

AS BUILT #7954

SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
OLYMPIA WASHINGTON

SCALE HORIZ 1 INCH = 100 FEET VERT 1 INCH = 10 FEET
STATION 654+77 TO STATION 710+25 CONSTRUCTED LENGTH 5.575 MILE
CONTRACT NO 3263 F A NO F-017(19) CONTRACTOR NORTH CENTRAL CONSTRUCTION, INC.
WORK BEGUN JULY 15, 1987 WORK COMPLETED NOV. 16, 1987
PROJECT ENGINEER ROBERT MURRAY DISTRICT TRANSPORTATION ADMINISTRATOR ROLAND C. COOK, P.E.
APPROVED

SECRETARY OF TRANSPORTATION

3263
7954

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[illegible]

No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

						REGION NO.	STATE	FED. AID PROJ. NO.	DATE
						10	WASH	F-017(19)	
DRAWN						JOB NUMBER			
						87E026			
CHECKED						CONTRACT NO.			
PROJ ENGR						3263			
DIST ADM						DATE	REVISION	BY	APPROD



DIVISION OF HIGHWAYS
ALL SHEETS OF THESE PLANS SHALL
BE DEEMED APPROVED BY THE
SIGNATURE AND STAMP ON THIS SHEET

APR 3 1964

7 *Charles S. Harris*




**Washington State
Department of Transportation**

**SR 17 AND SR 17B
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK**

INDEX

Sheet
1
of
32
SHEETS



DESIGNED BY				REGION NO.	STATE	FED. AID. PROJ. NO.	DIVISION OF HIGHWAYS	 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK VICINITY MAP	SHEET 2 OF 32 SHEETS
ENTERED BY				10	WASH	F-017(19)				
CHECKED BY				JOB NUMBER						
PROJ ENGR.				87E026						
DIST. ADM.				CONTRACT NO.			APPROVED	CS-4-1110.2187E026.DGN		
	DATE	DATE	REVISION	BY	3263					

SUMMARY OF QUANTITIES

87E026/03

PROJECT LIMITS

SR 17 STA 654+77.00 TO STA 949+15.25

LENGTH: 5.575 MILES

29,437.24 L.F.

EQ: STA 918+43.84 BK = 918+44.81 AND

SR 173 MP 1.67 TO MP 4.33 (NO LENGTH)

ITEM NO.	TOTAL QUANTITY	SUB-TOTAL SEE SCHEDULE	SUB-TOTAL SEE SCHEDULE	STD. ITEM NO.	UNIT	ITEM
PREPARATION						
1	LUMP SUM	LUMP SUM	LUMP SUM	0001	L.S.	MOBILIZATION
2	6.7		6.7	0025	ACRE	CLEARING AND GRUBBING
3	3,271		3,271	0170	L.F.	REMOVING BEAM GUARD RAIL
4	9		9	0171	EACH	REMOVING BEAM GUARD RAIL ANCHOR TYPE 1
5	29,419	70	29,419	0187	L.F.	REMOVING TEMPORARY STRIPING
6	1,350		1,350	0230	L.F.	REMOVING WIRE FENCE
GRADING						
7	27,800		27,800	0310	C.Y.	ROADWAY EXCAVATION INCLUDING HAUL
8	286		286	0444	S.Y.	CONSTRUCTION FABRIC FOR FILTER
9	20,060		20,060	0470	C.Y.	EMBANKMENT COMPACTION
10	31		31		EACH	ROAD APPROACH
11	125		125	1030	C.Y.	DITCH EXCAVATION INCLUDING HAUL
DRAINAGE						
12	116		116	1074	C.Y.	LIGHT LOOSE RIPRAP
13	82		82		C.Y.	SPECIAL RIPRAP
14	750		750	1180	L.F.	SCHEDULE A CULVERT PIPE 12 IN. DIAMETER
15	62		62	1182	L.F.	SCHEDULE A CULVERT PIPE 18 IN. DIAMETER
16	101		101	1216	L.F.	PLAIN CONCRETE CULVERT PIPE 18 IN. DIAMETER
17	67		67	1217	L.F.	PLAIN CONCRETE CULVERT PIPE 24 IN. DIAMETER
18	58		58	1228	L.F.	CL. II REINF. CONCRETE CULVERT PIPE 36 IN. DIAMETER
19	55		55	2285	L.F.	PLAIN STEEL CULV. PIPE EACH 0.064 IN. THICK 43 IN. SPAN
20	6		6		EACH	REINFORCED PIPE COLLAR
21	6		6		EACH	SAFETY HEADWALL
STRUCTURE						
22	835		835	4455	S.Y.	MEMBRANE WATERPROOFING (DECK SEAL)
SURFACING						
23	8,220		8,220		TON	SPECIAL TOP COURSE
LIQUID ASPHALT						
24	479		479	5297	TON	ASPHALT CMS-2
25	155		155	5305	TON	ASPHALT CSS-1
ASPHALT CONCRETE PAVEMENT						
26	158		158	5790	TON	ASPHALT CONCRETE PAVEMENT CLASS O INCL. PAVING ASPHALT
27	413		413	5882	C.Y.	CHOKESTONE
28	8,920		8,920	5793	TON	OPEN GRADED ASPHALT PAVEMENT EXCL. EMULSIFIED ASPHALT
EROSION CONTROL						
29	16		16	6414	ACRE	SEEDING, FERTILIZING AND MULCHING
30	16		16	6445	ACRE	SOIL BINDER OR TACKING AGENT
TRAFFIC						
31	8,729		8,729	6751	L.F.	BEAM GUARD RAIL TYPE 1
32	6,001	2,104	3,897		L.F.	BEAM GUARD RAIL TYPE 1 LONG POST
33	718		718	6759	L.F.	BEAM GUARD RAIL TYPE 10
34	42	3	39	6771	EACH	BEAM GUARD RAIL ANCHOR TYPE 1
35	19		19	6772	EACH	BEAM GUARD RAIL ANCHOR TYPE 2
36	1		1	6774	EACH	BEAM GUARD RAIL ANCHOR TYPE 4
37	1		1	6770	EACH	BEAM GUARD RAIL ANCHOR TYPE 5
38	5		5	6785	EACH	CRT TREATED TIMBER POST
39	1,681		1,681	6783	L.F.	RAISING EXISTING BEAM GUARD RAIL
40	894		894		L.F.	REMOVE AND REINSTALL BEAM RAIL AND BLOCK
41	53		53	6832	EACH	FLEXIBLE GUIDE POST
42	29,419		29,419	6837	L.F.	TEMPORARY STRIPING
43	EST. 4,000		EST. 4,000	6960	DOLLAR	ONE-WAY PILOTED TRAFFIC CONTROL
44	EST. 36,000	EST. 1,700	EST. 34,300	6961	DOLLAR	LABOR FOR TRAFFIC CONTROL
OTHER ITEMS						
45	659		659	7006	C.Y.	STRUCTURE EXCAVATION CLASS B INCLUDING HAUL
46	128		128	7013	C.Y.	GRAVEL BACKFILL FOR PIPE BEDDING
47	1,400		1,400	7018	HGAL	WATER
48	1,350		1,350	7111	L.F.	WIRE FENCE TYPE 2
49	149		149	7150	C.Y.	DABION CRIBBING
50	200		200	7400	HOURL	TRAINING

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

F-017(19) STATE FUNDS										STATE	
SR 17										SR 173	
GROUP 1	GROUP 2	GROUP 3			GROUP 4			GROUP 5	GROUP 6		
MAINLINE 654+77 TO 949+15.25 CS 093200	MAINLINE SAFETY CS 093200	BRIDGE 17/307 CS 093200	BRIDGE 17/308 CS 093200	BRIDGE 17/309 CS 093200	SR 17/307 SAFETY CS 093200	SR 17/308 SAFETY CS 093200	SR 17/309 SAFETY CS 093200	SAFETY DOWNGRADE CO CS 093700	SAFETY BRIDGEPORT CS 093701		
L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.		
6.7	3,181							90			
	3							6			
29,419									170		
1,350											
27,800											
286											
20,060											
31											
125											
116											
82											
750											
62											
101											
67											
58											
55											
6											
6											
		303	246	284							
8,220											
479											
155											
63		35	28	32							
413											
8,920											
16											
16											
	7,831							898			
					254	220	244	3,897	2,104		
	24							15	3		
	6							13			
								1			
								5			
	468							1,213			
	894										
	53										
	29,419										
EST. 5,200		EST. 300	EST. 250	EST. 250							
EST. 22,000	EST. 3,000	EST. 200	EST. 150	EST. 150	EST. 200	EST. 150	EST. 150	EST. 6,300	EST. 1,700		
659											
128											
1,400											
1,350											
149											
200											

NOTE:
Preliminary Quantities Only
See Project Ledger For Actual Quantities.

SEE NOTE ABOVE

SALES	■ QUANTITIES SUBJECT TO PROVISIONS OF SECTION 1-07.2(1) OF STANDARD SPECIFICATIONS
TAX	
SCHEDULE	■ QUANTITIES SUBJECT TO PROVISIONS OF SECTION 1-07.2(2) OF STANDARD SPECIFICATIONS


FOR "AS CONSTRUCTED
PLANS" ONLY

REGION	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	DIVISION OF HIGHWAYS	Washington State Department of Transportation	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK SUMMARY OF QUANTITIES	SHEET 3 OF 32 SHEET 19
10	WASH							
JOB NUMBER		F-017(19)						
87E026								
CONTRACT NO.								
3263								
DATE	REVISION	BY	APPROVED					

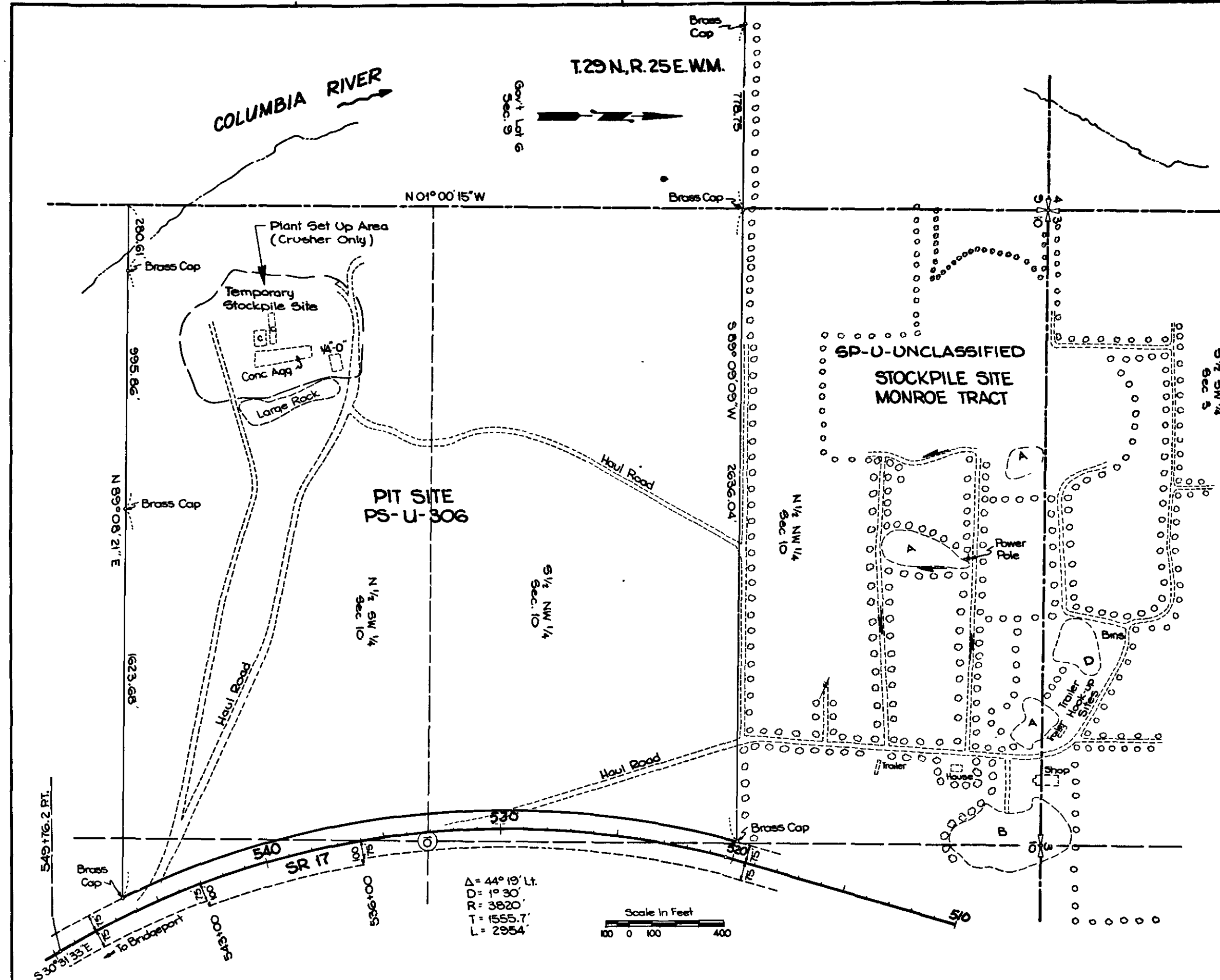
87E026/03

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FOR "AS CONSTRUCTED
PLANS" ONLY.

				REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	DIVISION OF HIGHWAYS		 Washington State Department of Transportation	SR 17 AND SR 173		SHEET 41 OF 32 SHEETS
				10	WASH	F-017(19)						WEST FOSTER CREEK BRIDGE TO		
				JOB NUMBER 970023								EAST FOSTER CREEK		
				CONTRACT NO. 32C3					APPROVED _____			SUMMARY OF QUANTITIES		
				DATE	REVISION	BY	APPRO							

CL 17 4 113
WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK
CLEANOGAN CO.
3760' 12" 125
511.7 5 2 11 175



Note: See Special Provision
Operation In Stockpile Site
SP-U-Unclassified & Pit Site
PS-U-306

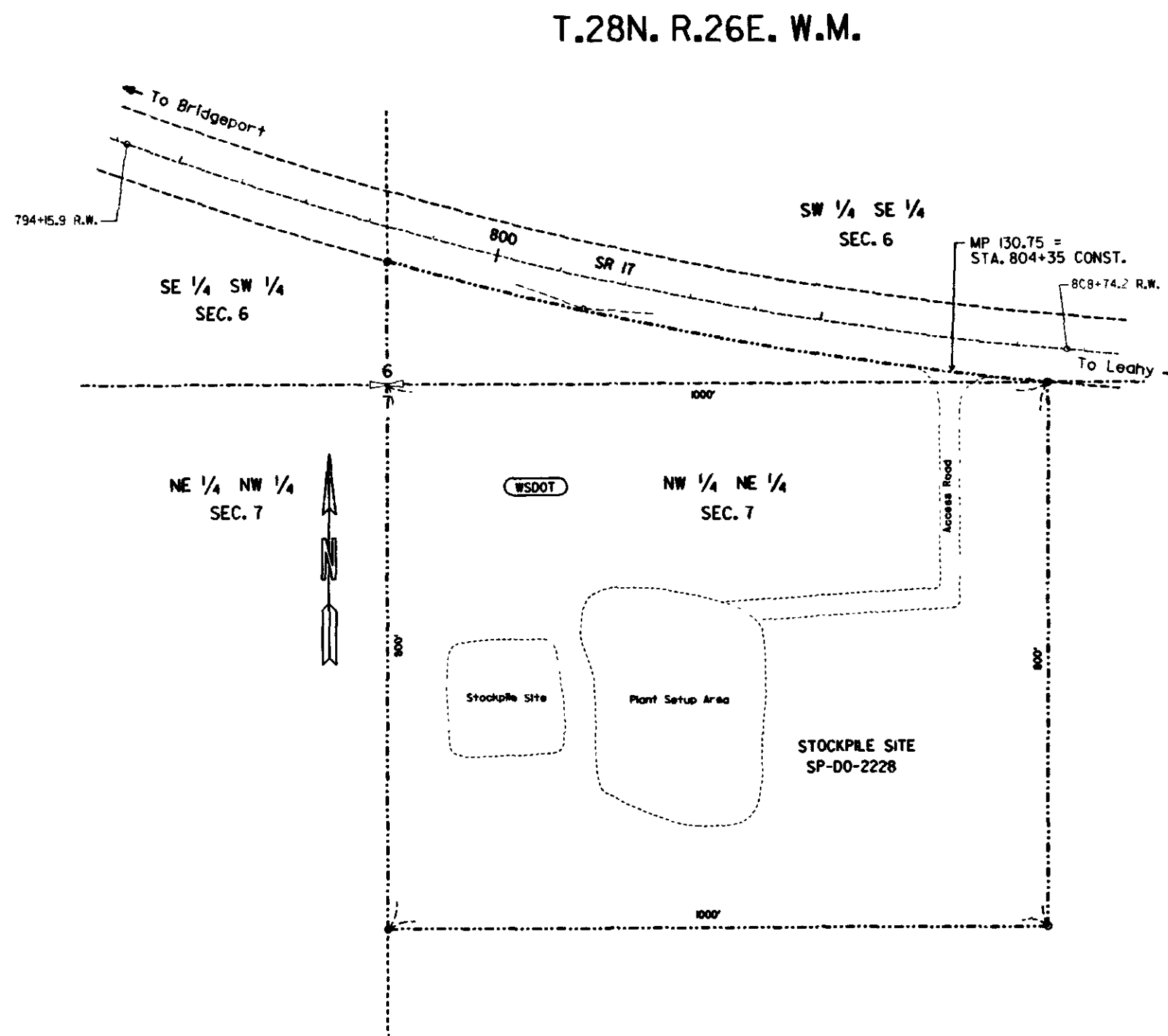
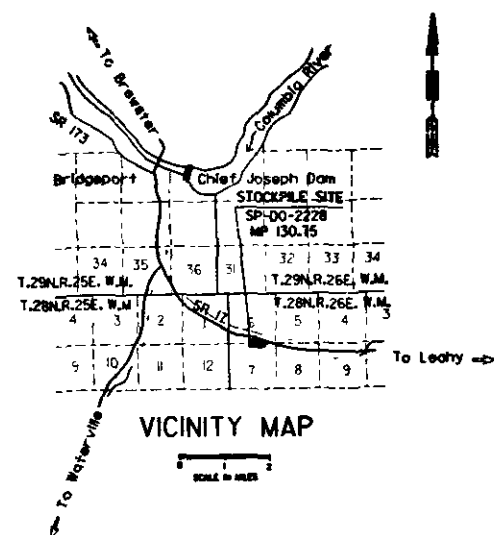
EXISTING STOCKPILES

- A- Material available for production of mineral aggregate for open graded emulsified asphalt pavement and chokestone.
- B- Special Top Course and gravel backfill for pipe bedding
- C- Crushed Surfacing Top Course
- D- Haul Road Material

No Change
FOR "AS CONSTRUCTED PLANS" ONLY

DRAWN		10 WASH		FED. AID PROJ. NO. F-017(19)		HIGHWAY DIVISION		Washington State Department of Transportation		SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		5 32
CHECKED		JOB NUMBER 87E026		CONTRACT NO. 3263						STOCKPILE SITE		
PROJ ENGR.		DATE		REVISION		BY APP'D						
DIST ADM.												

APR. 7, 1987



NOTES:

1. Use of the Stockpile Site shall be confined to the limits shown.
2. All work areas and depleted stockpiles shall be graded and dressed to provide a natural appearance.
3. Vegetation outside of the stockpile and work area shown shall remain undisturbed.
4. All asphalt material shall be removed from the work area.
5. See Special Provision: STOCKPILE SITE.

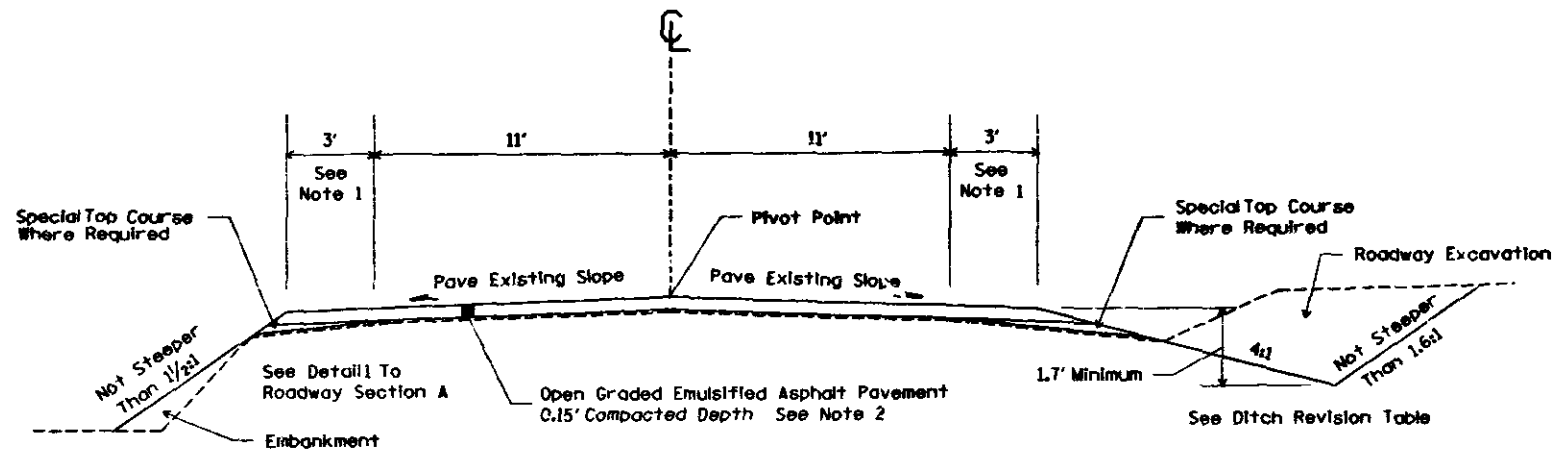
No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

DESIGNED BY		ENTERED BY DOUG SHIRK		CHECKED BY		PROJ. ENGR.		DIST. ADM.		DATE		DATE		REVISION		BY		3263		APPROVED		WSDOT		WASHINGTON STATE DEPARTMENT OF TRANSPORTATION		SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		STOCKPILE SITE SP-DO-2228		SHEET 6 OF 32 SHEETS	
REGION NO.		STATE		FED. AID. PROJ. NO.		DIVISION OF HIGHWAYS		F-017(19)		JOB NUMBER		87E026		CONTRACT NO.		05A41110,2187E026.DGN															

2/17/23

APR. 7, 1987

SR 17



ROADWAY SECTION A

STATION	TO	STATION
656+48		885+30
886+73		929+34
930+97		949+00

EQUATIONS

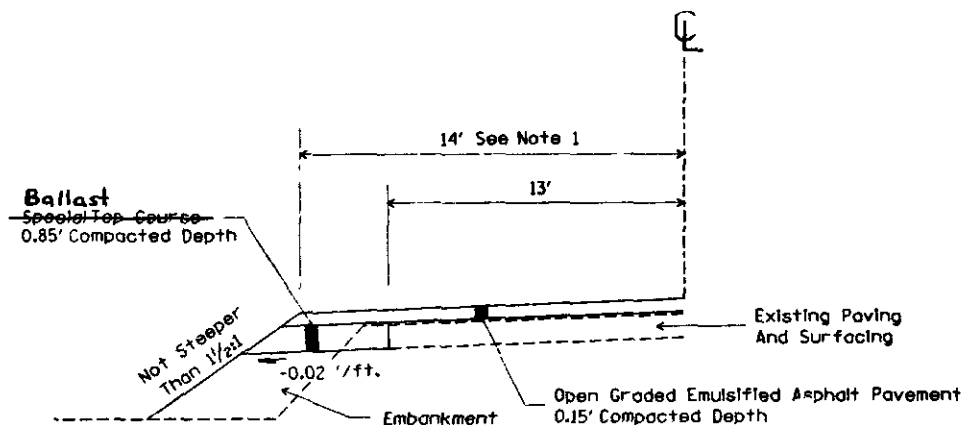
731+52.6 S.T. R/W BK. = 734+60.1 P.O.T. R/W AHD.
918+43.84 P.T. CONST. BK. = 918+44.81 P.O.T. CONST. AHD.

SR 17

NOTES:

1. Refer To Standard Plan C-4 For Shoulder Widening In Guard Rail Areas.
2. See Paving Details For Bridges, Sheet 27
3. Pave to face of Existing Guard Rail Post where Asphalt Concrete Class G is beyond the limits of the Bridge Decks.

SR 17



DETAIL 1 TO ROADWAY SECTION A

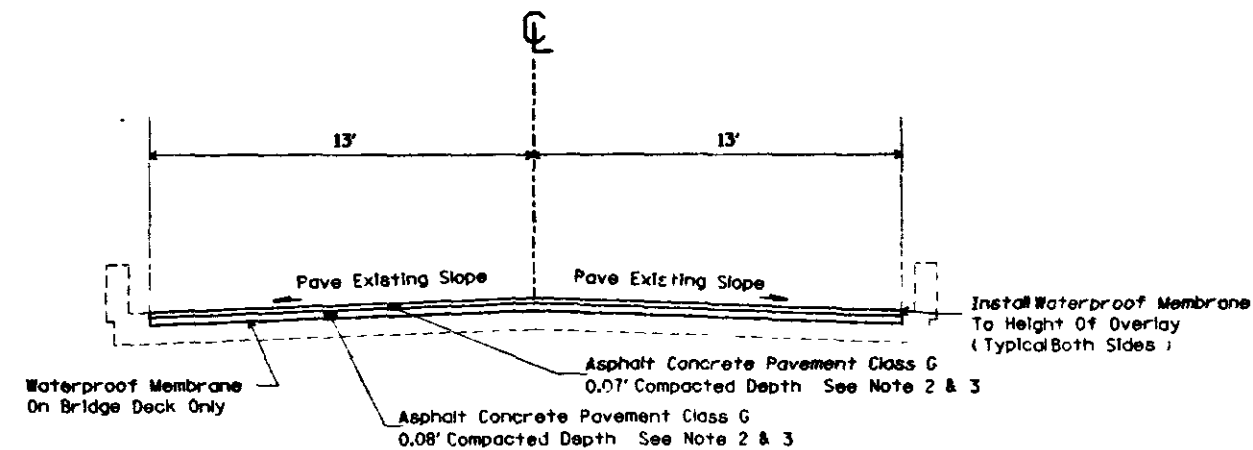
STATION	TO	STATION	SIDE	STATION	TO	STATION	SIDE
670+50		671+50	LT.	829+00		837+80	LT.
681+25		697+90	LT.	831+05		836+25	RT.
716+50		727+25	LT.	852+00		860+00	RT.
723+00		725+00	RT.	853+00		858+00	LT.
730+00		752+00	RT.	887+00		894+25	LT.
731+50		734+40	LT.	887+50		898+00	RT.
769+00		790+50	RT.	908+00		913+00	LT.
776+10		778+75	LT.	913+50		922+00	RT.
794+00		797+00	RT.	931+00		934+00	RT.
801+00		822+00	RT.	931+00		936+80	LT.
				938+00		939+70	RT.

DITCH REVISION TABLE

STATION	S	D
813+00 RT.	4:1	2.9'
814+00 RT.	4:1	3.5'
815+00 RT.	4:1	4.1'
816+00 RT.	4:1	5.5'
817+00 RT.	4:1	7.9'
912+50 LT.	3:1	1.7'
913+50 TO 914+00 LT.	3.5:1	1.7'

NOTE:
Taper Ditch To Provide Drainage

SR 17

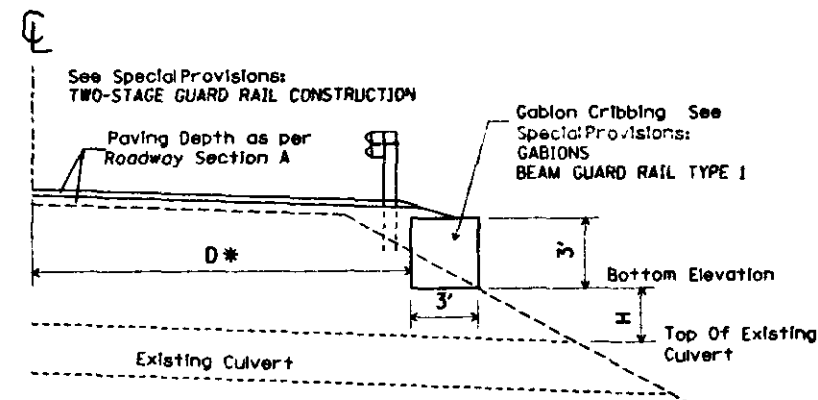


ROADWAY SECTION B

STATION TO STATION

654+77	656+48	Bridge No. 17/309
885+30	886+73	Bridge No. 17/308
929+34	930+97	Bridge No. 17/307

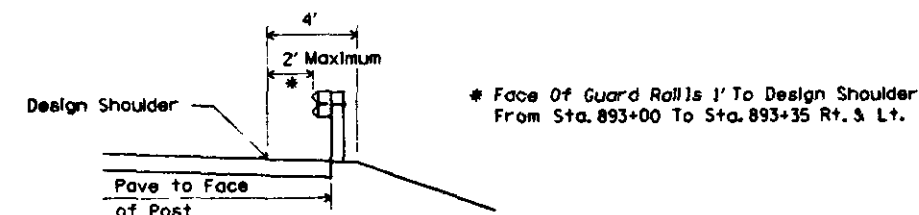
SR 17



GABION PLACEMENT DETAIL

STATION	TO	STATION	D*	H
783+20		783+41 RT.	19'	2.5'
783+20		783+41 LT.	19.5'	2.5'
832+75		832+96 RT.	18.5'	0.2'
832+75		832+96 LT.	18.5'	0.2'

See Additional Gabion Details Sheets 28-32.



SHOULDER WIDENING FOR GUARDRAIL DETAIL

See Special Provisions: TWO-STAGE GUARD RAIL CONSTRUCTION

FOR "AS CONSTRUCTED PLANS" ONLY


DESIGNED BY	ENTERED BY TRENT E RICKMAN	CHECKED BY	PROJ. ENGR.	DIST. ADM.	DATE	DATE	REVISION	BY	3263	APPROVED	DIVISION OF HIGHWAYS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK ROADWAY SECTION	SHEET 7 OF 32
										REGION NO. 10	STATE WASH	FED. AID. PROJ. NO. F-017(19)		
										CONTRACT NO. 87E026				

QUANTITY TABULATION

LOCATION	REMOVING BEAM GUARD RAIL L.F.	REMOVING BEAM GUARD RAIL ANCHOR TYPE 1 EACH	BEAM GUARD RAIL TYPE 1 L.F.	BEAM GUARD RAIL TYPE 1 LONG POST L.F.	BEAM GUARD RAIL TYPE 10 L.F.	BEAM GUARD RAIL ANCHOR TYPE 1 EACH	BEAM GUARD RAIL ANCHOR TYPE 2 EACH	BEAM GUARD RAIL ANCHOR TYPE 4 EACH	BEAM GUARD RAIL ANCHOR TYPE 5 EACH	RAISING EXISTING BEAM GUARD RAIL L.F.	REMOVE AND REINSTALL BEAM RAIL AND BLOCK L.F.	CRT TREATED TIMBER POST EACH	BEGIN PLACEMENT CASE NO.	BEGIN GUARD RAIL TERMINAL	END PLACEMENT CASE NO.	END GUARD RAIL TERMINAL	GENERAL NOTES
SR 173																	
MP 1.67 TO MP 1.83 RT.				883		1	1						2	BCT	2	BT	4, 10, 13
MP 1.69 TO MP 1.77 LT.				452		2							2	BCT	2	BCT	4, 10, 13
MP 1.92 TO MP 2.09 RT.				910		1							2	BCT			4, 10, 13
MP 2.09 TO MP 2.26 RT.				910			1						2	BT	2	BT	10, 13
MP 2.36 TO MP 2.48 RT.				664		2		0 +	0 +				2	BCT	2	BCT	4, 10, 12, 13
MP 2.59 TO MP 2.59 RT.	16	1	45			1							2	BCT			1, 4, 8, 11, 13
MP 2.59 TO MP 2.72 RT.										638							2
MP 2.62 TO MP 2.66 LT.				226			2						2	BT	2	BT	10
MP 2.72 TO MP 2.72 RT.	15	1	51				1								2	BT	1, 8, 11, 13
MP 2.89 TO MP 2.89 RT.	16	1	45			1							2	BCT			1, 4, 8, 11, 13
MP 2.89 TO MP 2.96 RT.										275							2
MP 2.90 TO MP 2.90 LT.	16	1	38				1						2	BT			1, 8, 11, 13
MP 2.90 TO MP 2.96 LT.										263							2
MP 2.94 TO MP 2.96 RT.	16	1	82 45			1				38					2	BCT	1, 4, 8, 11, 13
MP 2.96 TO MP 2.96 LT.	16	1	51				1								2	BT	1, 8, 11, 13
MP 3.08 TO MP 3.14 RT.				327		2							2	BCT	2	BCT	4, 10, 13
MP 3.11 TO MP 3.14 LT.				170		1 +	1						2	BT	2	BCT	4, 10, 13
MP 3.28 TO MP 3.30 RT.				183		1 +	1						2	BT	2	BCT	4, 10, 13
MP 3.28 TO MP 3.31 LT.				176			2						2	BT	2	BT	10, 13
MP 3.53 TO MP 3.57 RT.				188			2						2	BT	2	BT	10, 13
MP 3.65 TO MP 3.83 LT.				1014		2							2	BCT	2	BCT	4, 10, 13
MP 4.22 TO MP 4.33 RT.			601			2							2	BCT	2	BCT	4, 13
SHEET TOTAL	93	6	912	6102	0	17	13	0	0	1213	0	0					

- GENERAL NOTES
- SEE SPECIAL PROVISION; REMOVING BEAM GUARD RAIL.
 - SEE SPECIAL PROVISION; RAISING EXISTING BEAM GUARD RAIL.
 - ATTACH TO EXISTING BEAM GUARD RAIL.
 - ALTERNATE TYPE 1 ANCHOR REQUIRED. SEE STANDARD PLAN C-6.
 - TERMINAL SECTION DESIGN 6 REQUIRED. SEE STANDARD PLAN C-7.
 - SEE SPECIAL PROVISION; BEAM GUARD RAIL TYPE 10.
 - SEE SPECIAL PROVISION; DRILLING OR CUTTING BEAM GUARD RAIL.
 - SEE SPECIAL PROVISION; REMOVING BEAM GUARD RAIL ANCHOR TYPE 1.
 - 13:1 FLARE RATE FOR GUARD RAIL WIDENING.
 - 8' GUARD RAIL POST REQUIRED. SEE SPECIAL PROVISION; BEAM GUARD RAIL TYPE ONE LONG POST.
 - ATTACH TO RAISED EXISTING GUARD RAIL.
 - 25' OF 10' RADIUS CONVEX RAIL REQUIRED.
 - SEE GUARD RAIL PLACEMENT DETAIL FOR SR 173 - SHEET 27.
 - SEE SPECIAL PROVISION; REMOVE AND REINSTALL BEAM RAIL AND BLOCK.
 - FACE OF GUARD RAIL 15' FROM ROADWAY C/L FROM STA. 893+00 TO STA. 893+35 LT. & RT. SEE GABION PLACEMENT DETAIL, SHEET 32.
 - SEE SPECIAL PROVISION; RAISING 10 INCH BY 10 INCH TREATED TIMBER POSTS.

FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN		REGION 10		STATE WASH	FED. AID PROJ. NO.	SHEET 8	DIVISION OF HIGHWAYS		 Washington State Department of Transportation	SR17 AND SR173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		SHEET 8 OF 32 SHEETS
CHECKED		JOB NUMBER 87-5026		F-017 (19)		APPROVED		QUANTITY TABULATION				
PROJ ENGR		CONTRACT NO. 3263		DATE		REVISION		BY APPD				

QUANTITY TABULATION

LOCATION	REMOVING BEAM GUARD RAIL L.F.	REMOVING BEAM GUARD RAIL ANCHOR TYPE 1 EACH	BEAM GUARD RAIL TYPE 1 L.F.	BEAM GUARD RAIL TYPE 1 LONG POST L.F.	BEAM GUARD RAIL TYPE 10 L.F.	BEAM GUARD RAIL ANCHOR TYPE 1 EACH	BEAM GUARD RAIL ANCHOR TYPE 2 EACH	BEAM GUARD RAIL ANCHOR TYPE 4 EACH	BEAM GUARD RAIL ANCHOR TYPE 5 EACH	RAISING EXISTING BEAM GUARD RAIL L.F.	REMOVE AND REINSTALL BEAM RAIL AND BLOCK L.F.	CRT TREATED TIMBER POST EACH	BEGIN PLACEMENT CASE NO.	BEGIN GUARD RAIL TERMINAL	END PLACEMENT CASE NO.	END GUARD RAIL TERMINAL	GENERAL NOTES
SR 17																	
654+68.5 TO 655+18 LT.		1	21			1				27	27		2	BCT			14
654+77 TO 655+18 RT.			8							53	53						14
655+18 TO 656+40 RT.					122												1,3,6,7,16
655+18 TO 656+40 LT.					122												1,3,6,7,16
656+40 TO 657+44 LT.			8							103	103						14
656+40 TO 658+00 RT.			8							78	78						14
670+25 TO 673+00 LT.			283			1	1						2	BT	2	BCT	4,5,9
681+25 TO 696+92.5 LT.			1570			1	1						2	BT	2	BCT	4,5,9
716+50 TO 726+50 LT.			1008			1	1						2	BT	2	BCT	4,5,9
732+65 TO 734+40 LT.			214			2							2	BCT	2	BCT	4,5,9
732+65 TO 734+40 RT.			207			1	1						2	BT	2	BCT	4,5,9
776+98 TO 778+48 LT.			164			2							2	BCT	2	BCT	4,5,9
777+01 TO 778+51 RT.			165			2							2	BCT	2	BCT	4,5,9
782+50 TO 786+50 LT.			414			2							2	BCT	2	BCT	4,5,9
782+50 TO 786+50 RT.			414			2							2	BCT	2	BCT	4,5,9
831+50 TO 837+97.5 LT.			650			0	2						2	BT	2	BCT	4,5,9
831+37 TO 833+84.5 RT.			257			1	1						2	BT	2	BCT	4,5,9
832+69 TO 835+87 RT.	318																1
832+69 TO 836+59 LT.	390																1
884+49 TO 885+39 LT.			8			1				88	88		2	BCT			2,14
884+64 TO 885+54 RT.			8			1				89	89		2	BCT			2,14
885+39 TO 886+49 LT.	15				108												1,3,6,7,16
885+54 TO 886+64 RT.	15				109												1,3,6,7,16
886+49 TO 886+75 LT.										39	39						2,14
886+64 TO 886+92 RT.										39	39						2,14
886+75 TO 891+58 LT.	483	1															1,8
886+75 TO 894+75 LT.			775			1	1						2	BCT	2	BT	3,9,15
886+88.4 TO 888+00.6 RT.			108			1									2	BCT	3,4,5,9
886+92 TO 893+23 RT.	631	1															1,8
892+25 TO 894+75 RT.			244			1	1						2	BCT	2	BT	4,5,9,15
907+00 TO 914+50 RT.	591		739			2							2	BCT	2	BCT	1,4,5,9
SHEET TOTAL	2443	3	7272	0	460	23	9	0	0	515	515	0					

- GENERAL NOTES
- SEE SPECIAL PROVISION; REMOVING BEAM GUARD RAIL.
 - SEE SPECIAL PROVISION; RAISING EXISTING BEAM GUARD RAIL.
 - ATTACH TO EXISTING BEAM GUARD RAIL.
 - ALTERNATE TYPE 1 ANCHOR REQUIRED. SEE STANDARD PLAN C-6.
 - TERMINAL SECTION DESIGN 6 REQUIRED. SEE STANDARD PLAN C-7.
 - SEE SPECIAL PROVISION; BEAM GUARD RAIL TYPE 10.
 - SEE SPECIAL PROVISION; DRILLING OR CUTTING BEAM GUARD RAIL.
 - SEE SPECIAL PROVISION; REMOVING BEAM GUARD RAIL ANCHOR.
 - 13:1 FLARE RATE FOR GUARD RAIL WIDENING.
 - 8' GUARD RAIL POST REQUIRED. SEE SPECIAL PROVISION; BEAM GUARD RAIL TYPE ONE LONG POST.
 - ATTACH TO RAISED EXISTING GUARD RAIL.
 - 25' OF 10' RADIUS CONVEX RAIL REQUIRED.
 - SEE GUARD RAIL PLACEMENT DETAIL FOR SR 173 - SHEET 27.
 - SEE SPECIAL PROVISION; REMOVE AND REINSTALL BEAM RAIL AND BLOCK.
 - FACE OF GUARD RAIL 15' FROM ROADWAY C/L FROM STA. 893+00 TO STA 893+35 LT. RT. SEE GABION PLACEMENT DETAIL, SHEET 32.
 - SEE SPECIAL PROVISION; RAISING 10 INCH BY 10 INCH TREATED TIMBER POSTS.

FOR "AS CONSTRUCTED PLANS" ONLY


DRAWN		REGION NO. STATE		FED. AID PROJ. NO.		SHEET NO. TOTAL SHEETS		DIVISION OF HIGHWAYS		Washington State Department of Transportation		SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		SHEET 9 OF 32 SHEETS	
CHECKED		10 WASH		F-017(19)								QUANTITY TABULATION			
PROJ. ENGR.		JOB NUMBER		87E026											
DIST. ADM.		CONTRACT NO.		3263											
DATE		REVISION		BY APPD											

QUANTITY TABULATION

[illegible]

A S B U I L T

FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	DIVISION OF HIGHWAYS		 Washington State Department of Transportation	SR 17 TO SR 173		SHEET 10 OF 32 SHEETS
CHECKED				10	WASH	F-017(19)			APPROVED			WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		
PROJ. ENGR.				JOB NUMBER								QUANTITY TABULATION		
DIST. ADM.				CONTRACT NO.										
DATE				REVISION	BY	APP'D	326							

QUANTITY TABULATION

																GENERAL NOTES				
				REMOVING WIRE FENCE		FLEXIBLE GUIDE POSTS		WIRE FENCE TYPE 2											GENERAL NOTES	
LOCATION				L.F.		EACH		L.F.												
674+10 TO 695+10 RT.						8														1,2
713+18 TO 729+98 RT.						7														1,4
721+50 50' RT. TO 724+50 36' RT.				300				300												7,8,9,10
732+78 TO 733+95 RT.						2														1,5
750+70 TO 762+70 LT.						5														1,2
787+90 TO 808+90 RT.						8														1,2
800+50 42' RT. TO 803+40 45' RT.				290				290												7,8,9,10
815+25 TO 827+25 LT.						5														1,2
833+50 50' RT. TO 835+65 50' RT.				215				215												7,8,9,10
840+55 49' LT. TO 840+90 49' LT.				35				35												7,8,9,10
840+60 TO 852+60 RT.						5														1,2
887+70 51' RT. TO 892+80 51' RT.				510				510												7,8,9,10
901+40 TO 904+40 RT.						2														1,2
907+40 TO 914+00 RT.						4														1,6
917+00 TO 920+00 RT						2														1,2
932+70 TO 935+70 LT.						2														1,3
938+70 TO 944+70 LT.						3														1,2

FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN		CHECKED		PROJ ENGR		DIST. ADM.		DATE		REVISION		BY APP'D		REGION NO.		STATE		FED. AID PROJ. NO.		SHEET NO.		TOTAL SHEETS		DIVISION OF HIGHWAYS		Washington State Department of Transportation		SR 17 TO SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK QUANTITY TABULATION		SHEET 11 OF 32 SHEETS	
														10		WASH		F-017(19)													
														87E026																	
														3263																	

MS DOT FORM 221-081
R/9/86

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF "CODE" REFERS
TO THE SHEET NUMBER OF THE CONTRACT
PLANS. THE SECOND NUMBER REFERS TO
THE CONSTRUCTION FEATURE FOUND ON
THE PARTICULAR SHEET.

GENERAL NOTES

1. BEVELED END SECTION REQUIRED AT INLET END.
2. BEVELED END SECTION REQUIRED AT OUTLET END.
3. BEVELED END SECTION REQUIRED AT BOTH ENDS.
4. 2:1 BEVEL REQUIRED AT INLET END.
5. 6:1 BEVEL REQUIRED AT OUTLET END.
6. SEE SPECIAL PROVISION: CONSTRUCTION FABRIC.
7. SEE SPECIAL PROVISION: LIGHT LOOSE RIPRAP.
8. SEE SPECIAL PROVISION: SPECIAL RIPRAP.
9. SEE SPECIAL PROVISION: REINFORCED PIPE COLLAR.
10. SEE SAFETY HEADWALL DETAIL, SHEET 24. SEE SPECIAL PROVISION: SAFETY HEADWALL.
11. DITCH DIKE REQUIRED, SEE SPECIAL PROVISION: DITCH DIKES.
12. EXTEND EXISTING CULVERT PIPE.
13. PLUG EXISTING CULVERT PIPE.
14. REMOVE 49 L.F. OF EXISTING 84 IN. DIAM. CULVERT PIPE. SEE SPECIAL PROVISION: REMOVING 84 INCH CULVERT.
15. REMOVE 37 L.F. OF EXISTING 12 IN. DIAM. CULVERT PIPE.
16. REMOVE 6 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
17. REMOVE 3 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
18. REMOVE 31 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
19. ROAD APPROACH CULVERT.
20. SEE GABION PLACEMENT DETAIL, SHEETS 28 TO 32.
21. SEE SPECIAL PROVISION: GABIONS.
22. CLEAN EXISTING DRAINAGE STRUCTURE. SEE SPECIAL PROVISION: ROADSIDE CLEANUP.
23. SEE DRAINAGE PLAN, SHEETS 19 TO 23.
24. ACCEPTABLE ALTERNATE IS PLAIN AL. CULVERT PIPE ARCH 0.075 IN. THICK 43 IN. SPAN.
25. SEE DRAINAGE PROFILE, SHEET 19 TO SHEET 23.
26. SEE SPECIAL PROVISION: CULVERT PIPES.
27. SEE DRAINAGE DETAIL, SHEET 19 TO SHEET 23.
28. SEE SPECIAL PROVISION: RELAYING CULVERT PIPE.
29. REMOVE 6 L.F. OF EXISTING 36 IN. DIAMETER CULVERT PIPE.

CODE	LOCATION	S.V.	C.V.	C.V.	C.V.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA	EA	C.V.	C.V.	C.V.	GENERAL NOTES
14-1	665+30 24' RT. TO 665+89 24' RT.					59								13	5.6		3, 19, 26
14-2	668+23 RT.	28	6		6			6						1			1, 8, 12, 26, 27
14-3	672+66 75' LT. TO 672+86 25' LT.			100													7, 23
14-4	681+03 24' RT. TO 681+57 24' RT.					0								0	0.0		3, 19, 26
14-5	682+49 LT.	14	3		3												6, 8, 17, 22, 27
14-6	682+97 56' RT. TO 683+32 73' RT.	28	3		6			37				1		7	5.0		1, 4, 6, 8, 9, 12, 22, 26, 27
14-7	696+55 49' LT. TO 696+68 28' LT.			30													7, 23
14-8	697+00 48.4 LT. TO 697+44 24' LT.	7	1		1.3	42								18	4.8		3, 5, 19, 26
14-9	705+92 RT.									10		1	1	9	2.6		1, 4, 9, 10, 12, 22, 26, 27, 29
14-10	705+92 LT.									25		1	1	8	5.7		2, 9, 10, 12, 22, 26, 27
14-11	706+20 43' RT. TO 706+71 29' RT.	4	1		1	53								27	4.9		3, 6, 8, 19, 26, 27
14-12	668+10 35' LT.	7	1.3	40	1.3												
15-1	718+60 LT.																22
15-2	718+73 43' RT. TO 718+97 67' RT.	4	3		6			35				1		6	5.3		1, 6, 8, 9, 12, 22, 26, 27
15-3	725+42 20' LT. TO 725+75 20' LT.													13		11	20, 21
15-4	727+84 24' RT. TO 728+42 24' RT.					58								23	5.6		3, 19, 26
15-5	733+43 20' RT. TO 733+67 20' RT.													18		13	20, 21
15-6	734+33 24' RT. TO 734+91 24' RT.					58								23	5.6		3, 19, 26
15-7	739+82 RT.							13				1		2	1.9		1, 9, 12, 26, 27
15-8	739+82 LT.							11						0	0.0		2, 12, 26, 27
15-9	749+18																13, 26
15-10	754+08									61		2	197	13.8			3, 10, 14, 24, 25, 26
15-11	754+61 27' LT. TO 755+16 24' LT.					55								14	5.3		3, 19, 26
16-1	777+29 20' LT. TO 777+50 20' LT.	24	6		7									7		7	6, 8, 20, 21
16-2	777+56.5 22' RT. TO 777+74.5 22' RT.													13		6	20, 21
16-3	783+20 19' RT. TO 783+41 19' RT.													9		7	20, 21
16-4	783+20 19.5' LT. TO 783+41 19.5' LT.													12		7	20, 21
16-5	786+66 39' LT. TO 787+01 34' LT.	4	1		1	40								9	3.7		3, 6, 8, 19, 26, 27
16-6	804+05 24' RT. TO 804+66 24' RT.					61								15	5.8		3, 19, 26
16-7	804+49 27' LT. TO 804+99 27' LT.					50								6	4.8		3, 19, 26
16-8	817+21 DELETED																13, 26
16-9	823+17 24' LT. TO 823+69 24' LT.					52								5	5.0		3, 19, 26
16-10	824+12 24' RT. TO 824+61 24' RT.					49								6	4.7		3, 19, 26
SHEET TOTAL		12	24	170	32	572	0	67	35	35	61	5	4	463	90.1	51	

FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN		REGION	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
CHECKED		10	WASH			
PROJ. ENGR				F-017(19)		
DIST. ADM.						
DATE	REVISION	BY	APPD	CONTRACT NO.		
				3263		

DIVISION OF HIGHWAYS



SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK
STRUCTURE NOTES

SHEET
12
OF
32
SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF "CODE" REFERS
TO THE SHEET NUMBER OF THE CONTRACT
PLANS. THE SECOND NUMBER REFERS TO
THE CONSTRUCTION FEATURE FOUND ON
THE PARTICULAR SHEET.

CODE	LOCATION	S.V.	C.V.	C.V.	C.V.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	REINFORCED PIPE COLLAR	SAFETY HEADWALL	STRUCTURE EXCAVATION CLASS 8 INCLUDING HAUL	GRAVEL BACKFILL FOR PIPE BEDDING	GABION CRIBBING	GENERAL NOTES
17-1	832+75 18.5' RT. TO 832+96 18.5' RT.													0		7	20,21
17-2	832+75 18.5' LT. TO 832+96 18.5' LT.													6		7	20,21
17-3	835+51 19' LT. TO 836+50 19' LT.													26		33	20,21
17-4	840+72 RT. TO 841+10 27' RT.	45	51		13						8		1	2	2.0		1,4,6,8,9,10,12,25,26,27
17-5	840+72 LT.	72	25		23						17		1	9	3.5		2,6,8,10,12,22,25,26,27
17-6	841+39 29' LT. TO 841+97 24' LT.		43			58								19	5.3		3,15,19,26,27
17-7	841+40 24' RT. TO 841+98 24' RT.					58								4	5.6		3,19,26
17-8	851+91 RT.	27	8		9					15				4	2.6		1,6,8,12,26,27
17-9	851+91 LT.									15				2	2.8		2,12,26,27
17-10	869+16 RT.							6						2	0.0		1,12,16,26,27
17-11	869+16 LT.							6						1	1.0		2,12,17,26,27
18-1	893+02.5 17' LT. TO 893+29.5 17' LT.	17	3		4									14		13	6,8,20,21
18-2	893+03 17.6' RT. TO 893+33 17.6' RT.	30	5		6									12		10	6,8,20,21
18-3	904+52 RT.	5	1		1			9						1	1.1		2,6,8,12,26,27
18-4	904+52 LT.							6						2	1.0		1,12,17,26,27
18-5	911+93 RT.			60										1	0.5		7,25,26,27,28
18-6	911+93 LT.	21	10		10			5						0	0.8		1,6,8,11,12,25,26,27
18-7	931+16 20' LT. TO 932+00 20' LT.													17		28	20,21
18-8	938+10 24' RT. TO 938+72 24' RT.					62								12	0.0		3,18,19,26
18-9	898+17 21.2 LT. TO 898+42 21.2 LT.													6			Removed Existing Pipe
14-13	683+32 69.9 RT. TO 683+50 21.5 RT	51	16		13												
SHEET TOTAL		268	161	60	79	116	62	32	30	25	0	1	2	157	26.2	98	
PROJECT TOTAL		388	185	230	111	693	62	99	65	60	61	6	6	620	116	149	

FOR "AS CONSTRUCTED
PLANS" ONLY

- GENERAL NOTES
1. BEVELED END SECTION REQUIRED AT INLET END.
 2. BEVELED END SECTION REQUIRED AT OUTLET END.
 3. BEVELED END SECTION REQUIRED AT BOTH ENDS.
 4. 2:1 BEVEL REQUIRED AT INLET END.
 5. 6:1 BEVEL REQUIRED AT OUTLET END.
 6. SEE SPECIAL PROVISION: CONSTRUCTION FABRIC.
 7. SEE SPECIAL PROVISION: LIGHT LOOSE RIPRAP.
 8. SEE SPECIAL PROVISION: SPECIAL RIPRAP.
 9. SEE SPECIAL PROVISION: REINFORCED PIPE COLLAR.
 10. SEE SAFETY HEADWALL DETAIL, SHEET 24. SEE SPECIAL PROVISION: SAFETY HEADWALL.
 11. DITCH DIKE REQUIRED, SEE SPECIAL PROVISION: DITCH DIKES.
 12. EXTEND EXISTING CULVERT.
 13. PLUG EXISTING CULVERT.
 14. REMOVE 49 L.F. OF EXISTING 84 IN. DIAM. CULVERT PIPE. SEE SPECIAL PROVISION: REMOVING 84 INCH CULVERT.
 15. REMOVE 37 L.F. OF EXISTING 12 IN. DIAM. CULVERT PIPE.
 16. REMOVE 6 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
 17. REMOVE 3 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
 18. REMOVE 31 L.F. OF EXISTING 18 IN. DIAM. CULVERT PIPE.
 19. ROAD APPROACH CULVERT.
 20. SEE GABION PLACEMENT DETAIL, SHEETS 28 TO 32.
 21. SEE SPECIAL PROVISION: GABIONS.
 22. CLEAN EXISTING DRAINAGE STRUCTURE. SEE SPECIAL PROVISION: ROADSIDE CLEANUP.
 23. SEE DRAINAGE PLAN, SHEETS 19 TO 23.
 24. ACCEPTABLE ALTERNATE IS PLAIN AL. CULVERT PIPE ARCH 0.075 IN. THICK 43 IN SPAN.
 25. SEE DRAINAGE PROFILE, SHEET 19 TO SHEET 23.
 26. SEE SPECIAL PROVISION: CULVERT PIPES.
 27. SEE DRAINAGE DETAIL, SHEET 19 TO SHEET 23.
 28. SEE SPECIAL PROVISION: RELAYING CULVERT PIPE.
 29. REMOVE 6 L.F. OF EXISTING 36 IN. DIAMETER CULVERT PIPE.

DRAWN		REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
CHECKED		10	WASH			
PROJ ENGR		JOB NUMBER		F-017(19)		
DIST ADM		CONTRACT NO.		3263		
DATE		REVISION		BY/APP'D		

DIVISION OF HIGHWAYS

Washington State
Department of Transportation

SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

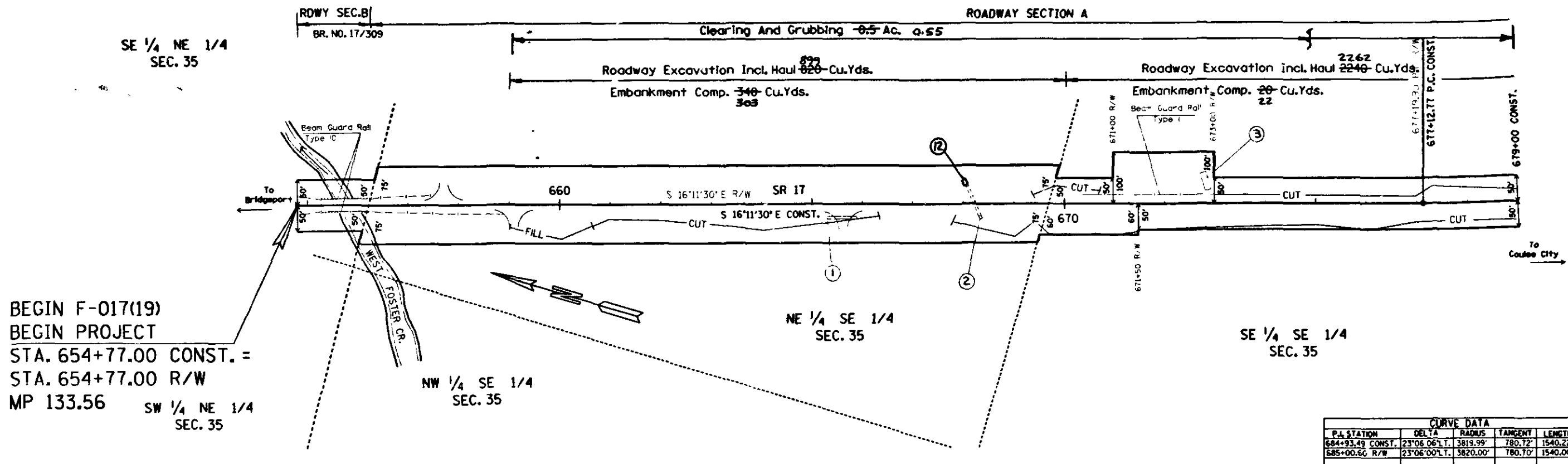
STRUCTURE NOTES

SHEET
13
OF
32
SHEETS

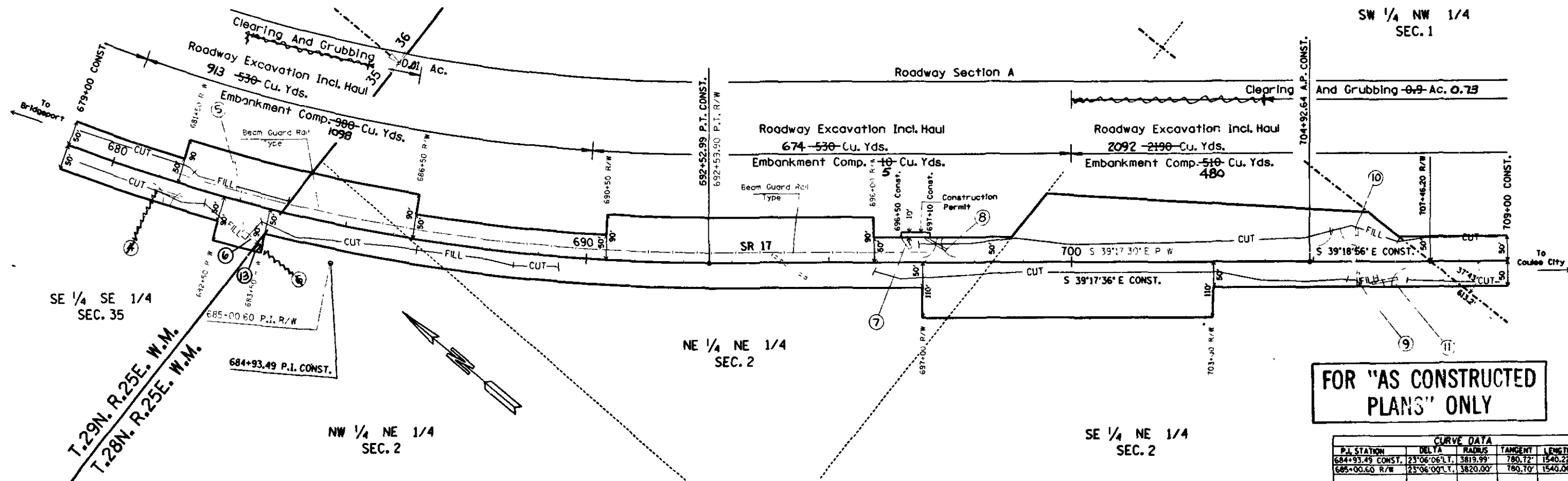
APR. 7, 1987

See Bridge Paving Detail, Sheet 27

T.29N. R.25E. W.M.



CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
684+93.49 CONST.	23°06'06" L.T.	3819.99'	780.72'	1540.22'
685+00.60 R/W	23°06'00" L.T.	3820.00'	780.70'	1540.00'



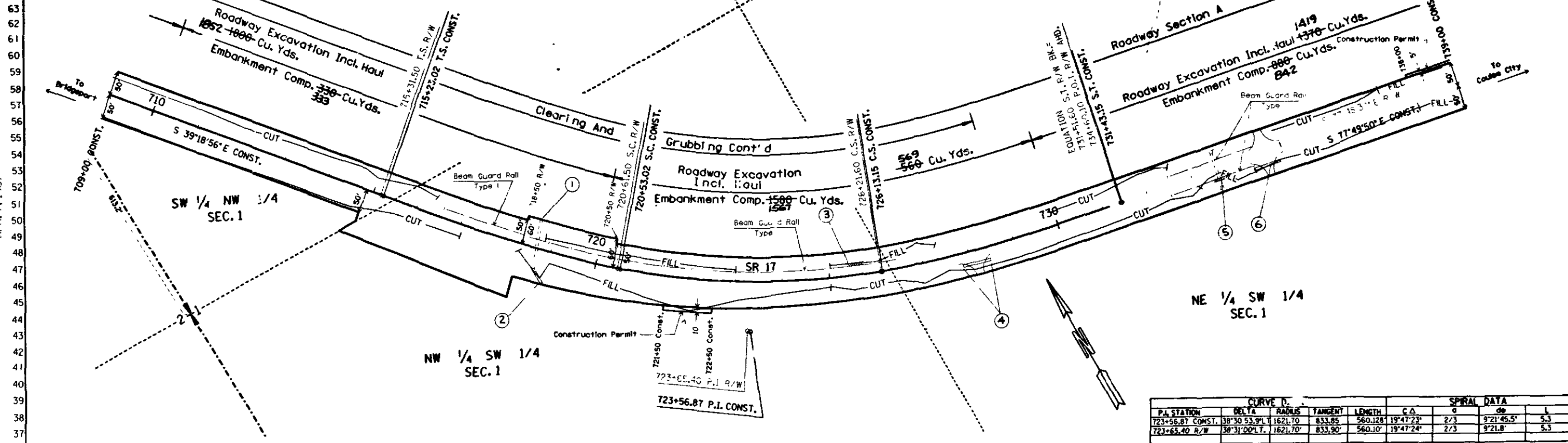
CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
684+93.49 CONST.	23°06'06" L.T.	3819.99'	780.72'	1540.22'
685+00.60 R/W	23°06'00" L.T.	3820.00'	780.70'	1540.00'

DESIGNED BY			ENTERED BY TRENT E. RICKMAN			CHECKED BY			PROJ. ENGR.			DIST. ADM.			DATE			DATE			REVISION			BY			3263			APPROVED			DIVISION OF HIGHWAYS			WASHINGTON STATE DEPARTMENT OF TRANSPORTATION			SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK			PLAN			SHEET 14 OF 32 SHEETS																	
FED. AID. PROJ. NO.			F-017(19)			REGION NO.			10			STATE			WASH			CONTRACT NO.			87E026			JOB NUMBER			3263			DATE			DATE			REVISION			BY			3263			APPROVED			DIVISION OF HIGHWAYS			WASHINGTON STATE DEPARTMENT OF TRANSPORTATION			SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK			PLAN			SHEET 14 OF 32 SHEETS		

3217/73

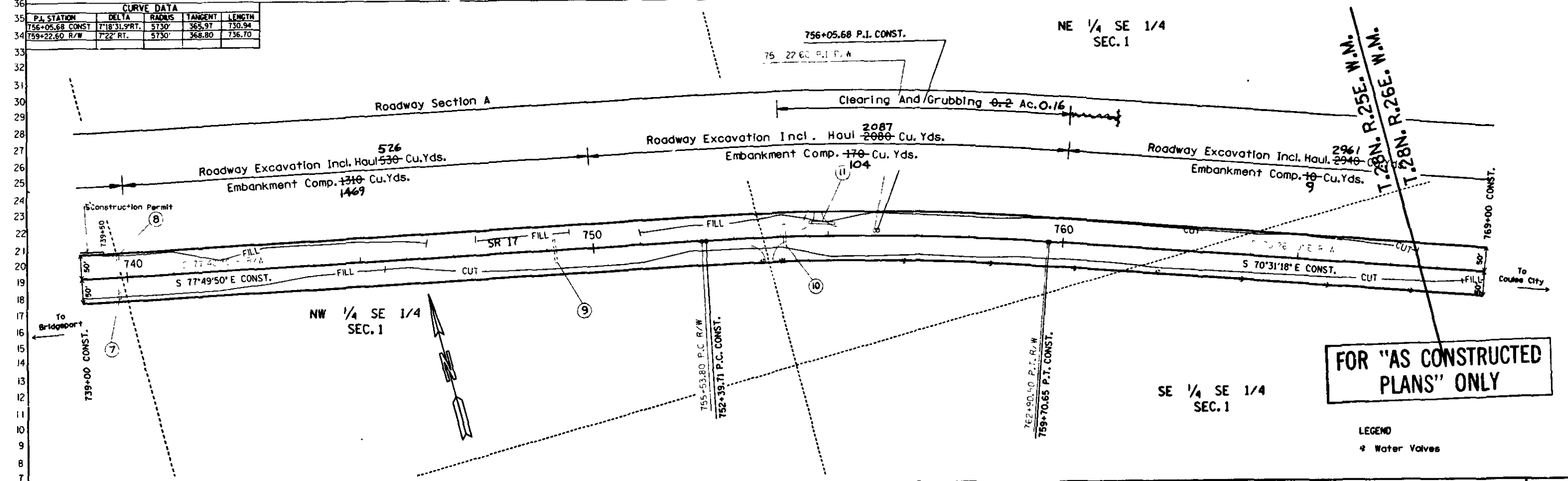
T.28N. R.25E. W.M.

APR. 7, 1987



P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
756+05.68 CONST.	7°18'31.9" RT.	5730'	365.97	730.94
759+22.60 R/W	7°22' RT.	5730'	368.80	736.70

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	CA	SPRAL DATA	SPRAL DATA	SPRAL DATA
723+56.87 CONST.	38°30'53.9" L	1621.70	833.85	560.128	19°47'23"	2/3	9°21'45.5"	5.3
723+65.40 R/W	38°31'00" L	1621.70	833.90	560.10	19°47'24"	2/3	9°21'45"	5.3



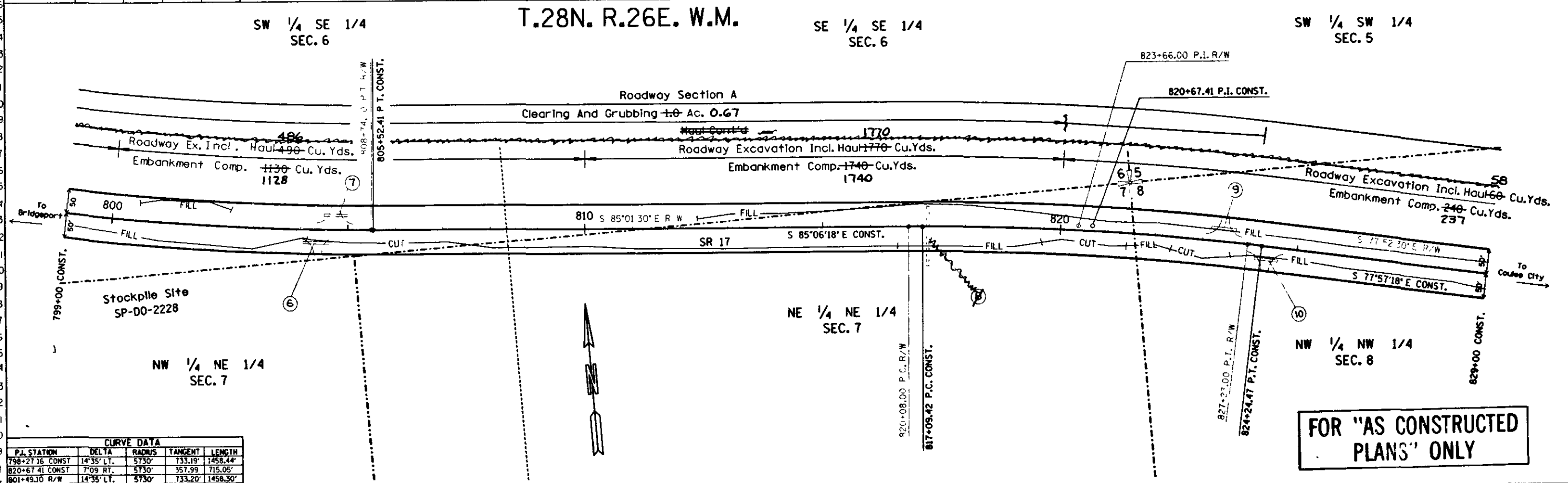
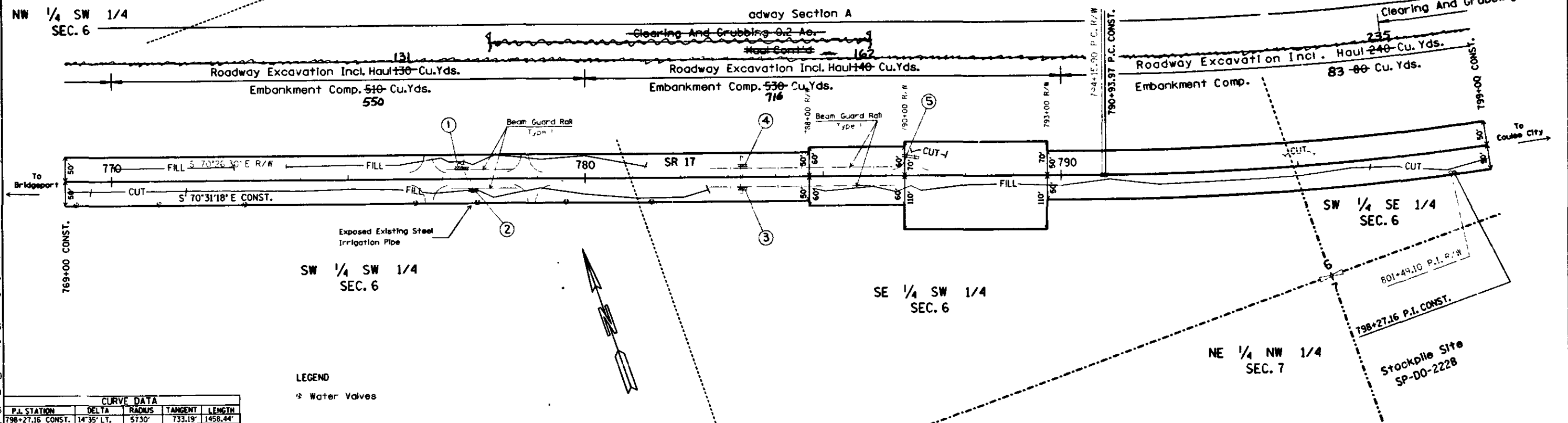
FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND
* Water Valves

DESIGNED BY	ENTERED BY	CHECKED BY	PROJ. ENGR.	DIST. ADM.	DATE	DATE	REVISION	BY	3263	REGION NO.	STATE	FED. AID. PROJ. NO.	DIVISION OF HIGHWAYS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK PLAN	SHEET 15 OF 32 SHEETS
										10	WASH	F-017(19)				
										JOB NUMBER						
										87E026						
										CONTRACT NO.						

5217/173

T.28N. R.26E. W.M.

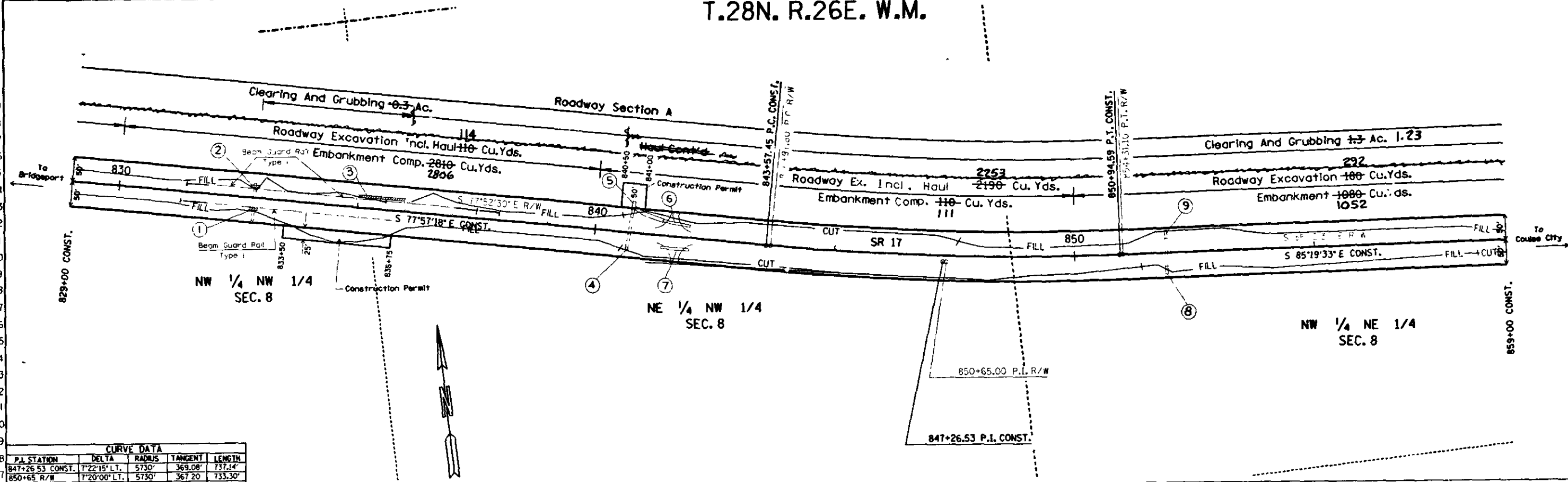


FOR "AS CONSTRUCTED
PLANS" ONLY

DESIGNED BY	ENTERED BY	CHECKED BY	PROJ. ENGR.	DIST. ADM.	DATE	DATE	REVISION	BY	REGION NO.	STATE	FED. AID. PROJ. NO.	DIVISION OF HIGHWAYS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK PLAN	SHEET 16 OF 32 SHEETS
									10	WASH	F-017(19)		CSA4:E110,2187E026.DGN		
									JOB NUMBER						
									87E026						
									CONTRACT NO.						
									3263						

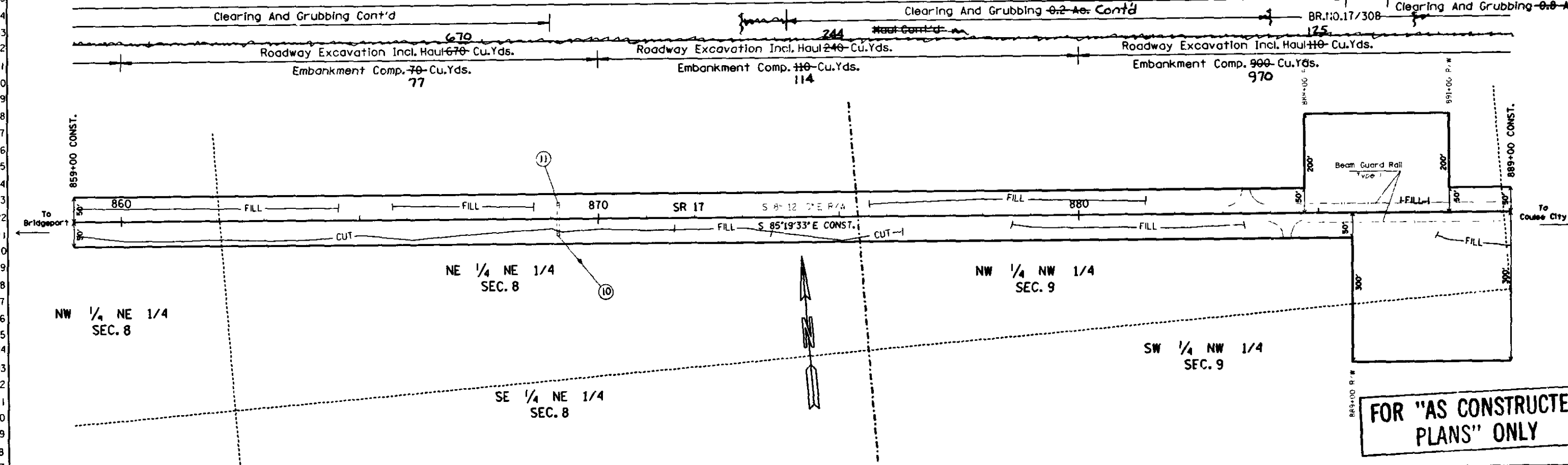
APR. 7, 1987

T.28N. R.26E. W.M.



CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
847+26.53 CONST.	7°22'15" L.T.	5730'	369.08'	737.14'
850+65 R/W	7°20'00" L.T.	5730'	367.20'	733.30'

T.28N. R.26E. W.M.



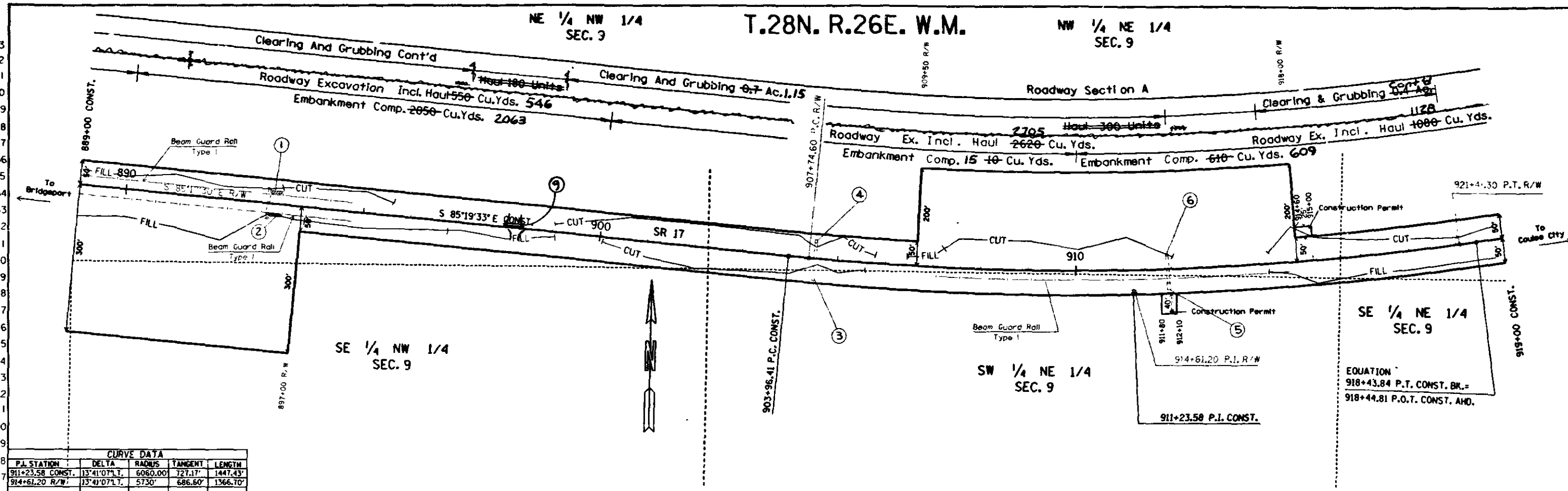
FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	ENTERED BY	CHECKED BY	PROJ. ENGR.	DIST. ADM.	DATE	DATE	REVISION	BY	REGION NO.	STATE	FED. AID. PROJ. NO.	DIVISION OF HIGHWAYS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK	SHEET 17 OF 32 SHEETS
									10	WASH	F-017(19)			PLAN	
									JOB NUMBER						
									87E026						
									CONTRACT NO.						
									3263						

APR. 7, 1987

NE 1/4 NW 1/4
SEC. 9

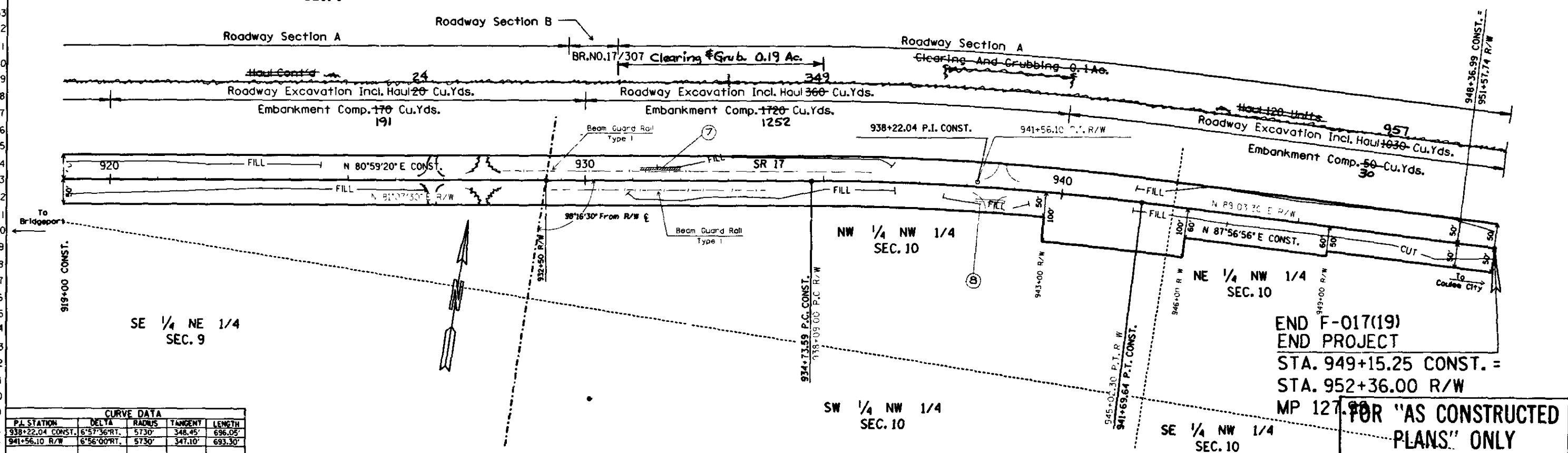
T.28N. R.26E. W.M.

NW 1/4 NE 1/4
SEC. 9

CURVE DATA				
P.L. STATION	DELTA	RADIUS	TANGENT	LENGTH
911+23.58 CONST.	13°41'07" L	6060.00	727.17	1447.43
914+61.20 R/W	13°41'07" L	5730	686.60	1366.70

NE 1/4 NE 1/4
SEC. 9

T.28N. R.26E. W.M.



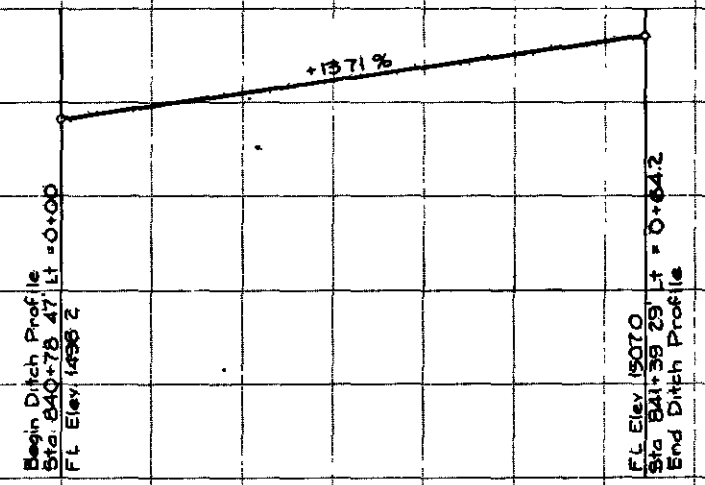
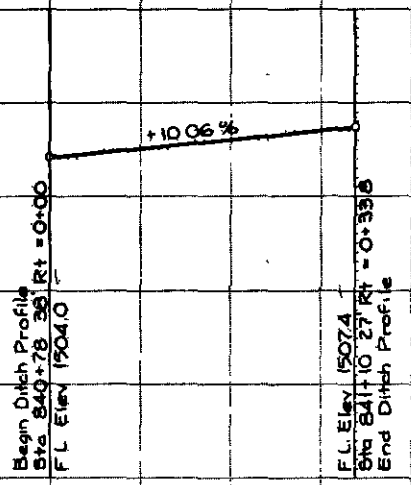
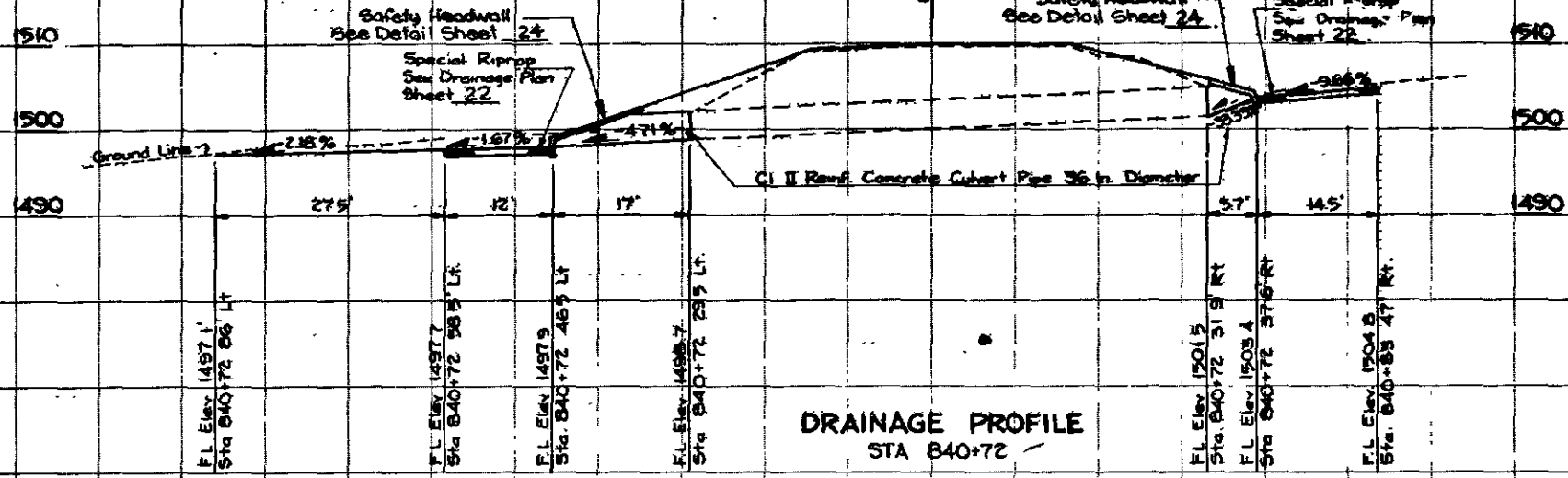
CURVE DATA				
P.L. STATION	DELTA	RADIUS	TANGENT	LENGTH
938+22.04 CONST.	6°57'36" RT	5730	348.45	696.05
941+56.10 R/W	6°56'00" RT	5730	347.10	693.30

END F-017(19)
END PROJECT
STA. 949+15.25 CONST. =
STA. 952+36.00 R/W
MP 127.88
FOR "AS CONSTRUCTED
PLANS" ONLY

DESIGNED BY	ENTERED BY	CHECKED BY	PROJ. ENGR.	DIST. ADM.	DATE	DATE	REVISION	BY	REGION NO.	STATE	FED. AID. PROJ. NO.	DIVISION OF HIGHWAYS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK	SHEET 18 OF 32 SHEETS
									10	WASH	F-017(19)		05A4(110,2187E026.DGN)	PLAN	

36 17/73

West Foster Cr 1/2 to East Foster Cr
SR 17 & 173 Douglas County
SHEET 19 OF 32 SHEETS



FOR "AS CONSTRUCTED
PLANS" ONLY

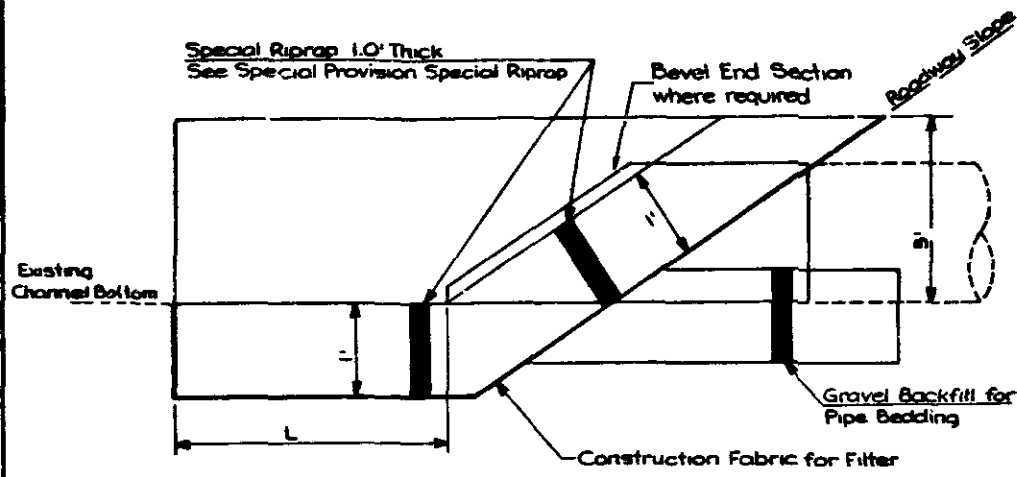
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STATE FED. AID PROJ. NO.				10 WASH F-017(19)			
JOB NUMBER				87E026			
CONTRACT NO.				3263			

HIGHWAY DIVISION

Washington State
Department of Transportation

SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

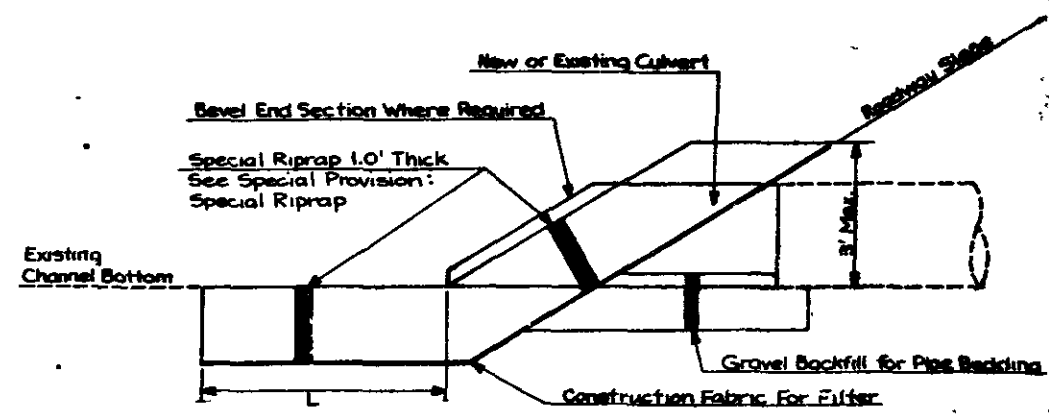
DRAINAGE PROFILES



DRAINAGE DETAIL 1 - ELEVATION VIEW
SPECIAL RIPRAP ON CULVERT INLET

STATION
683+32 Rt
718+97 Rt

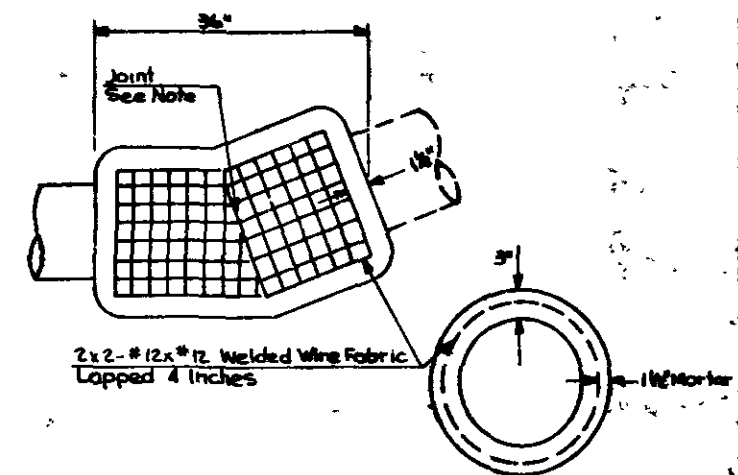
L
5'
6'



DRAINAGE DETAIL 2 - ELEVATION VIEW
SPECIAL RIPRAP ON CULVERT INLETS

STATION
851+91 Rt
911+43 Lt

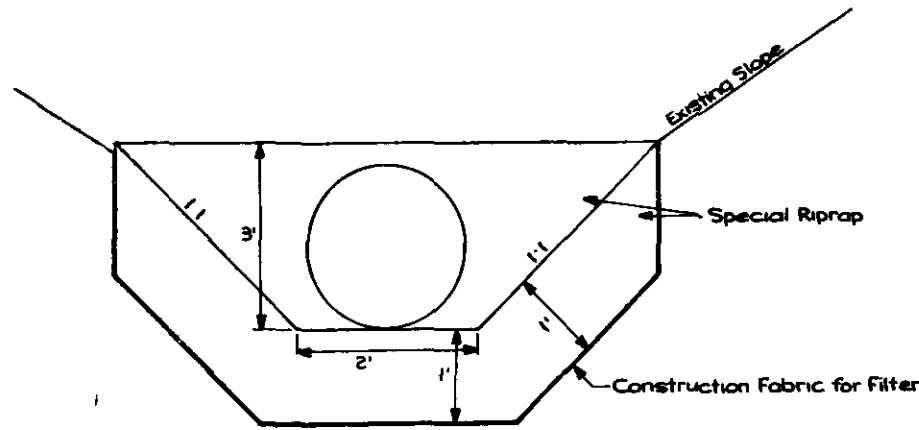
L
10'
10'



REINFORCED PIPE COLLAR DETAIL
(For Metal or Concrete Pipe)

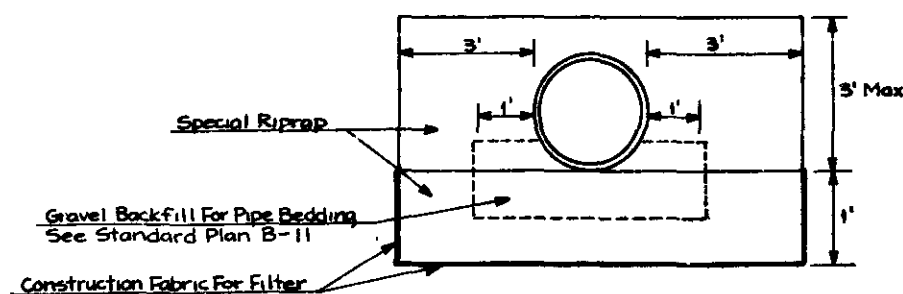
See Special Provision: Reinforced Pipe Collar

Note: Both the Existing Pipe and New Pipe
shall be cut to make a neat joint.



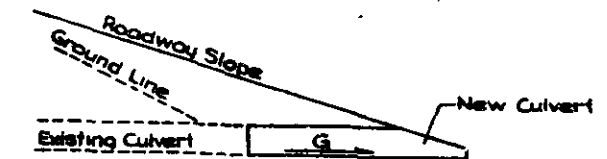
DRAINAGE DETAIL 1 - END VIEW
SPECIAL RIPRAP ON CULVERT INLETS

STATION
683+32 Rt
718+97 Rt



DRAINAGE DETAIL 2 - END VIEW
SPECIAL RIPRAP ON CULVERT INLETS

STATION
851+91 Rt
911+43 Lt



DRAINAGE DETAIL - PIPE EXTENSION PLACEMENT

STATION	G(%)	STATION	G(%)
668+23 Rt	+7.0	840+72 Lt	-4.67
682+97 Rt	+21.05	851+91 Rt	+2.1
705+92 Rt	+2.6	851+91 Lt	-2.1
705+92 Lt	-1.0	869+16 Rt	+1.0
718+97 Rt	+5.4	869+16 Lt	-1.0
739+82 Rt	+9.4	904+52 Rt	-11.0
739+82 Lt	-3.7	904+52 Lt	+11.0
840+72 Rt	+33.0		

FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN	CHECKED	PROJ ENGR	DIST ADM.	DATE	REVISION	BY	APP'D	REASON	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
									10	WASH F-017(19)		
									JOB NUMBER			
									87E026			
									CONTRACT NO			
									3243			

HIGHWAY DIVISION

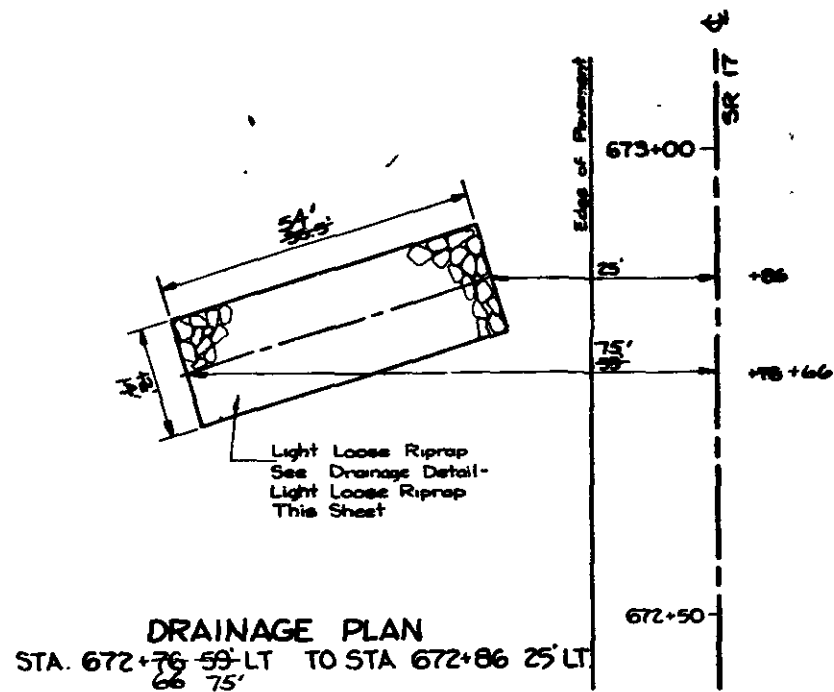
APPROVED

Washington State
Department of Transportation

SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

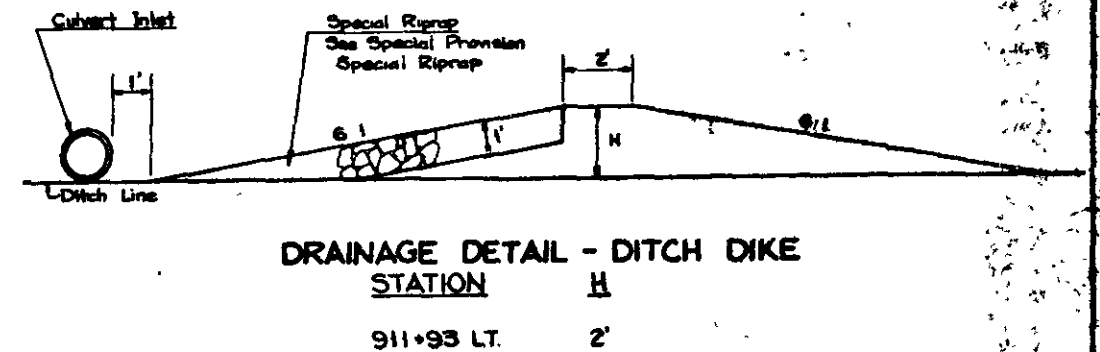
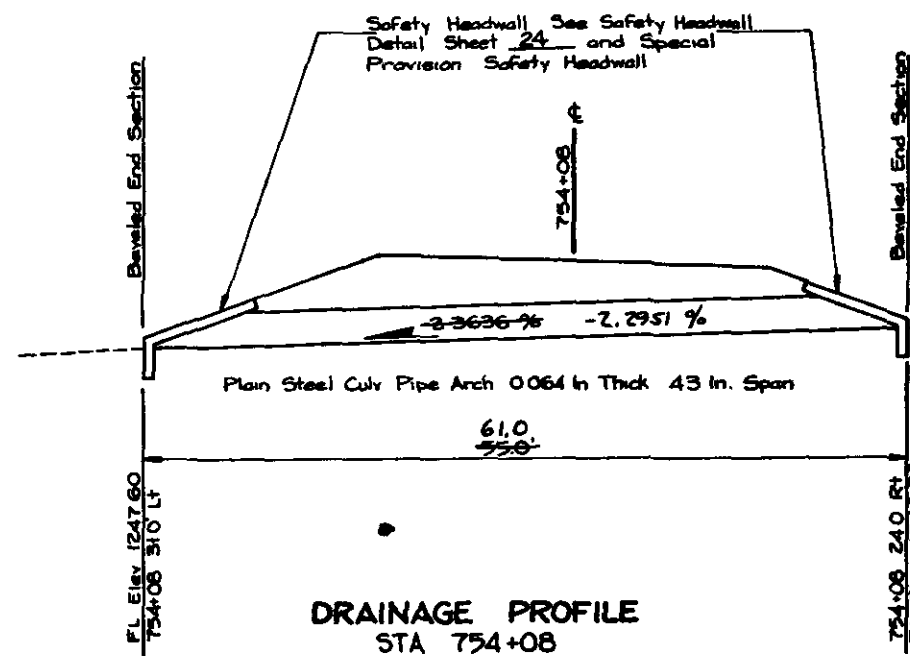
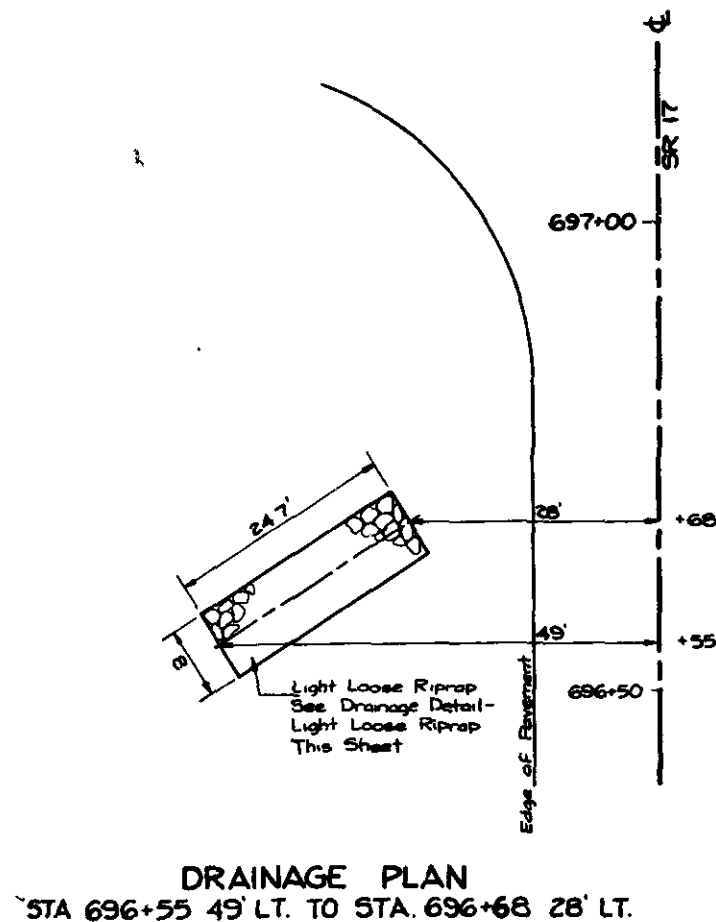
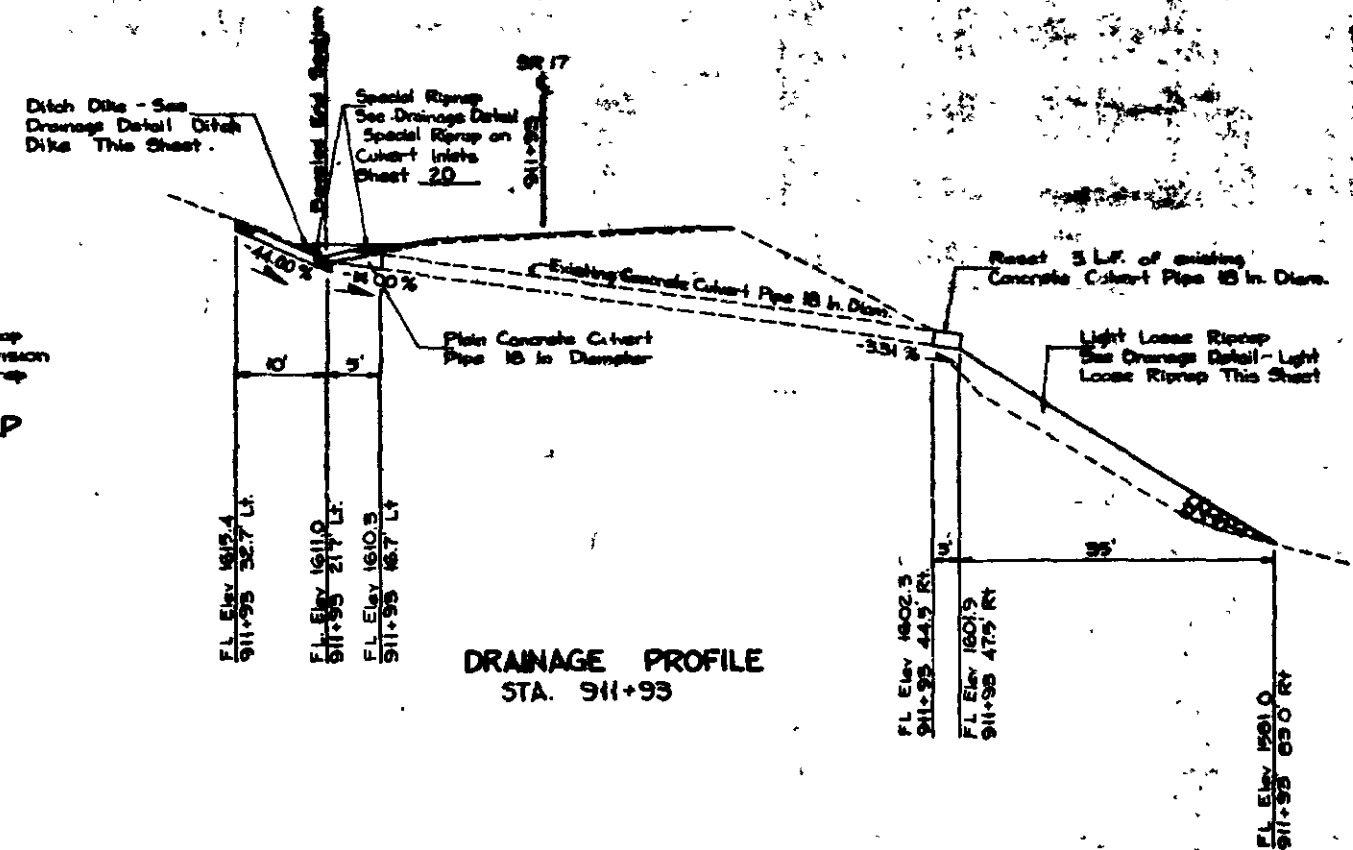
DRAINAGE DETAILS

20
32



DRAINAGE DETAIL - LIGHT LOOSE RIPRAP

STATION	TO	STATION	L
672+66 LT.		672+86 LT.	6'
696+55 LT.		696+68 LT.	4'
911+93 LT.			4'



FOR "AS CONSTRUCTED
PLANS" ONLY

DATE	REVISION	BY	APP'D	CONTRACT NO.	TOTAL SHEETS
				3 243	

DRAWN		10	WASH	F-017(19)	
CHECKED					
PROJ ENGR.					
DIST. ADM.					

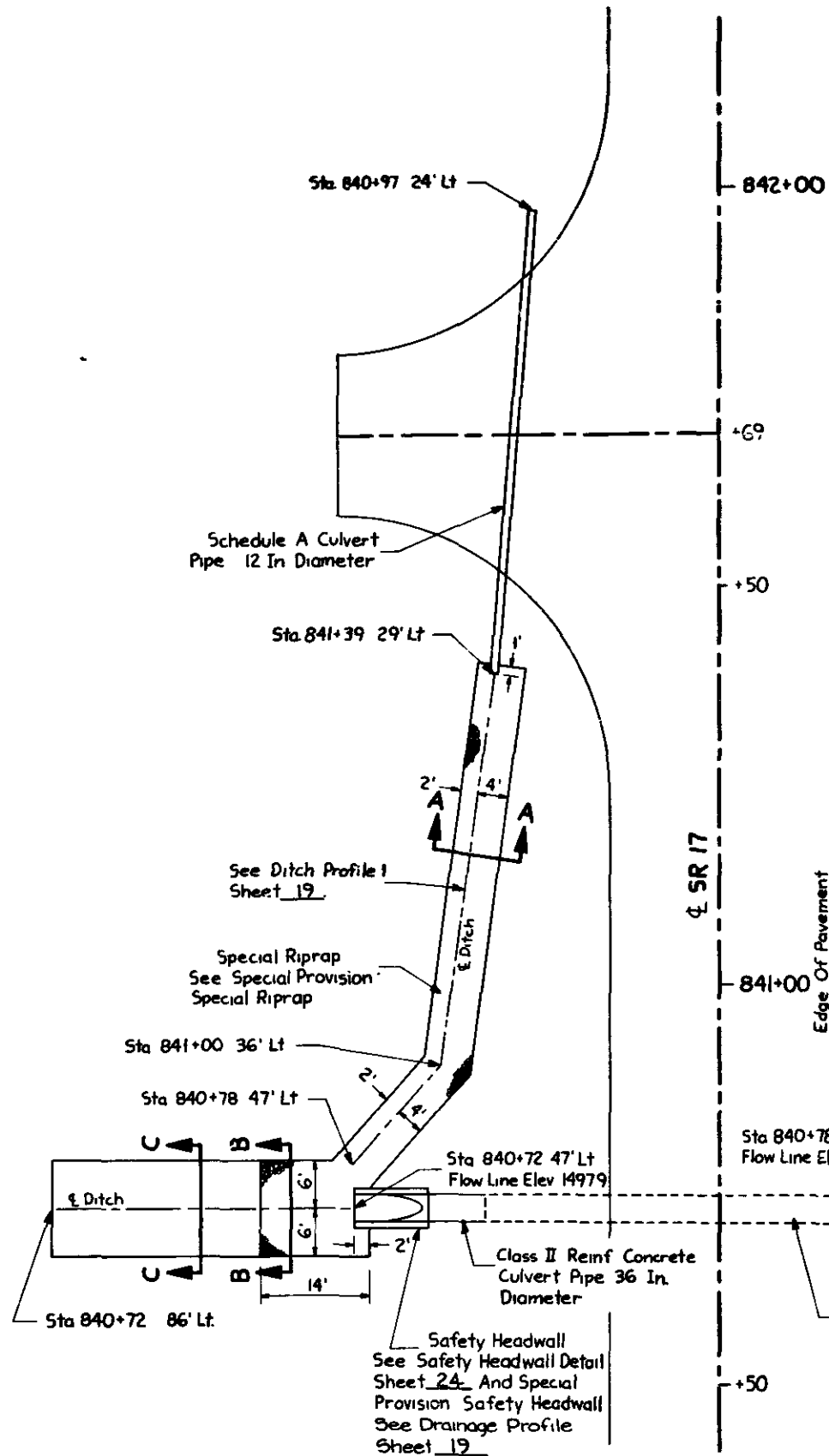
HIGHWAY DIVISION

Washington State
Department of Transportation

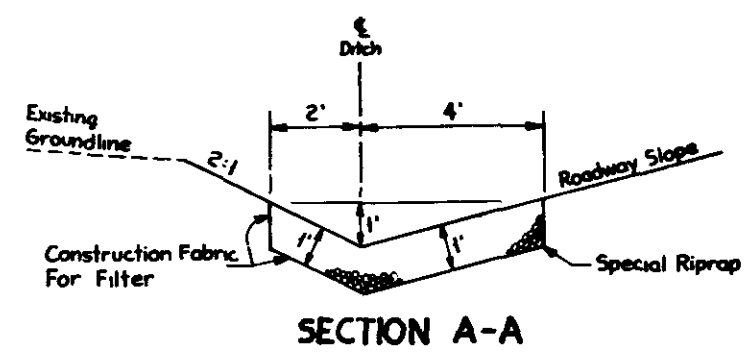
SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

DRAINAGE DETAILS

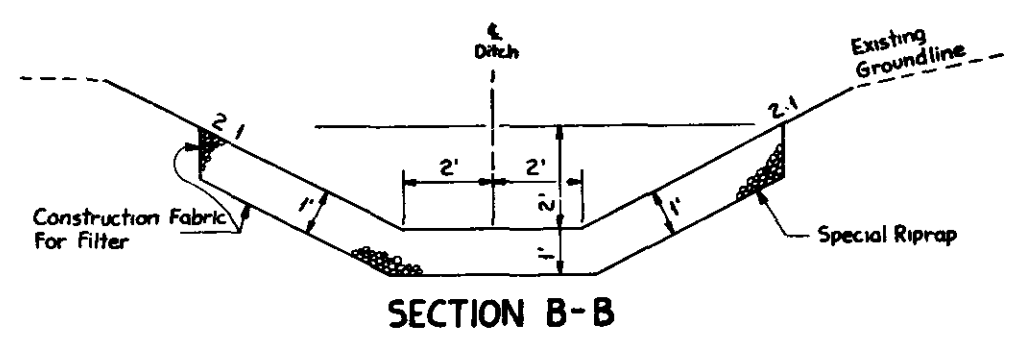
SHEET
21
OF
32



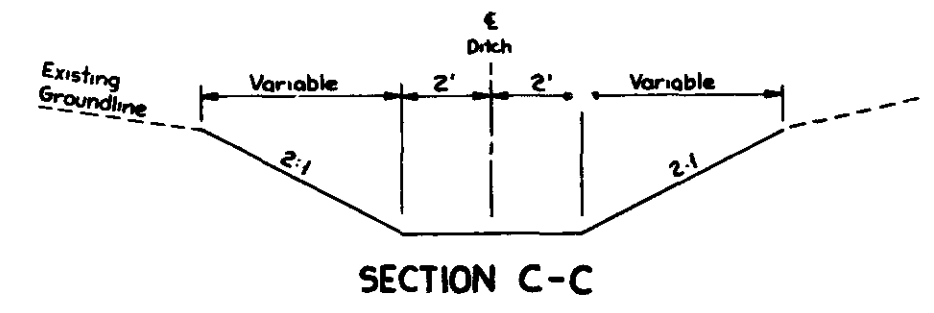
DRAINAGE PLAN
Sta 840+72 Lt. & Rt.



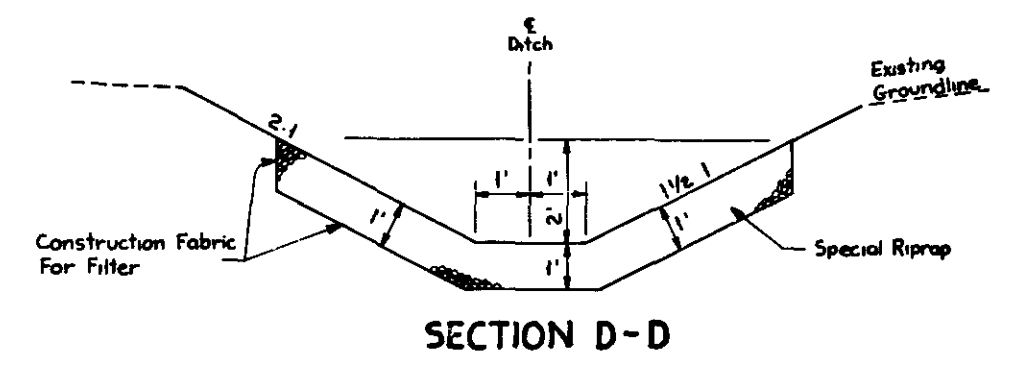
SECTION A-A



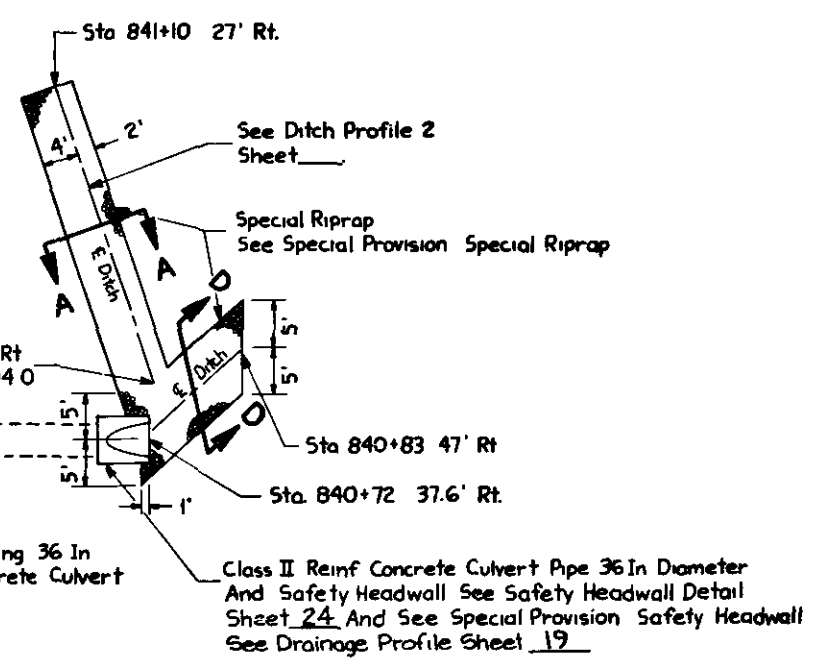
SECTION B-B



SECTION C-C

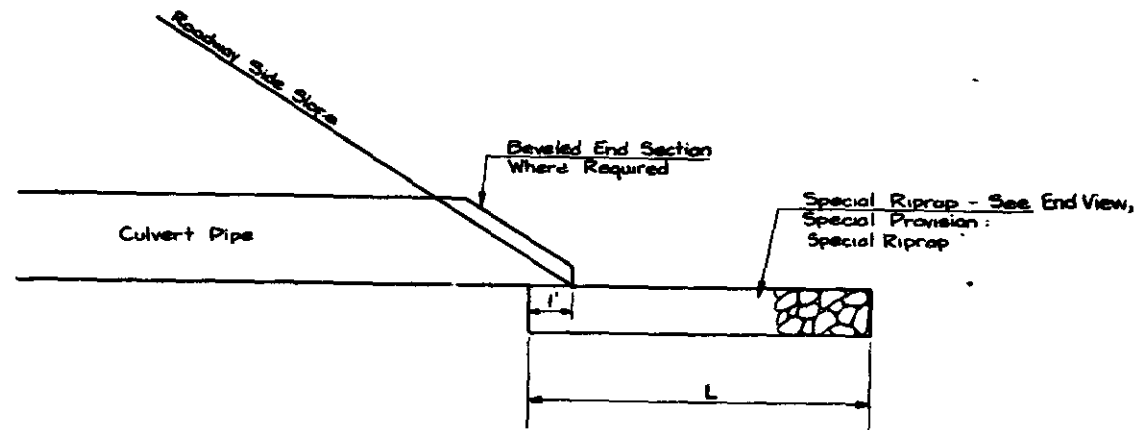


SECTION D-D



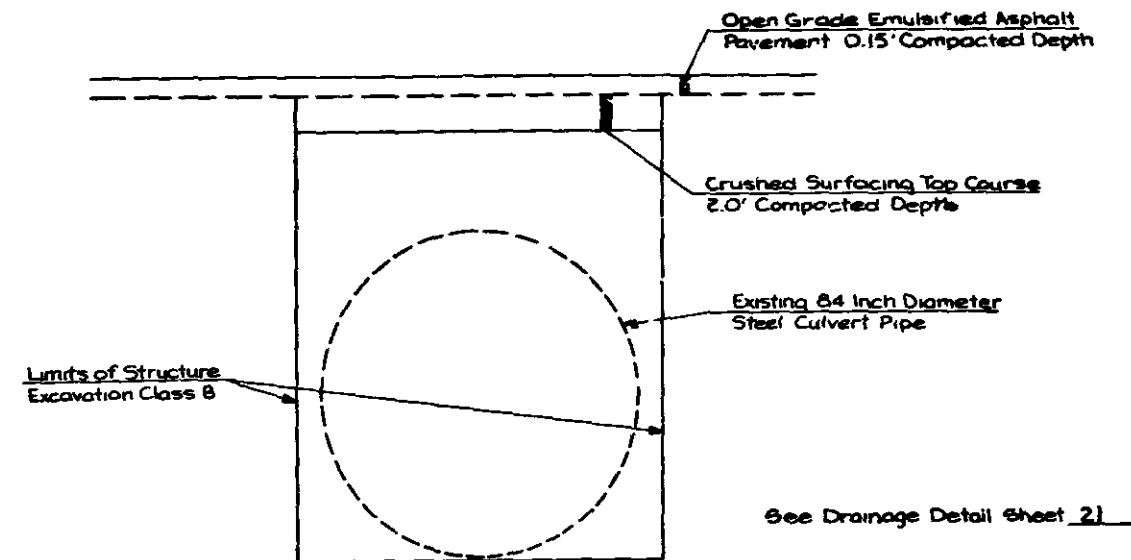
No Change
**FOR "AS CONSTRUCTED
PLANS" ONLY**

DRAWN	DATE	REVISION	BY	APP'D	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Trent E. Rickman					10	WASH	F-017(19)		
							JOB NUMBER		
							87E026		
							CONTRACT NO.		
							3263		



DRAINAGE DETAIL - SPECIAL RIPRAP AT CULVERT OUTLETS
ELEVATION VIEW

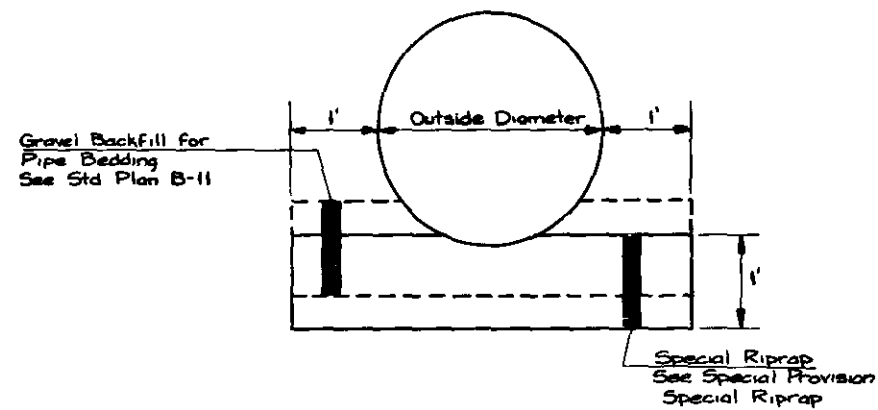
STATION	L
682+49 Lt	16'
706+20 Rt	6'
786+66 Lt	8'
904+52 Rt	5'



PATCHING DETAIL FOR PIPE CROSSING

See Special Provision: Removing 84 inch Culvert

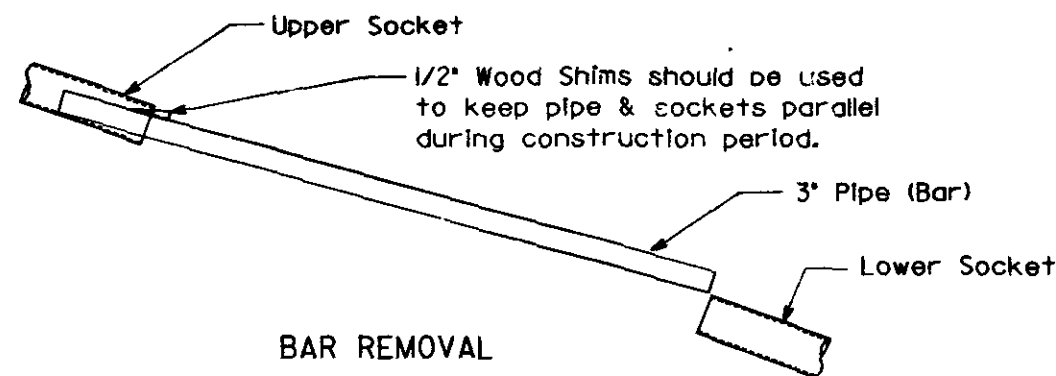
STA. 754+08



DRAINAGE DETAIL - SPECIAL RIPRAP AT CULVERT OUTLETS
END VIEW

No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

DRAWN		CHECKED		PROJ. ENGR.		DIST. ADM.		DATE		REVISION		BY/APPD		APPROVED		HIGHWAY DIVISION		Washington State Department of Transportation		SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		DRAINAGE AND PATCHING DETAILS	
10		WASH		F-017(19)		JOB NUMBER 87E026		CONTRACT NO 3263															



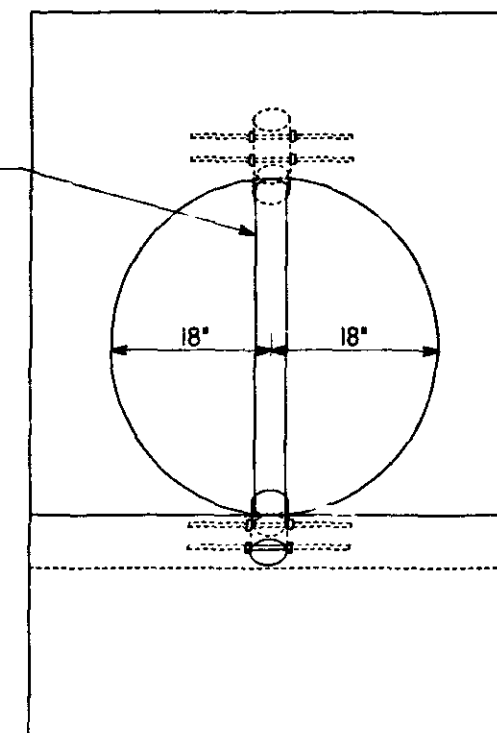
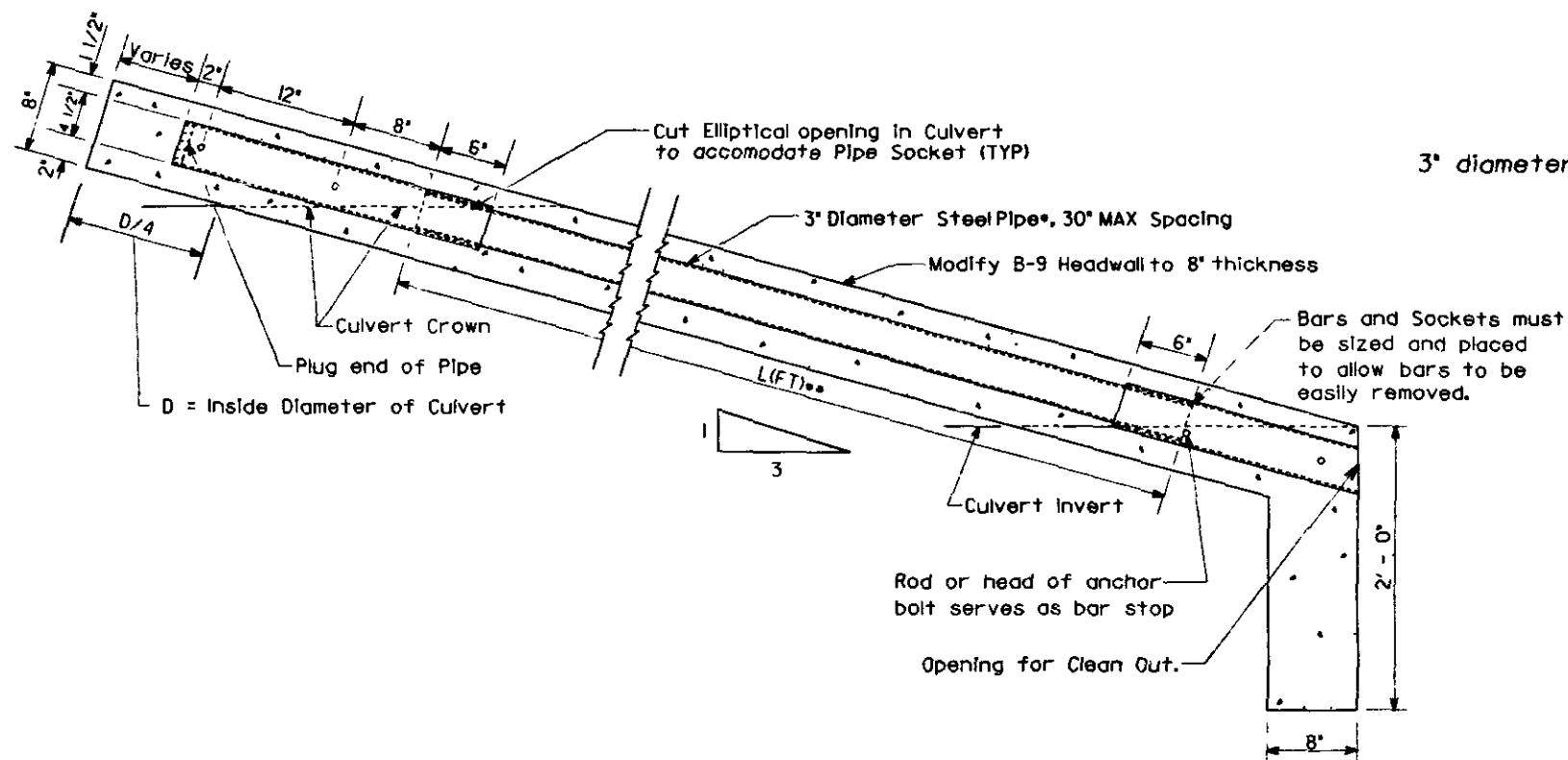
BAR REMOVAL

Pipe Arch Span Or Culvert DIA (Inches)	Required Number of pipes
Up to 30"	None
36" - 60"	1
66" - 90"	2
96" - 120"	3

NOTES:

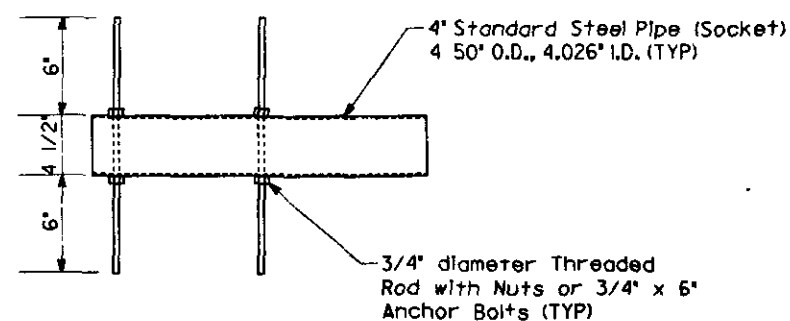
Reinforcement for Headwall and other details shall be in conformance with Standard Plan B-9 "Headwalls for Steel and Aluminum Pipes." Use ASTM A 53 galvanized steel pipe, for bars.

Steel Pipe *	O.D. (IN)	I.D. (IN)	L (MAX) (FT)**
Standard	3.500	3.068	15
Extra Strong	3.500	2.900	20
Double Extra Strong	3.500	2.300	30



Front view for 36" Culvert with Headwall

SAFETY BARS FOR CULVERT HEADWALLS



SOCKET DETAILS

STA. 705+92 LT. & RT.

STA. 754+08 LT. & RT.

STA. 840+72 LT. & RT.

No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

[illegible]



Diagram illustrating a road cross-section. The width is 20' Min. The top course is labeled "Variable" and "Special Top Course 0.50' Compacted Depth". The slope is indicated as 2:1 on the left and 3:1 on the right. The vertical axis is labeled "Variable". The horizontal axis is labeled "0.02'/ft.".

Shoulder Slope

30' Minimum

± 0.02'/Ft.

Vertical Curves

100' Minimum

± 0.02'/'Ft.

± 15% max.

-15% min.

Difference from shoulder slope

Vertical curves not to exceed a 3 1/4" hump or a 2" depression in a 10' chord

Limit of Open Graded Emulsified Asphalt Pavement on main line

35' R

20'

20' R

Schedule A Culvert Pipe 12 in. Diameter

Q=34

Q=50

Q=14

5'

11'

5'

Edges of Shoulder

Edges of Driving Lane

SR 17


687+00

687+25

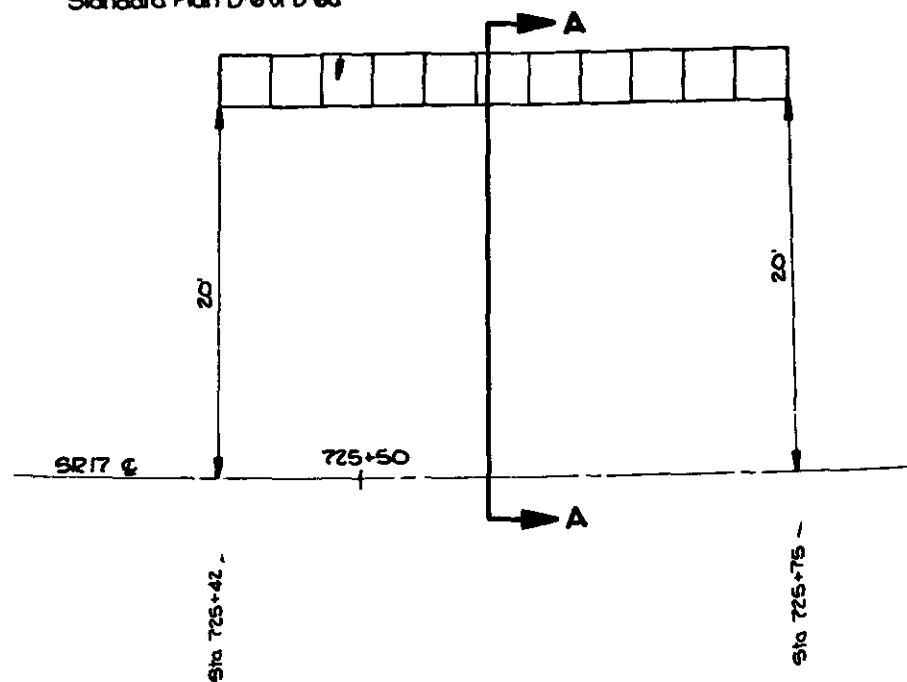
687+27

See Special Provision: Road Approach

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PLANS" ONLY.**

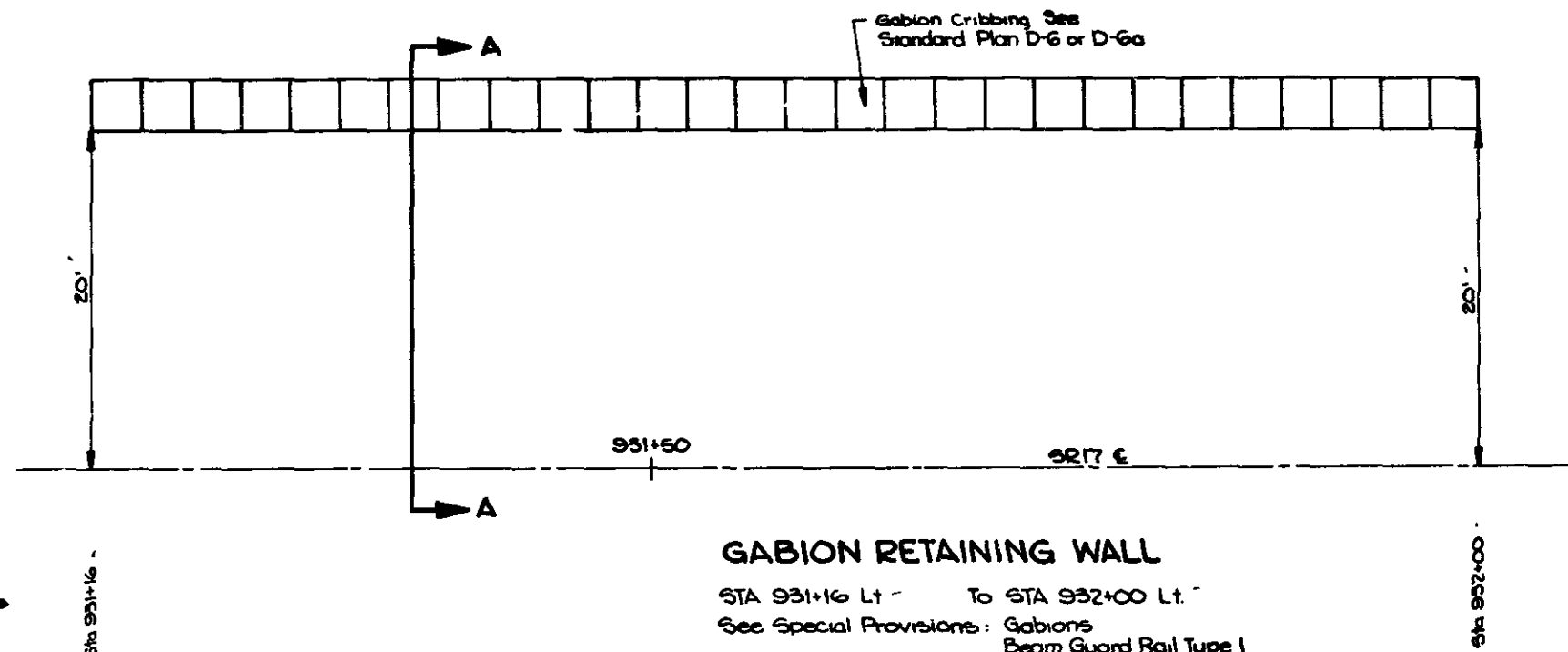
				SECTION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	<div style="text-align: center;"> <h1>HIGHWAY DIVISION</h1>  <h2>Washington State Department of Transportation</h2> </div>		<div style="text-align: center;"> <p>SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK</p> <h3>ROAD APPROACH PLAN</h3> </div>		SHEET 25 OF 32 PAGES
DRAWN				10	WASH	F-017(19)							
CHECKED				JOB NUMBER									
PROJ. ENGR.				87E026									
DIST. ADM.				CONTRACT NO.									
DATE				REVISION		BY APP'D		APPROVED					
						3263							

WEST FOSTER CR 3R TO EAST FOSTER CR
SR 17 & 173 DOUGLAS COUNTY
SHEET 250 OF 325 SHEETS



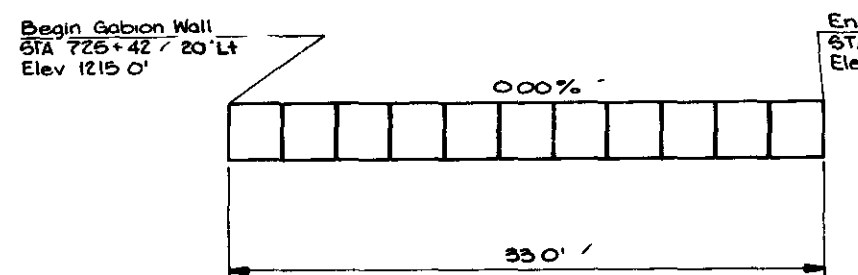
GABION RETAINING WALL

STA 725+42 Lt. To STA 725+75 Lt.
See Special Provisions. Gabions
Beam Guard Rail Type 1



GABION RETAINING WALL

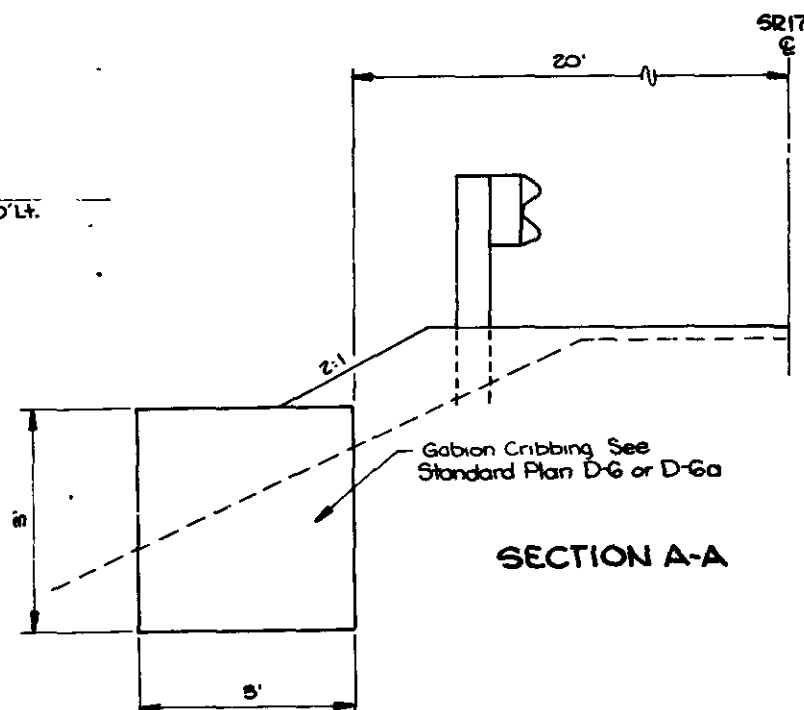
STA 931+16 Lt. - To STA 932+00 Lt. -
See Special Provisions: Gabions
Beam Guard Rail Type 1



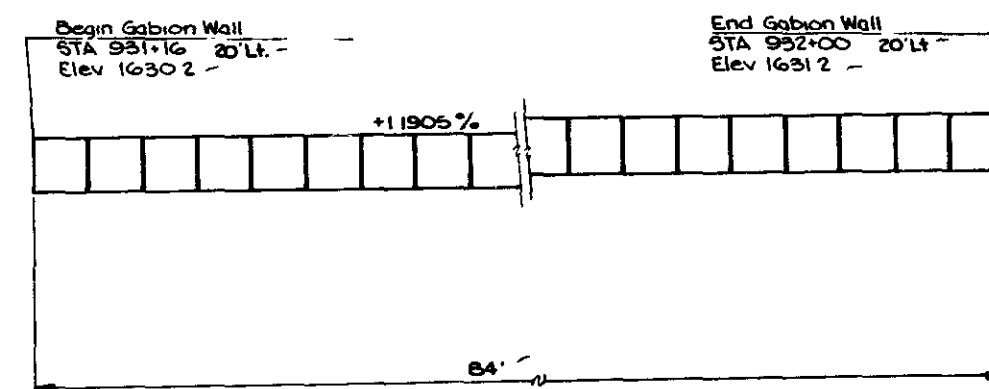
PROFILE GABION RETAINING WALL

STA. 725+42 Lt To STA 725+75 Lt

End Gabion Wall
STA 725+75 20' Lt.
Elev 1215.0'



SECTION A-A



PROFILE

GABION RETAINING WALL

STA 931+16 Lt. To STA 932+00 Lt.

No Charge
FOR "AS CONSTRUCTED
PLANS" ONLY

[illegible]

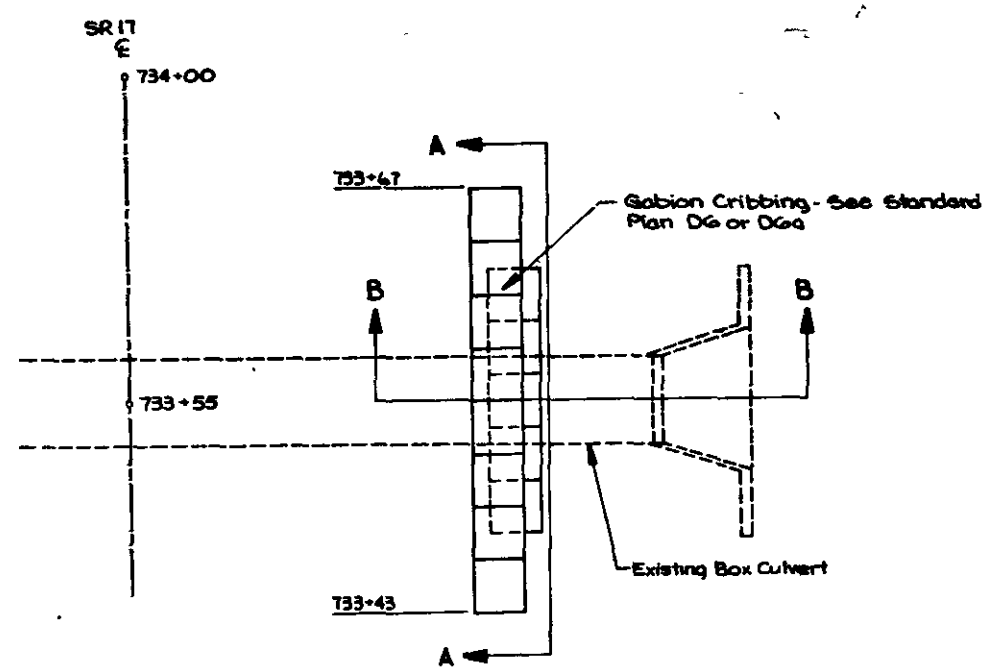
**Washington State
Department of Transportation**

**SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK**

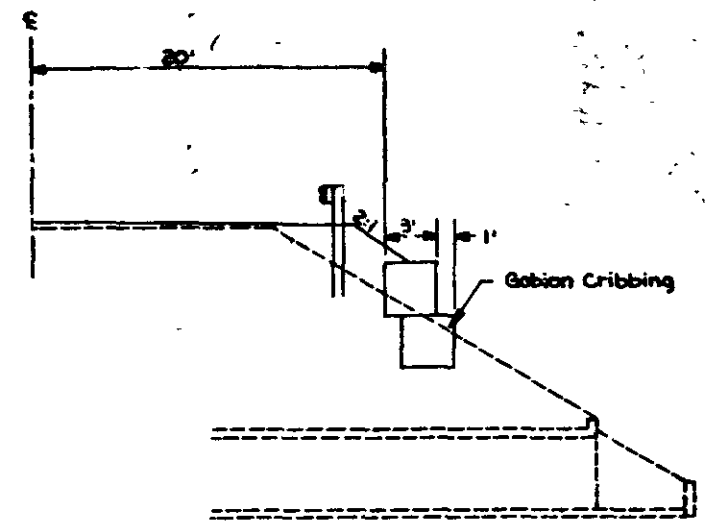
GABION RETAINING WALL

SHEET
28
32

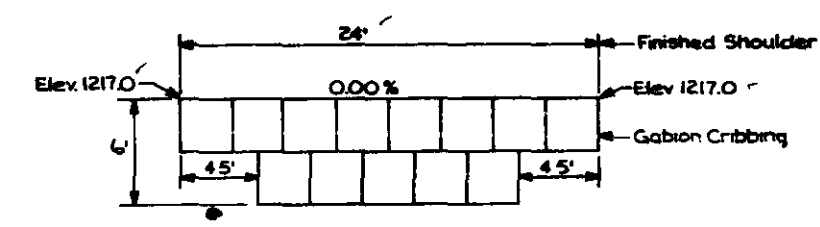
WEST FOSTER CR BR TO EAST FOSTER CR.
 SR 17 & 173 Douglas County
 SHEET 26 OF 32 SHEETS



GABION PLACEMENT DETAIL
 733+43 R1 To 733+67 R1.
 See Special Provisions: Gabions and
 Beam Guard Rail Type I



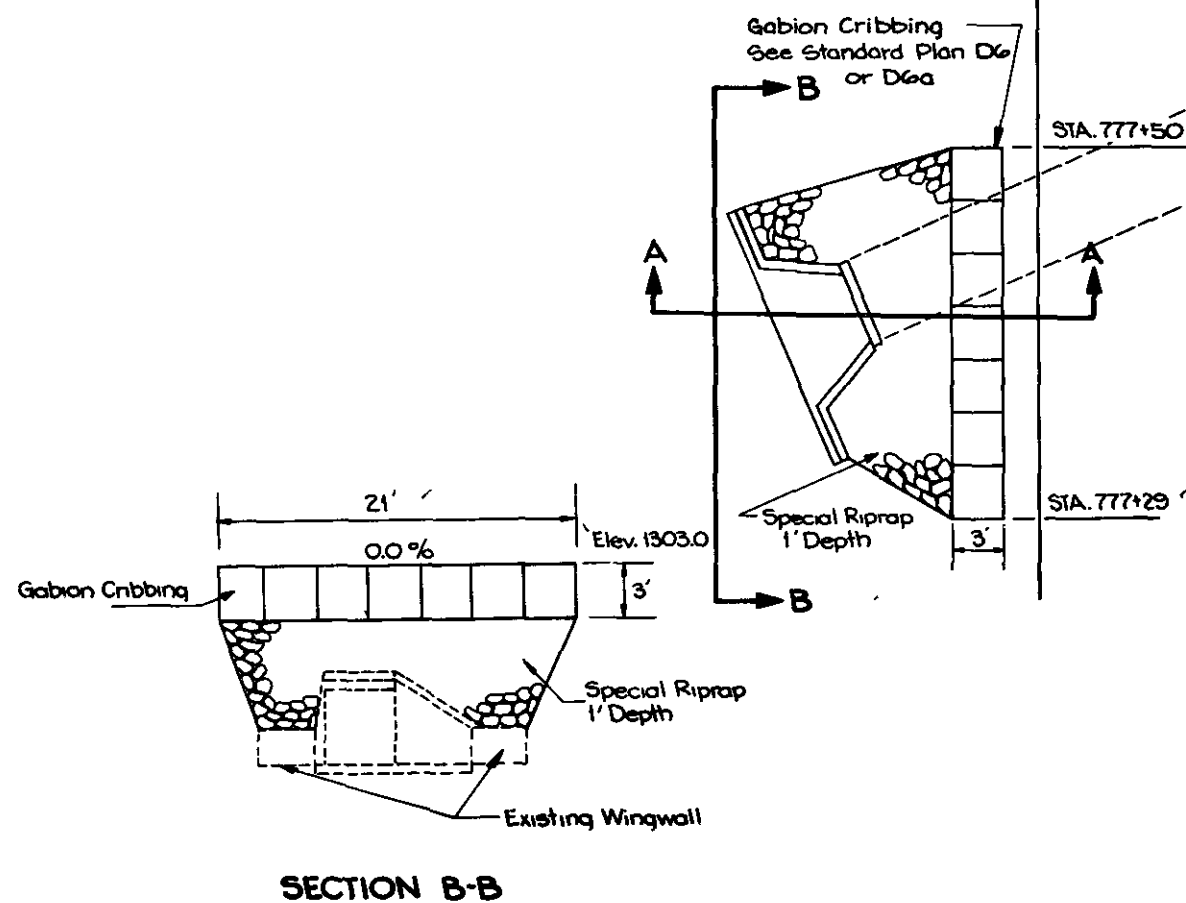
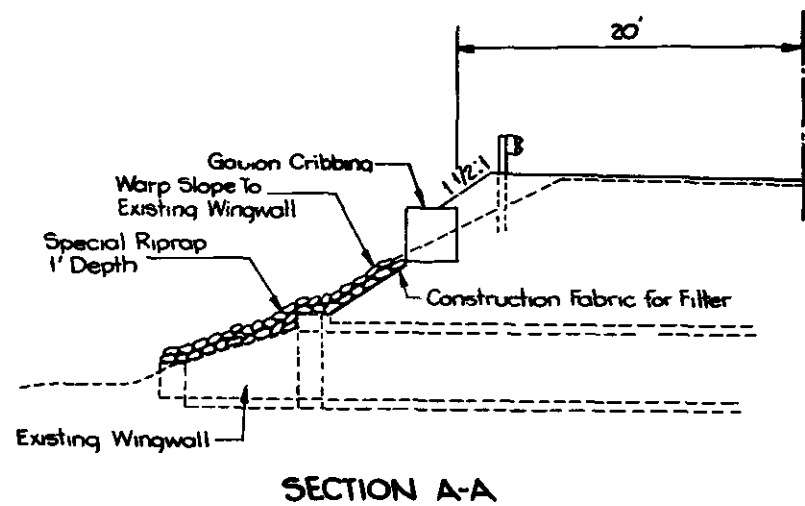
SECTION B-B



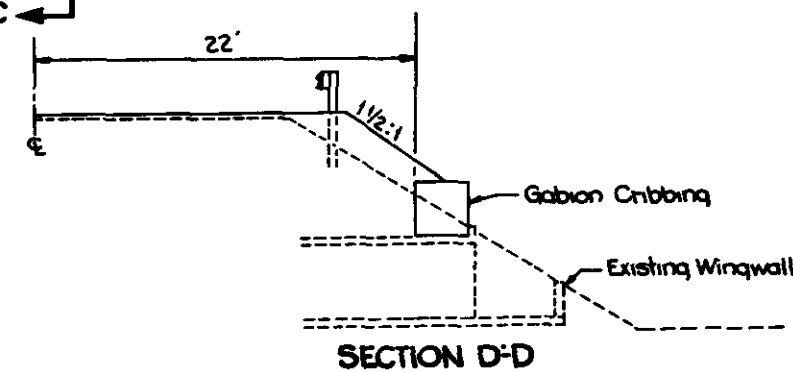
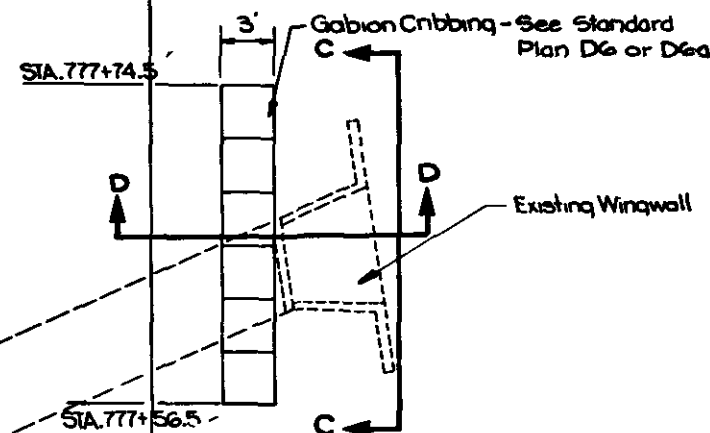
SECTION A-A

No Change
**FOR "AS CONSTRUCTED
 PLANS" ONLY**

				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	HIGHWAY DIVISION		Washington State Department of Transportation	SR 17 AND SR 173 WEST FOSTER CREEK BRIDGE TO EAST FOSTER CREEK		SHEET 29 OF 32 SHEETS
				10	WASH	F-017(19)						GABION RETAINING WALL		
DRAWN				JOB NUMBER				87E026		APPROVED				
CHECKED				CONTRACT NO.				3243						
PROJ ENGR.				DATE				REVISION		BY		APP'D		
DIST ADM.														



SR 17



GABION PLACEMENT DETAIL

STA. 777+29 LT. To 777+50 LT.
STA. 777+56.5 RT. To 777+74.5 RT.

See Special Provisions: Gabions
Construction Fabric
Special Riprap

No Change
FOR "AS CONSTRUCTED
FLANS" ONLY

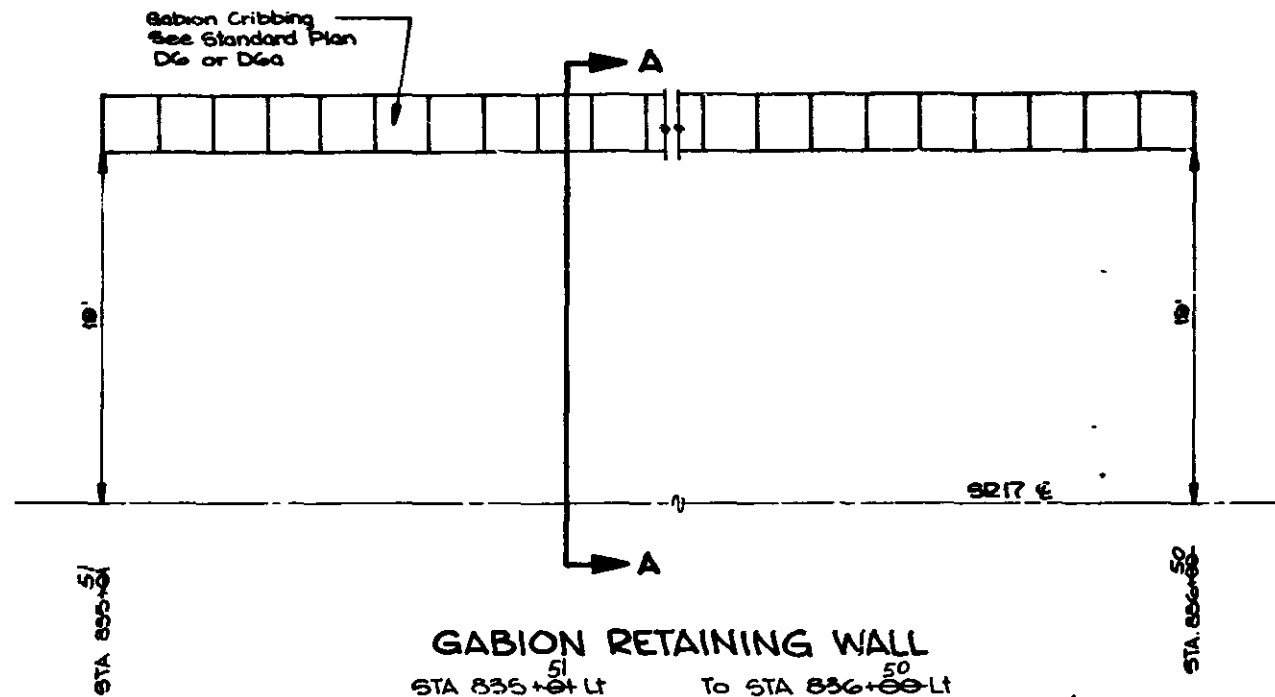
DATE	REVISION	BY	APP'D	CONTRACT NO.	STATE	FED. AID PROJ. NO.	REVISION	TOTAL SHEETS
				3263	10	WASH		
						F-017(19)		
						87E026		

Washington State
Department of Transportation

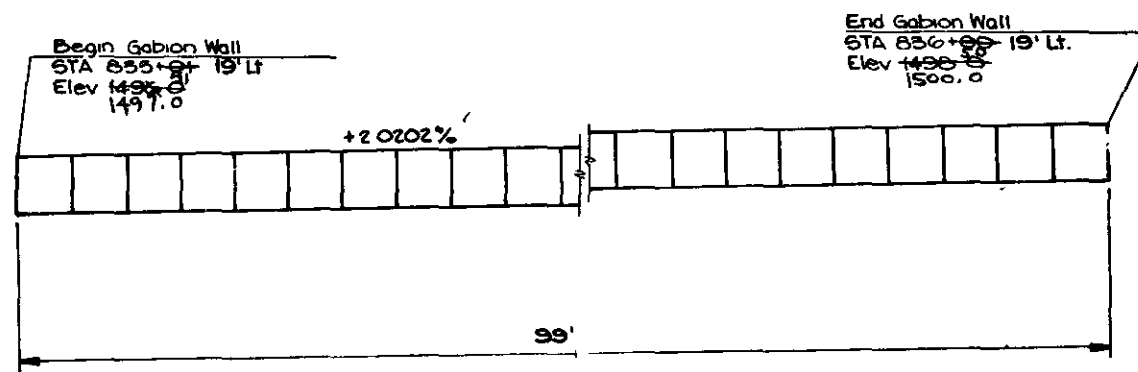
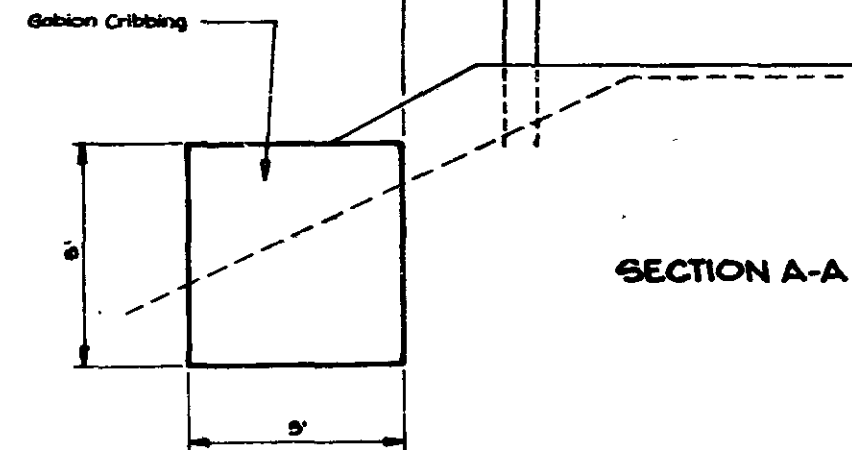
SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

GABION RETAINING WALL

30
32



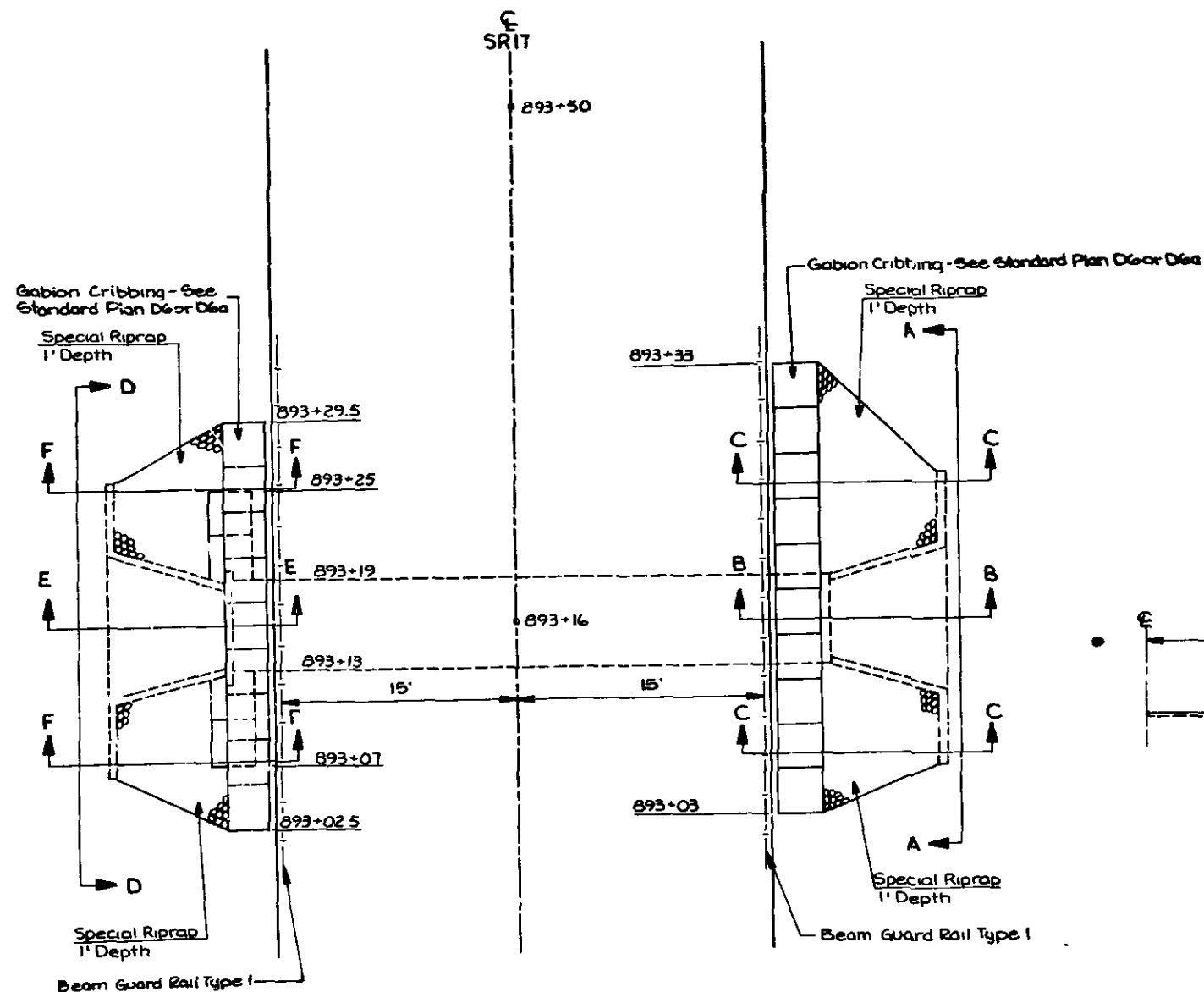
GABION RETAINING WALL
 STA 835+51 Lt. To STA 836+50 Lt.
 See Special Provisions: Gabions
 Beam Guard Rail Type 1



PROFILE
GABION RETAINING WALL
 STA 835+51 Lt. To STA 836+50 Lt.

FOR "AS CONSTRUCTED
PLANS" ONLY

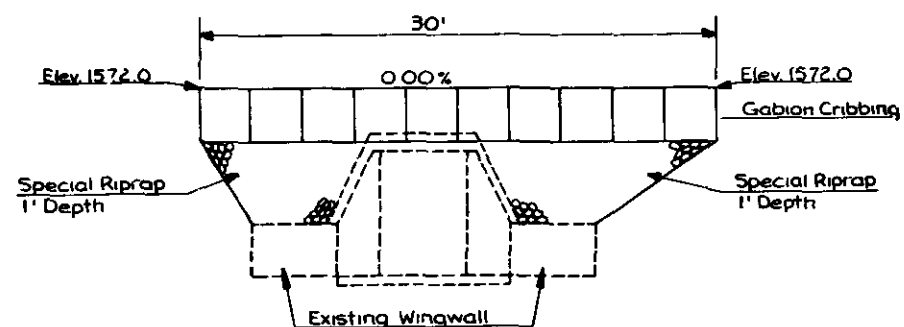
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CHECKED		JOB NUMBER 87E026		CONTRACT NO 3263		APPROVED				GABION RETAINING WALL		31 32	
PROJ. ENGR.													
DIST. ADM.													
DATE		REVISION		BY APP'D									



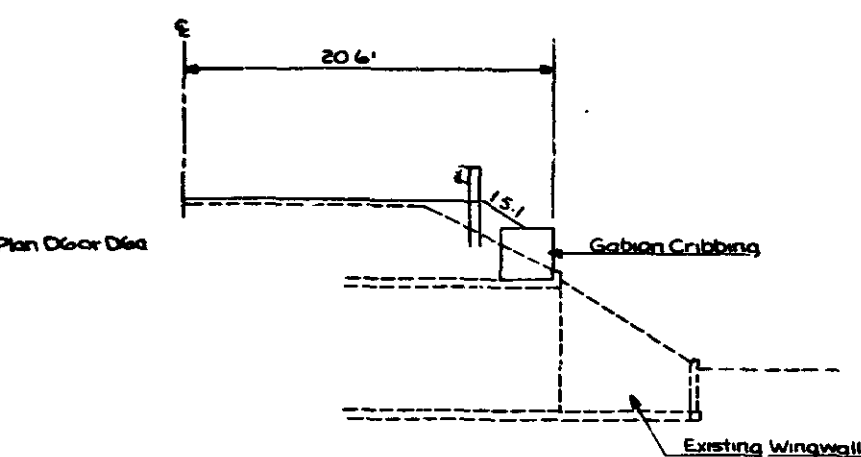
GABION PLACEMENT DETAIL

893+16 LT & RT

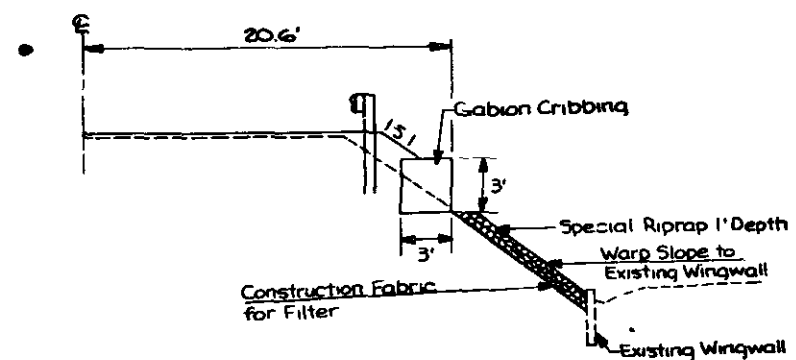
See Special Provisions: Gabions, Construction Fabric, Beam Guard Rail Type I, Special Riprap



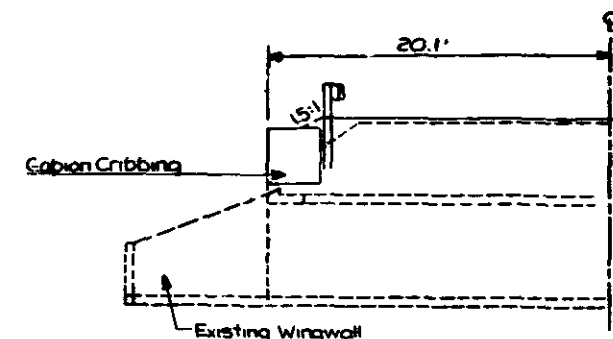
SECTION A-A



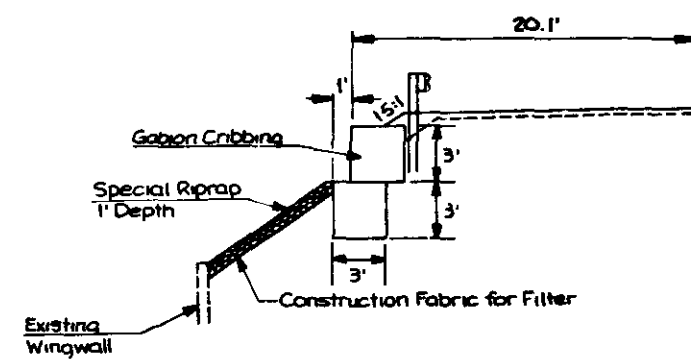
SECTION B-B



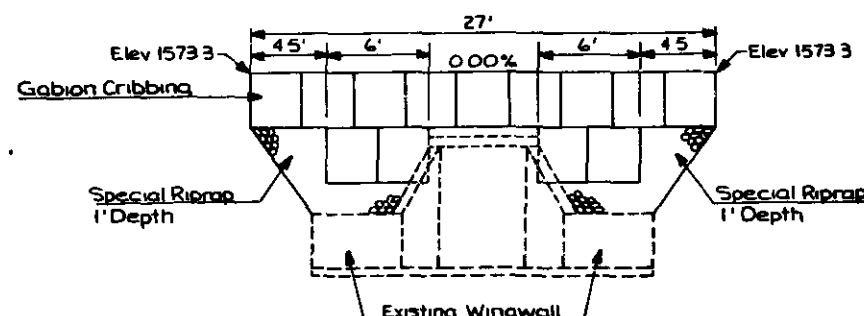
SECTION C-C



SECTION E-E



SECTION F-F



SECTION D-D

No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

DATE	REVISION	BY	APP'D	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				10	WASH	F-017(19)		
				JOB NUMBER				
				87E026				
				CONTRACT NO.				
				3263				

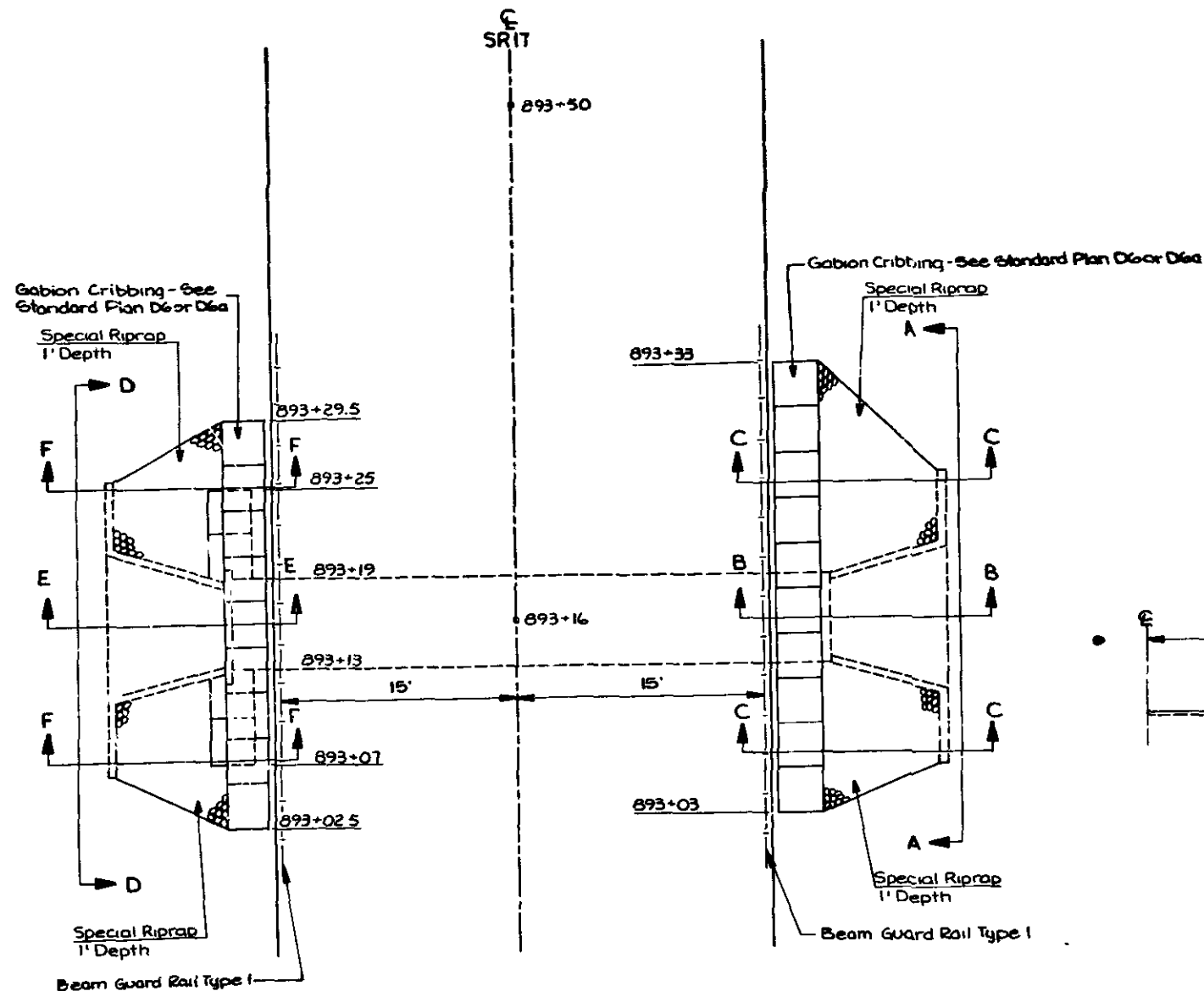


Washington State
Department of Transportation

SR 17 AND SR 173
WEST FOSTER CREEK BRIDGE TO
EAST FOSTER CREEK

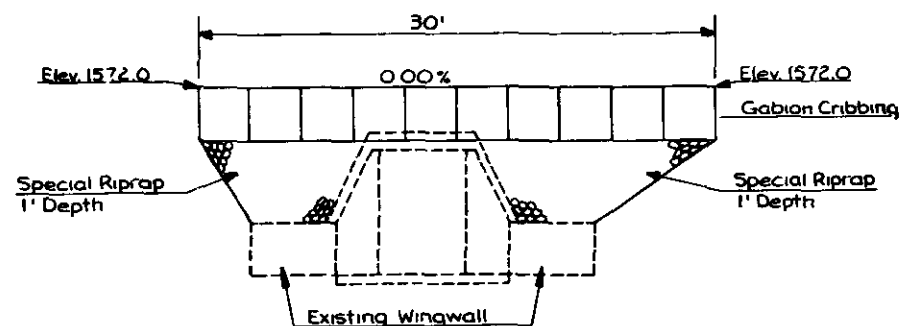
GABION RETAINING WALL

SHEET
32
OF
32
SHEETS

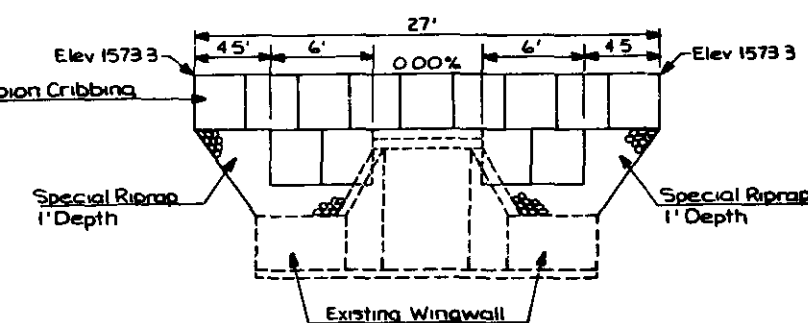


GABION PLACEMENT DETAIL

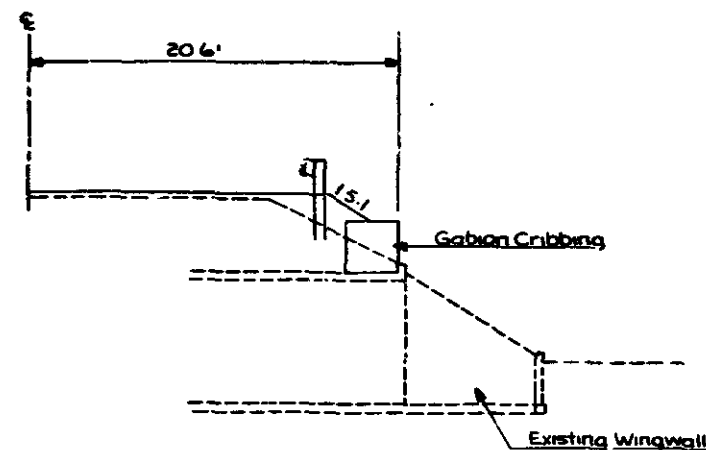
893+16 LT & RT
See Special Provisions: Gabions, Construction Fabric, Beam Guard Rail Type I, Special Riprap



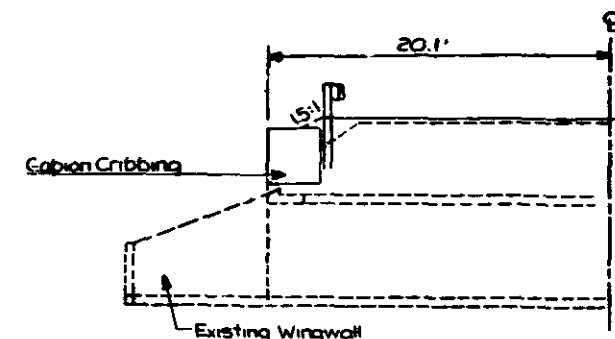
SECTION A-A



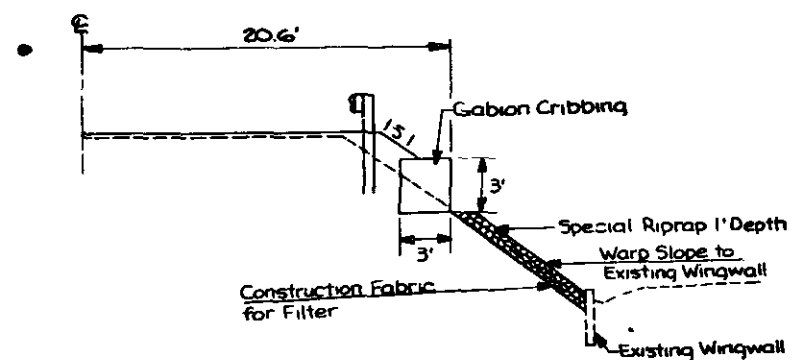
SECTION D-D



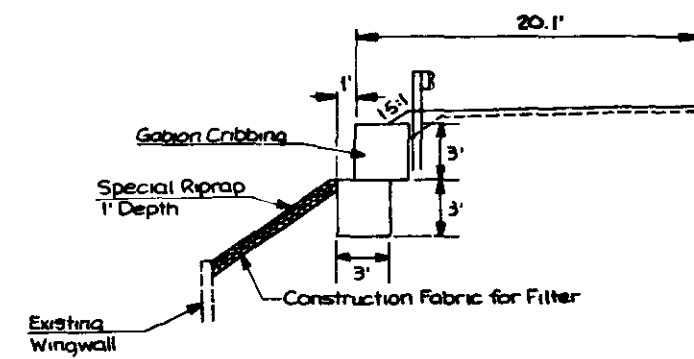
SECTION B-B



SECTION E-E



SECTION C-C



SECTION F-F

No Change
FOR "AS CONSTRUCTED
PLANS" ONLY

DATE	REVISION	BY	APPD	REGION	STATE	FED. AID PROJ. NO.	SHEET	TOTAL
				10	WASH	F-017(19)		
						JOB NUMBER		
						87E026		
						CONTRACT NO.		
						3263		