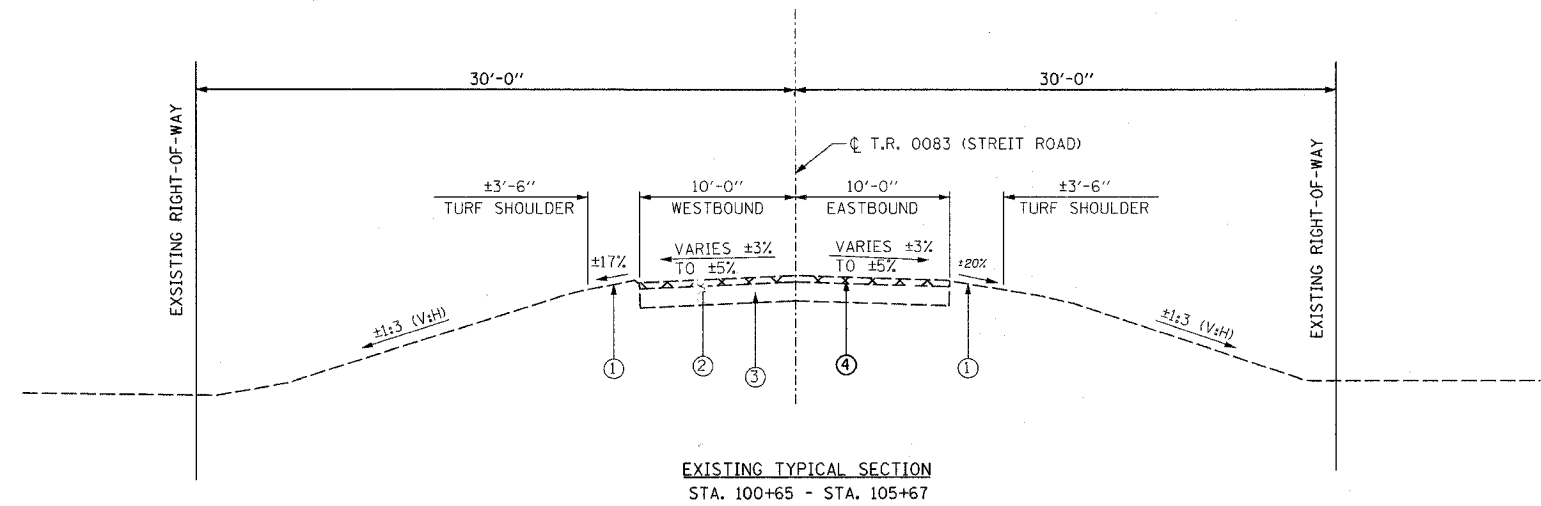
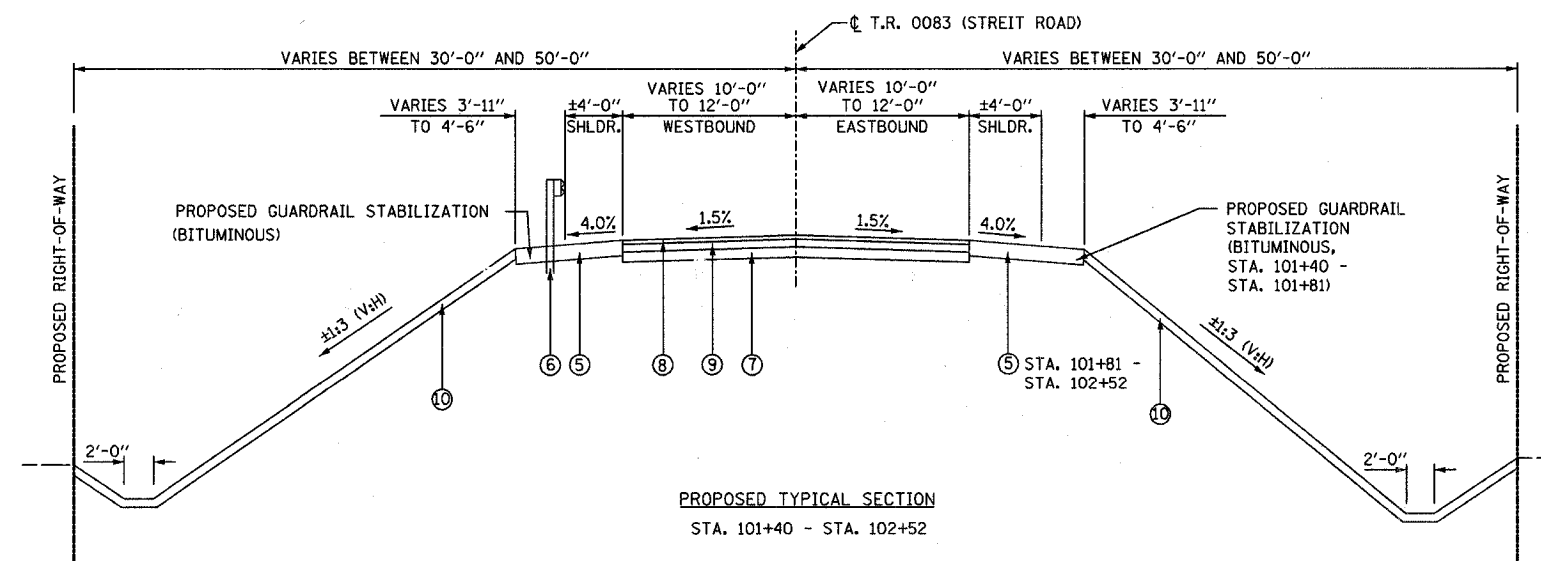


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		MCHENRY	37	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO.: 83872				



**LEGEND**

- ① EXISTING TURF SHOULDER
- ② EXISTING BITUMINOUS CONCRETE (VARIES BETWEEN 1.5" AND 2.5")
- ③ EXISTING AGGREGATE BASE COURSE, 8"
- ④ BITUMINOUS SURFACE REMOVAL (VARIED DEPTH)
- ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4" MIN.
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑦ SUB-BASE GRANULAR MATERIAL, TYPE B, 8" MIN.
- ⑧ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2"
- ⑨ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50, 2.25"
- ⑩ TOPSOIL, FURNISH AND PLACE, 4"



**STRUCTURAL PAVEMENT DESIGN INFORMATION**

(IN ACCORDANCE WITH IDOT LOCAL ROADS.)

STRUCTURAL DESIGN TRAFFIC:  
 DESIGN YEAR: 2030  
 DESIGN YEAR ADT: 600  
 88% P.V., 7.0% S.U., 5.0% M.U.

ROAD/STREET CLASSIFICATION: CLASS III  
 TRAFFIC FACTOR: 0.131  
 SUBGRADE SUPPORT RATING: POOR  
 STRUCTURAL NUMBER, D<sub>t</sub> = 2.5

PAVEMENT STRUCTURE MATERIALS:  
 SURFACE COURSE TYPE: BITUMINOUS; a<sub>1</sub> = 0.44  
 BASE COURSE TYPE: BITUMINOUS; a<sub>2</sub> = 0.33  
 SUBBASE TYPE: AGGREGATE (CRUSHED); a<sub>3</sub> = 0.11

**BITUMINOUS MIXTURE - CONTROL TABLE**

MIXTURE USE	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
AC	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	15%	25%	25%
PERCENT AIR VOIDS	4.0% @ 50 GYR	4.0% @ 50 GYR	4.0% @ 50 GYR

NOTE: SURFACE AND BINDER INCLUDES SHOULDER  
 NOTE: THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS SURFACE MIXTURE IS 112 LB./SQ. YD. PER INCH THICKNESS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL WEST APPROACH SECTIONS T.R. 0083 (STREIT ROAD) OVER NORTH BRANCH OF THE KISHAWAUKEE RIVER T.R. 0083 SECTION 02-00270-00-BR McHENRY COUNTY S.N. 056-3067	
SCALE: VERT. HORIZ. DATE: 8/8/2006	DRAWN BY: JBH CHECKED BY: AJS

TIME:

DATE:

FILENAME: s:\06\001-850\002\007\mchens\shmdr-roads\typical sections.dgn