

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

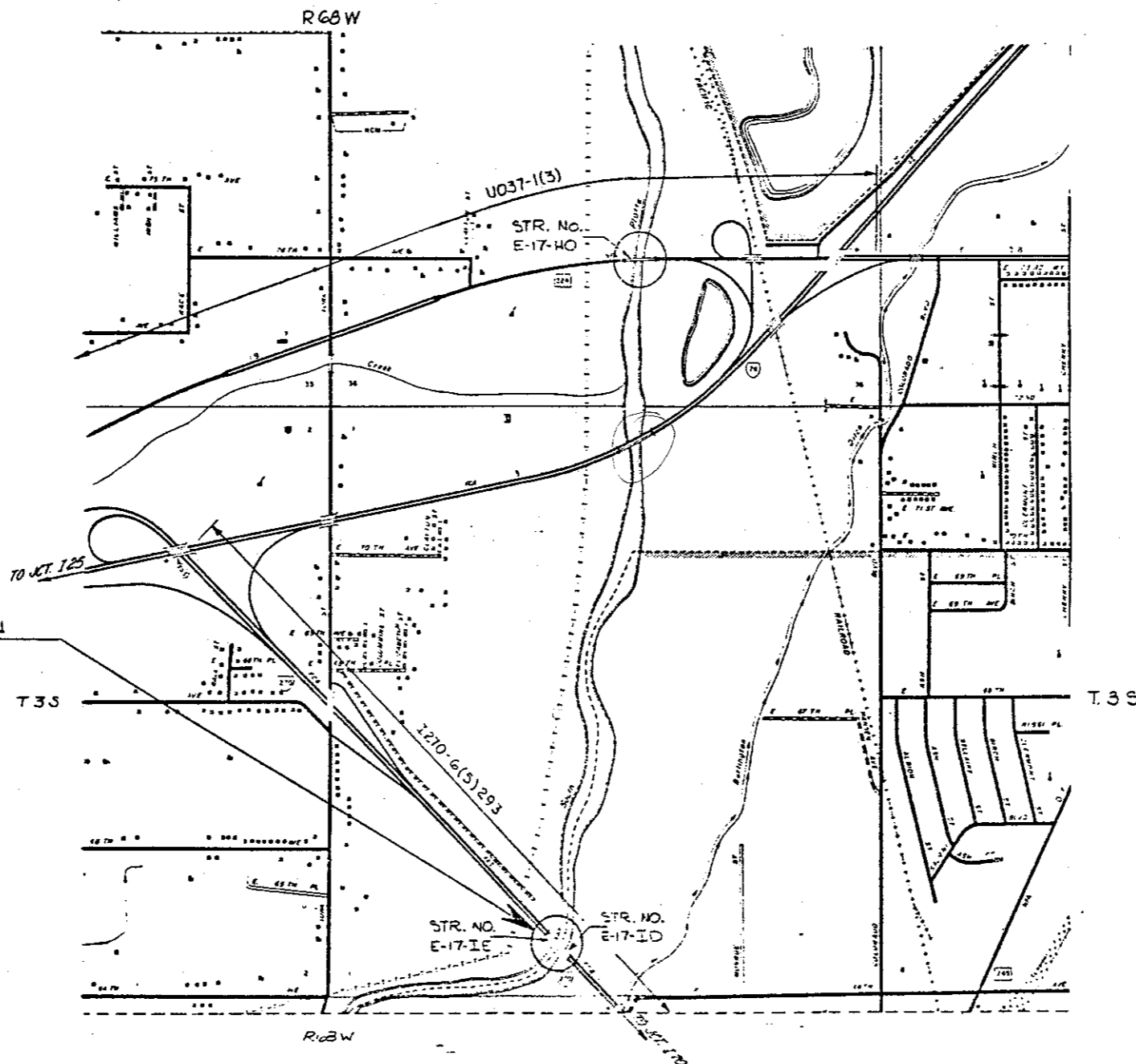
FEDERAL AID DIVISION PROJECT NO SHEET NO
COLORADO C12-0270-04 1

AS CONSTRUCTED
NO REVISIONS REVISED 4/14/83 VOID

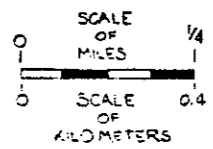
FINAL PLAN AND PROFILE OF ~~PROPOSED~~ COLORADO PROJECT NO. C12-0270-04 STATE HIGHWAY NO. 270 ADAMS COUNTY

INDEX OF SHEETS

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- Title Page and Sketch Map.
 - Standard Plans List.
 - Summary of Approximate Quantities.
 - Plan and Profile of Structures E-17-ID & E-17-IE, General Notes and Summary of Earthwork.
 - Exposed Piling Protection for Structures E-17-ID and E-17-IE.
 - Excavation and Backfill for Structures (Bridge).
 - Plan and Typical Section of Bike Path.
 - Profile of Bike Path.



C12-0270-04 PROJECT LOCATION
MILE POST 0.962



S.D.M.

To: Dick Bovee
From Doug

AS CONSTRUCTED INFORMATION

CONTRACTOR WILLIAM MCKRAN CONST. INC.
 RESIDENT ENGINEER E.B. WARREN
 PROJECT ENGINEER M.A. BINDEL
 PROJECT STARTED MARCH 2, 1983
 PROJECT COMPLETED SEPTEMBER 14, 1983

AS CONSTRUCTED PLANS APPROVED [Signature]
 TITLE Chief Eng. DATE 1/15/83

Revisions		

DIVISION OF HIGHWAYS

APPROVED [Signature] 1-5-83
 Asst. CHIEF ENGINEER DATE

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THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

DEPARTMENT OF HIGHWAYS
 STATE OF COLORADO
 DIVISION OF HIGHWAYS

STANDARD PLANS LIST

M & S STANDARDS - JANUARY, 1982

FINAL SUMMARY OF APPROXIMATE QUANTITIES

AS CONSTRUCTED		FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED <u>9/14/83</u>	VOID	VIII	COLORADO	012-0270-04	3

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PLAN STR. E 17-ID	AS CONSTRUCTED STR. E 17-ID	PLAN STR. E 17-IE	AS CONSTRUCTED STR. E 17-IE	ADAMS CO. BIKE PATH	AS CONST. ADAMS CO. BIKE PATH	PROJECT TOTALS PLAN	PROJECT TOTAL AS CONSTRUCTED	DIFFERENCE +/-	PERCENT OF PLAN
BOOK	PAGE	SHEET													
(1)			201	Clearing and Grubbing	Lump Sum	0.25	0.25	0.25	0.25	0.50	0.50	1	1	0	100
(2)			202	Removal of Structure	Each					1	1	1	1	0	100
(3)			203	Embankment Material (Complete in place)	Cu. Yd.					1316	908	1316	908	-408	69
(4)			203	Dozing	Hour	20	8	20	8			40	16	-24	40
(5)			206	Structure Excavation	Cu. Yd.	410	205	410	102			820	307	-513	37
(6)			212	Seeding (Native) DELETED by CMO #2702	Lb. Acre	4.5	0	4.5	0			9	0	-9	0
(7)			212	Fertilizer (Available N) DELETED by CMO #2702	Lb.	5.5	0	5.5	0			11	0	-11	0
(8)			212	Fertilizer (Available P) DELETED by CMO #2702	Lb.	14	0	14	0			28	0	-28	0
(9)			212	Soil Preparation (Native) DELETED by CMO #2702	Acre	0.12	0	0.12	0			0.24	0	-0.24	0
(10)			213	Mulching DELETED by CMO #2702	Ton	0.24	0	0.24	0			0.48	0	-0.48	0
(11)			506	Riprap	Cu. Yd.	257	214.5	257	214.5	515	429	1029	858	-171	83
(12)			506	Plastic Filter Cloth	Sq. Yd.	426	363	426	363	853	726	1705	1452	-253	85
(13)			509	Structural Steel	Lb.	1990	1275.5	1990	1275.5			3980	2551	-1429	64
(14)			601	Concrete Class A (Bridge) DELETED by CMO #2702	Cu. Yd.	187	0	187	0			374	0	-374	0
(15)			602	Reinforcing Steel DELETED by CMO #2702	Lb.	1925	0	1925	0			3850	0	-3850	0
(16)			603	54 Inch Equivalent Corrugated Steel Pipe Arch	Lin. Ft.					28	28	28	28	0	100
(17)			614	Concrete Barrier (Temporary)	Lin. Ft.	110	110	110	110			220	220	0	100
			626	Mobilization	Lump Sum	0.4	0.4	0.4	0.4	0.2	0.2	1	1	0	100
FORCE ACCOUNT															
			F/A01	MINOR CONTRACT REVISIONS	F.A.	0.4	0	0.4	0	0.2	0	1	0	-1	0

GENERAL NOTES

Dike shall be constructed to repair pier #2. After completion of work on pier #2 the dike shall be removed and placed around pier #3 for completion of its work. It is estimated that 220 lin. ft. of Concrete Barrier (Temporary) will be required to construct dike. Moving guard rail from one side to the other will not be paid for separately but shall be included in the length measured for one side.

It is estimated that 40 hours of dozing with a crawler type tractor in the 250 to 350 horse power range will be required to construct & remove embankment against the Concrete Barrier (Temp) and backfill above riprap footing.

It is estimated that 1029 cubic yards of Riprap will be required for this project.

Type of compaction for this project will be 95% of AASHTO T-99

Seeding (Native), Soil Preparation (Native), Fertilizing and Mulching for approximately 0.24 Acres will be required on all disturbed areas as directed by the Engineer. The following types and rates shall be used:

Native Seeding Deleted by CMO # 2702

COMMON NAME	BOTANICAL NAME	LBS. PLS/ACRE
Western Wheatgrass (Barton)	Agropyron Smithii	10
Buffalo Grass (Treated)	Buchloe Dactyloides	14
Fairway Wheatgrass	Agropyron Cristatum	3
Sideoats Grama	Bouteloua Curtipendula	4
White Clover	Trifolium Repens	1
Sand Bluestem	Andropogon Hallii	5
Total Pounds Pure Live Seed (PLS) Per Acre =		37

Mulching Material Deleted by CMO # 2702
2 Tons per Acre, Native Hay or Straw, Mechanically Crimped into the Soil.

Fertilizer Requirements Deleted by CMO # 2702

COMMERCIAL FERTILIZER	Available Nitrogen		Available Phosphorus		TOTAL LBS/ACRE
	%	Lbs/Acre	%	Lbs/Acre	
18-46-0	18	45	46	115	250

Project Totals Deleted by CMO # 2702

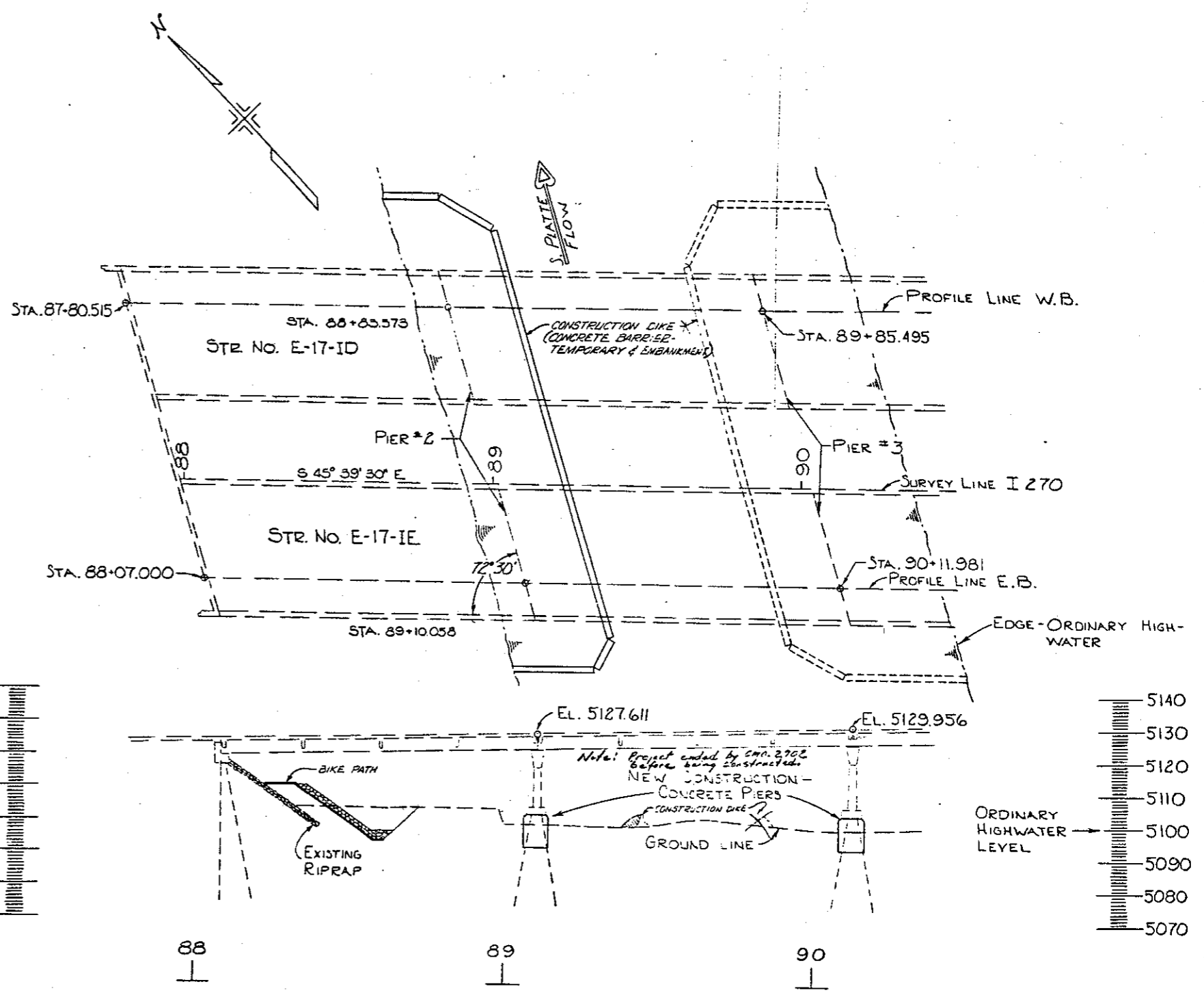
Seeding (Native)	9 Lbs.	Soil Preparation (Native)	0.24 Acres
Fertilizer (Avail. N)	11 Lbs.	Mulching	0.48 Tons
Fertilizer (Avail. P)	28 Lbs.		

FINAL SUMMARY OF EARTHWORK

EMBANKMENT (Complete in place)	908	ids.
Bike Path (from Cross Sections)	1516	
EXCAVATION	1516	Cu. Yds.
Unclassified		
EMBANKMENT NET	1316	Cu. Yds.
Bike Path (from Cross Sections)		
EMBANKMENT x 1.2 TOP (1)	1448	Cu. Yds.
Bike Path (from Cross Sections)		
Exc. Excavation	68	Cu. Yds.
Total	1516	Cu. Yds.
NETTING	33	M Gal.

▲ For information only
 ⌀ To be disposed of on site as directed by the Engineer

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	12-0270-04	4	3
AS CONSTRUCTED				
NO REVISIONS		REVISED	9/14/83	VOID



PLAN AND PROFILE OF STRUCTURES E-17-ID AND E-17-IE
 SCALE: 1" = 20' HORIZ.
 1" = 20' VERT.
 HYDRAULIC INFORMATION
 Q₁₀₀ = 37,600 cfs
 HW = 5018

STRUCTURES E-17-ID, IE

STRUCTURE E-17-HO

AS CONSTRUCTED
NO REVISIONS REVISED 4/14/83 VOID

FEDERAL ROAD REGION NO	DIVISION	PROJECT NO.	SHEET NO	TOTAL SHEETS
VIII	COLORADO	C-2-C-270-04	5	8

REVISIONS	

- GENERAL NOTES:**
- ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE DIVISION OF HIGHWAYS, STATE OF COLORADO, APPLICABLE TO THE PROJECT.
 - WORK WILL BE ALLOWED ONLY ON ONE PIER PER BRIDGE AT A TIME.
 - THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - STRUCTURAL STEEL SHALL BE AASHTO M-183 (A-36).
 - SPACING AND/OR ORIENTATION OF REINFORCING BARS MAY BE SLIGHTLY ADJUSTED AS REQUIRED IN ORDER TO AVOID INTERFERENCE WITH THE EXISTING PILING.
 - MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3 INCHES.
 - E.F. = EACH FACE.
 - CONSTRUCTION JOINTS ARE OPTIONAL SUBJECT TO APPROVAL BY THE ENGINEER EXCEPT, THE FINAL THREE (3) FEET OF CONCRETE SHALL NOT BE PLACED UNTIL THE PREVIOUS POURS HAVE BEEN ALLOWED TO SET FOR A MINIMUM OF TWENTY-FOUR (24) HOURS (TO MINIMIZE SHRINKAGE).
 - THE CHANNEL BRACES FOR PILES SHOWN ON THE DRAWING SHALL BE WELDED INTO PLACE IMMEDIATELY WHEN THE EXCAVATION REACHES THE PLANNED CHANNEL LOCATIONS AND BEFORE EXCAVATION IS ALLOWED TO CONTINUE.
 - THE CONTRACTOR SHALL MONITOR THE PIERS BEING WORKED ON FOR MOVEMENT DURING CONSTRUCTION. IF MOVEMENT IS DETECTED, HE SHALL TAKE IMMEDIATE ACTION TO STOP THE MOVEMENT AND THEN CONTACT THE ENGINEER FOR FURTHER DIRECTIONS.
 - FOLLOWING EXCAVATION AND PRIOR TO PLACING CONCRETE, THE EXPOSED PILING SHALL BE CLEANED FREE OF OIL, DIRT, LANTANE, LOOSE RUST SCALE, ORGANIC MATTER, AND OTHER COATINGS OF ANY CHARACTER THAT WOULD PROMOTE FURTHER CORROSION AFTER CONCRETE HAS BEEN PLACED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 601, CONCRETE CLASS A.
 - THE OBVIOUS SPALL AT PIER NUMBER 2 OF STRUCTURE E-17-HO SHALL BE CLEANED OF LOOSE CONCRETE. THE REBAR SHALL BE CLEANED TO THE REQUIREMENTS SET FORTH IN NOTE 11 ABOVE FOR CLEANING OF EXPOSED PILING, AND THE SPALL SHALL BE REPAIRED USING AN EPOXY GROUT BONDED TO THE EXISTING CONCRETE WITH AN APPROPRIATE BONDING AGENT. IN ADDITION, THE ENGINEER SHALL INVESTIGATE AND IDENTIFY OTHER AREAS THAT SHOW EVIDENCES OF SPALLING AND THE CONTRACTOR SHALL REPAIR THESE AREAS IN THE SAME MANNER AS SPECIFIED IN PRECEDING PORTIONS OF THIS NOTE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN BID PRICE OF ITEM 601, CONCRETE CLASS A.

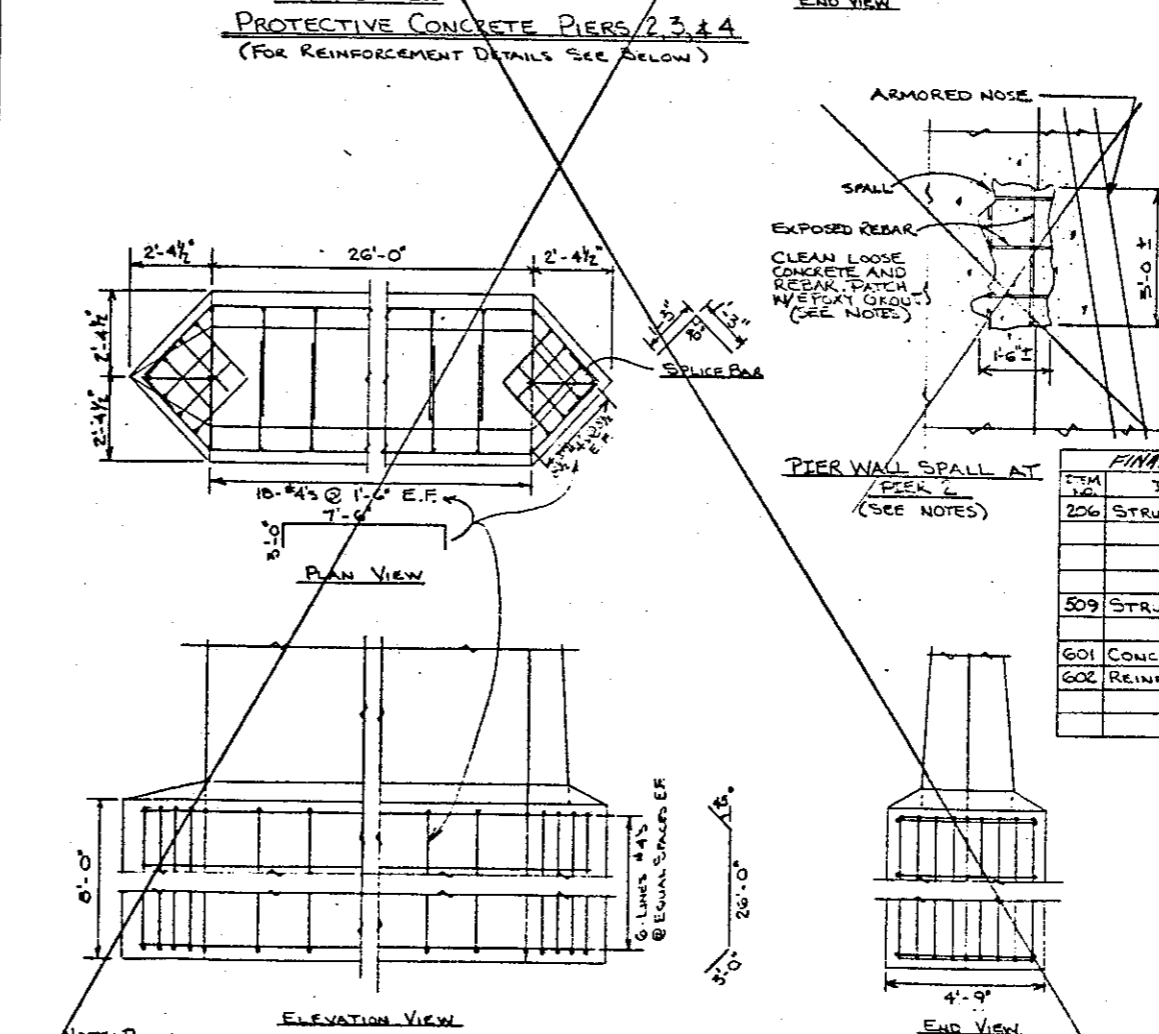
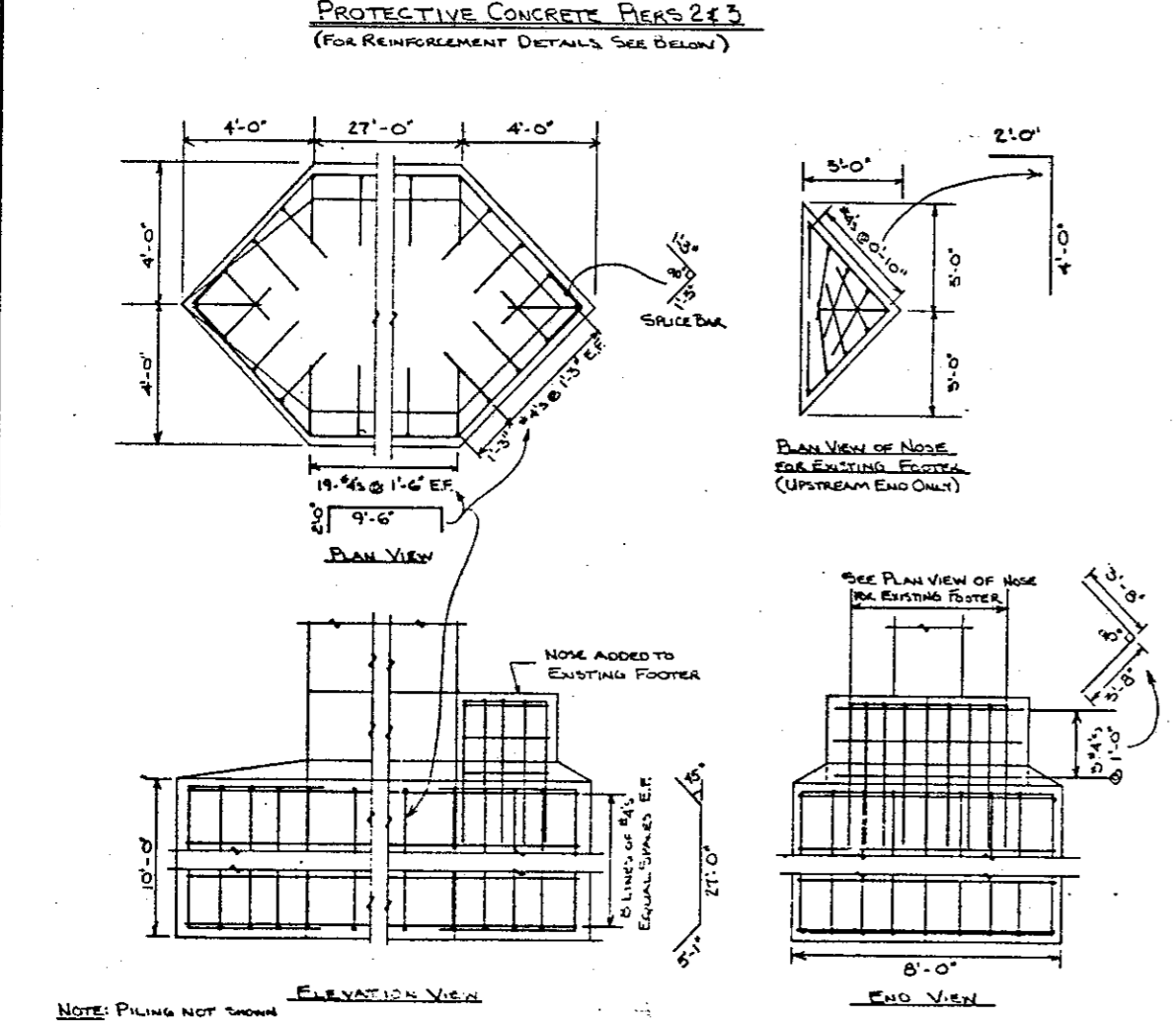
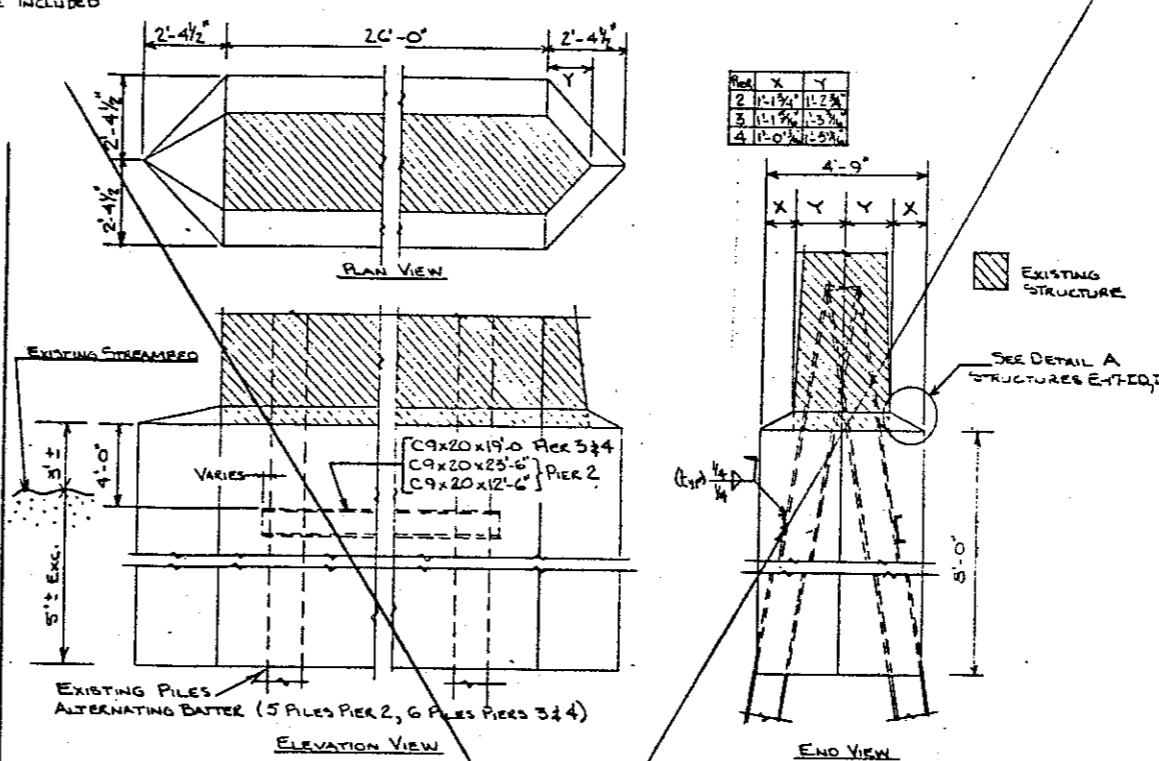
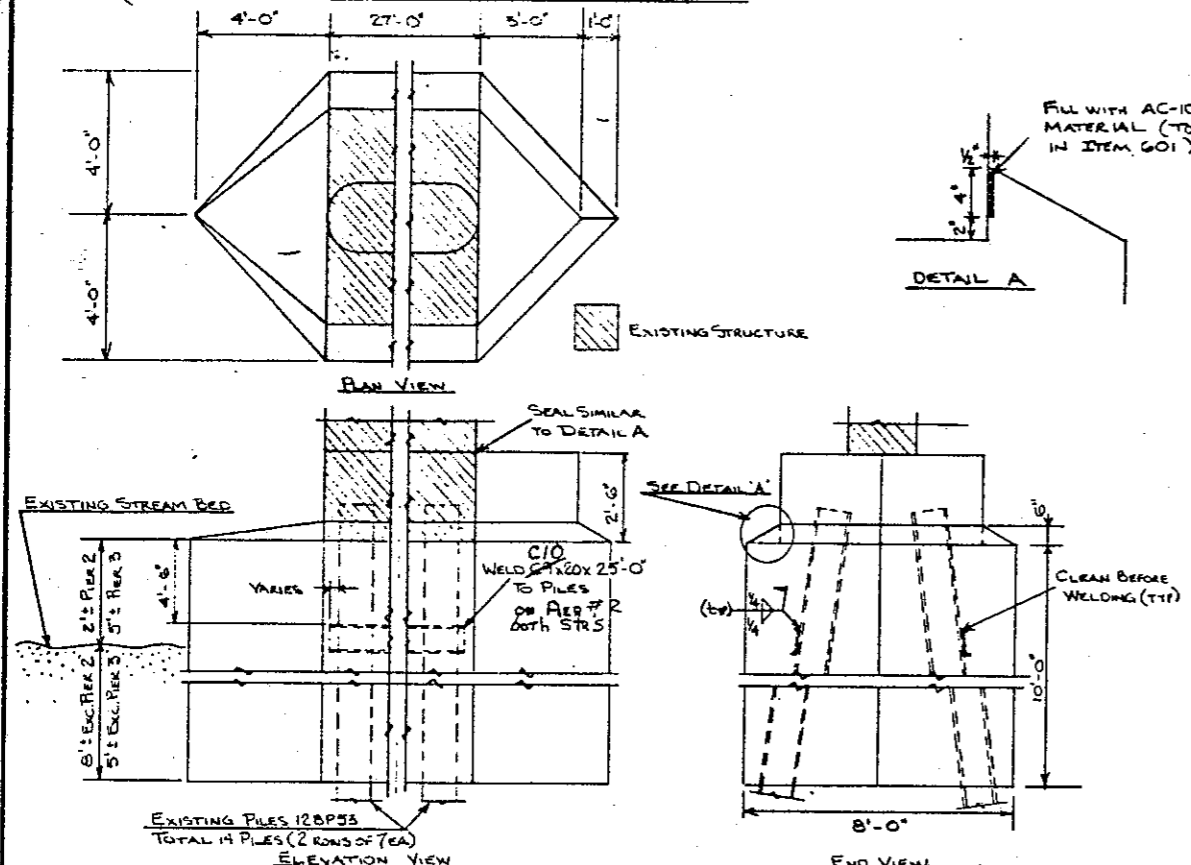
DESIGN DATA:
CURRENT AASHTO SPECIFICATIONS.
REINFORCED CONCRETE:
CLASS A CONCRETE: $f_c = 1,200$ psi, $n = 10$
REINFORCING STEEL: #4 BARS $f_s = 24,000$ psi
STRUCTURAL STEEL: AASHTO M-183 (ASTM A-36) $f_s = 20,000$ psi

FINAL SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	E-T-D	I-E	IE	PROJECT TOTALS
206	STRUCTURE EXCAVATION	CYD.	410	410	307	820
509	STRUCTURAL STEEL	LB	1990	1990	2360	3,980
601	CONCRETE CLASS A (BRIDGE)	CYD.	187	187	0	374
602	REINFORCING STEEL	LB	1925	1925	0	3,850

DIVISION OF HIGHWAYS
EXPOSED PILING PROTECTION
STRUCTURES E-17-ID, IE ON SH 270

Designer: W. MYSZKOWSKI
Checker: W. MYSZKOWSKI
Drawing Number: B 1 of 2



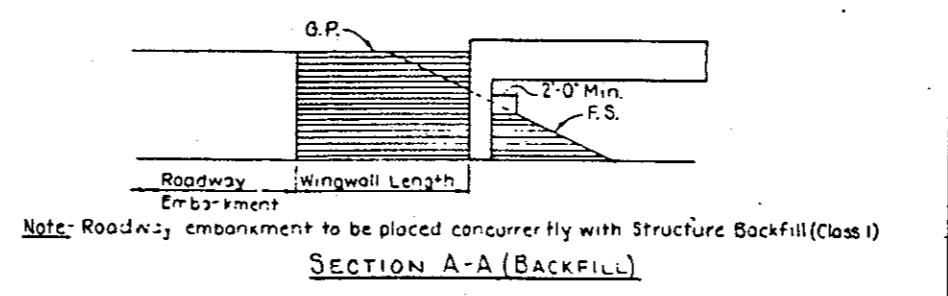
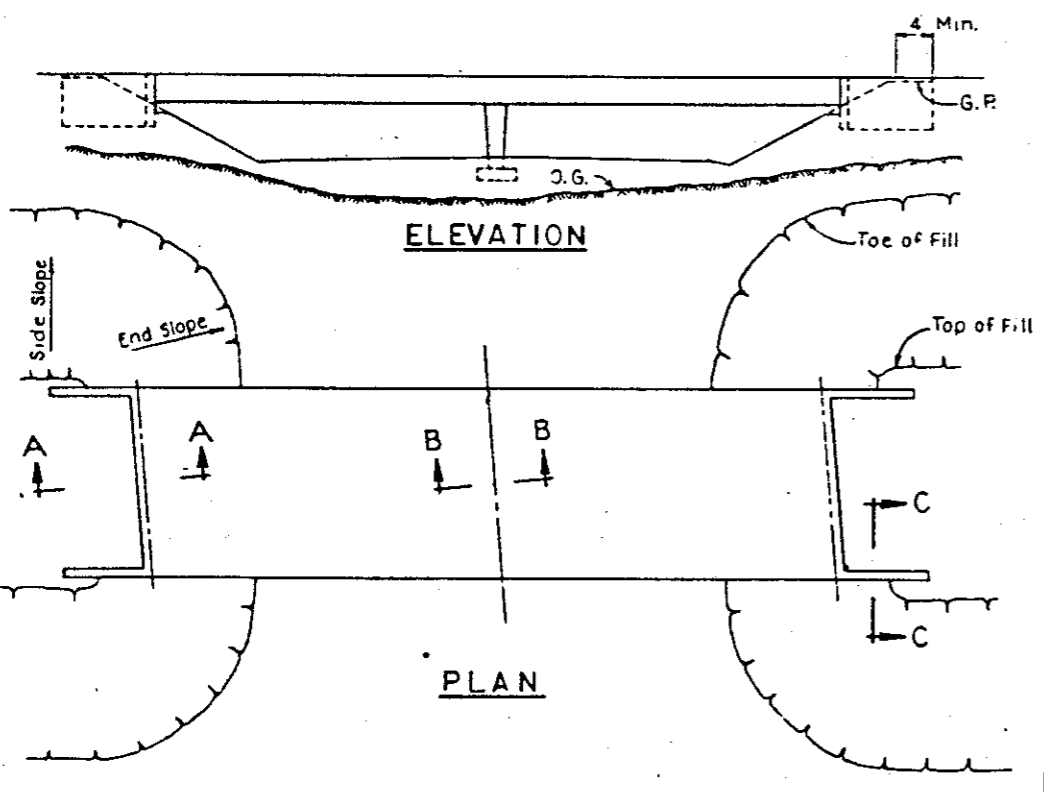
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WMA	2/21	WMA

AS CONSTRUCTED		
NO REVISIONS	9/4/83	REVISED
		VOID

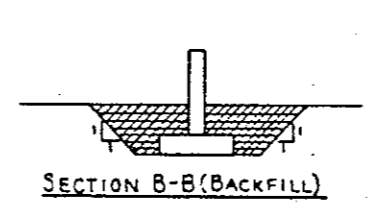
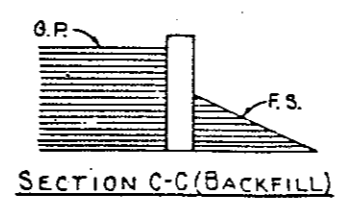
FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	2-2870-04	6	6

SPECIAL THIS PROJECT

REVISIONS	

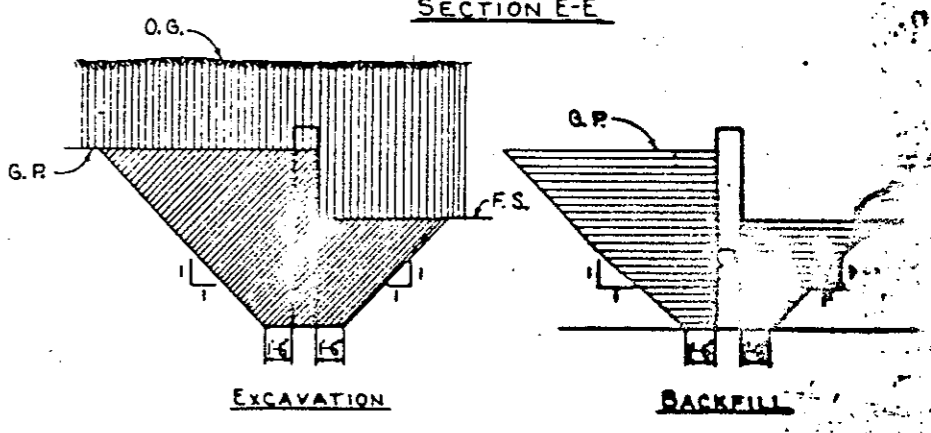
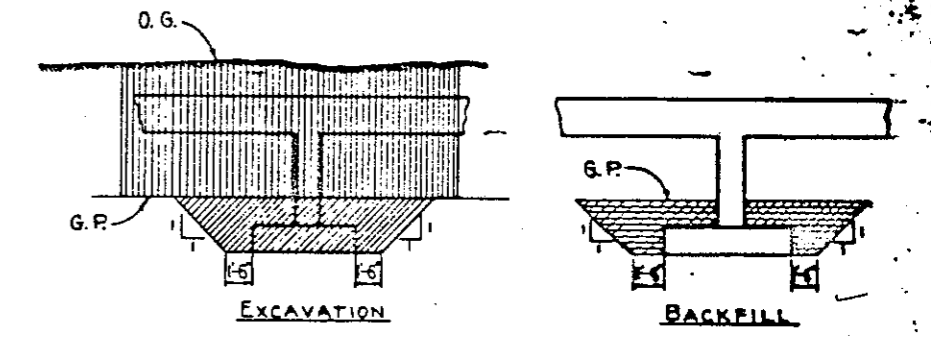
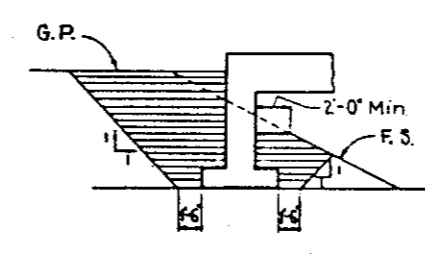
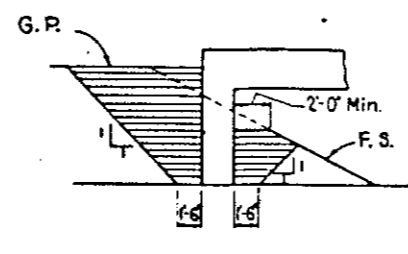
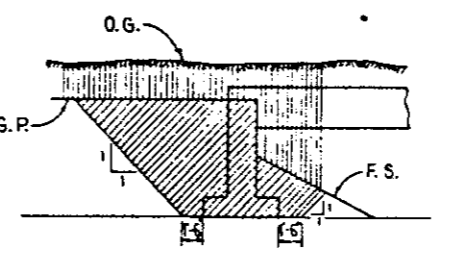
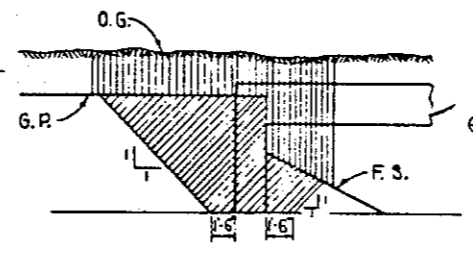
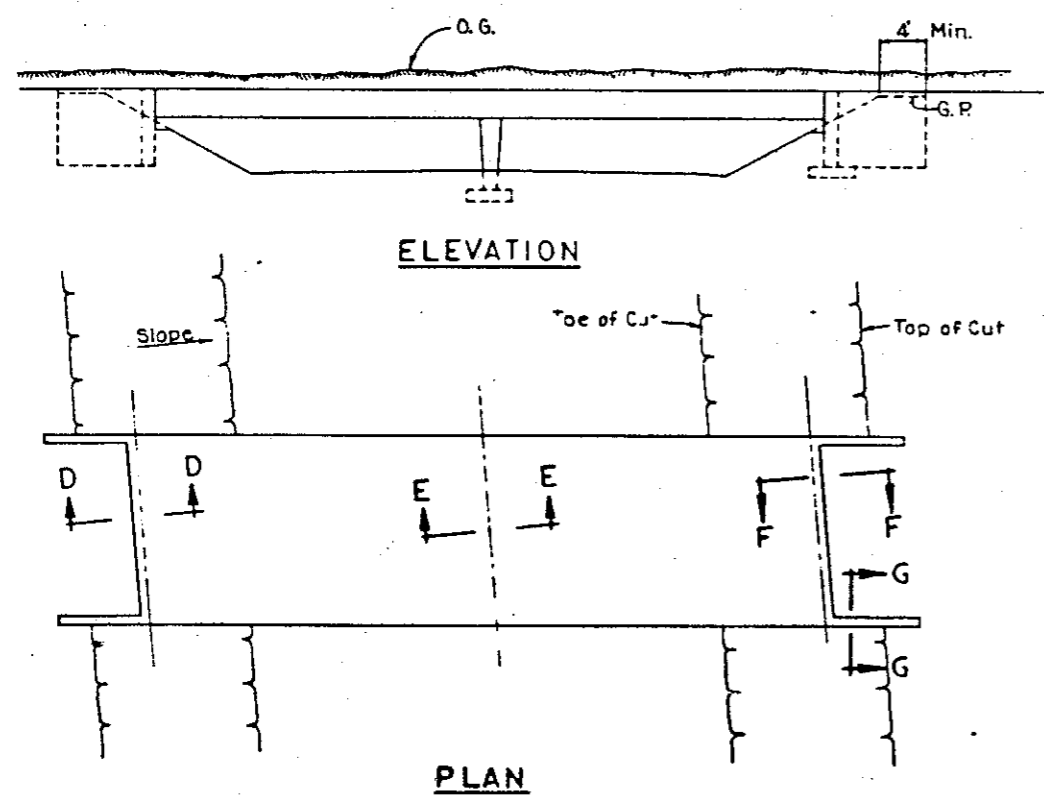


Note: Roadway embankment to be placed concurrently with Structure Backfill (Class I)



ABBREVIATIONS		LEGEND	
O.G.	Original Ground		Roadway Excavation
G.P.	Planned Grading Plane		Structure Excavation
F.S.	Planned Finished Surface		Structure Backfill (Class I)
			Structure Backfill (Class II)

IN FILL

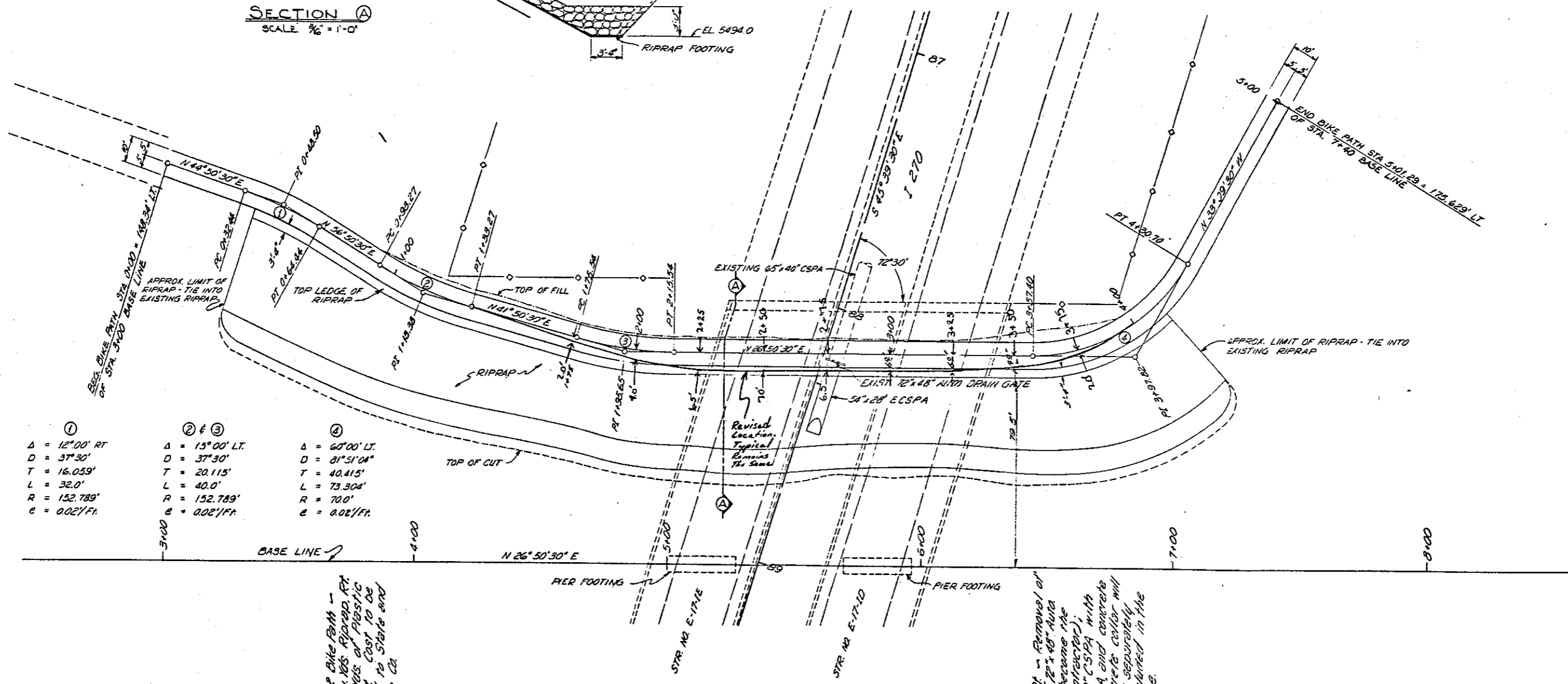
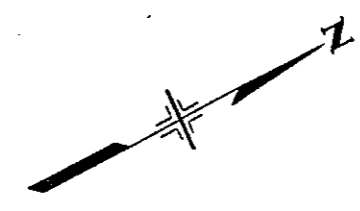
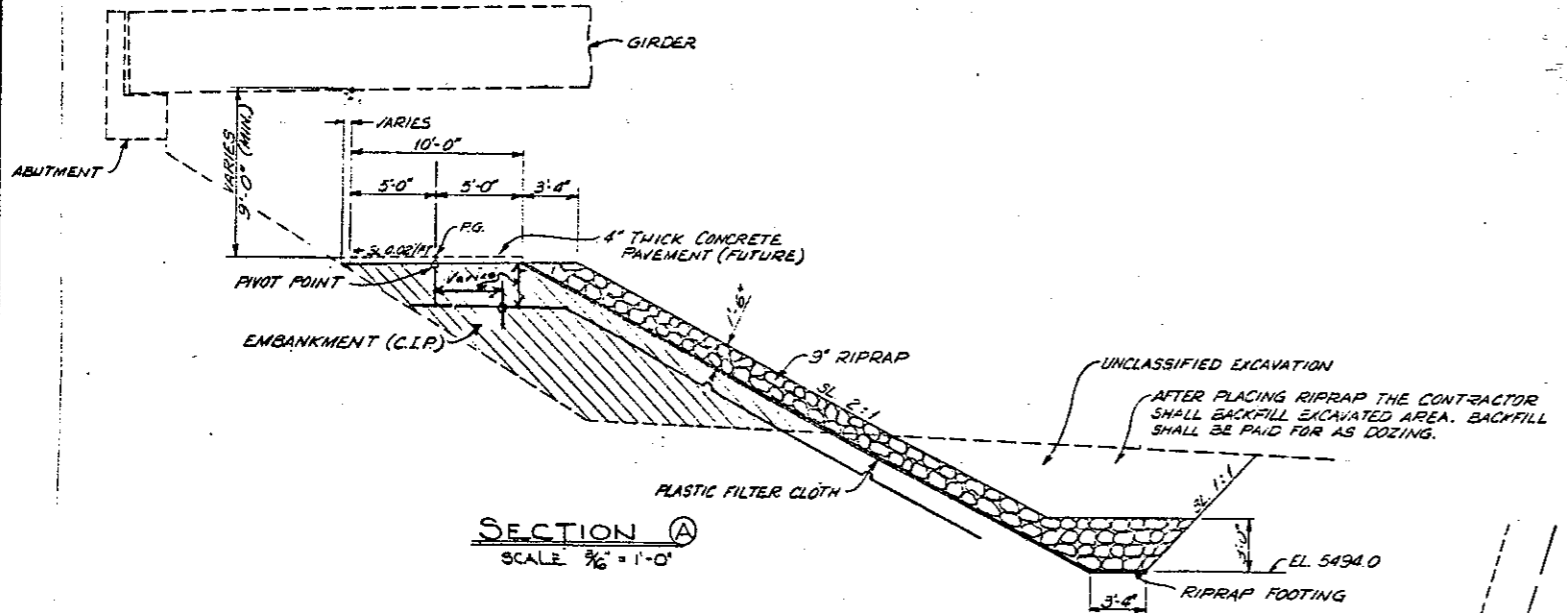


IN CUT

DIVISION OF HIGHWAY
EXCAVATION AND BACKFILL FOR STRUCTURES (BRIDGE)

Designer: J. Peck
 Checker: S. Einspahr

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	013-0275-54	7	8
AS CONSTRUCTED				
NO REVISIONS		REVISED	9/14/83	VOID



- ①
Δ = 12° 00' RT
D = 37° 30'
T = 16.059'
L = 32.0'
R = 152.789'
e = 0.02/FT.
- ② & ③
Δ = 15° 00' LT.
D = 37° 30'
T = 20.115'
L = 40.0'
R = 152.789'
e = 0.02/FT.
- ④
Δ = 60° 00' LT.
D = 81° 51' 04"
T = 40.415'
L = 73.304'
R = 70.0'
e = 0.02/FT.

PLAN OF BIKE PATH
SCALE 1" = 20'

STA. 0+38 TO STA. 4+12 Bike Path -
 Riprap 1029 cu. yds. Riprap, RT
 and 1705 cu. yds. of Plastic
 Filter Cloth, RT Cost to be
 covered 50% to State and
 50% to Adams Co.

STA. 2+28 Bike Path, RT - Removal of
 Structures, RT (72'x48' And
 Drain Gate to become the
 property of contractor).
 Extend 65'x40' CSQA with
 54'x28' ECSPA and concrete
 collar, RT. Concrete collar will
 not be paid for separately
 but shall be included in the
 cost of the pipe.

AS CONSTRUCTED
 NO REVISIONS REVISED 2/14/83 VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
XIII	CO. GRADO	C-12-C-270-04	B	8

Bike Path Profile

DATE: _____ BY: _____

FINAL SURVEY PLOTTED: _____

APPROVED: _____

NO. _____

DATE: _____ BY: _____

ORIGINAL SURVEY PLOTTED: _____

APPROVED: _____

NO. _____

