

TYPE OF WORK	
1 RIGHT OF WAY	8 SHOULDER WIDENING
2 GRADE AND DRAIN	9 SHOULDER STABILIZATION
3 PAVE	10 BRIDGE PRESERVATION-DECK
4 EROSION CONTROL	11 BRIDGE OR CULVERT PRESERVATION-OTHER
5 PAVEMENT WIDENING ONLY	12 BRIDGE OR CULVERT REPLACEMENT
6 PAVEMENT PRESERVATION ONLY	13 SAFETY
7 PAVEMENT PRESERVATION WITH WIDENING	14 MISCELLANEOUS

Subject to change by final design and review.

Points of access shown on these plans are suggestions only.

Final determination of access is to be made at time of right-of-way.

Purchase with the approval of the district engineer.

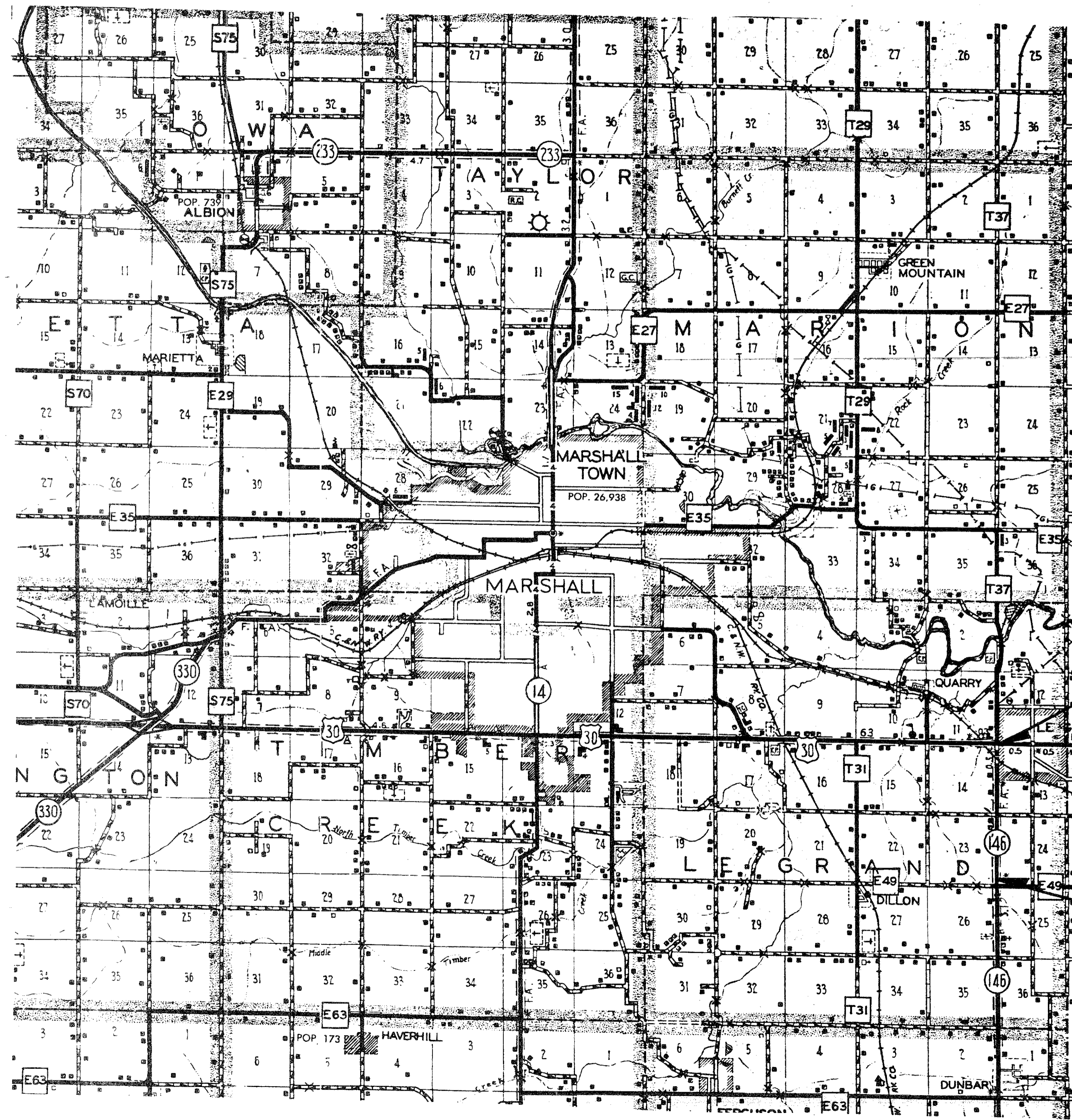
IOWA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION PRELIMINARY PLANS

STATE CONTROL SECTION NO.
64-1400

R.O.W. PROJECT NUMBER
FN-146-4(11)-21-64

PIN NUMBER
82-64050-1

DESIGN DATA	
PROJ. ENGR. <u>R. WEIGEL</u>	DESIGNER IN CHARGE <u>F. BEHNAMI</u>
LOCATION <u>RTE. 146 FROM CO. RD. E-49 N. TO US 30 (2 MI)</u>	
FUNCTION CLASS <u>ARTERIAL CONN.</u>	SERVICE LEVEL <u>C</u> HYDRAULICS FILE NO. _____
1987 AVERAGE DAILY TRAFFIC <u>1855</u> V.P.D.	TRUCKS <u>10 %</u>
2007 AVERAGE DAILY TRAFFIC <u>2395</u> V.P.D.	
DESIGN HOURLY TRAFFIC _____	V.P.H. _____
TERRAIN _____	MAINTAIN TRAFFIC THROUGH PROJECTS ? <u>NO</u>
DETOURS <u>WEST ON CO. ROAD E-63, NORTH ON IOWA 14 AND EAST ON US 30 TO IOWA 146.</u>	



2-6-91
PRINTS FOR R.O.W.
1 set Plastics (Signed) R.O.W.
1 50% copy - Cross Sections
3 Prints - Plan & Profile - District #1
Date Printed 2-11-91

2 Plan Sheets
1 Roll of X-Sections
R.O.W. Needs Tab.

3-9-89
PRINTS FOR R.O.W.
1 set Plastics (Signed) R.O.W.
1 50% copy - Cross Sections
3 Prints - Plan & Profile - District #1
Date Printed 3-10-89

11 Plan Sheets
3 Rolls of X-Section
1 Bridge Structure Plan
1 R.O.W. Structure Plan
R.O.W. Needs Tab.

5-23-89
2 Plan Sheets
4 X-Section Sheets
Needs Tab
5-22-89

STA 546+55
END PROJECT

3-27-90
PRINTS FOR R.O.W.
1 set Plastics (Signed) R.O.W.
1 50% copy - Cross Sections
3 Prints - Plan & Profile - District #1
Date Printed 3-27-90

9 Plan Sheets
STA 444+50
BEGIN PROJECT

Date Assigned to Design Section 11-25-87

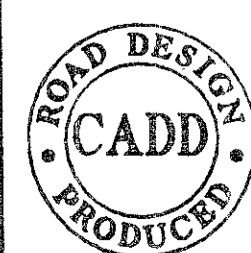
PRODUCTION SCHEDULE		
EVENT	Proposed Date	Completed Date
D-1	Survey	9-04-87
D-2	Field Exam	5-06-88
D-3	To Prelim. Culverts	7-08-88
D-4	Soils	2-02-89
D-5	To Right of Way	3-09-89
D-6	Grade	
D-7	Pave	
D-8	Reconstruction	2-18-92
L-1	Grade	
L-2	Pave	
L-3	Reconstruction	

PRE-FIELD EXAM SUBMITTALS	Date	
	Sent	Returned
Pavement Determination		
To Soils (Preliminary)		
To Culverts (Preliminary)		
Methods (Intersection)		
Methods (Interchange)		
FHWA (Interchange)		
To Field Exam Engineer		
Pre F.E. Access Submittal		
Field Exam Held (D-2)		

RECEIVED
FEB 14 1991
IOWA DEPT. OF TRANSPORTATION
RESIDENCY 11 OFFICE

PRE-ROW SUBMITTALS	Date	
	Sent	Returned
Field Exam To District		
Field Exam To FHWA		
County Resolution		
Additional Survey Required		
Detour Pavement Determination		
To Preliminary Bridge (D-3)		
To Soils (D-4)		
To R.O.W. & Utilities (D-5)		
Access Submittal		
Design Hearing Held		
Design Hearing Approved		

Additional Information:
TOTAL OF 153,057 CU.YD. BORROW.



ACCESS CONTROL MINUTES AND SYMBOLS

IOWA DEPARTMENT OF TRANSPORTATION
Office of Maintenance
239-1373

R/W
J. Sadowski

TO OFFICE: Right of Way DATE: June 13, 1989
ATTENTION: Robert L. North REF. NO: Marshall County
FROM: William E. Zitterich RRP-146-4(8)--48-64
OFFICE: Office of Maintenance R/W FN-146-4(11)--21-64
SUBJECT: Final Access Review

PROJECT LOCATION AND DESCRIPTION


The above referenced project involves the segment of Iowa 146 described as from County road E-49 (station 442+59) north to the intersection of U.S. 30 (station 546+77) in Le Grand.

Existing Iowa 146 will be reconstructed to provide for a 24 ft. paved roadway with 8 ft. wide shoulders. A grade separation will be constructed at the intersection of the Chicago North Western railroad located at station 536+42.

ACCESS COMMENTS


In consideration of the functional classification of Iowa 146, type of project proposed, average daily traffic and continuity of system, it is recommended that access rights not be acquired as a part of this improvement. Entrances will be allowed in accordance with requirements established for Priority VI highways (old Arterial Connector requirements).

William E. Zitterich
Maintenance Services Engineer


Larry R. Meintz
Maintenance Services Supervisor

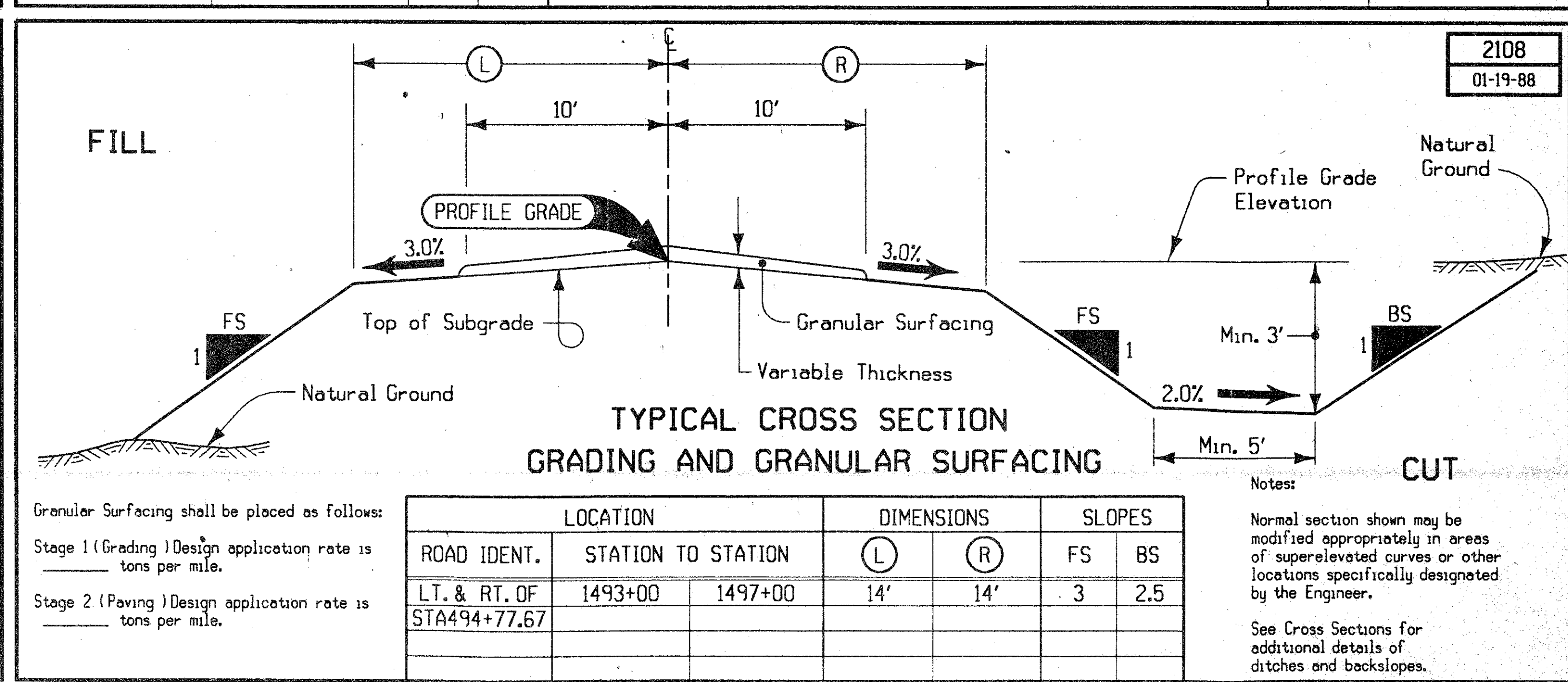
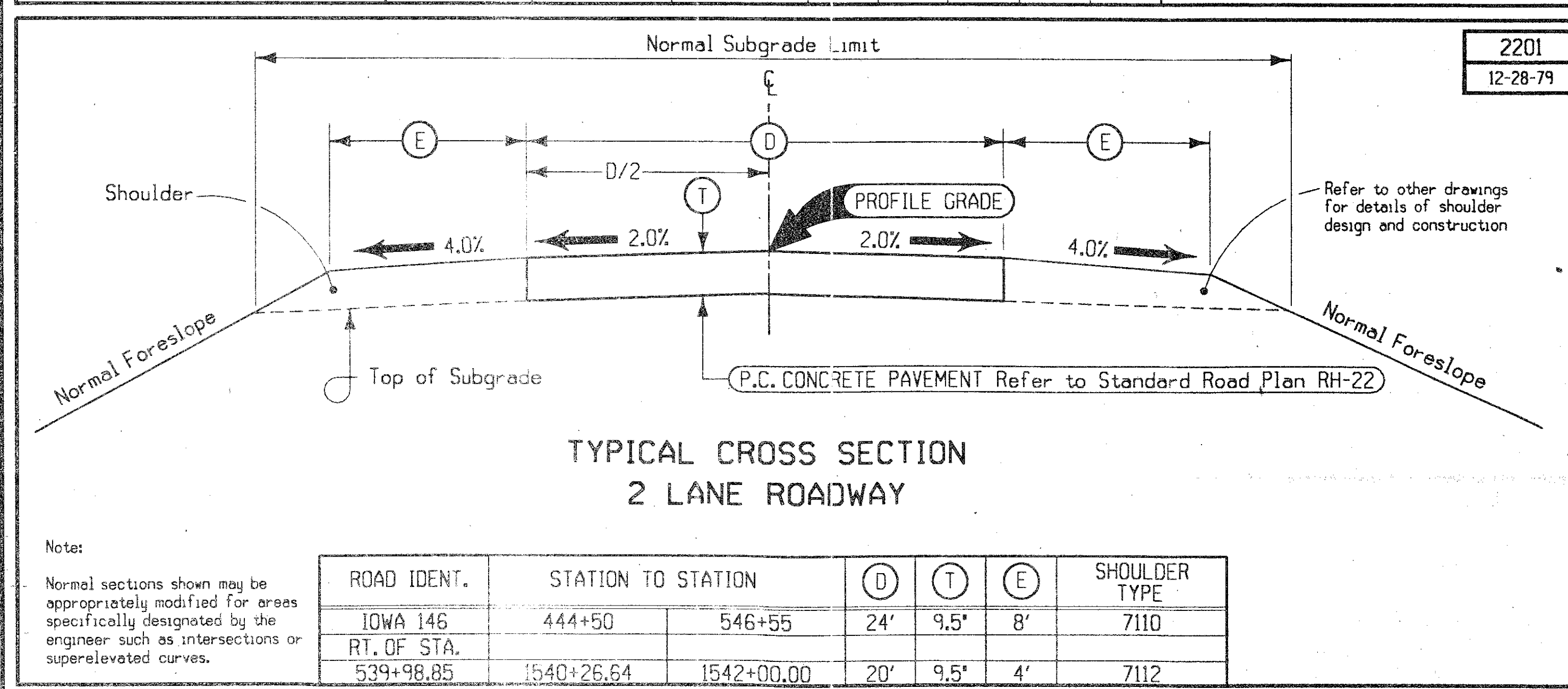
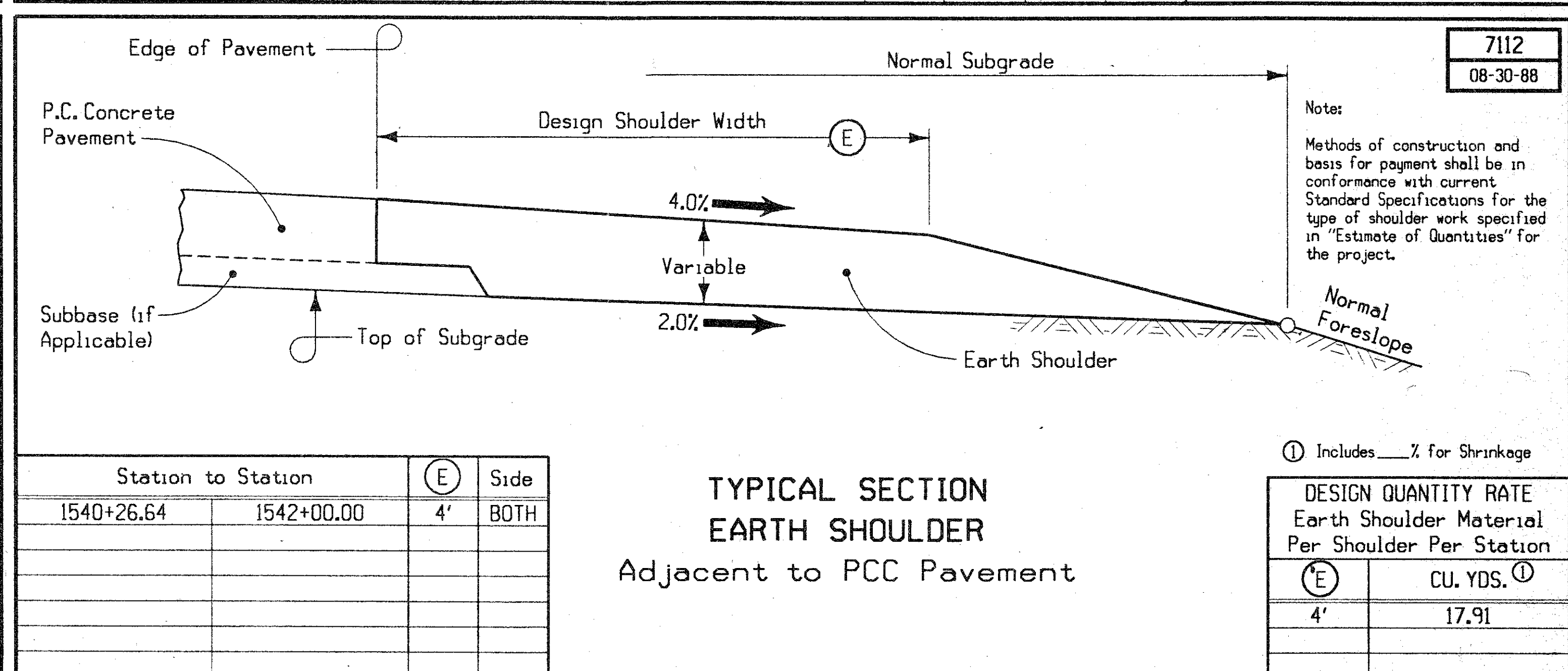
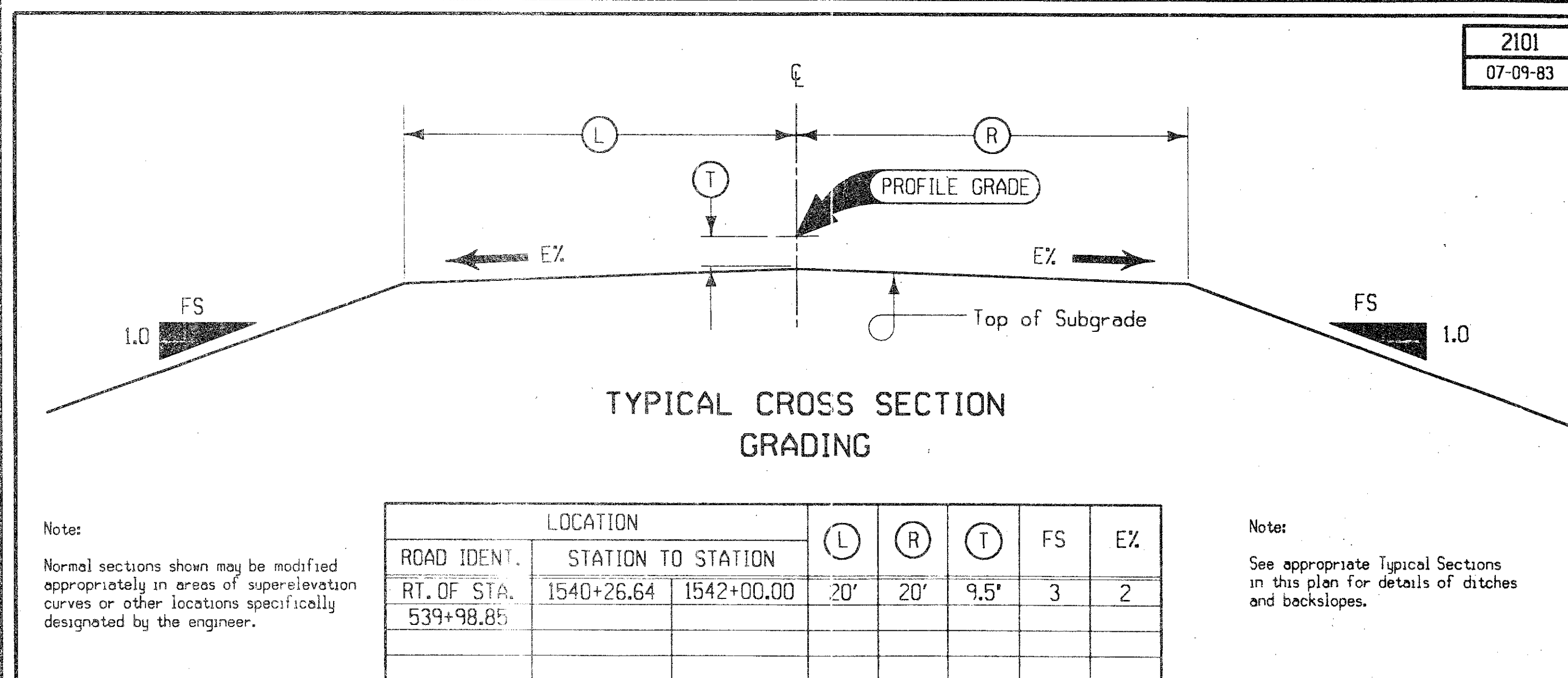
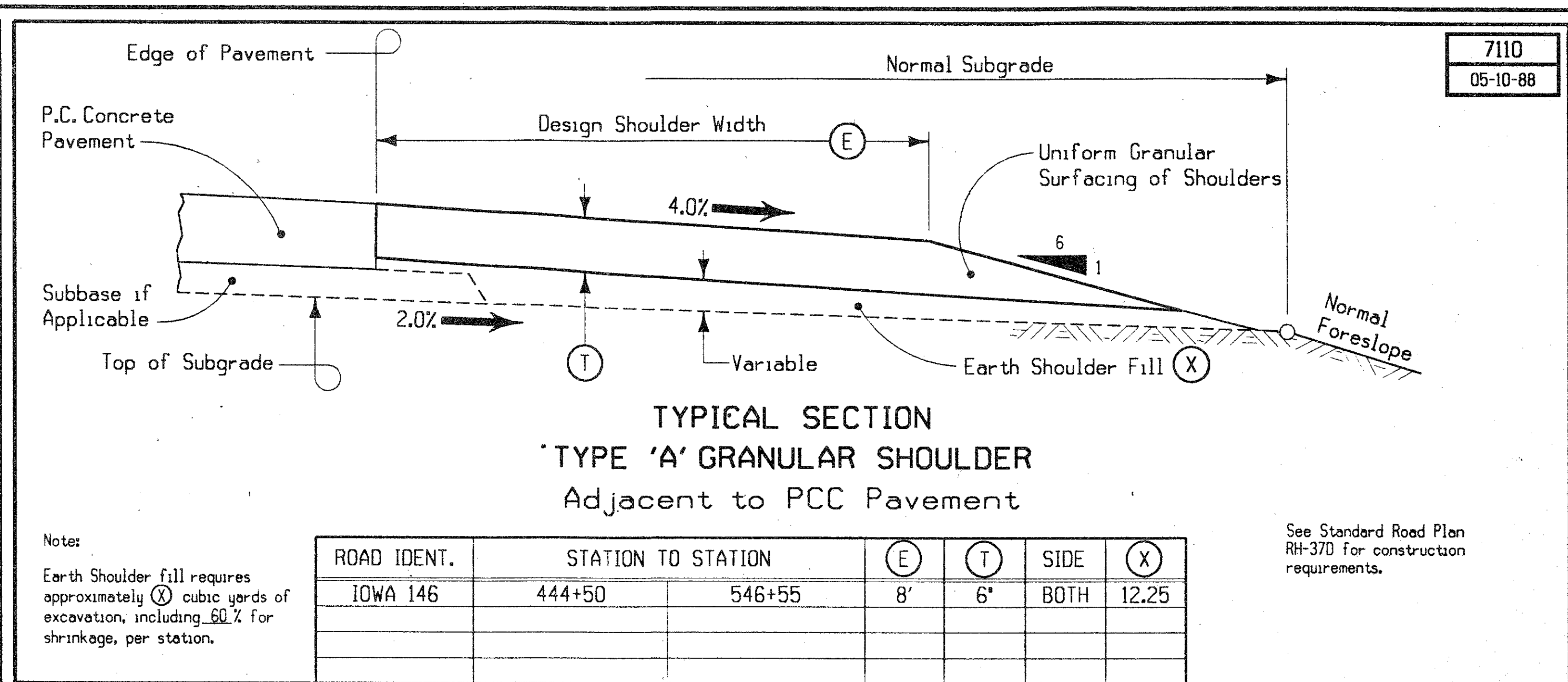
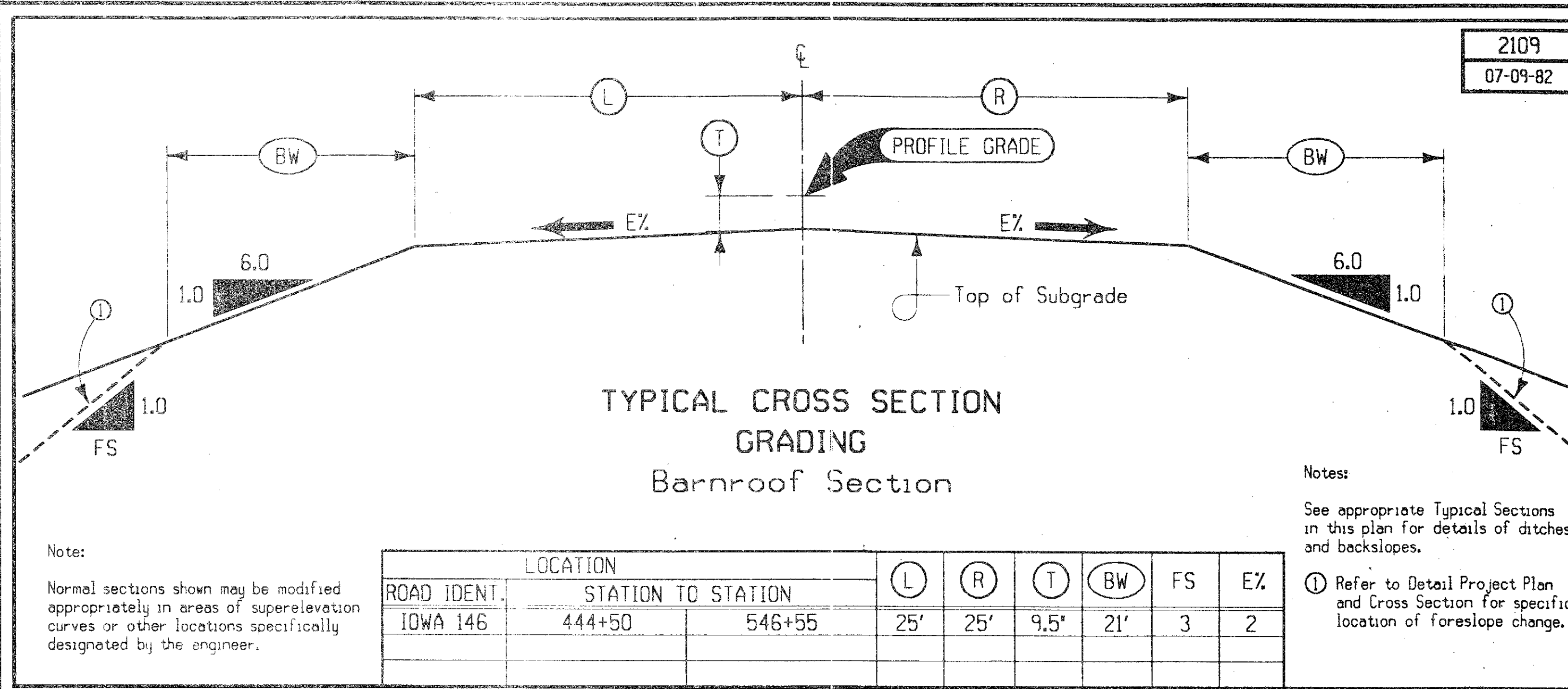
WEZ:lrh
cc: Leland D. Smithson
Kenneth M. Meeks
George F. Sisson

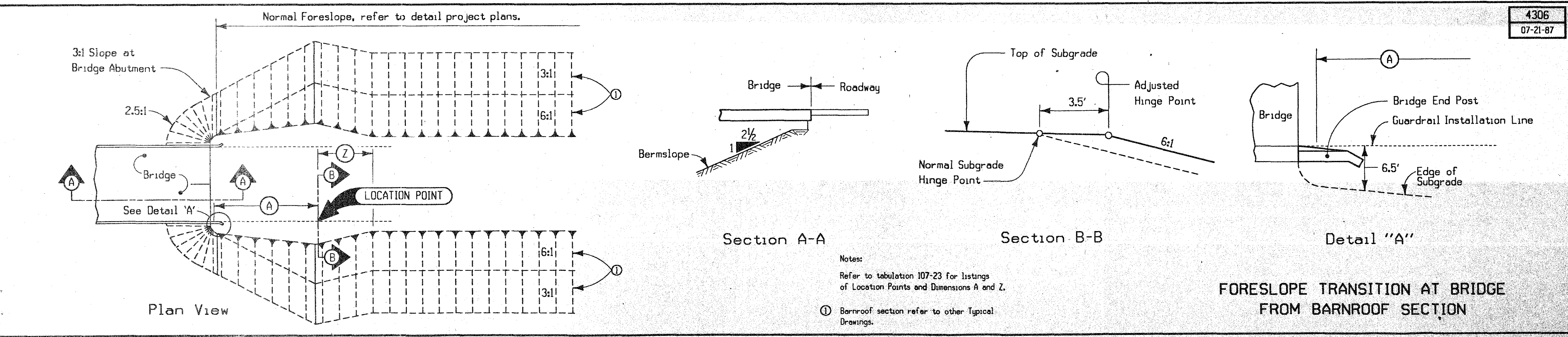
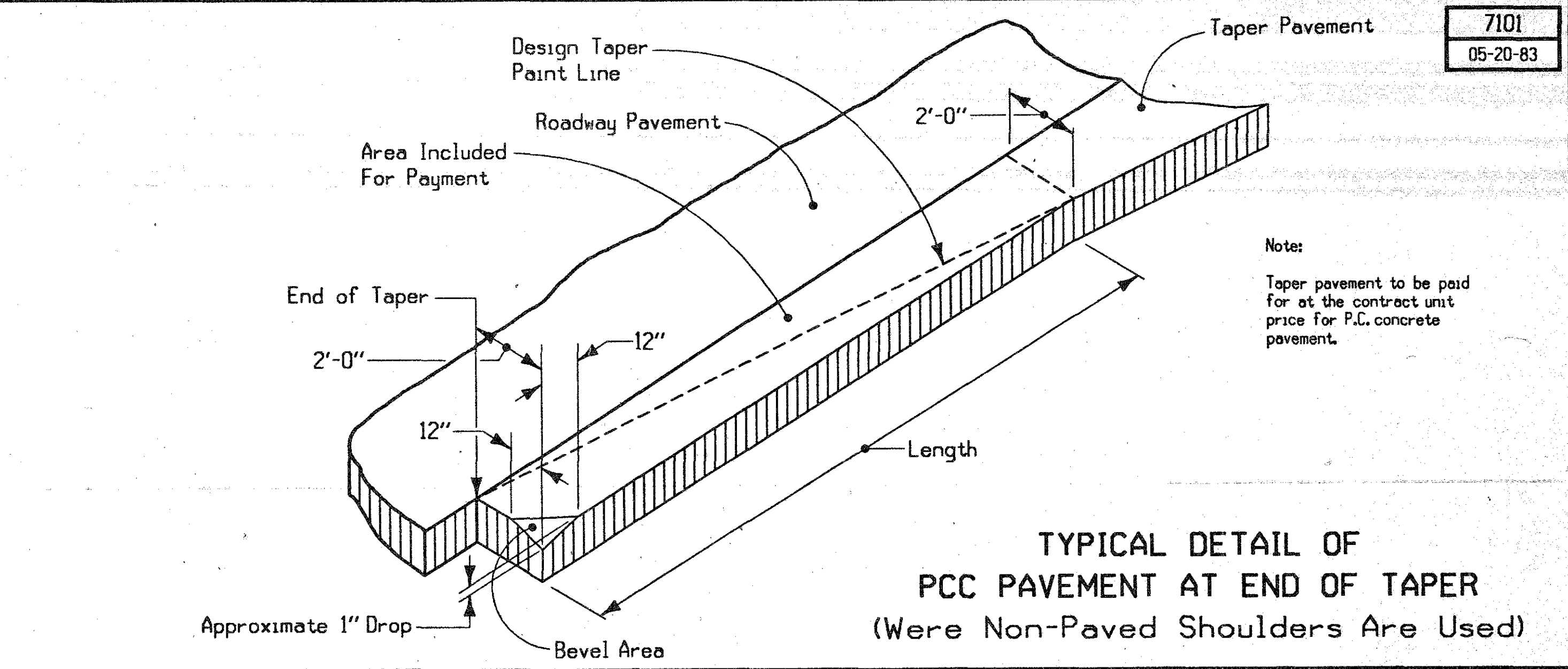
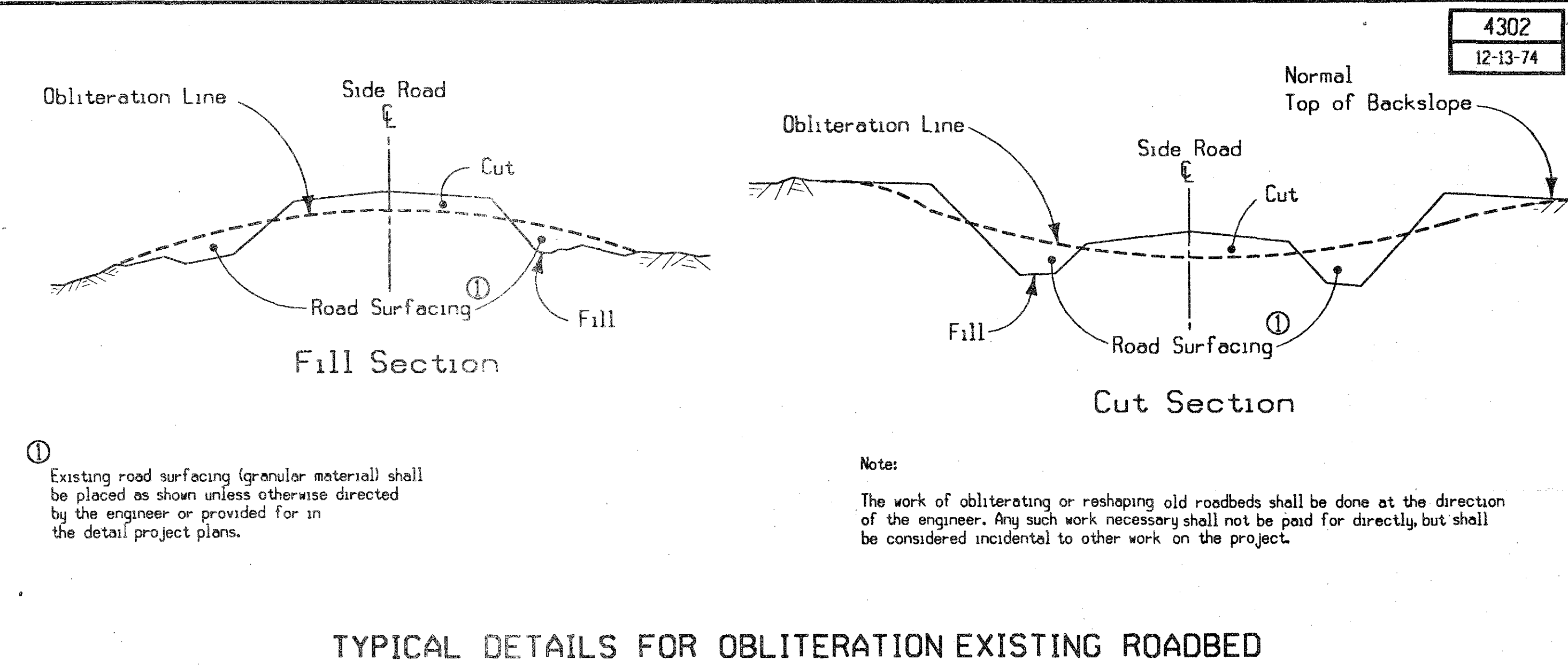
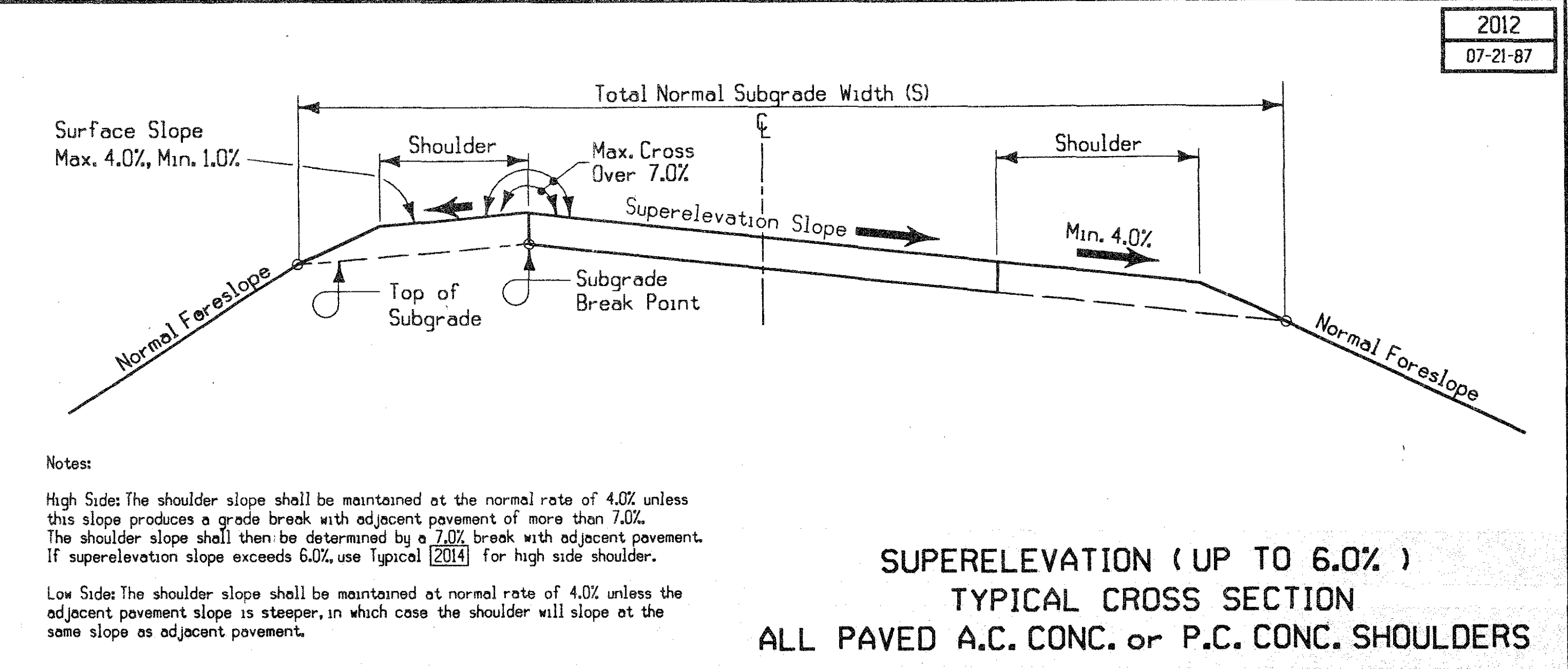
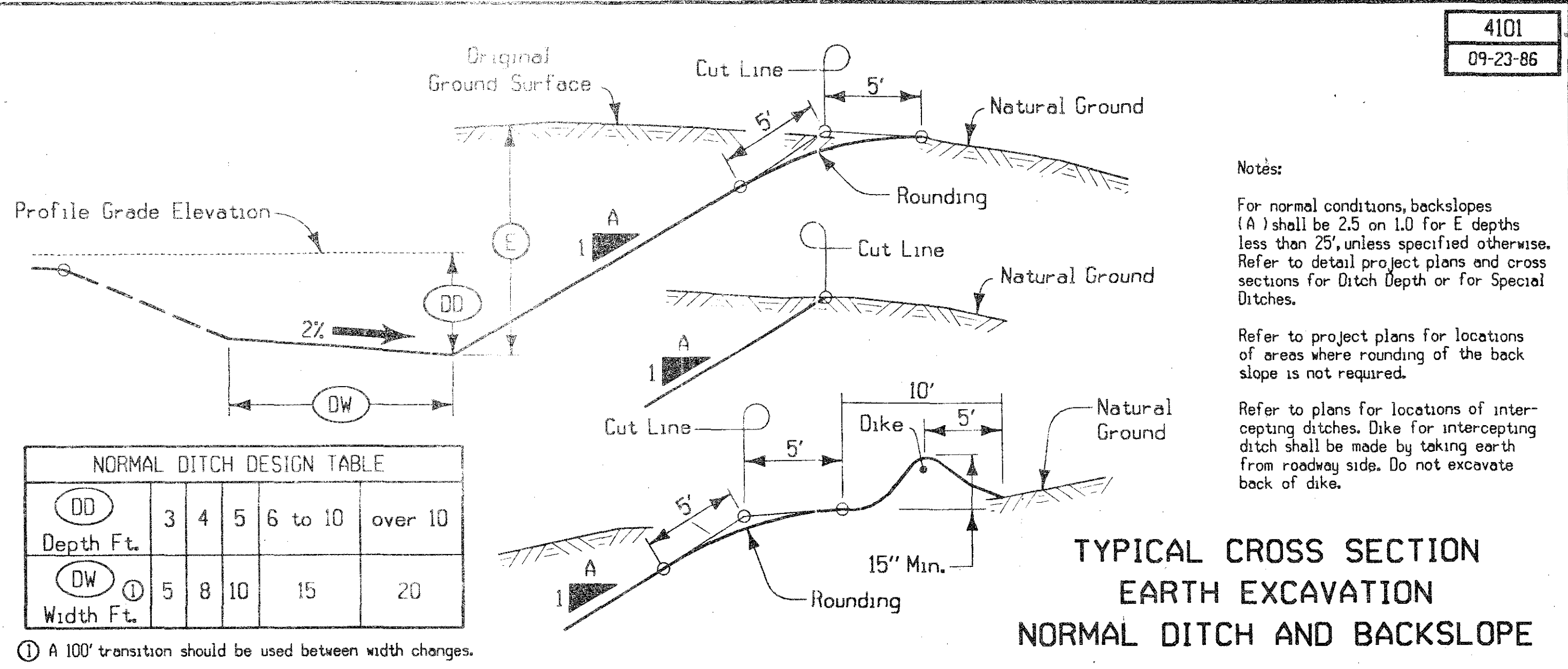
RIGHT-OF-WAY PLANS			LEGEND	
	DATES	SETS		
PROJECT PLANNING			▲ PROPOSED RIGHT OF WAY	
RECEIVED			△ EXISTING RIGHT OF WAY	
ADVERTISING CONTROL			▲△ EXISTING AND PROPOSED RIGHT OF WAY	
APPRAISAL			■ BORROW	
DISTRICT			◊ EASEMENT (TEMPORARY)	
DISTRICT L.S.			● EASEMENT	
CONDEMNATION			X EXCESS	
DOCUMENTS			—+— PROPERTY LINE	
PROPERTY MGT.			A/C ACCESS CONTROL	
RELOC. ASST.				
F.H.W.A.				
DESIGN				
ACQUISITION				



Iowa Department of Transportation
Highway Division
OFFICE OF RIGHT-OF-WAY

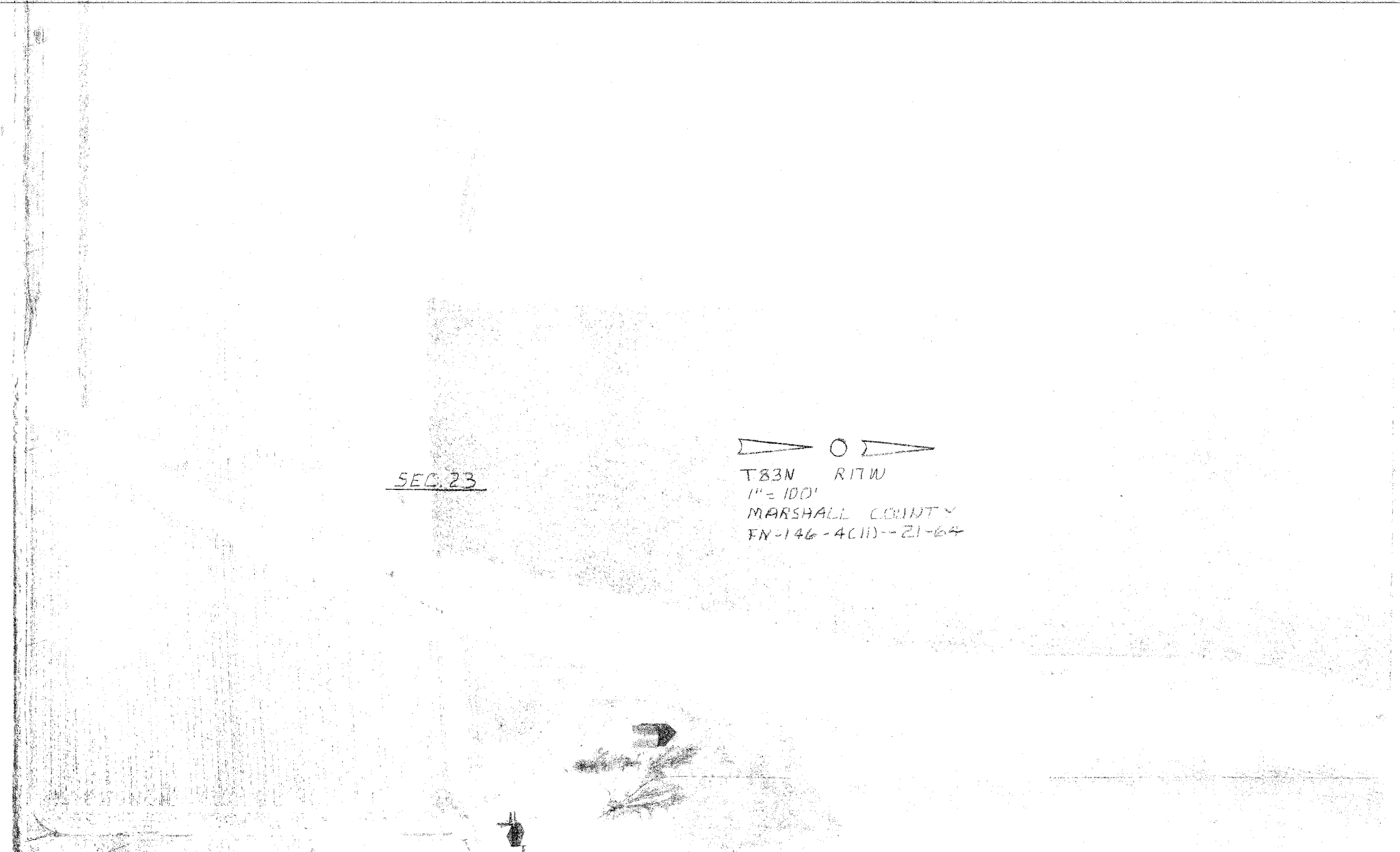
BRUNING 44 131 65-100





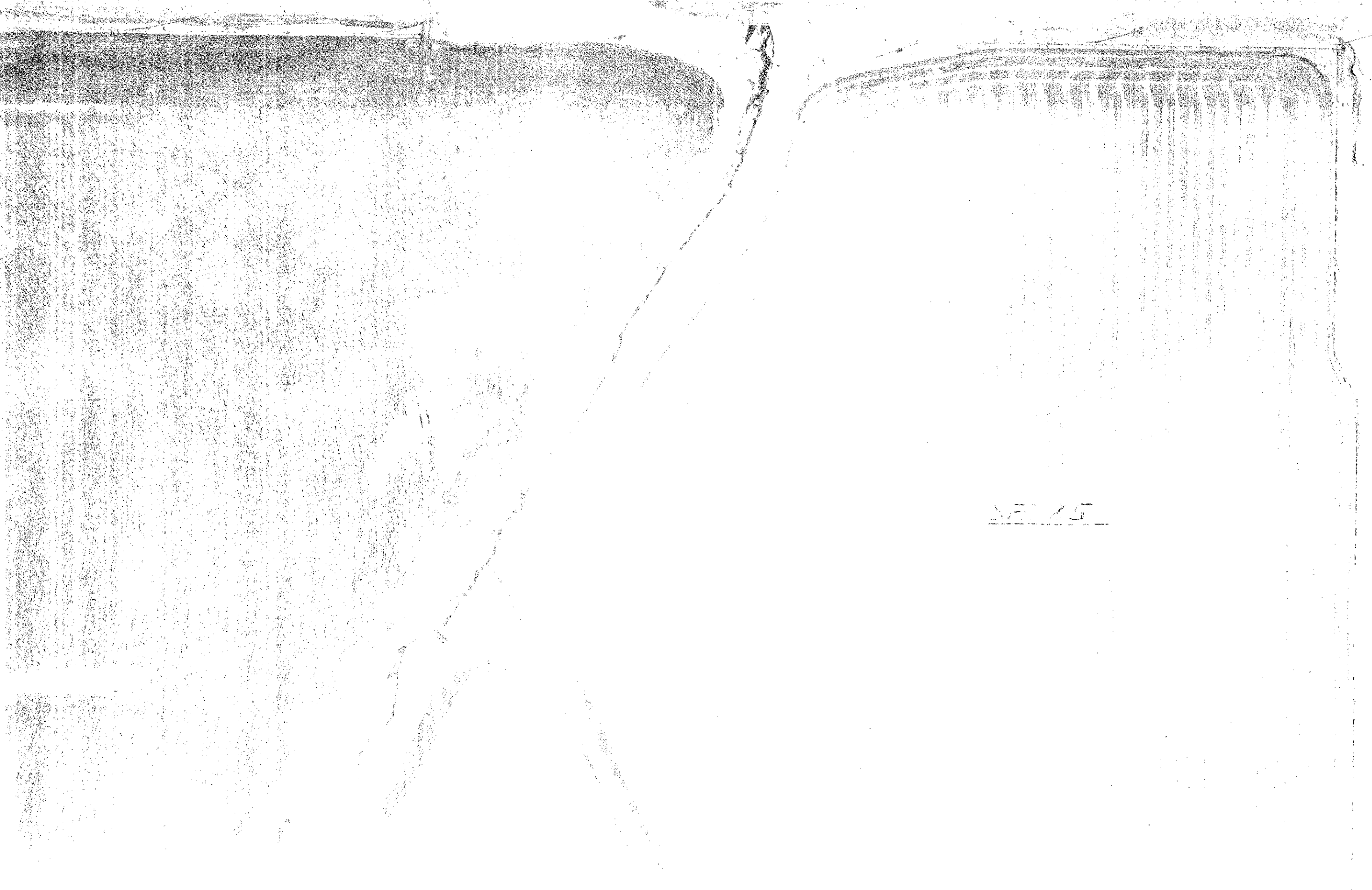


SEC. 26

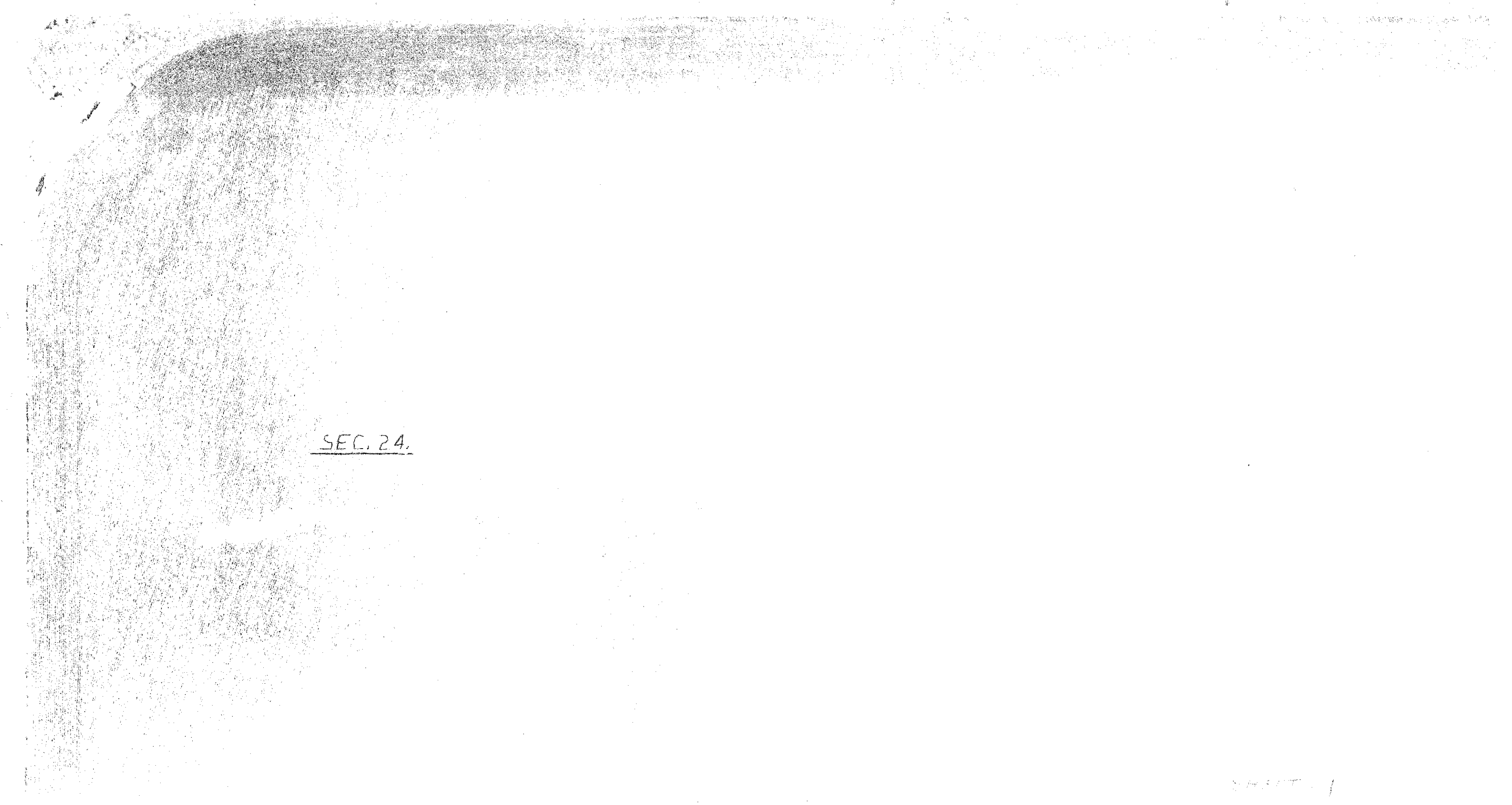


SEC. 23

◀ ○ ▶
T83N R17W
1" = 100'
MARSHALL COUNTY
FN-146-4C111-21-64



SEC. 25



SEC. 24

12.146

12.146

SEC. 23

▶ ○ ▶
T83N R-17W
1" = 100'
MARSHALL COUNTY
FN-146-4(11)--21-64

TA 146

SEC. 24

SEC 23

T83N R13W
1" = 100'
MARSHALL COUNTY
EN-146-4611-21-64
SEC. 14

IA 146

IA 146

SEC 24

LOCAL ROAD

SEC 13

SHEET #3

T83N R17W
1"=100'
MARSHALL COUNTY
FN-146-4(U)-21-64

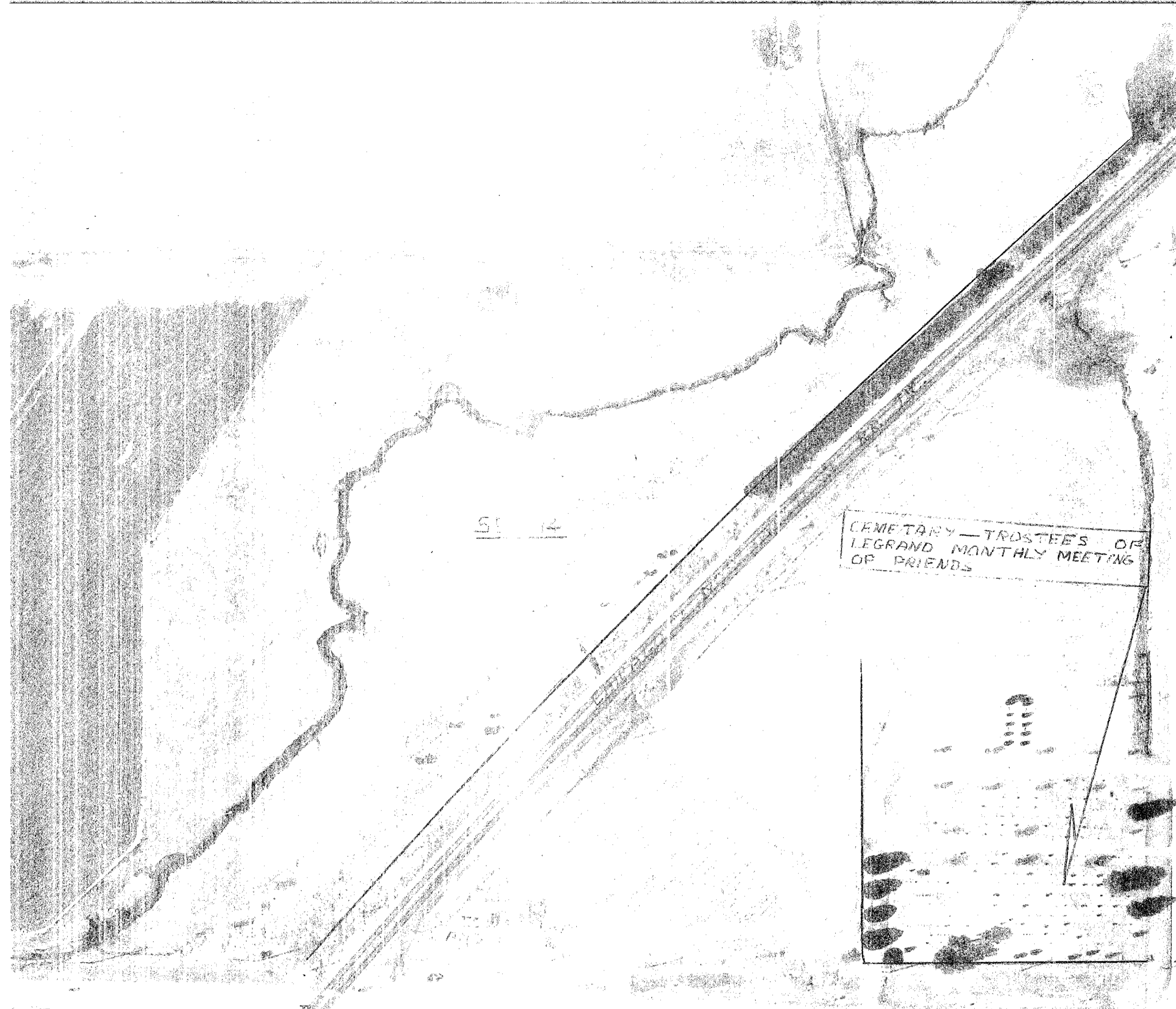
SEC 14

IA. 196

Barren Area

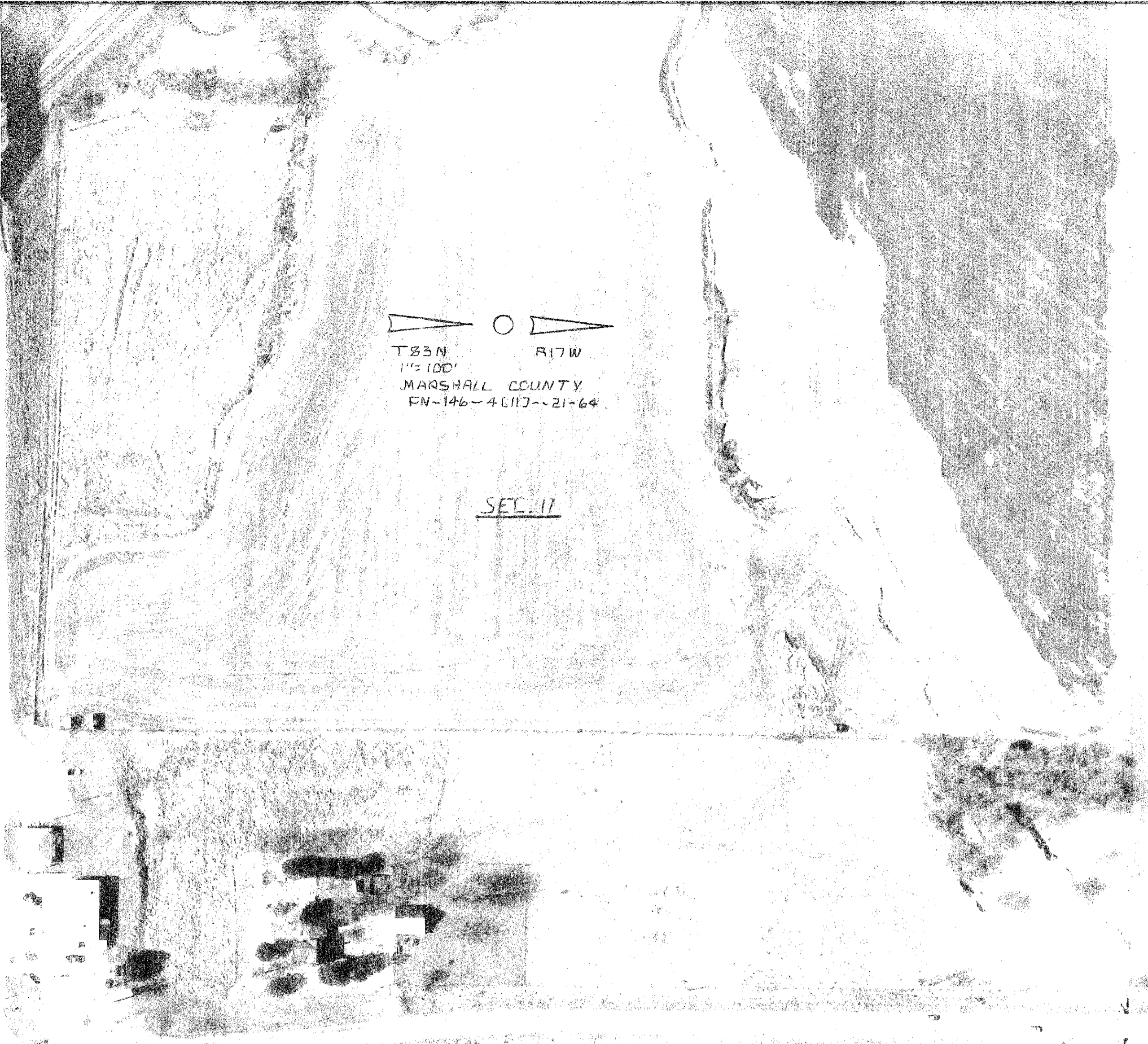
SEC 13

SHEET #4



SE 12

CEMETARY - TRUSTEES OF
LEGRAND MONTHLY MEETING
OF FRIENDS



T83N R17W
1"=100'
MARSHALL COUNTY
FN-146-4617--21-64

SEC. 11

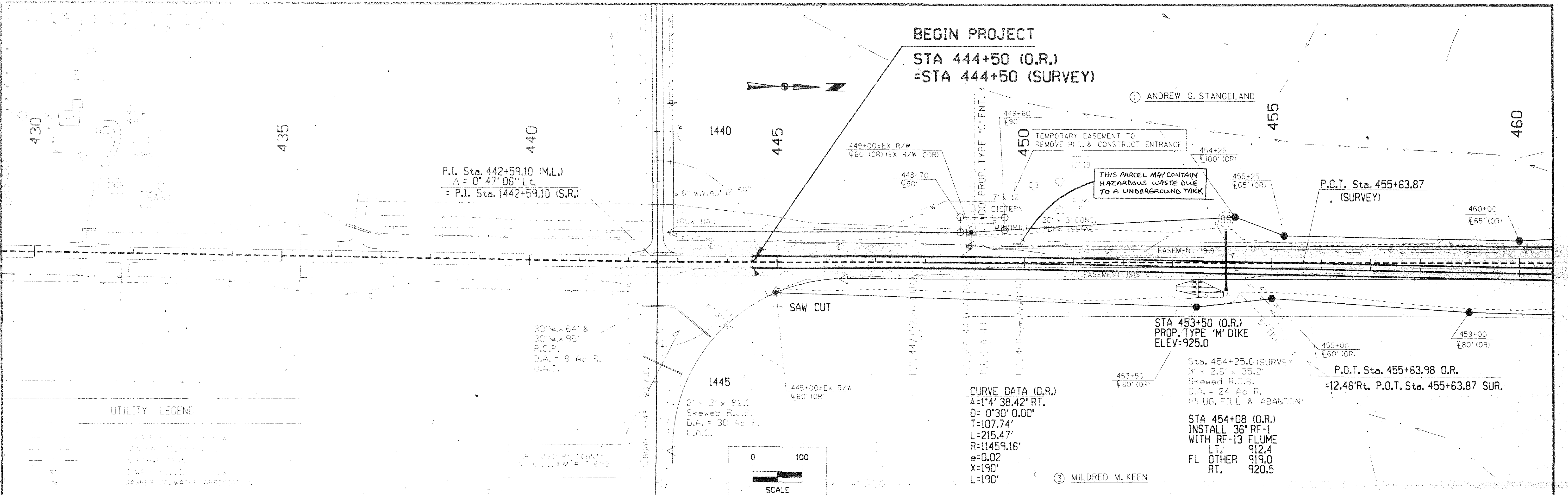


US
57



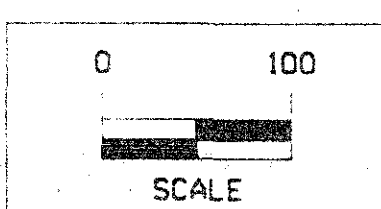
CITY OF LEGRAND

SEC. 12



UTILITY LEGEND

- WATER MAIN
- SANITARY SEWER
- GAS
- TELEPHONE
- POWER
- CABLE TELEVISION
- FIBER OPTIC
- DRAINAGE
- EASEMENT

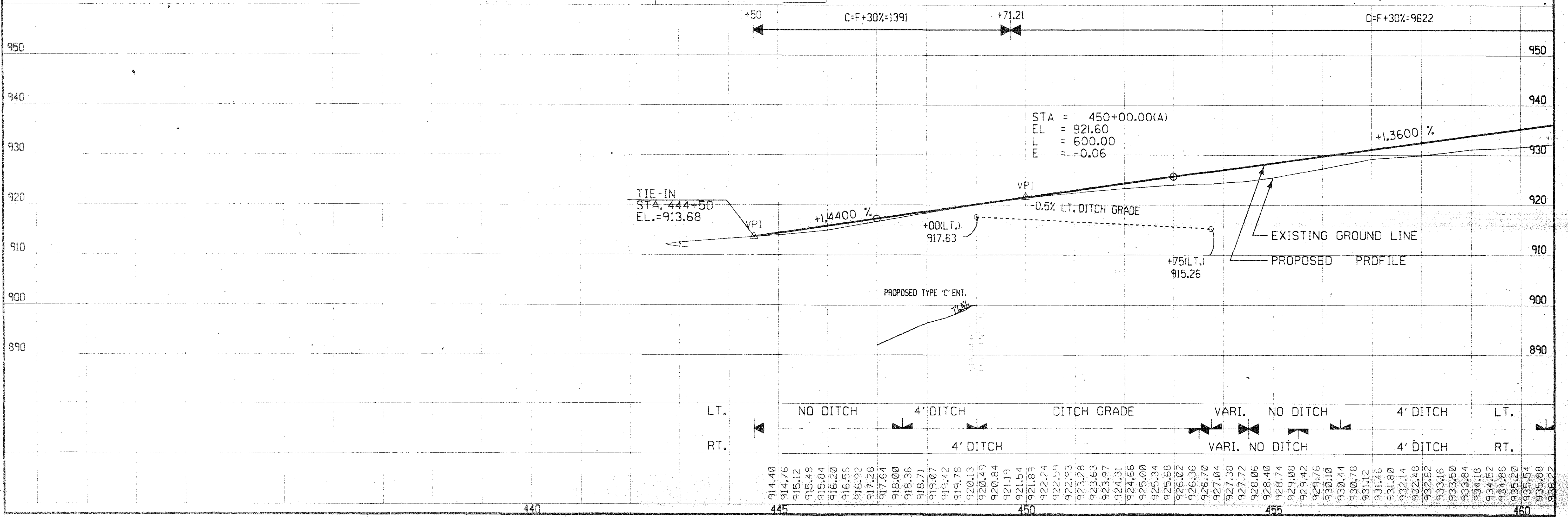


CURVE DATA (O.R.)
 Δ=1°4'38.42" RT.
 D=0°30'0.00"
 T=107.74'
 L=215.47'
 R=11459.16'
 e=0.02
 X=190'
 L=190'

STA 453+50 (O.R.)
 PROP. TYPE 'M' DIKE
 ELEV=925.0

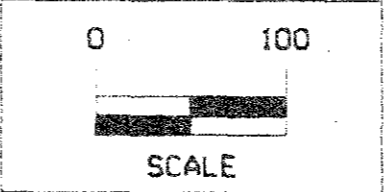
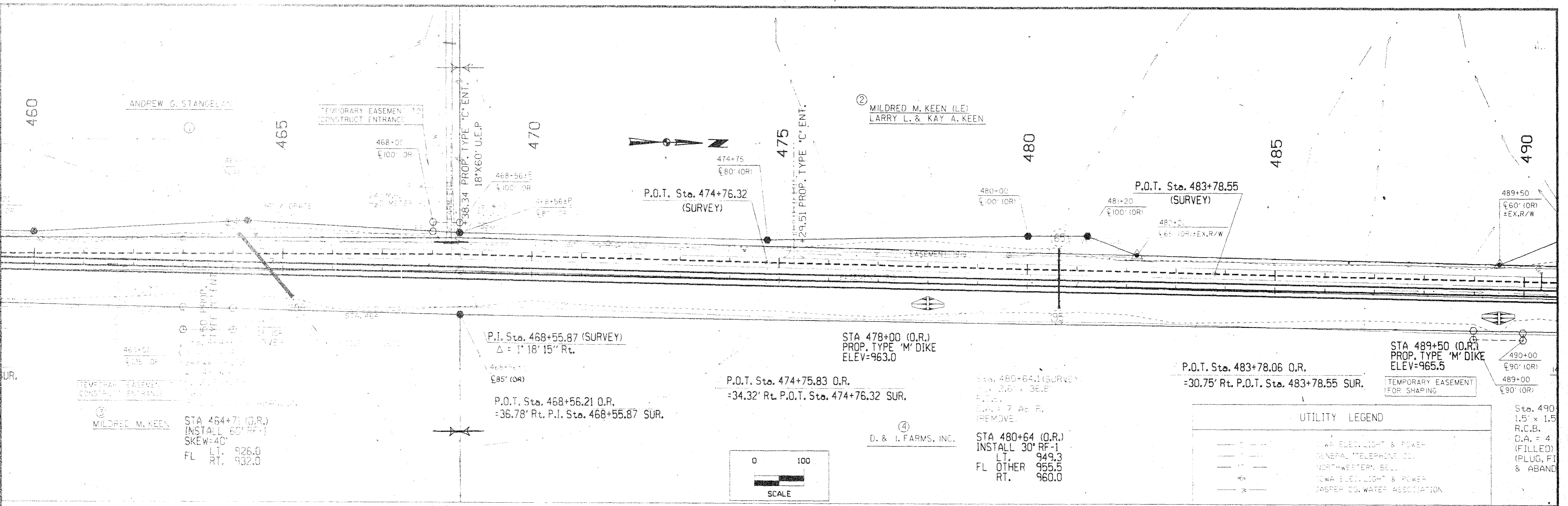
Sta. 454+25.0 (SURVEY)
 3' x 2.6' x 35.2'
 Skewed R.C.B.
 D.A. = 24 Ac R.
 (PLUG, FILL & ABANDON)

STA 454+08 (O.R.)
 INSTALL 36" RF-1
 WITH RF-13 FLUME
 LT. 912.4
 FL OTHER 919.0
 RT. 920.5



LT. NO DITCH 4' DITCH DITCH GRADE VARI. NO DITCH 4' DITCH LT.
 RT. 4' DITCH VARI. NO DITCH 4' DITCH RT.

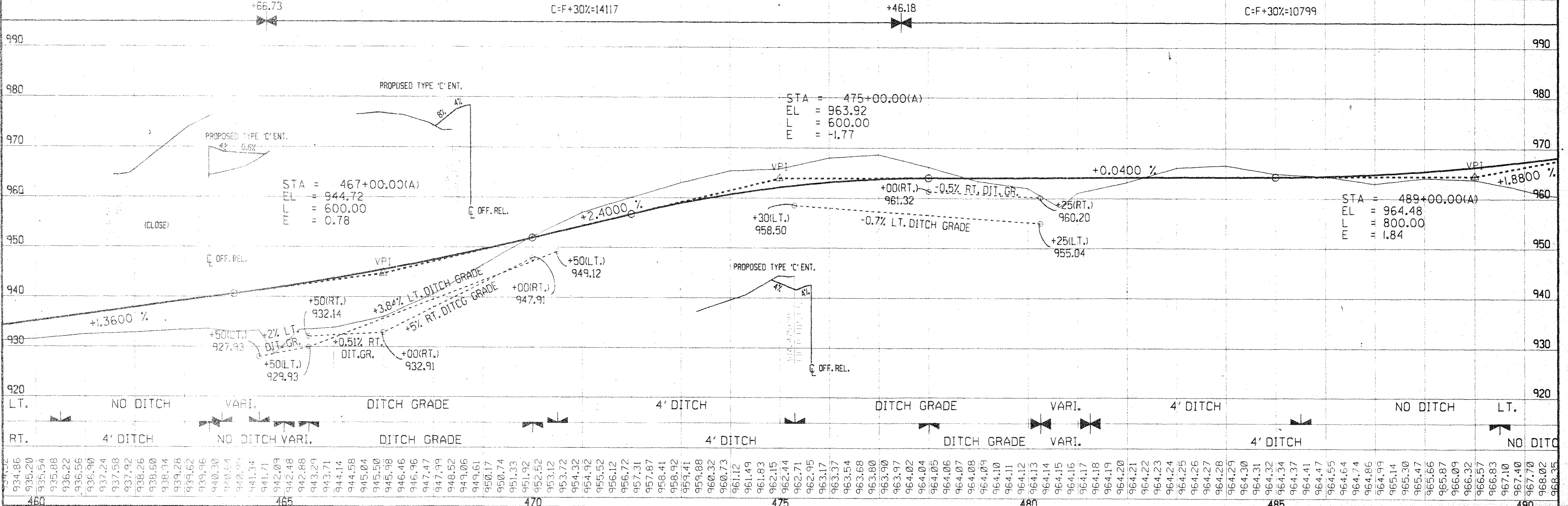
914.40	914.76	915.12	915.48	915.84	916.20	916.56	916.92	917.28	917.64	918.00	918.36	918.71	919.07	919.42	919.78	920.13	920.49	920.84	921.19	921.54	921.89	922.24	922.59	922.93	923.28	923.63	923.97	924.31	924.66	925.00	925.34	925.68	926.02	926.36	926.70	927.04	927.38	927.72	928.06	928.40	928.74	929.08	929.42	929.76	930.10	930.44	930.78	931.12	931.46	931.80	932.14	932.48	932.82	933.16	933.50	933.84	934.18	934.52	934.86	935.20	935.54	935.88	936.22
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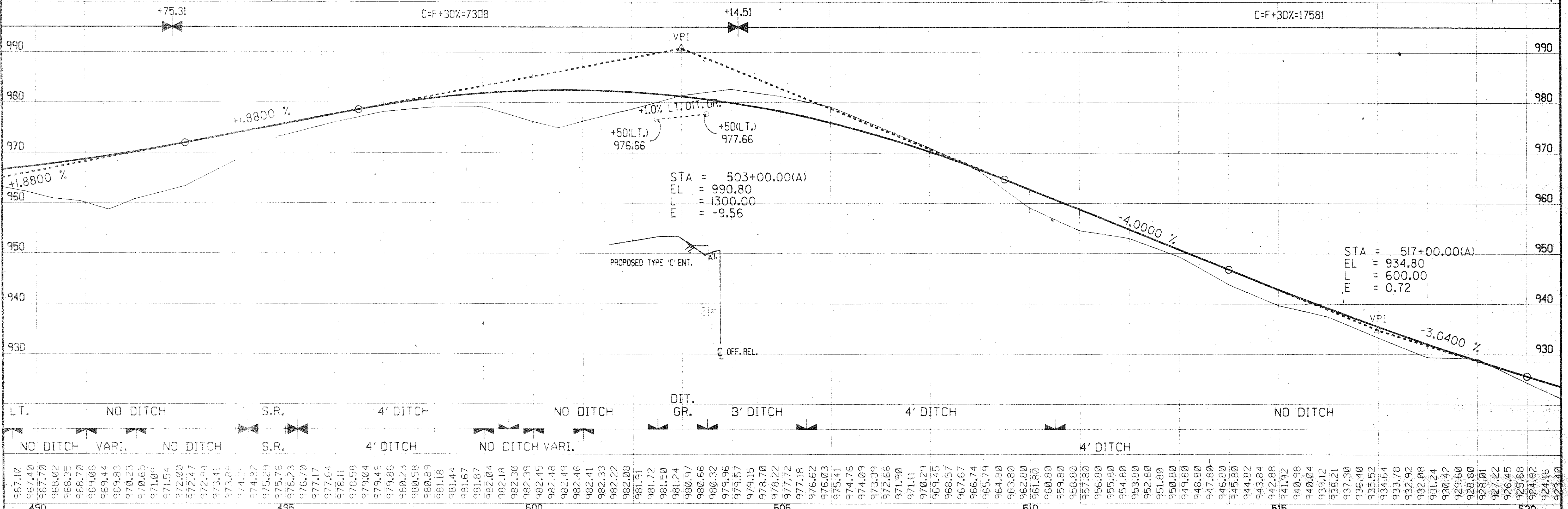
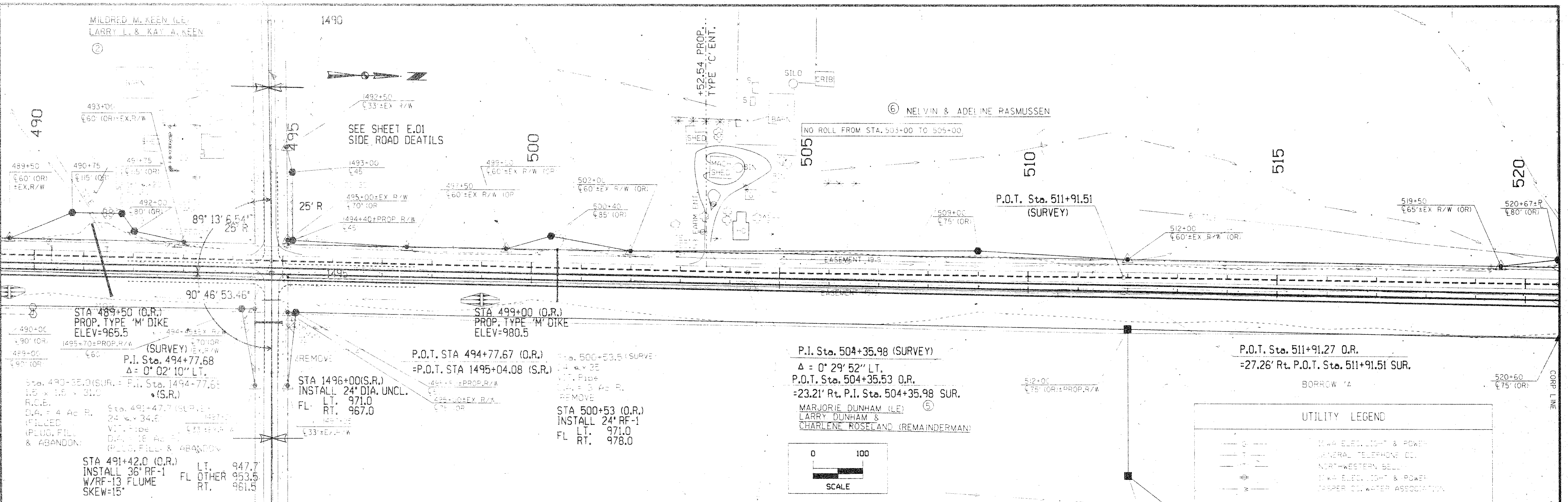
UTILITY LEGEND

(Symbol)	IWA ELECT. LIGHT & POWER
(Symbol)	GENERAL TELEPHONE CO.
(Symbol)	NORTHWESTERN BELL
(Symbol)	IWA ELECT. LIGHT & POWER
(Symbol)	JASPER CO. WATER ASSOCIATION

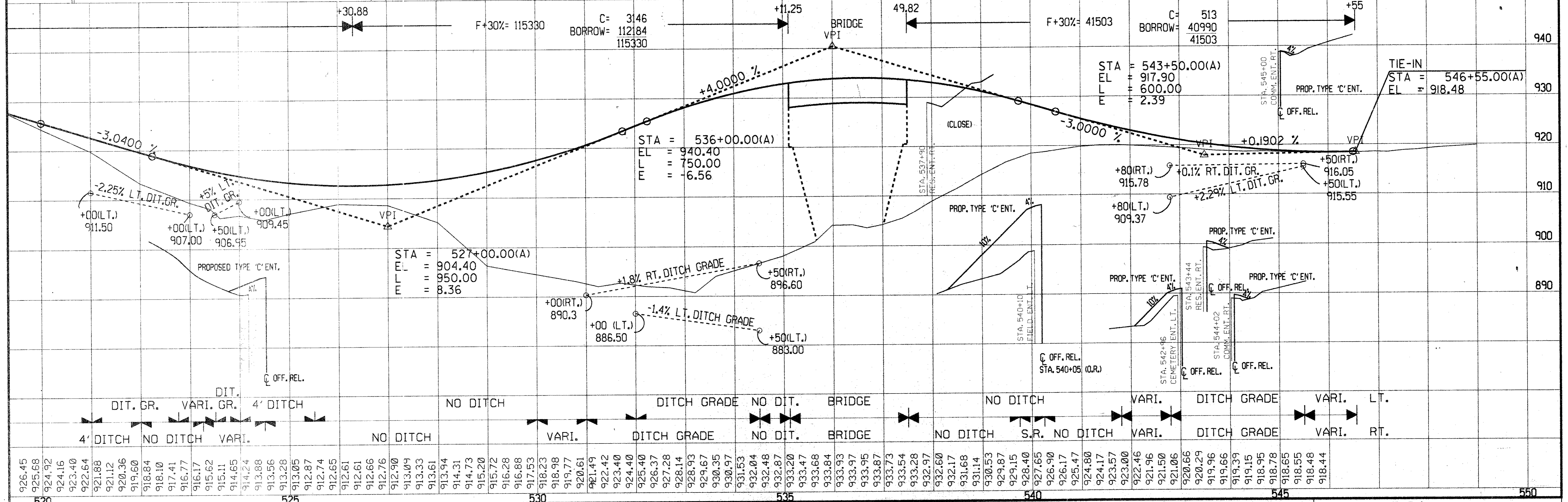
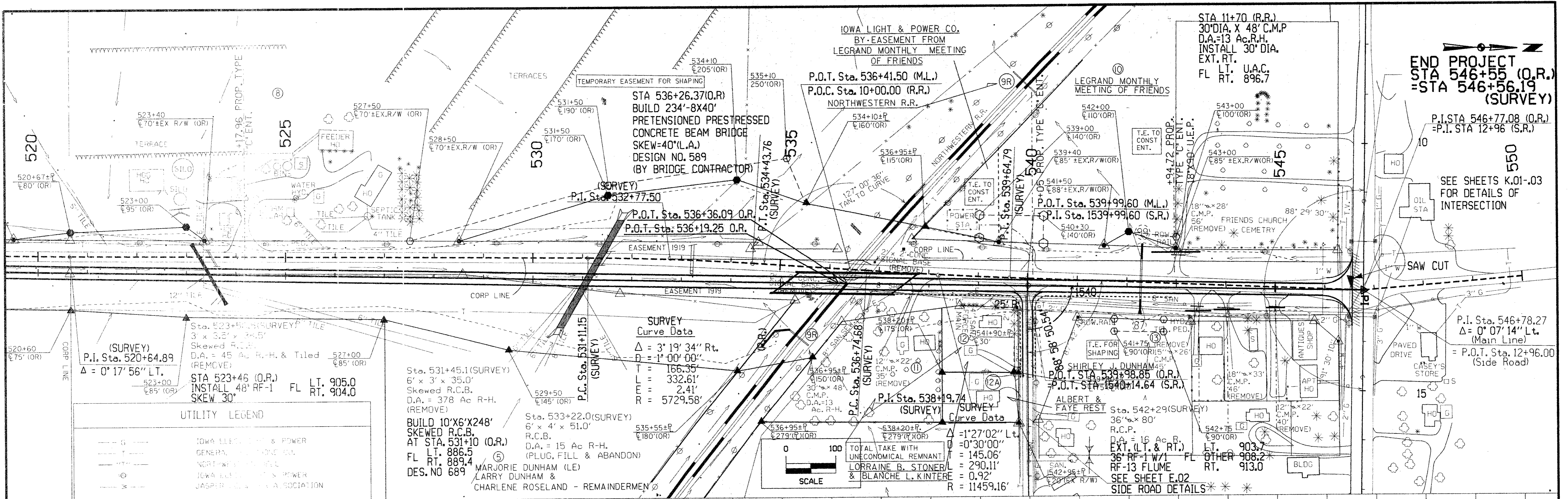
Sta. 490
1.5' x 1.5'
R.C.B.
D.A. = 4'
(FILLED)
(PLUG, FI & ABAND)



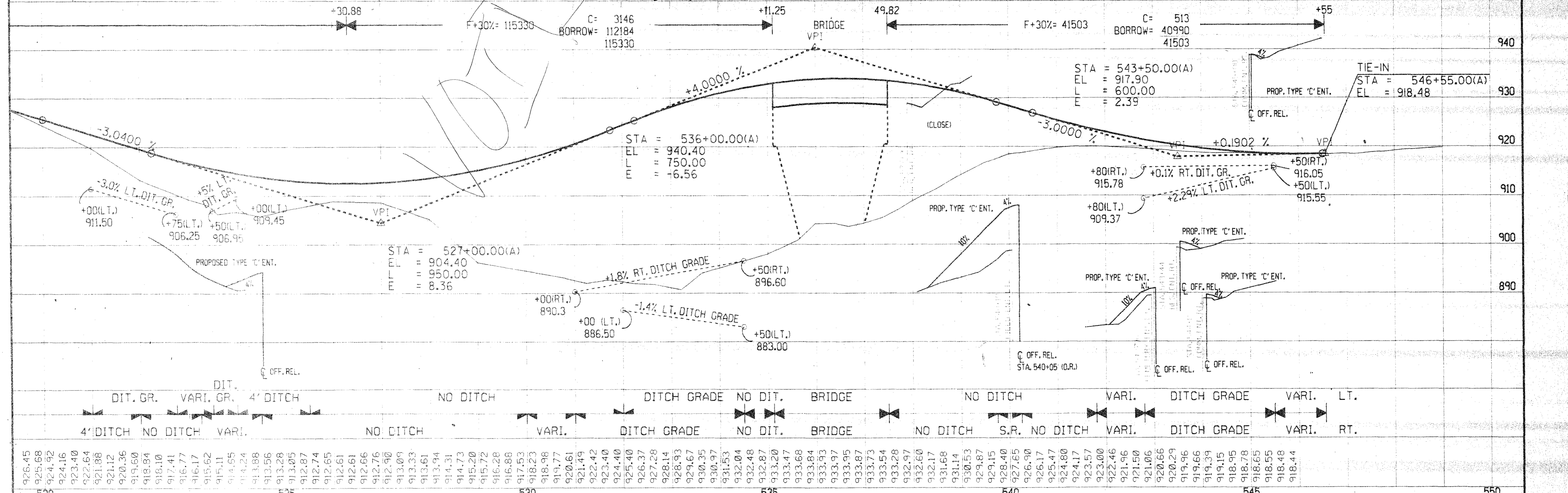
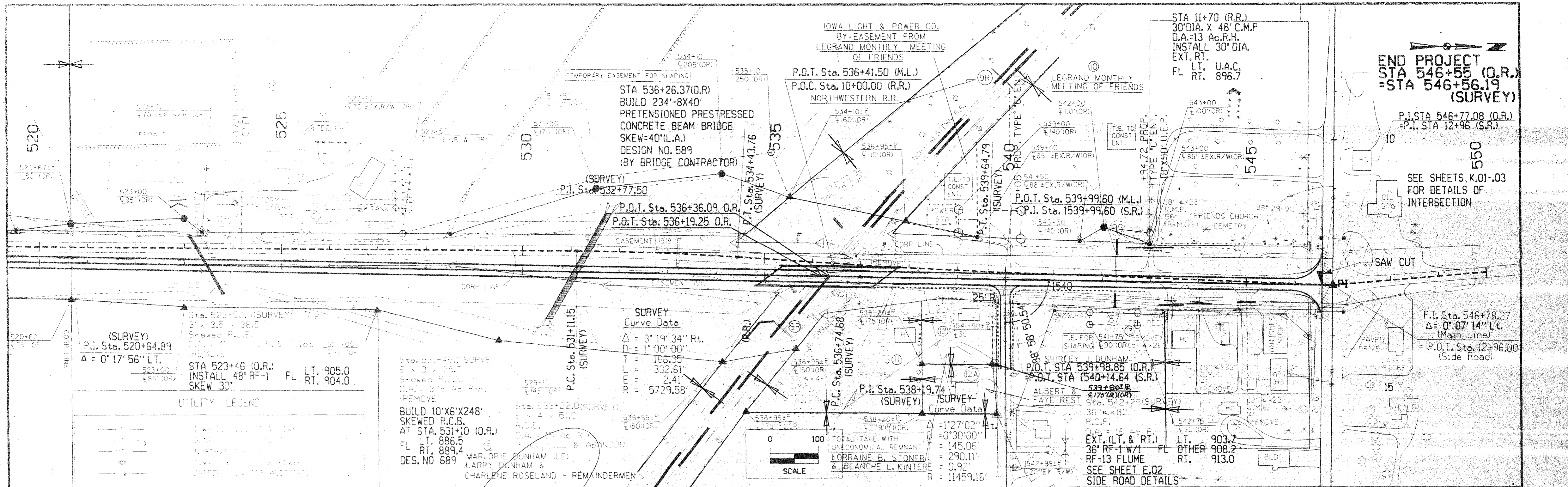
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460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

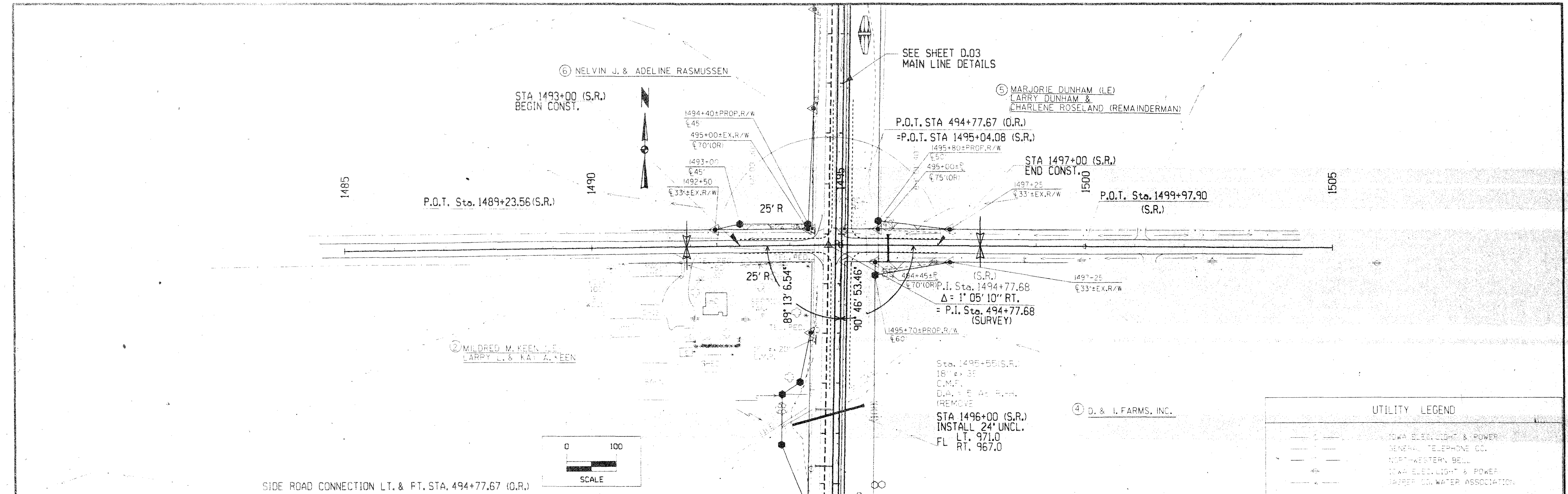


967.10	967.40	967.70	968.02	968.35	968.70	969.06	969.44	969.83	970.23	970.65	971.09	971.54	972.00	972.47	972.94	973.41	973.89	974.36	974.82	975.29	975.76	976.23	976.70	977.17	977.64	978.11	978.58	979.04	979.46	979.86	980.23	980.58	980.93	981.18	981.44	981.67	981.87	982.04	982.18	982.30	982.39	982.45	982.48	982.49	982.46	982.41	982.33	982.22	982.08	981.91	981.72	981.50	981.24	980.97	980.66	980.32	979.96	979.57	979.15	978.70	978.22	977.72	977.18	976.62	976.03	975.41	974.76	974.09	973.39	972.66	971.90	971.11	970.29	969.45	968.57	967.67	966.74	965.79	964.80	963.80	962.80	961.80	960.80	959.80	958.80	957.80	956.80	955.80	954.80	953.80	952.80	951.80	949.80	948.80	947.80	946.80	945.80	944.82	943.84	942.88	941.92	940.98	940.04	939.12	938.21	937.30	936.40	935.52	934.64	933.78	932.92	932.08	931.24	930.42	929.60	928.80	928.01	927.22	926.45	925.68	924.96	924.16	923.40
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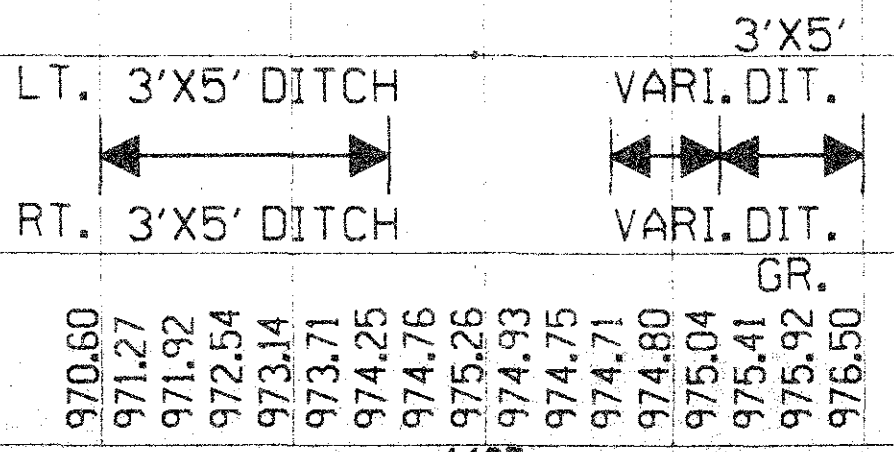
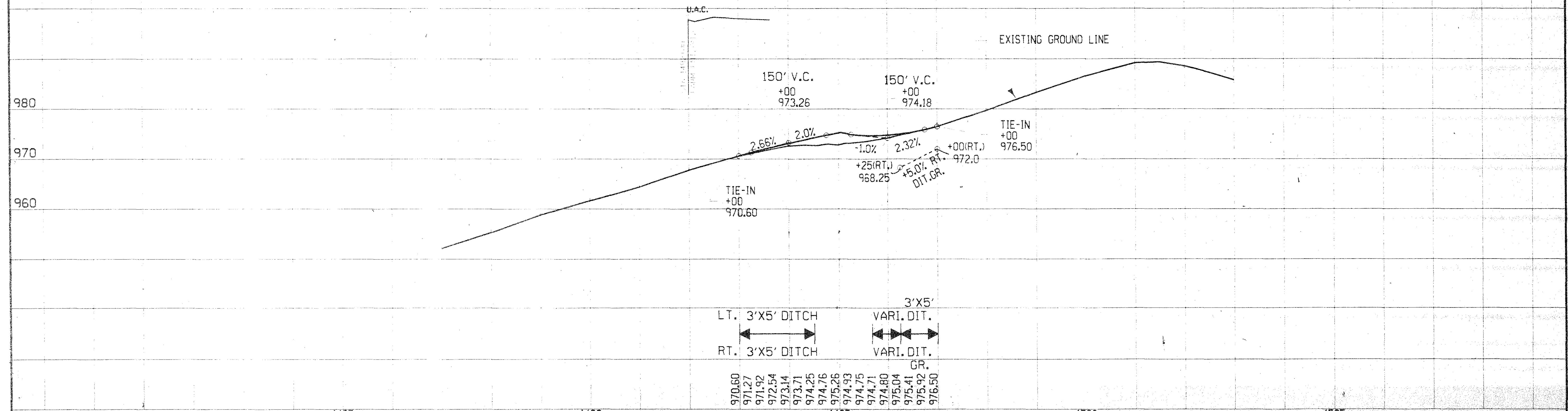
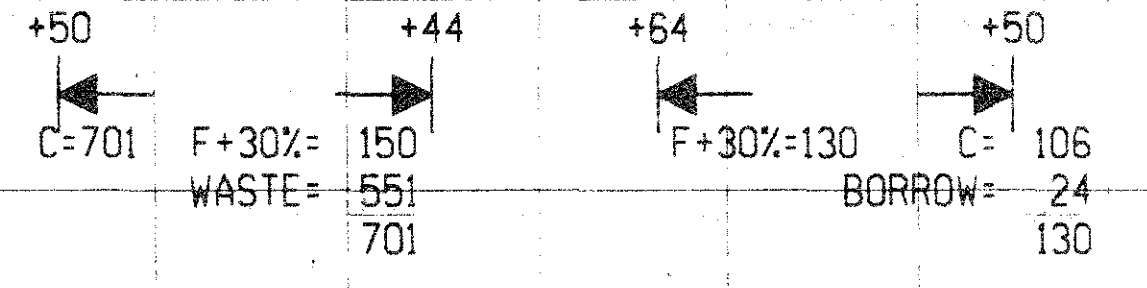


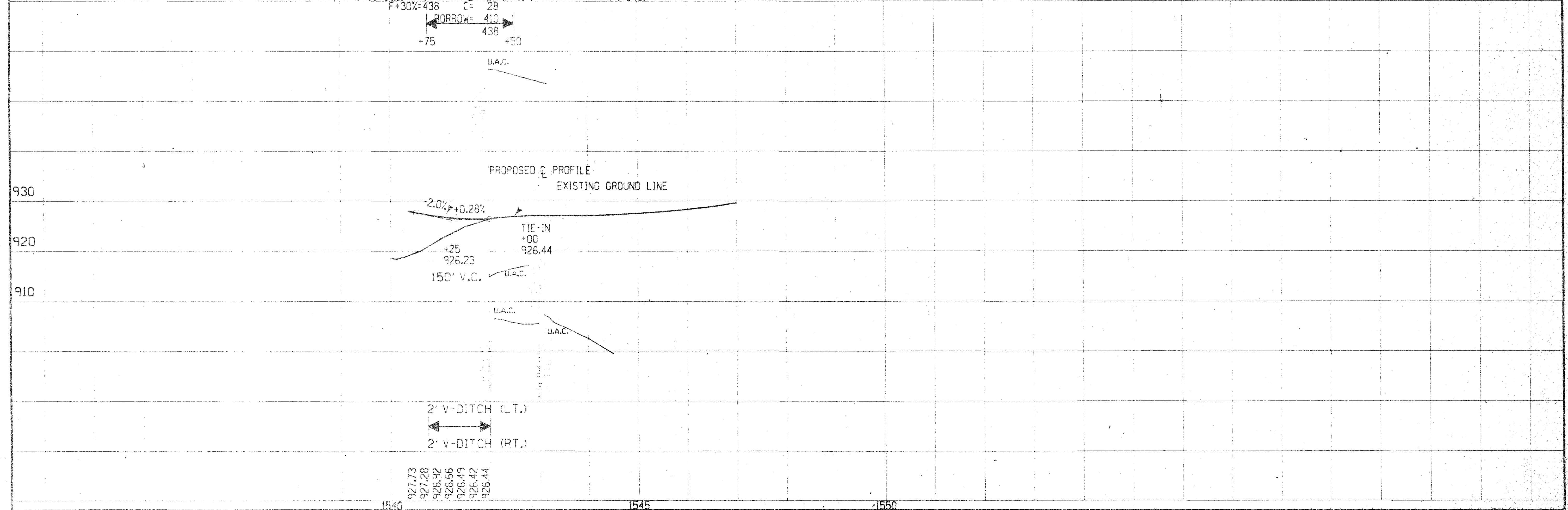
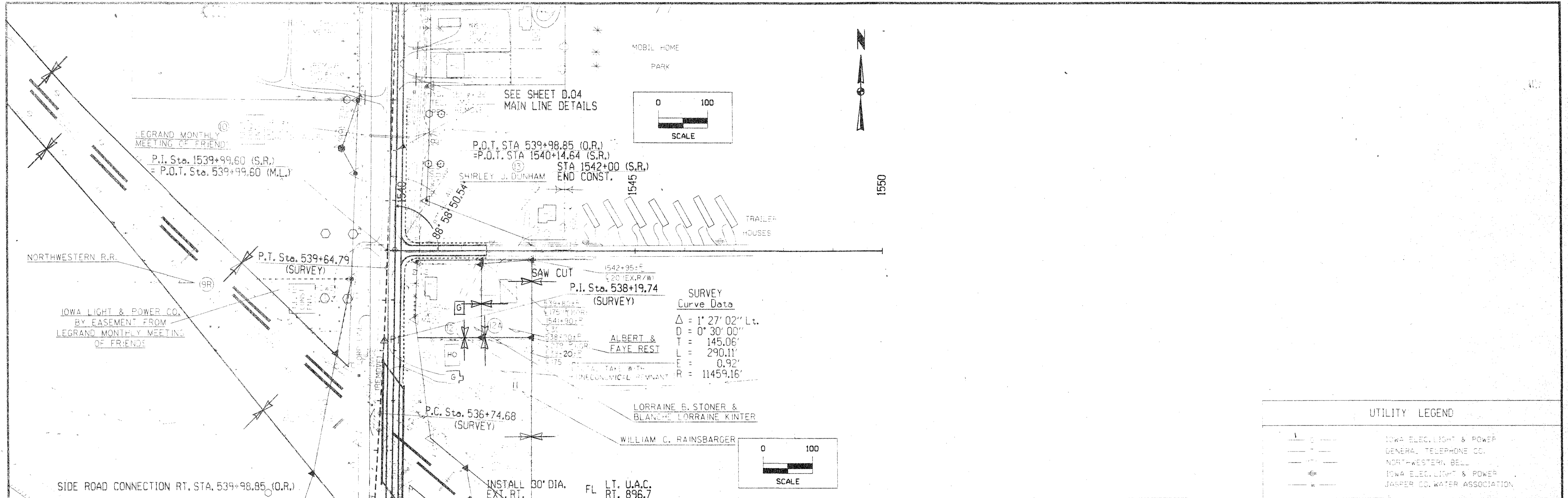
926.45	925.68	924.92	924.16	923.40	922.64	921.88	921.12	920.36	919.60	918.84	918.10	917.41	916.77	916.17	915.62	915.11	914.65	914.24	913.88	913.56	913.28	913.05	912.87	912.74	912.65	912.61	912.61	912.66	912.76	912.90	913.04	913.33	913.61	913.94	914.31	914.73	915.20	915.72	916.28	916.88	917.53	918.23	918.98	919.77	920.61	921.49	922.42	923.40	924.40	925.40	926.37	927.28	928.14	928.93	930.35	930.97	931.53	932.04	932.48	932.87	933.20	933.47	933.68	933.84	933.93	933.97	933.95	933.87	933.73	933.54	933.28	932.97	932.60	932.17	931.68	931.14	930.53	929.87	929.15	928.40	927.65	926.90	926.17	925.47	924.80	924.17	923.57	923.00	922.46	921.96	921.50	921.06	920.66	920.29	919.96	919.66	919.39	919.15	918.95	918.78	918.65	918.55	918.48	918.44
520	525	530	535	540	545	550																																																																																																		





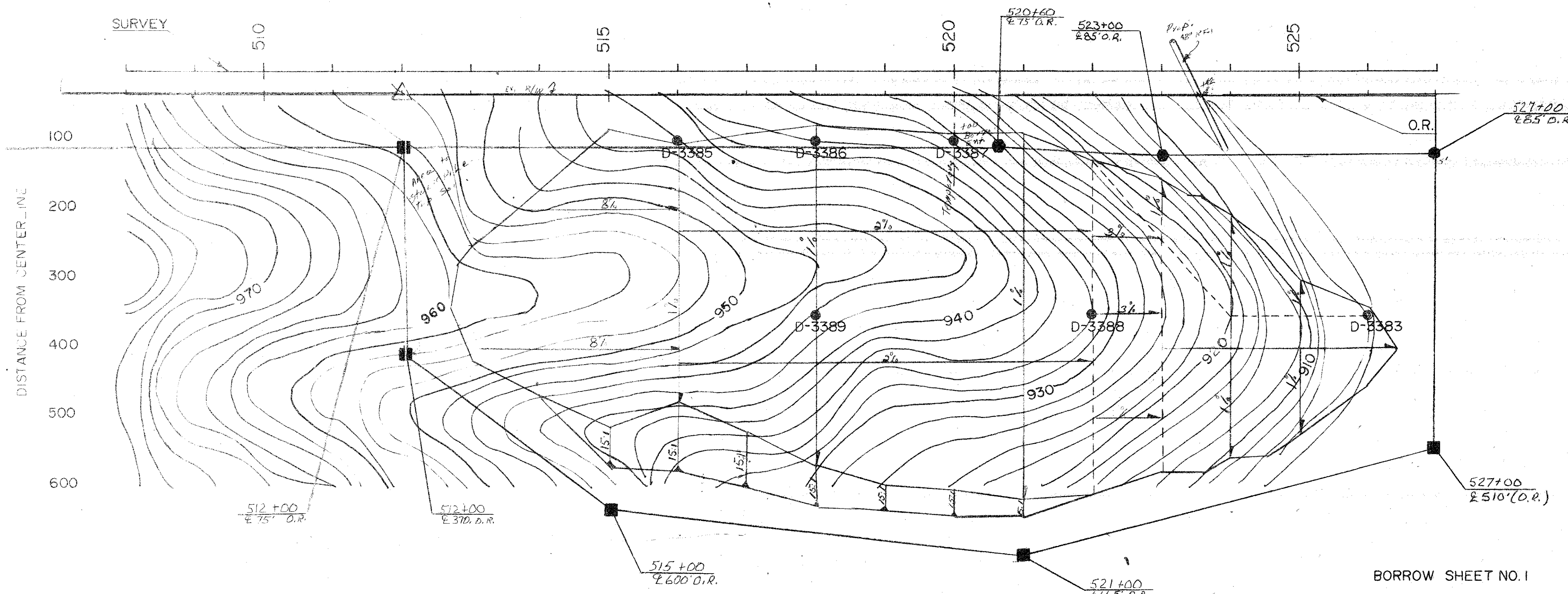
SIDE ROAD CONNECTION LT. & FT. STA. 494+77.67 (O.R.)





DATE _____ BY _____
 FINAL SURVEY DRAWING NO. _____
 CHECKED BY _____
 DATE _____
 NOTE BOOK NO. _____
 AREAS CHECKED _____

DATE _____ BY _____
 ORIGINAL SURVEY DRAWING NO. _____
 CHECKED BY _____
 DATE _____
 NOTE BOOK NO. _____
 AREAS CHECKED _____



LE GRAND TWP
 T-83-N R-17-W
 SEC 14

⑤
 CHARLENE ROSELAND & LARRY DUNHAM remaindermen
 WITH LIFE ESTATE IN
 MARJORIE DUNHAM
 SEE MAINLINE SHEETS D03 & D04

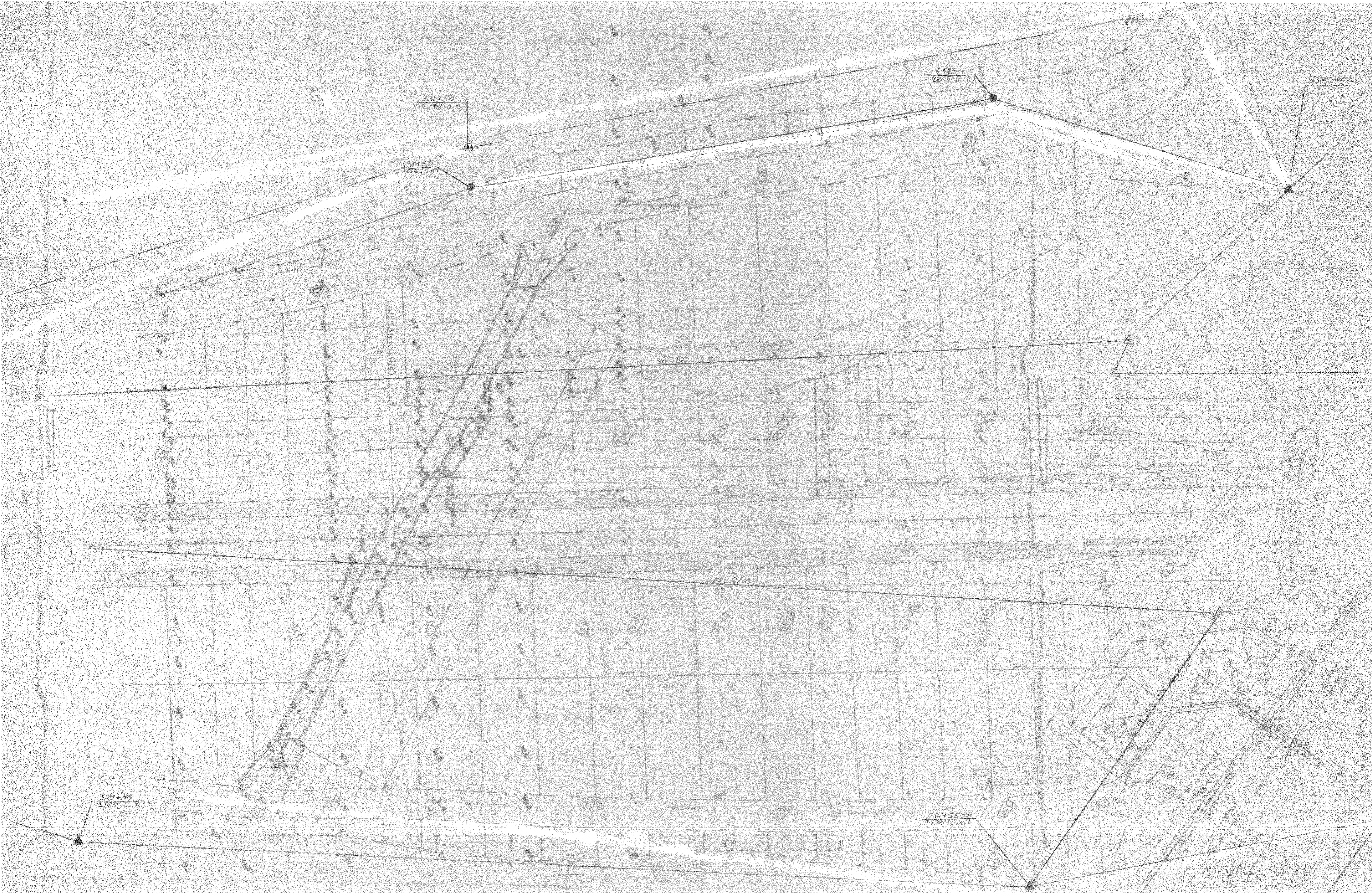
BORROW SHEET NO. 1

BORROW "A" = 13.03 ACRES
 TOTAL CLASS 10 AVAIL. = 164,912
 TOTAL SELECT AVAIL. = 28,907
 TOTAL TOPSOIL AVAIL. = 22,081
 TOTAL AVAIL. = 215,900

REMOVAL AND REPLACEMENT OF TOP SOIL WILL BE CONSIDERED.
 FINAL DETERMINATION WILL BE MADE AT THE TIME OF APPRAISAL & NEGOTIATIONS.

TOTAL CLASS 10 NEEDED = 148,600
 TOTAL SELECT NEEDED = 22,631
 TOTAL TOPSOIL NEEDED = 22,081
 TOTAL NEEDED = 193,312

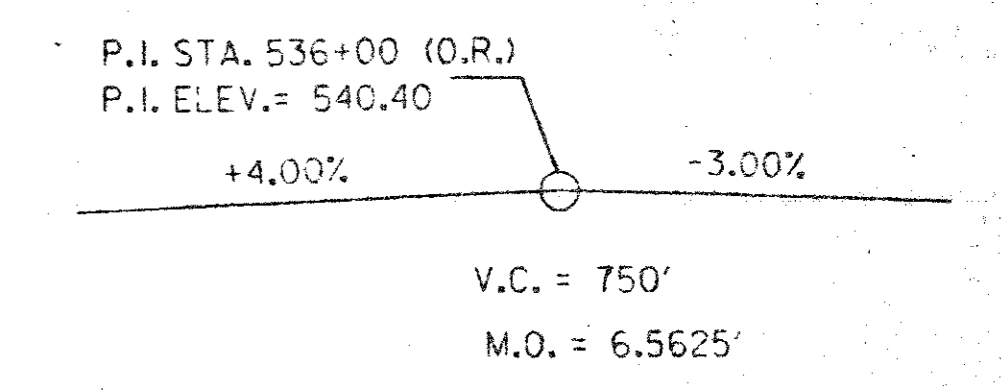
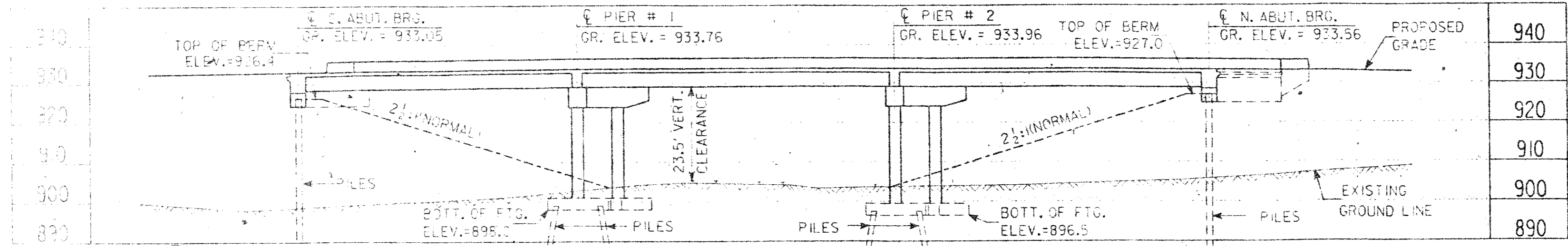
DESCRIPTION FROM E49 N. TO US 30 (1.9 MI)			
SOIL SURVEYOR G. RUNYAN DATE 1/89	DESIGNER/CADD J. MCCOLLOUGH DATE 2/89	SOILS BOOK NO. S-64-H	
SELECT SOIL	UNSUITABLE	SHALE	ROCK
SELECT SAND	SANDY SOIL	PLUGGED	MOISTURE
WATER	DENS. CORE	BLOW	
SAMPLE	SHELBY		



Note: RD Cont. Break Top Shapes to Cont. Comp Pack in R/W Sideditch

Updated sheet

BENCH MARK : NO. 209 ; STA. 533+22 (SURVEY) , 21' RT. , FOUND X ON RT. HDWL. OF 6'x4' R.C.B. , ELEV. = 895.33.



SURVEY CURVE DATA:
 $\Delta = 11^{\circ}31'14''$ RT.
 $D = 0^{\circ}30'00''$
 $T = 145.06'$
 $L = 290.11'$
 $E = 0.92'$
 $R = 11,459.16'$

SURVEY CURVE DATA:
 $\Delta = 1^{\circ}27'02''$ LT.
 $D = 0^{\circ}30'00''$
 $T = 145.06'$
 $L = 290.11'$
 $E = 0.92'$
 $R = 11,459.16'$

TYPICAL APPROACH SECTION

TRAFFIC ESTIMATE
 1987: 1855 VPD
 2007: 2395 VPD
 10% TRUCKS

LOCATION
 IA. # 146 OVER CHICAGO & NORTHWESTERN R.R.
 T -83 N - R -17- W
 SECTION 13 & 14
 LE GRAND TOWNSHIP
 MARSHALL COUNTY
 CROSSING NO. 895
 FRA. NO. 190613A

PRELIMINARY

DESIGN FOR 40° SKEW (L.A.)
234'-8x40' PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE
 72'-8 & 80'-9 END SPANS 81'-6 CENTER SPAN
SITUATION PLAN
 STATION: 536+26.37 (O.R.)
MARSHALL COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION-HIGHWAY DIVISION
 DESIGN SHEET NO. X OF X FILE NO. 27772 DESIGN NO. 589

SITUATION PLAN

GENERAL INFORMATION

The datum plane for this survey is on USC & GS datum. Benches were set at the beginning of this project and run north along Ia. 146 to U.S. 30 then northwest along railroad tracks to USC & GS B.M. #E-83 1934 Elev. = 872.872 this elev. = 872.872 was used as datum plane. A first check was also run.

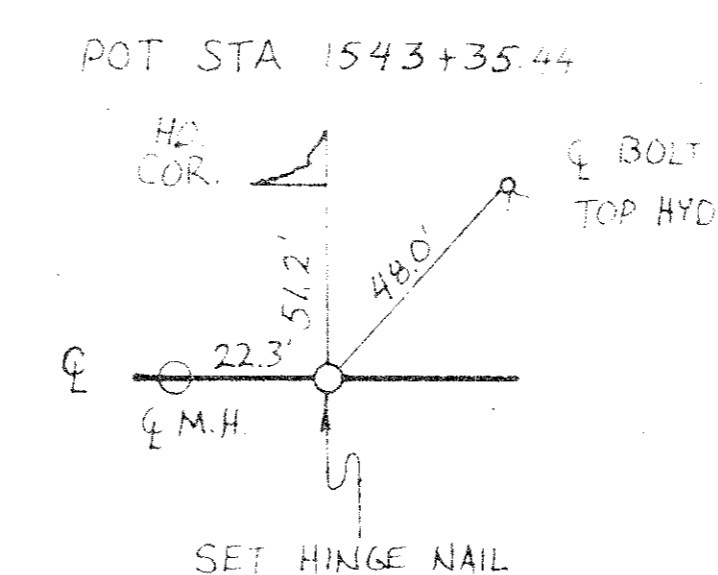
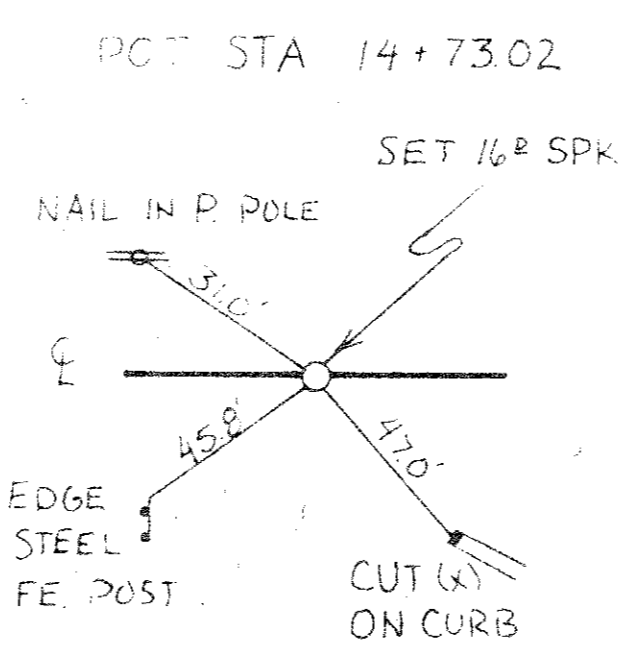
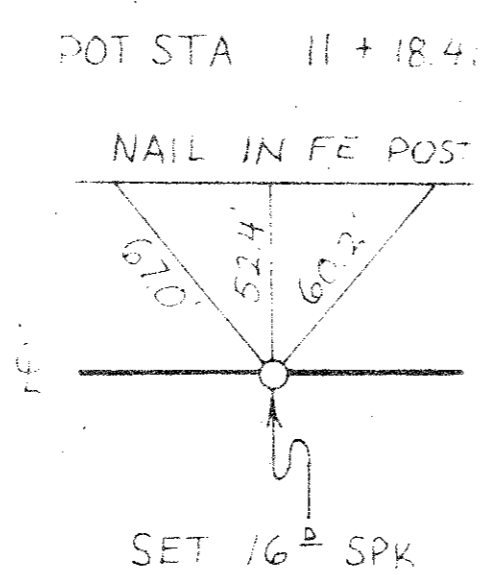
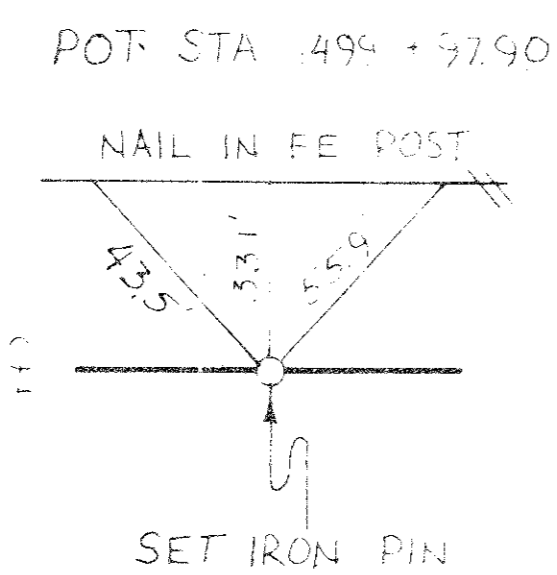
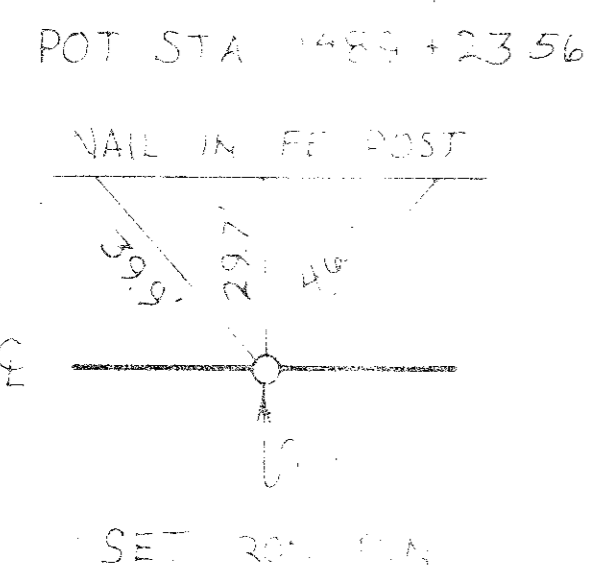
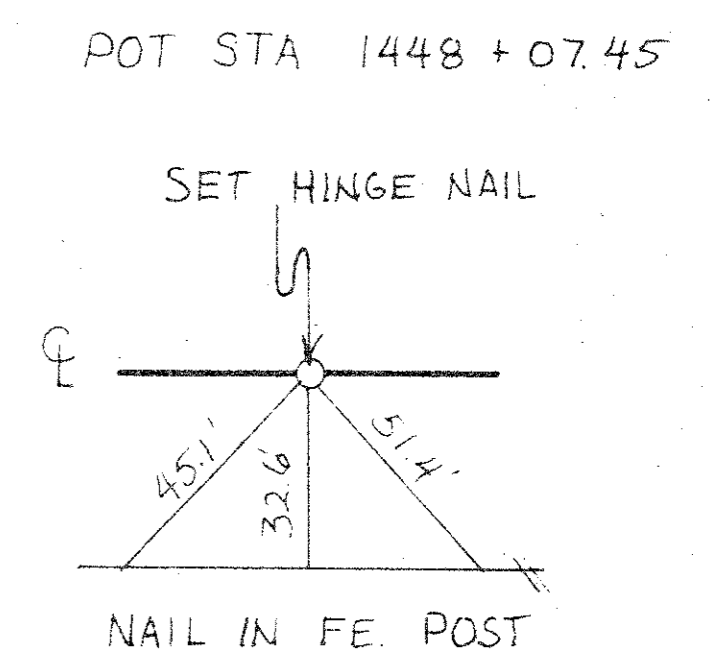
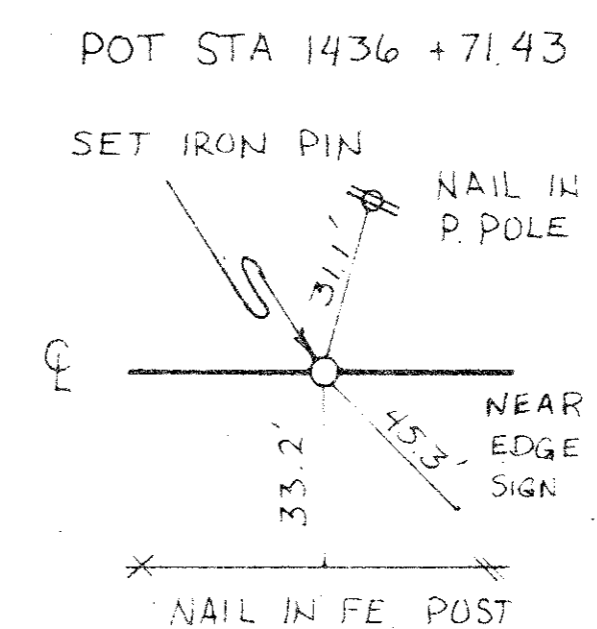
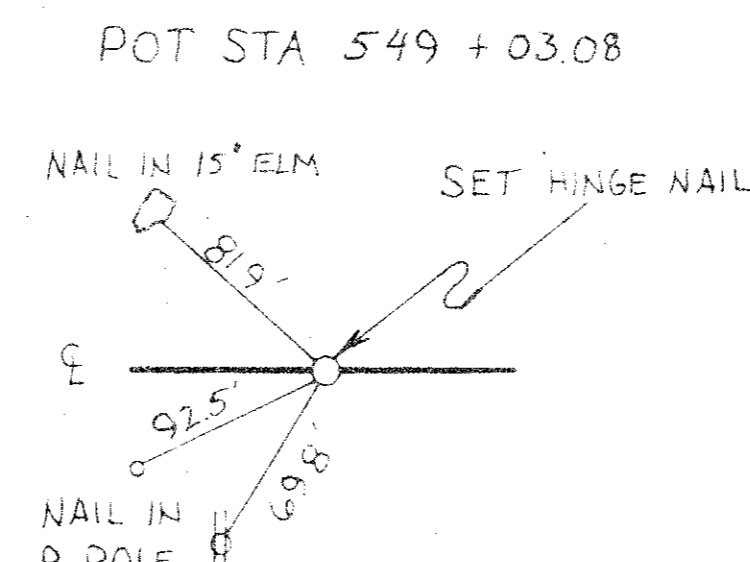
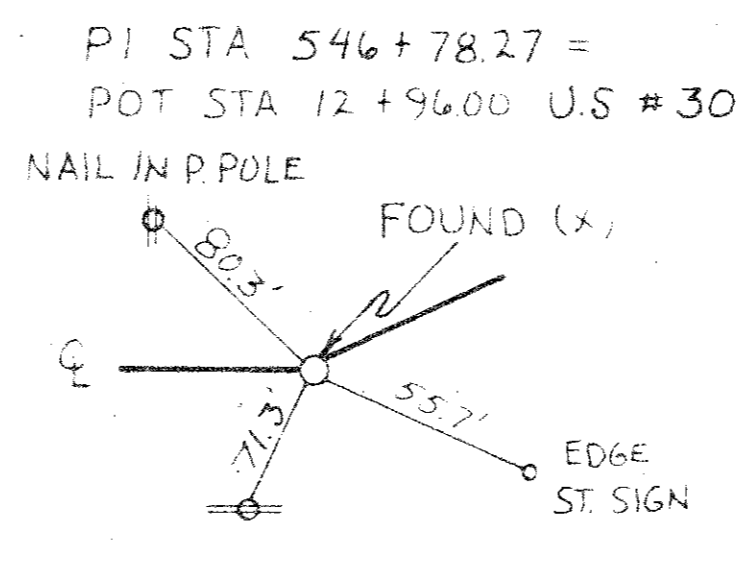
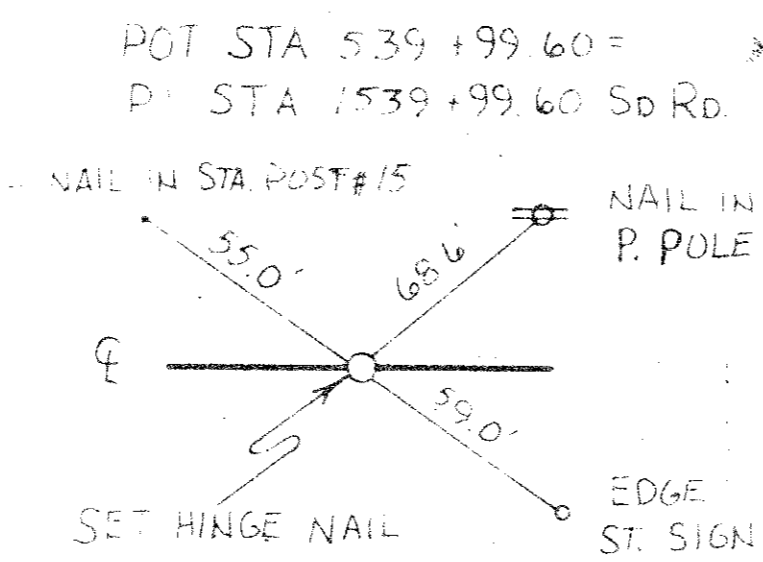
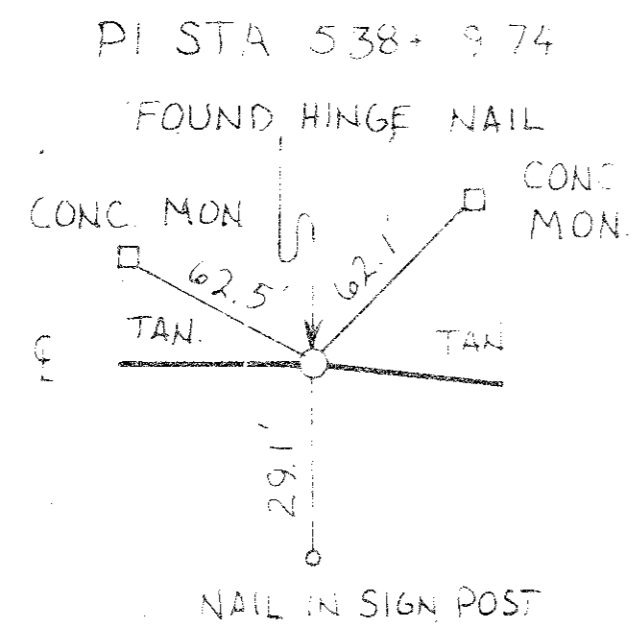
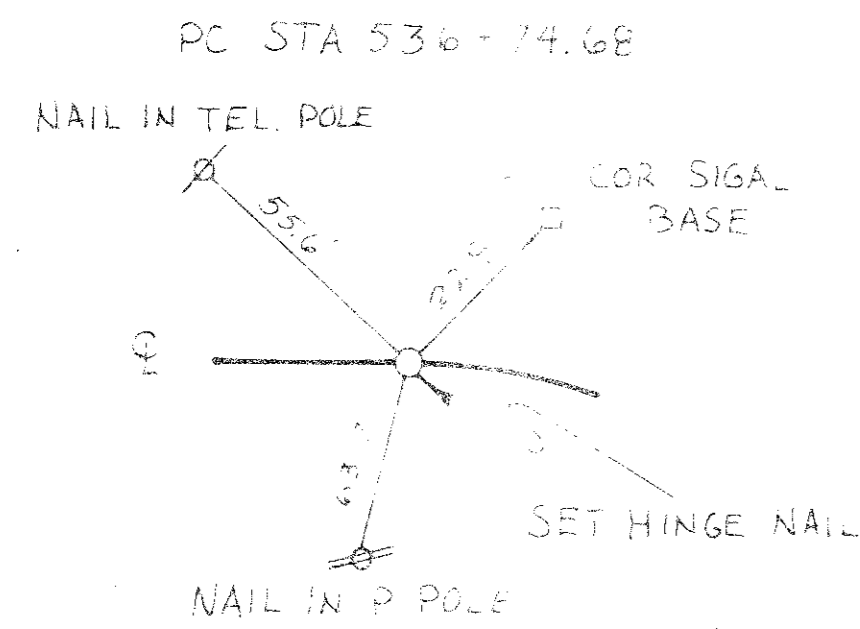
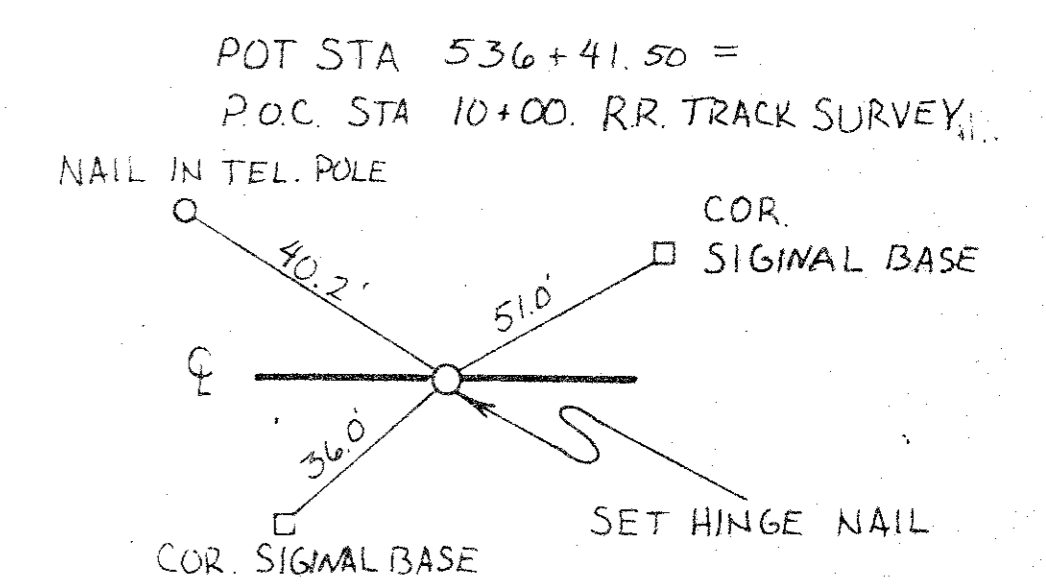
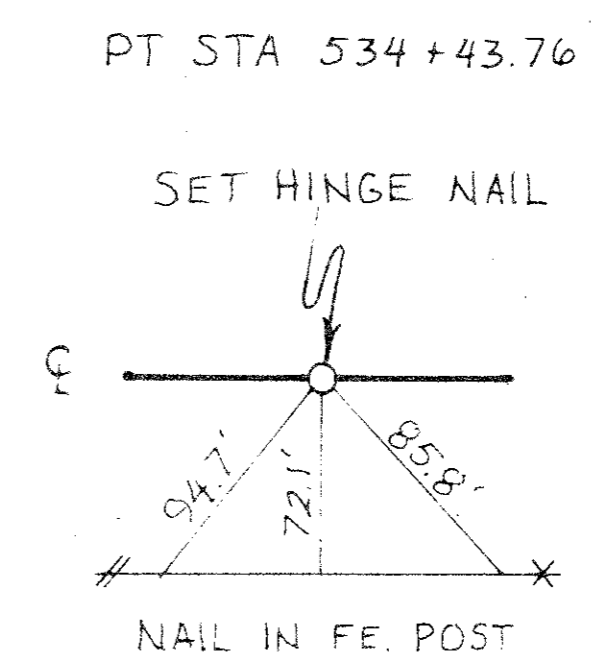
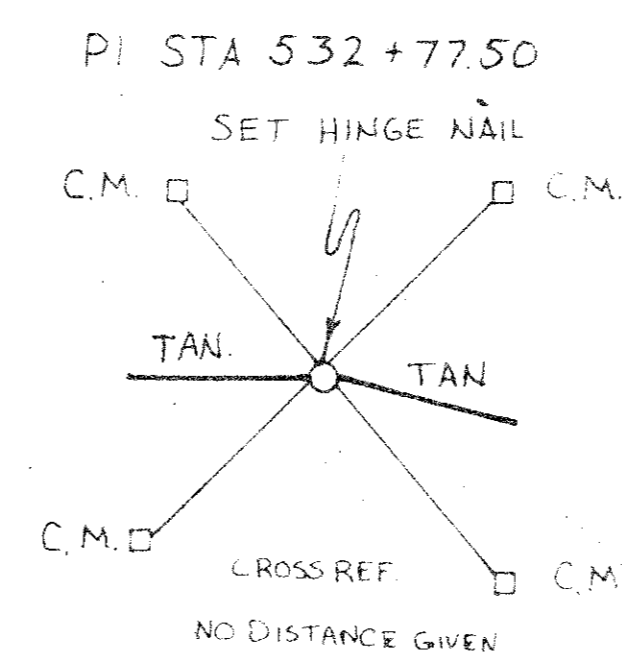
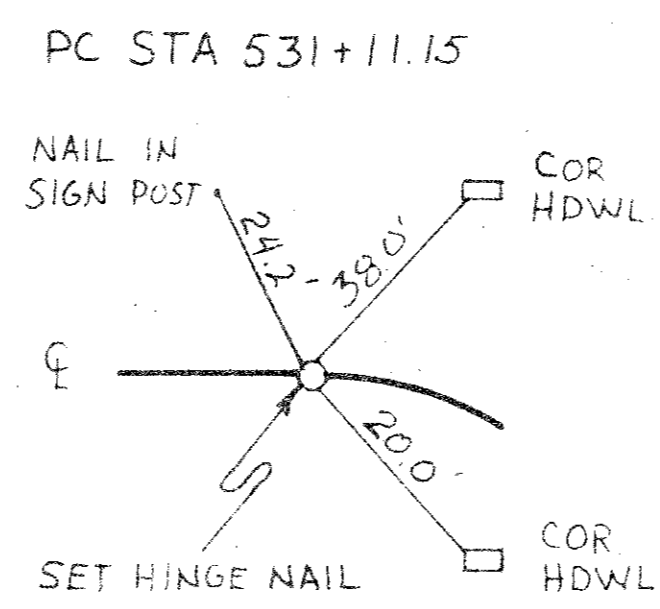
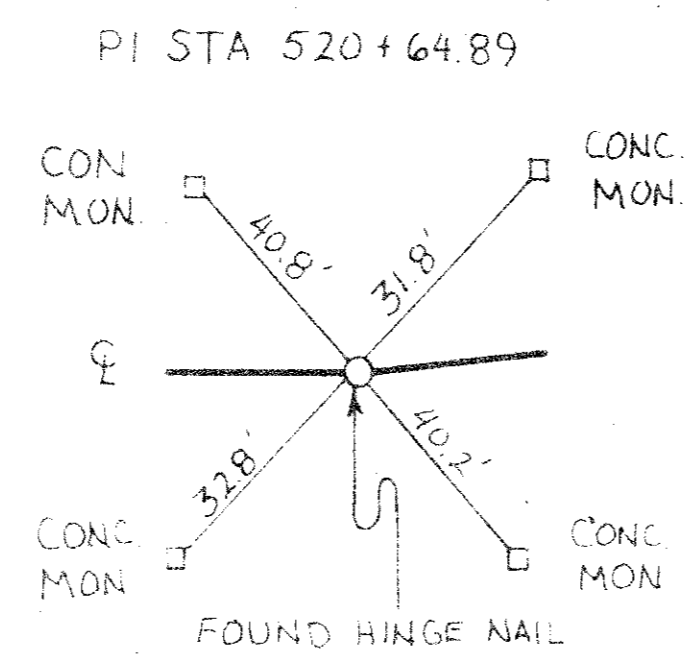
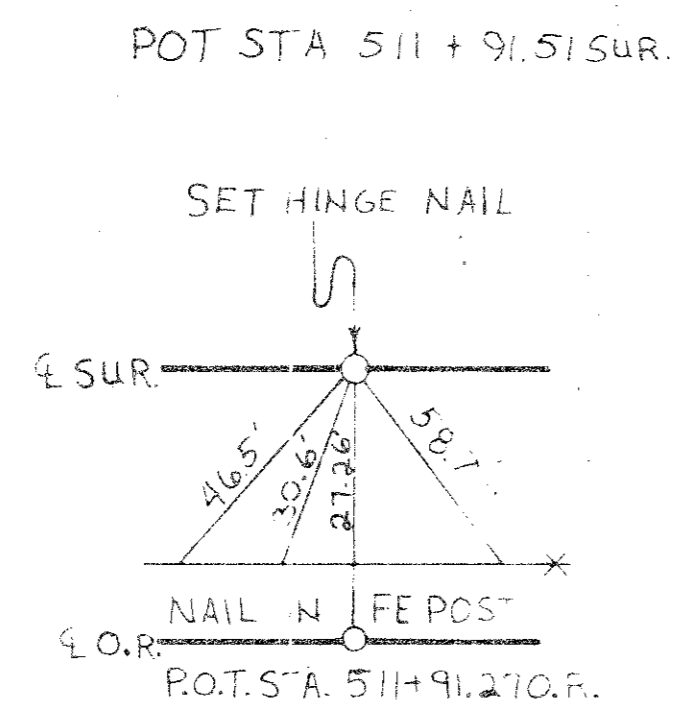
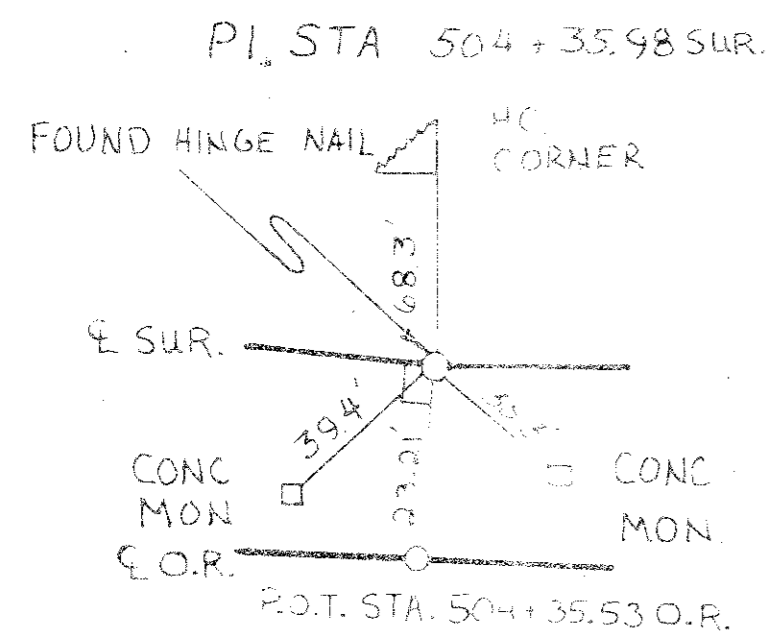
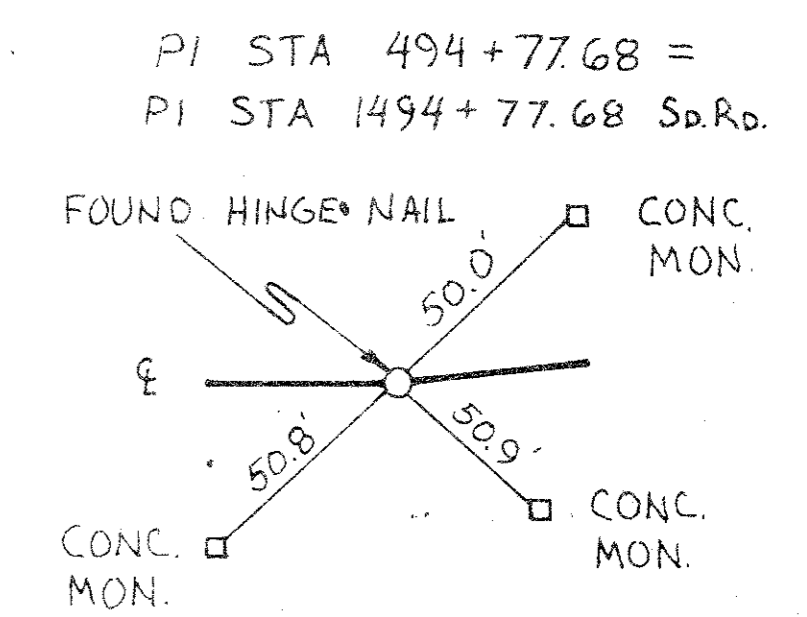
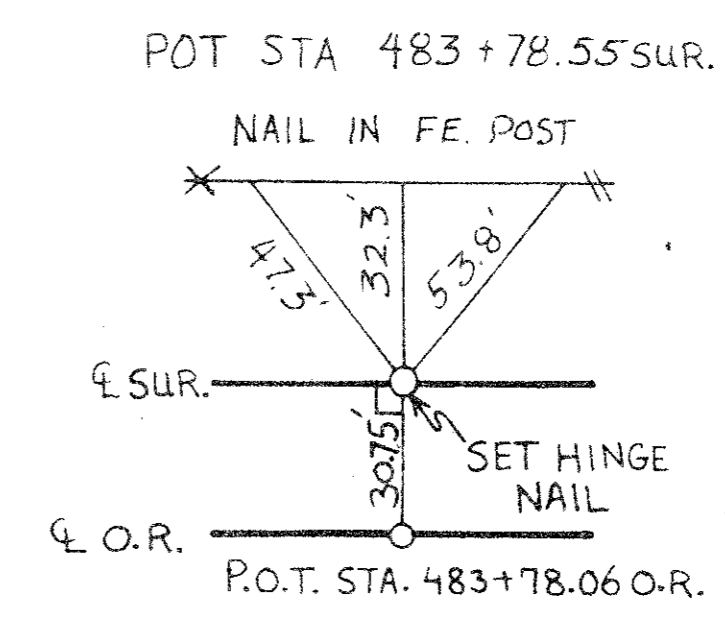
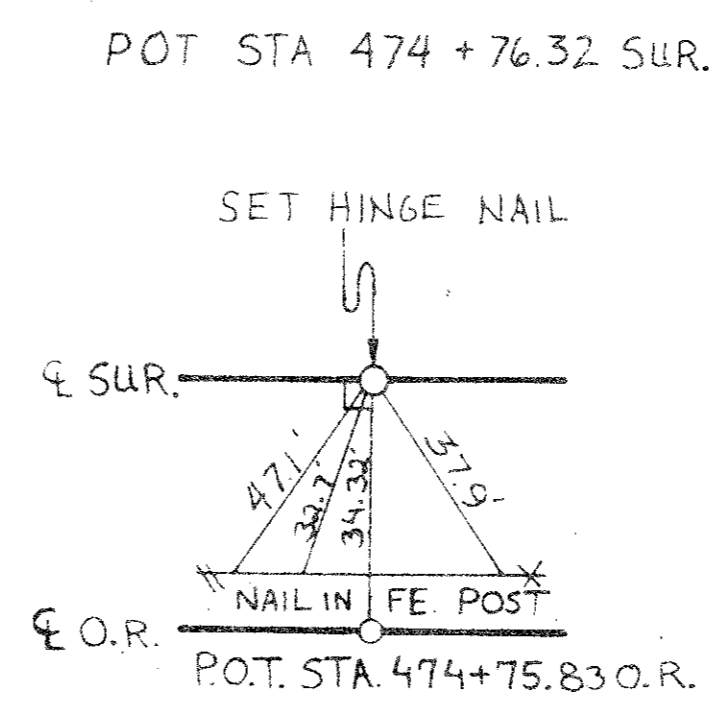
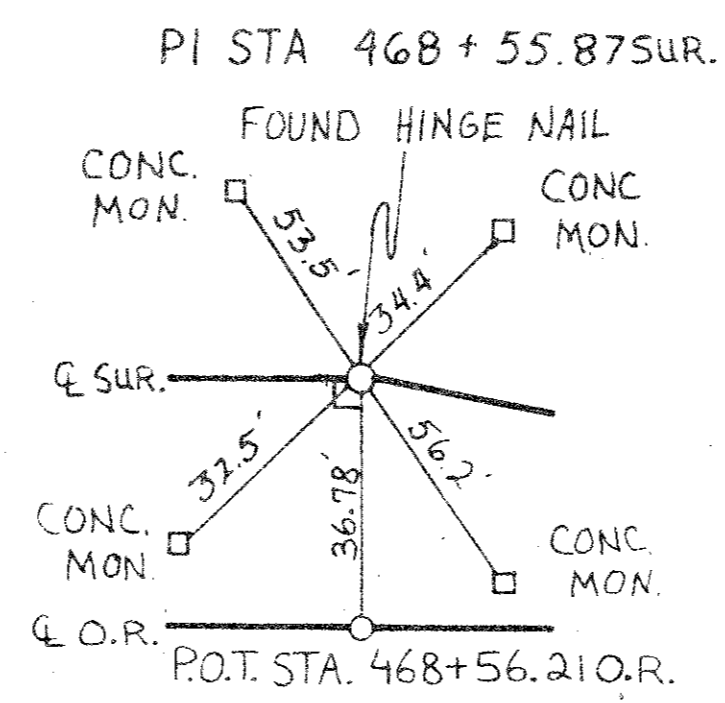
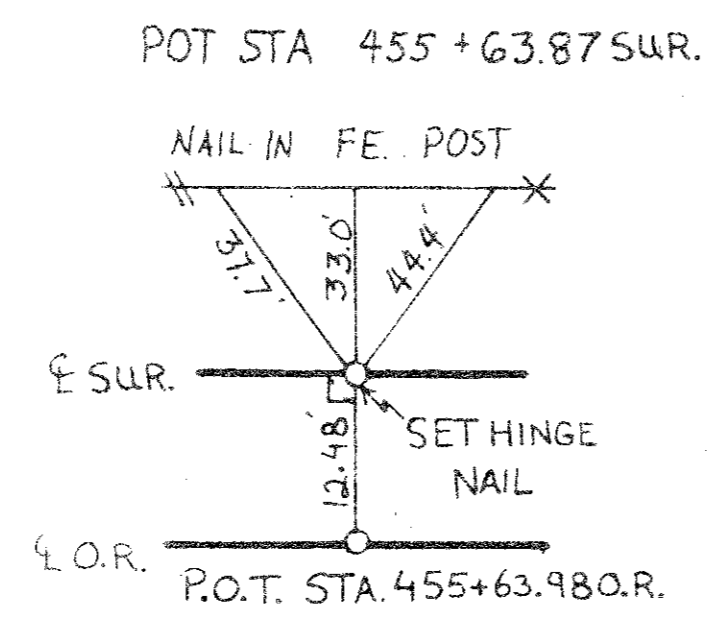
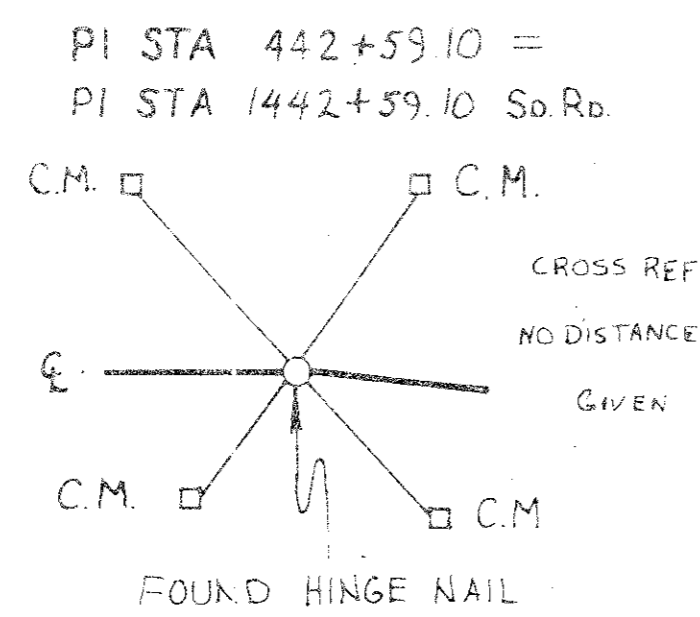
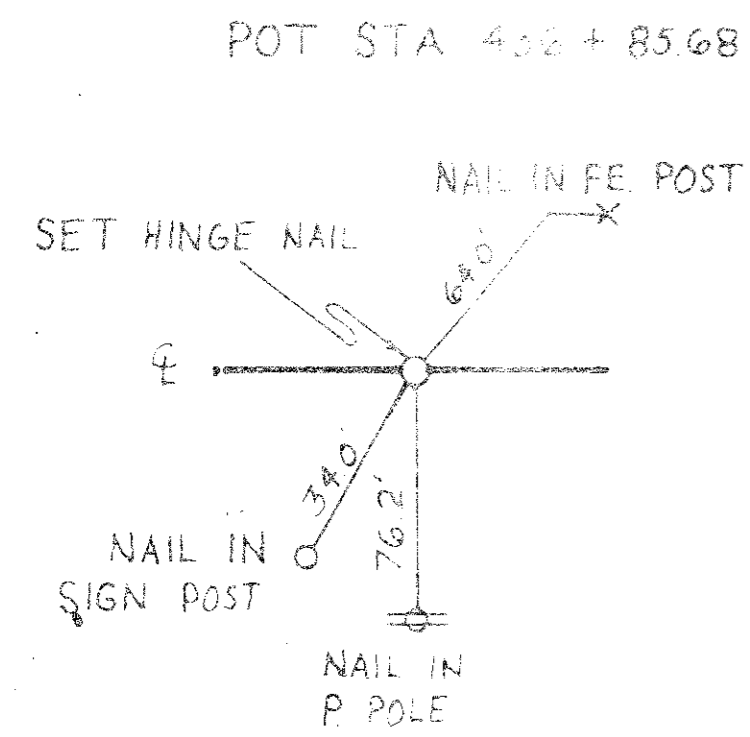
BENCH MARKS	ELEV.
BM #200 435+50 - 43' Rt.	Found I.H.C.B.M. Rt. Hdwl. twin 12' x 10 RC Box----- 909.25
BM #201 442+00 - 54' Rt.	Set R.R. spk. in w. side p. pole rt.----- 908.17
BM #202 454+28.6 - 16' Rt.	Cut (x) on rt. hdwl. 3' x 2.6' R.C. Box----- 923.17
BM #203 464+51 - 18' Lt.	Cut (x) lt. hdwl. 3' x 3' R.C. Box----- 930.58
BM #204 480+64 - 17' Rt.	Found (x) rt. hdwl. 3' x 2.6' R.C. Box = B.M. #95 Elev. 969.47---- 962.19
BM #205 495+08 - 30' Lt.	Set R.R. spk. in E. side p. pole lt.----- 976.51
BM #206 503+95 - 30' Rt.	USC & GS sta. conc. mon. dillon #1----- 986.96
BM #207 511+27 - 31' Lt.	Set R.R. spk. in e. side p. pole lt.----- 955.56
BM #208 523+42 - 15' Lt.	Cut (x) lt. hdwl. 3' x 3.5' R.C. box----- 910.65
BM #209 533+22 - 21' Rt.	Found (x) rt. hdwl. 6' x 3' R.C. Box----- 895.33
BM #210 539+07 - 58' Lt.	Set R.R. spk. e. side p. pole lt.----- 913.02
BM #211 546+52 - 67' Rt.	Found R.R. spk. s. side luminaird pole rt.----- 920.05
BM #212	Cut "X" on east end of conc. block----- 893.25
BM #213	Cut (x) on old signal base----- 878.00
USC & GS #E 83 1934	At quarry, Marshall county 10 poles east of the Chicago & Northwestern railway station, 5 poles west of mile post 145, at 150 foot steel bridge 439, in the north end of the west concrete abutment, 10 feet north of the centerline of the north main track, and about 1 foot lower than the rail. A standard disc, stamped "E 83 1934"----- 872.87

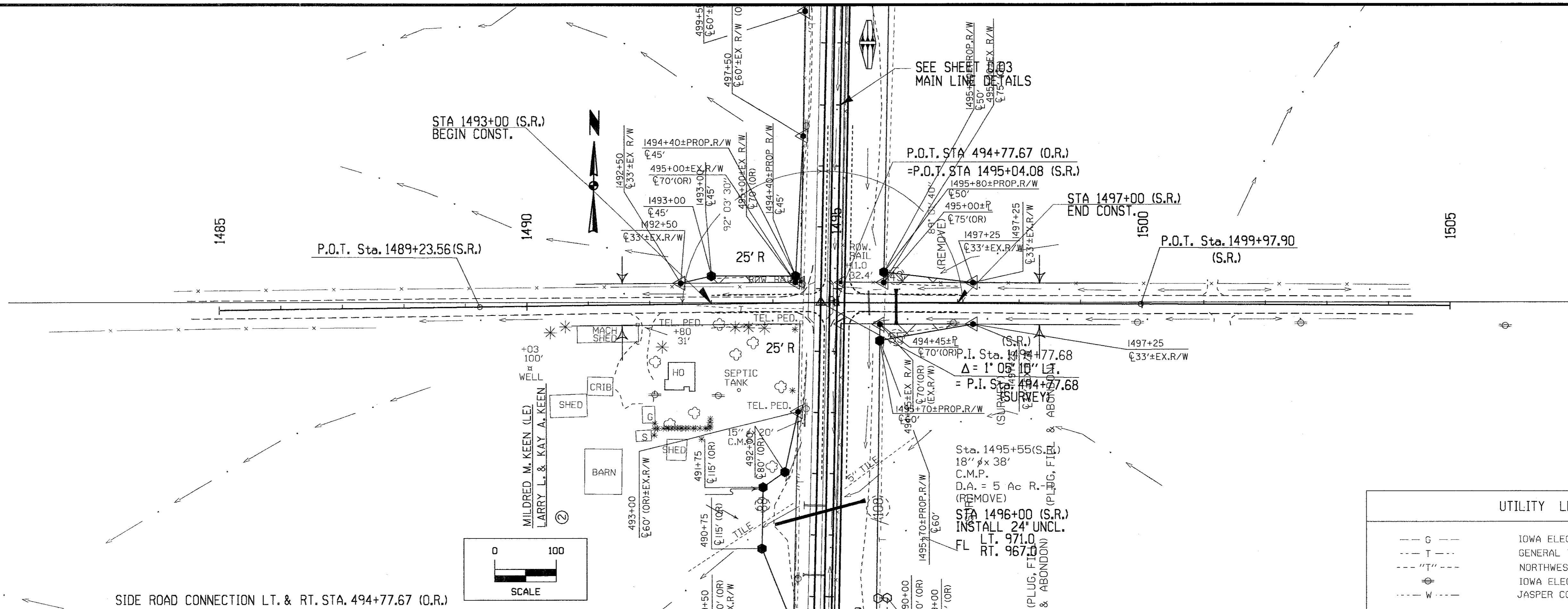
85300

LDGT 2000-316920

MARSHALL COUNTY

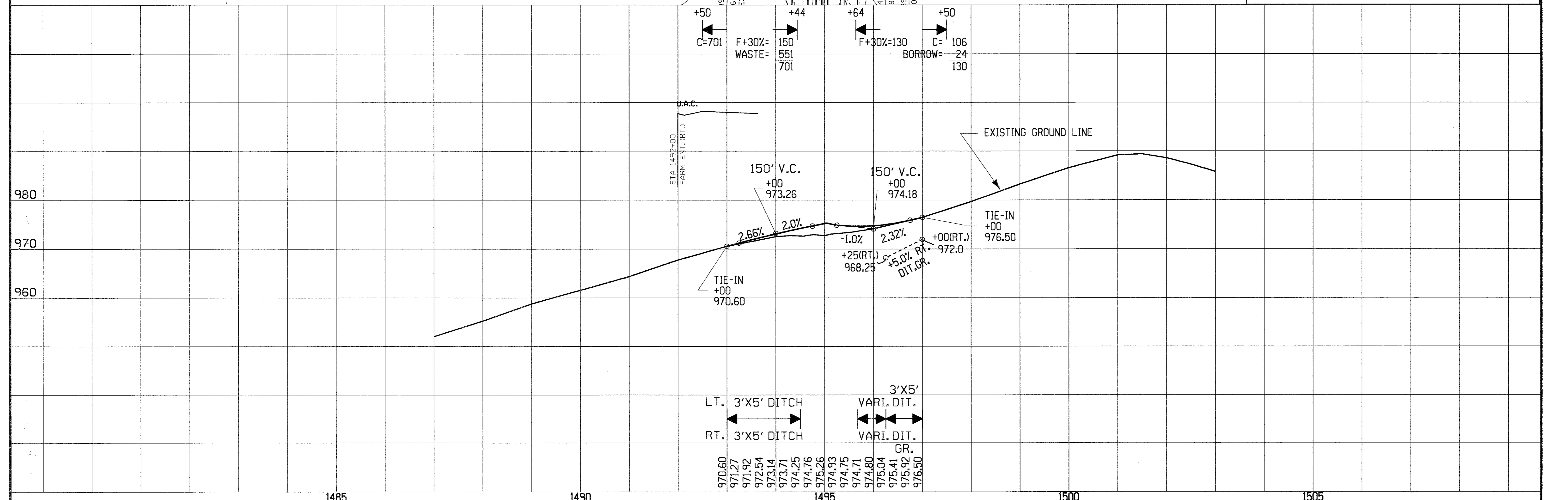
PROJECT NUMBER	STATE	FHWA Region	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
F-146-4(8)--20-64	IOWA	7		6.01	

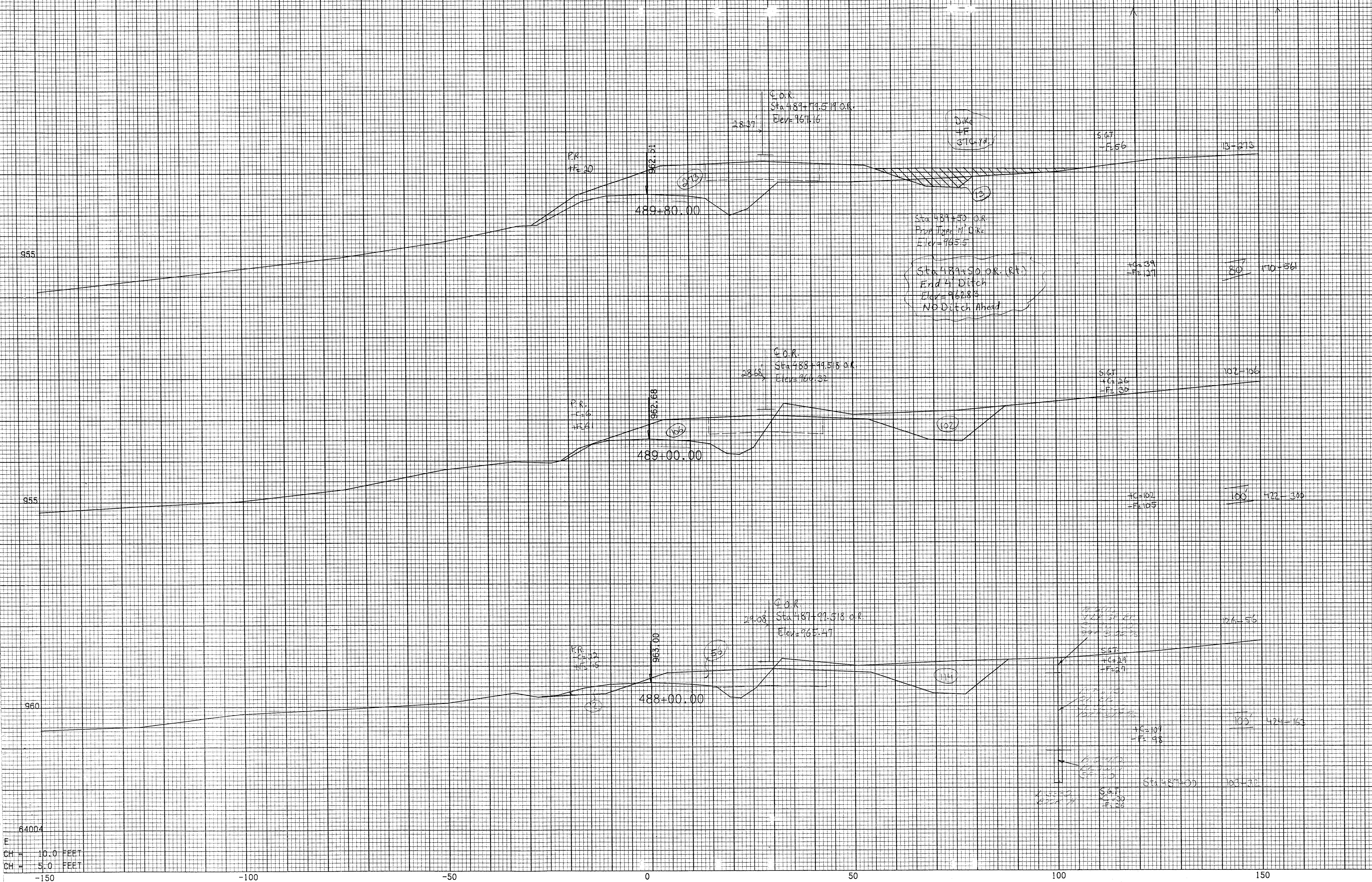




UTILITY LEGEND	
---	IOWA ELEC. LIGHT & POWER
---	GENERAL TELEPHONE CO.
---	NORTHWESTERN BELL
---	IOWA ELEC. LIGHT & POWER
---	JASPER CO. WATER ASSOCIATION

SIDE ROAD CONNECTION LT. & RT. STA. 494+77.67 (O.R.)





64004
 F
 CH = 10.0 FEET
 CH = 5.0 FEET
 -150 -100 -50 0 50 100 150

955

950

-150

-100

-50

0

50

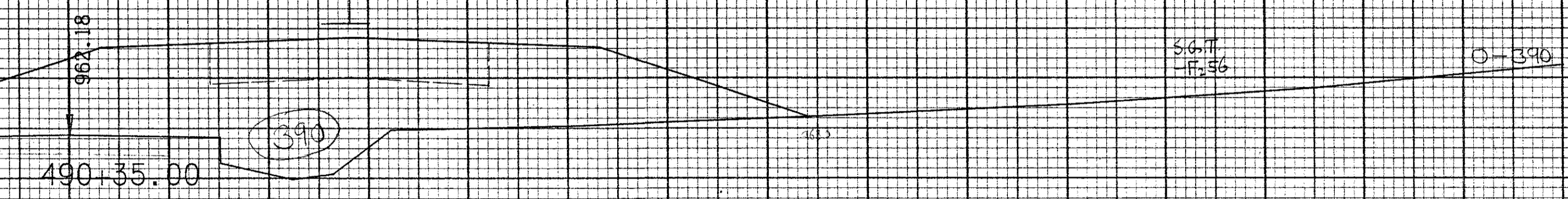
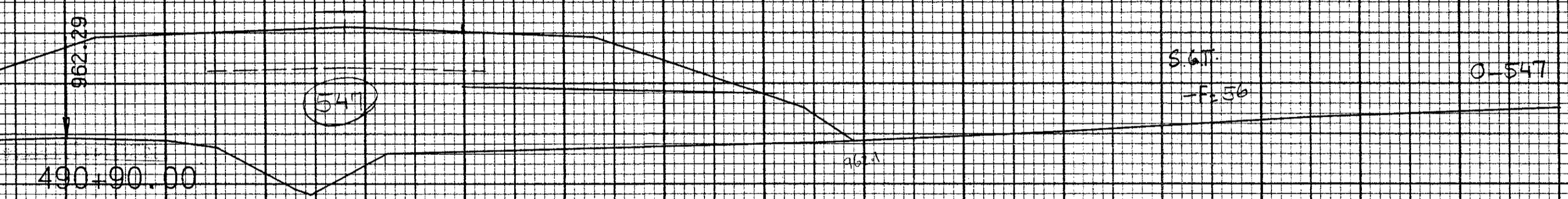
100

150

27.93' F.O.R.
 Sta 490+87.528 O.R.
 Elev = 968.55

28.15' F.O.R.
 Sta 490+84.590 O.R.
 Elev = 967.82

Sta 491+00 O.R. (K1)
 V.M. Ahead
 NO Ditch Back



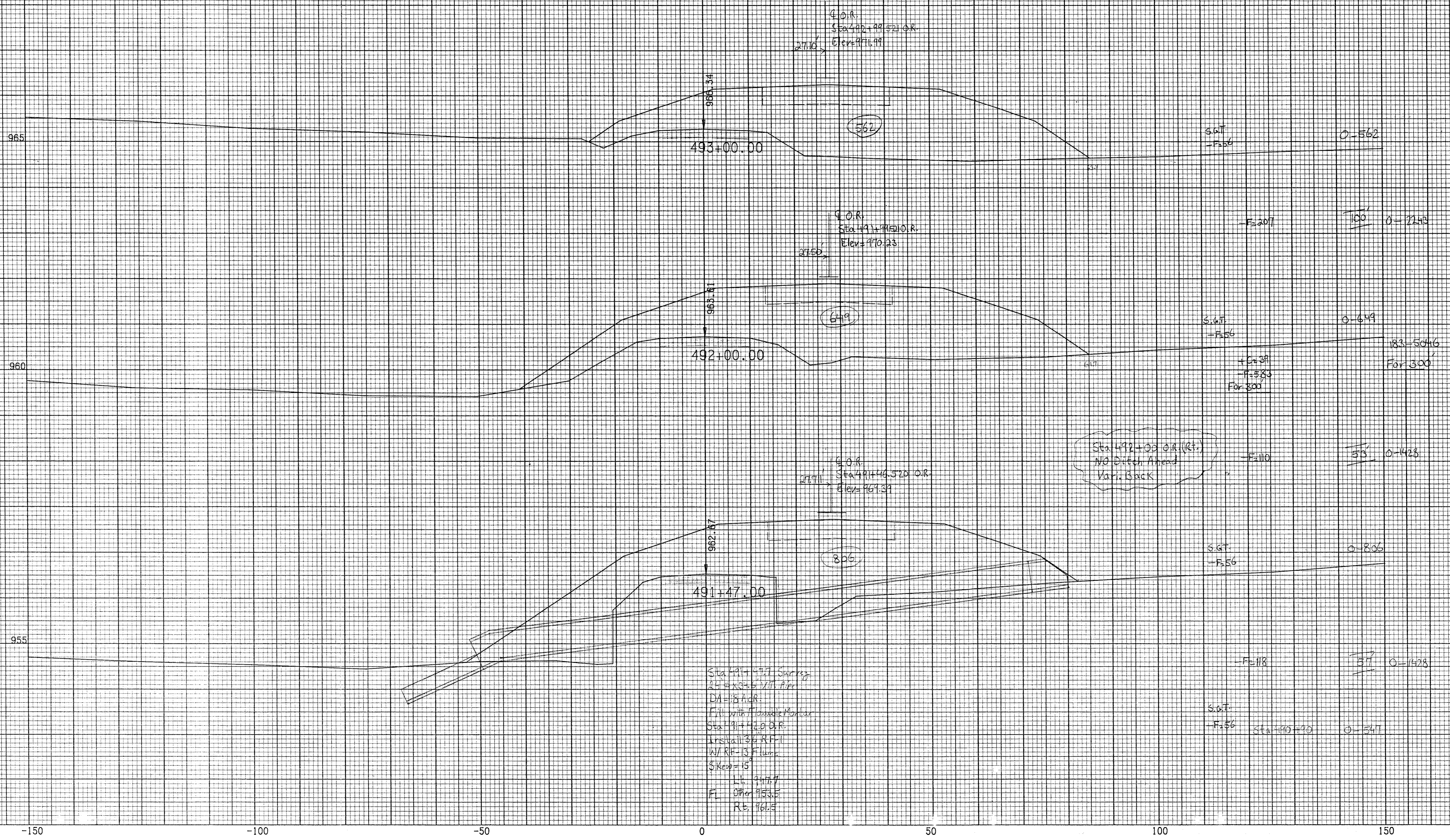
Sta 490+35 Survey
 Existing 15x15x30" R.C.C.
 O.R. = 16.00'
 F.L. = 967.13
 R.L. = 967.07
 (Break Top, fill and Compact)

S.G.M. -F=114 O-954

S.G.M. -F=56 O-390

-F=114 O-675

S.G.M. -F=58 Sta 489+50 O-273



-150

-100

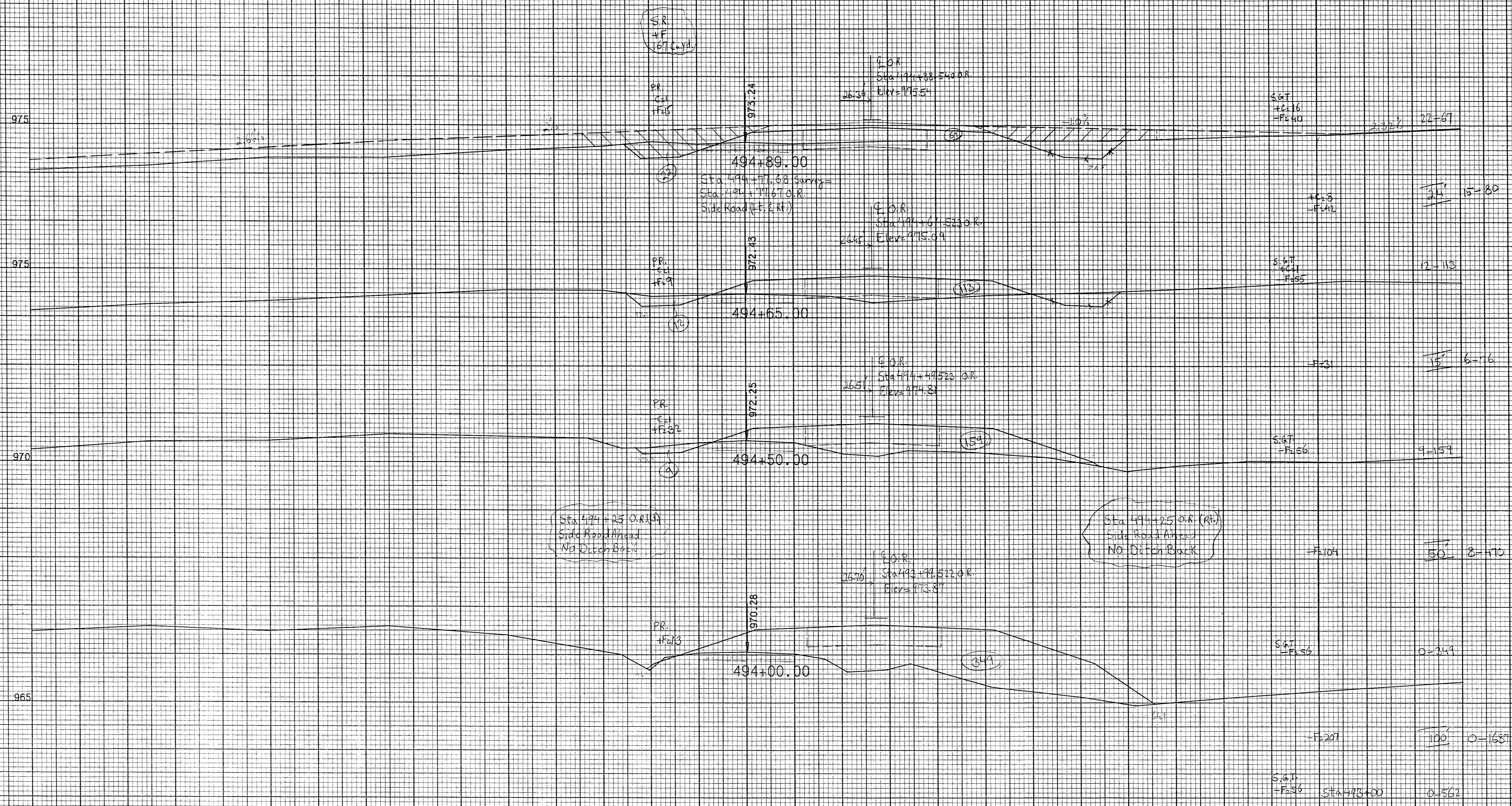
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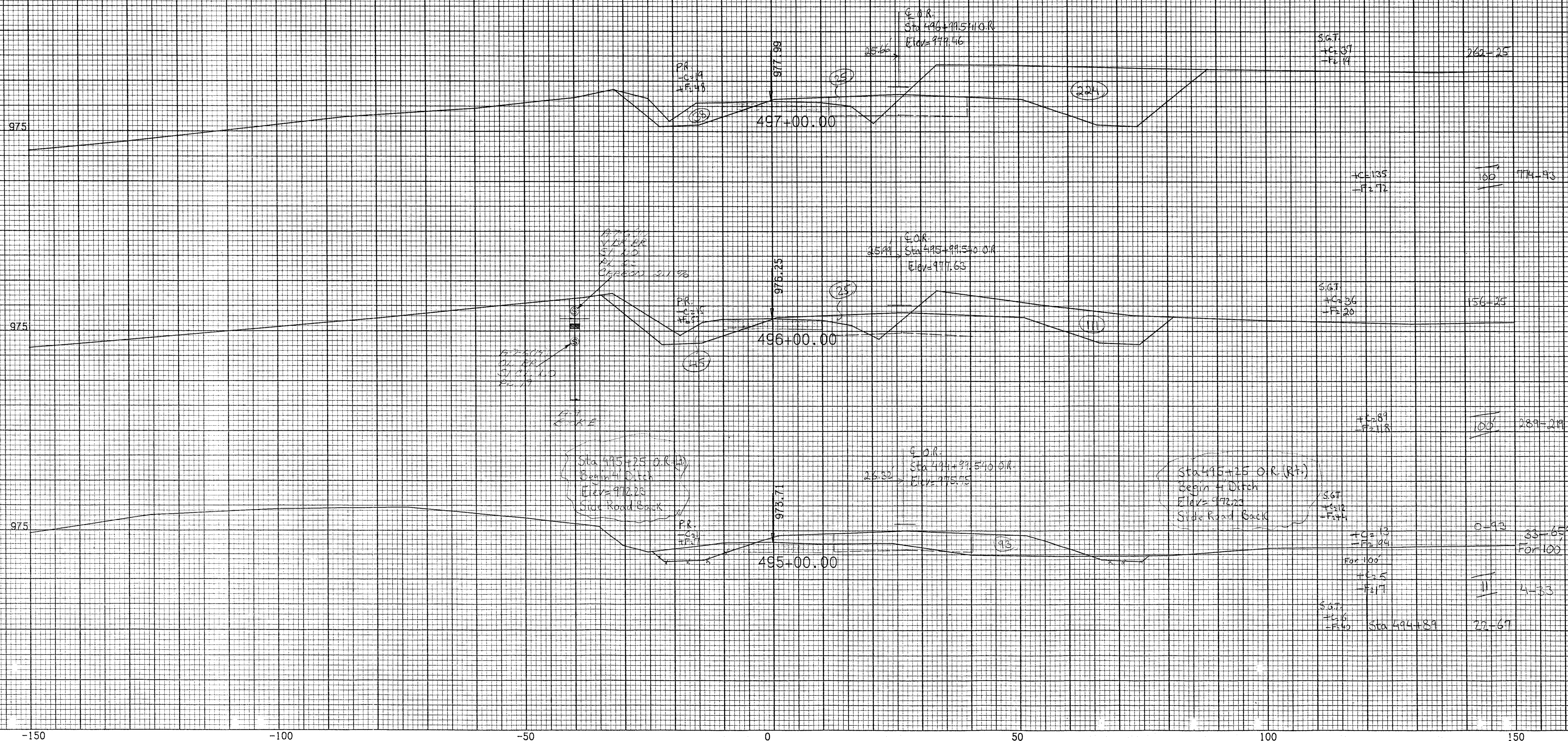
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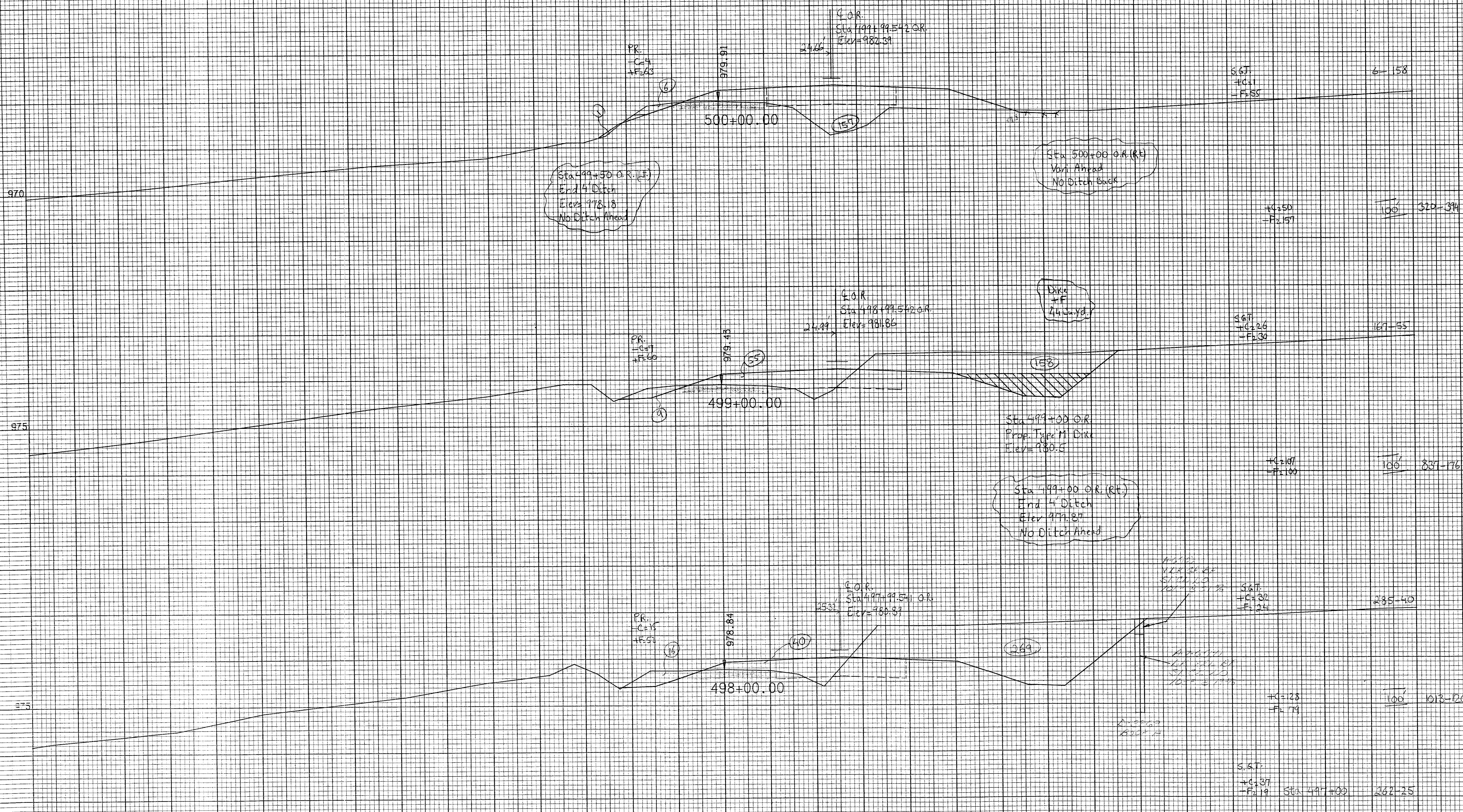
50

100

150







JOB NO. 21304
 SCALE
 1" = 10.0 FEET
 1" = 5.0 FEET
 -150

-150 -100 -50 0 50 100 150

975

970

970

Sta 502+50.0 R. (L.)
 Begin + 1.0' Ditch grade
 Elev = 976.63
 No Ditch Back

P.R.
 C=11
 F=55

Q.O.R.
 Sta 501+99.543 O.R.
 Elev = 982.08

S.G.T.
 C=28
 F=25

502+00.00

(100)

(100)

128-35

C=55
 F=152

100' 2-6--00

Q.O.R.
 Sta 500+99.543 O.R.
 Elev = 982.46

P.R.
 C=2
 F=50

501+00.00

(100)

(100)

5-186 16-911

For 100'

S.G.T.
 C=2
 F=54

C=4
 F=205
 For 100'

Sta 500+53.50 Survey
 24" x 35" VME Pipe
 DA = 3 ACR
 Remove
 Sta 500+53 O.R.
 Install 2" R.F.-1
 L. 471.0
 R. 471.8

P.R.
 C=2
 F=33

Q.O.R.
 Sta 500+52.543 O.R.
 Elev = 982.48

Sta 501+00 O.R. (R.)
 Begin 4' Ditch
 Elev = 978.46
 Varm Back

500+53.00

(50)

(25)

S.G.T.
 C=1
 F=55

5-321

C=2
 F=108

100' 2-4-70

S.G.T.
 C=55
 F=55

Sta 500+53

6-155

-150

-100

-50

0

50

100

150

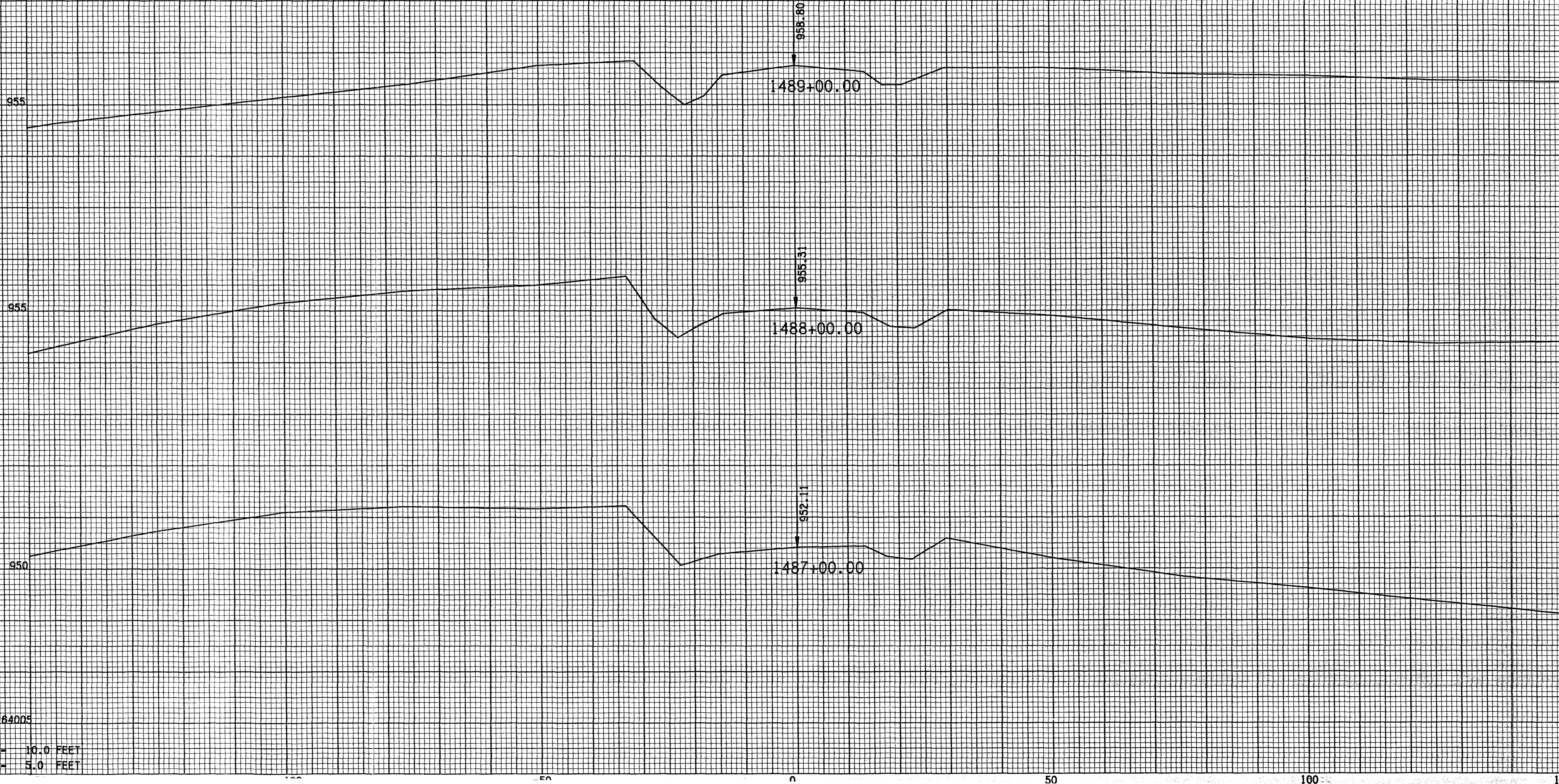
GRID PAPER

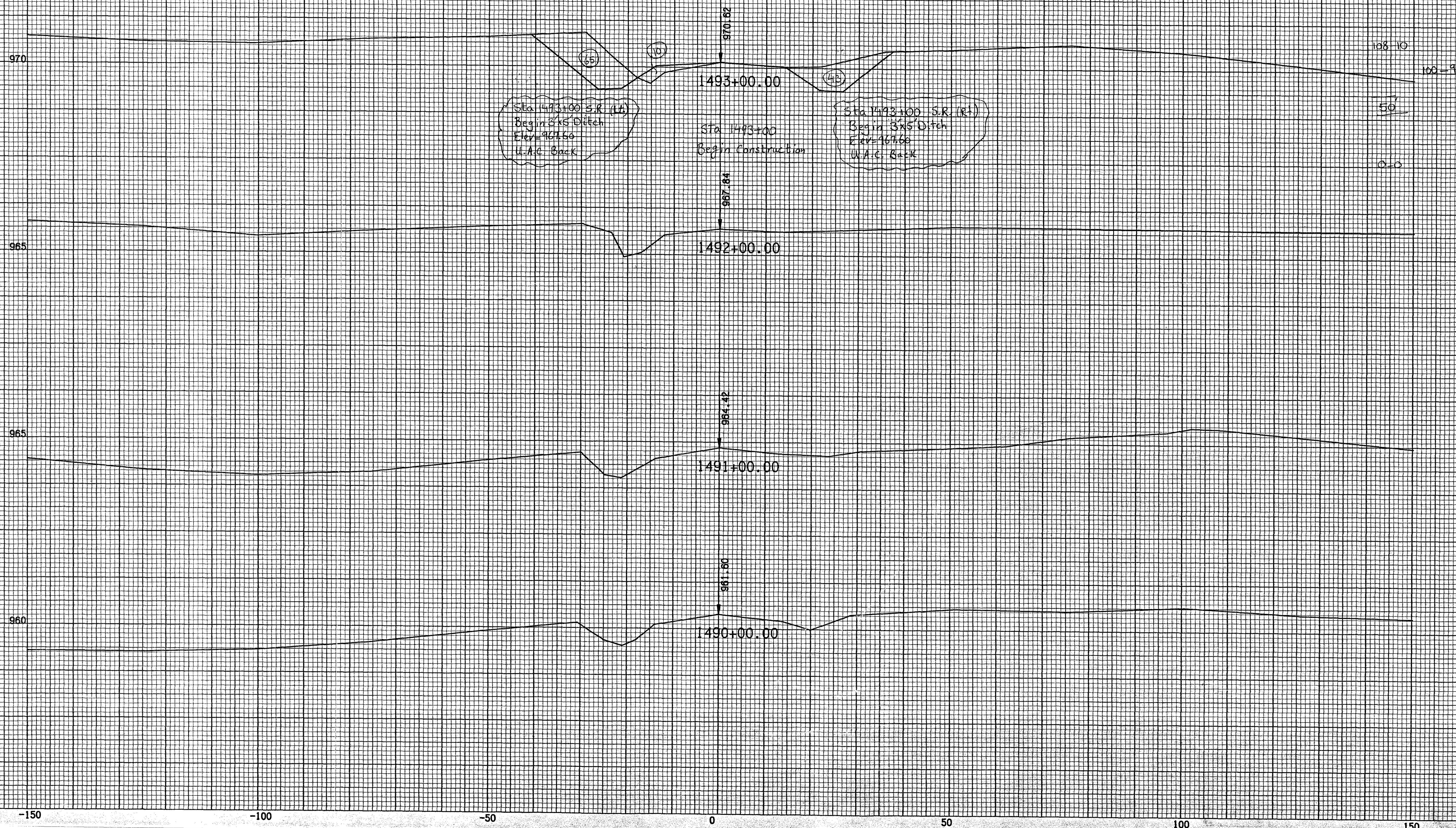
JOB NO. 64005

SCALE

H = 1 INCH = 10.0 FEET

V = 1 INCH = 5.0 FEET





Sta. 1493+00 S.R. (L)
Begin 3x5 Ditch
W.A.C. Back
Elev=967.66

Sta. 1493+00
Begin Construction

Sta. 1493+00 S.R. (R)
Begin 3x5 Ditch
W.A.C. Back
Elev=967.66

970

965

965

960

1493+00.00

1492+00.00

1491+00.00

1490+00.00

108-10

100-9

50

0-0

-150

-100

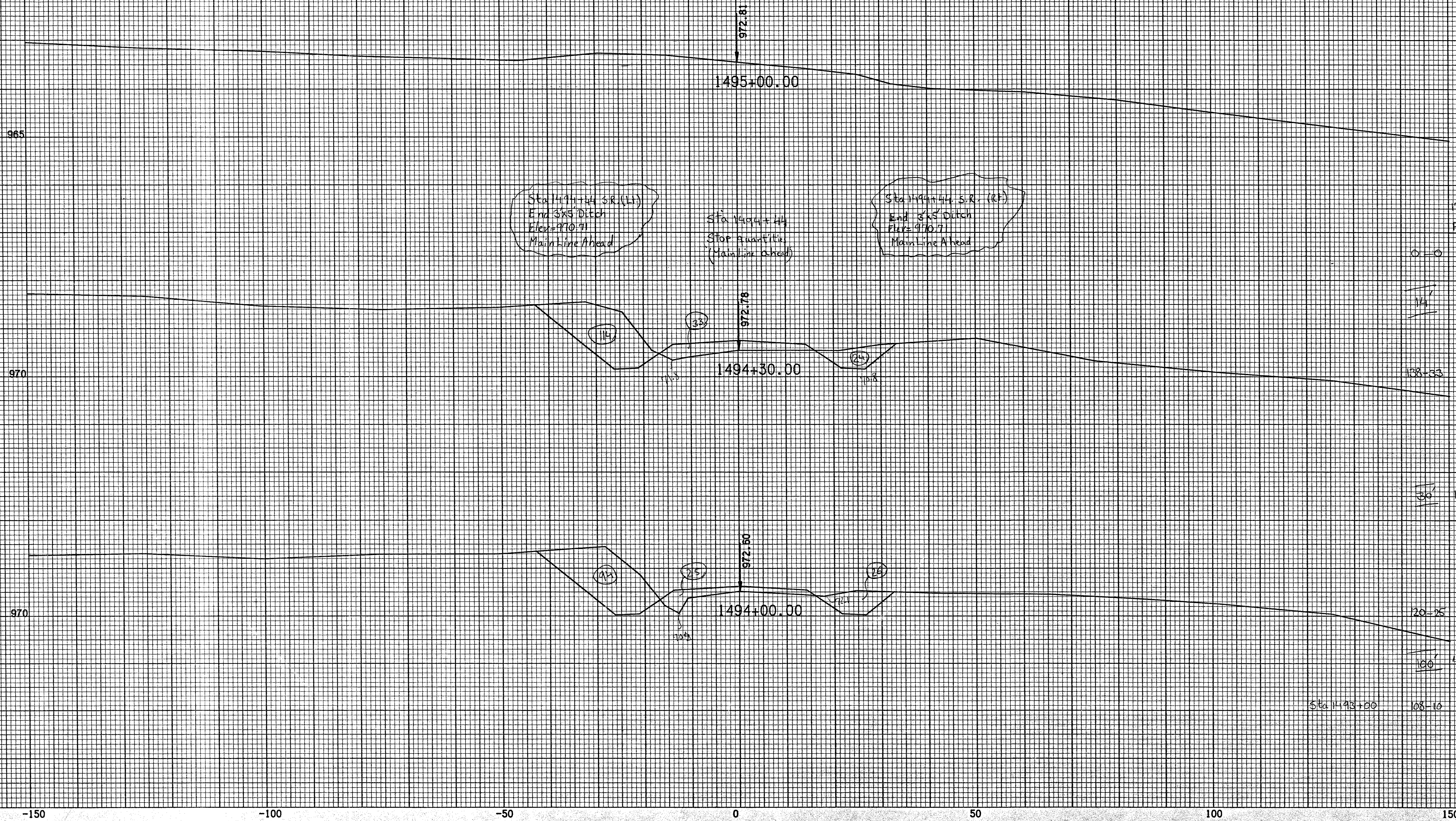
-50

0

50

100

150



Sta 1494+44 S.R. (L)
 End 3x5 Ditch
 Elev=970.71
 Main Line Ahead

Sta 1494+44
 Stop quadrant
 (Main Line Ahead)

Sta 1494+44 S.R. (R)
 End 3x5 Ditch
 Elev=970.71
 Main Line Ahead

179-41
 For 44

138-33

133-32

120-25

100-65

Sta 1493+00 108-60

-150

-100

-50

0

50

100

150

965

Sta 1495+75 O.R. (LH)
Vari. Ahead
Main line Back

1495+55.00

973.48

Sta 1495+55 (S.R.)
Skew 18° x 38' C.M.P.
DA = 5 Acft
FL LH 972.0
FL RH 969.6
Remove
Sta 1496+00 (S.R.)
Install 24" x 24"
FL LH 971.0
FL RH 967.0

Sta 1495+75 O.R. (RH)
Vari. Ahead
Main line Back

965

1495+12.00

973.16

-150

-100

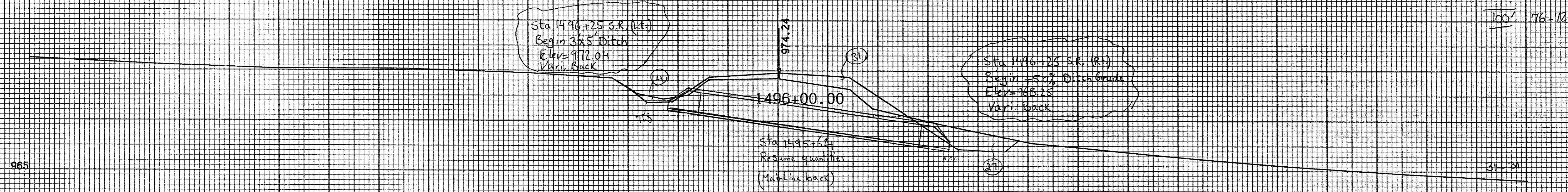
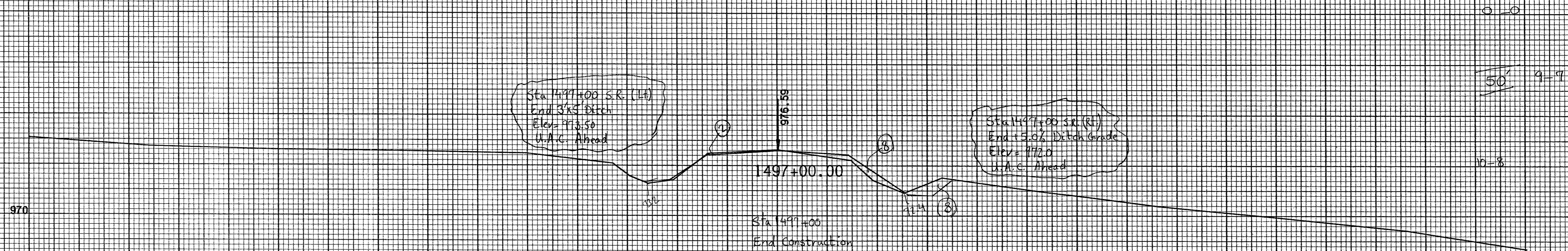
-50

0

50

100

150



975

970

1499+00.00

1498+00.00

983.29

979.69

JOB NO. 64005
SCALE
H - 1 INCH = 10.0 FEET
V - 1 INCH = 5.0 FEET

-150

-100

-50

0

50

100

150

985

1502+00.00

988.29

990

1501+00.00

989.22

980

1500+00.00

986.58

-150

-100

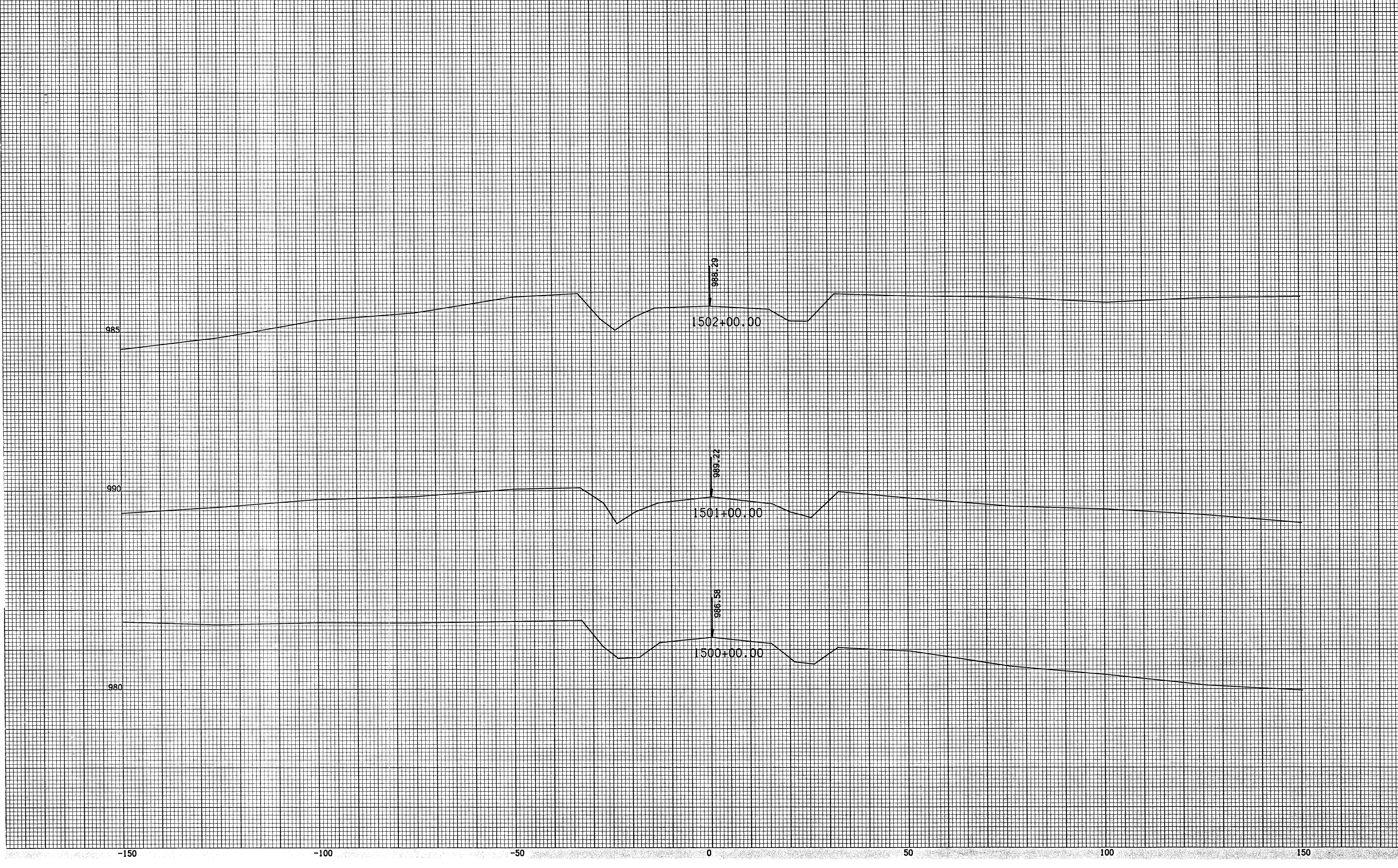
-50

0

50

100

150



985

985.86
1503+00.00

-150

-100

-50

0

50

100

150

