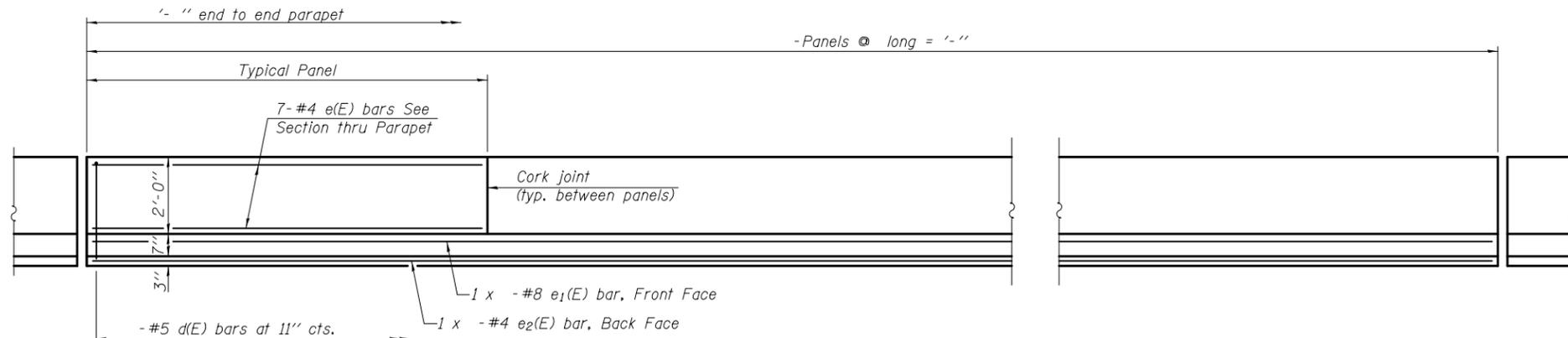


CELL / MODEL NAME	DESCRIPTION	DATE
SDE-BT6372-1	Superstructure Details; Expansion; Bulb T-Beam 63-72 inch beam depth; Single span	10/7/2016
SDE-BT6372-2	Superstructure Details; Expansion; Bulb T-Beam 63-72 inch beam depth; Multi-span	10/7/2016
SDE-I3642-1	Superstructure Details; Expansion; I-Beam 36-42 inch beam depth; Single span	10/7/2016
SDE-I3642-2	Superstructure Details; Expansion; I-Beam 36-42 inch beam depth; Multi-span	10/7/2016
SDE-I4854-1	Superstructure Details; Expansion; I-Beam 48-54 inch beam depth; Single span	10/7/2016
SDE-I4854-2	Superstructure Details; Expansion; I-Beam 48-54 inch beam depth; Multi-span	10/7/2016
SDE-IL27-1	Superstructure Details; Expansion; IL 27 inch beam depth; Single span	10/7/2016
SDE-IL27-2	Superstructure Details; Expansion; IL 27 inch beam depth; Multi-span	10/7/2016
SDE-IL36-1	Superstructure Details; Expansion; IL 36 inch beam depth; Single span	10/7/2016
SDE-IL36-2	Superstructure Details; Expansion; IL 36 inch beam depth; Multi-span	10/7/2016
SDE-IL36N-1	Superstructure Details; Expansion; IL 36 inch beam depth narrow top; Single span	10/7/2016
SDE-IL36N-2	Superstructure Details; Expansion; IL 36 inch beam depth narrow top; Multi-span	10/7/2016
SDE-IL4554-1	Superstructure Details; Expansion; IL 45-54 inch beam depth; Single span	10/7/2016
SDE-IL4554-2	Superstructure Details; Expansion; IL 4554 inch beam depth; Multi-span	10/7/2016
SDE-IL4554N-1	Superstructure Details; Expansion; IL 45-54 inch beam depth narrow top; Single span	10/7/2016
SDE-IL4554N-2	Superstructure Details; Expansion; IL 45-54 inch beam depth narrow top; Multi-span	10/7/2016

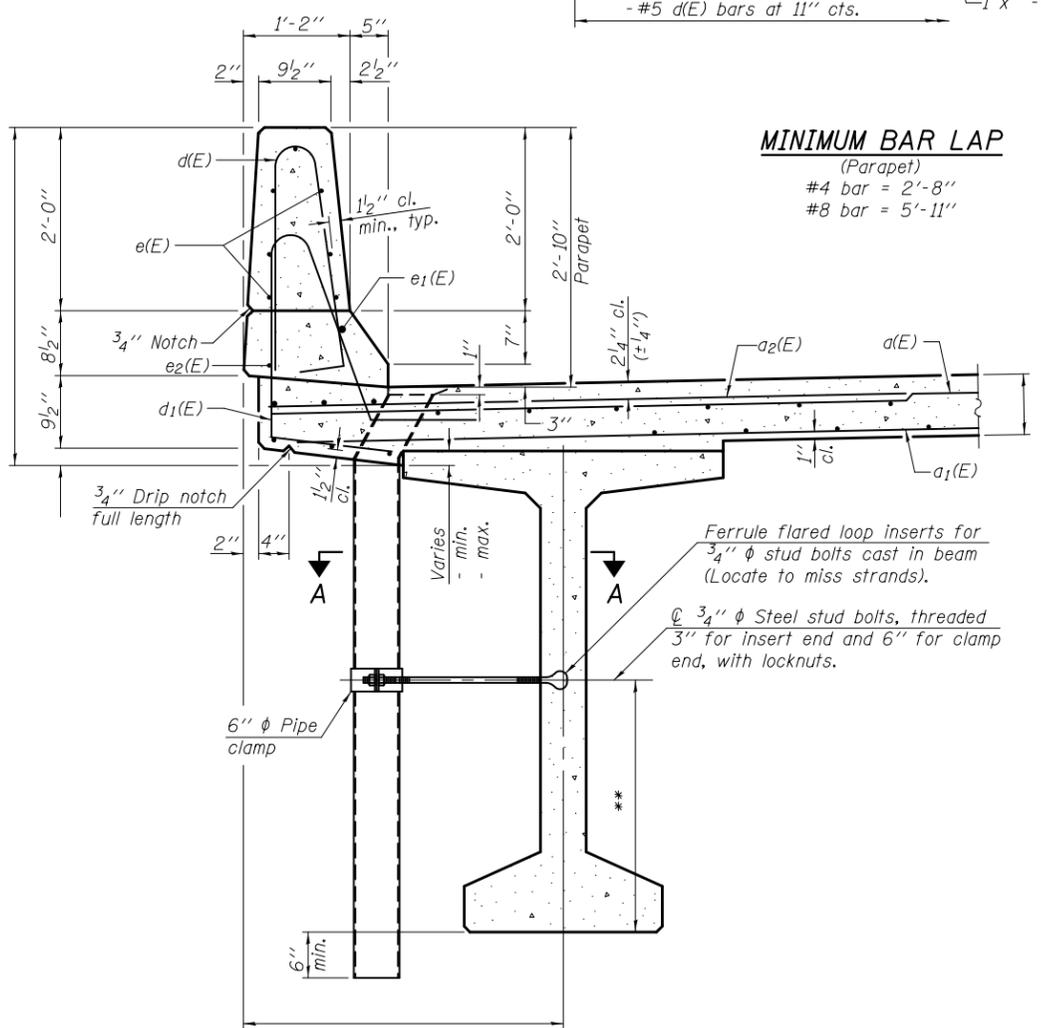
CELL / MODEL NAME	DESCRIPTION	DATE
SDE-IL6372-1	Superstructure Details; Expansion; IL 63-72 inch beam depth; Single span	10/7/2016
SDE-IL6372-2	Superstructure Details; Expansion; IL 63-72 inch beam depth; Multi-span	10/7/2016
SDE-IL6372N-1	Superstructure Details; Expansion; IL 63-72 inch beam depth narrow top; Single span	10/7/2016
SDE-IL6372N-2	Superstructure Details; Expansion; IL 63-72 inch beam depth narrow top; Multi-span	10/7/2016
SE-BT6372-1-0	Superstructure; Expansion; Bulb T-Beam 63-72; Single span; No skew	10/7/2016
SE-BT6372-1-L-Greater than 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Single span; Left skew; Greater than 30 degrees	10/7/2016
SE-BT6372-1-L-Less than or equal to 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Single span; Left skew; Less than or equal to 30 degrees	10/7/2016
SE-BT6372-1-R-Greater than 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Single span; Right skew > 30 degrees	10/7/2016
SE-BT6372-1-R-Less than or equal to 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Single span; Right skew; Less than or equal to 30 degrees	10/7/2016
SE-BT6372-2-0	Superstructure; Expansion; Bulb T-Beam 63-72; Multi-span; No skew	10/7/2016
SE-BT6372-2-L-Greater than 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Multi-span; Left skew > 30 degrees	10/7/2016
SE-BT6372-2-L-Less than or equal to 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Multi-span; Left skew; Less than or equal to 30 degrees	10/7/2016
SE-BT6372-2-R-Greater than 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Multi-span; Right skew > 30 degrees	10/7/2016
SE-BT6372-2-R-Less than or equal to 30 degrees	Superstructure; Expansion; Bulb T-Beam 63-72; Multi-span; Right skew; Less than or equal to 30 degrees	10/7/2016
SE-I3654-1-0	Superstructure; Expansion; I-Beam 36-54; Single span; No skew	10/7/2016
SE-I3654-1-L-Greater than 30 degrees	Superstructure; Expansion; I-Beam 36-54; Single span; Left Skew; Greater than 30 degrees	10/7/2016

CELL / MODEL NAME	DESCRIPTION	DATE
SE-I3654-1-L-Less than or equal to 30 degrees	Superstructure; Expansion; I-Beam 36-54; Single span; Left Skew; Less than or equal to 30 degrees	10/7/2016
SE-I3654-1-R-Greater than 30 degrees	Superstructure; Expansion; I-Beam 36-54; Single span; Right Skew; Greater than 30 degrees	10/7/2016
SE-I3654-1-R-Less than or equal to 30 degrees	Superstructure; Expansion; I-Beam 36-54; Single span; Right Skew; Less than or equal to 30 degrees	10/7/2016
SE-I3654-2-0	Superstructure; Expansion; I-Beam 36-54; Multi-span; No skew	10/7/2016
SE-I3654-2-L-Greater than 30 degrees	Superstructure; Expansion; I-Beam 36-54; Multi-span; Left skew; Greater than 30 degrees	10/7/2016
SE-I3654-2-L-Less than or equal to 30 degrees	Superstructure; Expansion; I-Beam 36-54; Multi-span; Left skew; Less than or equal to 30 degrees	10/7/2016
SE-I3654-2-R-Greater than 30 degrees	Superstructure; Expansion; I-Beam 36-54; Multi-span; Right skew; Greater than 30 degrees	10/7/2016
SE-I3654-2-R-Less than or equal to 30 degrees	Superstructure; Expansion; I-Beam 36-54; Multi-span; Right skew; Less than or equal to 30 degrees	10/7/2016
SE-IL2772N-1-0	Superstructure; Expansion; IL 27-72; Single span; No skew	10/7/2016
SE-IL2772N-1-L-Greater than 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Single span; Left Skew; Greater than 30 degrees	10/7/2016
SE-IL2772N-1-L-Less than or equal to 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Single span; Left Skew; Less than or equal to 30 degrees	10/7/2016
SE-IL2772N-1-R-Greater than 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Single span; Right Skew; Greater than 30 degrees	10/7/2016
SE-IL2772N-1-R-Less than or equal to 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Single span; Right Skew; Less than or equal to 30 degrees	10/7/2016
SE-IL2772N-2-0	Superstructure; Expansion; IL 27-72 narrow top; Multi-span; No skew	10/7/2016
SE-IL2772N-2-L-Greater than 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Multi-span; Left skew; Greater than 30 degrees	10/7/2016
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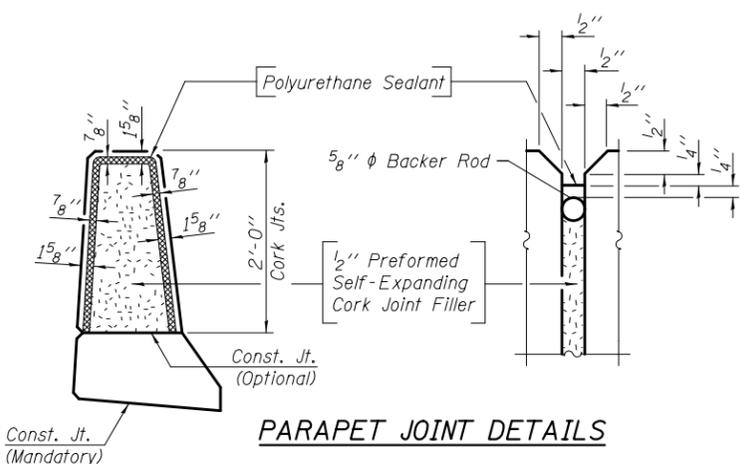
CELL / MODEL NAME	DESCRIPTION	DATE
SE-IL2772N-2-R-Greater than 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Multi-span; Right skew; Greater than 30 degrees	10/7/2016
SE-IL2772N-2-R-Less than or equal to 30 degrees	Superstructure; Expansion; IL 27-72 narrow top; Multi-span; Right skew; Less than or equal to 30 degrees	10/7/2016
SE-IL3672-1-0	Superstructure; Expansion; I-Beam 36-72; Single span; No skew	10/7/2016
SE-IL3672-1-L-Greater than 30 degrees	Superstructure; Expansion; IL 36-72; Single span; Left Skew; Greater than 30 degrees	10/7/2016
SE-IL3672-1-L-Less than or equal to 30 degrees	Superstructure; Expansion; IL 36-72; Single span; Left Skew; Less than or equal to 30 degrees	10/7/2016
SE-IL3672-1-R-Greater than 30 degrees	Superstructure; Expansion; IL 36-72; Single span; Right Skew; Greater than 30 degrees	10/7/2016
SE-IL3672-1-R-Less than or equal to 30 degrees	Superstructure; Expansion; IL 36-72; Single span; Right Skew; Less than or equal to 30 degrees	10/7/2016
SE-IL3672-2-0	Superstructure; Expansion; IL 36-72; Multi-span; No skew	10/7/2016
SE-IL3672-2-L-Greater than 30 degrees	Superstructure; Expansion; IL 36-72; Multi-span; Left Skew; Greater than 30 degrees	10/7/2016
SE-IL3672-2-L-Less than or equal to 30 degrees	Superstructure; Expansion; IL 36-72; Multi-span; Left Skew; Less than or equal to 30 degrees	10/7/2016
SE-IL3672-2-R-Greater than 30 degrees	Superstructure; Expansion; IL 36-72; Multi-span; Right Skew; Greater than 30 degrees	10/7/2016
SE-IL3672-2-R-Less than or equal to 30 degrees	Superstructure; Expansion; IL 36-72; Multi-span; Right Skew; Less than or equal to 30 degrees	10/7/2016



INSIDE ELEVATION OF PARAPET

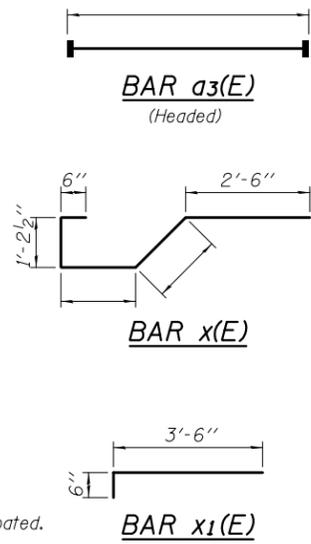


MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"



PARAPET JOINT DETAILS

Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



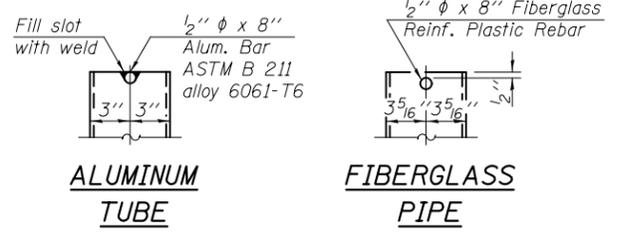
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

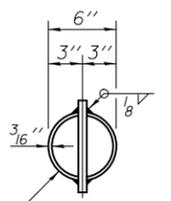
SECTION THRU PARAPET

**For insert locations See sheet of



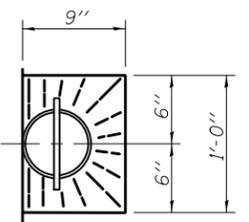
ALUMINUM TUBE

FIBERGLASS PIPE

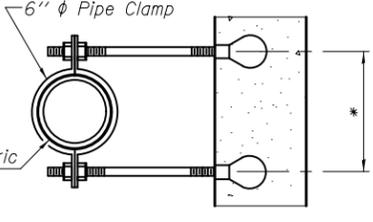


TOP PLAN

(Showing Aluminum Tube)

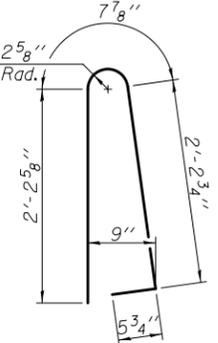


TOP PLAN

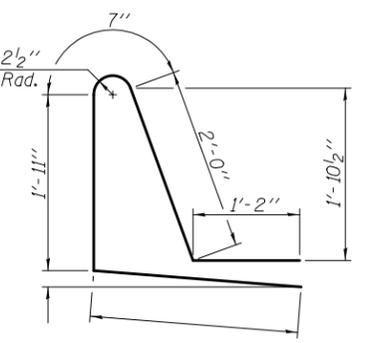


SECTION A-A

*Dimension as required by Pipe Clamp



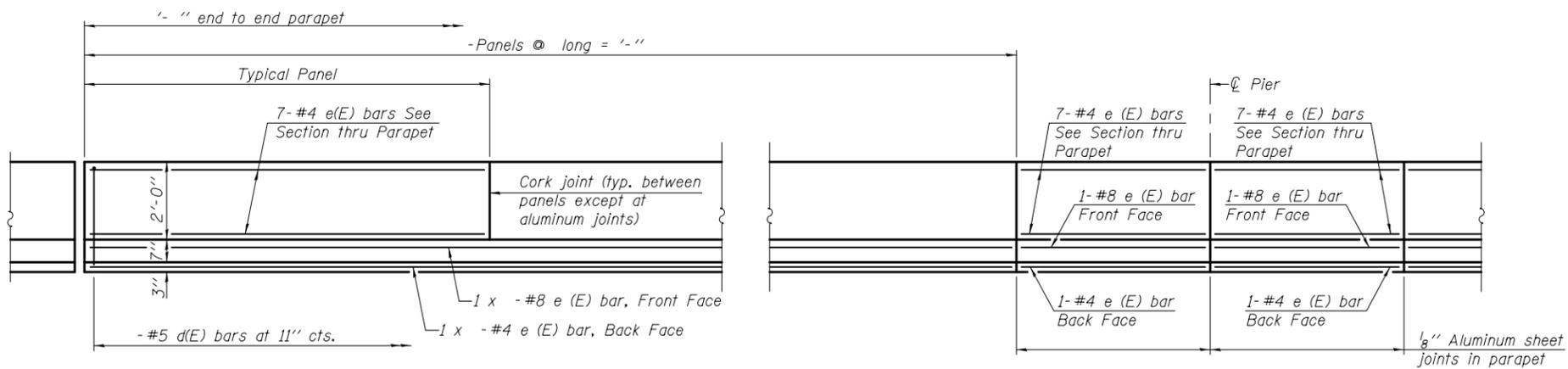
BAR d(E)



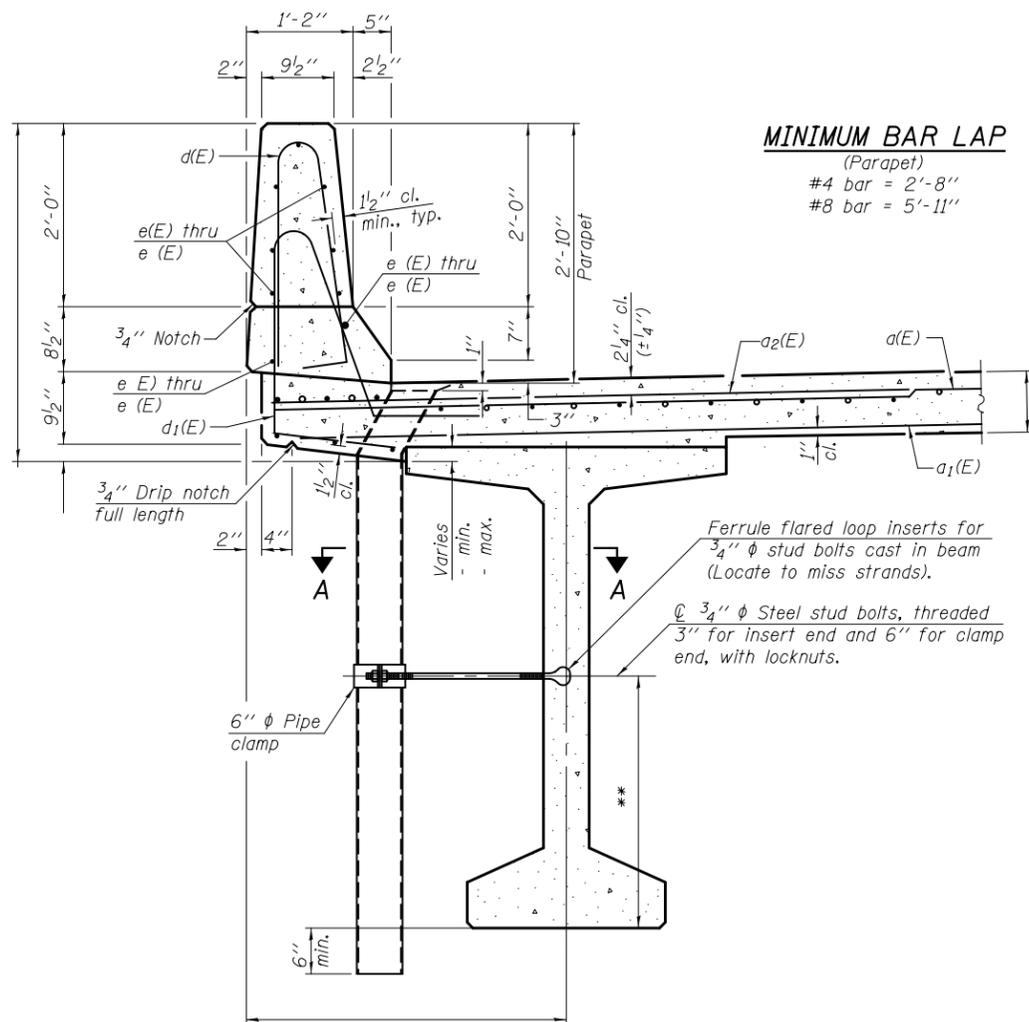
BAR d1(E)

SDE-BT6372-1 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISD -			CONTRACT NO.					
		PLOT SCALE =	REVISD -			ILLINOIS FED. AID PROJECT					
		PLOT DATE =	REVISD -								

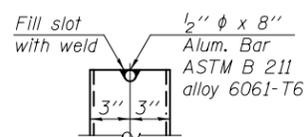


INSIDE ELEVATION OF PARAPET

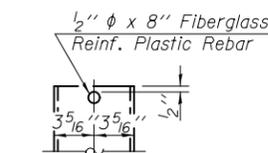


SECTION THRU PARAPET

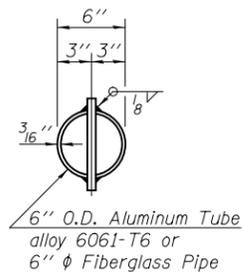
**For insert locations See sheet of



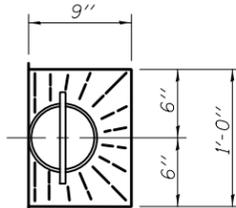
ALUMINUM TUBE



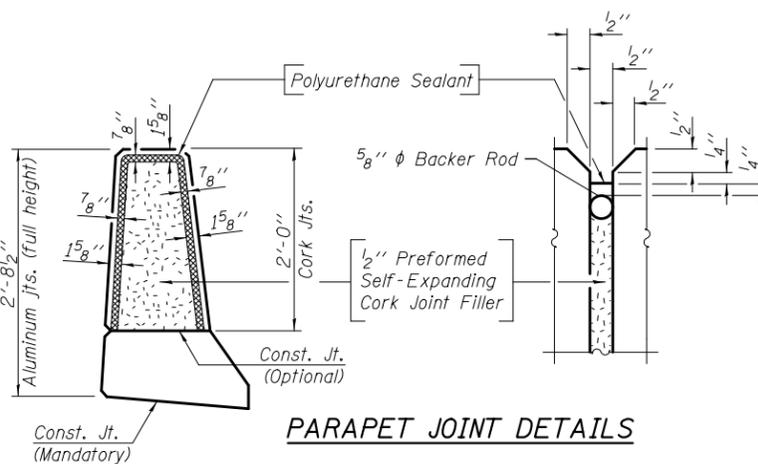
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)



TOP PLAN



PARAPET JOINT DETAILS

Notes:

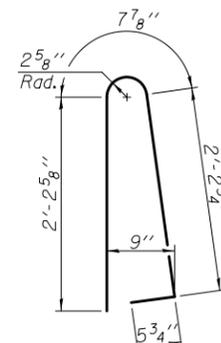
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

BAR a3(E)
(Headed)

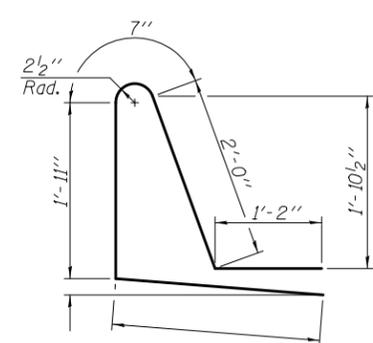
BAR x1(E)

BAR x(E)

BAR s20(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-BT6372-2

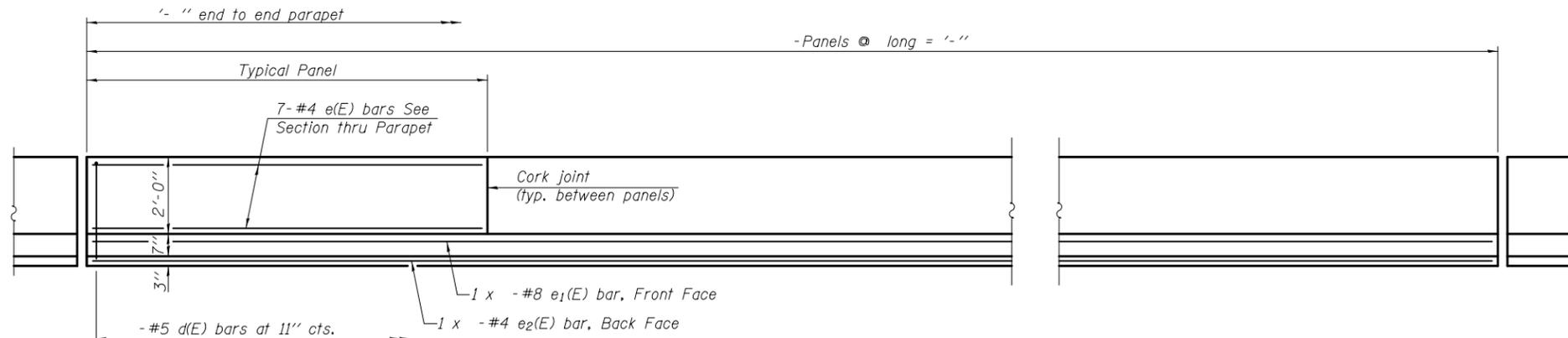
10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
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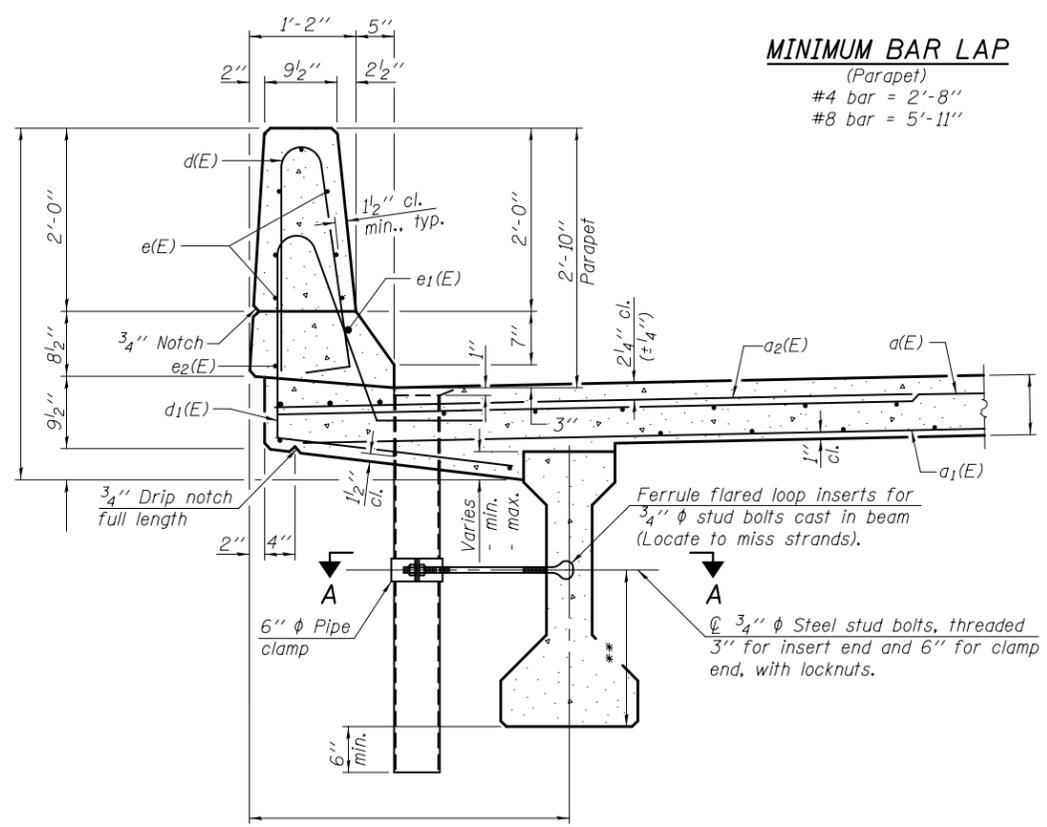
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

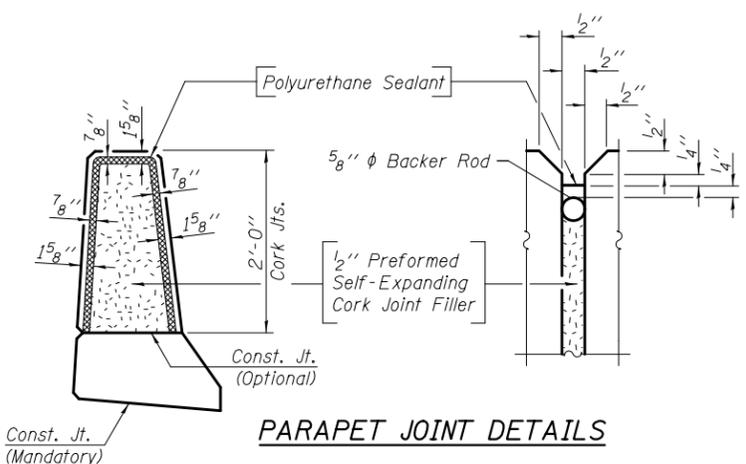


SECTION THRU PARAPET

**For insert locations See sheet of

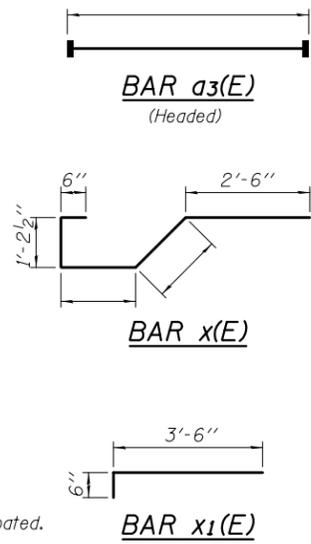
MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

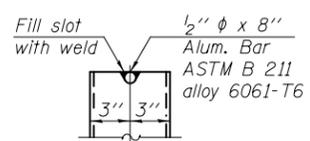
Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



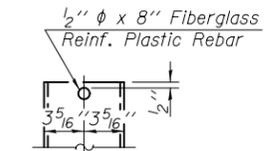
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

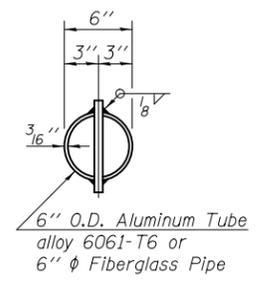
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



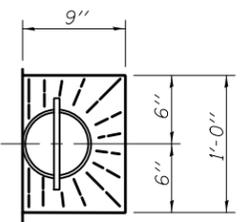
ALUMINUM TUBE



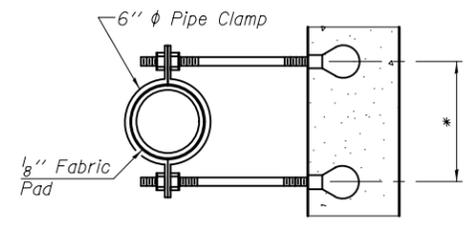
FIBERGLASS PIPE



TOP PLAN (Showing Aluminum Tube)

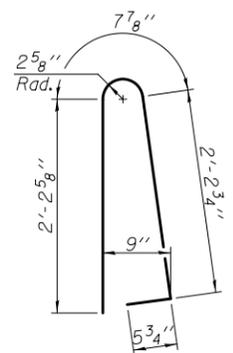


TOP PLAN

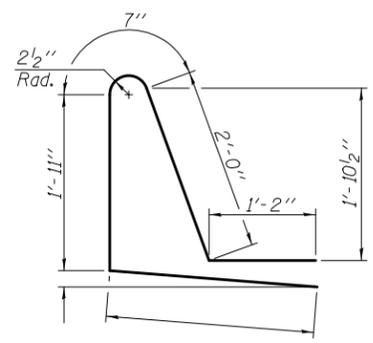


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-I3642-1

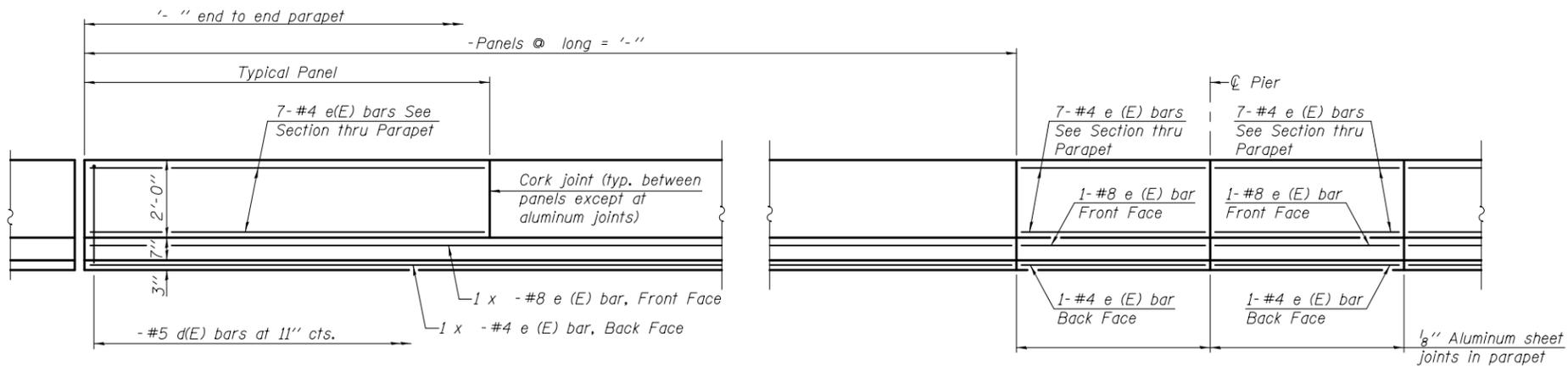
10-7-2016

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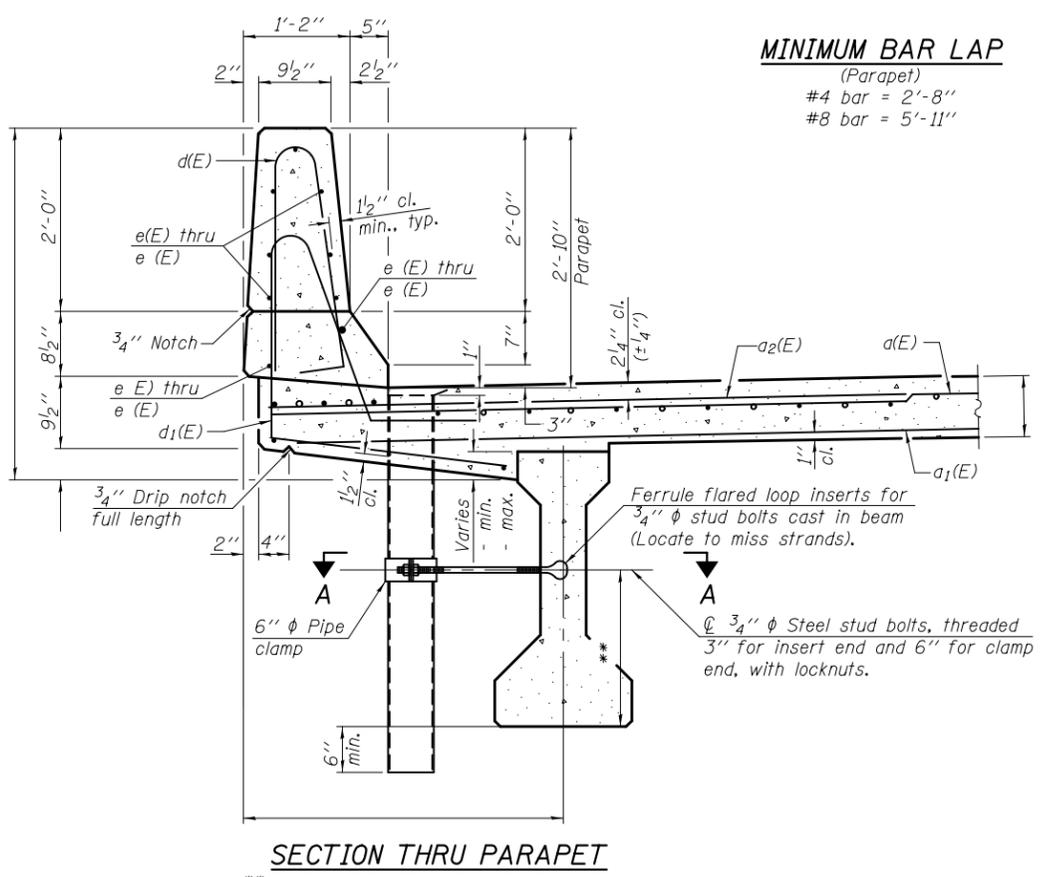
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



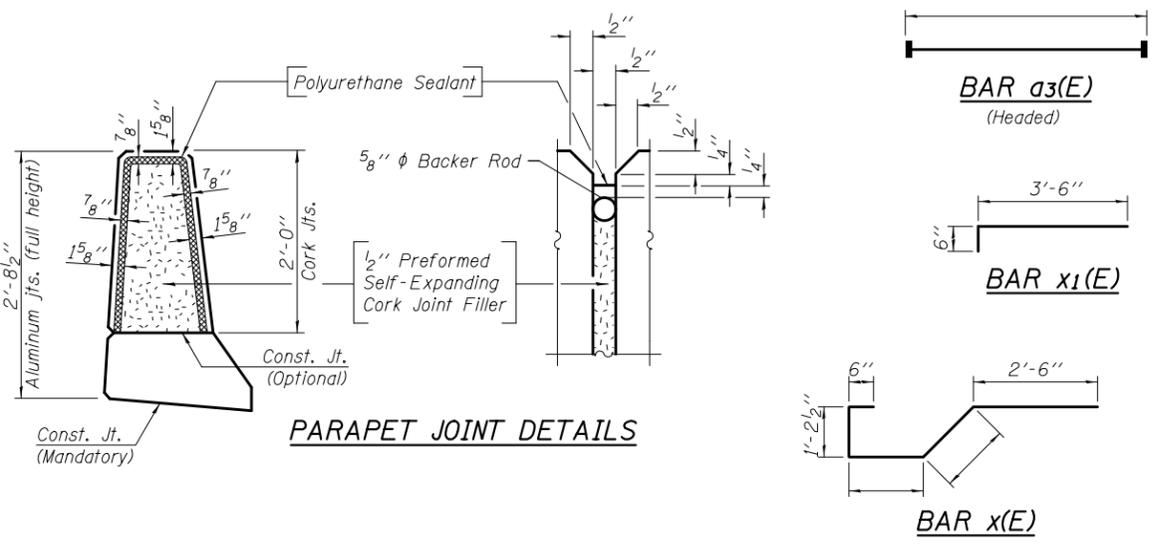
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

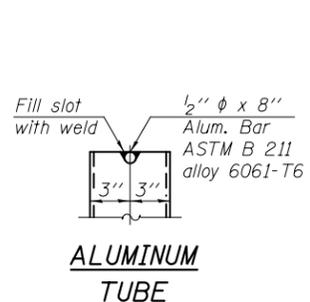
**For insert locations See sheet of

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"

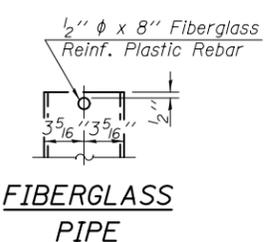


PARAPET JOINT DETAILS

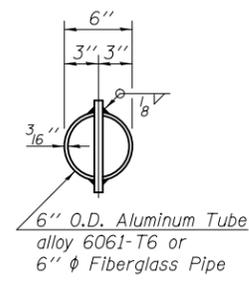
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The 1/8 inch Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8 inch backer rod.
The 1/2 inch Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



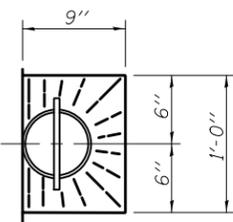
ALUMINUM TUBE



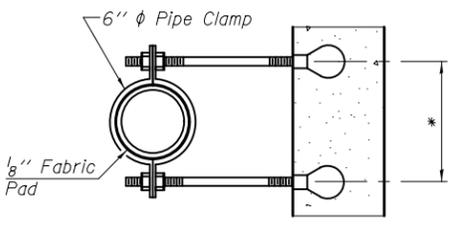
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

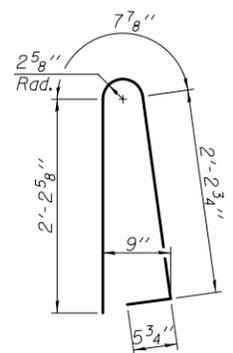


TOP PLAN

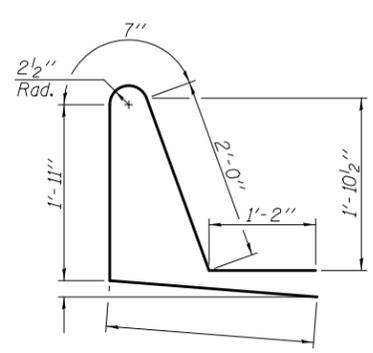


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

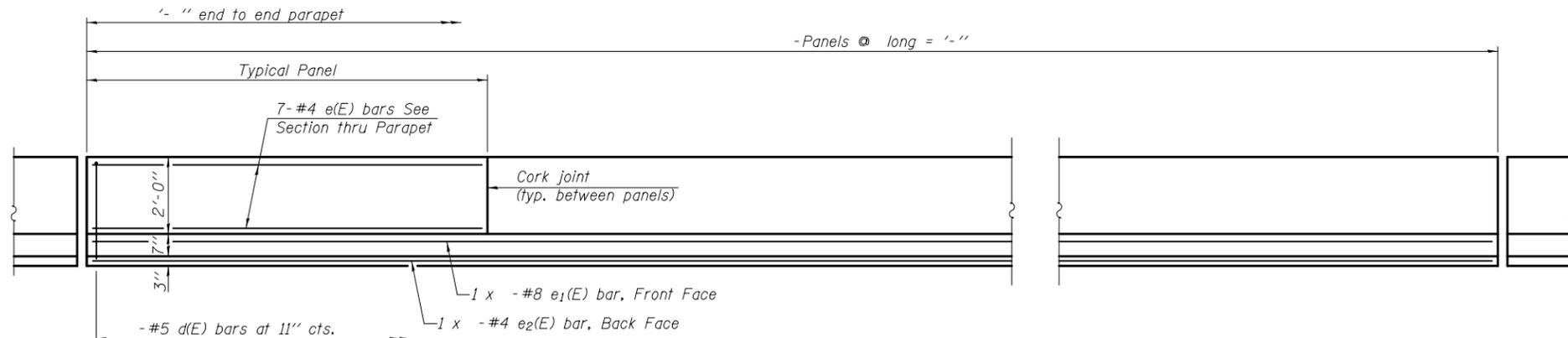
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

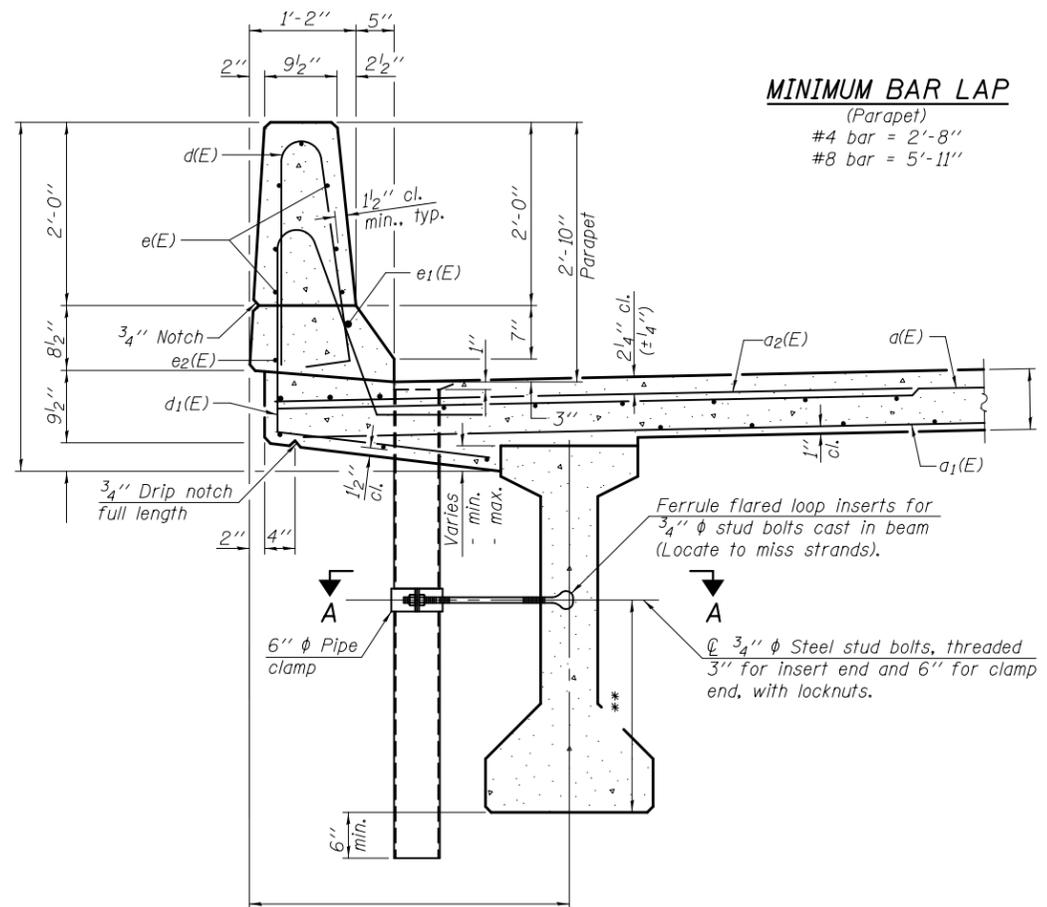
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-I3642-2 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
		CHECKED -	REVISD -								

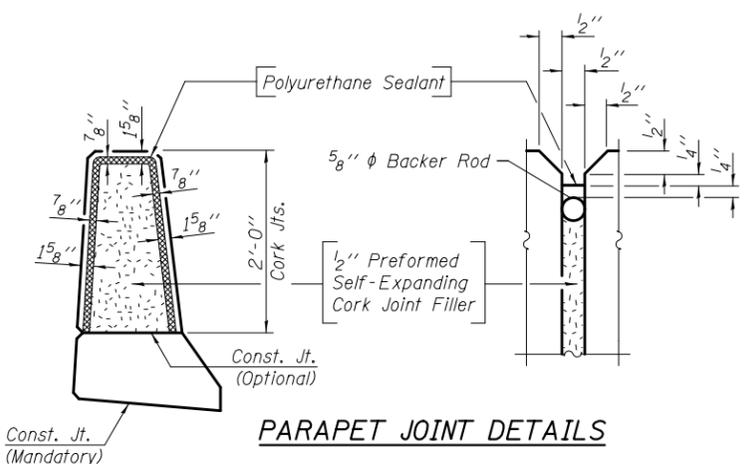


INSIDE ELEVATION OF PARAPET

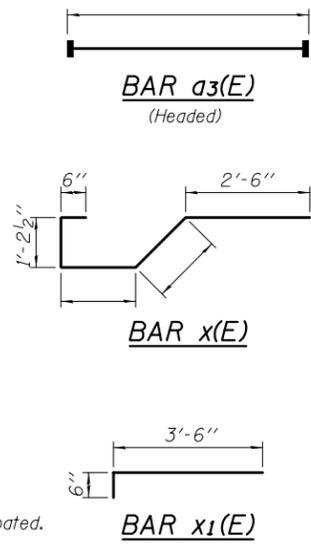


SECTION THRU PARAPET
**For insert locations See sheet of

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"



PARAPET JOINT DETAILS

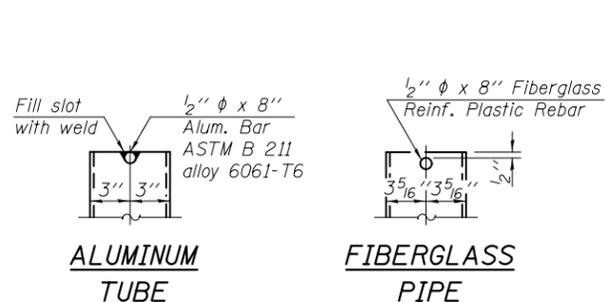


Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
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The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

SUPERSTRUCTURE BILL OF MATERIAL

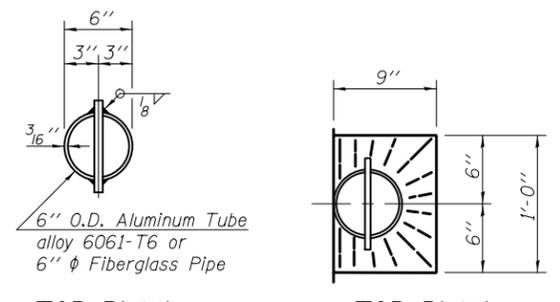
Bar	No.	Size	Length	Shape
a(E)		#5		—
a1(E)		#5		—
a2(E)		#6	6'-6"	—
a3(E)				—
a4(E)				—
a5(E)				—
b(E)		#5		—
b1(E)		#5		—
b2(E)				—
d(E)		#5	5'-7"	⌒
d1(E)		#5		⌒
e(E)		#4		—
e1(E)		#8		—
e2(E)		#4		—
x(E)		#5		⌒
x1(E)		#5	4'-0"	—
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

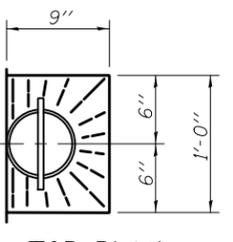


ALUMINUM TUBE

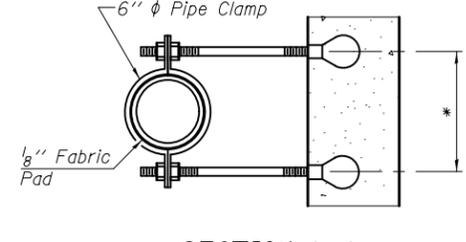
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

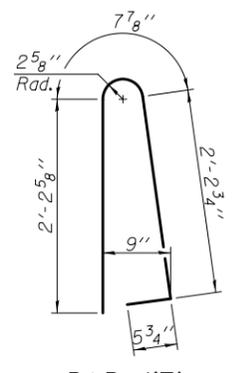


TOP PLAN

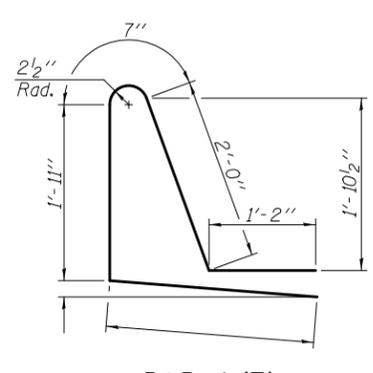


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-I4854-1

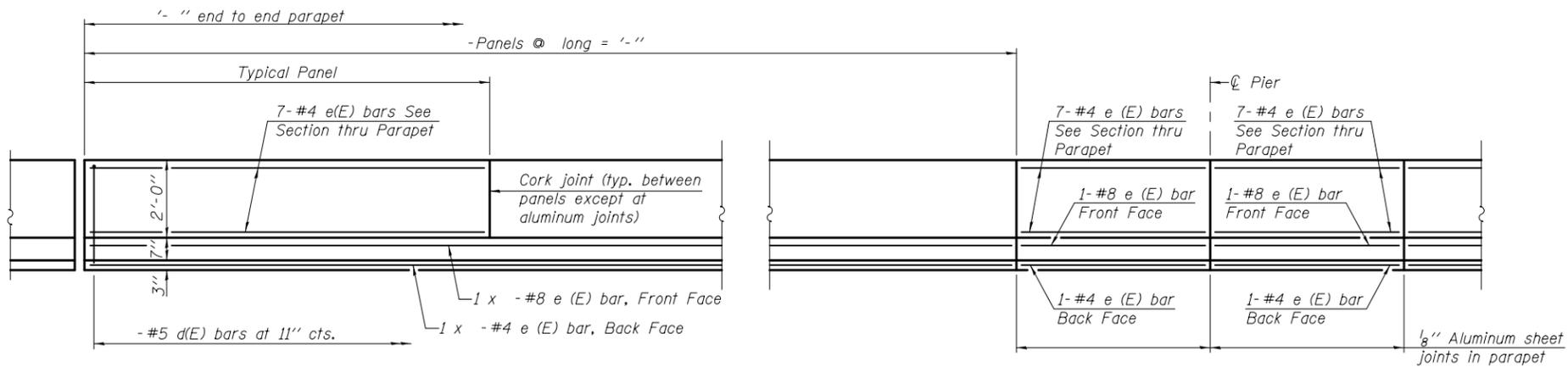
10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REvised -
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		CHECKED -	REvised -

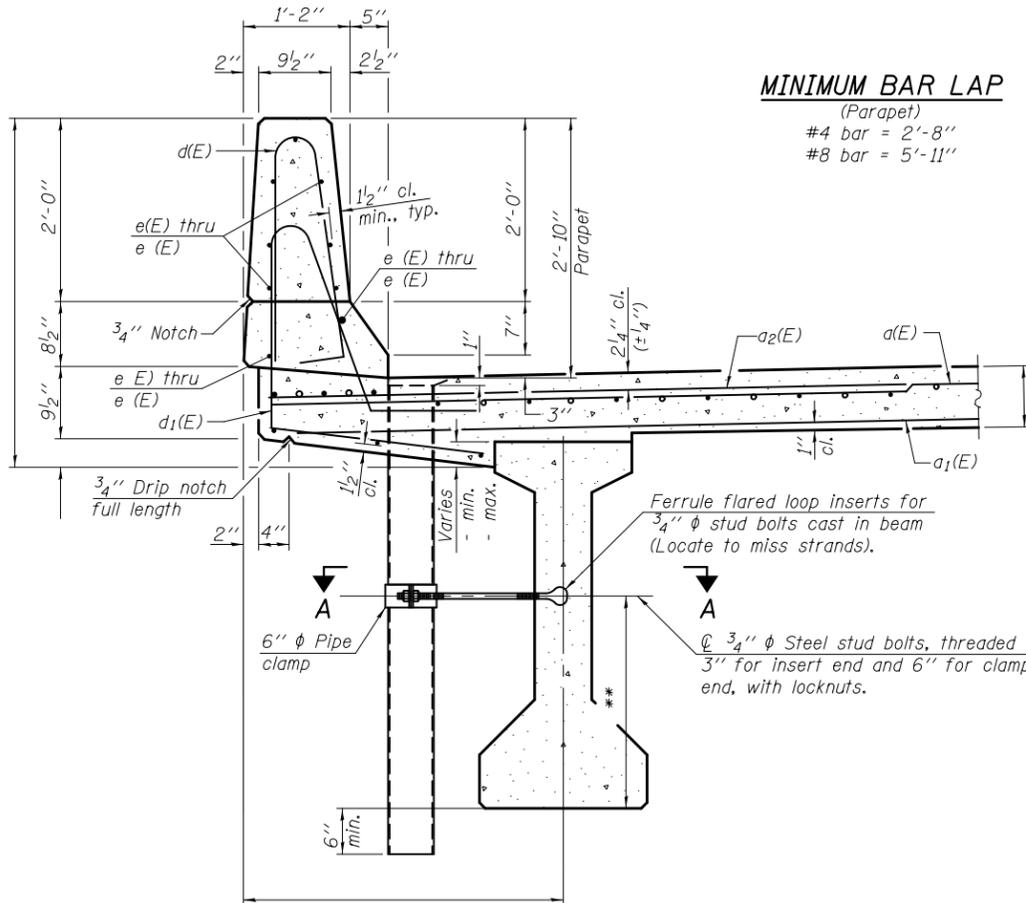
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

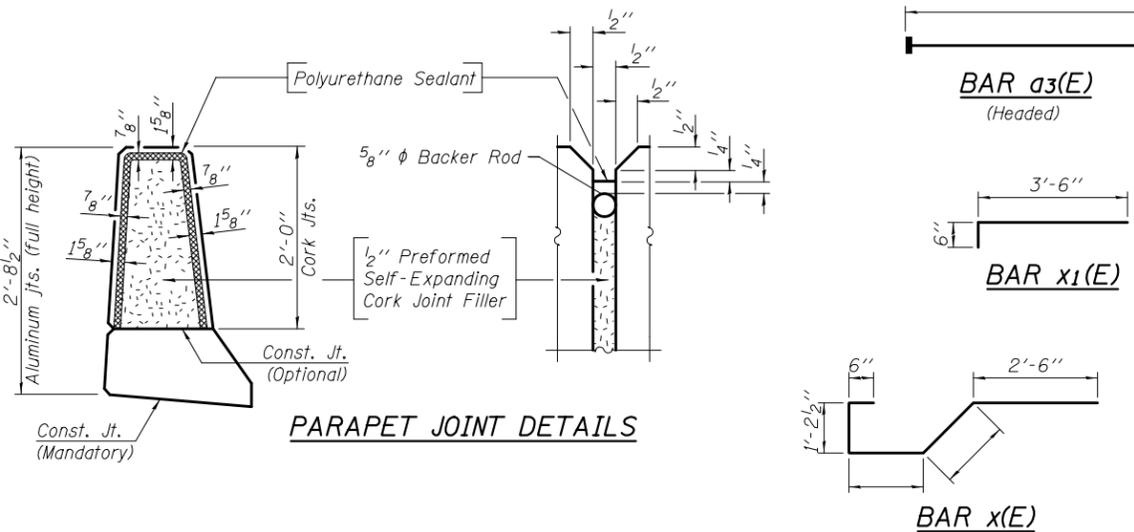


SECTION THRU PARAPET

**For insert locations See sheet of

MINIMUM BAR LAP

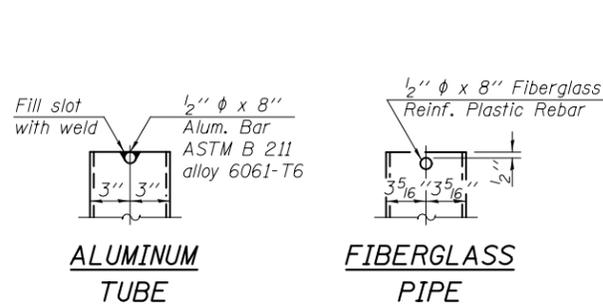
(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

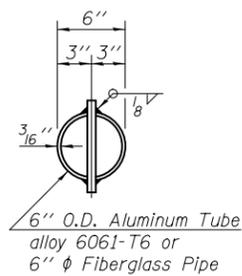
Notes:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
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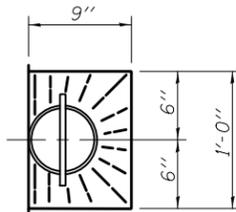
ALUMINUM TUBE

FIBERGLASS PIPE

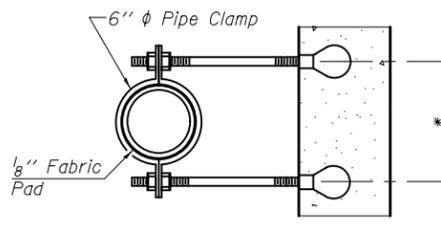


TOP PLAN

(Showing Aluminum Tube)

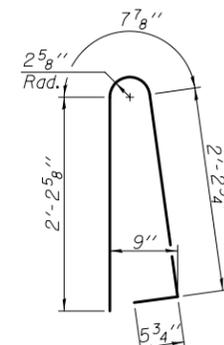


TOP PLAN

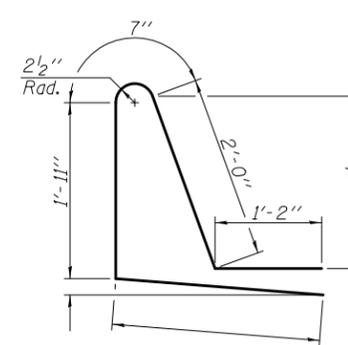


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-I4854-2

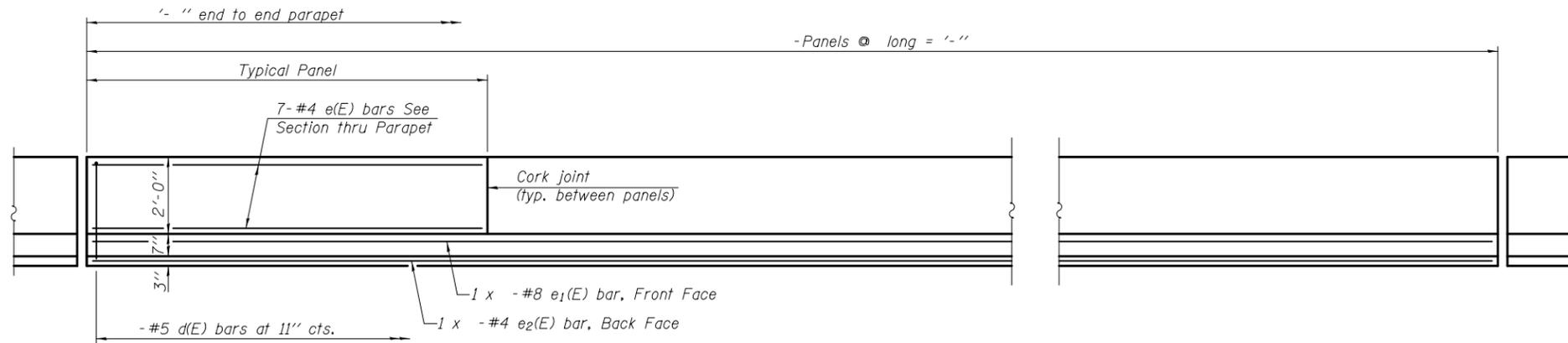
10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
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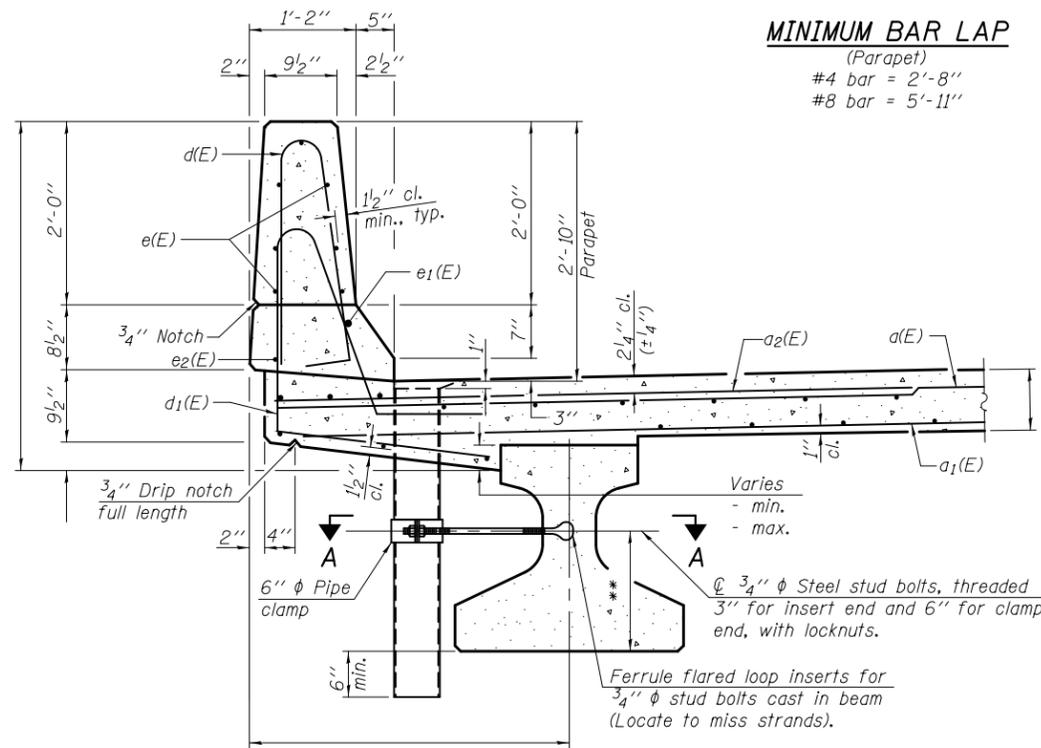
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

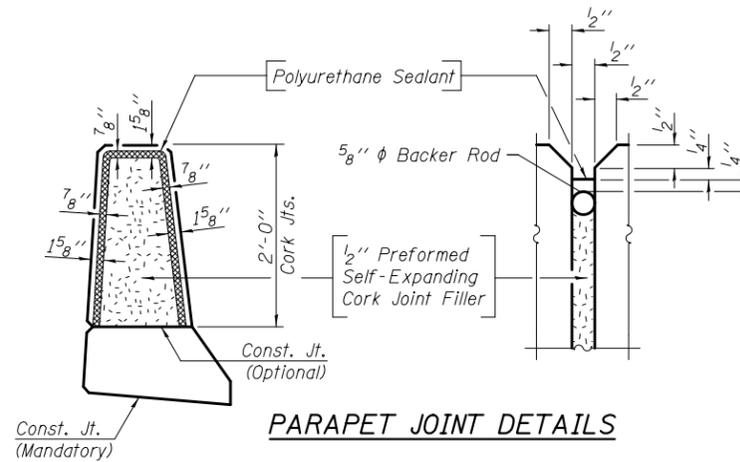


SECTION THRU PARAPET

**For insert locations See sheet of

MINIMUM BAR LAP

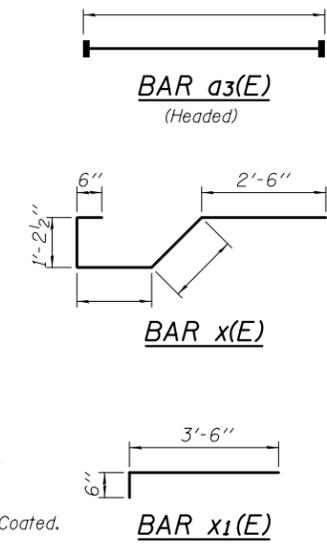
(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

Notes:

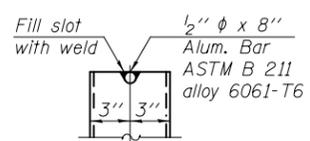
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
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 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



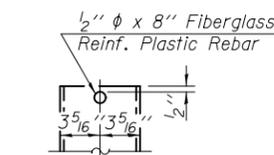
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

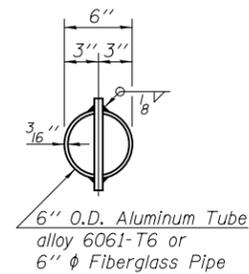
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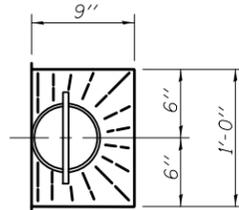
ALUMINUM TUBE



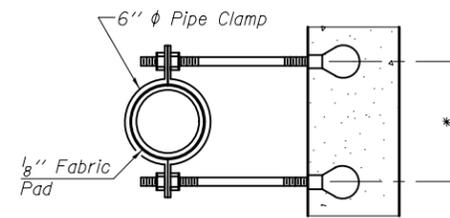
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

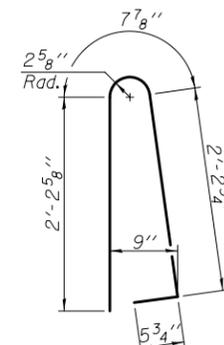


TOP PLAN

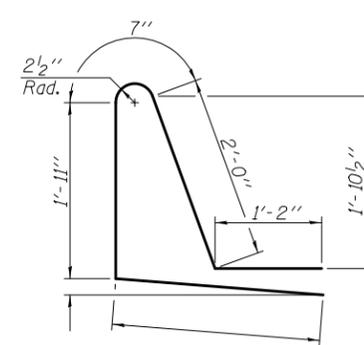


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-IL27-1

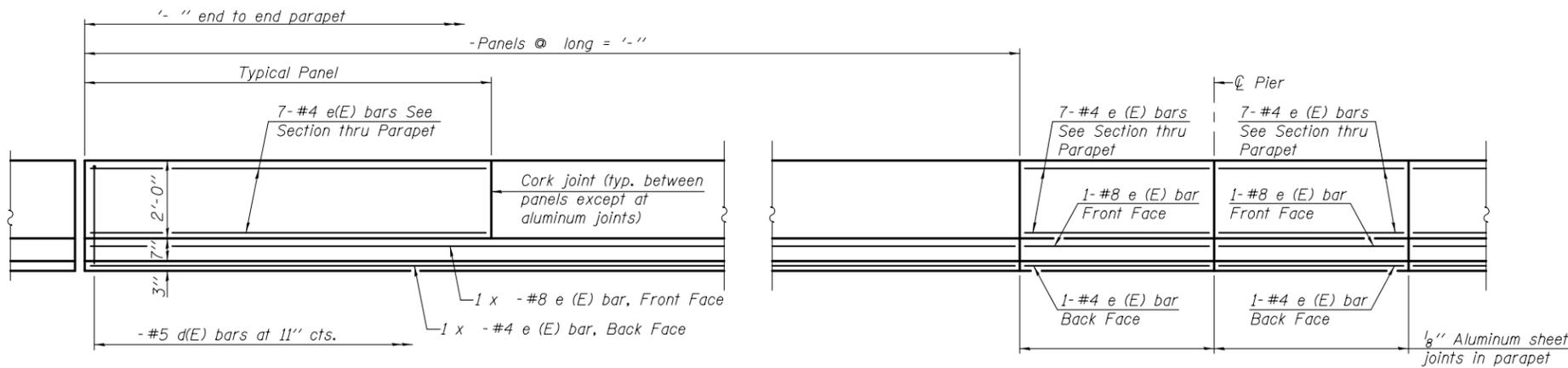
10-7-2016

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		CHECKED -	REvised -

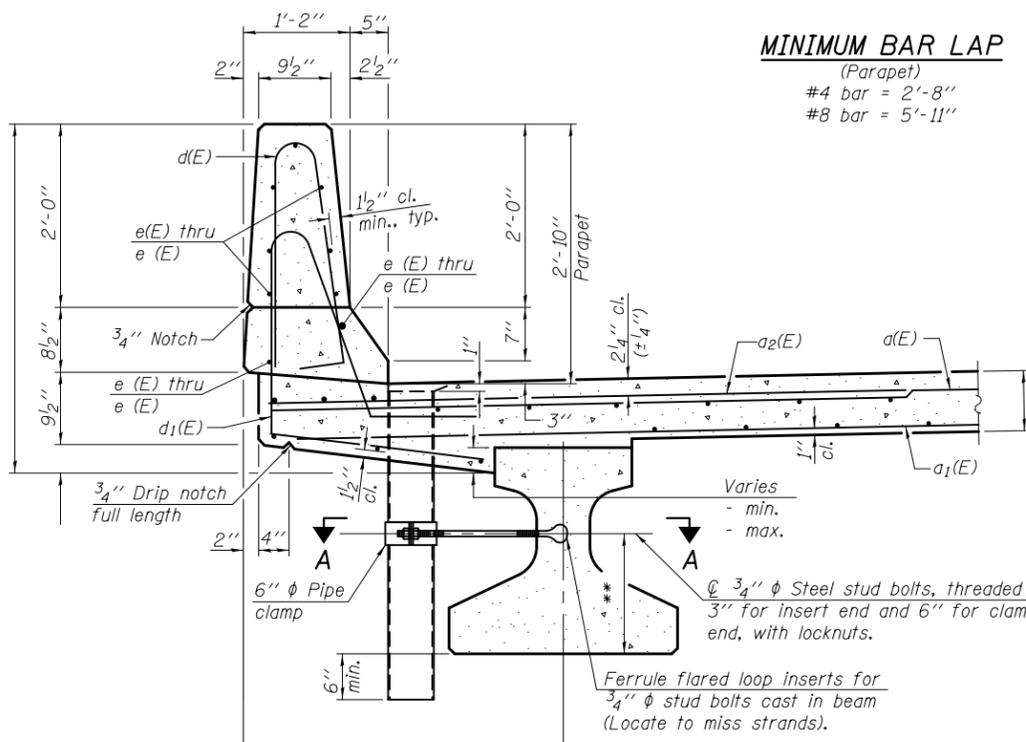
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

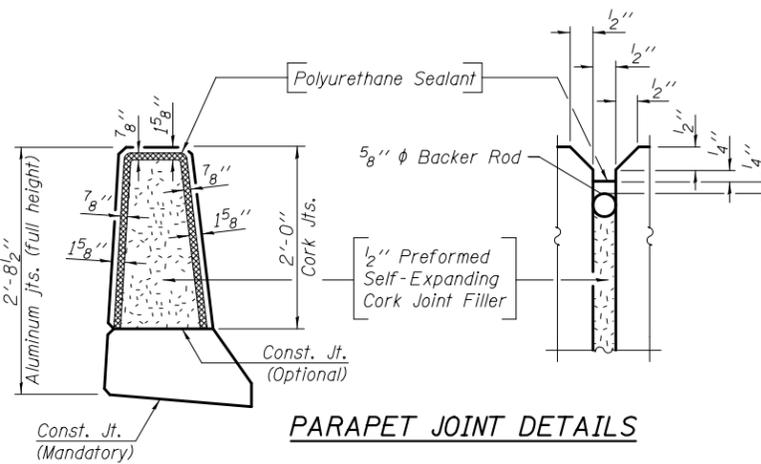


SECTION THRU PARAPET

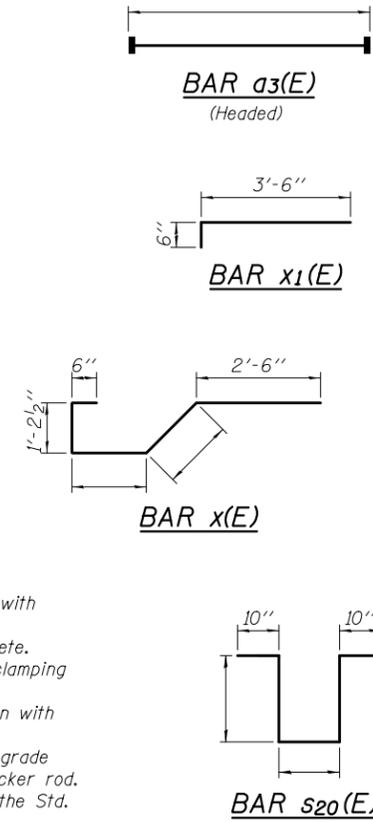
**For insert locations See sheet of

MINIMUM BAR LAP

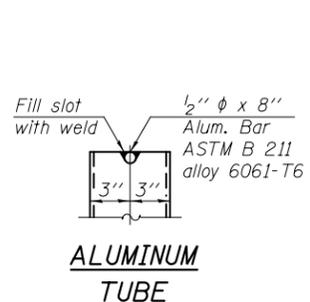
(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



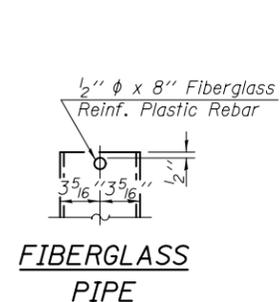
PARAPET JOINT DETAILS



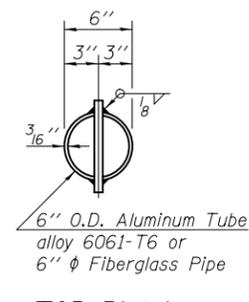
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 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



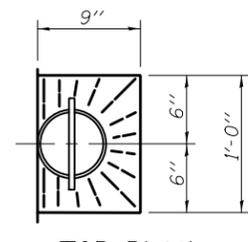
ALUMINUM TUBE



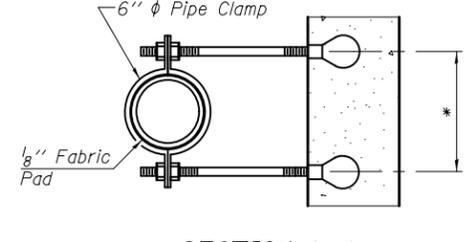
FIBERGLASS PIPE



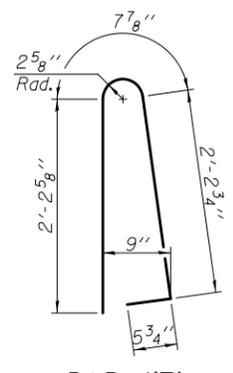
TOP PLAN
 (Showing Aluminum Tube)



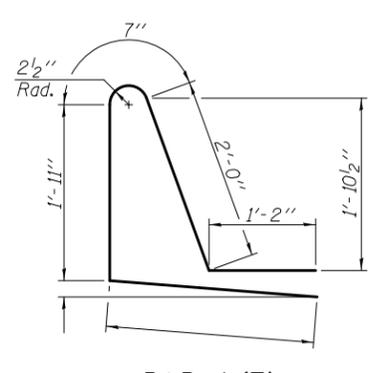
TOP PLAN



SECTION A-A
 *Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-IL27-2

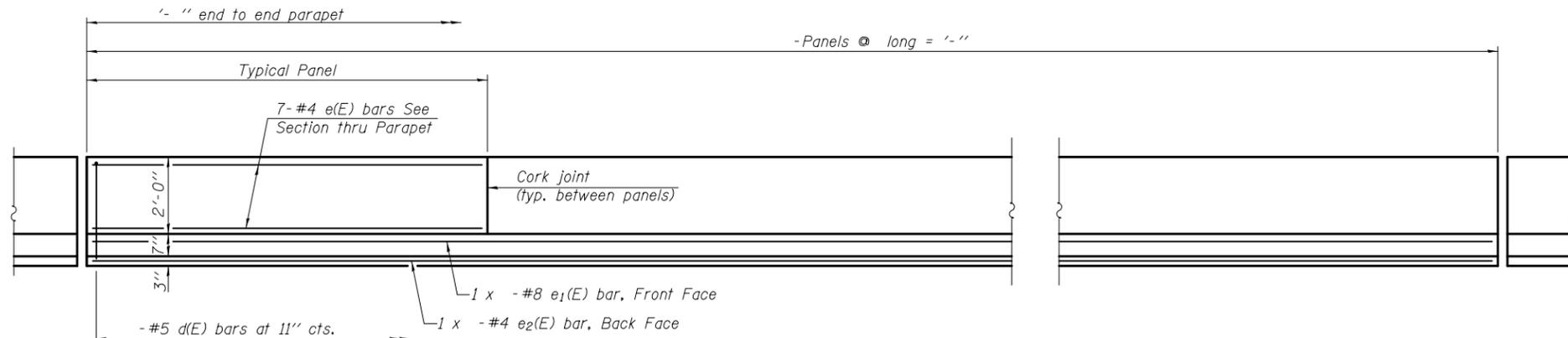
10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
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		DRAWN -	REVISD -
		CHECKED -	REVISD -

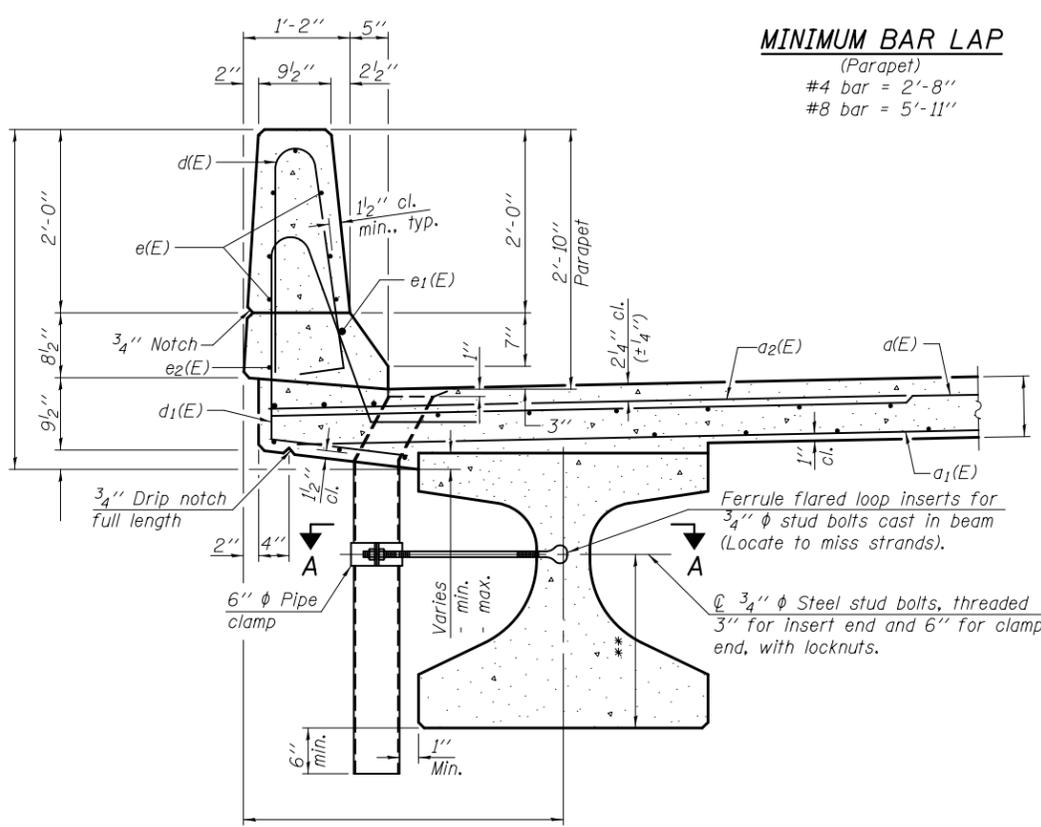
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

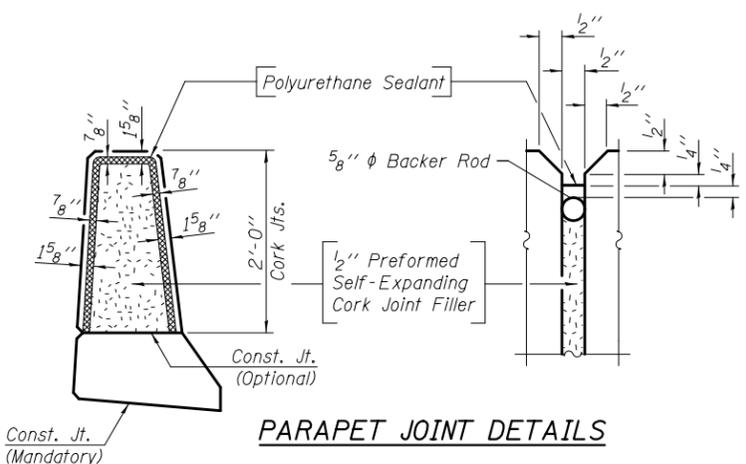


INSIDE ELEVATION OF PARAPET



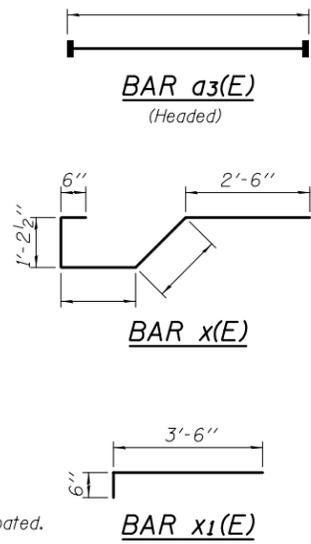
SECTION THRU PARAPET
**For insert locations See sheet of

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"



PARAPET JOINT DETAILS

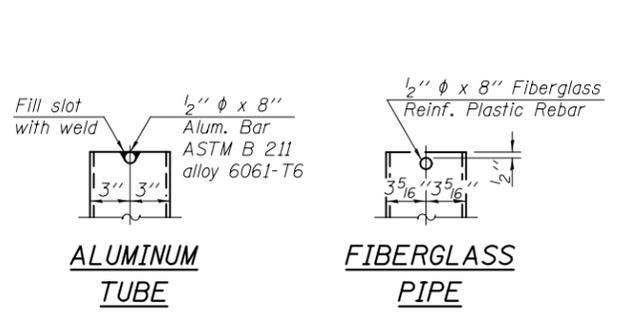
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



SUPERSTRUCTURE BILL OF MATERIAL

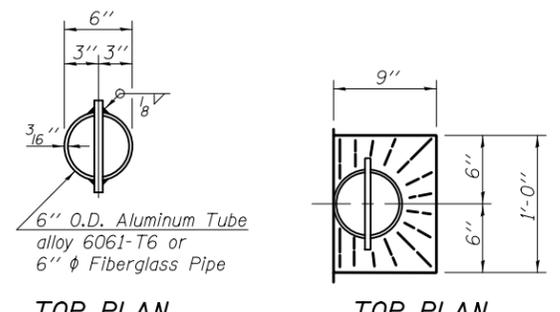
Bar	No.	Size	Length	Shape
a(E)		#5		—
a1(E)		#5		—
a2(E)		#6	6'-6"	—
a3(E)				—
a4(E)				—
a5(E)				—
b(E)		#5		—
b1(E)		#5		—
b2(E)				—
d(E)		#5	5'-7"	⌋
d1(E)		#5		⌋
e(E)		#4		—
e1(E)		#8		—
e2(E)		#4		—
x(E)		#5		⌋
x1(E)		#5	4'-0"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

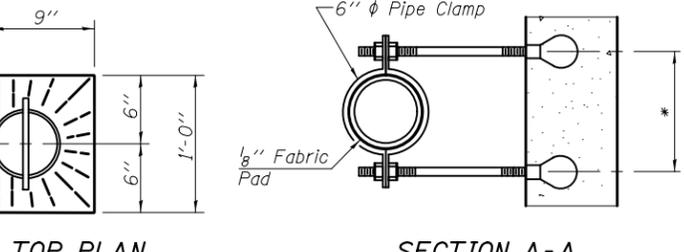


ALUMINUM TUBE

FIBERGLASS PIPE

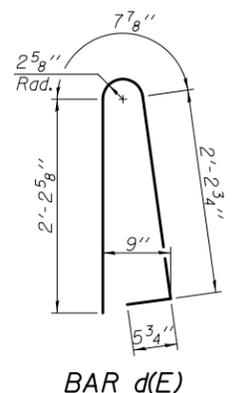


TOP PLAN
(Showing Aluminum Tube)

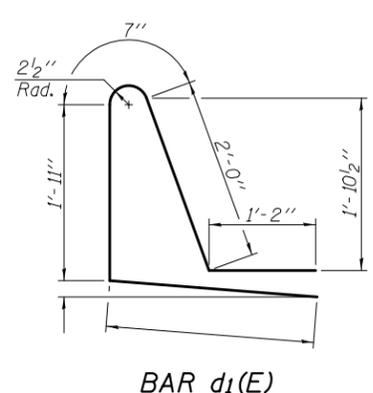


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-IL36-1

10-7-2016

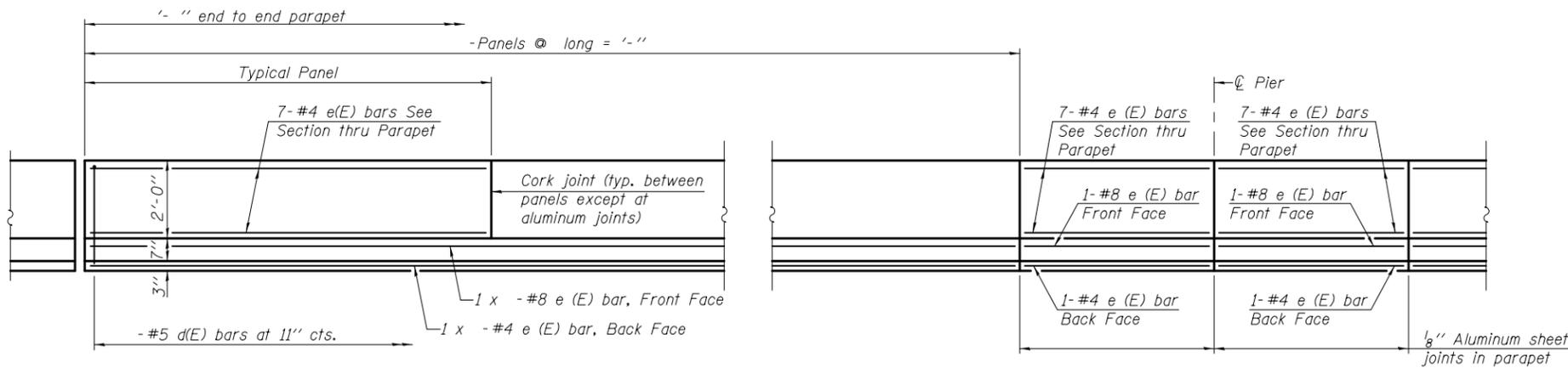
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

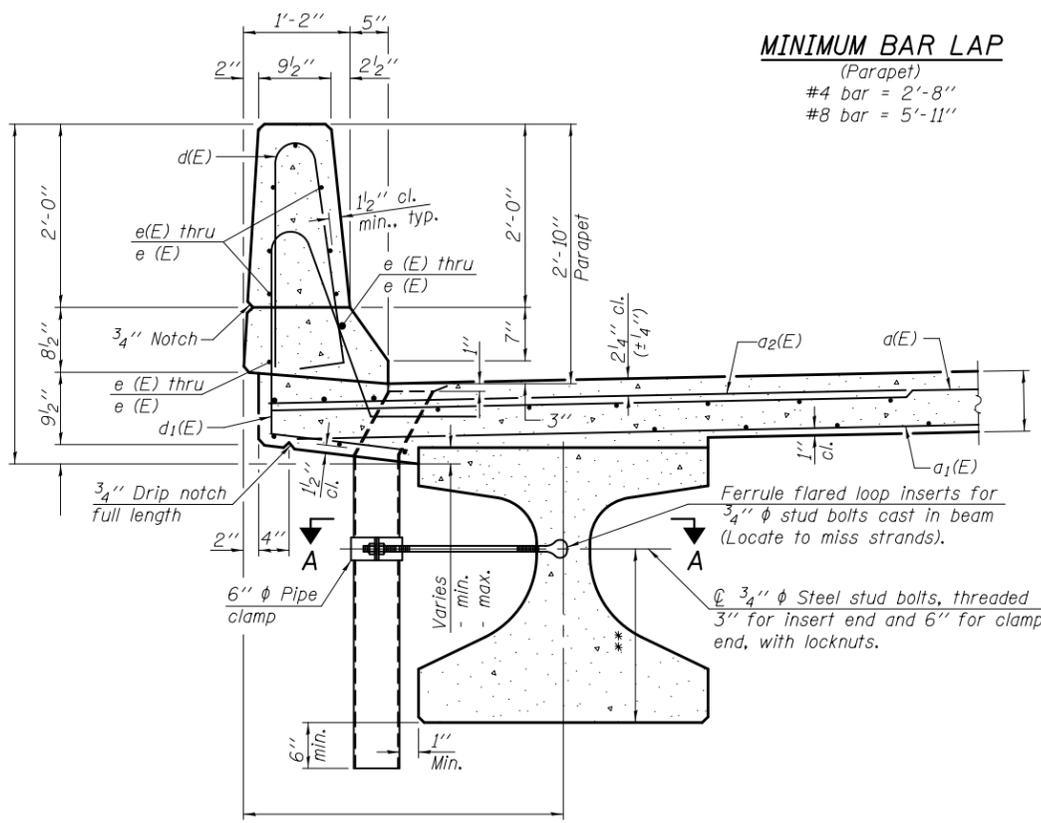
SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF PARAPET

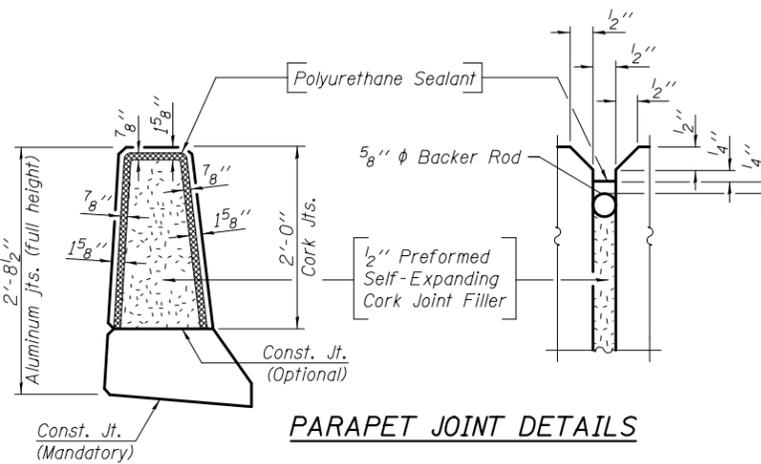


SECTION THRU PARAPET

**For insert locations See sheet of

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

Notes:

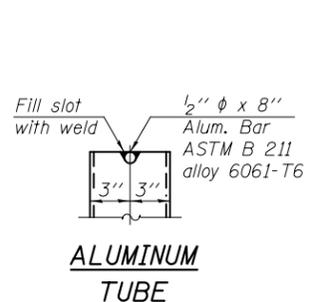
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8 inch Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8 inch backer rod.
 The 1/2 inch Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

BAR a3(E)
(Headed)

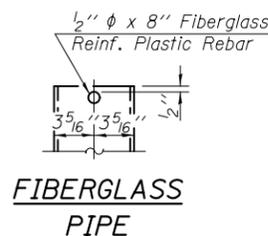
BAR x1(E)

BAR x(E)

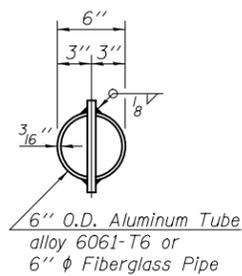
BAR s20(E)



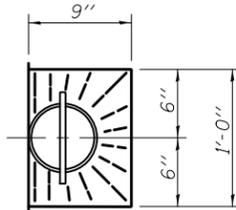
ALUMINUM TUBE



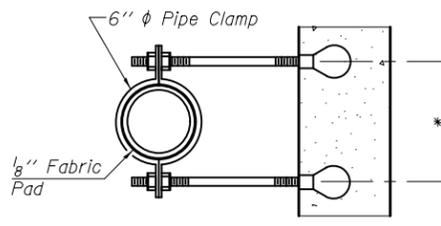
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

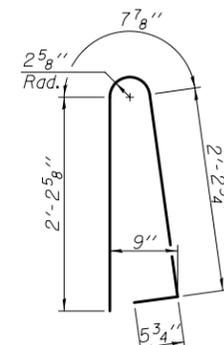


TOP PLAN

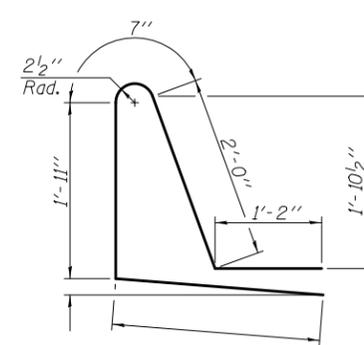


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-IL36-2

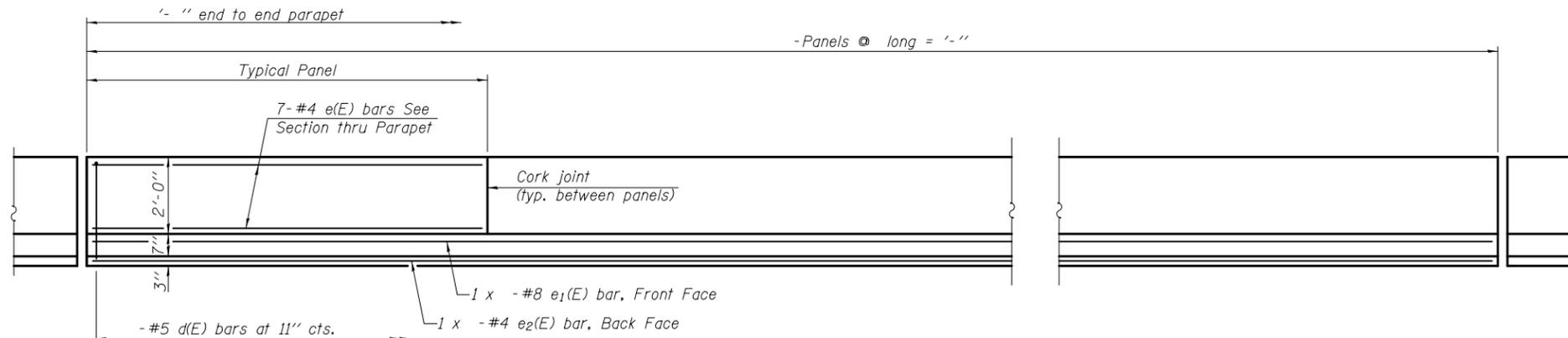
10-7-2016

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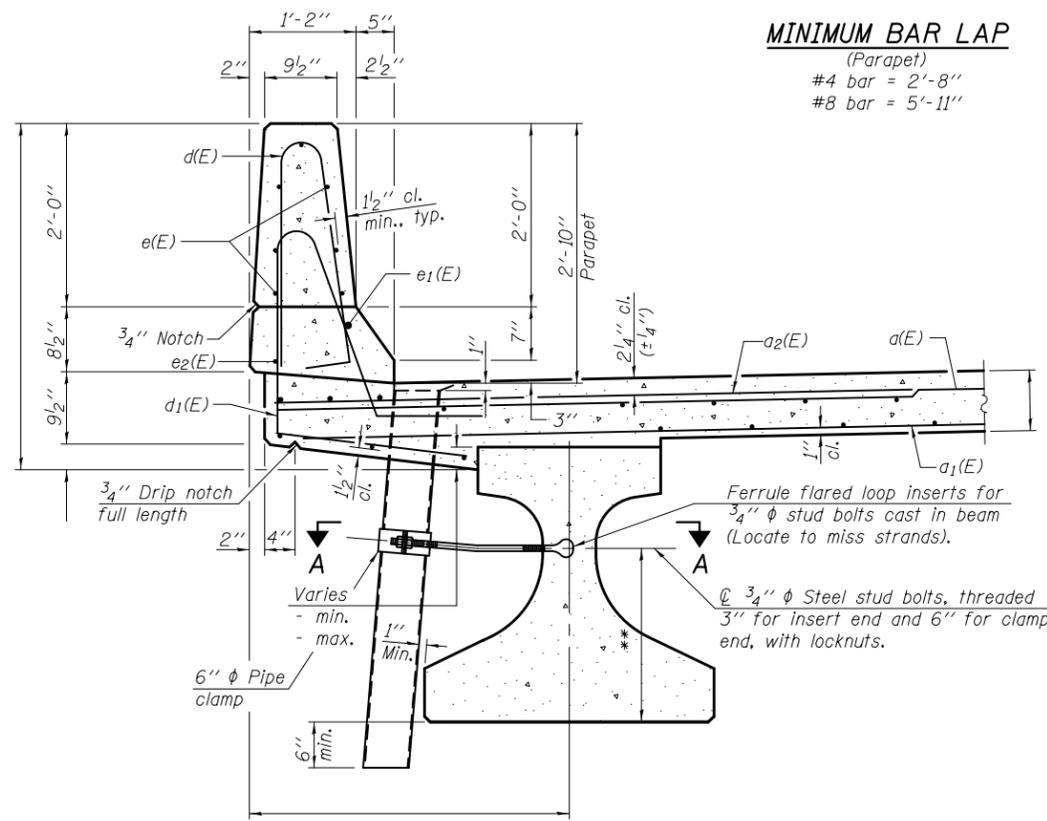
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



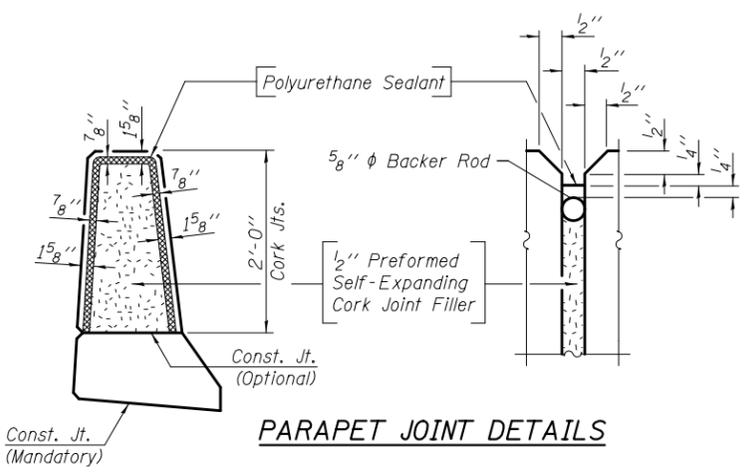
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

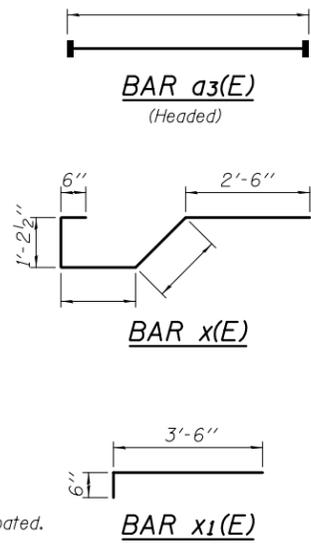
**For insert locations See sheet of .

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"



PARAPET JOINT DETAILS

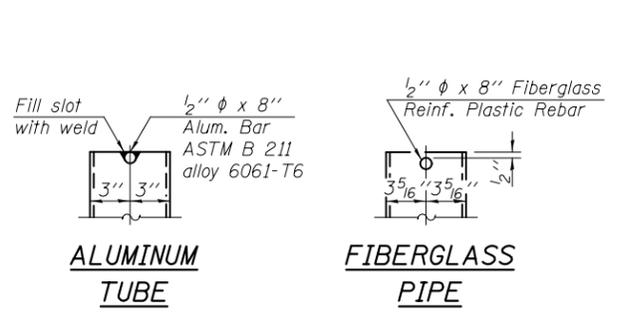
Notes:
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Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



SUPERSTRUCTURE BILL OF MATERIAL

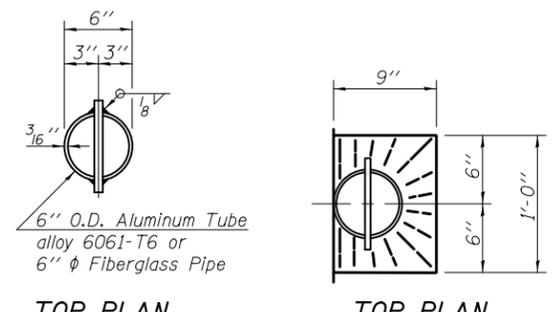
Bar	No.	Size	Length	Shape
a(E)		#5		—
a1(E)		#5		—
a2(E)		#6	6'-6"	—
a3(E)				—
a4(E)				—
a5(E)				—
b(E)		#5		—
b1(E)		#5		—
b2(E)				—
d(E)		#5	5'-7"	⌋
d1(E)		#5		⌋
e(E)		#4		—
e1(E)		#8		—
e2(E)		#4		—
x(E)		#5		⌋
x1(E)		#5	4'-0"	—
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

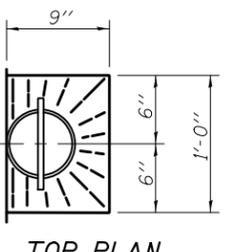


ALUMINUM TUBE

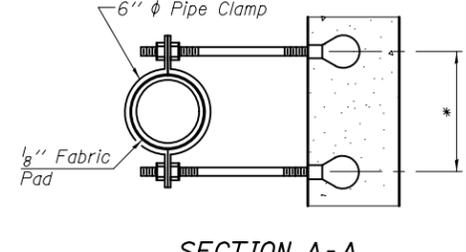
FIBERGLASS PIPE



TOP PLAN (Showing Aluminum Tube)

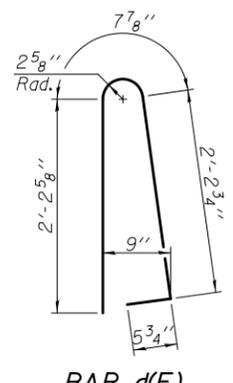


TOP PLAN

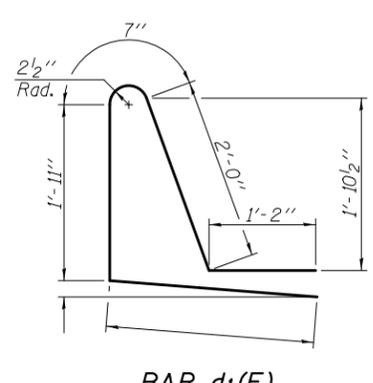


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-IL36N-1 10-7-2016

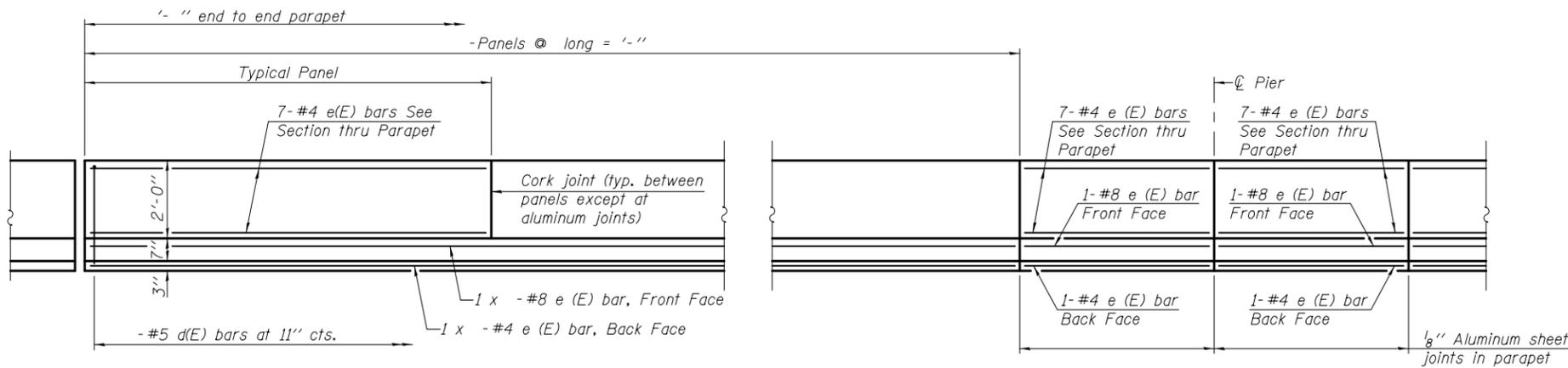
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

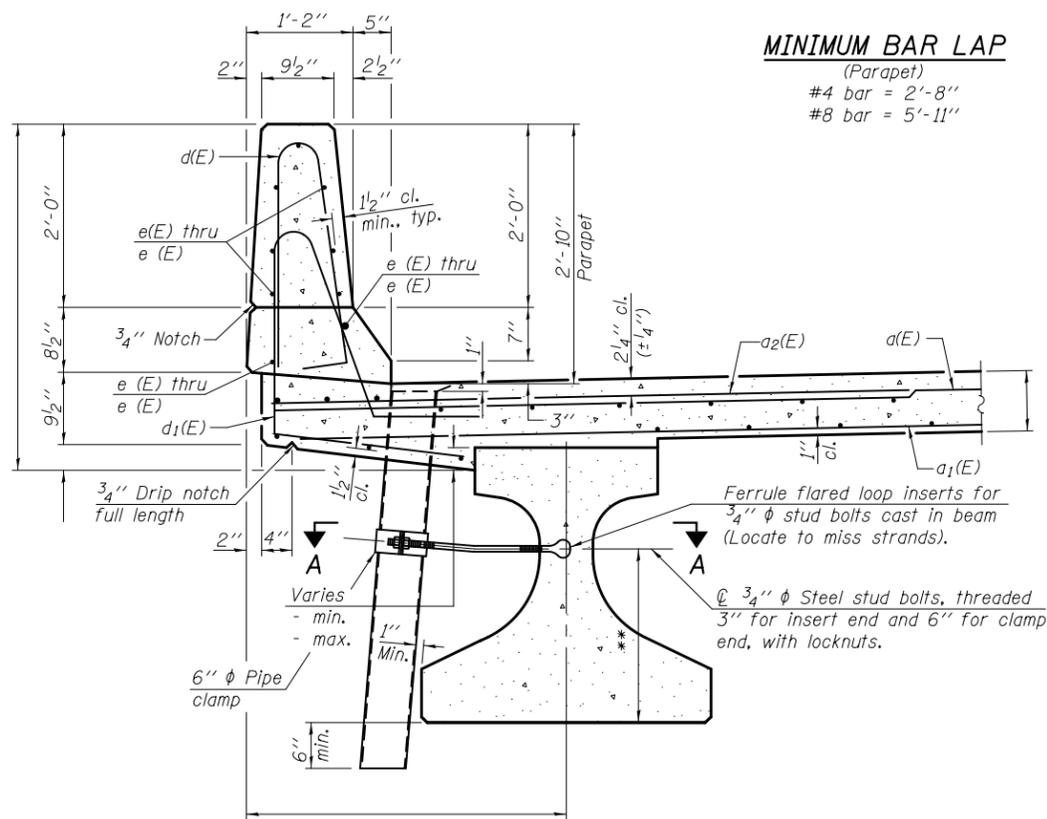
SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF PARAPET

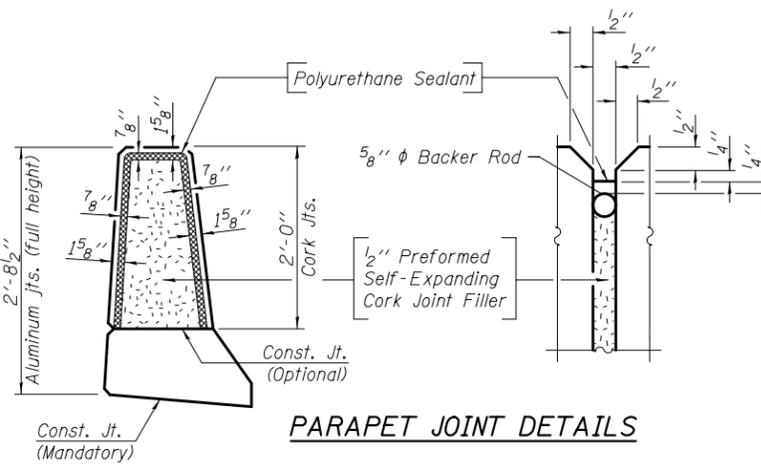


SECTION THRU PARAPET

**For insert locations See sheet of

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

Notes:

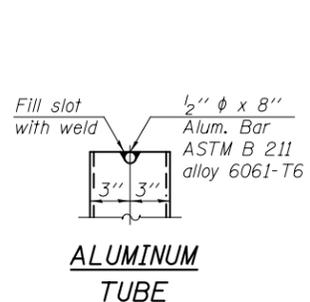
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

BAR a3(E)
(Headed)

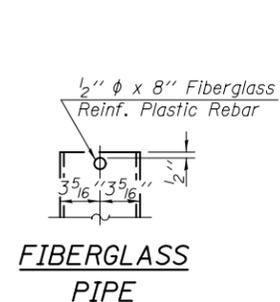
BAR x1(E)

BAR x(E)

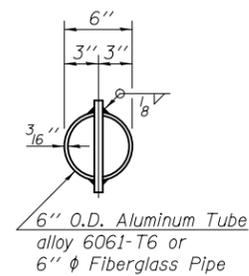
BAR s20(E)



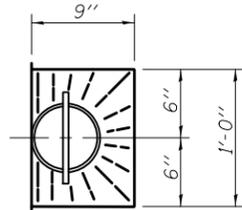
ALUMINUM TUBE



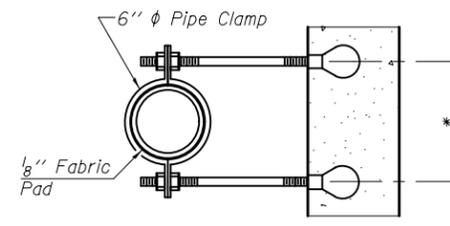
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

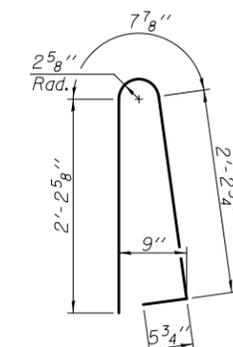


TOP PLAN

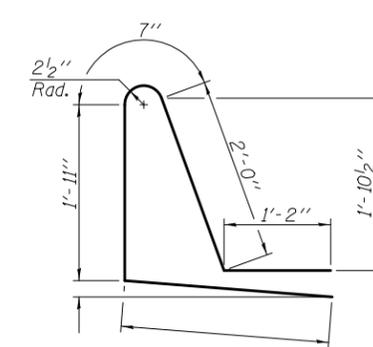


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SDE-IL36N-2

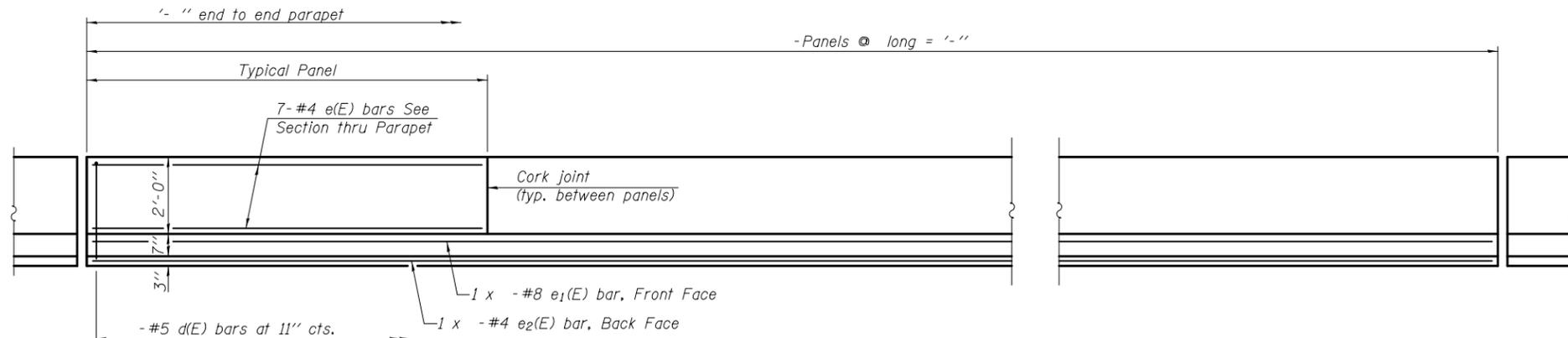
10-7-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

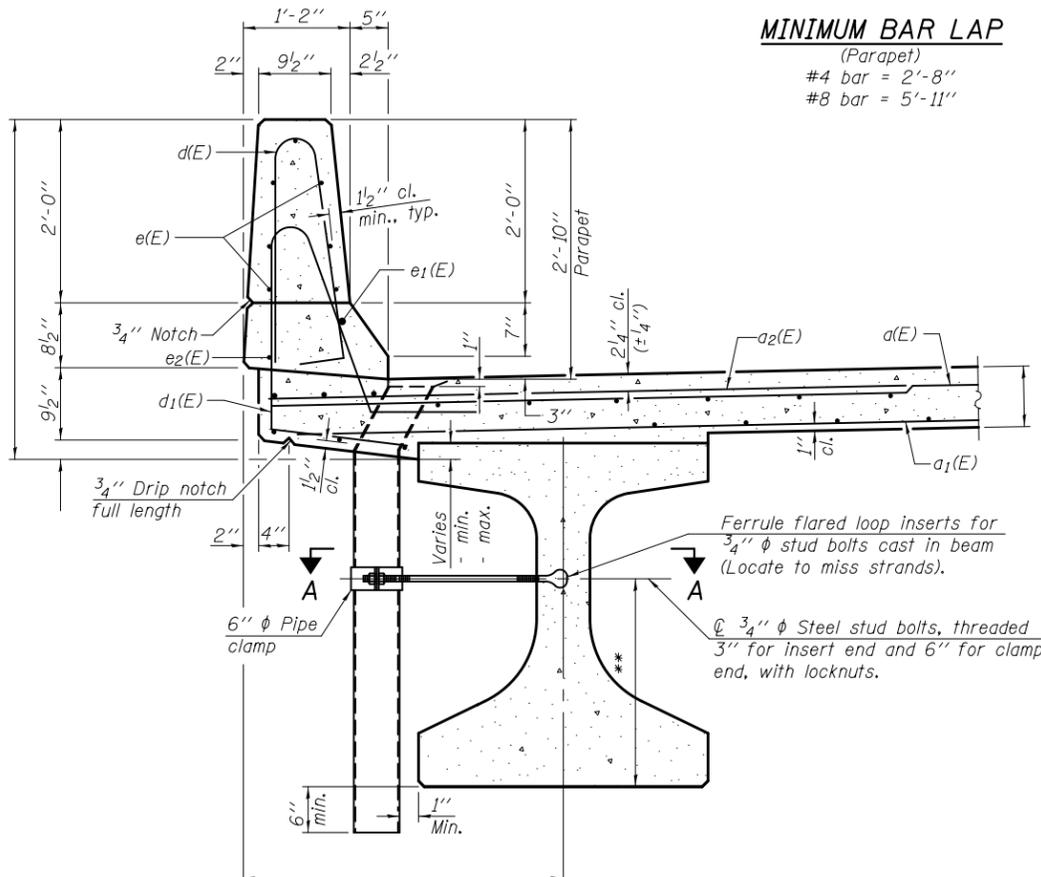
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STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

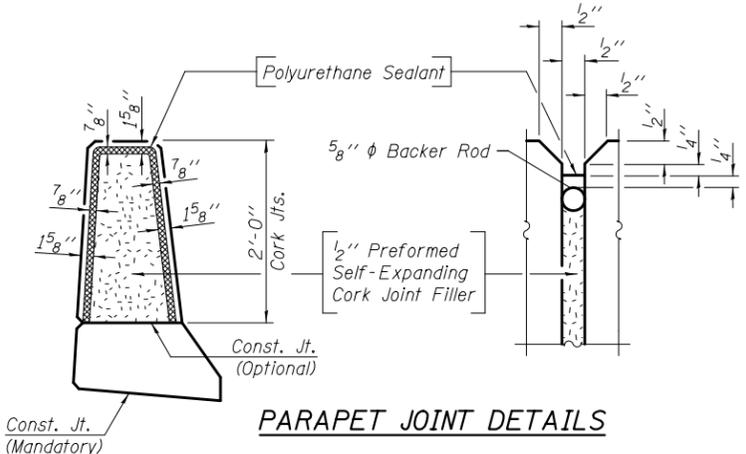


INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"

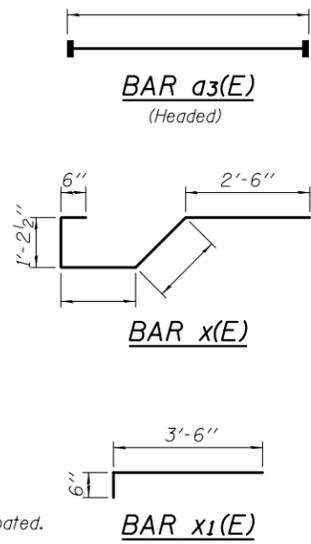


SECTION THRU PARAPET
**For insert locations See sheet of



PARAPET JOINT DETAILS

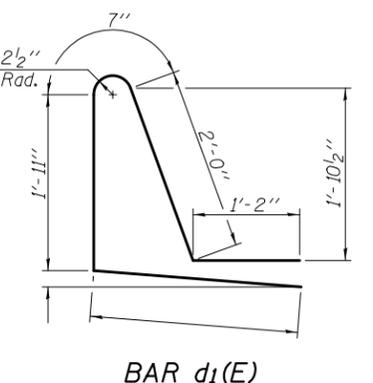
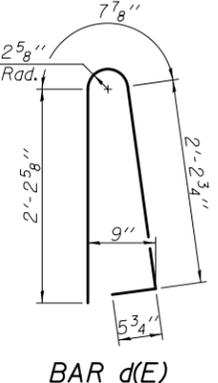
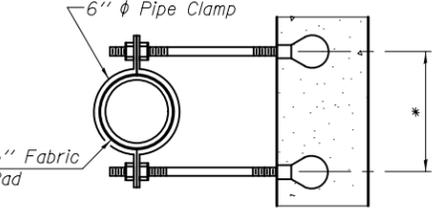
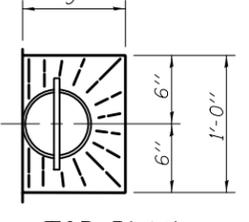
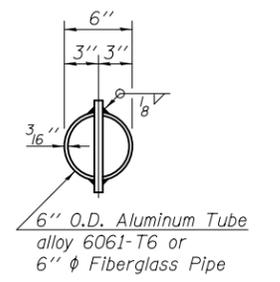
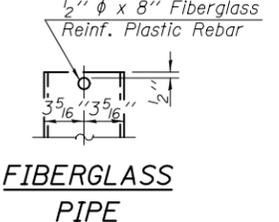
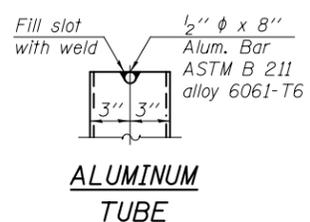
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Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



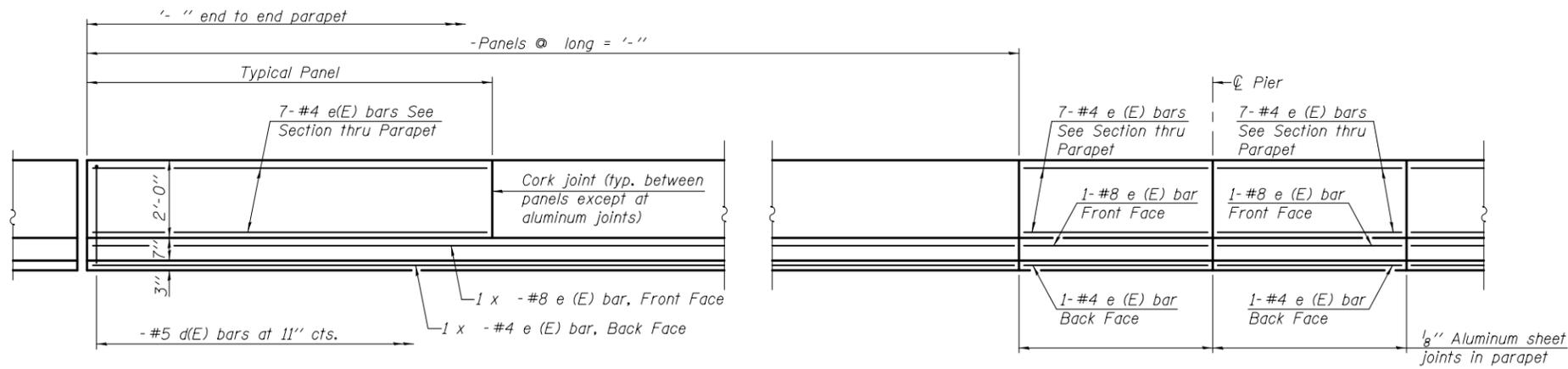
SDE-IL4554-1 10-7-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

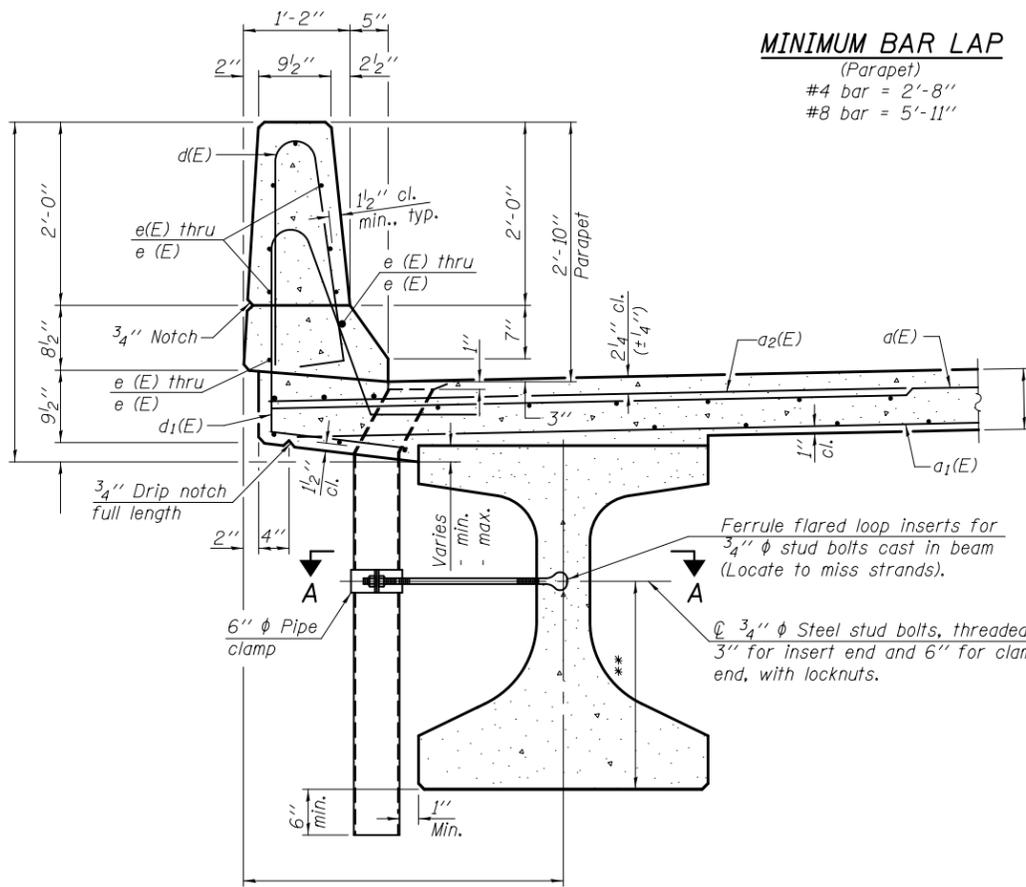
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

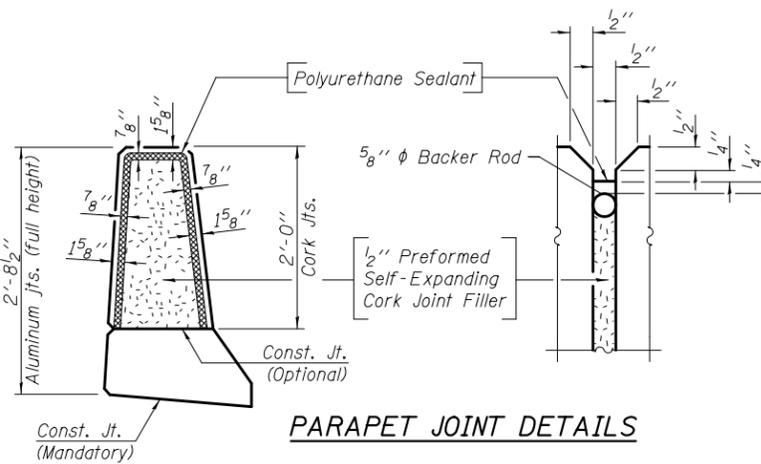
MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



SECTION THRU PARAPET

**For insert locations See sheet of



PARAPET JOINT DETAILS

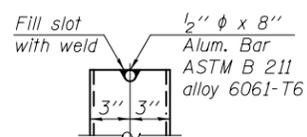
Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

BAR a3(E)
(Headed)

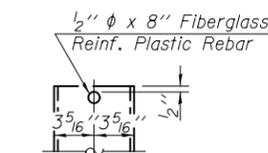
BAR x1(E)

BAR x(E)

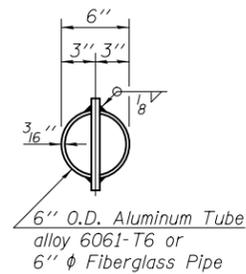
BAR s20(E)



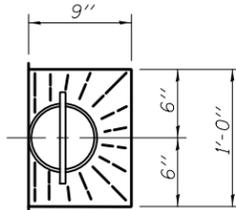
ALUMINUM TUBE



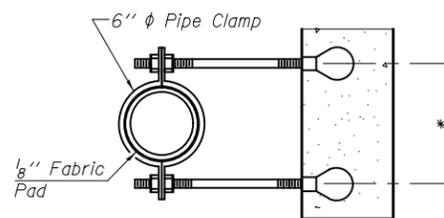
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

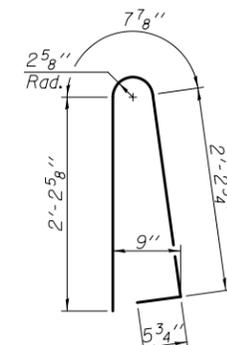


TOP PLAN

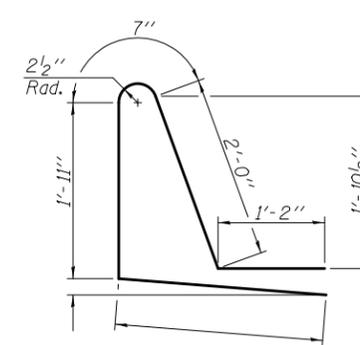


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

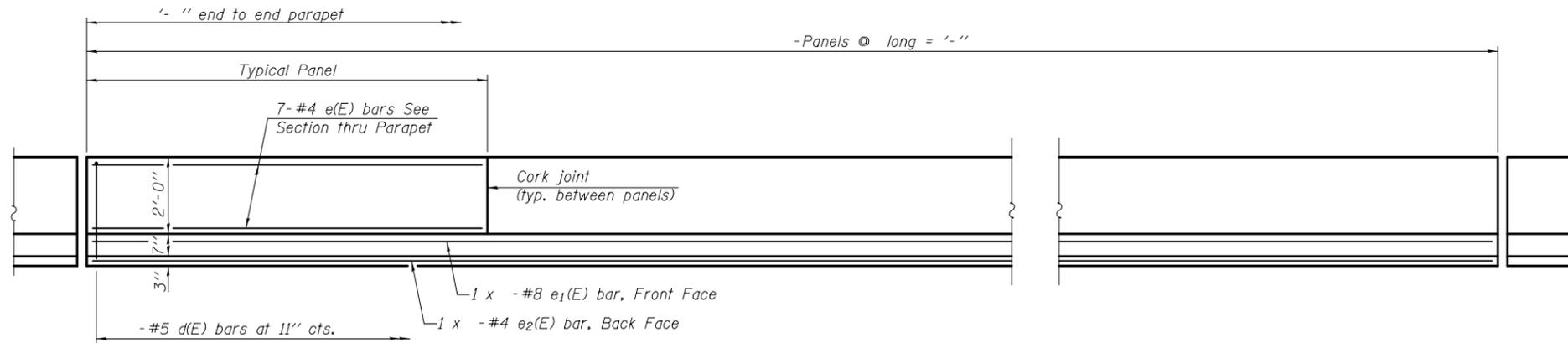
SDE-IL4554-2 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
		CHECKED -	REVISD -
		DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

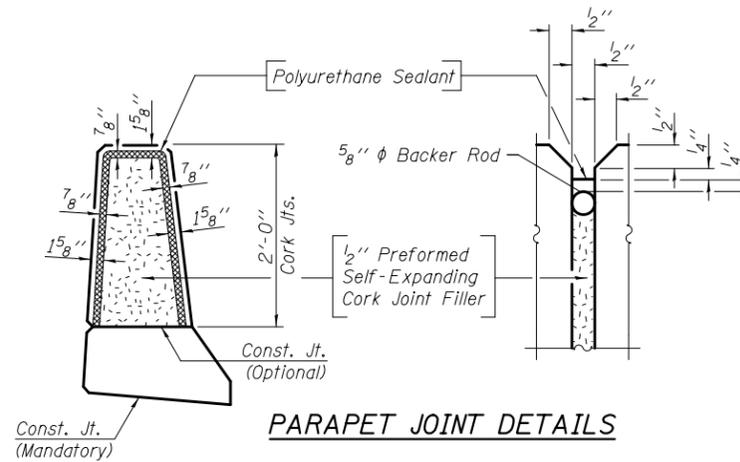
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



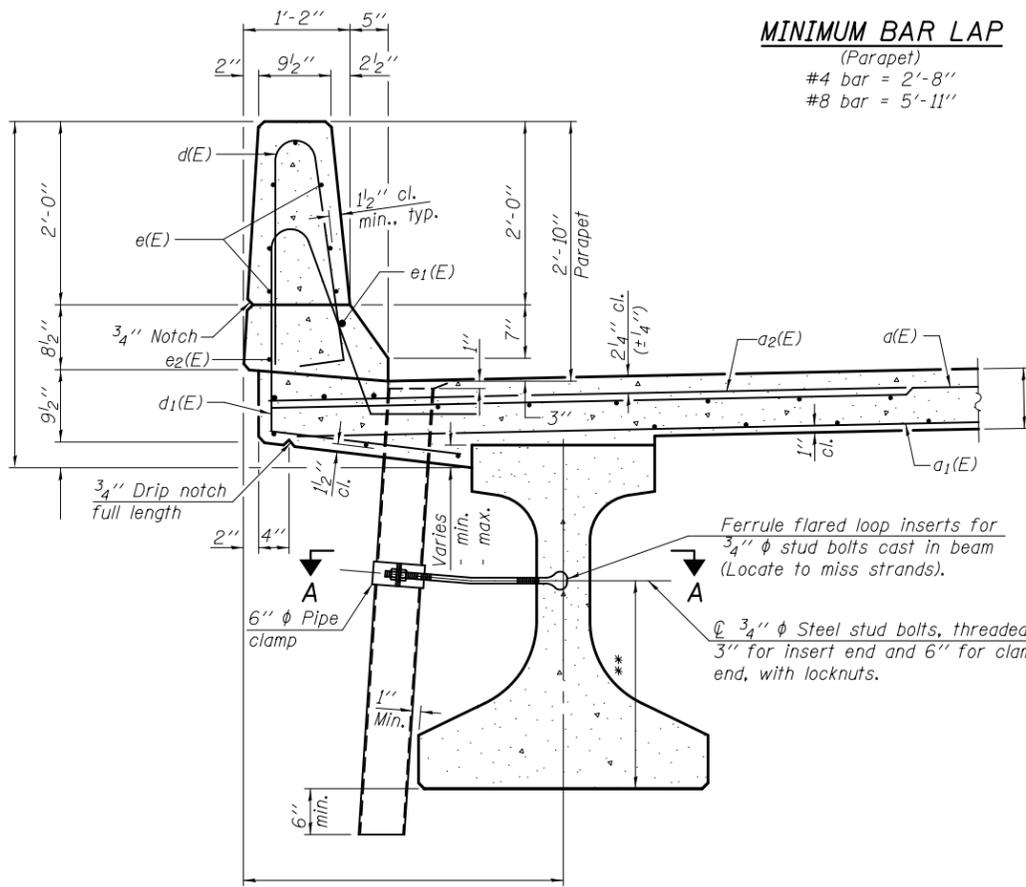
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS

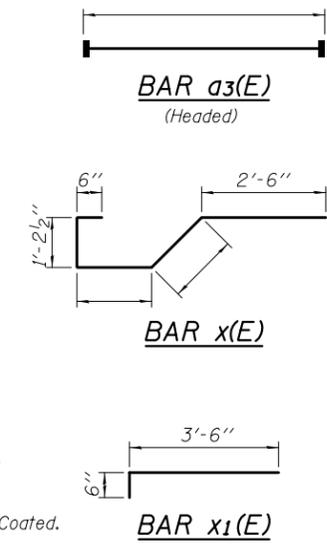


SECTION THRU PARAPET

**For insert locations See sheet of

Notes:

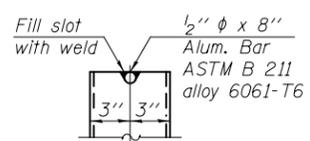
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 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



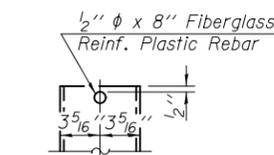
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

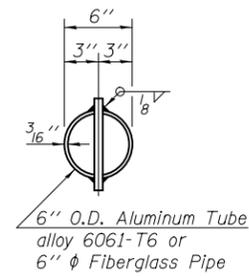
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



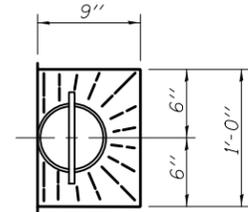
ALUMINUM TUBE



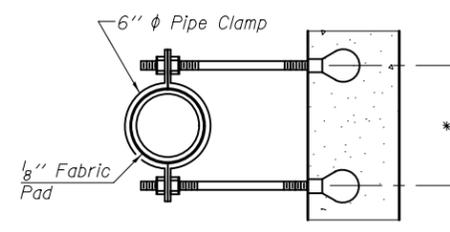
FIBERGLASS PIPE



TOP PLAN (Showing Aluminum Tube)

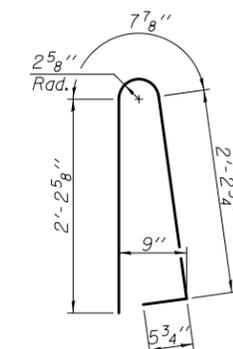


TOP PLAN

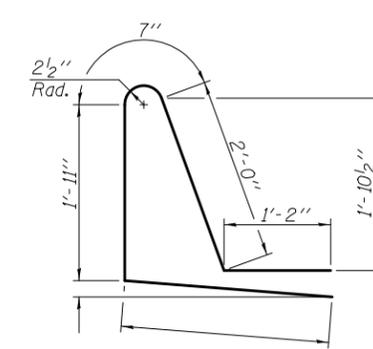


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

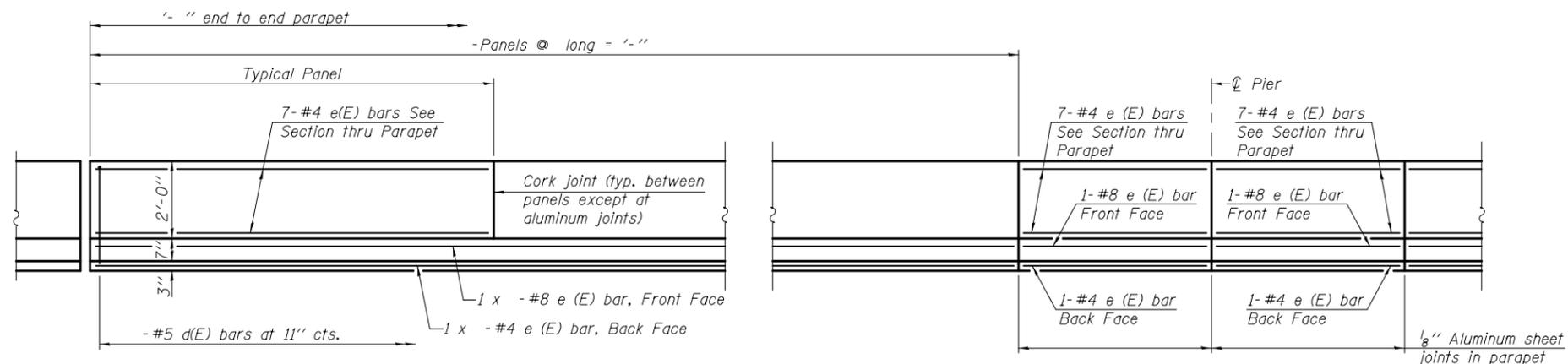
SDE-IL4554N-1 10-7-2016

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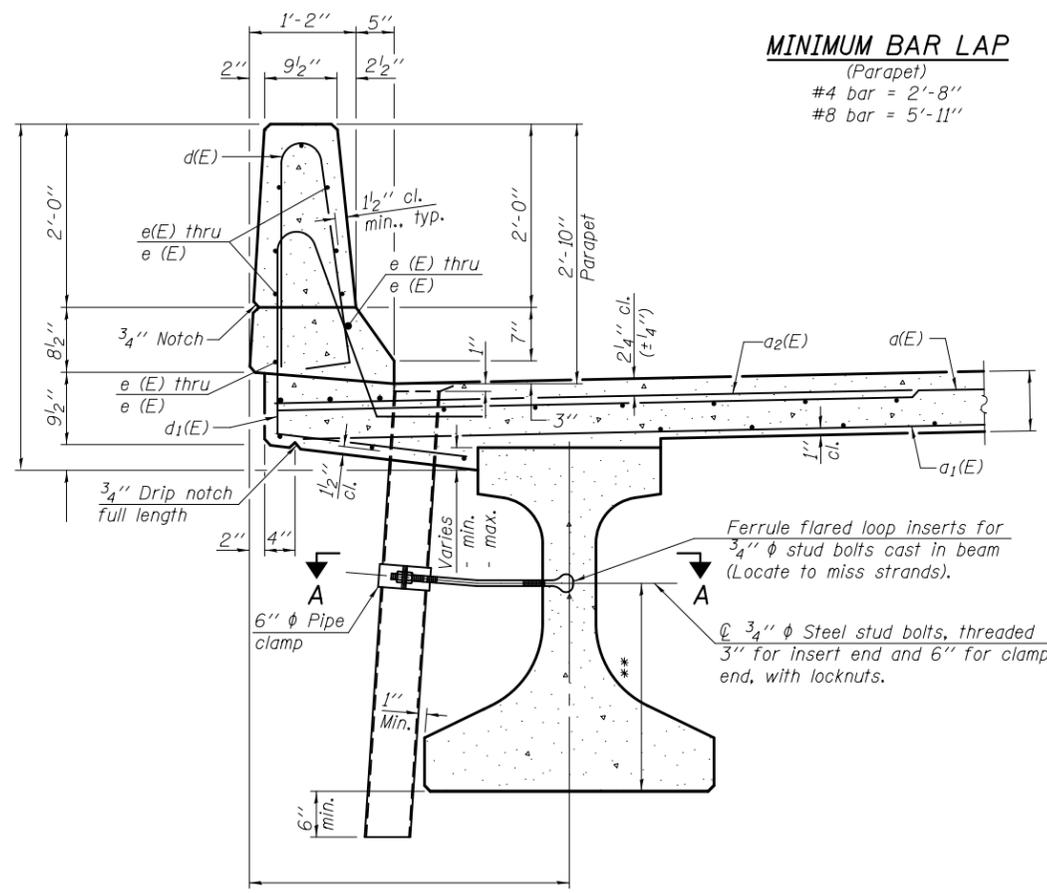
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

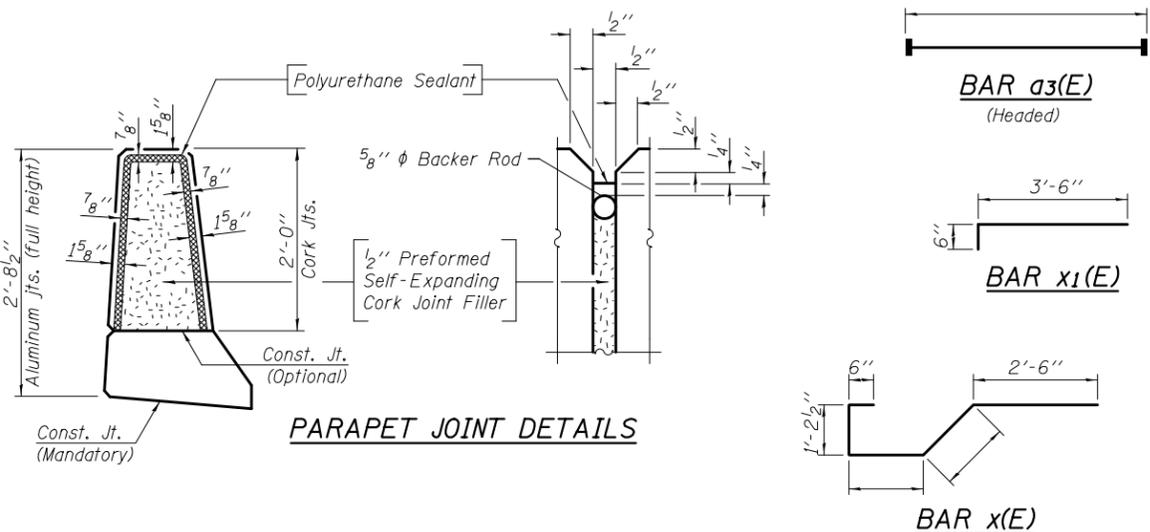


SECTION THRU PARAPET

**For insert locations See sheet of

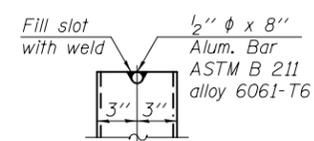
MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"

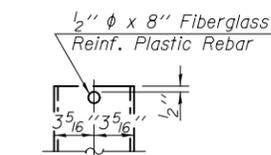


PARAPET JOINT DETAILS

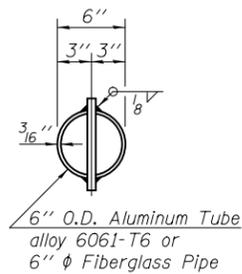
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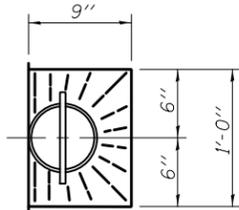
ALUMINUM TUBE



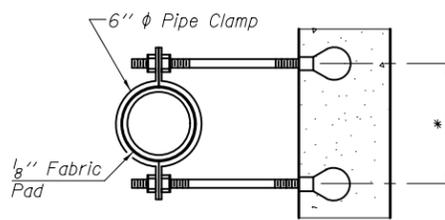
FIBERGLASS PIPE



TOP PLAN
 (Showing Aluminum Tube)

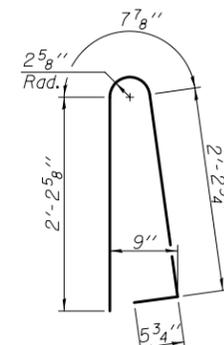


TOP PLAN

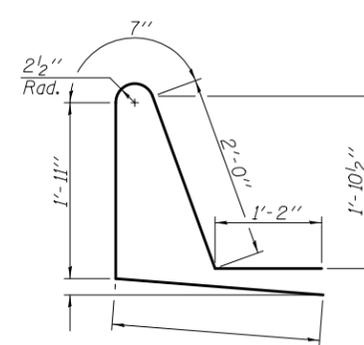


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

BAR a3(E)
 (Headed)

BAR x1(E)

BAR x(E)

BAR s20(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

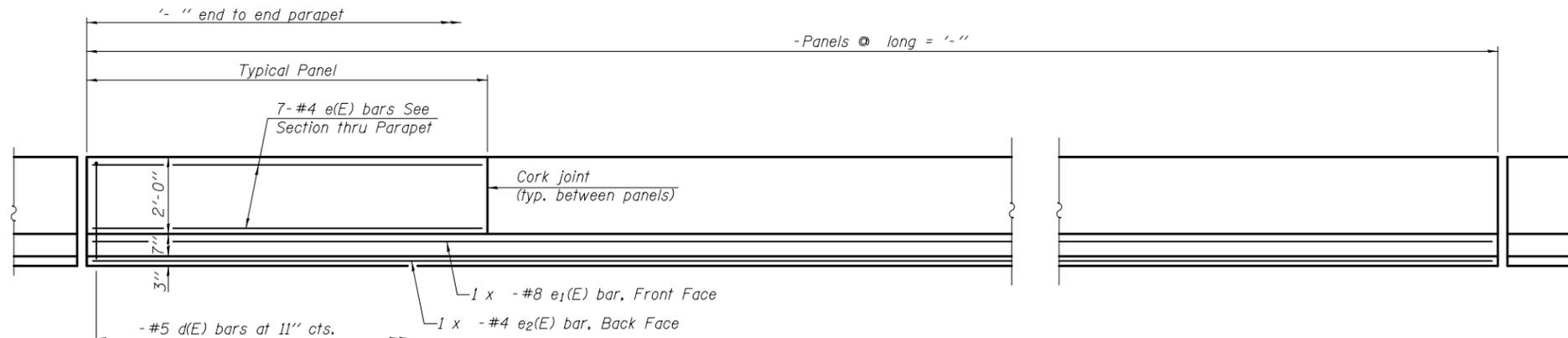
SDE-IL4554N-2 10-7-2016

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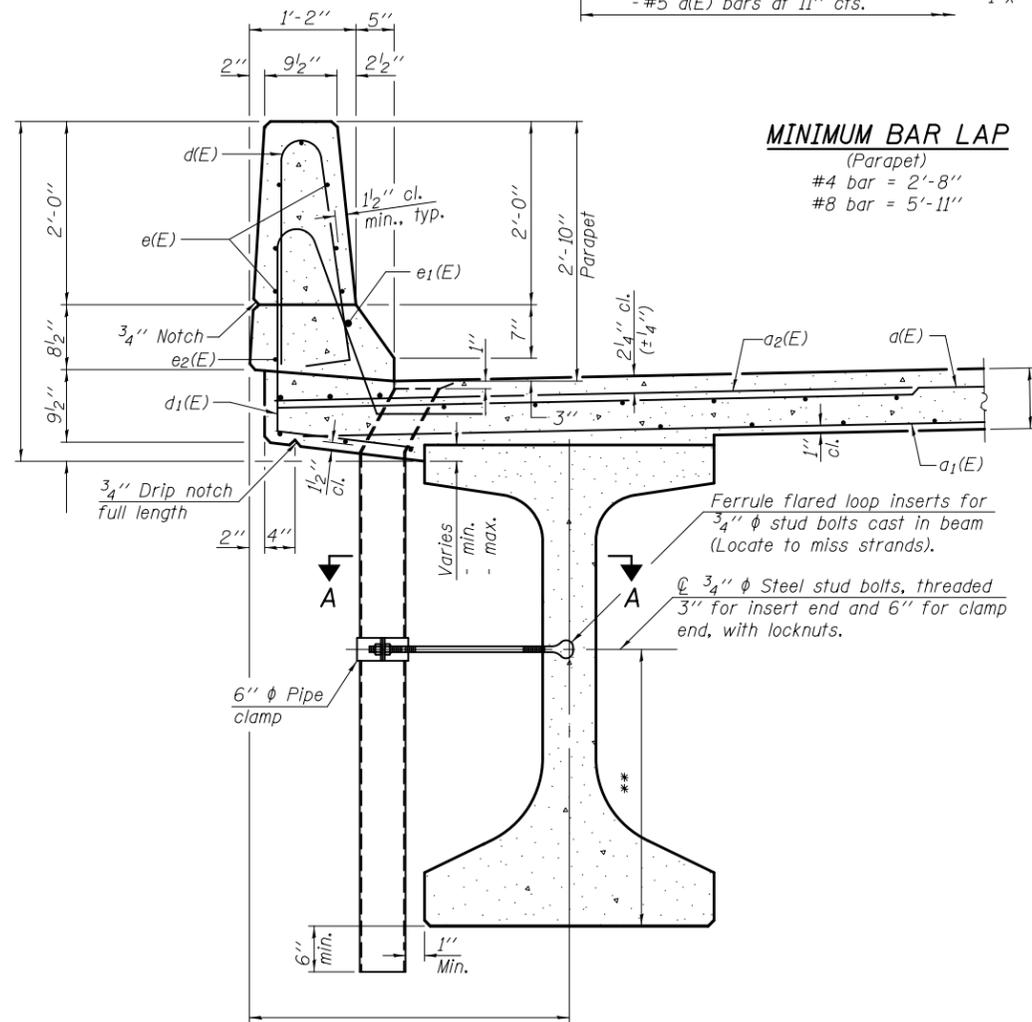
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

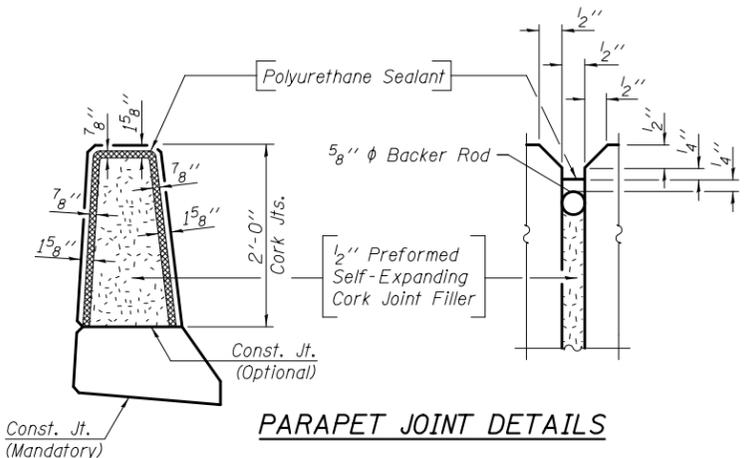


INSIDE ELEVATION OF PARAPET



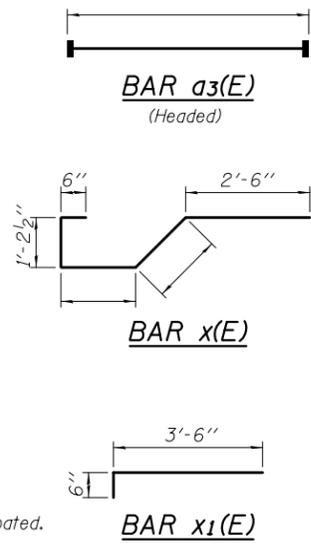
SECTION THRU PARAPET

**For insert locations See sheet of



PARAPET JOINT DETAILS

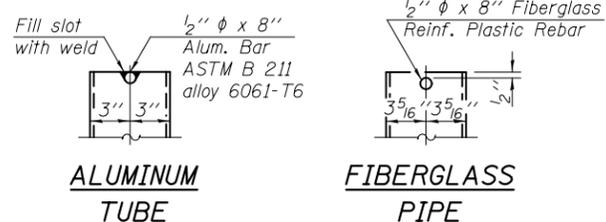
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SUPERSTRUCTURE BILL OF MATERIAL

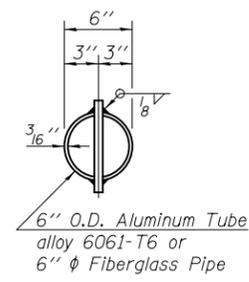
Bar	No.	Size	Length	Shape
a(E)		#5		—
a1(E)		#5		—
a2(E)		#6	6'-6"	—
a3(E)				—
a4(E)				—
a5(E)				—
b(E)		#5		—
b1(E)		#5		—
b2(E)				—
d(E)		#5	5'-7"	⌒
d1(E)		#5		⌒
e(E)		#4		—
e1(E)		#8		—
e2(E)		#4		—
x(E)		#5		⌒
x1(E)		#5	4'-0"	—
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

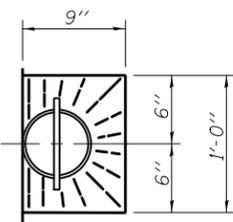


ALUMINUM TUBE

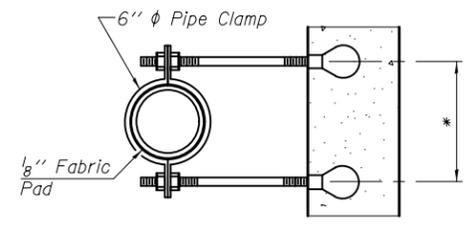
FIBERGLASS PIPE



TOP PLAN (Showing Aluminum Tube)

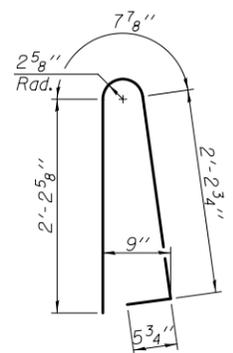


TOP PLAN

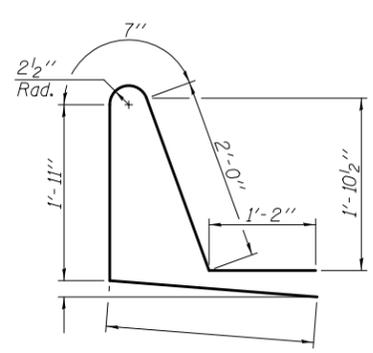


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

SDE-IL6372-1 10-7-2016

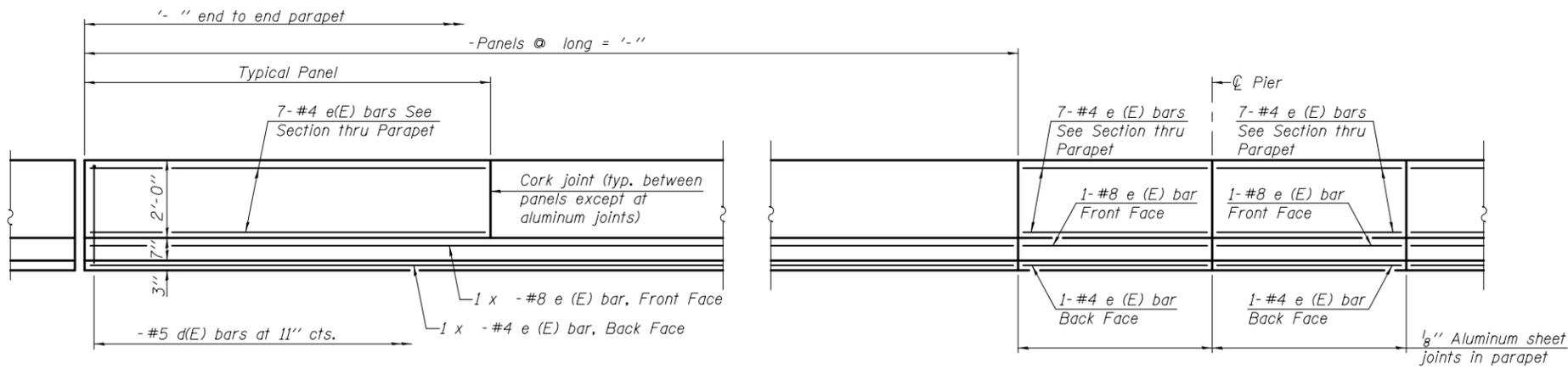
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

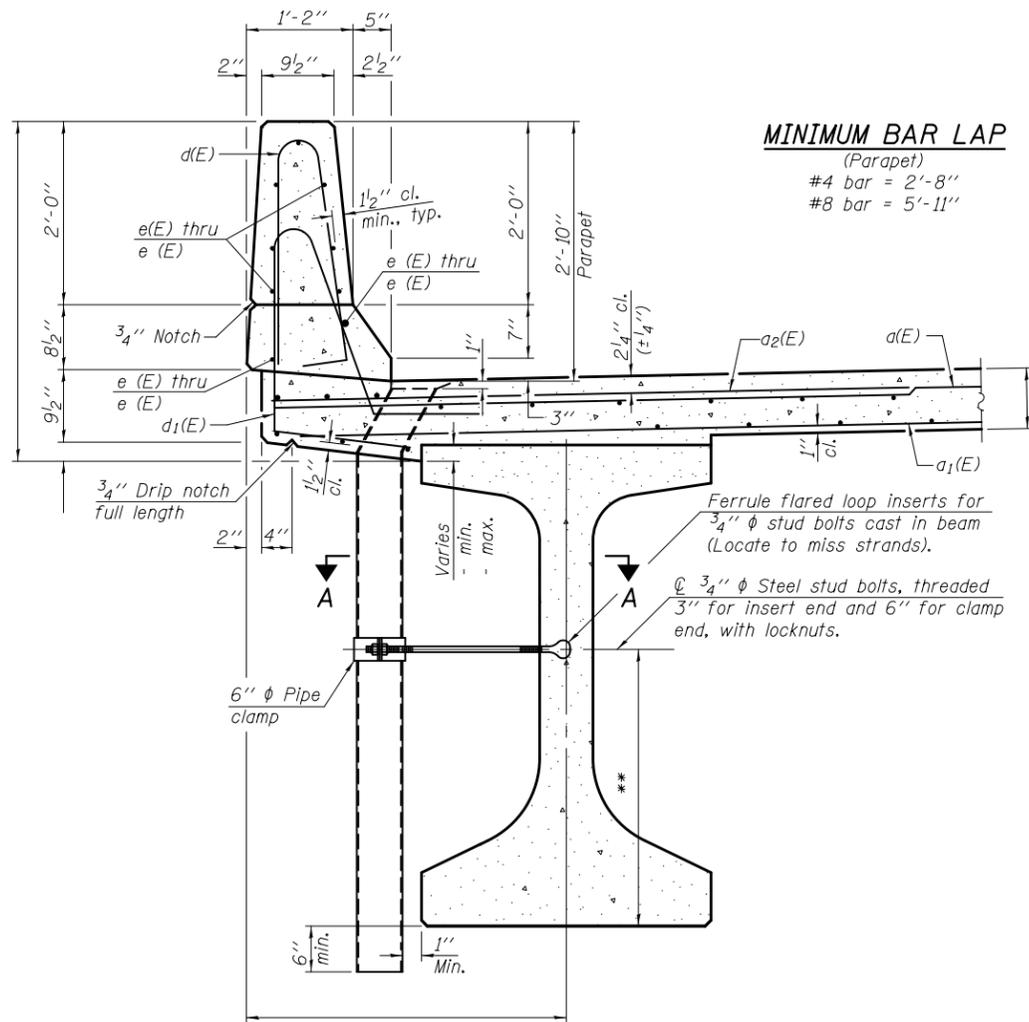
SUPERSTRUCTURE DETAILS STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

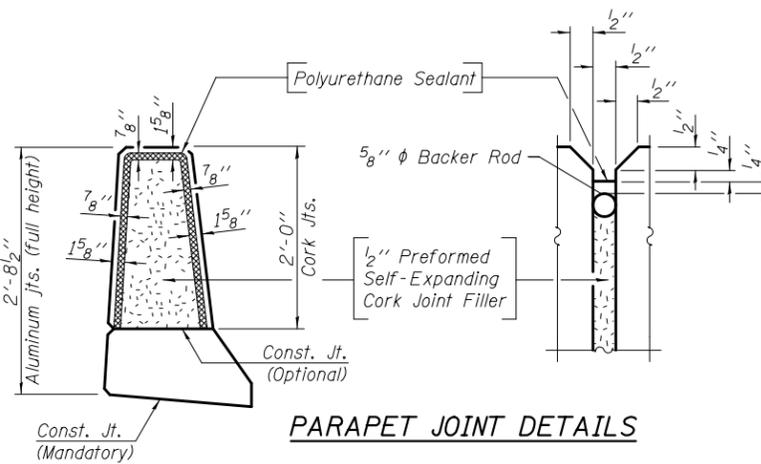


INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



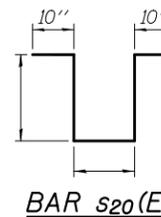
PARAPET JOINT DETAILS

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BAR a3(E)
(Headed)

BAR x1(E)

BAR x(E)



BAR s20(E)

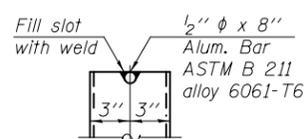
SUPERSTRUCTURE
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)				
b2(E)		#5		
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
m20(E)		#6		
m21(E)		#6		
m22(E)		#5	4'-0"	
s20(E)		#5		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

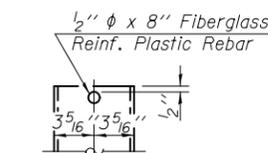
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SECTION THRU PARAPET

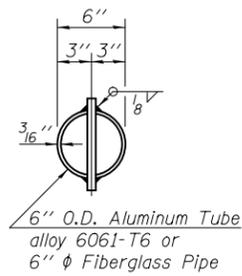
**For insert locations See sheet of



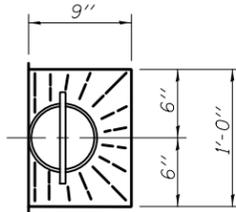
ALUMINUM TUBE



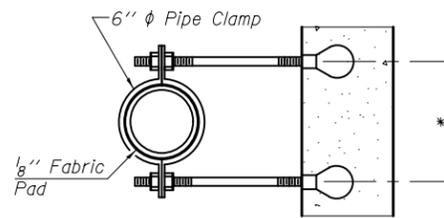
FIBERGLASS PIPE



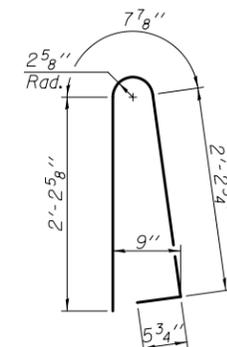
TOP PLAN
(Showing Aluminum Tube)



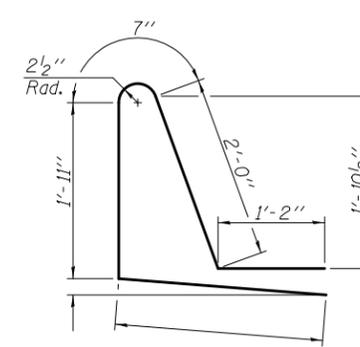
TOP PLAN



SECTION A-A
*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

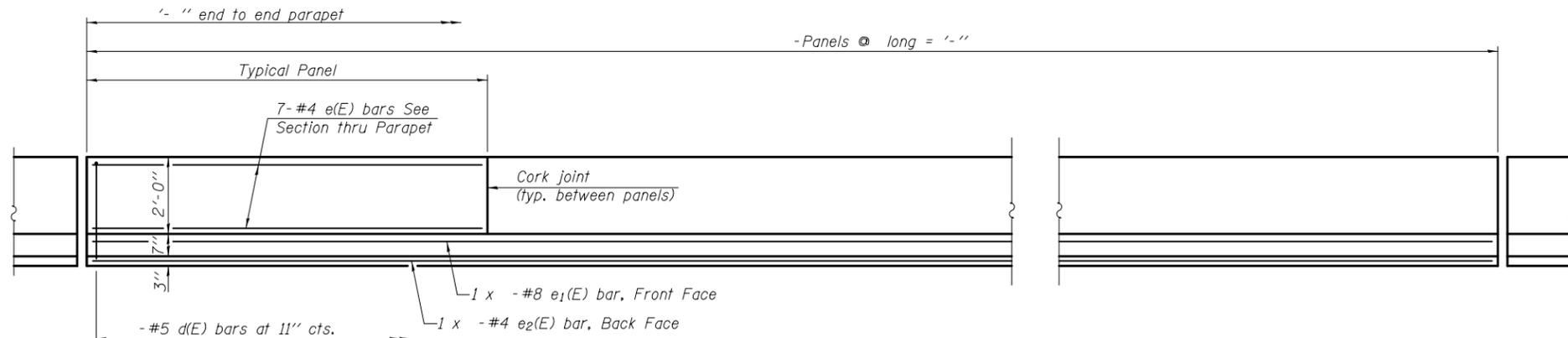
SDE-IL6372-2 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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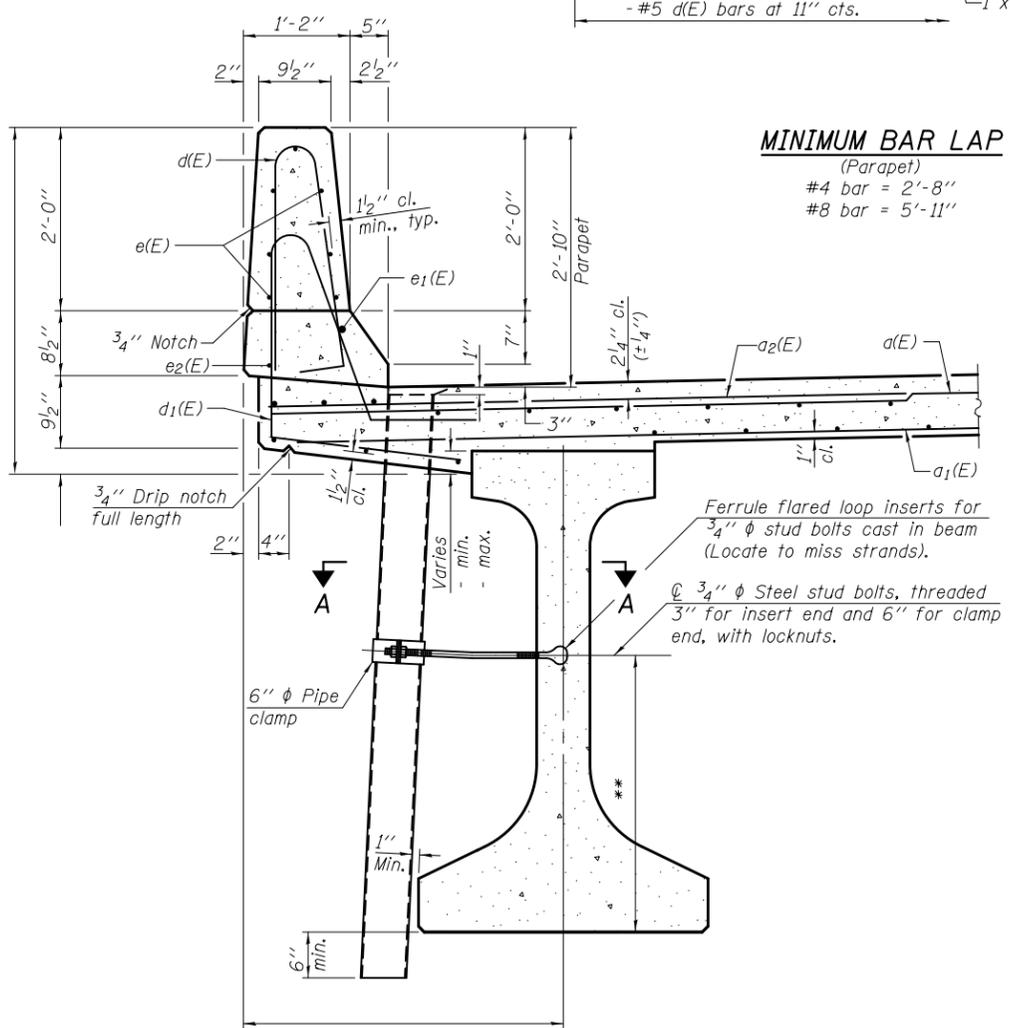
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO.

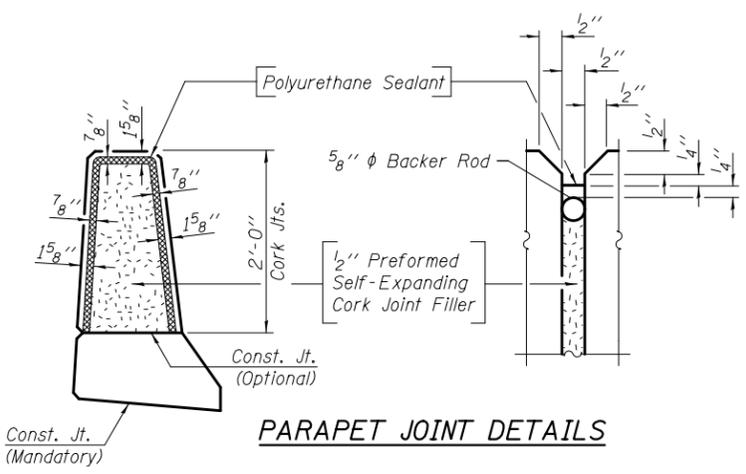
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



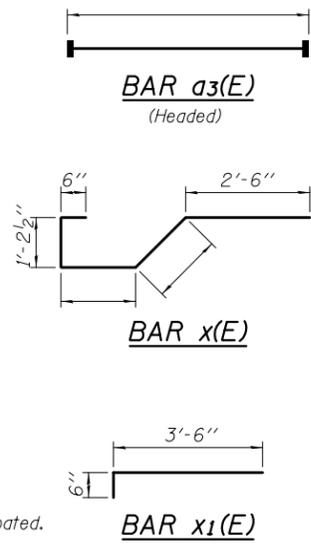
INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"



PARAPET JOINT DETAILS



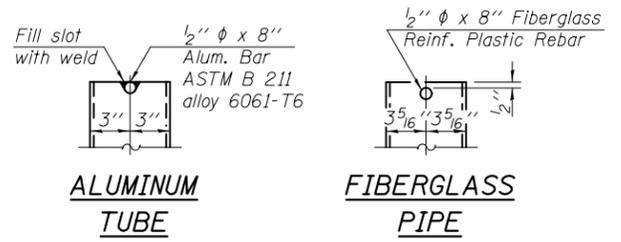
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		
a1(E)		#5		
a2(E)		#6	6'-6"	
a3(E)				
a4(E)				
a5(E)				
b(E)		#5		
b1(E)		#5		
b2(E)				
d(E)		#5	5'-7"	
d1(E)		#5		
e(E)		#4		
e1(E)		#8		
e2(E)		#4		
x(E)		#5		
x1(E)		#5	4'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

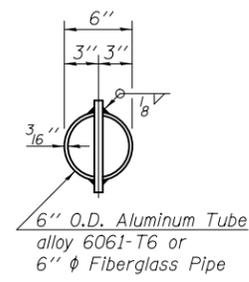
SECTION THRU PARAPET

**For insert locations See sheet of

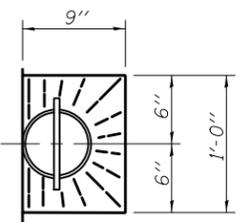


ALUMINUM TUBE

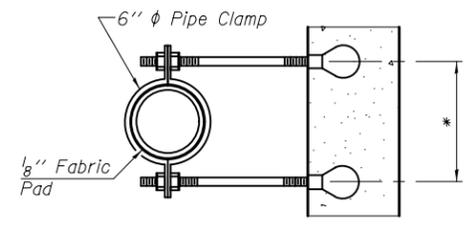
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

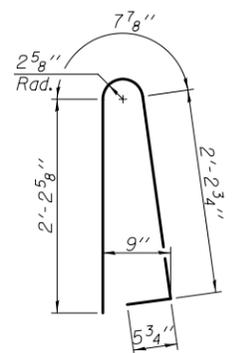


TOP PLAN

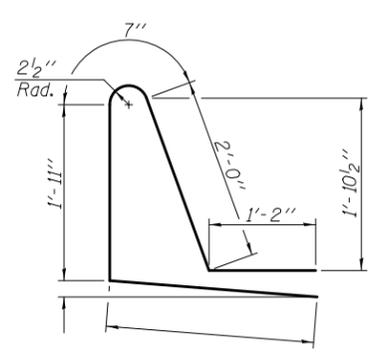


SECTION A-A

*Dimension as required by Pipe Clamp



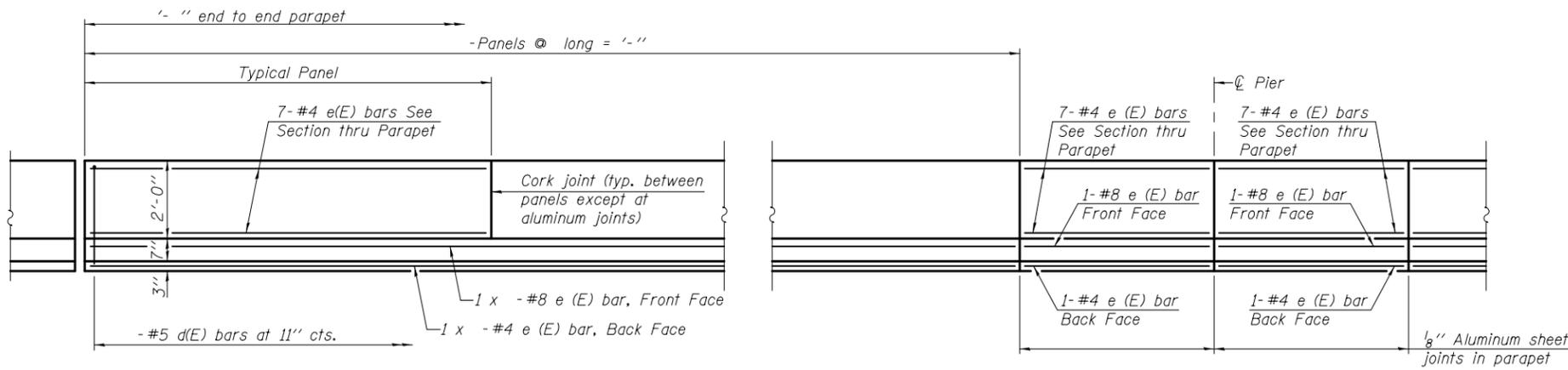
BAR d(E)



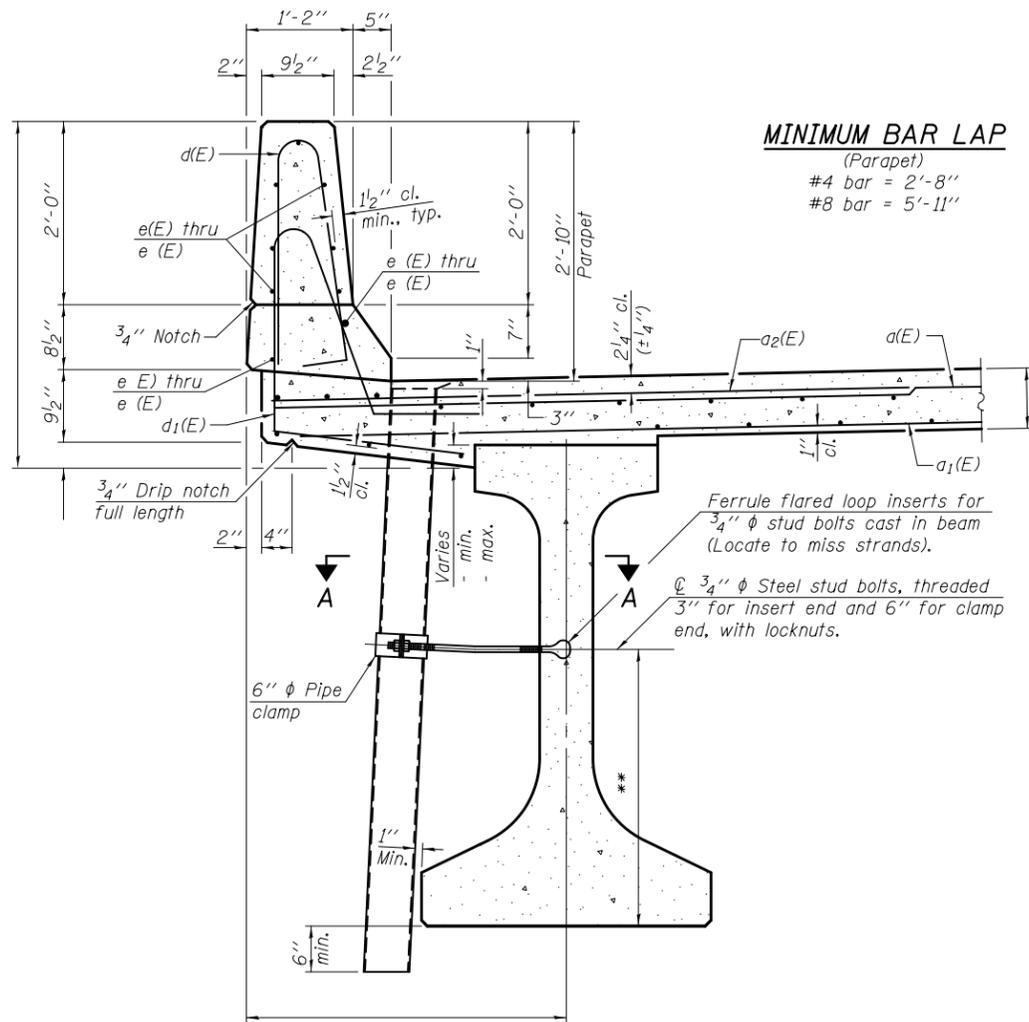
BAR d1(E)

SDE-IL6372N-1 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
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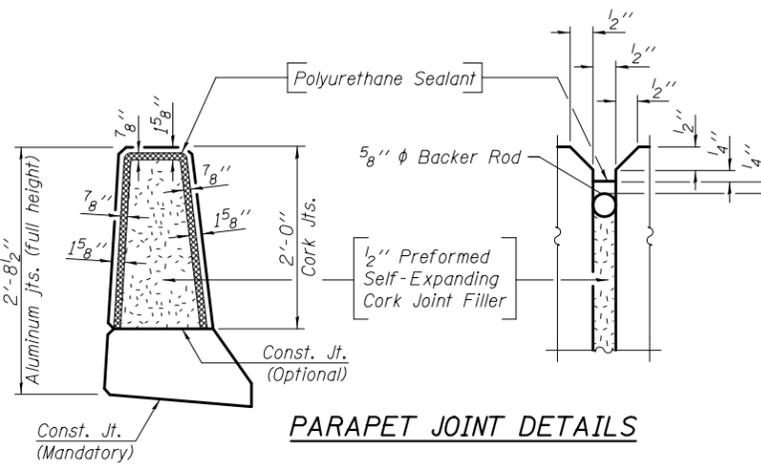


INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



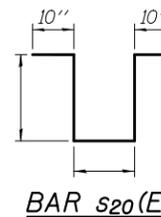
PARAPET JOINT DETAILS

Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

BAR a3(E)
(Headed)

BAR x1(E)

BAR x(E)



BAR s20(E)

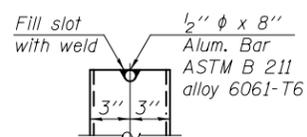
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#5		—
a1(E)		#5		—
a2(E)		#6	6'-6"	—
a3(E)				—
a4(E)				—
a5(E)				—
b(E)		#5		—
b1(E)				—
b2(E)		#5		—
d(E)		#5	5'-7"	⌋
d1(E)		#5		⌋
e(E)		#4		—
m20(E)		#6		—
m21(E)		#6		—
m22(E)		#5	4'-0"	—
s20(E)		#5		⌋
x(E)		#5		⌋
x1(E)		#5	4'-0"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	
Concrete Superstructure			Cu. Yds.	

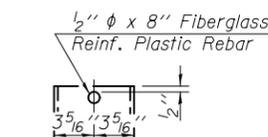
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

SECTION THRU PARAPET

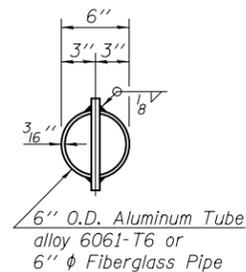
**For insert locations See sheet of



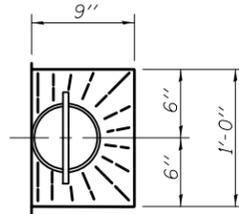
ALUMINUM TUBE



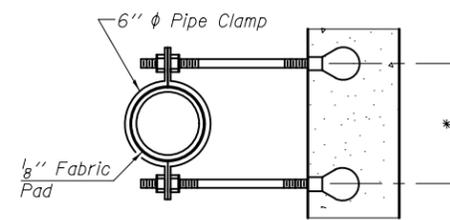
FIBERGLASS PIPE



TOP PLAN
(Showing Aluminum Tube)

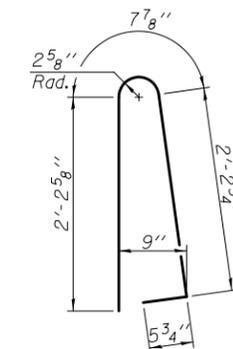


TOP PLAN

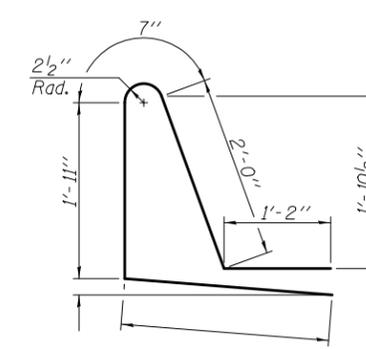


SECTION A-A

*Dimension as required by Pipe Clamp



BAR d(E)



BAR d1(E)

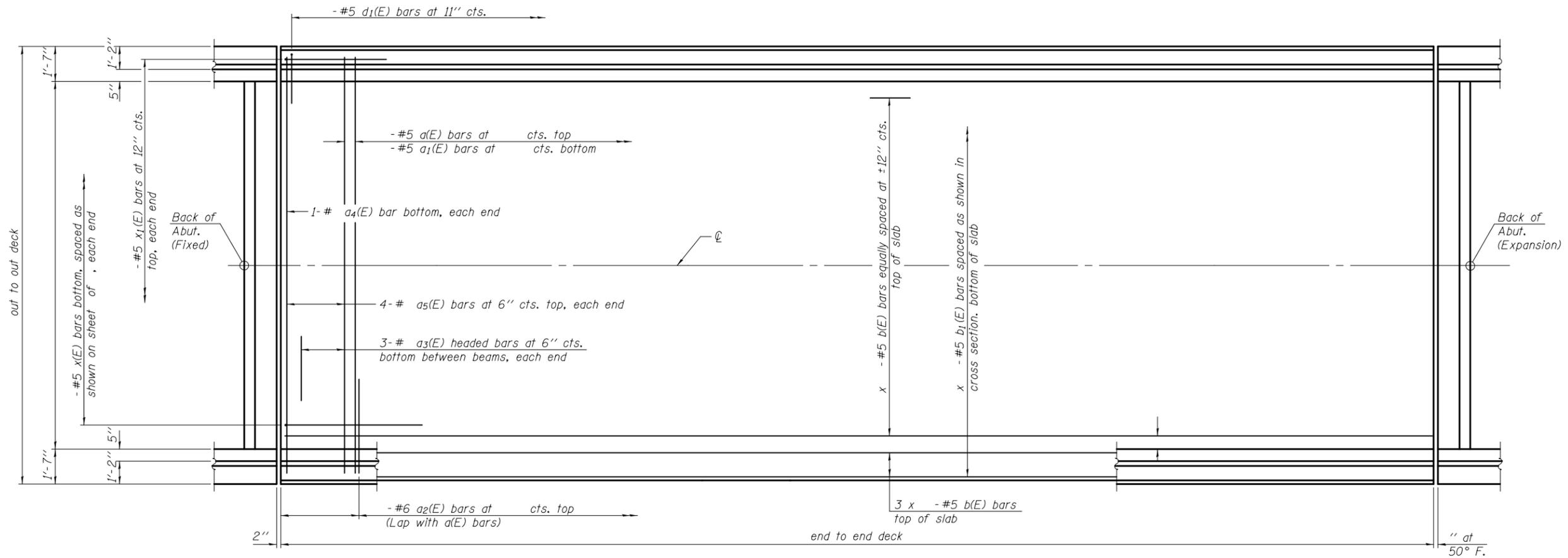
SDE-IL6372N-2 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO.

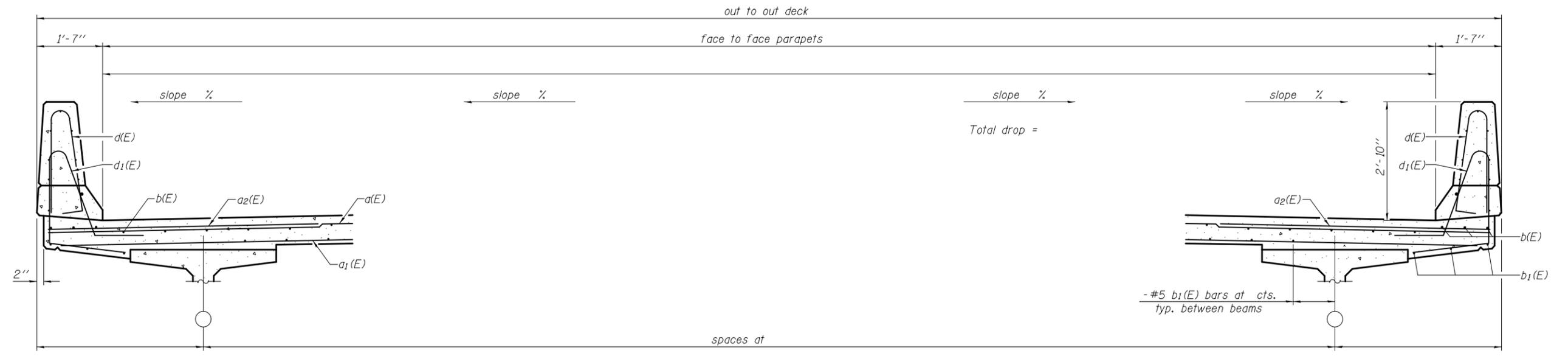
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking)

SE-BT6372-1-0 10-7-2016

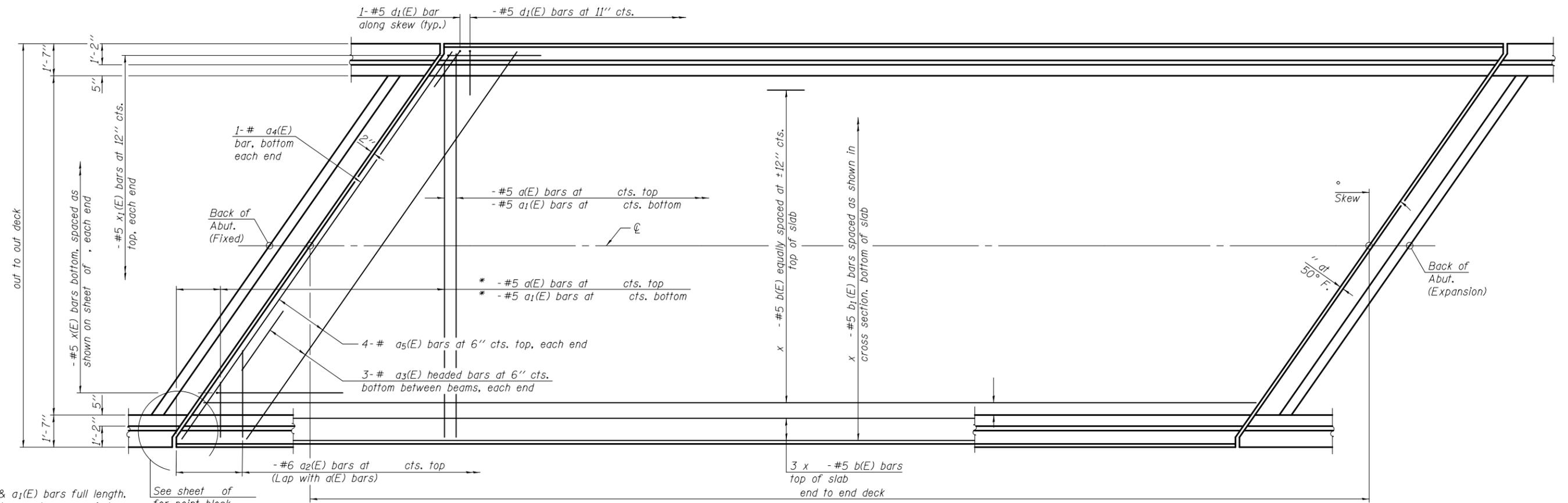
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

See sheet of for point block details, typ.

PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP

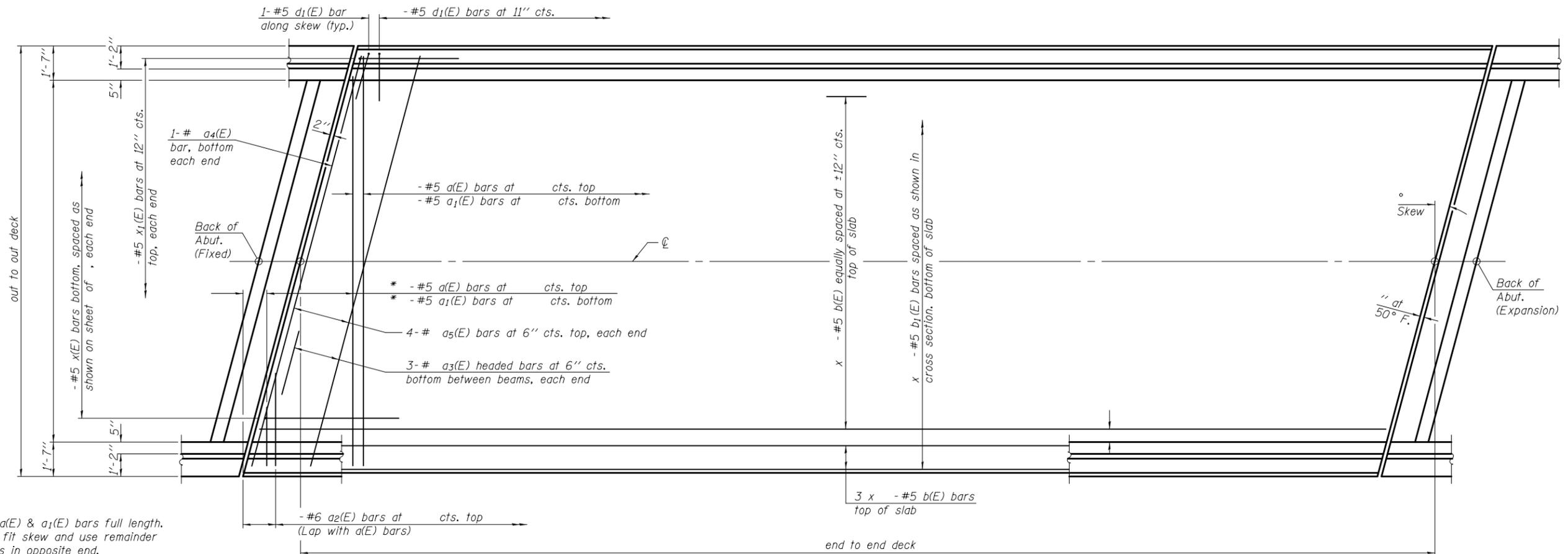
#5 bar = 3'-6"



CROSS SECTION
(Looking)

SE-BT6372-1-L(>30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		PLOT DATE =	CHECKED -								



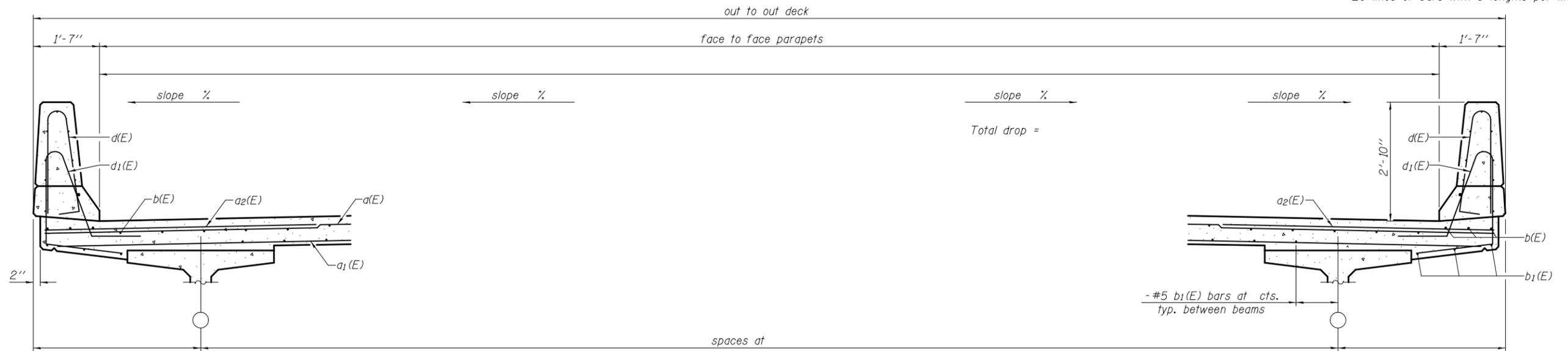
* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP

#5 bar = 3'-6"

PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking)

SE-BT6372-1-L(30°) 10-7-2016

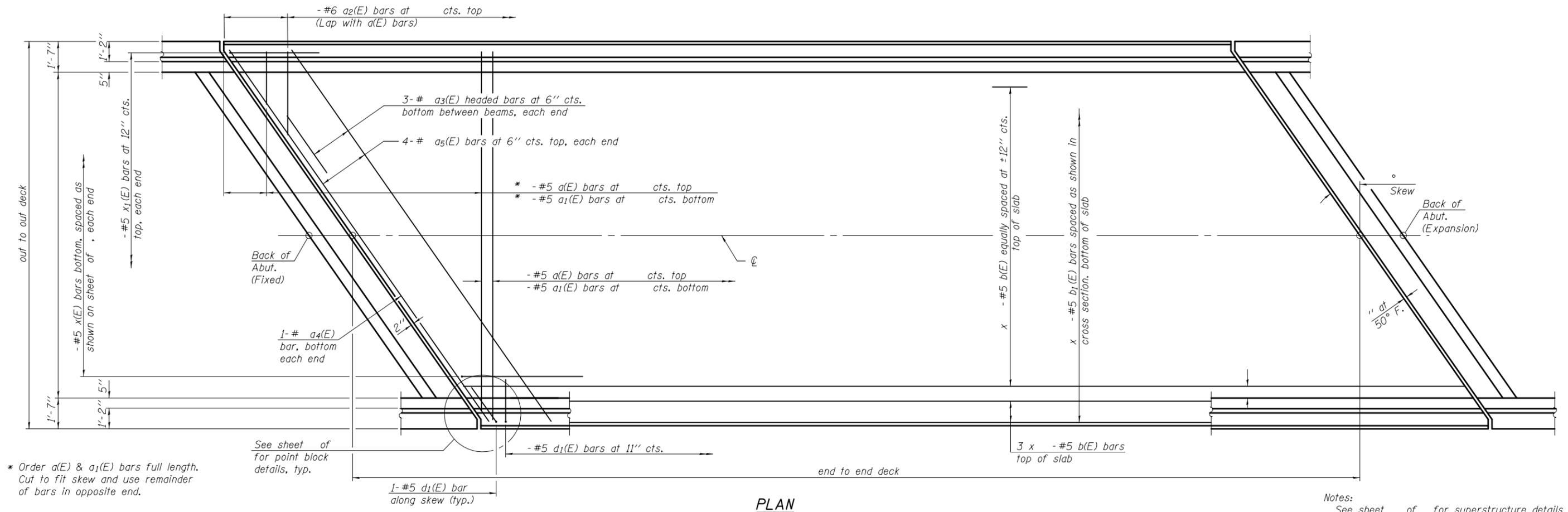
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



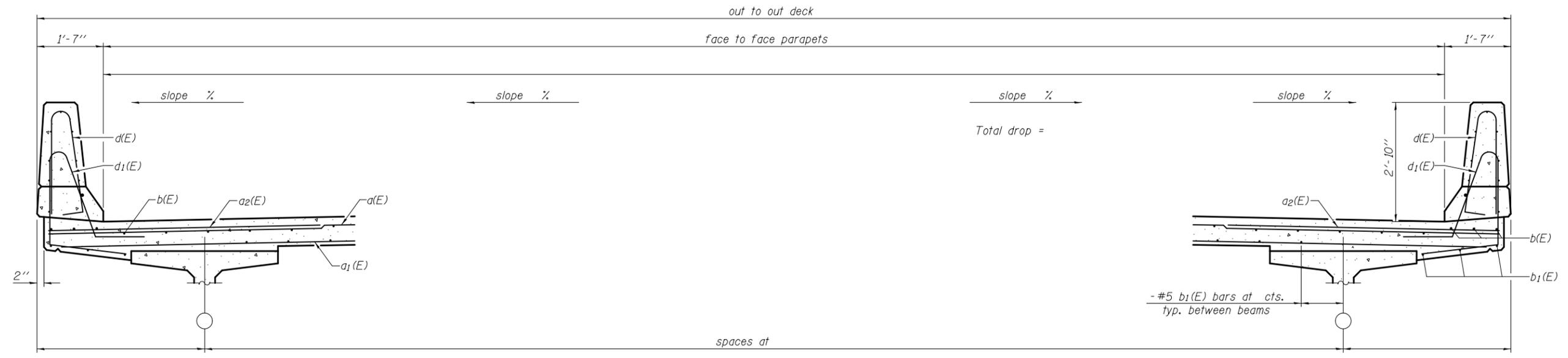
* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

See sheet of for point block details, typ.

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP
#5 bar = 3'-6"

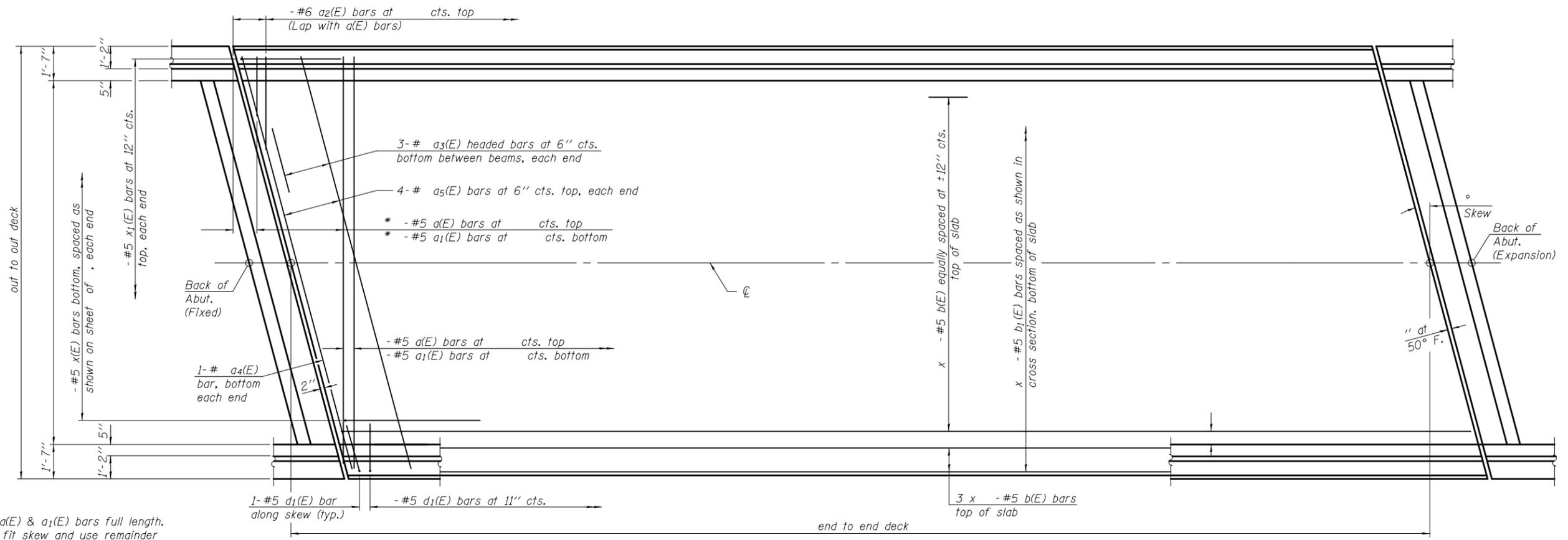
PLAN



CROSS SECTION
(Looking)

SE-BT6372-1-R(>30°) 10-7-2016

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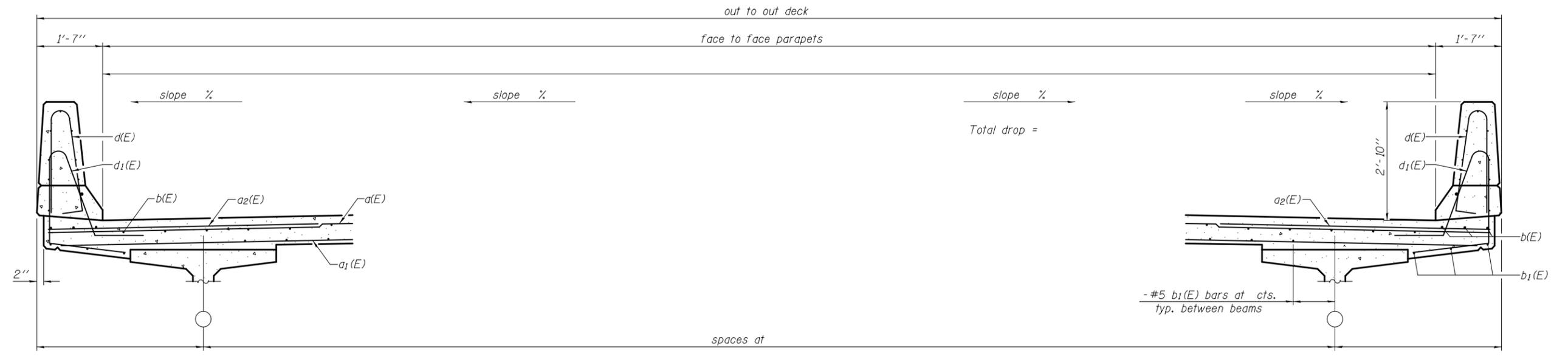


* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PLAN

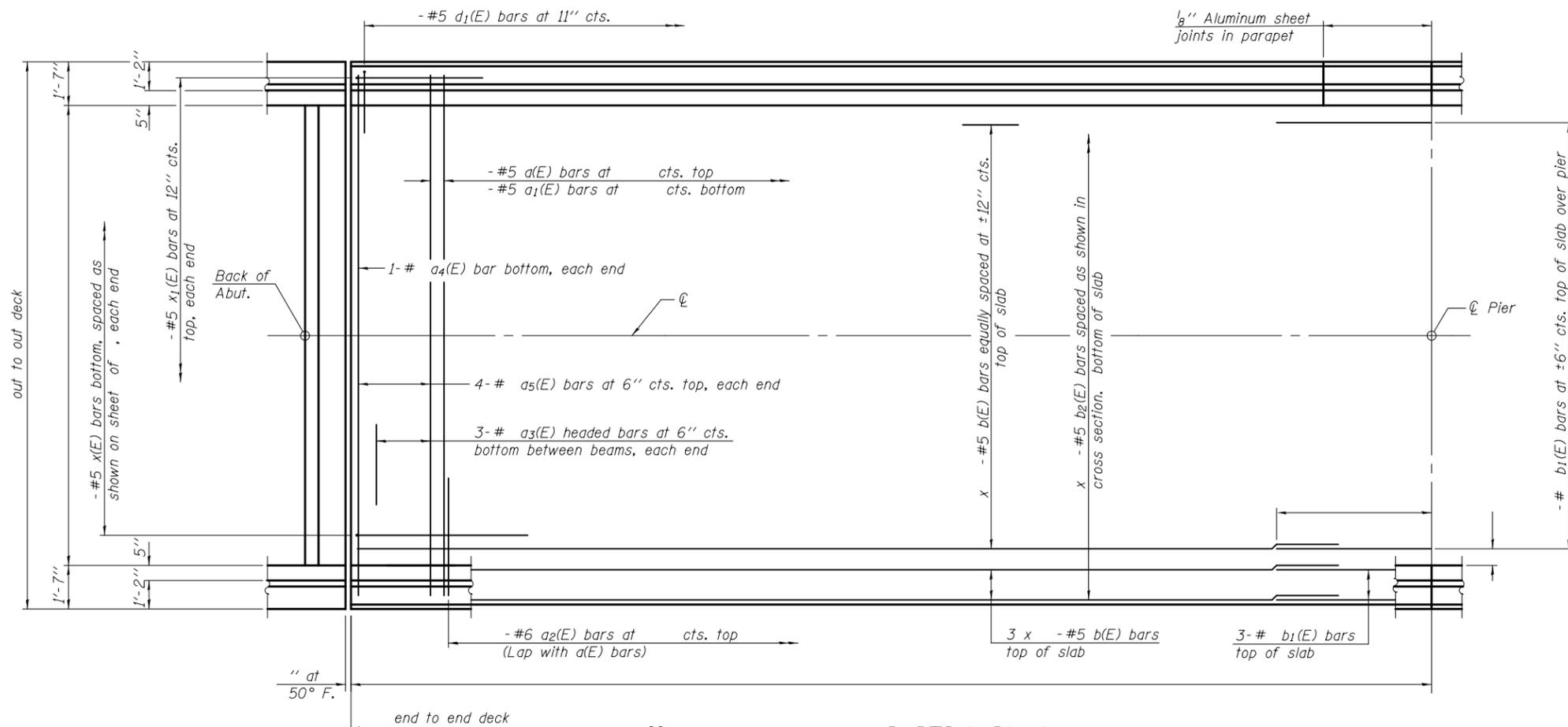
Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking)

SE-BT6372-1-R(30°) 10-7-2016

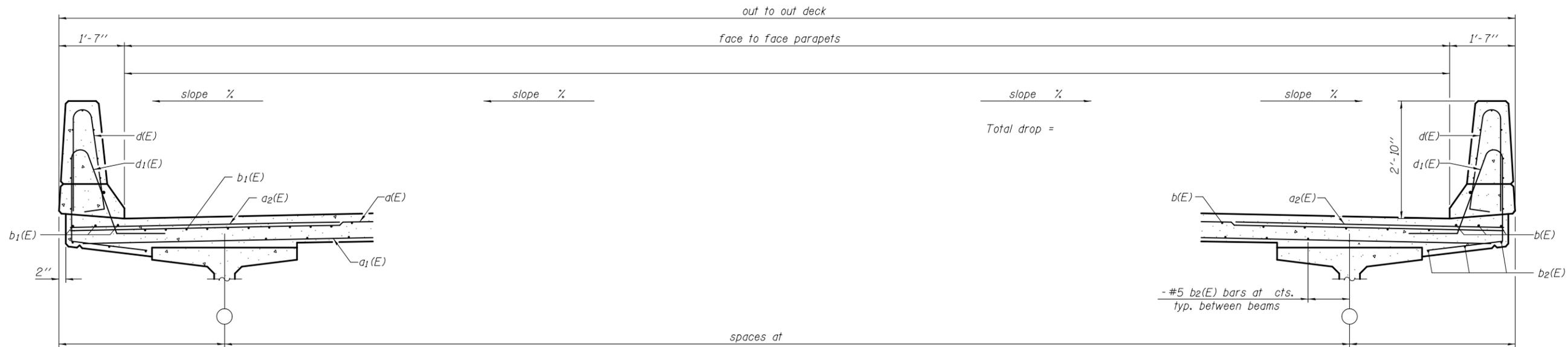
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		PLOT SCALE =	REVISD -								
		PLOT DATE =	CHECKED -								



PARTIAL PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

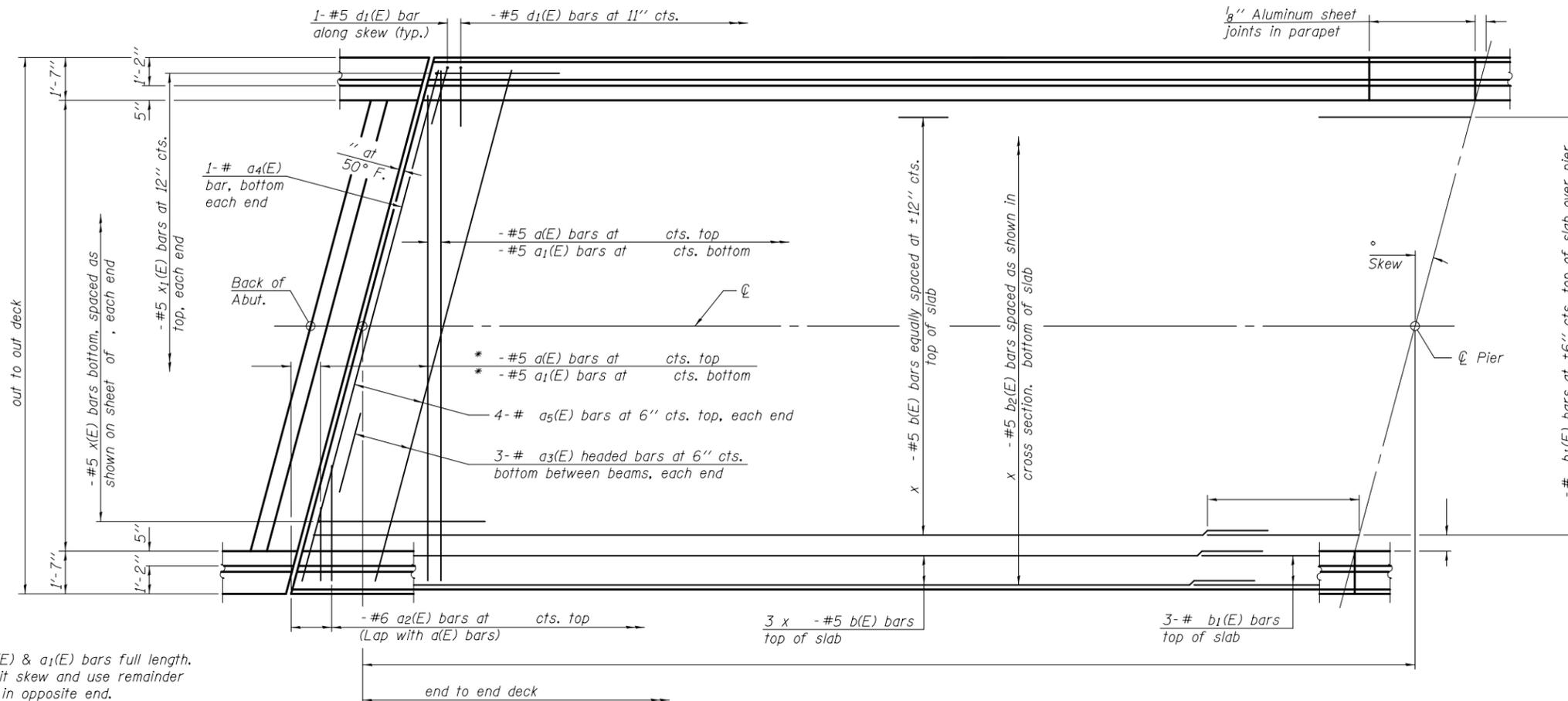
SE-BT6372-2-0 10-7-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

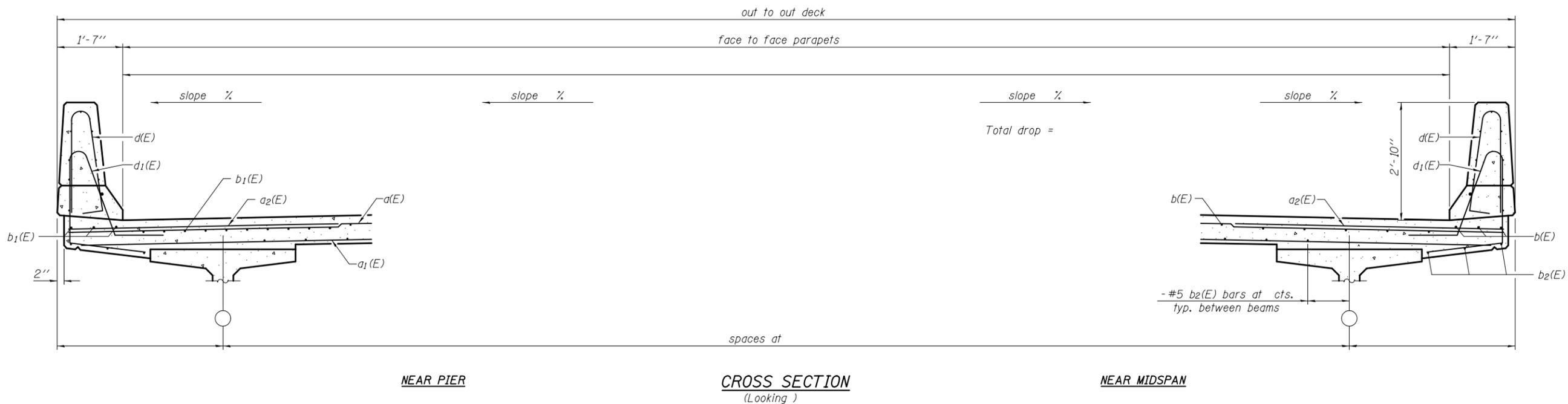


PARTIAL PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



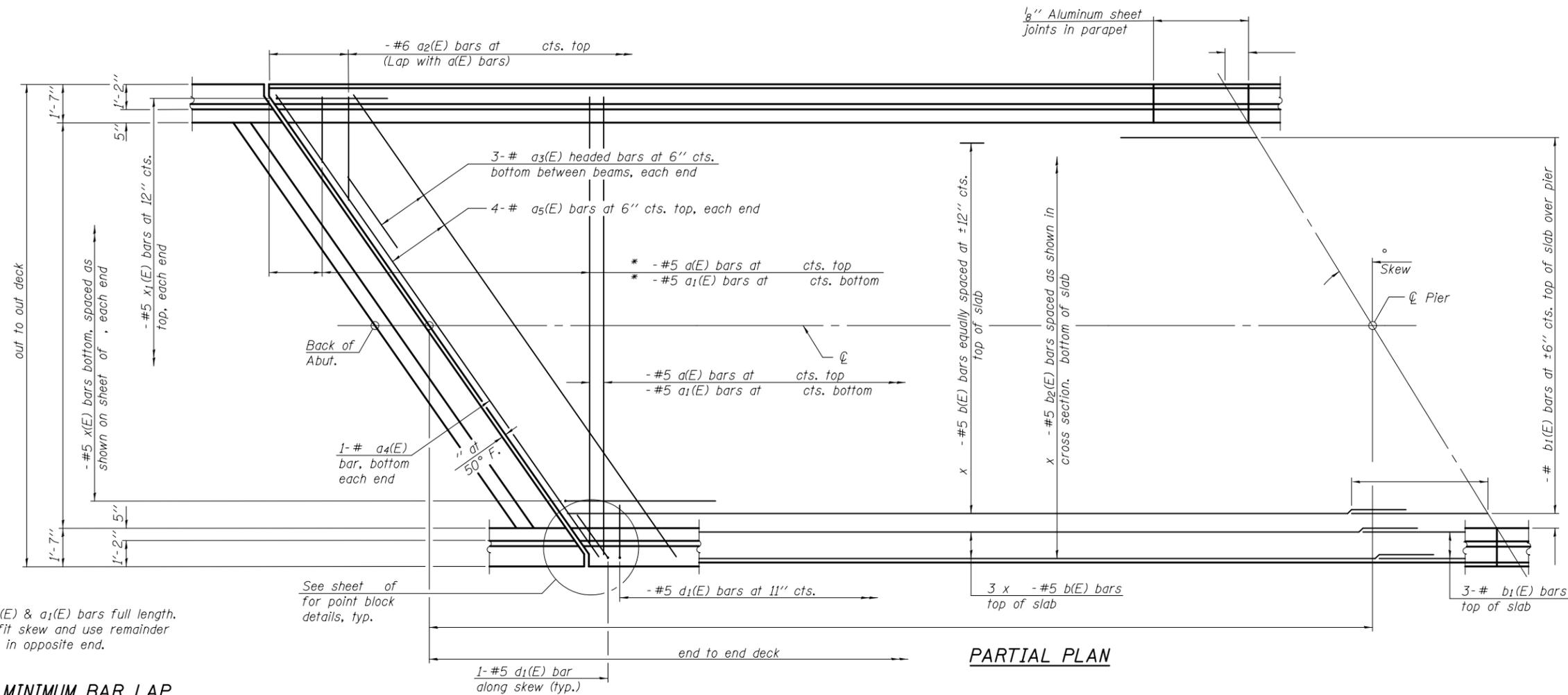
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-BT6372-2-L(30°) 10-7-2016

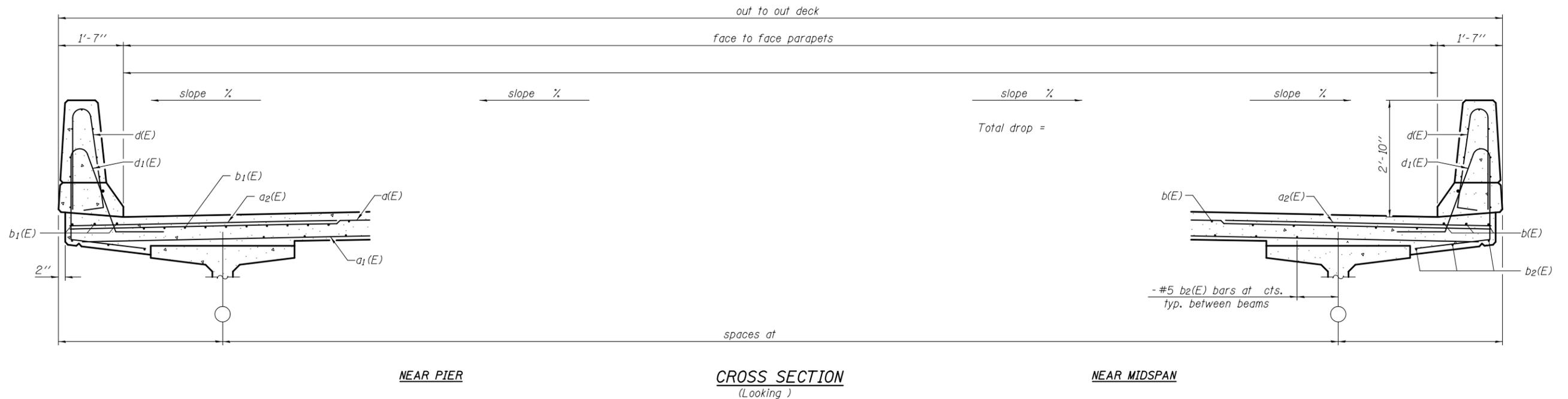
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		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
		PLOT SCALE =	REVISD -								
		PLOT DATE =	CHECKED -								



* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

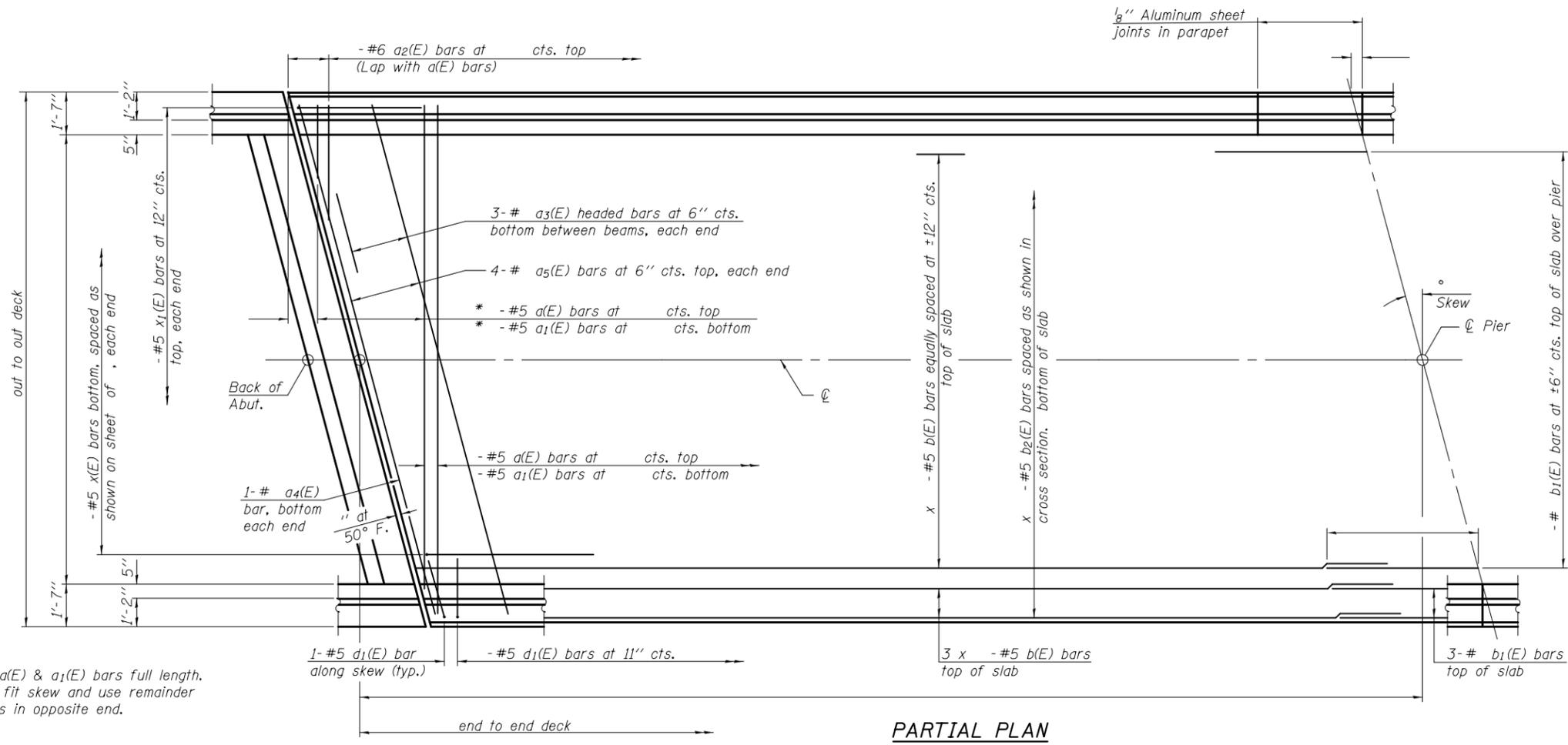
MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



SE-BT6372-2-R(>30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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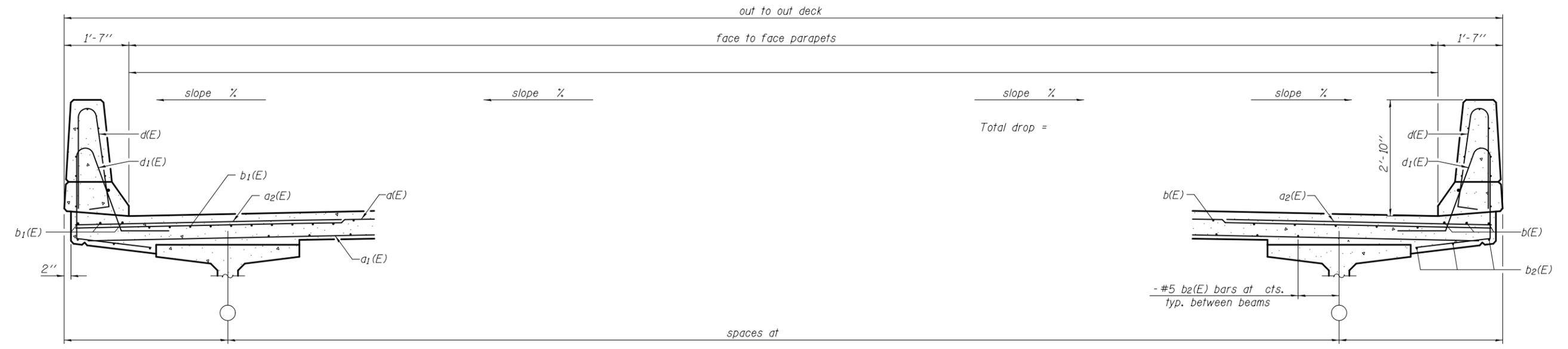


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



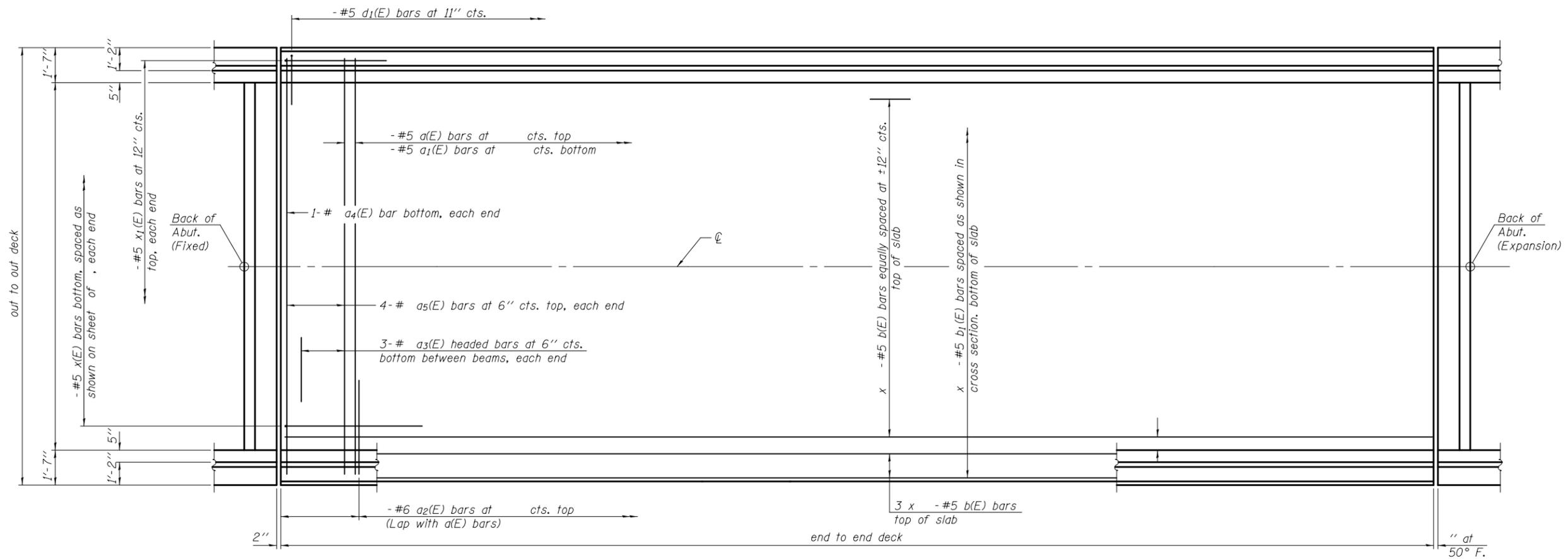
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-BT6372-2-R(30°) 10-7-2016

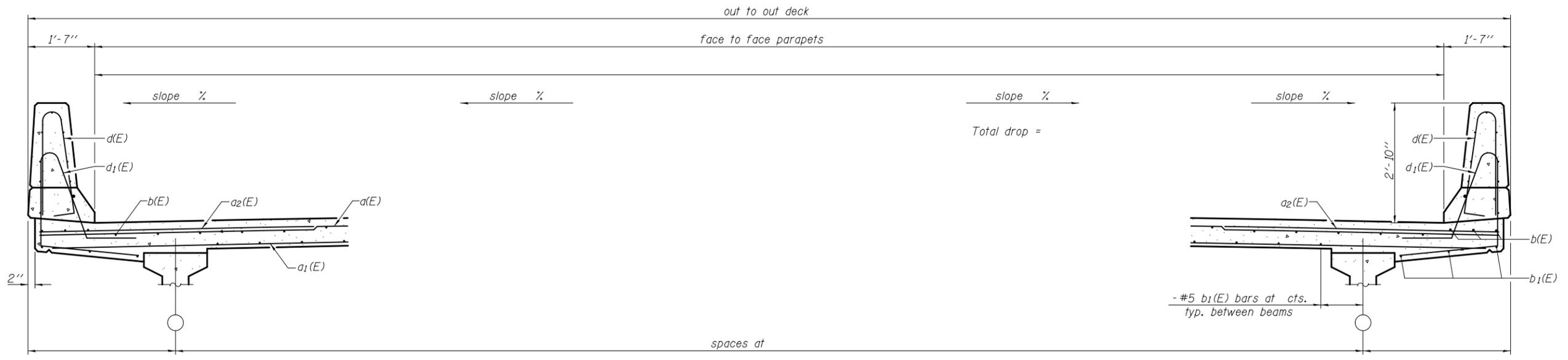
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	PLOT DATE =	DRAWN -	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED -	REVISED -								



PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking)

SE-I3654-1-0

10-7-2016

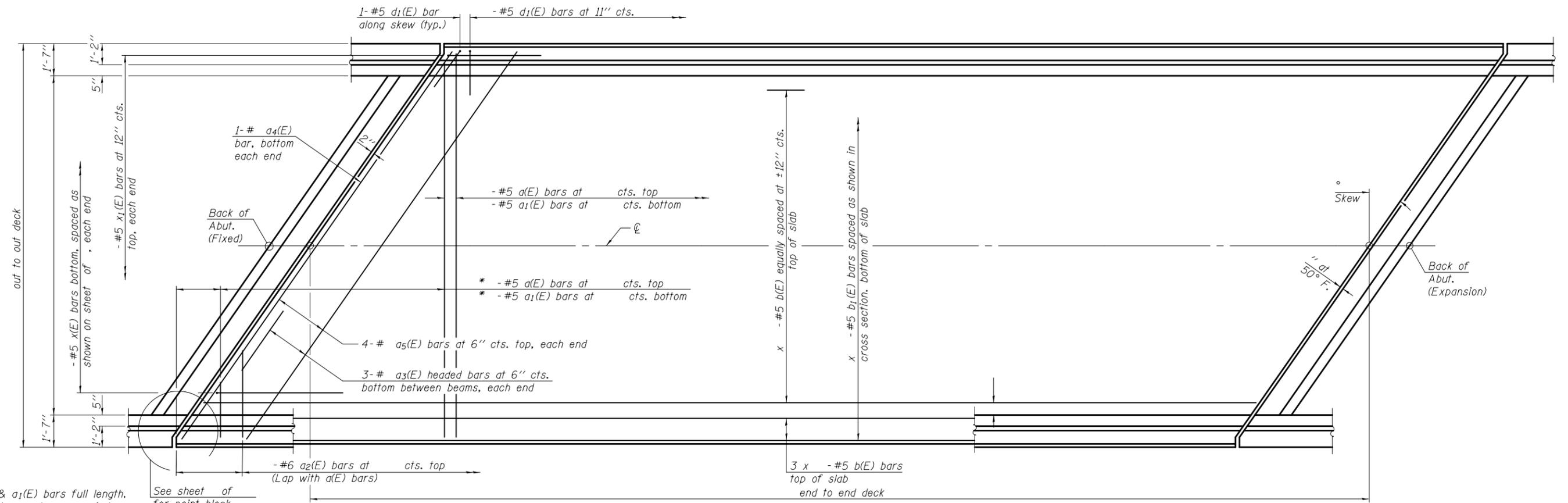
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

See sheet of for point block details, typ.

PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP

#5 bar = 3'-6"



CROSS SECTION
(Looking)

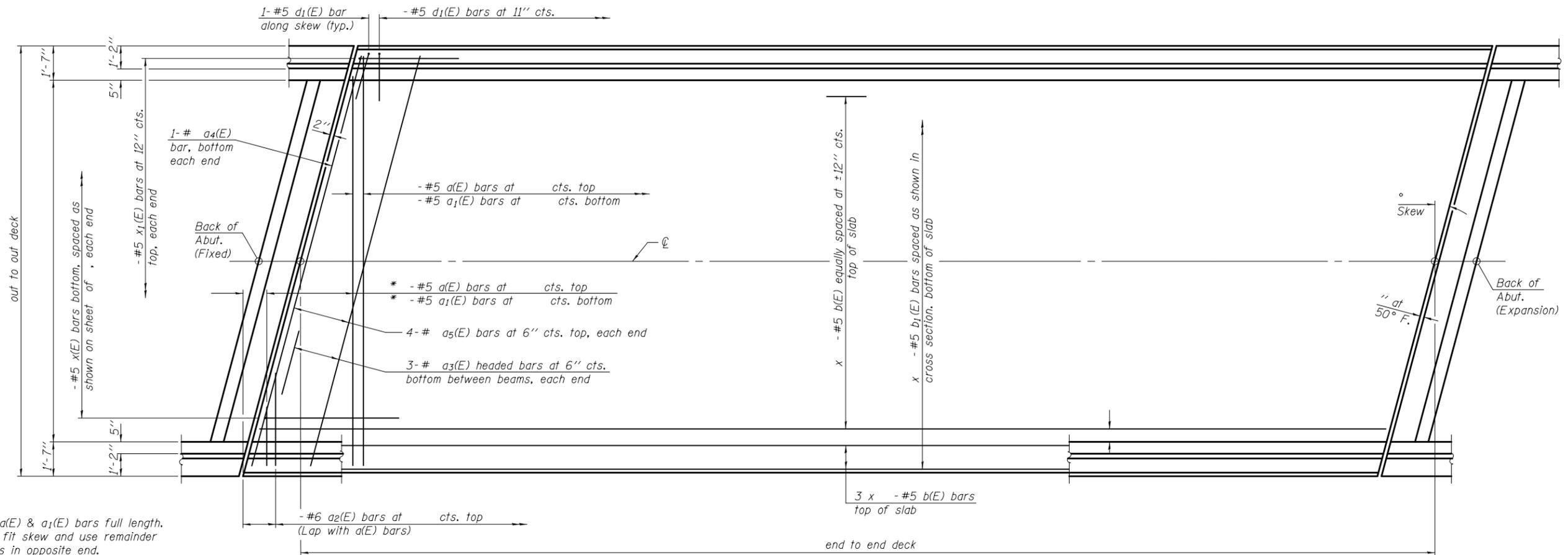
SE-I3654-1-L(>30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



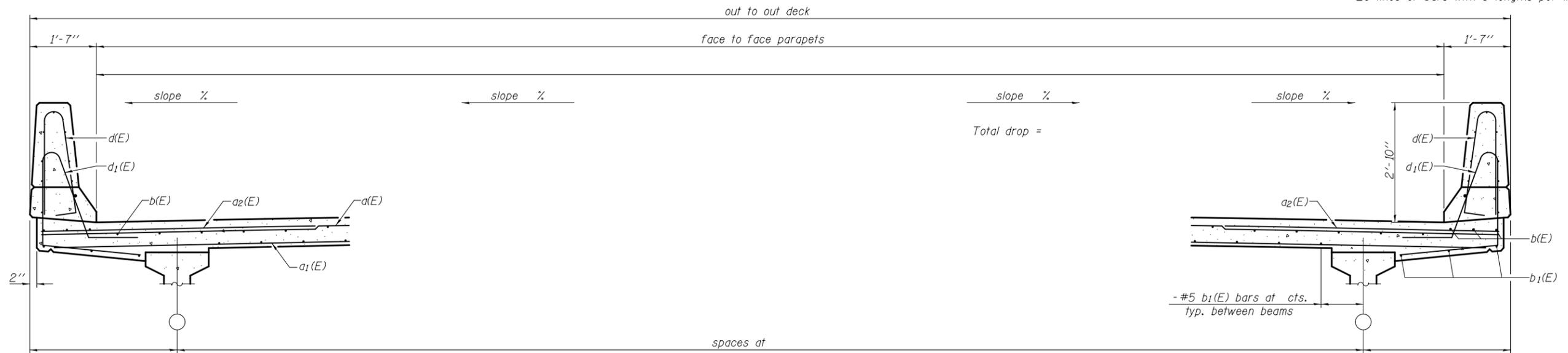
* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP

#5 bar = 3'-6"

PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking)

SE-I3654-1-L(30°) 10-7-2016

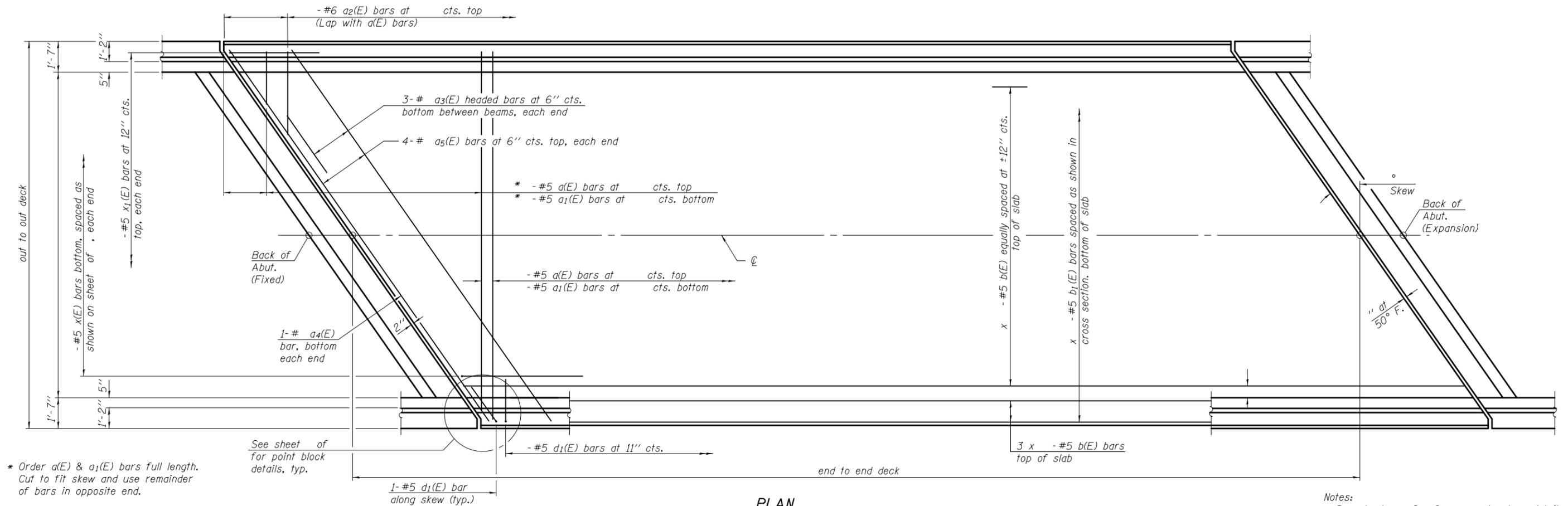
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STATE OF ILLINOIS
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SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



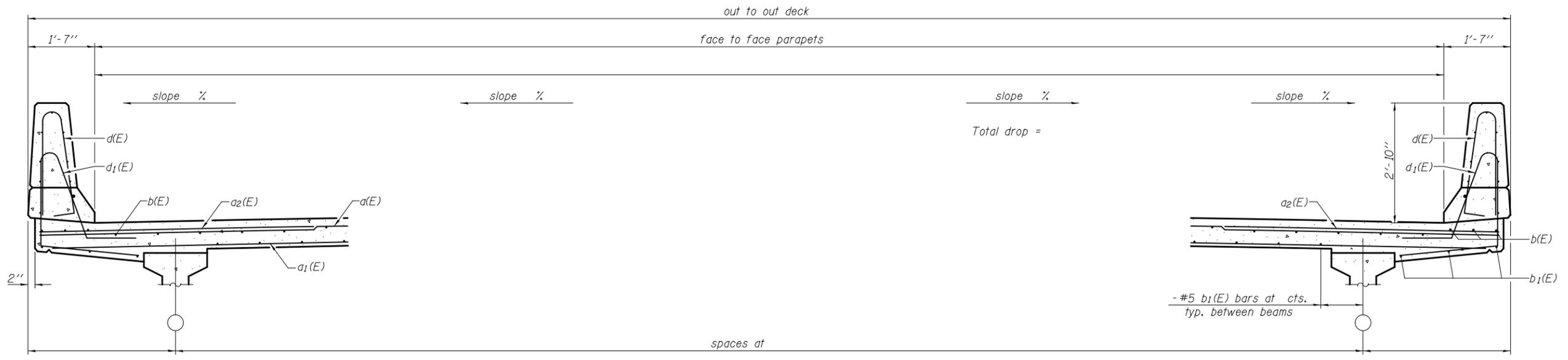
* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

See sheet of for point block details, typ.

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP
#5 bar = 3'-6"

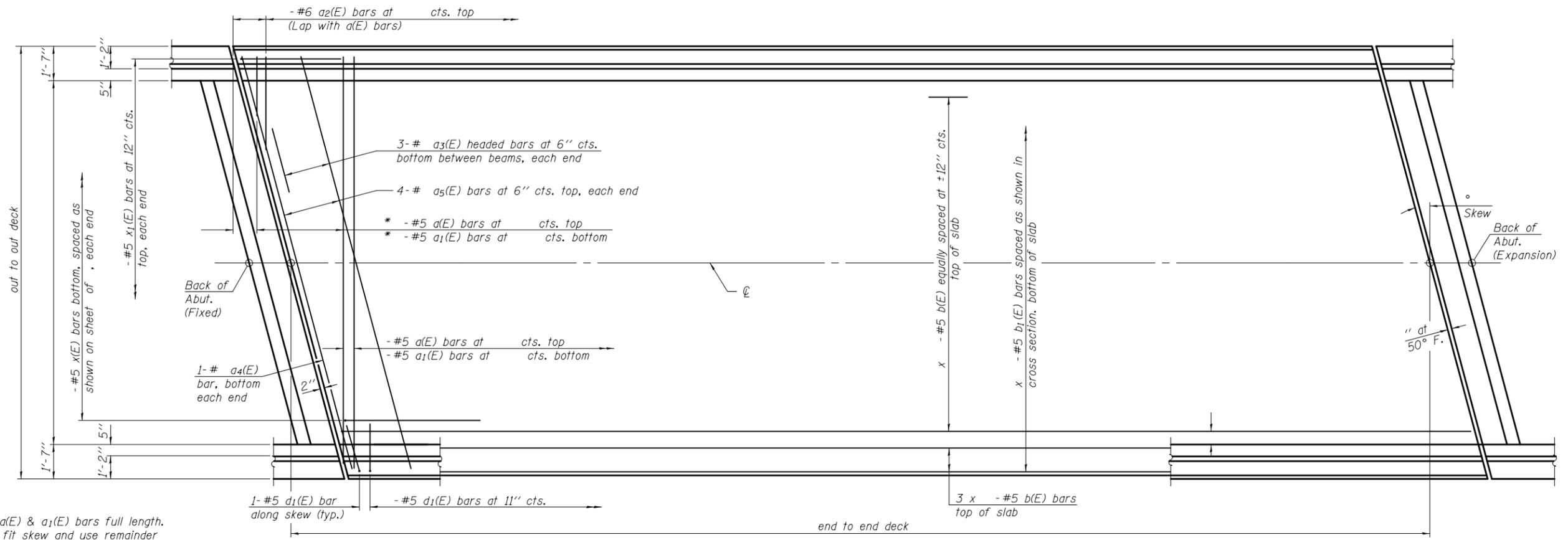
PLAN



CROSS SECTION
(Looking)

SE-I3654-1-R(>30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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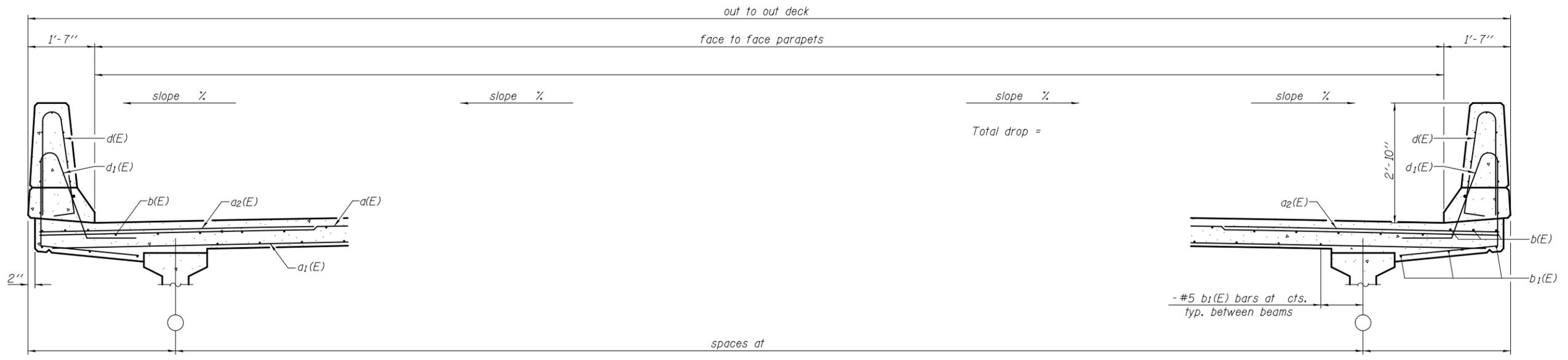


* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PLAN

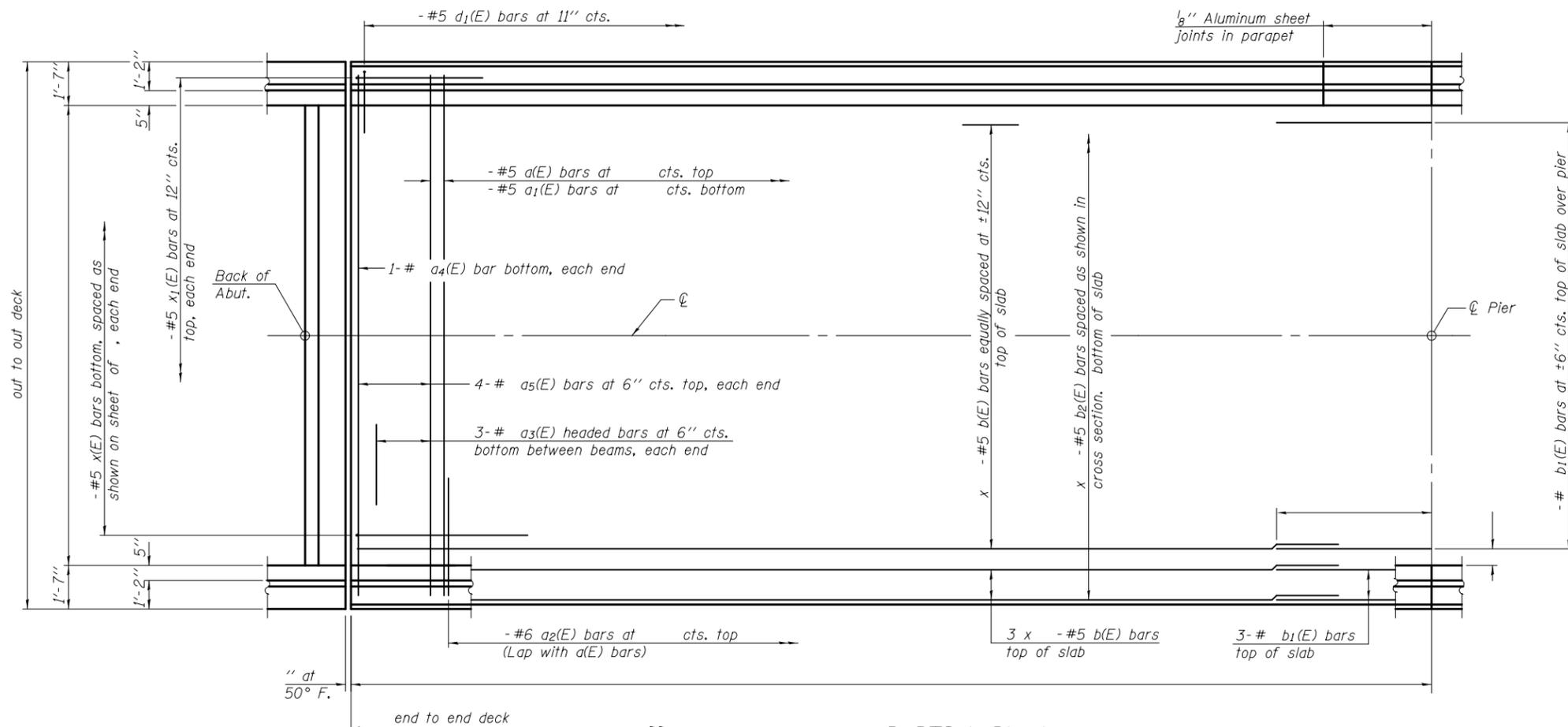
Notes:
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CROSS SECTION
(Looking)

SE-I3654-1-R(30°) 10-7-2016

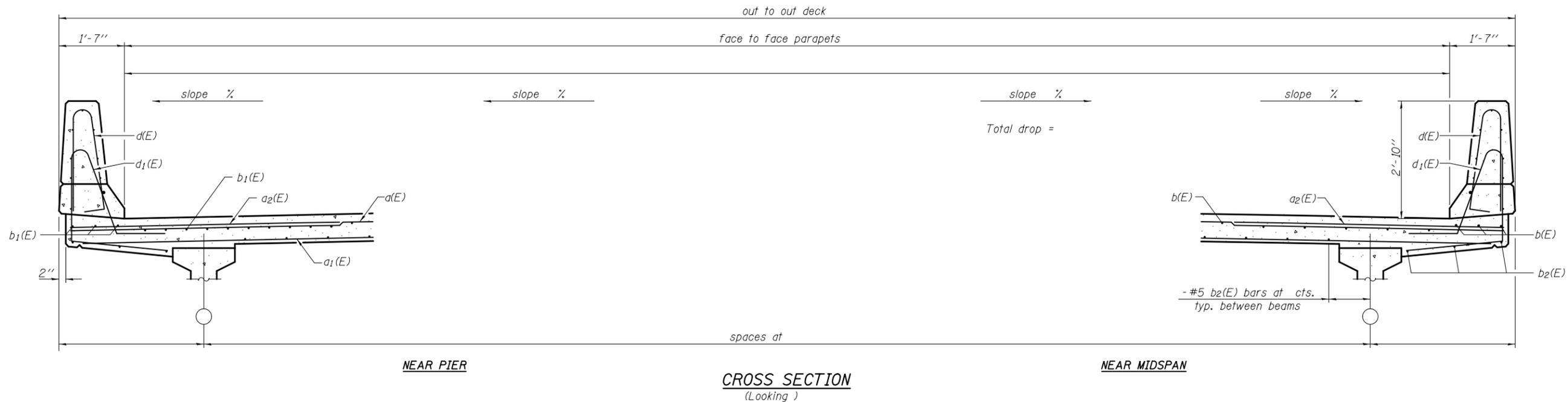
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		CHECKED -	REVISD -								



PARTIAL PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
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CROSS SECTION
(Looking)

SE-I3654-2-0

10-7-2016

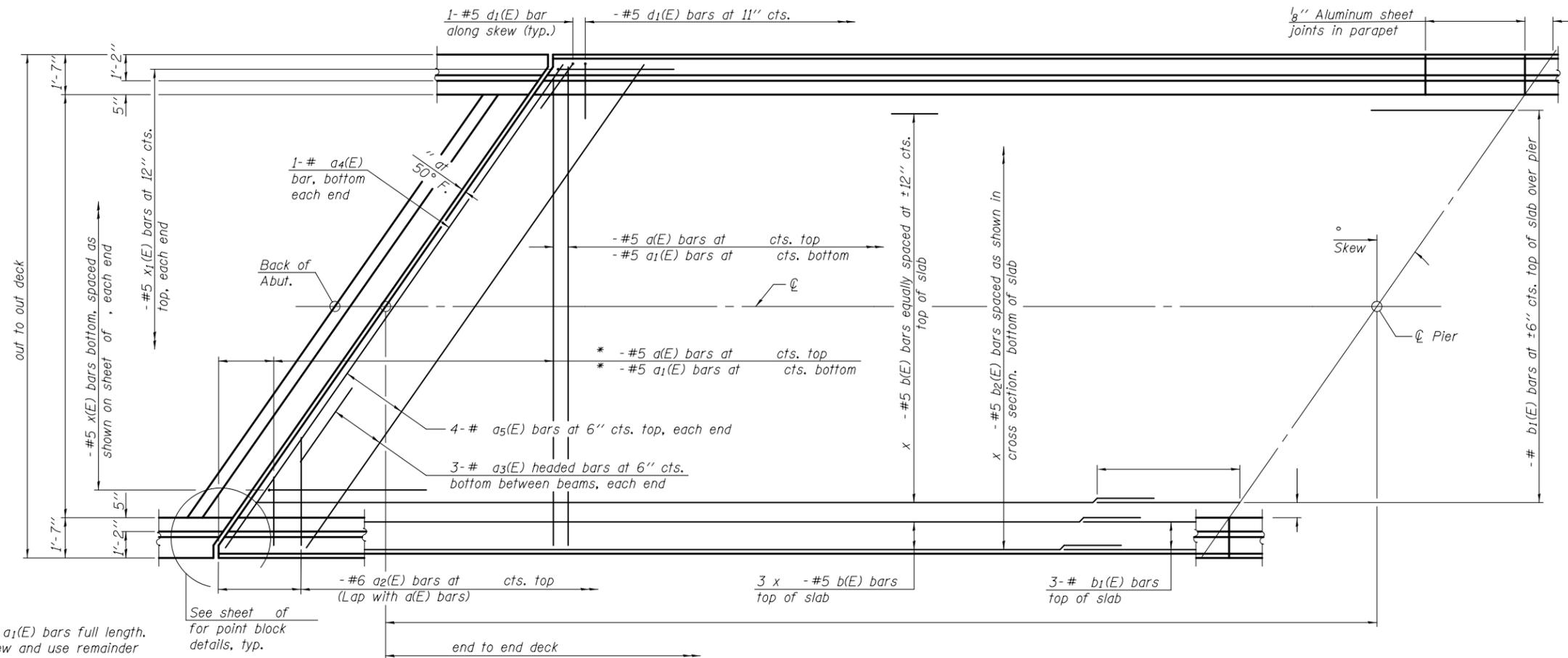
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



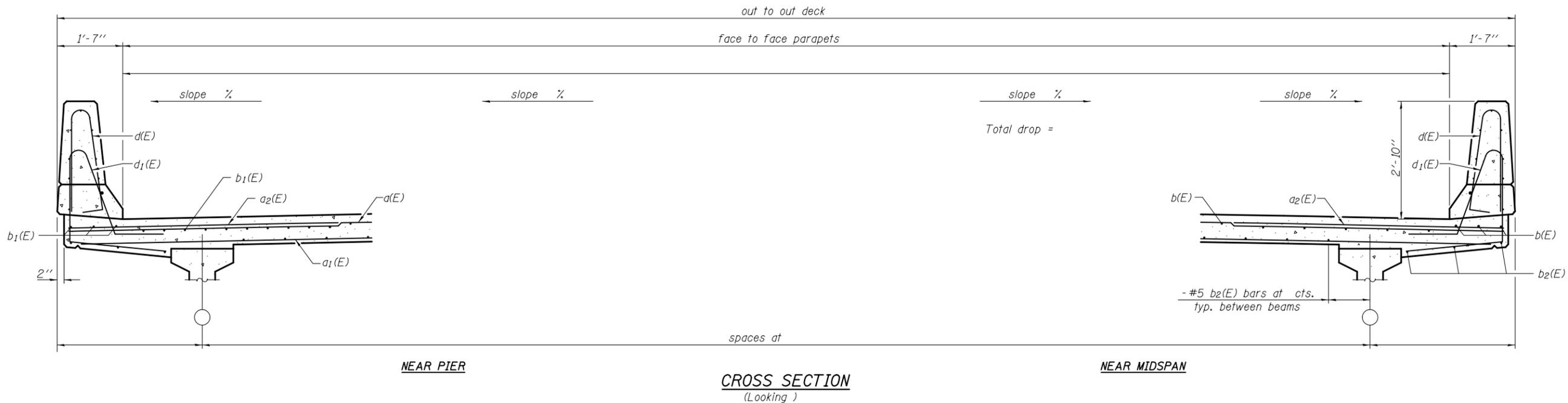
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MINIMUM BAR LAP

#5 bar = 3'-6"

PARTIAL PLAN

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



NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

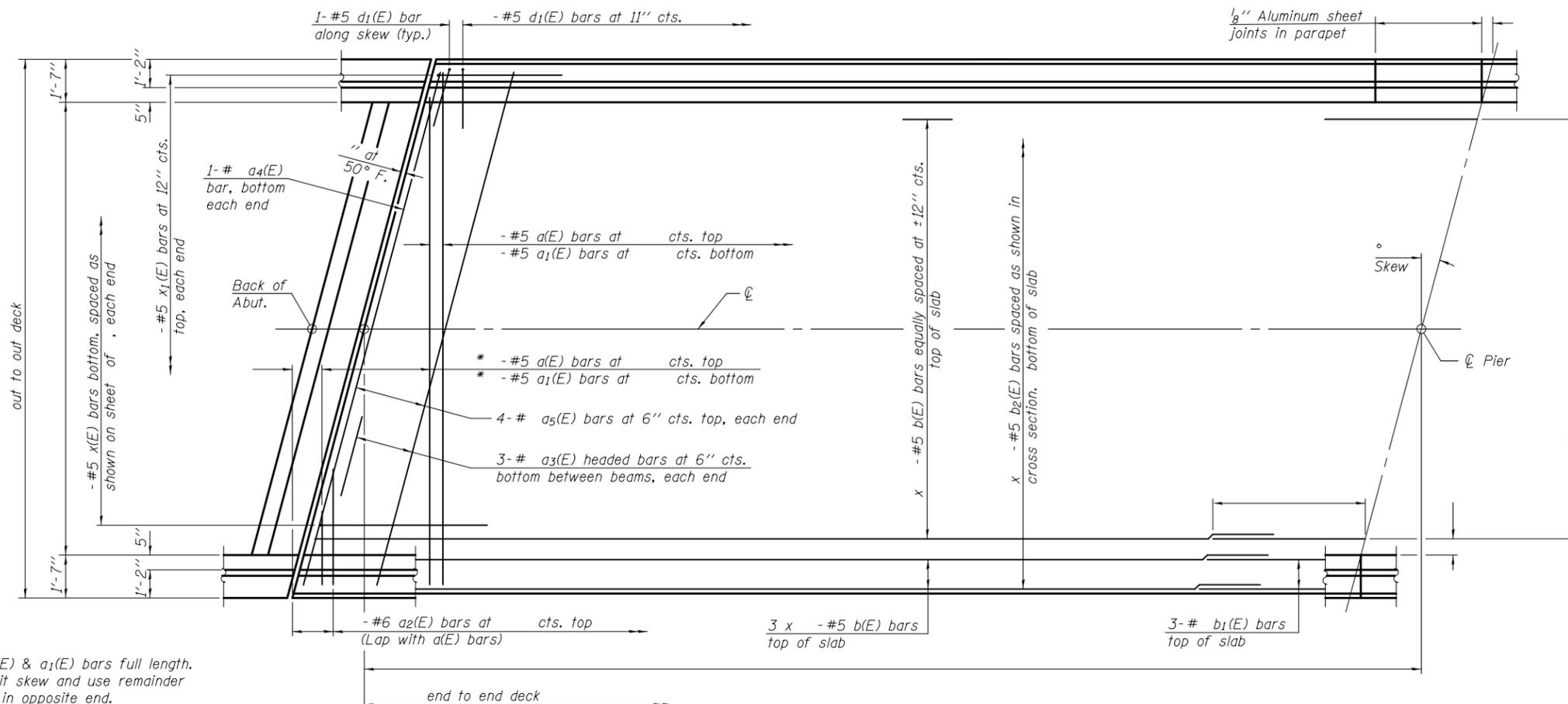
SE-I3654-2-L(>30°) 10-7-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

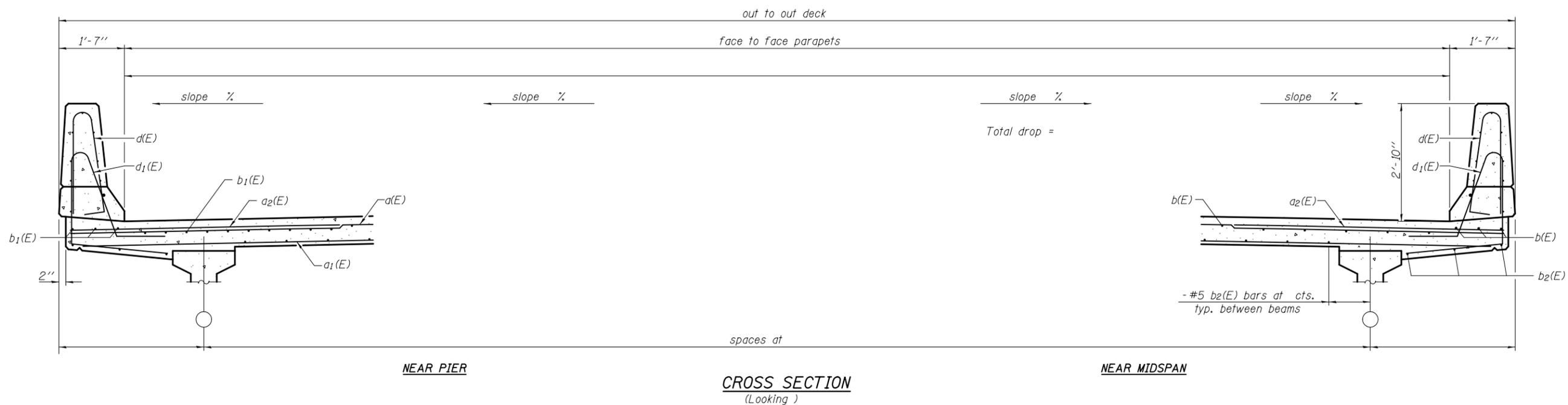


* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

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



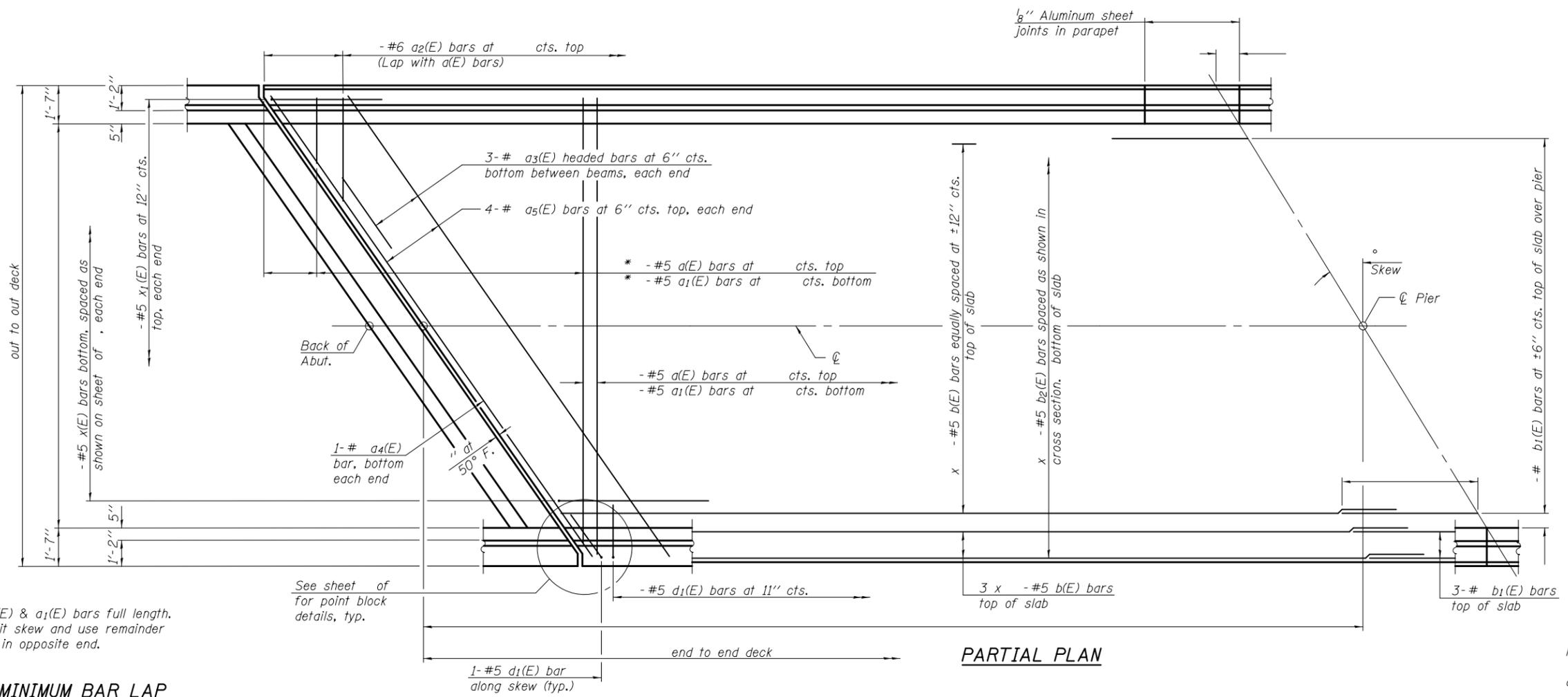
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-I3654-2-L(30°) 10-7-2016

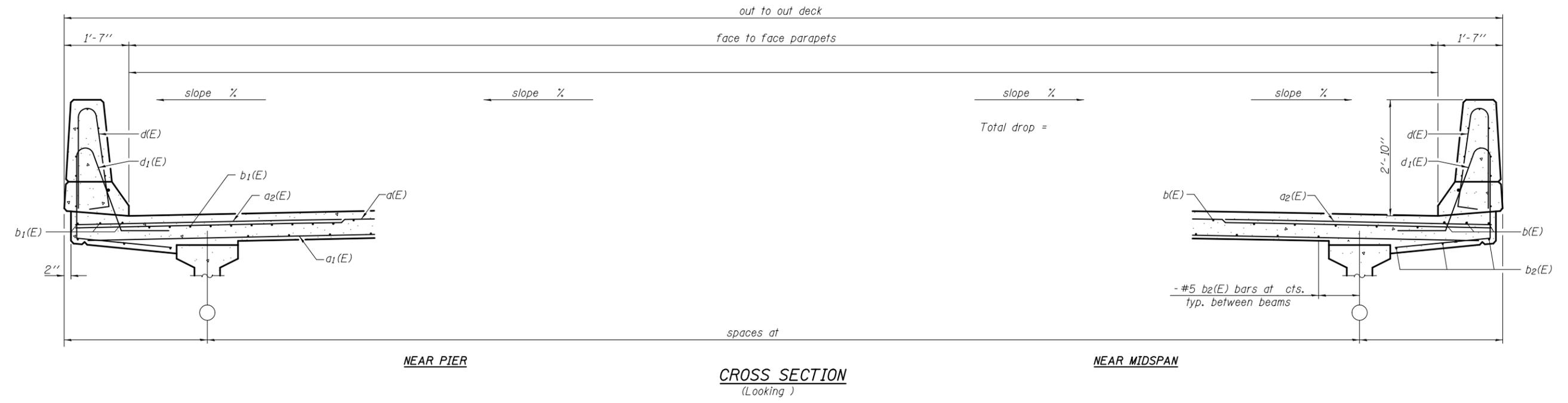
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		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
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* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

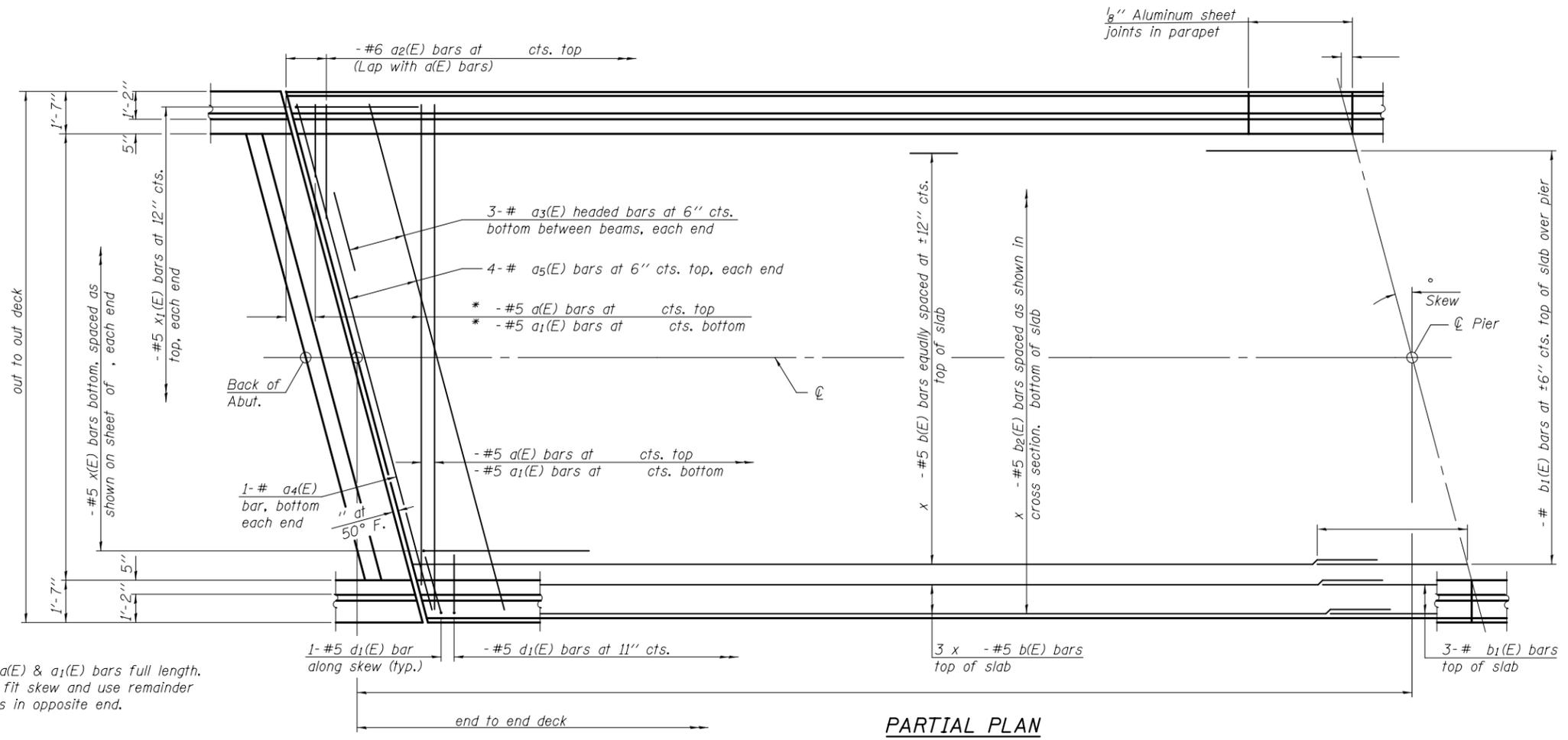
MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
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SE-I3654-2-R(>30°) 10-7-2016

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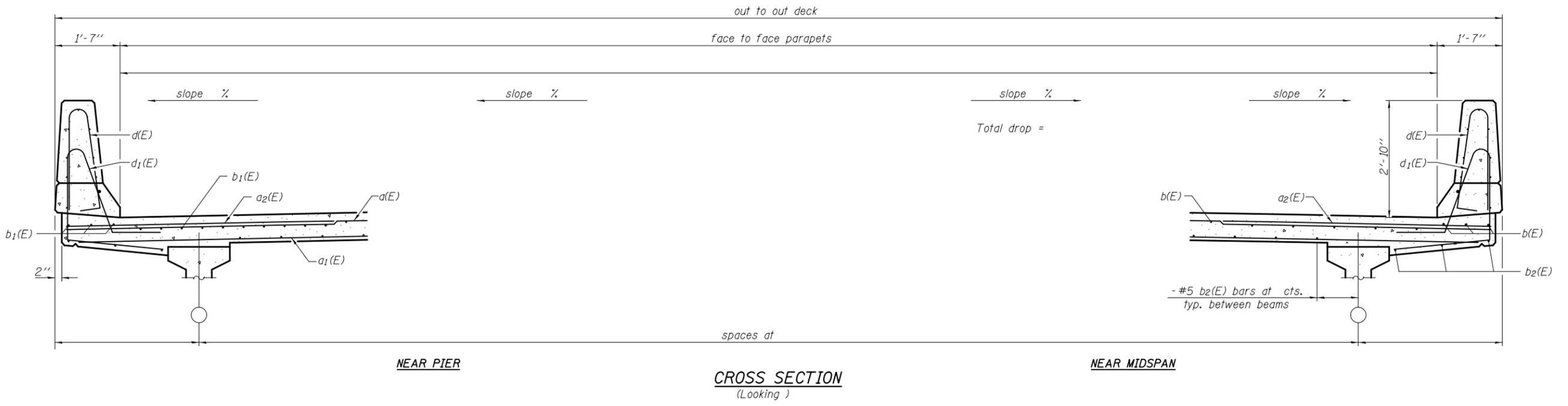


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

Notes:
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NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

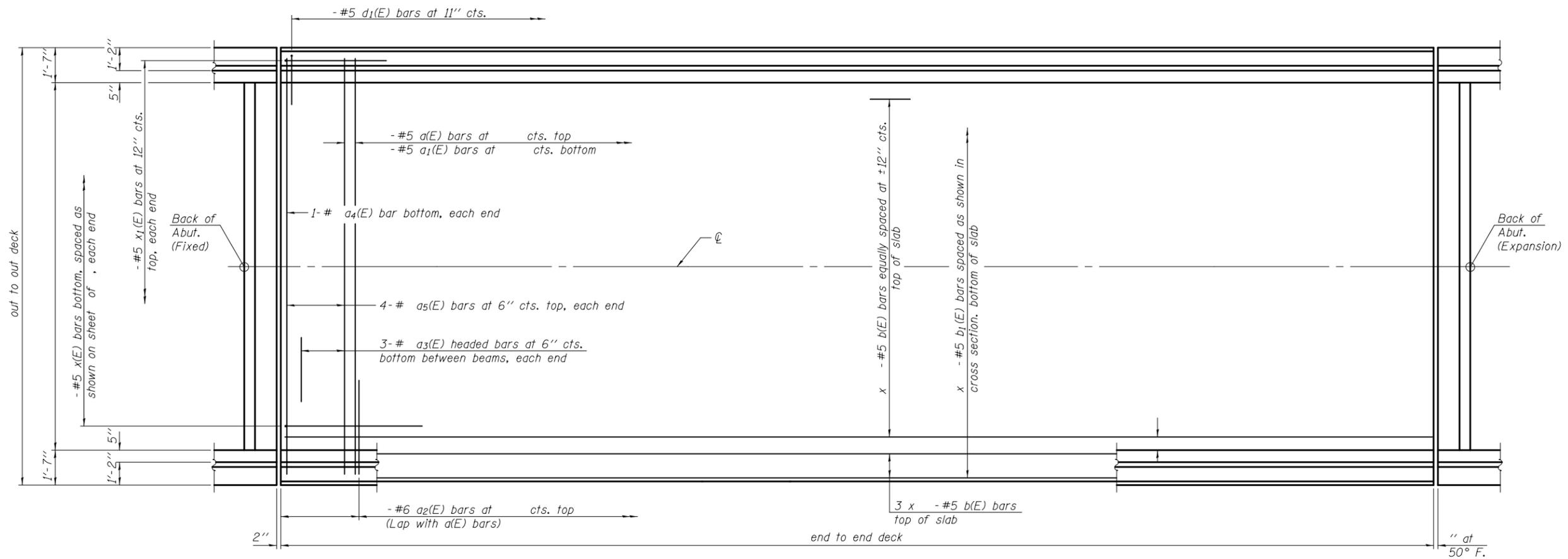
SE-I3654-2-R(30°) 10-7-2016

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

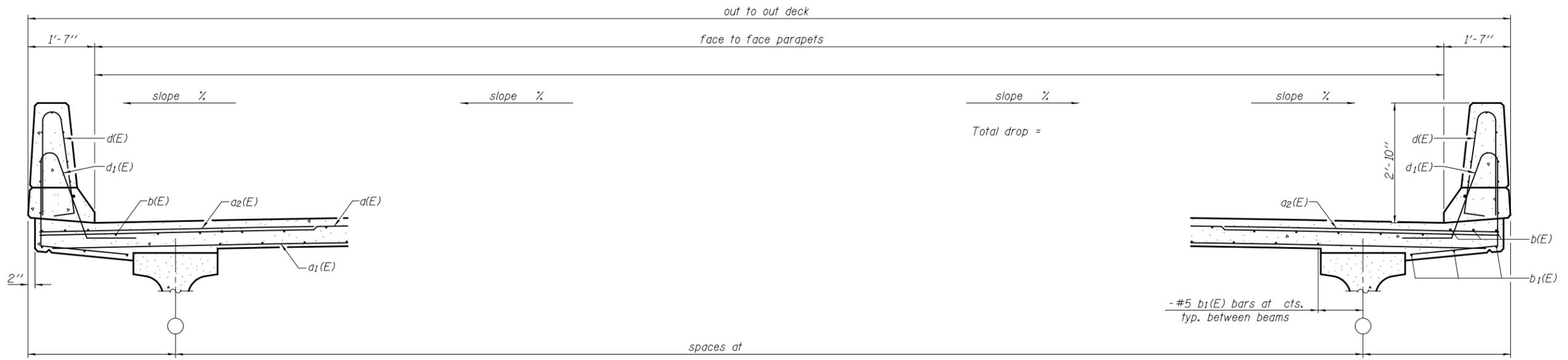
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

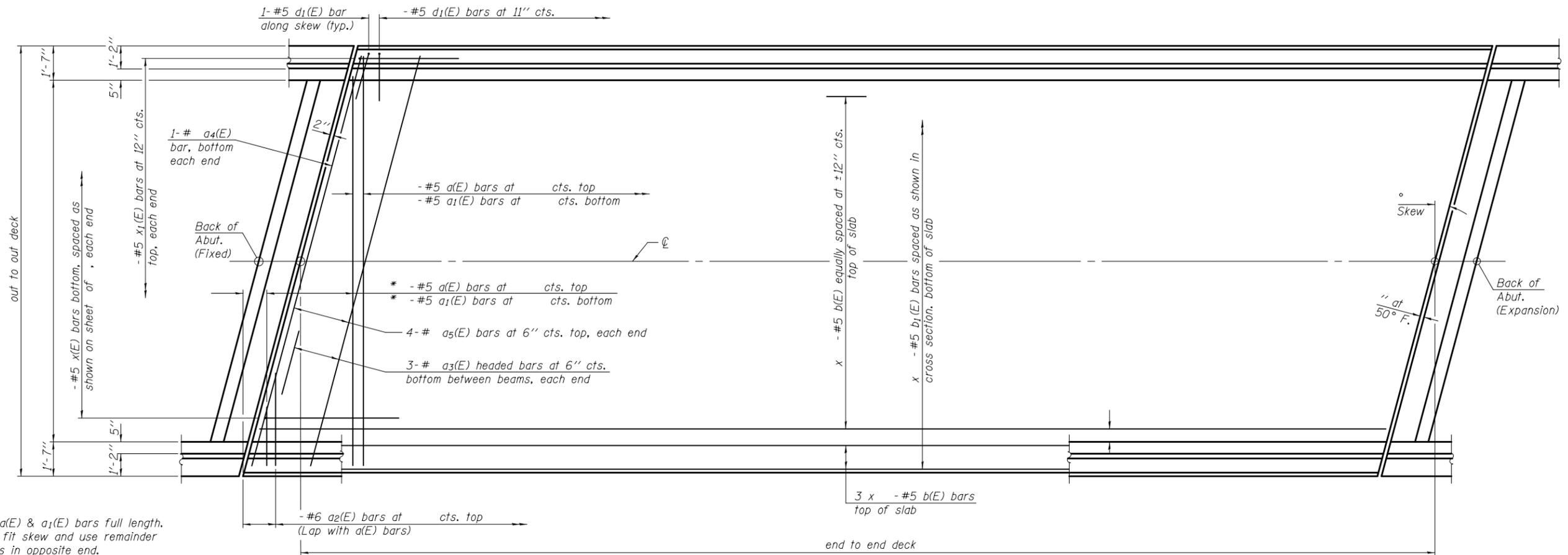
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CROSS SECTION
(Looking)

SE-IL2772N-1-0 10-7-2016

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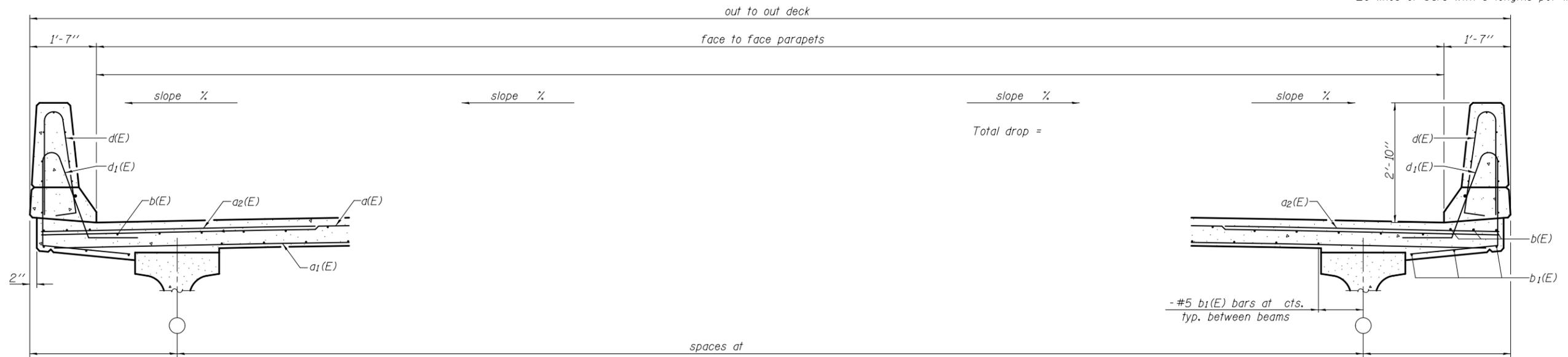
* Order $a(E)$ & $a_1(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP

#5 bar = 3'-6"

PLAN

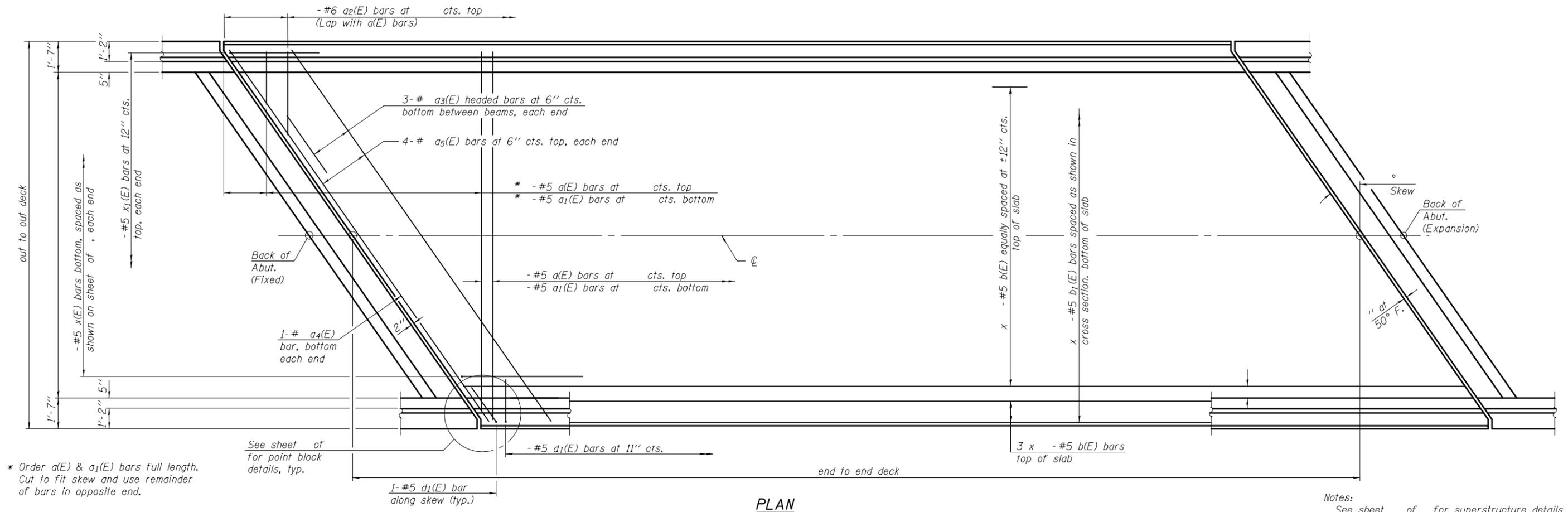
Notes:
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CROSS SECTION
(Looking)

SE-IL2772N-1-L(30°) 10-7-2016

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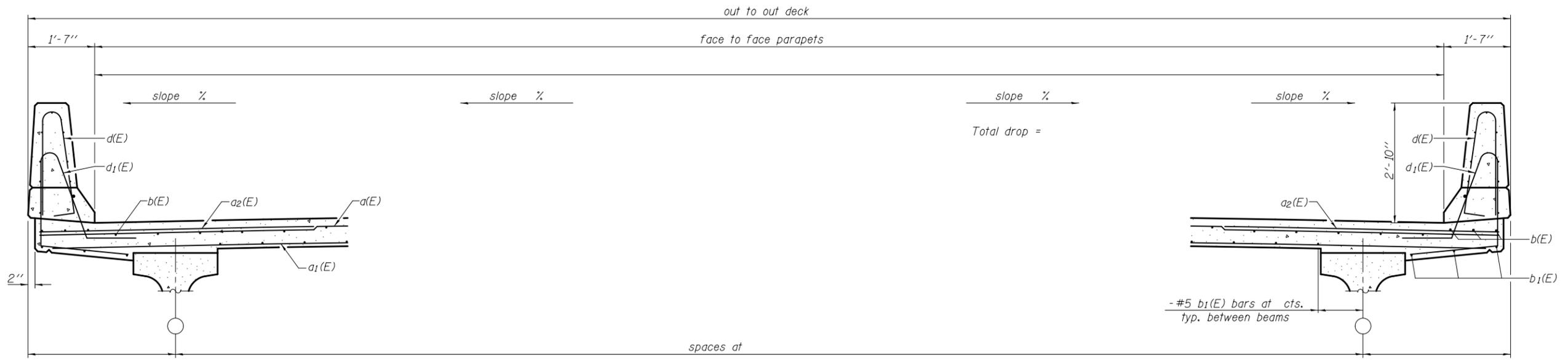
* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

See sheet of for point block details, typ.

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

MINIMUM BAR LAP
#5 bar = 3'-6"

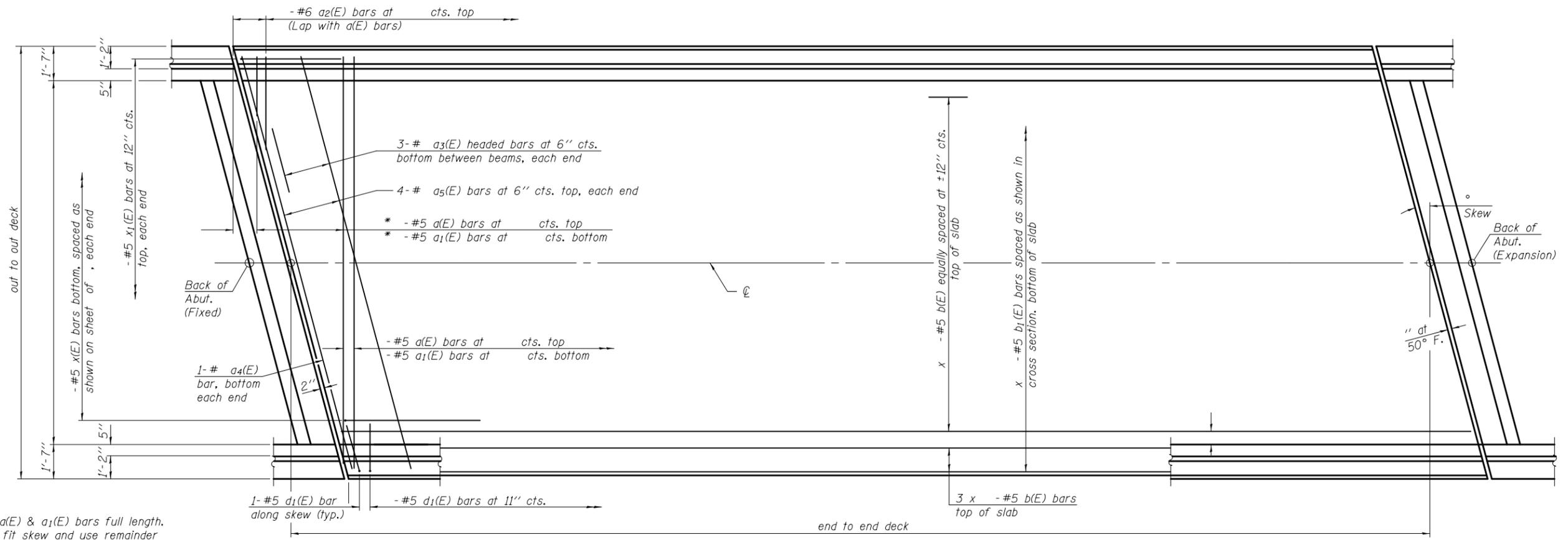
PLAN



CROSS SECTION
(Looking)

SE-IL2772N-1-R(>30°) 10-7-2016

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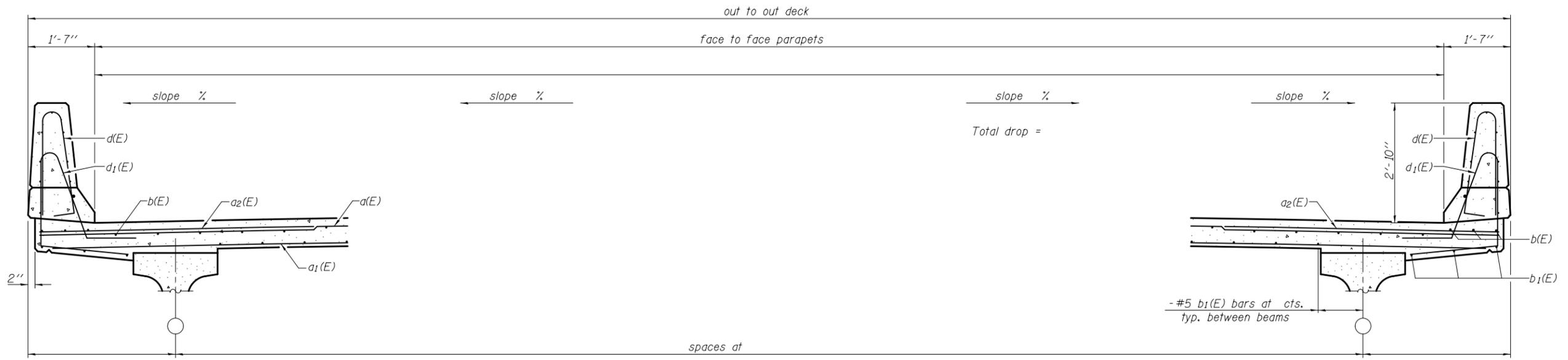


* Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PLAN

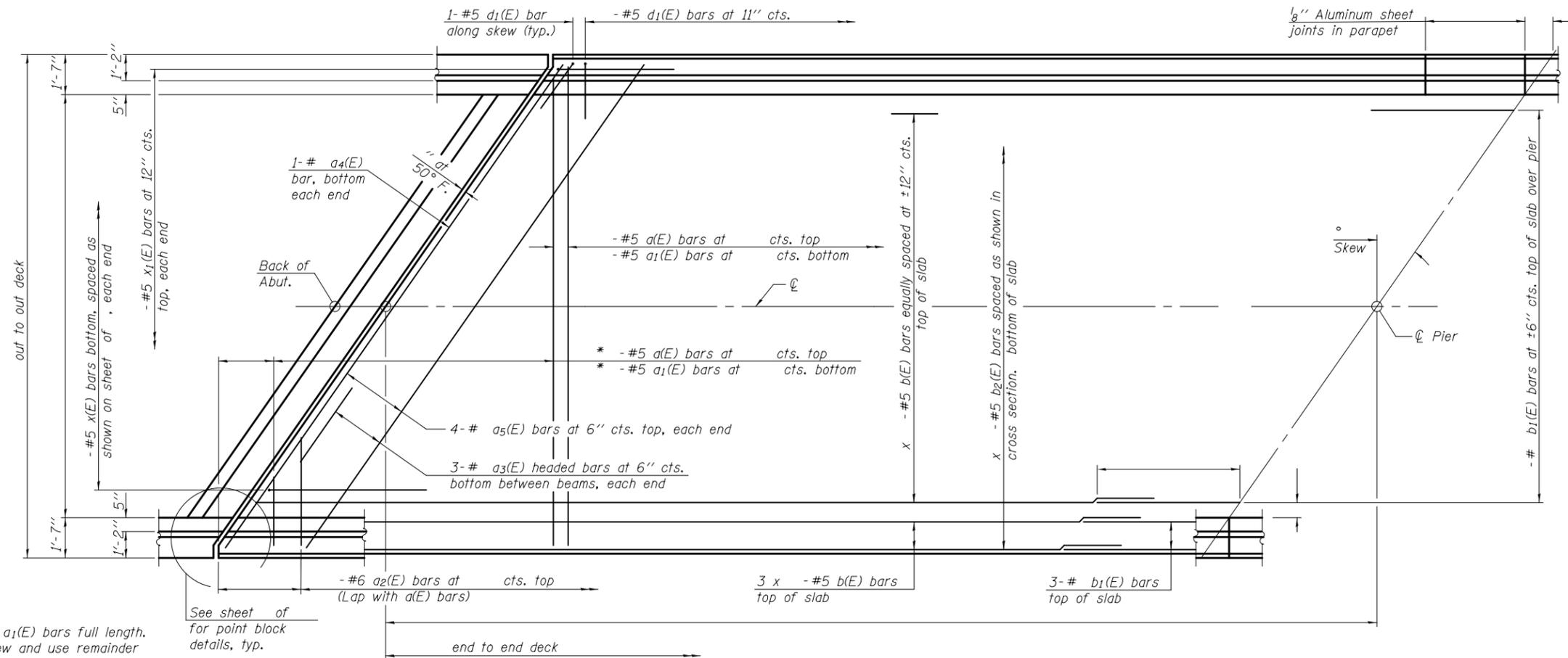
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CROSS SECTION
(Looking)

SE-IL2772N-1-R(30°) 10-7-2016

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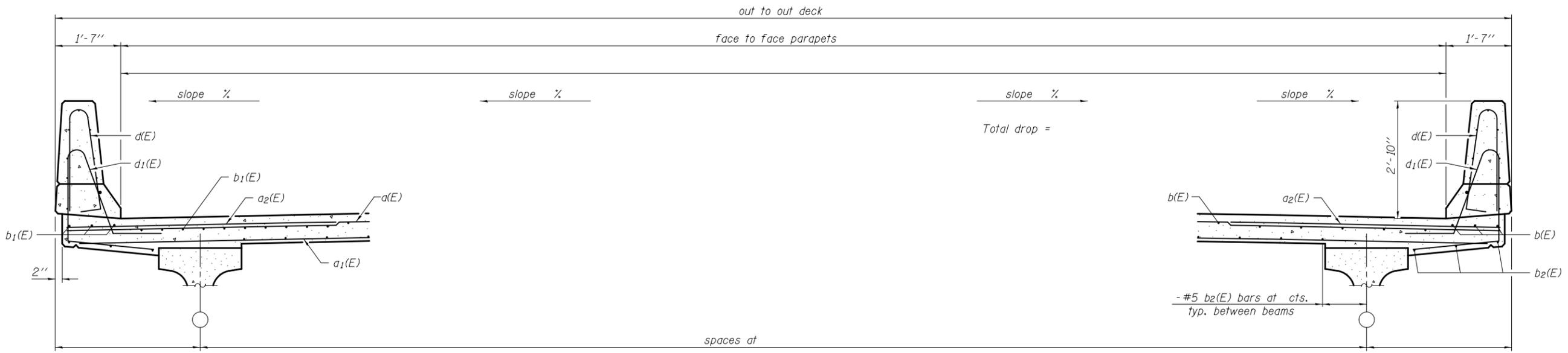
See sheet of for point block details, typ.

PARTIAL PLAN

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MINIMUM BAR LAP

#5 bar = 3'-6"



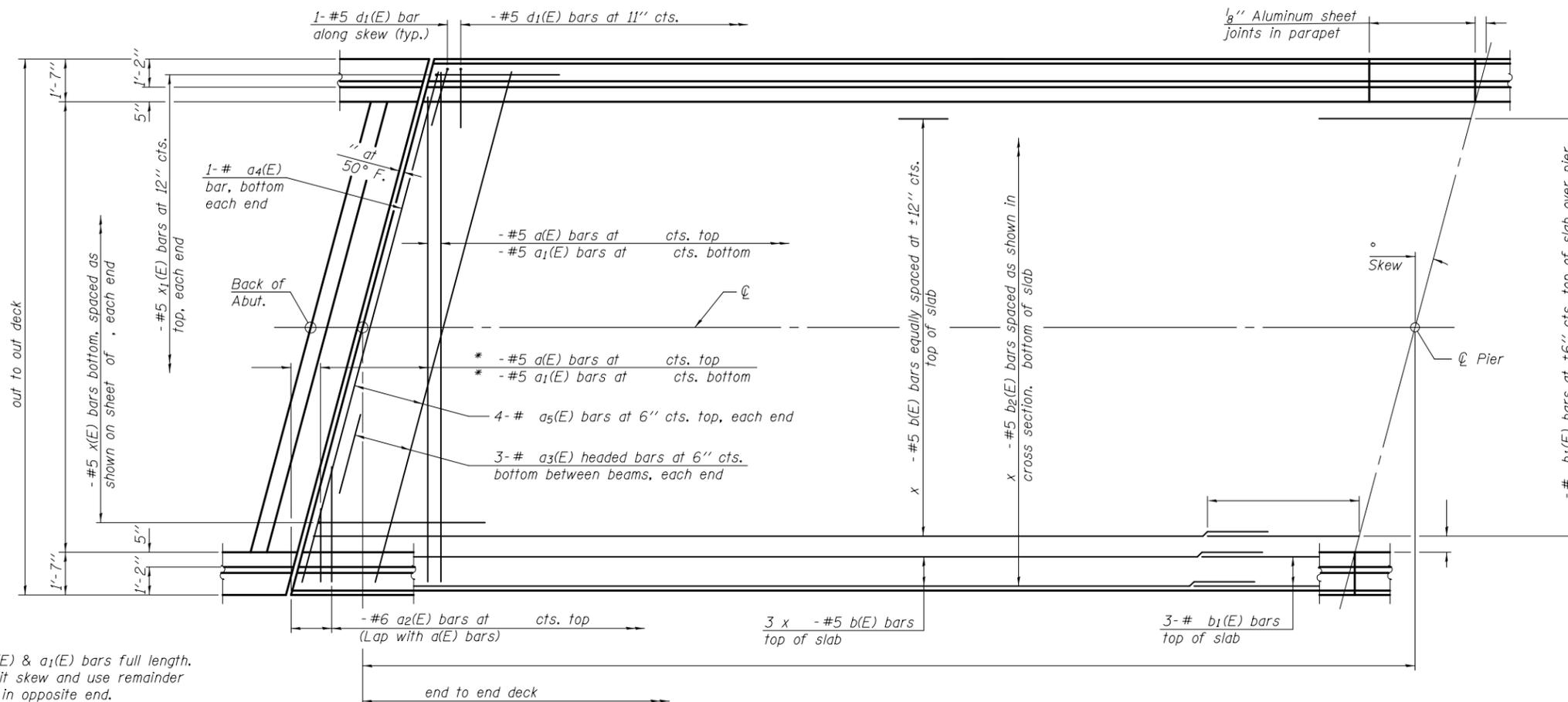
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL2772N-2-L(>30°) 10-7-2016

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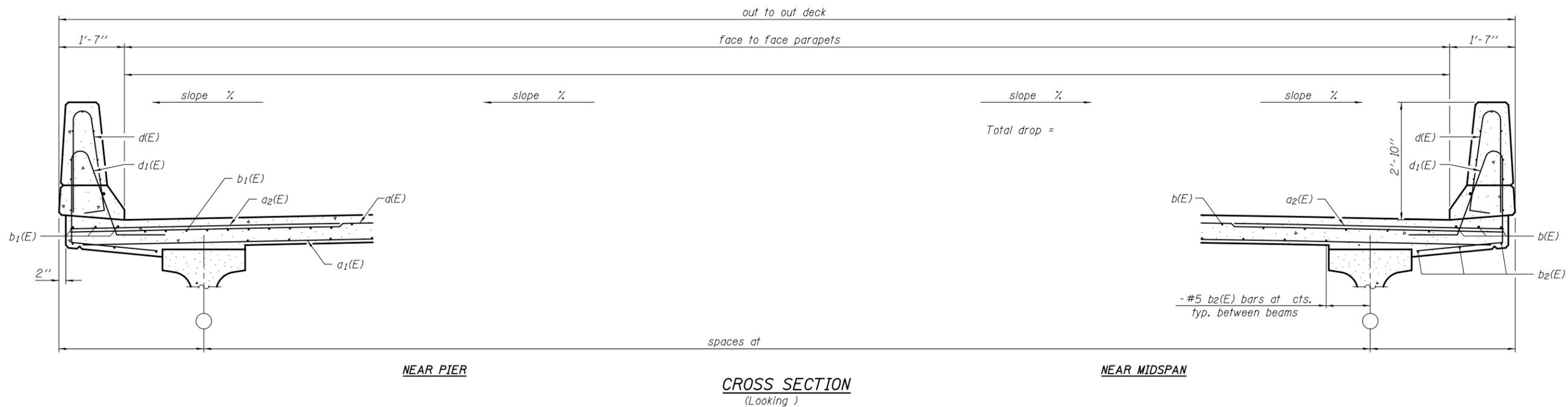


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MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

Notes:
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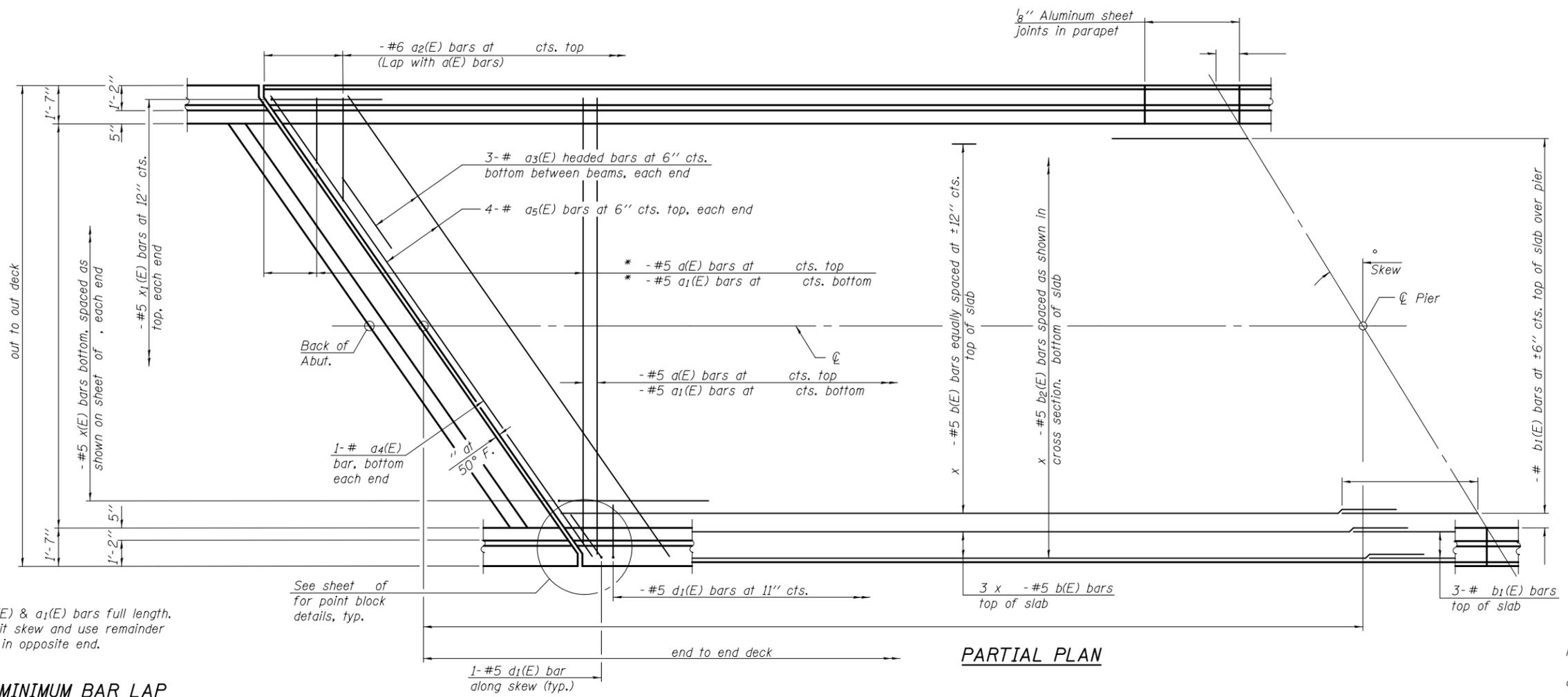
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL2772N-2-L(30°) 10-7-2016

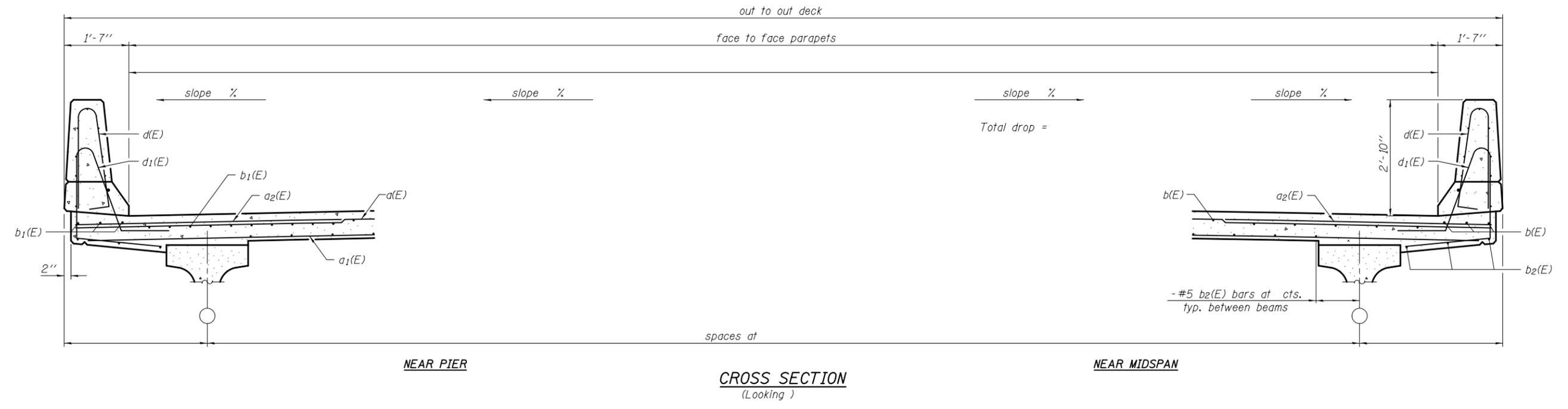
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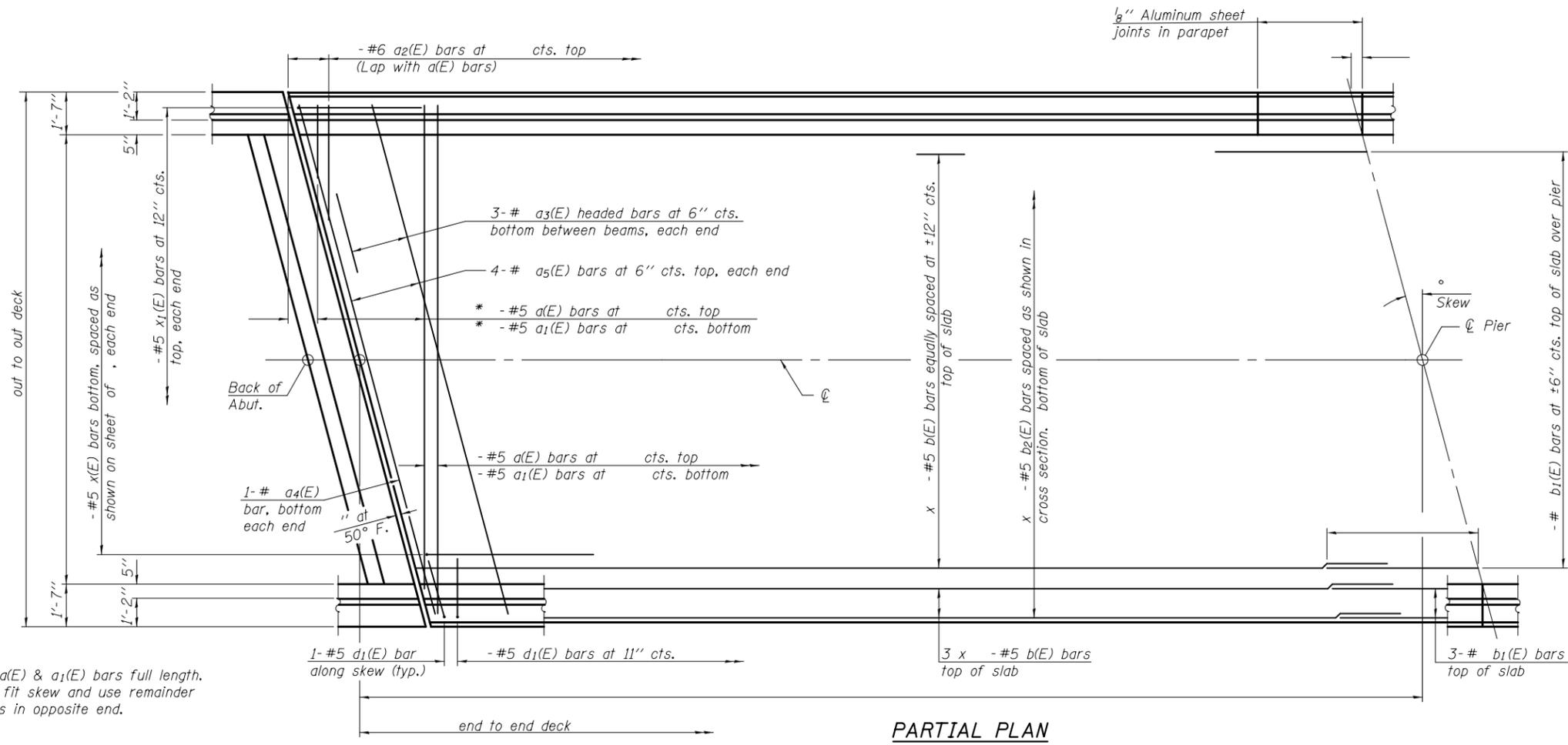
MINIMUM BAR LAP
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Notes:
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SE-IL2772N-2-R(>30°) 10-7-2016

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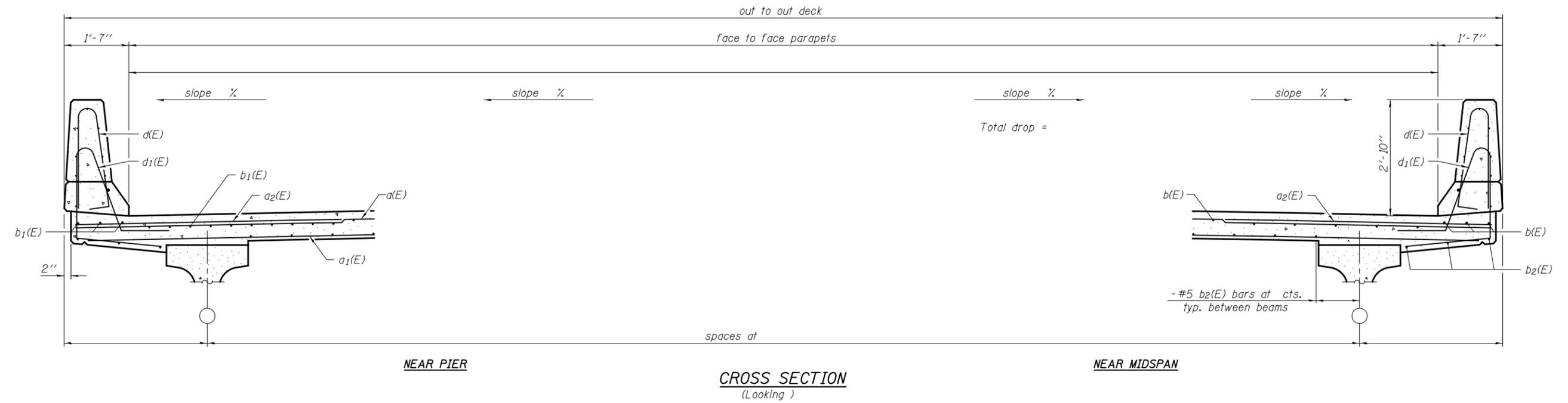


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
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PARTIAL PLAN

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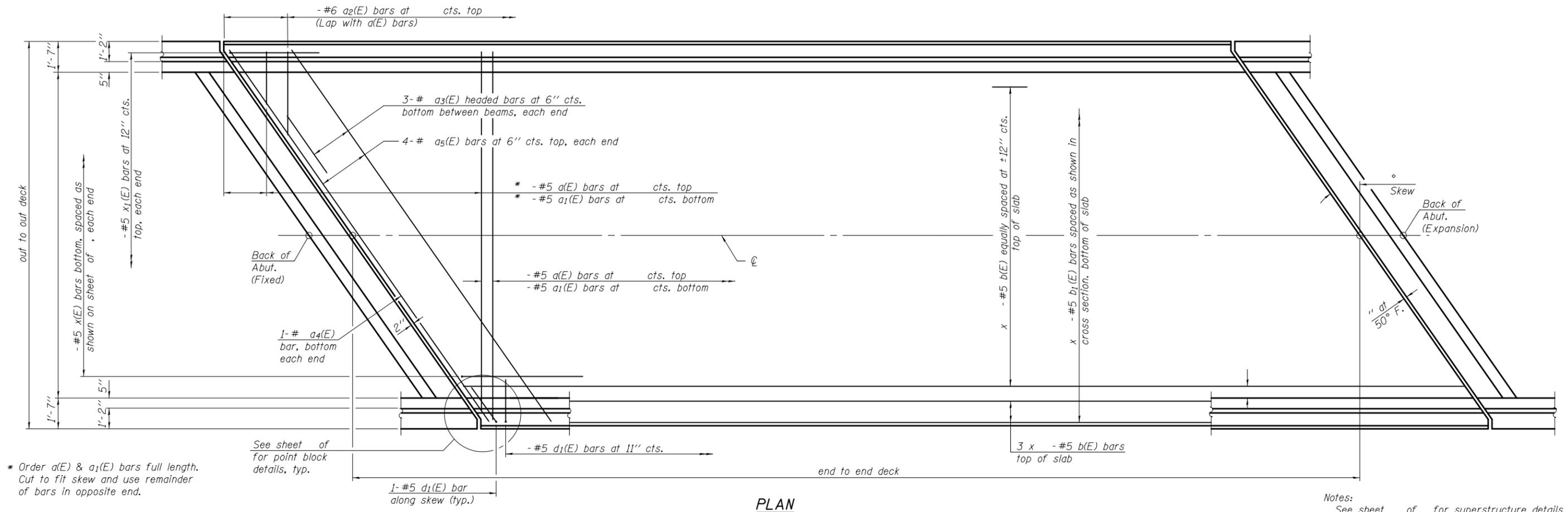
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL2772N-2-R(30°) 10-7-2016

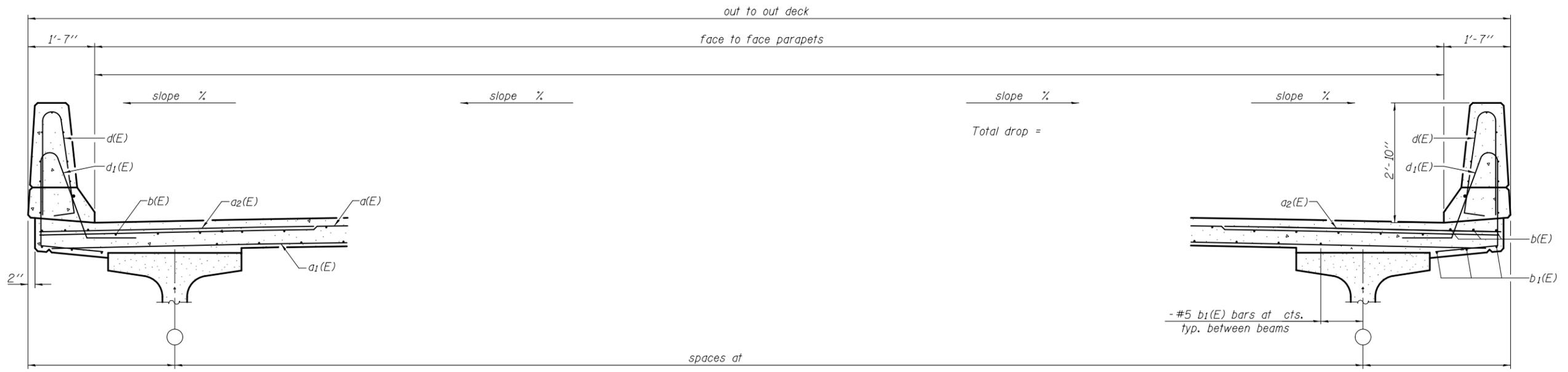
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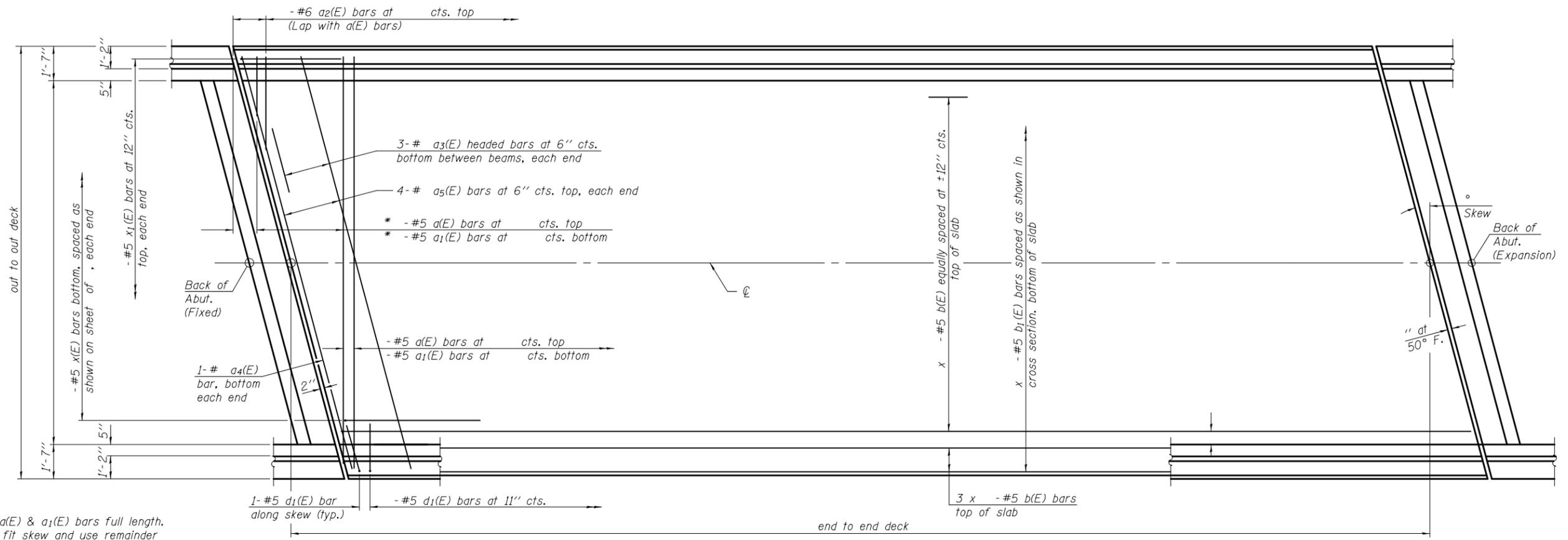
MINIMUM BAR LAP
#5 bar = 3'-6"

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SE-IL3672-1-R(>30°) 10-7-2016

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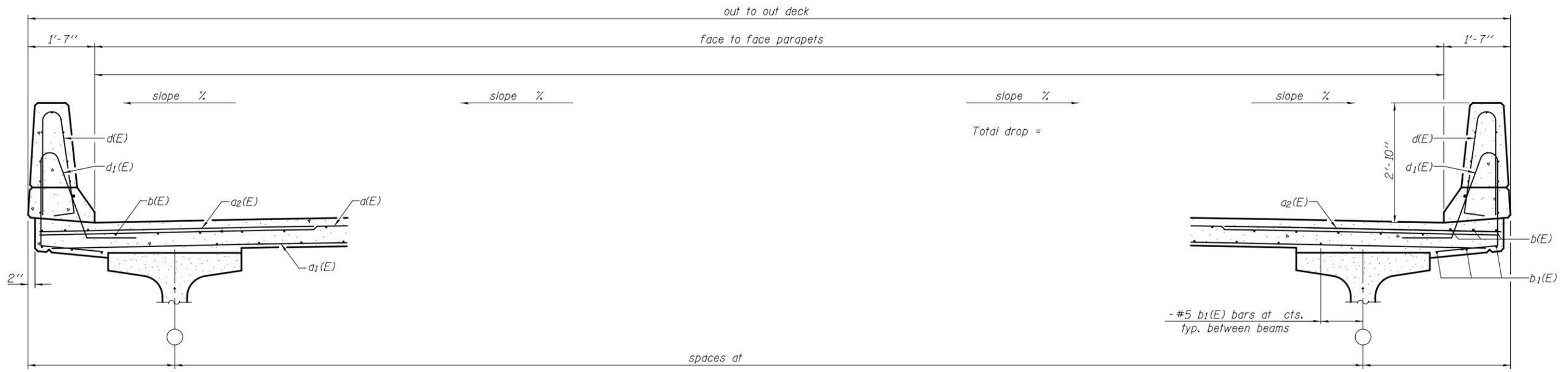


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PLAN

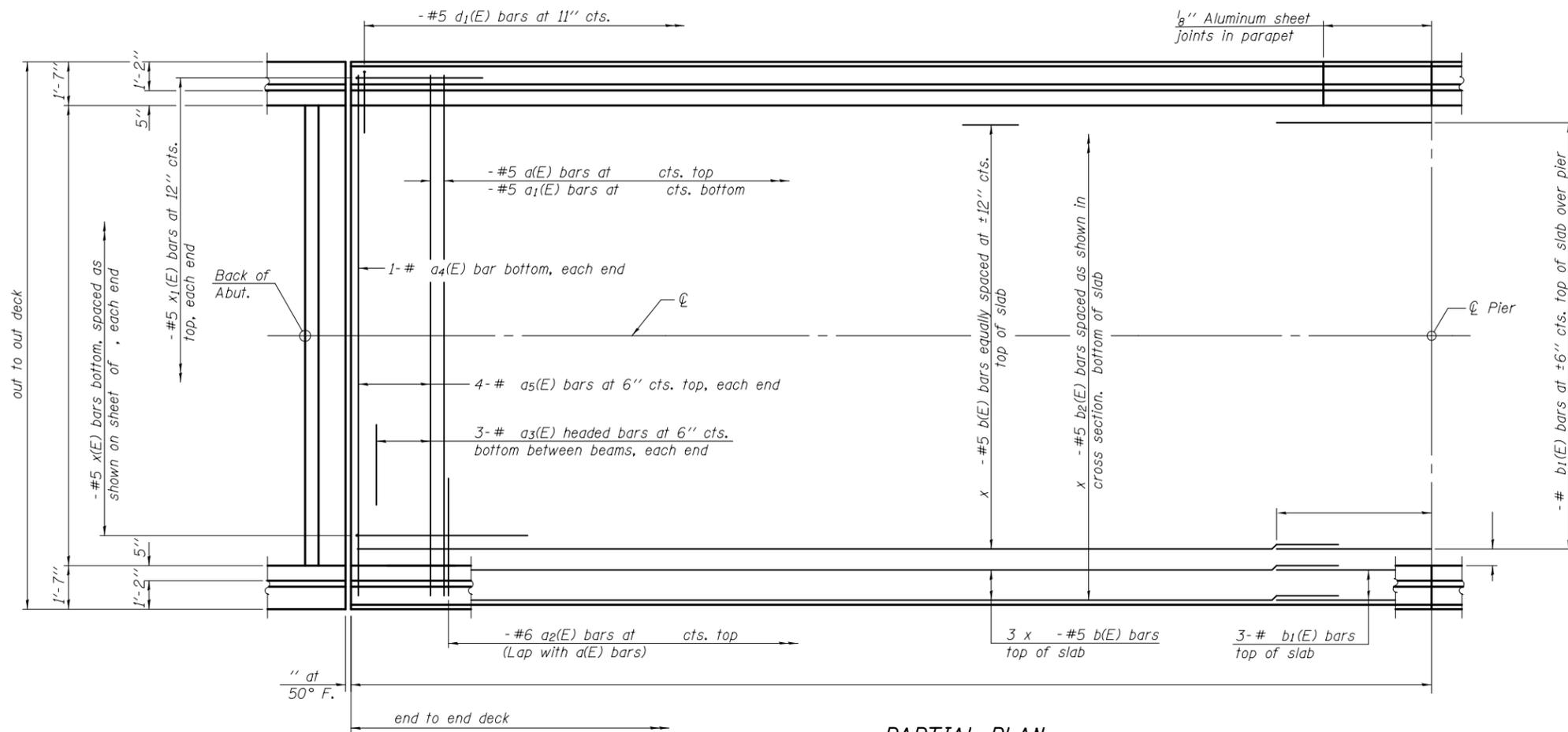
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CROSS SECTION
(Looking)

SE-IL3672-1-R(30°) 10-7-2016

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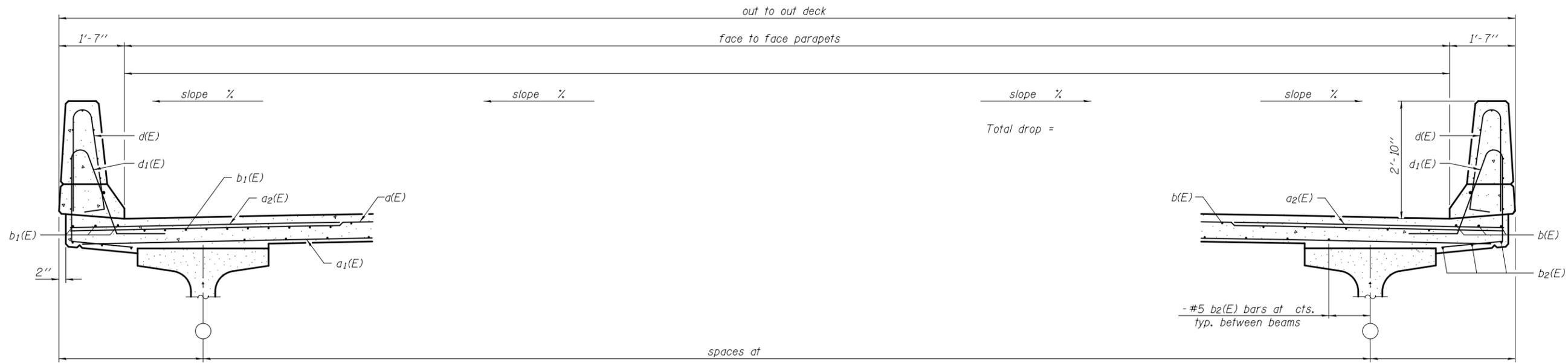


PARTIAL PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:
See sheet of for superstructure details and Bill of Material.
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NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL3672-2-0

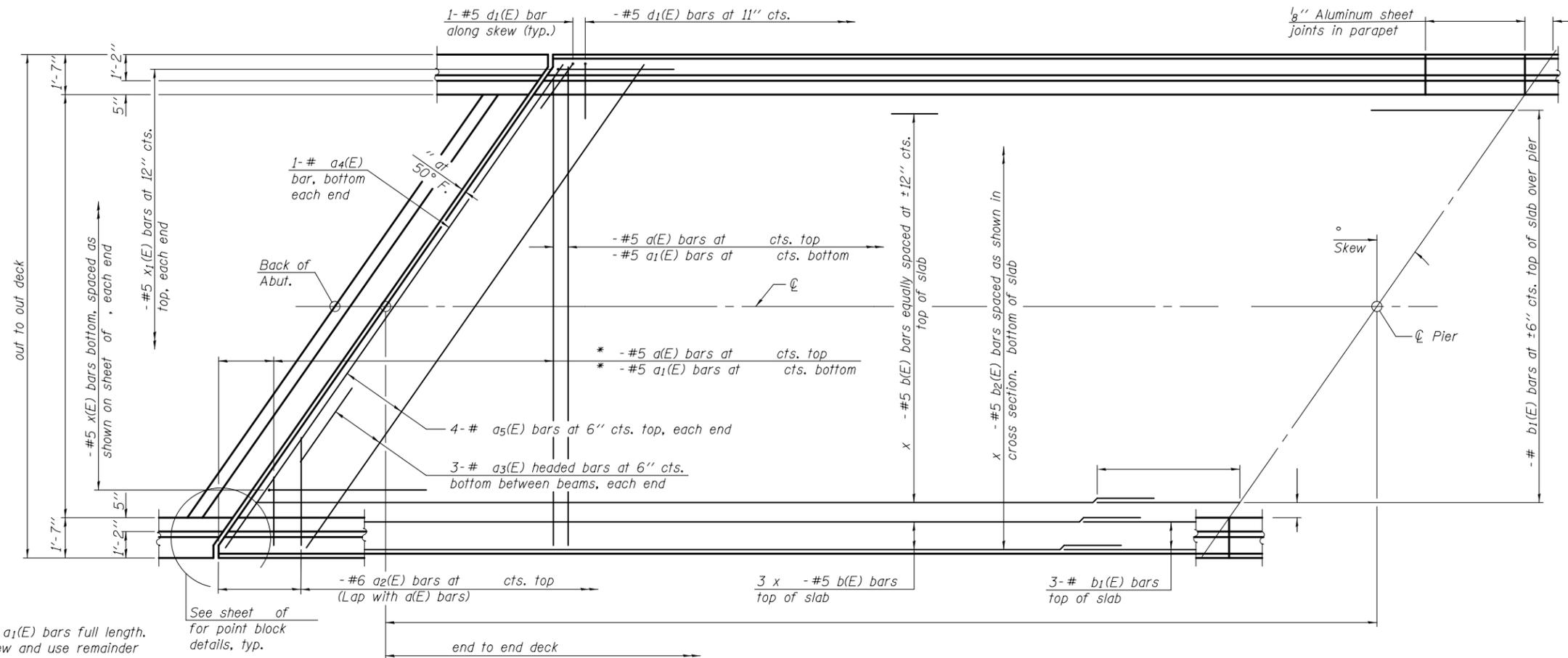
10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



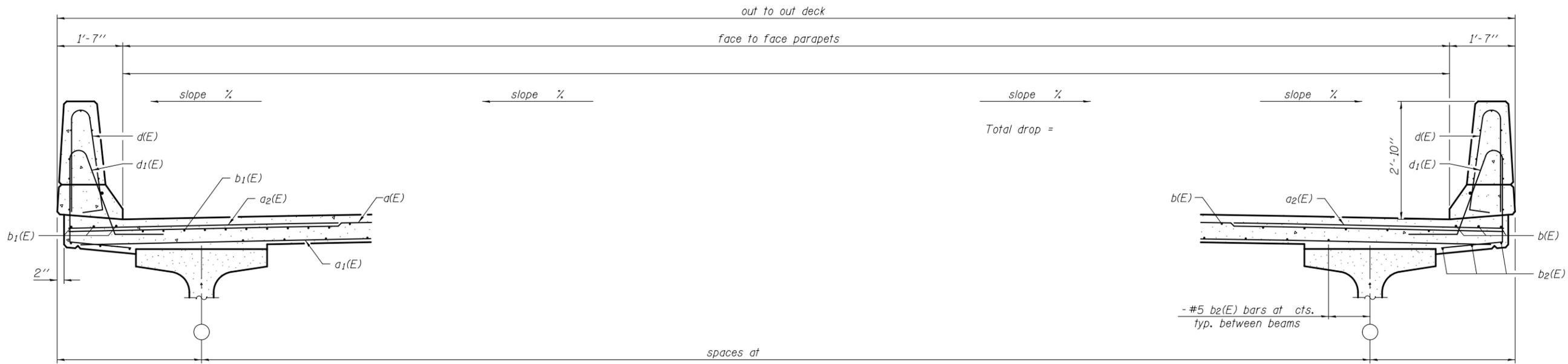
* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP

#5 bar = 3'-6"

PARTIAL PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



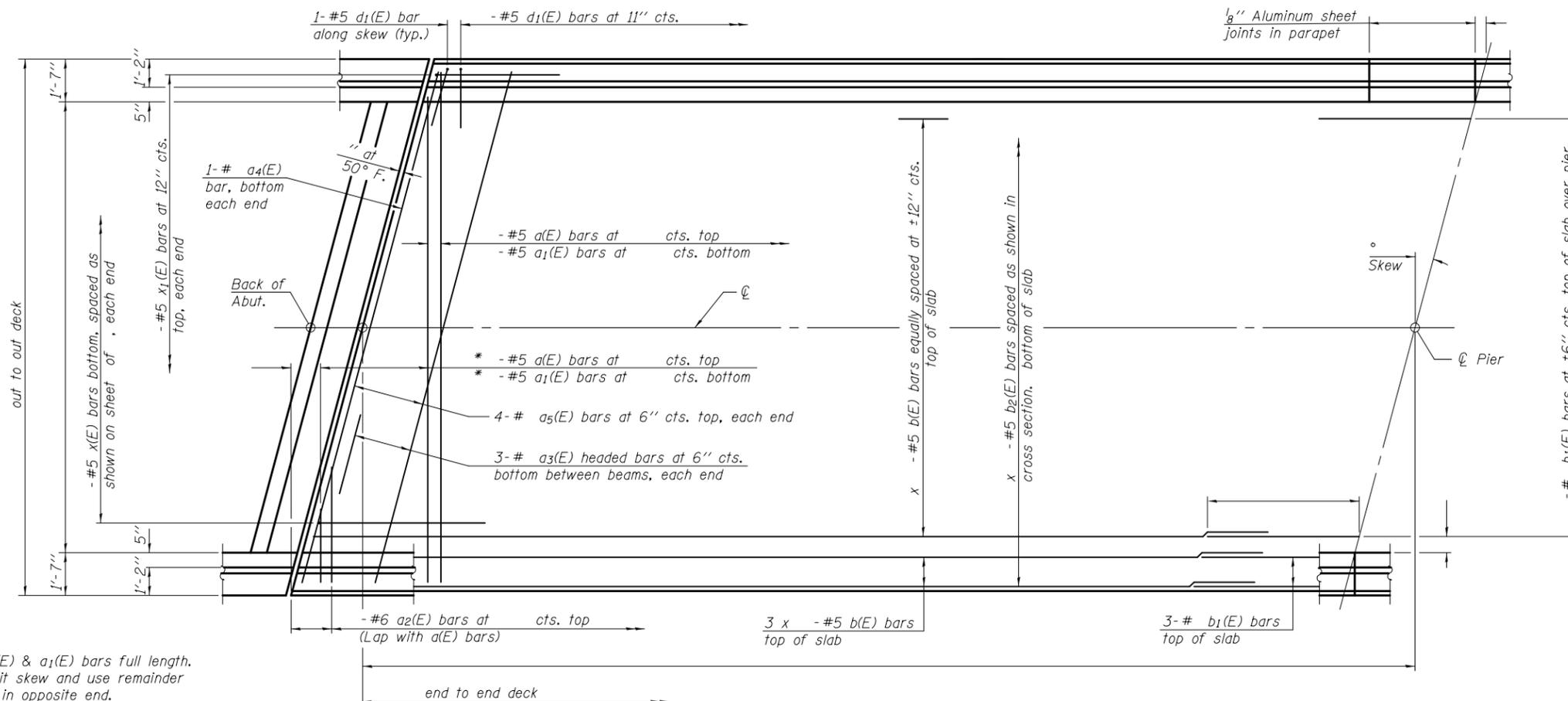
NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL3672-2-L(>30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
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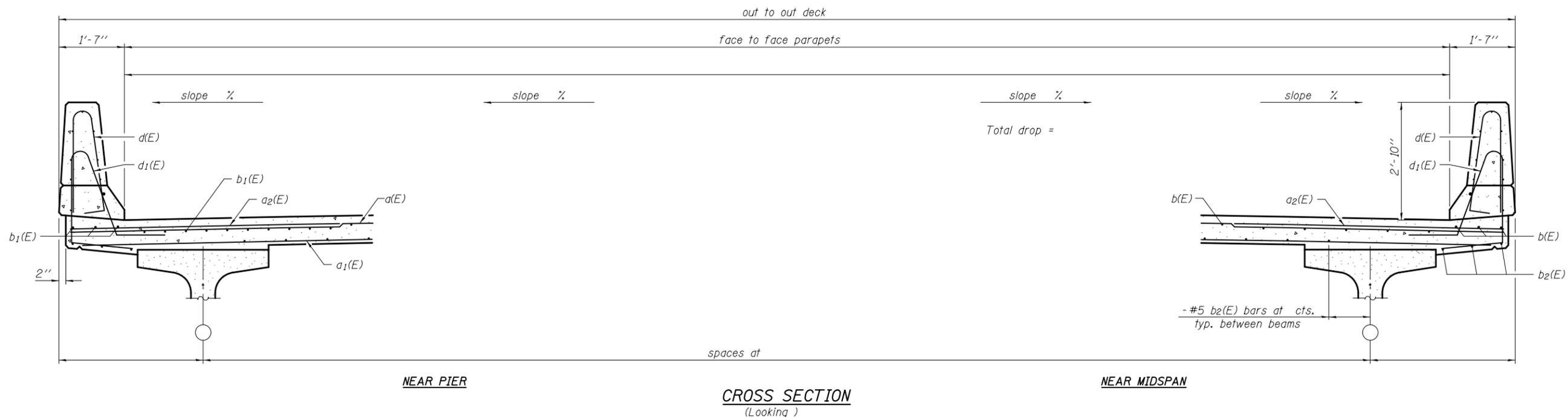


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

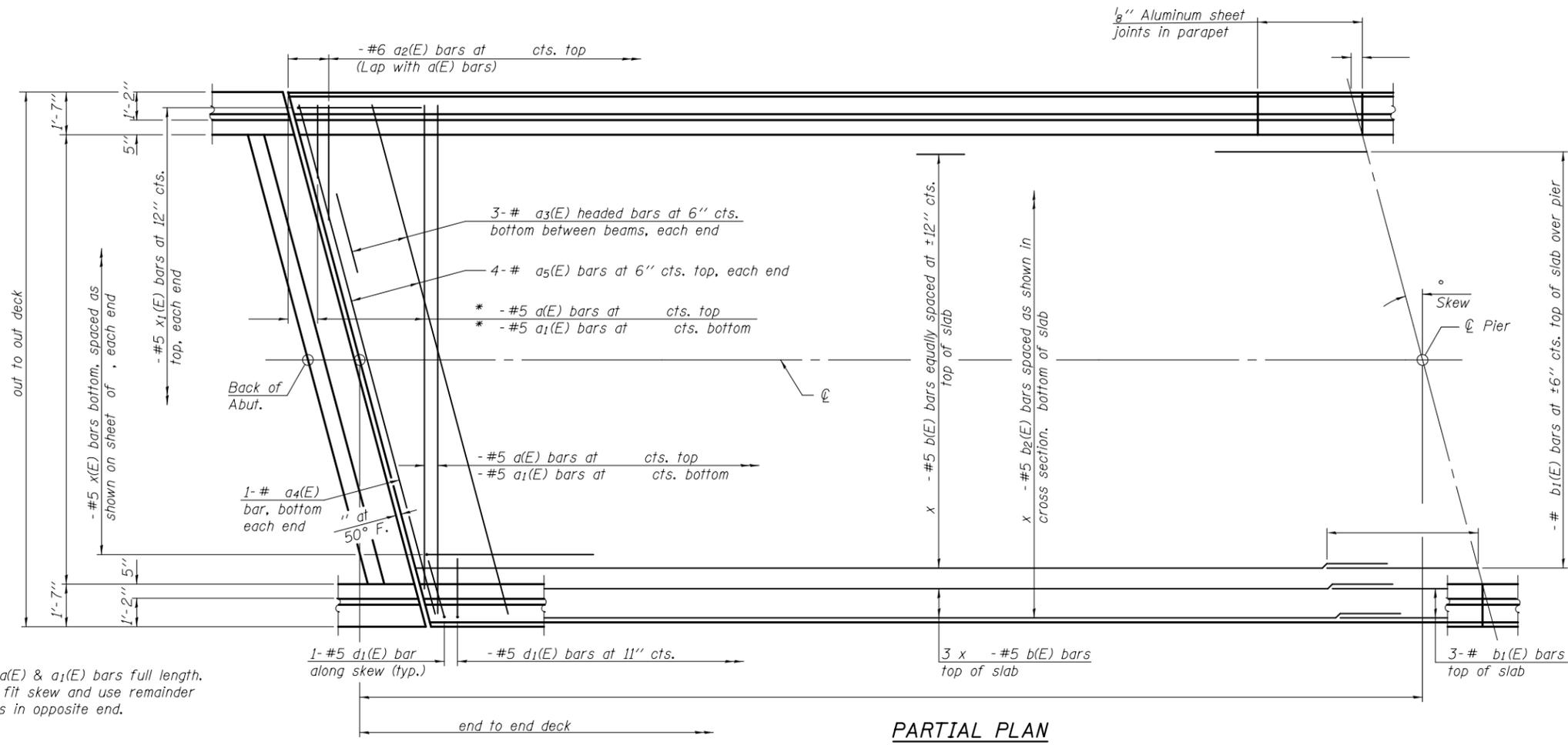
PARTIAL PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



SE-IL3672-2-L(30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISD -			CONTRACT NO.					
		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
		PLOT SCALE =	REVISD -								
		PLOT DATE =	CHECKED -								

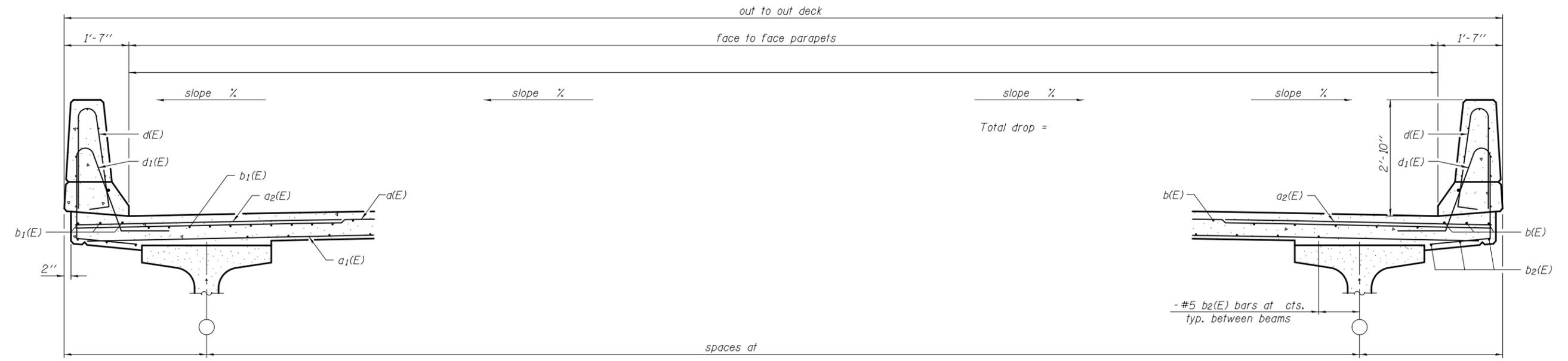


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



NEAR PIER

CROSS SECTION
(Looking)

NEAR MIDSPAN

SE-IL3672-2-R(30°) 10-7-2016

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISD -			CONTRACT NO.					
		DRAWN -	REVISD -			ILLINOIS FED. AID PROJECT					
		CHECKED -	REVISD -								