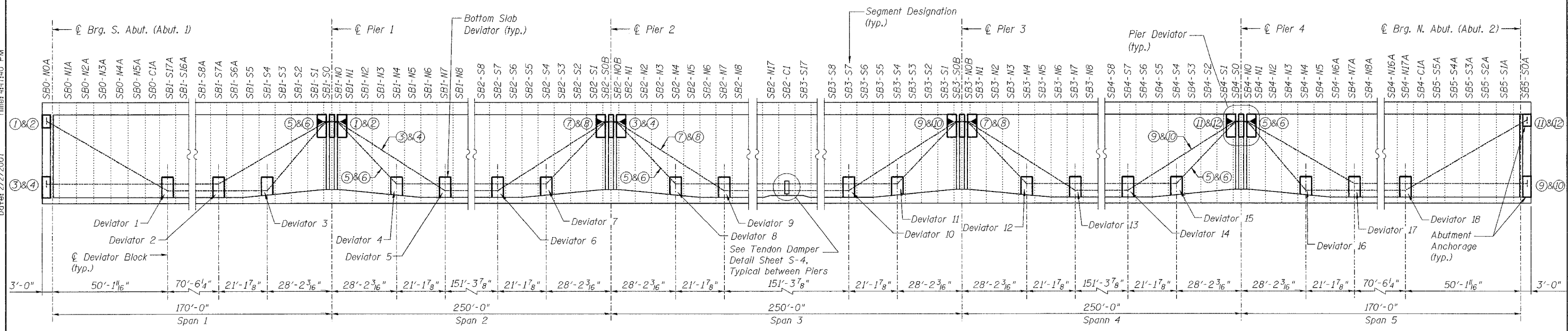


ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 39	201-1BR	WINNEBAGO	14	40
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 64857	

Date: 2/2/2007 Time: 4:41:40 PM



**LONGITUDINAL SECTION THRU BOX GIRDER**  
 (Steps at deviators not shown for clarity)  
 (Southbound Segment Designations Shown, Northbound Similar)

**STRESSING SEQUENCE**

Stress Sequence	Tendon**	Stress End	Elongation***
1	7-L	Downstation	1'-5 7/8"
2	8-R	Downstation	1'-5 1/16"
3	3-L	Upstation	2'-2 3/16"
4	4-R	Upstation	2'-2 3/4"
5	3-R	Upstation	2'-2 3/16"
6	4-L	Upstation	2'-2 3/4"
7	9-L	Downstation	2'-2 3/16"
8	10-R	Downstation	2'-2 1/16"
9	9-R	Downstation	2'-2 3/16"
10	10-L	Downstation	2'-2 1/16"
11	8-L	Upstation	1'-5 1/16"
12	7-R	Upstation	1'-5 7/8"
13	5-L	Downstation	3'-1 5/8"
14	6-R	Downstation	2'-11 5/16"
15	1-L	Upstation	0'-11 5/8"
16	2-R	Upstation	0'-11 3/8"
17	5-R	Downstation	3'-1 5/8"
18	6-L	Downstation	2'-11 5/16"
19	1-R	Upstation	0'-11 5/8"
20	2-L	Upstation	0'-11 3/8"
21	11-L	Downstation	0'-11 5/8"
22	12-R	Downstation	0'-11 3/8"
23	5-L	Upstation	0'-8 1/4"
24	6-R	Upstation	0'-8 3/16"
25	11-R	Downstation	0'-11 3/8"
26	12-L	Downstation	0'-11 3/8"
27	5-R	Upstation	0'-8 1/4"
28	6-L	Upstation	0'-8 5/16"

**LEGEND:**

- 12-0.6"  $\phi$  Strand Tendon
- ① External Draped Tendon No.
- ▶ Stressing End
- └ Dead End
- D4-C Path  
Deviator No.
- D: Bottom Slab Deviator  
P: Pier Deviator  
A: Abutment Anchorage

**BILL OF MATERIAL**

Item	Unit	Stage 1 S.B.	Stage 2 S.B.	Total Quantity
Furnishing and Installing Post-Tensioning System	L. Sum	0.5	0.5	1.0

**NOTES:**

All external tendons shall be 12-0.6"  $\phi$  strands.  
 Tendon paths near west web are shown in Tendon Schedule. Tendon paths near east web are opposite hand, indicated as A', B', etc.  
 The total estimated quantity of post-tensioning steel is 182,900 lbs. This quantity is provided for information only.

**TENDON SCHEDULE**

TENDON NO (Per Web)	1	2	3	4	5	6	7	8	9	10	11	12
JACKING FORCE (kips)	569.5	569.5	569.5	569.5	569.5	569.5	562.5	569.5	569.5	569.5	569.5	569.5
LENGTH*	182'-4"	182'-4"	432'-7"	432'-9"	771'-8"	773'-0"	267'-10"	268'-6"	432'-7"	432'-9"	182'-4"	182'-4"
TENDON STARTS AT	S. Abut.	S. Abut.	S. Abut.	S. Abut.	Pier 1	Pier 1	Pier 2	Pier 2	Pier 3	Pier 3	Pier 4	Pier 4
TENDON ENDS AT	Pier 1	Pier 1	Pier 2	Pier 2	Pier 4	Pier 4	Pier 3	Pier 3	N. Abut.	N. Abut.	N. Abut.	N. Abut.
TENDON RUNS THROUGH	A1-A	A1-B	A1-C	A1-D	P1-A	P1-B	P2-A	P2-B	P3-D	P3-F	P4-D	P4-F
	D1-A	D1-C	D1-B	D1-D	D4-A	D4-C	D9-B	D9-D	D13-B	D13-D	D16-A	D16-C
	D2-A	D2-C	D2-B	D2-D	D5-A	D5-C	D10-B	D10-D	D14-B	D14-D	D17-A	D17-C
	D3-A	D3-C	P1-C	P1-E	D6-A	D6-C	P3-A	P3-B	P4-C	P4-E	D18-A	D18-C
	P1-D	P1-F	D5-B	D5-D	D7-A	D7-C			D17-B	D17-D	A2-A	A2-B
			D6-B	D6-D	P2-C	P2-E			D18-B	D18-D		
			P2-D	P2-F	D8-A	D8-C			A2-C	A2-D		
					D9-A	D9-C						
					D10-A	D10-C						
					D11-A	D11-C						
					P3-C	P3-E						
					D12-A	D12-C						
					D13-A	D13-C						
					D14-A	D14-C						
					D15-A	D15-C						
					P4-A	P4-B						

\* Values are calculated from face of anchorage to face of anchorage.

\*\* L = West Web (left looking upstation)  
 R = East Web (right looking upstation)

\*\*\* Elongations shown are 80% of calculated elongation (prior to anchor set). Elongation is calculated from face of anchorage to face of anchorage. See Special Provisions for details of post-tensioning operations.

Filename: p:\646265-Kishwaukee-mr-f.cadd\final\sheet\stpt\01s.sht

Designed by: WEE  
 Checked by: DL  
 Drafted by: HH  
 Checked by: DL

REVISION	DATE	DESCRIPTION
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
POST-TENSIONING LAYOUT AND SCHEDULES		
I-39 (FAI 39) OVER KISHWAUKEE RIVER SECTION 201-1BR WINNEBAGO COUNTY STATION 2425+00 STRUCTURE NOS. 101-0133 (S.B.) & 101-0134 (N.B.)		
PARSONS		CHICAGO, ILLINOIS
DRAWING NO. 14	SCALE N.T.S.	DATE FEB 2007
		SHEET NO. S-3