

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	THIS SHEET
F.A.U. 6739	*	TAZEWELL	36	3
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	M-5093-129
* 05-00103-00-FP CONTRACT NO. 89493				

**LEGEND**

① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	⑧ EXISTING COMB. CONC. CURB AND GUTTER, TYPE B-6.12 TO REMAIN IN PLACE
② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"	⑨ TOPSOIL FURNISH AND PLACE, 4"
③ AGGREGATE BASE COURSE, TYPE B, 9"	⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 4"
④ BITUMINOUS MATERIALS (PRIME COAT)	A EXISTING SURFACE COURSE
⑤ SUBBASE GRANULAR MATERIAL, TYPE B	B EXISTING BINDER COURSE
⑥ TILLING AND RESHAPING	C EXISTING GRAVEL BASE
⑦ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	

**DALLAS ROAD**

STRUCTURAL DESIGN TRAFFIC: 2023 (4100)  
 PV = 4039 (98.5%) SU = 41 (1.0%)  
 MU = 20 (0.5%)  
 STREET CLASSIFICATION: CLASS II  
 TRAFFIC FACTOR = 0.11  
 PG BINDER GRADE: PG 64-22  
 HMA MIXTURE TEMPERATURE = 75.5  
 HMA DESIGN MODULUS, E<sub>acc</sub> = 667  
 HMA DESIGN STRAIN = 2B4  
 HMA STRAIN (THICKNESS) = 3.55"

USE:  
 HMA SURFACE COURSE, MIX D, N50, 2"  
 HMA BINDER COURSE, IL-19.0, N50, 2 1/2"  
 AGGREGATE BASE COURSE, TYPE B, 9"

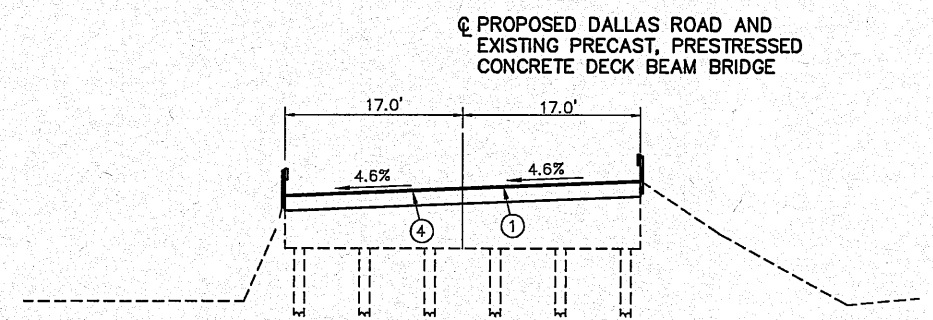
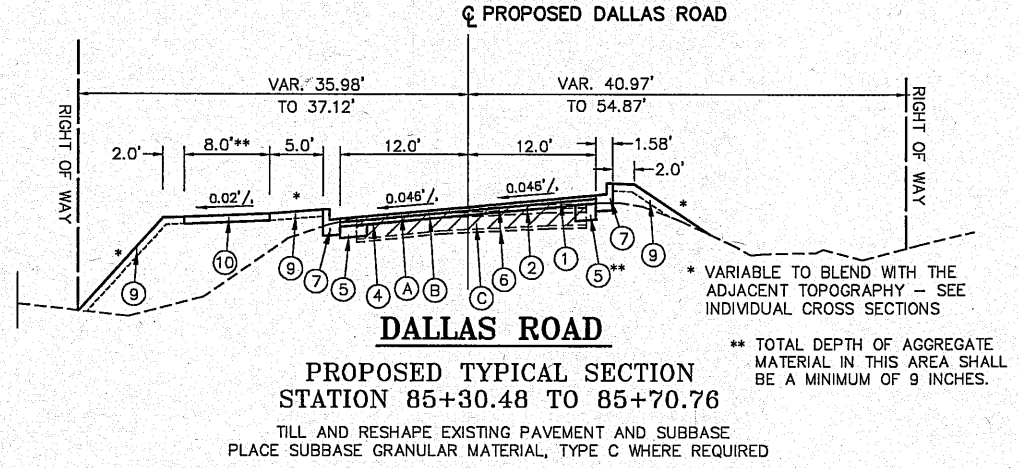
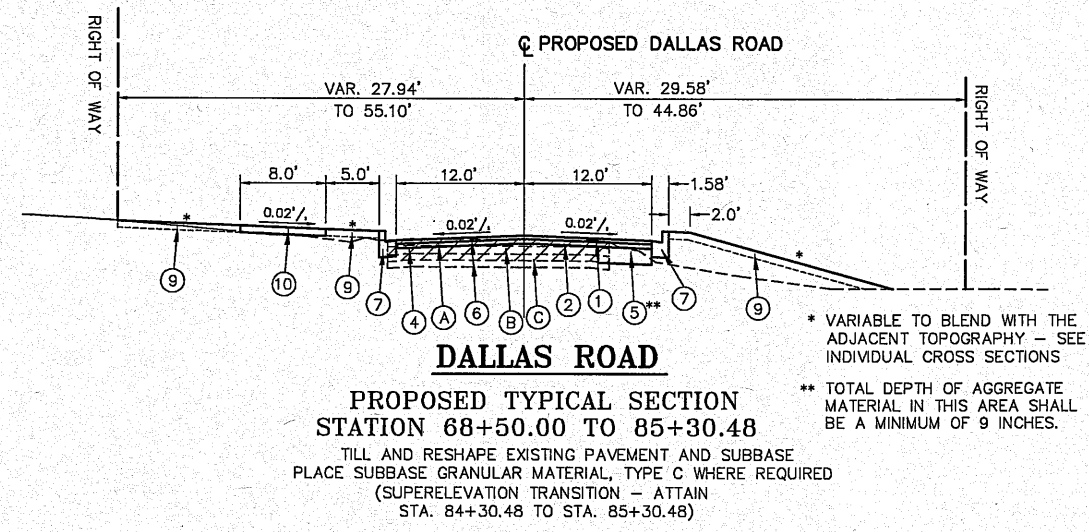
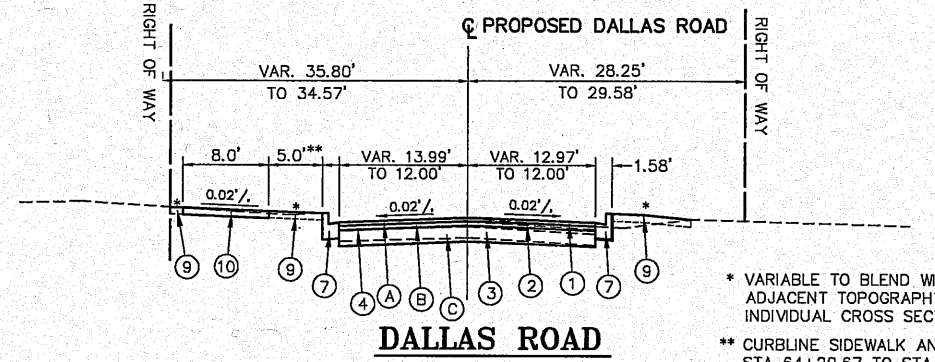
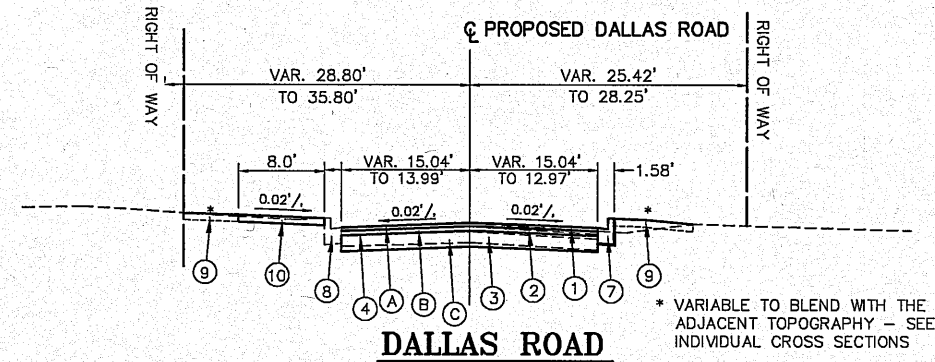
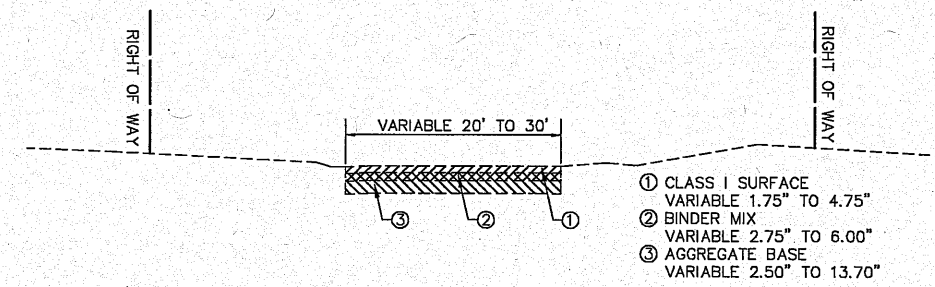
**BIT. MIX REQUIREMENTS**

LOCATION (S) AND MIXTURE USE (S):	BIT. CONC. SURFACE COURSE	BIT. CONC. BINDER COURSE
AC/PG:	PG 64-22	PG 64-22
RAP % : (MAX)	15%	25%
DESIGN AIR VOIDS:	4.0% @ N = 50	4.0% @ N = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 or IL 12.5	IL 19.0
FRICITION AGGREGATE:	MIXTURE D	N/A

\*\* IF > 15% RAP IS USED, THE CONTRACTOR MAY BE REQUIRED TO USE A SOFTER GRADE OF ASPHALT AS DETERMINED BY THE MATERIALS ENGINEER:

**DALLAS ROAD PAVEMENT INVESTIGATION SUMMARY**

CORE SAMPLE NUMBERS	CORE SAMPLE LOCATION	SAMPLE DEPTH INCHES	PAVEMENT MATERIAL CLASSIFICATION
C-6	STATION 84+50 4' RT. OF CENTERLINE	0.00 - 1.75	CLASS I SURFACE (1.75")
		1.75 - 4.63	CLASS I BINDER (2.88")
		4.63 - 14.50	CA-6 GRAVEL (10.00")
C-5	STATION 83+00 CENTERLINE	0.00 - 1.00	CLASS I SURFACE (1.00")
		1.00 - 2.70	CLASS I BINDER (1.70")
		2.70 - 16.40	BROWN SAND & GRAVEL (CA-6) (13.70")
C-6	STATION 81+50 3' RT. OF CENTERLINE	0.00 - 4.00	CLASS I SURFACE (4.00")
		4.00 - 9.75	CLASS B MIX (5.75")
		9.75 - 16.00	CA-6 GRAVEL (6.25")
C-7	STATION 78+50 4' LT. OF CENTERLINE	0.00 - 2.75	CLASS I SURFACE (2.75")
		2.75 - 6.87	CLASS B MIX (4.12")
		6.87 - 17.00	CA-6 GRAVEL (10.00")
C-8	STATION 77+25 CENTERLINE	0.00 - 2.40	CLASS I SURFACE (2.40")
		2.40 - 3.90	CLASS I SURFACE (1.50")
		3.90 - 7.75	CLASS I BINDER (3.85")
C-9	STATION 75+50 CENTERLINE	0.00 - 4.00	CLASS I SURFACE (4.00")
		4.00 - 7.00	CLASS B MIX (3.00")
		7.00 - 14.00	CA-6 GRAVEL (7.00")
C-10	STATION 72+50 2' LT. OF CENTERLINE	0.00 - 3.75	CLASS I SURFACE (3.75")
		3.75 - 9.75	CLASS B MIX (6.00")
		9.75 - 17.75	CA-6 GRAVEL (8.00")
C-11	STATION 69+50 4' RT. OF CENTERLINE	0.00 - 4.00	CLASS I SURFACE (4.00")
		4.00 - 7.00	CLASS B MIX (3.00")
		7.00 - 14.00	CA-6 GRAVEL (7.00")
C-12	STATION 66+50 4' LT. OF CENTERLINE	0.00 - 4.00	CLASS I SURFACE (4.00")
		4.00 - 8.25	CLASS B MIX (4.25")
		8.25 - 10.75	CA-5 GRAVEL (2.50")
C-13	STATION 63+50 3' RT. OF CENTERLINE	0.00 - 1.75	CLASS I SURFACE (1.75")
		1.75 - 4.50	CLASS B MIX (2.75")
		4.50 - 10.75	CA-6 GRAVEL (6.25")



TYPICAL SECTIONS DALLAS ROAD - PHASE ONE	AUSTIN ENGINEERING CO., INC. CIVIL ENGINEERS		
FOR: CITY OF WASHINGTON	REVISION	REVISION	PROJECT NUMBER 20-07-005
DATE 09/13/10	SCALE	BOOK	SHEET NO. 3 OF 36