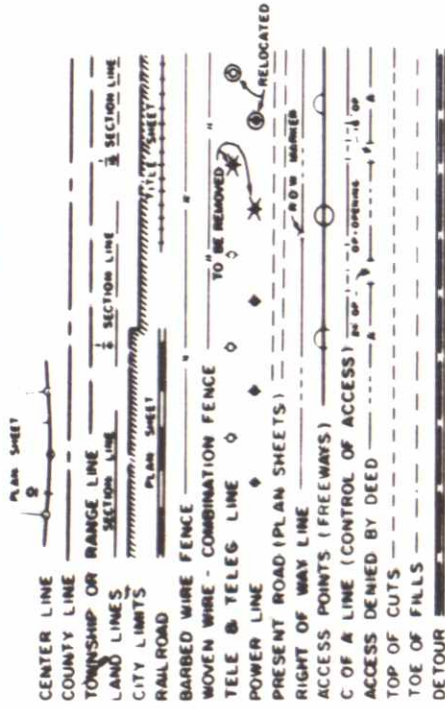


STATE DEPARTMENT OF HIGHWAYS AS CONSTRUCTED
DIVISION OF HIGHWAYS—STATE OF COLORADO

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	RF 034-3 (1)	1
(R-1) 6-22-70 M.W.M.			
(R-2) 7-29-70 CEM (R-3) 9-29-70 D.H.H.			
INDEX OF SHEETS			

CONVENTIONAL SIGNS



PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. RF 034-3 (1)

STATE HIGHWAY NO. 34

YUMA COUNTY

SHEET NO

- 1 SKETCH MAP, TITLE PAGE, TABULATION OF LENGTH & DESIGN DATA
- 2 TYPICAL SECTION, GENERAL NOTES
- 3 SUMMARY OF APPROXIMATE QUANTITIES
- 4 STRUCTURE QUANTITIES
- 5 SUMMARY OF EARTHWORK QUANTITIES, TYPE 6 CURB & EMBANKMENT
- 6 PROTECTORS, DELINEATORS, GUARD RAIL
- 7 FENCING TABULATION, SURFACING PLAN, DETAIL OF RIPRAP GABION LEFT STATION 5511+70
- 8 PIT SKETCHES
- 9 DETAILS OF SPILLWAY EXTENSION
- 10-26 DETAILS OF WIDENING BRIDGE D-28-B
- 27-31 PLAN AND PROFILE SHEETS
- 32-81 STRUCTURE CROSS SECTIONS

SCALES OF ORIGINAL DRAWINGS
ON PLAN: 1 IN. = 50 FT.
ON PROFILE: 1 IN. = 50 FT. HORIZONTAL
1 IN. = 5 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

DETAILS OF TYPE 3A GUARDRAIL POST SYSTEM.

- 10-A SUPERELEVATION & WIDENING OF CURVES - CROWNED HIGHWAYS 7-30-68
- M-203-A APPROACH: ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING 4-27-70
- M-203-B DITCH TYPES 7-23-68
- M-203-C EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS) 11-1-68
- M-206-A LETTERS AND FIGURES FOR STRUCTURE NUMBERS 7-1-65
- M-300-A SINGLE AND DOUBLE CONCRETE BOX CULVERTS 10-25-68
- M-601-A WINGWALLS FOR CONCRETE BOX CULVERTS - 4:1 SIDE SLOPES (2 SHEETS) 10-25-68
- M-601-C METAL CULVERT PIPE - H-20 LOADING 7-25-68
- M-603-M GUARD RAIL, TYPE 3 (3 SHEETS) 2-18-70
- M-606-AB WIRE FENCES AND GATES (2 SHEETS) 9-15-69
- M-607-A CURBS AND GUTTERS (2 SHEETS) 5-21-69
- M-609-A DELINEATORS (2 SHEETS) 7-11-68
- M-612-C TIMBER BARRICADES 4-23-69
- M-614-A STANDARD CONSTRUCTION IDENTIFICATION SIGNS (2 SHEETS) 5-20-69
- M-616-IC TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION (3 SHEETS) 12-24-68
- M-614-7B EMBANKMENT PROTECTOR-TYPE 3 & 4 (SHEET 1) 7-30-68
- M-615-A EMBANKMENT PROTECTOR-TYPE 5 (SHEET 2) 7-30-68
- M-601-L HEADWALL, INTERCEPTING HEADWALL AND CULVERT OUTLET PAVING 1-8-69
- M-603-CA CONCRETE AND METAL END SECTIONS 7-25-68
- M-604-BA INLET, TYPE C 7-19-68

CONTRACTOR: NORTHWESTERN ENGINEERING CO
PROJECT ENGR: C. O. MYLES
PROJECT STARTED: AUG 3, 1970
PROJECT COMPLETED: MARCH 9, 1971

STA. 5488+00 BEGIN RF 034-3 (1) =
STA. 5488+00 END FOI-I (10)
OPP: 5488+48 ON FOI-I (2)

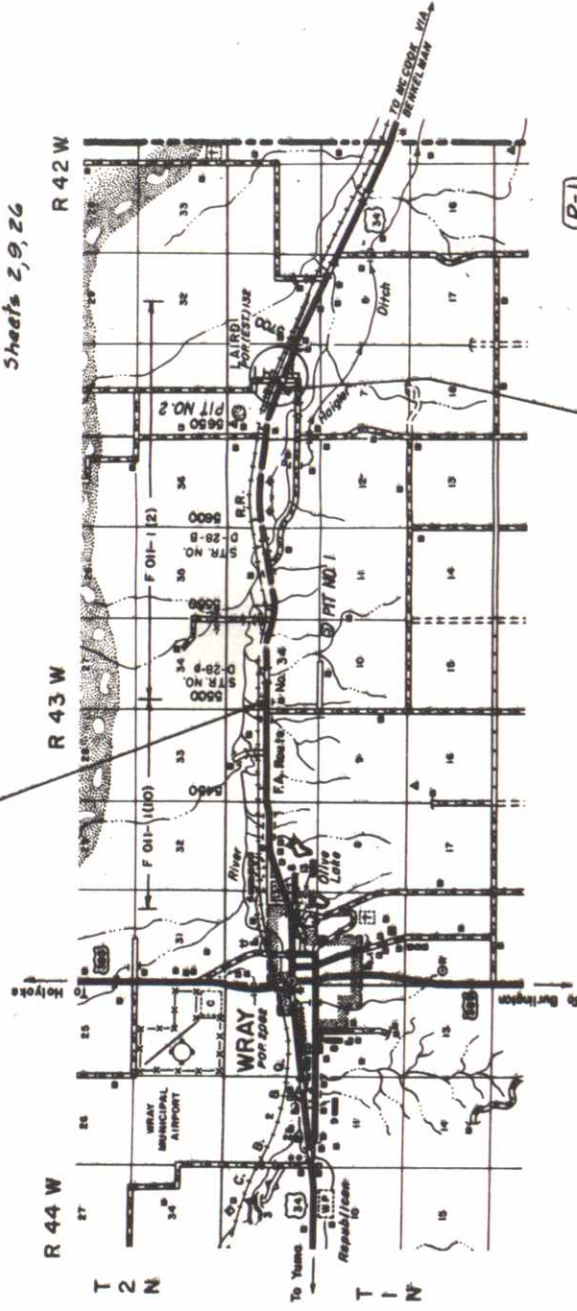
TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY LIN. FT.	MAJOR STRUCT'S LIN. FT.
5488+00 BEGIN RF 034-3 (1) = 5488+00 END FOI-I (10) Opp 5488+48 ON FOI-I (2)	4,351.9	52.2
S.T. 5531+51.9 B.N.C. (7) COUNTRY P.O.T. 5531+52.1 (M)	4,949.9	
5581+22 BEGIN BRIDGE S.T. 5581+22 5582+14.2 END BRIDGE	9,185.8	
5674+00 END RF 034-3 (1) OPP: 5674+48 ON FOI-I (2)		
TOTALS	18,507.6	52.2
SUMMARY	18,507.6	5.505
ROADWAY	18,507.6	.018
MAJOR STRUCTURE	92.2	
ROADWAY (NET & GROSS LENGTH)	18,509.8	5.525
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	2°00'	
MAXIMUM GRADE	2.00%	
MINIMUM SSD HORIZONTAL	> 900'	
MINIMUM SSD VERTICAL	650'	
MAXIMUM DESIGN SPEED	60 M.P.H. (R-2)	

(R-2) 1990 Design Traffic Volume = 1450 A.D.T.
174 D.H.V.

M. W. M.

As Constructed "No Revisions"
Sheets 2, 9, 26



(R-1) STA. 5674+00 END RF 034-3 (1)
OPP: 5674+48 ON FOI-I (2)

SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

DIVISION OF HIGHWAYS
STATE OF COLO.

FINAL APPROVAL, AS
CONSTRUCTED PLANS

APPROVED: *[Signature]* DATE: April 19, 1971
DIST CONST ENGR.

DIVISION OF HIGHWAYS

APPROVED: *[Signature]* DATE: 4-11-70
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

APPROVED: _____ DATE: _____
DIVISION ENGINEER



SCALE OF MILES

Preliminary Soil Survey Sample
No. 4346 Project No. FOI-1 (1d) (Sta. 5488+ to 5495)
No. 1209 Project No. RF034-3(1) (Sta. 5545+ to 5670+)

Test No. 5A Plastic Gravel (Poor quality)	
Test No. 17B A-4(0)	N.P.
Test No. 17C A-4(0)	N.P.
Test No. 17D A-4(0)	N.P.
Test No. 17E A-4(0)	N.P.
Test No. 17F A-4(0)	N.P.
Test No. 17G A-4(0)	N.P.
Test No. 17H A-4(0)	N.P.
Test No. 17I A-4(0)	N.P.
Test No. 17J A-4(0)	N.P.
Test No. 17K A-4(0)	N.P.
Test No. 17L A-4(0)	N.P.
Test No. 17M A-4(0)	N.P.
Test No. 17N A-4(0)	N.P.
Test No. 17O A-4(0)	N.P.
Test No. 17P A-4(0)	N.P.
Test No. 17Q A-4(0)	N.P.
Test No. 17R A-4(0)	N.P.
Test No. 17S A-4(0)	N.P.
Test No. 17T A-4(0)	N.P.
Test No. 17U A-4(0)	N.P.
Test No. 17V A-4(0)	N.P.
Test No. 17W A-4(0)	N.P.
Test No. 17X A-4(0)	N.P.
Test No. 17Y A-4(0)	N.P.
Test No. 17Z A-4(0)	N.P.

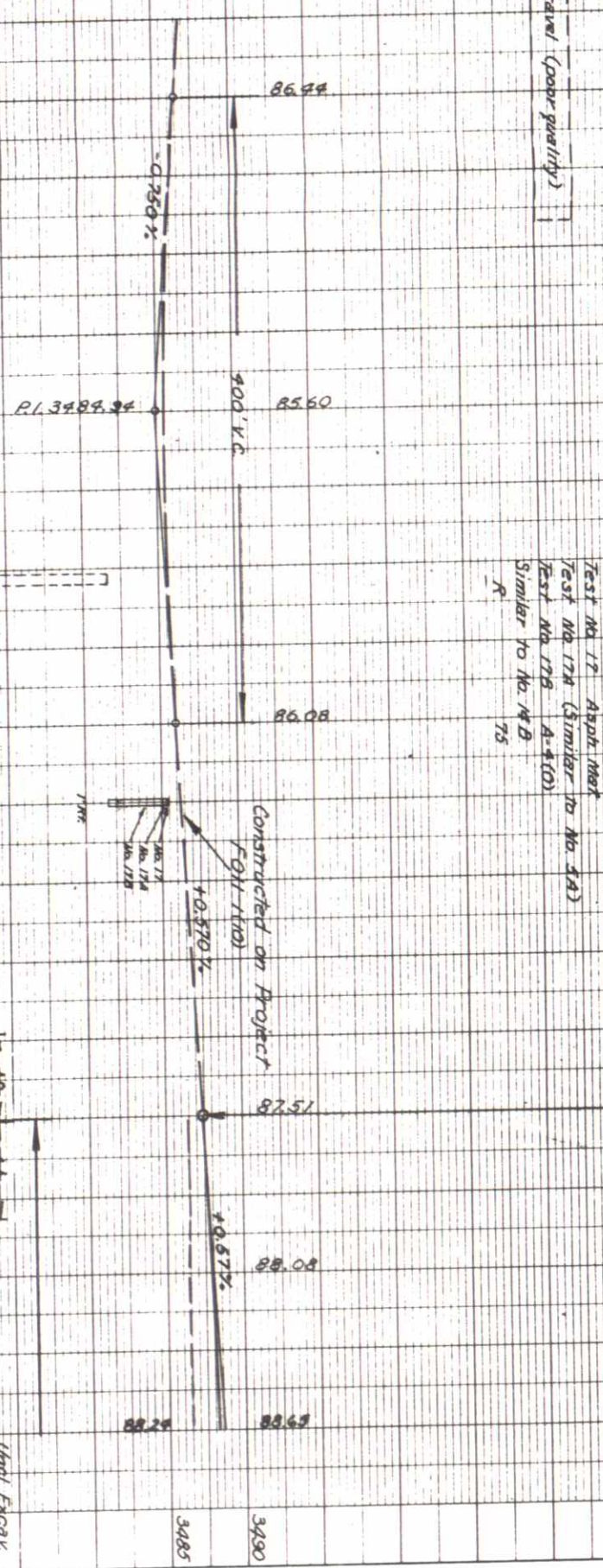
B.M. 5488.95
N.G. 70' W. Sta. 5488+00



3480

3485

3490



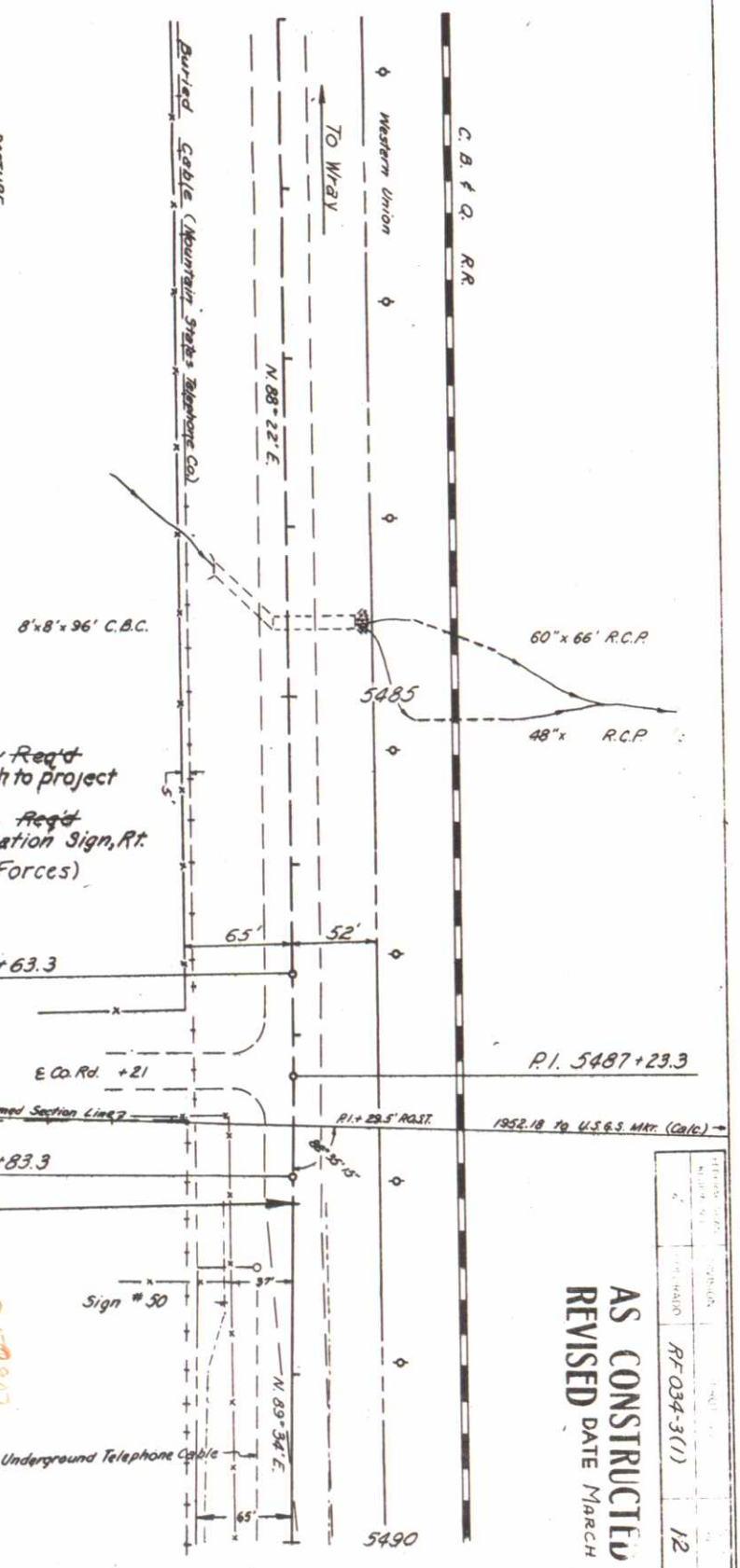
Test No. 17A Asphalt
Test No. 17B (Similar to No. 5A)
Test No. 17C (Similar to No. 14B)
Test No. 17D (Similar to No. 14B)
Test No. 17E (Similar to No. 14B)
Test No. 17F (Similar to No. 14B)
Test No. 17G (Similar to No. 14B)
Test No. 17H (Similar to No. 14B)
Test No. 17I (Similar to No. 14B)
Test No. 17J (Similar to No. 14B)
Test No. 17K (Similar to No. 14B)
Test No. 17L (Similar to No. 14B)
Test No. 17M (Similar to No. 14B)
Test No. 17N (Similar to No. 14B)
Test No. 17O (Similar to No. 14B)
Test No. 17P (Similar to No. 14B)
Test No. 17Q (Similar to No. 14B)
Test No. 17R (Similar to No. 14B)
Test No. 17S (Similar to No. 14B)
Test No. 17T (Similar to No. 14B)
Test No. 17U (Similar to No. 14B)
Test No. 17V (Similar to No. 14B)
Test No. 17W (Similar to No. 14B)
Test No. 17X (Similar to No. 14B)
Test No. 17Y (Similar to No. 14B)
Test No. 17Z (Similar to No. 14B)

PASTURE

5488+ ~ Req'd approach to project
5488+ ~ Req'd Identification Sign, Rt. (State Forces)

PC. 5486+63.3
PT. 5487+83.3
D=1'12"
T=60.0'
L=120.0'
R=5730'
S=0.00217%

STA. 5488+00 ~ BEGIN RF034-3(1)
STA. 5488+00 END FOI-1(1d) O.P.P.
STA. 5488+48 ON FOI-1(2)
N.W. 1/4 Sec. 3
T.1N., R.43 W.



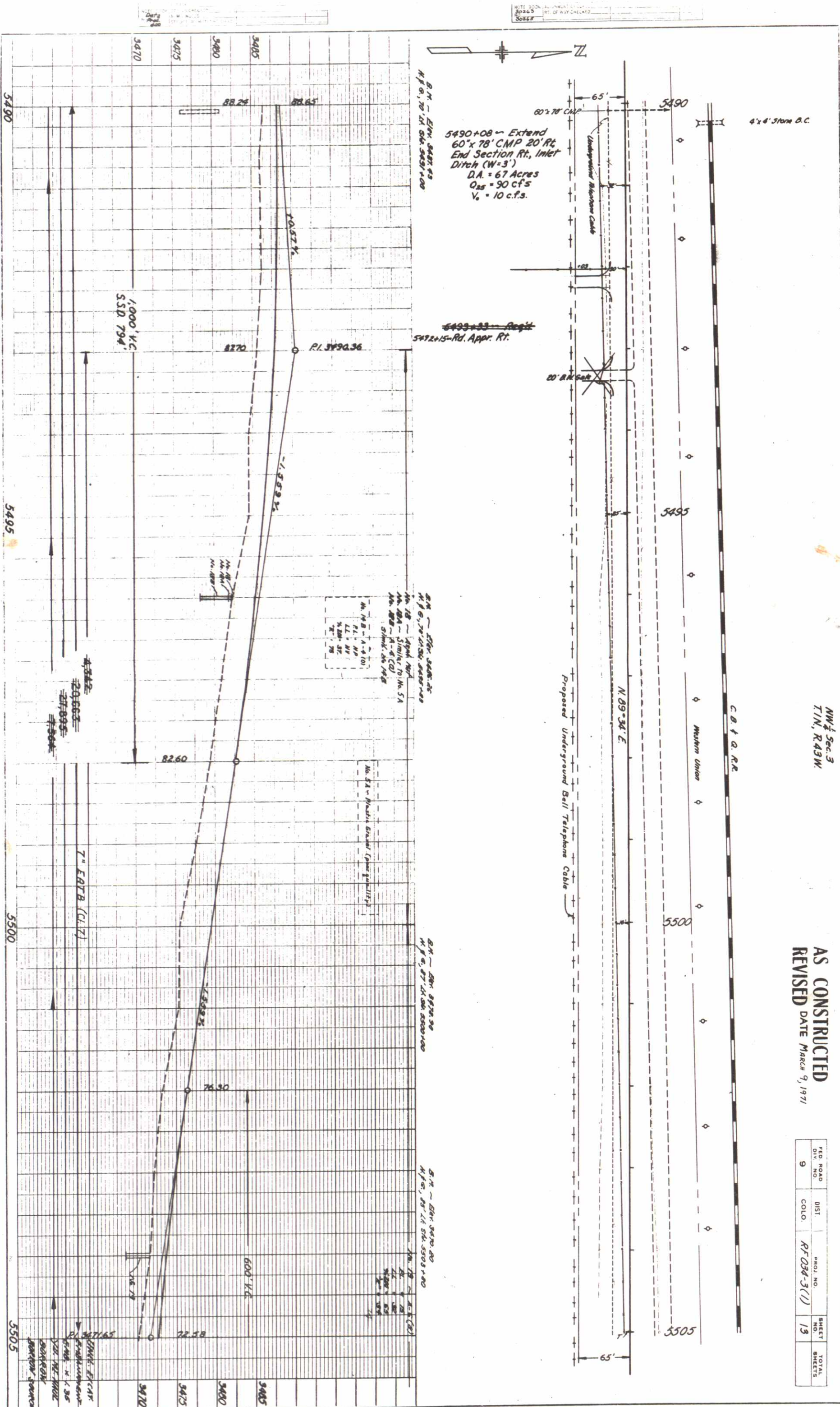
AS CONSTRUCTED
REVISED DATE MARCH 9, 1971

PROJECT NO.	RF034-3(1)	12
DATE	MARCH 9, 1971	
BY		
CHECKED		
APPROVED		

NW 1/4 Sec 3
T1N, R43W

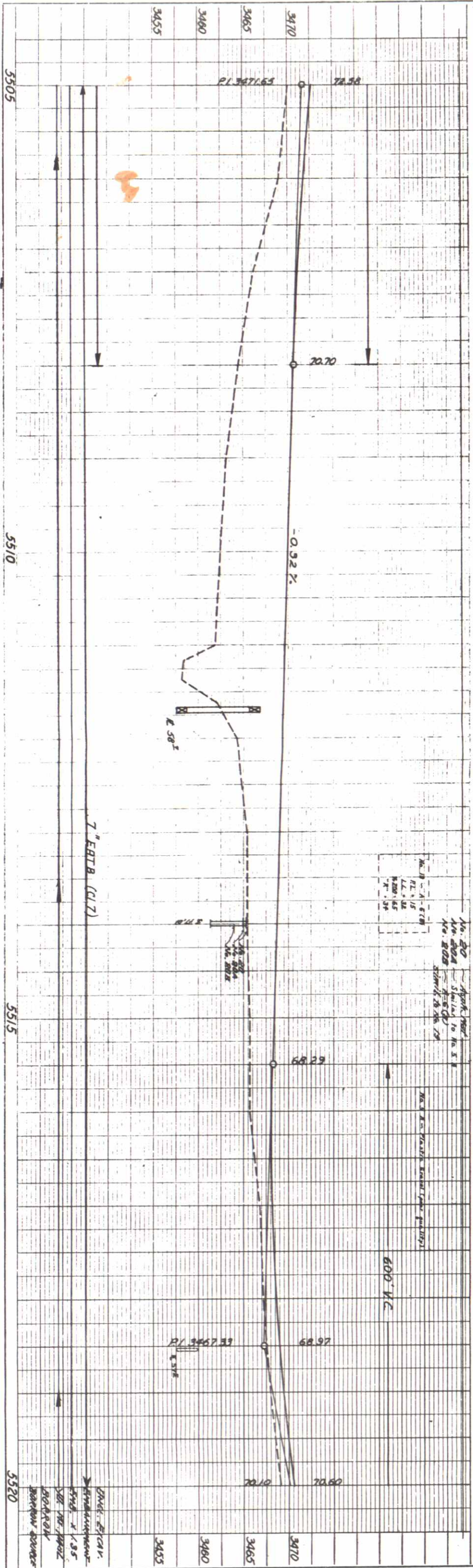
AS CONSTRUCTED
REVISED DATE MARCH 9, 1971

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	RF 034-3(1)	13	



PLAN	DATE	BY	CHKD
NOTED	3/2/68		
NOTE	1.0		
2.0			
3.0			
4.0			
5.0			
6.0			
7.0			
8.0			
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100.0			

PLAN	DATE	BY	CHKD
NOTED	3/2/68		
NOTE	1.0		
2.0			
3.0			
4.0			
5.0			
6.0			
7.0			
8.0			
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99.0			
100.0			



5511+ ~ Remove Bridge
(Salvage Material)
(Str. No. D-28-A)
5511+70 ~ ~~12'x7'x36'~~
CBC (Type 12A) Riprap (6'x12')
at Outlet, Channel Improvement
Lt. & Rt. (W12) (Details Sh. 7)
DHW=3466± S_c=0.06'/ft.
D.A.=2.3 Sq. Mi., AHW=3467±
V=15' f.p.s. Q₂₅=700 c.f.s.
Str. D-28-A
2 Span Timber
Total Length 46.5'
Clear Roadway 30'
5512+55 ~ ~~18'x30'~~
Side Drain & Rd. Appr. Rt.

5518+44 ~ Remove Damaged
Ends, Extend 24'x74' C.M.P.
20'± Lt. & Rt. Riprap at
Outlet, Inlet Ditch
24'x74' C.M.P.

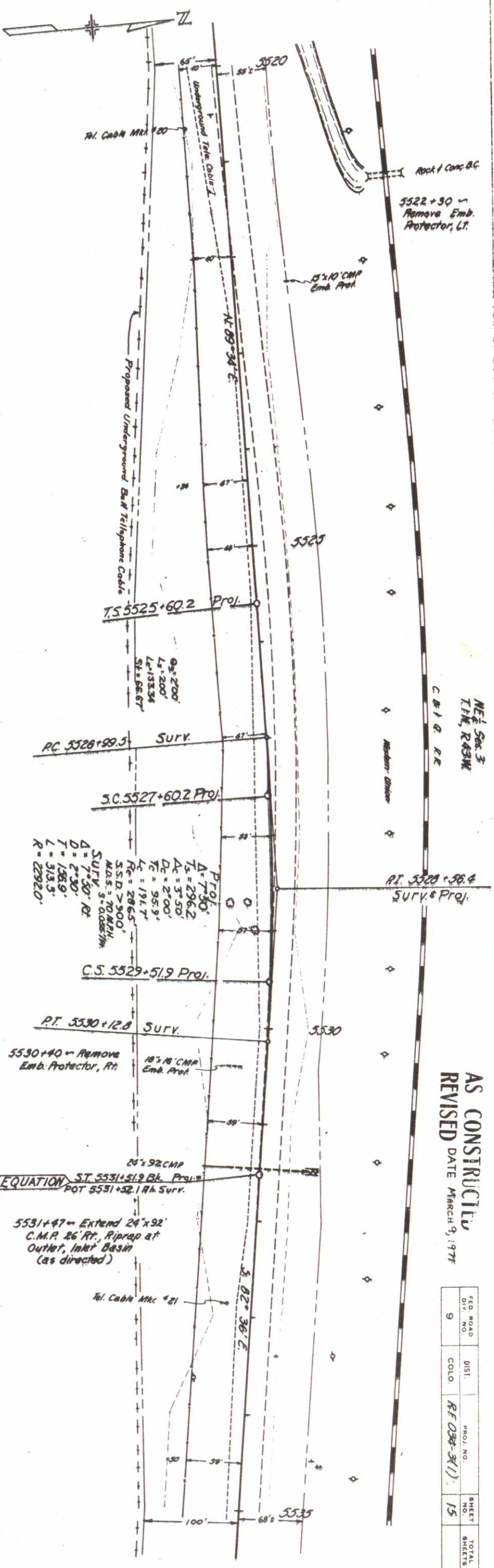
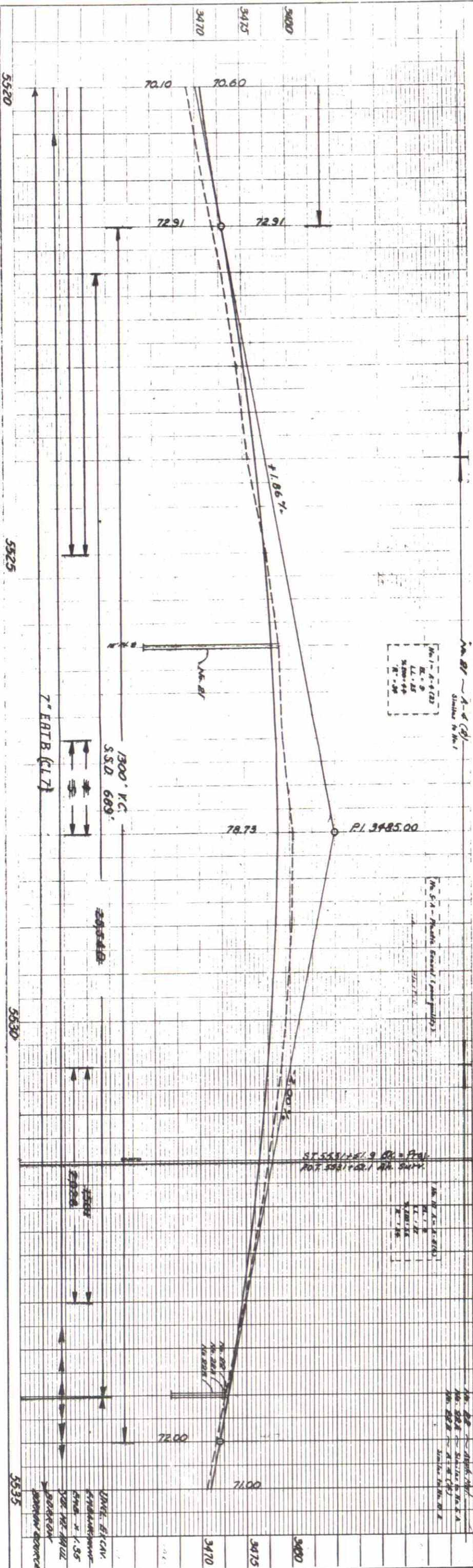
NW 1/4 Sec. 3
T1N, R43W

AS CONSTRUCTED
REVISED DATE MARCH 9, 1971
NE 1/4 Sec. 3
T1N, R43W

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	R-034-3(1)	14	

PROFILE	PLANNED
NOTED	PLANNED
GRADING CHECKED	GRADING CHECKED
STRUCTURE NOTATION CHKD	STRUCTURE NOTATION CHKD

PLAN	PURPOSE
POLE BOOK	ALUMINUM CHECKED
80000	RT. OF WAY CHECKED
80000	



AS CONSTRUCTED
REVISED DATE MARCH 9, 1977

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	RF 034-3(1)	15	

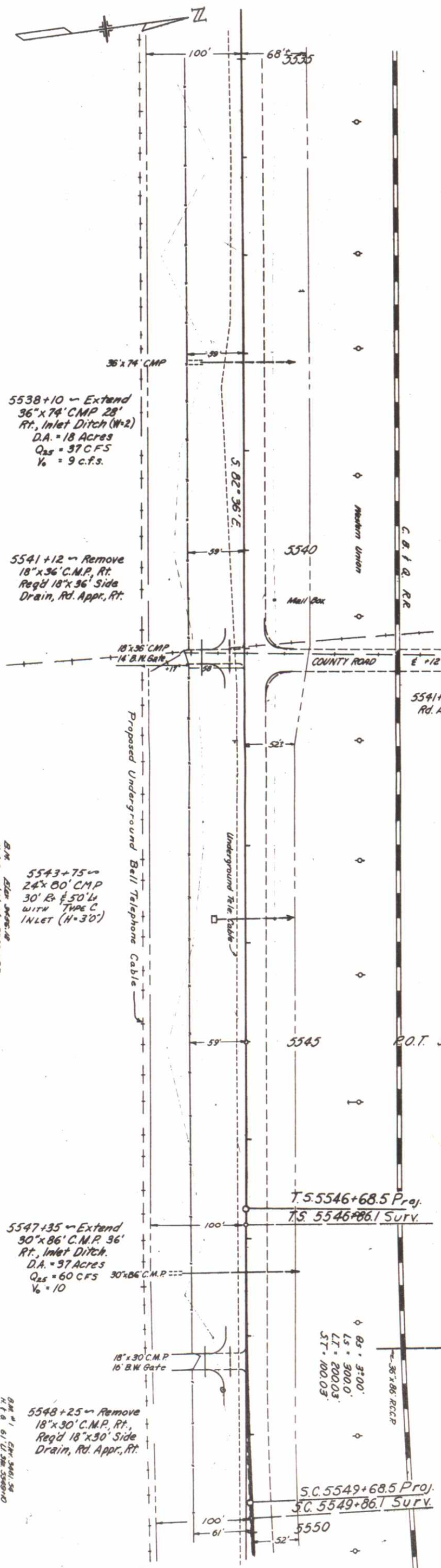
NE $\frac{1}{4}$ Sec. 3
T. 1 N., R. 43 W.

AS CONSTRUCTED
REVISED DATE March 9, 1971

P.O.T. 5545+00.0

NW $\frac{1}{4}$ Sec. 2
T. 1 N., R. 43 W.

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9		RF 034-3(1)	16	



5538+10 ~ Extend
36"x74" CMP 28'
Rt., Inlet Ditch (W-2)
D.A. = 18 Acres
Q₂₅ = 37 CFS
Y₀ = 9 c.f.s.

5541 + 12 ~ Remove
18" x 36' C.M.P., Rt.
Req'd 18" x 36' Side
Drain, Rd. Appr., Rt.

5541+17 ~ Req'd
Rd. Appr. Lt.

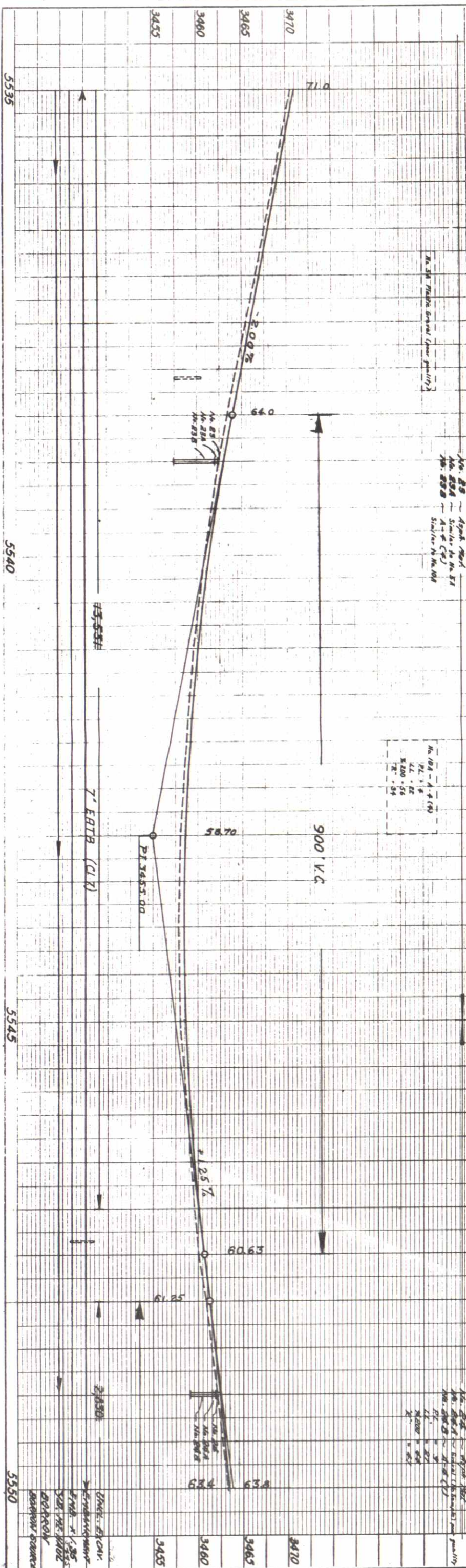
5543+75 ~
24' x 80' CMP
30' R+ & 50' L
WITH TYPE C
INLET (H=3'0")

5547+35 ~ Extend
30"x86' C.M.P. 36"
Rt., Inlet Ditch.
D.A. = 37 Acres
Q₂₅ = 60 CFS 30"
V₀ = 10

5548+25 - Remove
18"x30' C.M.P., Rt.,
Reg'd 18"x30' Side
Drain, Rd. Appr., Rt.

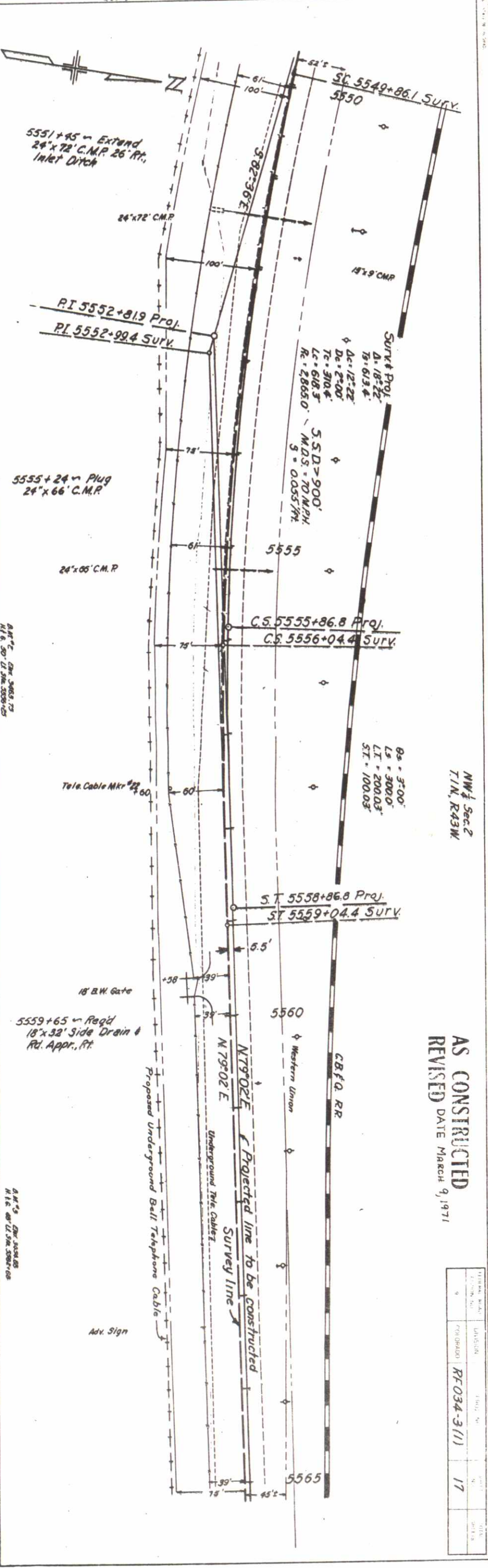
$T. 5.5546 + 68.5 \text{ Proj.}$
 $T. 5.5546 + 86.1 \text{ Surv.}$

S.C. 5549+68.5 Proj.
S.C. 5549+86.1 Surv.



N. J. O. 35 1/4 36. 5343 + 36

Q.M. #1 EPR 3461.54
H. & A. 61' U. 3463.44

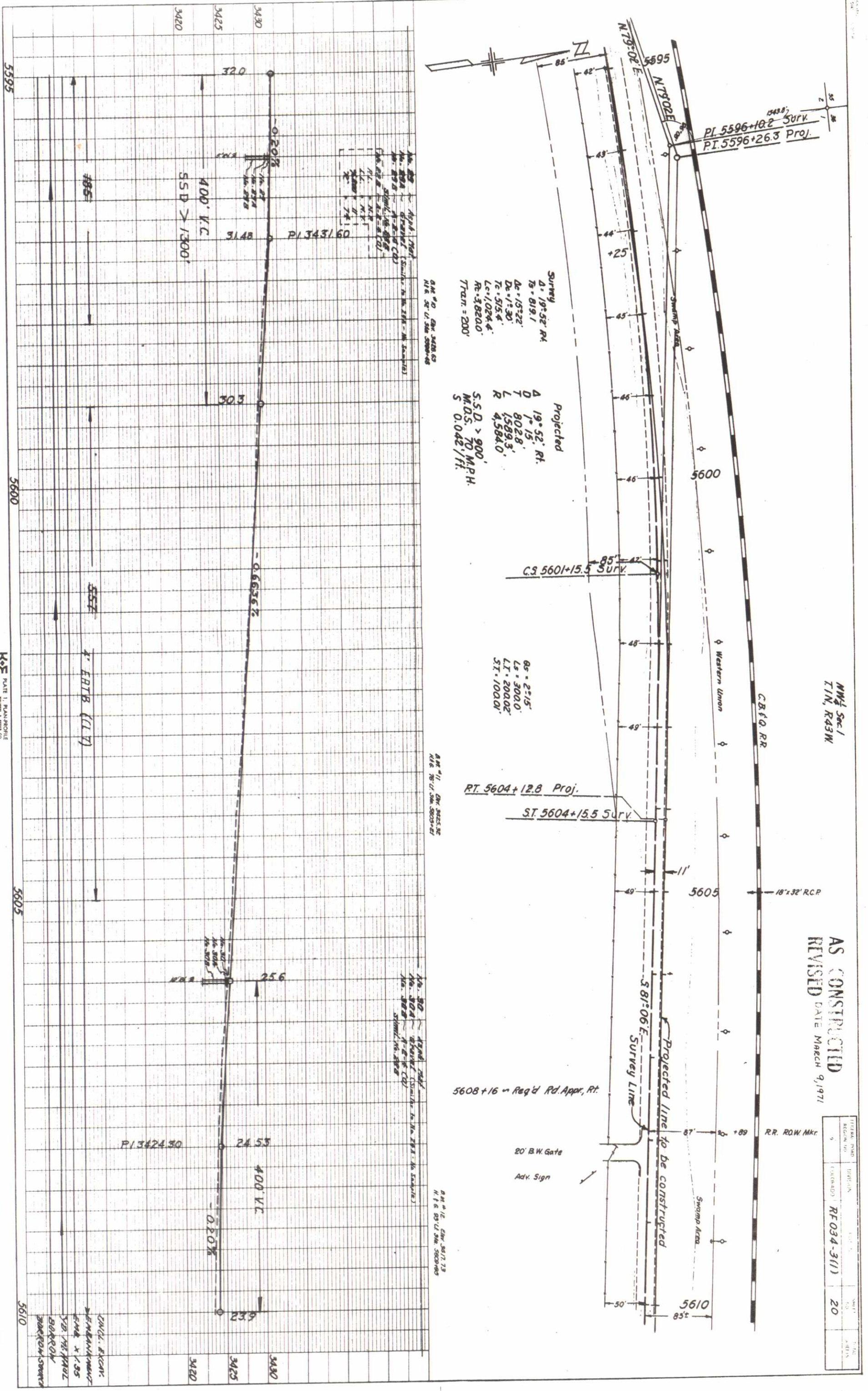


NW $\frac{1}{4}$ Sec. 2
T. 1 N., R. 43 W.

FORM NO. 1 1-5-59b (4-5)	DATE	TIME	BY	REMARKS
9	COLOMADO	RF034-3(11)	17	

PROFILE
 SURVEYED
 PLATTED
 GRADES CHECKED
 DATE
 1971

SURVEY
 PLATTED
 GRADES CHECKED
 DATE
 1971

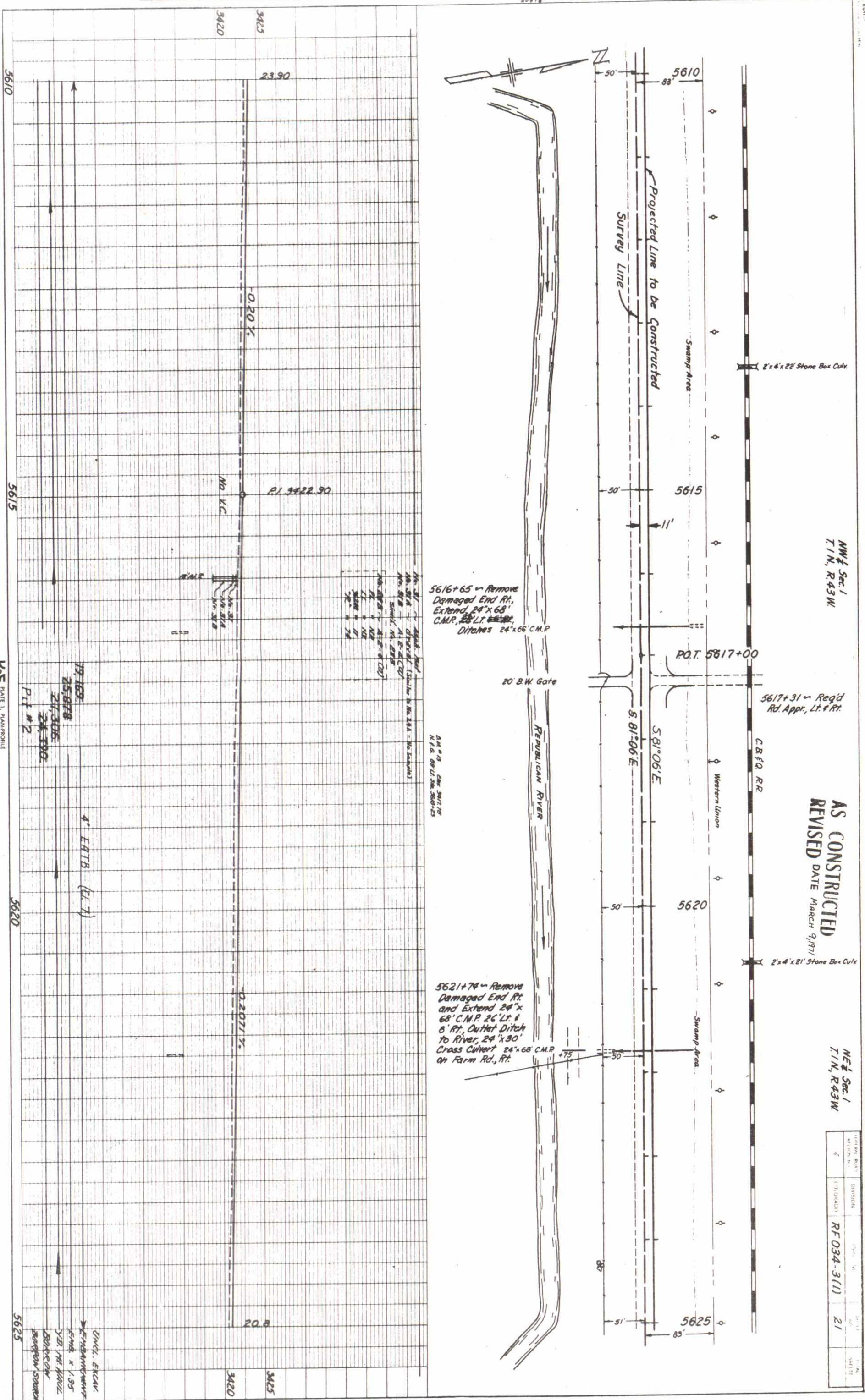


NW 1/4 Sec 1
 T1N, R43W
 AS CONSTRUCTED
 REVISED DATE MARCH 9, 1971

SECTION	SHEET	DATE
1	20	1971

PROFILE	DESIGNED	DATE
NOTE BOOK	GRADES CHECKED	DATE
30876	30877	30878

PLAN	DESIGNED	DATE
NOTE BOOK	GRADES CHECKED	DATE
30876	30877	30878



NW 1/4 Sec. 1
T.1N., R.43W.

AS CONSTRUCTED
REVISED DATE MARCH 9, 1971

NE 1/4 Sec. 1
T.1N., R.43W.

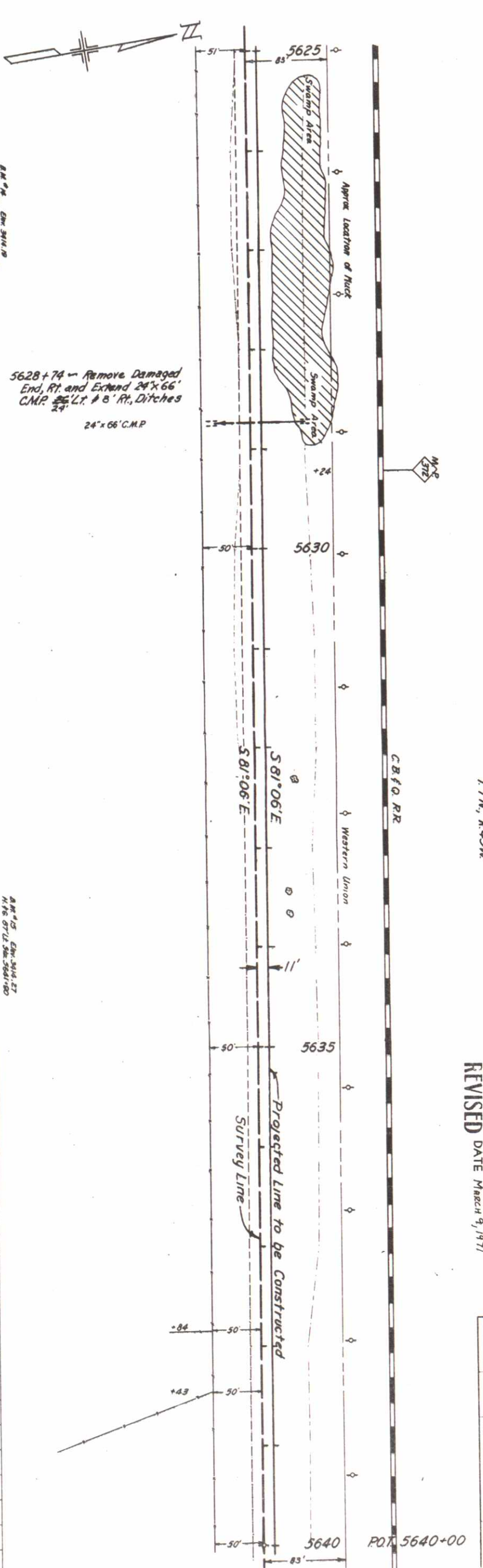
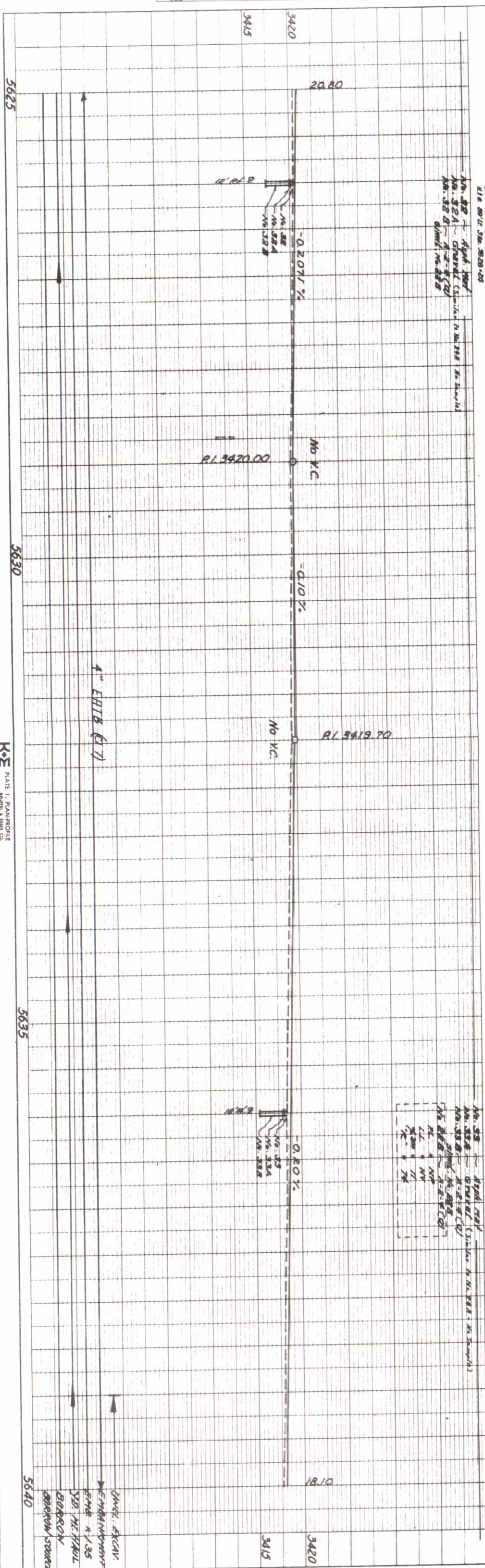
PROJECT NAME	DIVISION	PROJECT NO.	DATE
ROAD	ROAD	RF 034-3(1)	21

PLAN

NOTE BOOK
30976
30977
30978

PROFILE

NOTE BOOK
30976
30977
30978



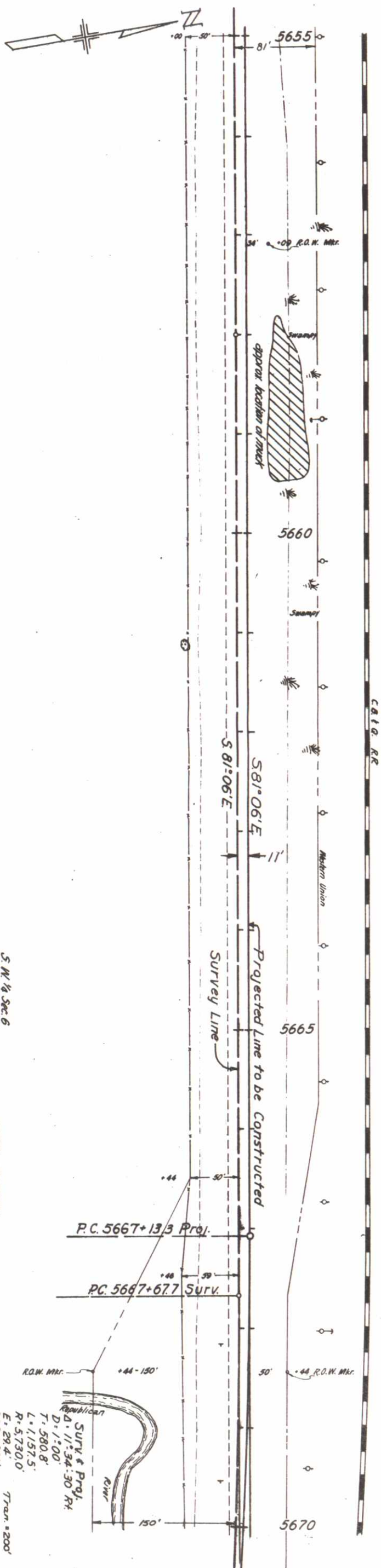
NE 1/4 Sec. 1
T. 1 N., R. 43 W.

AS CONSTRUCTED
REVISED DATE MARCH 9, 1971

PROJECT NO.	DIVISION	PROJECT NO.	SHEET NO.
RF 034-3(11)			22

AS CONSTRUCTED
REVISED DATE MARCH 9, 1971

α	(ρ_1, ρ_2)	ρ_1	ρ_2	ρ_1/ρ_2
0.1	0.15/0.15	0.15	0.15	1.00
0.2	0.25/0.25	0.25	0.25	1.00
0.3	0.35/0.35	0.35	0.35	1.00
0.4	0.45/0.45	0.45	0.45	1.00
0.5	0.55/0.55	0.55	0.55	1.00
0.6	0.65/0.65	0.65	0.65	1.00
0.7	0.75/0.75	0.75	0.75	1.00
0.8	0.85/0.85	0.85	0.85	1.00
0.9	0.95/0.95	0.95	0.95	1.00
1.0	1.05/1.05	1.05	1.05	1.00



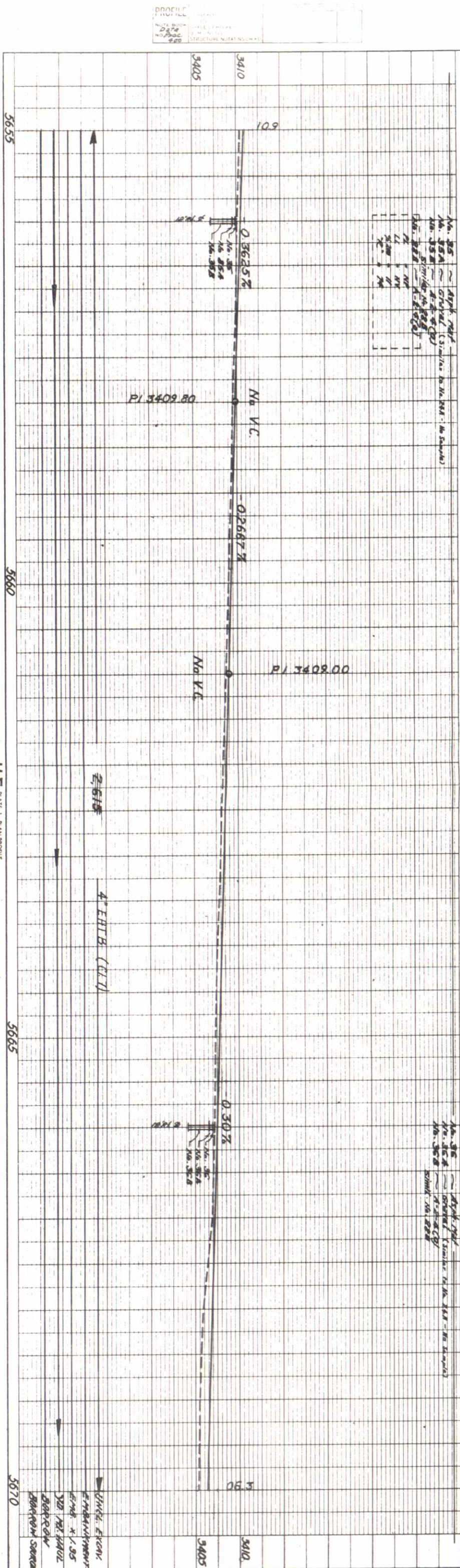
S. W. 1/4 Sec. 6
T. 1 N., R. 42 W.

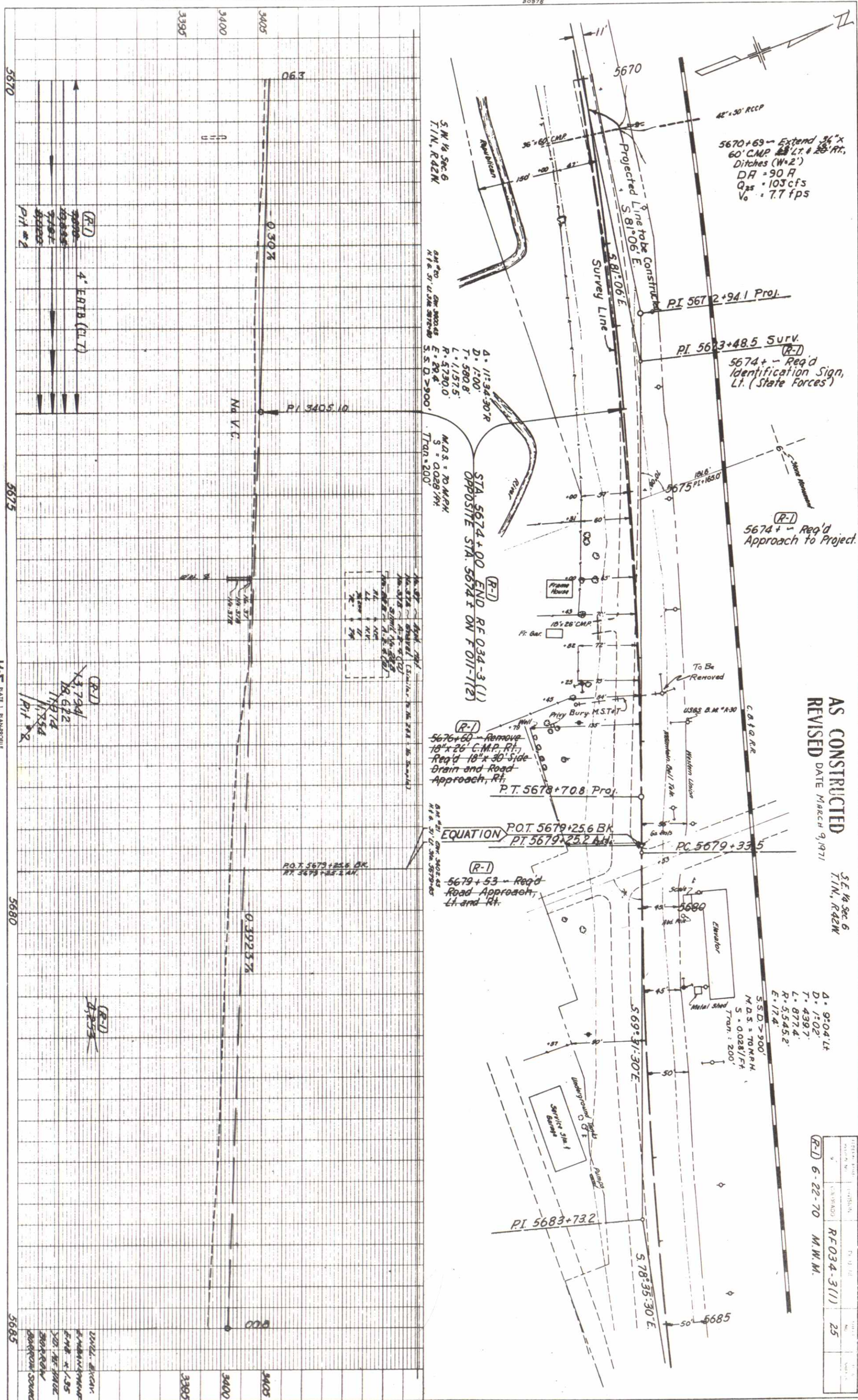
Q. M^o 10 E. H. J. 205. 71
H. & A. 85' L. 314. 3065 + 3.

No. 36	Arch. 194
No. 36A	original (similar to No. 244 - No Samples)
No. 36B	A-2-a (cf)
simil. No. 224	

$E = 29.4'$
 $3.5 D > 900'$
 $W.D. = 70 \text{ M.P.H.}$
 $S = 0.028/\text{ft}$
 $T_{\text{tran.}} = 200$

No.	Age	Sex	Occupation	Mar.	Rel.	Place of Birth	Place of Residence
No. 554	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 555	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 556	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 557	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 558	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 559	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 560	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 561	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 562	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 563	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 564	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 565	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 566	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 567	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 568	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 569	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 570	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 571	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 572	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 573	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 574	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 575	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 576	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 577	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 578	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 579	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 580	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 581	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 582	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 583	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 584	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 585	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 586	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 587	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 588	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 589	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 590	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 591	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 592	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 593	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 594	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 595	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 596	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 597	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 598	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 599	25	F	Farmer	Mar.	Wife	Ill. USA	Ill. USA
No. 600	25	M	Farmer	Mar.	Wife	Ill. USA	Ill. USA



[illegible]

AS CONSTRUCTED
REVISED DATE *MARCH*

S.E. 1/4 Sec. 6
T.1N., R.42W.

[illegible]

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