

| F.A.S. RTE.                 | SECTION | COUNTY                       | TOTAL SHEETS | SHEET NO. |
|-----------------------------|---------|------------------------------|--------------|-----------|
| 583                         | ****    | SCHUYLER                     | 56           | 8         |
| STA.                        |         | TO STA.                      |              |           |
| FED. ROAD DIST. NO.         |         | ILLINOIS FED. AID PROJECT ** |              |           |
| **** SECTION 02-00067-00-BR |         |                              |              |           |
| ** BRS-583(111)             |         |                              |              |           |

# HORIZONTAL CONTROL

1 DESCRIBE CHAIN RICHL2

Chain RICHL2 contains:  
CHA RICHL 2999

Beginning chain RICHL2 description

Chain RICHL found within chain RICHL2, contains:  
CUR CURVE1 2001 CUR CURVE2 9001 2009 2012

Beginning subchain RICHL description

| Curve Data   |              |                     |                         |
|--------------|--------------|---------------------|-------------------------|
| Curve CURVE1 | P.I. Station | 39+03.00 N          | 1,661.1310 E 1,408.5889 |
| Delta        | =            | 32° 37' 00.09" (LT) |                         |
| Degree       | =            | 3° 30' 00.04"       |                         |
| Tangent      | =            | 478.9563            |                         |
| Length       | =            | 931.9028            |                         |
| Radius       | =            | 1,637.0176          |                         |
| External     | =            | 68.6277             |                         |
| Long Chord   | =            | 919.3704            |                         |
| Mtd. Ord.    | =            | 65.8664             |                         |
| P.C. Station | =            | 34+24.04 N          | 1,672.4295 E 929.7659   |
| P.T. Station | =            | 43+55.94 N          | 1,909.7077 E 1,817.9894 |
| C.C.         | =            | 3,308.9915 E        | 968.3828                |
| Back         | =            | S 88° 38' 53.80" E  |                         |
| Ahead        | =            | N 58° 44' 06.11" E  |                         |
| Chord Bear   | =            | N 75° 02' 36.16" E  |                         |

Course from PT CURVE1 to 2001 N 58° 44' 06.11" E Dist 1,139.8107  
Point 2001 N 2,501.2655 E 2,792.2726 Sta 54+95.75  
Course from 2001 to PC CURVE2 N 58° 44' 06.11" E Dist 352.4337

| Curve Data   |              |                     |                         |
|--------------|--------------|---------------------|-------------------------|
| Curve CURVE2 | P.I. Station | 61+18.92 N          | 2,824.6867 E 3,324.9404 |
| Delta        | =            | 18° 46' 52.73" (RT) |                         |
| Degree       | =            | 3° 30' 00.02"       |                         |
| Tangent      | =            | 270.7326            |                         |
| Length       | =            | 536.6082            |                         |
| Radius       | =            | 1,637.0198          |                         |
| External     | =            | 22.2361             |                         |
| Long Chord   | =            | 534.2090            |                         |
| Mtd. Ord.    | =            | 21.9381             |                         |
| P.C. Station | =            | 58+48.19 N          | 2,684.1774 E 3,093.5245 |
| P.T. Station | =            | 63+84.80 N          | 2,883.2086 E 3,589.2723 |
| C.C.         | =            | N 1,284.8917 E      | 3,943.1323              |
| Back         | =            | N 58° 44' 06.10" E  |                         |
| Ahead        | =            | N 77° 30' 58.84" E  |                         |
| Chord Bear   | =            | N 68° 07' 32.47" E  |                         |

Course from PT CURVE2 to 9001 N 77° 30' 58.83" E Dist 160.6646  
Equation: Sta 65+45.46 (BK) = Sta 67+63.87 (AH) --- End Region 1  
Begin Region 2  
Point 9001 N 2,917.9381 E 3,746.1384 Sta 67+63.87  
Course from 9001 to 2009 N 77° 30' 58.83" E Dist 920.1335  
Point 2009 N 3,116.8351 E 4,644.5178 Sta 76+84.00  
Course from 2009 to 2012 N 77° 30' 58.83" E Dist 816.0000  
Point 2012 N 3,293.2226 E 5,441.2257 Sta 85+00.00

Ending subchain RICHL description

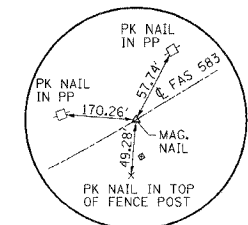
Course from 2012 to 2999 N 77° 30' 58.83" E Dist 300.0000

Equation: Sta 88+00.00 (BK) = Sta 0+00.00 (AH) --- End Region 2  
Begin Region 3  
Point 2999 N 3,358.0710 E 5,734.1330 Sta 0+00.00

Ending chain RICHL2 description

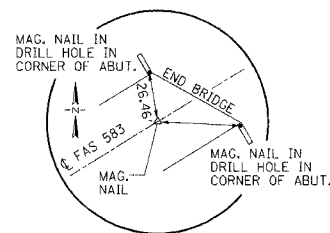
PC Sta. 34+24.04

EXIST. CURVE CURVE1  
PI STA. = 39+03.00  
Δ = 32° 37' 00" (LT)  
D = 3° 30' 00"  
R = 1,637.02'  
T = 478.96'  
L = 931.90'  
E = 68.63'  
P.C. STA. = 34+24.04  
P.T. STA. = 43+55.94

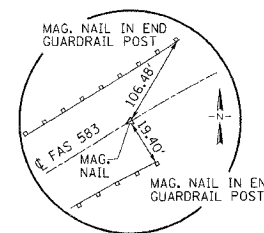


P.T. STA. 43+55.94  
MAG. NAIL

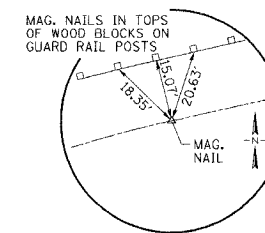
CL FAS 583 (CHAIN RICHL2)



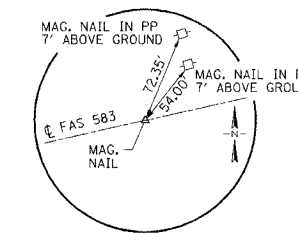
P.O.T. STA. 48+50.00  
MAG. NAIL



P.C. STA. 58+48.19  
MAG. NAIL



P.T. STA. 63+84.80  
MAG. NAIL



P.O.T. STA. EQUATION  
STA. 65+45.46 (BK) =  
STA. 67+63.87 (AH)  
MAG. NAIL



0 100 200  
SCALE IN FEET

DATE = 02/25/2005  
FILE NAME = 583L2  
SCALE = AS SHOWN  
DRAWN BY = SUTHEARD  
CHECKED BY = BOETT  
OPERATOR = MUSEK

NOTE: FOR BENCHMARK DATA SEE PLAN AND PROFILE SHEET.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HORIZONTAL CONTROL**  
FAS 583 (CH 5) OVER LAMOINE RIVER  
SEC. 02-00067-00-BR  
SCHUYLER COUNTY

SCALE: VERT. 1"=100'  
HORIZ. 1"=100'  
DATE 2/25/2005

DRAWN BY SUTHEARD  
CHECKED BY BOETT

GREENE & BRADFORD, INC.  
CONSULTING ENGINEERS  
1001 W. 10TH ST., SUITE 100  
MOUNTAIN VIEW, MO 64061  
TEL: 816-431-1100 FAX: 816-431-1101

COMPUTER FILE NO. 02157HVC  
PROJECT 02157  
5/12/06-MDS