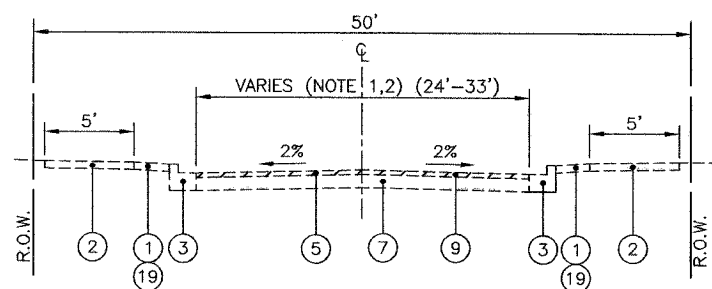
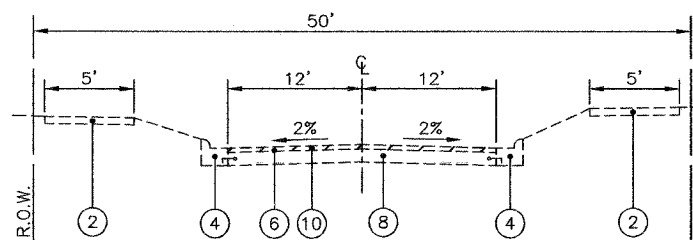


FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1693	05-00071-00-RS	COOK	14	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83848				



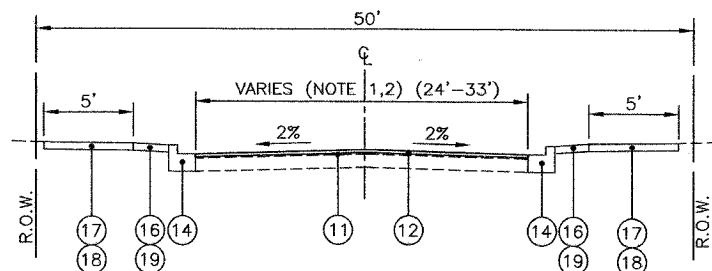
EXISTING TYPICAL SECTION
EAST QUINCY STREET

RIVERSIDE ROAD TO STA. 114+70



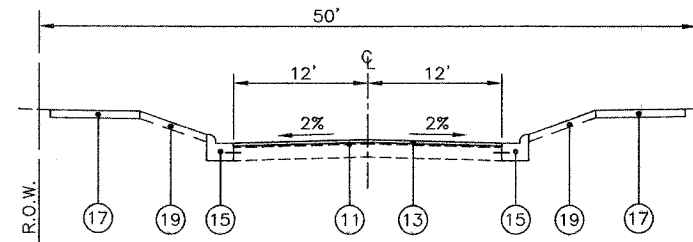
EXISTING TYPICAL SECTION
EAST QUINCY STREET

STA. 114+70 TO HARLEM AVENUE (IL. 43)



PROPOSED TYPICAL SECTION
EAST QUINCY STREET

RIVERSIDE ROAD TO STA. 114+70



PROPOSED TYPICAL SECTION
EAST QUINCY STREET

STA. 114+70 TO HARLEM AVENUE (IL. 43)

LEGEND

- ① EXISTING PCC SIDEWALK (NOTE 1)
- ② EXISTING PCC SIDEWALK (PEA GRAVEL MIX) (NOTE 2)
- ③ EXISTING CURB AND GUTTER, TYPE B-6.18 (NOTE 1)
- ④ EXISTING CURB AND GUTTER, TYPE M-4.18 (NOTE 2)
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE (APPROX. 2" THICK)
- ⑥ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, (APPROX. 1-1/2" THICK)
- ⑦ EXISTING BITUMINOUS BASE COURSE, (APPROX. 6" THICK)
- ⑧ EXISTING PCC BASE COURSE (APPROX. 10" THICK)
- ⑨ PROPOSED BITUMINOUS SURFACE REMOVAL, 2"
- ⑩ PROPOSED BITUMINOUS SURFACE REMOVAL, 1-1/2" (CONTRACTOR SHALL REMOVE ALL BITUMINOUS FROM EXISTING CONCRETE BASE. COST INCLUDED WITH REMOVAL)
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 0"-1/2"
- ⑫ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 2"
- ⑬ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1-1/2"
- ⑭ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (NOTE 1) (AS DIRECTED BY THE ENGINEER)
- ⑮ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18 (NOTE 2) (AS DIRECTED BY THE ENGINEER)
- ⑯ PROPOSED PCC SIDEWALK, 5 INCH (NOTE 1,3)
- ⑰ PROPOSED PCC SIDEWALK, 5 INCH (PEA GRAVEL MIX), (NOTE 2,3) OR PROPOSED PCC SIDEWALK, 7 INCH (PEA GRAVEL MIX). (NOTE 2,3)
- ⑱ PROPOSED PCC SIDEWALK, 5 INCH (SWANEE MIX) (NOTE 1,3)
- ⑲ TOPSOIL FURNISH AND PLACE 4" SEEDING (AS DIRECTED BY THE ENGINEER)

NOTE 1: RIVERSIDE ROAD TO STA. 105+60 (33' E-E)
NOTE 2: STA. 105+60 TO HARLEM AVENUE (24' E-E)
NOTE 3: MINIMUM 2 INCH CA-6 SUBBASE REQUIRED (COST INCLUDED WITH SIDEWALK)

PAVEMENT DESIGN CALCULATIONS			
DATE:	November 15, 2005		
IMPROVEMENT TYPE:	FLEXIBLE PAVEMENT CROSS SECTION (RESURFACING)		
LOCATION:	EAST QUINCY STREET - Village of Riverside FAU 1693 Riverside Road to South Cowley Road		
CLASSIFICATION OF ROADWAY:	CLASS II ROADWAY (ADT > 2000)		
TRAFFIC FACTOR = DP(((0.073*PV)+(44.530*SU)+(156.403*MU))/1000000)			
DESIGN LANE VOLUME % OF ADT	= 50 % TRUCKS	50 % PASS. VEHICLES	
DESIGN PERIOD, YEARS (DP)	= 20 YEARS		
% OF PASSENGER VEHICLES (PV)	= 98.50 %		
% OF SINGLE UNIT TRUCKS (SU)	= 1.40 %		
% OF MULTI UNIT TRUCKS (MU)	= 0.10 %		
AVERAGE DAILY TRAFFIC	= 2000	TRAFFIC FACTOR.....	= 0.017035
DESIGN LANE VOLUME	= 1000		
NO. OF PASSENGER VEHICLES	= 985	LB.R.....	= 2.5
NO. OF SINGLE UNIT TRUCKS	= 14		
NO. OF MULTI UNIT TRUCKS	= 1	STRUCTURAL NUMBER (D _s)	= 2.30
PROPOSED PAVEMENT CROSS SECTION			
MATERIAL THICKNESS	STRUCTURAL MATERIAL	COEFFICIENT	D _t
2.00	BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX C, N50	0.40	0.80
0.50	POLYMERIZED LEVELING BINDER (MM), SUPERPAVE, IL-4.75, N50	0.33	0.17
6.00	EXISTING BITUMINOUS BASE COURSE	0.23	1.38
4.00	EXISTING AGGREGATE BASE COURSE	0.11	0.44
TOTAL D _t PROVIDED =			2.79

PAVEMENT DESIGN CALCULATIONS			
DATE:	November 15, 2005		
IMPROVEMENT TYPE:	COMPOSITE PAVEMENT CROSS SECTION (RESURFACING)		
LOCATION:	EAST QUINCY STREET - Village of Riverside FAU 1693 South Cowley Road to Harlem Avenue (IL RT 43)		
CLASSIFICATION OF ROADWAY:	CLASS II ROADWAY (ADT > 2000)		
TRAFFIC FACTOR = DP(((0.073*PV)+(44.530*SU)+(156.403*MU))/1000000)			
DESIGN LANE VOLUME % OF ADT	= 50 % TRUCKS	50 % PASS. VEHICLES	
DESIGN PERIOD, YEARS (DP)	= 20 YEARS		
% OF PASSENGER VEHICLES (PV)	= 98.50 %		
% OF SINGLE UNIT TRUCKS (SU)	= 1.40 %		
% OF MULTI UNIT TRUCKS (MU)	= 0.10 %		
AVERAGE DAILY TRAFFIC	= 2000	TRAFFIC FACTOR.....	= 0.017035
DESIGN LANE VOLUME	= 1000		
NO. OF PASSENGER VEHICLES	= 985	LB.R.....	= 2.5
NO. OF SINGLE UNIT TRUCKS	= 14		
NO. OF MULTI UNIT TRUCKS	= 1	STRUCTURAL NUMBER (D _s)	= 2.30
PROPOSED PAVEMENT CROSS SECTION			
MATERIAL THICKNESS	STRUCTURAL MATERIAL	COEFFICIENT	D _t
1.50	BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX C, N50	0.40	0.60
0.50	POLYMERIZED LEVELING BINDER (MM), SUPERPAVE, IL-4.75, N50	0.33	0.17
10.00	EXISTING PCC BASE COURSE	0.26	2.60
4.00	EXISTING AGGREGATE BASE COURSE	0.11	0.44
TOTAL D _t PROVIDED =			3.81

BITUMINOUS MIXTURE REQUIREMENT

ITEM	AC TYPE	VOIDS	MAX RAP %
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE IL-4.75 N50	SBS/SBR PG 76-28	2.5%@50 GYR	0
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX C, N50	PG 64-22	4%@50 GYR	15
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL 19.0, N70 (CLASS D PATCHES, 6" & 10")	PG 64-22	4%@70 GYR	15
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL 19.0, N50 (DRIVEWAY BASE, 5")	PG 58-22	4%@50 GYR	25
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX C, N50 (DRIVEWAY SURFACE, 2")	PG 64-22	4%@50 GYR	15

UNIT WEIGHT FOR ALL BITUMINOUS SURFACE MIX IS 112 LBS/SY/IN

REVISIONS	
NO.	DATE
1	12/22/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAU 1693
EAST QUINCY STREET

TYPICAL SECTIONS

SCALE: NTS
DATE:

DRAWN BY: SMP
CHECKED BY: JDM