



BITUMINOUS MIXTURE REQUIREMENT							
ITEM DESCRIPTION	AC TYPE	VOIDS	RAP %	THICKNESS			
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70	PG 64-22	4% <b>©</b> 70 Gyr.	10%	1½"			
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70	PG 64-22	4% @ 70 Gyr.	15%	2½"			
BITUMINOUS BASE COURSE, SUPERPAVE 10" (ROADWAY)	PG 58-22	2% <b>©</b> 50 Gyr.	50%	10"			

MAIN STREET BRIDGE - PROPOSED TYPICAL SECTION STA. 110+96 TO 113+10

*LEGEND* 

1) EXISTING BITUMINOUS PAVEMENT 4.25" - 8.5"

(2) EXISTING PAVING BRICKS, 3.5"

(3) EXISTING SAND BASE, 2" - 3"

EXISTING CONCRETE BASE, 3" - 5"

(5) EXISTING PCC SIDEWALK

(6) EXISTING CONCRETE CURB AND GUTTER

(7) EXISTING WATERMAIN, 16" \*

(8) PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5"

(9) PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2.5"

(10) PROPOSED CONCRETE WEARING SURFACE, 5"

(11) PROPOSED AGGREGATE BASE 2" (CA-6 CRUSHED) (INCLUDED IN COST OF PCC SIDEWALK)

(12) PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5"

(13) PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 10"

(14) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

(15) PROPOSED TOPSOIL FURNISH AND PLACE, 6" & SODDING, SALT TOLERANT

(16) PROPOSED CONCRETE BRIDGE RAIL, SPECIAL

(17) PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE (12" DEPTH, SEE NOTE BELOW)

18) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MINIMUM THICKNESS OF GUTTER FLAG SHALL BE 9°. ADDITIONAL AGGREGATE UNDER GUTTER FLAG SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12)

(19) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SEE NOTE BELOW)

(20) PROPOSED CONCRETE SUPERSTRUCTURE (CLASS BD CONCRETE) 4" THICK

"POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES OVER GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDDT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSTABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE THE CONTRACTOR."

ALL RECOMMENDED UNDERCUTS ARE FROM 6" OUTSIDE THE EDGES OF CURB AND GUTTER. DEPTHS WILL BE DETERMINED BY A LICENSED SOILS ENGINEER. LIMITS ARE FROM STA 106+41 TO 110+96 AND 113+10 TO 116+22

	IRAL DESIGN - MAIN STREET SPEED = 30 MPH
STRUCTURAL DESIGN TRAFFIC	DESIGN YEAR = 2023
CLASSIFICATION: CLASS II	ADT: 23,000
DESIGN PERIOD: 20 YEARS	PV: 22,654
TRAFFIC FACTOR: 4.74	SU: 231
ILLINOIS BEARING RATIO: 3	MU: 231
STRUCTURAL DESIGN #(Dt): 4.84	
BITUMINOUS CONCRETE SURFACE COURSE, SU BITUMINOUS CONCRETE BINDER COURSE, SUP BITUMINOUSE BASE COURSE, SUPERPAVE, 10'	PERPAVE, IL-19, N70, 2.5" $X .33 = 0.83$

X .11 = 0.44

\* EXISTING WATER MAIN TO REMAIN IN SERVICE UNTIL PROPOSED WATER MAIN HOPE PRESSURE PIPE DIRECTIONAL BORING, 16" IS COMPLETED, TESTED, AND

SUB-BASE GRANULAR MATERIAL, TYPE B-4"

F.A.P. RTE.	SECTION		COUNTY		TOTAL SHEETS	
1283	02-00059-00-B	R	KANE		51	6
STA. TO STA.						
FED. R	OAD DIST. NO. 1		ILLINOIS	HIGH	VAY PRO	JECT
	RTE. 1283 STA.	RTE. SECTION  1283 02-00059-00-B	RTE. SECTION 1283 02-00059-00-BR STA.	RTE.         SECTION         COUNTY           1283         02-00059-00-BR         KAN           STA.         TO STA.	RTE.         SECTION         COUNTY           1283         02-00059-00-BR         KANE           STA.         TO STA.	RTE.         SECTION         COUNTY         SHEETS           1283         02-00059-00-BR         KANE         51           STA.         TO STA.

CONTRACT #: 83783

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NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF CARPENTERSVILLE MAIN STREET OVER THE FOX RIVER PROPOSED TYPICAL SECTIONS

SCALE: "NTS" DATE 02-25-2005

DRAWN BY WJH CHECKED BY TEH