

STATE DEPARTMENT OF HIGHWAYS

DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. FR 014-2(17)

STATE HIGHWAY NO. 14

WELD COUNTY

TABULATION OF LENGTH & DESIGN DATA

STATION	LIN. FT.	
	ROADWAY	MAJOR STRUCTURE
218+00.31 Begin FR 014-2(17) = 718+00 End FR 014-2(15) = Approx. Sta. 219+08 on S 0024(3) M.P. 143.492	403.13	35.12
222+03.44		
222+38.56		
247+99.97 (Proj.) Bk. — EQUATION 248+00.08 (Proj.) Ah.	2561.41	
265+48.53 (Proj.) Bk. = — EQUATION 265+48.41 (Surv.) Ah.	1748.51	
289+96.95	2448.54	38.10
290+35.05		
7+06~ End FR 014-2(17) = Approx. Sta. 414+99.6 End FC 014-2(2) = Approx. Sta. 414+99.6 on S 0024(3) M.P. 147.316	12,570.95	
TOTALS	19,832.54	73.22
ROADWAY (NET LENGTH) MAJOR STRUCTURE PROJECT GROSS LENGTH	LIN. FT.	MILES
	19,832.54	3.756
	73.22	0.014
19,905.76	3.770	
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	N/A	
MAXIMUM GRADE	5.62%	
MINIMUM S.S.D. HORIZONTAL	>530'	
MINIMUM S.S.D. VERTICAL	530'	
MAXIMUM DESIGN SPEED	60 MPH.	
2009 DESIGN TRAFFIC	DHV = 560 ADT = 5100 % Trucks = 16	

SHEET NO.

3-4

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

AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN

Sta. 417+06 ~ End FR 014-2(17)

= Sta. 414+99.6 End FC 014-2(2)
= Approx. Sta. 414+99.6 on S 0024(3)
M.P. 147.316

Sta. 218+00.31 ~ Begin FR 014-2(17)

= Sta. 718+00 ~ End FR 014-2(15)
= Approx. Sta. 219+08 on S 0024(3)
M.P. 143.492

K & M Borrow Pit
(Available Source)

To Cheyenne, WY

To Denver

To Windsor

To Ault

To Timnath

To Denver

To Windsor

To Ault

To Timnath

To Denver

To Windsor

To Ault

To Timnath

To Denver

To Windsor

To Ault

To Timnath

To Denver

INDEX OF SHEETS

SHEET NO.

3-4

5-7

8-10

11

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15

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17

18

19

20-23

24

25-38

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40

41-42

43-44

45-46

47

TITLE SHEET

STANDARD PLANS LIST

TYPICAL SECTIONS, GENERAL NOTES, SEEDING PLAN, DETAILS

DITCH CHANGE

STRUCTURE OF APPROXIMATE QUANTITIES

STRUCTURE QUANTITIES

DELINERATOR TABULATION, FENCING TABULATION

SUMMARY OF EARTHWORK QUANTITIES, SURFACING PLAN

CBC STRUCTURE B-17-DQ, STA. 222+

CBC STRUCTURE B-17-DQ, STA. 222+

CBC, STA. 148+

CBC, STA. 406+

K & M BORROW PIT (AVAILABLE SOURCE)

DETAILS OF TRAFFIC DETECTOR LOOPS

DETAIL OF INTERSECTION, STA. 248+00 (SH 257)

WETLAND REPLACEMENT PLAN

PLAN AND PROFILE SHEETS

SAND BARREL IMPACT ATTENUATORS

TABULATION OF SIGNING QUANTITIES

TABULATION OF SIGNS

CLASS III SIGNS SHEET ALUMINUM PANELS

BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS

SCHEDULE OF CONSTRUCTION TRAFFIC SIGNS, TRAFFIC CONTROL PLAN,

ADVANCE CONSTRUCTION SIGNING AND APPROVED DETOUR LOCATIONS

NEW AND REVISED STANDARDS

GUARD RAIL TYPE 4 CONCRETE BARRIER

(2-18-83)

9 SHEETS

FIELD LABORATORY - CLASS 2 (5-25-88)

1 SHEET

DIVISION OF HIGHWAYS

AS CONSTRUCTED INFORMATION

CONTRACTOR *Western Mills (Per Steelman)*

ENGINEER *Dwain Leonard*

(Project & Resident)

PROJECT STARTED *Sept. 11, 1997*

PROJECT COMPLETED *Jul. 24, 1999*

AS CONSTRUCTED PLANS *APPROVED*

APPROVED *Per E. R.*

TITLE *10/19/99*

DATE

88052

G.R.R./Dist 4

APPROVED:

Dwain Leonard

Asst. CHIEF ENGINEER

3-27-99

DATE

SCALE IN MILES

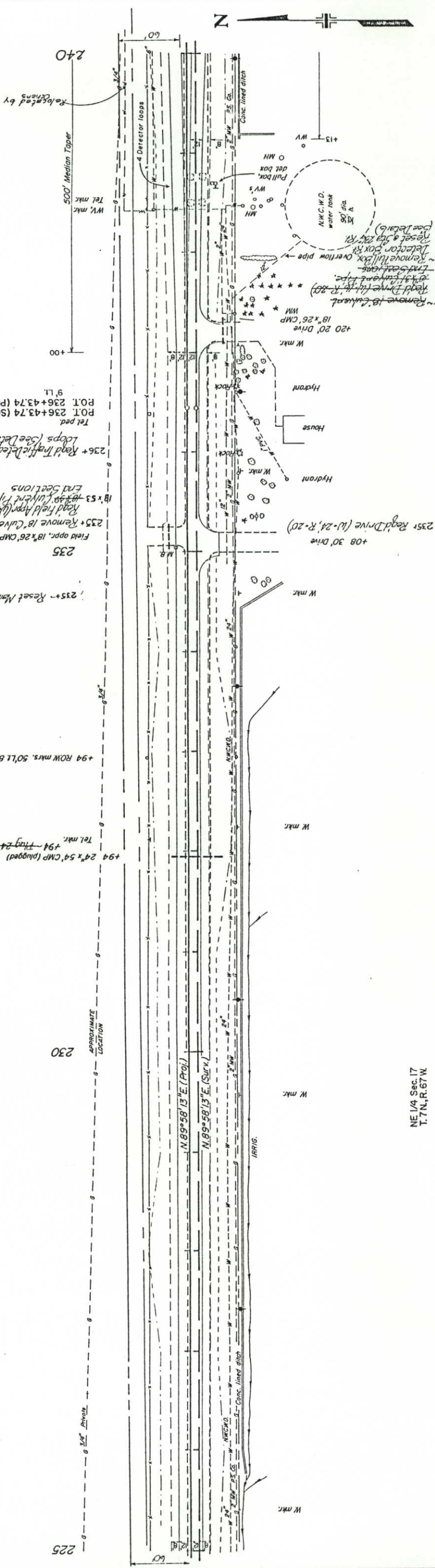
SCALE IN KILOMETRES

AS CONSTRUCTED		DIVISION		PROJ. NO.		SHEET NO.	
NO REVISIONS		VIII		FR 014-2(17)		26	
REVISED 7-24-70		C.O.D.					
VOID							

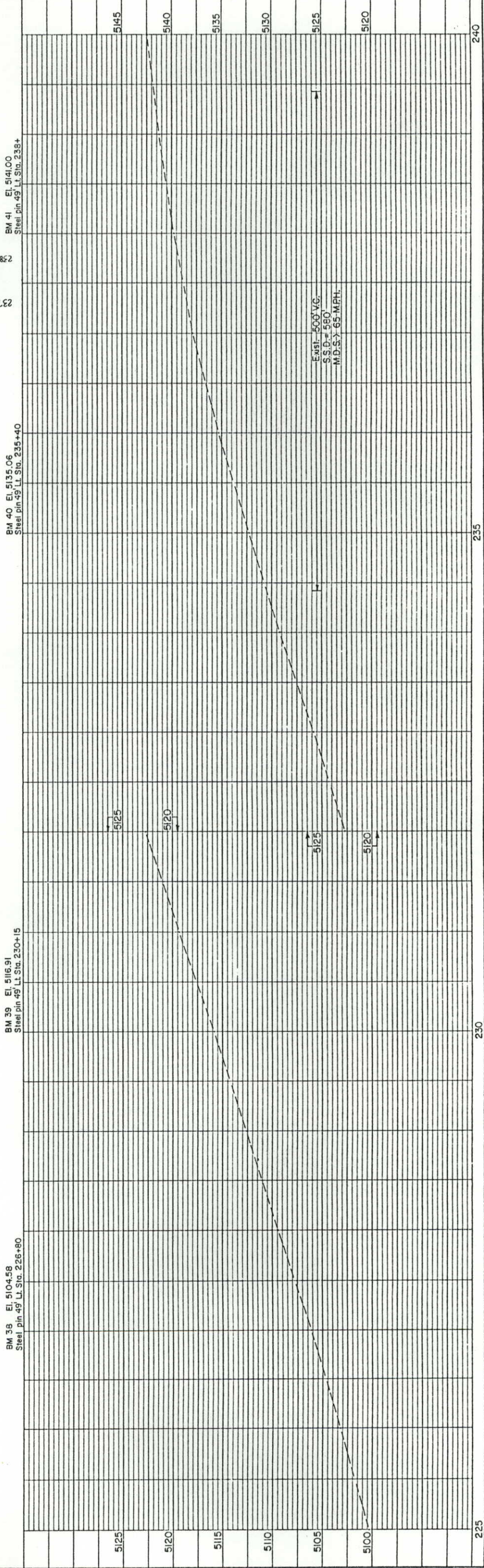
SE 1/4 Sec 8
T.7N., R.67W.

+94 24"x54" CMP (plugged)
Tel. mkr.
+94 Plug 24" Culvert
+94 ROW mks. 50' Lt. B 40' Rt.

235+ Reset Mailbox
235+ Remove 18" Culvert
Field oppn. 18"x26" CMP
235+ Regd. Field Appn. (43' R-20)
18"x53" 18"x59" Culvert Pipe
END Sections
236+ Regd. In Traffic Detector
Loops (See Details)
Tel. ped.
P.O.T. 236+43.74 (Surv.)
P.O.T. 236+43.74 (Proj.)
9' Lt.



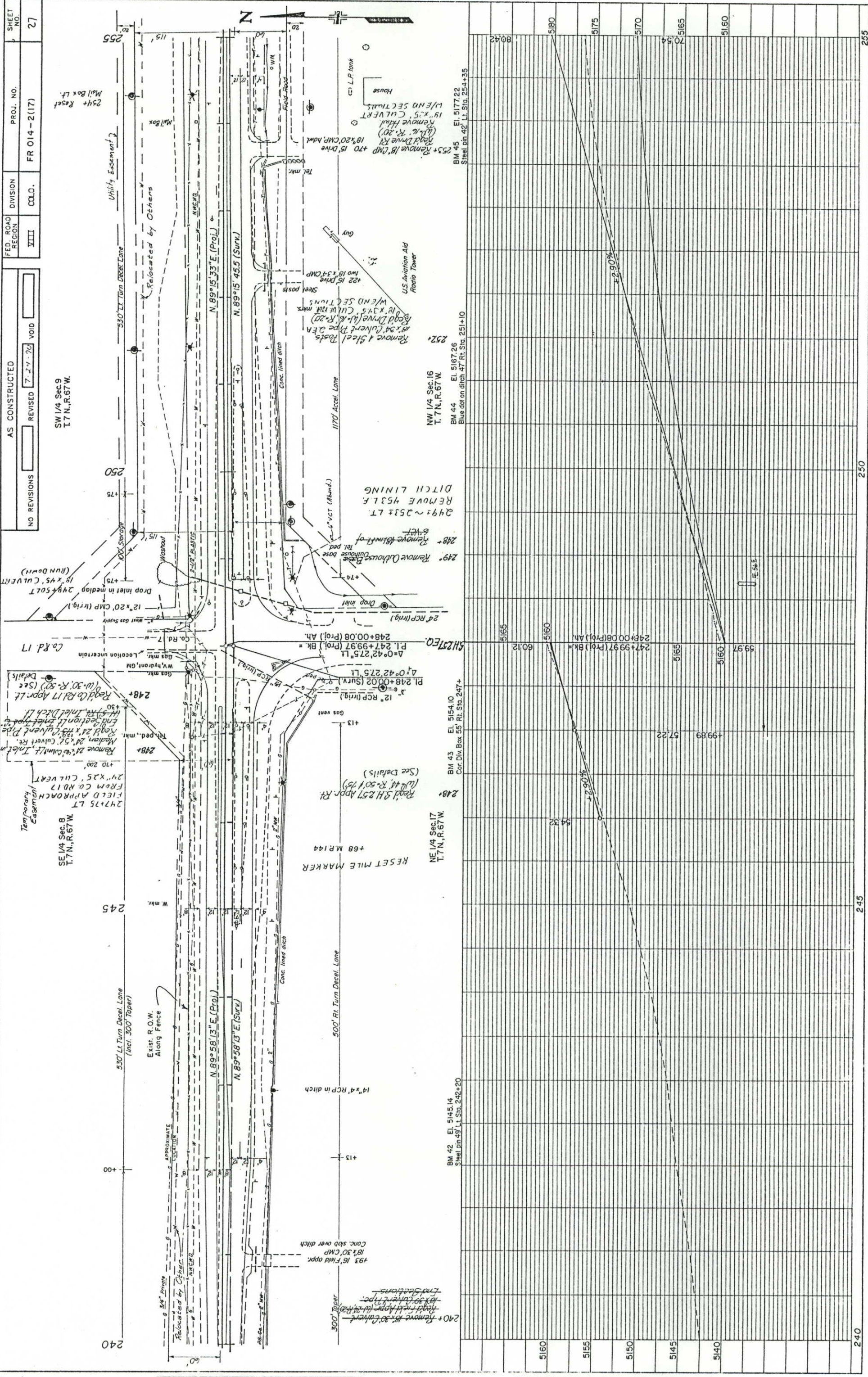
NE 1/4 Sec 17
T.7N., R.67W.

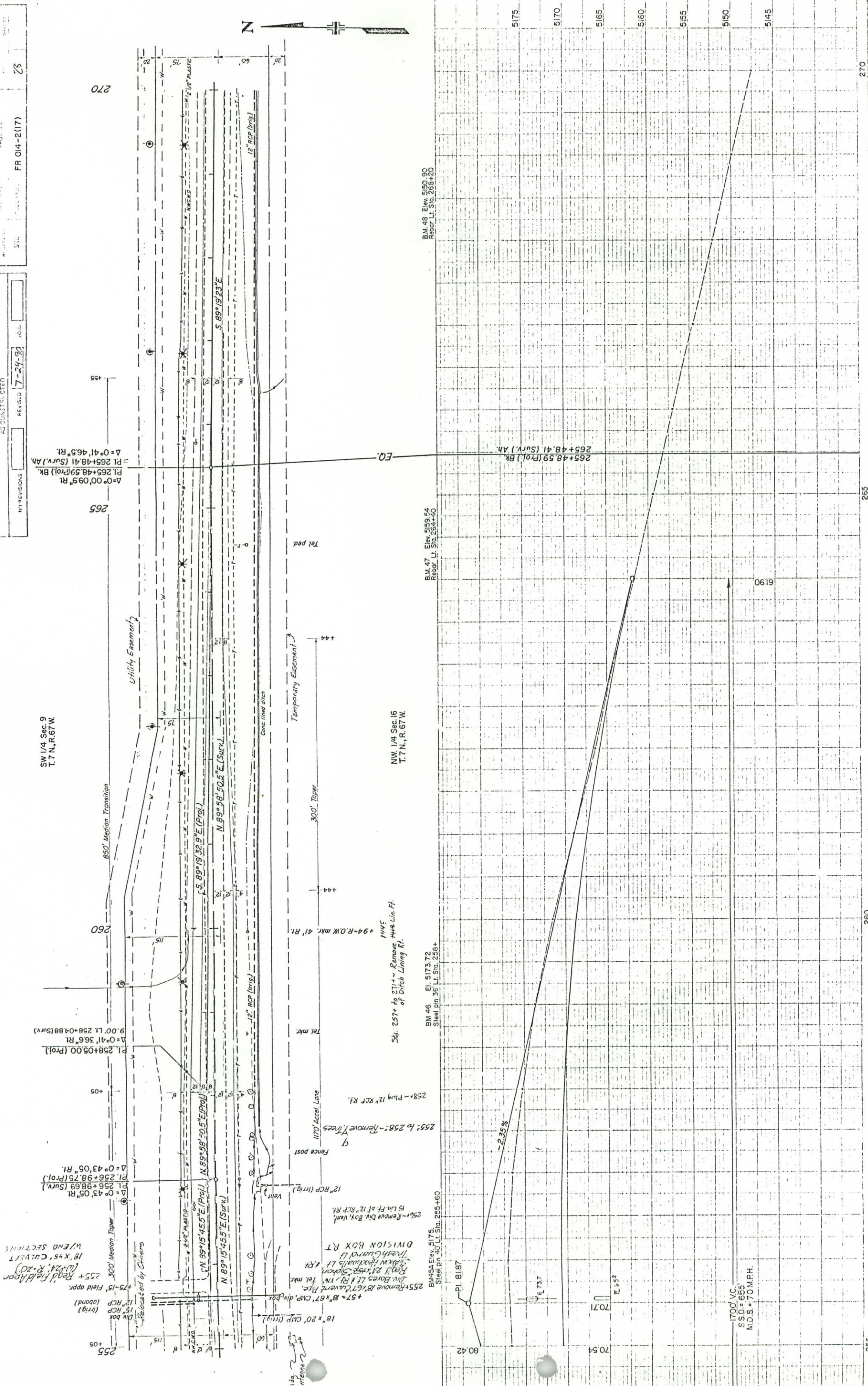


PLAN	DATE	BY
SURVEYED		
NOTED		
RT. OF WAY CHECKED		
NOTE BOOK		
RT. OF WAY CHECKED		

PROFILE	DATE	BY
SURVEYED		
NOTED		
RT. OF WAY CHECKED		
NOTE BOOK		
RT. OF WAY CHECKED		

PROF LLE	SURVEYED	BY	DATE
NOTE BOOK	W. M. S. NO. 10		
	ALLEGANT CREEK		





NO REVISIONS

REVISED 7-24-90

VOID

AS CONSTRUCTED

DATE

BY

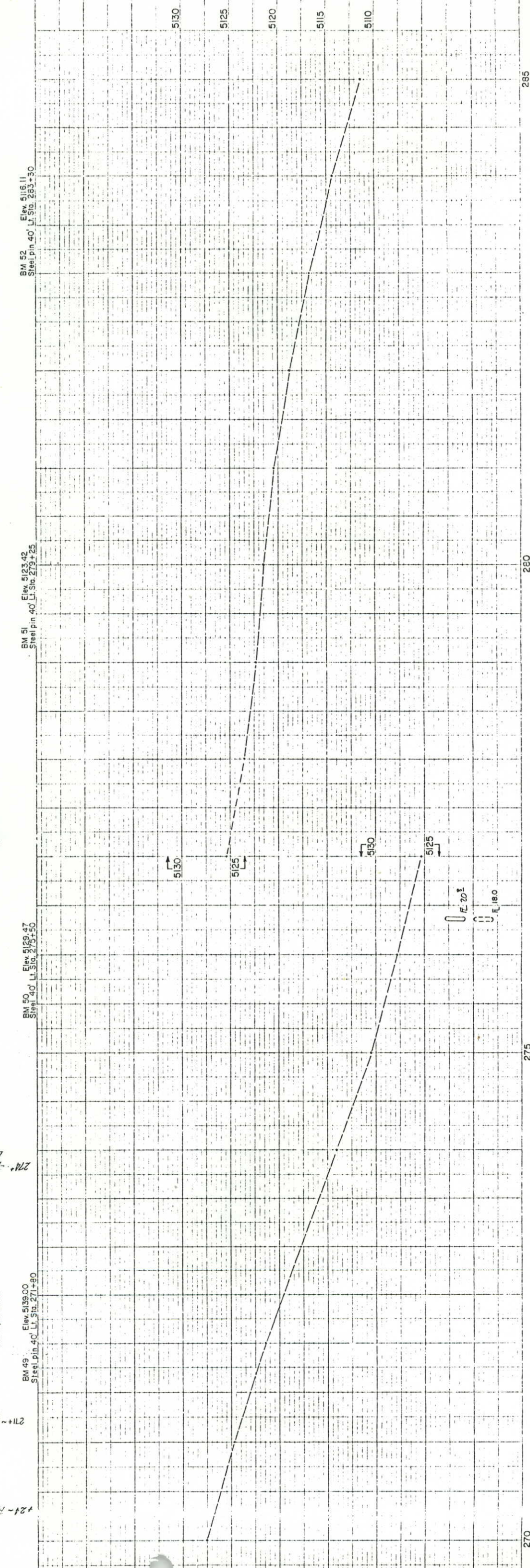
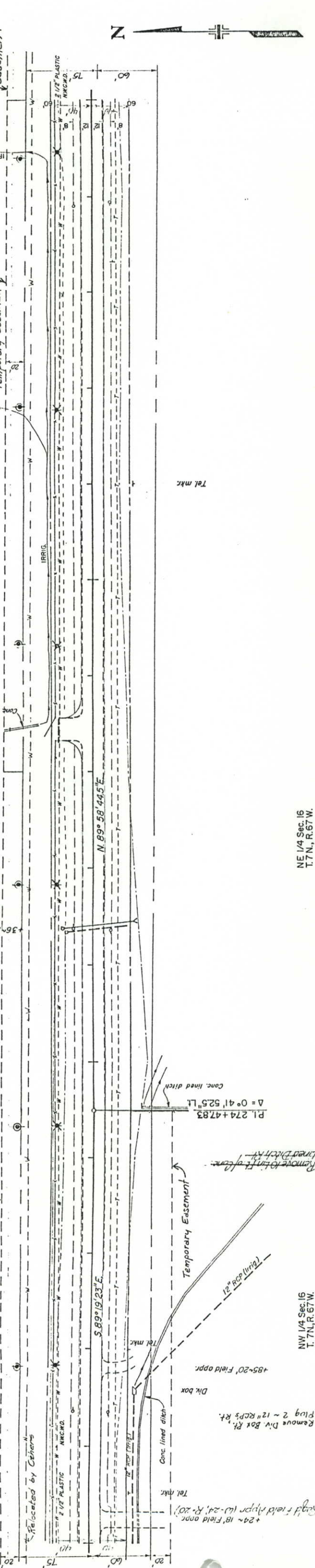
FR 014-2(17)

29

SE 1/4 Sec. 9
T. 7N, R. 67W.
D.A. = 52 Acres
Q₂₅ = 44 C.F.S.
D.H.W. = 5122.0
A.H.W. = 5125.0
Q₁₀₀ = 64 C.F.S.
H.W. = Overlaps ditch
+44'-24" Field oppr. BW gate
18"x25" CMP
Conc lined ditch
278+ Remove 18"x25" Culvert Pipe
Slant of Conc Lined Ditch
18"x41" Field oppr. (W-24, R-20)
18"x41" Field oppr. (W-24, R-20)
End Sections

276+ Remove 24"x64" Culvert Pipe
Inlet Lt. 35'
Read Section Rt. Inlet Type
End Section Rt. Inlet Type
Ditch (H-5) Lt.
+36'-24"x64" CMP, drop inlet
Skew 85° 31' Rt.
SE 1/4 Sec. 9
T. 7N, R. 67W.

270
+54.7' possible 1/4 cor. on E
Utility Easement
Relocated by Others
275
280
285



BM 52 Elev. 5116.11
Steel pin 40' Lt. Sta. 283+30

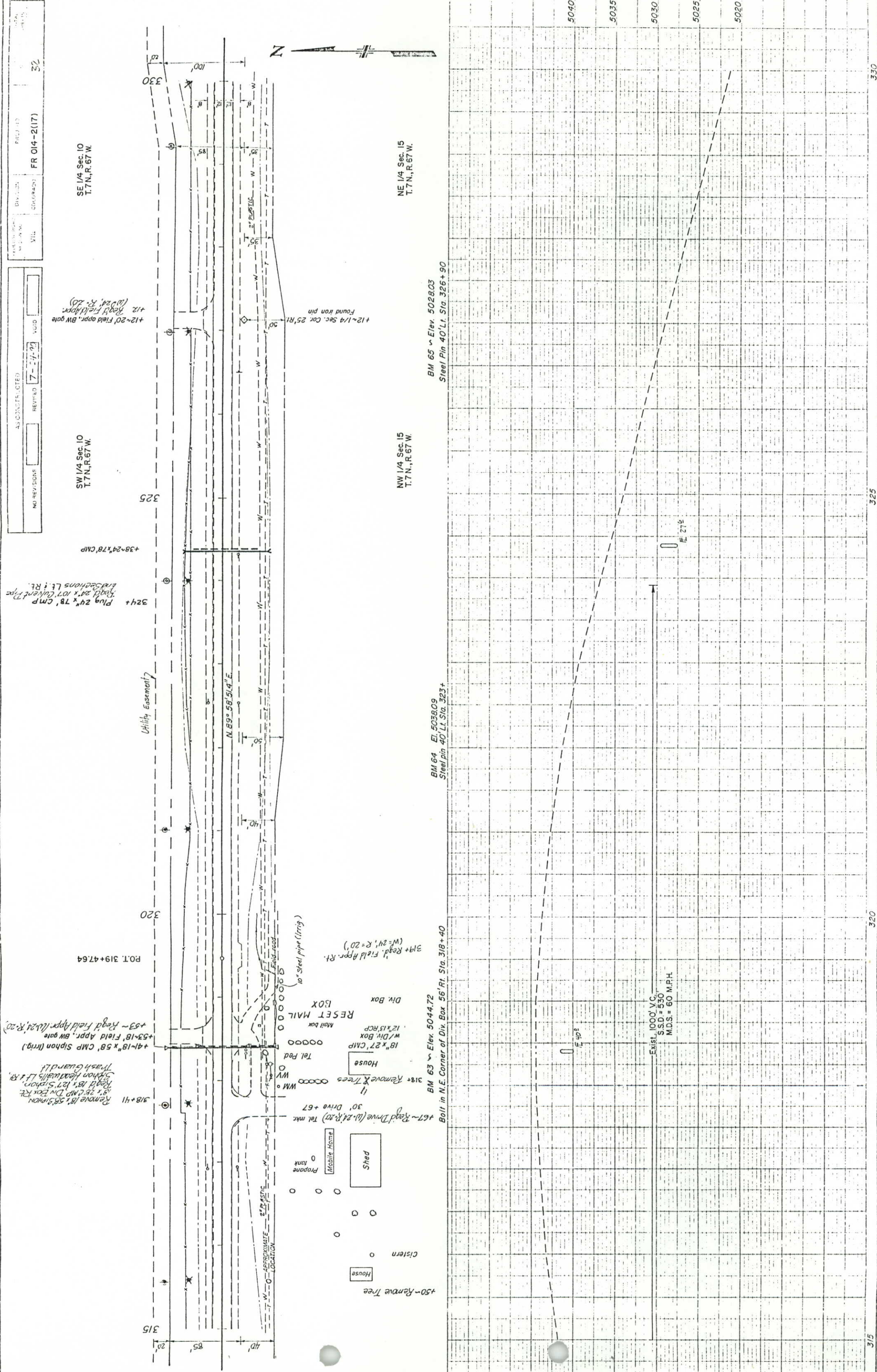
BM 51 Elev. 5123.42
Steel pin 40' Lt. Sta. 279+25

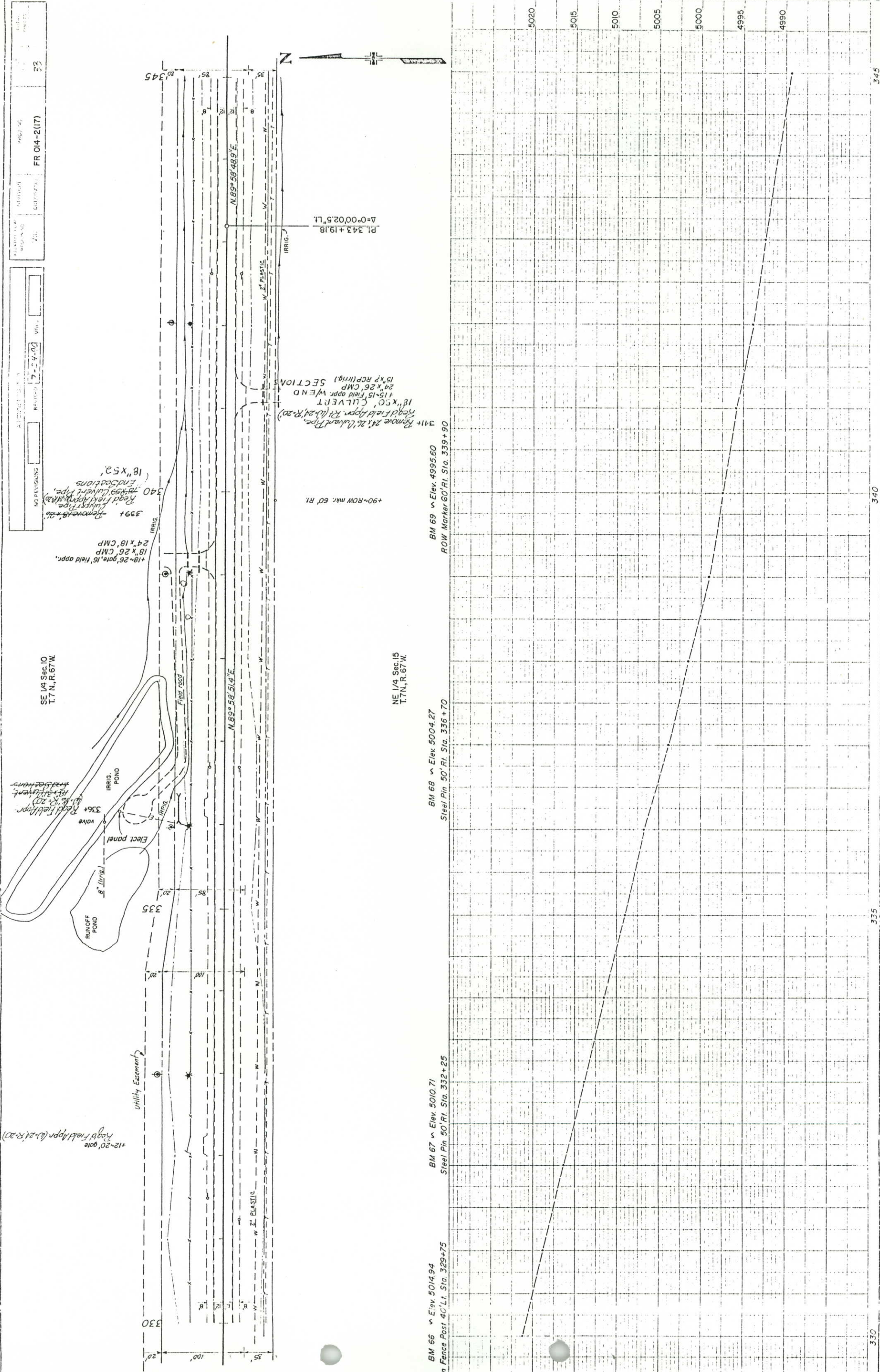
BM 50 Elev. 5129.47
Steel pin 40' Lt. Sta. 275+50

BM 49 Elev. 5139.00
Steel pin 40' Lt. Sta. 271+80

NE 1/4 Sec. 16
T. 7N, R. 67W.

NW 1/4 Sec. 16
T. 7N, R. 67W.





Sta. 343+ to 352+ ~ Reg'd. Detour (See Details)

NO REVISIONS

REVISIONS

7-24-90

VC00

FR 014-2(17)

21

SW 1/4 Sec. II
T. 7N, R. 67W

SE 1/4 Sec. IO
T. 7N, R. 67W

NE 1/4 Sec. IS
T. 7N, R. 67W

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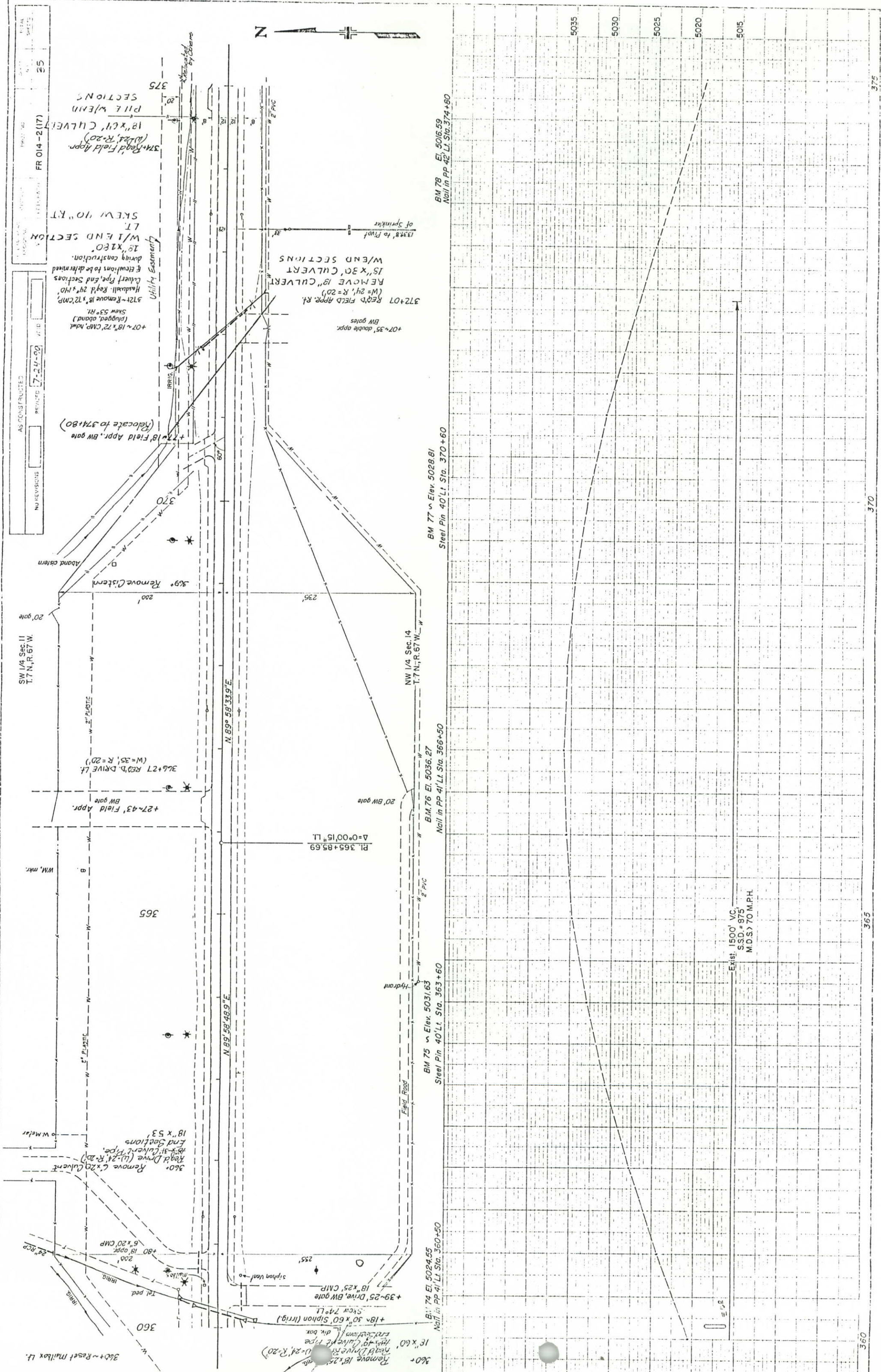
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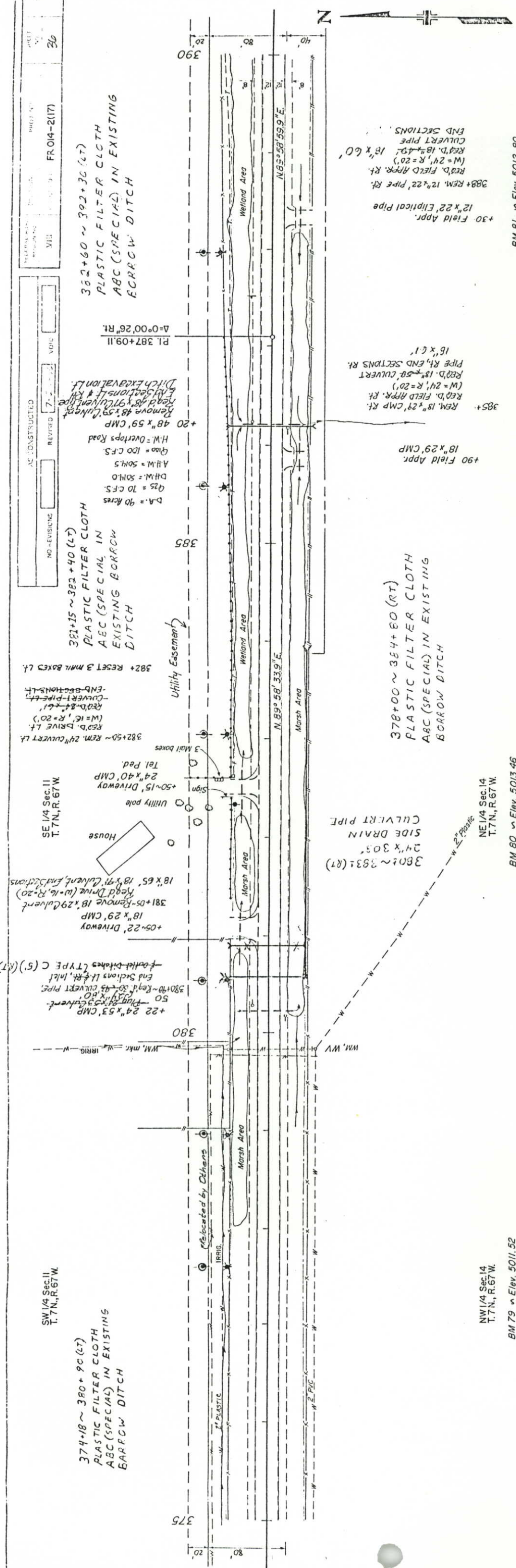
2065



374+18 ~ 380+90 (LT)
PLASTIC FILTER CLOTH
ABC (SPECIAL) IN EXISTING
BARRROW DITCH

381+15 ~ 382+40 (LT)
PLASTIC FILTER CLOTH
ABC (SPECIAL) IN
EXISTING BARRROW
DITCH

382+60 ~ 392+30 (LT)
PLASTIC FILTER CLOTH
ABC (SPECIAL) IN EXISTING
BARRROW DITCH



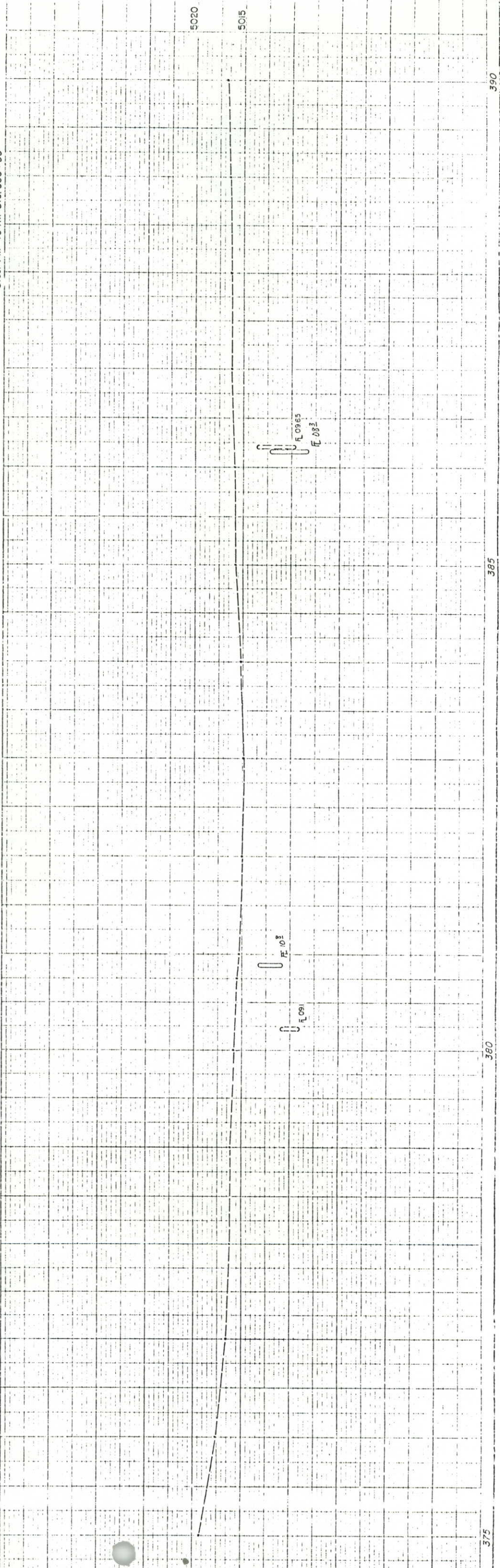
NW 1/4 Sec. 14
T. 7N., R. 67W.

BM 79 ~ Elev. 5011.52
Steel Pin 40' Lt. Sta. 377+40

NE 1/4 Sec. 14
T. 7N., R. 67W.

BM 80 ~ Elev. 5013.46
Nail in PP 50' Lt. Sta. 382+30

BM 81 ~ Elev. 5012.80
Steel Pin 40' Lt. Sta. 388+50



REMOVE CMP/NIP
End Sections 36"x92"
Road 36"x94" Culvert
+03~30" CMP w/ 6" DIP
running through

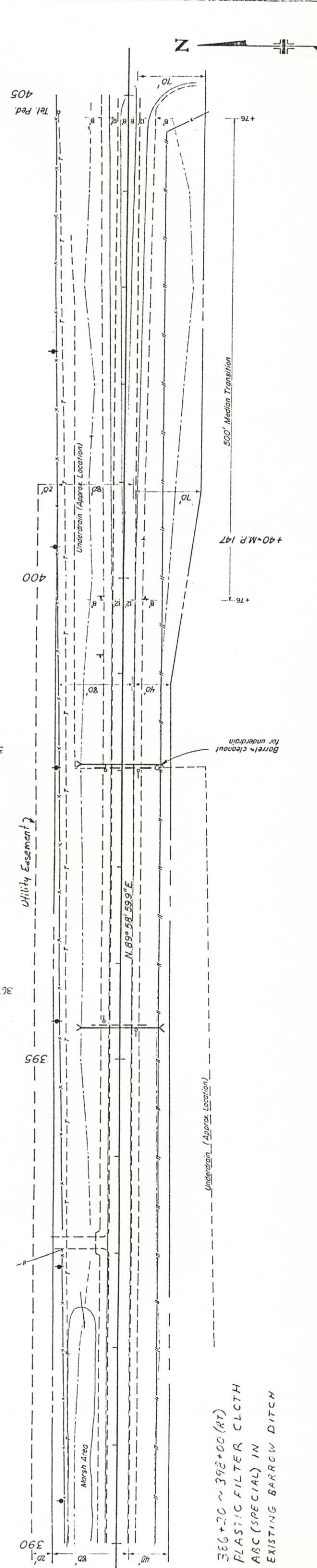
Remove 24"x58" CMP
Road 36"x94" Culvert
+03~30" CMP w/ 6" DIP
running through

Remove 24"x58" CMP
Road 36"x94" Culvert
+03~30" CMP w/ 6" DIP
running through

Remove 24"x58" CMP
Road 36"x94" Culvert
+03~30" CMP w/ 6" DIP
running through

393+ R.D.D. FIELD APPR. LT.
(W=24', R=20')
18"x39" Culvert
End Sections
+10~12' Field appr.

Marsh Area



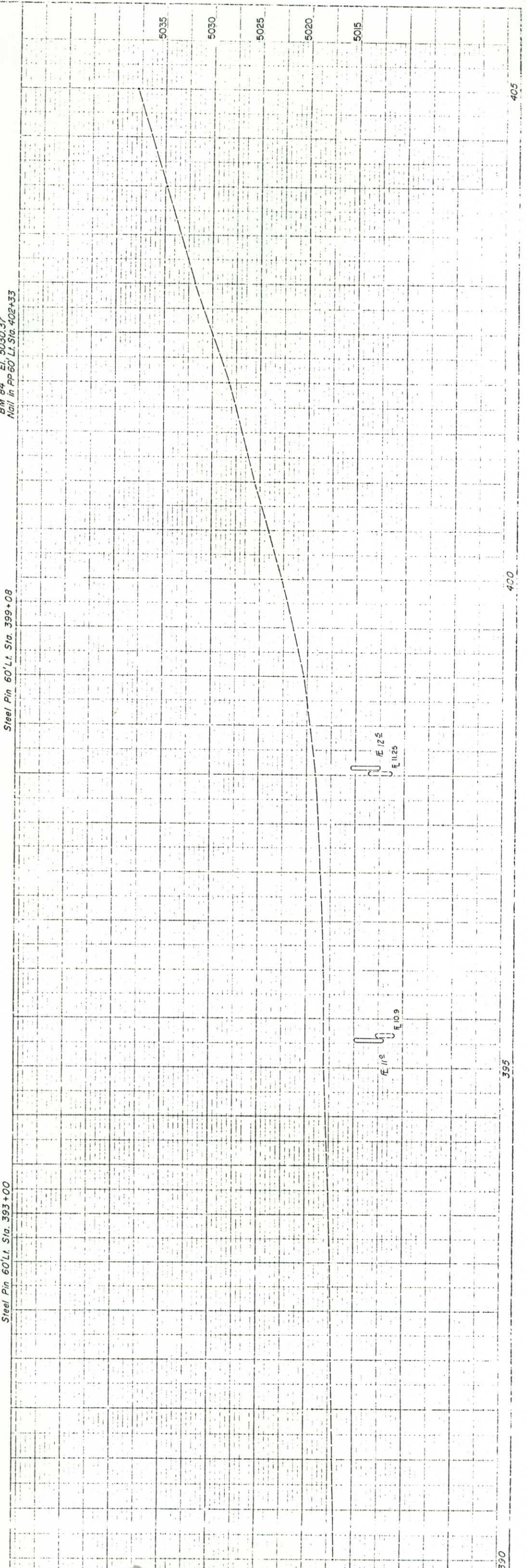
386+20 ~ 392+00 (RT)
PLASTIC FILTER CLOTH
ABC (SPECIAL) IN
EXISTING BARROW DITCH

NE 1/4 Sec. 14
T. 7 N., R. 67 W.

BM 82 ~ Elev. 5017.12
Steel Pin 60" Lt. Sta. 393+00

BM 83 ~ Elev. 5018.90
Steel Pin 60" Lt. Sta. 399+08

BM 84 El. 5030.37
Nail in PP 60" Lt. Sta. 402+33



Marsh Area

DETOUR #4 REG'D. LT. 401: to 410:

405 Sink hole
405' Remove Barricade
405' Road Ditch Rider Rd.
(W/Lt. R-20)
30'x51' Timber bridge 1952
406' Remove Str. B-17-D
Reg'd. 18'x8'x102' (C.B. Bedding)
(W/Lt. R-20)
407' Reg'd. Co. Rd. 23A App.
(W/Lt. R-50)
409' ~ Resel Mailbox Lt.
(2)
409' ~ Reg'd Rd Appr.
P.O.T. 410+00.07

412+50 EXTEND EXISTING
24"x2" RCP
15' LT AND 15' RT
RESET END SECTIONS

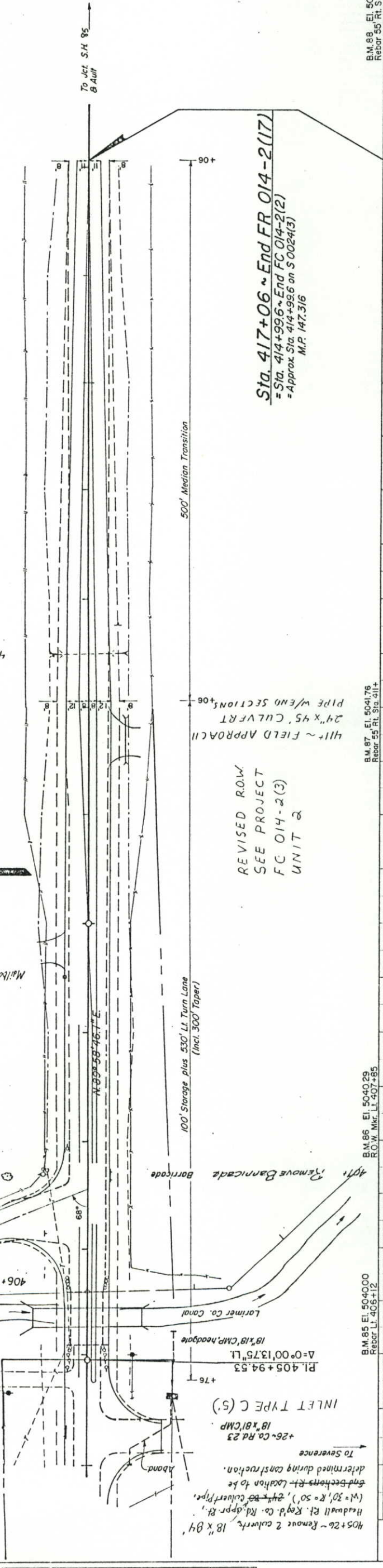


NO REVISIONS	AS CONSTRUCTED	REVISED	7-27-70	VOID
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FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLO.	FR 014-2(17)	38	

PLAN	DATE	BY
NOTE BOOK	ALIGNED CHECKED	RI. OF MAY CHECKED
NO.	DATE	BY

PROFILE	DATE	BY
NOTE BOOK	ALIGNED CHECKED	RI. OF MAY CHECKED
NO.	DATE	BY



Sta. 417+06 ~ End FR 014-2(17)
= Sta. 414+996 ~ End FC 014-2(2)
= Approx. Sta. 414+99.6 on S0024(3)
M.P. 147.316

REVISED ROW
SEE PROJECT
FC 014-2(3)
UNIT 2

B.M. 85 El. 5040.00
Rebar Lt. 405+12

B.M. 86 El. 5040.29
R.O.W. Mtr. Lt. 407+85

B.M. 87 El. 5041.76
Rebar 55' Rt. Sta. 411+

B.M. 88 El. 5046.66
Rebar 55' Rt. Sta. 418+

