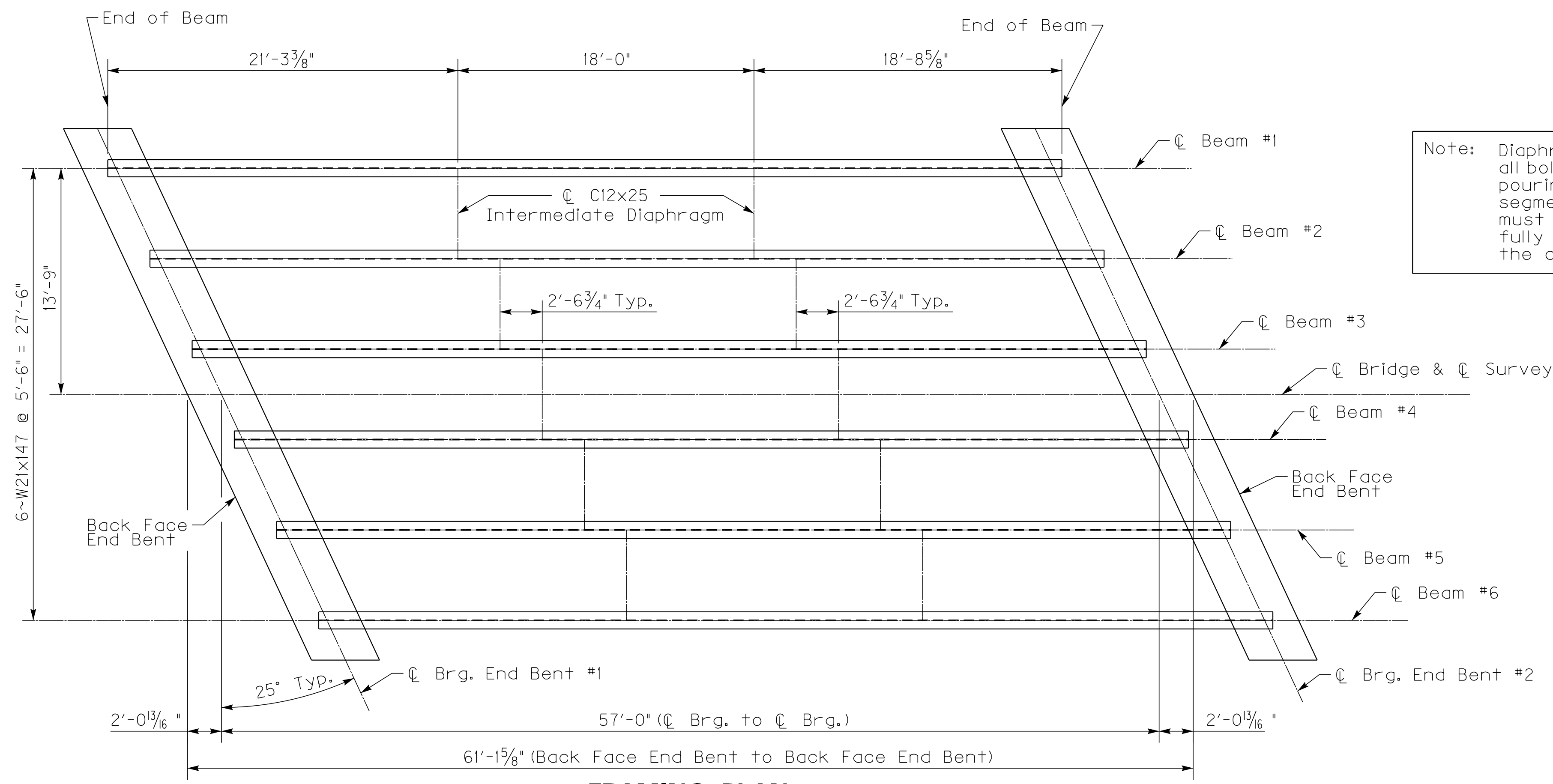


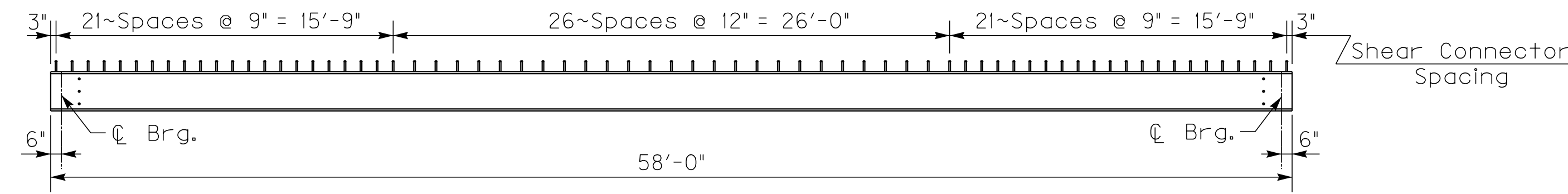
FILE NAME: C:\Users\Kevin.Sandefur\Desktop\26816.dgn

USER: Kevin.Sandefur
DATE PLOTTED: 09-AUG-2013

E-SHEET NAME: 26816-S0
MicroStation v8.11.7.180



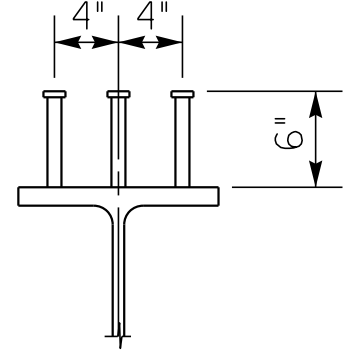
FRAMING PLAN



GIRDER ELEVATION

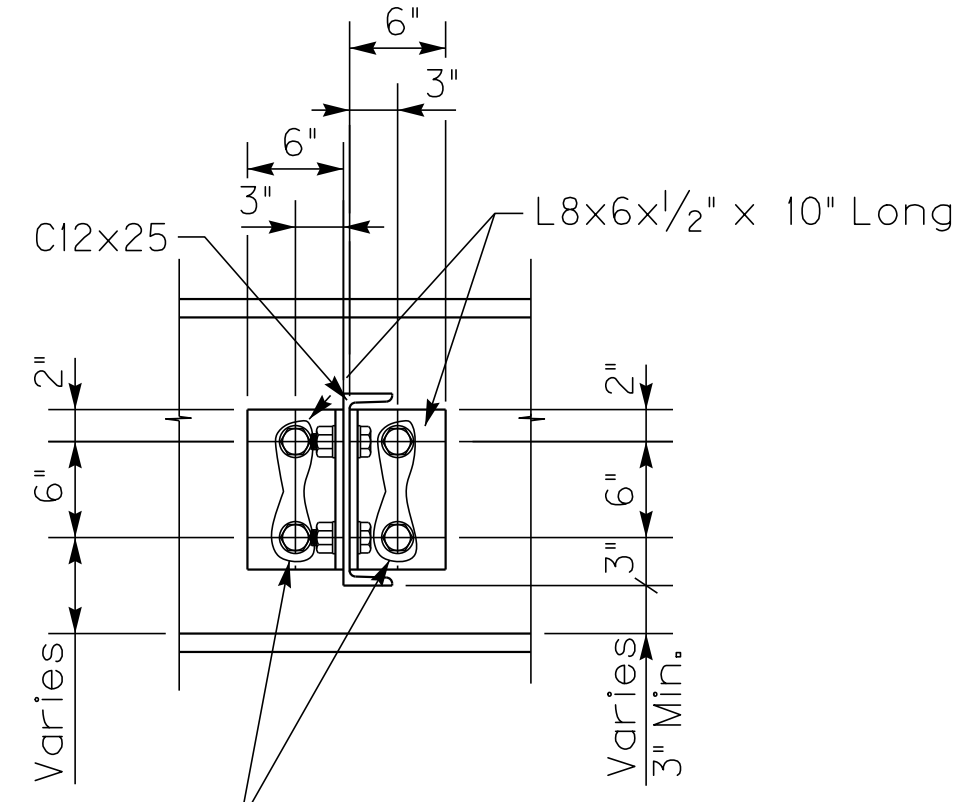
Note: Place girders with any mill or shop camber bowed up in the middle. Heat cambering is not required.

Note: Diaphragms shall be attached and all bolts fully tensioned prior to pouring the deck on each precast segment. The middle diaphragms must also be placed and all bolts fully tensioned prior to pouring the closure pour.



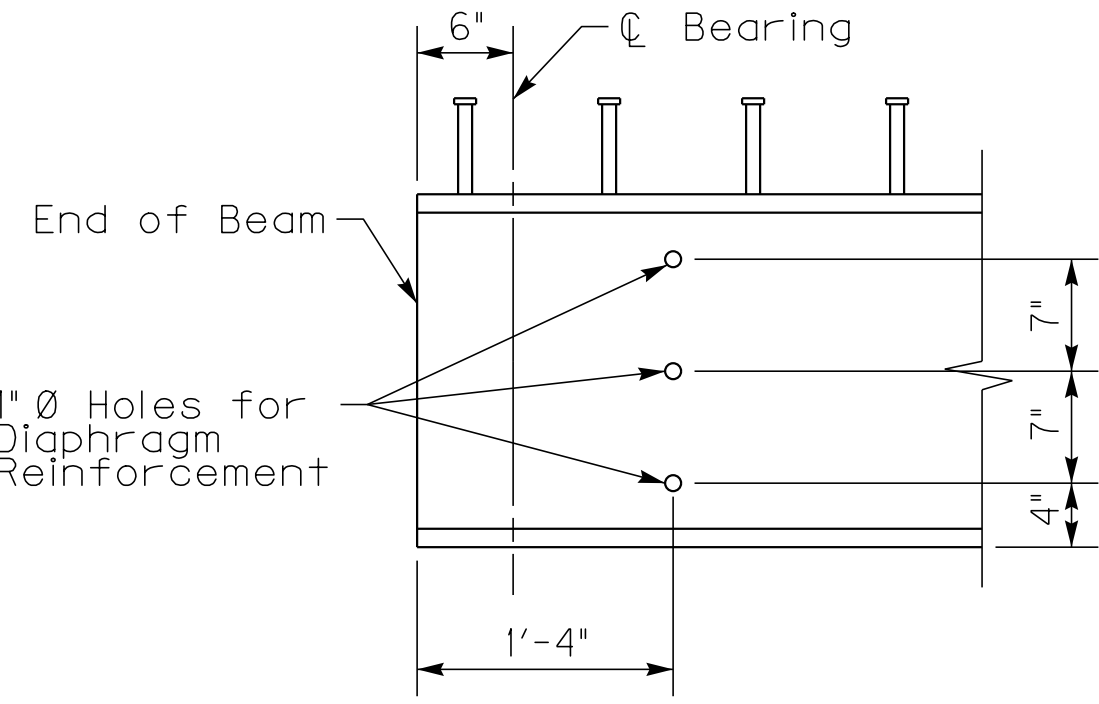
SHEAR CONNECTOR

Use 7/8"Øx6" Long Granular or Solid Flux Filled Headed Studs, Automatically End Welded.

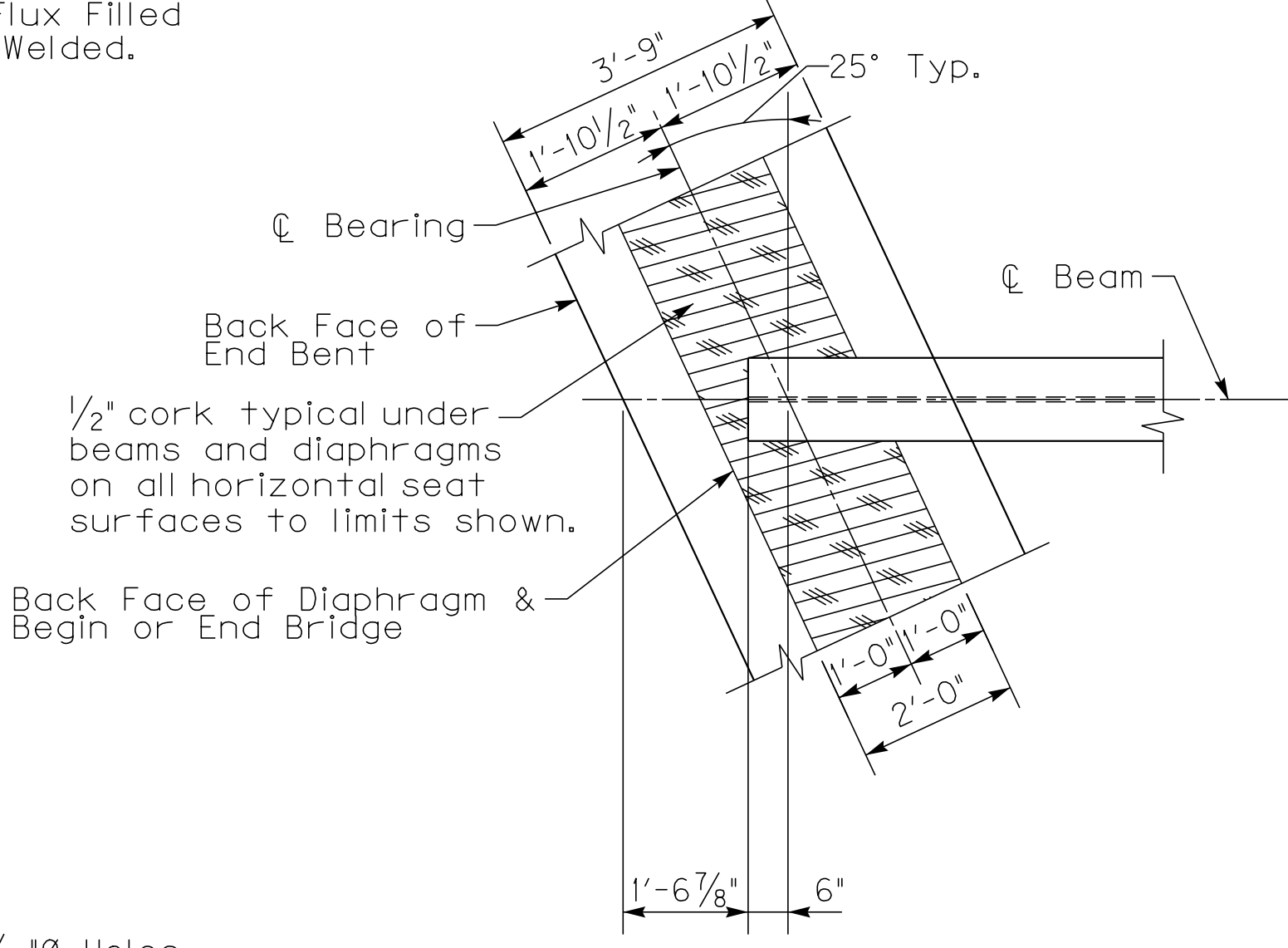


SECTION A-A

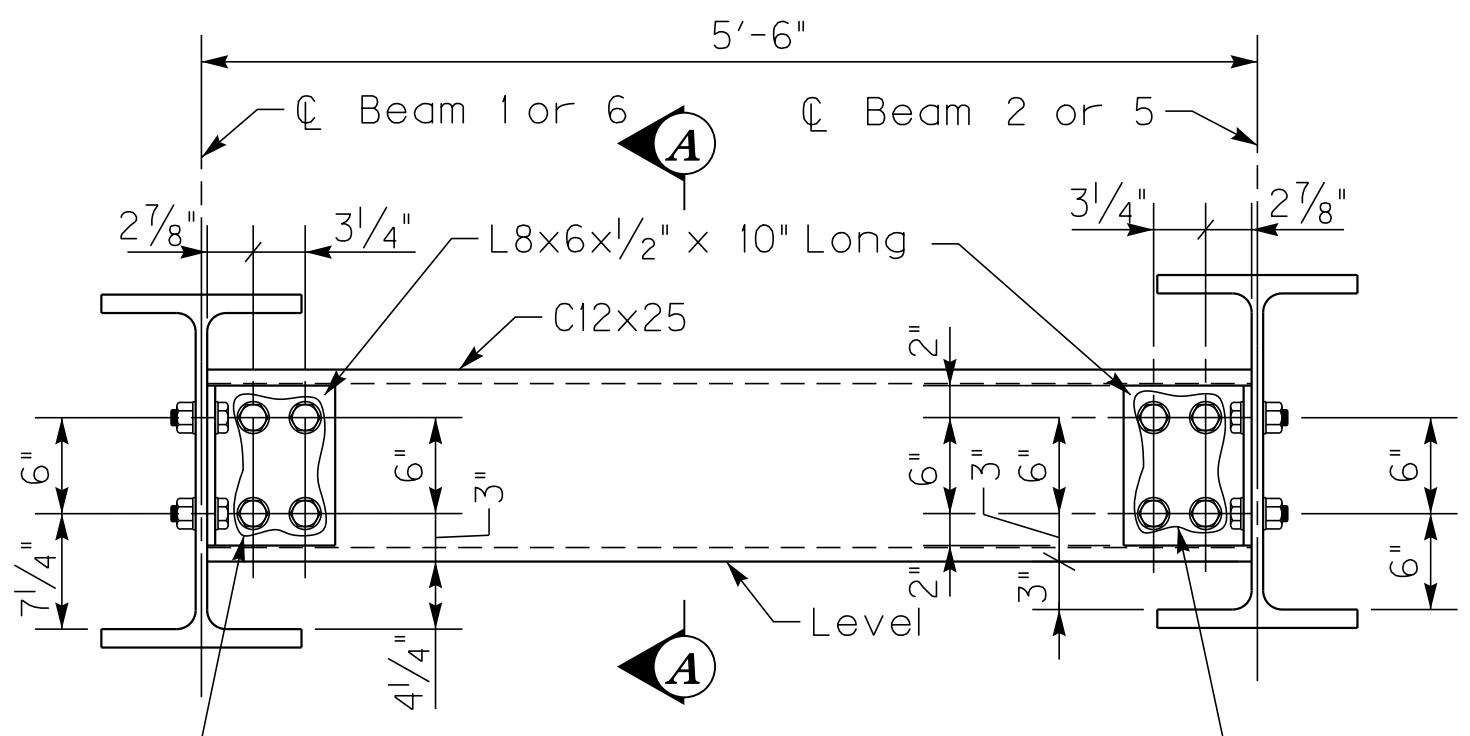
1"Ø High Strength Bolts with 1/16"Ø Holes. Provide a hardened washer under the nut and a DTI under the bolt head.



END OF BEAM DETAIL
(Typ. Each End of Beam)

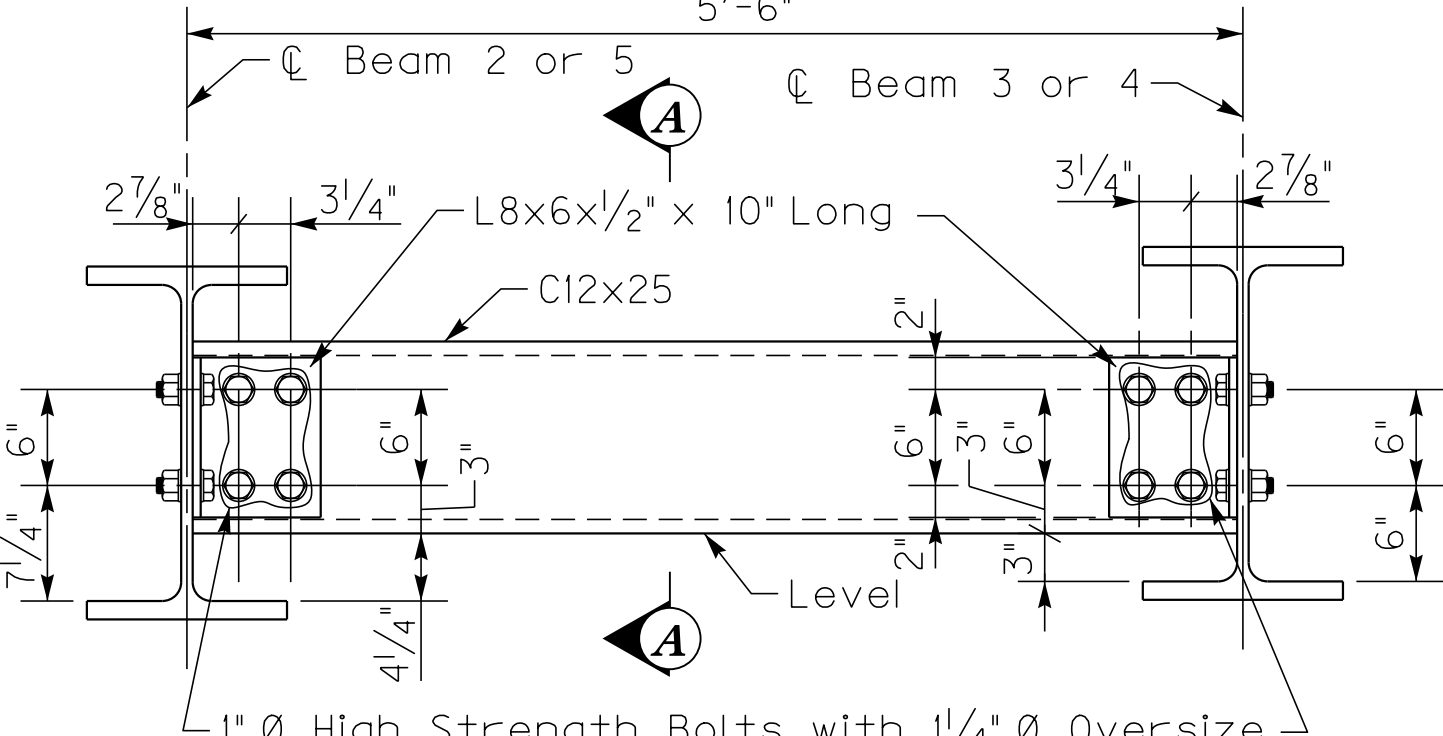


END OF BEAM DETAIL @ END BENTS



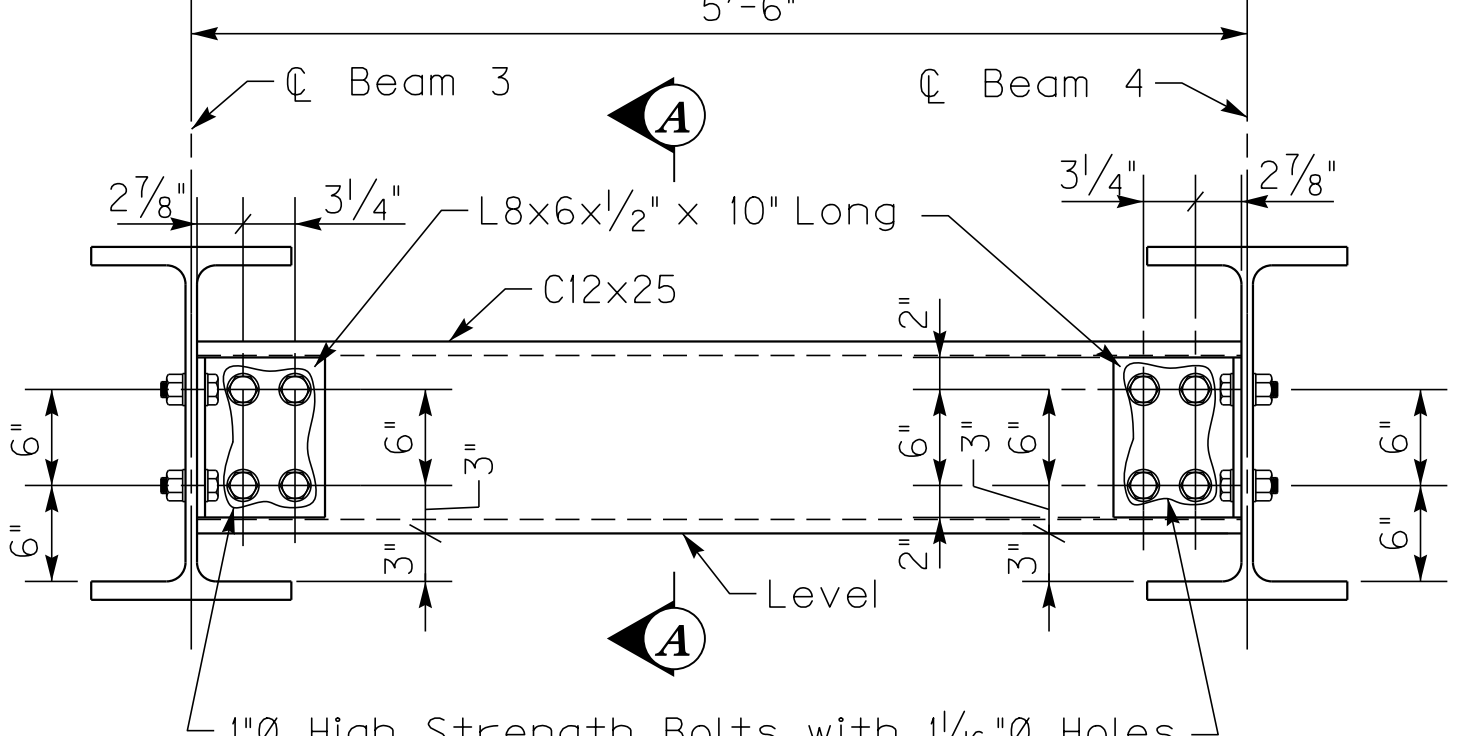
INTERMEDIATE DIAPHRAGM

1"Ø High Strength Bolts with 1/16"Ø Holes. Provide a hardened washer under the nut and a DTI under the bolt head.



INTERMEDIATE DIAPHRAGM

1"Ø High Strength Bolts with 1/4"Ø Oversize Holes in the angle and channel. Provide hardened washers under the bolt head and nut as well as a DTI under the bolt head.

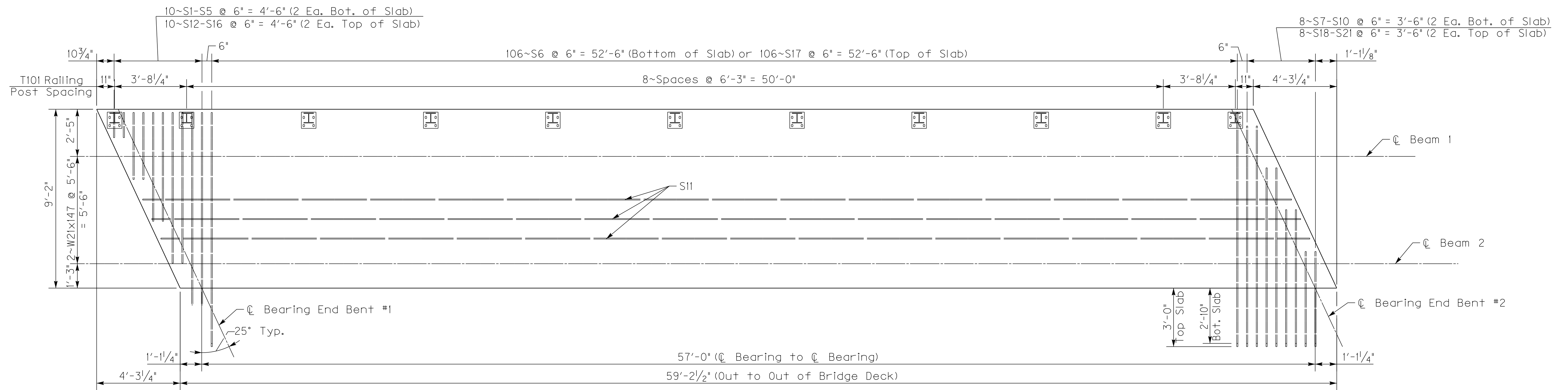


INTERMEDIATE DIAPHRAGM

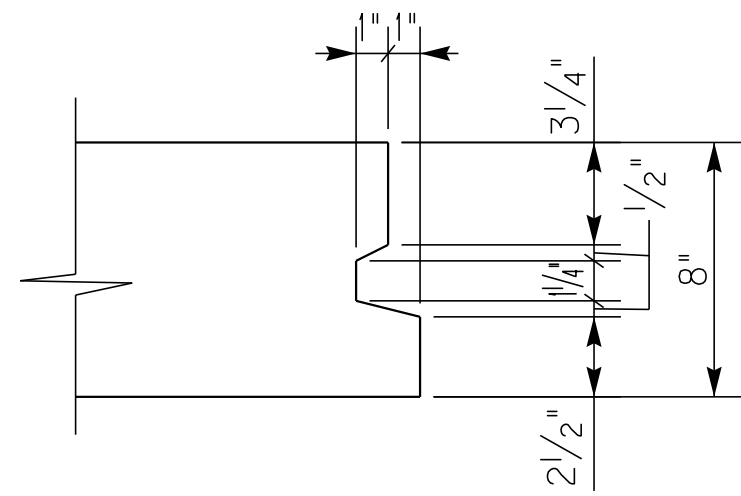
1"Ø High Strength Bolts with 1/16"Ø Holes. Provide a hardened washer under the nut and a DTI under the bolt head.

ITEM NUMBER	
11-1075.00	

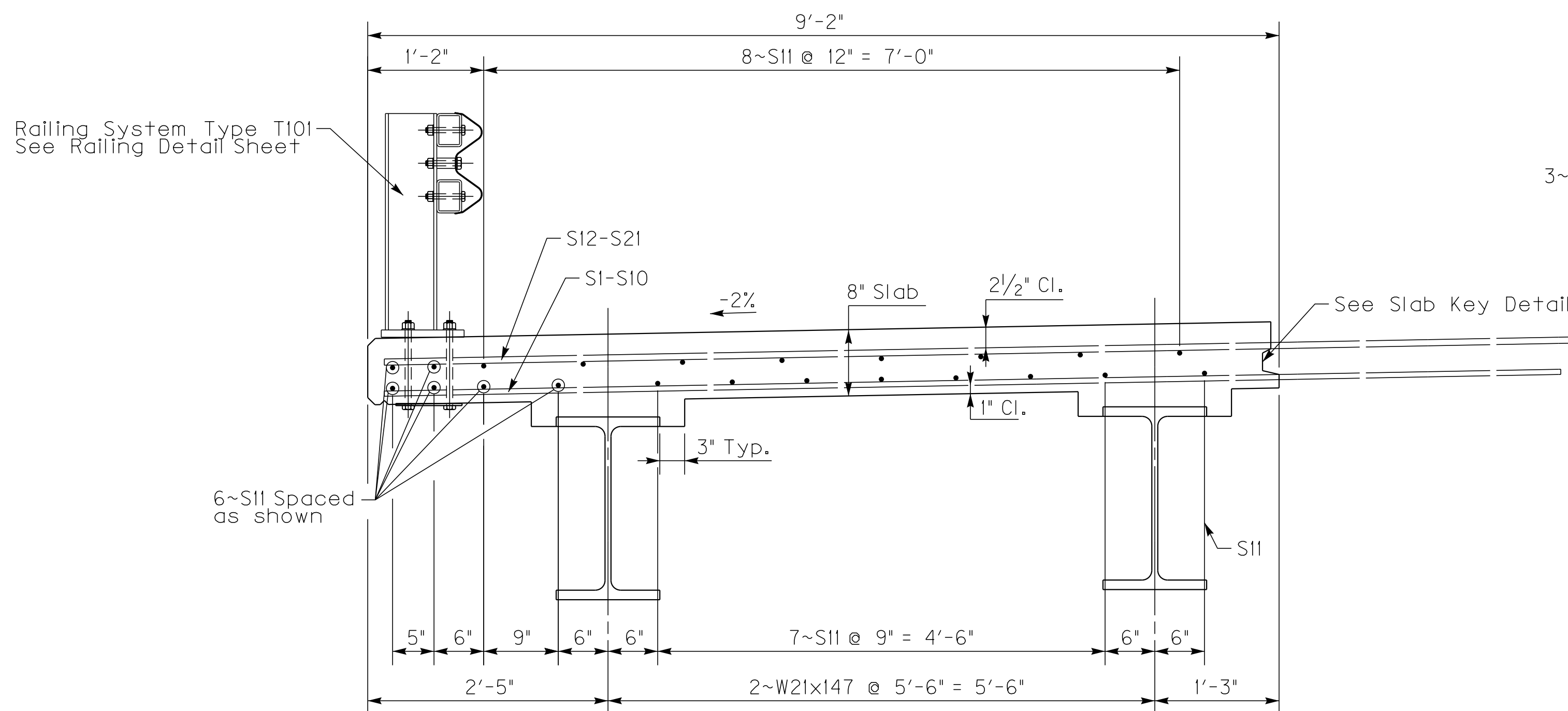
REVISION		DATE
DATE: June 2013	CHECKED BY	
DESIGNED BY: Joseph Van Zee	Carl Van Zee	
DETAILED BY: Joseph Van Zee	Carl Van Zee	
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY		
KNOX		
ROUTE	CROSSING	
KY 6	LYNN CAMP CREEK	
STRUCTURAL STEEL		
PREPARED BY		
Division of Structural Design		
SHEET NO.		26816
DRAWING NO.		26816



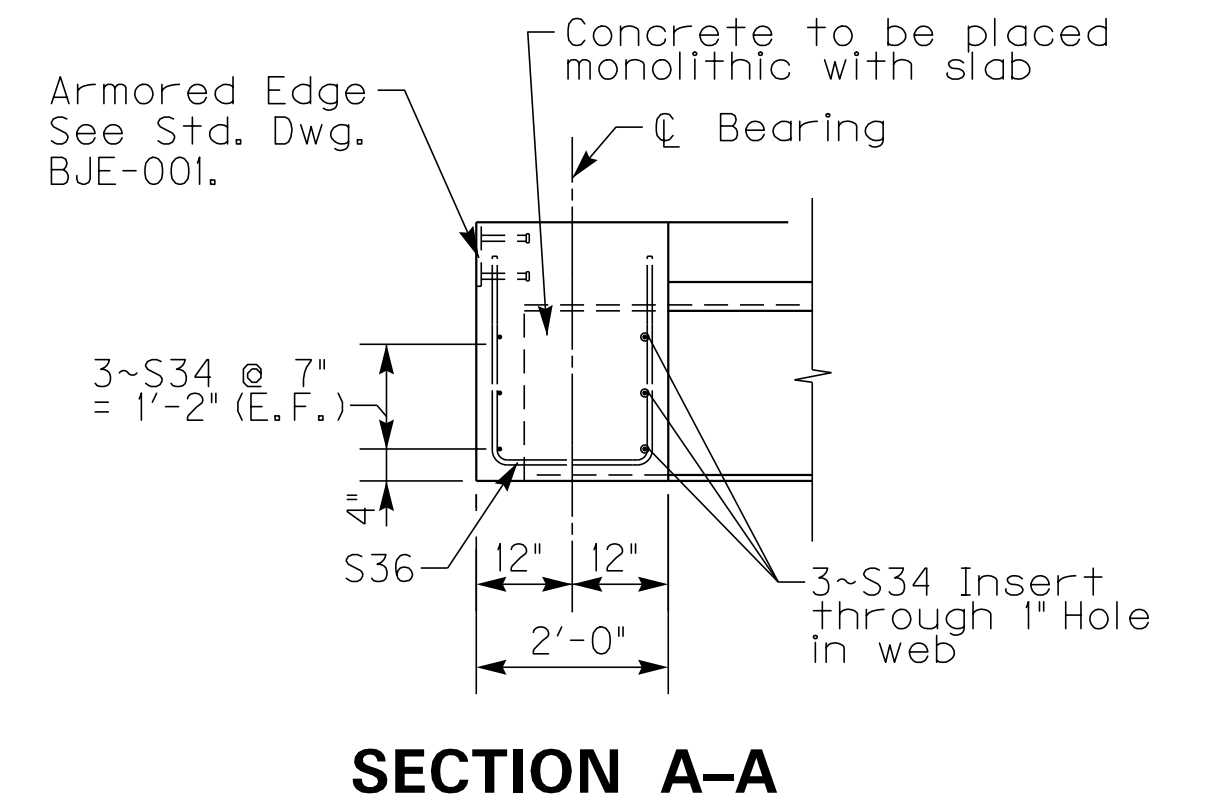
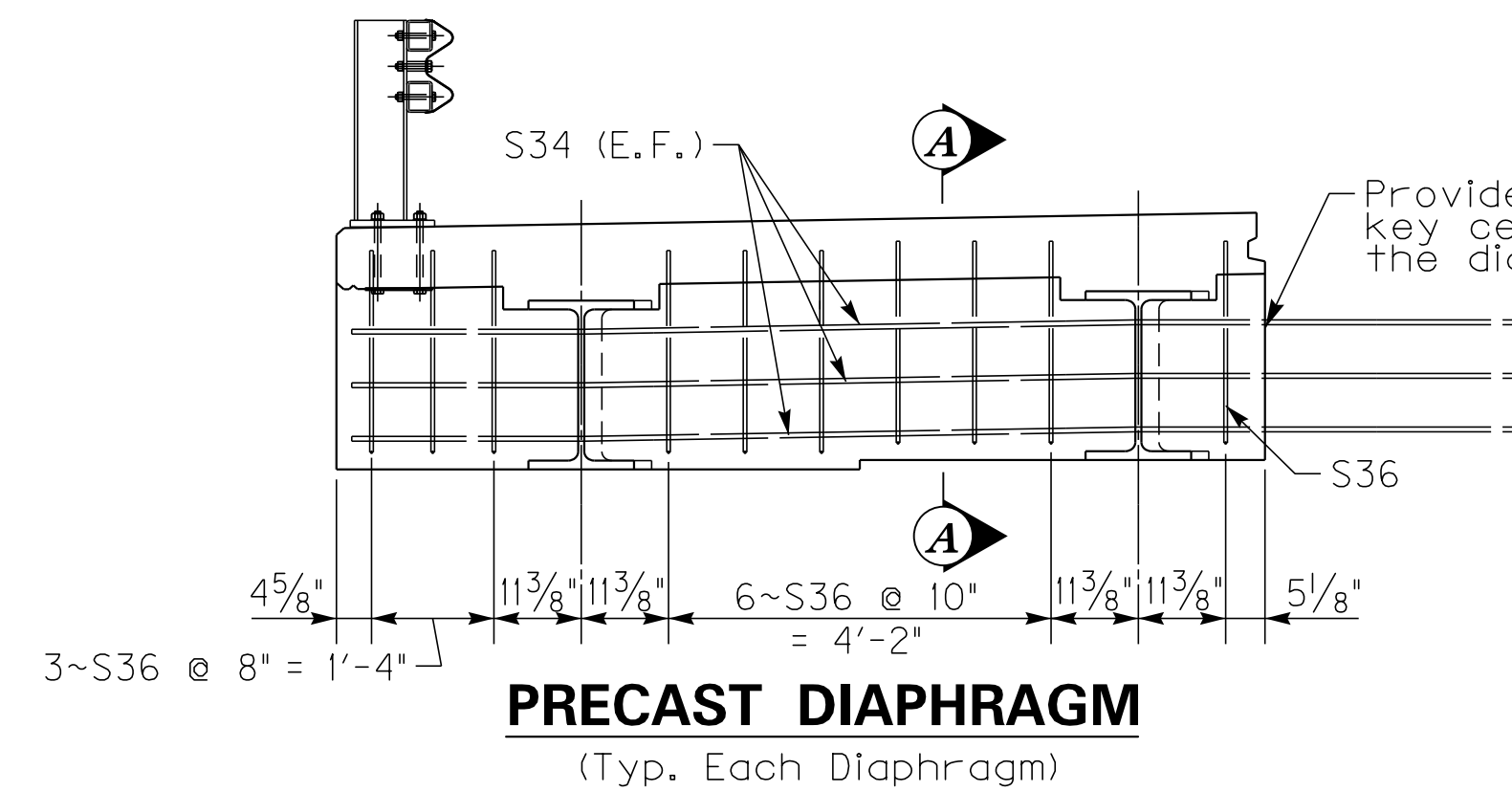
PLAN OF PRECAST BRIDGE SEGMENT #1



SLAB KEY DETAIL



TYPICAL SECTION THROUGH PRECAST BRIDGE SEGMENT #1



- Notes: 1.) Diaphragm stirrups are to project into the slab regardless of slab forming method.
2.) Place stirrup bars parallel to face of beams.

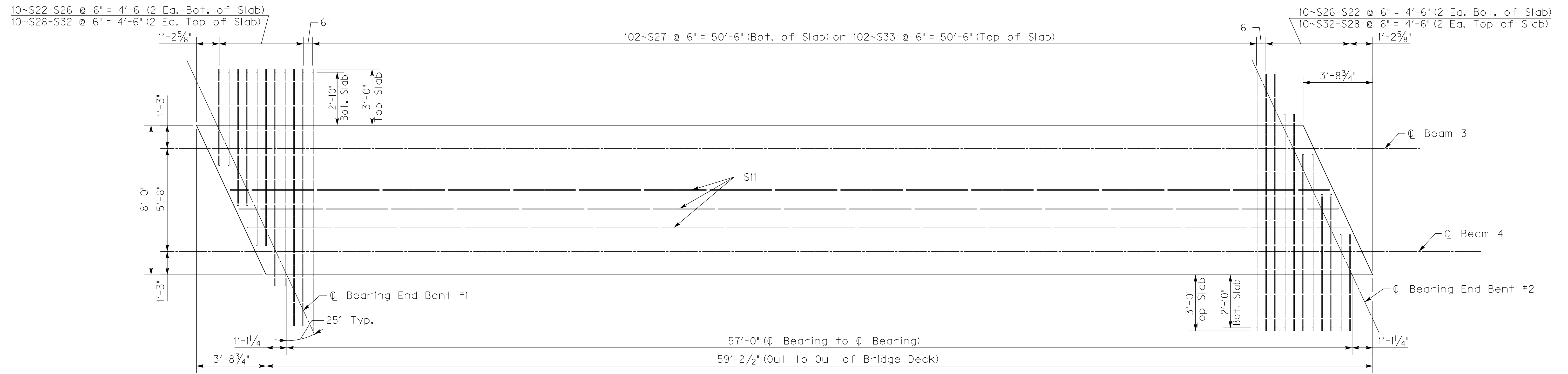
REVISION		DATE
DATE: June 2013		
DESIGNED BY: Joseph Van Zee		CHECKED BY: Carl Van Zee
DETAILED BY: Joseph Van Zee		
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY KNOX		
ROUTE KY 6	CROSSING LYNN CAMP CREEK	
SUPERSTRUCTURE		
ITEM NUMBER		PREPARED BY
11-1075.00		Division of Structural Design
SHEET NO.		DRAWING NO.
26816		26816

FILE NAME: C:\Users\Kevin.Sandefur\Desktop\26816.dgn

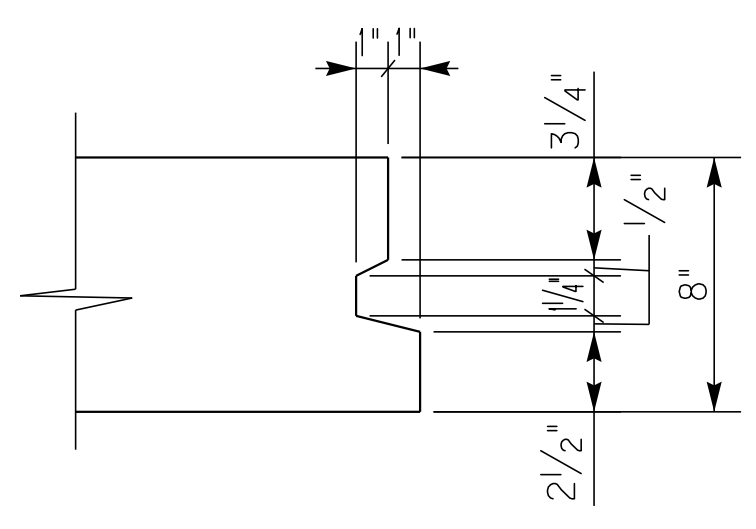
USER: Kevin.Sandefur
DATE PLOTTED: 09-AUG-2013

E-SHEET NAME: 26816-S1

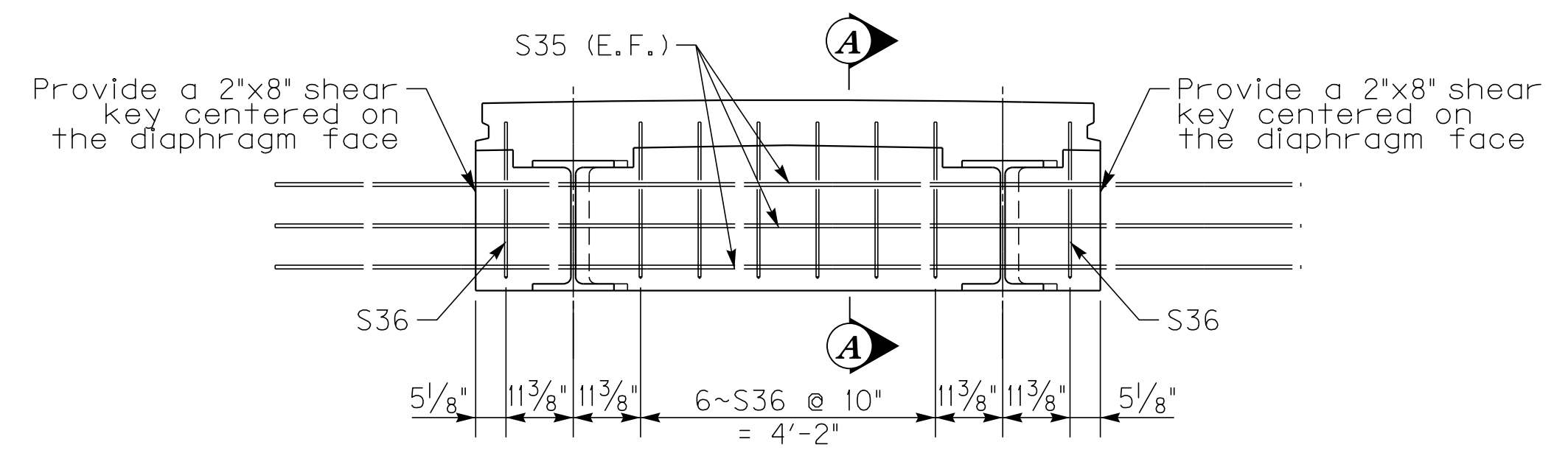
MicroStation v8.11.7.180



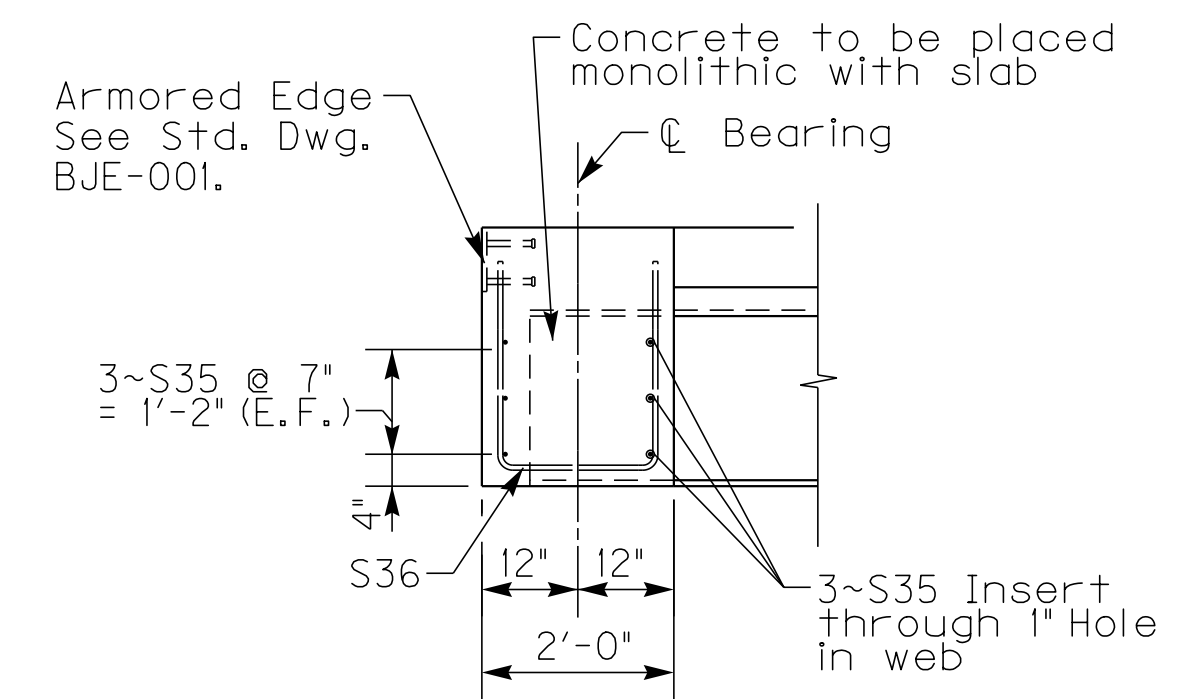
PLAN OF PRECAST BRIDGE SEGMENT #2



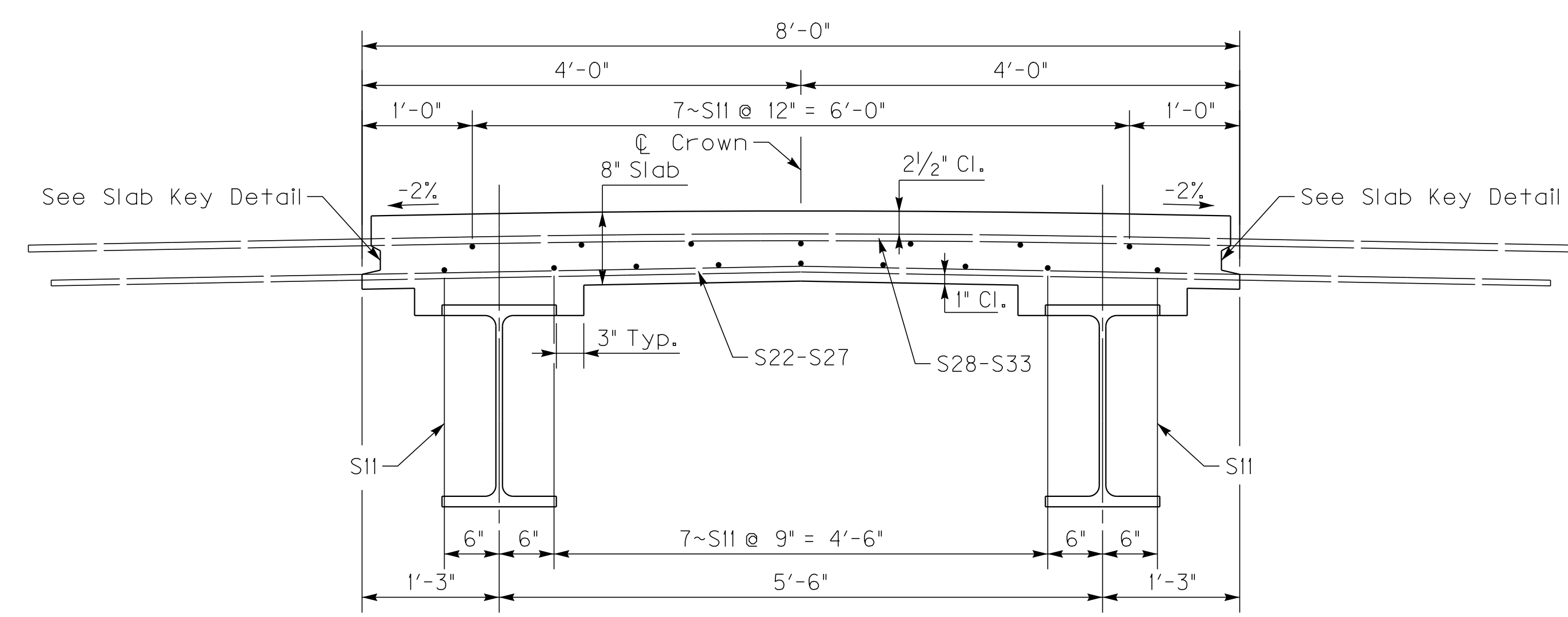
SLAB KEY DETAIL



PRECAST DIAPHRAGM
(Typ. Each Diaphragm)



SECTION A-A



TYPICAL SECTION THROUGH PRECAST BRIDGE SEGMENT #2

- Notes: 1.) Diaphragm stirrups are to project into the slab regardless of slab forming method.
2.) Place stirrup bars parallel to face of beams.

REVISION	DATE

DATE: June 2013
DESIGNED BY: Joseph Van Zee
CHECKED BY: Carl Van Zee
DETAILED BY: Joseph Van Zee

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY
KNOX

ROUTE **KY 6** CROSSING **LYNN CAMP CREEK**

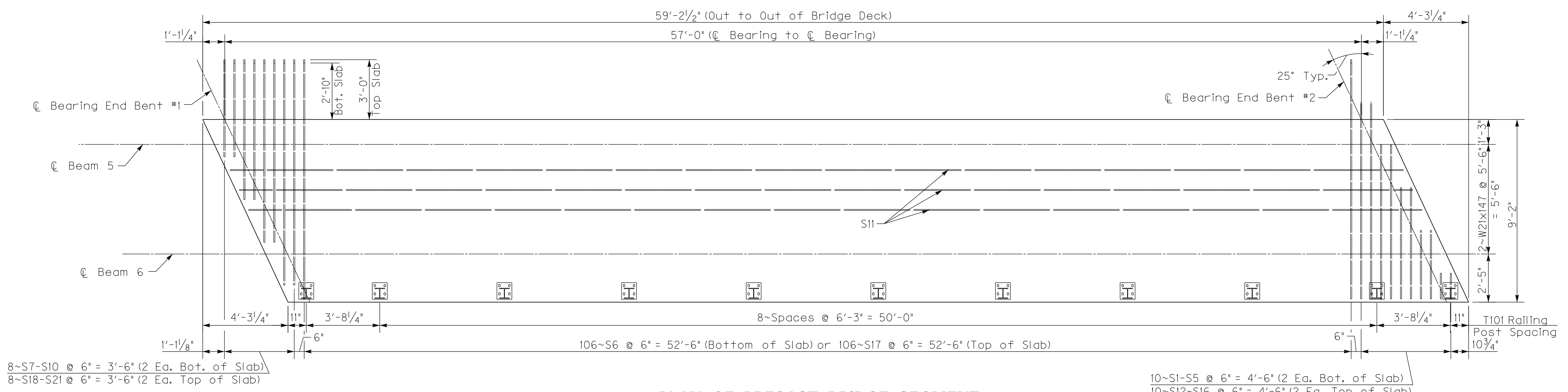
SUPERSTRUCTURE

PREPARED BY
Division of Structural Design

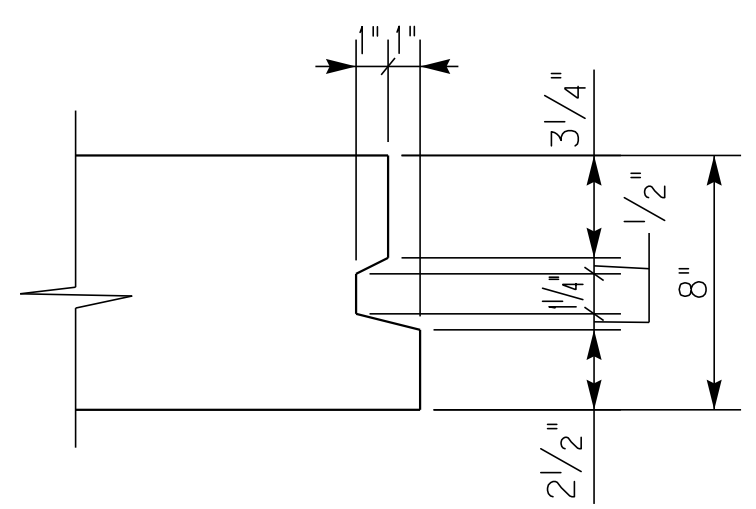
SHEET NO.
S10
DRAWING NO.
26816

ITEM NUMBER	11-1075.00
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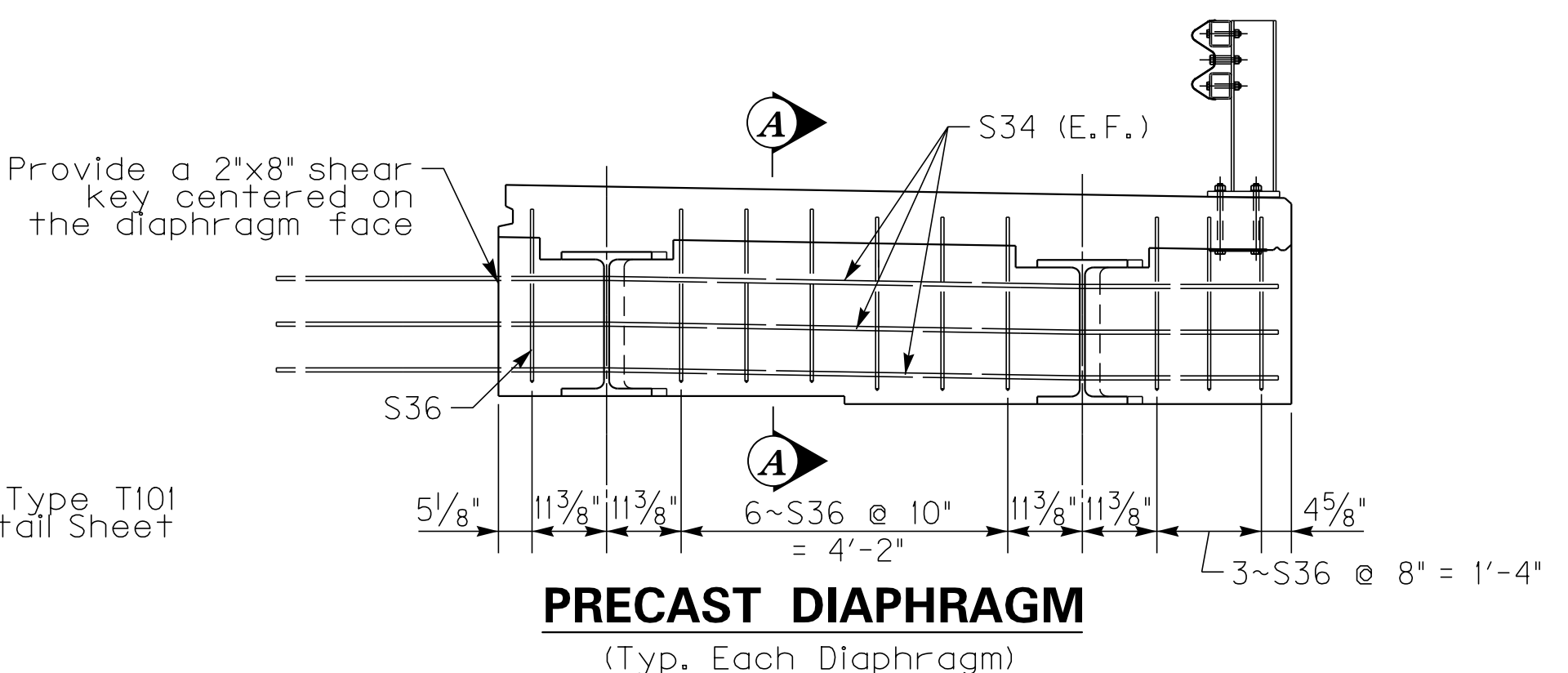
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 USER: Kevin.Sandefur
 DATE PLOTTED: 09-AUG-2013
 E-SHEET NAME: 26816-S1
 E-SHEET NO.: 7.180
 MicroStation v8.11.7.180



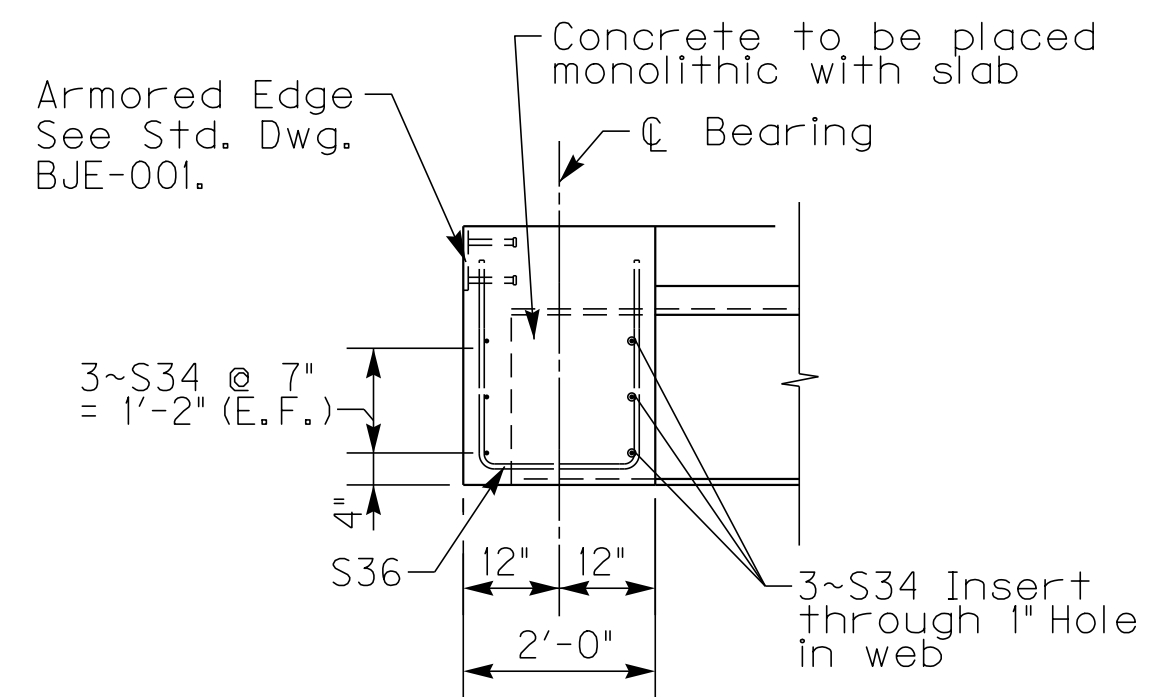
PLAN OF PRECAST BRIDGE SEGMENT #3



SLAB KEY DETAIL

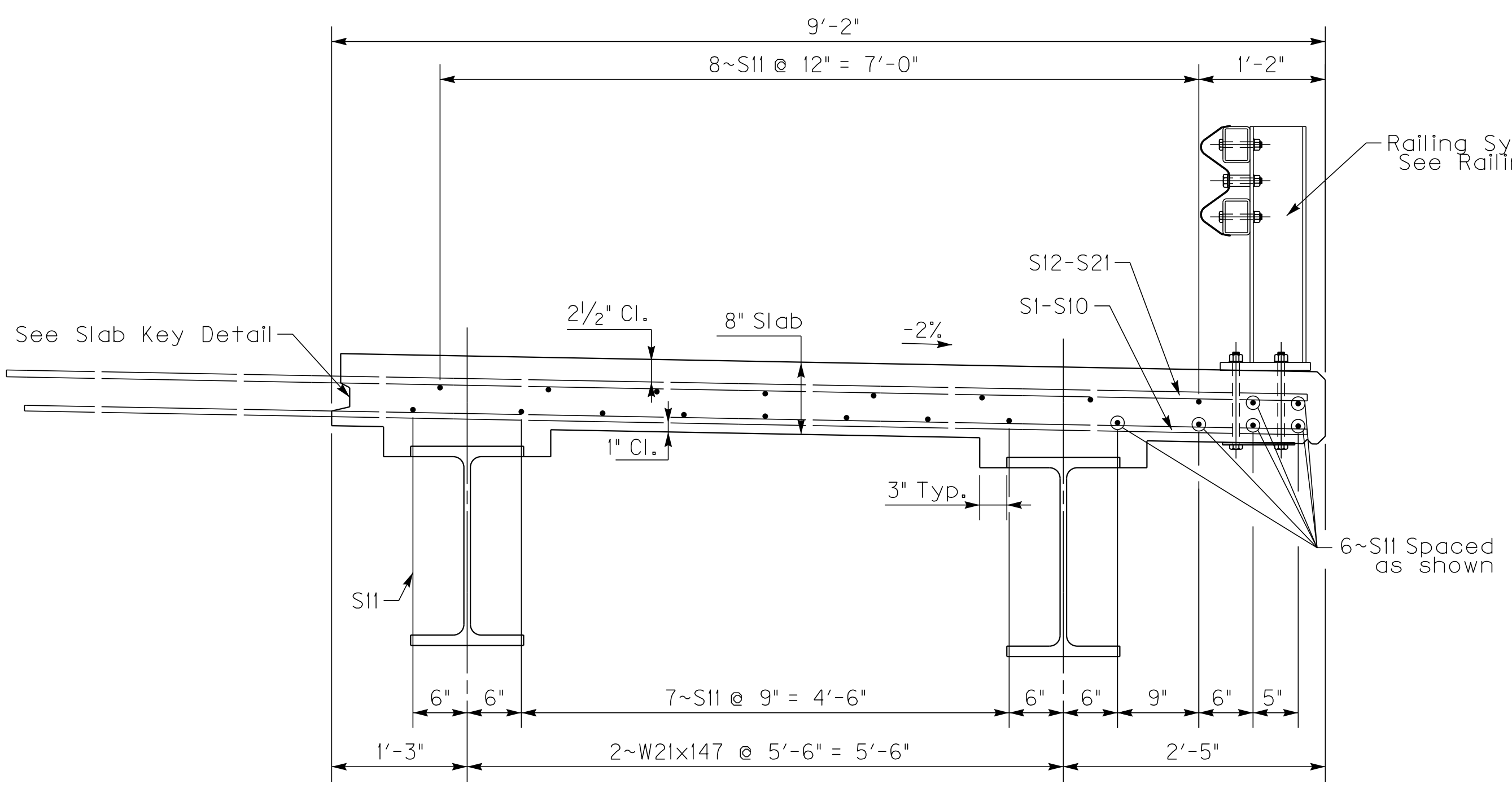


PRECAST DIAPHRAGM
(Typ. Each Diaphragm)



SECTION A-A

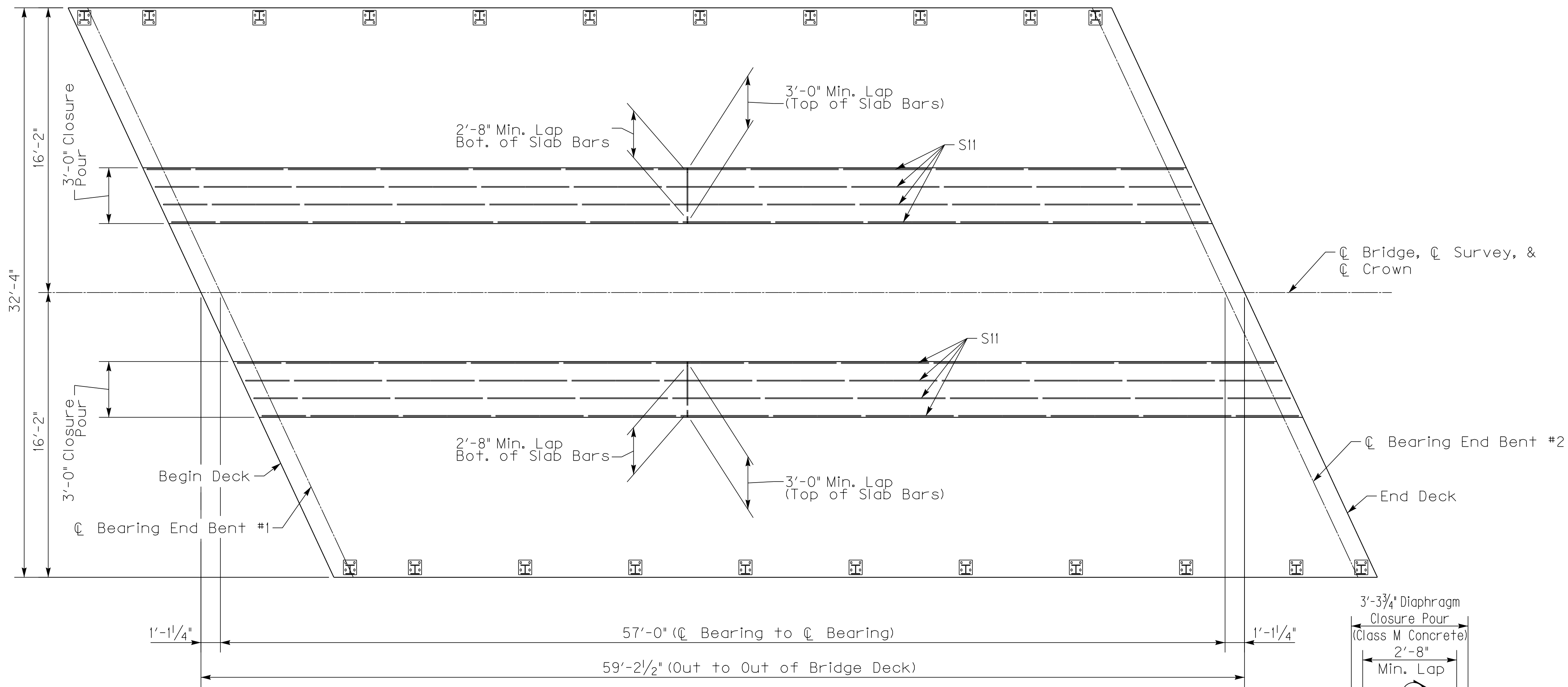
- Notes: 1.) Diaphragm stirrups are to project into the slab regardless of slab forming method.
 2.) Place stirrup bars parallel to face of beams.



TYPICAL SECTION THROUGH PRECAST BRIDGE SEGMENT #3

REVISION	DATE
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS <small>COUNTY</small> KNOX	
ROUTE KY 6	CROSSING LYNN CAMP CREEK
SUPERSTRUCTURE	
PREPARED BY	
Division of Structural Design	
ITEM NUMBER 11-1075.00	SHEET NO. S11 DRAWING NO. 26816

FILE NAME: C:\Users\Kevin.Sandefur\Desktop\26816.dgn
 USER: Kevin.Sandefur
 DATE PLOTTED: 09-AUG-2013
 E-SHEET NAME: 26816-S1
 MicroStation v8.11.7.180

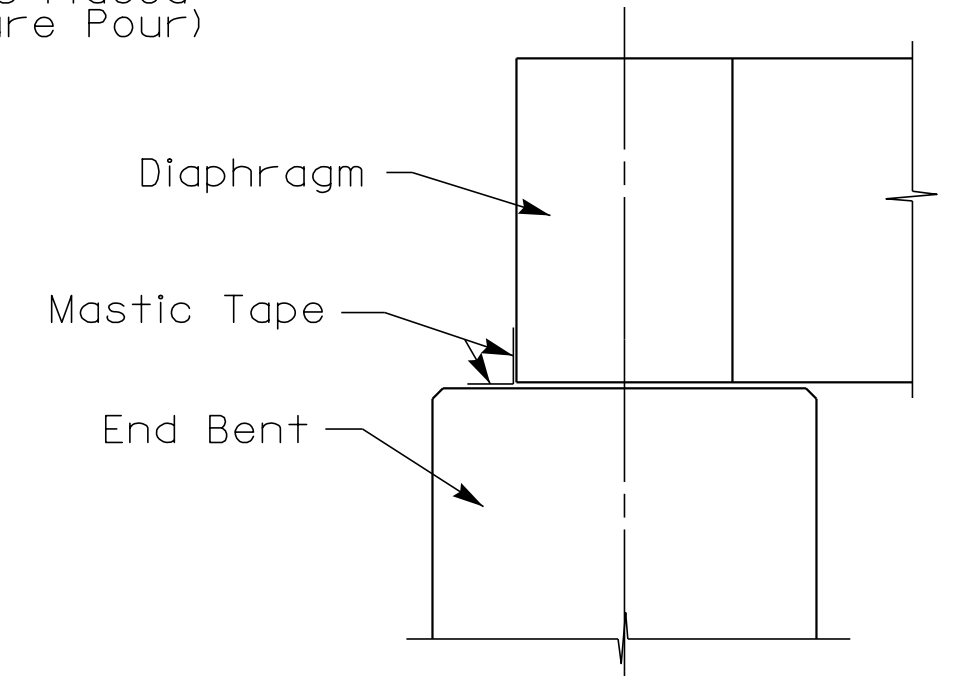


PLAN OF BRIDGE

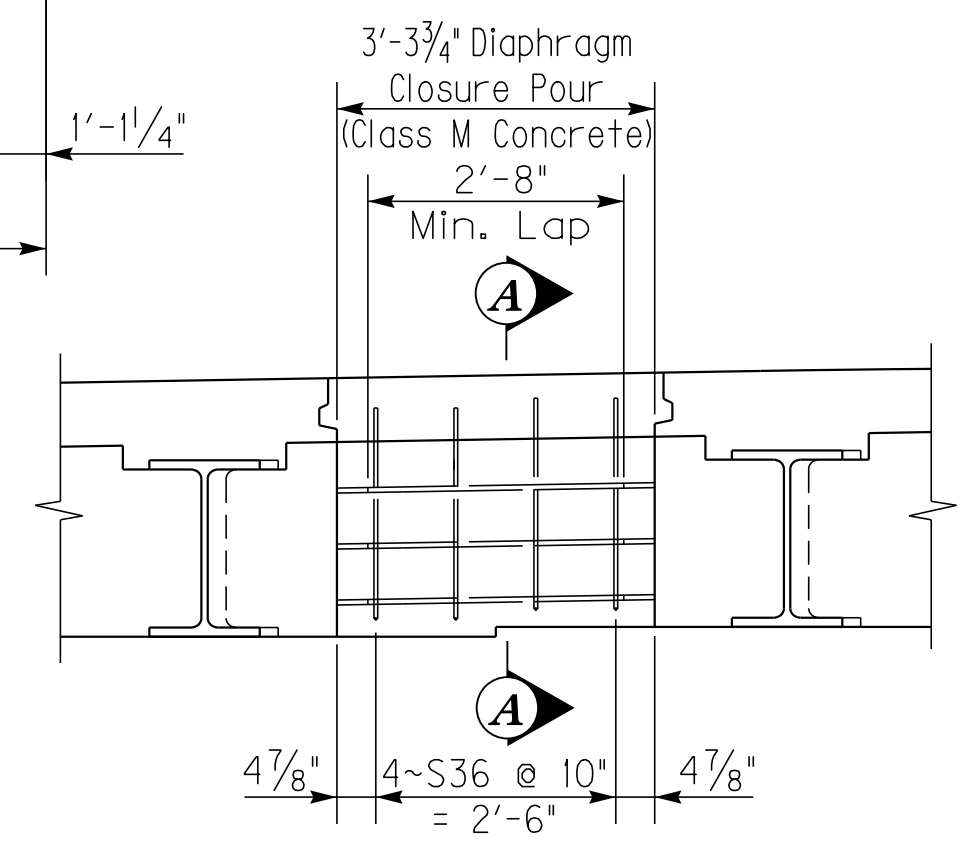
(Showing Bars Placed Before Closure Pour)

PRECAST NOTES

- 1). Provide the armored edge in 5 sections on each end. The closure pour piece may be field welded to the adjacent armored edge attached to the precast segments.
- 2). The contractor is required to have a Professional Engineer, licensed to practice in Kentucky, design lifting loops for the precast segments. Submit for approval the following items to the Division of Structural Design: lifting loop design, proposed treatment of lifting loops after the segment is placed, and a proposed crane layout showing number of cables used, number of cranes, location of cranes, etc.
- 3). Transverse rebar in the deck and diaphragms are detailed with lap splices. The contractor may elect to use mechanical splices with the cost being incidental to the price bid for steel reinforcement, galvanized.
- 4). Transverse rebar in the deck and diaphragms may not be bent over for clearance issues during transportation.



END OF SECTION DETAIL

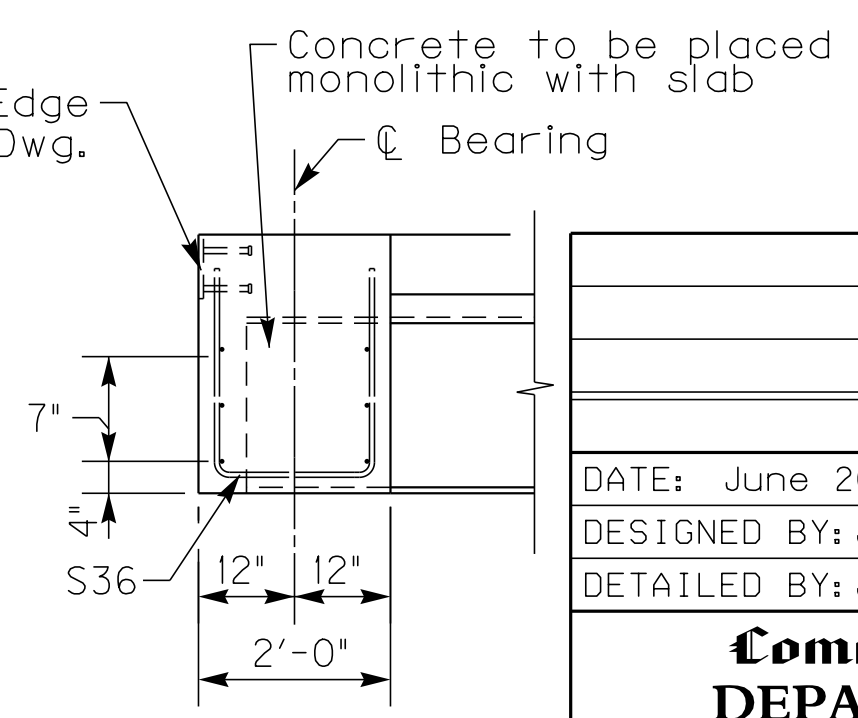


END BENT DIAPHRAGM

(Showing Bars Placed Before Closure Pour, Typ. Each Diaphragm)

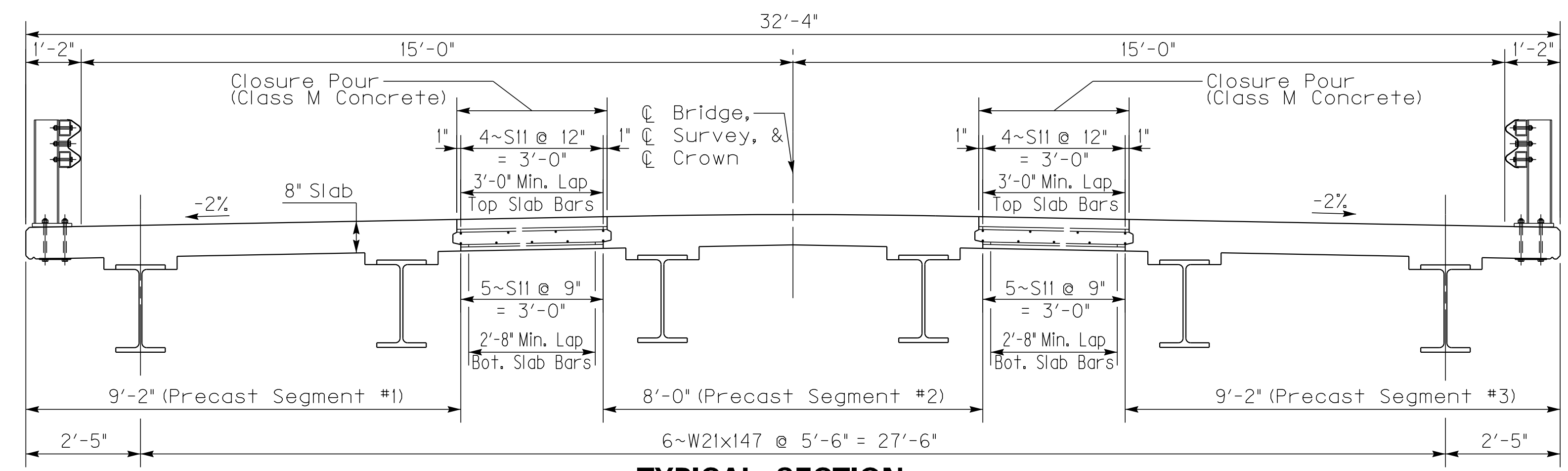
Note:
 The contractor shall provide 12" wide mastic tape to waterproof the joint between diaphragm & End Bent (both horizontal & vertical).
 The cost of the mastic tape shall be incidental to class AA concrete.

Armored Edge See Std. Dwg. BJE-001.



SECTION A-A

- Notes:
- 1.) Diaphragm stirrups are to project into the slab regardless of slab forming method.
 - 2.) Place stirrup bars parallel to face of beams.

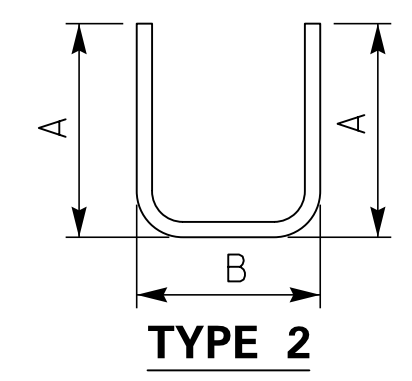


TYPICAL SECTION

(Showing Bars Placed Before Closure Pour)

BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B
S1g	Str.	4	5	1-3	Bottom Slab		
S2g	Str.	4	5	3-5	Bottom Slab		
S3g	Str.	4	5	5-6	Bottom Slab		
S4g	Str.	4	5	7-8	Bottom Slab		
S5g	Str.	4	5	9-10	Bottom Slab		
S6g	Str.	212	5	11-10	Bottom Slab		
S7g	Str.	4	5	11-1	Bottom Slab		
S8g	Str.	4	5	9-0	Bottom Slab		
S9g	Str.	4	5	6-10	Bottom Slab		
S10g	Str.	4	5	4-8	Bottom Slab		
S11g	Str.	78	5	58-10	Slab Longitudinal		
S12g	Str.	4	6	1-3	Top Slab		
S13g	Str.	4	6	3-5	Top Slab		
S14g	Str.	4	6	5-6	Top Slab		
S15g	Str.	4	6	7-8	Top Slab		
S16g	Str.	4	6	9-10	Top Slab		
S17g	Str.	212	6	12-0	Top Slab		
S18g	Str.	4	6	11-3	Top Slab		
S19g	Str.	4	6	9-2	Top Slab		
S20g	Str.	4	6	7-0	Top Slab		
S21g	Str.	4	6	4-10	Top Slab		
S22g	Str.	4	5	4-11	Bottom Slab		
S23g	Str.	4	5	7-1	Bottom Slab		
S24g	Str.	4	5	9-3	Bottom Slab		
S25g	Str.	4	5	11-5	Bottom Slab		
S26g	Str.	4	5	13-6	Bottom Slab		
S27g	Str.	102	5	13-8	Bottom Slab		
S28g	Str.	4	6	5-1	Top Slab		
S29g	Str.	4	6	7-3	Top Slab		
S30g	Str.	4	6	9-5	Top Slab		
S31g	Str.	4	6	11-7	Top Slab		
S32g	Str.	4	6	13-8	Top Slab		
S33g	Str.	102	6	14-0	Top Slab		
S34g	Str.	24	5	13-0	Diaphragm		
S35g	Str.	12	5	15-0	Diaphragm		
S36g	2s	72	5	5-11	Diaphragm	2-2	1-10



TYPE 2

ITEM NUMBER	11-1075.00
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REVISION		DATE
DATE: June 2013	CHECKED BY: Carl Van Zee	
DESIGNED BY: Joseph Van Zee		
DETAILED BY: Joseph Van Zee		
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY KNOX		
ROUTE KY 6	CROSSING LYNN CAMP CREEK	
SUPERSTRUCTURE		
PREPARED BY		SHEET NO. S12
Division of Structural Design		DRAWING NO. 26816