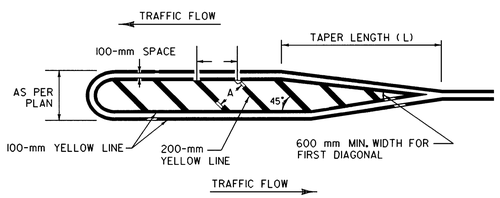
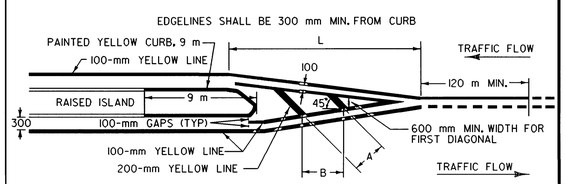


PAINTED ISLAND DETAIL



ISLAND APPROACH MARKINGS

DIMENSIONS		CONDITIONS FOR USE	
A	B		
1500	2100	LOW SPEED OR HIGH SPEED POOR SIGHT DISTANCE, <60 m	WHERE LENGTH OF DIAGONAL AREA IS 22.5 m MAX.
3000	4200	HIGH SPEED AND GOOD SIGHT DISTANCE, ≥60 m	WHERE LENGTH OF DIAGONAL AREA EXCEEDS 22.5 m

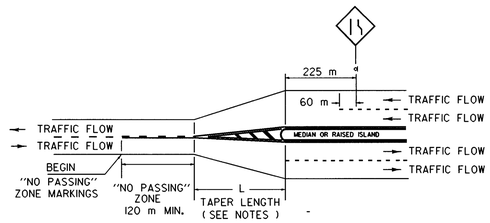
TAPER LENGTH NOTES

1. SEE TABLE ON STD. E-106M FOR TAPER CRITERIA.
2. LENGTH "L" CAN BE EXTENDED AS REQUIRED TO IMPROVE VISIBILITY OR TO PROVIDE A SMOOTHER TRANSITION.

NOTE:

A SOLID LINE IN THE DIRECTION OF TRAVEL IS BEGUN AT A LOCATION 120 m MIN. IN ADVANCE OF THE BEGIN TAPER FOR THE PAVEMENT WIDTH TRANSITION.

PASSING ZONE SHOWN FOR REFERENCE ONLY. ACTUAL MARKINGS BASED ON FIELD CONDITIONS.



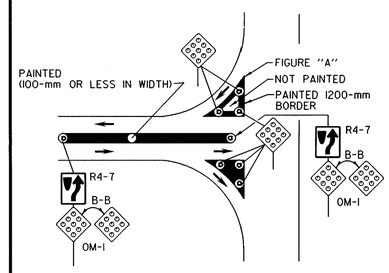
"NO PASSING" ZONE LAYOUT IN PAVEMENT WIDTH TRANSITIONS, TWO LANE HIGHWAY TO DIVIDED HIGHWAY

THE FOLLOWING GUIDELINES WILL BE USED WHEN PAINTING ISLANDS ON STATE HIGHWAYS AND ARE RECOMMENDED FOR ISLANDS ON OTHER SYSTEMS WITHIN THE STATE.

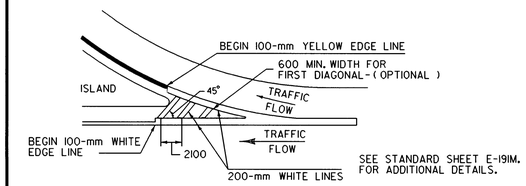
I. PAINTING: ISLANDS WHICH ARE 1.2 m IN WIDTH AND TRIANGLE ISLANDS WHICH ARE LESS THAN 40 m^2 SHALL BE PAINTED ENTIRELY. TRIANGLES WHICH ARE 40 m^2 AND LARGER SHALL BE PAINTED WITH A 1.2-m BORDER AS SHOWN ON FIGURE "A" OF THE PAINTED ISLAND DETAIL.

II. SIGNS: ALL APPROACH NOSES TO THE ISLANDS IN THE LINE OF TRAFFIC WILL BE SIGNED WITH A KEEP RIGHT (R4-7) SIGN AS WELL AS OBJECT MARKERS PLACED BACK TO BACK TO INDICATE THE BEGINNING (END) OF THE ISLAND.

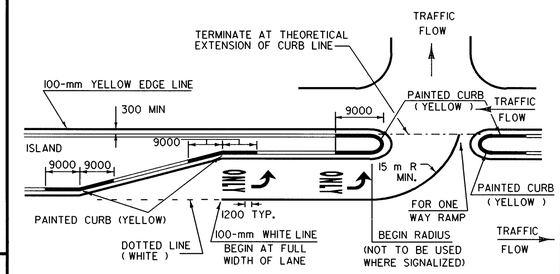
III. EXCEPTIONS: THERE WILL BE SPECIAL CASES WHICH REQUIRE AN EXCEPTION TO, OR MODIFICATION OF THIS GUIDELINE. THESE QUESTIONS SHOULD BE REFERRED TO THE TRAFFIC DESIGN ENGINEER OR HIS DELEGATED REPRESENTATIVE.



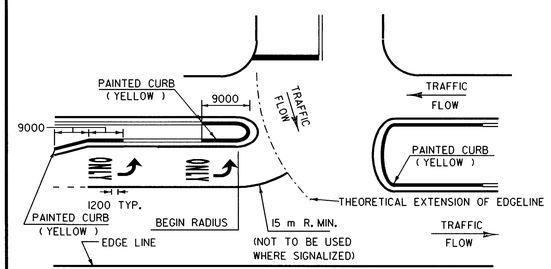
PAINTED ISLANDS



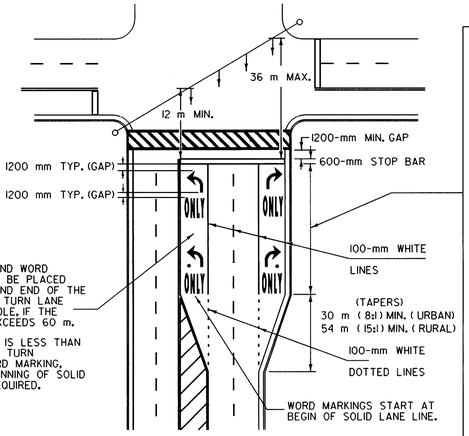
GORE MARKING DETAIL - EXIT TRANSVERSE LINES



TURN LANE AND PAINTED CURB DETAIL



CURB PAINTING: CURB SHALL BE PAINTED ON THE ISLAND NOSE AND TO A POINT 9 m FROM THE END OF THE ISLAND. IN ADDITION, CURB SHALL BE PAINTED 9 m FROM ANY CHANGE IN CURB DIRECTION.



TURN ARROWS AND WORD MARKINGS SHALL BE PLACED AT THE BEGIN AND END OF THE LEFT (OR RIGHT) TURN LANE AND IN THE MIDDLE, IF THE LANE LENGTH EXCEEDS 60 m.

* IF LANE LENGTH IS LESS THAN 30 m, ONLY ONE TURN ARROW AND WORD MARKING, PLACED AT BEGINNING OF SOLID LANE LINE, IS REQUIRED.

TYPICAL MARKINGS FOR SIGNALIZED INTERSECTION

EXCLUSIVE TURN LANES (LEFT OR RIGHT) LANE LINES SHALL BE SOLID AND EXTEND BACK FROM THE STOP LINE TO THE POINT OF FULL LANE WIDTH OF THE TURN LANE.

THE MINIMUM STORAGE LENGTH IS 15 m.

A. STORAGE LENGTH PROVIDED FOR QUEUING:
1. SIGNALIZED
   a. PREFERED METHOD: HIGHWAY CAPACITY MANUAL.
   b. ESTIMATION METHOD. $\frac{\text{(HOURLY VOLUME OF LT)}}{\text{(2)(7.5 m/VEHICLE)(CYCLES/HOUR)}}$
2. UNSIGNALIZED
   ASSUME A 60 SECOND CYCLE LENGTH AND APPLY THE EQUATION FOR SIGNALIZED ESTIMATION METHOD.

B. ADDITIONAL STORAGE LENGTH FOR DECELERATION:
(TAPER/DECEL. FROM CHART) - (MIN. TAPER) - 0.5 (STORAGE - 15 m)

AVERAGE RUNNING SPEED (km/h)	TAPER/DECEL BASED ON A 15 km/h REDUCTION (m)
30	30
40	40
50	50
60	65
70	80
80	95
90	115
100	145

THIS SHEET NOT TO SCALE

OTHER STDS. REQUIRED: E-106M E-193M E-191M

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

REVISIONS AND CORRECTIONS

JUNE 13, 1997 - ORIGINAL APPROVAL DATE

APPROVED

DIRECTOR OF ENGINEERING

DIRECTOR OF CONSTRUCTION AND MAINTENANCE

PAVEMENT MARKING DETAILS

VERMONT AGENCY OF TRANSPORTATION

VAOT Metric STANDARD E-192M