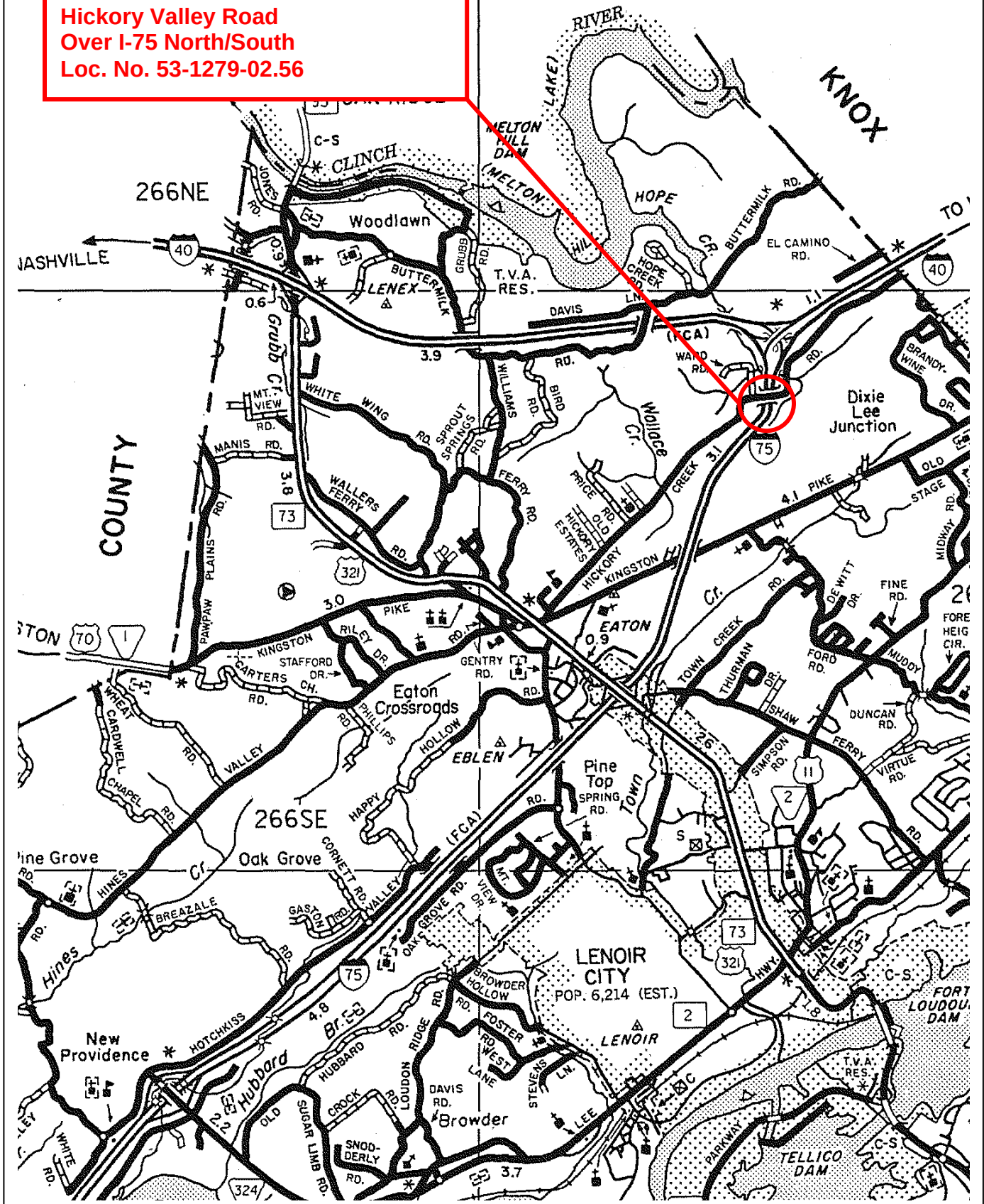


LOUDON COUNTY

ID No. 53100750037
Hickory Valley Road
Over I-75 North/South
Loc. No. 53-1279-02.56



GENERAL NOTES

SPECIFICATIONS: Standard Road & Bridge Specifications of the Tennessee Department of Highways & Public Works.
LOADING: H20-S16-44.
CONCRETE: To be Class "A".
REINFORCING STEEL: See Specifications.
FORMS & FINISH: See Specifications.
ROCK FOUNDATIONS: See Specifications.
PILES: In Abutments 1 & 2 - 10" B.P. @ 42"
 In Bents 2 & 3 - 10" B.P. @ 42"
SELF LUBRICATING PLATES: See Special Provisions

NOTE: Foundations for Bents shall be excavated to the Pile cut-off elevation shown; Rod soundings shall then be made as directed by the engineer. From the results obtained the Bridge engineer will decide if Piles will be used, or the footings carried to rock. The cost of rod soundings shall be included in the cost of items bid on. All piles shall be driven to rock or minimum bearing of 36 Tons for Bents & Abutments. When foundations for Bent 1 is uncovered, holes 4' deep shall be drilled into the rock at points designated by the engineer.

LIST OF DRAWINGS

DWG. No.	
F-10-47	HANDRAIL
G-1-91 & G-1-92	See Note this sheet.
G-1-93	SUPERSTRUCTURE
G-1-94	ABUTMENTS No. 1 & 2
G-1-95	BENTS No. 1, 2 & 3
G-1-96	PILE SPICE DETAIL

Handrail Note:
 Build Handrail according to Standard Drawing F-10-47 with post spacing as shown on Plan this sheet. Post spacings shown are same for both sides of Bridge.

SPECIAL NOTE

Interstate roadway grade will be lowered on construction to provide 14'-0" over the shoulder.

28'-0" ROADWAY WITH SAFETY CURBS

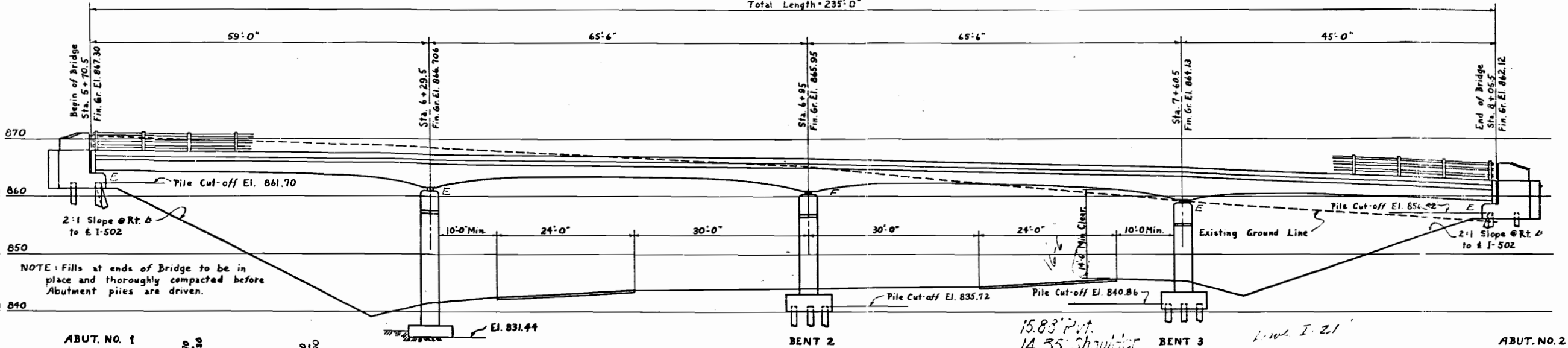
STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE
LAYOUT OF BRIDGE
HICKORY VALLEY ROAD
 OVER
INTERSTATE 502
 STA. 1286+50
 LOUDON COUNTY
 1958

CORRECTED *Fred Gume*
 APPROVED *Richard M. Talbot*
 STATE HIGHWAY ENGINEER

G-1-90

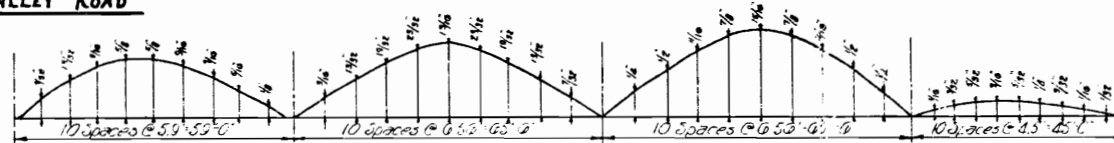
Total Length = 235'-0"

NOTE: E = Expansion
 F = Fixed



ELEVATION @ RT. 4 TO & HICKORY VALLEY ROAD

NOTE: Measured @ Rt. 4 to & I-502
 Scale: 1" = 10'

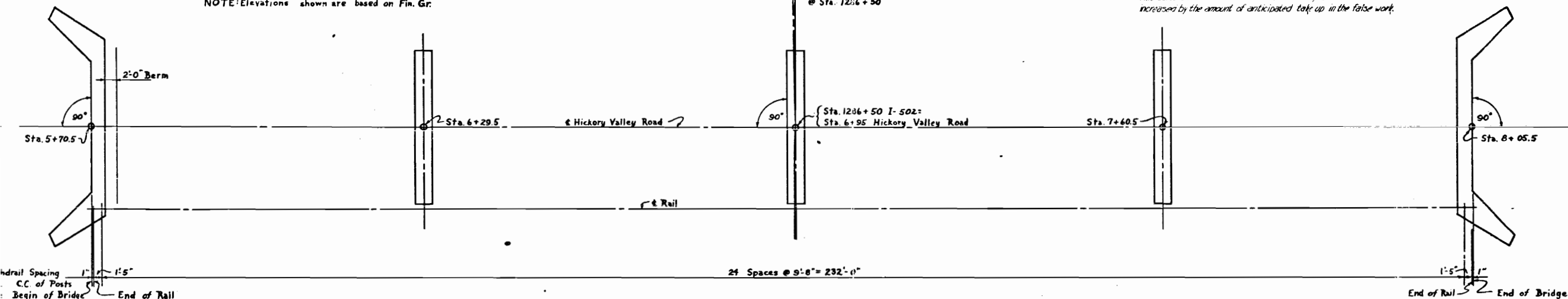


DEAD LOAD CAMBER CURVE

This curve shows the dead load camber only and should be increased by the amount of anticipated take up in the false work.

SKETCH SHOWING GRADES

NOTE: Elevations shown are based on Fin. Gr.



PLAN

ESTIMATED QUANTITIES

ITEM	Excavation - Cu. yds.		Concrete Class "A" Cu. yds.	Steel - lbs.		Bronze lbs.	Aluminum Handrail Lin. ft.	Rock Drill Lin. ft.	10" Steel Piles
	Dry	Rock		Reinforcing	Structural				
Superstructure			448.5	103637	3799	1328	470		
Abutment No. 1			23.4	1566					180
Abutment No. 2			23.4	1566					180
Bent No. 1	53	12	387	4512					
Bent No. 2	47		395	4258					170
Bent No. 3	49		34.1	3903					170
Totals	149	12	607.6	119442	3799	1328	470	12	2000

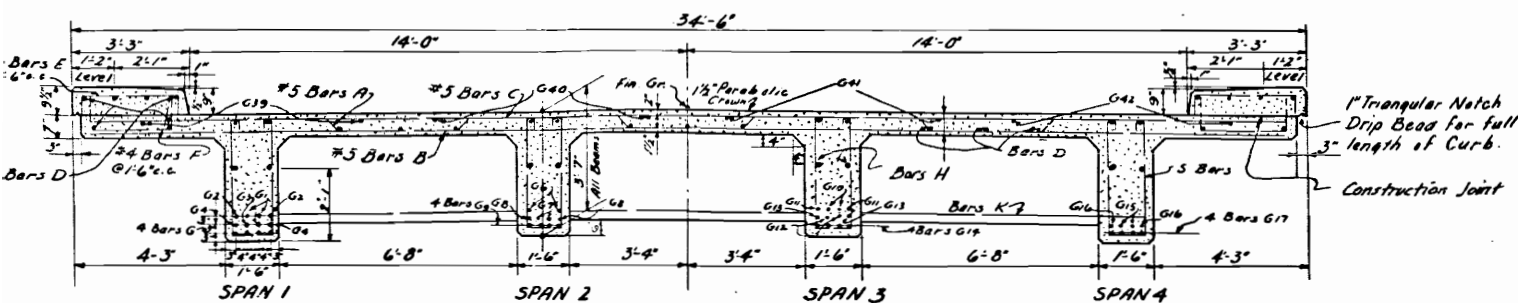
NOTE: Cost of all joint material to be included in the unit price bid for Class "A" Concrete.
 * Self Lubricating Plates.

SOUNDING SKETCH

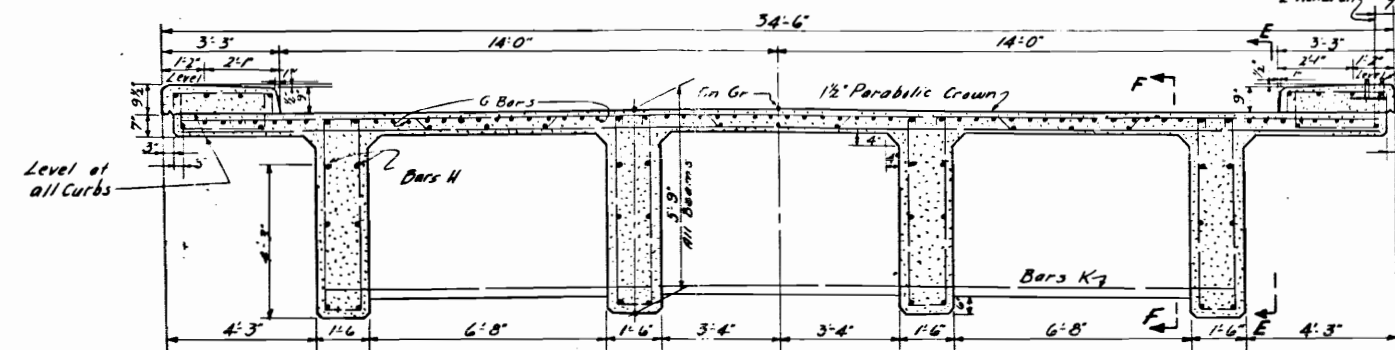
G = Ground El.
 R = Rock El.
 N.R. = Rock Not Obtained @ 42' Depth

DESIGNED BY: H.W. Derthick
 DRAWN BY: J.M. Clanton
 CHECKED BY: H.M. Bunch
 DATE: 5-58
 DATE: 5-14-58
 DATE: 6-23-58

I-50 OVER I-75



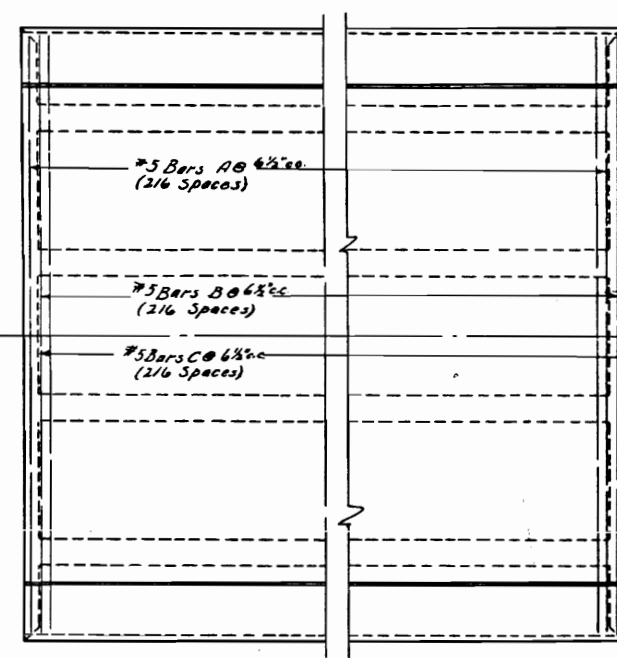
SECTION G-G



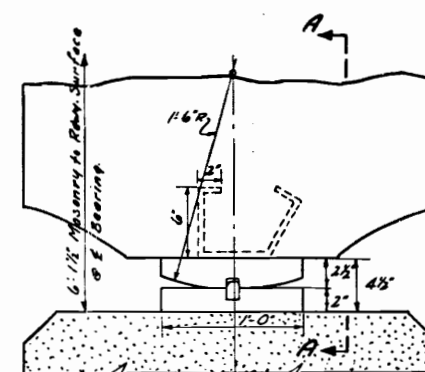
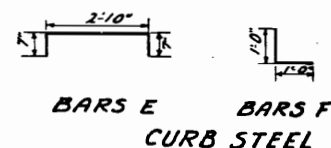
TYPICAL SECTION at SUPPORT

BILL of STEEL for SLAB

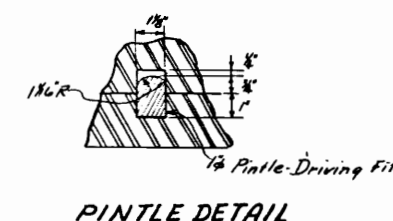
Bar	Size	No.	Length
A	#5	27	34'-0"
B	#5	27	33'-6"
C	#5	27	33'-6"
D	#5	47	34'-6"
E	#4	34	4'-0"
F	#4	628	2'-0"
P	#5	8	33'-6"
K	#5	14	25'-6"



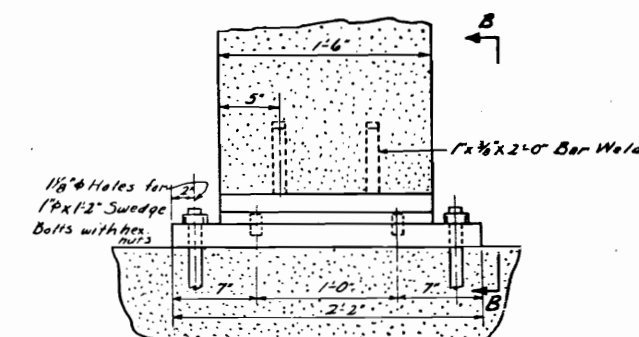
PART SLAB PLAN SHOWING SLAB REINFORCEMENT



SECTION B-B

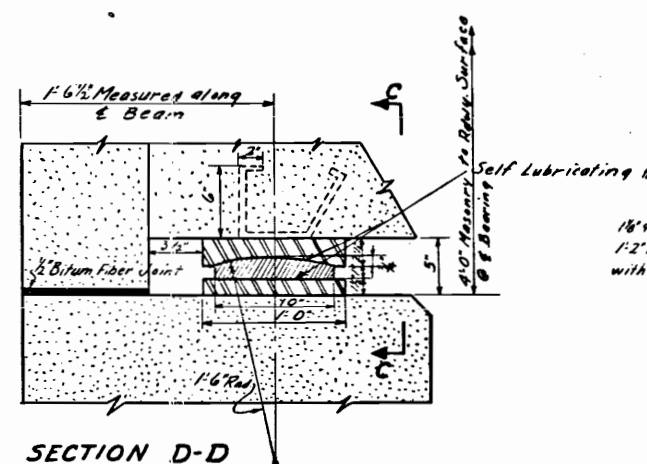


PINTLE DETAIL

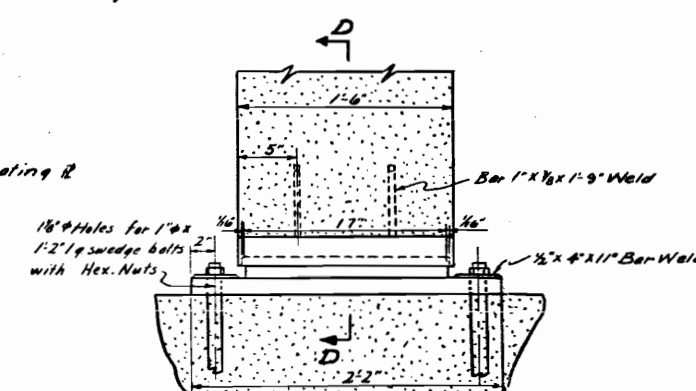


SECTION A-A

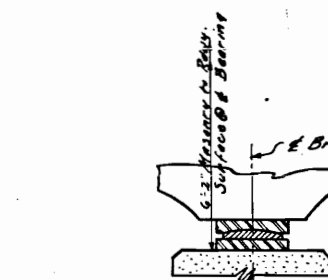
FIXED BEARINGS Required: 4



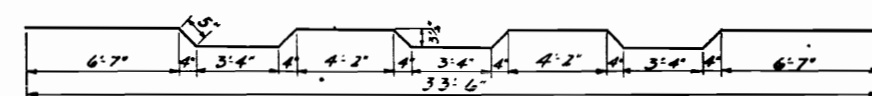
SECTION D-D



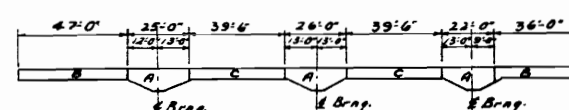
SECTION C-C



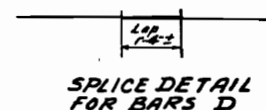
EXPANSION DETAIL at INTERIOR SUPPORTS
Note: Same as expansion at Abutment except as shown.
Required: 8.



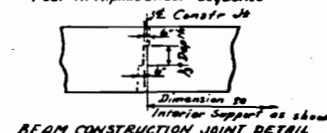
BARS A



POURING SCHEDULE
Pour in Alphabetical Sequence



SPICE DETAIL FOR BARS D



BEAM CONSTRUCTION JOINT DETAIL

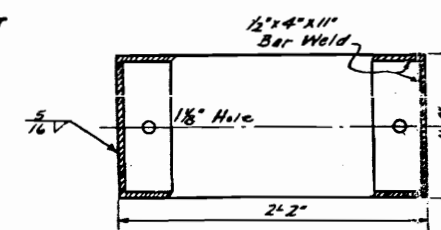


SECTION H-H

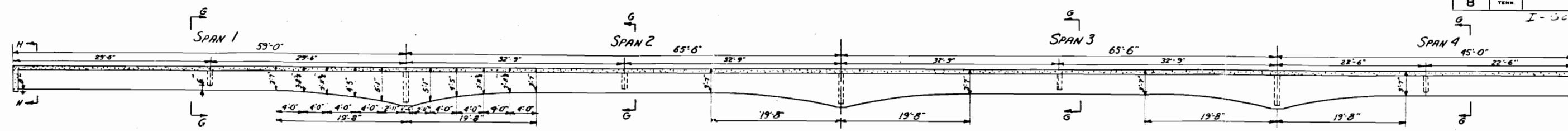
EXPANSION DETAIL @ ABUTMENT
Required: 8

ESTIMATED QUANTITIES

CONCRETE CLASS "A"	4485	CuYds.
REINFORCING STEEL	103637	Lbs.
STRUCTURAL STEEL	3199	Lbs.
BRONZE	1328	Lbs.



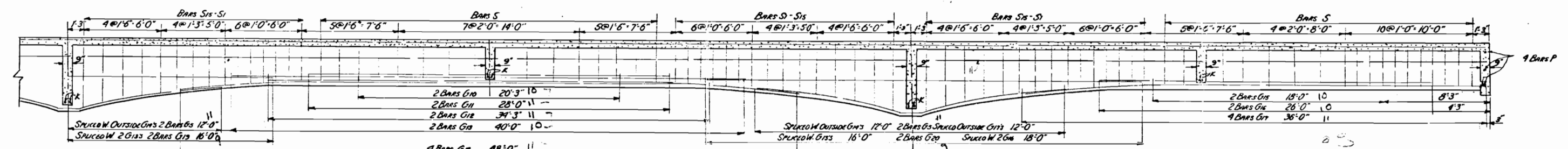
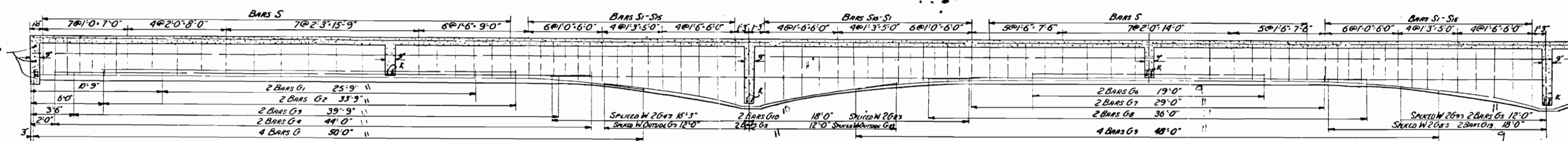
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE
SUPERSTRUCTURE DETAILS
FOR
HICKORY VALLEY ROAD OVER I-502
STA 1286+50
LOUDON COUNTY
1958



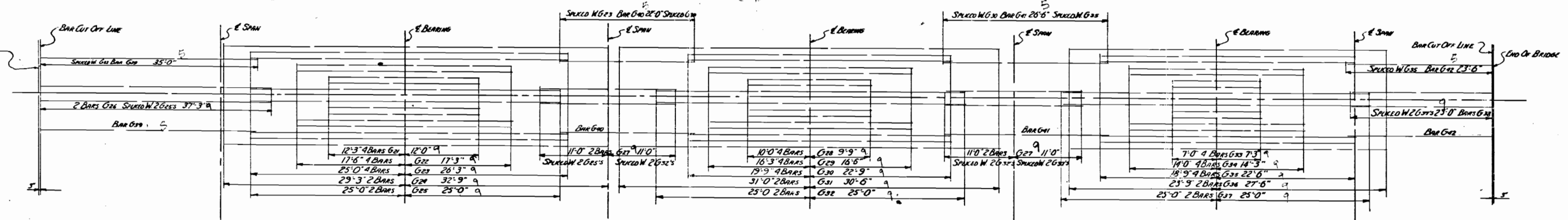
NOTE: For SECTIONS G-G & H-H SEE DWG. G-1-91
NOTE: For Dead Load Camber Curve See DWG. G-1-90

BEAM ORDINATES SAME FOR ALL HAUNCHES

SECTION E-E SHOWING BEAM ORDINATES



SECTION F-F SHOWING POSITIVE MOMENT REINFORCEMENT



ARRANGMENT OF NEGATIVE MOMENT REINFORCEMENT

BILL OF STEEL FOR GIRDERS

BAR NO.	SIZE	LGTH.	BAR NO.	SIZE	LGTH.	BAR NO.	SIZE	LGTH.	BAR NO.	SIZE	LGTH.
G 16	"11	51'-0"	G 16	"11	48'-0"	G 16	"11	19'-9"	G 16	"11	25'-6"
G 2	"8	25'-9"	G 2	"8	18'-0"	G 2	"8	32'-9"	G 2	"8	14'-6"
G 2	"8	33'-9"	G 2	"8	26'-0"	G 2	"8	42'-6"	G 2	"8	14'-6"
G 2	"8	39'-9"	G 2	"8	17'-0"	G 2	"8	64'-0"	G 2	"8	50'-0"
G 4	"8	44'-0"	G 4	"8	34'-3"	G 4	"8	14'-3"	G 4	"8	28'-3"
G 4	"8	29'-0"	G 4	"8	14'-3"	G 4	"8	41'-3"	G 4	"8	51'-3"
G 8	"8	36'-0"	G 8	"8	34'-9"	G 8	"8	51'-3"	G 8	"8	23'-0"
G 8	"8	48'-0"	G 8	"8	51'-3"	G 8	"8	50'-0"	G 8	"8	23'-0"
G 10	"8	20'-3"	G 10	"8	42'-0"	G 10	"8	35'-0"	G 10	"8	22'-0"
G 10	"8	28'-0"	G 10	"8	30'-0"	G 10	"8	22'-0"	G 10	"8	26'-6"
G 12	"8	39'-3"	G 12	"8	37'-3"	G 12	"8	22'-0"	G 12	"8	26'-6"
G 12	"8	40'-0"	G 12	"8	22'-0"	G 12	"8	26'-6"			

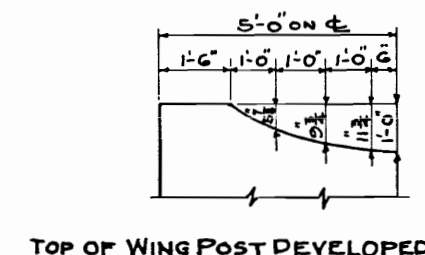
* See Splice Detail



SPICE DETAIL FOR BARS G31
NOTE: SPICE TO BE MIN. ON ALTERNATE SIDES OF E BEARING.

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE
SUPERSTRUCTURE DETAILS
FOR
HICKORY VALLEY ROAD OVER I-502
STA 1286+50
LOUDON COUNTY
1958

CORRECTED BY: *Ed Gure*
APPROVED: *Charles M. Baker*
STATE HIGHWAY ENGINEER

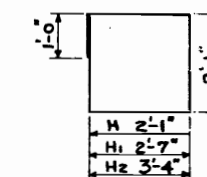


TOP OF WING POST DEVELOPED

TABLE OF ELEVATIONS

ELEVATION	ABUT.No.1	ABUT.No.2
A	863.29	858.11
B	863.20	858.02

⊗ NOTE: BATTER THESE PILES FORWARD 2" 12"

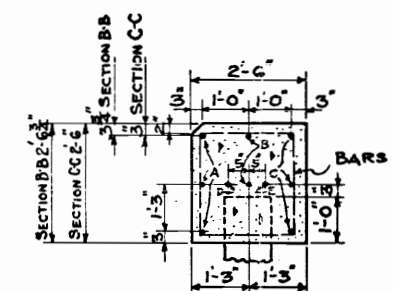


BARS H, H_1 & H_2

BILL OF STEEL

BAR	NO.	SIZE	LENGTH
A	3	#7	31'-0"
B	2	"	32'-6"
C	3	"	33'-6"
D	1	"	32'-0"
E	1	"	33'-0"
F	6	"	10'-0"
G	6	"	12'-0"
H	24	#5	9'-4"
H ₁	2	"	10'-4"
H ₂	2	"	11'-10"
J	20	"	6'-9"
*K	8	"	9'-6"
L	16	"	3'-0"
M	16	#4	3'-5"
M ₁	8	"	4'-3"
*N	4	"	4'-9"
*N ₁	4	"	4'-6"

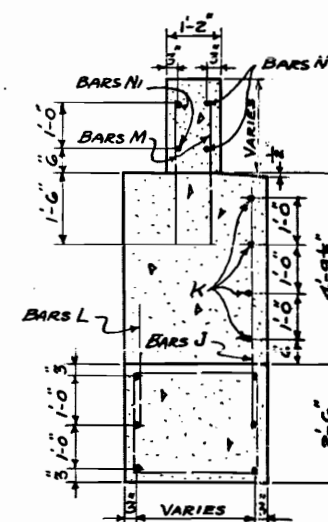
* THESE BARS TO BE BENT IN THE FIELD



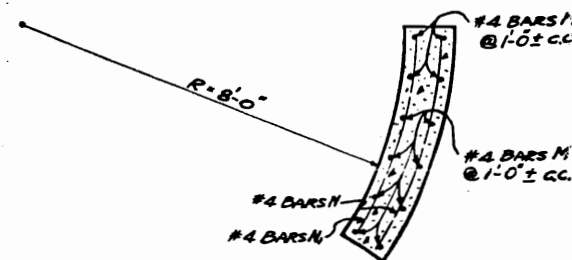
SECTIONS B-B&C-C

ESTIMATED QUANTITIES
ABUTMENT 1 & 2 EACH

CONCRETE CLASS "A"	234	Cu.Yds.
REINFORCING STEEL	1566	LBS.



SECTION A-A



HORIZONTAL SECTION THRU WING POST

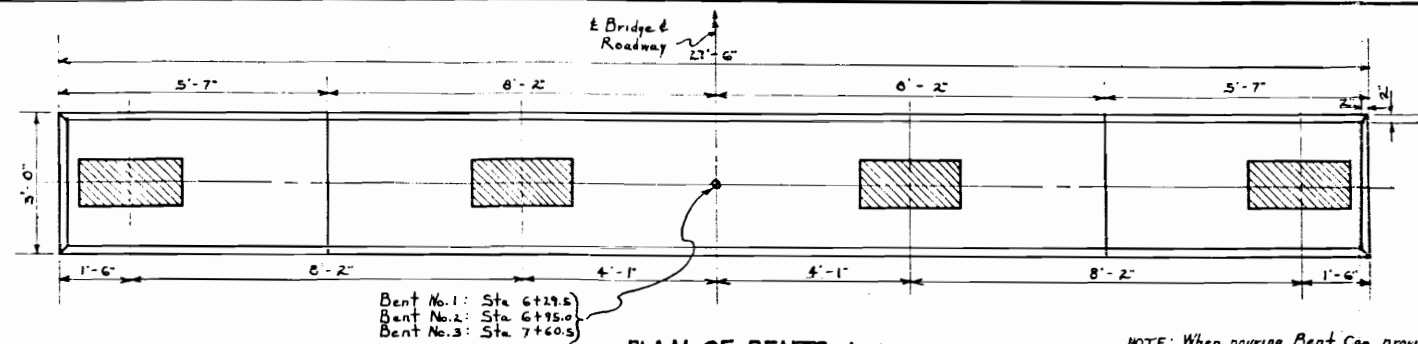
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

ABUTMENTS 1 & 2
FOR
HICKORY VALLEY RD.
OVER
I - 502
STA. 1286+50
LOUDON COUNTY
1952

CORRECT Fred Green

APPROVED Herbert M. Bates

G-1-93



NOTE: When pouring Bent Cap provisions shall be made for setting Anchor Bolts for bearing plates, location shown this sheet.

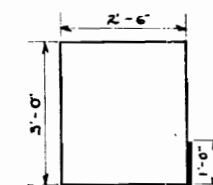
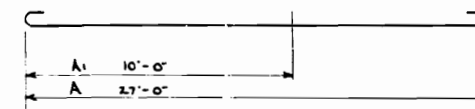
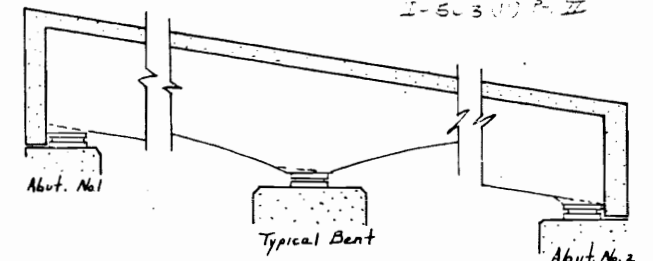
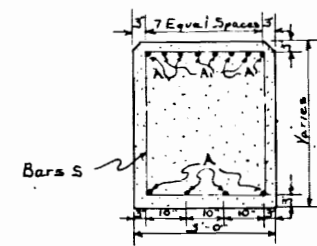
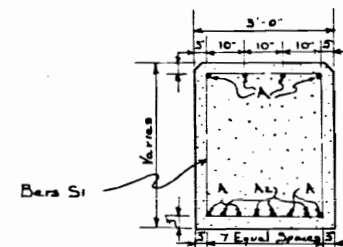


TABLE OF DIMENSIONS

Dimensions	Bent No.1	Bent No.2	Bent No.3
A	27'-0"	22'-0"	15'-0"

Elevation	Bent No.1	Bent No.2	Bent No.3
A	860.44	859.72	857.86
B	860.53	859.81	857.95

BENT NO. 1

Bar	No	Size	Length
B	24	#4	12'-0"
C	16	#8	26'-9"

BENT NO. 2

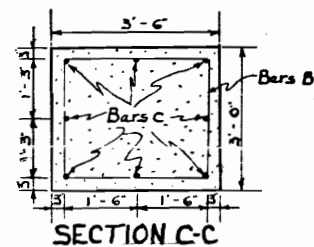
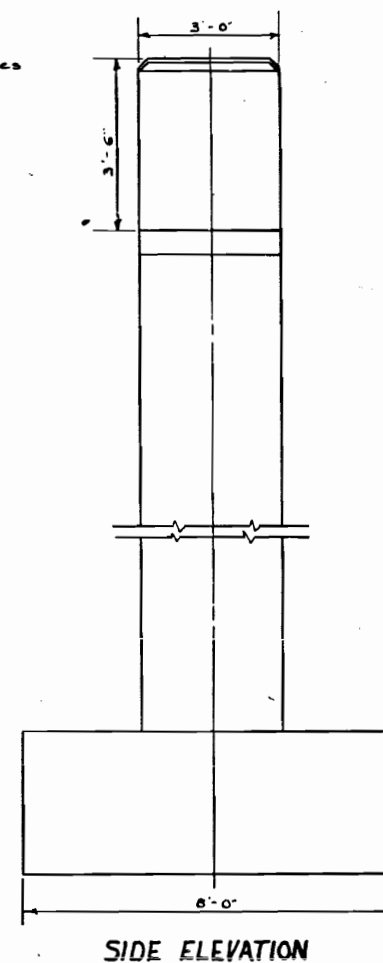
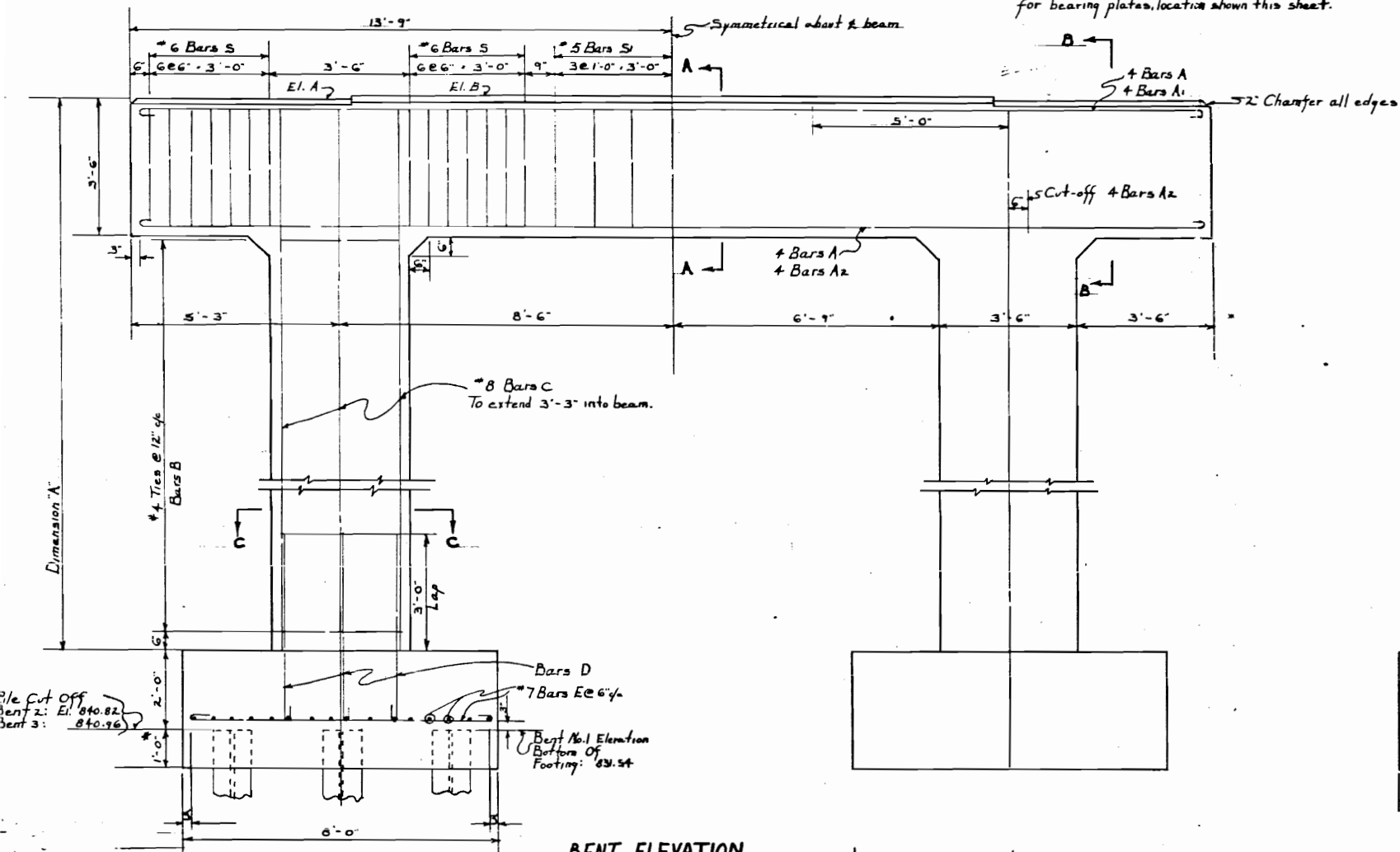
Bar	No	Size	Length
B	19	# 4	12'-0"
C	16	# 8	21'-9"

BENT NO. 3

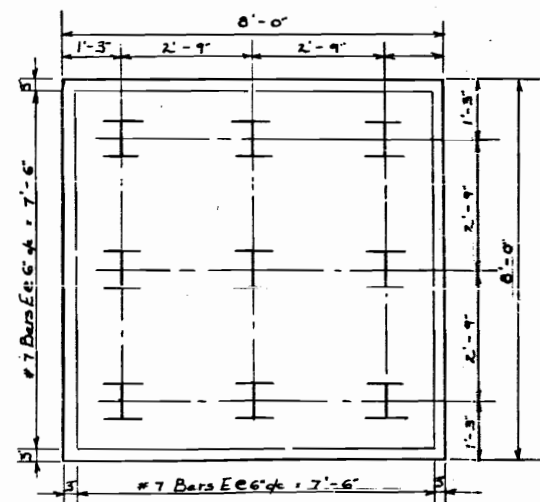
Bar No	Size	Length
B 12	#4	12'-0"
C 16	#8	14'-9"

**BILL OF STEEL
BENTS 1,2 & 3 EACH**

Bar	No	Size	Length
A	8	#9	28'-8"
A ₁	4	#9	10'-10"
A ₂	4	#9	18'-0"
D	16	#8	5'-7"
E	64	#7	9'-0"
S	28	#6	12'-0"
S ₁	7	#5	12'-0"



* NOTE. Footings shown are for Bents 2 & 3. For Bent No. 1 omit Piles and 1'-0" Pile encasement concrete. Footing reinforcement same for all Bents.



ESTIMATED QUANTITIES

ITEM	Conc. Class 'A' Cu.Yds.	Reinf. Stae lbs
Bent No 1	38.7	4512
Bent No 2	39.5	4258
Bent No 3	34.1	1903

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE
BENTS NO 1,2, & 3
FOR
HICKORY VALLEY ROAD
OVER
1-302
STA. 1286 + 50
LOUDON COUNTY.
1958

DESIGNED BY W. P. G. DATE _____
DRAWN BY C. P. M. DATE 4/18/58
TRACED BY Roy DATE 6/24/58
CHECKED BY _____ DATE _____

CORRECT Fred Green
DESIGN ENGINEER

APPROVED Herbert M. Paley
STATE HIGHWAY ENGINEER