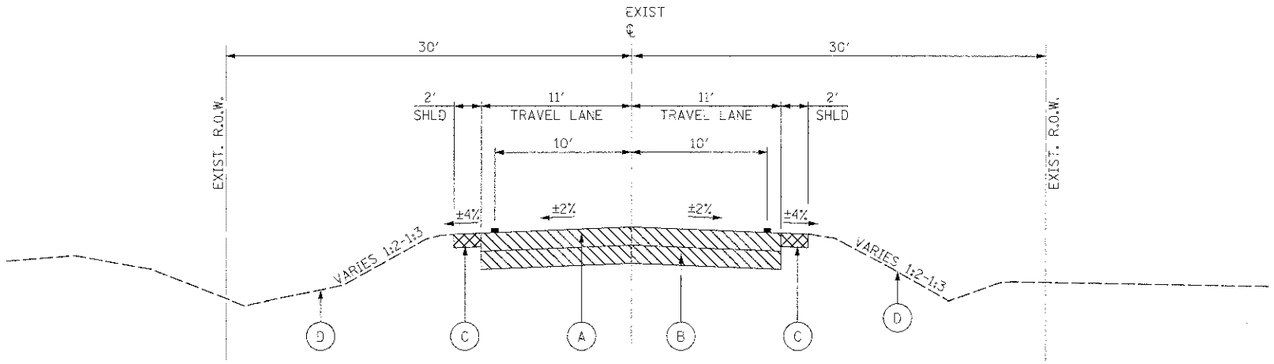
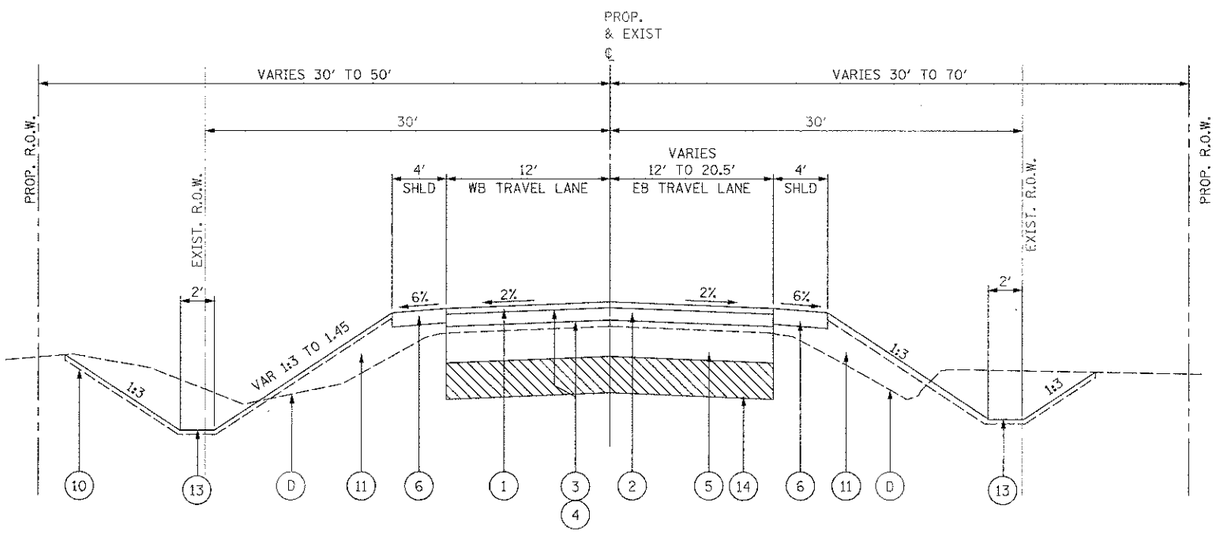


EXISTING TYPICAL SECTION

STA. 103+00 TO STA. 109+59
STA 110+28 TO STA 113+35



PROPOSED TYPICAL SECTION

LEFT

STA. 103+00.00 TO STA. 106+00.00
STA. 112+74.50 TO STA. 113+35.00

RIGHT

STA. 103+00.00 TO STA. 103+67.67

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D BIT THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
HILL ROAD	3477	54	54	II	0.274	POOR	76°	214	PG 64-28	650	6.0 IN	2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 AGGREGATE SUBGRADE IMPROVEMENT 24"

EXISTING LEGEND

- (A) HOT MIX ASPHALT SURFACE AND BINDER COURSE, ±10"
- (B) AGGREGATE SUBBASE
- (C) AGGREGATE SHOULDER
- (D) EXISTING GROUND
- REMOVAL ITEMS
- SHOULDER REMOVAL (INCLUDED IN COST OF EARTH EXCAVATION)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
- (3) BITUMINOUS MATERIALS (PRIME COAT)
- (4) AGGREGATE (PRIME COAT)
- (5) AGGREGATE SUBGRADE IMPROVEMENT
- (6) AGGREGATE SHOULDERS, TYPE B, 6"
- (7) HOT-MIX ASPHALT SHOULDERS, 6"
- (8) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (9) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (10) TOPSOIL FURNISH AND PLACE, 6"
- (11) EMBANKMENT
- (12) PERMANENT STEEL SHEET PILING
- (13) GRADING AND SHAPING DITCHES
- (14) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

NOTES:

1. (1) + (2) = HOT-MIX ASPHALT (FULL DEPTH), 6"
2. BRIDGE OMISSION: STA. 109+03.70 TO STA. 110+74.30 RT/LT
3. PAVEMENT STRUCTURE SHALL BE PAID FOR AS BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) FROM STA. 108+03.70 TO STA. 109+03.70 AND FROM STA. 110+74.30 TO STA. 111+74.30
4. (5) + (14) = AGGREGATE SUBGRADE IMPROVEMENT 24"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"	
HOT-MIX ASPHALT SURFACE COURSE, "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm) N50; PE-4", CE-6" (IN 2 LIFTS)	4% @ 50 GYR
SHOULDER RECONSTRUCTION	
HOT-MIX ASPHALT SHOULDER, 6" (HMA BINDER IL-19mm) (IN 2 LIFTS)	4% @ 50 GYR
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HOT-MIX ASPHALT MIXES SHALL BE "SBS/SBR PG76-22" AND FOR NON-POLYMERIZED HOT-MIX ASPALT THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROFISIONS." FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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STRAND ASSOCIATES®
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = dornjaw	DESIGNED - VLM	REVISED -	
	DRAWN - DJW	REVISED -	
PLOT SCALE = 20.0000 ' / IN.	CHECKED - AJS	REVISED -	
PLOT DATE = 8/23/2012	DATE - 4-23-12	REVISED -	

MCHENRY COUNTY DIVISION OF TRANSPORTATION
HILL ROAD BRIDGE OVER
NORTH BRANCH NIPPERSINK CREEK

TYPICAL SECTIONS

SCALE: AS SHOWN | SHEET NO. OF SHEETS | STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	08-00356-00-BR	MCHENRY	77	8
		CONTRACT NO. 63666		

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