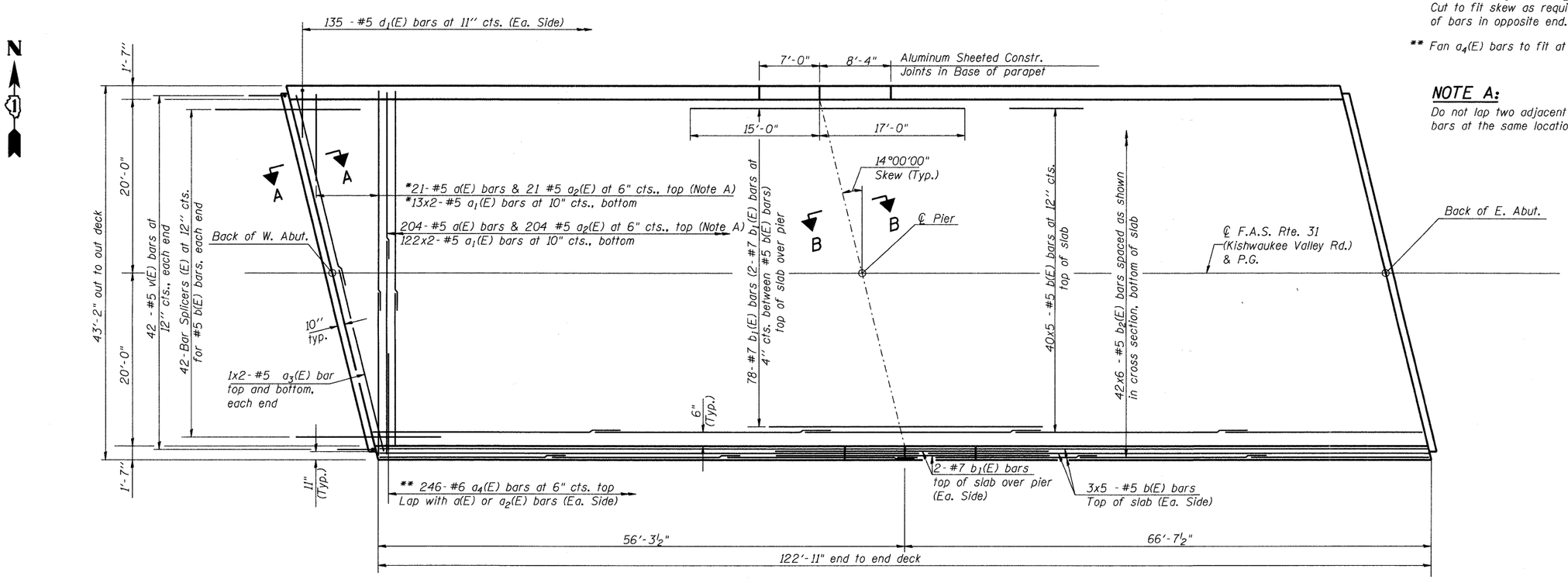
* Order a(E), a_1(E) and a_2(E) bars full length. Cut to fit skew as required and use remainder of bars in opposite end.

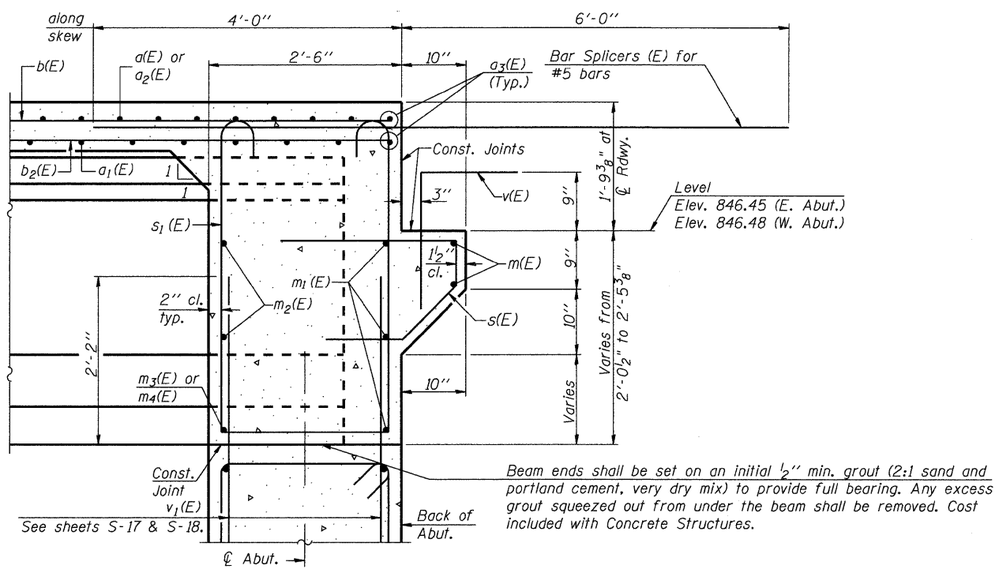
** Fan a_4(E) bars to fit at corners.

NOTE A:

Do not lap two adjacent a(E) and a_2(E) bars at the same location.



PLAN



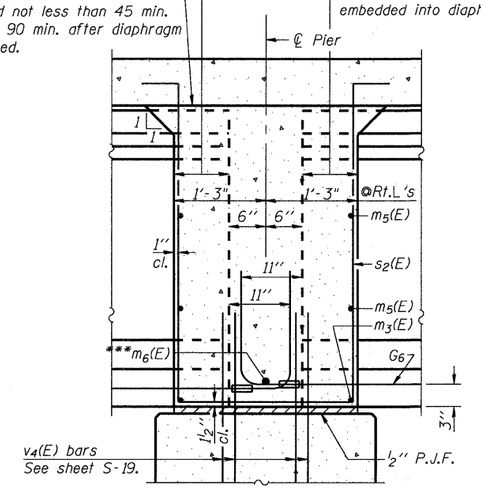
Beam ends shall be set on an initial ½'' min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

SECTION A-A

Dimensions at right angles to abutment, except as shown.

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

Roofing felt shall be bonded to side of beam embedded into diaphragm.



SECTION B-B

Dimensions along ℄ of beam, except as shown.

*** Tightly fasten the #8 bars together with No. 9 wire ties.

NOTES:

See Sheets S-9 for superstructure details.

Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

See Sheet S-10 for parapet reinforcement and Bill of Material.

MIN. BAR LAP

#5 bar = 2'-2"

Sheet No. S-8 of 23

AECOM	USER NAME = dabezicd PLOT SCALE = 0:1 '':' / IN. PLOT DATE = 5/28/2009	DESIGNED - DD DRAWN - DD CHECKED - ATB DATE - 3/18/2009	REVISED - REVISED - REVISED - REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	SUPERSTRUCTURE DETAILS I STRUCTURE NO. 056-3177 SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	27
		CONTRACT NO. 63218		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FILE NAME = \\uschgl fc207\pc60095673\pc60095673\900.cad\901.drawings\sheet\structural\056-3177_60095673_S08_Superstructure_Details_1.sht