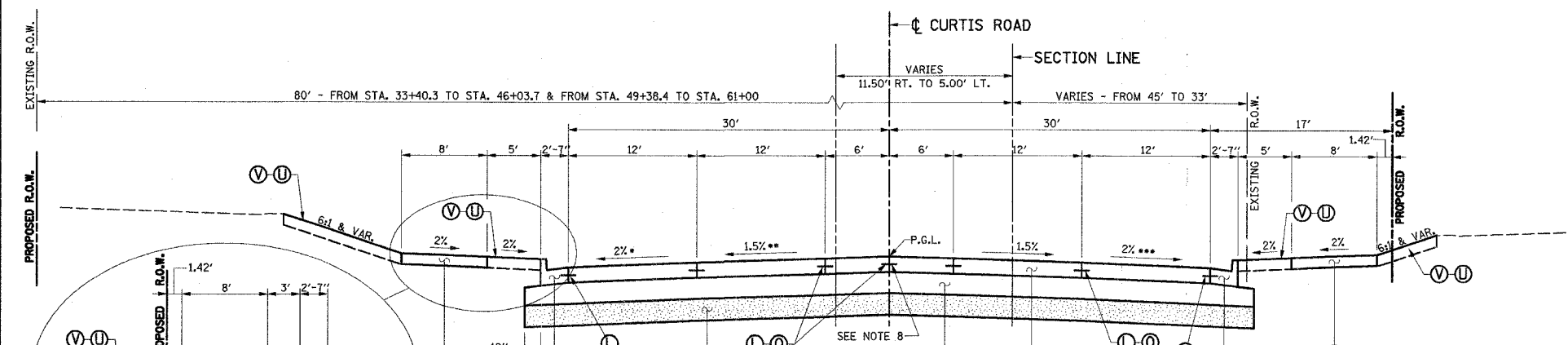


**PROPOSED TYPICAL CROSS SECTION
CURTIS ROAD
STA. 31+00 TO STA. 32+00**

**CURTIS ROAD
PAVEMENT CROSS SLOPE**

- TRANSITION PAVEMENT SLOPE FROM -2% AT STA. 31+10 TO -1.5% AT STA. 31+40, THEN TO -0.5% AT STA. 32+00
- TRANSITION PAVEMENT SLOPE FROM -1.5% AT STA. 31+40 TO -0.5% AT STA. 32+00
- TRANSITION PAVEMENT SLOPE FROM -2% AT STA. 31+10 TO -1.5% AT STA. 31+40

- PROPOSED TYPICAL SECTION KEY**
- (A) SUB-BASE GRANULAR MATERIAL, TYPE A 12"
 - (B) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
 - (C) AGGREGATE SUBGRADE, SPECIAL (SEE NOTE 6)
 - (D) AGGREGATE BASE COURSE, TYPE A 8"
 - (E) AGGREGATE SHOULDERS, TYPE B 4"
 - (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (G) PORTLAND CEMENT CONCRETE SIDEWALK 6"
 - (H) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (I) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
 - (J) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - (K) CONCRETE GUTTER, TYPE A
 - (L) LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 X 30" EPOXY COATED TIE BARS AT 24" CENTERS FORMED IN PLACE (STD. 420001)
 - (M) LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 X 24" EPOXY COATED TIE BARS AT 24" CENTERS FORMED IN PLACE (STD. 420001)
 - (N) NOT USED
 - (O) SAWED LONGITUDINAL JOINT WITH NO. 6 X 30" EPOXY COATED TIE BARS AT 30" CENTERS (STD. 420001)
 - (P) BITUMINOUS MATERIALS (PRIME COAT) - 0.50 GAL/SQ YD
 - (Q) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70
 - (R) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70
 - (S) BITUMINOUS SHOULDERS SUPERPAVE 5"
 - (T) MODULAR BLOCK RETAINING WALL
 - (U) TOPSOIL 6"
 - (V) SEEDING AND MULCH
 - (W) SODDING



**PROPOSED TYPICAL CROSS SECTION
CURTIS ROAD
STA. 32+00 TO STA. 61+00**

**CURTIS ROAD
PAVEMENT CROSS SLOPE**

- TRANSITION PAVEMENT SLOPE FROM -0.5% AT STA. 33+40 TO -1.5% AT STA. 34+00, THEN TO -2% AT STA. 34+30
- TRANSITION PAVEMENT SLOPE FROM -0.5% AT STA. 33+40 TO -1.5% AT STA. 34+00
- TRANSITION PAVEMENT SLOPE FROM -1.5% AT STA. 34+00 TO -2% AT STA. 34+30

BITUMINOUS CONCRETE MIXTURE REQUIREMENTS TABLE

LOCATION MIXTURE USE:	(B) ALL SURFACE	(Q) ALL BINDER	(S) ALL SHOULDERS BOTTOM 3" LIFT	(S) ALL SHOULDERS TOP 2" LIFT	ALL INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 64-22
RAP % (MAX)	10	15	30	30	15
DESIGN AIR VOIDS	4.0% @ NDES = 70	4.0% @ NDES = 70	2.0% @ NDES = 30	3.0% @ NDES = 30	4.0% @ NDES = 50
MIXTURE COMPOSITION (GRADATION)	IL 9.5	IL 19.0	B.A.M.	IL 9.5 L	IL 9.5
FRICITION AGGREGATE	MIXTURE D	N/A	N/A	MIXTURE C	MIXTURE C

NOTE: IF AN ANTI-STRIPPING ADDITIVE IS REQUIRED FOR ANY BITUMINOUS MIXTURE, THE COST OF THE ADDITIVE WILL NOT BE PAID FOR SEPARATELY AS DESCRIBED IN ARTICLE 406.24 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACTOR ANTICIPATES THAT AN ADDITIVE WILL BE NEEDED, THE COST SHOULD BE INCLUDED IN THE UNIT BID PRICE.

NOTES

- SEE INTERSECTION AND PAVEMENT JOINT DETAILS FOR LOCATIONS OF LONGITUDINAL AND TRANSVERSE JOINTS.
- SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF EDGES OF PAVEMENTS, CURBS AND GUTTERS, SIDEWALKS AND RIGHT-OF-WAY LINES. SEE CROSS SECTIONS FOR EXACT SIDE SLOPE RATIOS.
- THE TOPSOIL THAT IS EXCAVATED SHALL BE STOCKPILED AND USED FOR TOPSOIL PLACEMENT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR TOPSOIL EXCAVATION AND PLACEMENT. THE EXCESS VOLUME OF TOPSOIL EXCAVATED AND NOT USED FOR TOPSOIL PLACEMENT SHALL BE PLACED AS EMBANKMENT IN FILL AREAS BEHIND THE PROPOSED BACK OF THE CURBS. TOPSOIL WILL NOT BE ALLOWED TO BE PLACED AS FILL UNDER PAVEMENTS OR SIDEWALKS. THE EXCESS VOLUME OF TOPSOIL EXCAVATED WHICH IS NOT USED FOR TOPSOIL PLACEMENT OR PLACED IN THE EMBANKMENT AREAS AND IS WASTE AND IS REMOVED AND DISPOSED OF OFF THE SITE WILL NOT BE PAID FOR SEPARATELY AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. EMBANKMENT WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE OTHER EARTHWORK ITEMS.
- THE FINISHED EARTHWORK SHALL HAVE VEGETATIVE SUSTAINING SOIL COVERING THE TOP 6" OF AREAS TO BE SODDED OR SEEDDED. THE CONTRACTOR SHALL STOCKPILE TOPSOIL FROM THE EXCAVATION OPERATIONS. THE TOPSOIL SHALL MEET THE REQUIREMENTS OF ARTICLE 10B.05 OF THE STANDARD SPECIFICATIONS OR BE APPROVED BY THE ENGINEER. THE VEGETATIVE SUSTAINING SOIL REQUIRED WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR TOPSOIL EXCAVATION AND PLACEMENT.
- ALL EXPOSED EARTH AREAS SHALL BE SEEDDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. SEEDING, CLASS 1 (SPECIAL) & CLASS 2, MULCH (SPECIAL), AND MULCH METHOD 2, PROCEDURE 2 SHALL BE USED AT THE LOCATIONS DESIGNATED IN THE SEEDING SCHEDULE.
- THE EXISTING EARTH SHALL BE UNDERCUT BELOW THE PROPOSED PAVEMENT TO THE DEPTH AND LOCATION SHOWN ON THE CROSS SECTIONS. AGGREGATE SUBGRADE, SPECIAL SHALL BE PLACED AND COMPACTED IN THE UNDERCUT AREAS. THE EARTH FROM THE UNDERCUT AREAS SHALL BE PLACED AS EMBANKMENT IN FILL AREAS BEHIND THE PROPOSED BACK OF CURBS. SEE THE CROSS SECTIONS AND THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- THE WIDTH OF MEASUREMENT FOR SUB-BASE GRANULAR MATERIAL SHALL BE THE TOP WIDTH AS SHOWN IN THE TYPICAL SECTIONS.
- THE CENTERLINE LONGITUDINAL JOINT WILL NOT BE REQUIRED IN AREAS WHERE THE CENTER PAVEMENT SLAB CAN BE CONSTRUCTED FULL WIDTH. THE MAXIMUM WIDTH OF THE CENTER SLAB IS 12'.

STRUCTURAL PAVEMENT DESIGN INFORMATION

CURTIS ROAD

STRUCTURAL DESIGN TRAFFIC: YEAR 2026

PV = 11828 SU = 374 MU = 249

ROAD/STREET CLASSIFICATION: CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 50% S = 50% M = 50%

TRAFFIC FACTOR: TF = 2.06

SUBGRADE SUPPORT RATING: SSR = "POOR"

MINIMUM STRUCTURAL DESIGN REQUIREMENTS:

P.C. CONCRETE PAVEMENT = 8" (USE 9")

SUBBASE GRANULAR MATERIAL = 12"

SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF EXISTING R.O.W., PROPOSED R.O.W., PROPOSED PERMANENT EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

DATE: 8-05
DRAWN BY: S.M.W.
CHECKED BY: R.L.H.