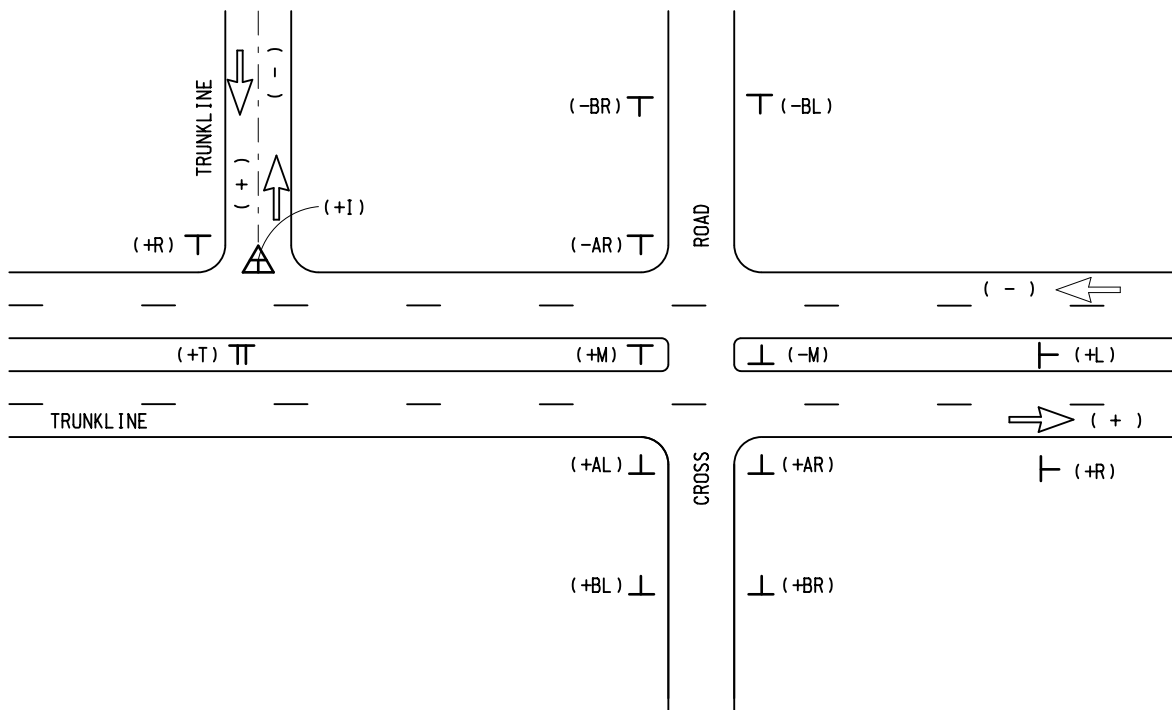


TWO-WAY ROADWAY



ONE-WAY OR DIVIDED ROADWAY



PREPARED BY  
DESIGN DIVISION

DRAWN BY: DHD

CHECKED BY: AJU

DEPARTMENT DIRECTOR  
Kirk T. Steudle

APPROVED BY: Randy V. Pugh  
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: Mark A. Van Paul  
DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

SIGN LOCATION  
CODES PLACEMENT

08/08/11  
F.H.W.A. APPROVAL

07/20/11  
PLAN DATE

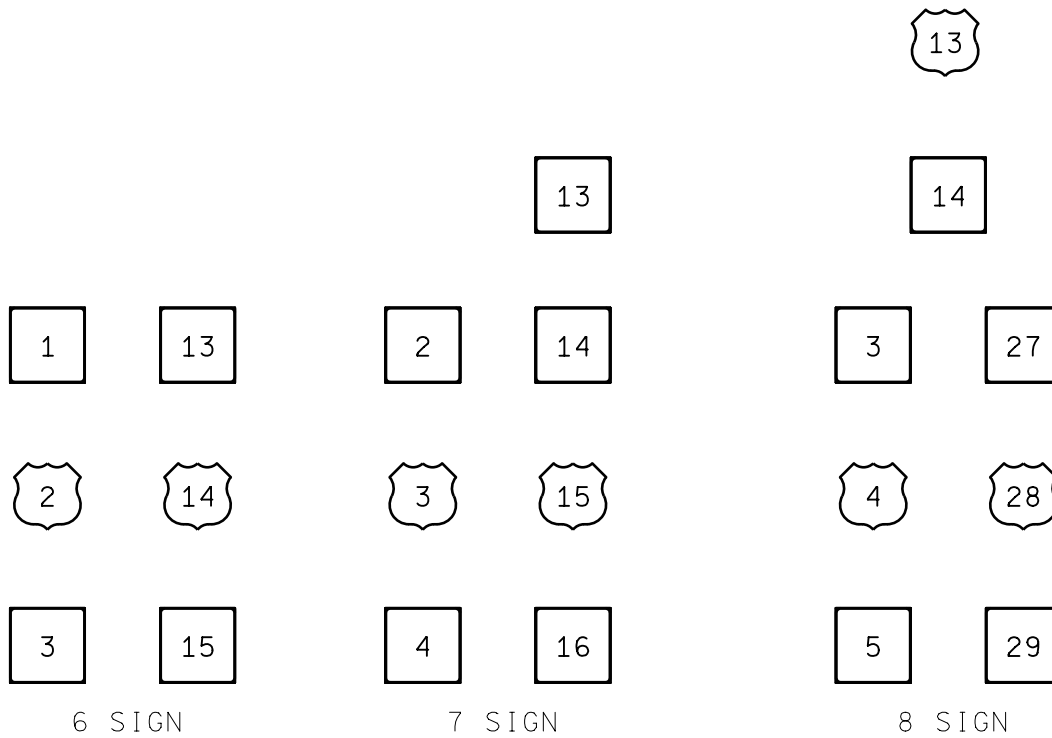
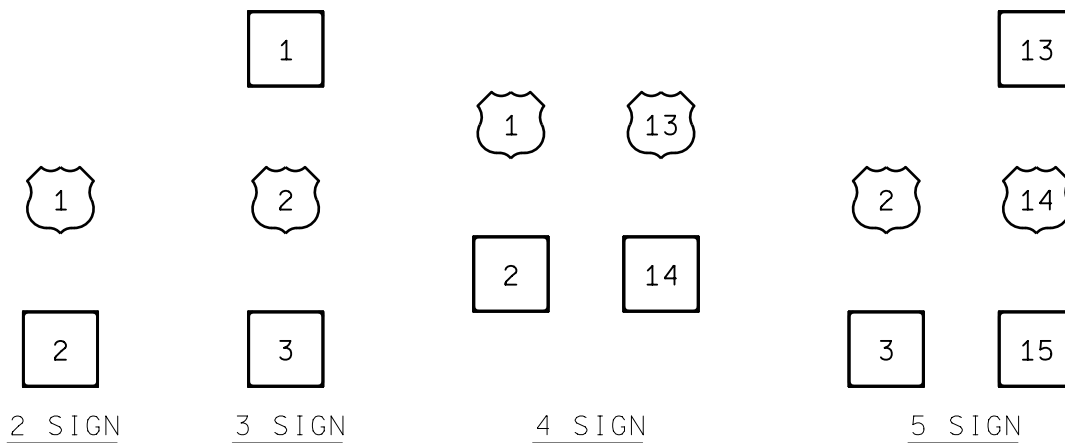
SIGN-115-C

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TABLE 1 - ROADSIDE INSTALLATION GRID

1	13	25	37	49	61
2	14	26	38	50	62
3	15	27	39	51	63
4	16	28	40	52	64
5	17	29	41	53	65
6	18	30	42	54	66
7	19	31	43	55	67
8	20	32	44	56	68
9	21	33	45	57	69
10	22	34	46	58	70
11	23	35	47	59	71
12	24	36	48	60	72

EXAMPLES OF CLUSTER NUMBER ASSIGNMENTS:



NOT TO SCALE

EXAMPLES OF CLUSTER NUMBER ASSIGNMENTS:

13      37

14      38

15      39

1      13      25

2      14      26

3      15      27

9 SIGN

4      28      52

5      29      53

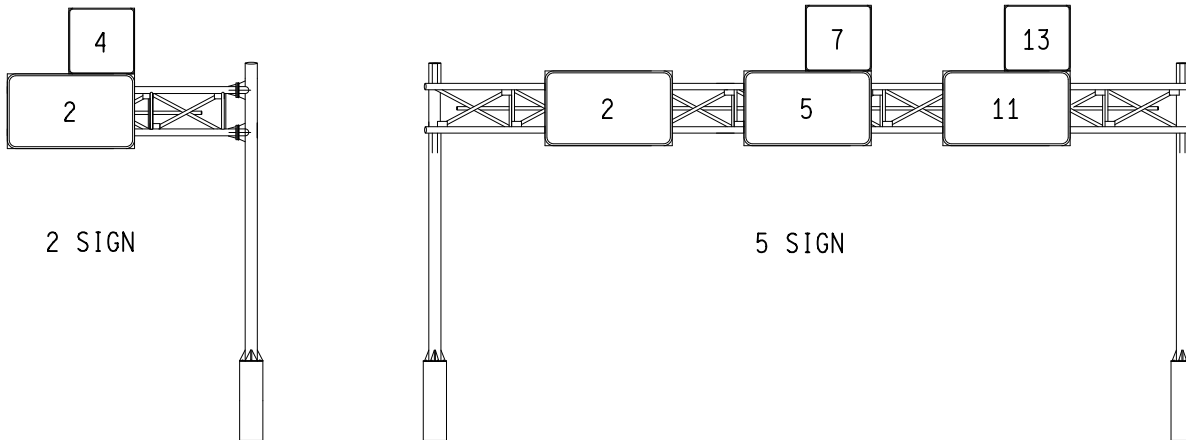
6      30      54

15 SIGN

NOT TO SCALE

## TABLE 2 - OVERHEAD INSTALLATION GRID

1	4	7	10	13
2	5	8	11	14
3	6	9	12	15



EXAMPLES OF CLUSTER NUMBER ASSIGNMENTS:

NOT TO SCALE

# SIGN INVENTORY NOTES

## LOCATION COLUMNS

1. THE PLUS (+) INDICATES THE SIGN IS INTENDED FOR TRAFFIC MOVING IN THE DIRECTION OF THE CONTROL SECTION. (LOWER TO HIGHER MILEPOINT)

THE NEGATIVE (-) INDICATES THE SIGN IS INTENDED FOR TRAFFIC MOVING IN THE DIRECTION OPPOSITE THE DIRECTION OF THE CONTROL SECTION. (HIGHER TO LOWER MILEPOINT).

2. A, B, I, M, R, L, O, T, INDICATE THE SIDE OF THE ROAD THE SIGN IS ON IN THE DIRECTION INDICATED BY THE + OR THE -.

A - AWAY - SIGN FOR CROSS ROAD TRAFFIC AT THE INTERSECTION WITH A TRUNKLINE (I.E.: STOP SIGN) NOTE: THIS CODE HAS BEEN PHASED OUT.

AI - AWAY ISLANDS - WHEN THERE IS A CROSSROAD OR DRIVEWAY WITH A MEDIAN DIVIDER, WE CAN PROPERLY LOCATE A KEEP RIGHT SIGN WITHOUT CHANGING THE MILE POINT.

AL - AWAY LEFT - SIGN FOR A CROSSROAD TRAFFIC AT INTERSECTION, BUT LOCATED ON LEFT SIDE OF ROAD (I.E.: STOP SIGN).

AR - AWAY RIGHT - SIGN FOR CROSSROAD TRAFFIC AT INTERSECTION, BUT LOCATED ON RIGHT SIDE OF ROADWAY (I.E. STOP SIGNS).

AT - AWAY TARGET - SIGN FOR CROSSROAD TRAFFIC ACROSS FROM INTERSECTION (I.E.: BIDIRECTIONAL TARGET ARROW).

B - BACK AWAY - SIGN FOR CROSSROAD TRAFFIC BACK FROM THE INTERSECTION WITH A TRUNKLINE (I.E.: STOP AHEAD) NOTE: THIS CODE HAS BEEN PHASED OUT.

BL - BACK AWAY LEFT - SIGN FOR CROSSROAD TRAFFIC ON LEFT SIDE OF ROADWAY (STOP AHEAD OR DIRECTIONAL TARGET ARROW).

BR - BACK AWAY RIGHT - SIGN FOR CROSSROAD TRAFFIC ON RIGHT SIDE OF ROADWAY (STOP AHEAD SIGN).

I - ISLAND SIGN FOR TRUNKLINE TRAFFIC. LOCATED ON ISLAND. RESERVED FOR KEEP RIGHT SIGNS AT THE BEGINNING SECTION ON THE TRUNKLINE.

L - LEFT SIDE OF THE ROAD AS INDICATED BY THE DIRECTION OF TRAVEL FROM ZERO POINT.

LM - LEFT SIDE OF ROAD IN THE MEDIAN FACING TRUNKLINE TRAFFIC AS INDICATED BY THE DIRECTION OF TRAVEL FROM THE ZERO POINT.

M - MEDIAN AWAY SIGN FOR NON-TRUNKLINE CROSSROAD TRAFFIC AT THE INTERSECTION ON MEDIAN SIDE OF TRUNKLINE AND FOR USE ON ONE-WAY AND DIVIDED ROADWAYS ONLY (I.E.: STOP SIGNS, ONE-WAY SIGNS).

ML - MEDIAN AWAY LEFT - SIGN IN BLVD (MEDIAN) LOCATED ON LEFT SIDE OF ROADWAY.

MR - MEDIAN AWAY RIGHT - SIGN IN BLVD (MEDIAN) LOCATED ON RIGHT SIDE OF ROADWAY).

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BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN

08/08/11  
F.H.W.A. APPROVAL

07/20/11  
PLAN DATE

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NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

O - OVERHEAD.

OA - OVERHEAD - SIGN IS FOR CROSSROAD TRAFFIC AT THE INTERSECTION.

R - RIGHT SIDE OF THE ROAD AS INDICATED BY THE DIRECTION OF TRAVEL FROM ZERO POINT.

T - TARGET SIGN FOR TRUNKLINE TRAFFIC ONLY.

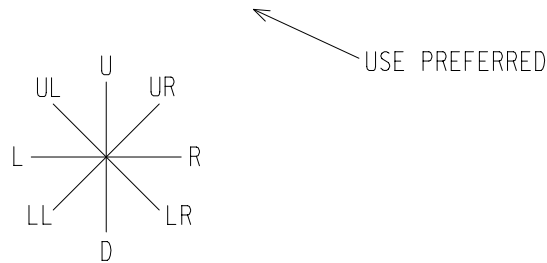
SIGN CODE COLUMN

SEE MICHIGAN STANDARD HIGHWAY SIGNS BOOK.

ARROW COLUMN

1. THE DIRECTION THAT ARROW SHAFT TURNS AT FIRST TURN FROM BASE OF ARROW; OR, IF NO TURN, THEN THE DIRECTION THE ARROW HEAD POINTS.
2. IF NO ARROW, THEN THE DIRECTION OF SHAFT.
3. ON SIGNS WITH MORE THAN ONE ARROW, THE ARROW INFORMATION IS RECORDED AS PART OF MESSAGE.

EXAMPLE: ARROW (U), ARW (L), ETC.



COLOR COLUMN

BFY - BLACK/FLUORESCENT YELLOW

RGW - RED AND GREEN/WHITE

BLW - BLUE/WHITE

RW - RED/WHITE

BO - BLACK/ORANGE

WB - WHITE/BLACK

BW - BLACK/WHITE

WBL - WHITE/BLUE

BY - BLACK/YELLOW

WBR - WHITE/BROWN

BYG - BLACK/FLUORESCENT YELLOW GREEN

WG - WHITE/GRE

GW - GREEN/WHITE

WR - WHITE/RED

O - ORANGE

YBL - YELLOW/BLUE

RBW - RED AND BLACK/WHITE

RBY - RED AND BLACK/YELLOW

NOT TO SCALE

SIZE COLUMN

FOR PROJECTS UTILIZING PLAN SHEETS, SIGN SIZES UP TO 96 INCHES SHOULD BE EXPRESSED IN INCHES. SIGN SIZES GREATER THAN 96 INCHES SHOULD BE EXPRESSED IN FEET.

WHEN MTSIS (LOG PLANS) ARE UTILIZED, ALL SIGN SIZES SHOULD BE EXPRESSED IN INCHES.

MATERIAL TYPE COLUMN

1. PANEL

- |     |   |                                |     |   |  |
|-----|---|--------------------------------|-----|---|--|
| O   | - | OVERHEAD PLASTIC OR PLEXIGLASS | V   | - | HEAVY GAUGE ALUM.                      |
| I   | - | ALUMINUM EXTRUDED SECTION      | VI  | - | SANDWICHED MAT'L                       |
| II  | - | PLYWOOD                        | VII | - | CORRUGATED PLASTIC (NOT FOR NEW SIGNS) |
| III | - | ALUMINUM SHEET                 |     |   |  |
| IV  | - | ALUMINUM SHEET OVERLAY         |     |   |  |

2. FACE

- |   | BACKGROUND         | LEGEND            |
|---|--------------------|-------------------|
| A | - REFLECTORIZED    | REFLECTORIZED     |
| B | - REFLECTORIZED    | NON-REFLECTORIZED |
| C | - NONREFLECTORIZED | REFLECTORIZED     |

CLUSTER LOCATION COLUMN

SEE SHEET 2 AND 3.

SUPPORT TYPE COLUMNS

- |     |                            |     |                     |    |                                 |
|-----|----------------------------|-----|---------------------|----|---------------------------------|
| 00  | 4"x4" WOOD POST            | 46  | PIGGYBACK POST (6#) | 68 | G BR. CONN                      |
| 01  | 3# U - CHANNEL             | 47  | 4X6 WOOD POST (DE)  | 69 | H BR. CONN                      |
| 01a | 3# THRU CONC               | 48  | 4X6 WOOD POST       | 70 | I BR. CONN                      |
| 02  | PIPE                       | 48a | 4X6 THRU CONC       | 71 | J BR. CONN                      |
| 03  | RUSTIC WOOD TIMBER (PARKS) | 49  | 6X8 WOOD POST       | 72 | K BR. CONN- CONC T              |
| 04  | TELESPAR SQ. TUBE          | 49a | 6X8 THRU CONC       | 73 | L BR. CONN- CONC T              |
| 05  | POLE BAND                  | 60  | CONC BARRIER CONN   | 74 | M BR. CONN- CONC T              |
| 05a | DIRECT BOLTED TO WOOD POLE | 61  | GLARE SCREEN CONN   | 75 | O BR. CONN- CONC I              |
| 06  | BRIDGE PIER                | 62  | A BR. CONN (A1)     | 76 | P BR. CONN- CONC I              |
| 07  | SPAN WIRE                  | 62a | A2 BR. CONN- CONC T | 77 | Q BR. CONN- CONC I              |
| 08  | SIGNAL WIRE                | 63  | B BR. CONN          | 78 | R BR. CONN- BOX                 |
| 10  | GALV ST. ROUND SMOOTH POST | 64  | C BR. CONN- OLD STD | 79 | S BR. CONN- BOX                 |
| 11  | W8 X 13 COLUMN BREAK-AWAY  | 64a | C BR. CONN- NEW STD | 80 | T BR. CONN- BOX                 |
| 12  | W8 X 18 COLUMN BREAK-AWAY  | 65  | D BR. CONN- OLD STD | 81 | U BR. CONN- PS BOX              |
| 23  | TYPE E CANTILEVER          | 65a | D BR. CONN- NEW STD | 82 | V BR. CONN- PS BOX              |
| 24  | TYPE C TRUSS               | 66  | E BR. CONN- OLD STD | 83 | W BR. CONN- PS BOX              |
| 25  | TYPE D TRUSS               | 66a | E BR. CONN- NEW STD | 88 | GDRAIL & IMPACT ATTENUATORS     |
| 26  | TYPE E TRUSS               | 67  | F BR. CONN- OLD STD | 99 | STEEL RAIL, BR. RAIL, GATE ARMS |
| 27  | TYPE J CANTILVER           | 67a | F BR. CONN- NEW STD |    |                                 |

NUMBER OF POST COLUMN

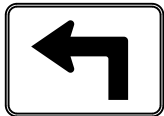
THE NUMBER INDICATES THE NUMBER OF SUPPORTS.

**NOT TO SCALE**

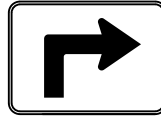
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN	08/08/11 F.H.W.A. APPROVAL	07/20/11 PLAN DATE	SIGN-115-C	SHEET 7 OF 10
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ARROW APPLICATION FOR ROUTE MARKERS (CLUSTER ASSEMBLIES)



M5-1 (LEFT)



M5-1 (RIGHT)



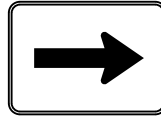
M5-2 (LEFT)



M5-2 (RIGHT)



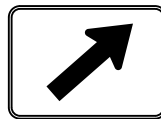
M6-1 (LEFT)



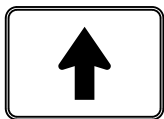
M6-1 (RIGHT)



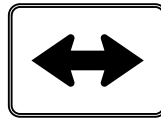
M6-2 (LEFT)



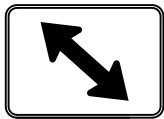
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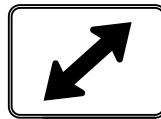
M6-3 (UP)



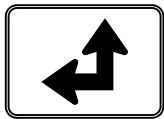
M6-4 (LEFT & RIGHT)



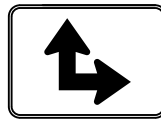
M6-5 (UPPER LEFT  
& LOWER RIGHT)



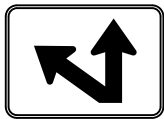
M6-5 (UPPER RIGHT  
& LOWER LEFT)



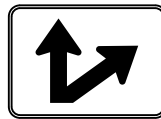
M6-6 (LEFT)



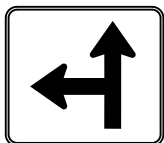
M6-6 (RIGHT)



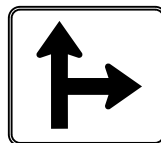
M6-7 (LEFT)



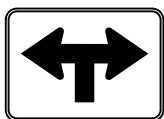
M6-7 (RIGHT)



M6-8 (UP & LEFT)



M6-8 (UP & RIGHT)





















M6-9 (UP & LEFT/RIGHT)

NOT TO SCALE



ARROW APPLICATION FOR OTHER "D", "E", "I", AND "M" SERIES SIGNS

	- UP		- UP LEFT
	- LEFT		- UP RIGHT
	- RIGHT		- LEFT & RIGHT
	- UPPER LEFT		- UP & LEFT
	- UPPER RIGHT		- UP & RIGHT
	- LOWER LEFT		- UPPER LEFT & LOWER RIGHT
	- LOWER RIGHT		- UPPER RIGHT & LOWER LEFT
	- HOOK LEFT		- HOOK RIGHT UP
	- HOOK RIGHT		- HOOK LEFT UP

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION  
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ARROW APPLICATION FOR OTHER "D", "E", "I", AND "M" SERIES SIGNS



- DOWN



- DOUBLE UPPER LEFT



- DOUBLE DOWN



- DOUBLE UPPER RIGHT



- TRIPLE DOWN

NOT TO SCALE

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