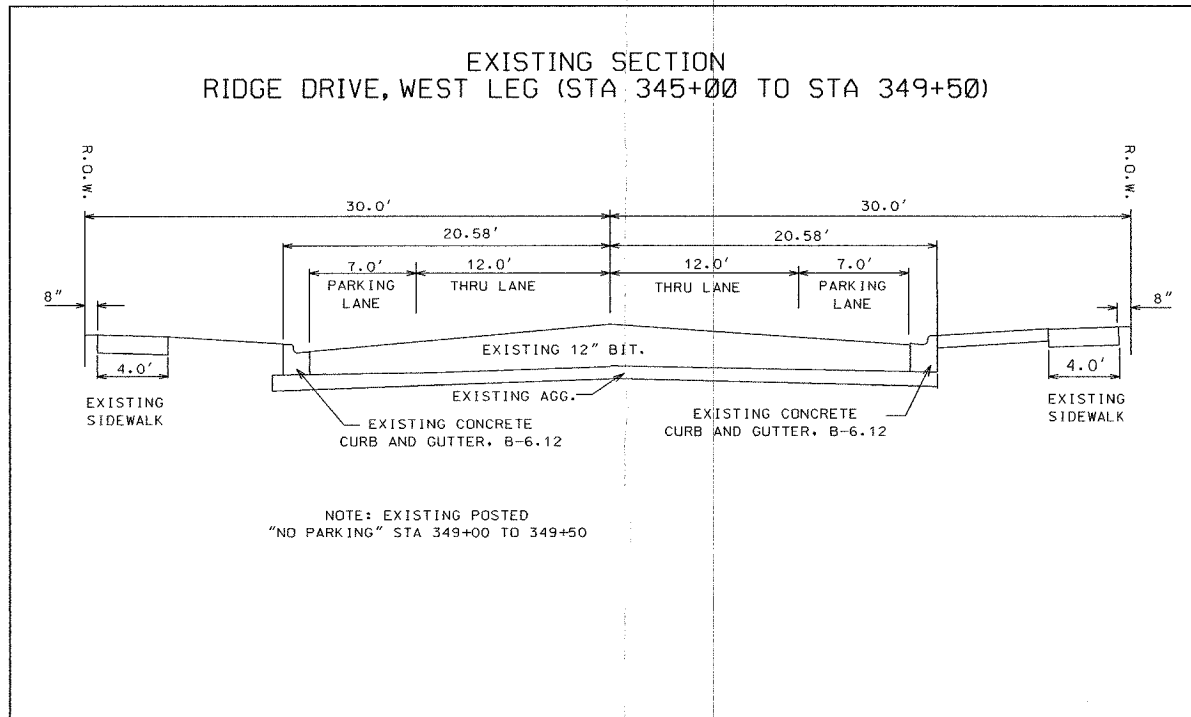
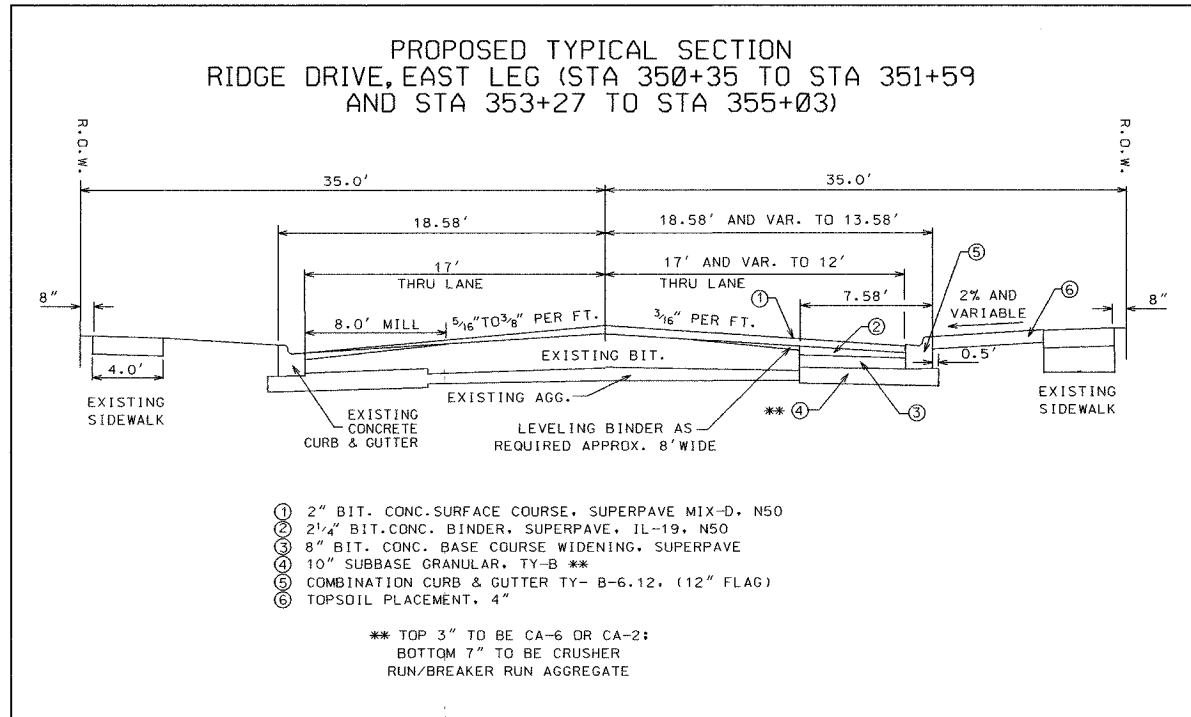


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5349	04-00170-00-SP	DEKALB	17	5
TYPICAL SECTIONS				
F.H.W.A. REG. 5 ILLINOIS FED. AID PROJECT				



NOTE: EXISTING POSTED "NO PARKING" STA 349+00 TO 349+50

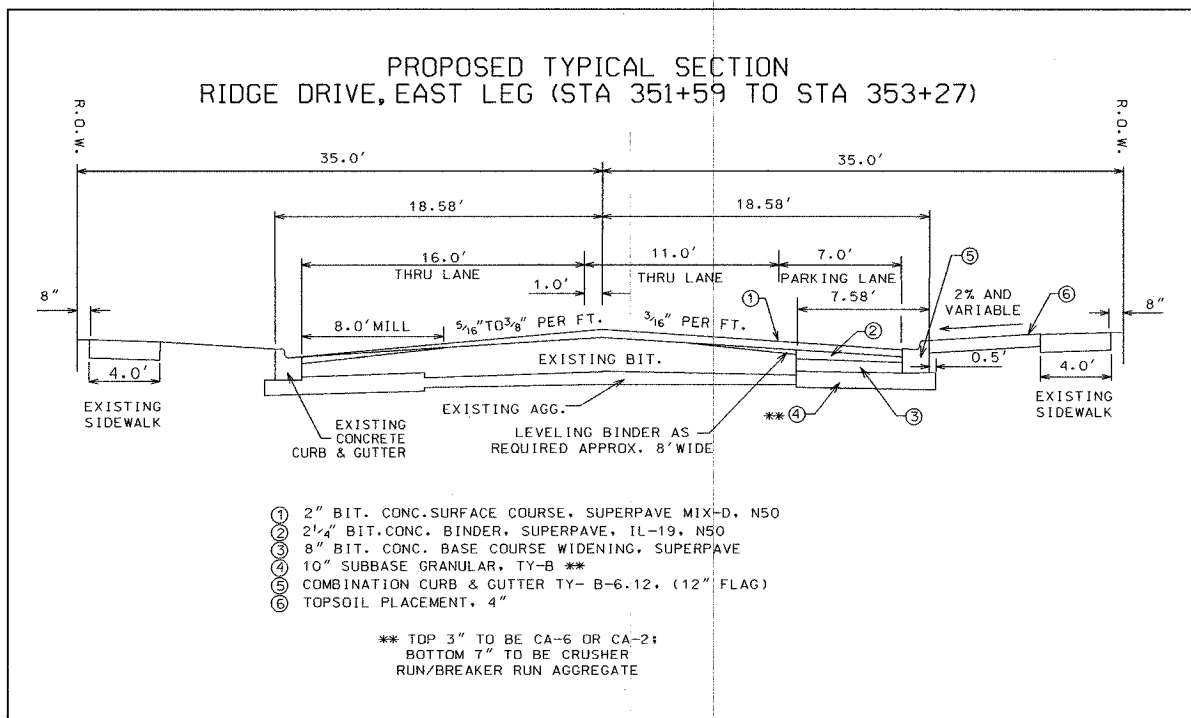
CITY OF DEKALB STREET STANDARD	REVISIONS RBR 12/8/04	STANDARD DETAIL FOR TYPICAL SECTION
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- ① 2" BIT. CONC. SURFACE COURSE, SUPERPAVE MIX-D, N50
- ② 2 1/4" BIT. CONC. BINDER, SUPERPAVE, IL-19, N50
- ③ 8" BIT. CONC. BASE COURSE WIDENING, SUPERPAVE
- ④ 10" SUBBASE GRANULAR, TY-B **
- ⑤ COMBINATION CURB & GUTTER TY- B-6.12, (12" FLAG)
- ⑥ TOPSOIL PLACEMENT, 4"

** TOP 3" TO BE CA-6 OR CA-2;
BOTTOM 7" TO BE CRUSHER RUN/BREAKER RUN AGGREGATE

CITY OF DEKALB STREET STANDARD	REVISIONS RBR 2/28/05	STANDARD DETAIL FOR TYPICAL SECTION
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- ① 2" BIT. CONC. SURFACE COURSE, SUPERPAVE MIX-D, N50
- ② 2 1/4" BIT. CONC. BINDER, SUPERPAVE, IL-19, N50
- ③ 8" BIT. CONC. BASE COURSE WIDENING, SUPERPAVE
- ④ 10" SUBBASE GRANULAR, TY-B **
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CITY OF DEKALB STREET STANDARD	REVISIONS RBR 2/28/05	STANDARD DETAIL FOR TYPICAL SECTION
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PAVEMENT DESIGN DATA
RIDGE DRIVE WIDENING

Design Period = 20 years (construction in 2005)
Structural Design Traffic = 10 years (2015)
Road/Street Classification: Class II-2 lane-ADT 6800
Percent of Structural Design Traffic in Design Lane
PV = 6664 (98%) SU = 102 (1.5%) MU = 34 (0.5%)
Flexible Traffic Factor (Modified AASHTO) = 0.25535
Structural No. = 3.45 for IBR = 3

Existing Pavement Section after resurfacing in 1995
2" Bituminous Conc. Surface (overlay) 2*0.4 = 0.80
1 1/2" Bituminous Surface 1.5*0.3 = 0.45
1 1/2" Bit. Conc. Binder 1.5*0.23 = 0.34
8" Bit. Base (BAM) 8*0.21 = 1.68
6" Subbase Granular, Ty-B 6*0.09 = 0.54
Total Existing Structural No. 3.81
Proposed Existing Section, 2" Bit Surf Overlay 2*0.40 = 0.80
Proposed Existing Section Struct. No. 4.61

Proposed Pavement Widening Section:
2" Bituminous Surface - Superpave 2*0.40 = 0.80
2 1/4" Bituminous Binder - Superpave 2 1/4*0.33 = 0.74
8" Bituminous Base Cse. (MS = 1700) 8*0.33 = 2.64
10" Aggregate Base Cse, Ty-B 10*0.11 = 1.10
Proposed Structural No. = 5.28

City of DeKalb requires Major Collector SN= 4.0 as a minimum

MIXTURE REQUIREMENTS

Mixture use:	Surface	Binder	Leveling Binder	Base Course Widening
PG	PG 64-22	PG 64-22	PG 64-22	PG 58-22
RAP % (max)	10%	15%	10%	25%
Design Air Voids	4.2% @ N-50	4.2% @ N-50	4.2% @ N-50	2.0% @ N-50
Mixture Composition	IL - 9.5 or IL - 12.5	IL - 19.0	IL - 9.5	IL - 19.0
Gradation Mixture Friction Aggregate	D			