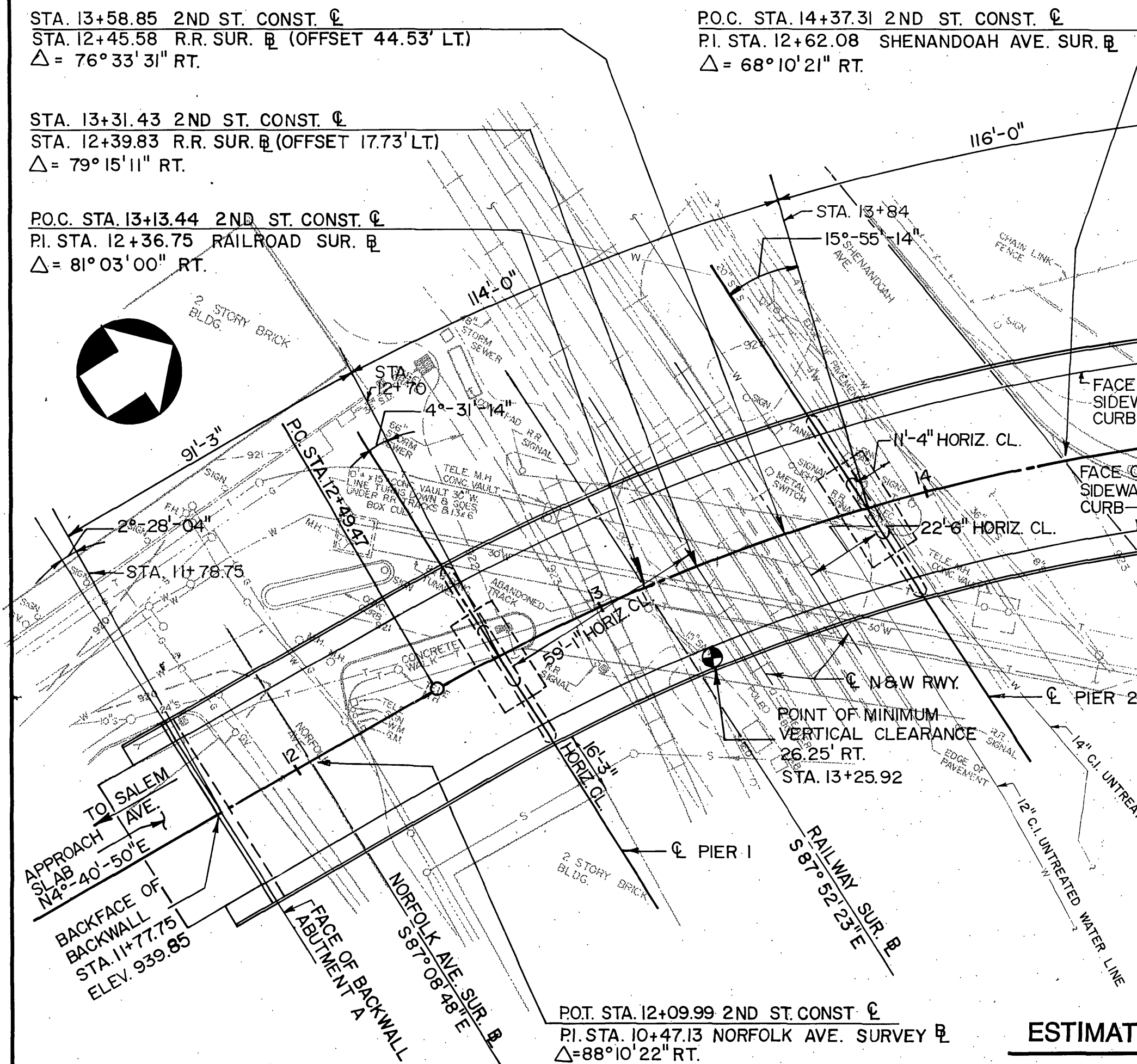
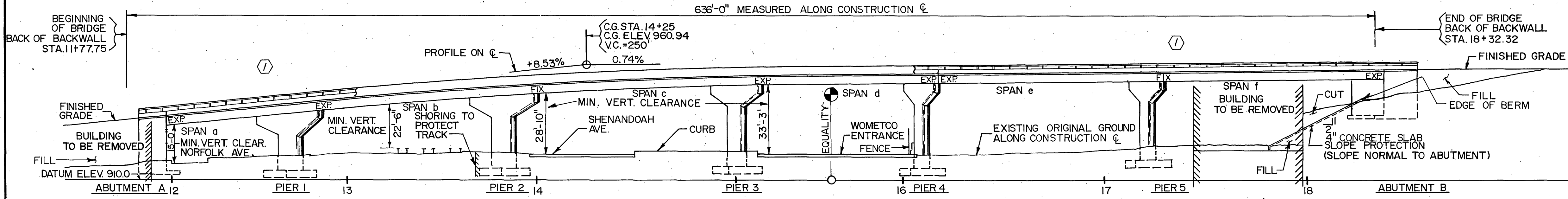


FHWA REGION	STATE	FEDERAL AID ROUTE	PROJECT	STATE ROUTE	PROJECT	SHEET NO.
3	VA.			U000-128-116, PE101, B610		11 (1)



ESTIMATED QUANTITIES

	CONCRETE		REINFORCING STEEL	EPOXY COATED REINFORCING STEEL	STRUCTURAL STEEL	RAILING, STEEL	BRIDGE DECK GROOVING	CONCRETE SLAB SLOPE PROTECTION, 4"	STRUCTURE EXCAVATION	POROUS BACKFILL	PREFORMED ELASTOMERIC JOINT SEALER, 3"	ELASTOMERIC EXPANSION DAM	TOOTH EXPANSION JOINT, TOOTH THICKNESS 1-1/4"		
	CLASS A3	CLASS A4	LBS.	LBS.	LBS. *	L.F.	S.Y.	S.Y.	C.Y.	C.Y.	L.F. ⊗	L.F. ⊗	L.F. ⊗		
SUPERSTRUCTURE		1221.1		245130 ⊗	1209600	12.68	3392			87	63	61	63		
ABUTMENT A NEAT	193.4			36,250		27.5									
PIER 1 NEAT	103.0		12700						975						
PIER 2 NEAT	46.2	54.0	28220												
PIER 3 NEAT	59.6		10280						229						
PIER 4 NEAT	62.9	55.7	31780						242						
PIER 5 NEAT	66.7		10730						232						
ABUTMENT B NEAT	70.9	56.5	33220						428						
PIER 1 FOOTING	85.6		12020												
PIER 2 FOOTING	81.0	55.4	15560	16510											
PIER 3 FOOTING	51.4		9330												
PIER 4 FOOTING	86.6	55.6	35540												
PIER 5 FOOTING	99.1		12310												
ABUTMENT B FOOTING	127.4			22,280		27.5			69						
TOTAL	1206.5	1498.3	216740	320,170	1209600	1323	3392	423	3020	156	63	61	63		

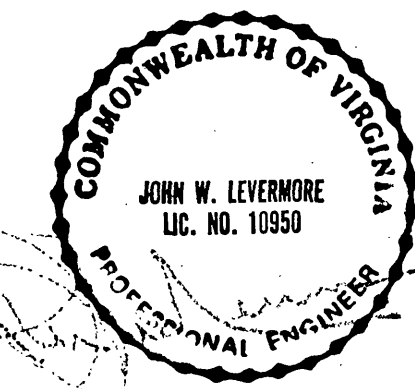
⊗ ITEMS TO BE PAID FOR ON BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH CURRENT ROAD AND BRIDGE SPECIFICATIONS.

* LUMP SUM INCLUDES 33,537 LBS. ASTM A709, GRADE 50. DECK DRAINAGE SYSTEM - LUMP SUM - INCLUDES DRAIN ASSEMBLIES, DRAIN PIPES, DOWNSPOUTS AND PIPE SUPPORTS. FOR DETAILS, SEE SHEET 30. TEMPORARY BRACING FOR RAILWAY - LUMP SUM (INCLUDES FURNISHING, DRIVING AND REMOVAL OF TEMPORARY SHORING. FOR DETAILS, SEE SHEET 12.)

REVISIONS
For Table of Revisions, see Sheet 2.

GENERAL NOTES

- WIDTHS: 5'-6" SIDEWALK, 48'-0" ROADWAY, 5'-6" SIDEWALK, OVERALL WIDTH 59'-0", FACE-TO-FACE OF RAILS.
- SPAN LAYOUT: 91'-114'-94', 110'-110' FT. STEEL PLATE GIRDER SPANS. CAPACITY: HS20-44 LOADING AND ALTERNATE MILITARY LOADING.
- SPECIFICATIONS:
- CONSTRUCTION - VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, 1991.
 - DESIGN - AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1989, 1990, 1991 INTERIM SPECIFICATIONS AND VDOT MODIFICATIONS.
 - STANDARDS - VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS, 1989.
- THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. DESIGN LOADING INCLUDES 20 P.S.F. ALLOWANCE FOR CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS.
- ALL STRUCTURAL STEEL, EXCEPT IN BEARINGS, SHALL BE ASTM A709 GRADE 50. ALL STRUCTURAL STEEL IN BEARINGS SHALL BE ASTM A709, GRADE 36.
- FINISH PAINT SHALL BE GREY 595-26801.
- GIRDERS SHALL BE CURVED BY CUTTING THE FLANGES TO PROPER CURVATURE.
- CONCRETE IN SUPERSTRUCTURE INCLUDING SIDEWALKS AND PIER CAPS SHALL BE CLASS A4; IN ABUTMENTS AND REMAINDER OF PIERS, CLASS A3.
- DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60; TIE BARS IN PIER COLUMNS MAY BE GRADE 40. ALL REINFORCING BAR DIMENSIONS ON THE DETAILED DRAWINGS ARE TO CENTERS OF BARS EXCEPT WHERE OTHERWISE NOTED AND ARE SUBJECT TO FABRICATION AND CONSTRUCTION TOLERANCES.
- FOOTINGS SHALL REST ON WEATHERED ROCK, AS APPROVED BY THE ENGINEER. BEARING CAPACITY OF FOUNDATION SHALL BE 4 TONS/SQ.FT., MINIMUM CONTINUOUS SPIRAL TIES MAY BE SUBSTITUTED FOR THE TIES SHOWN IN THE DETAILS OF PIER COLUMNS, PROVIDED THEY ARE PLACED AT AN EQUIVALENT DENSITY AND AT NO EXTRA COST TO THE STATE.
- STRUCTURAL APPROACH SLABS ARE NOT INCLUDED IN THE BRIDGE CONTRACT. B.M.: PAINTED BOLT ON FIRE HYDRANT AT CORNER SALEM AVENUE AND SECOND STREET, ELEVATION 921.04. SEE ROADWAY SHEET 3.
- ① DENOTES REVISION BY "MATTEN & CRAIG" TO MODIFY RAILING, 2/94.



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE ON
2ND ST., S.W./GAINSBORO RD. OVER N. & W. R.WY. & SHENANDOAH AVE.
CITY OF ROANOKE-0.1 MI. N. INT. SALEM AVE.
PROJ. U000-128-116, B610

Recommended for Approval: _____
State Structure and Bridge Engineer

Approved: _____
Chief Engineer

Date: _____ 268-49

COORDINATED: J. PARISS
SUPERVISED: O. ZAMAN
DESIGNED: E. BREKHUS, A. DURRANI
DRAWN: A. FRAZIER, M. HARRIS
CHECKED: A. DURRANI, E. BREKHUS