

FOR INDEX
SEE SHEET # 2

STATE OF VERMONT AGENCY OF TRANSPORTATION

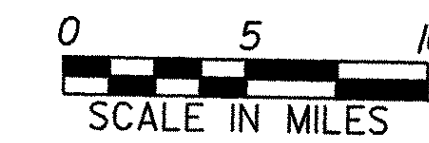
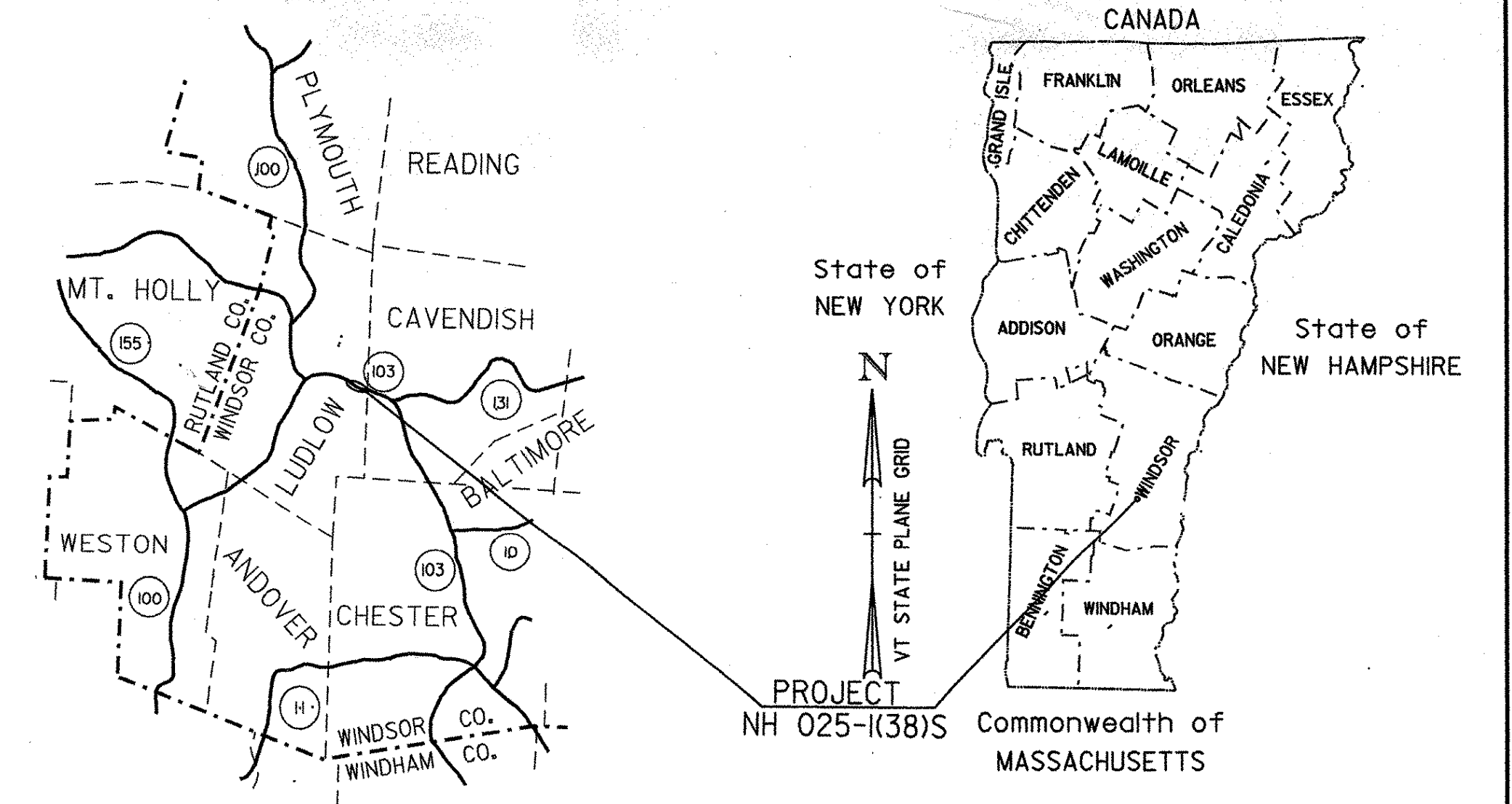


PROPOSED IMPROVEMENT TOWN OF LUDLOW COUNTY OF WINDSOR VT. ROUTE 103 (N.H.S.) PRINCIPAL ARTERIAL

BEGINNING AT A POINT ON VT. ROUTE 103, IN THE TOWN OF LUDLOW, 0.705 MILES NORTHWEST OF THE CAVENDISH-LUDLOW TOWN LINE AND EXTENDING NORTHWESTERLY 0.174 MILES.

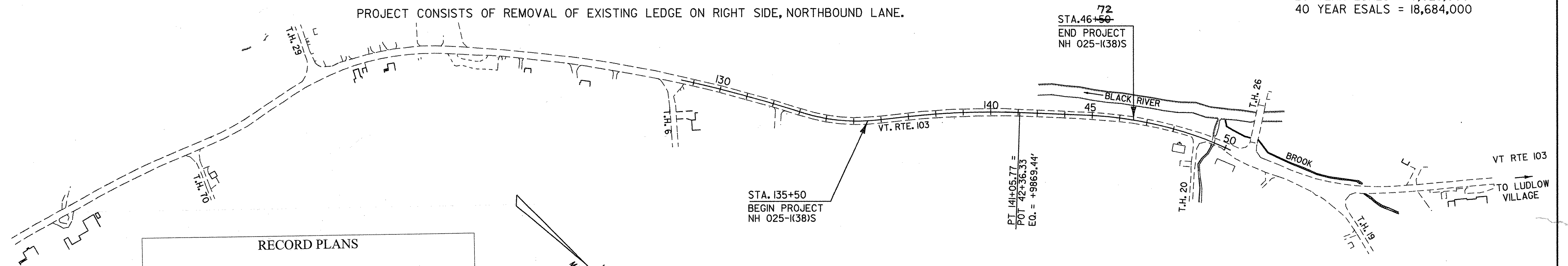
LENGTH OF ROADWAY 919.44 FEET = 0.174 MILES
LENGTH OF PROJECT 919.44 FEET = 0.174 MILES

PROJECT CONSISTS OF REMOVAL OF EXISTING LEDGE ON RIGHT SIDE, NORTHBOUND LANE.



TRAFFIC DATA

2000 ADT	=	8200
2000 DHV	=	890
2020 ADT	=	10700
2020 DHV	=	1200
2000 ADTT	=	600
2020 ADTT	=	940
D	=	51%
2000 T	=	5%
2020 T	=	6%
V	=	50 MPH
20 YEAR ESALS	=	7,029,000
40 YEAR ESALS	=	18,684,000



RECORD PLANS

CONTRACTOR: MORRIL CONSTRUCTION - NO. HAVERHILL, NH

RESIDENT ENGINEER: W. STODDARD

CONSTRUCTION BEGAN: MAY 5, 2000

CONSTRUCTION COMPLETE: OCTOBER 18, 2001

RECORD PLANS BY: CADD FINALS & W. STODDARD

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *[Signature]* RESIDENT ENGINEER

DATE 5-2-02

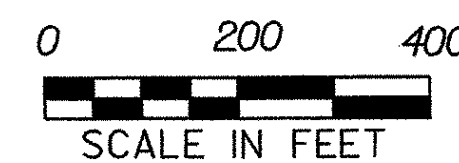
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.

CONVENTIONAL SYMBOLS

COUNTY LINE	— — — — —
TOWN LINE	— — — — —
LIMITS OF ACCESS	— o — o — o — o —
POINT OF ACCESS	X
FENCE LINE	X — X — X — X —
STONE WALL	o — o — o — o — o — o —
TRAVELED WAY	— — — — —
GUARD RAIL	— o — o — o — o —
RAILROAD	— — — — —
SURVEY LINE	— — — — —
CULVERT	— — — — —
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊕
CONTROL OF ACCESS	— // — // — // — // —
PROPERTY LINE	— — — — —
R.O.W. TAKING LINE	— SR — SR — SR —
SLOPE RIGHTS	— o — o — o — o —
TOP OF CUT	— Δ — Δ — Δ — Δ —
TOE OF SLOPE	— o — o — o — o —

SURVEYED BY : ORVIS
SURVEYED DATE : 9/15/97

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (92)



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROJECT DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROJECT DEVELOPMENT
APPROVED *[Signature]* DATE 3/27/00

PROJECT MANAGER : G.H. DUBRAY

PROJECT NAME : LUDLOW
PROJECT NUMBER : NH 025-(138)S

16-FEB-2000 DB076TLE SHEET 1 OF 31 SHEETS

INDEX OF SHEETS

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- 2. INDEX OF SHEETS
- 3. TYPICAL SECTIONS
- 4.-5. QUANTITY SHEETS
- 6. EARTHWORKS SHEET
- 7.-11. ROW DETAIL SHEETS
- 12.-15. PLAN SHEETS
- 16. PROFILE SHEET
- 17. TRAFFIC SIGN SUMMARY SHEET
- 18. PCC PATCH DETAILS
- 19.-31. MAINLINE CROSS SECTIONS

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E-164	PRELIMINARY SQUARE STEEL SIGN POST	05-20-99
E-191	PAVEMENT MARKING DETAILS	02-01-99
E-192	PAVEMENT MARKING DETAILS	12-28-98
E-193	PAVEMENT MARKING DETAILS	08-18-95
J-1	BOUNDARY MARKERS	06-01-94
T-1	TEMPORARY EROSION CONTROL DETAILS	06-01-94
T-2	TEMPORARY EROSION CONTROL DETAILS	06-01-94

DATUM	
VERTICAL	NAVD 1929
HORIZONTAL	ASSUMED

SURVEYED BY	ORVIS	DATE	9-97
DRAWN BY	SODB	DATE	9-98
SQUAD LEADER	DELLA SANTA		
DESIGN FILE NO.	SODB/97B076/DB076FRM.DGN		
IFIRM FILE	DB076IND	DATE PLOTTED	07-APR-2000
PROJ. NAME	LUDLOW		
PROJ. NO.	NH 025-(138)S		
SHEET	2	OF	31 SHEETS

ARCHIVED
IN DPR

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT	± 1/4"

TYPICAL SECTIONS

1/2" BITUMINOUS CONCRETE PAVEMENT, TYPE III - PG 64-28 (TRAVEL LANES AND SHOULDERS)
COLD PLANE 1/2" (EXISTING TRAVEL LANES AND SHOULDERS)

NOTE: BITUMINOUS CONCRETE PAVING AND COLD PLANING TO BE PERFORMED ONLY IF EXCESSIVE DAMAGE OCCURS TO THE ROADWAY FROM THE BLASTING OPERATION, OR AS DIRECTED BY THE ENGINEER.

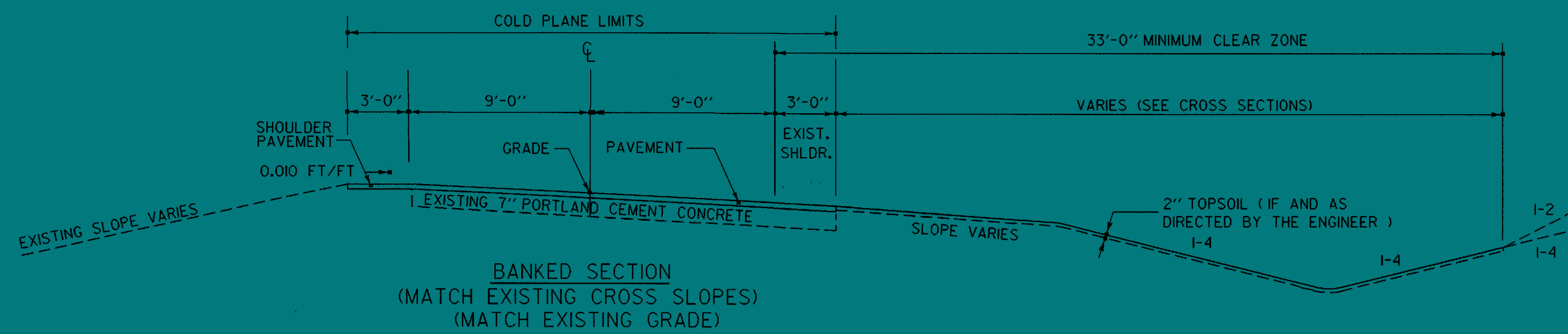
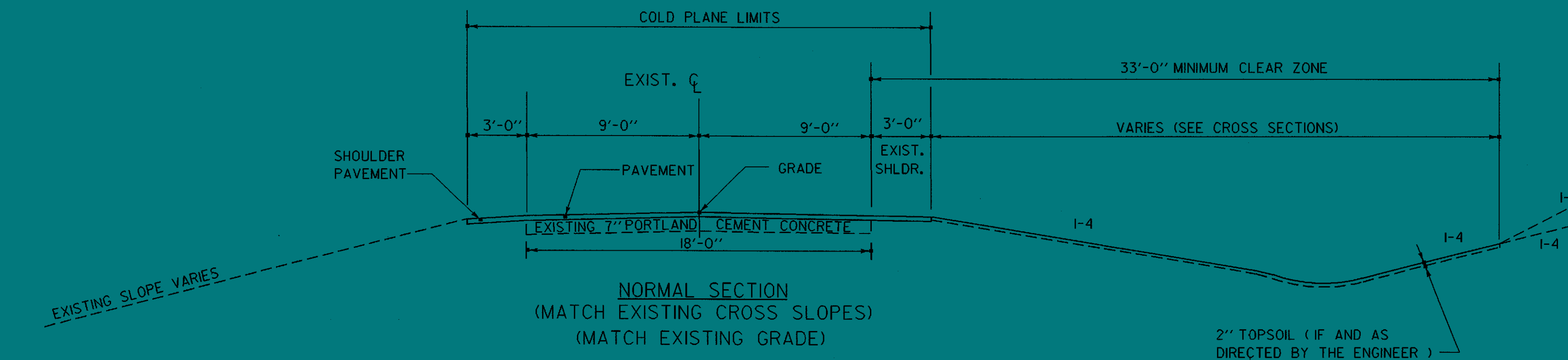
SEEDING FORMULA URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

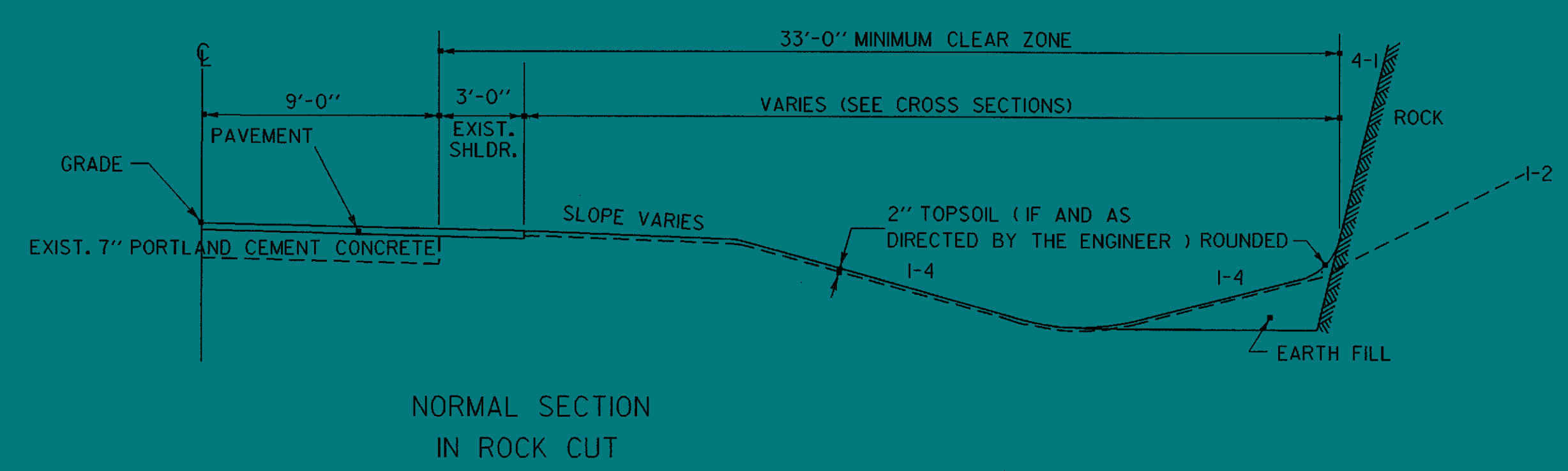
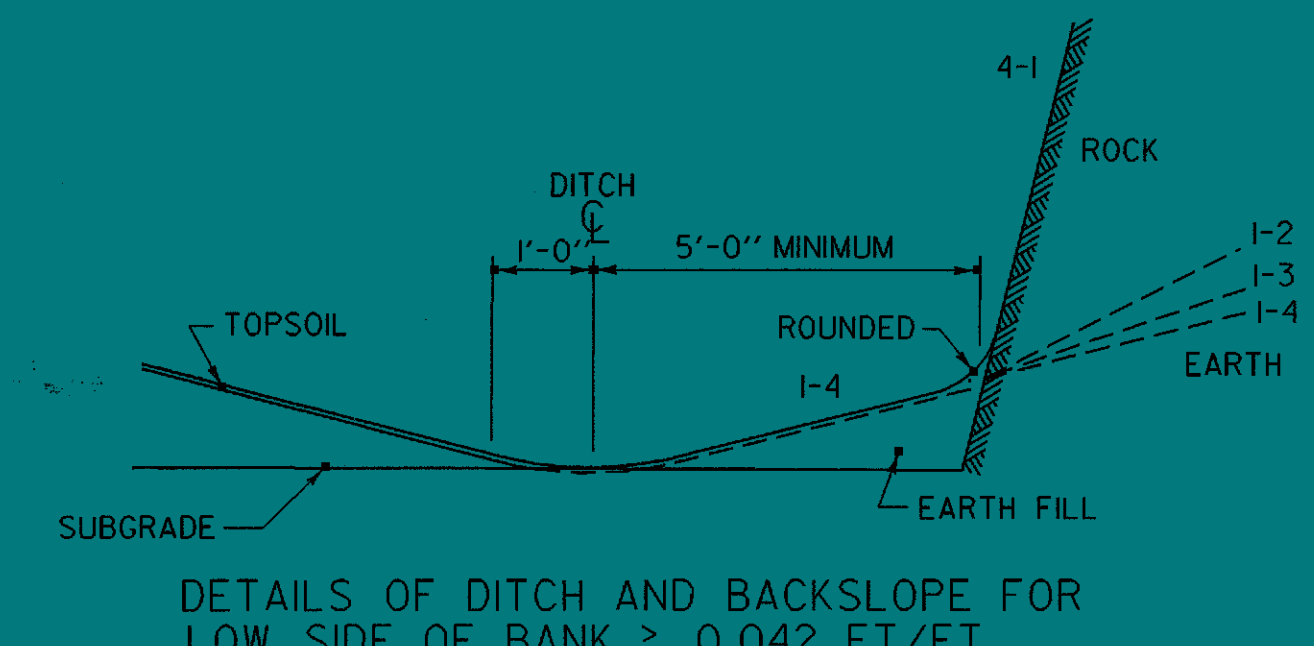
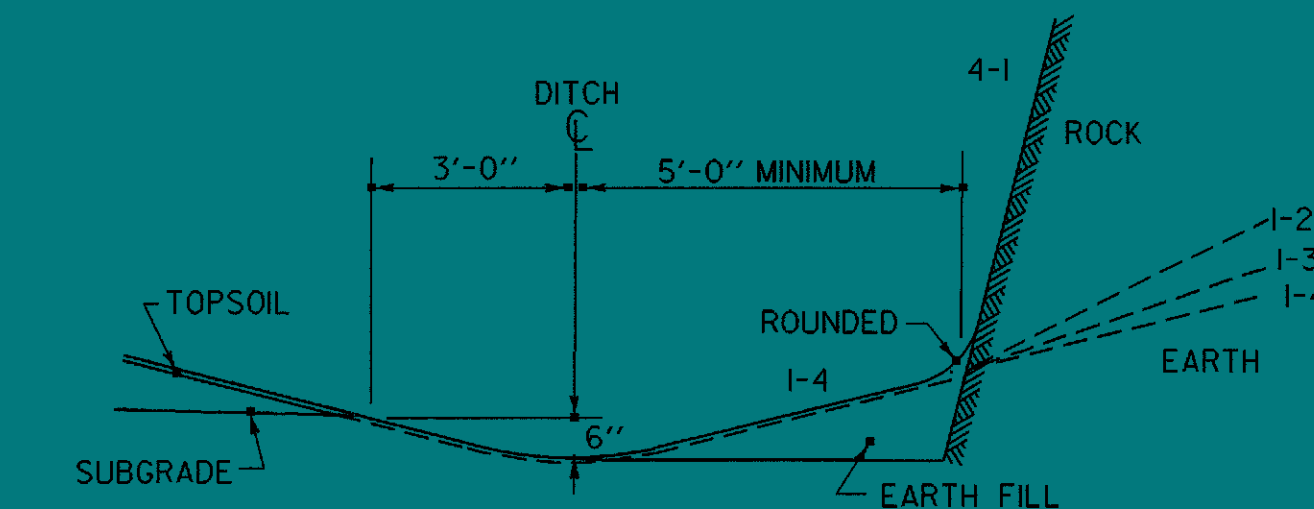
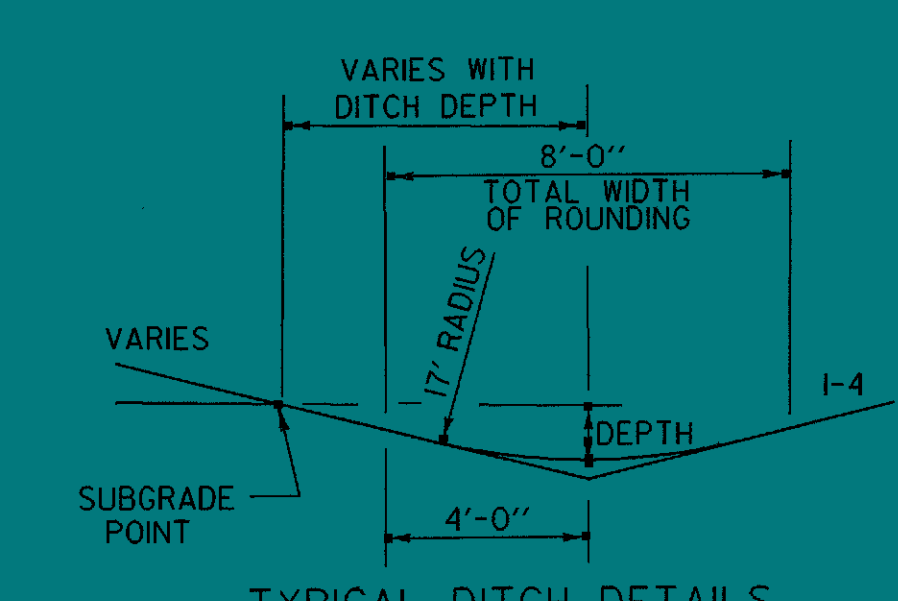
RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFLOIL	85	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

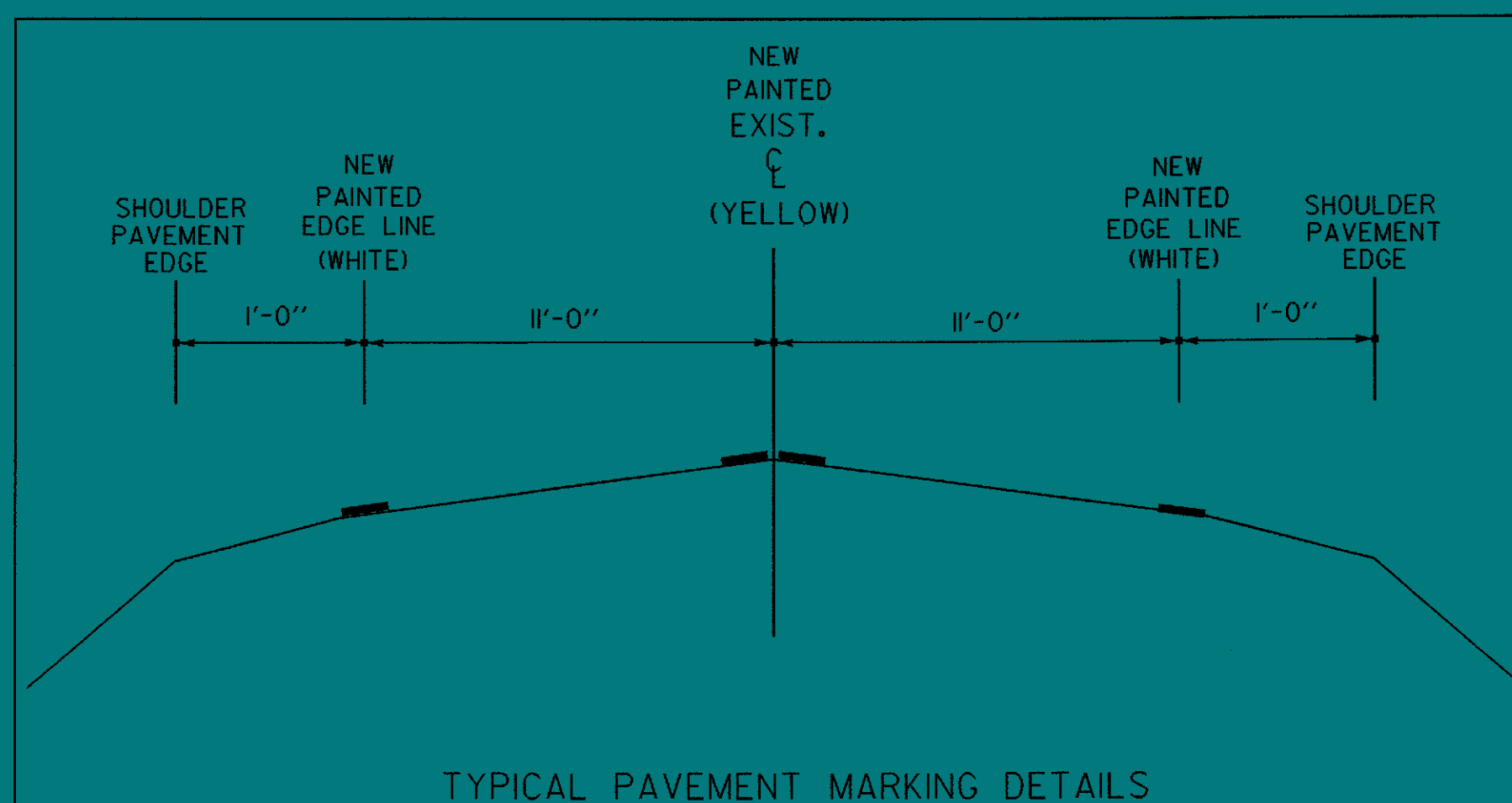
THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.
SEED- TO BE APPLIED PER SEEDING FORMULA DIRECTED BY THE ENGINEER.
FERTILIZER- FORMULA 19-19-19 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.
AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.
HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
MARKER POSTS- TO BE PLACED AS DIRECTED BY THE ENGINEER.
SLOPE ROUNDING- ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.



* IN BANKED SECTIONS THE EXISTING PORTLAND CEMENT CONCRETE SLAB IS 21' RATHER THAN THE 18' WIDTH FOR THE NORMAL SECTION, PER RECORD PLANS



FOR SLOPES IN SOLID ROCK EXCAVATION SEE STANDARD SHEET A-60.



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IN DPR**

NOT TO SCALE

PROJECT NAME: LUDLOW	PLOT DATE: 07-APR-2000
PROJECT NUMBER: NH 025-1(38)S	DRAWN BY: SODB
FILE NAME: db076+yp.1	CHECKED BY:
PROJECT LEADER: DELLA SANTA	SHEET 3 OF 31
DESIGNED BY: SODB	

EARTHWORKS

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						SUMMARY AND BALANCES						
STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	STATION	DIST	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	STATION TO STATION	TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES		ACCUMULATIVE EXCESSES		
135+50		0		0		0																							135+50	46+50	19433	8483	69	21899		21899		
136+00	50	100	93	0		3																																
136+50	50	950	1903	13	120	1																																
137+00	50	1105	2015	117	345	0																																
137+50	50	1071	2271	256	815	0																																
138+00	50	1382	2456	624	1255	2																																
138+50	50	1270	2074	731	1254	1																																
139+00	50	970	1681	623	1052	1																																
139+50	50	846	1364	513	813	0																																
140+00	50	627	971	365	615	0																																
140+50	50	422	700	299	459	0																																
141+00	50	334	197	197		1																																
141+05.77+																																						
142+36.33	19.44		234		134																																	
EQ.																																						
+9869.44'																																						
42+50	50	315	615	175	383	1																																
43+00	50	349	510	239	344	1																																
43+50	50	202	414	133	261	3																																
44+00	50	245	437	149	221	2																																
44+50	50	227	388	90	242	2																																
45+00	50	192	256	171	158	2																																
45+50	50	85	79	0	0	4																																
46+00	50	0	0	0	0	12																																
46+50	50	0	0	0	0	0																																
TOTALS			19433		8483		69																															

REMARKS	
EARTH AND ROCK EXCAVATION	19433
SOLID ROCK EXCAVATION	8483
EARTH EXCAVATION	10950
PLANIMETERED FILL	69
FACTOR 0.15	10
PLANIMETERED FILL INCLUDING FACTOR	79
EARTH EXCAVATION AVAILABLE FOR FILL	10950
TOTAL FILL INCLUDING FACTOR	79
EXCESS EARTH EXCAVATION	10871
SOLID ROCK EXCAVATION	8483
FACTOR 0.30	2545
FACTORED SOLID ROCK EXCAVATION	11028
FACTORED SOLID ROCK EXCAVATION	11028
EXCESS EARTH EXCAVATION	10871
TOTAL EXCESS EXCAVATION	21899

**ARCHIVED
IN DPR**

SURVEYED BY ORVIS DATE 09/15/97
 DRAWN BY SQUAD B DATE 08/19/98
 SQUAD LEADER DELLA SANTA
 DESIGN FILE NO. /SQDB/97B076/DB076FRM.DGN
 IPARM FILE DB076EW DATE PLOTTED 07-APR-2000
 PROJ. NAME LUDLOW
 PROJ. NO. NH 025-1(38)S
 SHEET 6 OF 31 SHEETS

TABLE OF PROJECT PROPERTY ACQUISITION

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY	
1	GEORGE WILLIAMS, JR. ESTATE	6, 7	135+68 RT. 135+90 RT. 136+33 RT. 136+63 RT. 139+40 RT.	45+86 RT. 45+86 RT. 140+25 RT. 138+10 RT. 139+64 RT.	0.36A±		SLOPE (P) 1.51A± ALL R. T. & I. ALL R. T. & I. ALL R. T. & I.	EXD	12-29-00	LUDLOW	191	549	FENCE STONEWALL STONEWALL							
2	SHEEHAN, GERALD J.	7	45+85 RT. 45+86 RT.	46+50 RT. 46+03 RT.	1088SF±		CONST. (T) 120 S.F. ±	WD	01-26-00	LUDLOW	192	495- 496								

ACCT.MRyan
\\vaot_cadd\fillingcabinet\978076\RightOfWay\rb076cd.dgn
DATE PLOTTED 11-MAY-2000

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
 TAKING WITHOUT ACCESS
 TAKING WITHOUT ACCESS ALONG PROPERTY LINE
 TAKING WITH ACCESS
 PERMANENT EASEMENT
 TEMPORARY EASEMENT

LEGEND

 CZ (P) CLEAR ZONE

 --- CONST. (T) --- CONSTRUCTION EASEMENT

 --- SR --- SLOPE RIGHTS

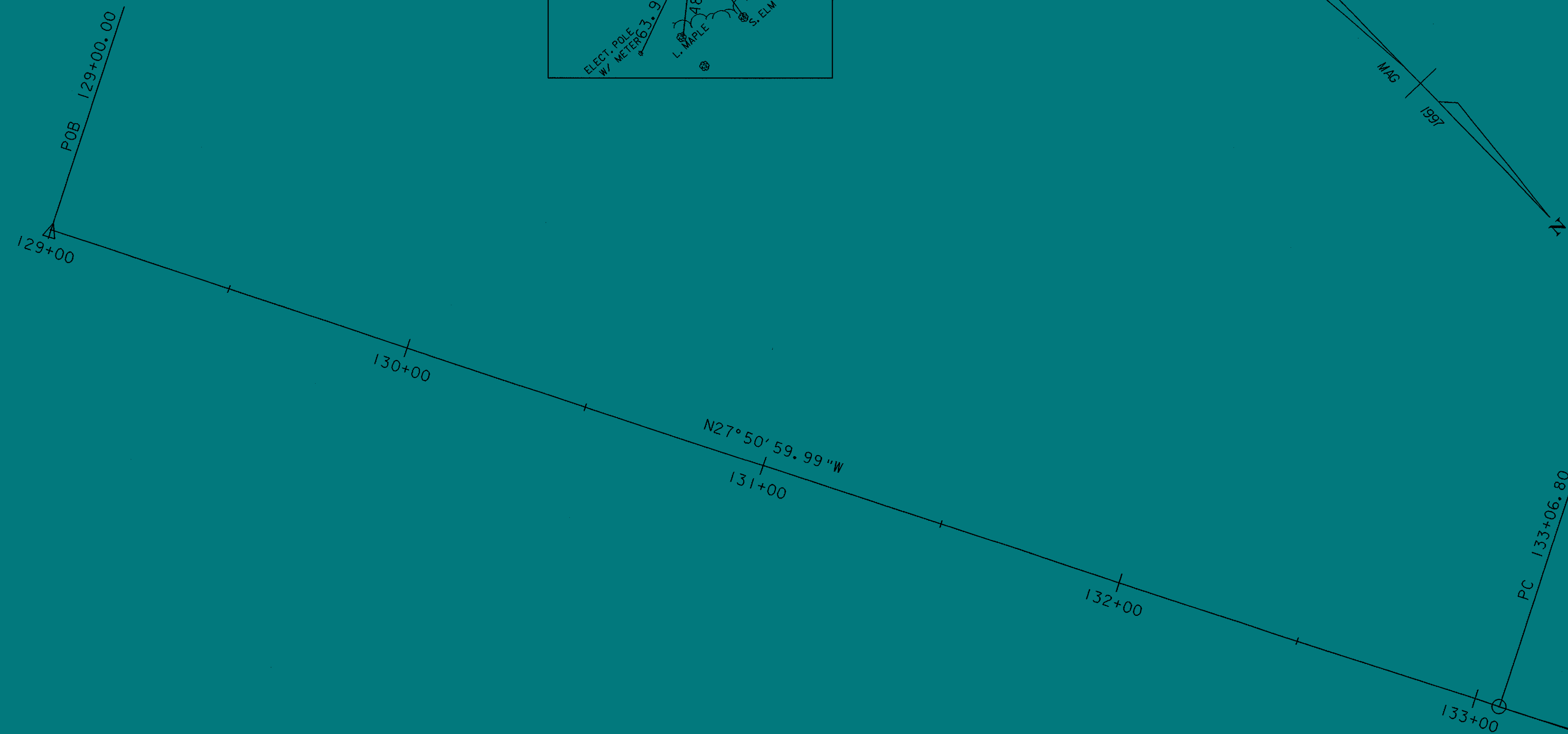
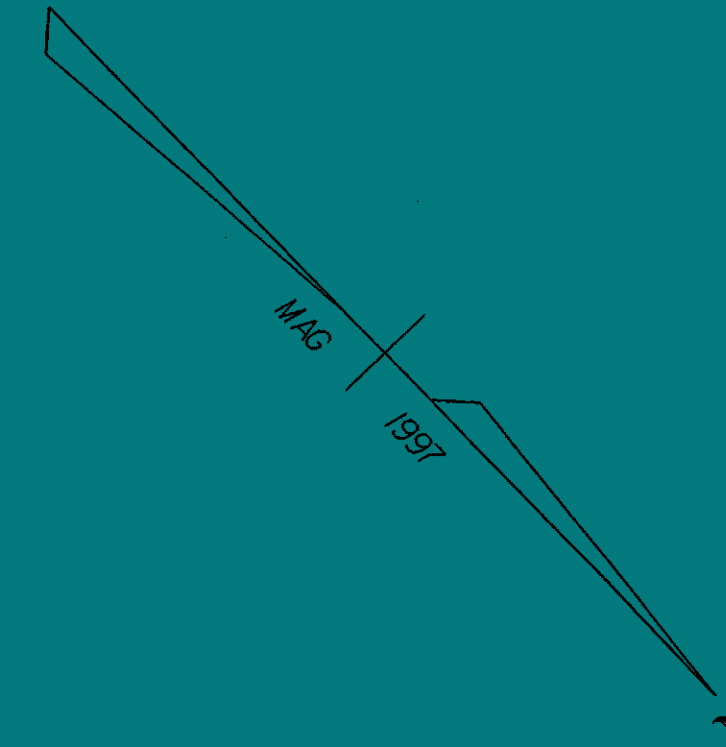
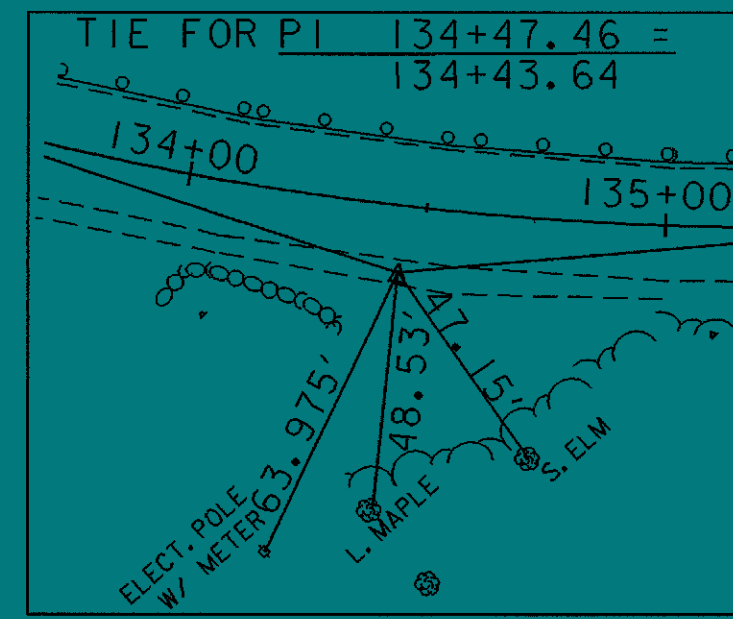
 --- P --- PROPERTY LINE

 --- L --- TOP OF CUT

 --- O --- TOE OF SLOPE

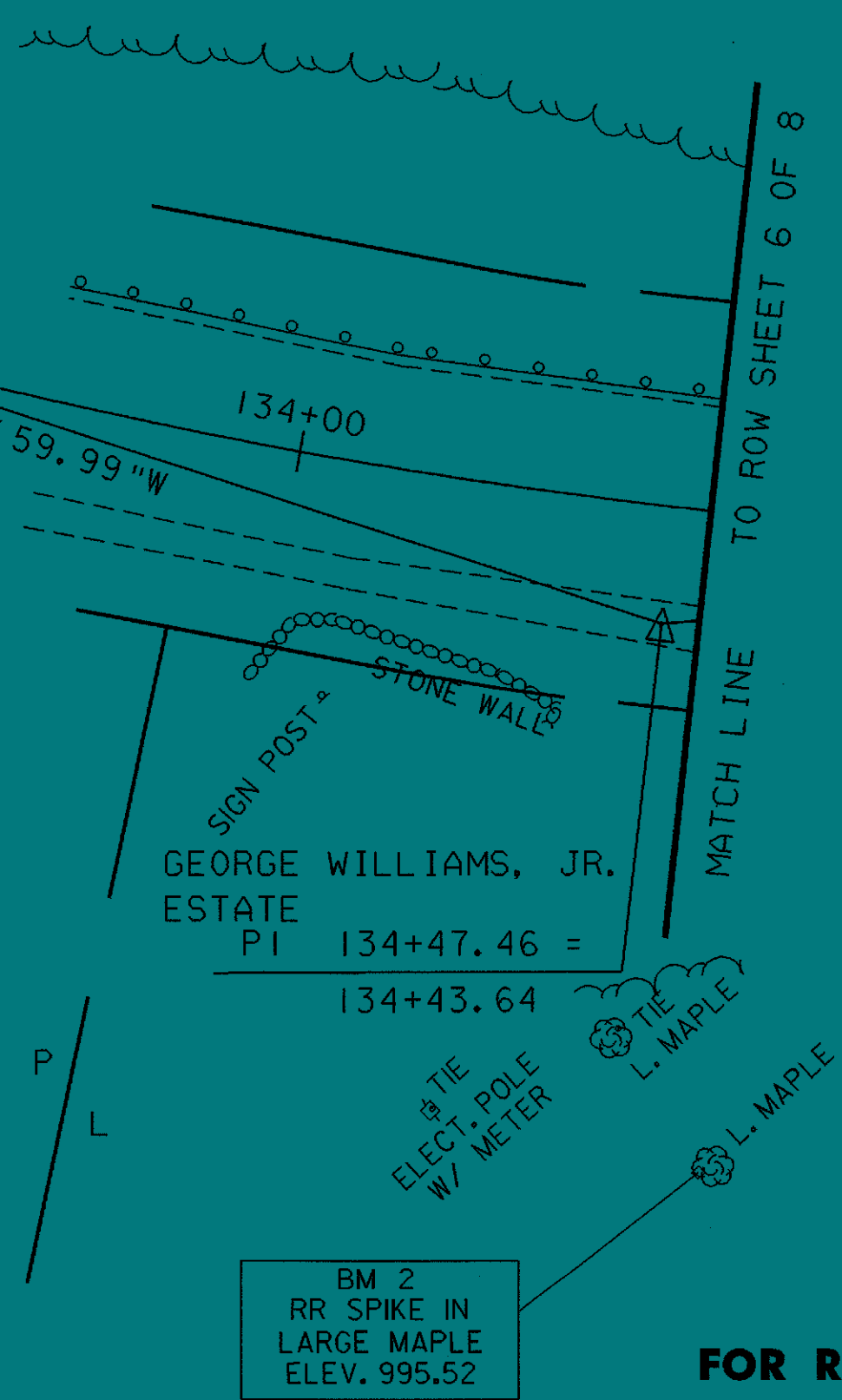
APPROVED: LAWRENCE W. BLISS DATE: 03-22-99
AGENT D, PLANS & TITLES

R. O. W. PLANS
LUDLOW
NH 025-1 (38) S
R. O. W. SHEET 4 OF 8 SHEETS
SHEET 7 OF 31



SURV. CURVE *1
 $\Delta = 23^{\circ}07'30''$ LT.
 $D = 8'20''$
 $R = 687.55'$
 $T = 140.66'$
 $L = 277.50'$
 $E = 14.24'$
 MATCH EXISTING CROSS SLOPE

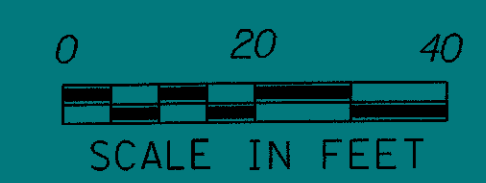
N/F PLUMLEY



FOR R.O.W. USE ONLY

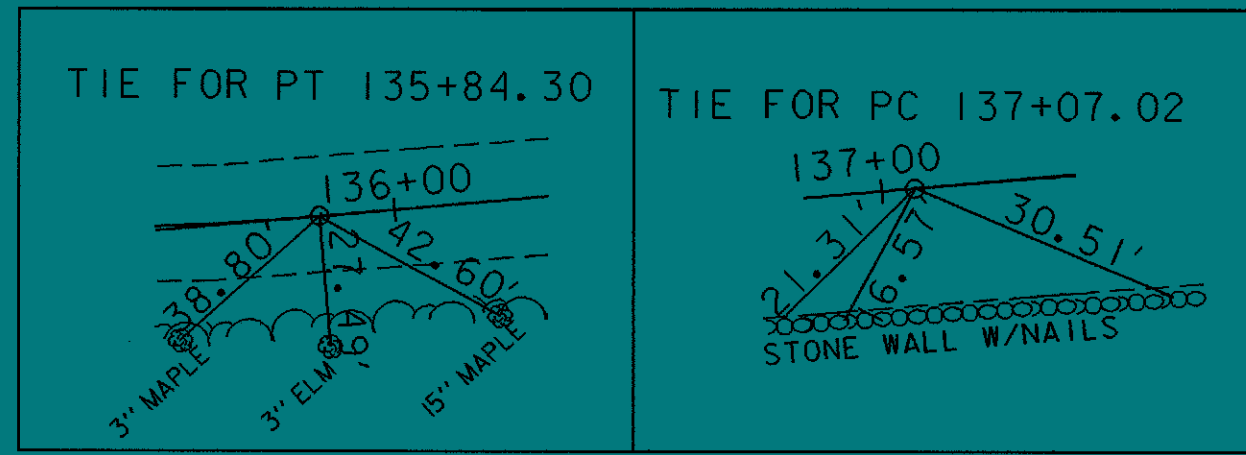
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

ARCHIVED IN DPR



DATUM
 VERTICAL NAVD 1929
 HORIZONTAL ASSUMED

PROJECT: <u>LUDLOW</u>	PROJECT NO.: <u>NH 025-1(38)S</u>
DESIGN FILE NAME: <u>/97b076/rightofway/rb076zzz.dgn</u>	PLOT DATE: <u>07-APR-2000</u>
IPARM FILE NAME: <u>rb076lr.i</u>	SURVEY DATE: <u>9/15/97</u>
SURVEYED BY: <u>ORVIS</u>	DRAWN BY: <u>SODB</u>
SQUAD LEADER: <u>DELLA SANTA</u>	
R. O. W. SHEET 5 OF 8 SHEETS	SHEET 8 OF 31



* SEE PAVEMENT MARKING TYPICAL ON SHEET 3

COLD PLANING - BITUMINOUS PAVEMENT
STA.135+50 - STA.140+50

4" YELLOW LINE *
STA.135+50 CL - STA.140+50 CL (DBL)

4" WHITE LINE *
STA.135+50 LT - STA.140+50 LT (EDGE)
STA.135+50 RT - STA.140+50 RT (EDGE)

TEMPORARY 4" YELLOW LINE *
STA.135+50 CL - STA.140+50 CL (DBL)

TEMPORARY 4" WHITE LINE *
STA.135+50 LT - STA.140+50 LT (EDGE)
STA.135+50 RT - STA.140+50 RT (EDGE)

REMOVING SIGNS
1 EA

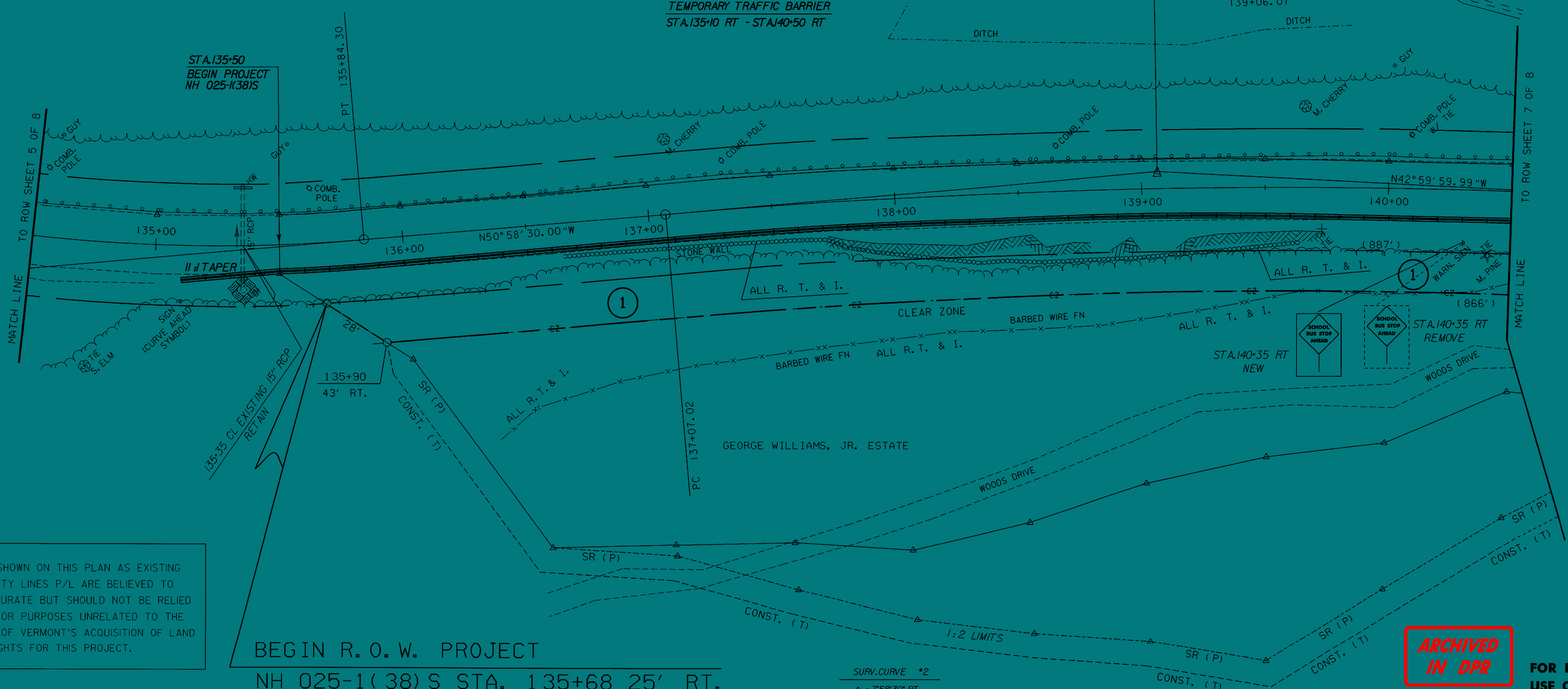
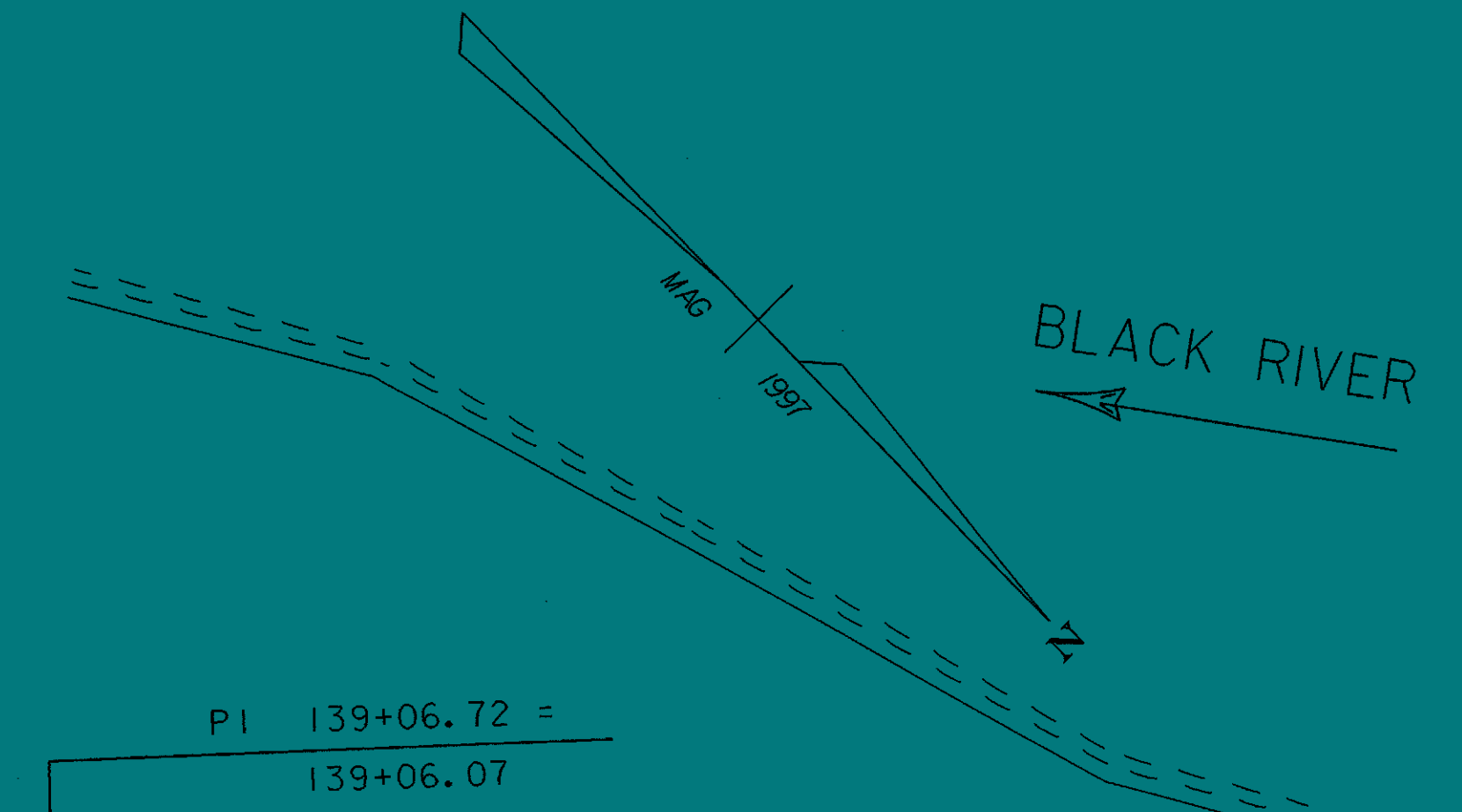
REMOVAL OF EXISTING FENCE
STA.136+49 RT - STA.140+50 RT

EROSION CONTROL

HAY BALES AT DJ.FOR INLET PROTECTION

TEMPORARY TRAFFIC BARRIER
STA.135+10 RT - STA.140+50 RT

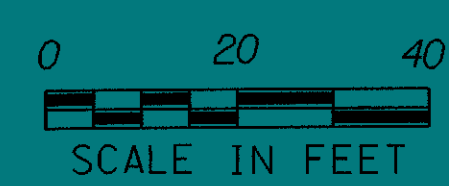
ENERGY ABSORPTION ATTENUATOR (BARRELS)
STA.135+10 RT (FOR TRAFFIC BARRIER)



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

BEGIN R. O. W. PROJECT
NH 025-1(38) S STA. 135+68 25' RT.

SURV. CURVE *2
Δ - 758'30" RT.
D - 2'
R - 2864.79'
T - 199.70'
L - 398.75'
E - 6.95'
MATCH EXISTING CROSS SLOPE



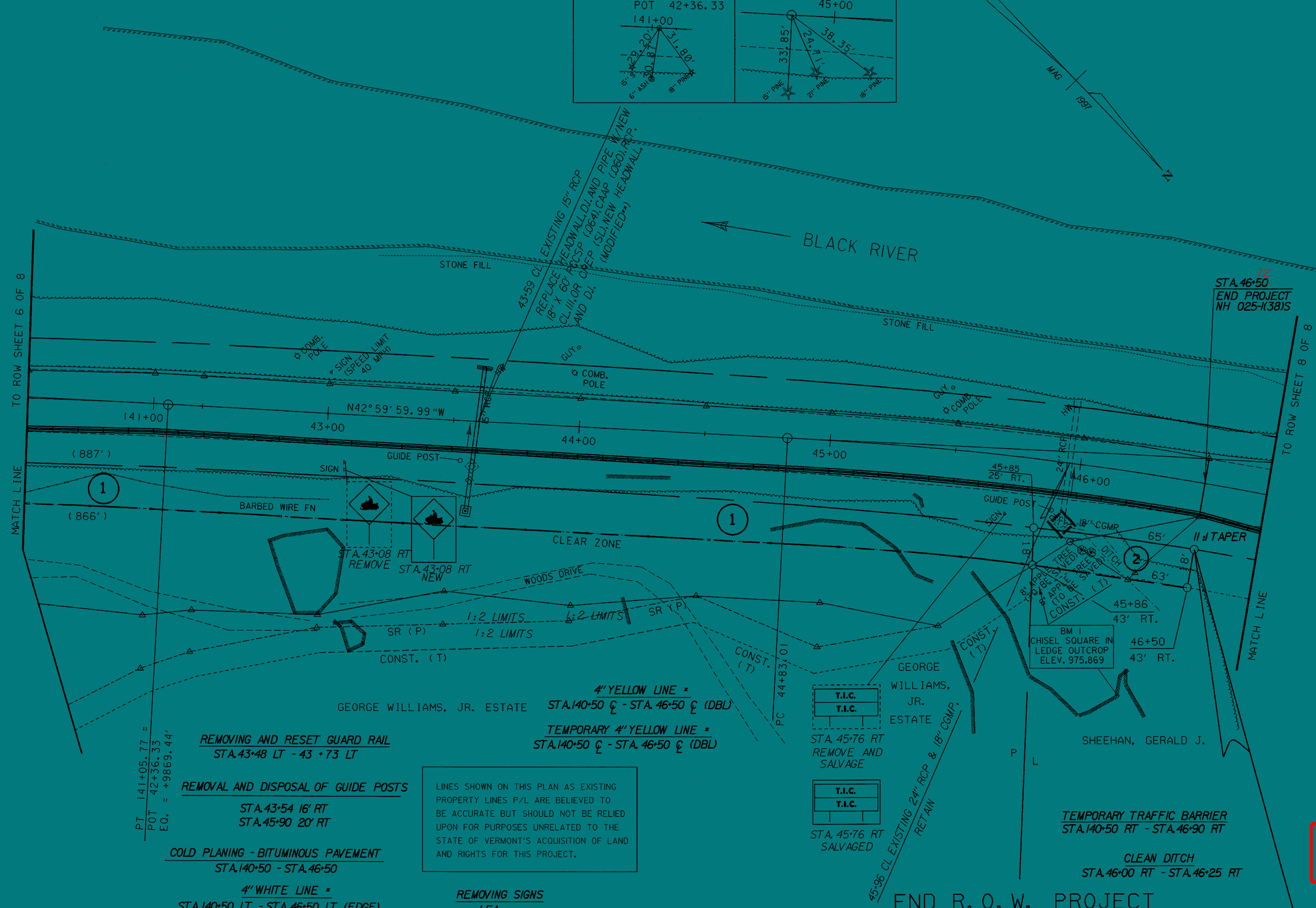
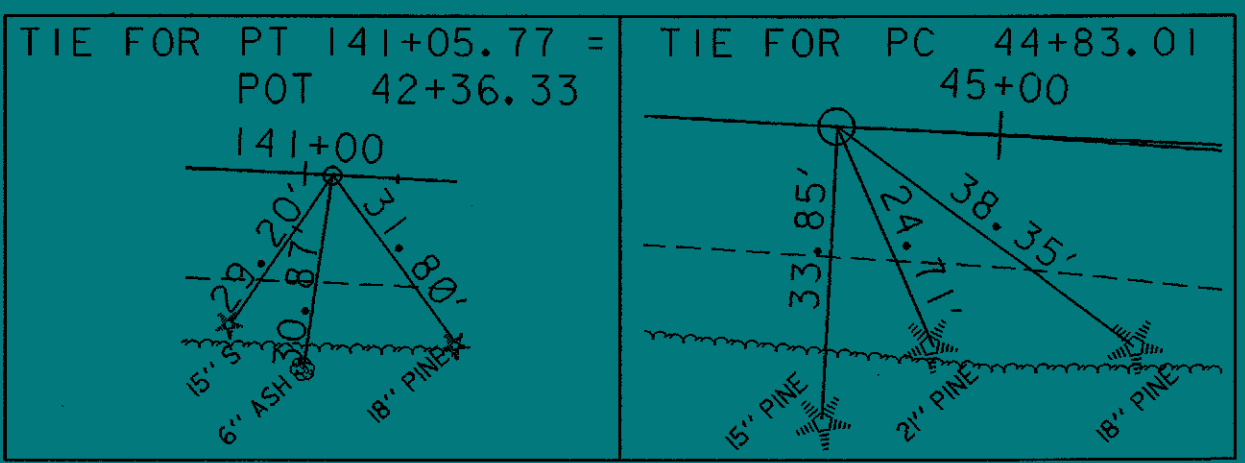
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IN DPR

FOR R.O.W.
USE ONLY

DATUM	
VERTICAL	NAVD 1929
HORIZONTAL	ASSUMED

PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/97b076/rightofway/rb076zzz.dgn		
IPARM FILE NAME:	rb07612r.i	PLOT DATE:	07-APR-2000
SURVEYED BY:	ORVIS	SURVEY DATE:	9/15/97
SQUAD LEADER:	DELLA SANTA	DRAWN BY:	SODB
R. O. W. SHEET 6 OF 8 SHEETS		SHEET 9 OF 31	

NOTE: ACTUAL SIGNS SHOWN ARE NOT DRAWN TO SCALE.



PT 141+05.77 =
 POT 42+36.33
 EQ. = +9869.44'

REMOVING AND RESET GUARD RAIL
 STA. 43+48 LT - 43+73 LT

REMOVAL AND DISPOSAL OF GUIDE POSTS
 STA. 43+54 16' RT
 STA. 45+90 20' RT

COLD PLANING - BITUMINOUS PAVEMENT
 STA. 140+50 - STA. 46+50

4" WHITE LINE *
 STA. 140+50 LT - STA. 46+50 LT (EDGE)
 STA. 140+50 RT - STA. 46+50 RT (EDGE)

TEMPORARY 4" WHITE LINE *
 STA. 140+50 LT - STA. 46+50 LT (EDGE)
 STA. 140+50 RT - STA. 46+50 RT (EDGE)

4" YELLOW LINE *
 STA. 140+50 C - STA. 46+50 C (DBL)

TEMPORARY 4" YELLOW LINE *
 STA. 140+50 C - STA. 46+50 C (DBL)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

REMOVING SIGNS
 IEA

REMOVAL OF EXISTING FENCE
 STA. 140+50 RT - STA. 43+00 RT

EROSION CONTROL
 HAY BALES AT DJ. FOR INLET PROTECTION

***SEE PAVEMENT TYPICAL ON SHEET 3**

NOTE: ACTUAL SIGNS SHOWN ARE NOT DRAWN TO SCALE.

****THE MODIFICATION FOR THE NEW PIPE AT 43+59 CL IS THAT THE COST FOR PATCHING THE PORTLAND CEMENT SLAB SHALL BE SUBSIDIARY TO THE PIPE REPLACEMENT COST.**

GEORGE WILLIAMS, JR. ESTATE

45+76 RT REMOVE AND SALVAGE

45+76 RT SALVAGED

45+85 25' RT.

45+86 43' RT.

46+50 43' RT.

CHISEL SQUARE IN LEDGE OUTCROP ELEV. 975.869

TEMPORARY TRAFFIC BARRIER STA. 140+50 RT - STA. 46+90 RT

CLEAN DITCH STA. 46+00 RT - STA. 46+25 RT

ARCHIVED IN DPR

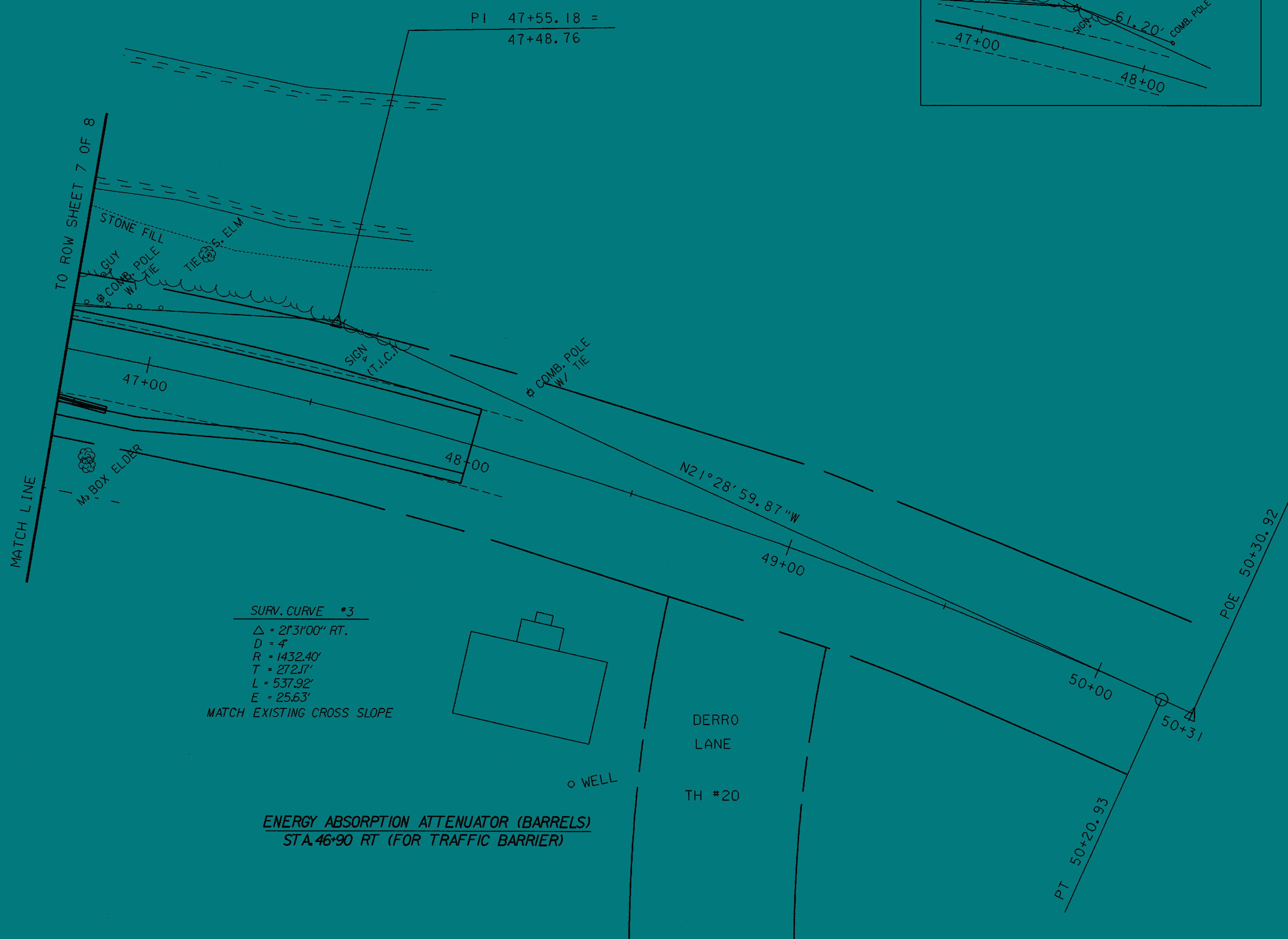
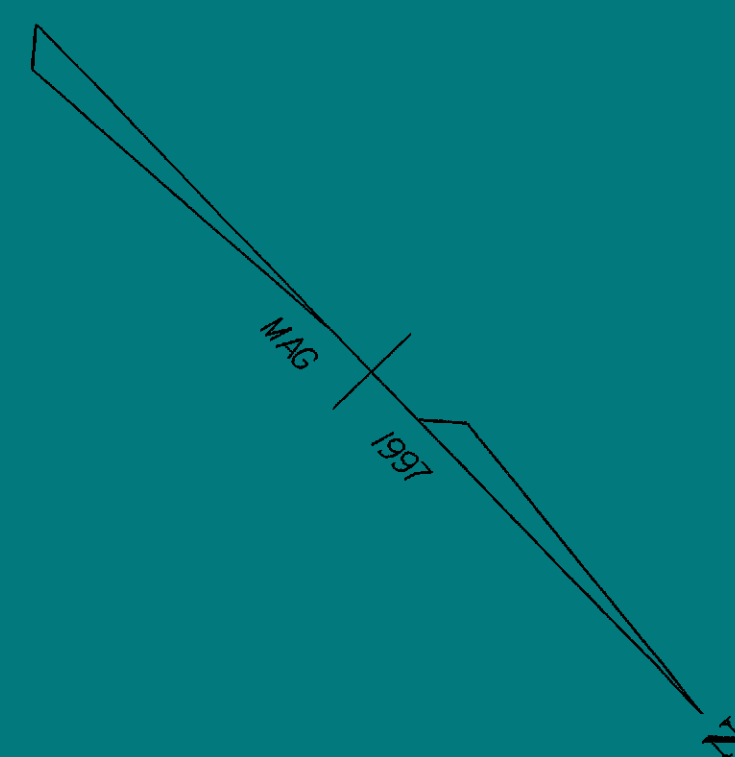
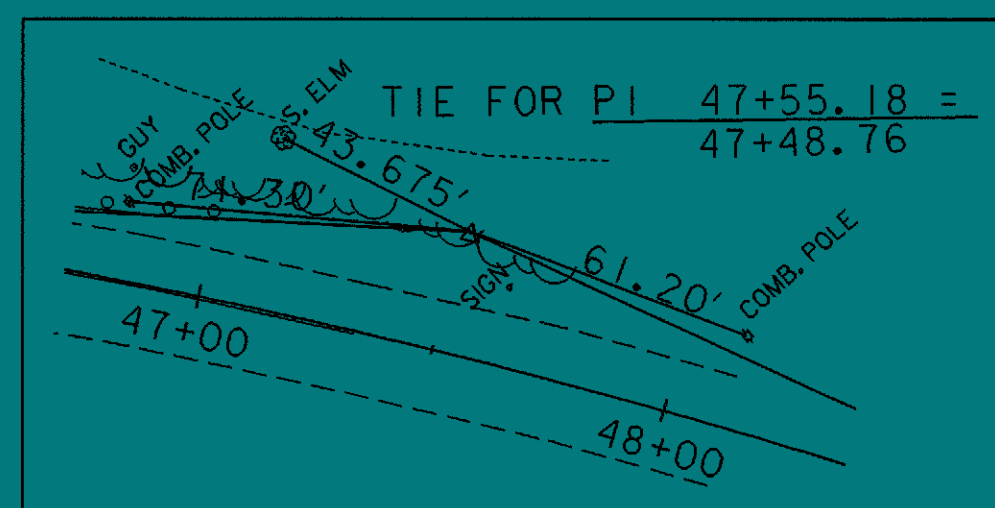
END R.O.W. PROJECT
 NH 025-1(38)S STA. 46+50 25' RT.



DATUM
 VERTICAL NAVD 1929
 HORIZONTAL ASSUMED

PROJECT: LUDLOW	PROJECT NO.: NH 025-1(38)S
DESIGN FILE NAME: /97b076/rightofway/rb076zzz.dgn	PLOT DATE: 07-APR-2000
IPARM FILE NAME: rb07613r.l	SURVEY DATE: 9/15/97
SURVEYED BY: ORVIS	DRAWN BY: SADB
SQUAD LEADER: DELLA SANTA	R.O.W. SHEET 7 OF 8 SHEETS
	SHEET 10 OF 31

FOR R.O.W. USE ONLY



SURV. CURVE *3
 $\Delta = 2731'00''$ RT.
 $D = 4'$
 $R = 1432.40'$
 $T = 272.17'$
 $L = 537.92'$
 $E = 25.63'$
 MATCH EXISTING CROSS SLOPE

ENERGY ABSORPTION ATTENUATOR (BARRELS)
 STA. 46+90 RT (FOR TRAFFIC BARRIER)

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

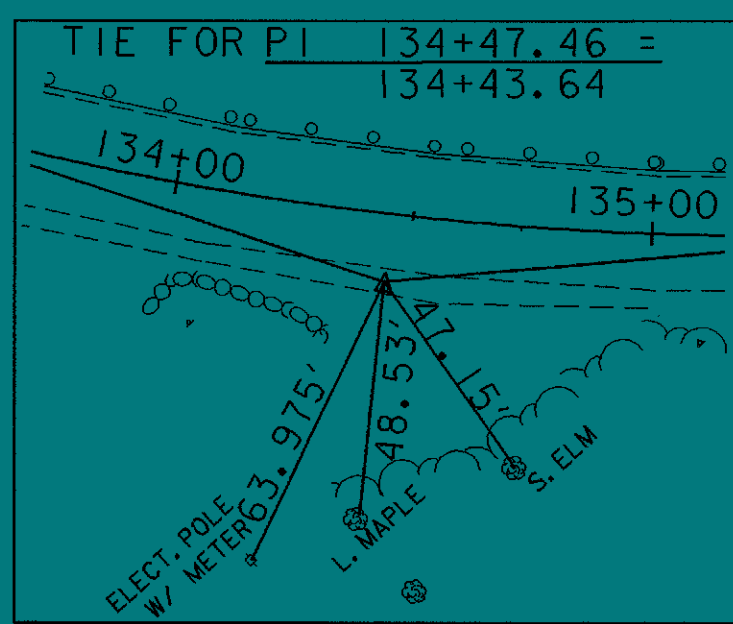
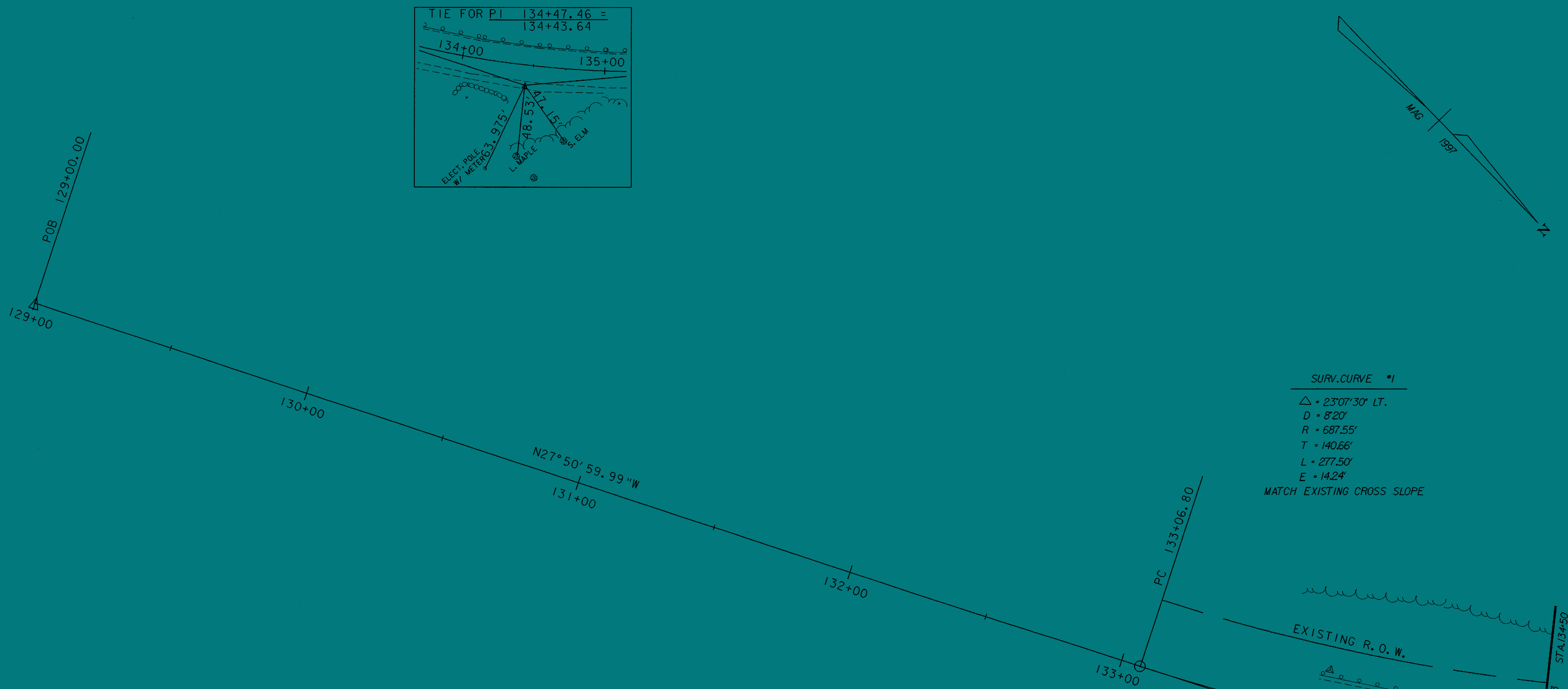
**ARCHIVED
 IN DPR**

**FOR R.O.W.
 USE ONLY**

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

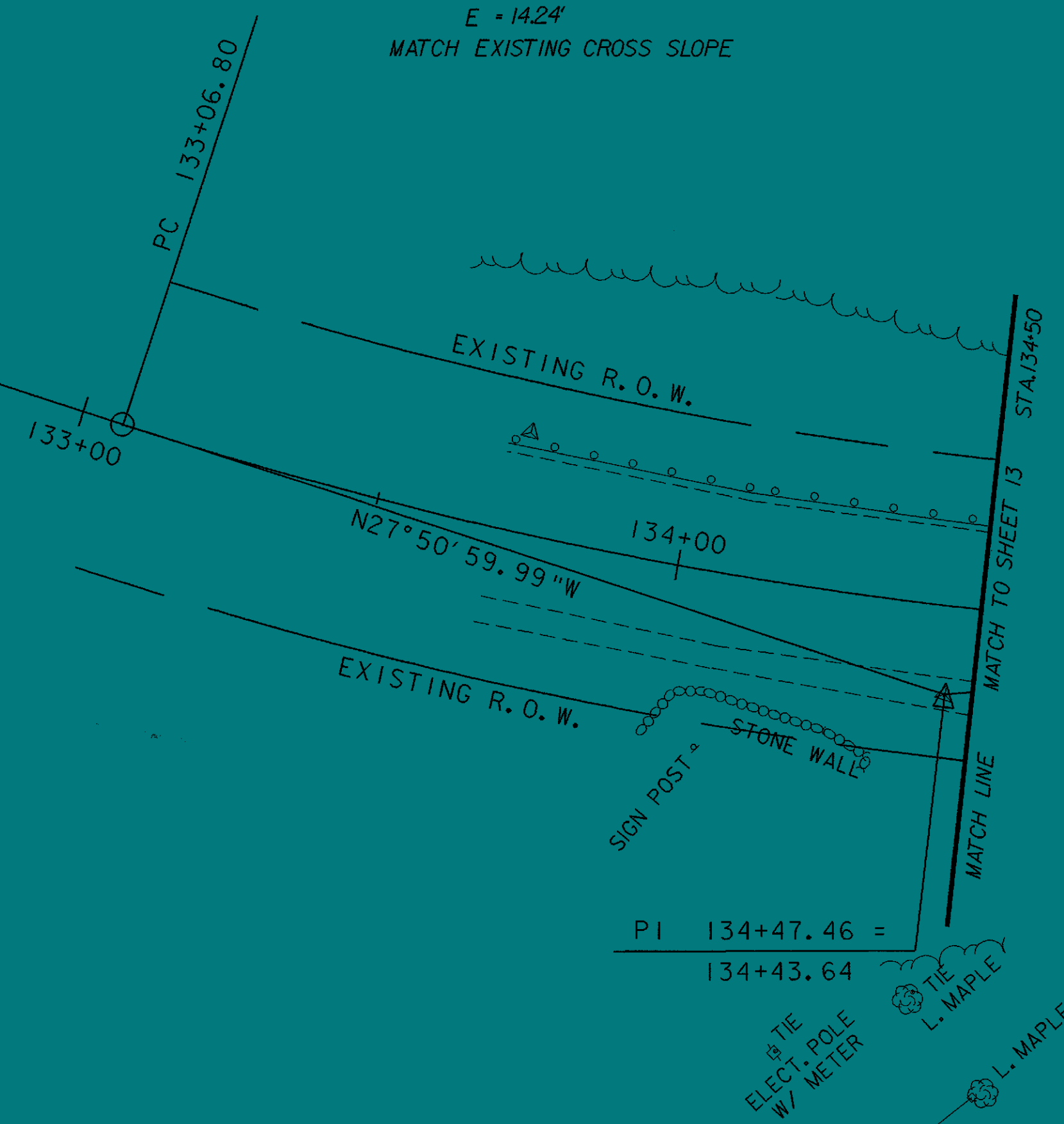
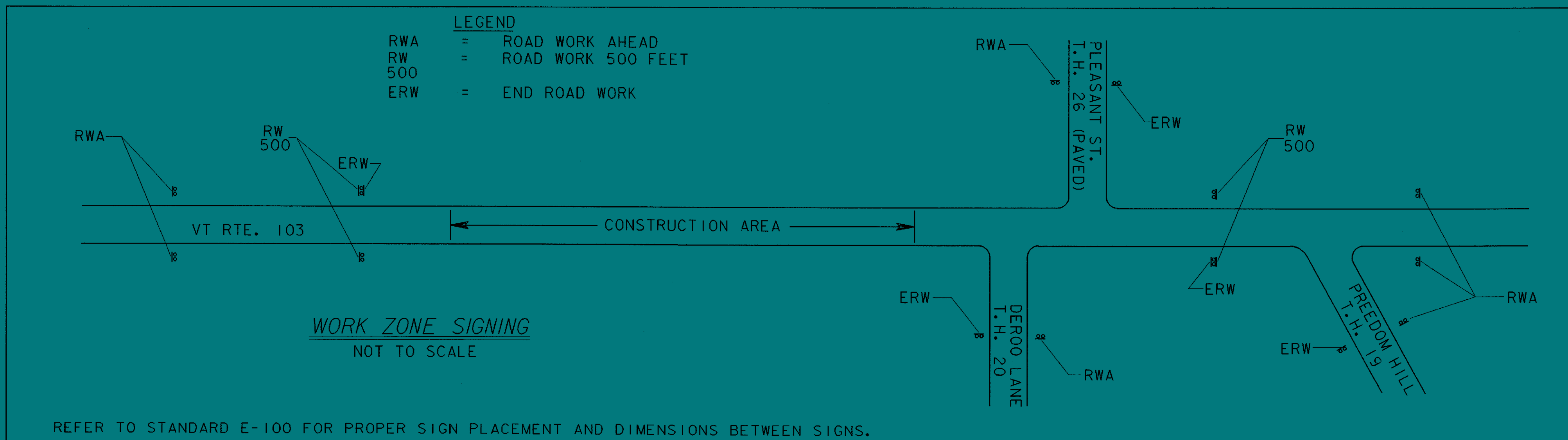


PROJECT: <i>LUDLOW</i>	PROJECT NO.: <i>NH 025-K381S</i>
DESIGN FILE NAME: <i>/97B076/rightofway/rb076zzz.dgn</i>	PLOT DATE: <i>07-APR-2000</i>
IPARM FILE NAME: <i>rb07614r.j</i>	SURVEY DATE: <i>9/15/97</i>
SURVEYED BY: <i>ORVIS</i>	DRAWN BY: <i>SQDB</i>
SQUAD LEADER: <i>DELLA SANTA</i>	
R. O. W. SHEET 8 OF 8 SHEETS	SHEET 11 OF 31



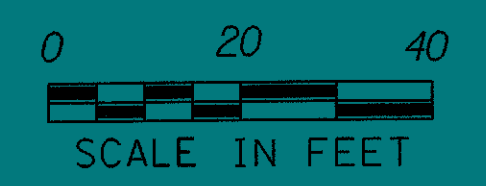
SURV. CURVE *1

Δ = 23°07'30" LT.
 D = 8°20'
 R = 687.55'
 T = 140.66'
 L = 277.50'
 E = 14.24'
 MATCH EXISTING CROSS SLOPE



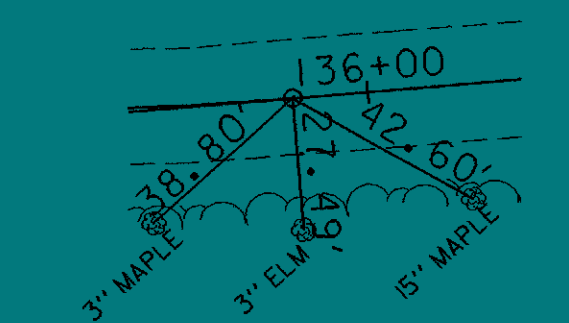
**ARCHIVED
IN DPR**

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

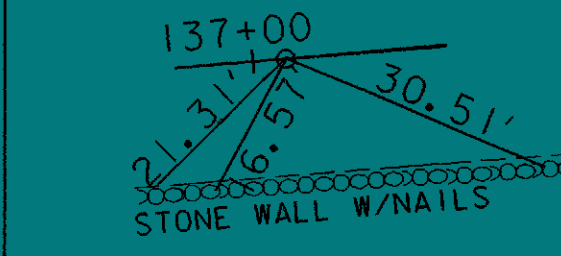


PROJECT: LUDLOW	PROJECT NO.: NH 025-1(38)S
DESIGN FILE NAME: /SQDB/97B076/DB076NUI.DGN	PLOT DATE: 07-APR-2000
IPARM FILE NAME: DB076LOI	SURVEY DATE: 9/15/97
SURVEYED BY: ORVIS	DRAWN BY: SQDB
SQUAD LEADER: DELLA SANTA	SHEET: 12 OF 31

TIE FOR PT 135+84.30



TIE FOR PC 137+07.02



* SEE PAVEMENT MARKING TYPICAL ON SHEET 3

COLD PLANING - BITUMINOUS PAVEMENT
STA.135+50 - STA.140+50

4" WHITE LINE *
STA.135+50 LT - STA.140+50 LT (EDGE)
STA.135+50 RT - STA.140+50 RT (EDGE)

TEMPORARY 4" WHITE LINE *
STA.135+50 LT - STA.140+50 LT (EDGE)
STA.135+50 RT - STA.140+50 RT (EDGE)

EROSION CONTROL

HAY BALES AT DI.FOR INLET PROTECTION

TEMPORARY TRAFFIC BARRIER
STA.135+50 RT - STA.140+50 RT
138'0"

4" YELLOW LINE *
STA.135+50 C - STA.140+50 C (DBL)
0'5"

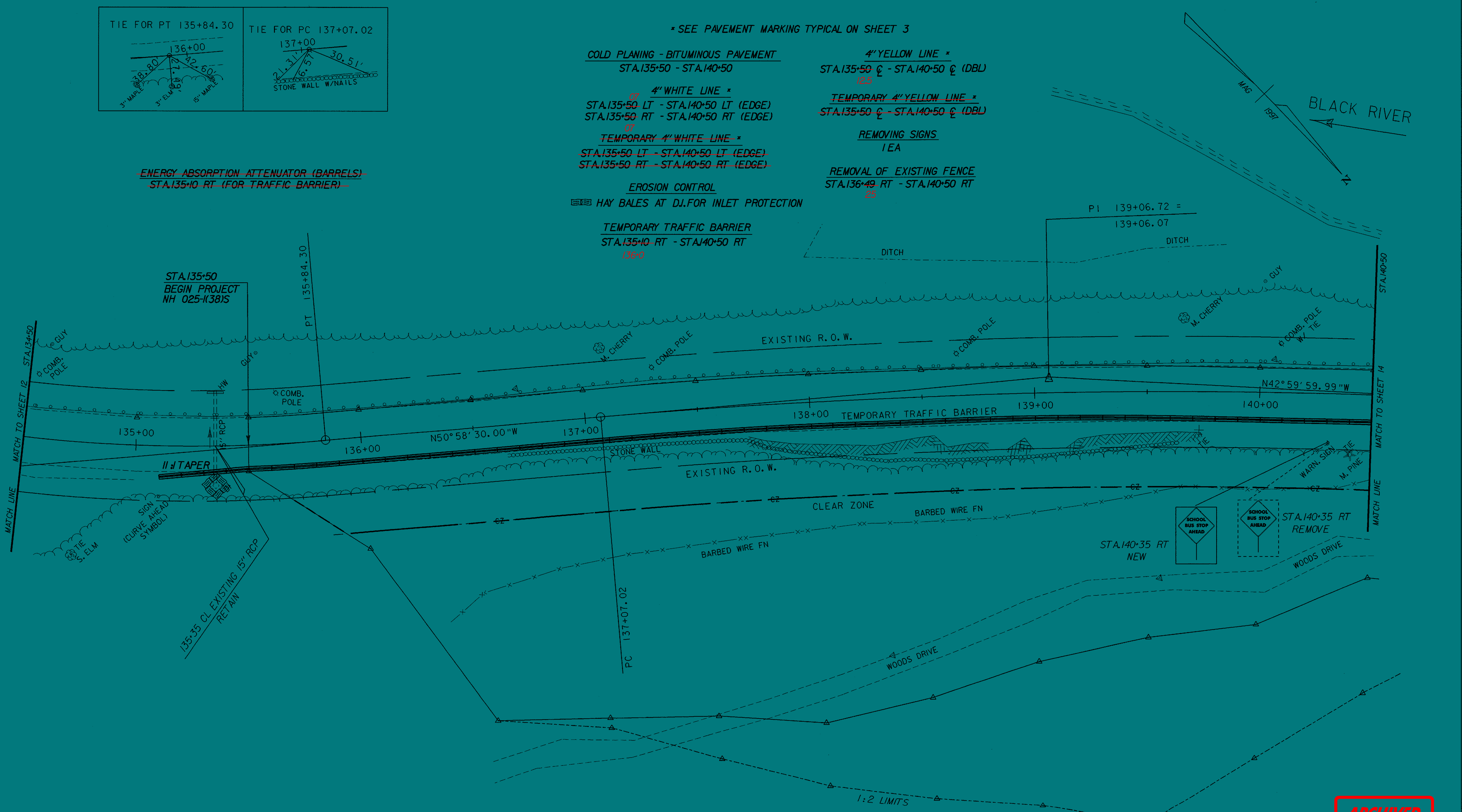
TEMPORARY 4" YELLOW LINE *
STA.135+50 C - STA.140+50 C (DBL)

REMOVING SIGNS

IEA

REMOVAL OF EXISTING FENCE
STA.136+49 RT - STA.140+50 RT
25'

ENERGY ABSORPTION ATTENUATOR (BARRELS)
STA.135+10 RT (FOR TRAFFIC BARRIER)

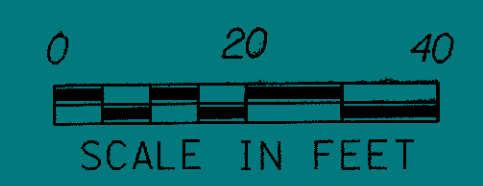


DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)

NOTE: ACTUAL SIGNS SHOWN ARE NOT DRAWN TO SCALE.

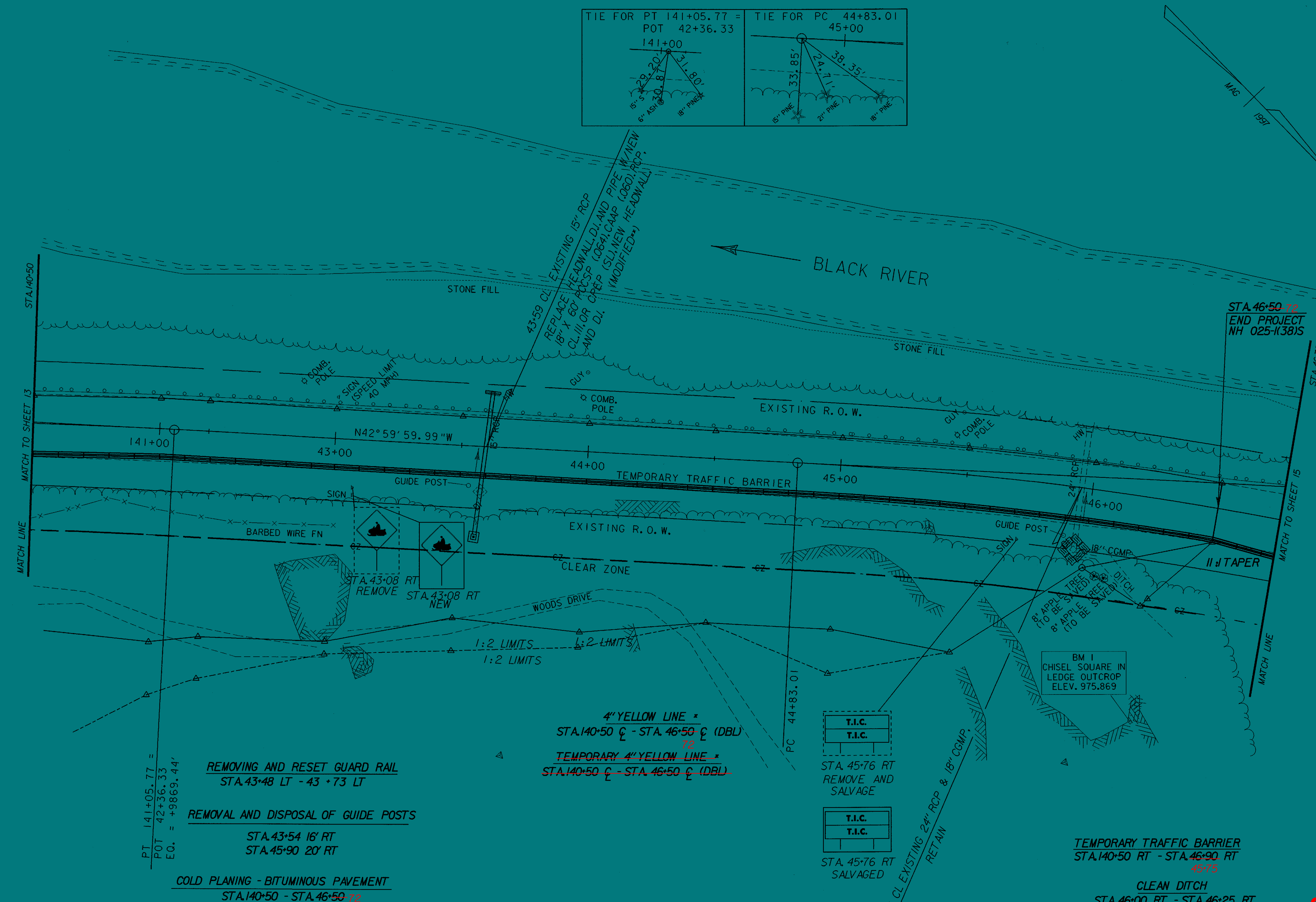
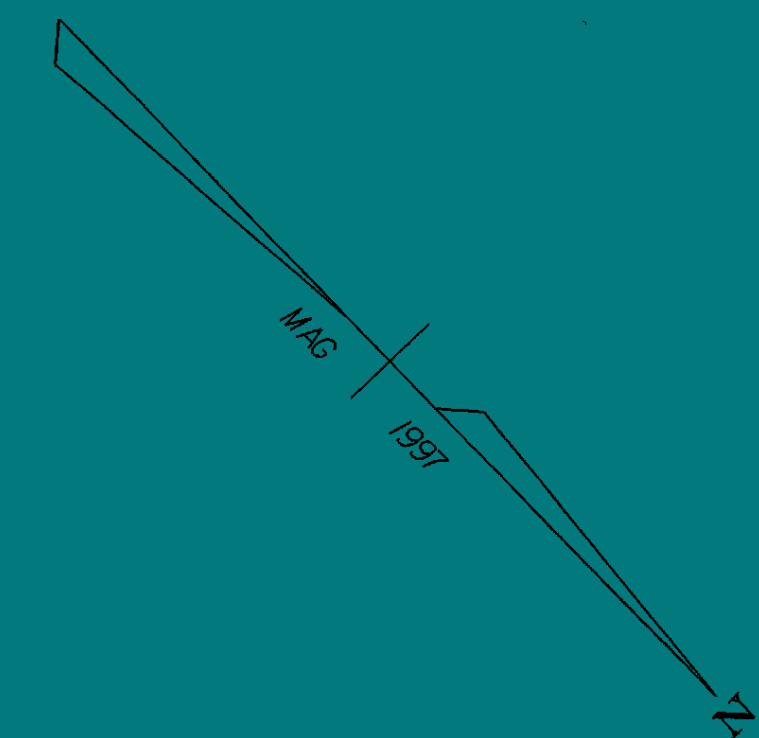
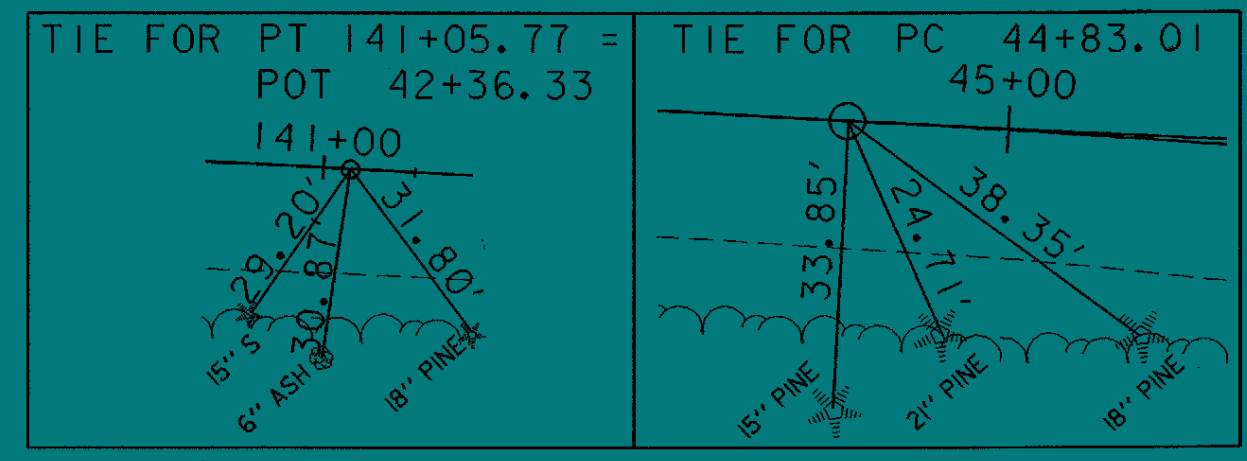
SURV. CURVE *2
 Δ - 7°58'30" RT.
 D = 2'
 R = 2864.79'
 T = 199.70'
 L = 398.75'
 E = 6.95'

MATCH EXISTING CROSS SLOPE



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-K381S
DESIGN FILE NAME:	/SQDB/97B076/DB076NUJ.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076L02	SURVEY DATE:	9/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQDB
SQUAD LEADER:	DELLA SANTA	SHEET:	13 OF 31

ARCHIVED
IN DPR



PT. 141+05.77 =
 POT 42+36.33
 E.O. = +9869.44'

REMOVING AND RESET GUARD RAIL
 STA.43+48 LT - 43+73 LT

REMOVAL AND DISPOSAL OF GUIDE POSTS
 STA.43+54 16' RT
 STA.45+90 20' RT

COLD PLANING - BITUMINOUS PAVEMENT
 STA.140+50 - STA.46+50 RT

4" WHITE LINE
 STA.140+50 LT - STA.46+50 LT (EDGE)
 STA.140+50 RT - STA.46+50 RT (EDGE)

TEMPORARY 4" WHITE LINE
 STA.140+50 LT - STA.46+50 LT (EDGE)
 STA.140+50 RT - STA.46+50 RT (EDGE)

REMOVING SIGNS
 IEA

REMOVAL OF EXISTING FENCE
 STA.140+50 RT - STA.43+00 RT

EROSION CONTROL
 HAY BALES AT DJ. FOR INLET PROTECTION

4" YELLOW LINE
 STA.140+50 C - STA.46+50 C (DBL)

TEMPORARY 4" YELLOW LINE
 STA.140+50 C - STA.46+50 C (DBL)

T.I.C.
 T.I.C.
 STA. 45+76 RT
 REMOVE AND SALVAGE

T.I.C.
 T.I.C.
 STA. 45+76 RT
 SALVAGED

TEMPORARY TRAFFIC BARRIER
 STA.140+50 RT - STA.46+90 RT

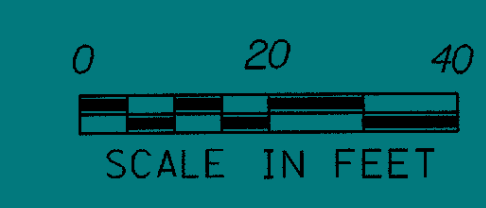
CLEAN DITCH
 STA.46+00 RT - STA.46+25 RT

**ARCHIVED
 IN DPR**

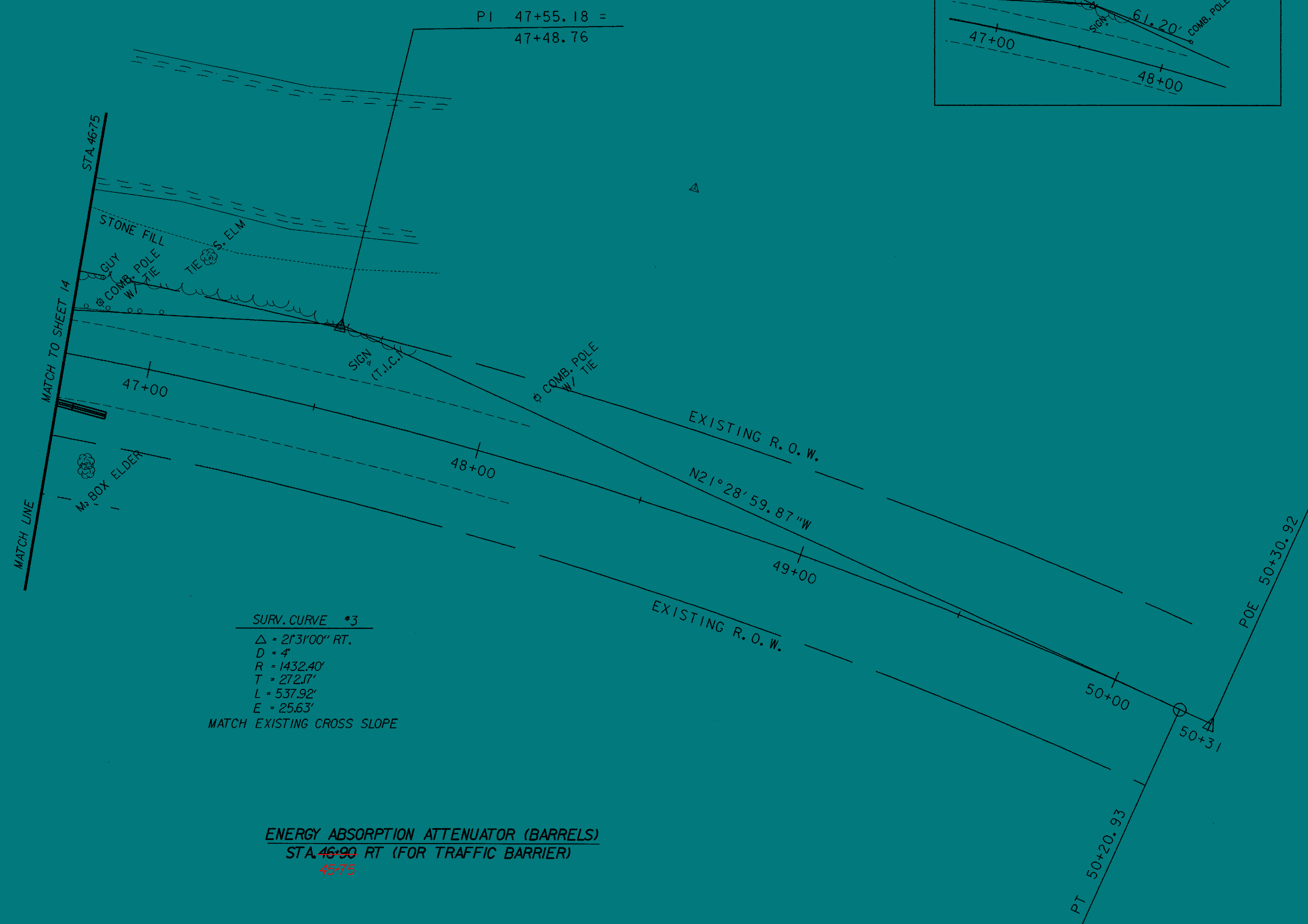
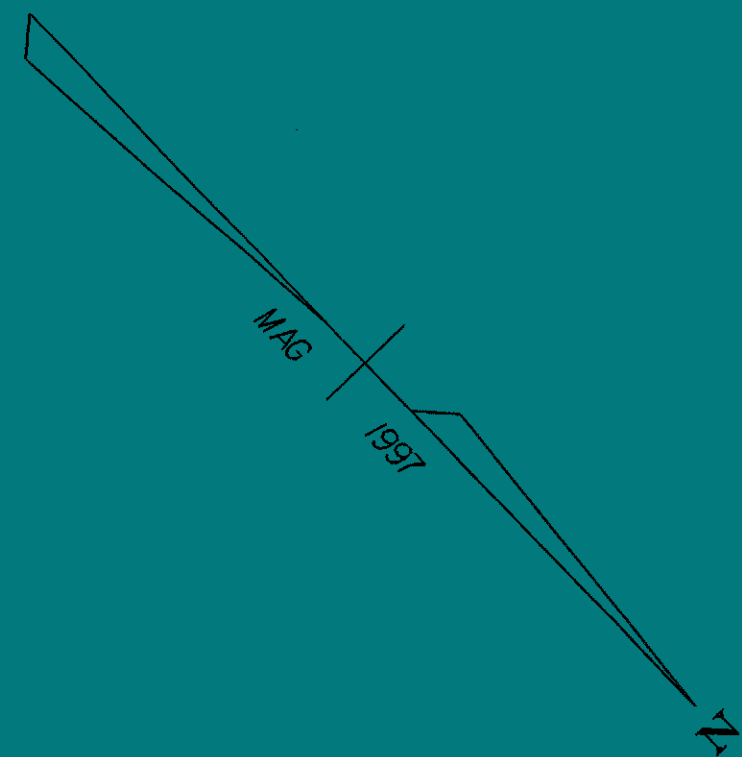
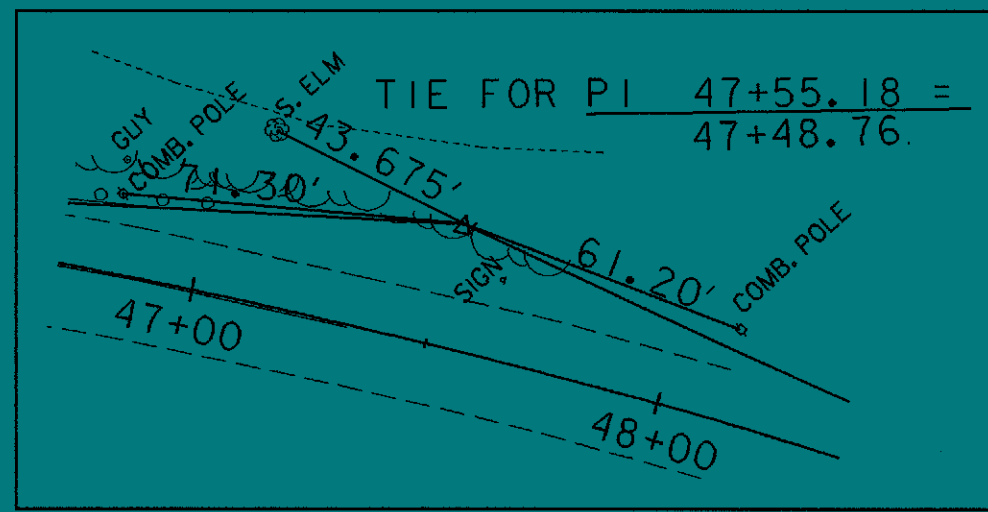
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)

* SEE PAVEMENT MARKING TYPICAL ON SHEET 3
 NOTE: ACTUAL SIGNS SHOWN ARE NOT DRAWN TO SCALE.

**THE MODIFICATION FOR THE NEW PIPE AT 43+59 CL IS THAT THE COST FOR PATCHING THE PORTLAND CEMENT SLAB SHALL BE SUBSIDIARY TO THE PIPE REPLACEMENT COST.



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SODB/97B076/DB076NUI.DGN		
IPARM FILE NAME:	DB076L03	PLOT DATE:	07-APR-2000
SURVEYED BY:	ORVIS	SURVEY DATE:	9/15/97
SQUAD LEADER:	DELLA SANTA	DRAWN BY:	SODB
		SHEET:	14 OF 31

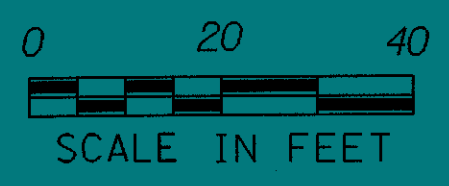


SURV. CURVE *3
 $\Delta = 2731'00''$ RT.
 $D = 4'$
 $R = 1432.40'$
 $T = 272.17'$
 $L = 537.92'$
 $E = 25.63'$
 MATCH EXISTING CROSS SLOPE

ENERGY ABSORPTION ATTENUATOR (BARRELS)
 STA. 46+90 RT (FOR TRAFFIC BARRIER)
 46+73

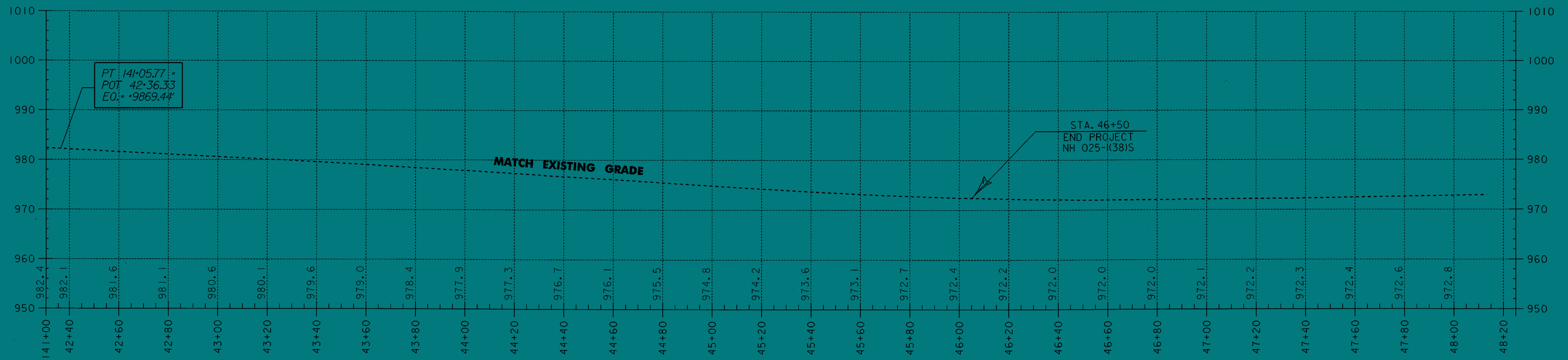
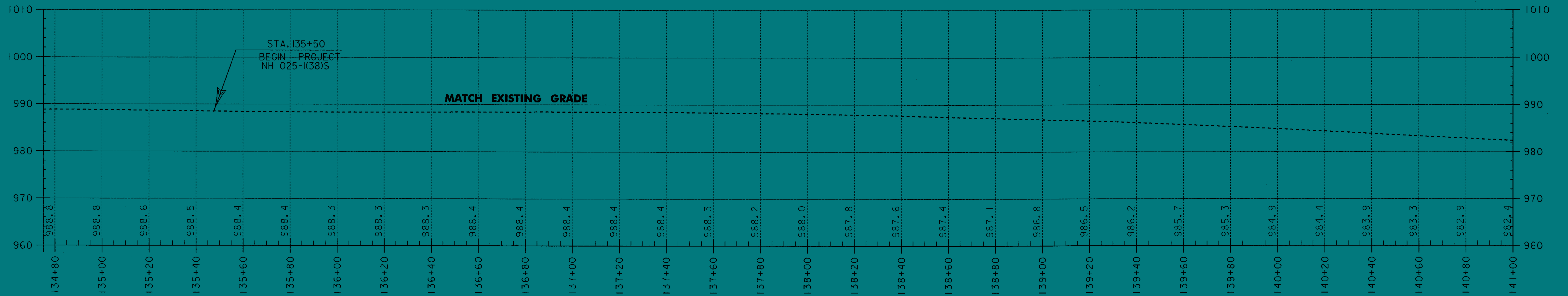
**ARCHIVED
 IN DPR**

DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SQDB/97/BO76/DBO76NUI.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DBO76L04	SURVEY DATE:	9/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQDB
SQUAD LEADER:	DELLA SANTA	SHEET:	15 OF 31

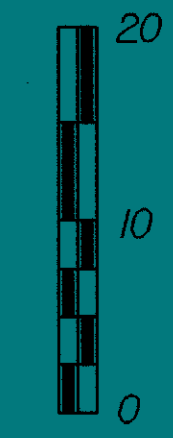
Profile



**ARCHIVED
IN DPR**



DATUM
VERTICAL: NAVD88
HORIZONTAL: NAD83 (92)

SCALES IN FEET



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/S0DB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076PI	SURVEY DATE:	9/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	16 OF 31

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL	
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM (in)			TUBULAR STEEL (in)				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											lb/ft			lb/ft			lb/ft			FTG. SIZE		WEIGHT	POST SIZE					
											1.2	2.0	3.0	1.75	2.0	2.5	3.0	4.0	4.0 MOD.	3.0	3.5			4.0	5.0			
140+35 RT		1	30	30	6.25			1			X	X													S3-1	E-153		
43+08 RT		1	30	30	6.25			1			X	X													W11-6H	E-153		
45+76 RT	T.I.C.						8	2			X															NON GOVERNMENT PARTICIPATING		
	T.I.C.						8																			NON GOVERNMENT PARTICIPATING		

ARCHIVED
IN DPR

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF		FT	FT	EA.	LB	EA.	LB	EA.	EA.	LB
	12.50			16		30	30							

PROJECT: **LUDLOW**

DESIGN FILE NAME: /SODB/97B076/DB076FRM.DGN

IPARM FILE NAME: DB076TS.I

SURVEYED BY: ORVIS

SQUAD LEADER: DELLA SANTA

PROJECT NO.: **NH 025-1(38)S**

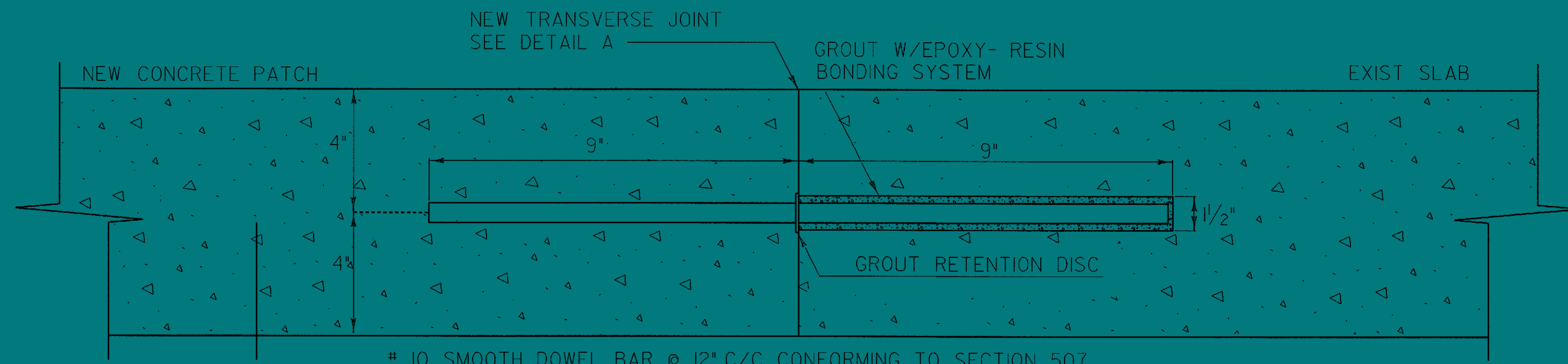
PLOT DATE: 07-APR-2000

SURVEY DATE: 9-15-97

DRAWN BY: SODB

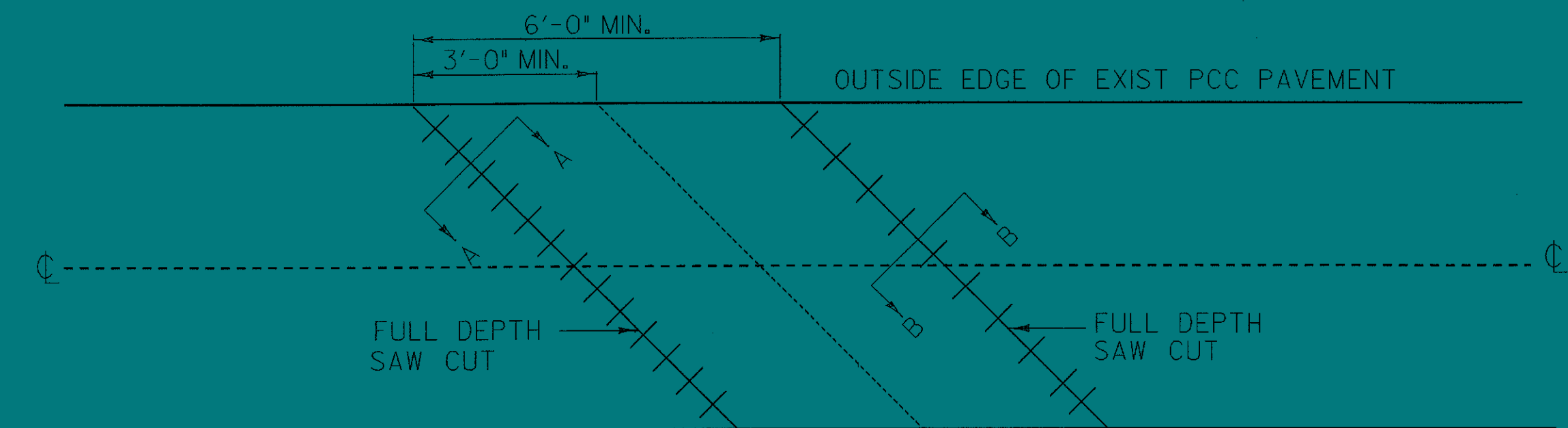
SHEET: 17 OF 31

PCC PATCH DETAILS

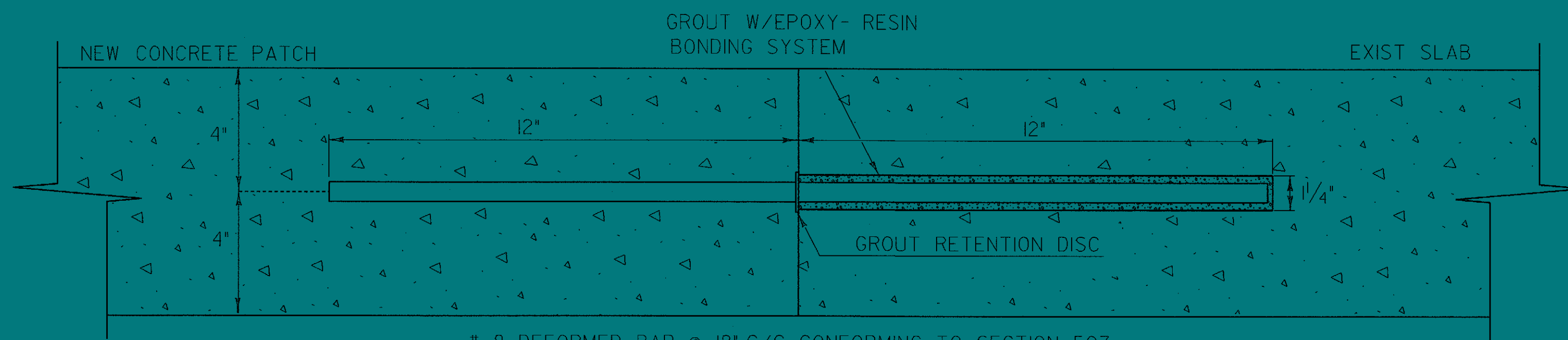


10 SMOOTH DOWEL BAR @ 12" C/C CONFORMING TO SECTION 507.
EPOXY COATED; BOND BREAKER COATING FULL LENGTH

SECT A-A, WORKING CONSTRUCTION JOINT

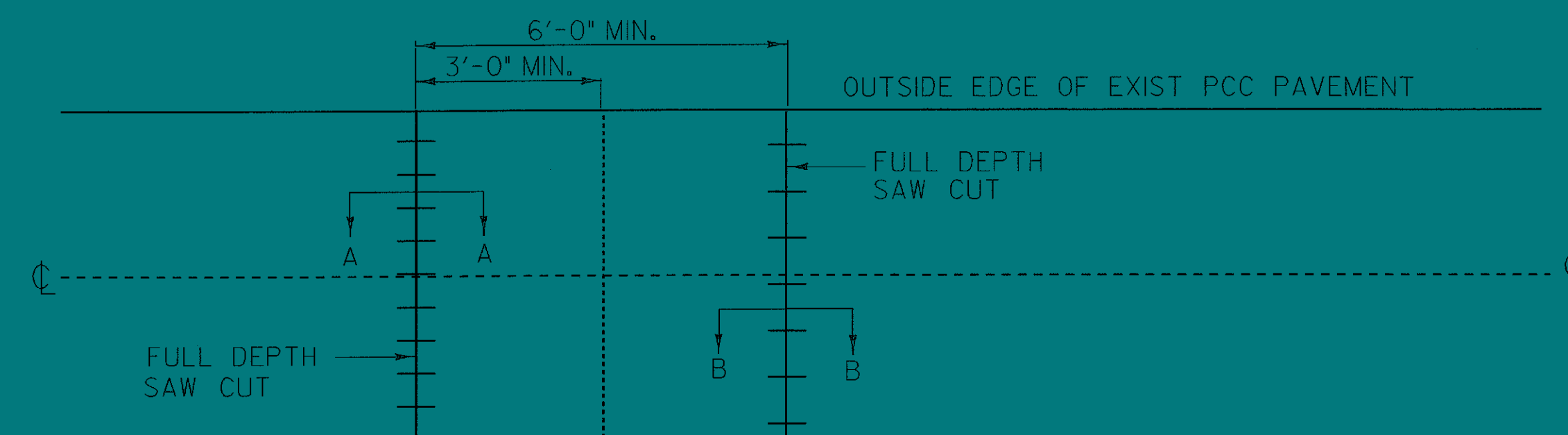


SLAB REPAIR DETAIL

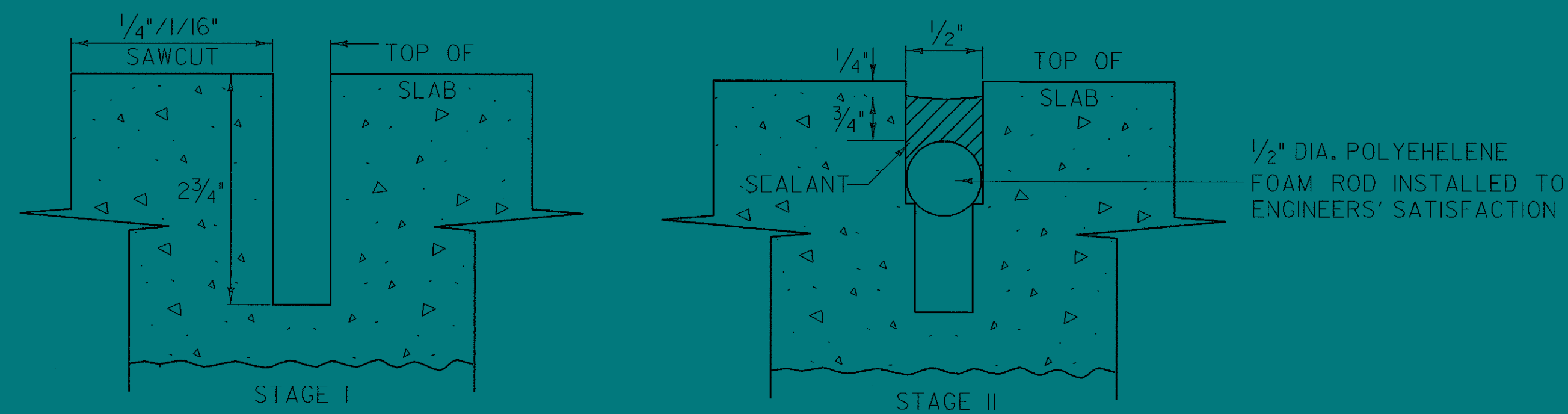


8 DEFORMED BAR @ 18" C/C CONFORMING TO SECTION 507.

SECT B-B, FIXED CONSTRUCTION JOINT

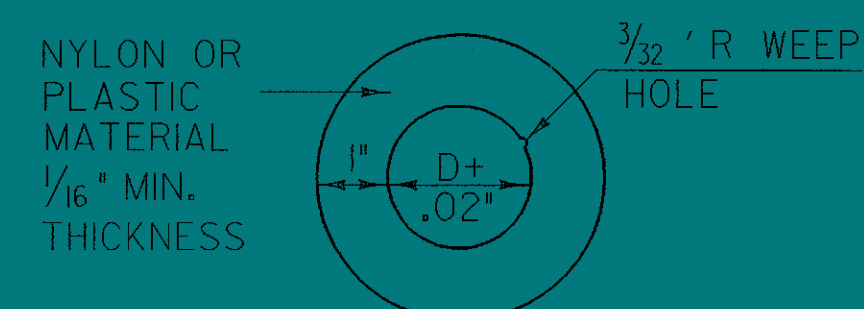


SLAB REPAIR DETAIL



DETAIL A

SAWCUT & SEALANT DETAILS FOR PORTLAND CEMENT CONCRETE



GROUT RETENTION DISC DETAIL
D = DOWEL DIAMETER INCLUDING ANY PROTECTIVE COATING.

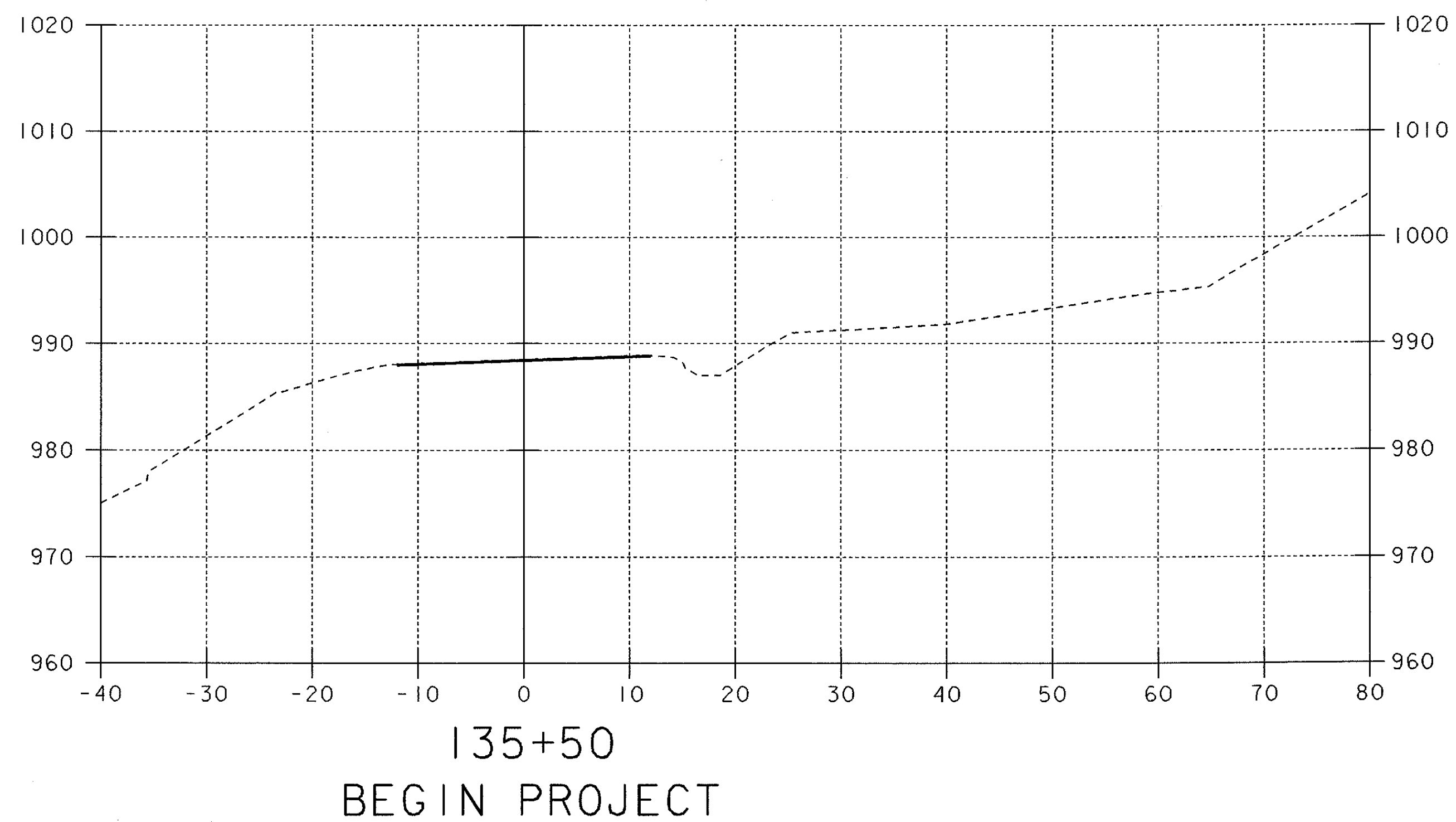
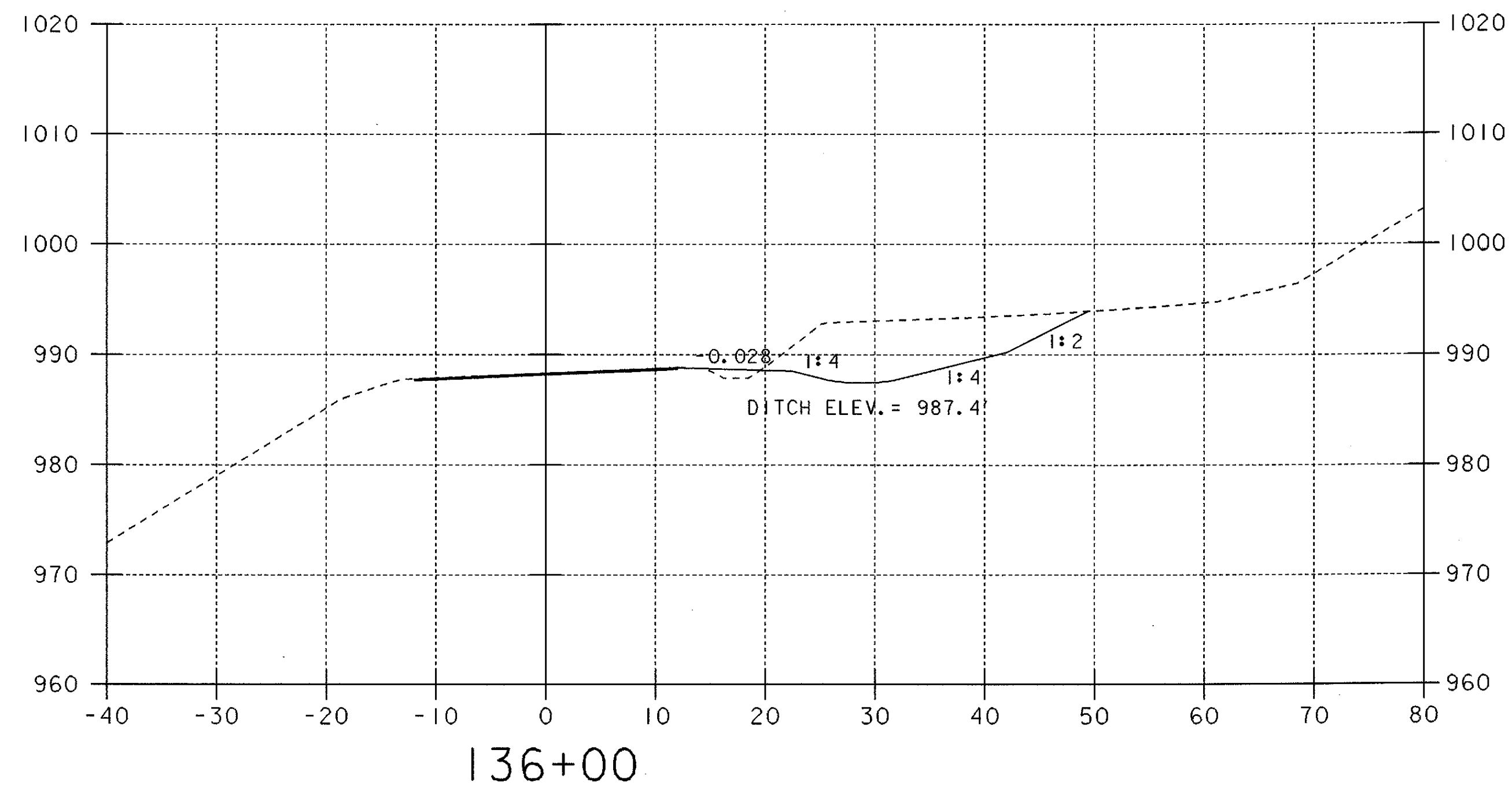
DOWEL PLACEMENT SEQUENCE

1. AFTER DRILLING, THE HOLE SHALL BE BLOWN OUT AND ALLOWED TO DRY.
2. THE CEMENT GROUT OR EPOXY SHALL BE PLACED IN THE HOLE, FROM BACK TO FRONT, BY USE OF A FLEXIBLE TUBE.
3. INSERT THE DOWEL INTO THE HOLE WITH A SLIGHT TWISTING MOTION SUCH THAT THE MATERIAL IN BACK IS FORCED UP AND AROUND THE DOWEL.
4. INSERT THE GROUT RETENTION DISC OVER THE DOWL & UP AGAINST THE SLAB FACE. THE DISC SHALL HAVE A TIGHT FIT OVER THE DOWEL AND BE FLUSH AGAINST THE SLAB FACE.

**ARCHIVED
IN DPR**

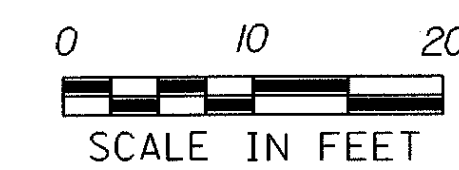
NOT TO SCALE

PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SODB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076FD	SURVEY DATE:	9/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	18 OF 31

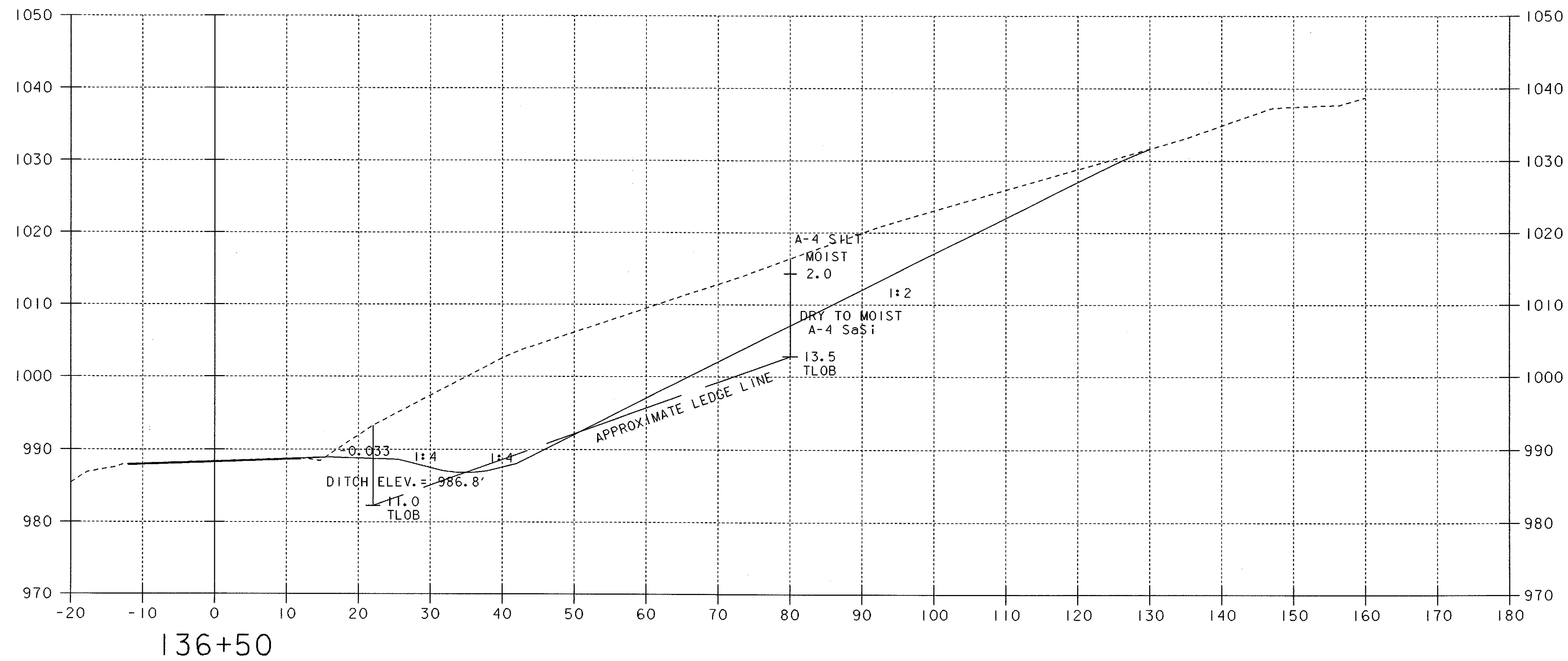


DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



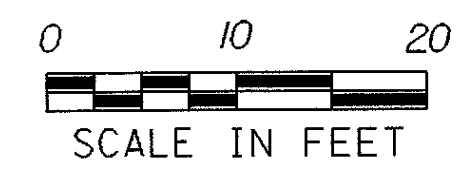
PROJECT: <u>LUDLOW</u>	PROJECT NO.: <u>NH 025-1(38)S</u>
DESIGN FILE NAME: <u>/SODB/97B016/DE076WRK.DGN</u>	PLOT DATE: <u>07-APR-2000</u>
IPARM FILE NAME: <u>DB076X01</u>	SURVEY DATE: <u>09/15/97</u>
SURVEYED BY: <u>ORVIS</u>	DRAWN BY: <u>SQUAD B</u>
SQUAD LEADER: <u>DELLA SANTA</u>	SHEET: <u>19</u> OF <u>31</u>



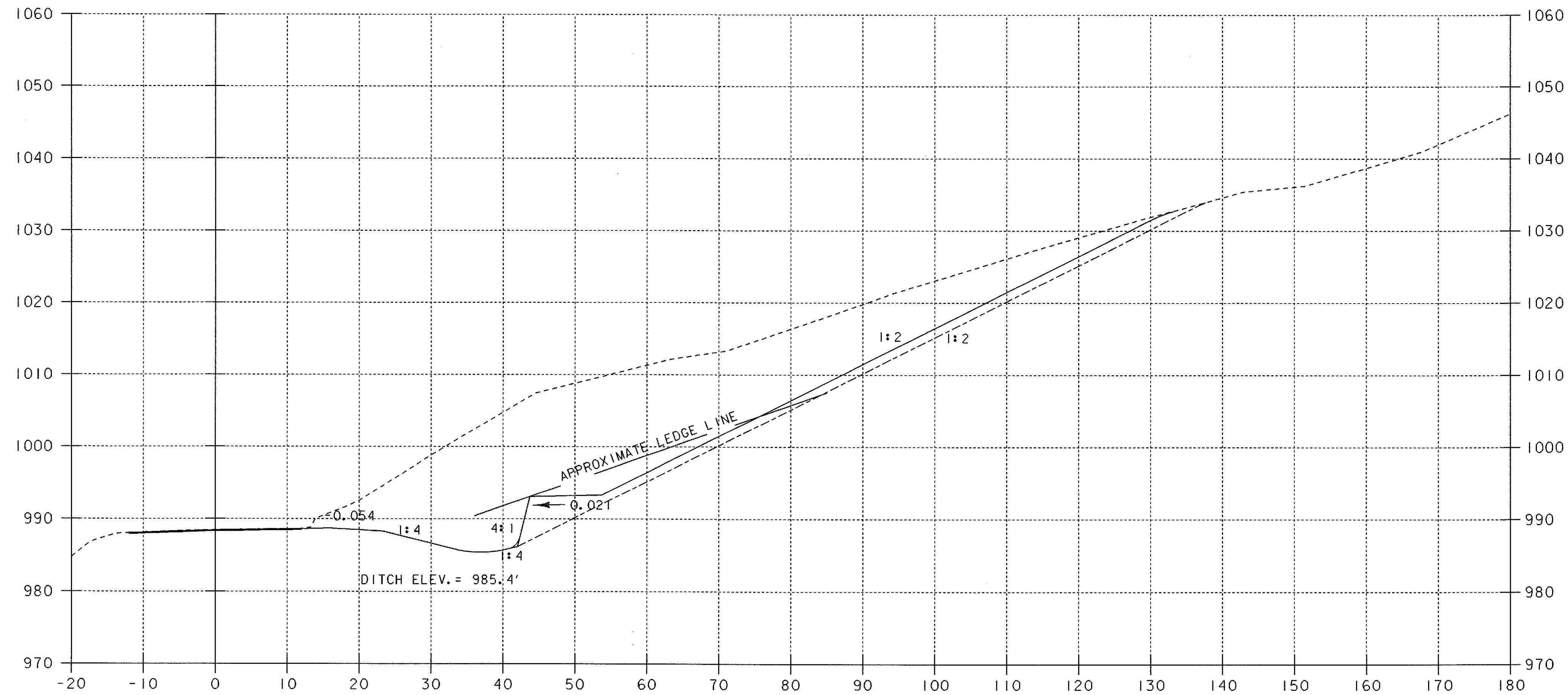
136+50

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



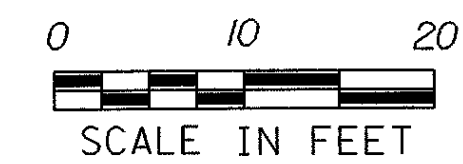
PROJECT:	<u>LUDLOW</u>	PROJECT NO.:	<u>NH 025-11381S</u>
DESIGN FILE NAME:	<u>/S0DB/97B076/DB076WRK.DGN</u>	PLOT DATE:	<u>07-APR-2000</u>
IPARM FILE NAME:	<u>DB076X02</u>	SURVEY DATE:	<u>09/15/97</u>
SURVEYED BY:	<u>ORVIS</u>	DRAWN BY:	<u>SQUAD B</u>
SQUAD LEADER:	<u>DELLA SANTA</u>	SHEET:	<u>20 OF 31</u>



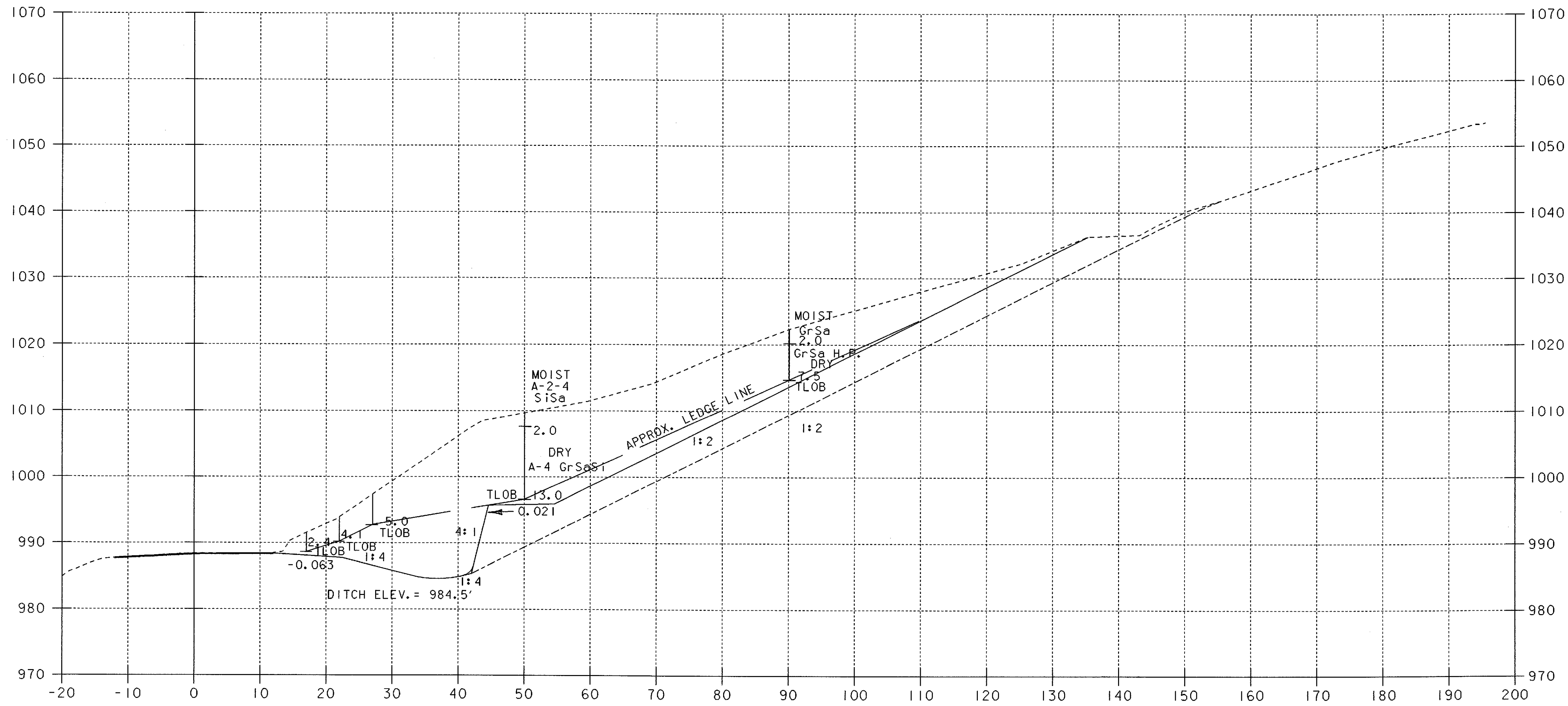
137+00

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



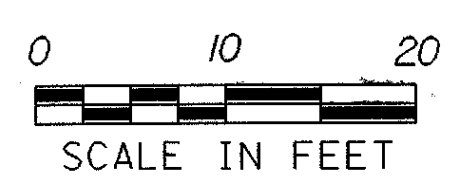
PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SODB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076X03	SURVEY DATE:	09/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	21 OF 31



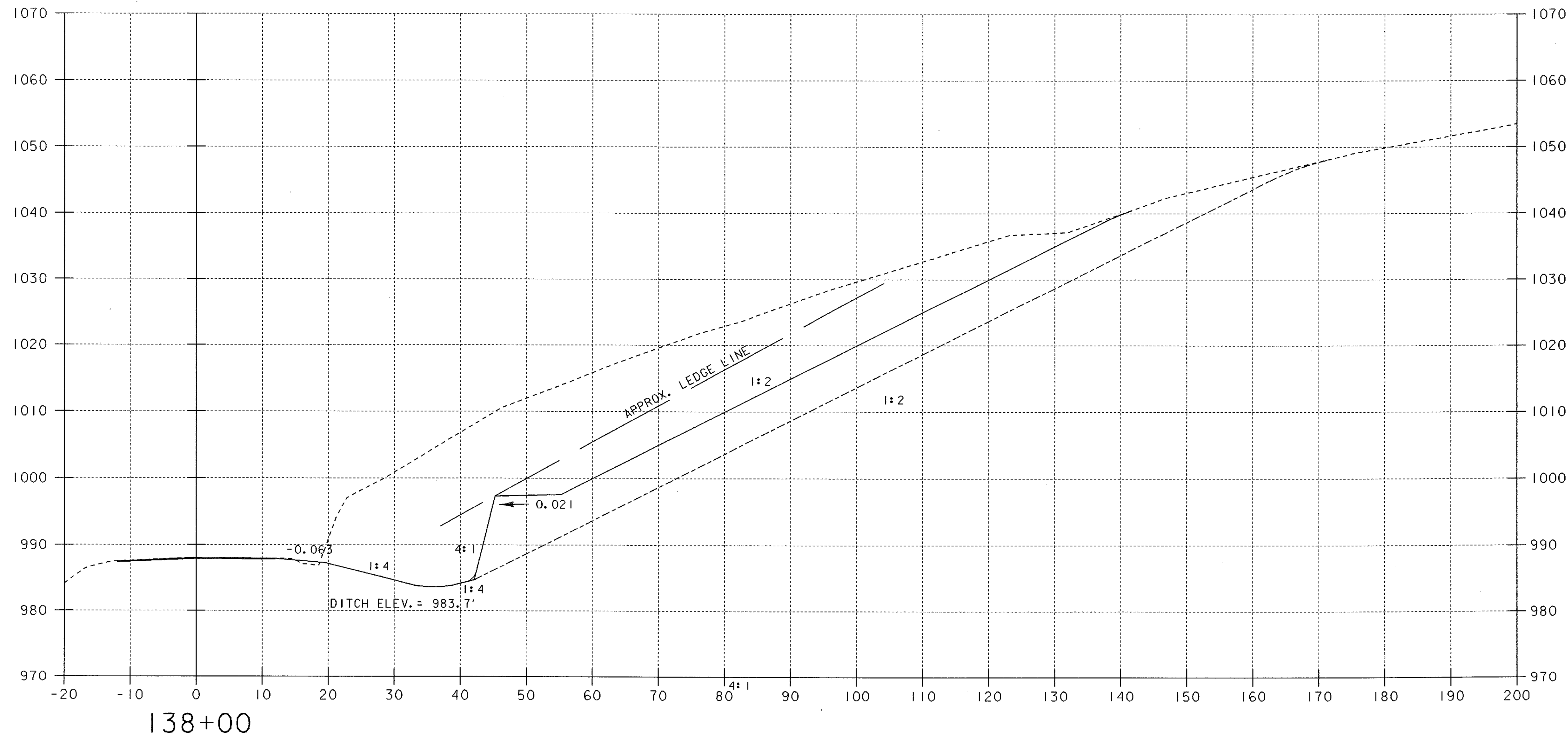
137+50

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.

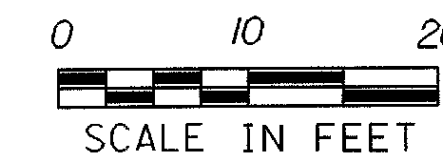


PROJECT:	<u>LUDLOW</u>	PROJECT NO.:	<u>NH 025-1(38)S</u>
DESIGN FILE NAME:	<u>/SQDB/97B076/DB076WRK.DGN</u>	PLOT DATE:	<u>07-APR-2000</u>
IPARM FILE NAME:	<u>DB076X04</u>	SURVEY DATE:	<u>09/15/97</u>
SURVEYED BY:	<u>ORVIS</u>	DRAWN BY:	<u>SQUAD B</u>
SQUAD LEADER:	<u>DELLA SANTA</u>	SHEET:	<u>22 OF 31</u>

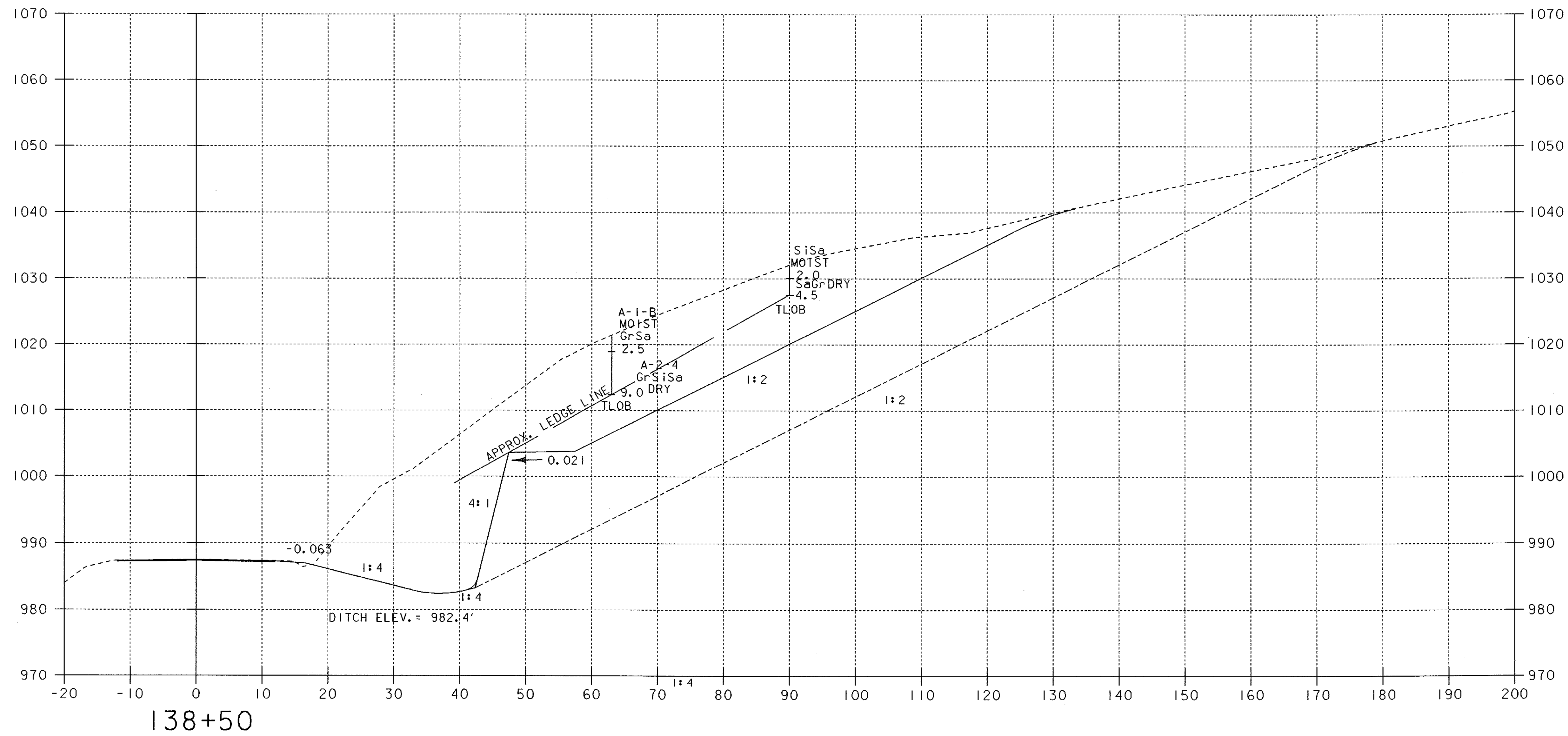


DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.

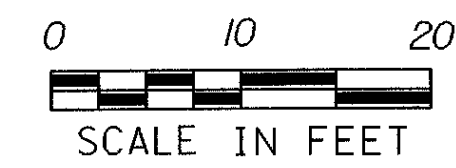


PROJECT:	<u>LUDLOW</u>	PROJECT NO.:	<u>NH 025-1(38)S</u>
DESIGN FILE NAME:	<u>/SODB/97B076/DB076WRK.DGN</u>	PLOT DATE:	<u>07-APR-2000</u>
IPARM FILE NAME:	<u>DB076X05</u>	SURVEY DATE:	<u>09/15/97</u>
SURVEYED BY:	<u>ORVIS</u>	DRAWN BY:	<u>SQUAD B</u>
SQUAD LEADER:	<u>DELLA SANTA</u>	SHEET:	<u>23 OF 31</u>

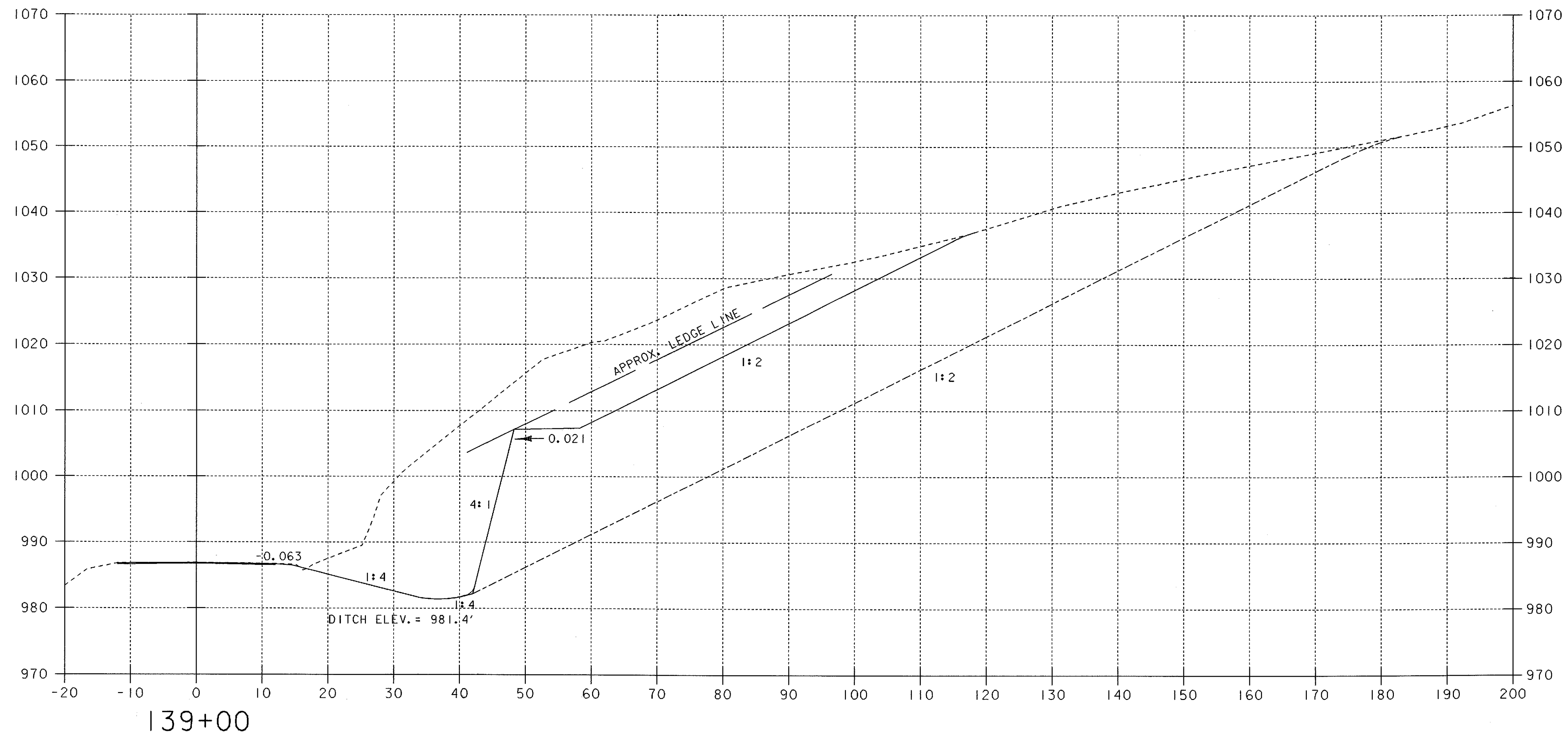


DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

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 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



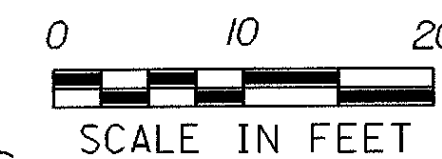
PROJECT:	<u>LUDLOW</u>	PROJECT NO.:	<u>NH 025-1(38)S</u>
DESIGN FILE NAME:	<u>/SODB/97B076/DB076WRK.DGN</u>	PLOT DATE:	<u>07-APR-2000</u>
IPARM FILE NAME:	<u>DB076X06</u>	SURVEY DATE:	<u>09/15/97</u>
SURVEYED BY:	<u>ORVIS</u>	DRAWN BY:	<u>SQUAD B</u>
SQUAD LEADER:	<u>DELLA SANTA</u>	SHEET:	<u>24 OF 31</u>



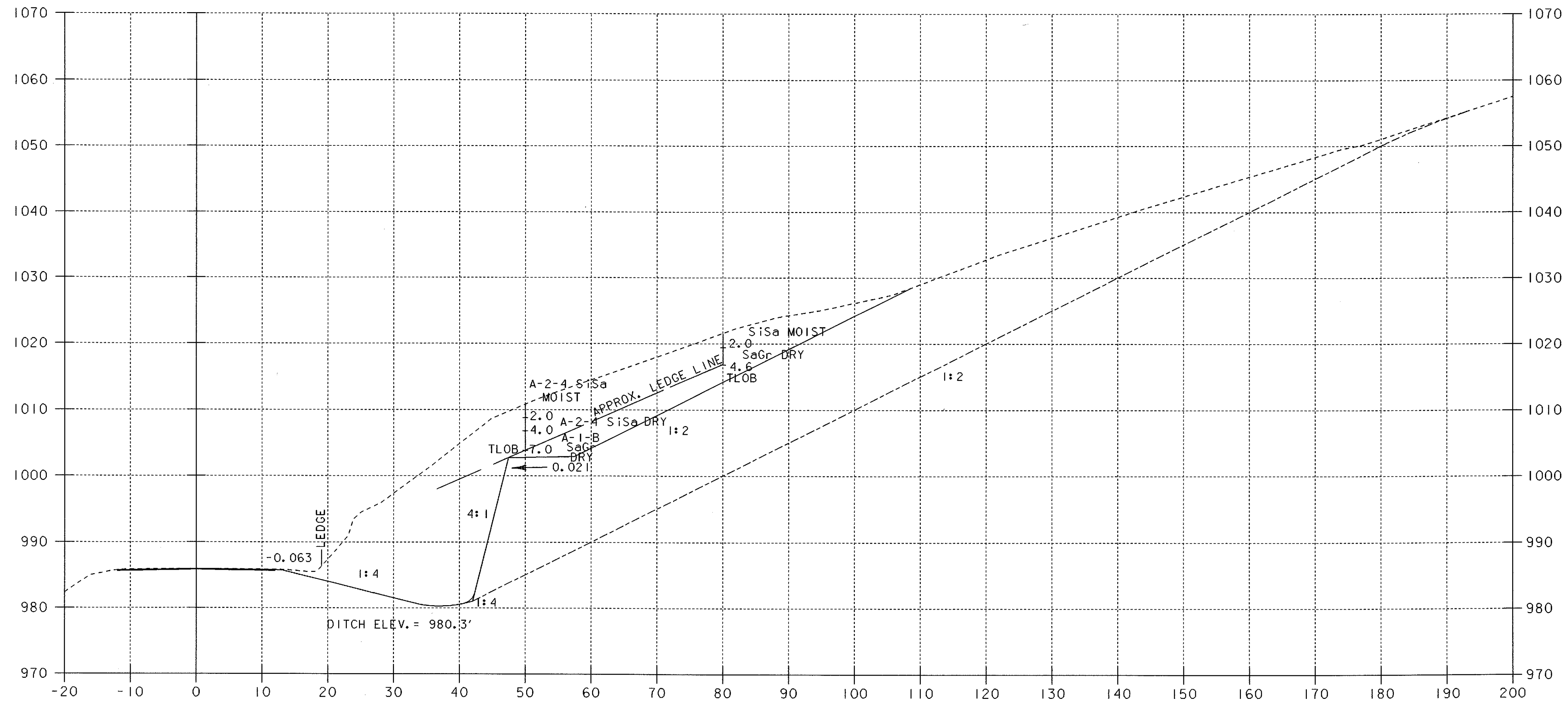
139+00

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



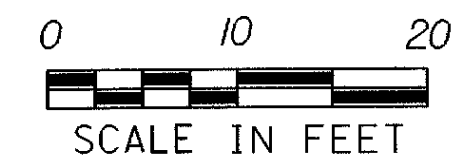
PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/S0DB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076X07	SURVEY DATE:	09/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	25 OF 31



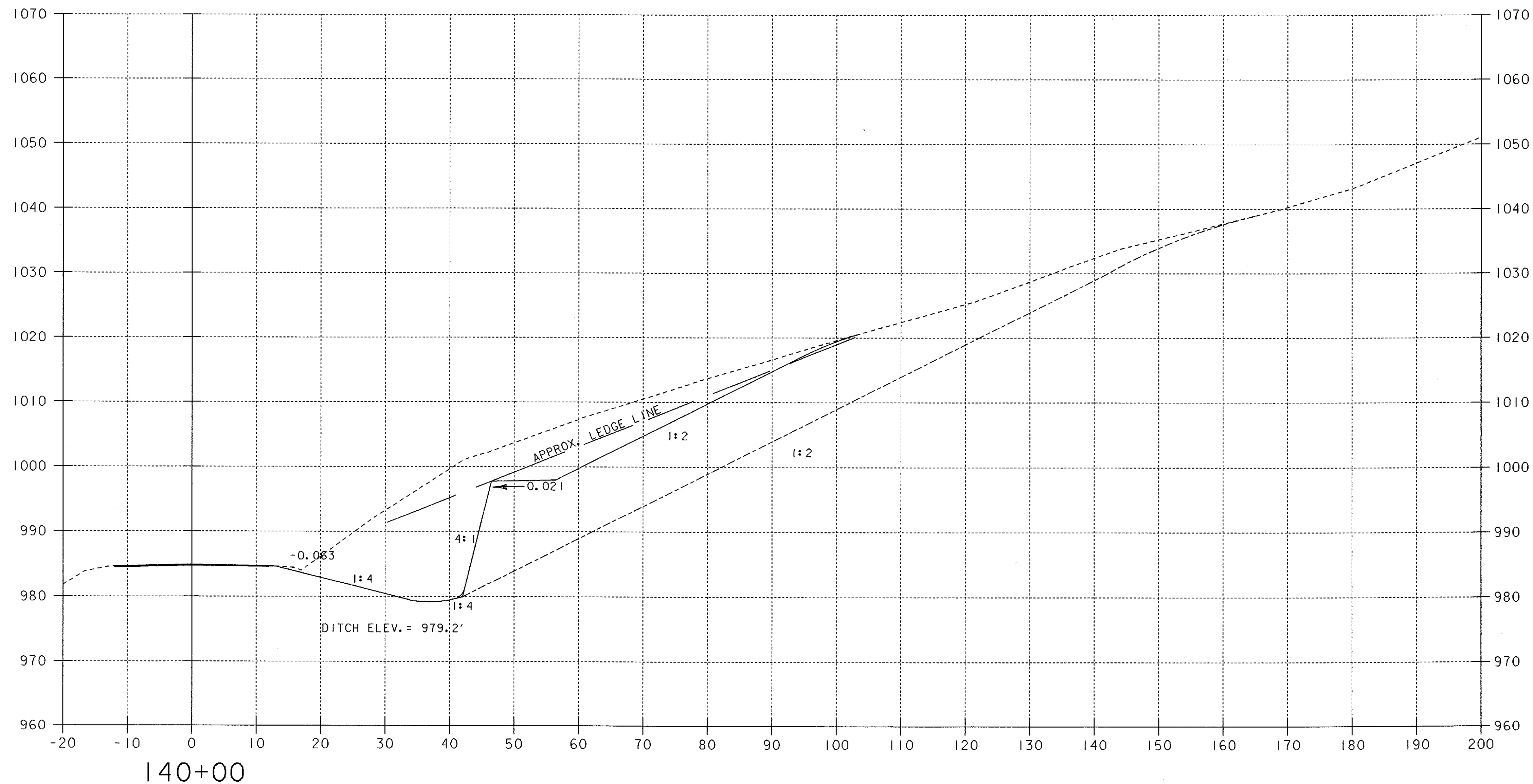
139+50

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.

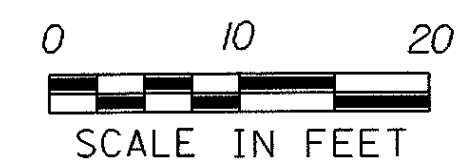


PROJECT: LUDLOW	PROJECT NO.: NH 025-1(38)S
DESIGN FILE NAME: /S0DB/97B076/DB076WRK.DGN	PLOT DATE: 07-APR-2000
IPARM FILE NAME: DB076X08	SURVEY DATE: 09/15/97
SURVEYED BY: ORVIS	DRAWN BY: SQUAD_B
SQUAD LEADER: DELLA SANTA	SHEET: 26 OF 31

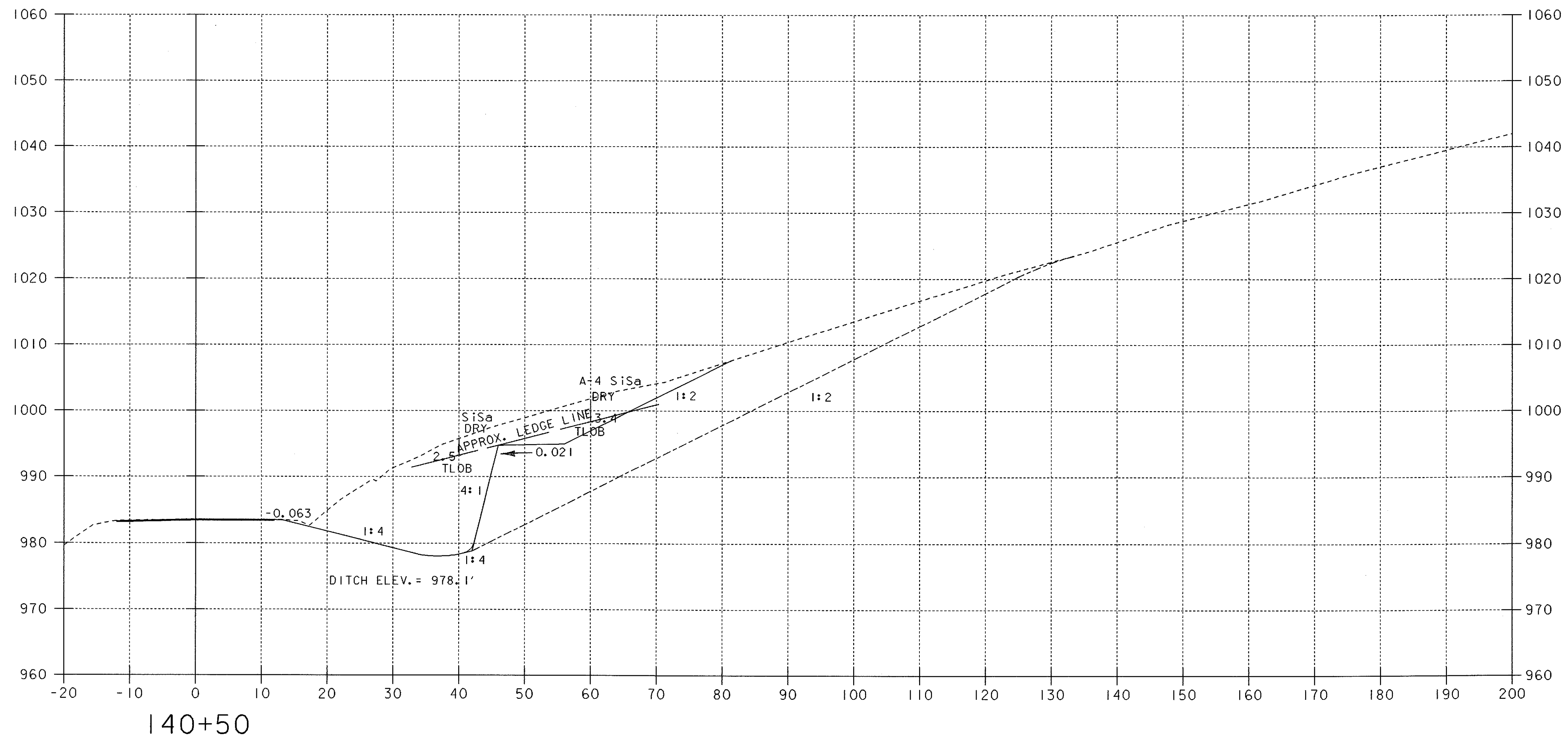


DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



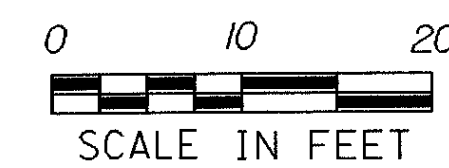
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DESIGN FILE NAME:	/SODB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076X09	SURVEY DATE:	09/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	27 OF 31



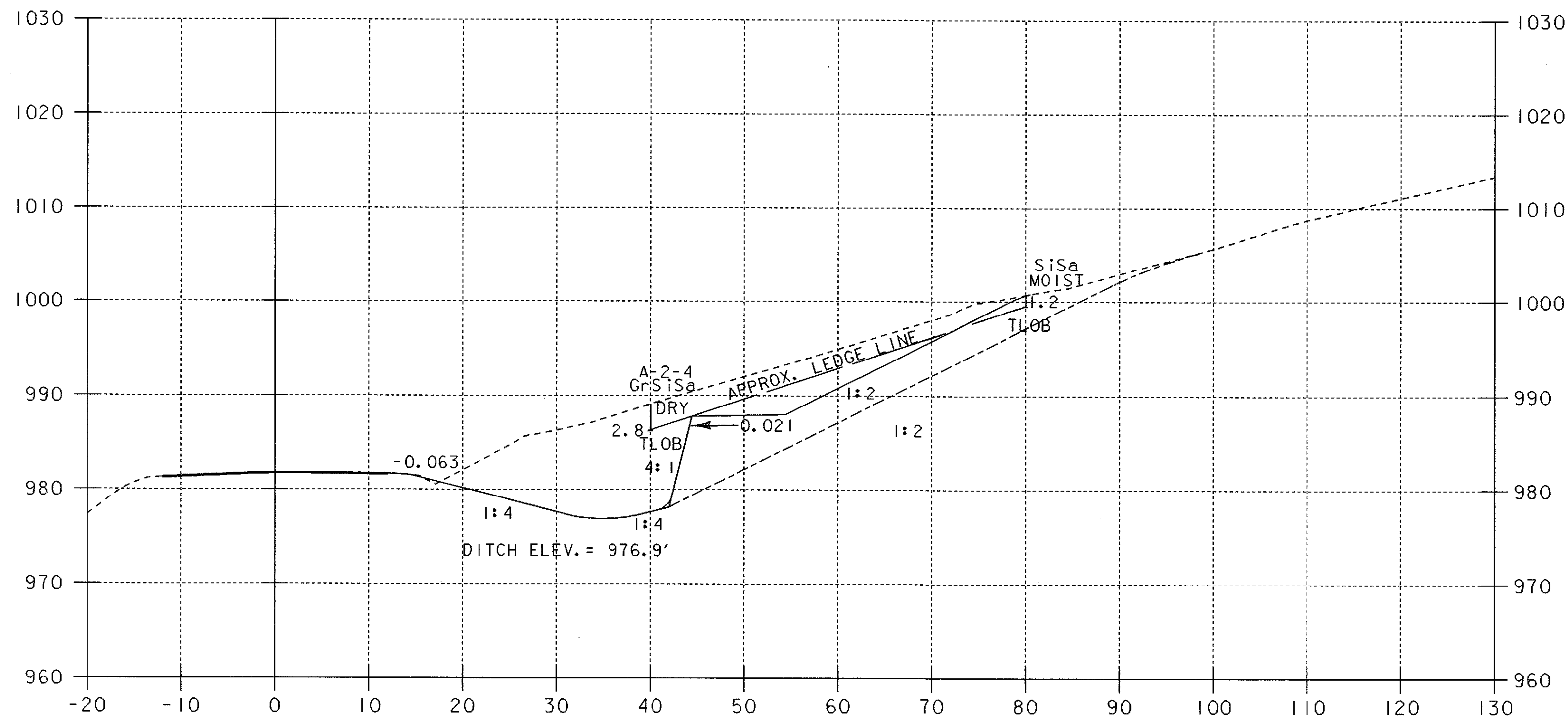
140+50

DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.

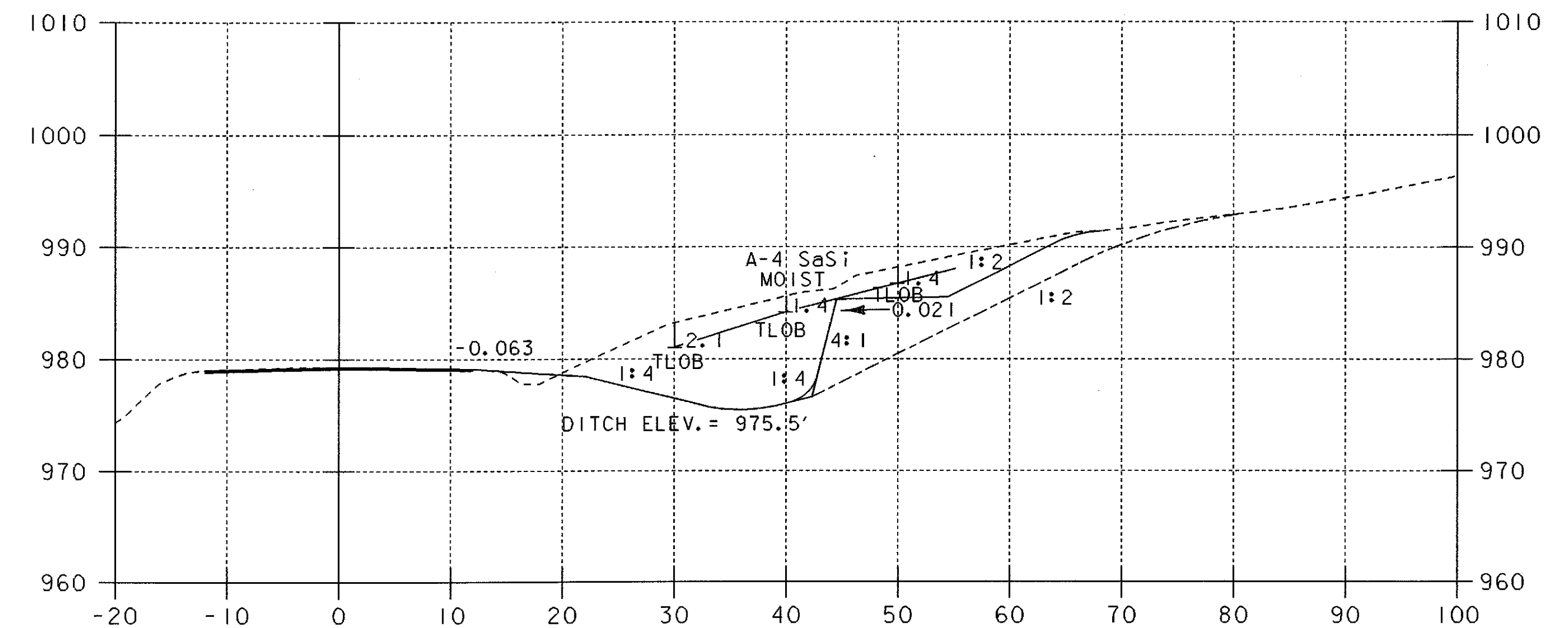


PROJECT: <u>LUDLOW</u>	PROJECT NO.: <u>NH 025-11381S</u>
DESIGN FILE NAME: <u>/S0DB/97B076/DB076WRK.DGN</u>	PLOT DATE: <u>07-APR-2000</u>
IPARM FILE NAME: <u>DB076X10</u>	SURVEY DATE: <u>09/15/97</u>
SURVEYED BY: <u>ORVIS</u>	DRAWN BY: <u>SQUAD B</u>
SQUAD LEADER: <u>DELLA SANTA</u>	SHEET: <u>28</u> OF <u>31</u>

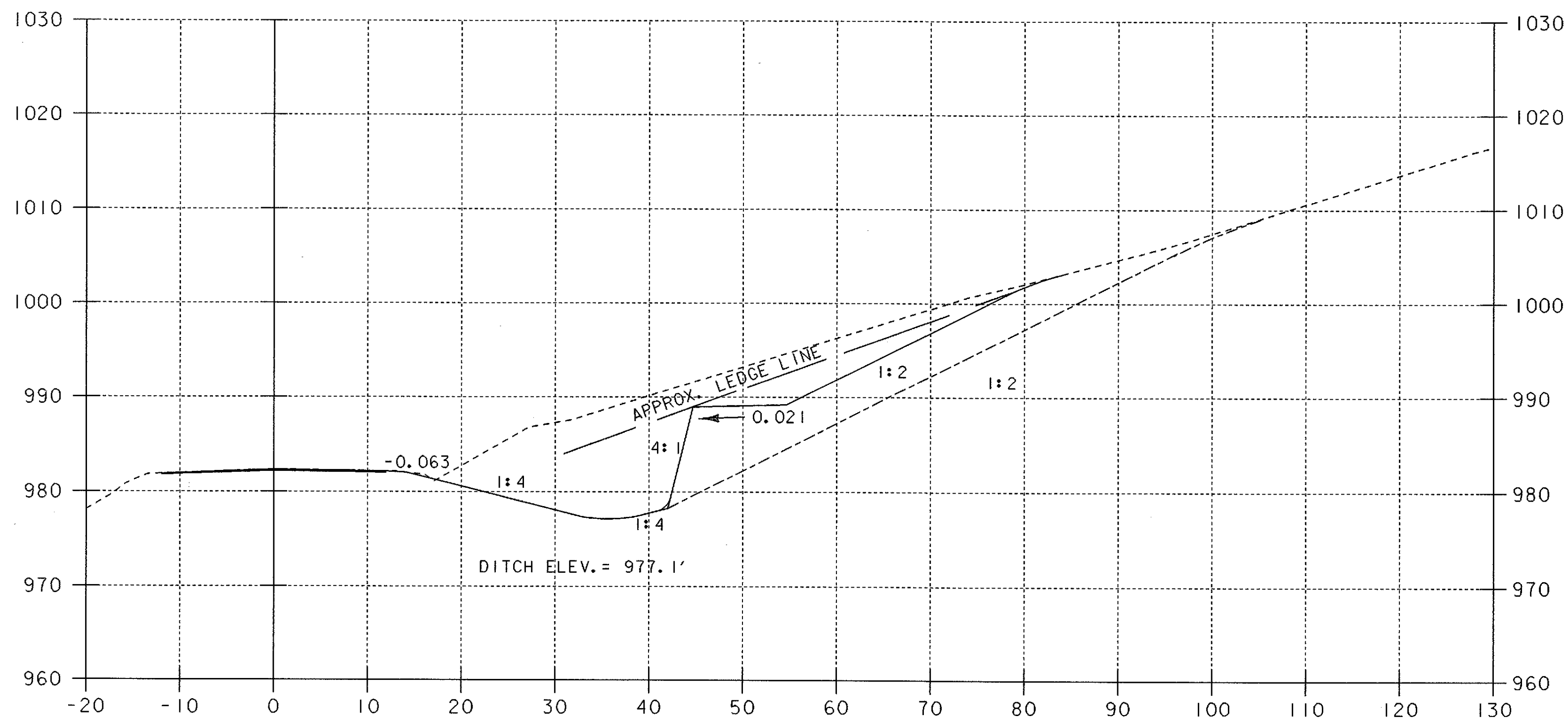


42+50

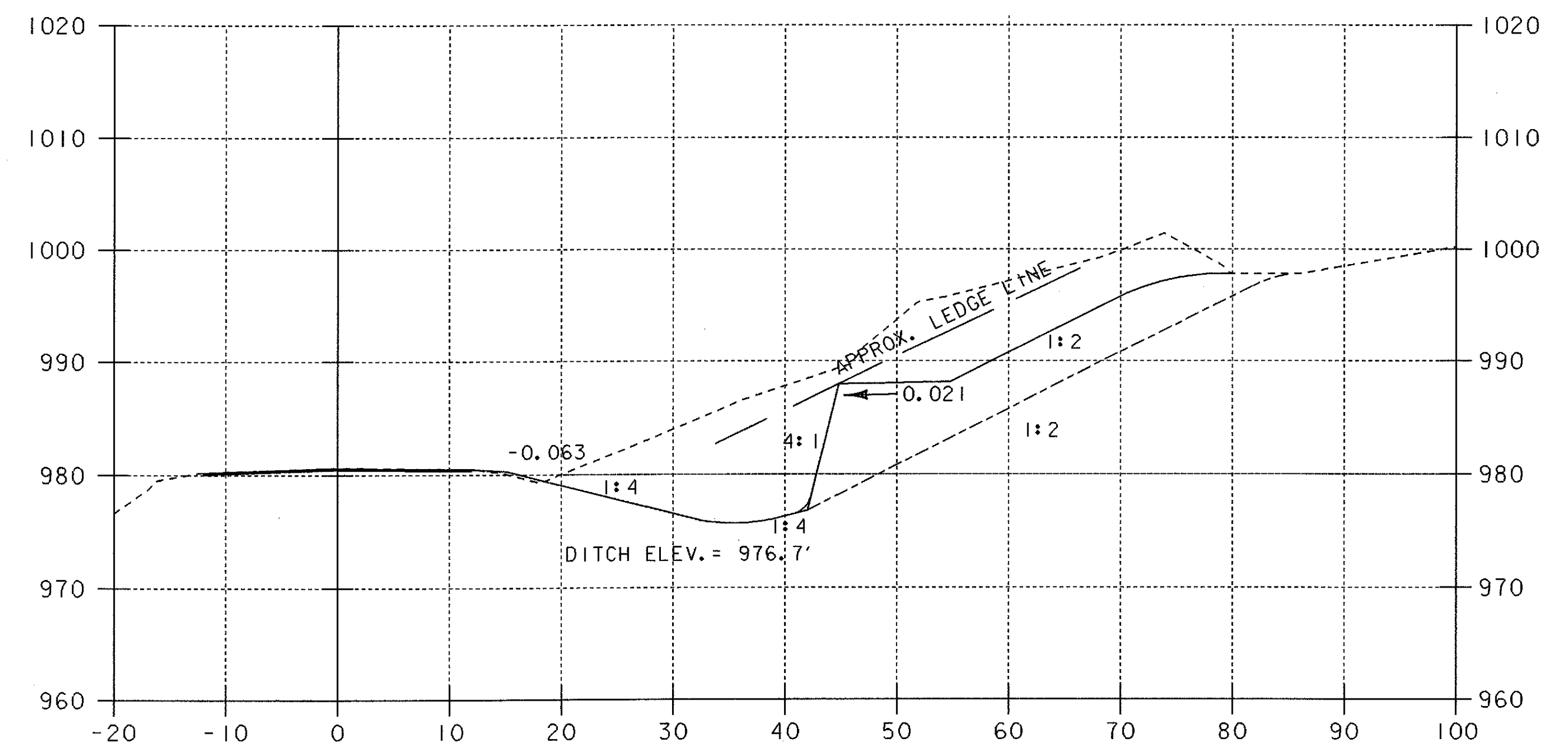
PT 141+05.77 = POT 42+36.33
EQ. = +9869.44'



43+50



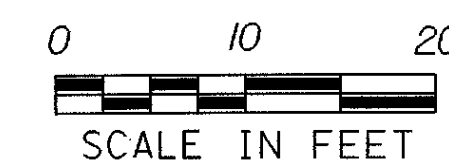
141+00



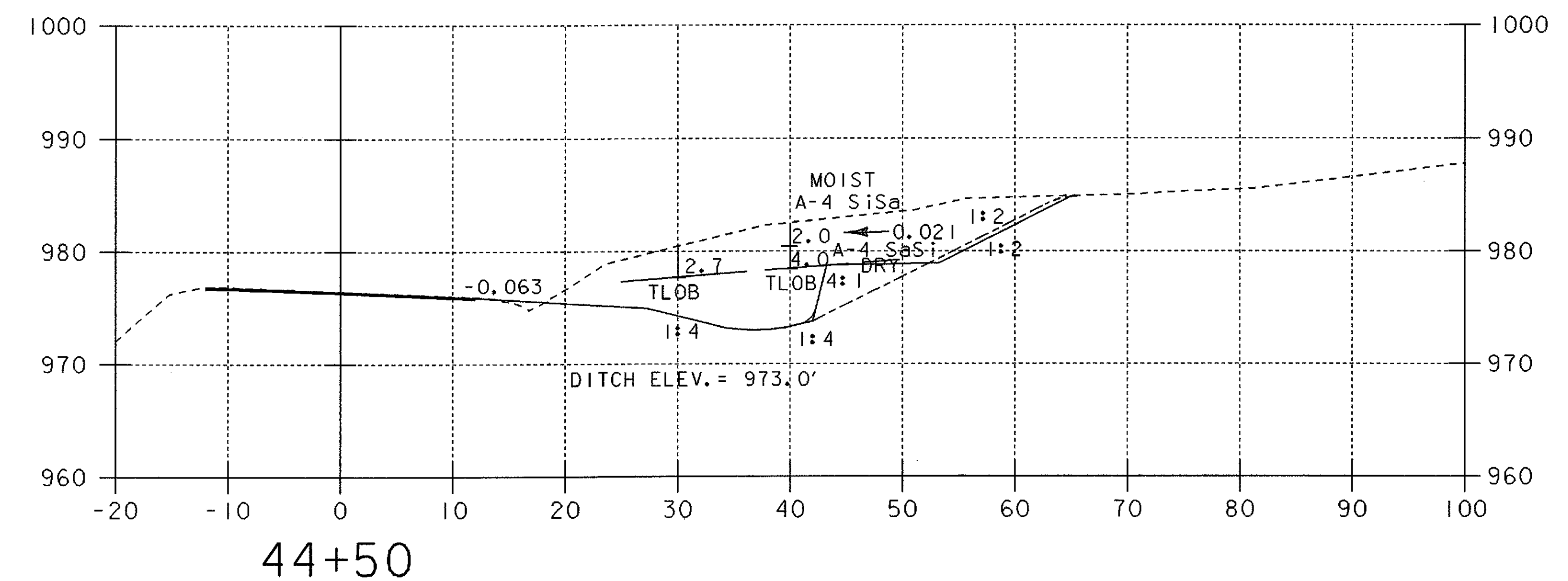
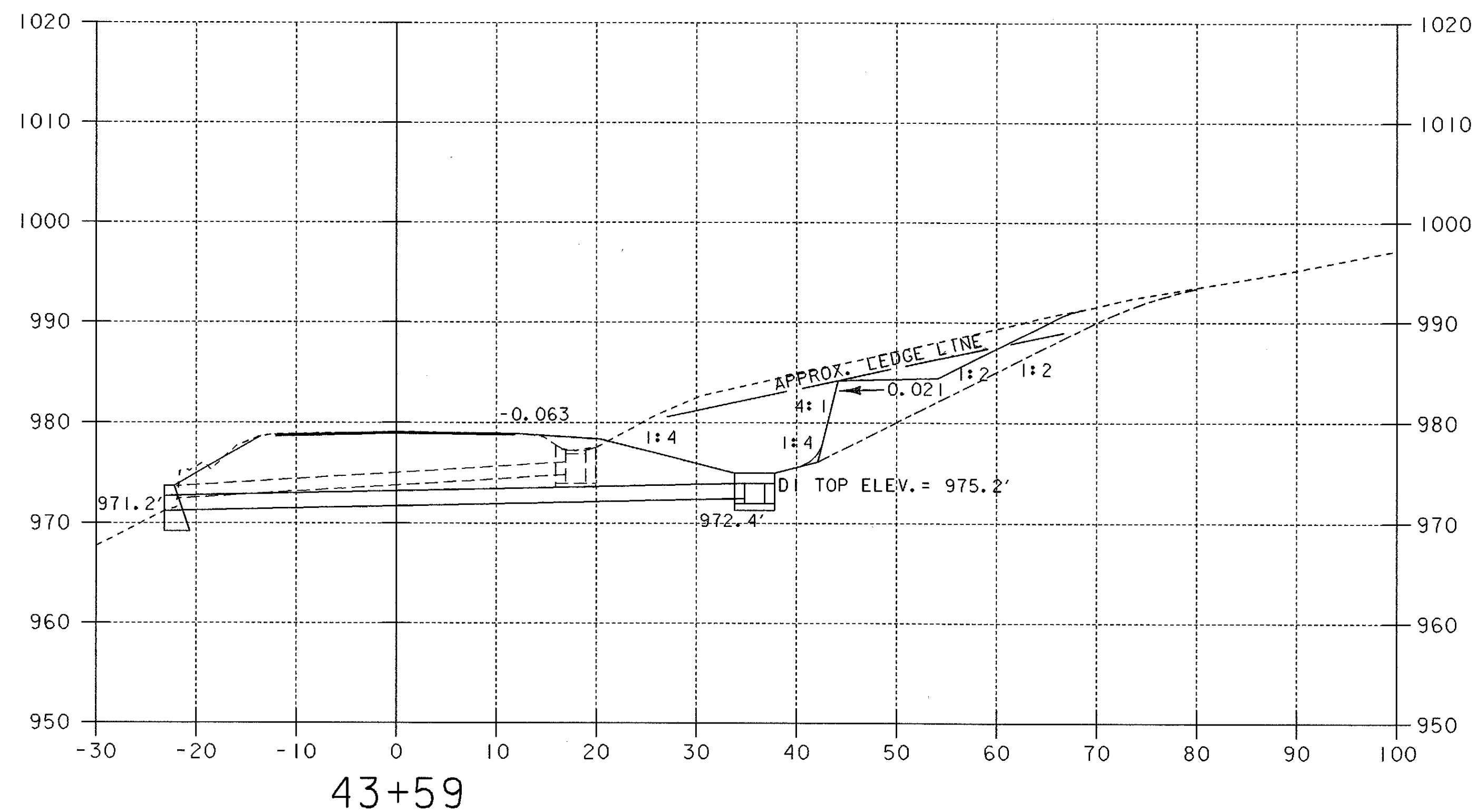
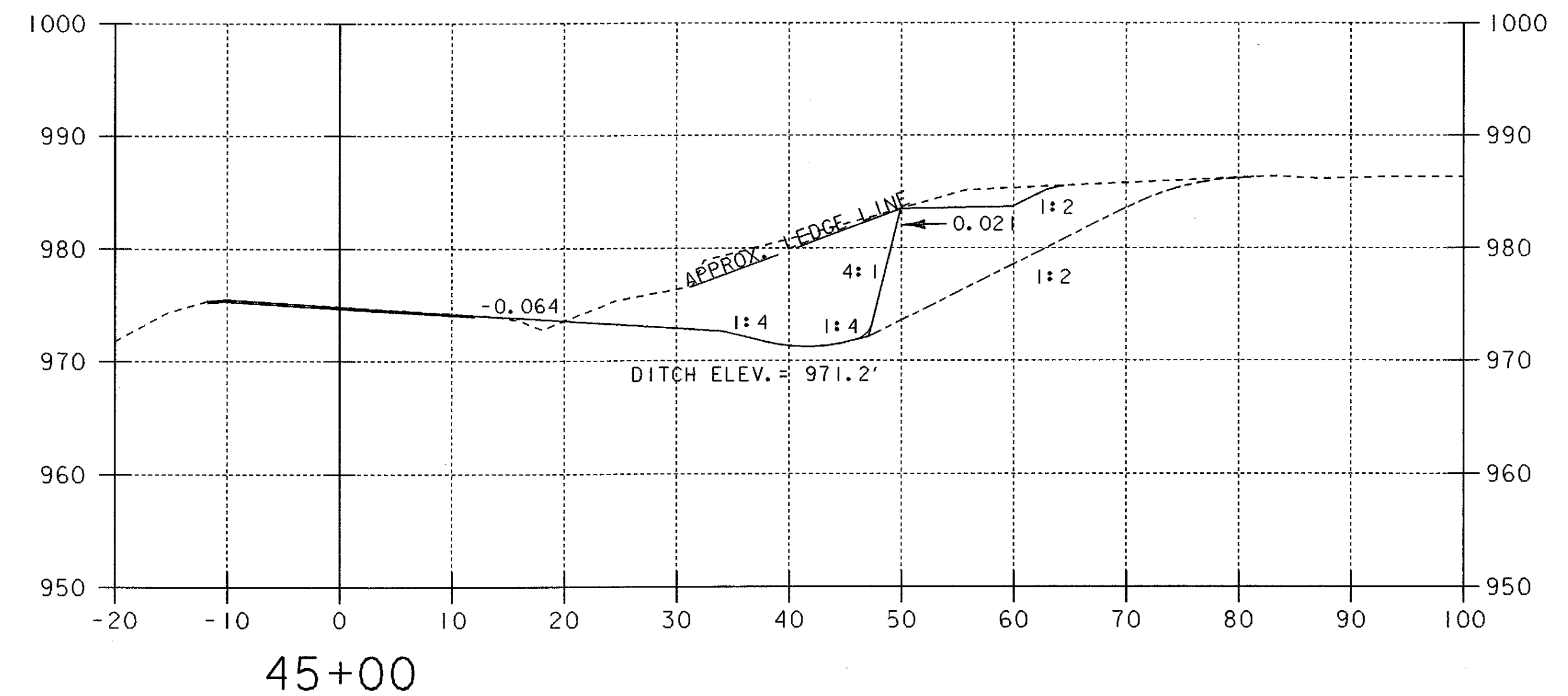
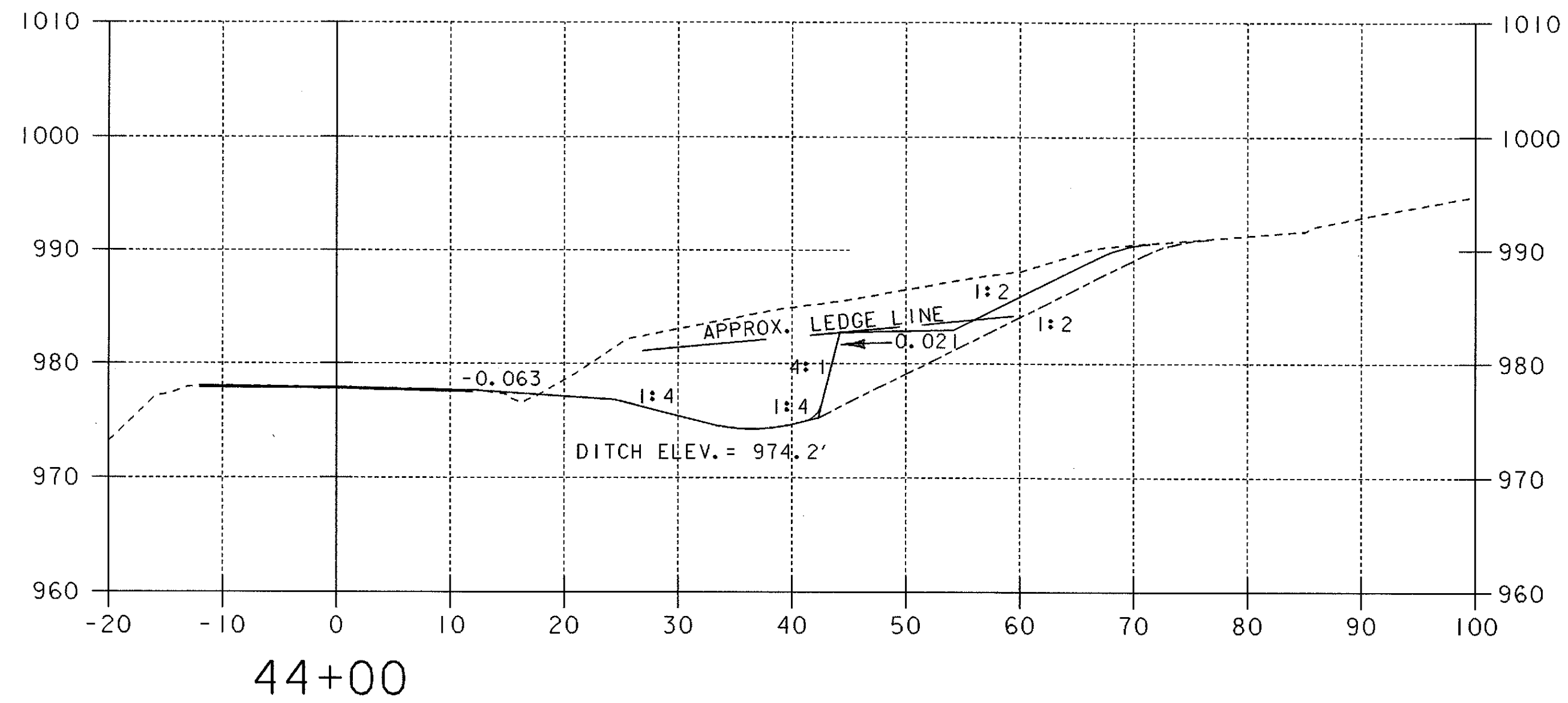
43+00

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (92)

NOTE : MATCH THE EXISTING GRADE.
MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1138S
DESIGN FILE NAME:	/SODB/97B076/DB076WRK.DGN		
IPARM FILE NAME:	DB076XII		
SURVEYED BY:	ORVIS	PLOT DATE:	07-APR-2000
SQUAD LEADER:	DELLA SANTA	SURVEY DATE:	09/15/97
		DRAWN BY:	SQUAD B
		SHEET:	29 OF 31

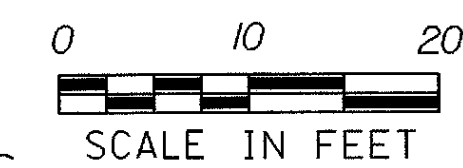


REPLACE HEADWALL, D.I. AND 15" RCP W/NEW 18" X 60' PCCSP (.064), CAAP (.060), RCP, CL. III, OR CPEP (SL), NEW HEADWALL AND D.I. (MODIFIED**)

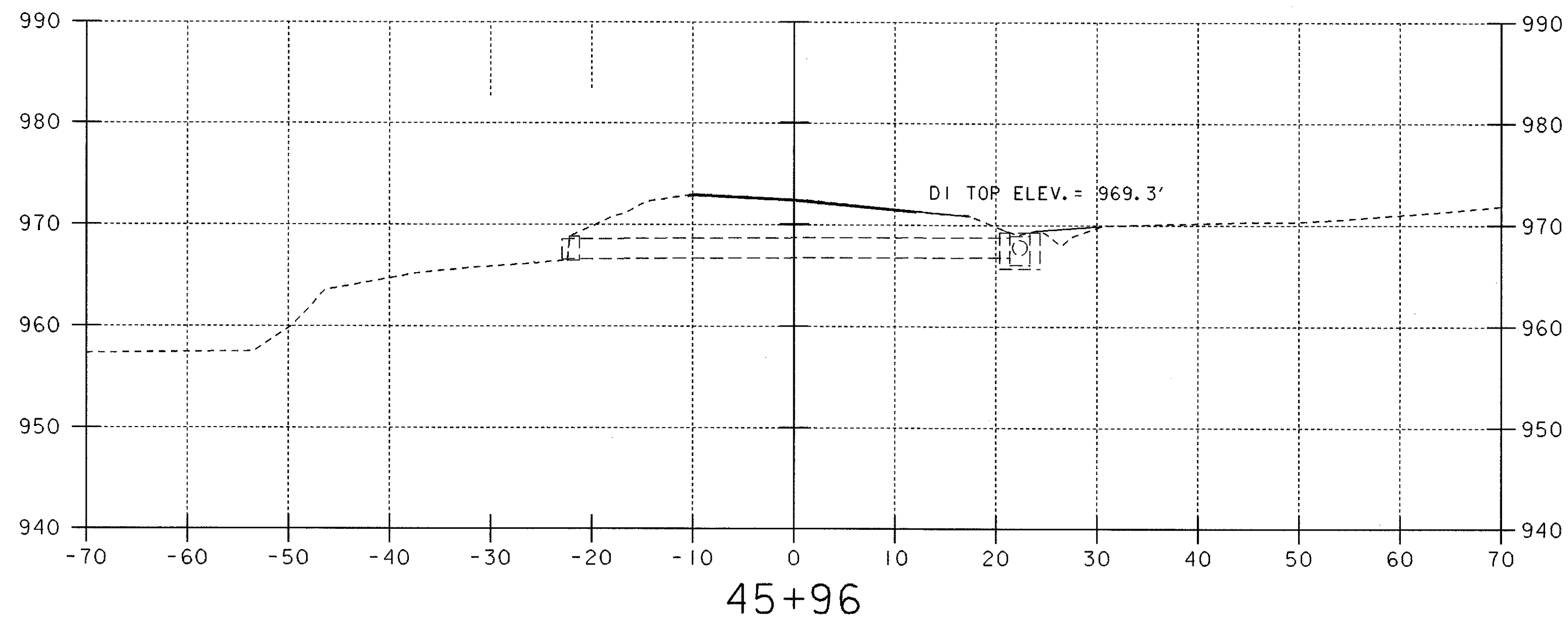
**THE MODIFICATION IS THAT THE COST FOR PATCHING THE PORTLAND CEMENT SLAB SHALL BE SUBSIDIARY TO THE PIPE REPLACEMENT COST.

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (92)

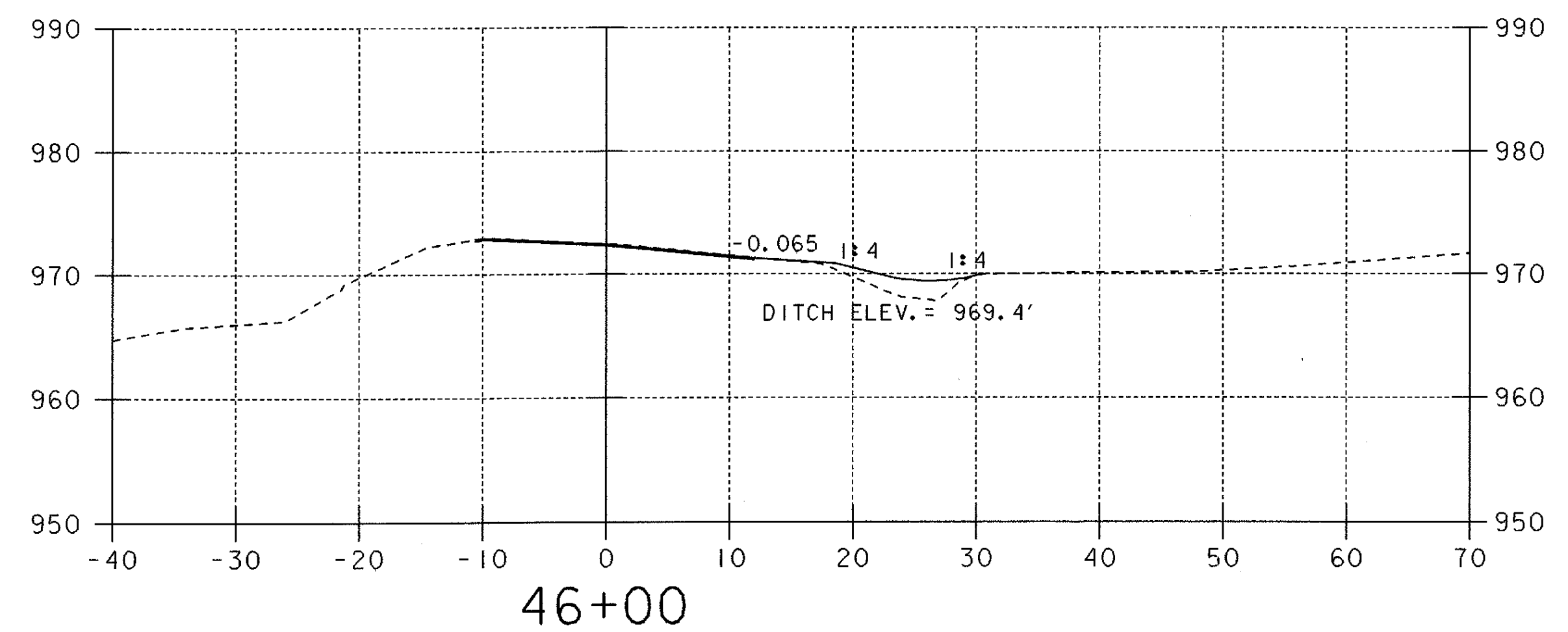
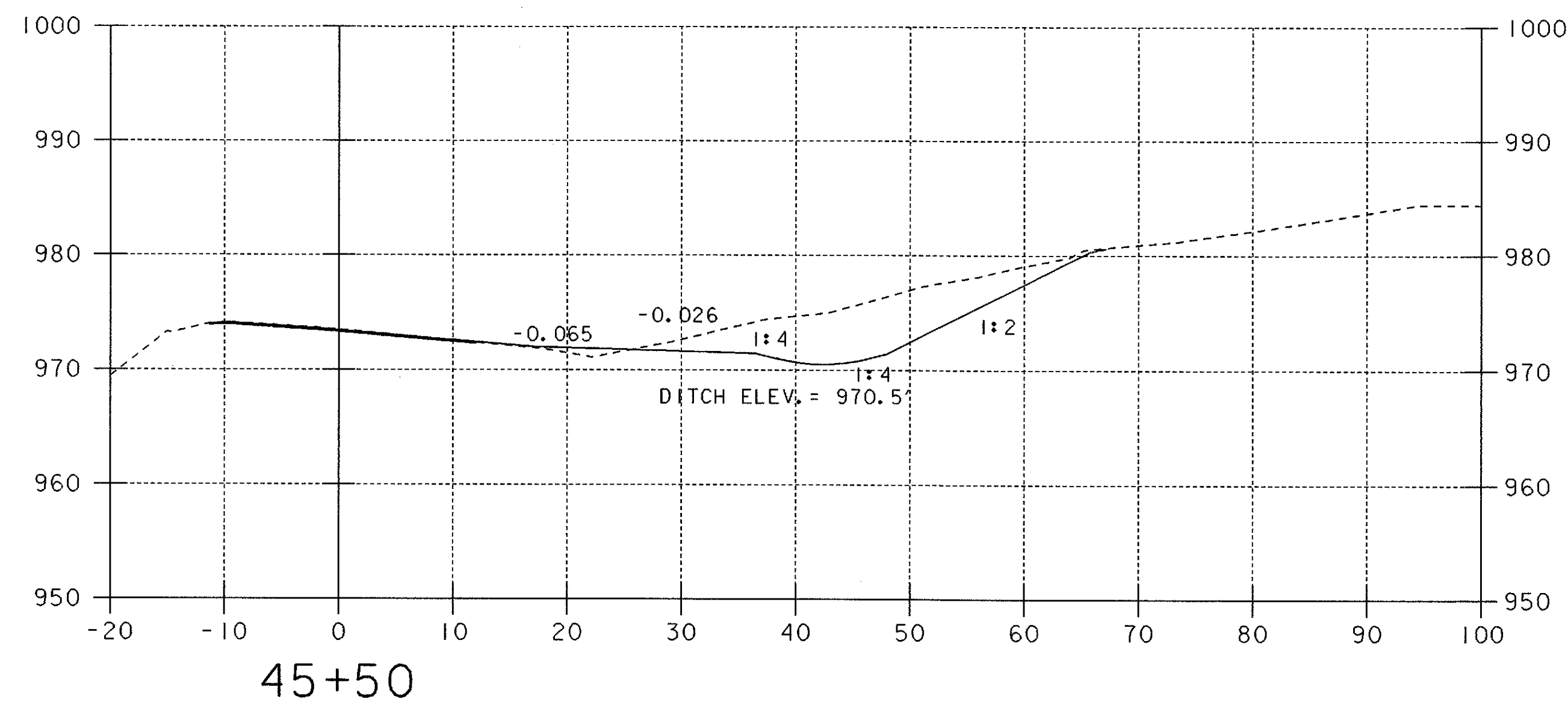
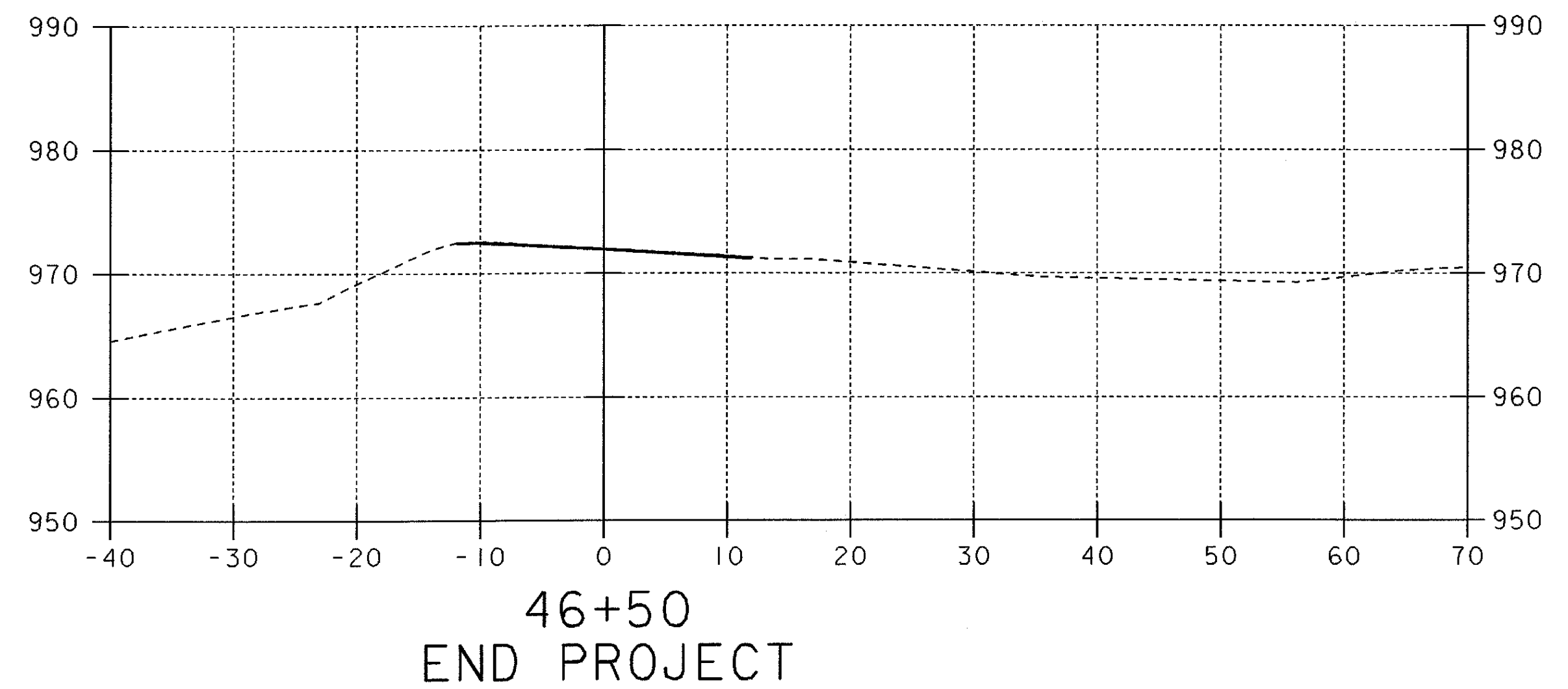
NOTE : MATCH THE EXISTING GRADE.
MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SODB/97B076/DE076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076X12	SURVEY DATE:	09/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	30 OF 37

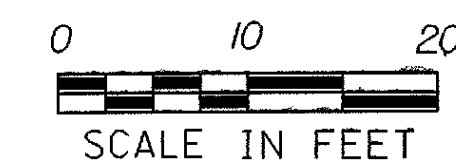


RETAIN EXISTING CULVERT AND D. I.



DATUM
 VERTICAL NAVD88
 HORIZONTAL NAD83 (92)

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 MATCH THE EXISTING CROSS SLOPES ALONG TRAVEL AND SHOULDER LANES.



PROJECT:	LUDLOW	PROJECT NO.:	NH 025-1(38)S
DESIGN FILE NAME:	/SODB/97B076/DB076WRK.DGN	PLOT DATE:	07-APR-2000
IPARM FILE NAME:	DB076X13	SURVEY DATE:	09/15/97
SURVEYED BY:	ORVIS	DRAWN BY:	SQUAD B
SQUAD LEADER:	DELLA SANTA	SHEET:	31 OF 31