

INDEX OF SHEETS

1. TITLE SHEET
- 2-3. SURVEY LAYOUT SHEETS
- 4-5. PROFILE SHEETS
- 6-7. BRIDGE QUANTITY SHEETS
- 8-9. R.O.W. SHEETS
10. PIPE DETAIL SHEET
11. GENERAL NOTES
12. INLET HEADWALL DETAILS
13. OUTLET HEADWALL DETAILS
14. REINFORCING STEEL SCHEDULE
- 15-24. ROADWAY SECTIONS
- 25-29. CHANNEL SECTIONS

STANDARDS

B-17	03-10-95
E-100	08-09-95
E-101	08-08-95
E-102	08-08-95
E-102a	08-08-95
E-107	08-08-95
E-107a	08-08-95
G-1	06-01-94
G-1d	06-01-94
G-18	06-01-94
T-1	06-01-94
T-2	06-01-94

STATE OF VERMONT AGENCY OF TRANSPORTATION



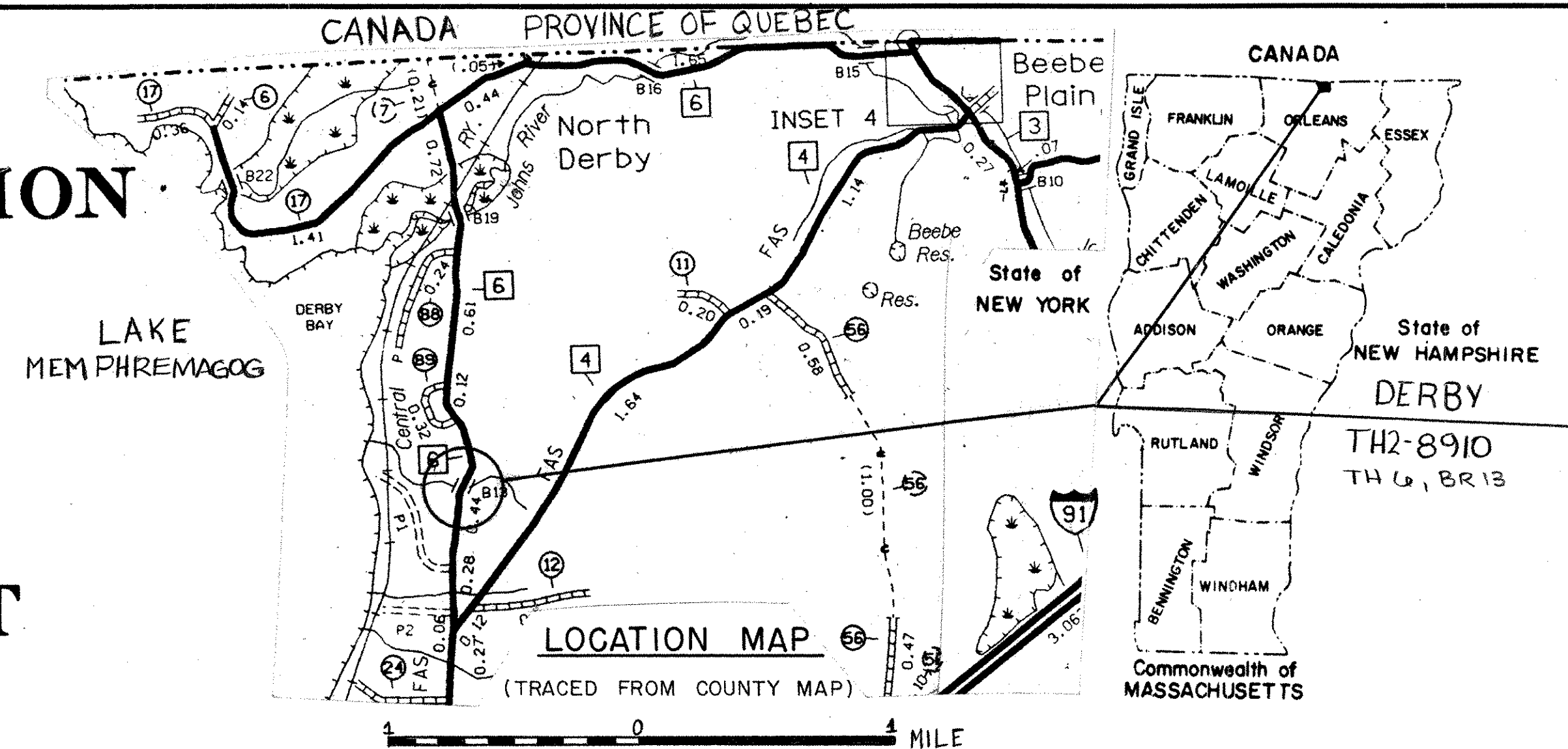
PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF DERBY
COUNTY OF ORLEANS

ROUTE NO: TH 6, CLASS 2 BRIDGE NO: BR13

PROJECT LOCATION: BEGINNING AT A POINT ON TH 6, 0.60 MILES
NORTH OF THE INTERSECTION WITH TH 4 AND EXTENDING NORTHERLY FOR
0.152 MILES.
PROJECT DESCRIPTION: REPLACE EXISTING PIPE WITH NEW 84"Ø x 82'-0"
CAAPP, RECONSTRUCT ROADWAY APPROACHES AND CHANNEL.

LENGTH OF PARTICIPATION ROADWAY: 200.00 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: 600.00 FEET
LENGTH OF PROJECT: 800.00 FEET



GENERAL NOTES

1. ONE-WAY TRAFFIC SHALL BE MAINTAINED FOR DURATION OF PROJECT.
For ADDITIONAL GENERAL NOTES SEE SHEET 11 OF 29.

RECORD PLANS

CONTRACTOR: PROJECT COMPLETED BY TOWN 2024
RESIDENT ENGINEER:
CONSTRUCTION BEGAN:
CONSTRUCTION COMPLETE:
RECORD PLANS BY:
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY
THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.
BY _____ RESIDENT ENGINEER
DATE _____

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

TRAFFIC DATA

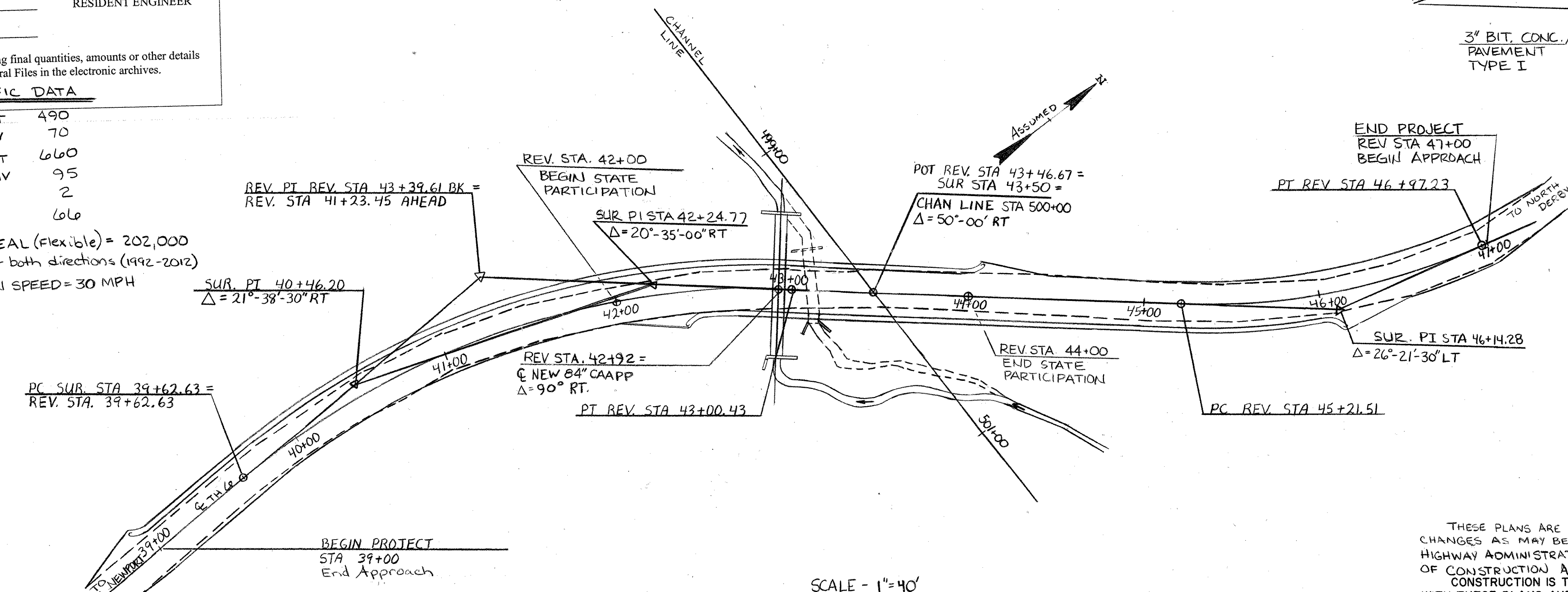
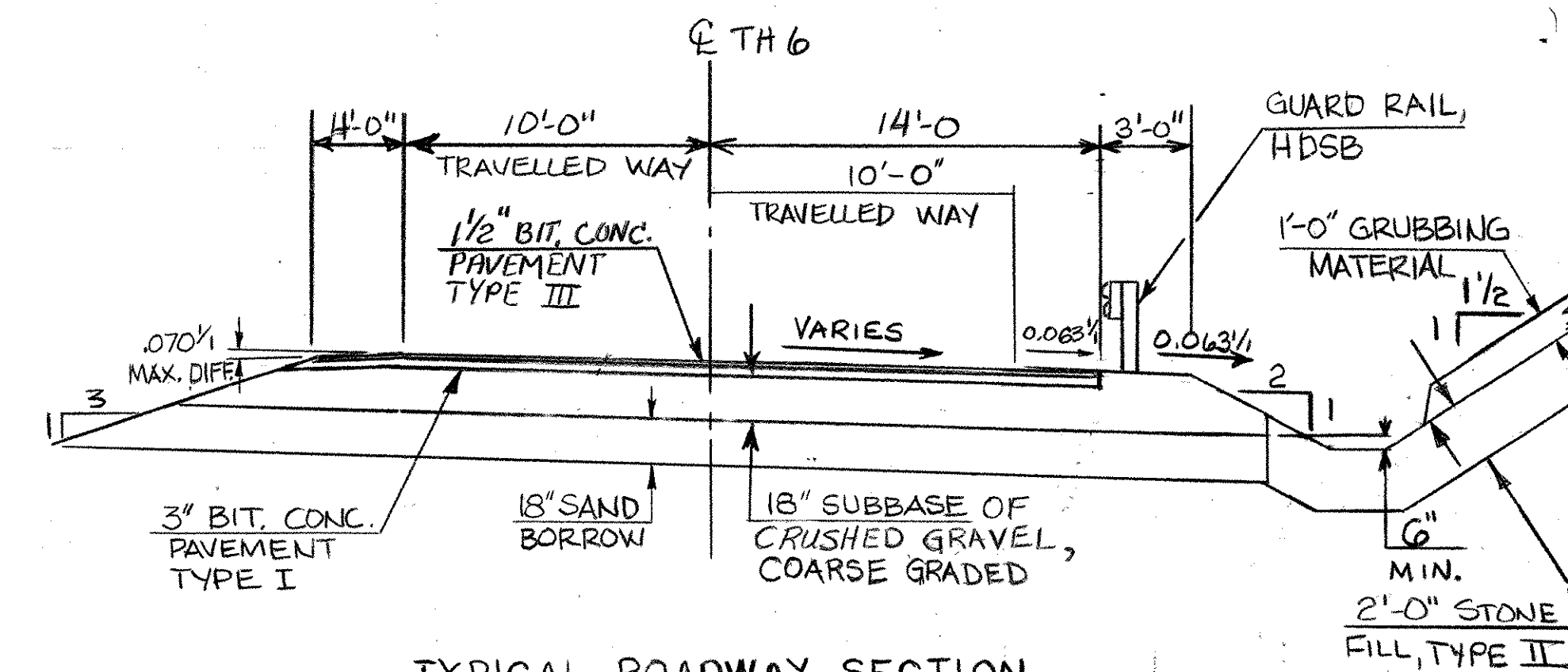
1992 ADT	490
1992 DHV	70
2012 ADT	660
2012 DHV	95
%T	2
%D	66

18 KIP EAL (Flexible) = 202,000
total for both directions (1992-2012)
DESIGN SPEED = 30 MPH

CONVENTIONAL SIGNS

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

DATUM	
VERTICAL	ASSUMED
HORIZONTAL	NA



SCALE - 1" = 40'

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL
HIGHWAY ADMINISTRATION OR THE DIRECTOR
OF CONSTRUCTION AND MAINTENANCE.
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 APRIL 15, 1990
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSE-
QUENT REVISIONS AND SUCH REVISED SPECIFICATIONS
AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED: <i>[Signature]</i>	DATE: 4-24-96
DIRECTOR OF ENGINEERING	
PROJECT DERBY	PROJECT NO. TH2-8910
SHEET 1 OF 29 SHEETS	

REMOVING AND RESETTling FENCE
REV. 38+92 RT. ~ REV. 39+82 RT.
REV. 42+45 RT. ~ REV. 44+48 RT.
REV. 41+86 LT. ~ REV. 44+30 LT.
REV. 46+00 LT. ~ REV. 46+56 LT.

STEEL BEAM GUARD RAIL
REV. 38+88 LT. ~ REV. 44+09 LT.
REV. 41+87 RT. ~ REV. 46+12 RT.

CONSTRUCT FIELD DRIVE (R.O.W. AGREEMENT)
REV. 44+25 LT.

ANCHOR FOR STEEL BEAM RAIL
REV. 41+95 RT.
REV. 46+06 RT.
SURV. 38+95 LT.
REV. 44+03 LT.

CONSTRUCT STONE-LINED DITCH
SURV. 39+00 RT. ~ REV. 42+84 RT.
REV. 44+42 LT. ~ REV. 46+94 LT.

REV. STA. 42+00
BEGIN STATE PARTICIPATION

APPROX. LOCATION OF
AERIAL UTILITIES
(POWER, T.V. & TEL.)

REV. PI REV. STA 41+39.61 BK =
REV. STA 41+23.45 AHEAD

SURV. PI STA. 42+24.77
 $\Delta = 20^\circ - 35' - 00''$ RT.

REV. STA. 44+00
END STATE PARTICIPATION

NEW 18" x 48' CULVERT
INLET @ REV. 44+42, 26' LT.
OUTLET @ REV. 43+95, 39' LT.
(SEE PIPE OPTIONS ON
BRIDGE QUANTITY SHEET.)

APPROXIMATE LOCATION
OF TELEPHONE
PEDESTAL

SUR. PI 40+46.20
 $\Delta = 21^\circ - 38' - 30''$ RT.

REV. STA. 42+92
NEW 84" CAAPP
RADIAL TO CURVE
FB = 761.46

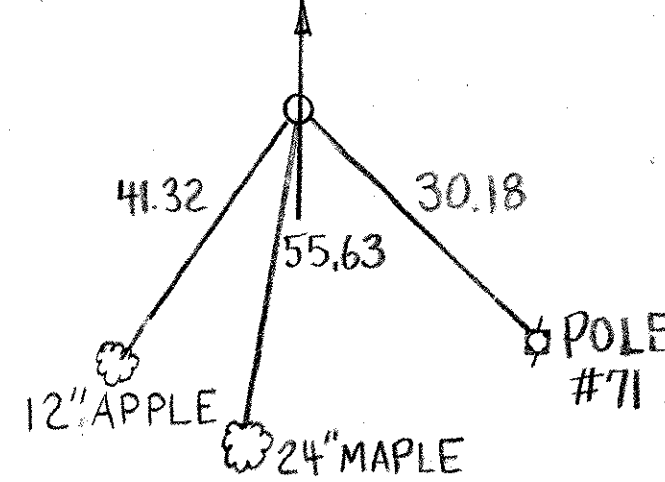
CURVE #1 DATA
 $\Delta = 42^\circ - 13' - 30''$
D = 12' - 30' - 00"
R = 458.37'
T = 176.98'
L = 337.80'
E = 32.93'
BANK = 0.055 FT/FT

APPROX. LOCATION
OF AERIAL UTILITIES
(POWER, T.V. & TEL.)

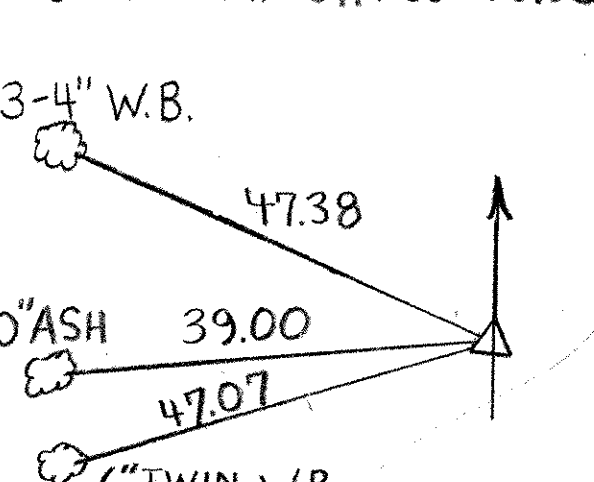
SCALE
0 10 20 30 40

* ASSUMED EXISTING 3 ROD R.O.W.

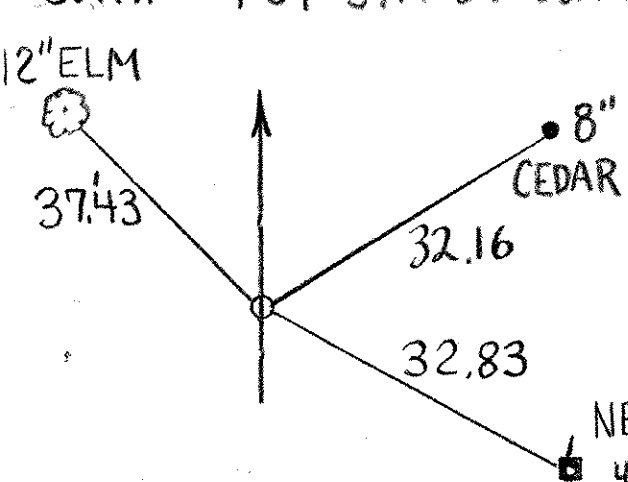
SURV. POT STA 34+48.77



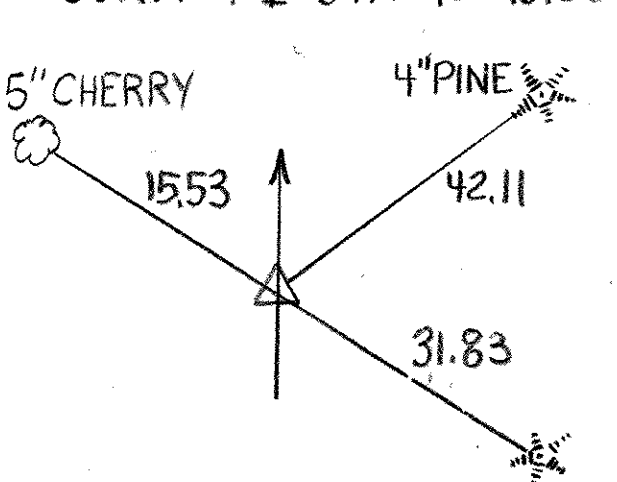
SURV. PI STA 36+78.02



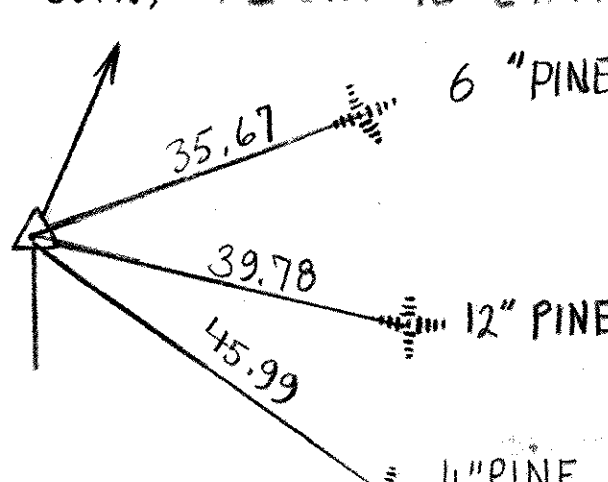
SURV. POT STA 37+98.64



SURV. PI STA 40+46.20



SURV. PI STA 42+24.77



PROJECT BENCHMARK LOCATION

STATION	OFFSET	ELEVATION**	DESCRIPTION
34+21	13' RT.	800.00	POLE # 71
44+00	0'	757.31	Q NAIL
51+75	15' RT.	812.94	POLE # 47/76

** ASSUMED

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of **DERBY** Bridge No. **B13**
Highway No. **TH 6** Log Sta.
Surv. Sta.

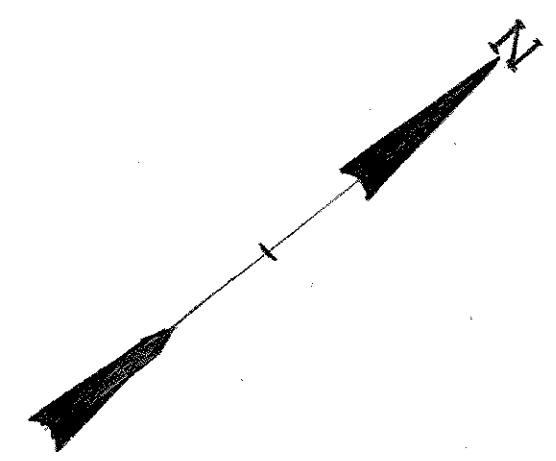
TH6, B13 OVER UNNAMED BROOK

PLAN VIEW

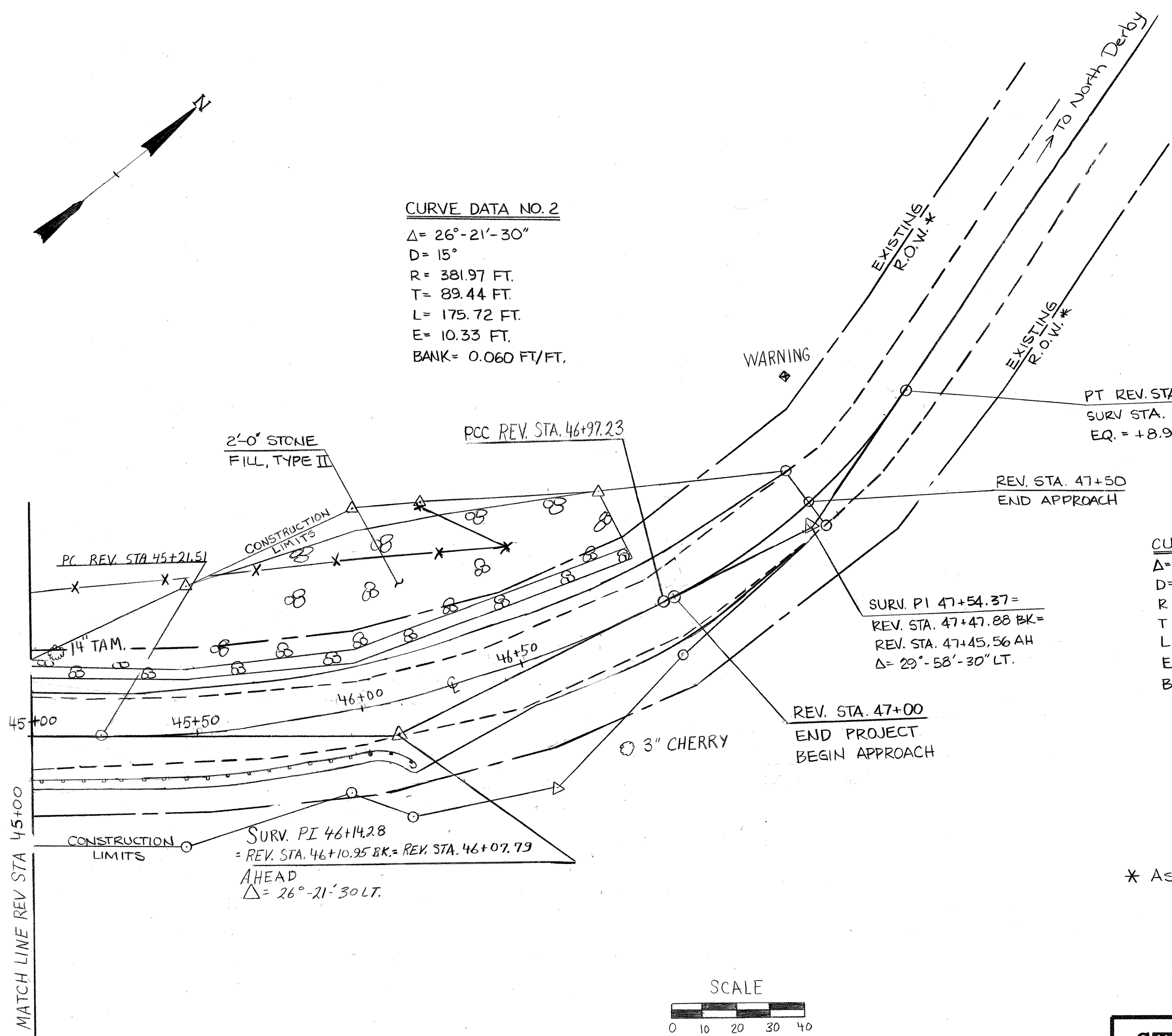
Designed By **B. DONALD** Drawn By **S. FUGERE**
Checked By **M. EVANS-MONGEON** Date **10/92** Bridge Design Supervisor
Date **10/92**

PROJECT **DERBY** PROJECT NO.
TH 2 8910

Log. C. Info. Sheet 2 of 29
Bridge Sheet No.

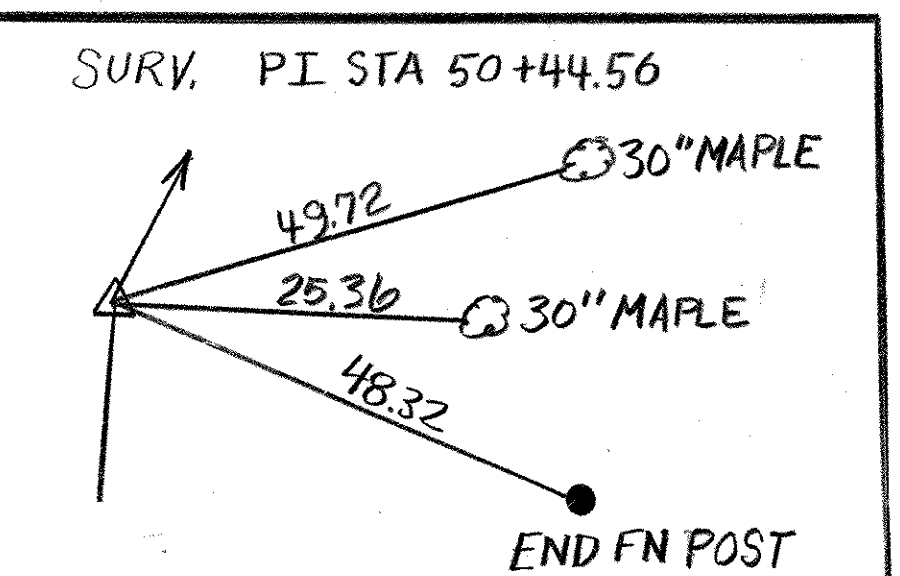
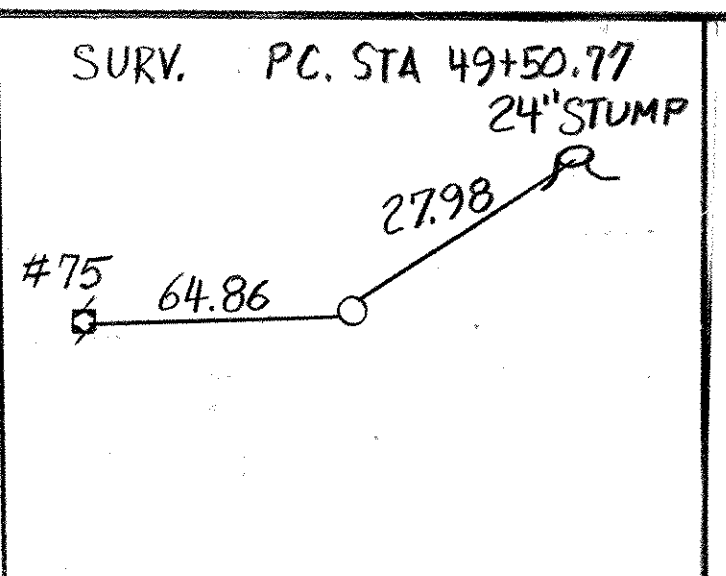
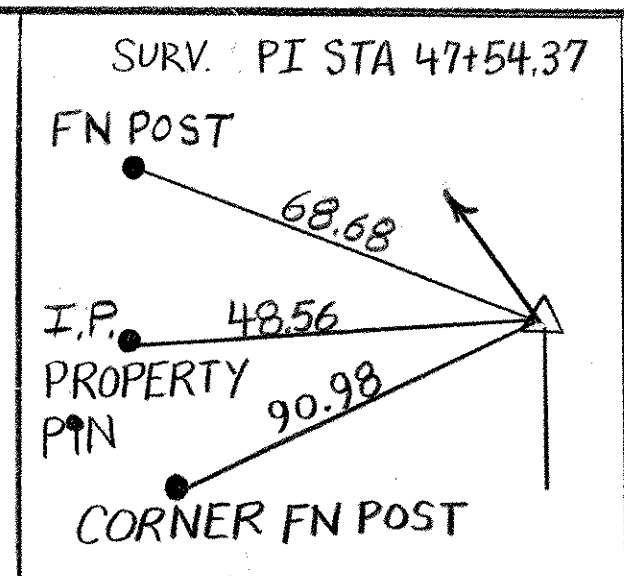
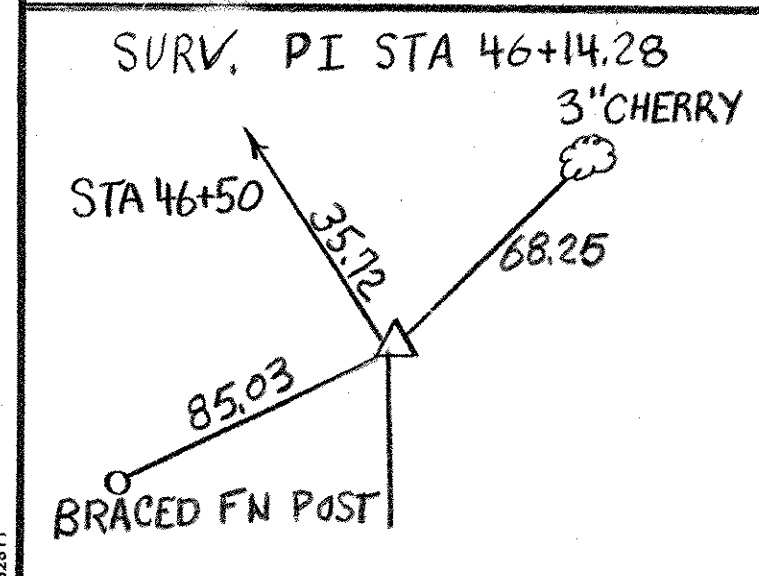
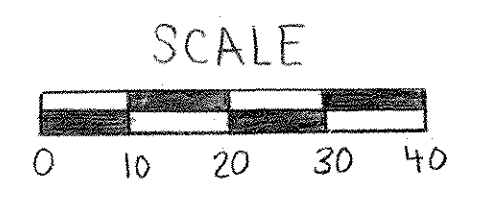


CURVE DATA NO. 2
 $\Delta = 26^\circ - 21' - 30''$
 $D = 15^\circ$
 $R = 381.97 \text{ FT.}$
 $T = 89.44 \text{ FT.}$
 $L = 175.72 \text{ FT.}$
 $E = 10.33 \text{ FT.}$
 $\text{BANK} = 0.060 \text{ FT/FT.}$

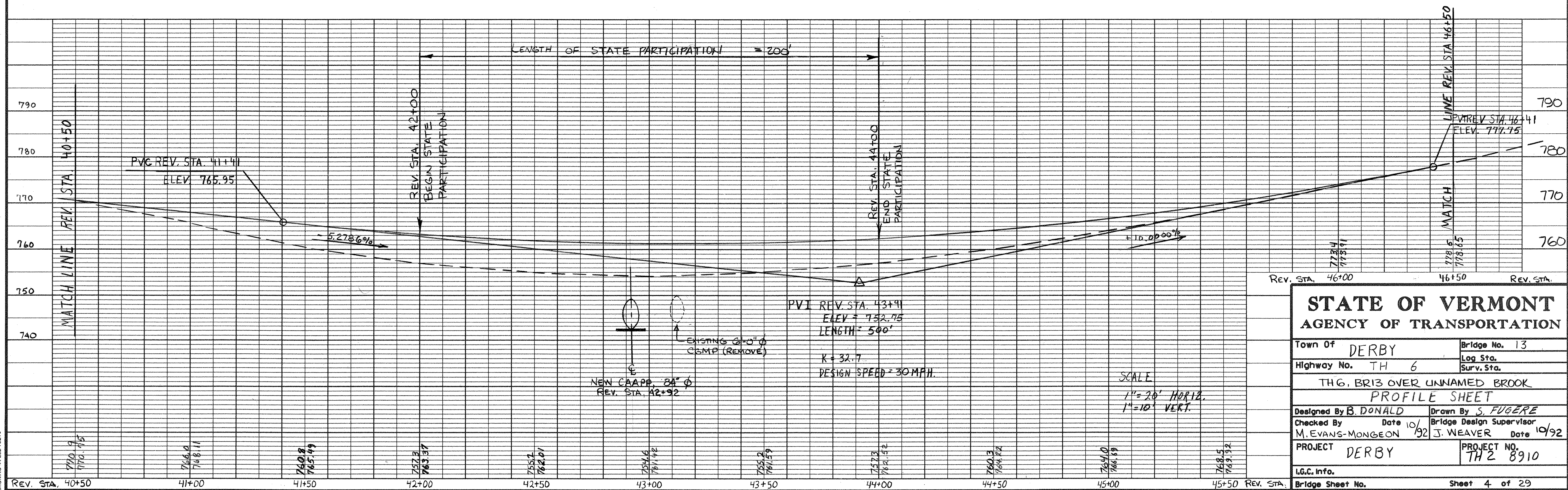


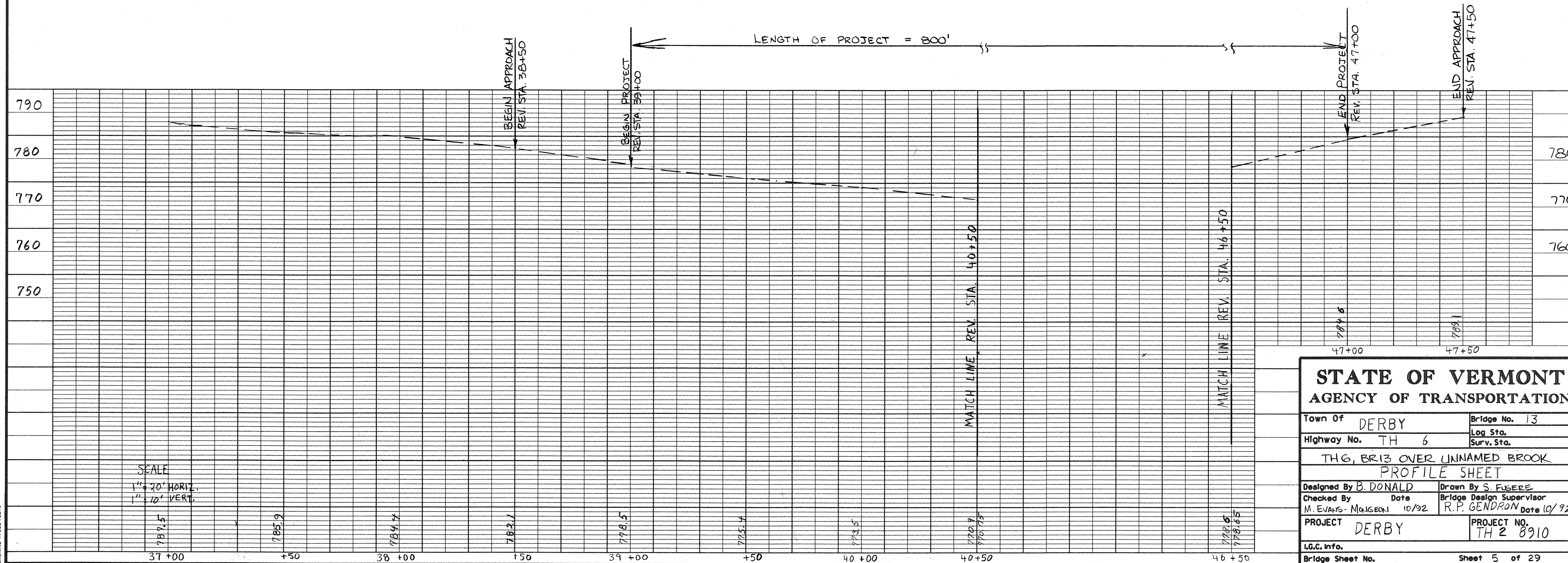
CURVE DATA NO. 3
 $\Delta = 29^\circ - 58' - 30''$
 $D = 30^\circ - 17' - 05''$
 $R = 189.19'$
 $T = 50.65'$
 $L = 98.98'$
 $E = 6.66'$
 $\text{BANK} = 0.060 \text{ FT/FT}$

* ASSUMED EXISTING 3 ROD R.O.W.



STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of DERBY		Bridge No. B13	
Highway No. TH6		Log Sta.	
		Surv. Sta.	
TH6, B13 OVER UNNAMED BROOK PLAN VIEW			
Designed By B. DONALD		Drawn By S. FUGERE	
Checked By Date		Bridge Design Supervisor	
M. EVANS-MONGEON 10/92		J. WEAVER Date 10/92	
PROJECT DERBY		PROJECT NO. TH 2 8910	
L.C.C. Info.			
Bridge Sheet No.		Sheet 3 of 29	





STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
Town Of DERBY	Bridge No. 13
Highway No. TH 6	Log Sta. Surv. Sta.
TH6, BR13 OVER UNNAMED BROOK	
PROFILE SHEET	
Designed By B. DONALD	Drawn By S. FUGERE
Checked By M. EVANS - MANGEON	Bridge Design Supervisor R.P. GENDRON
Date 10/92	Date 10/92
PROJECT DERBY	PROJECT NO. TH 2 8910
LG.C. info.	
Bridge Sheet No.	Sheet 5 of 29

[illegible]

BRIDGE QUANTITY SHEET										STATE OF VERMONT AGENCY OF TRANSPORTATION STRUCTURES DIVISION						
QUANTITY BREAKDOWN																
ITEM NO.	ITEM	UNIT	ROADWAY	STATE PIPE	PARTICIPATION CHANNEL	EROSION CONTROL			STATE ROADWAY	NON-PARTICIPATION CHANNEL	PARTICIPATION EROSION CONTROL				TOTAL	FINAL
201.10	CLEARING AND GRUBBING (0.23 ACRES)	LS	1												1	
201.10	CLEARING AND GRUBBING (0.43 ACRES)	LS							1						1	
203.15	COMMON EXCAVATION	CY							4150						4150	
203.16	SOLID ROCK EXCAVATION	CY							10						10	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY			440					50					490	
203.30	EARTH BORROW	CY	100						70						170	
203.31	SAND BORROW	CY	490						1340						1830	
203.32	GRANULAR BORROW	CY		910											910	
203.40	FINE GRADING - SUBGRADE	SY	920						2960						3880	
204.20	TRENCH EXCAVATION OF EARTH	CY	100			20			40						160	
204.25	STRUCTURE EXCAVATION	CY		490											490	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		80											80	
301.25	SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)	CY	390			80			1160						1630	
404.65	EMULSIFIED ASPHALT	CWT	1						3						4	
406.25	BITUMINOUS CONCRETE PAVEMENT	TON	158						473						631	
501.25	CONCRETE, CLASS B	CY		58											58	
507.15	REINFORCING STEEL	LB		6970											6970	
511.25	CORRUGATED ALUMINUM ALLOY PLATE PIPE (84" DIA. X 82' X 5027*)	EA		1											1	
514.10	WATER REPELLENT	GAL		2											2	
528.10	ONE-WAY TEMPORARY BRIDGE	LS	1												1	
529.15	REMOVAL OF STRUCTURE	EA	1												1	
	* BEGIN PIPE OPTIONS *															
601.0215	18" CAAP .060 (2 - 2/3 X 1/2)	LF							62						62	
601.0415	18" PCCSP .064 (2 - 2/3 X 1/2)	LF							62						62	
601.0915	18" CPEP	LF							62						62	
601.0015	18" CSP .064 (2 - 2/3 X 1/2)	LF							48						48	
601.0915	18" CPEP	LF							48						48	
	* END PIPE OPTIONS *															
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (N. A. B. I.)	HR				1									1	
609.10	DUST CONTROL WITH WATER	MGAL	50												50	
609.15	DUST & ICE CONTROL W/ CALC. CHLORIDE	TON	.50												.50	
613.10	STONE FILL, TYPE I	CY				10									10	
613.11	STONE FILL, TYPE II	CY	90		210				900	40					1240	
613.15	RIPRAP, HEAVY TYPE	CY			50					20					70	
614.10	TEMPORARY RELOCATION OF STREAM	LS			1										1	
620.50	REMOVING AND RESETTNG FENCE	LF	398						292						690	
621.20	STEEL BEAM GUARD RAIL	LF	400						558						958	
621.60	ANCHOR FOR STEEL BEAM GUARD RAIL</															

EARTHWORK

%
GDE

VERT
CUR

STATION

ELEVATION

ON TAN.

ON V.C.

CORR.
V.C.

DIST.

AREA

CU.YDS.

AREA

CU.YDS.

AREA

CU.YDS.

AREA

CU.YDS.

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

ITEM
NO.

ITEM

UNIT

ROADWAY

STATE PART
PIPE

ICIPATION
CHANNEL

EROSION
CONTROL

STATE NON-PARTIC
ROADWAY CHANNEL

EROSION
CONTROL

TOTAL

FINAL

631.17

TESTING EQUIPMENT - BITUMINOUS

LS

1

1

631.25

FIELD OFFICE - TELEPHONE (N.A.B.I.)

LS

1

1

635.10

MOBILIZATION

LS

1

1

646.21

4" YELLOW LINE

LF

400

1400

1800

649.31

GEOTEXTILE UNDER STONE FILL

SY

460

1420

1880

649.51

GEOTEXTILE FOR SILT FENCE

SY

70

70

651.15

SEED

LB

20

30

651.17

SEED - WINTER RYE

LB

10

10

651.18

FERTILIZER

LB

120

220

651.20

AGRICULTURAL LIMESTONE

TON

.50

1.5

651.25

HAY MULCH

TON

.50

1.5

651.26

HAY BALES FOR EROSION CONTROL

EA

10

10

651.35

TOPSOIL

CY

70

140

651.40

GRUBBING MATERIAL

SY

220

950

654.10

EROSION MATTING

SY

30

30

BRIDGE AT STATION
LOCATION

REV. STA. 42+92
T.H. 6 OVER UNNAMED BROOK

PREPARED BY:
G. ROY

CHECKED BY:
S. FUGERE

SUPERVISOR: J.H. WEAVER

PROJECT: DERBY

BR OF

PROJECT NO: TH2 - 8910

SHEET NO: 7 OF 29

/str3/88j111/sj111qty.dgn

sj111q2.i

11-APR-1996

REMOVING AND RESETTNG FENCE
 REV. 38+92 RT. ~ REV. 39+82 RT.
 REV. 42+45 RT. ~ REV. 44+48 RT.
 REV. 41+86 LT. ~ REV. 44+18 LT.
 REV. 46+00 LT. ~ REV. 46+56 LT.

STEEL BEAM GUARD RAIL
 REV. 38+88 LT. ~ REV. 44+09 LT.
 REV. 41+87 RT. ~ REV. 46+12 RT.

ROBERTS REAL ESTATE
 BK. 142; Pg. 254-255
 SEE SPECIAL PROVISIONS FOR
 R.O.W. AGREEMENT.

LUCAS, LEONA

REFER TO RELEASE FORM
 DATED 9 JULY, 1994 AND SPECIAL
 PROVISIONS FOR R.O.W. AGREEMENTS

REV. PI REV. STA 41+39.61 BK =
 REV. STA 41+23.45 AHEAD

REV. STA. 42+00
 BEGIN BRIDGE PARTICIPATION

SURV. PI STA. 42+24.77
 $\Delta = 20^\circ - 35' - 00''$ RT.

CHANNEL LINE STA. 498+75

REV. STA. 44+00

END BRIDGE PARTICIPATION

REV. 43+08
 50' LT
 2'-0" STONE
 FILL, TYPE II
 REV. 43+08
 25' LT
 PT. REV.
 STA. 43+00.43

POT REV. STA. 43+46.67 =
 SUR. STA. 43+50 =
 CHAN. LINE STA. 500+00
 $\Delta = 50^\circ$ RT.

WARNING
 (REMOVE)

2'-0" STONE
 FILL, TYPE II

APPROXIMATE RELOCATION
 OF UNDERGROUND
 TELEPHONE LINE

EXISTING
 R.O.W.

TO N. DERBY 45+00

EXISTING
 R.O.W.

CONSTRUCTION
 LIMITS

MATCH LINE REV STA 45+00

CHANNEL LINE STA. 501+50

PC SURV. STA. 39+62.63
 = REV. STA. 39+62.63
 BEGIN PROJECT
 STA. 39+00
 END APPROACH

SUR. PI 40+46.20
 $\Delta = 21^\circ - 38' - 30''$ RT.

2'x5' STONE FILL
 TYPE II ENERGY
 DISSIPATER

CEDAR
 BRUSH

WOODS

REV. STA. 42+92
 NEW 84" CAAPP
 $\Delta = 90^\circ$ RT
 EG. = 761.46

REV. 42+78
 26' RT

REV. 42+76
 50' RT

REV. 43+11
 25' RT

REV. 43+11
 50' RT

2'-0" STONE
 FILL, TYPE II

HEAVY RIP-RAP

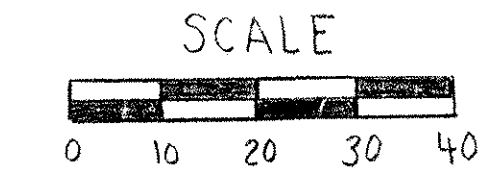
CURVE #1 DATA
 $\Delta = 42^\circ - 13' - 30''$
 $D = 12^\circ - 30' - 00''$
 $R = 458.37'$
 $T = 176.98'$
 $L = 337.80'$
 $E = 32.93'$
 BANK = 0.055 FT/FT

BOLLES, RUSSELL
 BK. 142; Pg. 81-82

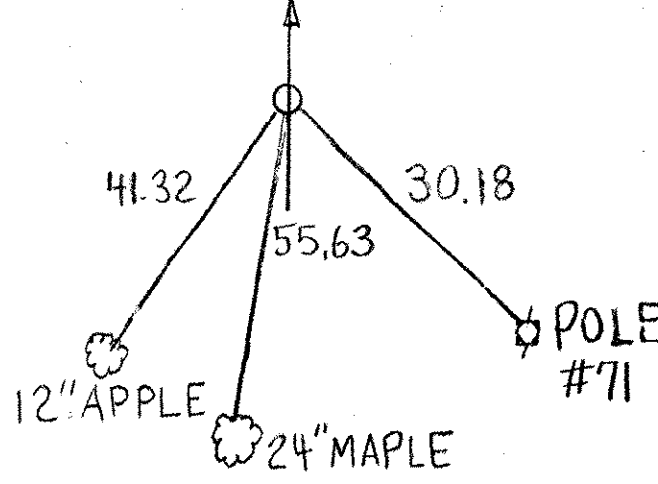
EXISTING 12" CGMP x 38' @ 90°
 REPLACE W/ NEW 18" CSP x 62'

THIS SHEET FOR
 R.O.W. PURPOSES ONLY

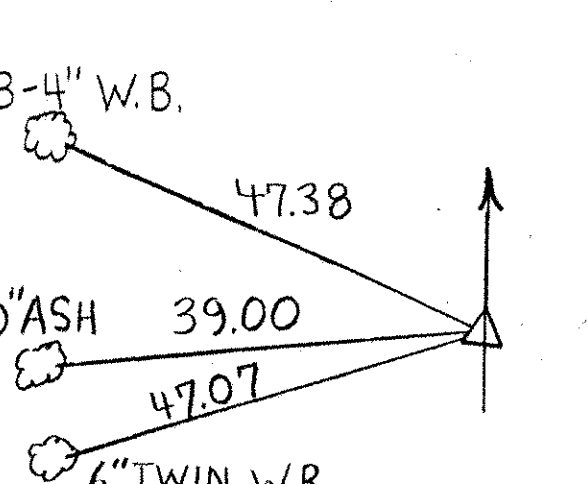
* ASSUMED EXISTING 3 ROD R.O.W.



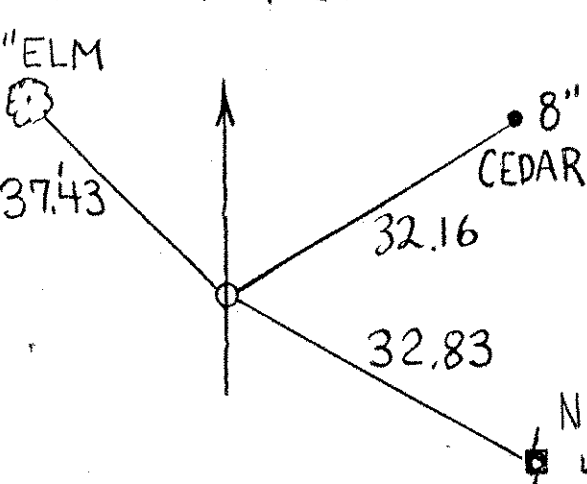
SURV. POT STA 34+48.11



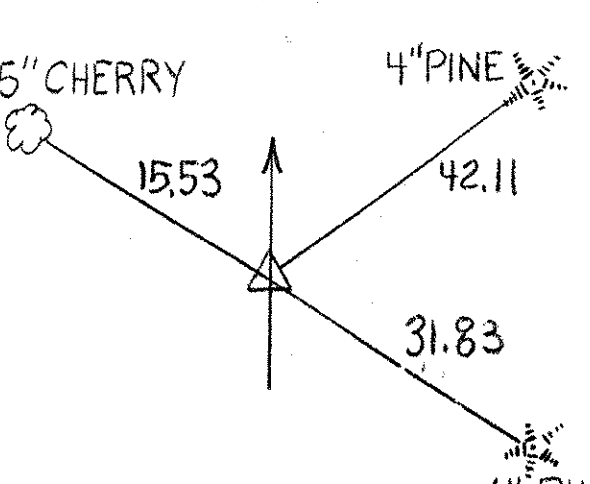
SURV. PI STA 36+78.02



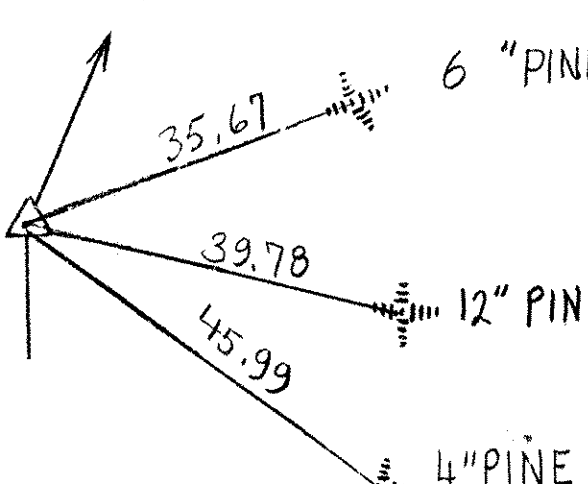
SURV. POT STA 37+98.64



SURV. PI STA 40+46.20



SURV. PI STA 42+24.77



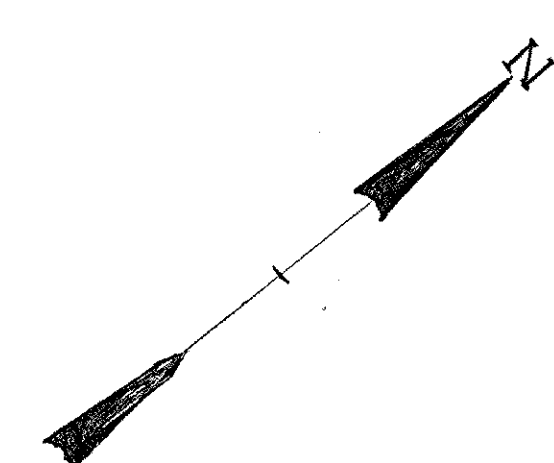
PROJECT BENCHMARK LOCATION

STATION	OFFSET	ELEVATION**	DESCRIPTION
34+21	13' RT.	800.00	POLE # 71
44+00	0'	757.31	NAIL
51+75	15' RT.	812.94	POLE # 47/76

** ASSUMED

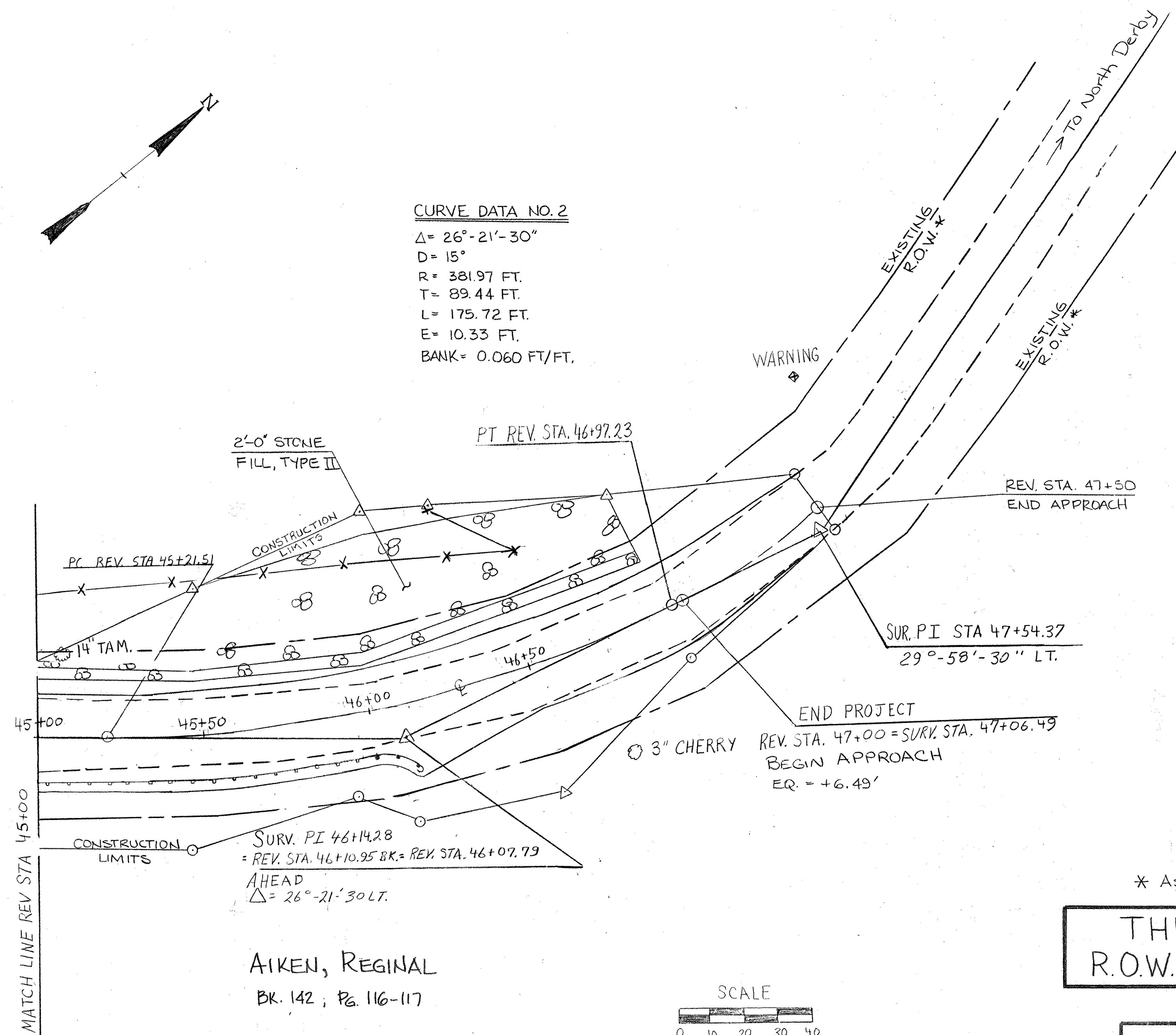
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	DERBY	Bridge No.	B13
Highway No.	TH 6	Log Sta.	
		Surv. Sta.	
TH6, B13 OVER UNNAMED BROOK			
PLAN VIEW			
Designed By	B. DONALD	Drawn By	S. FUGERE
Checked By	Date	Bridge Design Supervisor	Date
M. EVANS-MONGEON	10/92	J. WEAVER	10/92
PROJECT	DERBY	PROJECT NO.	TH2 8910
I.G.C. Info.		Sheet 8 of 29	
Bridge Sheet No.			



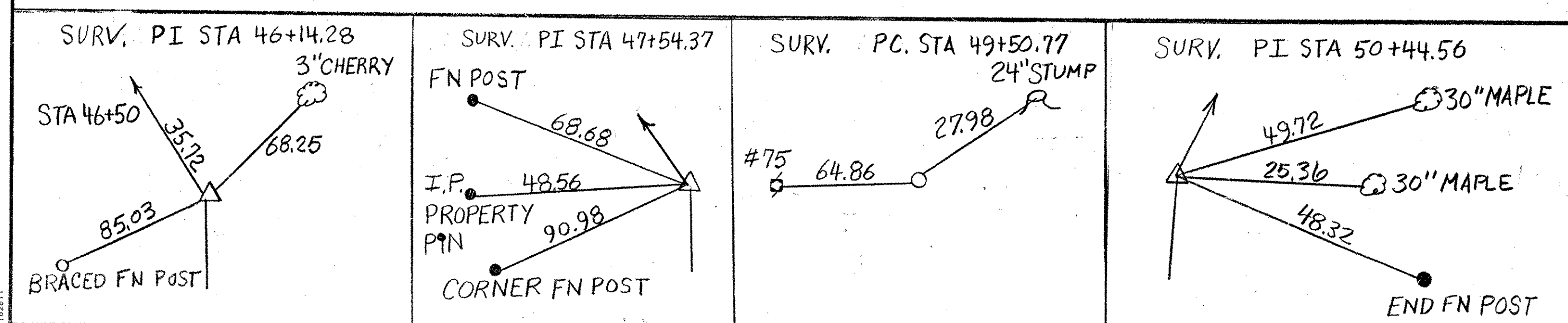
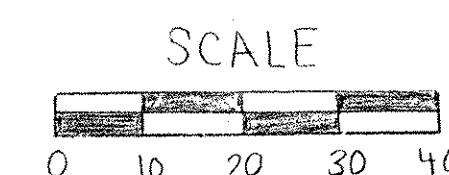
CURVE DATA NO. 2

$\Delta = 26^\circ - 21' - 30''$
 $D = 15^\circ$
 $R = 381.97 \text{ FT.}$
 $T = 89.44 \text{ FT.}$
 $L = 175.72 \text{ FT.}$
 $E = 10.33 \text{ FT.}$
 $\text{BANK} = 0.060 \text{ FT./FT.}$



* ASSUMED EXISTING 3 ROD R.O.W.

THIS SHEET FOR
R.O.W. PURPOSES ONLY



STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of DERBY		Bridge No. B13	
Highway No. TH6		Log Sta.	
		Surv. Sta.	
TH6, B13 OVER UNNAMED BROOK			
PLAN VIEW			
Designed By B. DONALD		Drawn By S. FUGERE	
Checked By Date		Bridge Design Supervisor Date	
M. EVANS-MONGEON 10/92		J. WEAVER 10/92	
PROJECT DERBY		PROJECT NO. TH 2 8910	
I.G.C. Info.			
Bridge Sheet No.		Sheet 9 of 29	

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990 AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1992 AND ITS LATEST REVISIONS.
2. A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED THRU THE PROJECT DURING CONSTRUCTION.
3. THE COST OF ON-PROJECT SIGNS AND BARRICADES SHALL BE SUBSIDIARY TO OTHER CONTRACT ITEMS. THE CONTRACTOR SHALL ALLOW FREE ACCESS TO DRIVES ON THE PROJECT.
4. ANY IN-STREAM CONSTRUCTION SHALL BE ACCOMPLISHED DURING THE PERIOD JUNE 1 TO OCTOBER 1. ANY DEVIATION FROM THIS TIME PERIOD SHALL BE APPROVED IN WRITING BY THE AGENCY OF NATURAL RESOURCES.
5. A PRE-CONSTRUCTION MEETING WILL BE HELD. AT THAT TIME, THE CONTRACTOR WILL SUBMIT AN EROSION/SEDIMENT CONTROL PLAN WITH A SCHEDULE OF EVENTS. THIS PLAN SHALL BE SITE SPECIFIC.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE INTO THE BROOK, AS DIRECTED BY THE RESIDENT ENGINEER AND STANDARD SPECIFICATIONS SECTION 105.
7. REMOVAL OF THE EXISTING 72" DIA. CGMP AND HEADWALLS SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF STRUCTURE". HEADWALLS SHALL BE REMOVED IN THEIR ENTIRETY.
8. THE COSTS OF MAINTAINING TRAFFIC THRU THE PROJECT DURING THE INSTALLATION OF THE NEW PIPE AND HEADWALLS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 528.10, ONE-WAY TEMPORARY BRIDGE. THE LUMP SUM PRICE BID SHALL BE FULL COMPENSATION FOR PROVIDING, INSTALLING AND REMOVING TEMPORARY EXTENSIONS TO EXISTING PIPE AND CONSTRUCTING AND REMOVING TEMPORARY EMBANKMENTS. THE PIPE EXTENSIONS SHALL BE AT LEAST THE SAME SIZE DIAMETER AS THE EXISTING PIPE AND BE ADEQUATELY ATTACHED TO THE EXISTING PIPE.
9. THE LUMP SUM BID FOR ITEM 614.10, TEMPORARY RELOCATION OF STREAM, SHALL BE FULL COMPENSATION FOR ANY CHANNEL EXCAVATION AND CHANNEL PROTECTION MEASURES NECESSARY FOR RELOCATING THE STREAM DURING THE INSTALLATION OF THE NEW PIPE AND HEADWALLS.
10. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".
11. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES ON THE HEADWALLS.
12. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS INDICATED BY THE RESIDENT ENGINEER.
13. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. ALL UPWARD KEYS SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
14. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 °F.
15. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" ALONG BACK FACES OF WALLS AGAINST EARTH AND 3" ELSEWHERE, UNLESS DIRECTED BY THE RESIDENT ENGINEER.
16. REINFORCING PLACEMENT TOLERANCES SHALL BE:
SPACING: +/- 1"
CLEARANCE: +/- 1/4"
17. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

CAST-IN-PLACE CONCRETE: $f'_c = 3500$ PSI $f_c = 1400$ PSI
REINFORCING STEEL (GRADE 60): $F_t = 24,000$ PSI $F_c = 20,000$ PSI
SOIL UNIT WEIGHT: 140 PCF

SEEDING FORMULA
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 TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

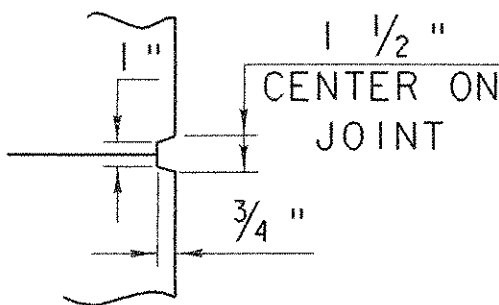
AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

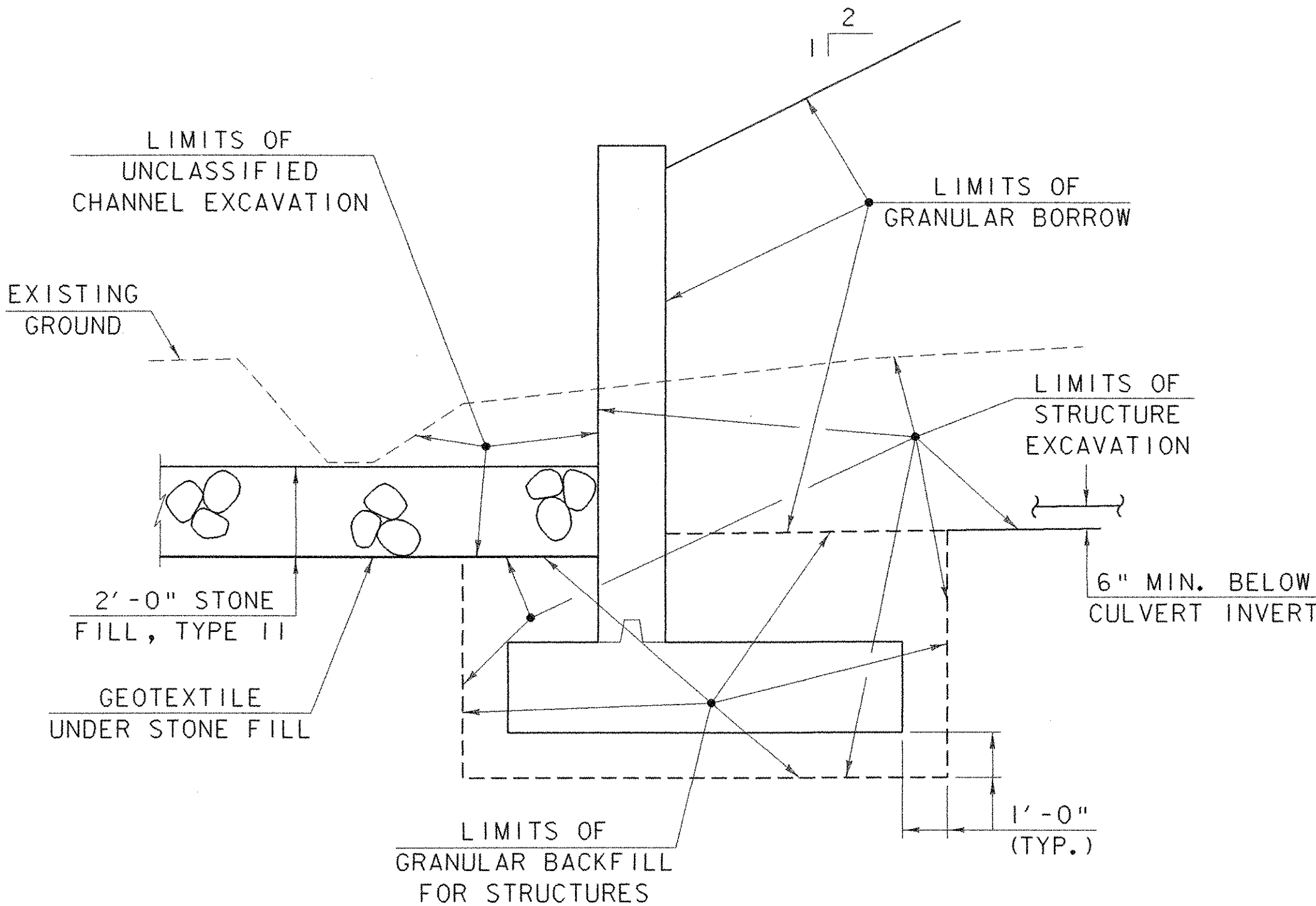
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

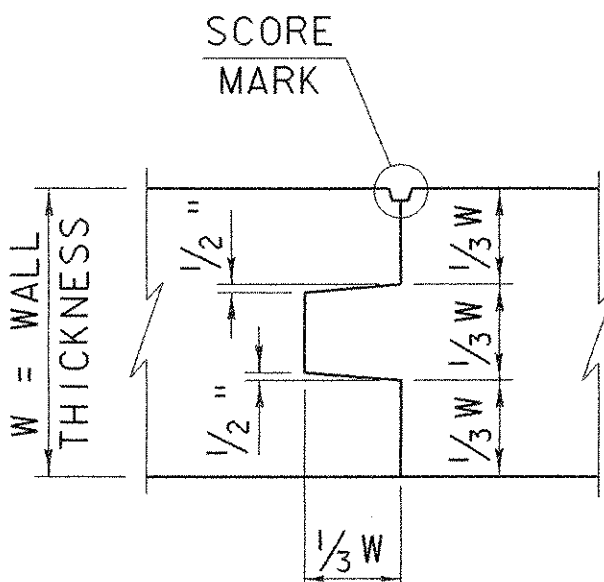
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.



SCORE MARK DETAIL
NTS



TYPICAL EARTHWORK SECTION
NOT TO SCALE



TYPICAL CONCRETE
CONSTRUCTION JOINT
NTS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	DERBY	Bridge No.	13
Highway No.	T.H. 6	Log Sta.	---
		Surv. Sta.	---

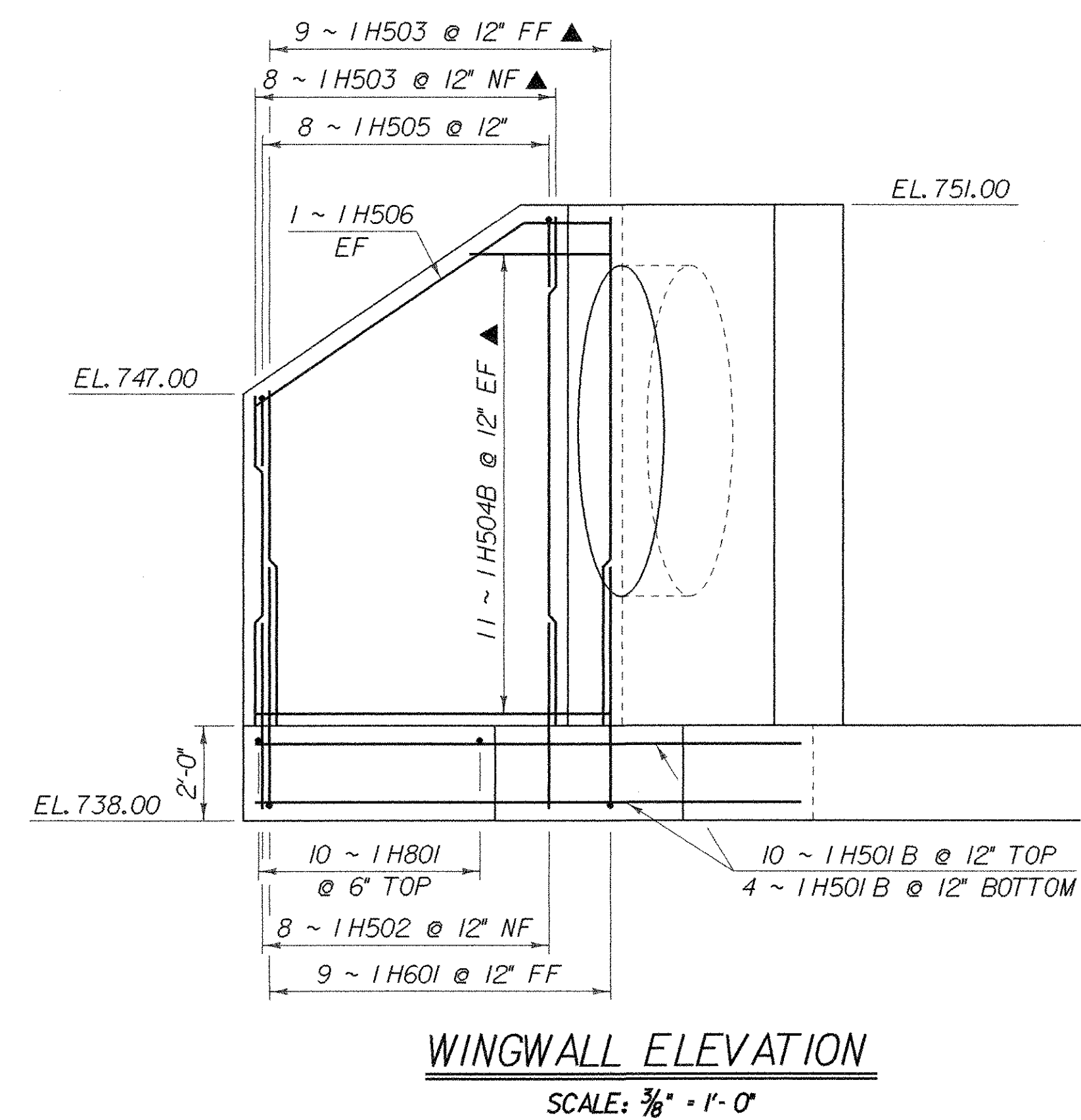
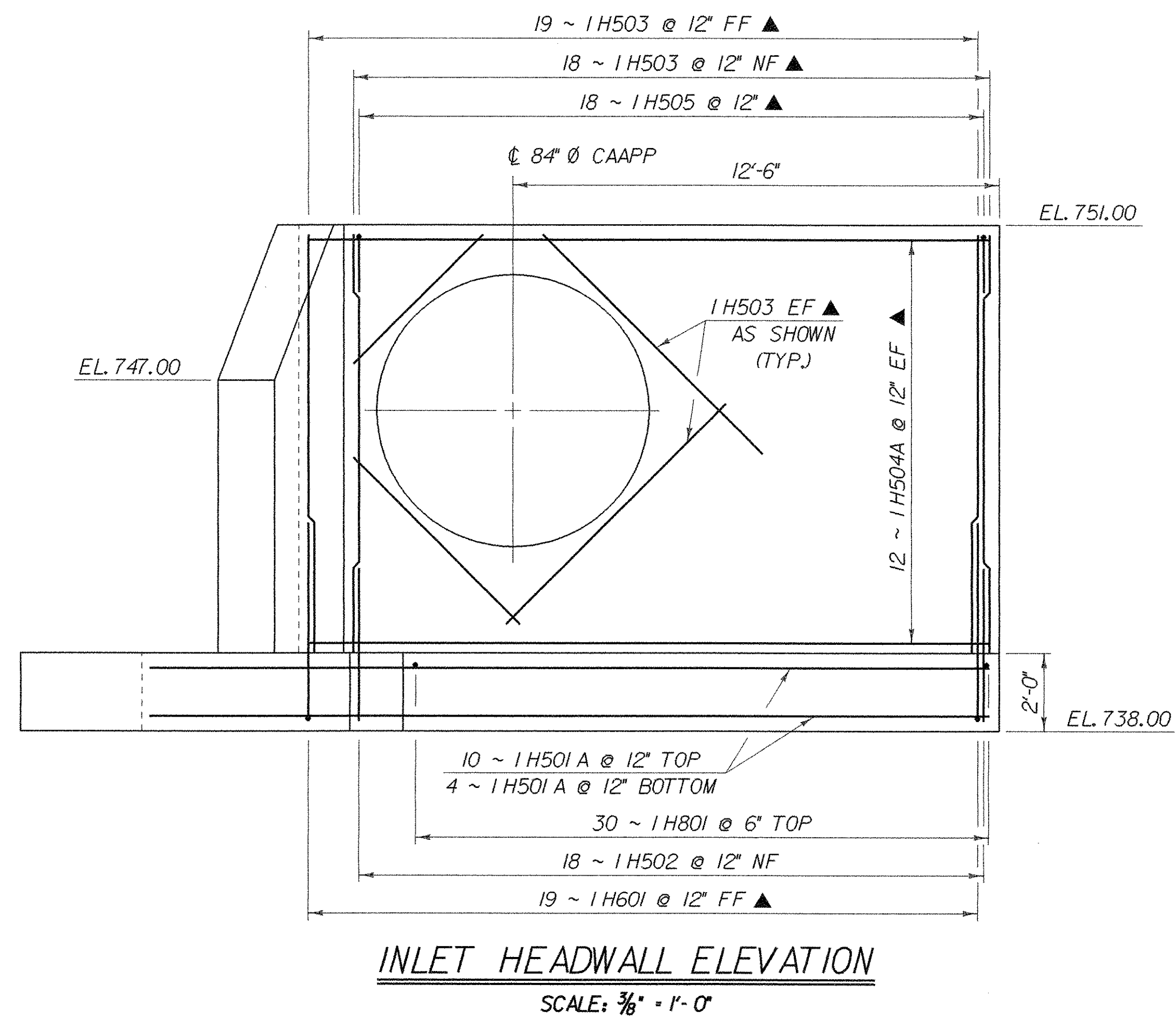
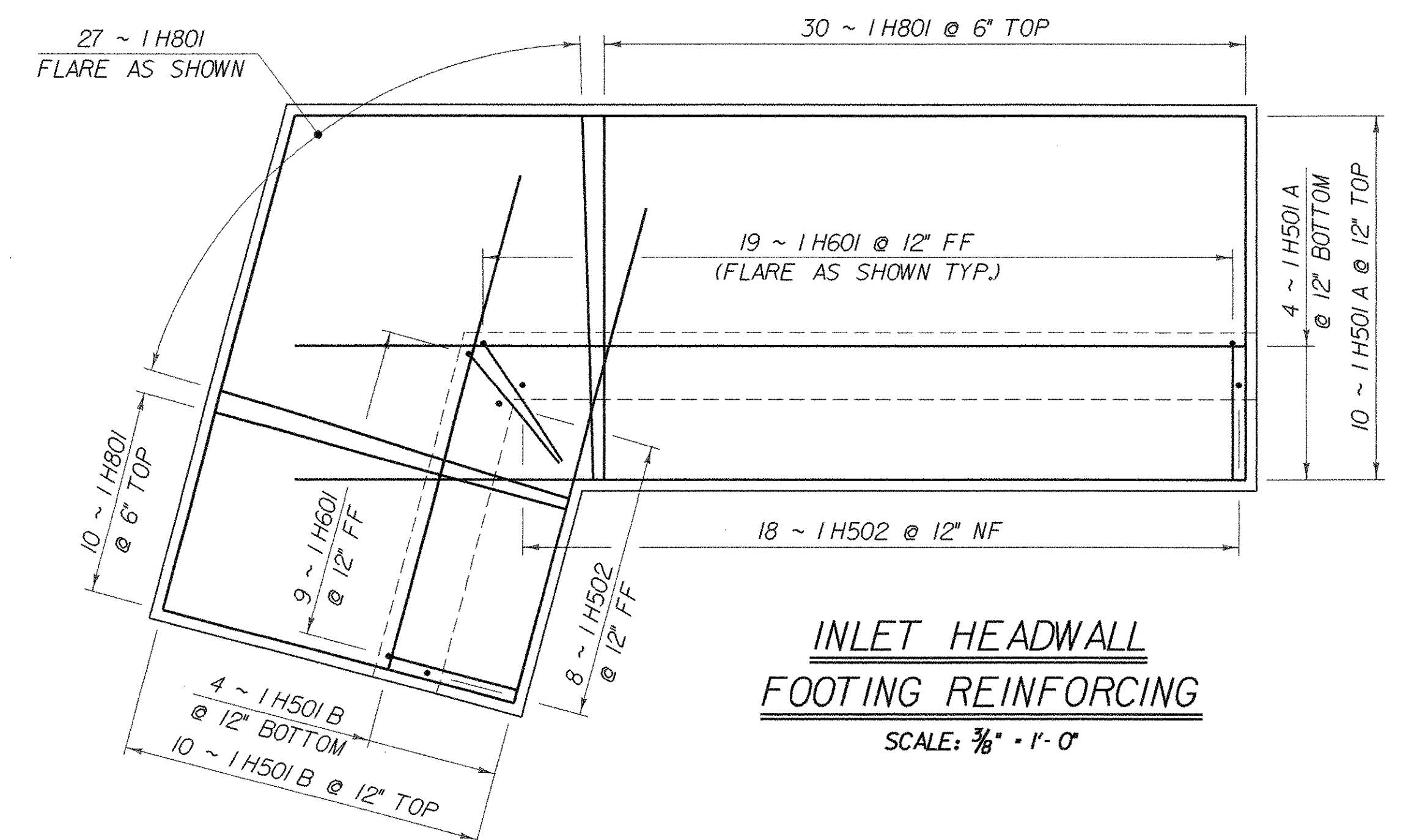
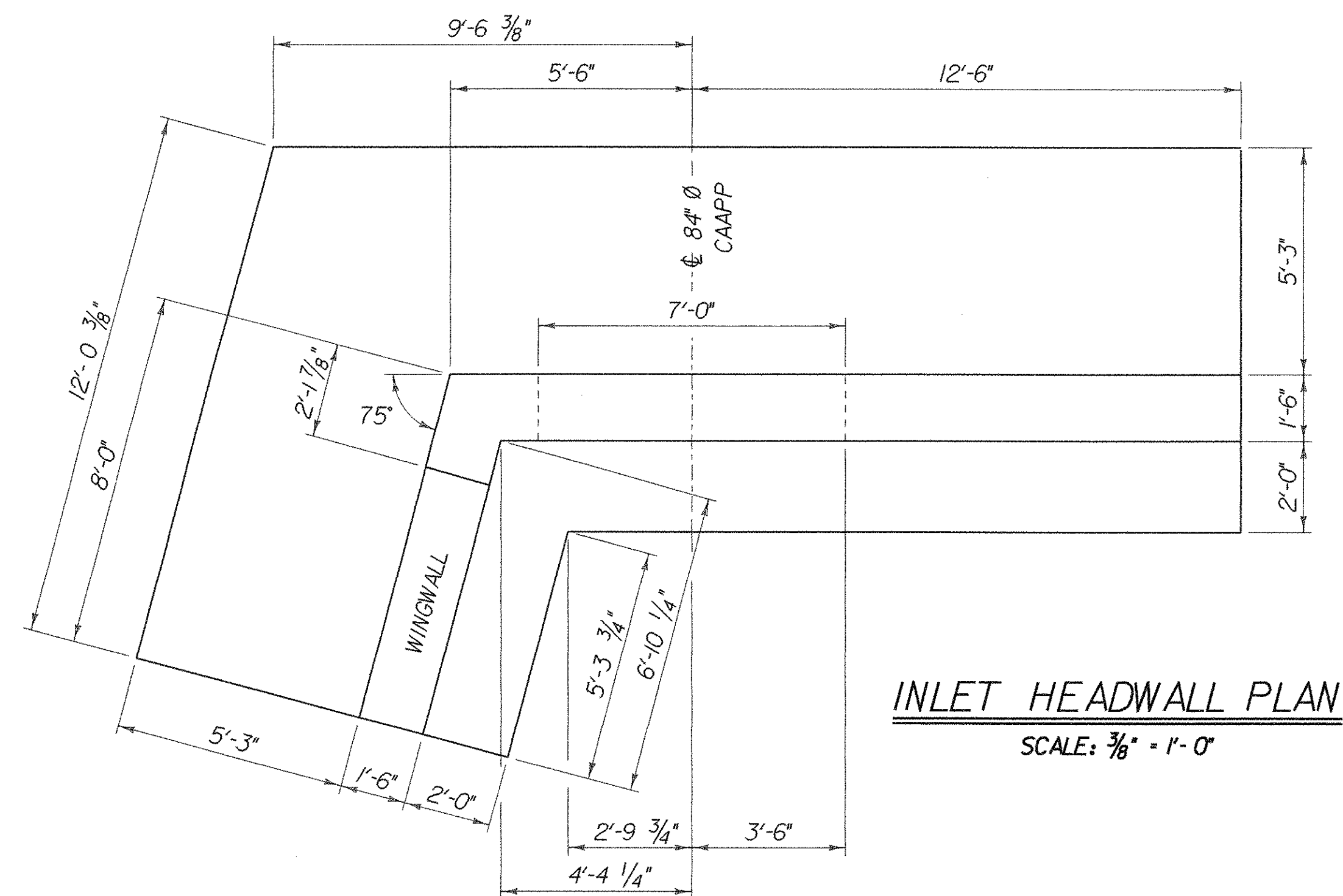
T.H. 6 OVER BROOK

GENERAL NOTES

Designed By	R. WHITCOMB	Drawn By	G. ROY
Checked By	Date	Bridge Design Supervisor	Date
R. WHITCOMB	12/95	J.H. WEAVER	12/95

PROJECT	DERBY	PROJECT NO.	TH 2 - 8910
---------	-------	-------------	-------------

L.G.C. Info.	/str3/88/III/sjlllgn.dgn	sjlllgn.dgn	
Bridge Sheet No.		Sheet	11 of 29



NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	DEBBY	Bridge No.	13
---------	-------	------------	----

DERBY		Log Sta. _____
Highway No.	T.H. 6	Surv. Sta. _____

T. H. 6 OVER BROOK

INLET HEADWALL DETAILS

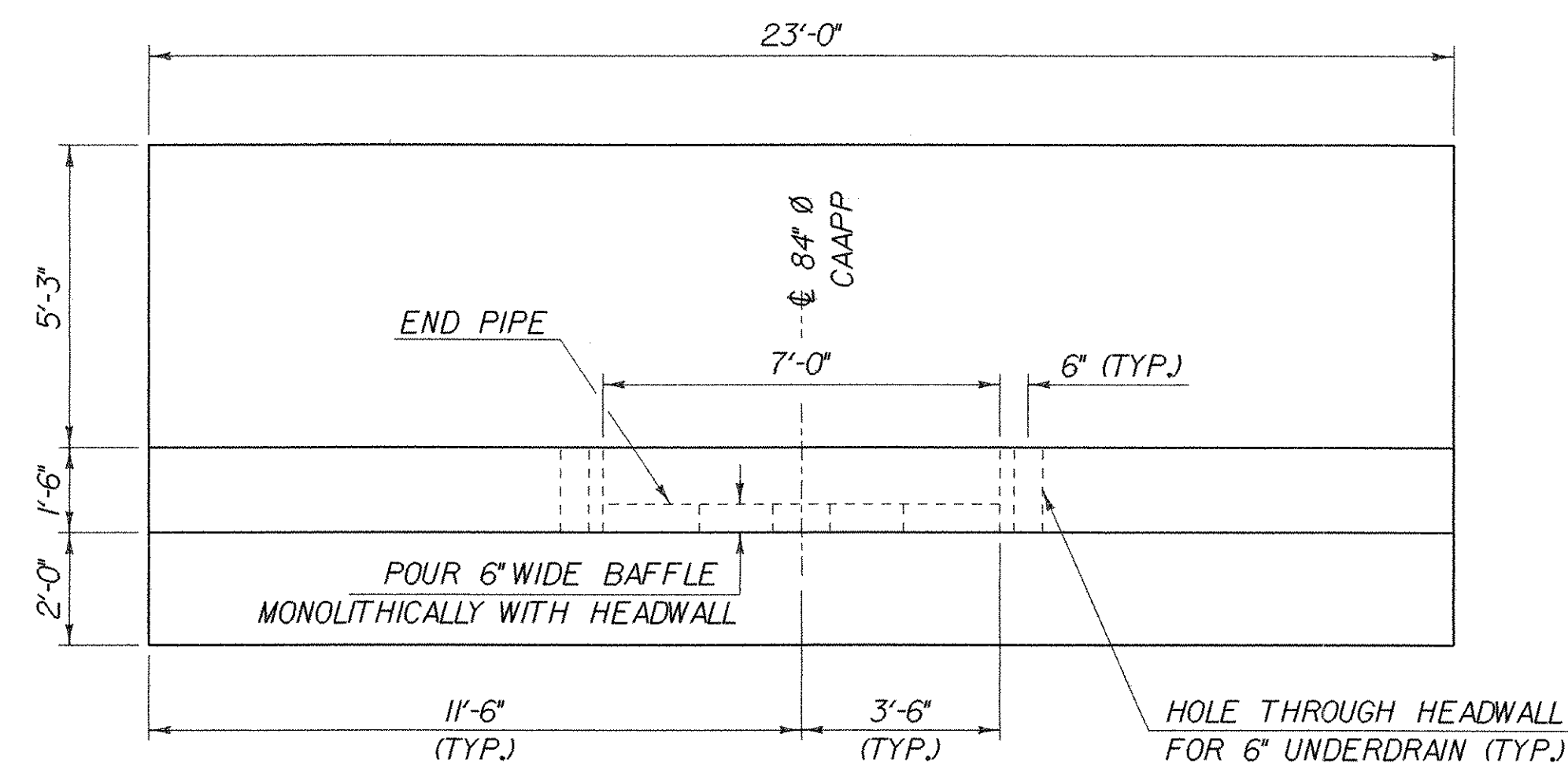
Designed By <i>R. WHITCOMB</i>	Drawn By <i>G. ROY</i>
--------------------------------	------------------------

Checked By R. WHITCOMB	Date 12/95	Bridge Design Supervisor J. H. WEAVER Date 12/95
---------------------------	---------------	---

PROJECT	DERBY	PROJECT NO.	TH 2 - 8910
---------	-------	-------------	-------------

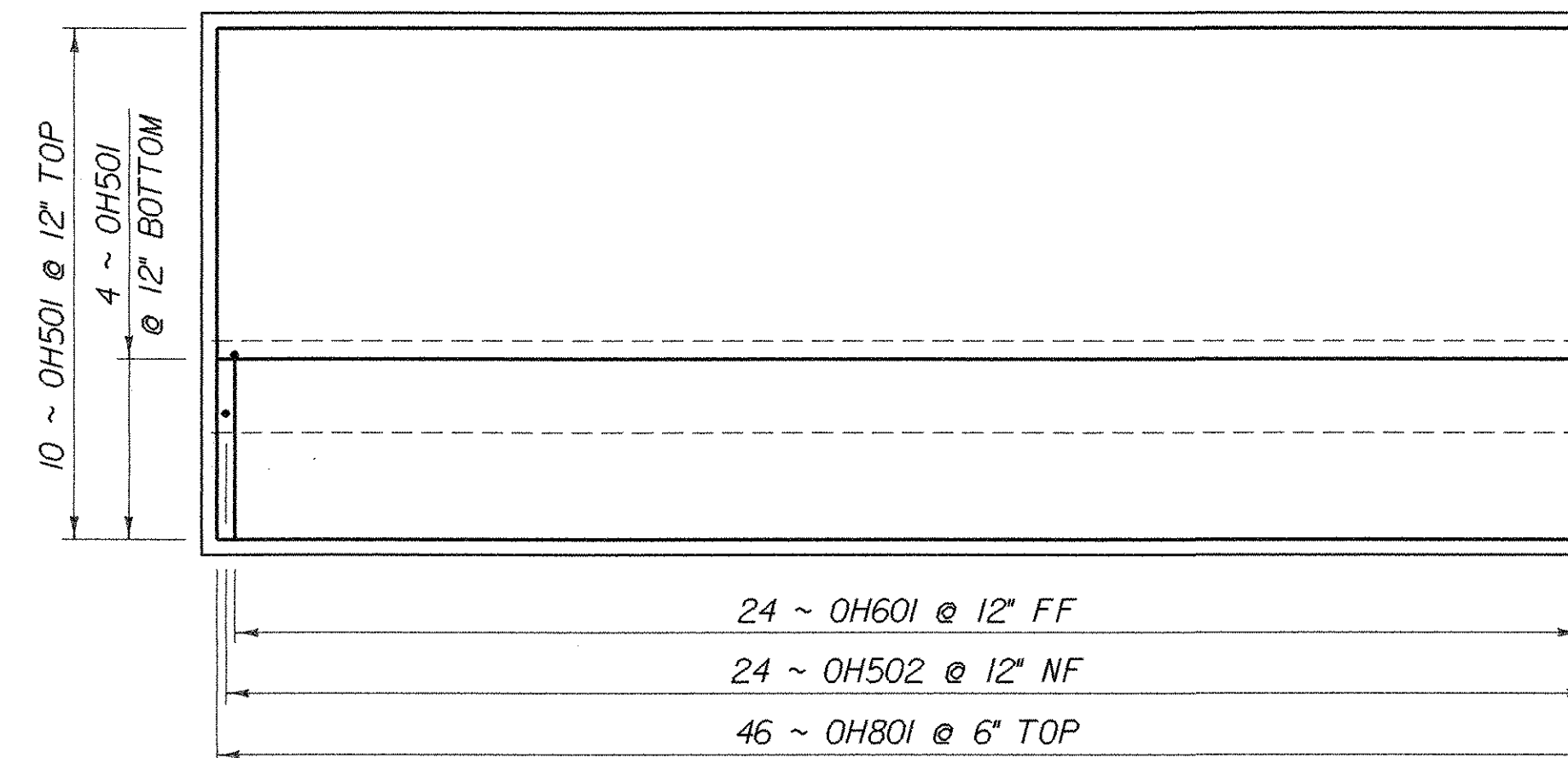
I.G.C. Info. /str3/88jlll/sjlllhw.dgn	sjlllhw.l
---------------------------------------	-----------

Bridge Sheet No.	Sheet 12 of 29
------------------	----------------



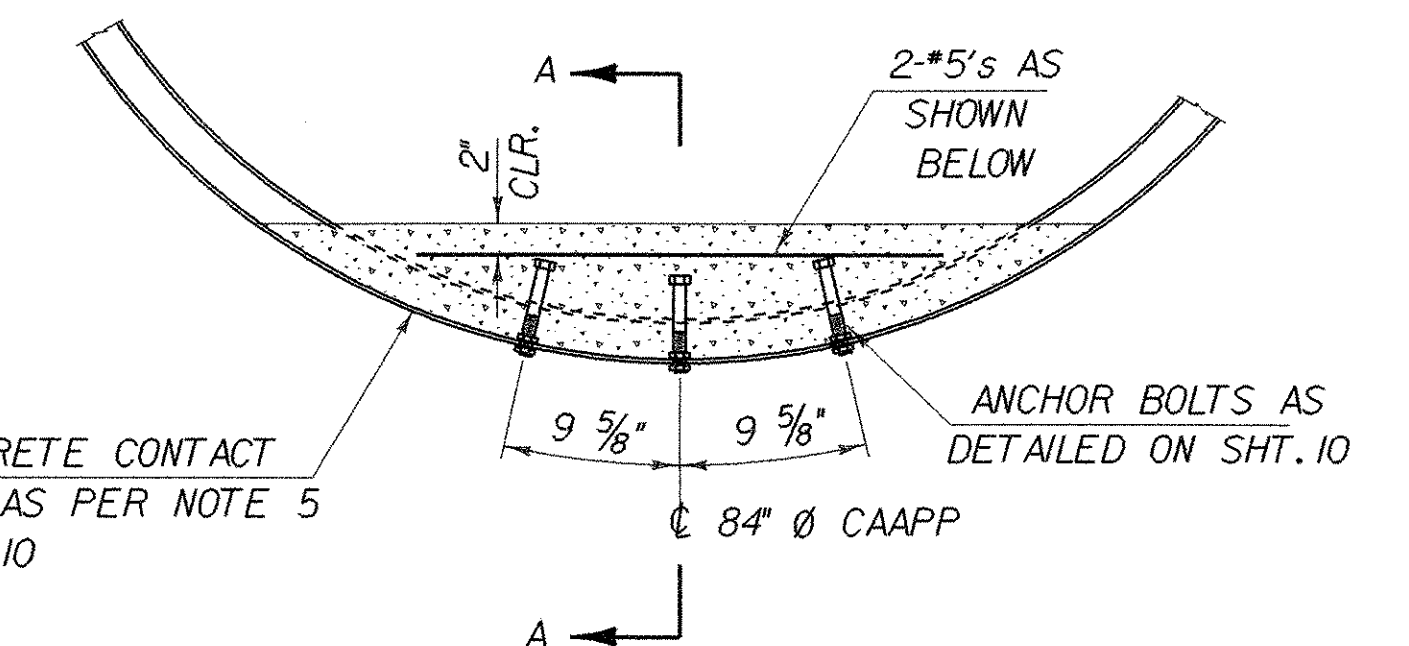
OUTLET HEADWALL PLAN

SCALE: $\frac{3}{8}$ " = 1'-0"



OUTLET HEADWALL FOOTING REINFORCING

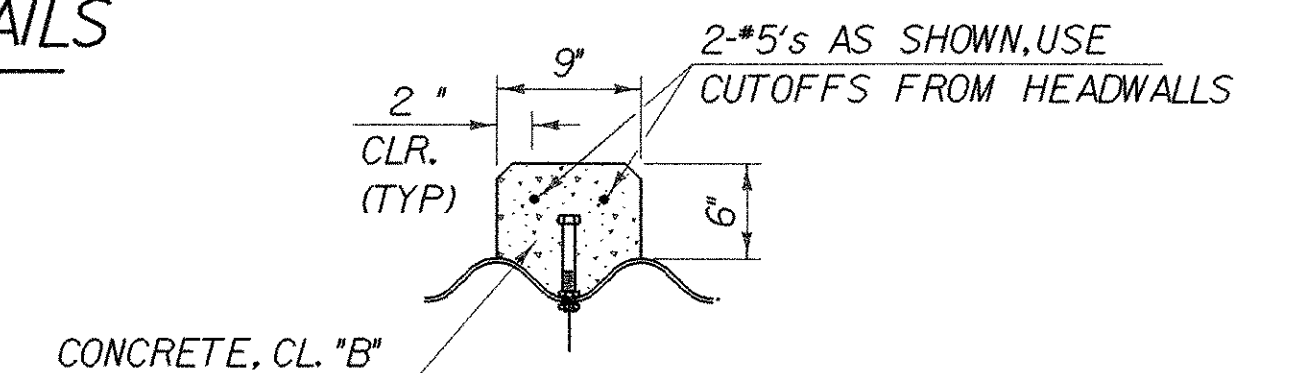
SCALE: $\frac{3}{8}$ " = 1'-0"



PARTIAL PIPE SECTION

PIPE BAFFLE DETAILS

SCALE: 1" = 1'-0"

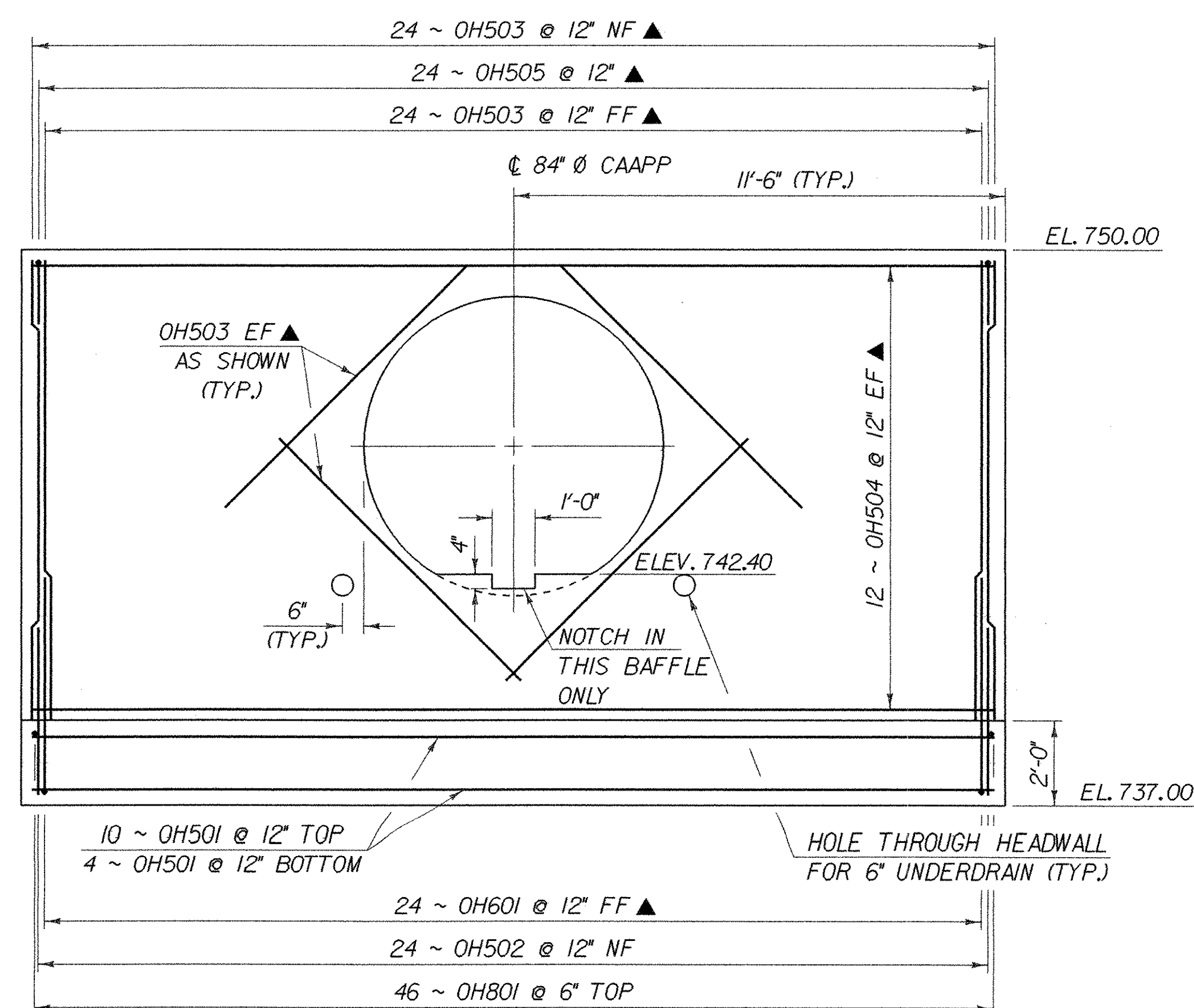


SECTION A - A

THE BAFFLES LOCATED WITHIN THE PIPE SHALL NOT BE INSTALLED UNTIL THE FULL DEPTH OF THE GRANULAR BORROW BACKFILL HAS BEEN PLACED.

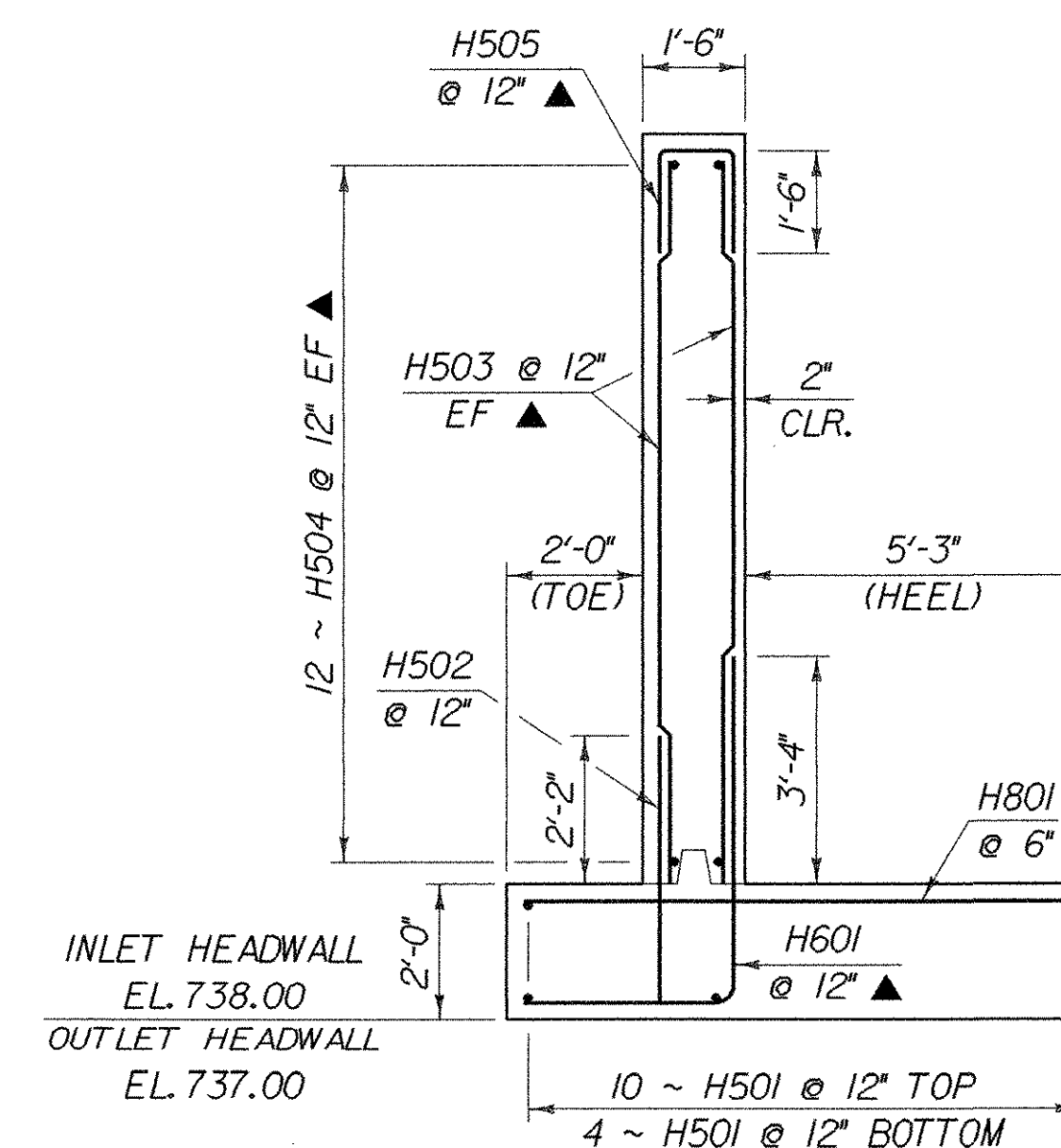
ALL COSTS OF PLACING THE PIPE BAFFLES SHALL BE INCLUDED IN THE PRICE BID FOR THE 8" CAAPP.

SEE SHEET 10 FOR BAFFLE LOCATIONS. THE SPACING WILL BE ADJUSTED TO BE CENTERED ON THE NEAREST CORRUGATION VALLEY.



OUTLET HEADWALL ELEVATION

SCALE: $\frac{3}{8}$ " = 1'-0"



TYPICAL HEADWALL & WINGWALL SECTION

SCALE: $\frac{3}{8}$ " = 1'-0"

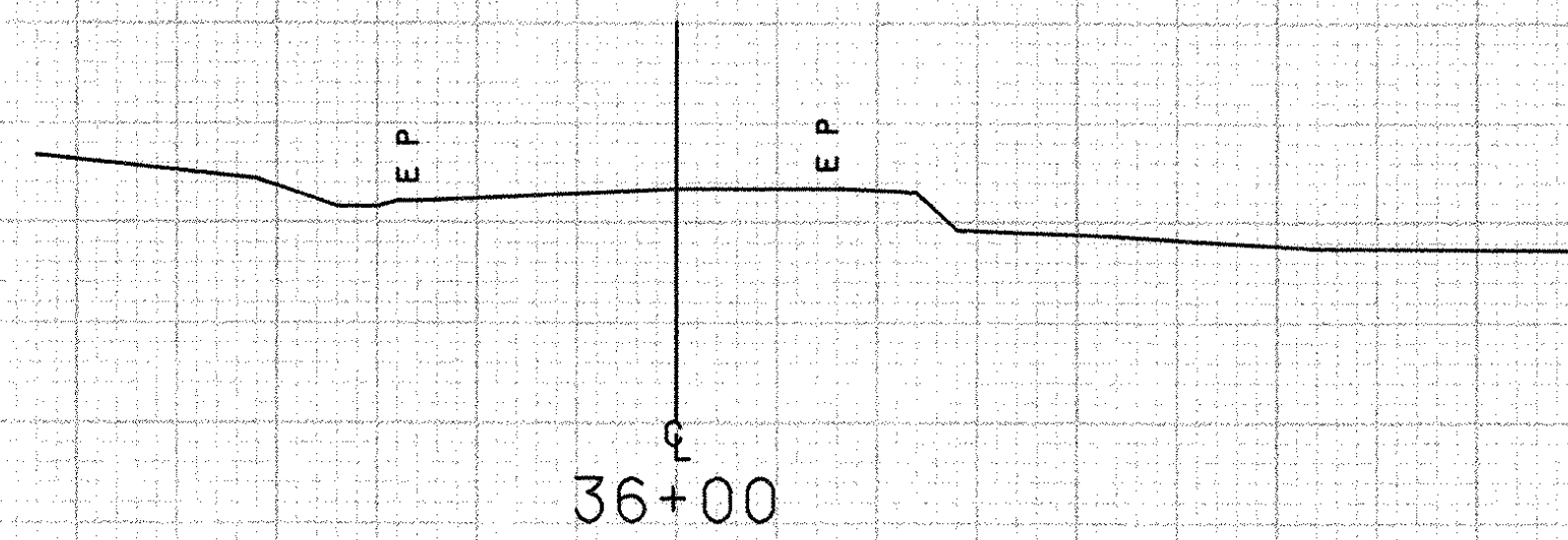
NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

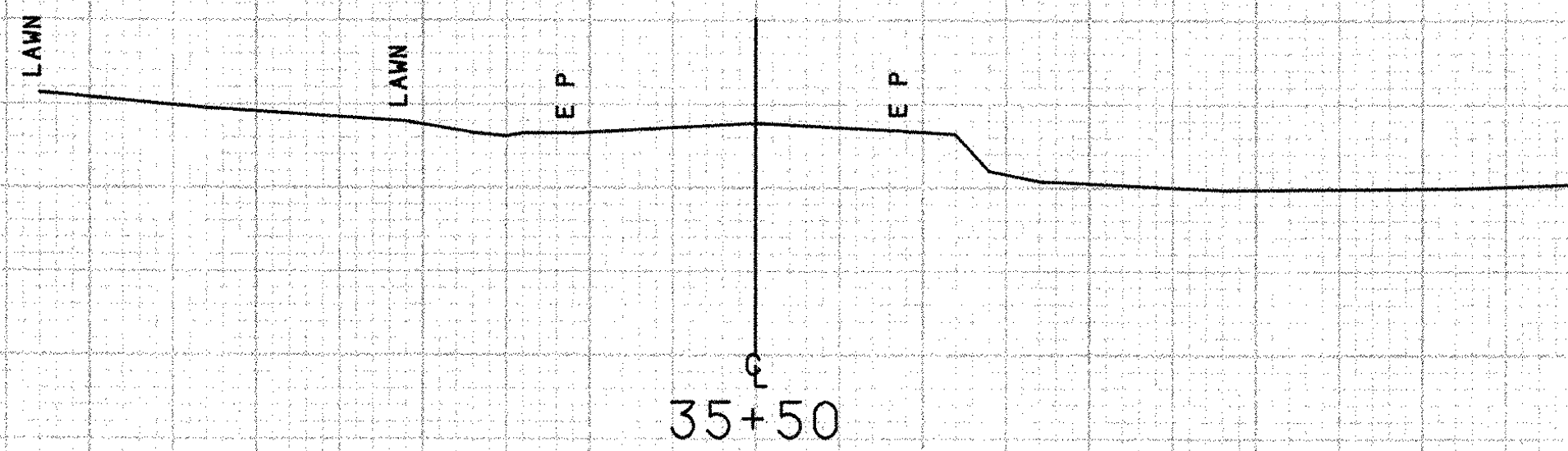
STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	DERBY	Bridge No.	13
Highway No.	T. H. 6	Log Sta.	
	T. H. 6 OVER BROOK	Surv. Sta.	
OUTLET HEADWALL DETAILS			
Designed By	R. WHITCOMB	Drawn By	G. ROY
Checked By	R. WHITCOMB	Bridge Design Supervisor	J. H. WEAVER
PROJECT	DERBY	PROJECT NO.	TH 2 - 8910
I.G.C. Info. /str3/88/III/s/IIIhw.dgn		s/IIIhw.dgn	
Bridge Sheet No.		Sheet 13 of 29	



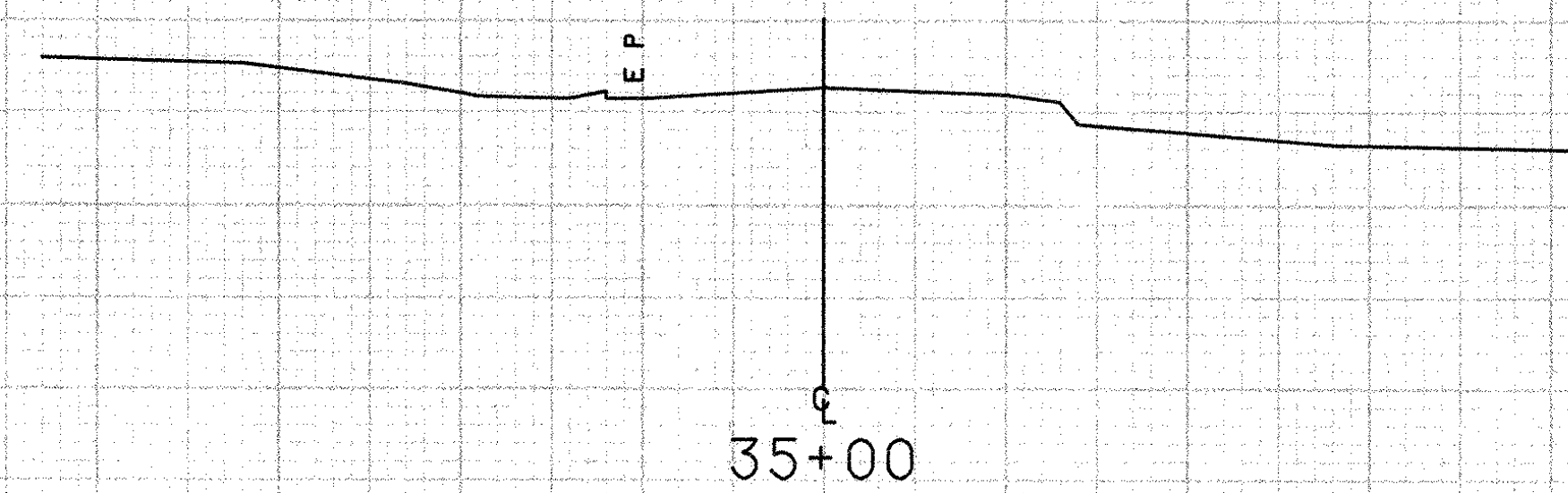
780



790



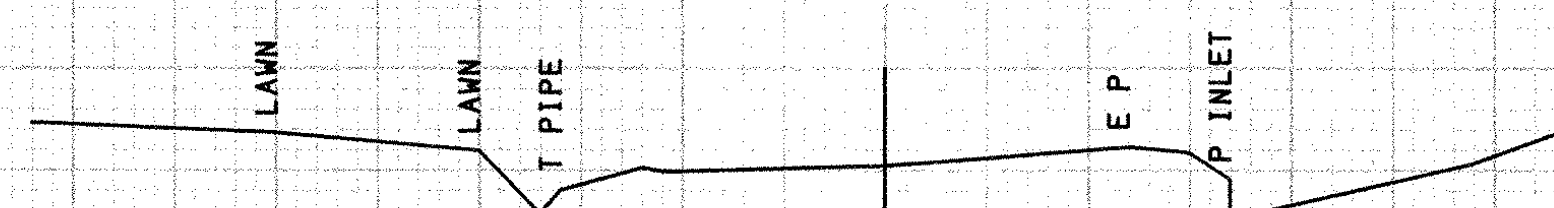
790



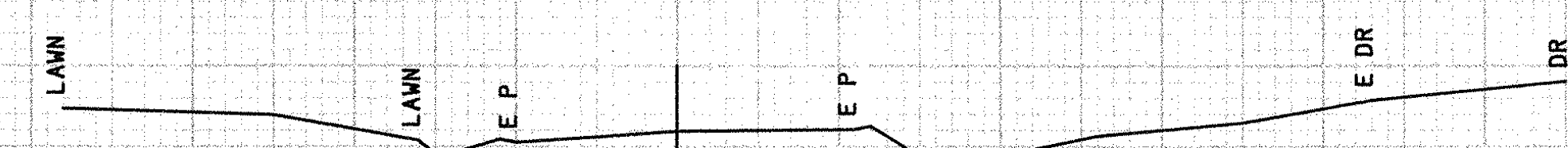
790

SCALE 1" = 10 FEET

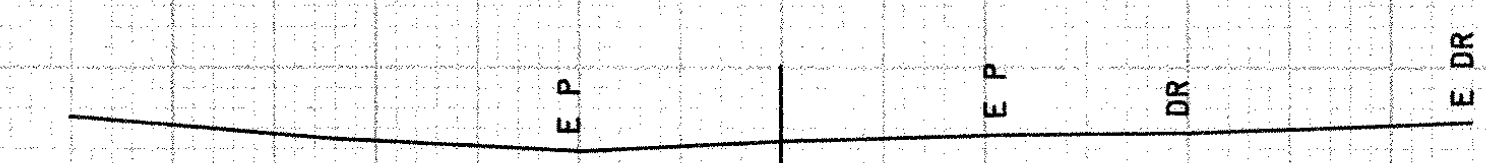
FROM STA.	35+00	TO STA.	36+50
PROJECT NAME	DERBY M1		
NO.	TH28910		
SURVEYED BY	L. NOYES		
SHEET	15	OF	29 SHEETS
		PLOTTED	05/16/89
			03/89 0219



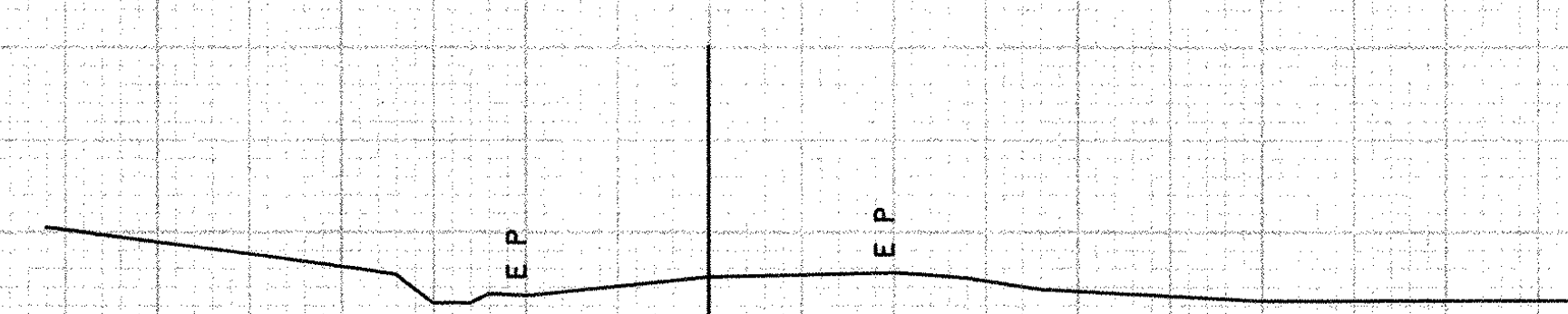
780



780



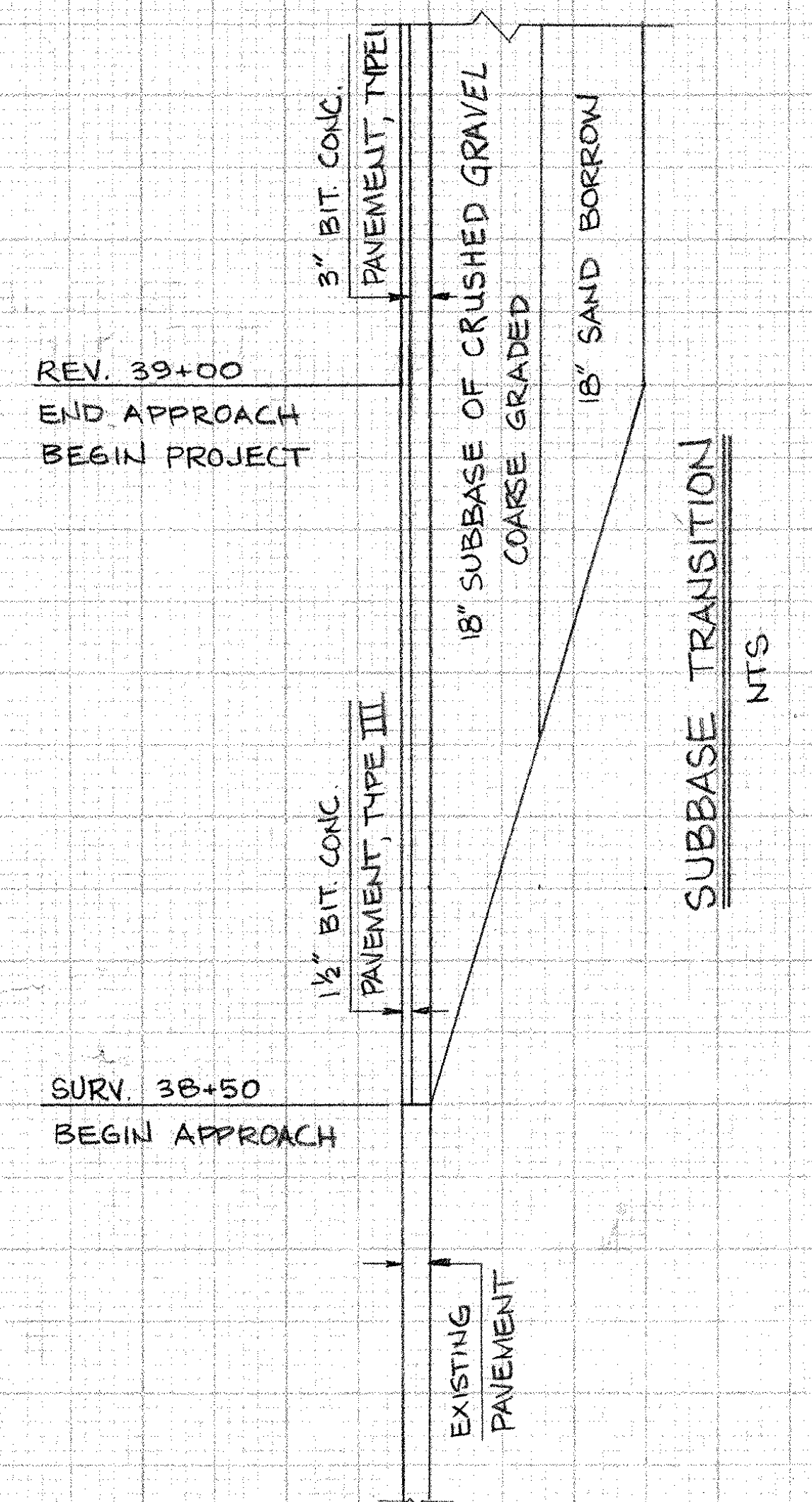
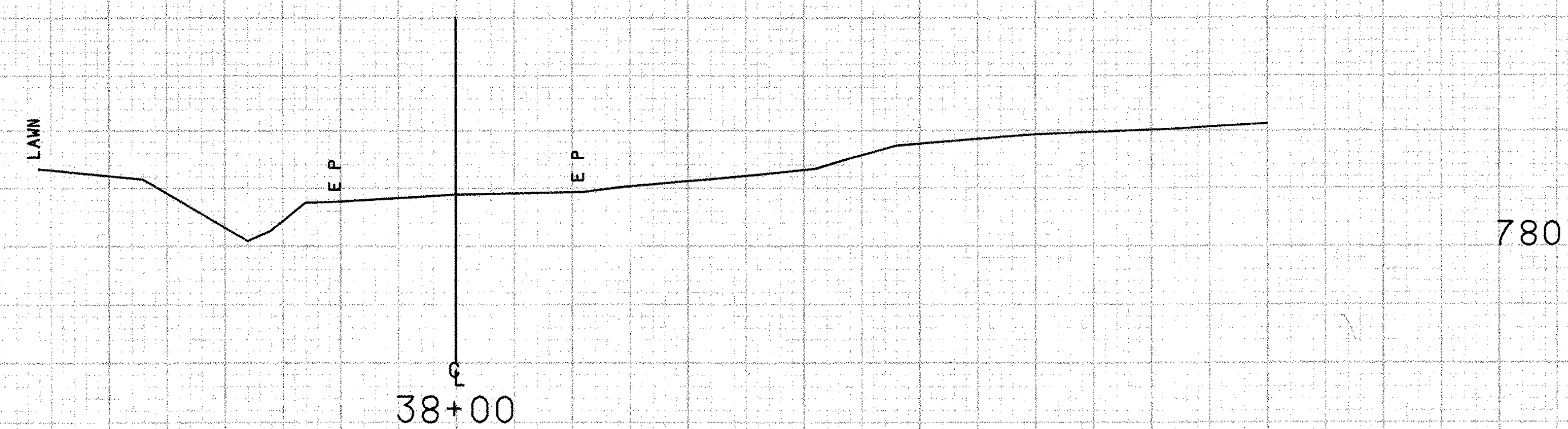
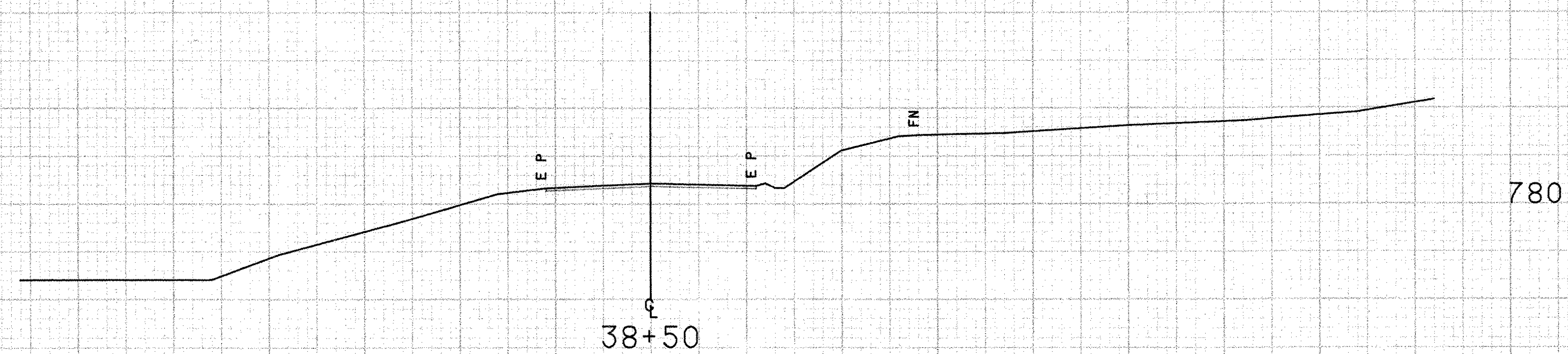
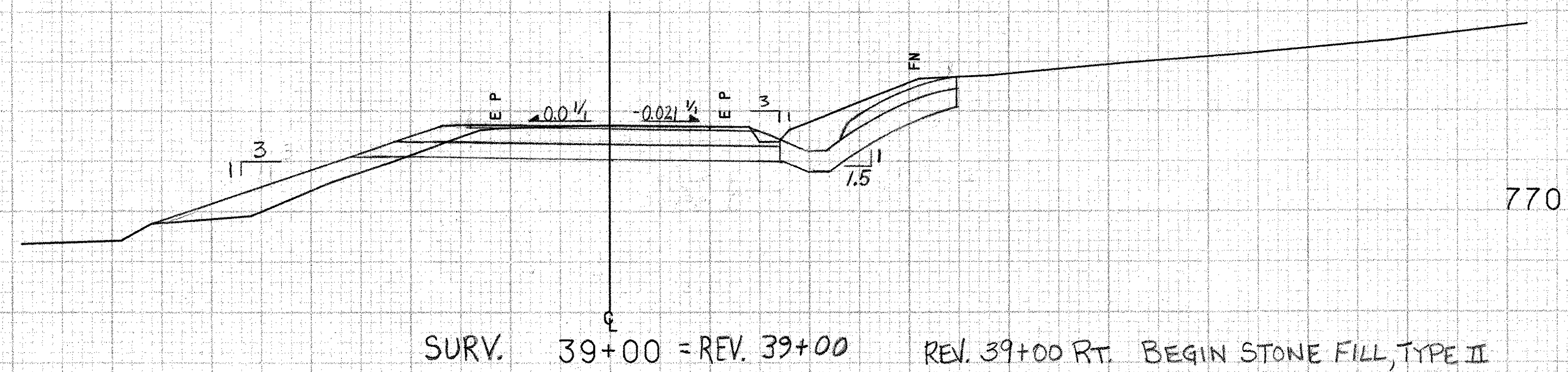
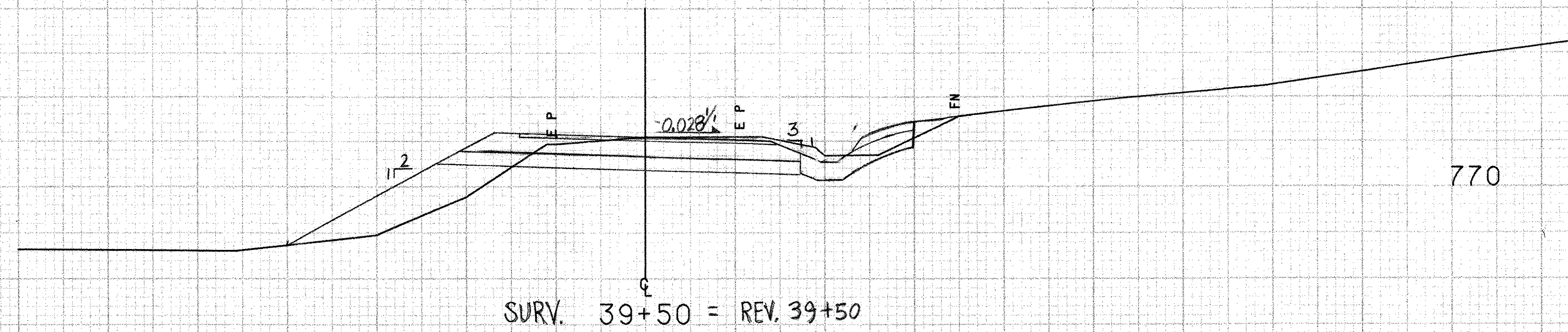
780



780

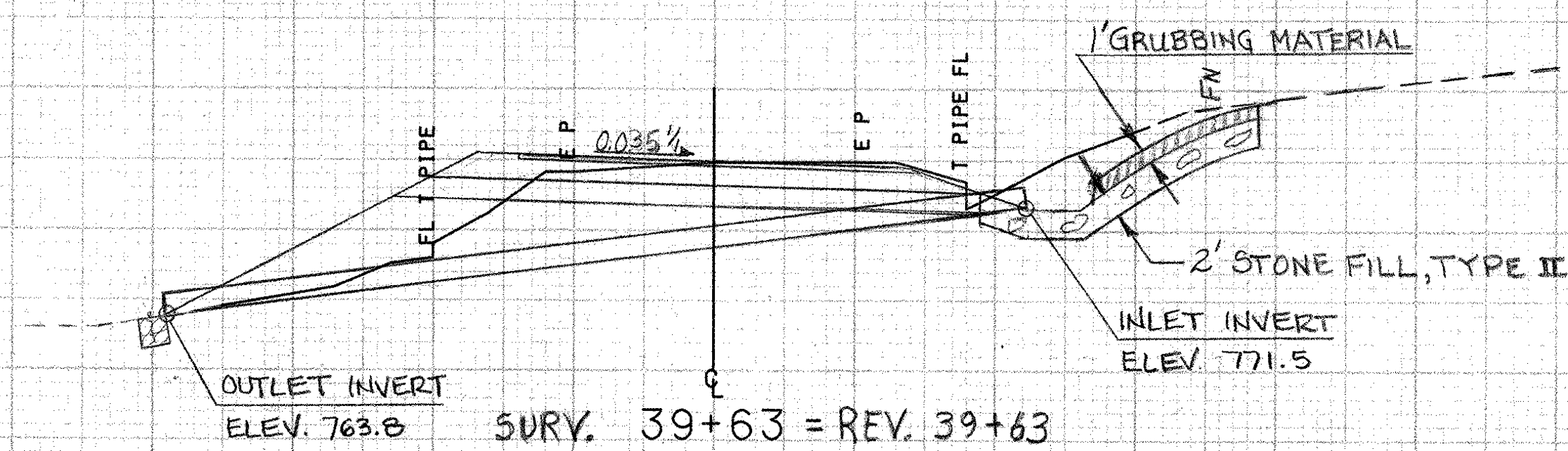
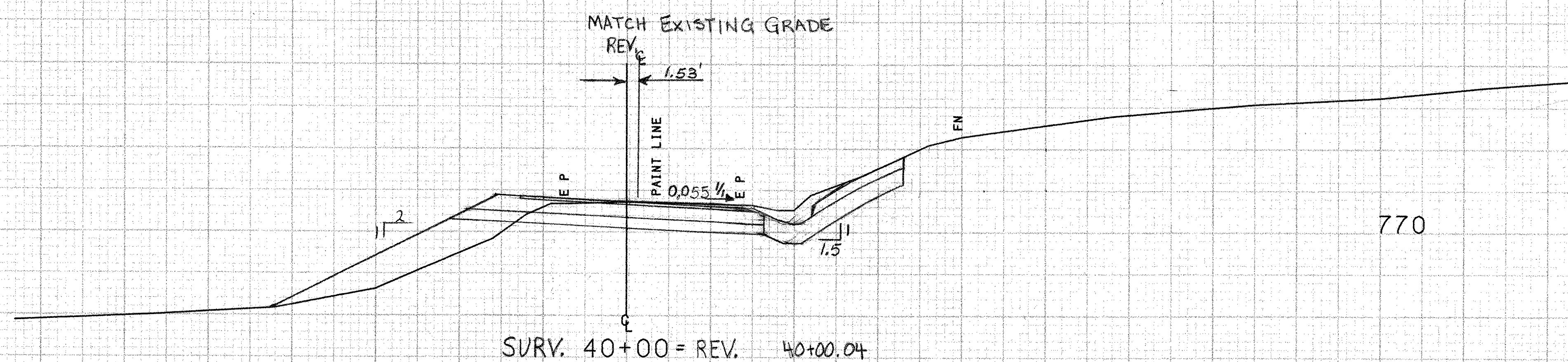
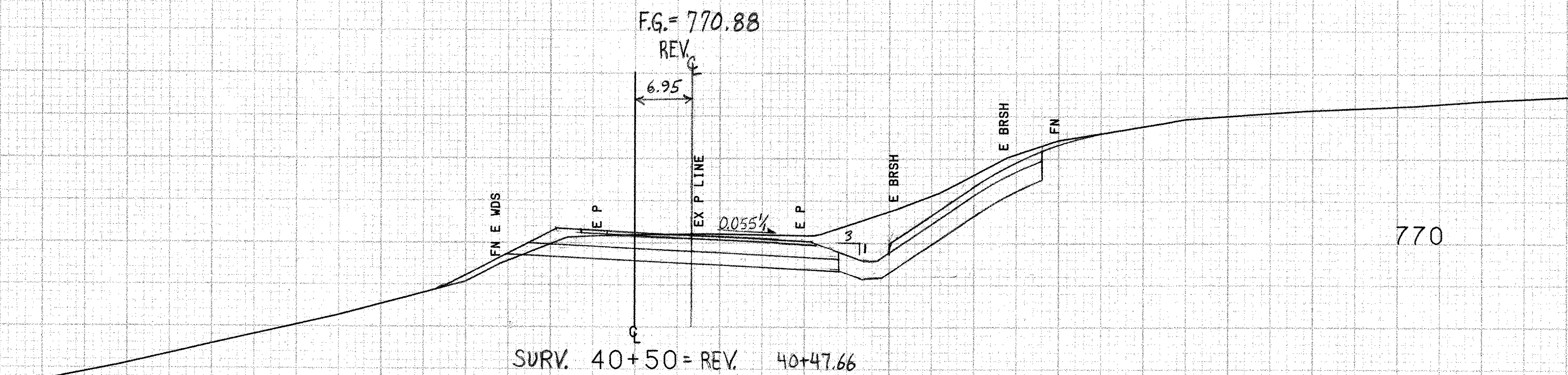
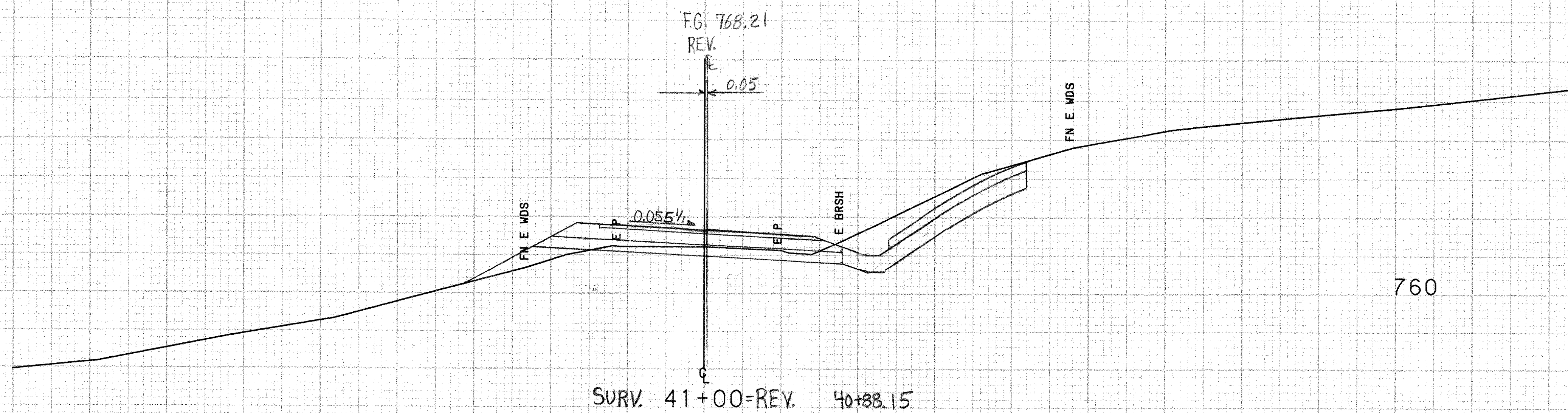
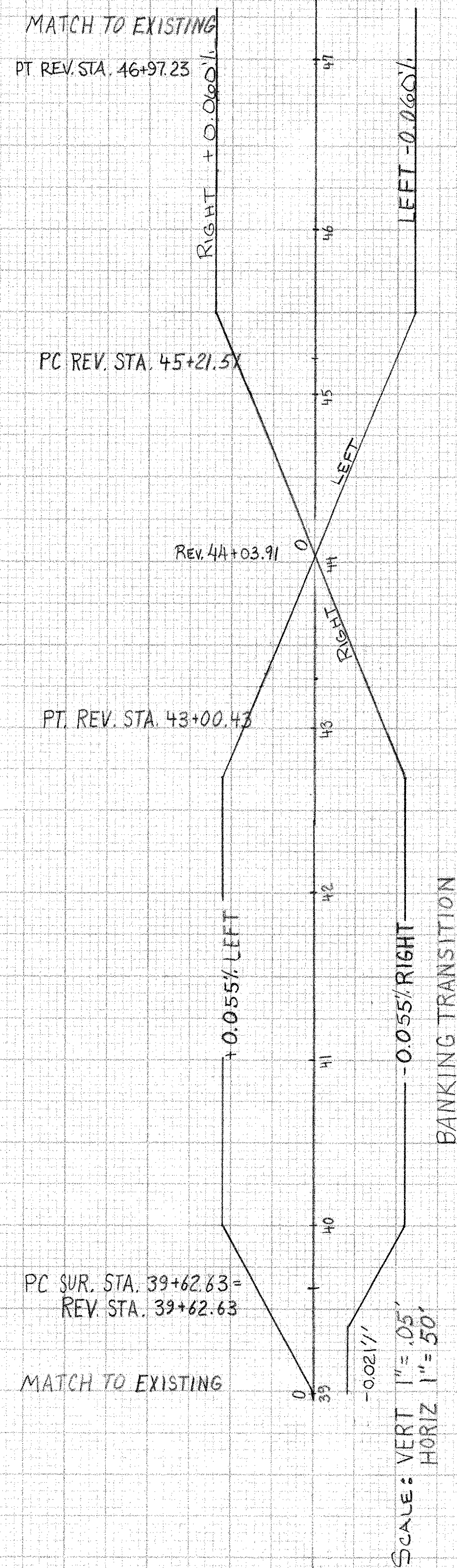
FROM STA.	37+00	TO STA.	37+55
PROJECT NAME	DERBY M1		
NO.	TH28910		
SURVEYED BY	L. NOYES	PLOTTED	05/16/89
SHEET	16	OF	29 SHEETS

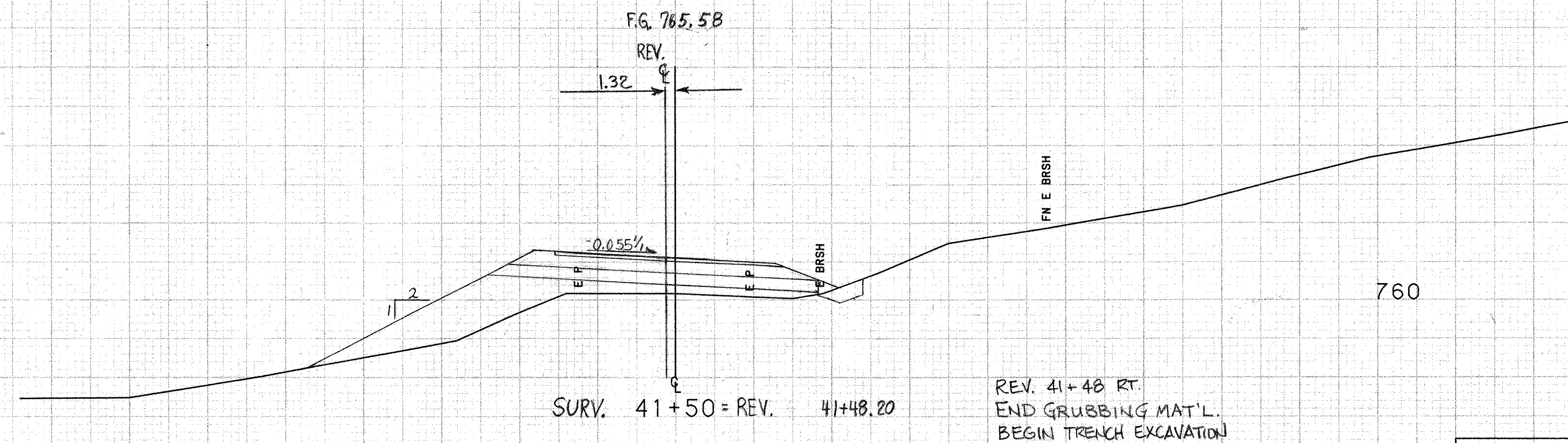
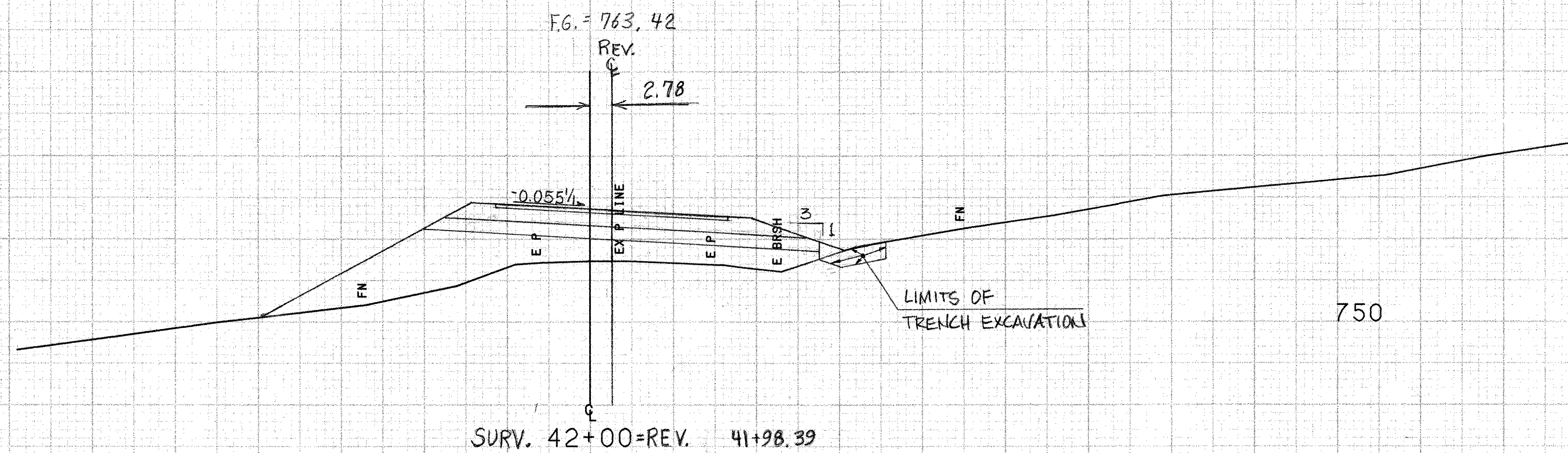
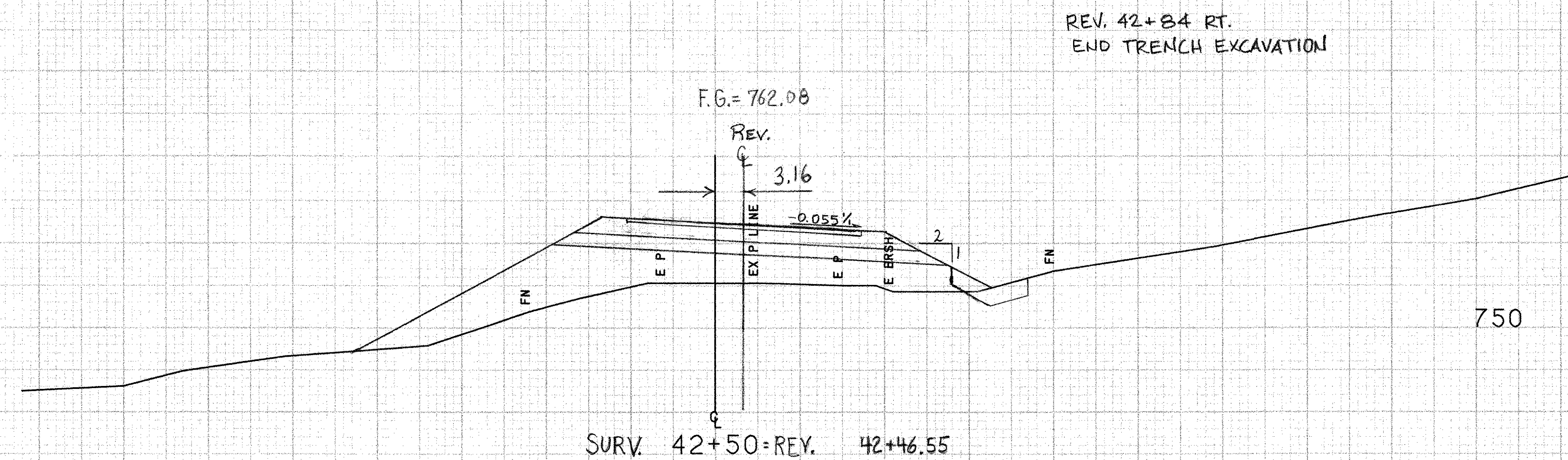
SCALE 1" = 10 FEET



FROM STA. 38+00	TO STA. 39+50
PROJECT NAME	DERBY MI
NO.	TH28910
SURVEYED BY	L. NOYES
SHEET 17	OF 29 SHEETS
	PLOTTED 05/16/89
	03/89 0219

SCALE 10 FEET

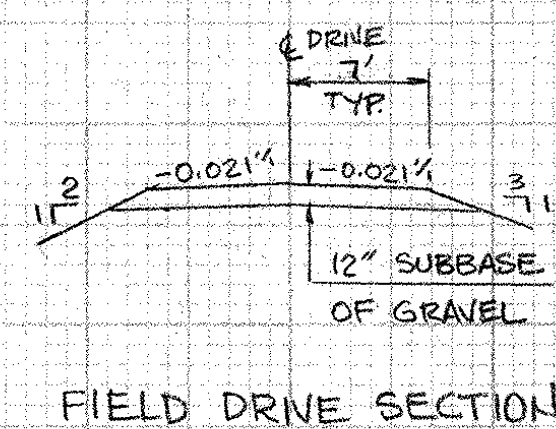
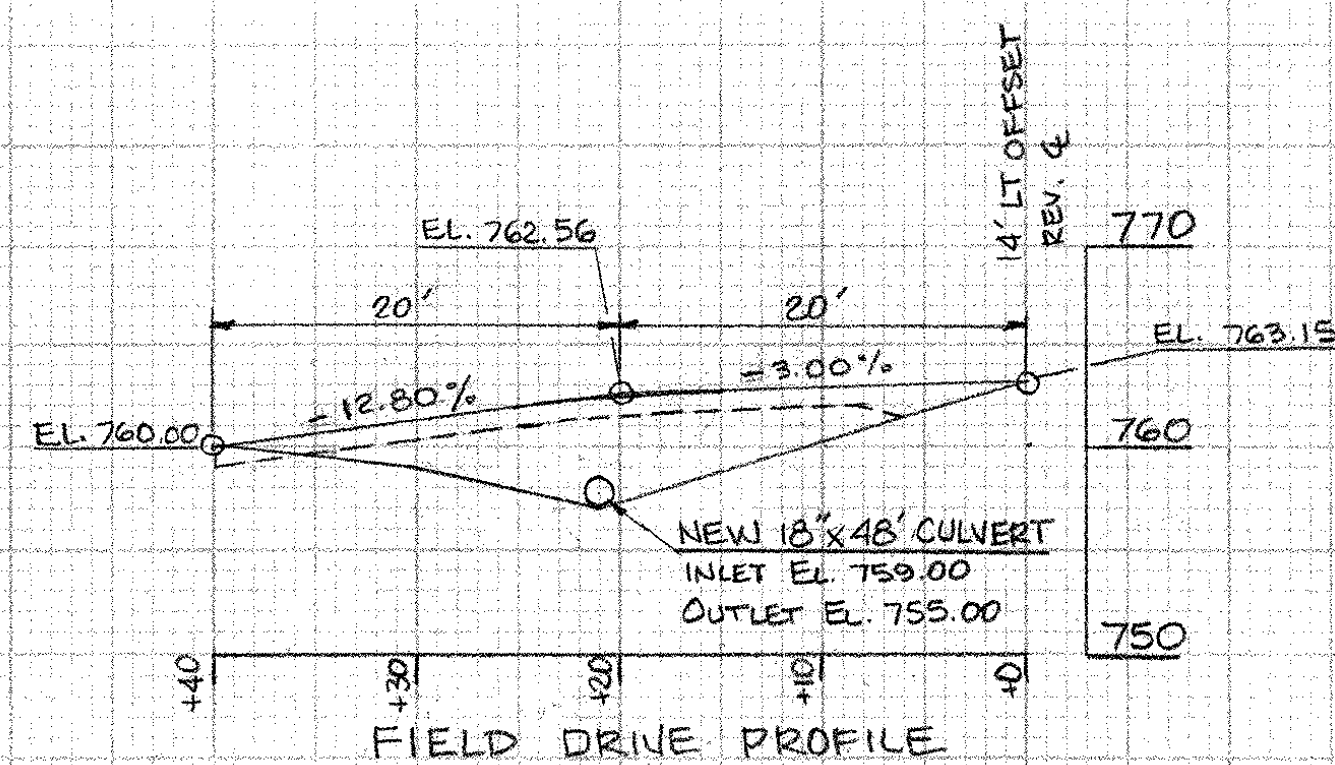




REV. 41+48 RT.
END GRUBBING MAT'L.
BEGIN TRENCH EXCAVATION

FROM STA.	41+50	TO STA.	42+50
PROJECT NAME	DERBY M1		
NO.	TH28910		
SURVEYED BY	L. NOYES		
SHEET 12	OF 29	SHEETS	
		PLOTTED	05/16/89
			03/89 0219

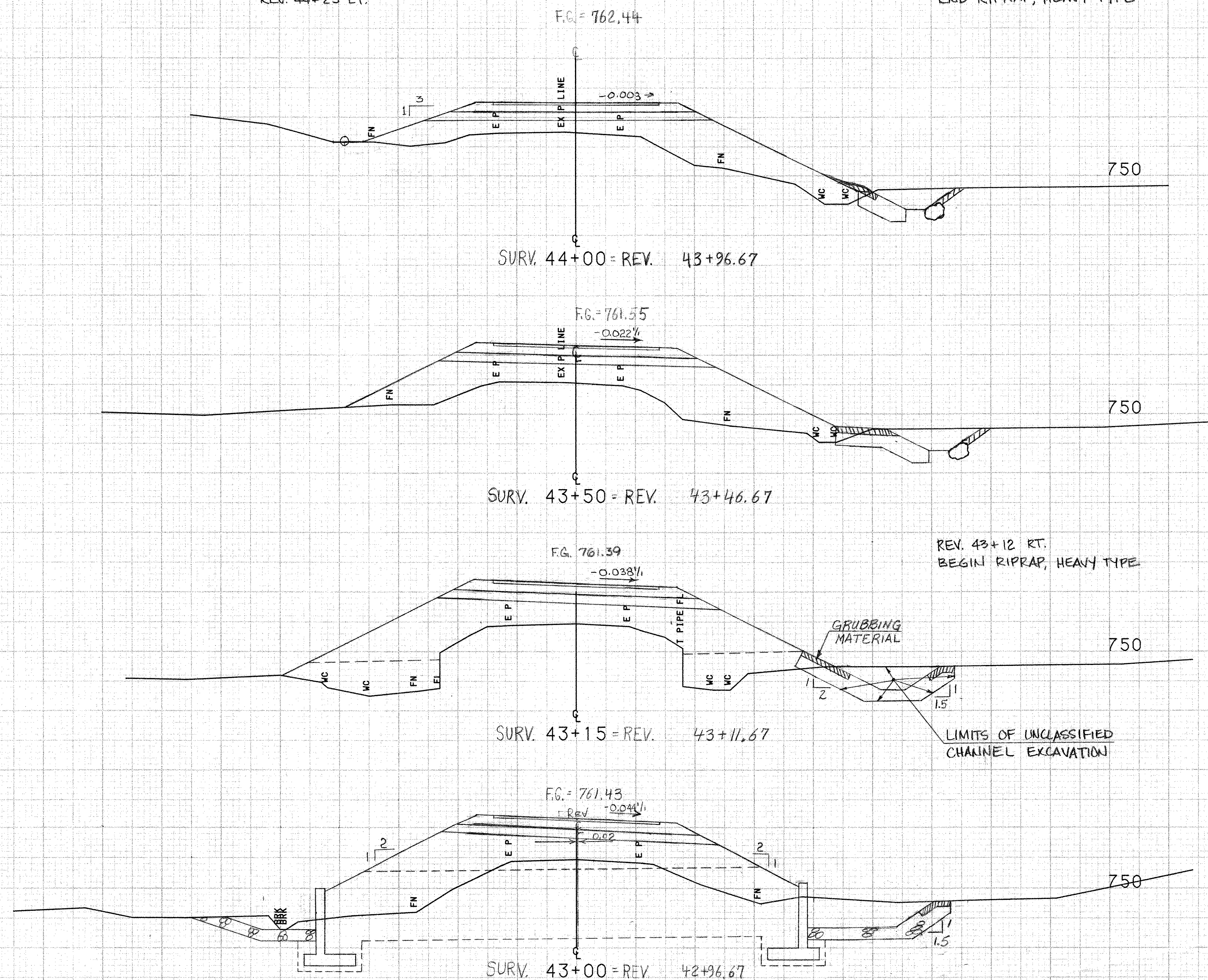
SCALE 1" = 10 FEET

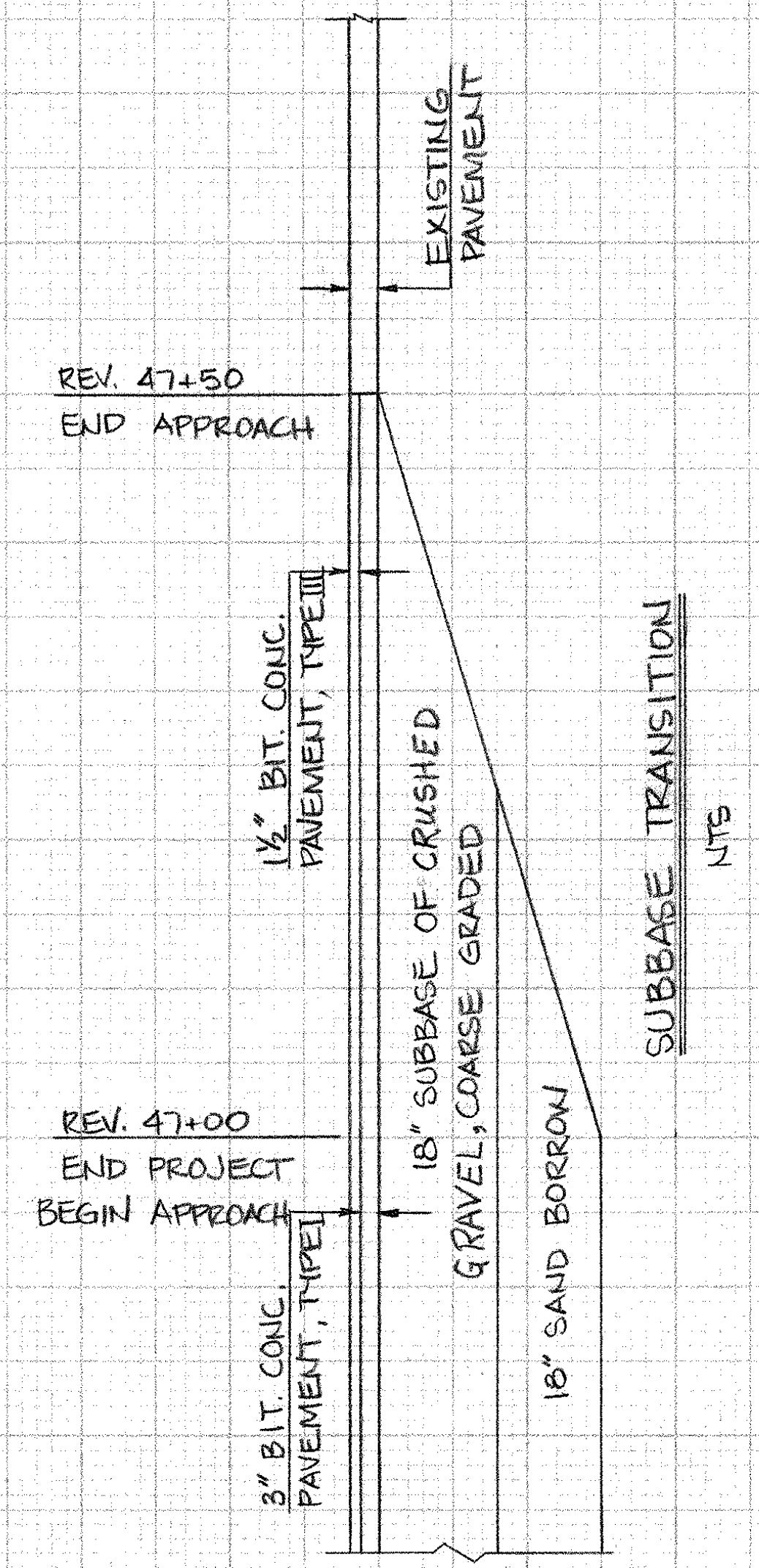
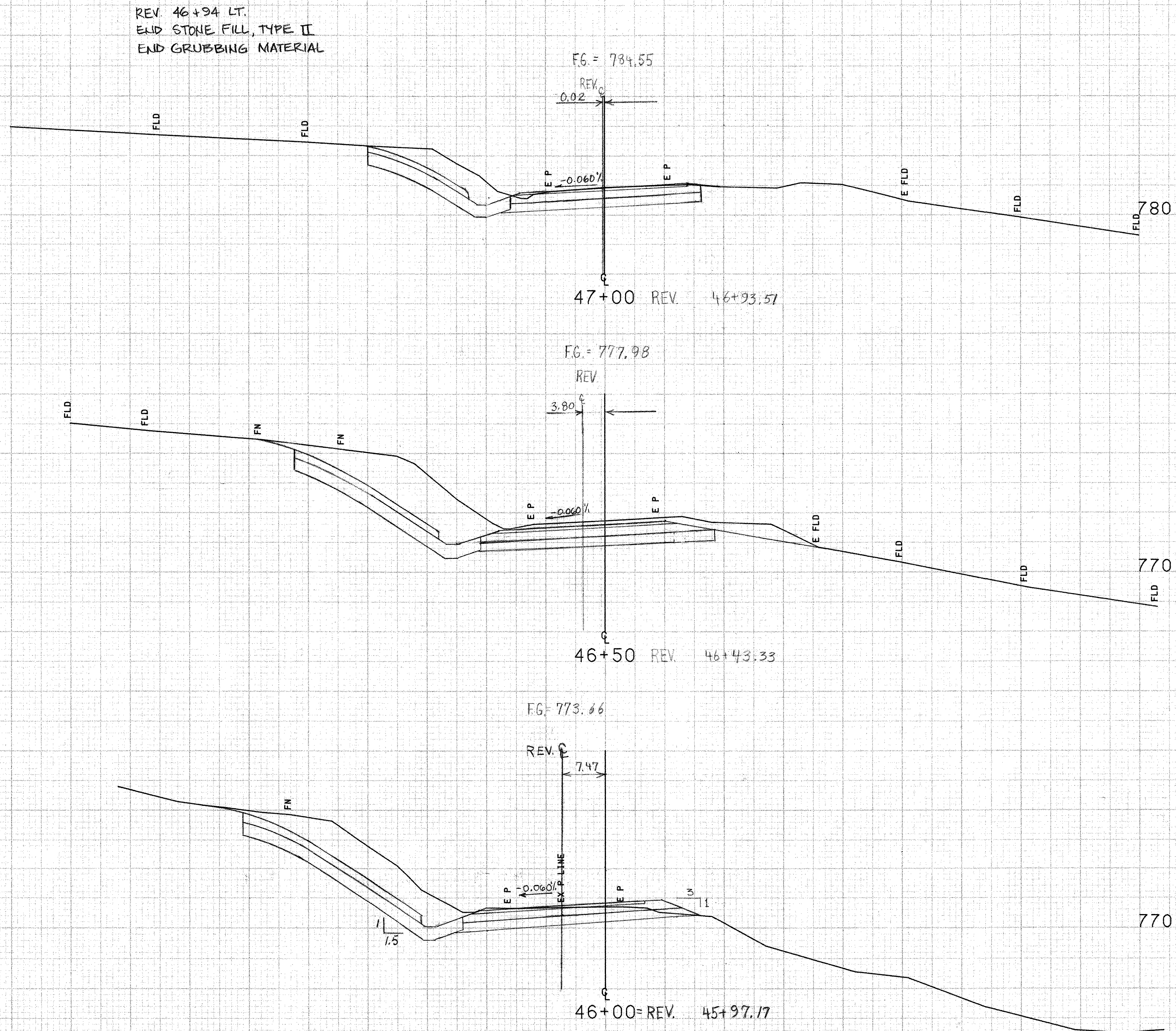


CONSTRUCT 14' FIELD DRIVE
REV. 44+25 LT.

REV. 44+32 RT.
END STONE FILL, TYPE II

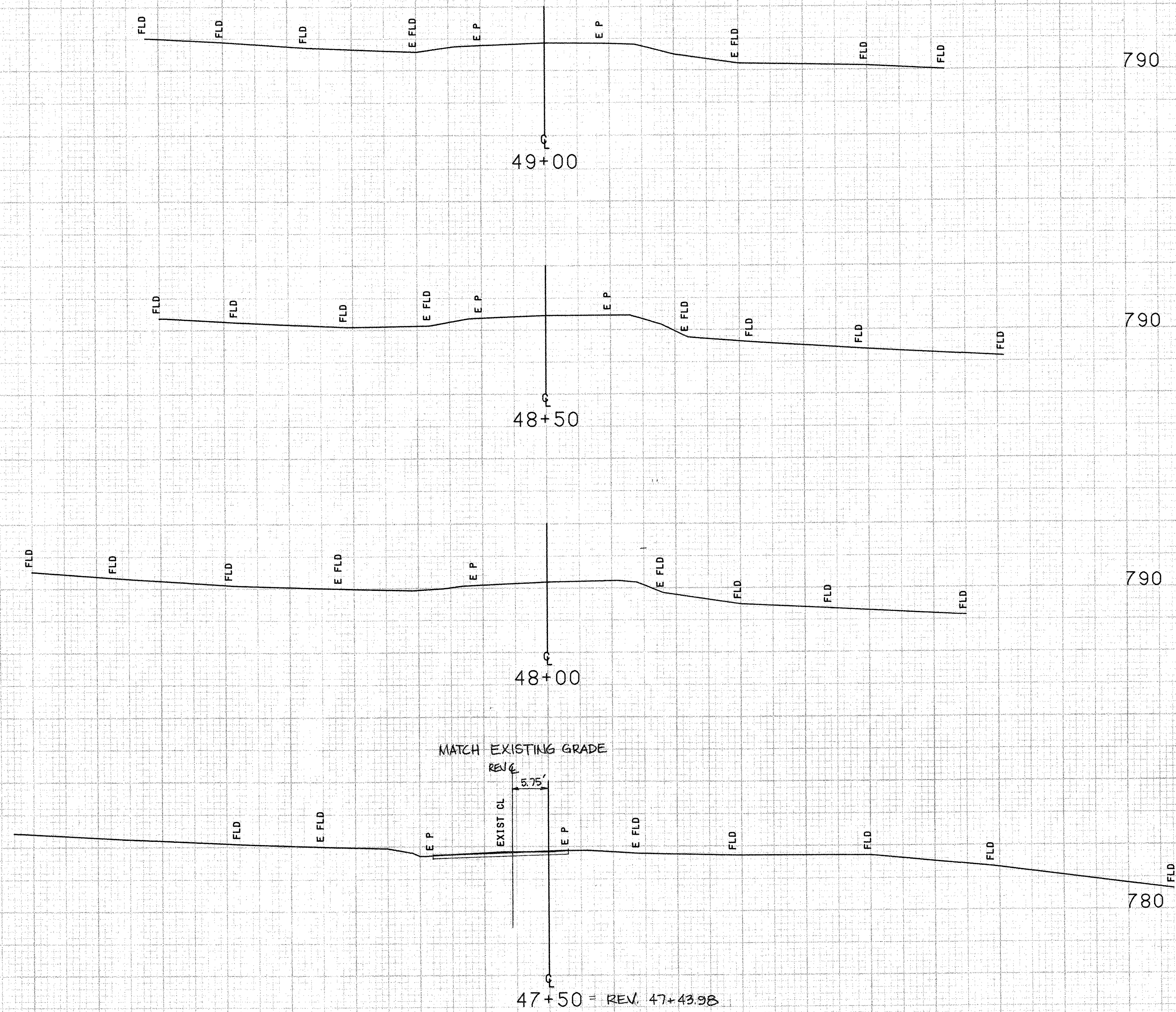
REV. 44+28 RT.
END RIPRAP, HEAVY TYPE





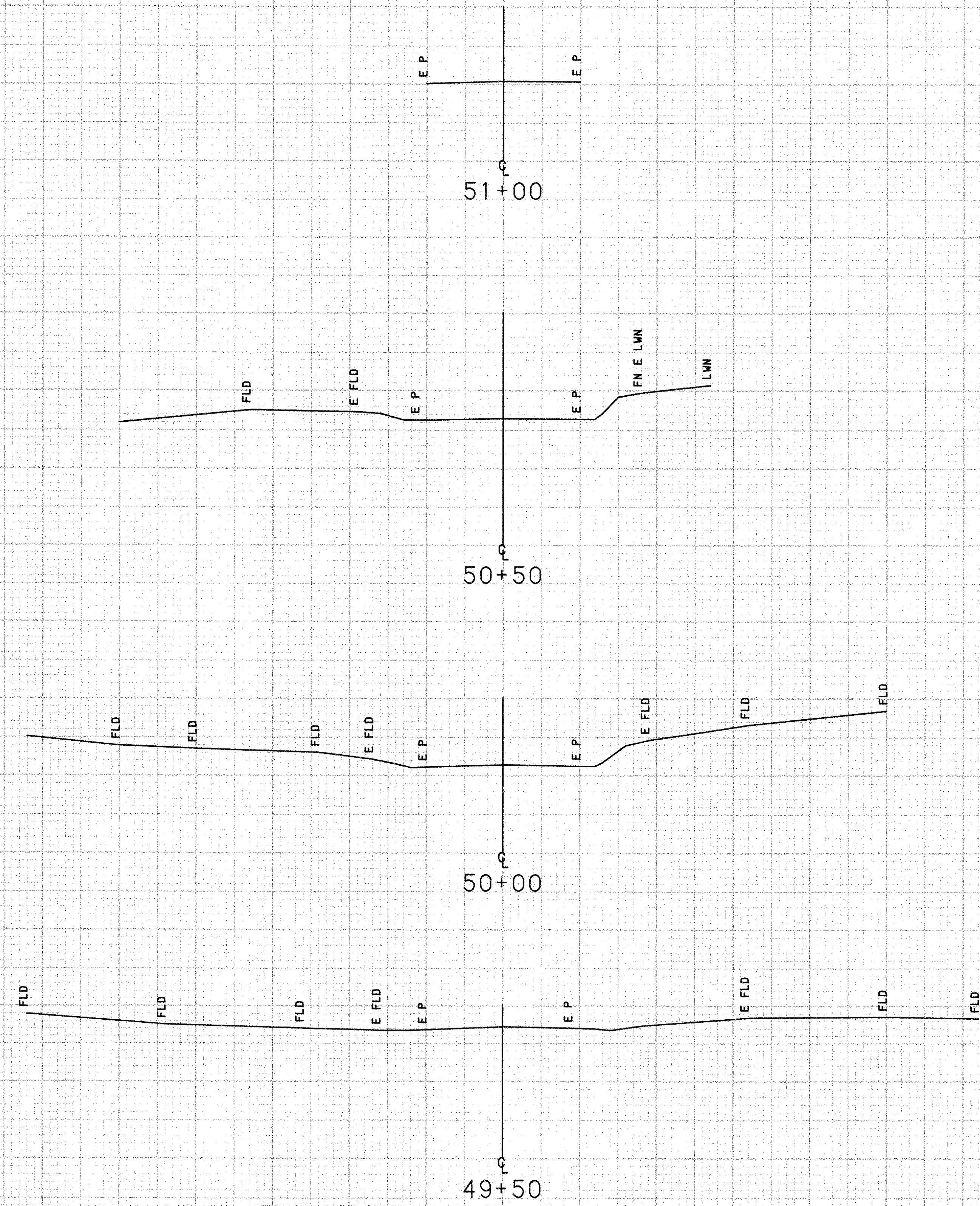
SCALE 1" = 10 FEET

FROM STA.	46+00	TO STA.	47+00
PROJECT NAME	DERBY M1		
NO.	TH28910		
SURVEYED BY	L. NOYES	PLOTTED	05/16/89
SHEET 22 OF 29	SHEETS	03/89	0219



SCALE 1" = 10 FEET

FROM STA.	47+50	TO STA.	49+00
PROJECT NAME	DERBY M1		
NO.	TH28910	PLOTTED	05/16/89
SURVEYED BY	L. NOYES		03/89 0219
SHEET	23 OF 29	SHEETS	



810

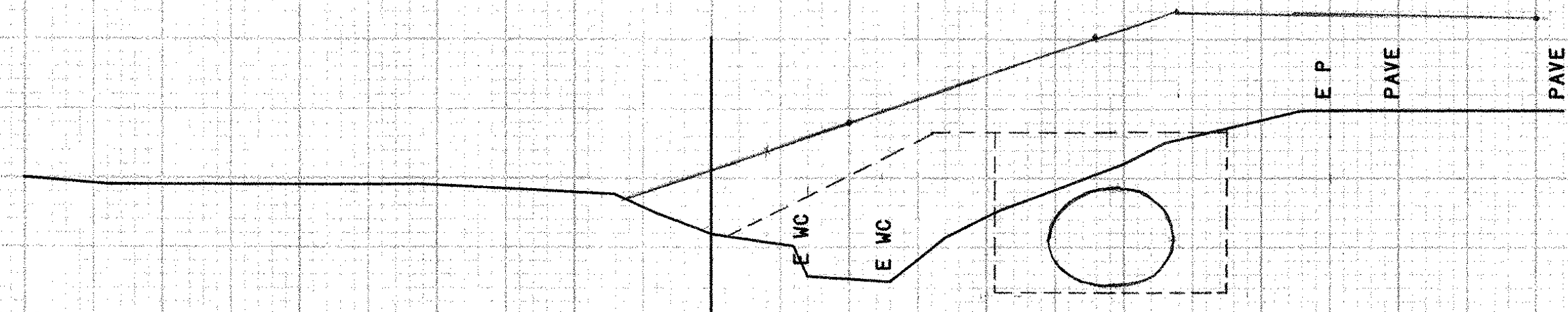
800

800

790

SCALE 10 FEET

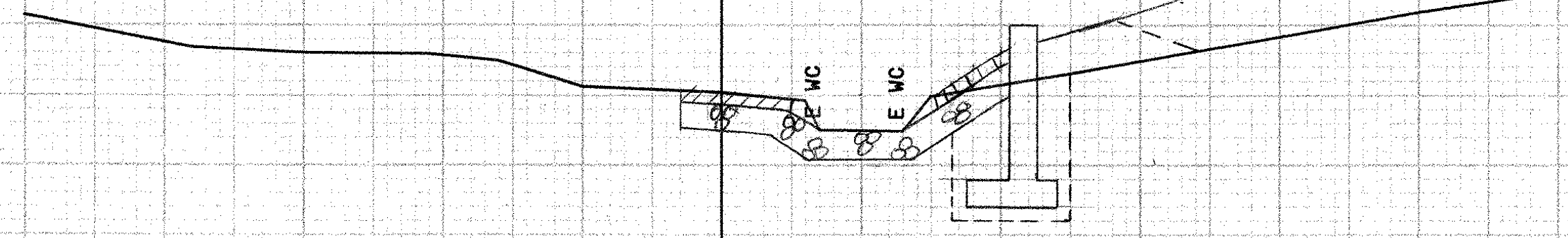
FROM STA.	49+50	TO STA.	51+00
PROJECT NAME	DERBY M1		
NO.	TH28910		
SURVEYED BY	L. NOYES		
SHEET 24	OF 29	SHEETS	
		PLOTTED	05/16/89
			03/89 0219



499+50

740

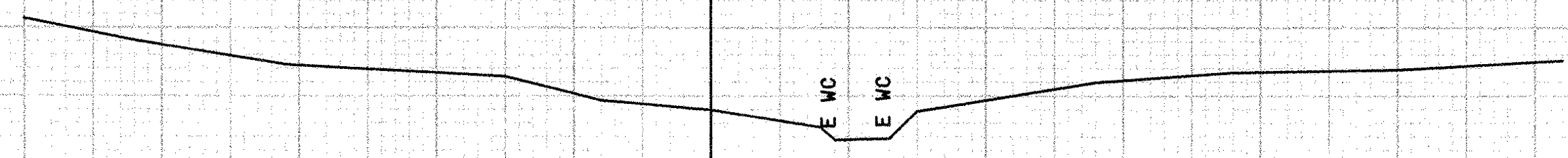
STA 499+21 BEGIN STRUCTURE EXCAVATION
 BEGIN GRANULAR BORROW
 BEGIN GRANULAR BACKFILL FOR
 STRUCTURES



499+25

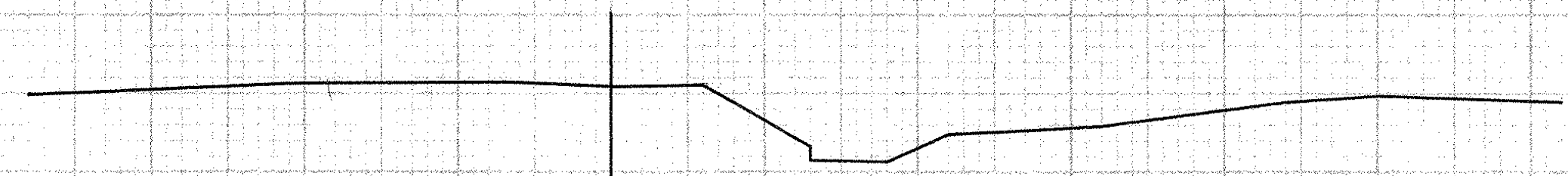
740

STA 499+14 BEGIN STONE FILL, TYPE II
 BEGIN UNCLASSIFIED CHANNEL EXCAVATION
 BEGIN GEOTEXTILE UNDER STONE FILL
 BEGIN GRUBBING MATERIAL



499+00

740

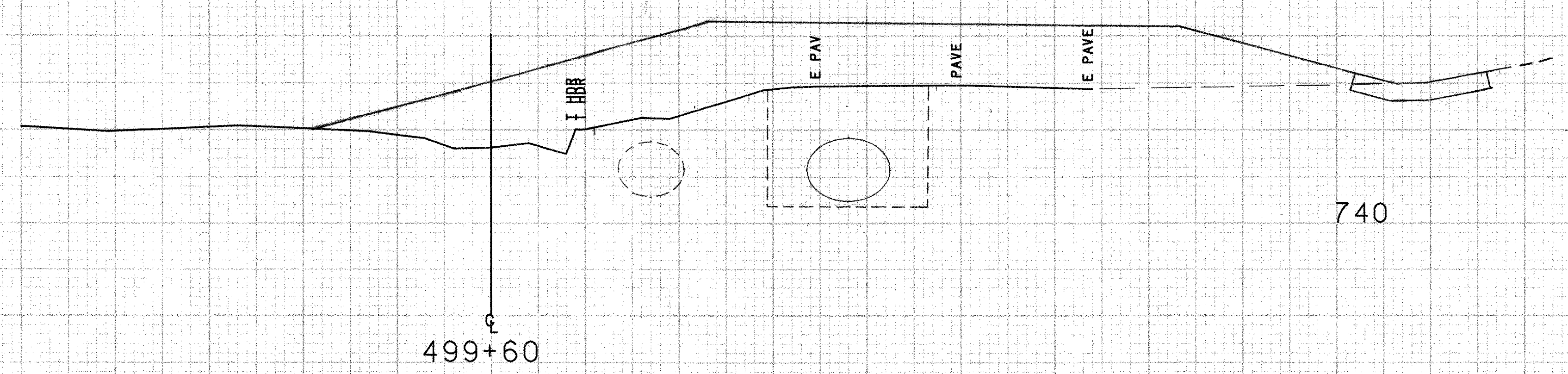
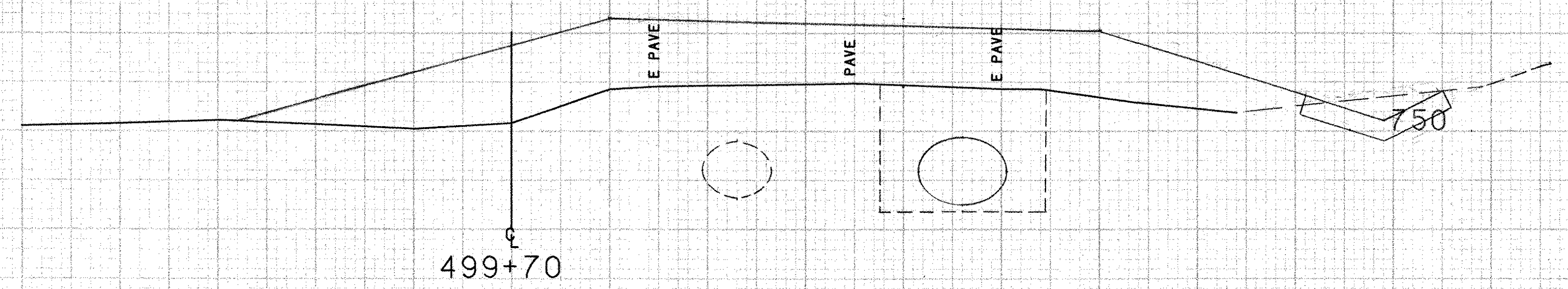
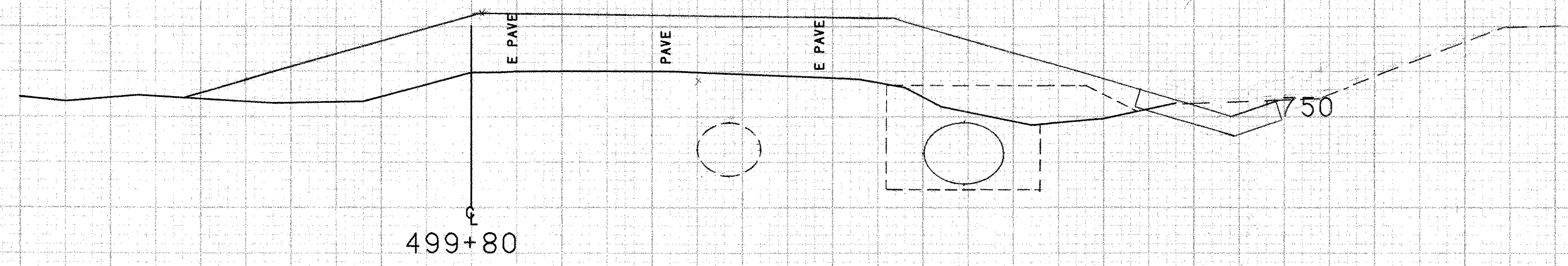
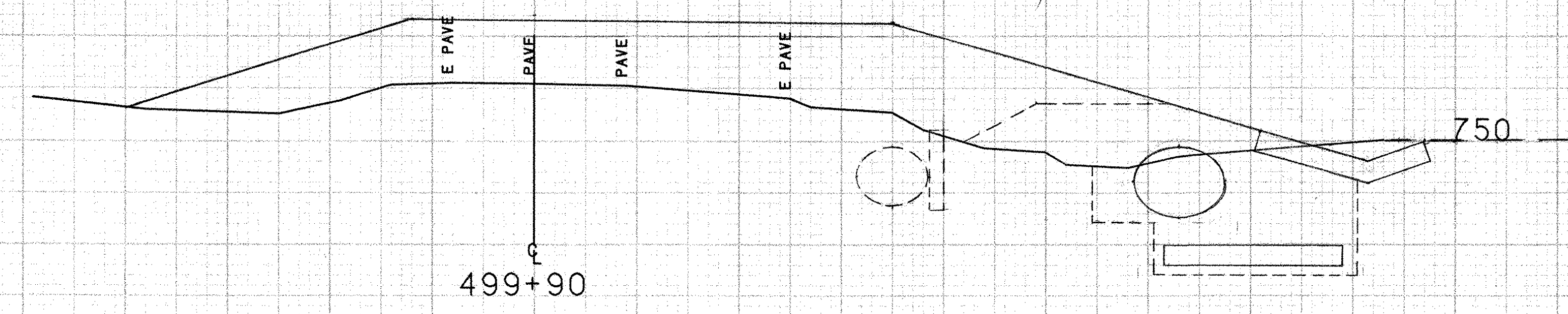


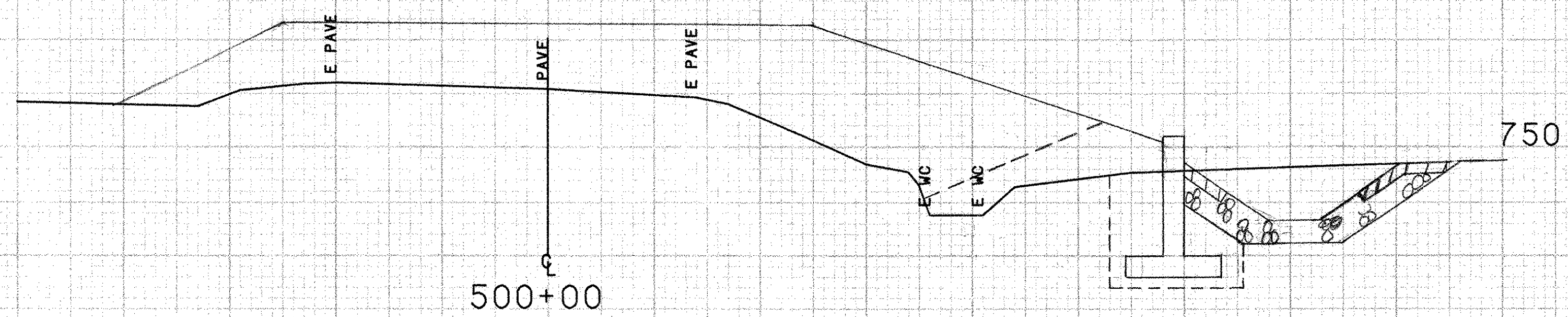
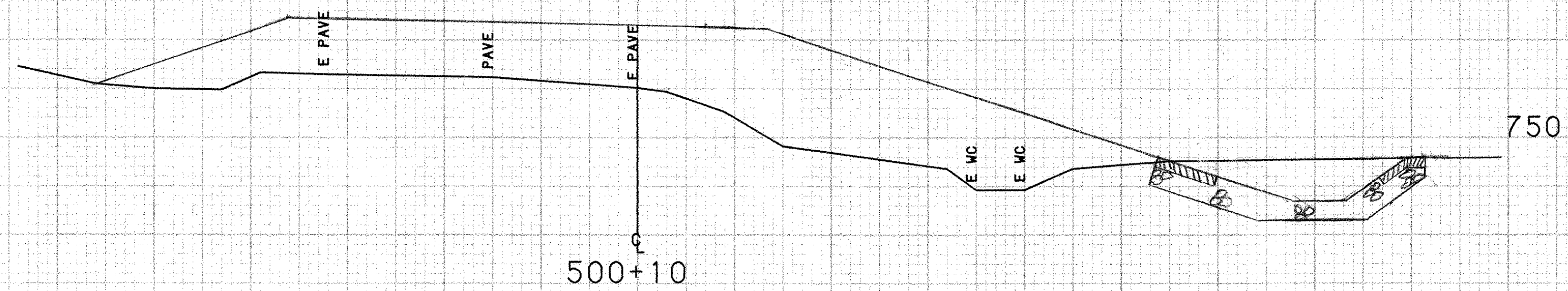
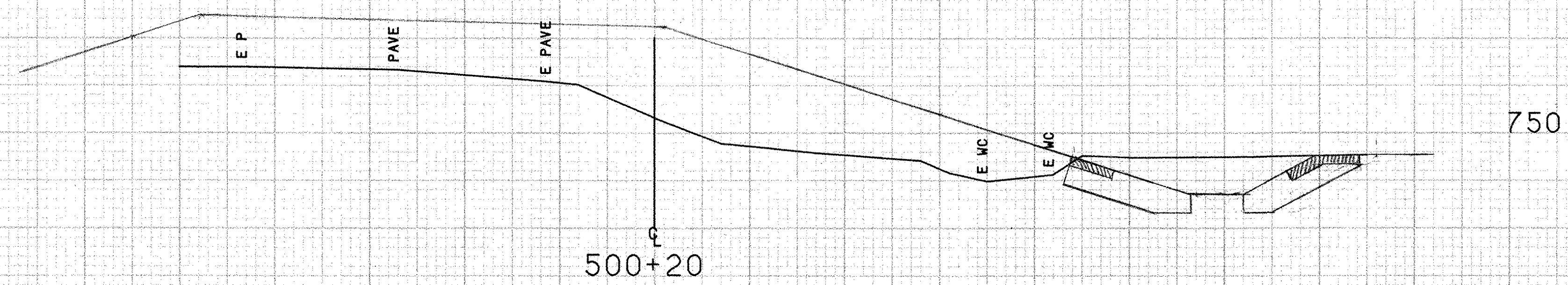
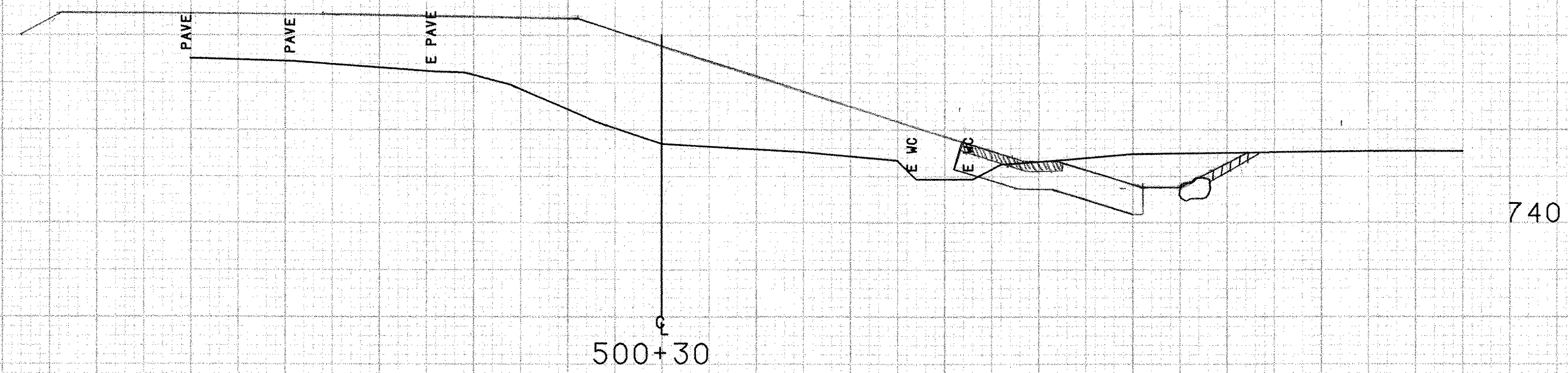
498+75

740

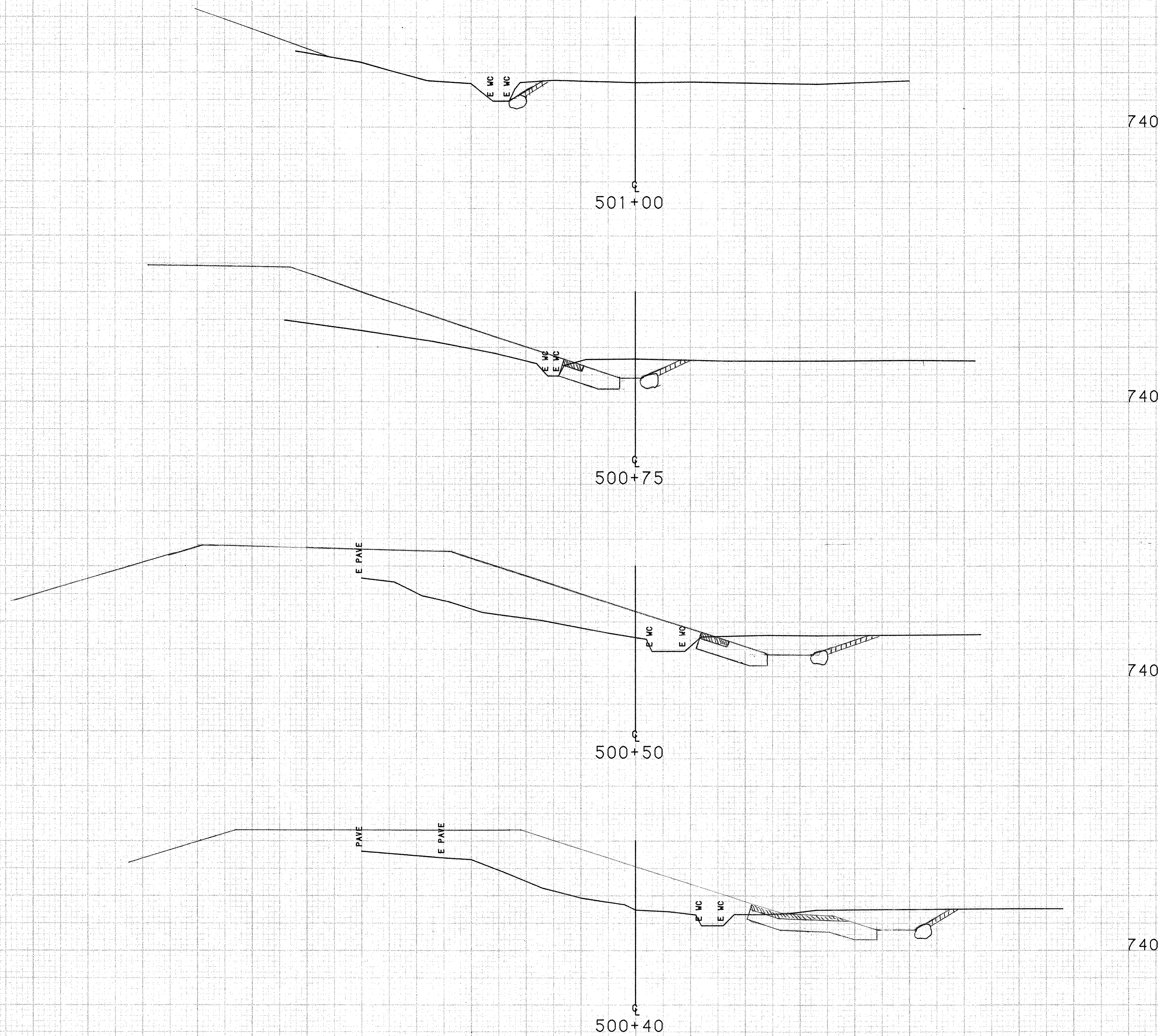
SCALE 10 FEET

FROM STA.	498+75	TO STA.	499+50
PROJECT NAME	DERBY CHAN		
NO.	TH28910		
SURVEYED BY	L. NOYES		
SHEET	25	OF	29 SHEETS
		PLOTTED	05/16/89
			03/89 0219





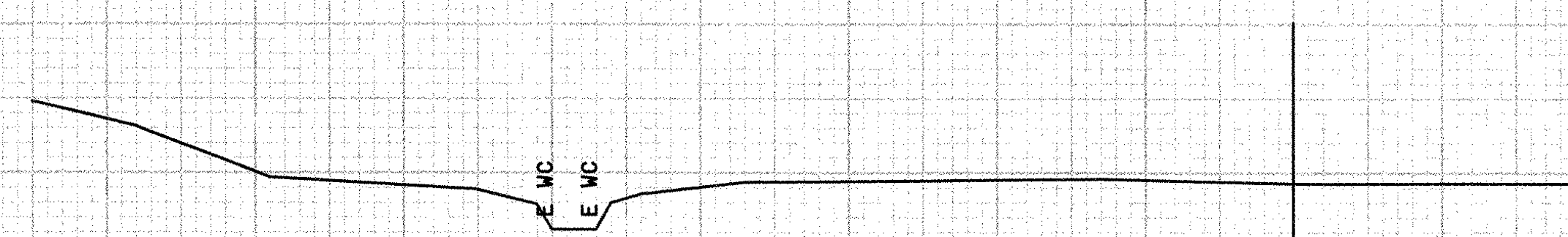
STA. 500+06 END STRUCTURE EXCAVATION
END GRANULAR BACKFILL FOR
STRUCTURES
END GRANULAR BORROW



STA. 501+00
 END UNCLASSIFIED CHANNEL EXCAV.
 END STONE FILL, TYPE II
 END RIPRAP, HEAVY TYPE
 END GRUBBING MATERIAL

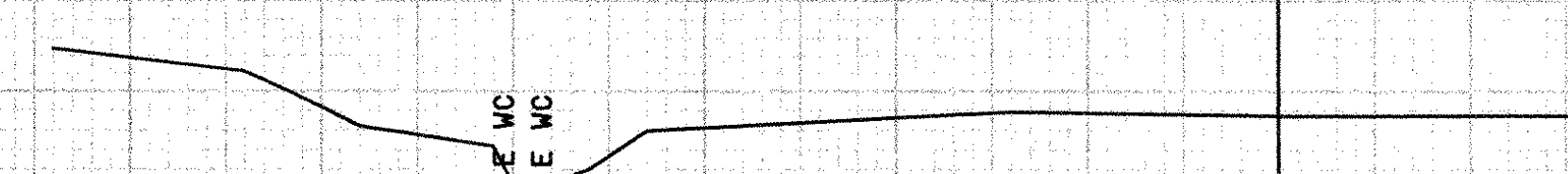
FROM STA.	500+40	TO STA.	501+00
PROJECT NAME	DERBY CHAN		
NO.	TH28910		
SURVEYED BY	L. NOYES	PLOTTED	05/16/89
SHEET	28	OF	29 SHEETS

SCALE 10 FEET



501+50

740



501+25

740

SCALE 10 FEET

FROM STA.	501+25	TO STA.	501+50
PROJECT NAME	DERBY CHAN		
NO.	TH28910		
SURVEYED BY	L. NOYES		
SHEET 29	OF 29	SHEETS	
			PLOTTED 05/16/89
			03/89 0219