

**STRUCTURAL DESIGN INFORMATION (RIGID PAVEMENT)**

STRUCTURAL DESIGN TRAFFIC: Year **2019**

PV = **12,650** SU = **580** MU = **1295**

ROAD/STREET CLASSIFICATION: Class **I**

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

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

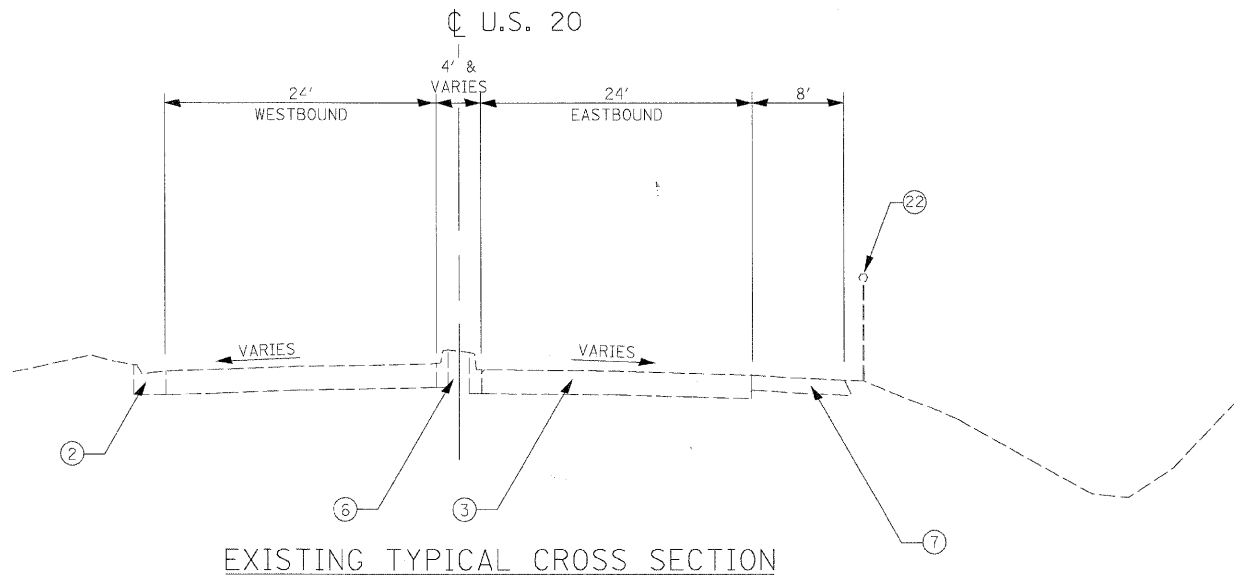
TRAFFIC FACTOR: TF = **8.88**

MINIMUM SOIL SUPPORT:

IBR = **1.1**

STRUCTURAL NUMBER: Dt = **4.35** Actual

Surface = **2.5"**  
 PCC Base Cse = **11"**  
 Subbase = **24"**

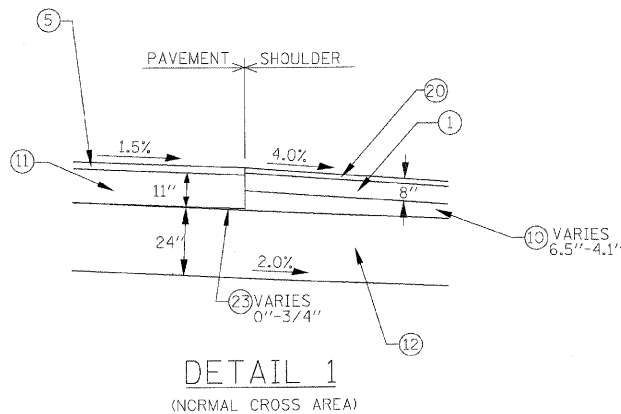
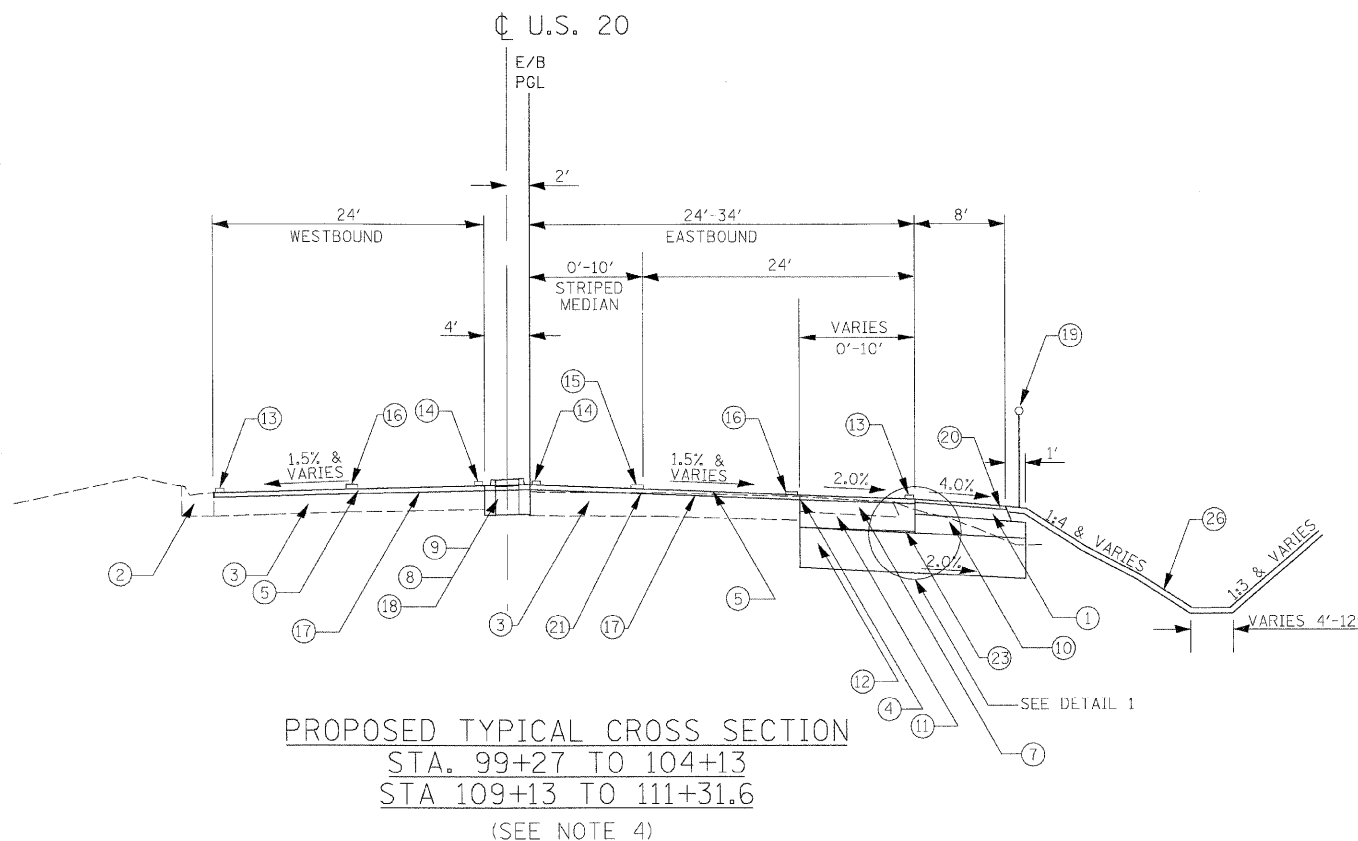


**LEGEND**

- ① HOT-MIX ASPHALT SHOULDERS, 6.5"
- ② EXISTING PCC CURB & GUTTER, TYPE B-9.24 (TO BE REMOVED & REPLACED AT LOCATIONS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.)
- ③ EXISTING PCC PAVEMENT (VARIES 10"-11")
- ④ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2" LEVELING BINDER ( MACHINE METHOD), N70, 1"
- ⑥ EXISTING CONCRETE MEDIAN TYPE SB-9.06 TO BE REMOVED (SEE NOTE 1 & 2)
- ⑦ EXISTING AGGREGATE SHOULDER (SEE MOT STAGE 1 TYPICAL SECTION)
- ⑧ CLASS B PATCHES, TYPE IV, 10" (SEE NOTE 2)
- ⑨ TEMPORARY PAVEMENT, 6" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, AGGREGATE BASE COURSE, TYPE B, 12" (SEE NOTE 1)
- ⑩ CA6-CA10 (COST INCLUDED IN HOT-MIX ASPHALT SHOULDERS, 6.5")
- ⑪ HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 11"
- ⑫ SUBBASE GRANULAR MATERIAL, TYPE A, 24"
- ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ⑭ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑮ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE)
- ⑯ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE), 10' DASH - 30' SKIP
- ⑰ BITUMINOUS MATERIALS (PRIME COAT)
- ⑱ CONCRETE MEDIAN, TYPE SB-9.06
- ⑲ DELINEATOR
- ⑳ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1-1/2"
- ㉑ LEVELING BINDER (MACHINE METHOD), N70 (VARIOUS DEPTH) (SEE NOTE 3)
- ㉒ EXISTING DELINEATOR (SEE NOTE 5)
- ㉓ CA6-CA10 (COST INCLUDED IN HOT-MIX ASPHALT BINDER COURSE, IL-19, N70)
- ㉔ GUARDRAIL STA 105+44 TO STA 108+72
- ㉕ GUARDRAIL STA 104+47 TO STA 109+02
- ㉖ TOPSOIL FURNISH & PLACE, 4" & SEEDING (EXCEPT AT RIPRAP LOCATIONS)

**NOTES:**

- 1. THE REMOVAL OF THE EXISTING RAISED MEDIAN AND THE PLACEMENT OF TEMPORARY PAVEMENT WILL BE REQUIRED AT LOCATIONS SHOWN ON THE STAGING PLANS.
- 2. THE REMOVAL OF THE TEMPORARY PAVEMENT AND THE PLACEMENT OF 10" CLASS B PATCHES WILL BE REQUIRED AT LOCATIONS SHOWN ON STAGING PLANS.
- 3. CONTRACTOR SHALL CONSTRUCT LEVELING BINDER (MACHINE METHOD), N70, AS NECESSARY TO ATTAIN THE PROPOSED PAVEMENT CROSS SLOPES AS REQUIRED AND AS DIRECTED BY THE ENGINEER.
- 4. SUPERELEVATION TANGENT RUNOUT FROM STA. 109+26.05 TO STA. 110+06.05 AND SUPERELEVATION RUNOFF FROM STA. 110+06.05 TO STA. 111+73.36.
- 5. CONTRACTOR SHALL REMOVE ALL DELINEATORS WITHIN THE PROJECT LIMITS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.



FILE NAME =	USER NAME = #USER#	DESIGNED: KAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED TYPICAL SECTIONS U.S. 20</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GA\ENG\06-6749-13_TASK7\G:\v\Sh\NDI184C68.S	T005.tps\cal.dgn	DRAWN BY: CKL/TMF	REVISED -			301	43T&M	JODAVIESS	80	15
	PLOT SCALE = #SCALE#	CHECKED BY: KAC	REVISED -			CONTRACT NO. 64C68				
	PLOT DATE = 12/1/2009	DATE: 11/13/2009	REVISED -			SCALE: N.T.S.	SHEET NO. 15 OF 80 SHEETS	STA. 99+27 TO STA. 114+33	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT