

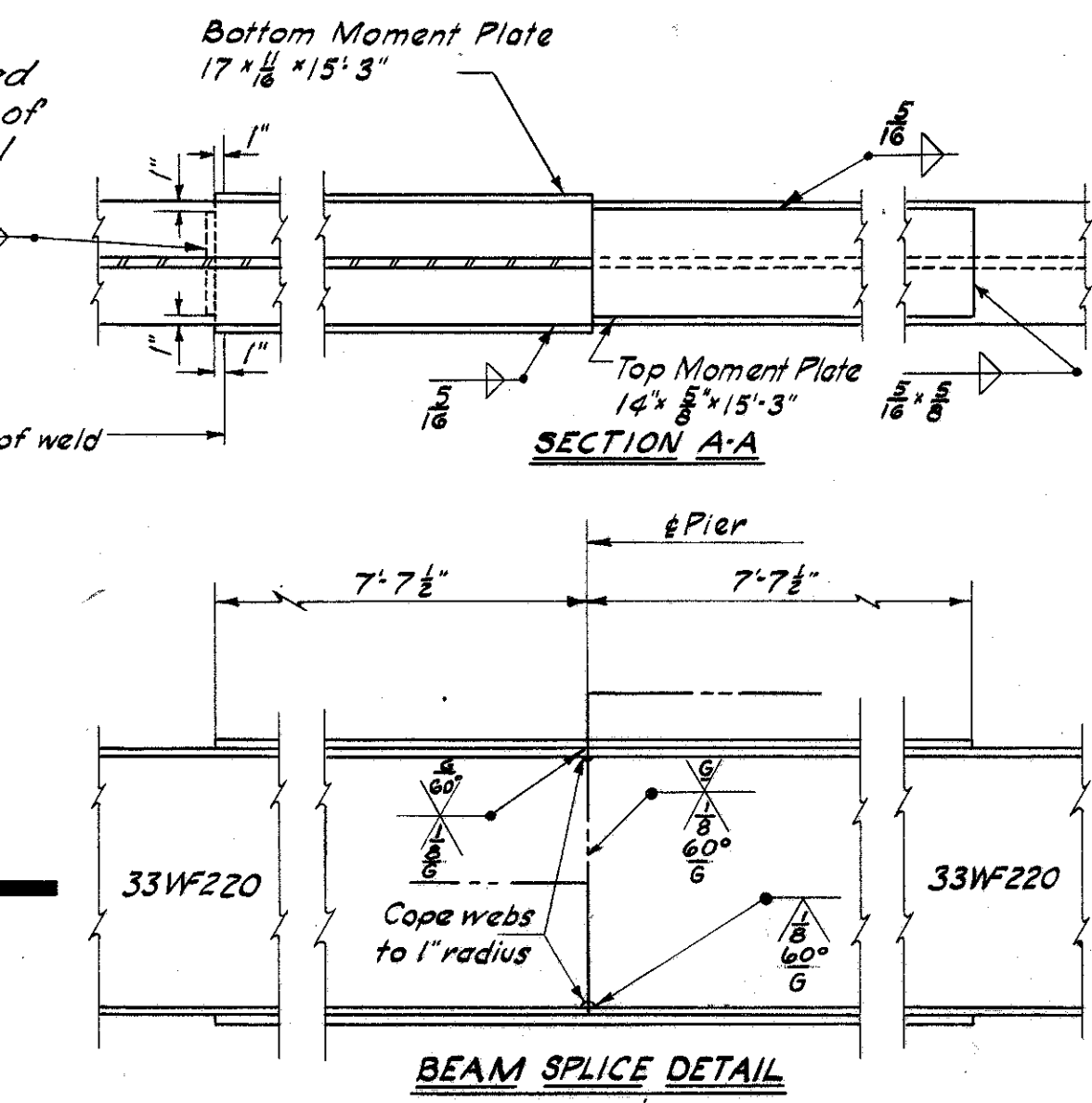
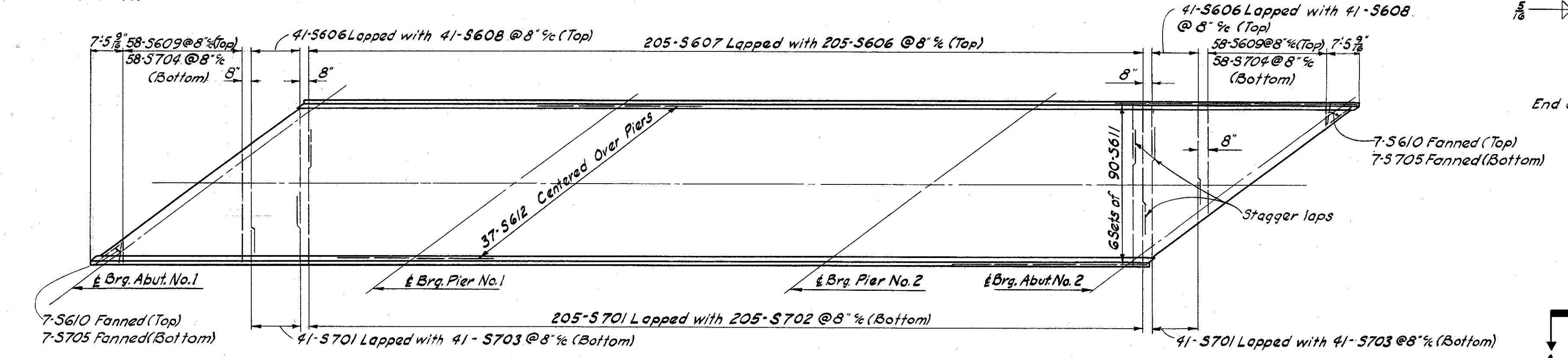
Deflections are computed at E Beams

LOCATION	DEAD LOAD DEFLECTION			
	Span 1 1/3	Span 2	Span 1 1/3	Span 2
Due to weight of steel	1/8"	3/8"	1/8"	3/8"
Due to remaining dead load	5/8"	3/8"	5/8"	3/8"
Total dead load deflection	7/8"	1/2"	7/8"	1/2"

NOTE: No camber is required, but all beams will be fabricated with any natural camber or bowed side up.

DECK PLACING PROCEDURE: In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously-placed deck concrete, the sequence of pours shall be upgrade, starting at the lowest and (or ends) on an inclined grade or vertical curve cor at an intermediate low point for a sagged vertical curve.

\* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or configuration required to place it parallel to the finished grade.



- Refer to Standard Drawing CSB-2-56, Sheet 2 of 6 for details of end dam.
- Refer to Standard Drawing CSB-2-56, Sheet 3 of 6 for gutter, scupper, and curb plate details.
- Refer to Standard Drawing RB-1-55 for details of Rockers and Bolsters.
- Concrete and reinforcing steel above parapet construction joints included with railing for payment.
- Joints in End Dam: A welded butt joint in the dam at the crown line of roadway, will be required for that portion of the end dam attached to the Superstructure. The portion attached to the backwall shall be placed in segments which shall be closely butted, with one of the joints at the apex of the crown, but shall not be welded.
- Concrete shall be class "C".

- BEAM SPLICE WELDING PROCEDURE
- Raise the abutment ends of the beams 2 1/2".
  - Butt-weld the beam flanges and web, using the following sequence: make two passes on each flange, then two on the web; repeat using one pass at each location, until welds are completed.
  - Weld the bottom and top moment plates.
  - Lower the beam ends to final position.

MICHAEL BAKER JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

**SUPERSTRUCTURE**

NORTH BOUND  
BRIDGE NO. LAK-1-0426  
OVER STATE ROUTE NO. 174

LAKE COUNTY N.B. STA. 232+41.54 TO STA. 234+57.10

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
D.E.B.	r.b.m.	r.b.m.	G.S.W.	W.R.B. 4-58	