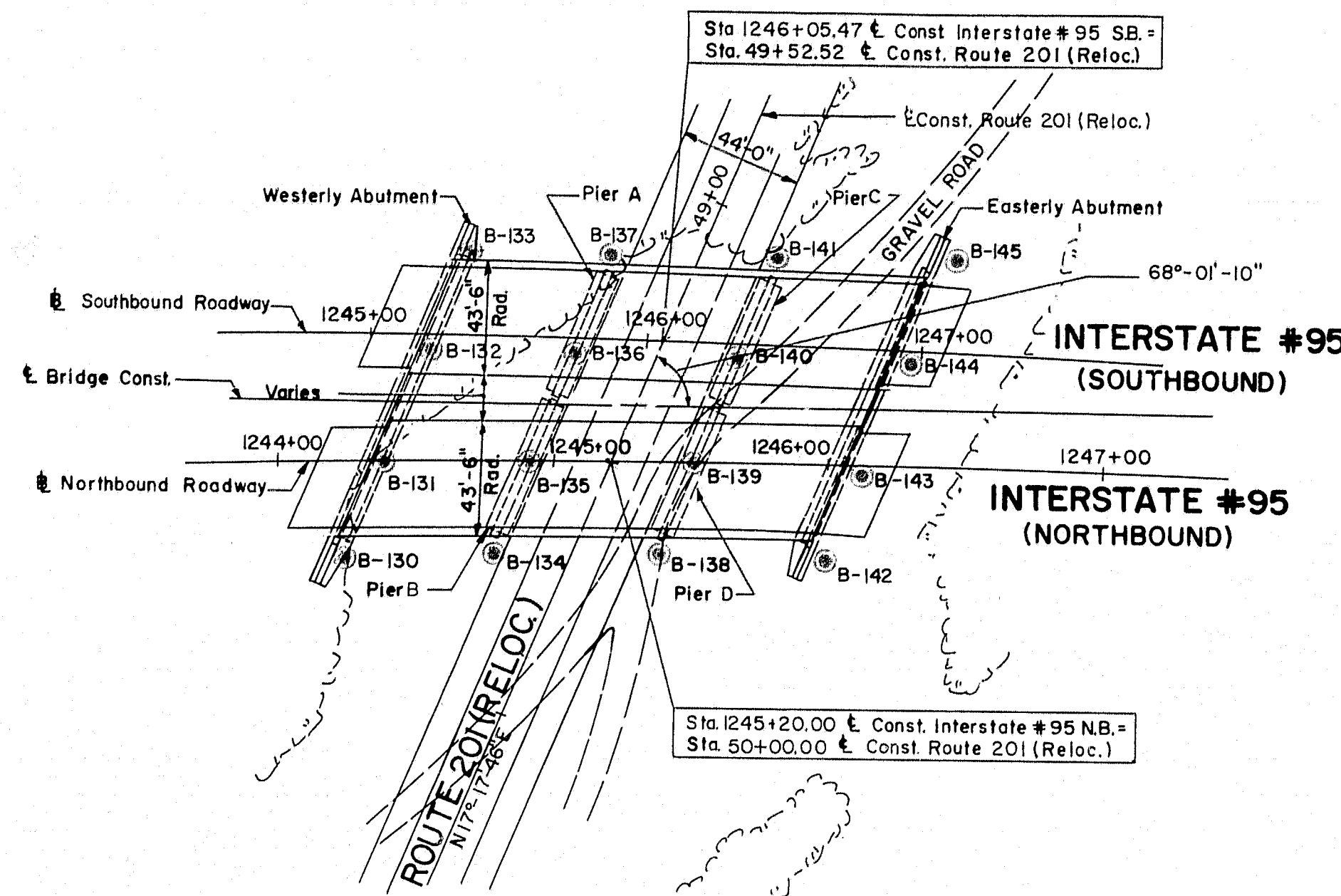


LOCATION MAP
NOT TO SCALE



KEY PLAN
Scale: 1" = 50'

D. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(2)	65	267

FAIRFIELD INTERSTATE

GENERAL NOTES

FOUNDATION:

Foundations may be altered, if necessary, to suit conditions encountered in construction.

DESIGN:

In accordance with the Specifications of the American Association of State Highway Officials for H20-S16-44 loading (1957 Edition) and as modified for military requirements.

Design Stresses: Structural Steel $f_s = 18,000$ psi
Reinforcing Steel $f_s = 18,000$ psi
Concrete (in 10') $f_c = 1,200$ psi

CONSTRUCTION:

State of Maine Standard Specifications to be followed except as noted in Special Provisions.

REINFORCEMENT:

All bars shall have deformations conforming to A.S.T.M. Designation A305. Unless otherwise shown on plans, reinforcing bars shall be lapped 20 diameters to make a splice, except that main reinforcing bars near the top of slabs and beams having more than 12" of concrete under the bars shall be lapped 35 diameters to make a splice.

STRUCTURAL STEEL:

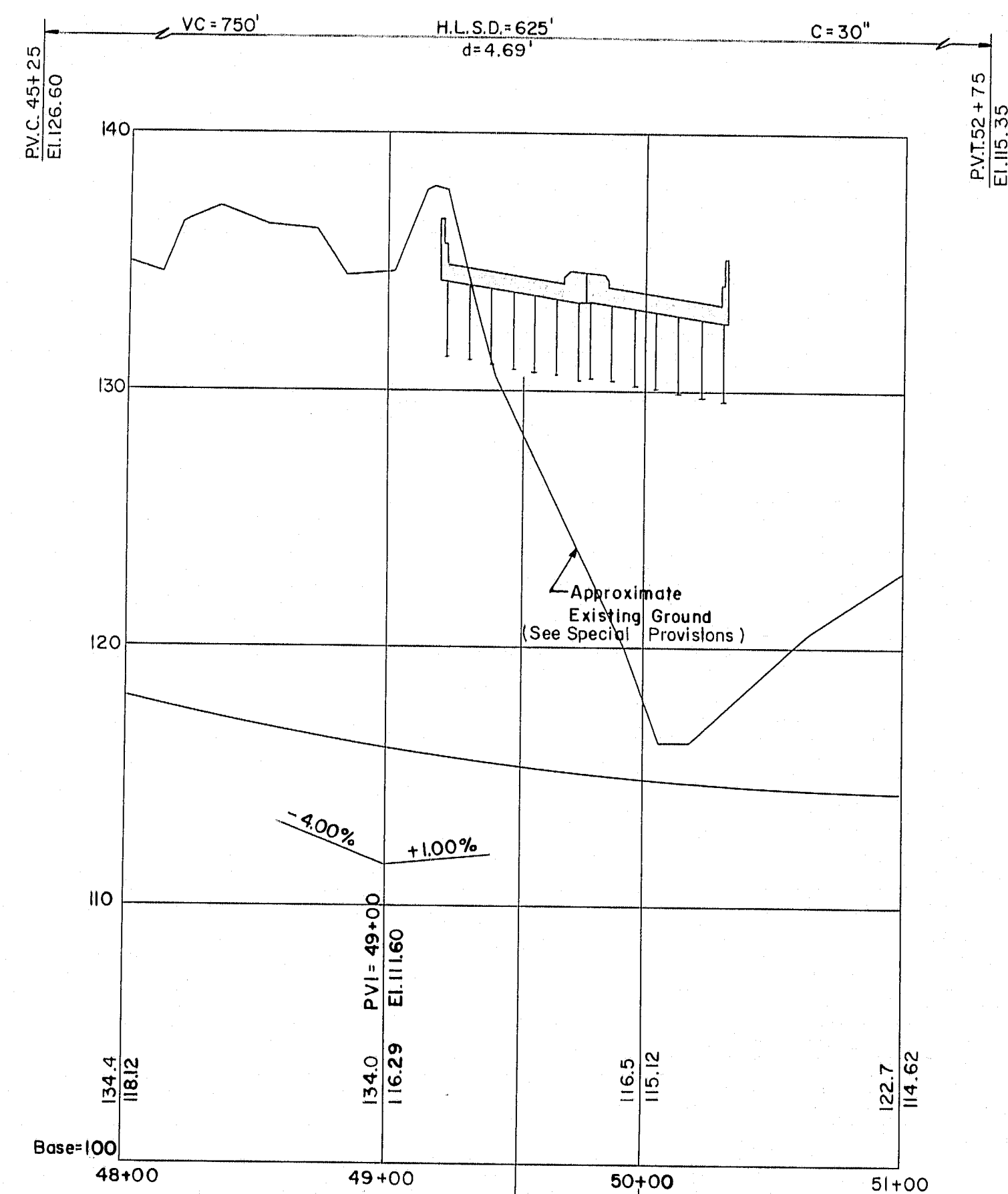
Wherever cover plates and/or shear connectors are welded to beams, beams and plates shall be Weldable Structural Steel A.S.T.M. Designation A373.

BENCH MARK:

BM-81A, Pole #47 (new) Tel. & Power on west side of Route 201 by drive to State Highway Garage.
Elevation 109.76 U.S.G.S. Datum.

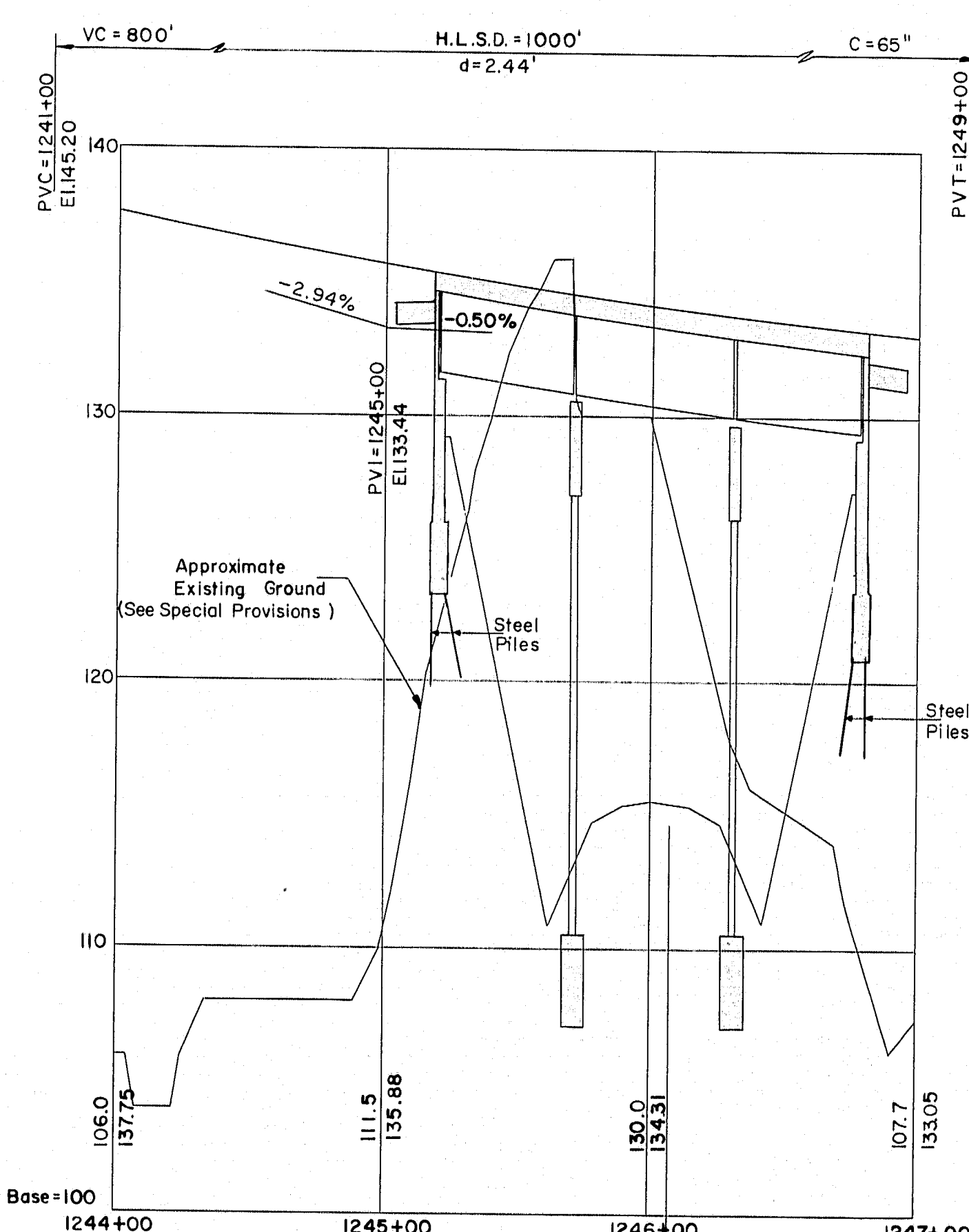
FINAL QUANTITIES

STRUCTURAL EARTH EXCAVATION, ABUTMENTS AND RETAINING WALLS	0	CU. YDS.
STRUCTURAL EARTH EXCAVATION, PIERS	429	CU. YDS.
GRAVEL BASE COURSE - IN PLACE MEASUREMENT	604	CU. YDS.
PORTLAND CEMENT CONCRETE, ABUTMENTS AND RETAINING WALLS	359.6	CU. YDS.
PORTLAND CEMENT CONCRETE, PIERS	392.03	CU. YDS.
PORTLAND CEMENT CONCRETE, ROADWAY & SIDEWALK		
SLABS ON STEEL BRIDGES	687.0	CU. YDS.
PORTLAND CEMENT	2,136	BBLS.
BRIDGE DRAINAGE	1	LUMP SUM.
STRUCTURAL STEEL, FABRICATED & DELIVERED	495,419	LBS.
STRUCTURAL STEEL, ERECTION	495,219	LBS.
REINFORCING STEEL, DELIVERED	235,943	LBS.
REINFORCING STEEL, PLACING	235,943	LBS.
SHEAR CONNECTORS, DELIVERED & PLACED	1	LUMP SUM.
STEEL H-BEAM PILES 42 LBS./FOOT	2,865.7	LIN. FT.
FRENCH DRAINS	146	CU. YDS.
ALUMINUM RAILING	329.6	LIN. FT.
SLOPED GRANITE CURB	333.6	LIN. FT.
SLOPE PAVING FOR BRIDGES	1,211.7	SQ. YDS.



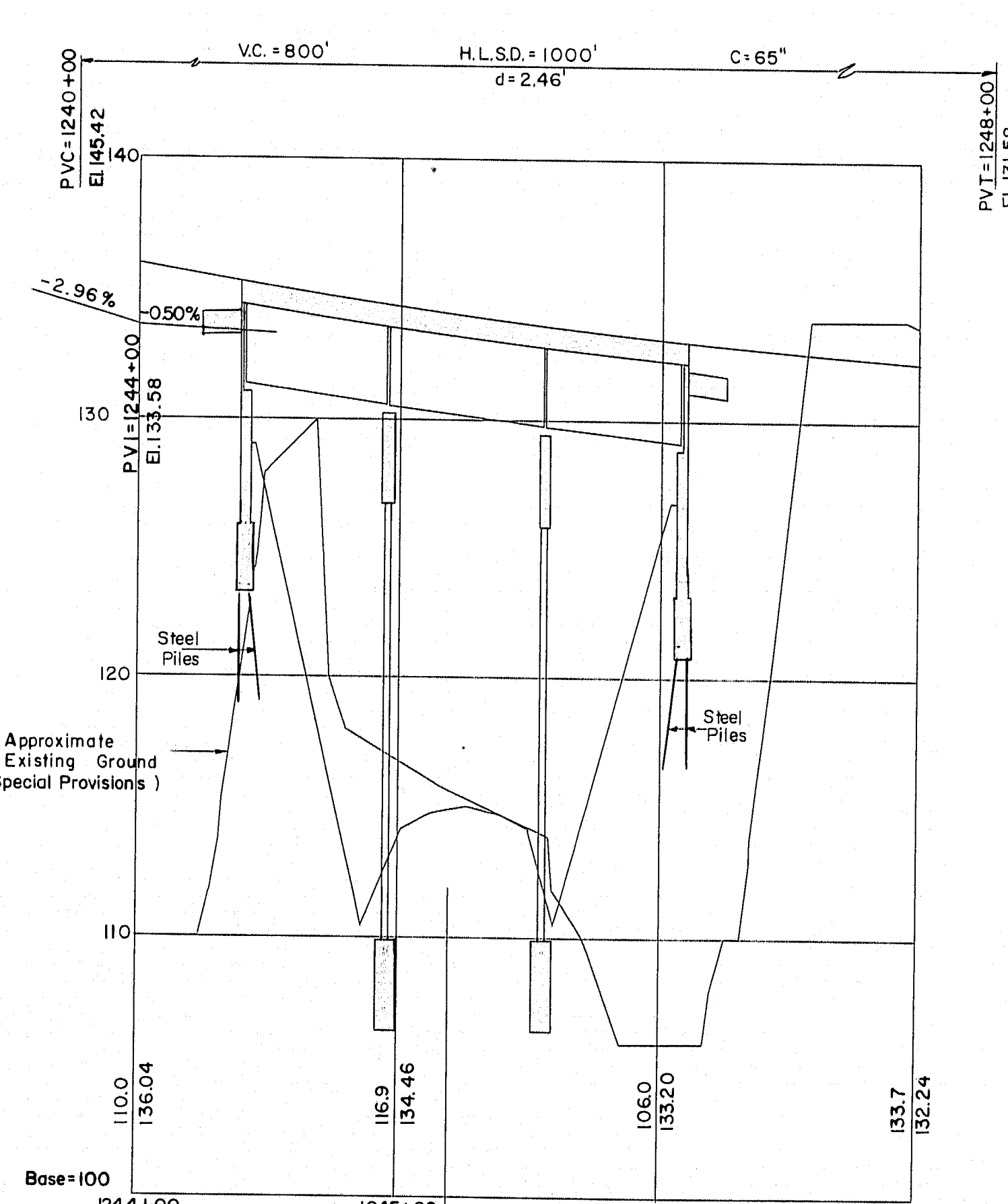
PROFILE ALONG ROUTE 201(RELOC)

Scale: Horz. 1" = 50'
Vert. 1" = 5'



PROFILE ALONG INTERSTATE #95 (SOUTHBOUND LANE)

Scale: Horz. 1" = 50'
Vert. 1" = 5'



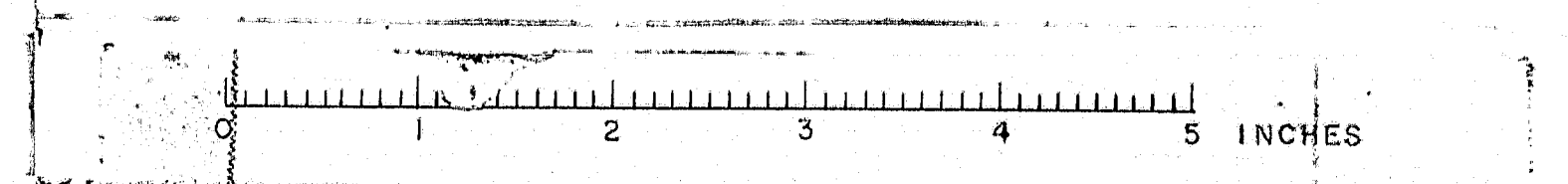
PROFILE ALONG INTERSTATE #95 (NORTHBOUND LANE)

Scale: Horz. 1" = 50'
Vert. 1" = 5'

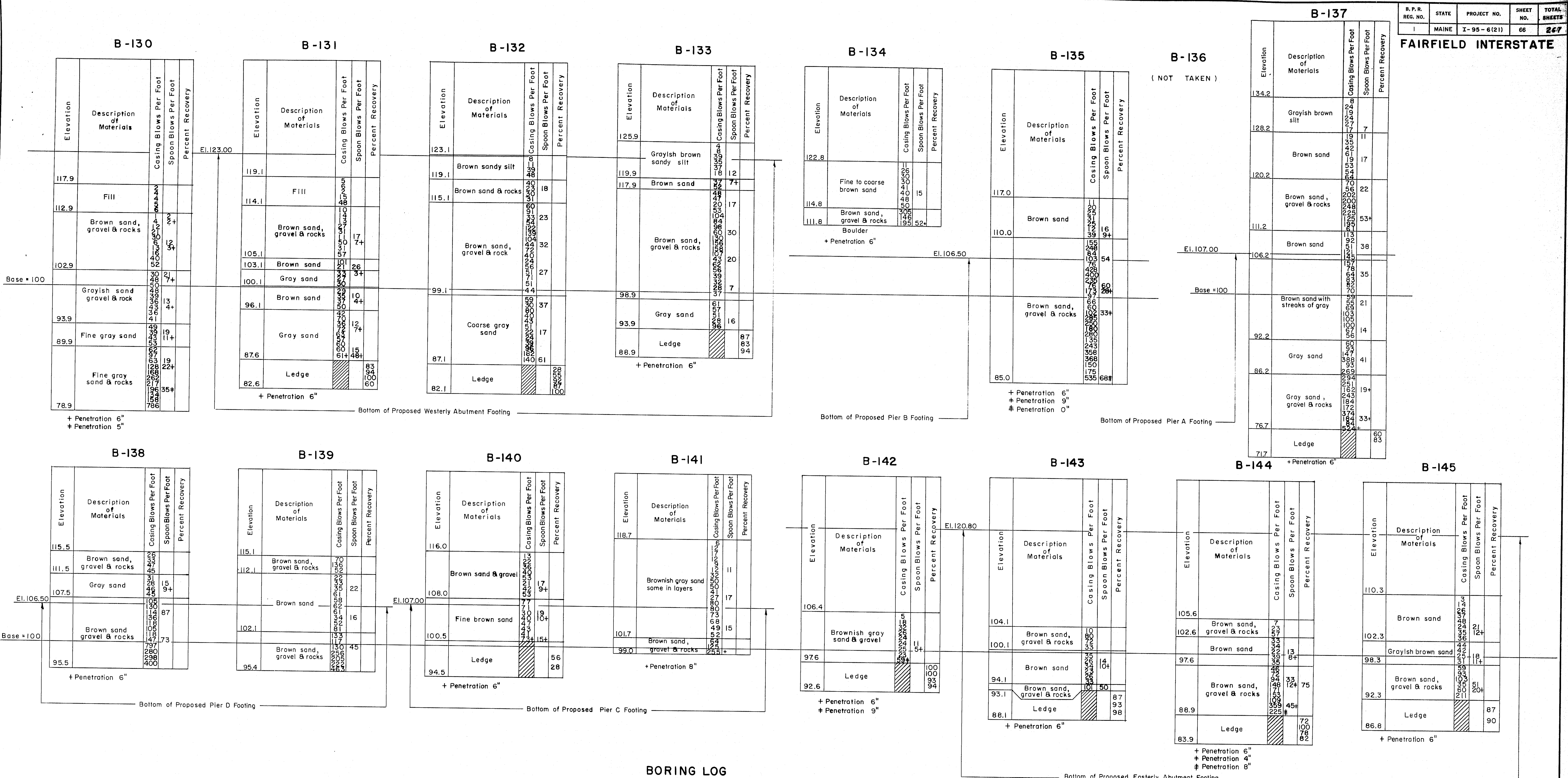
APPROVED BY *Jim A. Henderson* DATE 12-15-58
THE CLARKSON ENGINEERING CO., INC.
BOSTON CONSULTING ENGINEERS MASSACHUSETTS

DESIGN DRAWN A.R.C.	CHECK G.B. APPROVED W.A.H.-C.J.M.	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION		
INTERSTATE #95		
OVER		
ROUTE 201 (RELOCATED)		
IN THE CITY OF		
FAIRFIELD		
SOMERSET COUNTY		
KEY PLAN & PROFILES		
SHEET 1 OF 10 SHEETS		AUGUSTA, MAINE

M-1145



FAIRFIELD INTERSTATE



BORING LOG
Scale: 1/8" = 1'-0"

- Notes:
1. Location of borings are shown on Key Plan thus ● B-130.
 2. Borings are taken for purpose of design and show condition at boring points only, but do not necessarily show nature of materials to be encountered during construction.
 3. Figures in boring columns indicate blows per foot on 2 1/2" casing or 1 7/8" spoon produced by a 310# hammer with a fall of 16" and 14" respectively.
 4. Borings were taken by the Maine State Highway Commission during the months of July, August & September 1958.
 5. The Contractor is to form his own opinion of the character of the material, and to make his own interpretation of the borings.
 6. The Engineer does not warrant the findings as being accurate or complete.

THE CLARKSON ENGINEERING CO., INC.

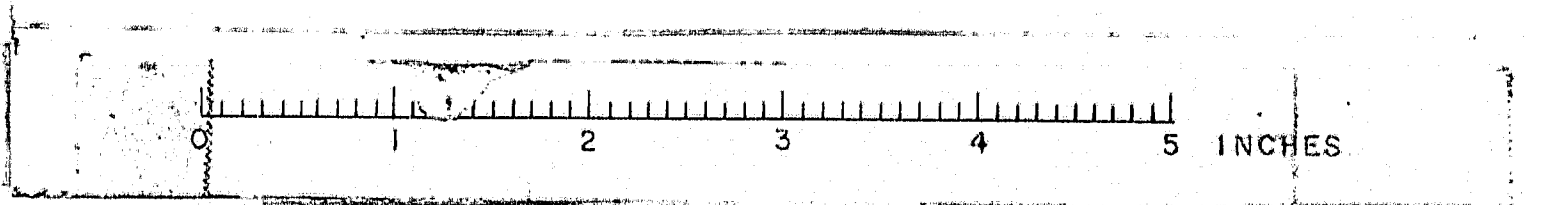
DESIGN	CHECK G.B.	BRIDGE NO.
DRAWN J.M.T.	APPROVED W.A.H.-C.J.M.	SURVEY P.O.T.

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
ROUTE 201 (RELOCATED)
IN THE CITY OF
FAIRFIELD
SOMERSET COUNTY
BORING DATA

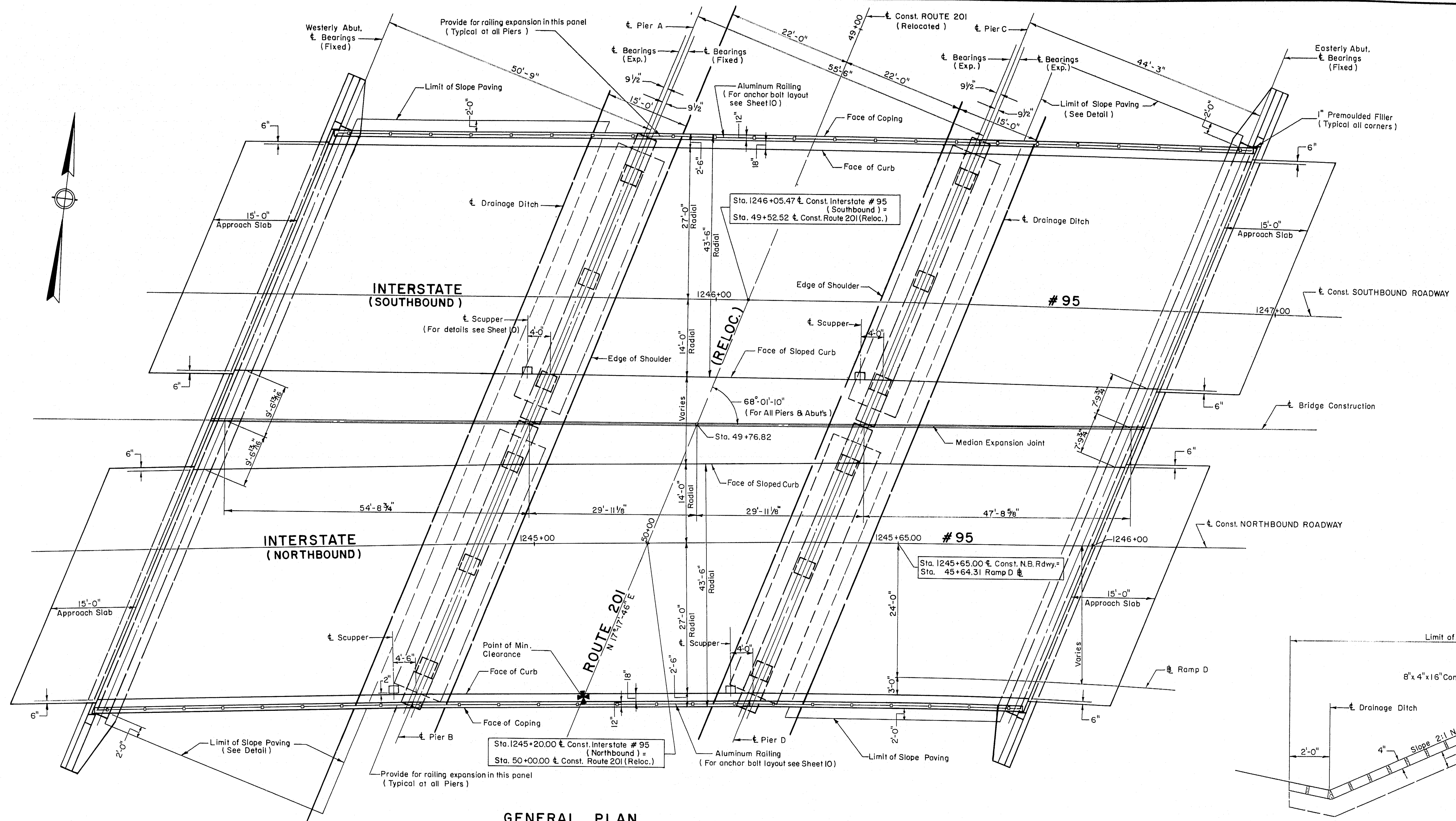
SHEET 2 OF 10 SHEETS AUGUSTA, MAINE

M-1146

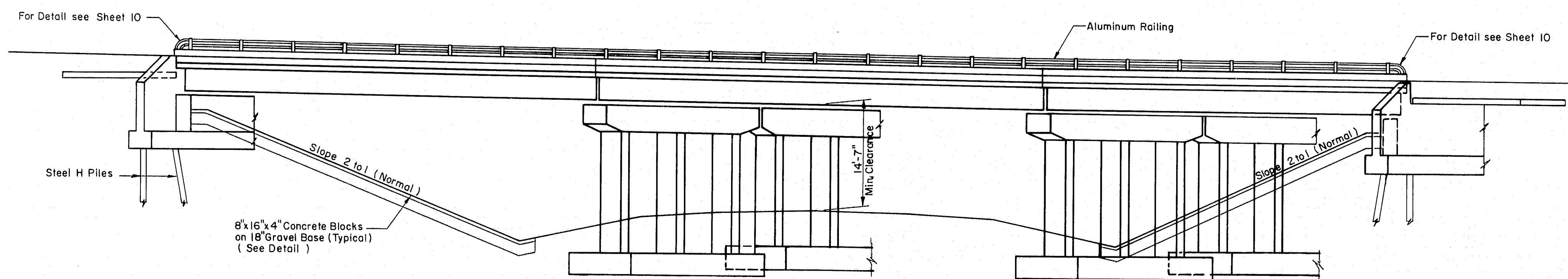


D.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(21)	67	267

FAIRFIELD INTERSTATE



GENERAL PLAN
Scale: 1" = 10'-0"



GENERAL ELEVATION
Scale: 1" = 10'-0"

Construction Southbound Roadway Curve Data:

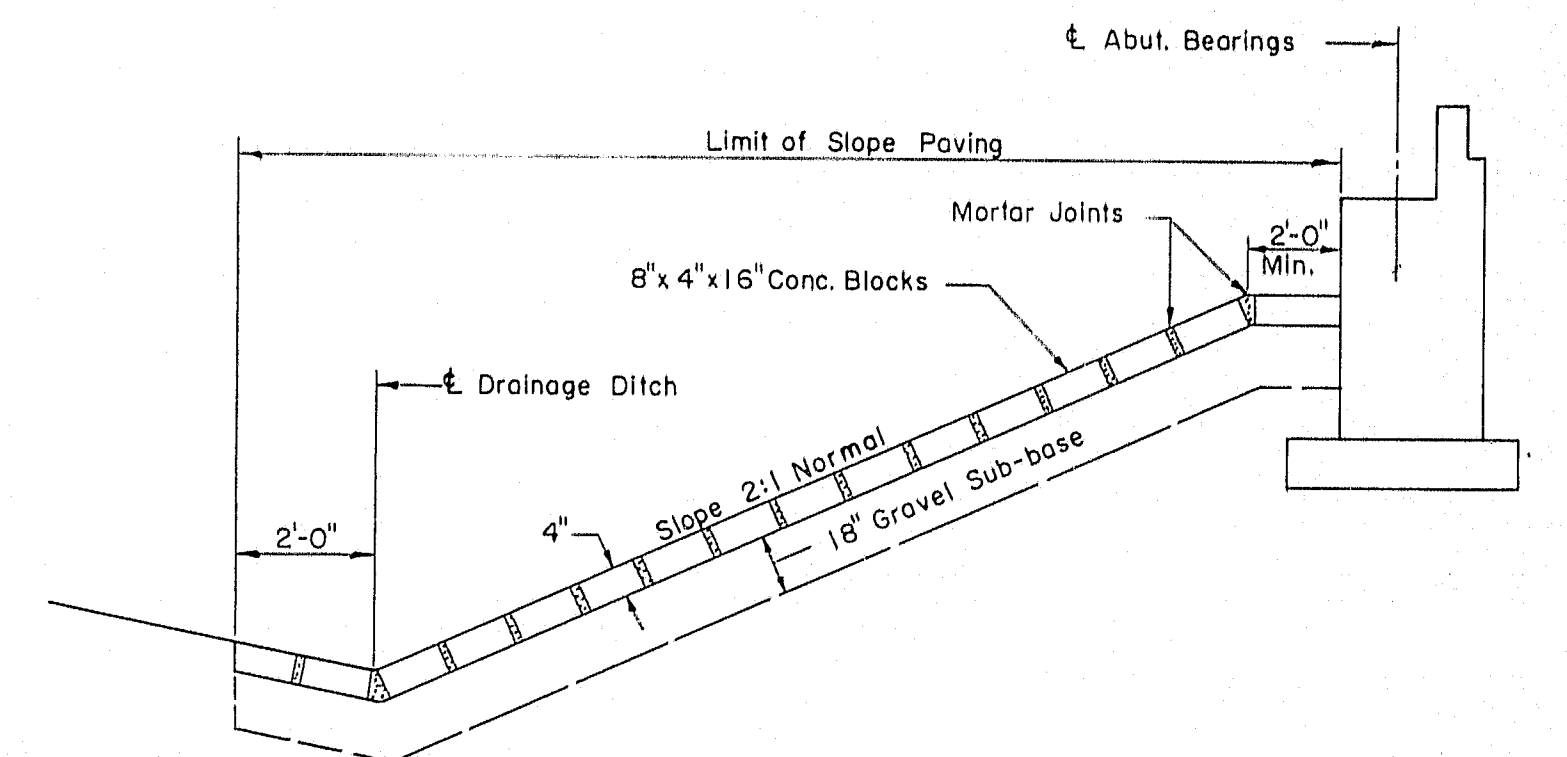
$\Delta = 59^{\circ}-59'-30''$
 $D = 1^{\circ}-00'-00''$
 $L = 5999.167'$
 $T = 3307.417'$
 $R = 5729.578'$

Construction Northbound Roadway Curve Data:

$\Delta = 60^{\circ}-59'-03''$
 $D = 1^{\circ}-00'-00''$
 $L = 6098.417'$
 $T = 3373.913'$
 $R = 5729.578'$

Ramp D Curve Data

$\Delta = 10^{\circ}-41'-43''$
 $T = 70.20'$
 $L = 140.00'$
 $R = 750.00'$



SLOPE PAVING DETAIL
No Scale

THE CLARKSON ENGINEERING CO., INC.

DESIGN	H. L.	CHECK	G. B.	BRIDGE NO.
DRAWN	E. K.	APPROVED	W. A. H. - C. J. M.	SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95 OVER **ROUTE 201 (RELOCATED)**

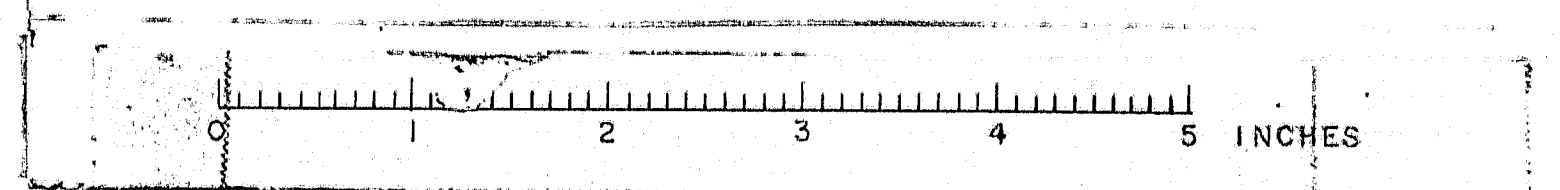
IN THE CITY OF

FAIRFIELD
SOMERSET COUNTY
GENERAL PLAN & ELEVATION

SHEET 3 OF 10 SHEETS

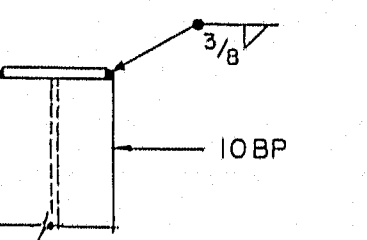
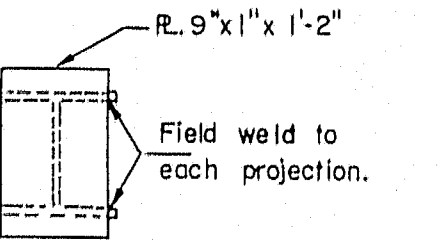
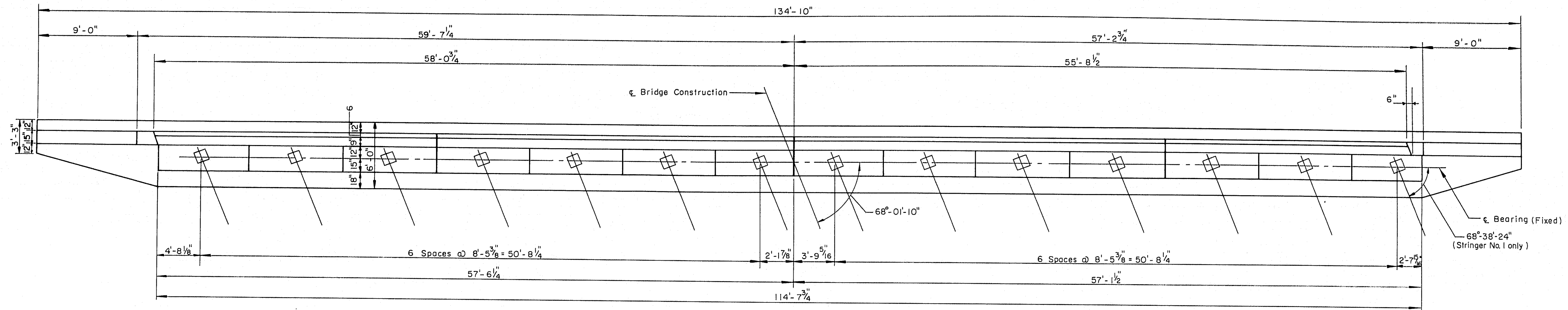
AUGUSTA, MAINE

M-1147

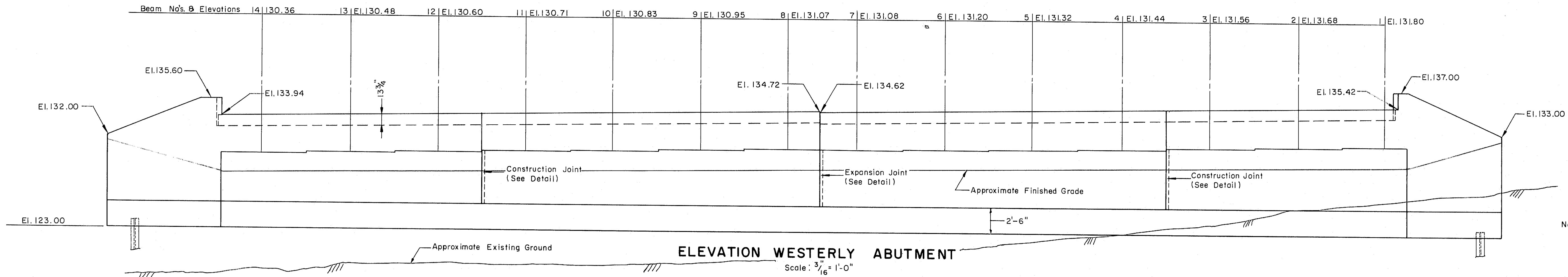


D.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6(21)	68	267

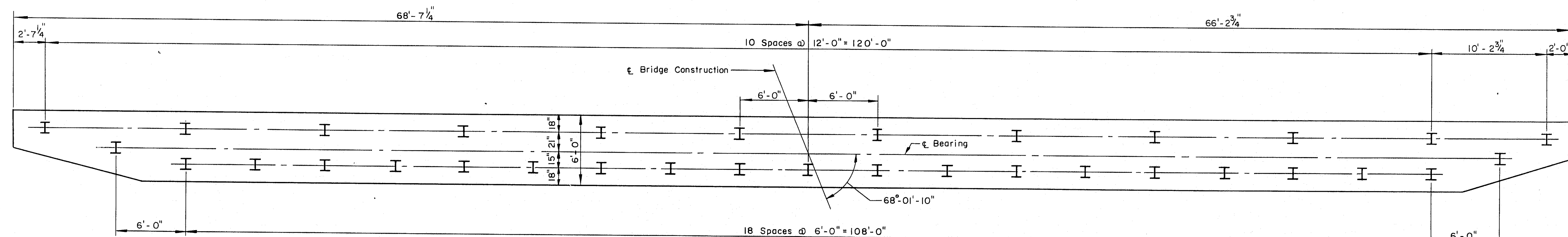
FAIRFIELD INTERSTATE



PILE CAP DETAILS
Scale: $\frac{3}{4}'' = 1'-0''$

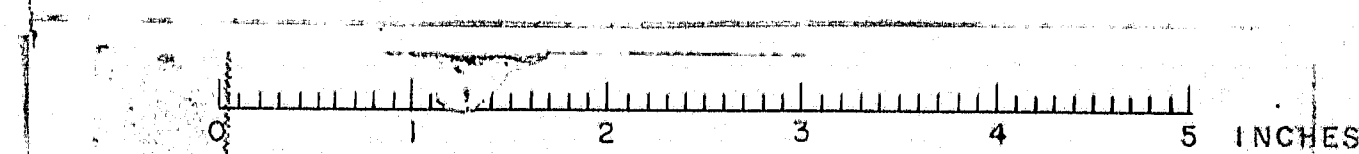


- Notes: (For both abutments)
1. For sections and details see Sheet 5.
 2. Embankment under abutment to be constructed to elevation of bottom of footing before piles are driven.
 3. All piles to be driven to bedrock or practical refusal.
 4. All piles to be 10" BP42.
 5. Maximum pile load 33 Tons.
 6. All front piles to be battered 3" on 12".
 7. Cap all piles (see detail).



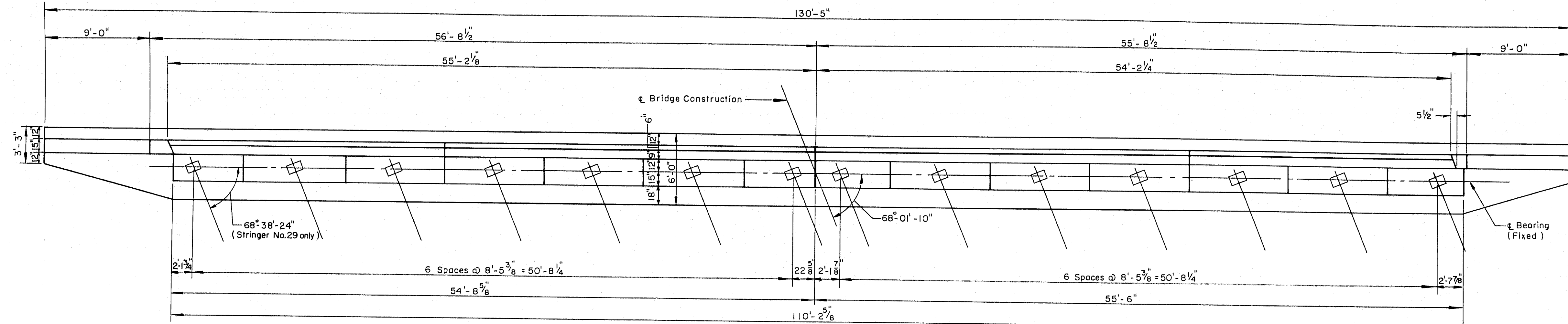
THE CLARKESON ENGINEERING CO., INC.			
DESIGN H.L.	CHECK G.B.	BRIDGE NO.	SURVEY
DRAWN V.S.	APPROVED W.A.H.-C.J.M.	PLOT	
STATE HIGHWAY COMMISSION			
INTERSTATE #95			
OVER			
ROUTE 201 (RELOCATED)			
IN THE CITY OF			
FAIRFIELD			
SOMERSET COUNTY			
WESTERLY ABUTMENT			
SHEET 4 OF 10 SHEETS		AUGUSTA, MAINE	

M-1148

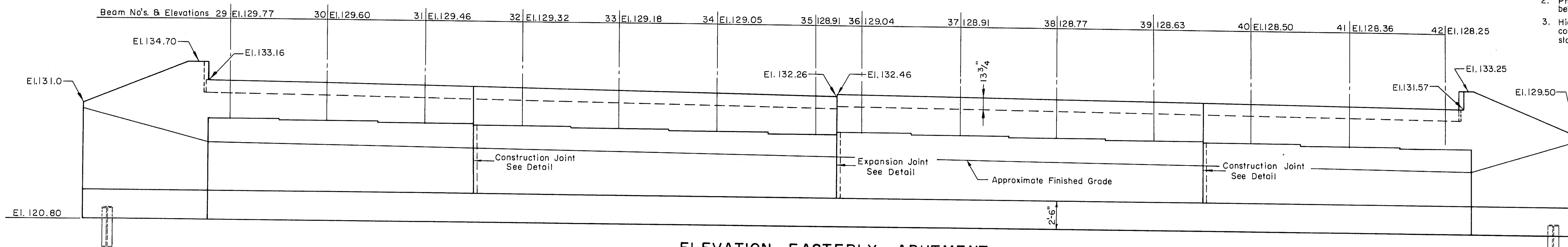


B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I - 95 - 6(21)	69	267

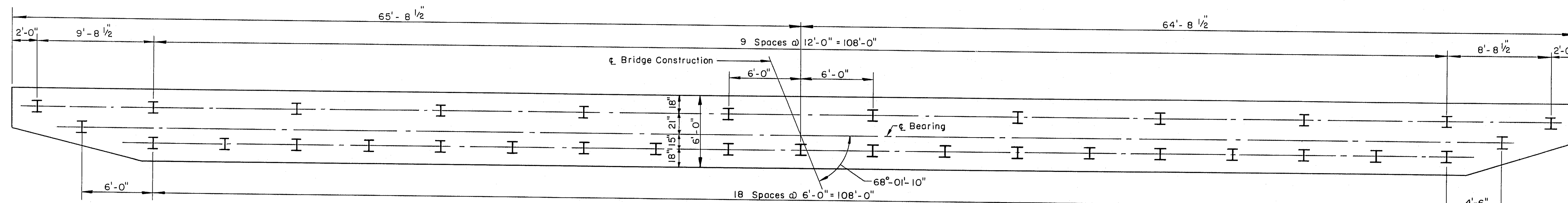
FAIRFIELD INTERSTATE



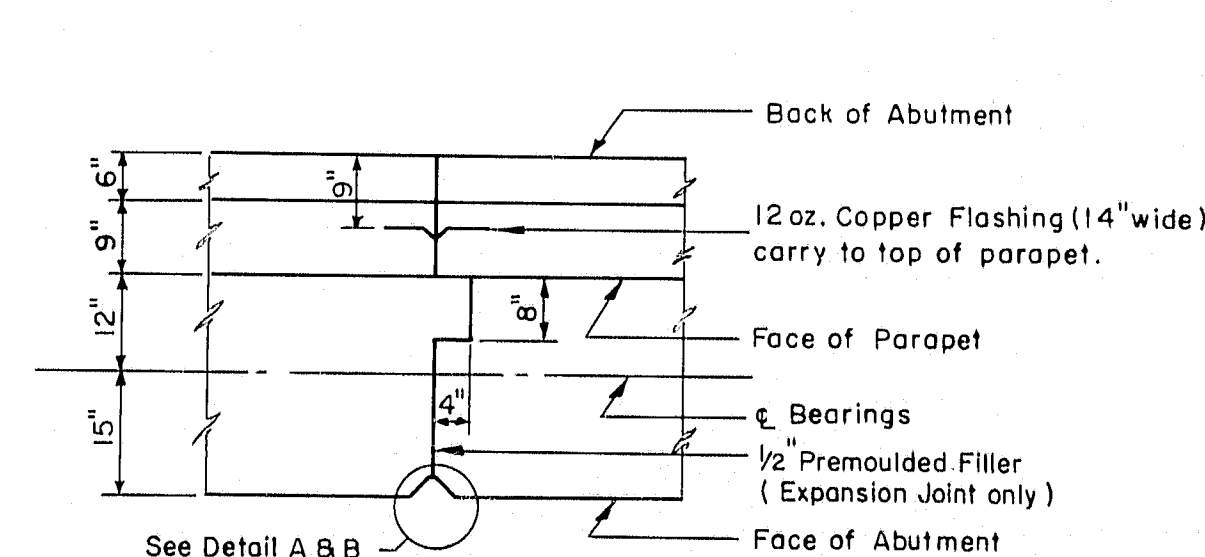
PLAN EASTERLY ABUTMENT
Scale: $\frac{3}{16} = 1'-0''$



ELEVATION EASTERLY ABUTMENT
Scale: $\frac{3}{16} = 1'-0''$

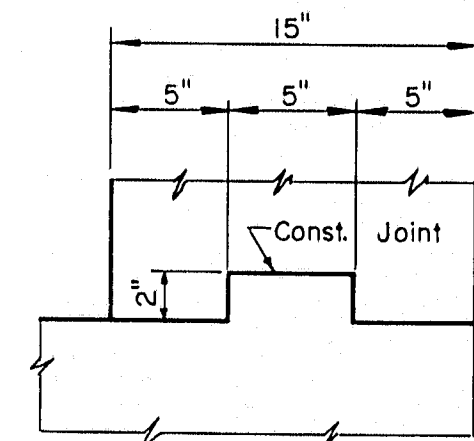


PILE PLAN EASTERLY ABUTMENT
Scale: $\frac{3}{16} = 1'-0''$



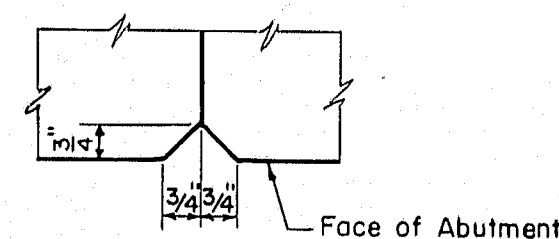
ABUTMENT CONST. AND EXPANSION JOINT
Scale: $\frac{1}{2} = 1'-0''$

Note: Reinforcement to run through construction joint only.

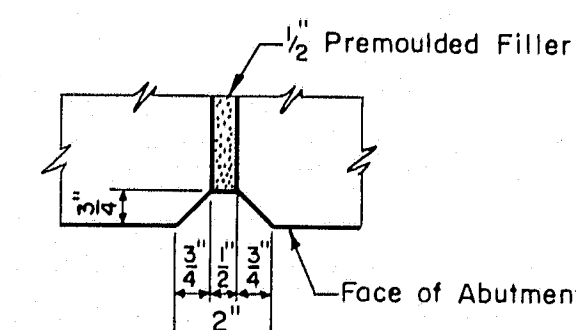


DETAIL C
Scale: $\frac{1}{2} = 1'-0''$

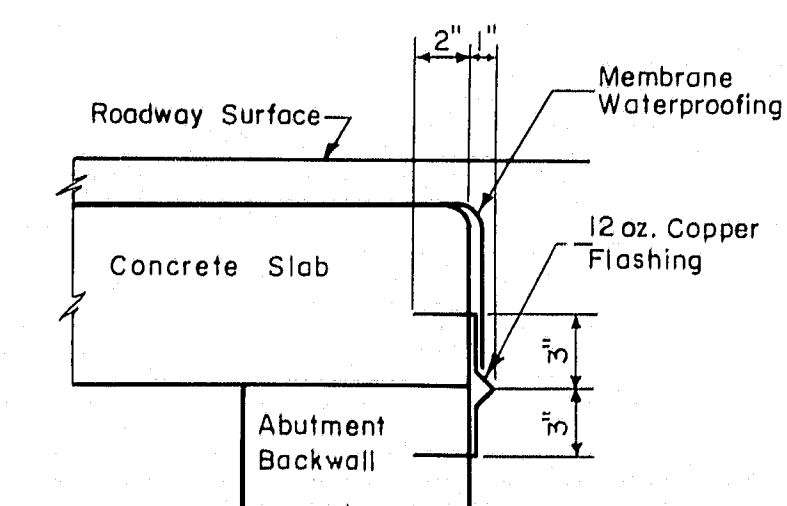
Note: Concrete in backwall not to be placed until Structural Steel has been erected. Construction Joint to be at or above Bridge Seat Elev.



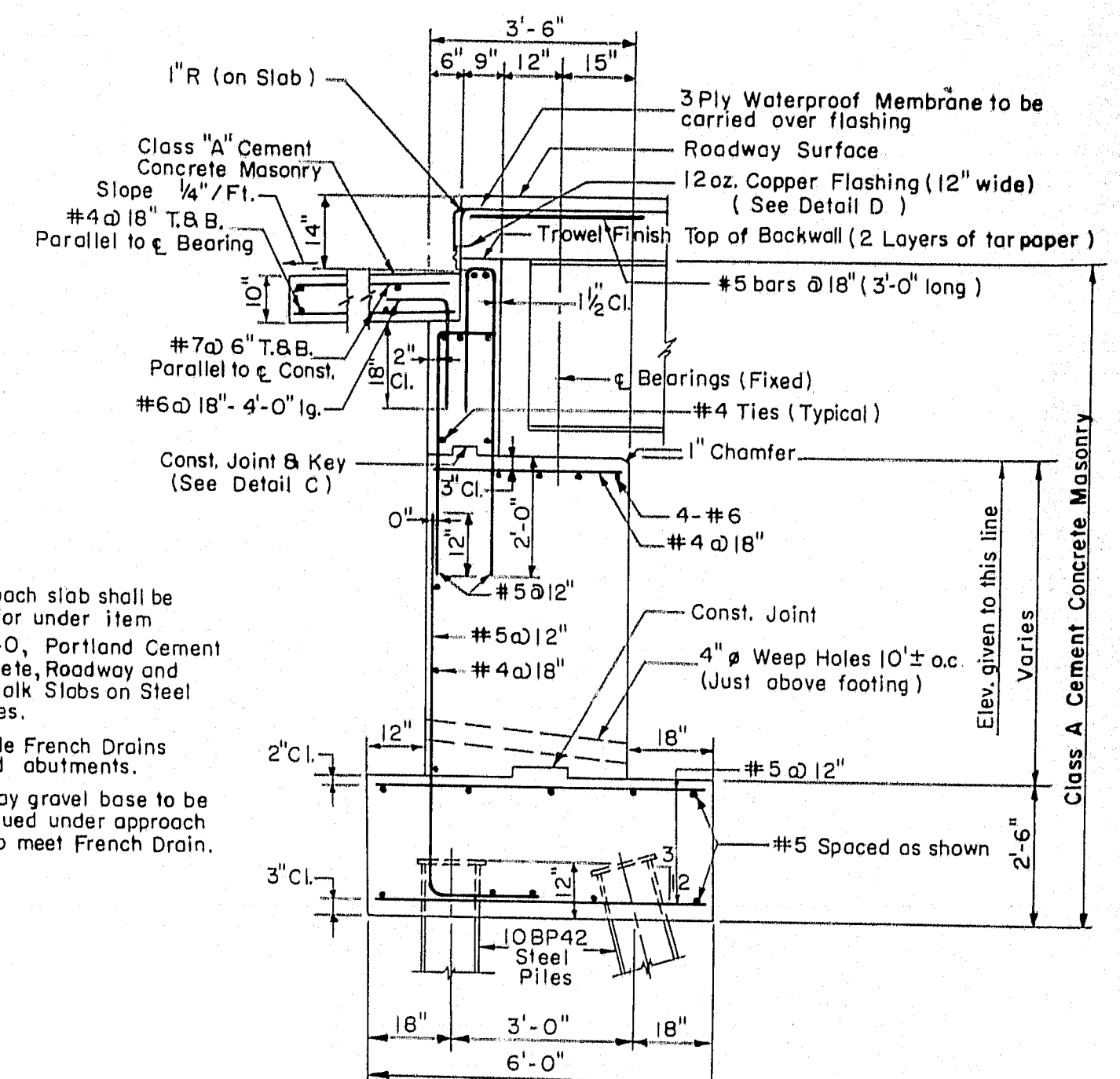
DETAIL A
(CONSTRUCTION JOINT)
Scale: $3 = 1'-0''$



DETAIL B
(EXPANSION JOINT)
Scale: $3 = 1'-0''$

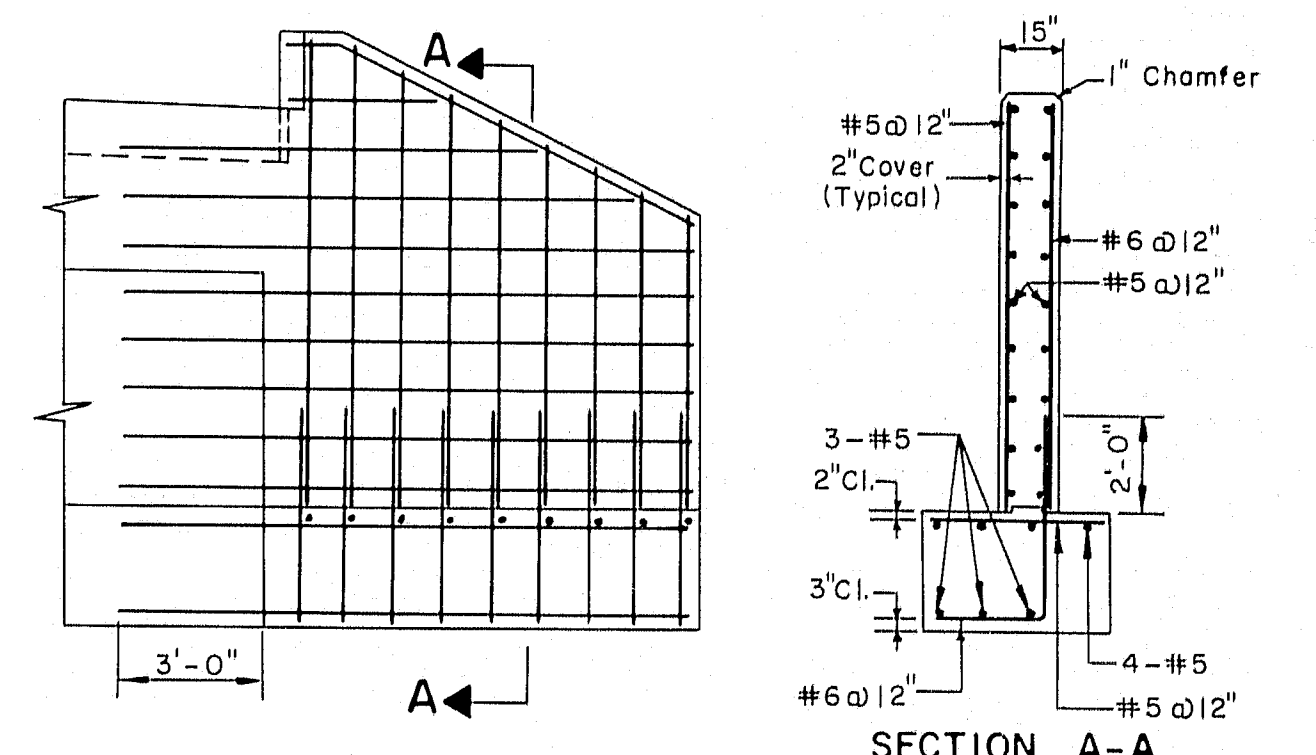


DETAIL D
Scale: $\frac{1}{2} = 1'-0''$



TYPICAL ABUTMENT SECTION
Scale: $\frac{3}{8} = 1'-0''$

Note: 1. For general notes see Sheet 4.
2. 3-Ply Membrane Waterproofing and Bituminous Concrete Surfacing are not in this contract.



WING REINFORCING LAYOUT
Scale: $\frac{1}{4} = 1'-0''$

THE CLARKSON ENGINEERING CO., INC.

DESIGN D.S.-H.L.	CHECK G.B.	BRIDGE NO. SURVEY
DRAWN V.S.	APPROVED W.A.H.-C.J.M.	PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER

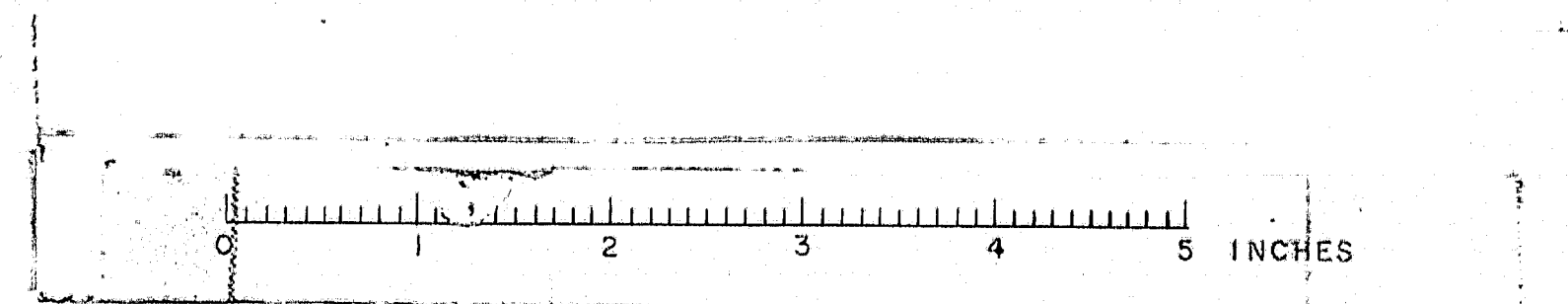
ROUTE 201 (RELOCATED)
IN THE CITY OF

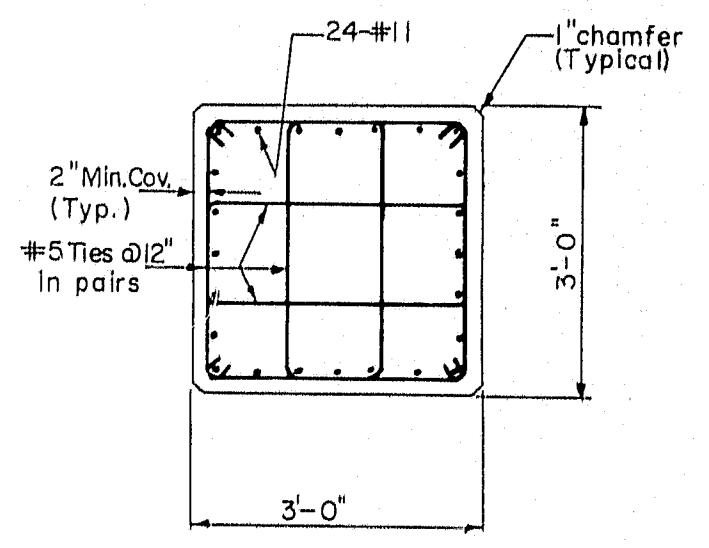
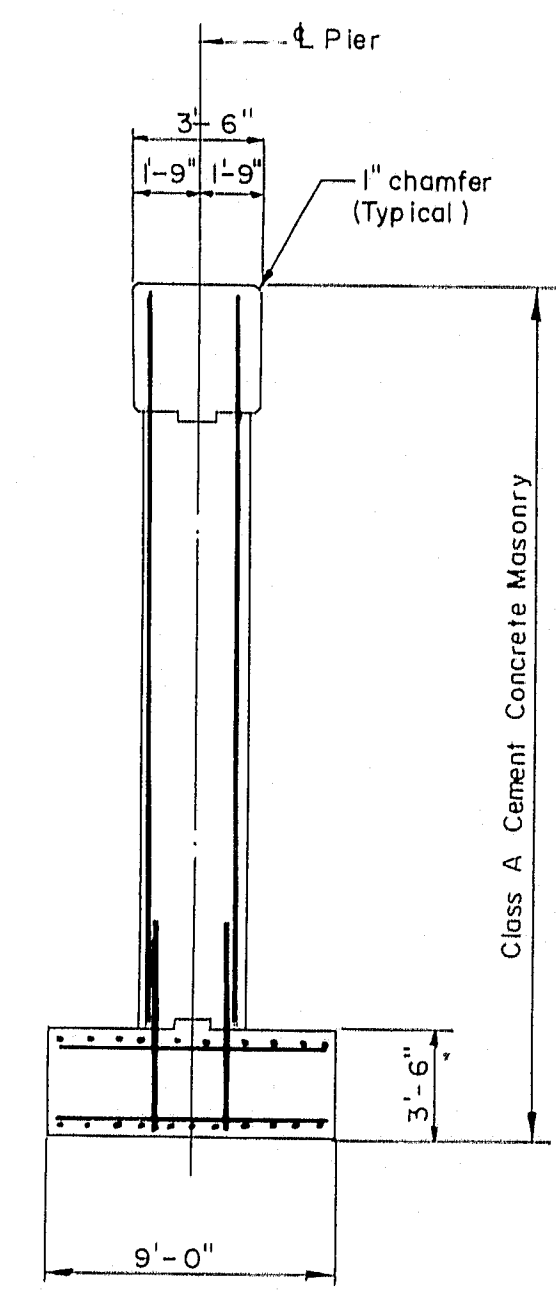
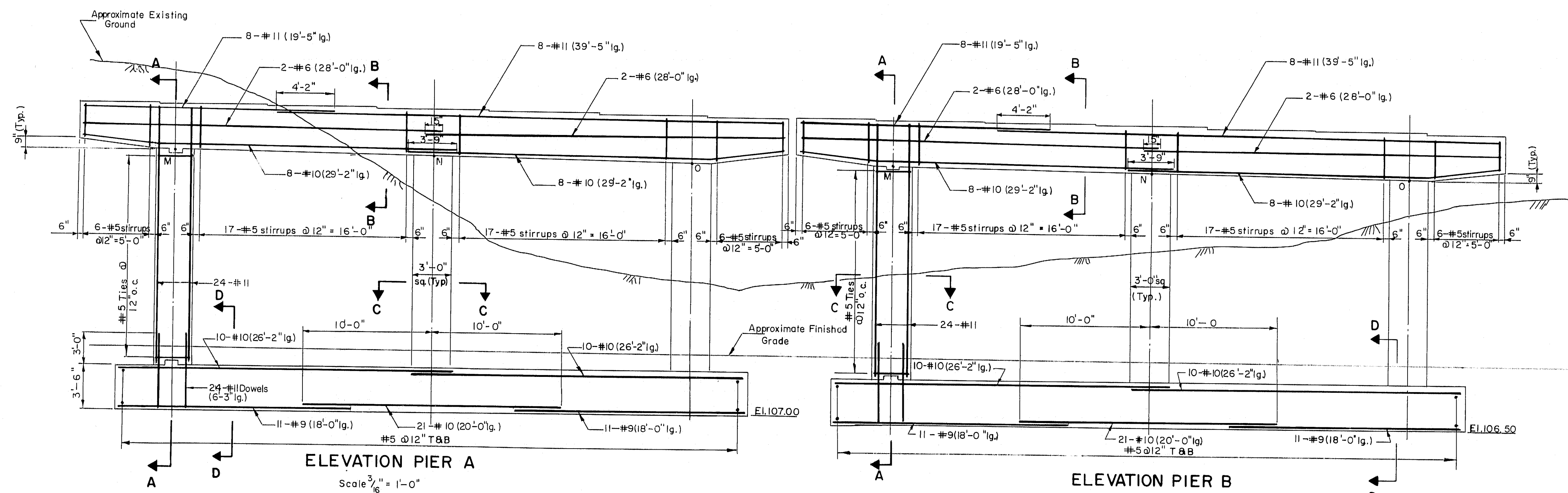
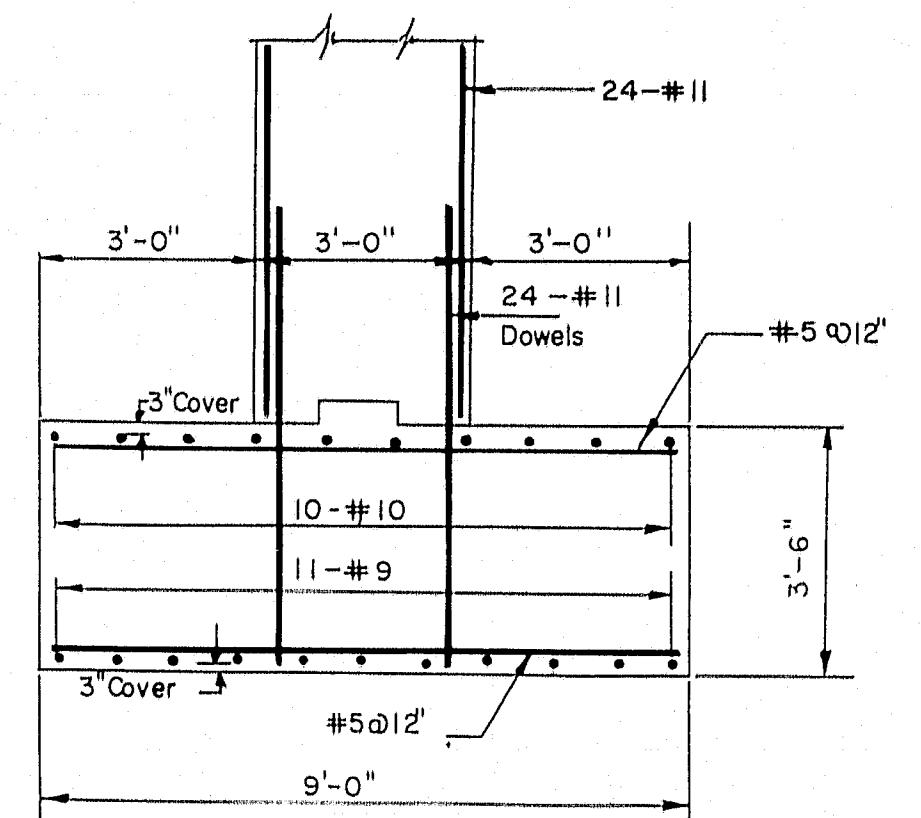
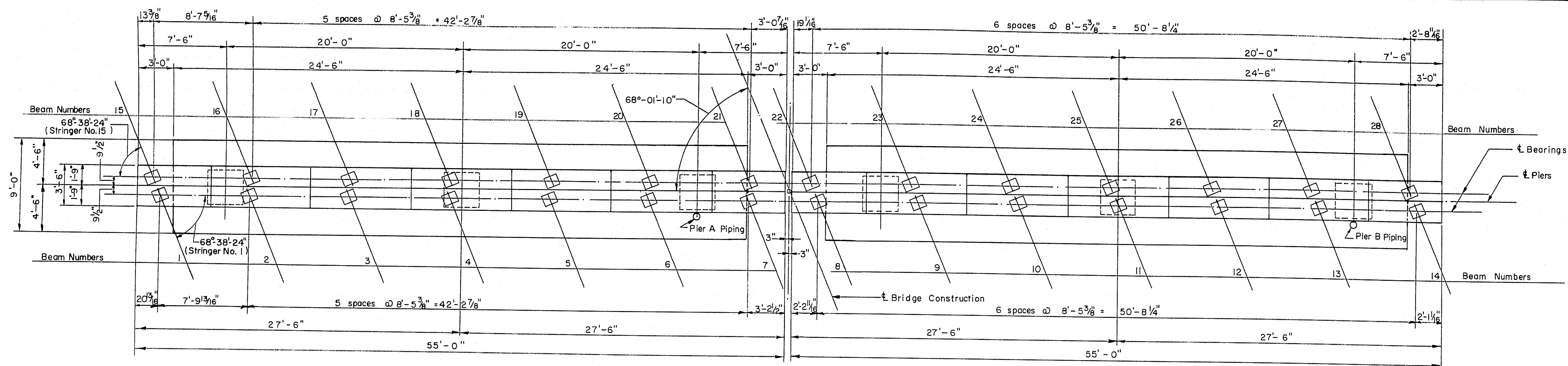
FAIRFIELD
SOMERSET COUNTY

EASTERLY ABUTMENT

SHEET 5 OF 10 SHEETS AUGUSTA, MAINE

M-1149

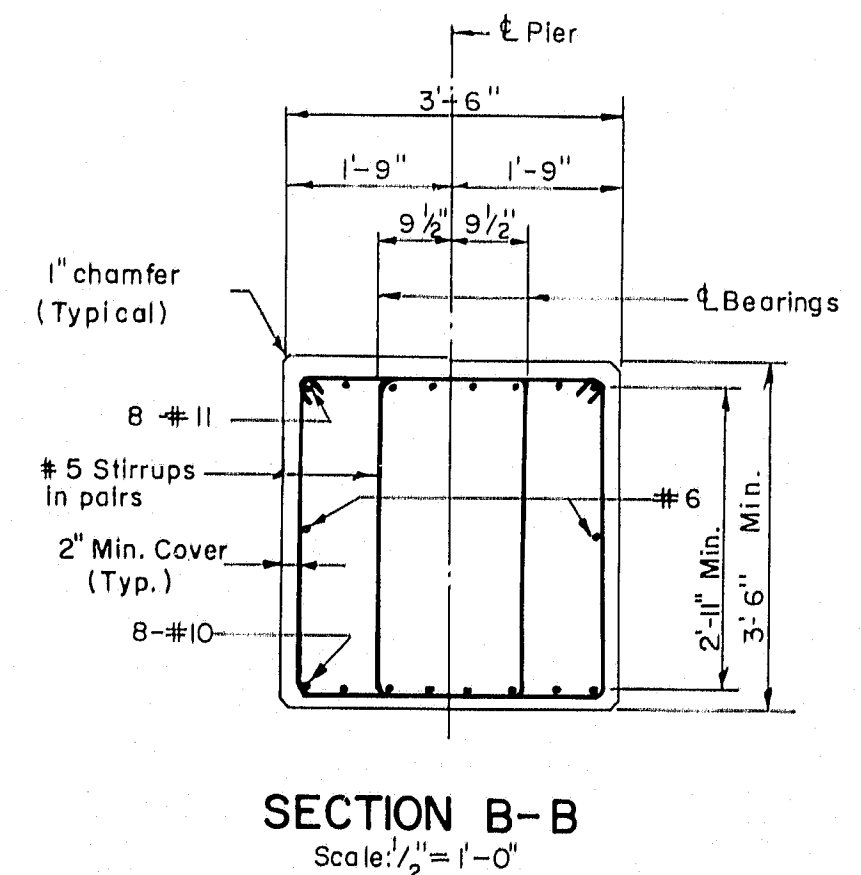




Maximum bearing pressure 4400#/sq.ft.

Elevation at Top of Pier Columns			
Col.	M	N	O
Pier A	127.25	126.90	126.55
B	126.55	126.25	125.95
C	126.46	126.13	125.80
D	125.76	125.43	125.10

SCHEDULE OF BEAM SEAT ELEVATIONS					
Beam No.	Pier A	Beam No.	Pier C	Beam No.	
1	130.97	15	130.13	130.33	29
2	130.85	16	129.99	130.17	30
3	130.72	17	129.86	130.03	31
4	130.60	18	129.73	129.90	32
5	130.47	19	129.59	129.76	33
6	130.34	20	129.46	129.63	34
7	130.21	21	129.33	129.50	35
Pier B		Pier D			
8	130.26	22	129.42	129.59	36
9	130.13	23	129.29	129.46	37
10	130.00	24	129.16	129.33	38
11	129.88	25	129.03	129.20	39
12	129.75	26	128.89	129.06	40
13	129.62	27	128.76	128.93	41
14	129.49	28	128.63	128.83	42



Note: Reinforcing Steel to be placed to clear anchor bolts.

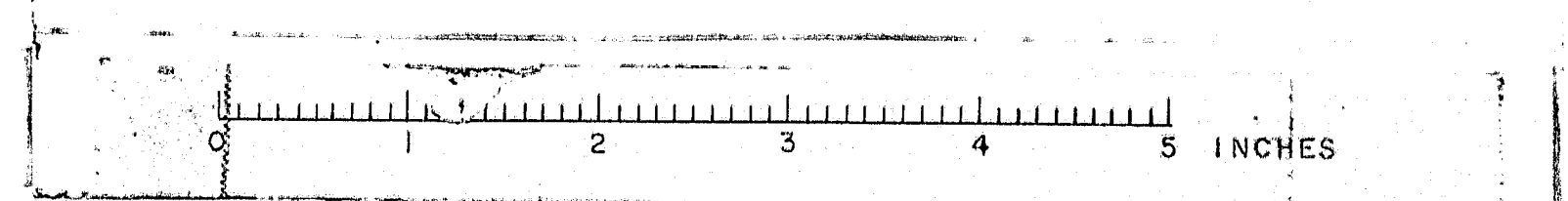
THE CLARKSON ENGINEERING CO., INC.

DESIGN D.S.-H.L.	CHECK G.B.	BRIDGE NO.
DRAWN D.A.T.	APPROVED W.A.H.-C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION
INTERSTATE #95
OVER
ROUTE 201 (RELOCATED)

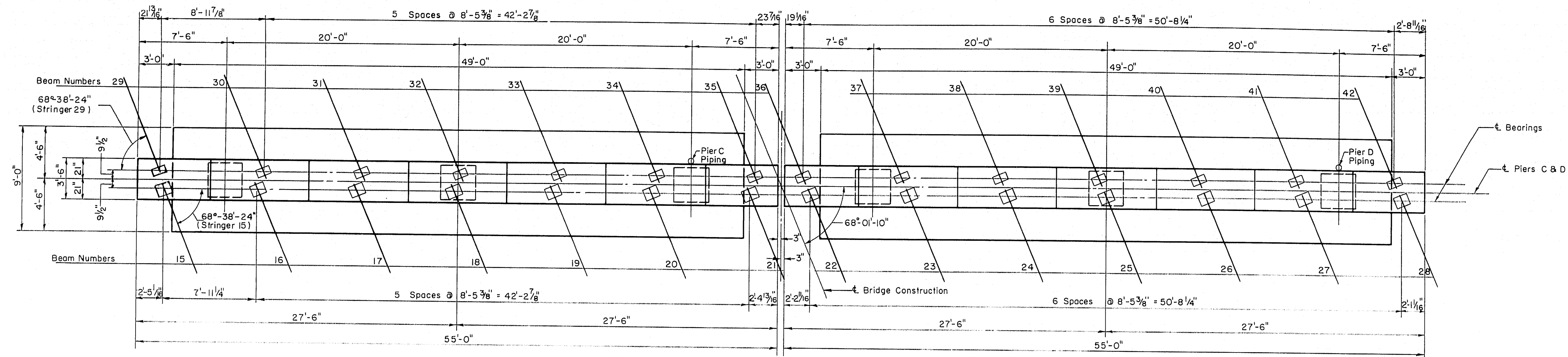
IN THE CITY OF
FAIRFIELD
SOMERSET COUNTY
PIERS A & B

M-1150



B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(21)	71	267

FAIRFIELD INTERSTATE

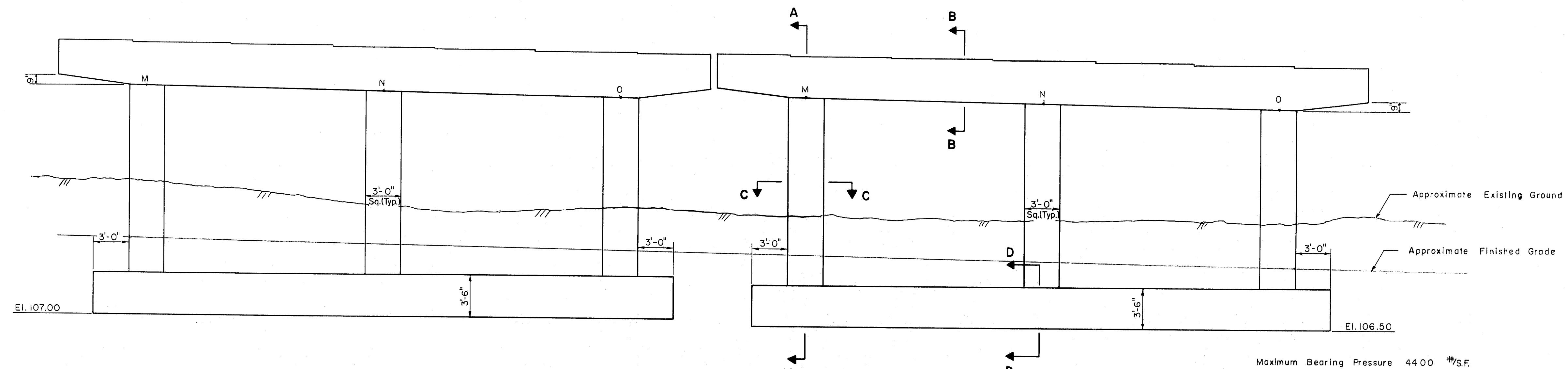


PLAN PIER C

Scale: $\frac{3}{16}'' = 1'-0''$

PLAN PIER D

Scale: $\frac{3}{16}'' = 1'-0''$



ELEVATION PIER C

Scale: $\frac{3}{16}'' = 1'-0''$

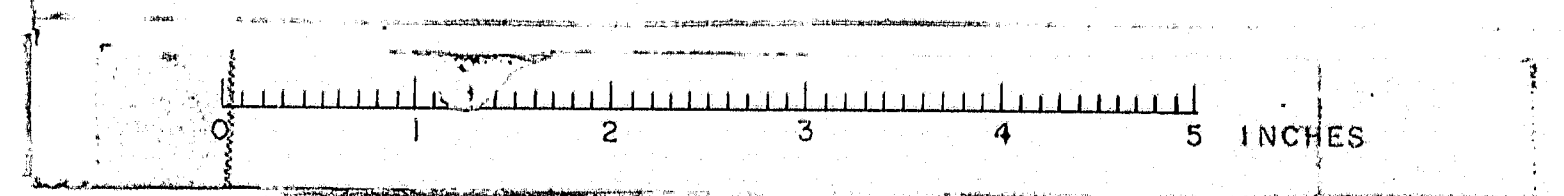
ELEVATION PIER D

Scale: $\frac{3}{16}'' = 1'-0''$

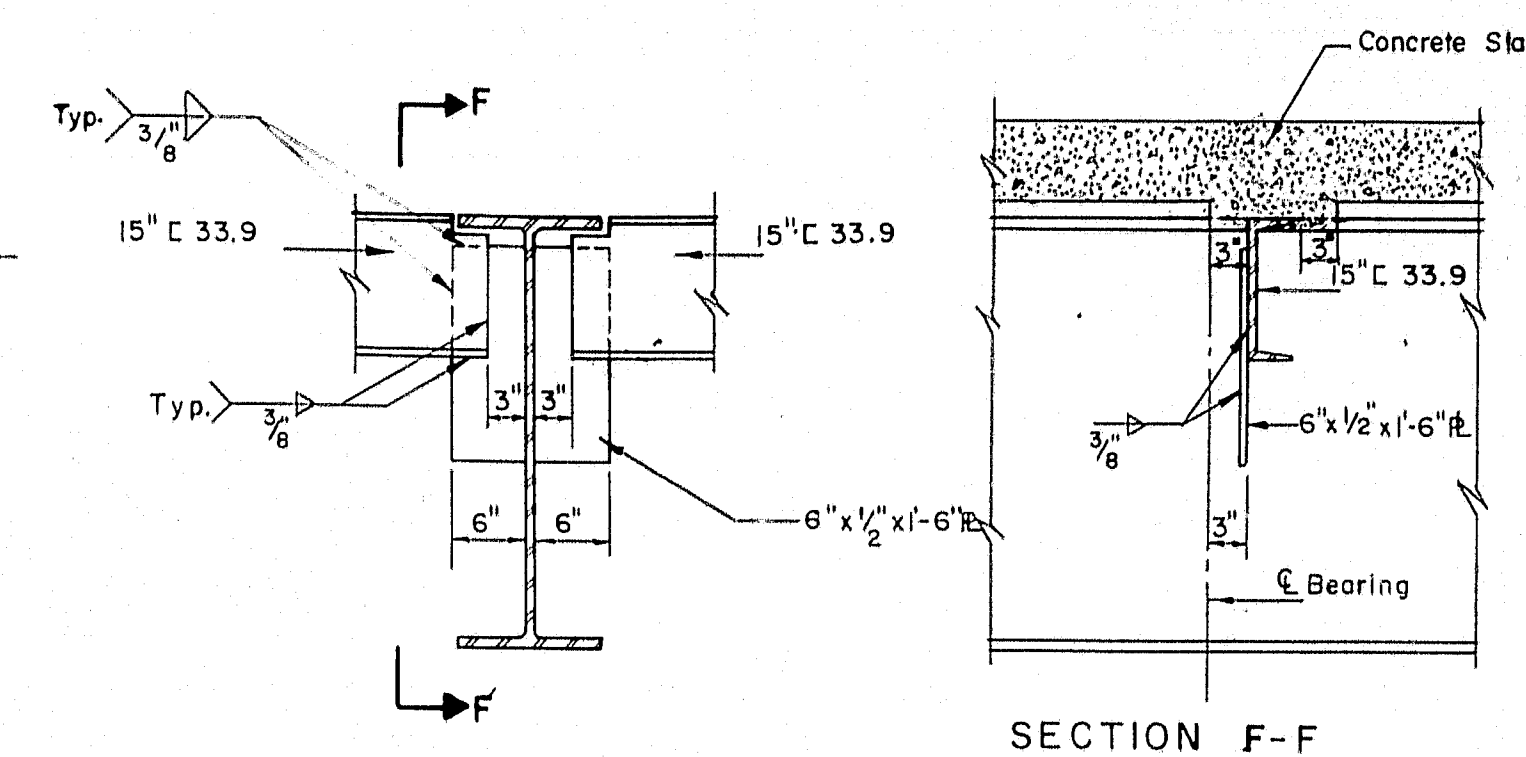
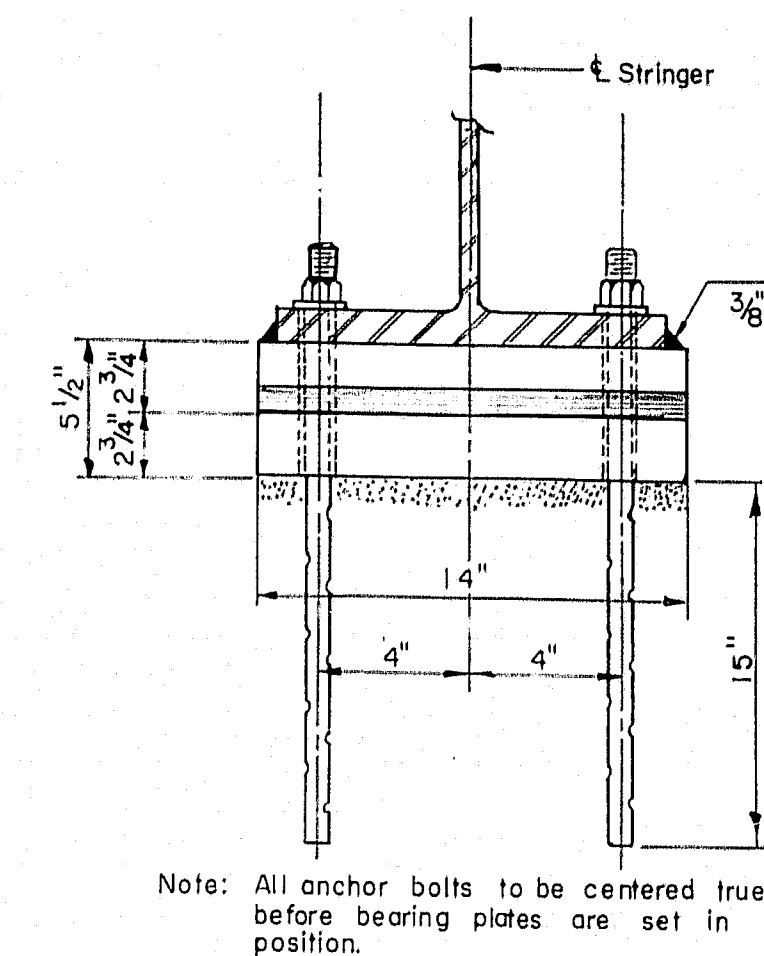
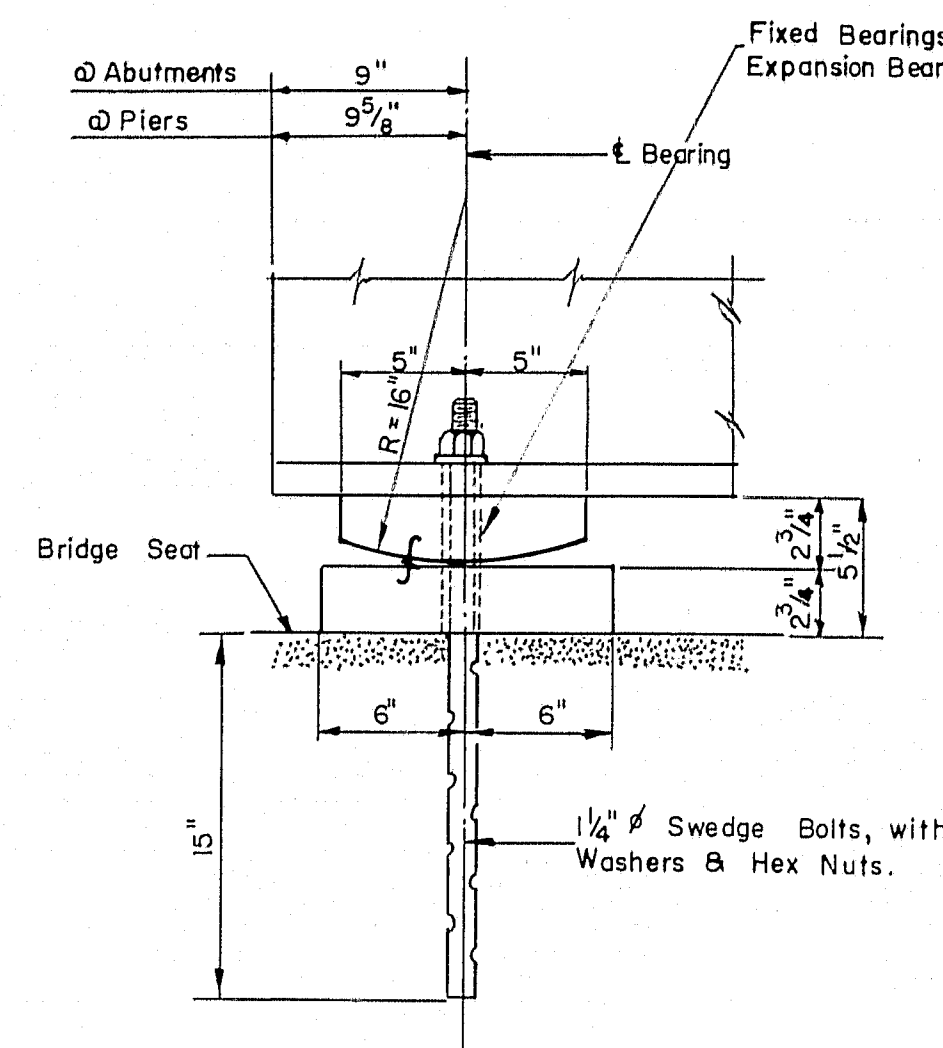
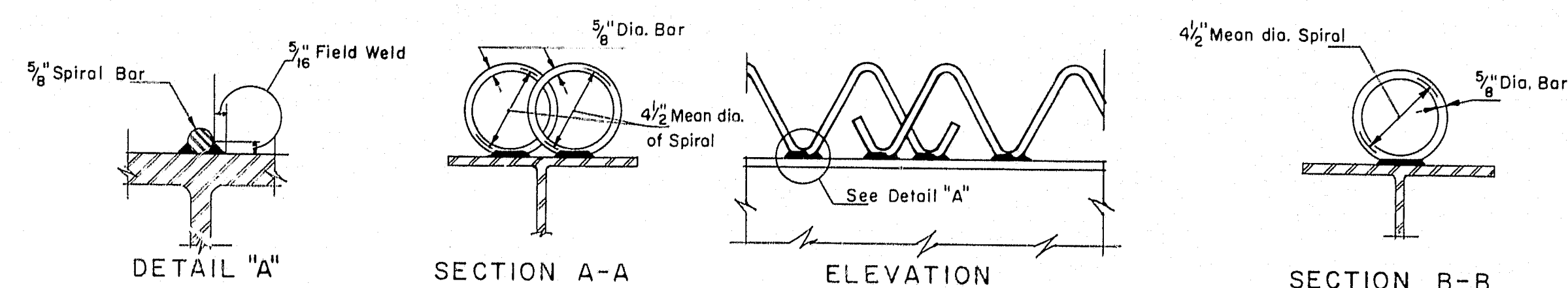
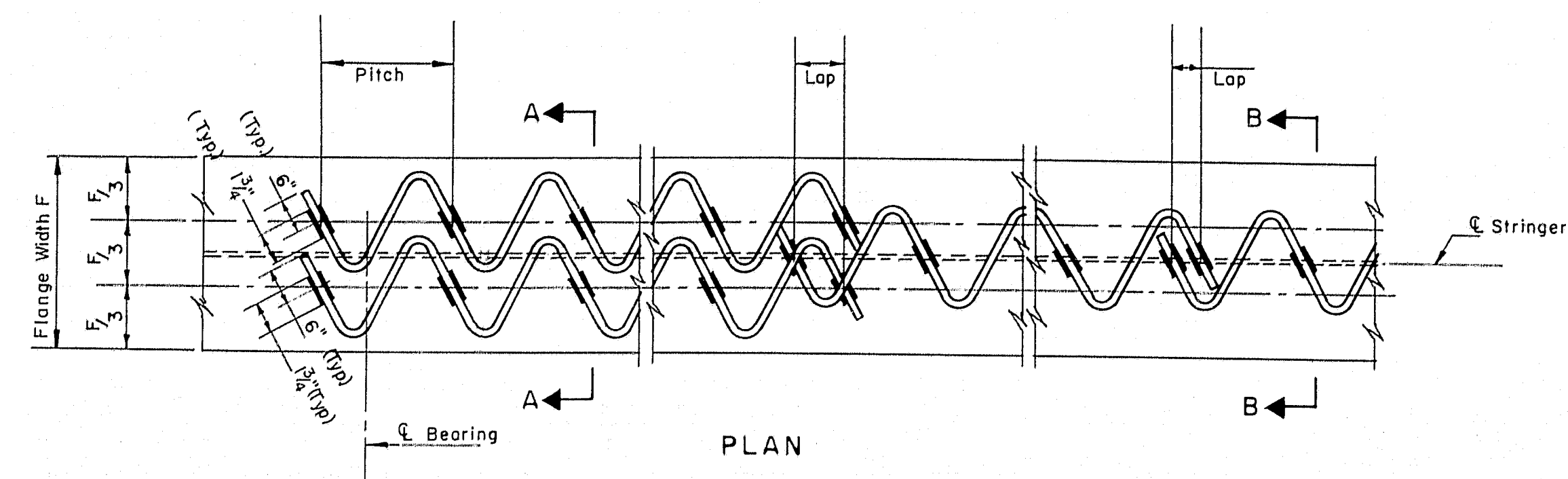
Note: 1. For reinforcing and sections see Sheet 6.
2. For beam seat elevation and elevations at top of pier columns see Sheet 6.

THE CLARKSON ENGINEERING CO., INC.			
DESIGN D.S.-H.L.	CHECK G.B.	BRIDGE NO.	SURVEY
DRAWN E. K.	APPROVED W.A.H.-C.J.M.	PLOT	
STATE HIGHWAY COMMISSION			
INTERSTATE #95			
OVER			
ROUTE 201 (RELOCATED)			
IN THE CITY OF			
FAIRFIELD			
SOMERSET COUNTY			
PIERS C & D			
SHEET 7 OF 10 SHEETS		AUGUSTA, MAINE	

M-1151



FAIRFIELD INTERSTATE

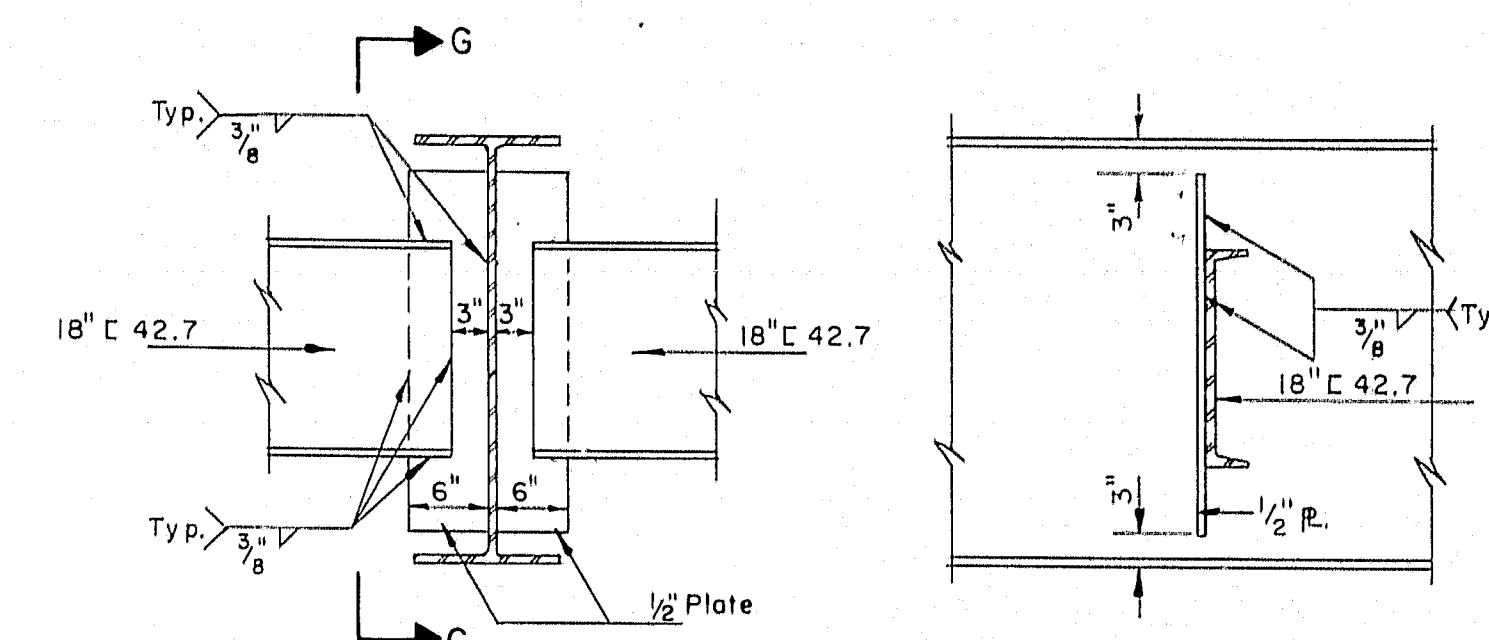
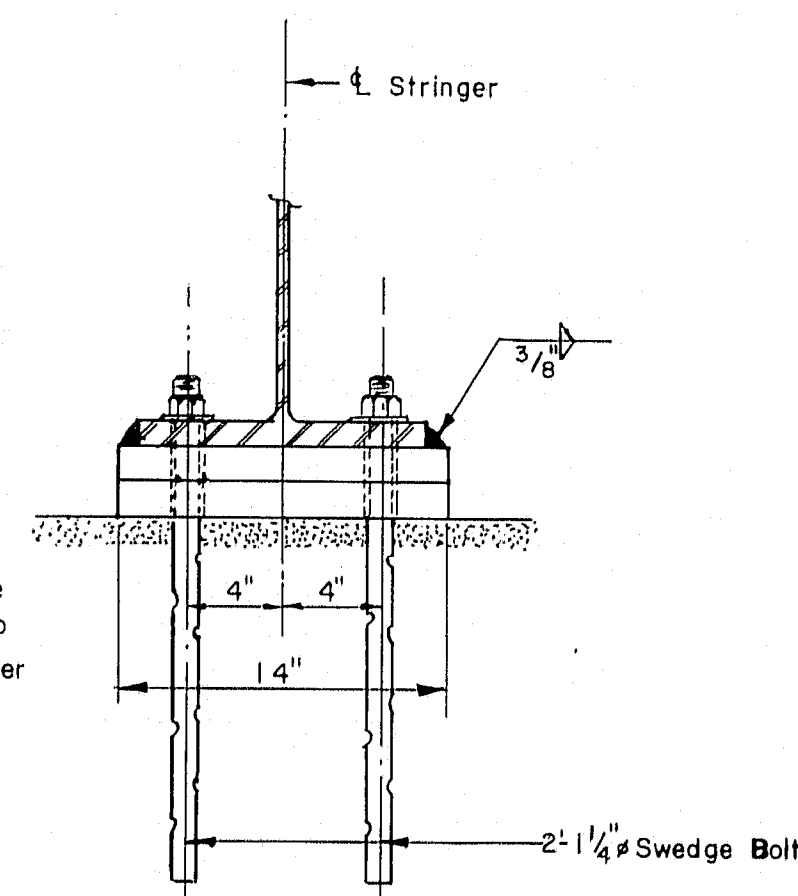
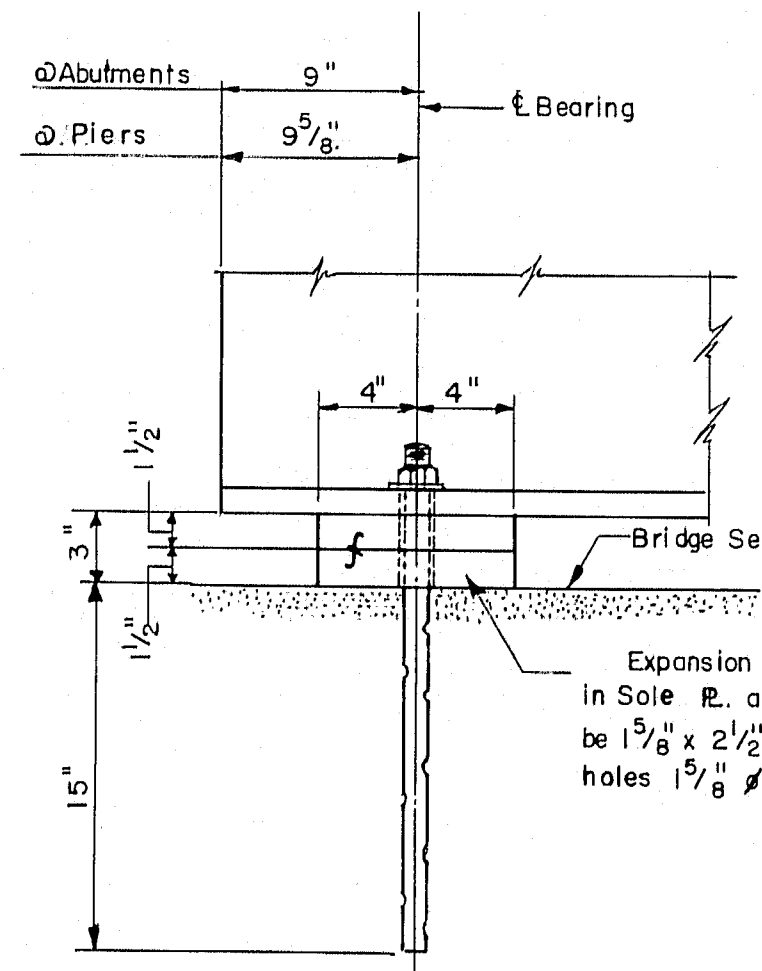


WELDED END DIAPHRAGM CONNECTION

SCALE: 3/4" = 1'-0"
NOTE: Welds to be shop or field welded

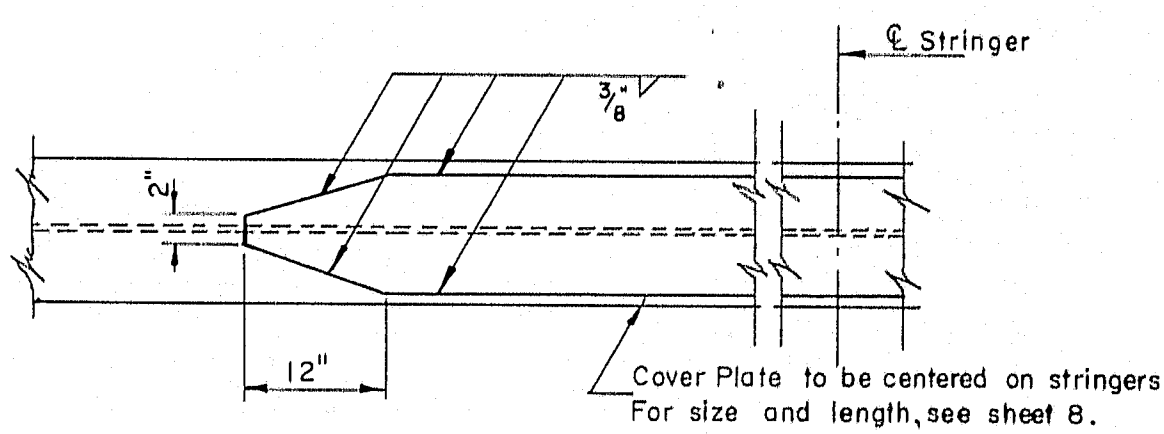
EXPANSION & FIXED BEARING DETAILS (SPANS 1&2)

Scale: 1 1/2" = 1'-0"



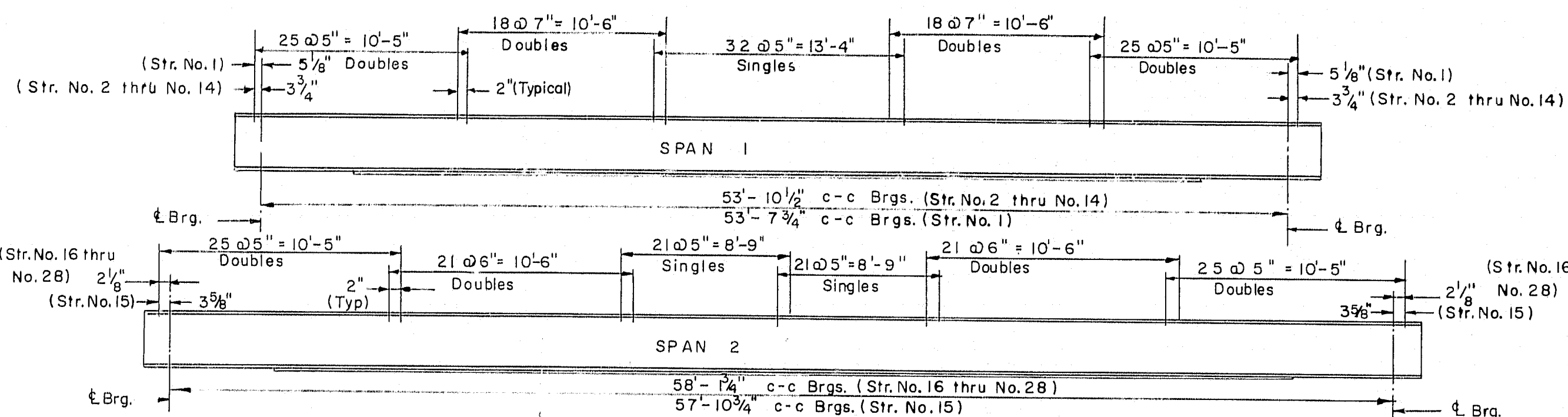
WELDED DIAPHRAGM CONNECTION

Scale: 3/4" = 1'-0"



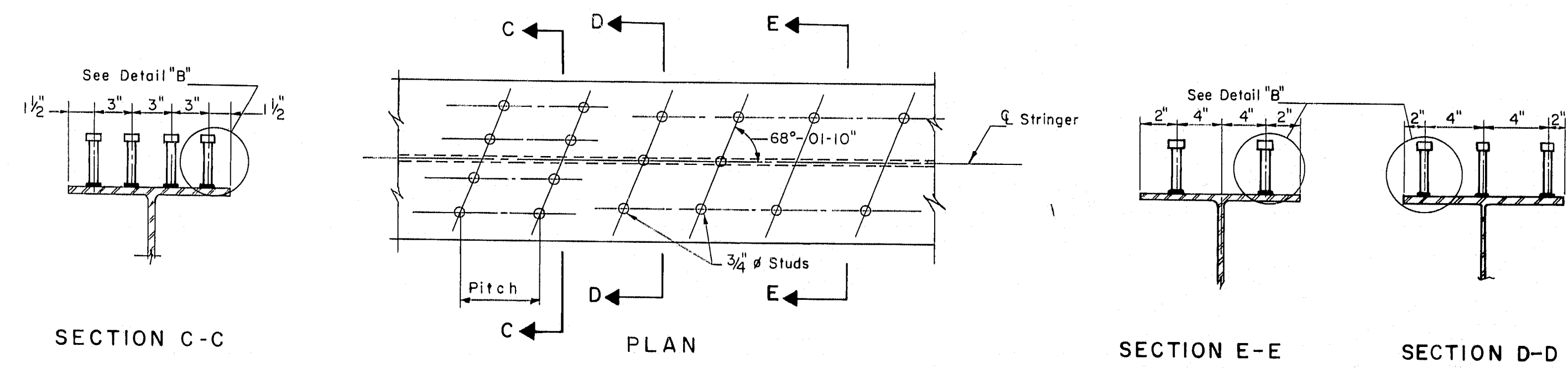
COVER PLATE DETAIL

NOT TO SCALE



TYPICAL SPIRAL SHEAR CONNECTORS DETAILS & LAYOUT

NOT TO SCALE

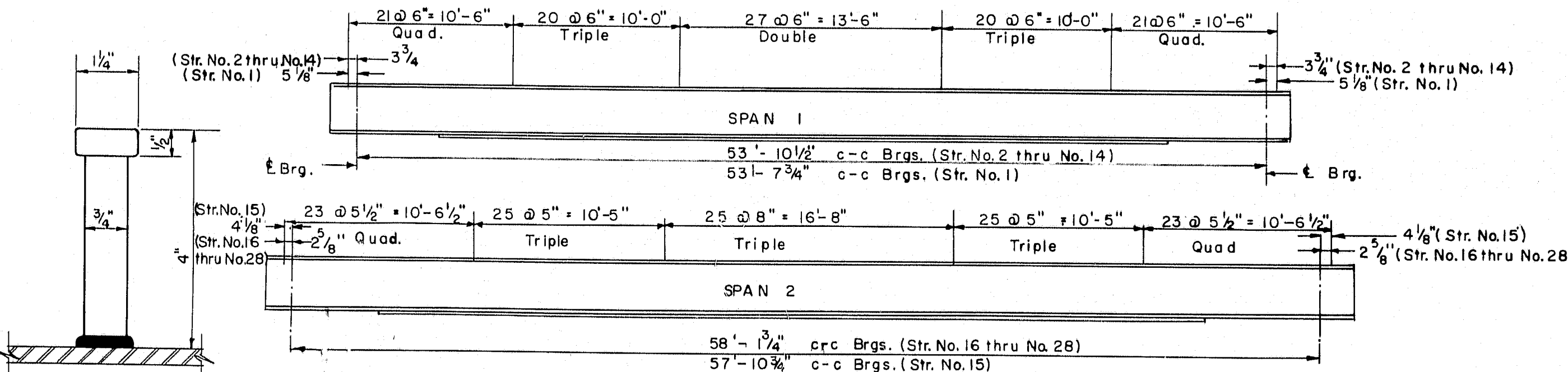


SECTION C-C

PLAN

SECTION E-E

SECTION D-D



TYPICAL STUD SHEAR CONNECTORS DETAILS & LAYOUT

NOT TO SCALE

Note: There are no shear connectors in Span 3.

FIXED AND EXPANSION BEARING DETAILS (SPAN 3)

Scale: 1 1/2" = 1'-0"

ELEVATION OF BOTTOM OF ROADWAY SLAB											
Beam No.	1/4 Point	1/2 Point	3/4 Point	Center	1/4 Point	1/2 Point	3/4 Point	Center	1/4 Point	1/2 Point	3/4 Point
1	135.36	135.18	134.98	134.77	134.53	22	133.78	133.62	133.44	133.24	133.01
2	135.24	135.06	134.86	134.64	134.41	23	133.66	133.49	133.31	133.10	132.88
3	135.12	134.94	134.74	134.52	134.28	24	133.53	133.36	133.18	132.97	132.74
4	135.00	134.82	134.62	134.39	134.16	25	133.40	133.24	133.06	132.84	132.61
5	134.88	134.70	134.49	134.27	134.03	26	133.28	133.11	132.93	132.71	132.48
6	134.76	134.57	134.37	134.15	133.90	27	133.16	132.99	132.80	132.58	132.35
7	134.64	134.45	134.24	134.02	133.78	28	133.03	132.86	132.67	132.45	132.22
8	134.52	134.33	134.12	133.90	133.66	29	132.90	132.73	132.54	132.32	132.09
9	134.40	134.21	134.00	133.78	133.54	30	132.78	132.61	132.42	132.20	131.97
10	134.28	134.09	133.88	133.66	133.42	31	132.66	132.49	132.30	132.08	131.85
11	134.16	133.97	133.76	133.54	133.30	32	132.54	132.37	132.18	131.96	131.73
12	134.04	133.85	133.64	133.42	133.18	33	132.42	132.25	132.06	131.84	131.61
13	133.92	133.73	133.52	133.30	133.06	34	132.30	132.13	131.94	131.72	131.49
14	133.80	133.61	133.40	133.18	132.94	35	132.18	132.01	131.82	131.60	131.37
15	133.68	133.49	133.28	133.06	132.82	36	132.06	131.89	131.70	131.48	131.25
16	133.56	133.37	133.16	132.94	132.70	37	131.94	131.77	131.58	131.36	131.13
17	133.44	133.25	133.04	132.82	132.58	38	131.82	131.65	131.46	131.24	131.01
18	133.32	133.13	132.92	132.70	132.46	39	131.70	131.53	131.34	131.12	130.89
19	133.20	133.01	132.80	132.58	132.34	40	131.58	131.41	131.22	131.00	130.77
20	133.08	132.89	132.68	132.46	132.22	41	131.46	131.29	131.10	130.88	130.65
21	132.96	132.77	132.56	132.34	132.10	42	131.34	131.17	130.98	130.76	130.53

Note: After the structural steel is erected and before forms are built or concrete is placed, elevations on the top flange of the beams are to be obtained at the points indicated in the table. The difference between these elevations and those shown in the table give the actual blocking distance from top of beam to bottom of slab. See Haunch Detail, (Sheet 8)

THE CLARKSON ENGINEERING CO., INC.
DESIGN D.S.H.L.
DRAWN D.E.S.

CHECK G.B.
APPROVED WAH.CJM.

BRIDGE NO.
SURVEY
PLOT

STATE HIGHWAY COMMISSION
INTERSTATE #95
OVER
ROUTE 201 (RELOCATED)
IN THE CITY OF
FAIRFIELD
SOMERSET COUNTY
SUPERSTRUCTURE DETAILS

SHEET 9 OF 10 SHEETS
AUGUSTA, MAINE

M-1153

