

UPDATE DATE 12/18/81

HAWORTH, MEYER, BOLEYN, INC.
CONSULTING ENGINEERS
FRANKFORT, KENTUCKY

CASEY COUNTY
LIBERTY-BRADFORDSVILLE ROAD
KY 49 OVER MARTINS CREEK

REFERENCE & ESTIMATE OF QUANTITIES																
ITEM LOCATION	SHEET NO.	CONC. CLASS "AA"	CONC. CLASS "A"	STEEL REINF.	STRUCTURAL EXC.		STRUCT. STEEL	EPOXY COATED STEEL REINF.	DRY CYCL STONE RIP RAP	PRECAST PCI BEAM TYPE IV	2" NEOP EXP DAM					
		CU. YDS.	CU. YDS.	LBS.	COMMON	SOLID ROCK										
TITLE SHEET & QUANTITIES	1															
GENERAL NOTES	2															
LAYOUT SHEET	3															
SUBSURFACE DATA	4-5															
ABUTMENT # 1 DETAILS	6-9		177.3	25,735	206	112			27							
ABUTMENT # 2 DETAILS	6-9		176.9	25,674	134	116			27							
SUPERSTRUCTURE DETAILS	10-14	116.9		7669			①	12858		353.3		44				
CONSTRUCTION ELEVATIONS	15-16															
TOTAL SUBSTRUCTURE			354.2	51,409	340	228			54							
TOTAL SUPERSTRUCTURE		116.9		7669			①	12858		353.3		44				
GRAND TOTAL		116.9	354.2	59,078	340	228	①	12858	54	353.3		44				

① APPROXIMATE WEIGHT OF STRUCTURAL STEEL IS 2755 LBS

BILL OF INCIDENTAL MATERIALS				
ITEM	NUMBER PIECES	SIZE	LOCATION	INCIDENTAL TO
1" I.D. PLASTIC PIPE	16	" INSIDE DIAMETER	NEW JERSEY BARRIER	CL "AA" CONC
PREFORMED JOINT SEAL	1	2 1/2" x 2 1/2" x 47'-0"	1 1/2" JT. @ ABUT.	CL "AA" CONC
PREFORMED CORK EXP. JT. MAT'L	1	5-9 x 1 1/8" x 47'-0"	1 1/2" JT. @ ABUT.	CL "AA" CONC
3" STYROFOAM	1	4'-9 x 1"-9" x 3"	SHEAR KEY	CL "AA" CONC
1/2" PREF. CORK EXP. JT. MAT'L	2	1/2" x 2" x 6" x 2'-0"	SIDES SHEAR KEYS	CL "AA" CONC
1" STYROFOAM	3	1" x 1" x 6" x 1'-0"	DIAPH. @ ABUT. #2	CL "AA" CONC
1/2" PREF. CORK EXP. JT. MAT'L	6	1/2" x 2" x 6" x 1'-0"	DIAPH. @ ABUT. #2	CL "AA" CONC
ELAST. BRG. PAD TYPE 41	4	3/8" x 2" x 0" x 10"	ABUT. #1	PCI BMS.
(ELAST. BRG. PAD (UNSHIMMED))	4	1/4" x 2" x 0" x 4'-0"	ABUT. #2	PCI BMS.
3/4" @ THREAD ANCHOR BAR	36	3/4" @ x 2'-0" x 1'-0"	DIAPH. RAGMS	PCI BMS.
2" @ 5/4" SLEEVE CAPS	2	2" @ x 5/4"	ABUT. #2	CL "AA" CONC
1 1/2" DOWELS	6	1 1/2" @ x 2'-0"	ABUT. #2	CL "A" CONC
1/4" STYROFOAM	6	1/4" x 3'-0" x 1'-6"	ABUT. #2	CL "AA" CONC

STANDARD DRAWINGS LISTED BELOW ARE THE CURRENT EDITION
AND ARE TO BE USED WITH THESE PLANS:

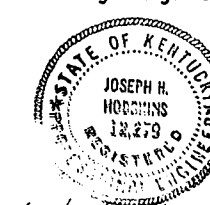
BJE - 001-03
BJE - 002-03
BJJ - 003-04
BJJ - 004-03

50 (79) EPOXY COATED STEEL REINFORCEMENT

NEOPRENE EXPANSION DAMS

KY. 49 OVER MARTINS CREEK SHEET 1 OF 16

Plans Prepared By
HAWORTH, MEYER, BOLEYN
Consulting Engineers



COMMONWEALTH OF KENTUCKY BUREAU OF HIGHWAYS

FRANKFORT
COUNTY OF
CASEY

LIBERTY - BRADFORDSVILLE ROAD

STATION 54+30

CONSTRUCTION PROJECT NO. BPS 5115 (7)	MAINTENANCE PROJECT NO.	DRAWING NO. 20310
--	-------------------------	----------------------

DRS 5113 (1)	20910
--------------	-------

GENERAL NOTES

SPECIFICATIONS

THE KENTUCKY BUREAU OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, SHALL APPLY TO THIS PROJECT.

DESIGN LOAD

THIS BRIDGE IS DESIGNED FOR HS20-44 LOADING AS SPECIFIED IN THE 1977 AASHTO SPECIFICATIONS, INCLUDING INTERIM SPECIFICATIONS. THIS BRIDGE IS DESIGNED FOR A WIND LOAD BASED ON A WIND VELOCITY OF 84 MPH.

DESIGN STRESSES

FOR CLASS "AA" REINFORCED CONCRETE

$f_y = 60,000$ PSI
 $f'_c = 4,000$ PSI

FOR CLASS "A" REINFORCED CONCRETE

$f_y = 60,000$ PSI
 $f'_c = 3,500$ PSI

FOR PRESTRESSED GIRDER CONCRETE

$f_s = 270,000$ PSI FOR PRESTRESSING STRAND
 $f_y = 60,000$ PSI
 $f'_c = 5,000$ PSI

DESIGN METHOD

ALL REINFORCED CONCRETE MEMBERS ARE DESIGNED BY THE LOAD FACTOR METHOD AS SPECIFIED IN THE CURRENT AASHTO SPECIFICATIONS.

CONCRETE

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SUPERSTRUCTURE EXCEPT IN THE PRESTRESSED GIRDERS. CLASS "A" CONCRETE IS TO BE USED THROUGHOUT THE SUBSTRUCTURES.

FOUNDATION PRESSURE

ABUTMENT FOOTINGS ARE DESIGNED FOR A MAXIMUM PRESSURE OF 6,280 PSF.

MATERIALS

ASTM AND AASHTO SPECIFICATIONS, CURRENT EDITION, AS DESIGNATED BELOW, SHALL GOVERN THE MATERIALS FURNISHED.

A36-77A	STRUCTURAL STEEL, 36,000 PSI MINIMUM YIELD
D1752-73	PREMOLDED CORK FILLER, TYPE II
M203	UNCOATED SEVEN-WIRE STRESS-RELIEVED STRAND FOR PRESTRESSED CONCRETE, GRADE 270

REINFORCEMENT

DIMENSIONS SHOWN FROM FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS.

BEVELED EDGES

ALL EXPOSED CONCRETE EDGES SHALL BE BEVELED 7/8" UNLESS OTHERWISE SHOWN.

BILL OF INCIDENTAL MATERIALS

THE QUANTITIES SHOWN IN THE BILL OF INCIDENTAL MATERIAL ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ENOUGH MATERIAL TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE COST OF THESE ITEMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "AA" CONCRETE, CLASS "A" CONCRETE OR PCI BEAMS AS NOTED.

PAYMENT FOR STRUCTURAL STEEL

THE LUMP SUM BID FOR STRUCTURAL STEEL SHALL BE FULL PAYMENT FOR ALL STRUCTURAL STEEL, WELDING AND WELDING MATERIALS, AND ALL LABOR AND MATERIALS NECESSARY TO ERECT THE STEEL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE APPROXIMATE WEIGHT OF STRUCTURAL STEEL SHOWN IN THE ESTIMATE OF QUANTITIES DOES NOT INCLUDE OVERRUN OR WELD MATERIAL.

MEMBRANE CURING COMPOUND

WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE BRIDGE DECK IN ACCORDANCE WITH SECTION 609.15 OF THE KBH SPECIFICATIONS.

EPOXY COATED REINFORCING STEEL

ALL REINFORCING BARS DESIGNATED BY SUFFIX (E) IN THE PLANS SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISION 50(79).

TEXTURING

THE BRIDGE DECK SHALL BE TEXTURED IN ACCORDANCE WITH SECTION 609.13 OF THE STANDARD SPECIFICATIONS.

PAINT

ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SECTION 607.25 OF THE KBH SPECIFICATIONS.

PRESTRESSING REINFORCEMENT

PRESTRESSING REINFORCEMENT SHALL BE 1/2" NOMINAL DIAMETER UNCOATED SEVEN-WIRE STRESS-RELIEVED STRAND CONFORMING TO THE REQUIREMENTS OF GRADE 270, AASHTO DESIGNATION, M203, CURRENT EDITION.

TENSIONING METHOD

BEAMS SHALL BE PRETENSIONED.

CONSTRUCTION METHOD

NO BOND STRESS SHALL BE TRANSFERRED TO THE CONCRETE, NOR SHALL END ANCHORS BE RELEASED, UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH AS SHOWN BY STANDARD CYLINDERS MADE AND CURED IDENTICALLY WITH THE GIRDERS OF AT LEAST A MINIMUM STRENGTH OF 4,000 PSI. CYLINDER STRENGTH SHALL BE 5,000 PSI BEFORE BRIDGE IS OPENED TO TRAFFIC. AN INITIAL FORCE SHALL BE APPLIED TO EACH STRAND SUCH AS TO DEVELOP A STRESS OF 189,000 PSI. BEAMS WITH HONEYCOMB OF SUCH EXTENT AS TO AFFECT THE STRENGTH OR RESISTANCE TO DETERIORATION WILL NOT BE ACCEPTED. AN ALLOWANCE OF .0005L SHALL BE MADE FOR SHORTENING OF BEAMS DUE TO SHRINKAGE AND ELASTIC CHANGE.

SHOP PLANS

SHOP PLANS SHALL BE IN ACCORDANCE WITH SUBSECTION 605.05 PART A OF THE SPECIFICATIONS.

ELASTOMERIC BEARING PADS

ELASTOMERIC BEARING PADS SHALL MEET THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, INCLUDING CURRENT INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED ON STANDARD DRAWING BRP-001, CURRENT EDITION. THE COST OF THIS ITEM IS TO BE INCLUDED IN THE PRICE PER LINEAR FOOT FOR PRECAST PRESTRESSED CONCRETE BEAMS.

NON-SHIMMED ELASTOMERIC BEARING PADS

THE MATERIAL SPECIFICATIONS FOR THE ELASTOMERIC BEARING PADS SHALL CONFORM TO THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES EXCEPT THAT THE REQUIREMENTS OF THE LOW TEMPERATURE TEST IS WAIVED. THE COST OF THIS ITEM IS TO BE INCLUDED IN THE PRICE PER LINEAR FOOT FOR PRECAST PRESTRESSED CONCRETE BEAMS.

PAYMENT FOR PRECAST CONCRETE BEAMS

THE BASIS OF PAYMENT FOR THE PRESTRESSED CONCRETE BEAMS SHALL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF BEAM, IN ACCORDANCE WITH THE SPECIFICATIONS.

TEMPORARY SUPPORTS

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE GIRDERS WHEN POURING THE CONCRETE FLOOR SLABS OR WHEN TAKING "TOP OF BEAM" ELEVATIONS.

CONSTRUCTION IDENTIFICATION

THE NAMES OF THE PRIME CONTRACTOR AND THE SUB-CONTRACTOR SHALL BE IMPRINTED IN THE CONCRETE WITH ONE INCH LETTERS AT A LOCATION DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL PLANS, EQUIPMENT AND LABOR NECESSARY TO DO THE WORK FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

STYROFOAM FORM FOR DIAPHRAGM KEYS

A STYROFOAM PAD SHALL BE PLACED OVER THE ABUTMENT SHEARS KEYS WHEN FORMING THE DIAPHRAGM. WHEN THE CONCRETE IN THE DIAPHRAGM HAS SET, THE STYROFOAM SHALL BE REMOVED.

BLASTING NEAR ABUTMENT SITES

THE BEARING VALUE OF THE ROCK LOCATED UNDER THE PROPOSED BRIDGE ABUTMENTS MUST BE PRESERVED FROM DAMAGE BY BLASTING, BY CONCUSSION FROM BLASTING, OR BY EXCESSIVE BACKBREAKAGE. ANY INCREASES IN STRUCTURE COSTS CAUSED BY BLASTING DAMAGE TO THE BRIDGE FOUNDATIONS SHALL BE AN EXPENSE OF THE CONTRACTOR.

APPROACH EMBANKMENT

CONSTRUCTION OF THE APPROACH EMBANKMENT SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF ANY SUPERSTRUCTURE COMPONENTS.

SUPERSTRUCTURE SLAB

THE SUPERSTRUCTURE SLAB SHALL BE POURED CONTINUOUSLY FROM OUT TO OUT BEFORE THE CONCRETE IS ALLOWED TO SET.

DEFORMED WIRE FABRIC

DEFORMED WIRE FABRIC MAY BE USED IN THE PRECAST BEAMS IN LIEU OF REINFORCING BARS, PROVIDED AN EQUIVALENT AREA OF STEEL IS FURNISHED. WIRE FABRIC IS TO BE DEFORMED WIRE MESH OF COLD DRAWN WIRE CONFORMING TO ASTM SPECIFICATION A82, CURRENT EDITION.

PLAN ELEVATION FOR FOOTINGS

WHEN SUITABLE ROCK IS ENCOUNTERED AT A DATUM ELEVATION HIGHER THAN THE PLAN ELEVATION, THE HIGHER ELEVATION MAY BE UTILIZED FOR BEARING AS OUTLINED IN THE SPECIFICATIONS.

NEOPRENE EXPANSION DAMS

THE NEOPRENE EXPANSION DAMS SHALL COMPLY WITH THE PLANS AND THE SPECIAL NOTES FOR NEOPRENE EXPANSION DAMS.

GENERAL NOTES

KY. 49 OVER MARTINS CREEK

SHEET 2

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS

FRANKFORT

COUNTY OF

CASEY

LIBERTY - BRADFORDSVILLE ROAD

ROAD

STATION 54+30

P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.

MAINTENANCE PROJECT NO.

DRAWING NO.

20310

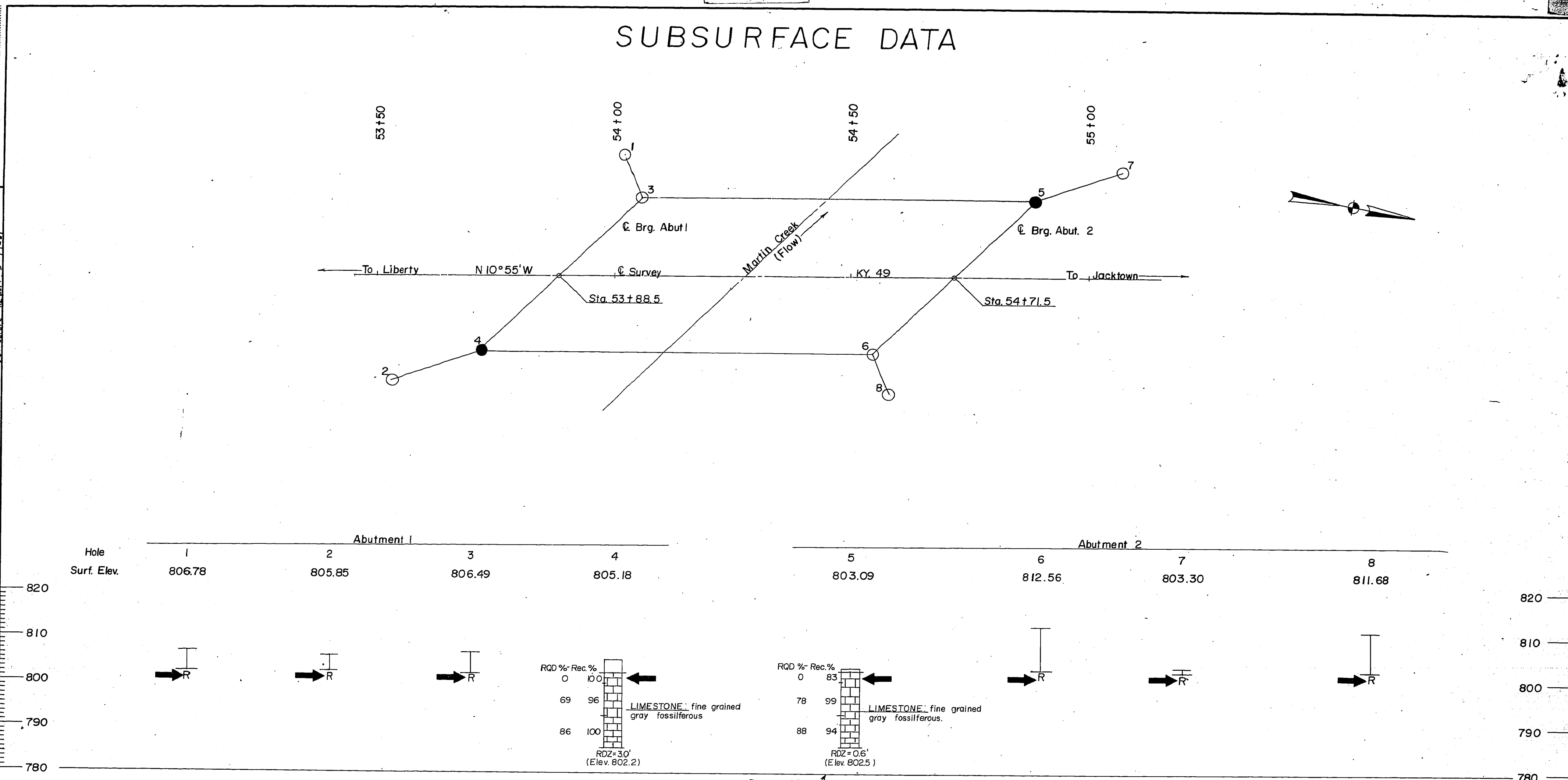
SUBSURFACE DATA

UPDATE DATE
LETTING DATE

Division of Material
Geotechnical Section
Soil Eng. Unit
Sta. 54+30

DESIGNED BY: J.A.M.
CHECKED BY: J.A.M.
DATE: 2-2-77

TRACED BY: J.A.M.
CHECKED BY: J.A.M.
DATE: 2-2-77



The allowable bearing capacity is estimated to 20 TSF.

KY. 49 OVER MARTINS CREEK SHEET 4

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
CASEY
LIBERTY - BRADFORDSVILLE ROAD
ROAD
STATION 54+30
P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.
MAINTENANCE PROJECT NO.
DRAWING NO.
20310

Description of Soil Compactness or Consistency

SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF PENETRATION RESISTANCE	RANGE OF UNCONFINED COMPRESSIVE STRENGTH
Coarse grained soils. (More than half of material is larger than No. 200 sieve size.)	Very loose Loose Medium compact Compact Very compact	Less than 4 blows per foot. 4 to 10 10 to 30 30 to 50 Greater than 50	Not applicable.
Fine grained soils. (More than half of material is smaller than No. 200 sieve size.)	Very soft Soft Medium stiff Stiff Very stiff Hard	Not applicable	Less than 0.25 tsf 0.25 to 0.5 0.5 to 1.0 1.0 to 2.0 2.0 to 4.0 Greater than 4.0

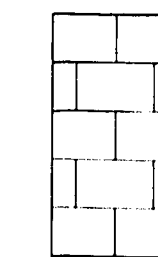
Unified Soil Classifications

MAJOR DIVISIONS	SYMBOL	NAME
COARSE-GRAINED SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
	GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
	GM	Silty gravels, gravel-sand-silt mixtures.
	GC	Clayey gravels, gravel-sand-clay mixtures.
	SW	Well-graded sands or gravelly sands, little or no fines.
	SP	Poorly graded sands or gravelly sands, little or no fines.
SAND AND SANDY SOILS	SM	Silty sands, sand-silt mixture.
	SC	Clayey sands, sand-clay mixtures.
FINE-GRAINED SOILS	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
	CH	Inorganic clays of high plasticity, fat clays.
UNCLASSIFIED MATERIAL	NONE	Non-classified material (i.e. overburden, pavement, coal mine waste, slag, rubble, talus, etc.) Include visual description.

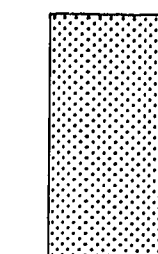
- AI Activity Index
 LI Liquidity Index
 N Penetration Resistance
 S+C(%) Material finer than No. 200 sieve
 ○ Rockline Sounding
 ⊕ Disturbed Sample Boring
 ⊙ Undisturbed Sample Boring
 ⊗ Undisturbed Sample Boring and Rock Core
 ● Rock Core
 ⊕ Slope Inclinator Installation
 typical applications: ○ ⊕ ⊙ ⊗ ●
 ▴ Approximate Footing Elevation
 ▽ Water Elevation
 ■ Thin-walled Tube Sample
 < Standard Penetration Test Sample
 Q_u Unconfined Compressive Strength
 w(%) Moisture Content
 RQD(%) Rock Quality Designation
 SDI(%) Slake Durability Index
 Rec.(%) Core Recovery
 φ Angle of Internal Friction
 φ̄ Effective Angle of Internal Friction
 c Cohesion
 c̄ Effective Cohesion
 γ Total Unit Weight
 RDZ Rock Disintegration Zone
 OB Overburden Bench
 IB Intermediate Bench
 R Refusal
 NR Refusal Not Encountered

Relation of RQD and in situ Rock Quality

RQD(%)	Rock Quality
90-100	Excellent
75-90	Good
50-75	Fair
25-50	Poor
0-25	Very Poor



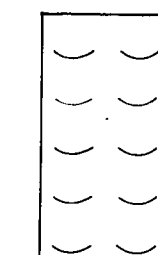
LIMESTONE



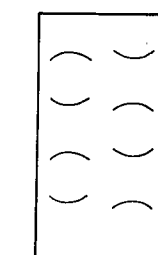
SANDSTONE



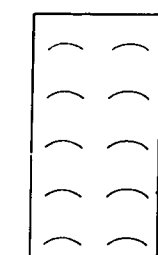
COAL



SHALE, SOIL-LIKE
(SDI ≤ 50)



SHALE, INTERMEDIATE
(50 < SDI < 95)



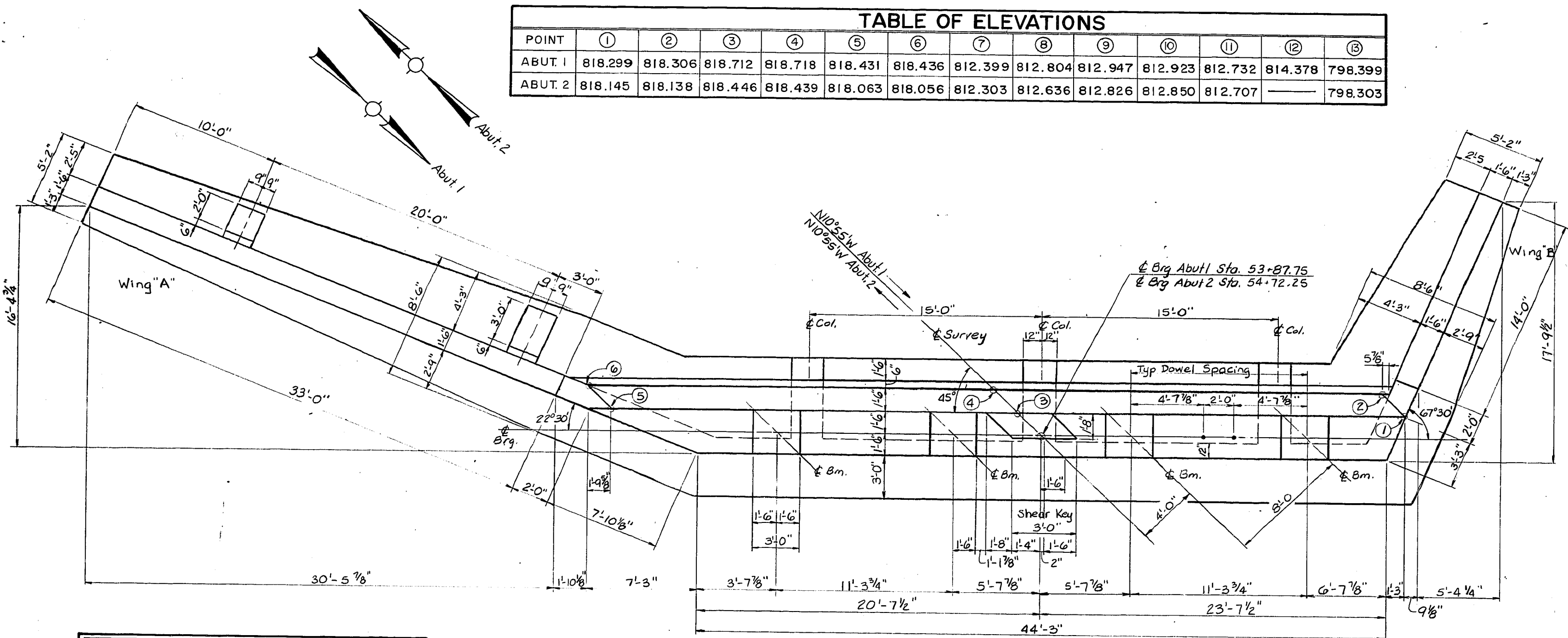
SHALE, ROCK-LIKE
(SDI ≥ 95)

KY. 49 OVER MARTINS CREEK SHEET 5
COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CASEY
 LIBERTY - BRADFORDSVILLE ROAD
 ROAD
 STATION 54+30 P.E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
 20310

UPDATE DATE
LETTING DATE

DESIGNED BY: *[Signature]* CHECKED BY: *[Signature]* DATE: *1-1-81*
DRAWN BY: *[Signature]* CHECKED BY: *[Signature]* DATE: *1-1-81*
INCHES: *1/8"* FEET: *1/4"*

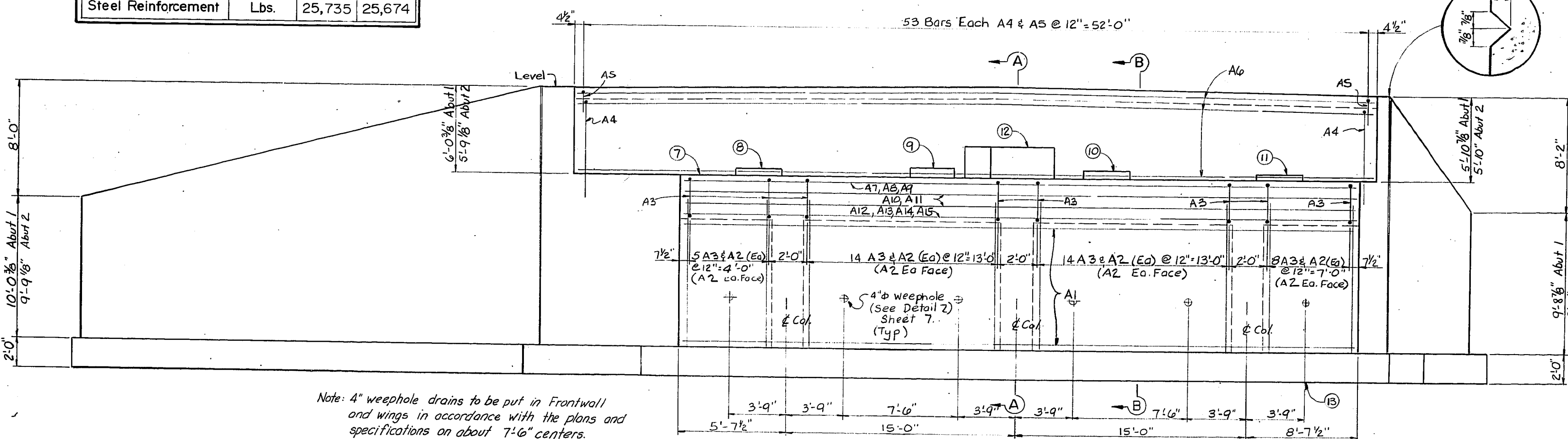
TABLE OF ELEVATIONS													
POINT	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
ABUT. 1	818.299	818.306	818.712	818.718	818.431	818.436	812.399	812.804	812.947	812.923	812.732	814.378	798.399
ABUT. 2	818.145	818.138	818.446	818.439	818.063	818.056	812.303	812.636	812.826	812.850	812.707	—	798.303



ESTIMATE OF QUANTITIES			
ITEM	UNIT	ABUT. 1	ABUT. 2
Concrete, Class "A"	Cu. Yds.	177.3	176.9
Steel Reinforcement	Lbs.	25,735	25,674

PLAN
Note: Shear Key typical to Abut. 1
Dowels typical to Abut. 2

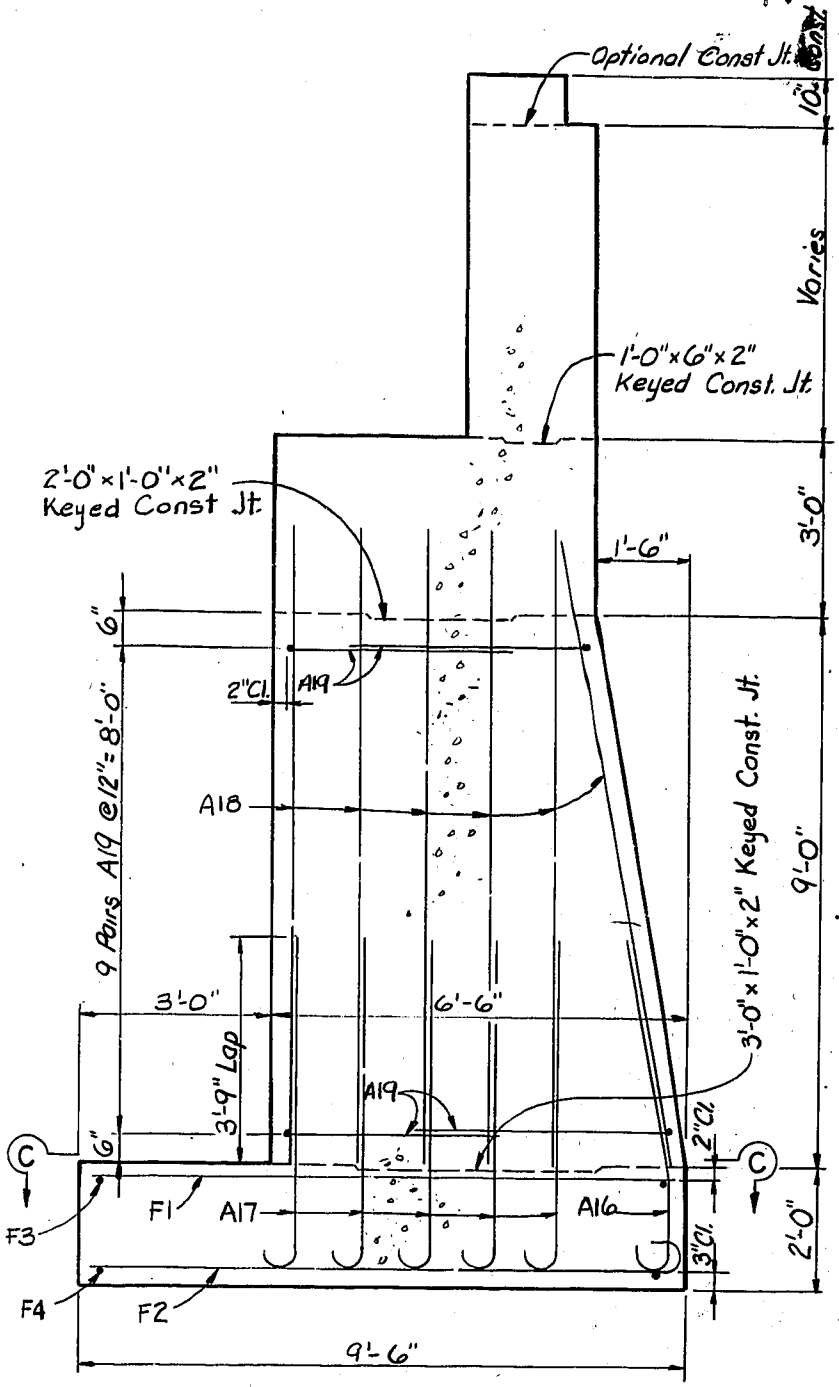
Mandatory V Groove to extend from top of footing to top of wing on front face across top of wing and down back face 1'-6"



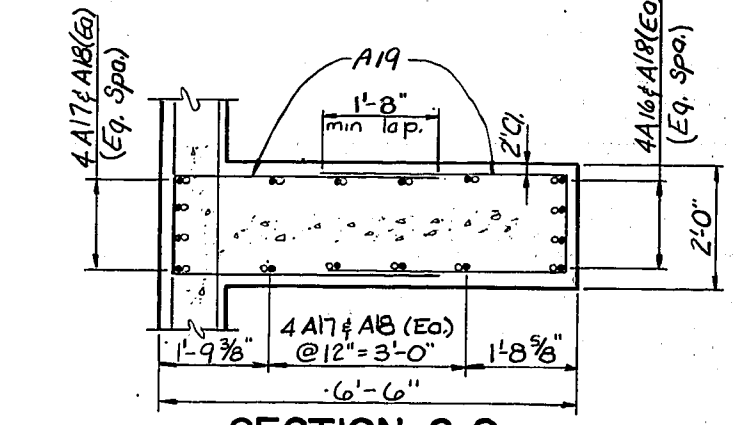
Note: 4" weephole drains to be put in front wall and wings in accordance with the plans and specifications on about 7'-6" centers.

ELEVATION

ABUTMENTS 1 & 2



SECTION A-A
For Cap & Breastwall Details See Section B-B Sheet 7

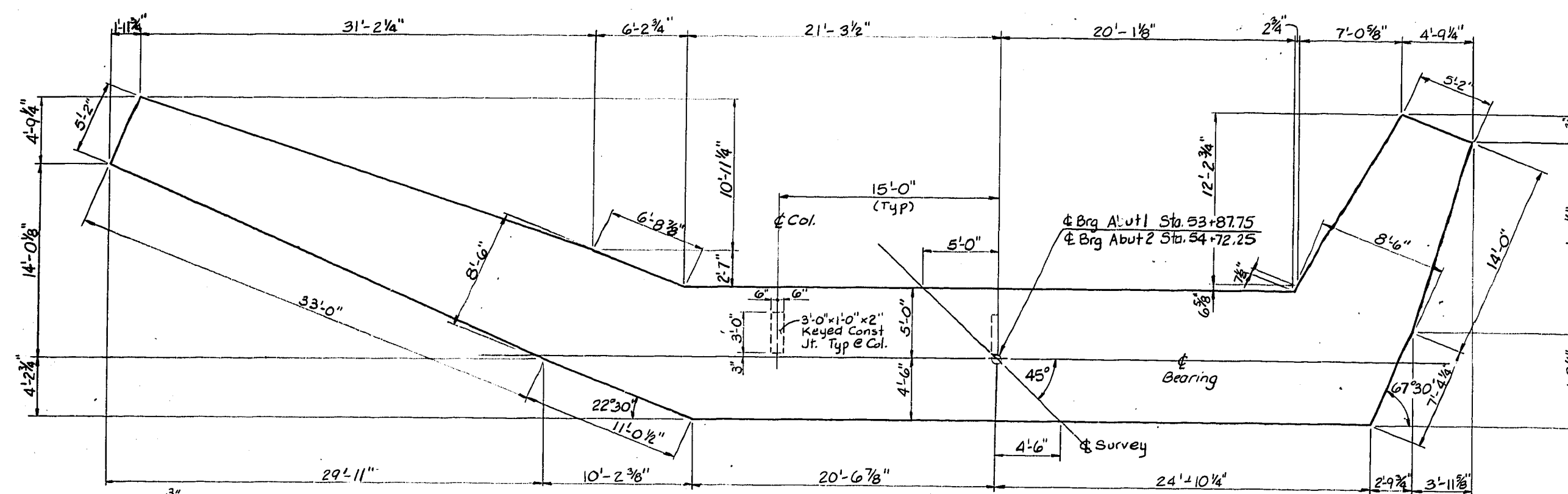


SECTION C-C

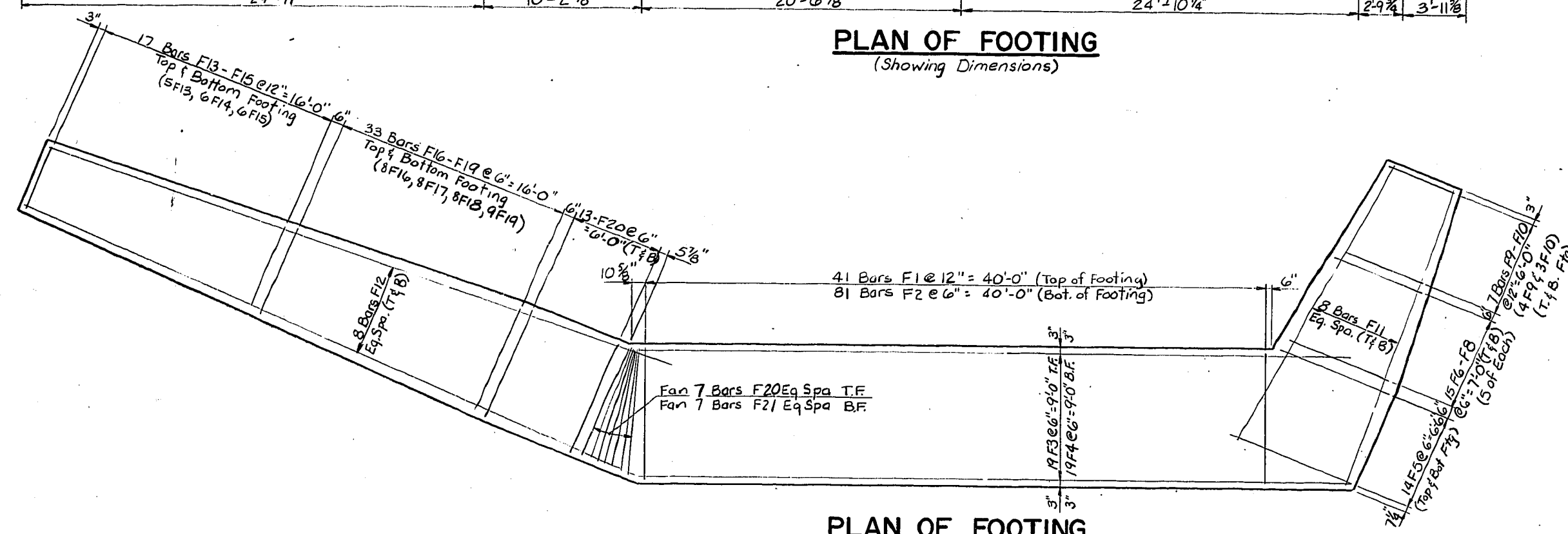
KY. 49 OVER MARTINS CREEK SHEET 6

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
CASEY
LIBERTY - BRADFORDSVILLE ROAD
ROAD

STATION 54+30 P. E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20310

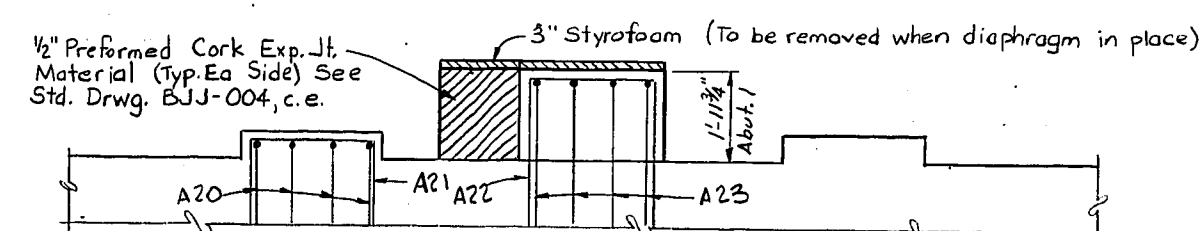


PLAN OF FOOTING
(Showing Dimensions)

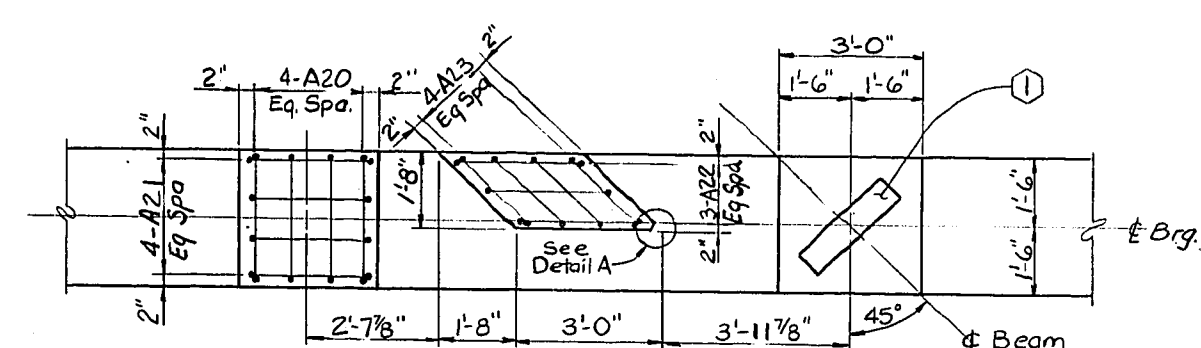


5/3

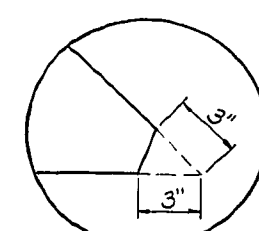
PLAN OF FOOTING
(Showing Reinforcement)



PEDESTAL AND SHEAR KEY ELEVATION



PEDESTAL AND SHEAR KEY PLAN



DETAIL A

bevel corner to avoid sharp edge

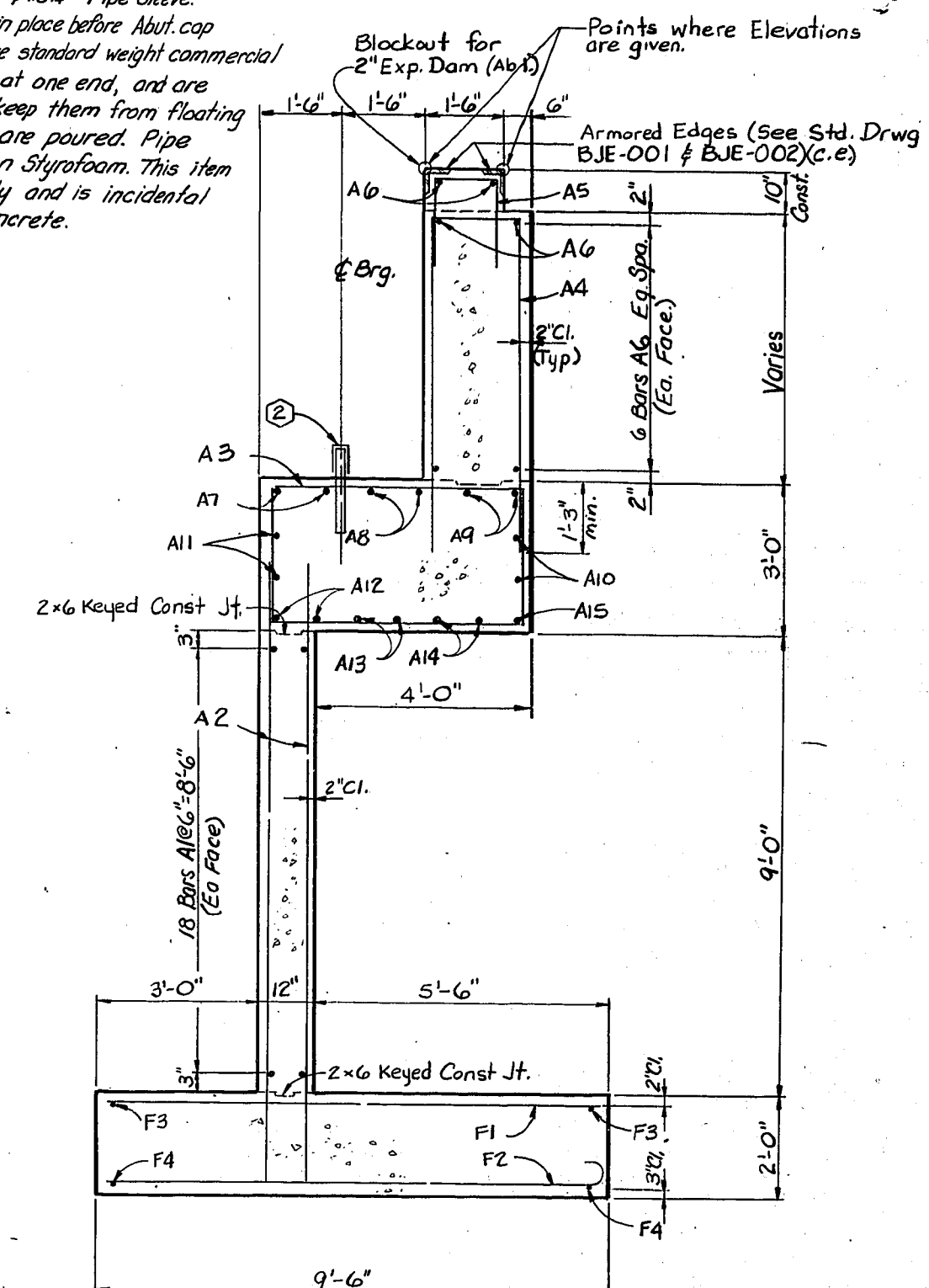
Note: No construction jts. allowed between pedestals, cap & shear key

① 2'-0" x 10" x 3 1/8" Elastomeric Brq. Pod Abut. /

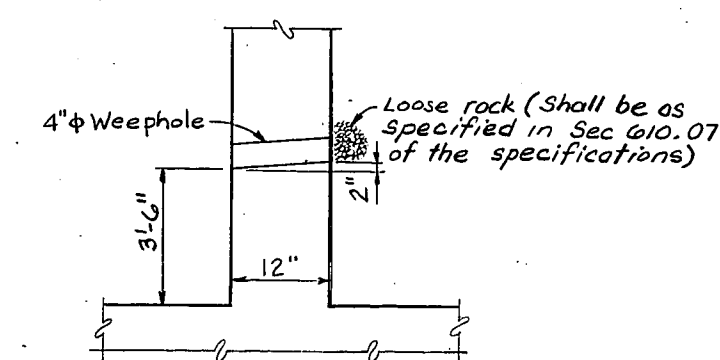
2'-0" x 4'-0" x 1/4" Elastomeric Brg. Pad (with clipped corners) Abut. 2.

② $1\frac{1}{2}" \phi \times 2'-0"$ Dowel w/ $2" \phi \times 5\frac{1}{4}"$ Pipe Sleeve.

Dowels are to be in place before Abut. cap is poured. Sleeves are standard weight commercial pipe sleeves, closed at one end, and are to be secured to keep them from floating while diaphragms are poured. Pipe sleeves are to sit on Styrofoam. This item is for Abut. 2. only and is incidental to Class "A" Concrete.



SECTION B-B



DETAIL Z

KY. 49 OVER MARTINS CREEK

SHEET 7

COMMONWEALTH OF KENTUCKY BUREAU OF HIGHWAYS

BUREAU OF HIGHWAYS

FRANKFORT

ITY OF

CASEY

LIBERTY - BRADFORDSVILLE ROAD

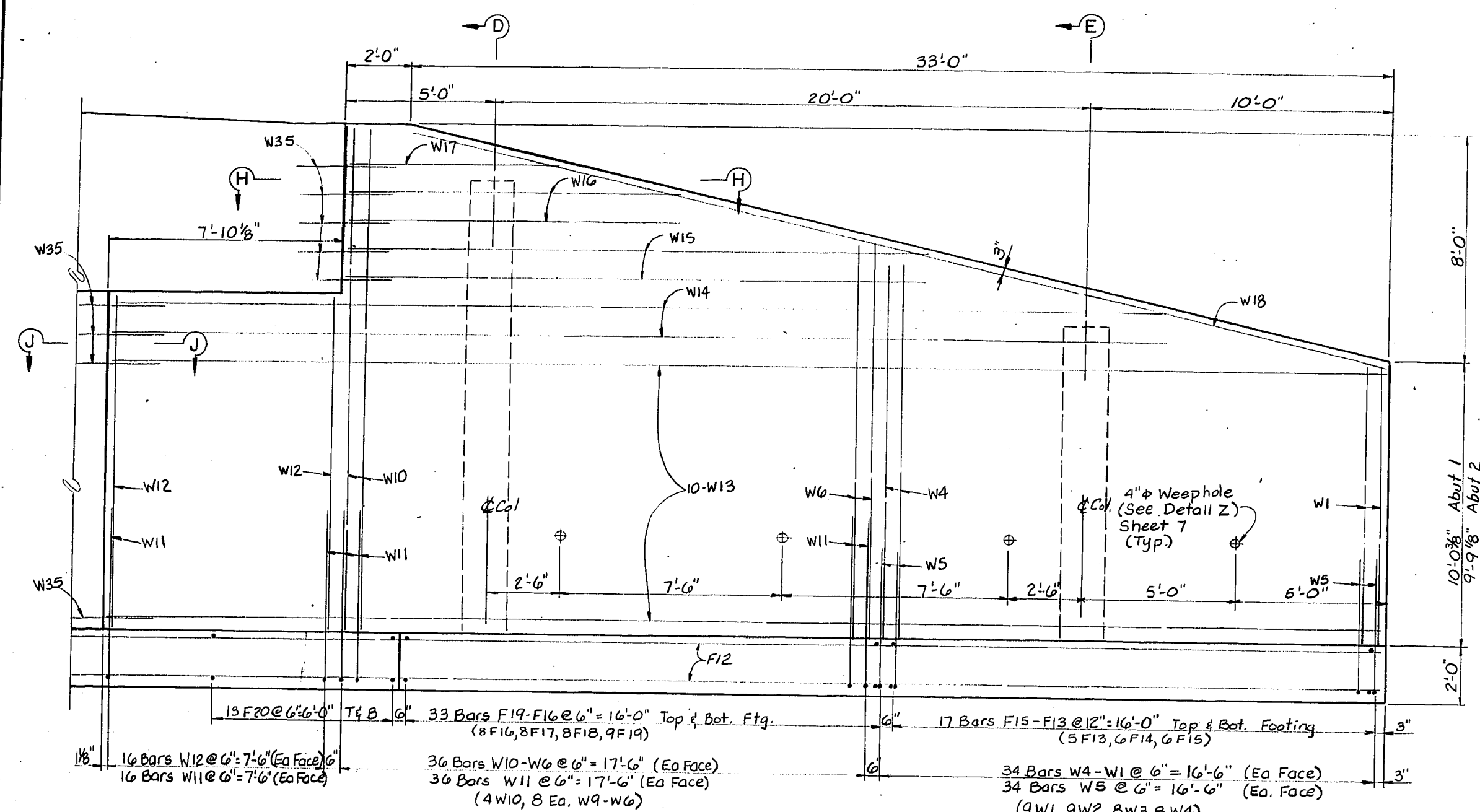
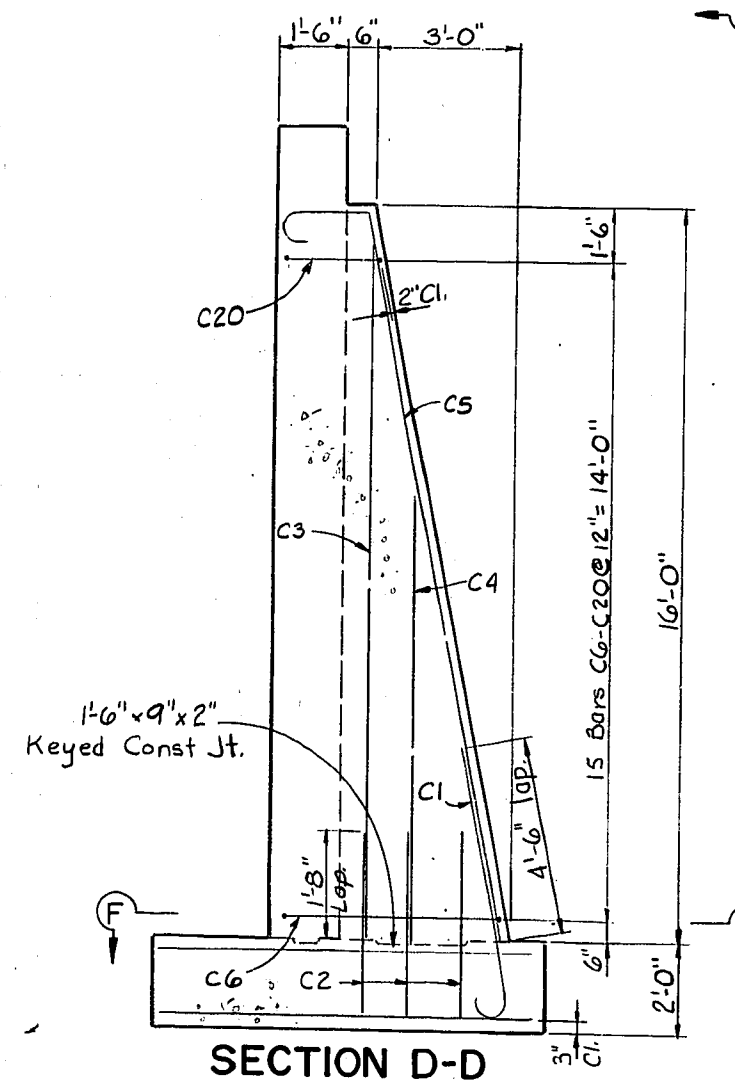
STATION 54+30 P. E. PROJECT NO.

STATION 54+30 P. E. PROJECT NO.

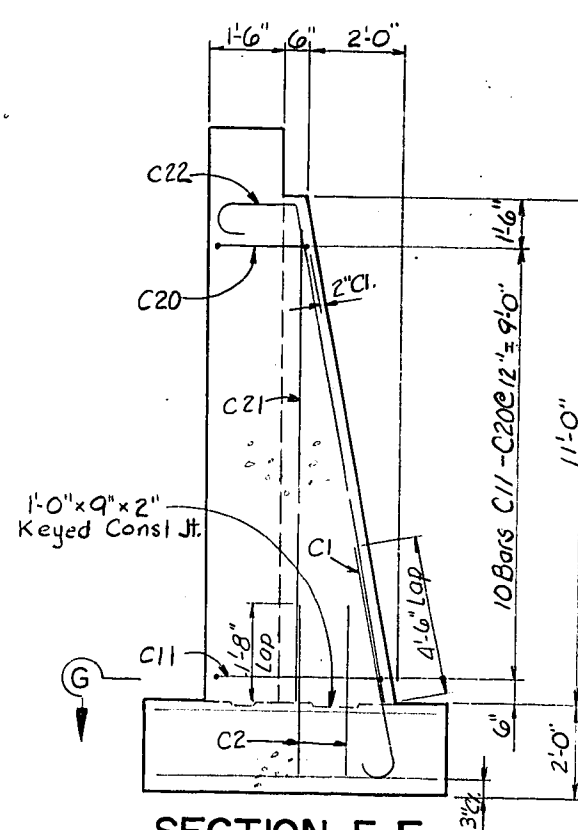
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
--------------------------	-------------------------	-------------

DRAWING NO.

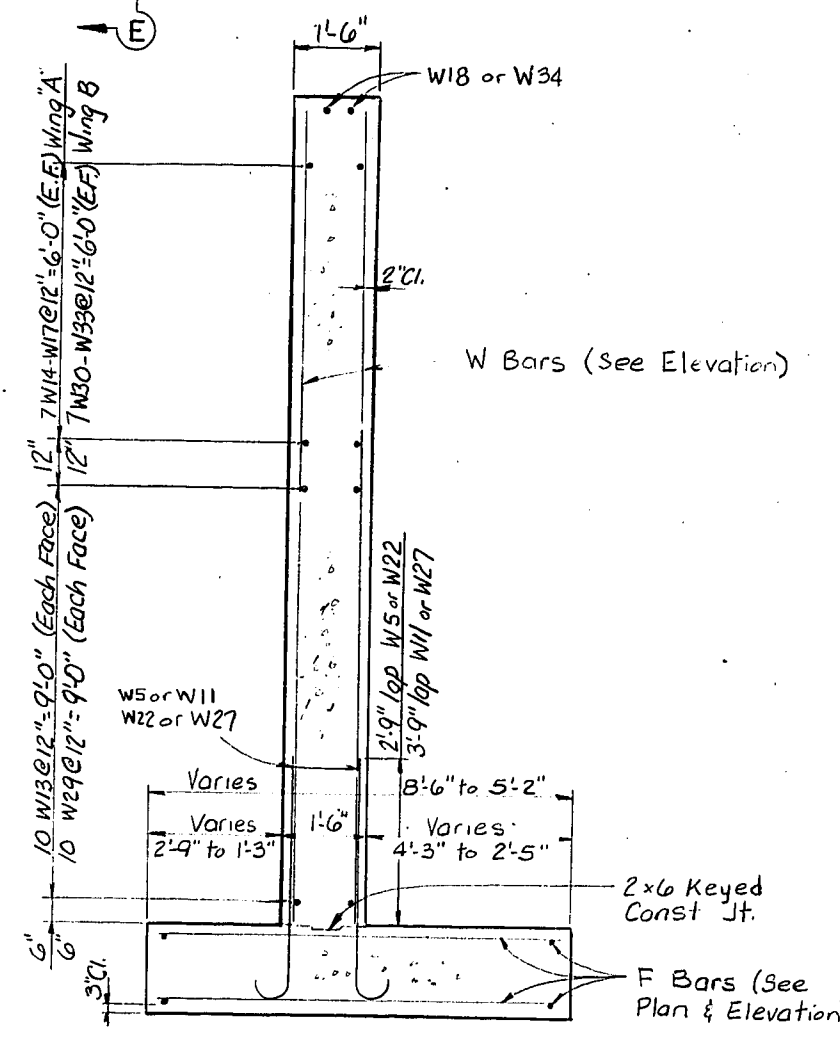
203/C

UPDATE DATE ..
ESTIMATING DATE ..WING A ELEVATION

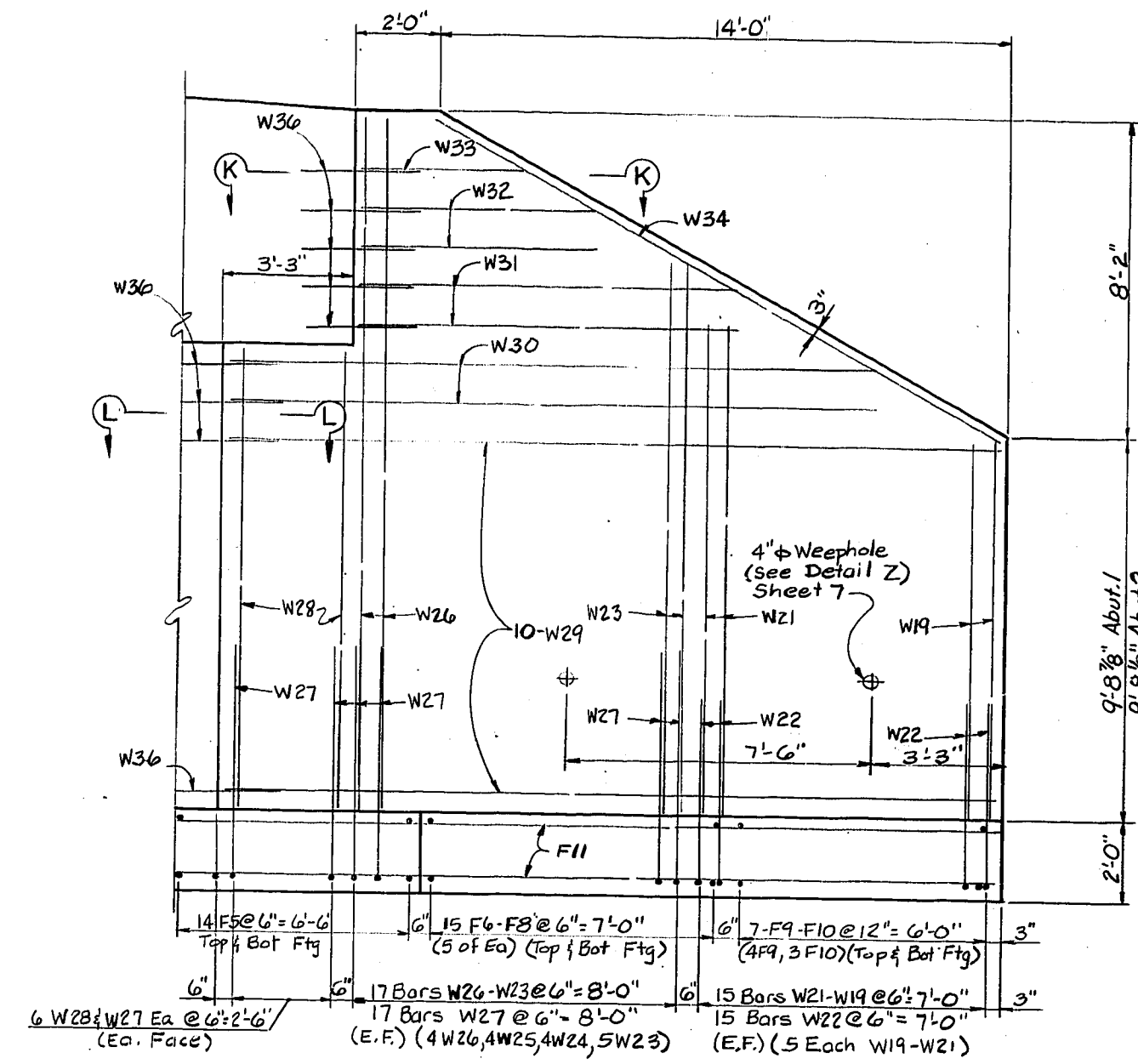
SECTION D-D



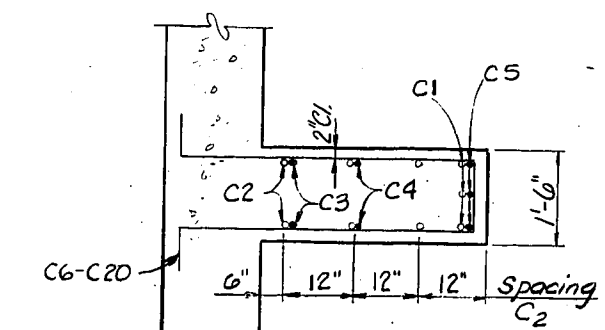
SECTION E-E



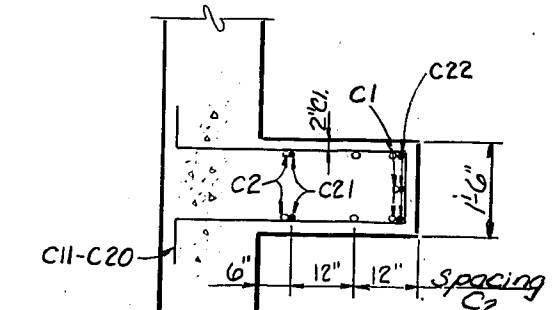
TYPICAL WING SECTION



WING B ELEVATION



SECTION F-F



SECTION G-G

ABUTMENTS 1 & 2

KY. 49 OVER MARTINS CREEK		SHEET 8	
COMMONWEALTH OF KENTUCKY			
BUREAU OF HIGHWAYS			
FRANKFORT			
COUNTY OF			
CASEY			
LIBERTY - BRADFORDSVILLE ROAD			
ROAD			
STATION 54+30		P. E. PROJECT NO.	
CONSTRUCTION PROJECT NO.		MAINTENANCE PROJECT NO.	
		DRAWING NO. 20310	

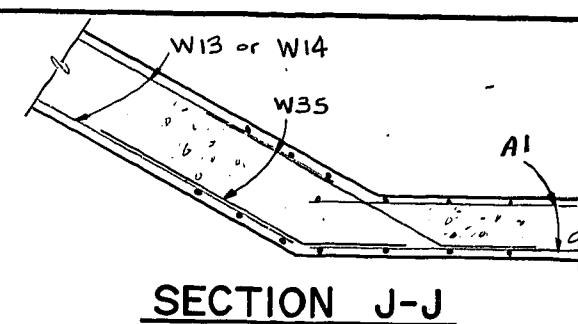
UPDATE DATE
LETTER DATE

DESIGNED BY
CHECKED BY
DATE
REVISIONS
DATE
REVISIONS
DATE
REVISIONS
DATE
REVISIONS

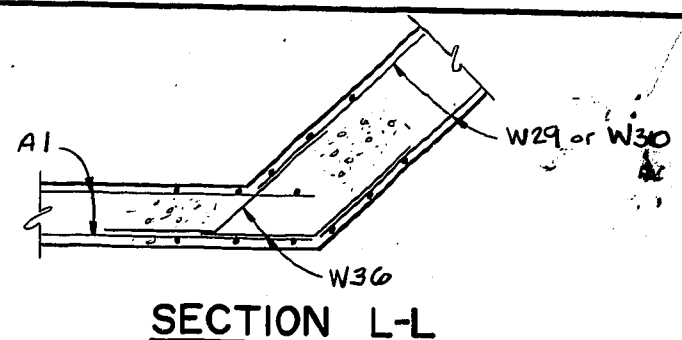
BILL OF REINFORCEMENT

MARK	TYPE	SIZE	NUMBER	LENGTH	LOCATION	a	b	c	d
			AB1	AB2	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.
A1	Str	#6	36	36	44 3	Breast wall			
A2	Str	#5	82	82	12 0	"			
A3	①	#5	41	41	15 5	Cap	4 8	2 8	
A4	②	#5	53	53	14 9	Parapet	1 8	6 7	
A5	②	#5	53	53	4 11	"	1 2	1 11	
A6	Str	#5	14	14	51 0	"			
A7	Str	#8	2	2	44 3	Cap			
A8	Str	#8	2	2	47 8				
A9	Str	#8	2	2	49 4				
A10	Str	#6	2	2	52 9				
A11	Str	#6	2	2	44 3				
A12	Str	#7	2	2	44 3				
A13	Str	#7	2	2	47 8				
A14	Str	#7	2	2	49 4				
A15	Str	#7	1	1	52 9	Cap			
A16	③	#7	12	12	6 5	Columns	See Bar Type		
A17	④	#7	36	36	6 5		5 3	1 2	0 7 5 6 1/2
A18	Str	#7	48	48	10 8				
A19	②	#5	54	54	9 5	Columns	1 8	3 11	
A20	②	#5	16	16	5 11	Pedestals	2 8	1 8	
A21	②	#5	16	16	5 11	"	2 8	1 8	
A22	②	#5	3	—	8 9	Shear Key	2 8	3 1	
A23	②	#5	4	—	8 1	"	2 0	3 1	
C1	④	#8	6	6	7 5	Wing Counterforts	5 11	1 6	0 8 6 3
C2	Str	#5	10	10	3 5				
C3	Str	#5	2	2	15 8				
C4	Str	#5	2	2	9 10				
C5	⑤	#8	3	3	18 10		16 1 3/8	3 0	15 10
C6	⑥	#5	1	1	10 10		1 2	4 5	
C7	⑥	#5	1	1	10 6		1 2	4 3	
C8	⑥	#5	1	1	10 2		1 2	4 1	
C9	⑥	#5	1	1	9 10		1 2	3 11	
C10	⑥	#5	1	1	9 6		1 2	3 9	
C11	⑥	#5	2	2	9 2		1 2	3 7	
C12	⑥	#5	2	2	8 10		1 2	3 5	
C13	⑥	#5	2	2	8 4		1 2	3 2	
C14	⑥	#5	2	2	8 0		1 2	3 0	
C15	⑥	#5	2	2	7 8		1 2	2 10	
C16	⑥	#5	2	2	7 4		1 2	2 8	
C17	⑥	#5	2	2	6 10		1 2	2 5	
C18	⑥	#5	2	2	6 6		1 2	2 3	
C19	⑥	#5	2	2	6 2		1 2	2 1	
C20	⑥	#5	2	2	5 10		1 2	1 11	
C21	Str	#5	2	2	10 8				
C22	⑤	#8	3	3	13 9	Wing Counterforts	11 0 1/4	2 0	10 10
F1	Str	#5	41	41	9 2	Abutment Footing			
F2	④	#6	81	81	9 11		8 11	0 12	0 6 9 2
F3	Str	#5	19	19	45 0				
F4	Str	#6	19	19	45 0	Abutment Footing			
F5	Str	#5	28	28	8 2	Short Wing Footing			

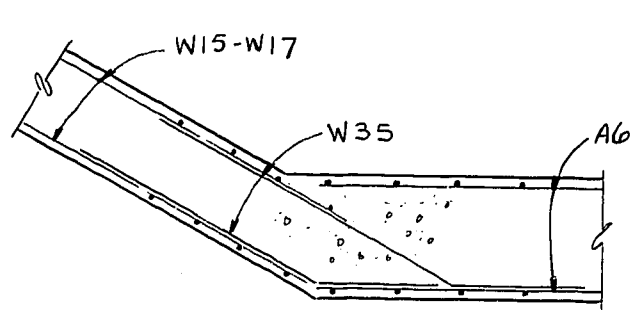
MARK	TYPE	SIZE	NUMBER	LENGTH	LOCATION	a	b	c	d
			AB1	AB2	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.
F6	Str	#5	10	10	7 0	Short Wing Footing			
F7	Str	#5	10	10	6 6				
F8	Str	#5	10	10	6 1				
F9	Str	#5	8	8	5 4				
F10	Str	#5	6	6	4 10				
F11	Str	#5	16	16	21 0	Short Wing Footing			
F12	Str	#5	16	16	44 0	Long Wing Footing			
F13	Str	#5	10	10	4 10				
F14	Str	#5	12	12	5 4				
F15	Str	#5	12	12	5 11				
F16	Str	#5	16	16	6 6				
F17	Str	#5	16	16	7 0				
F18	Str	#5	16	16	7 5				
F19	Str	#5	18	18	7 10				
F20	Str	#5	33	33	8 2				
F21	Str	#6	7	7	8 2	Long Wing Footing			
W1	Str	#5	18	18	9 7	Long Wing			
W2	Str	#5	18	18	10 8				
W3	Str	#5	16	16	11 9				
W4	Str	#5	16	16	12 6				
W5	④	#6	68	68	5 3		4 3	0 12	0 6 4 6
W6	Str	#5	16	16	13 6				
W7	Str	#5	16	16	14 7				
W8	Str	#5	16	16	15 7				
W9	Str	#5	16	16	16 6				
W10	Str	#5	8	8	17 6				
W11	④	#7	104	104	6 5		5 3	1 2	0 7 5 6 1/2
W12	Str	#5	32	32	11 10				
W13	Str	#5	20	20	42 6				
W14	Str	#5	4	4	37 4				
W15	Str	#5	4	4	21 1				
W16	Str	#5	4	4	12 10				
W17	Str	#5	2	2	8 9				
W18	Str	#6	2	2	33 11	Long Wing			
W19	Str	#5	10	10	9 6	Short Wing			
W20	Str	#5	10	10	11 1				
W21	Str	#5	10	10	12 6				
W22	④	#6	30	30	5 3		4 3	0 12	0 6 4 6
W23	Str	#5	10	10	14 0				
W24	Str	#5	8	8	15 5				
W25	Str	#5	8	8	16 8				
W26	Str	#5	8	8	17 9				
W27	④	#7	46	46	6 5		5 3	1 2	0 7 5 6 1/2
W28	Str	#5	12	12	11 10				
W29	Str	#5	20	20	19 0				
W30	Str	#5	4	4	16 6				
W31	Str	#5	4	4	9 10				
W32	Str	#5	4	4	6 4				
W33	Str	#5	2	2	4 8				
W34	Str	#6	2	2	16 0	Short Wing			
W35	⑦	#5	34	34	9 2	Long Wing	7 0	6 5 1/2	2 8 1/8
W36	⑦	#5	34	34	4 4	Short Wing	2 0	0 9 1/8	1 10 1/8



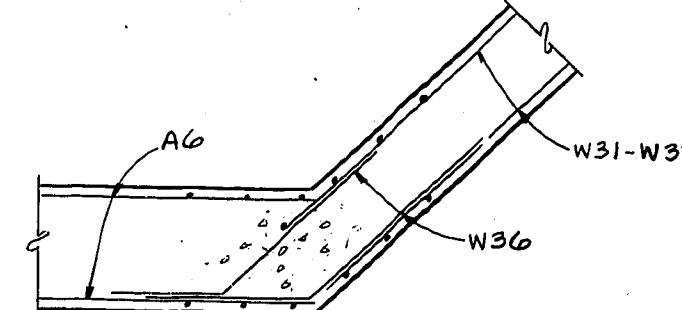
SECTION J-J



SECTION L-L

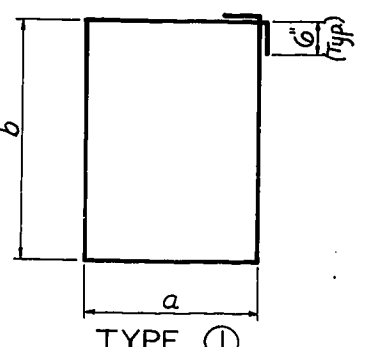


SECTION H-H

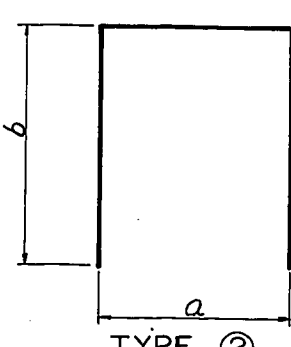


SECTION K-K

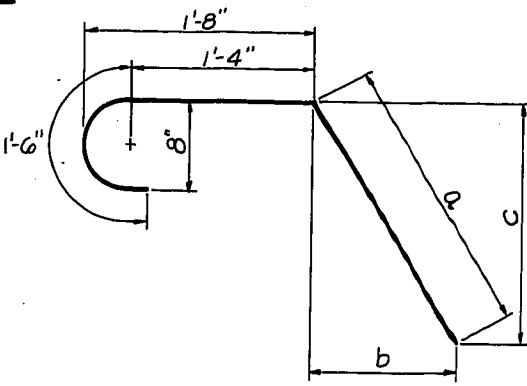
BAR TYPES



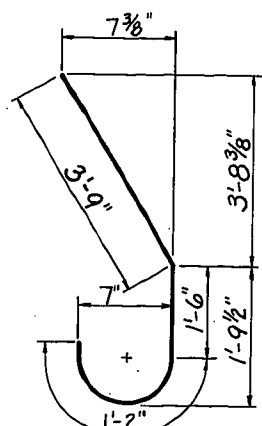
TYPE ①



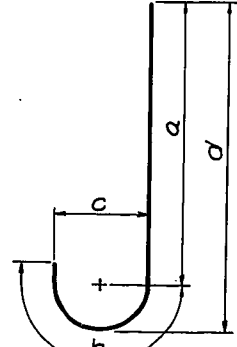
TYPE ②



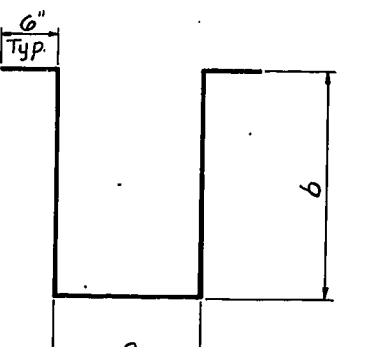
TYPE ⑤



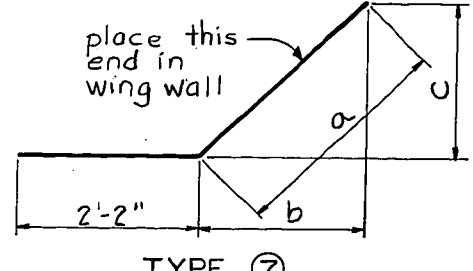
TYPE ③



TYPE ④



TYPE ⑥



TYPE ⑦

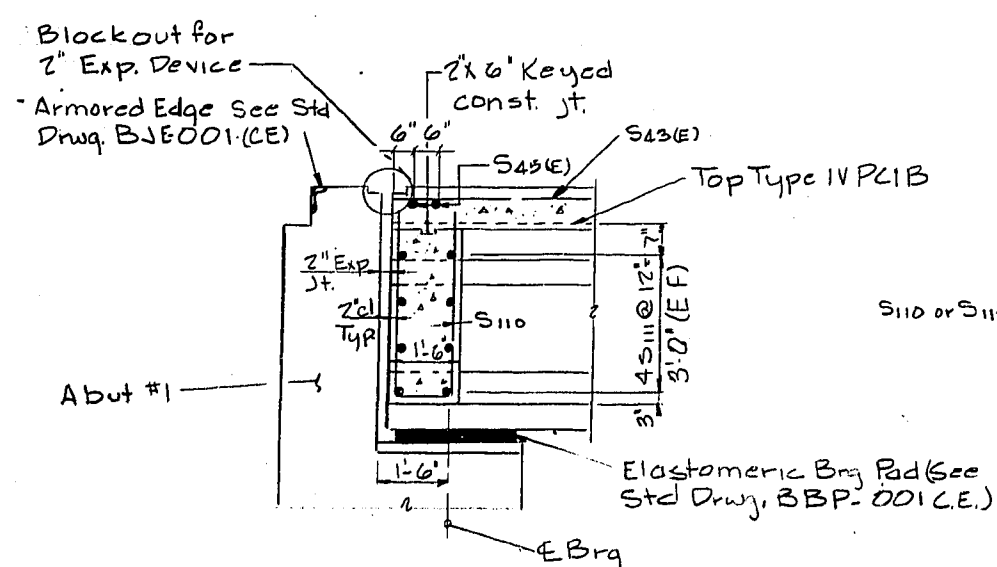
ABUTMENTS 1 & 2

KY. 49 OVER MARTINS CREEK SHEET 9

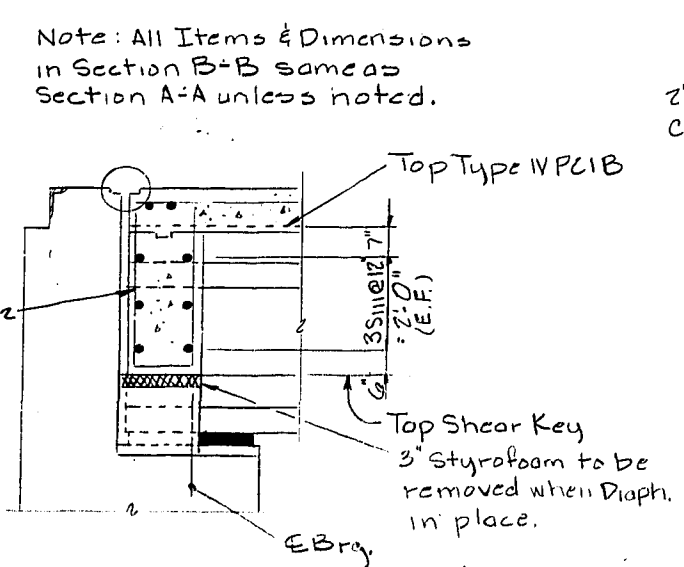
COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
CASEY
LIBERTY - BRADFORDSVILLE ROAD

STATION 54+30 P. E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 120310

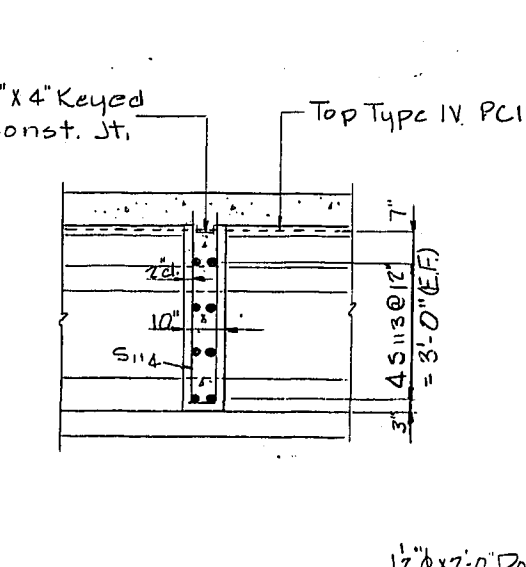
UPDATE DATE
LETTING DATE



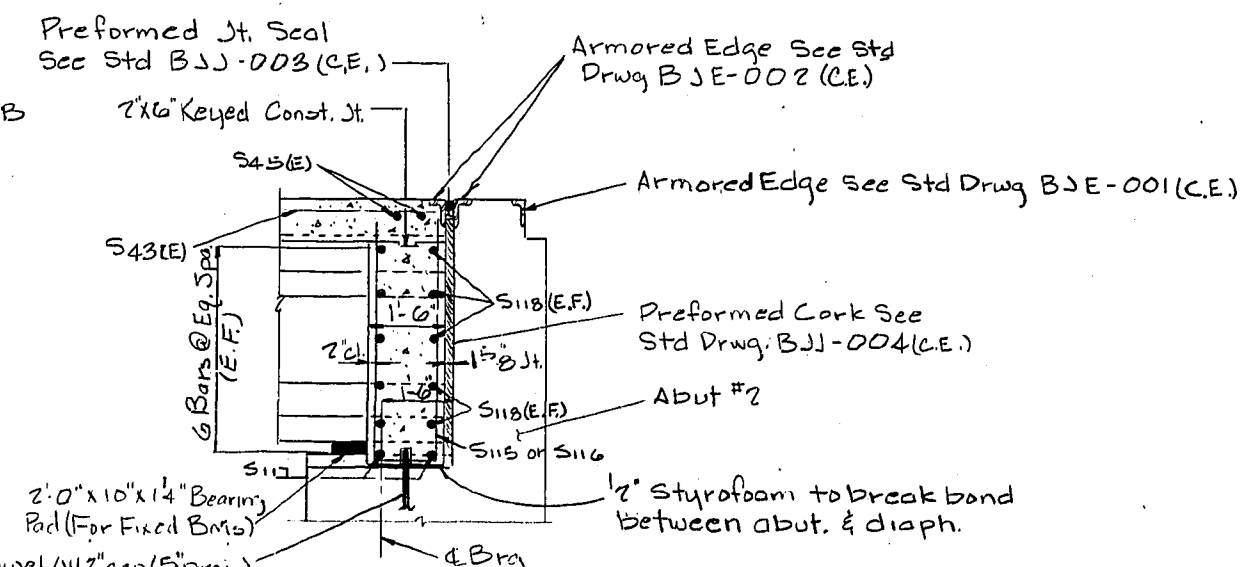
SECTION A-A



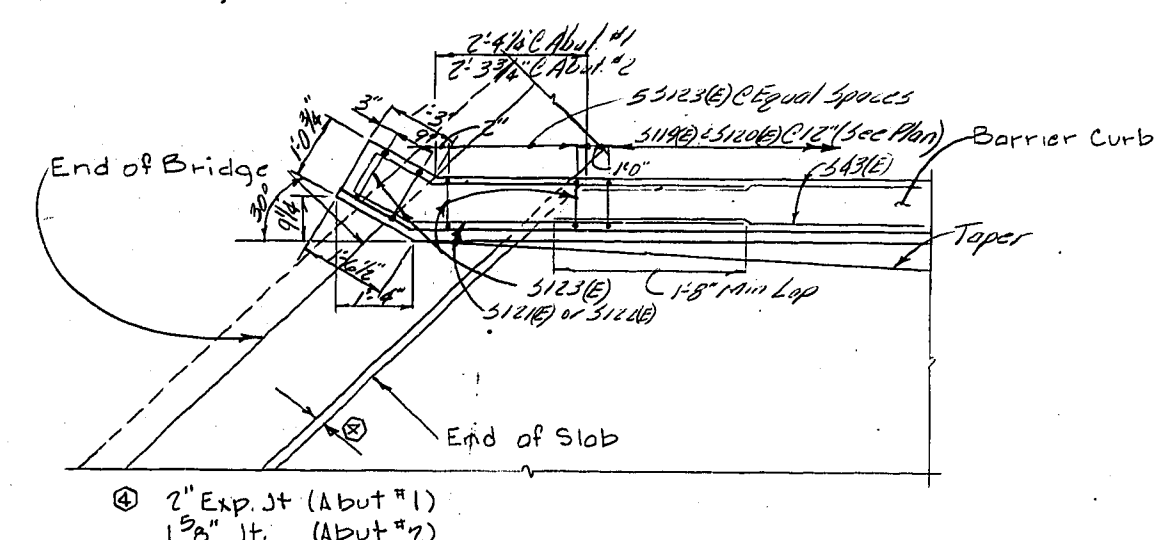
SECTION B-B



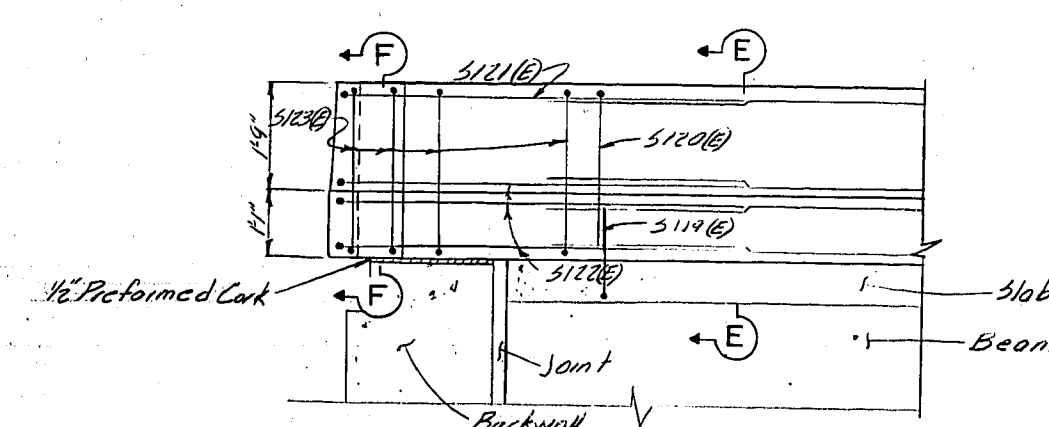
SECTION C-C



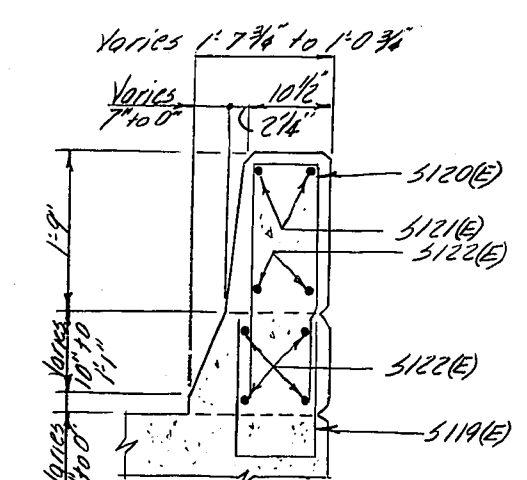
SECTION D-D



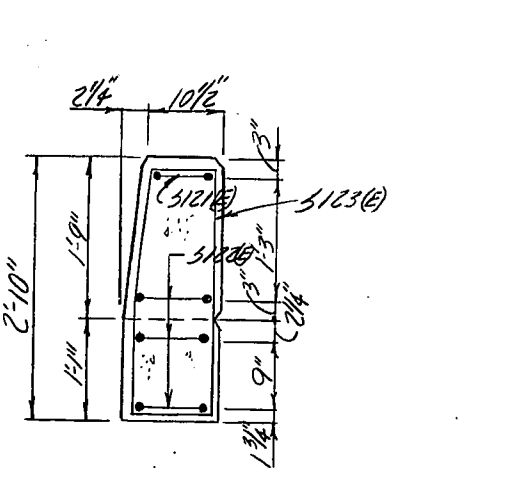
PLAN (TURNBACK)



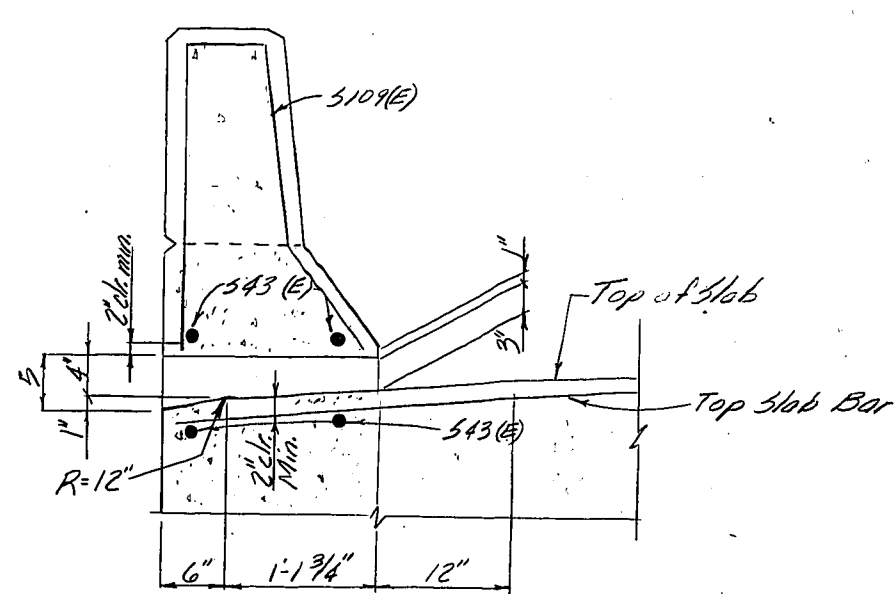
ELEVATION (TURNBACK)



SECTION E-E

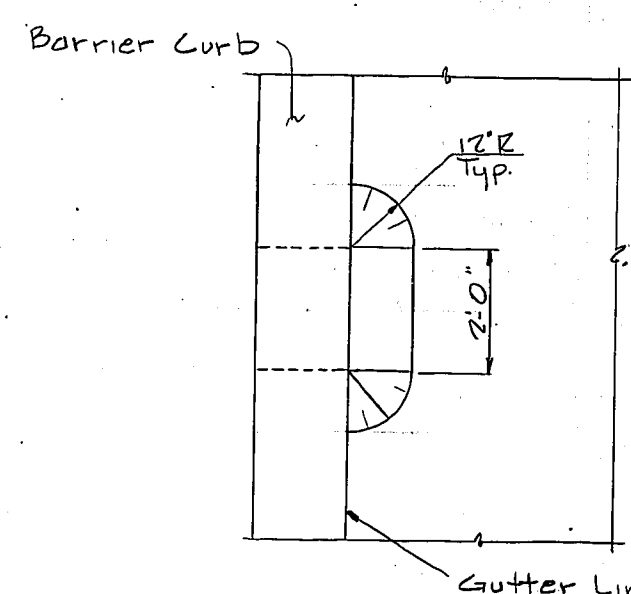


SECTION F-F

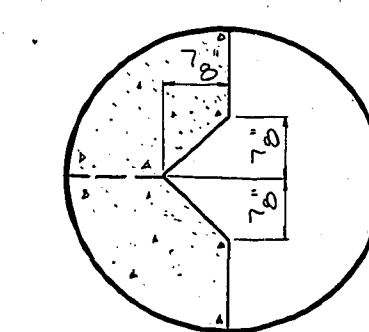


SECTION THRU DRAIN SLOT

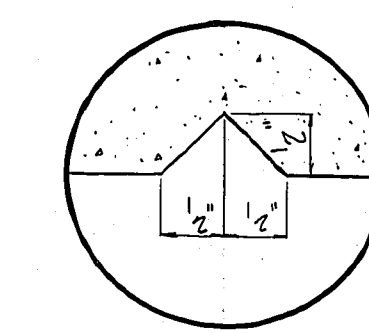
Note: Place transverse and longitudinal reinforcement in the slab and barrier curb so as to maintain 2" min. clearance from slot. (Field band if necessary). Place 3/8" bars around drain slot - field cut 3/8" if necessary to maintain 2" min. clearance.



DRAIN SLOT PLAN



RUSTICATION GROOVE



DRIP NOTCH

DESIGNED BY: JAN
CHECKED BY: JMB
DATE: 6-81
REVISIONS:
DATE: 6-81
REVISIONS:
DATE: 6-81
REVISIONS:
DATE: 6-81
REVISIONS:

SUPERSTRUCTURE

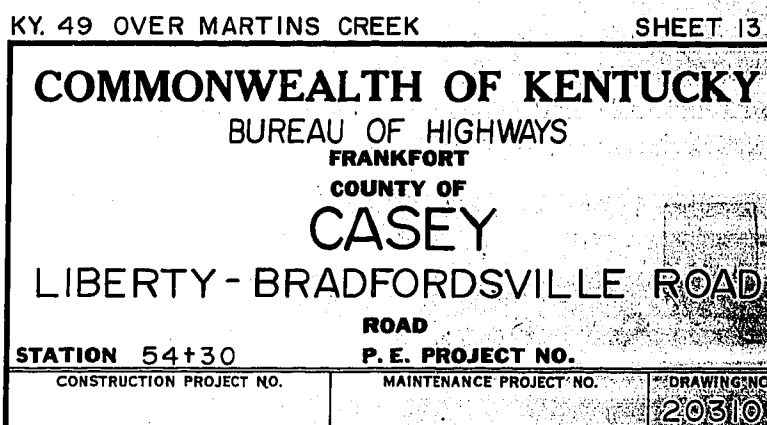
KY. 49 OVER MARTINS CREEK SHEET 11

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF
CASEY
LIBERTY - BRADFORDSVILLE ROAD
ROAD
STATION 54+30
P. E. PROJECT NO.
CONSTRUCTION PROJECT NO.
MAINTENANCE PROJECT NO.
DRAWING NO.
20310

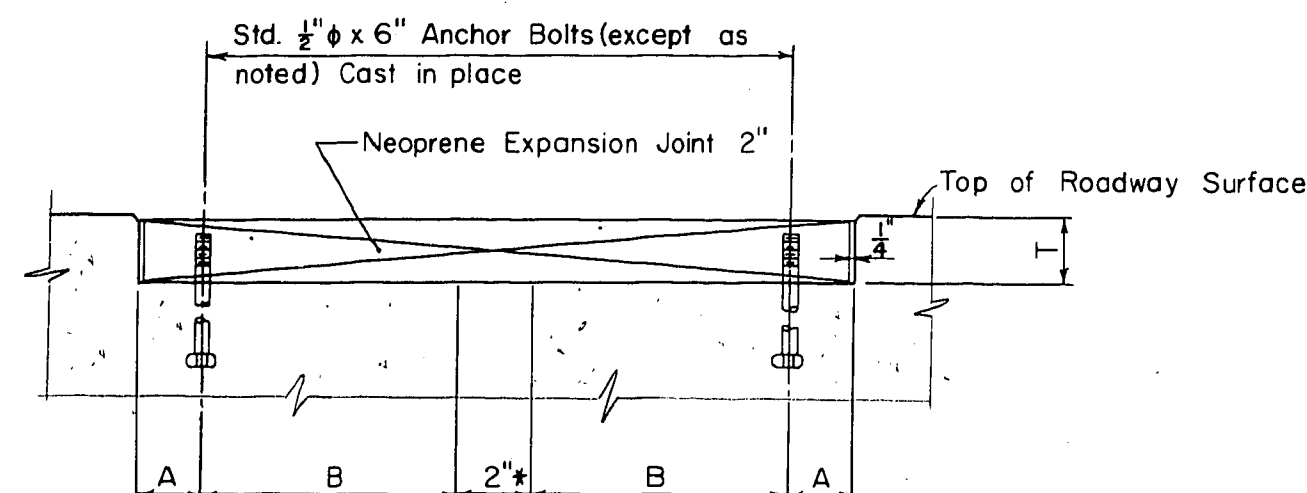
MARK	TYPE	SIZE	NO.	LENGTH		LOCATION	a		b		c		d	
				FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.		
S50E	Str.	5	2	3	9	Top Slab								
S51E				4	3									
S52E				4	9									
S53E				5	3									
S54E				5	9									
S55E				6	3									
S56E				6	9									
S57E				7	3									
S58E				7	9									
S59E				8	3									
S60E				8	9									
S61E				9	3									
S62E				9	9									
S63E				10	3									
S64E				10	9									
S65E				11	3									
S66E				11	9									
S67E				12	3									
S68E				12	9									
S69E				13	3									
S70E				13	9									
S71E				14	3									
S72E				14	9									
S73E				15	3									
S74E				15	9									
S75E				16	3									
S76E				16	9									
S77E				17	3									
S78E				17	9									
S79E				18	3									
S80E				18	9									
S81E				19	3									
S82E				19	9									
S83E				20	3									
S84E				20	9									
S85E				21	3									
S86E				21	9									
S87E				22	3									
S88E				22	9									
S89E				23	3									
S90E				23	9									
S91E				24	3									
S92E				24	9									
S93E				25	3									
S94E				25	9									
S95E				26	3									
S96E				26	9									
S97E				27	3									
S98E	Str	5	2	27	9	Top Slab								

ESTIMATE OF QUANTITIES		
ITEM	QUANTITY	UNIT
CONCRETE, CLASS "AA"	116.9	CU. YDS.
EPOXY COATED REINFORCEMENT	12858	LBS.
STEEL REINFORCEMENT	7669	LBS.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



UPDATE DATE
LETTING DATE



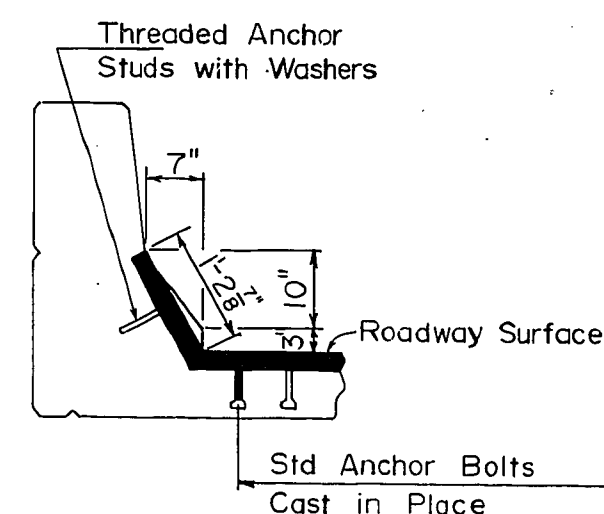
SECTION A-A

* At 60° F
Dimensions are at right angles.

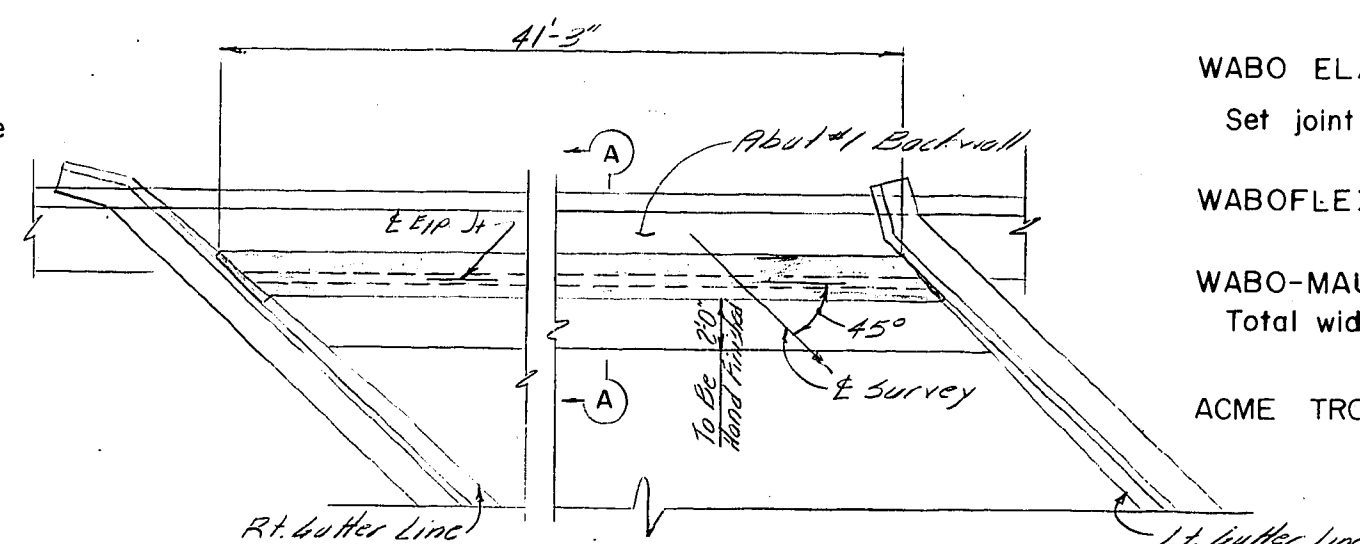
NOTE: Joint openings shall be adjusted for each 10° above or below 60°F, decrease or increase respectively by increment shown in table below.

* SPAN	SPAN 60' to 160'					
	To 60'	61' to 80'	81' to 100'	101' to 120'	121' to 140'	141' to 160'
INCREMENT	0.468"	0.624"	0.780"	0.936"	1.092"	1.25"
	3/64"	1/16"	5/64"	3/32"	7/64"	1/8"

* Span is defined in Sketch



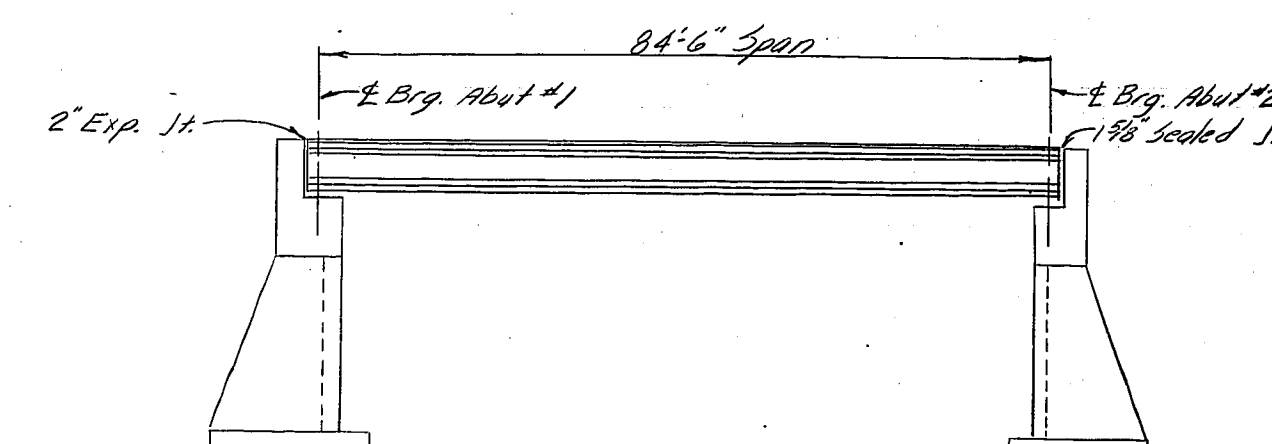
TYPICAL END TREATMENT



PLAN OF NEOPRENE EXP. DAM ABUTMENT I

ALTERNATE NEOPRENE EXPANSION JOINTS

MODEL	SUPPLIER	BLOCKOUT DIMENSIONS
FEL-SPAN, MODEL T-30 Set joint seal 1 5/8" at 60°F	Fel-Pro Building Products, Inc.	T=1 3/4" A=2 3/8" B=3"
LOW PROFILE ONFLEX-25 Set joint seal 1 1/2" at 60°F Roadway bolt channel shall be filled with approved grout	Structural Accessories, Inc.	T=1 3/4" A=1 5/8" B=2 3/8"
TRANSFLEX, MODEL 200A	General Tire Company	T=1 13/16" A=1 5/8" B=3 5/16"
WABO ELASTODAM, TYPE 300 Set joint seal 1 5/8" at 60°F	Watson Bowman Associates, Inc.	T=1 3/4" A=2 3/8" B=3"
WABOFLEX, MODEL SR 2	Watson Bowman Associates, Inc.	T=1 11/16" A=1 1/4" B=3 1/16"
WABO-MAURER SB-300 Total width of blockout at 60°F is 9 1/2"	Watson Bowman Associates, Inc.	T=2 7/8"
ACME TROJAN, TYPE TR300	Acme Highway Products, Corp.	T=1 3/4" A=1 3/4" B=2 1/4"



SECTION ALONG C-C

KY. 49 OVER MARTINS CREEK SHEET 14

COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF

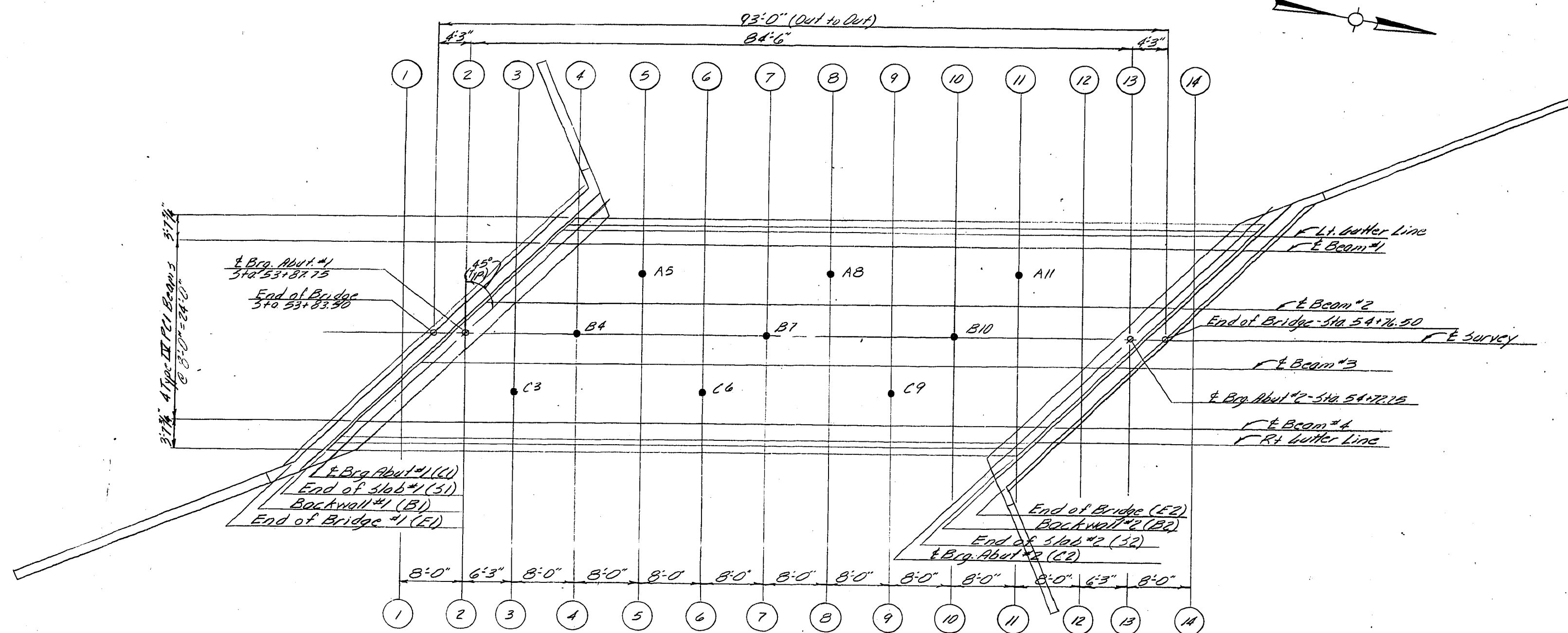
CASEY
LIBERTY - BRADFORDSVILLE ROAD

ROAD
STATION 54+30 P.E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20310

NEOPRENE EXPANSION JOINTS (2")

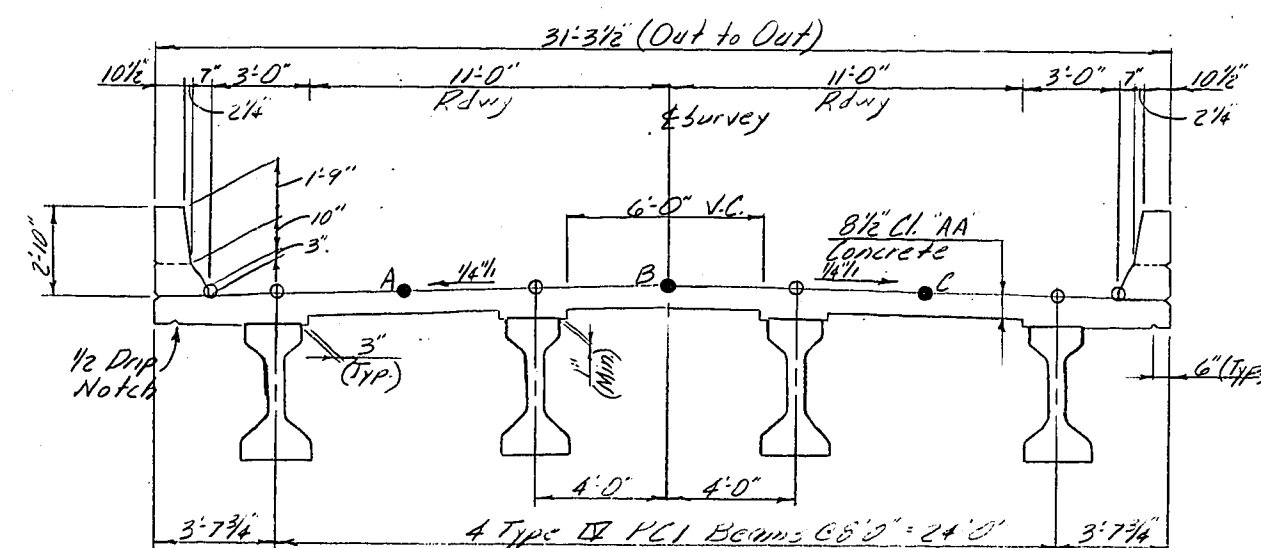
UPDATE DATE
LETTERING DATE

DESIGNED BY: CLP CHECKED BY: CLP DATE: 4/11
 REVISIONS: 1 DATE: 4/11
 REVISIONS: 2 DATE: 4/11
 REVISIONS: 3 DATE: 4/11
 REVISIONS: 4 DATE: 4/11
 REVISIONS: 5 DATE: 4/11
 REVISIONS: 6 DATE: 4/11
 REVISIONS: 7 DATE: 4/11
 REVISIONS: 8 DATE: 4/11
 REVISIONS: 9 DATE: 4/11
 REVISIONS: 10 DATE: 4/11
 REVISIONS: 11 DATE: 4/11
 REVISIONS: 12 DATE: 4/11
 REVISIONS: 13 DATE: 4/11
 REVISIONS: 14 DATE: 4/11
 REVISIONS: 15 DATE: 4/11
 REVISIONS: 16 DATE: 4/11
 REVISIONS: 17 DATE: 4/11
 REVISIONS: 18 DATE: 4/11
 REVISIONS: 19 DATE: 4/11
 REVISIONS: 20 DATE: 4/11
 REVISIONS: 21 DATE: 4/11
 REVISIONS: 22 DATE: 4/11
 REVISIONS: 23 DATE: 4/11
 REVISIONS: 24 DATE: 4/11
 REVISIONS: 25 DATE: 4/11
 REVISIONS: 26 DATE: 4/11
 REVISIONS: 27 DATE: 4/11
 REVISIONS: 28 DATE: 4/11
 REVISIONS: 29 DATE: 4/11
 REVISIONS: 30 DATE: 4/11
 REVISIONS: 31 DATE: 4/11
 REVISIONS: 32 DATE: 4/11
 REVISIONS: 33 DATE: 4/11
 REVISIONS: 34 DATE: 4/11
 REVISIONS: 35 DATE: 4/11
 REVISIONS: 36 DATE: 4/11
 REVISIONS: 37 DATE: 4/11
 REVISIONS: 38 DATE: 4/11
 REVISIONS: 39 DATE: 4/11
 REVISIONS: 40 DATE: 4/11
 REVISIONS: 41 DATE: 4/11
 REVISIONS: 42 DATE: 4/11
 REVISIONS: 43 DATE: 4/11
 REVISIONS: 44 DATE: 4/11
 REVISIONS: 45 DATE: 4/11
 REVISIONS: 46 DATE: 4/11
 REVISIONS: 47 DATE: 4/11
 REVISIONS: 48 DATE: 4/11
 REVISIONS: 49 DATE: 4/11
 REVISIONS: 50 DATE: 4/11
 REVISIONS: 51 DATE: 4/11
 REVISIONS: 52 DATE: 4/11
 REVISIONS: 53 DATE: 4/11
 REVISIONS: 54 DATE: 4/11
 REVISIONS: 55 DATE: 4/11
 REVISIONS: 56 DATE: 4/11
 REVISIONS: 57 DATE: 4/11
 REVISIONS: 58 DATE: 4/11
 REVISIONS: 59 DATE: 4/11
 REVISIONS: 60 DATE: 4/11
 REVISIONS: 61 DATE: 4/11
 REVISIONS: 62 DATE: 4/11
 REVISIONS: 63 DATE: 4/11
 REVISIONS: 64 DATE: 4/11
 REVISIONS: 65 DATE: 4/11
 REVISIONS: 66 DATE: 4/11
 REVISIONS: 67 DATE: 4/11
 REVISIONS: 68 DATE: 4/11
 REVISIONS: 69 DATE: 4/11
 REVISIONS: 70 DATE: 4/11
 REVISIONS: 71 DATE: 4/11
 REVISIONS: 72 DATE: 4/11
 REVISIONS: 73 DATE: 4/11
 REVISIONS: 74 DATE: 4/11
 REVISIONS: 75 DATE: 4/11
 REVISIONS: 76 DATE: 4/11
 REVISIONS: 77 DATE: 4/11
 REVISIONS: 78 DATE: 4/11
 REVISIONS: 79 DATE: 4/11
 REVISIONS: 80 DATE: 4/11
 REVISIONS: 81 DATE: 4/11
 REVISIONS: 82 DATE: 4/11
 REVISIONS: 83 DATE: 4/11
 REVISIONS: 84 DATE: 4/11
 REVISIONS: 85 DATE: 4/11
 REVISIONS: 86 DATE: 4/11
 REVISIONS: 87 DATE: 4/11
 REVISIONS: 88 DATE: 4/11
 REVISIONS: 89 DATE: 4/11
 REVISIONS: 90 DATE: 4/11
 REVISIONS: 91 DATE: 4/11
 REVISIONS: 92 DATE: 4/11
 REVISIONS: 93 DATE: 4/11
 REVISIONS: 94 DATE: 4/11
 REVISIONS: 95 DATE: 4/11
 REVISIONS: 96 DATE: 4/11
 REVISIONS: 97 DATE: 4/11
 REVISIONS: 98 DATE: 4/11
 REVISIONS: 99 DATE: 4/11
 REVISIONS: 100 DATE: 4/11

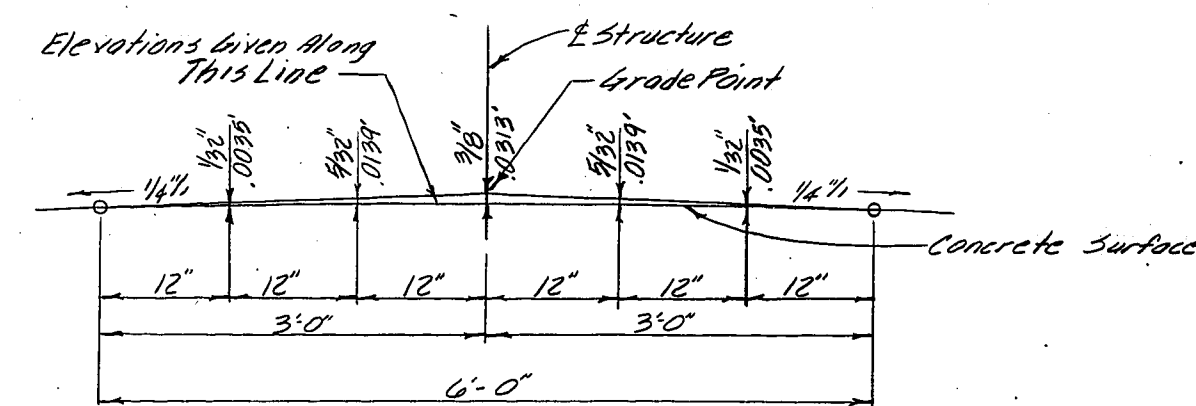


PLAN

- Points where Elevations are given.
- Points where Elevations are given for Control of Slab thickness.



SECTION THRU DECK



PARABOLIC CROWN DETAIL

CONSTRUCTION ELEVATIONS

KY. 49 OVER MARTINS CREEK SHEET 15
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CASEY
 LIBERTY - BRADFORDSVILLE ROAD
 ROAD
 STATION 54+30
 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO.
 MAINTENANCE PROJECT NO.
 DRAWING NO.
 20310

UPDATE DATE
LETTING DATE

TABLE OF ELEVATIONS																			
LOCATION	E1	B1	S1	C1	1-1	2-2	3-3	4-4	5-5	6-6	7-7	8-8	9-9	10-10	11-11	12-12	13-13	14-14	C2
GUTTER LINE LEFT			818.410	818.404				818.404	818.407	818.408	818.404	818.393	818.376	818.348	818.317	818.274	818.240	818.189	818.151
TOP CONC. BM. 1	818.464	818.458	818.457	818.452				818.453	818.456	818.455	818.450	818.436	818.419	818.388	818.354	818.311	818.275	818.224	818.198
TOP BM. 1								817.568	817.571	817.584	817.621	817.565	817.561	817.542	817.515	817.479	817.433	817.343	
DIMENSION "X"								.885	.877	.871	.824	.871	.858	.846	.839	.841	.842	.881	
TOP CONC. BM. 2	818.654	818.648	818.647	818.642				818.643	818.646	818.645	818.640	818.626	818.609	818.578	818.544	818.501	818.454	818.414	
TOP BM. 2								817.725	817.786	817.806	817.819	817.828	817.784	817.775	817.715	817.655	817.609	817.538	
DIMENSION "X"								.918	.860	.839	.821	.798	.825	.803	.824	.846	.845	.876	
Q. ROADWAY	818.718	818.712	818.711	818.706				818.706	818.708	818.711	818.706	818.698	818.681	818.657	818.626	818.586	818.543	818.492	
TOP CONC. BM. 3	818.678	818.672	818.671	818.666				818.667	818.670	818.669	818.664	818.650	818.633	818.602	818.568	818.525	818.478	818.427	
TOP BM. 3								817.767	817.795	817.830	817.836	817.826	817.812	817.790	817.725	817.661	817.513		
DIMENSION "X"								.900	.875	.839	.828	.824	.821	.812	.843	.853	.877	.914	
TOP CONC. BM. 4	818.536	818.530	818.529	818.524				818.527	818.528	818.527	818.522	818.508	818.491	818.460	818.426	818.383	818.336	818.285	
TOP BM. 4								817.625	817.674	817.650	817.641	817.649	817.633	817.606	817.582	817.517	817.455	817.340	
DIMENSION "X"								.900	.854	.877	.861	.859	.858	.854	.844	.866	.881	.945	
GUTTER LINERIGHT			818.493	818.488	818.491	818.494	818.490	818.485	818.468	818.448	818.417	818.380	818.336	818.287	818.236				
																	818.235	818.229	

NOTE:

1. TAKE ELEVATIONS ON TOP OF BEAM AT POINTS INDICATED AFTER DIAPHRAGMS ARE IN PLACE AND AFTER FALSEWORK HAS BEEN REMOVED, BUT BEFORE FORMS FOR CONCRETE SLABS HAVE BEEN PUT IN PLACE. READ ELEVATIONS TO THREE DECIMALS USING A TARGET ROD AND ENTER READINGS IN TABLE UNDER BEAM ELEVATIONS.
2. COMPUTE DIMENSION "X" AS FOLLOWS: CONSTRUCTION ELEVATION MINUS BEAM ELEVATION EQUALS DIMENSION "X". CONSTRUCTION ELEVATIONS INCLUDE CAMBER DUE TO WEIGHT OF CONCRETE SLAB, NEW JERSEY BARRIER CURB AND FUTURE SURFACING. MEASURING OF DIMENSION "X" GIVES THE FINAL CHECK ON BEAM TOLERANCES FOR CAMBER, BEAM DAMAGE, AND ERRORS IN ERECTION THAT PRODUCE REVERSE CAMBERS, SAGS, AND UNSIGHTLY FASCIA BEAMS.
3. FOR SETTING TEMPLATES MEASURE DIMENSION "X" ABOVE TOP OF BEAM FOR TOP OF TEMPLATE. DO NOT SET TEMPLATE BY ELEVATIONS.
4. CONSTRUCT NEW JERSEY BARRIER TO GUTTER LINE GRADE. DO NOT ADD CAMBER TO NEW JERSEY BARRIER.

TABLE OF ELEVATIONS FOR
CONTROL OF SLAB THICKNESS

SLAB CHECK POINT	TOP OF SLAB ELEV.	BOT. OF SLAB ELEV.	COMP'D SLAB THICK.
A5	818.551	817.825	0.726
B4	818.711	817.925	0.786
C3	818.599	817.875	0.724
A8	818.521	817.805	0.716
B7	818.681	817.905	0.776
C6	818.571	817.845	0.726
A11	818.428	817.705	0.723
B10	818.586	817.805	0.781
C9	818.476	817.755	0.721

Slab Thickness Control:

After the slab forms are erected and before the slab reinforcement is placed, the resident engineer shall take field elevations of the slab thickness check points and enter them in the table provided. The slab thickness shall then be computed. If the computed slab thickness varies more than 1/4" from the plan thickness, allowing 1/360" of slab span for the deflection of the formwork, the forms shall be adjusted until the computed slab thickness is within the tolerance allowed.

CONSTRUCTION ELEVATIONS

KY. 49 OVER MARTINS CREEK		SHEET 16
COMMONWEALTH OF KENTUCKY		
BUREAU OF HIGHWAYS		
FRANKFORT		
COUNTY OF		
CASEY		
LIBERTY - BRADFORDSVILLE ROAD		
ROAD		
STATION 54+30	P. E. PROJECT NO.	
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20310