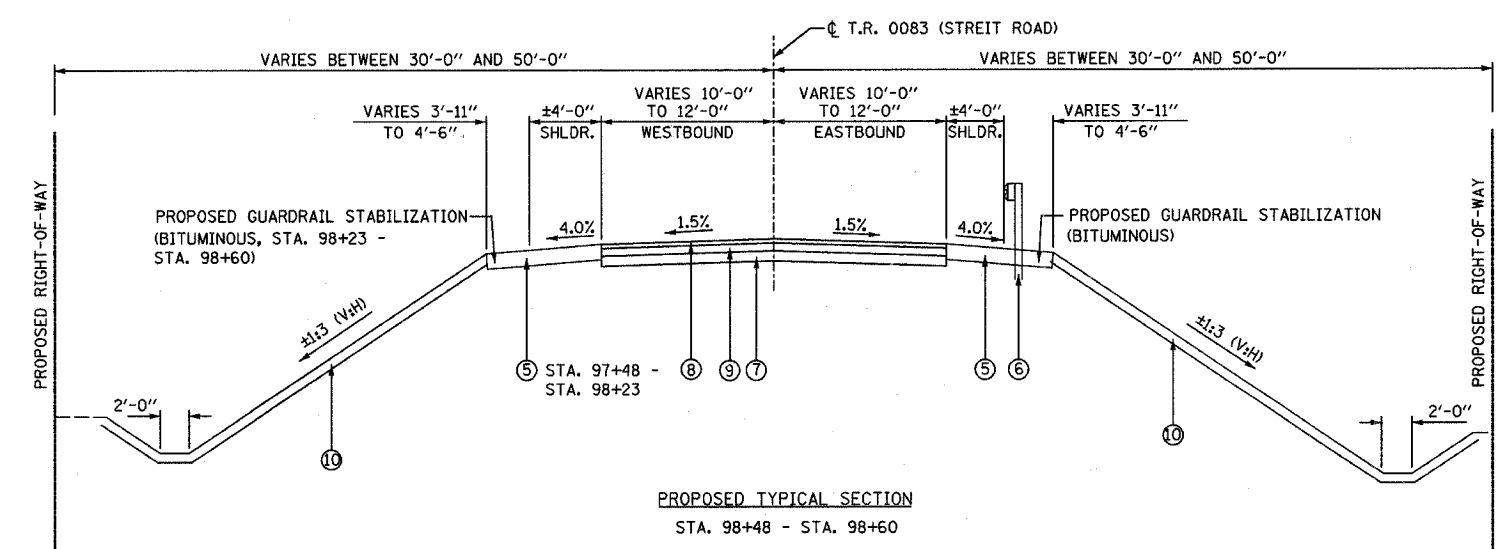


- LEGEND**
- ① EXISTING TURF SHOULDER
 - ② EXISTING BITUMINOUS CONCRETE (VARIES BETWEEN 1.5" AND 2.5")
 - ③ EXISTING AGGREGATE BASE COURSE, 8"
 - ④ BITUMINOUS SURFACE REMOVAL (VARIED DEPTH)
 - ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4" MIN.
 - ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A
 - ⑦ SUB-BASE GRANULAR 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_t = 2.5

PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: BITUMINOUS; a₁ = 0.44
 BASE COURSE TYPE: BITUMINOUS; a₂ = 0.33
 SUBBASE TYPE: AGGREGATE (CRUSHED); a₃ = 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 KISHWAUKEE 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\001-288\0270\02\mchry\shas\roadway\typical sections.dgn