

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL-AID SECONDARY SECTION**

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	1
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	

INDEX OF SHEETS

1. COVER SHEET, SUMMARY OF QUANTITIES
2. TYPICAL SECTIONS, GENERAL NOTES, DETAILS
3. SCHEDULES & DETAILS
4. LINE DIAGRAMS
5. LINE DIAGRAMS
6. LINE DIAGRAMS
7. WIDENING PLAN AND PROFILE
8. WIDENING PLAN AND PROFILE

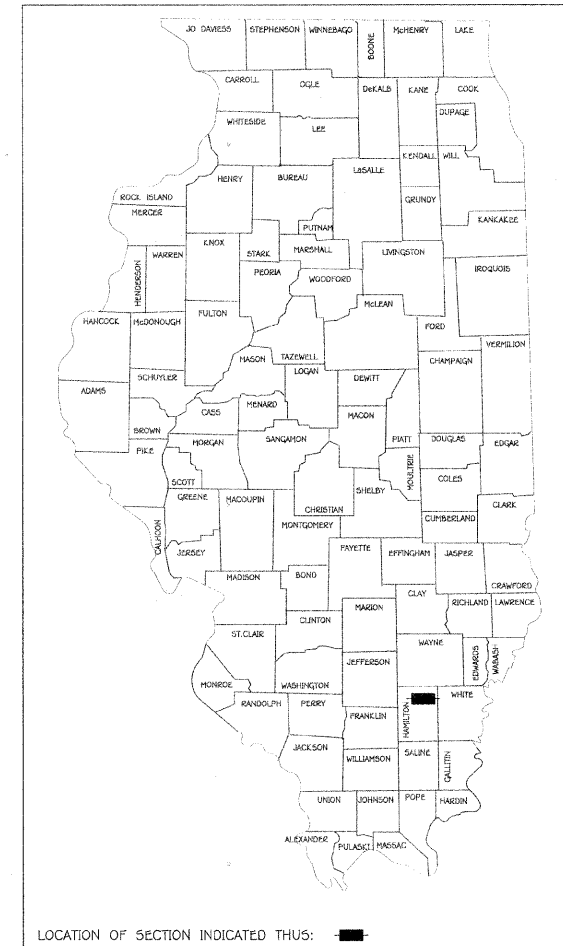
INDEX OF STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-03 LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS > 45 MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-02 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-02 TYPICAL PAVEMENT MARKINGS
- B.L.R. 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

SCALE5:

PLAN	1" = 100'	
PROFILE HORIZ.	1" = 50'	
VERT.	1" = 5'	

F.A.S. ROUTE NO. FAS 880 (CH8)
SECTION 08-00103-00-RS
PROJECT SR-880 (107)
JOB NO. C-99-522-08
HAMILTON COUNTY



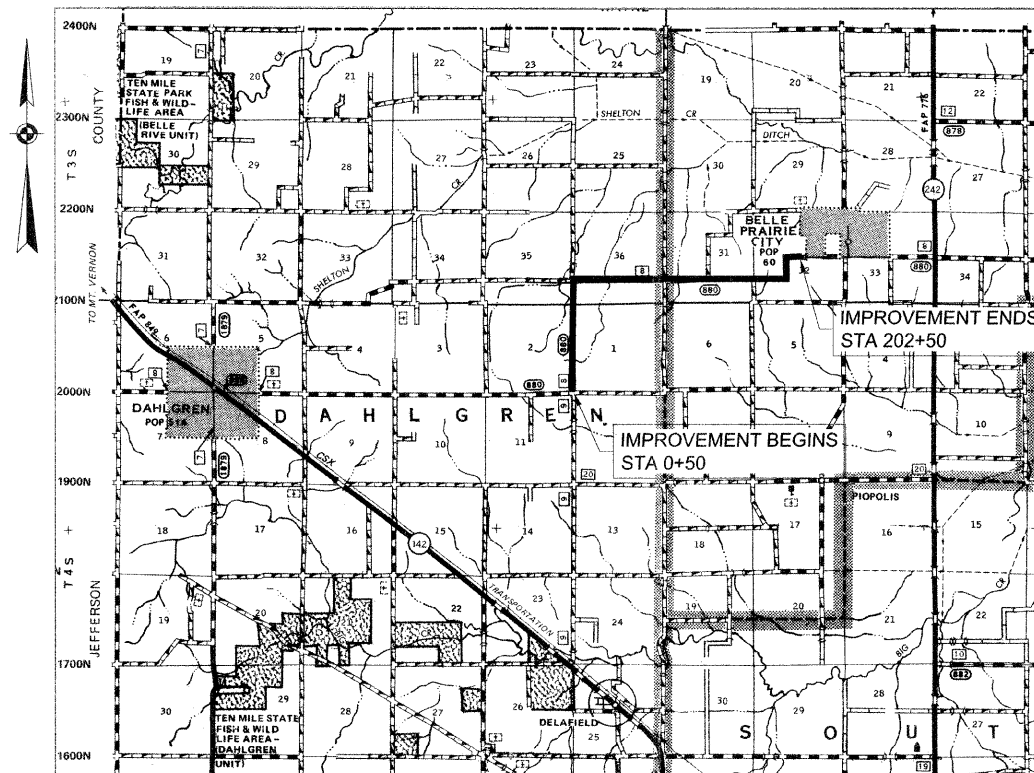
SUMMARY OF QUANTITIES

Code Number	Item	Unit	Quantity
XX003140	SHORT-TERM PAVEMENT MARKING REMOVAL	FOOT	4040
XX127400	PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)	TON	145
20200500	EARTH EXCAVATION (WIDENING)	CU YD	112
35600700	HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	SQ YD	672
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2510
40600300	AGGREGATE (PRIME COAT)	TON	52
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5422
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	5042
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1012
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4040
72000100	SIGN PANEL - TYPE 1	SQ FT	34
72900100	METAL POST - TYPE A	FOOT	48
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	54125

* SPECIALTY ITEMS

J.U.L.I.E. (DIAL: 811)
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 99450
DESIGN CLASS: MAJOR RURAL COLLECTOR
CURRENT A.D.T. = 400
DESIGN SPEED = 40 MPH



LOCATION MAP

NOT TO SCALE

TOTAL LENGTH OF IMPROVEMENTS = 20,200 FT. (3.826 MI.)
NET LENGTH OF IMPROVEMENTS = 20,200 FT. (3.826 MI.)

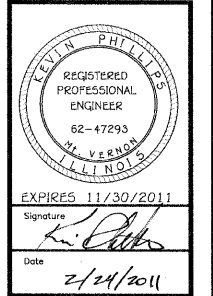
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED _____ DATE 2/24/2011
Kevin Phillips
COUNTY ENGINEER

PASSED _____ DATE 2/28/2011
Dennis W. Hilleb
DISTRICT 9 ENGINEER OF LOCAL
ROADS & STREETS

RELEASING FOR
BID, BASED ON
LIMITED REVIEW _____ DATE 2/28/2011
Mary C. Lamee
MARY C. LAMEE, PE
DEPUTY DIRECTOR OF HIGHWAY
REGION FIVE ENGINEER

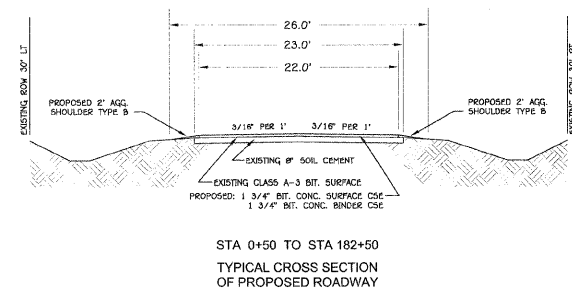
HAMILTON COUNTY
HIGHWAY DEPARTMENT
100 SOUTH JACKSON, McLEANSBORO, ILLINOIS
engineer@hamiltonco.us
(618) 643-2714



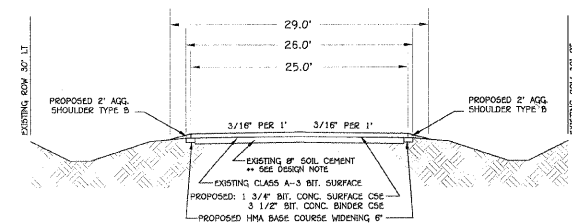
FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

SHEET TITLE: COVER SHEET
Date 1/6/2011
Rev. Date
Scale N.T.S.
Sheet 1

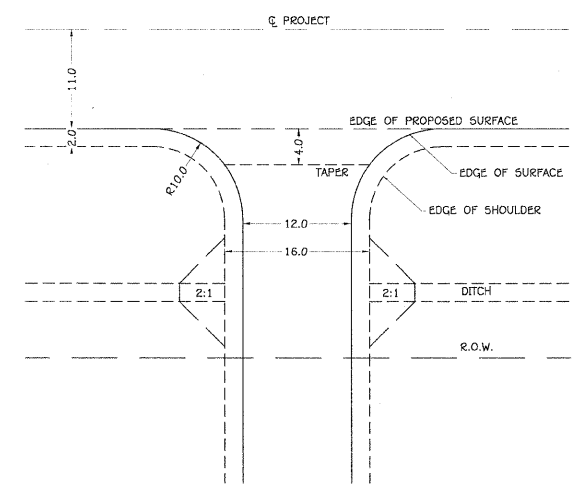
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	2
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	



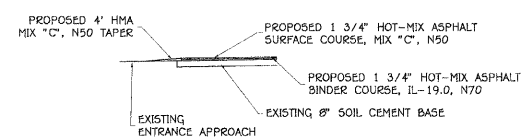
STA 0+50 TO STA 182+50
TYPICAL CROSS SECTION
OF PROPOSED ROADWAY



STA 182+50 TO STA 202+50
TYPICAL CROSS SECTION
OF PROPOSED ROADWAY

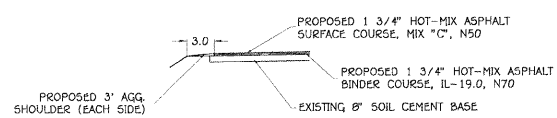


PRIVATE & FIELD ENTRANCE DETAIL
N.T.S.

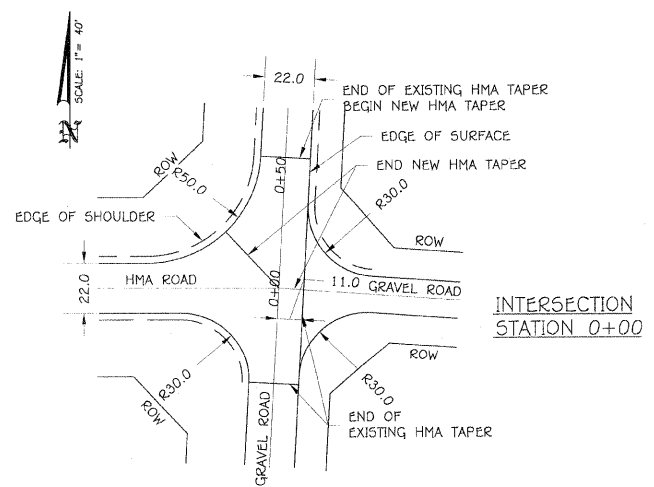


NOTE: THE QUANTITY FOR THE 4\"/>

PRIVATE & FIELD ENTRANCE APPROACH
N.T.S.

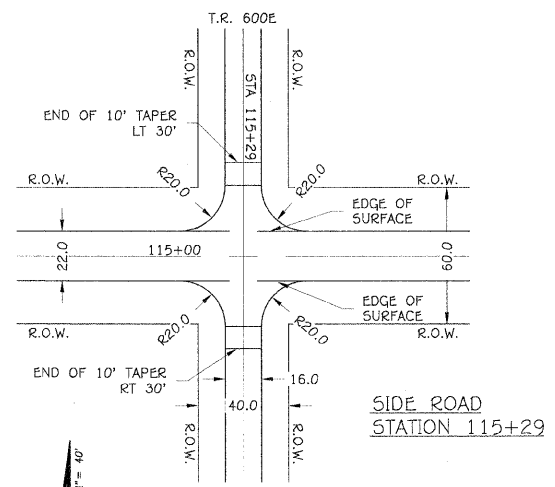


AGGREGATE SHOULDER DETAIL
N.T.S.

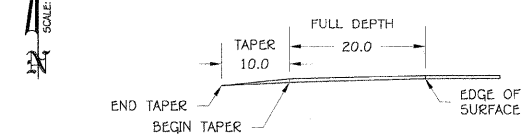


INTERSECTION
STATION 0+00

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 = 18.37 TON (INCLUDED)

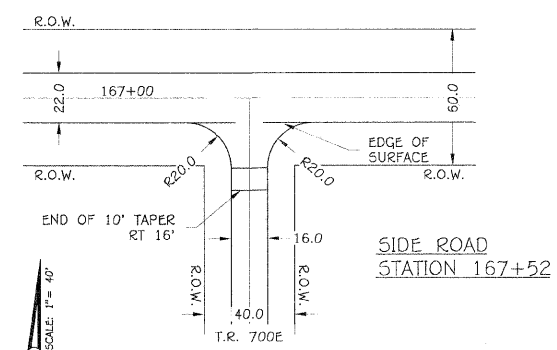


SIDE ROAD
STATION 115+29

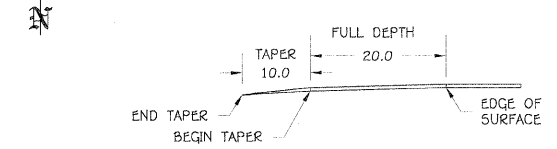


SIDE ROAD PROFILE

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 = 28.00 TON (INCLUDED)



SIDE ROAD
STATION 167+52



SIDE ROAD PROFILE

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 = 14.00 TON (INCLUDED)

GENERAL NOTES:

THIS SECTION CONSISTS OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL, EARTH EXCAVATION (WIDENING), HOT-MIX ASPHALT BASE COURSE WIDENING, 6" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70 AND HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, AGGREGATE SHOULDERS AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PROJECT. ALL IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007.

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTION 02-0091-00-FP AND SHALL REMAIN IN PLACE. ALL STATIONS REFERRED TO IN THE PLANS AND PROPOSAL ARE REFERENCED TO THE ABOVE MENTIONED SECTIONS.

MAXIMUM PERCENT GRADE: 3.923%
DESIGN SPEED: 40 MPH
CURRENT ADT: 400

THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 SHALL BE PLACED IN ONE LIFT WITH A MINIMUM THICKNESS OF 1 3/4".

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 ALLOWS THE FOLLOWING:

INTERSECTIONS:	28.0 TON
SIDERoadS & TAPERS:	74.0 TON
ENTRANCES:	31.5 TON
MAILBOX TURNOUTS:	17.5 TON
MAINLINE ROAD:	4891.0 TON
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50:	5042.0 TON

A HOT-MIX ASPHALT TAPER OF 3 1/2" TO 0" SHALL BE CONSTRUCTED FROM 0+00 TO 0+50 AND 5 1/2" FROM 202+00 TO 202+50.

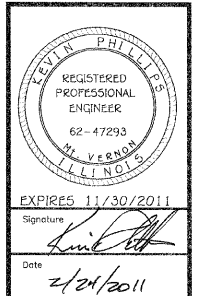
THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE SHOULDERS, TY. B:	1.8	TON/CU YD
HOT-MIX ASPHALT:	0.0560	TON/SQ YD * IN
AGGREGATE (PRIME COAT)	0.0010	TON/SQ YD
BITUMINOUS MATERIAL (PRIME COAT)	0.05	GAL/SQ YD

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITIES AFFECTING THE PROJECT, PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS, LICENSES, COSTS AND PAYMENTS TO GOVERNMENTAL AUTHORITIES FOR THE ISSUANCE OF PERMITS.

HAMILTON COUNTY
HIGHWAY DEPARTMENT
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FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

SHEET TITLE:	TYPICAL SECTIONS, DETAILS
Date	1/6/2011
Rev. Date	
Scale	N.T.S.
Sheet	2

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	3
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	

SCHEDULE FOR SIGNS & POSTS

STA	LOCATION	MUTCD CODE	STYLE	SIZE	SQ. FT.	METAL POST TYPE A LENGTH
57+60	23' RT	W1-2R	CURVE, RT	30"x30"	6.25	12'
		W13-1P	40 MPH	18"x18"	2.25	
70+82	23' LT	W1-2L	CURVE, LT	30"x30"	6.25	12'
		W13-1P	40 MPH	18"x18"	2.25	
179+67	23' RT	W1-4L	REV CURVE	30"x30"	6.25	12'
		W13-1P	40 MPH	18"x18"	2.25	
204+30	23' LT	W1-4L	REV CURVE	30"x30"	6.25	12'
		W13-1P	40 MPH	18"x18"	2.25	
TOTAL					34.00	48'

SCHEDULE OF PAVEMENT MARKINGS

STATION TO STATION	LOCATION	LENGTH (FOOT)
CENTERLINE		
0+50	62+50	CL 1550
66+00	184+00	CL 2350
EDGE LINE LEFT		
0+00	64+02	LT 6402
64+42	115+09	LT 5067
115+49	140+86	LT 2537
141+26	202+50	LT 6124
EDGE LINE RIGHT		
0+50	115+09	RT 11509
115+49	167+32	RT 5183
167+72	202+50	RT 3478
NO PASSING		
53+50	66+00	RT 1250
62+50	75+00	LT 1250
96+25	102+25	RT 600
105+25	111+25	LT 600
142+25	148+00	RT 575
151+50	157+00	LT 550
175+50	202+50	RT 2700
184+00	202+50	LT 1850
TOTAL "PAVEMENT MARKING - LINE 4" = 54125		

SCHEDULE OF SIDE ROADS & PRIVATE ENTRANCES

STATION	LOCATION	TYPE	QNTY (TON)
2+41	RT	PE	2.1
51+65	LT	PE	2.4
56+71	RT	PE	2.1
64+22	LT	SR	14.0
75+67	LT	PE	1.8
103+11	RT	PE	5.2
105+11	RT	PE	5.2
115+29	LT/RT	SR	28.0
136+16	LT	PE	4.1
138+60	LT	PE	2.1
141+06	LT	SR	14.0
148+55	LT	PE	2.4
167+52	RT	SR	14.0
180+60	LT	PE	1.8
197+61	LT	PE	2.1
TOTAL =			101.6 (TON)

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (INCLUDED)

SCHEDULE OF PAVEMENT REMOVAL & REPLACEMENT (SPECIAL)

STATION	STATION	LOCATION	WIDTH (FT)	SQ. YD.	TON
22+81	23+06	6' LT	3.0'	8.3	3.7
23+41	23+71	7' LT	2.5'	8.3	3.7
24+51	24+86	6' LT	4.0'	15.6	7.0
25+18	25+38	4' LT	3.0'	6.7	3.0
48+74	49+29	LT EDGE	5.0'	30.5	13.7
49+41	49+81	6' LT	3.0'	13.3	6.0
50+79	51+19	6' LT	3.0'	13.3	6.0
109+12	111+02	9' LT	4.0'	84.4	37.8
111+02	114+62	6' LT	3.0'	120.0	53.8
130+82	131+92	6.5' RT	3.0'	23.3	10.4
TOTALS =				323.7	145.1

THIS QUANTITY IS INCLUDED IN THE "PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)" ITEM OF THE SUMMARY OF QUANTITIES.

SCHEDULE OF MAILBOX TURNOUTS

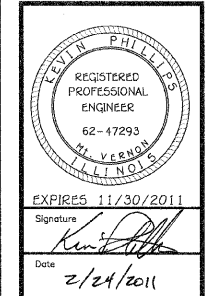
STATION	LOCATION	QNTY (TON)
51+40	LT	2.5
56+55	RT	2.5
103+10	LT	2.5
103+10	LT	2.5
137+35	LT	2.5
148+70	LT	2.5
180+70	LT	2.5
197+40	LT	2.5
TOTAL =		17.5

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (INCLUDED)

SCHEDULE FOR SUPERELEVATION RATES

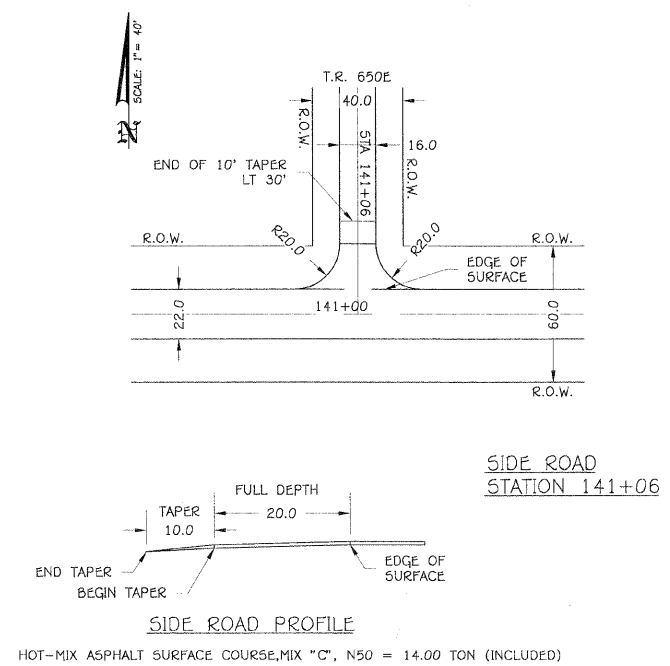
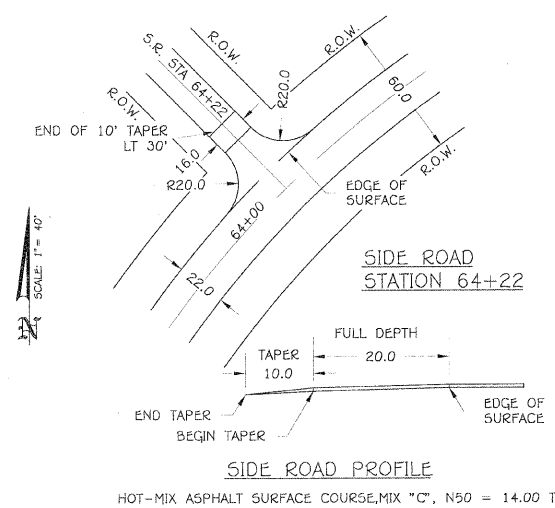
CURVE #1	
TANGENT RUNOUT BEGINS	STA 52+21.97
S.E. RUNOFF BEGINS	STA 52+54.23
FULL S.E. BEGINS	STA 53+14.93
FULL S.E. ENDS	STA 54+74.47
S.E. RUNOFF ENDS	STA 55+35.17
TANGENT RUNOUT ENDS	STA 55+67.43
S.E. RATE = 0.0294 FT/FT	
CURVE #2	
TANGENT RUNOUT BEGINS	STA 55+92.59
S.E. RUNOFF BEGINS	STA 56+24.99
FULL S.E. BEGINS	STA 56+79.52
FULL S.E. ENDS	STA 58+43.16
S.E. RUNOFF ENDS	STA 58+97.69
TANGENT RUNOUT ENDS	STA 59+30.09
S.E. RATE = 0.0263 FT/FT	
CURVE #3	
TANGENT RUNOUT BEGINS	STA 59+18.35
S.E. RUNOFF BEGINS	STA 59+50.88
FULL S.E. BEGINS	STA 61+15.88
FULL S.E. ENDS	STA 67+27.59
S.E. RUNOFF ENDS	STA 68+92.59
TANGENT RUNOUT ENDS	STA 69+24.82
S.E. RATE = 0.08 FT/FT	
CURVE #4	
TANGENT RUNOUT BEGINS	STA 181+25.63
S.E. RUNOFF BEGINS	STA 181+57.86
FULL S.E. BEGINS	STA 183+22.86
FULL S.E. ENDS	STA 189+50.55
S.E. RUNOFF ENDS	STA 191+15.55
TANGENT RUNOUT ENDS	STA 191+47.78
S.E. RATE = 0.08 FT/FT	
CURVE #5	
TANGENT RUNOUT BEGINS	STA 192+48.96
S.E. RUNOFF BEGINS	STA 192+81.19
FULL S.E. BEGINS	STA 194+46.19
FULL S.E. ENDS	STA 200+75.37
S.E. RUNOFF ENDS	STA 202+40.37
TANGENT RUNOUT ENDS	STA 202+72.60
S.E. RATE = 0.08 FT/FT	

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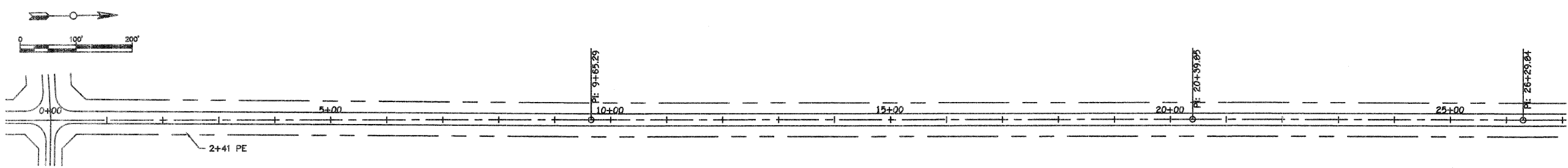


FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

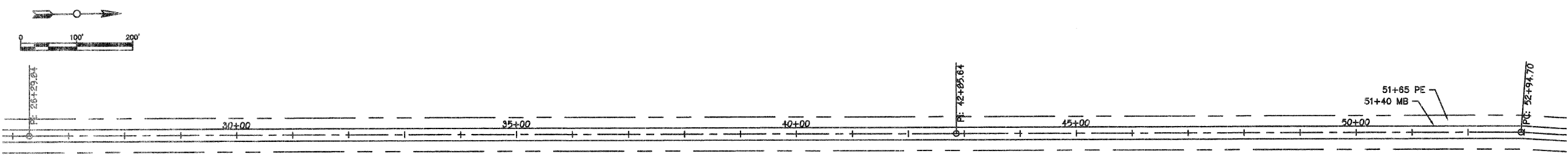
SHEET TITLE:	SCHEDULES & DETAILS
Date:	1/6/2011
Rev. Date:	
Scale:	N.T.S.
Sheet:	3



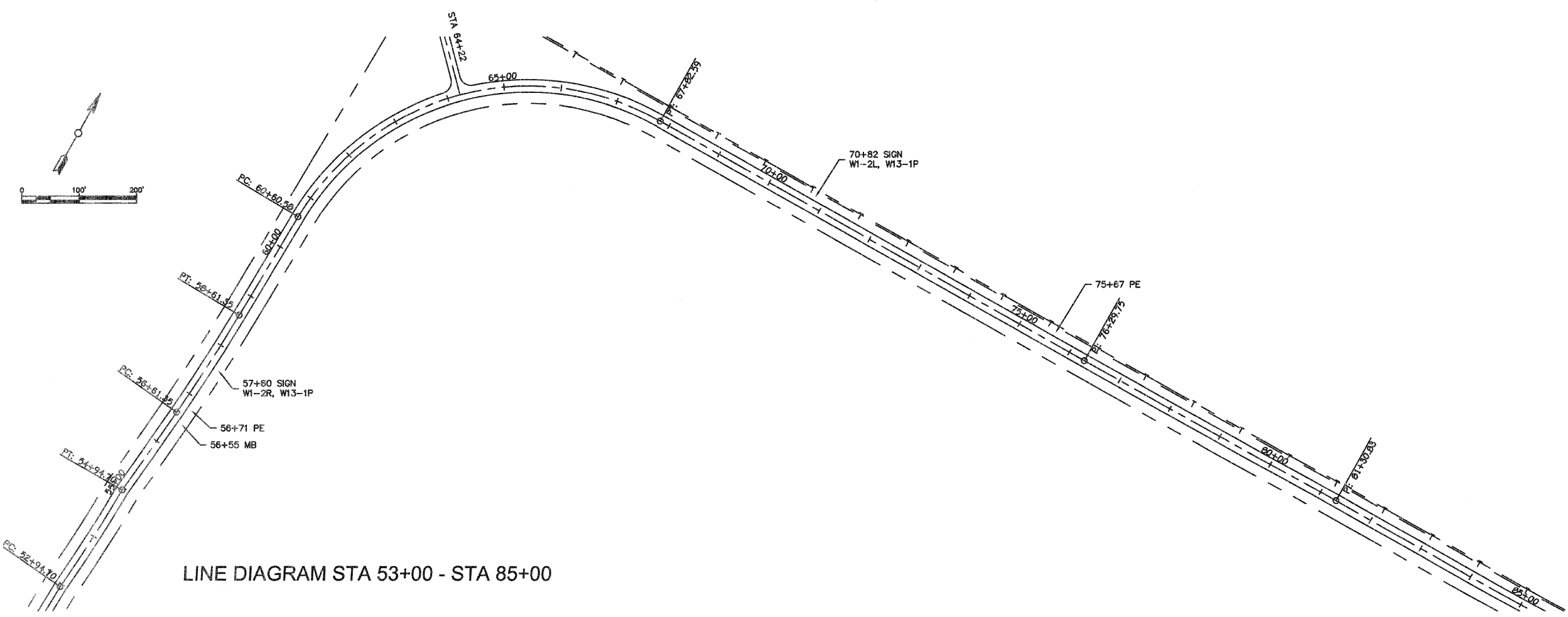
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	4
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	



LINE DIAGRAM STA 0+00 - STA 27+00

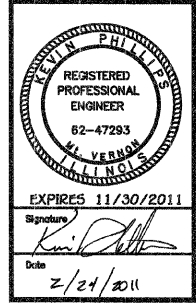


LINE DIAGRAM STA 27+00 - STA 53+00



LINE DIAGRAM STA 53+00 - STA 85+00

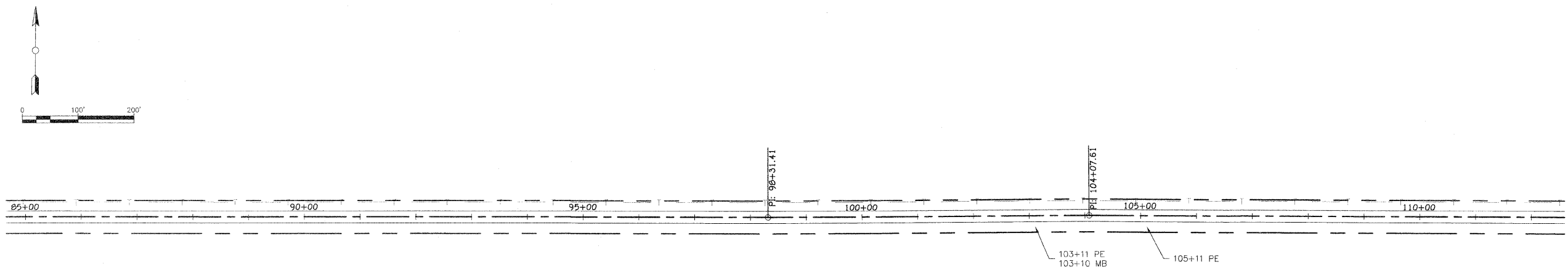
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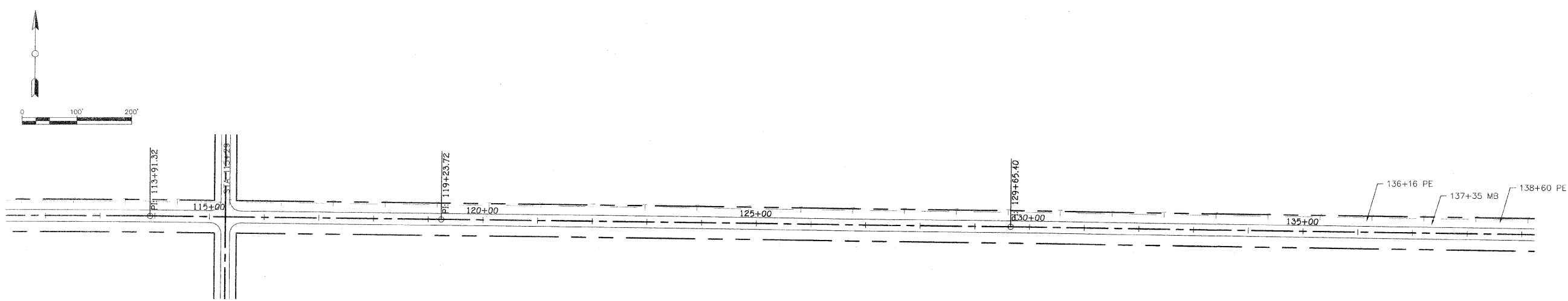
FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

SHEET TITLE:	
PLAN & PROFILE	
Date	DATE
Rev. Date	REVDATE
Scale	SCALE
Sheet	4

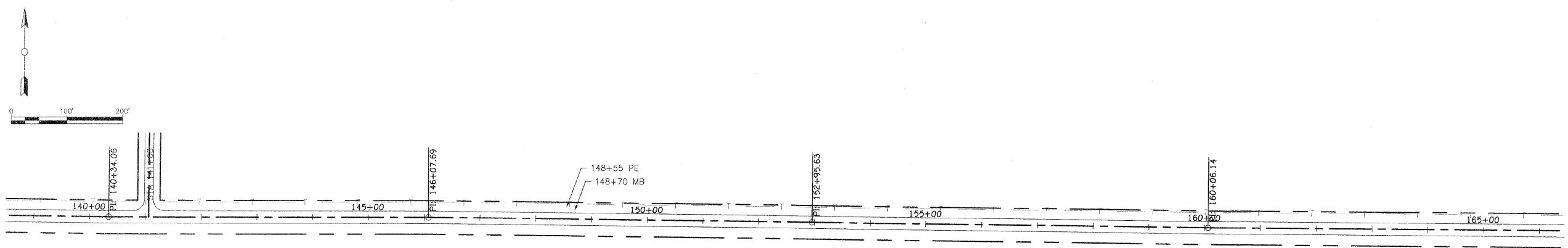
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	5
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	



LINE DIAGRAM STA 85+00 - STA 112+00



LINE DIAGRAM STA 112+00 - STA 139+00



LINE DIAGRAM STA 139+00 - STA 166+00

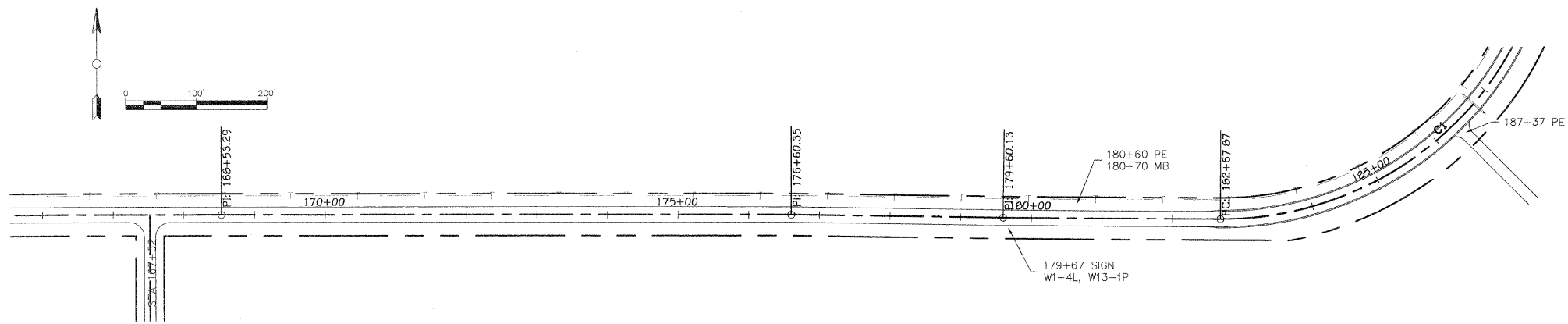
**HAMILTON COUNTY
HIGHWAY DEPARTMENT**
100 SOUTH JACKSON, McLEANSBORO, ILLINOIS
engineer@hamiltonco.us
(618) 643-2714

REGISTERED PROFESSIONAL ENGINEER
62-47293
KEVIN PHILLIPS
ILLINOIS
EXPIRES 11/30/2011
Signature: *Kevin Phillips*
Date: 2/24/2011

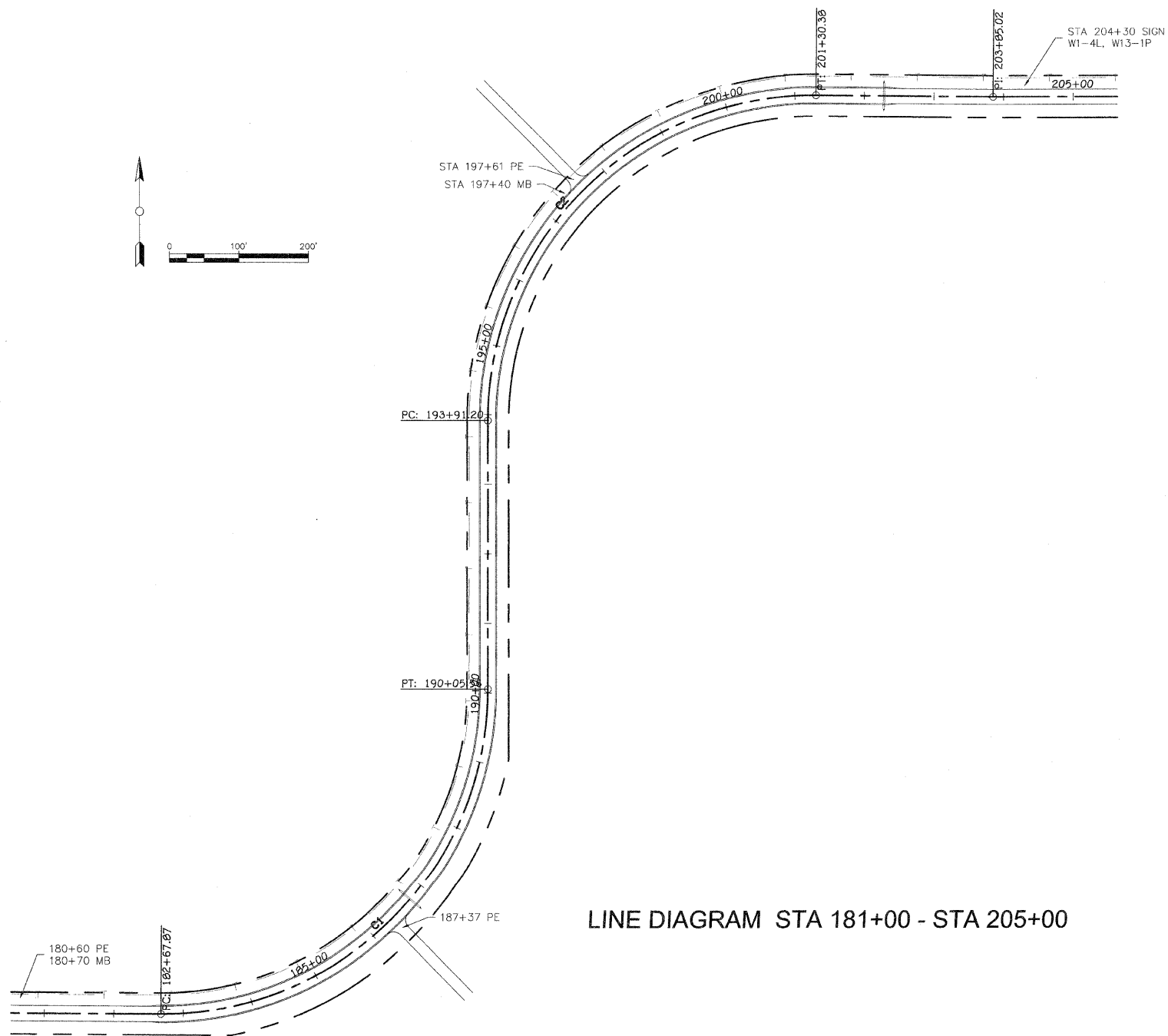
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HAMILTON COUNTY, ILLINOIS

SHEET TITLE PLAN & PROFILE	
Date	DATE
Rev. Date	REVDATE
Scale	SCALE
Sheet	5

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	6
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LINE DIAGRAM STA 166+00 - STA 187+00



LINE DIAGRAM STA 181+00 - STA 205+00

**HAMILTON COUNTY
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KEVIN PHILLIPS
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EXPIRES 11/30/2011
Signature: *Kevin Phillips*
Date: 2/24/2011

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HAMILTON COUNTY, ILLINOIS

SHEET TITLE: PLAN & PROFILE	
Date	DATE
Rev. Date	REVDATE
Scale	SCALE
Sheet	6

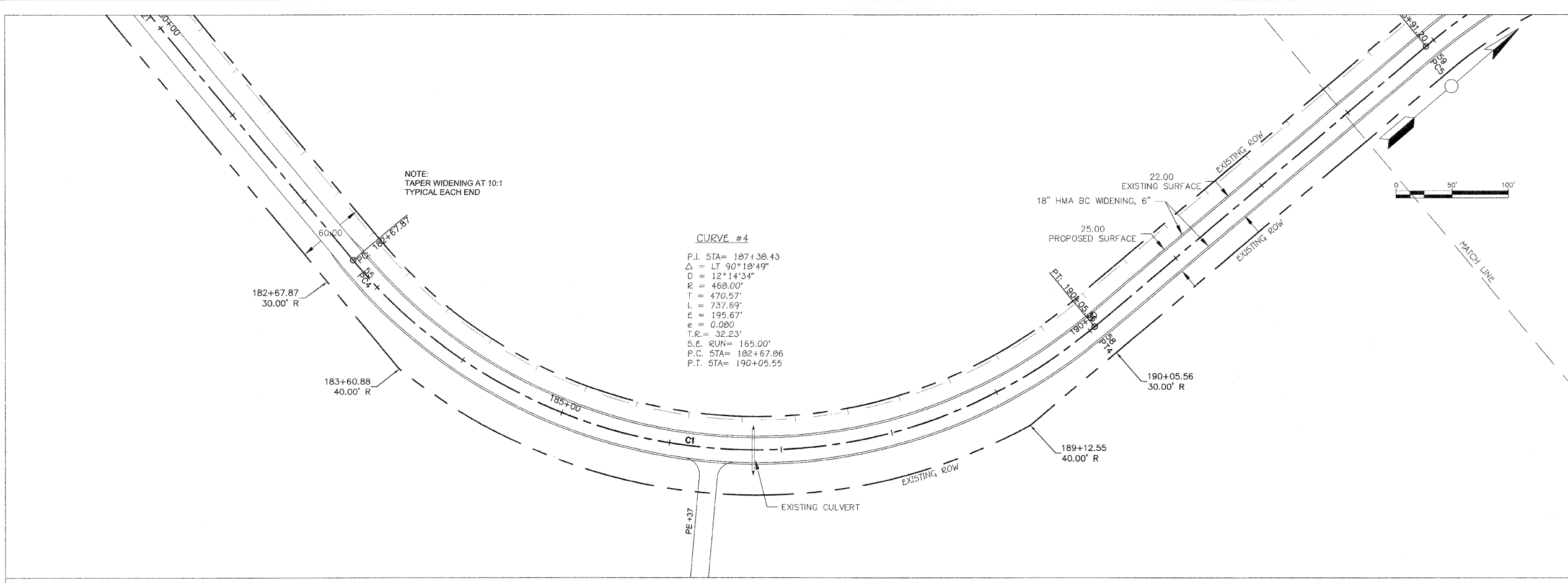
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	7
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	

**HAMILTON COUNTY
HIGHWAY DEPARTMENT**
100 SOUTH JACKSON, McLEANSBORO, ILLINOIS
engineer@hamiltonco.us
(618) 643-2714

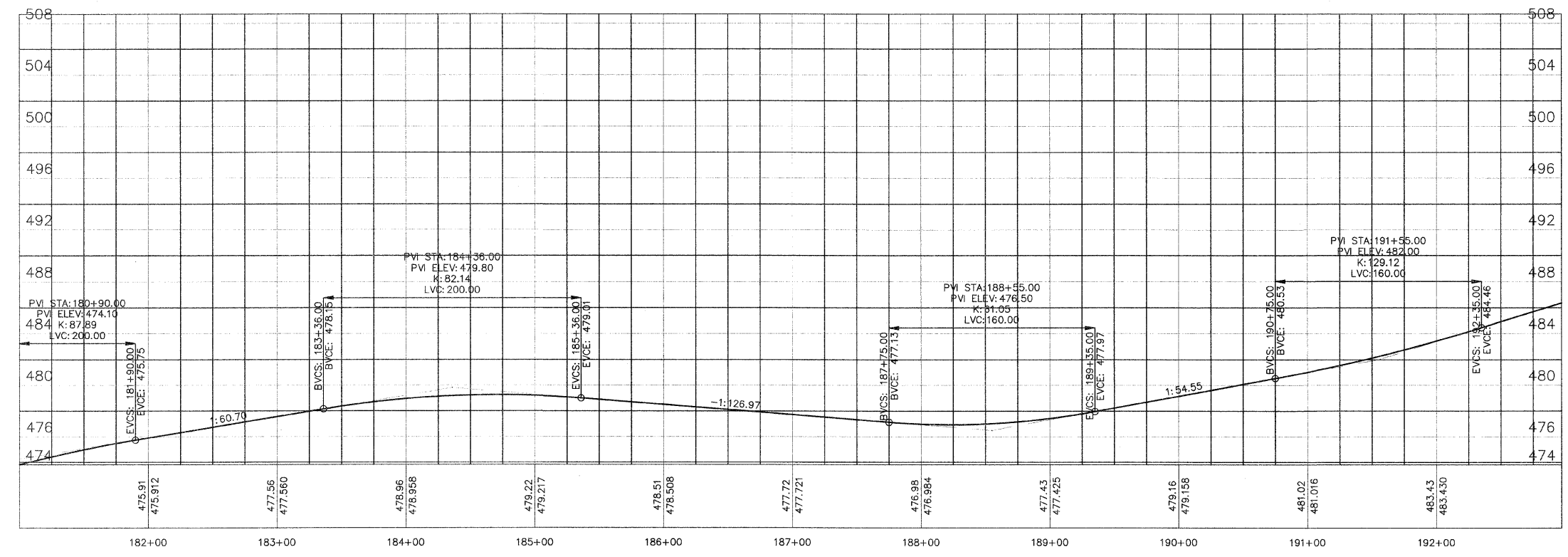
REGISTERED PROFESSIONAL ENGINEER
KEVIN PHILLIPS
62-47293
ILLINOIS
EXPIRES 11/30/2011
Signature: *Kevin Phillips*
Date: 2/24/2011

FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

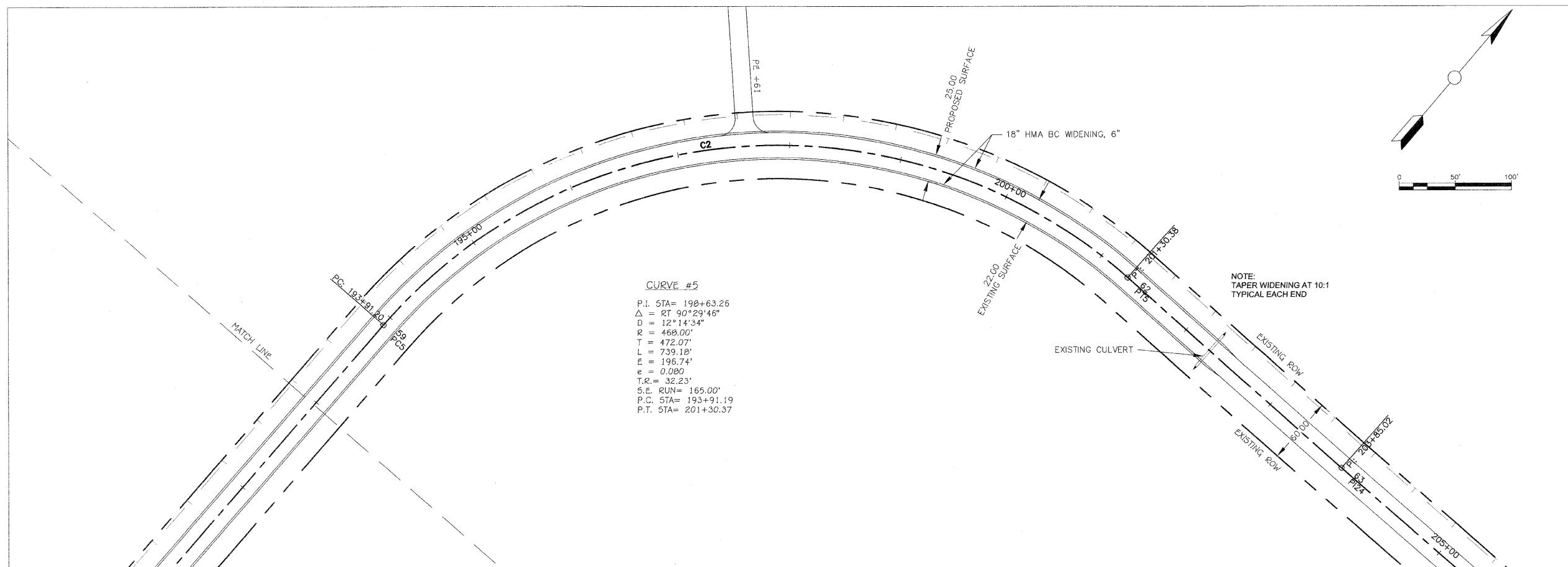
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PLAN & PROFILE
Date: 1/6/2011
Rev. Date:
Scale: 1" = 50'
Sheet:
7



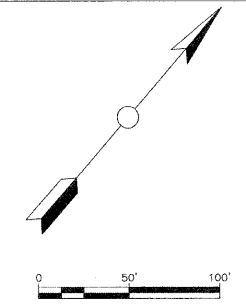
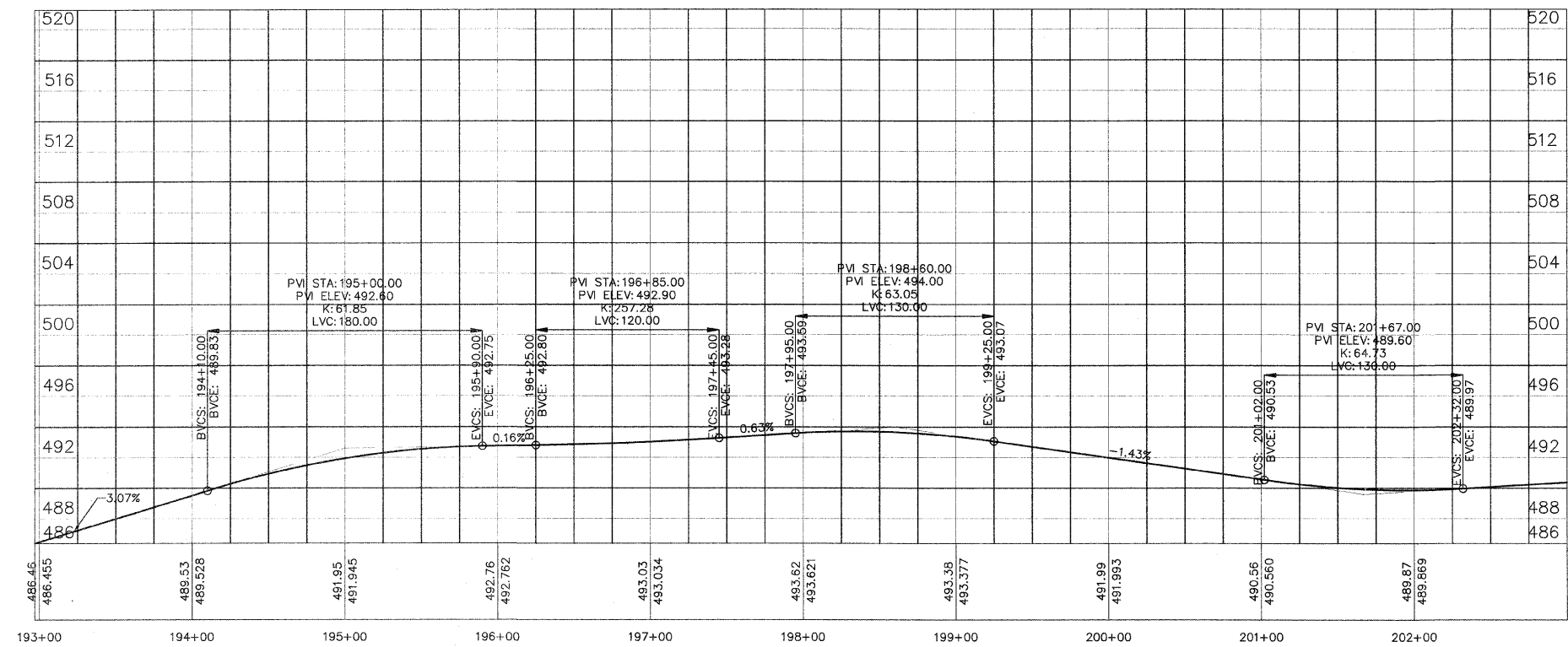
Alignment - (2) PROFILE



F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	08-00103-00-RS	HAMILTON	8	8
FED. ROAD DIST. NO. 7		ILLINOIS	BELLE PRAIRIE RD	



Alignment - (2) PROFILE



**HAMILTON COUNTY
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KEVIN PHILLIPS
REGISTERED PROFESSIONAL ENGINEER
62-47293
ILLINOIS
EXPIRES 11/30/2011
Signature: [Signature]
Date: 2/21/2011

FAS 880 (CH 8)
BELLE PRAIRIE ROAD
08-00103-00-RS
HAMILTON COUNTY, ILLINOIS

SHEET TITLE:
PLAN & PROFILE
Date: _____
Rev. Date: _____
SCALE: _____
Sheet: **8**