATION, ETC.) OR INSTALLED ON MULTI-LANE UNDIVIDED FACILITIES OR MULTI-LANE DIVIDED FACILITIES WITH 3 OR MORE LANES IN ONE DIRECTION, MOUNTING HEIGHTS SHALL BE AS SPECIFIED FOR POST-MOUNTED SIGNS. | SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND MAY BE PLACE ADJACENT TO OR WITHIN ROADWAY PROVIDED A MINIMUM LATERAL CLEARANCE OF 3 FEET, MEASURED HORIZONTALLY FROM THE EDGE OF THE SIGN TO THE EDGE OF THE DESIGNATED TRAVELED WAY, IS MAINTAINED. |
| BARRIER | CONCRETE TRAFFIC BARRIER<br>GUARDRAIL | FLEXIBLE<br>RIGID | 5' RURAL UNDIVIDED HIGHWAYS<br>7' RURAL DIVIDED HIGHWAYS<br>7' URBAN HIGHWAYS | PERMITTED ONLY WHERE LONGITUDINAL BARRIER IS PRESENT. | SYSTEMS SHALL PROVIDE POSITIVE CONNECTION TO THE BARRIER AND MINIMIZE POTENTIAL FOR VEHICLE SNAGGING. |
| VEHICLE | PAVEMENT MARKING EQUIPMENT<br>PILOT CAR<br>PROTECTIVE VEHICLE | FLEXIBLE<br>RIGID | 48" (6) | PERMITTED ONLY IN PILOT CAR OR MOVING OPERATIONS. | |

(3) MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.
(4) MOUNTING HEIGHTS FOR REGULATORY AND GUIDE SIGNS SHALL BE AS SPECIFIED FOR POST-MOUNTED SIGNS.
(5) SIGNS MOUNTED ON TYPE III BARRICADES, GORE EXIT SIGN, AND SIGNS FOR CROSWALK/SIDEWALK CLOSURES MAY BE LEFT IN PLACE FOR MORE THAN 3 DAYS.
(6) DEVIATIONS AS APPROVED BY THE ENGINEER.

## TABLE A
## WORK ZONE SIGN MOUNTING REQUIREMENTS

| SIGN AREA (SQ.FT.) | POST TYPE | | |
|---|---|---|---|
| | U-CHANNEL | WOOD | PERF. SQUARE STEEL TUBING |
| ≤ 10 | 1 - 3.0 LB./FT.* | 1 - 4" X 4"* | 1 - 2" 12 GA.* |
| > 10 ≤ 16 | 2 - 3.0 LB./FT. | 2 - 4" X 4"<br>1 - 4" X 6"* | 2 - 2" 12 GA. |
| > 16 ≤ 24 | 2 - 3.0 LB./FT. | 2 - 4" X 6" | 3 - 2" 12 GA.** |
| > 24 ≤ 30 | 3 - 3.0 LB./FT. | 2 - 4" X 6" | N/A |
| > 30 ≤ 50 | N/A | 2 - 6" X 6" | N/A |

* SIGNS GREATER THAN 4 FEET IN WIDTH, EXCEPT DIAMOND SHAPE SIGNS, REQUIRE TWO POSTS.

** REQUIRES SLIP BASE PER MANUFACTURER'S RECOMMENDATION.

## TABLE B
## POST SIZE REQUIREMENTS

GENERAL NOTES:

LONGITUDINAL SPACING OF SIGNS SHOWN IN THE PLANS ARE PREFERRED MINIMUMS, BUT MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS WITH APPROVAL FROM THE ENGINEER.

SIGNS SHALL NOT BE MOUNTED IN OR ON CHANNELIZERS.

ALL POSTS AND SIGNS SHALL BE INSTALLED AND MAINTAINED IN A PLUMB POSITION.

CONSTRUCTION SIGNS SHALL NOT BE LOCATED ON SIDEWALKS, BICYCLE LANES, OR AREAS DESIGNATED FOR PEDESTRIAN OR BICYCLE TRAFFIC.

ALL BATTERY PACKS SEPARATE FROM WARNING LIGHT SHALL BE MOUNTED ON A SUPPORT POST NO HIGHER THAN 18" ABOVE GROUND LINE. IF USED, WARNING LIGHTS SHALL NOT COVER ANY PORTION OF THE SIGN FACE.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
KATHRYN PHILLIPS HARVEY
NUMBER PE-23751
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

# TEMPORARY TRAFFIC CONTROL DEVICES
SIGN MOUNTING REQUIREMENTS

DATE EFFECTIVE: 08/01/2012
DATE PREPARED: 8/15/2012

616.10AQ



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.