

PROPOSED MOOSEHEART ROAD TYPICAL SECTION

STA. 54+20.00 TO STA. 66+01.24

* AGGREGATE SUBGRADE IMPROVEMENT
STA. 58+00 TO STA. 64+50

+ PIPE UNDERDRAINS
STA. 58+15.03 TO STA. 58+48.41 LT
STA. 58+14.97 TO STA. 58+53.44 RT
STA. 58+15.03 TO STA. 58+48.41 LT
STA. 58+14.97 TO STA. 58+53.44 RT
STA. 61+00.00 TO STA. 61+33.83 LT
STA. 61+00.00 TO STA. 61+35.13 RT
STA. 64+69.07 TO STA. 64+98.52 LT
STA. 64+72.75 TO STA. 65+05.05 RT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
LEVELING BINDER (MACHINE METHOD) N90, 3/4" - 2 1/4"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" - 4"	4% @ 90 GYR.
PAVEMENT WIDENING - ILLINOIS ROUTE 31	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm), 6 1/4" (IN 2 LIFTS)	4% @ 90 GYR.
PAVEMENT WIDENING - MOOSEHEART ROAD	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm), 2"	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm), 8" (IN 2 LIFTS)	4% @ 90 GYR.
HOT-MIX ASPHALT SHOULDERS, 8"	
HMA SURFACE COURSE, MIX "D", N 50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); 6"	4% @ 50 GYR.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N 50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); PE -6", CE -8" (IN 2 LIFTS)	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER, IL-19mm)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

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.

FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

NOTES:

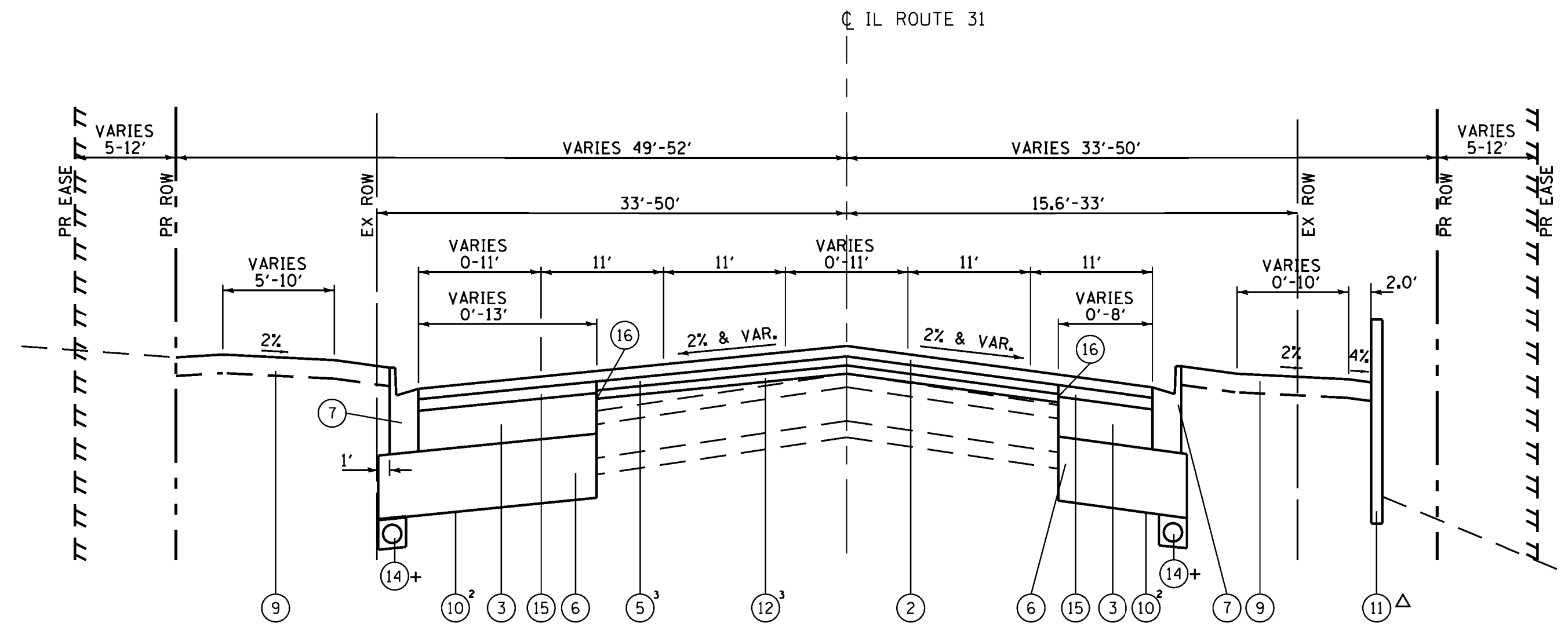
- THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING ALONG MOOSEHEART ROAD AND PATCH FIRST BEFORE MILLING ALONG ILLINOIS ROUTE 31. SEE DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL BE USED THROUGHOUT THE WIDENING SECTION, EITHER BELOW THE AGGREGATE SUBGRADE IMPROVEMENT OR UNDER THE PGES WHEN REQUIRED.
- FOR PROFILE CORRECTION, REFER TO PLAN AND PROFILE SHEETS
MOOSEHEART RD: STA. 56+00.00 TO STA. 60+50.00 AND STA. 62+50.00 TO STA. 66+01.24
ILLINOIS ROUTE 31: STA. 28+50.00 TO STA 30+50.00

MOOSEHEART ROAD PAVEMENT TRANSITIONS				
STA.	STA.	MILL	LEV BIND	POLY BC
54+20.00	56+89.00	0.5"-2"	0"-2 1/4"	0"
56+89.00	58+25.00	0.5"	0"-2 1/4"	2 1/4"-4"
58+25.00	62+75.00	0.5"-2"	0"-2 1/4"	0"
62+75.00	63+75.00	0.5"	0"	2 1/4"-4"
63+75.00	65+00.00	0.5"-2"	0"-2 1/4"	0"
65+00.00	66+01.24	0.5"	0"-2 1/4"	2 1/4"-4"

ILLINOIS ROUTE 31 PAVEMENT TRANSITIONS				
STA.	STA.	MILL	LEV BIND	POLY BC
23+46.39	29+48.00	0.5"-2"	0"-2 1/4"	0"
29+48.00	30+16.00	0.5"	0"-2 1/4"	2 1/4"-4"
30+16.00	32+00.00	0.5"-2"	0"-2 1/4"	0"
32+00.00	32+50.00	0.5"-2"	0"	2 1/4"-4"
32+50.00	34+81.54	0.5"-2"	0"-2 1/4"	0"

EXISTING CONDITIONS

- (A) HMA RESURFACING, VARIES 3"-5"
- (B) HMA PAVEMENT, VARIES 7"-9"
- (C) PCC PAVEMENT, VARIES 6"-8.5"
- (D) AGGREGATE SUBBASE, VARIES 2"-3"
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) AGGREGATE SHOULDERS
- (H) EXISTING GROUND



SUPERELEVATION TABLE

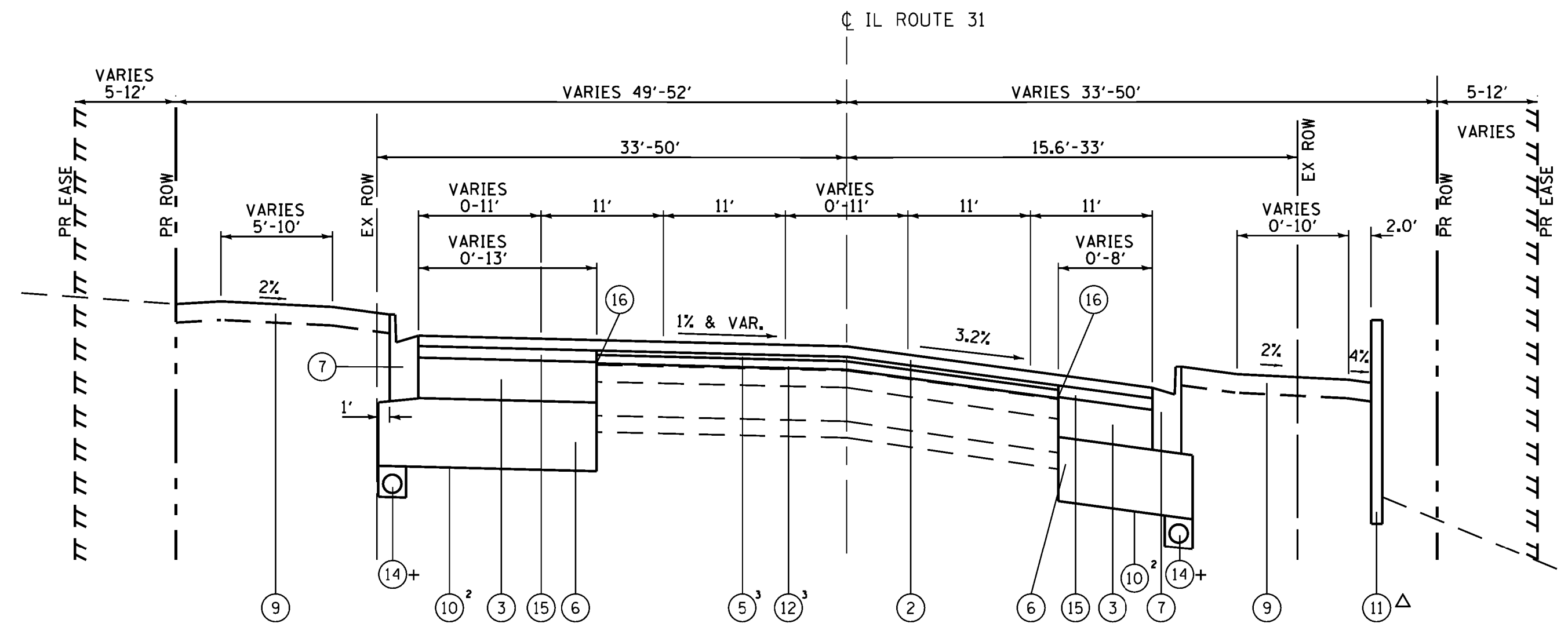
IL ROUTE 31			
LEFT		RIGHT	
STA.	SLOPE	STA.	STA.
23+46.39	-2.0%	23+46.39	-2.0%
27+50.00	-2.0%	25+10.00	-2.0%
29+00.00	1.0%	27+50.00	-3.2%
31+50.00	1.0%	33+30.00	-3.2%
33+00.00	-2.0%	34+15.00	-2.0%
34+81.54	-2.0%	34+81.54	-2.0%

PROPOSED ILLINOIS ROUTE 31 TYPICAL SECTION

STA. 23+46.39 TO STA. 27+50.00
STA. 33+30.00 TO STA. 34+81.54

△ RETAINING WALL FROM STA. 33+30.00 TO STA. 35+00.00

+ PIPE UNDERDRAINS
STA. 23+53.64 TO STA. 23+85.11 LT
STA. 23+54.97 TO STA. 23+86.45 RT



PROPOSED ILLINOIS ROUTE 31 TYPICAL SECTION

STA. 27+50.00 TO STA. 33+30.00

△ RETAINING WALL FROM STA. 30+50.00 TO STA. 33+30.00

+ PIPE UNDERDRAINS
STA. 27+86.33 TO STA. 28+17.83 LT
STA. 27+88.55 TO STA. 28+19.72 RT
STA. 31+76.26 TO STA. 32+05.41 LT
STA. 31+43.93 TO STA. 31+74.56 RT

PROPOSED IMPROVEMENTS

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, VARIES 0.5"-2"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2"
- (3) HOT-MIX ASPHALT BASE COURSE, 6 1/4"
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (5) LEVELING BINDER (MACHINE METHOD), N90, VARIES 3/4" - 2 1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (7) COMBINATION CONCRETE CURB & GUTTER TYPE B.6-24
- (8) HOT-MIX ASPHALT SHOULDERS, 8"
- (9) TOPSOIL, FURNISH AND PLACE, 4" WITH SODDING, SALT TOLERANT
- (10) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (11) RETAINING WALL
- (12) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" - 4"
- (13) AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- (14) PIPE UNDERDRAINS, 6"
- (15) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (16) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (17) SAWCUT

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm
DATE PLOTTED: 7/27/2012 3:38:54 PM
FILE NAME: 86100196.14-tyo-02.dgn
PLOT DRIVER: pdfcatt
PEN TABLE: standard-trans.tbl



USER NAME : spernal	DESIGNED - C. HARTKE	REVISED - C. HARTKE	8/3/2012
PLOT SCALE : N/A	DRAWN - S. PERNAL	REVISED -	
PLOT DATE : 7/27/2012	CHECKED - T. HAMILTON	REVISED -	
	DATE - 7/20/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 31 AT MOOSEHEART ROAD

SCALE: N/A SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A. RTE. 3887	SECTION AR-N-2	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 17
CONTRACT NO. 60P65			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	