

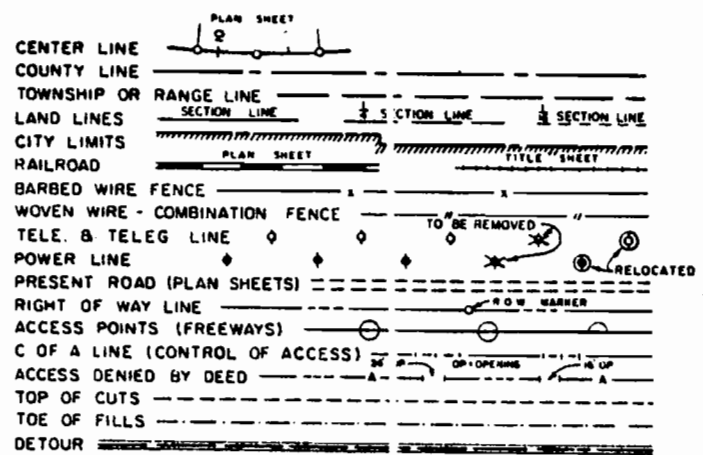
Drafting Form

STATE DEPARTMENT OF HIGHWAYS AS CONSTRUCTED DIVISION OF HIGHWAYS - STATE OF COLORADO

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
222	COLORADO	EHS-T 7500 (2)	1

In Grand Junction

CONVENTIONAL SIGNS



PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. EHS-T 7500(2)

MESA COUNTY

SCALE OF ORIGINAL DRAWINGS
ON PLAN, 1 IN = 25 FT
ON PROFILE, 1 IN = 25 FT HORIZONTAL, 1 IN = 5 FT VERTICAL
PROFILE GRAD AS SHOWN ON LINE SHEETS
GROSS LENGTH OF PROJECT ON RAMP 781.6 ft. = 0.148 MILES
4th AVENUE 544.1 ft. = 0.103 MILES
NET LENGTH OF PROJECT OFF RAMP 2,137.0 ft. = 0.405 MILES
TOTAL 3,462.7 ft. = 0.656 MILES

* FOR INFORMATION ONLY NO CENTER LENGTH INVOLVED

SHEET NO

- 1 TITLE PAGE AND SKETCH MAP
- 2 TYPICAL SECTIONS
- 3 GENERAL NOTES, TABULATION OF CURB CUTS AND SUMMARY OF EARTHWORK
- 4 - 5 SUMMARY OF APPROXIMATE QUANTITIES
- 6 STRUCTURE QUANTITIES
- 7 TABULATION OF CURB AND GUTTER
- 8 BASE COURSE AND SURFACE COURSE PLAN
- 9 ENERGY ABSORBER
- 10 PIT SKETCH (STOCKPILE LOCATION)
- 11 - 17 ALIGNMENT PLAN AND PROFILE
- 18 - 23 CROSS SECTIONS

- M-203-B APPROACH ROADS, FLARING, CUT SLOPE TREATMENT.
- M-203-SC BRIDGE & CREST WIDENING
- M-206-AA SUPERELEVATION & WIDENING OF CURVES - CROWNED HIGHWAYS
- M-412-AA EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)
- M-603-RC CONCRETE PAVEMENT JOINTS
- M-604-AA REINFORCED CONCRETE PIPE
- M-604-AA CONCRETE INLETS - TYPES 3 AND 3 DOUBLE
- M-604-AA CONCRETE INLET, TYPE 13
- M-607-A WIRE FENCES AND GATES (2 SHEETS)
- M-609-A CURBS AND GUTTERS
- M-614-TB TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION (3 SHEETS)
- S-614-40A STANDARD CONSTRUCTION IDENTIFICATION SIGNS (2 SHEETS)
- S-614-52A BARRICADES AND VERTICAL PANEL CHANNELIZING DEVICES

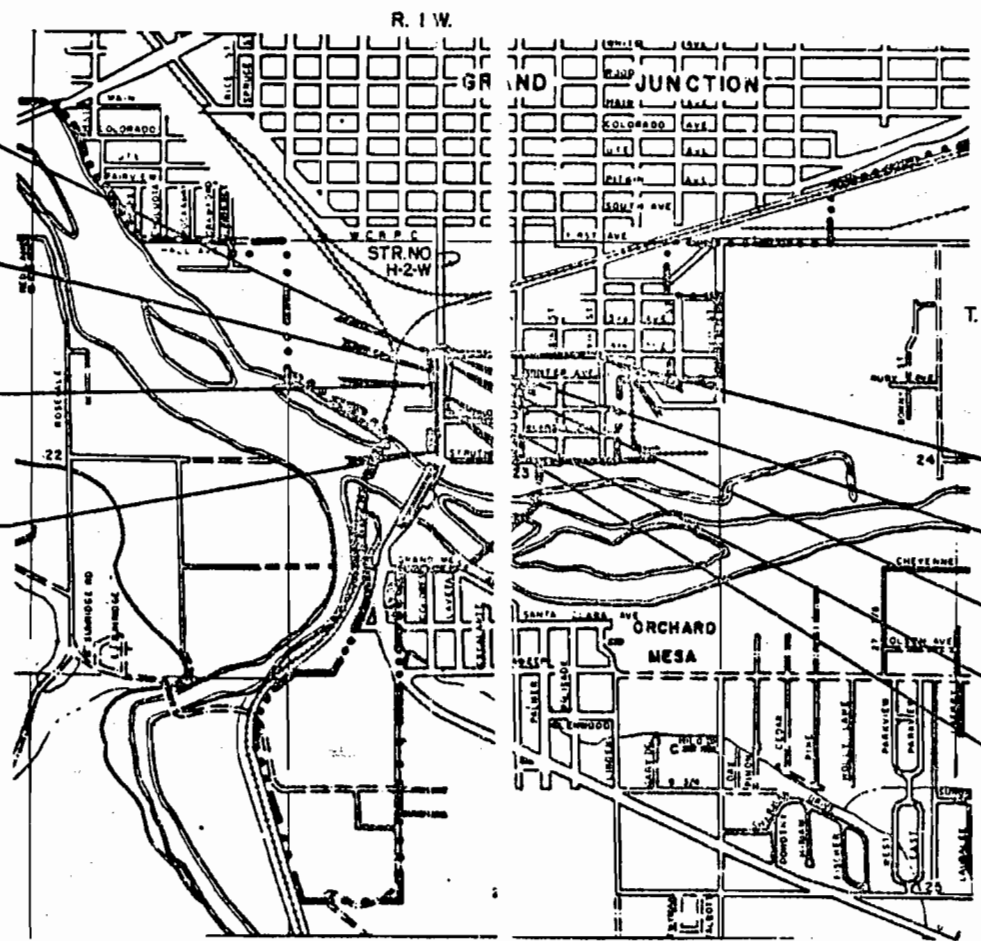
Contractor - Kenney Construction Co. Inc.
Res. Engr - Douglas Romes
Proj. Engr - Rex Blair
Date Completed - 4/11/73

STA. 116+33 BEGIN EHS-T 7500(2) 4th AVENUE
OPR. STA. 18+71.0 END EHS-T 7500(2) ON RAMP

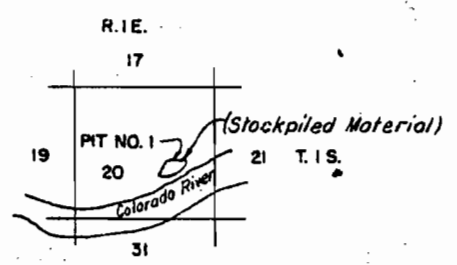
STA. 16+89 EHS-T 7500(2) ON RAMP
END NO WORK SECTION

STA. 12+51.5 EHS-T 7500(2) ON RAMP
BEGIN NO WORK SECTION

STA. 6+51.9 BEGIN EHS-T 7500(2) ON RAMP



"As Constructed No Revisions"
Sheet 2, 9, and 10



STA. 137+70.0 END EHS-T 7500(2) 4th AVENUE

STA. 10+30.8 END EHS-T 7500(2) OFF RAMP
5' OPR. STA. 119+82 ON 4th AVENUE

STA. 8+25.7 EHS-T 7500(2) OFF RAMP
END NO WORK SECTION C.O. # 04259

STA. 3+81 EHS-T 7500(2) OFF RAMP
BEGIN NO WORK SECTION C.O. # 04259

STA. 0+42 BEGIN EHS-T 7500(2)
OFF RAMP

Approved *Richard E. Brown* 6/1/73
Dist. Const. Engr

DIVISION OF HIGHWAYS
APPROVED *L. B. Brown* 6-30-73
CHIEF ENGINEER DATE

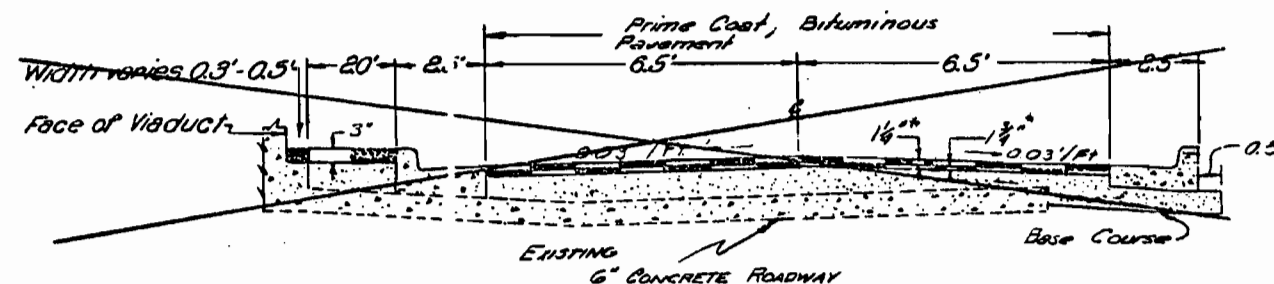
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ENGINEER

TYPICAL SECTIONS

AS CONSTRUCTED
 NO REVISIONS
 4/10/79

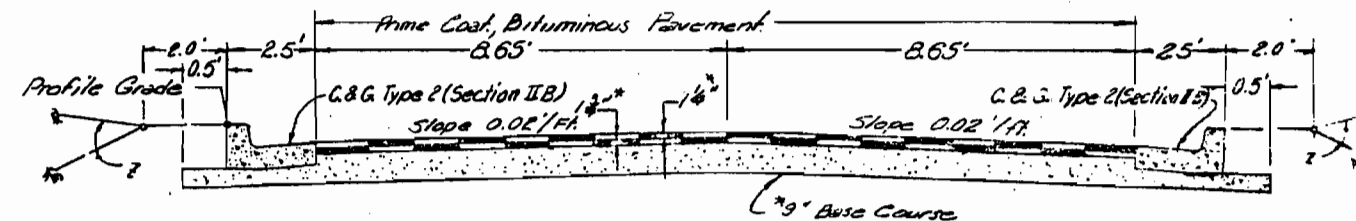
FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
XIII	COLORADO	EHS-T7500(2)	2	

SECTION C OFF RAMP STA. 3+25 to STA. 8+25.7 (NO WORK SECTION)
 STA. 8+25.7 to STA. 10+7 (TRANSITION)

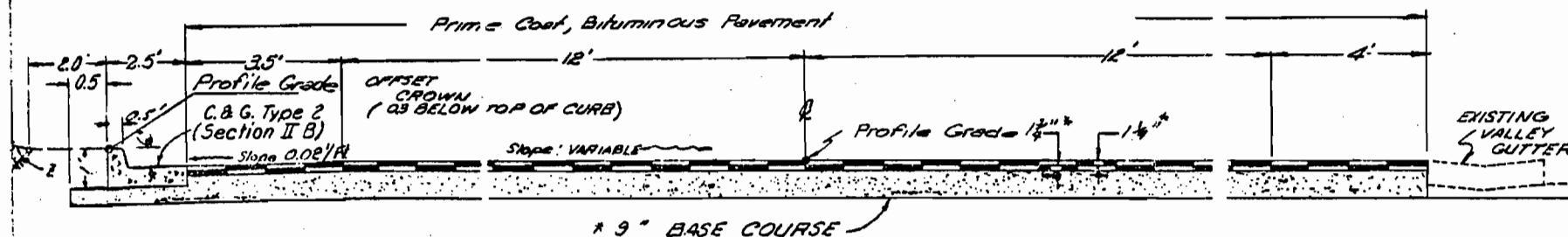


SECTION D ON RAMP

STA. 12+46 to STA. 12+51.5
 STA. 12+51.5 to STA. 16+89 (NO WORK SECTION)
 STA. 16+89 to STA. 17+69
 STA. 17+69 to STA. 18+30.5 (TRANSITION)

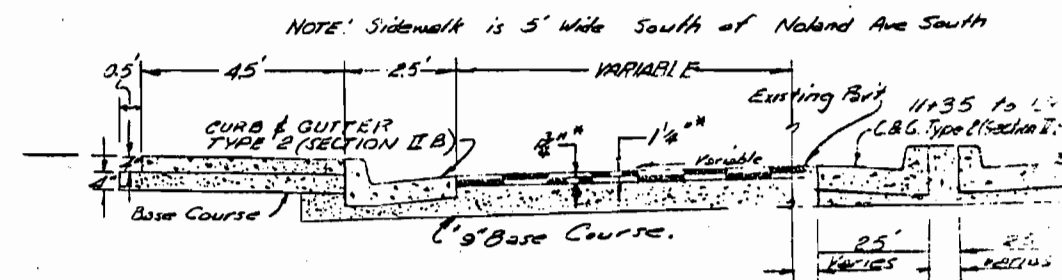


SECTION B 4th AVENUE SOUTH 7th STREET to SOUTH 9th STREET
 STA. 128+725 to STA. 136+84
 STA. 136+84 to STA. 137+70 (TRANSITION)

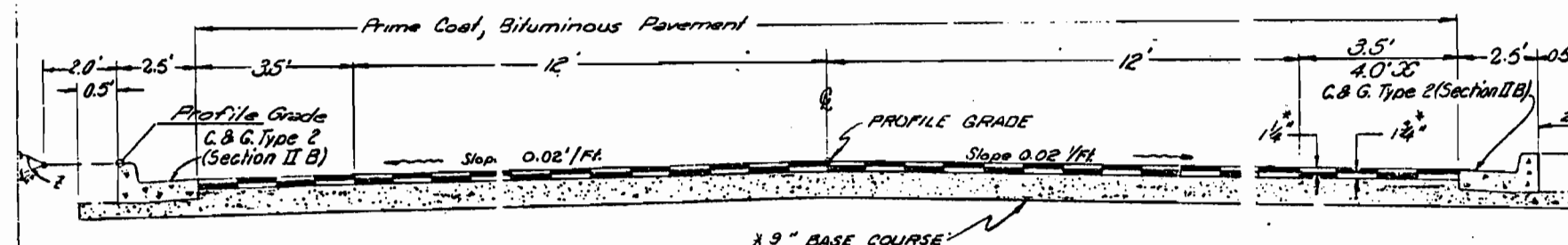


SECTION E ON RAMP

STA. 6+51.5 to STA. 12+46

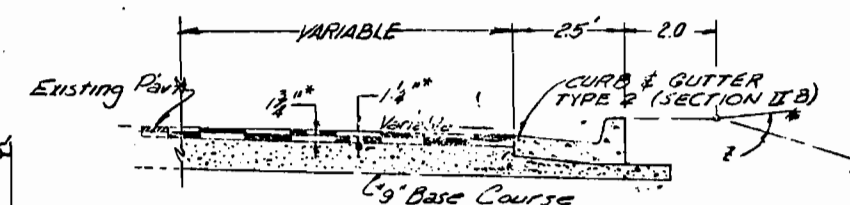


SECTION A 4th AVENUE SOUTH 5th STREET TO SOUTH 6th STREET
 STA. 116+33 to STA. 117+85.3 TRANSITION
 STA. 118+18 to STA. 120+05 TRANSITION
 STA. 120+05 to STA. 123+43



SECTION F OFF RAMP

STA. 2+30 to STA. 3+25



SECTION G 4th AVENUE (UNDER VIADUCT)
 STA. 117+85.3 to STA. 118+18

Same as Section A - except for narrowing the width of street to 30 feet from back of curb to back of curb

SECTION H 4th AVENUE

STA. 123+43 to STA. 128+72.5

Same as Section A - except Proposed use of existing (20') vertical curb & gutter south side of 4th Avenue

* Denotes Approximate thickness.

X Shld'n dimension for SECTION H

Z Slope to Suit

AS CONSTRUCTED
 REVISED DATE 4/10/79

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VII	COLORADO	545-T 7500(2)	3	

TABULATION OF CURB CUTS

STATION	SIDE	LENGTH LIN. FT.
ON RAMP		
117+17.5	Rt.	35
4 TH AVE		
119+82.5	Lt. & Rt.	35
122+49.9	Lt. & Rt.	35
123+64.5	Lt.	35
124+37.5	Lt.	35
127+01.5	Lt.	35
126+46.5	Rt.	35
131+17.5	Lt.	35
131+67.5	Lt.	35
136+02.5	Lt.	35
ON RAMP		
9+61	Lt.	20'
10+83	Lt.	35'
17+28	Lt.	28'
12+16	Lt.	18'
OFF RAMP		
1+07	Rt.	35'
1+72	Lt.	35'
3+32	Rt.	35'
4+20	Rt.	35'
4+85	Rt.	35'
7+25	Rt.	35'
4 TH AVE.		
117+56	Lt.	35'
119+80	Lt. 35' Rt. 40'	
121+25	Lt. & Rt.	35'
122+50	Lt. & Rt.	35'
123+10 ~ 124+50	Lt.	140'
125+25	Lt.	35'
126+25	Lt.	35'
126+75	Lt.	35'
129+06	Lt.	35'
130+55	Lt.	35'
132+78	Lt.	35'
133+48	Lt.	35'
135+65	Lt.	35'

SUMMARY OF EARTHWORK

* UNCLASSIFIED EXCAVATION (Haul)

Roadway (From Cross-sections)

Total 26622.0 yds.

* 142 cu yd of this material is to be used to fill behind curbs and 26622 cu yds is to be disposed of as directed by the Engineer.

B2-P29 { Roadway (x sec.) ✓ 2857 ✓
 No work sec. C.O. = 048 '6 ✓ 46 ✓
 Soft Spots + Med. 741 ✓
 Total 3,644 ✓

GENERAL NOTES

For preliminary plan quantities of Bituminous Material, the following rate of application was used:

PRIME COAT MC 70 @ 0.40 Gals. per Sq. Yd.

TACK COAT (AC-10) @ 0.10 Gals. per Sq. Yd.

Rate of application shall be as determined by the Engineer at the time of application.

Plain water shall be used as a dust palliative where required. Location shall be as ordered.

Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed.

A ski type device at least 30 feet in length shall be furnished with each bituminous paver equipped with an automatic control system.

Street approaches which require bituminous pavement shall be placed and a 2" thickness of pavement placed as follows:

Public approaches and entrances to buildings or residences shall be paved 50 ft. out from edge of shoulder or to the radius return, whichever is less.

It is estimated that 600 Hours of Flagging for controlling traffic will be required for this project.

Excess Excavation shall be wasted by the Contractor in an area using haul road suitable to the Engineer.

SUMMARY OF APPROXIMATE QUANTITIES

AS ~~CONSTRUCTED~~
REVISED DATE 4/10/73

PARTIAL ROAD SECTION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
XXX	COLORADO	EHS-T 7500(2)	4	

SHEET			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT					Non Fed. Aid Local Proj. Totals		Fed. Aid	PROJECT TOTALS	FINAL TOTALS	Diff.	%
2	299	6	202	Removal of Structure	Each								3	-	-1	67
2	299		202	Removal of Sidewalk	Sq. Yd.								220	218	-2	79
2	299		202	Removal of Gutter	Lin. Ft.								90	36	-54	40
2	299		202	Removal of Curb & Gutter (C.O. #04356 & 04259)	Lin. Ft.					337	1503		1650	1840	+190	112
2	299		202	Removal of Concrete Pavement	Sq. Yd.								110	61	-49	55
2	299		202	Removal of Fence C.O. #04256	Lin. Ft.								100	-	-100	0
2	299		202	Removal of Guard Rail Type 3	Lin. Ft.								120	154	+34	128
2	299		203	Unclassified Excavation (Haul) C.O. #04259 & 04356	Cu. Yd.					76	3568		3000	3,644	+644	121
Calc. Sheet	299		204	Haul (C.O. #04259 & 04356)	Ton Mi.					701	36,370		30,300	37,071	+6,771	122
6	299		206	Structure Excavation	Cu. Yd.								60	47	-13	78
6	299		206	Structure Backfill (Class 2)	Cu. Yd.								20	14	-6	70
7	299		209	Wetting	M. Gal.								80	185	+105	231
7	299		210	Rebuild Portion of Present Structure	Each								1	1	-	100
6	299		210	Adjust Structure	Each								1	1	-	100
6	299		210	Adjust Manhole	Each					2	7		7	9	-	129
6	299		210	Adjust Valve Box	Each								3	9	+5	267
87	299		304	Place Aggregate Base Course	Ton								5,000	4,945	-55	87
87	299		403	Hot Bituminous Pavement (Aggregate from Stockpile)	Ton	C.O. #04356 & #04259				167.8	2,916		1,700	2,583.80	+883.80	152
27	299		411	Asphalt Cement (AC-17) C.O. #04356 & 04259	Ton					8.42	146.13		110	124.55	+14.55	113
23 & 24	299		411	Liquid Asphaltic Material (MC-70)	Gal.					62	1317		3,700	1,379	-2,321	37
15	299		412	Concrete Pavement (6 Inch)	Sq. Yd.								140	68	-72	49
6	299		603	8 Inch Nonreinforced Concrete Pipe	Lin. Ft.								152	106	-46	70
21	299		604	Inlet Type 3 (5 Foot)	Each								12	6	-6	50

STRUCTURE QUANTITIES

AS CONSTRUCTED
REVISED DATE 4/18/73

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	EHS-T 2500 (2)	6

INCLA			LOCATION	UNCLASSIFIED EXCAVATION			STRUCTURE EXCAVATION	STRUCTURE BACKFILL	REMOVAL OF STRUCTURE	AGGREGATE BASE COURSE SURFACING (CLASS)	HOT BITUMINOUS PAVEMENT (GRADE)	CONCRETE	REINFORCING STEEL	CONC. INLET TYPE 3 (5 FOOT)	CONC. CULVERT PIPE										OVER CULV.	SLOPE AND DITCH PAVING	END SECTION			MISCELLANEOUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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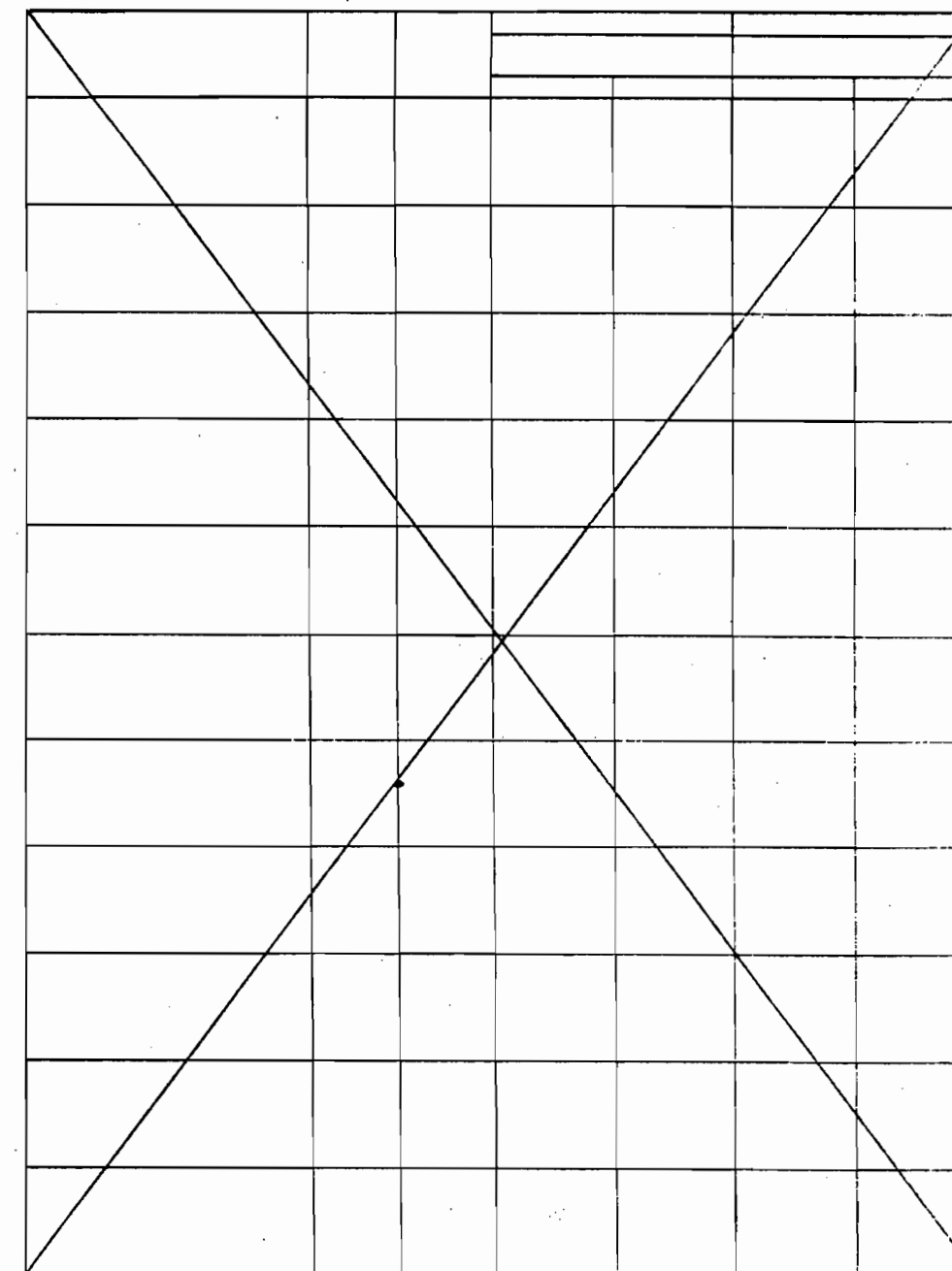
* It is estimated that 2-Corner and Line Grade Posts will be required

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
<u>VIII.</u>	COLORADO	EHS-T 7500(2)	7	

BASE COURSE AND SURFACE COURSE PLAN

STATION TO STATION	SOURCE	* TONS USED				HAUL-TON MILE			
		AGGREGATE BASE COURSE	HOT BITUMINOUS PAVEMENT		AGGREGATE BASE COURSE	HOT BITUMINOUS PAVEMENT			
			BOTTOM LAYER	TOP LAYER		BOTTOM LAYER	TOP LAYER		
<u>ON RAMP</u>									
6+51.9 ~ 12+46		452	123		2197	598			
12+46 ~ 12+51.5		6	1	1	29	5		5	
12+51.5 ~ 16+89 (No work section)									
16+89 ~ 17+69.0		86	16	12	405	75		57	
17+69.0 ~ 18+42.6		168	30	22	789	141		103	
1/2" Overlay on S. 5 th Street				179				86	
<u>OFF RAMP</u>									
2+78.5 ~ 3+24.0		18	3		86	14			
3+24 ~ 8+25.7 (No work section)									
8+25.7 ~ 10+30.8		214	41	31	1001	192		145	
<u>4th AVENUE</u>									
116+33 ~ 117+85.3		232	50	37	1088	234		174	
117+85.3 ~ 118+18		48	9	7	224	42		33	
118+18 ~ 120+05		318	63	46	1473	293		214	
120+05 ~ 123+43		592	115	82	2724	529		377	
123+43 ~ 128+72.5		890	180	127	4023	814		574	
128+72.5 ~ 136+84		1364	276	195	5992	1212		857	
136+84 ~ 137+70		103	22	17	444	95		73	
Estimated for:									
Irregularities		449			2048				
		4349.45			26,271				
TOTAL		4349	929	756	22,529	4244		3473	
								</	

* Aggregate from stockpile

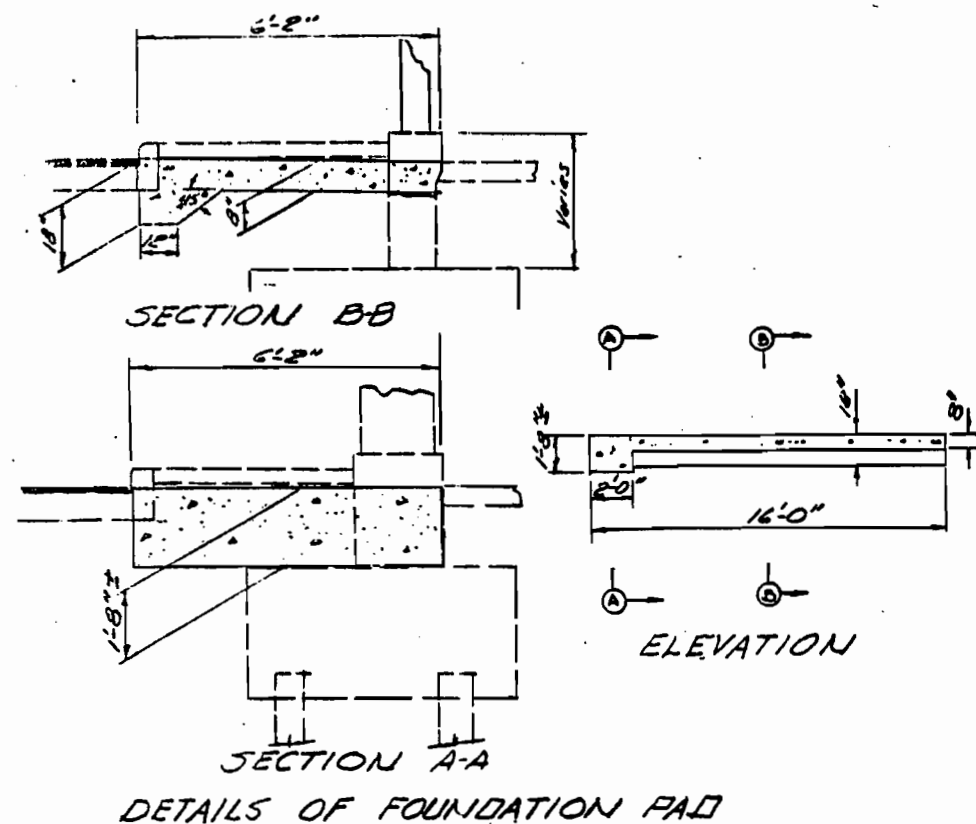


Stabilization Based on:

- EDLA 18" 28.0
- Regional Factor 1.5
- Serviceability Index 2.5
- Hot Bituminous Pavement 0.44 (R_f = 97)
- Aggregate Base Course 0.12 (R = 78)

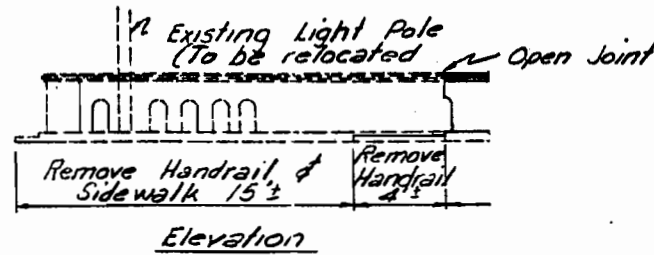
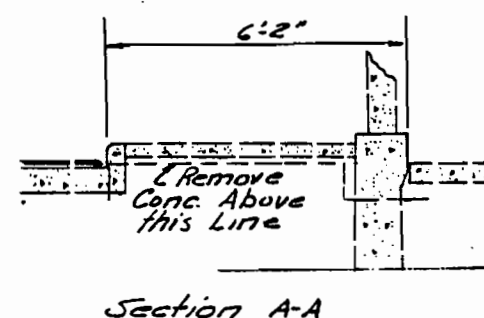
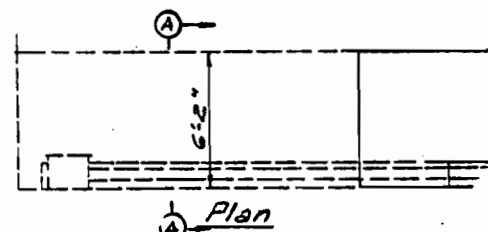
AS CONSTRUCTED
 NO REVISIONS DATE 4/10/73

FEDERAL ROAD ADMIN. NO.	DIVISION	PROJ. NO.	SHEET NO.	DATE
XIII	COLORADO	EHS-T 7500 (2)	9	



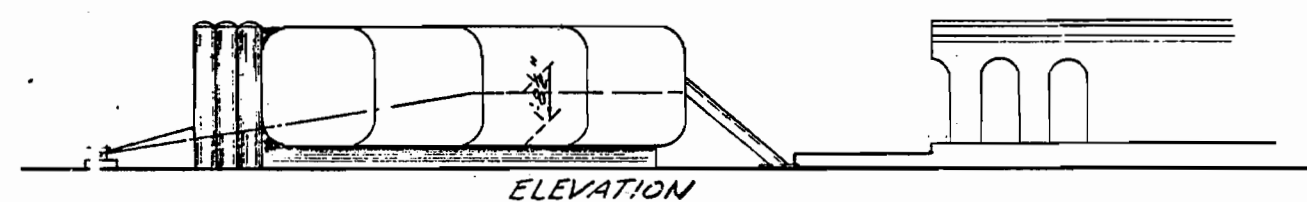
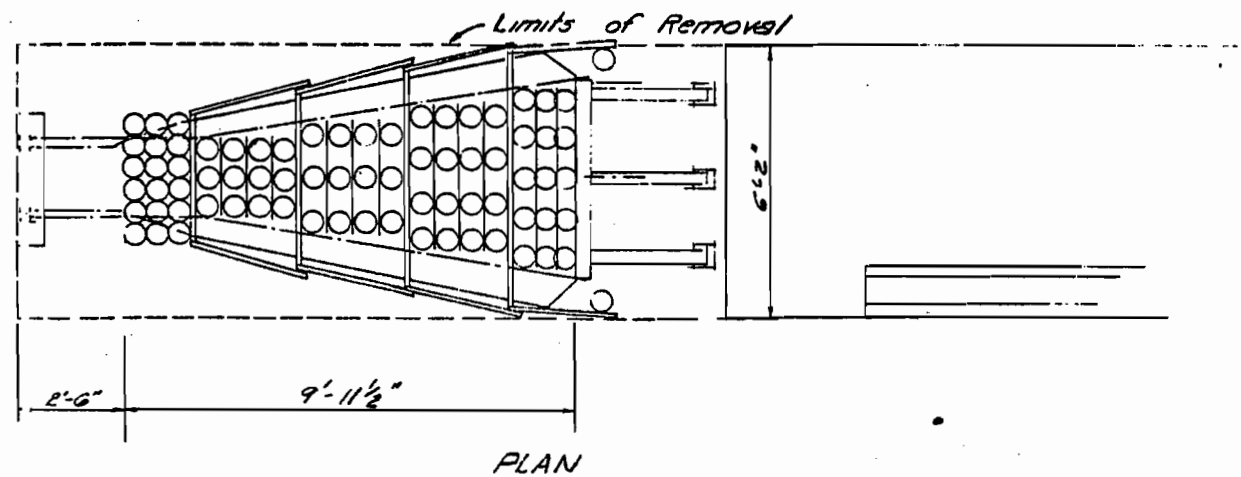
Traffic Flow
 5th Street

Traffic Flow
 To 4th Ave



DETAILS OF REMOVAL

ENERGY ABSORBER (WATER FILLED FLEXIBLE CONTAINER)



PIT NO. 1

Owner : Dale L. Dean and Virginia M. Dean

Location : Part of E 1/2 SE 1/4 Sec. 20, T.1 S., R.1 E. Ute Meridian

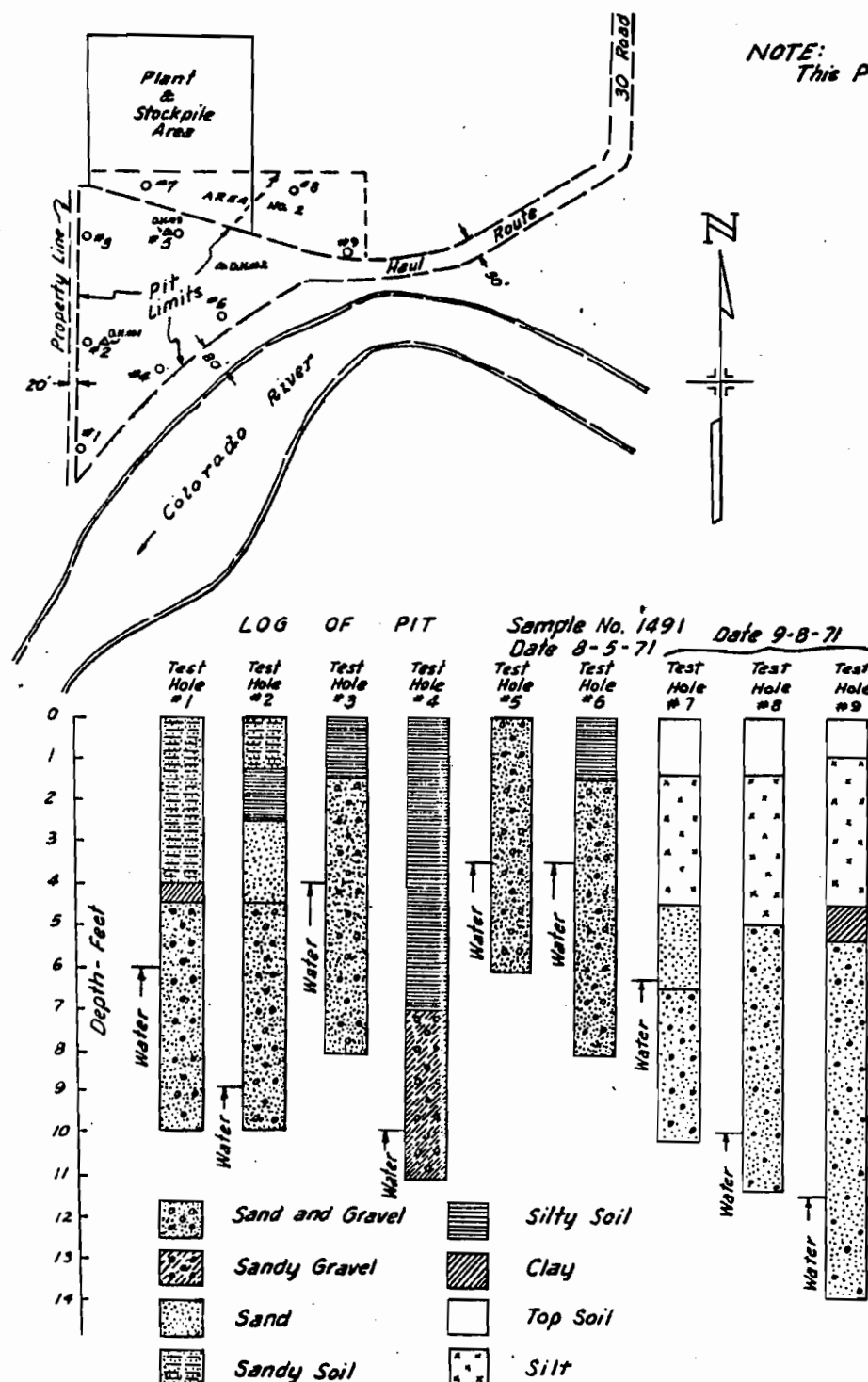
Proposed Use : Stockpile Aggr. for Aggregate Base Course, Hot Bituminous Pavement

Estimated Quantity : 9,000 Tons

Haul Distance : Approx. 4.3 Miles to Sta. 137170

AS CONSTRUCTED
NO REVISIONS DATE 4/10/79

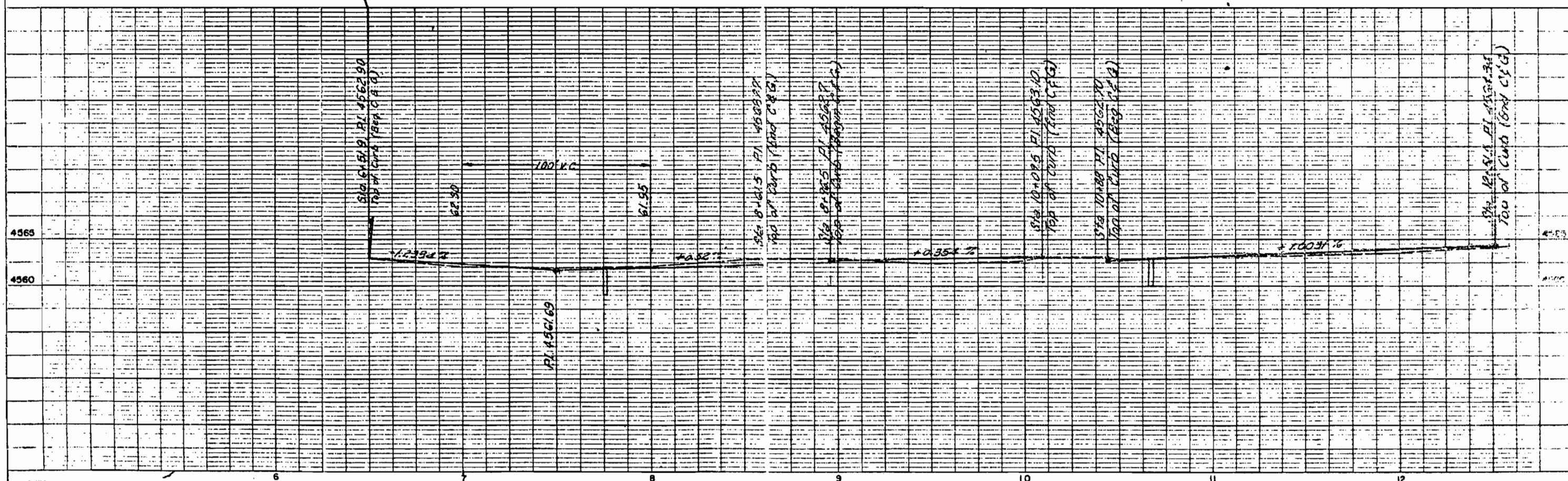
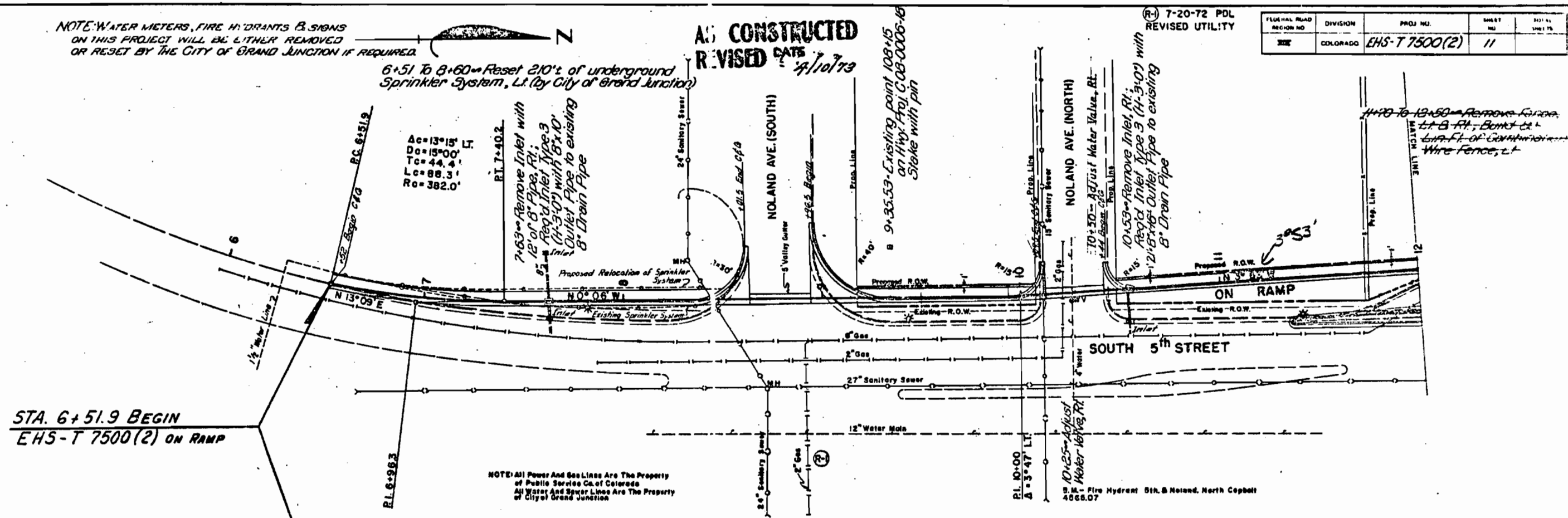
FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	EHS-T7500(2)	10	



NOTE:
This Pit was used on Project No. FOTO-1(1)

(R-1) 7-20-72 PDL
REVISED UTILITY

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SMOOTH NO.	DATE 1975
202	COLORADO	EHS-T 7500(2)	11	



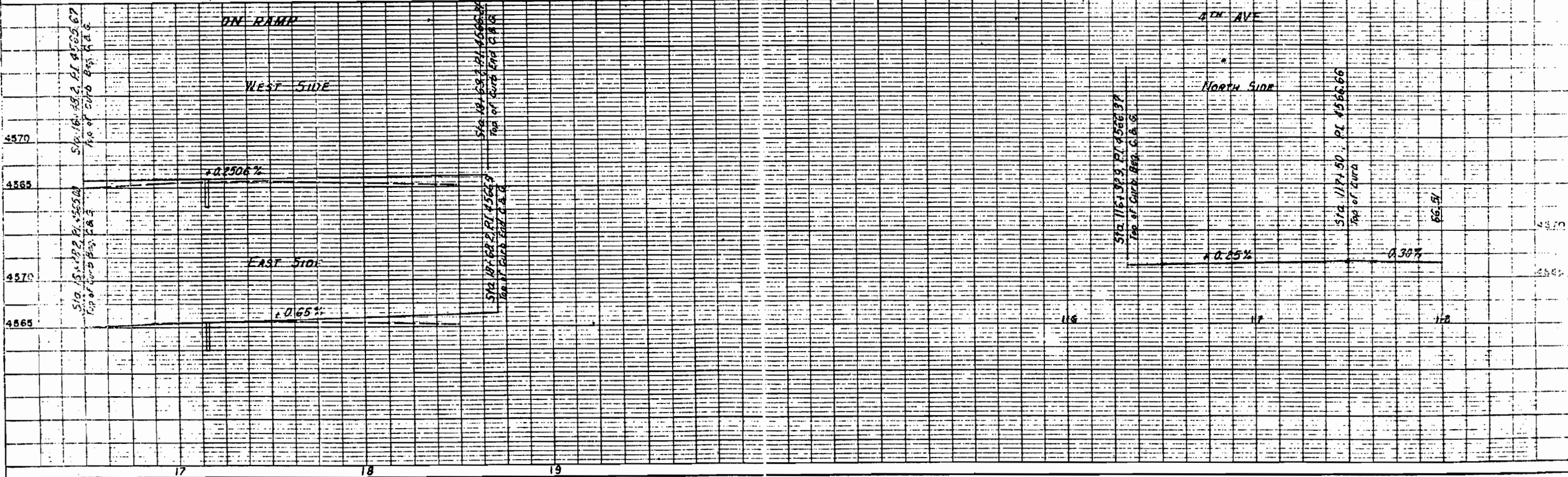
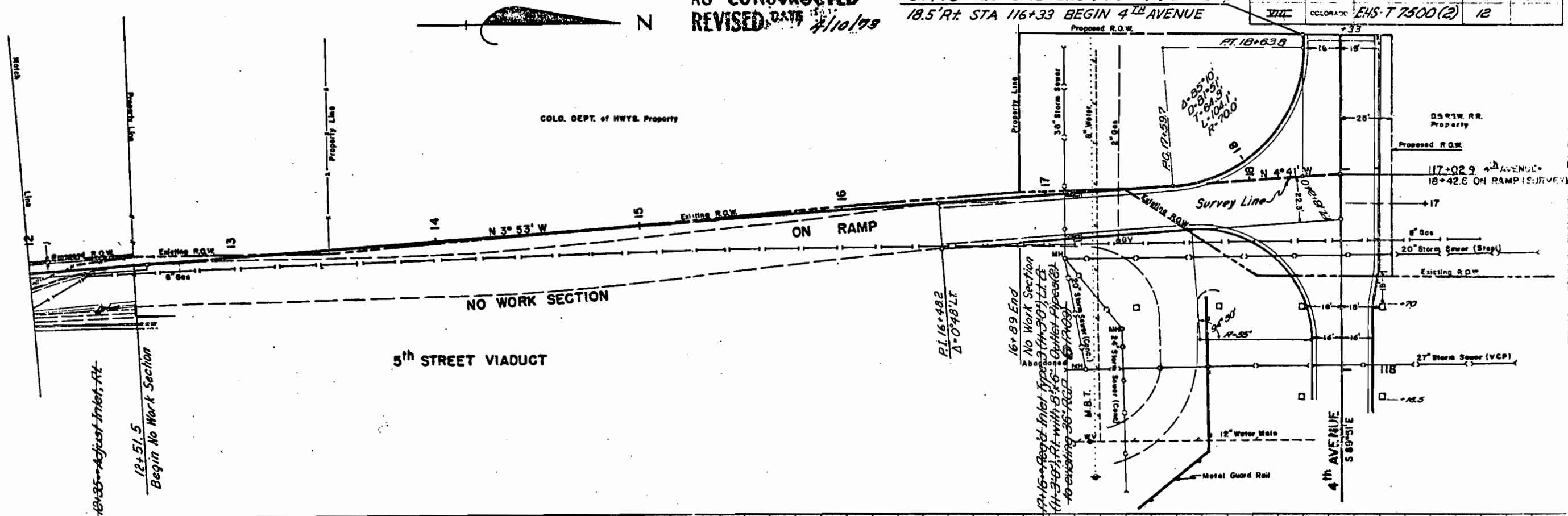
PLAN	NOTES
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AS CONSTRUCTED
REVISED DATE 4/10/79

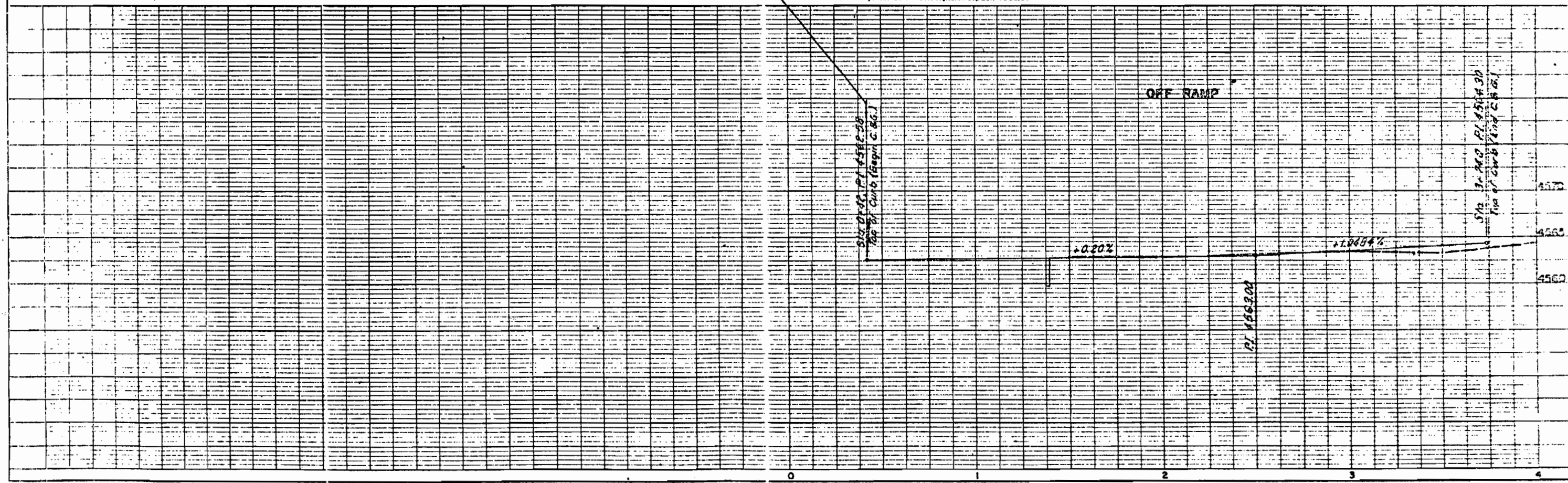
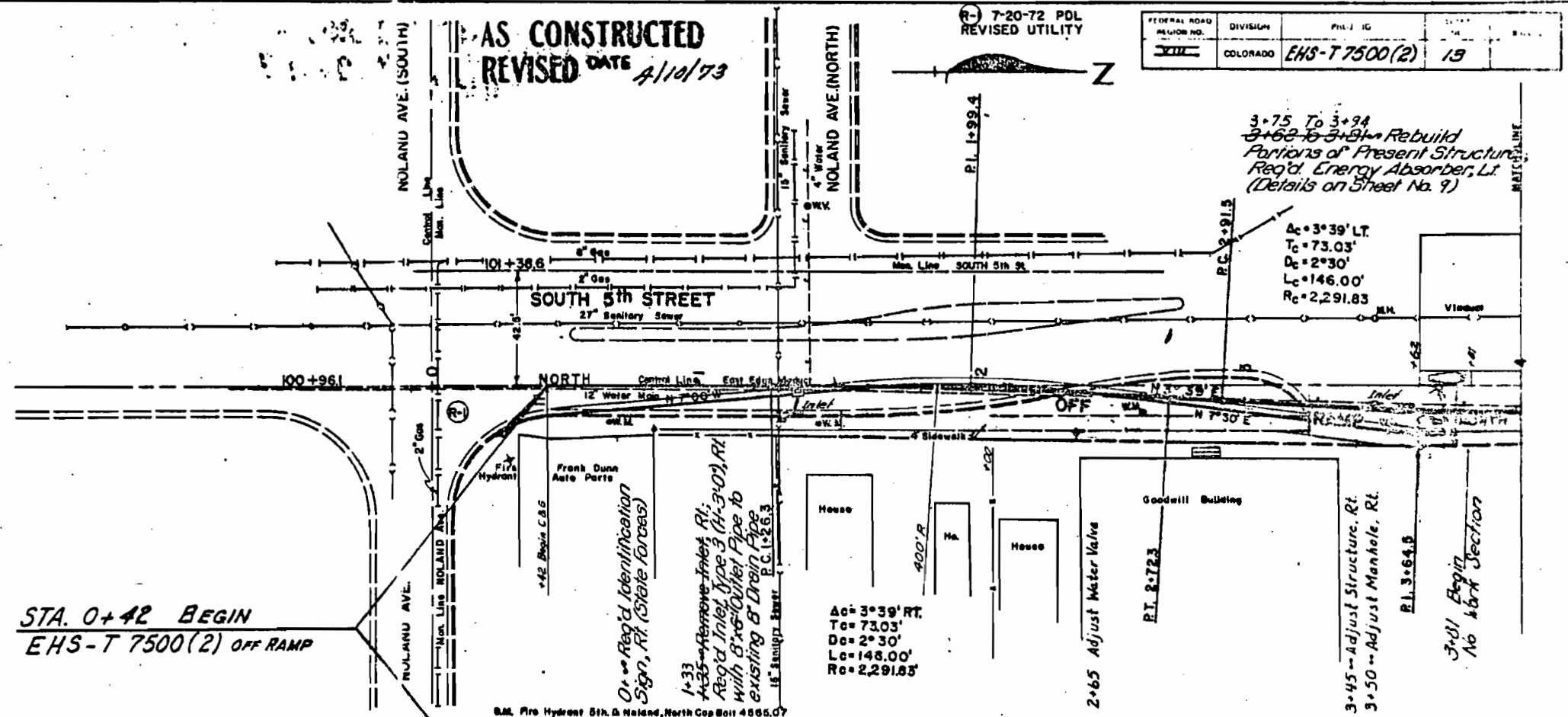
STA 18+71.0 END EHS-T7500(2) On Ramp
18.5' R+ STA 116+33 BEGIN 4TH AVENUE

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.
VI	COLORADO	EHS-T7500(2)	12



Project No. 100-1000
Sheet No. 100-1000
Scale 1" = 40'

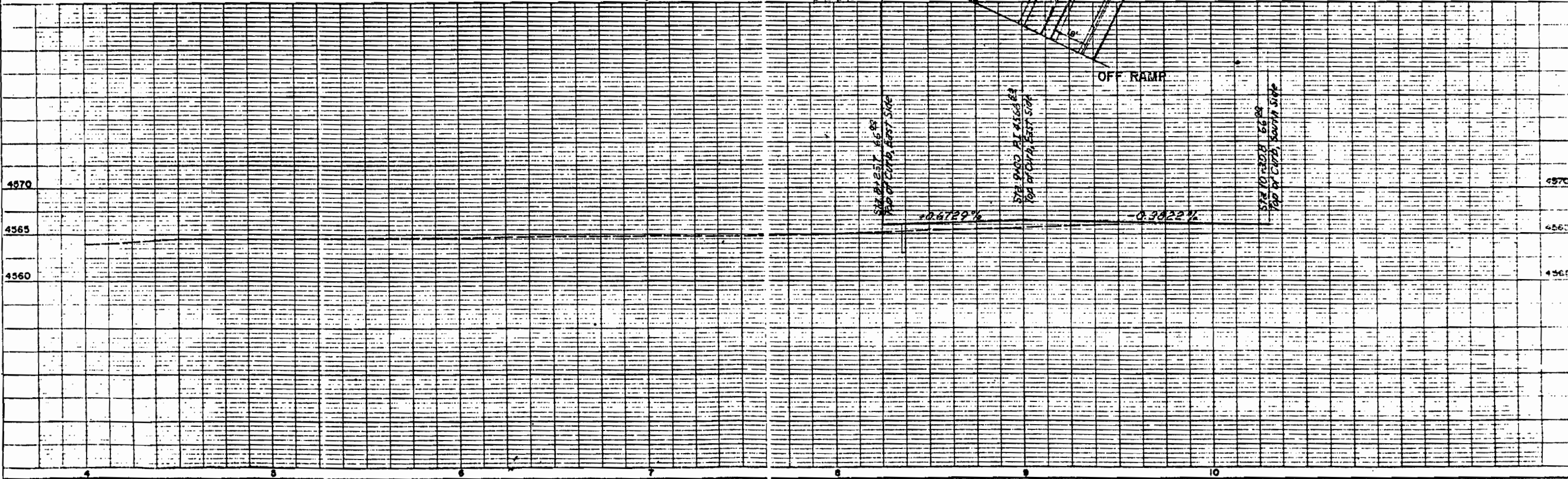
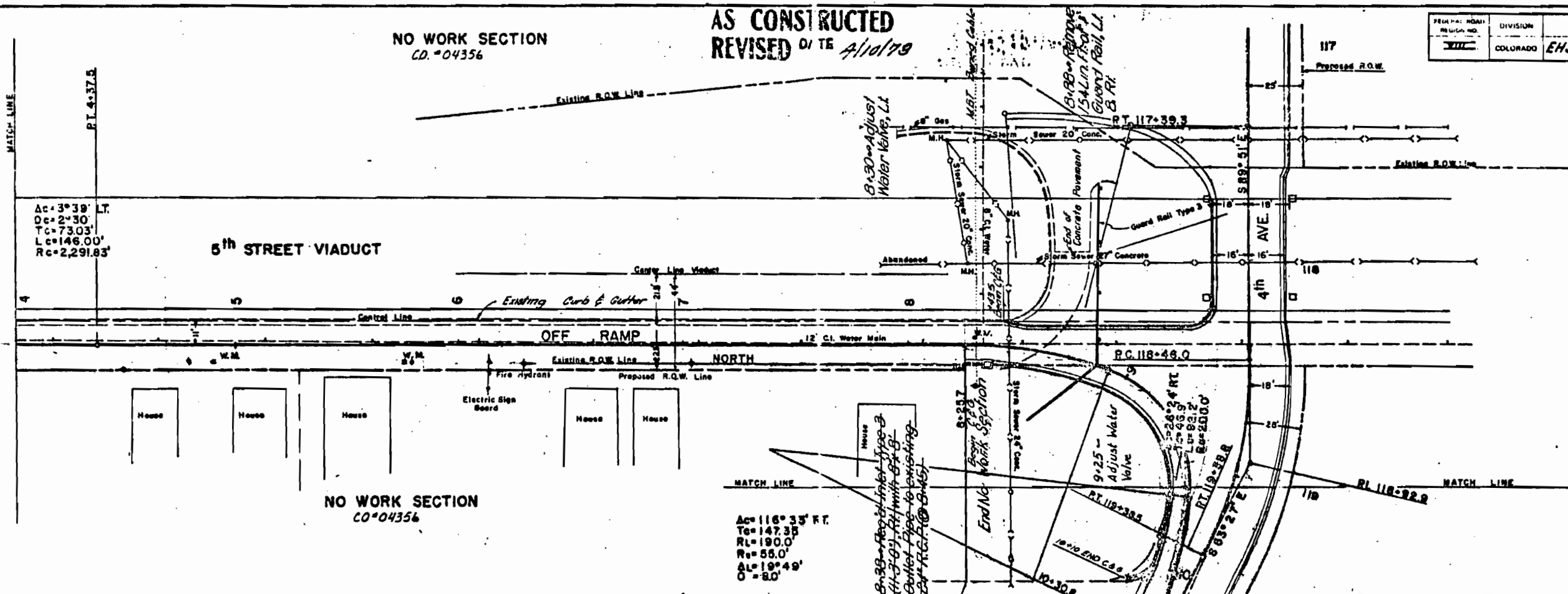
Project No. 100-1000
Sheet No. 100-1000
Scale 1" = 40'



NO WORK SECTION
CD-04356

AS CONSTRUCTED
REVISED 01/10/79

PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
117	COLORADO	EHS-77500(2)	14	

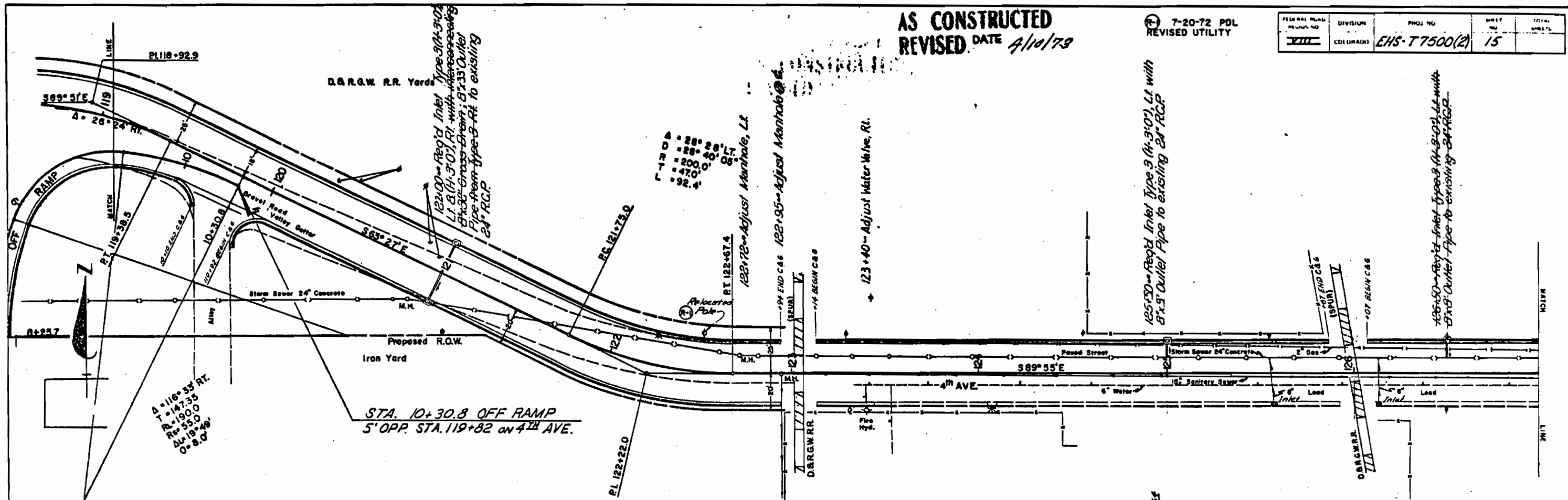


AS CONSTRUCTED
REVISED DATE 4/10/79

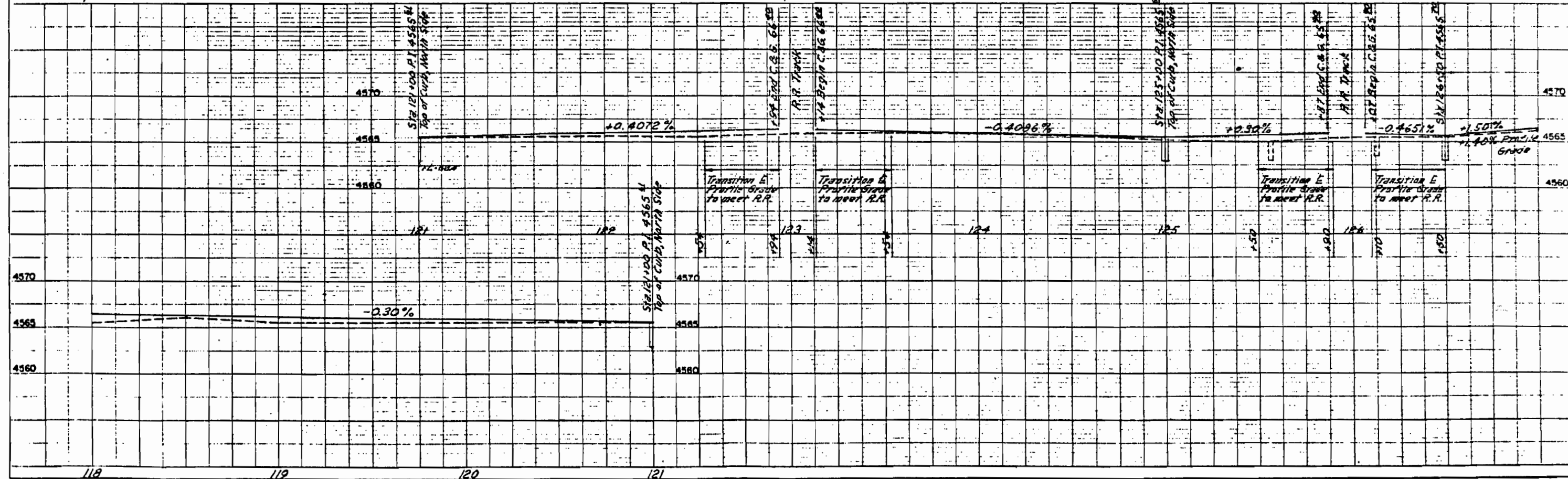
7-20-72 PDL
REVISED UTILITY

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	EHS-T7500(2)	15	

PLAN
NOTES
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL CURVES ARE TO BE CONSTRUCTED AS SHOWN.
3. ALL GRADES ARE TO BE CONSTRUCTED AS SHOWN.
4. ALL UTILITIES ARE TO BE DEEPENED TO THE PROPOSED GRADE.
5. ALL STRUCTURES ARE TO BE CONSTRUCTED AS SHOWN.



PROFILE
NOTES
1. ALL GRADES ARE IN FEET AND INCHES.
2. ALL GRADES ARE TO BE CONSTRUCTED AS SHOWN.
3. ALL GRADES ARE TO BE CONSTRUCTED AS SHOWN.



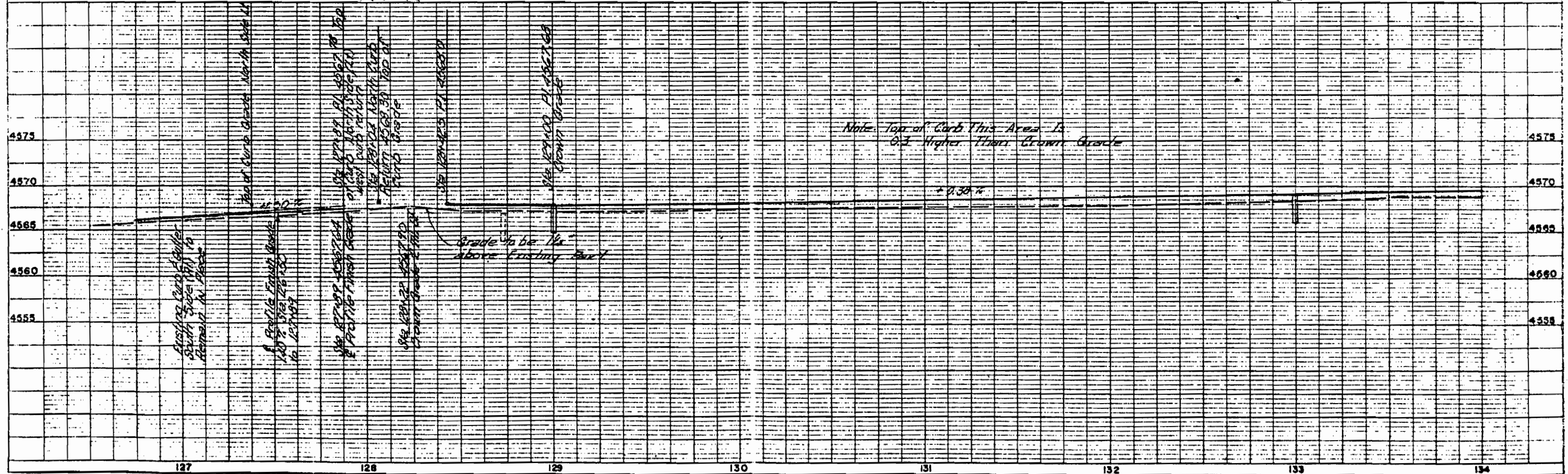
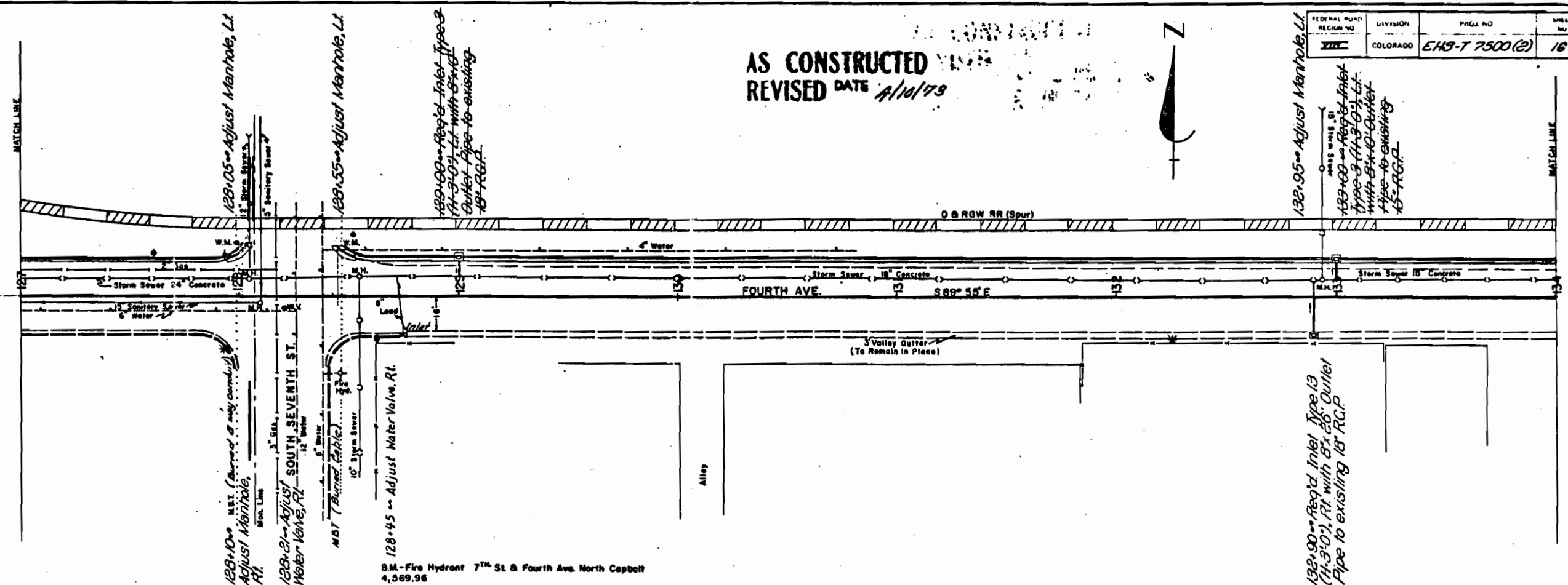
PLAN	Sheet No.	16
NOTES	1. SEE SHEET 15 FOR CONTINUATION	
	2. SEE SHEET 17 FOR CONTINUATION	

PROFILE	Sheet No.	16
NOTES	1. SEE SHEET 15 FOR CONTINUATION	
	2. SEE SHEET 17 FOR CONTINUATION	

AS CONSTRUCTED
REVISED DATE 4/10/79



FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
III	COLORADO	EH9-T 7500(2)	16



AS CONSTRUCTED
REVISED DATE 4/10/79

