DESIGN CLASS		10	20	30	40	41	71	72
ROADWAY CLASS		DIVIDED	UNDIVIDED					
CODE (1)		D 130-7430 -(S/AC/C)	U 130-7430 -(S/AC/AC)	U 120-7420 -(S/AC/C)	(7) U 120-7420 -(A/DS/SS)	(7) U 120-7415 -(A/DS/SS)	(7)(8) U 110-7008 -(C/DS/DS)	(8) U 110-7008 -(TMS)
TRAFFIC (AADT) (2)		(4)	› 1800 (6)	1200-1800	900-1200	500-900	150-500	150-500
DESIGN SPEED (km/h)		130	130	120	120	120	110	110
WIDTH METRES	TRAVELLED WAY	7.4	7.4	7.4	7.4	7.4	7.0	7.0
	SHOULDERS	OUTER, 3.0 INNER, 1.0	3.0	2.0	2.0	1.5	0.8	0.8
SURFACING STRUCTURE (3)	TYPE	S	S	S	A	A	C	TMS
	TRAVELLED WAY	ASPHALT CONCRETE	ASPHALT CONCRETE	ASPHALT CONCRETE	DOUBLE SEAL	DOUBLE SEAL	DOUBLE SEAL	ASPHALT MAT
	SHOULDERS	OUTER, COMPOSITE OR AC (5) INNER, AC	ASPHALT CONCRETE	COMPOSITE	SINGLE SEAL	SINGLE SEAL	DOUBLE SEAL	ASPHALT MAT
STANDARD PLANS	DESIGN MANUAL	21010	21020	21030	21030	21040	21050	21050
	SURFACING MANUAL	60010 60011 60012 60013 60014	60020 60021 60022	60023 60024 60025	60023 60024 60025 60026	60023 60024 60025 60026	60040	60050

Superseded by SK-S 40-B

GENERAL NOTE

THE BASIC DESIGN STANDARDS ARE THOSE NORMALLY TO BE USED IN THE PROGRAMMING AND DESIGN OF RECONSTRUCTION OR NEW CONSTRUCTION.

SOME CONSIDERATIONS IN DESIGN STANDARD SELECTION ARE:

- TRUCK TRAFFIC
- FUNCTIONAL CLASSIFICATION
- ROUTE UNIFORMITY
- EXISTING SUBGRADE WIDTH.

REFER TO SP 20025 FOR RESURFACING SHOULDER WIDTH STANDARDS.

For traffic volumes less than 500 vpd, the U110-7008 functional standard is no longer applicable.

See Design Directive #2-2023 for more information.

NOTES

(1) CODE D - DIVIDED HIGHWAY U - UNDIVIDED HIGHWAY

EXAMPLE, U 120-7420-(A/DS/SS) MEANS,
UNDIVIDED
120 km/h DESIGN SPEED
7.4 m TRAVELLED WAY WIDTH
2.0 m SHOULDER WIDTH
STRUCTURE TYPE 'A'
DOUBLE SEALED TRAVELLED WAY SURFACE TYPE
SINGLE SEALED SHOULDER SURFACE TYPE

(2) THE AADT RANGES SHOWN ARE CONSTRUCTION YEAR AADT FOR GENERAL GUIDANCE ONLY IN SELECTION OF THE DESIGN STANDARD.

(3)

STRUCTURE TYPE	SURFACE TYPE
S - STANDARD PAVEMENT (N15)	AC - ASPHALT CONCRETE
A - PAVEMENT A (N5)	DS - DOUBLE SEAL ON BASE COURSE
C - PAVEMENT C (N5 SUBGRADE STRUCTURE)	SS - SINGLE SEAL ON BASE COURSE
TMS - THIN MEMBRANE STRUCTURE	M - ASPHALT MIX MAT ON SUBGRADE
	C - COMPOSITE

(4) LOWER - LIMIT AADT DEPENDS ON THE CAPACITY OF THE EXISTING UNDIVIDED ROADWAY AND ON OTHER WARRANTS.

(5) OUTER SHOULDER TO BE AC WHERE AADT › 8000.

(6) UPPER - LIMIT AADT DEPENDS ON CAPACITY AND OTHER WARRANTS.

(7) ALTERNATE SURFACE TYPES MAY BE RECOMMENDED BY SURFACING DESIGN.

(8) STRUCTURE TYPE DEPENDS ON SUBGRADE CRITERIA.

(9) REFER TO SHEET 2 OF 2 FOR FUNCTIONAL STANDARDS FOR LOW VOLUME GRAVEL HIGHWAYS.

Saskatchewan Highways and Transportation

FUNCTIONAL STANDARDS
FOR RURAL HIGHWAYS

RECOMMENDED BY:		EXECUTIVE DIRECTOR PLANNING & RESEARCH	DATE	91-01-17	STANDARD PLAN NO.	20020
RECOMMENDED BY:		EXECUTIVE DIRECTOR ENGINEERING DIVISION	DATE	91-01-07		
APPROVED BY:		DEPUTY MINISTER	DATE	91-01-08	SHEET	1 OF 2

ACAD DWG. SP20020.DWG LAST REV. DATE, 90/12/17