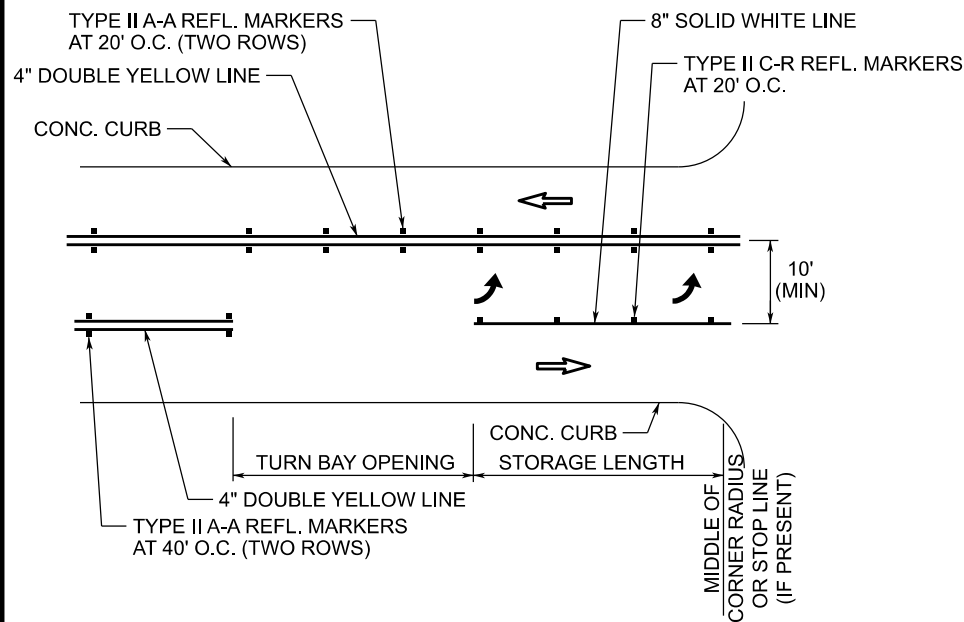
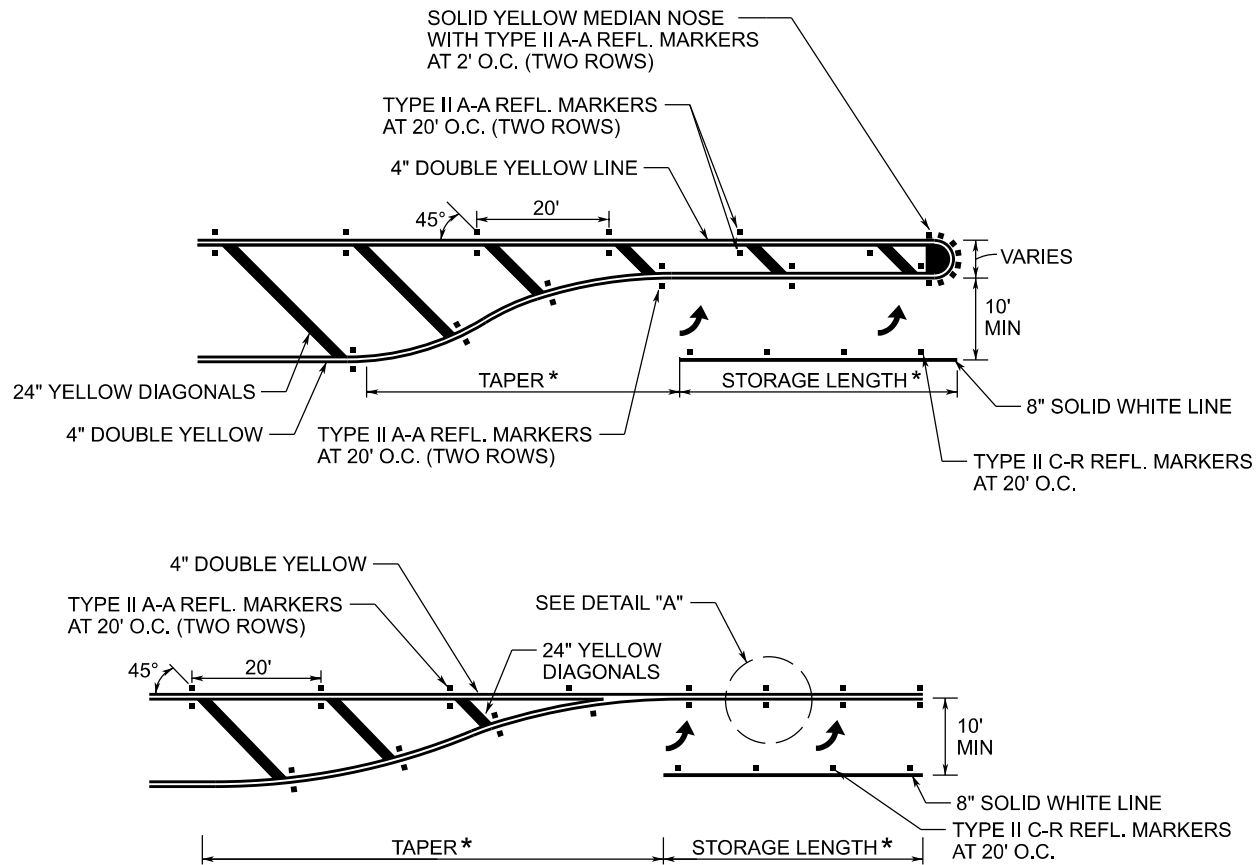




MINIMUM TURN BAY OPENINGS	
POSTED SPEED (MPH)	MINIMUM OPENING (FT)
25-35	60'
≥ 40	100'

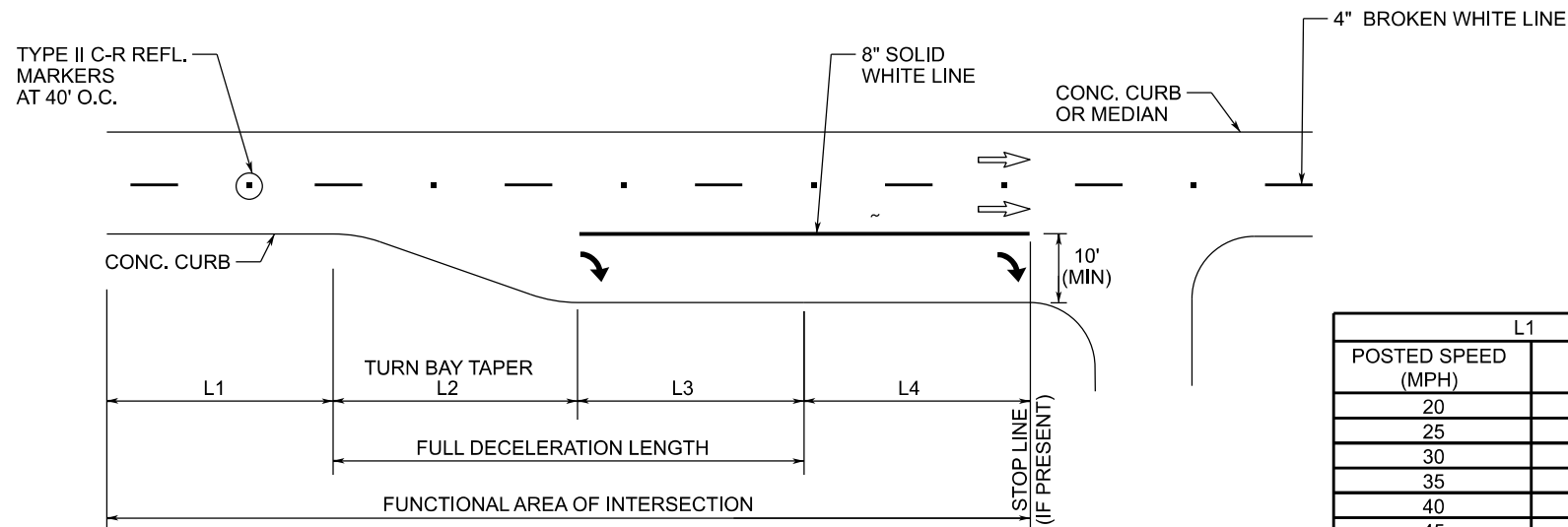
MINIMUM STORAGE LENGTH	
POSTED SPEED (MPH)	MINIMUM OPENING (FT)
40 OR LESS	110'
45 OR MORE	150'

LEFT-TURN LANE



PAINTED MEDIAN LEFT TURN BAY DETAILS

* USE MINIMUM TURN BAY REVERSE CURVE TAPER LENGTH AND MINIMUM STORAGE LENGTH TABLES FOR "LEFT-TURN LANE (RAISED MEDIAN)".



UNSIGNALIZED RIGHT-TURN LANE

L1	
POSTED SPEED (MPH)	LENGTH (FT)
20	75'
25	95'
30	115'
35	130'
40	150'
45	170'
50	185'
55	205'
60	225'
65	240'
70	260'

DESIRABLE FULL DECELERATION LENGTHS	
(L2+L3)	
POSTED SPEED (MPH)	LENGTH (FT)
20	70'
25	115'
30	160'
35	220'
40	275'
45	350'
50	425'
55	515'
60	605'
65	720'
70	820'

GENERAL NOTES:

- THE POSTED SPEED LIMIT IS TYPICALLY EQUAL TO THE DESIGN SPEED MINUS 5 MPH.
- STORAGE LENGTHS LONGER THAN THE MINIMUMS LISTED ON THIS DRAWING MAY BE DETERMINED USING TRAFFIC ENGINEERING ANALYSIS OR APPROXIMATE CALCULATIONS.
- FOR THE PLACEMENT OF PAVEMENT ARROWS AND WORDS SEE TURN LANE PAVEMENT MARKINGS STANDARD SHEET.
- REFER TO APPLICABLE STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS AND TURN LANE DETAILS STANDARD SHEETS.
- REFER TO BICYCLE PAVEMENT MARKINGS STANDARD SHEET FOR TYPE AND PLACEMENT.
- WHITE EDGE LINES AT EDGE OF PAVEMENT ARE REQUIRED WHERE CURBS ARE NOT PRESENT.
- WHITE EDGE LINE ADJACENT TO CURB AND GUTTER IS NOT REQUIRED.
- BICYCLE SYMBOL MARKING SHALL FACE THRU LANE OF TRAFFIC.
- ASIDE FROM LONG LANE LINE MARKINGS, ALL OTHER PAVEMENT MARKINGS SHALL BE PERFORMED. HOT-APPLIED PAVEMENT MARKINGS MAY BE USED ONLY IF APPROVED BY PWD TRAFFIC ENGINEERING & OPERATIONS.
- ASSUMES A TURNING VEHICLE HAS "CLEARED THE THROUGH LANE" WHEN IT HAS MOVED Laterally APPROXIMATELY 9 FT SO THAT A FOLLOWING THROUGH VEHICLE CAN PASS WITHOUT ENCROACHING UPON THE ADJACENT TRAFFIC LANE.
- THE SPEED DIFFERENTIAL BETWEEN THE TURNING VEHICLE AND FOLLOWING THROUGH VEHICLES IS 10 MPH WHEN THE TURNING VEHICLE "CLEARS THE THROUGH TRAFFIC LANE".
- 5.8 FT/S² DECELERATION WHILE MOVING FROM THE THROUGH LANE INTO THE TURN LANE; 6.5 FT/S² AVERAGE DECELERATION AFTER COMPLETING LATERAL SHIFT INTO THE TURN LANE.
- YELLOW EDGE LINES ADJACENT TO RAISED ISLAND ARE REQUIRED, REFER TO TRMRM-24.

SEPTEMBER 2024

CITY OF SAN ANTONIO

PUBLIC WORKS DEPARTMENT

TRAFFIC ENGINEERING AND OPERATIONS STANDARDS

TURN LANE DETAILS 2

SHEET 02 OF 02

TLD-(2)-24

% SUBMITTAL PROJECT NO.: DATE: \$DATE\$
DRWN. BY: DSGN. BY: CHKD. BY: L.BANDA, P.E. SHEET NO: OF