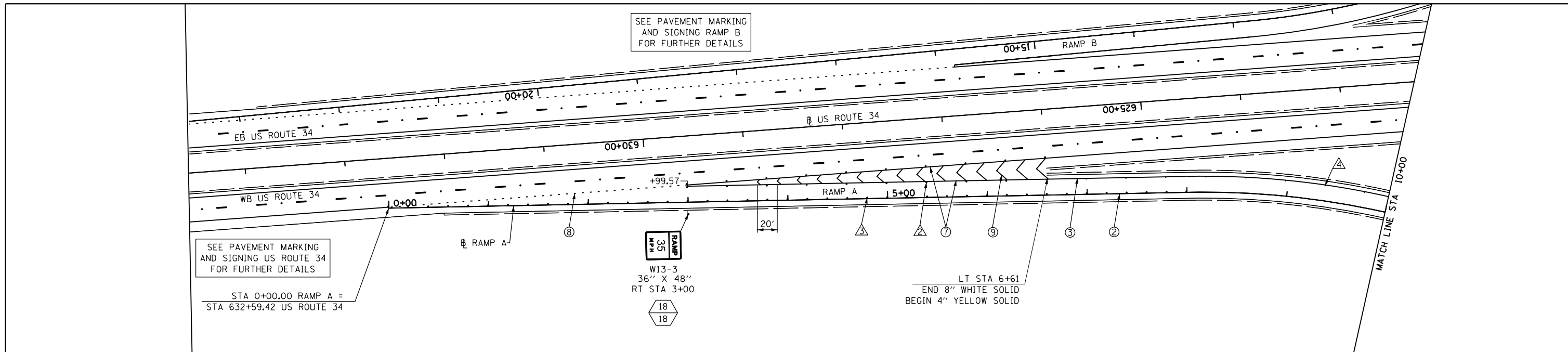


PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS	△	ONE-WAY CRYSTAL MARKER AT 80' CENTERS
②	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID	△	ONE-WAY CRYSTAL MARKER AT 40' CENTERS
③	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID	△	ONE-WAY CRYSTAL MARKER AT 20' CENTERS
④	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)	▲	ONE-WAY AMBER MARKER AT 40' CENTERS
⑤	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH	▲	ONE-WAY AMBER MARKER AT 20' CENTERS
⑥	PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH	◆	TWO-WAY AMBER MARKER
⑦	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID	◆	TWO-WAY CRYSTAL / RED MARKER
⑧	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED	◆	TWO-WAY AMBER / RED MARKER
⑨	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID		
⑩	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID		
⑪	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)		
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4		SIGN POST LEGEND	
		◆	WOOD POST LENGTH
		◆	OFFSET FROM EOP

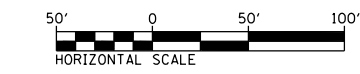
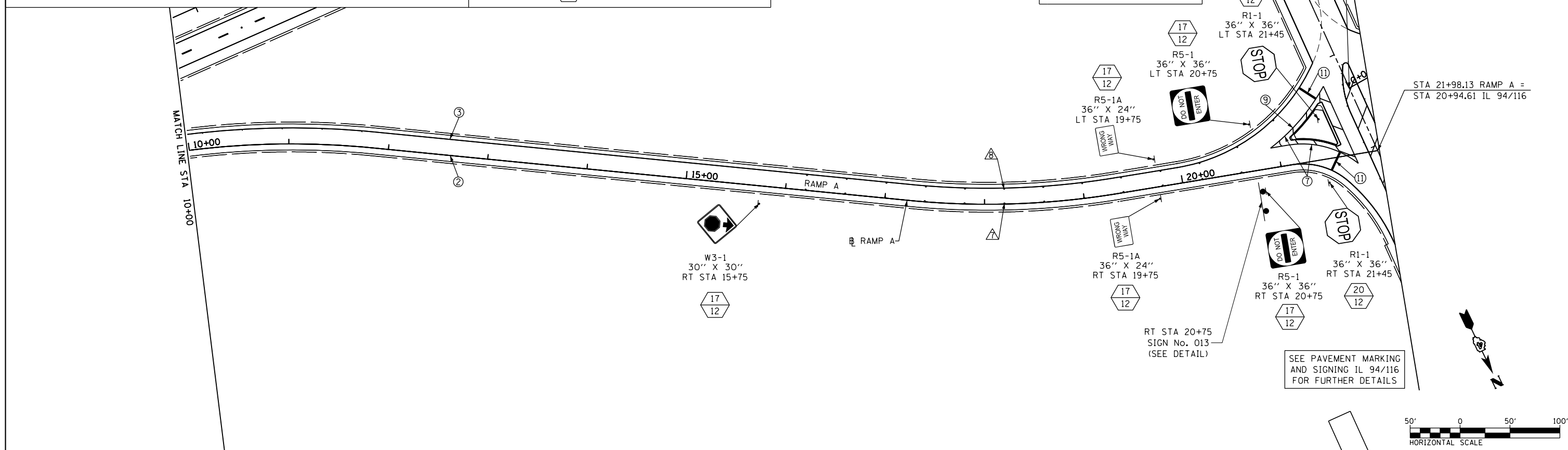
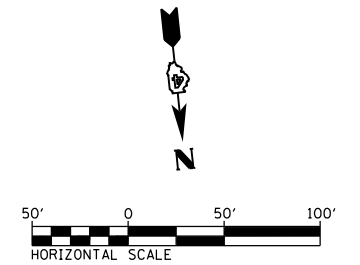


- PAVEMENT MARKING LEGEND**
- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
  - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
  - ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
  - ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
  - ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
  - ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
  - ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
  - ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
  - ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
  - ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
  - ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

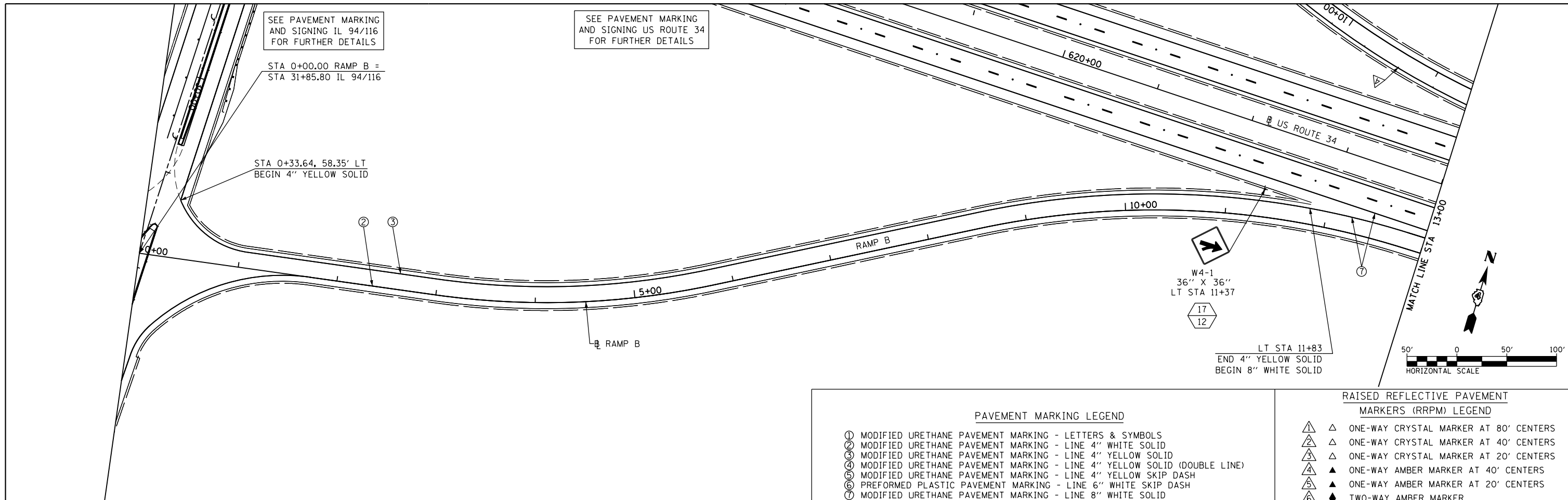
- RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND**
- △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
  - △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
  - △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
  - ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
  - ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
  - ◆ TWO-WAY AMBER MARKER
  - ◆ TWO-WAY CRYSTAL / RED MARKER
  - ◆ TWO-WAY AMBER / RED MARKER

- SIGN POST LEGEND**
- WOOD POST LENGTH
  - OFFSET FROM EOP

• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4



FILE NAME = D468409-SHT-14-PMK-RAMP.A-01.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND SIGNING RAMP A</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 402
	PLOT SCALE = 100.0000' / 1" =	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 14 OF 24 SHEETS	STA. 0+00	TO STA. 21+98.13	CONTRACT NO. 68409			
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -		ILLINOIS FED. AID PROJECT							



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

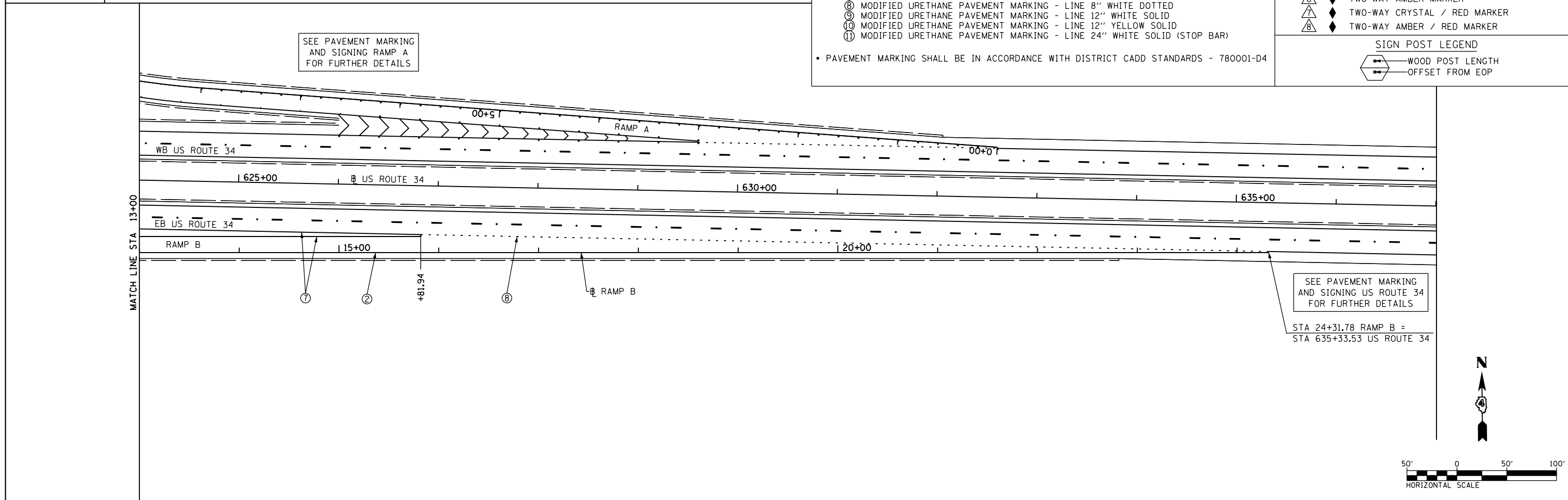
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

**RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND**

△	ONE-WAY CRYSTAL MARKER AT 80' CENTERS
△	ONE-WAY CRYSTAL MARKER AT 40' CENTERS
△	ONE-WAY CRYSTAL MARKER AT 20' CENTERS
▲	ONE-WAY AMBER MARKER AT 40' CENTERS
▲	ONE-WAY AMBER MARKER AT 20' CENTERS
◆	TWO-WAY AMBER MARKER
◆	TWO-WAY CRYSTAL / RED MARKER
◆	TWO-WAY AMBER / RED MARKER

**SIGN POST LEGEND**

⬄	WOOD POST LENGTH
⬄	OFFSET FROM EOP



FILE NAME = D468409-SHT-15-PMK-RAMP.B-01.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND SIGNING RAMP B</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 403
	PLOT SCALE = 100.0000' / 1in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 15 OF 24 SHEETS	STA. 0+00	TO STA. 24+31.78	CONTRACT NO. 68409			
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -		ILLINOIS FED. AID PROJECT							

SEE PAVEMENT MARKING AND SIGNING RAMP D FOR FURTHER DETAILS

SEE PAVEMENT MARKING AND SIGNING US ROUTE 34 FOR FURTHER DETAILS

STA 0+00.00 RAMP C =  
STA 592+35.97 US ROUTE 34

PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

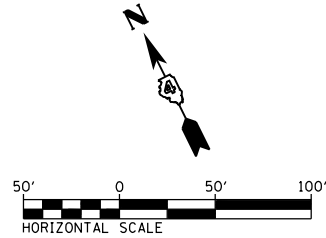
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND

- △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ◆ TWO-WAY AMBER MARKER
- ◆ TWO-WAY CRYSTAL / RED MARKER
- ◆ TWO-WAY AMBER / RED MARKER

SIGN POST LEGEND

- WOOD POST LENGTH
- OFFSET FROM EOP



SEE PAVEMENT MARKING AND SIGNING US ROUTE 34 FOR FURTHER DETAILS

SEE PAVEMENT MARKING DETAILS SHEET FOR ISLAND DETAILS

SEE PAVEMENT MARKING AND SIGNING IL 94/116 FOR FURTHER DETAILS

STA 22+21.40 RAMP C =  
STA 32+39.06 IL 94/116

MATCH LINE STA 10+50



FILE NAME =  
D468409-SHT-16-PMK-RAMP.C-01.dgn

USER NAME = zach1  
PLOT SCALE = 100.0000' / 1" = 100'  
PLOT DATE = 10/16/2012

DESIGNED - DBS  
DRAWN - PSBA  
CHECKED - CSB  
DATE - 10/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING  
RAMP C

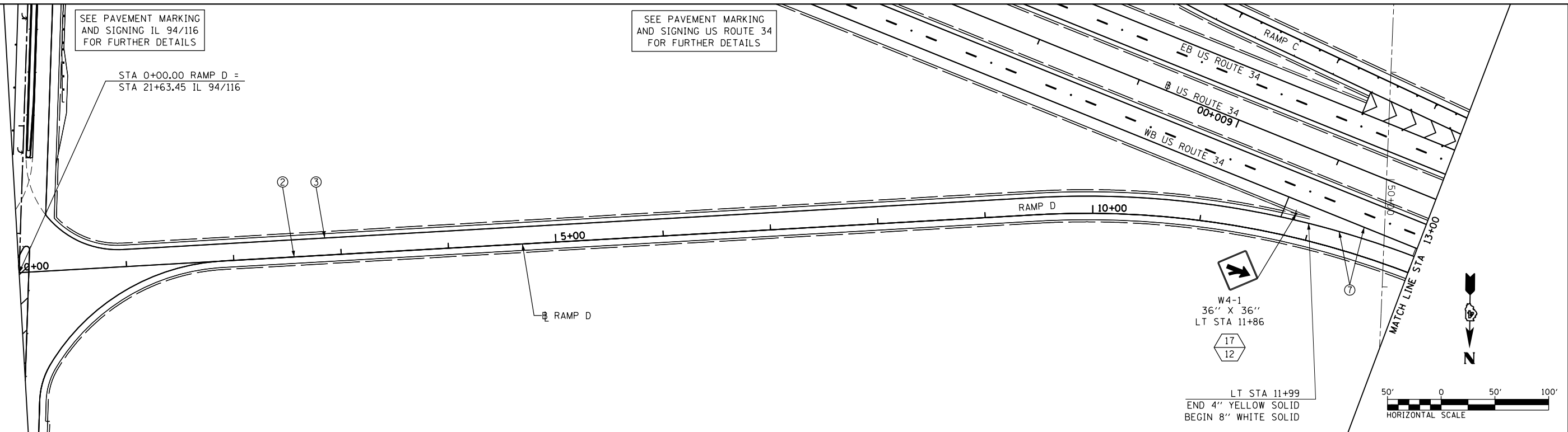
SCALE: 1" = 50' SHEET NO. 16 OF 24 SHEETS STA. 0+00 TO STA. 22+21.40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	404
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

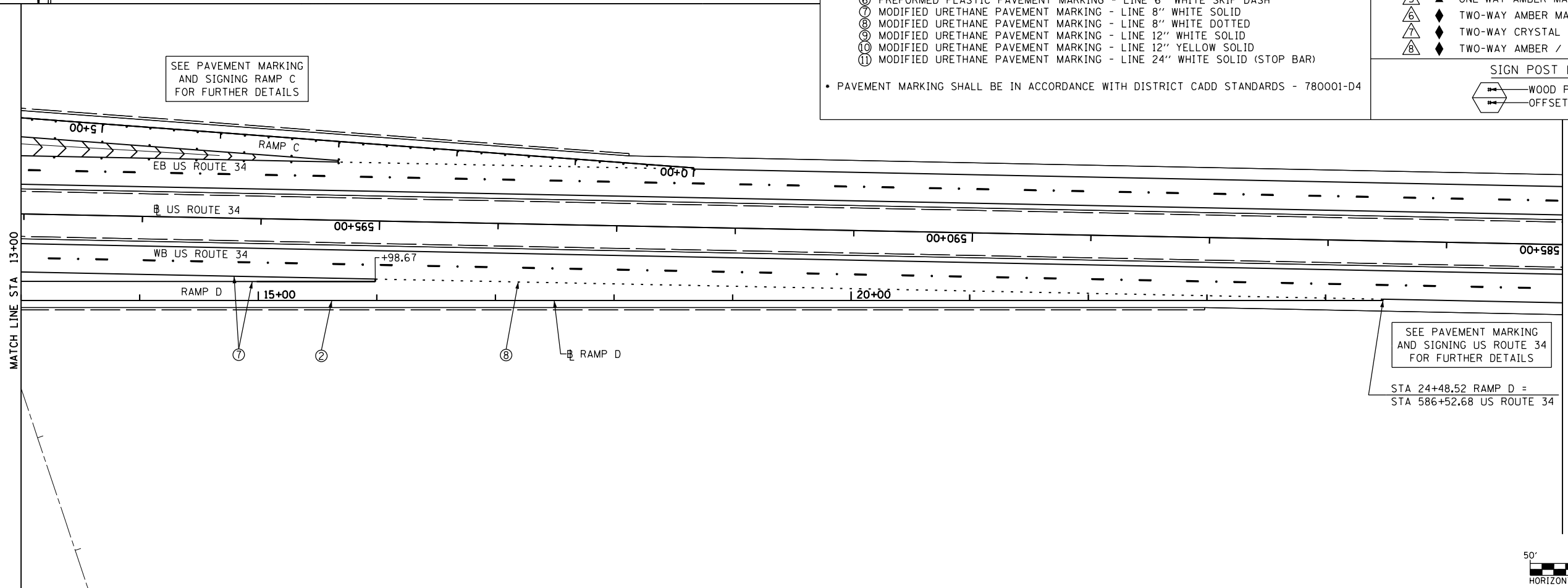
SEE PAVEMENT MARKING AND SIGNING IL 94/116 FOR FURTHER DETAILS

SEE PAVEMENT MARKING AND SIGNING US ROUTE 34 FOR FURTHER DETAILS

STA 0+00.00 RAMP D =  
STA 21+63.45 IL 94/116



SEE PAVEMENT MARKING AND SIGNING RAMP C FOR FURTHER DETAILS



SEE PAVEMENT MARKING AND SIGNING US ROUTE 34 FOR FURTHER DETAILS

STA 24+48.52 RAMP D =  
STA 586+52.68 US ROUTE 34

PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS	△	ONE-WAY CRYSTAL MARKER AT 80' CENTERS
②	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID	△	ONE-WAY CRYSTAL MARKER AT 40' CENTERS
③	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID	△	ONE-WAY CRYSTAL MARKER AT 20' CENTERS
④	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)	▲	ONE-WAY AMBER MARKER AT 40' CENTERS
⑤	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH	▲	ONE-WAY AMBER MARKER AT 20' CENTERS
⑥	PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH	◆	TWO-WAY AMBER MARKER
⑦	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID	◆	TWO-WAY CRYSTAL / RED MARKER
⑧	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED	◆	TWO-WAY AMBER / RED MARKER
⑨	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID		
⑩	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID		
⑪	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)		

• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

SIGN POST LEGEND	
⬇	WOOD POST LENGTH
⬇	OFFSET FROM EOP

FILE NAME = D468409-SHT-17-PMK-RAMP-D-01.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING  
RAMP D

SCALE: 1" = 50' SHEET NO. 17 OF 24 SHEETS STA. 0+00 TO STA. 24+48.52

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	405
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

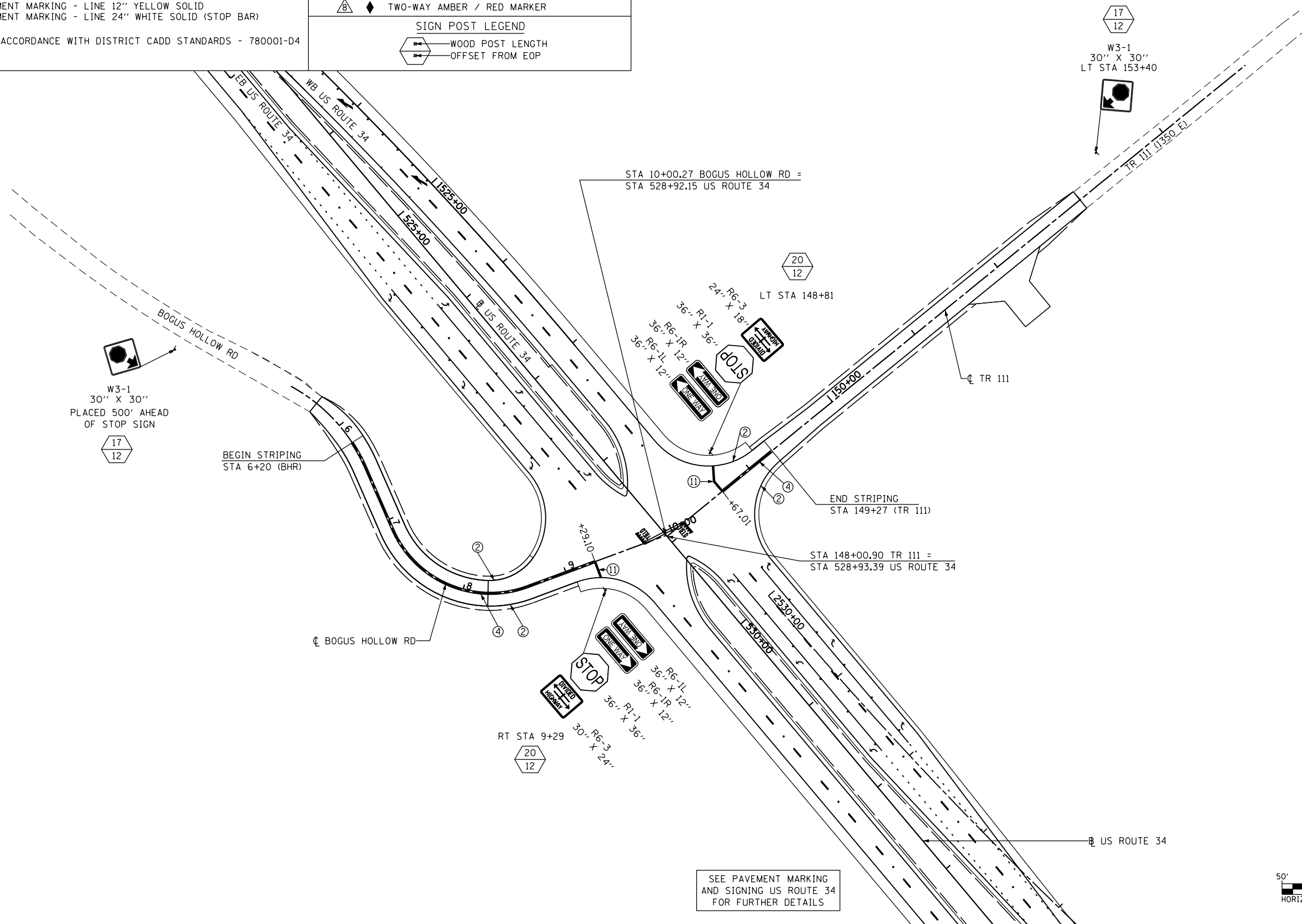
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND

- △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ◆ TWO-WAY AMBER MARKER
- ◆ TWO-WAY CRYSTAL / RED MARKER
- ◆ TWO-WAY AMBER / RED MARKER

SIGN POST LEGEND

- WOOD POST LENGTH
- OFFSET FROM EOP



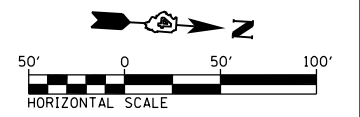
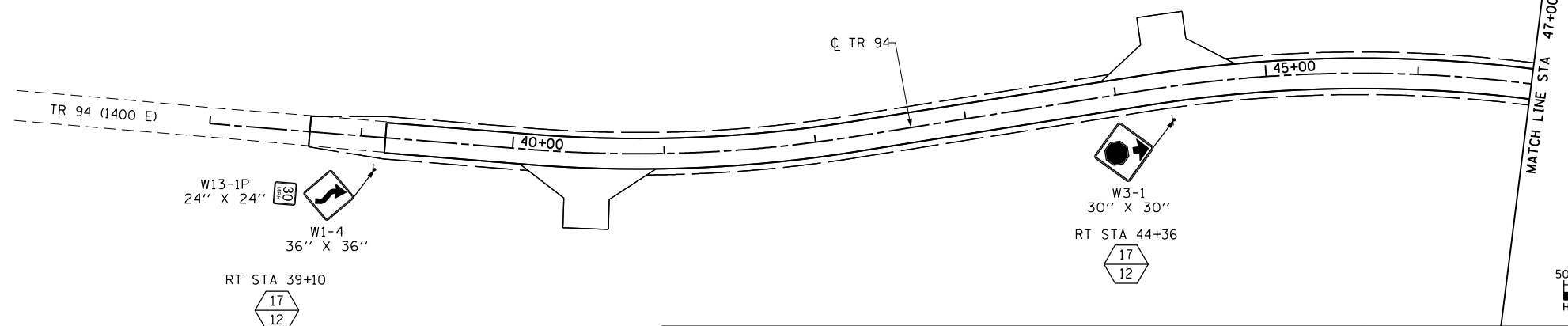
SEE PAVEMENT MARKING AND SIGNING US ROUTE 34 FOR FURTHER DETAILS

FILE NAME =	USER NAME = zech1	DESIGNED - DBS	REVISED -
D468409-SHT-18-PMK-BOGUS HOLLOW-TR111-0.dgn		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING AND SIGNING</b>	
<b>BOGUS HOLLOW ROAD &amp; TR 111 (1350 E)</b>	
SCALE: 1" = 50'	SHEET NO. 18 OF 24 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	406
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

**RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND**

- ① △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- ② △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- ③ △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ④ ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ⑤ ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ⑥ ◆ TWO-WAY AMBER MARKER
- ⑦ ◆ TWO-WAY CRYSTAL / RED MARKER
- ⑧ ◆ TWO-WAY AMBER / RED MARKER

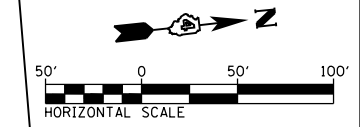
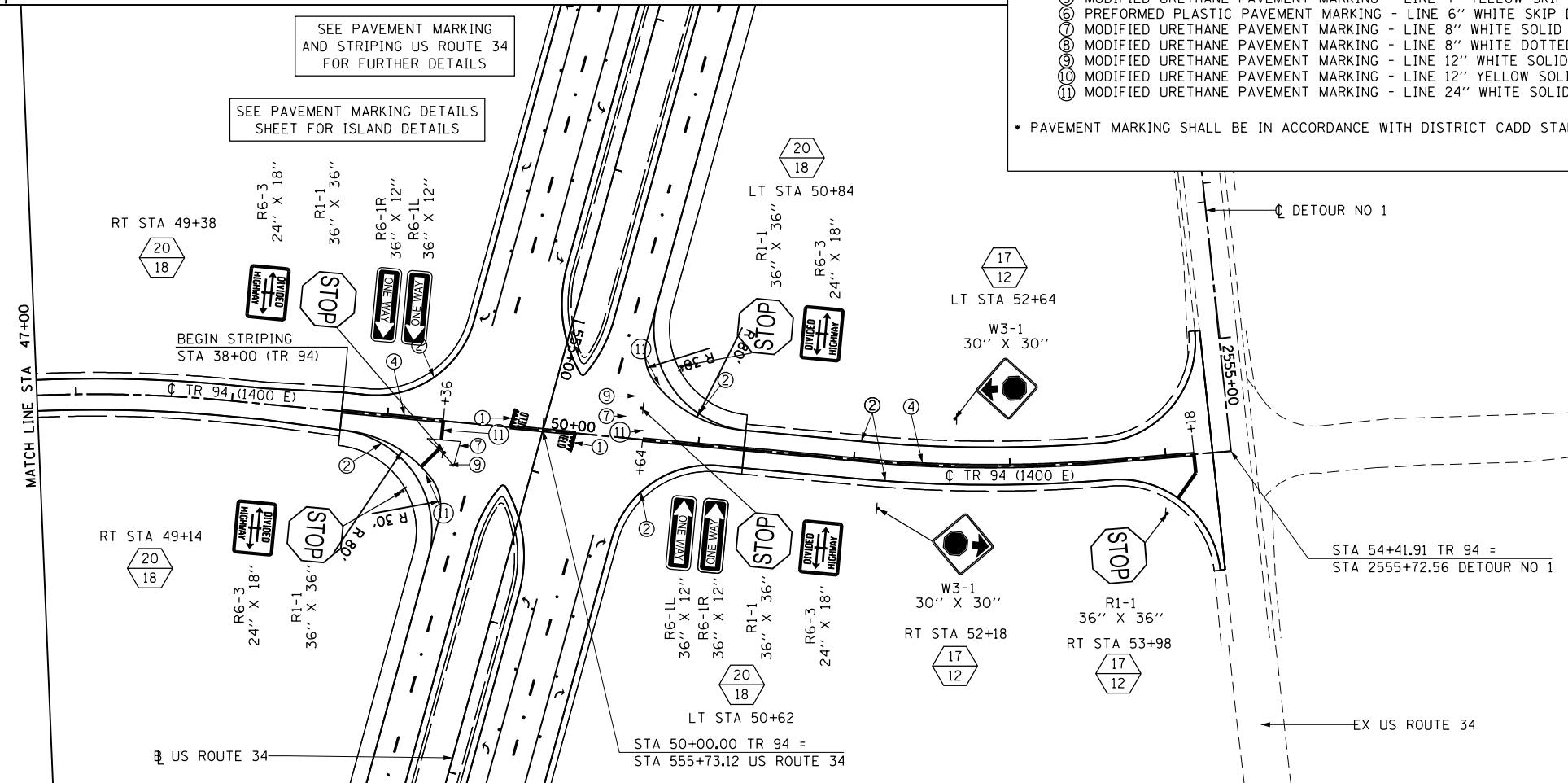
**SIGN POST LEGEND**

◆ WOOD POST LENGTH

◆ OFFSET FROM EOP

SEE PAVEMENT MARKING AND STRIPING US ROUTE 34 FOR FURTHER DETAILS

SEE PAVEMENT MARKING DETAILS SHEET FOR ISLAND DETAILS



FILE NAME = D468409-SHT-19-PMK-TR94-01.dgn

USER NAME = zach1  
 DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

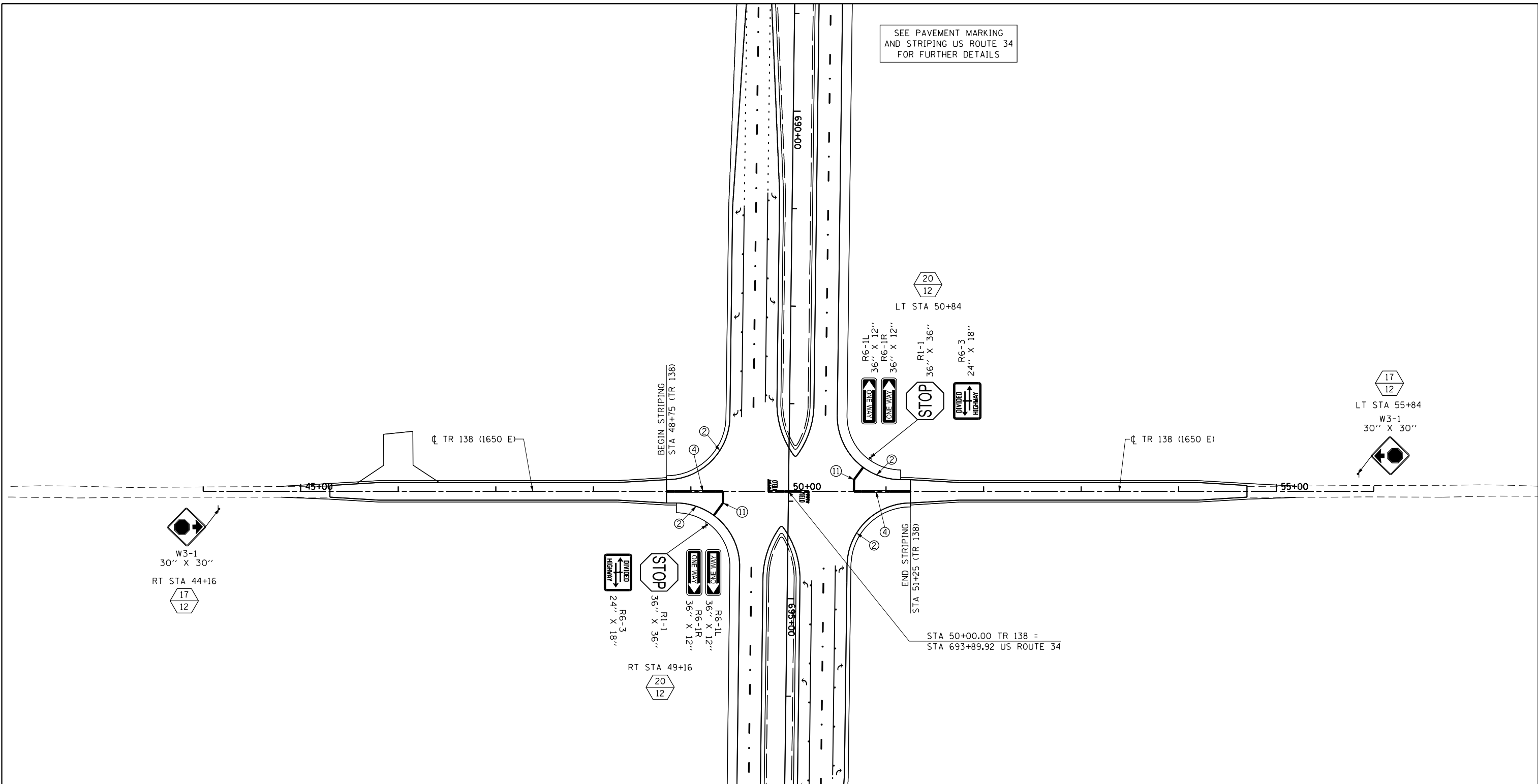
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING  
 TR 94 (1400 E)**

SCALE: 1" = 50' SHEET NO. 19 OF 24 SHEETS STA. 38+00 TO STA. 54+41.91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	407
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

SEE PAVEMENT MARKING AND STRIPING US ROUTE 34 FOR FURTHER DETAILS



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

**RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND**

- △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ◆ TWO-WAY AMBER MARKER
- ◆ TWO-WAY CRYSTAL / RED MARKER
- ◆ TWO-WAY AMBER / RED MARKER

**SIGN POST LEGEND**

- WOOD POST LENGTH
- OFFSET FROM EOP

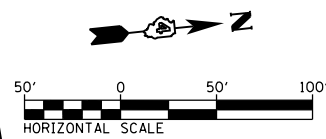
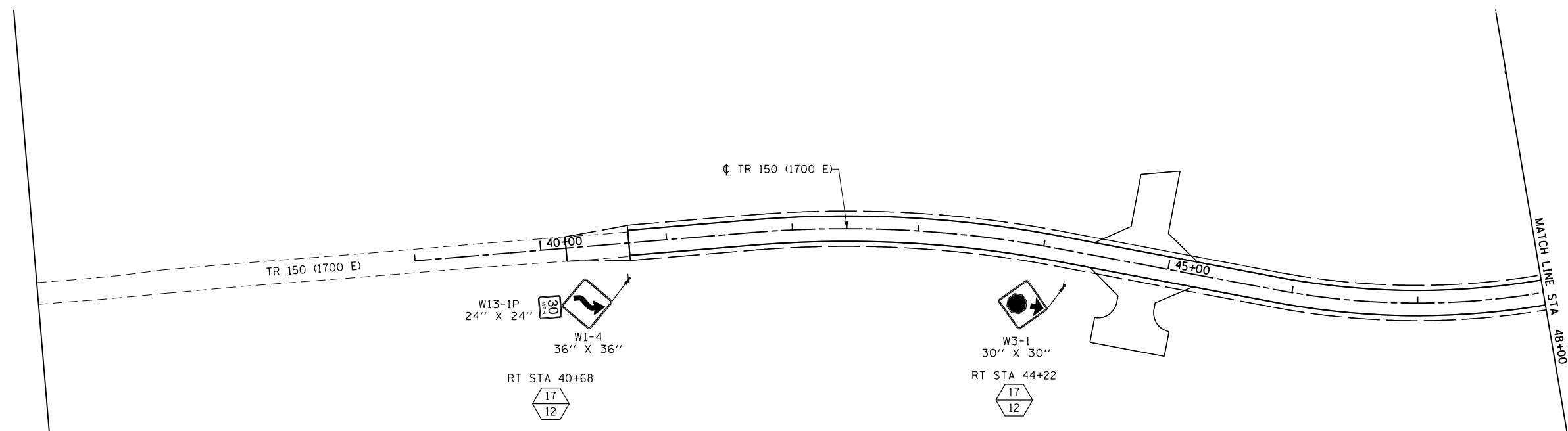
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING  
TR 138 (1650 E)**

SCALE: 1" = 50' SHEET NO. 20 OF 24 SHEETS STA. 44+00 TO STA. 56+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	408
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				





**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

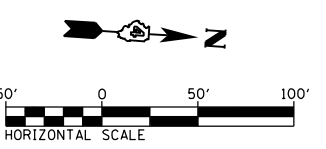
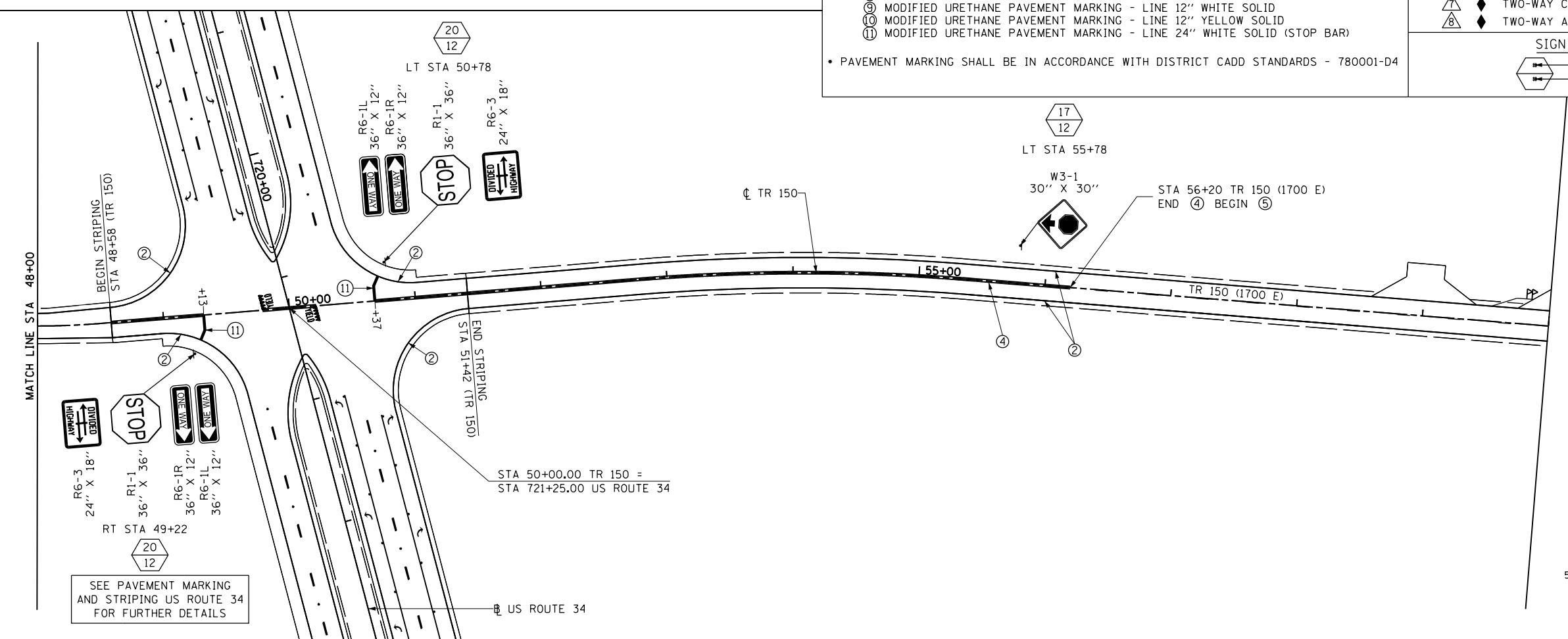
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

**RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND**

△	△ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
△	△ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
△	△ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
▲	▲ ONE-WAY AMBER MARKER AT 40' CENTERS
▲	▲ ONE-WAY AMBER MARKER AT 20' CENTERS
◆	◆ TWO-WAY AMBER MARKER
◆	◆ TWO-WAY CRYSTAL / RED MARKER
◆	◆ TWO-WAY AMBER / RED MARKER

**SIGN POST LEGEND**

⊞	⊞ WOOD POST LENGTH
⊞	⊞ OFFSET FROM EOP



FILE NAME = D468409-SHT-21-PMK-TR150-01.dgn

USER NAME = zachl  
 DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

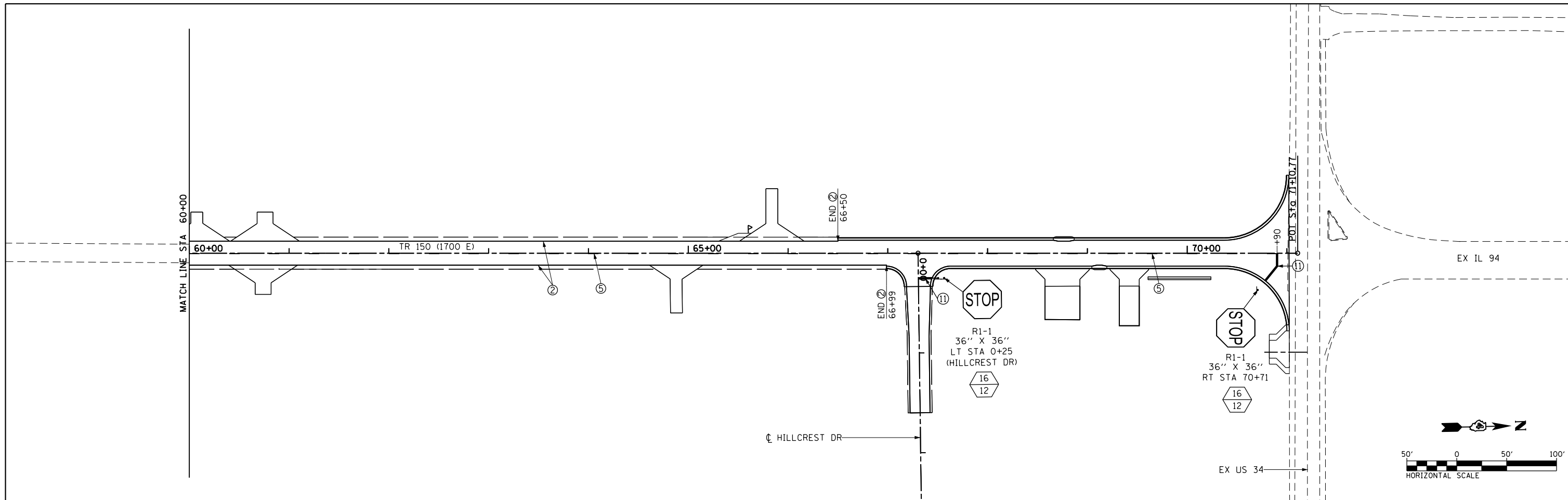
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING  
 TR 150 (1700 E)**

SCALE: 1" = 50'    SHEET NO. 21 OF 24 SHEETS    STA. 39+00    TO STA. 60+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	409
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND		RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS	△	ONE-WAY CRYSTAL MARKER AT 80' CENTERS
②	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID	△	ONE-WAY CRYSTAL MARKER AT 40' CENTERS
③	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID	△	ONE-WAY CRYSTAL MARKER AT 20' CENTERS
④	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)	▲	ONE-WAY AMBER MARKER AT 40' CENTERS
⑤	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH	▲	ONE-WAY AMBER MARKER AT 20' CENTERS
⑥	PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH	◆	TWO-WAY AMBER MARKER
⑦	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID	◆	TWO-WAY CRYSTAL / RED MARKER
⑧	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED	◆	TWO-WAY AMBER / RED MARKER
⑨	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID		
⑩	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID		
⑪	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)		
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4		SIGN POST LEGEND	
		◆	WOOD POST LENGTH
		◆	OFFSET FROM EOP

PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

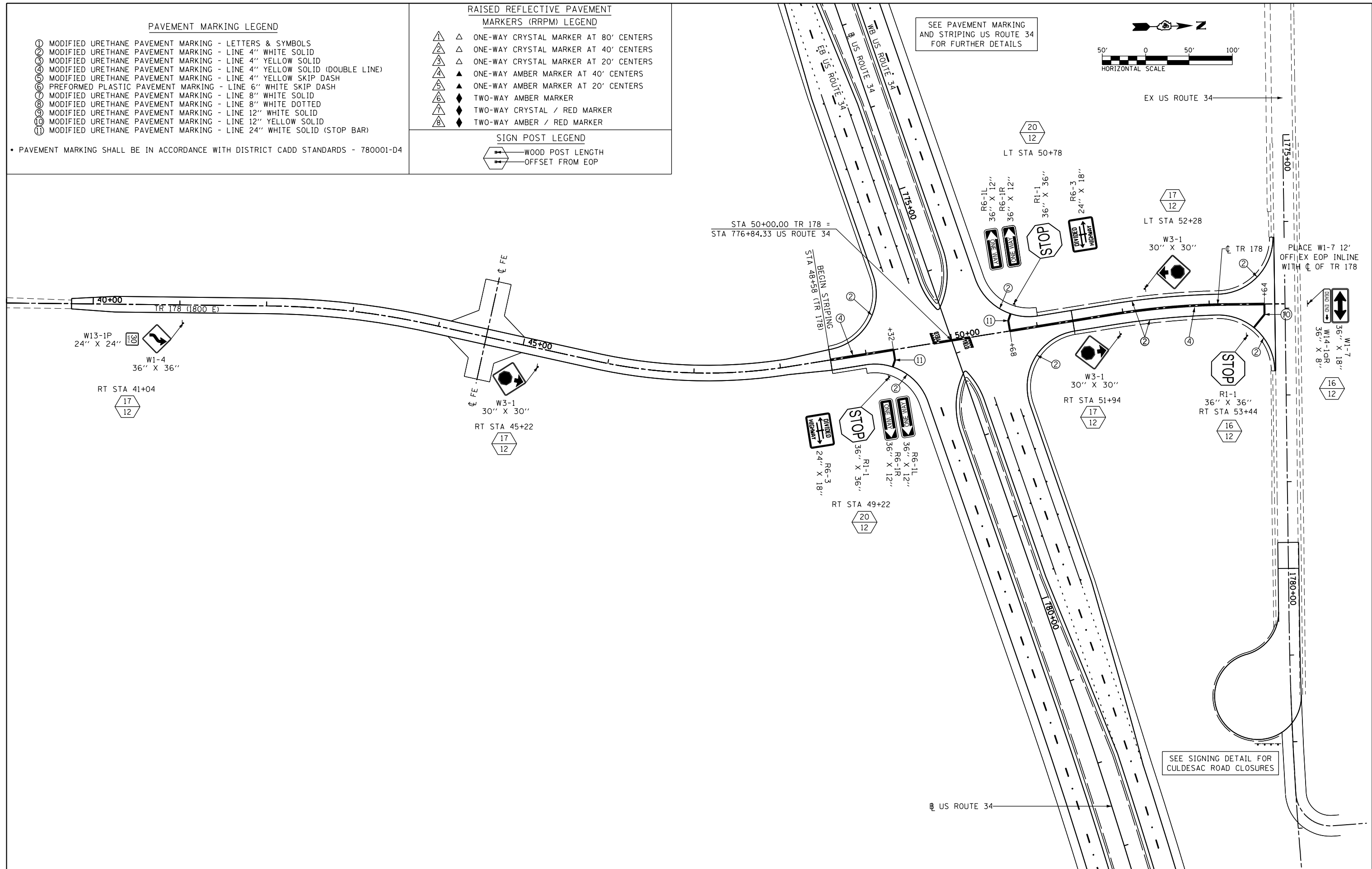
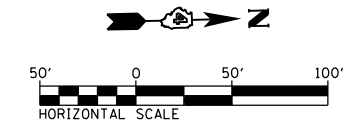
RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND

- △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ◆ TWO-WAY AMBER MARKER
- ◆ TWO-WAY CRYSTAL / RED MARKER
- ◆ TWO-WAY AMBER / RED MARKER

SIGN POST LEGEND

- WOOD POST LENGTH
- OFFSET FROM EOP

SEE PAVEMENT MARKING AND STRIPING US ROUTE 34 FOR FURTHER DETAILS



FILE NAME = D468409-SHT-23-PMK-TR178-01.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING  
TR 178 (1800 E)**

SCALE: 1" = 50'    SHEET NO. 23 OF 24 SHEETS    STA. 39+00    TO STA. 53+86.60

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 411
CONTRACT NO. 68409				ILLINOIS FED. AID PROJECT

SEE PAVEMENT MARKING AND STRIPING US ROUTE 34 FOR FURTHER DETAILS

PAVEMENT MARKING LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SOLID (DOUBLE LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE SOLID
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE DOTTED
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE SOLID
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" YELLOW SOLID
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE SOLID (STOP BAR)

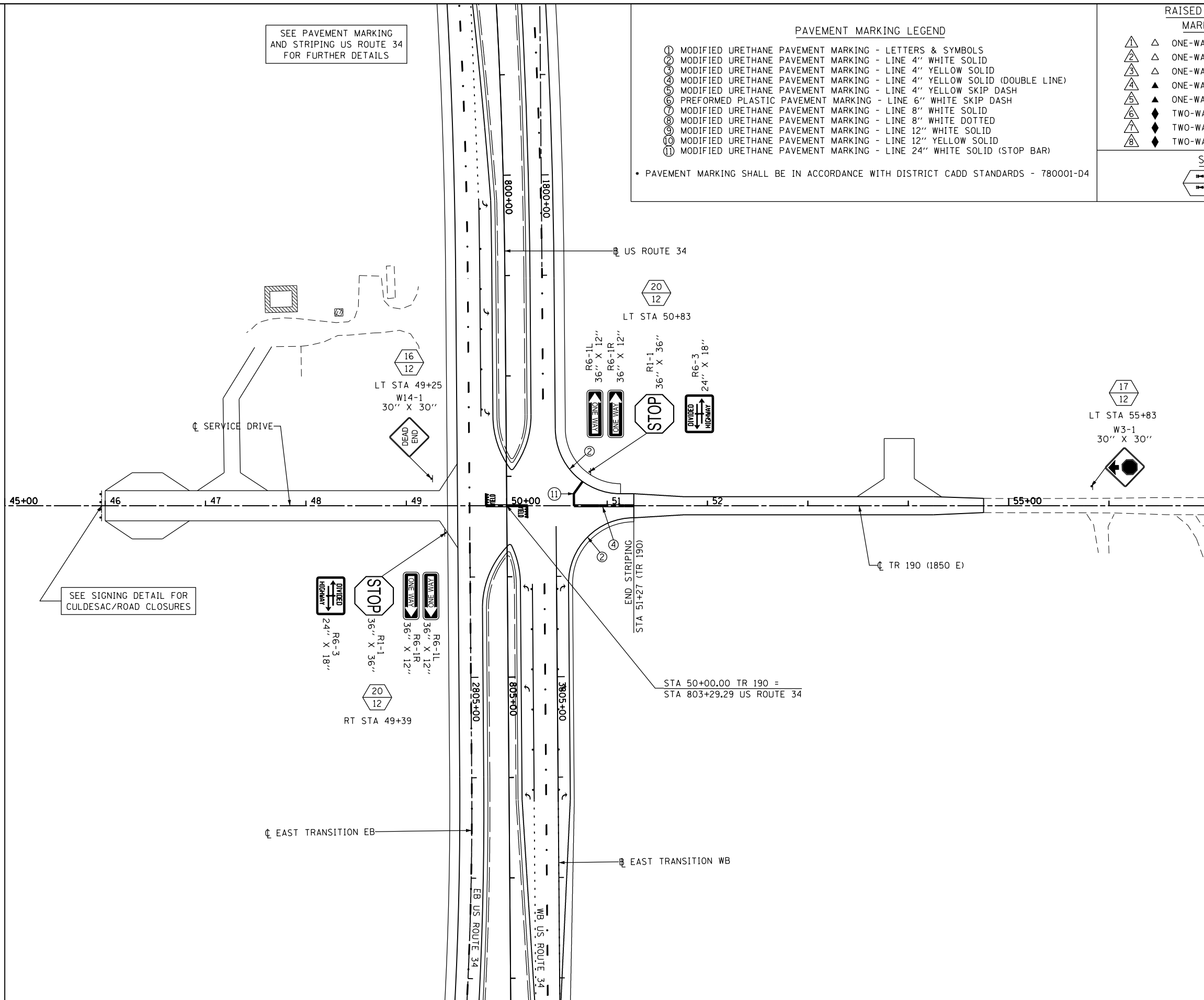
• PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT CADD STANDARDS - 780001-D4

RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) LEGEND

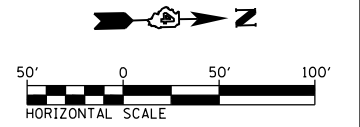
- ① △ ONE-WAY CRYSTAL MARKER AT 80' CENTERS
- ② △ ONE-WAY CRYSTAL MARKER AT 40' CENTERS
- ③ △ ONE-WAY CRYSTAL MARKER AT 20' CENTERS
- ④ ▲ ONE-WAY AMBER MARKER AT 40' CENTERS
- ⑤ ▲ ONE-WAY AMBER MARKER AT 20' CENTERS
- ⑥ ◆ TWO-WAY AMBER MARKER
- ⑦ ◆ TWO-WAY CRYSTAL / RED MARKER
- ⑧ ◆ TWO-WAY AMBER / RED MARKER

SIGN POST LEGEND

- WOOD POST LENGTH
- OFFSET FROM EOP



SEE SIGNING DETAIL FOR CULDESAC/ROAD CLOSURES



FILE NAME = D468409-SHT-24-PMK-TR190-01.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - DBB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -

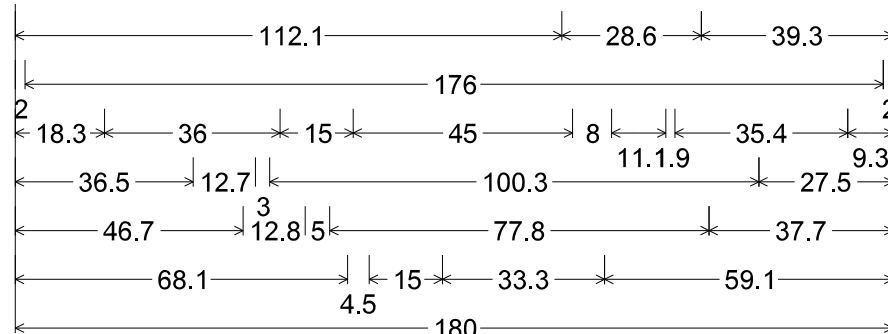
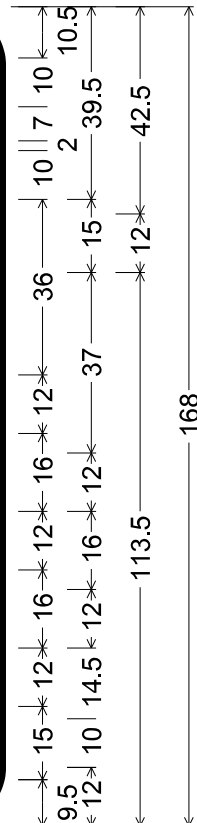
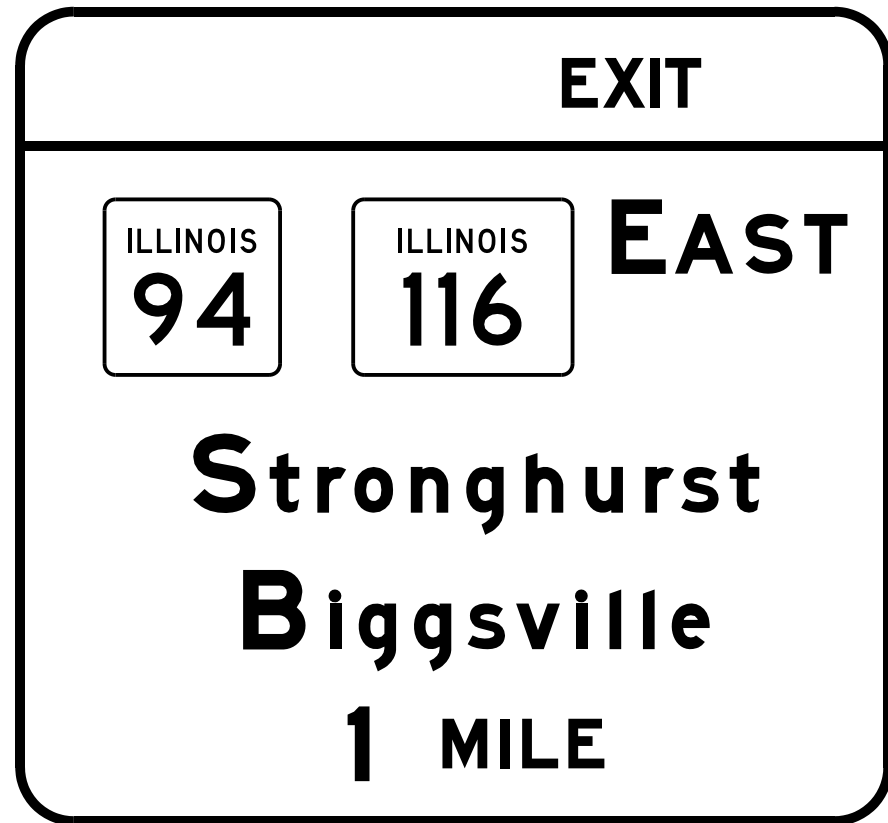
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING  
TR 190 (1850 E)

SCALE: 1" = 50' SHEET NO. 24 OF 24 SHEETS STA. 45+00 TO STA. 57+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 412
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

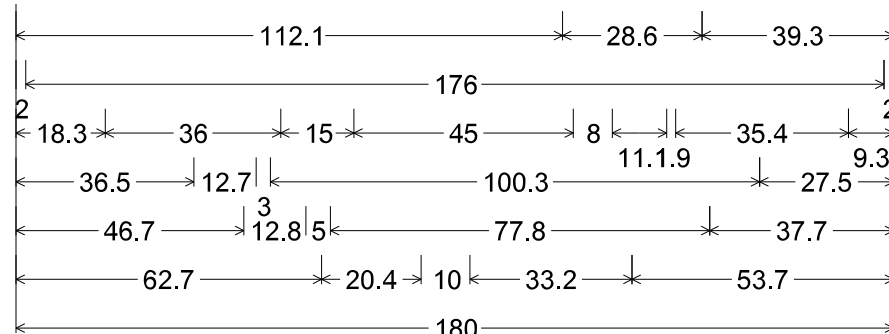
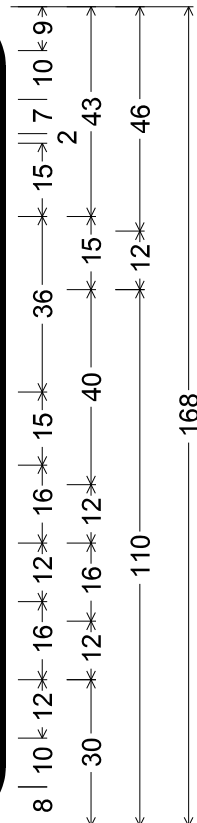
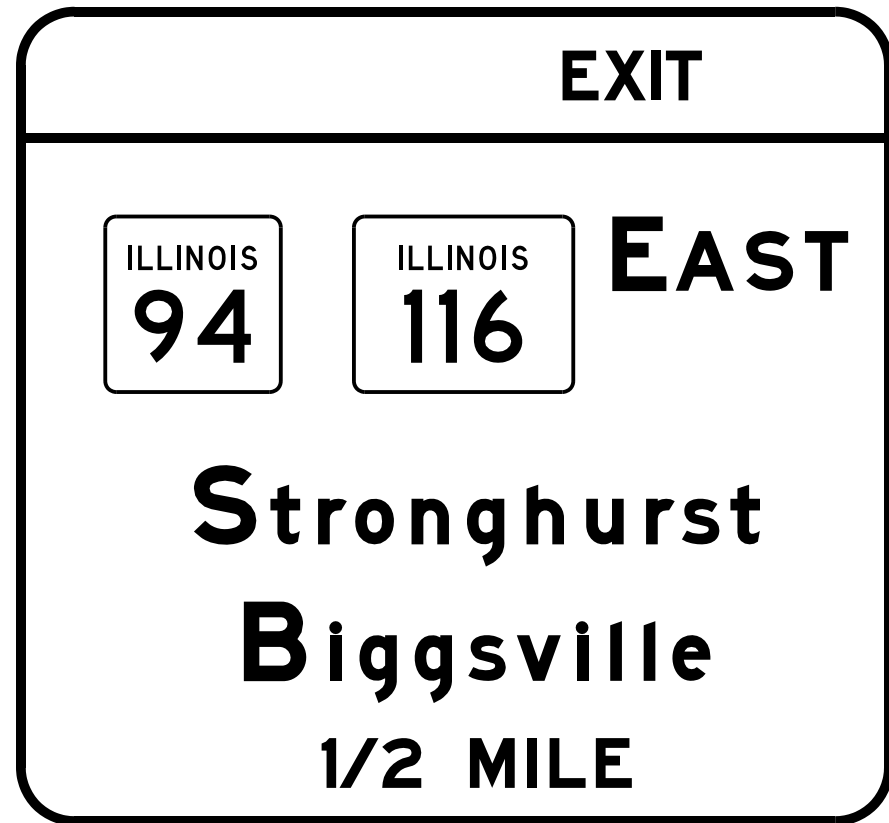
SIGN # 001: STATION 524+56 (US 34)



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; [1 MILE] E Mod;  
 Table of widths and spaces.

112.1	E	7.4	1.0	X	8.7	1.1	I	2.0	1.0	T	7.4	39.3																				
2.0	176.0		2.0																													
18.3	36.0	15.0	45.0	8.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	9.3																
36.5	S	12.7	3.0	t	6.0	3.7	r	5.9	1.8	o	7.8	3.7	7.7	3.6	g	7.7	4.6	h	7.6	4.7	u	7.6	4.6	r	5.9	1.5	s	7.6	2.3	t	6.0	27.5
46.7	B	12.8	5.0	I	2.2	3.7	g	7.7	3.6	g	7.7	3.3	s	7.6	2.4	v	8.9	3.4	l	2.3	4.6	l	2.2	4.6	l	2.3	3.6	e	7.7	37.7		
68.1	l	4.5	15.0	M	9.2	2.6	I	2.0	2.5	L	7.5	2.0	E	7.5	59.1																	

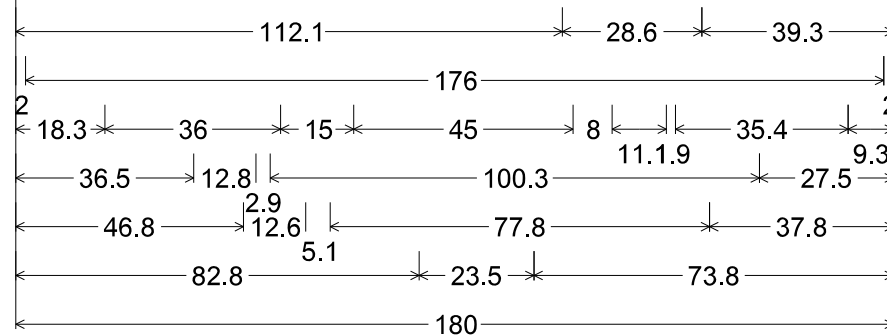
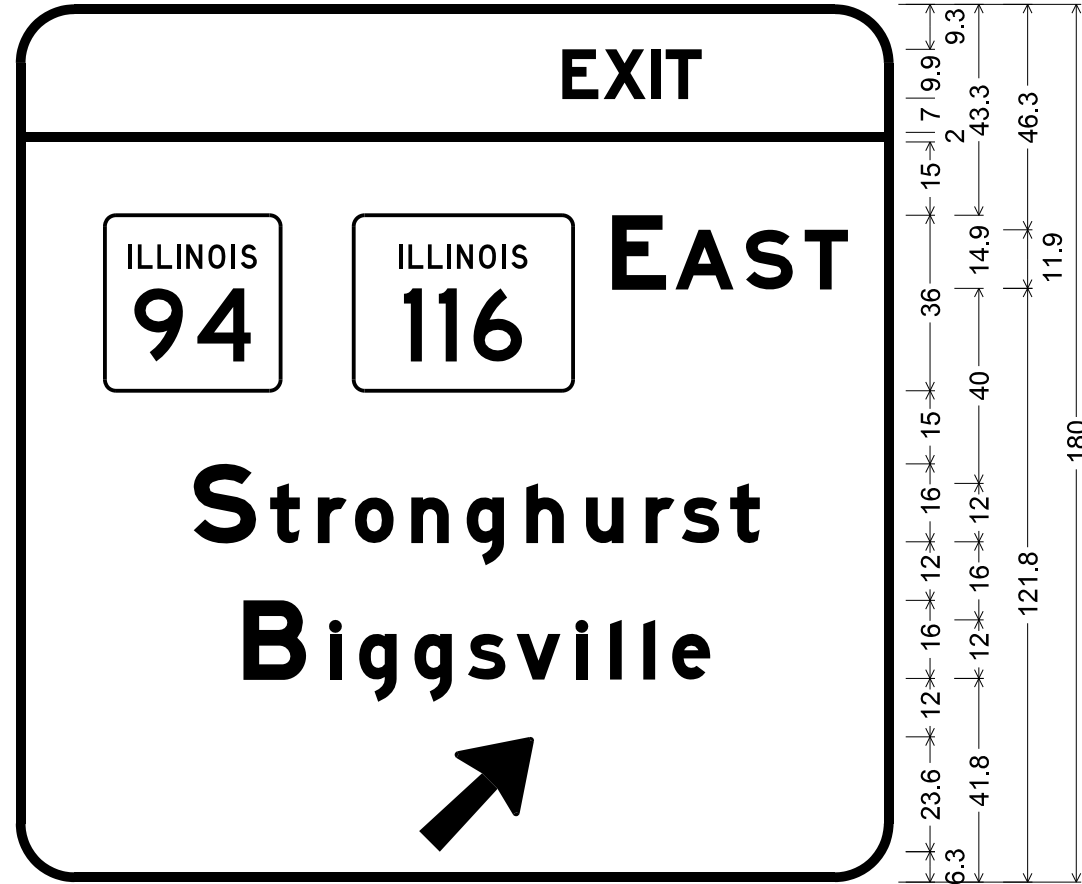
SIGN # 002: STA 550+96 (US 34)



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; [1/2 MILE] E Mod;  
 Table of widths and spaces.

112.1	E	7.4	1.0	X	8.7	1.1	I	2.0	1.0	T	7.4	39.3																				
2.0	176.0		2.0																													
18.3	36.0	15.0	45.0	8.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	9.3																
36.5	S	12.7	3.0	t	6.0	3.7	r	5.9	1.8	o	7.8	3.7	7.7	3.6	g	7.7	4.6	h	7.6	4.7	u	7.6	4.6	r	5.9	1.5	s	7.6	2.3	t	6.0	27.5
46.7	B	12.8	5.0	I	2.2	3.7	g	7.7	3.6	g	7.7	3.3	s	7.6	2.4	v	8.9	3.4	l	2.3	4.6	l	2.2	4.6	l	2.3	3.6	e	7.7	37.7		
62.7	l	2.9	0.7	/	8.1	0.7	2	8.0	10.0	M	9.2	2.6	I	2.0	2.5	L	7.4	2.1	E	7.4	53.7											

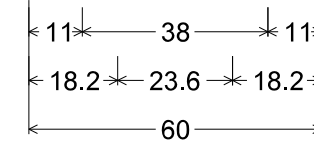
SIGN # 003: STATION 592+36 (US 34)



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; Arrow 133 - 30.0" 45°;  
 Table of widths and spaces.

112.1	<b>E</b>		<b>X</b>		<b>I</b>		<b>T</b>	39.3														
	7.4	1.0	8.8	1.0	2.0	1.0	7.4															
2.0	176.0	2.0																				
18.3	■	15.0	■	8.0	<b>E</b>	1.9	<b>A</b>	2.5	<b>S</b>	2.5	<b>T</b>	8.9	9.3									
	36.0		45.0		11.1		12.0		9.5		8.9											
36.5	<b>S</b>		<b>t</b>		<b>r</b>		<b>o</b>		<b>n</b>		<b>g</b>		<b>h</b>		<b>u</b>		<b>r</b>		<b>s</b>		<b>t</b>	
	12.8	2.9	6.0	3.8	5.8	1.8	7.9	3.6	7.6	3.8	7.6	4.6	7.6	4.6	7.8	4.5	5.9	1.5	7.5	2.4	6.0	27.5
46.8	<b>B</b>		<b>I</b>		<b>g</b>		<b>g</b>		<b>s</b>		<b>v</b>		<b>I</b>		<b>I</b>		<b>e</b>					
	12.6	5.1	2.3	3.6	7.6	3.8	7.6	3.4	7.5	2.4	9.0	3.3	2.3	4.5	2.3	4.6	2.3	3.6	7.8	37.6		
82.8	↗	73.8																				

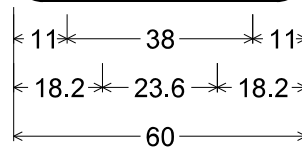
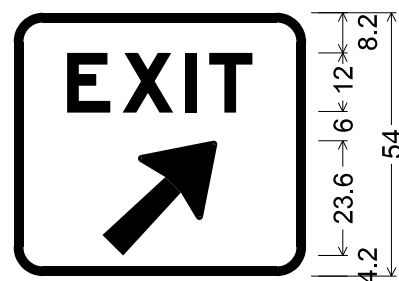
SIGN # 004: STATION 599+52 (US 34)



6.0" Radius, 2.0" Border, White on Green;  
 [EXIT] E Mod;  
 Arrow 133 - 30.0" 45°;  
 Table of widths and spaces.

11.0	<b>E</b>		<b>X</b>		<b>I</b>		<b>T</b>	11.0
	8.9	2.5	10.4	2.4	2.4	2.5	8.9	
18.2	↗	18.2						

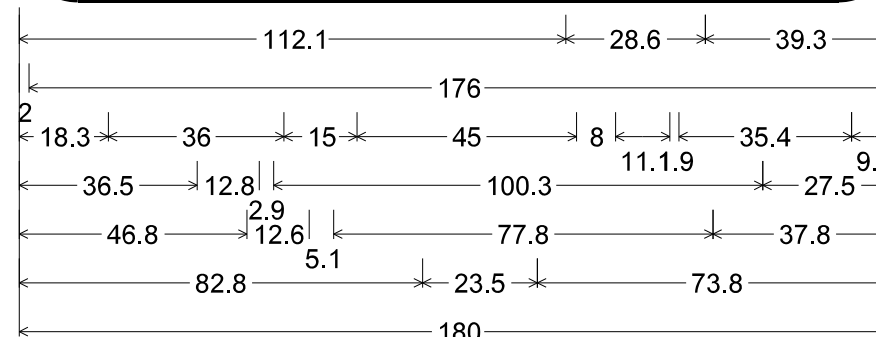
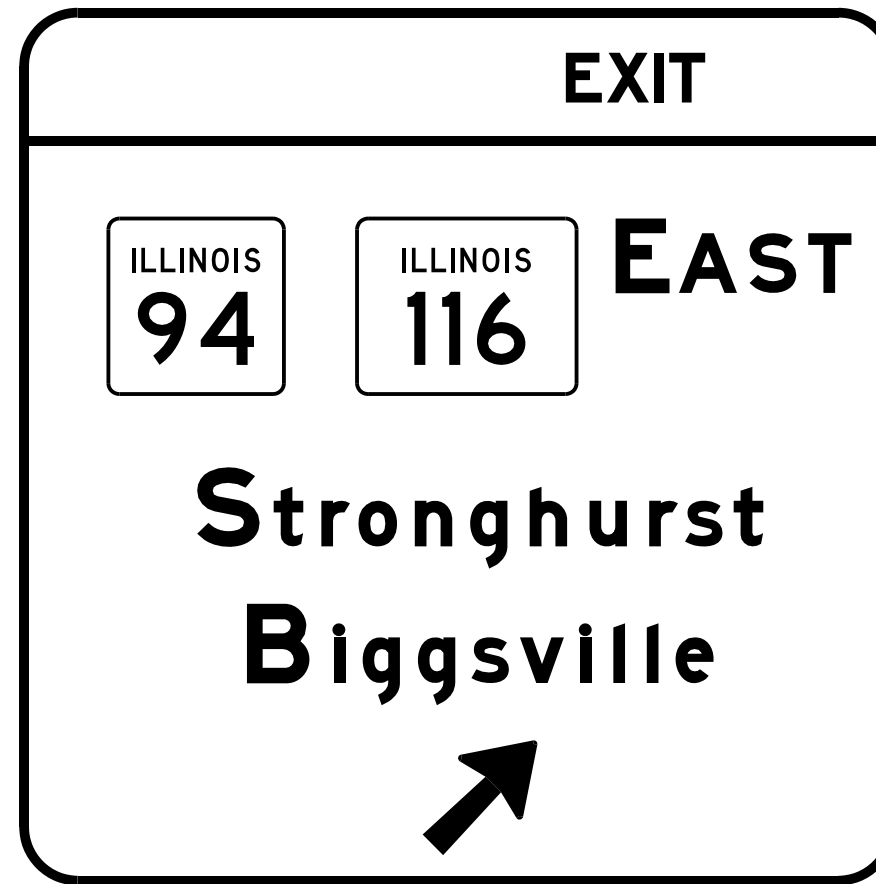
SIGN # 005: STATION 625+36 (US 34)



6.0" Radius, 2.0" Border, White on Green;  
 [EXIT] E Mod;  
 Arrow 133 - 30.0" 45°;  
 Table of widths and spaces.

	<b>E</b>		<b>X</b>		<b>I</b>		<b>T</b>	
11.0	8.9	2.5	10.4	2.4	2.4	2.5	8.9	11.0
	<b>↑</b>							
18.2	23.6	18.2						

SIGN # 006: STATION 632+59 (US 34)



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; Arrow 133 - 30.0" 45°;  
 Table of widths and spaces.

	<b>E</b>		<b>X</b>		<b>I</b>		<b>T</b>	
112.1	7.4	1.0	8.8	1.0	2.0	1.0	7.4	39.3

2.0	176.0	2.0
-----	-------	-----

	<b>■</b>		<b>■</b>		<b>E</b>		<b>A</b>		<b>S</b>		<b>T</b>	
18.3	36.0	15.0	45.0	8.0	11.1	1.9	12.0	2.5	9.5	2.5	8.9	9.3

	<b>S</b>		<b>t</b>		<b>r</b>		<b>o</b>		<b>n</b>		<b>g</b>		<b>h</b>		<b>u</b>		<b>r</b>		<b>s</b>		<b>t</b>	
36.5	12.8	2.9	6.0	3.8	5.8	1.8	7.9	3.6	7.6	3.8	7.6	4.6	7.6	4.6	7.8	4.5	5.9	1.5	7.5	2.4	6.0	27.5

	<b>B</b>		<b>i</b>		<b>g</b>		<b>g</b>		<b>s</b>		<b>v</b>		<b>l</b>		<b>l</b>		<b>e</b>			
46.8	12.6	5.1	2.3	3.6	7.6	3.8	7.6	3.4	7.5	2.4	9.0	3.3	2.3	4.5	2.3	4.6	2.3	3.6	7.8	37.6

	<b>↑</b>	
82.8	23.5	73.8

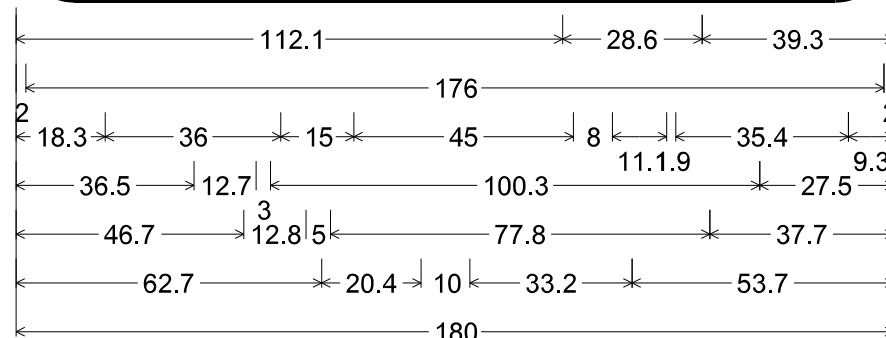
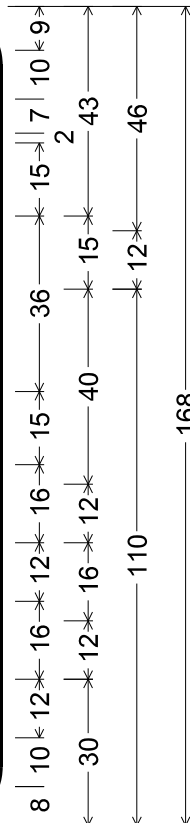
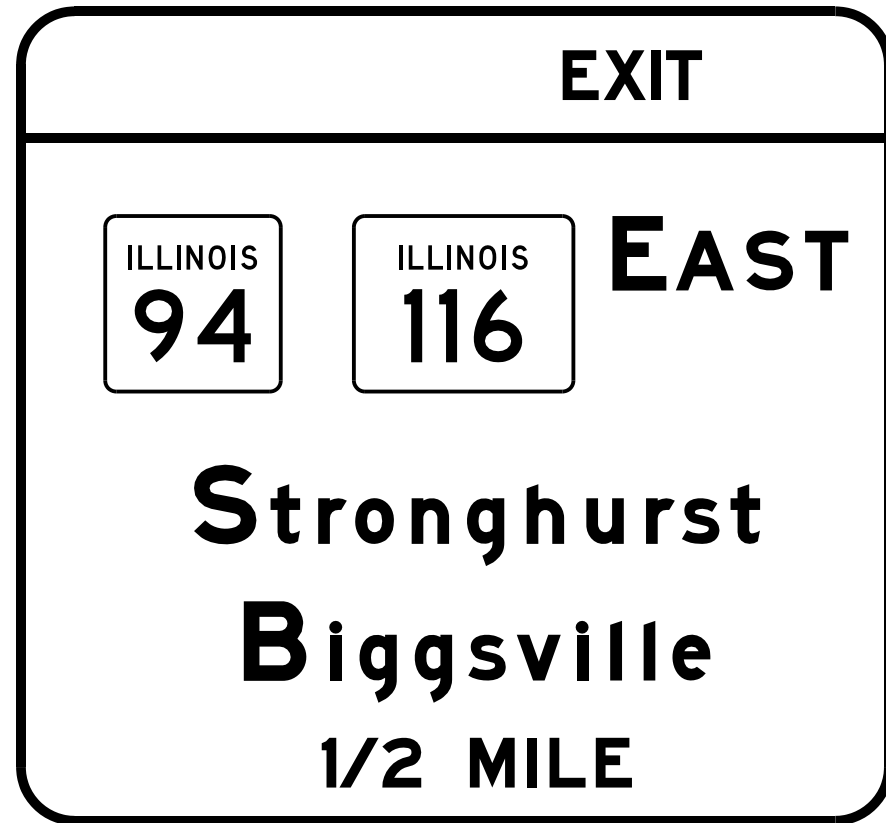
FILE NAME = D468409_SIGNING_DETAILS.dgn	USER NAME = notel	DESIGNED - DBS	REVISED - -
		DRAWN - PSBA	REVISED - -
		CHECKED - CSB	REVISED - -
		DATE - 10/2012	REVISED - -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS	
SCALE: N.A.	SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 313	SECTION 7-2; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 415
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

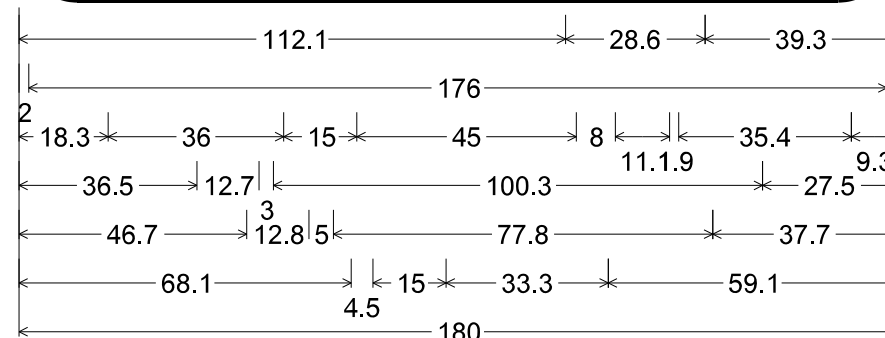
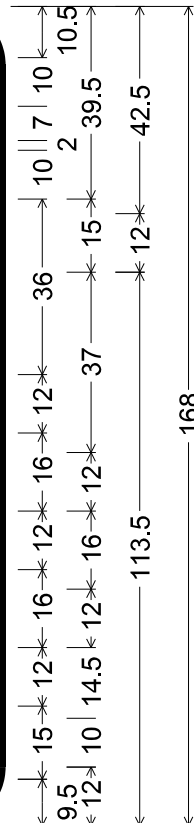
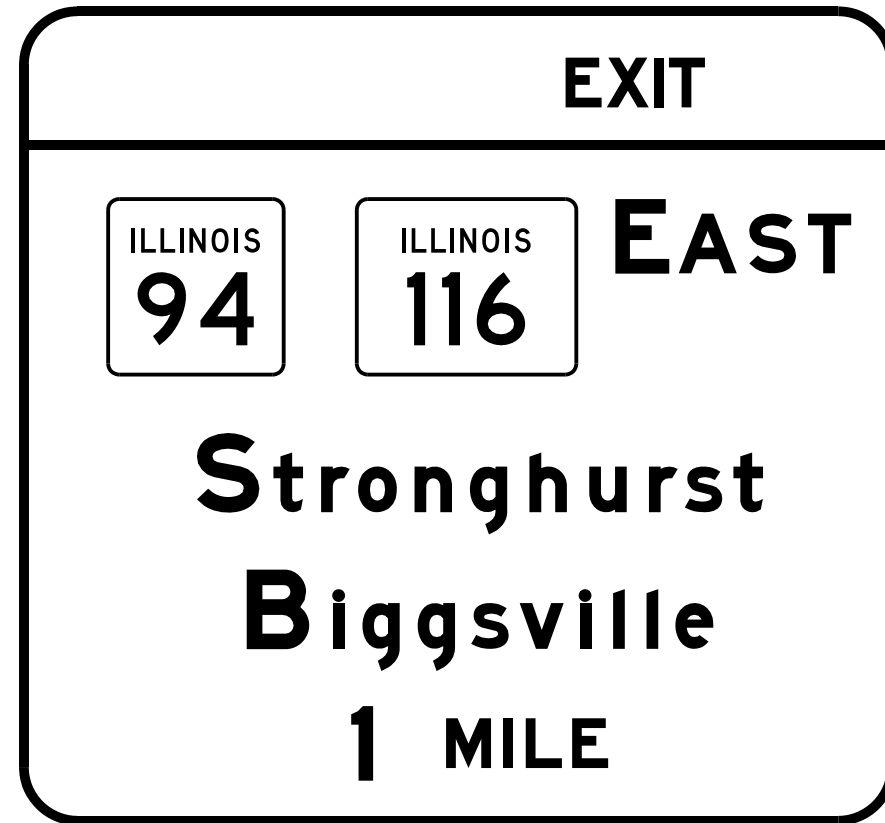
SIGN # 007: STATION 658+99 (US 34)



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; [1/2 MILE] E Mod;  
 Table of widths and spaces.

112.1	E	7.4	1.0	X	8.7	1.1	I	2.0	1.0	T	7.4	39.3																					
2.0	176.0											2.0																					
18.3	■	36.0	15.0	■	45.0	8.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	9.3															
36.5	S	12.7	3.0	t	6.0	3.7	r	5.9	1.8	o	7.8	3.7	n	7.7	3.6	g	7.7	4.6	h	7.6	4.7	u	7.6	4.6	r	5.9	1.5	s	7.6	2.3	t	6.0	27.5
46.7	B	12.8	5.0	i	2.2	3.7	g	7.7	3.6	g	7.7	3.3	s	7.6	2.4	v	8.9	3.4	i	2.3	4.6	l	2.2	4.6	l	2.3	3.6	e	7.7	37.7			
62.7	l	2.9	0.7	/	8.1	0.7	2	8.0	10.0	M	9.2	2.6	I	2.0	2.5	L	7.4	2.1	E	7.4	53.7												

SIGN # 008: STATION 685+39 (US 34)

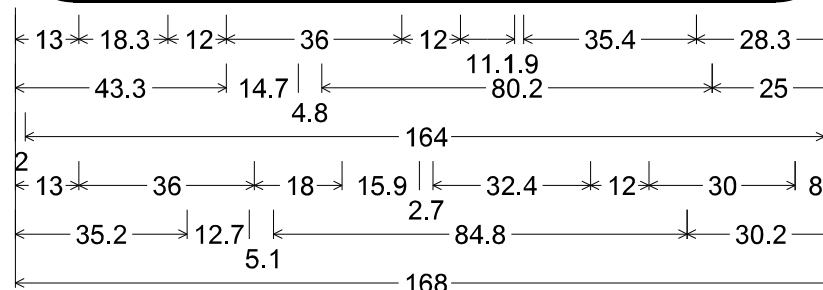
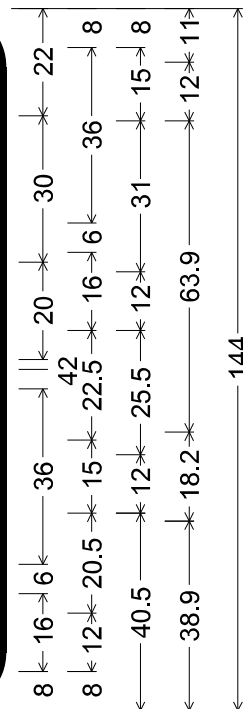
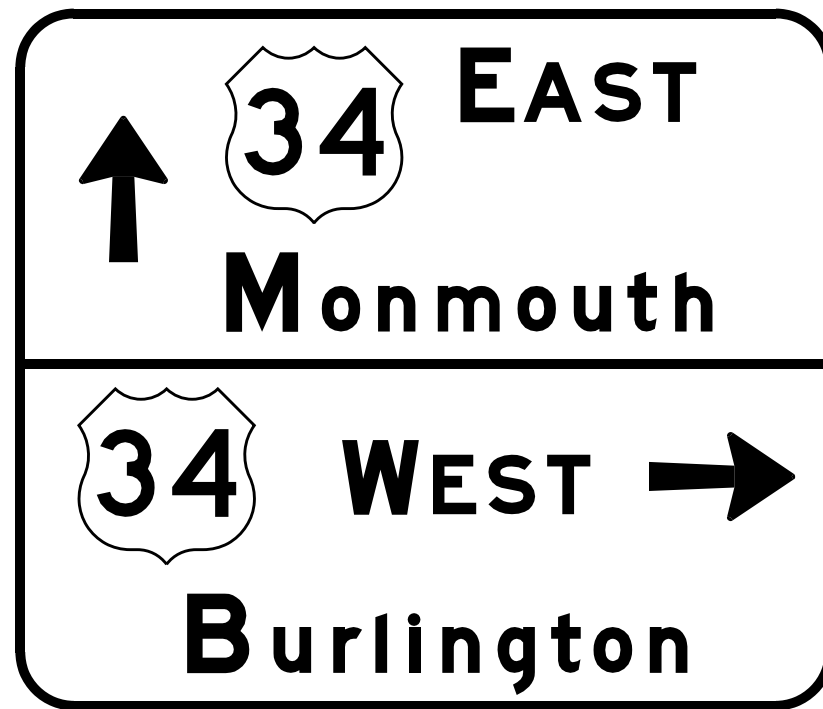


12.0" Radius, 2.0" Border, White on Green;  
 [EXIT ] E Mod 50% spacing; [EAST] E Mod;  
 [Stronghurst] E Mod; [Biggsville] E Mod; [1 MILE] E Mod;  
 Table of widths and spaces.

112.1	E	7.4	1.0	X	8.7	1.1	I	2.0	1.0	T	7.4	39.3																					
2.0	176.0											2.0																					
18.3	■	36.0	15.0	■	45.0	8.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	9.3															
36.5	S	12.7	3.0	t	6.0	3.7	r	5.9	1.8	o	7.8	3.7	n	7.7	3.6	g	7.7	4.6	h	7.6	4.7	u	7.6	4.6	r	5.9	1.5	s	7.6	2.3	t	6.0	27.5
46.7	B	12.8	5.0	i	2.2	3.7	g	7.7	3.6	g	7.7	3.3	s	7.6	2.4	v	8.9	3.4	i	2.3	4.6	l	2.2	4.6	l	2.3	3.6	e	7.7	37.7			
68.1	l	4.5	15.0	M	9.2	2.6	I	2.0	2.5	L	7.5	2.0	E	7.5	59.1																		



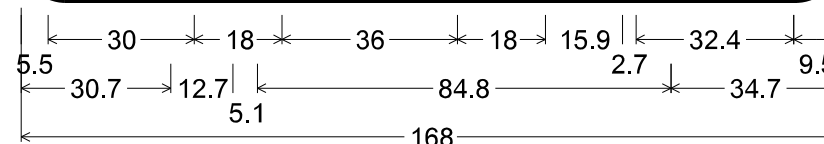
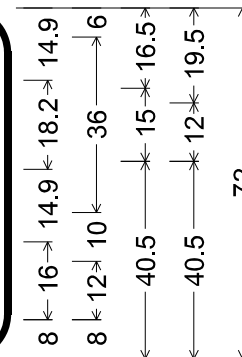
SIGN # 009: STATION 19+63 (IL 94/116)



12.0" Radius, 2.0" Border, White on Green;  
 Arrow 133 - 30.0" 90°; [EAST] E Mod; [Monmouth] E Mod;  
 [WEST] E Mod; Arrow 133 - 30.0" 0°; [Burlington] E Mod;  
 Table of widths and spaces.

13.0	↑	18.3	12.0	36.0	12.0	11.1	1.9	12.0	2.4	9.6	2.5	8.9	28.3								
43.3	M	14.7	4.8	7.9	3.7	7.6	4.6	12.7	3.7	7.9	3.6	7.7	3.3	6.0	3.8	7.7	25.0				
2.0		164.0	2.0																		
13.0	34	18.0	15.9	2.7	8.9	2.5	9.6	2.5	8.9	12.0	30.0	8.0									
35.2	B	12.7	5.1	7.6	4.6	5.9	2.8	2.2	4.6	2.3	4.6	7.6	3.7	7.6	3.4	6.0	2.7	7.9	3.7	7.6	30.2

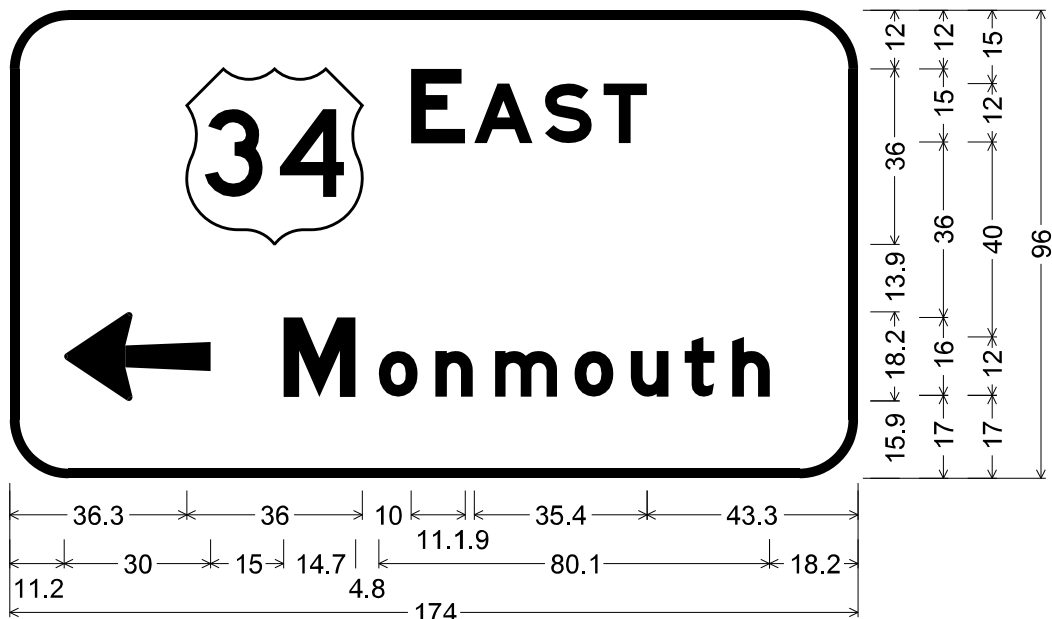
SIGN # 010: STATION 23+63 (IL 94/116)



9.0" Radius, 1.5" Border, White on Green;  
 Arrow 133 - 30.0" 180°; [WEST] E Mod; [Burlington] E Mod;  
 Table of widths and spaces.

5.5	←	30.0	18.0	36.0	18.0	15.9	2.7	8.9	2.5	9.6	2.5	8.9	9.5								
30.7	B	12.7	5.1	7.6	4.6	5.9	2.8	2.2	4.6	2.3	4.6	7.6	3.7	7.6	3.4	6.0	2.7	7.9	3.7	7.6	34.7

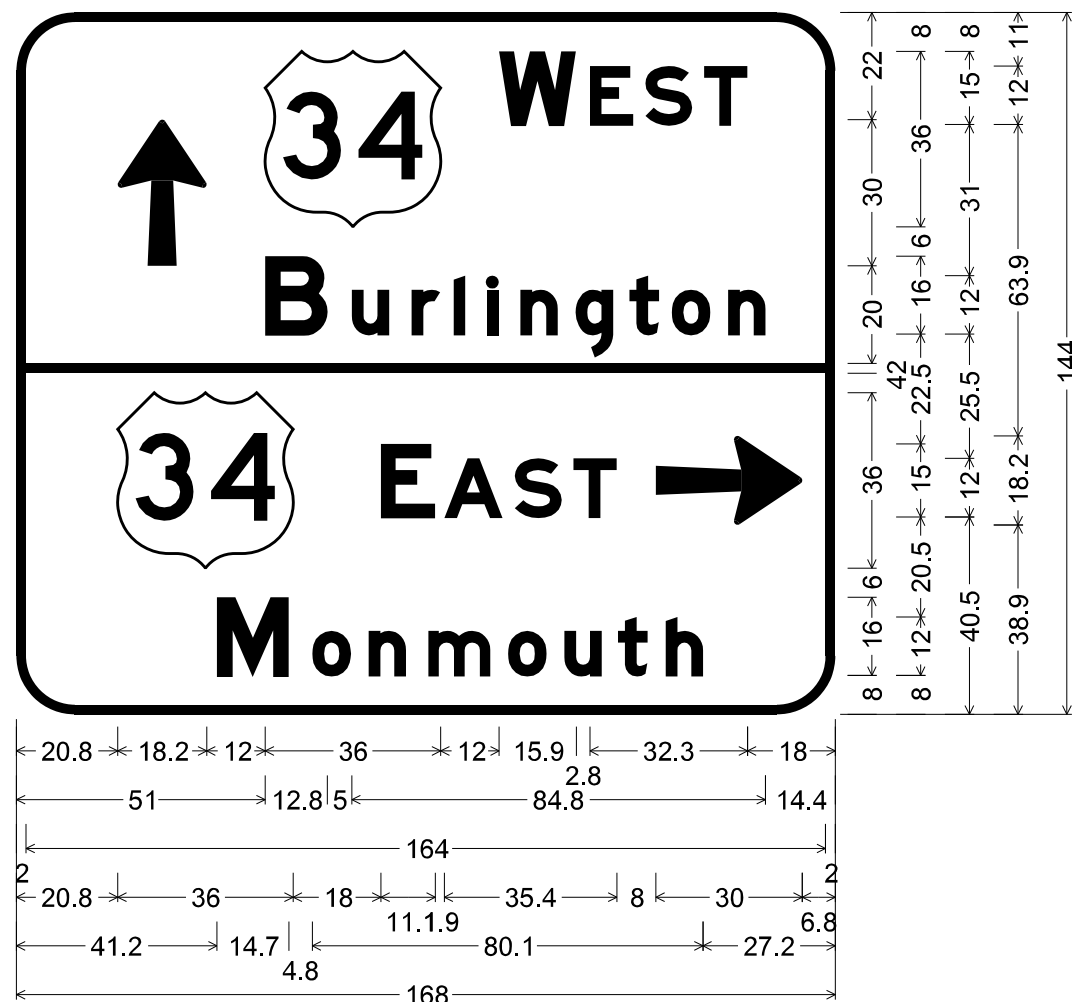
SIGN # 011: STATION 29+86 (IL 94/116)



12.0" Radius, 2.0" Border, White on Green;  
 [EAST] E Mod; Arrow 133 - 30.0" 180°; [Monmouth] E Mod;  
 Table of widths and spaces.

36.3	36.0	10.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	43.3									
11.2	←	30.0																					
15.0	M	14.7	o	4.8	7.9	3.7	n	7.6	4.6	m	12.7	3.7	o	7.8	3.7	u	7.7	3.3	t	6.0	3.8	7.6	18.2

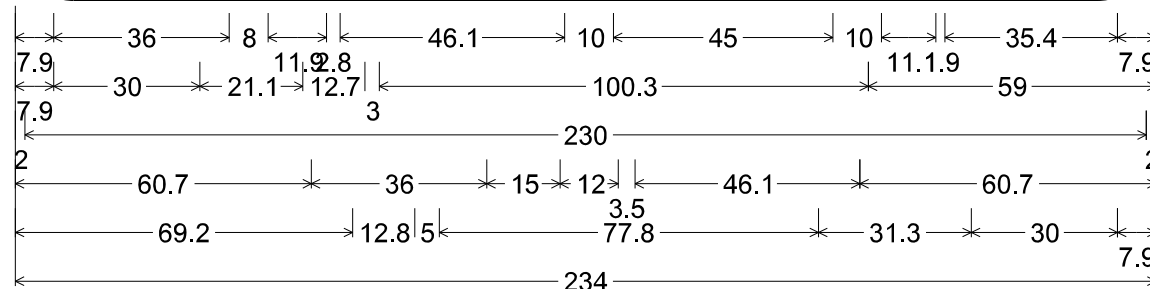
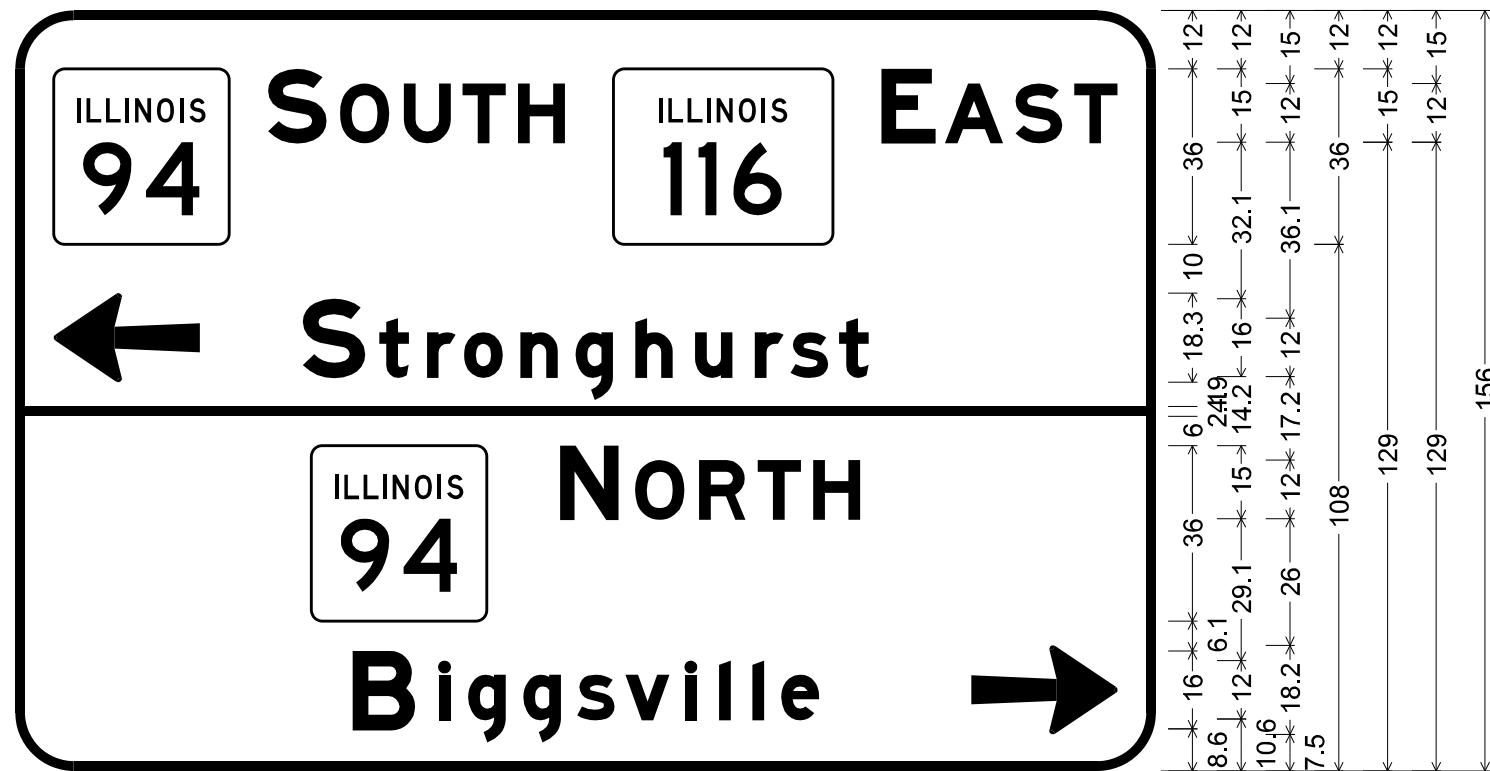
SIGN # 012: STATION 33+86 (IL 94/116)



12.0" Radius, 2.0" Border, White on Green;  
 Arrow 133 - 30.0" 90°; [WEST] E Mod; [Burlington] E Mod;  
 [EAST] E Mod; Arrow 133 - 30.0" 0°; [Monmouth] E Mod;  
 Table of widths and spaces.

20.8	↑	18.2	12.0	36.0	12.0	W	15.9	2.8	E	8.9	2.4	S	9.6	2.5	T	8.9	18.0										
51.0	B	12.8	5.0	u	7.7	4.6	r	5.8	2.8	l	2.2	4.6	l	2.3	4.6	n	7.6	3.7	g	7.7	3.3	6.0	2.7	7.9	3.7	7.6	14.4
2.0	—	164.0	2.0																								
20.8	36.0	18.0	34	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	8.0	→	30.0	6.8									
41.2	M	14.7	4.8	o	7.9	3.7	n	7.6	4.6	m	12.7	3.7	o	7.8	3.7	u	7.7	3.3	t	6.0	3.8	7.6	27.2				

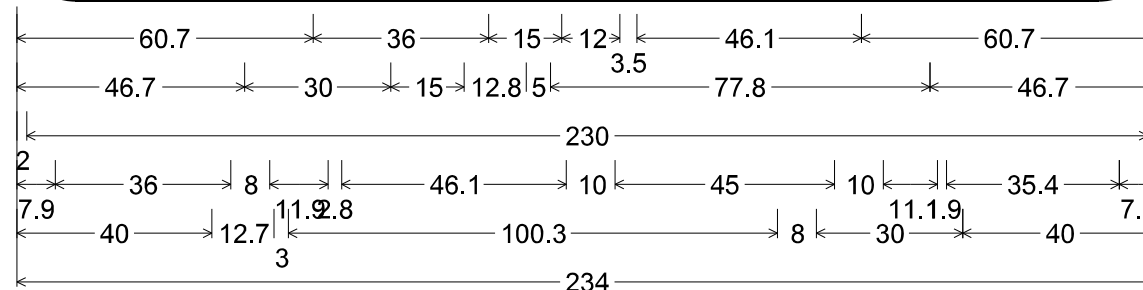
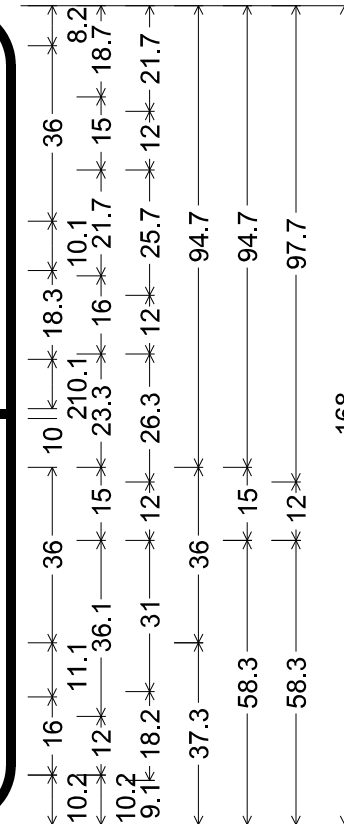
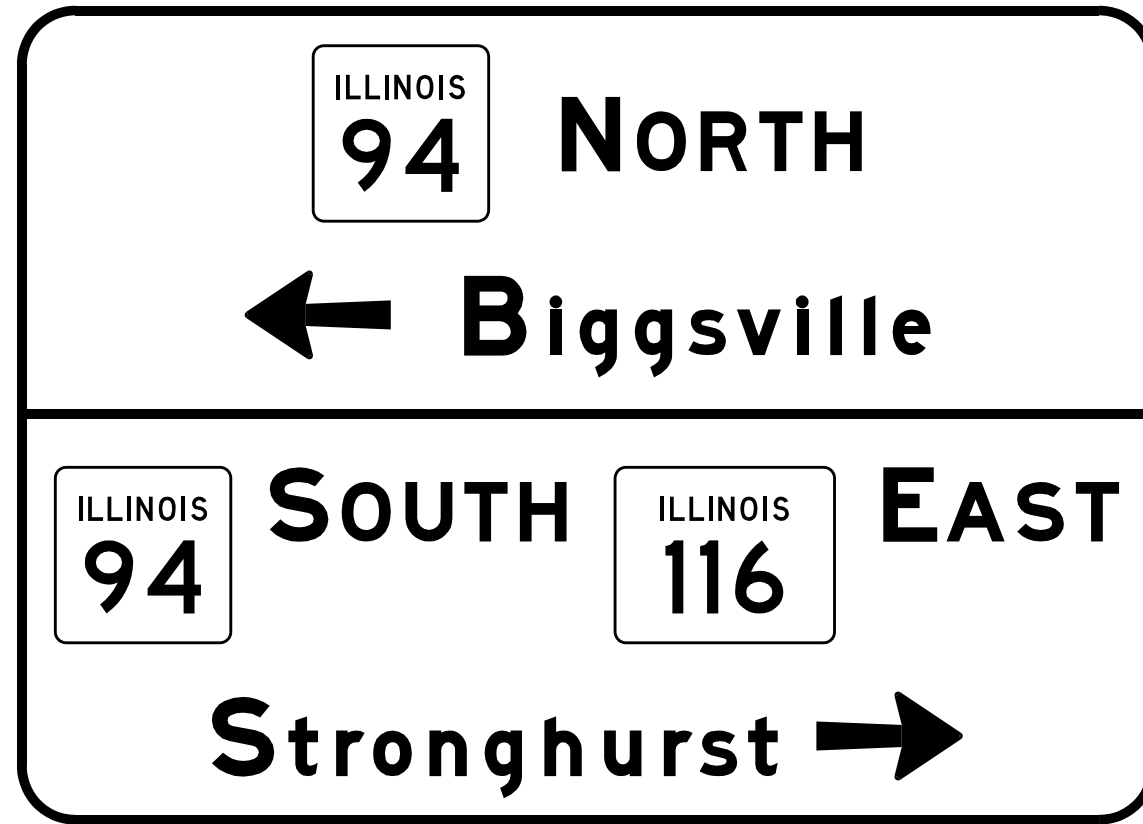
SIGN # 013: STATION 20+75 (RAMP A)



12.0" Radius, 2.0" Border, White on Green;  
 [SOUTH] E Mod; [EAST] E Mod; Arrow 133 - 30.0" 180°; [Stronghurst] E Mod;  
 [NORTH] E Mod; [Biggsville] E Mod; Arrow 133 - 30.0" 0°;  
 Table of widths and spaces.

7.9		36.0	8.0	<b>S</b>	11.9	2.8	<b>O</b>	10.0	3.1	<b>U</b>	9.6	2.5	<b>T</b>	8.9	2.4	<b>H</b>	9.6	10.0		45.0																	
				<b>E</b>	10.0	11.1	1.9	<b>A</b>	12.0	2.5	<b>S</b>	9.5	2.5	<b>T</b>	8.9	7.9																					
7.9		30.0																																			
				<b>S</b>	21.1	12.7	3.0	<b>t</b>	6.0	3.8	<b>r</b>	5.8	1.8	<b>o</b>	7.8	3.7	<b>n</b>	7.7	3.6	<b>g</b>	7.7	4.6	<b>h</b>	7.7	4.6	<b>u</b>	7.6	4.6	<b>r</b>	5.9	1.5	<b>s</b>	7.6	2.3	<b>t</b>	6.0	59.0
2.0		230.0	2.0																																		
60.7		36.0	15.0	<b>N</b>	12.0	3.5	<b>O</b>	10.0	3.1	<b>R</b>	9.5	2.5	<b>T</b>	8.9	2.5	<b>H</b>	9.6	60.7																			
69.2	<b>B</b>	12.8	5.0	<b>I</b>	2.2	3.7	<b>g</b>	7.7	3.6	<b>g</b>	7.7	3.3	<b>s</b>	7.6	2.4	<b>v</b>	8.9	3.4	<b>I</b>	2.3	4.6	<b>I</b>	2.2	4.6	<b>I</b>	2.3	3.6	<b>e</b>	7.7								
					30.0	7.9																															

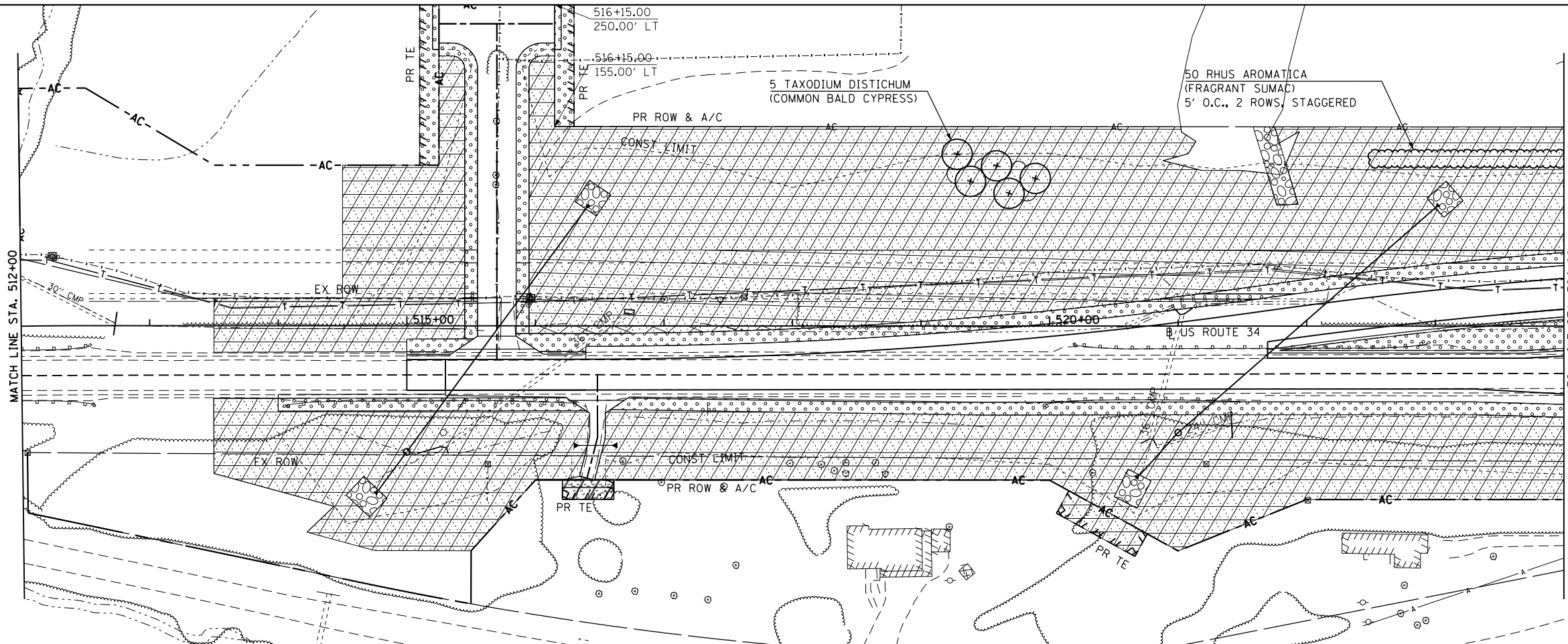
SIGN # 014: STATION 21+00 (RAMP C)



12.0" Radius, 2.0" Border, White on Green;  
 [NORTH] E Mod; Arrow 133 - 30.0" 180°; [Biggsville] E Mod; [SOUTH] E Mod;  
 [EAST] E Mod; [Stronghurst] E Mod; Arrow 133 - 30.0" 0°;

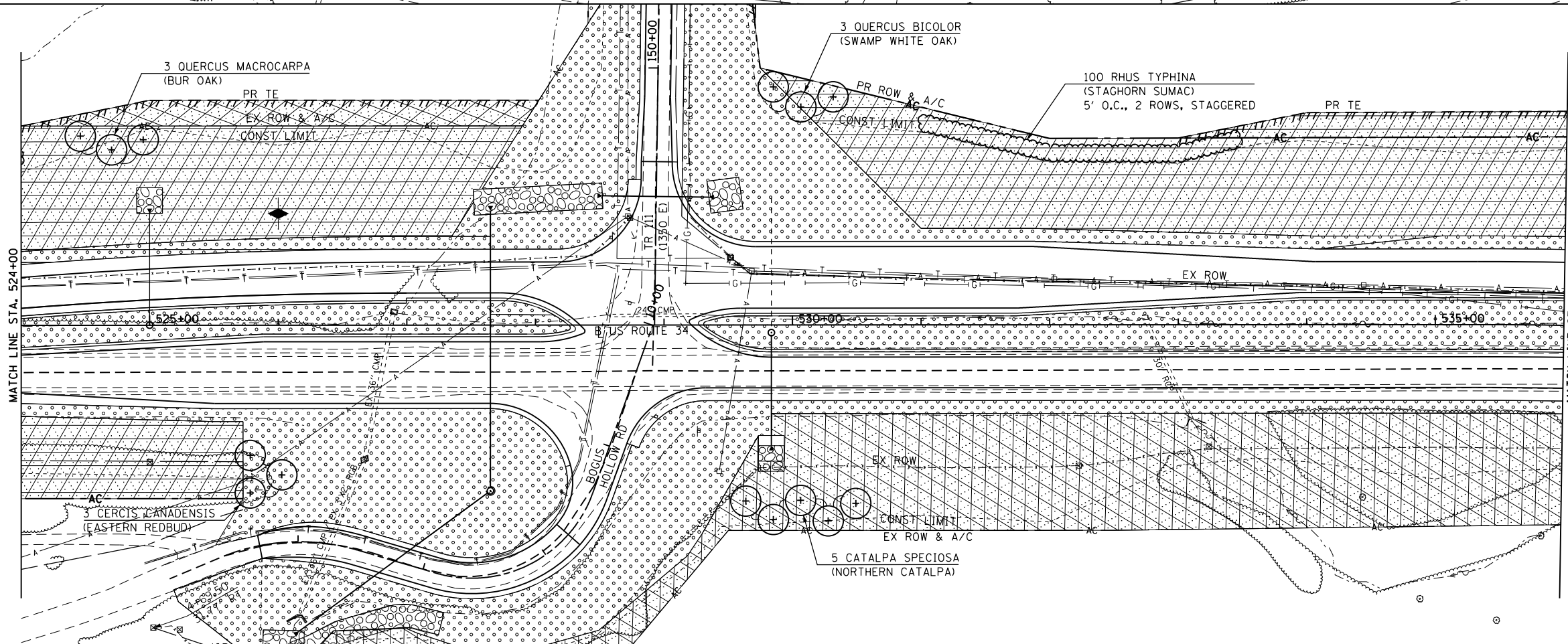
Table of widths and spaces.

60.7		36.0	15.0	N	12.0	3.5	O	10.0	3.1	R	9.5	2.5	T	8.9	2.5	H	9.6	60.7														
46.7		30.0																														
15.0	B	12.8	5.0	i	2.2	3.7	g	7.7	3.6	g	7.7	3.3	s	7.6	2.4	v	8.9	3.4	i	2.3	4.6	i	2.2	4.6	i	2.3	3.6	e	7.7	46.7		
2.0	230.0		2.0																													
7.9		36.0	8.0	S	11.9	2.8	O	10.0	3.1	U	9.6	2.5	T	8.9	2.4	H	9.6	10.0		45.0												
10.0	E	11.1	1.9	A	12.0	2.5	S	9.5	2.5	T	8.9	7.9																				
40.0	S	12.7	3.0	t	6.0	3.7	r	5.9	1.8	o	7.8	3.7	n	7.7	3.6	g	7.7	4.6	h	7.6	4.7	u	7.6	4.6	r	5.9	1.5	s	7.6	2.3	t	6.0
8.0		30.0	40.0																													



**LEGEND**

	SEEDING CLASS 1A
	SEEDING CLASS 2A
	SEEDING CLASS 4A & 5A COMBINED
	PR SHADE TREE
	PR EVERGREEN TREE
	SHRUBS



FILE NAME = D468409-SHT-01-LNDSCP-US34-01.dgn  
 USER NAME = zach1  
 PLOT SCALE = 100.0000' / 1" = 100  
 PLOT DATE = 10/16/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

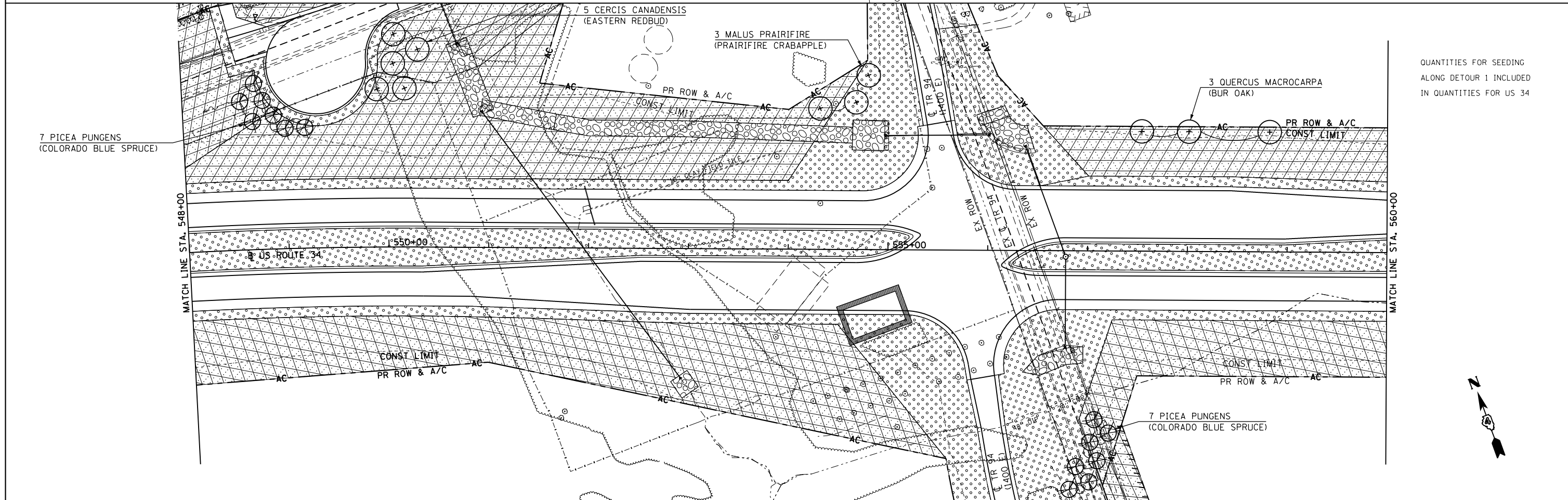
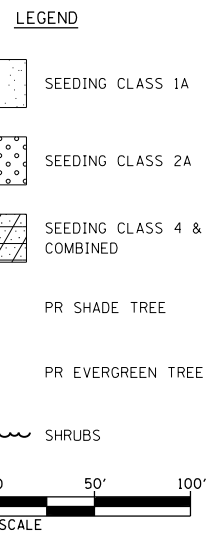
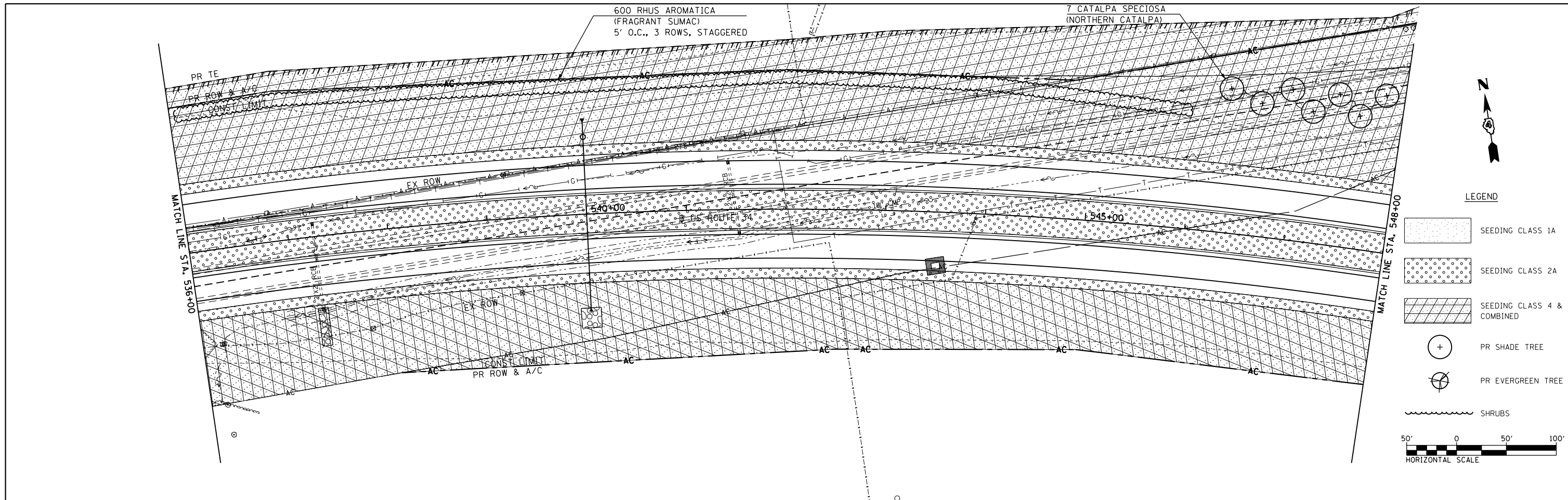
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 34**

SCALE: 1" = 50' SHEET NO. 1 OF 27 SHEETS STA. 512+00 TO STA. 536+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	421
CONTRACT NO. 68409				

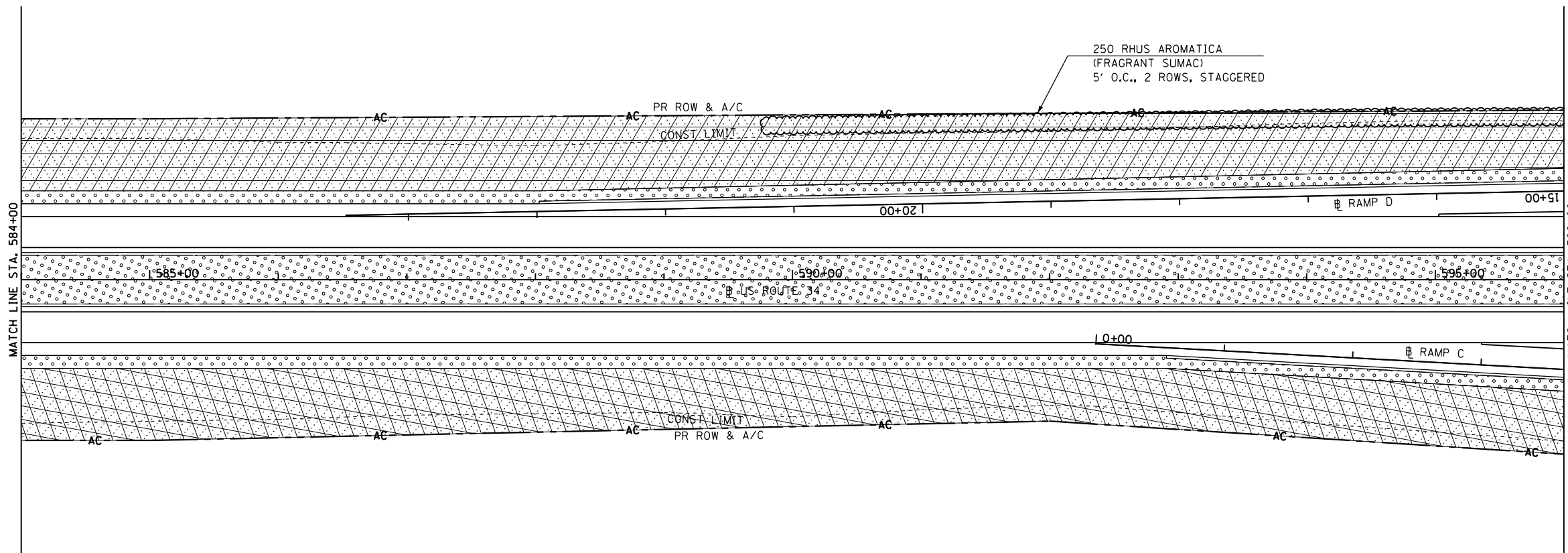
ILLINOIS FED. AID PROJECT



QUANTITIES FOR SEEDING  
ALONG DETOUR 1 INCLUDED  
IN QUANTITIES FOR US 34

FILE NAME = D468409-SHT-02-LNDCP-US34-02.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN US ROUTE 34</b>		F.A.P. RT. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 422	
	PLOT SCALE = 100.0000' / 1" =	DRAWN - PSBA	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 27 SHEETS	STA. 536+00	TO STA. 560+00		CONTRACT NO. 68409		
	PLOT DATE = 10/16/2012	CHECKED - CSB	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 10/2012	REVISED -									

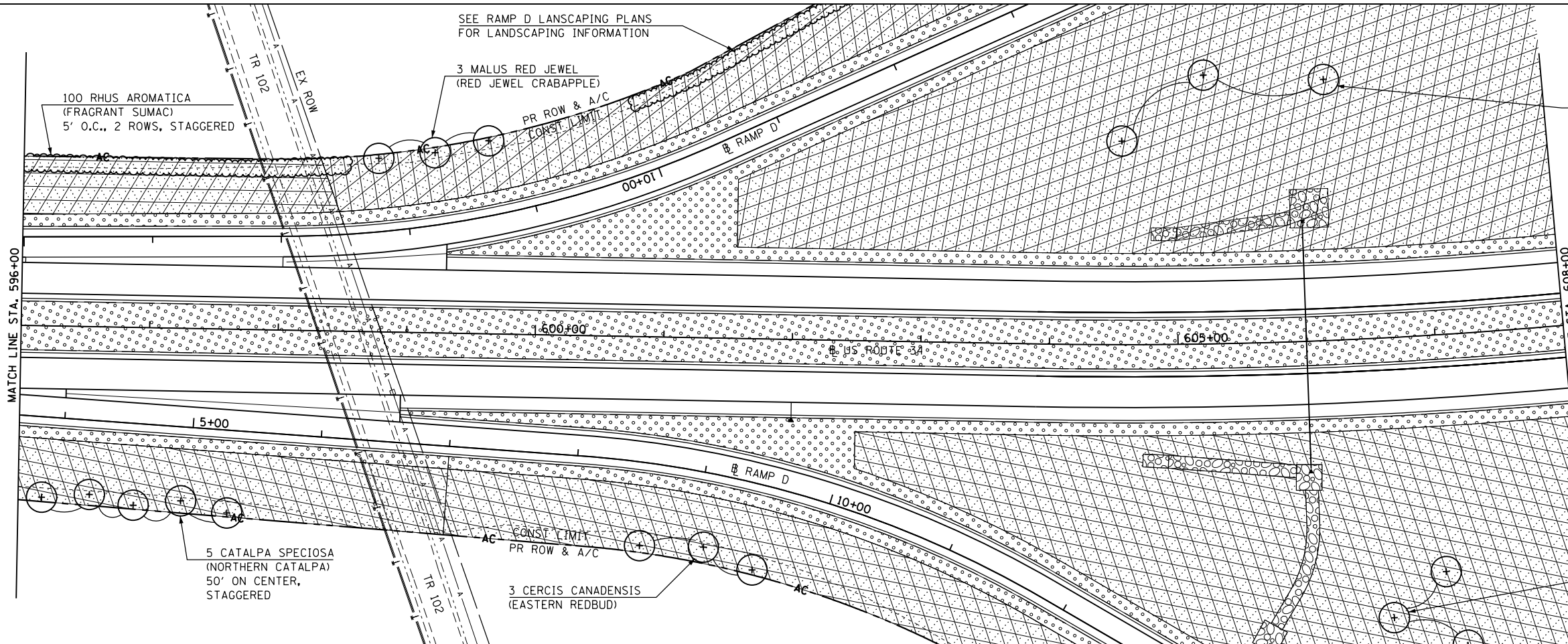




**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

50' 0 50' 100'  
HORIZONTAL SCALE



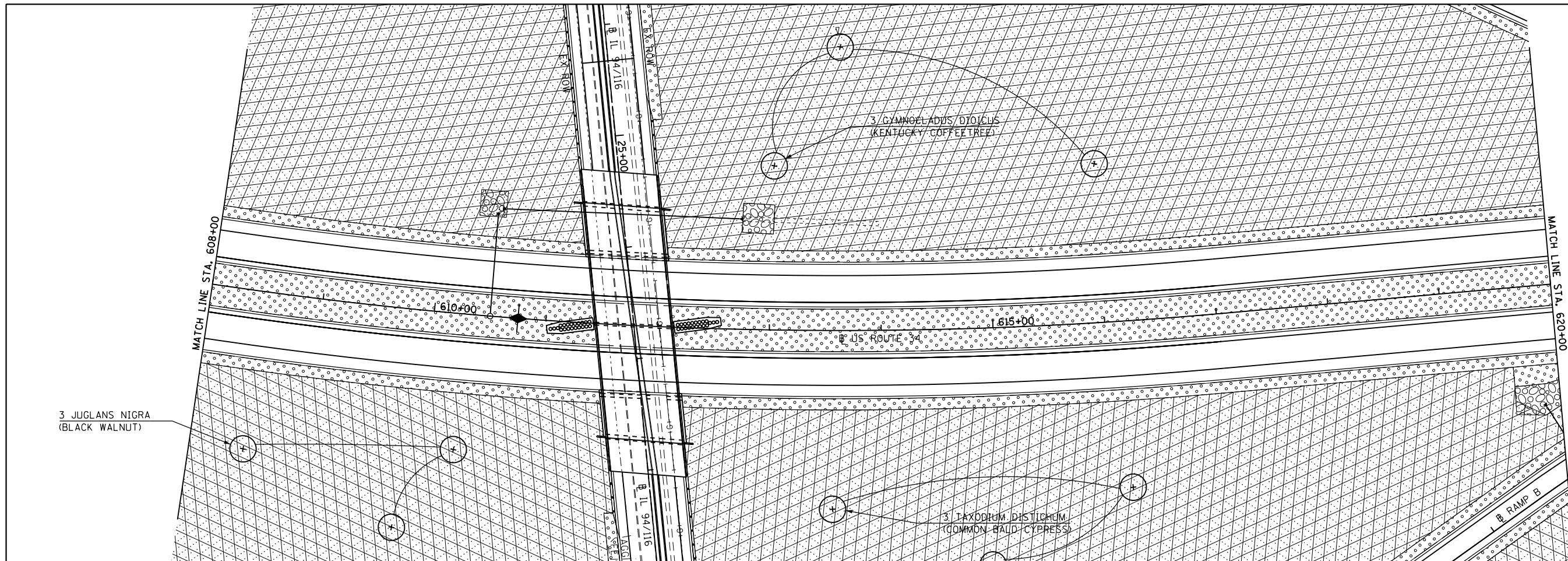
SEE RAMP D LANDSCAPING PLANS FOR LANDSCAPING INFORMATION

3 GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE)

3 GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE)

FILE NAME = D468409-SHT-04-LNDSKP-US34-04.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN US ROUTE 34</b>		F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 424
	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 4 OF 27 SHEETS	STA. 584+00 TO STA. 608+00	CONTRACT NO. 68409		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/16/2012	DATE = 10/2012	REVISED -								

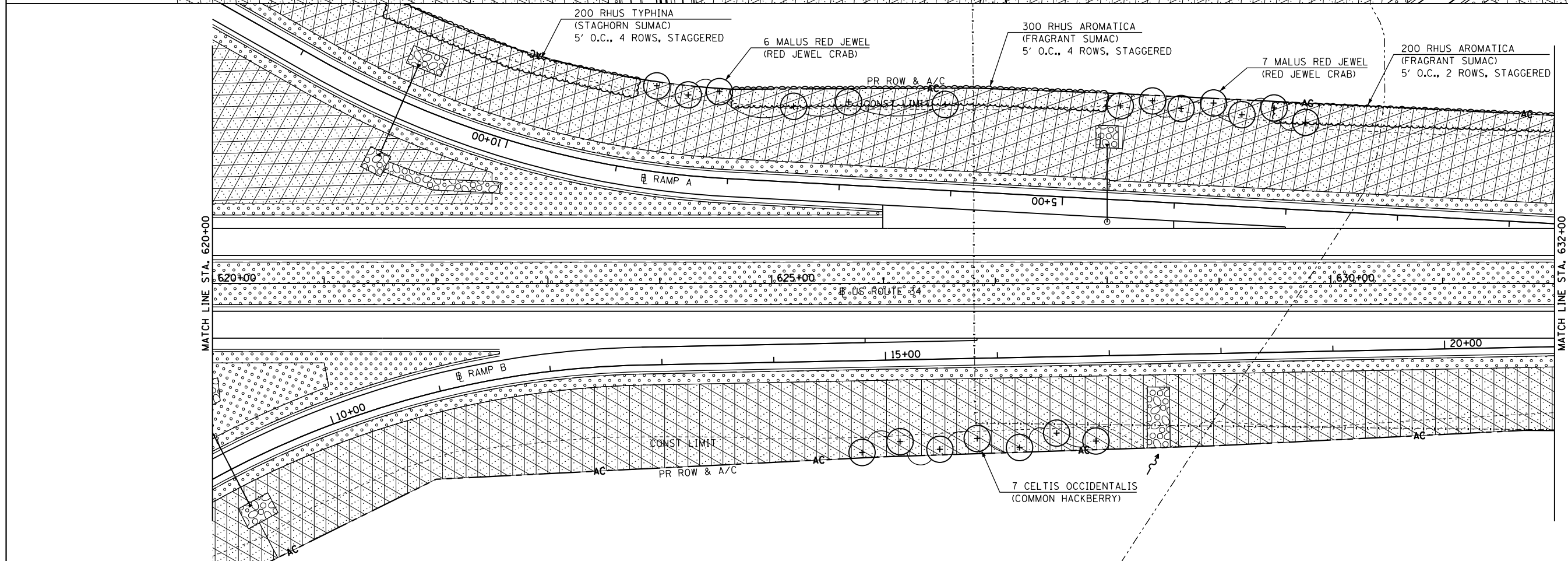




**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

HORIZONTAL SCALE



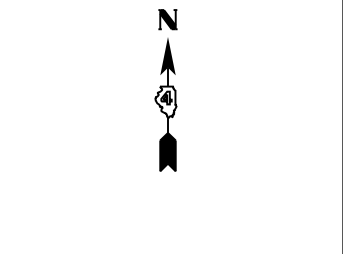
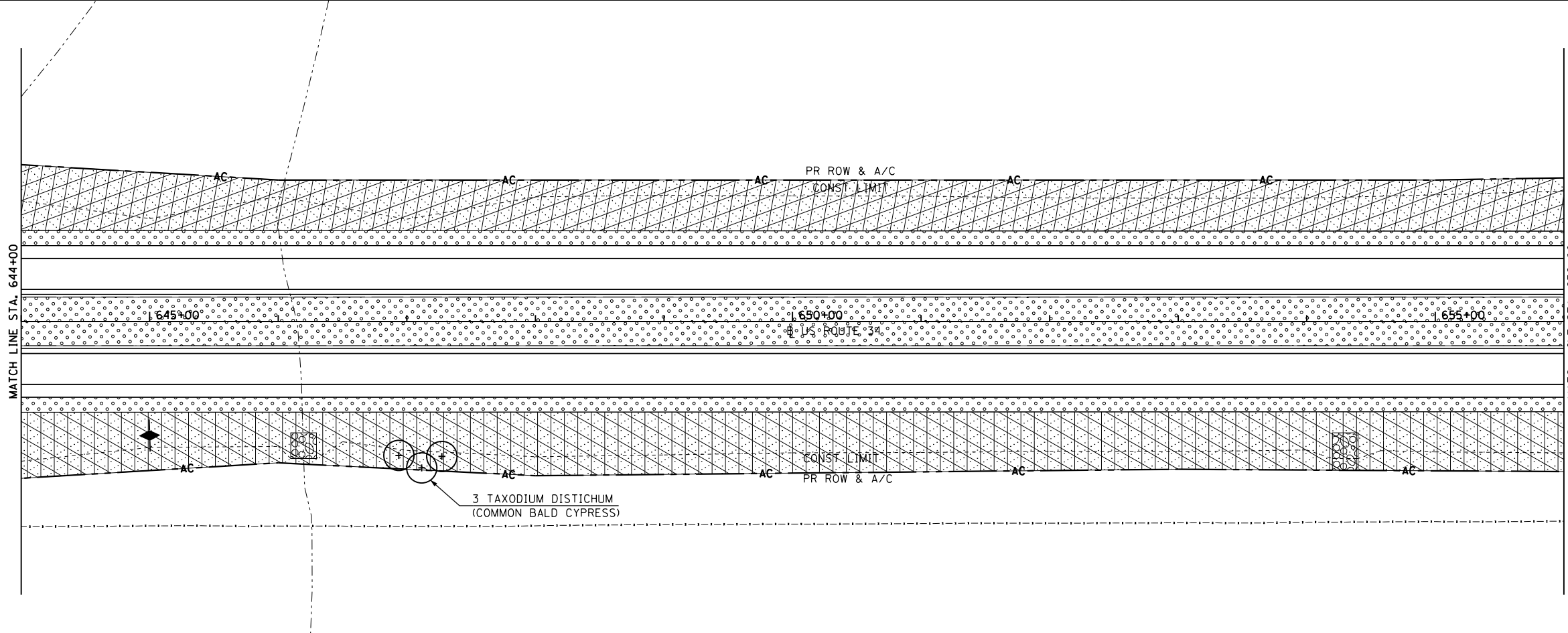
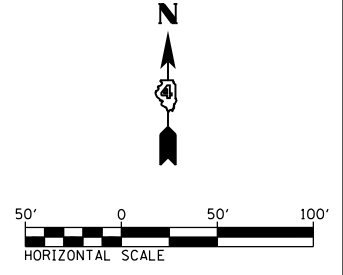
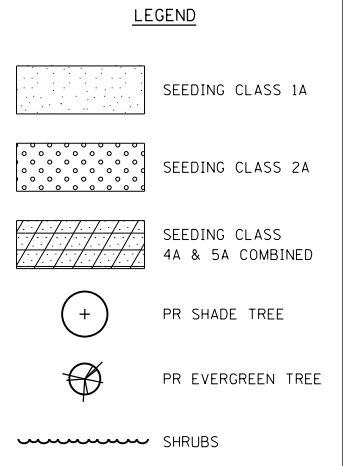
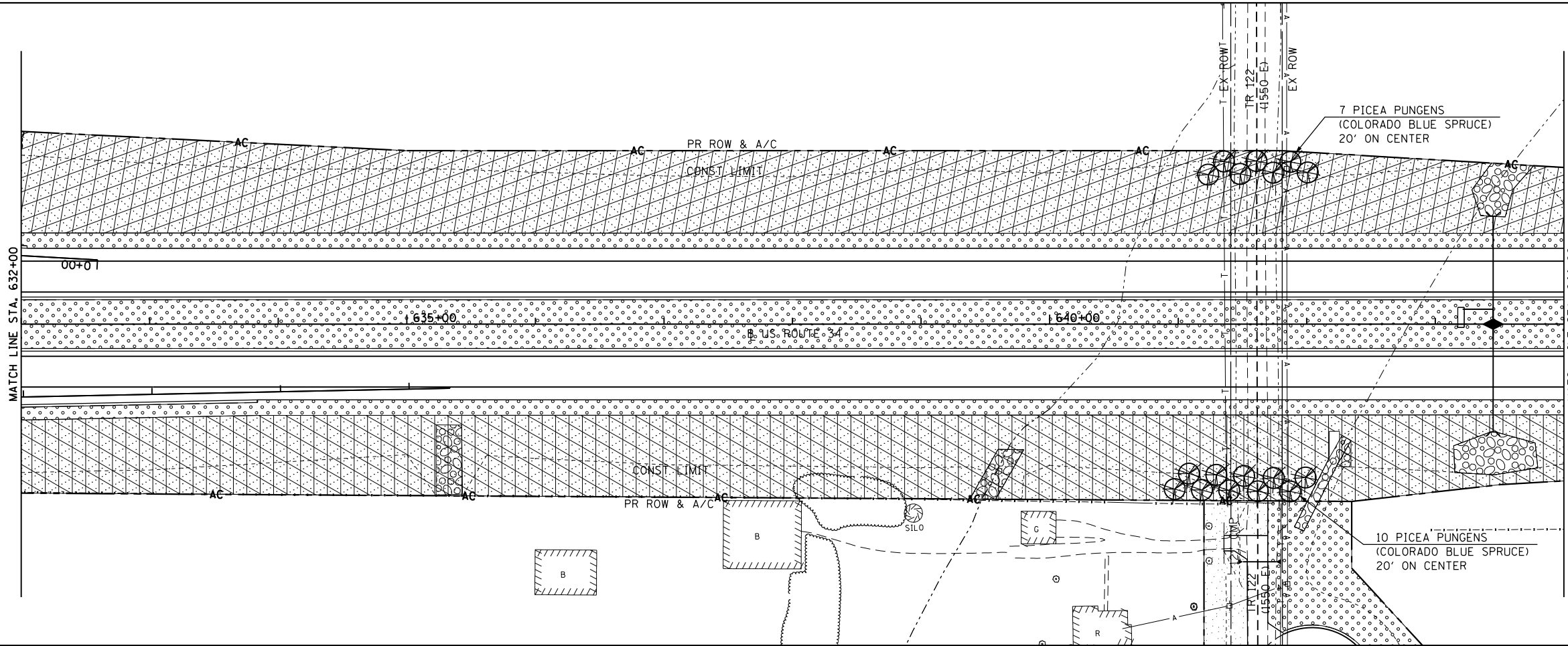
FILE NAME = D468409-SHT-05-LNDSKP-US34-05.dgn  
 USER NAME = zach1  
 PLOT SCALE = 100.0000' / 1" = 100  
 PLOT DATE = 10/16/2012

DESIGNED - DBS	REVISED -
DRAWN - PSBA	REVISED -
CHECKED - CSB	REVISED -
DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 34**  
 SCALE: 1" = 50'  
 SHEET NO. 5 OF 27 SHEETS  
 STA. 608+00 TO STA. 632+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 425
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

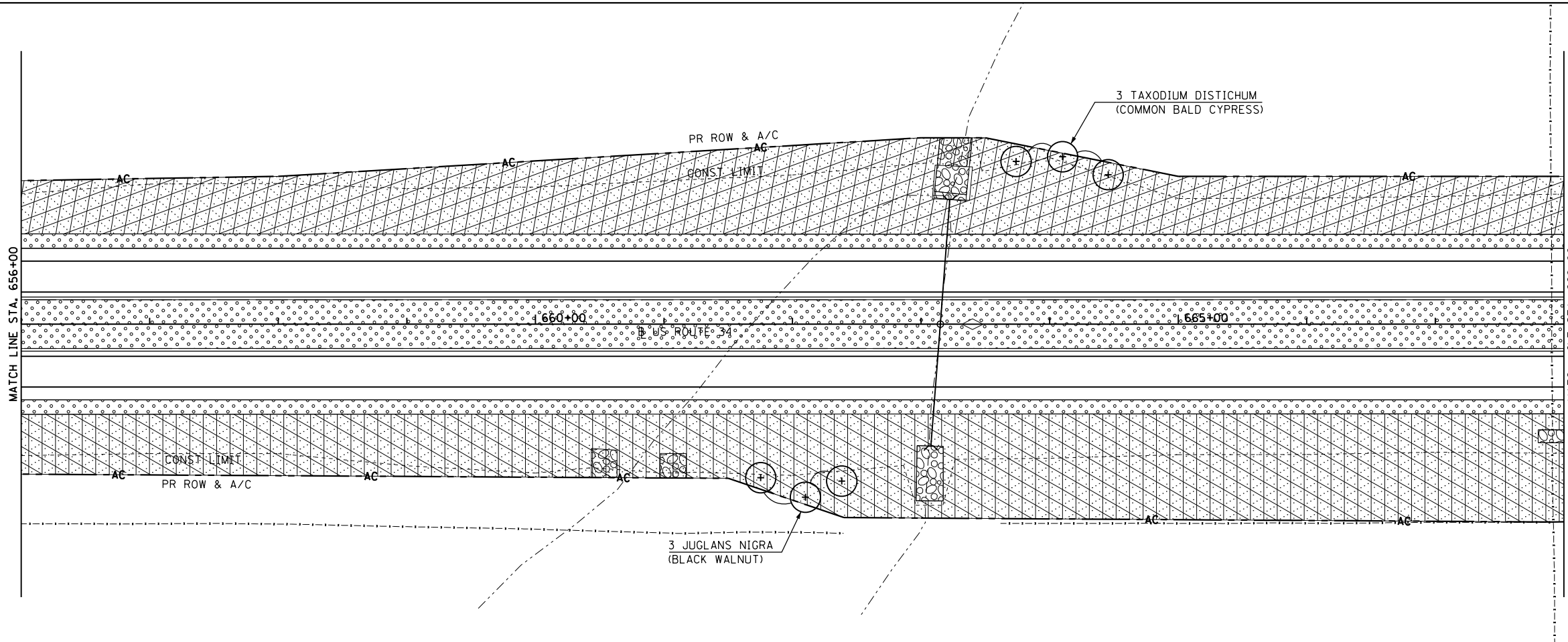


FILE NAME = D468409-SHT-06-LNDSCP-US34-06.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LANDSCAPING PLAN</b>	
<b>US ROUTE 34</b>	
SCALE: 1" = 50'	SHEET NO. 6 OF 27 SHEETS
STA. 632+00	TO STA. 656+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	426
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				



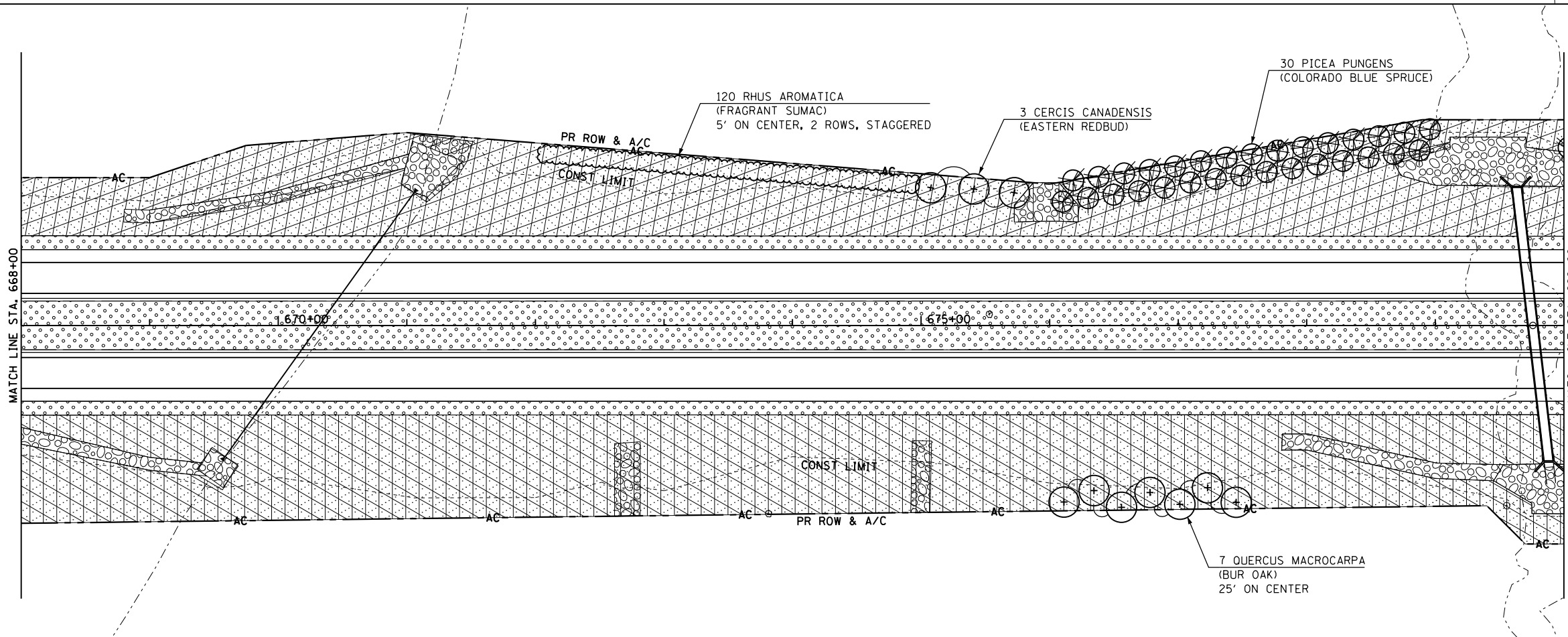
**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

N

50' 0 50' 100'






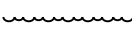
HORIZONTAL SCALE

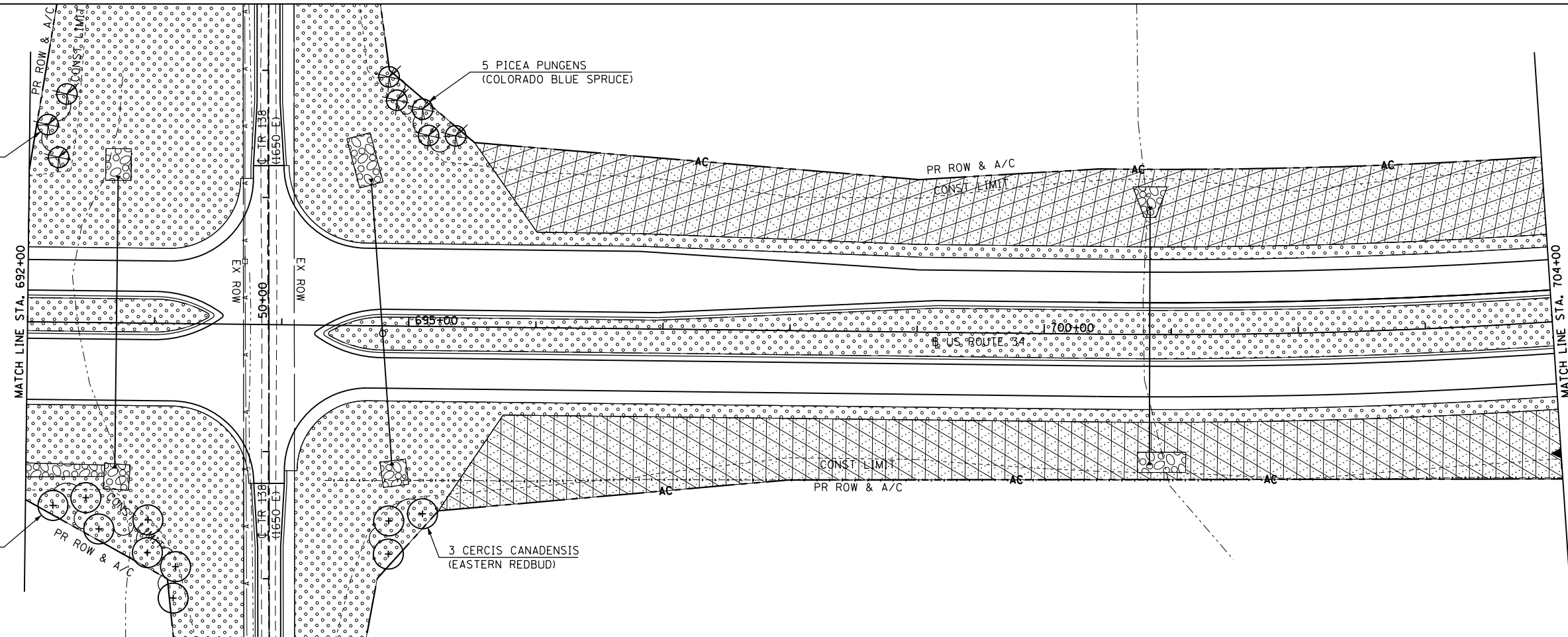
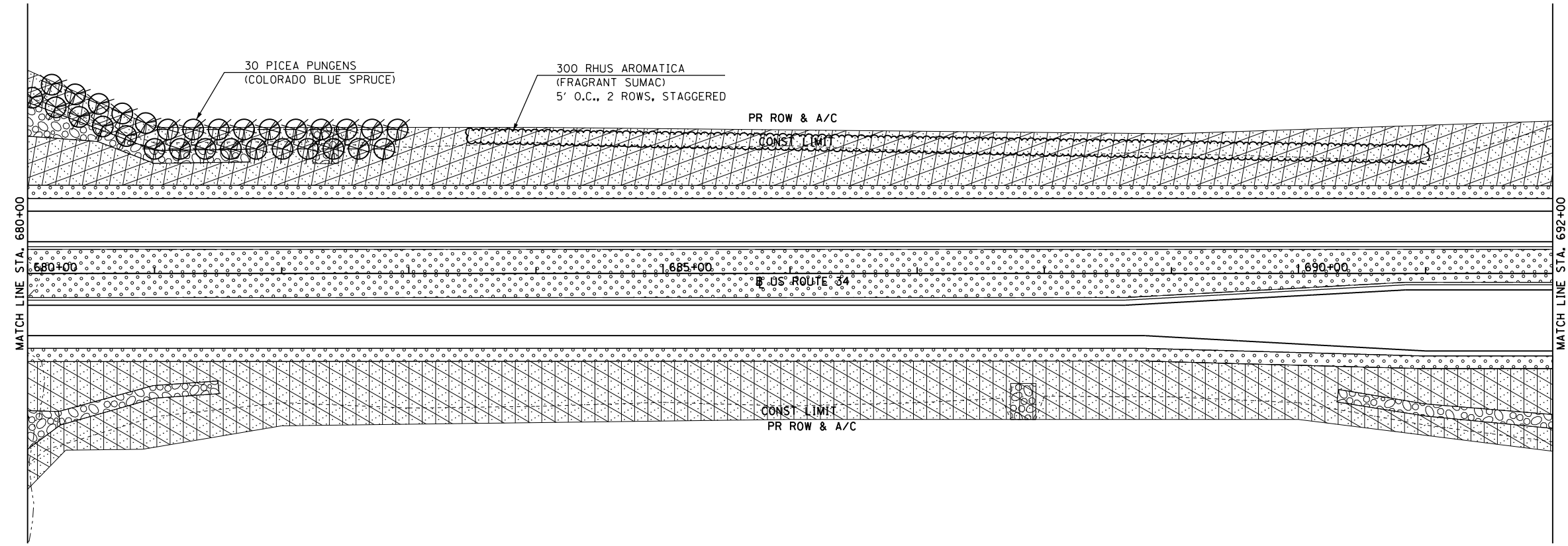
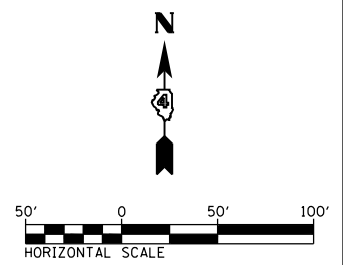


N

FILE NAME = D468409-SHT-07-LNDCP-US34-07.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN US ROUTE 34</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 427
	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 7 OF 27 SHEETS	STA. 656+00	TO STA. 680+00	CONTRACT NO. 68409			
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -		ILLINOIS FED. AID PROJECT							

LEGEND

-  SEEDING CLASS 1A
-  SEEDING CLASS 2A
-  SEEDING CLASS 4A & 5A COMBINED
-  PR SHADE TREE
-  PR EVERGREEN TREE
-  SHRUBS



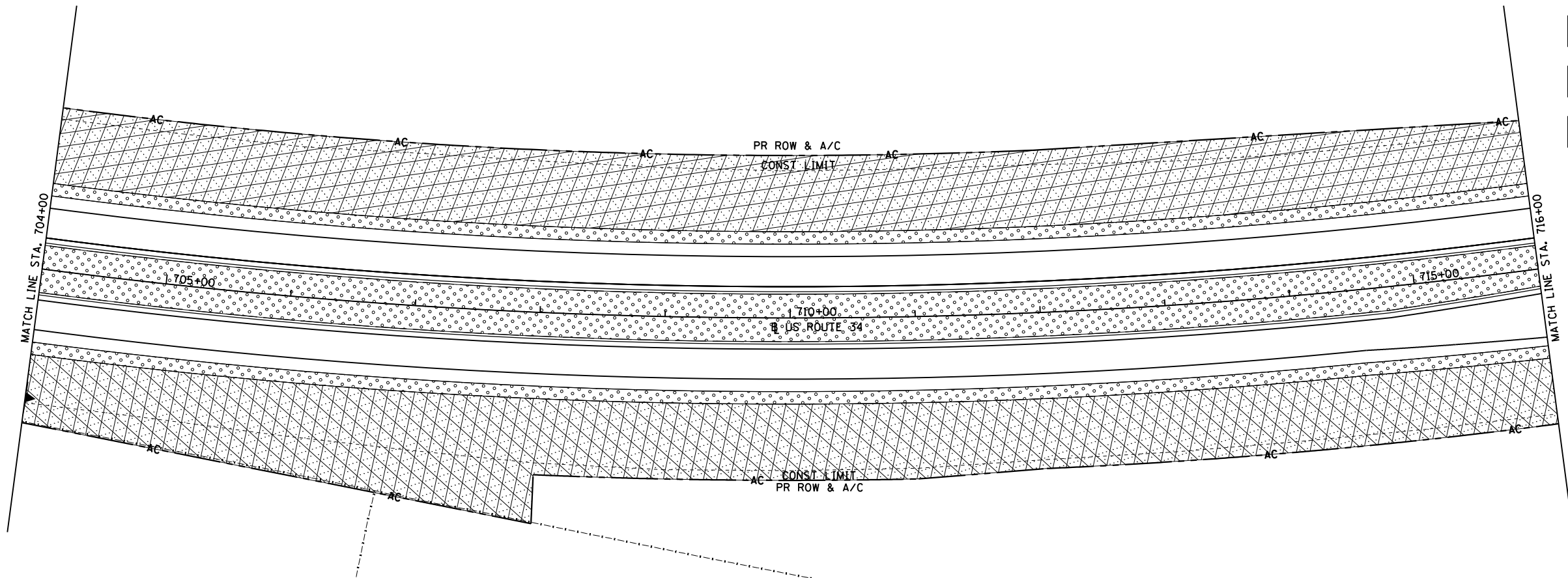
FILE NAME = D468409-SHT-08-LNDSKP-US34-08.dgn	USER NAME = zachl	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
US ROUTE 34

SCALE: 1" = 50' SHEET NO. 8 OF 27 SHEETS STA. 680+00 TO STA. 704+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 428
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

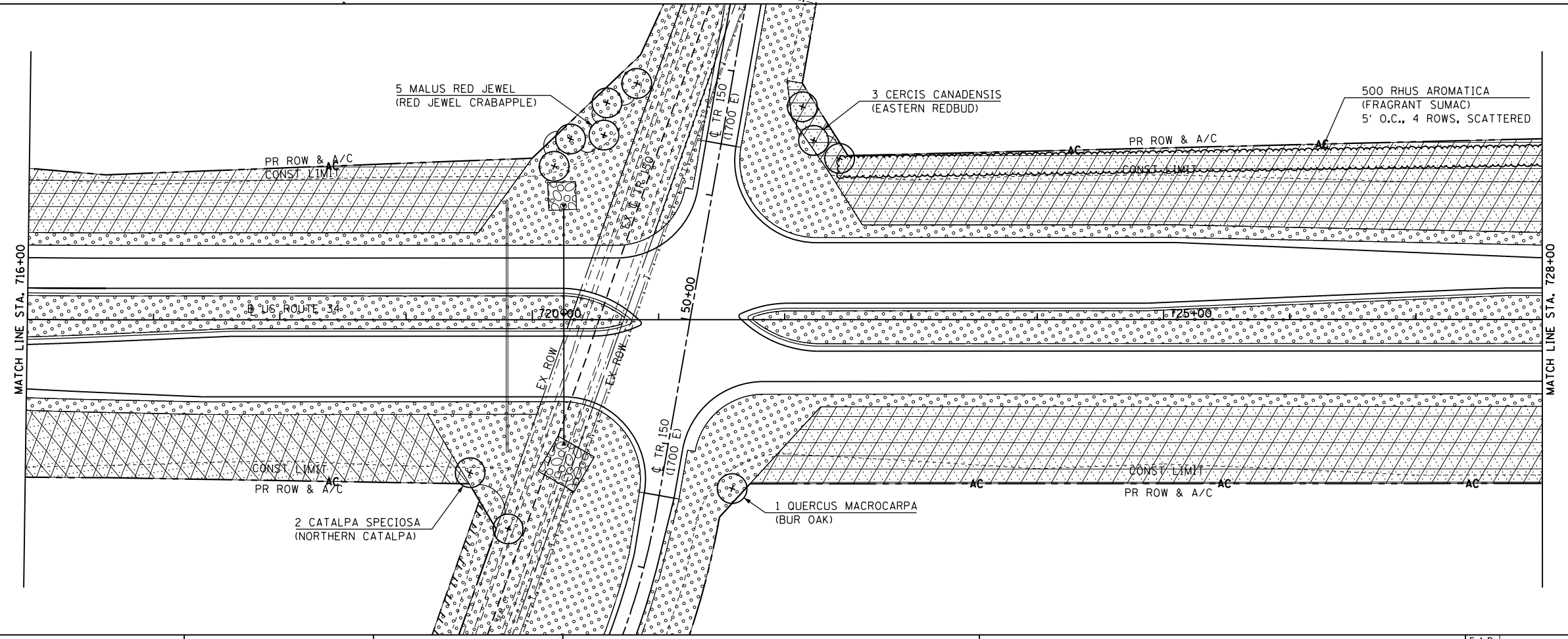


**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

N

50' 0 50' 100'  
HORIZONTAL SCALE



FILE NAME = D468409-SHT-09-LNDCSP-US34-09.dgn

USER NAME = zachl  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 10/16/2012

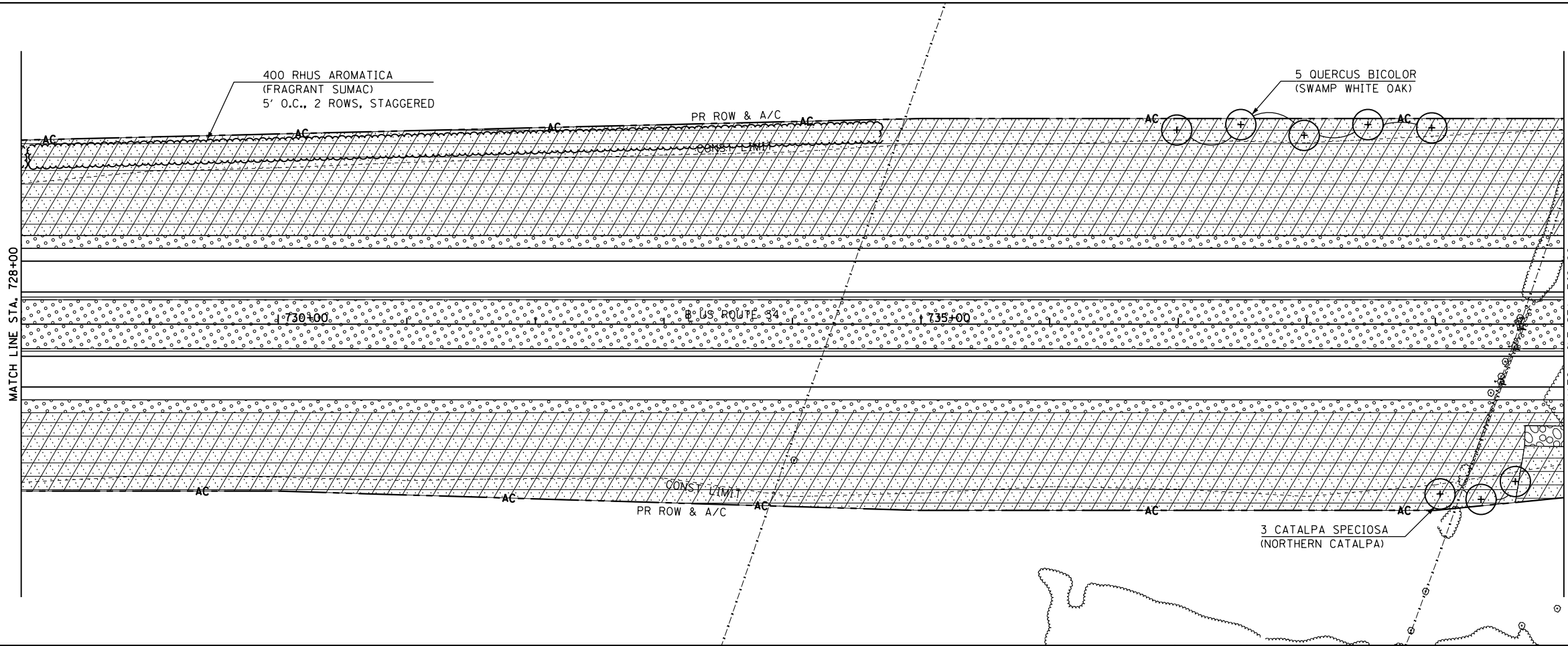
DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 34**  
 SCALE: 1" = 50' SHEET NO. 9 OF 27 SHEETS STA. 704+00 TO STA. 728+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	429
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

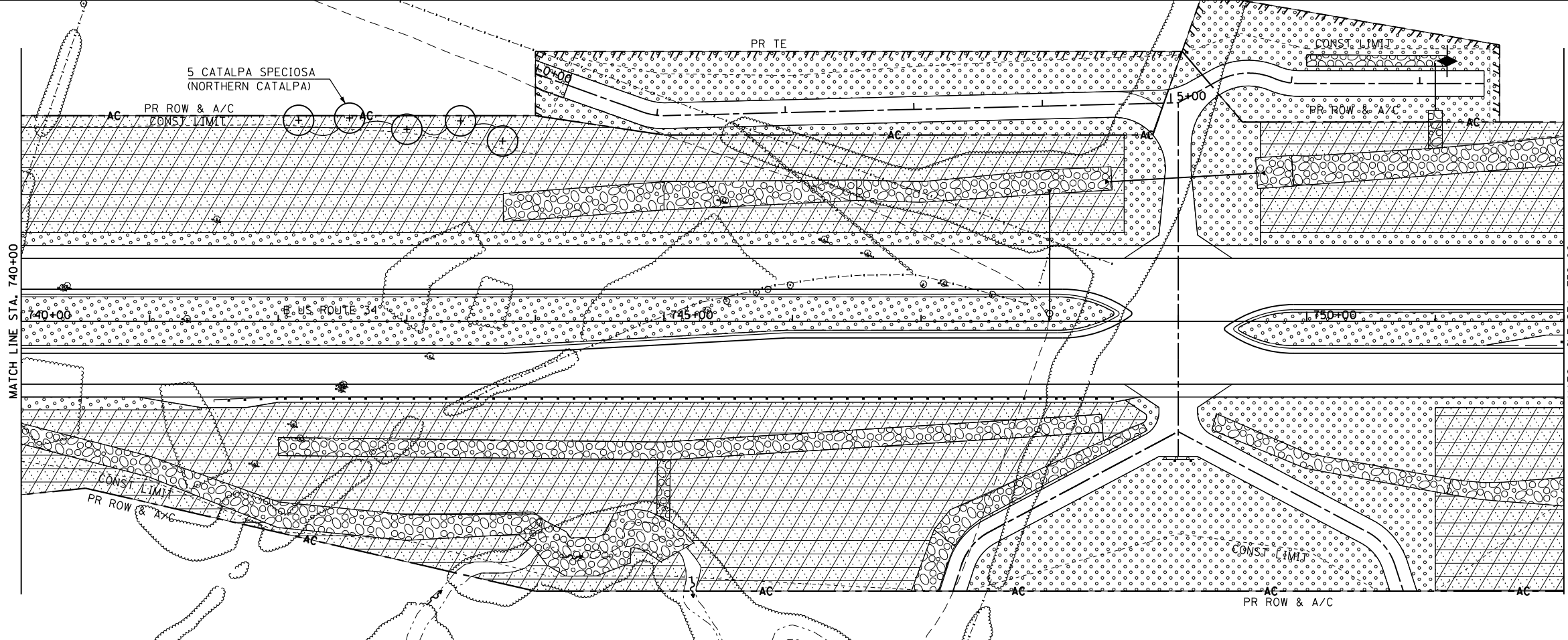


**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

N

50' 0 50' 100'  
HORIZONTAL SCALE



FILE NAME = D468409-SHT-10-LNDSCP-US34-10.dgn

USER NAME = zachl  
 PLOT SCALE = 100.0000' / 1" = 100'  
 PLOT DATE = 10/16/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

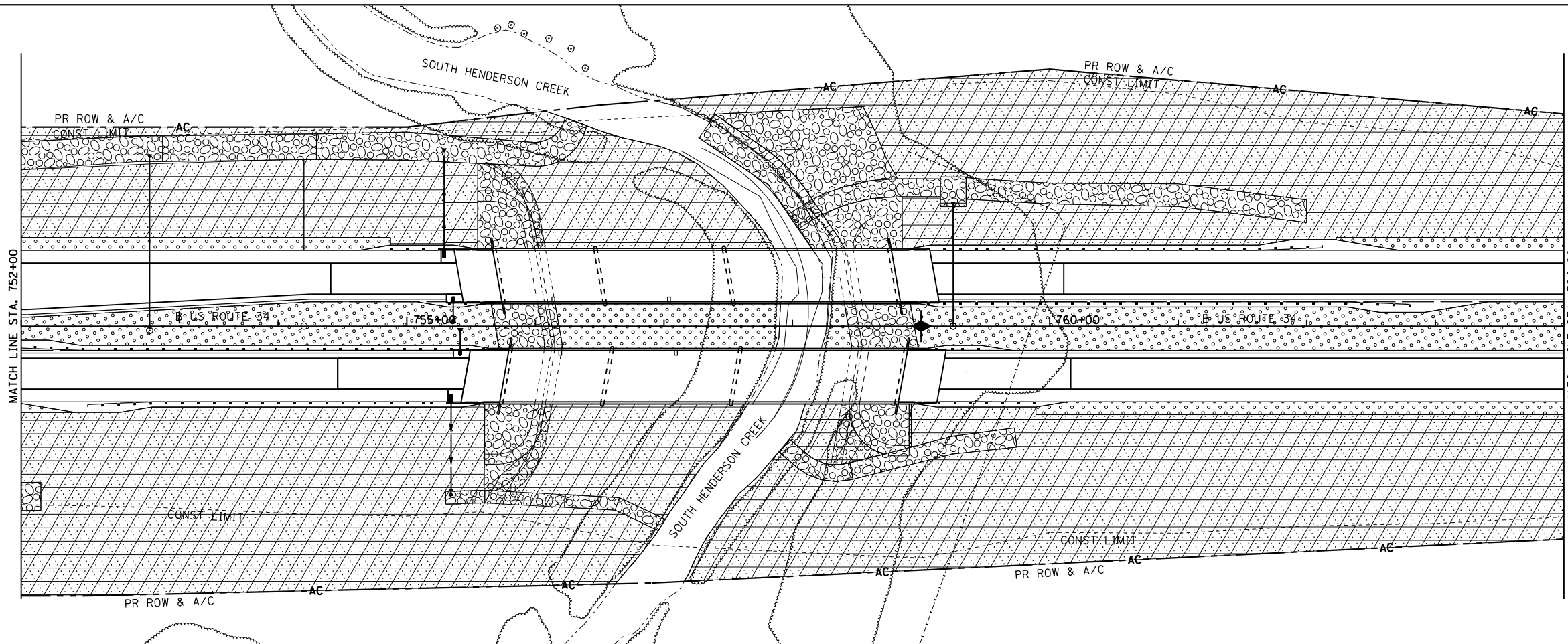
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 34**

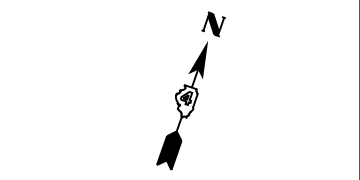
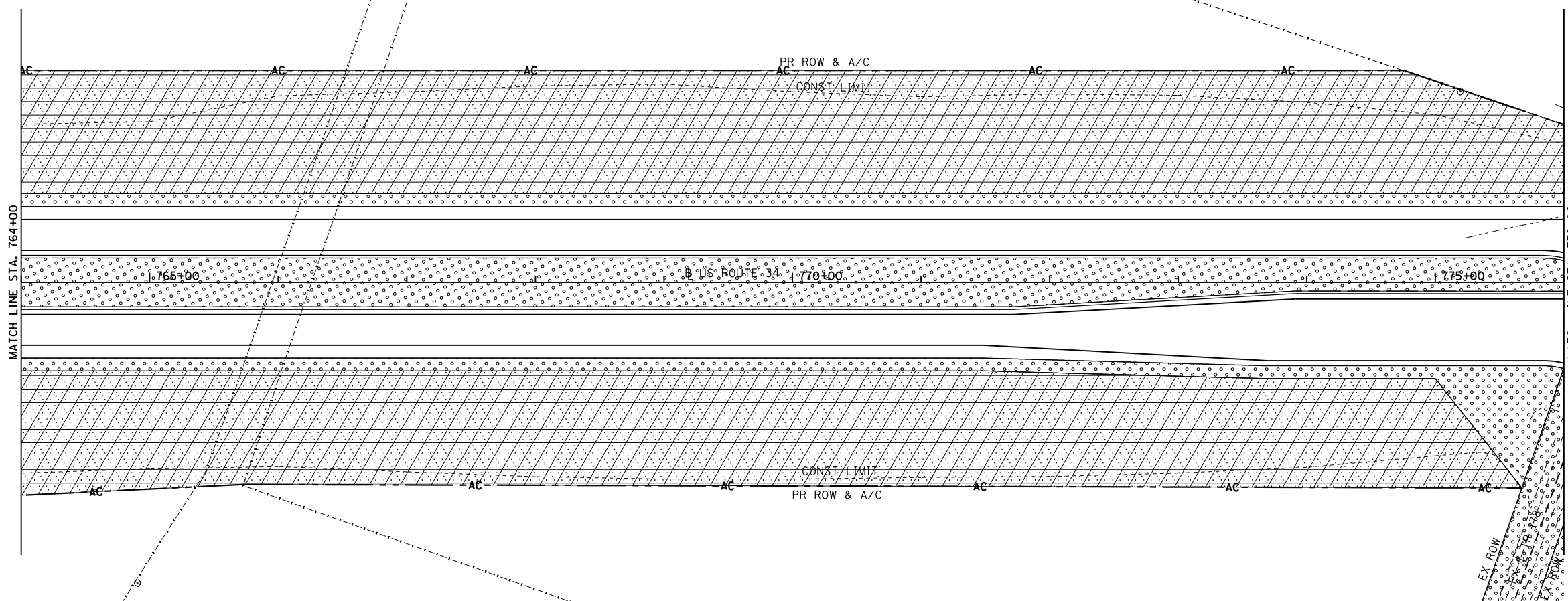
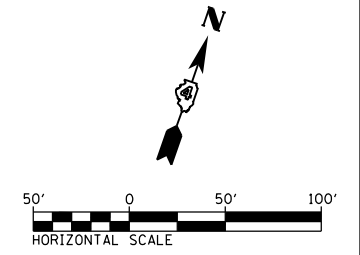
SCALE: 1" = 50'    SHEET NO. 10 OF 27 SHEETS    STA. 728+00    TO STA. 752+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	430
<b>CONTRACT NO. 68409</b>				

ILLINOIS FED. AID PROJECT



- LEGEND**
- SEEDING CLASS 1A
  - SEEDING CLASS 2A
  - SEEDING CLASS 4A & 5A COMBINED
  - PR SHADE TREE
  - PR EVERGREEN TREE
  - SHRUBS



FILE NAME = D468409-SHT-11-LNDSKP-US34-11.dgn

USER NAME = zachl  
 PLOT SCALE = 100.0000' / 1" =  
 PLOT DATE = 10/16/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

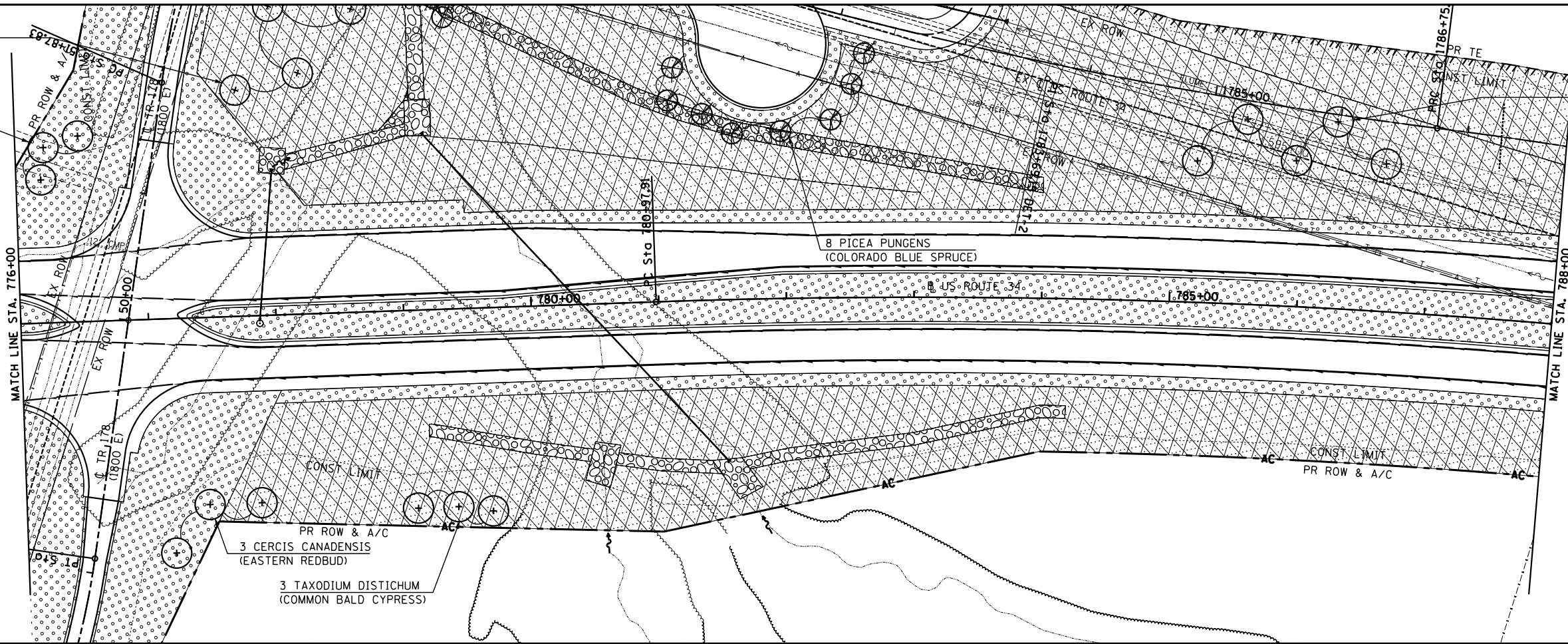
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 34**  
 SCALE: 1" = 50' SHEET NO. 11 OF 27 SHEETS STA. 752+00 TO STA. 776+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	431
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				

SEE TR 178 LANDSCAPING PLANS FOR LANDSCAPING INFORMATION







3 MALUS RED JEWEL (RED JEWEL CRABAPPLE)

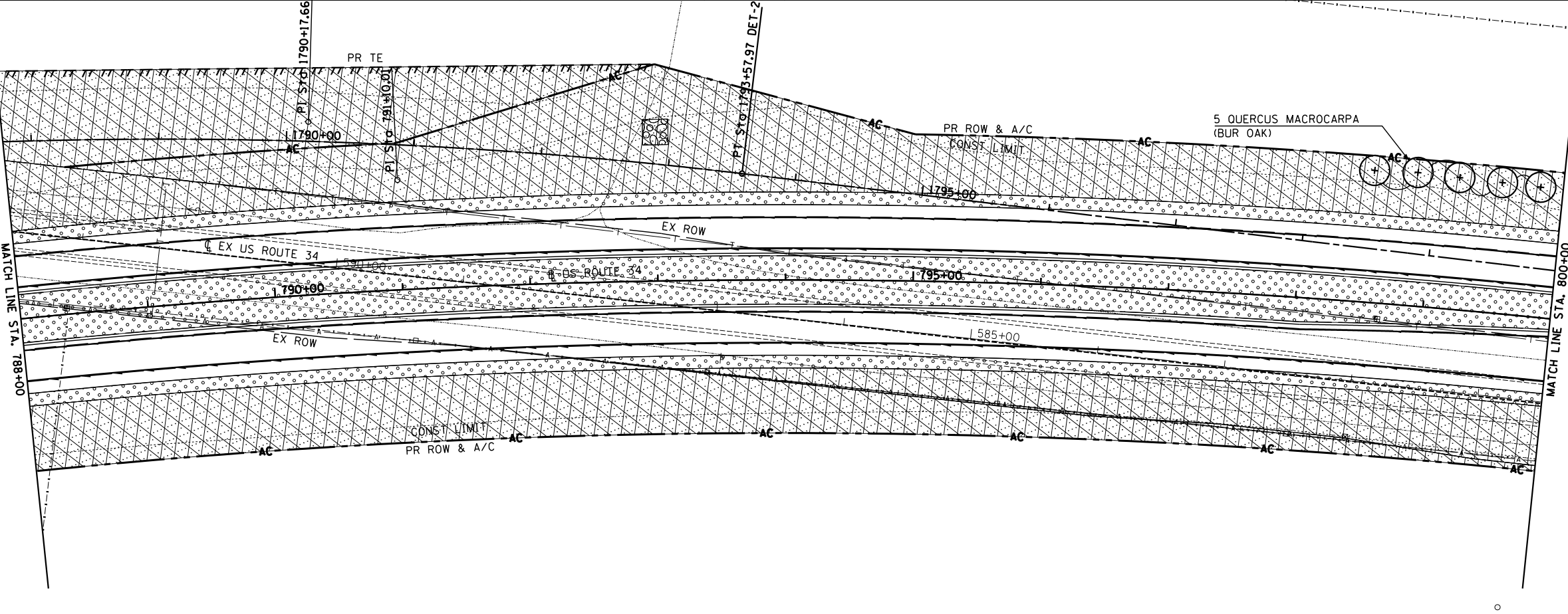


5 CATALPA SPECIOSA (NORTHERN CATALPA)



LEGEND

-  SEEDING CLASS 1A
  -  SEEDING CLASS 2A
  -  SEEDING CLASS 4A & 5A COMBINED
  -  PR SHADE TREE
  -  PR EVERGREEN TREE
  -  SHRUBS
- 50' 0 50' 100'  
HORIZONTAL SCALE



FILE NAME = D468409-SHT-12-LNDSCP-US34-12.dgn

USER NAME = notel  
PLOT SCALE = 100.0000' / 1"  
PLOT DATE = 11/14/2012

DESIGNED - DBS  
DRAWN - PSBA  
CHECKED - CSB  
DATE - 10/2012

REVISED - -  
REVISED - -  
REVISED - -  
REVISED - -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

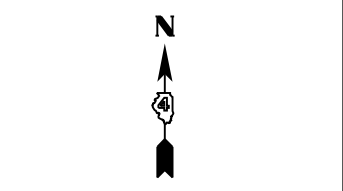
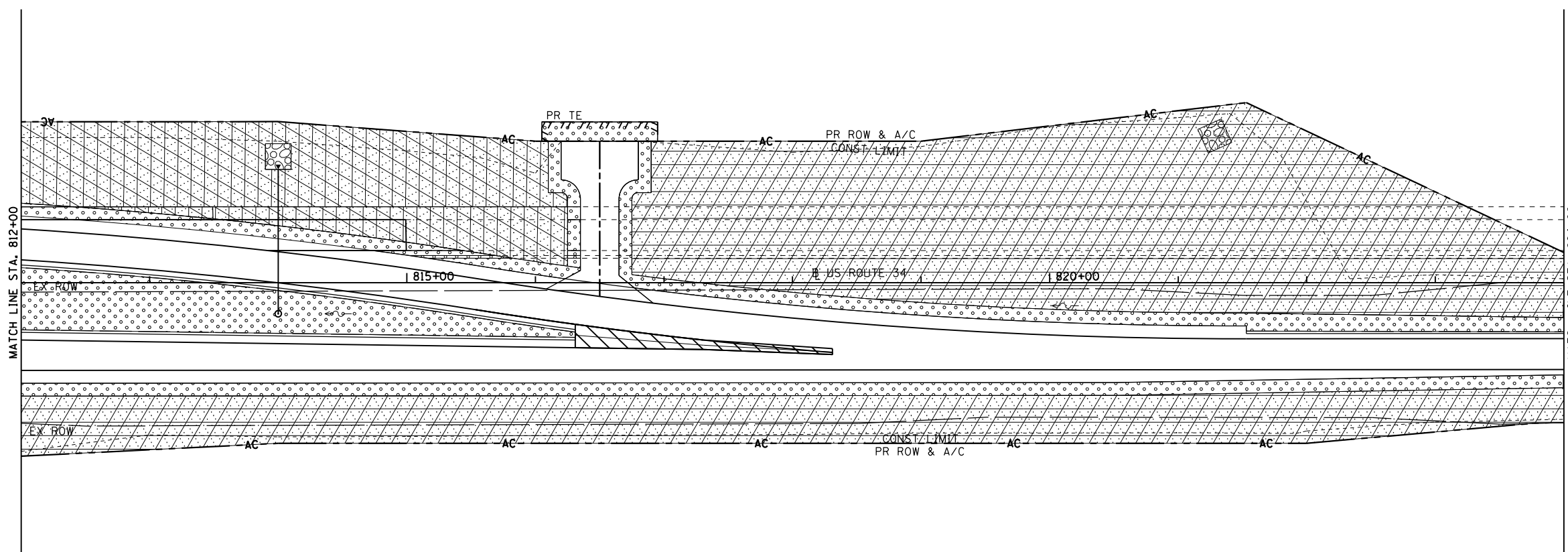
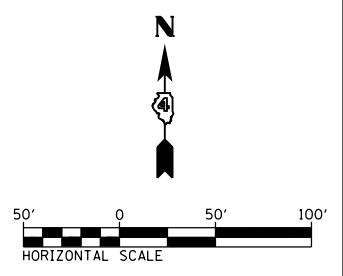
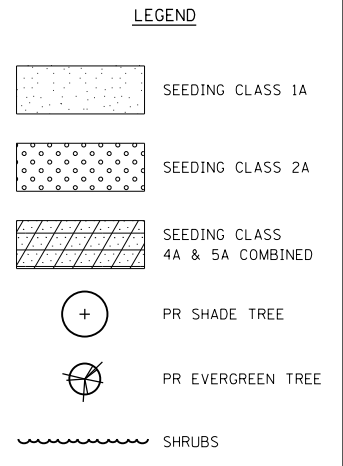
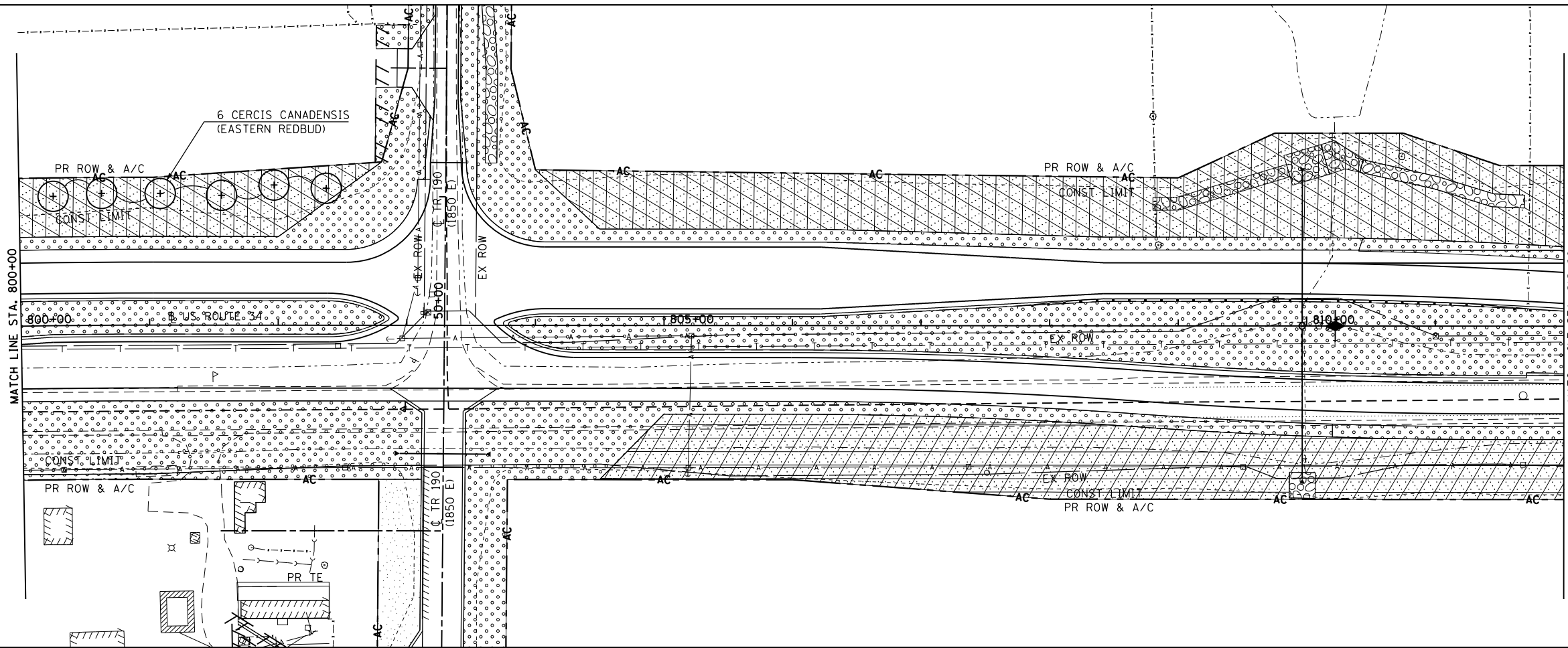
LANDSCAPING PLAN  
US ROUTE 34

SCALE: 1" = 50' SHEET NO. 12 OF 27 SHEETS STA. 776+00 TO STA. 800+00

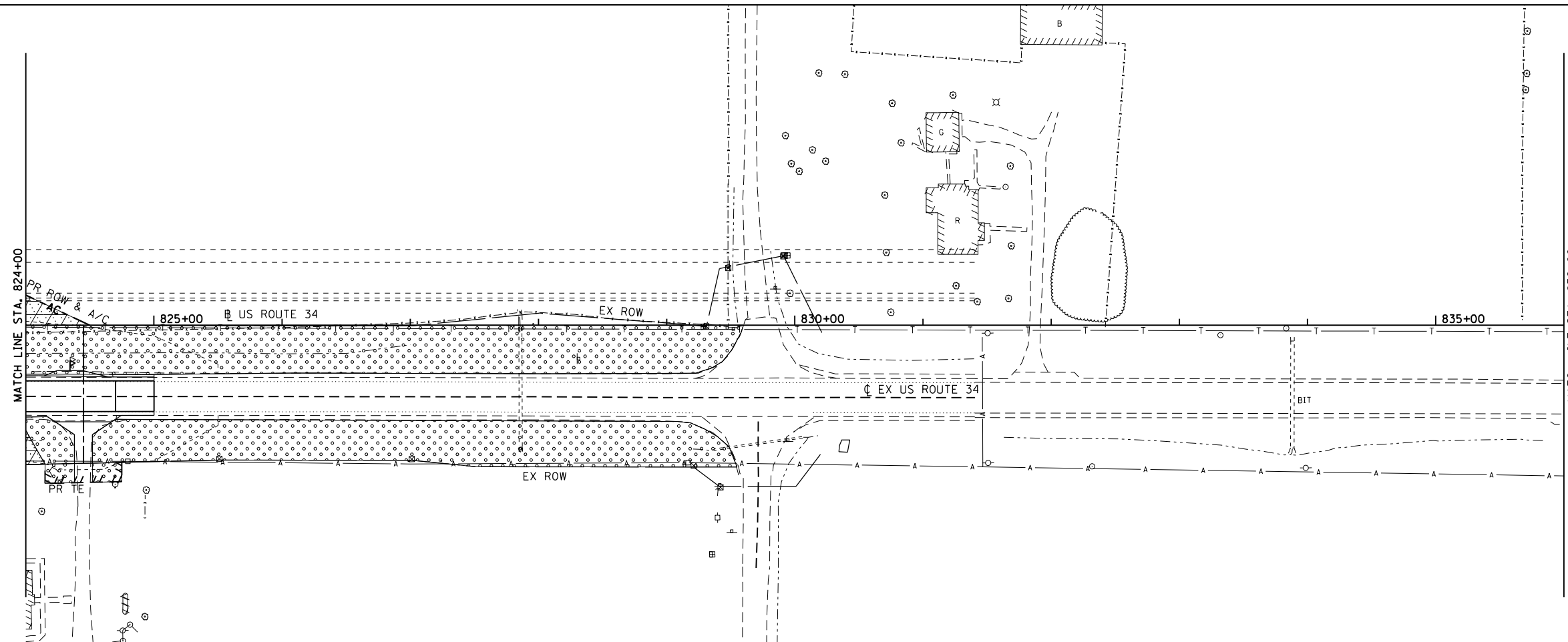
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	432
CONTRACT NO. 68409				







ILLINOIS FED. AID PROJECT

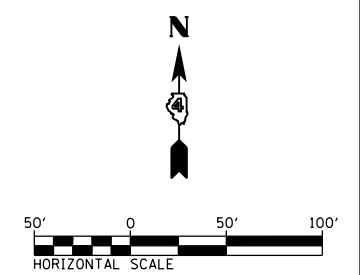




FILE NAME = D468409-SHT-13-LNDSCP-US34-13.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN US ROUTE 34</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 433
	PLOT SCALE = 100.0000' / 1in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 13 OF 27 SHEETS	STA. 800+00 TO STA. 824+00	CONTRACT NO. 68409		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/16/2012	DATE = 10/2012	REVISED -	REVISED -									



- LEGEND**
-  SEEDING CLASS 1A
  -  SEEDING CLASS 2A
  -  SEEDING CLASS 4A & 5A COMBINED
  -  PR SHADE TREE
  -  PR EVERGREEN TREE
  -  SHRUBS



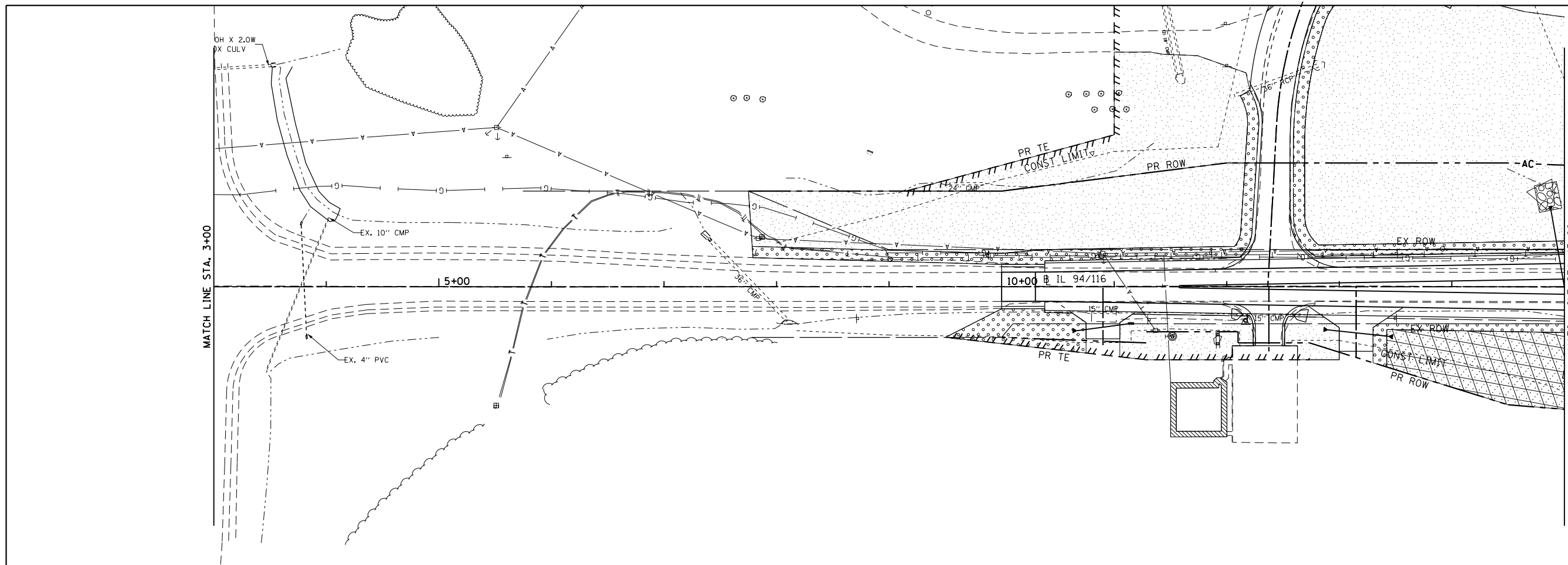
FILE NAME = D468409-SHT-14-LNDSCP-US34-14.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - CSB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -






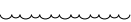
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

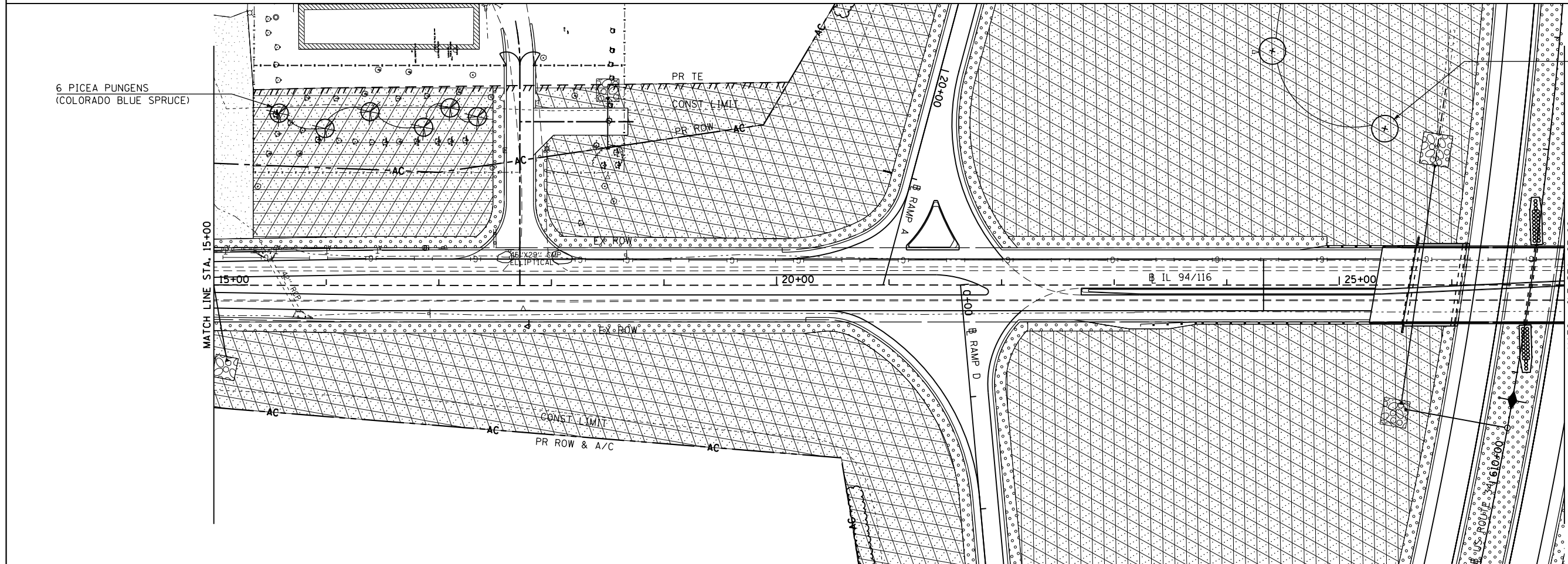
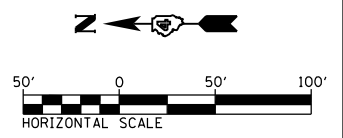
**LANDSCAPING PLAN  
US ROUTE 34**

SCALE: 1" = 50'    SHEET NO. 14 OF 27 SHEETS    STA. 824+00    TO STA. 836+00

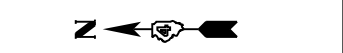
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	434
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				



- LEGEND**
-  SEEDING CLASS 1A
  -  SEEDING CLASS 2A
  -  SEEDING CLASS 4A & 5A COMBINED
  -  PR SHADE TREE
  -  PR EVERGREEN TREE
  -  SHRUBS



SEE US 34 LANDSCAPING PLANS FOR LANDSCAPING INFORMATION



FILE NAME = D468409-SHT-15-LNDSCP-IL94-01.dgn

USER NAME = zachl  
 PLOT SCALE = 100.0000' / 1" = 100'  
 PLOT DATE = 10/16/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

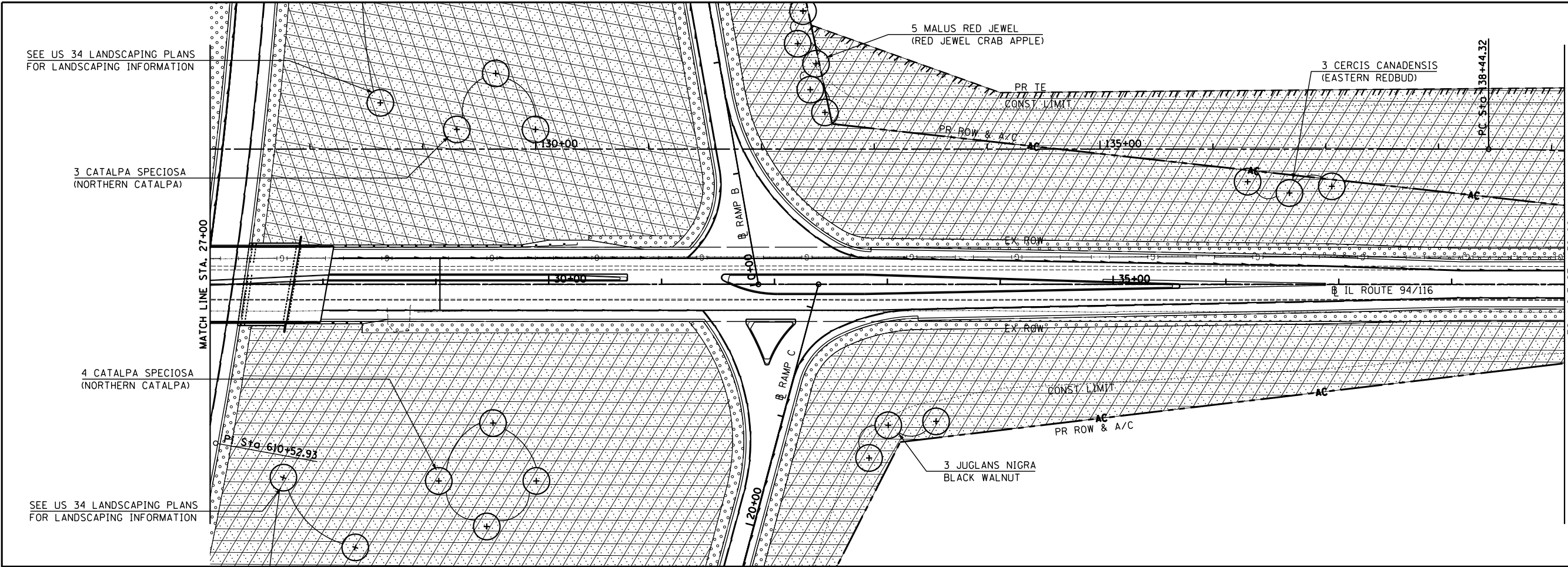
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 IL ROUTE 94 / 116**

SCALE: 1" = 50' SHEET NO. 15 OF 27 SHEETS STA. 3+00 TO STA. 27+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	435
CONTRACT NO. 68409				

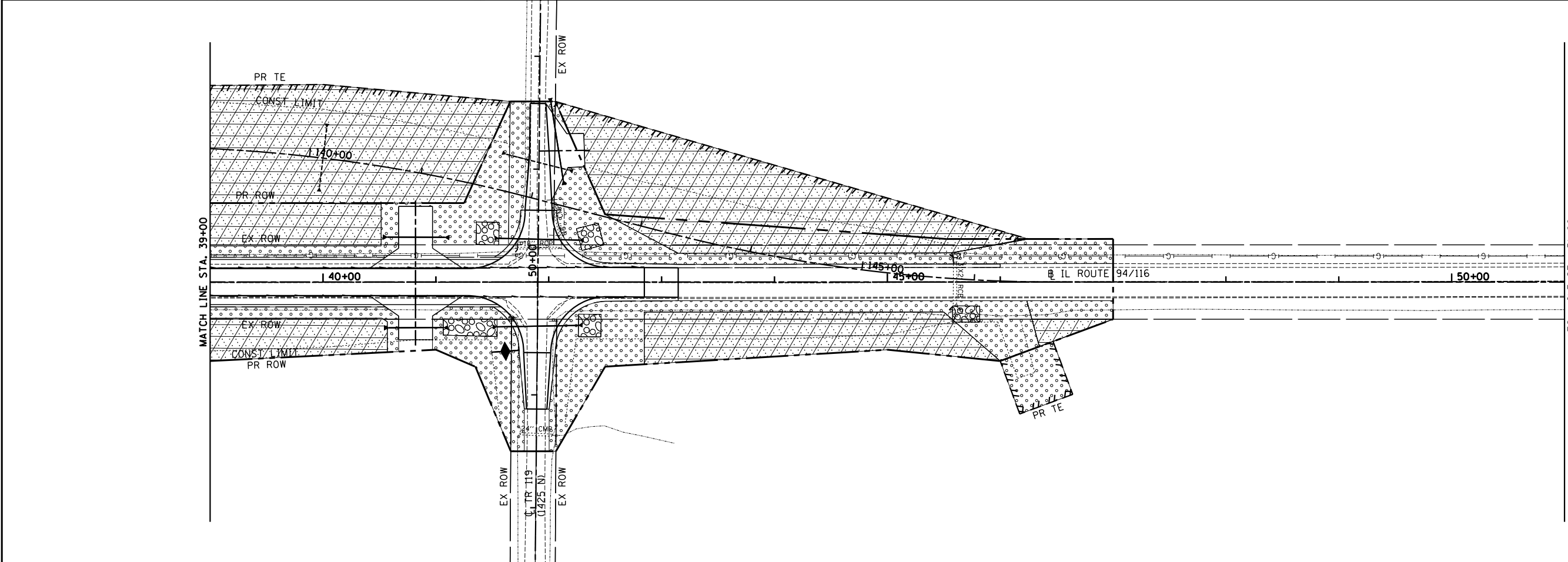
ILLINOIS FED. AID PROJECT



**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

**HORIZONTAL SCALE**  
50' 0 50' 100'



FILE NAME = D468409-SHT-16-LNDSCP-IL94-02.dgn  
 USER NAME = natal  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 11/14/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

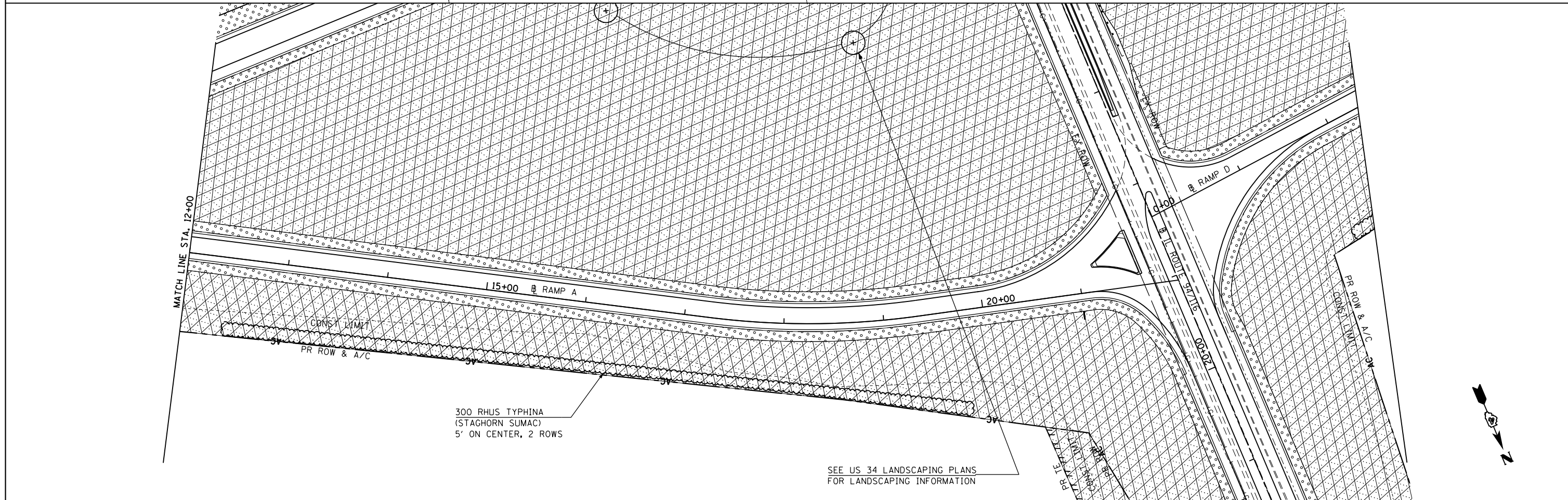
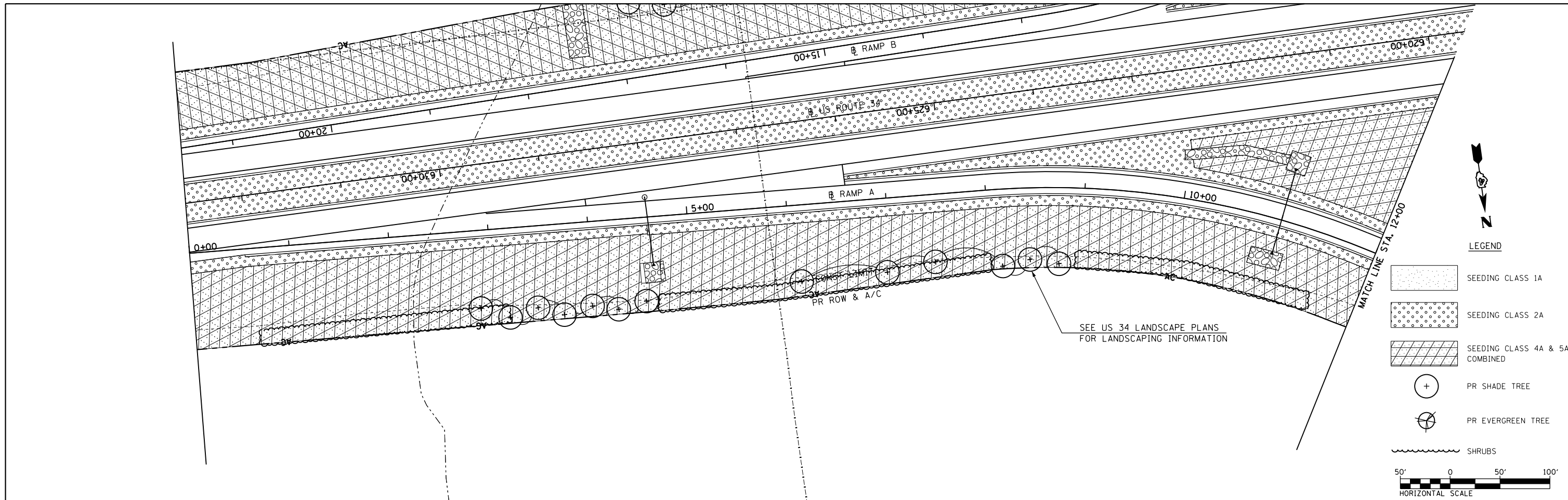
REVISED - -  
 REVISED - -  
 REVISED - -  
 REVISED - -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 IL ROUTE 94 / 116**

SCALE: 1" = 50'    SHEET NO. 16 OF 27 SHEETS    STA. 27+00    TO STA. 51+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	436
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				



FILE NAME = D468409-SHT-17-LNDSCP-RAMPA.dgn  
 USER NAME = zachl  
 PLOT SCALE = 100.0000' / 1" = 100'  
 PLOT DATE = 10/16/2012

DESIGNED - DBS  
 DRAWN - PSBA  
 CHECKED - CSB  
 DATE - 10/2012

REVISED -  
 REVISED -  
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 REVISED -

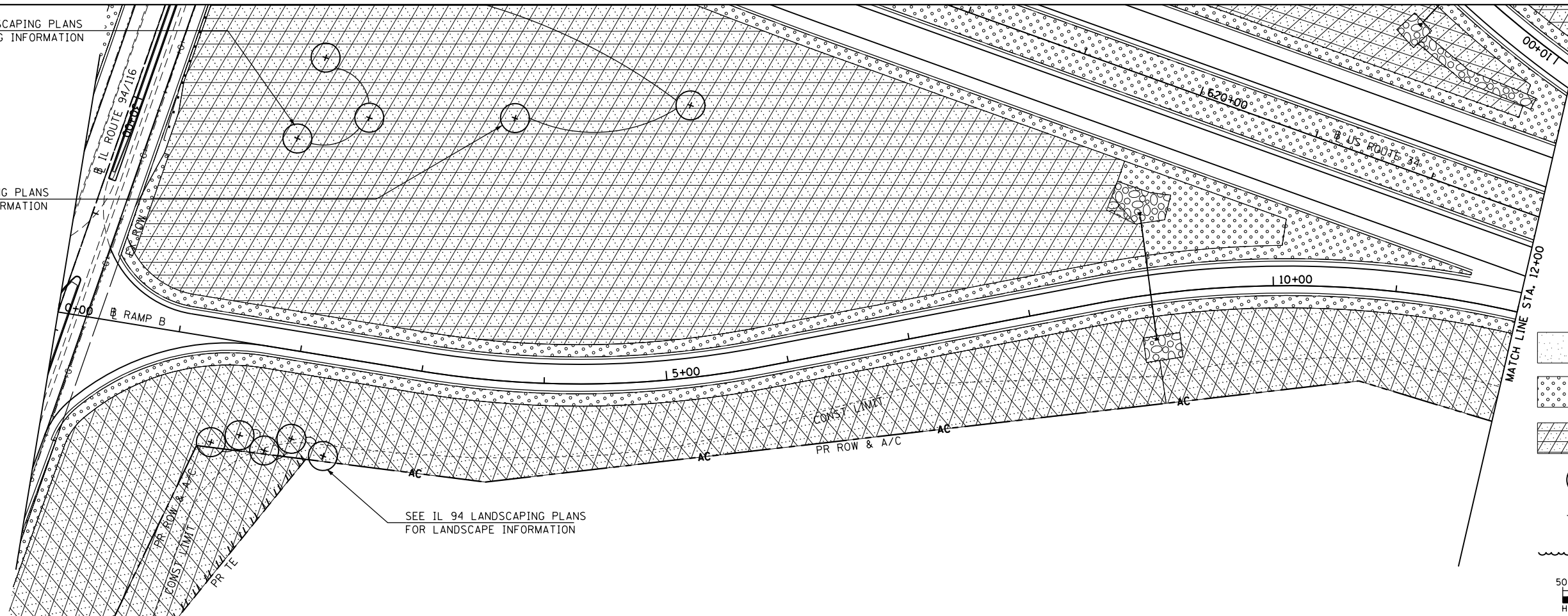
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 RAMP A**  
 SCALE: 1" = 50'  
 SHEET NO. 17 OF 27 SHEETS  
 STA. 0+00 TO STA. 21+98

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 437
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				


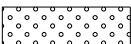




SEE IL 94 LANDSCAPING PLANS  
FOR LANDSCAPING INFORMATION

SEE US 34 LANDSCAPING PLANS  
FOR LANDSCAPING INFORMATION



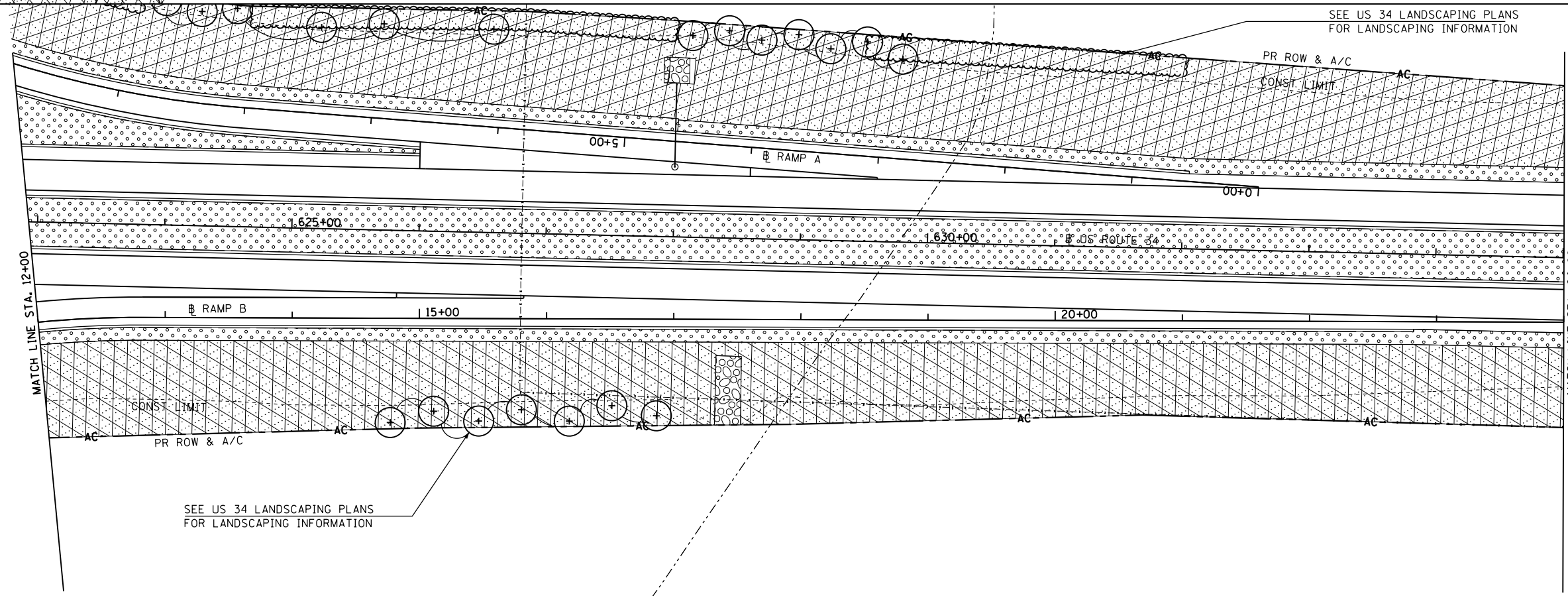
SEE IL 94 LANDSCAPING PLANS  
FOR LANDSCAPING INFORMATION

LEGEND

-  SEEDING CLASS 1A
-  SEEDING CLASS 2A
-  SEEDING CLASS 4A & 5A COMBINED
-  PR SHADE TREE
-  PR EVERGREEN TREE
-  SHRUBS



SEE US 34 LANDSCAPING PLANS  
FOR LANDSCAPING INFORMATION



SEE US 34 LANDSCAPING PLANS  
FOR LANDSCAPING INFORMATION

FILE NAME =  
D468409-SHT-18-LNDSCP-RAMPB.dgn

USER NAME = zachl  
PLOT SCALE = 100.0000' / 1" =  
PLOT DATE = 10/16/2012

DESIGNED - DBS  
DRAWN - PSBA  
CHECKED - CSB  
DATE - 10/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

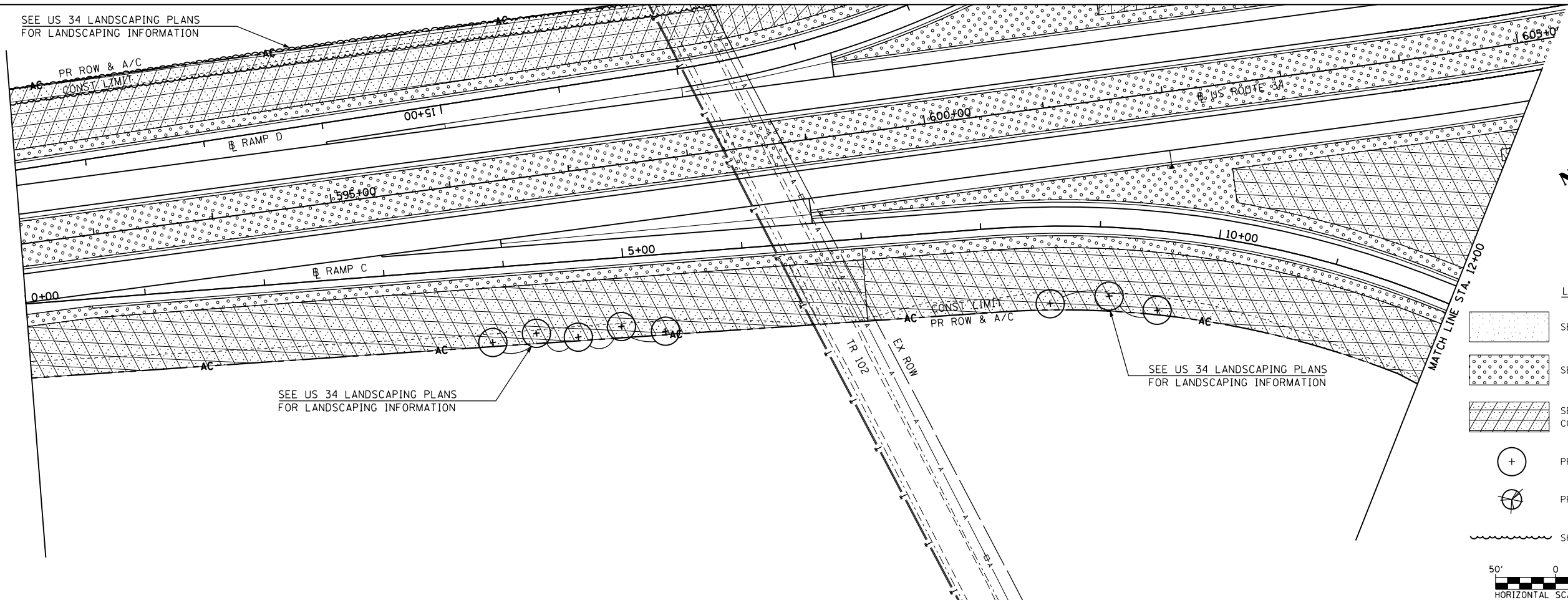
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
RAMP B

SCALE: 1" = 50' SHEET NO. 18 OF 27 SHEETS STA. 0+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	438
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

SEE US 34 LANDSCAPING PLANS FOR LANDSCAPING INFORMATION

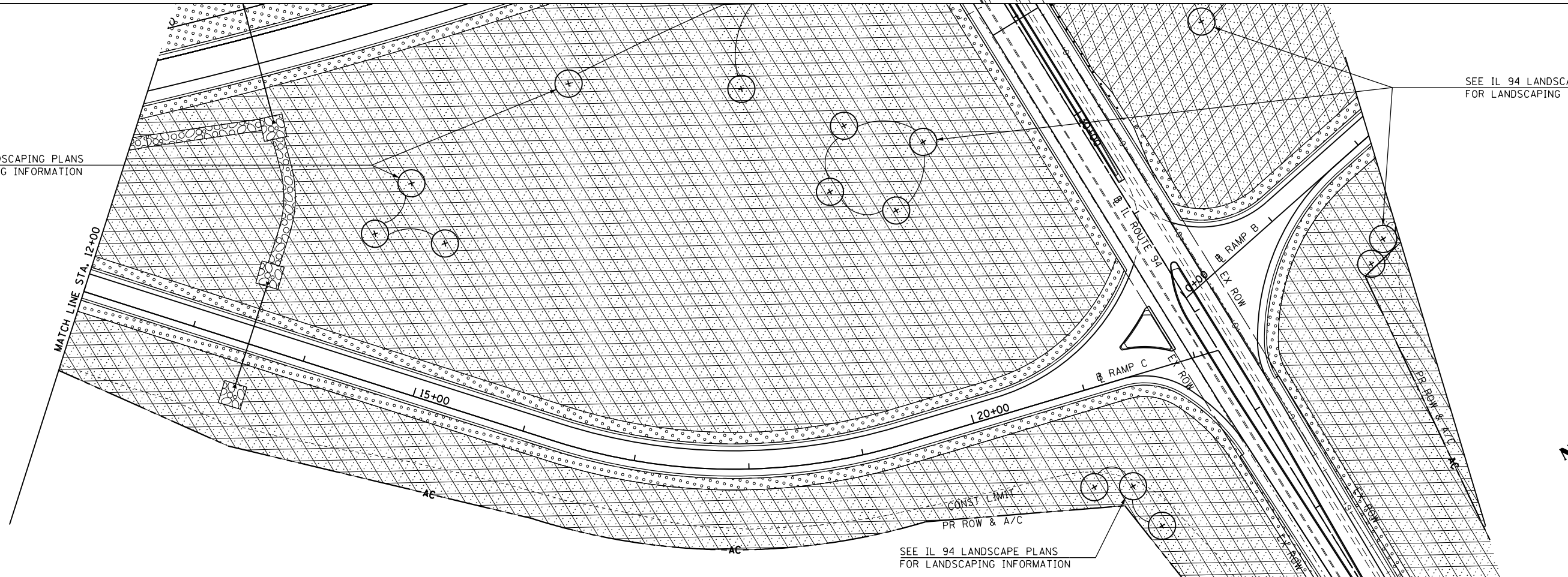


**LEGEND**

- SEEDING CLASS 1A
- SEEDING CLASS 2A
- SEEDING CLASS 4A & 5A COMBINED
- PR SHADE TREE
- PR EVERGREEN TREE
- SHRUBS

50' 0 50' 100'  
HORIZONTAL SCALE

SEE US 34 LANDSCAPING PLANS FOR LANDSCAPING INFORMATION



SEE IL 94 LANDSCAPING PLANS FOR LANDSCAPING INFORMATION

FILE NAME = D468409-SHT-19-LNDSCP-RAMPC.dgn

USER NAME = zachl  
PLOT SCALE = 100.0000' / 1" = 100'  
PLOT DATE = 10/16/2012

DESIGNED - DBS  
DRAWN - PSBA  
CHECKED - CSB  
DATE - 10/2012

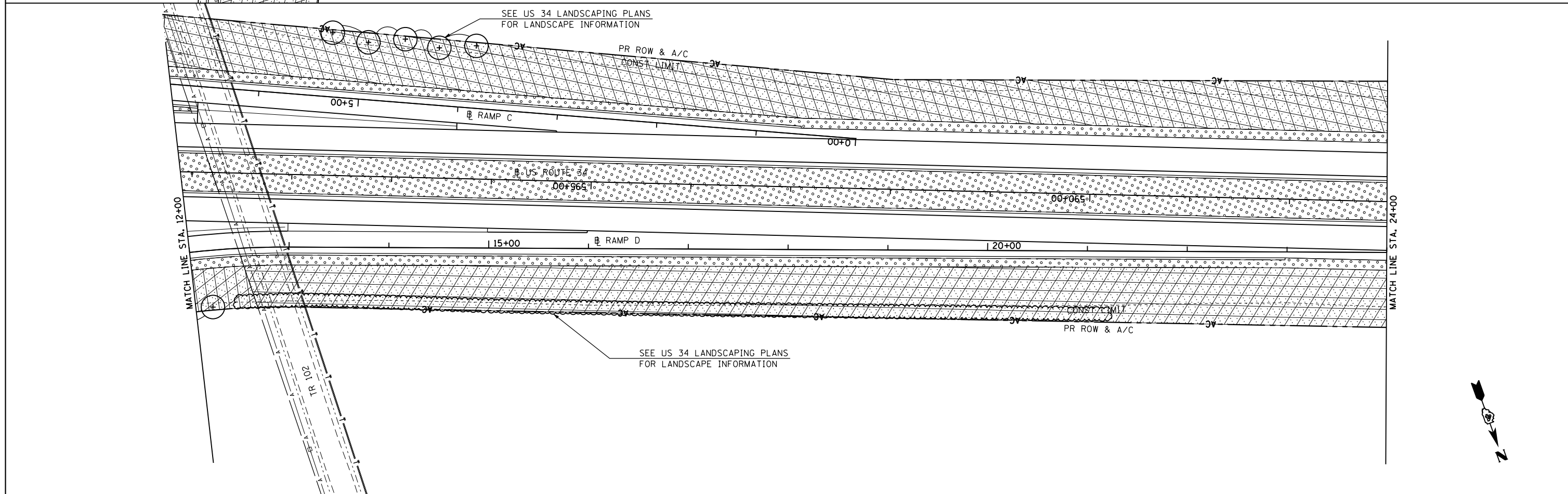
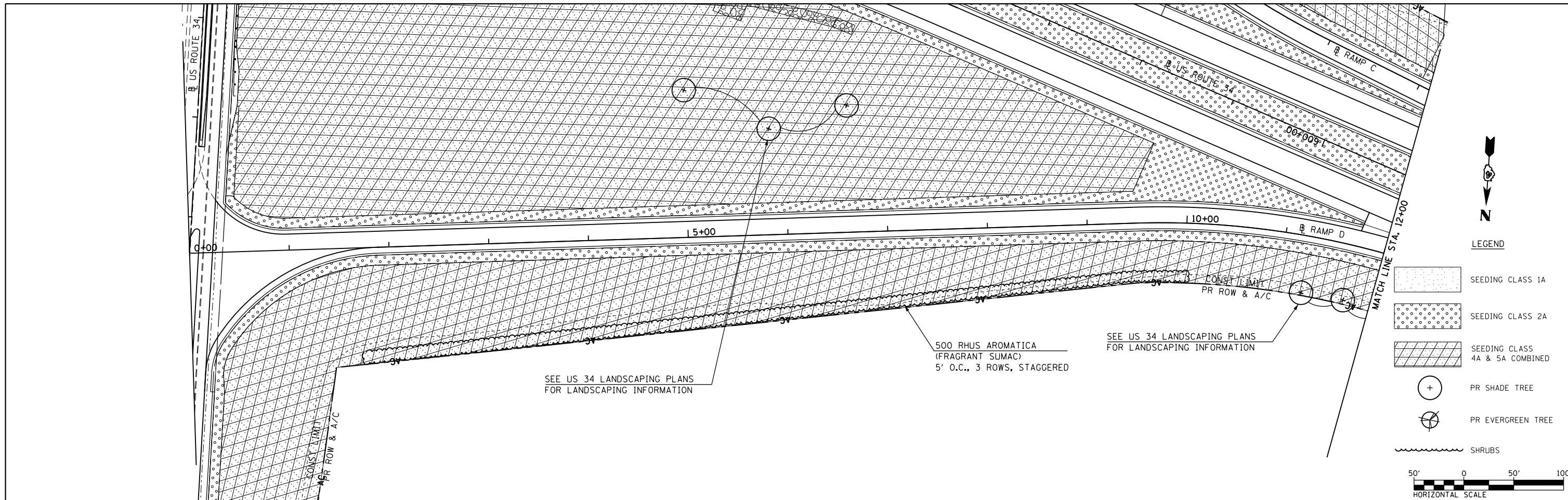
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
RAMP C**

SCALE: 1" = 50' SHEET NO. 19 OF 27 SHEETS STA. 0+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	439
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



FILE NAME = D468409-SHT-20-LNDSKP-RAMPD.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
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	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**


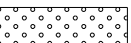




**LANDSCAPING PLAN  
RAMP D**

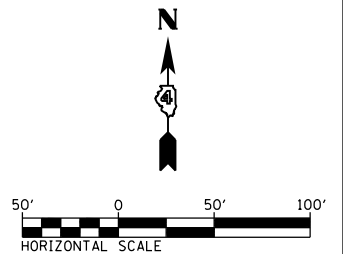
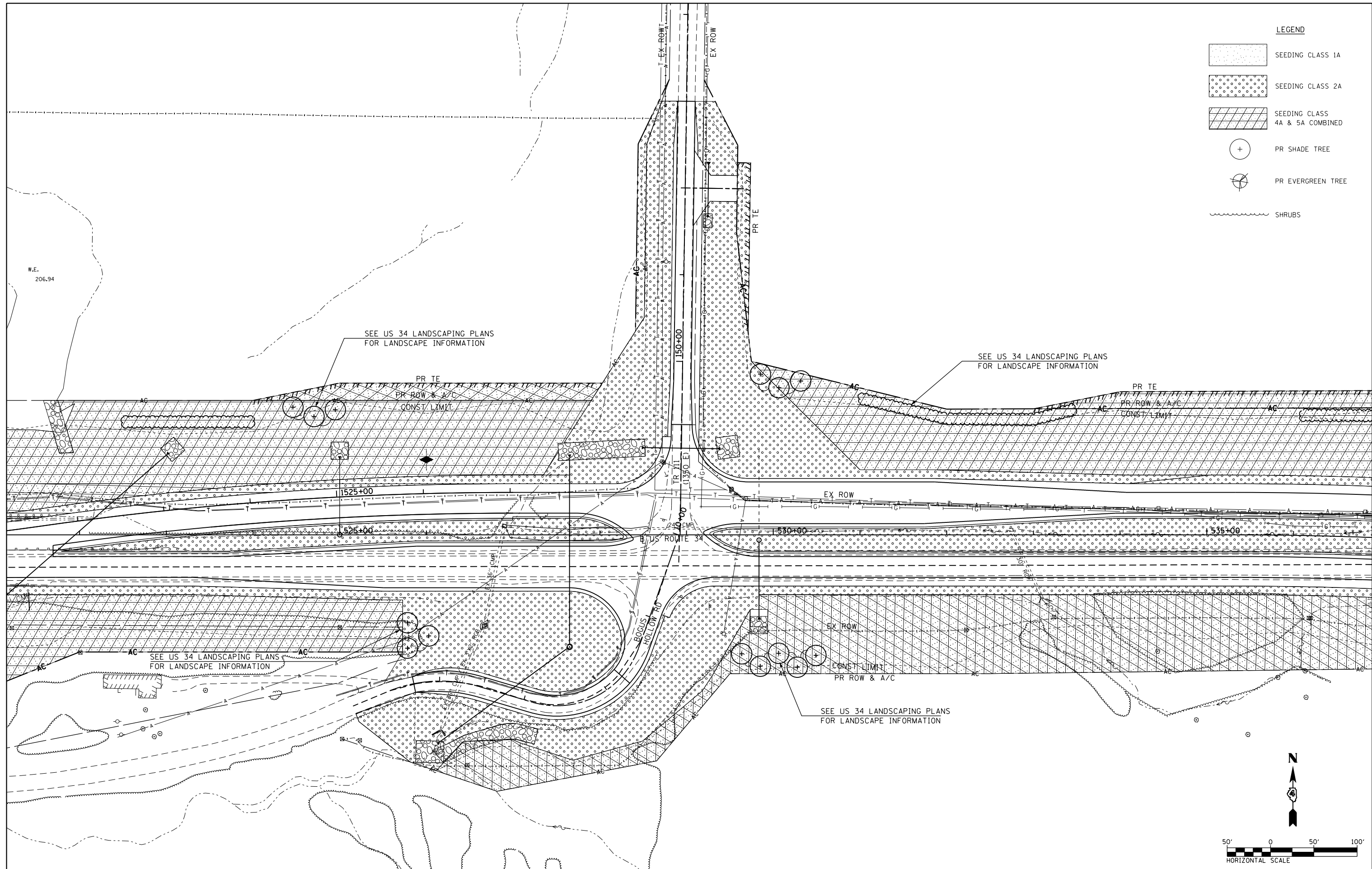
SCALE: 1" = 50'    SHEET NO. 20 OF 27 SHEETS    STA. 0+00    TO STA. 24+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 440
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	SEEDING CLASS 1A
	SEEDING CLASS 2A
	SEEDING CLASS 4A & 5A COMBINED
	PR SHADE TREE
	PR EVERGREEN TREE
	SHRUBS

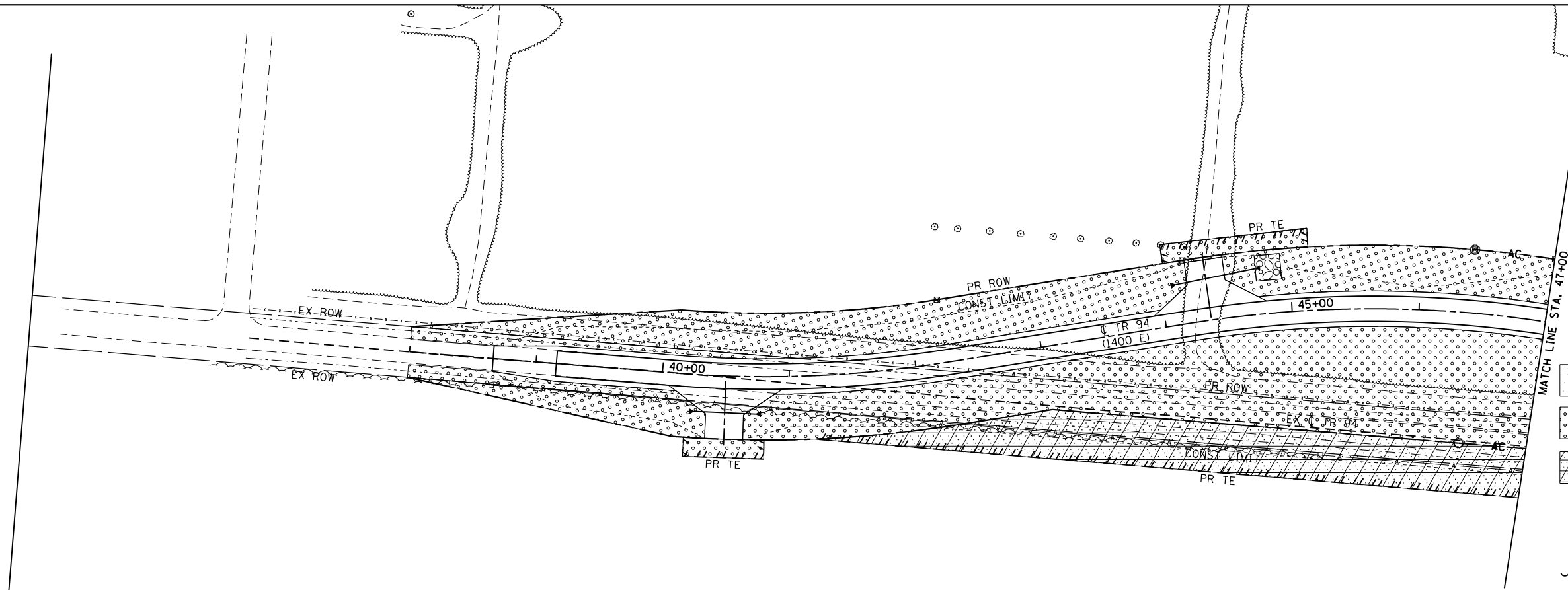


FILE NAME = D468409-SHT-21-LNDSCP-TR111-BHR.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / 1"	CHECKED - CSB	REVISED -
	PLOT DATE = 10/16/2012	DATE - 10/2012	REVISED -

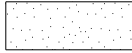
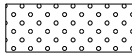
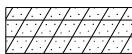



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LANDSCAPING PLAN</b>		
<b>TR 11 AND BOGUS HOLLOW ROAD (1350 E)</b>		
SCALE: 1" = 50'	SHEET NO. 21 OF 27 SHEETS	STA. 5+70 TO STA. 153+00

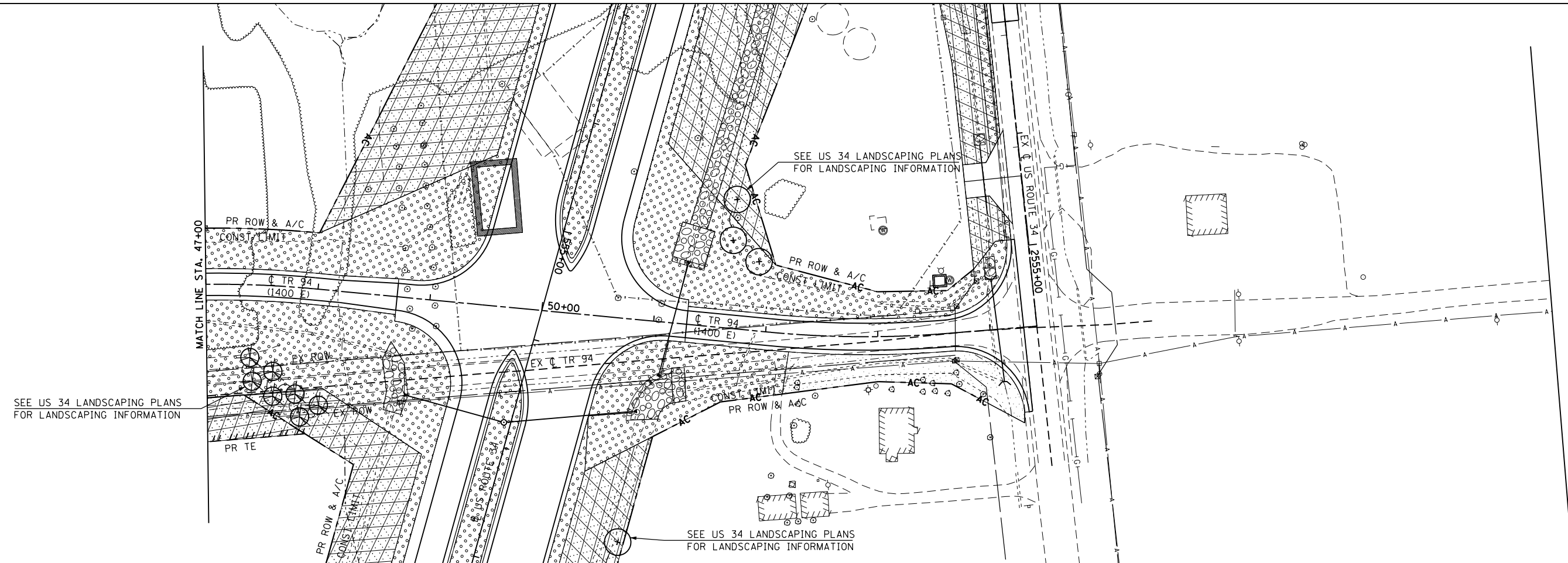
F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 441
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SEEDING CLASS 1A
-  SEEDING CLASS 2A
-  SEEDING CLASS 4A & 5A COMBINED
-  PR SHADE TREE
-  PR EVERGREEN TREE
-  SHRUBS

50' 0 50' 100'  
HORIZONTAL SCALE



QUANTITIES FOR SEEDING  
ALONG DETOUR 1 INCLUDED  
IN QUANTITIES FOR US 34



FILE NAME =  
D468409-SHT-22-LNDCSP-TR94.dgn

USER NAME = zachl  
PLOT SCALE = 100.0000' / 1" =  
PLOT DATE = 10/16/2012

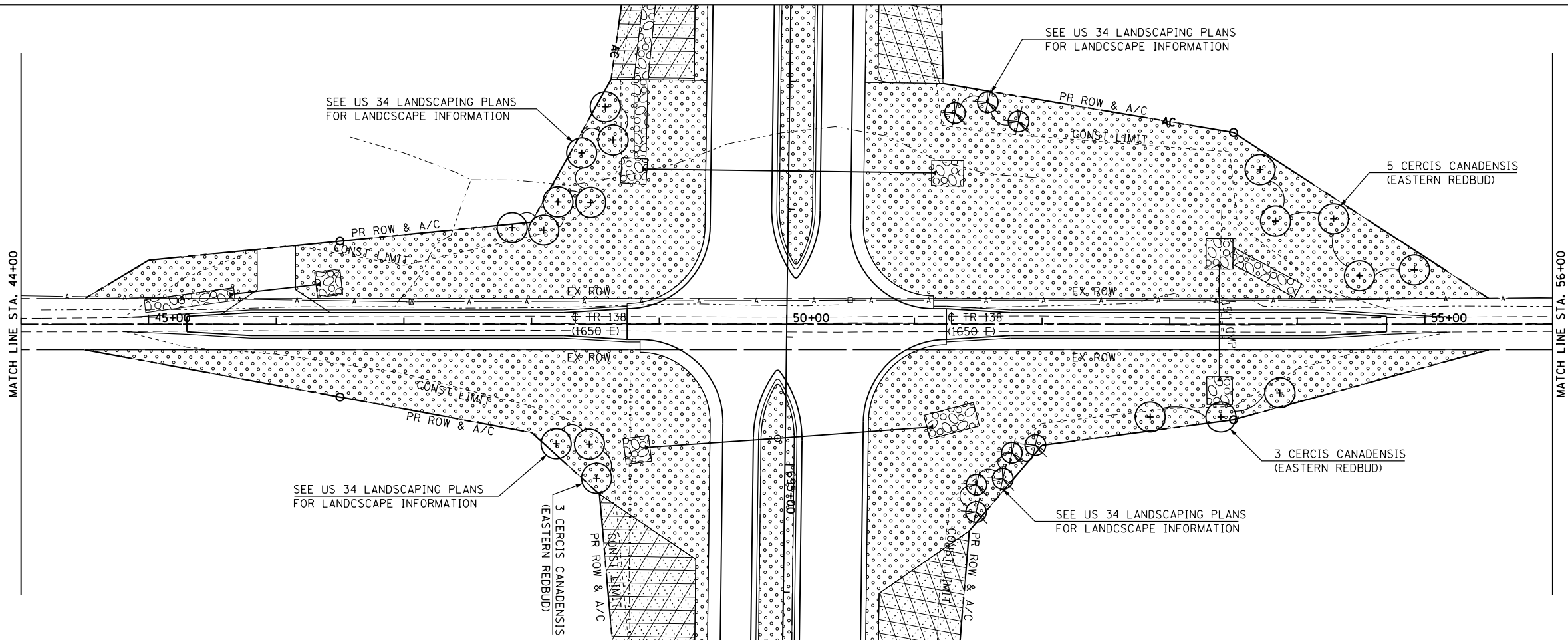
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DRAWN - PSBA  
CHECKED - CSB  
DATE - 10/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
TR 94 (1400 E)**  
SCALE: 1" = 50' SHEET NO. 22 OF 27 SHEETS STA. 38+00 TO STA. 54+42

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	442
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	SEEDING CLASS 1A
	SEEDING CLASS 2A
	SEEDING CLASS 4A & 5A COMBINED
	PR SHADE TREE
	PR EVERGREEN TREE
	SHRUBS

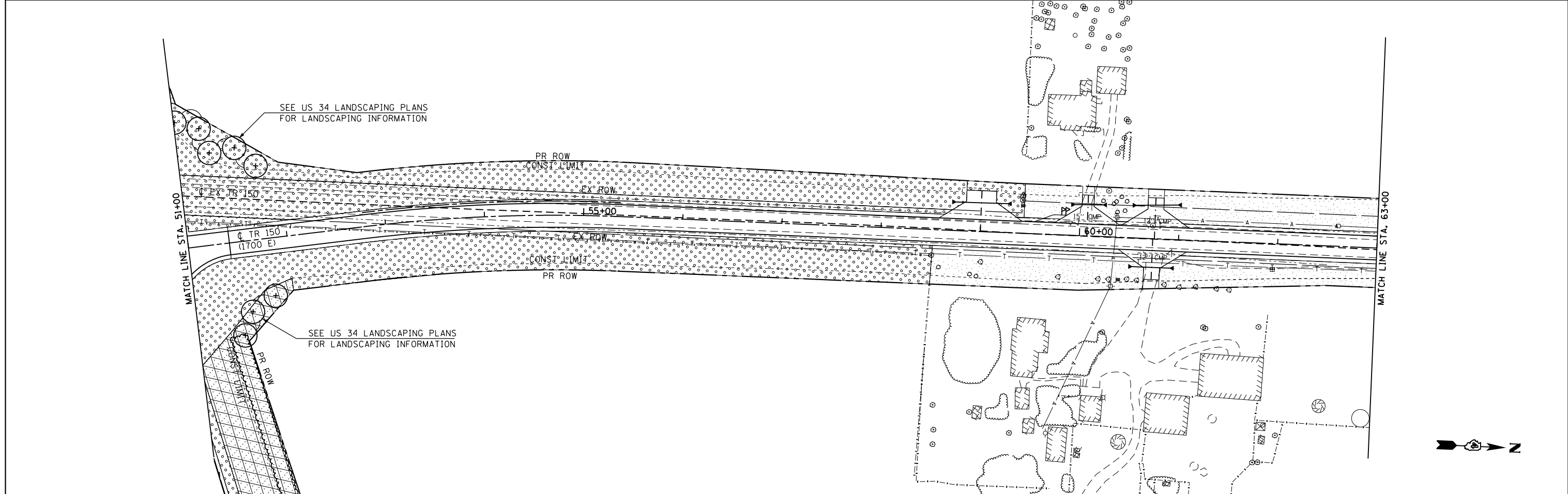
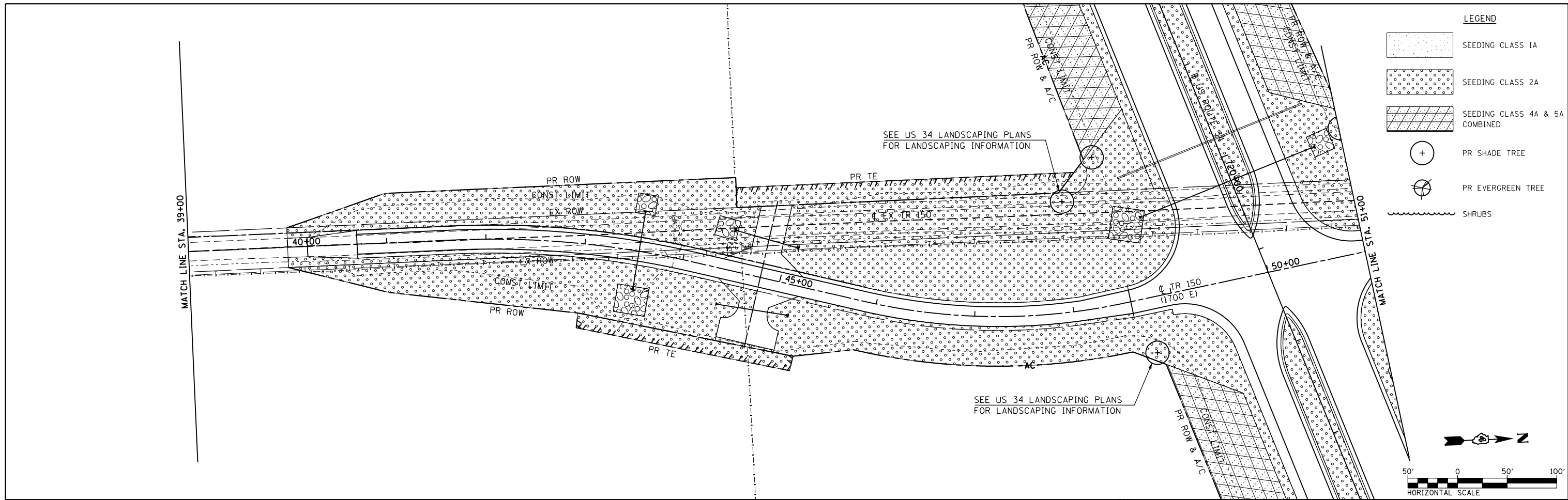
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		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

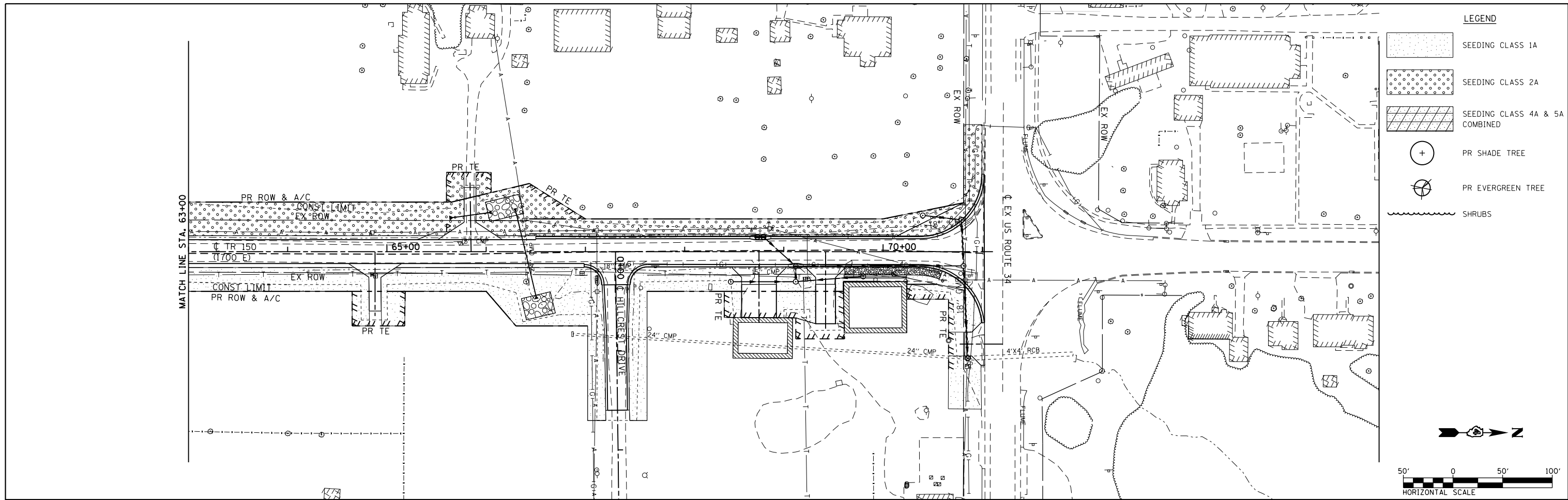
**LANDSCAPING PLAN  
TR 138 (1650 E)**

SCALE: 1" = 50'    SHEET NO. 23 OF 27 SHEETS    STA. 44+00    TO STA. 56+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 443
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



FILE NAME = D468409-SHT-24-LNDSKP-TR150-01.dgn	USER NAME = zach1	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN TR 150 (1700 E)</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 444
	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 24 OF 27 SHEETS	STA. 39+00 TO STA. 63+00	CONTRACT NO. 68409		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/16/2012	DATE = 10/2012	REVISED -	REVISED -									



FILE NAME =  
D468409-SHT-25-LNDSKP-TR150-02.dgn

USER NAME = zachl  
PLOT SCALE = 100.0000' / 1" = 100'  
PLOT DATE = 10/16/2012

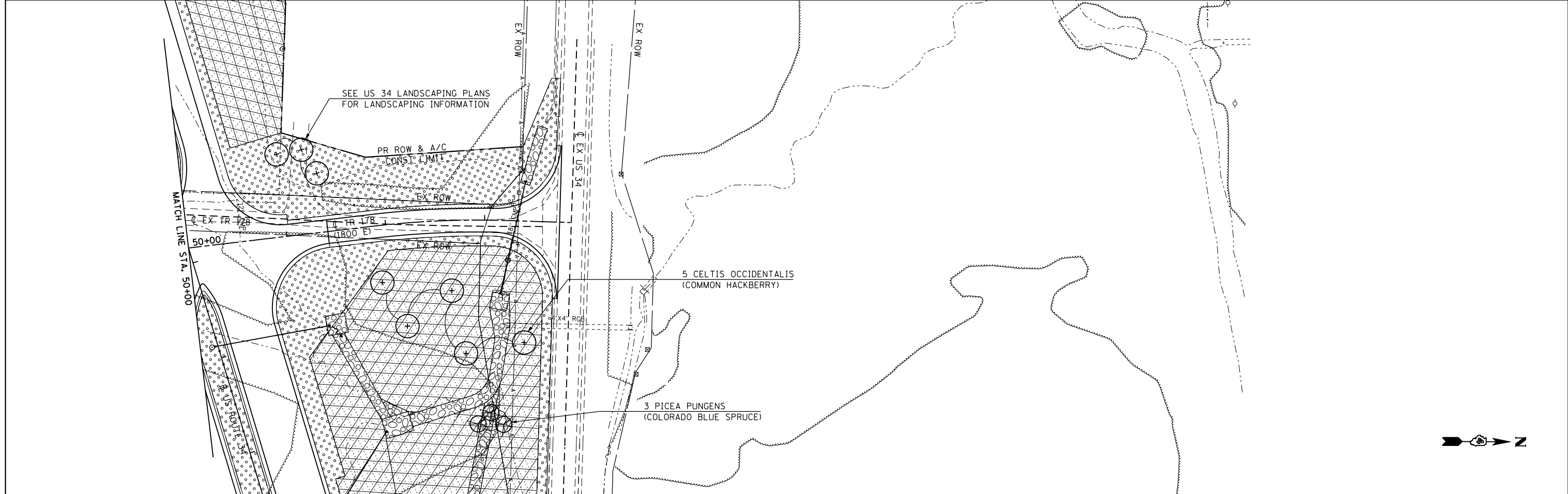
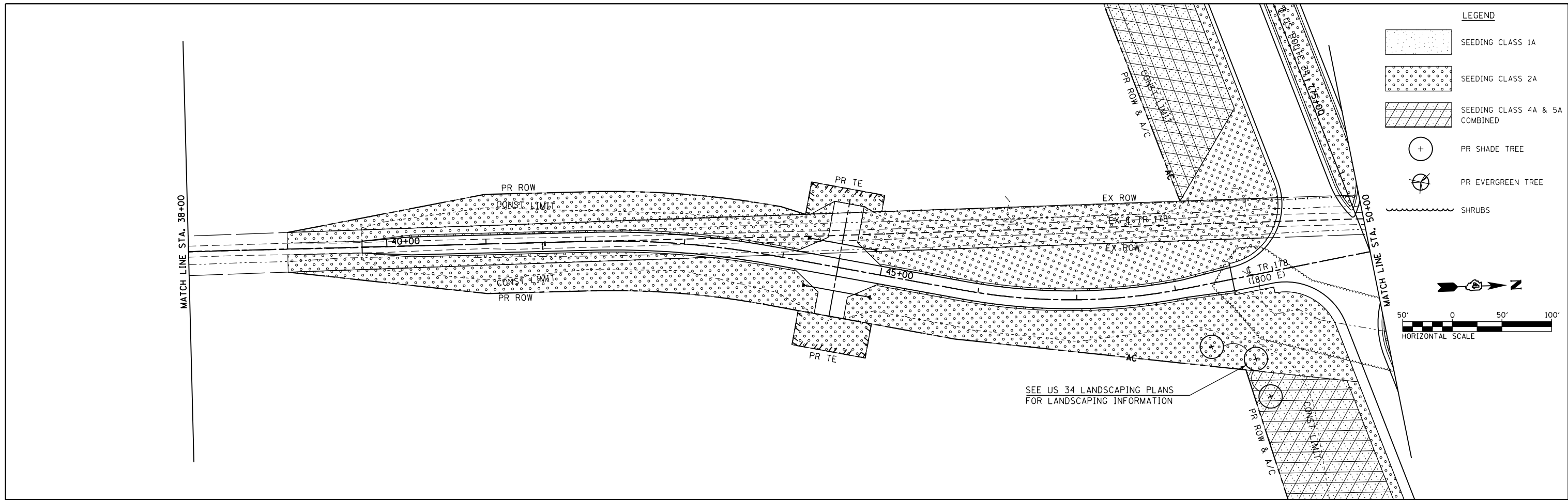
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CHECKED - CSB  
DATE - 10/2012

REVISED -  
REVISED -  
REVISED -  
REVISED -

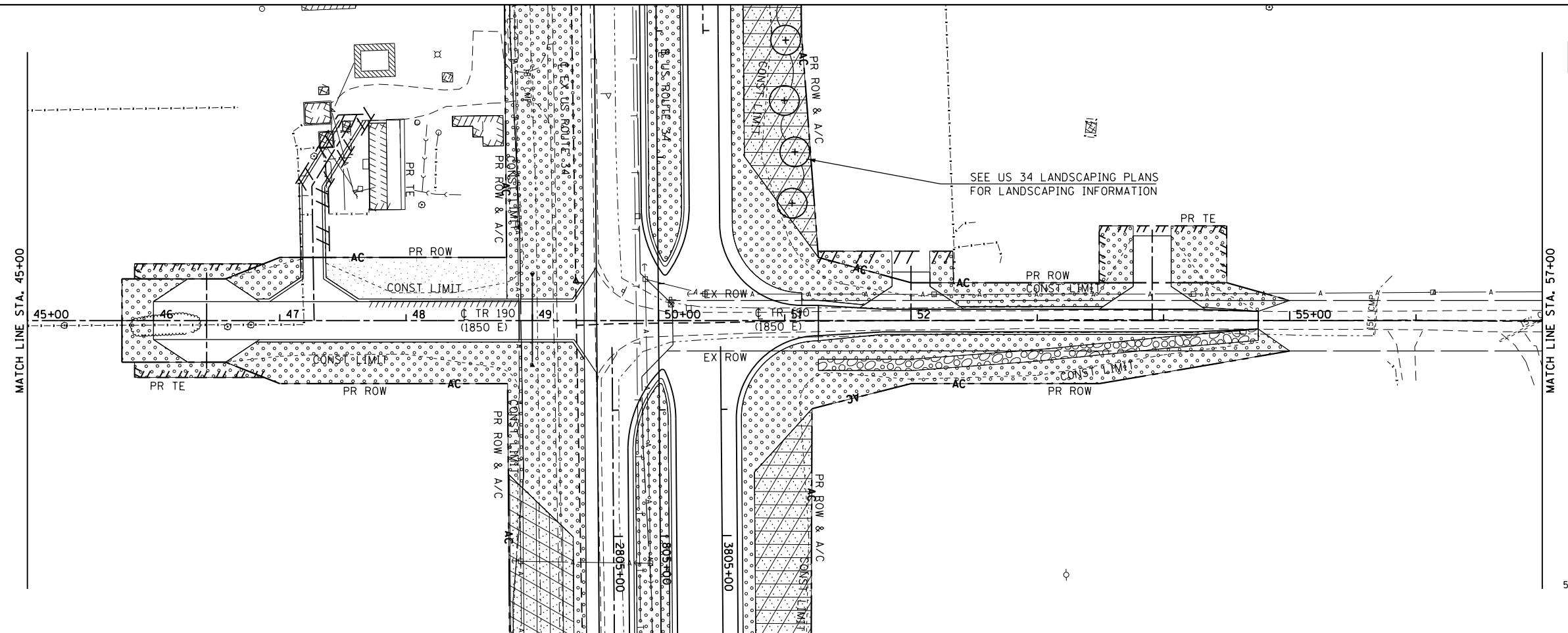
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
TR 150 (1700 E)**  
SCALE: 1" = 50' SHEET NO. 25 OF 27 SHEETS STA. 63+00 TO STA. 71+02

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	445
<b>CONTRACT NO. 68409</b>				
ILLINOIS FED. AID PROJECT				

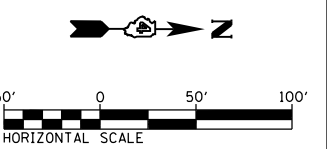


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	PLOT SCALE = 100.0000' / in.	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 26 OF 27 SHEETS	STA. 38+00 TO STA. 53+75	CONTRACT NO. 68409		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/16/2012	DATE = 10/2012	REVISED -	REVISED -									



**LEGEND**

	SEEDING CLASS 1A
	SEEDING CLASS 2A
	SEEDING CLASS 4A & 5A COMBINED
	PR SHADE TREE
	PR EVERGREEN TREE
	SHRUBS



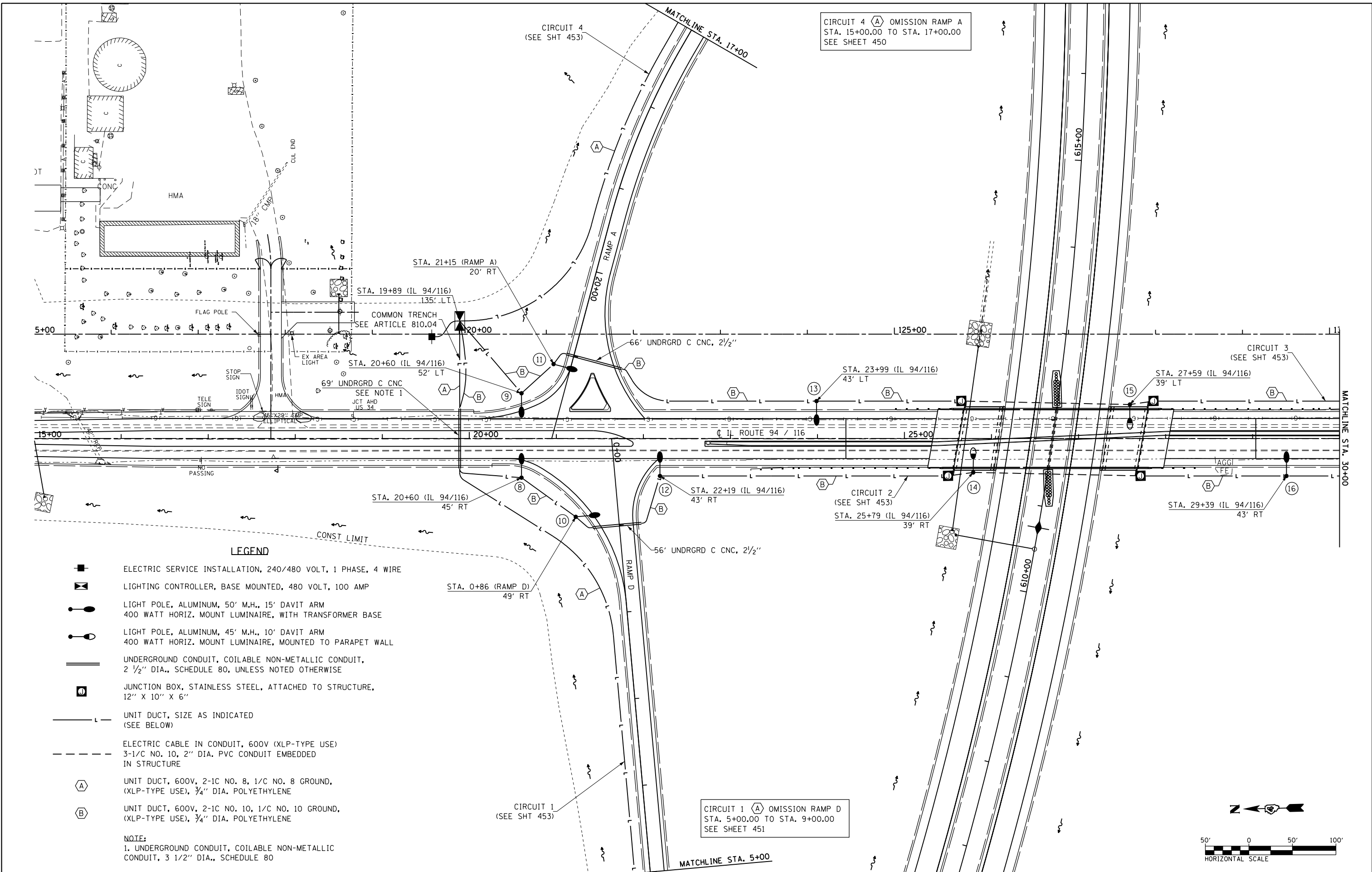
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		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
TR 190 (1850 E)**

SCALE: 1" = 50'    SHEET NO. 27 OF 27 SHEETS    STA. 45+00    TO STA. 57+00

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 447
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



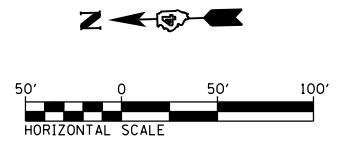
CIRCUIT 4 (A) OMISSION RAMP A  
 STA. 15+00.00 TO STA. 17+00.00  
 SEE SHEET 450

CIRCUIT 1 (A) OMISSION RAMP D  
 STA. 5+00.00 TO STA. 9+00.00  
 SEE SHEET 451

**LEGEND**

- ELECTRIC SERVICE INSTALLATION, 240/480 VOLT, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP
- LIGHT POLE, ALUMINUM, 50' M.H., 15' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, WITH TRANSFORMER BASE
- LIGHT POLE, ALUMINUM, 45' M.H., 10' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, MOUNTED TO PARAPET WALL
- ══ UNDERGROUND CONDUIT, COILABLE NON-METALLIC CONDUIT,  
2 1/2" DIA., SCHEDULE 80, UNLESS NOTED OTHERWISE
- ⊠ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE,  
12" X 10" X 6"
- UNIT DUCT, SIZE AS INDICATED  
(SEE BELOW)
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE)  
3-1/C NO. 10, 2" DIA. PVC CONDUIT EMBEDDED  
IN STRUCTURE
- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

**NOTE:**  
 1. UNDERGROUND CONDUIT, COILABLE NON-METALLIC  
 CONDUIT, 3 1/2" DIA., SCHEDULE 80



FILE NAME = D468409-PLAN-LIGHTING-IL94-SHT1.dgn	USER NAME = danw	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - CSB	REVISED -
	PLOT DATE = 11/12/2012	DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
 IL ROUTE 94 / 116**

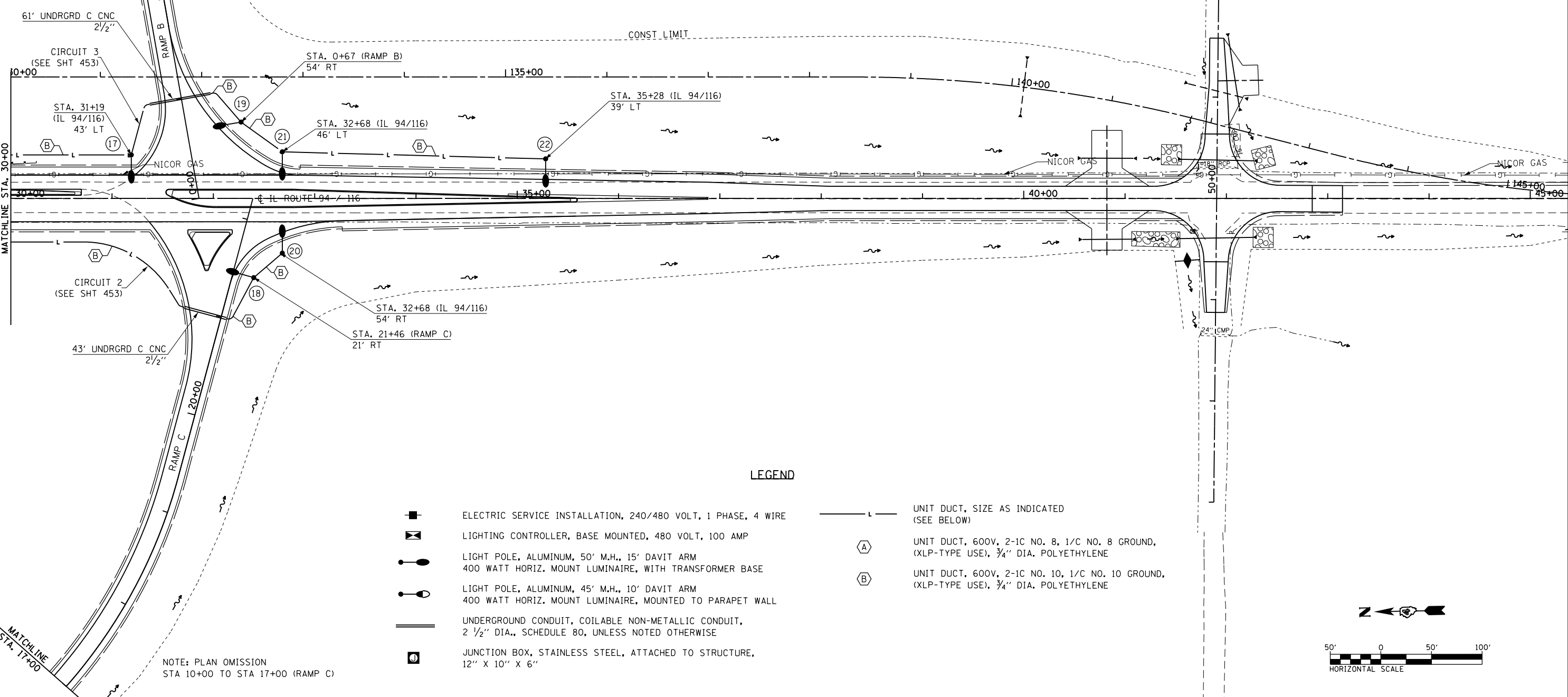
SCALE: 1" = 50'    SHEET NO. 1 OF 6 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	448
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



MATCHLINE  
STA. 5+00

NOTE: PLAN OMISSION  
STA 5+00 TO STA 9+00 (RAMP B)



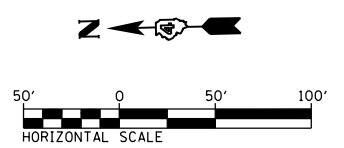
MATCHLINE STA. 30+00

MATCHLINE  
STA. 17+00

NOTE: PLAN OMISSION  
STA 10+00 TO STA 17+00 (RAMP C)

LEGEND

- ELECTRIC SERVICE INSTALLATION, 240/480 VOLT, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP
- LIGHT POLE, ALUMINUM, 50' M.H., 15' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, WITH TRANSFORMER BASE
- LIGHT POLE, ALUMINUM, 45' M.H., 10' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, MOUNTED TO PARAPET WALL
- UNDERGROUND CONDUIT, COILABLE NON-METALLIC CONDUIT,  
2 1/2" DIA., SCHEDULE 80, UNLESS NOTED OTHERWISE
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE,  
12" X 10" X 6"
- UNIT DUCT, SIZE AS INDICATED  
(SEE BELOW)
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



FILE NAME = D468409-PLAN-LIGHTING-IL94-SHT2.dgn	USER NAME = danw	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - CSB	REVISED -
	PLOT DATE = 11/12/2012	DATE - 10/2012	REVISED -

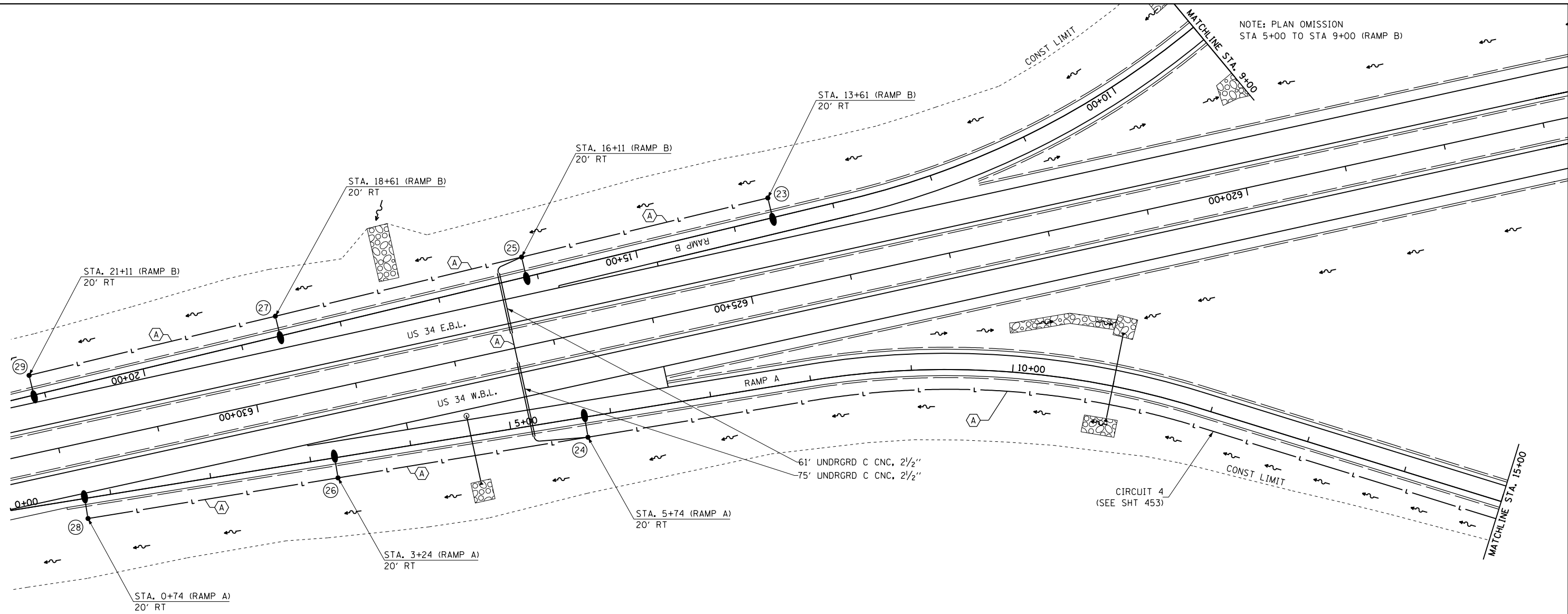
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
IL ROUTE 94 / 116**

SCALE: 1" = 50'    SHEET NO. 2 OF 6 SHEETS    STA.    TO STA.







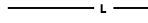


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	449
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

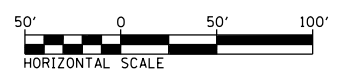
NOTE: PLAN OMISSION  
STA 5+00 TO STA 9+00 (RAMP B)



CIRCUIT 4 (A) OMISSION RAMP A  
STA. 15+00.00 TO STA. 17+00.00  
SEE SHEET 448

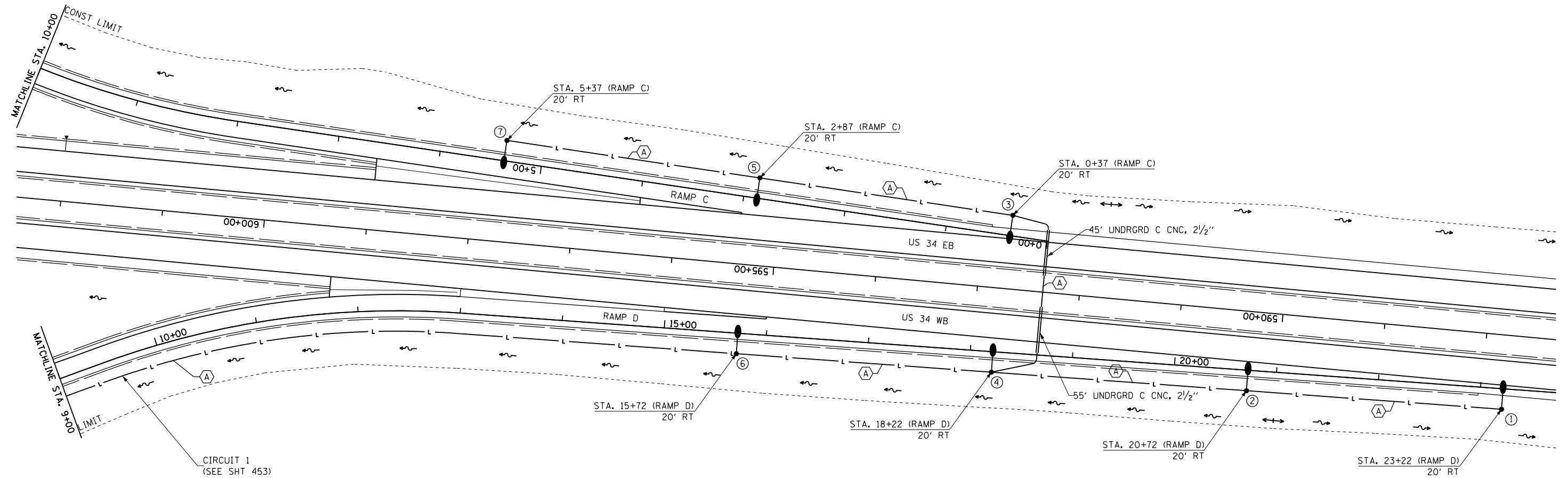
**LEGEND**

-  ELECTRIC SERVICE INSTALLATION, 240/480 VOLT, 1 PHASE, 4 WIRE
-  LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP
-  LIGHT POLE, ALUMINUM, 50' M.H., 15' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, WITH TRANSFORMER BASE
-  LIGHT POLE, ALUMINUM, 45' M.H., 10' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, MOUNTED TO PARAPET WALL
-  UNDERGROUND CONDUIT, COILABLE NON-METALLIC CONDUIT,  
2 1/2" DIA., SCHEDULE 80, UNLESS NOTED OTHERWISE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE,  
12" X 10" X 6"
-  UNIT DUCT, SIZE AS INDICATED  
(SEE BELOW)
-  UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
-  UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



FILE NAME = D468409-PLAN-LIGHTIN-RAMPA-SHT1.dgn	USER NAME = danw	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING PLAN RAMP A &amp; RAMP B</b>			F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 450
	PLOT SCALE = 100.0000' / 1" =	CHECKED - CSB	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 68409			
	PLOT DATE = 11/12/2012	DATE - 10/2012	REVISED -		ILLINOIS FED. AID PROJECT							










NOTE: PLAN OMISSION  
 STA 10+00 TO STA 17+00 (RAMP C)

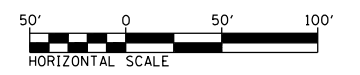


CIRCUIT 1  
 (SEE SHT 453)

CIRCUIT 1 (A) OMISSION RAMP D  
 STA. 5+00.00 TO STA. 9+00.00  
 SEE SHEET 448

LEGEND

-  ELECTRIC SERVICE INSTALLATION, 240/480 VOLT, 1 PHASE, 4 WIRE
-  LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP
-  LIGHT POLE, ALUMINUM, 50' M.H., 15' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, WITH TRANSFORMER BASE
-  LIGHT POLE, ALUMINUM, 45' M.H., 10' DAVIT ARM  
400 WATT HORIZ. MOUNT LUMINAIRE, MOUNTED TO PARAPET WALL
-  UNDERGROUND CONDUIT, COILABLE NON-METALLIC CONDUIT,  
2 1/2" DIA., SCHEDULE 80, UNLESS NOTED OTHERWISE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE,  
12" X 10" X 6"
-  UNIT DUCT, SIZE AS INDICATED  
(SEE BELOW)
-  UNIT DUCT, 600 V, 2-1C NO. 8, 1/C NO. 8 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
-  UNIT DUCT, 600 V, 2-1C NO. 10, 1/C NO. 10 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



FILE NAME = D468409-PLAN-LIGHTING-RAMPD-SHT1.dgn	USER NAME = danw	DESIGNED - DBS	REVISED -
		DRAWN - PSBA	REVISED -
		CHECKED - CSB	REVISED -
		DATE - 10/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN  
 RAMP C & RAMP D

SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2 ; 6-1	HENDERSON	976	451
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

**GENERAL LIGHTING NOTES**

- ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. CONCRETE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 836001. WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE SLOTTED HOLES IN THE POLE BASE PLATE.
- THE CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRIC SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN PROPOSED LIGHT POLE LOCATIONS AND EXISTING UTILITY LINES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION, ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNIT DUCT OR UNDERGROUND CONDUIT PAY ITEM.
- INSTALL HORIZONTAL MOUNT LUMINAIRES PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY AS REQUIRED BY ARTICLE 821.04 OF THE STANDARD SPECIFICATIONS.
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, SHALL BE SCHEDULE 80 AS NOTED IN THE PLANS.
- POLE FOUNDATIONS SHALL BE INSTALLED 20 FT. FROM THE EDGE OF PAVEMENT. NO POLES SHALL BE INSTALLED IN THE FLOWLINE OF A DITCH.
- LIGHTING CONTROLLER SHALL BE EQUIPPED WITH CONVENIENCE RECEPTACLE AND CABINET LIGHT PER ARTICLE 1068.01 (e)(7).

**400W LUMINAIRE PERFORMANCE TABLE**

**GIVEN CONDITIONS**

ROADWAY DATA	
PAVEMENT WIDTH	16 FT
NUMBER OF LANES	1
MEDIAN WIDTH	N/A
IES SURFACE CLASSIFICATION	R3
0-ZERO VALUE	0.07
LIGHT POLE DATA	
MOUNTING HEIGHT	50 FT
DAVIT ARM LENGTH	15 FT
POLE SET BACK FROM EDGE OF PAVEMENT	20 FT
LUMINAIRE DATA	
LAMP TYPE	HPS
LAMP LUMENS	50,000
IES VERTICAL DISTRIBUTION	M
IES CONTROL OF DISTRIBUTION	FC
IES LATERAL DISTRIBUTION	3
TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA	
SPACING	250 FT
CONFIGURATION	Single Sided
LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-5 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

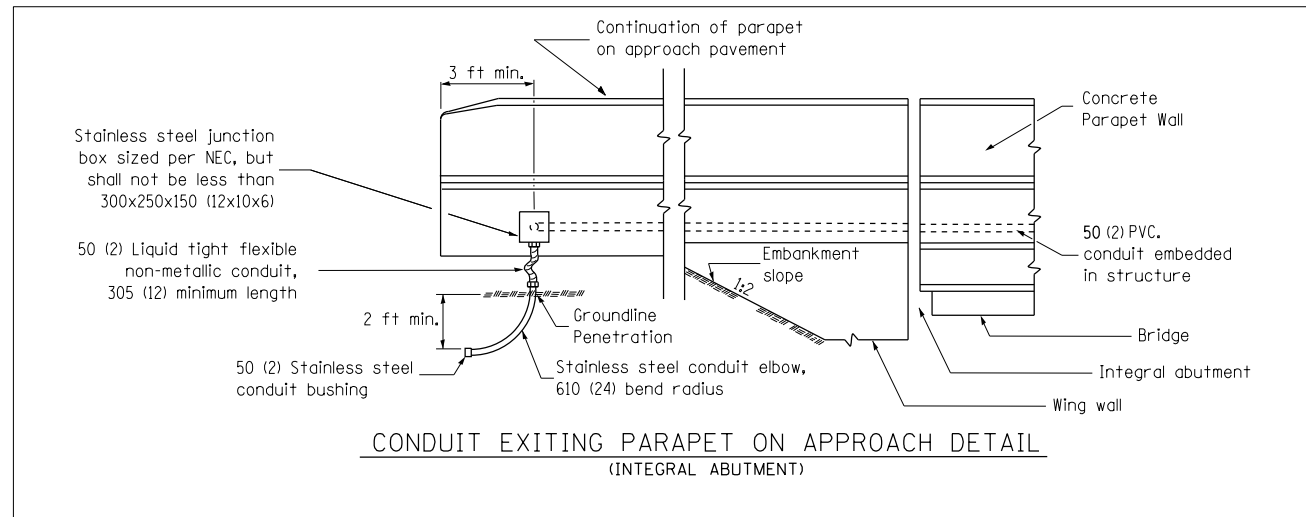
**PERFORMANCE REQUIREMENTS**

NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

ILLUMINATION	
AVERAGE HORIZONTAL ILLUMINATION (E <sub>AVE</sub> )	0.9 fc
UNIFORMITY RATIO (E <sub>AVE</sub> / E <sub>MIN</sub> )	3.0
LUMINANCE	
AVERAGE LUMINANCE (L <sub>AVE</sub> )	0.6 Cd/m <sup>2</sup>
UNIFORMITY RATIOS (L <sub>AVE</sub> / L <sub>MIN</sub> )	3.5
(L <sub>MAX</sub> / L <sub>MIN</sub> )	6.0
MAXIMUM VEILING LUMINANCE RATIO (L <sub>v</sub> / L <sub>AVE</sub> )	0.30

**TOTAL BILL OF MATERIALS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY TOTALS
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028760	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	462
81028780	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3 1/2" DIA.	FOOT	69
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	440
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
81603000	UNIT DUCT, 600V, 2-1/C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	6,332
81603010	UNIT DUCT, 600V, 2-1/C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	3,040
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	462
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	29
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
83003400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM	EACH	2
83004600	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	27
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	189
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE	EACH	27
X8110522	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	40



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

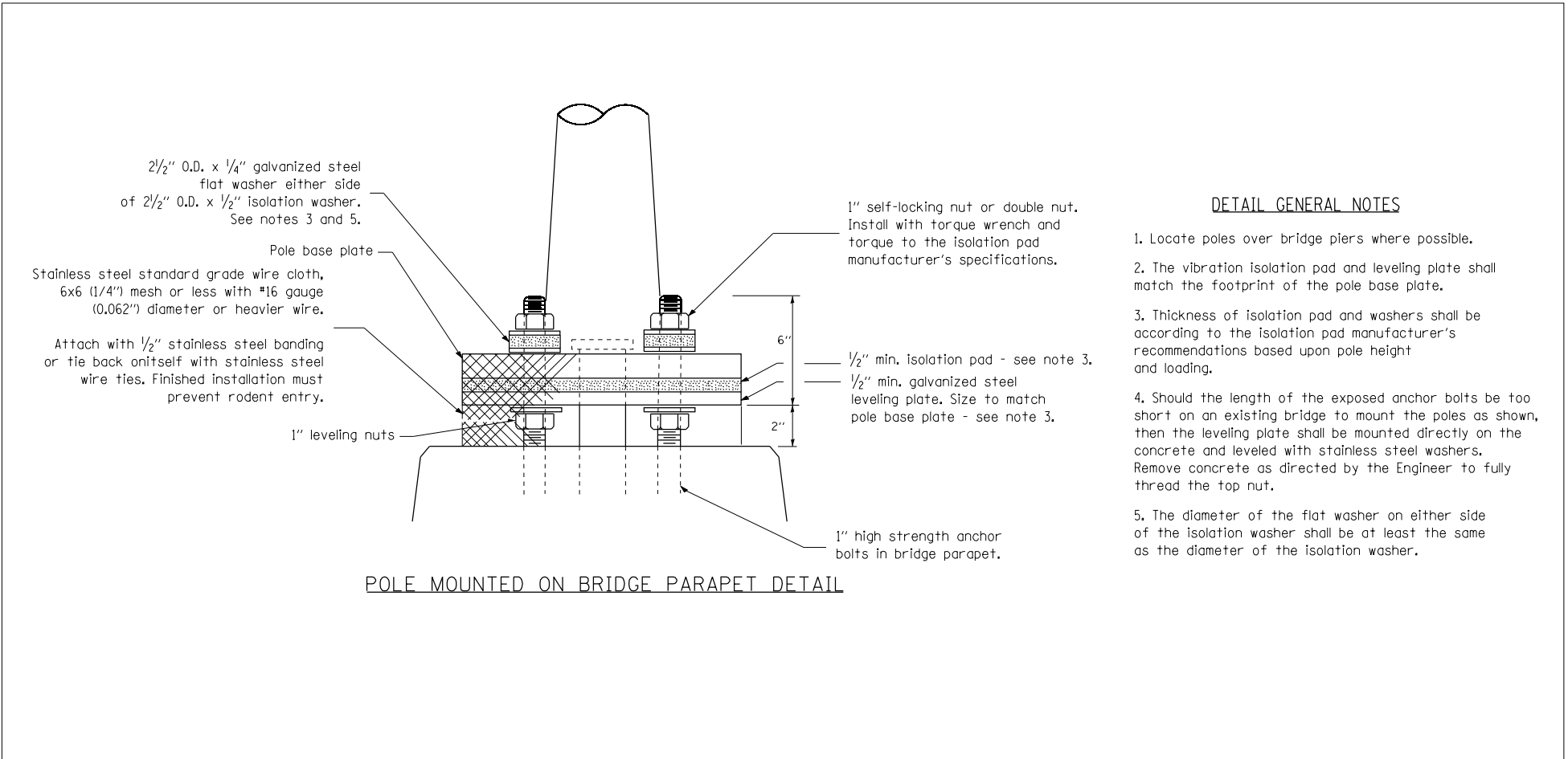
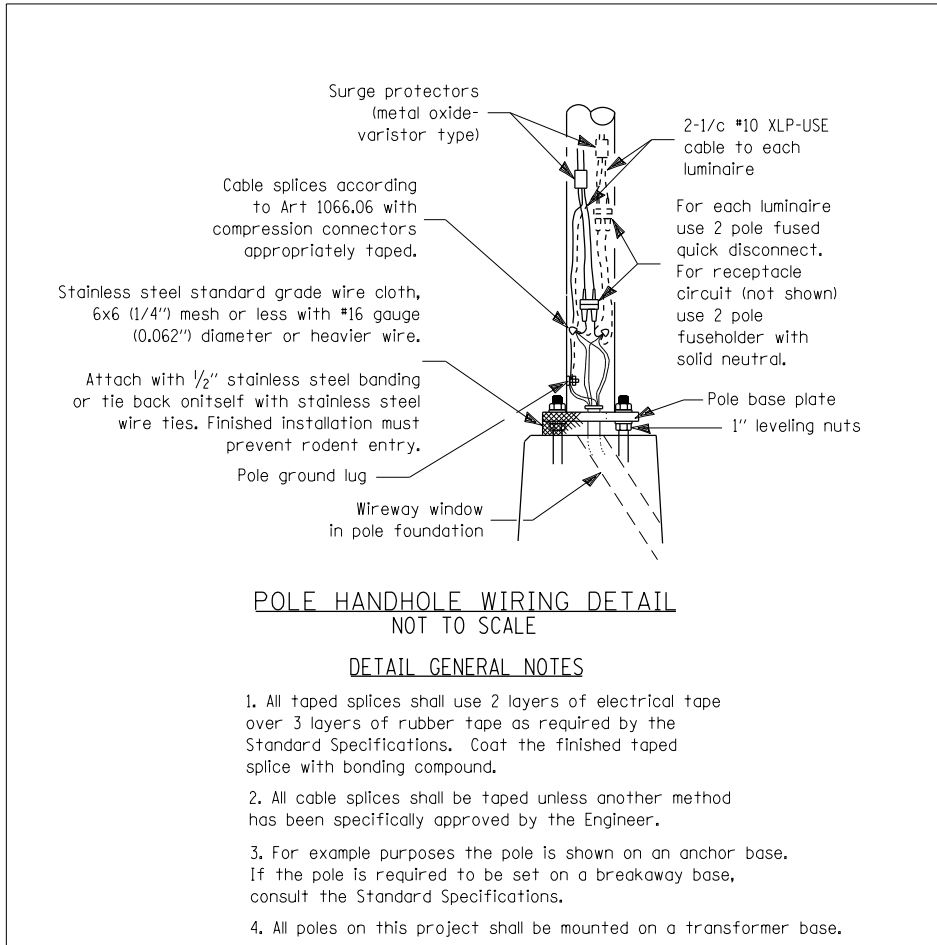
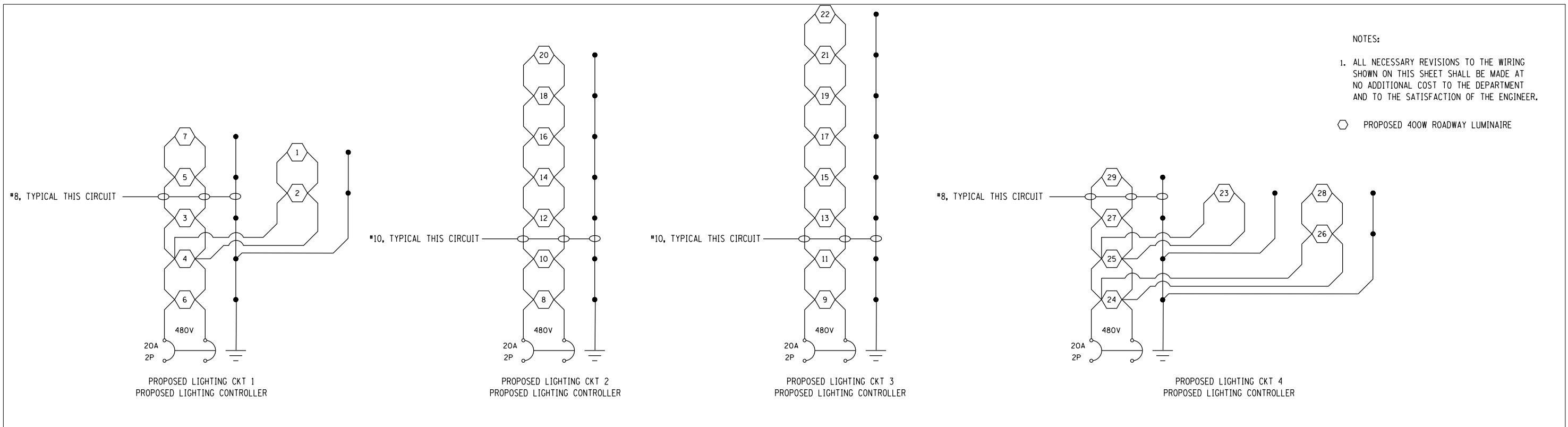
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		DRAWN - PSBA	REVISED -
	PLOT SCALE = 120.0000' / 1"	CHECKED - CSB	REVISED -
	PLOT DATE = 11/12/2012	DATE - 10/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
DETAILS AND NOTES**

SCALE: NTS SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 452
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

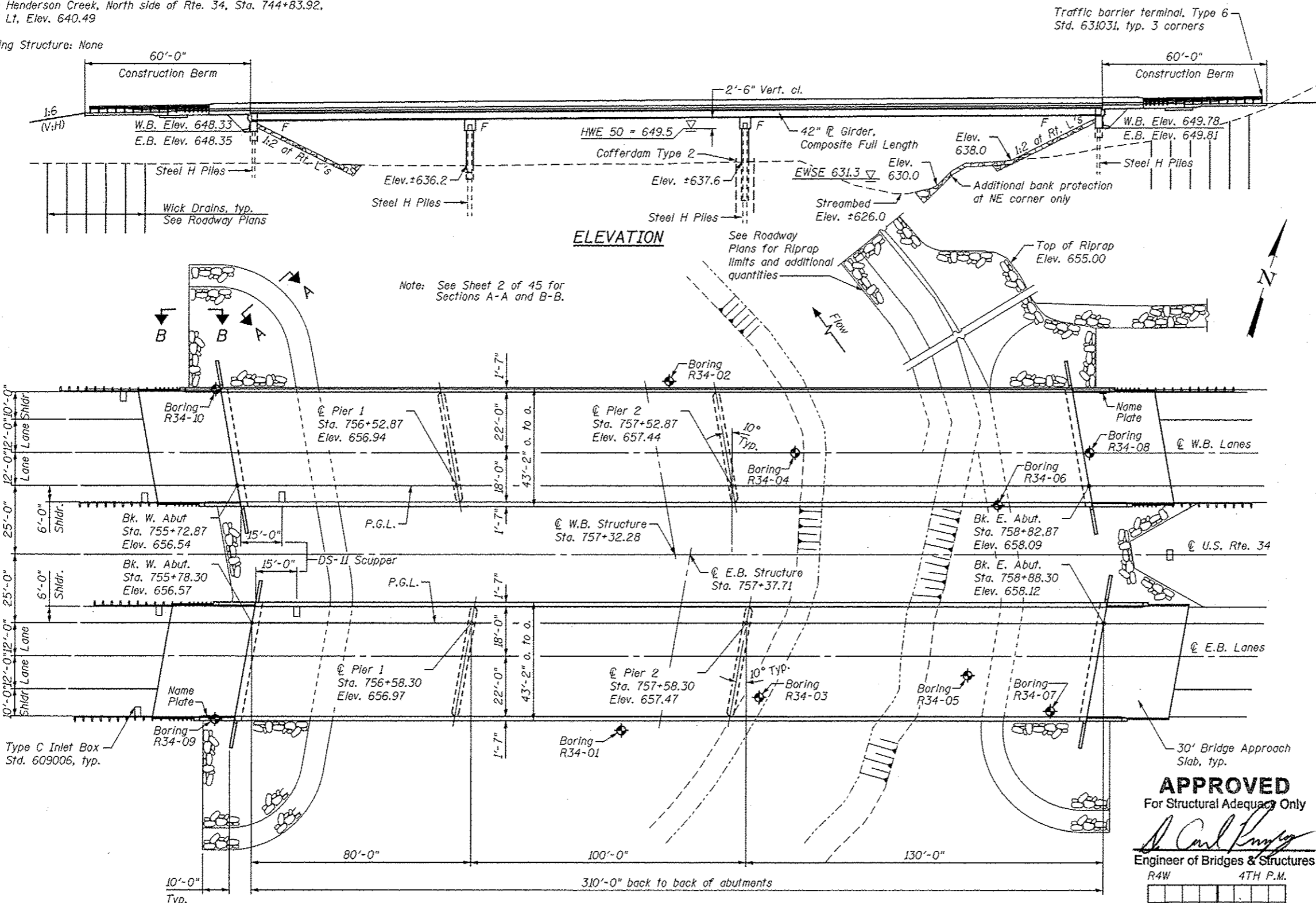


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

FILE NAME = D468409-PLAN-LIGHTING-DETAILS-SHT1.dgn	USER NAME = danw	DESIGNED - DBS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING PLAN DETAILS AND CIRCUIT DIAGRAMS</b>	F.A.P. RTE. 313	SECTION 7-2 ; 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 453	
						<b>CONTRACT NO. 68409</b>					
						ILLINOIS FED. AID PROJECT					
						SCALE: NTS SHEET 6 OF 6 SHEETS STA. TO STA.					

Benchmark: Chiseled wingwall, N.E. corner of bridge over South Henderson Creek, North side of Rte. 34, Sta. 744+83.92, 1463' Lt, Elev. 640.49

Existing Structure: None



**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Data
- 3 Substructure Layout
- 4-7 Top of Slab Elevations (W.B.)
- 8 Top of Slab Elevations-West Approach Slab (W.B.)
- 9 Top of Slab Elevations-East Approach Slab (W.B.)
- 10-13 Top of Slab Elevations (E.B.)
- 14 Top of Slab Elevations-West Approach Slab (E.B.)
- 15 Top of Slab Elevations-East Approach Slab (E.B.)
- 16-17 Superstructure (W.B.)
- 18-19 Superstructure (E.B.)
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- 21 Diaphragm Details
- 22-24 Bridge Approach Slab Details
- 25 Drainage Scupper DS-II
- 26-27 Framing Plan
- 28 Structural Steel Details
- 29 Bearing Details
- 30 West Abutment (W.B.)
- 31 East Abutment (W.B.)
- 32 West Abutment (E.B.)
- 33 East Abutment (E.B.)
- 34 Pier 1 (W.B.)
- 35 Pier 2 (W.B.)
- 36 Pier 1 (E.B.)
- 37 Pier 2 (E.B.)
- 38 HP Pile Details
- 39 Bar Splicer Assembly and Mechanical Splicer Details
- 40-45 Soil Borings

**DESIGN STRESSES**

**FIELD UNITS**  
 f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (M270 Grade 50W)

**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

**LOADING HL 93**

Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

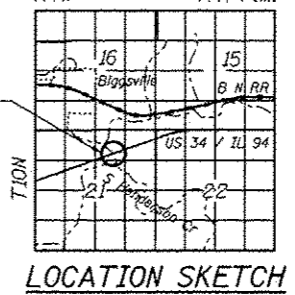
Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>1</sub>) = 0.07g  
 Design Spectral Acceleration at 0.2 sec. (S<sub>0.2</sub>) = 0.11g  
 Soil Site Class = C

**APPROVED**  
 For Structural Adequacy Only  
*Mary Coombe Bloxdorf*  
 Engineer of Bridges & Structures  
 R4W 4TH P.M.



*Mary Coombe Bloxdorf*  
 ILLINOIS STRUCTURAL NO. 4859  
 EXPIRES 11/30/14  
 DATE: 10/16/2012

**GENERAL PLAN & ELEVATION**  
**U.S. RTE. 34 OVER S. HENDERSON CREEK**  
**FAP RTE 313 SECTION 7-2, 6-1**  
**HENDERSON COUNTY**  
**STATION 757+32.28 (WB)**  
**STATION 757+37.71 (EB)**  
**STRUCTURE NO. 036-0062 (EB)**  
**STRUCTURE NO. 036-0063 (WB)**



**WATERWAY INFORMATION**

Drainage Area = 64.2 sq. mi. Proposed Low Grade Elev. 655.6 @ Sta. 753+03

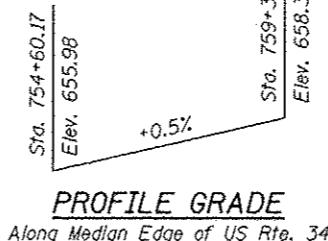
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Not. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	4100	-	2058	646.0	-	0.1	-	646.1	646.1
Base	50	7010	-	3032	649.5	-	0.2	-	649.7	649.7
Overtopping	100	8530	-	3465	651.0	-	0.2	-	651.2	651.2
Max. Calc.	500	12700	-	3962	654.6	-	0.2	-	654.8	654.8

10 year velocity thru proposed bridge = 2.0 f.p.s.

**PLAN**

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Design Discharge	W. Abut.	Pier 1	Pier 2	E. Abut.
SN 036-0062, EB	Q <sub>1000</sub>	648.35	632.2	622	649.81
SN 036-0062, EB	Q <sub>500</sub>	648.35	631.2	621	649.81
SN 036-0063, WB	Q <sub>1000</sub>	648.33	632.2	622	649.78
SN 036-0063, WB	Q <sub>500</sub>	648.33	631.2	621	649.78



FILE NAME: C:\Users\mcbloxd\Documents\781314-081\proj\p1.dgn

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-062709

USER NAME = J.M.H.  
 PLOT SCALE = 480' = 1" IN.  
 PLOT DATE = 10/16/2012

DESIGNED - CME  
 CHECKED - MCB  
 DRAWN - CFC  
 CHECKED - MCB

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	454

CONTRACT NO. 68409  
 [ILLINOIS] FED. AID PROJECT

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 3/4" diameter, holes 13/16" diameter, unless otherwise noted.

Calculated weight of Structural Steel = 891,630 Pounds

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior girder at each of these additional bracket locations.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

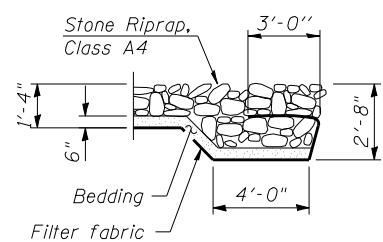
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

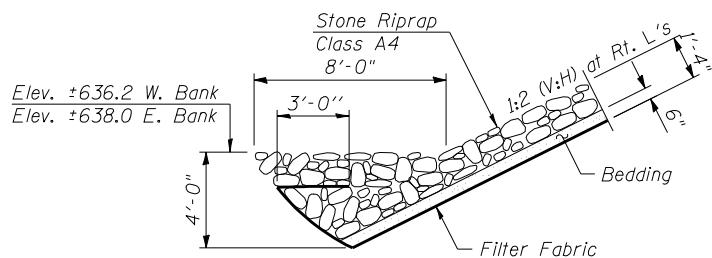
Slipforming of parapets will not be allowed.

**TOTAL BILL OF MATERIAL**

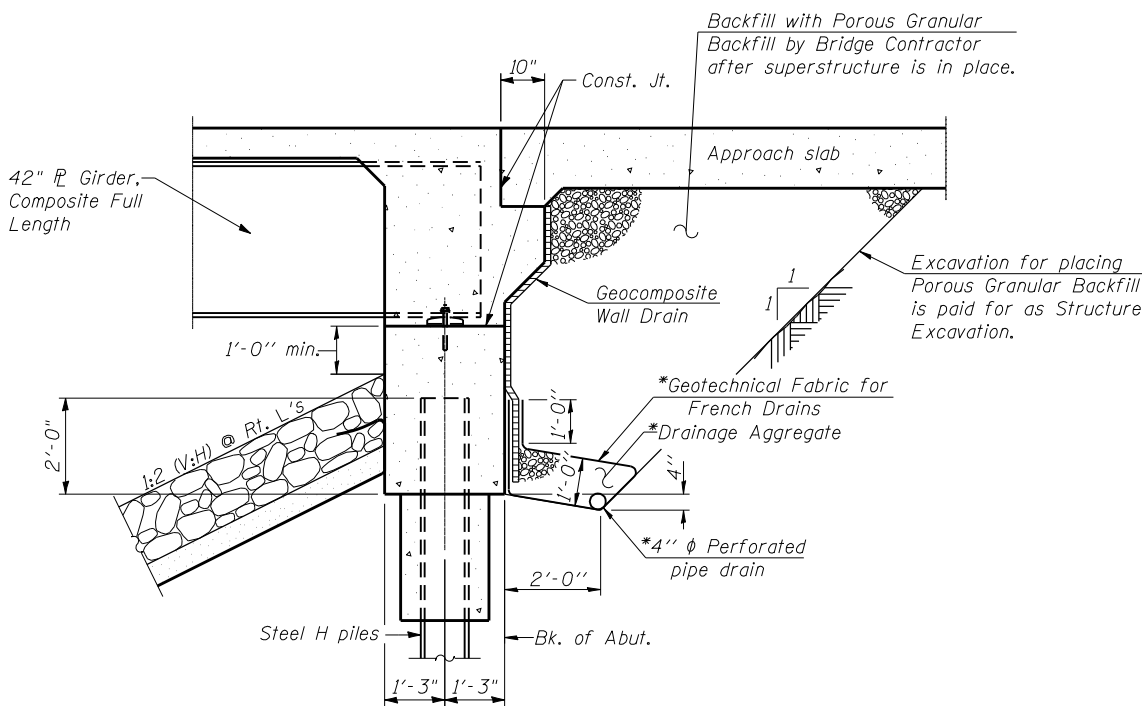
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Backfill	Cu. Yd.		316	316
Stone Riprap Class A4	Sq. Yd.		2526	2526
Filter Fabric	Sq. Yd.		2526	2526
Structure Excavation	Cu. Yd.		524	524
Cofferdam Excavation	Cu. Yd.		602	602
Concrete Structures	Cu. Yd.		424.6	424.6
Concrete Superstructure	Cu. Yd.	1173.6		1173.6
Bridge Deck Grooving	Sq. Yd.	3125		3125
Seal Coat Concrete	Cu. Yd.		105.6	105.6
Concrete Encasement	Cu. Yd.		13.2	13.2
Protective Coat	Sq. Yd.	3874		3874
Furnishing and Erecting Structural Steel	L. Sum	0.67		0.67
Stud Shear Connectors	Each	14,076		14,076
Reinforcement Bars, Epoxy Coated	Pound	293,350	49,420	342,770
Bar Splicers	Each	172		172
Furnishing Steel Piles HP 14x73	Foot		800	800
Furnishing Steel Piles HP 14x89	Foot		1800	1800
Driving Piles	Foot		2600	2600
Test Pile Steel HP 14x73	Each		3	3
Test Pile Steel HP 14x89	Each		5	5
Pile Shoes	Each		58	58
Anchor Bolts 1"	Each	72		72
Anchor Bolts 1/4"	Each	24		24
Name Plates	Each	2		2
Geocomposite Wall Drain	Sq. Yd.		172	172
Cofferdam (Type 2) - Location 1	Each		2	2
Pipe Underdrains for Structures 4"	Foot		322	322



**SECTION B-B**



**SECTION A-A**



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601.01).

STATION 757+32.28  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 313  
SEC 7-2, 6-1  
LOADING HL-93  
STRUCTURE NO. 036-0063

**NAME PLATE - W.B. STRUCTURE**  
See Std. 515001

STATION 757+37.71  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 313  
SEC 7-2, 6-1  
LOADING HL-93  
STRUCTURE NO. 036-0062

**NAME PLATE - E.B. STRUCTURE**  
See Std. 515001

FILE NAME = 036-0063-78134-002-gen-ds.dwg  
CB PROJECT NO. 04065

**Coombes-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

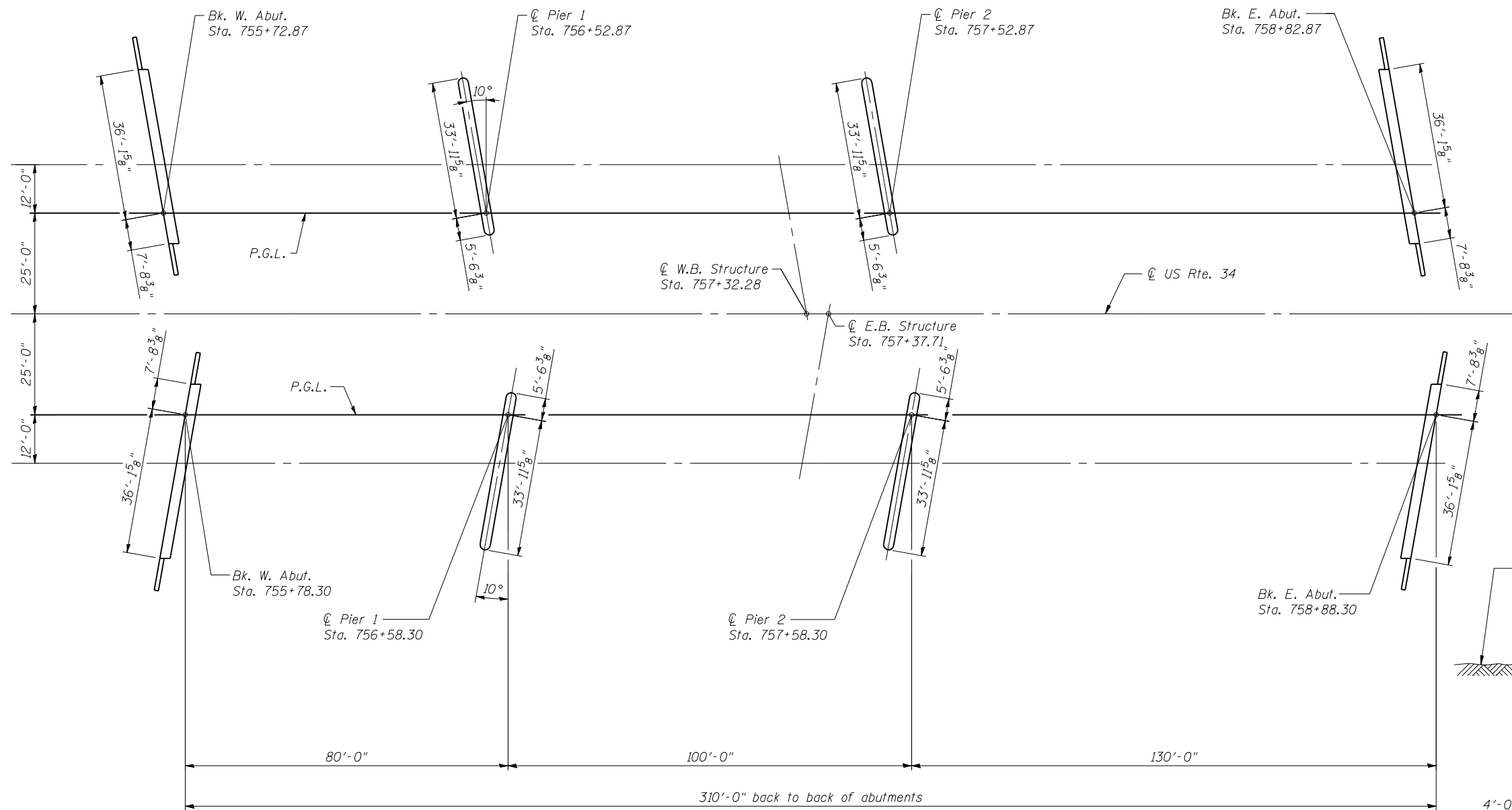
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

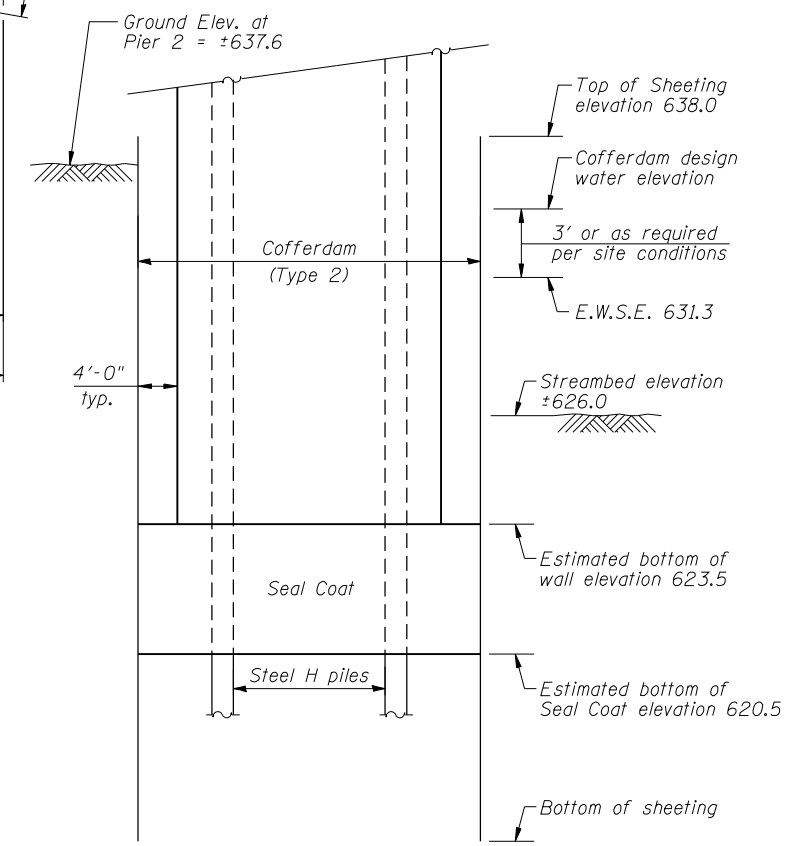
**GENERAL DATA  
STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 2 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	455
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**FOOTING LAYOUT**



**SEAL COAT SCHEMATIC**  
(Required at Pier 2 only)

FILE NAME = 036-0062-78134-003-Footing.dgn  
 PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS  
 STRUCTURAL ENGINEERS  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 32:0.000864 ' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
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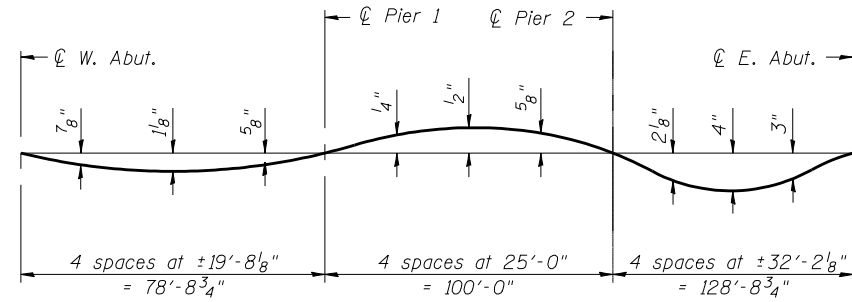
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE LAYOUT**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 3 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 456
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

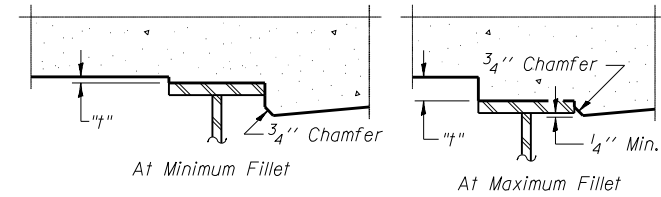




**DEAD LOAD DEFLECTION DIAGRAM**

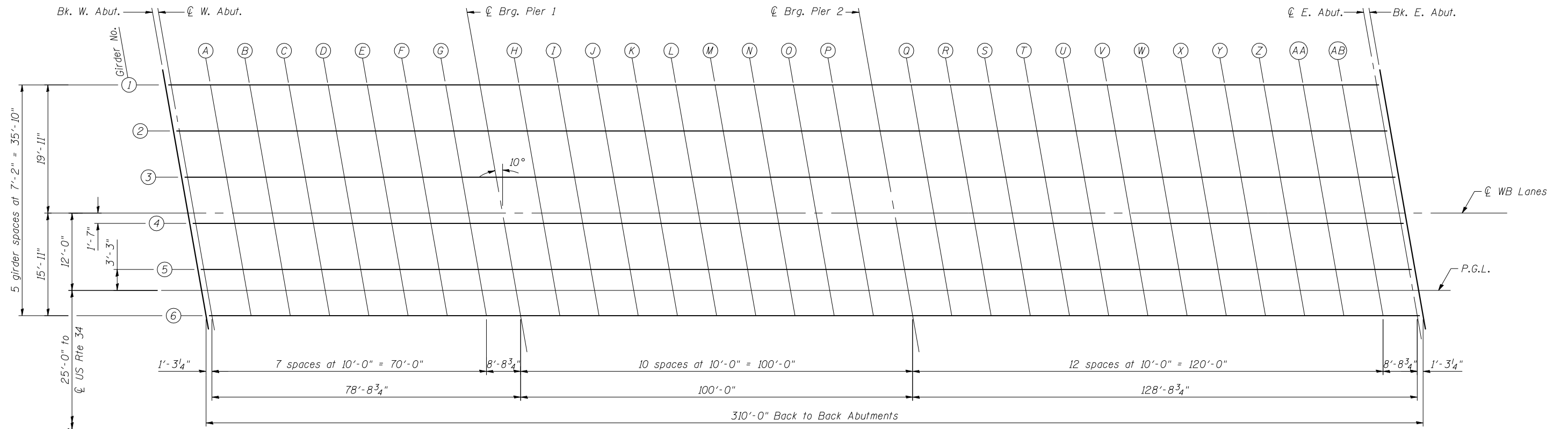
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 5, 6 and 7 of 45.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5, 6 and 7 of 45, minus slab thickness, equals the fillet heights "t" above top flange of girders.

**FILLET HEIGHTS**



**PLAN**

FILE NAME = 0363-063-78134-204-top-of-slab-plan.mxd  
PROJECT NO. 04065

E-S 7-1-10

**Coombe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 036-063 (W.B.)**

SHEET NO. 4 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	457
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

**GIRDER 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75567.24	-31.92	656.35	656.35
CL W Abut	75568.51	-31.92	656.36	656.36
A	75578.51	-31.92	656.41	656.45
B	75588.51	-31.92	656.46	656.53
C	75598.51	-31.92	656.51	656.60
D	75608.51	-31.92	656.56	656.65
E	75618.51	-31.92	656.61	656.69
F	75628.51	-31.92	656.66	656.71
G	75638.51	-31.92	656.71	656.73
CL Pier 1	75647.24	-31.92	656.75	656.75
H	75657.24	-31.92	656.80	656.79
I	75667.24	-31.92	656.85	656.84
J	75677.24	-31.92	656.90	656.88
K	75687.24	-31.92	656.95	656.93
L	75697.24	-31.92	657.00	656.97
M	75707.24	-31.92	657.05	657.02
N	75717.24	-31.92	657.10	657.06
O	75727.24	-31.92	657.15	657.12
P	75737.24	-31.92	657.20	657.18
CL Pier 2	75747.24	-31.92	657.25	657.25
Q	75757.24	-31.92	657.30	657.34
R	75767.24	-31.92	657.35	657.44
S	75777.24	-31.92	657.40	657.56
T	75787.24	-31.92	657.45	657.66
U	75797.24	-31.92	657.50	657.76
V	75807.24	-31.92	657.55	657.85
W	75817.24	-31.92	657.60	657.91
X	75827.24	-31.92	657.65	657.95
Y	75837.24	-31.92	657.70	657.97
Z	75847.24	-31.92	657.75	657.97
AA	75857.24	-31.92	657.80	657.95
AB	75867.24	-31.92	657.85	657.92
CL E Abut	75875.97	-31.92	657.90	657.90
Bk E Abut	75877.24	-31.92	657.90	657.90

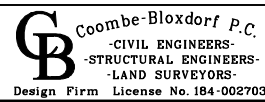
**GIRDER 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75568.50	-24.75	656.51	656.51
CL W Abut	75569.78	-24.75	656.51	656.51
A	75579.78	-24.75	656.56	656.60
B	75589.78	-24.75	656.61	656.69
C	75599.78	-24.75	656.66	656.76
D	75609.78	-24.75	656.71	656.81
E	75619.78	-24.75	656.76	656.84
F	75629.78	-24.75	656.81	656.86
G	75639.78	-24.75	656.86	656.88
CL Pier 1	75648.50	-24.75	656.91	656.91
H	75658.50	-24.75	656.96	656.95
I	75668.50	-24.75	657.01	656.99
J	75678.50	-24.75	657.06	657.04
K	75688.50	-24.75	657.11	657.08
L	75698.50	-24.75	657.16	657.13
M	75708.50	-24.75	657.21	657.17
N	75718.50	-24.75	657.26	657.22
O	75728.50	-24.75	657.31	657.27
P	75738.50	-24.75	657.36	657.33
CL Pier 2	75748.50	-24.75	657.41	657.41
Q	75758.50	-24.75	657.46	657.49
R	75768.50	-24.75	657.51	657.60
S	75778.50	-24.75	657.56	657.71
T	75788.50	-24.75	657.61	657.82
U	75798.50	-24.75	657.66	657.92
V	75808.50	-24.75	657.71	658.00
W	75818.50	-24.75	657.76	658.07
X	75828.50	-24.75	657.81	658.11
Y	75838.50	-24.75	657.86	658.13
Z	75848.50	-24.75	657.91	658.13
AA	75858.50	-24.75	657.96	658.11
AB	75868.50	-24.75	658.01	658.08
CL E Abut	75877.24	-24.75	658.05	658.05
Bk E Abut	75878.50	-24.75	658.06	658.06

**GIRDER 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75569.77	-17.58	656.63	656.63
CL W Abut	75571.04	-17.58	656.64	656.64
A	75581.04	-17.58	656.69	656.73
B	75591.04	-17.58	656.74	656.81
C	75601.04	-17.58	656.79	656.88
D	75611.04	-17.58	656.84	656.93
E	75621.04	-17.58	656.89	656.96
F	75631.04	-17.58	656.94	656.99
G	75641.04	-17.58	656.99	657.01
CL Pier 1	75649.77	-17.58	657.03	657.03
H	75659.77	-17.58	657.08	657.07
I	75669.77	-17.58	657.13	657.11
J	75679.77	-17.58	657.18	657.16
K	75689.77	-17.58	657.23	657.21
L	75699.77	-17.58	657.28	657.25
M	75709.77	-17.58	657.33	657.29
N	75719.77	-17.58	657.38	657.34
O	75729.77	-17.58	657.43	657.39
P	75739.77	-17.58	657.48	657.45
CL Pier 2	75749.77	-17.58	657.53	657.53
Q	75759.77	-17.58	657.58	657.62
R	75769.77	-17.58	657.63	657.72
S	75779.77	-17.58	657.68	657.83
T	75789.77	-17.58	657.73	657.94
U	75799.77	-17.58	657.78	658.04
V	75809.77	-17.58	657.83	658.12
W	75819.77	-17.58	657.88	658.19
X	75829.77	-17.58	657.93	658.23
Y	75839.77	-17.58	657.98	658.25
Z	75849.77	-17.58	658.03	658.25
AA	75859.77	-17.58	658.08	658.23
AB	75869.77	-17.58	658.13	658.20
CL E Abut	75878.50	-17.58	658.17	658.17
Bk E Abut	75879.77	-17.58	658.18	658.18

FILE NAME = 036-063-78134-005-top\_of\_slab-elev.-MB.dgn  
 CB PROJECT NO. 04065



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PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 5 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	458
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

WB LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75570.75	-12.00	656.72	656.72
CL W Abut	75572.02	-12.00	656.73	656.73
A	75582.02	-12.00	656.78	656.82
B	75592.02	-12.00	656.83	656.90
C	75602.02	-12.00	656.88	656.97
D	75612.02	-12.00	656.93	657.02
E	75622.02	-12.00	656.98	657.06
F	75632.02	-12.00	657.03	657.08
G	75642.02	-12.00	657.08	657.10
CL Pier 1	75650.75	-12.00	657.12	657.12
H	75660.75	-12.00	657.17	657.16
I	75670.75	-12.00	657.22	657.21
J	75680.75	-12.00	657.27	657.25
K	75690.75	-12.00	657.32	657.30
L	75700.75	-12.00	657.37	657.34
M	75710.75	-12.00	657.42	657.39
N	75720.75	-12.00	657.47	657.43
O	75730.75	-12.00	657.52	657.48
P	75740.75	-12.00	657.57	657.55
CL Pier 2	75750.75	-12.00	657.62	657.62
Q	75760.75	-12.00	657.67	657.71
R	75770.75	-12.00	657.72	657.81
S	75780.75	-12.00	657.77	657.92
T	75790.75	-12.00	657.82	658.03
U	75800.75	-12.00	657.87	658.13
V	75810.75	-12.00	657.92	658.22
W	75820.75	-12.00	657.97	658.28
X	75830.75	-12.00	658.02	658.32
Y	75840.75	-12.00	658.07	658.34
Z	75850.75	-12.00	658.12	658.34
AA	75860.75	-12.00	658.17	658.32
AB	75870.75	-12.00	658.22	658.29
CL E Abut	75879.49	-12.00	658.26	658.26
Bk E Abut	75880.75	-12.00	658.27	658.27

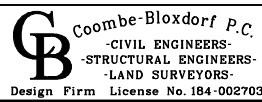
GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75571.03	-10.42	656.70	656.70
CL W Abut	75572.30	-10.42	656.70	656.70
A	75582.30	-10.42	656.75	656.79
B	75592.30	-10.42	656.80	656.88
C	75602.30	-10.42	656.85	656.95
D	75612.30	-10.42	656.90	657.00
E	75622.30	-10.42	656.95	657.03
F	75632.30	-10.42	657.00	657.05
G	75642.30	-10.42	657.05	657.07
CL Pier 1	75651.03	-10.42	657.10	657.10
H	75661.03	-10.42	657.15	657.14
I	75671.03	-10.42	657.20	657.18
J	75681.03	-10.42	657.25	657.23
K	75691.03	-10.42	657.30	657.27
L	75701.03	-10.42	657.35	657.32
M	75711.03	-10.42	657.40	657.36
N	75721.03	-10.42	657.45	657.41
O	75731.03	-10.42	657.50	657.46
P	75741.03	-10.42	657.55	657.52
CL Pier 2	75751.03	-10.42	657.60	657.60
Q	75761.03	-10.42	657.65	657.68
R	75771.03	-10.42	657.70	657.79
S	75781.03	-10.42	657.75	657.90
T	75791.03	-10.42	657.80	658.01
U	75801.03	-10.42	657.85	658.11
V	75811.03	-10.42	657.90	658.19
W	75821.03	-10.42	657.95	658.26
X	75831.03	-10.42	658.00	658.30
Y	75841.03	-10.42	658.05	658.32
Z	75851.03	-10.42	658.10	658.32
AA	75861.03	-10.42	658.15	658.30
AB	75871.03	-10.42	658.20	658.27
CL E Abut	75879.76	-10.42	658.24	658.24
Bk E Abut	75881.03	-10.42	658.25	658.25

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75572.29	-3.25	656.59	656.59
CL W Abut	75573.57	-3.25	656.60	656.60
A	75583.57	-3.25	656.65	656.69
B	75593.57	-3.25	656.70	656.77
C	75603.57	-3.25	656.75	656.84
D	75613.57	-3.25	656.80	656.89
E	75623.57	-3.25	656.85	656.93
F	75633.57	-3.25	656.90	656.95
G	75643.57	-3.25	656.95	656.97
CL Pier 1	75652.29	-3.25	656.99	656.99
H	75662.29	-3.25	657.04	657.03
I	75672.29	-3.25	657.09	657.08
J	75682.29	-3.25	657.14	657.12
K	75692.29	-3.25	657.19	657.17
L	75702.29	-3.25	657.24	657.21
M	75712.29	-3.25	657.29	657.26
N	75722.29	-3.25	657.34	657.30
O	75732.29	-3.25	657.39	657.36
P	75742.29	-3.25	657.44	657.42
CL Pier 2	75752.29	-3.25	657.49	657.49
Q	75762.29	-3.25	657.54	657.58
R	75772.29	-3.25	657.59	657.68
S	75782.29	-3.25	657.64	657.80
T	75792.29	-3.25	657.69	657.91
U	75802.29	-3.25	657.74	658.00
V	75812.29	-3.25	657.79	658.09
W	75822.29	-3.25	657.84	658.15
X	75832.29	-3.25	657.89	658.19
Y	75842.29	-3.25	657.94	658.21
Z	75852.29	-3.25	657.99	658.21
AA	75862.29	-3.25	658.04	658.19
AB	75872.29	-3.25	658.09	658.17
CL E Abut	75881.03	-3.25	658.14	658.14
Bk E Abut	75882.29	-3.25	658.14	658.14

FILE NAME = 036-063-78134-006-top-of-slab-elev.-WB.dgn  
 CB PROJECT NO. 04065



USER NAME = .MML.	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0=2' = 1" / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-0063 (W.B.)

SHEET NO. 6 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	459
			CONTRACT NO. 68409	
ILLINOIS FED. AID PROJECT				

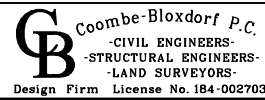
**PROFILE GRADE LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75572.87	0.00	656.54	656.54
CL W Abut	75574.14	0.00	656.55	656.55
A	75584.14	0.00	656.60	656.64
B	75594.14	0.00	656.65	656.72
C	75604.14	0.00	656.70	656.79
D	75614.14	0.00	656.75	656.84
E	75624.14	0.00	656.80	656.88
F	75634.14	0.00	656.85	656.90
G	75644.14	0.00	656.90	656.92
CL Pier 1	75652.87	0.00	656.94	656.94
H	75662.87	0.00	656.99	656.98
I	75672.87	0.00	657.04	657.03
J	75682.87	0.00	657.09	657.08
K	75692.87	0.00	657.14	657.12
L	75702.87	0.00	657.19	657.17
M	75712.87	0.00	657.24	657.21
N	75722.87	0.00	657.29	657.26
O	75732.87	0.00	657.34	657.31
P	75742.87	0.00	657.39	657.37
CL Pier 2	75752.87	0.00	657.44	657.44
Q	75762.87	0.00	657.49	657.53
R	75772.87	0.00	657.54	657.64
S	75782.87	0.00	657.59	657.75
T	75792.87	0.00	657.64	657.86
U	75802.87	0.00	657.69	657.96
V	75812.87	0.00	657.74	658.04
W	75822.87	0.00	657.79	658.10
X	75832.87	0.00	657.84	658.14
Y	75842.87	0.00	657.89	658.16
Z	75852.87	0.00	657.94	658.16
AA	75862.87	0.00	657.99	658.15
AB	75872.87	0.00	658.04	658.12
CL E Abut	75881.60	0.00	658.09	658.09
Bk E Abut	75882.87	0.00	658.09	658.09

**GIRDER 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75573.56	3.92	656.47	656.47
CL W Abut	75574.83	3.92	656.47	656.47
A	75584.83	3.92	656.52	656.56
B	75594.83	3.92	656.57	656.65
C	75604.83	3.92	656.62	656.72
D	75614.83	3.92	656.67	656.77
E	75624.83	3.92	656.72	656.80
F	75634.83	3.92	656.77	656.82
G	75644.83	3.92	656.82	656.84
CL Pier 1	75653.56	3.92	656.87	656.87
H	75663.56	3.92	656.92	656.91
I	75673.56	3.92	656.97	656.95
J	75683.56	3.92	657.02	657.00
K	75693.56	3.92	657.07	657.04
L	75703.56	3.92	657.12	657.09
M	75713.56	3.92	657.17	657.13
N	75723.56	3.92	657.22	657.18
O	75733.56	3.92	657.27	657.23
P	75743.56	3.92	657.32	657.29
CL Pier 2	75753.56	3.92	657.37	657.37
Q	75763.56	3.92	657.42	657.45
R	75773.56	3.92	657.47	657.56
S	75783.56	3.92	657.52	657.67
T	75793.56	3.92	657.57	657.78
U	75803.56	3.92	657.62	657.88
V	75813.56	3.92	657.67	657.96
W	75823.56	3.92	657.72	658.02
X	75833.56	3.92	657.77	658.07
Y	75843.56	3.92	657.82	658.09
Z	75853.56	3.92	657.87	658.09
AA	75863.56	3.92	657.92	658.07
AB	75873.56	3.92	657.97	658.04
CL E Abut	75882.29	3.92	658.01	658.01
Bk E Abut	75883.56	3.92	658.02	658.02

FILE NAME = 036-063-78134-007-top-of-slab-elev.-WB.dgn  
 CB PROJECT NO. 04065



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PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-063 (W.B.)**

SHEET NO. 7 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	460
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68409	

NORTH EDGE OF SHOULDER

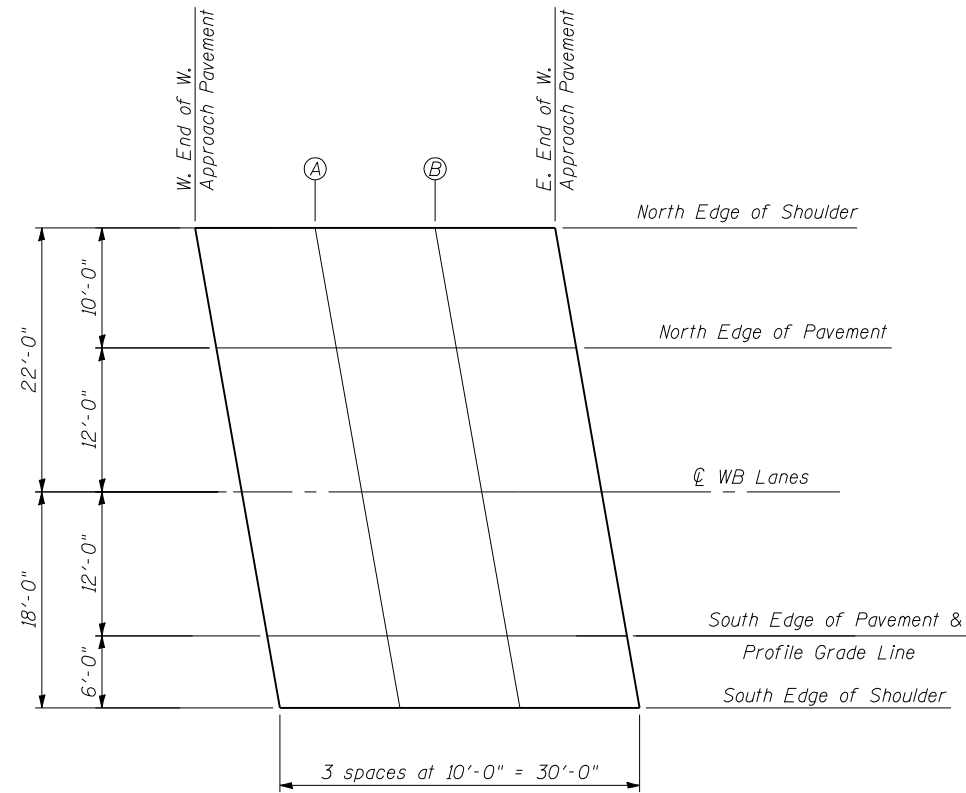
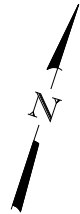
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75536.87	-34.00	656.16
A	75546.87	-34.00	656.21
B	75556.87	-34.00	656.26
E. End W. Approach	75566.87	-34.00	656.31

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75538.64	-24.00	656.37
A	75548.64	-24.00	656.42
B	75558.64	-24.00	656.47
E. End W. Approach	75568.64	-24.00	656.52

WB LANES

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75540.75	-12.00	656.57
A	75550.75	-12.00	656.62
B	75560.75	-12.00	656.67
E. End W. Approach	75570.75	-12.00	656.72



PLAN

SOUTH EDGE OF PAVEMENT & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75542.87	0.00	656.39
A	75552.87	0.00	656.44
B	75562.87	0.00	656.49
E. End W. Approach	75572.87	0.00	656.54

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75543.93	6.00	656.27
A	75553.93	6.00	656.32
B	75563.93	6.00	656.37
E. End W. Approach	75573.93	6.00	656.42

FILE NAME = 036-0063-78134-00B-tas-Wappr-WB.dgn  
USER PROJECT NO. 04065

E-AS

7-1-10

**Coome-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - WEST APPROACH SLAB  
STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 8 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	461
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

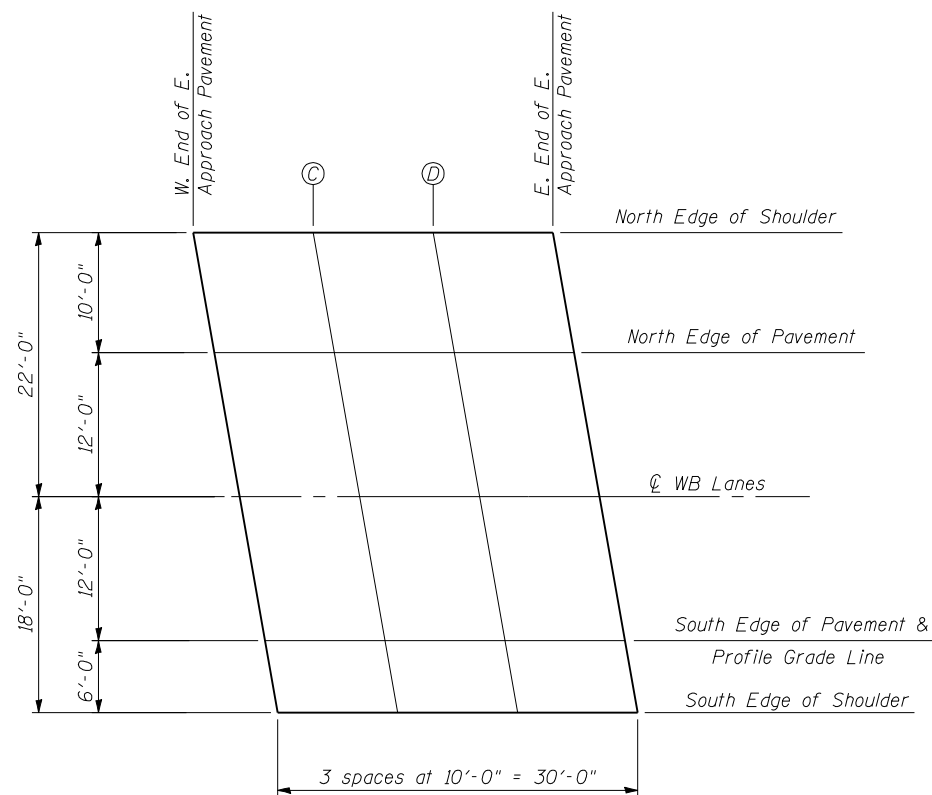
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75876.87	-34.00	657.86
C	75886.87	-34.00	657.91
D	75896.87	-34.00	657.96
E. End E. Approach	75906.87	-34.00	658.01

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75878.64	-24.00	658.07
C	75888.64	-24.00	658.12
D	75898.64	-24.00	658.17
E. End E. Approach	75908.64	-24.00	658.22

WB LANES

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75880.75	-12.00	658.27
C	75890.75	-12.00	658.32
D	75900.75	-12.00	658.37
E. End E. Approach	75910.75	-12.00	658.42



PLAN

SOUTH EDGE OF PAVEMENT & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75882.87	0.00	658.09
C	75892.87	0.00	658.14
D	75902.87	0.00	658.19
E. End E. Approach	75912.87	0.00	658.24

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75883.93	6.00	657.97
C	75893.93	6.00	658.02
D	75903.93	6.00	658.07
E. End E. Approach	75913.93	6.00	658.12

FILE NAME = C:\Users\mml\Documents\036-0063-78134-009-105-EAppr-WB.dgn  
CB PROJECT NO. 04065

E-AS

7-1-10

**Coome-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

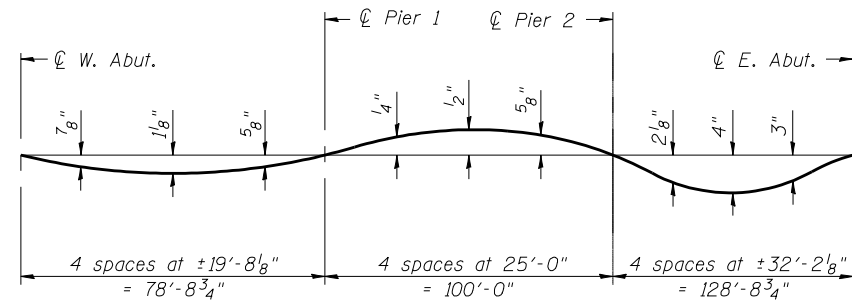
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	CHECKED - MCB	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - EAST APPROACH SLAB  
STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 9 OF 45 SHEETS

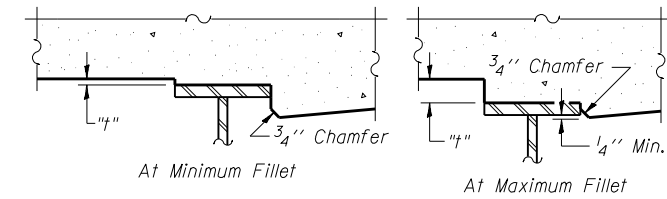
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	462
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**DEAD LOAD DEFLECTION DIAGRAM**

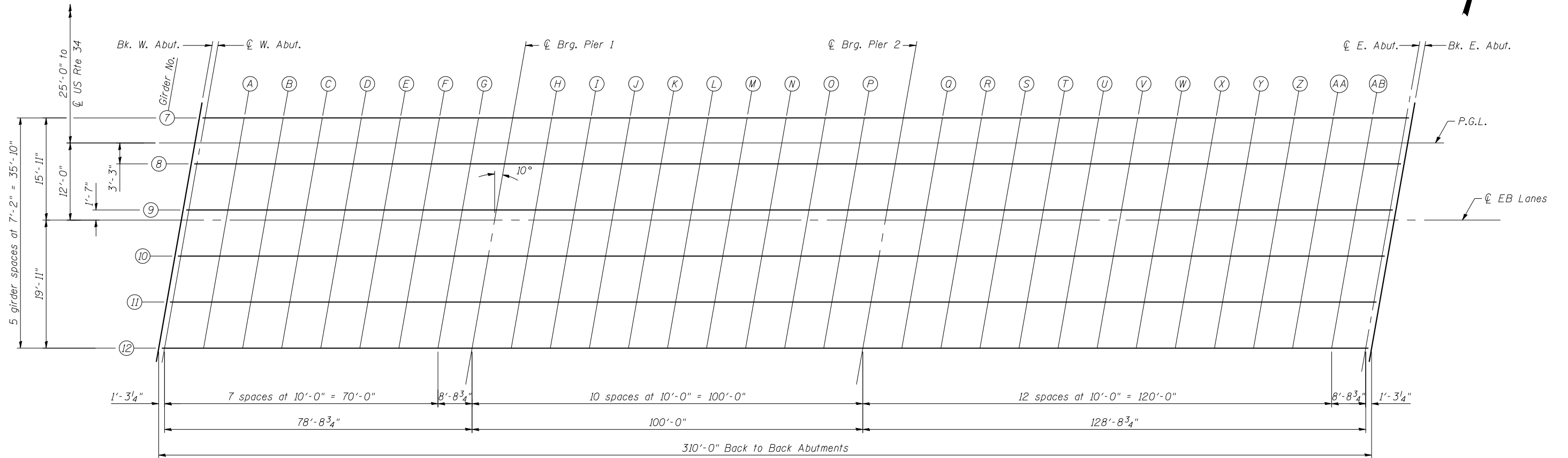
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 11, 12 and 13 of 45.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 11, 12 and 13 of 45, minus slab thickness, equals the fillet heights "t" above top flange of girders.

**FILLET HEIGHTS**



**PLAN**

FILE NAME = 0363-78134-010-top-of-slab-plan-EB.dgn  
PROJECT NO. 04065

E-S 7-1-10

**Coombe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 10 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	463
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

**GIRDER 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75578.99	-3.92	656.49	656.49
CL W Abut	75580.26	-3.92	656.50	656.50
A	75590.26	-3.92	656.55	656.59
B	75600.26	-3.92	656.60	656.67
C	75610.26	-3.92	656.65	656.74
D	75620.26	-3.92	656.70	656.79
E	75630.26	-3.92	656.75	656.83
F	75640.26	-3.92	656.80	656.85
G	75650.26	-3.92	656.85	656.87
CL Pier 1	75658.99	-3.92	656.89	656.89
H	75668.99	-3.92	656.94	656.93
I	75678.99	-3.92	656.99	656.98
J	75688.99	-3.92	657.04	657.02
K	75698.99	-3.92	657.09	657.07
L	75708.99	-3.92	657.14	657.11
M	75718.99	-3.92	657.19	657.16
N	75728.99	-3.92	657.24	657.21
O	75738.99	-3.92	657.29	657.26
P	75748.99	-3.92	657.34	657.32
CL Pier 2	75758.99	-3.92	657.39	657.39
Q	75768.99	-3.92	657.44	657.48
R	75778.99	-3.92	657.49	657.59
S	75788.99	-3.92	657.54	657.70
T	75798.99	-3.92	657.59	657.81
U	75808.99	-3.92	657.64	657.91
V	75818.99	-3.92	657.69	657.99
W	75828.99	-3.92	657.74	658.05
X	75838.99	-3.92	657.79	658.09
Y	75848.99	-3.92	657.84	658.11
Z	75858.99	-3.92	657.89	658.11
AA	75868.99	-3.92	657.94	658.10
AB	75878.99	-3.92	657.99	658.07
CL E Abut	75887.72	-3.92	658.04	658.04
Bk E Abut	75888.99	-3.92	658.04	658.04

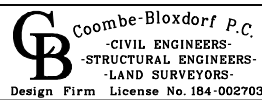
**PROFILE GRADE LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75578.30	0.00	656.57	656.57
CL W Abut	75579.57	0.00	656.58	656.58
A	75589.57	0.00	656.63	656.67
B	75599.57	0.00	656.68	656.75
C	75609.57	0.00	656.73	656.82
D	75619.57	0.00	656.78	656.87
E	75629.57	0.00	656.83	656.91
F	75639.57	0.00	656.88	656.93
G	75649.57	0.00	656.93	656.95
CL Pier 1	75658.30	0.00	656.97	656.97
H	75668.30	0.00	657.02	657.01
I	75678.30	0.00	657.07	657.06
J	75688.30	0.00	657.12	657.10
K	75698.30	0.00	657.17	657.15
L	75708.30	0.00	657.22	657.19
M	75718.30	0.00	657.27	657.24
N	75728.30	0.00	657.32	657.28
O	75738.30	0.00	657.37	657.34
P	75748.30	0.00	657.42	657.40
CL Pier 2	75758.30	0.00	657.47	657.47
Q	75768.30	0.00	657.52	657.56
R	75778.30	0.00	657.57	657.66
S	75788.30	0.00	657.62	657.78
T	75798.30	0.00	657.67	657.88
U	75808.30	0.00	657.72	657.98
V	75818.30	0.00	657.77	658.07
W	75828.30	0.00	657.82	658.13
X	75838.30	0.00	657.87	658.17
Y	75848.30	0.00	657.92	658.19
Z	75858.30	0.00	657.97	658.19
AA	75868.30	0.00	658.02	658.17
AB	75878.30	0.00	658.07	658.14
CL E Abut	75887.03	0.00	658.12	658.12
Bk E Abut	75888.30	0.00	658.12	658.12

**GIRDER 8**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75577.72	3.26	656.62	656.62
CL W Abut	75579.00	3.26	656.63	656.63
A	75589.00	3.26	656.68	656.72
B	75599.00	3.26	656.73	656.80
C	75609.00	3.26	656.78	656.87
D	75619.00	3.26	656.83	656.92
E	75629.00	3.26	656.88	656.95
F	75639.00	3.26	656.93	656.98
G	75649.00	3.26	656.98	657.00
CL Pier 1	75657.72	3.26	657.02	657.02
H	75667.72	3.26	657.07	657.06
I	75677.72	3.26	657.12	657.10
J	75687.72	3.26	657.17	657.15
K	75697.72	3.26	657.22	657.20
L	75707.72	3.26	657.27	657.24
M	75717.72	3.26	657.32	657.29
N	75727.72	3.26	657.37	657.33
O	75737.72	3.26	657.42	657.38
P	75747.72	3.26	657.47	657.44
CL Pier 2	75757.72	3.26	657.52	657.52
Q	75767.72	3.26	657.57	657.61
R	75777.72	3.26	657.62	657.71
S	75787.72	3.26	657.67	657.82
T	75797.72	3.26	657.72	657.93
U	75807.72	3.26	657.77	658.03
V	75817.72	3.26	657.82	658.11
W	75827.72	3.26	657.87	658.18
X	75837.72	3.26	657.92	658.22
Y	75847.72	3.26	657.97	658.24
Z	75857.72	3.26	658.02	658.24
AA	75867.72	3.26	658.07	658.22
AB	75877.72	3.26	658.12	658.19
CL E Abut	75886.46	3.26	658.16	658.16
Bk E Abut	75887.72	3.26	658.17	658.17

FILE NAME = 036-0062-78134-011-top-of-slab-elev.dwg  
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 PROJECT NO. 04065



USER NAME = MML	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 11 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	464
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**GIRDER 9**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75576.46	10.42	656.72	656.72
CL W Abut	75577.73	10.42	656.73	656.73
A	75587.73	10.42	656.78	656.82
B	75597.73	10.42	656.83	656.91
C	75607.73	10.42	656.88	656.97
D	75617.73	10.42	656.93	657.02
E	75627.73	10.42	656.98	657.06
F	75637.73	10.42	657.03	657.08
G	75647.73	10.42	657.08	657.10
CL Pier 1	75656.46	10.42	657.12	657.12
H	75666.46	10.42	657.17	657.16
I	75676.46	10.42	657.22	657.21
J	75686.46	10.42	657.27	657.26
K	75696.46	10.42	657.32	657.30
L	75706.46	10.42	657.37	657.35
M	75716.46	10.42	657.42	657.39
N	75726.46	10.42	657.47	657.44
O	75736.46	10.42	657.52	657.49
P	75746.46	10.42	657.57	657.55
CL Pier 2	75756.46	10.42	657.62	657.62
Q	75766.46	10.42	657.67	657.71
R	75776.46	10.42	657.72	657.82
S	75786.46	10.42	657.77	657.93
T	75796.46	10.42	657.82	658.04
U	75806.46	10.42	657.87	658.14
V	75816.46	10.42	657.92	658.22
W	75826.46	10.42	657.97	658.28
X	75836.46	10.42	658.02	658.33
Y	75846.46	10.42	658.07	658.34
Z	75856.46	10.42	658.12	658.34
AA	75866.46	10.42	658.17	658.33
AB	75876.46	10.42	658.22	658.30
CL E Abut	75885.19	10.42	658.27	658.27
Bk E Abut	75886.46	10.42	658.27	658.27

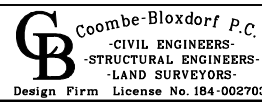
**EB LANES**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75576.18	12.00	656.75	656.75
CL W Abut	75577.45	12.00	656.75	656.75
A	75587.45	12.00	656.80	656.85
B	75597.45	12.00	656.85	656.93
C	75607.45	12.00	656.90	657.00
D	75617.45	12.00	656.95	657.05
E	75627.45	12.00	657.00	657.08
F	75637.45	12.00	657.05	657.10
G	75647.45	12.00	657.10	657.12
CL Pier 1	75656.18	12.00	657.15	657.15
H	75666.18	12.00	657.20	657.19
I	75676.18	12.00	657.25	657.23
J	75686.18	12.00	657.30	657.28
K	75696.18	12.00	657.35	657.32
L	75706.18	12.00	657.40	657.37
M	75716.18	12.00	657.45	657.41
N	75726.18	12.00	657.50	657.46
O	75736.18	12.00	657.55	657.51
P	75746.18	12.00	657.60	657.57
CL Pier 2	75756.18	12.00	657.65	657.65
Q	75766.18	12.00	657.70	657.74
R	75776.18	12.00	657.75	657.84
S	75786.18	12.00	657.80	657.95
T	75796.18	12.00	657.85	658.06
U	75806.18	12.00	657.90	658.16
V	75816.18	12.00	657.95	658.24
W	75826.18	12.00	658.00	658.31
X	75836.18	12.00	658.05	658.35
Y	75846.18	12.00	658.10	658.37
Z	75856.18	12.00	658.15	658.37
AA	75866.18	12.00	658.20	658.35
AB	75876.18	12.00	658.25	658.32
CL E Abut	75884.92	12.00	658.29	658.29
Bk E Abut	75886.18	12.00	658.30	658.30

**GIRDER 10**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75575.20	17.59	656.66	656.66
CL W Abut	75576.47	17.59	656.66	656.66
A	75586.47	17.59	656.71	656.75
B	75596.47	17.59	656.76	656.84
C	75606.47	17.59	656.81	656.91
D	75616.47	17.59	656.86	656.96
E	75626.47	17.59	656.91	656.99
F	75636.47	17.59	656.96	657.01
G	75646.47	17.59	657.01	657.03
CL Pier 1	75655.20	17.59	657.06	657.06
H	75665.20	17.59	657.11	657.10
I	75675.20	17.59	657.16	657.14
J	75685.20	17.59	657.21	657.19
K	75695.20	17.59	657.26	657.23
L	75705.20	17.59	657.31	657.28
M	75715.20	17.59	657.36	657.32
N	75725.20	17.59	657.41	657.37
O	75735.20	17.59	657.46	657.42
P	75745.20	17.59	657.51	657.48
CL Pier 2	75755.20	17.59	657.56	657.56
Q	75765.20	17.59	657.61	657.64
R	75775.20	17.59	657.66	657.75
S	75785.20	17.59	657.71	657.86
T	75795.20	17.59	657.76	657.97
U	75805.20	17.59	657.81	658.07
V	75815.20	17.59	657.86	658.15
W	75825.20	17.59	657.91	658.21
X	75835.20	17.59	657.96	658.26
Y	75845.20	17.59	658.01	658.28
Z	75855.20	17.59	658.06	658.28
AA	75865.20	17.59	658.11	658.26
AB	75875.20	17.59	658.16	658.23
CL E Abut	75883.93	17.59	658.20	658.20
Bk E Abut	75885.20	17.59	658.21	658.21

FILE NAME = 0063-78134-012-top-of-slab-elev-EB.dgn  
 CB PROJECT NO. 04065



USER NAME = .MML.	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 12 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	465
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

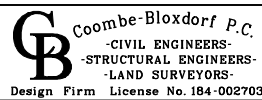
**GIRDER 11**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75573.93	24.76	656.53	656.53
CL W Abut	75575.20	24.76	656.54	656.54
A	75585.20	24.76	656.59	656.63
B	75595.20	24.76	656.64	656.71
C	75605.20	24.76	656.69	656.78
D	75615.20	24.76	656.74	656.83
E	75625.20	24.76	656.79	656.87
F	75635.20	24.76	656.84	656.89
G	75645.20	24.76	656.89	656.91
CL Pier 1	75653.93	24.76	656.93	656.93
H	75663.93	24.76	656.98	656.97
I	75673.93	24.76	657.03	657.02
J	75683.93	24.76	657.08	657.06
K	75693.93	24.76	657.13	657.11
L	75703.93	24.76	657.18	657.16
M	75713.93	24.76	657.23	657.20
N	75723.93	24.76	657.28	657.25
O	75733.93	24.76	657.33	657.30
P	75743.93	24.76	657.38	657.36
CL Pier 2	75753.93	24.76	657.43	657.43
Q	75763.93	24.76	657.48	657.52
R	75773.93	24.76	657.53	657.63
S	75783.93	24.76	657.58	657.74
T	75793.93	24.76	657.63	657.85
U	75803.93	24.76	657.68	657.95
V	75813.93	24.76	657.73	658.03
W	75823.93	24.76	657.78	658.09
X	75833.93	24.76	657.83	658.13
Y	75843.93	24.76	657.88	658.15
Z	75853.93	24.76	657.93	658.15
AA	75863.93	24.76	657.98	658.14
AB	75873.93	24.76	658.03	658.11
CL E Abut	75882.67	24.76	658.08	658.08
Bk E Abut	75883.93	24.76	658.08	658.08

**GIRDER 12**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W Abut	75572.67	31.93	656.38	656.38
CL W Abut	75573.94	31.93	656.38	656.38
A	75583.94	31.93	656.43	656.48
B	75593.94	31.93	656.48	656.56
C	75603.94	31.93	656.53	656.63
D	75613.94	31.93	656.58	656.68
E	75623.94	31.93	656.63	656.71
F	75633.94	31.93	656.68	656.74
G	75643.94	31.93	656.73	656.75
CL Pier 1	75652.67	31.93	656.78	656.78
H	75662.67	31.93	656.83	656.82
I	75672.67	31.93	656.88	656.86
J	75682.67	31.93	656.93	656.91
K	75692.67	31.93	656.98	656.95
L	75702.67	31.93	657.03	657.00
M	75712.67	31.93	657.08	657.04
N	75722.67	31.93	657.13	657.09
O	75732.67	31.93	657.18	657.14
P	75742.67	31.93	657.23	657.20
CL Pier 2	75752.67	31.93	657.28	657.28
Q	75762.67	31.93	657.33	657.37
R	75772.67	31.93	657.38	657.47
S	75782.67	31.93	657.43	657.58
T	75792.67	31.93	657.48	657.69
U	75802.67	31.93	657.53	657.79
V	75812.67	31.93	657.58	657.87
W	75822.67	31.93	657.63	657.94
X	75832.67	31.93	657.68	657.98
Y	75842.67	31.93	657.73	658.00
Z	75852.67	31.93	657.78	658.00
AA	75862.67	31.93	657.83	657.98
AB	75872.67	31.93	657.88	657.95
CL E Abut	75881.40	31.93	657.92	657.92
Bk E Abut	75882.67	31.93	657.93	657.93

FILE NAME = 036-0062-78134-013-top-of-slab-elev-EB.dgn  
 USER = MML  
 PROJECT NO. 04065



USER NAME = MML	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0:2' = 1" / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 13 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	466
			CONTRACT NO. 68409	
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75549.35	-6.00	656.30
E	75559.35	-6.00	656.35
F	75569.35	-6.00	656.40
E. End W. Approach	75579.35	-6.00	656.45

NORTH EDGE OF PAVEMENT & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75548.30	0.00	656.42
E	75558.30	0.00	656.47
F	75568.30	0.00	656.52
E. End W. Approach	75578.30	0.00	656.57

☉ EB LANES

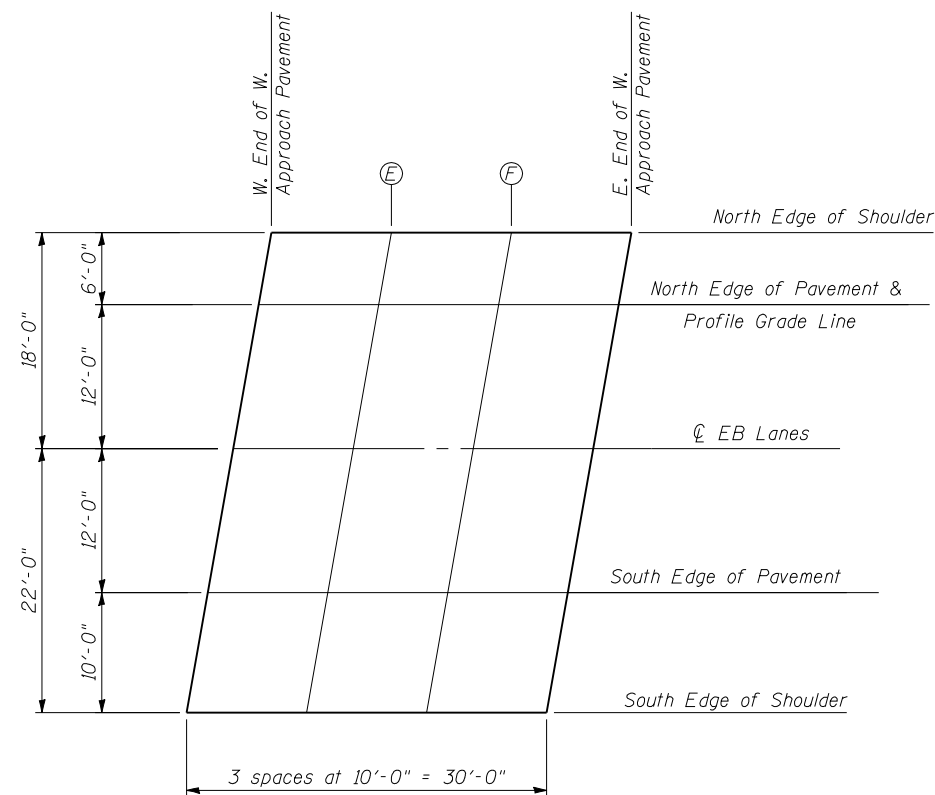
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75546.18	12.00	656.60
E	75556.18	12.00	656.65
F	75566.18	12.00	656.70
E. End W. Approach	75576.18	12.00	656.75

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75544.06	24.00	656.40
E	75554.06	24.00	656.45
F	75564.06	24.00	656.50
E. End W. Approach	75574.06	24.00	656.55

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach	75542.30	34.00	656.18
E	75552.30	34.00	656.23
F	75562.30	34.00	656.28
E. End W. Approach	75572.30	34.00	656.33



PLAN

FILE NAME = \\063-78134-014-tos\Mappr-EB.dgn  
 USER = MML  
 PLOT DATE = 10/16/2012  
 CB PROJECT NO. 04065

E-AS

7-1-10

**Coombes-Bloxdorf P.C.**  
 - CIVIL ENGINEERS -  
 - STRUCTURAL ENGINEERS -  
 - LAND SURVEYORS -  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
CHECKED - MCB	REVISIONS -	
PLOT SCALE = 1/8" = 1' / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - WEST APPROACH SLAB  
 STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 14 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	467
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

NORTH EDGE OF SHOULDER

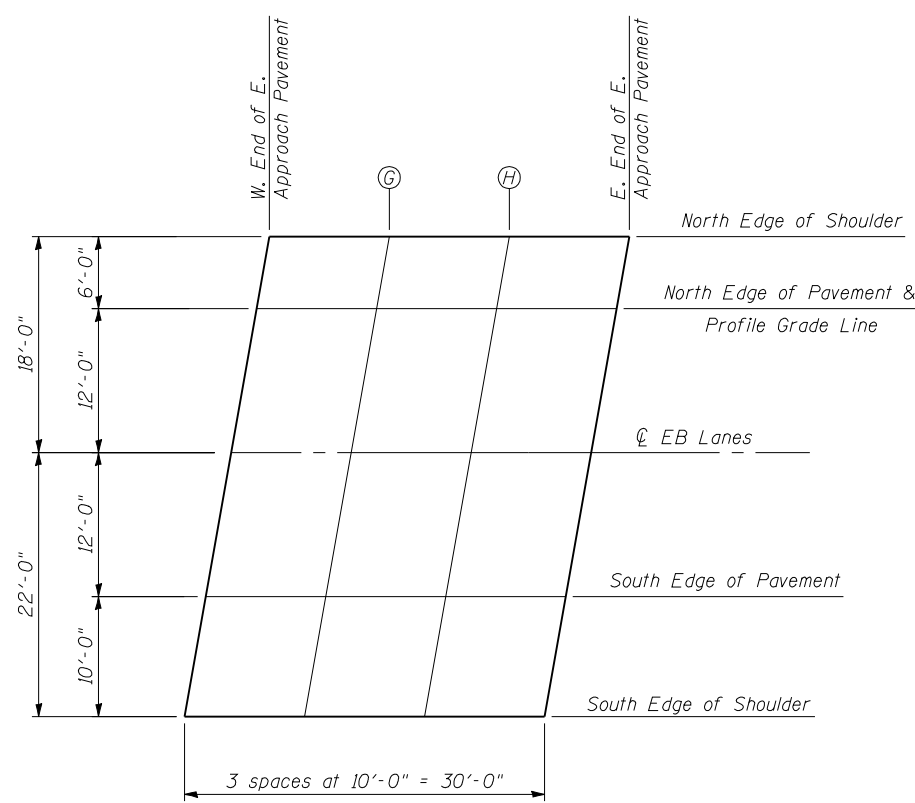
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75889.35	-6.00	658.00
G	75899.35	-6.00	658.05
H	75909.35	-6.00	658.10
E. End E. Approach	75919.35	-6.00	658.15

NORTH EDGE OF PAVEMENT & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75888.30	0.00	658.12
G	75898.30	0.00	658.17
H	75908.30	0.00	658.22
E. End E. Approach	75918.30	0.00	658.27

CL EB LANES

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75886.18	12.00	658.30
G	75896.18	12.00	658.35
H	75906.18	12.00	658.40
E. End E. Approach	75916.18	12.00	658.45



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75884.06	24.00	658.10
G	75894.06	24.00	658.15
H	75904.06	24.00	658.20
E. End E. Approach	75914.06	24.00	658.25

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach	75882.30	34.00	657.88
G	75892.30	34.00	657.93
H	75902.30	34.00	657.98
E. End E. Approach	75912.30	34.00	658.03

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USER = MML  
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E-AS

7-1-10

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- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = MML	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - EAST APPROACH SLAB  
STRUCTURE NO. 036-0062 (E.B.)**

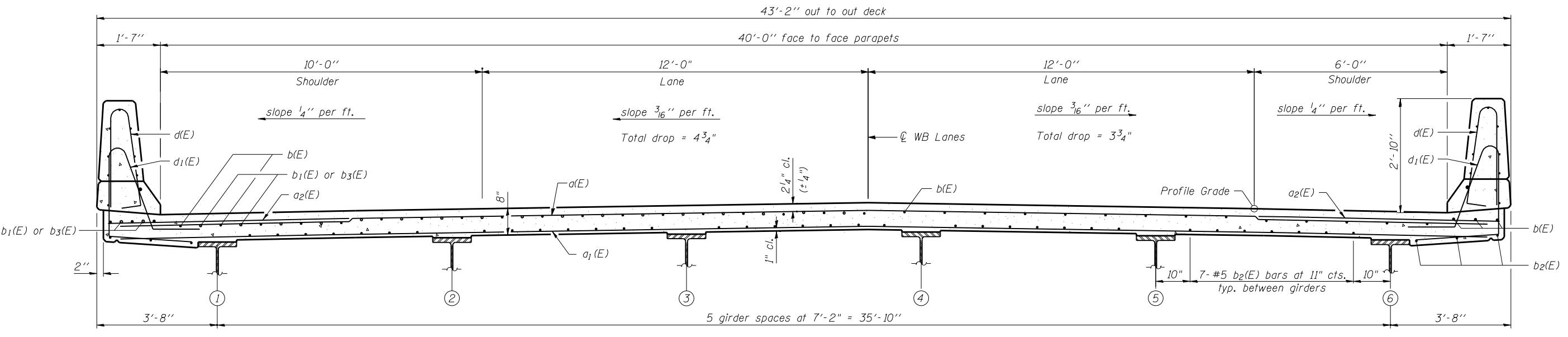
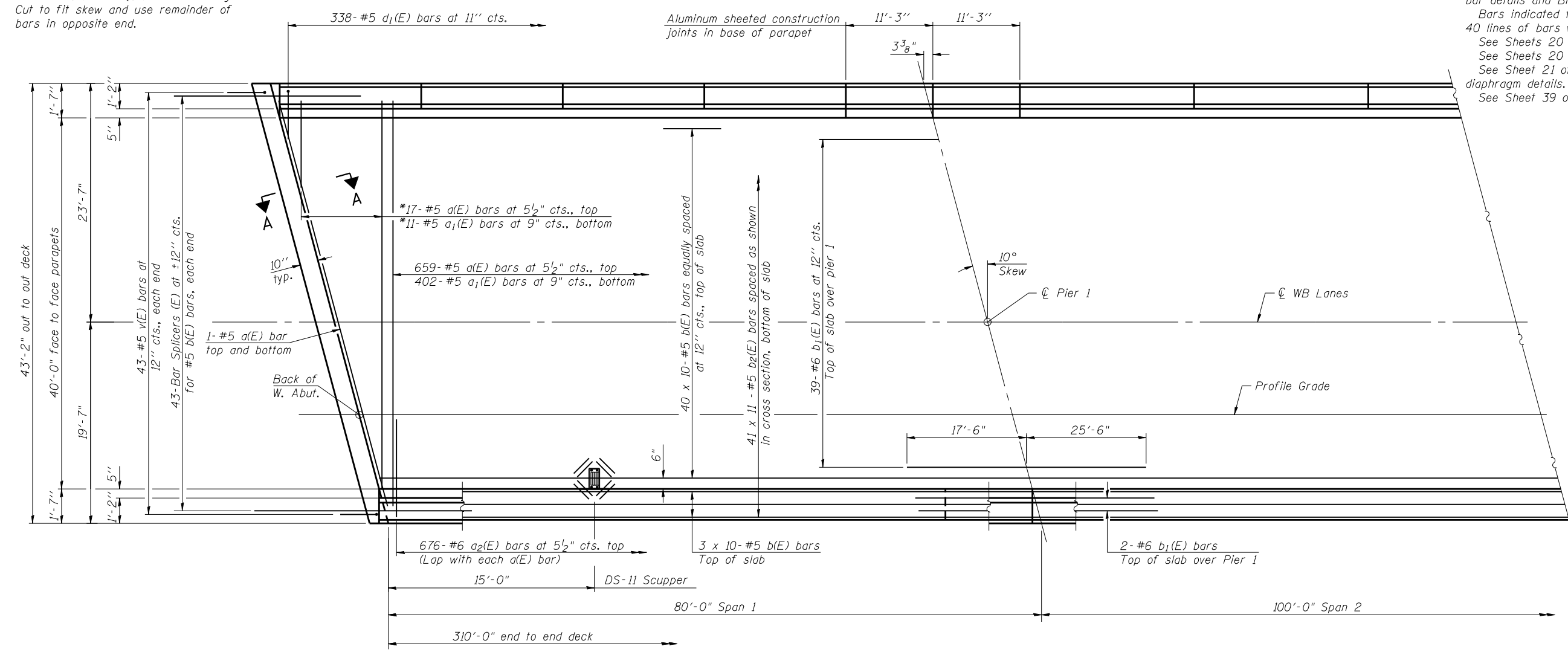
SHEET NO. 15 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 468
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

\* Order a(E) and a<sub>1</sub>(E) bars full length.  
Cut to fit skew and use remainder of bars in opposite end.

Notes:  
See Sheet 20 of 45 for superstructure details, bar details and Bill of Material.  
Bars indicated thus 40 x 10-#5 etc. indicates 40 lines of bars with 10 lengths per line.  
See Sheets 20 of 45 for parapet reinforcement.  
See Sheets 20 and 25 of 45 for scupper details.  
See Sheet 21 of 45 for Section A-A and diaphragm details.  
See Sheet 39 of 45 for Bar Splicer Assembly Details.



FILE NAME = 0363-78134-015-superstructure\_MB.dgn  
USER = MML  
PROJECT NO. 04065

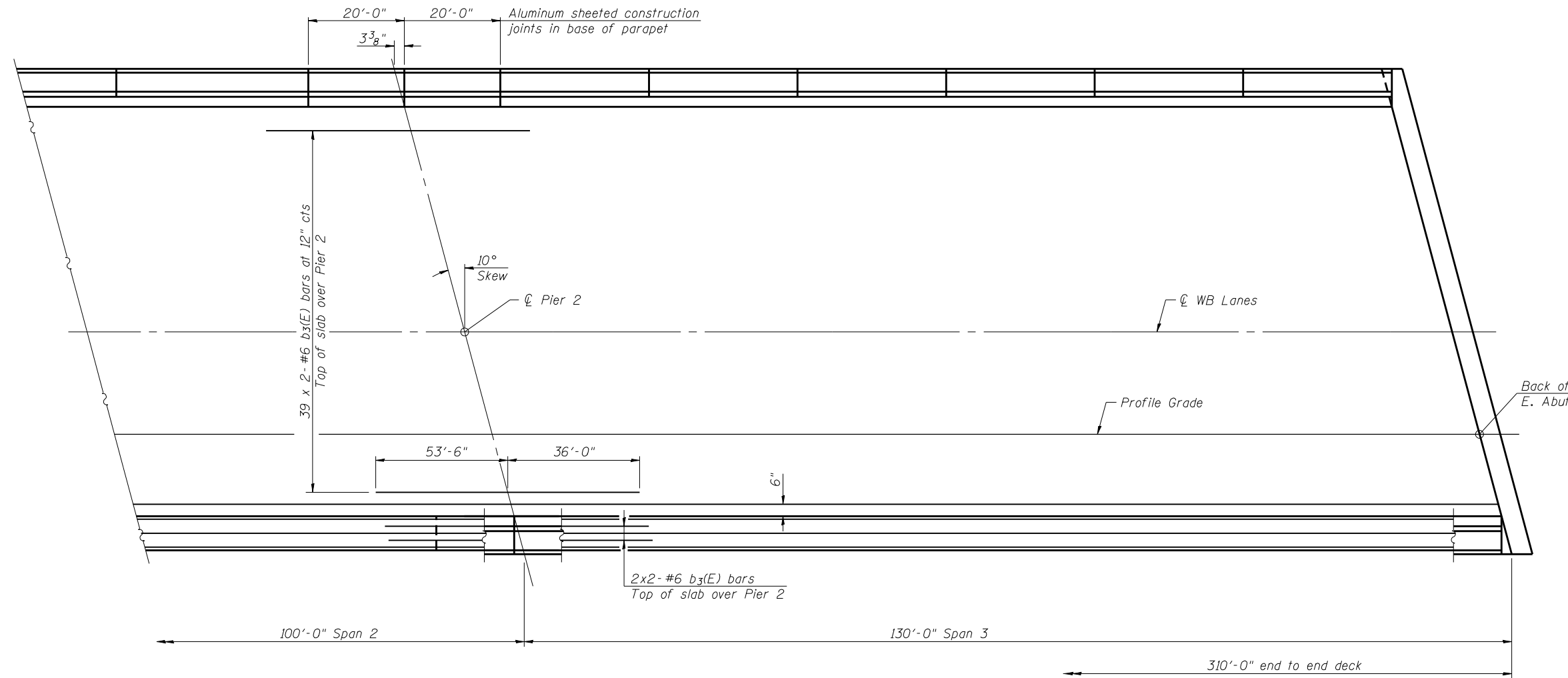
**SI-2-R**  
1-27-12  
**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 036-0063 (W.B.)**  
SHEET NO. 16 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 469
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**MIN. BAR LAP**  
#6 bars 3'-1"

**PARTIAL PLAN**

Notes:  
See Sheet 20 of 45 for superstructure details and Bill of Material.  
Bars indicated thus 39 x 2-#6 etc. indicates 39 lines of bars with 2 lengths per line.  
See Sheet 20 of 45 for parapet reinforcement.  
See Sheets 20 and 25 of 45 for scupper details.

FILE NAME = 036-063-78134-017-superstructure.WB.dgn  
USER = MML  
PLOT DATE = 10/16/2012

SI-2-R

1-27-12

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Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0:2' = 1" / IN.	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

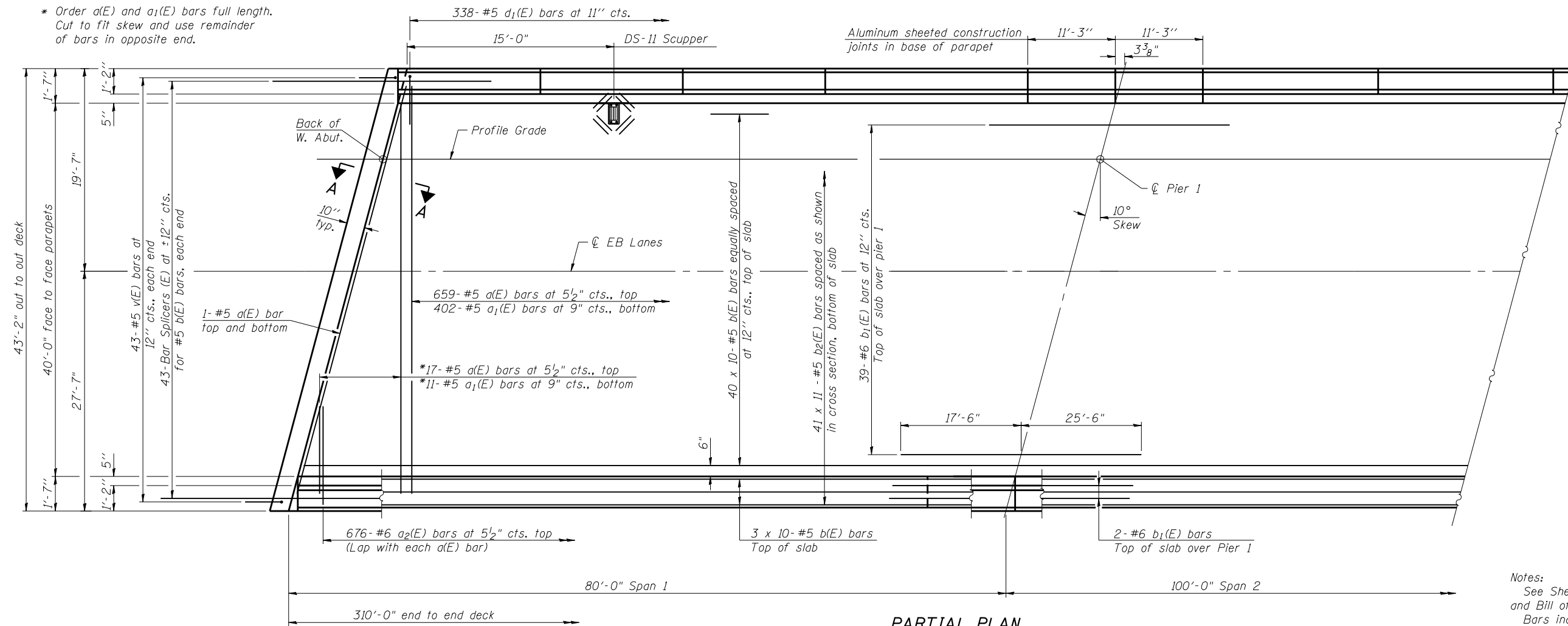
**SUPERSTRUCTURE**  
**STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 17 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	470
<b>CONTRACT NO. 68409</b>				

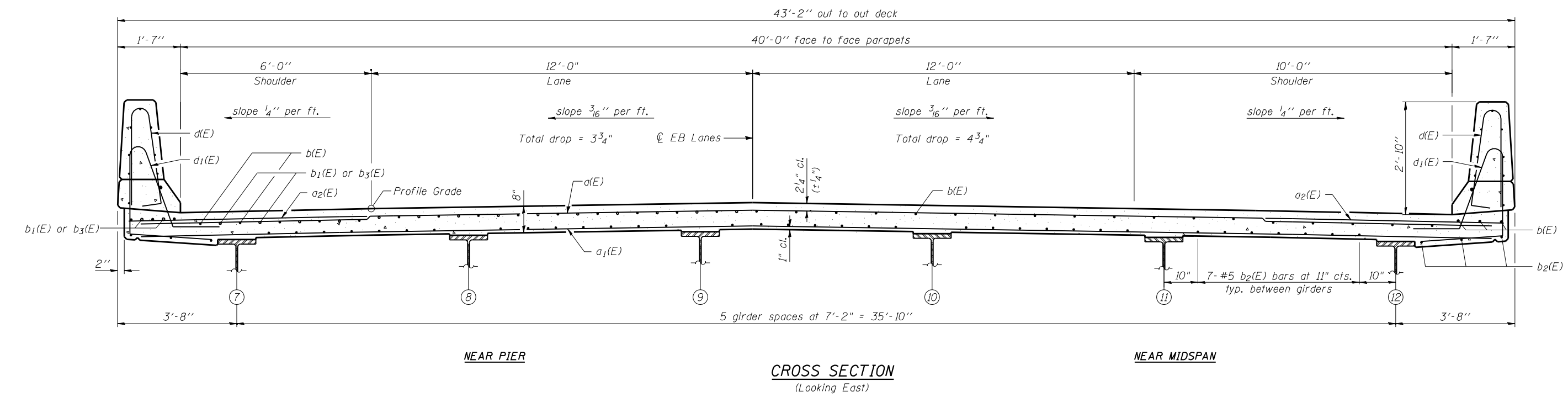
ILLINOIS FED. AID PROJECT

\* Order a(E) and a<sub>1</sub>(E) bars full length.  
Cut to fit skew and use remainder  
of bars in opposite end.



**MIN. BAR LAPS**  
#5 bars 2'-7"

Notes:  
See Sheet 20 of 45 for superstructure details and Bill of Material.  
Bars indicated thus 40 x 10-#5 etc. indicates 40 lines of bars with 10 lengths per line.  
See Sheet 20 of 45 for parapet reinforcement.  
See Sheets 20 and 25 of 45 for scupper details.  
See Sheet 21 of 45 for Section A-A and diaphragm details.



FILE NAME = 0063-78134-018-Superstructure\_EB.dgn  
PROJECT NO. 04065

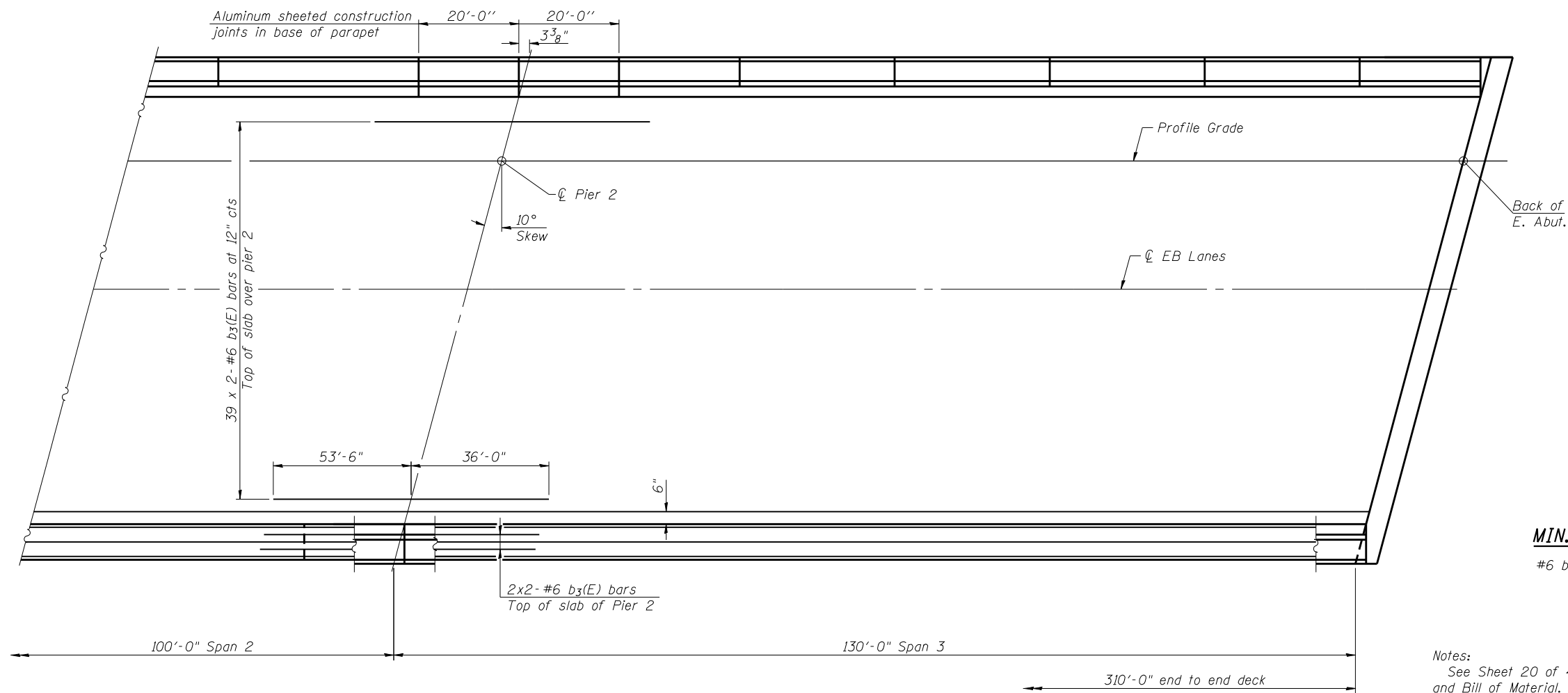
SI-2-L  
1-27-12  
**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 036-0062 (E.B.)**  
SHEET NO. 18 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	471
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**PARTIAL PLAN**

**MIN. BAR LAP**

#6 bars 3'-1"

Notes:  
 See Sheet 20 of 45 for superstructure details and Bill of Material.  
 Bars indicated thus 39 x 2-#6 etc. indicates 39 lines of bars with 2 lengths per line.  
 See Sheet 20 of 45 for parapet reinforcement.  
 See Sheets 20 and 25 of 45 for scupper details.

FILE NAME = 036-0062-78134-019-superstructure.EB.dgn  
 CB PROJECT NO. 04065

SI-2-L

1-27-12

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USER NAME = .MML.	DESIGNED - CME	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0:2 1/4" = 1"	DRAWN - MML	REVISED -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISED -

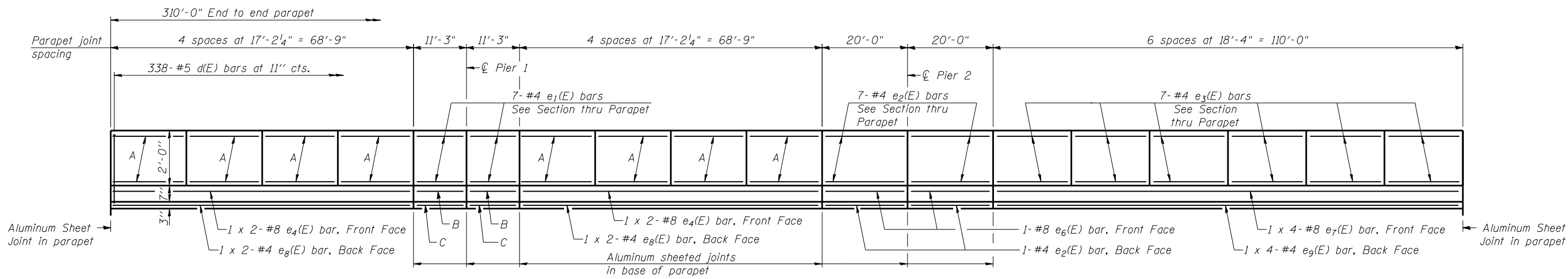
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE  
 STRUCTURE NO. 036-0062 (E.B.)**

SHEET NO. 19 OF 45 SHEETS

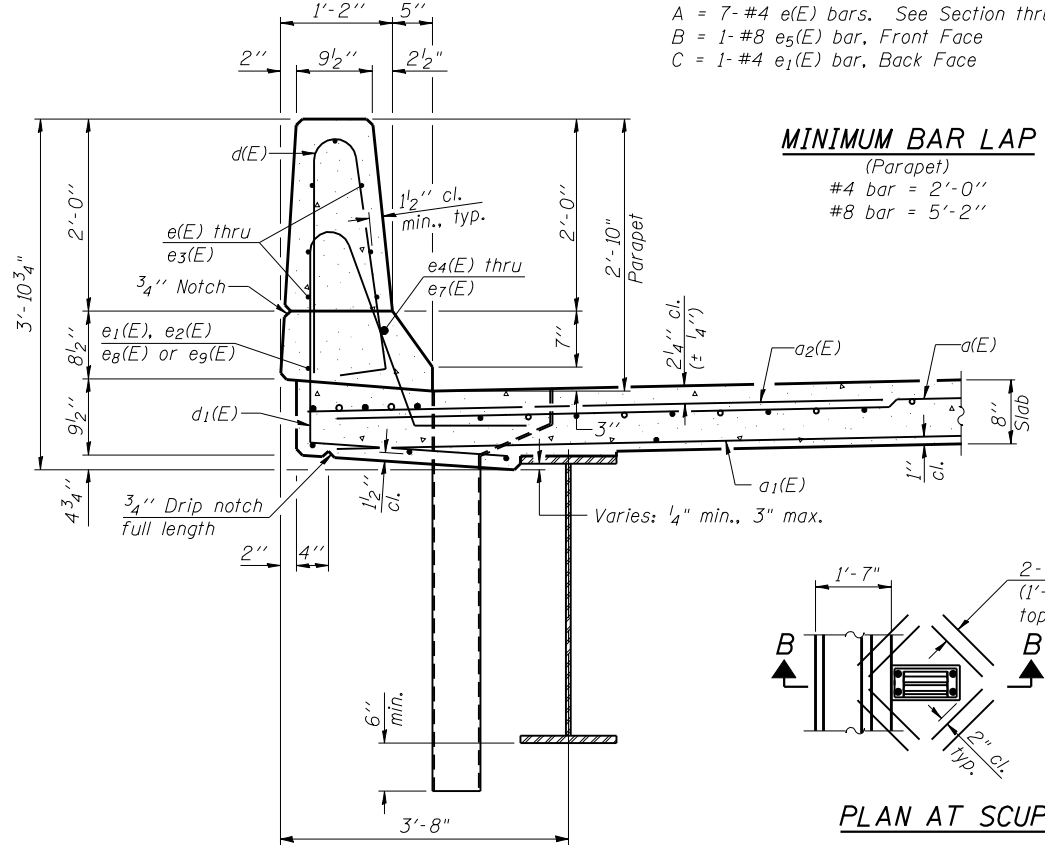
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	472
			CONTRACT NO. 68409	
ILLINOIS FED. AID PROJECT				





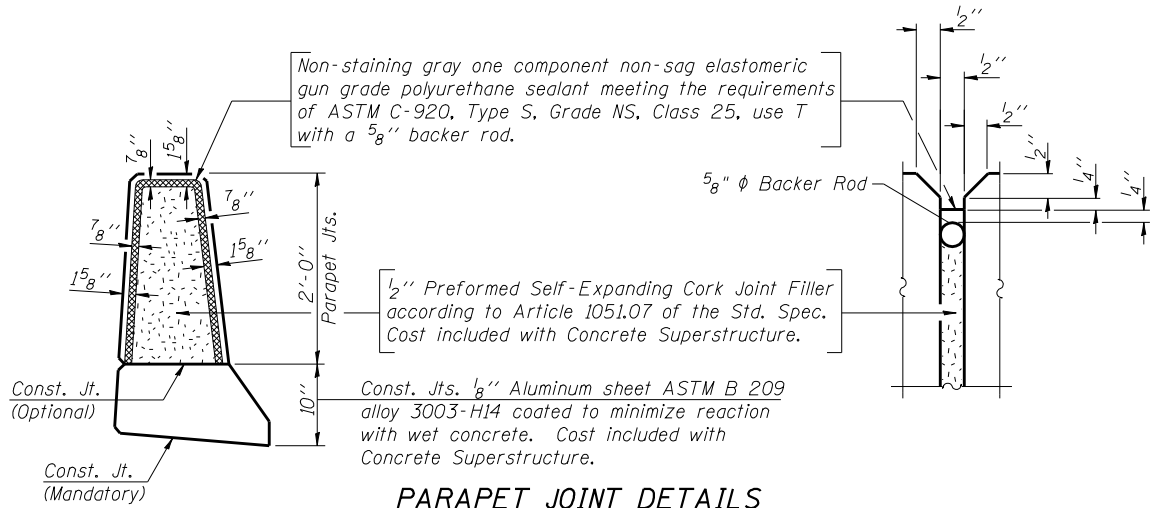
A = 7-#4 e(E) bars. See Section thru Parapet  
 B = 1-#8 e5(E) bar, Front Face  
 C = 1-#4 e1(E) bar, Back Face

**INSIDE ELEVATION OF N PARAPETS**

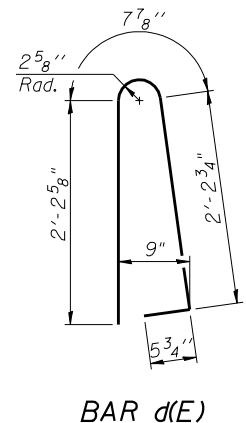


**SECTION B-B THRU PARAPET AT SCUPPER**

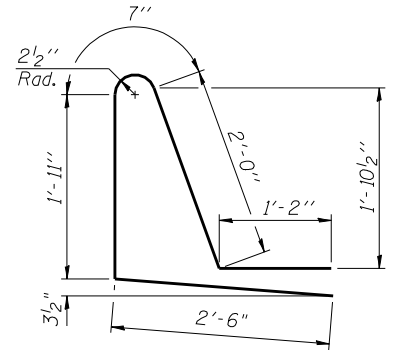
**MINIMUM BAR LAP**  
 (Parapet)  
 #4 bar = 2'-0"  
 #8 bar = 5'-2"



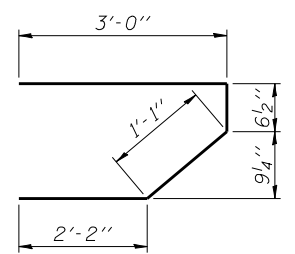
**PARAPET JOINT DETAILS**



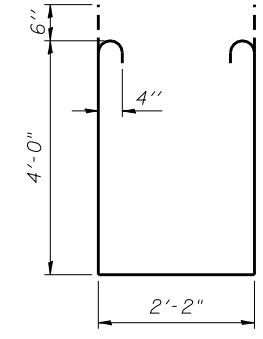
**BAR d(E)**



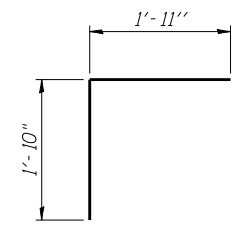
**BAR d1(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR v(E)**

**BILL OF MATERIAL TWO SUPERSTRUCTURES**

Bar	No.	Size	Length	Shape
a(E)	1360	#5	42'-6"	—
a1(E)	826	#5	41'-10"	—
a2(E)	2704	#6	6'-6"	—
a3(E)	32	#5	1'-6"	—
b(E)	920	#5	33'-4"	—
b1(E)	86	#6	43'-0"	—
b2(E)	902	#5	30'-6"	—
b3(E)	172	#6	46'-8"	—
d(E)	1352	#5	5'-7"	U
d1(E)	1352	#5	8'-2"	U
e(E)	224	#4	16'-10"	—
e1(E)	64	#4	10'-11"	—
e2(E)	64	#4	19'-8"	—
e3(E)	168	#4	18'-0"	—
e4(E)	16	#8	36'-10"	—
e5(E)	8	#8	10'-11"	—
e6(E)	8	#8	19'-8"	—
e7(E)	16	#8	31'-4"	—
e8(E)	16	#4	35'-3"	—
e9(E)	16	#4	28'-11"	—
m(E)	20	#6	43'-6"	—
m1(E)	48	#6	10'-8"	—
m2(E)	20	#6	6'-11"	—
m3(E)	8	#6	3'-4"	—
s(E)	164	#5	6'-10"	—
s1(E)	144	#4	11'-2"	—
v(E)	172	#5	3'-9"	—
Reinforcement Bars, Epoxy Coated		Pound	235,790	
Concrete Superstructure		Cu. Yds.	908.8	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

FILE NAME = 0363-78134-029-superstr-dwt.dgn  
 CB PROJECT NO. 04065

**S-I-D**  
 1-27-12  
**Coombe-Bloxdorf P.C.**  
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 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

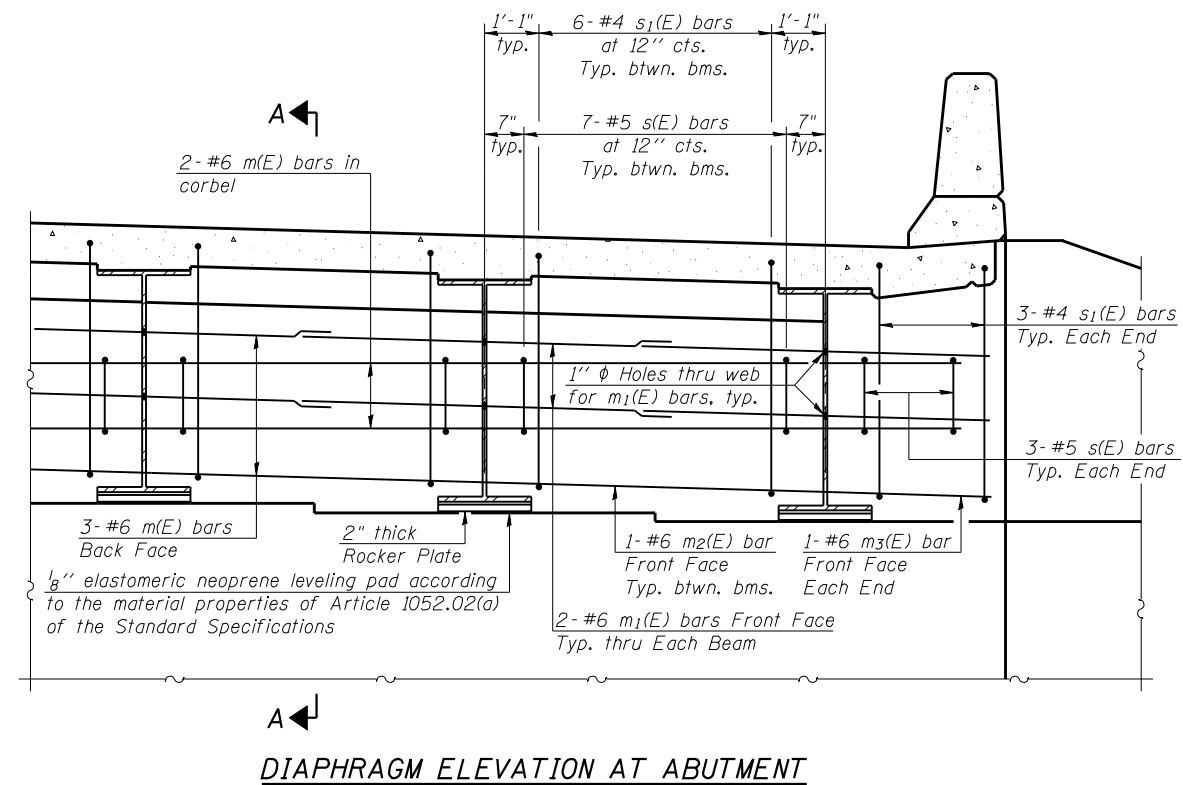
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 20 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 473
CONTRACT NO. 68409				

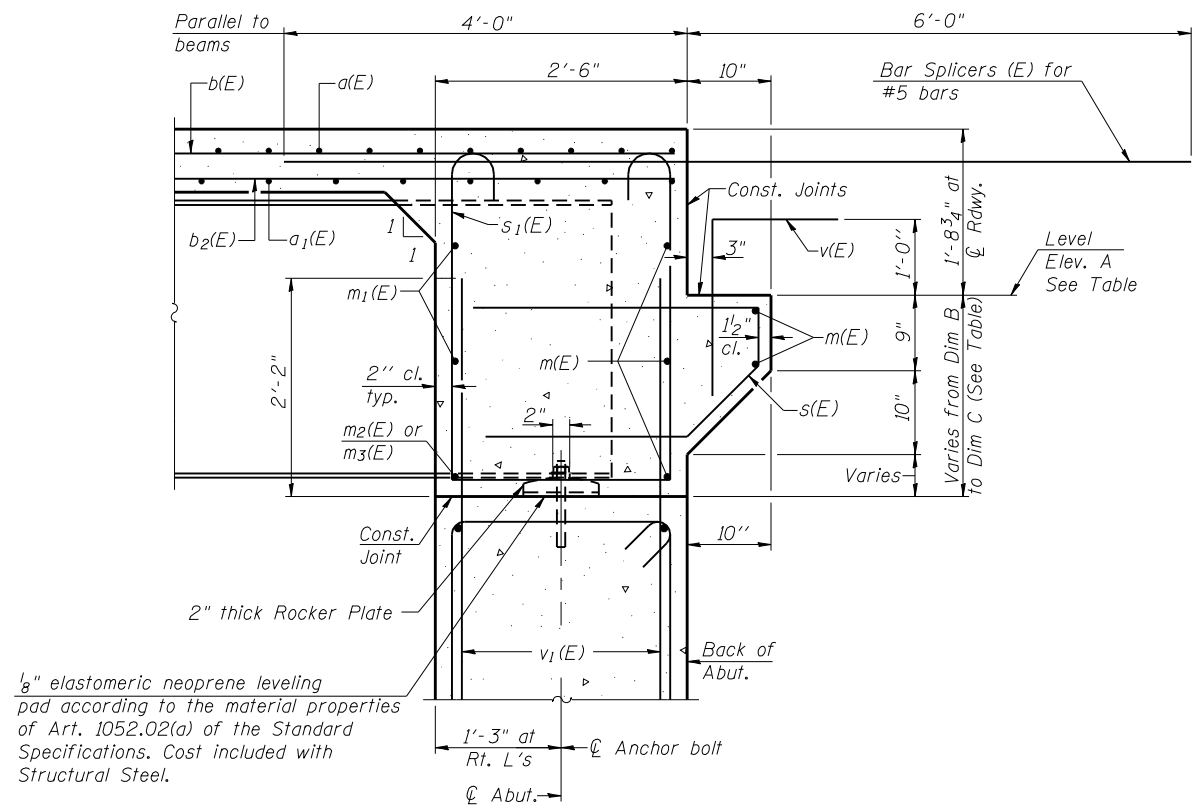
ILLINOIS FED. AID PROJECT



**DIAPHRAGM ELEVATION AT ABUTMENT**

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 20 of 45.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 20 of 45.  
 For details of bars s(E) & s<sub>1</sub>(E) see sheet 20 of 45.  
 The s(E) and s<sub>1</sub>(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

**MIN. BAR LAP**  
 #6 bar = 3'-4"



**SECTION A-A**  
 Dimensions at right angles to abutment, except as shown.

**ELEVATION AND DIMENSION TABLE**

Location	Elev. A	Dim B	Dim C
W Abut WB	655.00	2'-10"	3'-2"
E Abut WB	656.53	2'-10 7/8"	3'-3"
W Abut EB	655.02	2'-9 7/8"	3'-2"
E Abut EB	656.57	2'-11"	3'-3 7/8"

FILE NAME = 0363-78134-021-diaphr-egm.dgn  
 CB PROJECT NO. 04065

SI-DSI

1-27-12

**Coome-Bloxdorf P.C.**  
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 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.  
 CHECKED - MCB  
 DRAWN - MML  
 PLOT SCALE = 0.2" = 1' / IN.  
 PLOT DATE = 10/16/2012

DESIGNED - CME  
 CHECKED - MCB  
 DRAWN - MML  
 CHECKED - MCB

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTEGRAL ABUTMENT DIAPHRAGM DETAILS  
 STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

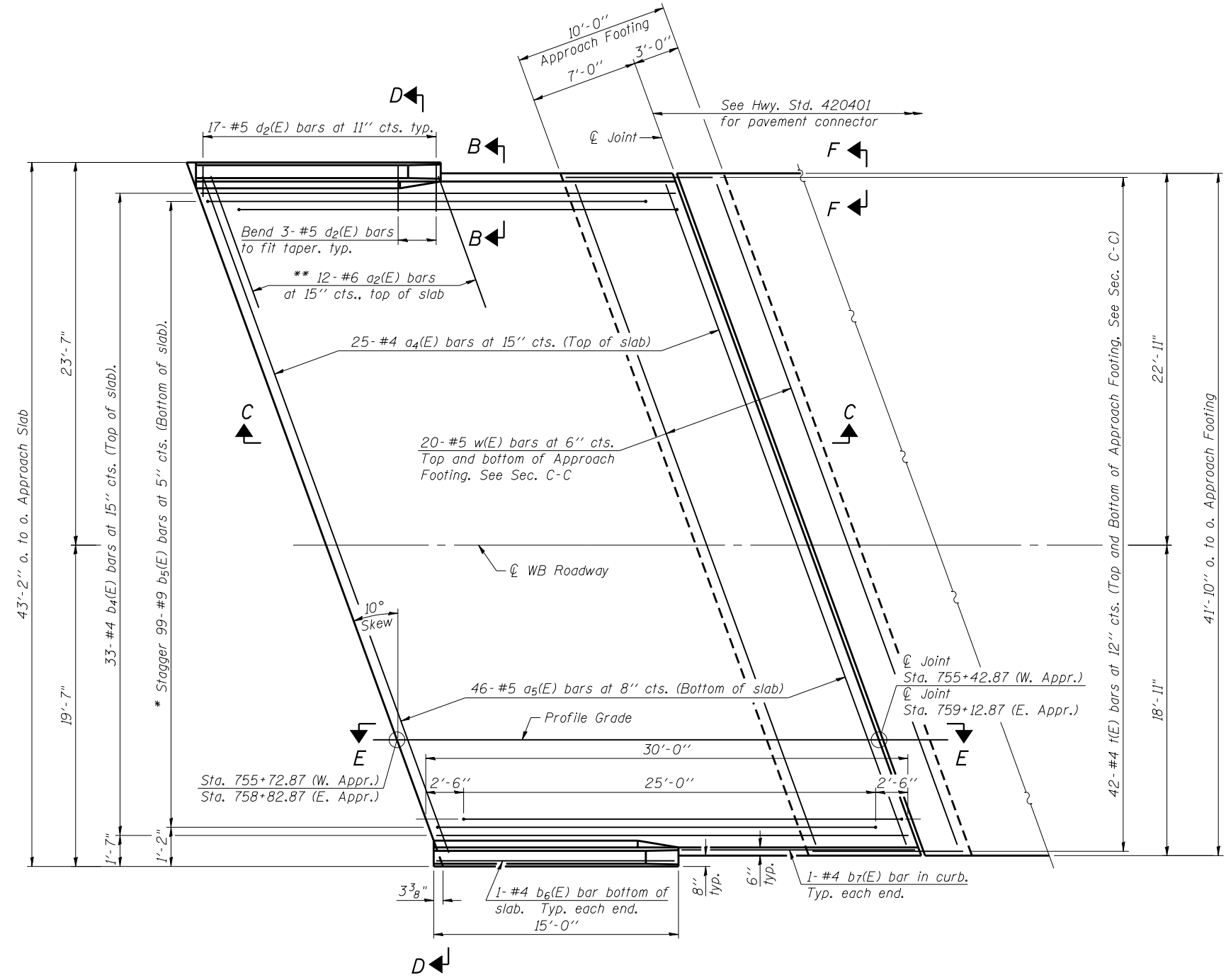
SHEET NO. 21 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	474
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

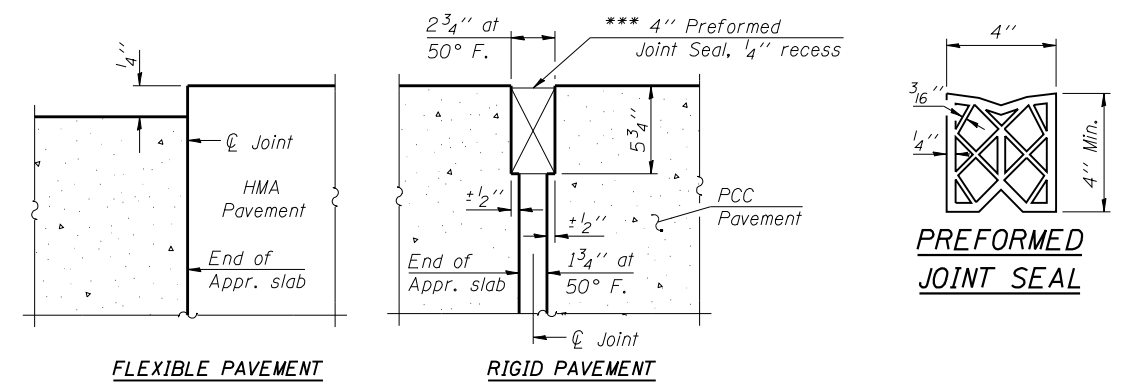
Notes:  
See sheet 24 of 45 for Sections C-C & D-D and View E-E.  
a<sub>4</sub>(E) and a<sub>5</sub>(E) bar spacings measured along  $\varnothing$  Rdwy.

\*\*\* Cost included with Concrete Superstructure.

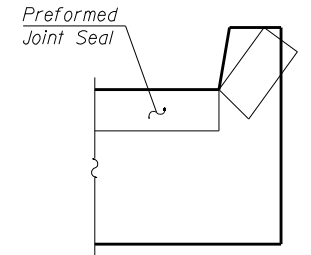


PLAN

\* Tilt #9 b<sub>5</sub>(E) bars as required to maintain clearance.  
\*\* Space between a<sub>4</sub>(E) bars, typ. each parapet.

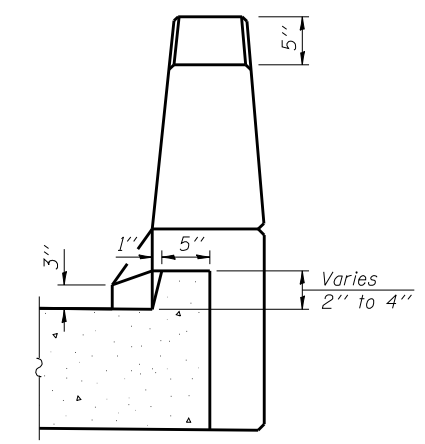


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

BA-R

1-27-12

(Sheet 1 of 3)

FILE NAME: 036-063-78134-822-appro-plan-wb.dgn  
PROJECT NO. 04065

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- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 11/28/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

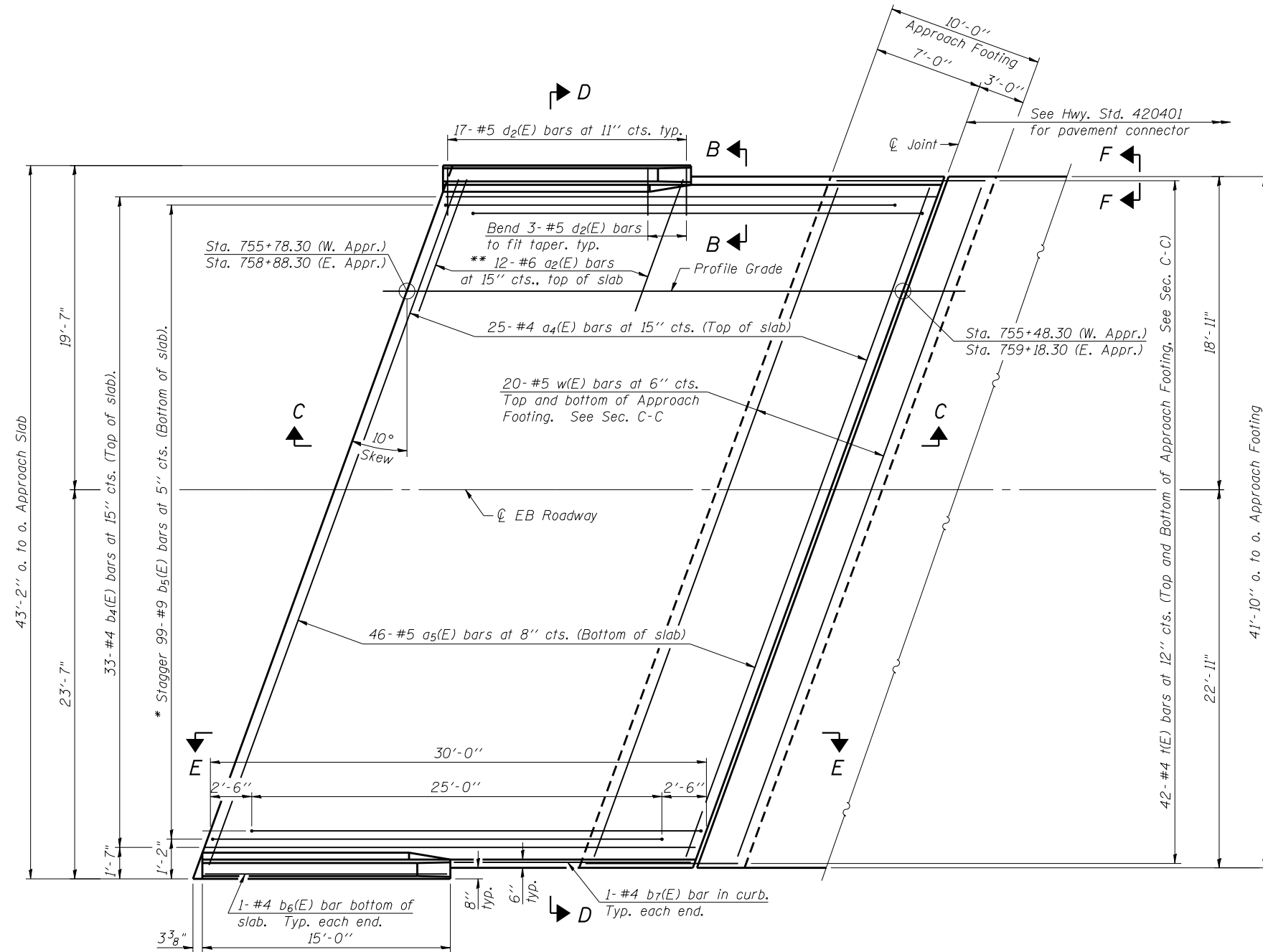
**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 22 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	475
CONTRACT NO. 68409				

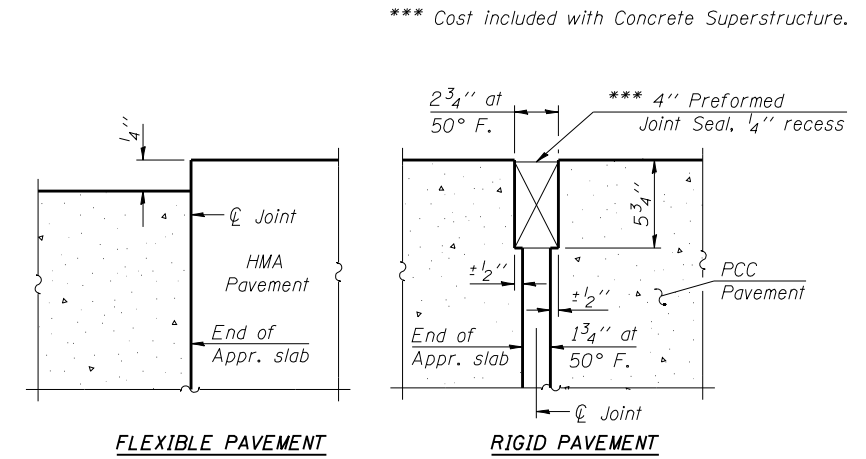
ILLINOIS FED. AID PROJECT

Notes:  
See sheet 24 of 45 for Sections C-C & D-D and View E-E.  
a<sub>4</sub>(E) and a<sub>5</sub>(E) bar spacings measured along  $\phi$  Rdwy.

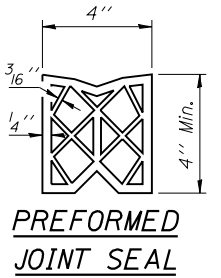


**PLAN**

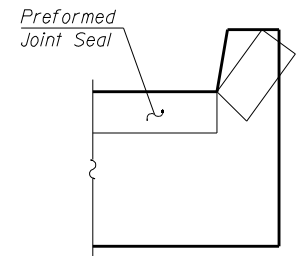
\* Tilt #9 b<sub>5</sub>(E) bars as required to maintain clearance.  
\*\* Space between a<sub>4</sub>(E) bars, typ. each parapet.



**DETAIL A**

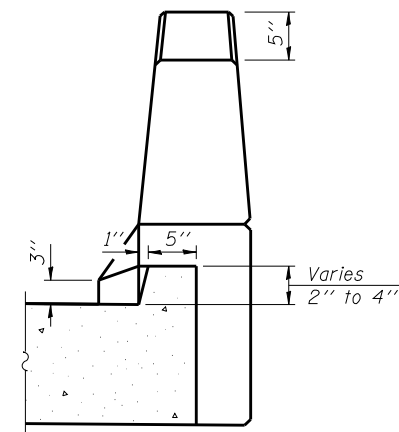


**PREFORMED JOINT SEAL**



**VIEW F-F**

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



**VIEW B-B**

BA-L

1-27-12

(Sheet 2 of 3)

FILE NAME = 036-062-78134-023-app-plan-EB.dgn  
CB PROJECT NO. 04065

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- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.  
PLOT SCALE = 0.25" = 1' / IN.  
PLOT DATE = 11/28/2012

DESIGNED - CME  
CHECKED - MCB  
DRAWN - MML  
CHECKED - MCB

REVISED -  
REVISED -  
REVISED -  
REVISED -

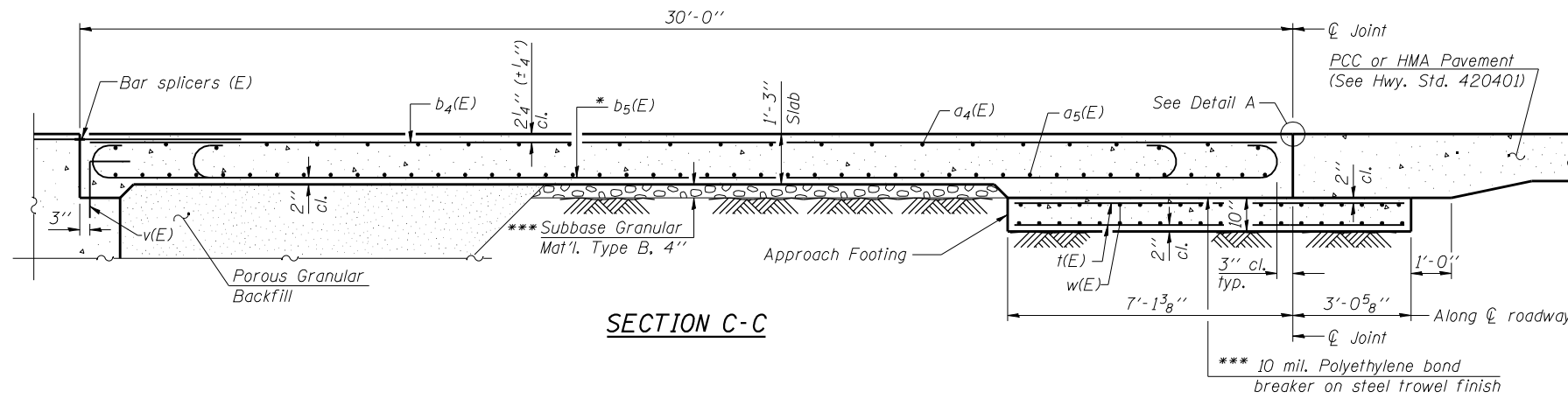
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 036-0062 (E.B.)**

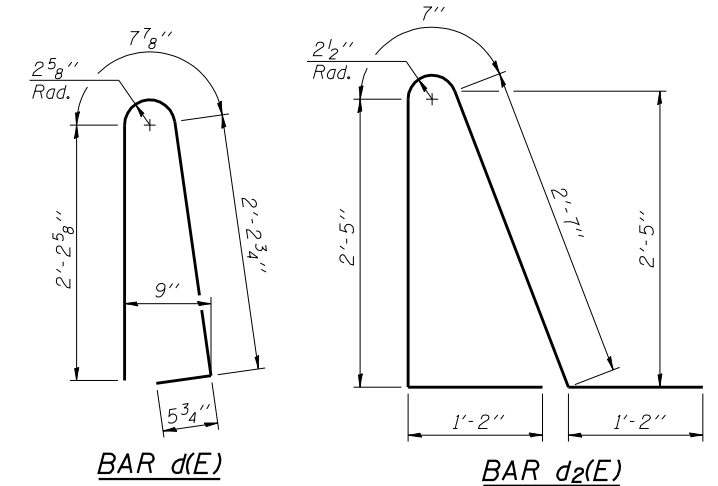
SHEET NO. 23 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	476
CONTRACT NO. 68409				

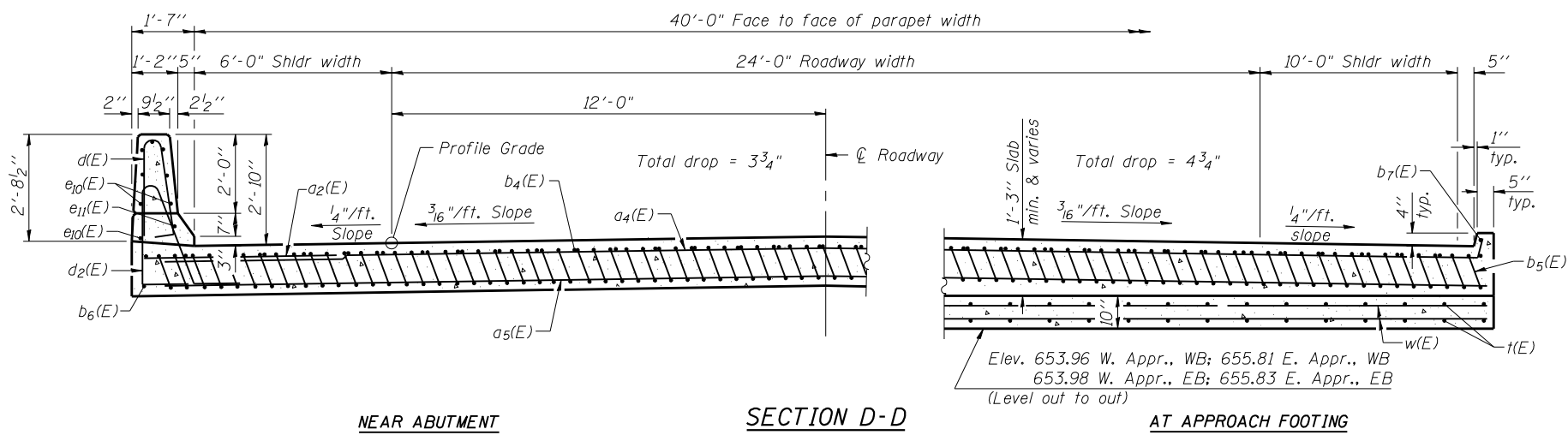
ILLINOIS FED. AID PROJECT



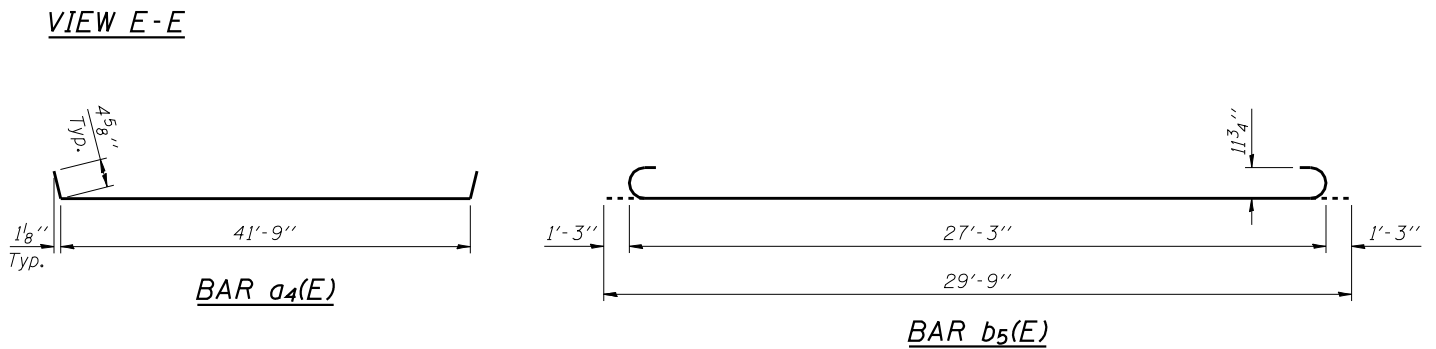
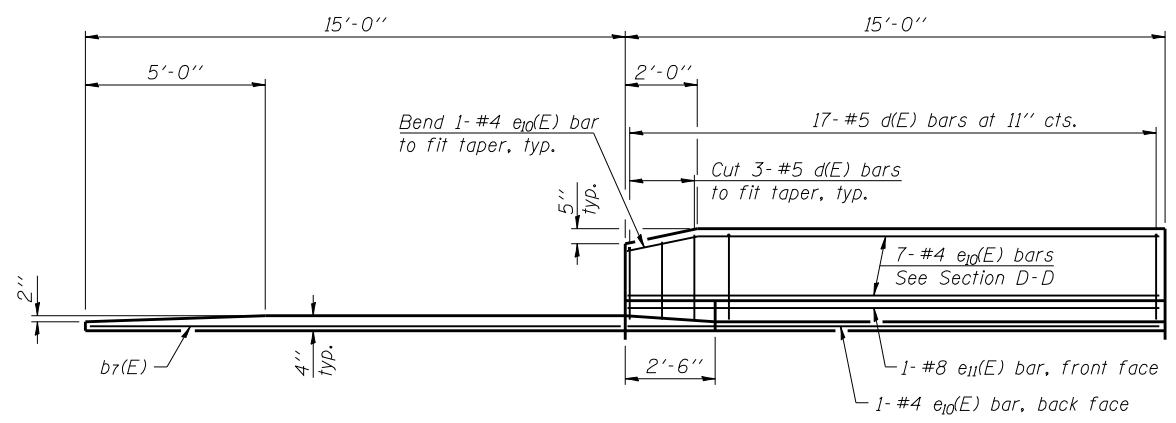
Notes:  
 See sheet 22 and 23 of 45 for Detail A and View B-B.  
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 20 of 45.  
 The approach footing maximum applied service bearing pressure (Q<sub>max</sub>) = 2.0 ksf.  
 For bar splicer details, see sheet 39 of 45.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Porous Granular Backfill and drainage treatment details, see sheet 2 of 45.  
 For additional parapet details, see sheet 20 of 45.



\* Tilt #9 b<sub>5</sub>(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.



NEAR ABUTMENT SECTION D-D AT APPROACH FOOTING  
 (See Plan for dimensions not shown)



FOUR APPROACHES  
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a <sub>2</sub> (E)	96	#6	6'-6"	—
a <sub>4</sub> (E)	100	#4	42'-7"	—
a <sub>5</sub> (E)	184	#5	42'-2"	—
b <sub>4</sub> (E)	132	#4	29'-8"	—
b <sub>5</sub> (E)	396	#9	29'-9"	—
b <sub>6</sub> (E)	8	#4	14'-8"	—
b <sub>7</sub> (E)	8	#4	14'-9"	—
d(E)	136	#5	5'-7"	—
d <sub>2</sub> (E)	136	#5	7'-11"	—
e <sub>10</sub> (E)	64	#4	14'-8"	—
e <sub>11</sub> (E)	8	#8	14'-8"	—
t(E)	336	#4	9'-10"	—
w(E)	160	#5	42'-2"	—
Concrete Superstructure			Cu. Yd.	264.8
Concrete Structures			Cu. Yd.	52.2
Reinforcement Bars, Epoxy Coated			Pound	66,800

See Note A:  
 Note A: 57,560 lbs (Superstructure)  
 9240 lbs (Substructure)

FILE NAME = 0363-0063-78134-024-appr-det.dgn  
 CB PROJECT NO. 04065

BA-L  
 1-27-12  
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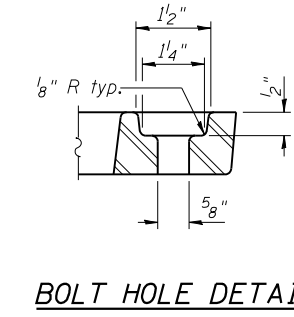
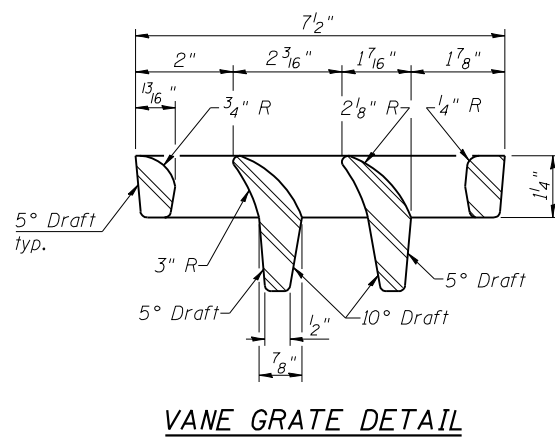
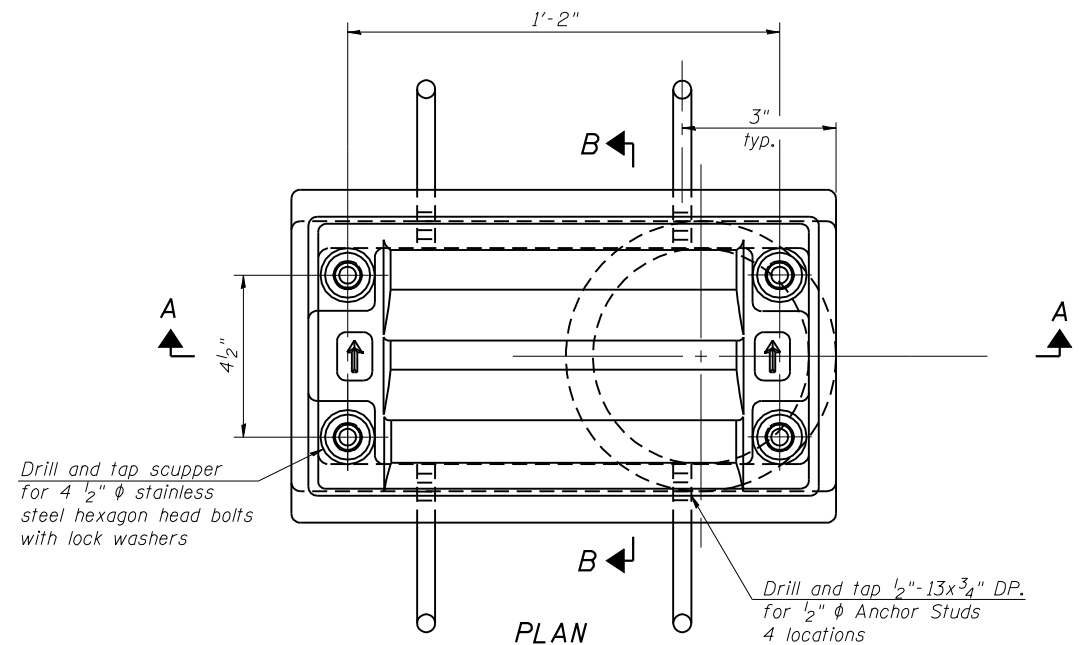
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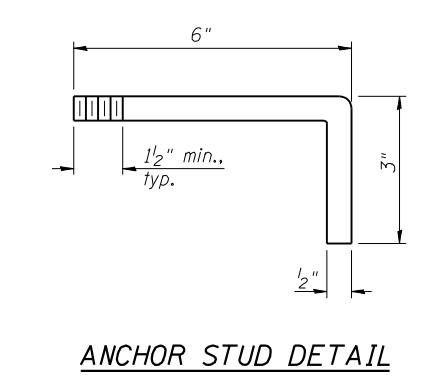
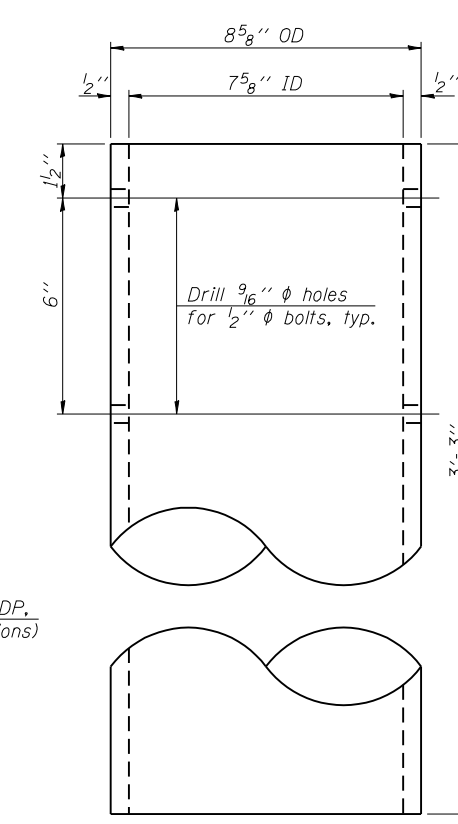
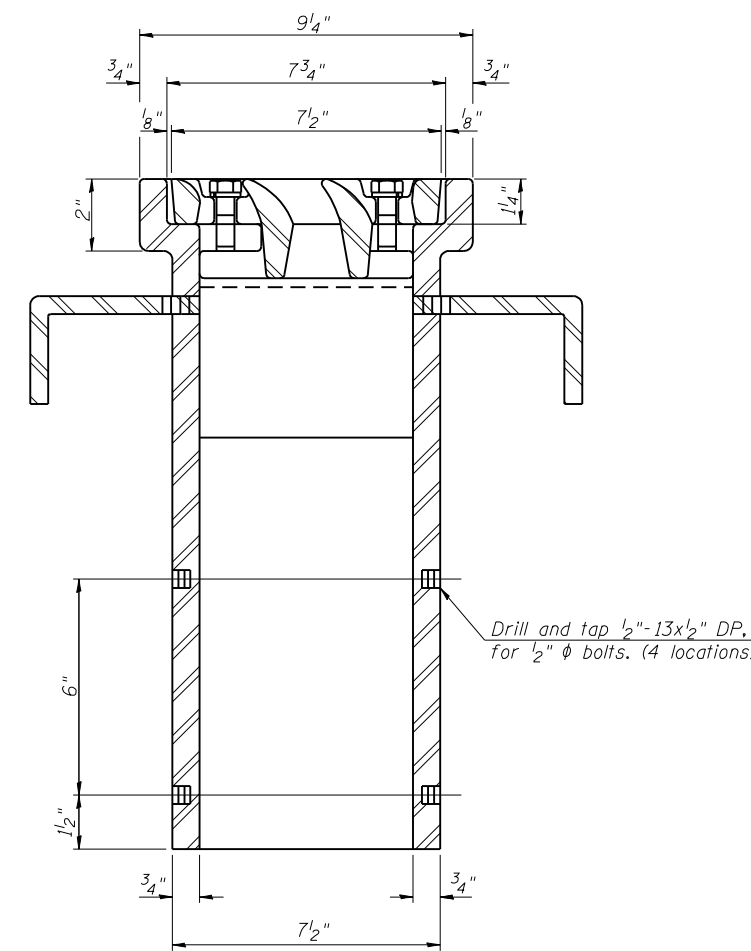
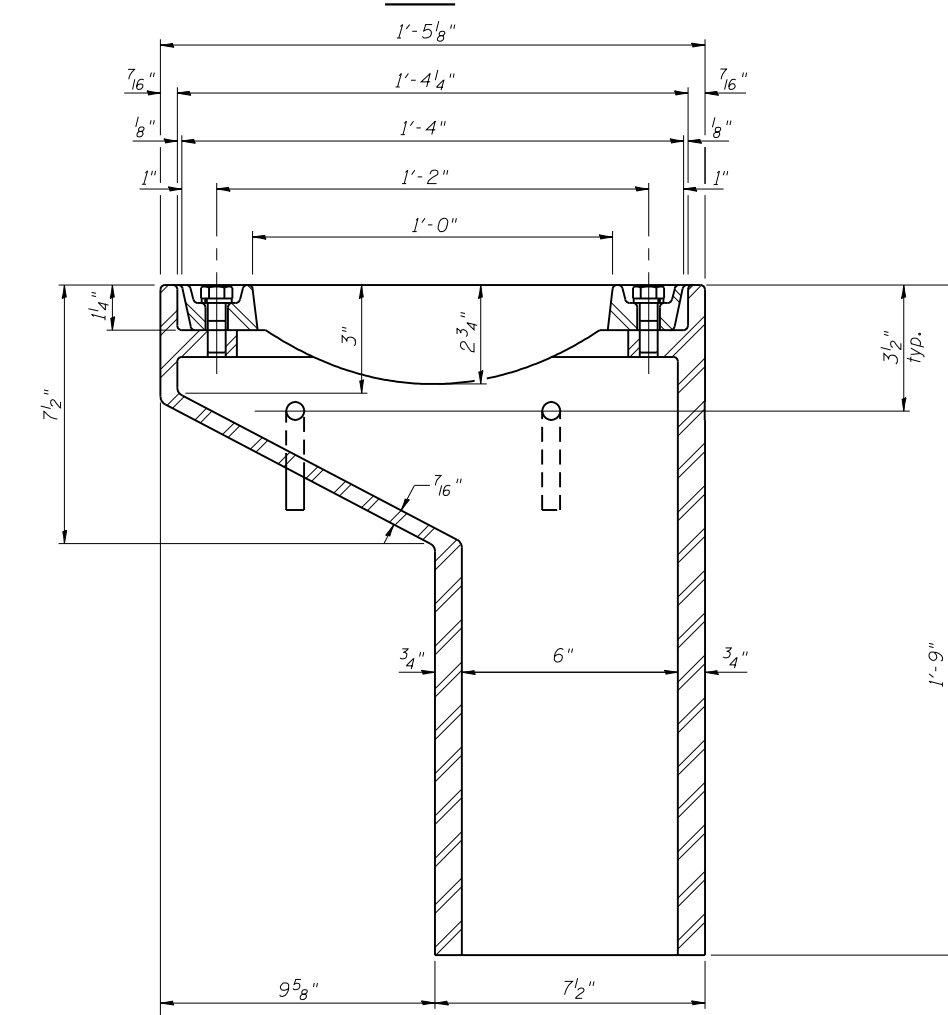
BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)

SHEET NO. 24 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 477
			CONTRACT NO. 68409	
ILLINOIS FED. AID PROJECT				



Notes:  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.  
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.  
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.  
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.  
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.  
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



See sheet 20 of 45 for scupper location relative to parapet.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	2

FILE NAME = 036-0063-78134-025-scupper.dgn  
 PROJECT NO. 036-0063  
 CB PROJECT NO. 04065

DS-11 7-1-10

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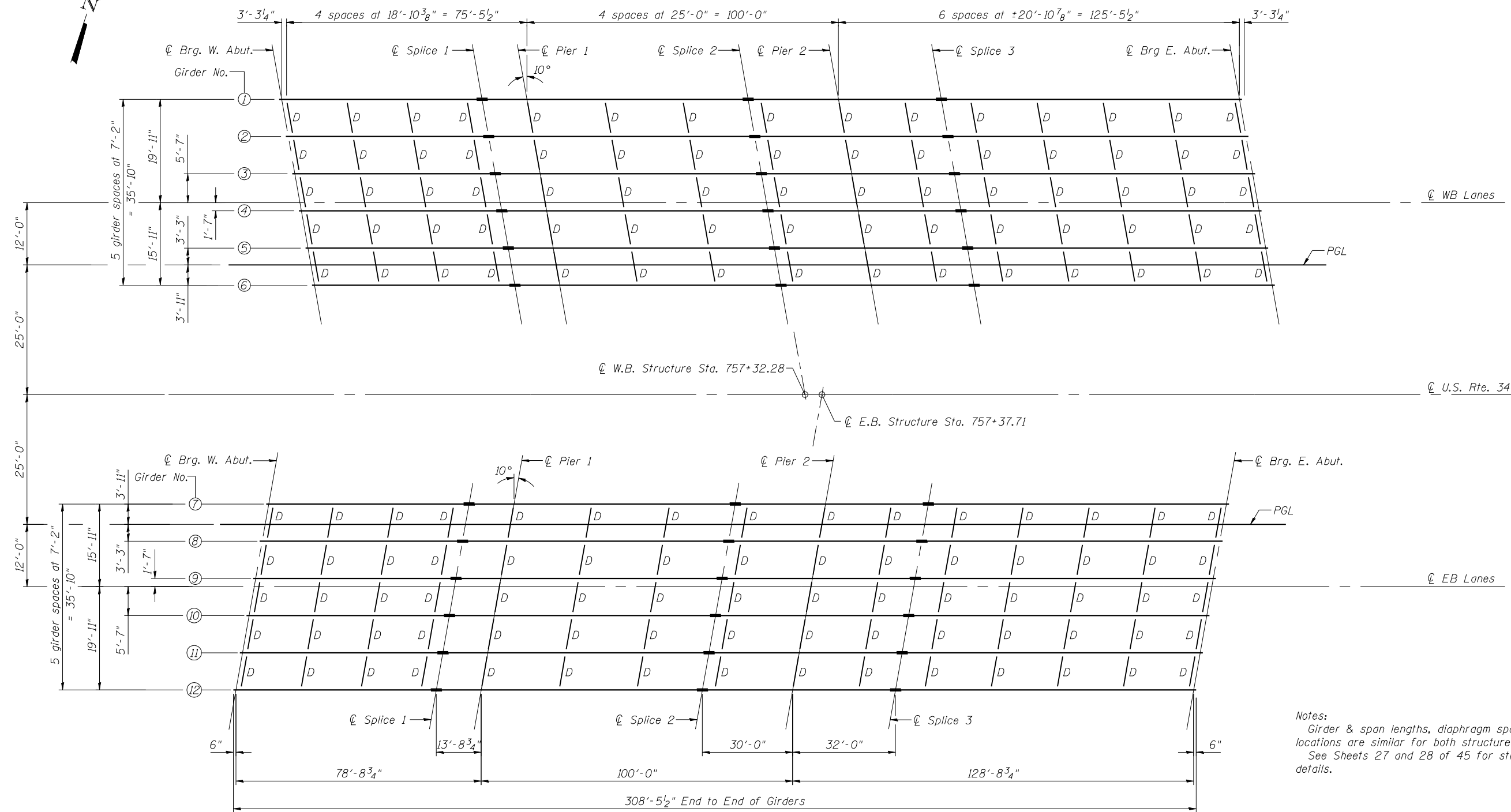
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	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER, DS-11  
 STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 25 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 478
				CONTRACT NO. 68409
ILLINOIS FED. AID PROJECT				



Notes:  
 Girder & span lengths, diaphragm spacing and splice locations are similar for both structures.  
 See Sheets 27 and 28 of 45 for structural steel details.

**FRAMING PLAN**

FILE NAME = 036-0063-78134-026-Framing.dgn  
 USER PROJECT NO. 04065

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 Design Firm License No. 184-002703

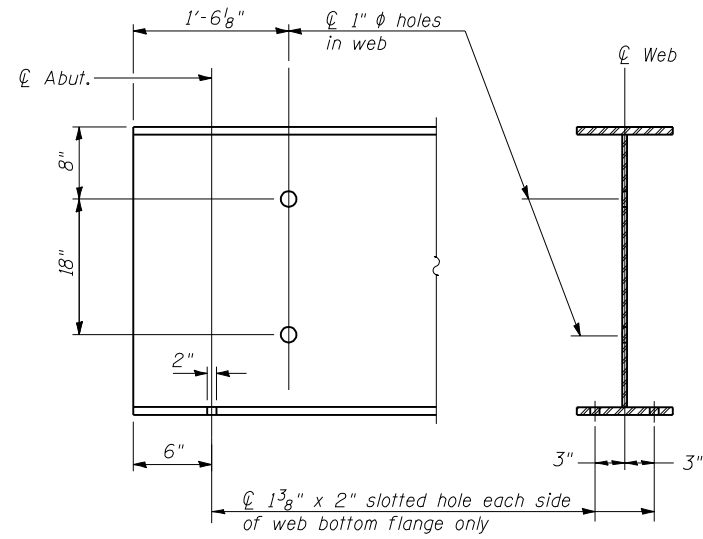
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CHECKED - MCB	REVISOR -	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 26 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	479
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**END OF GIRDER DETAIL**  
(Showing required hole locations)

**\*TOP OF WEB ELEVATIONS**

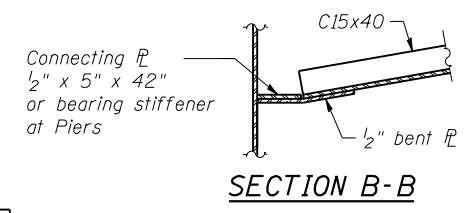
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
Cl Brg. W. Abut.	655.57	655.72	655.84	655.91	655.81	655.68
Cl Splice 1	655.87	656.03	656.15	656.22	656.11	655.99
Cl Pier 1	655.89	656.04	655.17	656.23	656.13	656.00
Cl Splice 2	655.98	656.13	656.26	656.33	656.22	656.09
Cl Pier 2	656.31	656.46	656.58	656.65	656.55	656.42
Cl Splice 3	656.65	656.81	656.93	657.00	656.89	656.77
Cl Brg. E. Abut.	657.08	657.24	657.36	657.43	657.32	657.20

\*Elevations are for fabrication only

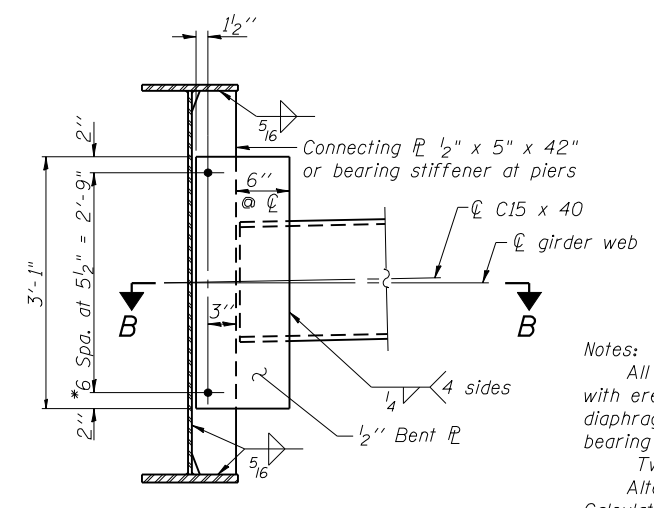
**\*TOP OF WEB ELEVATIONS**

Location	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12
Cl Brg. W. Abut.	655.71	655.83	655.94	655.87	655.75	655.59
Cl Splice 1	656.01	656.14	656.24	656.18	656.05	655.90
Cl Pier 1	656.03	656.16	656.26	656.19	656.07	655.92
Cl Splice 2	656.12	656.25	656.35	656.28	656.16	656.01
Cl Pier 2	656.45	656.57	656.68	656.61	656.49	656.33
Cl Splice 3	656.79	656.92	657.02	656.96	656.83	656.68
Cl Brg. E. Abut.	657.22	657.35	657.46	657.39	657.26	657.11

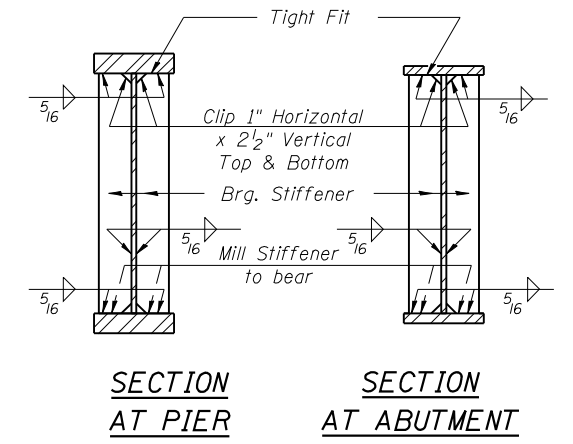
\*Elevations are for fabrication only



**SECTION B-B**

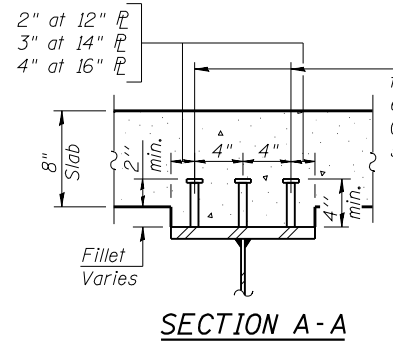


**DIAPHRAGM 'D'**  
(150 req'd)

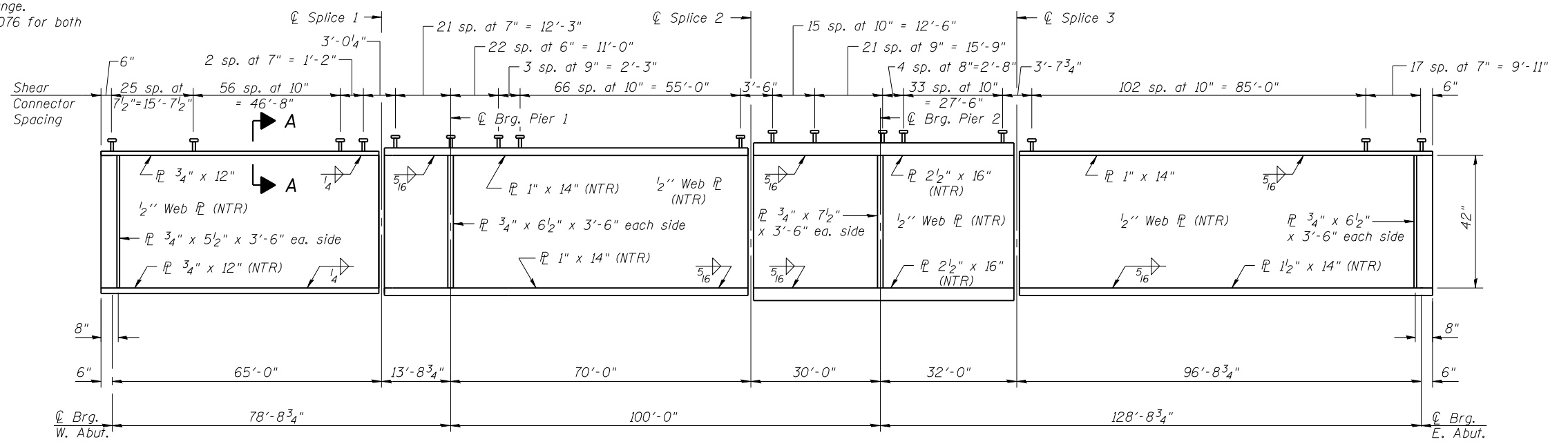


**SECTION AT PIER**      **SECTION AT ABUTMENT**

**Notes:**  
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.  
Two hardened washers required for each set of oversized holes. Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of Structural Steel is based on C15x40 Sections. The alternate, if utilized, shall be provided at no extra cost to the Department.  
\*3/4" φ HS bolts, 15/16" φ holes



**SECTION A-A**



**GIRDER ELEVATION**

Plates designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.  
All structural steel shall be AASHTO M270, Grade 50W.

FILE NAME = 0363-78134-027-struct.st.dwg  
CB PROJECT NO. 04065

**G-1**  
7-1-10  
**Coombe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
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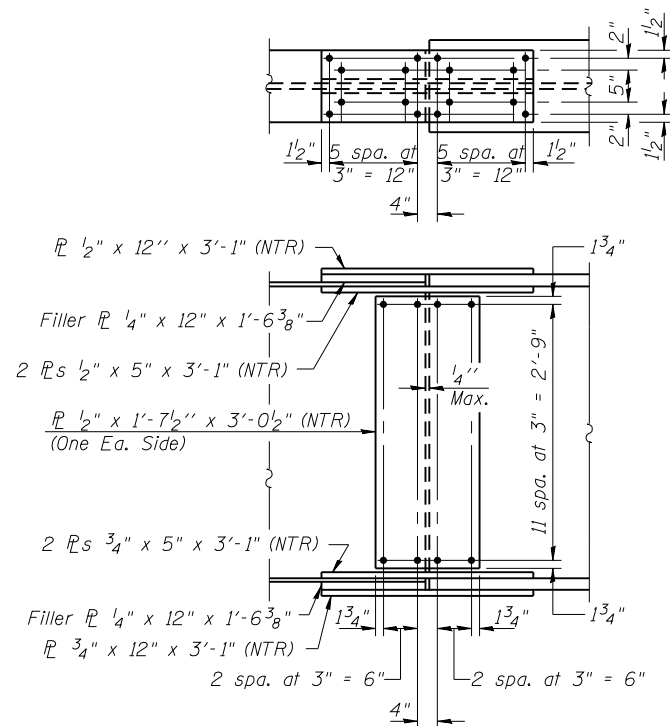
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

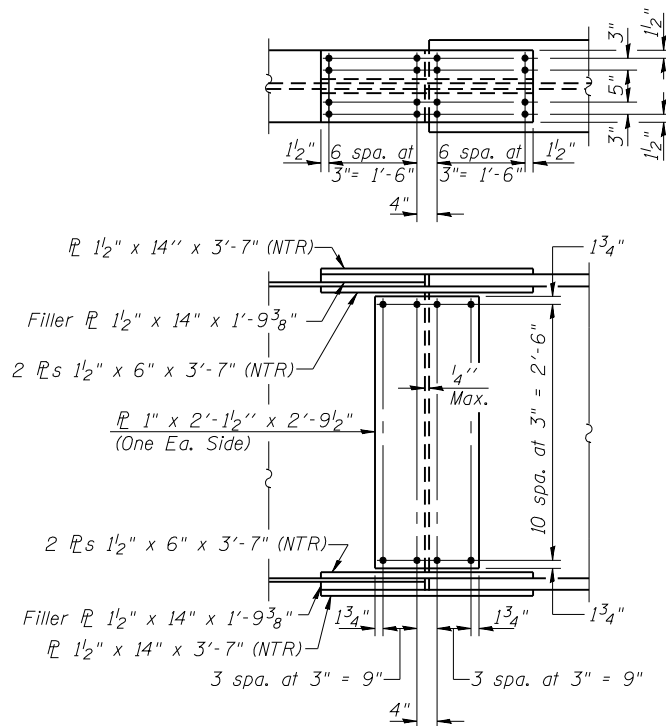
SHEET NO. 27 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 480
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

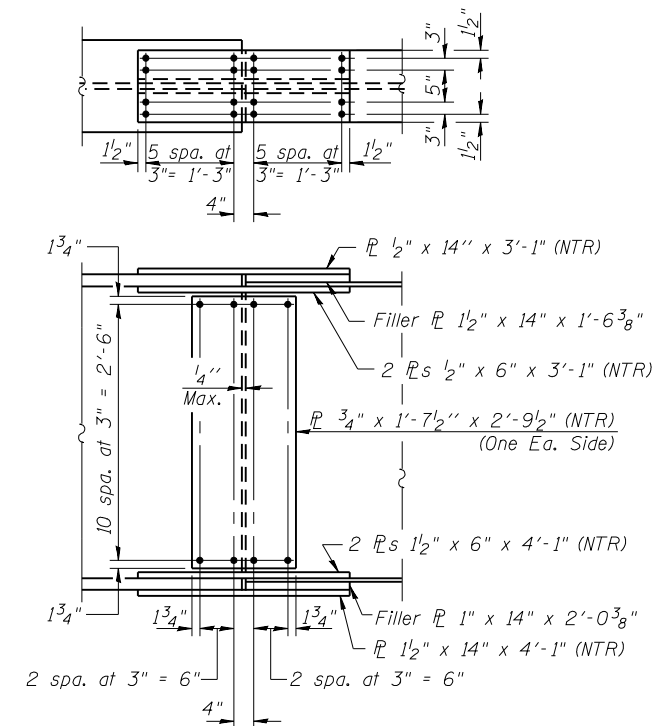




**FIELD SPLICE 1**

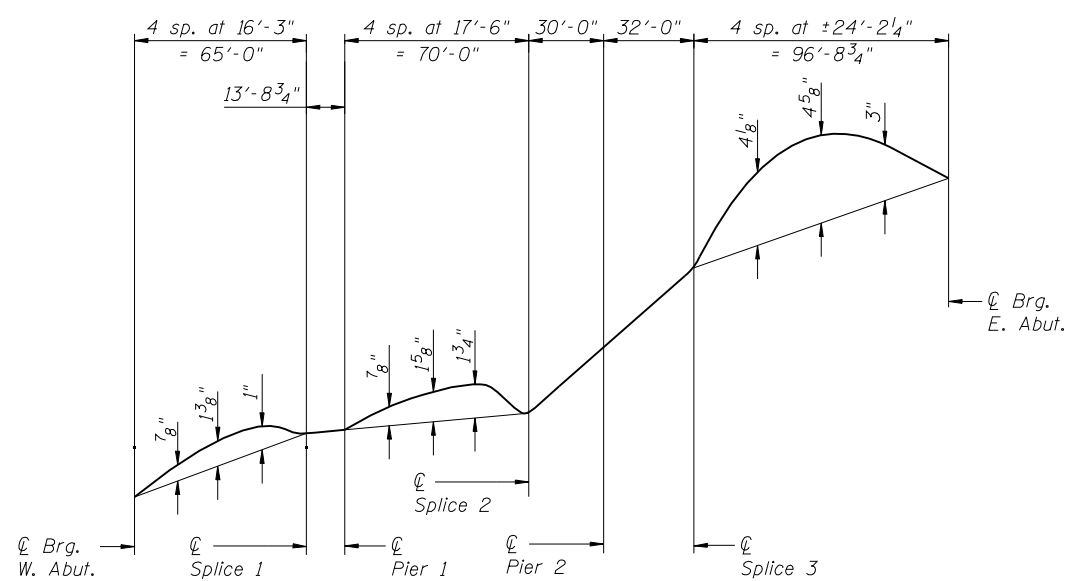


**FIELD SPLICE 2**



**FIELD SPLICE 3**

Notes:  
 Splice plates designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.  
 For splice plate connections use 7/8" φ bolts in 15/16" φ holes.



**CAMBER DIAGRAM**

FILE NAME = 036-062-78134-028-struct.st.dwt.splicendgn  
 CB PROJECT NO. 04065

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USER NAME = .MML.  
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 PLOT DATE = 10/16/2012

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 CHECKED - MCB

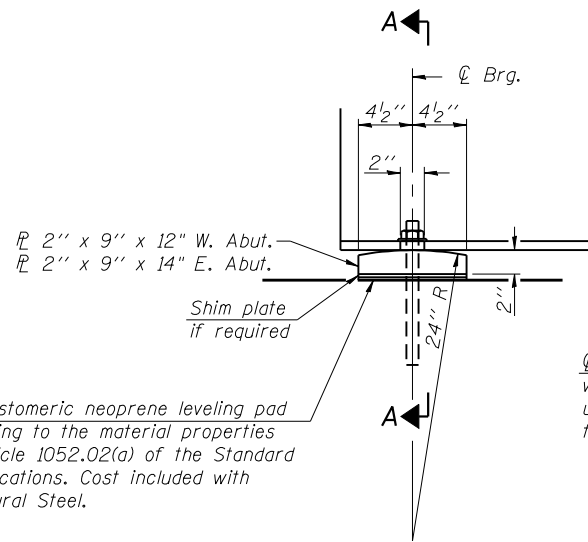
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL  
 STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 28 OF 45 SHEETS

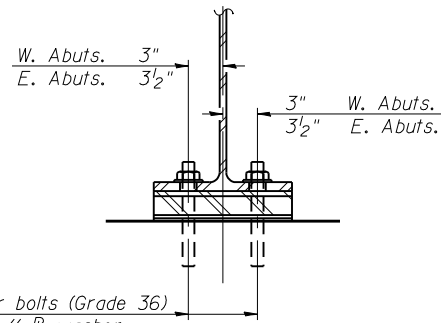
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	481
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**ELEVATION AT ABUTMENTS**

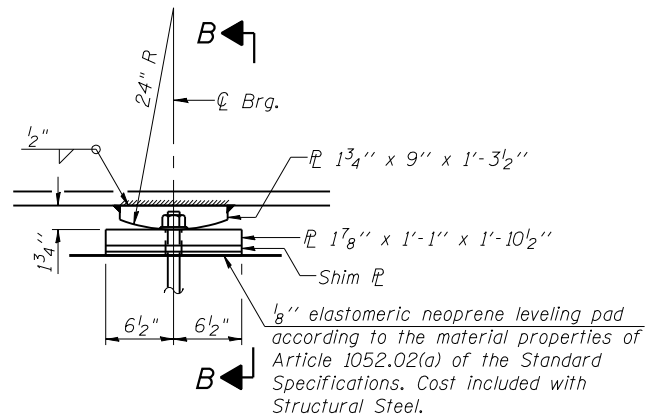
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1"  $\phi$  x 12" anchor bolts (Grade 36) with 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer under nut. 1 3/8" x 2" slotted hole in flange. 1/2"  $\phi$  holes in bearing plate.



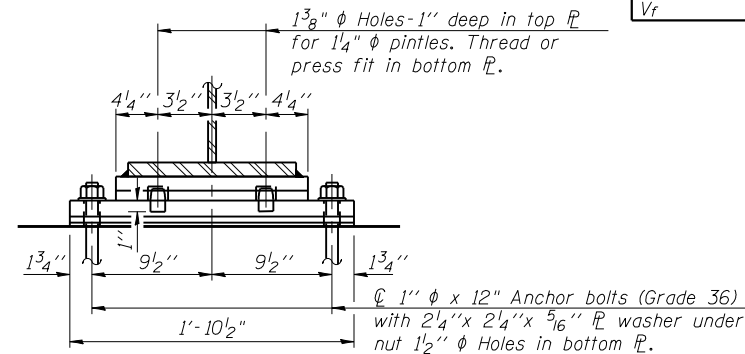
**SECTION A-A**

**FIXED BEARING**

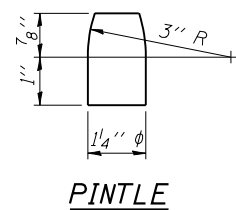


**ELEVATION AT PIER 1**

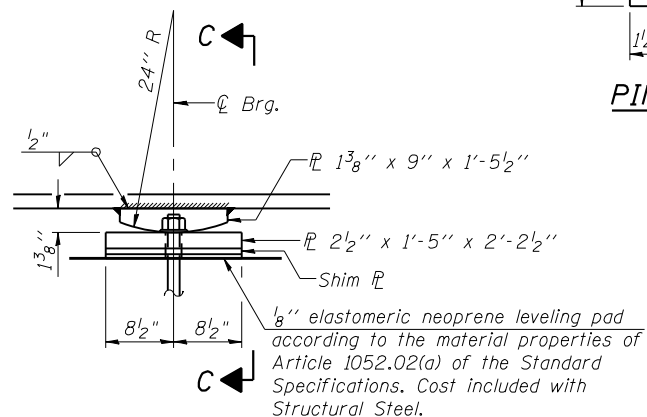
**FIXED BEARING**



**SECTION B-B**

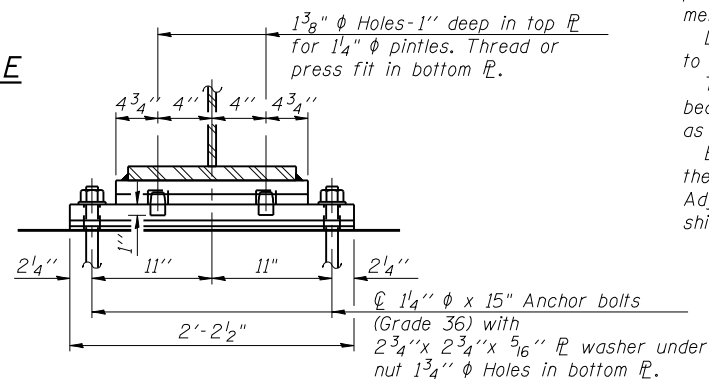


**PINTLE**



**ELEVATION AT PIER 2**

**FIXED BEARING**



**SECTION C-C**

INTERIOR GIRDER MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.4 Sp. 2	Pier 2	0.6 Sp. 3
$I_s$	(in <sup>4</sup> )	11,312	16,032	16,032	42,734	19,068
$I_c(n)$	(in <sup>4</sup> )	28,843	36,625	36,625	---	46,250
$I_c(3n)$	(in <sup>4</sup> )	21,667	27,501	27,501	---	33,710
$I_c(cr)$	(in <sup>4</sup> )	---	20,591	---	48,203	---
$S_s$	(in <sup>3</sup> )	520	729	729	1818	967
$S_c(n)$	(in <sup>3</sup> )	743	968	968	---	1273
$S_c(3n)$	(in <sup>3</sup> )	679	890	890	---	1174
$S_c(cr)$	(in <sup>3</sup> )	---	778	---	1894	---
DC1	(k/')	0.89	0.93	0.93	1.14	0.96
MDC1	(k)	470	552	81	1994	1213
DC2	(k/')	0.15	0.15	0.15	0.15	0.15
MDC2	(k)	75	89	18	269	188
DW	(k/')	0.36	0.36	0.36	0.36	0.36
MDW	(k)	183	217	43	655	459
$M_{\xi} + IM$	(k)	997	1003	975	1811	1674
$M_u$ (Strength I)	(k)	2701	2882	1895	6981	5369
$\phi_r M_n$	(k)	3653	---	4712	---	6159
$f_s$ DC1	(ksi)	10.8	9.1	1.3	13.2	15.1
$f_s$ DC2	(ksi)	1.3	1.2	0.2	1.7	1.9
$f_s$ DW	(ksi)	3.2	2.9	0.6	4.1	4.7
$f_s$ ( $\xi + IM$ )	(ksi)	16.1	12.4	12.1	11.5	15.8
$f_s$ (Service II)	(ksi)	36.3	29.4	17.9	33.9	42.2
$0.95R_n F_y f$	(ksi)	47.5	47.5	47.5	47.5	47.5
$f_s$ (Total)(Strength I)	(ksi)	---	38.9	---	44.9	---
$\phi_r F_n$	(ksi)	---	50.0	---	50	---
Vr	(k)	54	---	68	---	63

INTERIOR GIRDER REACTION TABLE					
	W. Abut.	Pier 1	Pier 2	E. Abut.	
RDC1	(k)	29.6	79.6	145.5	49.6
RDC2	(k)	4.7	12.6	20.8	7.4
R <sub>DW</sub>	(k)	11.5	30.7	51.0	18.2
$R_{\xi} + IM$	(k)	77.9	152.4	199.4	91.0
R <sub>Total</sub>	(k)	123.7	275.3	416.7	166.2

**Notes:**

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M_{\xi} + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- $M_u$  (Strength I): Factored design moment (kip-ft.).  
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75  $M_{\xi} + IM$
- $\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- $f_s$  DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
 $M_{DC1} / S_{nc}$
- $f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
 $M_{DC2} / S_c(3n)$  or  $M_{DC2} / S_c(cr)$  as applicable.
- $f_s$  DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
 $M_{DW} / S_c(3n)$  or  $M_{DW} / S_c(cr)$  as applicable.
- $f_s$  ( $\xi + IM$ ): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
 $M_{\xi} + IM / S_c(n)$  or  $M_{\xi} + IM / S_c(cr)$  as applicable.
- $f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\xi + IM)$
- $0.95R_n F_y f$ : Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- $f_s$  (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).  
1.25 ( $f_{sDC1} + f_{sDC2}$ ) + 1.5  $f_{sDW}$  + 1.75  $f_s(\xi + IM)$
- $\phi_r F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- Vr: Maximum factored shear range in span computed according to Article 6.10.10.

**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts 1"	Each	72
Anchor Bolts 1 1/4"	Each	24

FILE NAME = 0363-78134-029-bearing.dgn  
CB PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = @2' = 1" IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

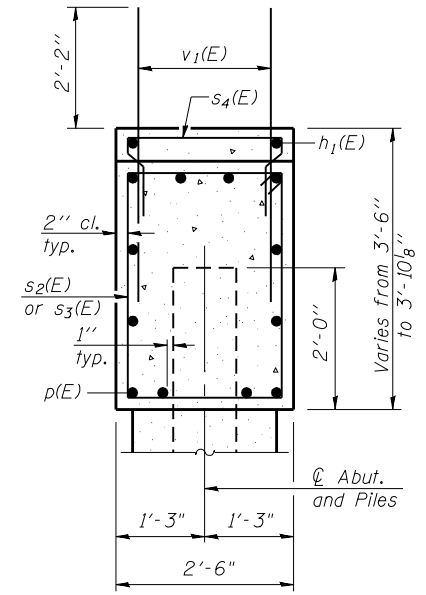
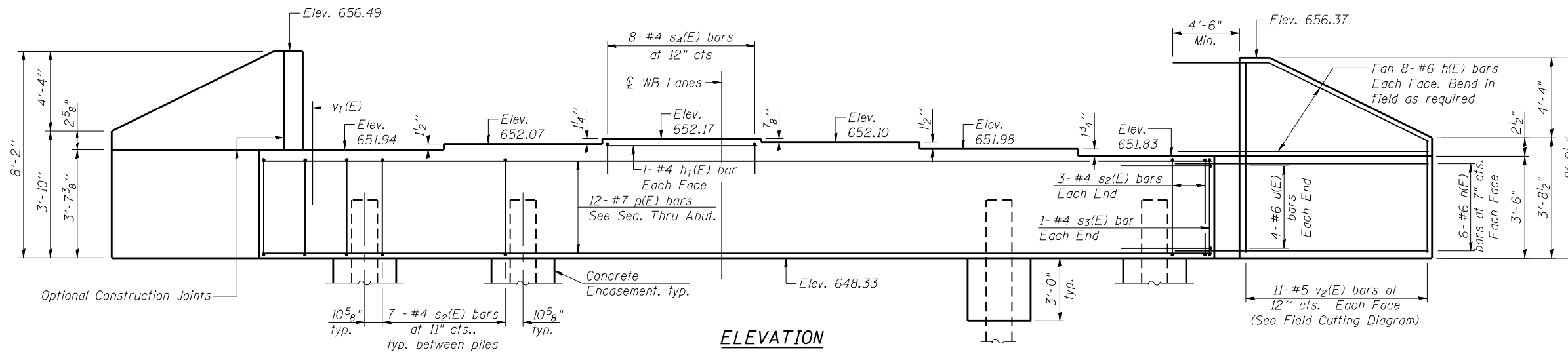
**BEARING DETAILS**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 29 OF 45 SHEETS

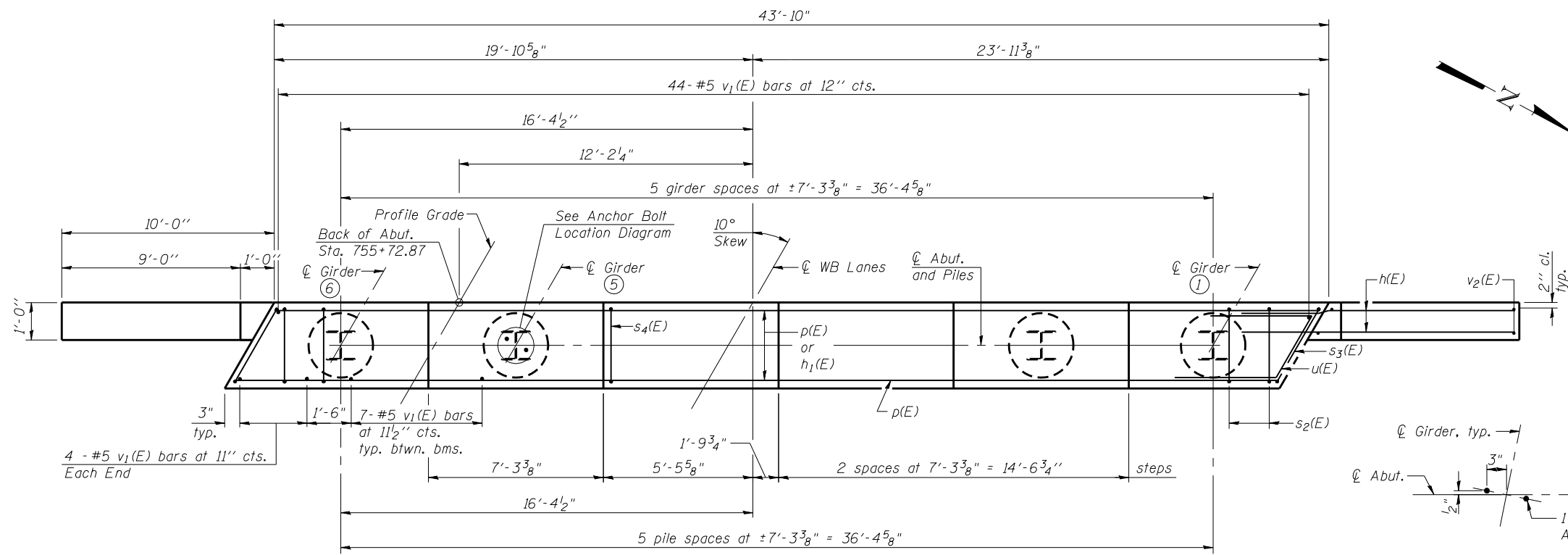
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	482
				CONTRACT NO. 68409

ILLINOIS FED. AID PROJECT

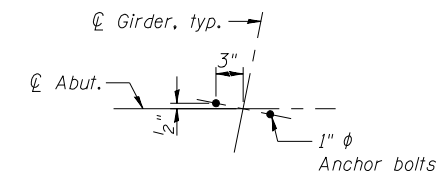
Notes:  
Pour steps monolithically with cap.



SEC. THRU ABUT.



PLAN

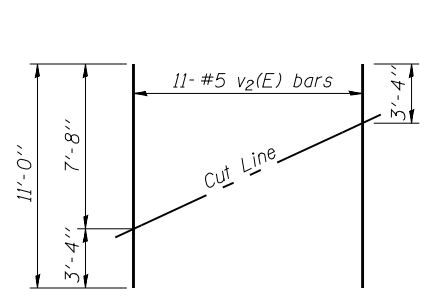


ANCHOR BOLT LOCATION DIAGRAM

**PILE DATA**

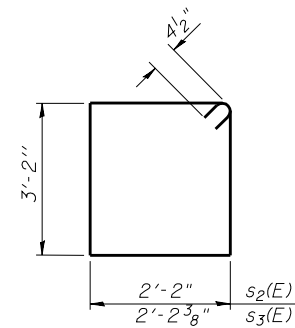
Type: HP14x73 with pile shoes  
Nominal Required Bearing: 578K  
Factored Resistance Available: 254K  
Est. Length: 51'  
No. Production Piles: 5  
No. Test Piles: 1

Note:  
Piles shall be driven thru 24"  $\phi$  precored holes extending to elevation 636.0 according to Article 512.09c of the Standard Specifications. Cost included in driving piles.

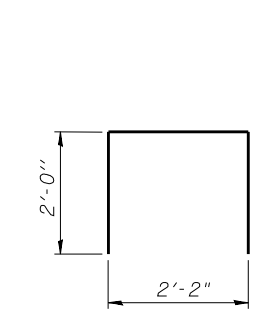


FIELD CUTTING DIAGRAM

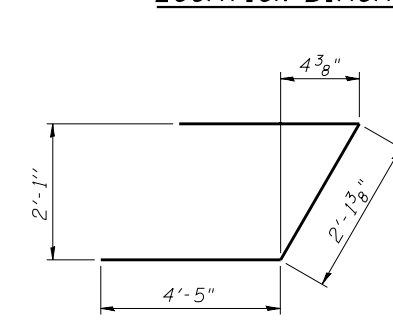
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BARS s4(E)



BAR u(E)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-4"	—
h1(E)	2	#4	7'-0"	—
p(E)	12	#7	43'-6"	—
s2(E)	41	#4	11'-5"	□
s3(E)	2	#4	11'-6"	□
s4(E)	8	#4	6'-2"	□
u(E)	8	#6	11'-0"	┌
v1(E)	87	#5	4'-4"	—
v2(E)	22	#5	11'-0"	—
Structure Excavation		Cu. Yd.	107	
Concrete Structures		Cu. Yd.	19.6	
Reinforcement Bars, Epoxy Coated		Pound	3,420	
Furnishing Steel Piles HP 14x73		Foot	255	
Driving Piles		Foot	255	
Test Pile HP14x73		Each	1	
Concrete Encasement		Cu. Yd.	3.3	
Pile Shoes		Each	6	

For details of piles and Concrete Encasement, see sheet 38 of 45.

FILE NAME: 0363-0063-78134-038-W\_Abut.WB.dgn  
CB PROJECT NO. 04065

**AI-R** 7-1-10  
**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

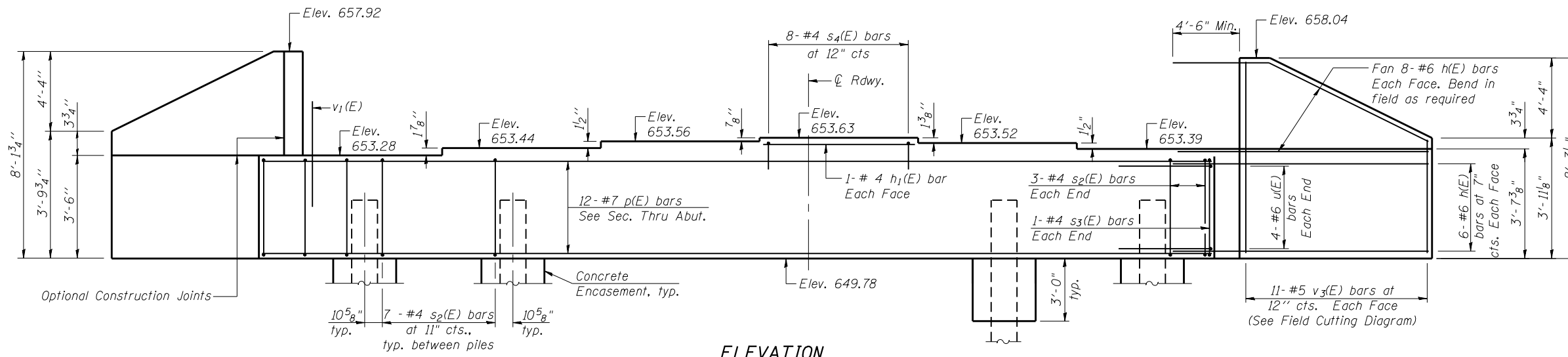
USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

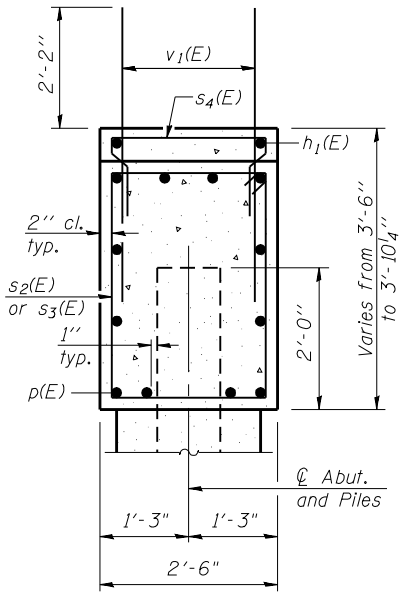
**WEST ABUTMENT**  
**STRUCTURE NO. 036-0063 (W.B.)**  
SHEET NO. 30 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	483
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

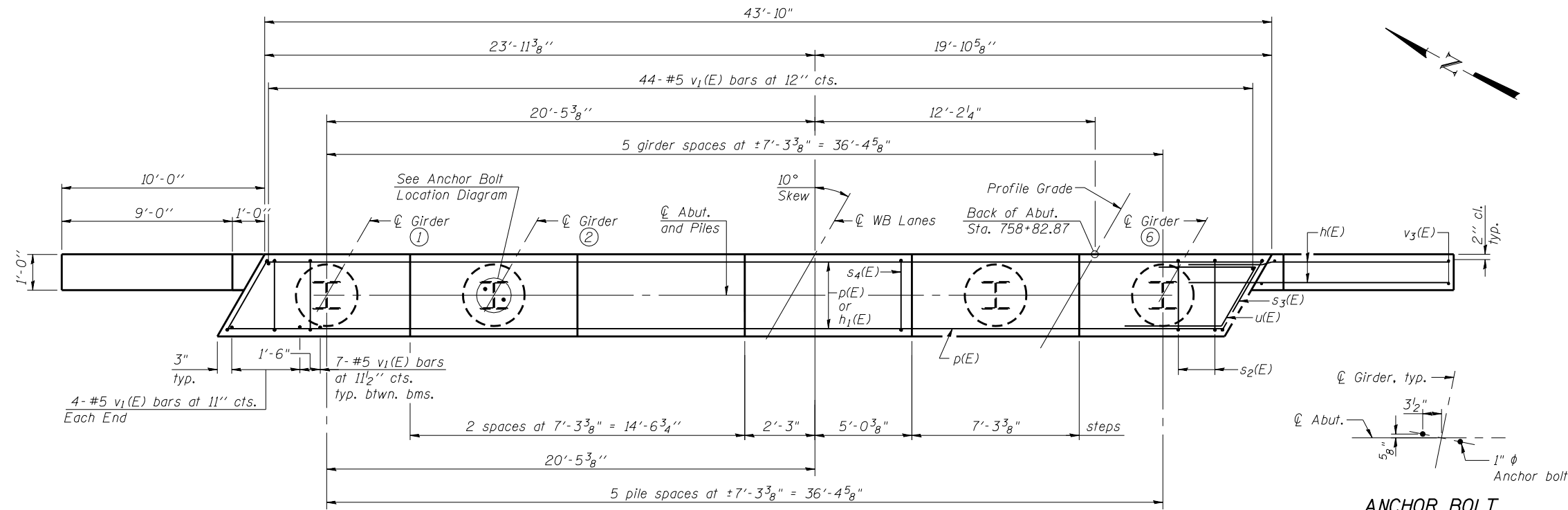
Notes:  
Pour steps monolithically with cap.



ELEVATION



SEC. THRU ABUT.



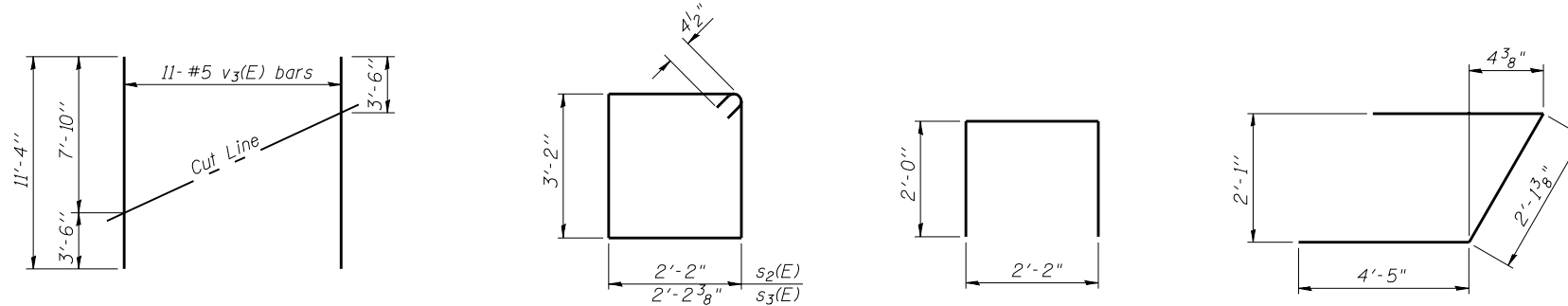
PLAN

ANCHOR BOLT LOCATION DIAGRAM

PILE DATA

Type: HP 14x73 with pile shoes  
Nominal Required Bearing: 578K  
Factored Resistance Available: 318K  
Est. Length: 40'  
No. Production Piles: 5  
No. Test Piles: 1

Note:  
Piles shall be driven thru 24" φ precored holes extending to elevation 638.0 according to Article 512.09c of the Standard Specifications.  
Cost included in driving piles.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-4"	—
h1(E)	2	#4	7'-0"	—
p(E)	12	#7	43'-6"	—
s2(E)	41	#4	11'-5"	□
s3(E)	2	#4	11'-6"	□
s4(E)	8	#4	6'-2"	□
u(E)	8	#6	11'-0"	┘
v1(E)	87	#5	4'-4"	—
v3(E)	22	#5	11'-4"	—
Structure Excavation			Cu. Yd.	107
Concrete Structures			Cu. Yd.	19.6
Reinforcement Bars, Epoxy Coated			Pound	3430
Furnishing Steel Piles HP 14x73			Foot	200
Driving Piles			Foot	200
Test Pile HP14x73			Each	1
Concrete Encasement			Cu. Yd.	3.3
Pile Shoes			Each	6

For details of piles and Concrete Encasement, see sheet 38 of 45.

FILE NAME = 0063-0063-78134-031-E-abut.WB.dgn  
CB PROJECT NO. 04065

**Combe-Bloxdorf P.C.**  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML.  
DESIGNED - CME  
CHECKED - MCB  
DRAWN - MML  
CHECKED - MCB  
PLOT SCALE = 0/2" = 1' / IN.  
PLOT DATE = 10/16/2012

DESIGNED - CME  
CHECKED - MCB  
DRAWN - MML  
CHECKED - MCB  
REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

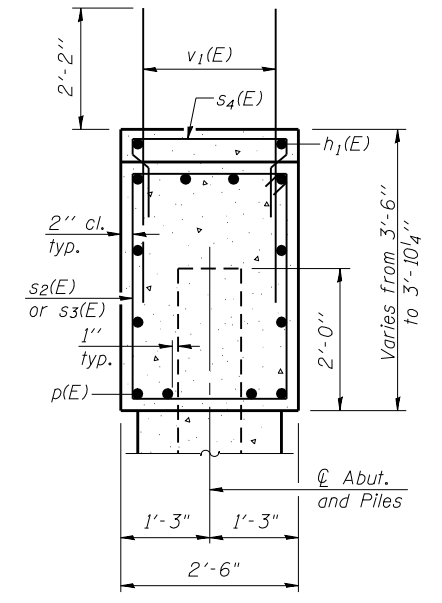
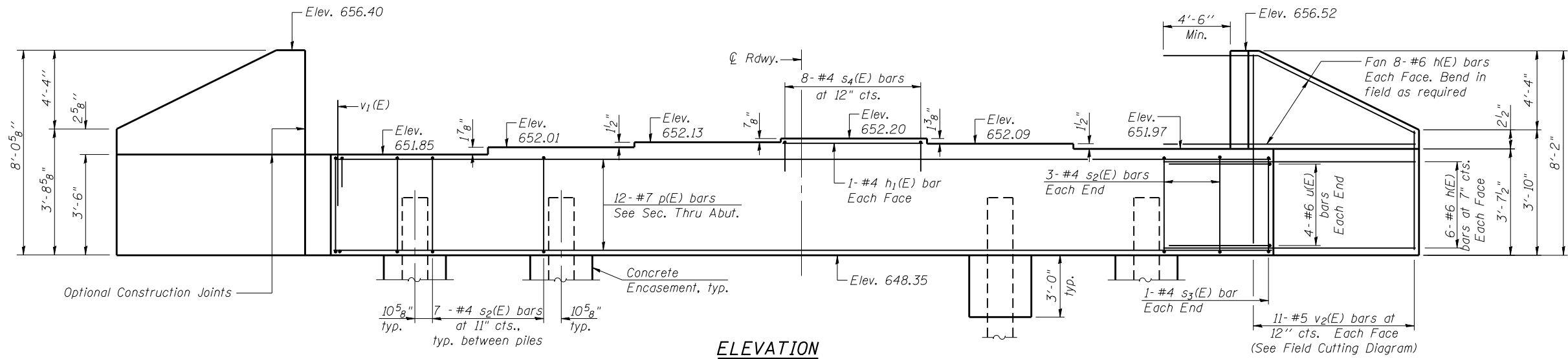
EAST ABUTMENT  
STRUCTURE NO. 036-0063 (W.B.)

SHEET NO. 31 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	484
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

Notes:  
Four steps monolithically with cap.



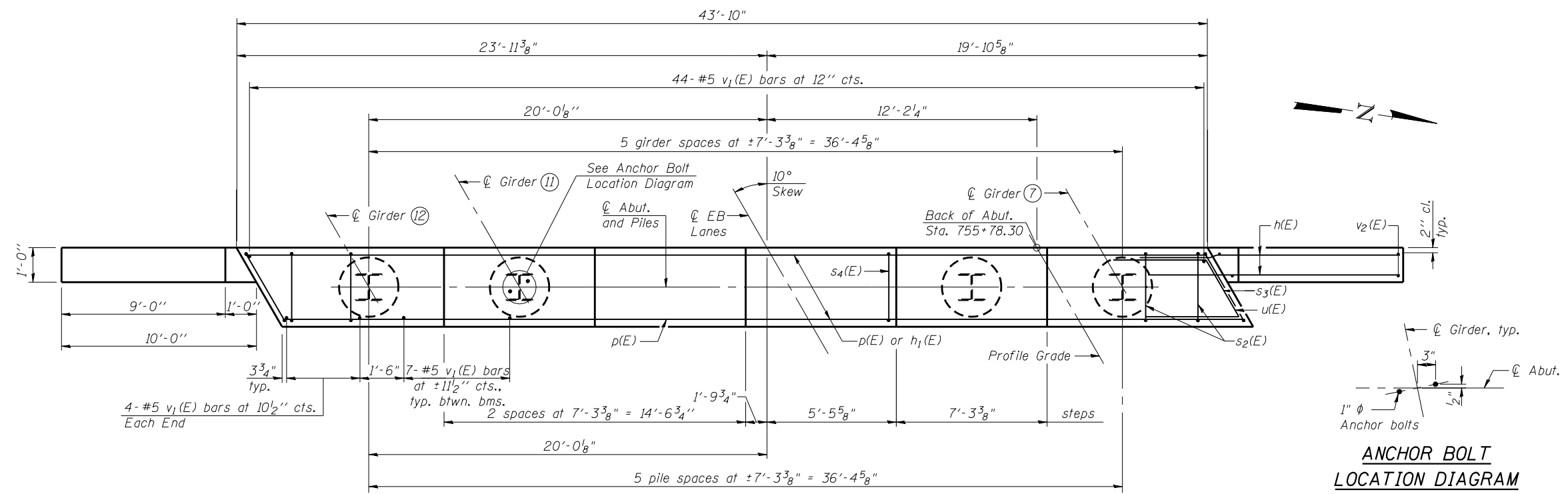
ELEVATION

SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-4"	—
h1(E)	2	#4	7'-0"	—
p(E)	12	#7	43'-6"	—
s2(E)	41	#4	11'-5"	□
s3(E)	2	#4	11'-6"	□
s4(E)	8	#4	6'-2"	□
u(E)	8	#6	11'-0"	⌒
v1(E)	87	#5	4'-4"	—
v2(E)	22	#5	11'-0"	—
Structure Excavation		Cu. Yd.	107	
Concrete Structures		Cu. Yd.	19.6	
Reinforcement Bars, Epoxy Coated		Pound	3420	
Furnishing Steel Piles HP 14x73		Foot	345	
Driving Piles		Foot	345	
Test Pile HP 14x73		Each	1	
Concrete Encasement		Cu. Yd.	3.3	
Pile Shoes		Each	6	

For details of piles and Concrete Encasement, see sheet 38 of 45.



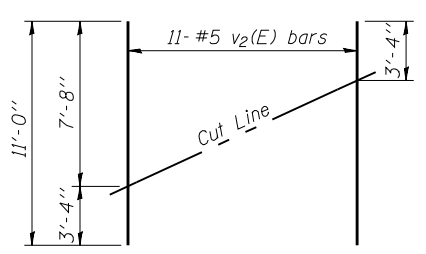
PLAN

ANCHOR BOLT LOCATION DIAGRAM

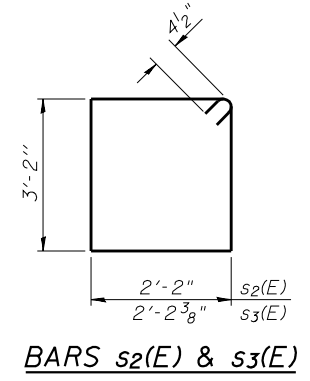
PILE DATA

Type: HP 14x73 with piles shoes  
Nominal Required Bearing: 578k  
Factored Resistance Available: 257k  
Est. Length: 69'  
No. Production Piles: 5  
No. Test Piles: 1

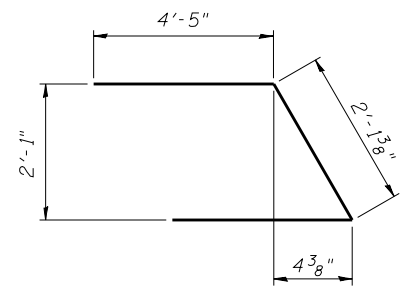
Note:  
Piles shall be driven thru 24" φ precored holes extending to elevation 637.0 according to Article 512.09c of the Standard Specifications. Cost included in driving piles.



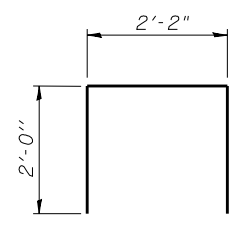
FIELD CUTTING DIAGRAM



BARS s2(E) & s3(E)



BAR u(E)



BARS s4(E)

FILE NAME: 036-0062-78134-032-4\_abut.EB.dgn  
CB PROJECT NO. 04065

AI-L  
Coombe-Bloxdorf P.C.  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME	DESIGNED	REVISION
MMML	CME	-
	MCB	-
	MMML	-
	MCB	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

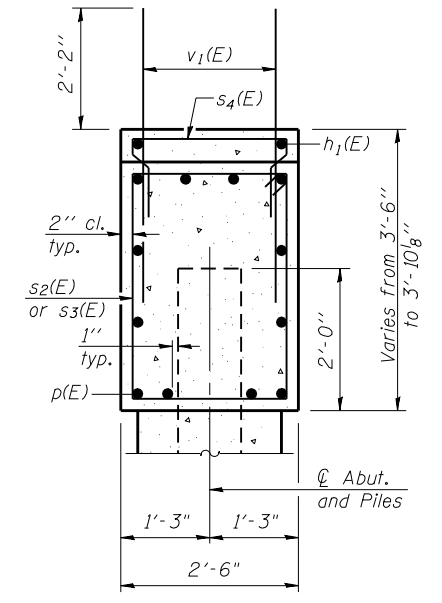
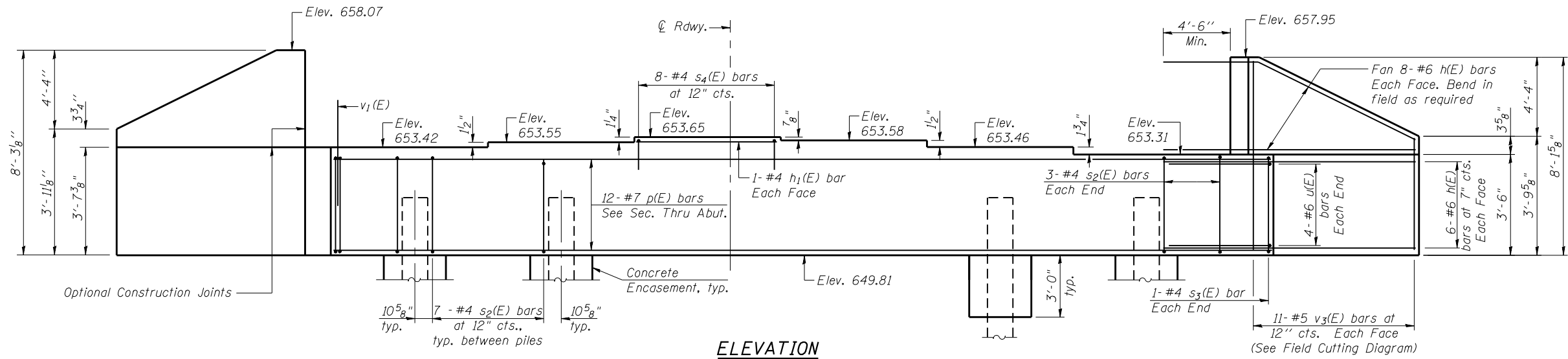
WEST ABUTMENT  
STRUCTURE NO. 036-0062 (E.B.)

SHEET NO. 32 OF 45 SHEETS

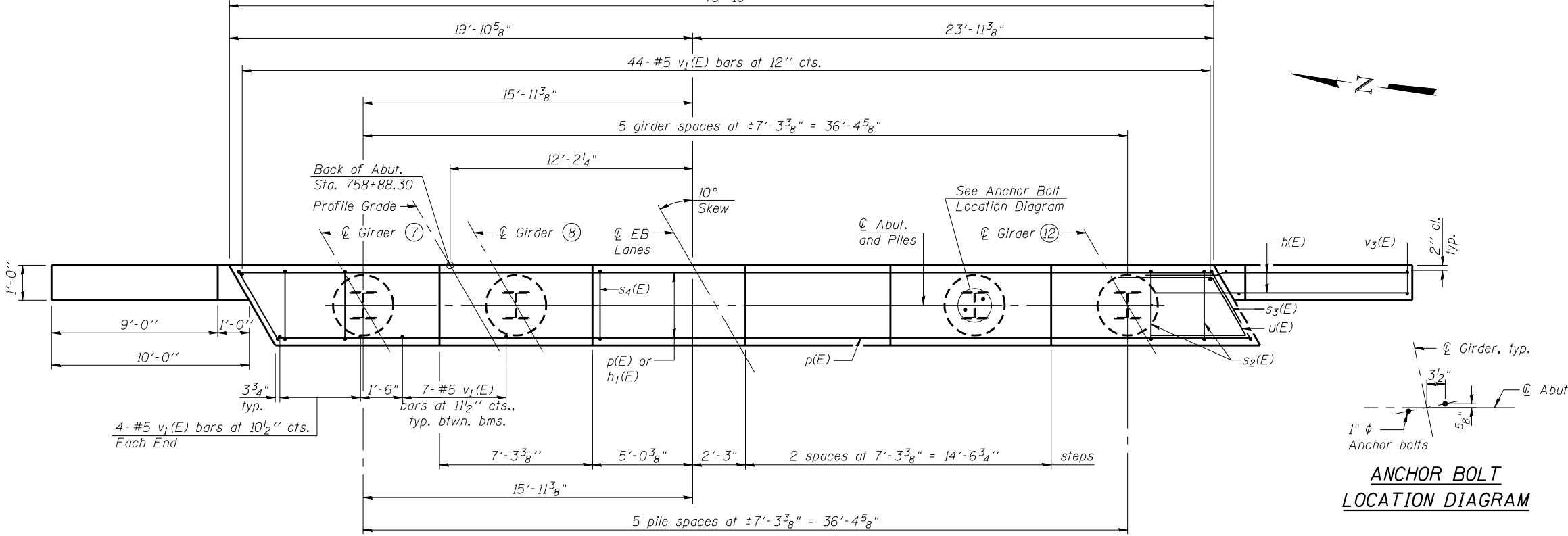
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	485
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT

Notes:  
Four steps monolithically with cap.



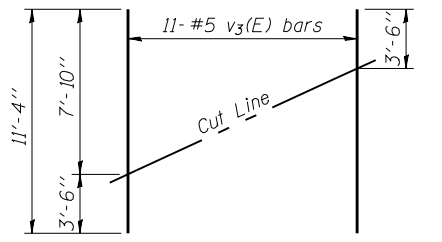
SEC. THRU ABUT.



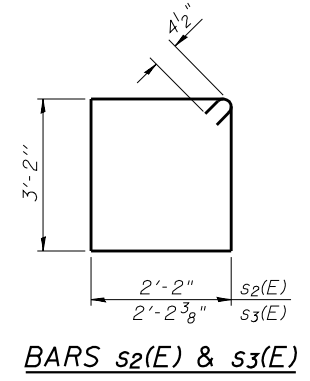
ANCHOR BOLT LOCATION DIAGRAM

**PILE DATA**  
Type: HP 14x89 with pile shoes  
Nominal Required Bearing: 705k  
Factored Resistance Available: 321k  
Est. Length: 54'  
No. Production Piles: 5  
No. Test Piles: 1

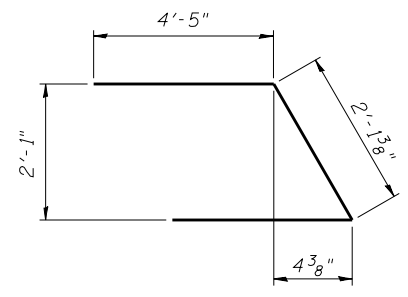
Note:  
Piles shall be driven thru 24"  $\phi$  precored holes extending to elevation 625.5 according to Article 512.09c of the Standard Specifications. Cost included in driving piles.



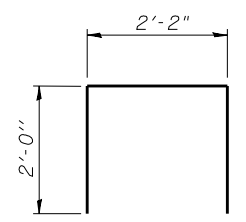
**FIELD CUTTING DIAGRAM**  
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s2(E) & s3(E)**



**BAR u(E)**



**BARS s4(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	56	#6	14'-4"	—
h1(E)	2	#4	7'-0"	—
p(E)	12	#7	43'-6"	—
s2(E)	41	#4	11'-5"	□
s3(E)	2	#4	11'-6"	□
s4(E)	8	#4	6'-2"	□
u(E)	8	#6	11'-0"	└
v1(E)	87	#5	4'-4"	—
v3(E)	22	#5	11'-4"	—
Structure Excavation		Cu. Yd.	107	
Concrete Structures		Cu. Yd.	19.6	
Reinforcement Bars, Epoxy Coated		Pound	3430	
Furnishing Steel Piles HP 14x89		Foot	270	
Driving Piles		Foot	270	
Test Pile HP 14x89		Each	1	
Concrete Encasement		Cu. Yd.	3.3	
Pile Shoes		Each	6	

For details of piles and Concrete Encasement, see sheet 38 of 45.

FILE NAME = 0063-78134-033 E.abut.EB.dgn  
CB PROJECT NO. 04065

AI-L  
Coombe-Bloxdorf P.C.  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML	DESIGNED - CME	REVISED -
PLOT SCALE = @2' = 1" IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

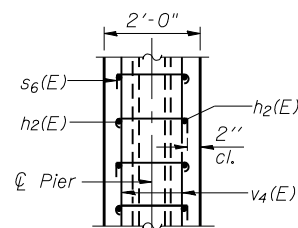
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT  
STRUCTURE NO. 036-0062 (E.B.)

SHEET NO. 33 OF 45 SHEETS

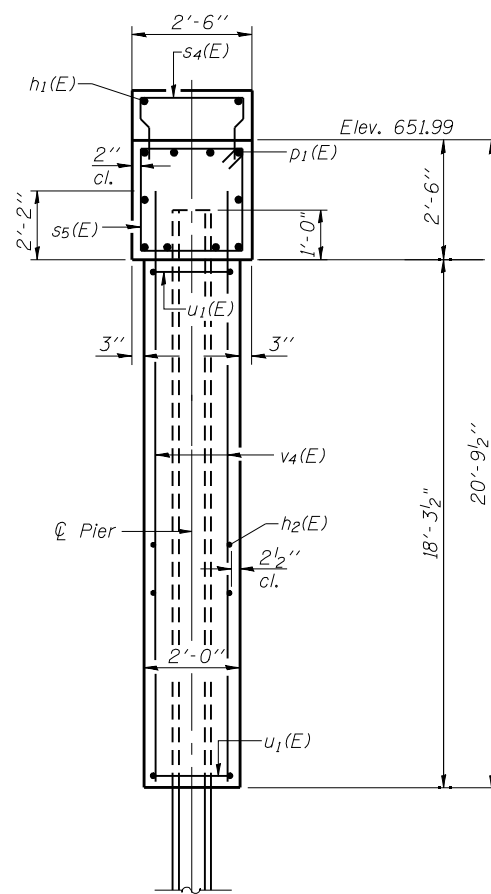
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	486
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 38 of 45.



**SECTION THRU WALL  
 AT PILE LOCATION**

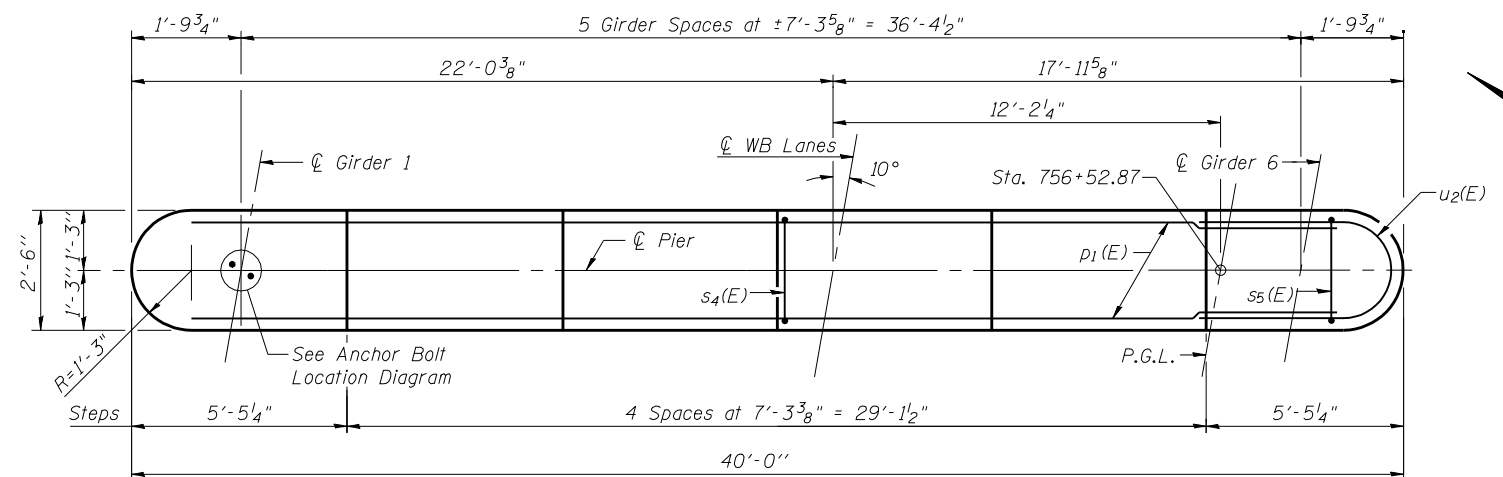
Showing alternating placement of  $s_6(E)$  bars



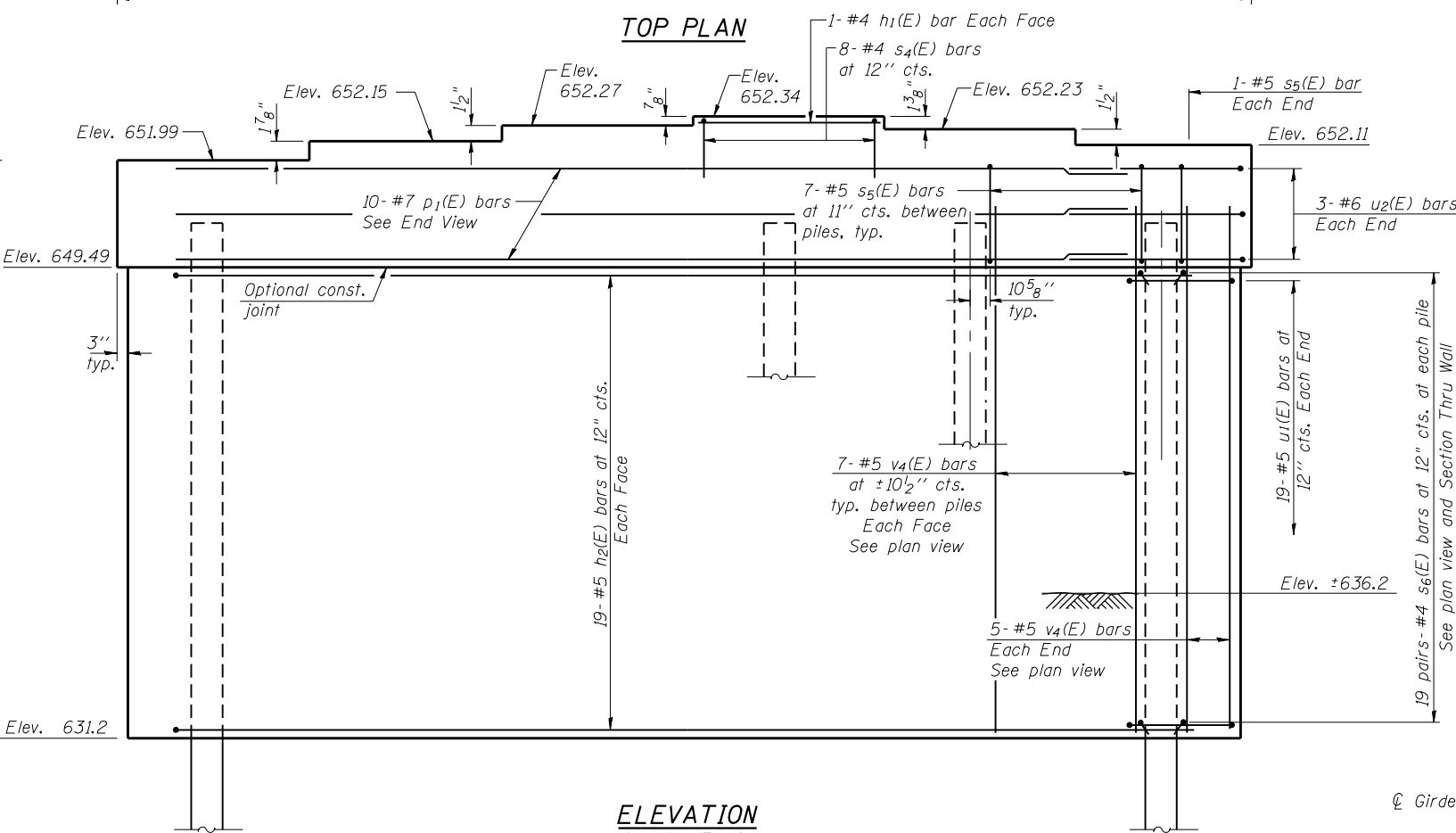
**END VIEW**

**PILE DATA**

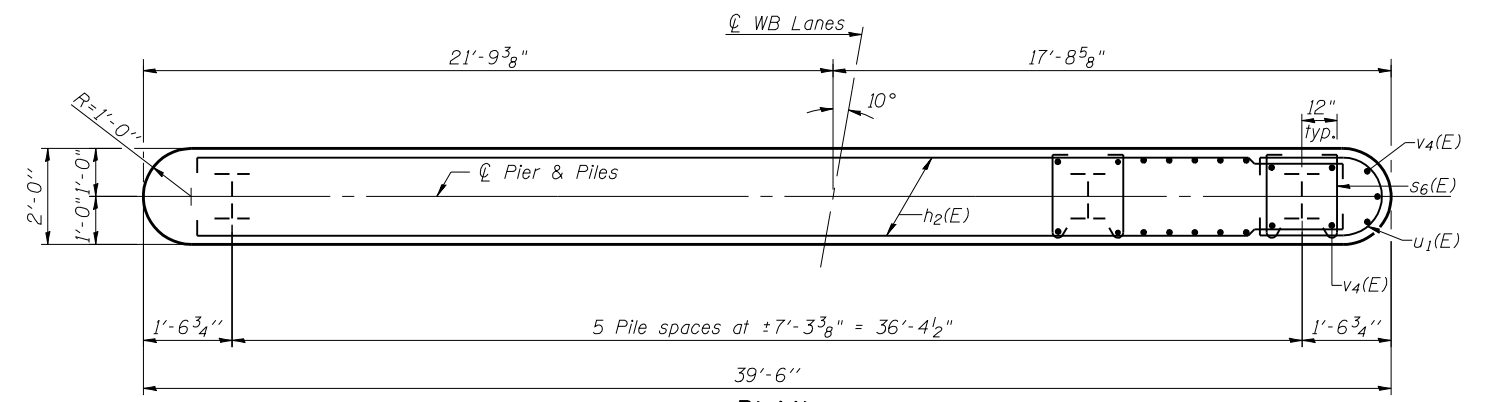
Type: Steel HP 14x89 with pile shoes  
 Nominal Required Bearing: 705 kip  
 Factored Resistance Available: 388 kip  
 Est. Length: 46 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1



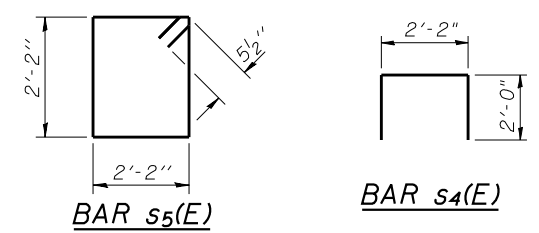
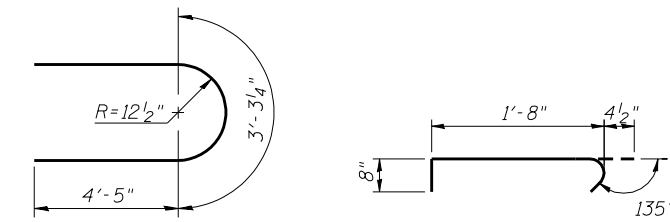
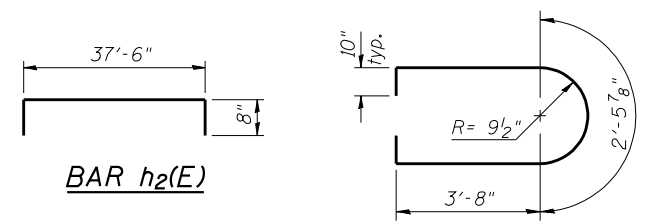
**TOP PLAN**



**ELEVATION  
 (Looking East)**

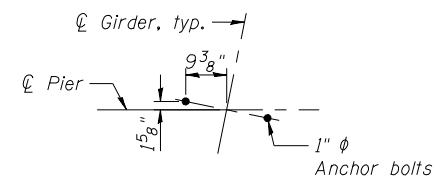


**PLAN**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	2	#4	7'-0"	—
$h_2(E)$	38	#5	38'-10"	U
$p_1(E)$	10	#7	37'-6"	—
$s_4(E)$	8	#4	6'-2"	U
$s_5(E)$	37	#5	9'-7"	U
$s_6(E)$	228	#4	2'-9"	U
$u_1(E)$	38	#5	11'-6"	U
$u_2(E)$	6	#6	12'-2"	U
$v_4(E)$	80	#5	20'-4"	—
Structure Excavation			Cu. Yd.	48
Concrete Structures			Cu. Yd.	62.1
Reinforcement Bars, Epoxy Coated			Pound	5400
Furnishing Steel Piles HP 14 x 89			Foot	230
Driving Piles			Foot	230
Test Pile Steel HP 14 x 89			Each	1
Pile Shoes			Each	6



**ANCHOR BOLT  
 LOCATION DIAGRAM**

FILE NAME = 0063-78134-034-pier1.wb.dgn  
 CB PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = @2' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

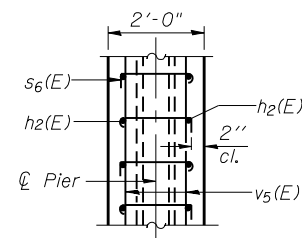
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 1  
 STRUCTURE NO. 036-0063 (W.B.)**  
 SHEET NO. 34 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 487
CONTRACT NO. 68409				

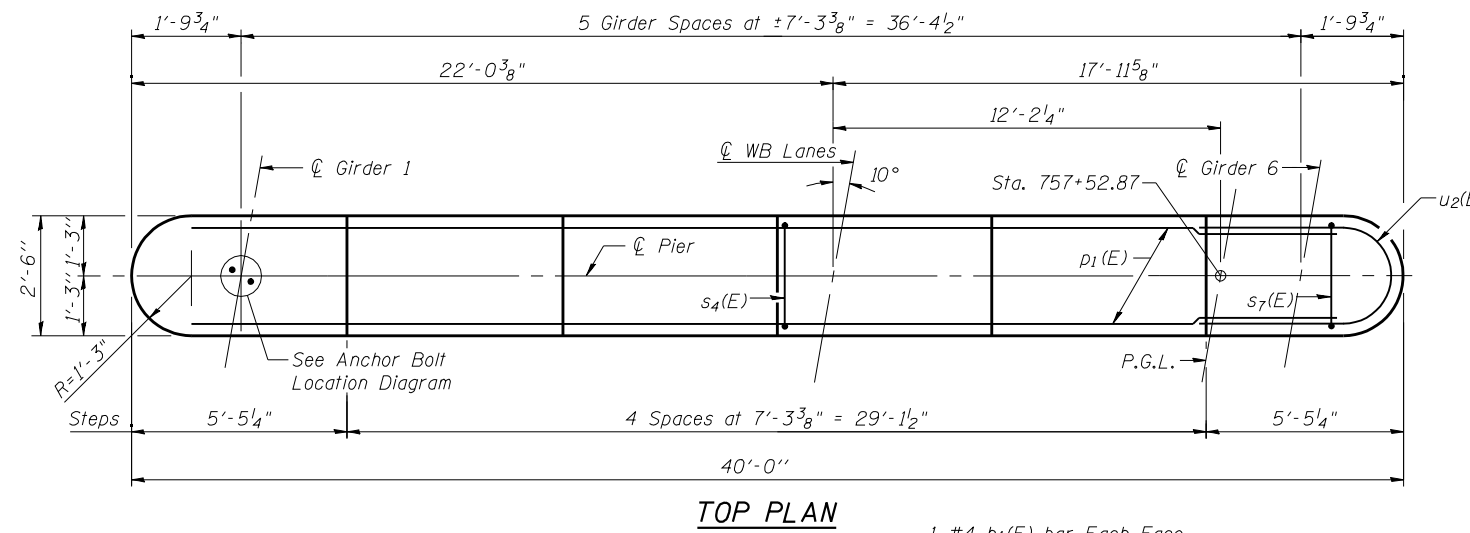
ILLINOIS FED. AID PROJECT

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles and encasement, see sheet 38 of 45.

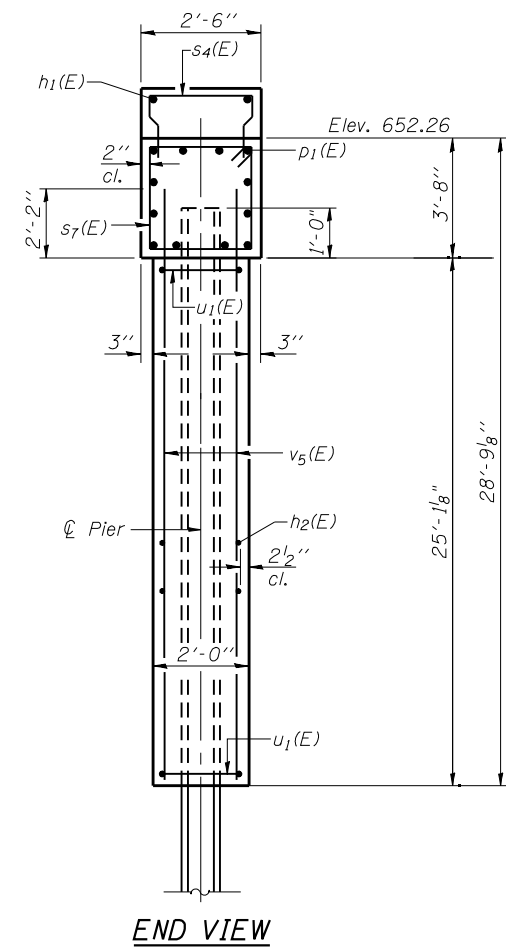
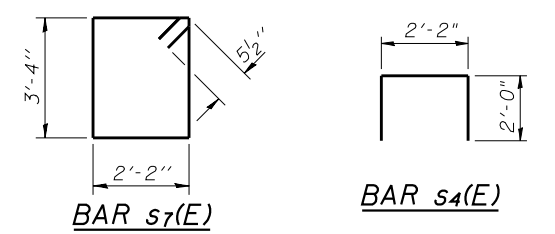
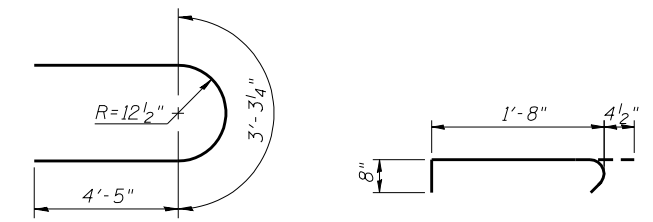
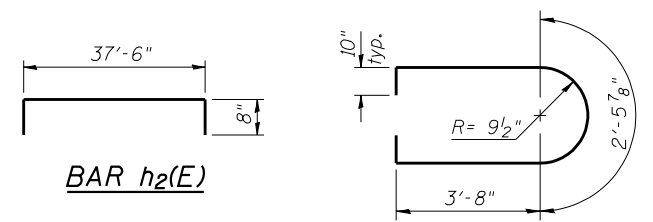


**SECTION THRU WALL AT PILE LOCATION**

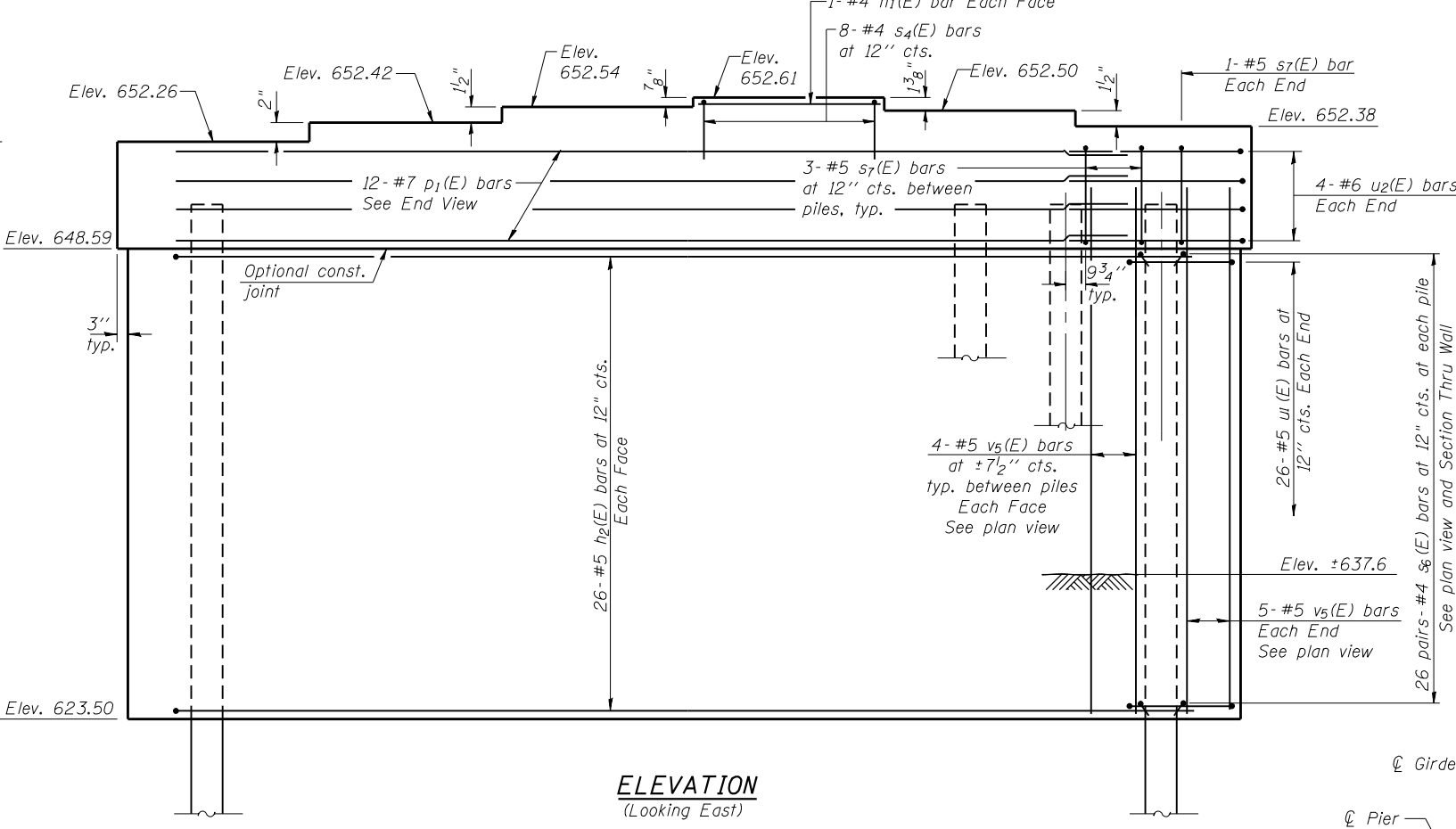
Showing alternating placement of  $s_6(E)$  bars



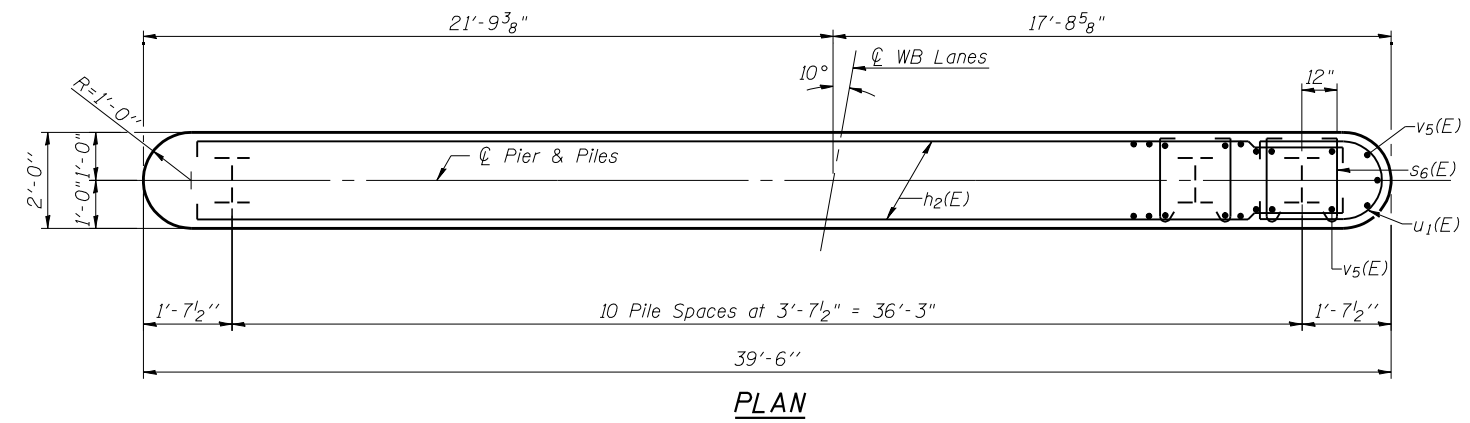
**TOP PLAN**



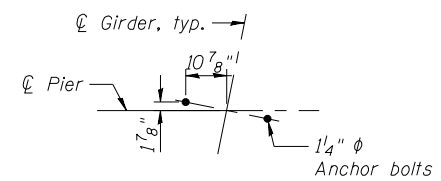
**END VIEW**



**ELEVATION (Looking East)**



**PLAN**



**ANCHOR BOLT LOCATION DIAGRAM**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	2	#4	7'-0"	—
$h_2(E)$	52	#5	38'-10"	U
$p_1(E)$	12	#7	37'-6"	—
$s_4(E)$	8	#4	6'-2"	U
$s_6(E)$	572	#4	2'-9"	U
$s_7(E)$	32	#5	11'-11"	□
$u_1(E)$	52	#5	11'-6"	U
$u_2(E)$	8	#6	12'-2"	U
$v_5(E)$	90	#5	27'-3"	—
Concrete Structures	Cu. Yd.		84.9	
Reinforcement Bars, Epoxy Coated	Pound		7840	
Furnishing Steel Piles HP 14 x 89	Foot		400	
Driving Piles HP 14 x 89	Foot		400	
Test Pile Steel HP 14 x 89	Each		1	
Pile Shoes	Each		11	
Cofferdam Excavation	Cu. Yd.		301	
Seal Coat Concrete	Cu. Yd.		52.8	

**PILE DATA**

Type: Steel HP 14x89 with pile shoes  
 Nominal Required Bearing: 705 kip  
 Factored Resistance Available: 388 kip  
 Est. Length: 40 ft.  
 No. Production Piles: 10  
 No. Test Piles: 1

FILE NAME = 0063-78134-035-pier2\_wb.dgn  
 CB PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

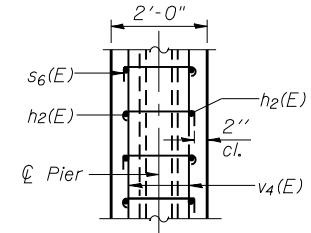
**PIER 2  
 STRUCTURE NO. 036-0063 (W.B.)**

SHEET NO. 35 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 488
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

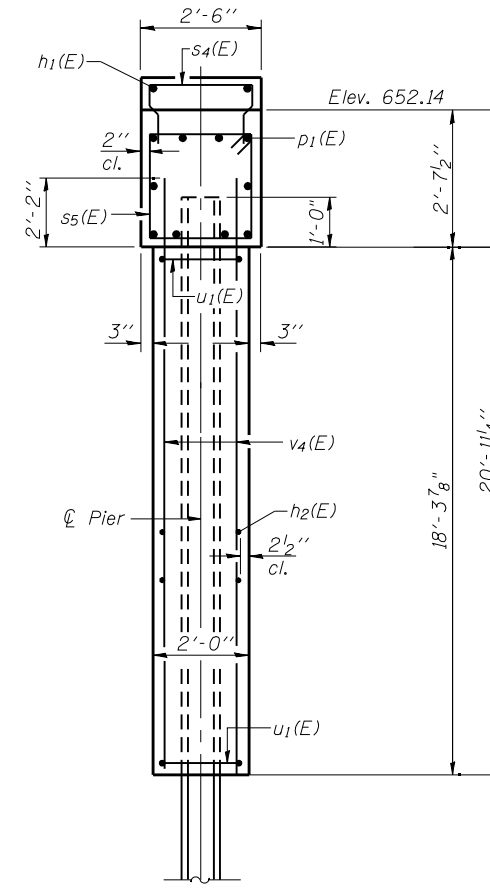


Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles and encasement, see sheet 38 of 45.



**SECTION THRU WALL AT PILE LOCATION**

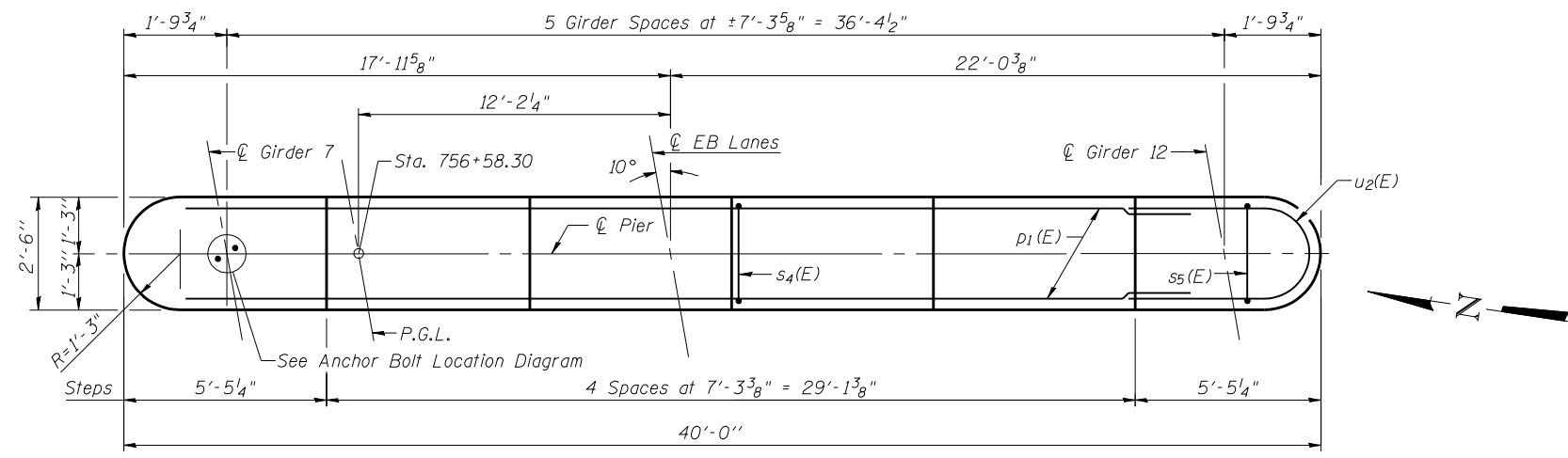
Showing alternating placement of s<sub>6</sub>(E) bars



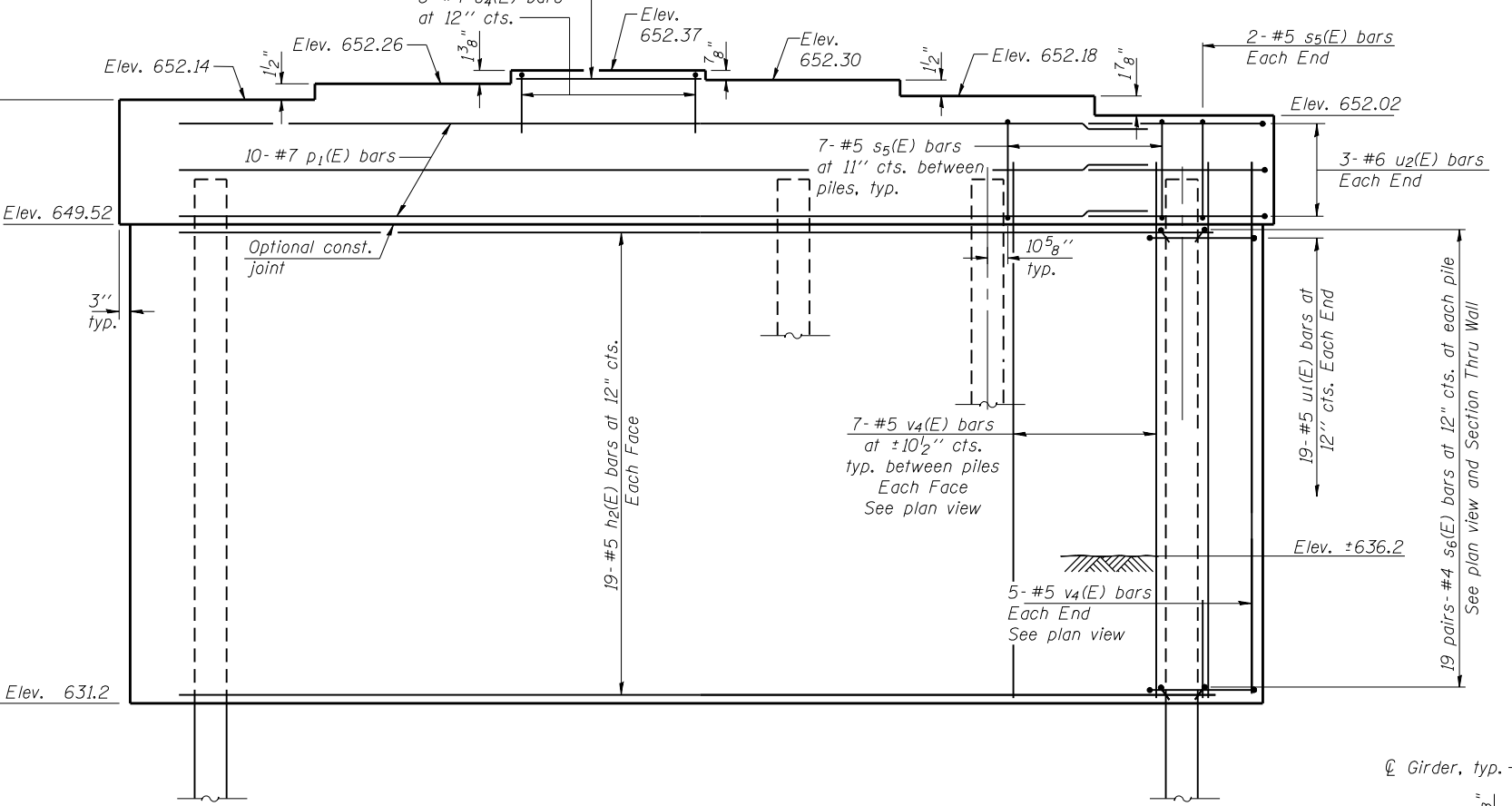
**END VIEW**

**PILE DATA**

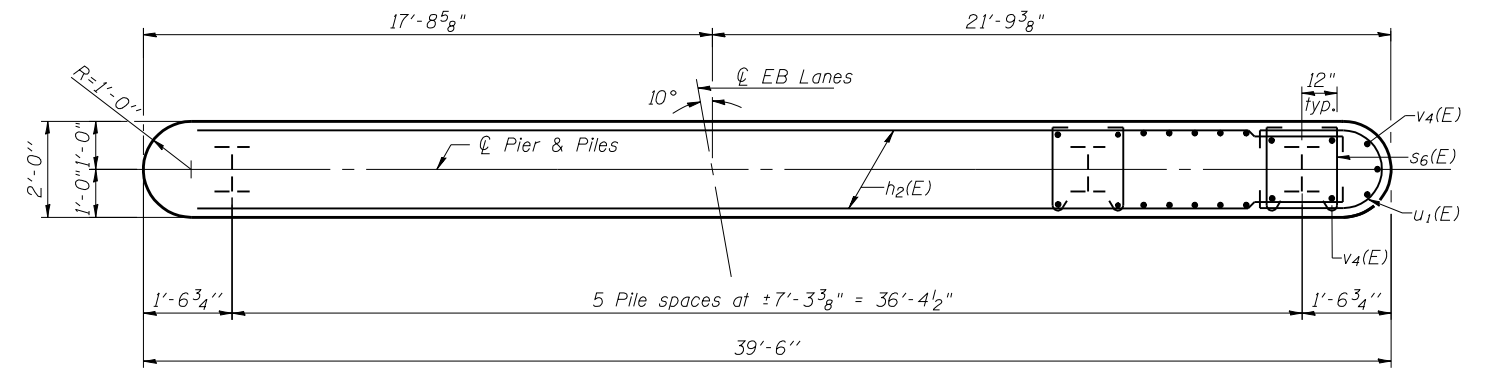
Type: Steel HP 14x89 with pile shoes  
 Nominal Required Bearing: 705 kip  
 Factored Resistance Available: 388 kip  
 Est. Length: 66 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1



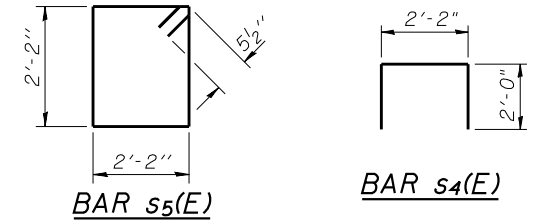
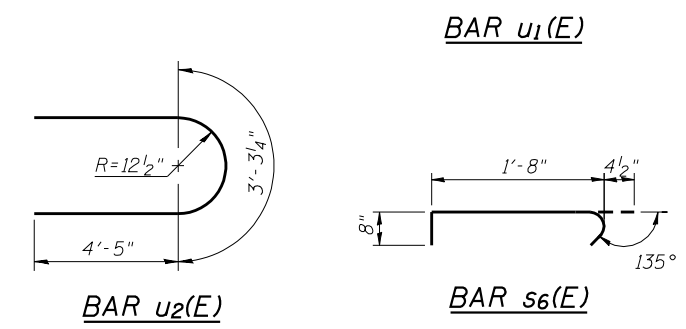
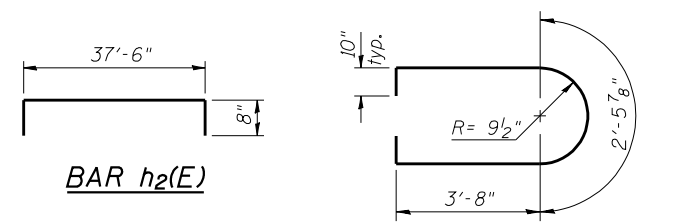
**TOP PLAN**



**ELEVATION (Looking East)**

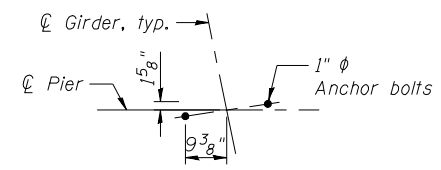


**PLAN**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	2	#4	7'-0"	—
h <sub>2</sub> (E)	38	#5	38'-10"	—
p <sub>1</sub> (E)	10	#7	37'-6"	—
s <sub>4</sub> (E)	8	#4	6'-2"	—
s <sub>5</sub> (E)	37	#5	9'-7"	—
s <sub>6</sub> (E)	228	#4	2'-9"	—
u <sub>1</sub> (E)	38	#5	11'-6"	—
u <sub>2</sub> (E)	6	#6	12'-2"	—
v <sub>4</sub> (E)	80	#5	20'-4"	—
Structure Excavation		Cu. Yd.	48	
Concrete Structures		Cu. Yd.	62.1	
Reinforcement Bars, Epoxy Coated		Pound	5400	
Furnishing Steel Piles HP 14 x 89		Foot	330	
Driving Piles HP 14 x 89		Foot	330	
Test Pile Steel HP 14 x 89		Each	1	
Pile Shoes		Each	6	



**ANCHOR BOLT LOCATION DIAGRAM**

FILE NAME = 0363-78134-036-pier1.abdgn  
 CB PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

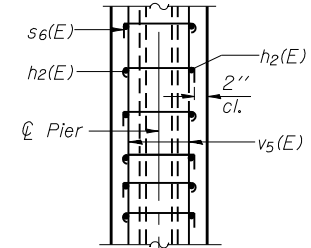
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PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

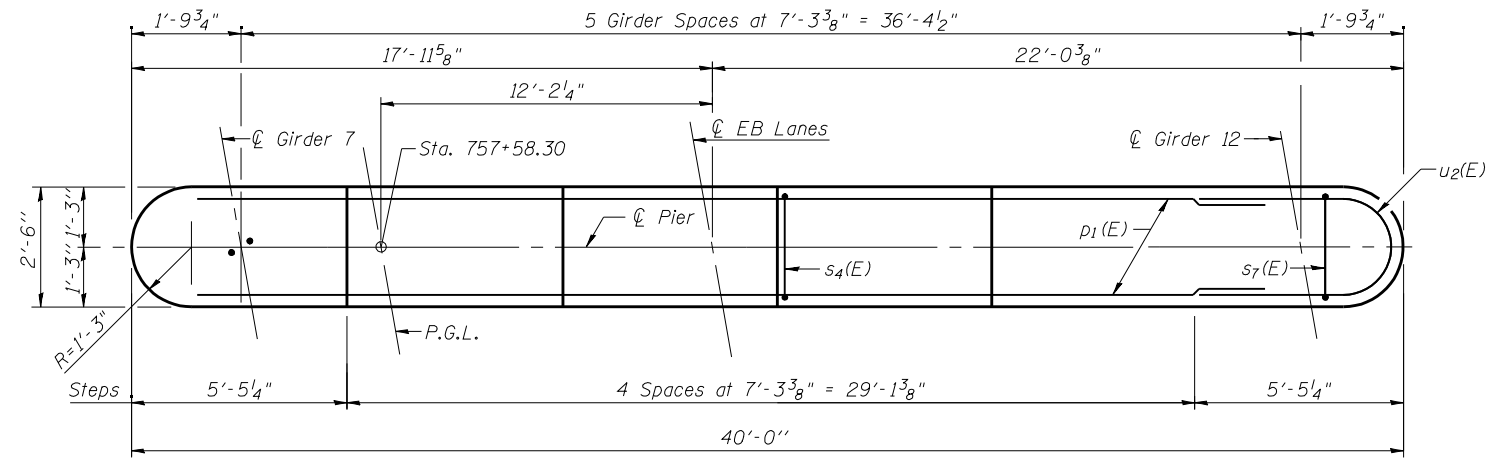
**PIER 1  
 STRUCTURE NO. 036-0062 (E.B.)**  
 SHEET NO. 36 OF 45 SHEETS

F.A.P. RTE. 313	SECTION 7-2, 6-1	COUNTY HENDERSON	TOTAL SHEETS 976	SHEET NO. 489
			CONTRACT NO. 68409	
ILLINOIS FED. AID PROJECT				

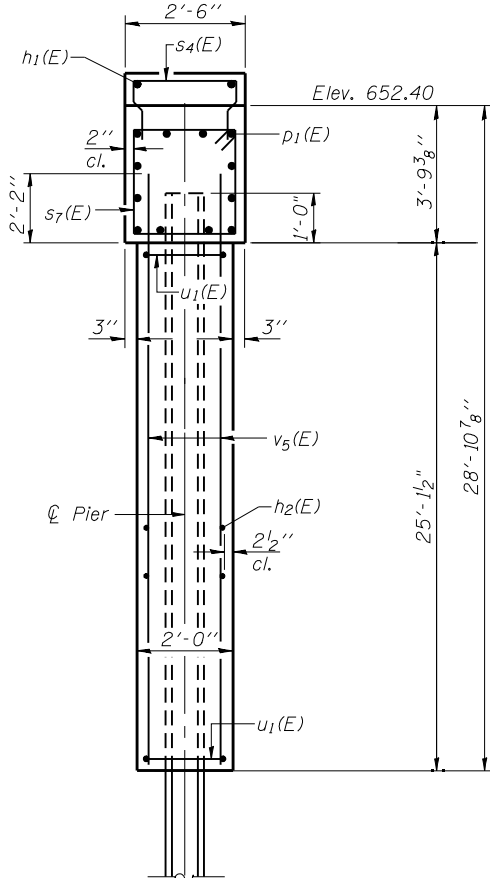
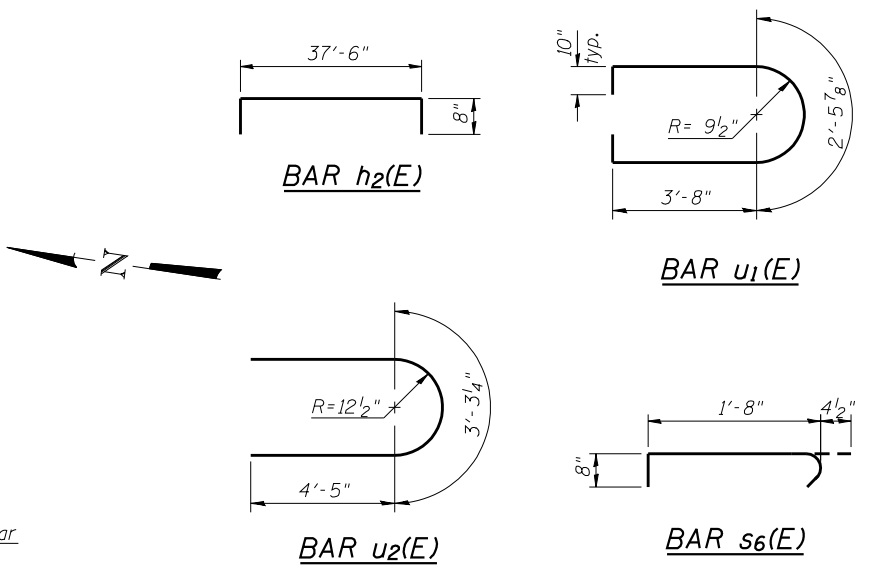
Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles and encasement, see sheet 38 of 45.



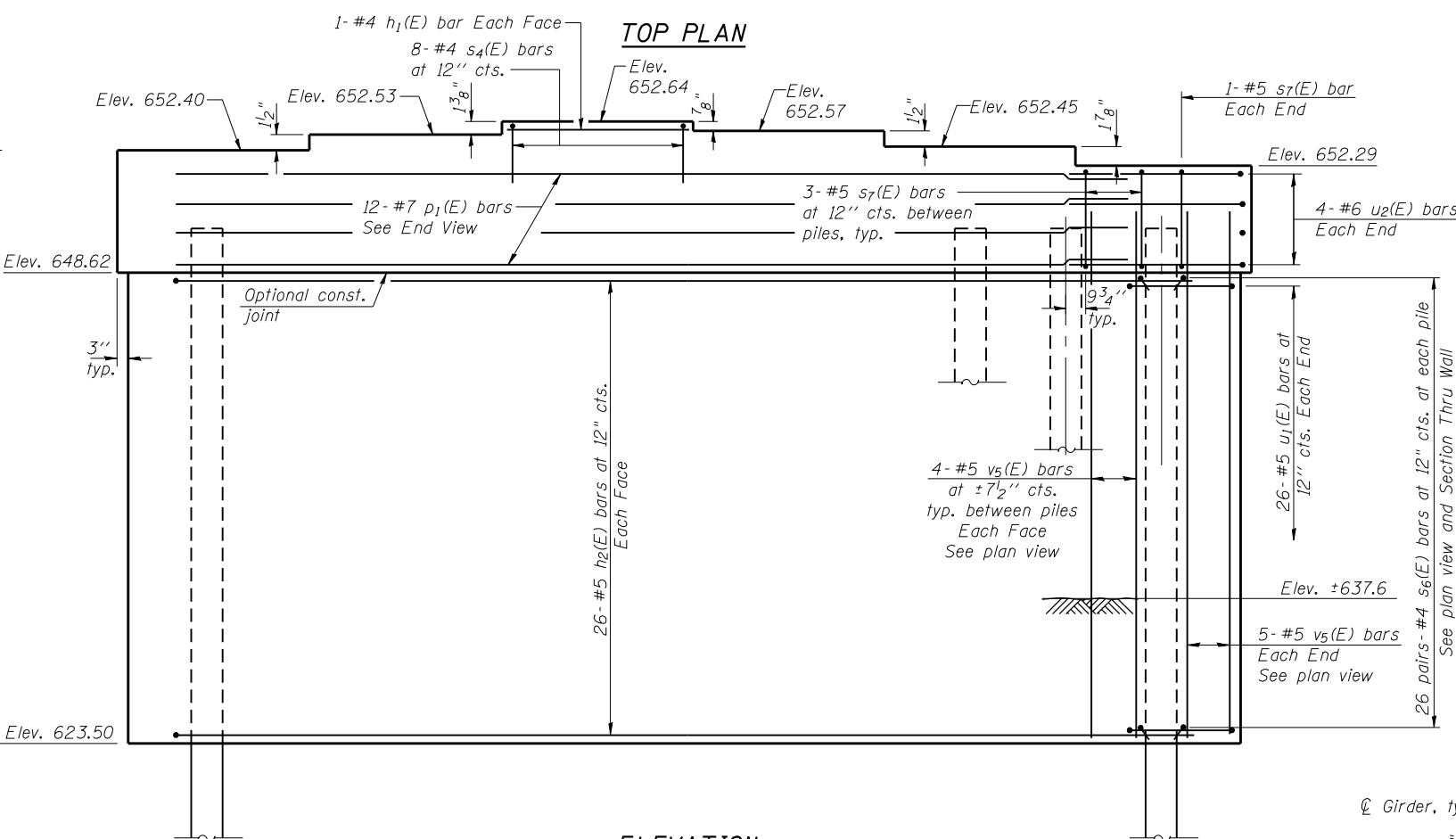
**SECTION THRU WALL AT PILE LOCATION**  
 Showing alternative placement of  $s_6(E)$  bars



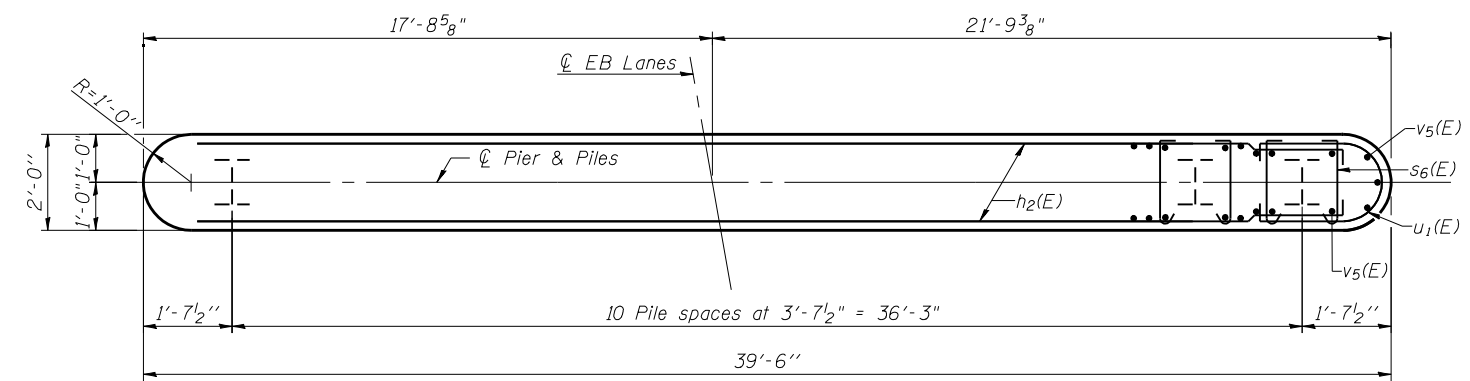
**TOP PLAN**



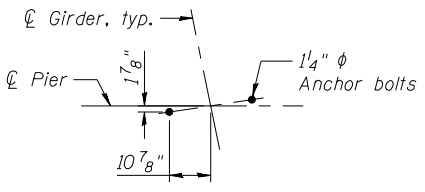
**END VIEW**



**ELEVATION (Looking East)**



**PLAN**



**ANCHOR BOLT LOCATION DIAGRAM**

**PILE DATA**

Type: Steel HP 14x89 with pile shoes  
 Nominal Required Bearing: 705 kip  
 Factored Resistance Available: 388 kip  
 Est. Length: 57 ft.  
 No. Production Piles: 10  
 No. Test Piles: 1

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	2	#4	7'-0"	—
$h_2(E)$	52	#5	38'-10"	U
$p_1(E)$	12	#7	37'-6"	—
$s_4(E)$	8	#4	6'-2"	U
$s_6(E)$	572	#4	2'-9"	U
$s_7(E)$	32	#5	11'-11"	□
$u_1(E)$	52	#5	11'-6"	U
$u_2(E)$	8	#6	12'-2"	U
$v_5(E)$	90	#5	27'-3"	—
Concrete Structures		Cu. Yd.	84.9	
Reinforcement Bars, Epoxy Coated		Pound	7840	
Furnishing Steel Piles HP 14 x 89		Foot	570	
Driving Piles		Foot	570	
Test Pile Steel HP 14 x 89		Each	1	
Pile Shoes		Each	11	
Cofferdam Excavation		Cu. Yd.	301	
Seal Coat Concrete		Cu. Yd.	52.8	

**PIER 2  
 STRUCTURE NO. 036-0062 (EB)**

FILE NAME = 0063-78134-037-pier2\_eb.dgn  
 PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.  
 PLOT SCALE = 0/2" = 1" / IN.  
 PLOT DATE = 10/16/2012

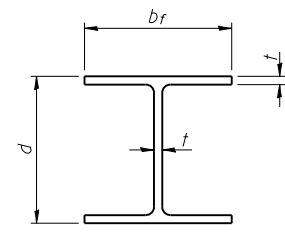
DESIGNED - CME  
 CHECKED - MCB  
 DRAWN - MML  
 CHECKED - MCB  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 2  
 STRUCTURE NO. 036-0062 (E.B.)**

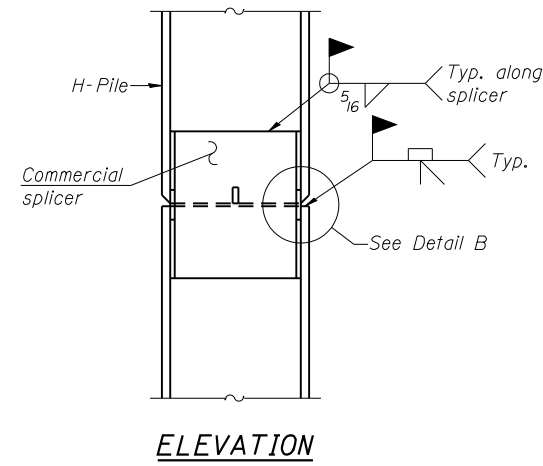
SHEET NO. 37 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	490
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

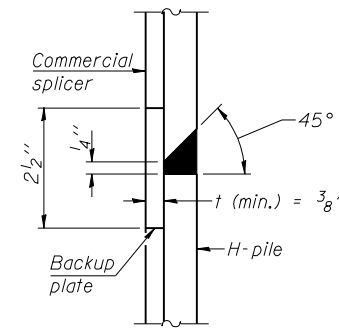


**STEEL PILE TABLE**

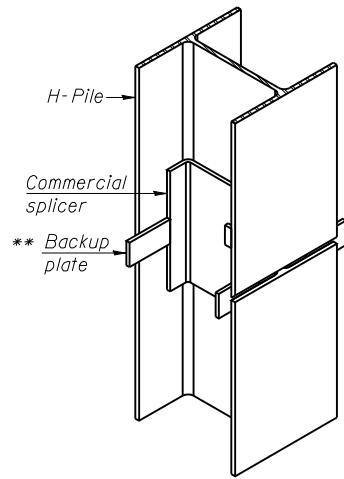
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

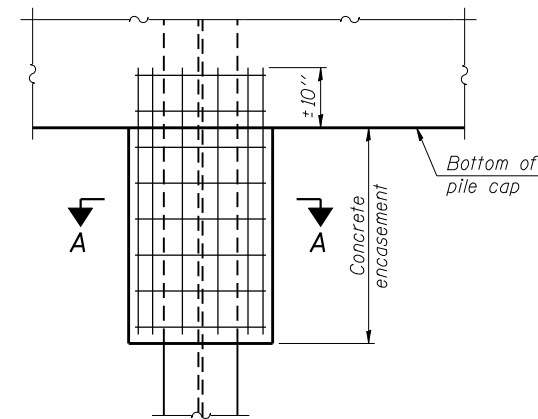


**DETAIL "B"**



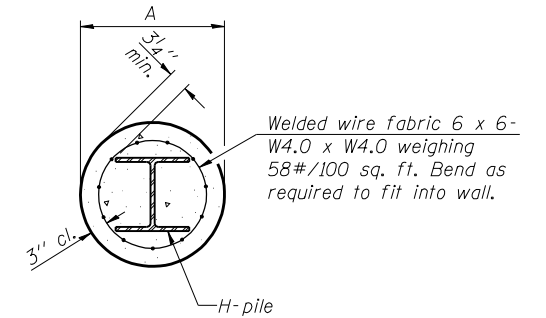
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**



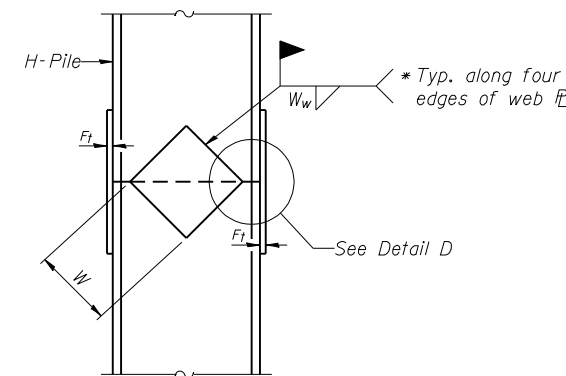
**ELEVATION**

**PILE ENCASEMENT**

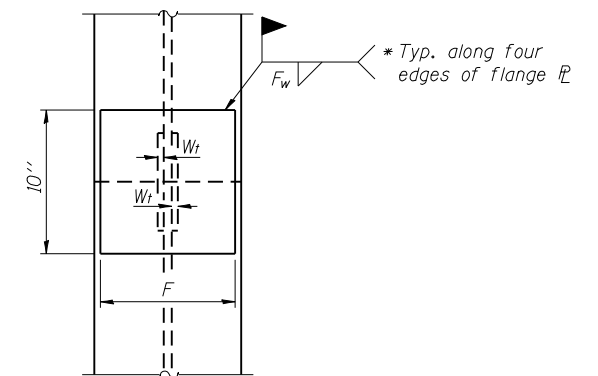


**SECTION A-A**

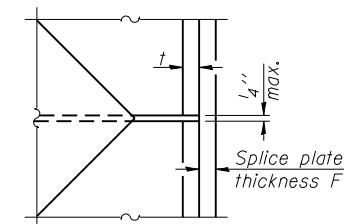
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



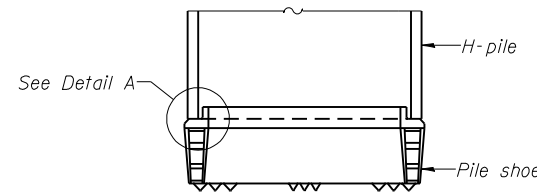
**END VIEW**



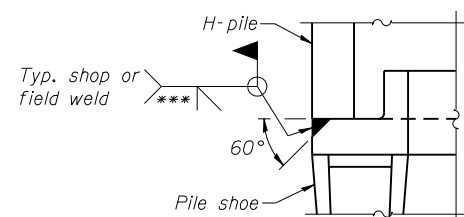
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

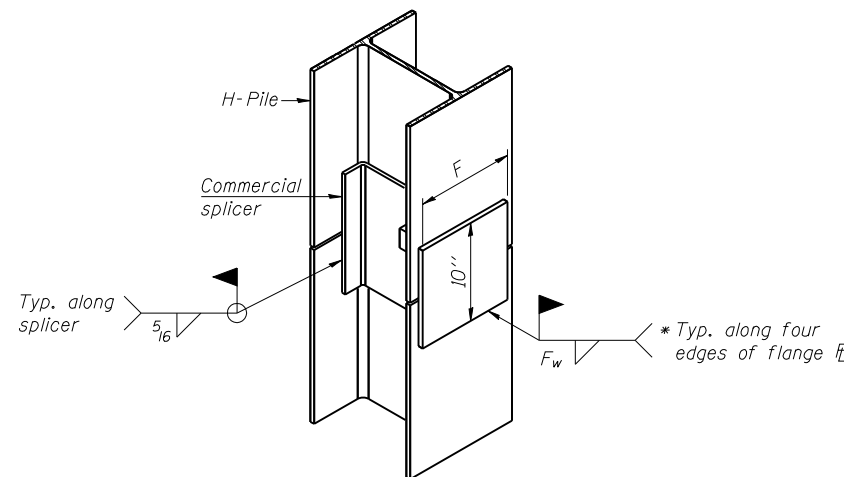


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = 036-063-78134-038-ml.en.dgn  
PROJECT NO. 04065

**F-HP**  
1-27-12  
Coombe-Bloxdorf P.C.  
CIVIL ENGINEERS-  
STRUCTURAL ENGINEERS-  
LAND SURVEYORS-  
Design Firm License No. 184-002703

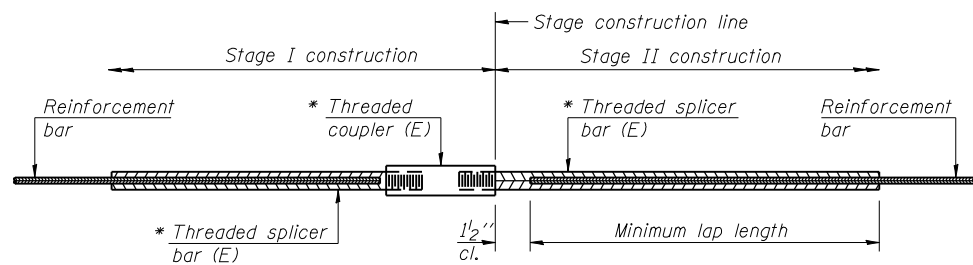
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CHECKED - MCB	REVISOR -	
PLOT SCALE = 0/2" = 1" / IN.	DRAWN - MML	REVISOR -
PLOT DATE = 10/16/2012	CHECKED - MCB	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS  
STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 38 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	491
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

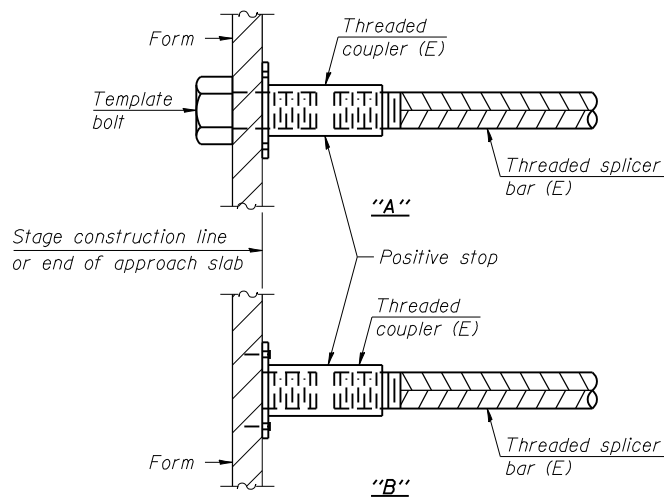
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

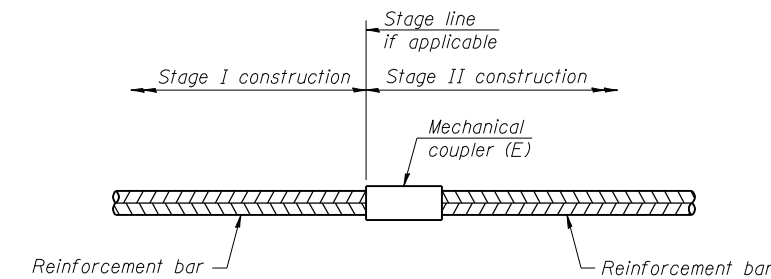
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



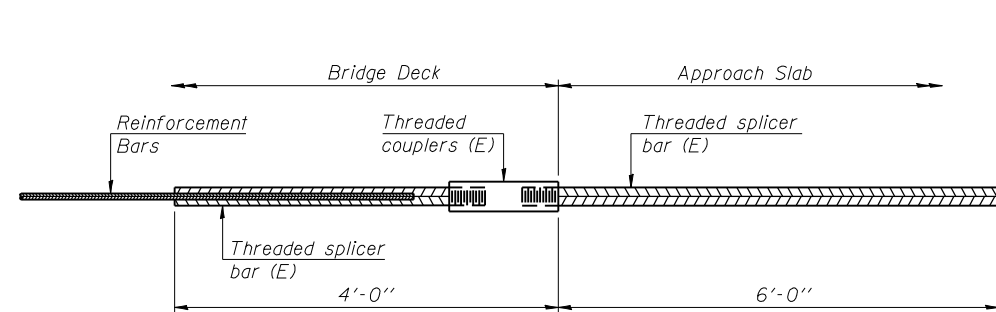
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



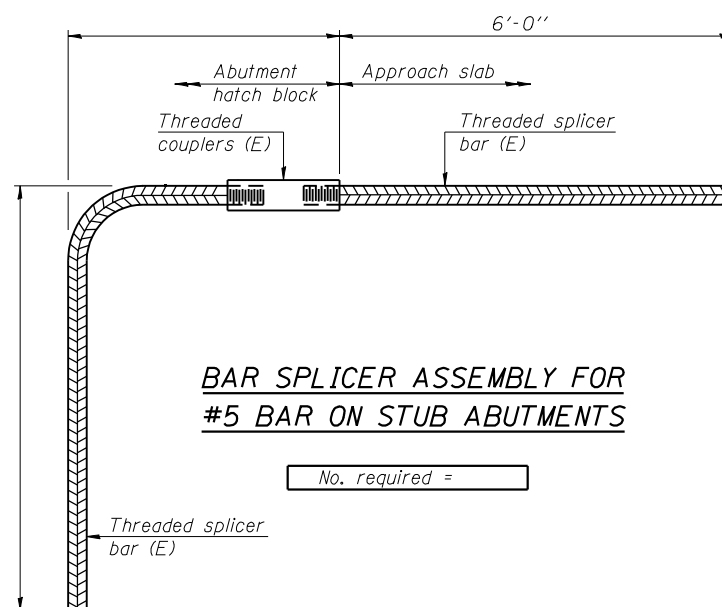
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 172



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = 036-062-78134-039-splicer.dgn  
 PROJECT NO. 04065

BSD-1

1-27-12

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0/2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 39 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	492
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT



ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date 5/12/11

ROUTE U. S. 34 DESCRIPTION Bridge Over Henderson Creek

SECT. 7-2-6-1 STRUCT. NO. \_\_\_\_\_ DRILLED BY B. Williamson

COUNTY Henderson LOCATION Biggsville Township S. 21, TWP. 10N, RNG. 4W

Boring No.	Station	Offset	Surface Elev.	D E P T H	B L O W S	Qu tsf	W %	Surface Water Elev.	Groundwater Elev.:	D E P T H	B L O W S	Qu tsf	W %
R34-03	757+63	52.00ft RT	636.40						626.4				
Soft dark brown SILTY LOAM					1 1 2	S 0.49	27	Very soft gray SILTY LOAM					
Soft to very soft brown SILTY CLAY LOAM					1 2 2	B 0.35	29	SHALE with LIMESTONE FRAGMENTS					
Soft brown SANDY CLAY LOAM					0 0 1	B 0.17	36	SHALE with LIMESTONE FRAGMENTS					
Very loose brown SANDY LOAM					1 1 2		22	Boring continued with rock core					
Very soft gray SILTY LOAM					1 1 3	S 0.13	31	SHALE with LIMESTONE FRAGMENTS					
Very stiff gray SILTY LOAM					4 1 7	S 2.06	21	SHALE with LIMESTONE FRAGMENTS					
Medium stiff gray SILTY LOAM					2 1 2	S 0.70	29	SHALE with LIMESTONE FRAGMENTS					

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test  
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation  
STRUCTURE ROCK CORING LOG

Page 2 of 2  
Date 5/12/11

ROUTE U. S. 34 DESCRIPTION Bridge Over Henderson Creek

SECT. 7-2-6-1 STRUCT. NO. \_\_\_\_\_ DRILLED BY B. Williamson

COUNTY Henderson

Boring No. R34-03 Core Type NX

Station 757+63 Core Diameter 2 in

Offset 52.00ft RT Core Length 16 ft

Surface Elev. 636.40 ft

Top Elev.	Coring Notes and Rock Description	Core Run (#)	RECOVER Y (%)	R . Q . D (%)	CORE TIME (Min/ft)	COMP. STRNGTH (psi)
594.40	LIMESTONE	1	89	55		
592.40	SHALE					
589.90	LIMESTONE					
578.40	End of Boring at 58'					

Color pictures of the cores \_\_\_\_\_

Cores will be stored for examination until \_\_\_\_\_

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date 5/12/11

ROUTE U. S. 34 DESCRIPTION Bridge Over Henderson Creek

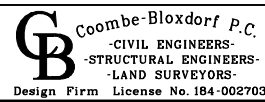
SECT. 7-2-6-1 STRUCT. NO. \_\_\_\_\_ DRILLED BY B. Williamson

COUNTY Henderson LOCATION Biggsville Township S. 21, TWP. 10N, RNG. 4W

Boring No.	Station	Offset	Surface Elev.	D E P T H	B L O W S	Qu tsf	W %	Surface Water Elev.	Groundwater Elev.:	D E P T H	B L O W S	Qu tsf	W %
R34-04	757+76	37.00ft LT	637.80						629.3				
Medium stiff to soft dark brown SILTY LOAM					1 2 2	S 0.52	27	Boring continued with rock core					
Medium stiff dark brown SANDY LOAM					2 2 2	S 0.37	30	SHALE with LIMESTONE FRAGMENTS					
Very loose gray SILT					0 1 1	B 0.37	28	SHALE with LIMESTONE FRAGMENTS					
Medium dense gray SILT					1 1 1	S 0.93	40	SHALE with LIMESTONE FRAGMENTS					
SHALE with LIMESTONE FRAGMENTS					0 0 1	S 0.93	36	SHALE with LIMESTONE FRAGMENTS					
SHALE with LIMESTONE FRAGMENTS					1 1 1		31	SHALE with LIMESTONE FRAGMENTS					
SHALE with LIMESTONE FRAGMENTS					1 1 3		24	SHALE with LIMESTONE FRAGMENTS					
SHALE with LIMESTONE FRAGMENTS					6 8 10		4	SHALE with LIMESTONE FRAGMENTS					

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test  
Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = 0063-78134-041-bor-logs.dgn  
PROJECT NO. 04065



USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS  
STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 41 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	494
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

Testing Service Corporation  
STRUCTURE ROCK CORING LOG

Page 2 of 2  
Date 5/12/11

ROUTE U.S. 34 DESCRIPTION Bridge Over Henderson Creek

SECT. 7-2-6-1 STRUCT. NO. DRILLED BY B. Williamson

COUNTY Henderson

Boring No. R34-04 Core Type NX  
Station 757+76 Core Diameter 2 in  
Offset 37.00ft LT Core Length 15 ft

Surface Elev. 637.80 ft

Top Elev.	Coring Notes and Rock Description	Core Run (#)	R C O V E R Y (%)	R Q D (%)	C O R E T I M E (Min/ft)	C O M P. S T R E N G T H (psi)
610.80	LIMESTONE	1	68	18		
608.80	SHALE					
607.80	LIMESTONE					
600.80	SHALE	2	100	83		
599.30	LIMESTONE					
595.80	End of Boring at 42'					

Color pictures of the cores \_\_\_\_\_

Cores will be stored for examination until \_\_\_\_\_

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date 5/16/11

ROUTE U.S. 34 DESCRIPTION Bridge Over Henderson Creek

SECT. 7-2-6-1 STRUCT. NO. DRILLED BY B. Williamson

COUNTY Henderson LOCATION Biggsville Township S. 21, TWP. 10N, RNG. 4W

Boring No. R34-05  
Station 758+39  
Offset 44.00ft RT

Surface Elev. 637.20 ft

Surface Elev.	DESCRIPTION	D E P T H	B L O W S	Q u tsf	W %	Surface Water Elev.	D E P T H	B L O W S	Q u tsf	W %
634.20	Stiff dark brown SILTY CLAY LOAM	2	S	31						
		3		1.18						
631.20	Very stiff dark brown SILTY CLAY LOAM	3	P	24						
		2		2.5						
		3								
629.20	Medium stiff brown SILTY CLAY LOAM	2	B	21						
		3		0.61						
		4								
626.20	Very soft gray-brown SILTY CLAY LOAM	0		22						
		1								
		2								
624.20	Very stiff gray-brown SILTY CLAY LOAM	2	S	24						
		4		2.02						
		6								
619.20	Stiff gray SILTY LOAM	2	S	24						
		3		1.24						
		4								
		3	S	23						
		4		1.53						
		5								
	Soft gray SILTY LOAM	1	S	31						
		3		0.43						
		4								
		3	S	22						
		3		0.37						
		5								

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test  
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation  
STRUCTURE ROCK CORING LOG

Page 2 of 2  
Date 5/16/11

ROUTE U.S. 34 DESCRIPTION Bridge Over Henderson Creek

SECT. 7-2-6-1 STRUCT. NO. DRILLED BY B. Williamson

COUNTY Henderson

Boring No. R34-05 Core Type NX  
Station 758+39 Core Diameter 2 in  
Offset 44.00ft RT Core Length 15 ft

Surface Elev. 637.20 ft

Top Elev. ft	Coring Notes and Rock Description	Core Run (#)	R C O V E R Y (%)	R Q D (%)	C O R E T I M E (Min/ft)	C O M P. S T R E N G T H (tsf)
599.20	LIMESTONE	1	92	58		
596.20	SHALE					
586.20	LIMESTONE					
	End of Boring at 51'					

Color pictures of the cores \_\_\_\_\_

Cores will be stored for examination until \_\_\_\_\_

FILE NAME = 0063-78134-042-borings.dgn  
USER PROJECT NO. 04065

**Combe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BORING LOGS**  
**STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)**

SHEET NO. 42 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	495
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				







ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date 3/16/12

ROUTE U.S. 34 DESCRIPTION Bridge Over Henderson Creek  
SECT. 7-2-6-1 STRUCT. NO. \_\_\_\_\_ DRILLED BY M. Rutledge  
COUNTY Henderson LOCATION Biggsville Township S. 21, TWP. 10N, RNG. 4W

Boring No. R34-09 D E P T H B L O W S Qu W Surface Water Elev. \_\_\_\_\_  
Station 755+65 P O W S Groundwater Elev.: \_\_\_\_\_  
Offset 60.00ft RT T H S at drilling 624.0  
after \_\_\_\_\_ Hrs. 622.0

Depth (ft)	Penetration Test (Blows)	Soil Description	Penetration Test (Blows)
0 - 1	1	Soft dark brown SILTY LOAM	1
1 - 2	2		2
2 - 3	3		3
3 - 4			
4 - 5	2		5
5 - 6	1		6
6 - 7	2		8
7 - 8			
8 - 9			
9 - 10			
10 - 11			
11 - 12			
12 - 13			
13 - 14			
14 - 15			
15 - 16			
16 - 17			
17 - 18			
18 - 19			
19 - 20			
20 - 21			
21 - 22			
22 - 23			
23 - 24			
24 - 25			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 2 of 2  
Date 3/16/12

STRUCTURE NO. \_\_\_\_\_  
ROUTE U.S. 34  
SECTION 7-2-6-1  
COUNTY Henderson

Boring No. R34-09 D E P T H B L O W S Qu W  
Station 755+65 P O W S  
Offset 60.00ft RT T H S  
Elevation 587.00 ft

Depth (ft)	Penetration Test (Blows)	Soil Description	Penetration Test (Blows)
0 - 1		Medium stiff gray SILTY LOAM	
1 - 2			
2 - 3			
3 - 4			
4 - 5			
5 - 6			
6 - 7			
7 - 8			
8 - 9			
9 - 10			
10 - 11			
11 - 12			
12 - 13			
13 - 14			
14 - 15			
15 - 16			
16 - 17			
17 - 18			
18 - 19			
19 - 20			
20 - 21			
21 - 22			
22 - 23			
23 - 24			
24 - 25			

End of Boring at 55.5' - Auger Refusal

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION  
Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 1  
Date 3/16/12

ROUTE U.S. 34 DESCRIPTION Bridge Over Henderson Creek  
SECT. 7-2-6-1 STRUCT. NO. \_\_\_\_\_ DRILLED BY M. Rutledge  
COUNTY Henderson LOCATION Biggsville Township S. 21, TWP. 10N, RNG. 4W

Boring No. R34-10 D E P T H B L O W S Qu W Surface Water Elev. \_\_\_\_\_  
Station 755+65 P O W S Groundwater Elev.: \_\_\_\_\_  
Offset 60.00ft LT T H S at drilling 625.0  
after \_\_\_\_\_ Hrs. 624.0

Depth (ft)	Penetration Test (Blows)	Soil Description	Penetration Test (Blows)
0 - 1		Soft dark brown SILTY LOAM	
1 - 2			
2 - 3			
3 - 4			
4 - 5			
5 - 6			
6 - 7			
7 - 8			
8 - 9			
9 - 10			
10 - 11			
11 - 12			
12 - 13			
13 - 14			
14 - 15			
15 - 16			
16 - 17			
17 - 18			
18 - 19			
19 - 20			
20 - 21			
21 - 22			
22 - 23			
23 - 24			
24 - 25			

End of Boring at 33' - Auger Refusal

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = 0063-78134-045-borings.dgn  
PROJECT NO. 04065

**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS  
STRUCTURAL ENGINEERS  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - CME	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	CHECKED - MCB	REVISED -
PLOT DATE = 10/16/2012	DRAWN - MML	REVISED -
	CHECKED - MCB	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 036-0062 (E.B.) & 036-0063 (W.B.)

SHEET NO. 45 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	7-2, 6-1	HENDERSON	976	498
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

Benchmark: Chisled  $\square$  top @ 3'x3' Box Culvert, East Side IL 94, North Side ID07.  
Biggsville Operation Yard, Sta. 15+49.44, 23.04' Lt. (IL 94 - 1500 E), Elev. 713.53

No Existing Structure

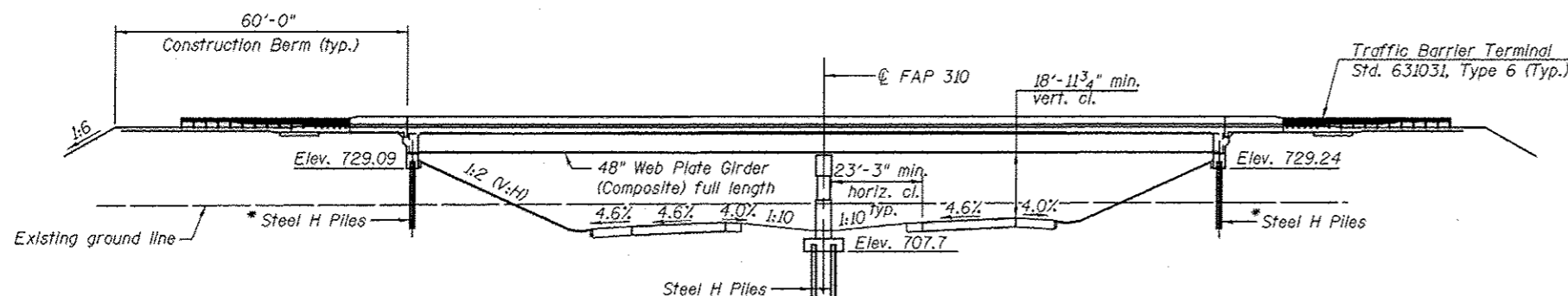
The roadway will be closed and traffic will be detoured during construction.

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.07  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.11  
Soil Site Class = C

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)  
 $f_y$  = 50,000 psi (M270 Grade 50)

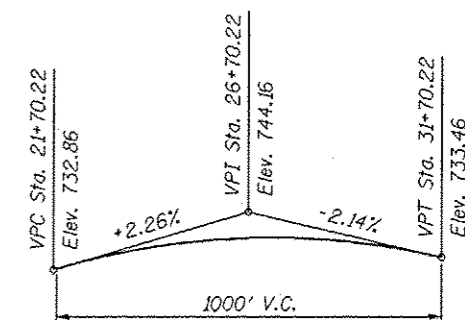
**DESIGN SPECIFICATIONS**  
2010 AASHTO LRFD Bridge Design Specifications  
5th Edition with 2010 Interims



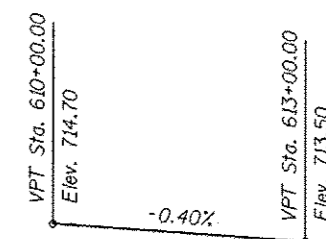
\*Precore through embankment prior to driving piles.  
See Sheets 17 & 18 of 23.

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Data
- 3-5 Top of Slab Elevations
- 6 Top of N. Approach Slab Elevations
- 7 Top of S. Approach Slab Elevations
- 8 Superstructure
- 9 Median Details
- 10 Superstructure Details
- 11 Integral Abutment Diaphragm Detail
- 14 Framing Plan
- 15 Structural Steel
- 16 Bearing Details
- 17 North Abutment
- 18 South Abutment
- 19 Pier
- 20 Steel H Piles
- 21 Bar Splicer Assembly and Mechanical Splicer Details
- 22-23 Soil Borings



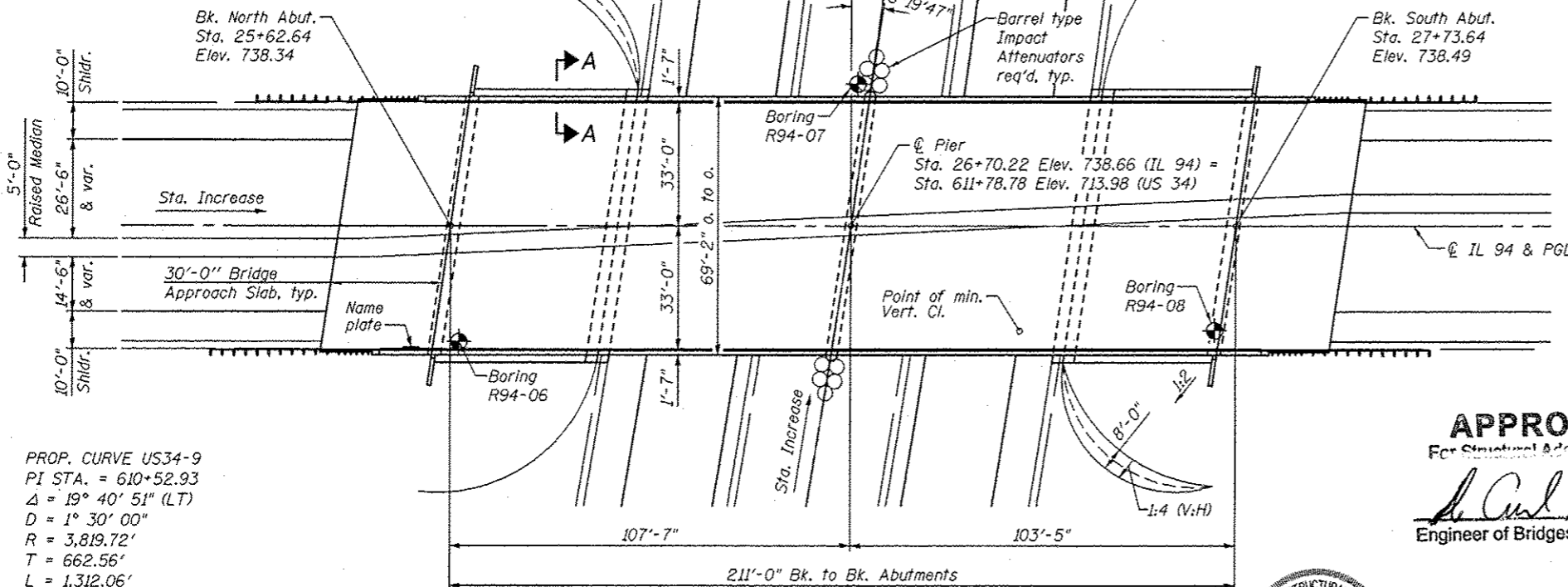
**PROPOSED PROFILE IL94**  
Along @ Roadway



**PROPOSED PROFILE US34**  
Along median edge of pavement

STATION 26+70.22  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. ROUTE 534, SEC. 7-2, 6-1  
LOADING HL-93  
STRUCTURE NO. 036-0065

**NAME PLATE**  
See Std. 515001

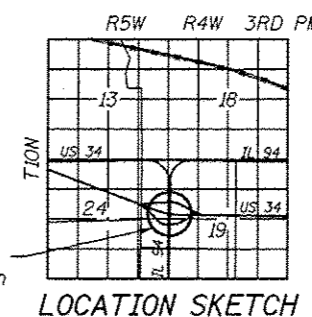


PROP. CURVE US34-9  
PI STA. = 610+52.93  
 $\Delta$  = 19° 40' 51" (LT)  
D = 1° 30' 00"  
R = 3,819.72'  
T = 662.56'  
L = 1,312.06'  
E = 57.04'  
o = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA. = 603+90.37  
P.T. STA. = 617+02.43

**APPROVED**  
For Structural Adequacy Only  
*Mary Coombe Bloxdorf*  
Engineer of Bridges & Structures



*Mary Coombe Bloxdorf*  
Project Location  
ILLINOIS STRUCTURAL NO. 4859  
EXPIRES 11/30/14  
DATE: 10/16/2012



**GENERAL PLAN & ELEVATION**  
**IL RTE 94/16 OVER US RTE 34**  
**FAP 534, SECTION 7-2, 6-1**  
**HENDERSON COUNTY**  
**STATION 26+70.22**  
**STRUCTURE NO. 036-0065**

FILE NAME: \\B360065-68489-9811-98-05gn  
CB PROJECT NO. 04665

**Coombe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-062703

USER NAME = MML	DESIGNED - RKM	REVISIONS -
PLOT SCALE = 42:1 1" / IN.	CHECKED - MCB	REVISIONS -
PLOT DATE = 10/16/2012	DRAWN - CFC/MML	REVISIONS -
	CHECKED - MCB	REVISIONS -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	7-2, 6-1	HENDERSON	976	499
CONTRACT NO. 68409				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts 7/8" diameter, holes 15/16" diameter, unless otherwise noted.

Calculated weight of Structural Steel = 428,720 lbs. 38,650 lbs. M270 Gr. 36 and 390,070 M270 Gr. 50

No field welding is permitted except as specified in contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

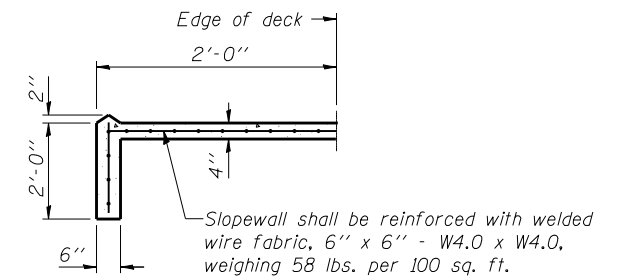
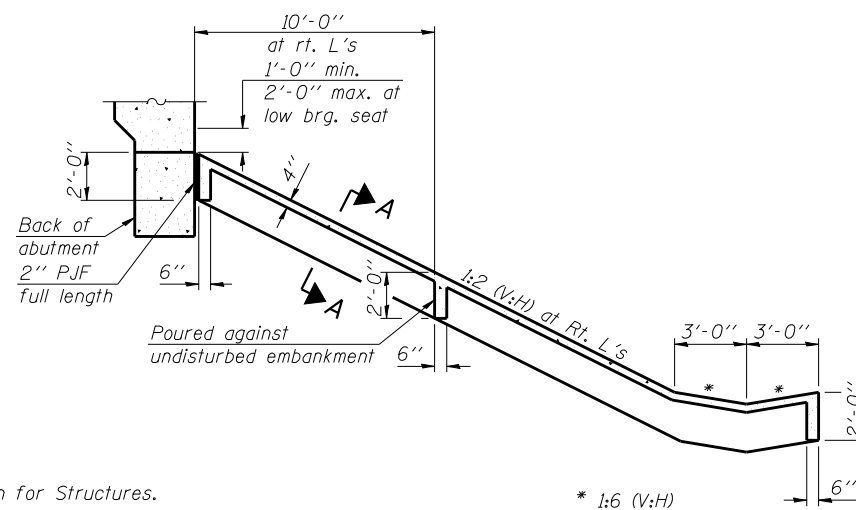
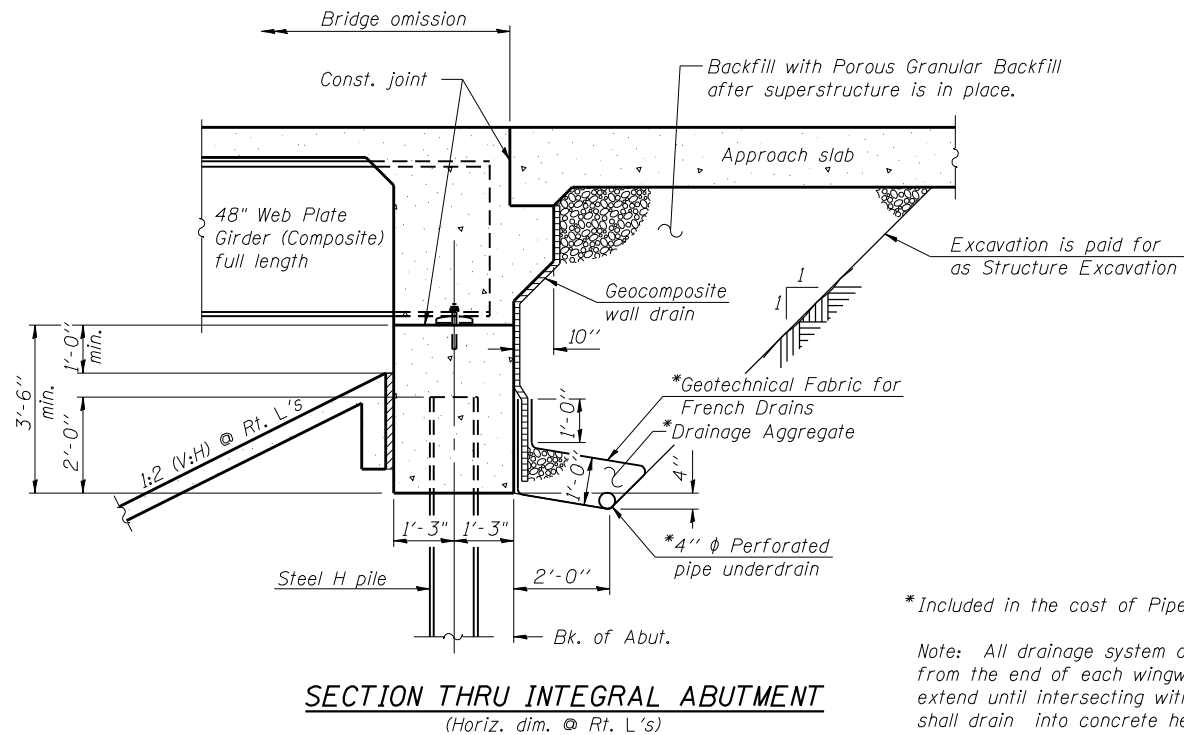
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Slipforming of the parapets will not be allowed.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Backfill	Cu. Yd.		243	243
Structure Excavation	Cu. Yd.		248	248
Concrete Structures	Cu. Yd.		252.0	252.0
Concrete Superstructure	Cu. Yd.	710.4		710.4
Bridge Deck Grooving	Sq. Yd.	1928		1928
Concrete Encasement	Cu. Yd.		11.0	11.0
Protective Coat	Sq. Yd.	2198		2198
Furnishing and Erecting Structural Steel	L. Sum	0.33		0.33
Stud Shear Connectors	Each	4968		4968
Reinforcement Bars, Epoxy Coated	Lb.	176,850	46,350	223,200
Bar Splicers	Each	138		138
Slopedwall 4 inch	Sq. Yd.		773	773
Furnishing Steel Piles HP 14x89	Foot		2947	2947
Test Pile Steel HP 14x89	Each		1	1
Driving Piles	Foot		2947	2947
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	32		32
Anchor Bolts, 1 1/4"	Each	16		16
Geocomposite Wall Drain	Sq. Yd.		136	136
Pipe Underdrains for Structures 4"	Foot		219	219



\*Included in the cost of Pipe Underdrain for Structures.

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

FILE NAME: E:\99\09-002-gen-dtd.dgn  
CB PROJECT: ND

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS  
 STRUCTURAL ENGINEERS  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = .MML.	DESIGNED - RKM	REVISED -
PLOT SCALE = 100:0.000000 "/>		

CHECKED - MCB	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
 STRUCTURE NO. 036-0065**

SHEET NO. 2 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	7-2, 6-1	HENDERSON	976	500
CONTRACT NO. 68409				

ILLINOIS FED. AID PROJECT