

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	205
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

Contract #72A76

Plan view of the bridge deck showing dimensions and centerlines. The deck is 42'-6" wide, symmetrical about the roadway centerline. The total length is 21'-3" on each side of the centerline. The deck is divided into sections by centerlines of piers and bents. The dimensions are as follows:

- Overall width: 42'-6"
- Overall length: 21'-3" (each side of centerline)
- Section dimensions from left to right: 6'-9", 7'-3", 7'-3", 7'-3", 7'-3", 7'-3", 6'-9"
- Centerlines: C/L Pier No. 11 , Sta. 920+91.00 , $\text{Sym. about C/L Roadway}$, C/L Pier , C/L Brg.
- Radius: 1'-6" Rad.
- Angles: 25°
- Dimensions: 3'-0", 1'-6", 1'-6", 3'-1 1/16", 3'-1 1/16"
- Labels: 1, 2, 3, 4, 5, 6
- Text: 5 Bearing Spaces at abt 7'-3 3/16" = 36'-3 7/8"
- Other labels: U2(E), p2(E), s2(E)

The diagram shows a U-shaped bar with the following dimensions and labels:

- Top horizontal segment:** Length is $2'-2"$. The vertical distance from the top of the vertical segment to the top of this segment is $u1(E)$. The vertical distance from the bottom of the vertical segment to the bottom of this segment is $u2(E)$.
- Vertical segment:** The vertical distance from the top of the horizontal segment to the top of the vertical segment is $2'-7"$. The vertical distance from the bottom of the horizontal segment to the bottom of the vertical segment is $2'-7"$.
- Bottom horizontal segment:** Length is $2'-2"$. The vertical distance from the bottom of the vertical segment to the bottom of this segment is $u1(E)$. The vertical distance from the top of the vertical segment to the top of this segment is $u2(E)$.
- Curved segment:** The radius of the curve is $1'-1"$. The angle of the curve is $1'-3\frac{1}{2}"$. The vertical distance from the top of the vertical segment to the top of the curve is $3'-5"$. The vertical distance from the bottom of the vertical segment to the bottom of the curve is $4'-1"$.

Varies 2'-6" to 2'-9"

3'-0"

1'-6" 1'-6"

s2(E)

p2(E)

2" cl. (Typ.)

12" Typ.

2'-6 7/8"

El. 466.59

14'-0"

16'-6 7/8"

3"

Typ.

3"

u1(E)

3"

v8(E)

h8(E)

2" cl.

2'-6"

u1(E)

3" cl.

3'-0"

El. 450.01

2'-6"

END VIEW

El. 466.59

El. 466.70

El. 466.76

El. 466.65

El. 466.51

32-#5 s2(E) bars

1-#5 s2(E) bar (Each End)

3-#6 u2(E) bars (Each End)

2'-6"

7-#7 p2(E) bars (see END VIEW)

Optional const. joint

9" Typ.

9" Typ.

3-#5 s2(E) bars at 14" cts. (Typ. btwn. piles)

41-#6 v8(E) bars at 12" cts. (Each Face)

3-#6 v8(E) bars (Each End)

15-#5 u1(E) bars at 12" cts. (Each End)

El. 464.01

15-#5 h8(E) bars at 12" cts. (Each Face)

© Roadway, P.G.L. & F.A.P. Rte 614

El. ±451.0

±1'-0"

Concrete Encasement (Typ. all Piles)

ELEVATION
(Looking South)

© Pier No. 11

Sym. about

2'-6"

1'-3" 1'-3"

1'-10"

1'-3" Rad.

1'-10"

21'-0"

10 Pile Spaces at 3'-10" = 38'-4"

21'-0"

1'-10"

FOOTING PLAN

Centerline of Pier No. 11
Sta. 920+91.00

Sym. about
Centerline of Roadway

Centerline of Pier & Brg.

h8(E)

u1(E)

v8(E)

25°

Bar	No.	Size	Length	Shape
h8(E)	30	#5	39'-6"	—
p2(E)	7	#7	39'-6"	—
s2(E)	32	#5	10'-7"	□
u1(E)	30	#5	7'-9"	⌋
u2(E)	6	#6	9'-3"	⌋
v8(E)	88	#6	15'-6"	—
Structure Excavation			Cu. Yd.	6
Concrete Structures			Cu. Yd.	66.1
Reinforcement Bars, Epoxy Coated			Pound	4530
Furnishing Steel Piles, HP 14x89			Foot	950
Driving Piles			Foot	950
Test Pile, HP 14x89			Each	1
Concrete Encasement			Cu. Yd.	6.0
Pile Shoes			Each	11
Braced Excavation			Cu. Yd.	64

© Copyright Hanson Professional Services Inc. \$MS_YEAR\$		JOB NO. 07S2026
 HANSON Hanson Professional Services Inc.		DATE 03/27/09