

**PROPOSED TYPICAL SECTION NO. 1**

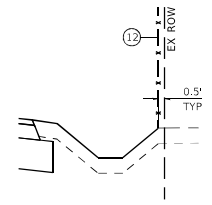
RURAL STREET  
 STA. 108+78.00 TO STA. 109+54.28  
 BRIDGE OMISSION  
 STA. 110+65.77 TO 111+25.00, LT

\*AGGREGATE SHOULDER  
 STA. 110+61.7 TO STA. 110+71.1 LT

\*\* GUARDRAIL  
 STA. 109+27.9 TO STA. 109+65.1 LT  
 STA. 109+55.2 TO STA. 109+72.5 RT  
 STA. 110+53.9 TO STA. 111+04.7 RT  
 STA. 110+47.6 TO STA. 110+70.1 LT

**LONGITUDINAL JOINT SEALANT NOTE**

FOR FULL-DEPTH HMA PAVEMENTS, THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE SURFACE LIFT AND UNDER THE TOP BINDER LIFT.



**PROPOSED WOOD FENCE  
 TYPICAL SECTION NO. 3**

RURAL STREET  
 STA. 109+06.1 TO STA. 109+41.1, RT.  
 STA. 109+58.7 TO STA. 109+90.7, RT.

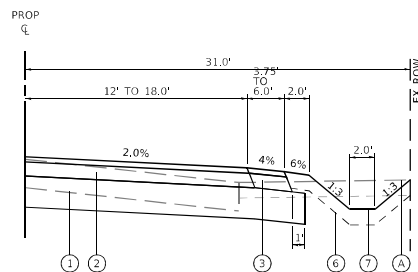
**STRUCTURAL PAVEMENT DESIGN**

STRUCTURAL DESIGN TRAFFIC: Year 2028  
 PV = 2,310 SU = 76 MU = 152  
 ROAD/STREET CLASSIFICATION: Class 2  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P = 91 S = 3 M = 6  
 TRAFFIC FACTOR: Actual TF = 0.68 AC Type = PG 64-22  
 Minimum TF = NO MIN  
 PG GRADE: Binder = PG 64-22 Surface = PG 64-22  
 SUBGRADE SUPPORT RATING: SSR = POOR

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS - RURAL STREET**

ITEM	AIR VOIDS @ Ndes
HMA PAVEMENT (FULL-DEPTH), 7 1/2"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE (IL-19 mm), 5 1/2"	4% @ 50 GYR.
HMA SHOULDERS, 7 1/2"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 5 1/2"	4% @ 50 GYR.
STABILIZED DRIVEWAYS, 10" (COMMERCIAL DRIVEWAY)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 8"	4% @ 50 GYR.
STABILIZED DRIVEWAYS, 7" (PRIVATE DRIVEWAY)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 5"	4% @ 50 GYR.
PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLABS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE (IL-19 mm), VAR.	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.  
 THE AC TYPE FOR NON-POLYMERIZED HMA SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIAL SEE SPECIAL PROVISIONS.



**PROPOSED DITCH GRADING  
 TYPICAL SECTION - NO. 2**

RURAL STREET  
 STA. 106+78.0 TO STA. 108+92.9, RT  
 STA. 109+03.9 TO STA. 109+42.2, RT  
 STA. 109+55.2 TO STA. 109+68.7, RT  
 STA. 110+59.3 TO STA. 111+25.0, RT

STA. 109+09.4 TO STA. 109+60.8, LT  
 STA. 110+52.6 TO STA. 110+68.0, LT

**LEGEND, EXISTING**

- (A) EXISTING GROUND

**LEGEND, PROPOSED**

- (1) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (2) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7 1/2"  
 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50  
 5 1/2" HOT-MIX ASPHALT BINDER COURSE, N50
- (3) HOT-MIX ASPHALT SHOULDERS, 7 1/2"  
 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50  
 5 1/2" HOT-MIX ASPHALT BINDER COURSE, N50
- (4) AGGREGATE SHOULDERS, TYPE B 7"
- (5) GUARDRAIL TERMINAL OR STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)  
 W/ GUARDRAIL REFLECTORS, TYPE A
- (6) TOPSOIL FURNISH & PLACE, 6"
- (7) SEEDING (OF THE CLASS SPECIFIED) W/ FERTILIZER & EROSION CONTROL BLANKET
- (8) EMBANKMENT
- (9) STABILIZED DRIVEWAYS, 7" OR 10"
- (10) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (11) LONGITUDINAL JOINT SEALANT - SEE NOTE
- (12) WOOD FENCE

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WBK ENGINEERING, LLC  
 318 WEST MAIN STREET, SUITE 204  
 ST. CHARLES, ILLINOIS 62274  
 (630) 483-7755

USER NAME	- hootnerff	DESIGNED	- RMS	REVISED	- 1/4/19
DRAWN	- RMS	CHECKED	- DB	REVISI	-
PLOT SCALE	= 1:10	DATE	- 11/5/2018	REVISI	-
PLOT DATE	= 11/4/2019				

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RURAL STREET OVER INDIAN CREEK  
 PROPOSED TYPICAL SECTIONS

SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.	SECTION	15-01127-03-BR	COUNTY	KANE	TOTAL SHEETS	56	SHEET NO.	7
										CONTRACT NO. 61F31			
										ILLINOIS FED. AID PROJECT			