STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL TRAFFIC: YEAR: 2024

PV= 5001 SU= 375 MU= 1,000

ROAD/STREET CLASSIFICATION: CLASS I

P= 78.43% S= 5.88% M= 15.69%

TRAFFIC FACTOR: ACTUAL TF= 4.8

MINIMUM TF= 7.1

SUBGRADE SUPPORT RATING:
SSR= POOR

PROPOSED LEGEND

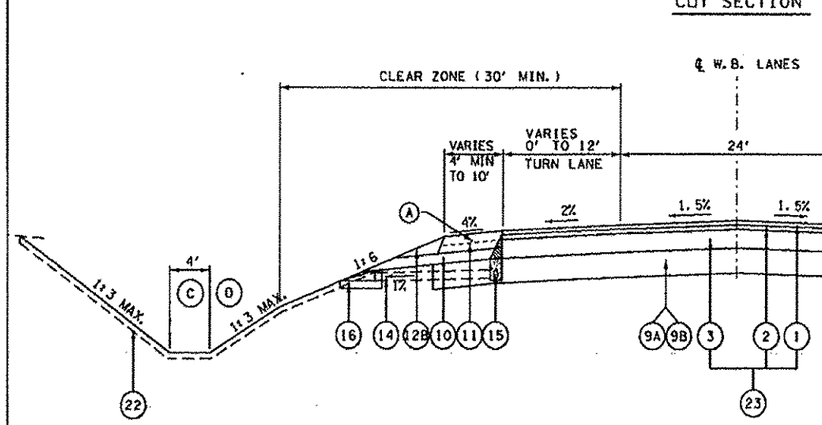
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N70 2.25"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8"
- ✱ ✱ (9A) SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ✱ ✱ (9B) LIME MODIFIED SOIL 12"
- (10) EMBANKMENT
- (11) HOT-MIX ASPHALT SHOULDERS 8"
- (12) AGGREGATE SHOULDERS, TYPE B, 8"
- (12B) AGGREGATE WEDGE SHOULDER, TYPE B
- (14) PIPE UNDERDRAIN 4" (SPECIAL) (STD 601201-D4) AT 1% SLOPE
- (15) 4" PERFORATED CORRUGATED POLYETHYLENE TUBING @ 0.40% MIN. SLOPE (SEE PROP. UNDERDRAIN PROFILE SHEETS) (PAID FOR AS "PIPE UNDERDRAINS 4")
- (16) CONCRETE HEADWALL FOR PIPE DRAIN (PER STD 601101)
- (22) 4" TOPSOIL PLACEMENT
- ✱ (23) HMA PAVEMENT (FULL DEPTH), 12.25"

LEGEND NOTES:

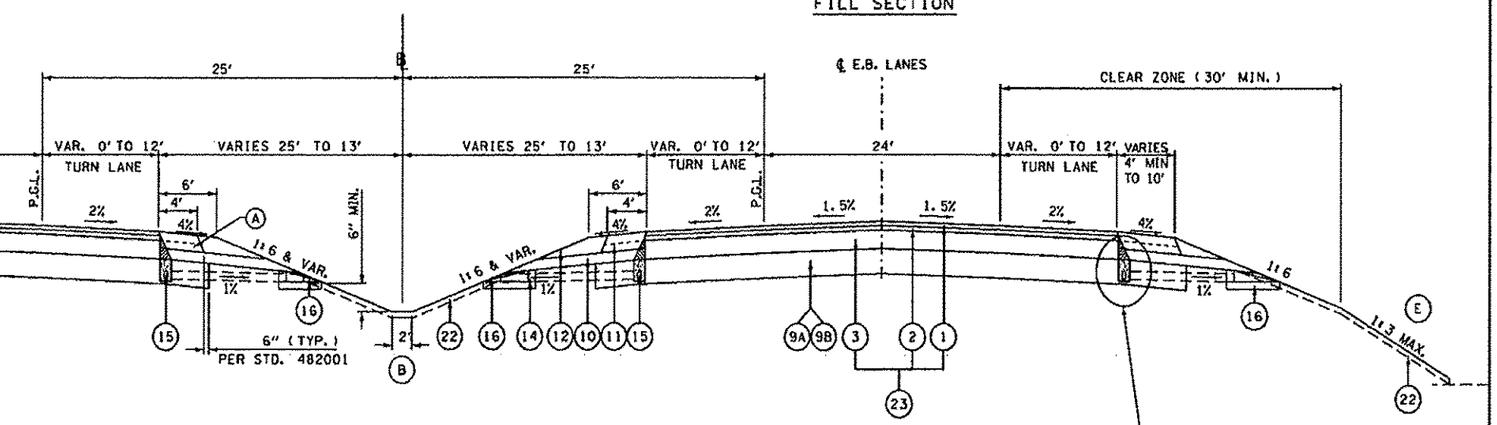
✱ ITEMS 1, 2, & 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR HMA PAVEMENT (FULL-DEPTH), 12.25"

1 ✱ ✱ SUB-BASE GRANULAR MATERAIL IS REQUIRED AT SELECTED LOCATIONS. SEE SCHEDULE. ~~CONTRACTOR OPTION FOR SUBGRADE IMPROVEMENT METHOD AT ALL OTHER LOCATIONS.~~

CUT SECTION



FILL SECTION



US ROUTE 34 TANGENT SECTION WITH TURN LANES

STA 523+30.60 TO STA 527+00.00 (EB ONLY)
STA 527+00.00 TO STA 533+33.05
STA 552+34.80 TO STA 561+18.12
STA 688+63.93 TO STA 698+53.45
STA 718+50.83 TO STA 727+95.41
STA 743+75.27 TO STA 754+25.00
STA 771+48.93 TO STA 779+31.42
STA 802+69.13 TO STA 805+99.12
STA 805+99.12 TO STA 808+42.68 (WB ONLY)

NOTES:

(A) CONSTRUCT HMA AND AGGREGATE SHOULDER UP TO TOP OF HMA BINDER COURSE 8" PRIOR TO PLACING 2.25" BINDER AND 2" SURFACE COURSES.

(B) STANDARD MEDIAN DITCH DEPTH IS 3.24 FT. BELOW PROFILE GRADE LINE.

(C) STANDARD OUTER DITCH DEPTH IS 5.00 FT. BELOW OUTSIDE EDGE OF PAVEMENT.

(D) CONTINUE 1:6 FORESLOPE WHEN DITCH DEPTH IS 7.00 FT. OR LESS BELOW OUTSIDE EDGE OF PAVEMENT. USE 1:3 FORESLOPE OUTSIDE CLEAR ZONE (30') WHEN DITCH DEPTH IS GREATER THAN 7.00 FT.

(E) SEE TYPICAL BENCH DETAIL IN FORESLOPE (WHERE APPLICABLE)

1 REVISED 1-8-13

FILE NAME = D468409-SHT-03-TYP-US34-TANG-TURN.dgn	USER NAME = zeahj	DESIGNED - OBS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS US ROUTE 34 – TURN LANE TANGENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PSBA	REVISED -			313	7-2; 6-1	HENDERSON	976	83
	PLOT SCALE = 100.0000 ' / in.	CHECKED - CSB	REVISED -					CONTRACT NO. 68409		
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -		SCALE: N.A. / SHEET NO. 3 OF 18 SHEETS / STA. / TO STA.		ILLINOIS FED. AID PROJECT			