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NOT TO SCALE

SHOULDER

(FOR BIKE ACCOMMODATION DESIGN GUIDANCE SEE STD. DWG. MM-TS-1)

DESIGN NOTES

A	THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.
В	THE DESIRABLE LANE WIDTH IN INDUSTRIAL AREAS WITH HEAVY TRUCK TRAFFIC IS 14 FEET.
С	ON URBAN PROJECTS THE BACKSLOPE AND FORESLOPE DESIGN WILL VARY FROM PROJECT TO AS A GENERAL RULE USE THE FOLLOWING:
	3:1 SLOPES OR FLATTER ARE DESIRABLE AND 2:1 SLOPES ARE APPLICABLE IN AREAS WHER RIGHT-OF-WAY RESTRICTIONS OR COST WARRANTS A STEEPER THAN 3:1 SLOPE. THE MAX SLOPE IN REGION IV IS 3:1.
D	THESE TYPICAL SECTIONS WERE DEVELOPED FOR COLLECTORS AND ARTERIALS ROADS WITH DESIGN SPEEDS 55 MILES PER HOUR AND LOWER. IF A CONTINUOUS TWO WAY WITH LEFT TURN LANE (CTWLTL) IS NEEDED ABOVE 55 MILES PER HOUR OR, THE DESIGNER WILL REFER TO THE PROPER RD11-TS-SERIES SHEET FOR TYPICAL SECTION REQUIREMENTS.
E	10 FEET MINIMUM DESIRABLE.
F	10' MINIMUM RIGHT-OF-WAY WIDTH IS REQUIRED BEHIND FACE OF CURB. WHEN THE BACKSIDE SIDEWALK IS 9' OR MORE FROM THE FACE OF THE CURB, RIGHT-OF-WAY SHALL EXTEND MINIMU BEHIND THE SIDEWALK.
G	URBAN ROADWAYS CROSS SECTIONAL ELEMENTS:
	FOR INFORMATION REGARDING WIDTH OF TRAVELED WAY, SHOULDERS, PARKING LANES, MEDI CURBS, AND OTHER CROSS-SECTIONAL ELEMENTS FOR LOCAL ROADS, REFER TO PAGES 5-13 T 5-16 AND FOR COLLECTOR ROADS, REFER TO PAGES 6-13 THROUGH 6-16.
H	URBAN ROADWAYS GENERAL DESIGN CONSIDERATIONS:
	FOR INFORMATION REGARDING DESIGN SPEED, ALIGNMENT, GRADES, SUPERELEVATION, SIGHT AND OTHER DESIGN CONSIDERATIONS FOR LOCAL ROADS, REFER TO PAGES 5-11 THROUGH 5-1 COLLECTOR ROADS, REFER TO PAGES 6-11 THROUGH 6-13.
I	SERVICE APPURTENANCE (LARGE SIGNS STRUCTURES, SIGNAL, LUMINARY AND UTILITY POLES) SHALL BE PLACED OUTSIDE THE PEDESTRIAN ACCESSIBLE SPACE, PREFERABLE OUTSIDE THE SIDEWALK AREA AND INSIDE RIGHT-OF-WAY.

	GENERAL NOT
1	FOR SPECIFIC CONDITIONS NOT COVERED ON THIS SHEET, RE OF GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" AASHT(
2	REFERENCE SHOULD ALSO BE MADE TO THE AASHTO "ROADS
3	THE DESIGN OF BRIDGES, CULVERTS, WALLS, TUNNELS AND C ACCORDANCE WITH PRINCIPALS OF AASHTO LRFD BRIDGE DE LOADING SHOULD BE THE HL-93 CALIBRATED LIVE LOAD DESIG FOR NEW AND REHABILITATED BRIDGES SHALL BE EQUAL TO ROADWAY, CURB-TO-CURB OR FULL SHOULDER WIDTH AS API
4	FOR EXISTING BRIDGES TO REMAIN IN PLACE, THEY SHOULD F AT LEAST EQUAL TO THE WIDTH OF THE TRAVELED WAY PLUS BRIDGES SHOULD BE CONSIDERED FOR ULTIMATE WIDENING PROVIDE AT LEAST 3-FEET CLEARANCE ON EACH SIDE OR BE AS AN INTERIM MEASURE, ALL BRIDGES THAT ARE LESS THAN SPECIAL NARROW BRIDGE TREATMENTS SUCH AS SIGNING AN
5	THIS TYPICAL SECTION IS DESIGNED TO ACCOMMODATE AN A VEHICLES PER DAY, WHICH IS CONSIDERED TO BE THE TRAFF LEFT TURN LANE (TWLTL) FOR A 2-LANE HIGHWAY. THE TYPIC THAN 5,000 VEHICLES PER DAY USES THE DESIGN STANDARDS RD11-TS-1, RD11-TS-2 AND RD11-TS-3.
6	WHEN ENCOUNTERING MAJOR INTERSECTIONS, DO NOT EXTE TURN LANE (CTWLTL) UP TO THE INTERSECTION. TERMINATE INTERSECTION TO ALLOW DEVELOPMENT OF AN EXCLUSIVE L MAY NOT WARRANT AN EXCLUSIVE LEFT-TURN LANE. SEE STI CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CO
7	AT LOCATIONS WHERE RIGHT-OF-WAY IS LIMITED, REPURPOS THREE-LANE HIGHWAY THE EXISTING SHOULDER WIDTH MAY WIDTH TO ELEVEN (11) FEET UNDER THE FOLLOWING CONDITI
	(7a) THE DESIGN ADT IS 12,500 VEHICLES PER DAY OR LES
	(7b) THE DESIGN SPEED IS 55 MILES PER HOUR OR LESS. 55 MILES PER HOUR SLOPING CURBS ARE USED IN PL DRAWING RP-SC-1.
	(7c) THERE ARE RESTRICTED AND/OR LIMITED CLEARANC EXISTING SOCIAL, ENVIRONMENTAL OR ECONOMIC C
	(7d) WHEN SUFFICIENT NUMBERS OF ACCIDENTS AND/OR MID-BLOCK LEFT TURNS TO JUSTIFY A CONTINUOUS I TWO-LANE ROADWAY.
8	ABOVE GROUND UTILITIES SHOULD BE LOCATED BEHIND THE RIGHT-OF-WAY.
9	WHEN SIDEWALK IS LOCATED NEXT TO THE CURB, SIDEWALK INCH WIDTH OF PROPOSED CURB. SIDEWALK SHALL BE A MIN
10	IF DESIGN INCLUDES A GRASS STRIP, SEE STANDARD DRAWIN
(11)	SEE STANDARD DRAWING S-PL-6 & S-PL-6A FOR TYPICAL GUAI

REV. 07-17-2020: REVISED DESIGN NOTE D AND GENERAL NOTES (7a) AND (7b).

SIGN WILL VARY FROM PROJECT TO PROJECT.

ES ARE APPLICABLE IN AREAS WHERE STEEPER THAN 3:1 SLOPE. THE MAXIMUM

CE OF CURB. WHEN THE BACKSIDE OF THE SHT-OF-WAY SHALL EXTEND MINIMUM 1'

SHOULDERS, PARKING LANES, MEDIANS, AL ROADS, REFER TO PAGES 5-13 THROUGH IROUGH 6-16.

, GRADES, SUPERELEVATION, SIGHT DISTANCE, REFER TO PAGES 5-11 THROUGH 5-13 AND FOR

TES

EFERENCE SHOULD BE MADE TO "A POLICY O, 2011 (GREEN BOOK).

SIDE DESIGN GUIDE," AASHTO, 2011.

OTHER STRUCTURES SHOULD BE IN ESIGN SPECIFICATIONS. THE DESIGN GNATION. THE MINIMUM CLEAR WIDTH THE FULL WIDTH OF THE APPROACH PLICABLE.

HAVE ADEQUATE STRENGTH AND A WIDTH 3 2-FEET CLEARANCE ON EACH SIDE OR REPLACEMENT IF THEY DO NOT HL-93 CALIBRATED LIVE LOAD CAPACITY. I FULL WIDTH SHOULD BE CONSIDERED FOR ND PAVEMENT MARKING.

VERAGE DAILY TRAFFIC OF 5,000 TO 12,500 FIC VOLUME NEEDED TO JUSTIFY THE TWO-WAY CAL SECTION DESIGN FOR VOLUMES LESS S SHOWN ON STANDARD DRAWINGS

END THE CONTINUOUS TWO-WAY LEFT THE CTWLTL IN ADVANCE OF THE LEFT-TURN LANE. MINOR INTERSECTIONS RIPING DETAILS SHOWN ON T-M-1 OR ONTROL DEVICES."

SING EXISTING TWO-LANE HIGHWAY TO BE REDUCED AND THE ROADWAY LANE IONS:

SS.

FOR DESIGN SPEEDS BETWEEN 45 AND LACE OF VERTICAL CURBS. SEE STANDARD

CES FOR RIGHT-OF-WAY DUE TO THE CONDITIONS.

R DELAYS IN TRAFFIC EXIST DUE TO LEFT TURN LANE ON EXISTING

SIDEWALK AND CLOSE TO THE

WIDTH SHALL NOT INCLUDE THE SIX NIMUM OF FIVE FEET WIDE.

NG RD11-TS-7A.

RDRAIL PLACEMENT.

