

**TYPICAL END @  
ABUTMENTS**

**NEXT BEAM D REINFORCEMENT PLAN**  
(BEAM 1, SPAN 1 SHOWN, BEAMS 2, 3 AND 4 AND SPANS 2 AND 3 SIMILAR)  
SCALE: 1"=1'-0"

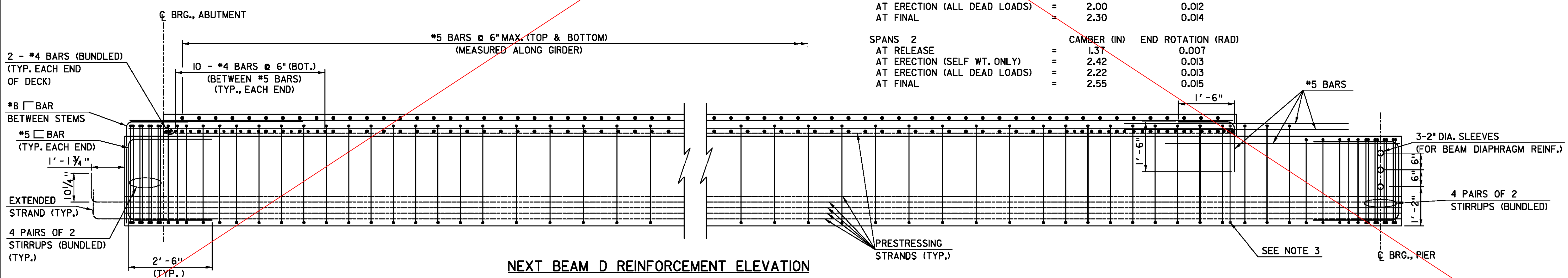
**TYPICAL END @  
PIERS**

**NOTES:**

1. BEAM REINFORCEMENT DETAILED IN PLAN AND ELEVATION IS TYPICAL ABOUT THE MIDSPAN OF EACH BEAM.
2. SEE 'NEXT D BEAM DETAILS (3 OF 3)' SHEET FOR PRESTRESSING STRAND LAYOUT AND DEBONDING.
3. PLACE EXTRA STIRRUP AT END OF COPED FLANGE (PIER ENDS ONLY).
4. PREDICTED BEAM CAMBER AND END ROTATION:
5. ACTUAL BEAM CAMBER AND END ROTATIONS MAY VARY DUE TO CONSTRUCTION TOLERANCES.
6. PREDICTED LONG-TERM BEAM CAMBERS AND DEFLECTIONS ARE ESTIMATED PREDICTED VALUES BASED ON TABLE 4.6.2. SUGGESTED MULTIPLIERS TO BE USED AS A GUIDE IN ESTIMATING LONG-TERM CAMBERS AND DEFLECTIONS FOR TYPICAL MEMBERS OF THE PCI DESIGN HANDBOOK, 4TH EDITION.

SPANS 1 & 3	CAMBER (IN)	END ROTATION (RAD)
AT RELEASE	= 1.23	0.007
AT ERECTION (SELF WT. ONLY)	= 2.18	0.013
AT ERECTION (ALL DEAD LOADS)	= 2.00	0.012
AT FINAL	= 2.30	0.014

SPANS 2	CAMBER (IN)	END ROTATION (RAD)
AT RELEASE	= 1.37	0.007
AT ERECTION (SELF WT. ONLY)	= 2.42	0.013
AT ERECTION (ALL DEAD LOADS)	= 2.22	0.013
AT FINAL	= 2.55	0.015



**NEXT BEAM D REINFORCEMENT ELEVATION**  
NOTE: #4 HAIRPIN SHEAR KEY BARS NOT SHOWN FOR CLARITY  
SCALE: 1"=1'-0"

PROJECT NAME: ROCKINGHAM  
PROJECT NUMBER: BRF 0126(12)  
FILE NAME: z10J072bdr\_girder\_2.dgn  
PROJECT LEADER: R. HEBERT  
DESIGNED BY: S. KELLER  
NEXT D BEAM DETAILS (2 OF 3)  
PLOT DATE: 8/26/2014  
DRAWN BY: D. AXTELL  
CHECKED BY: T. POULIN  
SHEET 28 OF 69

**TYLIN** INTERNATIONAL