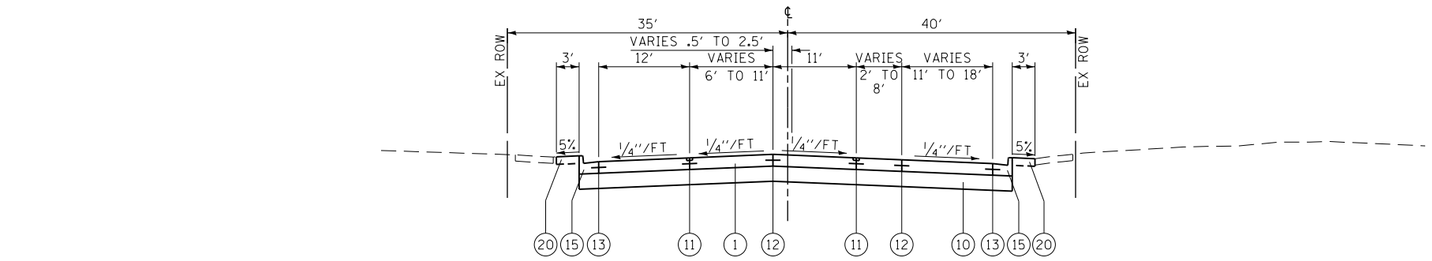
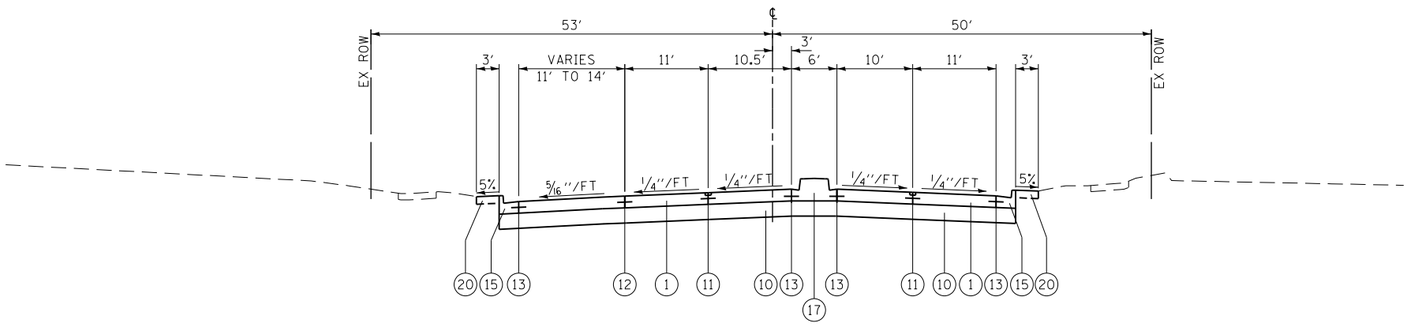


PROPOSED TYPICAL SECTION
HAPP ROAD
STATION 182+46.09 TO STATION 183+48.14



PROPOSED TYPICAL SECTION
CENTRAL AVENUE
STATION 190+22.06 TO STATION 191+10.00

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2020
PV = 37.908 SU = 1.633 MU = 279

ROAD/STREET CLASSIFICATION: CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 95.2% S = 4.1% M = 0.7%

TRAFFIC FACTOR: ACTUAL TF = 3.90 MINIMUM TF = 5.02

EDGE SUPPORT CONDITION: TIED CURB & GUTTER

SUBGRADE SUPPORT RATING: POOR

NOTES:

1. AGGREGATE SUBGRADE IMPROVEMENT HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE AND AT LOCATIONS OF BURIED TOPSOIL. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION IS TO BE PLACED BELOW THE AGGREGATE SUBGRADE IMPROVEMENT IN THE UNSUITABLE OR UNSTABLE SOILS LOCATIONS. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. ALL POTENTIALLY UNSUITABLE OR UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL (SSM). ANY AGGREGATE SUBGRADE IMPROVEMENT MATERIAL NOT NEEDED FOR REMOVAL AND REPLACEMENT OF UNSUITABLE OR UNSTABLE MATERIAL AT THE TIME OF CONSTRUCTION SHALL BE DELETED FROM THE CONTRACT.

2. 4″ TRANSVERSE PIPE UNDERDRAINS SHALL BE INSTALLED EVERY 300′ AND AT ALL LOW POINTS IN THE PROFILE. LONGITUDINAL PIPE UNDERDRAINS SHALL ALSO BE INSTALLED ALONG THE INTERSTATE 94 AUXILIARY LANES. THE UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS AND CHECK SHEET 19 OF THE IDOT RECURRING SPECIAL PROVISIONS.

AGGREGATE SUBGRADE IMPROVEMENT

STATION RANGE	LOCATION	LENGTH	WIDTH	DEPTH	VOLUME
WILLOW ROAD					
687+50 TO 690+50	ROADWAY	300 FT	VARIES	3 FT	1776 CY
ILLINOIS ROUTE 43					
517+00 TO 519+00	ROADWAY	200 FT	VARIES	2.5 FT	1814 CY
				TOTAL	3590 CY

AGGREGATE SUBGRADE IMPROVEMENT AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

STATION RANGE	LOCATION	LENGTH	WIDTH	DEPTH	AGG SUBGRADE IMP VOLUME	GEOTECH FAB AREA
WILLOW ROAD						
643+00 TO 645+00	ROADWAY	200 FT	VARIES	3 FT	1956 CY	1956 SY
658+50 TO 660+50	ROADWAY	200 FT	VARIES	1 FT	376 CY	1127 SY
ILLINOIS ROUTE 43						
513+00 TO 515+00	ROADWAY	200 FT	VARIES	3 FT	2382 CY	2382 SY
				TOTALS	4714 CY	5465 SY

EXISTING

(A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE
(B) PORTLAND CEMENT CONCRETE PAVMENT (8 1/4″ AND VARIES)
(C) PORTLAND CEMENT CONCRETE PAVEMENT (9″ AND VARIES)
(D) PORTLAND CEMENT CONCRETE PAVEMENT (10″ AND VARIES)
(E) PORTLAND CEMENT CONCRETE PAVEMENT (12 1/4″ AND VARIES)
(F) STABILIZED BASE COURSE (8″ AND VARIES)
(G) SUB-BASE GRANULAR MATERIAL (4″ AND VARIES)
(H) AGGREGATE SUBGRADE (12″)
(I) GRASS MEDIAN
(J) CONCRETE MEDIAN, TY SB-6.06
(K) CONCRETE MEDIAN, TY SB-6.12
(L) COMBINATION CONCRETE CURB & GUTTER, TY B-6.12
(M) COMBINATION CONCRETE CURB & GUTTER, TY B-6.24
(N) BITUMINOUS SHOULDER
(O) AGGREGATE WEDGE SHOULDER, TY B
(P) PORTLAND CEMENT CONCRETE SIDEWALK (5″)
(Q) MULTI-USE PATH
(R) MEDIAN BARRIER

PROPOSED

(1) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4″ (JOINTED)
(2) PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4″ (JOINTED)
(3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 2″
(4) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 2″
(5) HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 7 1/2″″
(6) HOT-MIX ASPHALT BINDER COURSE, IL-19, N90 12 1/4″″
(7) HOT-MIX ASPHALT SHOULDERS, 7 1/2″
(8) HOT-MIX ASPHALT SHOULDERS, 12 1/4″
(9) NOT USED
(10) AGGREGATE SUBGRADE IMPROVEMENT 12″
(11) LONGITUDINAL SAWED JOINT NO. 6 X 2′-6″ LONG DEFORMED TIE BARS (EPOXY COATED) AT 2′-6″ C-C (STANDARD 420001-07) (INCLUDED IN THE COST OF PCC PAVEMENT)
(12) LONGITUDINAL CONSTRUCTION JOINT NO. 6 X 2′ LONG DEFORMED TIE BARS GROUTED-IN-PLACE (EXPOXY COATED) AT 2′ C-C (STANDARD 420001-07 (INCLUDED IN THE COST OF PCC PAVEMENT)
(13) NO. 6 X 2′ LONG DEFORMED TIE BARS GROUTED-IN-PLACE (EXPOXY COATED) AT 2′ C-C (STANDARD 420001-07) (INCLUDED IN THE COST OF COMBINATION CURB & GUTTER OR CONCRETE MEDIAN)
(14) COMBINATION CONCRETE CURB & GUTTER, TY B-6.12
(15) COMBINATION CONCRETE CURB & GUTTER, TY B-6.24
(16) COMBINATION CONCRETE CURB & GUTTER, TY B-9.12 (MODIFIED)
(17) CONCRETE MEDIAN, TY SB-6.06
(18) CONCRETE MEDIAN, TY SB-9.12
(19) PORTLAND CEMENT CONCRETE SIDEWALK 5″
(20) TOPSOIL FURNISH AND PLACE 6″ AND SODDING OR SEEDING AS NOTED ON PLANS
(21) TOPSOIL FURNISH AND PLACE, 30″ AND SODDING OR LANDSCAPING AS NOTED ON PLANS
(22) PIPE UNDERDRAINS, FABRIC LINED TRENCH 4″
(23) BRICK SIDEWALK
(24) CONCRETE MEDIAN SURFACE, 4 INCH
(25) STAMPED COLORED CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL)
(26) AGGREGATE BASE COURSE, TYPE B

FILE NAME = G:\CH11\0158\Road\Sheets\D160T35-SHT-TYPICAL.dgn	USER NAME = BAWistort	DESIGNED - JLV	REVISED -
		DRAWN - KAL	REVISED -
	PLOT SCALE = 20.000 ′ / in.	CHECKED - RCB	REVISED -
	PLOT DATE = 11/28/2012	DATE - 10/31/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 33 OF 919 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	(1920.01,1518,2022&1922.4B)R	COOK	919	33
		CONTRACT NO. 60T35		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT