

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(28,29)RS, PP	WARREN	7	1
		ILLINOIS	CONTRACT NO. 68D21	

INDEX OF SHEETS: 07-29-2016 LETTING ITEM 045 STATE OF ILLINOIS

1. COVER SHEET
2. GENERAL & JOB SPECIFIC NOTES
3. SUMMARY OF QUANTITIES
4. SCHEDULE OF QUANTITIES
5. TYPICAL SECTIONS
6. LINE DIAGRAM
7. CADD STANDARD 440001-D4

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

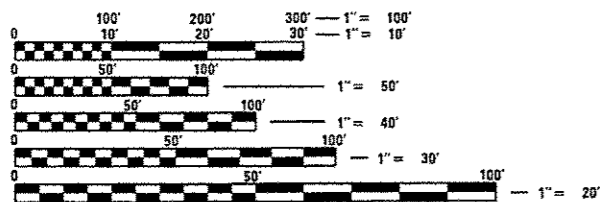
FAP ROUTE 310 (US 67)  
SECTION (28,29)RS, PP  
CONTRACT MAINTENANCE  
WARREN COUNTY

**HIGHWAY STANDARDS**

- 701306-03
- 701336-06
- 701901-05
- 781001-04

**DESIGN DESIGNATION**

OTHER PRINCIPAL ARTERIAL  
2015 ADT = 2350-5100  
AVERAGE MU = 275  
AVERAGE SU = 230



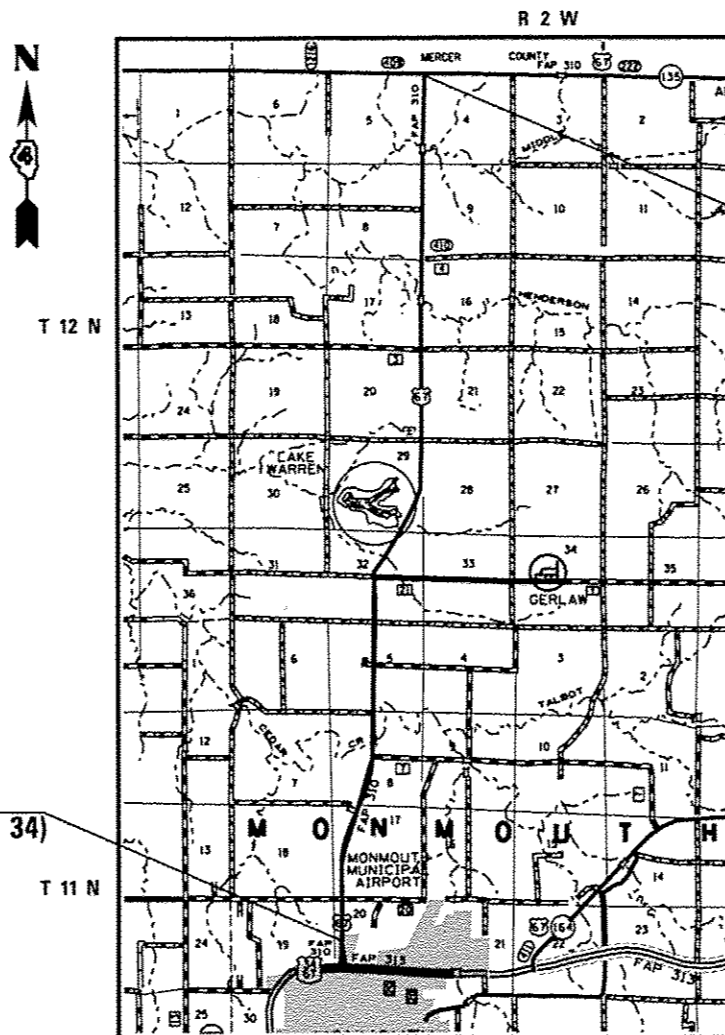
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: RICH DOTSON (309)671-3455  
PROJECT MANAGER: RON NOLTE (309)671-3470

CONTRACT NO. 68D21

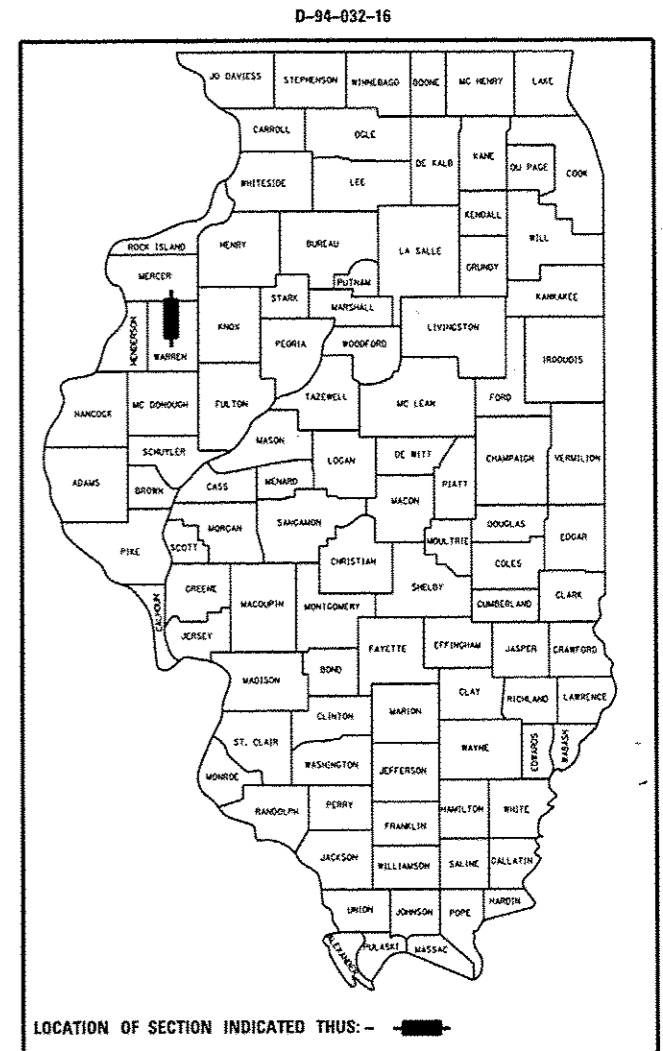
C-94-064-16



PROJECT BEGINS  
JUST SOUTH OF IL 135  
(EXCLUDING "WYE" INTERSECTION)

PROJECT ENDS  
(0.5 MILE N OF US 34)

GROSS LENGTH = 50,160 FT. = 9.5 MILE  
NET LENGTH = 50,160 FT. = 9.5 MILE



**DESCRIPTION**  
PARTIAL DEPTH HMA PATCHING AND INTERMITTENT HMA OVERLAY FROM 0.5 MILE NORTH OF US 34 TO THE IL 135 JUNCTION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED May 19 2016  
Tom A. Harbo  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 1 2016  
Muhammad M. Addis, PE  
ENGINEER OF DESIGN AND ENVIRONMENT

July 1 2016  
Omair Osman, PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**PAVING SURFACE COURSE**

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

**CROSSING EXISTING STRUCTURES WITH EQUIPMENT**

The following structures, SN 094-0002 over Middle Henderson Creek, SN 094-0048 over Henderson Creek, and SN 094-0051 over Cedar Creek shall be verified by the resident prior to beginning work that it may be crossed with:

Options:

- a. milling machine

**PAVEMENT STATION NUMBERS & PLACEMENT**

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20 mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval - 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers - 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- 2, 3, & 5 Lane Pavements - right edge of pavement in direction of increasing stations

- Multi-Lane Divided Roadways - outside edge of pavement in both directions

- Ramps - along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format - English (Metric) pavement stations shall use this format \*XXX (XX + X00)\*, where X represents the pavement station

This work will not be paid for separately, but will be included in the cost of the associated pavement and/or overlay pay items.

**MIX DESIGN REQUIREMENTS**

The following mixture requirements are applicable for this project:

Mixture Use(s):	Surface Course (1.75")	Partial Depth Patch (4") (TO BE PLACED IN 2, 2" LIFTS)		
AC/PG:	PG 64-22	PG 64-22		
Design Air Voids:	4.0% @ N=50	4.0% @ N=50		
Mixture Composition: (Mixture Gradation)	IL 9.5	IL 9.5		
Friction Aggregate:	Mix D (Dolomite Only)	Mix D (Dolomite Only)		
Quality Management Program:	QCOA	QCOA		

Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.  
 2) For design purposes, mixture weight for all mixes is determined to be 132.0 lb/s.y./in., unless otherwise noted.  
 3) Sublot sizes for PFP and OCP mixes will be 1000 tons, unless otherwise agreed to by the Engineer and the paving contractor.

**ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

**NO PASSING ZONE VERIFICATION**

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

**COMMITMENTS**

There are no Commitments

**JOB SPECIFIC NOTES**

THE CONTRACTOR SHALL NOT BE REQUIRED TO SQUARE THE VERTICAL FACE ON EACH END OF THE HMA REMOVAL AREAS PRIOR TO PLACING HMA 1.75" OR 4"

FINAL PAVEMENT MARKINGS SHALL BE PLACED BY IDOT OPERATIONS CREWS. THE CONTRACTOR SHALL NOTIFY D.J. HOLMES AT (309)370-7514 AS SOON AS AN ESTIMATED COMPLETION DATE IS DETERMINED. SHORT TERM PAVEMENT MARKINGS SHALL BE REMOVED BY IDOT.

FILE NAME : 0458021-ht-typical.dgn	USER NAME : aubreyga	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL /JOB SPECIFIC NOTES & MIX REQUIREMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			310	(28,29)RS, PP	WARREN	7	2
Default	PLOT DATE = 5/14/2016	CHECKED -	REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 68D21		



LOCATION	DESCRIPTION ( UNITS LOCATED BETWEEN THE FOLLOWING	LANE WIDTH	INTERMITTENT OVERLAY									PARTIAL DEPTH PATCHING, 4"		AGG. SHLDS., TY B *
			NUMBER OF OVERLAY AREAS		LENGTH OF INDIVIDUAL OVERLAY AND PATCH AREAS (FOOT)		TOTAL LANE (12") LENGTH OF 1.75" OVERLAY AREAS (PER LOCATION)	AREA	HMA SURFACE REMOVAL 1.75"	POLY. BIT. MATERIALS (TACK COAT)	HMA SURFACE COURSE, MIX "D", N50-1.75"	HMA REMOVAL (4.0") PAID AS:	HMA PLACEMENT (4.0") PAID AS:	
			FOOT	SOUTHBOUND	NORTHBOUND	SOUTHBOUND	NORTHBOUND	FOOT	SQ. YD.	SQ. YD.	POUND	TON	PARTIAL DEPTH PATCHING (SPECIAL)	
	US 67/IL 135 JUNCTION													
UNIT 1		12	4	4	12	12	96	128.0	128.0	57.6	12.5			
		12	1	2	100	200	500	666.7	666.7	300.0	65.3			6.3
		12	1	0	200	0	200	266.7	266.7	120.0	26.1			2.5
	MIDDLE HENDERSON CREEK													
UNIT 2		12	8	5	12	12	156	208.0	208.0	93.6	20.4			
		12	1	1	200	250	450	600.0	600.0	270.0	58.8			5.7
		12	1	0	150	0	150	200.0	200.0	90.0	19.6			1.9
	HENDERSON CREEK													
UNIT 3		12	15	10	12	12	300	400.0	400.0	180.0	39.2			
		12	1	2	200	200	600	800.0	800.0	360.0	78.4			7.6
	260TH AVE.													
UNIT 4		12	0	6	0	12	72	96.0	96.0	43.2	9.4			
		12	1	1	300	400	700	933.3	933.3	420.0	91.5			8.8
		12	0	1	0	500	500	666.7	666.7	300.0	65.3			6.3
		12	3	1	200	300	900	1200.0	1200.0	540.0	117.6			11.3
		12	0	1	0	200	200					266.7	59.7	2.5
	245TH AVE.													
UNIT 5		12	5	7	12	12	144	192.0	192.0	86.4	18.8			
		12	1	1	50	300	350	466.7	466.7	210.0	45.7			4.4
	230TH AVE.													
UNIT 6		12	4	1	12	12	60	80.0	80.0	36.0	7.8			
		12	1	1	500	500	1000	1333.3	1333.3	600.0	130.7			12.6
	CEDAR CREEK													
UNIT 7		12	10	5	12	12	180	240.0	240.0	108.0	23.5			
		12	1	2	50	50	150	200.0	200.0	90.0	19.6			1.9
	220TH AVE.													
UNIT 8	210TH AVE.	12	5	7	12	12	144	192.0	192.0	86.4	18.8			
	(DJ AUTOMOTIVE)													
<b>PROJECT TOTAL</b>							<b>6652</b>	<b>8869</b>	<b>8869</b>	<b>3991</b>	<b>869</b>	<b>267</b>	<b>60</b>	<b>72</b>

\*QUANTITY ADDED FOR CORRECTION OF LOW SHOULDERS, IF NEEDED, AFTER COMPLETION OF OVERLAY.

TRAFFIC CONTROL AND PROTECTION		
LOCATION	STANDARD 701306	STANDARD 701336
	L. SUM	L. SUM
JOBSITE	1	1
<b>PROJECT TOTAL</b>	<b>1</b>	<b>1</b>

MOBILIZATION	
LOCATION	L. SUM
JOBSITE	1
<b>PROJECT TOTAL</b>	<b>1</b>

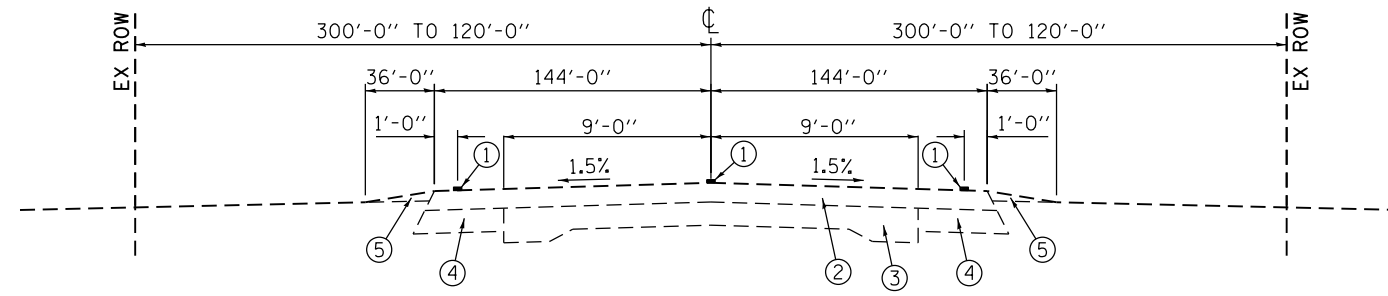
LOCATION	DESCRIPTION (UNITS LOCATED BETWEEN THE FOLLOWING)	LENGTH	SHORT TERM PAVEMENT MARKING	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
			YELLOW SKIP-DASH	MARKER REMOVAL	MARKER
		FOOT	FOOT	EACH	EACH
	US 67/IL 135 JUNCTION				
UNIT 1		796	88	10	10
	MIDDLE HENDERSON CREEK				
UNIT 2		756	83.6	9	9
	HENDERSON CREEK				
UNIT 3		900	98	11	11
	260TH AVE.				
UNIT 4		2372	245	30	30
	245TH AVE.				
UNIT 5		494	57	6	6
	230TH AVE.				
UNIT 6		1060	114	13	13
	CEDAR CREEK				
UNIT 7		330	41	4	4
	220TH AVE.				
UNIT 8		144	22	2	2
	210TH AVE.				
	(DJ AUTOMOTIVE)				
<b>PROJECT TOTAL</b>			<b>749</b>	<b>86</b>	<b>86</b>

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		DRAWN -	REVISED -
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	PLOT DATE = 5/19/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

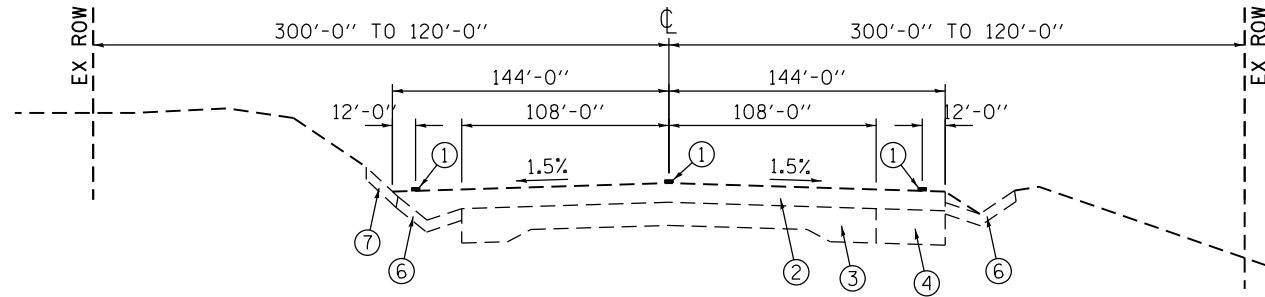
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(28,29)RS, PP	WARREN	7	4
			CONTRACT NO. 68D21	
ILLINOIS FED. AID PROJECT				



**EXISTING FAP ROUTE 310 (US 67)**

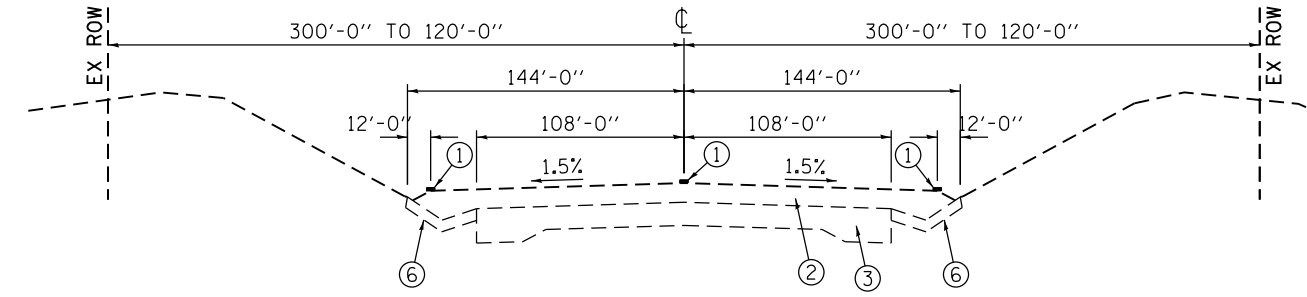
STA 802+00 TO STA 808+00  
 STA 808+00 TO STA 809+00 RT  
 STA 809+00 TO STA 813+00  
 STA 833+00 TO STA 893+50  
 STA 901+50 TO STA 913+40  
 STA 922+11 TO STA 934+50  
 STA 947+50 TO STA 1032+50  
 STA 1039+50 TO STA 1046+50  
 STA 1051+50 TO STA 1058+50  
 STA 1062+40 TO STA 1063+38  
 STA 1065+50 TO STA 1072+00  
 STA 1075+00 TO STA 1076+42 RT  
 STA 1082+50 TO STA 1170+13  
 STA 1170+13 TO STA 1170+48 LT  
 STA 1174+02 TO STA 1174+50 LT  
 STA 1192+61 TO STA 7+00.00

LEGEND	
①	EXISTING PAVEMENT MARKINGS (TYP.)
②	EXISTING HOT-MIX ASPHALT RESURFACING
③	EXISTING CONCRETE PAVEMENT (9",6",9")
④	EXISTING WIDENING
⑤	EXISTING AGGREGATE SHOULDER
⑥	EXISTING GUTTER
⑦	EXISTING SLOPE WALL



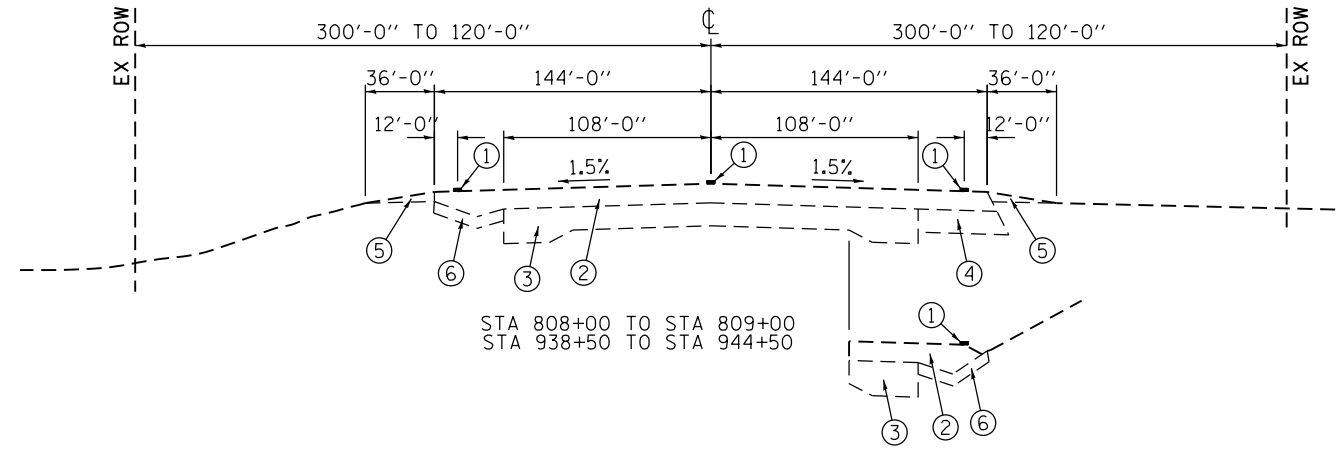
**EXISTING FAP ROUTE 310 (US 67)**

STA 1170+13 TO STA 1170+48 RT  
 STA 1170+48 TO STA 1174+02  
 STA 1174+02 TO STA 1174+50 RT



**EXISTING FAP ROUTE 310 (US 67)**

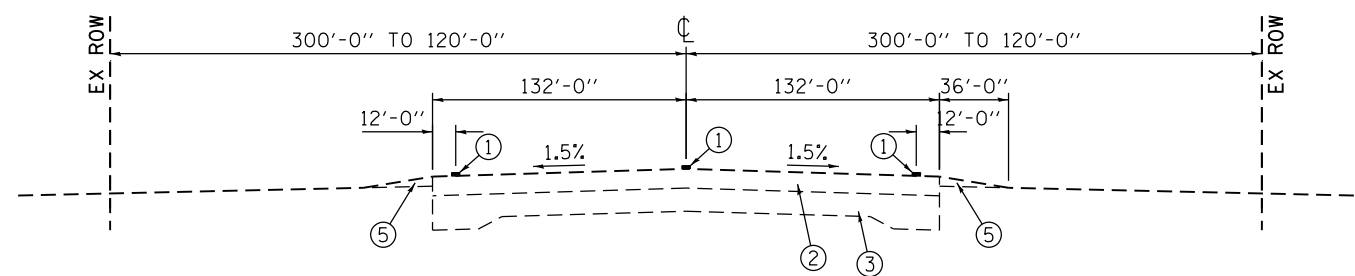
STA 893+50 TO STA 901+50  
 STA 934+50 TO STA 938+50  
 STA 944+50 TO STA 947+50 RT  
 STA 1032+50 TO STA 1039+50  
 STA 1046+50 TO STA 1051+50  
 STA 1058+50 TO STA 1062+40  
 STA 1063+38 TO STA 1065+50  
 STA 1072+00 TO STA 1075+00  
 STA 1075+00 TO STA 1076+42 LT  
 STA 1076+42 TO STA 1082+50  
 STA 1184+00 TO STA 1192+61



**EXISTING FAP ROUTE 310 (US 67)**

STA 808+00 TO STA 809+00  
 STA 938+50 TO STA 944+50

STA 944+50 TO STA 947+50



**EXISTING FAP ROUTE 310 (US 67)**

STA 813+00 TO STA 828+41  
 STA 828+41 TO STA 828+61 (APP)  
 STA 829+87 TO STA 830+07 (APP)  
 STA 830+07 TO STA 833+00

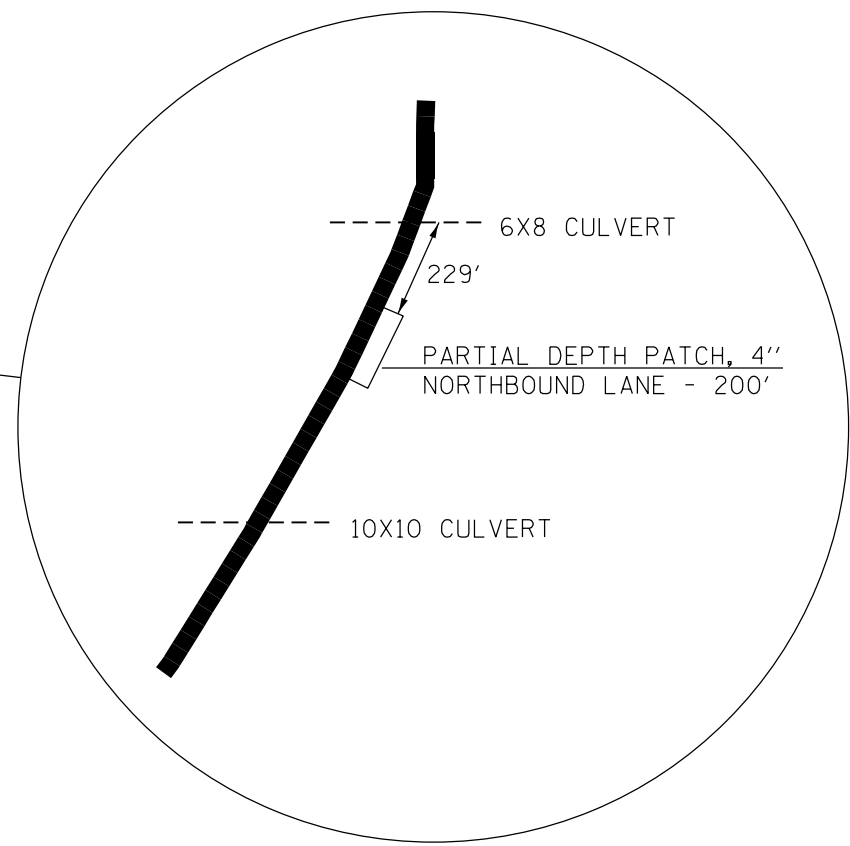
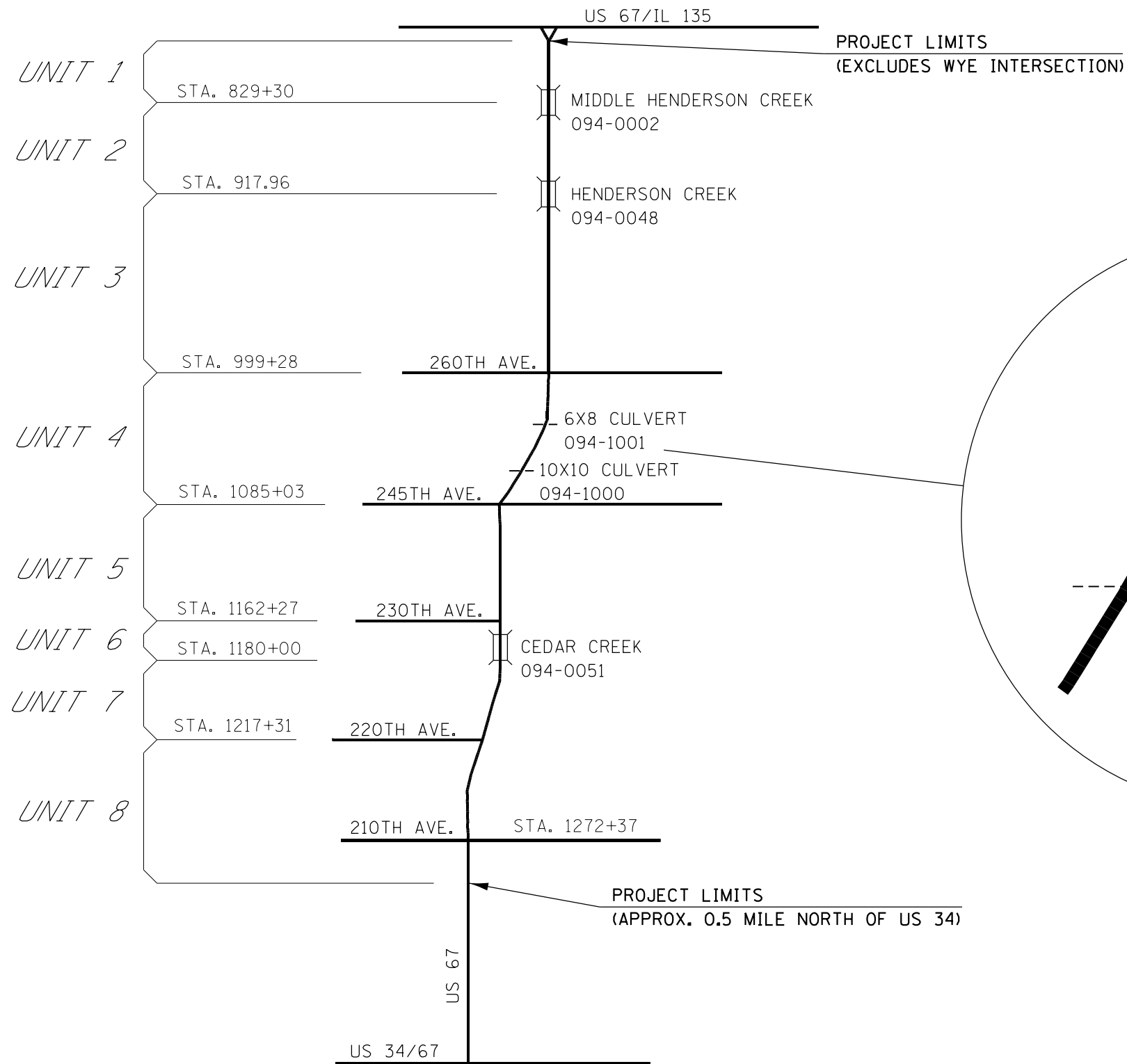
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	PLOT DATE = 5/19/2016	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(28, 29)RS, PP	WARREN	7	5
CONTRACT NO. 68D21				
ILLINOIS FED. AID PROJECT				



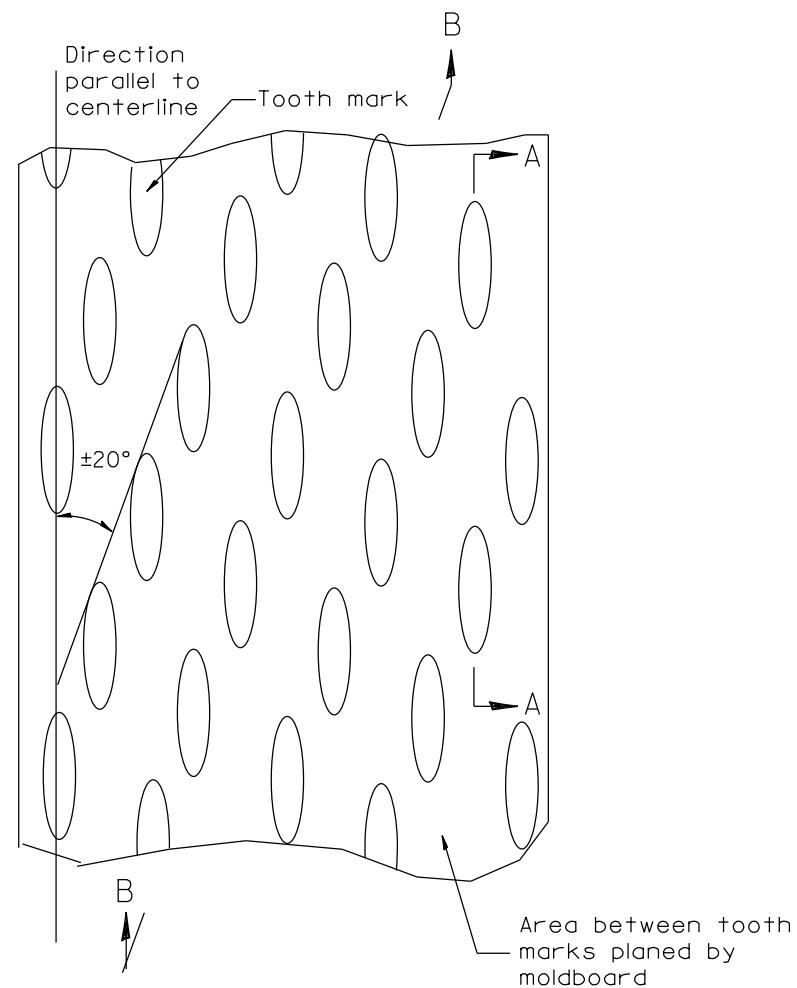
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LINE DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

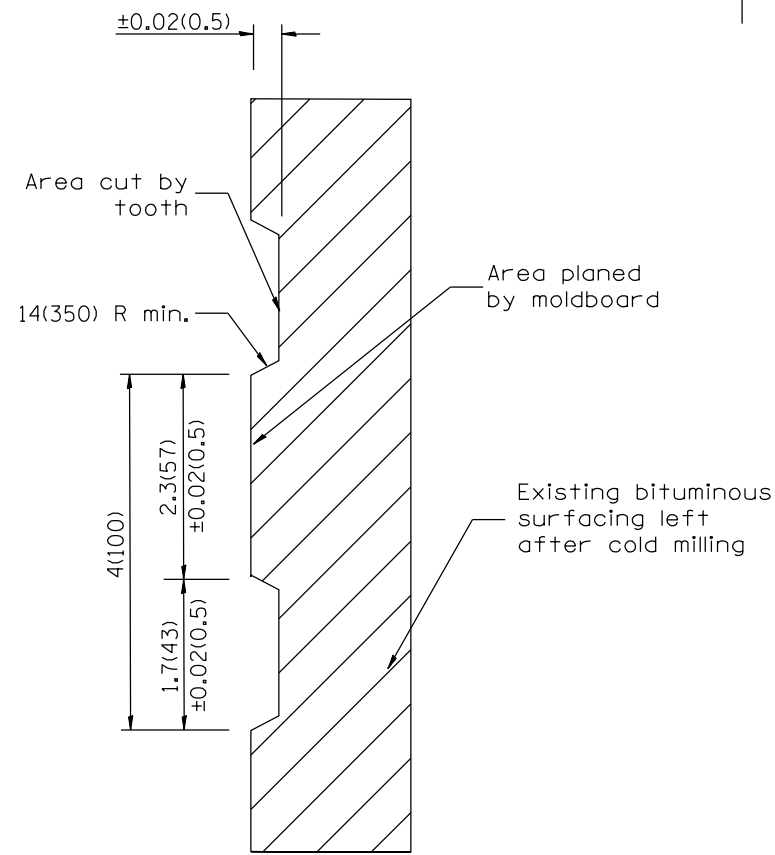
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(28, 29)RS, PP	WARREN	7	6
CONTRACT NO. 68D21				
ILLINOIS FED. AID PROJECT				



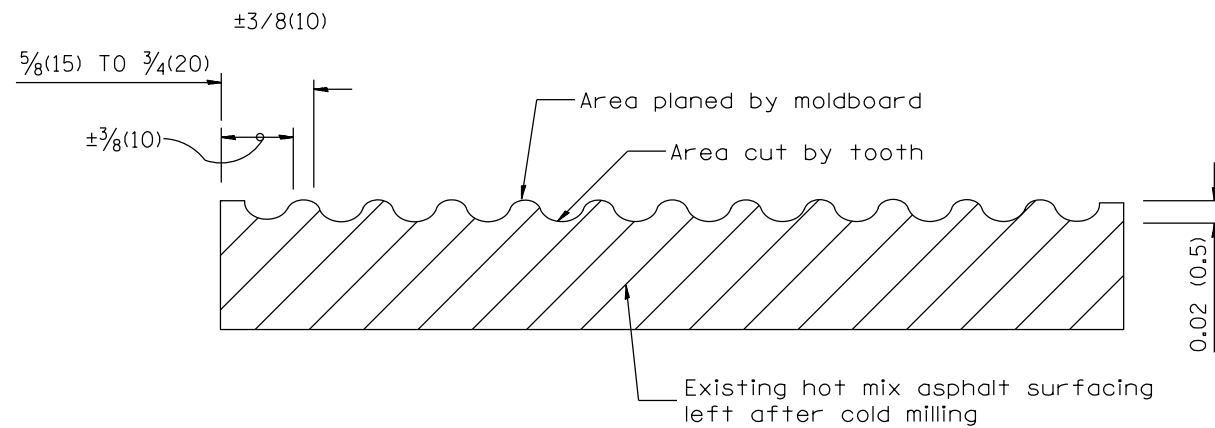
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED  
PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(28,29)RS, PP	WARREN	7	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D21	