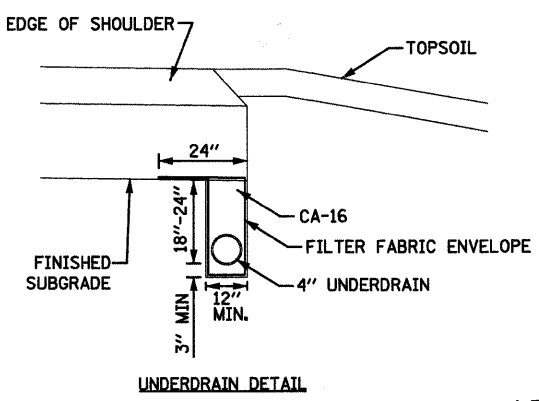


- STA. 308+48.49 TO STA. 312+38.00
- STA. 307+15.03 TO STA. 312+38.00
- STA. 307+40.00 TO STA. 309+00.00 AND STA. 311+74.00 TO STA. 312+38.00
- STA. 310+65.00 TO STA. 311+22.00

**PROPOSED TYPICAL SECTION**  
(SUPERELEVATED AND TRANSITION SECTION)  
STA. 306+50.00 TO STA. 310+74.00  
AND STA. 311+46.00 TO STA. 312+38.00

EXISTING PAVEMENT TO BE REMOVED FULL DEPTH FROM STA. 306+00.00 TO STA. 310+74.00 AND FROM STA. 311+46.00 TO STA. 312+38.00

**UNDERDRAINS**  
FROM STA. 307+00.00 TO STA. 314+96.72



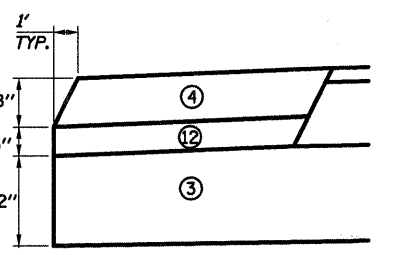
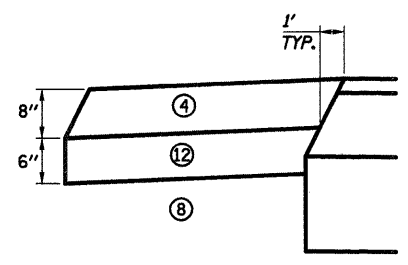
- UNDERDRAIN NOTES**
1. PIPE UNDERDRAINS TO BE PLACED AS INDICATED ON THE PLANS.
  2. CAPS, PLUGS, WYES, AND TEES ARE CONSIDERED INCLUDED IN THE COST OF THE UNDERDRAINS.
  3. ALL END RUNS SHALL HAVE A CAP OR PLUG.
  4. UNDERDRAINS SHALL BE CONNECTED AS SHOWN ON THE PLANS WHICH COST IS INCLUDED IN THE COST OF THE UNDERDRAINS.
  5. UNDERDRAIN MATERIAL SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING.
  6. EXCAVATION, FABRIC AND POROUS GRANULAR BACKFILL AS SPECIFIED SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.

**LEGEND - EXISTING**

- (A) AGGREGATE SHOULDER - TO BE REMOVED (INCLUDED IN EARTH EXCAVATION - 20200100)
- (B) HMA SURFACE COURSE - TO BE REMOVED (44000100)
- (C) HMA BINDER COURSE - TO BE REMOVED (44000100)
- (D) AGGREGATE BASE COURSE - TO BE REMOVED (INCLUDED IN EARTH EXCAVATION - 20200100)

**LEGEND - PROPOSED**

- (1) FULL DEPTH PAVEMENT (40701901)  
HMA SURFACE COURSE, MIX "D", N70 (2")  
HMA BINDER COURSE, IL-19.0, N70 (9") (IN 3 LIFTS)
- (2) BITUMINOUS MATERIALS (PRIME COAT) (40600200)
- (3) AGGREGATE SUBGRADE (12") (Z0001050)
- (4) HMA SHOULDERS (8" TOTAL - 2" HMA SURFACE/6" HMA BINDER) (48203029)
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)
- (6) DITCH
- (7) TOPSOIL FURNISH AND PLACE & SEEDING, CLASS 2A OR 4 (SEE LANDSCAPE PLAN)
- (8) FURNISHED EXCAVATION, VARIABLE DEPTH (20400800)
- (9) AGGREGATE SUBGRADE (12") (Z0001050)
- (10) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (11) POROUS GRANULAR BACKFILL FOR UNDERDRAIN (INCLUDE IN PIPE UNDERDRAIN) (60107600)
- (12) SUBBASE GRANULAR MATERIAL, TYPE C (31102000)



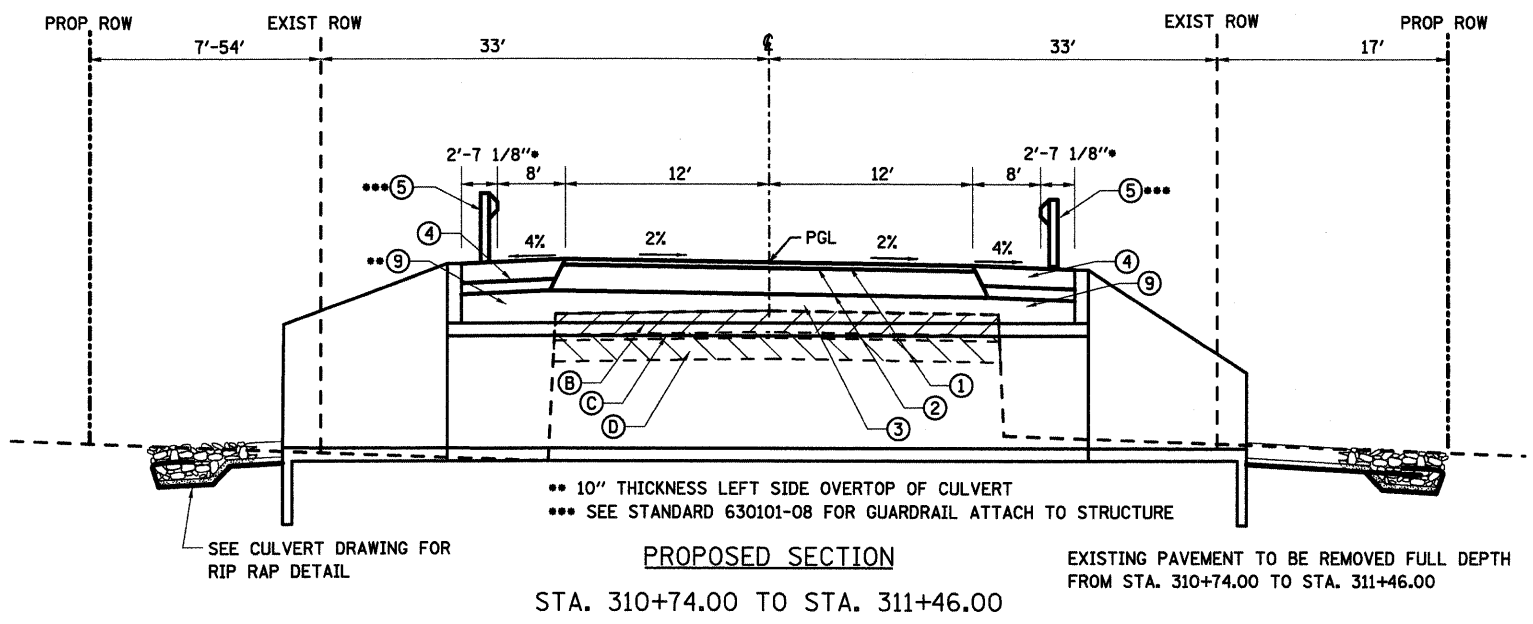
**HMA SHOULDER DETAIL**

**STRUCTURAL PAVEMENT DESIGN**

STRUCTURAL DESIGN TRAFFIC: Year 2030  
 PV = 9200 SU = 400 MU = 400  
 ROAD/STREET CLASSIFICATION: Class 2  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P = 92 S = 4 M = 4  
 TRAFFIC FACTOR: Actual TF = 1.621 AC Type = PG 64-22  
 Minimum TF = NA  
 PG GRADE: Binder = PG 64-22 /58-22 Surface = PG 64-22  
 SUBGRADE SUPPORT RATING:  
 SSR = POOR

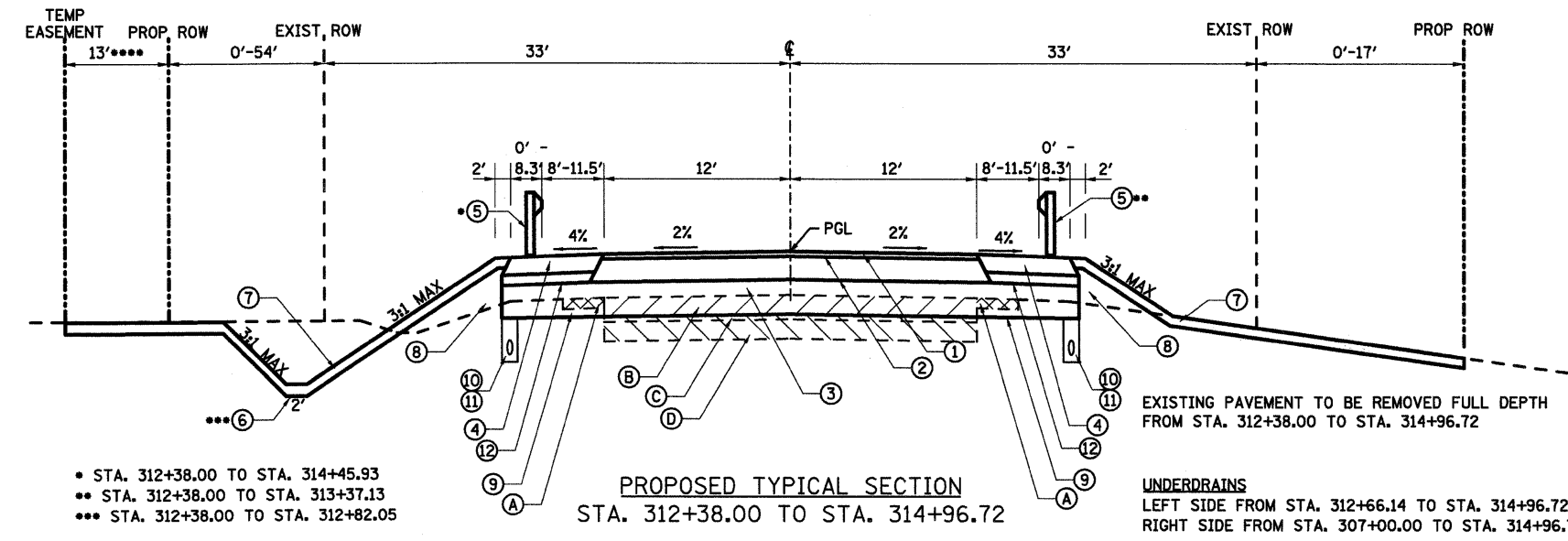
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
ITEM	AC TYPE	VOIDS
KESLINGER ROAD - FULL DEPTH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	PG 64-22	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22 *	4% @ 70 GYR.
SHOULDERS		
HOT-MIX ASPHALT SHOULDER, 8"	PG 64-22 *	2% @ 30 GYR.
DRIVEWAYS P.E. AND F.E. (F.E. 2" SURFACE COURSE OVER 8" AGG. BASE)		
HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19 mm)	PG 64-22 *	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2" (IL 9.5 mm)	PG 64-22	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.  
 • WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



**PROPOSED SECTION**  
STA. 310+74.00 TO STA. 311+46.00

EXISTING PAVEMENT TO BE REMOVED FULL DEPTH FROM STA. 310+74.00 TO STA. 311+46.00



**PROPOSED TYPICAL SECTION**  
STA. 312+38.00 TO STA. 314+96.72

EXISTING PAVEMENT TO BE REMOVED FULL DEPTH FROM STA. 312+38.00 TO STA. 314+96.72

**UNDERDRAINS**  
LEFT SIDE FROM STA. 312+66.14 TO STA. 314+96.72  
RIGHT SIDE FROM STA. 307+00.00 TO STA. 314+96.72

- STA. 312+38.00 TO STA. 314+45.93
- STA. 312+38.00 TO STA. 313+37.13
- STA. 312+38.00 TO STA. 312+82.05

FILE NAME = F:\CDBEL\WEST\Projects\2269\123\35\Kessling\PHD\Design\Drawn\07\PROP\PROP\SECT.dgn



USER NAME = #USER#	DESIGNED - SBP	REVISED -
PLOT SCALE = NONE	DRAWN - TC	REVISED -
PLOT DATE = 8/28/2009	CHECKED - SBP	REVISED -
	DATE - January 2008	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TYPICAL SECTIONS</b>	
SCALE: NONE	SHEET NO. 7 OF 37 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0110	01-00267-00-BR	KANE	37	7
CONTRACT NO. 83994				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		