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STATE OF VERMONT AGENCY OF TRANSPORTATION

Date APR 2 1985

Everett T. Wallace, Inc.

Contractor

Everett T. Wallace

Signature

President

Title

Susan C. Clapper

Transportation Secretary's

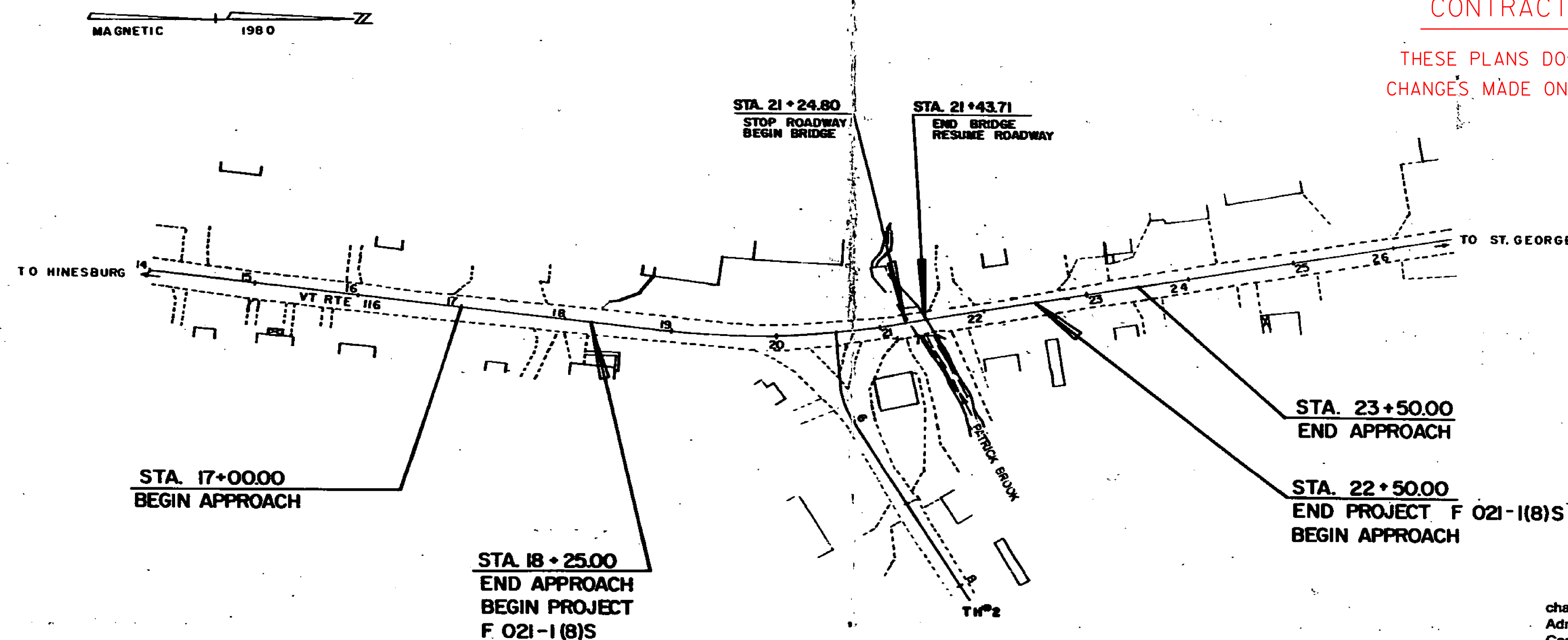
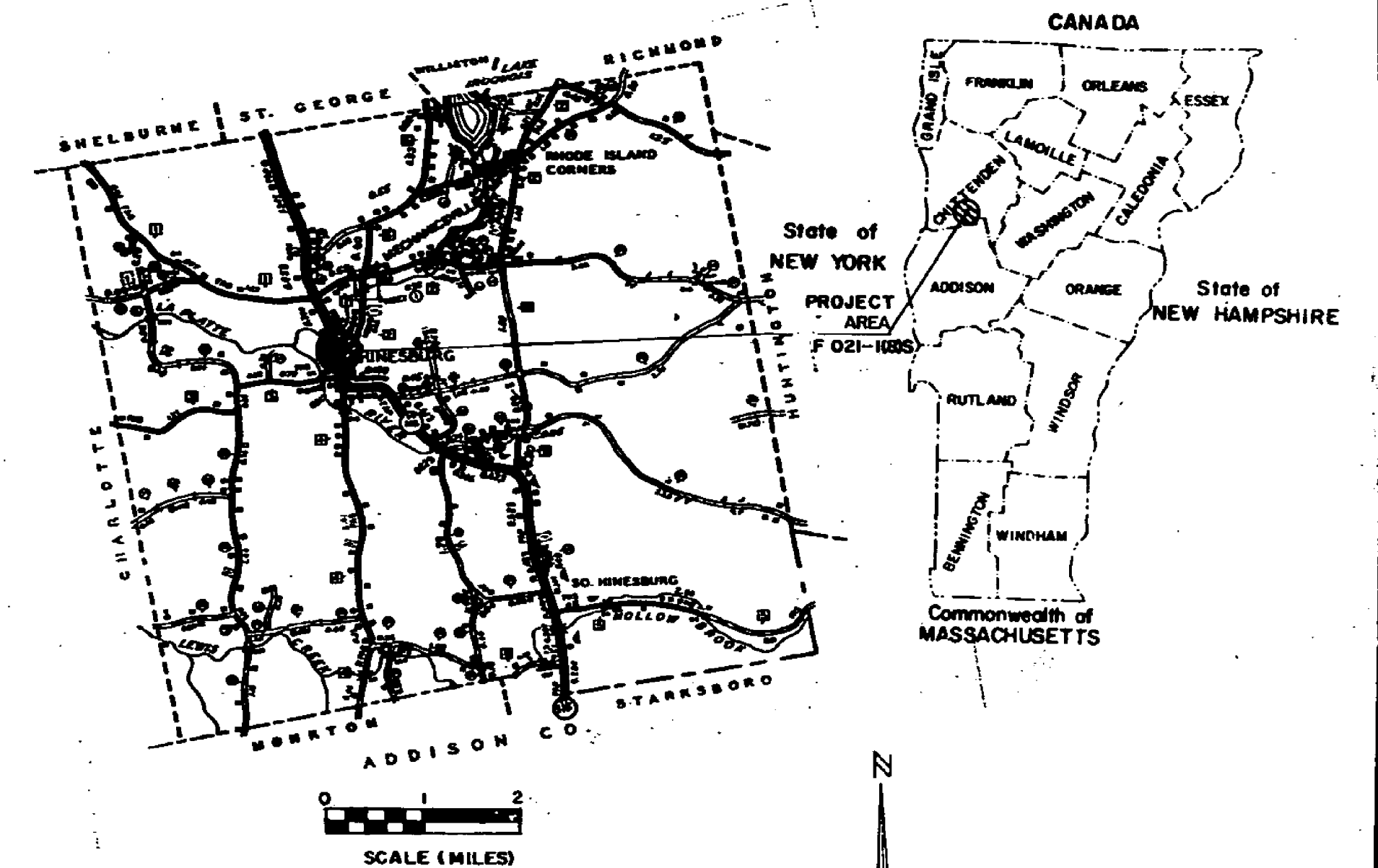
Signature



PROPOSED IMPROVEMENT TOWN OF HINESBURG COUNTY OF CHITTENDEN VERMONT ROUTE 116 (FAP)

IN THE TOWN OF HINESBURG, BEGINNING AT A POINT ON VT. ROUTE 116
WHICH IS 4.721 MILES NORTHERLY OF THE HINESBURG - STARKSBORO
TOWN LINE AND EXTENDING NORTHERLY FOR 0.081 MILES
LENGTH OF BRIDGE 18.91 FEET = 0.004 MILES
LENGTH OF ROADWAY 406.09 FEET = 0.077 MILES
LENGTH OF PROJECT 425.00 FEET = 0.081 MILES

WORK TO BE PERFORMED ON THIS PROJECT INCLUDES GRADING, DRAINAGE, SUBBASE,
PAVEMENT AND BRIDGE REPLACEMENT FOR A STATE HIGHWAY ON EXISTING ALIGNMENT.



CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

TRAFFIC DATA	
1985 ADT	5910
2005 ADT	7990
2005 DMV	970
D	70%
T	5%
V	35 MPH

CONVENTIONAL SIGNS

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

DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A

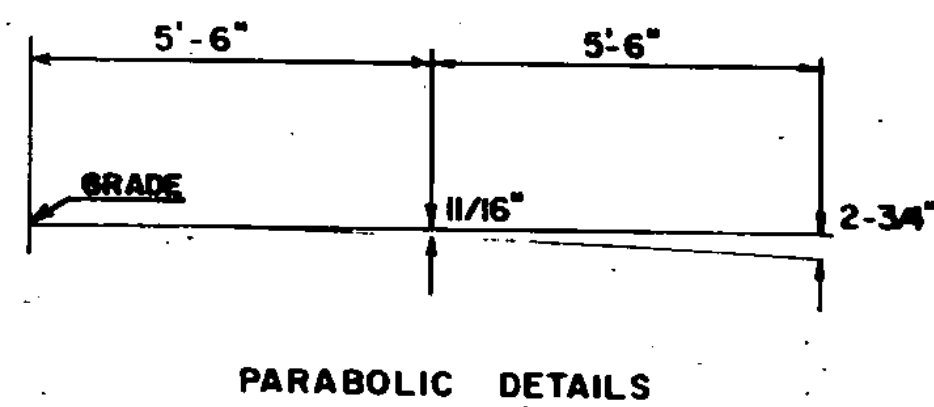
0 100 200
SCALE 1" = 80'

PROJECT PROCESSED UNDER SECONDARY ROAD PLAN

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED <u>[Signature]</u>	DATE <u>1-22-85</u>
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION	
FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
PROJECT F NR 021-1(8)S	
SHEET 1 OF 76 SHEETS	

D-10

SRS 12/17/70



TYPICAL SECTIONS

3" BITUMINOUS CONCRETE PAVEMENT, 1 1/4" III OVER 1 3/4" II (TWO LIFTS)

5" PLANT MIXED BASE COURSE, ITEM 303.25 (TO BE PLACED IN TWO COURSES)

24" SUBBASE OF GRAVEL, ITEM 301.15

1-1/4" SHOULDERS: BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25

0'-24" SAND BORROW (IN CUT) ITEM 203.31

0'-12" GRANULAR BORROW (IN FILL) ITEM 203.32

TO BE PLACED AS NOTED ON THE PLANS
OR AS DIRECTED BY THE ENGINEER

GENERAL NOTES

SEED, ITEM 651.10
TO BE APPLIED AS DIRECTED BY THE ENGINEER

TWT	LBS/A	NAME	PUR%	GERM%
3.33	2	CROWN VETCH	97	75
90.00	30	CREeping RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60	LBS/ACRE		

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

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED)
TO BE PLACED AS DIRECTED BY THE ENGINEER

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 TO BE USED WITH SEED,
ITEM 651.15 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20
TO BE APPLIED AT RATE OF 2 TONS/ACRE
OR AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25
TO BE PLACED ON EARTH SLOPES AT THE RATE OF
2 TONS/ACRE

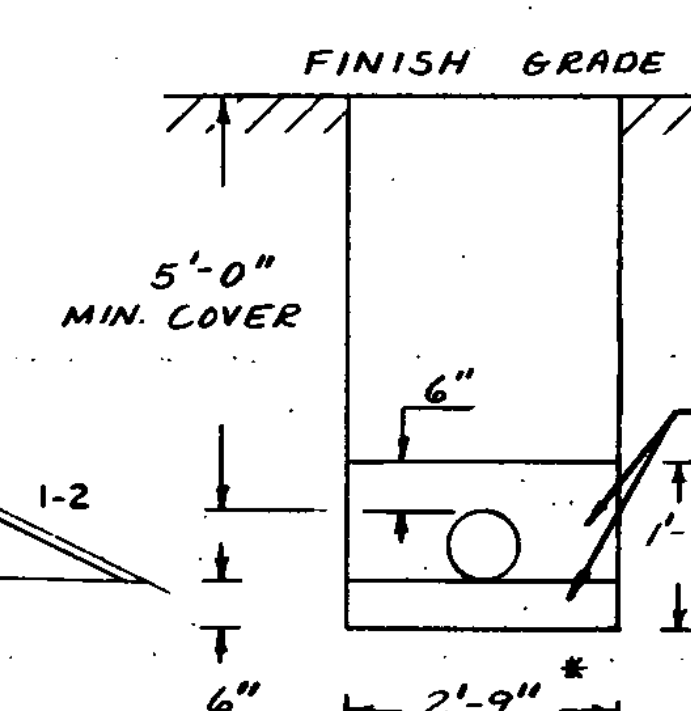
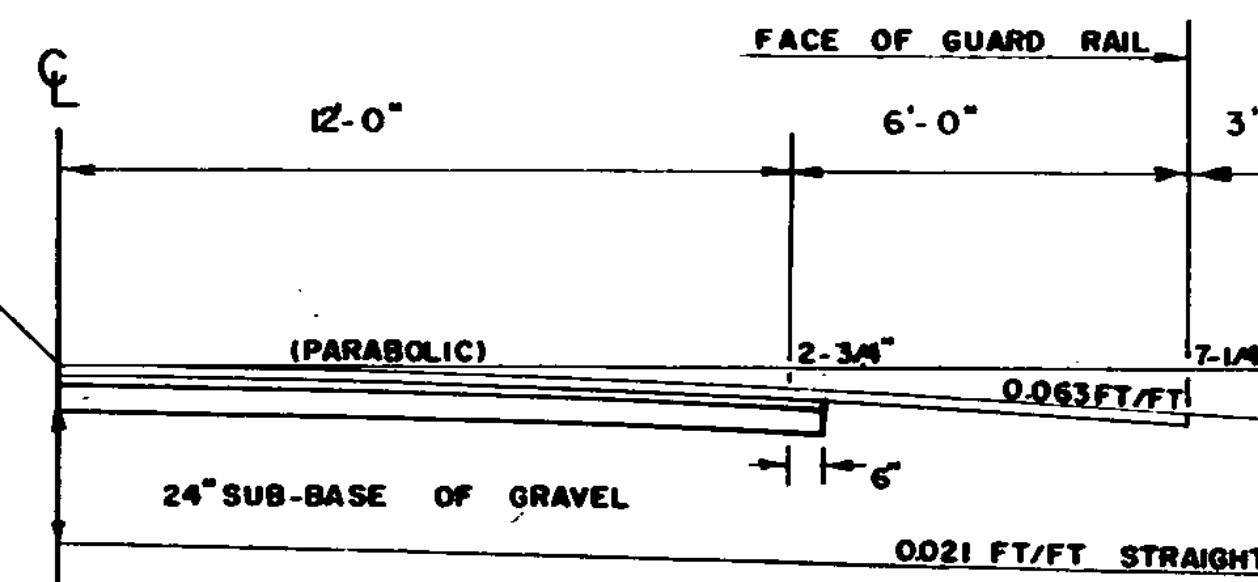
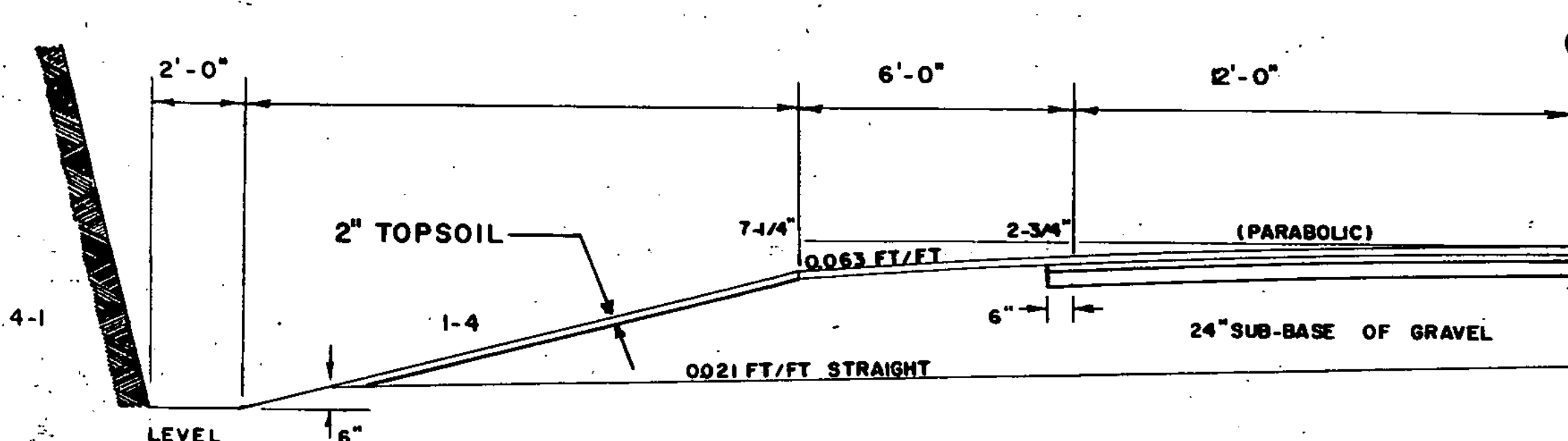
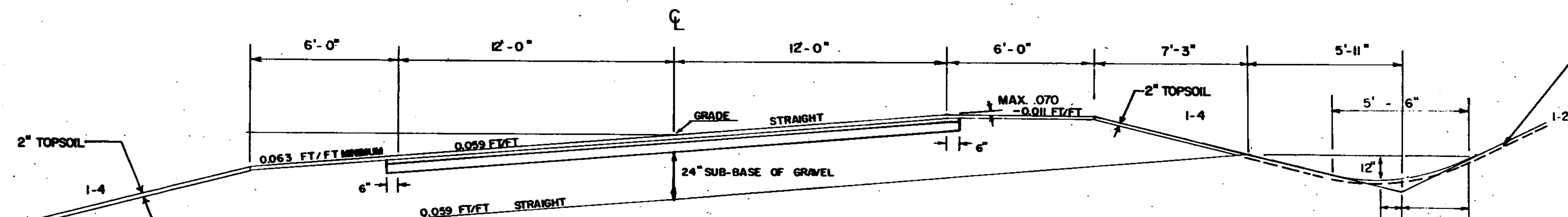
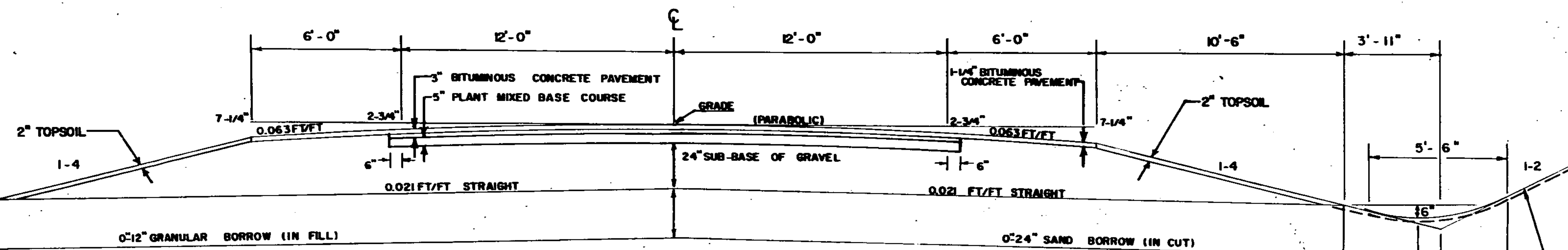
TOPSOIL, ITEM 653.10
TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL
AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING

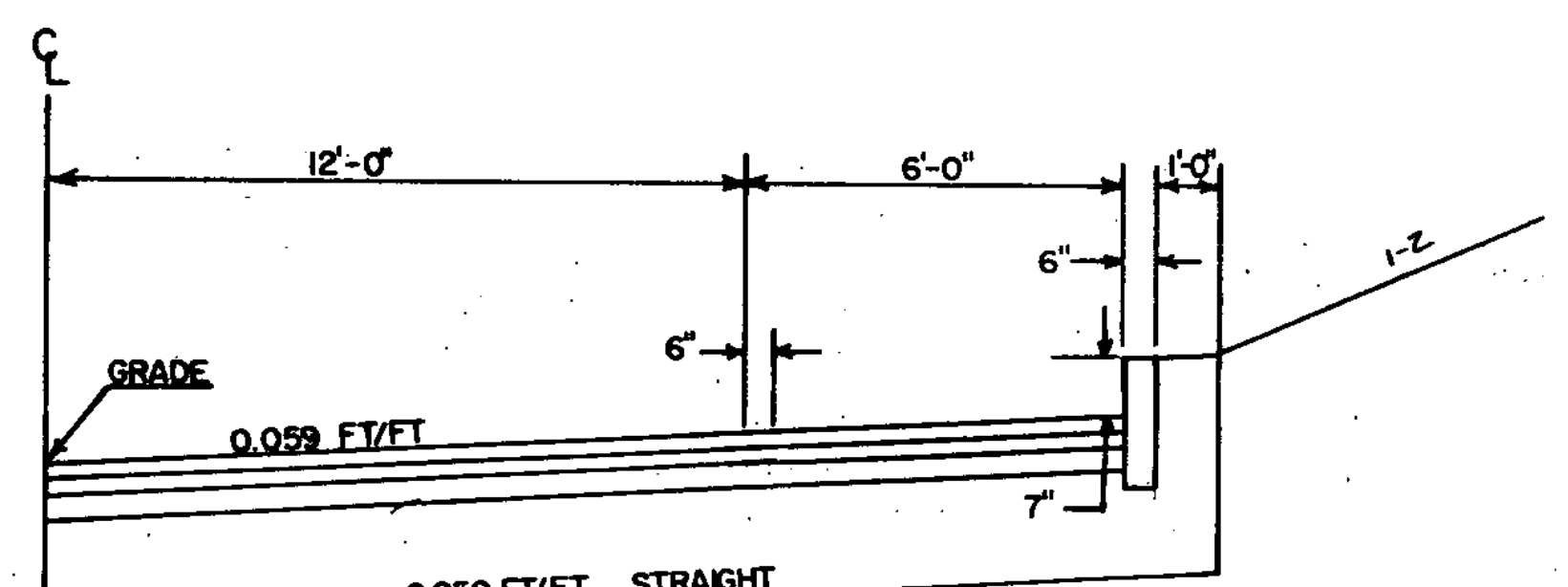
SEE STANDARD SHEET D-2 FOR PAY LIMITS OF SAND
BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN

ALLOWABLE THICKNESS TOLERANCES

SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 1/2"



TOPSOIL IF AND AS DIRECTED BY THE ENGINEER.



TOWN OF HINESBURG

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAWN BY: PRH 2/82 TRACED BY: PRH 2/82

PROJ. NO F 021-1(8)S SHEET 2 OF 76

NO. 021-1(8)S

D-13

EARTHWORK

V.C.	% GRADE	STATION		GRADES		CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE	
		ON TANGENT	ON V. CURVES	ON TANGENT	ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
16+00	+50												
17+00	+50	494.30	494.30	0									
18+00	+50	494.63	494.93	+0.30	50	73	141						
19+00	+50	494.80	495.47	+0.67	50	88	157						
20+00	+50	494.83	495.59	+0.76	50	87	157						
21+00	+50	495.72	496.15	+0.43	25	25	85						
22+00	+50	496.44	496.67	+0.23	25	25	85						
23+00	+50	496.81	496.99	+0.18	25	25	85						
24+00	+50	497.96	497.97	+0.01	25	25	85						
25+00	+50	498.40	498.40	0	50	104	93						
26+00	+50	500.19	499.98	-0.21	50	125	212						
27+00	+50	502.43	501.38	-1.05	50	125	231						
28+00	+50	503.99	501.96	-2.03	35	186	202						
29+00	+50	504.48	502.07	-2.41	15	166	98						
30+00	+50	504.66	502.11	-2.55	50	209	192						
31+00	+50	506.00	502.24	-3.76	50	267	401						
32+00	+50	505.56	502.23	-3.33	50	267	401						
33+00	+50	505.13	502.20	-2.93	50	267	401						
34+00	+50	504.91	502.17	-2.74	50	267	401						
35+00	+50	504.86	502.16	-2.70	50	267	401						
36+00	+50	502.94	501.64	-1.30	24.80	209	192						
37+00	+50	501.86	501.12	-0.74	24.80	209	192						
38+00	+50	501.43	500.87	-0.56	6.29	91	21						
39+00	+50	500.75	500.42	-0.33	25	103	84						
40+00	+50	499.66	499.58	-0.08	25	78	84						
41+00	+50	498.57	498.57	0	50	81	147						
42+00	+50	497.69			50	81	147						
43+00	+50	496.38			50	81	147						
44+00	+50	496.12			50	81	147						
45+00	+50	495.51	495.51	0	81	150	150						
46+00	+50	494.20	494.30	+0.10	50	67	137						
47+00	+50	493.76	493.91	+0.15	50	67	137						
48+00	+50	493.05	493.07	+0.02	50	67	137						
49+00	+50	492.74	492.74	0	50	67	137						
50+00	+50	492.49			50	67	137						
51+00	+50	491.9			50	67	137						
52+00	+50	491.7			50	67	137						

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK

V.C.	% GRADE	STATION		GRADES		CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE	
		ON TANGENT	ON V. CURVES	ON TANGENT	ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
53+00	+50												
54+00	+50												
55+00	+50												
56+00	+50												
57+00	+50												
58+00	+50												
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98+00	+50												
99+00	+50												
100+00	+50												

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK SUMMARY

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS		ROCK EXCAV. CUBIC YARDS		EMBANKMENT CUBIC YARDS		EXCESSES CUT		ACCUMULATIVE EXCESSES CUT		BASE CUBIC YARDS	
STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS		ROCK EXCAV. CUBIC YARDS		EMBANKMENT CUBIC YARDS		EXCESSES CUT		ACCUMULATIVE EXCESSES CUT		BASE CUBIC YARDS	
BEGIN APPROACH		386		1		385		385		385			
18+25		2212		19		2190		2190		2575			
END APPROACH		287		3		284		284		2859			
ROADWAY		2885		23									
TR #2		381		0		381		381		3240			
DRIVES		232		0		232		232		3472			
TOTAL		3498		23									

SHEET NO.	COL NO.	SUMMARY BY COLUMNS				REMARKS
		EXCAVATION		EMBANKMENT	BASE	
		TOTAL CU YDS - ROCK CU YDS	C/BIC YARDS	CUBIC YARDS		
					EARTH AND ROCK EXCAVATION	3498
					SOLID ROCK EXCAVATION	
					EARTH EXCAVATION	3498
					PLANIMETERED FILL	23
					LESS FACTORED SOLID ROCK	
					LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
					NET PLANIMETERED FILL	23
					FACTOR 1.15	
					PLANIMETERED FILL INCLUDING FACTOR	26
					MATERIALS AVAILABLE FOR FILL	
					EARTH EXCAVATION	3498
					CHANNEL EXCAVATION UNCLASS (.60)	75
					UNDERDRAIN EXCAVATION	
					STRUCTURE EXCAVATION 115X.60 =	69
					TOTAL MATERIAL AVAILABLE FOR FILL	3642
					TOTAL FILL INCLUDING FACTOR	26
					TOTAL MATERIAL FOR FILL	
					BORROW	
					EXCESS EXCAVATION	3616

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	AGNEW, GEORGE H. & BARBARA F.	6	16+84 LT. 15+96 LT.	17+01 LT. 17+01 LT.			DITCH RT. (P) CUL. RT. (P)	(0.04 A±)	WDGE	10-24-84	HINESBURG	53	147-148 (1700 S.E.±)
2	INTERNATIONAL CHEESE CO., INC.	6,7	17+01 LT.	21+37 RT.	0.32 A±		ALL RT. & L.	WD COND.	11-23-84	HINESBURG	53	351-355	HWY. EASE. VT. RTE. 116 (EXCEPTING & RESERVING 8' CONC. WALL BETWEEN STA. 18+40 LT. AND STA. 18+67 LT.) (230 S.E.±) 40' PAVED (1920 S.E.±) TEMP. BRIDGE AND DETOUR 40' PAVED (700 S.F.±) SIGN - REMOVE
3	FARNHAM, RICHARD H.	6,7	17+02 RT. 17+02 RT. 17+80 RT. 17+40 RT.	17+96 RT. 17+96 RT.	0.07 A±		ALL RT. & L.	WD COND.	11-23-84	HINESBURG	53	351-355	(3200 S.E.±) HWY. EASE. VT. RTE. 116 DRIVE (18' GRAVEL) SIGN - REMOVE
4	HAMERSLOUGH, PHILIP, III	7	17+96 RT. 17+96 RT. 18+16 RT. 18+42 RT. 18+25 RT.	19+07 RT. 19+07 RT. 18+60 RT.	0.09 A±		ALL RT. & L.	WD COND.	11-23-84	HINESBURG	53	351-355	(3940 S.E.±) HWY. EASE. VT. RTE. 116 DRIVE (18' STONE) SIGN - REMOVE EXCEPT & RESERVE STONE WALK
5	MARTIN, HELEN	7	19+07 RT. 19+07 RT. REV. I.H. 2 5+76 RT. 19+07 RT.	20+11 RT. 20+11 RT. 19+50 RT.	0.08 A±		ALL RT. & L. DRIVE (T)	WD	10-12-84	HINESBURG	53	149-150	(3600 S.E.±) HWY. EASE. VT. RTE. 116 25' GRAVEL (COMMON WITH PARCEL NO. 6) EXCEPT & RESERVE STONE WALL
6	PRIN, MELVIN & MARION	7	REV. I.H. 2 5+76 RT.				DRIVE (T)	AGREE. COND.	11-23-84	HINESBURG	53	351-355	25' GRAVEL (COMMON WITH PARCEL NO. 5)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	4,7	Parcel #9 LYMAN: Added "Joan K." to title, per C.O. #6178	4-5-84	E.A.	
2	3,7	Parcel #2 INTER. CHEESE, Added Sign To Plans Rt Sta. 18+15 ~ 18+23 30' Lt. Per C.O. # 6216	6-13-84	B.A.M.	
3	3,6,7	Parcel #3 FARNHAM, Added Sign At Sta. 17+30 20' Rt. Sta. 17+53 30' Rt. Per C.O. # 6217	6-13-84	B.A.M.	
4	3,7	Parcel #4 HAMERSLOUGH, Added Sign At Sta. 18+42 21' Rt. Per C.O. # 6218	6-13-84	B.A.M.	
5	4,7	Parcel #8 HUNTER, Deleted HENRY I. From Title, Marked Save To 15" Maple At Sta. 21+90R Per Revised Design I C.O. # 6219	6-13-84	B.A.M.	
6	3,7	Parcel #4 HAMERSLOUGH & Parcel #11 GIROUX, Parcel #4 Added SAVE To Stone Walk At Sta. 18+25 ~ 18+60R. EXCEPT RESERVE STONE WALK Parcel #11 Added To Locust Tree At Sta. 23+00R & Willow Tree At Sta. 23+35 Rt. Per Revised Design I C.O. # 6220	6-13-84	B.A.M.	
7	3,7	Parcel #5 MARTIN, Added SAVE To Flowers Sta. 19+76 ~ 19+96 15' Rt. SAVE To 4" Cedar Tree Sta. 19+60 Rt. SAVE STONE WALL STA. 19+07 ~ 19+50 Rt. EXCEPT I RESERVE Per Revised Design I C.O. # 6221	6-13-84	B.A.M.	
8	7	Parcel #9 LYMAN, Added Flowering Crab Tree Sta. 21+35 47' Lt. Per Revised Design I C.O. # 6224	6-13-84	B.A.M.	
9	7	Parcel #2 INTER. CHEESE, Revised curbing of DRIVE AT STA. 19+90LT. Per C.O. # 6229	7-3-84	DEM.	
10	3,6,7	Parcel #3 FARNHAM, Deleted 2 signs At Sta. 17+50 RT + 17+53 RT; Added Sign At Sta. 17+40 RT. + on Detail sign - remove, Per C.O. # 6355 Plans Given To Design 12-17-84 B.A.M.	10-2-84	DEM.	LWB

MADE BY: EA DATE 12-27-83
CHECKED BY: LWB DATE 12-27-83

OR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
(D) - DEMOLITION OR REMOVAL
(W) - WATER SOURCES

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

LEGEND

CONST. EASE - CONST. EASEMENT
SR - SLOPE RIGHTS
P - PROPERTY LINE
L - TOP OF CUT
O - TOE OF SLOPE

APPROVED Lawrence W. Blinn DATE 12/27/83
CHIEF OF PLANS & TITLES

ROW. PLANS

PROJECT HINESBURG

NO. F 021-1(8)S

SHEET 6 OF 76

**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
7A	HINESBURG, TOWN OF	7	20 + 65 RT. 20 + 71 RT. 20 + 71 RT. REKTH 2 5 + 68 LT. 21 + 07 RT. 20 + 75 RT. 21 + 17 RT. 21 + 20 RT.	20 + 82 RT. 21 + 50 RT. 20 + 85 RT. REKTH 2 6 + 31 LT. 21 + 49 RT. 21 + 53 RT. 21 + 57 RT.	0.01 A±	0.17 A±	SLOPE (T) (0.01 A±) CONST.EASE (T) (0.01 A±) DRIVE (T) CULVERT (P) SLOPE (T) (0.01 A±) CONST.EASE (T) (0.01 A±)	WD	11-5-84	HINESBURG	53	285-87	(180 S.F.±) (270 S.F.±) (300 S.F.±) 35' GRAVEL (410' S.F.±) (340' S.F.±)
7B			20 + 11 RT.	21 + 50 RT.	0.10 A±		ALL R.T. & L.						HWY. EASE. VT. RTE. 116
7C			20 + 11 RT.	REKTH 2 6 + 50 LT.			EASEMENT (T) (0.14 A±)						CONSTRUCT APPROACH T.H. 2
7D			21 + 00 LT. TOTAL	21 + 07 LT.	0.11 A±	0.17 A±	REMOVAL AND REPLACEMENT (T)						6" STAND-PIPE FOR FIRE DEPT.
8	HUNTER, GRACE I.	7	21 + 37 RT. 21 + 50 RT. 21 + 50 RT. 21 + 75 RT.	22 + 54 RT. 22 + 54 RT. 21 + 71 RT.	0.08 A±	0.50 A±	ALL R.T. & L. SLOPE (T) (120 S.F.±)	WD	9-20-84	HINESBURG	53	9-10	(3580 S.F.±) HWY. EASE. VT. RTE. 116 DRIVE (14' PAVED)
9	LYMAN, DAVID F. & JOAN K.	7	21 + 18 LT. 21 + 18 LT. 21 + 05 LT. 21 + 15 LT. 21 + 67 LT.	22 + 75 LT. 22 + 75 LT. 22 + 18 LT. 21 + 51 LT.	0.11 A±	200.00 A±	ALL R.T. & L. CONST.EASE (T) (0.04 A±) SLOPE (T) (90 S.F.±) DRIVE (T)	WD COND.	11-23-84	HINESBURG	53	351- 355	HWY. EASE. VT. RTE. 116 (1600 S.F.±) TEMP. BR. & DETOUR 14' GRAVEL
10	GIROUX, VICTOR J. & BERNARD A. d/b/a GIROUX'S BODY SHOP	7	22 + 75 LT. 22 + 75 LT. 23 + 50 LT.	23 + 50 LT. 23 + 50 LT.	0.06 A±	0.25 A±	ALL R.T. & L.	WD	11-19-84	HINESBURG	53	361- 363	(2475 S.F.±) HWY. EASE. VT. RTE. 116 (EXCEPTING & RESERVING PORCH BETWEEN STA. 23+25 LT. AND 23+33 LT.) DRIVE (65' PAVED)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: FA DATE 12-27-83
CHECKED BY: LWB DATE 12-27-83

DR. RT. — DRAINAGE RIGHT
DIT. RT. — DITCHING RIGHT
CH. RT. — CHANNEL RIGHT
DRIVE RT. — DRIVE RIGHT
CUL. RT. — CULVERT RIGHT
D — DEMOLITION OR
REMOVAL
W — 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
-----Δ-----Δ-----Δ-----		TOP OF CUT
-----○-----○-----○-----		TOE OF SLOPE

APPROVED Lawrence Blin DATE 12/27/83
CHIEF OF PLANS & TITLES

R.O.W. PLANS

PROJECT HINESBURG

NO. F 021-1(8)S

SHEET 7 OF 76

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

TABLE OF PROJECT PROPERTY ACQUISITION

[illegible]

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: FA DATE 12-27-83

CHECKED BY: LWB DATE 12-27-83

DR. RT. - DRAINAGE RIGHT
DIT. RT. - DITCHING RIGHT
CH. RT. - CHANNEL RIGHT
DRIVE RT. - DRIVE RIGHT
CUL. RT. - CULVERT RIGHT
D - DEMOLITION OR
REMOVAL
W - 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

Diagram illustrating the relationship between various survey lines and points in a cross-section:

- CONST. EASE
- SR SR SLOPE RIGHTS
- P L P PROPERTY LINE
- Δ Δ Δ TOP OF CUT
- O O O TOE OF SLOPE

APPROVED Lawrence Blair DATE 12/27/85
CHIEF OF PLANS & TITLES

R.O.W. PLANS

PROJECT HINESBURG

NO. F 021-1(8)S

SHEET 8 OF 76

18+25
Begin Project F 021-1(8) S
Construct Satisfactory Approach

BM #2
S.I.T
24' M.
ASSUMED
ELEV. 500.00

LYMAN, DAVID F. & JOAN K.

22+50
END PROJECT FOZ1-1(6)S
CONSTRUCT SATISFACTORY APPROACH

GIROUX, VICTOR JOSEPH
GIROUX, BERNARD ADRIAN
D/B/A GIROUX'S BODY SHOP

Guard Rail, Standard Steel Beam w/ Steel Posts, Type I; Item 621.26	
Lt.	Rt
20+95~21+58	21+18~21+68

Construct Drives

Lt 21 + 67 (14' wide, gravel)
17*55 (40' wide, gravel)
20*20 (40' wide, gravel)
23*50 (65' wide, paved)
Rt
17*80 (18' wide)
18*16 (18' wide, Stone)
21*00 (35' wide)
21*75 (Paved)
TR*2 5*76 (25' wide)

Changing Elevation of Sewer
Manhole; Item 604.401
1996 (11' RH)

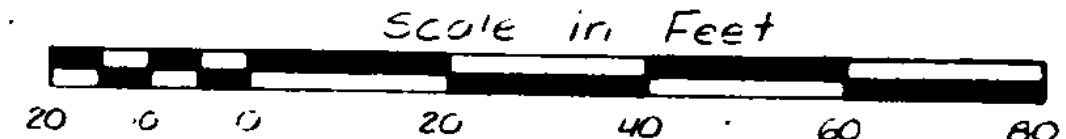
Adjust Elevation of Valve
Box; Item 629.20

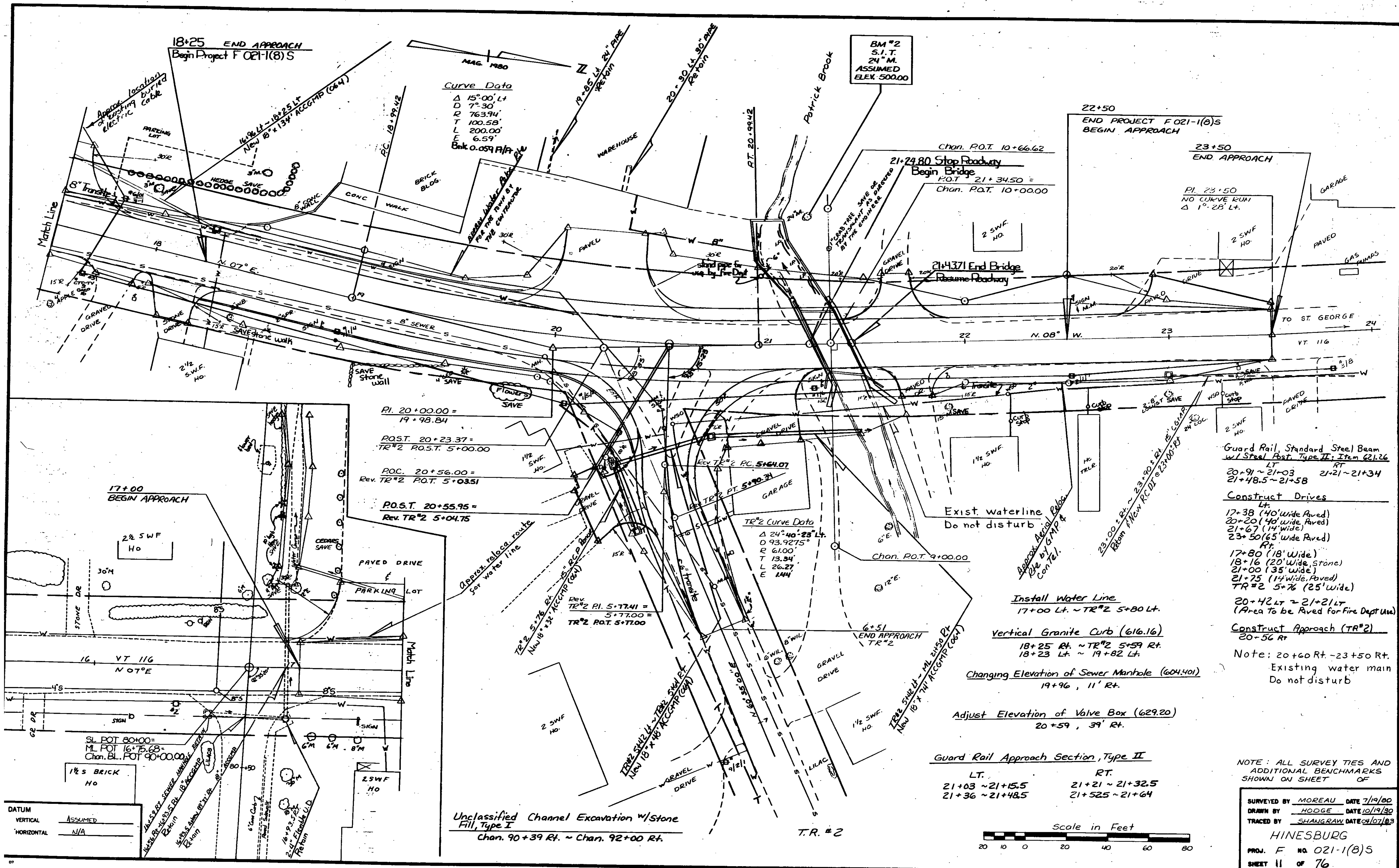
Vertical Granite Curb
Item 616.16
18+25R: TR#2 5:
18+231: 20+004

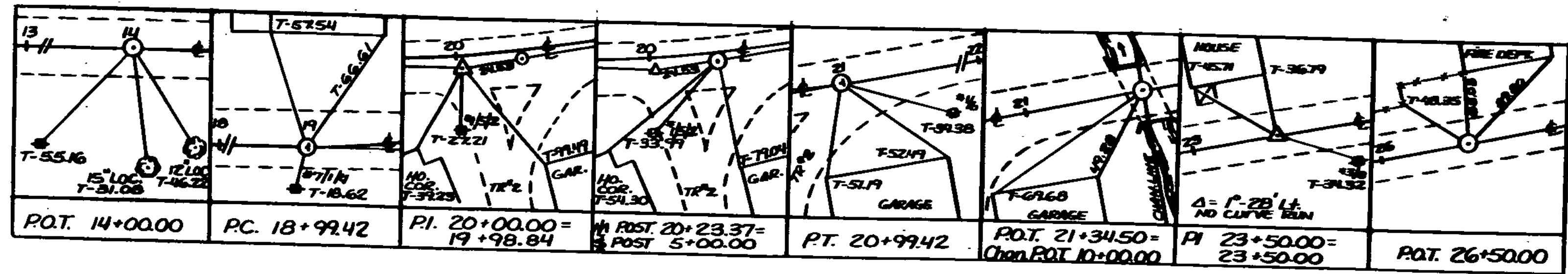
THIS SHEET TO BE USED
FOR ROW INFORMATION ONLY

SURVEYED BY MOKEAU DATE 7/19/80
DRAWN BY HOLGE DATE 10/19/80
TRACED BY HANGRAW DATE 04/07/83

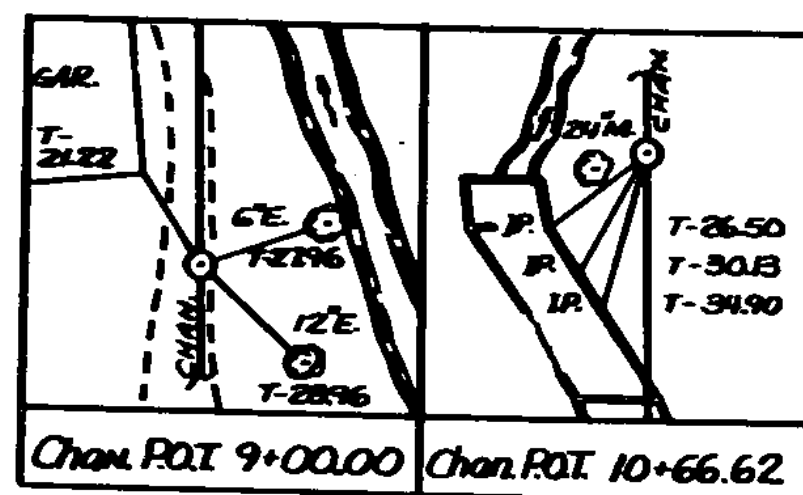
HINESBURG
F 021-1(8)S
SHEET 10 OF 76



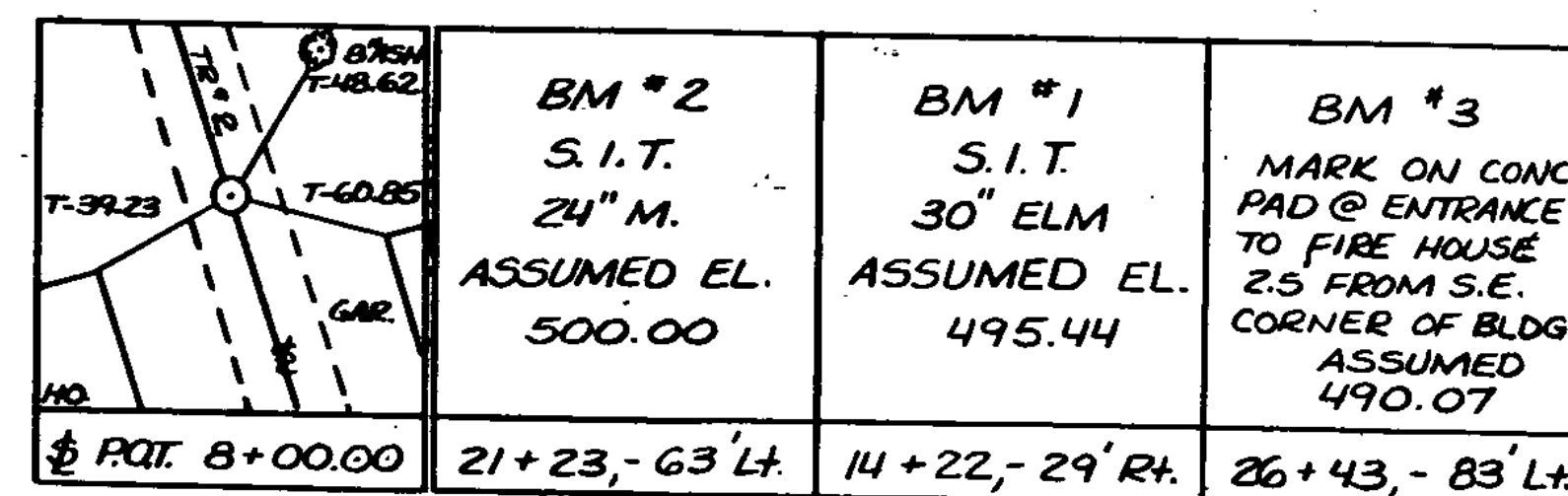




MAINLINE TIES



CHANNEL LINE TIES

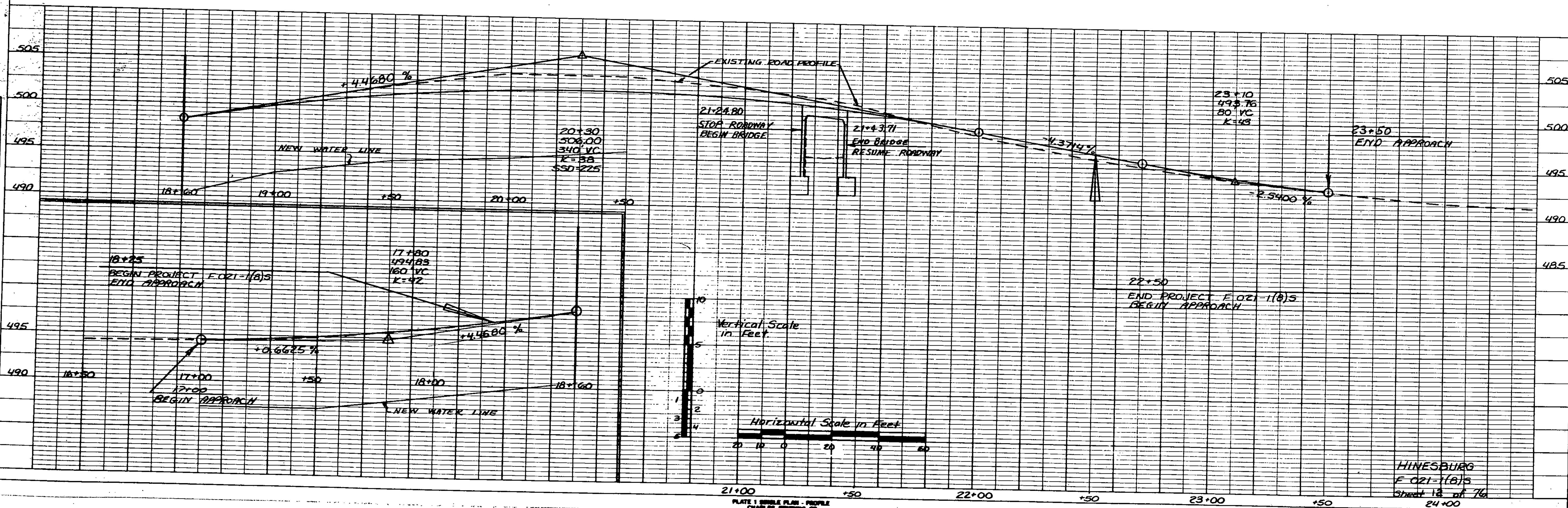


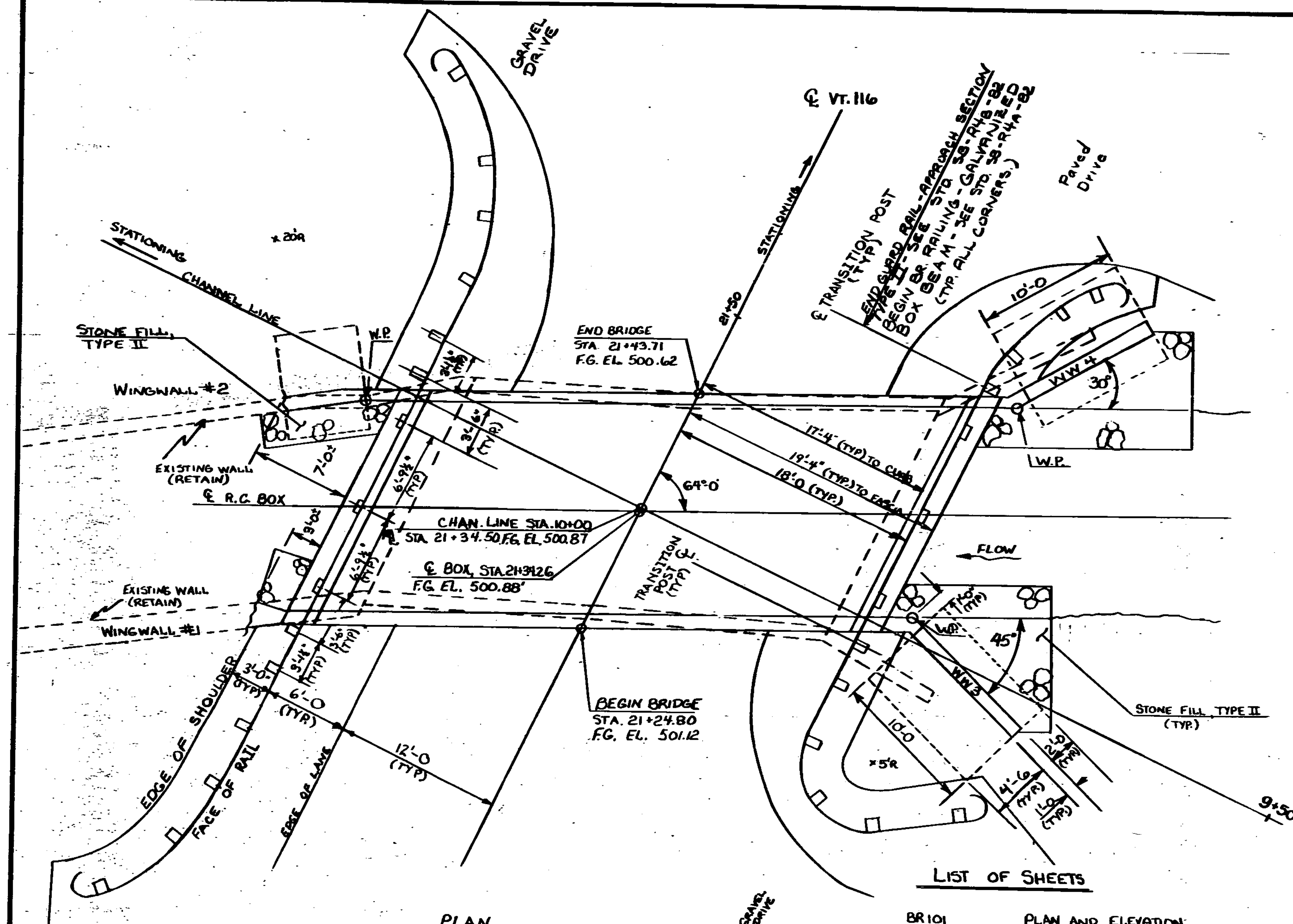
SIDELINE TIES

BENCHMARKS



ALL TIES ORIENTED TO
THIS NORTH ARROW
ALL SKETCHES NOT TO SCALE





PLAN
SCALE: 1"=5'-0"

LIST OF SHEETS

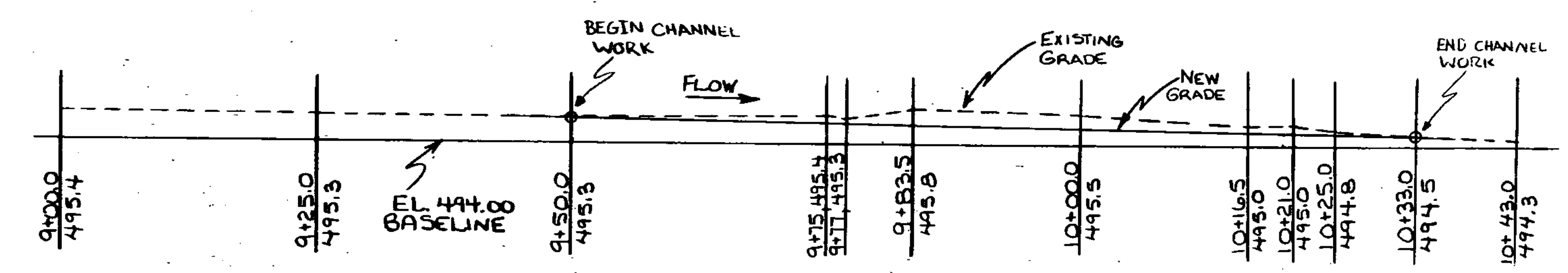
BR101	PLAN AND ELEVATION
BR102	BRIDGE QUANTITY SHEET
BR103	REINFORCING DETAILS-BOX
BR104	WINGWALL 1:2 DETAILS
BR105	WINGWALL 3:4 DETAILS
BR106	REINFORCING SCHEDULE
BR107-BR111	CHANNEL SECTIONS
SB-R4A-B2	
SB-R4B-B2	
SCB-D1-75	
SCB-D6-73	

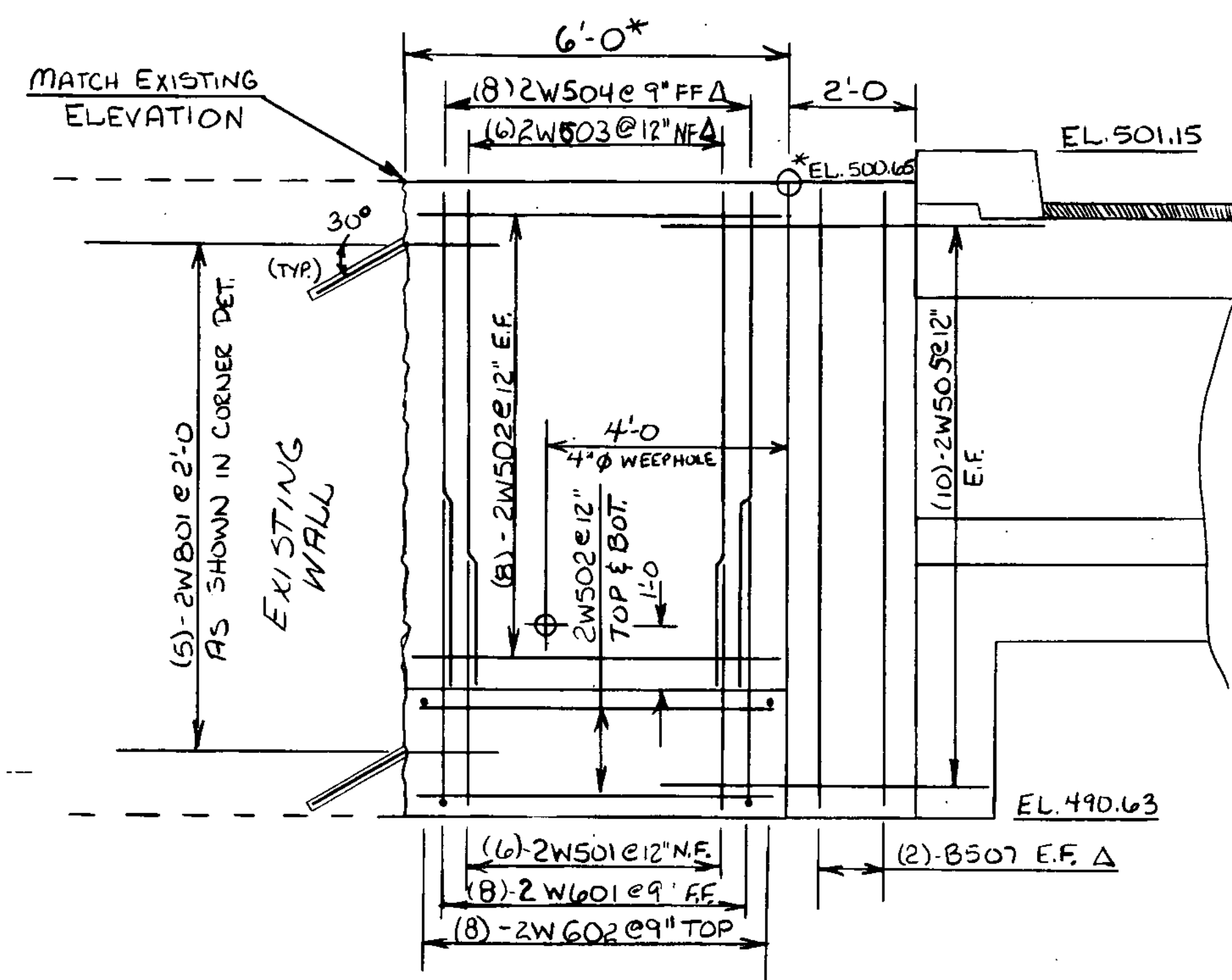
HYDRAULIC DATA

DRAINAGE AREA = 7.2 Sq. Miles	
Q ₂₃₃ = 125 cfs	H.W. Elev. = 499.7
Q ₁₀ = 220 cfs	H.W. Elev. = 500.1
Q ₂₅ = 310 cfs	H.W. Elev. = 500.3
Q ₅₀ = 380 cfs	H.W. Elev. = 500.4
Q ₁₀₀ = 450 cfs	H.W. Elev. = 500.5
Tailwater @ Q ₅₀ = 6.4'	
Velocity @ Q ₅₀ = 6.3 fps	

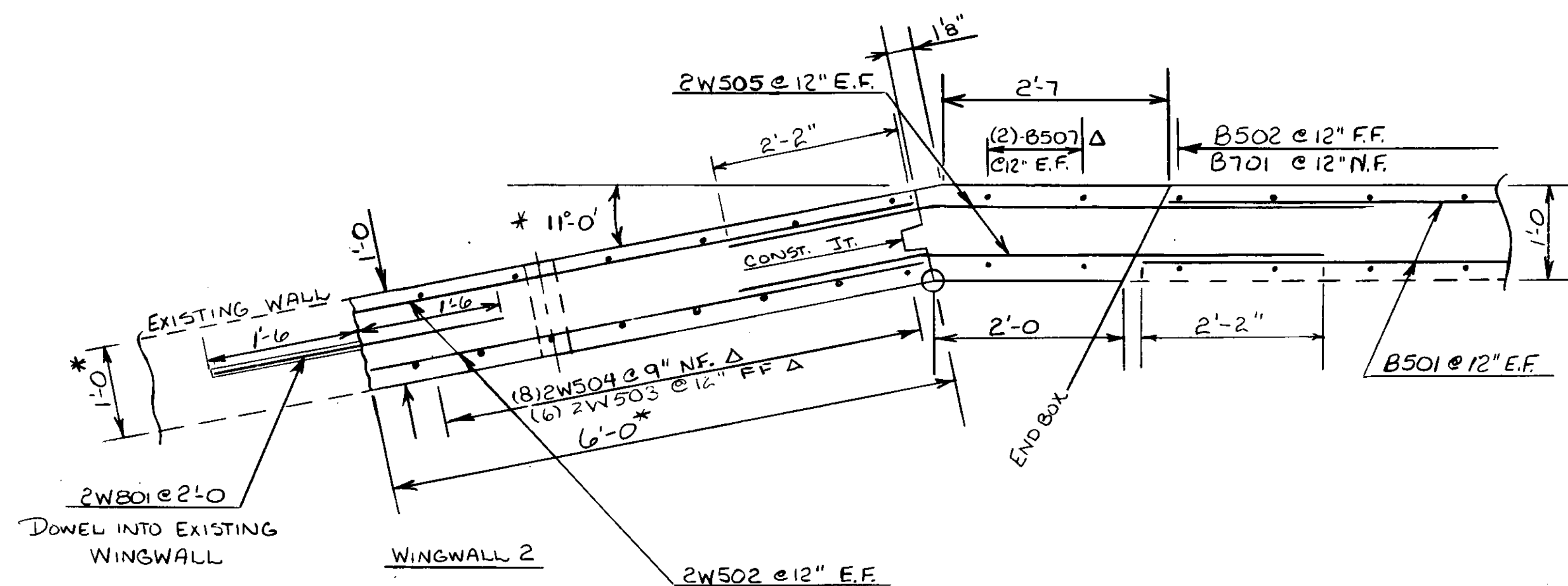
NOTES

1. The existing superstructure, abutments and upstream wingwalls shall be removed under the item 'Removal of Structure'. Removal of Structure shall also include the removal of the downstream wingwalls to within 3' from new fascia at abutment 1 and within 7' of new fascia at abutment 2. As shown on this sheet.
2. The downstream retaining walls shall be retained beyond the point where removal of structure ends. New wingwalls 1 and 2 shall be attached to existing walls with drilled and grouted dowels. When joining new concrete to existing, the existing J shall be coated with neat cement grout as specified in Section 501.12(b) and payment shall be subsidiary to Concrete, Class B.
3. Two-way traffic shall be maintained at all times, under the item 'Two-way Temporary Bridge'. The cost of all signs and barricades shall be included in the unit price bid for Two-way Temporary Bridge.
4. All existing elevations shall be verified in the field prior to commencement of construction.
5. Structure Excavation shall include all material within 1'-0" of the new structure, excluding the material to be removed under removal of structure.
6. See Sheet BR104 for additional notes.

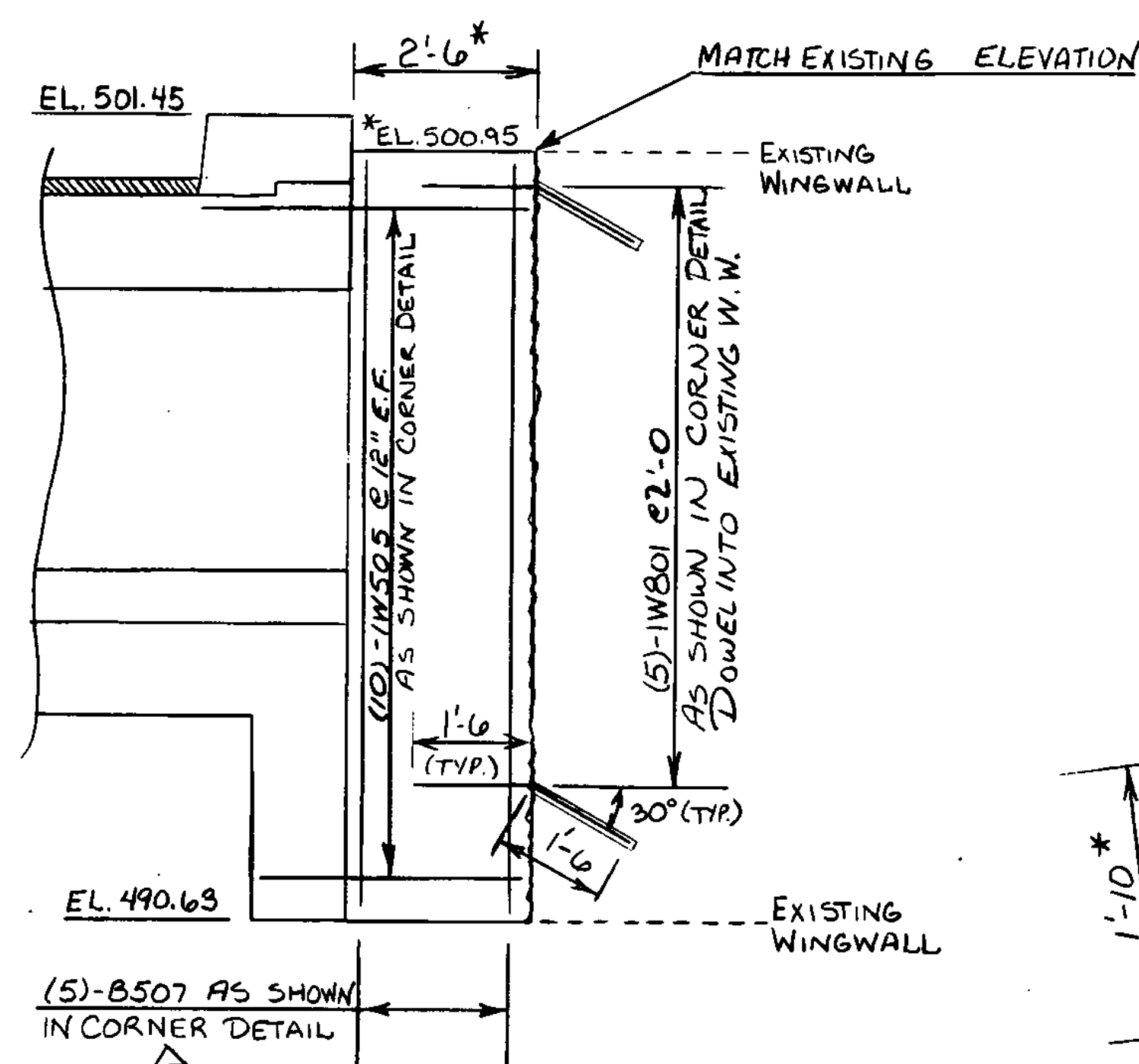




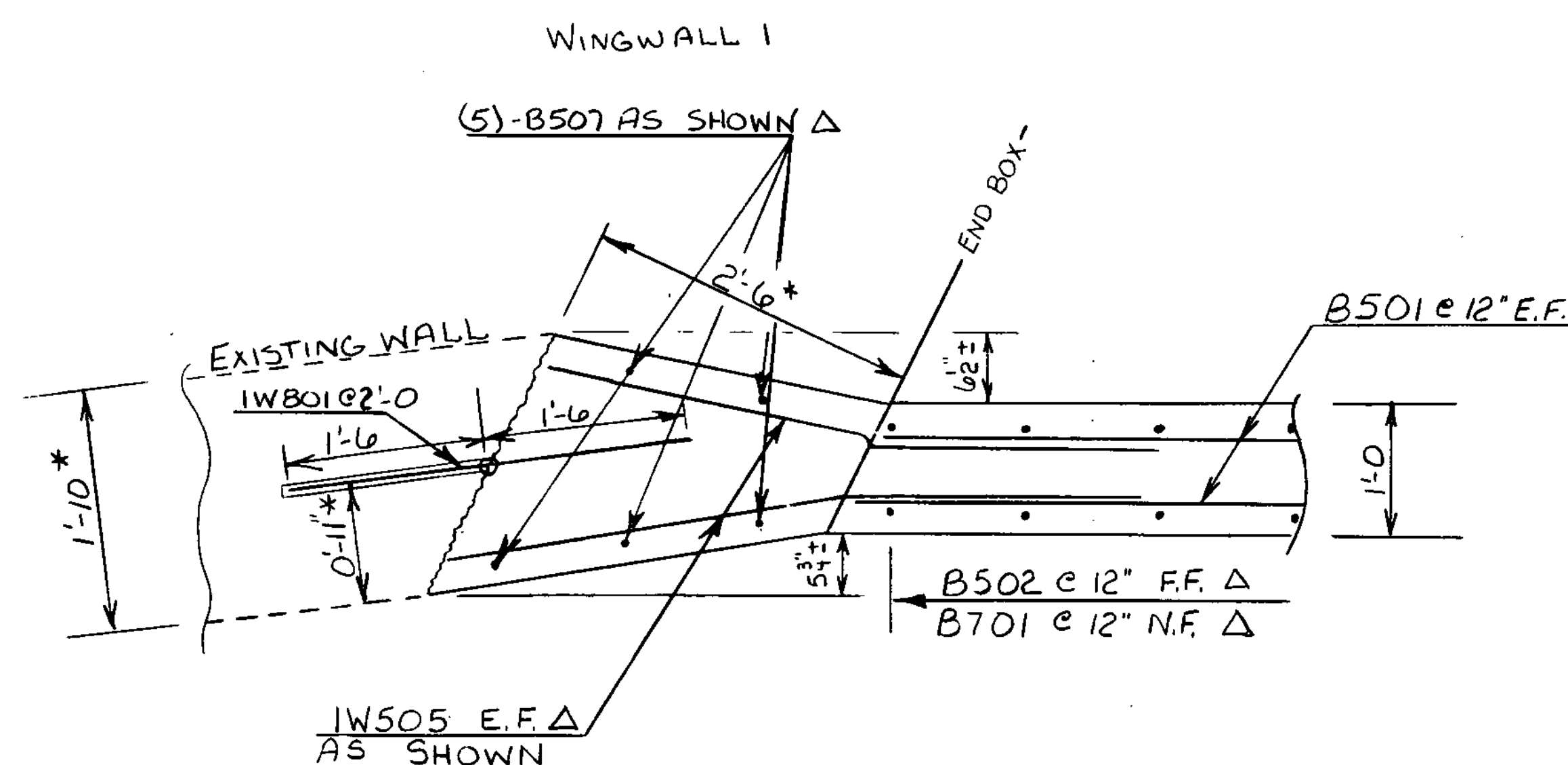
ELEVATION - WINGWALL 2
SCALE: 1/2" = 1'-0"



CORNER DETAIL WINGWALL 2
SCALE: 1" = 1'-0"



ELEVATION - WINGWALL 1
SCALE: 1/2" = 1'-0"



CORNER DETAIL - WINGWALL 1
SCALE: 1" = 1'-0"

NOTES

1. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED AREAS OF THE STRUCTURE, EXCEPT THE BOX EXTERIOR.
2. THE BOTTOM SLAB OF THE BOX SHALL BE SCREEDED AND FLOATED.
3. ALL CONCRETE SHALL BE CONCRETE, CLASS B.
4. FOR ADDITIONAL GENERAL NOTES SEE STD. SCB-DI-75.
5. SEE STD. SB-R4a-B2 FOR BRIDGE RAILING DETAILS.
6. SEE STD. SB-R4b-B2 FOR APPROACH RAILING DETAILS.
7. SEE STD. SCB-D6-73 FOR CURB DETAILS, OMIT GRANITE CURB.
8. THERE SHALL BE A 72 HOUR MINIMUM WAITING PERIOD BETWEEN CONCRETE POURS ON OPPOSITE SIDES OF ANY CONSTRUCTION JOINT.

△ CUT TO FIT IN FIELD

* ESTIMATED - ACTUAL DIMENSION TO BE DETERMINED IN THE FIELD.

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF	HINESBURG	Bridge No. 27
HIGHWAY NO.	VT 116	Log Sta. 21+24.80
	VT. 116 OVER PATRICK BROOK	Surv. Sta.
	WINGWALL 1 & 2 DETAILS	
Designed by	M. EVANS	Drawn by M. EVANS
Checked by	J.A. HOWAR	Bridge Design Supervisor
	date 9-6-84	R.L. O'Leary date 10-84
PROJECT	HINESBURG	PROJECT NO. F021-(8)5
	Bridge Sheet No. BR 104	Sheet 16 of 76

ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIG- NATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SEC- TIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A 615), GRADE 60.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

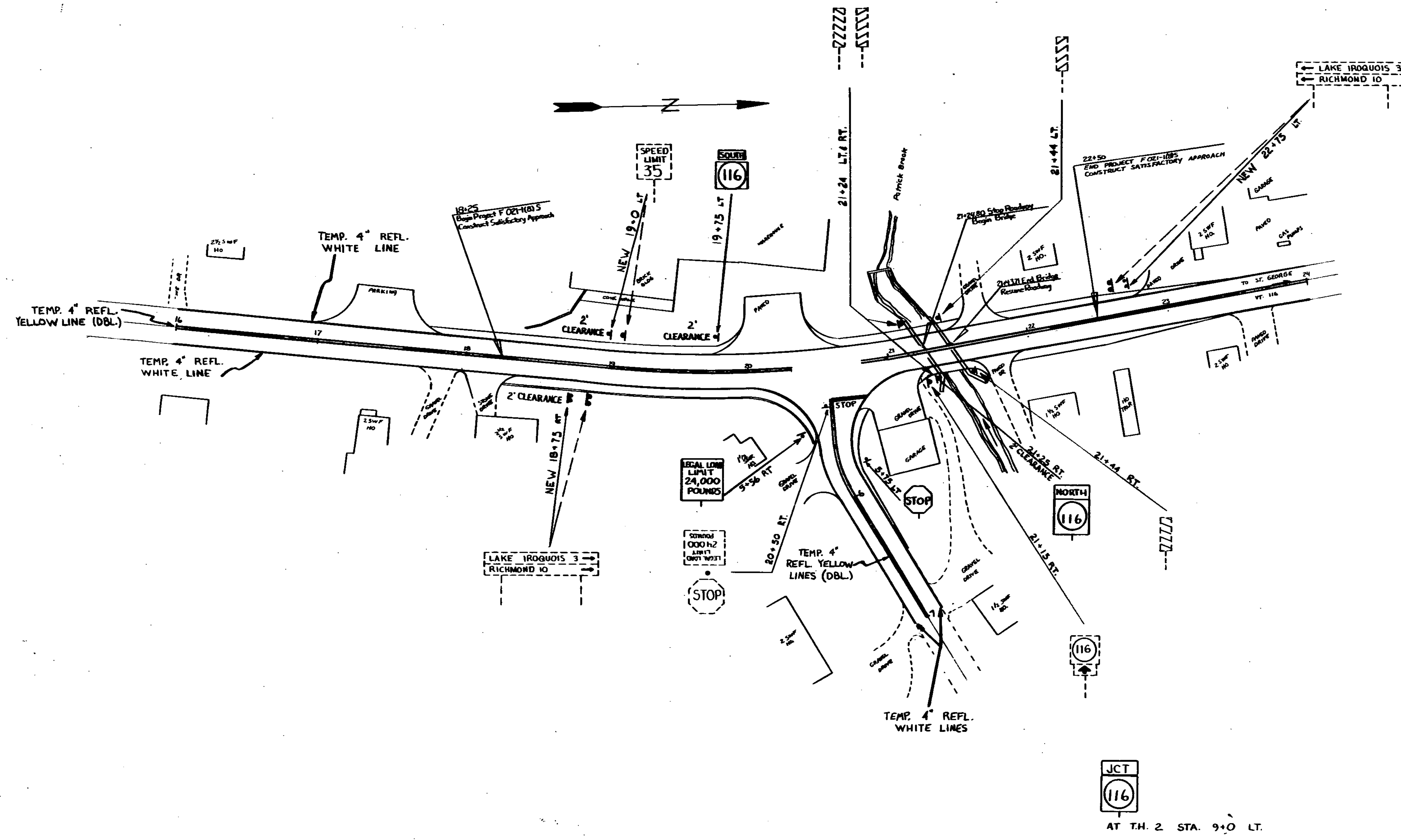
REV. NO.	MADE BY	DATE	DESCRIPTION
STATE OF VERMONT AGENCY OF TRANSPORTATION			
TOWN OF HINESBURG		BRIDGE NO. 27	
HIGHWAY NO. V.T. 116		LOG STA. 21+24.80	
		SURV. STA.	
VT. 116 OVER PATRICK BROOK			
REINFORCING STEEL SCHEDULE			
DESIGNED BY M. EVANS		DRAWN BY K. BLUMQUIST	
CHECKED BY J. HOLLAND		BRIDGE DESIGN SUPERVISOR	
DATE 9-6-87		DATE 10-9-87	
PROJECT HINESBURG		PROJECT NO. F021-1(18)S	
BRIDGE SHEET NO. BR106 SHEET 18 OF 76			

TEMPORARY 4" REFLECTORIZED WHITE LINES
 16+0 ~ 24+0, 12' LT.
 16+0 ~ 20+0, 12' RT.
 20+0, 12' RT. ~ T.H. 2 5+64 11' RT (RADIUS)
 T.H. 2 5+64 ~ 7+0, 11' RT.
 T.H. 2 5+64 ~ 7+0, 11' LT.
 T.H. 2 5+64, 11' LT. ~ 21+15, 12' RT (RADIUS)
 21+15 ~ 24+0, 12' RT.

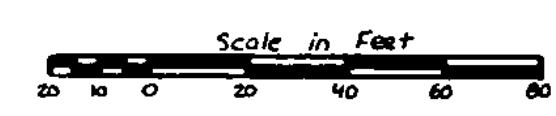
TEMPORARY 4" REFLECTORIZED YELLOW LINES
 16+0 ~ 20+30 (DBL.)
 20+80 ~ 24+0 (DBL.)
 T.H. 2 5+30 ~ 7+0 (DBL.)

DURABLE 24" STOP BARS
 T.H. 2 5+30 ~ 5+32, LT.

DURABLE LETTER IN WORD MARKING
 T.H. 2 5+36 ~ 5+44, 3'-10' LT.



LEGEND
 [---] EXISTING SIGNS TO BE REMOVED



DATUM
 VERTICAL _____
 HORIZONTAL _____

SURVEYED BY MOREAU DATE 7/19/80
 DRAWN BY HODGE DATE 10/19/80
 TRACED BY C.D.B. DATE 12/84
HINESBURG
 PROJ. F NO. 021-1(8) S
 SHEET 19 OF 76

TRAFFIC SIGN SUMMARY SHEET-TYPE A SIGNS.

MILEMARKER, STATION OR SIGN NUMBER	LEGEND	TYPE	SIGN DIMENSIONS	EXISTING SIGNS TO BE SALVAGED		NEW AND SALVAGED SIGNS (S.F.)				EXISTING POSTS			NEW POSTS								REMARKS	FOR SIGN DETAIL SEE SHEET OR STANDARD SHEET NUMBER	
				REMOVE (EA)	RETAIN (X)	NEW "A"	SALVAGED "A"	NEW "B"	SALV. "B"	RETAIN	DRILL	REMOVE	NUMBER OF POSTS	TYPE "A" (FLANGED CHANNEL)			TYPE "C" (ALUMINUM)						TYPE "B" BR'KAWAY STEEL
														2.0 LB./FT.	2.5 LB./FT.	3.0 LB./FT.	3" Ø	3" □	4" Ø MOD.	4" Ø			
OLD STA. / NEW STA.																							
18+95 Rt. / 18+75 Rt.		A	72" x 10"	1		5						X	2			X						E-23	
19+05 Lt. / 19+0 Lt.		A	24" x 30"	1		5						X	1	X								E-23	
19+75 Lt.		A	2' x 1'			2							1		X							E-13	
20+50 Rt.	 	A	30" x 30"	1								X										E-13	
TH. 2 5+36 / TH. 2 5+75		A	30" x 30"			4							1	X								E-15A	
21+15 Rt.		A	30" x 24"	1		6.3							1		X							E-15C	
21+24 Rt.		A	24" x 15"	1								X											
21+24 Lt.		A	1' x 3'	1								X											
21+25 Rt.		A	2' x 1'			2							1		X							E-13	
21+44 Rt. / 21+44 Lt.		A	30" x 24"			5																E-13	
TH. 2 9+0 / 22+70 Lt.		A	1' x 3'	1								X											
22+75 Lt.		A	21" x 15"			2.2							1		X							E-13	
		A	30" x 24"			5																E-13	
		A	72" x 10"	1		5						X	2		X							E-23	
		A	72" x 10"	1		5																E-23	
TOTALS				13		56.5							11										
POST LENGTHS ARE APPROXIMATE. FINAL LENGTHS TO BE DETERMINED IN THE FIELD IF FINAL LENGTHS VARY BY MORE THAN 2 FEET, RECOMPUTE THE POST SIZE BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS.																					PREPARED BY: C.D.B. DATE: 12-84 CHECKED BY: HINESBURG DATE: _____ PROJ. F NO. 021-1(8)5 SHEET 20 OF 76		

POST LENGTHS ARE APPROXIMATE. FINAL LENGTHS TO BE DETERMINED IN THE FIELD IF FINAL LENGTHS VARY BY MORE THAN 2 FEET, RECOMPUTE THE POST SIZE BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS.

PREPARED BY C.D.B. DATE 12-84
 CHECKED BY DATE
 HINESBURG
 PROJ. F NO. 021-1(8)5
 SHEET 20 OF 76

COMPOSITE SHEET - TRAFFIC SIGN SUMMARY - TRAFFIC ITEM SUMMARY - NOTES AND DETAILS

TRAFFIC SIGN SUMMARY

[illegible]

TRAFFIC ITEM SUMMARY

ITEM NUMBER	ITEM	UNIT		SUB TOTAL		ROUNDING			TOTAL
646.35	TEMPORARY 4" REFLECTORIZED WHITE LINE	L.F.		1900		-			1900
646.36	TEMPORARY 4" REFLECTORIZED YELLOW LINE	L.F.		1840		-			1840
646.64	DURABLE 24" STOP BAR	L.F.		26		-			26
646.66	DURABLE LETTER IN WORD MARKINGS	EA.		4		-			4
675.20	TRAFFIC SIGNS TYPE "A"	S.F.		56.5		0.5			57
675.35	TRAFFIC SIGN POSTS, TYPE "A"	LB.		350		-			350
675.53	REMOVING SIGNS	EA.		13		-			13

NOTES AND DETAILS

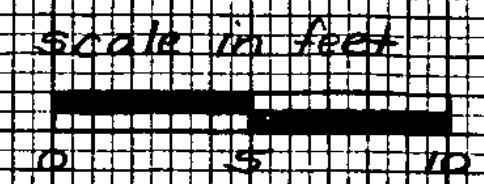
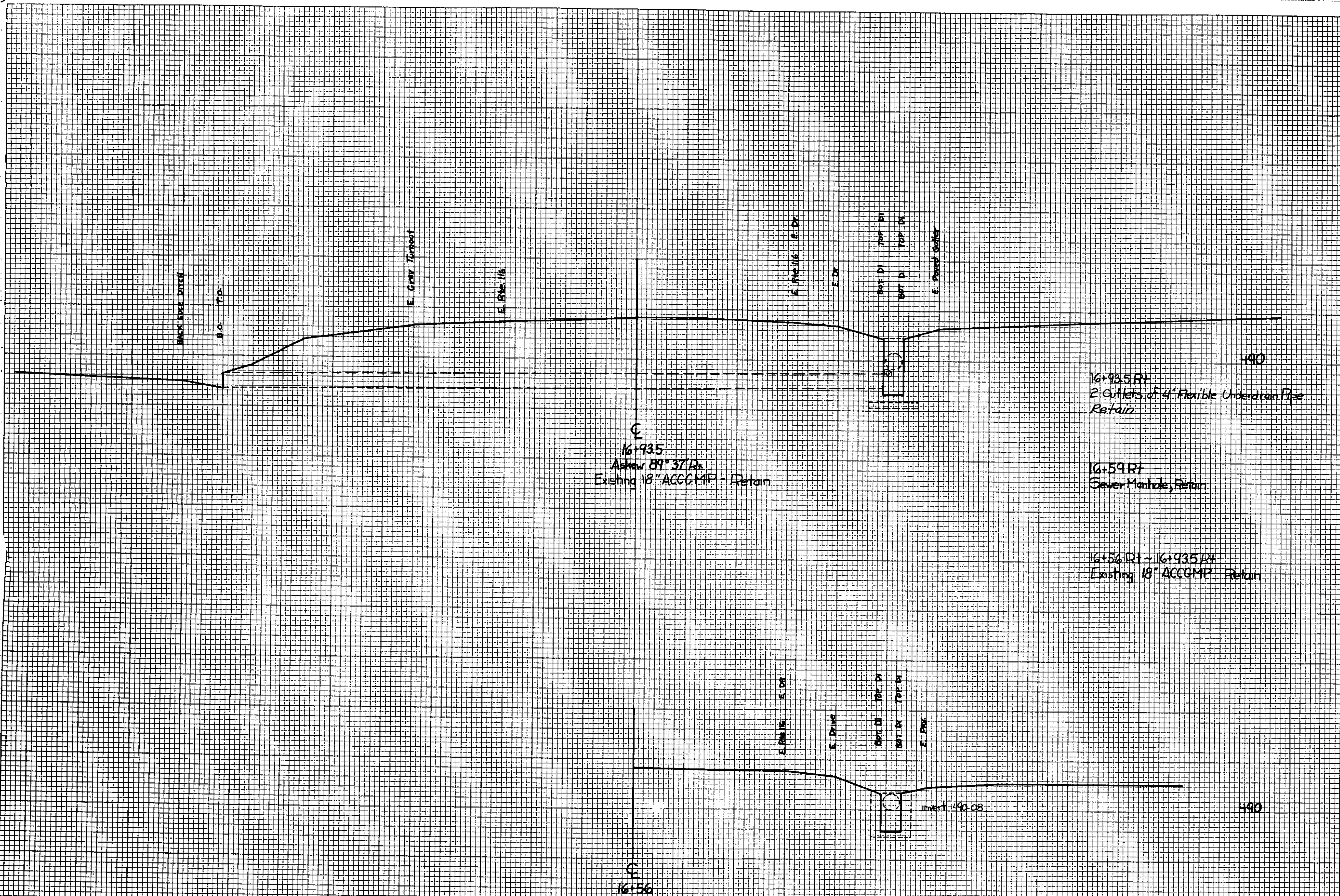
PAVEMENT MARKING NOTES-

TEMPORARY CENTERLINE MARKINGS SHALL BE APPLIED ON EACH PAVEMENT COURSE, EDGE LINES NEED ONLY BE APPLIED ON THE FINAL PAVEMENT COURSE.

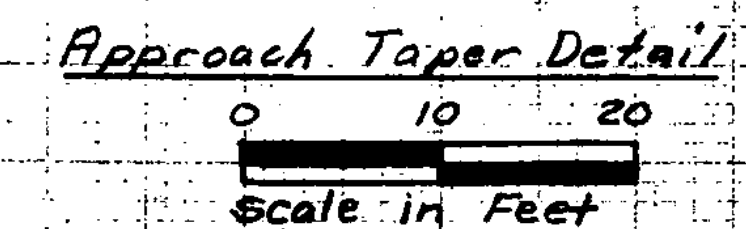
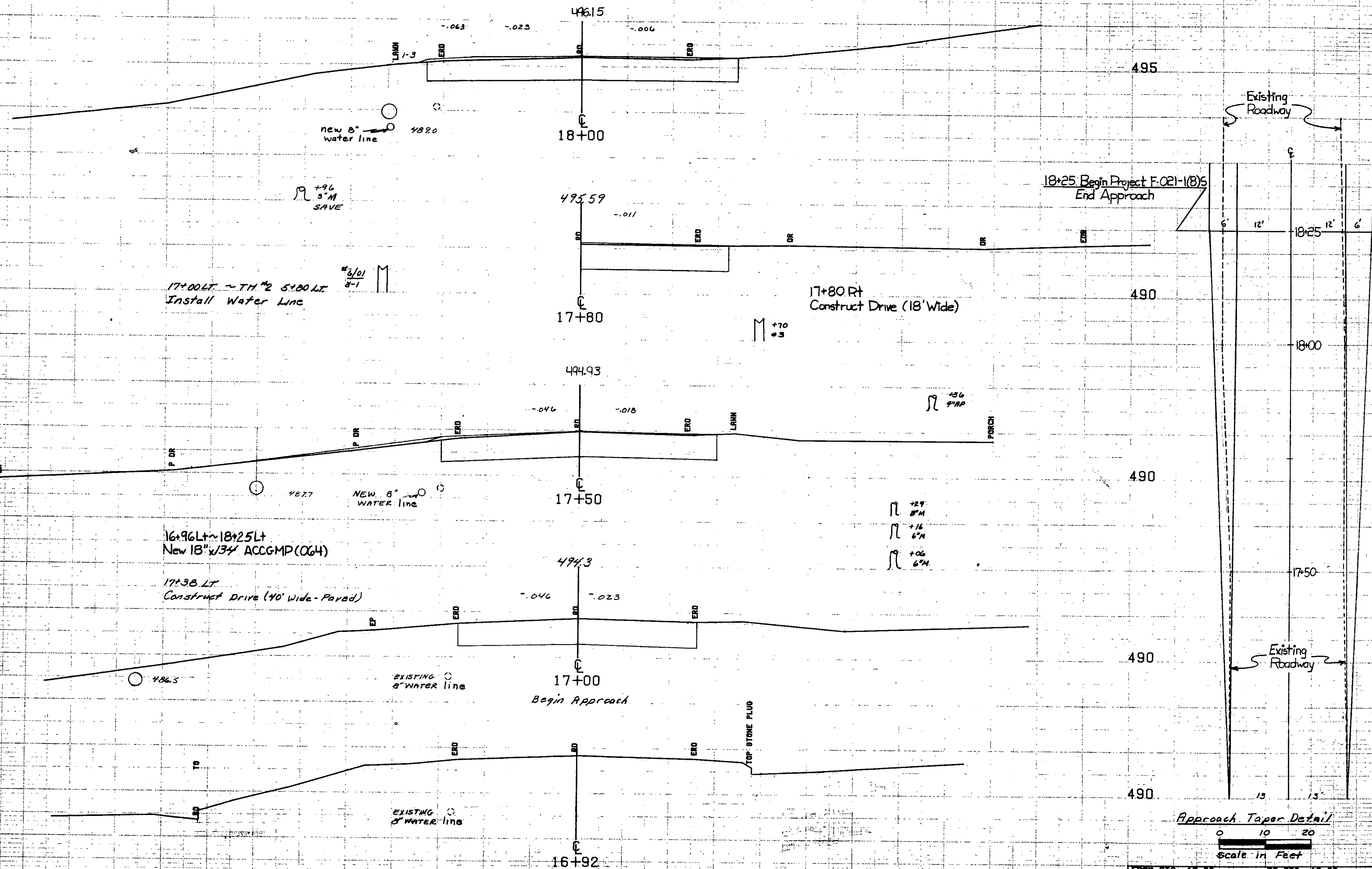
SURVEYED BY _____ DATE _____
DRAWN BY _____ DATE _____
TRACED BY _____ DATE _____

HINESBURG

PROJ. F NO. 021 - 1(8) S
SHEET 21 OF 76

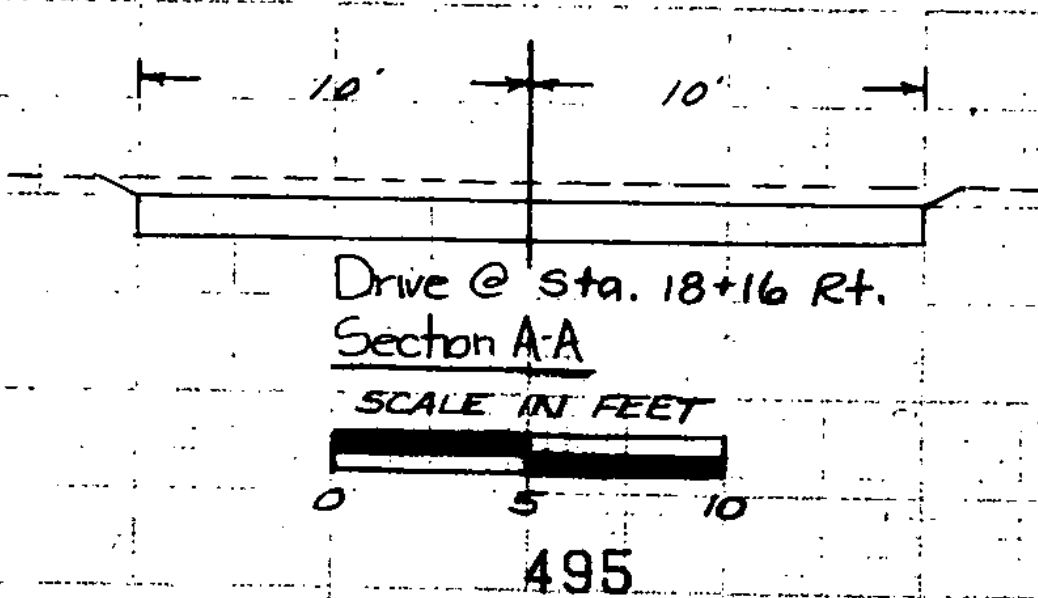
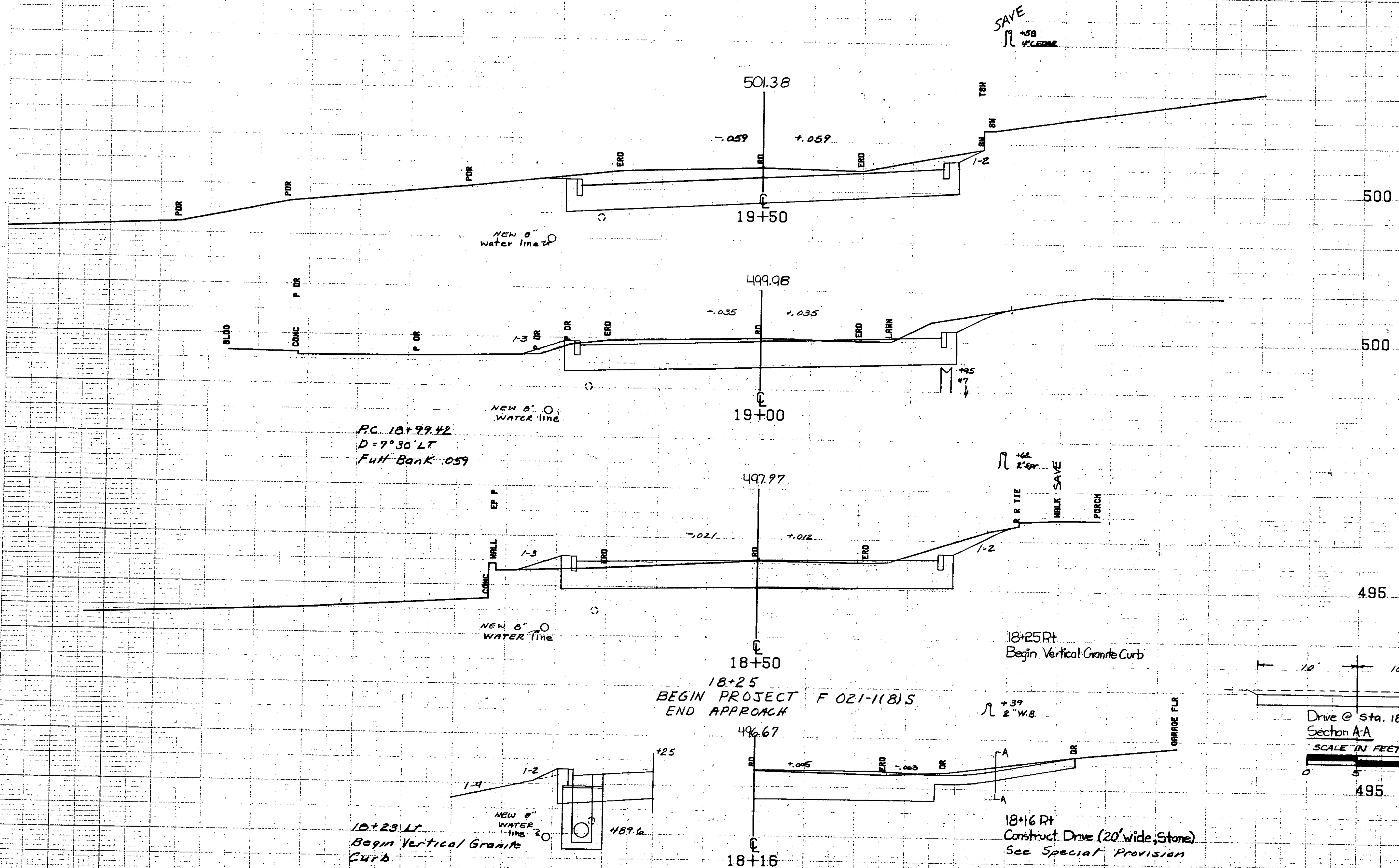


From Sta 16+56 to Sta 16+93.5
 Project Name - Lilesburg Mainline
 No. F-021-1(0)5 Plotted 7-6-83
 Surveyed by Fall June 83
 Sheet 60 of 76 Sheets



FROM STA. 16+92	TO STA. 18+00
PROJECT NAME	HINESBURD MAINLINE
NO.	POST-11036
DRAWN BY	MOORE
CHECKED BY	MOORE
SHEET 61 OF 70 SHEETS	PLOTTED 10/27/88
	JULY 1988

SCALE: 1"=40'



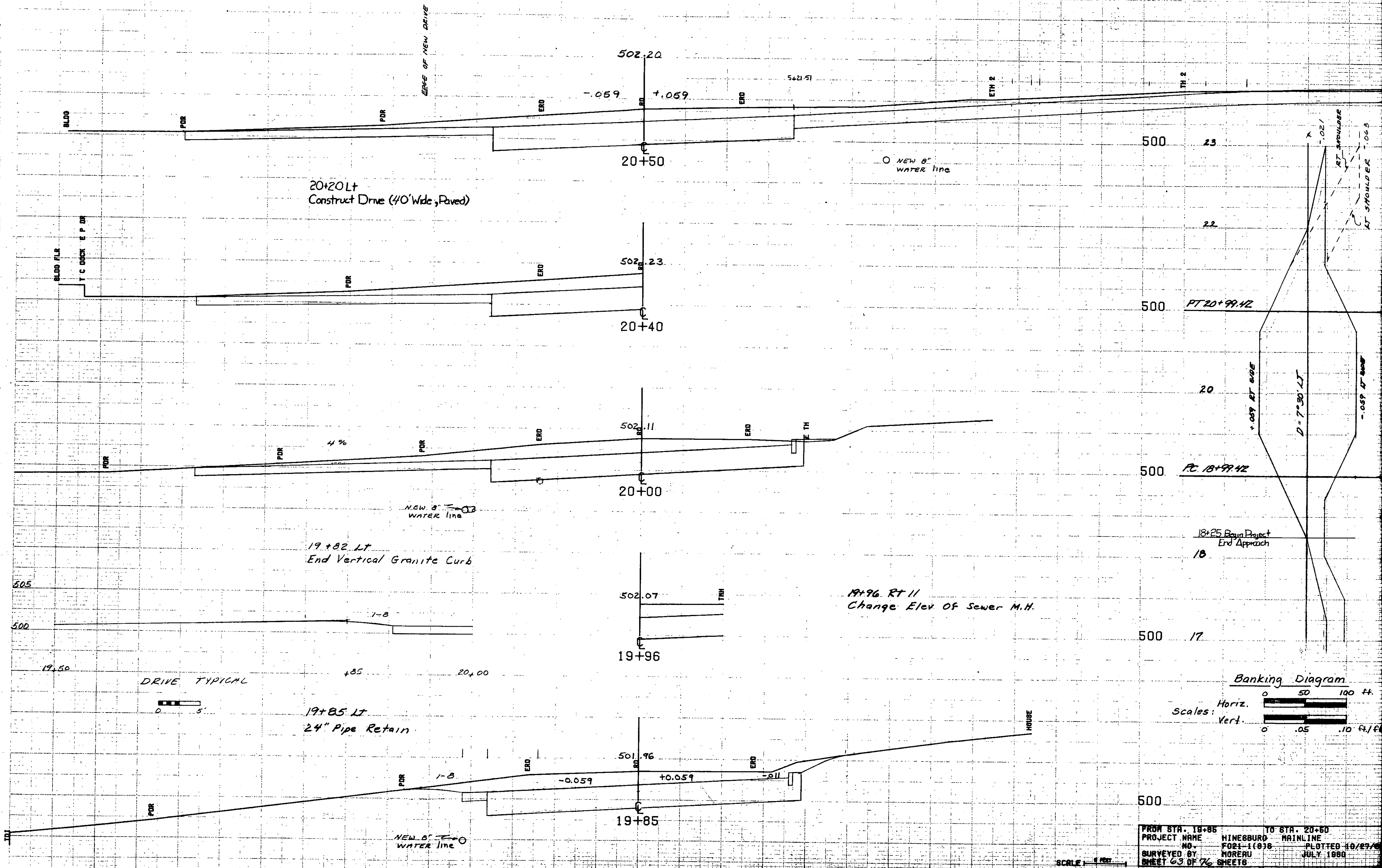
18+23 LT
Begin Vertical Granite
Curb

18+25
BEGIN PROJECT F 021-1(18)S
END APPROACH

18+25 RT
Begin Vertical Granite Curb

18+16 RT
Construct Drive (20' wide, Stone)
See Special Provision

FROM STA. 18+16	TO STA. 18+50
PROJECT NAME	HINESBURD MAINLINE
NO.	F021-1(18)S
SURVEYED BY	MOOREAU
DATE	JULY 1968
SHEET 102 OF 76 SHEETS	



21+48.5 LT ~ 21+58 LT
Guard Rail, Standard Steel Beam
w/ Steel Post Type II

21+36 LT ~ 21+48.5 LT
Guard Rail Approach Section Type II

21+03 LT ~ 21+15.5 LT
Guard Rail Approach
Section Type II

R+35
1" FLOWERING CRAB TREE SAVE OR TRANSPLANT
AS DIRECTED BY THE ENGINEER

20+91 LT ~ 21+03 LT
Guard Rail, Standard Steel
Beam w/ Steel Posts Type II

20+42 LT ~ 21+12 LT
Area To Be Paved For Fire Dept. Use

PT 20+99.42
D=7° 30' LT
Full Bank 0.059' ft/ft

20+30 LT
Existing 30" Pipe - Retain

21+50
21+43.71
END BRIDGE
RESUME ROADWAY

21+34.50
21+24.80
STOP ROADWAY
BEGIN BRIDGE

21+00
M/L POC 20+56.00 =
REV TR#2 P.O.T. 5+03.51

21+52.5 RT ~ 21+64 RT
Guard Rail Approach Section Type II
(w/ G-1d Anchor)

21+21 RT ~ 21+32.5 RT
Guard Rail Approach
Section Type II

21+21 RT ~ 21+34 RT
Guard Rail, Standard Steel Beam
w/ Steel Posts, Type II

21+00 RT
Construct Drive (35' wide)

20+60 RT ~ 23+50 RT
Existing Water Main - Do Not Disturb

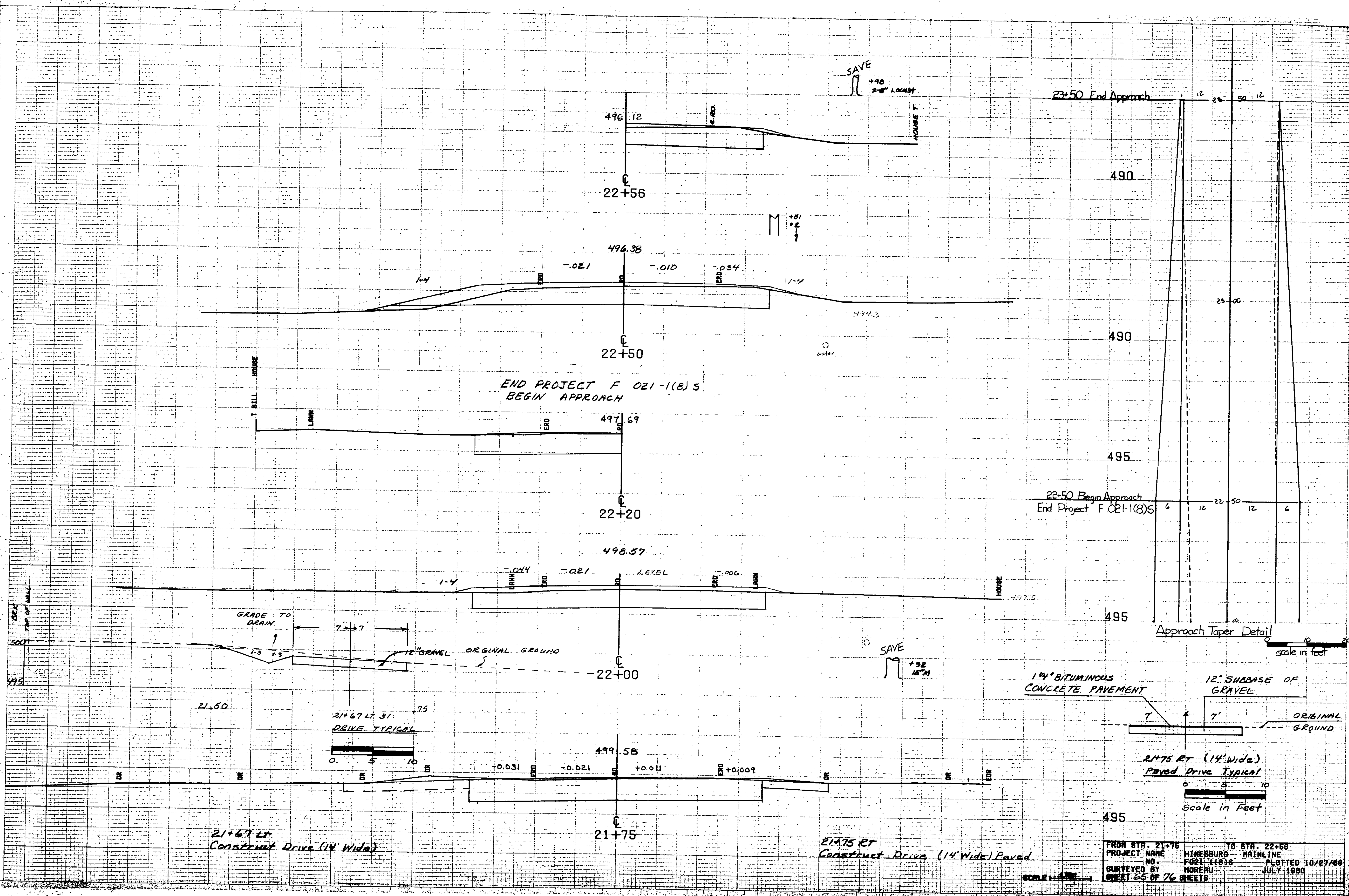
20+59 RT 39
Adjust Elev. of Valve Box

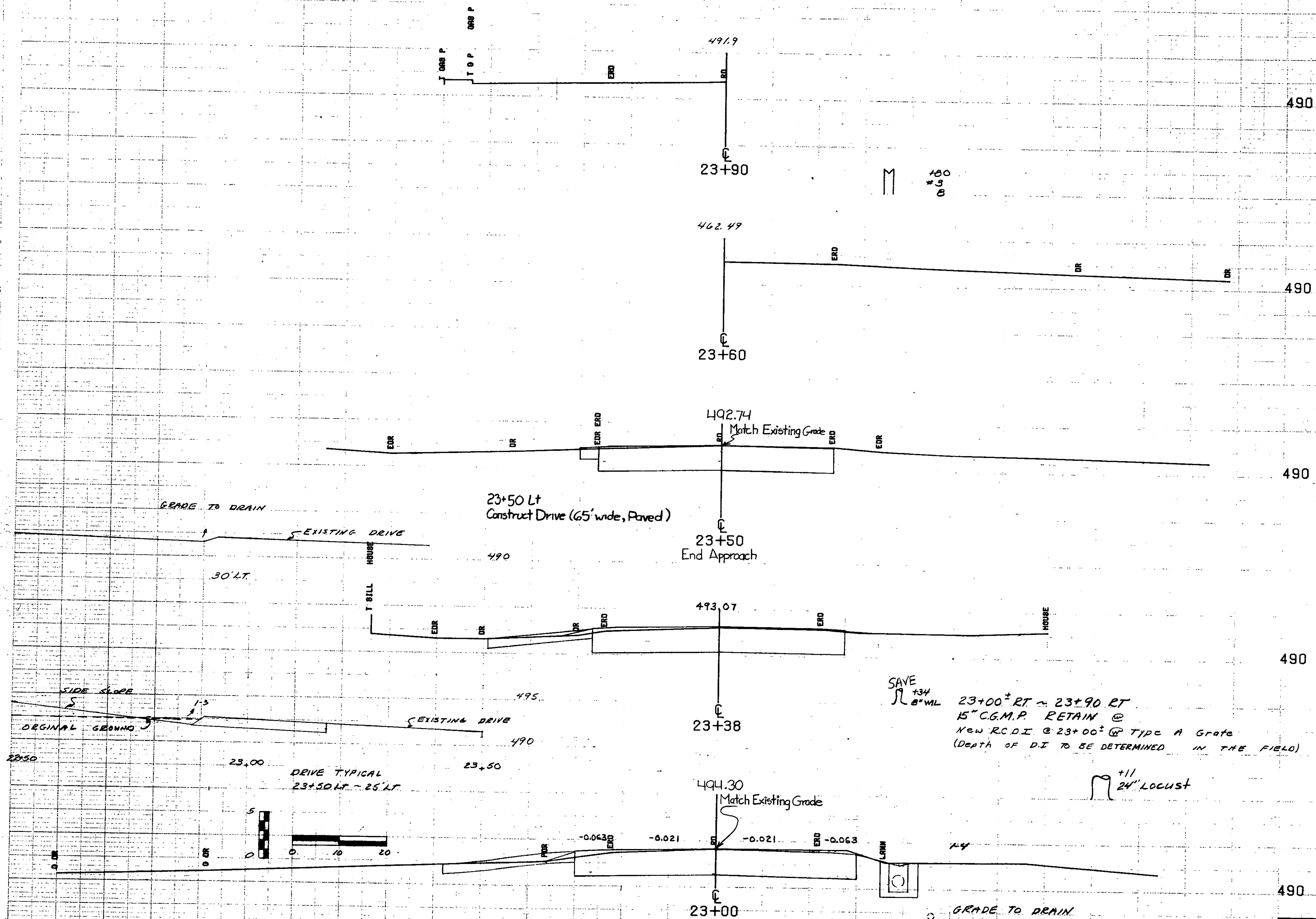
20+56 RT
Construct Approach (TH#2)

Guard Rail Detail

0 20 40
Scale in Feet

FROM STA. 20+55 TO STA. 21+60
PROJECT NAME HINEBURD MAINLINE
NO. F021-11036 PLOTTED 10/27/88
SURVEYED BY MOREAU JULY 1988
SHEET 64 OF 76 SHEETS





SAVE
+34
8" W/L

23+00⁺ RT ~ 23+90 RT
15" C.G.M.P. RETAIN @
New R.C.D.I. @ 23+00⁺ @ Type A Grate
(Depth of D.I. to be determined in the field)

+11
24" Locust

FROM STA. 23+00	TO STA. 23+90
PROJECT NAME	HINEBURD MAINLINE
NO.	F021-1(036)
SURVEYED BY	MOREAU
SHEET 66 OF 76	SHEETS
	PLOTTED 10/27/00
	JULY 1980

SCALE 1" = 40'

505.55

5.51'

Rev 5+64.20

5+65 See Rev 5+64.20 on Sheet 68 of 76 Sheets
 & Rev 5+76 on Sheet 69 of 76 Sheets

5+73 ET.

505

DRIVE TYPICAL



Scale in Feet

504.81'

11.03'

Rev 5+51.00

5+53 See Rev 5+64.20 on Sheet 68 of 76 Sheets

500

504.63

11'

exist. water line
 NEW 8" WATER line

Rev. 2
 5+47.70

5+50 See Rev 5+47.70 on Sheet 68 of 76 Sheets

505

1 1/4" BITUMINOUS CONCRETE PAVEMENT

18" SUBBASE OF GRAVEL

TH #2 TYPICAL SECTION DETAIL



Scale

503.19

23.89'

Rev 5+20.19

exist. water line
 NEW 8" WATER line

5+25 See Rev 5+21.51 on Sheet 68 of 76 Sheets

500

PORCH

17+00 LT - TH #2 5+00 LT
 Install Water Line

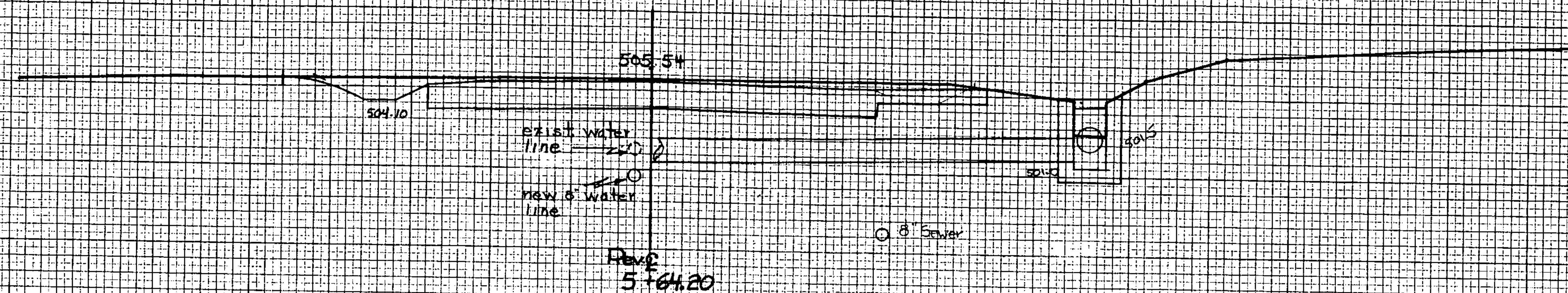
NEW 8" WATER line

5+00

500

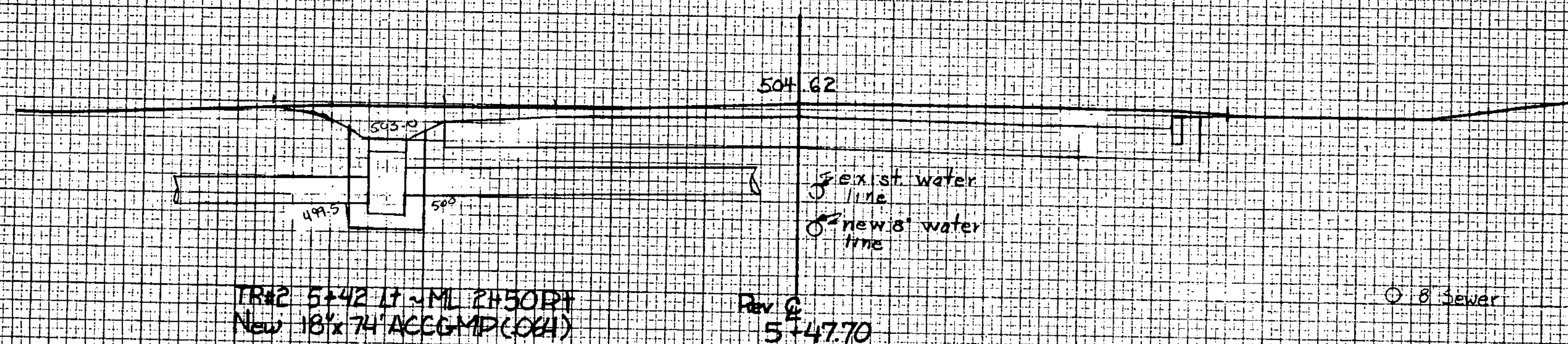
Town Highway #2			
FROM STA. 5+00	TO STA. 5+65		
PROJECT NAME	HINEBURG TH2		
NO.	F021-1(8)38	PLOTTED	10/27/89
SURVEYED BY	MOREAU	JULY	1990
SHEET 67 OF 76 SHEETS			

SCALE 1" = 40'



TR#2 5+42.17 ~ TR#2 5+64.20 RT
New 18"x48" ACCGMP (OG4)

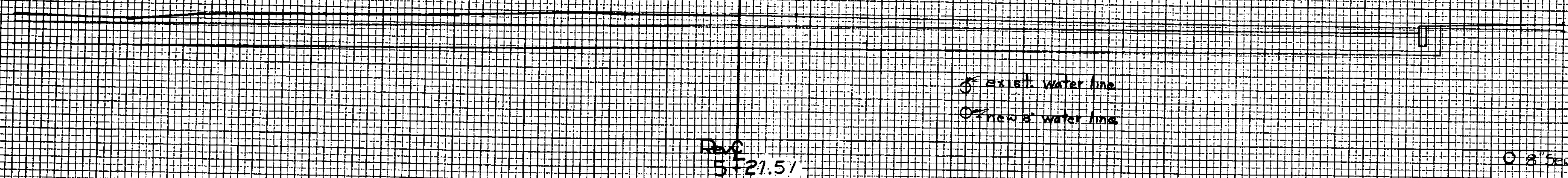
TR#2 5+59 RT
End Vertical Granite Curb



TR#2 5+42.17 ~ ML 2+50 RT
New 18"x74" ACCGMP (OG4)

Rev C
5+47.70

0.8' sewer



Rev C
5+21.51

exist. water line
new 8" water line

0.8' sewer

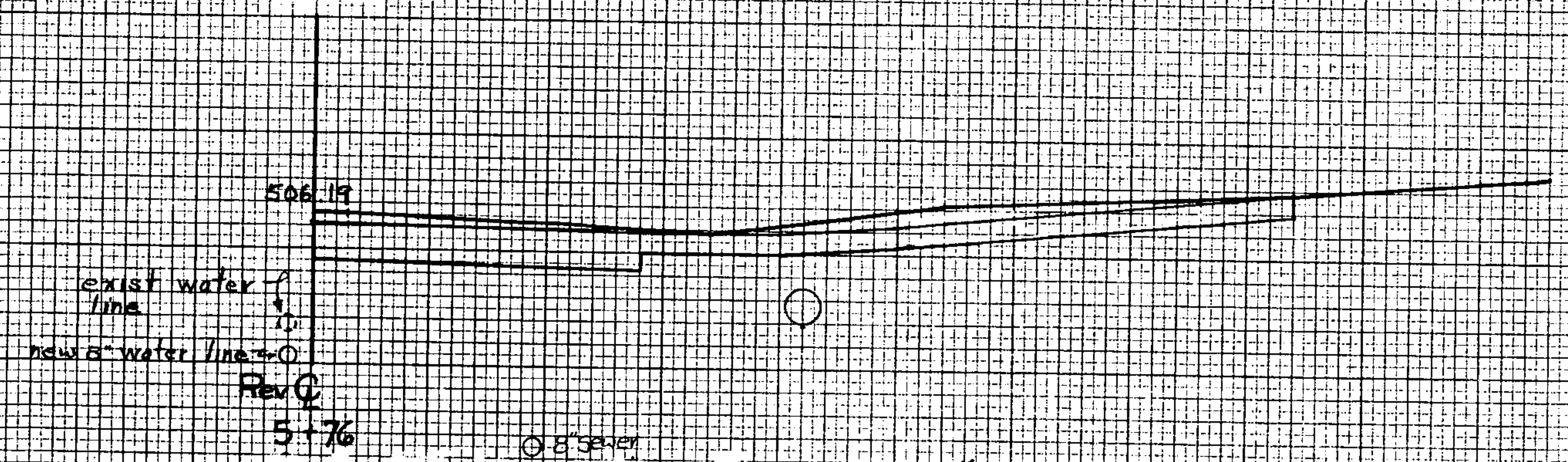


TR#2

500

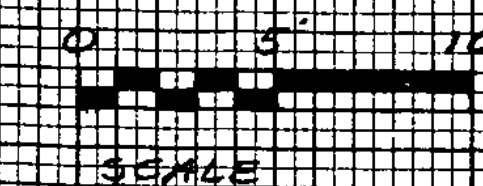
Hinesburg F021-035

Sheet 68 of 76

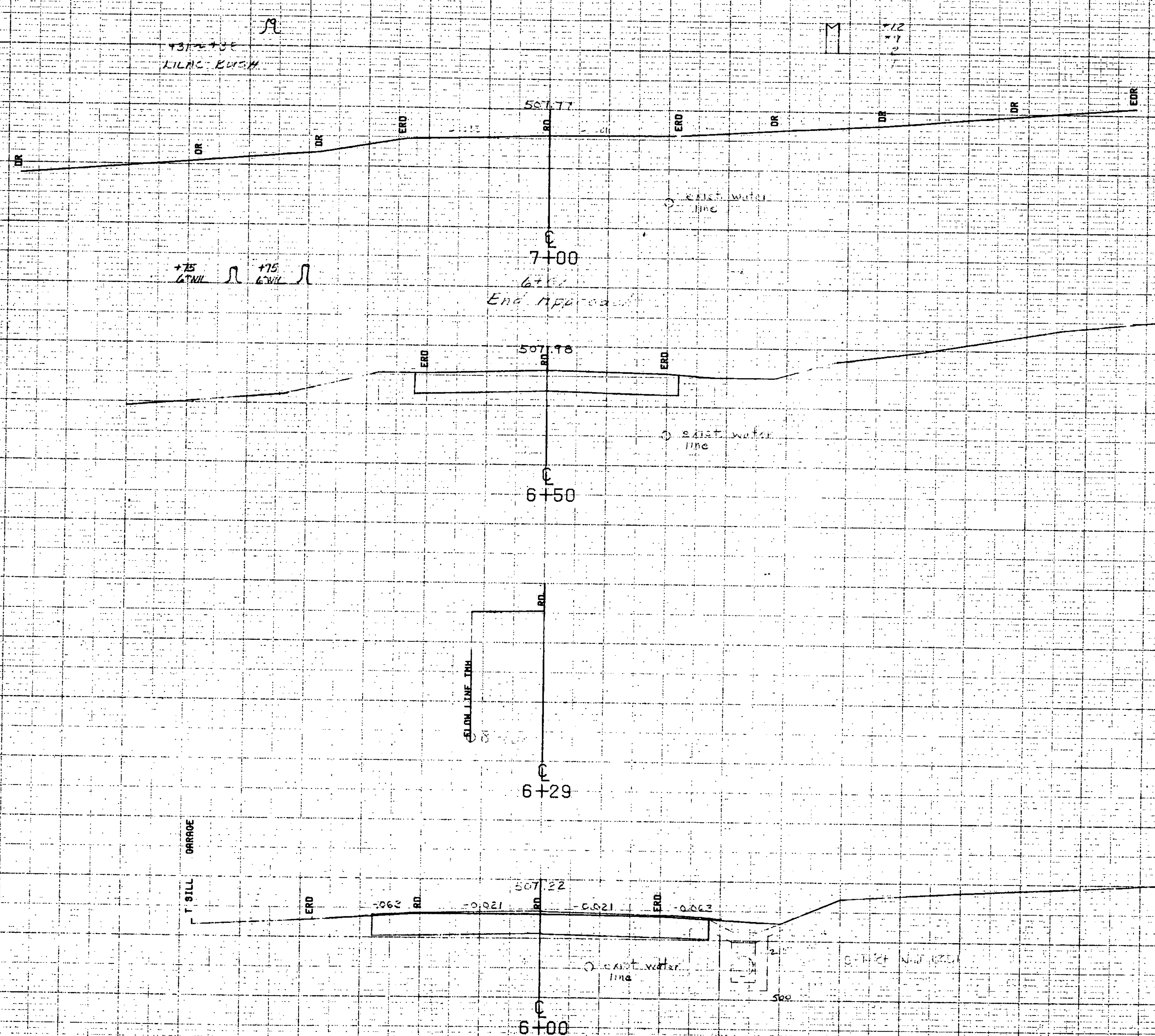


TR *2 5+76 RT.
 Construct Drive (25' Wide)
 Existing 15" C&MP W/RCOT Remove
 New 18" x 32" RCC&MP 0.64

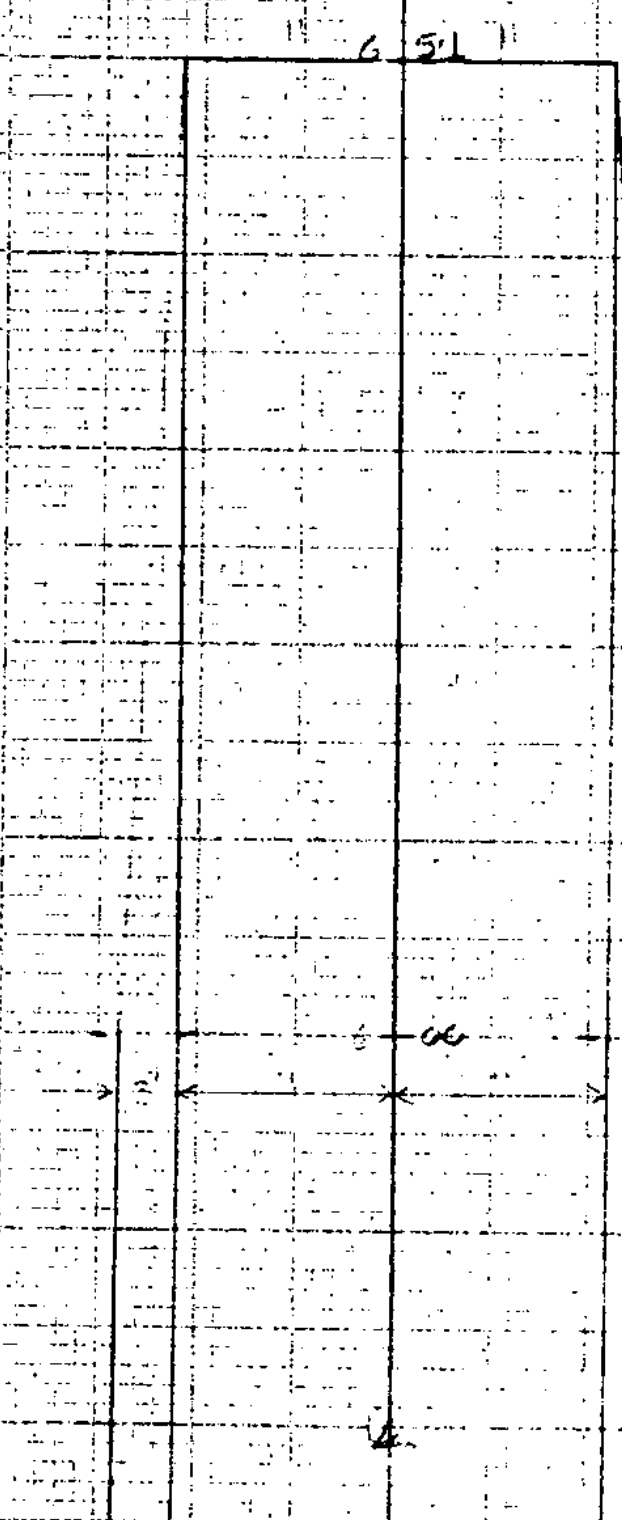
505



Hinesburg East (B) S
 Sheet 69 of 76



505
505
500
505



Approach Terminal Detail
Scale 1" = 10'

FROM STA. 6+00	TO STA. 7+00
PROJECT NAME	HINEGARD TH2
NO.	F021-1(8)S
SURVEYED BY	MOREAU
SHEET 20 OF 76 SHEETS	PLOTTED 10/27/80 JULY 1980

SCALE 1" = 10'

782
 BEGIN HEDGE - SIVE
 END 10' HIGH HEDGE - SIVE

Chan B
 90+75

485.7

485

150 BEGIN
 10' HIGH
 HEDGE
 SIVE

Chan B
 90+50

486.4

485

R
 4' HIGH
 SIVE

Chan B
 90+41.6

486.6

485

CHAN 90+39.87 ~ 92+00.00
 Unclassified Channel Excavation w/
 Stone Fill Type I

Chan B
 90+33

480

Chan B
 90+25

480

Chan B
 92+00

483.7

485

Chan B
 91+50

484.4

485

Chan B
 91+25

484.9

485

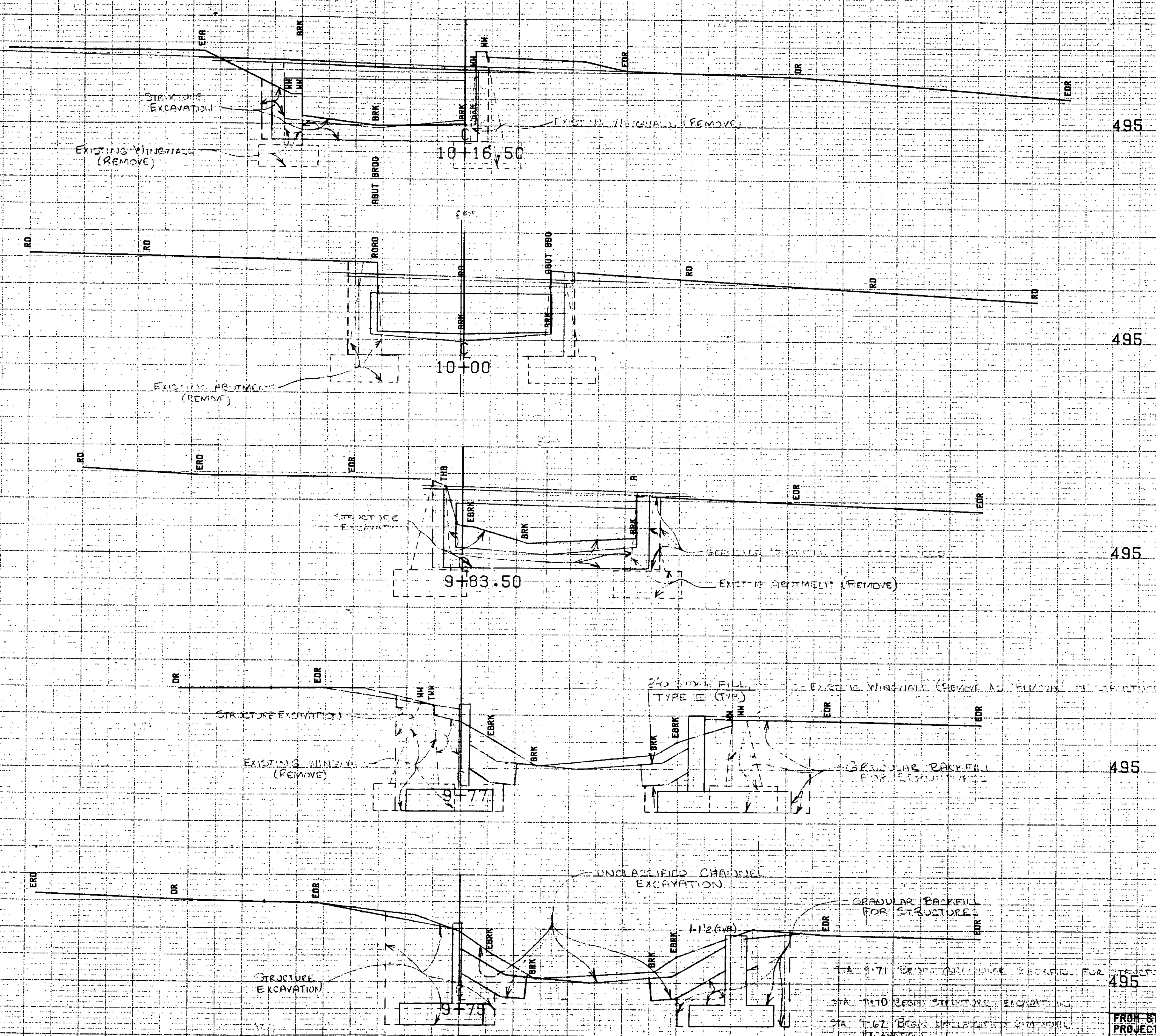
Chan B
 91+00

485.4

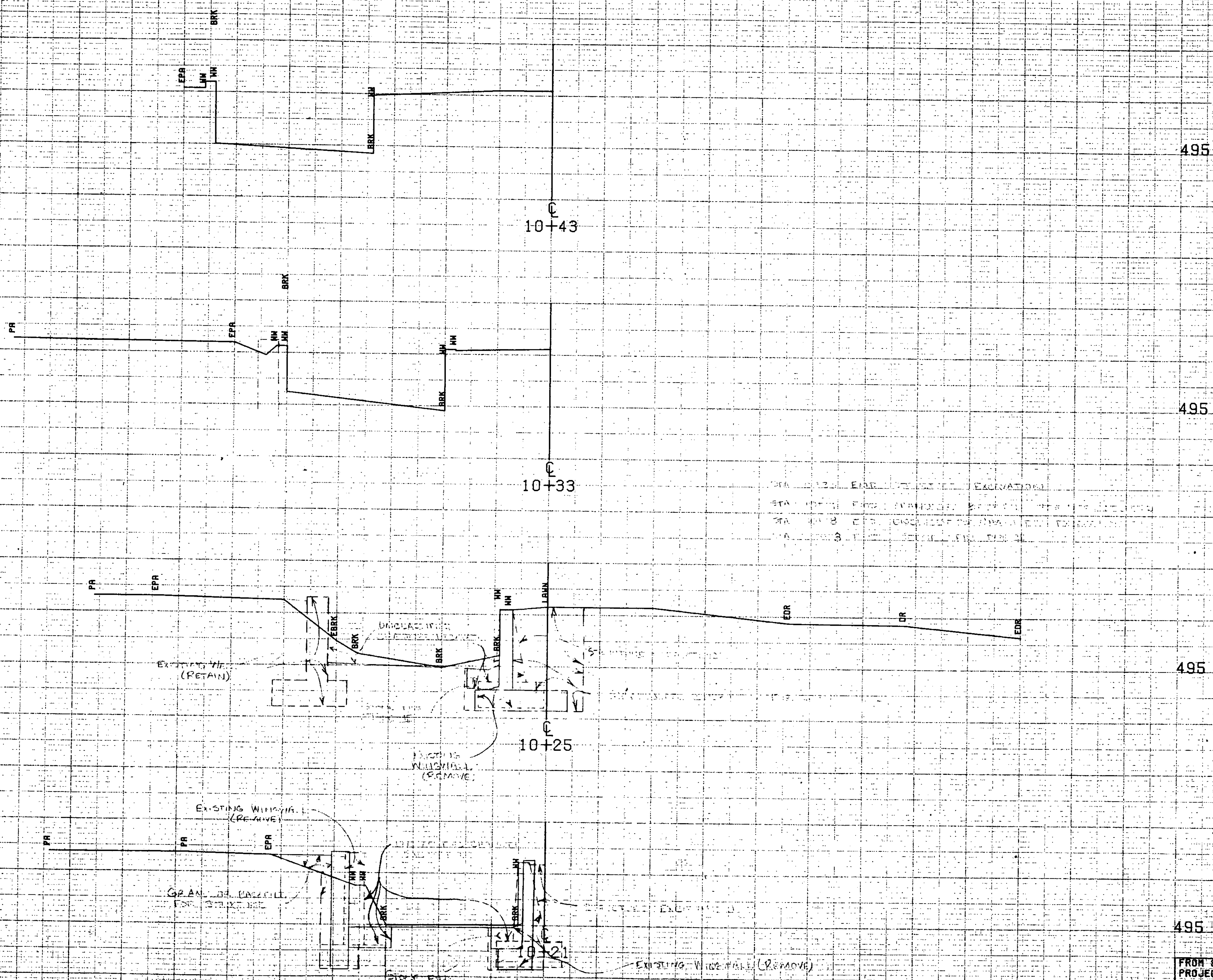
485

Scale in feet

Hinesburg F0211870
 Chan Sections 782
 Sheet 17 of 26 Sheets



FROM STA. 9+76 TO STA. 10+16.60
 PROJECT NAME: MINEBURD CHANNEL
 NO. 1021-1-076
 SURVEYED BY: MOREAU
 SHEET 1 OF 2
 PLOTTED 10/27/89
 JULY 1988
 SCALE: 1" = 20'

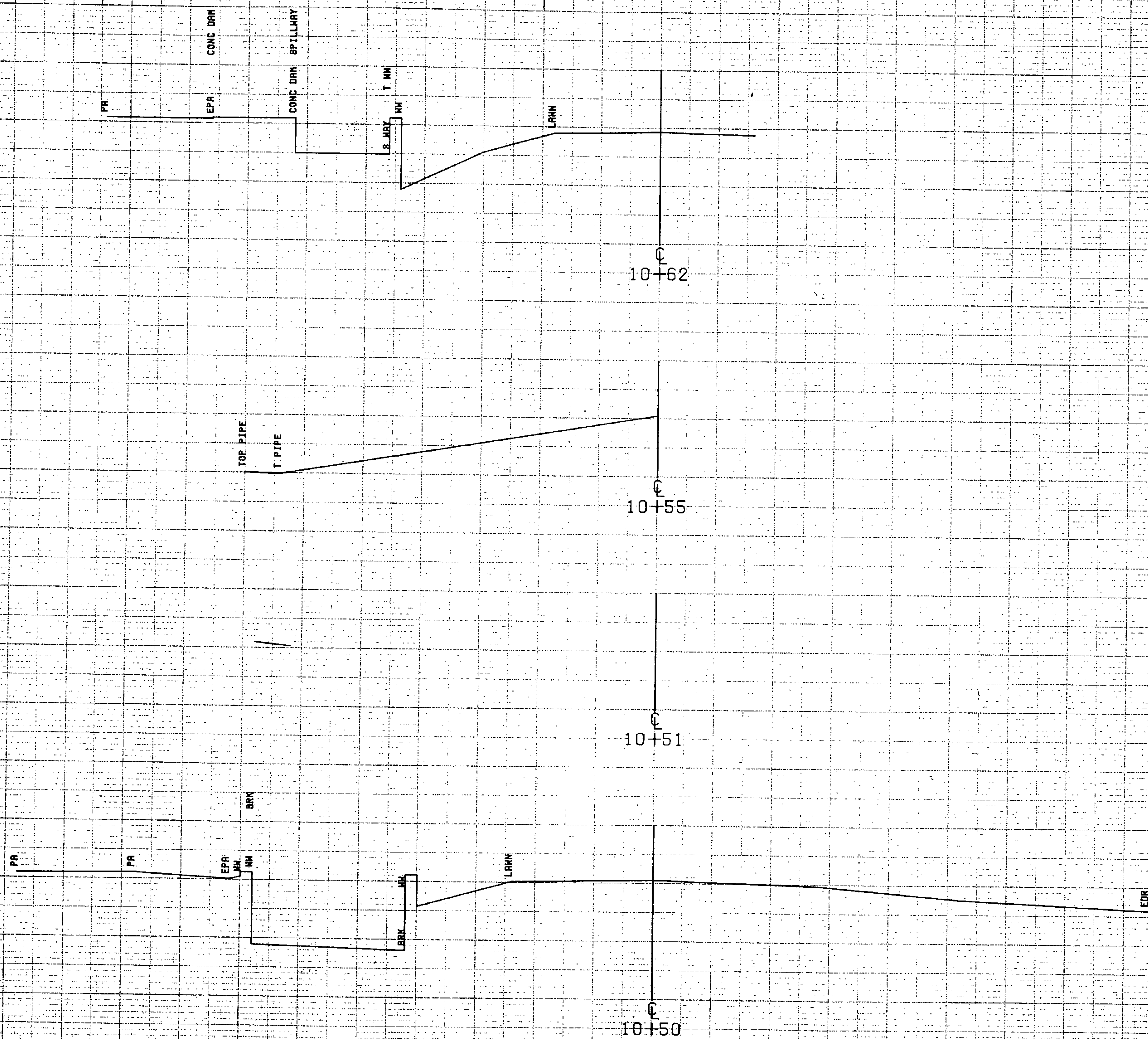


FROM STA. 10+21 TO STA. 10+43
 STA. 10+21 EPR UNCHANGED
 STA. 10+25 EPR UNCHANGED
 STA. 10+33 EPR UNCHANGED
 STA. 10+43 EPR UNCHANGED

495
 495
 495
 495

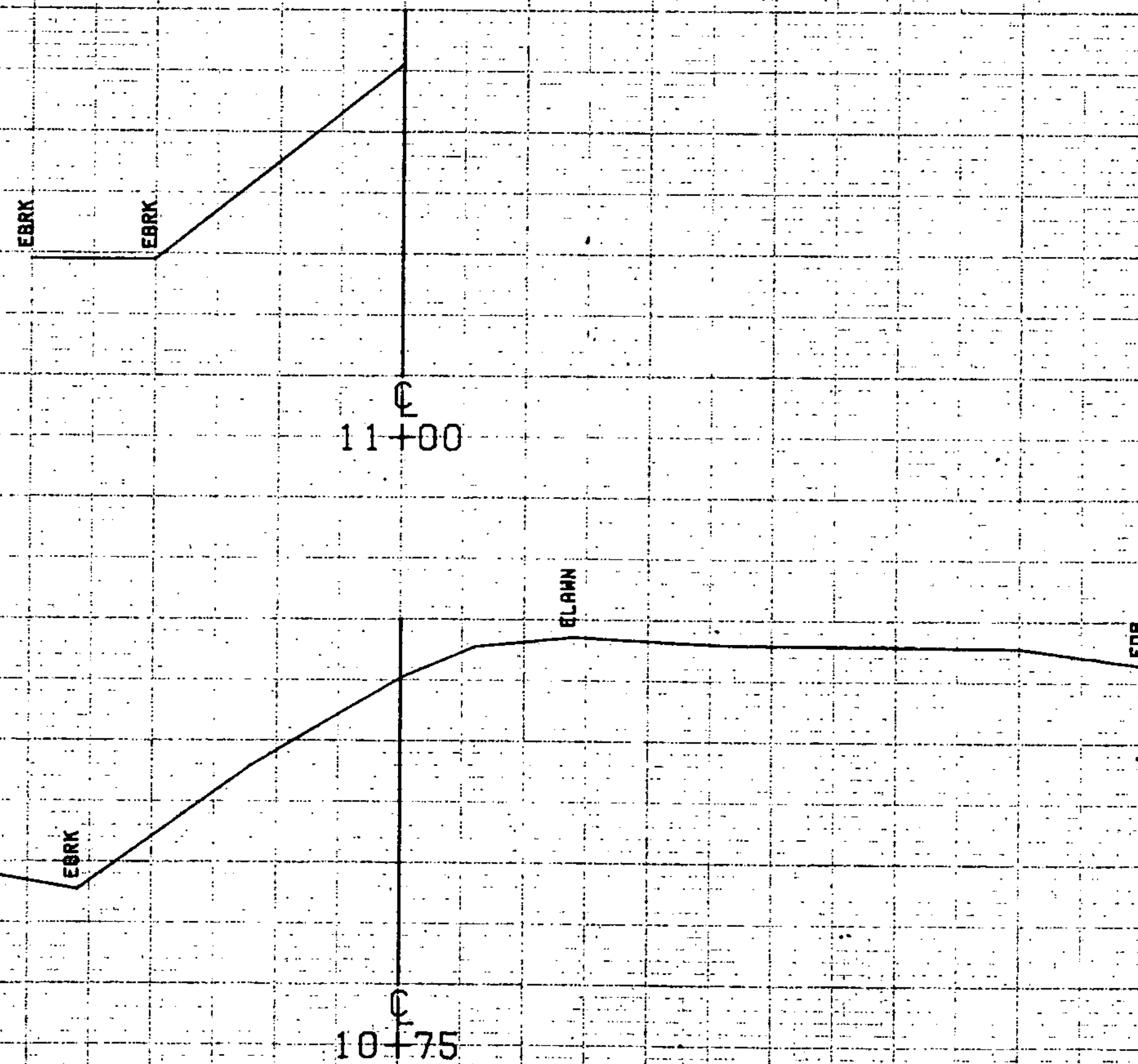
FROM STA. 10+21 TO STA. 10+43
 PROJECT NAME: MINESBURD CHANNEL
 NO. F021-1035
 SURVEYED BY: MOREAU
 SHEETS: 10 OF 10
 PLOTTED: 10/27/60
 JULY 1960

SCALE: 1" = 100'



SCALE 1" = 10'

FROM STA. 10+50	TO STA. 10+62
PROJECT NAME	HINESBURG CHANNEL
NO.	FO21-1(8)S
SURVEYED BY	MOREAU
SHEET	10 OF 10
DATE	JULY 1980



485

490

SCALE 1" = 10'

FROM STA. 10+75	TO STA. 11+00
PROJECT NAME	HINEBURY CHANNEL
NO.	F021-1(8)8
SURVEYED BY	MOREAU
SHEET NO. OF SHEETS	76 4/ 78
	PLOTTED 10/27/88
	JULY 1980