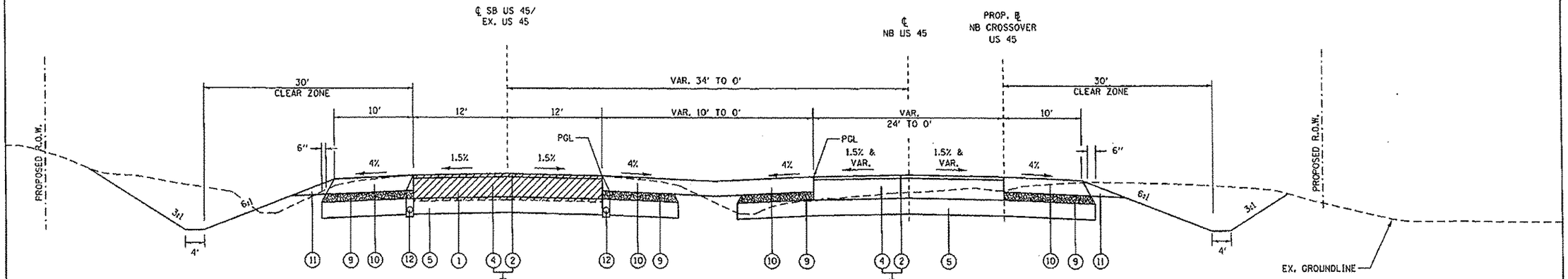

PROPOSED RURAL TRANSITION TYPICAL SECTION

TO BE USED: STA. 705+49.18 TO 710+60.77 (℄ US 45) = STA. 2705+55.13 TO 2710+64.21 (NB CROSSOVER)

NOTE: ALT A & ALT B OPTION ENDS AT STATION 710+60.77

PAVEMENT STRUCTURE DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2024

PV = 9470 SU = 595 MU = 235

ROAD/STREET CLASSIFICATION: CLASS 1

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 32% S = 45% M = 45%

TRAFFIC FACTOR: ACTUAL TF = 1.74
MINIMAL TF = 3.56

PG GRADE: BINDER = 64-22 SURFACE = 64-22

NOMINAL THICKNESS FOR EACH LIFT OF BINDER SHALL BE AS FOLLOWS:

9¼" BINDER

1st LIFT 5"
2nd LIFT 4¼"

1

LEGEND

1. EXISTING HOT-MIX ASPHALT RESURFACED PCC PAVEMENT, 14"
2. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90, 2"
4. HOT-MIX ASPHALT BINDER COURSE, N90, IL-19.0, 9¼"

1

5. PROCESSING LIME MODIFIED SOILS (12" MIN.) (SEE GEOTECHNICAL REPORT FOR DEPTH OF PROPOSED LIME MODIFICATION)
9. SUB-BASE GRANULAR MATERIAL TYPE "C" (TO BE OMITTED IF ALT B IS USED)
10. ALT A: HOT-MIX ASPHALT SHOULDERS, 8" OR ALT B: PORTLAND CEMENT CONCRETE SHOULDERS, 9"
11. AGGREGATE SHOULDERS, TYPE B
12. PIPE UNDERDRAINS, 4" (HWY STD. 601001)
13. ALT A: HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11.25" OR ALT B: PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED) & STAB. SUBBASE 4"

1

REMOVAL

1 REVISED 7-22-14

FILE NAME = P:\Projects\2011 Projects\11297 - 1031 US45 PA2\CV\CADD Sheets\0978077-sht-typical.dgn	USER NAME = bumary	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS U.S. 45	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			332	(29,30)R-1	SALINE	745	31
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 78077		
	PLOT DATE = 7/21/2014	DATE -	REVISED -		SCALE: N.T.S. / SHEET NO. 8 OF SHEETS / STA. / TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		