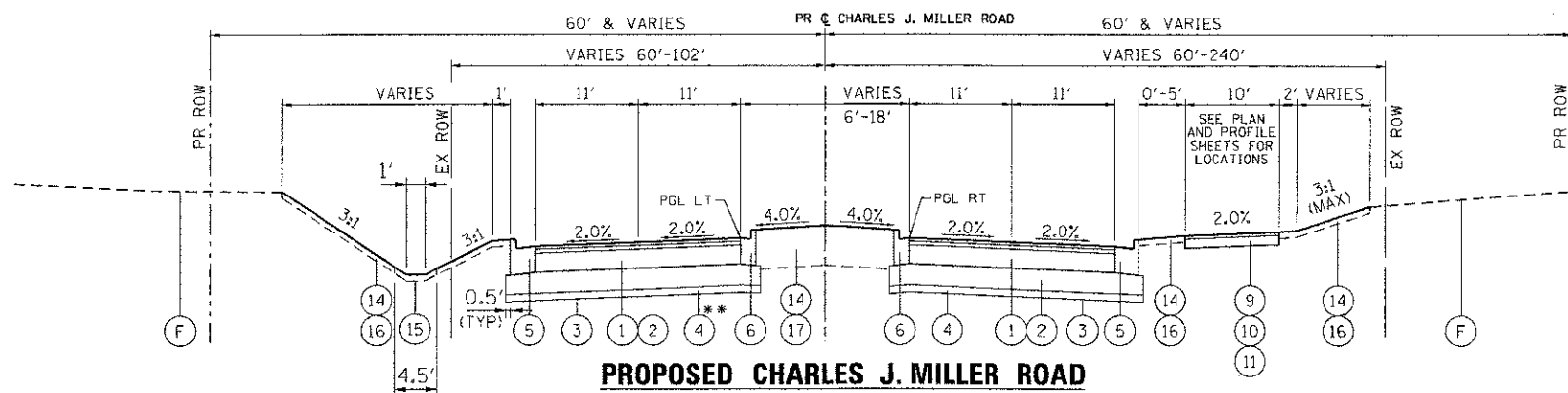


PROPOSED CHARLES J. MILLER ROAD

STA 565+87.00 TO STA 571+00.00

- EXISTING TYPICAL SECTION LEGEND**
- (A) HOT-MIX ASPHALT PAVEMENT; DEPTH VARIES (6" TO 10")
 - (B) HOT-MIX ASPHALT SHOULDERS
 - (C) SUBBASE GRANULAR MATERIAL
 - (D) AGGREGATE SHOULDERS
 - (E) COMBINATION CONCRETE CURB AND GUTTER
 - (F) EXISTING GRADE
 - (G) HOT-MIX ASPHALT PAVEMENT, BIKE PATH
 - (H) REINFORCED CONCRETE SLAB (SEE STRUCTURAL PLAN)
 - (I) STEEL GIRDER (SEE STRUCTURAL PLAN)

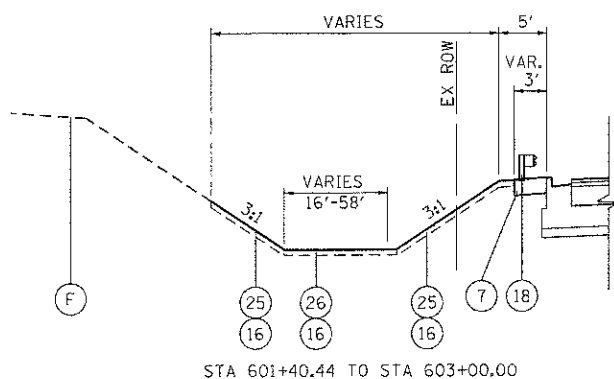
- PROPOSED TYPICAL SECTION LEGEND**
- (1) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
 - (2) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (3) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION)
 - (4) POROUS GRANULAR EMBANKMENT, SUBGRADE (AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION)
 - (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - (7) HOT-MIX ASPHALT SHOULDERS, 6"
 - (8) CONCRETE MEDIAN, TYPE SB-6.12
 - (9) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
 - (10) HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 4"
 - (11) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
 - (12) HOT-MIX ASPHALT SHOULDERS, 8"
 - (13) AGGREGATE SHOULDERS, TYPE B, 6"
 - (14) SEEDING, CLASS 2A
 - (15) SODDING, SALT TOLERANT
 - (16) TOPSOIL FURNISH AND PLACE, 4"
 - (17) TOPSOIL, FURNISH AND PLACE, 24"
 - (18) STEEL PLATE BEAM GUARDRAIL, TYPE A
 - (19) REINFORCED CONCRETE SLAB, 7 1/4" (SEE STRUCTURAL PLAN)
 - (20) WEB STEEL PLATE GIRDER, 50" (SEE STRUCTURAL PLAN)
 - (21) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2"
 - (21A) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N90; 2 1/2"
 - (22) LEVELING BINDER (MACHINE METHOD), N70, VARIES 0"-1"
 - (23) HOT-MIX ASPHALT BASE COURSE, 6"
 - (23A) HOT-MIX ASPHALT BASE COURSE WIDENING 6"
 - (24) AGGREGATE SUBGRADE IMPROVEMENT 4"
 - (25) SEEDING, CLASS 4A
 - (26) SEEDING, CLASS 4B
 - (27) CONCRETE MEDIAN SURFACE, 4 INCH



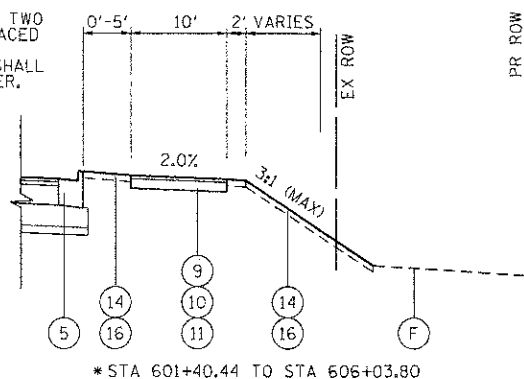
PROPOSED CHARLES J. MILLER ROAD

STA 571+00.00 TO STA 575+00.00
STA 601+40.44 TO STA 606+03.78 *

** AS INDICATED BY SOILS REPORT AND DIRECTED BY THE ENGINEER REMEDIAL WORK FOR WESTBOUND LANES (WIDENING ON NORTH SIDE) BETWEEN STATIONS 588+00 TO 590+00 SHALL INCLUDE TWO FEET OF TOPSOIL TO BE STRIPPED AND REPLACED WITH TWO FEET OF PGES CONTAINING BX1200 GEGRID OR APPROVED EQUAL. THE GEGRID SHALL BE PLACED IN THE MIDDLE OF THE PGES LAYER.



STA 601+40.44 TO STA 603+00.00



* STA 601+40.44 TO STA 606+03.80

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	PERCENT AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT - MILLER AND RIVER ROAD	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5mm); 2"	4% @ 90 GYR.
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90; 2 1/2"	4% @ 90 GYR.
HMA BINDER COURSE, IL-19.0, N90; 9 1/2" (IN 3 LIFTS)	4% @ 90 GYR.
WWTP ACCESS DRIVE	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19 mm); 6" (IN 2 LIFTS)	4% @ 50 GYR.
PAVEMENT WIDENING	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5mm); 2"	4% @ 90 GYR.
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90; 2 1/2"	4% @ 90 GYR.
HMA BASE COURSE WIDENING (HMA BINDER IL-19 mm), N90; 6" (IN 2 LIFTS)	4% @ 90 GYR.
RESURFACING	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5mm); 2"	4% @ 90 GYR.
LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19 mm); PE -4", CE - 6" (IN 2 LIFTS)	4% @ 50 GYR.
SHOULDERS	
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5mm); 2"	4% @ 90 GYR.
HMA SHOULDER (HMA BINDER IL-19 mm); 6" (IN 2 TO 3 LIFTS)	4% @ 50 GYR.
SHARED-USE PATH	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 2"	4% @ 50 GYR.
HMA BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER, IL-19mm)	4% @ 70 GYR.
TEMPORARY PAVEMENT	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 2"	4% @ 50 GYR.
TEMP PAVEMENT (HMA BINDER IL-19 mm); 8" (IN 3 LIFTS)	4% @ 50 GYR.

1. THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 3. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
 NOTE: THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

STRUCTURAL PAVEMENT DESIGN			
STRUCTURAL DESIGN TRAFFIC:	YEAR:	2022	
PV = 23,232	SU = 1,848	MU = 1,320	
ROAD/STREET CLASSIFICATION:	URBAN MINOR ART.	CLASS	I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P = 88%	S = 7%	M = 5%
TRAFFIC FACTOR:	ACTUAL TF = 7.96	AC TYPE = 20	
	MINIMUM TF = 3.56		
PG GRADE:	BINDER = 64-28	SURFACE = 64-28	
SUBGRADE SUPPORT RATING:	SSR = POOR	(STA. 514+25.00 TO 594+61.34)	
	SSR = POOR	(STA. 601+16.01 TO 606+03.80)	

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: jstana
 CLIENT: MCHENRY COUNTY
 DATE PLOTTED: 7/23/2012 11:59 AM
 FILE NAME: 090071-tyr-02.dgn
 PLOT DRIVER: pdfcut
 PLOT TABLE: standard-trans.tbl



USER NAME = jstana	DESIGNED - JPA	REVISED -
FILE NAME = 090071-tyr-02.dgn	DRAWN - SVJ	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JLP	REVISED -
PLOT DATE = 7/23/2012	DATE - 7/23/12	REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**TYPICAL SECTIONS
CHARLES J. MILLER ROAD ROADWAY IMPROVEMENTS**

SCALE: N.T.S. SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-00-PW	MCHENRY	252	16
CONTRACT NO. 63633				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				