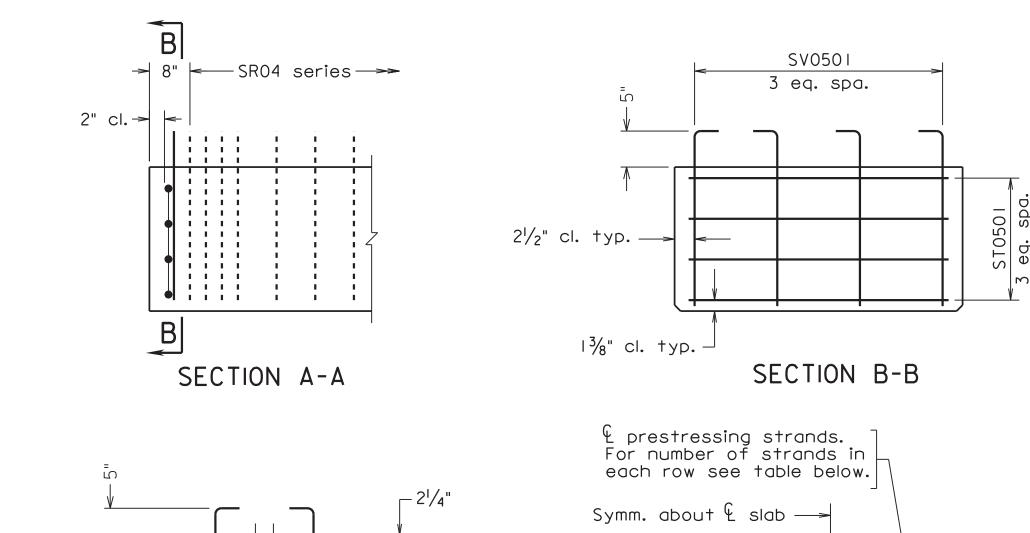
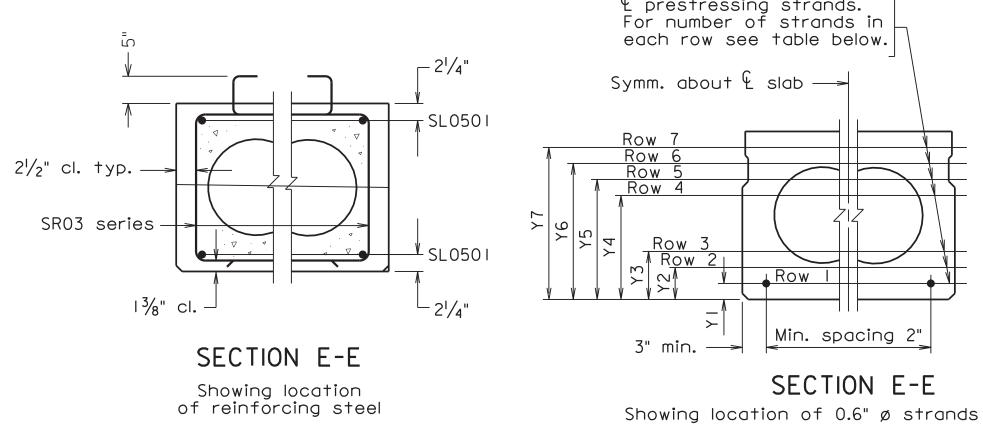
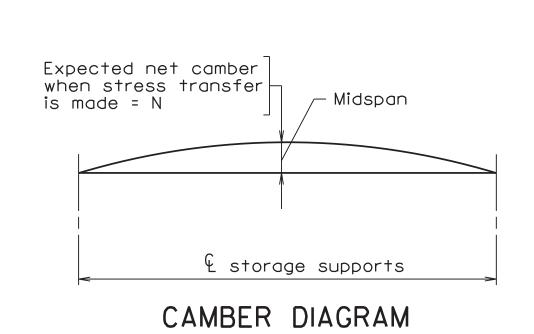


PART PLAN OF BEARINGS





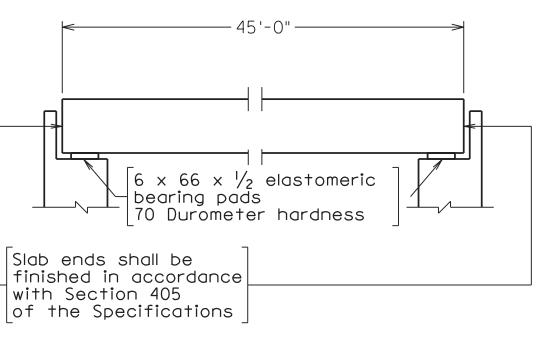


PRESTRESSING STEEL DATA TABLE																		
Strand Type	Slab Size	No. of Strands														Total number	Prestressing	Net camber
		Row	Row	Row	Row	Row	Row	Row	ΥI	Y2	Y3	Y4	Y5	Y6	Y7	of strands	force per	N
		I	2	3	4	5	6	7	in.	per slab	strand-lbs.	in.						
0.6" ø Low - Relaxation Strands	4'-0" × 21"	15	4					5	2	4					18	24	43,942	5/8
		2 of the strands in row I shall be debonded at both ends for 3'-0"																

- Face of exterior slab L8 \times 6 \times $\frac{3}{4}$ \times 10" $\frac{1}{16}$ " min. thick elastomeric pad To be parallel to slab ℓ 2 - $\frac{7}{8}$ " ø bolts $1\frac{1}{2}$ " min. $\frac{1}{2} \times 4 \times 5$ washer PL bevel as needed $2\frac{3}{4}$ " min. --Top of bridge seat Threaded insert for $\frac{7}{8}$ " ø bolt SECTION A-A VIEW B-B Threaded insert for $\frac{7}{8}$ " ø bolt © 1¾" ø hole in washer PL 2¹/₂" $|\hat{k}| = 1\frac{3}{4}$ " × 3" slot in plate for $1\frac{1}{2}$ " ø swedged anchor bolt set 15" in masonry. Drill and grout anchor bolt after placement of slab. Center anchor bolt on centerline of bearings. anchor. typ. Non rigid tubing typ. -

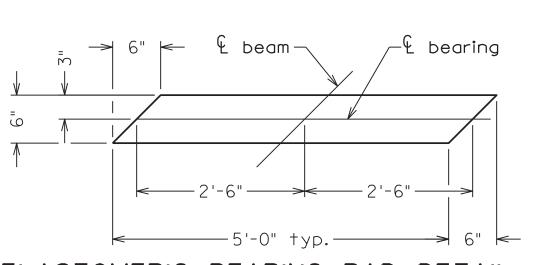
ANCHOR DETAIL

Note: For locations of anchorage, See Sheet B-II.



PLAN

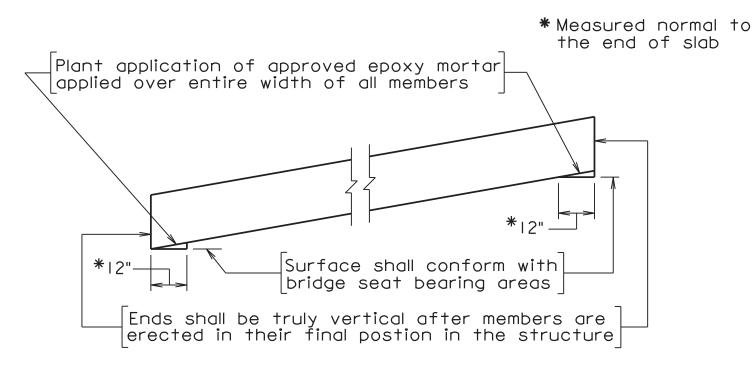
SECTION F-F



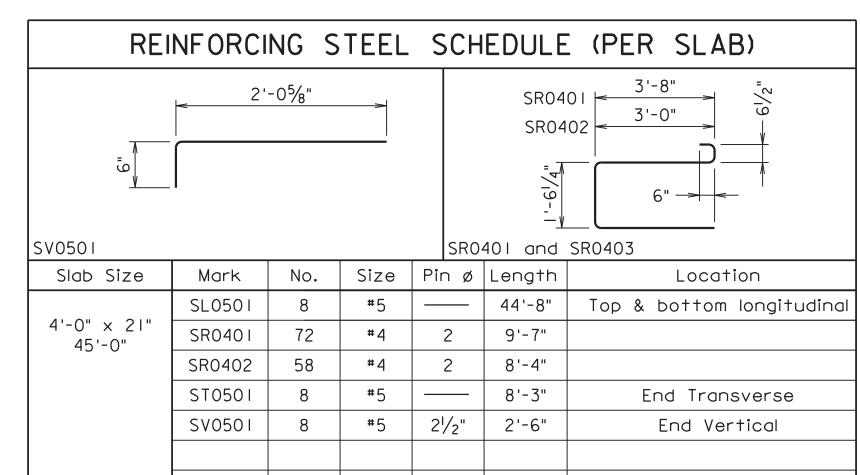
ELASTOMERIC BEARING PAD DETAIL



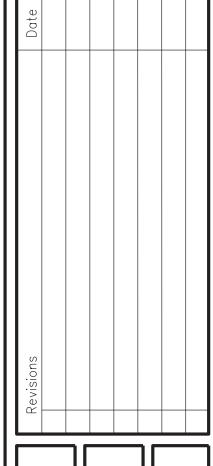
- In lieu of splicing several reinforcing bars to form each stirrup, the stirrup may be made from one single bar.
- 2. All reinforcing bars shall be Corrosion Resistant Reinforcing Steel, Class I.
- 3. Slab corners damaged during construction shall be restored to their shape as shown on the plans by an approved epoxy mortar.
- 4. All steel in Anchor Detail except stud shear connectors shall be ASTM A709 grade 36 and shall be hot dipped galvanized.
- 5. The Contractor shall submit prestressing strand pattern to the Engineer for approval.
- 6. Anchor may be shifted as approved by the Engineer to provide minimum concrete cover of 2" for threaded inserts.
- 7. Threaded inserts when embedded as shown shall develop full strength of $\slash_8"$ ø threaded bolt.
- 8. H.S. bolts installed in threaded inserts shall be tightened to a snug tight condition as defined in Section 407 of the VDOT Road and Bridge Specifications. Rotational capacity test will not be required.
- 9. All threaded inserts shall be Dayton Superior F-62 Flared Thin Slab Ferrule NC threaded insert or approved equal having a minimum mechanical ultimate tensile strength of 8,000 lbs.
- 10. Due to construction tolerances, adjustment to the bridge seat elevations may be needed. It is the Contractor's responsibility to make such adjustment as directed by the Engineer to insure the full bearing of the slab on all the pads. Cost of adjustment shall be included in other bid items.
- II. Top surface of all slabs shall be roughened with $\frac{1}{4}$ profile.



SLABS ON GRADIENT IN EXCESS OF 1%







Drawn By: DKA
Designed By: MLF
Checked By: CMT
Date: 03/10/17

Mattern & Craig ENGINEERS • SURVEYORS
701 FIRST STREET, S.W. ROANOKE, VIRGINIA 24016
(540) 345-9342

COMPREHENSIVE DEVELOPMENT PLAN

by Adrian Gilbert 03/15/2018

BERKLEY ROAD OVER GLADE CREEK TRIBUTARY A
SUPERSTRUCTURE

Vertical Scale:

orizontal Scale: AS NOTED

ommission Number: 34301

Sheet No.:

B-12