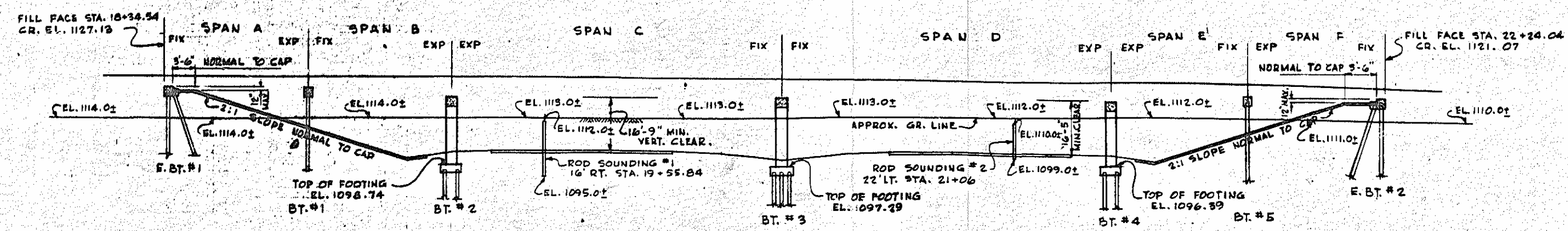


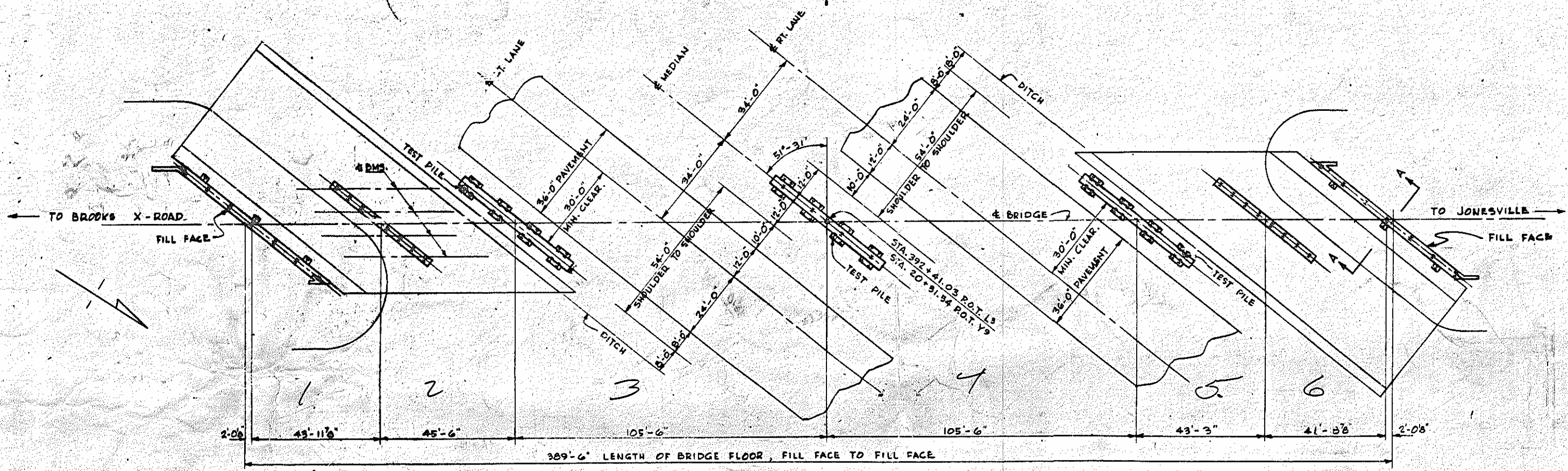
10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250

NO. ROAD DISTRICT
 STATE PROJECT NO. N.C. B.17903
 SHEET NO. 148 TOTAL SHEETS 194



SECTION ALONG & BRIDGE
 BENTS - SECTION A-A

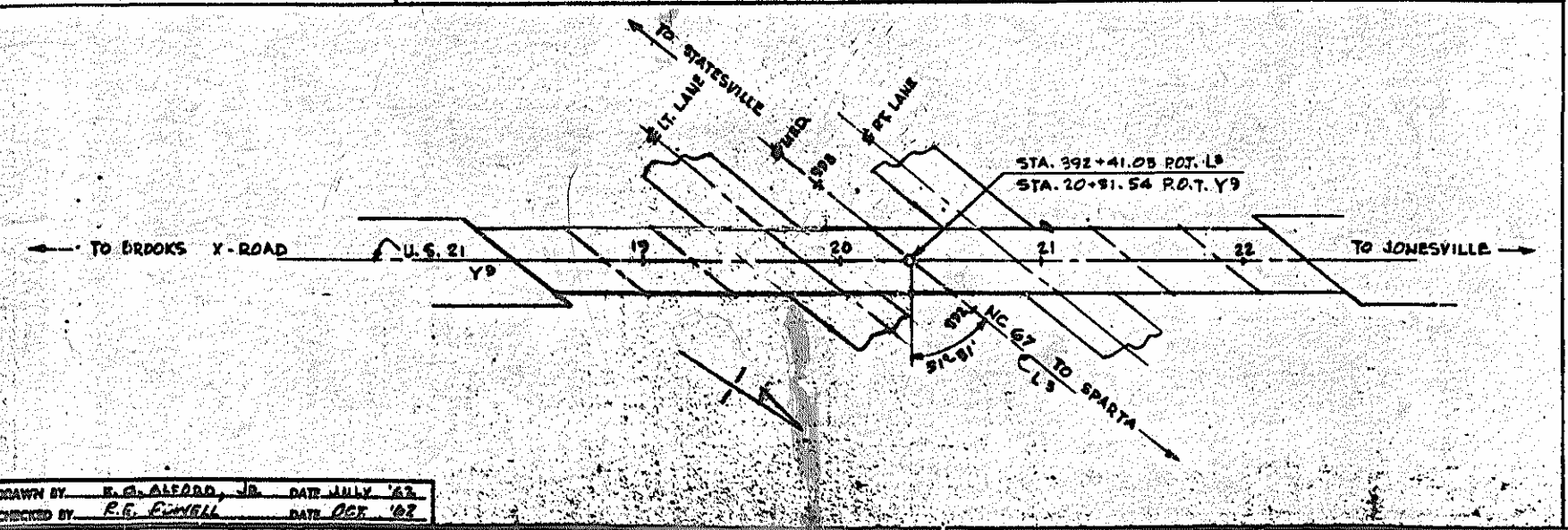
NOTES:
 ASSUMED LIVE LOAD = H-20-S16 (44) OR ALTERNATE LOADING
 FOR OTHER DESIGN DATA AND GENERAL NOTE, SEE SHEET 5
 THE CONTRACTOR WILL BE REQUIRED TO DRIVE THE FOLLOWING 12 H 59 STEEL PILES IN PLACE: 10 35' LONG IN BT. 2, 10 35' LONG IN BT. 3, AND 10 20' LONG IN BT. 4. SEE PLAN FOR LOCATION. THE TEST PILES WILL BE PAID FOR AS LINEAR FEET OF 12 H 59 STEEL PILES. THE ORDER LENGTHS FOR PILES WILL BE GIVEN AFTER THE TEST PILES HAVE BEEN DRIVEN. PILES SHALL BE DRIVEN TO THE FOLLOWING MINIMUM BEARING CAPACITIES: E. BT. 1 & 2 - 25 TONS/PILE, BT. 1, 2, 3, 4, 5 - 30 TONS/PILE
 E. BT. PILES SHALL BE DRIVEN THROUGH THE ROADWAY FILL.
 WORK IS NOT TO BE STARTED ON INTERIOR BENTS UNTIL AFTER ROADWAY SECTION HAS BEEN EXCAVATED BY THE ROADWAY CONTRACTOR. UNCLASSIFIED STRUCTURE EXCAVATION FOR INTERIOR BENTS SHALL BE MEASURED FROM SURFACE OF ROADWAY CUT.
 THE ROADWAY CONTRACTOR WILL BE REQUIRED TO REMOVE THE EXISTING PAVEMENT AND SCABIFY THE ROADWAY TO A MINIMUM DEPTH OF 2.0' WITHIN THE AREA OF E. BT. PILES.
 TRAFFIC ON U.S. 21 Y9 WILL BE ROUTED OVER A PROPOSED TEMPORARY DETOUR DURING CONSTRUCTION. SEE ROADWAY PLANS.



PLAN

NOTE: FOR PILE & FOOTING SPACINGS, SEE INDIVIDUAL BENT SHEETS.

B.M. #14 - TOP CONC. MONUMENT MARKED BJS 10
 36 RT. STA. 25+10.99 - EL. 1106.92
 LOCATION SKETCH



	TOTAL BILL OF MATERIAL							PILE CUT OFF LIN. FT.
	CLASS 'A' CONCRETE CU. YDS.	REINFOR. STEEL LBS.	STRUCT. STEEL APPROX. LBS.	12 H 59 STEEL PILES NO.	UCLASS. STR. EXCAV. CU. YDS.	SLOPE PROTECTION 4" CONC. OR 4" CONC. BIX SQ. YDS.	40. YDS.	
SUPERSTRUCTURE	405.7	95,109	324,700	10				
END BENT #1	19.4	3,647		10		541.11	560	44' 8"
BENT #1	20.5	1,912		8				34' 5 1/2"
BENT #2	59.4	8,352		10	578.75			34' 9"
BENT #3	61.3	8,536		10	556.60			42' 8"
BENT #4	58.9	8,273		10	554.65			43' 0"
BENT #5	21.5	2,037		8		517.73	490	30' 9 1/2"
END BENT #2	21.0	3,711		10				100' 3 1/2"
APPROACH CURBS	3.7	82						
TOTAL	471.0	131,859	324,700	60	1688.70	1053.84	1450.00	319' 8"

PROJECT NO. B.17903
 YADKIN COUNTY
 STATION: 392+41.03 L3

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 GENERAL DRAWING FOR
 BRIDGE OVER PROJECT ON U.S. 21
 BETWEEN JONESVILLE AND
 BROOKS X-ROAD

JULY 1962
 DRAWN BY: H. S. Thompson
 CHECKED BY: R. W. Jones
 DATE: JULY 1962

DRAWN BY: H. S. ALFORD, JR. DATE: JULY '62
 CHECKED BY: R. G. FENWELL DATE: OCT '62

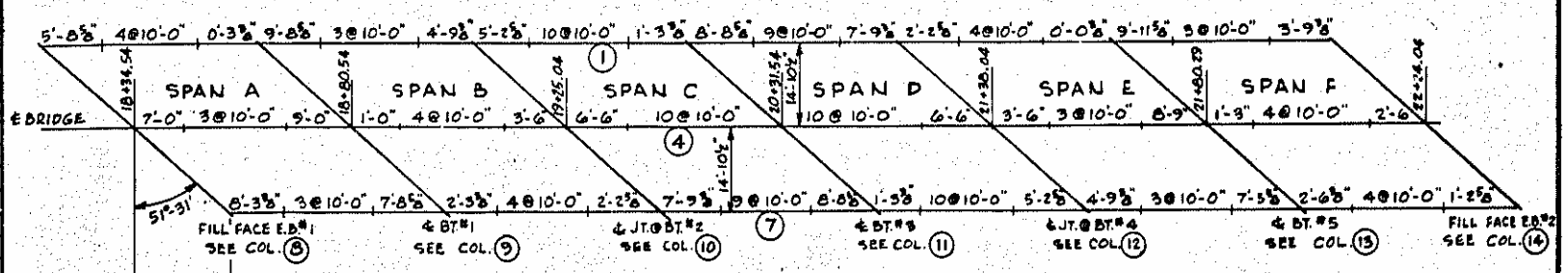
Column 1 bottom of overhang	Column 2 Top of curb	Column 3 E of exterior beam	Column 4 E of roadway	Column 5 E of exterior beam	Column 6 Top of curb	Column 7 bottom of overhang
Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.
1120.262 FILL FACE			1127.193 FILL FACE			1126.128 FILL FACE
5'-0" 1120.247 18+21.54			7'-0" 1127.106 18+41.54			8'-3" 1126.087 18+61.54
1120.216			1127.063			1126.091
1120.179			1127.014			1125.968
1120.186			1126.958 18+71.54			9'0" 1126.901 18+91.54
1120.087 18+61.54			9'0" 1126.903 E BENT #1			7'-0" 1126.845 E BENT #1
1120.085 E BENT #1			1'-0" 1126.896 18+81.54			2'-3" 1126.827 19+01.54
9'-0" 1126.091 18+71.54			8'2" 1126.754			4'0" 1126.661
1125.969			6'4" 1126.674			4'0" 1126.568
3'0" 1125.901			5'0" 1126.588 19+21.54			2'-2" 1126.447 E JT @ BENT #2
8'2" 1125.827 19+01.54			3'-6" 1126.556 E JT @ BENT #2			7'-9" 1126.365 19+51.54
4'-9" 1125.790 E JT @ BENT #2			6'-6" 1126.495 19+31.54			
8'-2" 1125.747 19+11.54			5'6" 1126.396			
6'0" 1125.681			2'2" 1126.292			
5'6" 1125.668			1'0" 1126.181			
4'0" 1125.469			1126.064			
3'6" 1125.454			1125.940			
1'9" 1125.197			8'1" 1125.871			
1125.019			6'7" 1125.775			
1124.884			5'3" 1125.683			
7'4" 1124.748			3'0" 1125.386 20+21.54			
6'0" 1124.606 20+11.54			2'2" 1125.292 E BENT #3			
5'0" 1124.588 E BENT #3			1125.071 20+41.54			
8'-0" 1124.459 20+21.54			1124.905			
3'0" 1124.308			7'2" 1124.782			
1124.144			4'4" 1124.642			
1123.978			3'6" 1124.554			
8'0" 1123.805			5'6" 1124.426			
6'2" 1123.627			1122.206			
4'4" 1123.442			1121.976 21+51.54			
3'5" 1123.351			5'-2" 1121.854 E JT @ BENT #4			
1123.054 21+11.54			4'-3" 1121.761 21+61.54			
1122.880 21+21.54			5'0" 1121.601			
6'0" 1122.688 E JT @ BENT #4			2'5" 1121.455			
6'4" 1122.641 22+21.54			1121.002 21+91.54			
4'6" 1122.426			7'-5" 1120.810 E BENT #5			
1122.204			2'-6" 1120.744 22+01.54			
1121.976			1'-5" 1120.679			
7'4" 1121.741 21+61.54			1120.208			
7'4" 1121.741 E BENT #5			1119.931			
9'-11" 1121.501 21+71.54			1119.618 22+41.54			
2'5" 1121.255			1'-2" 1119.618 FILL FACE			
1121.002 22+01.54						
1120.744 FILL FACE						
5'-9" 1120.644						

GRADE DATA

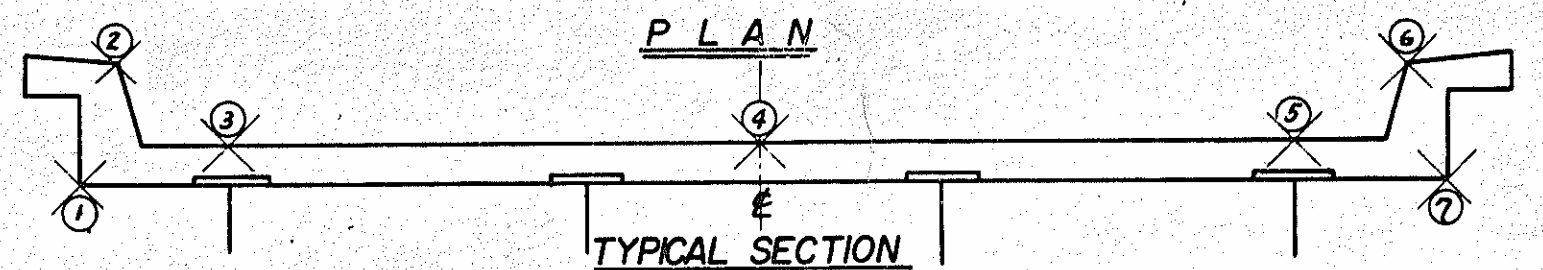
+0.469% PI. -5.07%

P.I. STA. 21+50.00
P.ELEV. 1129.17 CR.
LENGTH OF CURVE 900'
G1 = +0.469% G2 = -5.07%

FED. ROAD DIV. NO.	STATE	PROJECT NO.
3	N.C.	B. 17903
F.A. PROJECT I-77-1(2)63		SHEET NO. 199
		TOTAL SHEETS 194



NOTE: SEE GIRDER ERECTION PLAN SHEET FOR SUPERIMPOSED DEAD LOAD DEFLECTIONS FOR SPANS 'C' & 'D'.



Elevations shown in columns 1 thru 13 are final required elevations of the completed structure. In setting up the form and screed elevations, provisions must be made for deflections where required.

For columns 8 thru 13, given elevations are at 2'-0" intervals normal to E of roadway from the left gutter line to the right gutter line.

SUPERIMPOSED DEAD LOAD DEFLECTIONS (inches)						
	SPAN A	SPAN B	SPAN C	SPAN D	SPAN E	SPAN F
INT.	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
EXT.	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

HEADERS

Column 8 Fill Face of E.B.1	Column 9 E of Bent 1	Column 10 E of Bent 2	Column 11 E of Bent 3	Column 12 E of Bent 4	Column 13 E of Bent 5	Column 14 Fill Face of E.B.2
Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.	Dist. Elev.
Lt. Gutter 1126.900	Lt. Gutter 1126.787	Lt. Gutter 1126.489	Lt. Gutter 1125.200	Lt. Gutter 1123.373	Lt. Gutter 1122.422	Lt. Gutter 1121.929
1127.017	805	499	274	350	293	287
061	853	510	268	328	265	252
064	839	500	261	305	246	216
087	871	529	254	281	224	178
111	886	548	239	265	204	140
133	909	580	232	209	218	104
093	855	502	160	181	119	1121.066
051	807	446	88	1123.032	1122.024	863
1127.010	758	391	1125.017	1122.944	1121.923	762
1126.969	710	335	1124.945	1122.856	1121.834	659
084	661	280	1124.872	1122.767	1121.748	558
Rt. Gutter 1126.841	Rt. Gutter 1126.561	Rt. Gutter 1126.166	Rt. Gutter 1124.725	Rt. Gutter 1122.587	Rt. Gutter 1121.545	Rt. Gutter 1120.951
1127.017	805	499	274	350	293	287
061	853	510	268	328	265	252
064	839	500	261	305	246	216
087	871	529	254	281	224	178
111	886	548	239	265	204	140
133	909	580	232	209	218	104
093	855	502	160	181	119	1121.066
051	807	446	88	1123.032	1122.024	863
1127.010	758	391	1125.017	1122.944	1121.923	762
1126.969	710	335	1124.945	1122.856	1121.834	659
084	661	280	1124.872	1122.767	1121.748	558
Rt. Gutter 1126.841	Rt. Gutter 1126.561	Rt. Gutter 1126.166	Rt. Gutter 1124.725	Rt. Gutter 1122.587	Rt. Gutter 1121.545	Rt. Gutter 1120.951

PROJECT No. 8.17903
YADKIN COUNTY
STATION: 392+41.03 L3

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
ELEVATIONS FOR SETTING UP FORMS AND SCREEDS

APRIL 1961	SHEET NO. 5-64
REVISIONS	TOTAL SHEETS 67
NO. BY DATE	NO. BY DATE
1	2
2	3

DRAWN BY: R. G. ALFORD JR. DATE: AUG. '61
CHECKED BY: R. T. PHILLIPS DATE: OCT. 1962

NOTES

ASSUMED LIVE LOAD = H 20-16 OR ALTERNATE LOADING

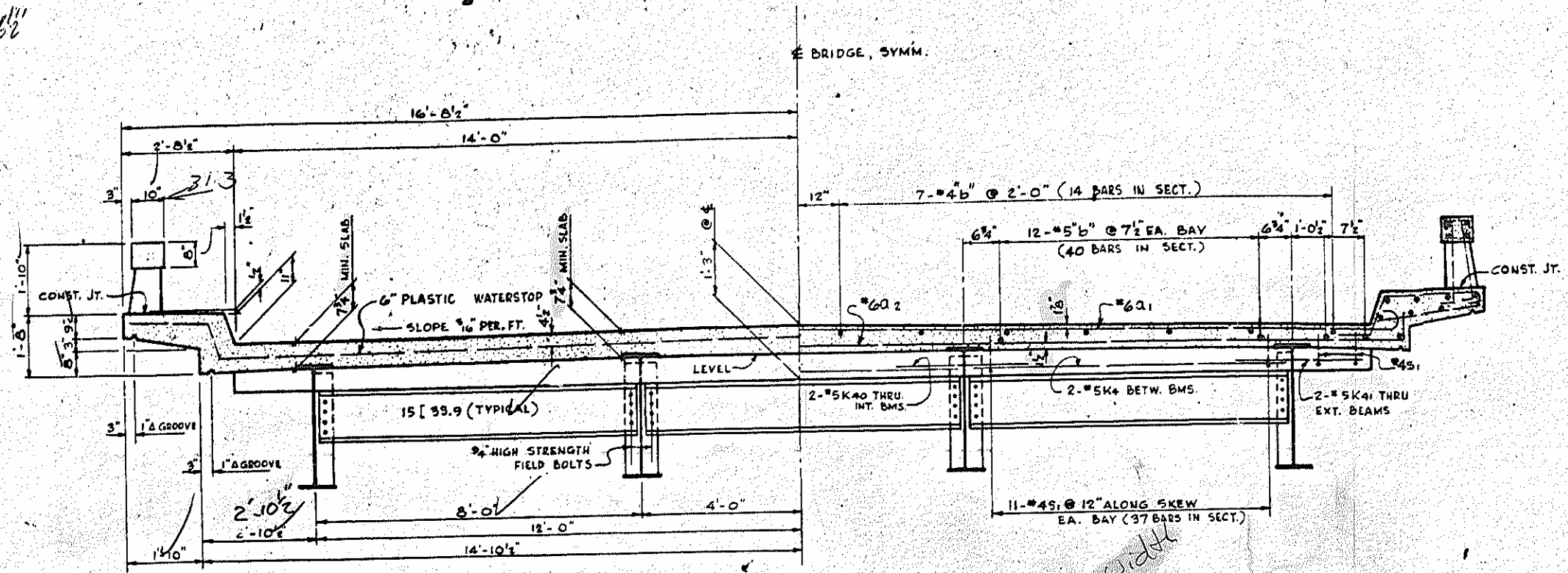
CONCRETE IN COMPRESSION 1100 LBS. PER SQ. IN.
 REINFORCIN STEEL IN TENSION 20000 LBS. PER SQ. IN.
 STRESS IN EXTREME FIBER OF STRUCTURAL STEEL 20,000 LBS. PER SQ. IN.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET S-N.

FOR BARS INDICATED AND NO BAR MARK SHOWN, SEE CONCRETE PLAN FOR THE DIFFERENT SPANS.

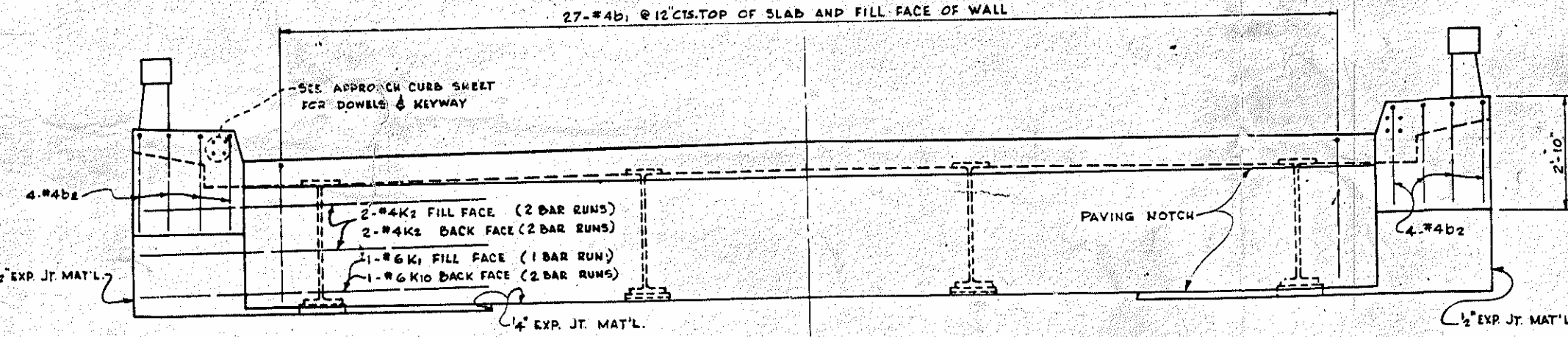
EXPANSION JOINTS TO BE KEPT FREE OF CONCRETE AND SEALED WITH APS ASPHALT CEMENT.

0 to 0
33.6 = 33-6 1/2

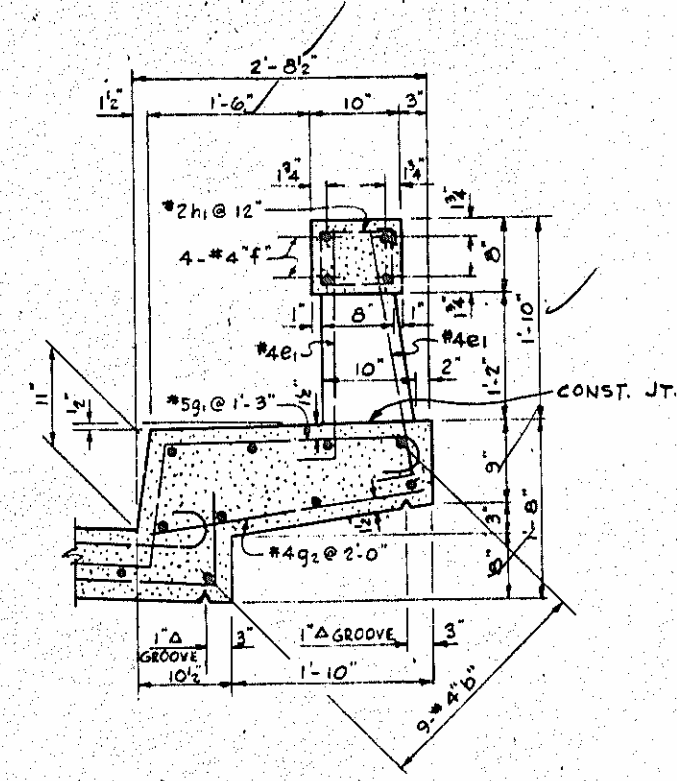


TYPICAL SECTION
SHOWING DIAPHRAGMS AT BENTS

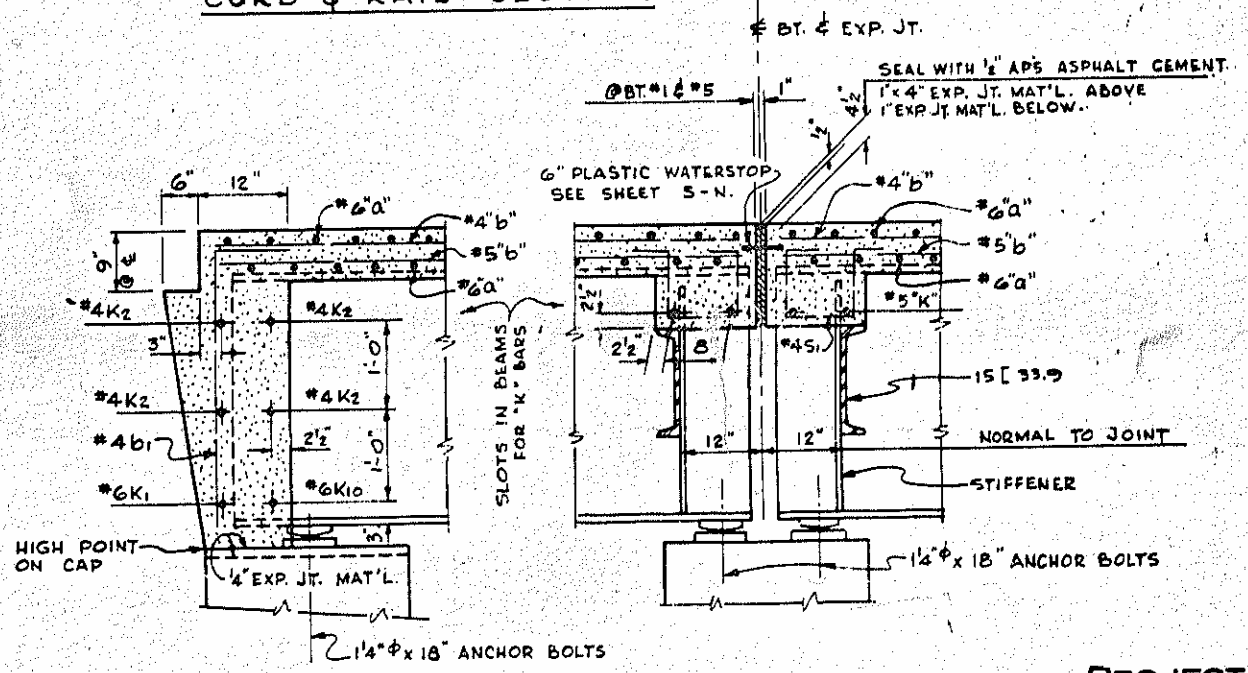
Deck width
33'-5"



END ELEVATION



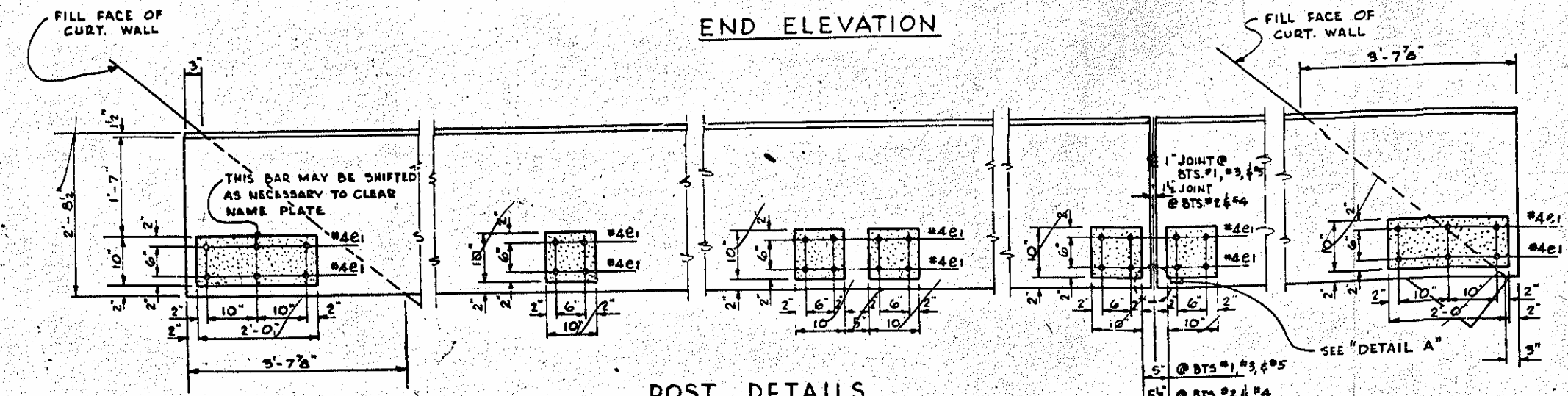
CURB & RAIL SECTION



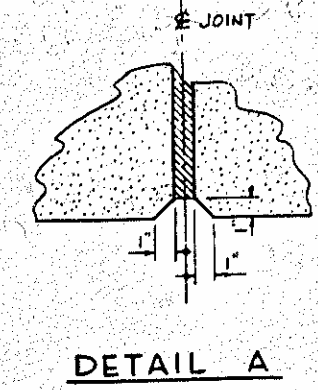
SECTION A-A

SECTION B-B
@ BENTS #1 & #5

PROJECT NO. 8.17903
 YADKIN COUNTY
 STATION: 392+41.03 LB



POST DETAILS



DETAIL A

SPECIAL DRAWN BY W. O. ALFORD, JR. DATE 5-27-1962
 CHECKED BY R. E. POWELL DATE 4-28-1962
 STANDARD DRAWN BY W. O. ALFORD, JR. DATE MAY 1962
 CHECKED BY R. E. POWELL DATE 4-28-1962

FOR SPANS A, B, E, & F

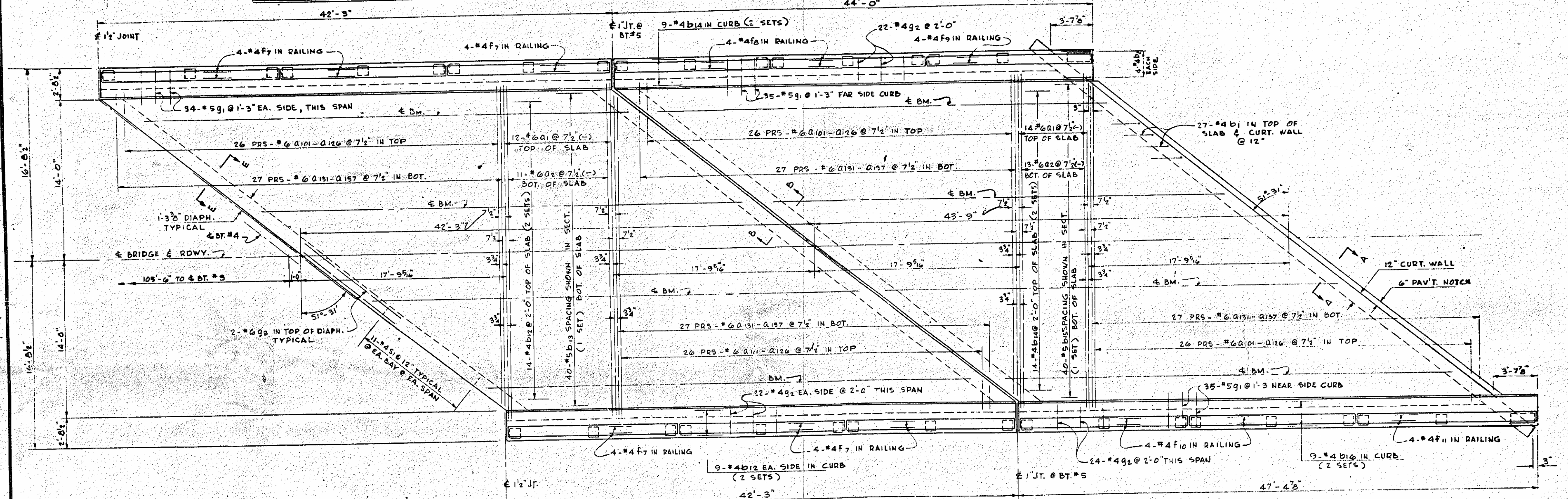
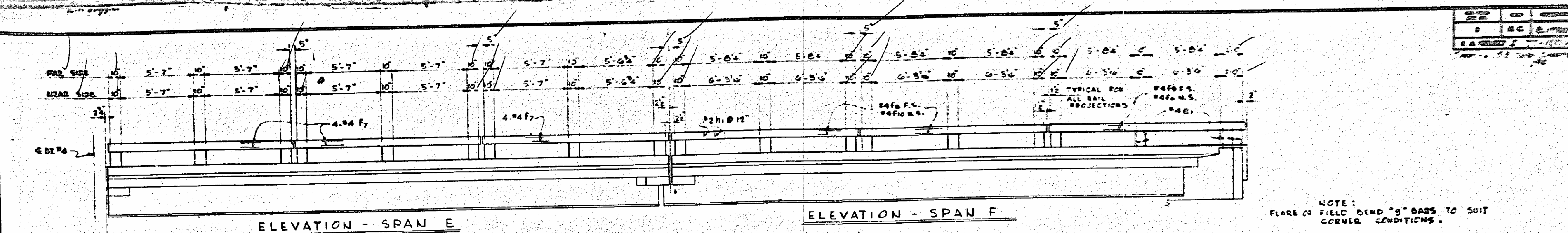
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH

STANDARD TYPICAL SECTIONS
 28' ROADWAY - 18" CURBS - 51'-31" SKEW
 4 STEEL BEAMS - H 20-S16 L.L.

MAY 1962

REVISIONS	DATE	DESCRIPTION

NO.	DATE	BY



PLAN - SPAN E

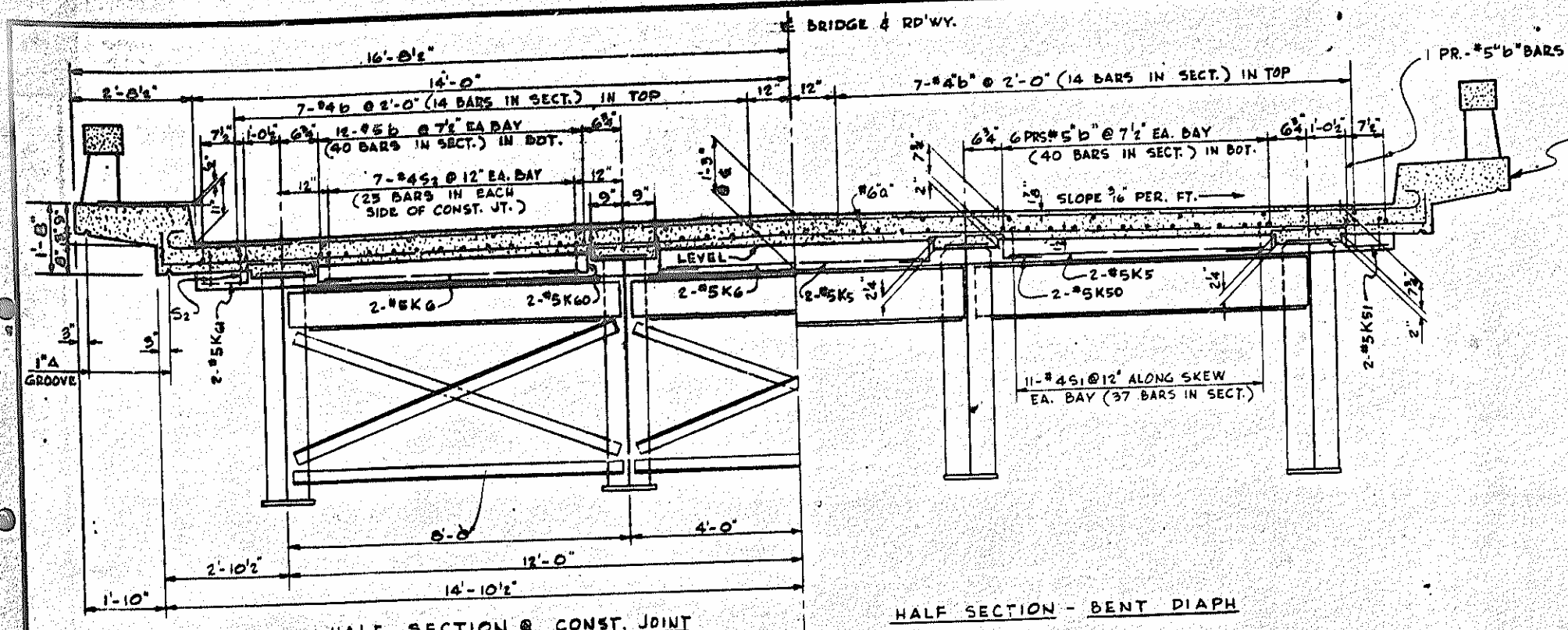
PLAN - SPAN F

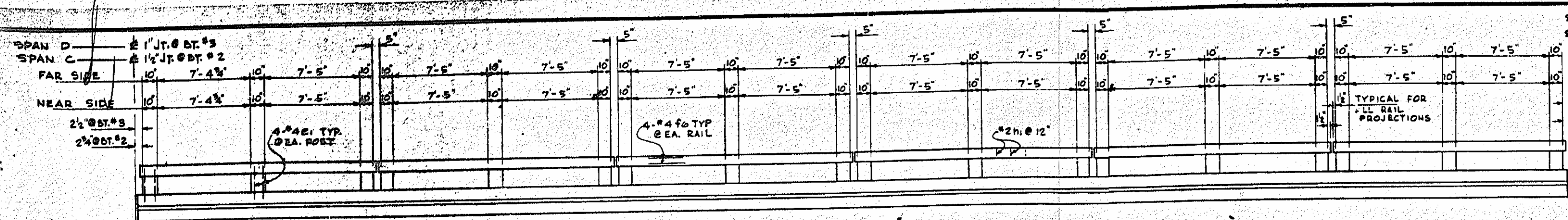
PROJECT NO. 8.17903
 YADKIN COUNTY
 STATION: 392+41.03 L3

DRAWN BY T. G. ALGERD, JR. DATE JULY 1962
 CHECKED BY J. H. WIGGIN DATE SEP. 1962

STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION		
SUPERSTRUCTURE SPANS E & F		
JULY 1962		
REVISED	DATE	BY

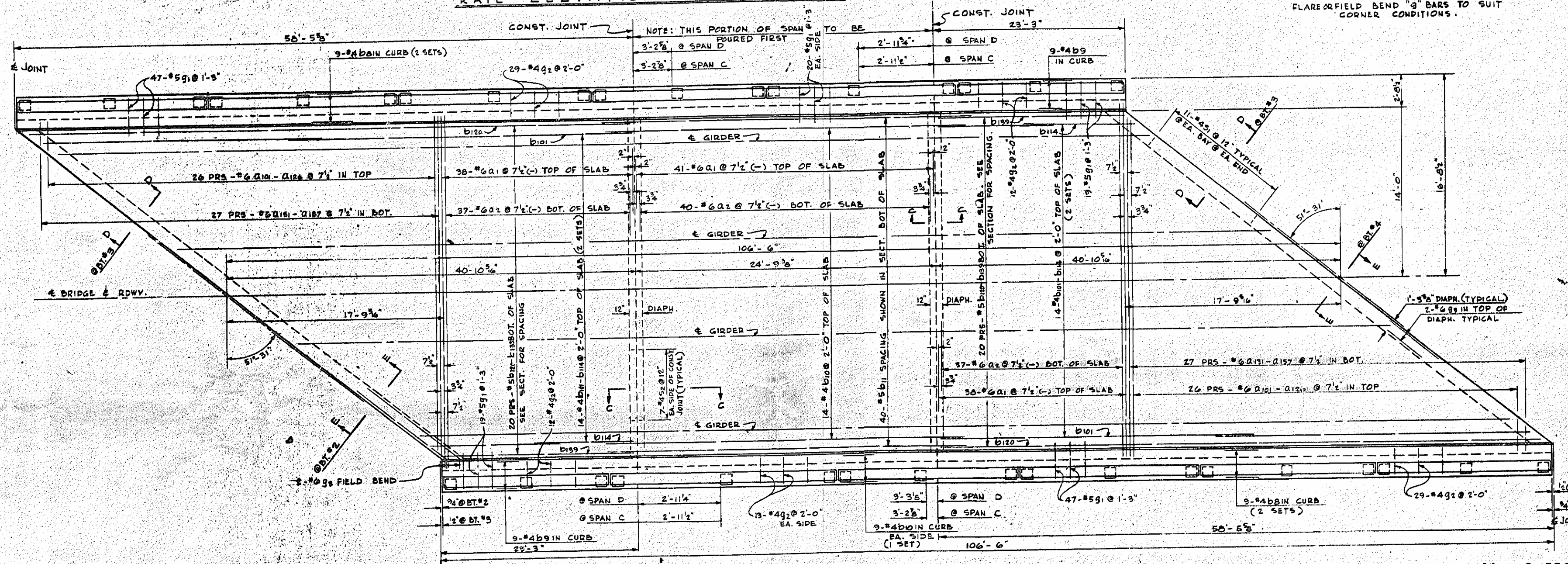
5-47
67





RAIL ELEVATION - SPAN C OR D

NOTE:
FLARE OR FIELD BEND "3" BARS TO SUIT
CORNER CONDITIONS.



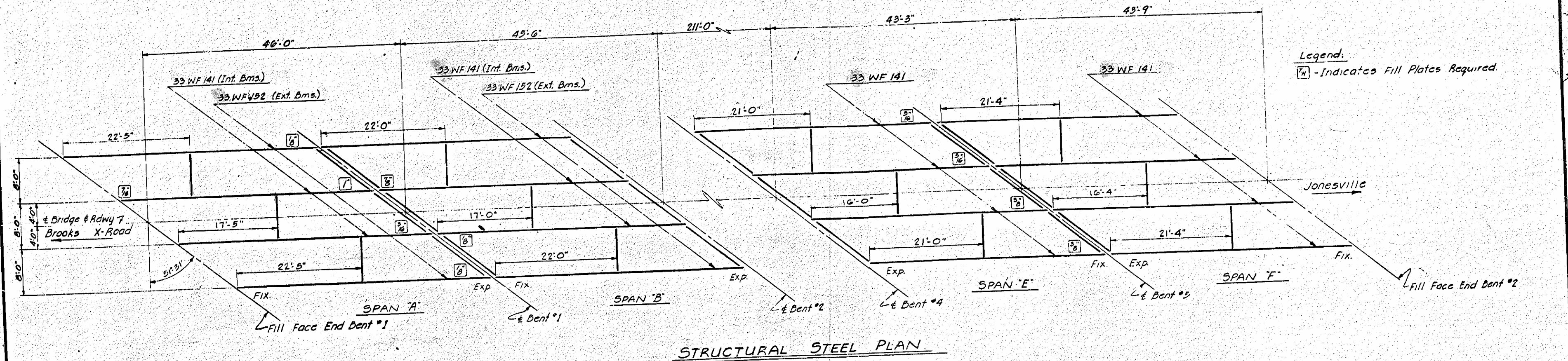
PLAN - SPAN C OR D

NOTE: CENTER PORTION TO BE POURED FIRST

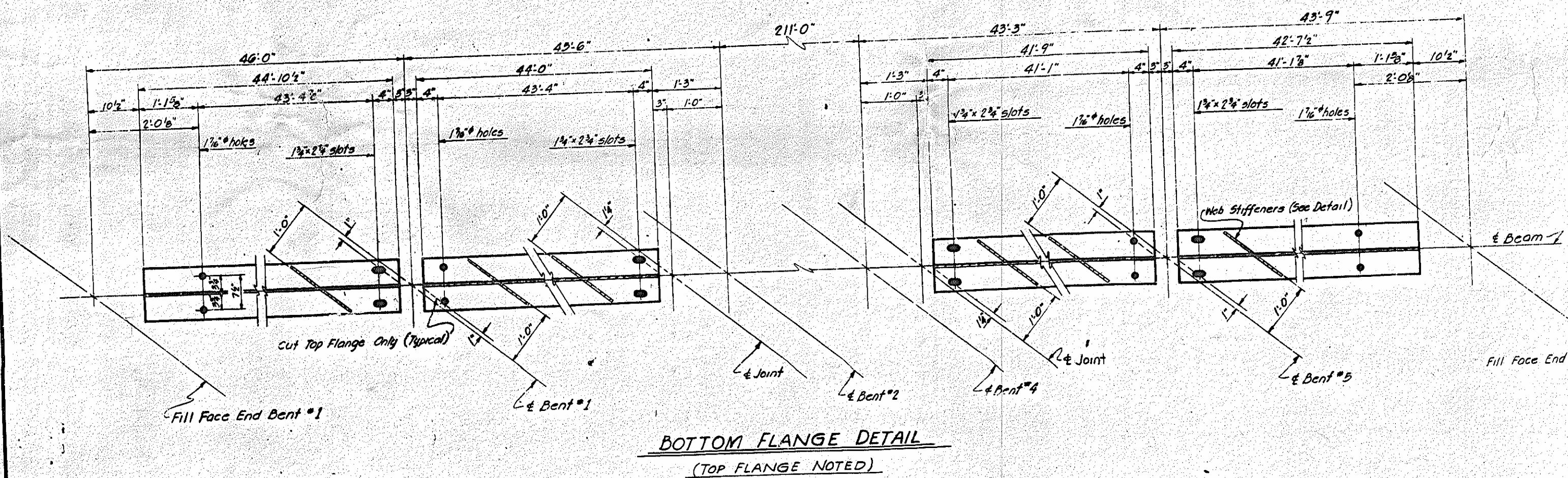
PROJECT NO. 8.17903
YADKIN COUNTY
STATION: 392 + 41.09 1/2

DRAWN BY: E. G. ALFORD JR. DATE: JULY '62
CHECKED BY: [Signature] DATE: [Signature]

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
SUPERSTRUCTURE	
SPAN C OR D	
JULY 1962	
DATE	5-73
BY	67

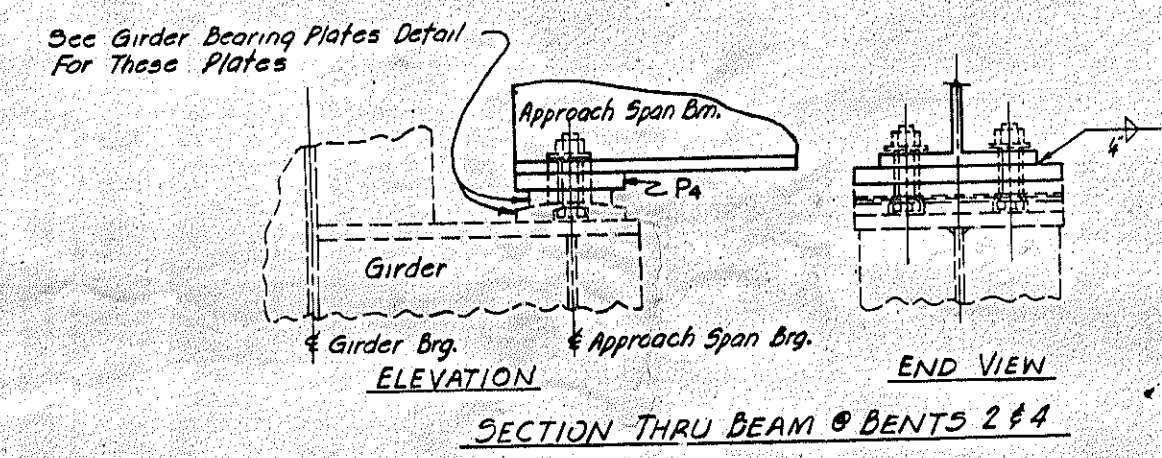
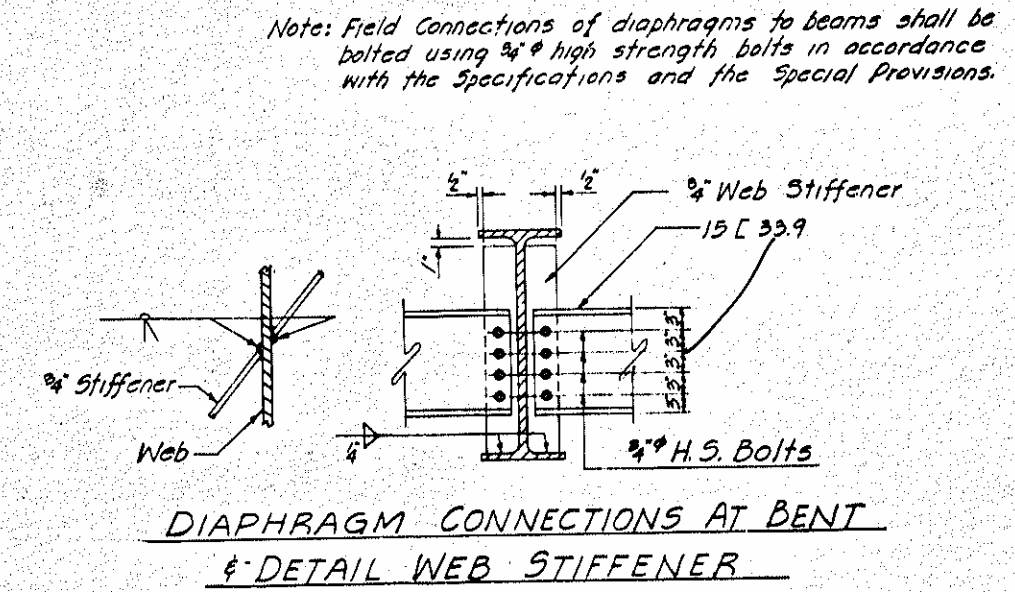
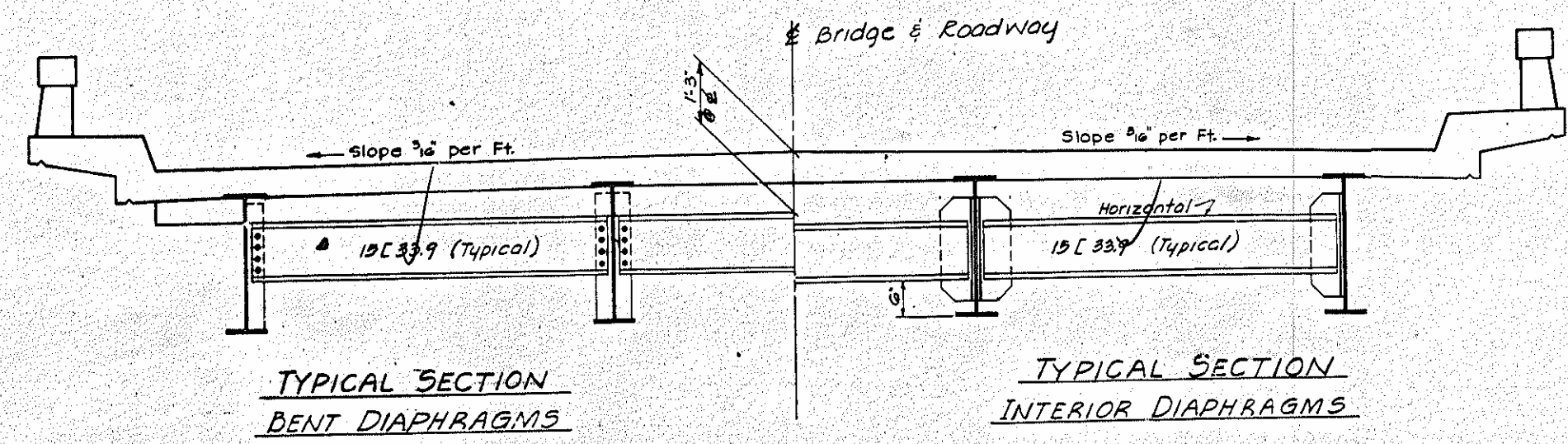


Notes:
Dimensions to diaphragms are from ends of beams.
Stiffeners are not required on the end bent end of beams nor on the outside of exterior beams.
Beam dimensions shown in detail are horizontal.

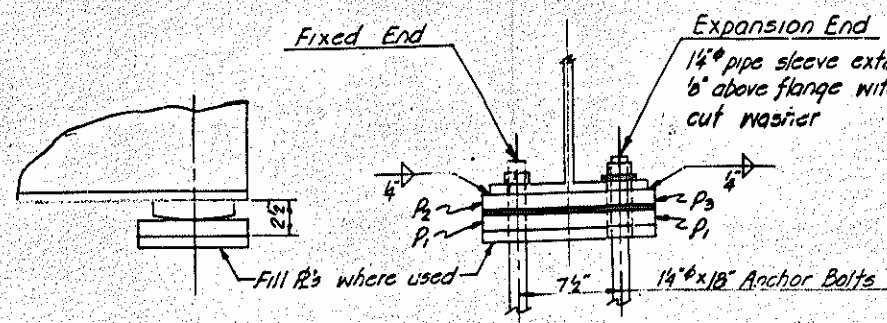
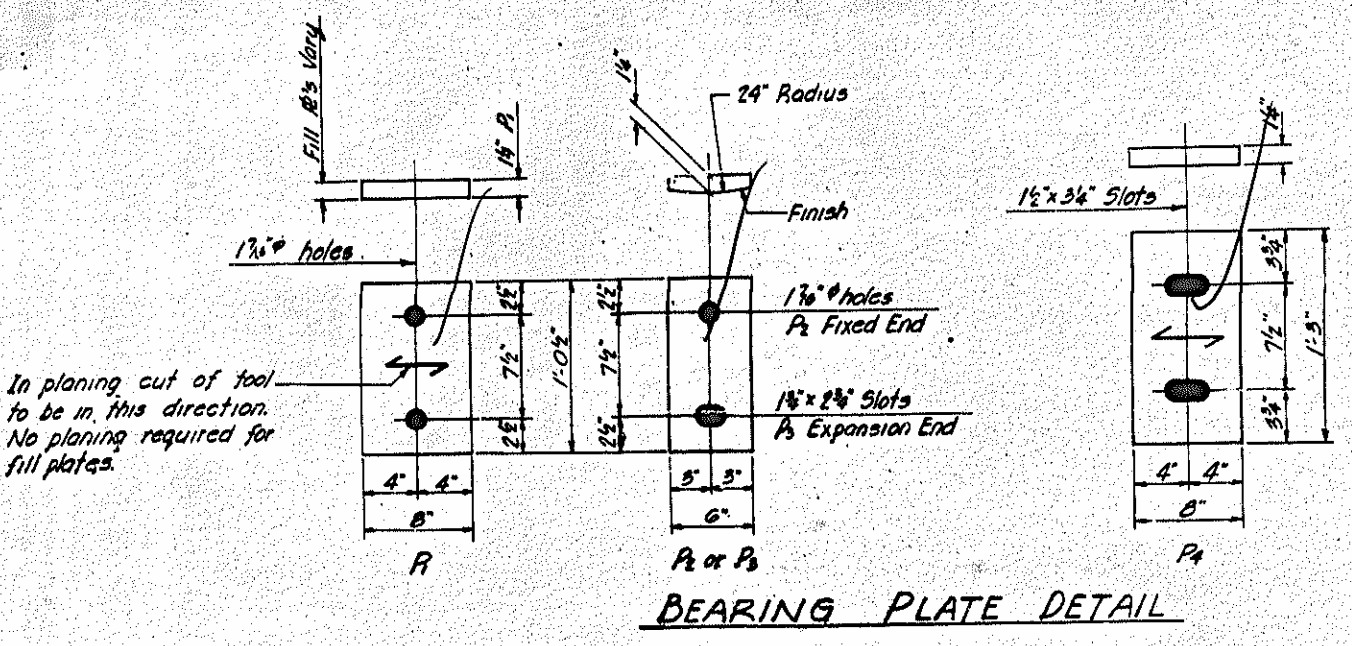
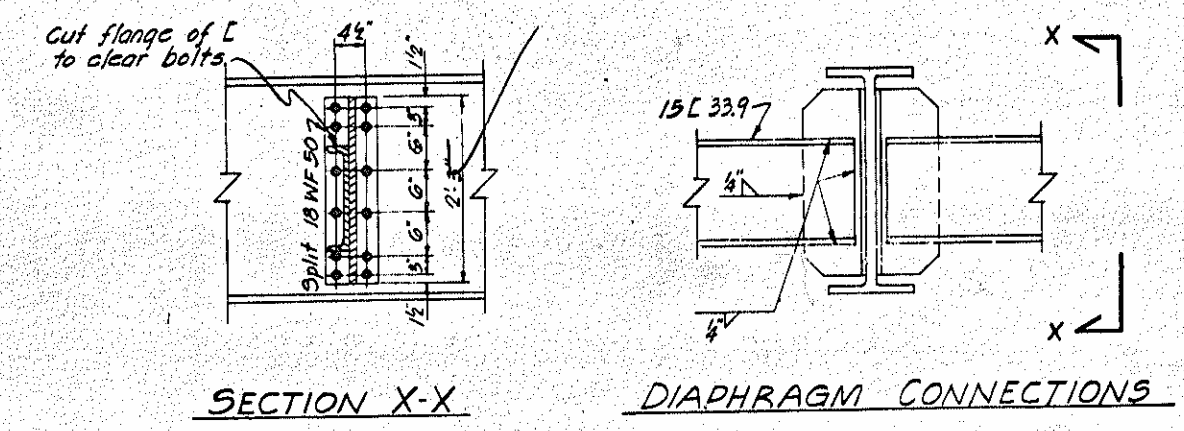


PROJECT NO. 8.17903
YADKIN COUNTY
STATION: 392+41.03-1s

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RALEIGH	
STRUCTURAL STEEL	
SPANS A, B, E, F	
DATE	1962
JULY	
NO.	5-50
REV.	67



- Bearing Plates Required**
- 24 P₁ - 8" x 14" x 1/4"
 - 16 P₂ - 6" x 14" x 1/4"
 - 8 P₃ - 6" x 14" x 1/4"
 - 8 P₄ - 8" x 14" x 1/4"
- plane finish 14" as detailed.
- Fill Plates Required**
- 3 - 8" x 5" x 1/4"
 - 2 - 8" x 6" x 1/4"
 - 2 - 8" x 5" x 1/4"
 - 1 - 8" x 7 1/2" x 1/4"
 - 1 - 8" x 7" x 1/4"
 - 1 - 8" x 1" x 1/4"
 - 1 - 8" x 3/4" x 1/4"
- Note: At the contractor's option fill plates may be combined with masonry plates.



APPROXIMATE STRUCTURAL STEEL WEIGHT = 110,200 LBS.

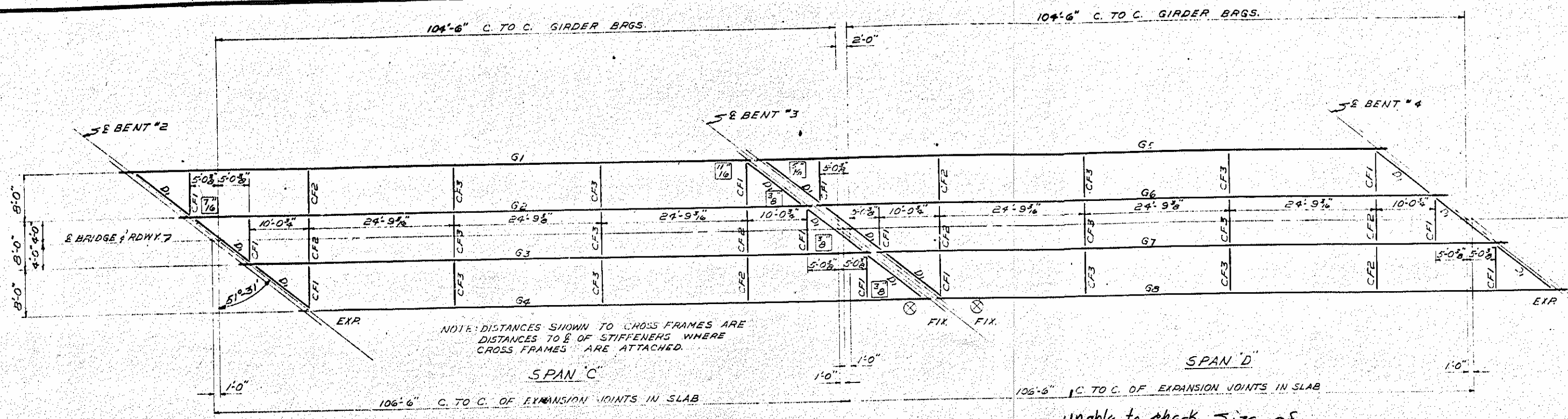
Note: All beams shall be of ASTM A-36 grade structural steel. See Sheet S-N.

PROJECT No. 8.17903
YARDIN COUNTY
STATION: 292+41.03 LB

DRAWN BY: B.E. POWELL DATE: JULY 1962
CHECKED BY: P. H. WILSON DATE: SEP. 1962

	DEAD LOAD DEFLECTION					
	Def'n. Due to Wt. of Dm.	Def'n. Due to Superimp. D.L.	Total D.L. Def'n.	Def'n. Due to V.C. Ord.	Camber	
SPAN 'A'	Ext. Dm.	1/16"	3/8"	7/16"	3/16"	3/4"
	Int. Dm.	1/16"	3/8"	7/16"	3/16"	3/4"
SPAN 'B'	Ext. Dm.	1/16"	3/8"	7/16"	3/16"	3/4"
	Int. Dm.	1/16"	3/8"	7/16"	3/16"	3/4"
SPAN 'E'	Ext. Dm.	1/16"	3/8"	7/16"	3/16"	None
	Int. Dm.	1/16"	3/8"	7/16"	3/16"	None
SPAN 'F'	Ext. Dm.	1/16"	3/8"	7/16"	3/16"	None
	Int. Dm.	1/16"	3/8"	7/16"	3/16"	None

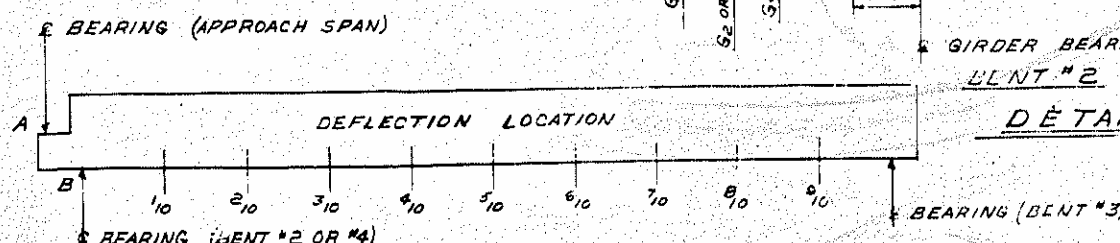
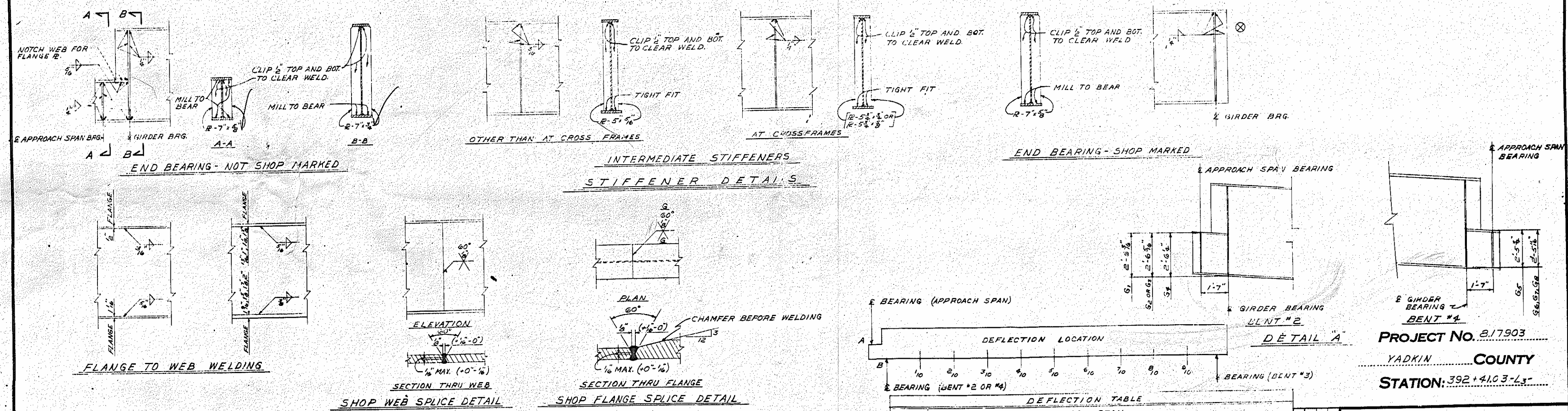
STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
BALDWIN	
STRUCTURAL STEEL	
SPANS A, B, E, F	
JULY	1962
	5-51
	67



LEGEND FOR LOCATING FILL PLATES:
 THICKNESS - - - - -

GIRDER ERECTION PLAN
 DIMENSIONS SHOWN ARE HORIZONTAL

Unable to check size of stiffeners (intermediate) over I-77



DEFLECTION TABLE

		EXTERIOR BEAM											
LOCATION		A	B	10	20	30	40	50	60	70	80	90	C
SUPERIMP. D.L. DEFL'N.	-8"	0	3/8	1 1/2	1 3/4	2	2 1/8	2 1/2	2 3/4	3	3 1/4	3 1/2	0
STEEL DEFL'N.	0	0	3/8	1 1/4	1 3/4	2	2 1/8	2 1/2	2 3/4	3	3 1/4	3 1/2	0
TOTAL D.L. DEFL'N.	-8"	0	3/8	1 1/2	1 3/4	2	2 1/8	2 1/2	2 3/4	3	3 1/4	3 1/2	0
V.C. ORDINATE	0	0	3/8	1 1/4	1 3/4	2	2 1/8	2 1/2	2 3/4	3	3 1/4	3 1/2	0
CAMBER	0	0	1/4	2/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	0

		INTERIOR BEAM											
LOCATION		A	B	10	20	30	40	50	60	70	80	90	C
SUPERIMP. D.L. DEFL'N.	-8"	0	3/8	1 1/8	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	0
STEEL DEFL'N.	0	0	3/8	1 1/8	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	0
TOTAL D.L. DEFL'N.	-8"	0	3/8	1 1/8	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	0
V.C. ORDINATE	0	0	3/8	1 1/8	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	0
CAMBER	0	0	1/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8	2/8	0

NOTE: "RADIOGRAPHIC INSPECTION" IS REQUIRED FOR THIS WELD ON BOTTOM FLANGE.

* DEFLECTIONS INCLUDED IN DIMENSIONS SHOWN IN DETAIL A.

ALL DEFLECTIONS ARE IN INCHES.

PROJECT NO. 217903
 YADKIN COUNTY
 STATION: 392+41.03-L3

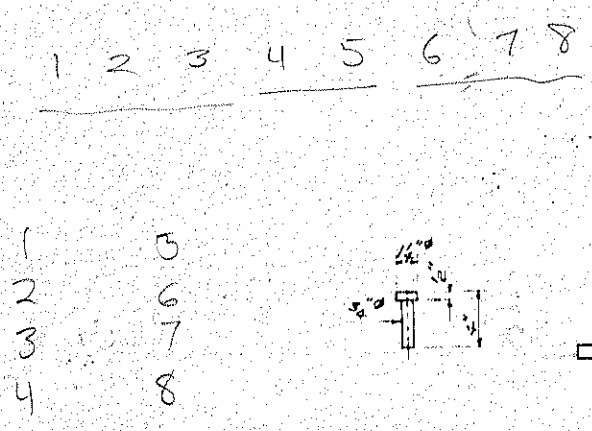
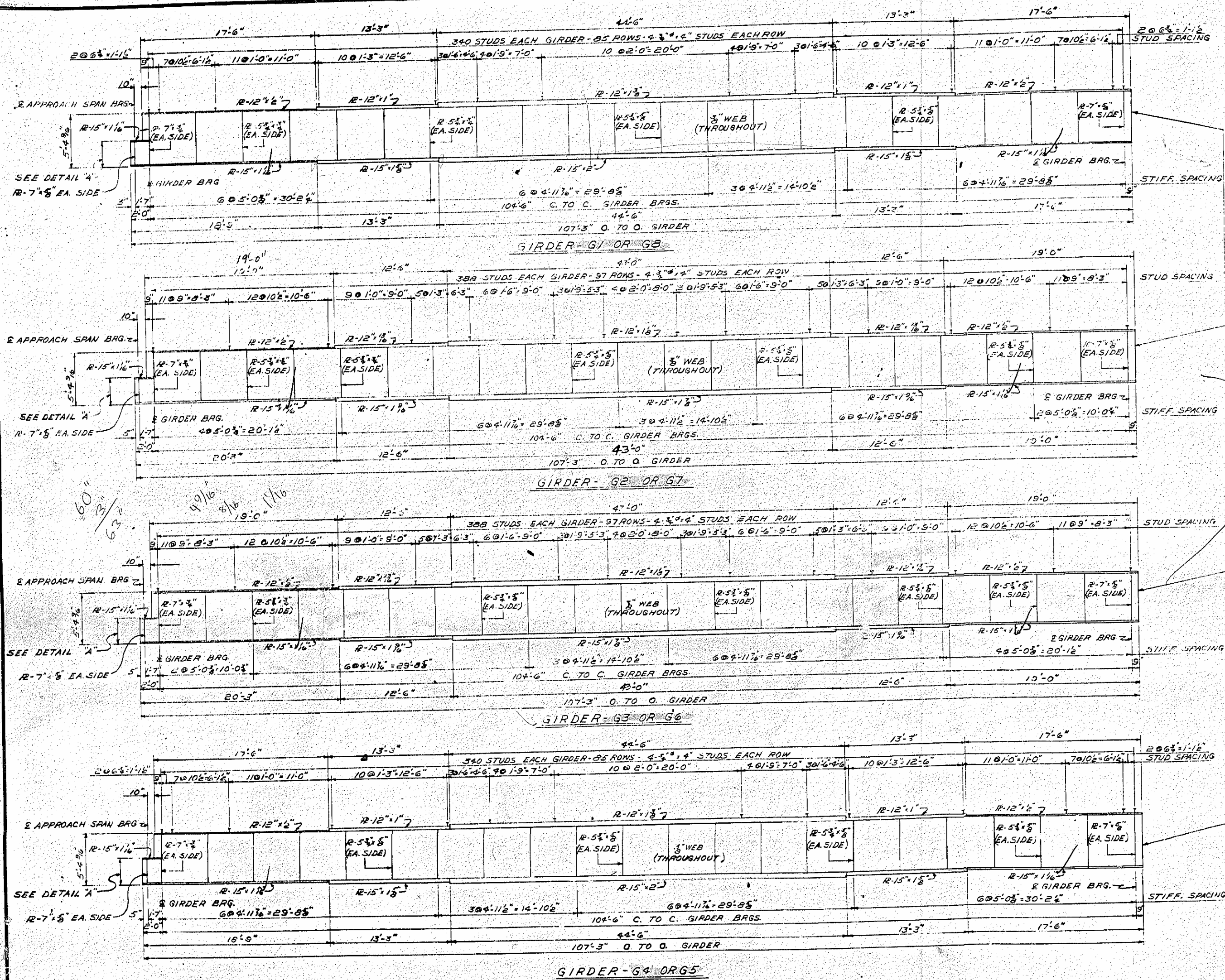
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 ERECTION PLAN
 AND
 GIRDER WELD DETAILS

JUNE 1962
 5-53
 67

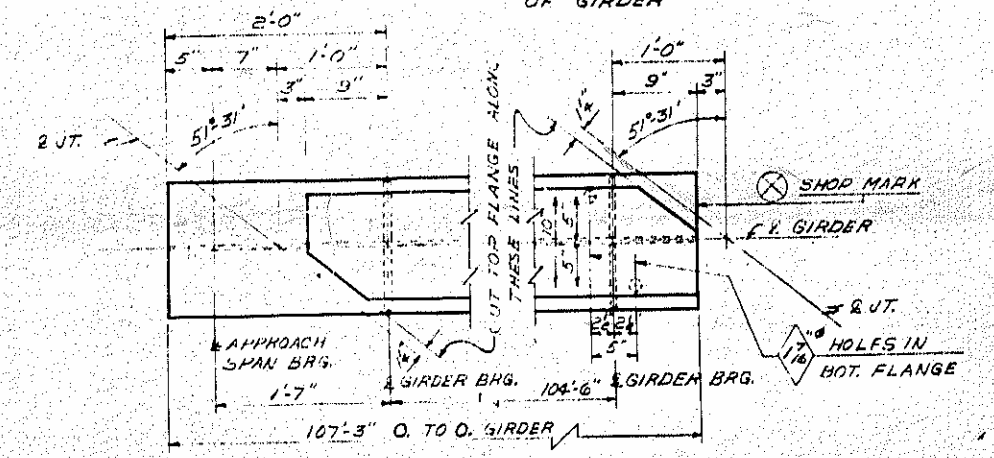
R. H. Higgins

RD. ROAD REGION	STATE	PROJECT NO.
3	N.C.	8,17903
F. A. PROJECT I-77-1(2)63		
Sheet No. 160 Total Sheets 194		

unable to check cover R on Girders because of I-77 Traffic.



TOP FLANGE STUD DETAILS
STUDS TO BE PLACED NORMAL TO LONGITUDINAL & OF GIRDER



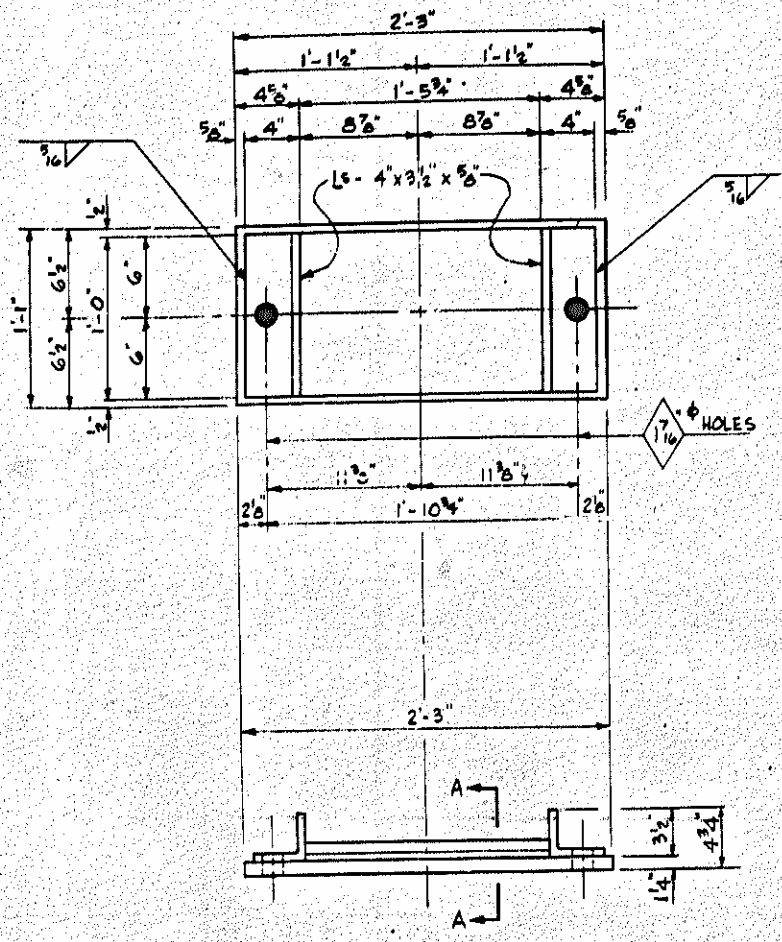
PART PLAN - SHOWING TOP FLANGE CUT
TYPICAL ALL GIRDERS

NOTE: IF GIRDER BEARING PLATE DETAILS FOR PLATES TO BE ATTACHED TO GIRDERS.

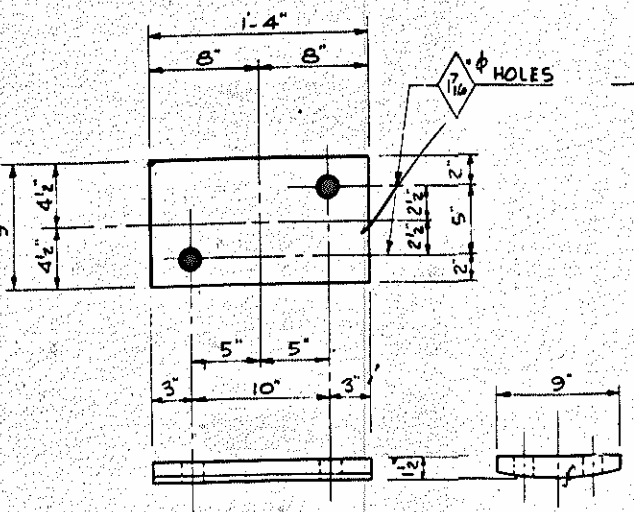
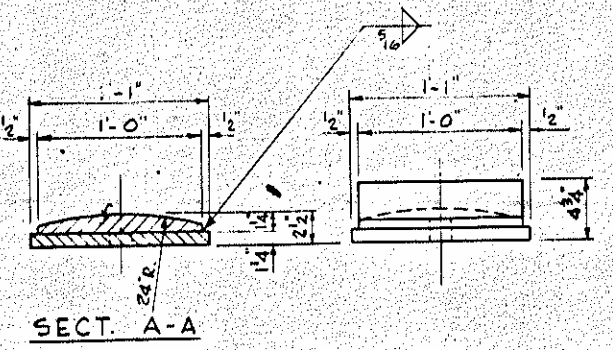
PROJECT No. 8,17903
YADKIN COUNTY
STATION: 392 + 41.03 - L.S.

STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION	
GIRDER MAKEUP	
JUNE	1962
	5-54
	67

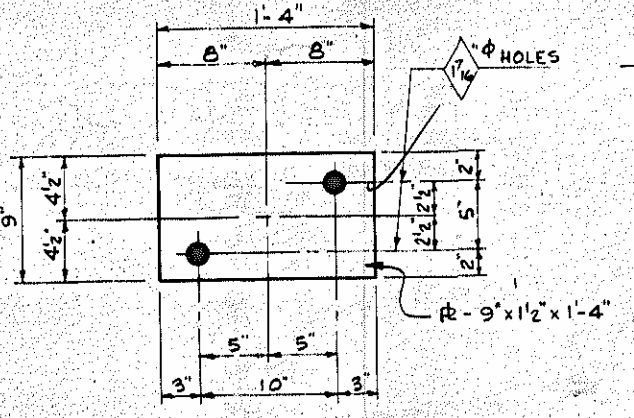
DRAWN BY D. J. PHILLIPS DATE JUNE 1962
CHECKED BY R. H. Higgins DATE Sept. 1962
R. H. Higgins



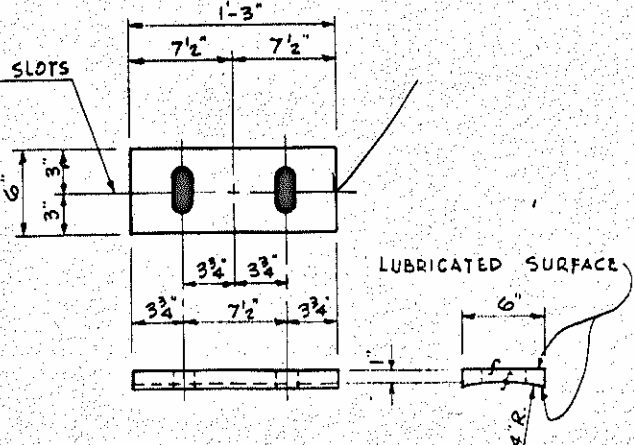
MASONRY PLATE ASSEMBLY MPI @ BT. #2 & #4
8 REQ'D.



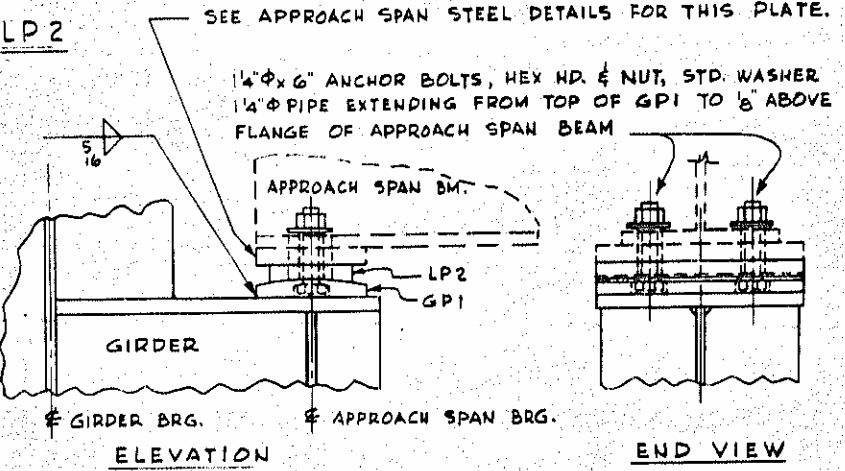
SOLE PLATE - SP2
8 REQ'D.



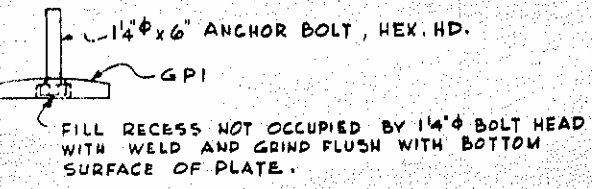
MASONRY PLATE - MP2
8 REQ'D.



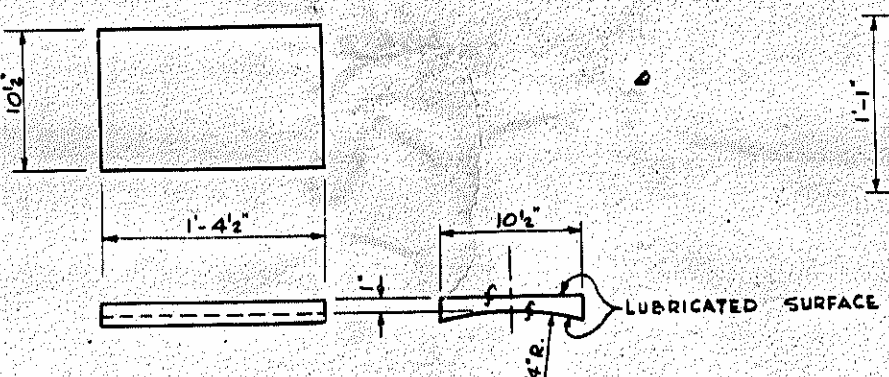
SELF-LUBRICATING PLATE-LP2
8 REQ'D.
SAME NOTE AS LPI APPLIES TO LP2.



ASSEMBLED PLATES - LP2, GPI

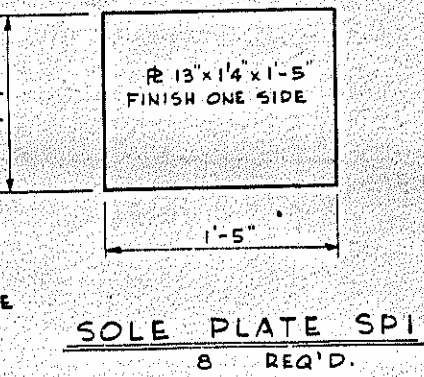


WELDING ANCHOR BOLT TO GPI

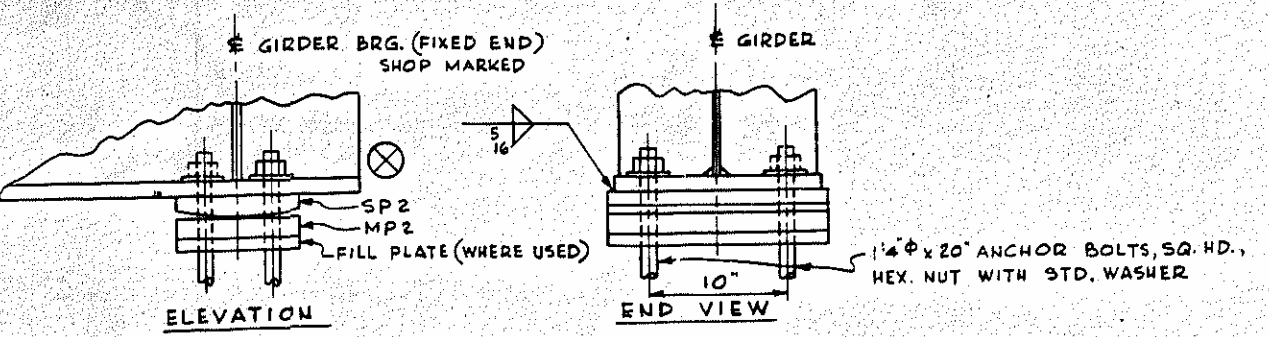


SELF-LUBRICATING PLATE - LPI
8 REQ'D.

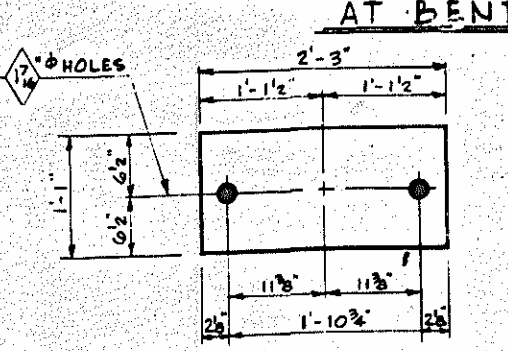
NOTE: THIS PLATE SHALL BE AN OILLESS SELF-LUBRICATING BRONZE BEARING PLATE OF APPROVED QUALITY.



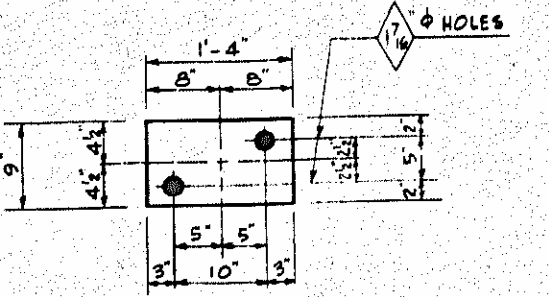
SOLE PLATE SPI
8 REQ'D.



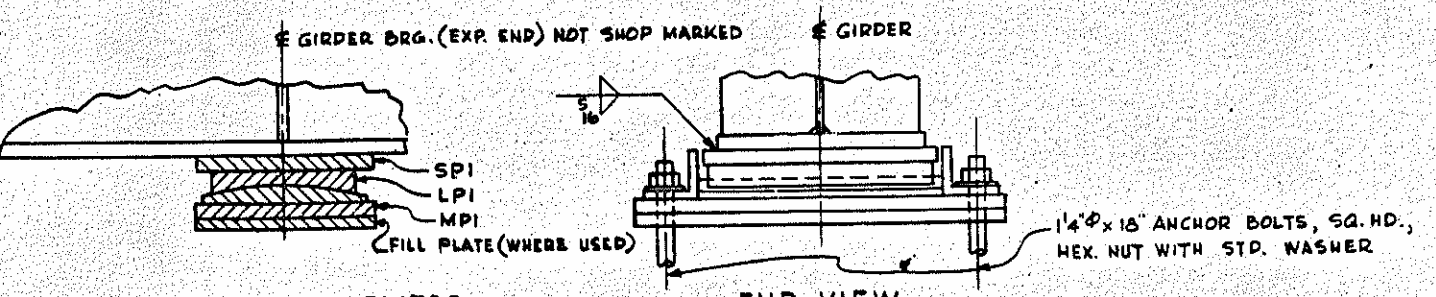
ASSEMBLED PLATES - SP2, MP2
AT BENT #3



FILL PLATE - FPI
REQ'D.
1 FPI - 15" x 7/16" x 2'-3"



FILL PLATES - FP2, FP3, FP4
REQ'D.
1 FP2 - 9" x 1/16" x 1'-4"
3 FP3 - 9" x 3/8" x 1'-4"
1 FP4 - 9" x 5/16" x 1'-4"

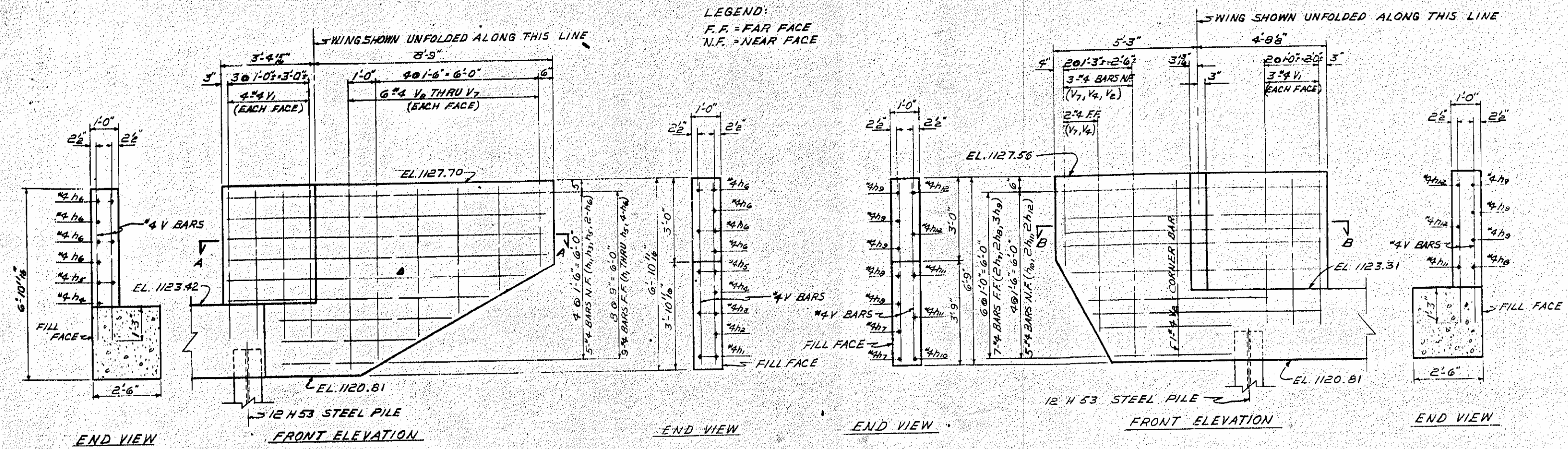


SECTION THRU PLATES
ASSEMBLED PLATES - SPI, LPI, MPI
AT BENTS #2 OR #4

PROJECT No. 8.17903
YADKIN COUNTY
STATION: 392+41.03 1/3

DATE		STATE OF NORTH CAROLINA	
BY		STATE HIGHWAY COMMISSION	
NO.		RALEIGH	
DATE		GIRDER BEARING PLATES	
BY		JUNE 1962	
NO.		5-55	
		67	

LEGEND:
 F.F. = FAR FACE
 N.F. = NEAR FACE



BILL OF MATERIAL

END BENT NO. 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	8	#10	E	34'-7"	1190
b2	4	#10	E	44'-5"	764
b3	4	#10	E	24'-9"	426
b4	4	#8	STR.	32'-9"	350
b5	12	#4	STR.	21'-10"	175
b6	16	#4	STR.	2'-2"	23
b7	9	#6	S	5'-3"	71
b8	3	#6	S	11'-1"	50
s1	5#	#4	E	2'-11"	105
s2	5#	#4	E	7'-3"	262
h1	2	#4	E	2'-6"	3
h2	1	#4	E	4'-1"	3
h3	2	#4	E	5'-9"	8
h4	1	#4	E	9'-1"	6
h5	2	#4	E	10'-9"	14
h6	6	#4	E	11'-5"	46
h7	2	#4	E	7'-1"	3
h8	2	#4	E	7'-2"	6
h9	3	#4	E	5'-0"	10
h10	1	#4	E	5'-2"	3
h11	2	#4	E	7'-4"	10
h12	2	#4	E	8'-2"	11
v1	1#	#4	STR.	5'-4"	50
v2	4	#4	STR.	6'-5"	17
v3	2	#4	STR.	6'-2"	8
v4	4	#4	STR.	5'-4"	14
v5	2	#4	STR.	4'-6"	6
v6	2	#4	STR.	3'-8"	5
v7	2	#4	STR.	2'-10"	2

Reinforcing Steel lbs. 3,647
 Class A Conc. cu yds. 19.4
 12 H 53 Steel Piles
 No. = 10 Lin. Ft. = 400

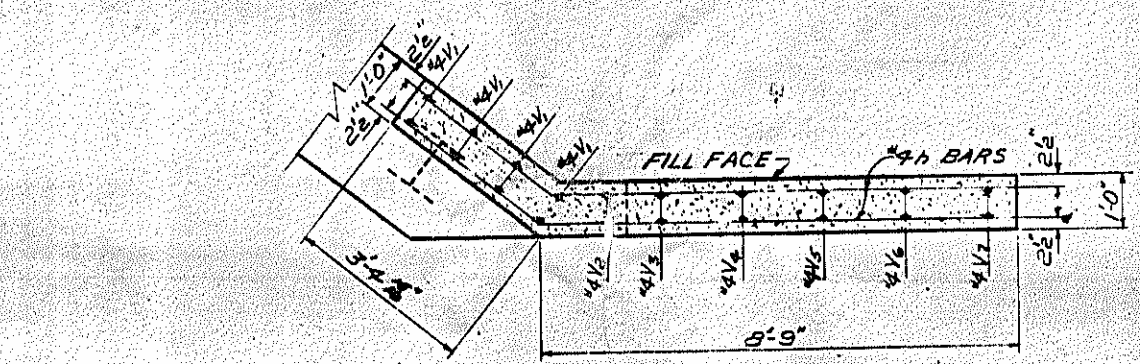
PROJECT NO. 817903
YADKIN COUNTY
STATION: 392+41.03-23-

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
DALLEN

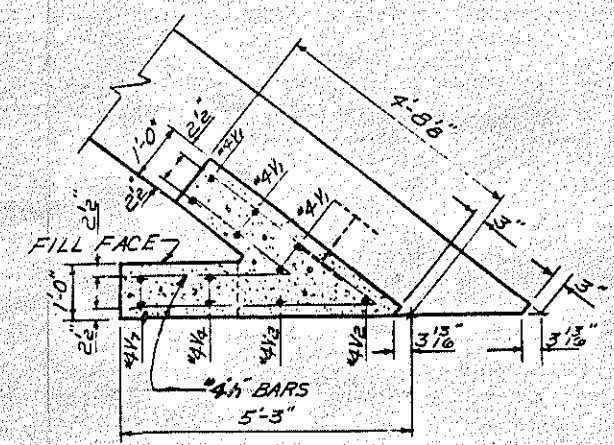
END BENT NO. 1

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

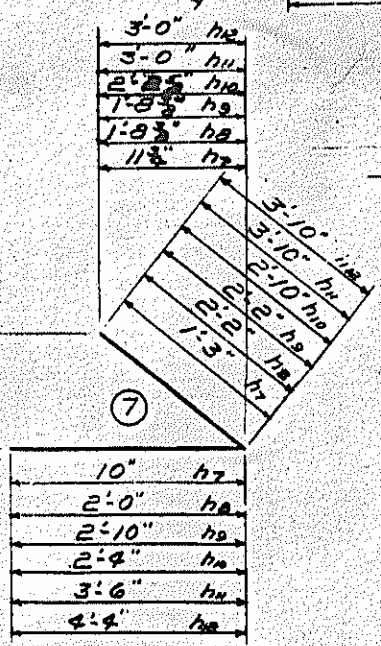
JULY 1962
 SHEET NO. 67



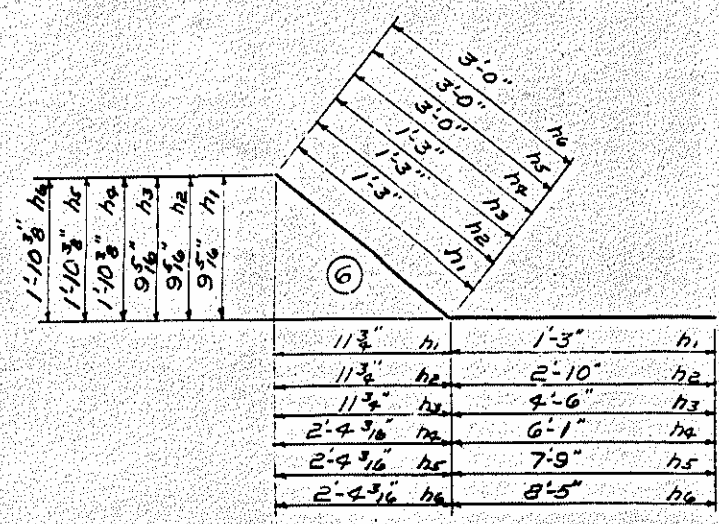
SECTION A-A



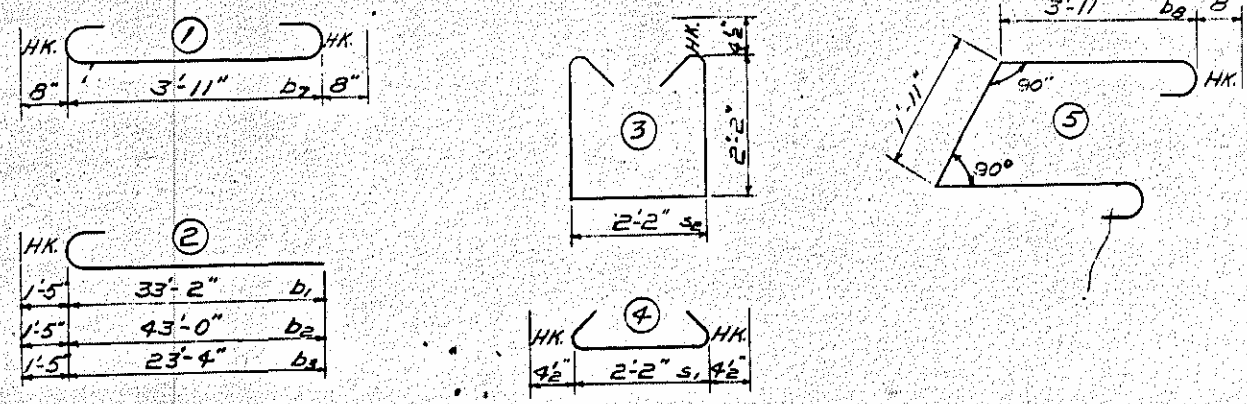
SECTION B-B



WING W1

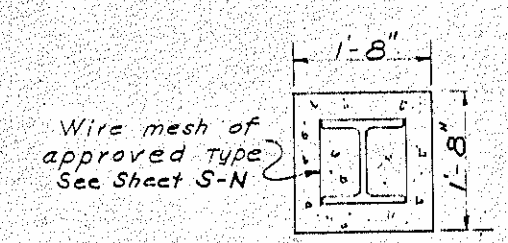
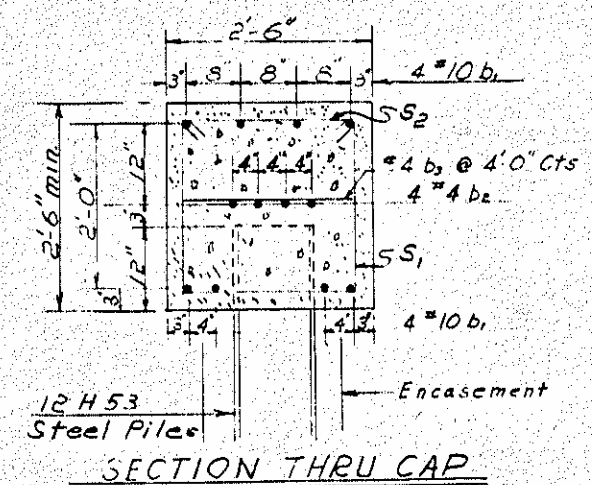
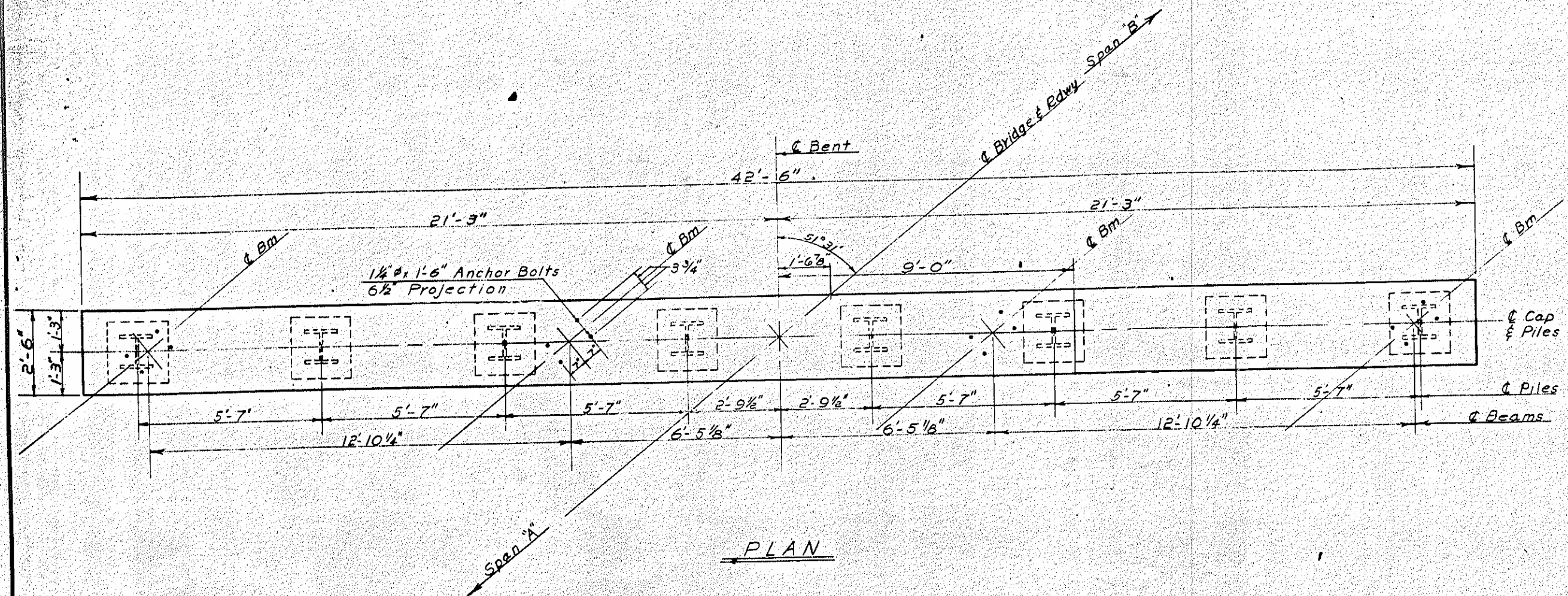


WING W2



BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.



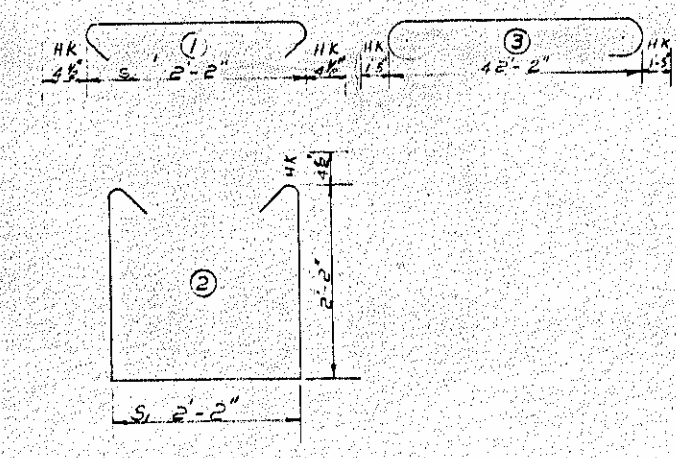
BILL OF MATERIAL FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b ₁	3	10	3	45'-0"	1549
b ₂	6	4	Str	21'-9"	116
b ₃	11	4	Str	2'-2"	16
S ₁	30	4	2	7'-3"	145
S ₂	44	4	1	2'-11"	86

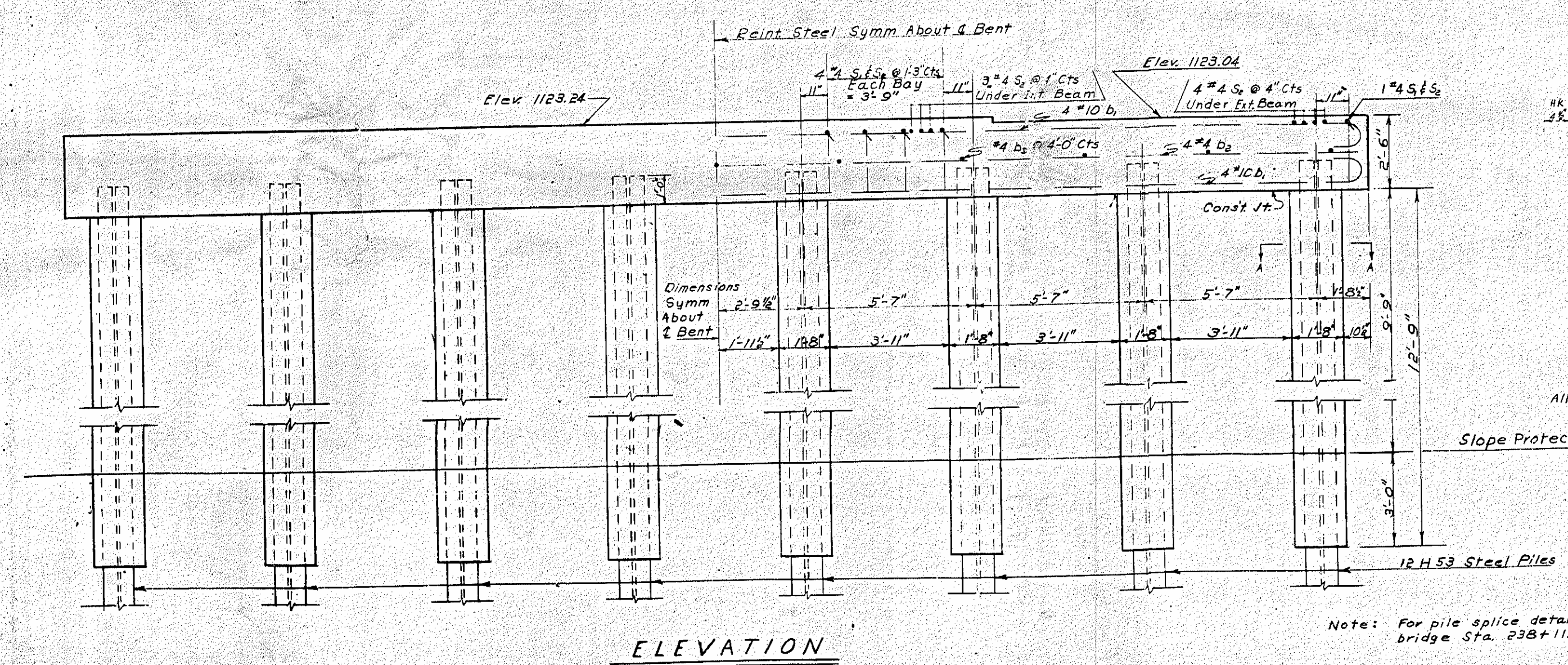
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

Reinforcing Steel lbs. 1912
 Class A Concrete C.Y. 20.5
 12" @ 53" Steel "H" Piles N^o 8
 12" @ 53" Steel "H" Piles L.F. 320

Quantity displaced by piles has been deducted from concrete.
PROJECT NO. 8.17903
YADKIN COUNTY
STATION: 392+41.03



BAR TYPES
 All bar dimensions are out to out.



Note: For pile splice detail see bridge Sta. 238+11.75 L3

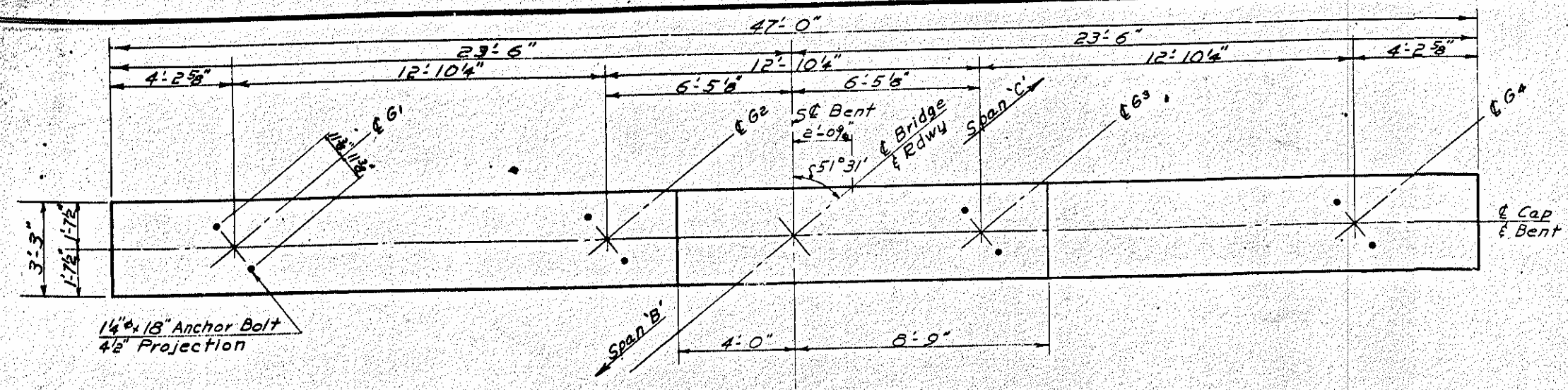
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

BENT NO. 1

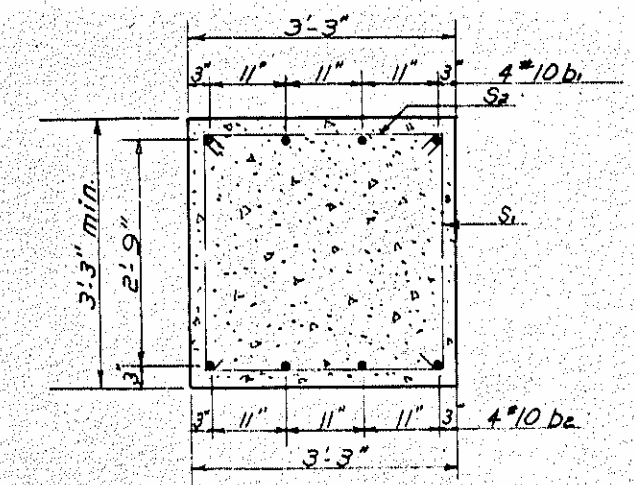
JULY 1962

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

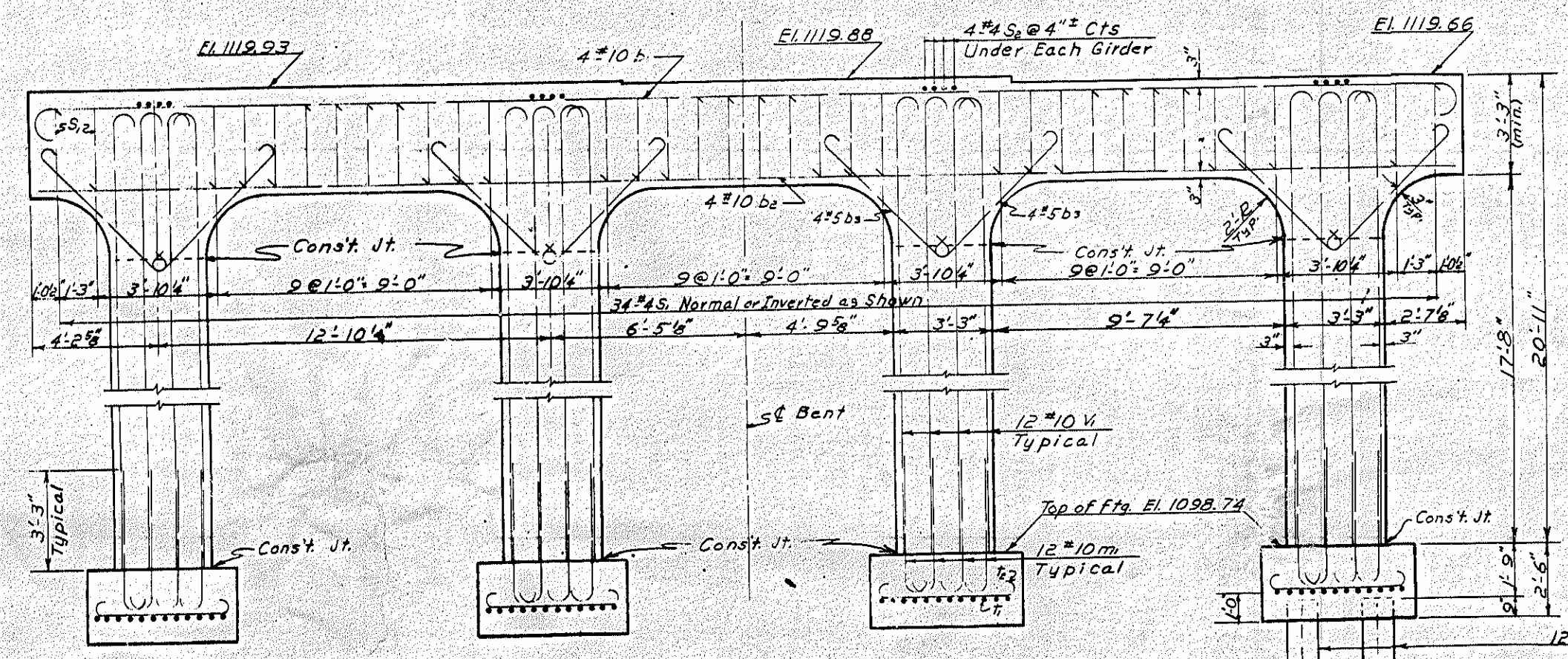
5-58
67



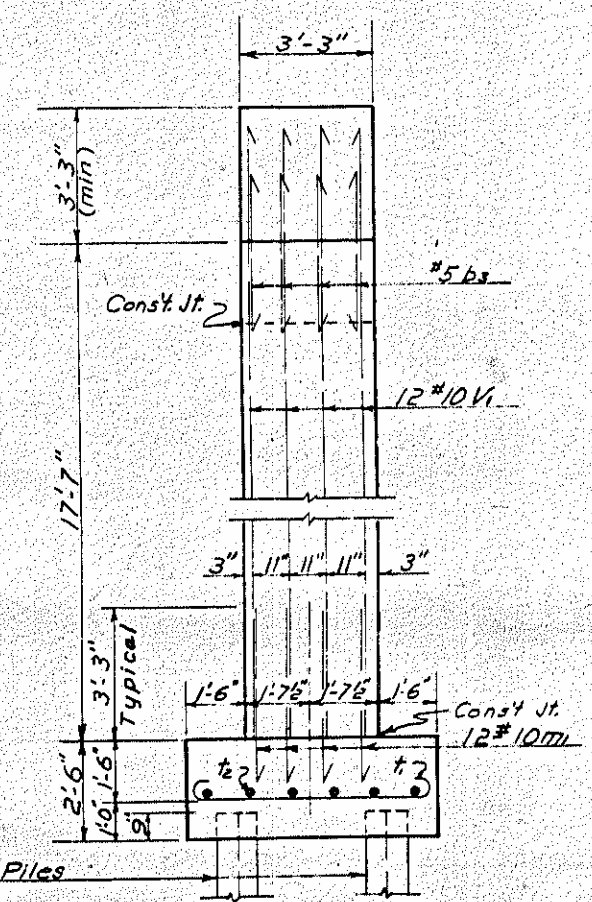
PLAN



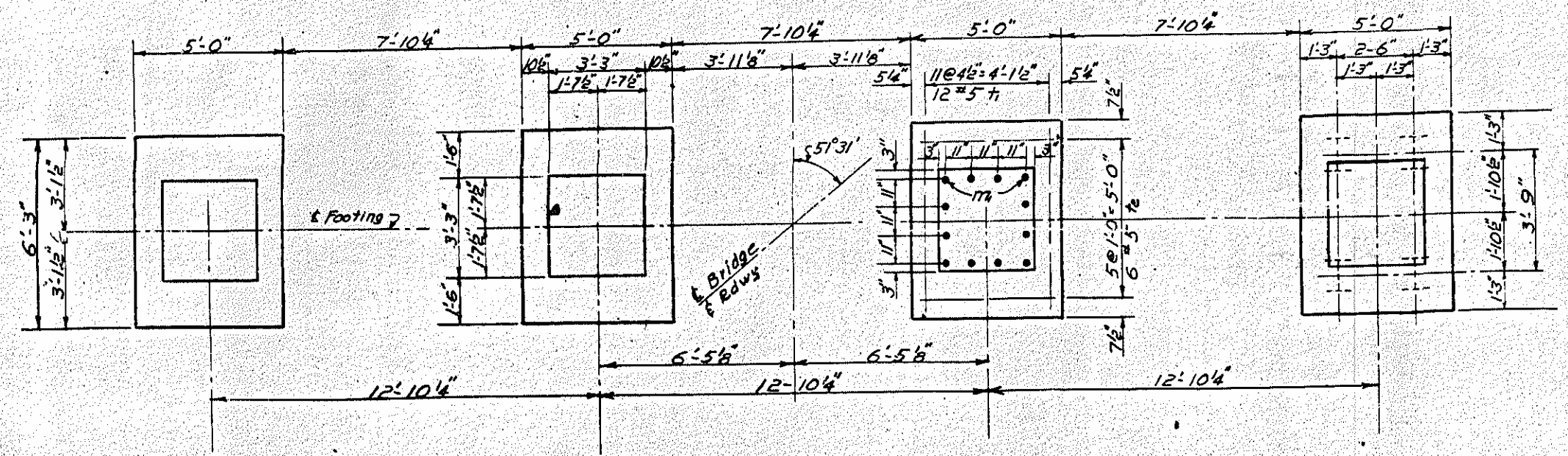
SECTION THRU CAP



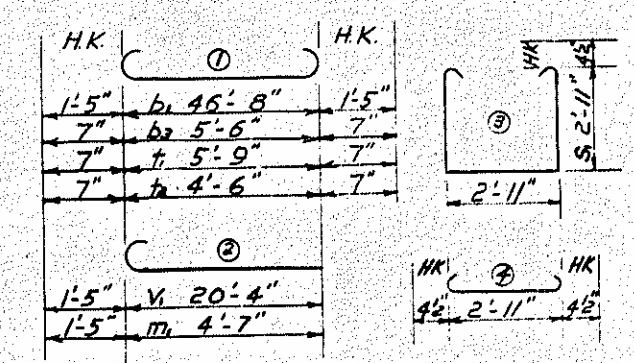
ELEVATION



RIGHT END VIEW



FOOTING PLAN



BAR TYPES
All Bar Dimensions Are Out to Out

BILL OF MATERIAL FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b ₁	4	10	1	49'-6"	852
b ₂	4	10	5Pr	46'-8"	803
b ₃	32	5	1	6'-8"	223
v ₁	48	10	2	21'-9"	4492
m ₁	48	10	2	6'-0"	1239
t ₁	48	5	1	6'-11"	346
t ₂	24	5	1	5'-8"	142
s ₁	34	4	3	9'-6"	216
s ₂	16	4	4	3'-8"	39

Reinforcing Steel lbs. 8352
 Class A Concrete Cu Yds. 59.1
 12 H 53 Steel Piles No. 16
 12 H 53 Steel Piles Lin Ft. 485

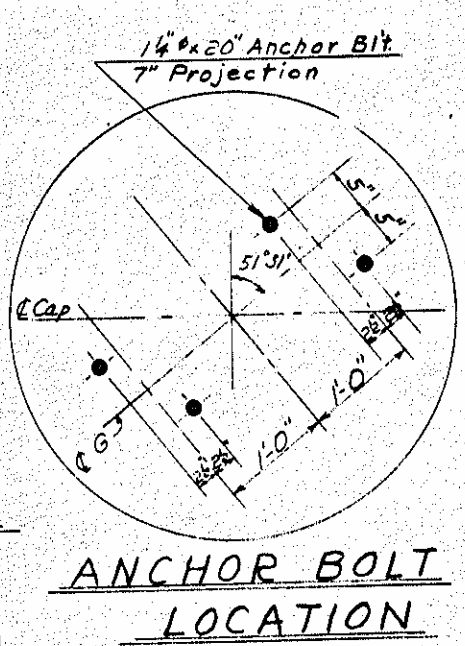
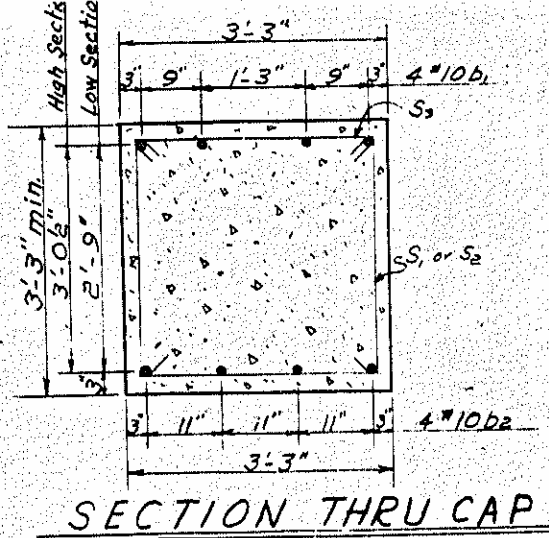
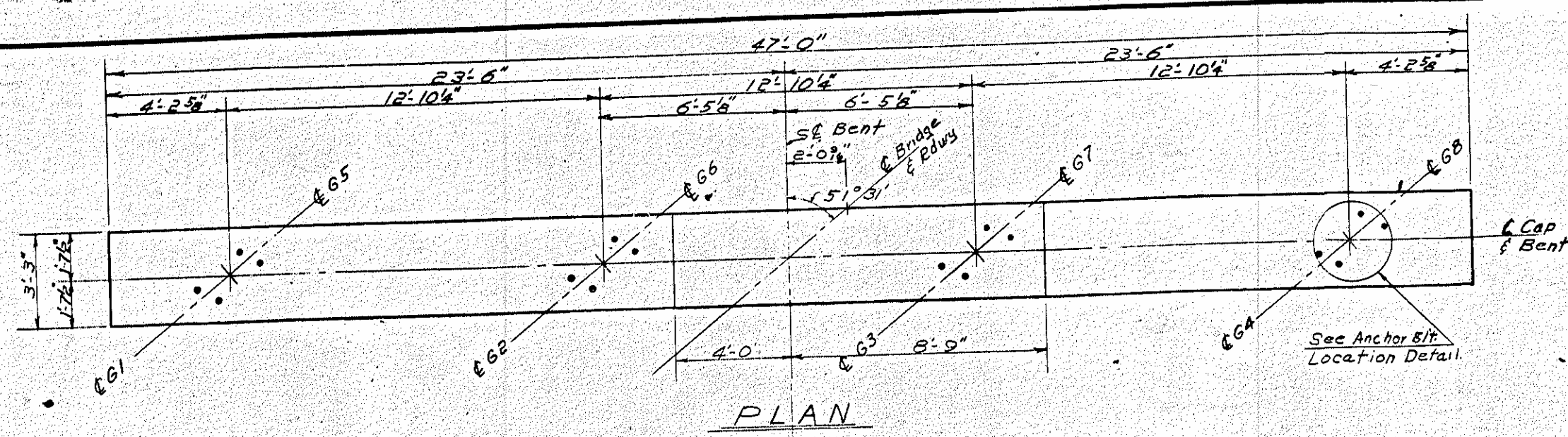
PROJECT NO. 8.17903
 YADKIN COUNTY
 STATION: 392+41.03.13

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

BENT No 2

JULY 1962

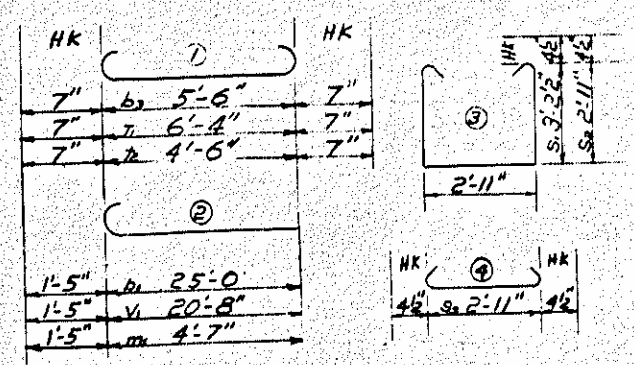
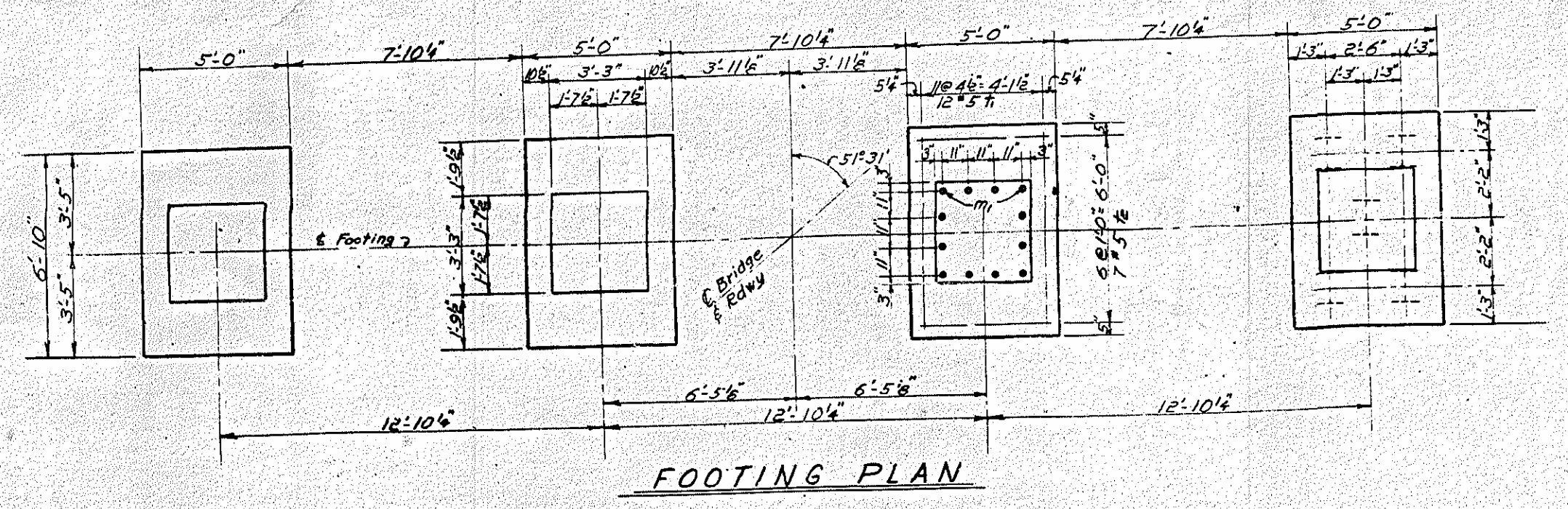
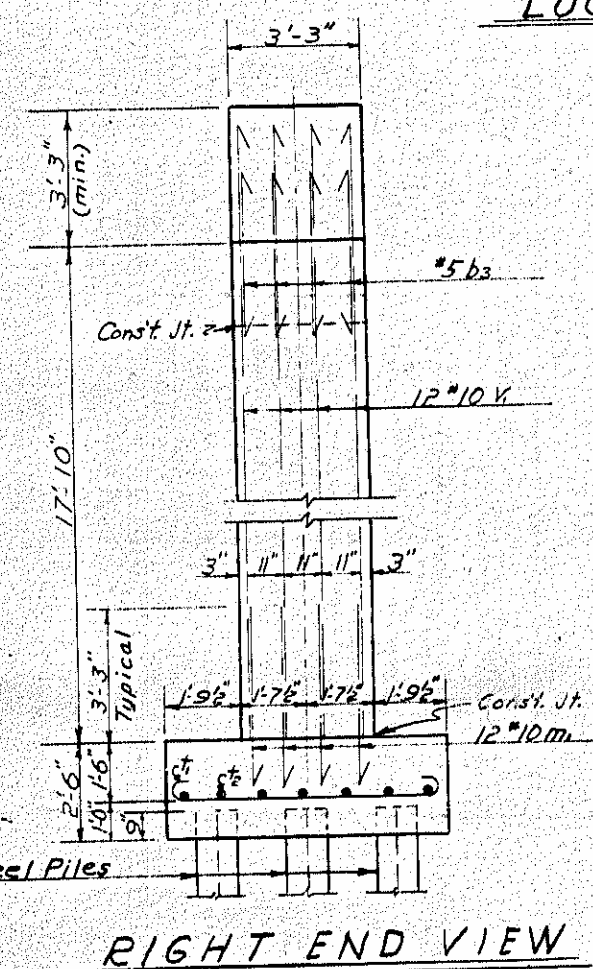
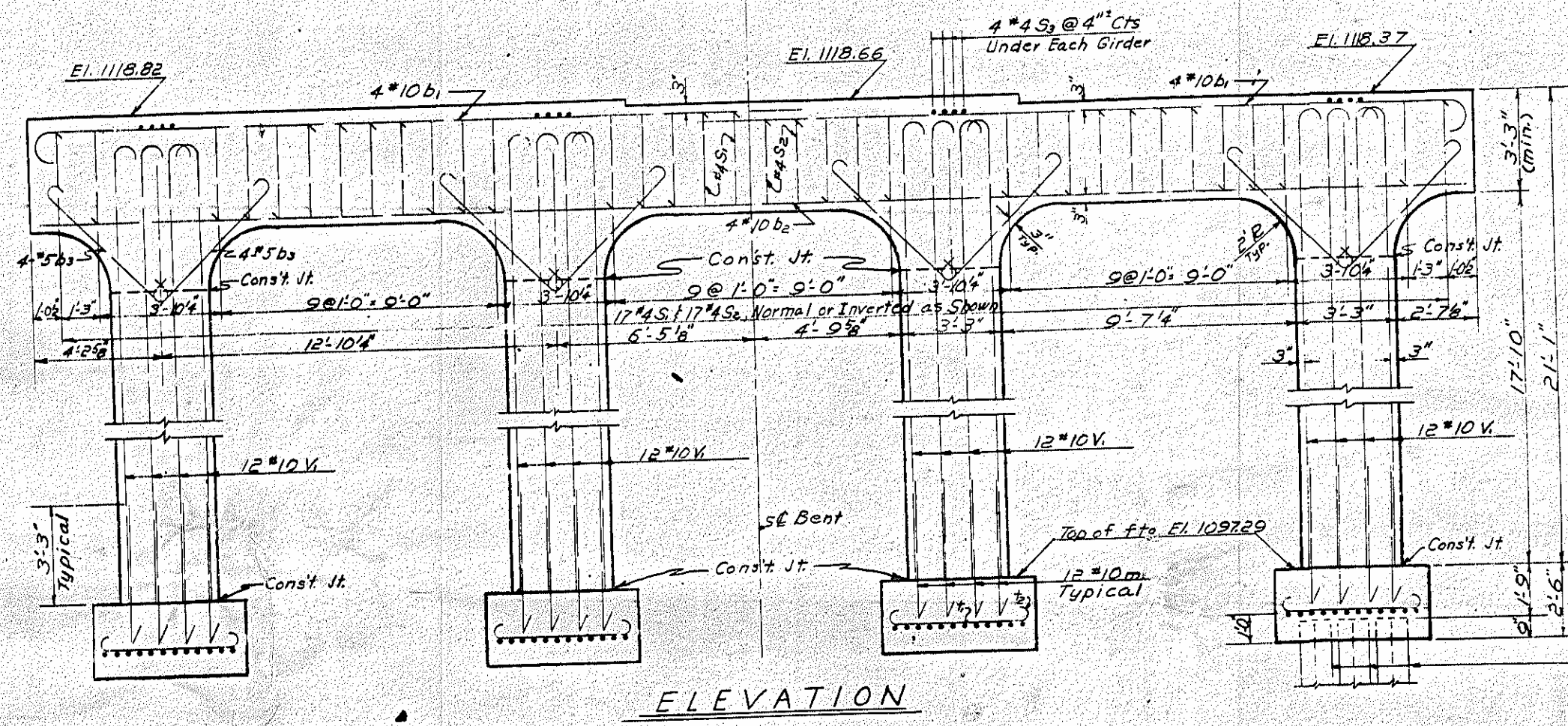
REVISIONS					DATE
NO.	BY	DATE	NO.	BY	
1					5-59
2					67



BILL OF MATERIAL FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b	3	10	2	26'-5"	909
b	4	10	Str.	46'-8"	809
b	32	5	1	6'-8"	223
v	48	10	2	22'-7"	4561
m	48	10	2	6'-0"	1239
f	48	5	1	7'-6"	375
h	28	5	1	5'-8"	165
s	17	4	3	10'-1"	114
s	17	4	3	9'-6"	108
s	16	4	4	3'-8"	39

Reinforcing Steel	lbs.	8536
Class A Concrete	Cu. Yds.	613
12 H53 Steel Piles	Nr.	20
12 H53 Steel Piles	Lin. Ft.	605



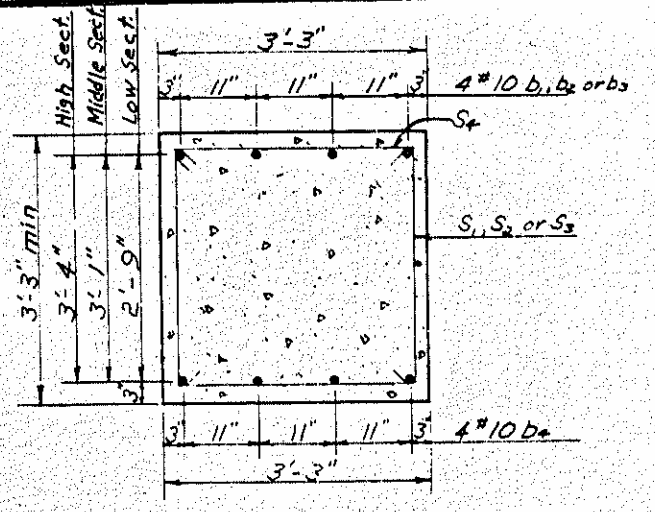
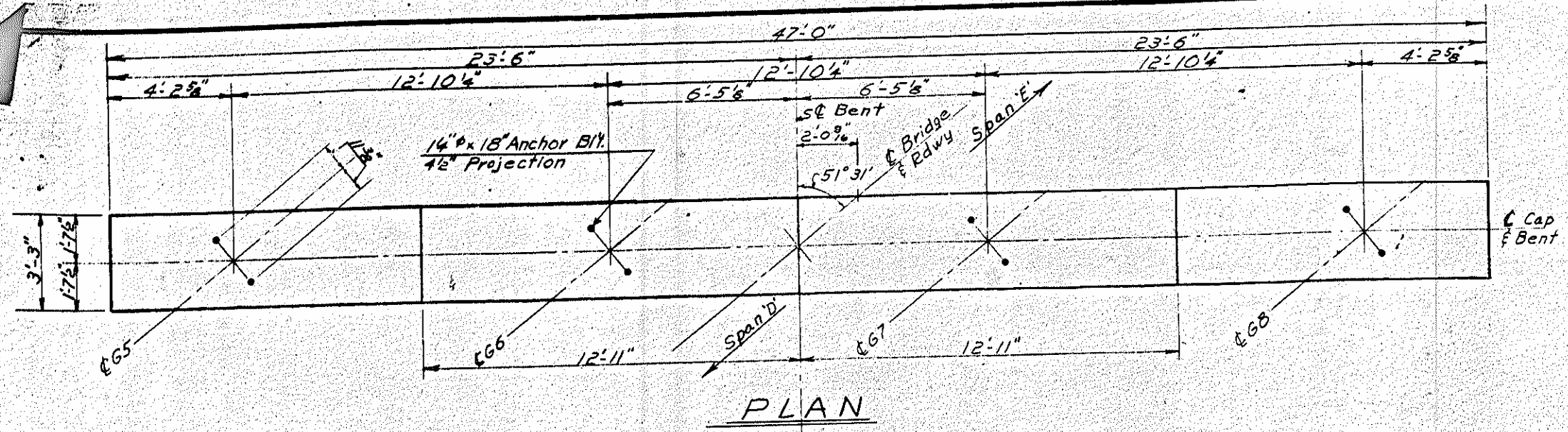
BAR TYPES
 All Bar Dimensions Are Out to Out

PROJECT NO. 8.17903
YADKIN COUNTY
STATION: 392+41.03.13

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

BENT NO 3
JULY 1962

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

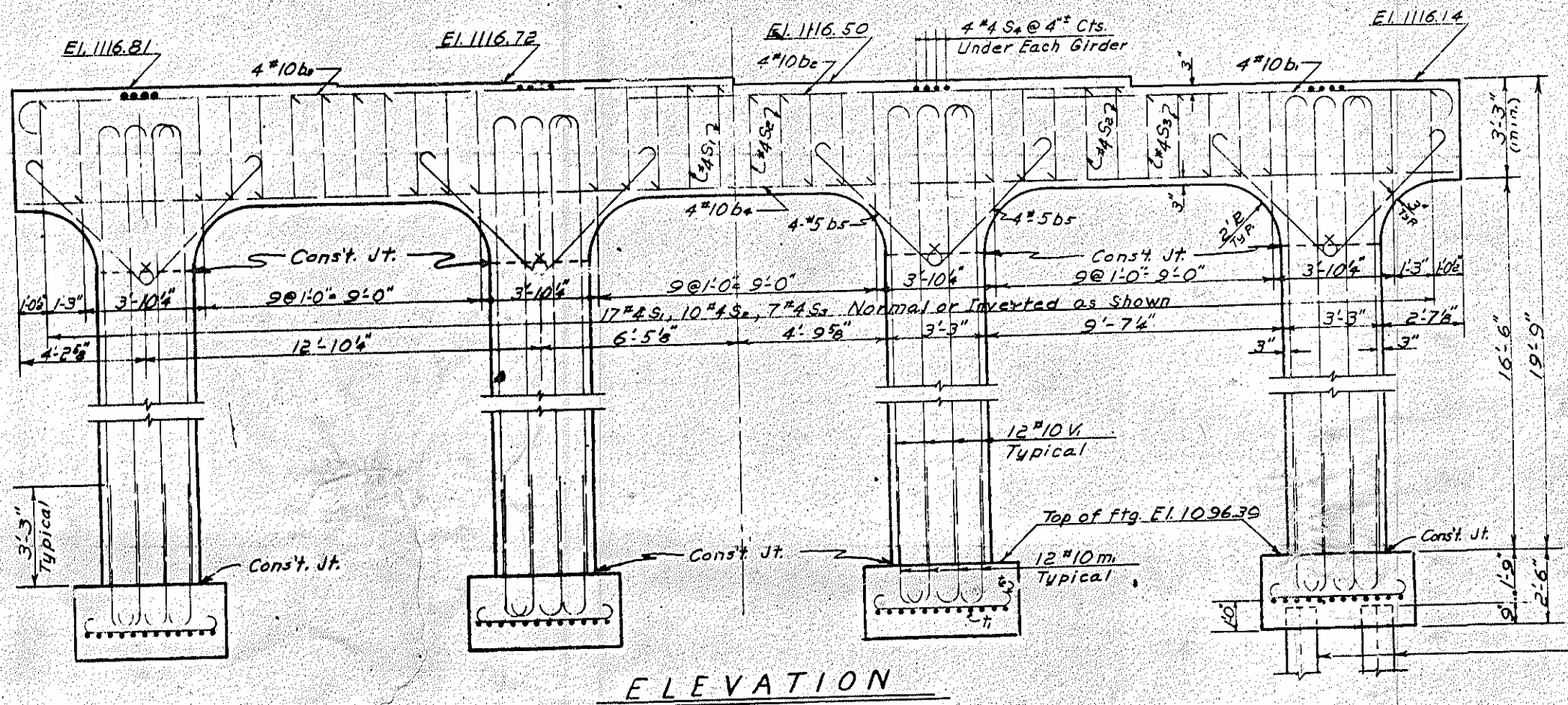


SECTION THRU CAP

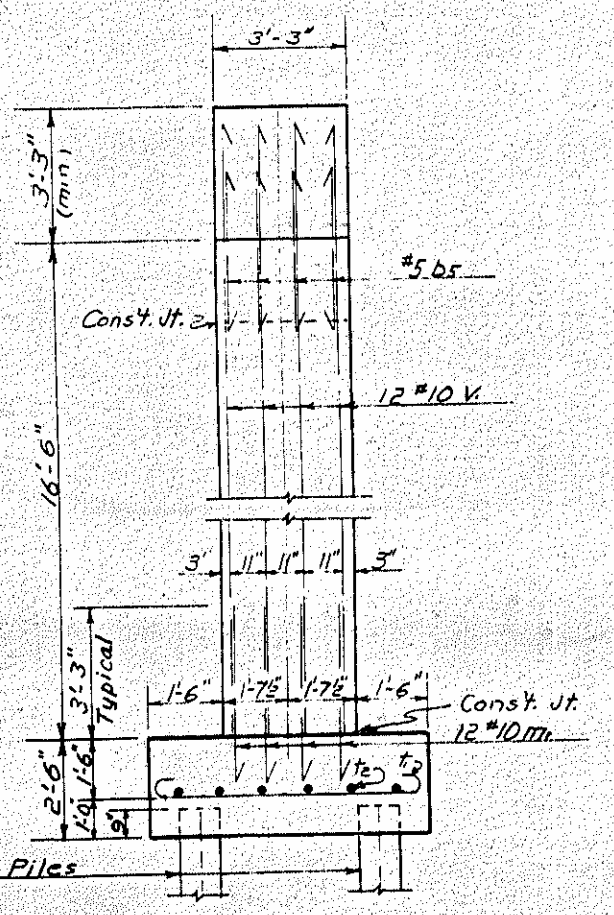
BILL OF MATERIAL FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	4	10	2	15'-3"	262
b2	4	10	Str	16'-2"	278
b3	4	10	2	24'-7"	423
b4	4	10	Str	46'-8"	803
b5	32	5	1	6'-8"	222
v	48	10	2	20'-9"	1286
m	48	10	2	6'-0"	1239
t	48	5	1	6'-11"	346
h	24	5	1	5'-8"	142
s1	17	4	3	10'-8"	121
s2	10	4	3	10'-2"	68
s3	7	4	3	9'-6"	44
s4	16	4	4	3'-8"	39

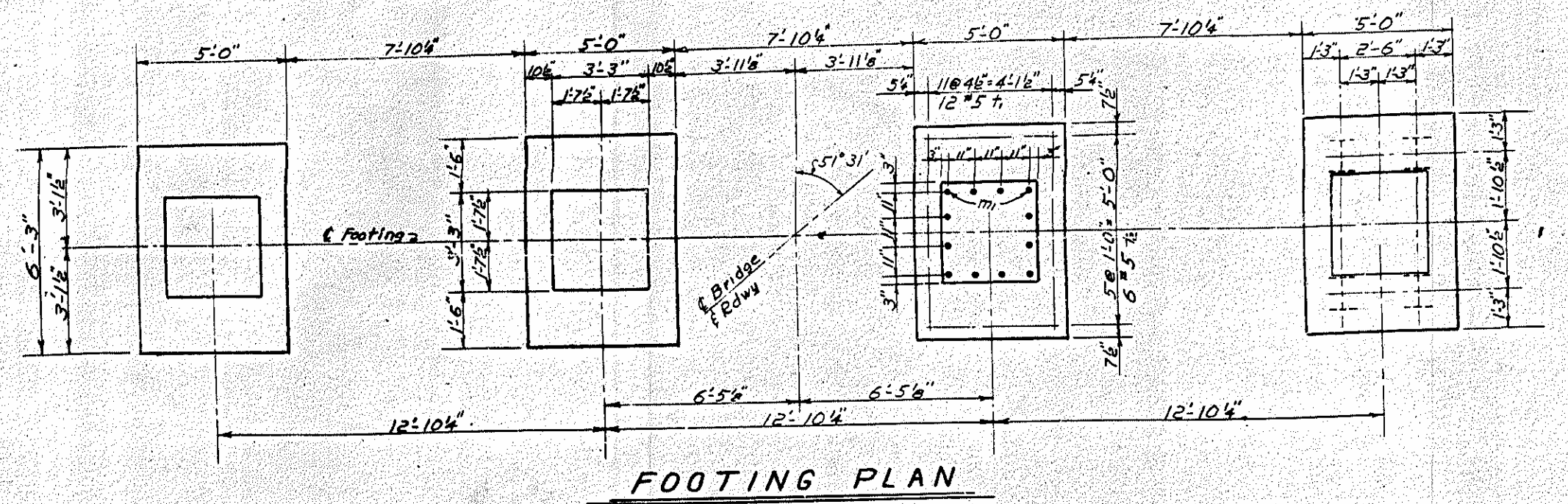
Reinforcing Steel lbs 8273
 Class A Concrete Cu.Yds 58.5
 12 H53 Steel Piles No 16
 12 H53 Steel Piles Lin.Ft 245



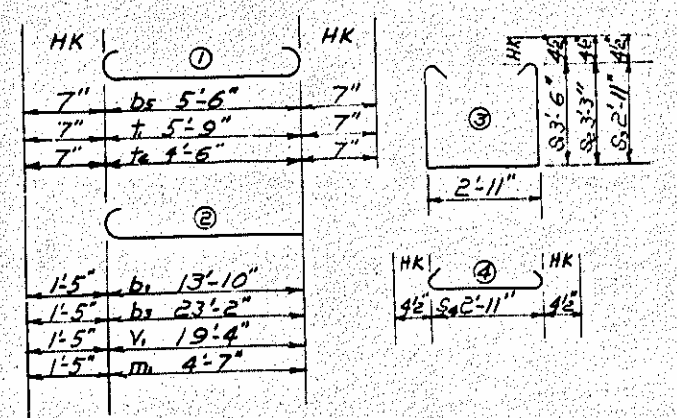
ELEVATION



RIGHT END VIEW



FOOTING PLAN



BAR TYPES
 All Bar Dimensions Are Out to Out

PROJECT No. 617903
 YADKIN COUNTY
 STATION: 392+41.03 LB

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

BENT No 4

JULY 1962

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			4		

BILL OF MATERIAL FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b ₁	4	10	4	14'-11"	257
b ₂	4	10	Str	19'-3"	391
b ₃	4	10	4	17'-4"	298
b ₄	8	4	Str	21'-9"	116
b ₅	4	10	3	45'-0"	775
b ₆	11	4	Str	2'-2"	16
S ₁	42	4	1	2'-11"	82
S ₂	7	4	2	7'-3"	34
S ₃	12	4	2	8'-1"	65
S ₄	11	4	2	8'-7"	63

Reinforcing Steel lbs. 2037
 Class "A" Concrete C.Y. 21.5'
 12" @ 53" Steel "H" Piles No. B
 12" @ 53" Steel "H" Piles L.F. 280

*Quantity Displaced by Piles Has Been Deducted From Concrete

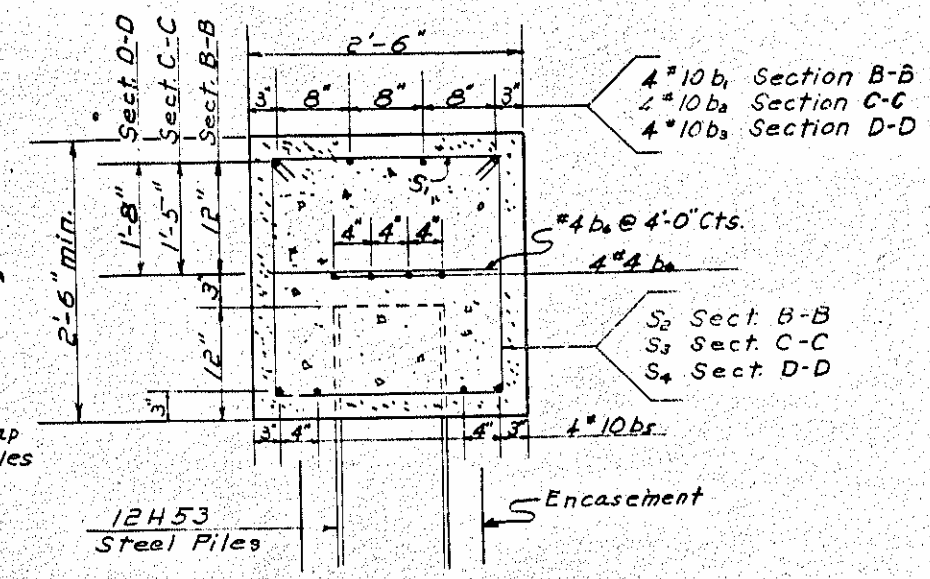
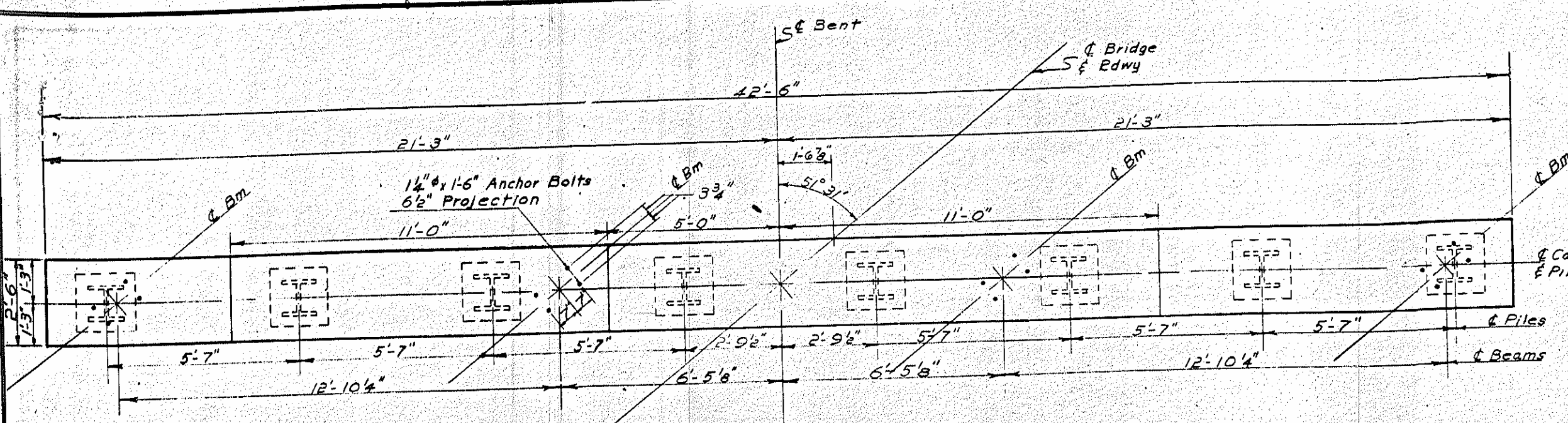
PROJECT NO. 8.17903
YADKIN COUNTY
STATION: 392+41.03 LB

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 RALEIGH

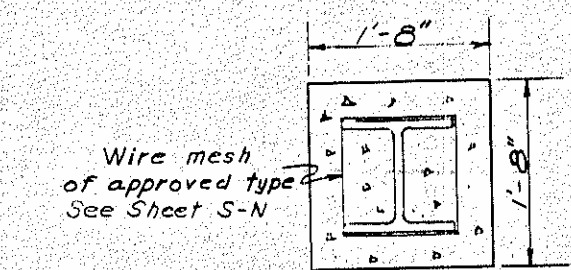
BENT NO 5

JULY 1962

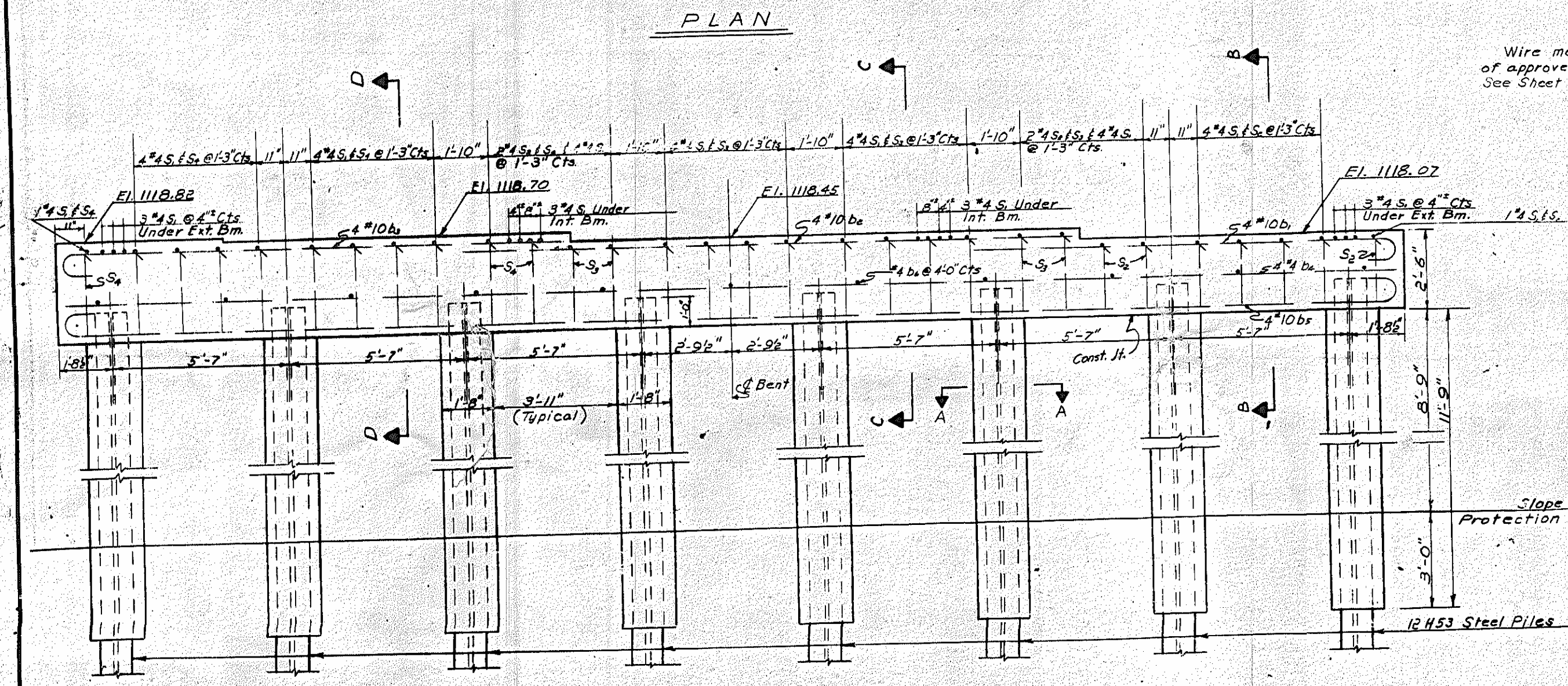
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		



SECTION THRU CAP

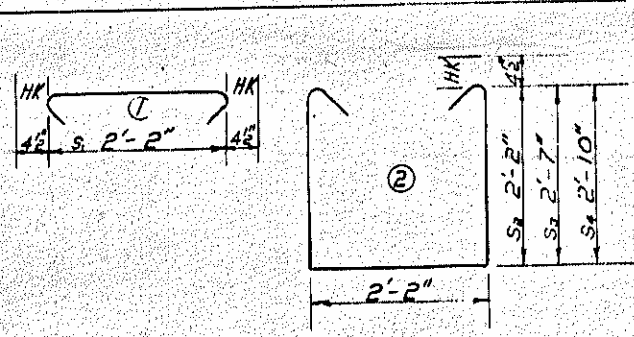


SECTION A-A



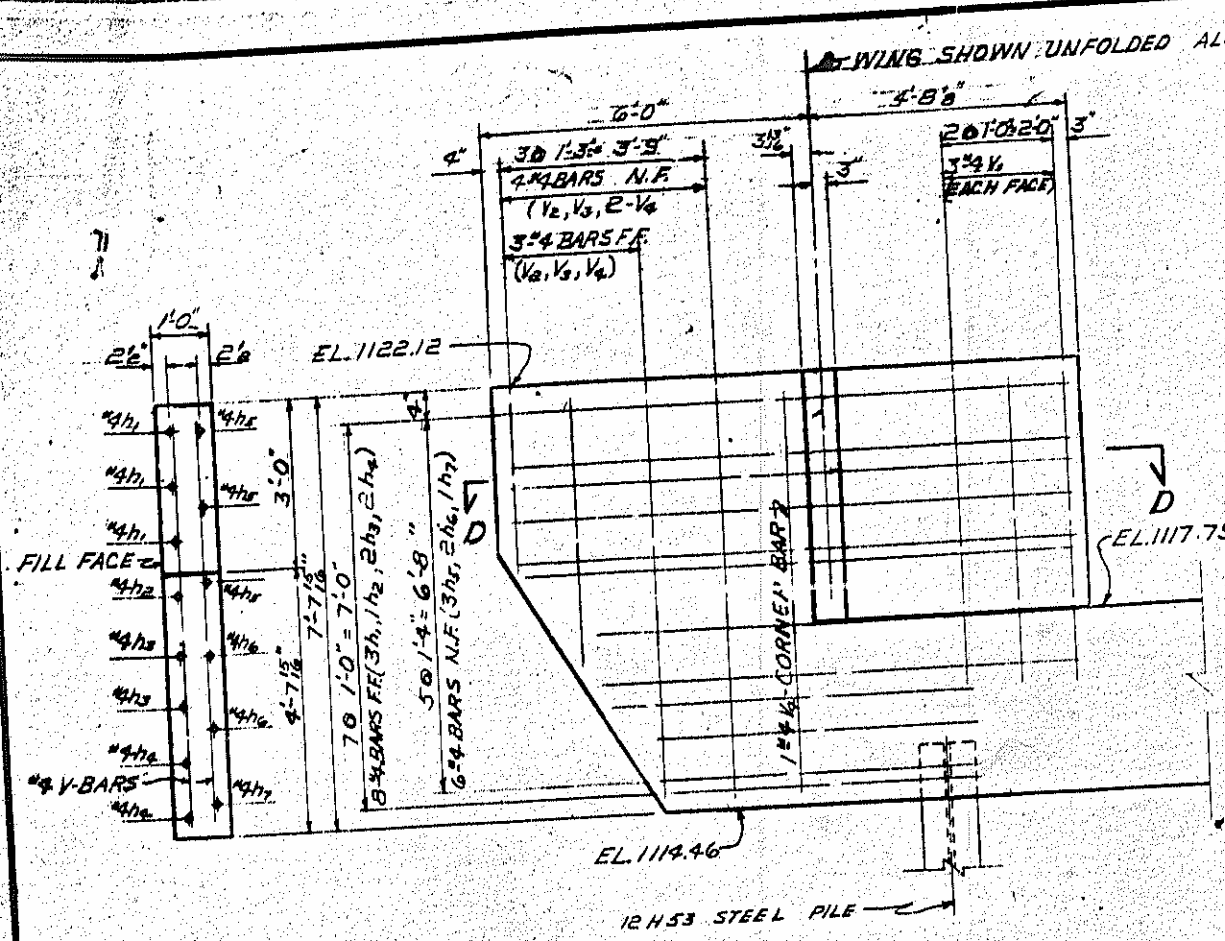
ELEVATION

Note: For Pile Splice Detail See Bridge Sta. 238+11.75 LB



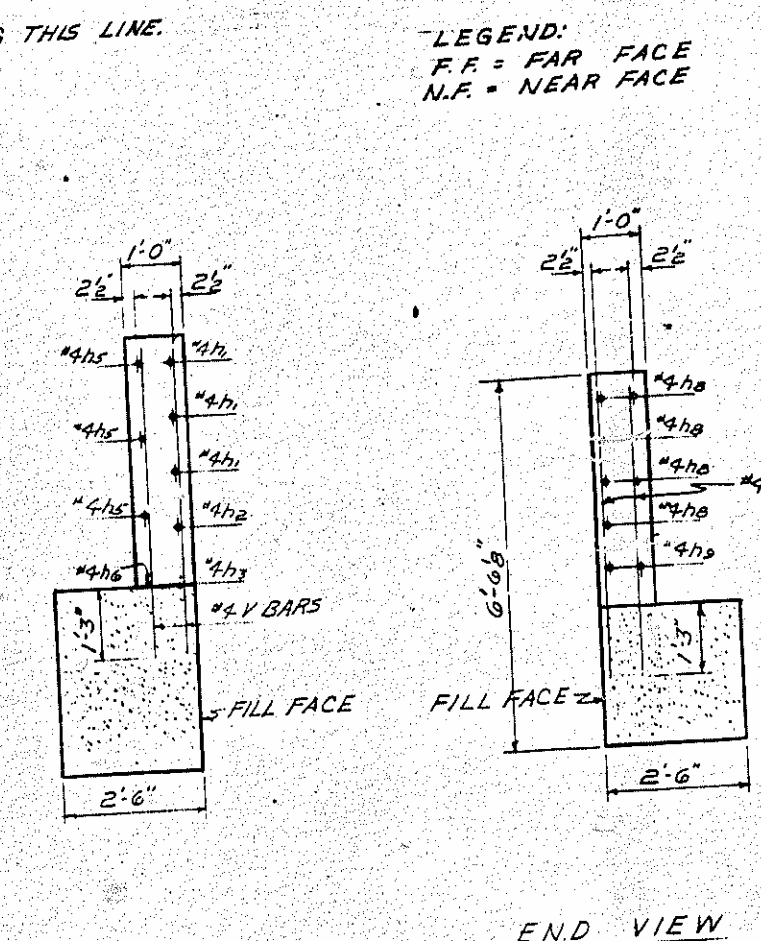
BAR TYPES

All Bar Dimensions Are Out to Out.



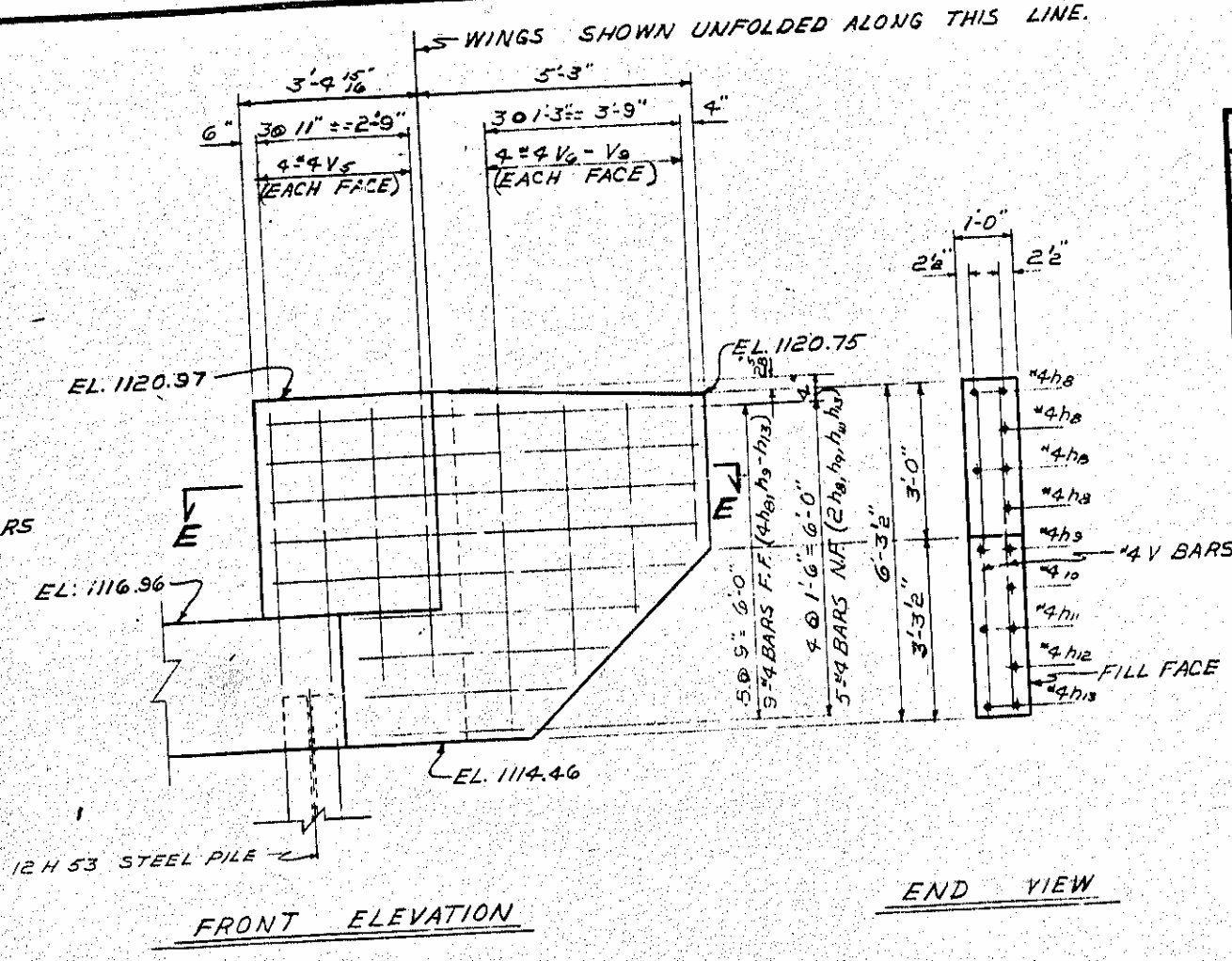
FRONT ELEVATION

END VIEW



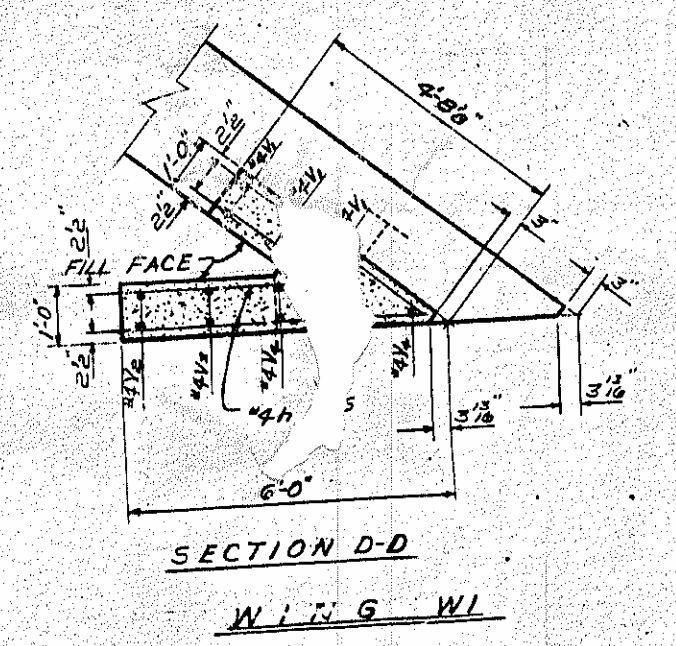
END VIEW

END VIEW



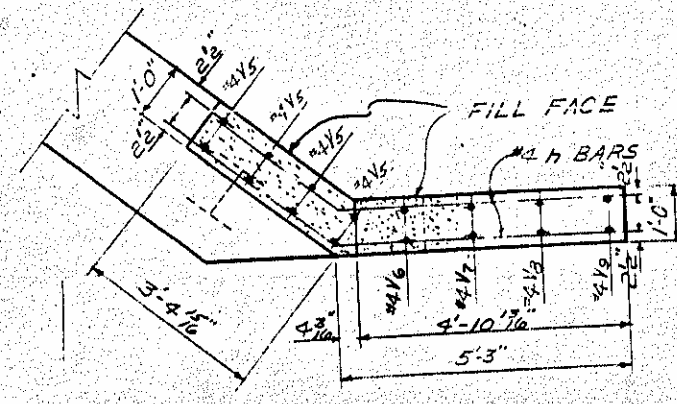
FRONT ELEVATION

END VIEW



SECTION D-D

WING W1

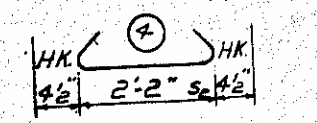
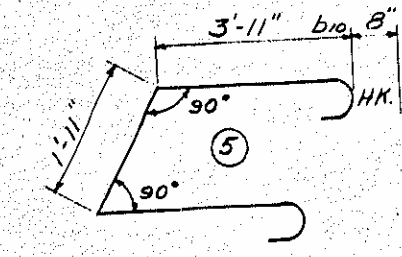
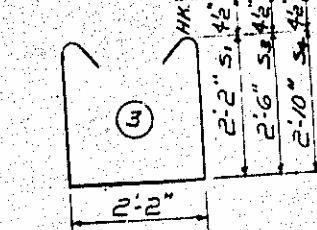
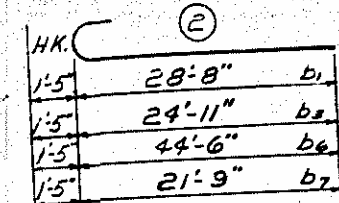
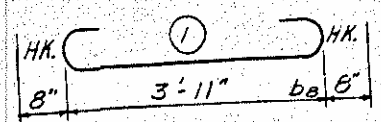


SECTION E-E

WING W2

1'-2 1/8"	h1
1'-2 1/8"	h2
1'-2 1/8"	h3
1'-2 1/8"	h4
1'-9 3/8"	h5
2'-3 3/8"	h6
2'-3 3/8"	h7
1'-6 1/8"	h8
1'-6 1/8"	h9
1'-6 1/8"	h10
1'-6 1/8"	h11
4'-10"	h12
4'-7"	h13
3'-10"	h14
3'-0"	h15
2'-2"	h16
1'-6 1/8"	h17

3'-0 1/8"	h1
3'-0 1/8"	h2
3'-0 1/8"	h3
1'-0 1/2"	h4
1'-9 3/8"	h5
1'-9 3/8"	h6
1'-9 3/8"	h7
3'-11"	h8
3'-11"	h9
3'-11"	h10
2'-10 3/4"	h11
2'-10 3/4"	h12
2'-10 3/4"	h13
3'-7"	h14
3'-3"	h15
2'-3"	h16
11"	h17
5'-3"	h18
3'-6"	h19
2'-6"	h20



BAR TYPES
 ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL					
END BENT NO. 2					
BAR NO.	SIZE	TYPE	LENGTH	WGHT	
b1	4	#10	2	30'-1"	518
b2	4	#10	STR.	16'-0"	275
b3	4	#10	2	26'-4"	453
b4	4	#8	STR.	32'-9"	350
b5	12	#4	STR.	21'-10"	175
b6	4	#10	2	45'-11"	790
b7	4	#10	2	23'-2"	399
b8	9	#6	1	5'-3"	71
b9	16	#4	STR.	2'-2"	23
b10	3	#6	5	11'-1"	50
s1	23	#4	3	7'-3"	111
s2	54	#4	2	2'-11"	105
s3	9	#4	3	7'-1"	98
s4	22	#4	3	9'-7"	126
v1	6	#4	STR.	5'-4"	21
v2	2	#4	STR.	2'-10"	4
v3	2	#4	STR.	4'-10"	6
v4	4	#4	STR.	7'-2"	18
v5	8	#4	STR.	5'-0"	27
v6	2	#4	STR.	5'-10"	8
v7	2	#4	STR.	3'-2"	7
v8	2	#4	STR.	3'-10"	5
v9	2	#4	STR.	2'-7"	3
h1	3	#4	6	5'-10"	12
h2	1	#4	6	5'-0"	4
h3	2	#4	6	4'-6"	6
h4	2	#4	6	2'-3"	3
h5	3	#4	6	9'-2"	18
h6	2	#4	6	7'-5"	10
h7	1	#4	6	6'-5"	4
h8	6	#4	7	7'-9"	31
h9	2	#4	7	7'-6"	10
h10	1	#4	7	5'-10"	4
h11	2	#4	7	5'-0"	7
h12	1	#4	7	4'-2"	3
h13	2	#4	7	3'-5"	5

PROJECT NO. 8.17903
 YADKIN COUNTY
 STATION: 392+41.03-73

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
END BENT NO. 2					
JULY 1962					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		
3			4		