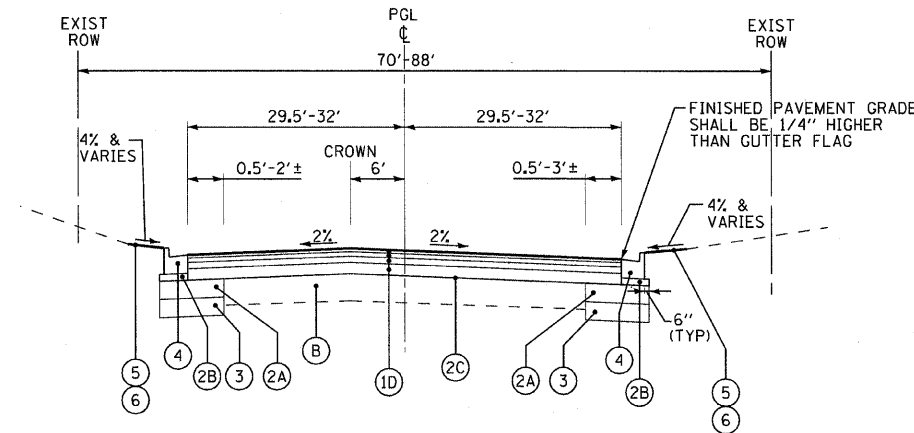


STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC 2021			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D HMA THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
PEACE ROAD	24,245	285	2,037	1	9.19	POOR	78° F	54	PG 58-28	510	15.75	FULL DEPTH PAVEMENT 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 2 3/4" HOT-MIX BINDER COURSE, IL-19.0, N70 11" HOT-MIX BINDER COURSE, IL-19.0, N70 12" AGGREGATE SUBGRADE



**PROPOSED TYPICAL SECTION
PEACE ROAD**
STA. 146+00 TO STA. 149+00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	HMA BINDER & PATCHES	HMA SURFACE	TEMP. PAVEMENT
PG GRADE	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N50
MIXTURE COMPOSITION	IL. 19.0	IL. 9.5	IL. 19.0
FRICTION AGGREGATE		MIXTURE D	
DENSITY TEST METHOD	CORES/CORRELATION	CORES/CORRELATION	CORES/CORRELATION

- MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.
- WHEN RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE (i.e. 25% RAP WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO A PG58-22).

EXISTING LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT 7.5"±
- (B) AGGREGATE BASE COURSE 20"±
- (C) AGGREGATE SHOULDER
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18
- (E) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.18
- (F) EXISTING GUARDRAIL
- (G) GROUND SURFACE
- (H) PAVEMENT REMOVAL
- (I) AGGREGATE BASE COURSE GRADING (SEE NOTE 1) (INCLUDED IN PREPARATION OF BASE)
- (J) COMBINATION CURB AND GUTTER REMOVAL
- (K) GUARDRAIL REMOVAL
- (L) AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)
- (M) ITEM TO BE REMOVED

PROPOSED LEGEND

- (1A) HOT-MIX ASPHALT - OVERLAY - 7" SURFACE COURSE, MIX "D" N70 - 2" BINDER COURSE, IL-19.0, N70 - 2.75" BINDER COURSE, IL-19.0, N70 - 2.25" (SEE NOTE 4)
- (1B) HOT-MIX ASPHALT - OVERLAY - 8.75" SURFACE COURSE, MIX "D" N70 - 2" BINDER COURSE, IL-19.0, N70 - 2.75" BINDER COURSE, IL-19.0, N70 - 4" (SEE NOTE 4)
- (1C) HOT MIX ASPHALT - 15.75" SURFACE COURSE, MIX "D" N70 - 2" BINDER COURSE, IL-19.0, N70 - 2.75" BINDER COURSE, IL-19.0, N70 - 2.25" (SEE NOTE 4) BINDER COURSE, IL-19.0, N70 - 8.75" (SEE NOTE 5)
- (1D) HOT MIX ASPHALT - 15.75" SURFACE COURSE, MIX "D" N70 - 2" BINDER COURSE, IL-19.0, N70 - 2.75" BINDER COURSE, IL-19.0, N70 - 4" (SEE NOTE 4) BINDER COURSE, IL-19.0, N70 - 7" (SEE NOTES 3 & 5)
- (2A) AGGREGATE, SUBGRADE - 12"
- (2B) AGGREGATE BASE COURSE, TYPE B - 4"
- (2C) PREPARATION OF BASE (SEE NOTE 1)
- (3) POROUS GRANULAR EMBANKMENT, SUBGRADE AND GEOTECHNICAL FABRIC (SEE NOTE 2)
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (11.5" FLAG DEPTH)
- (5) TOPSOIL, FURNISH AND PLACE, 4"
- (6) SEEDING, CLASS 2, FERTILIZER AND EROSION BLANKET
- (7) CLASS D PATCHES TYPE I-IV, 8" (SEE NOTE 6)
- (8) STEEL PLATE BEAM GUARDRAIL, TYPE A

NOTES:

- GRADE EXCESS AGGREGATE BASE COURSE INTO WIDENING AREA.
- POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLES 301.03 AND 301.04. IF UNSTABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

THE FOLLOWING LIMITS OF UNSTABLE SOILS HAVE BEEN IDENTIFIED FOR ESTIMATING PURPOSES:

ROADWAY	LIMITS	ESTIMATED UNDERCUT
PEACE ROAD	STA. 137+50 TO STA. 140+50	6"
PEACE ROAD	STA. 146+45 TO STA. 149+00	3"
- REPLACE ASPHALT BINDER COURSE WITH PCC BASE COURSE WIDENING 7" WHERE ASPHALT WIDENING IS LESS THAN 12" WIDE.
- TRANSITION BINDER DEPTH FROM 2.25" TO 4" FROM STA. 133+50 TO STA. 135+00.
- TRANSITION BINDER DEPTH FROM 8.75" TO 7" FROM STA. 133+50 TO STA. 135+00.
- AS DETERMINED BY THE ENGINEER.

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 LICENSE NO. 06-00121 EXPIRES 4/30/2011
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DESIGNED - DJS	REVISED - 08-4-2010 IDOT REVIEW
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 05-03-2010	FILE NAME - 081068-sht-typical.dgn

**CITY OF DeKALB, ILLINOIS
PEACE ROAD
IMPROVEMENTS**

**TYPICAL SECTIONS AND
STRUCTURAL DESIGN DATA**

SCALE: NONE

STA. 146+00 TO STA. 149+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5369	06-00172-00-WR	DeKALB	64	12
				CONTRACT NO. 87465
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT M-5017 (043)				