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SCB-D6-73	1-3-79R

Date **MAY 31 1985**

H.A. Manosh Corp
Contractor
Howard A. Manosh
Signature
President
Title
Jana C. Compton
Transportation Secretary's
Signature

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**



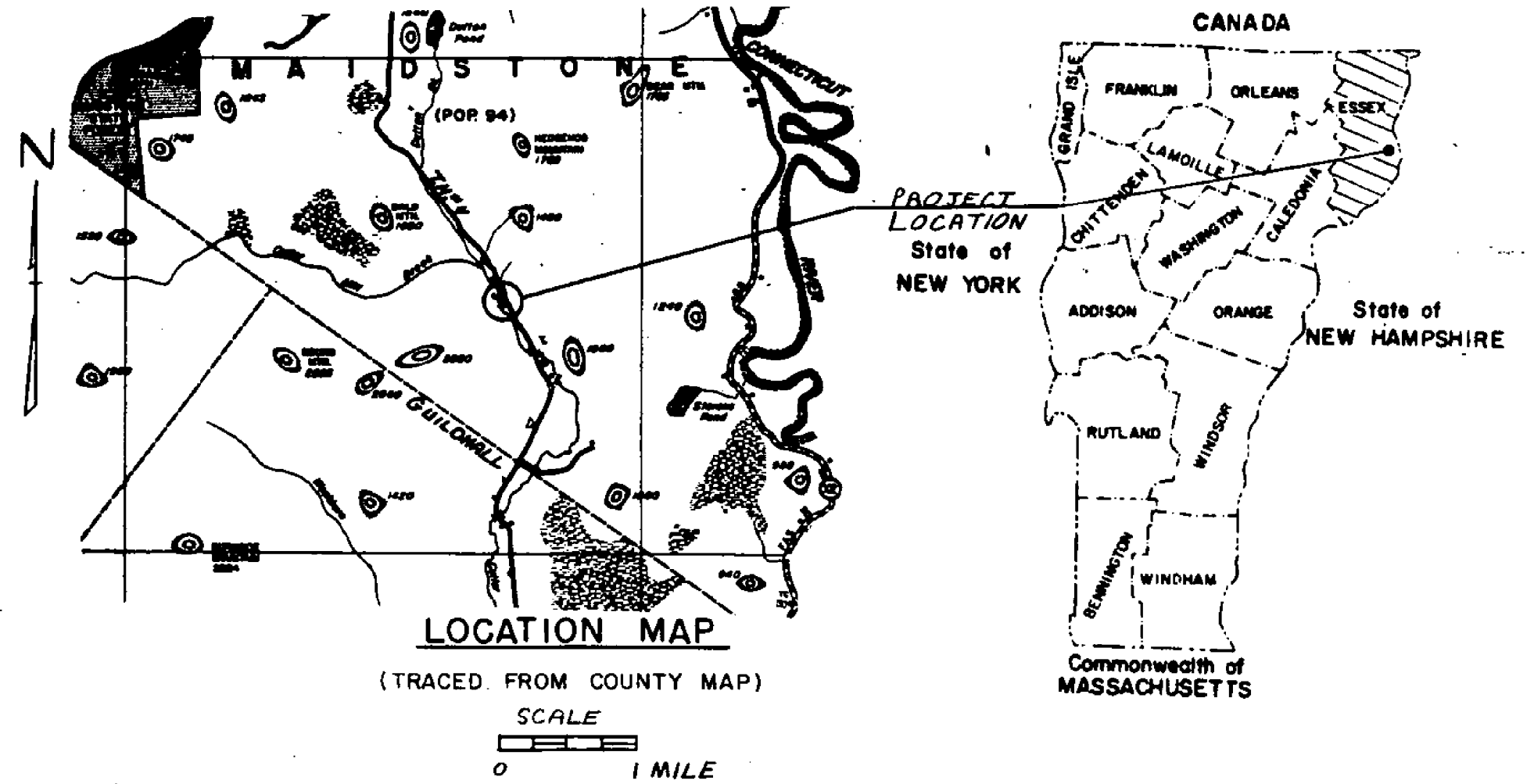
**PROPOSED IMPROVEMENT
BRIDGE PROJECT**

TOWN OF MAIDSTONE
COUNTY OF ESSEX

ROUTE NO: T.H. 5 CLASS 3 BRIDGE NO: 6

PROJECT LOCATION: BEGINNING AT THE INTERSECTION OF T.H.# 4 AND T.H.# 5, APPROXIMATELY 3.5 MILES NORTH OF THE INTERSECTION OF T.H.# 4 AND VT. RT. 102, AND EXTENDING 0.038 MILES ALONG T.H.# 5.
PROJECT DESCRIPTION: CONSTRUCTION OF A NEW CONCRETE SLAB BRIDGE AND RELATED ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE:	25.09 FEET
LENGTH OF T.H.# 5 ROADWAY:	174.91 FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	FEET
LENGTH OF T.H.# 5:	200.00 FEET
LENGTH OF T.H.# 4:	250.00 FEET
TOTAL LENGTH OF PROJECT:	450.00 FEET

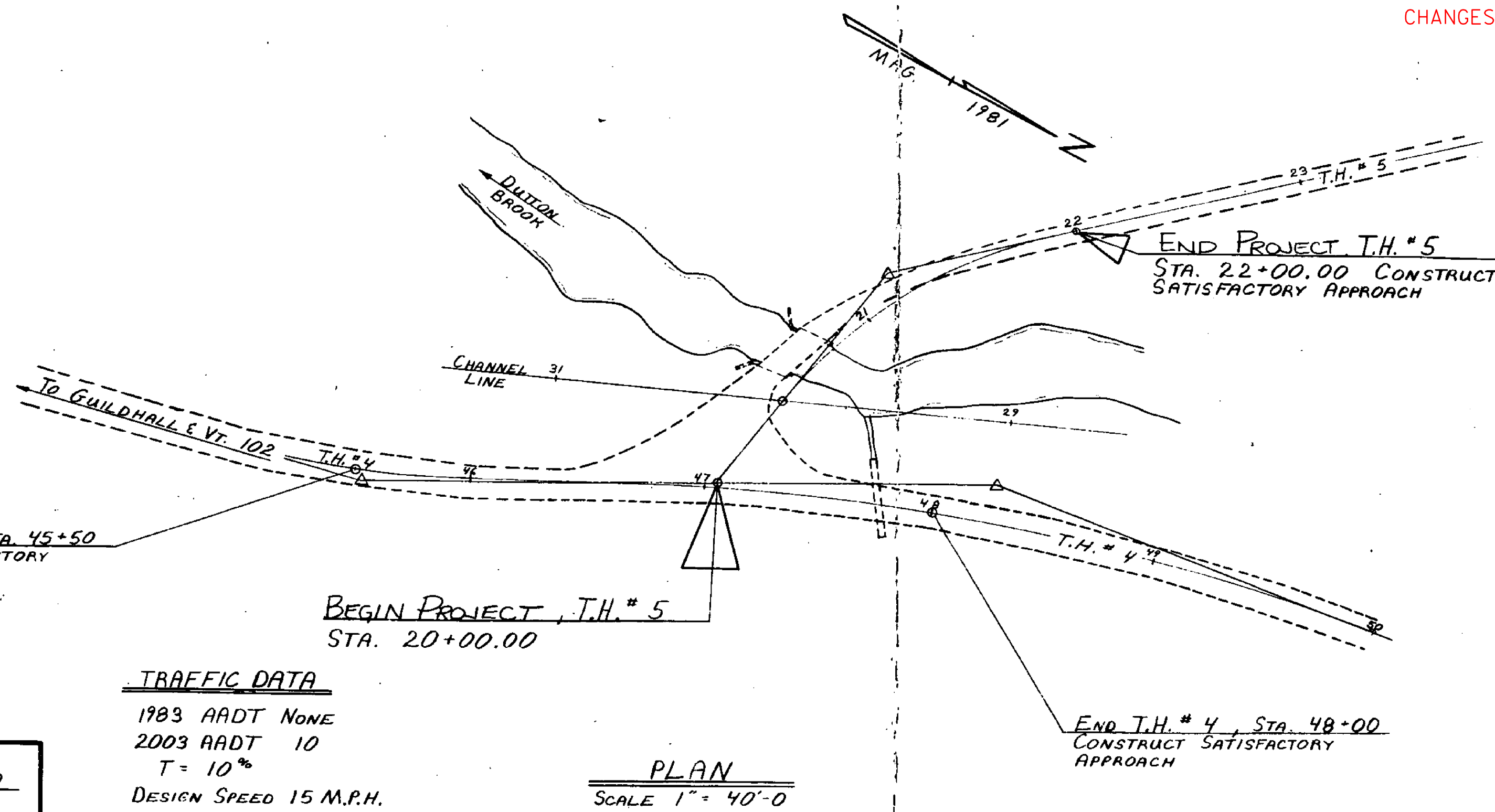
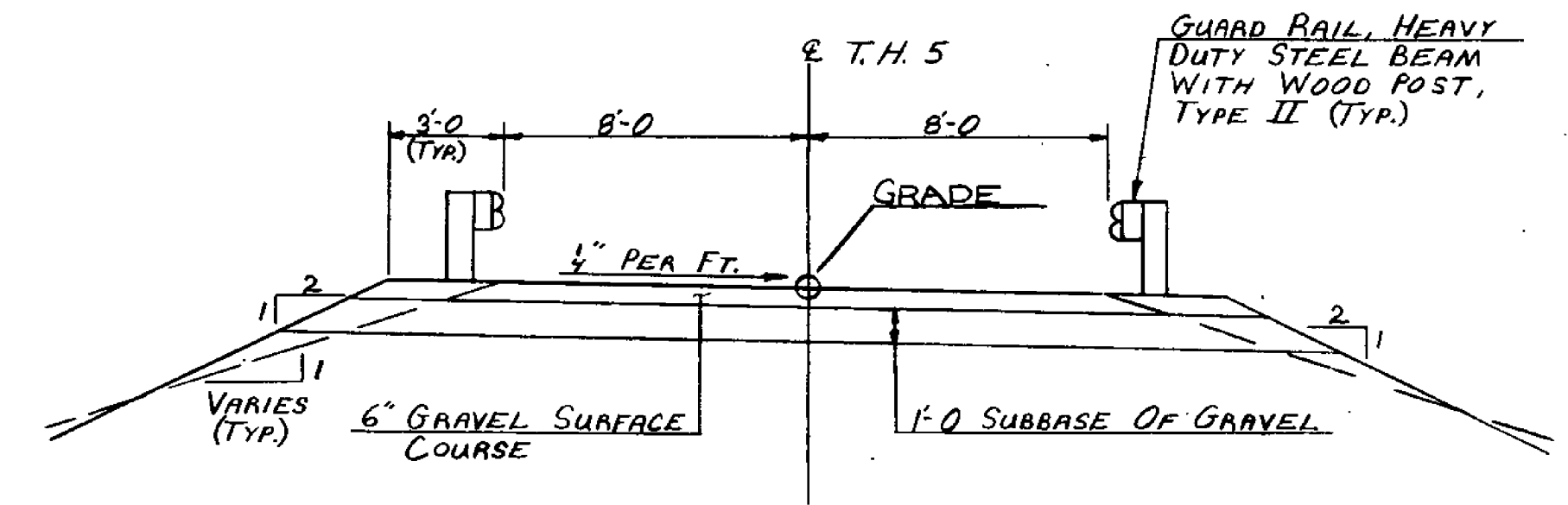
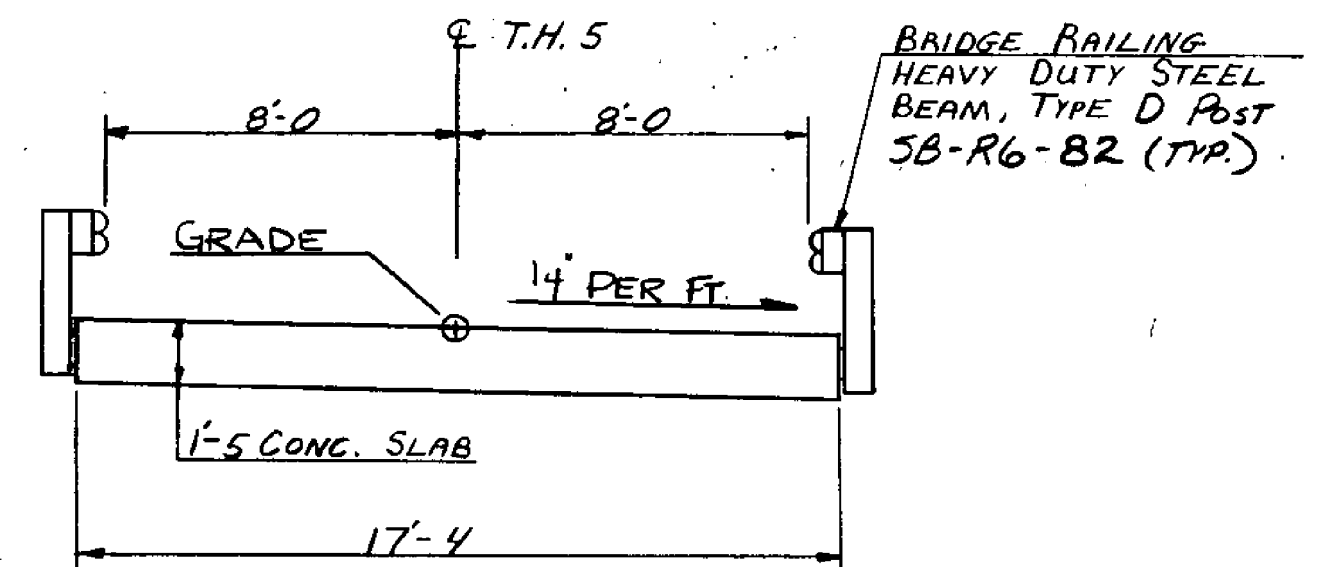


GENERAL NOTES

1. THE GENERAL NOTE PERTAINING TO SPECIFICATIONS, MATERIALS, AND CONSTRUCTION IS SHOWN ON STANDARD DRAWING SCB-D1-75. OTHER GENERAL NOTES ON THE STANDARD, NOT OTHERWISE SHOWN OR MODIFIED ON THESE PLANS, ARE NOTES 6, 7, AND 15.
2. TRAFFIC SHALL BE MAINTAINED ON TOWN HIGHWAY # 4 UNDER THE ITEM "MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS". THE COST OF ALL REQUIRED SIGNS AND BARRICADES SHALL BE INCLUDED IN THIS ITEM. TOWN HIGHWAY # 5 MAY REMAIN CLOSED TO TRAFFIC UNTIL COMPLETION OF THE PROJECT.
3. ALL IN-STREAM CONSTRUCTION SHALL BE CONDUCTED DURING THE PERIOD FROM JUNE 1 TO OCTOBER 1.
4. THE EXISTING BRIDGE SHALL BE REMOVED UNDER THE ITEM "REMOVAL OF STRUCTURE". THIS INCLUDES THE SUPERSTRUCTURE AND PORTIONS OF THE SUBSTRUCTURE NOT REMOVED UNDER THE "STRUCTURE EXCAVATION" AND "UNCLASSIFIED CHANNEL EXCAVATION" LIMITS.
5. TURF ESTABLISHMENT SHALL BE SUBSIDIARY TO ALL OTHER CONTRACT ITEMS.
6. ALL EXTRA REINFORCING STEEL CUT-OFFS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.
8. THE BRIDGE RAILING AND ROADWAY APPROACH RAILING SHALL BE TYPE 4, CORROSION RESISTANT STEEL.

CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.



CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	○---○
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	△
T.O.E OF SLOPE	○

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.

Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED *[Signature]* DATE MAY 11 1985
DIRECTOR OF ENGINEERING AND CONSTRUCTION

PROJECT MAIDSTONE	PROJECT NO. BRZ 1447(4)
SHEET 1 OF 31 SHEETS	

0-10 SJB 7/21/81

EARTHWORK

BRIDGE QUANTITY SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
BRIDGE DIVISION

V.C.	% GRD	STATION	GRADES		CORR. V.C.	DIST.	COMMON EXCAVATION		SUBBASE OF GRAVEL		GRAVEL SURFACE COURSE		EARTH BORROW		
			ON TAN.	ON V.C.			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	
		MAINLINE STA (T.H.# 5)													
		STA 20+00	1007.05	BEGIN PROJECT			5		10		5		0		
		20+07.97	1007.16	EDGE OF T.H.# 4			10		10		5		0		
		20+10	1007.09	1007.09	0.00		15		14		25		12	0	
		+25	1006.55	1006.78	0.23		25		14		45		20	0	
		+30	1006.37	1006.78	0.41		5		32		35		16	0	
		+50	1007.29	1007.29	0.00		20		20		45		15	0	
						8.82	12		9		30		15	0	
		BEGIN BRIDGE													
		20+50.82	1007.69				30		22		11		0		
		20+83.91	1008.84				0		22		11		15	6	
		21+00	1009.57			16.09	0		26		14		7	5	
		+25	1010.71			25	0		27		25		11	21	
		+50	1011.86	1011.86	0.00		25		2		27		11	25	
		+75	1013.00	1013.44	0.44		5		19		24		10	19	
		22+00	1015.90	1015.90	0.00		25		30		21		9	25	
						25	30		30		21		9	25	
						30	20		20		10		9	12	
		STA 22+00 END PROJECT. CONSTRUCT SATISFACTORY APPROACH													
							109		178		80		83		
							1		2		-		7		
							T.H.#5 TOTAL		110		180		80	90	
		T.H.# 4 STA													
		STA 45+50	1006.65	MATCH EXISTING GRADE			50		0		0		2	0	
		45+00	1006.40				0		0		9		10	0	
		+50	1006.77	1006.77	0.00		0		10		9		17	0	
		46+00	1007.13	1007.05	-0.08		0		15		9		17	0	
		+50	1007.50	1007.15	-0.35		0		20		9		17	0	
		+75	1007.33	1007.13	-0.20		0		22		19		13	0	
		47+00	1007.16	1007.07	-0.09		0		10		15		11	0	
		+50	1006.82	1006.82	-0.00		0		15		23		13	0	
		48+00	1006.47				0		3		17		3	0	
		+50	1006.34				0		3		17		3	0	
		49+00	1006.26	MATCH EXISTING GRADE			50		0		0		0	0	
		STA 48+00 END T.H.# 4, CONSTRUCT SATISFACTORY APPROACH													
							0		138		101		0		
							-		2		9		-		
							T.H.#1		0		140		110	0	
							T.H.#5		110		180		80	90	
							ADJUST TOTAL		110		320		190	90	
		EARTHWORK SUMMARY													
		PLANIMETERED FILL	90 x 1.15				104 (REQ'D.)								
		MATERIAL AVAILABLE FOR FILL:													
		COMMON EXCAVATION	110 x 1				110							536	
		UNCL. CHANNEL EX.	350 x 0.10				210							104	
		STRUCTURE EXCAV.	300 x 0.60				216							432	
			TOTAL				536							WASTE 432	

NO.	ITEM	UNIT	QUANTITY BREAKDOWN							TOTAL	FINAL
			SLAB	ABUT. #1	ABUT. #2	T.H.#5	T.H.#4	CHANNEL			
202.25	REMOVAL OF STRUCTURE	EACH	1							1	
203.15	COMMON EXCAVATION	C.Y.				110				110	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	C.Y.						350		350	
204.25	STRUCTURE EXCAVATION	C.Y.		140	220					360	
204.30	GRANULAR BACKFILL FOR STRUCTURES	C.Y.		120	160					280	
301.15	SUBBASE OF GRAVEL	C.Y.				180	140			320	
401.10	GRAVEL SURFACE COURSE	C.Y.				80	110			190	
501.25	CONCRETE, CLASS B	C.Y.	25	56	98					179	
507.15	REINFORCING STEEL	L.B.	3,630	6,680	8,490					18,800	
514.10	WATER REPELLENT	GAL.	5	4	5					14	
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	HR					8			8	
613.12	STONE FILL, TYPE III	C.Y.						310		310	
617.35	BRIDGE RAILING, HEAVY DUTY STEEL BEAM, TYPE D POST (TYPE 4 BEAM RAIL)	L.F.	64							64	
621.38	GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POST, TYPE II (TYPE 4 BEAM RAIL)	L.F.				181				181	
621.70	ANCHOR FOR STEEL BEAM GUARD RAIL WITH STEEL OR WOOD POSTS @ OPENINGS	EACH				2				2	
635.10	MOBILIZATION	L.S.				1				1	
637.10	MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS	L.S.					1			1	

BRIDGE (S) AT STATION (S) 20+71
LOCATION (S) T.H.5 OVER DUTTON BROOK

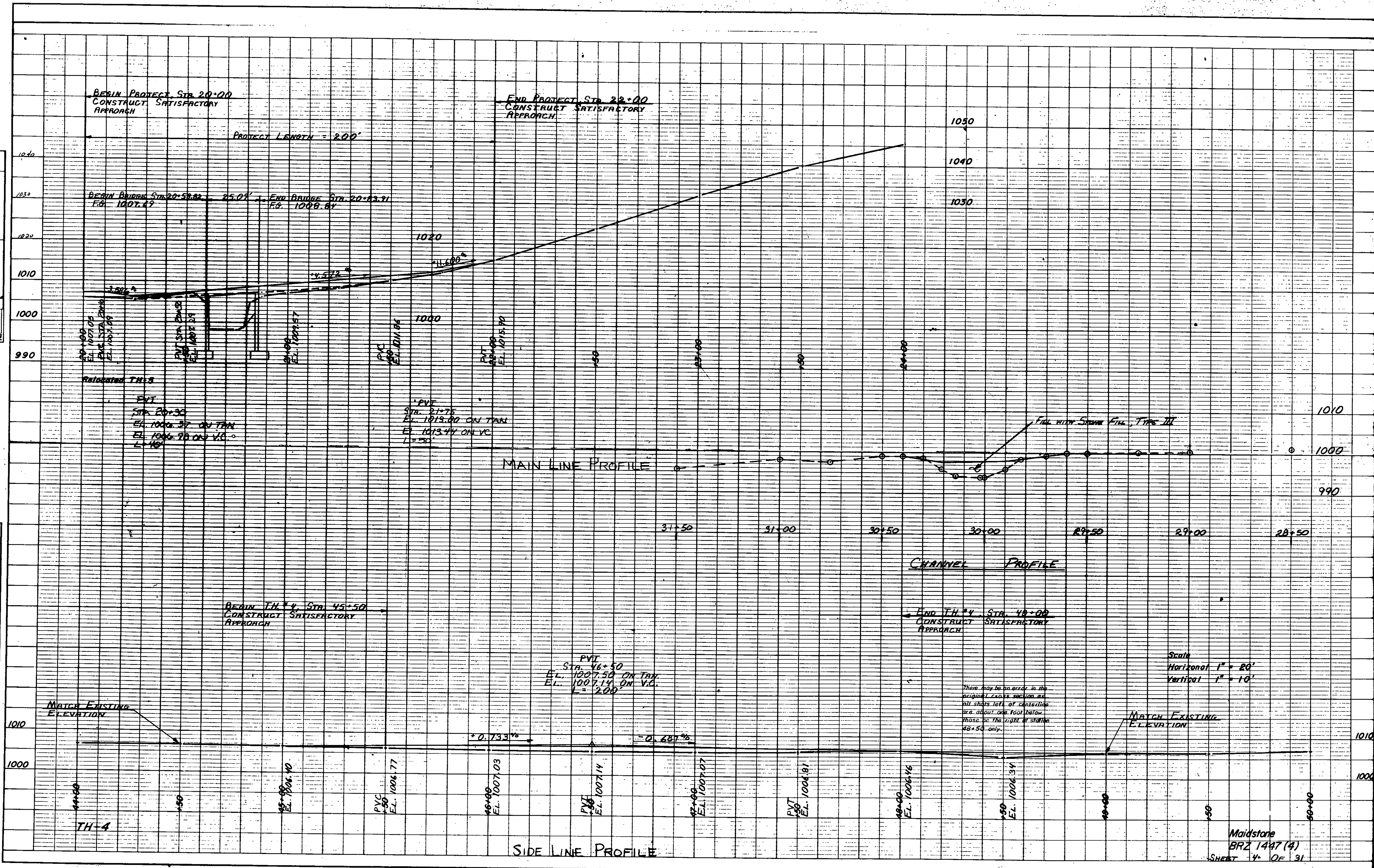
Prepared by: D.E. WILLEY
Checked by: M.L. FERGUSON
SUPERVISOR: R.S. HAUPT

MAIDSTONE
BR.# 6

PROJECT NO. BRZ 1447 (4)
SHEET NO. 2 OF 31

DATE: _____
 BY: _____
 PLAN
 NOTE BOOK
 NO. _____

DATE: _____
 BY: _____
 PROFILE
 NOTE BOOK
 NO. _____



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

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1	OXFORD PAPER COMPANY	5	TH4 47+27 LT. TH5 20+40 LT. TH5 22+10 RT.	TH4 48+50 LT. TH5 21+88 LT. TH5 22+70 RT.	0.16 A±		CONST. EASE. (T) (0.02 A±) CONST. EASE. (T) (180 S.E.±)	WD	12-12-84	MAIDSTONE	13	488	(700 S.E.±)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
		<i>Myles to Structures 2-21-85</i>			

MADE BY: D.E.M. DATE 8-10-84
CHECKED BY: F.J.M. DATE 8-10-84

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
ⓓ - DEMOLITION OR REMOVAL
Ⓜ - WATER SOURCES

————— PRESENT R.O.W.
/// ——— /// TAKING WITHOUT ACCESS
/// P ——— L /// TAKING WITHOUT ACCESS ALONG PROPERTY LINES
————— TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND
——— CONST. EASE. ——— CONST. EASEMENT
——— SR ——— SR ——— SLOPE RIGHTS
——— P ——— P ——— PROPERTY LINE
—△—△—△— TOP OF CUT
—○—○—○— TOE OF SLOPE

APPROVED S. W. Quinn DATE 8/13/87
CHIEF OF PLANS & TITLES

PROJECT MAIDSTONE
NO. BRZ1447(4)
SHEET 5 OF 31

Note (From survey notes)
 Town of Maidstone's Road, Commissioner
 told survey party that in the spring of
 1980, 1981 the bridge backed up due to
 ice at present bridge site. Ice went down
 road leaving 3 foot wide existing road.
 Road Commissioner
 Harold J. Nelli
 Tel 676-712

Bridge Data

Single Span
 I-Beam, plank deck
 Log abutments
 Roadway Length 24.7'
 Width 12'
 Span 21'
 Span 90° to abut 19'
 Clear spans
 Upstream 8.5'
 Downstream 10.5'
 I-Beams
 4-8" x 4" x 28'
 3-10" x 5" x 28'

**BRIDGE RAILING, H.D. STEEL
 BEAM, TYPE C**

STA. 20+54 ~ 20+84 LT.
 STA. 20+58 ~ 20+91 RT.

**Relocated T.H. 5 Curve 1
 Curve Data**

Δ 39°-14' Rt.
 D 28°
 R 204.63'
 T 72.93'
 L 140.12'
 E 12.61'
 Banking

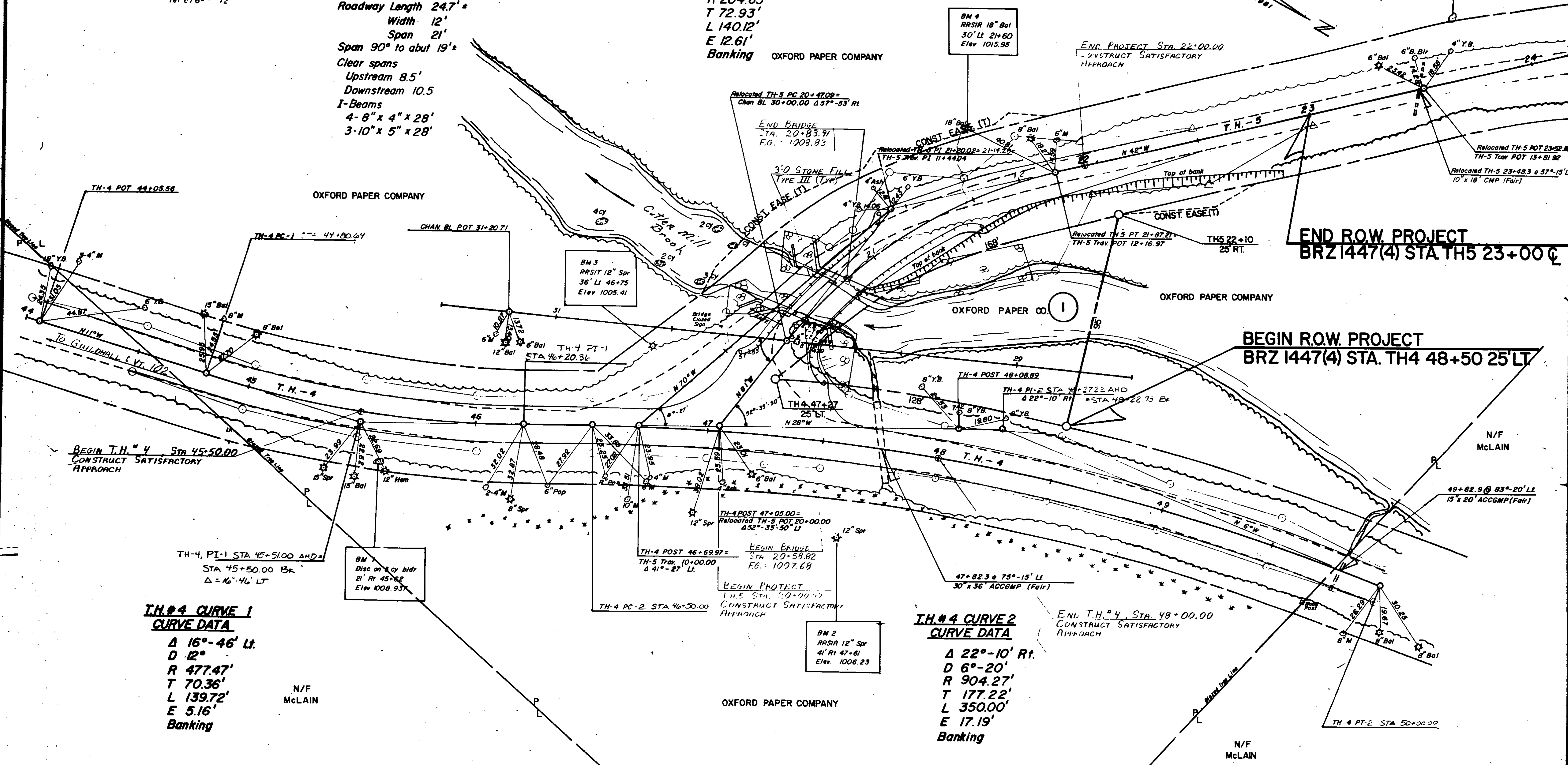
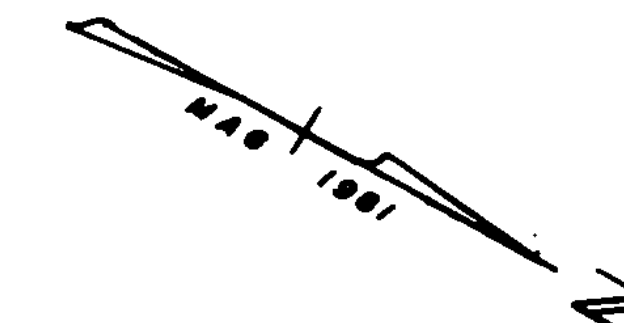
OXFORD PAPER COMPANY

**GUARD RAIL, H.D. STEEL BEAM
 WITH WOOD POST, TYPE II**

STA. 20+29 ~ 20+54 LT.
 STA. 20+84 ~ 21+14 LT.
 STA. 20+41 ~ 20+58 RT.
 STA. 20+91 ~ 21+50 RT.

BM 4
 RRSIR 18" Bal
 30' Lt. 21+60
 Elev 1015.95

BM 5
 RRSIR 10" Map
 28' Lt. 23+67
 Elev 1048.44



**END R.O.W. PROJECT
 BRZ 1447(4) STA TH5 23+00 C**

**BEGIN R.O.W. PROJECT
 BRZ 1447(4) STA TH4 48+50 25' LT.**

**T.H.#4 CURVE 1
 CURVE DATA**

Δ 16°-46' Lt.
 D 12°
 R 477.47'
 T 70.36'
 L 139.72'
 E 5.16'
 Banking

N/F
 McLain

**T.H.#4 CURVE 2
 CURVE DATA**

Δ 22°-10' Rt.
 D 6°-20'
 R 904.27'
 T 177.22'
 L 350.00'
 E 17.19'
 Banking

N/F
 McLain

DATUM
 VERTICAL NGVD 1929
 HORIZONTAL N/A

SCALE 1" = 20'

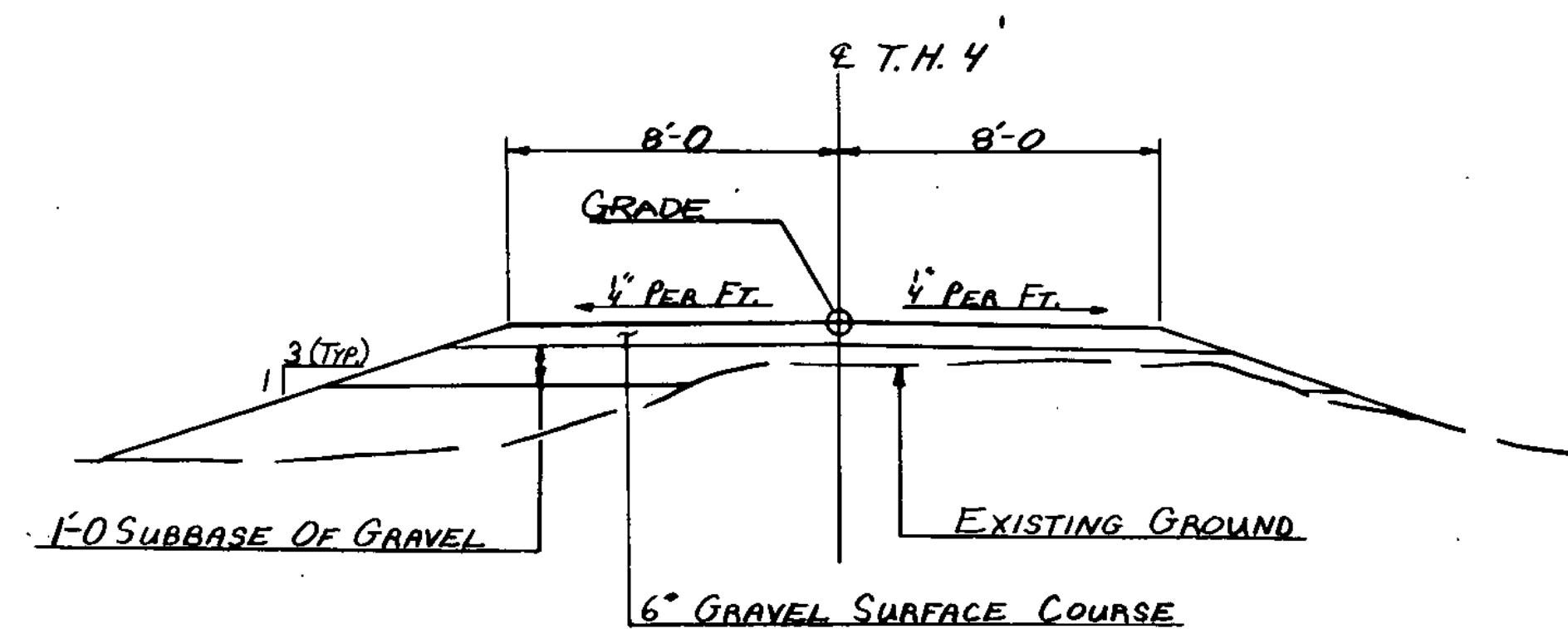
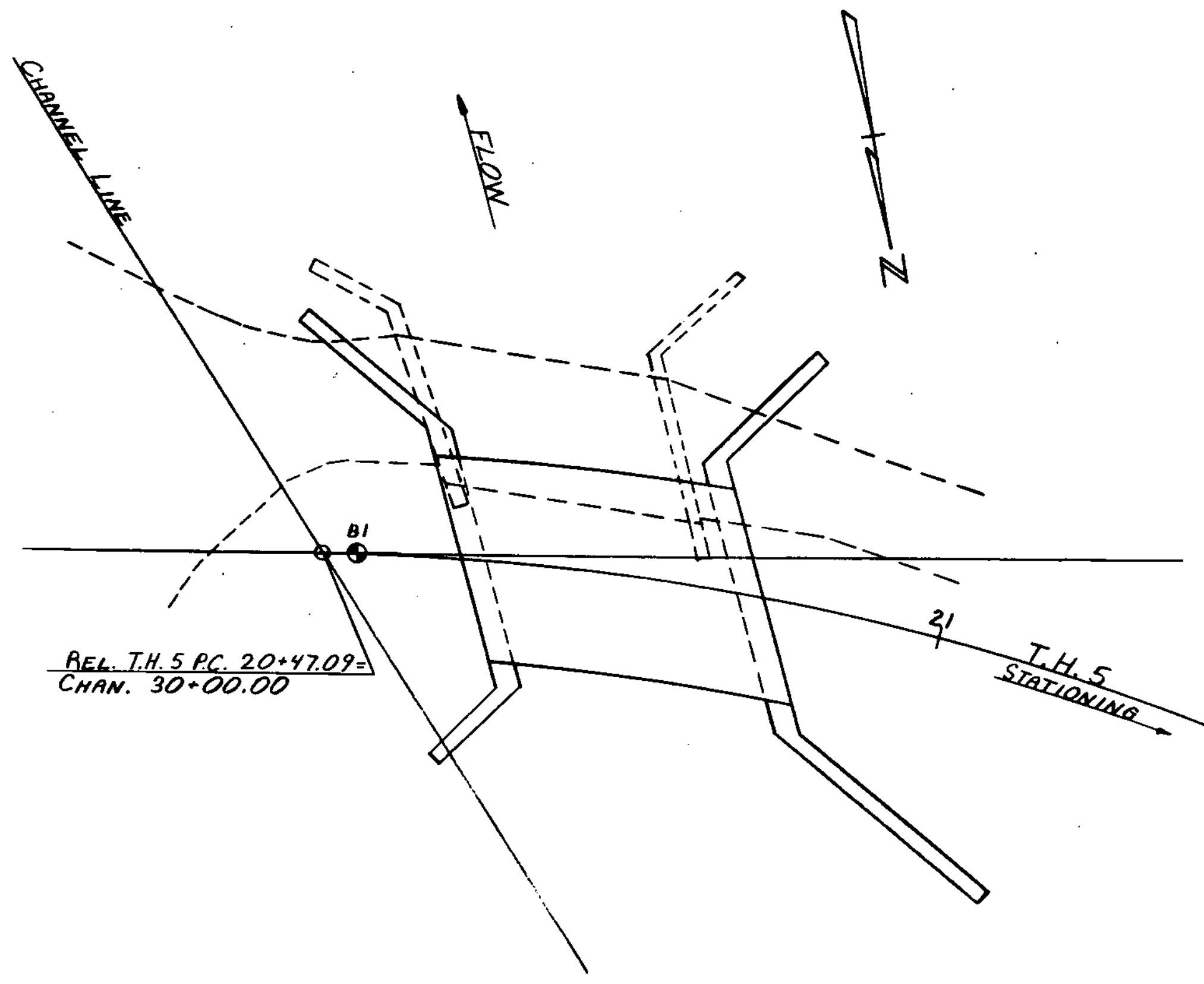
SURVEYED BY Fall DATE 7-81
 DRAWN BY DeCell DATE 12-81
 TRACED BY DeCell DATE 1-82
 MAIDSTONE
 BRZ 1447(4)
 SHEET 6 OF 31

BORING NO. B-1

DEPTH	BLOWS ON CASING	LABORATORY CLASSIFICATION OF SOIL	MOISTURE	COLOR
0		No Sample		
10	R	No Sample		
	81	No Sample	W	Gr
	57	A-1-b Gravelly Sand	Wht	
20	R	A-4 Sandy Silt		
		A-4 Sandy Silt	M	Gr
		A-1-b Gravelly Sand		
30		Hole stopped at 24.5' in H.P.		

ELEV. 1006.7

BOTTOM OF FOOTING EL. 993.00



BORING	STATION	OFFSET
B1	20+50	0

BORING NOMENCLATURE

- STANDARD PENETRATION BORINGS
 SAMPLER OUTSIDE DIAMETER 2"
 SAMPLER INSIDE DIAMETER 1 3/8"
 WEIGHT OF HAMMER 140 LBS
 HAMMER FALL 30"
- ⊕ AUGER BORINGS
- ⊙ ROD SOUNDINGS
- UP UNDISTURBED PISTON SAMPLE
- VS FIELD VANE SHEAR SAMPLE

GENERAL NOTES

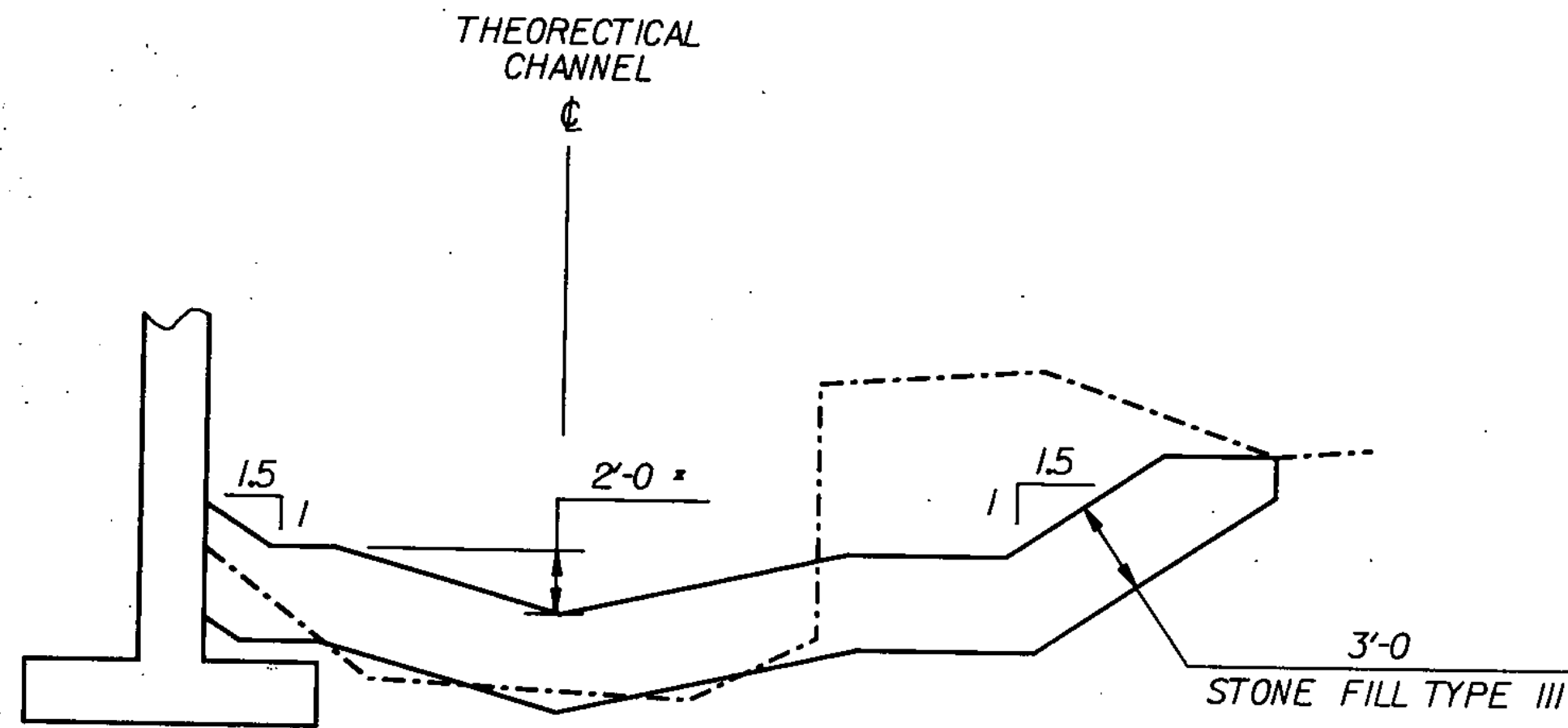
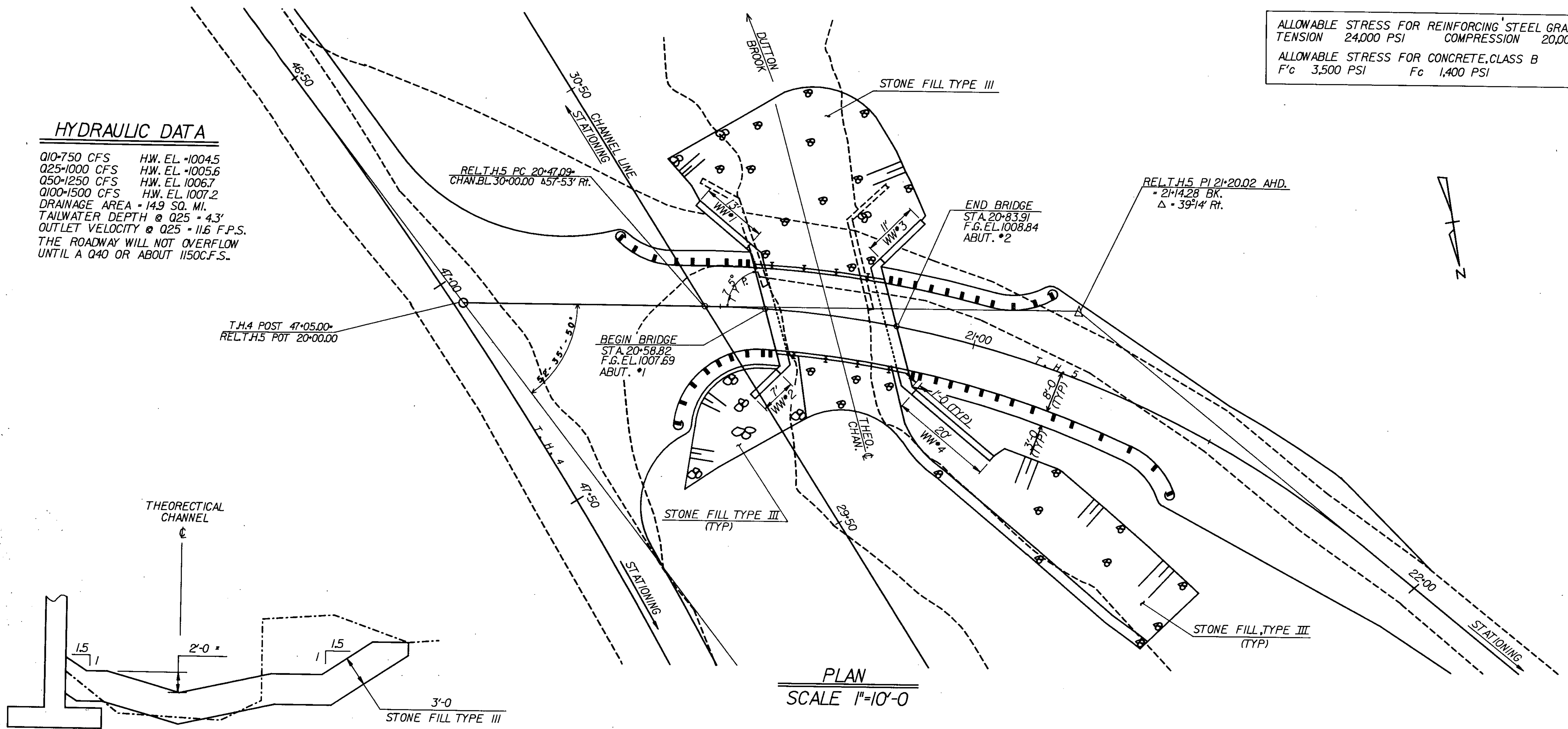
- THE SUBSURFACE EXPLORATIONS SHOWN HEREON WERE MADE BETWEEN 11-3-82 AND 11-3-82 BY THE VERMONT AGENCY OF TRANSPORTATION.
- SOIL AND ROCK (WHERE ENCOUNTERED) CLASSIFICATION, PROPERTIES AND DESCRIPTIONS ARE BASED ON ENGINEERING INTERPRETATION OF AVAILABLE SUBSURFACE INFORMATION BY THE VERMONT AGENCY OF TRANSPORTATION AND MAY NOT NECESSARILY REFLECT ACTUAL VARIATIONS IN SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED BETWEEN INDIVIDUAL BORING OR SAMPLE LOCATIONS.
 - OBSERVED WATER LEVELS AND/OR WATER CONDITIONS INDICATED ARE AS RECORDED AT THE TIME OF EXPLORATION AND MAY VARY ACCORDING TO THE PREVAILING RAINFALL, METHODS OF EXPLORATION AND OTHER FACTORS.
 - SOUND ENGINEERING JUDGEMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED HEREON. ANALYSIS AND INTERPRETATION OF SUBSURFACE DATA WAS PERFORMED AND INTENDED FOR AGENCY DESIGN AND ESTIMATE PURPOSES ONLY. PRESENTATION OF THE INFORMATION ON THE PLANS OR ELSEWHERE IS FOR THE PURPOSE OF PROVIDING INTENDED USERS WITH ACCESS TO THE SAME DATA AVAILABLE TO THE AGENCY. THE SUBSURFACE INFORMATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATIONS, INDEPENDENT ANALYSIS OR JUDGEMENT OF THE CONTRACTOR.
 - PICTORIAL STRUCTURE DETAILS SHOWN HEREON ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT BE INDICATIVE OF THE FINAL DESIGN CONDITIONS SHOWN IN THE CONTRACT PLANS.

STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
TOWN OF MAIDSTONE	Bridge No. 6
HIGHWAY NO. T.H. 5	Log Sta. Surv. Sta. 20+71
T.H. 5 OVER DUTTON BROOK BORING LOGS	
Designed by G. SPILAK	Drawn by D. WILLEY
Checked by A. ELWOOD date 12-84	Bridge Design Supervisor B.S. HAUPT date 11-83
PROJECT MAIDSTONE	PROJECT NO. BRZ 1447(4)
Bridge Sheet No.	Sheet 7 of 31

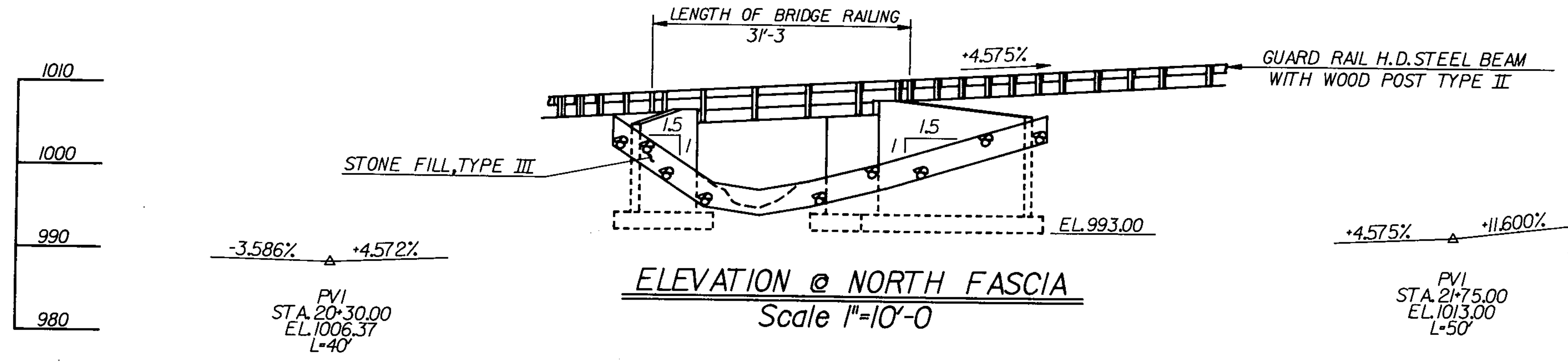
ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60
 TENSION 24,000 PSI COMPRESSION 20,000 PSI
 ALLOWABLE STRESS FOR CONCRETE, CLASS B
 F'c 3,500 PSI Fc 1,400 PSI

HYDRAULIC DATA

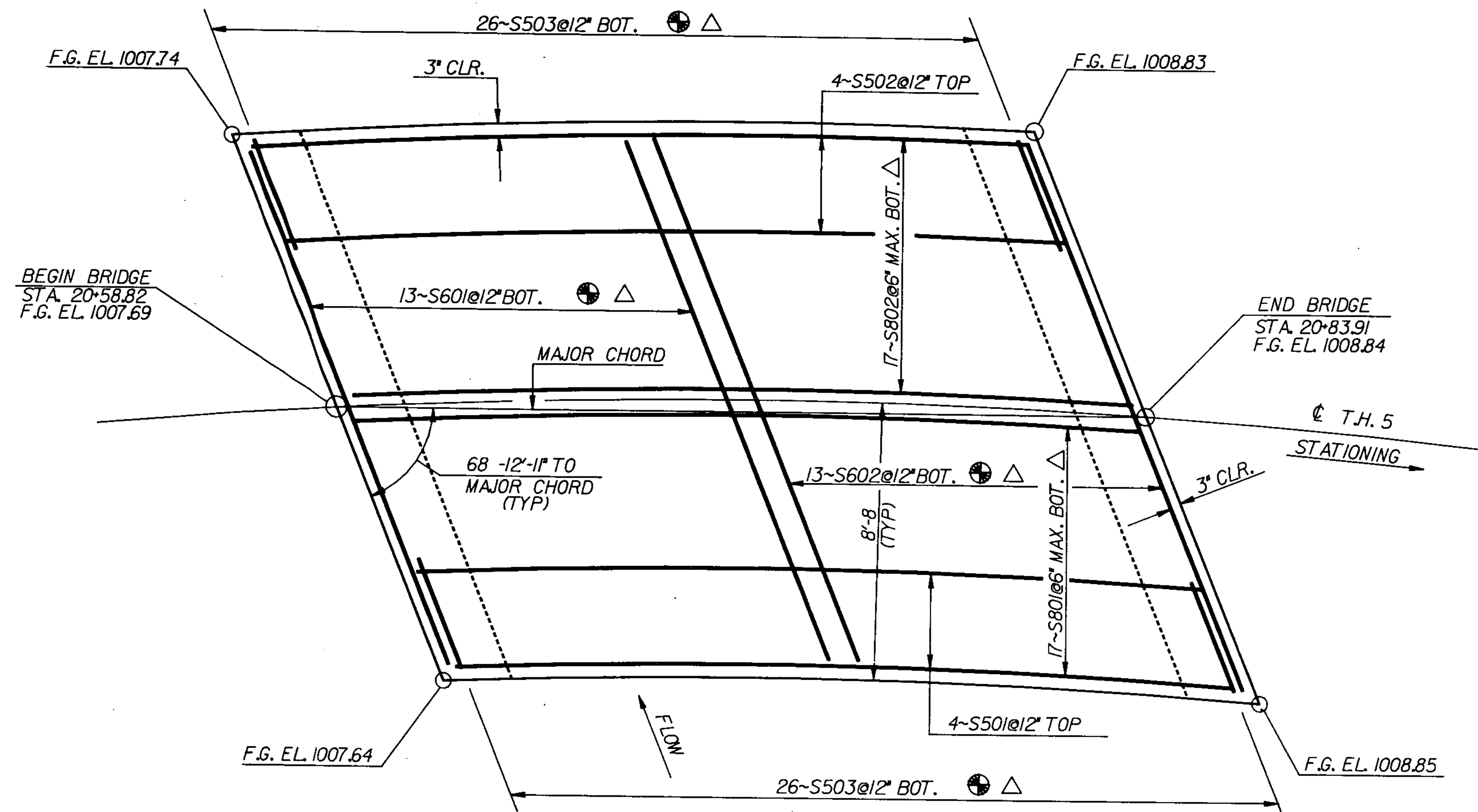
Q10-750 CFS H.W. EL. 1004.5
 Q25-1000 CFS H.W. EL. 1005.6
 Q50-1250 CFS H.W. EL. 1006.7
 Q100-1500 CFS H.W. EL. 1007.2
 DRAINAGE AREA = 14.9 SQ. MI.
 TAILWATER DEPTH @ Q25 = 4.3'
 OUTLET VELOCITY @ Q25 = 11.6 F.P.S.
 THE ROADWAY WILL NOT OVERFLOW
 UNTIL A Q40 OR ABOUT 1150C.F.S.



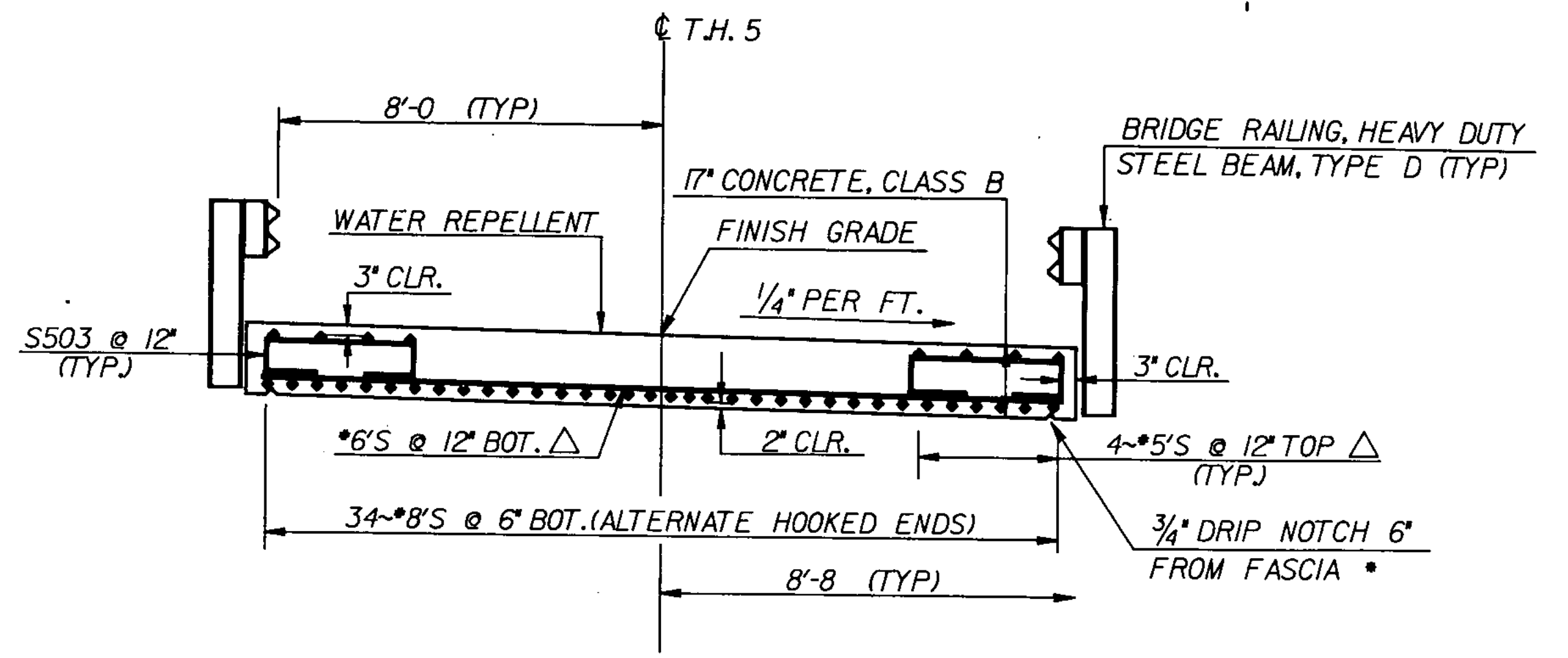
* 2'-0" DIMENSION IS SET @ CHANNEL STATION 30+00. MATCH INTO EXISTING CHANNEL ELEVATION AT STONE FILL LIMITS.



STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
Town of MAIDSTONE	Bridge No. 6
Highway No. T. H. 5	Log Sta. _____ Surv. Sta. _____
PLAN AND ELEVATION	
T.H. 5 OVER DUTTON BROOK	
Designed By G. SPILAK	Drawn By D. WILLEY
Checked By J. POTTER Date 3-84	Bridge Design Supervisor R. S. HAUPT Date 3-84
PROJECT MAIDSTONE	PROJECT NO. BRZ 1447 (4)
L&C. Info. QSAI:30,251630225PE.DGN	
Bridge Sheet No. _____	Sheet 8 of 31



PLAN
SCALE 3/8" = 1'-0"



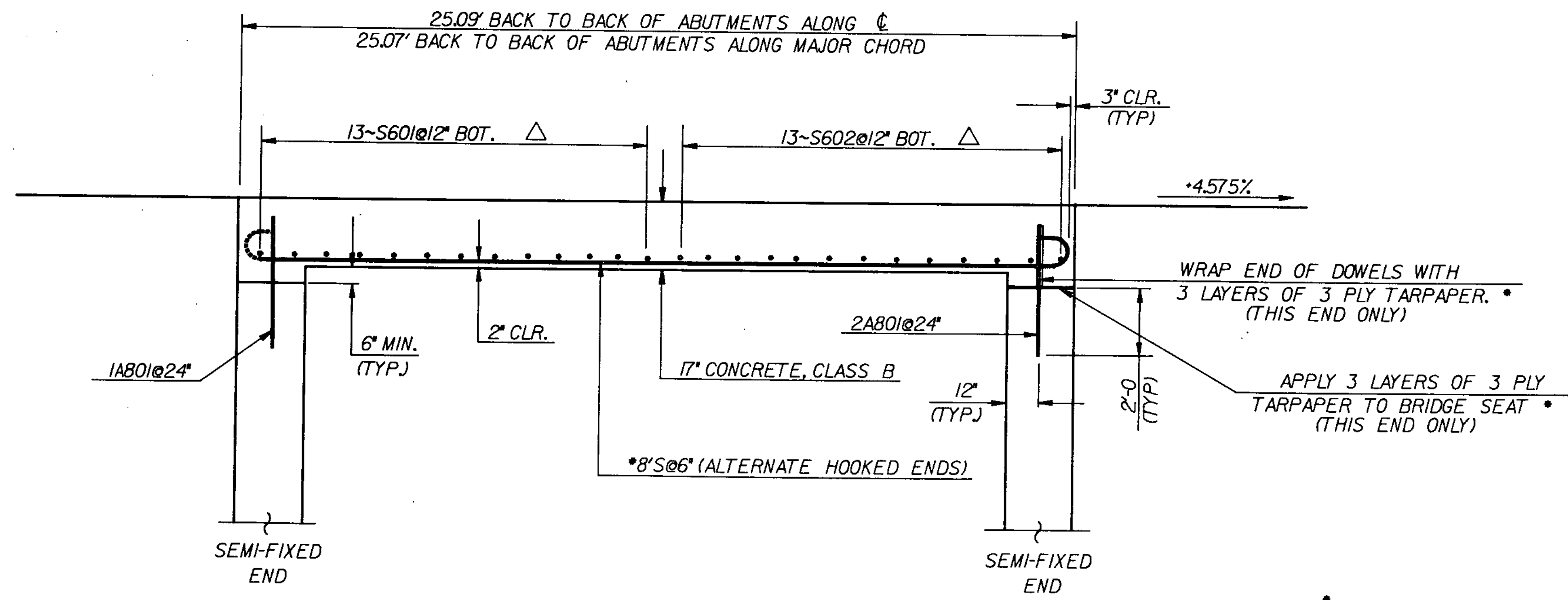
TYPICAL SECTION
SCALE 3/8" = 1'-0"

* STOP DRIP NOTCHES 3' FROM FACE OF ABUTMENTS.

NOTES

1. ALL LONGITUDINAL REINFORCING STEEL SHALL BE PLACED AS NEAR AS PRACTICAL TO MATCH THE CURVE.
2. THE CONCRETE DECK SHALL BE BROOM FINISHED.

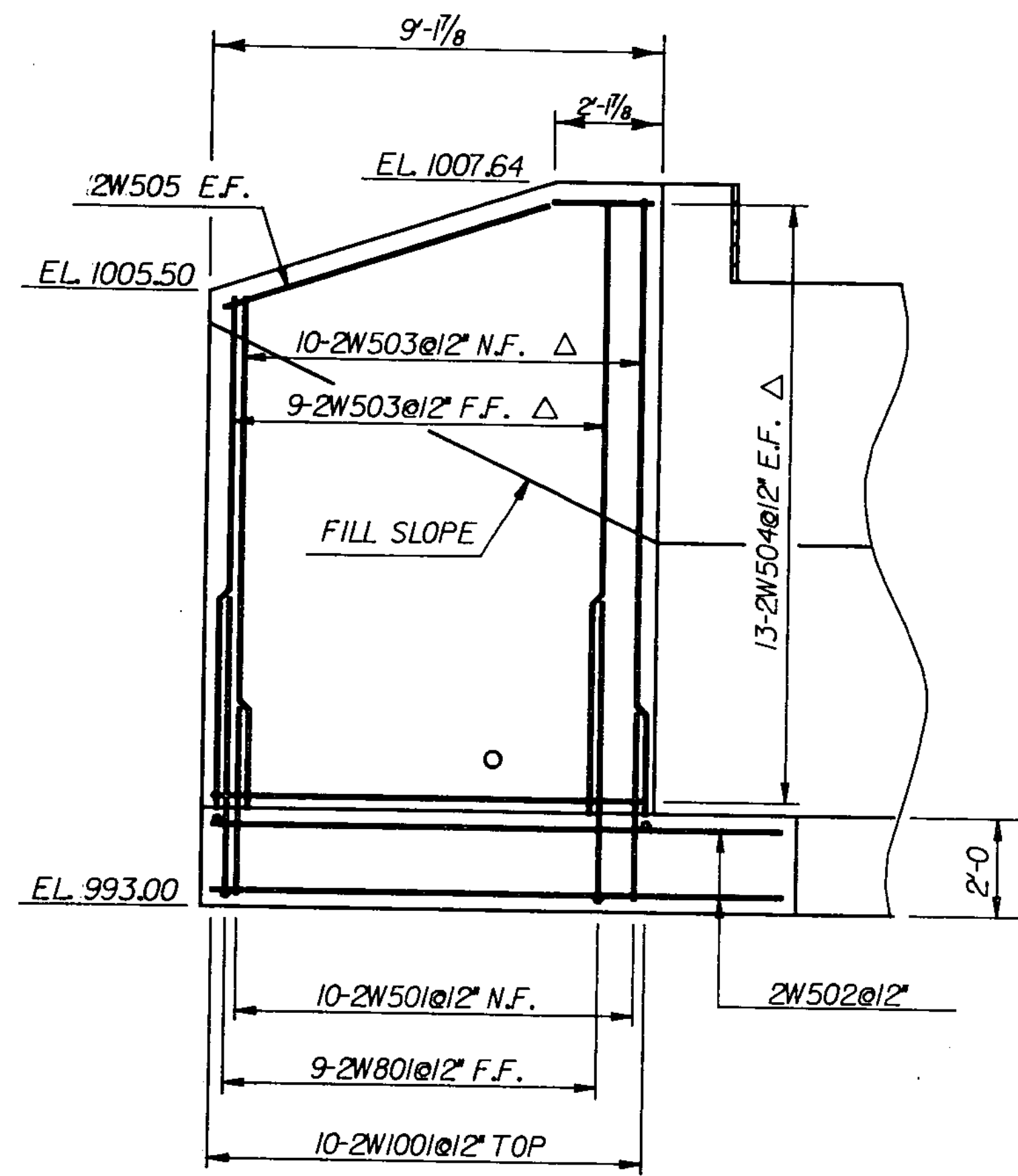
Δ - INDICATES CUT TO FIT IN FIELD.
⊙ - DISTANCE MEASURED ALONG MAJOR CHORD.



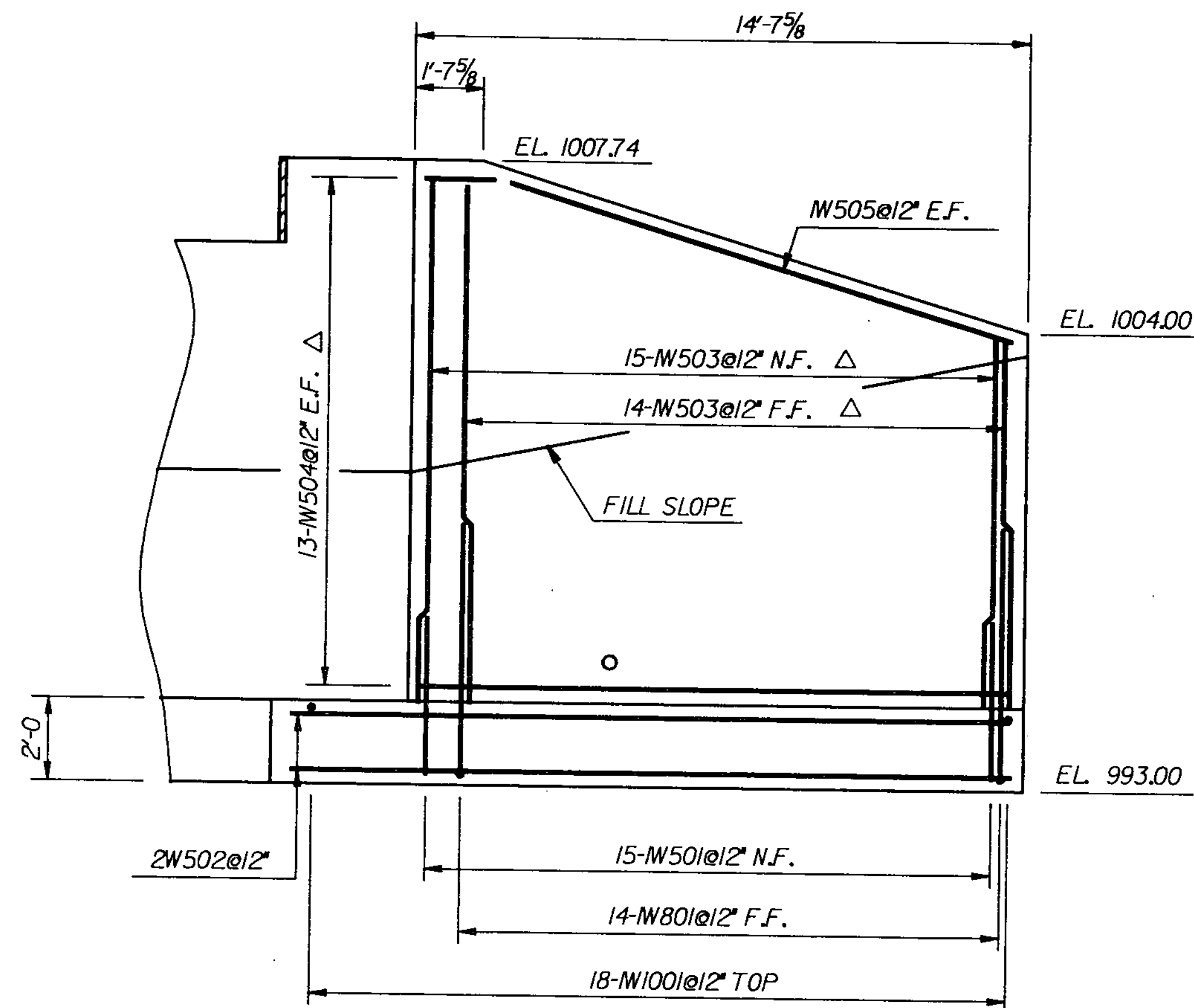
ELEVATION @ C/L
SCALE 3/8" = 1'-0"

* PAYMENT TO BE INCLUDED IN THE UNIT PRICE FOR CONCRETE, CLASS B.

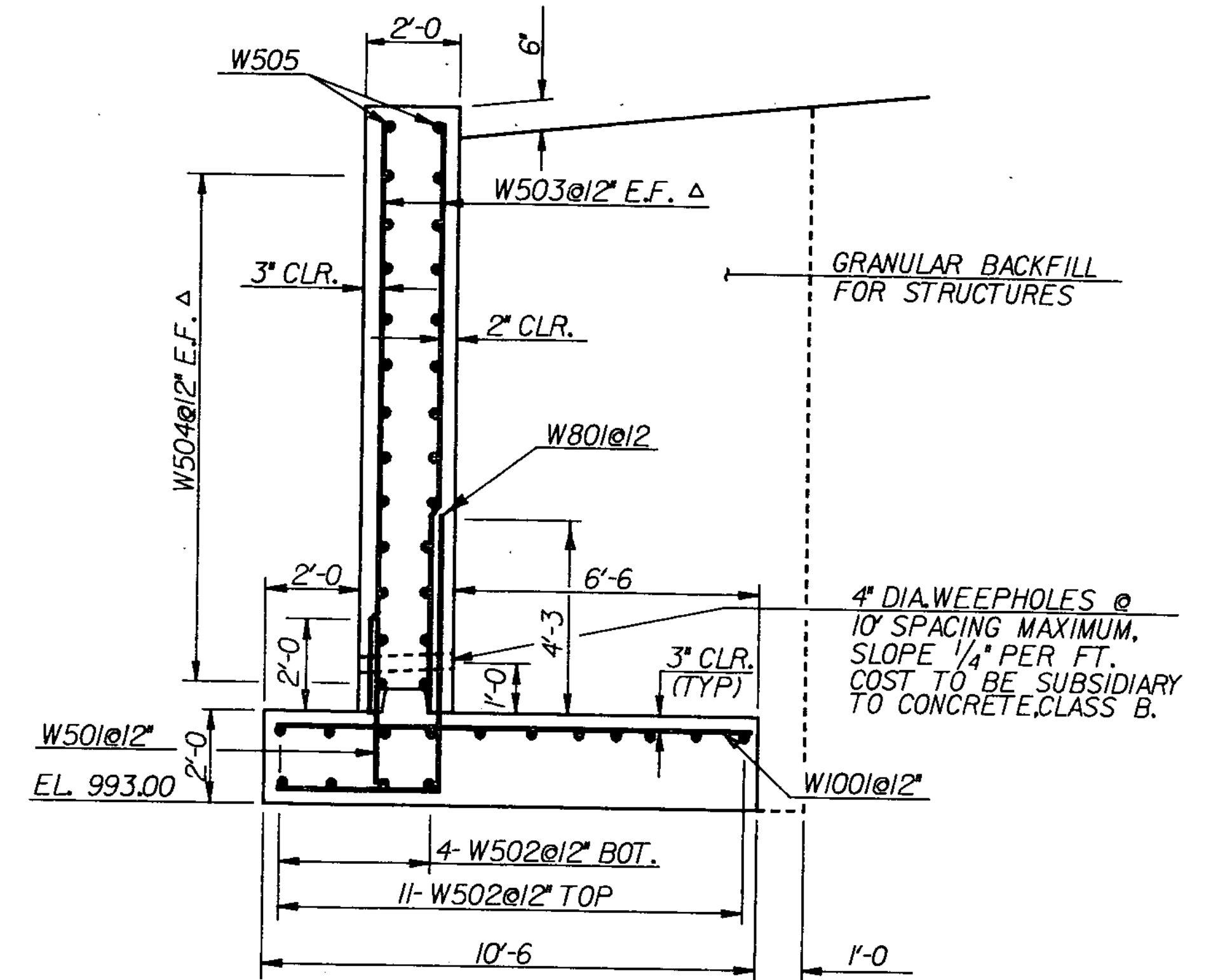
STATE OF VERMONT			
AGENCY OF TRANSPORTATION			
Town of	MAIDSTONE	Bridge No.	6
Highway No.	T.H. 5	Log Sta.	
		Surv. Sta.	
T.H. 5 OVER DUTTON BROOK			
SLAB DETAILS			
Designed By	D. C. WILLEY	Drawn By	D. C. WILLEY
Checked By	A. ELWOOD	Bridge Design Supervisor	R. S. HAUPT
Date	12-84	Date	1-85
PROJECT	MAIDSTONE	PROJECT NO.	BRZ 1447 (4)
LC.C. Info.	QSAIF30,25163C225SLB.DGN		
Bridge Sheet No.		Sheet	9 of 31



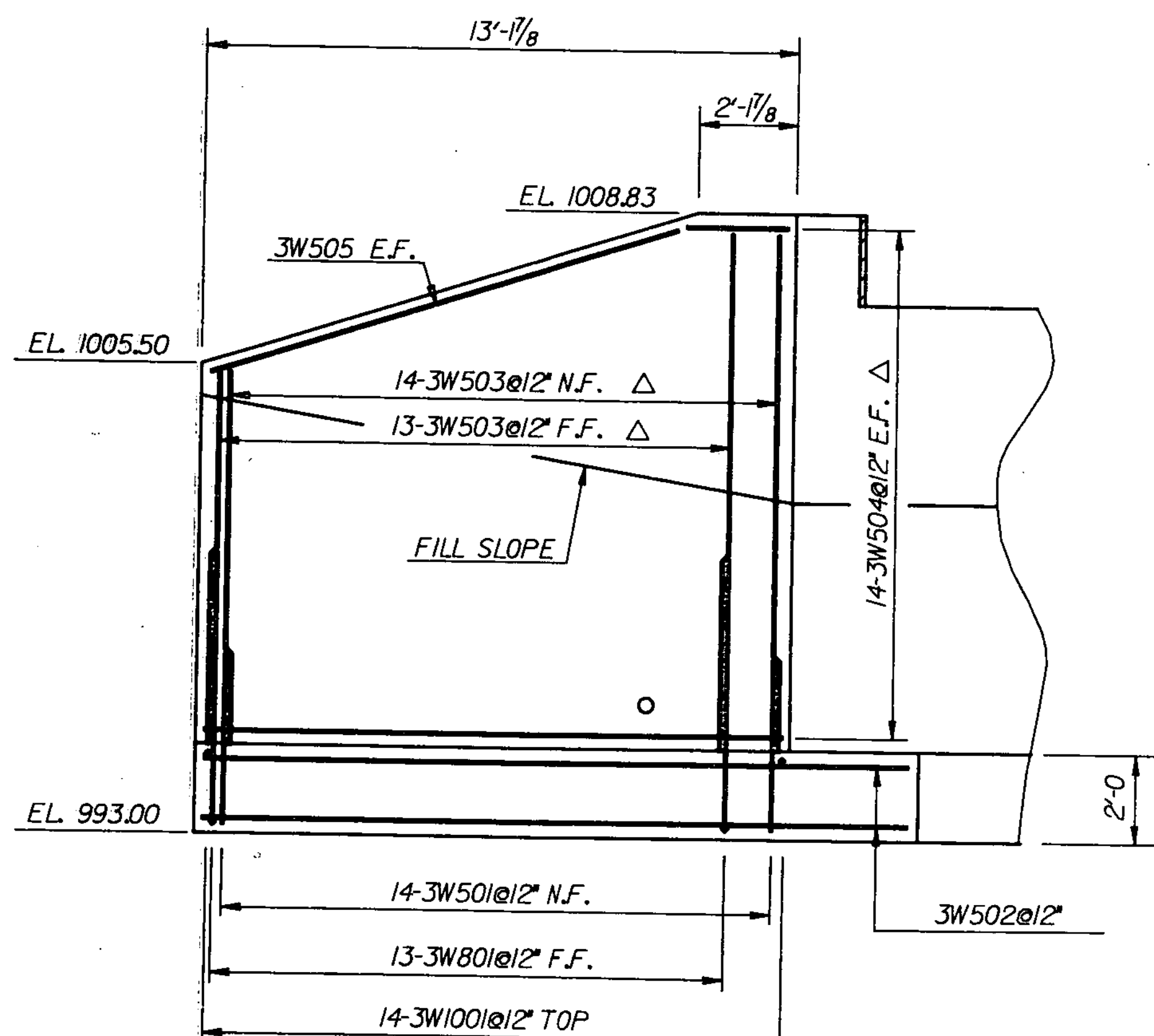
WINGWALL #2 ELEVATION
SCALE 3/8"=1'-0"



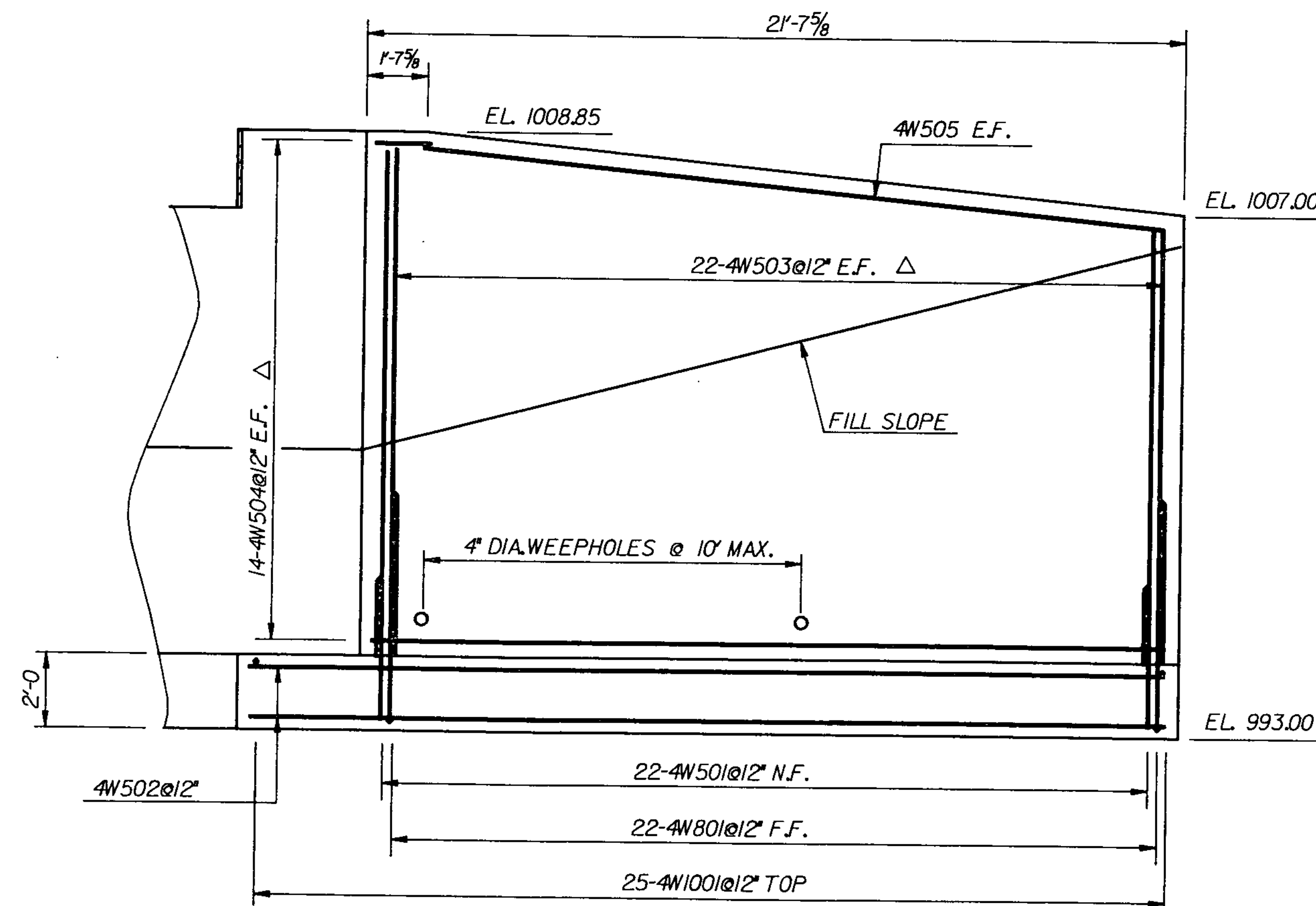
WINGWALL #1 ELEVATION
SCALE 3/8"=1'-0"



WINGWALL TYPICAL SECTION
SCALE 3/8"=1'-0"



WINGWALL #3 ELEVATION
SCALE 3/8"=1'-0"



WINGWALL #4 ELEVATION
SCALE 3/8"=1'-0"

Δ - INDICATES CUT TO FIT IN FIELD.
N.F. - NEAR FACE
F.F. - FAR FACE
E.F. - EACH FACE

STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of MAIDSTONE	Bridge No. 6
Highway No. T.H. 5	Log Sta. 20+70
WINGWALL DETAILS	
T.H. 5 OVER DUTTON BROOK	
Designed By D. C. WILLEY	Drawn By D. C. WILLEY
Checked By A. ELWOOD	Bridge Design Supervisor R. S. HAUPT Date 6-84
PROJECT MAIDSTONE	PROJECT NO. BRZ 1447(4)
LG.C. Info. QSAI.L30.25J63C225AB2.DGN	
Bridge Sheet No.	Sheet 12 of 31

