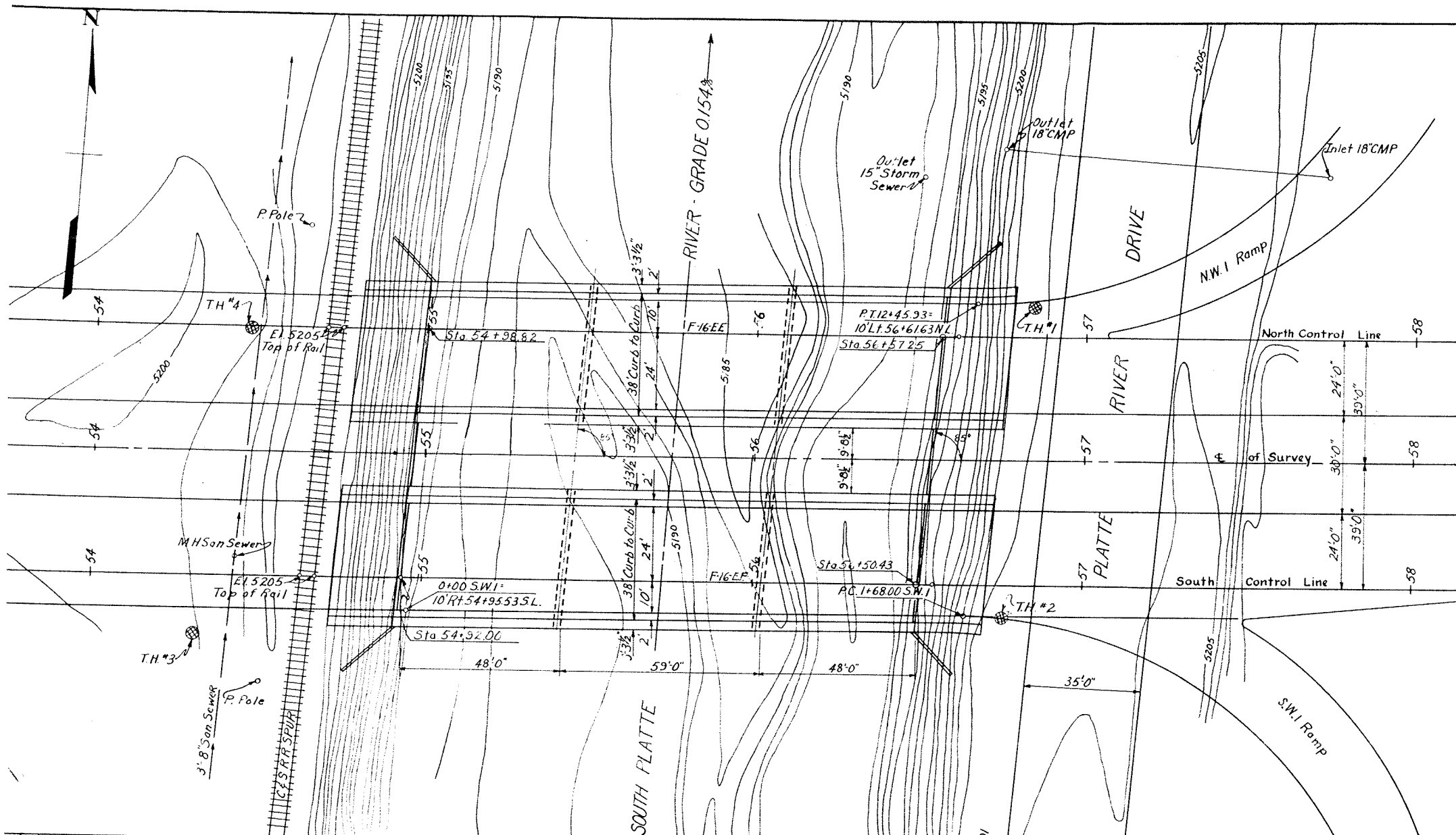


FED. ROAD DIV. NO.	DISTRICT	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U1002-2 (30) UNIT 1	4	



SUMMARY OF QUANTITIES (NORTH BRIDGE)

ITEM	DESCRIPTION	UNIT	SUPERSTR.	ABUT#1	PIER#2	PIER#3	ABUT#4	TOTAL	2 APPROACH @ SLABS
13c	Unclassified Excavation	Cu.Yd.						560	
14a	Dry Rock Excavation (Str.)	Cu.Yd.							
14b	Dry Common Excavation (Str.)	Cu.Yd.		65			85	150	
14c	Wet Rock Excavation (Str.)	Cu.Yd.							
14d	Wet Common Excavation (Str.)	Cu.Yd.		165	110	70	240	585	
16a	Structure Backfill (Class I)	Cu.Yd.		200	90	50	312	652	
16c	Mechanical Tamping	Hour		50	23	12	78	163	
18a	Station Yard Overhaul	Sta.Yd.							
18b	Yard Mile Overhaul	Yd.Mi.							
32a	Plant Mixed Asphaltic Surfacing	Ton	62.3					62.3	12.4
46a	Class "A" Concrete	Cu.Yd.	184.5	109.3	45.3	45.3	148.6	533	36
47	Reinforcing Steel (1% Overrun Included)	Lb.	26860	20240	6760	6760	23020	83640	4200
48	Structural Steel (1/2% added for Paint)	Lb.	153650		450	450		154550	
80c	Sheet Copper 32 oz.	Lb.	3					3	
89a	Drain Pipe 4" x 1'-6" (Conc. floor)	Each	7					7	
91b	Steel Railing	Lin.Ft.	345					345	
159	7 Ga. Metal Sheet Piling	Lin.Ft.		792			850	1642	
*	16 Ga. Galv. Sheet Metal	Sq.Ft.	56					56	
*	1/4 Expn. Jt. Mat'l. (Type III AASHO M-153-52)	Sq.Ft.	83					83	
*	1/2 Expn. Jt. Mat'l. (Type III AASHO M-153-52)	Sq.Ft.	18					18	
132cxc	24" Reinforced Concrete Pipe Sewer	Lin.Ft.					4	4	

* Reinforcing Steel for entire Abutment.

SUMMARY OF QUANTITIES (SOUTH BRIDGE)

ITEM	DESCRIPTION	UNIT	SUPERSTR.	ABUT#1	PIER#2	PIER#3	ABUT#4	TOTAL	2 APPROACH @ SLABS
13c	Unclassified Excavation	Cu.Yd.						560	
14a	Dry Rock Excavation (Str.)	Cu.Yd.							
14b	Dry Common Excavation (Str.)	Cu.Yd.		95			35	130	
14c	Wet Rock Excavation (Str.)	Cu.Yd.							
14d	Wet Common Excavation (Str.)	Cu.Yd.		209	115	95	200	619	
16a	Structure Backfill (Class I)	Cu.Yd.		275	90	75	105	545	
16c	Mechanical Tamping	Hour		69	23	14	26	132	
18a	Station Yard Overhaul	Sta.Yd.							
18b	Yard Mile Overhaul	Yd.Mi.							
32a	Plant Mixed Asphaltic Surfacing	Ton	62.3					62.3	12.4
46a	Class "A" Concrete	Cu.Yd.	184.4	147.1	45.3	45.7	109.5	532	36
47	Reinforcing Steel (1% Overrun Included)	Lb.	26860	**	6760	6760	**	40380	4200
48	Structural Steel (1/2% added for Paint)	Lb.	153650		450	450		154550	
80c	Sheet Copper 32 oz.	Lb.	3					3	
89a	Drain Pipe 4" x 1'-6" (Conc. floor)	Each	7					7	
91b	Steel Railing	Lin.Ft.	345					345	
159	7 Ga. Metal Sheet Piling	Lin.Ft.		1008			670	1678	
*	16 Ga. Galv. Sheet Metal	Sq.Ft.	56					56	
*	1/4 Expn. Jt. Mat'l. (Type III AASHO M-153-52)	Sq.Ft.	83					83	
*	1/2 Expn. Jt. Mat'l. (Type III AASHO M-153-52)	Sq.Ft.	18					18	
132cxc	36" Reinforced Concrete Pipe Sewer	Lin.Ft.					4	4	

** Reinforcing Steel for entire Abutment is included in North Bridge summary.

REFERENCE DRAWINGS

- 4 General Layout, Summary of Quantities, General Notes.
- 5 Superstructure Plan.
- 6 Details.
- 7 Approach Slabs, Expn. Device & Bearing Details.
- 8 Abutment No. 1 (South Portion)
- 9 Abutment No. 1 (North Portion)
- 10 Pier No. 2 & No. 3
- 11 Abutment No. 4 (North Portion)
- 12 " " No. 4 (South Portion)
- 13 Bar List & Tamping Diagram.

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO DEPARTMENT OF HIGHWAYS APPLICABLE TO THE PROJECT.

ALL CONCRETE SURFACES EXPOSED TO VIEW SHALL RECEIVE CLASS "C" SURFACE FINISH, EXCEPT THE UNDERSIDE OF FLOOR SLABS AND ABUTMENT FACES BETWEEN OUTSIDE STRINGERS.

FORMS FOR CONCRETE SURFACES EXPOSED IN THE FINISHED WORK SHALL BE CONSTRUCTED OF SHIP LAP OR TONGUE AND GROOVE LUMBER 3" UNLESS FACED WITH PANEL BOARD.

FOOTINGS IN ROCK SHALL BE POURED OUT TO ROCK AND NOT FORMED.

SOUNDINGS AND DEPTH OF FOOTING SHOWN ARE IN ACCORDANCE WITH THE BEST AVAILABLE DATA AND WHEN DIFFERENT CONDITIONS ARE ENCOUNTERED THE BRIDGE ENGINEER WILL INSPECT AND DETERMINE IF REDESIGN IS NECESSARY.

ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A 305-50T OR THE LATEST REVISION THEREOF AND SHALL BE INTERMEDIATE GRADE STEEL OF A DEFORMED TYPE. EACH BAR SHALL BE TAGGED WITH THE NUMBER DESIGNATION AND THE STATION NUMBER OF THE PROJECT. PRIMARY BARS SHALL NOT BE SPLICED AND SECONDARY BARS WHEN SPLICED SHALL LAP 20 DIAMETERS OF THE BAR. DIMENSIONS FOR REINFORCING STEEL NOT SHOWN AS CLEAR SHALL BE TO THE CENTER LINE OF THE BAR.

ALL STRUCTURAL STEEL SHALL BE PAINTED ONE SHOP COAT OF ZINC CHROMATE AND TWO FIELD COATS OF ALUMINUM UNLESS OTHERWISE NOTED, EXCEPT THE UNEXPOSED PORTION OF STEEL PILING NEED NOT BE PAINTED.

ALL RIVETS, EXCEPT AS NOTED ARE 1/2" DIA. AND SHALL BE POWER DRIVEN WHEN TREATED TIMBER OR PILING IS SHOWN ON THE DRAWING THE PRESERVATIVE FOR TREATMENT SHALL BE CROSOOTE OIL.

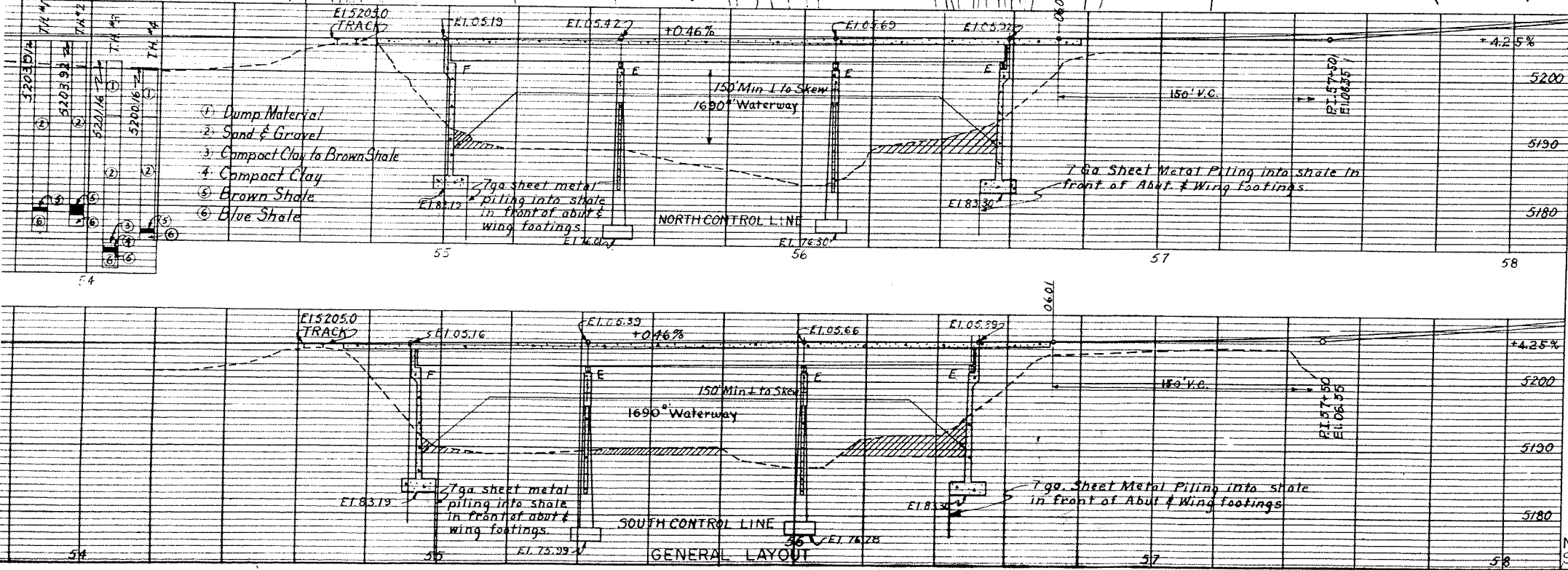
WHEN EXCAVATING FOR FOOTINGS THE FINAL ONE FOOT IN DEPTH SHALL BE DONE BY HAND LABOR METHODS.

HIGH STRENGTH BOLTS MAY BE USED IN PLACE OF FIELD RIVETS BUT AT NO ADDITIONAL EXPENSE TO THE STATE, THE BOLTS TO BE HIGH TENSILE STEEL AND SHALL BE ASSEMBLED IN ACCORDANCE WITH SPECIFICATIONS APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS OF THE ENGINEERING FOUNDATION JAN. 31, 1951.

COLORADO
DEPARTMENT OF HIGHWAYS
CONTINUOUS W/ BEAMS & CONC.
SLAB
2 BRIDGES-EACH 3 SPANS 48'-59'-48"
38 RDWY 3'-3 1/2" CURBS 85° SKEW
GENERAL LAYOUT, SUMMARY OF
QUANTITIES, GENERAL NOTES
Across South Platte River at W. 6th Ave.
In Denver Sec. 5 T. 4S R. 68W

Designed by P.C.
Made by P.C.
Checked by

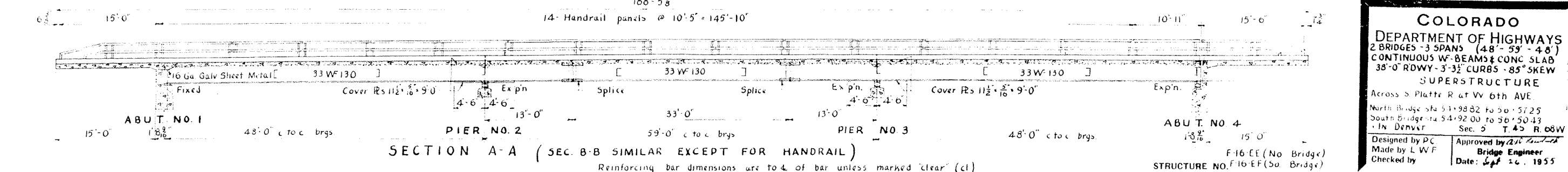
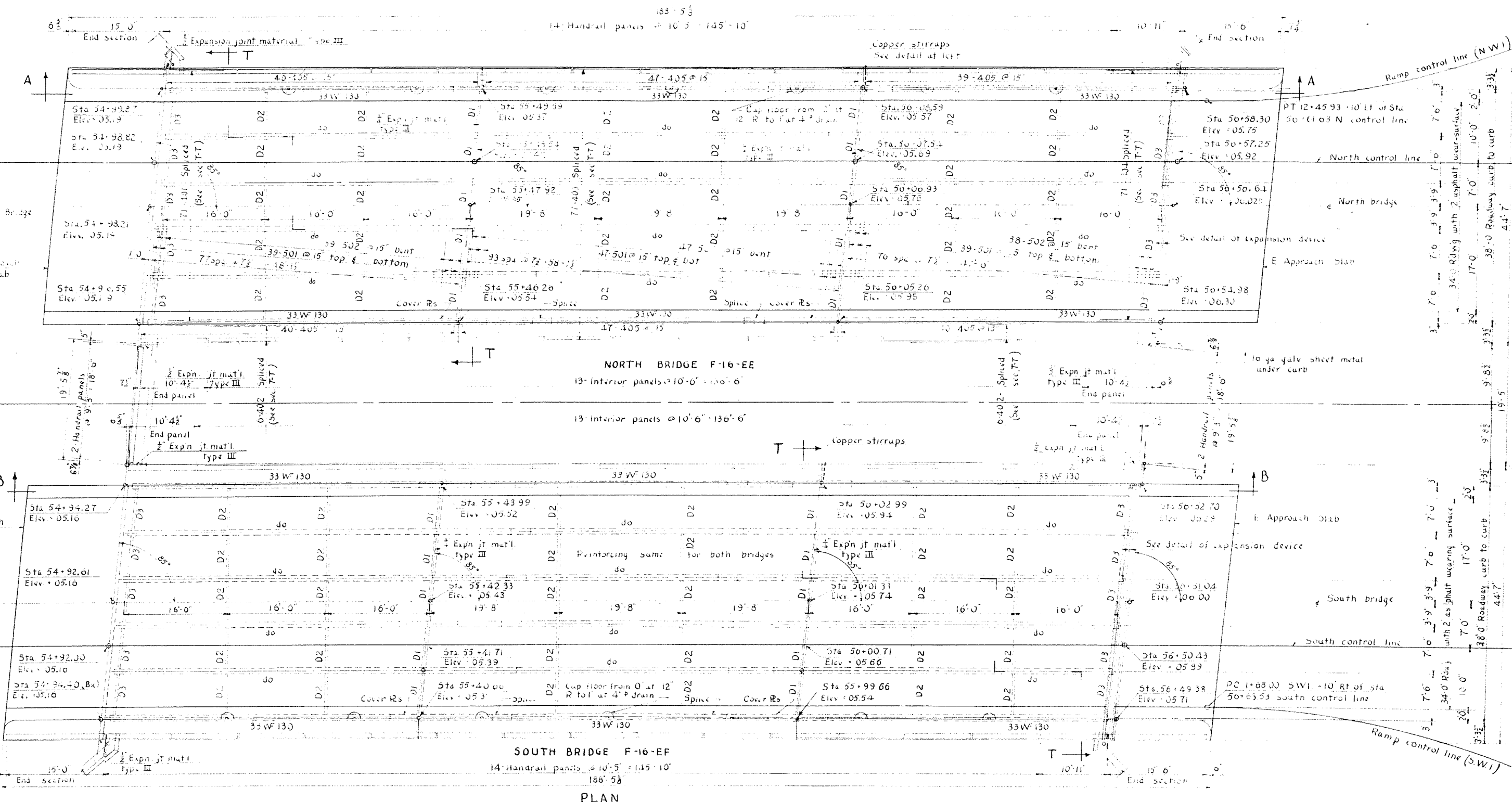
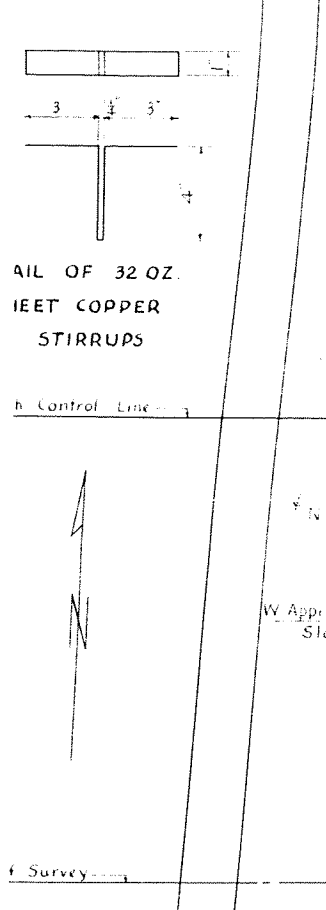
Approved by *[Signature]*
Bridge Engineer
Date: *Sept 26, 1955*



Approach Slab Quantities are not included in total of Bridge Quantities.
* To be included in the Bid Price of Class "A" Concrete.

NORTH BRIDGE - STR. NO. F-16-EE STA. 54+98.82 TO 56+57.25
SOUTH BRIDGE - STR. NO. F-16-EF STA. 54+92.00 TO 56+50.43

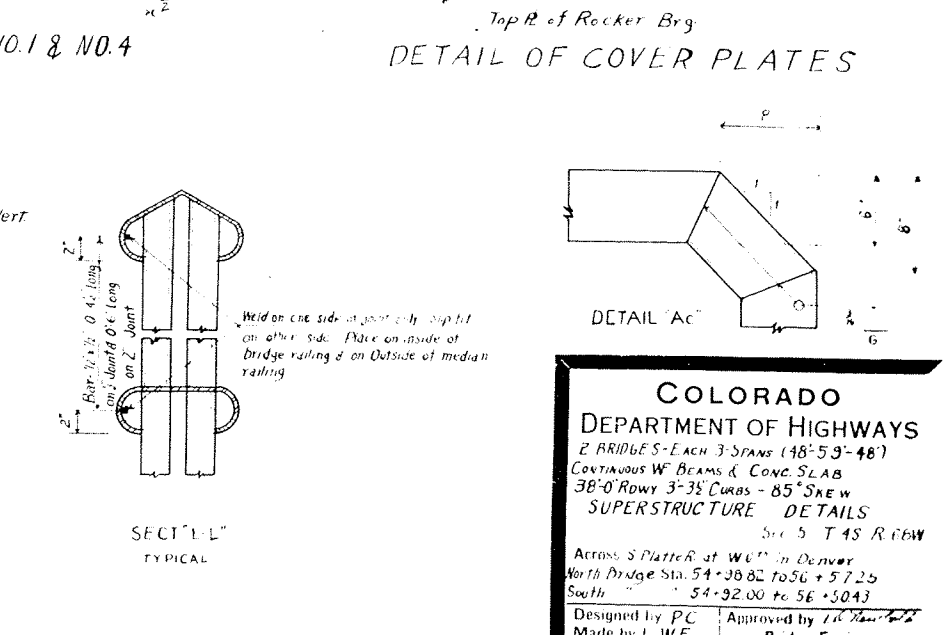
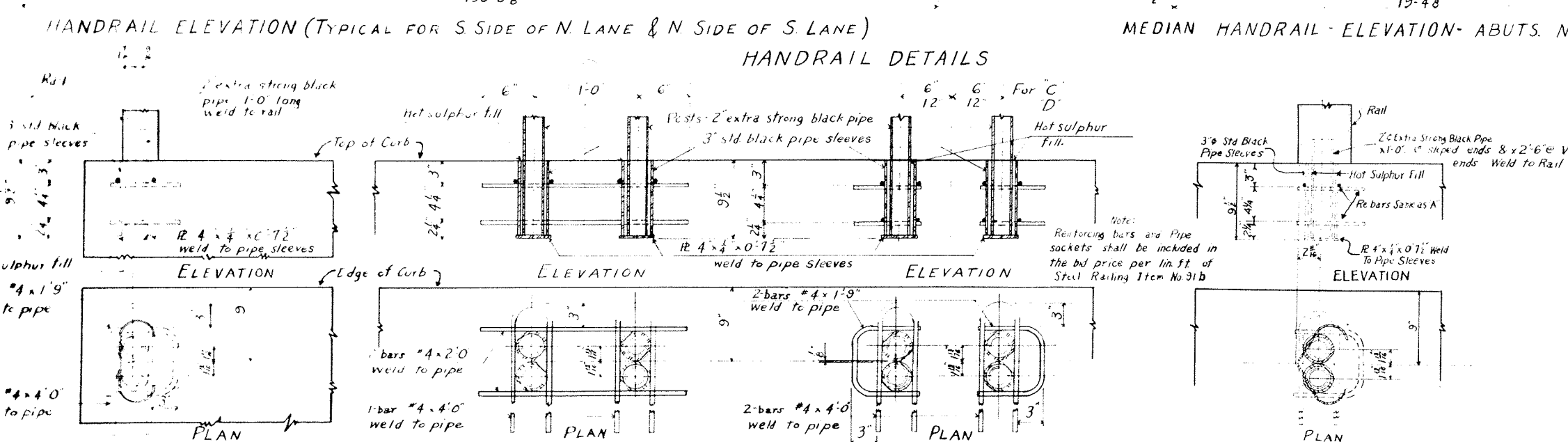
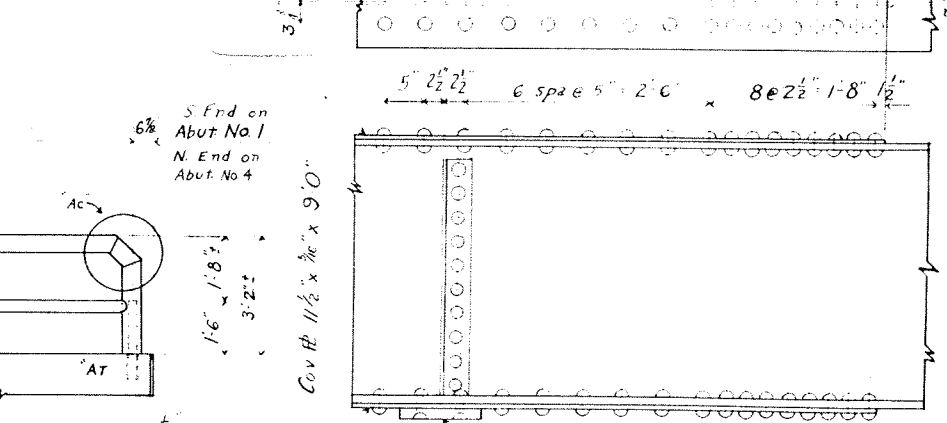
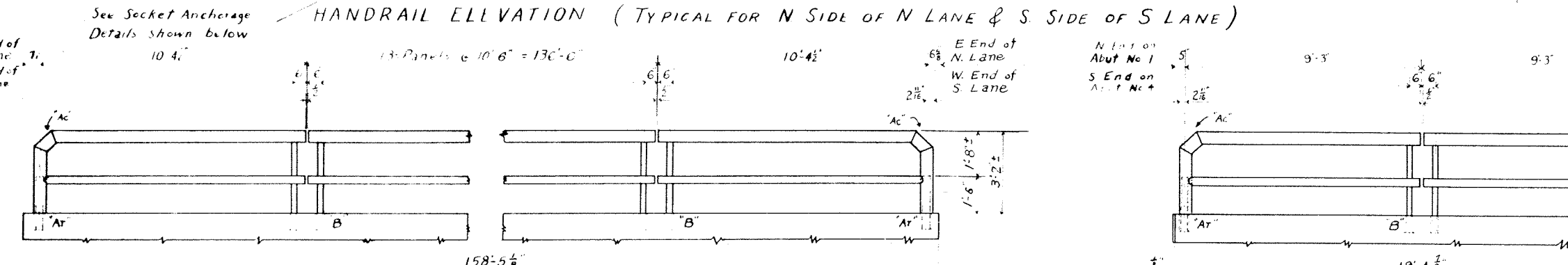
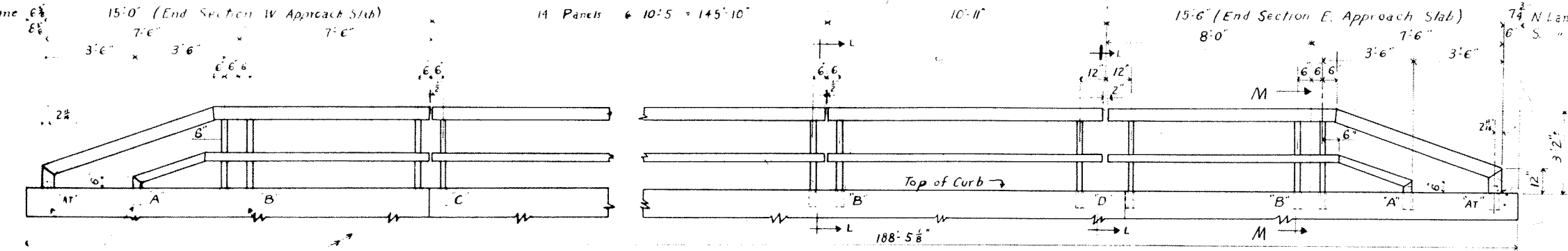
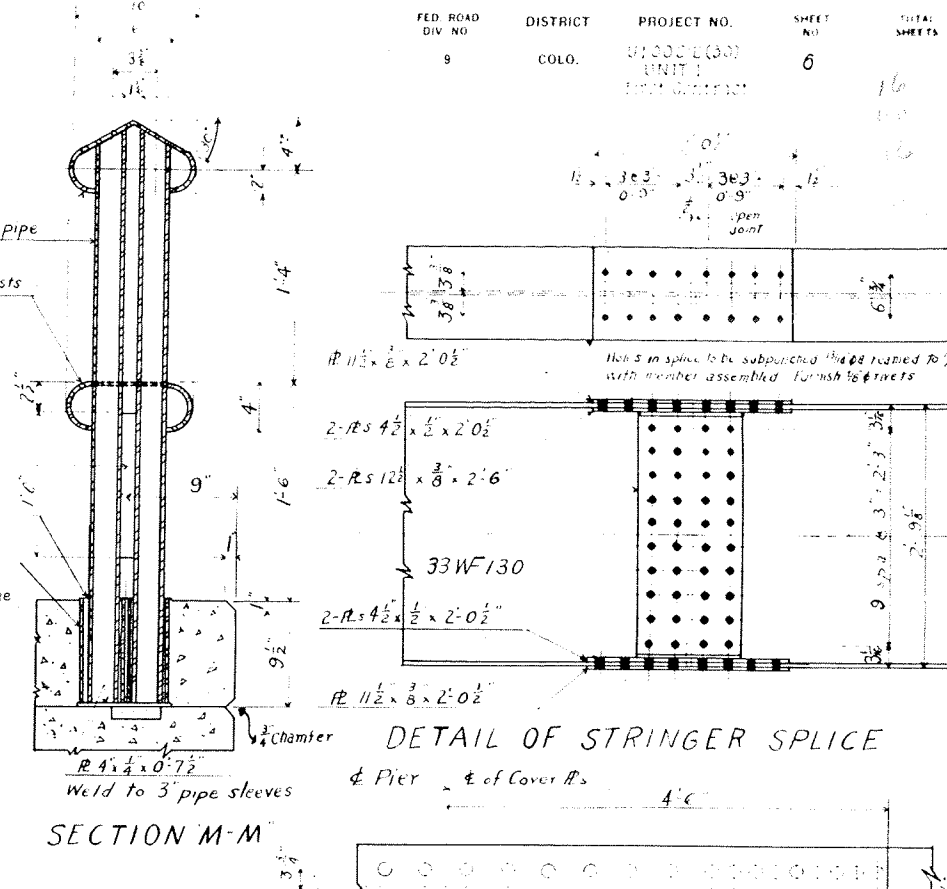
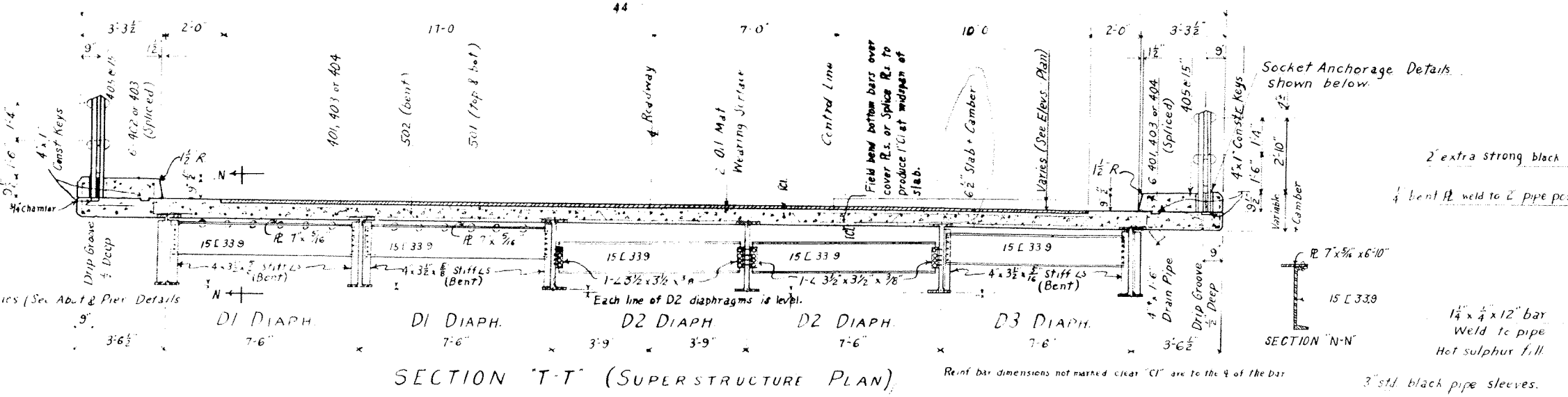
ALL OF 32 OZ. 1/2" DIAMETER COPPER STIRRUPS



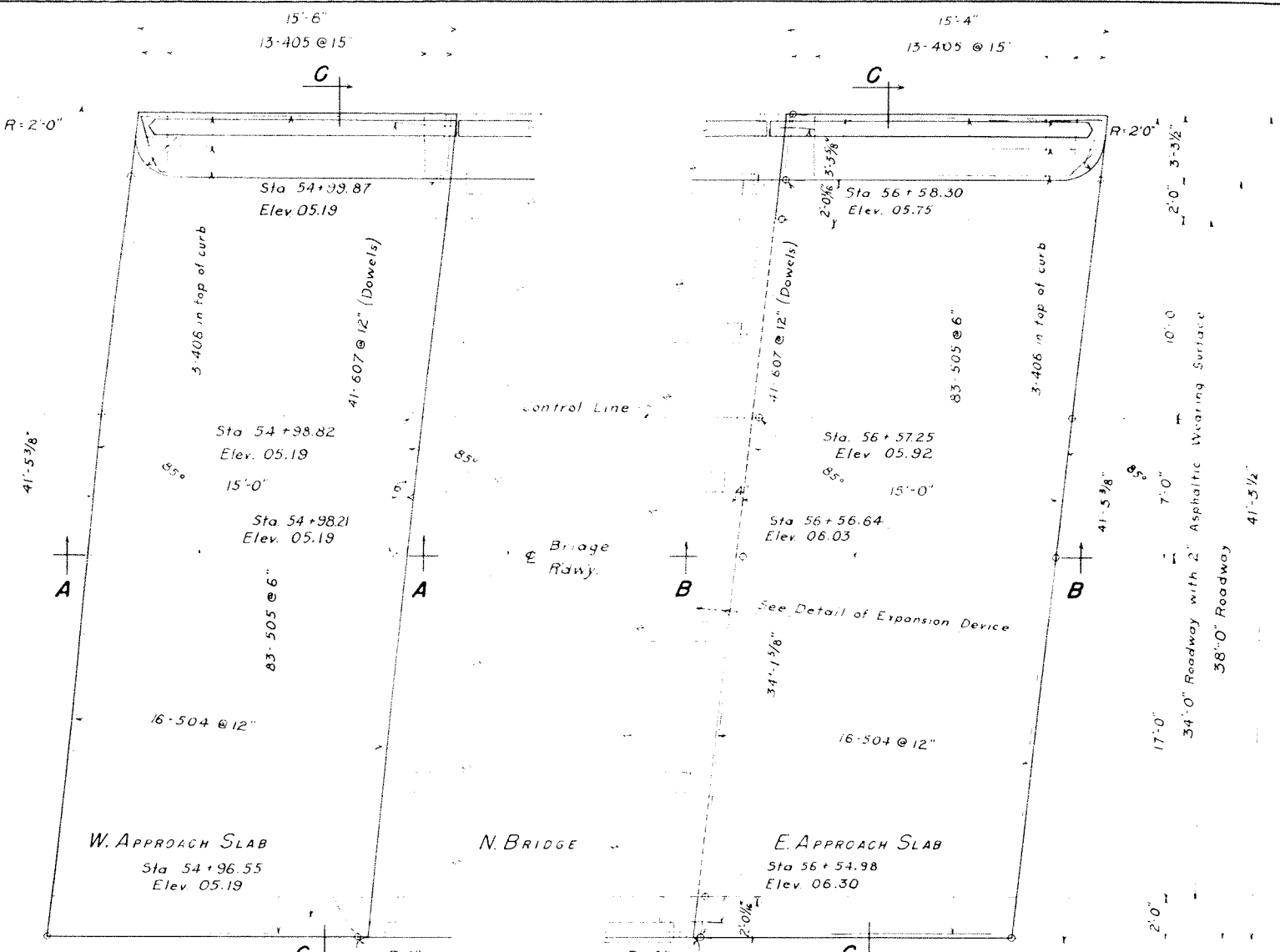
COLORADO
DEPARTMENT OF HIGHWAYS
2 BRIDGES - 3 SPANS (48'-5" - 48')
CONTINUOUS W-F BEAMS & CONC SLAB
38'-0" ROWY - 3'-3 1/2" CURBS - 85" SKEW
SUPERSTRUCTURE

Across S. Platte R at W. 6th AVE.
North Bridge sta 54+98.82 to 56+57.25
South Bridge sta 54+92.00 to 56+50.43
In Denver Sec. 5 T. 45 R. 08W

Designed by PC Approved by LWF
Made by LWF Bridge Engineer
Checked by Date: 4/16/1955



COLORADO DEPARTMENT OF HIGHWAYS
 2 BRIDGES - EACH 3 SPANS (48'-5 9/8" - 48')
 CONTINUOUS WF BEAMS & CONC. SLAB
 38'-0" ROWY 3'-3 1/2" CURBS - 85° SKEW
 SUPERSTRUCTURE DETAILS
 SHEET 5 OF 16
 ACROSS S. PLATTER AT W. END IN DENVER
 NORTH BRIDGE STA. 54+30.82 TO 56+57.25
 SOUTH " 54+32.00 TO 56+50.43
 DESIGNED BY P.C. BRIDGE ENGINEER
 MADE BY L.W.F. BRIDGE ENGINEER
 CHECKED BY DATE: 6/1/20

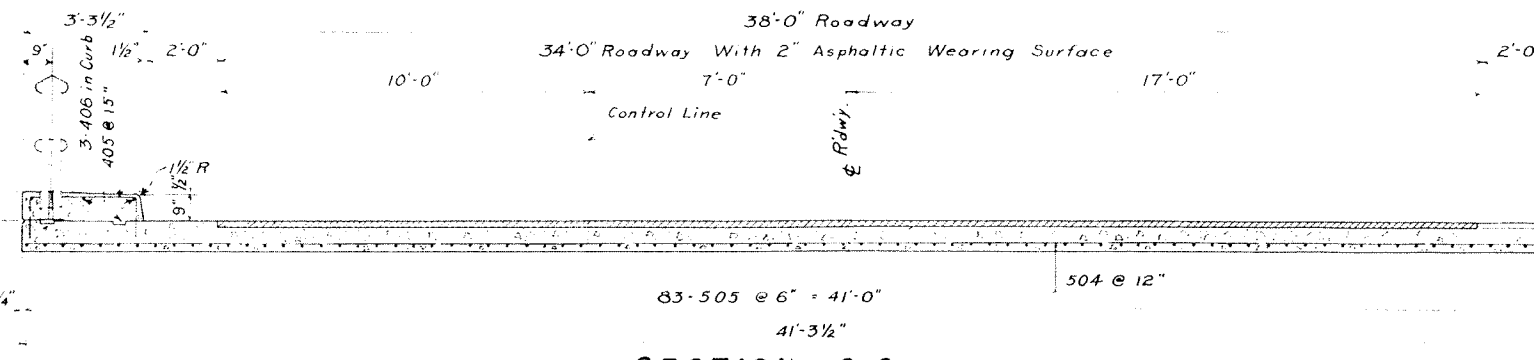


APPROACH SLABS FOR N. BRIDGE SHOWN (FOR S. BRIDGE SIMILAR)



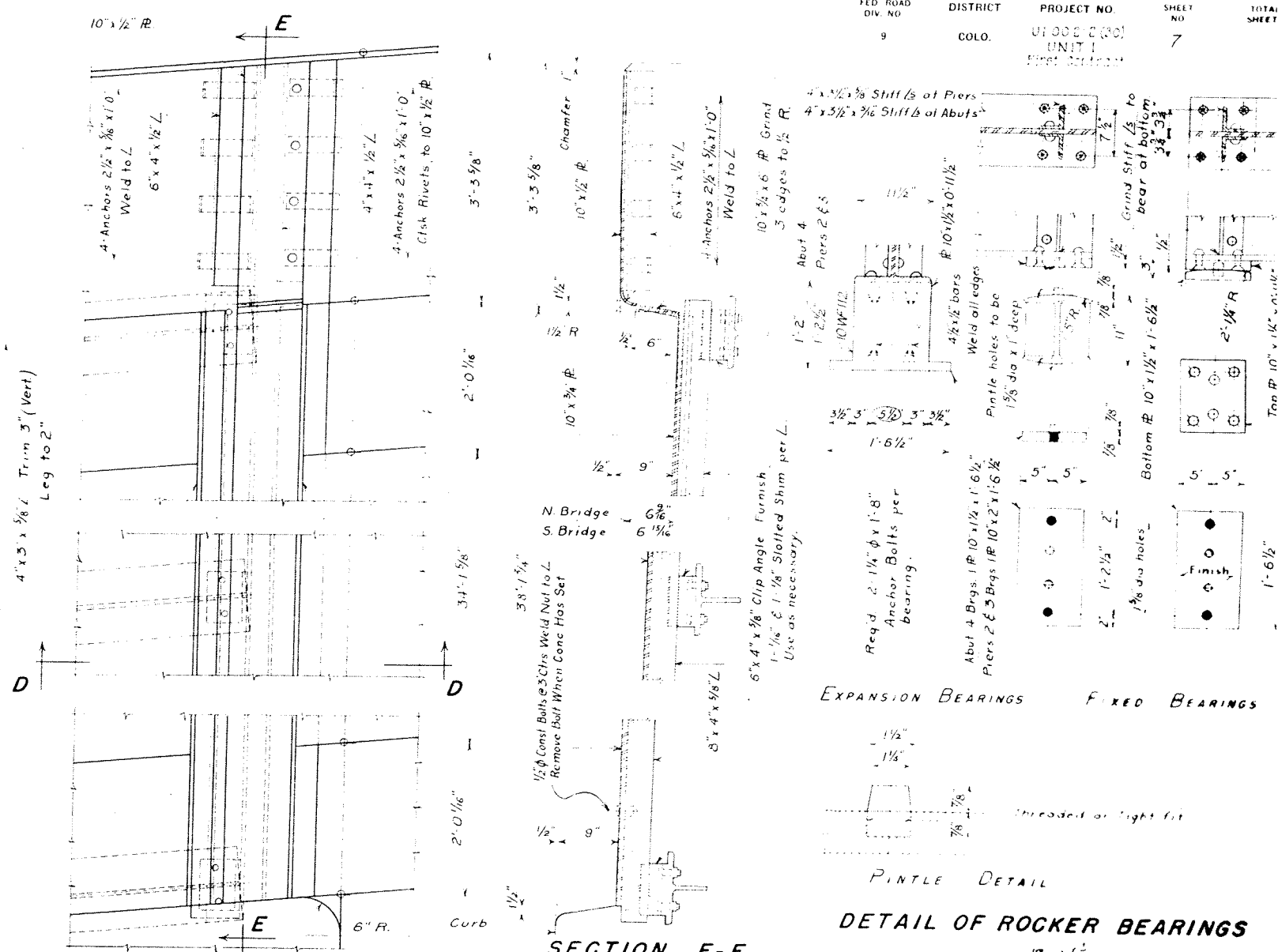
SECTION A-A

SECTION B-B



SECTION C-C
DETAILS OF APPROACH SLABS

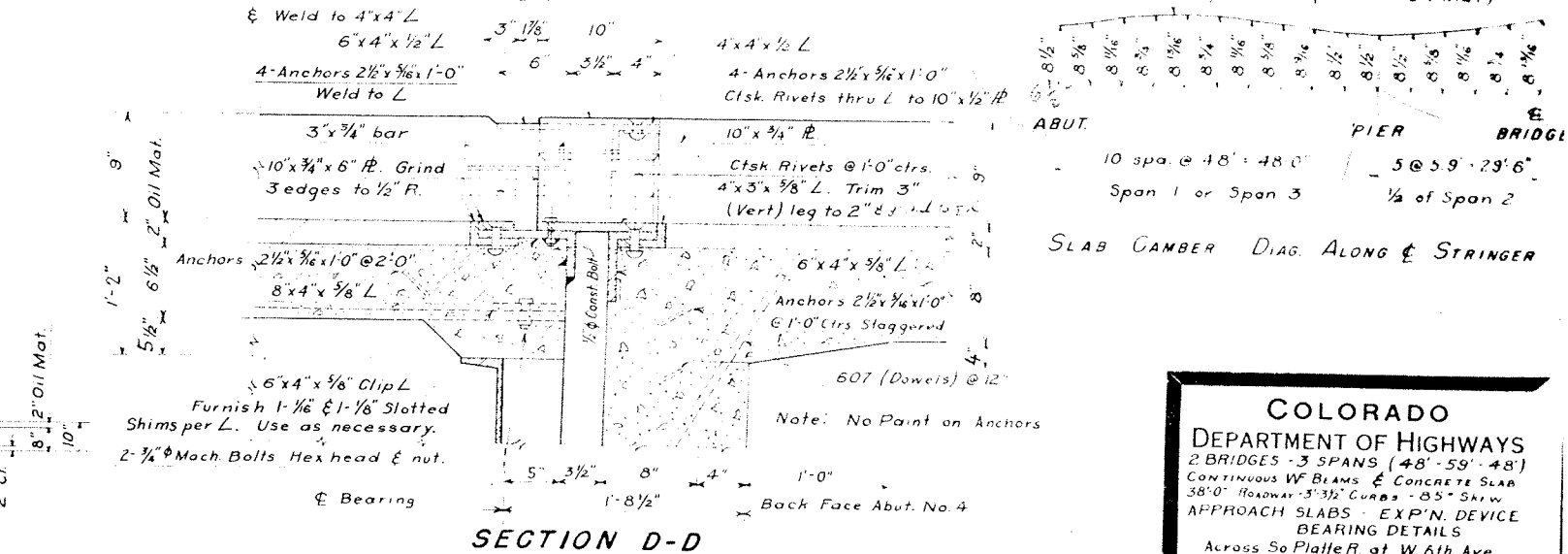
Reinforcing bar dimensions are to ϕ of bar unless marked "clear" (Cl.)



PART PLAN

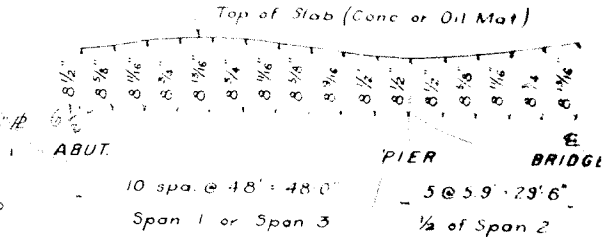
SECTION E-E
(SHOWING STEEL ONLY)

DETAIL OF ROCKER BEARINGS



SECTION D-D

DETAILS OF STEEL EXPANSION DEVICE



SLAB CAMBER DIAG. ALONG ϕ STRINGER

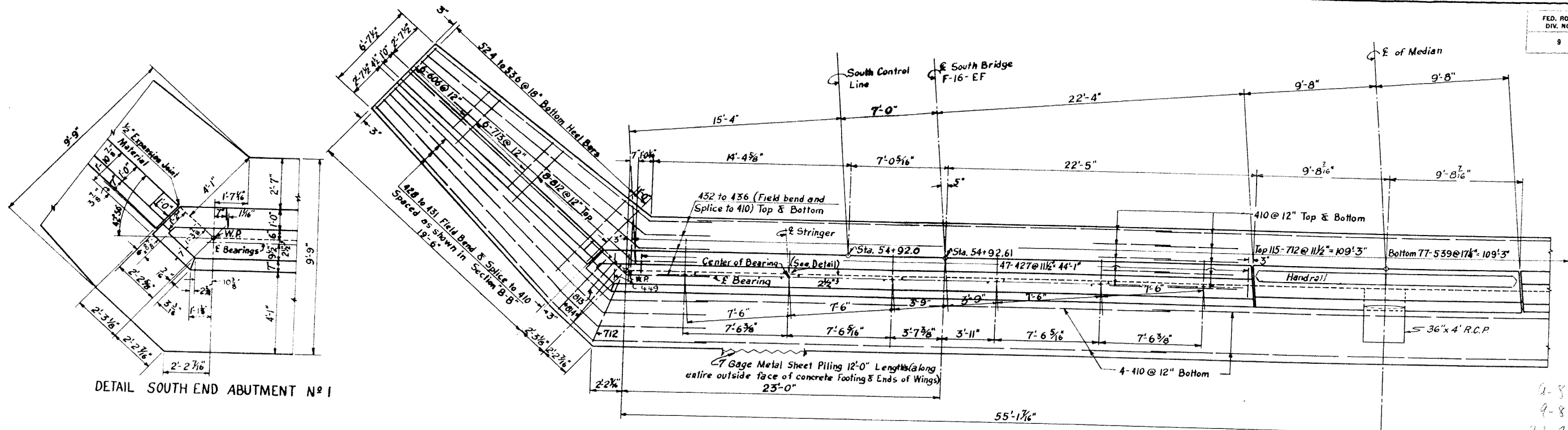
COLORADO
DEPARTMENT OF HIGHWAYS
2 BRIDGES - 3 SPANS (48' - 59' - 48')
CONTINUOUS WF BEAMS & CONCRETE SLAB
38'-0" ROADWAY - 3'-3/4" CURBS - 85' SKYW.
APPROACH SLABS - EXP'N. DEVICE
BEARING DETAILS

Across So Platte at W. 6th Ave.
North Bridge Sta. 54+98.82 to 56+57.25
South Bridge Sta. 54+92.00 to 56+50.43
In Denver Sec. 5 T. 45 R. 60W

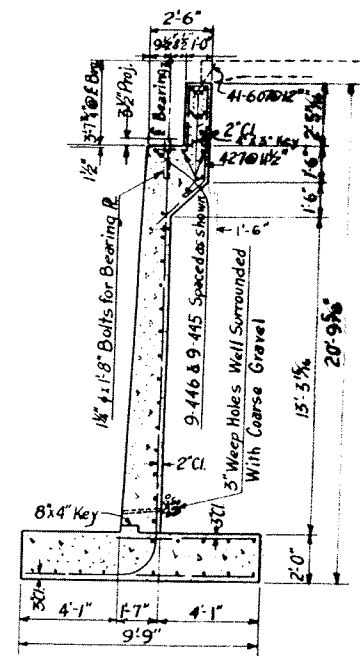
Designed by P. C. Approved by J. P.
Made by L. W. F. Bridge Engineer
Checked by Date: 11-15-1950

STRUCTURE NO. F-16-EE (North Bridge)
STRUCTURE NO. F-16-EF (South Bridge)

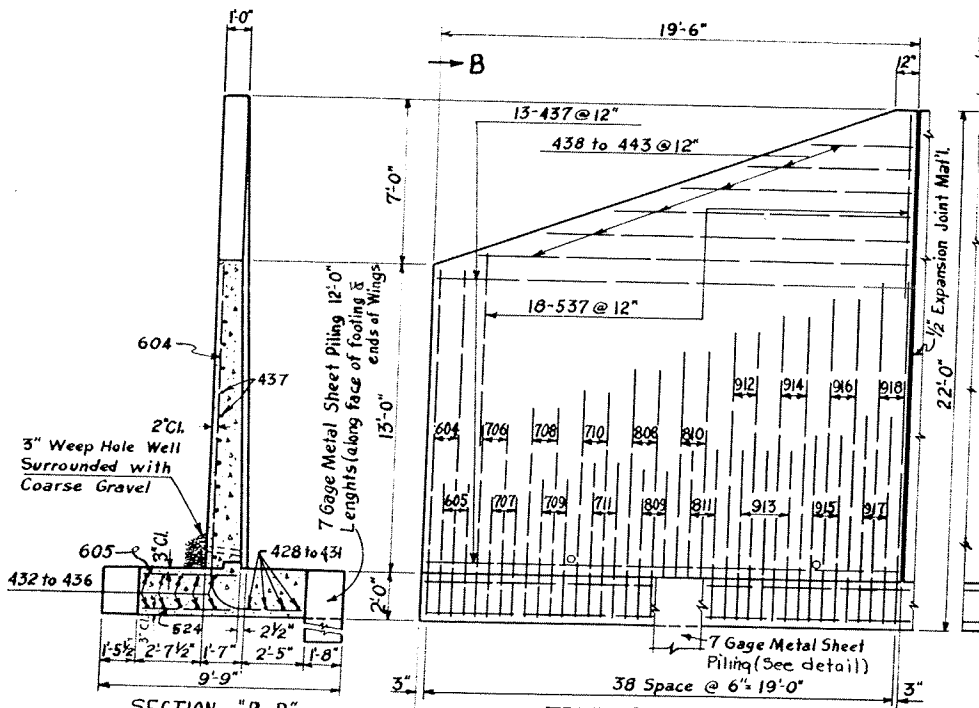
First Contract



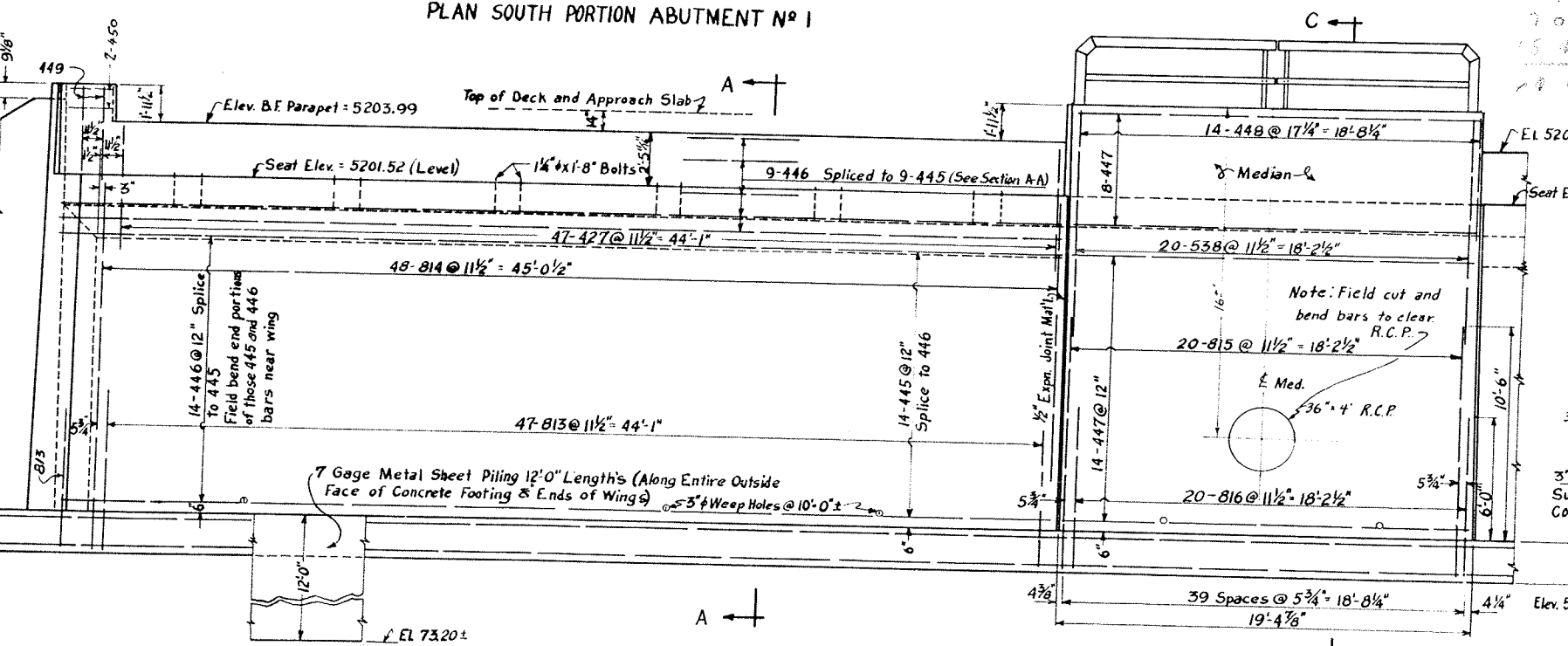
PLAN SOUTH PORTION ABUTMENT NO 1



SECTION 'A-A'

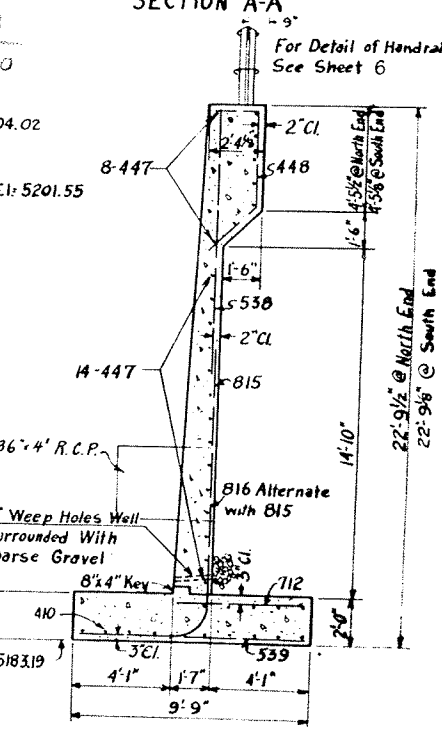


TRUE ELEVATION SOUTH WING ABUTMENT NO 1

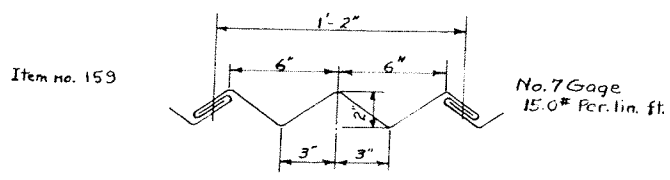


ELEVATION SOUTH PORTION ABUTMENT NO 1

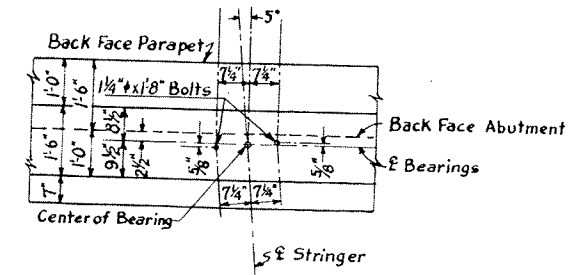
MAXIMUM TDE PRESSURE = 3900/50 FT.



SECTION 'C-C'



TYPICAL SECTION OF METAL SHEET PILING (Interlocking Type)



DETAIL AT BEARING

Note: All Expansion Joint Material Used In Abutment To Be Type III Dimensions For Reinforcing Steel Not Shown As Clear Shall Be To The Center Line Of The Bar

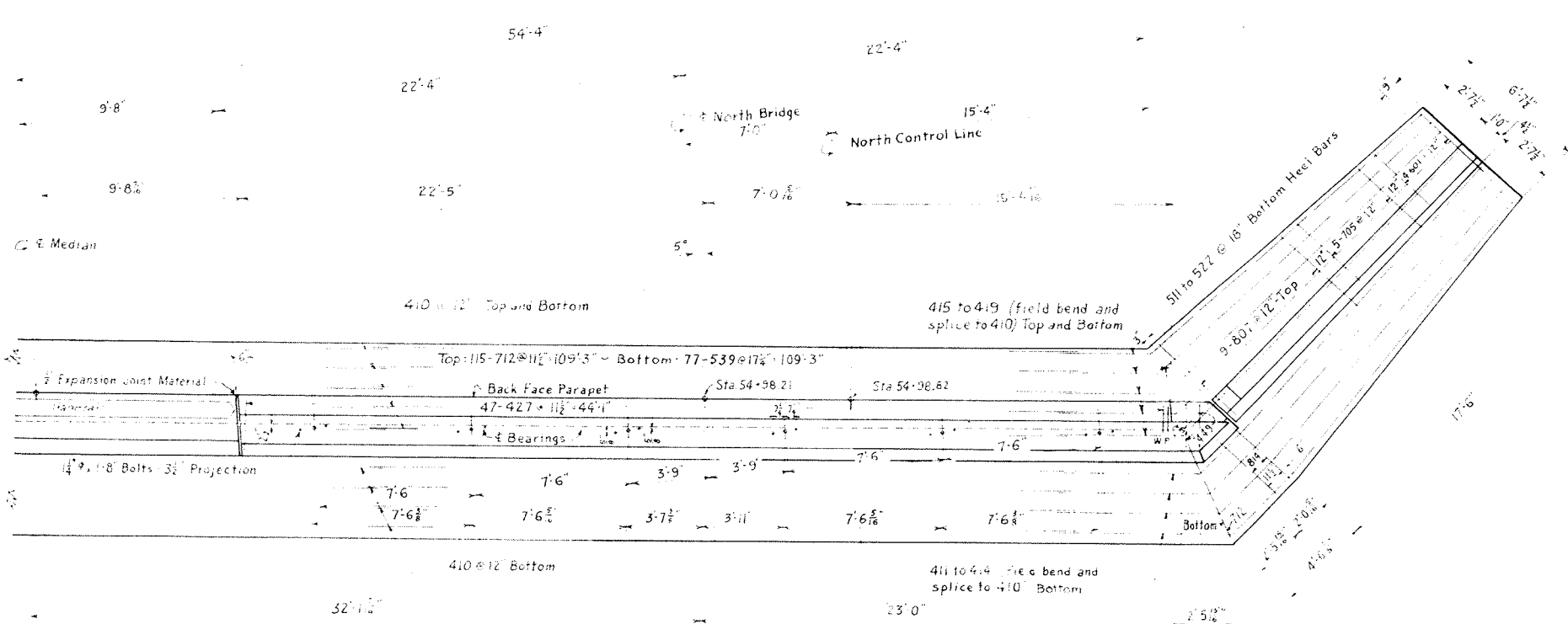
COLORADO DEPARTMENT OF HIGHWAYS

TWO BRIDGES-EACH 3 SPANS (48'-59'-48") CONTINUOUS W/ BEAMS & CONCRETE SLAB 38'-0" ROADWAY 3'-3 1/2" CURB 85'-00" SKEW ABUTMENT NO 1 AND DETAILS Across SOUTH PLATE RIVER AT WEST 6TH AVE. Sta. SEE NOTE AT LEFT

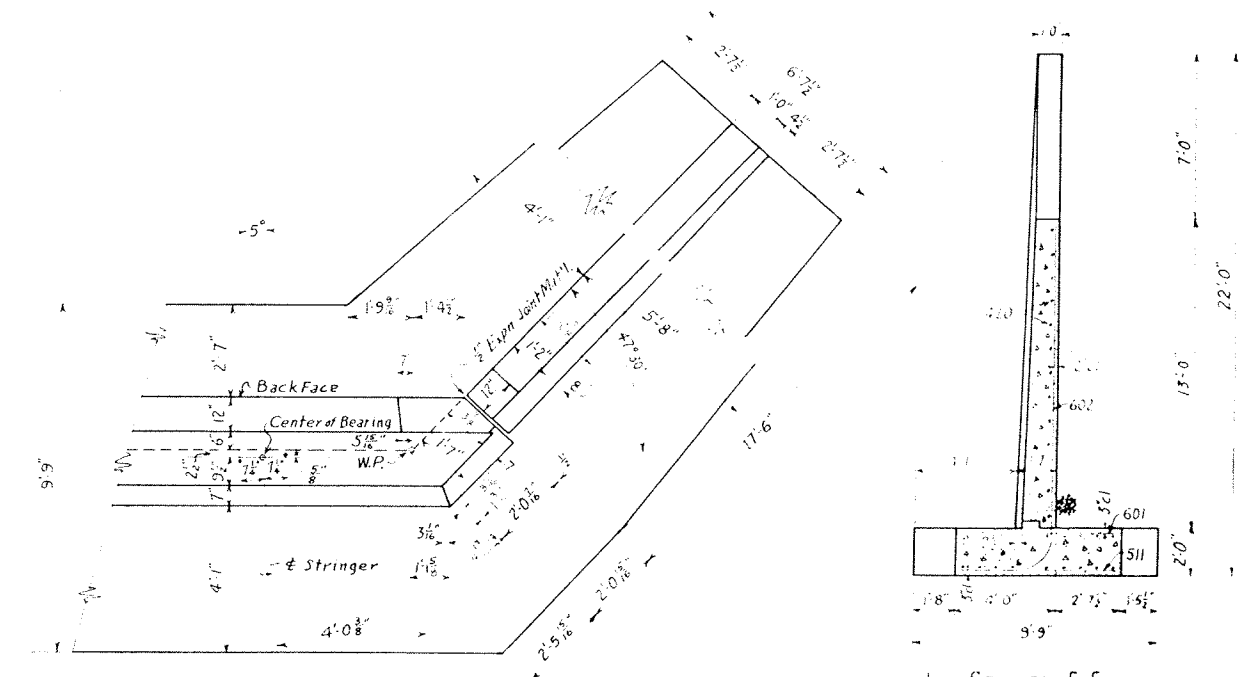
IN DENVER Sec. 5 T. 45 R. 68W

Designed by P.C. Approved by T.J.M. Made by T.J.M. Bridge Engineer Checked by Date: Sept. 26, 1955

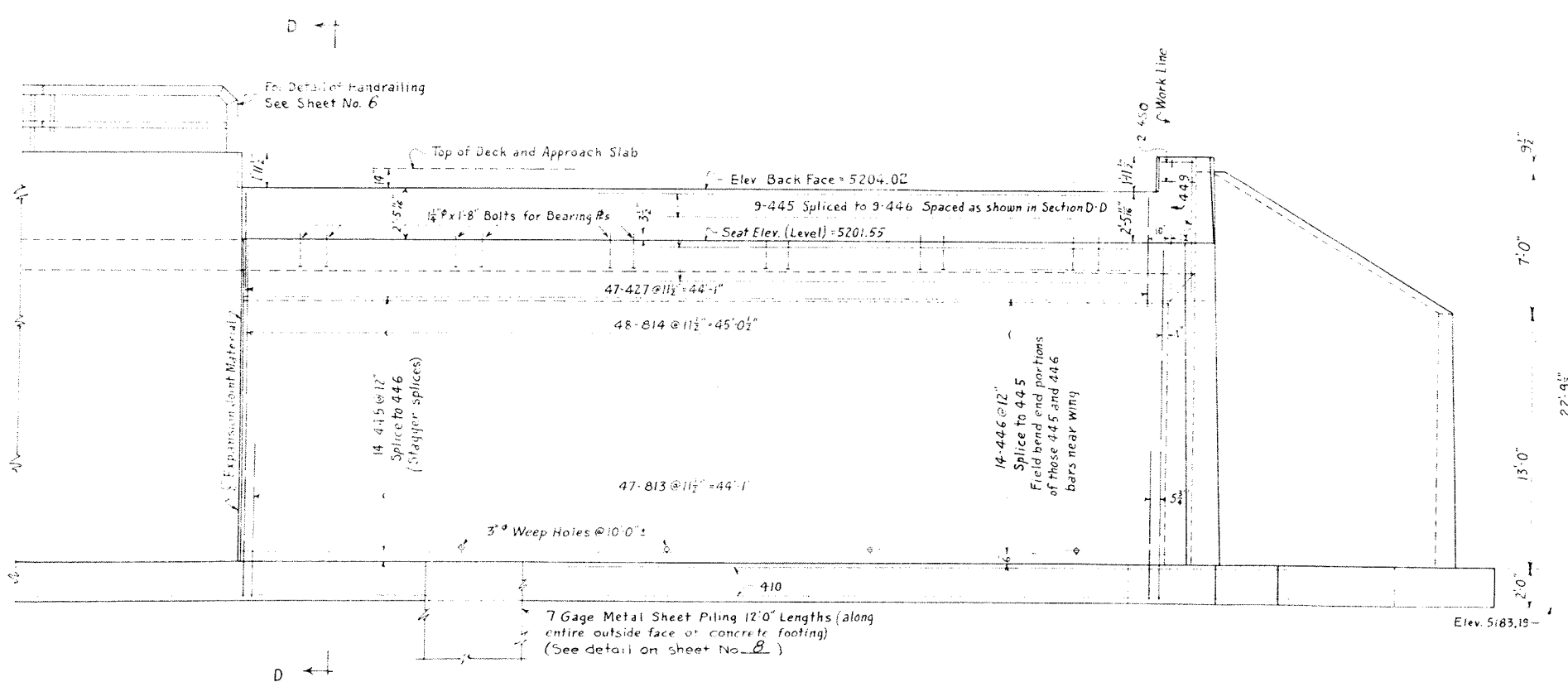
NORTH BRIDGE STRUCTURE NO F-16-EE STATION 54+98.82 to 56+57.25 SOUTH BRIDGE STRUCTURE NO F-16-EE STATION 54+92.00 to 56+50.43



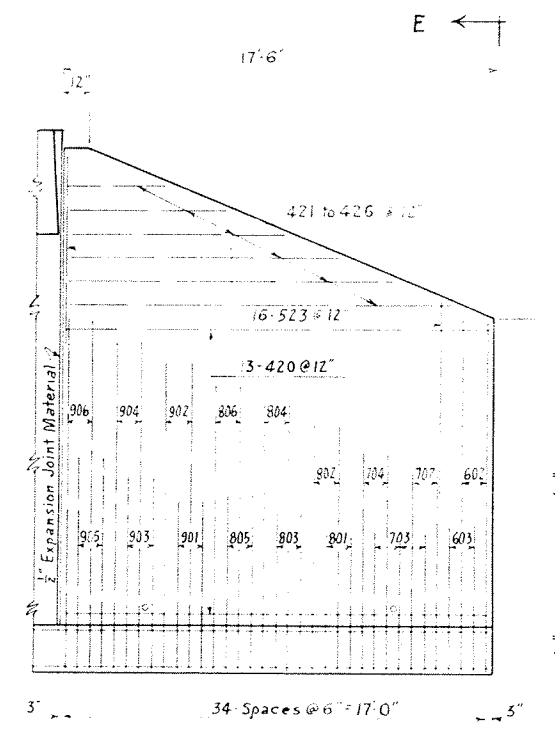
PLAN NORTH PORTION ABUTMENT No.1



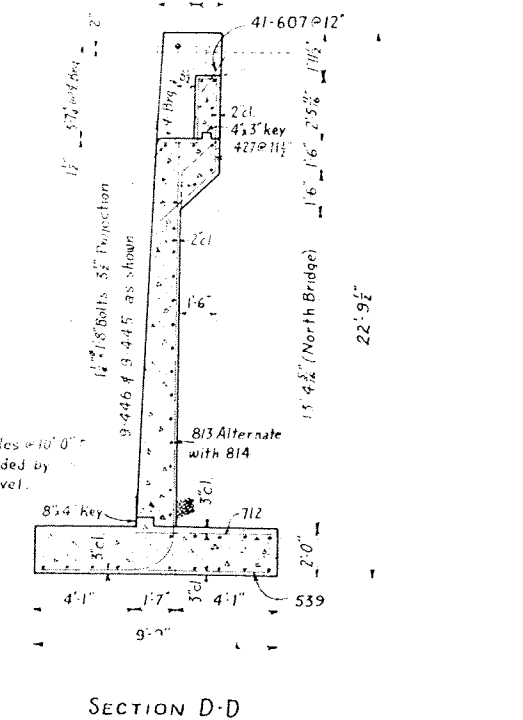
DETAIL NORTH END ABUTMENT No.1



ELEVATION NORTH PORTION ABUTMENT No.1
 (Max toe pressure = 3,900 lbs/sq ft.)



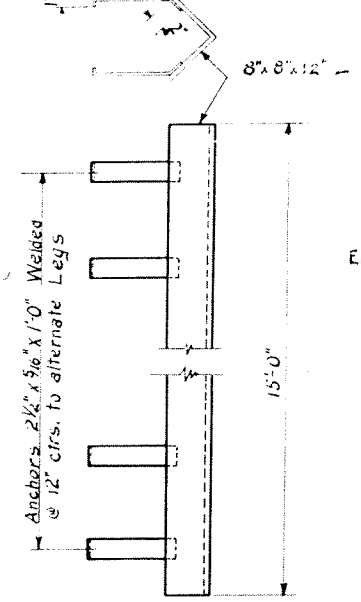
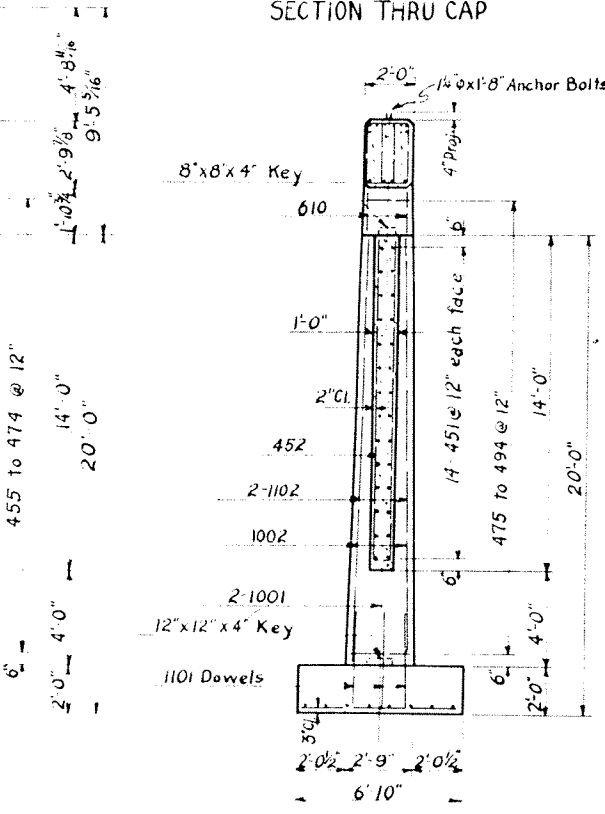
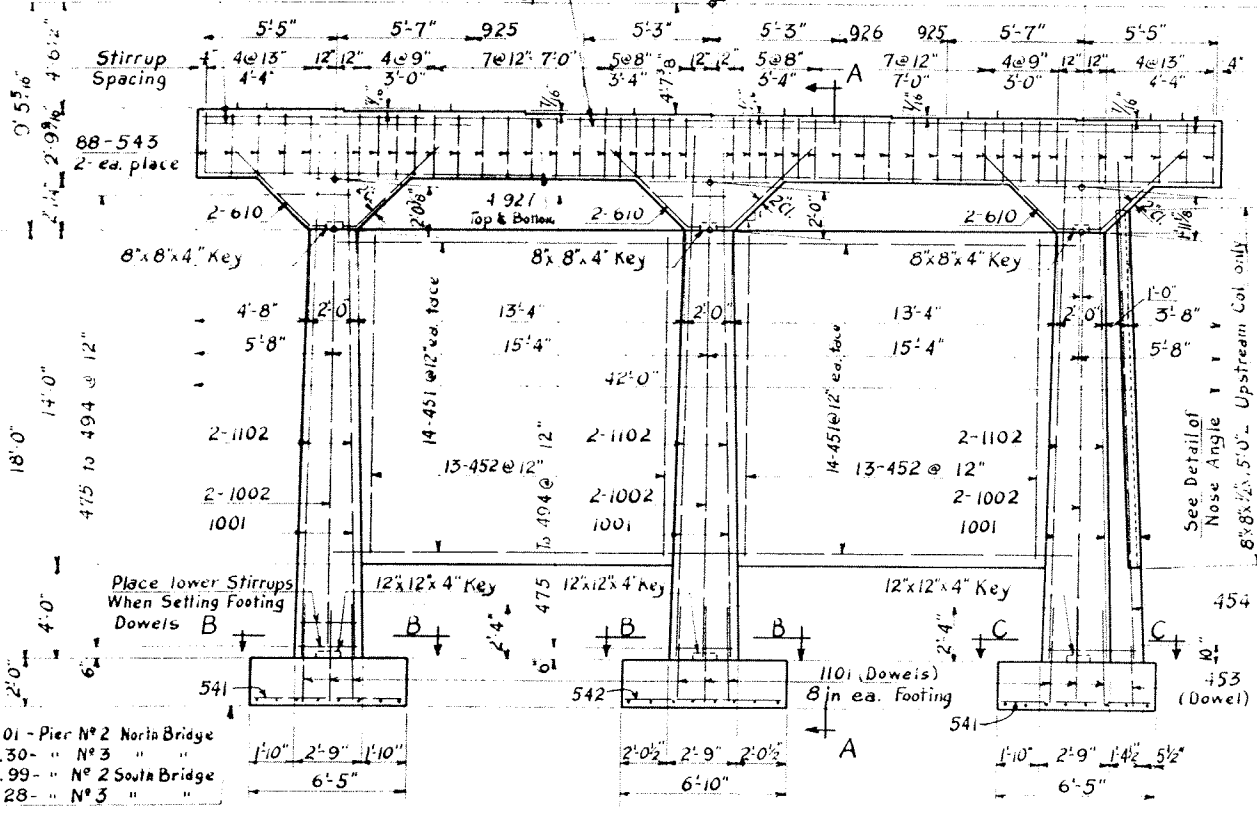
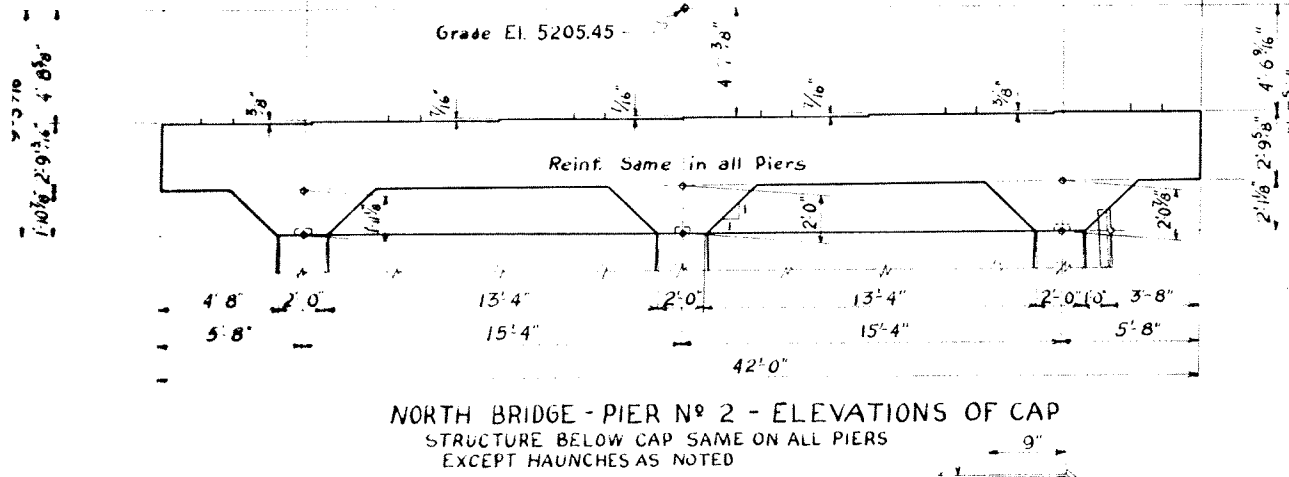
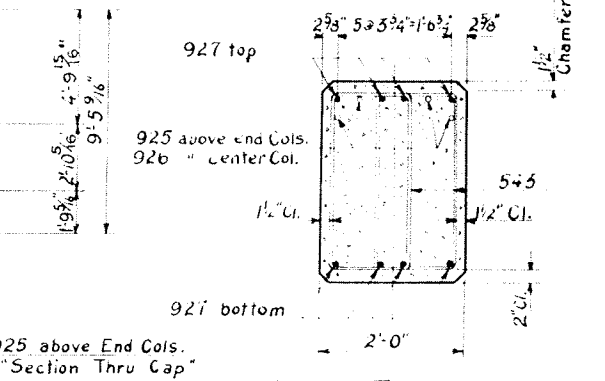
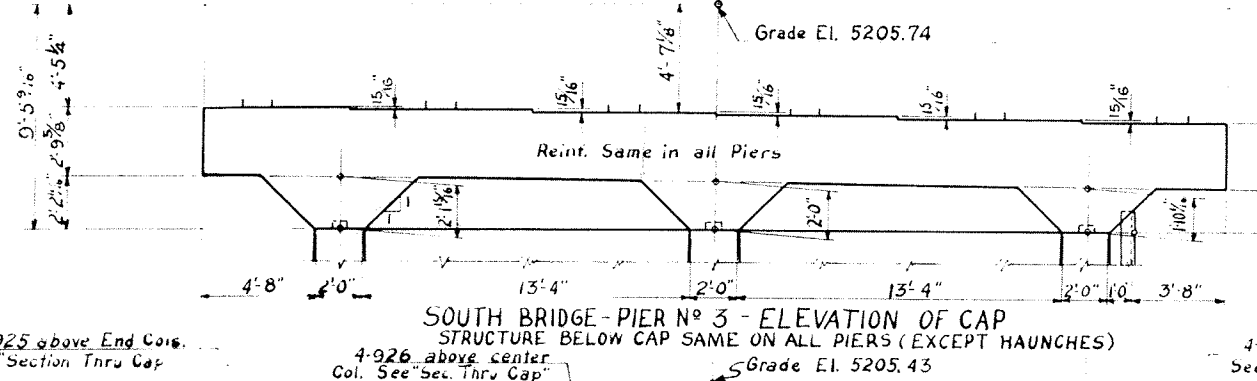
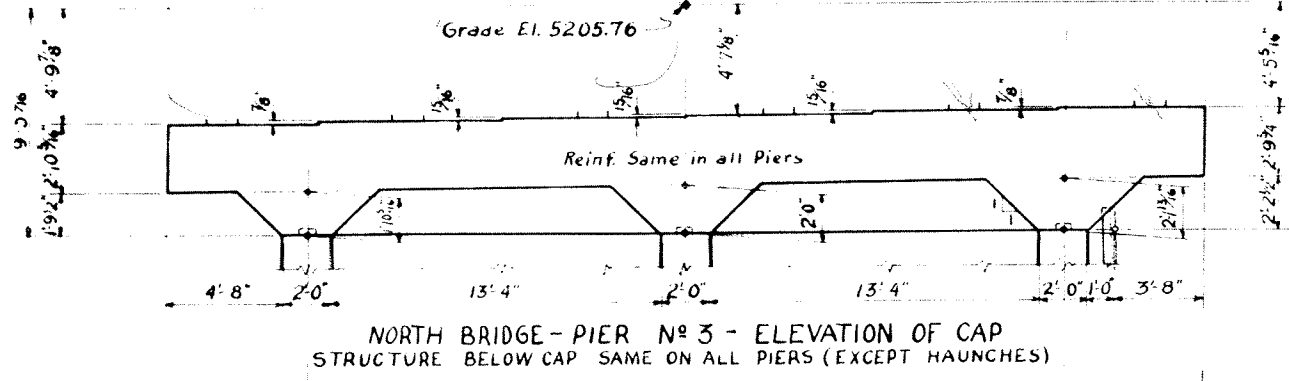
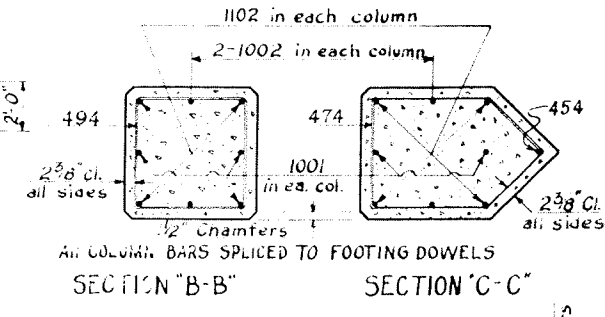
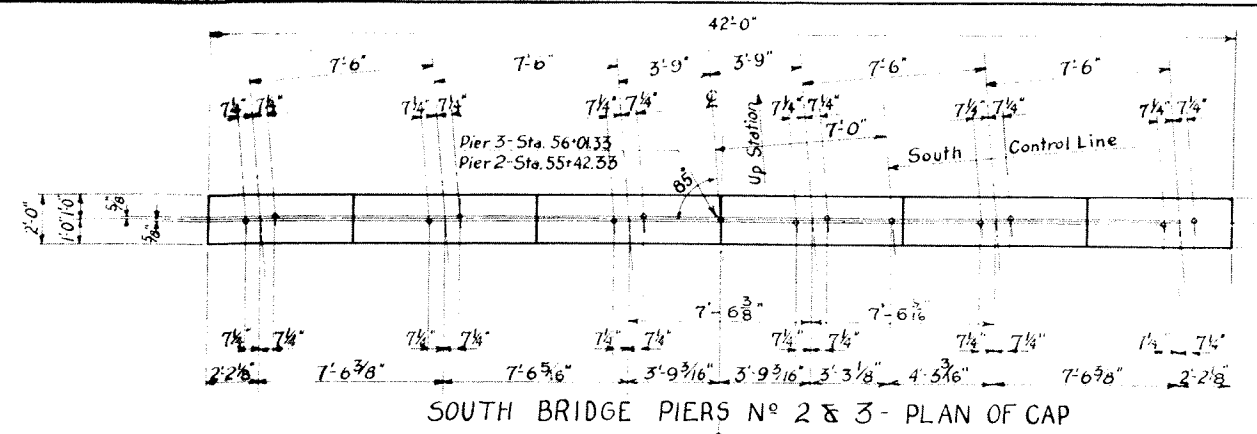
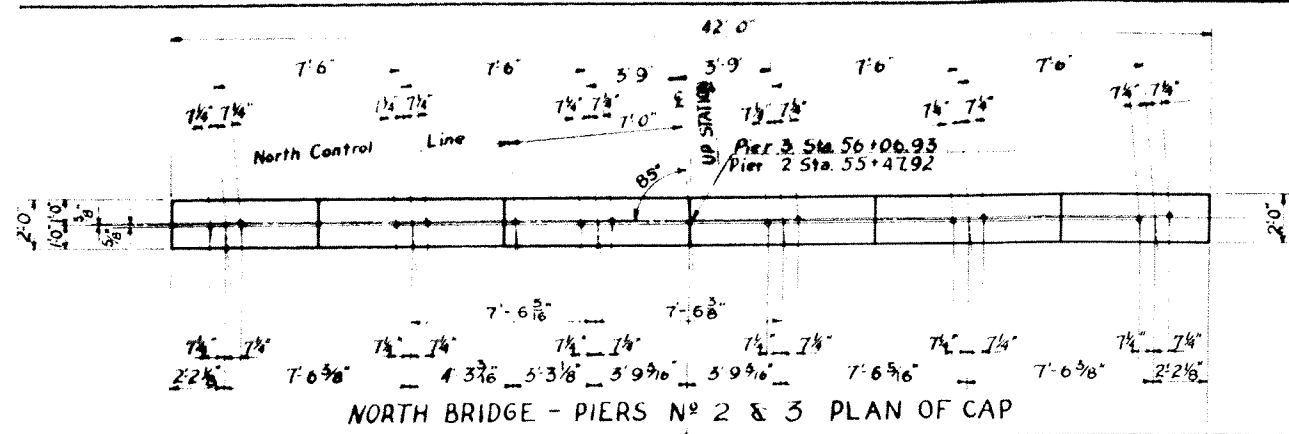
TRUE ELEVATION NORTH WING ABUTMENT No.1



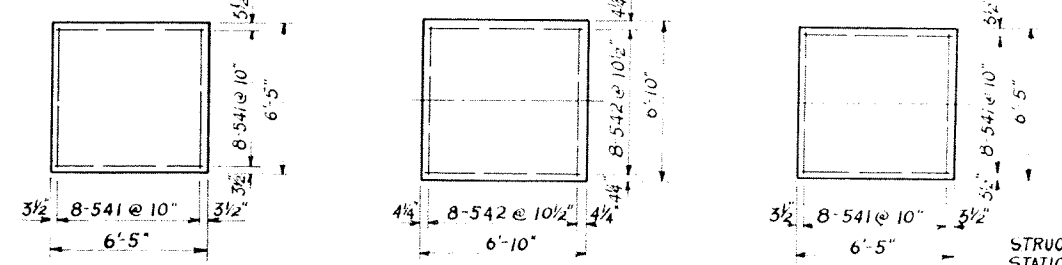
SECTION D-D

COLORADO DEPARTMENT OF HIGHWAYS
 Two Bridges - Each 3 Spans (48'-59'-48')
 CONTINUOUS WF BEAMS AND CONCRETE SLAB
 38'-0\"/>

Note: All expansion joint material used in abutment to be type III. Dimensions for reinforcing steel not shown as clear shall be to the centerline of the bar.



Elevation 5176.01 - Pier No 2 North Bridge
" 5176.30 - " No 3 "
" 5175.99 - " No 2 South Bridge
" 5176.28 - " No 3 "



COLORADO DEPARTMENT OF HIGHWAYS
 2 BRIDGES - 3 SPANS (48'-59'-48')
 38'-0" ROADWAY 3'-3 1/2" CURBS 85° SKEW
 CONTINUOUS W BEAMS & CONC. SLAB
PIER DETAILS

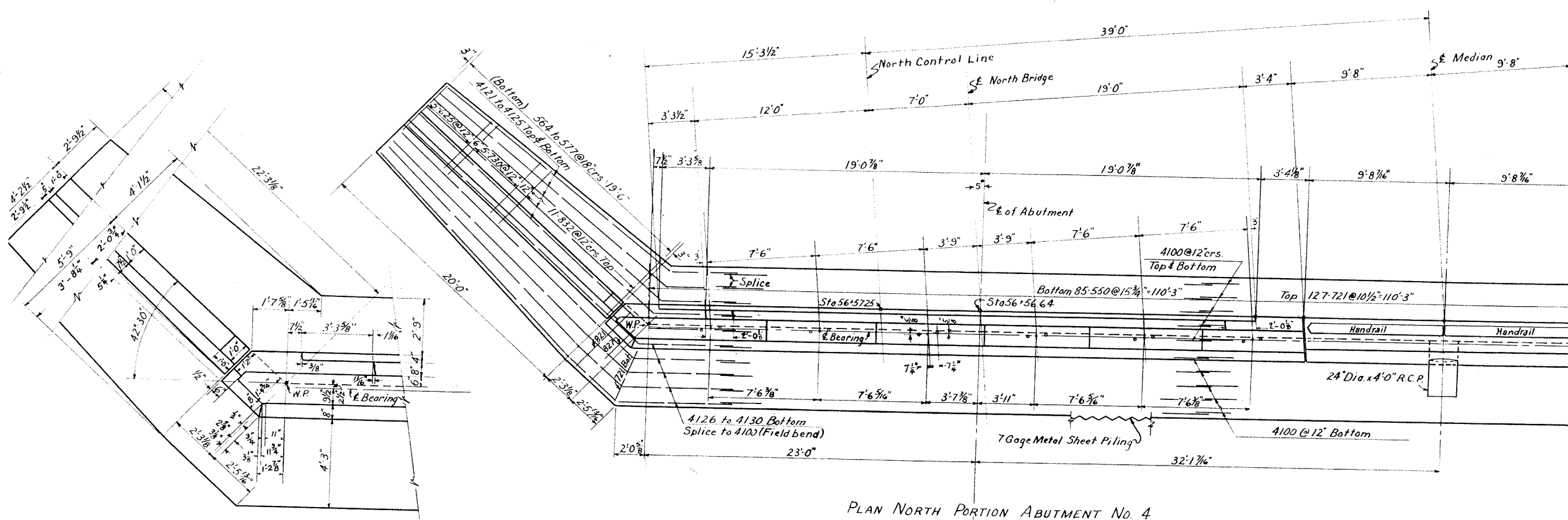
Across SOUTH PLATTE RIVER AT WEST 6TH IN DENVER SEE DESCRIPTION AT LEFT

STATION 54+98.82 TO 56+57.25 SOUTH BRIDGE
 STRUCTURE NO F-16-EE
 STATION 54+92.00 TO 56+50.45 NORTH BRIDGE
 STRUCTURE NO F-16-EF

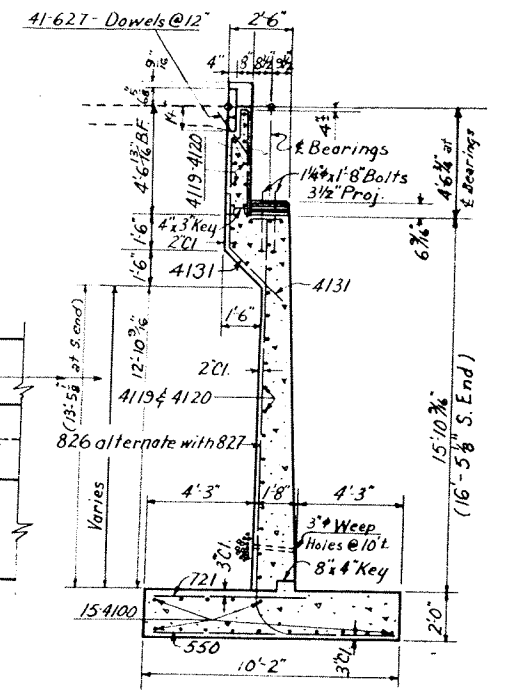
Designed by P.C. Approved by J. W. ...
 Made by L.W.F. Bridge Engineer
 Checked by Date: 6/26/55

Reinforcing bar dimensions are to the % of the bar unless marked clear "Cl."

FED. ROAD DIV. NO.	DISTRICT	PROJECT NO.	SHEET NO.	TOTAL SHEETS
8	COLO.	U1002 2(30) UNIT I First Contract	11	

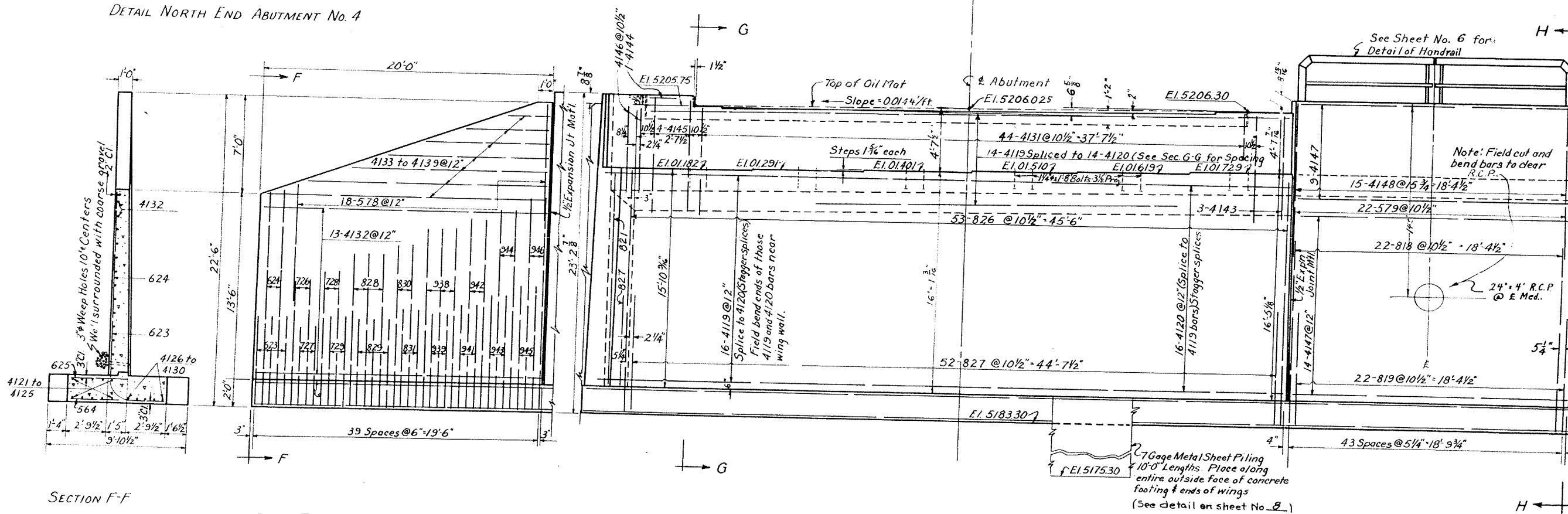


PLAN NORTH PORTION ABUTMENT No. 4



SECTION G-G

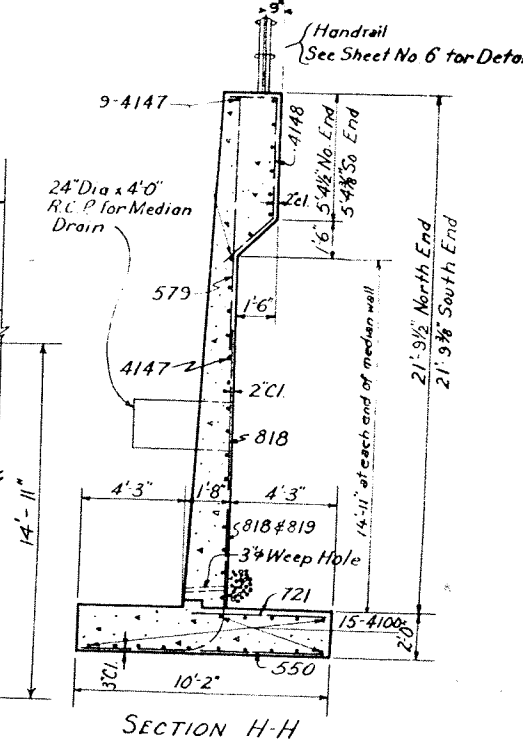
DETAIL NORTH END ABUTMENT No. 4



ELEVATION NORTH PORTION ABUTMENT No. 4

Max. toe pressure = 3860#/Sq ft.

Note: All expansion joint material used in abutment shall be type III. Dimensions for reinforcing steel not shown as "clear" shall be to the center line of bar.



SECTION H-H

TRUE ELEVATION NORTH WING ABUTMENT No. 4

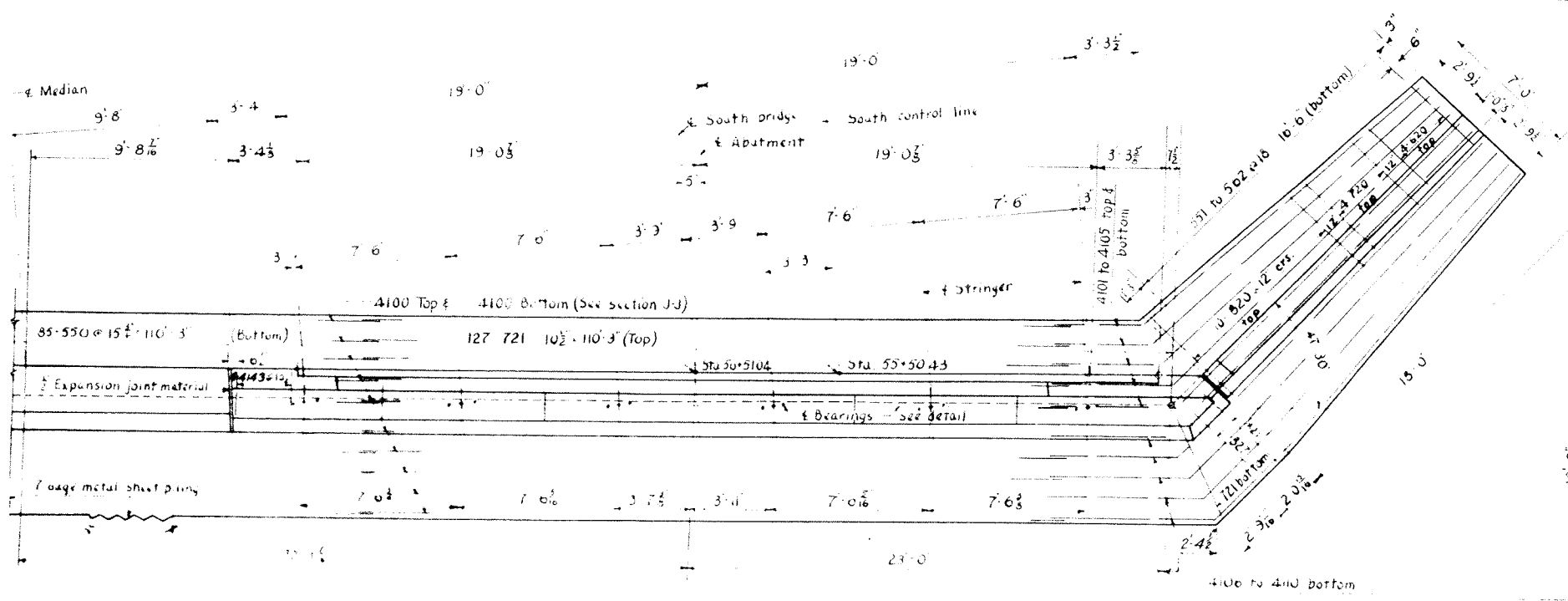
North Bridge Sta. 54+98.82 to Sta. 56+57.25
South Bridge Sta. 54+92.00 to Sta. 56+50.43

STRUCTURE NO. { F-16-EE (North Bridge)
F-16-EF (South Bridge)

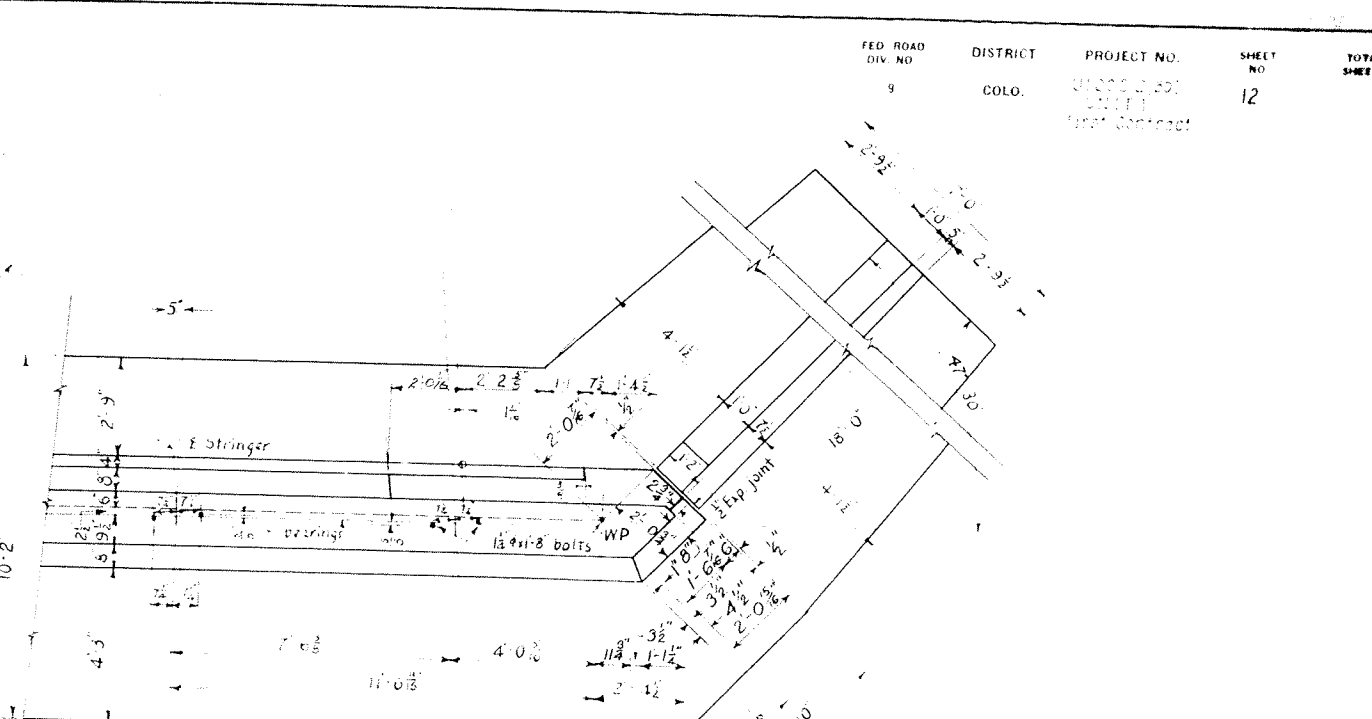
COLORADO DEPARTMENT OF HIGHWAYS

TWO BRIDGES - EACH 3 SPANS (48'-59'-48")
CONTINUOUS W/ BEAMS & CONCRETE SLAB
38'-0" RDWY. 3'-3 1/2" CURBS 85°00' SKEW
ABUTMENT No. 4 AND DETAILS
Across So. Platte River at W. 6th Ave.

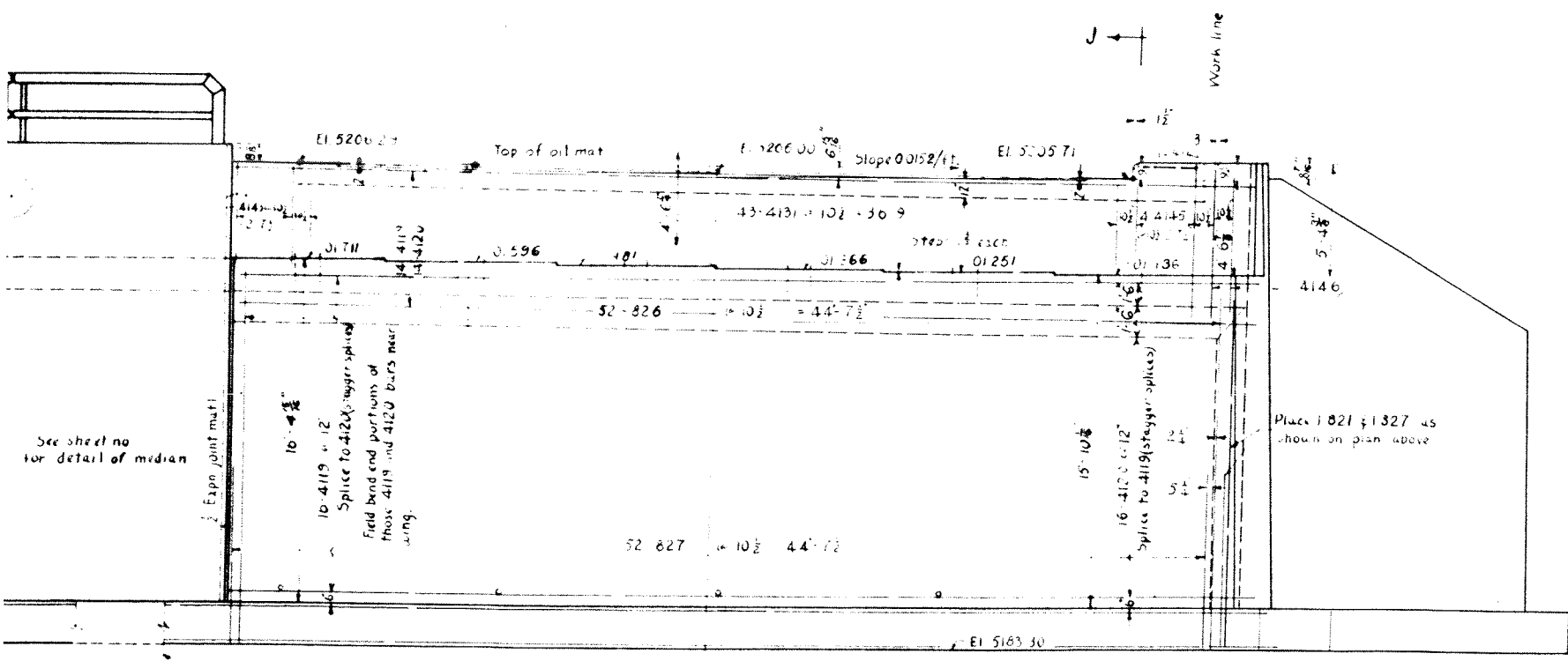
In Denver Sec. 5 T.A.S. R.681W
Designed by P.C. Approved by L.D. K...
Made by T.J.M. Bridge Engineer
Checked by Date: 4.24.26, 1955



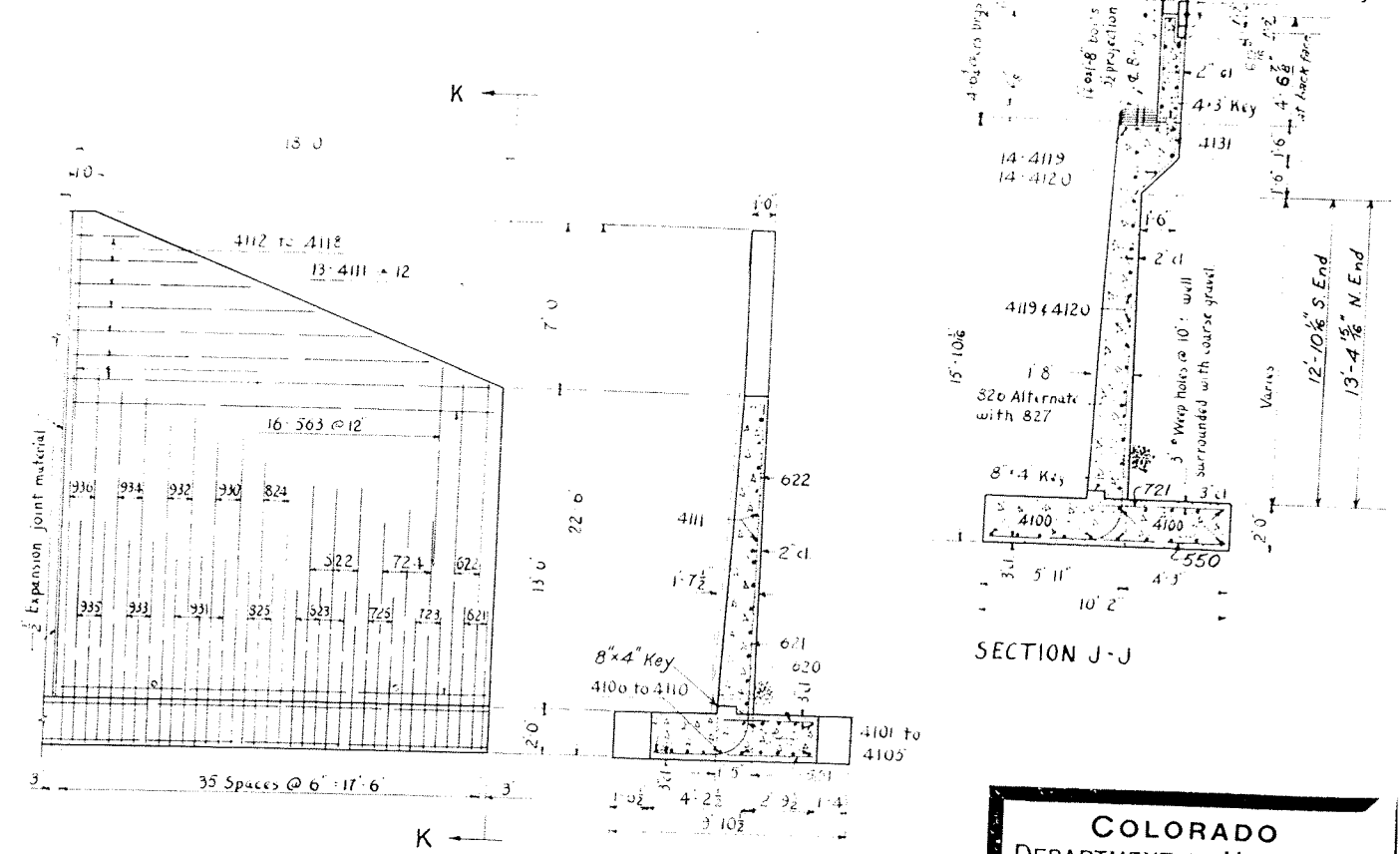
PLAN SOUTH PORTION ABUTMENT NO. 4



DETAIL SOUTH END ABUTMENT NO. 4

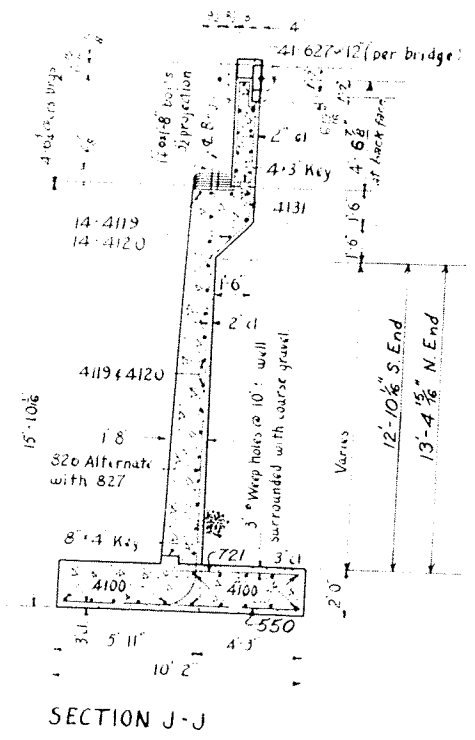


ELEVATION SOUTH PORTION ABUTMENT NO. 4



TRUE ELEVATION SOUTH WING

SECTION K-K



SECTION J-J

Note: All expansion joint material used in abutment shall be type III. Dimensions for reinforcing steel not shown as clear shall be to the center line of bar.

COLORADO DEPARTMENT OF HIGHWAYS
 TWO BRIDGES EACH 3 SPANS (48'-59'40") CONTINUOUS W/ BEAMS & CONCRETE SLAB, 38' ROADWAY-3'-3 1/2" CURBS-85° SKEW ABUTMENT NO. 4 AND DETAILS
 Across South Platte river at W. 6th ave
 North bridge sta 54+98.82 to sta 56+57.25
 South bridge sta 54+92.00 to sta 56+50.43
 In. Denver Sec. 5 T. 45 R. 68W

Designed by P. C. Made by T. J. M. Checked by *[Signature]*
 Approved by *[Signature]* Bridge Engineer
 Date: 4/4/55 1955

F-16-EE (North Bridge)
 STRUCTURE NO'S F-16-EF (South Bridge)

BAR LIST FOR SUPERSTRUCTURE FOR F-16-EE (SAME FOR F-16-EF)

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
401	1/2"	142	25'-0"	Str.				Spliced
402	1/2"	24	25'-3"	Str.				Spliced
403	1/2"	154	30'-0"	Str.				Spliced
404	1/2"	142	24'-6"	Str.				Spliced
405	1/2"	253	5'-1"	I	1'-2"	2'-10"		
501	3/8"	250	44'-6"	Str.				
502	3/8"	124	45'-11 1/2"	II				

BAR SUMMARY FOR SUPERSTRUCTURE
 13,541 Lin ft 1/2" @ 0.668%/ft = 9045*
 16,824 " " 3/8" @ 1.043%/ft = 17,547*
 1% Overrun = 268
 TOTAL = 26,860*

BAR LIST FOR ABUTMENT NO 1

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
410	1/2"	42	34'-0"	Str.				
411			27'-6"					
to	1/2"	1ea.	by 10' to	Str.				
414			30'-0"					
415			22'-7"					
to	1/2"	2ea.	by 10 1/2' to					
419			26'-0"					
420	1/2"	13	17'-2"	Str.				
421			3'-6 1/2"					
to	1/2"	1ea.	by 2'-4 3/4"	Str.				
426			to 15'-6"					
427	1/2"	94	11'-1 1/2"	IX	2'-6"	3'-8"		
428			29'-4"					
to	1/2"	1ea.	by 8' to	Str.				(Field Bend)
431			31'-4"					
432			24'-8"					
to	1/2"	2ea.	by 10' to	Str.				(Field Bend)
436			28'-0"					
437	1/2"	13	19'-2"					
438			4'-2"					
to	1/2"	1ea.	by 2'-8"	Str.				
443			17'-6"					
445	1/2"	46	20'-0"	Str.				
446	1/2"	46	27'-6"	Str.				
447	1/2"	22	19'-0"	Str.				
448	1/2"	14	8'-11"	IV	2'-0"	4'-2"		
449	1/2"	4	15'-1"	IX	4'-5 1/2"	5'-8"		
450	1/2"	8	1'-9"	Str.				
511			4'-0"					
to	3/8"	1ea.	by 1 1/4' to	Str.				
522			5'-7 3/4"					
523	3/8"	16	8'-2"	Str.				
524			4'-0"					
to	3/8"	1ea.	by 1 1/2' to	Str.				
536			5'-6"					
537	3/8"	18	8'-6"	Str.				
538	3/8"	20	11'-2"	Str.				
539	3/8"	77	5'-9"	Str.				
601	3/4"	4	3'-9"	Str.				
602	3/4"	2	17'-7"	III	13'-3"	2'-3"		
603	3/4"	2	8'-0"	III	4'-8"	1'-3"		
604	3/4"	2	17'-7"	III	13'-3"	2'-3"		
605	3/4"	2	7'-7"	III	4'-3"	1'-3"		
606	3/4"	6	3'-10"	Str.				
607	3/4"	82	1'-9"	Str.				
702	3/8"	2	11'-7"	III	7'-0"	2'-6"		
703	3/8"	3	7'-10"	III	4'-5"	1'-4"		
704	3/8"	2	12'-7"	III	7'-10"	2'-8"		
705	3/8"	5	4'-4"	Str.				
706	3/8"	2	11'-4"	III	6'-10"	2'-5"		
707	3/8"	2	7'-3"	III	3'-10"	1'-4"		
708	3/8"	2	12'-3"	III	7'-7"	2'-7"		
709	3/8"	2	8'-1"	III	4'-7"	1'-5"		
710	3/8"	2	13'-4"	III	8'-5"	2'-10"		
711	3/8"	2	8'-11"	III	5'-4"	1'-6"		
712	3/8"	117	5'-3"	Str.				
713	3/8"	6	4'-6"	Str.				
801	1"	2	7'-10"	III	4'-4"	1'-5"		
802	1"	2	13'-10"	III	8'-11"	2'-10"		
803	1"	2	8'-9"	III	5'-2"	1'-6"		
804	1"	2	14'-10"	III	9'-9"	3'-0"		
805	1"	2	9'-8"	III	6'-0"	1'-7"		
806	1"	2	15'-10"	III	10'-7"	3'-2"		
807	1"	9	5'-3"	Str.				
808	1"	2	14'-5"	III	9'-4"	3'-0"		
809	1"	2	8'-9"	III	5'-1"	1'-7"		
810	1"	2	15'-4"	III	10'-1"	3'-2"		
811	1"	2	9'-8"	III	5'-11"	1'-8"		
812	1"	8	5'-3"	Str.				
813	1"	95	10'-6"	III	6'-5"	2'-0"		
814	1"	100	22'-6"	III	16'-6"	3'-11"		
815	1"	20	16'-11"	III	10'-11"	3'-11"		

BAR LIST FOR ABUT NO 1 (Cont'd)

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
816	1"	20	10'-6"	III	6'-5"	2'-0"		
901	1 1/8"	2	9'-6"	III	5'-9"	1'-8"		
902	1 1/8"	2	17'-0"	III	11'-6"	3'-5"		
903	1 1/8"	2	10'-6"	III	6'-8"	1'-9"		
904	1 1/8"	2	18'-1"	III	12'-5"	3'-7"		
905	1 1/8"	2	11'-6"	III	7'-6"	1'-11"		
906	1 1/8"	2	19'-1"	III	13'-3"	3'-9"		
912	1 1/8"	2	16'-6"	III	11'-0"	3'-5"		
913	1 1/8"	3	9'-11"	III	6'-0"	1'-10"		
914	1 1/8"	2	17'-5"	III	11'-9"	3'-7"		
915	1 1/8"	2	10'-9"	III	6'-9"	1'-11"		
916	1 1/8"	2	18'-4"	III	12'-6"	3'-9"		
917	1 1/8"	2	11'-7"	III	7'-6"	2'-0"		
918	1 1/8"	2	19'-3"	III	13'-3"	3'-11"		

SUMMARY ABUTMENT NO 1
 6613 Lin ft 1/2" @ 0.668%/ft = 4417
 1069 Lin ft 3/8" @ 1.043%/ft = 1115
 283 " " 3/4" @ 1.502%/ft = 425
 857 " " 7/8" @ 2.044%/ft = 1,752
 4123 " " 1" @ 2.670%/ft = 11,008
 389 " " 1 1/8" @ 3.400%/ft = 1,323
 1% Overrun = 200
 Total 20,240*

BAR LIST FOR ONE PIER

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
451	1/2"	56	15'-3"	Str.				
452	1/2"	26	27'-2"	I	13'-3"	0'-8"		
453	1/2"	1	2'-6"	Str.				Ftg. Dowel
454	1/2"	1	21'-0"	Str.				
455			7'-8"		1'-6 1/2"	1'-7 1/2"		
to	1/2"	1ea.	by 2 1/4' to	Str.		by 1/2' by 1/2'		
474			11'-2 1/2"			to 2'-4' to 2'-5 1/2"		
475			6'-10"		1'-6 1/2"	1'-6 1/2"		
to	1/2"	2ea.	by 2' to	Str.		by 1/2' by 1/2'		
494			10'-0"			to 2'-4' to 2'-4"		
541	3/8"	32	6'-0"	Str.				
542	3/8"	16	6'-5"	Str.				
543	3/8"	88	7'-10 1/2"	VII	2'-5 1/2"	1'-1 1/8"		
610	3/4"	6	10'-10"	VI				
925	1 1/8"	8	11'-0"	Str.				
926	1 1/8"	4	10'-6"	Str.				
927	1 1/8"	8	41'-6"	Str.				
1001	1 1/8"	6	8'-6"	Str.				
1002	1 1/8"	6	17'-6"	Str.				
1101	1 1/8"	24	4'-0"	Str.				
1102	1 1/8"	12	22'-0"	Str.				

BAR LIST FOR ABUTMENT NO 4

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
4100	1/2"	45	34'-4"	Str.				
4101			22'-4"					
to	1/2"	2ea.	by 11' to	Str.				(Field Bend)
4105			26'-0"					
4106			27'-0"					
to	1/2"	1ea.	by 12' to	Str.				(Field Bend)
4110			31'-0"					
4111	1/2"	13	17'-8"					
412			2'-6"					
to	1/2"	1ea.	by 2'-5 1/2"	Str.				
4118			to 17'-3"					
4119	1/2"	60	20'-0"	Str.				
4120	1/2"	60	28'-6"	Str.				
4121			25'-0"					
to	1/2"	2ea.	by 10 1/2' to	Str.				(Field Bend)
4125			28'-6"					
4126			29'-0"					
to	1/2"	1ea.	by 10 1/2' to	Str.				(Field Bend)
4130			32'-6"					
4131	1/2"	87	15'-0"	V	12'	4'-6 1/2"		
4132	1/2"	13	19'-8"	Str.				
4133			2'-6"					
to	1/2"	1ea.	by 2'-9"	Str.				
4139			19'-0"					
4143	1/2"	7	15'-3"	IX	4'-7 1/2"	5'-10"		
4144	1/2"	2	5'-0"	Str.				
4145	1/2"	8	16'-9"	V	1'-11"	5'-4 1/2"		
4146	1/2"	4	16'-10"	IX	5'-4"	6'-8"		
4147	1/2"	23	19'-0"	Str.				
4148	1/2"	15	3'-10"	IV	2'-0"	5'-1"		
550	3/8"	85	6'-4"	Str.				
551			4'-3"					
to	3/8"	1ea.	by 1 1/2' to	Str.				
562			5'-7 1/2"					
563	3/8"	16	8'-6"	Str.				
564			4'-3"					
to	3/8"	1ea.	by 1 1/4' to	Str.				
577			5'-7 1/2"					
578	3/8"	18	8'-6"					
579	3/8"	22	11'-2"	Str.				
620	3/4"	4	4'-0"	Str.				
621	3/4"	2	7'-11"	III	4'-6"	1'-4"		
622	3/4"	2	18'-5"	III	13'-11"	2'-5"		
623	3/4"	3	8'-6"	III	5'-0"	1'-5"		

BAR SUMMARY ABUTMENT NO 4
 8100 Lin ft 1/2" @ 0.668%/ft = 5410
 1201 " " 3/8" @ 1.043%/ft = 1254
 295 " " 3/4" @ 1.502%/ft = 444
 884 " " 7/8" @ 2.044%/ft = 1807
 4594 " " 1" @ 2.670%/ft = 12,266
 474 " " 1 1/8" @ 3.400%/ft = 1,612
 1% Overrun = 227
 TOTAL 23,026*

BAR LIST FOR ABUT. NO 4 (Cont'd)

MARK	SIZE	REQD	LENGTH	TYPE	DIMENSIONS			
					2	m	n	t
624	3/4"	2	18'-6"	III	13'-11"	2'-6"		
625	3/4"	5	4'-0"	Str.				
627	3/4"	82	1'-9"	Str.				
720	7/8"	4	4'-6"	Str.				
721	7/8"	129	5'-4"	Str.				
723	7/8"	2	7'-9"	III	4'-3"	1'-5"		
724	7/8"	3	12'-11"	III	8'-3"	2'-7"		
725	7/8"	2	8'-7"	III	5'-0"	1'-6"		
726	7/8"	2	12'-4"	III	7'-7"	2'-8"		
727	7/8"	2	7'-11"	III	4'-4"	1'-6"		
728	7/8"	2	13'-3"	III	8'-4"	2'-10"		
729	7/8"	2	8'-9"	III	5'-1"	1'-7"		
730	7/8"	5	4'-6"	Str.				
818	1"	22	18'-2"	III	11'-11"	4'-2"		
819	1"	22	11'-1"	III	6'-11"	2'-1"		
820	1"	10	5'-6"	Str.				
821	1"	2	22'-4 1/2"	III	16'-2"	4'-1 1/2"		
822	1"	3</						