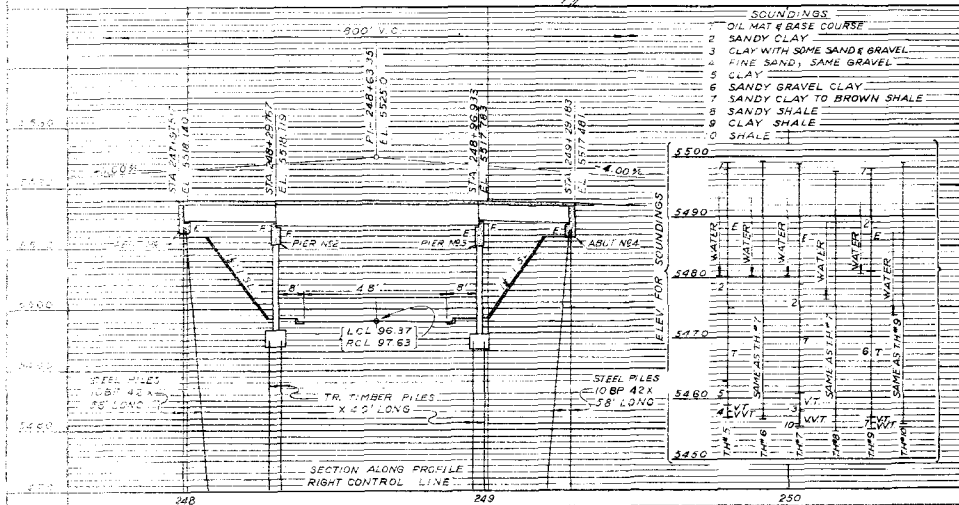
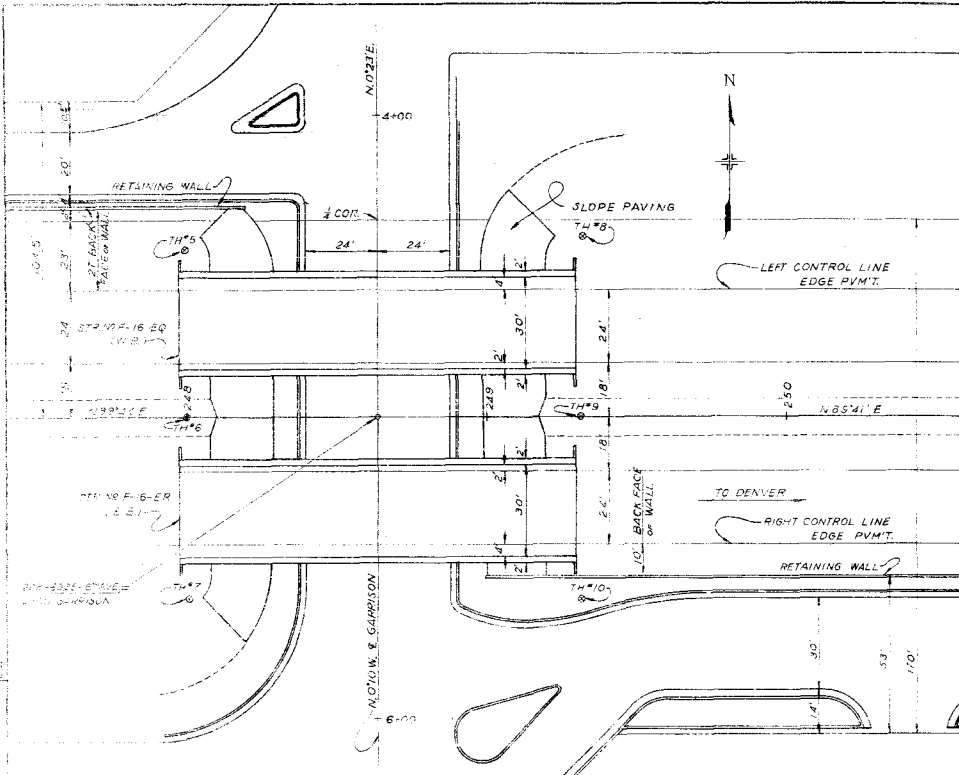


FED. ROAD DIST. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F012-2(B)	14	



ITEM	DESCRIPTION	UNIT	SUPERSTRUCT								TOTALS	TOTALS		
			E-16-EQ	E-16-ER	ABUT 1	PIER 2	PIER 3	ABUT 4	E-16-EQ	E-16-ER				
1 A	UNCLASS. STRUCT. EXCAV-BRIDGE	CU. YD.			4	4	23	23	24	25	4	3	55	55
1 B	STRUCTURE BACKFILL (CLASS 1)	CU. YD.					14	14	16	16			30	30
4 6	CLASS 'A' CONCRETE	CU. YD.	1260	1260	117	117	218	218	218	218	117	117	193	193
4 7	REINFORCING STEEL (INCL. 1/2 FOR OVERRUN)	LBS	27,220	27,220	1,265	1,265	5,300	5,160	5,300	5,160	1,265	1,265	40,350	40,070
4 8	STRUCTURAL STEEL (INCL. 1/2 FOR PAINT)	LBS	73,300	73,300	345	345	795	795	785	785	345	345	7,570	7,570
4 8	STRUCTURAL STEEL (HANDRAIL & POSTS)	LBS	9570	9570	520	520					520	520	10,610	10,610
6 0	TREATED TIMBER PILING	LIN. FT.					480	480	480	480			960	960
6 1	STEEL PILING (10" BP @ 42")	LIN. FT.			232	232					232	232	464	464
6 5	CONC. SLOPE & DITCH PAVING (W/WIRE MESH)	CU. YD.			28	27					27	23	55	50
8 0	SHEET COPPER (32 OZ.)	LBS	15	15									15	15
9 0	1/2" ELECTRIC CONDUIT WITH JUNCT. BOXES	LIN. FT.	170	170									170	170
1	16 GA. GALV. SHEET METAL	SQ. FT.	115	115									115	115
2	1/2" EXP'N JOINT MAT'L (TYPE III)	SQ. FT.			5	5	35	35			5	5	45	45
2	1/2" EXP'N JOINT MAT'L (TYPE I)	SQ. FT.			35	35			35	35	35	35	105	105

NOTE: ① TO BE INCLUDED IN THE BID PRICE FOR ITEM 46
 ② TO BE IN ACCORDANCE WITH AASHTO SPEC M 153-54 AND INCLUDED IN THE BID PRICE FOR ITEM 46
 ③ TO BE GALV. IN ACCORDANCE WITH SPECIAL PROVISIONS

SOUNDING LEGEND
 E = EASY
 T = TIGHT
 VT = VERY TIGHT
 VVT = VERY VERY TIGHT

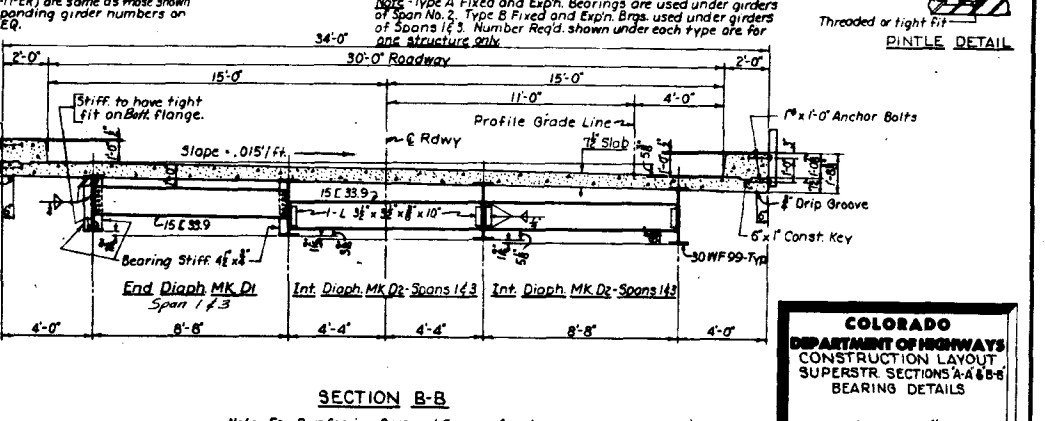
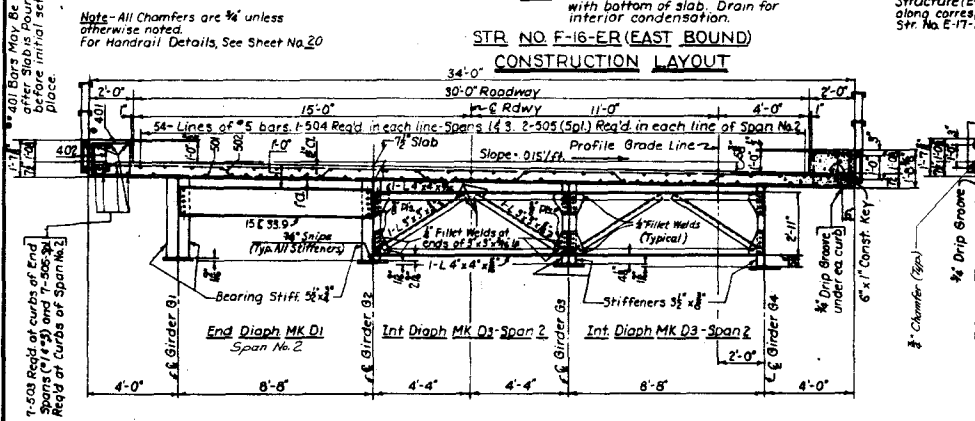
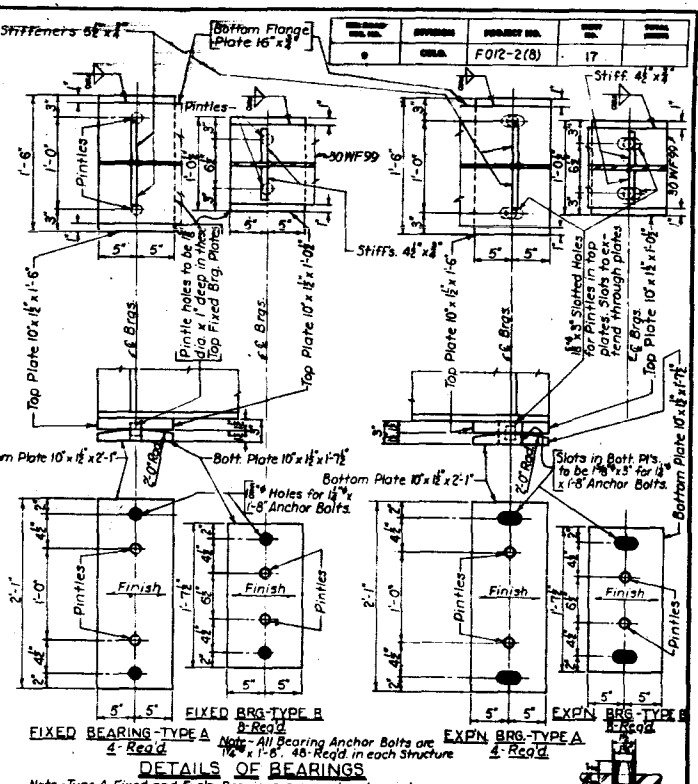
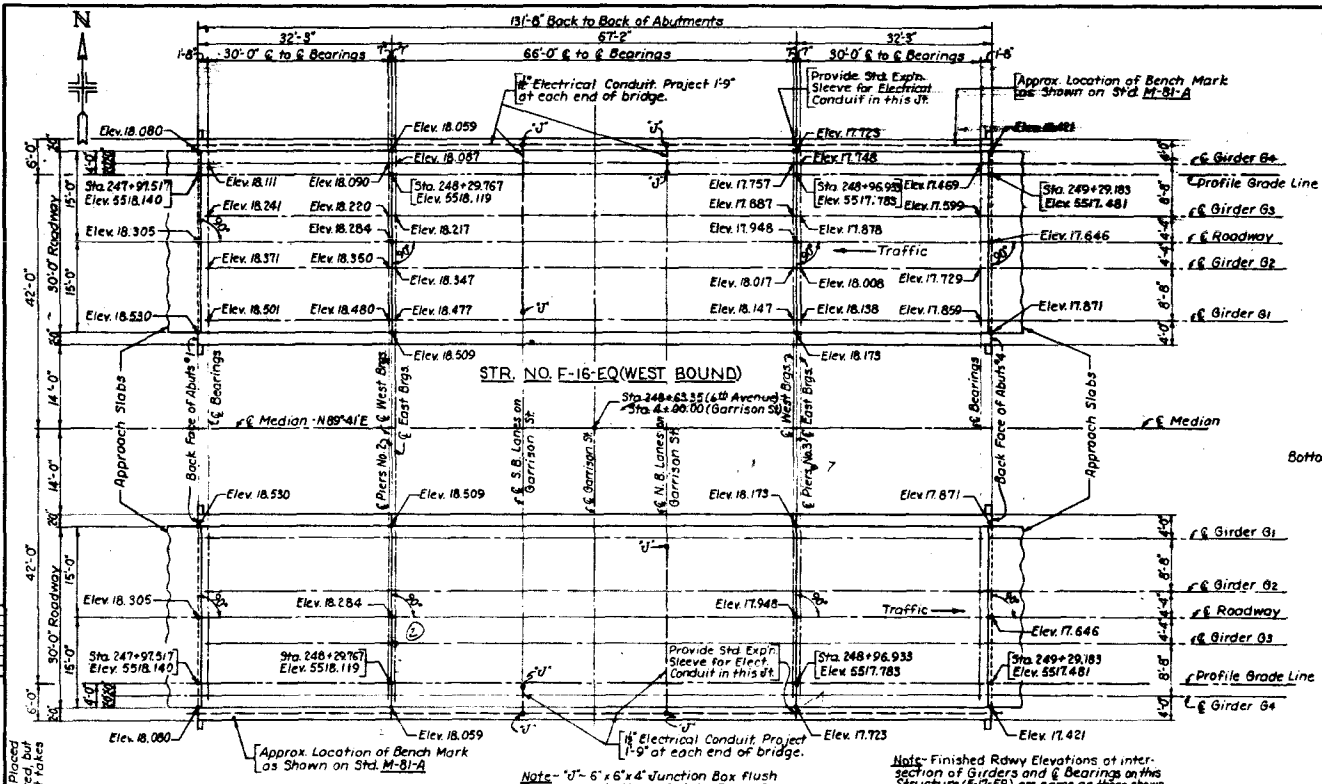
GENERAL NOTES
 ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO DEPARTMENT OF HIGHWAYS APPLICABLE TO THE PROJECT.
 ALL CONCRETE SHALL BE CLASS 'A'.
 ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE STEEL OF A BIRMINGHAM TYPE. EACH BAR SHALL BE TAGGED WITH THE BAR IDENTIFICATION AND STATION NUMBER OF THE PROJECT.
 IF BY REMOVAL OF THE REINFORCING PRIMARY BARS ARE SHOWN, THEY SHALL BE A MINIMUM OF 3" SPACED FOR BARS NEAR TOP OF BEAMS HAVING MORE THAN 12 INCHES OF CONCRETE UNDER THE BARS AND 12" SPACED FOR BARS NEAR BOTTOM OF MEMBERS. SECONDARY BARS WHEN ORDERED SHALL BE 1/2" DIAMETERS OF THE SIZE.
 DIMENSIONS FOR REINFORCING STEEL NOT SHOWN AS CLEAR SHALL BE TO THE CENTERLINE OF THE BAR.
 SOUNDINGS AND DEPTH OF FOOTINGS ARE IN ACCORDANCE WITH THE BEST AVAILABLE DATA AND WHEN DIFFERENT CONDITIONS ARE ENCOUNTERED THE BRIDGE ENGINEER WILL IMPROVE AND DETERMINE, IF NECESSARY, IS NECESSARY.
 FOOTINGS IN ROCK SHALL BE PILED OUT TO ROCK AND NOT REMOVED.
 WHEN DETERMINING FOR FOOTINGS THE FINAL ONE FOOT IN DEPTH SHALL BE DONE BY HAND-LAID METHODS.
 FOR DETAILS OF STRUCTURAL LIGATION AND STRUCTURE BACKFILL SEE STANDARD M.S.A. ALL CONCRETE SURFACES EXPOSED TO THE STRUCTURE SHALL BE FINISHED TO SHEET 00-22. SHALL RECEIVE CLASS 'A' SURFACE FINISH.
 ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF ZINC CARBONATE AND TWO FIELD COATS OF ALUMINUM PAINT UNLESS OTHERWISE NOTED.
 HIGH TENSILE BOLTS MAY BE SUBSTITUTED FOR FIELD BOLTS AT THE CONTRACTOR'S OPTION. BOLTS SHALL BE PROVIDED IN THE AMOUNT OF FIVE PERCENT IN EXCESS OF THE NOMINAL NUMBER REQUIRED FOR EACH SIZE AND LENGTH.
 WELDING SHALL CONFORM TO THE LATEST EDITION OF THE A.S.S. STANDARD SPECIFICATIONS FOR WELDING HIGHWAY BRIDGES.
 FOR WELDED GIRDERS ALL SHOP RIBS, WELDS IN FLANGES AND WEBS SHALL BE MADE BEFORE WELDING INTO GIRDERS.
 WHEN CALLED FOR IN THE SPECIAL PROVISIONS, SHOP WELDS SHALL BE INSPECTED RADIOGRAPHICALLY AND BY THE INTERMETAL DYE METHOD.
 WHEN TREATED TIMBER PILING IS SHOWN ON THE PLANS, THE PRESERVATIVE FOR TREATMENT SHALL BE CROSCOTE OIL.
 ALL STRUCTURAL STEEL, NOT OTHERWISE NOTED SHALL BE ASTM A-36-58T EXCEPT BRG PLATES (TUBULAR RAIL POSTS).

LOADING DATA
 LIVE LOAD: A. A. S. H. D. 1400-SIG (C&G)
 DEAD LOAD: 150 LBS PER SQ. FT. ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/2" INCH CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

DESIGNING DATA
 1. A. A. S. H. D. 1400 UNIT STRESSING
 2. 1200 LBS PER SQ. FT. (Including Wearing Surface)
 3. 10
 4. 2000 LBS PER SQ. FT. (Structural Steel) A-36
 5. 1000 LBS PER SQ. FT. (Structural Steel) A-36

COLORADO DEPARTMENT OF HIGHWAYS
 3-SPAN BRIDGE (30'-66'-30')
 30' SPANS CONCRETE SLAB & BEAM
 66' SPAN CONCRETE SLAB & WELDED GIRDERS
 30' ROADWAY CURBS 30' SKENS
 GENERAL LAYOUT SUMMARY OF QUANTITIES & GENERAL NOTES
 Across GARRISON @ 6TH AVE.
 Sta. 247+82.10 TO 249+28.10
 Near DENVER - S.A.S. 701-265-8350
 Designed by W.Z. Approved by *[Signature]*
 Made by A. J. T. Bridge Engineer
 Checked by *[Signature]* Date: Dec. 7, 1962

STRUCTURE NO. F-16-EQ (W. BOUND) F-16-ER (E. BOUND)



SECTION A-A

SECTION B-B

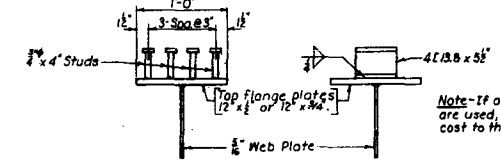
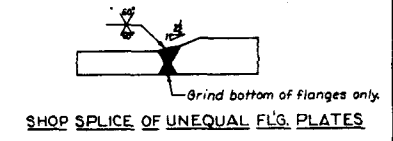
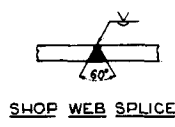
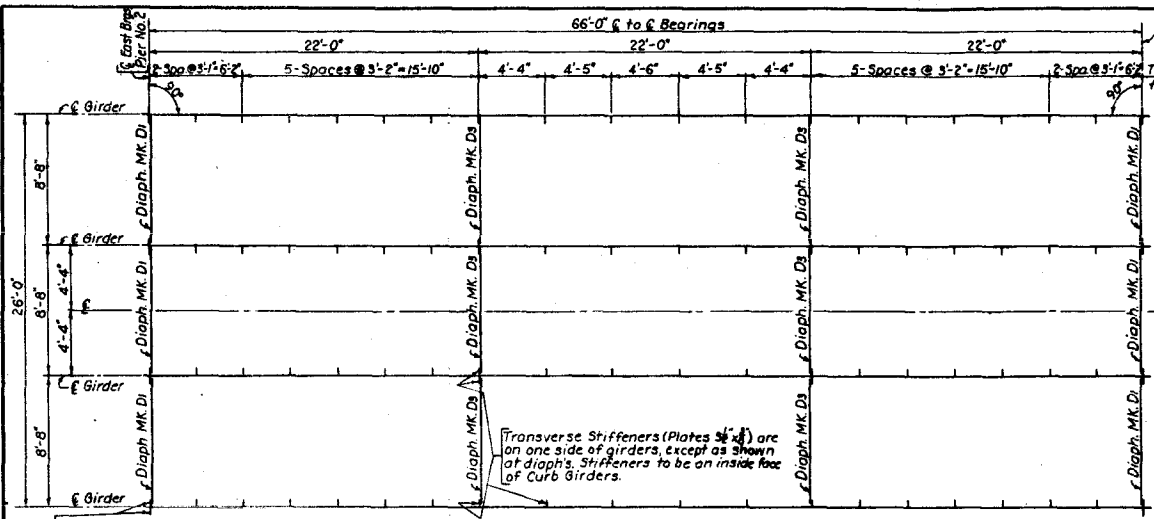
Note - For Reinforcing Bars and Spacing for above Section, refer to Section A-A, this sheet.

COLORADO
DEPARTMENT OF HIGHWAYS
CONSTRUCTION LAYOUT
SUPERSTR. SECTIONS A-A & B-B
BEARING DETAILS

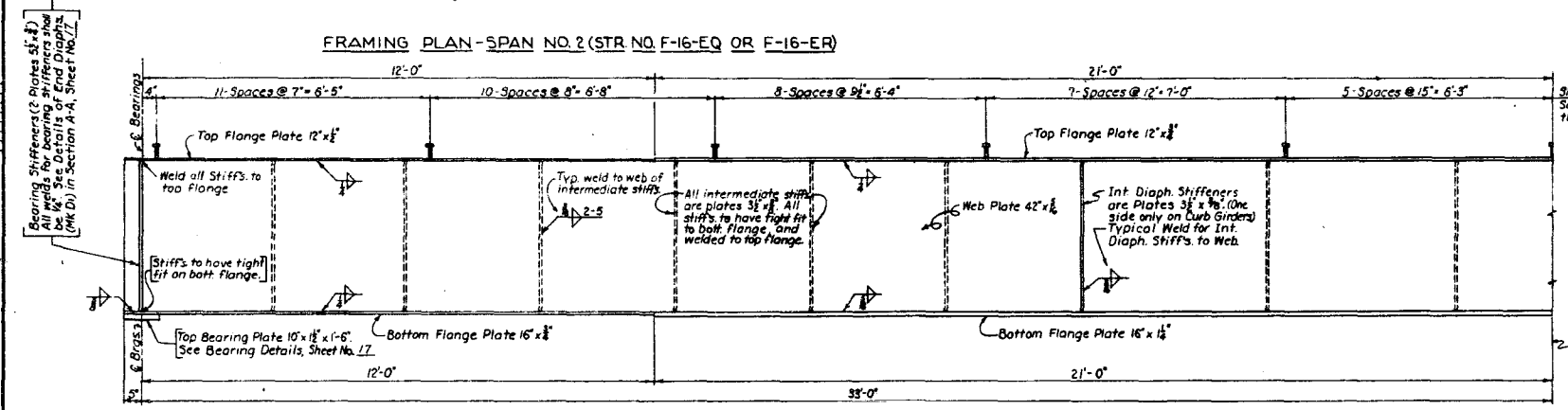
Approved by P. Z. [Signature]
 Made by B. D. E. [Signature]
 Checked by [Signature]
 Date Dec. 7, 1962

F-16-EQ (West Bound)
 STRUCTURE NO. F-16-ER (East Bound)

REV. NO.	DESCRIPTION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
0	CONS.	FO12-2(8)	18	



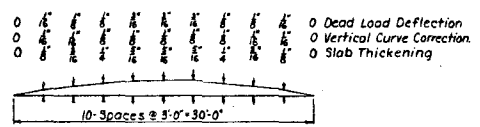
DETAILS OF SHEAR CONNECTORS & SHOP WEB, FLANGE PLATE WELDS



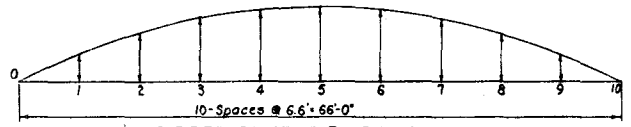
Shear Connector Spacing - Typ. See Shear Connector Details, on this sheet.

Note - See Framing Plan on this sheet for stiffener spacing.

Symm. about this C/L of Span.



SLAB THICKENING DIAGRAM
Note: The above Slab Thickening Diagram is typical for Spans 1 and 3.



GIRDER CAMBER DIAGRAM
Note: Girder Camber Diagram above is typical for all girders in Span No. 2. Cut girder web to camber, as shown on bott. line of table below. Slab remains constant 1 1/2" thick.

	Point	1	2	3	4	5	6	7	8	9	10
Dead Load Deflection	%	3/8	7/8	1 1/8	1 1/2	1 3/8	1 1/2	7/8	3/8	0	0
Vertical Curve Correction	%	3/8	7/8	1 1/8	1 1/2	1 3/8	1 1/2	7/8	3/8	0	0
Girder Web Camber	%	7	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	0	0

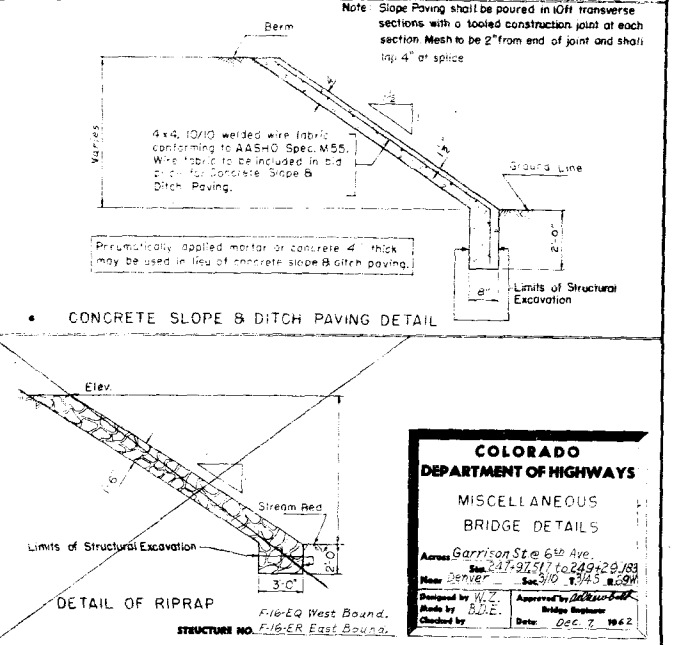
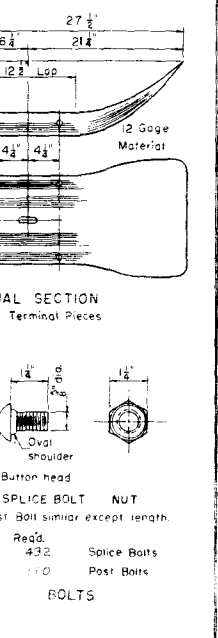
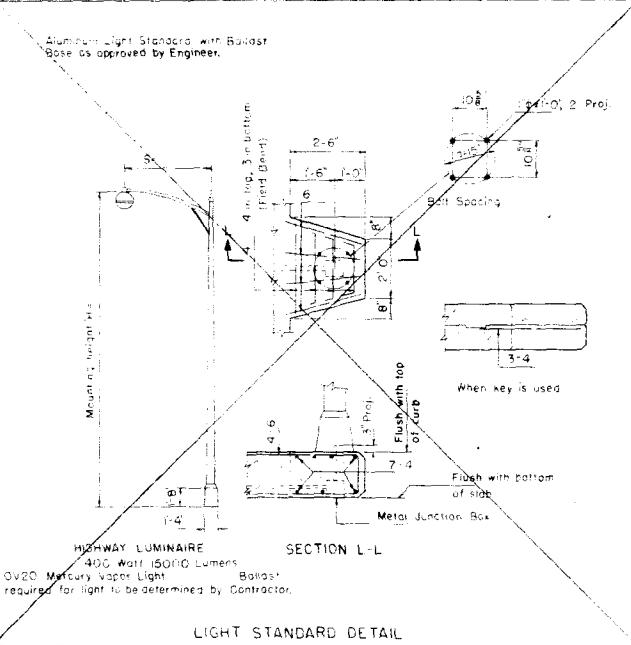
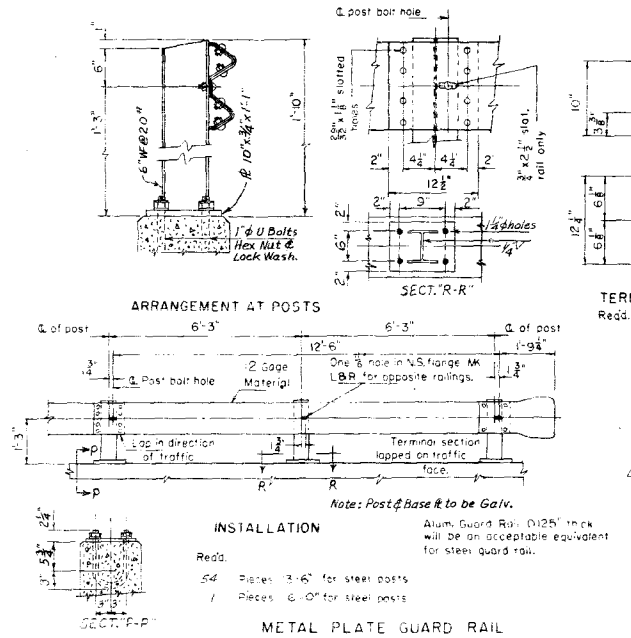
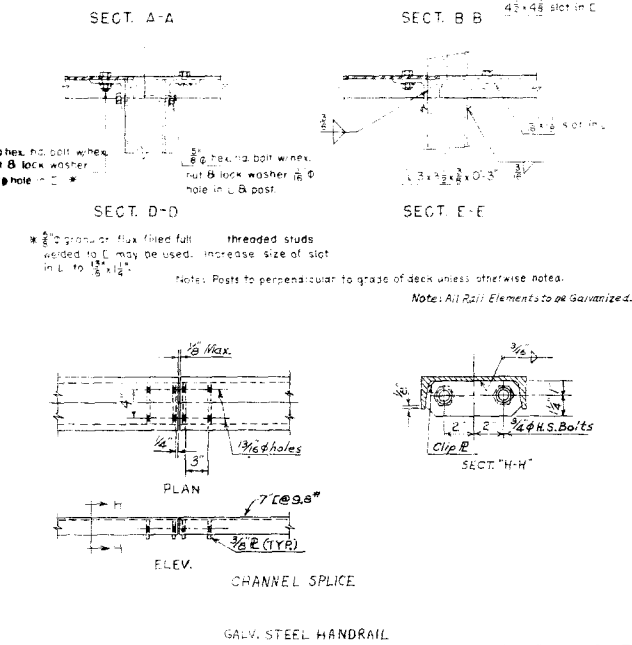
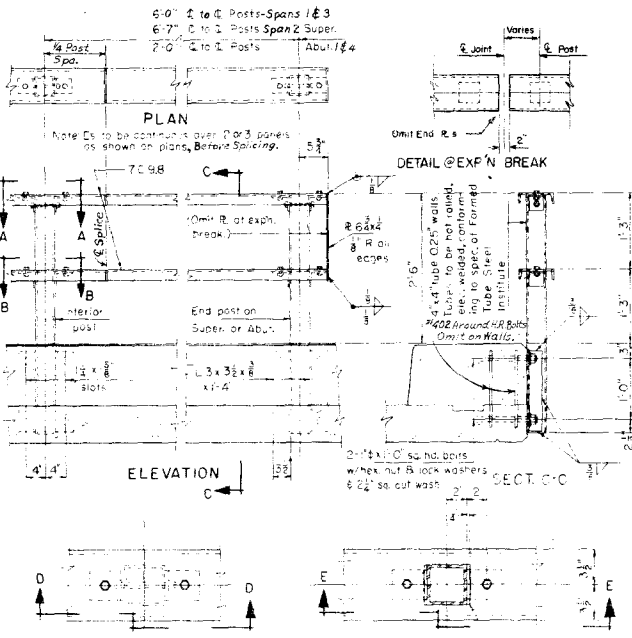
COLORADO
DEPARTMENT OF HIGHWAYS
GIRDER DETAILS - SPAN 2,
CAMBER & SLAB THICKENING
DIAGRAMS.

Approved by: *Garrison St. @ 5th Avenue*
Date: *12-1-15 to 2-1-16*
Checked by: *Denver* Date: *3/10/15*

Designed by: *B. E.* Approved by: *B. E.*
Checked by: *B. E.* Date: *Dec. 7, 1962*

REV. NO.	DESCRIPTION	DATE	BY	CHECKED
1	As Shown			

Rev. Rail Splice Detail (Delete Butt Welds) 2-14-63 D.S.M.



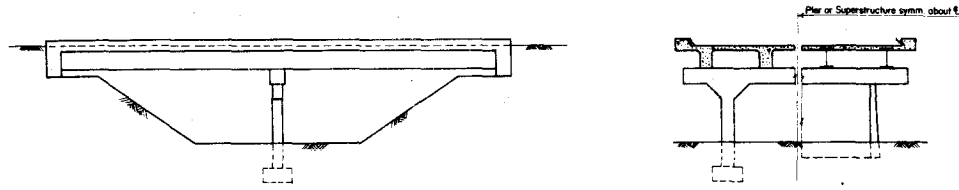
COLORADO DEPARTMENT OF HIGHWAYS
 MISCELLANEOUS BRIDGE DETAILS

Approved by: *[Signature]*
 Date: Dec. 7, 1962

Designed by: W.J.Z.
 Made by: B.J.E.
 Checked by: *[Signature]*

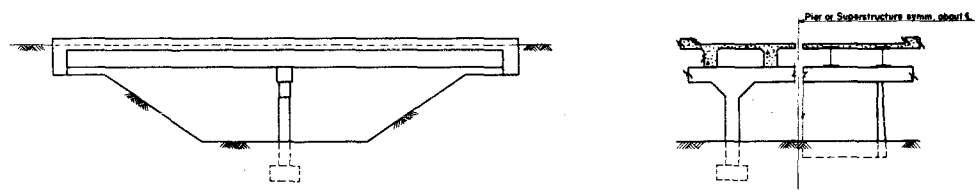
Structure No. 116-ER East Bound.

FED. ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	FOI2-2(B)	21	



PIER AND SUPERSTRUCTURE

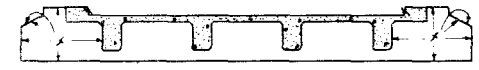
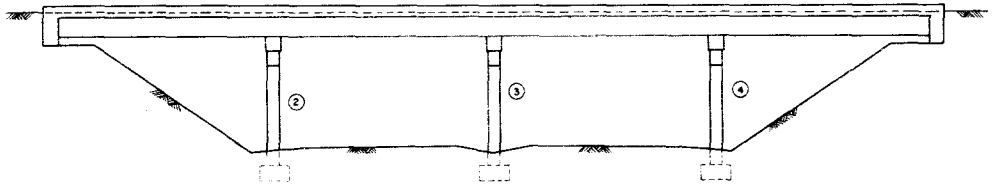
RURAL STREAM CROSSING



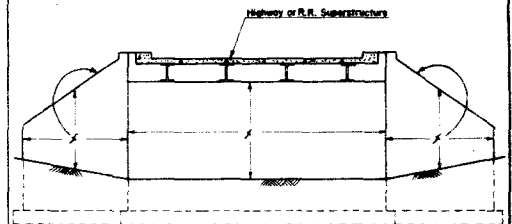
PIER AND SUPERSTRUCTURE

STREAM CROSSING IN OR NEAR URBAN AREA

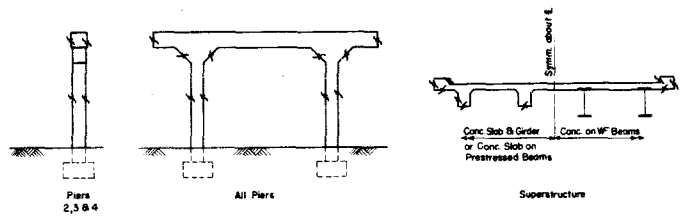
INITIAL	DATE



STUB ABUTMENTS
(Underpass Only)

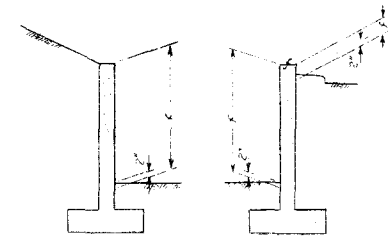


CANTILEVER ABUTMENTS
(Underpass Only)



In case of round columns the whole column shall receive Class "I" finish on all Piers.

UNDERPASS



RETAINING WALLS

COLORADO
DEPARTMENT OF HIGHWAYS

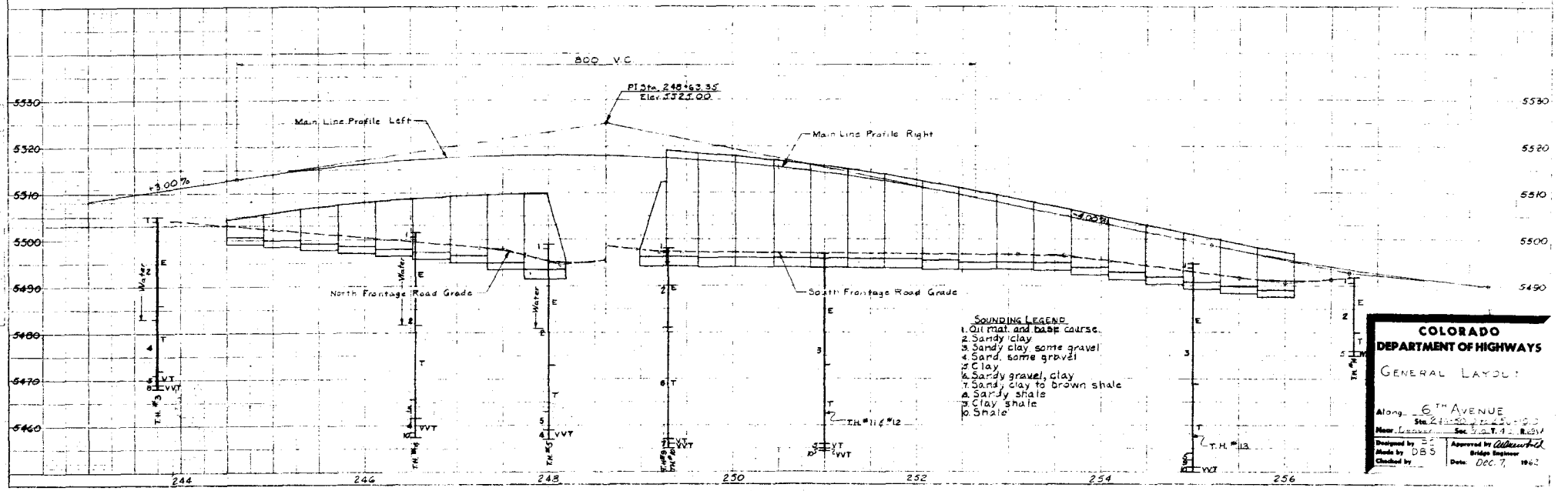
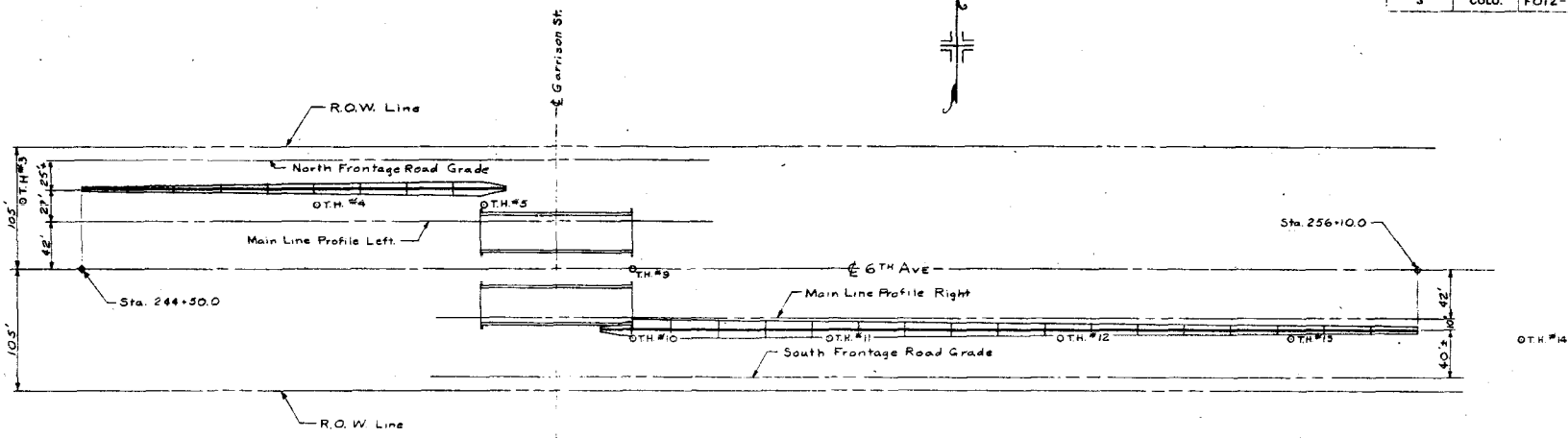
DETAILS SHOWING PORTIONS OF STRUCTURE TO RECEIVE CLASS "I" SURFACE FINISH.

Across Garrison St
Sta. 241+37.5 to 249+24.12
Near Center — Sta. 310+36.5 to 694

Designed by D.N. Approved by [Signature]
Made by R.R.A.-J.R. Bridge Engineer
Checked by [Signature] Date: Dec. 7, 1962

STRUCTURE NO. F-16-EO (W.B.)
F-16-ER (E.G.)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FO12-2(8)	22	



COLORADO DEPARTMENT OF HIGHWAYS

GENERAL LAYOUT

Along **6TH AVENUE**
 Sta. 244+50.0 to 256+10.0
 Main Engineer: _____ Sec. 3, A. T. 1 - R. 251

Designed by: _____
 Made by: DBS
 Checked by: _____

Approved by: *Albert W. Hill*
 Bridge Engineer
 Date: Dec. 7, 1962

PER. ROAD DIST. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	CELO.	7012-200	23	

ITEM NO.	DESCRIPTION	UNIT	1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	11-2	12-2	13-2	14-2	15-2	16-2	17-2	18-2	TOTALS
1 4	URCASES, STRUCT. EXPOS. - MISC.	CU YD	20	23	22	23	23	28	29	29	28	29	28	28	28	27	28	27	28	27	28
1 5	STRUCTURE BECETIII (CLASS 1)	CU YD	12	15	20	10	11	7	10	13	23	20	21	22	23	27	20	22	20	18	228
4 6	CLASS "A" CONCRETE	CU YD	200	250	315	223	220	250	220	220	220	220	220	220	220	220	220	220	220	220	220
4 7	REINFORCING STEEL (INCL 1% FOR OVER RUN)	L.B.	2010	2700	3270	2240	2200	2500	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
7 2	STEEL WIRE MESH	SQ. FT.																			660
8	ASPH. JOINT MAT (AASHTO M33-54 TYPE B)	SQ. FT.																			368

ITEM NO.	DESCRIPTION	UNIT	1-N	2-N	3-N	4-N	5-N	6-N	7-N	8-N	9-N	TOTALS
1 4	URCASES, STRUCT. EXPOS. - MISC.	CU YD	22	22	27	31	40	47	57	60	72	388
1 5	STRUCTURE BECETIII (CLASS 1)	CU YD	12	15	15	17	23	26	30	42	38	220
4 6	CLASS "A" CONCRETE	CU YD	127	171	212	228	207	262	323	427	522	2222
4 7	REINFORCING STEEL (INCL 1% FOR OVER RUN)	L.B.	210	282	350	422	520	620	770	880	1020	4220
7 2	STEEL WIRE MESH	SQ. FT.										66

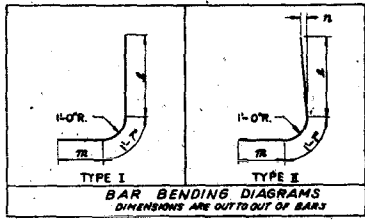
- ① TO BE BALD. IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- ② TO BE INCLUDED IN THE BID PRICE FOR ITEM 46.

COLORADO
DEPARTMENT OF HIGHWAYS

SUMMARY OF QUANTITIES
SOUTH RETAINING WALLS

DATE: 11/15/54
BY: T. A. BROWN
CHECKED BY: T. A. BROWN
DATE: 11/15/54

STRUCTURE NO.



BAR LIST - WALL 6 N.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	24	40'-0"	STR.			
415	1/2"	27	4'-7"	STR.			
418	1/2"	41	7'-0"	STR.			
507	1/2"	41	4'-3"	STR.			
801	1/2"	21	10'-4"	I	5'-10"	2'-11"	
802	1/2"	20	8'-11"	I	5'-10"	1'-6"	

BAR LIST - WALL 9 N. (CONT.)

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
1101	1/2"	17	17'-0"	II	10'-6"	4'-11"	1/2"
1102	1/2"	16	14'-8"	II	10'-6"	2'-5"	1/2"
1103	1/2"	17	16'-5"	I	10'-2"	4'-8"	
TO	1/2"	1 EA.	8'-20"	II	8'-20"	8'-20"	1/2"
1107	1/2"		13'-8"		8'-2"	4'-0"	

BAR LIST - WALL 3 S. (CONT.)

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
910	1/2"	31	8'-3"	STR.			
1110	1/2"	31	18'-9"	II	11'-0"	7'-2"	4"
1111	1/2"	30	13'-8"	II	8'-6"	3'-7"	3"

BAR LIST - WALL 8 S. (CONT.)

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
1012	1/2"	37	18'-9"	II	12'-4"	4'-10"	2"
1013	1/2"	30	10'-4"	II	6'-4"	2'-5"	1"

BAR LIST - WALL 4 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	47	40'-0"	STR.			
476	1/2"	31	6'-0"	STR.			
523	1/2"	27	8'-1"	STR.			
708	1/2"	61	8'-0"	STR.			
910	1/2"	31	8'-3"	STR.			
1112	1/2"	31	18'-11"	II	10'-6"	6'-10"	3/4"
1113	1/2"	30	13'-0"	II	8'-0"	3'-5"	2"

BAR LIST - WALL 9 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	34	40'-0"	STR.			
540	1/2"	31	6'-5"	STR.			
541	1/2"	61	5'-9"	STR.			
542	1/2"	27	6'-5"	STR.			
1014	1/2"	31	18'-1"	II	12'-1"	4'-5"	1/2"
1015	1/2"	30	10'-4"	II	6'-4"	2'-5"	1"

BAR LIST - WALL 5 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	44	40'-0"	STR.			
477	1/2"	27	6'-11"	STR.			
524	1/2"	27	7'-9"	STR.			
707	1/2"	54	7'-7"	STR.			
806	1/2"	27	6'-2"	STR.			
1114	1/2"	27	18'-6"	II	11'-6"	6'-5"	3/4"
1115	1/2"	27	12'-9"	II	8'-0"	3'-2"	2"

BAR LIST - WALL 10 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	31	40'-0"	STR.			
484	1/2"	41	6'-11"	STR.			
530	1/2"	27	5'-8"	STR.			
624	1/2"	41	5'-6"	STR.			
913	1/2"	41	7'-0"	STR.			
1125	1/2"	21	9'-11"	II	4'-7"	3'-6"	1/2"
1126	1/2"	20	8'-0"	II	4'-7"	1'-10"	1/2"

BAR LIST - WALL 6 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	41	40'-0"	STR.			
478	1/2"	27	5'-7"	STR.			
525	1/2"	27	7'-4"	STR.			
618	1/2"	54	7'-2"	STR.			
806	1/2"	27	6'-2"	STR.			
1118	1/2"	27	18'-8"	II	11'-3"	5'-10"	3/4"
1117	1/2"	27	12'-3"	II	7'-9"	2'-11"	2"

BAR LIST - WALL 11 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	29	40'-0"	STR.			
485	1/2"	41	6'-9"	STR.			
486	1/2"	27	5'-3"	STR.			
625	1/2"	41	5'-0"	STR.			
1008	1/2"	21	13'-4"	I	8'-7"	3'-2"	
1009	1/2"	20	11'-0"	I	8'-7"	1'-7"	

BAR LIST - WALL 7 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	40	40'-0"	STR.			
526	1/2"	27	7'-1"	STR.			
619	1/2"	61	6'-10"	STR.			
620	1/2"	31	8'-6"	STR.			
1010	1/2"	31	18'-5"	II	12'-4"	5'-6"	3/4"
1011	1/2"	30	12'-4"	II	8'-0"	2'-8"	2"

BAR LIST - WALL 12 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	25	40'-0"	STR.			
487	1/2"	41	6'-11"	STR.			
488	1/2"	27	4'-9"	STR.			
531	1/2"	41	4'-4"	STR.			
916	1/2"	21	11'-4"	I	7'-0"	2'-9"	
917	1/2"	20	10'-0"	I	7'-0"	1'-5"	

BAR LIST - WALL 7 N.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	27	40'-0"	STR.			
417	1/2"	27	5'-0"	STR.			
418	1/2"	41	6'-10"	STR.			
508	1/2"	41	4'-8"	STR.			
901	1/2"	21	11'-11"	I	7'-0"	5'-4"	
902	1/2"	20	10'-3"	I	7'-0"	1'-8"	

BAR LIST - WALL 1 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	11	6'-4"	STR.			
4106	1/2"	5	6'-8"	STR.			
4107	1/2"		11'-4"		7'-10"	1'-11"	
TO	1/2"	1 EA.	8'-20"	I	8'-20"	8'-20"	1/2"
4115	1/2"		4'-6"		2'-6"	0'-5"	
4116	1/2"	3	28'-8"	STR.			
4117	1/2"		28'-6"				
TO	1/2"	1 EA.	8'-20"	STR.			
4131	1/2"		7'-6"				
4132	1/2"		3'-9"				
TO	1/2"	1 EA.	8'-20"	STR.			
4140	1/2"		11'-5"				
4141	1/2"		2'-0"				
TO	1/2"	1 EA.	8'-20"	STR.			
4153	1/2"		5'-0"				
4154	1/2"		8'-0"				
TO	1/2"	3 EA.	8'-20"	STR.			
4158	1/2"		28'-0"				
550	1/2"	5	4'-10"	STR.			
551	1/2"	7	6'-0"	STR.			

BAR LIST - WALL 8 N.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	31	40'-0"	STR.			
419	1/2"	41	6'-5"	STR.			
509	1/2"	27	5'-9"	STR.			
607	1/2"	41	5'-7"	STR.			
1001	1/2"	21	14'-11"	II	9'-1"	4'-5"	0'-0"
1002	1/2"	20	12'-9"	II	9'-1"	2'-1"	0'-0"

BAR LIST - WALL 2 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
401	1/2"	13	40'-0"	STR.			
406	1/2"	54	2'-8"	STR.			
407	1/2"	14	7'-10"	I	5'-8"	0'-7"	
408	1/2"	13	8'-3"	I	8'-0"	0'-8"	
409	1/2"	14	8'-8"	I	6'-4"	0'-8"	

BAR LIST - WALL 9 N.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
421	1/2"	42	7'-1"	STR.			
422	1/2"		11'-7"		8'-0"	2'-0"	
TO	1/2"	1 EA.	8'-20"	II	8'-20"	8'-20"	1/2"
430	1/2"		4'-7"		2'-8"	0'-4"	
431	1/2"		4'-7"		2'-8"	0'-4"	
TO	1/2"	1 EA.	8'-20"	STR.			
437	1/2"		3'-8"				
438	1/2"		4'-0"				
TO	1/2"	1 EA.	8'-20"	STR.			
441	1/2"		4'-6"				
442	1/2"		11'-8"				
TO	1/2"	1 EA.	8'-20"	STR.			
454	1/2"		5'-8"				
455	1/2"	6	21'-6"	STR.			
456	1/2"		21'-3"				
TO	1/2"	1 EA.	8'-20"	STR.			
468	1/2"		3'-0"				
469	1/2"		5'-3"				
TO	1/2"	3 EA.	8'-20"	STR.			
472	1/2"		20'-0"				
473	1/2"	35	25'-0"	STR.			

BAR LIST - WALL 2 S.

MARK	SIZE	NO. REQ'D	LENGTH	TYPE	DIMENSIONS		
					L	W	R
638	1/2"		14'-8"		10'-6"	2'-2"	
TO	1/2"	1 EA.	8'-20"	II	8'-20"	8'-20"	1/2"
638	1/2"		12'-2"		8'-8"	2'-7"	
639	1/2"	11	5'-9"	STR.			
920	1/2"		13'-2"		8'-0"	3'-7"	
TO	1/2"	1 EA.	8'-20"	II	8'-20"	8'-20"	1/2"
924	1/2"		8'-9"		5'-4"	2'-10"	

FED. ROAD DIST. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
8	000	EQ10-268	25	1

BAR LIST - WALL 13 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	25	40'-0"	STR.		
480	#	21	7'-1"	STR.		
490	#	27	4'-6"	STR.		
532	#	41	4'-1"	STR.		
607	#	21	10'-4"	J	6'-3"	2'-6"
608	#	20	9'-1"	J	6'-3"	1'-3"

BAR LIST - WALL 14 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	24	40'-0"	STR.		
491	#	41	7'-1"	STR.		
492	#	41	3'-0"	STR.		
493	#	27	4'-4"	STR.		
808	#	21	9'-5"	J	5'-7"	2'-3"
810	#	20	8'-4"	J	5'-7"	1'-2"

BAR LIST - WALL 15 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	23	40'-0"	STR.		
494	#	41	7'-2"	STR.		
495	#	41	3'-0"	STR.		
496	#	27	4'-1"	STR.		
711	#	21	8'-6"	J	4'-1"	2'-0"
712	#	20	7'-6"	J	4'-1"	1'-0"

BAR LIST - WALL 16 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	21	40'-0"	STR.		
494	#	41	7'-2"	STR.		
497	#	27	3'-0"	STR.		
498	#	27	3'-10"	STR.		
713	#	21	7'-0"	J	4'-3"	1'-11"
714	#	20	6'-11"	J	4'-3"	1'-7"

BAR LIST - WALL 17 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	19	40'-0"	STR.		
499	#	27	3'-0"	STR.		
4100	#	27	3'-7"	STR.		
626	#	7	11'-0"	J	8'-7"	0'-10"
627	#	7	11'-11"	J	8'-8"	1'-8"
628	#	7	11'-7"	J	8'-7"	0'-11"
629	#	6	12'-7"	J	8'-2"	1'-10"
630	#	7	12'-3"	J	8'-8"	1'-0"
637	#	7	13'-2"	J	8'-7"	2'-0"

BAR LIST - WALL 18 S.						
MARK	SIZE	N.O.	LENGTH	TYPE	DIMENSIONS	
					L	T
401	#	19	40'-0"	STR.		
4101	#	27	2'-6"	STR.		
4102	#	27	3'-4"	STR.		
533	#	7	10'-11"	J	7'-11"	1'-5"
534	#	7	10'-4"	J	8'-0"	0'-9"
535	#	7	11'-6"	J	8'-5"	1'-6"
536	#	6	10'-11"	J	8'-6"	0'-10"
537	#	7	11'-5"	J	8'-11"	0'-11"
538	#	7	12'-0"	J	8'-10"	1'-7"

BAR SUMMARY - WALL 1 N.	
761 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 508
	PLUS 1% FOR OVERRUN = 12
	TOTAL = 510 LBS

BAR SUMMARY - WALL 2 N.	
993 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 663
	PLUS 1% FOR OVERRUN = 2
	TOTAL = 665 LBS

BAR SUMMARY - WALL 3 N.	
846 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 565
419 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 437
	PLUS 1% FOR OVERRUN = 8
	TOTAL = 1010 LBS

BAR SUMMARY - WALL 4 N.	
998 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 667
497 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 746
	PLUS 1% FOR OVERRUN = 12
	TOTAL = 1425 LBS

BAR SUMMARY - WALL 5 N.	
1434 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 958
325 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 664
	PLUS 1% FOR OVERRUN = 18
	TOTAL = 1640 LBS

BAR SUMMARY - WALL 6 N.	
1371 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 916
174 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 181
395 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 1035
	PLUS 1% FOR OVERRUN = 23
	TOTAL = 2175 LBS

BAR SUMMARY - WALL 7 N.	
1495 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 999
191 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 199
455 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 1547
	PLUS 1% FOR OVERRUN = 25
	TOTAL = 2770 LBS

BAR SUMMARY - WALL 8 N.	
1503 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1004
155 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 162
229 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 344
568 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 2444
	PLUS 1% FOR OVERRUN = 36
	TOTAL = 3990 LBS

BAR SUMMARY - WALL 9 N.	
1767 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1180
370 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 386
71 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 107
49 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 167
596 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 3167
	PLUS 1% FOR OVERRUN = 48
	TOTAL = 5055 LBS

BAR SUMMARY - WALL 1 S.	
872 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 582
66 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 69
117 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 176
57 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 194
183 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 972
	PLUS 1% FOR OVERRUN = 22
	TOTAL = 2015 LBS

BAR SUMMARY - WALL 2 S.	
1633 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1091
345 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 360
375 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 1001
1211 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 5211
	PLUS 1% FOR OVERRUN = 77
	TOTAL = 7740 LBS

BAR SUMMARY - WALL 3 S.	
2149 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1435
220 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 229
498 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 1018
256 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 870
1022 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 5430
	PLUS 1% FOR OVERRUN = 88
	TOTAL = 9070 LBS

BAR SUMMARY - WALL 4 S.	
2066 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1380
218 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 227
488 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 997
256 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 870
976 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 5185
	PLUS 1% FOR OVERRUN = 86
	TOTAL = 8745 LBS

BAR SUMMARY - WALL 5 S.	
1924 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1285
209 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 218
410 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 838
156 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 443
871 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 4620
	PLUS 1% FOR OVERRUN = 73
	TOTAL = 7485 LBS

BAR SUMMARY - WALL 6 S.	
1791 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1196
198 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 207
387 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 581
166 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 443
835 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 4436
	PLUS 1% FOR OVERRUN = 67
	TOTAL = 6930 LBS

BAR SUMMARY - WALL 7 S.	
1600 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1069
191 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 199
680 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 1021
972 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 4183
	PLUS 1% FOR OVERRUN = 63
	TOTAL = 6535 LBS

BAR SUMMARY - WALL 8 S.	
1520 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1015
786 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 820
891 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 3834
	PLUS 1% FOR OVERRUN = 56
	TOTAL = 5725 LBS

BAR SUMMARY - WALL 9 S.	
1580 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 968
883 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 723
871 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 3727
	PLUS 1% FOR OVERRUN = 51
	TOTAL = 5490 LBS

BAR SUMMARY - WALL 10 S.	
1534 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1018
155 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 162
226 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 339
287 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 976
368 LIN. FT.	1/2" @ 5.313 #/LIN. FT. = 1955
	PLUS 1% FOR OVERRUN = 25
	TOTAL = 4495 LBS

BAR SUMMARY - WALL 11 S.	
1579 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1055
205 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 308
515 LIN. FT.	1/2" @ 4.303 #/LIN. FT. = 2216
	PLUS 1% FOR OVERRUN = 39
	TOTAL = 3815 LBS

BAR SUMMARY - WALL 12 S.	
1412 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 943
176 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 186
436 LIN. FT.	1/2" @ 3.400 #/LIN. FT. = 1489
	PLUS 1% FOR OVERRUN = 27
	TOTAL = 2645 LBS

BAR SUMMARY - WALL 13 S.	
1412 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 943
167 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 174
399 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 1065
	PLUS 1% FOR OVERRUN = 23
	TOTAL = 2205 LBS

BAR SUMMARY - WALL 14 S.	
1521 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 1016
364 LIN. FT.	1/2" @ 2.670 #/LIN. FT. = 972
	PLUS 1% FOR OVERRUN = 17
	TOTAL = 2005 LBS

BAR SUMMARY - WALL 15 S.	
1468 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 981
328 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 670
	PLUS 1% FOR OVERRUN = 14
	TOTAL = 1665 LBS

BAR SUMMARY - WALL 16 S.	
1327 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 888
301 LIN. FT.	1/2" @ 2.044 #/LIN. FT. = 615
	PLUS 1% FOR OVERRUN = 14
	TOTAL = 1515 LBS

BAR SUMMARY - WALL 17 S.	
938 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 627
495 LIN. FT.	1/2" @ 1.502 #/LIN. FT. = 743
	PLUS 1% FOR OVERRUN = 15
	TOTAL = 1385 LBS

BAR SUMMARY - WALL 18 S.	
922 LIN. FT.	1/2" @ 0.668 #/LIN. FT. = 618
459 LIN. FT.	1/2" @ 1.043 #/LIN. FT. = 479
	PLUS 1% FOR OVERRUN = 10
	TOTAL = 1105 LBS

COLORADO
DEPARTMENT OF HIGHWAYS

BAR LIST & BAR SUMMARIES
FOR RETAINING WALLS

LIST - 135 THRU 185.
SUMMARIES - 1 N. THRU 18 N.

Across 5TH & GARDEN

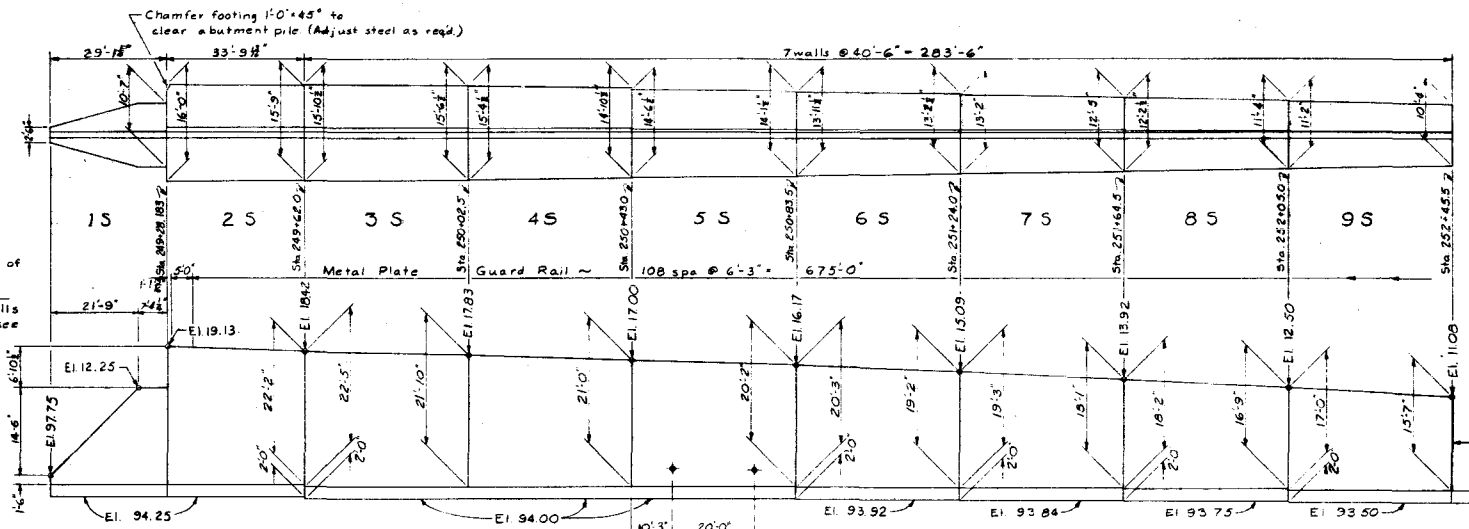
Near DENVER Sec. T. R.

Designed by _____
Checked by _____

Approved by _____
Bridge Engineer
Date: Dec. 7 1962

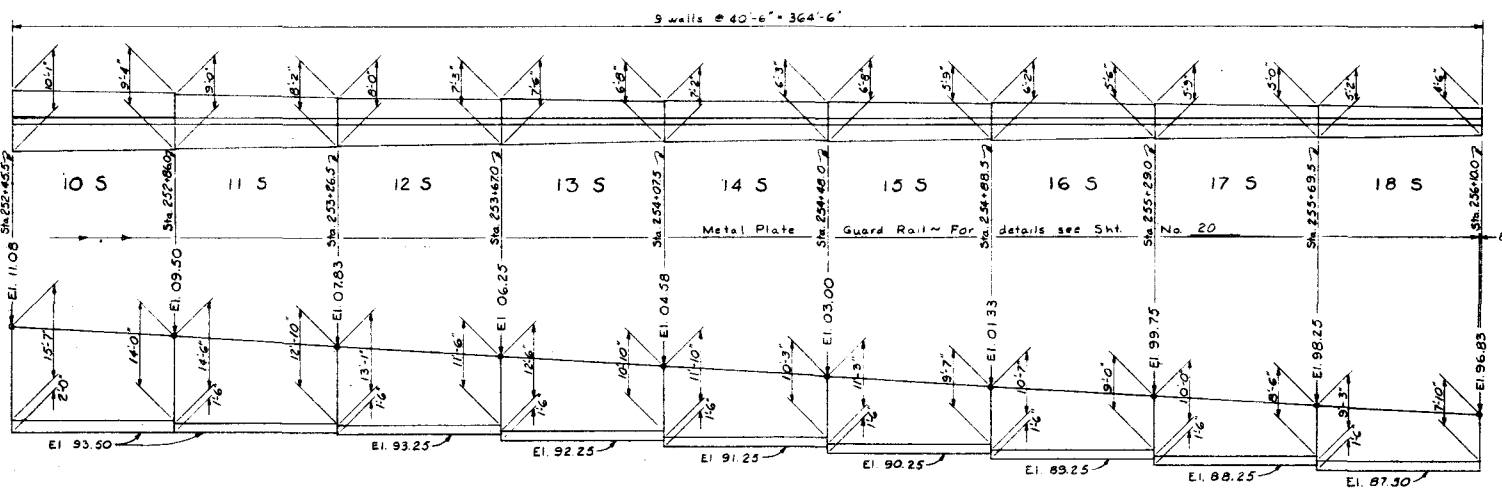
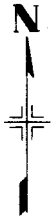
DESIGN SHEET NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
0	CELA	FO12-2(8)	26	

Note: For details of wall 1-5 see sheet no. 29
 For details of walls 2-5 thru 18-5, see sheet no. 27



Expn. Jt. Mat'l. (Type III)
 Typ. between walls only.

ELEVATION



ELEVATION

COLORADO
DEPARTMENT OF HIGHWAYS
 SOUTH
 RETAINING WALLS

Along **6TH AVENUE**
 Sta. 244+50.0 to 256+10.0
 Near Denver Sta. 70+7.45 - 1160

Designed by **PC**
 Checked by **DBS**

Approved by *[Signature]*
 Bridge Engineer
 Date **Dec. 7, 1962**

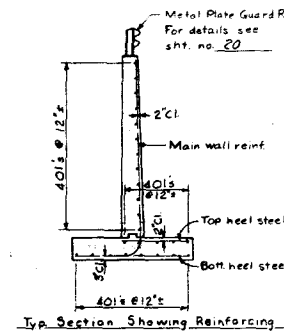
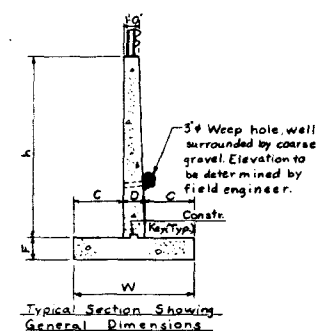
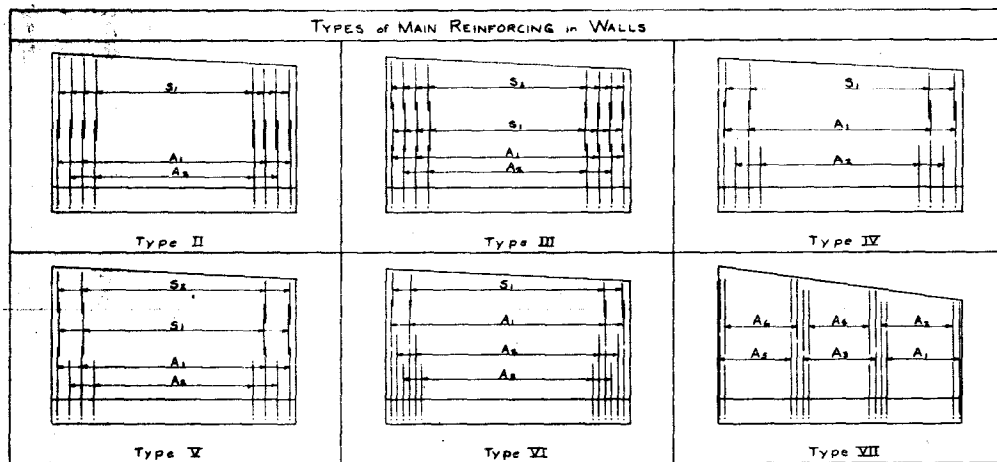
STRUCTURE NO.

REVISIONS

DRAWING NO.	DESIGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	GRG.	FO12-2(B)	27	

WALL NO.	WEST END	EAST END	REINF. TYPE	WALL STEEL						TOP HEEL REINF.	BOTT. HEEL REINF.	No. 401 IN FTG.	No. 401 IN WALL	CONSTR. KEY
				A ₁	A ₂	A ₃	A ₄	A ₅	A ₆					
2 S	22'-10"	22'-10"	VI	23-1008@1'-6"	22-1008@1'-6"	22-1007@1'-6"				23-521@1'-6"	23-520@1'-6"	26	23	7'-3"
3 S	22'-3"	21'-10"	V	31-1110@1'-4"	30-1110@1'-4"	30-1118@1'-4"				31-910@1'-4"	31-475@1'-4"	26	23	7'-3"
4 S	22'-0"	21'-0"	V	31-1112@1'-4"	30-1113@1'-4"					31-910@1'-4"	31-476@1'-4"	25	22	6'-3"
5 S	21'-0"	20'-2"	V	27-1114@1'-4"	27-1115@1'-4"					27-806@1'-6"	27-477@1'-6"	23	21	6'-3"
6 S	20'-3"	19'-2"	V	27-1114@1'-4"	27-1115@1'-4"					27-806@1'-6"	27-478@1'-6"	21	20	6'-3"
7 S	19'-3"	18'-1"	IV	31-1010@1'-4"	30-1011@1'-4"					31-620@1'-4"	31-619@1'-4"	20	20	5'-3"
8 S	18'-2"	16'-9"	IV	31-1012@1'-4"	30-1013@1'-4"					31-527@1'-4"	31-526@1'-4"	19	19	5'-3"
9 S	17'-0"	15'-7"	IV	31-1014@1'-4"	30-1015@1'-4"					31-540@1'-4"	31-541@1'-4"	17	17	5'-3"
10 S	15'-7"	14'-0"	III	21-1125@2'-0"	20-1126@2'-0"					41-915@1'-0"	41-484@1'-0"	15	16	4'-3"
11 S	14'-6"	13'-10"	II	21-1008@2'-0"	20-1009@2'-0"					41-485@1'-0"	41-625@1'-0"	14	15	4'-3"
12 S	13'-7"	11'-6"	II	21-916@2'-0"	20-917@2'-0"					41-487@1'-0"	41-521@1'-0"	12	13	4'-3"
13 S	12'-6"	10'-10"	II	21-807@2'-0"	20-808@2'-0"					41-489@1'-0"	41-332@1'-0"	12	13	4'-3"
14 S	11'-4"	10'-3"	II	21-809@2'-0"	20-810@2'-0"					41-491@1'-0"	41-492@1'-0"	12	12	4'-3"
15 S	11'-3"	9'-7"	II	21-711@2'-0"	20-712@2'-0"					41-494@1'-0"	41-495@1'-0"	11	12	4'-3"
16 S	10'-7"	9'-0"	II	21-713@2'-0"	20-714@2'-0"					41-494@1'-0"	41-497@1'-0"	10	11	4'-3"
17 S	10'-0"	8'-6"	VIII	7-626@2'-0"	7-627@2'-0"	7-628@2'-0"	6-629@2'-0"	7-630@2'-0"	7-631@2'-0"			9	10	4'-3"
18 S	9'-3"	7'-10"	VII	7-533@2'-0"	7-534@2'-0"	7-535@2'-0"	6-536@2'-0"	7-537@2'-0"	7-538@2'-0"			9	10	4'-3"

* Bar no 4160 this wall only.



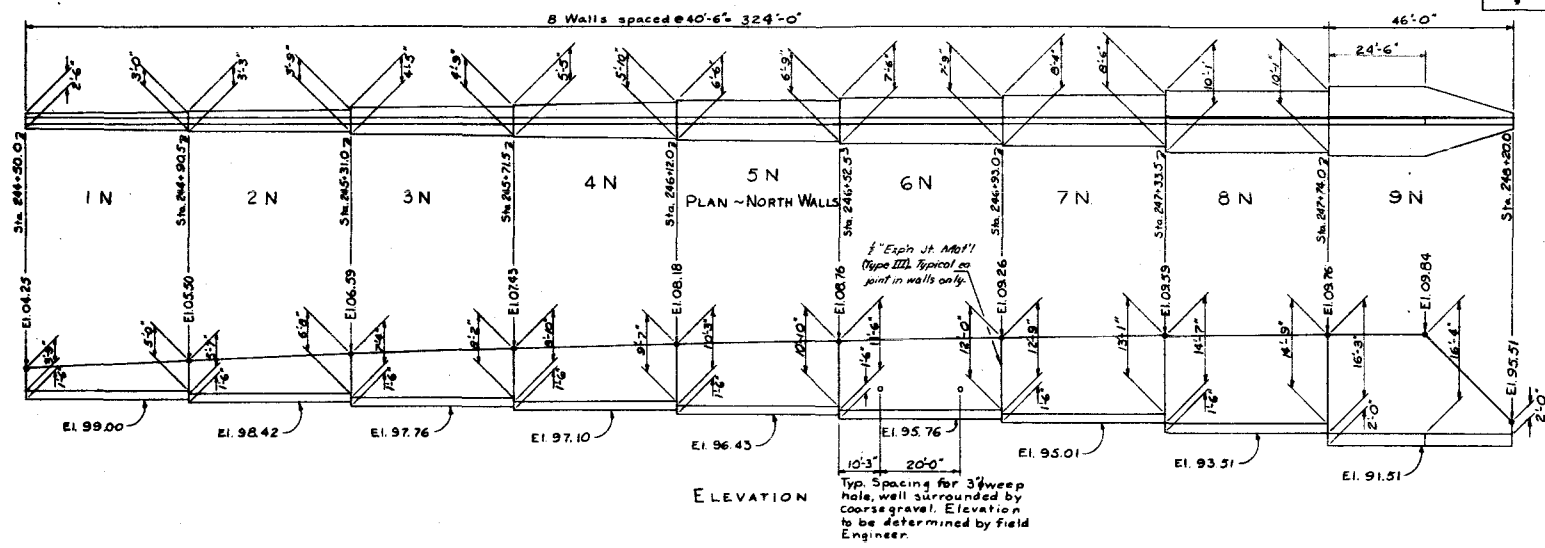
Max. Toe pressure = 1 Ton/ft²
(includes earth on front face)

COLORADO
DEPARTMENT OF HIGHWAYS
SOUTH
RETAINING WALLS

Along 6TH AVENUE
Sta. 244,500 to 256,100
Near DENVER Sta. 3107.45 R.539

Designed by PC Approved by [Signature]
Checked by DBS Checked by [Signature]
Date: Dec. 7, 1962

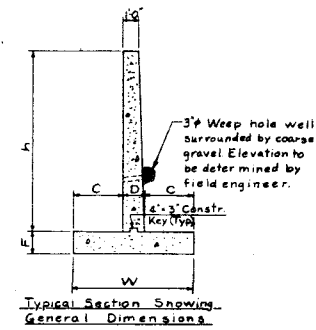
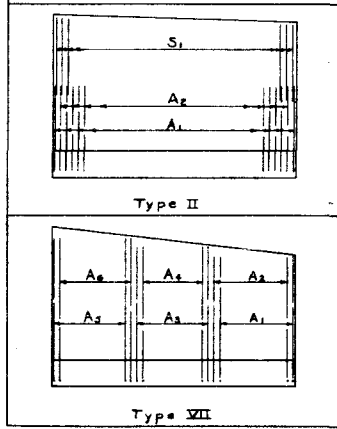
REV. NO.	DESCRIPTION	PROJECT NO.	DATE	TOTAL SHEETS
1	CONS.	FO12-2(B)	28	



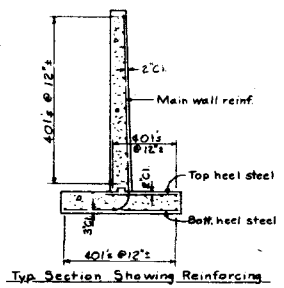
Note: For details of wall 9N, see sht. no. 29

WALL	West End		East End		F	D	West End		East End		Type	A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	S ₁	Top Heel Reinf	Bot. Heel Reinf	# 401 in Fly	# 401 in Wall
	h	h	W	C			W	C	W	C												
1N	3'-9"	3'-0"	1'-6"	1'-0"	2'-6"	9"	3'-0"	1'-0"	VII	7-403@2'-0"	7-403@2'-0"	7-404@2'-0"	6-404@2'-0"	7-403@2'-0"	7-403@2'-0"			27-402@18"	27-402@18"	5	3	
2N	3'-7"	6'-8"	1'-6"	1'-0"	3'-3"	1'-4"	3'-9"	1'-4"	VII	7-407@2'-0"	7-407@2'-0"	7-408@2'-0"	6-408@2'-0"	7-409@2'-0"	7-409@2'-0"			27-406@18"	27-406@18"	6	7	
3N	7'-4"	8'-2"	1'-6"	1'-0"	4'-3"	1'-8"	4'-9"	1'-10"	VII	7-501@2'-0"	7-501@2'-0"	7-503@2'-0"	6-504@2'-0"	7-505@2'-0"	7-506@2'-0"			27-410@18"	27-410@18"	8	9	
4N	8'-10"	9'-7"	1'-6"	1'-0"	5'-5"	2'-2"	5'-10"	2'-5"	VII	7-601@2'-0"	7-601@2'-0"	7-602@2'-0"	6-604@2'-0"	7-605@2'-0"	7-606@2'-0"			27-411@18"	27-411@18"	10	10	
5N	10'-3"	10'-0"	1'-6"	1'-0"	6'-6"	2'-9"	6'-9"	2'-10"	II	21-701@2'-0"	20-702@2'-0"							41-414@1'-0"	41-412@1'-2"	27-413@18"	11	11
6N	11'-4"	12'-0"	1'-6"	1'-0"	7'-4"	3'-3"	7'-9"	3'-4"	II	21-801@2'-0"	20-802@2'-0"							41-416@1'-0"	41-507@1'-2"	27-415@18"	12	12
7N	12'-5"	13'-7"	1'-6"	1'-0"	8'-4"	3'-8"	8'-6"	3'-9"	II	21-901@2'-0"	20-902@2'-0"							41-418@1'-0"	41-508@1'-2"	27-417@18"	14	13
8N	14'-7"	14'-9"	1'-6"	1'-0"	10'-7"	4'-6"	10'-7"	4'-6"	II	21-1001@2'-0"	20-1002@2'-0"							41-419@1'-0"	41-607@1'-2"	27-509@18"	16	15

TYPES of MAIN REINFORCING in WALLS



Max. Toe pressure = 1 Ton/ft² (includes earth on front face)

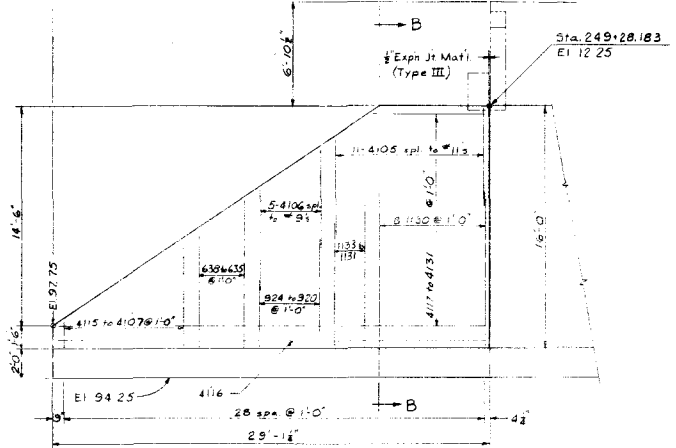
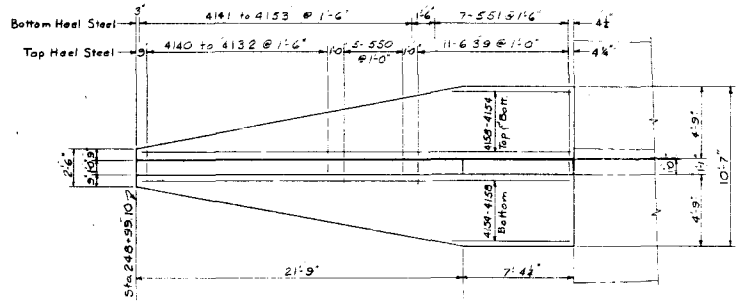


COLORADO DEPARTMENT OF HIGHWAYS
 NORTH RETAINING WALLS

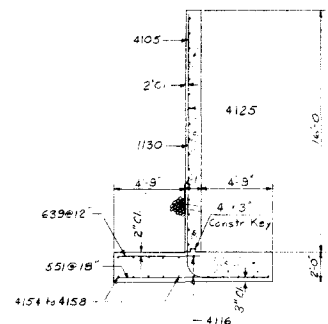
Along **6TH AVENUE**
 Sta. 244+30.0 to 256+10.0
 City of Denver, Colo. U.S.S. & L.W.

Designed by **PC** Approved by **DBS**
 Made by **DBS** **Edwin Engstrom**
 Checked by **DBS** Date **Dec 3, 1962**

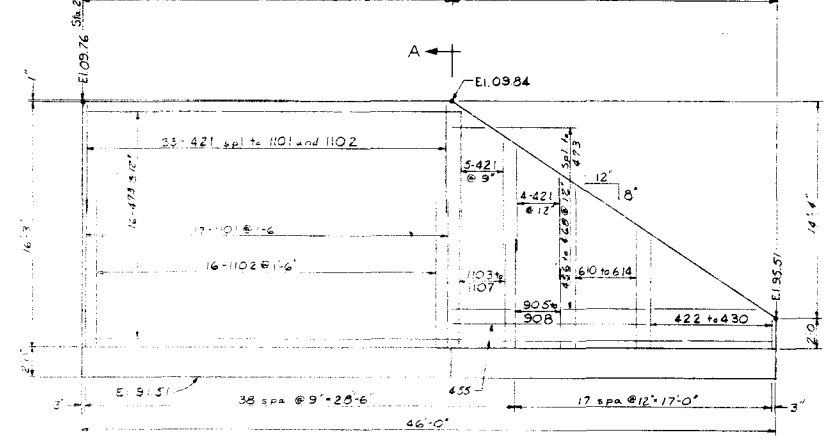
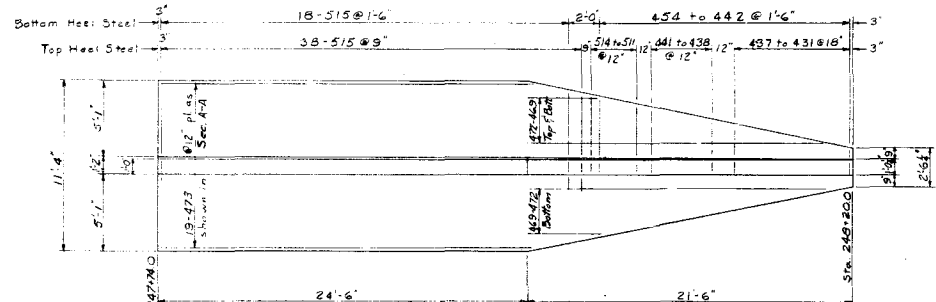
REV. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	FO12-2(B)	29	



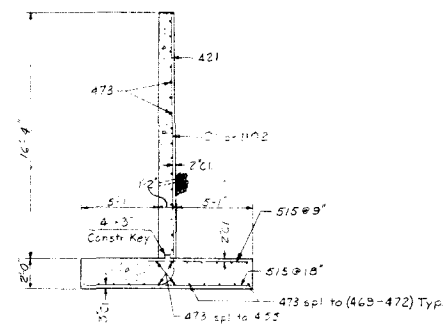
WALL 1S



SECTION B-B



WALL 9N



SECTION A-A

COLORADO
DEPARTMENT OF HIGHWAYS

RETAINING WALLS
 1 SOUTH AND 9 NORTH

Along **6TH AVENUE**
 Sta. 244+30.00 to 248+10.00
 Near Denver - See 310.7.1.5, R.69H

Designed by: D.C.
 Drawn by: DBS
 Checked by: [Signature]

Approved by: [Signature]
 Bridge Engineer

Date: Dec. 7, 1962

STRUCTURE NO.