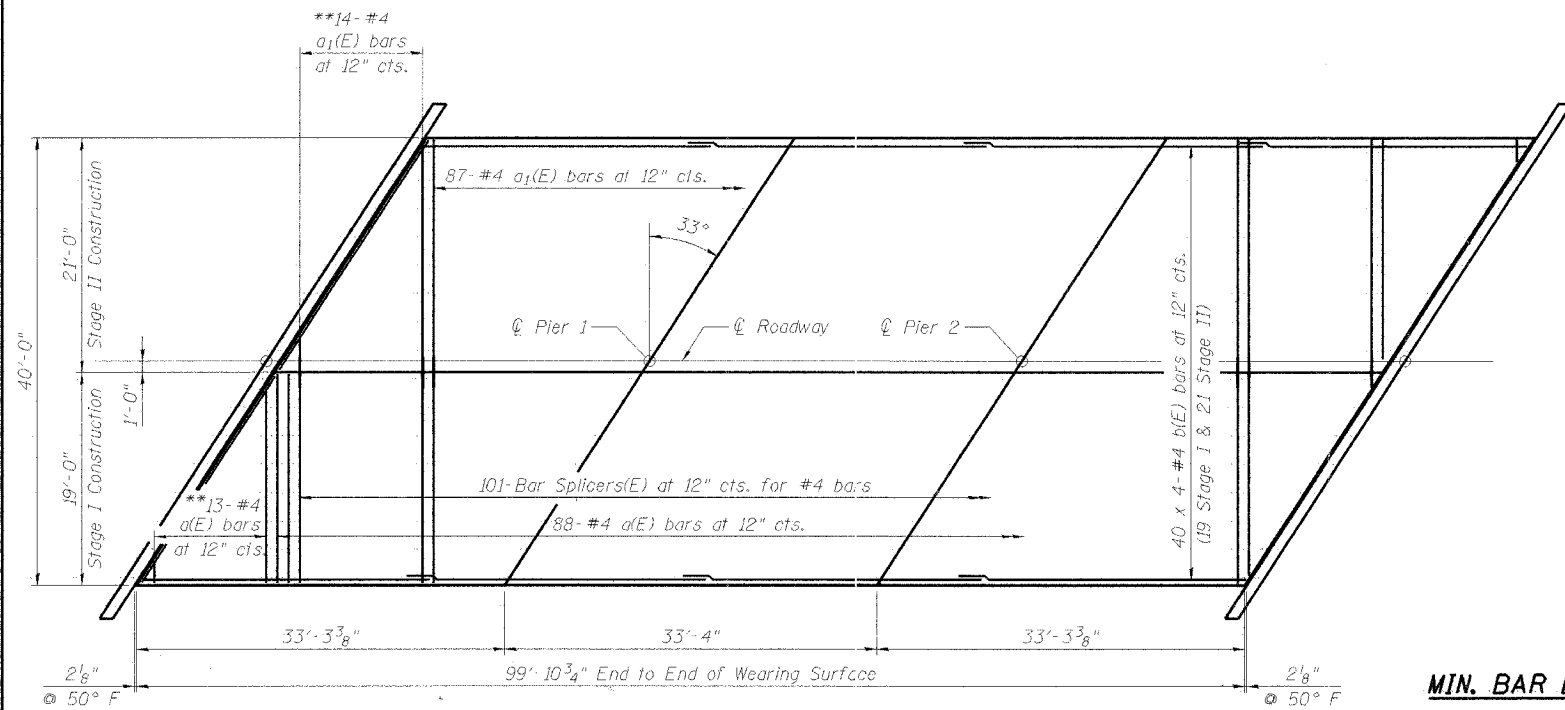


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 840	139 BR-1	KANKAKEE	69	21	13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

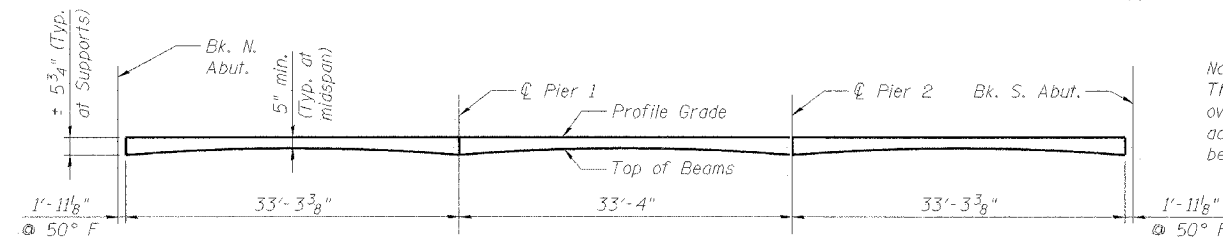
Contract #66543



**REINFORCED CONCRETE WEARING SURFACE PLAN**

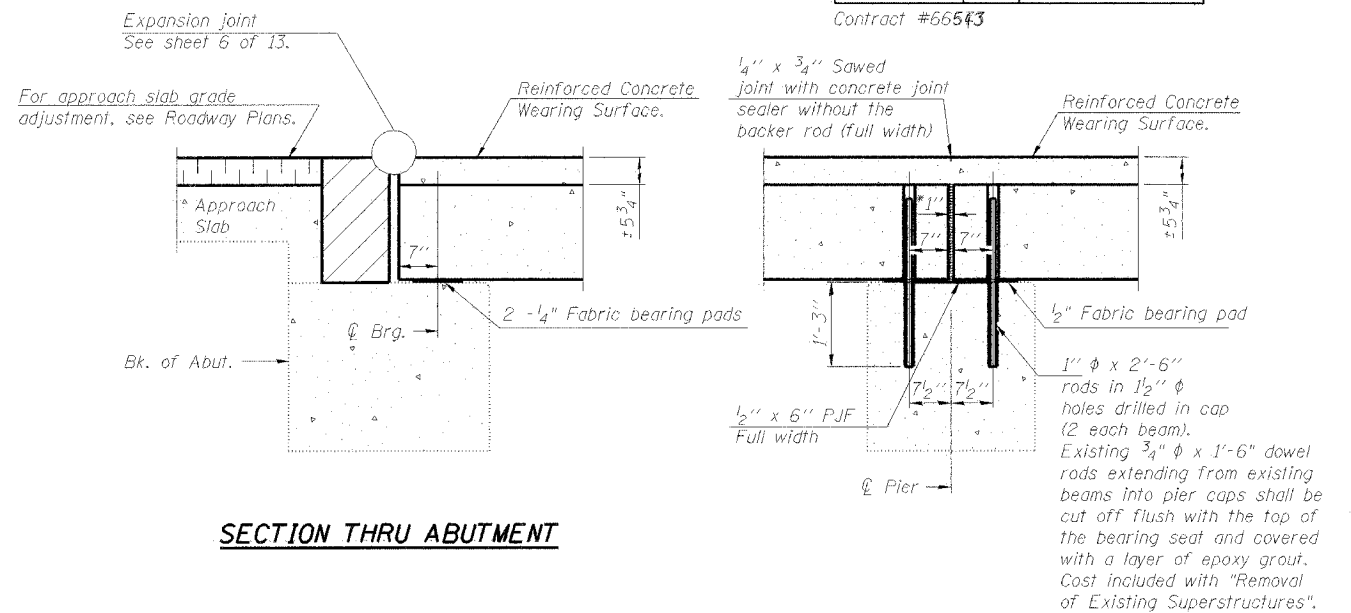
**MIN. BAR LAP**  
#4 bar = 1'-3"

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



**REINFORCED CONCRETE WEARING SURFACE PROFILE**

Note:  
The thickness of the concrete overlay varies as required to adjust for the profile grade and beam camber.

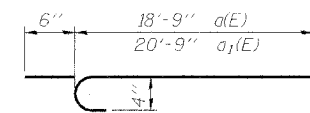


**SECTION THRU ABUTMENT**

**SECTION THRU FIXED PIER**

Notes:  
All horizontal dimensions are at right angles to the beam. Hatched area to be poured after concrete wearing surface is in place. See sheet 7 of 13 for bearing pad details. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus, 40 x 4 - #4 etc. indicates 40 lines of bars with 4 lengths per line.

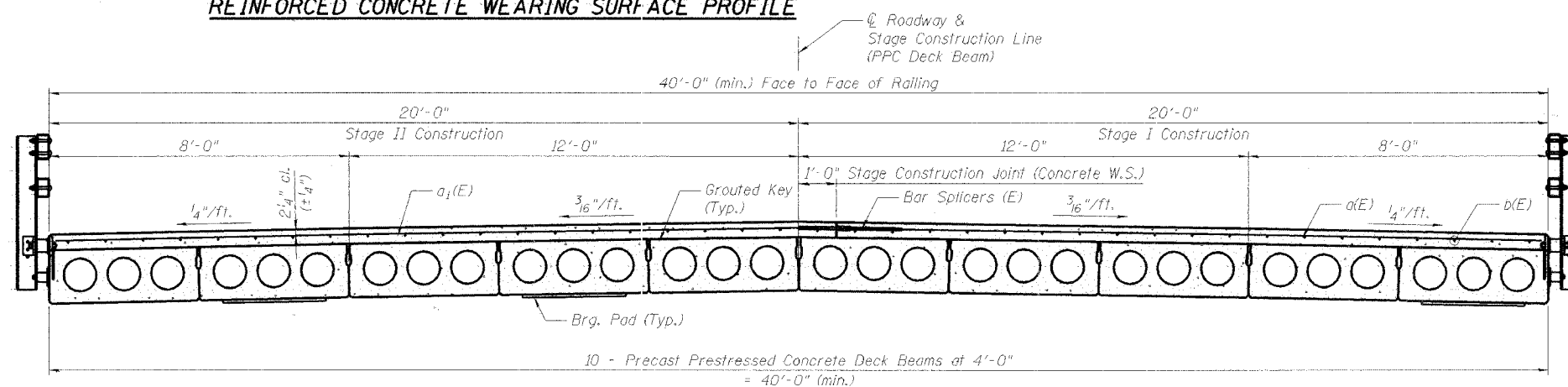
\* 1" jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



**BARS a(E) & a<sub>1</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	101	#4	19'-3"	U
a <sub>1</sub> (E)	101	#4	21'-3"	U
b(E)	160	#4	25'-11"	—
Concrete Wearing Surface, 5"		Sq. Yd.	444	
Reinforcement Bars, Epoxy Coated		Lb.	5510	



**CROSS SECTION**  
(Looking South)

DESIGNED	S.D.S.
CHECKED	C.W.C.
DRAWN	L.M.G./D.L.H.
CHECKED	S.D.S.

**WHKS & CO.**  
ENGINEERS PLANNERS LAND SURVEYORS  
MASON CITY, IA EAST DUBUQUE, IA AMES, IA SPRINGFIELD, IL ROCHESTER, MN

**SUPERSTRUCTURE DETAILS**  
**US ROUTE 45/52 OVER MINNIE CREEK**  
**F.A.P. 840 SEC. 139 BR-1**  
**KANKAKEE COUNTY**  
**STATION 196+30.00**  
**STRUCTURE NO. 046-0070**