

**PAVEMENT STRUCTURAL DESIGN
COUNTY HIGHWAY 24**

RURAL MAJOR COLLECTOR
DESIGN YEAR (2032) ADT: 6,537
% TRUCKS: 6.2

PAVEMENT SECTION PER
BUREAU OF LOCAL ROADS REVIEW

USE
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
2 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
9 1/2" HOT-MIX ASPHALT BASE COURSE
12" AGGREGATE SUBGRADE

*HMA PAVEMENT LAYERS TO BE PAID FOR AS
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 3/4"

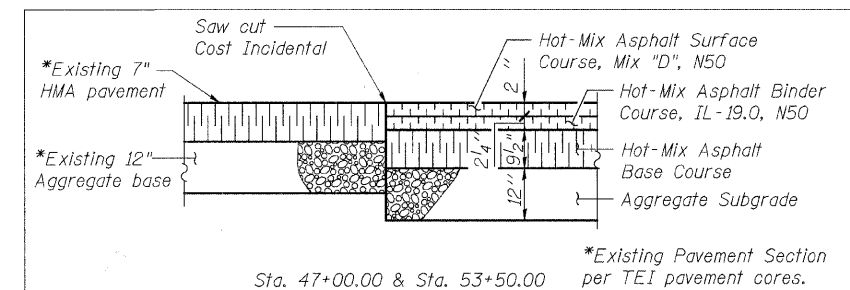
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL-DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 MM); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 2 1/4"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0) 9 1/2" (IN 3 LIFTS)	4% @ 50 Gyr.
SHOULDERS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 MM); 6" (IN 2 LIFTS)	4% @ 50 Gyr.
PAVEMENT CONNECTOR	
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) MIX "D", N50 (IL 9.5 MM)	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 MM); 3"	4% @ 50 Gyr.

The unit weight used to calculate all HMA Surface mixture quantities is 112 lbs/sq. yd./in.

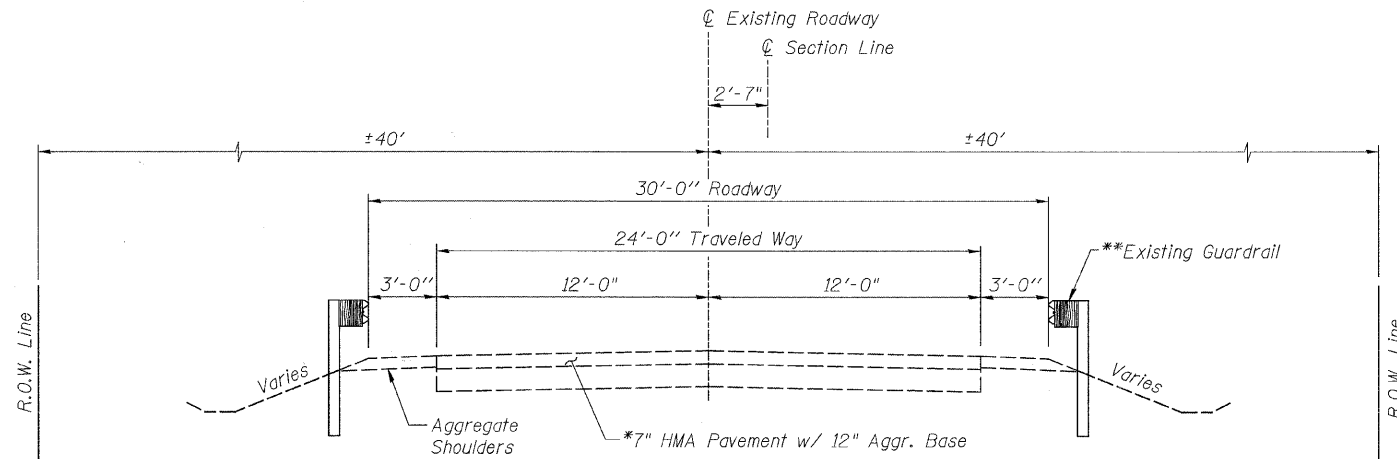
The "AC Type" for Polymerized HMA mixes shall be "SBS/SBR PG 70-22" and for Non-Polymerized HMA the "AC Type" shall be "PG 64-22" unless modified by District One special provisions. For "Percent of RAP" see District One special provisions.

CORE JOINT DETAIL



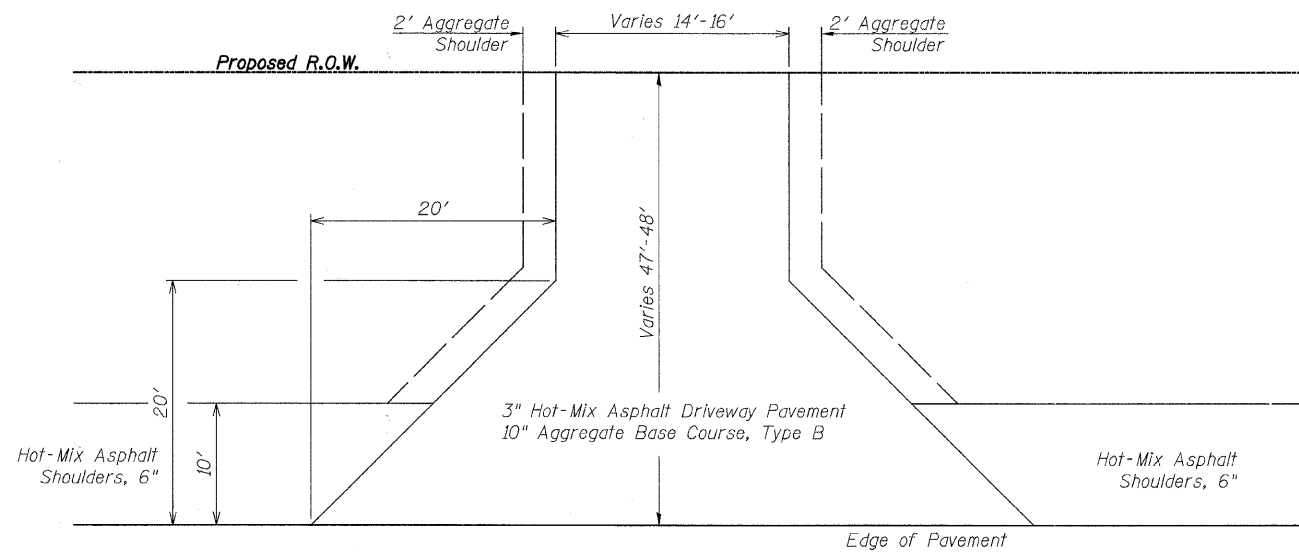
CH 24 - HORIZONTAL CONTROL POINTS (NAD83-2007)

PT #	STA.	N	E	EL.	DESCRIPTION
1	17.1' RT. 46+84.6	1,703,214.7644	1,183,204.2035	706.29	IRON PIN
2	17.0' RT. 54+24.8	1,703,232.6055	1,183,944.1655	698.65	IRON PIN



EXISTING TYPICAL SECTION

Sta. 45+50.00 to Sta. 55+50.00, Indiana Avenue
*Existing Pavement Section per TEI pavement cores.
**See Special Provision, Salvageable Materials



TYPICAL PRIVATE ENTRANCE DETAIL

Right Sta. 51+94 & Left Sta. 52+50

FILE = S:\Struct\1033004-Indiana Avenue.Design\10330041typicals.dgn

REVISION	DATE	BY	REMARKS

D.L.B.
CHECKED
L.G.N.
APPROVED
B.K.C.

**ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT
INDIANA AVENUE (CH 24) OVER TRIM CREEK**

WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM #154-000918

WILL COUNTY

**TYPICALS
STRUCTURE NO. 099-3378
STA. 47+00.00 - STA. 53+50.00**

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01-00042-07-BR	WILL	58	05
STA. 47+00	STA. 53+50		
WHA #: 1033004	DATE: 6/9/2011		

CONTRACT NO. 63617