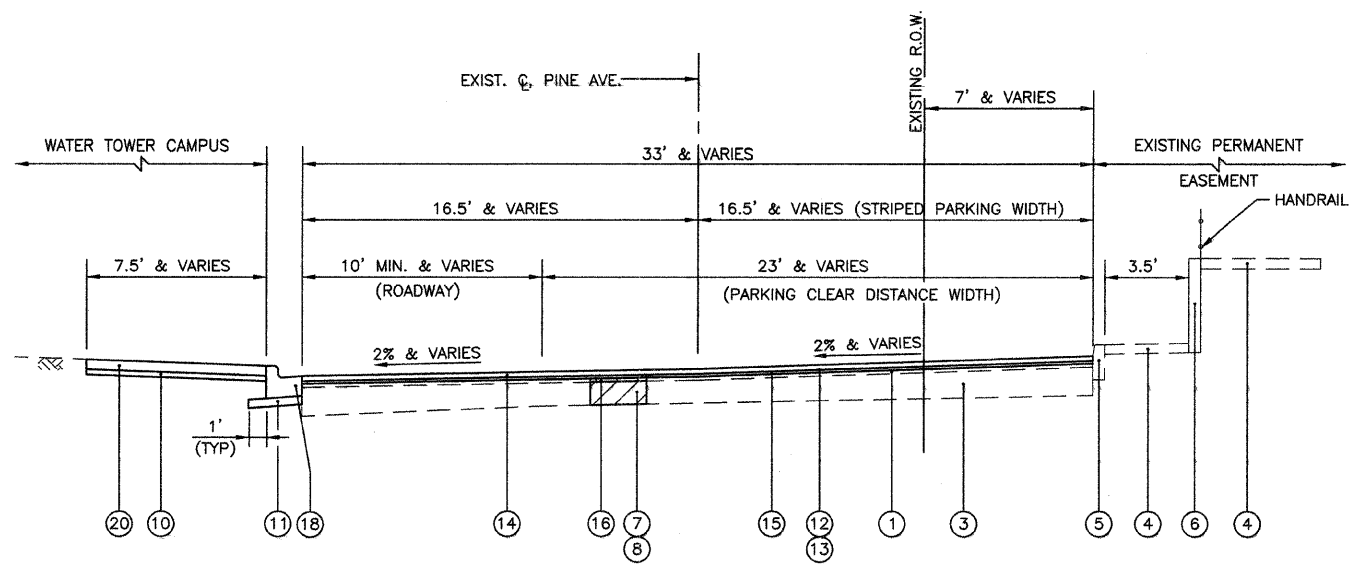


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4724 3568	06-00073-00-LS	COOK	24	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63133				

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	VOIDS
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50, 2 1/2" (IL-9.5mm)	4% @ 50 Gyr.
LEVEL BINDER (MACHINE METHOD), N50, (IL-9.5mm)	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES, 2" (HMA BINDER IL-19mm)	4% @ 70 Gyr.
CLASS D PATCHES, 8" (HMA BINDER IL-19mm)	4% @ 70 Gyr.

NOTE: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN
 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



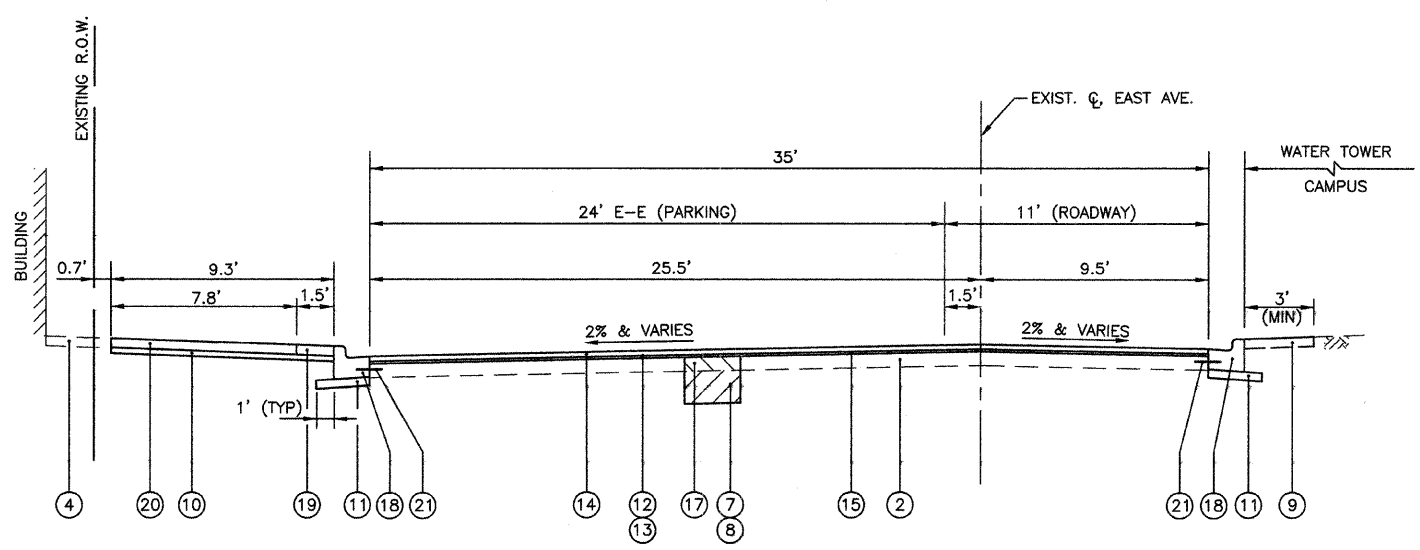
PROPOSED TYPICAL SECTION - PINE AVENUE
 STA. 1+66.40 TO STA. 5+27.80

PAVEMENT DESIGN CALCULATIONS			
DATE: NOVEMBER 18, 2008			
IMPROVEMENT TYPE: FLEXIBLE PAVEMENT CROSS SECTION (RESURFACING)			
LOCATION: PINE AVENUE			
CLASSIFICATION OF ROADWAY: CLASS III ROADWAY (ADT > 400 AND < OR = 2000)			
TRAFFIC FACTOR = $DF((0.073^{PV}) + (44.350^{SU}) + (154.943^{MU})) / 1000000$			
DESIGN LANE VOL. % OF ADT	100 % TRUCKS	50 % PASS. VEHICLES	
DESIGN PERIOD, YEARS (DP)	20 YEARS		
% OF PASSENGER VEHICLES	98.00 %		
% OF SINGLE UNIT TRUCKS	1.90 %		
% OF MULTI UNIT TRUCKS	0.10 %		
AVERAGE DAILY TRAFFIC	= 600	TRAFFIC FACTOR	0.012830
NO. OF PASSENGER VEHICLES (PV)	= 588		
NO. OF SINGLE UNIT TRUCKS (SU)	= 11	I.B.R.	2.5
NO. OF MULTI UNIT TRUCKS (MU)	= 1	STRUCTURAL NUMBER (S _n)	2.20
MATERIAL THICKNESS	STRUCTURAL MATERIAL	COEFFICIENT	Dt
2.50	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50	0.40	1.00
1.50	EXIST. HMA BINDER COURSE	0.22	0.33
16.00	EXIST. SUBBASE GRAN. MATL.	0.08	1.28
TOTAL Dt Provided =			2.61

PINE AVENUE

PAVEMENT DESIGN CALCULATIONS			
DATE: NOVEMBER 18, 2008			
IMPROVEMENT TYPE: COMPOSITE PAVEMENT CROSS SECTION (RESURFACING)			
LOCATION: EAST AVENUE			
CLASSIFICATION OF ROADWAY: CLASS III ROADWAY (ADT > 400 AND < OR = 2000)			
TRAFFIC FACTOR = $DF((0.073^{PV}) + (44.350^{SU}) + (154.943^{MU})) / 1000000$			
DESIGN LANE VOL. % OF ADT	100 % TRUCKS	50 % PASS. VEHICLES	
DESIGN PERIOD, YEARS (DP)	20 YEARS		
% OF PASSENGER VEHICLES	98.00 %		
% OF SINGLE UNIT TRUCKS	1.90 %		
% OF MULTI UNIT TRUCKS	0.10 %		
AVERAGE DAILY TRAFFIC	= 600	TRAFFIC FACTOR	0.012830
NO. OF PASSENGER VEHICLES (PV)	= 588		
NO. OF SINGLE UNIT TRUCKS (SU)	= 11	I.B.R.	2.5
NO. OF MULTI UNIT TRUCKS (MU)	= 1	COMPOSITE STRUCTURAL STRUCTURAL NUMBER (S _n)	2.00
MATERIAL THICKNESS	STRUCTURAL MATERIAL	COEFFICIENT	Dt
2.50	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50	0.40	1.00
8.00	EXIST. P.C.C. PAVEMENT	0.17	1.36
0.00	EXIST. SUBBASE GRAN. MATL.	0.08	0.00
TOTAL Dt Provided =			2.36

EAST AVENUE



PROPOSED TYPICAL SECTION - EAST AVENUE
 STA. 20+00 TO STA. 23+33.60

- LEGEND
- EXISTING HMA PAVEMENT, 1 1/2" & VARIES
 - EXISTING P.C.C. BASE COURSE, 8" & VARIES
 - EXISTING AGGREGATE BASE COURSE, 16" & VARIES
 - EXISTING P.C.C. SIDEWALK
 - EXISTING CONCRETE CURB, TYPE B
 - EXISTING RETAINING WALL
 - POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS DESIGNATED BY THE ENGINEER)
 - GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS DESIGNATED BY THE ENGINEER)
 - SODDING, SPECIAL (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER) (AT LOCATIONS DESIGNATED BY THE ENGINEER)
 - SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK)
 - SUB-BASE GRANULAR MATERIAL, TYPE B 4" (COST INCLUDED IN CONCRETE CURB AND GUTTER)
 - BITUMINOUS MATERIALS (PRIME COAT)
 - AGGREGATE (PRIME COAT)
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2 1/2"
 - LEVELING BINDER (MACHINE METHOD), N70, VARIABLE THICKNESS (MINIMUM 3/4" THICKNESS)
 - CLASS D PATCHES, 2" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
 - CLASS D PATCHES, 8" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
 - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (THICKNESS OF GUTTER FLAG SHALL BE 10' EXCEPT WHERE ADJACENT TO PCC PAVEMENT. WHEN ADJACENT TO PCC PAVEMENT, BOTTOM OF GUTTER SHALL BE AT THE SAME GRADE AS THE BOTTOM OF THE P.C.C. PAVEMENT)
 - PORTLAND CEMENT CONCRETE SIDEWALK 5" (AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
 - PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL (SWANEE MIX) (AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
 - 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS, 24" CTRS. DRILLED AND GROUTED IN PLACE (COST INCLUDED IN CONCRETE CURB AND GUTTER)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EAST AVENUE TO PINE AVENUE
 VILLAGE OF RIVERSIDE
 RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

PROPOSED TYPICAL SECTIONS

SCALE: 1"=20'
 DATE: 12/01/08

DRAWN BY: SMP
 CHECKED BY: BDH