

## **RECESSED REFLECTIVE PAVEMENT MARKERS**

Description. This work shall consist of setting reflective pavement markers in a recessed groove in the pavement. The recessed pavement markers shall be used to supplement other pavement markings, similar to the use of Raised Reflective Pavement Markers.

Materials. The reflective pavement marker shall be a 3M 190 series pavement marker or Engineer approved equivalent. The reflector holder shall be a MarkerOne Series R100 reflector holder or Engineer approved equivalent. The epoxy used shall be as recommended by the pavement marker manufacturer.

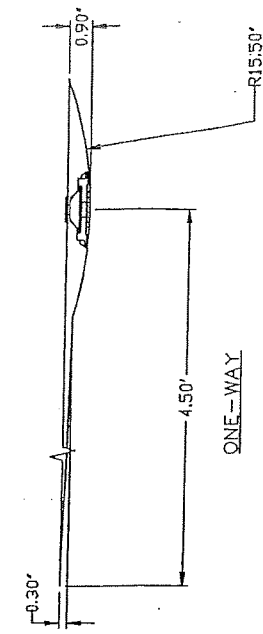
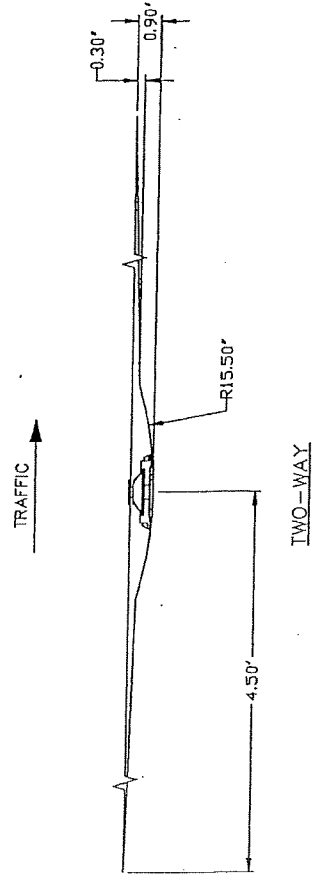
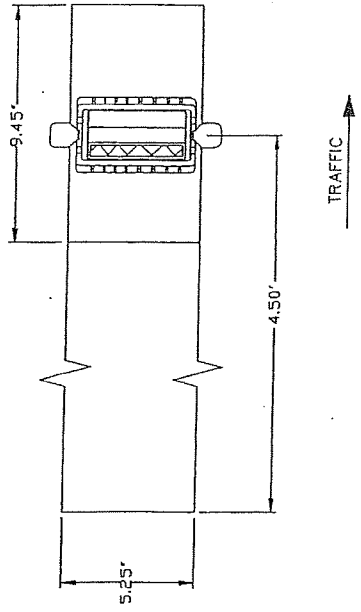
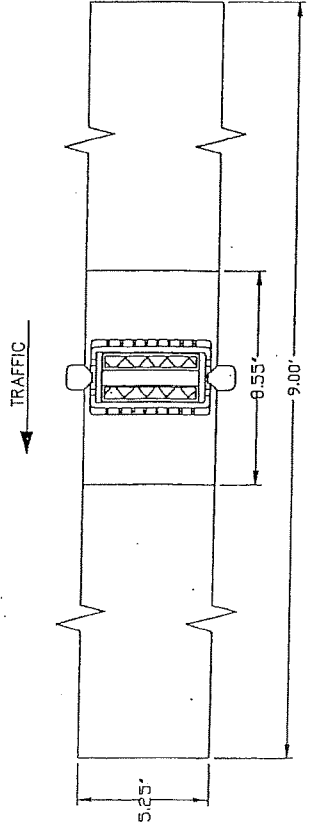
Installation. Spacing and orientation of the pavement markers shall be as detailed in the plans or as directed by the Engineer.

A recessed groove shall be cut in the pavement 5.25" wide, 0.9" deep on a 15.5" diameter. An additional 4.5' long groove shall taper from 0" (normal pavement) to 0.3" depth (full-recessed). For 1-way markers heading uphill, uphill grind taper may be omitted.

The recessed area shall be cleaned free of all loose material, and dry before the placement of the pavement marker. All excess material resulting from the construction of the recessed area shall be completely removed from the surface of the roadway by means of vacuum sweeper truck. The pavement marker shall be cemented with epoxy in the center of the 0.9" deep recessed groove.

Inspection. A straight edge shall be placed across the recess to check that the top of the marker is below the pavement. Inspection and acceptance shall be according to Article 781.04 of the Standard Specifications.

Basis of Payment. This work will be paid for at the contract unit price each for RECESSED REFLECTIVE PAVEMENT MARKER, which price shall be payment in full for all labor, equipment, and materials necessary to complete the work as specified.



## RECESSED REFLECTIVE PAVEMENT MARKERS

INSTALLATION NOTES:

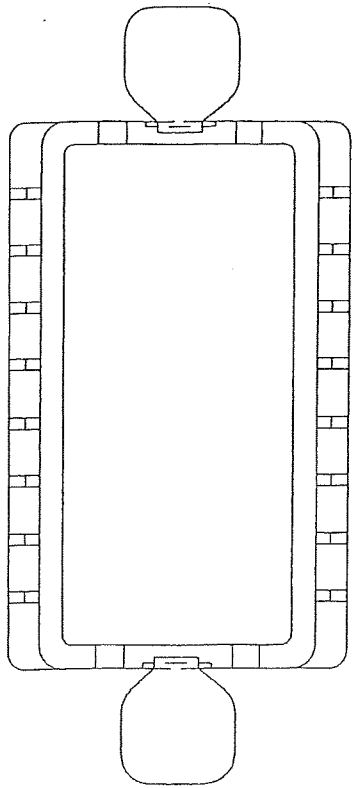
1. SAW CUT TO DIMENSIONS SHOWN.
2. SAW CUT AREAS ARE TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS
4. REFLECTOR SHALL BE 3M SERIES 190 OR APPROVED EQUIVALENT

GENERAL NOTES:

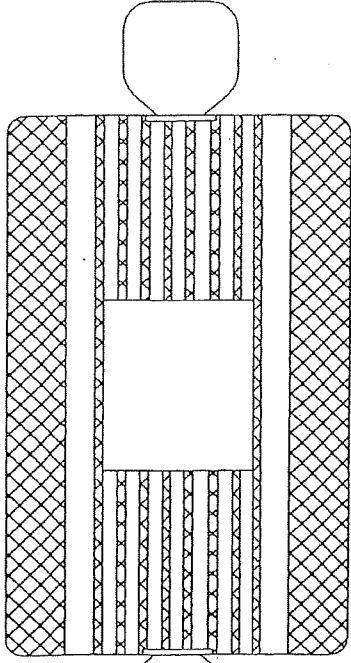
1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

TYPICAL RECESSED REFLECTIVE  
PAVEMENT MARKERS

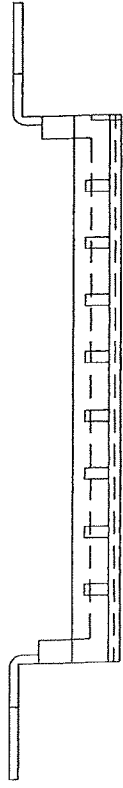
# REFLECTOR HOLDER



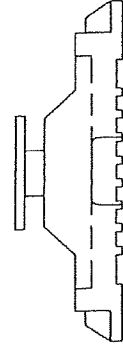
TOP



BOTTOM DETAIL  
(HATCHING INDICATES RAISED AREA)



SIDE



FRONT

# PAVEMENT MARKINGS

## MATERIALS FOR PAVEMENT MARKINGS:

<u>LOCATION</u>	<u>MATERIAL</u>
ALL MARKINGS ON BITUMINOUS PAVEMENT	THERMOPLASTIC PAVEMENT MARKINGS
ALL MARKINGS ON CONCRETE SURFACES	URETHANE PAVEMENT MARKINGS

## INSTALLATION OF PAVEMENT MARKINGS:

<u>LOCATION</u>	<u>TYPE OF MARKING</u>
PAINTED ISLANDS	4" DOUBLE YELLOW; 11" c-c AND 12" YELLOW @ 45°; 30' c-c
ALL TURN BAY TAPERS ALONG THRU LANES	6" WHITE 2' LONG; 6' APART (DOTTED WHITE)
END OF TURN BAYS 150'-200' LONG	TURN ARROW 10' FROM END
ALL OTHER MARKINGS PER MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OF ILLINOIS.	

## INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS:

<u>LOCATION</u>	<u>SPACING</u>	<u>TYPE</u>
DOUBLE YELLOW CENTERLINE	2@80'*	2-WAY YELLOW
MEDIANS > 4'	1@80'*	1-WAY YELLOW
END OF MEDIANS	3 @ 3' LATERAL	1-WAY YELLOW
SKIP-DASH WHITE LANE LINES	1@80'	1-WAY WHITE
AT LONG BARRIER MEDIANS	VARIES	WHITE / RED
SOLID LANE LINES	1@40'	1-WAY WHITE

\* = IN TURN BAYS, TAPERS AND 100 FT FROM TAPERS, USE 2@40'.

PROVIDE A 3M SERIES 190 REFLECTOR AND A MARKERONE SERIES R100 REFLECTOR HOLDER OR ENGINEER APPROVED EQUAL.