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LIST OF STANDARDS

E-100	1/6/97
E-101	3/10/97
E-102	8/8/95
E-107	8/8/95
E-107A	8/8/95
G-1	1/3/00
G-1d	1/3/00
SB-R6-82	1/6/95
SB-R7-90	1/11/95
T-1	6/1/94
T-2	6/1/94

RECORD PLANS

CONTRACTOR: R.C. CONTRACTORS INC. - GLOVER VT  
 RESIDENT ENGINEER: M. CLARE  
 CONSTRUCTION BEGAN: AUGUST 16, 2001  
 CONSTRUCTION COMPLETE: JUNE 10, 2002  
 RECORD PLANS BY: R. RICHERT

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.  
 BY: *Kevin M. Clare* RESIDENT ENGINEER  
 DATE: 10-3-03

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

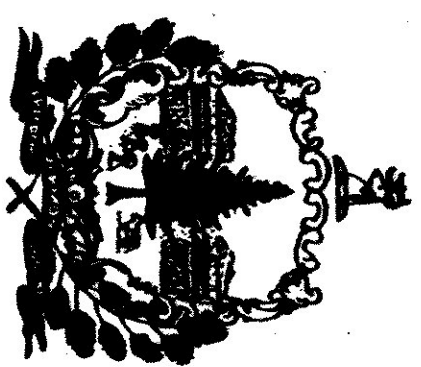
- CONVENTIONAL SIGNS
- COUNTY LINE
  - TOWN LINE
  - LIMITS OF ACCESS
  - POINT OF ACCESS
  - FENCE LINE
  - STONE WALL
  - TRAVELED WAY
  - RAILROAD
  - RAILROAD
  - SURVEY LINE
  - CULVERT
  - POWER POLE
  - TELEPHONE POLE
  - TREES
  - CONTROL OF ACCESS
  - PROPERTY LINE
  - R.O.W. TAKING LINE
  - SLOPE TAKING LINE
  - TOE OF CUT
  - TOE OF SLOPE

TRAFFIC DATA

1991 ADT = 220  
 1991 DHT = 300  
 2001 ADT = 200  
 2001 DHT = 40  
 % D < 40  
 % D < 65  
 V = 30 MPH

DATUM  
 VERTICAL 1929 NGVD  
 HORIZONTAL ASSUMED

STATE OF VERMONT  
 AGENCY OF TRANSPORTATION



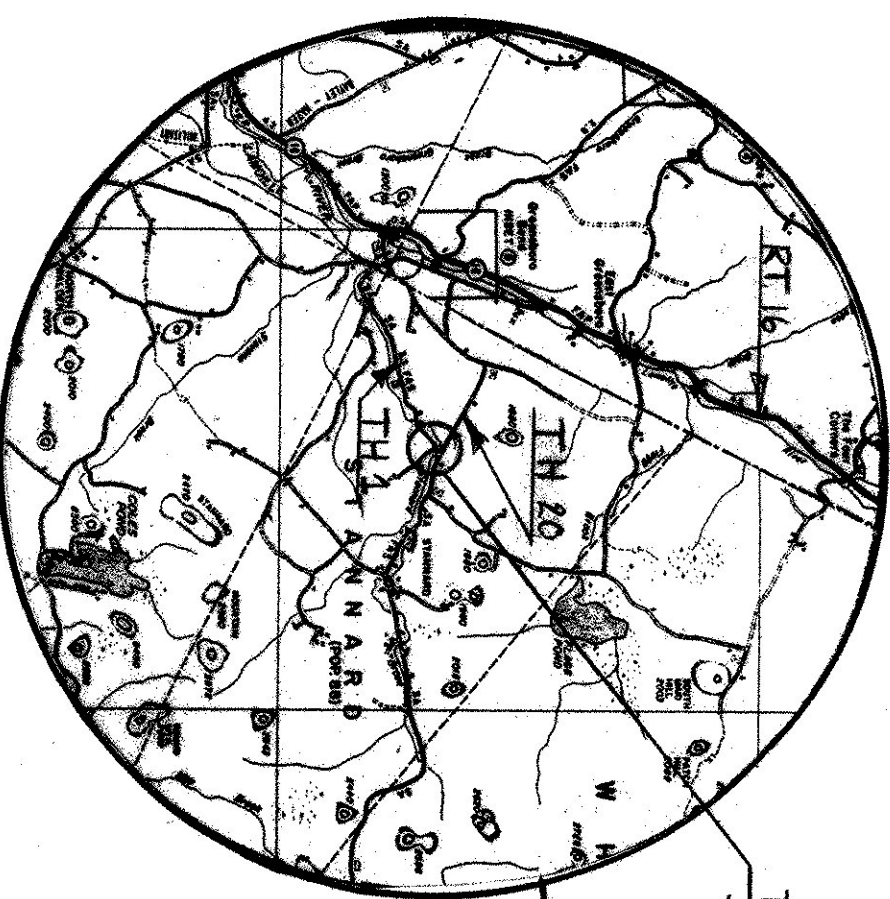
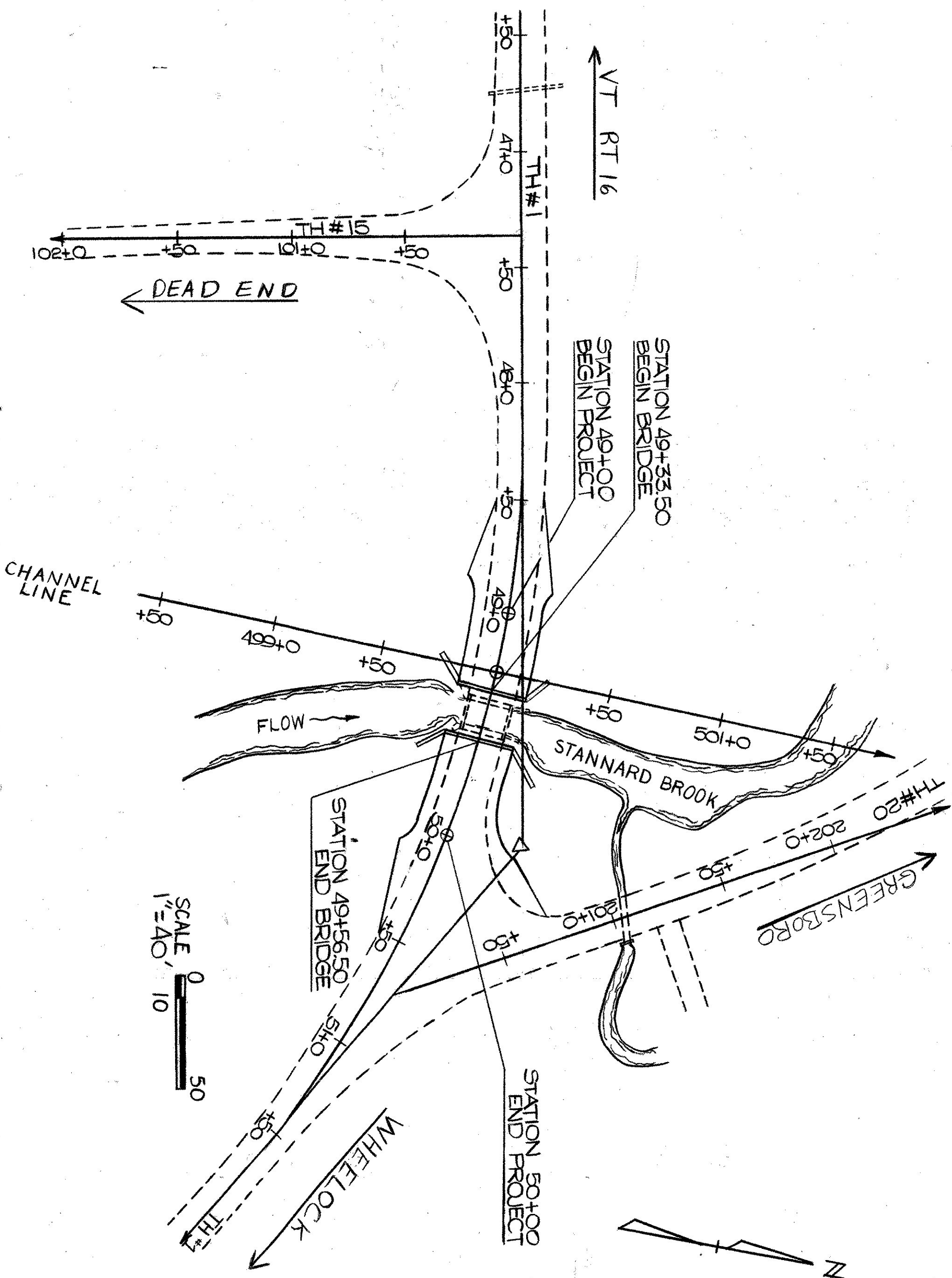
PROPOSED IMPROVEMENT  
 BRIDGE PROJECT

TOWN OF STANNARD  
 COUNTY OF CALEDONIA

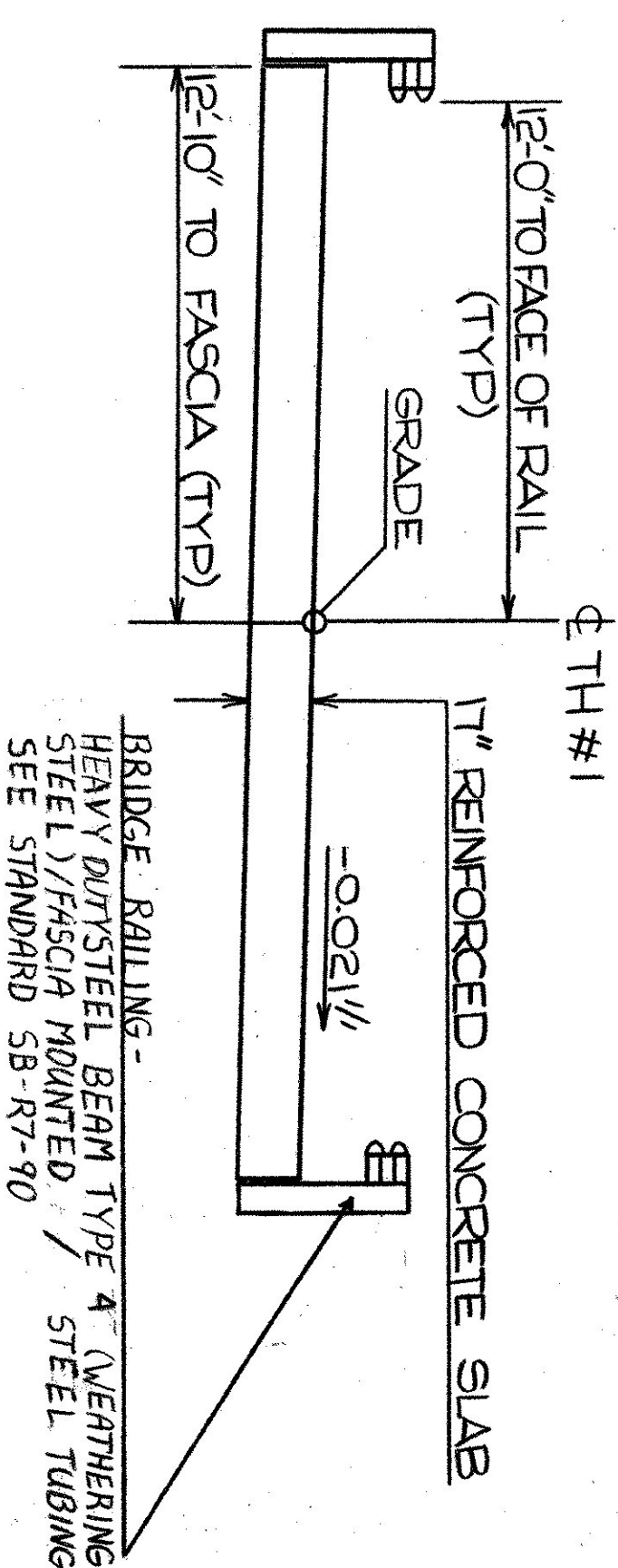
ROUTE NO: TH1 (CL2) BRIDGE NO: 6

PROJECT LOCATION: BEGINNING AT A POINT APPROX 1.34 MILES NORTHEASTERLY FROM THE WALDEN TOWN LINE AND PROCEEDING ALONG A NORTHEASTERLY LINE FOR 0.010 MILES.  
 PROJECT DESCRIPTION: PROJECT SHALL CONSIST OF CONSTRUCTION OF A NEW STRUCTURE ALONG WITH RELATED ROADWAY APPROACH AND CHANNEL WORK

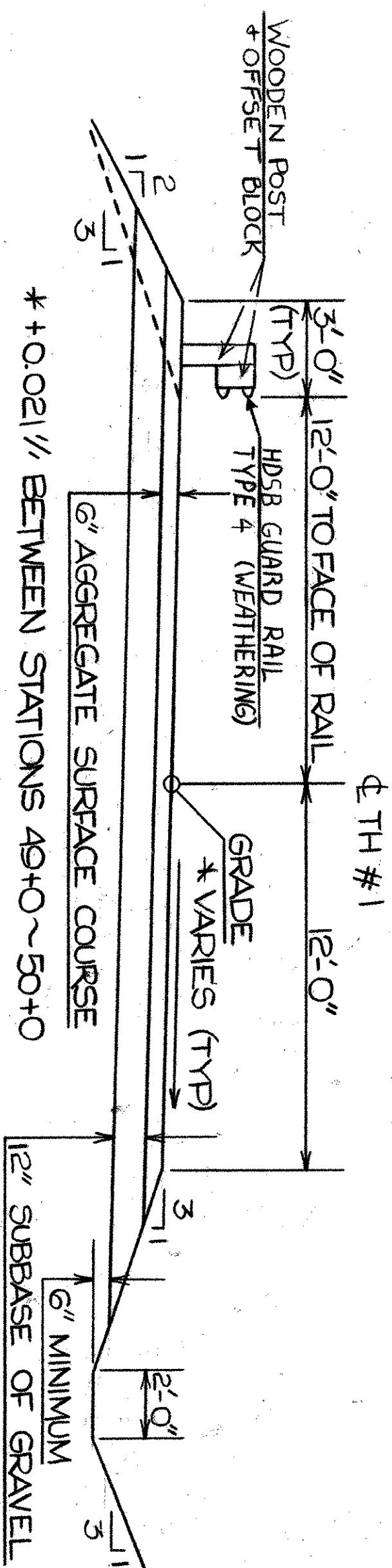
LENGTH OF STRUCTURE: 23.00 FEET  
 LENGTH OF ROADWAY: 77.00 FEET  
 LENGTH OF PROJECT: 100.00 FEET



LOCATION MAP  
 (TRACED FROM COUNTY MAP)



TYPICAL BRIDGE SECTION  
 SCALE: 1/4" = 1'-0"



TYPICAL ROADWAY SECTION  
 SCALE: 1/4" = 1'-0"

MATERIAL TOLERANCE  
 AGG. SURFACE COURSE ±1"  
 SUBBASE ±1"

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER 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.

APPROVED: <i>[Signature]</i> DATE: 10/27/01 DIRECTOR OF ENGINEERING	PROJECT NO. STANNARD TH2-8919
SHEET 1 OF 21	SUB SHEETS

### 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
15.0	3.0	RED TOP	95	90
5.0	3.0	BIRDFOOT TREFOIL	95	85
5.0	3.0	ANNUAL REGRASS	95	85
100.0	60.0			

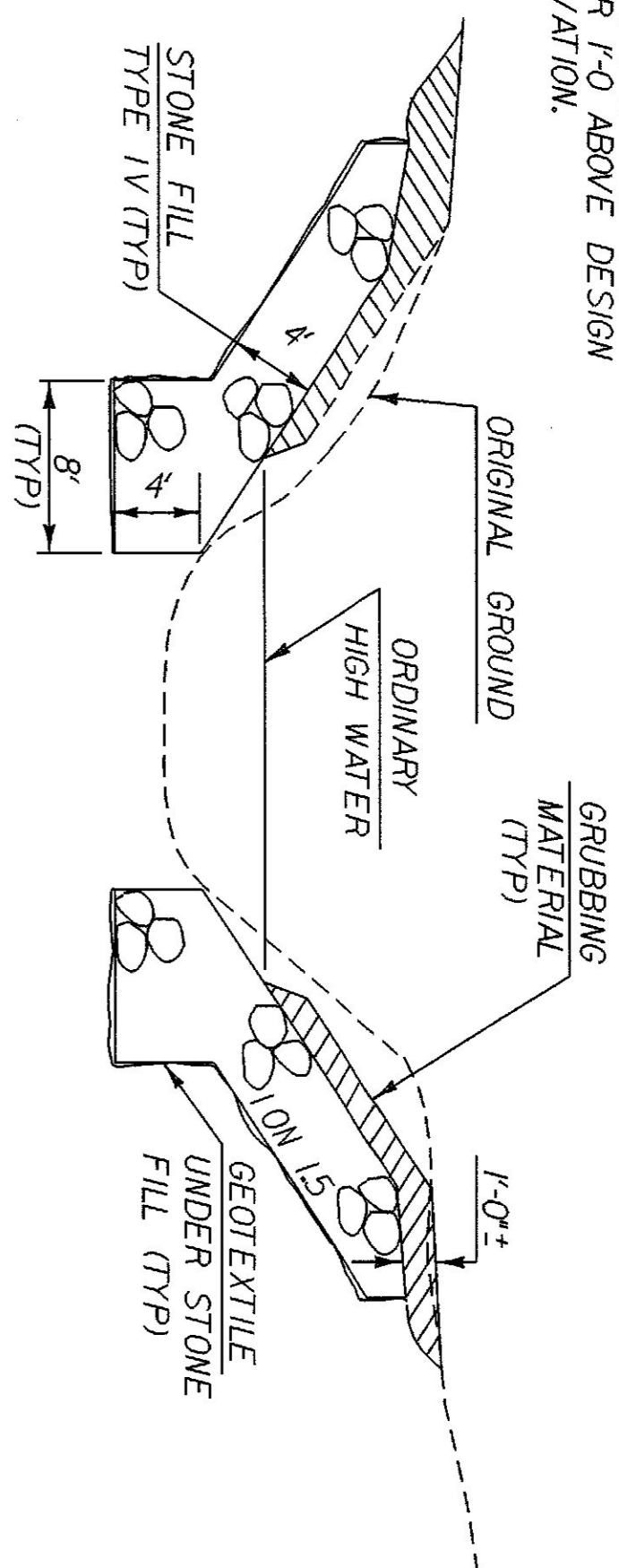
#### GENERAL NOTES

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

#### NOTES

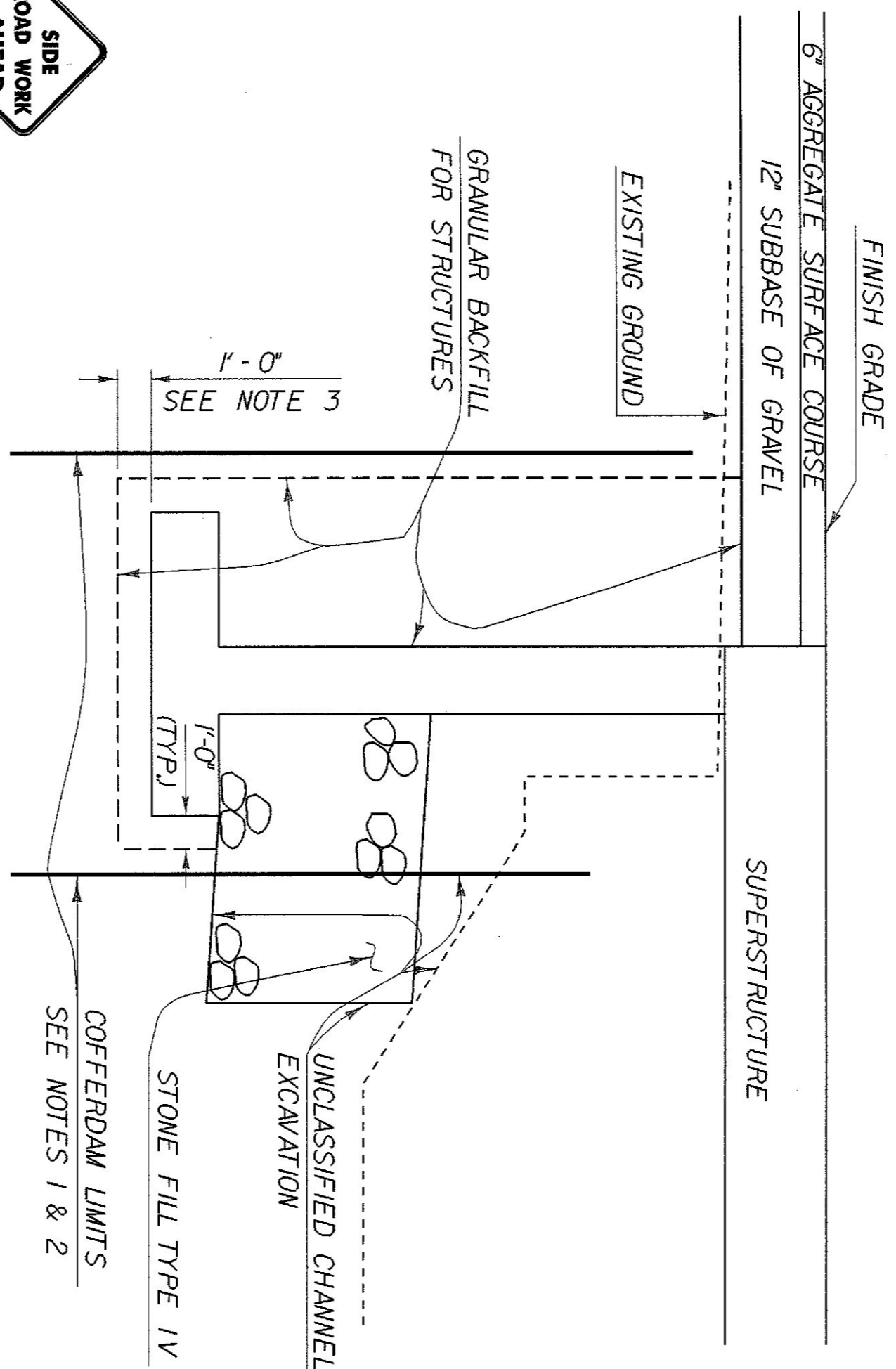
1. COFFERDAM LIMITS TO BE DETERMINED BY THE CONTRACTOR.
2. FOR PURPOSES OF ESTIMATING EARTHWORK QUANTITIES, THE LIMITS OF COFFERDAM HAVE BEEN ASSUMED TO BE 1'-0" OUTSIDE THE PERIMETER OF THE FOOTING.
3. ONE FOOT UNDERCUT AS DETERMINED NECESSARY BY THE RESIDENT ENGINEER.
4. IF A COFFERDAM IS CONSTRUCTED WHICH IS MORE THAN THE INDICATED MINIMUM DISTANCE OUTSIDE THE FOOTING LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE MINIMUM COFFERDAM LIMITS SHOWN WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION.

CONTINUE STONE FILL TO ORIGINAL GROUND OR 1'-0" ABOVE DESIGN FLOW ELEVATION.



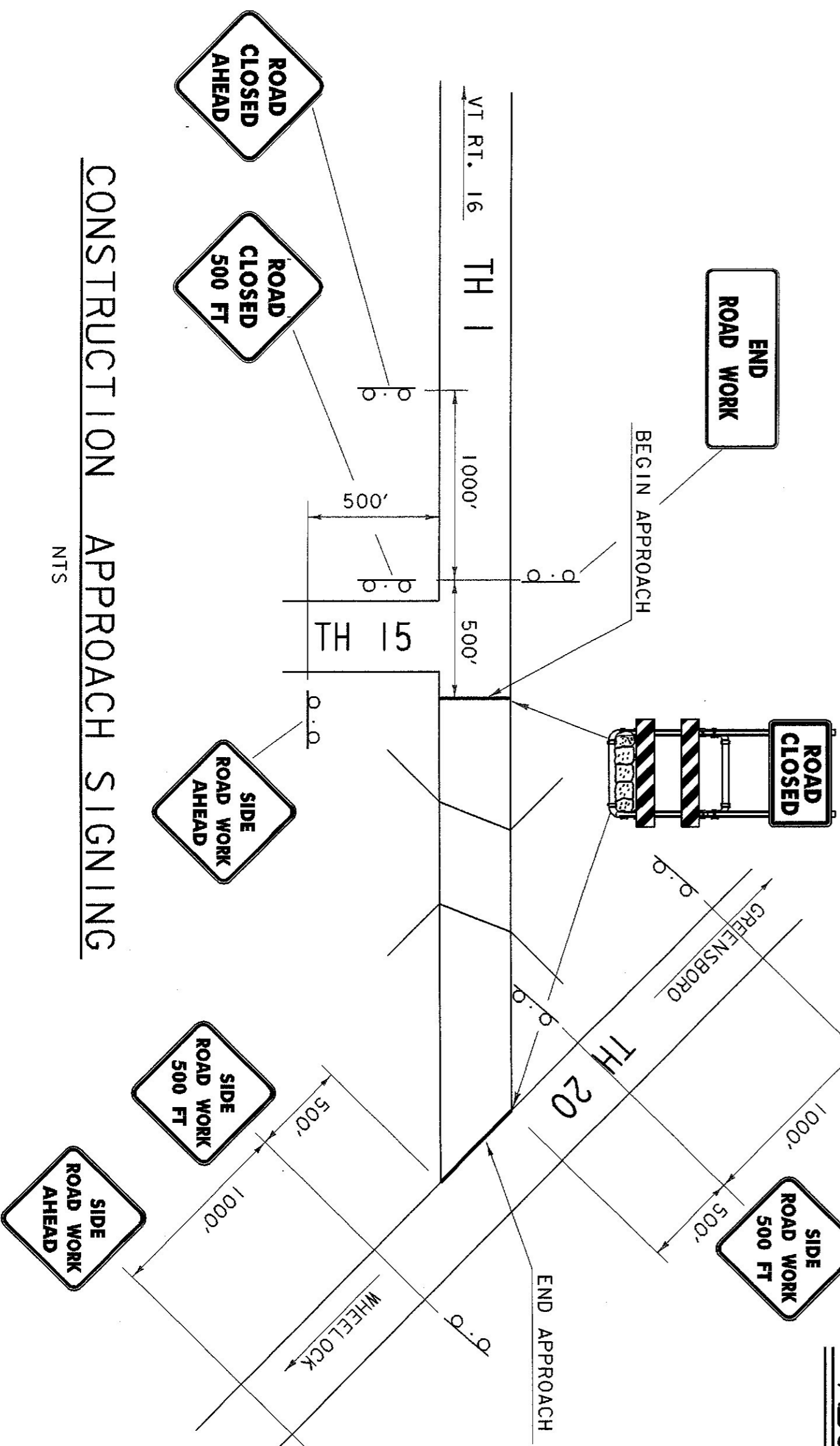
#### TYPICAL CHANNEL SECTION

NTS



#### ABUTMENT EARTHWORK TYPICAL

NOT TO SCALE



#### EXISTING STRUCTURE

1. STRUCTURE TYPE	CONCRETE SLAB BRIDGE	OVERALL LENGTH	67	INVENTORY RATING
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	13.75			
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	11.50			
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	147.00	7'-7.33 SQ. FT.	VERTICAL CLEARANCE ABOVE STREAMBED	7'
5. WATER SURFACE ELEVATION @ 0.2, 2.33, 4.67, 7.00, 9.33, 11.67, 14.00, 16.33, 18.67, 21.00, 23.33, 25.67, 28.00, 30.33, 32.67, 35.00, 37.33, 39.67, 42.00, 44.33, 46.67, 49.00, 51.33, 53.67, 56.00, 58.33, 60.67, 63.00, 65.33, 67.67, 70.00, 72.33, 74.67, 77.00, 79.33, 81.67, 84.00, 86.33, 88.67, 91.00, 93.33, 95.67, 98.00, 100.33, 102.67, 105.00, 107.33, 109.67, 112.00, 114.33, 116.67, 119.00, 121.33, 123.67, 126.00, 128.33, 130.67, 133.00, 135.33, 137.67, 140.00, 142.33, 144.67, 147.00, 149.33, 151.67, 154.00, 156.33, 158.67, 161.00, 163.33, 165.67, 168.00, 170.33, 172.67, 175.00, 177.33, 179.67, 182.00, 184.33, 186.67, 189.00, 191.33, 193.67, 196.00, 198.33, 200.67, 203.00, 205.33, 207.67, 210.00, 212.33, 214.67, 217.00, 219.33, 221.67, 224.00, 226.33, 228.67, 231.00, 233.33, 235.67, 238.00, 240.33, 242.67, 245.00, 247.33, 249.67, 252.00, 254.33, 256.67, 259.00, 261.33, 263.67, 266.00, 268.33, 270.67, 273.00, 275.33, 277.67, 280.00, 282.33, 284.67, 287.00, 289.33, 291.67, 294.00, 296.33, 298.67, 301.00, 303.33, 305.67, 308.00, 310.33, 312.67, 315.00, 317.33, 319.67, 322.00, 324.33, 326.67, 329.00, 331.33, 333.67, 336.00, 338.33, 340.67, 343.00, 345.33, 347.67, 350.00, 352.33, 354.67, 357.00, 359.33, 361.67, 364.00, 366.33, 368.67, 371.00, 373.33, 375.67, 378.00, 380.33, 382.67, 385.00, 387.33, 389.67, 392.00, 394.33, 396.67, 399.00, 401.33, 403.67, 406.00, 408.33, 410.67, 413.00, 415.33, 417.67, 420.00, 422.33, 424.67, 427.00, 429.33, 431.67, 434.00, 436.33, 438.67, 441.00, 443.33, 445.67, 448.00, 450.33, 452.67, 455.00, 457.33, 459.67, 462.00, 464.33, 466.67, 469.00, 471.33, 473.67, 476.00, 478.33, 480.67, 483.00, 485.33, 487.67, 490.00, 492.33, 494.67, 497.00, 499.33, 501.67, 504.00, 506.33, 508.67, 511.00, 513.33, 515.67, 518.00, 520.33, 522.67, 525.00, 527.33, 529.67, 532.00, 534.33, 536.67, 539.00, 541.33, 543.67, 546.00, 548.33, 550.67, 553.00, 555.33, 557.67, 560.00, 562.33, 564.67, 567.00, 569.33, 571.67, 574.00, 576.33, 578.67, 581.00, 583.33, 585.67, 588.00, 590.33, 592.67, 595.00, 597.33, 599.67, 602.00, 604.33, 606.67, 609.00, 611.33, 613.67, 616.00, 618.33, 620.67, 623.00, 625.33, 627.67, 630.00, 632.33, 634.67, 637.00, 639.33, 641.67, 644.00, 646.33, 648.67, 651.00, 653.33, 655.67, 658.00, 660.33, 662.67, 665.00, 667.33, 669.67, 672.00, 674.33, 676.67, 679.00, 681.33, 683.67, 686.00, 688.33, 690.67, 693.00, 695.33, 697.67, 700.00, 702.33, 704.67, 707.00, 709.33, 711.67, 714.00, 716.33, 718.67, 721.00, 723.33, 725.67, 728.00, 730.33, 732.67, 735.00, 737.33, 739.67, 742.00, 744.33, 746.67, 749.00, 751.33, 753.67, 756.00, 758.33, 760.67, 763.00, 765.33, 767.67, 770.00, 772.33, 774.67, 777.00, 779.33, 781.67, 784.00, 786.33, 788.67, 791.00, 793.33, 795.67, 798.00, 800.33, 802.67, 805.00, 807.33, 809.67, 812.00, 814.33, 816.67, 819.00, 821.33, 823.67, 826.00, 828.33, 830.67, 833.00, 835.33, 837.67, 840.00, 842.33, 844.67, 847.00, 849.33, 851.67, 854.00, 856.33, 858.67, 861.00, 863.33, 865.67, 868.00, 870.33, 872.67, 875.00, 877.33, 879.67, 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2706.67, 2709.00, 2711.33, 2713.67, 2716.00, 2718.33, 2720.67, 2723.00, 2725.33, 2727.67, 2730.00, 2732.33, 2734.67, 2737.00, 2739.33, 2741.67, 2744.00, 2746.33, 2748.67, 2751.00, 2753.33, 2755.67, 2758.00, 2760.33, 2762.67, 276				

EARTHWORK

BRIDGE QUANTITY SHEET

STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
STRUCTURES DIVISION

STATION	GRADES			COMMON		FILL	
	ON TAN.	ON V.C.	CORR. V.C.	AREA	CU. YDS.	AREA	CU. YDS.
TH 1							
48+50				0	20	0	2
48+75				42	36	4	3
49+00				15	34	2	1
49+15				10	36	2	
49+25				8.5	42	13	
49+33.5				42	26	18	
49+56.5				18.5	26	31	28
50+00				25	40	28	18
50+25				25	19	0	52
50+50				25	9	191	
<b>FILL NEEDED</b>							
TH 1 EMBANKMENT (60 CY)							
60 X 1.15 = 69 CY							
<b>MATERIAL AVAILABLE</b>							
COMMON EXCAVATION					200 X 1.00 = 200		
CHANNEL EXCAVATION					20 X 0.3 = 6		
MATERIAL FROM COFFERDAM					240 X 0.3 = 72		
					278		
TOTAL WASTE = 209 CY							
						SAY 210 CY	

ITEM NO.	ITEM	UNIT	SUPER STRUCTURE	QUANTITY BREAKDOWN		CHANNEL	ROADWAY	EROSION CONTROL	FULL E+C	TOTAL	FINAL
				ABUTMENT 1	ABUTMENT 2						
201.10	CLEARING AND GRUBBING (PLUS INDIVIDUAL STUMPS & TREES)	LS					1			1	1
203.15	COMMON EXCAVATION	CY					200			200	188
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY				20				20	18.9
204.20	TRENCH EXCAVATION OF EARTH	CY						10		10	0
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		120	118.82+7.96	120				240	240
204.40	COFFERDAM, STA 49+34	LS		1						1	1
204.40	COFFERDAM, STA 49+56	LS			1					1	1
301.15	SUBBASE OF GRAVEL	CY					210	167.2	10	0	220
401.10	AGGREGATE SURFACE COURSE	CY					100			100	104.2
501.25	CONCRETE CLASS B	CY	33	32.47	61	63.66	63	66.27		157	162.4
507.15	REINFORCING STEEL	LB			8550	8870				17420	17768
507.17	EPOXY COATED REINFORCING STEEL	LB	4390							4390	4643
514.10	WATER REPELLENT	GAL	6		3	3				12	10
525.44	BRIDGE RAILING - HEAVY DUTY STEEL BEAM TYPE A/FASCIA MOUNTED/ STEEL TUBING (TYPE IV)	LF	50							50	50
529.15	REMOVAL OF STRUCTURE	EACH					1			1	1
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NABI)	HR						1		1	0
609.15	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	TON					1			1	0
613.10	STONE FILL, TYPE I	CY						10		10	0
613.13	STONE FILL, TYPE IV	CY				210				210	210
621.21	GUARDRAIL - HEAVY DUTY STEEL BEAM TYPE 4 (WITH WOODEN POSTS)	LF					230			230	238
621.60	ANCHOR FOR STEEL BEAM RAIL	EACH					4			4	4
631.10	FIELD OFFICE - ENGINEERS	LS							1	1	1
631.16	TESTING EQUIPMENT - CONCRETE	LS							1	1	1
631.25	FIELD OFFICE TELEPHONE (NABI)	LS							1	1	203
635.10	MOBILIZATION	LS					1			1	1
649.31	GEOTEXTILE UNDER STONE FILL	SY				160				160	160
649.51	GEOTEXTILE FOR SILT FENCE	SY						50		50	43
649.61	GEOTEXTILE FOR FILTER CURTAIN	SY						25		25	0
651.15	SEED	LB						10		10	6
651.17	SEED - WINTER RYE	LB						10		10	6
651.18	FERTILIZER	LB						20		20	50
651.20	AGRICULTURAL LIMESTONE	TON						0.1		0.1	2
651.25	HAY MULCH	TON						0.5		0.5	2
651.26	HAY BALES FOR EROSION CONTROL	EACH						10		10	5
651.40	GRUBBING MATERIAL	SY				100				100	108
654.10	EROSION MATTING	SY						10		10	0

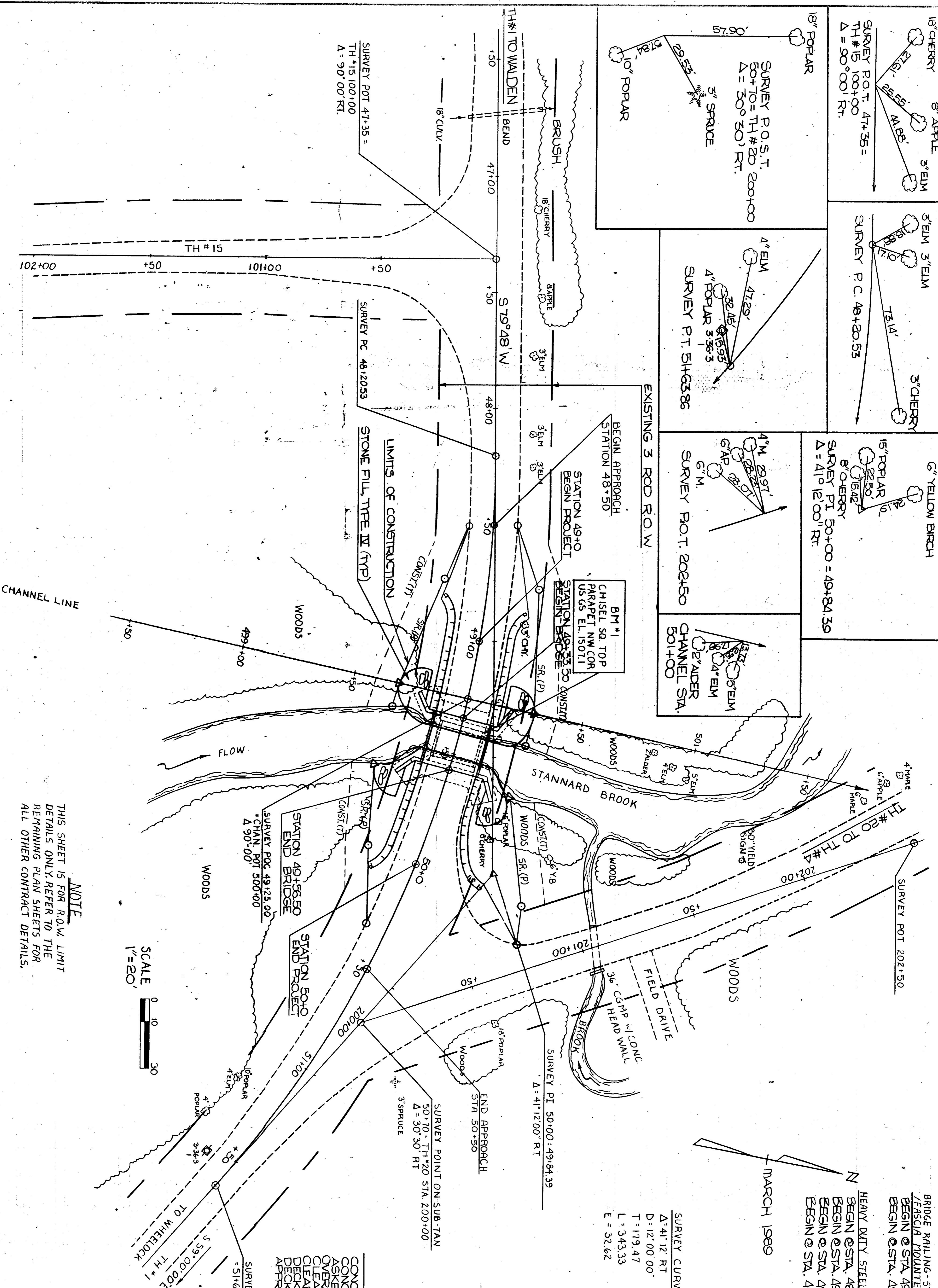
BRIDGE AT STATION STA 49+33.50 ~ STA 49+56.50  
LOCATION TH 1 OVER STANNARD BROOK

PREPARED BY: B. DONALD  
SUPERVISOR

CHECKED BY: M. B. SYMONDS  
C. P. WILLIAMS

PROJECT: STANNARD  
BR OF

PROJECT NO: TH2-8919  
SHEET NO: 3 OF 21



BRIDGE RAILING-STANDARD STEEL BEAM TYPE IV (WEATHERING STEEL)  
 /EAS/GIA MOUNTED/48x17 STEEL TUBING  
 BEGIN @ STA. 49+33 LT. 2 END @ STA. 49+57 LT.  
 BEGIN @ STA. 49+32 RT. 2 END @ STA. 49+58 RT.

HEAVY DUTY STEEL BEAM GUARD RAIL TYPE IV (WEATHERING STEEL)  
 BEGIN @ STA. 48+85 LT. 2 END @ STA. 49+33 LT.  
 BEGIN @ STA. 49+57 LT. 2 END @ STA. 49+59 LT.  
 BEGIN @ STA. 48+82 RT. 2 END @ STA. 49+32 RT.  
 BEGIN @ STA. 49+58 RT. 2 END @ STA. 50+08 RT.

MARCH 1989

ANCHORS FOR HEAVY DUTY  
 STEEL BEAM GUARD RAIL  
 STA. 48+97 LT. STA. 49+94 LT.  
 STA. 48+94 RT. STA. 49+97 RT.

SURVEY CURVE DATA  
 $\Delta = 41^\circ 12' RT$  R = 471.46  
 $D = 12.00' 00''$   
 $T = 119.47$   
 $L = 343.33$   
 $E = 32.62$

EXISTING BRIDGE DATA  
 CONCRETE SLAB BRIDGE  
 CONCRETE ABUTMENTS AND WINGWALLS  
 ASKEW - 90  
 OVERALL LENGTH OF STRUCTURE - 16'  
 CLEAR SPAN - 11.5'  
 CLEAR HEIGHT - 7.0'  
 DECK DEPTH - 1.0'  
 APPROACH WIDTH (INCLUDING SHOULDER) - 18'

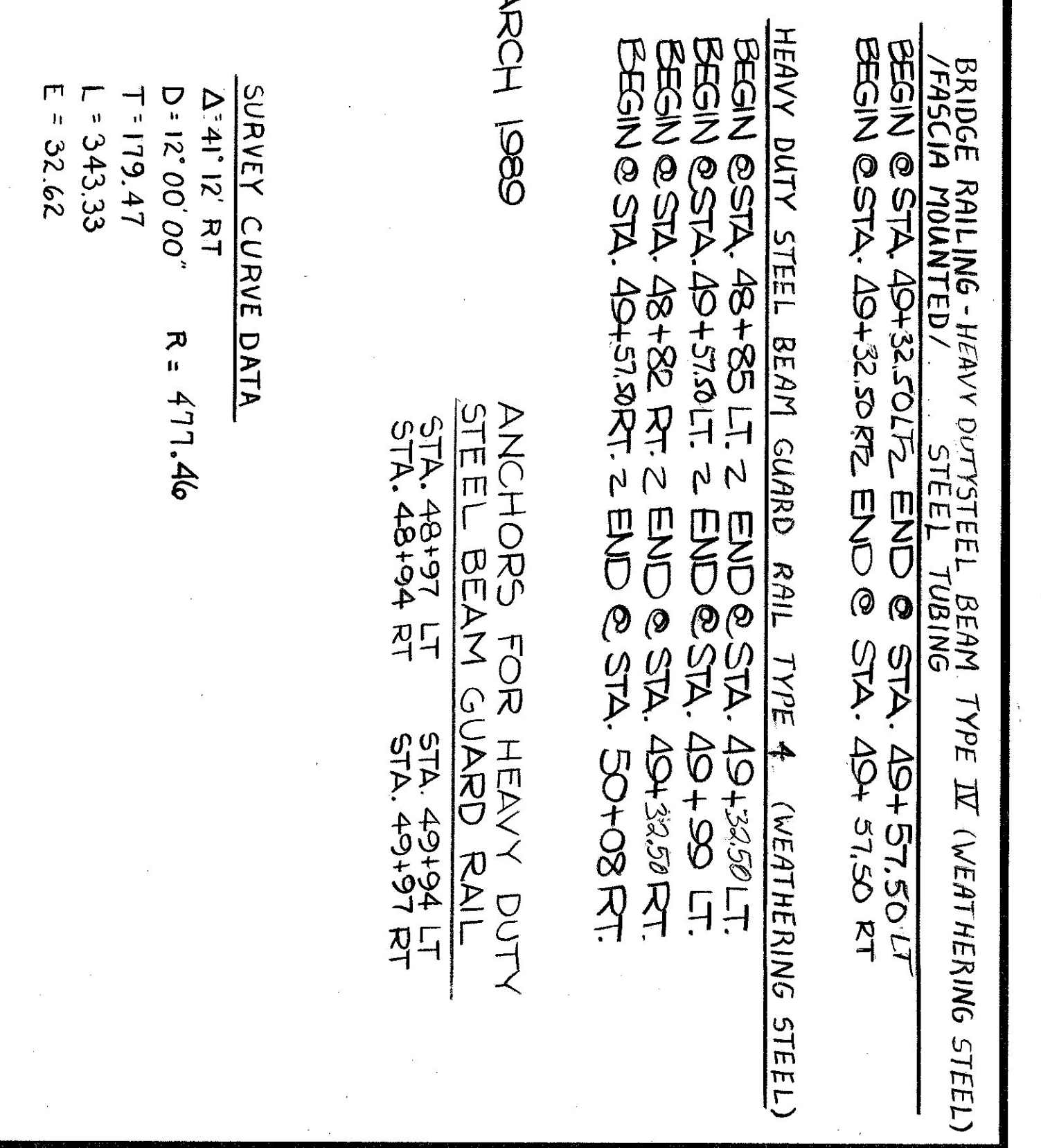
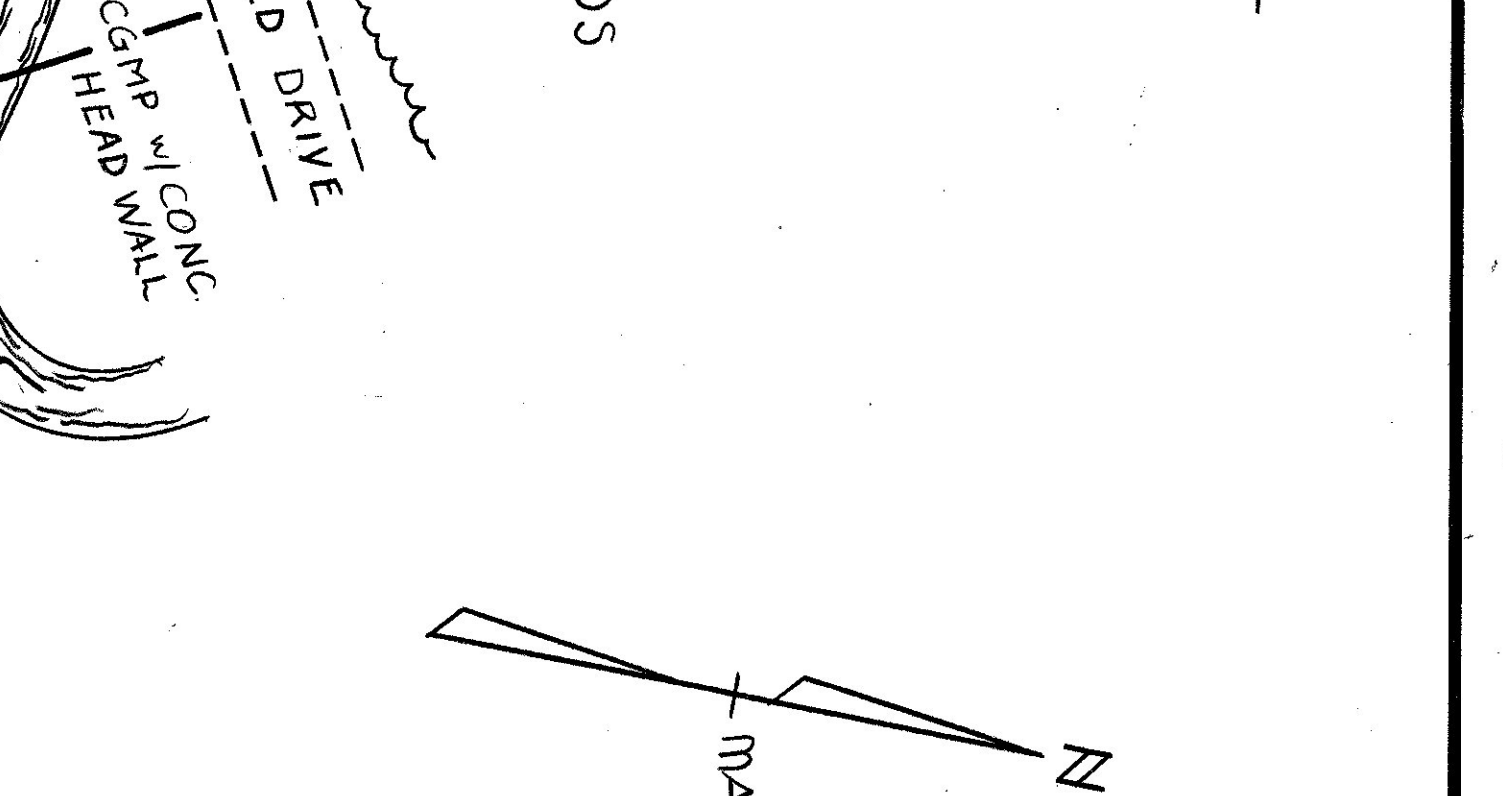
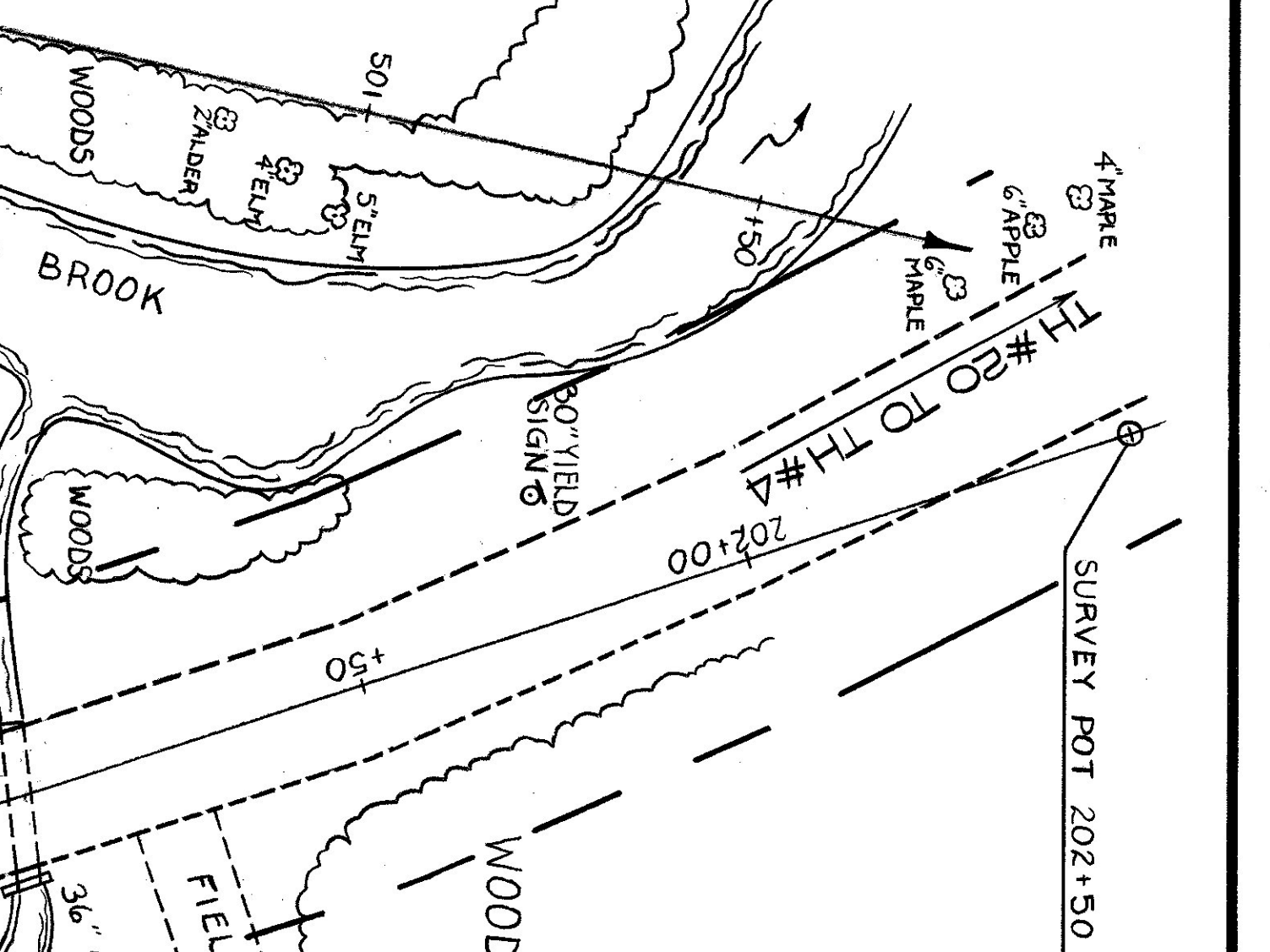
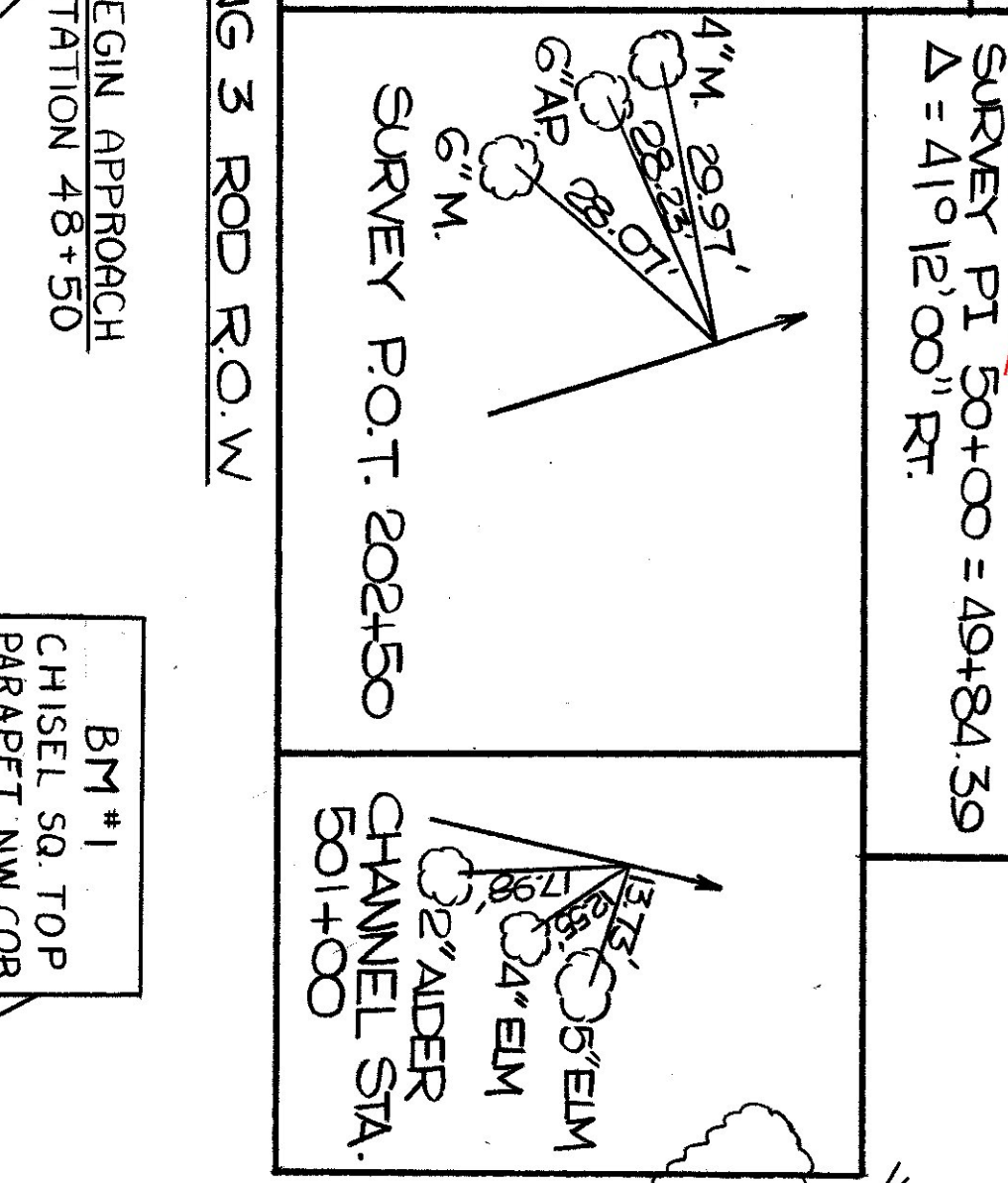
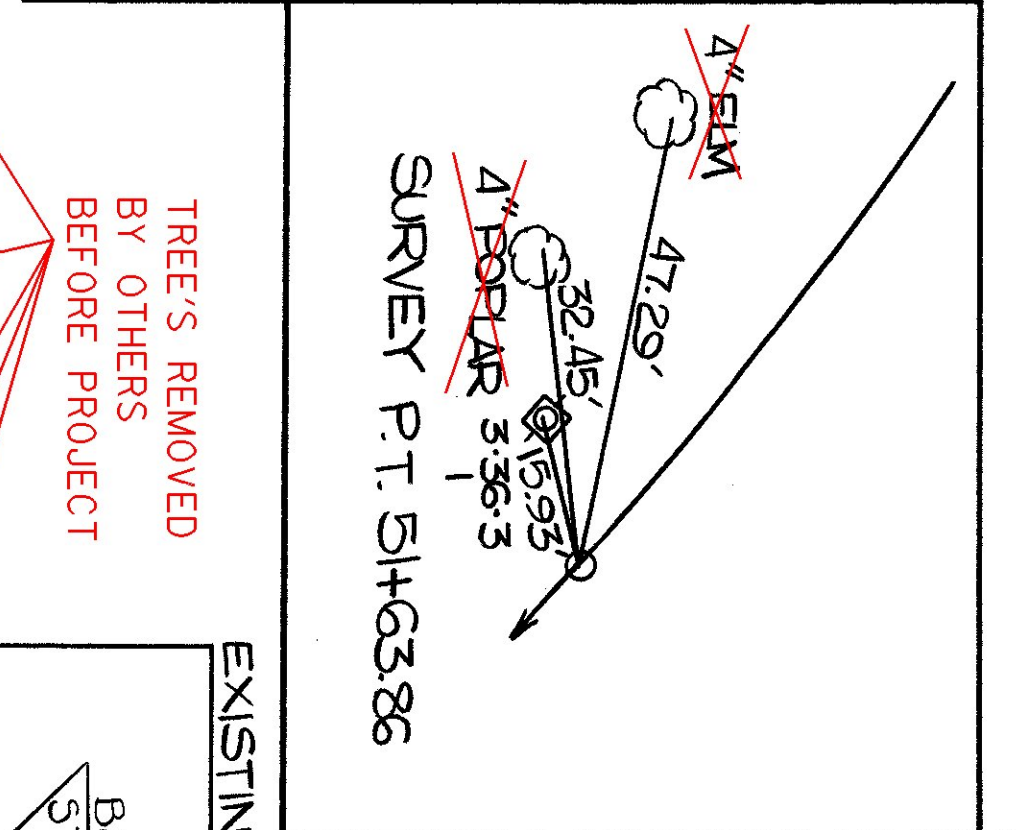
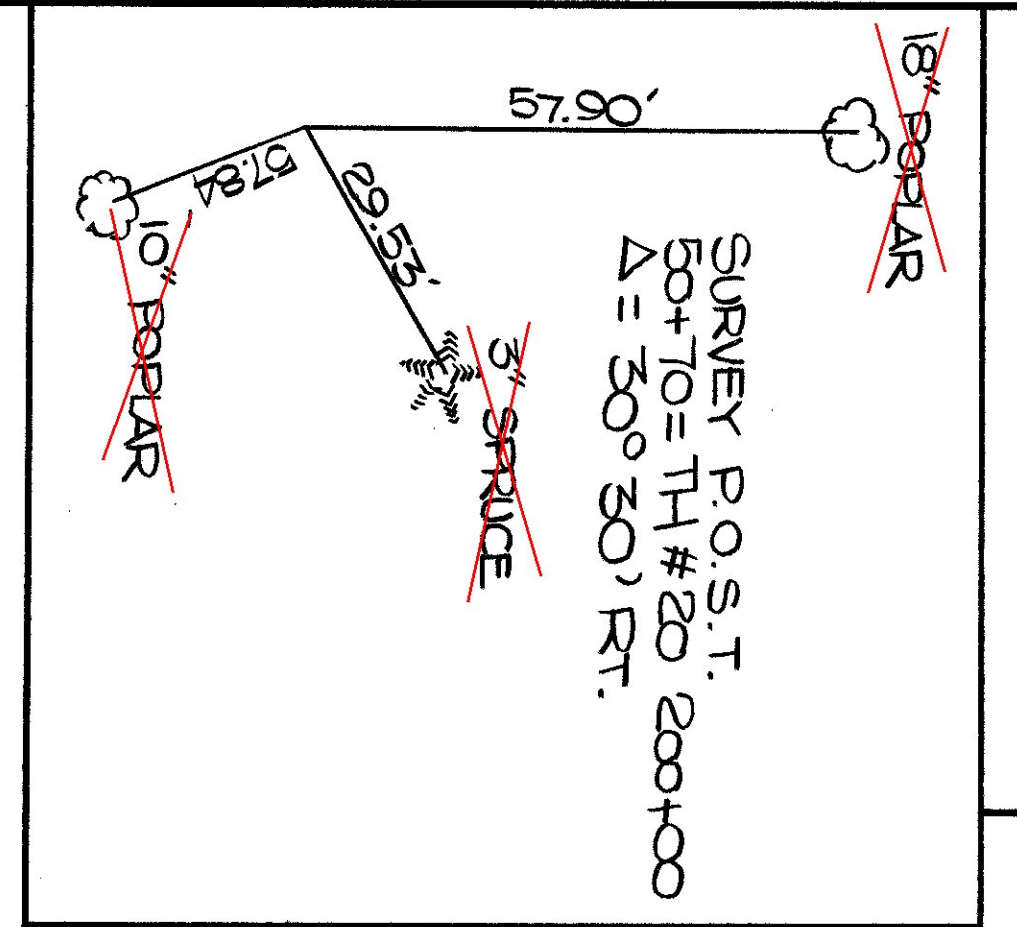
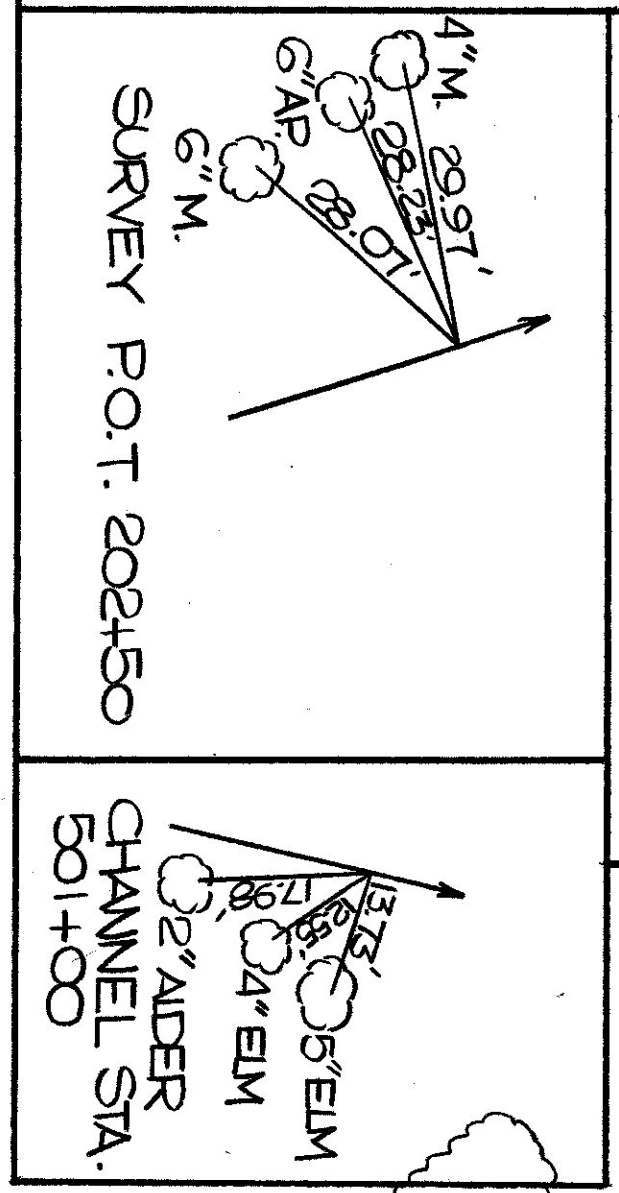
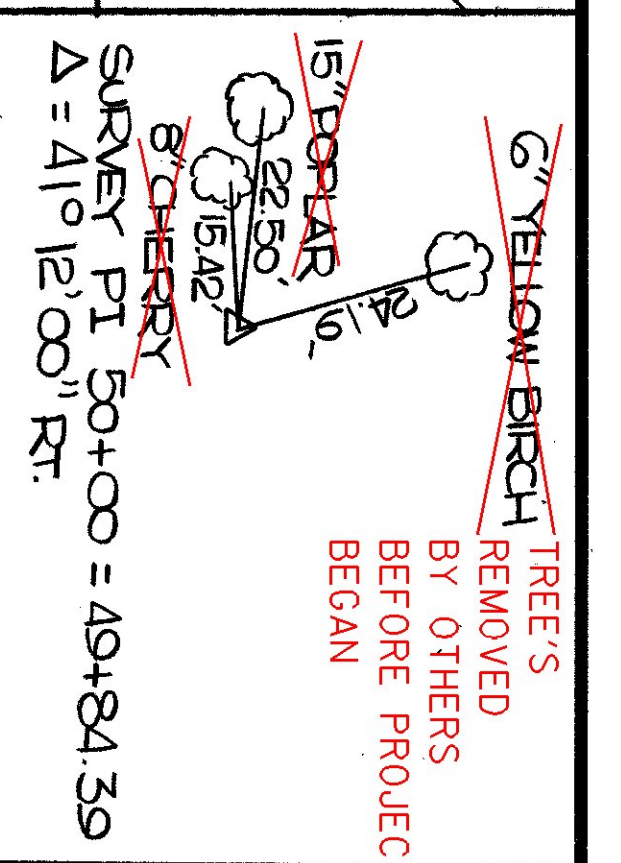
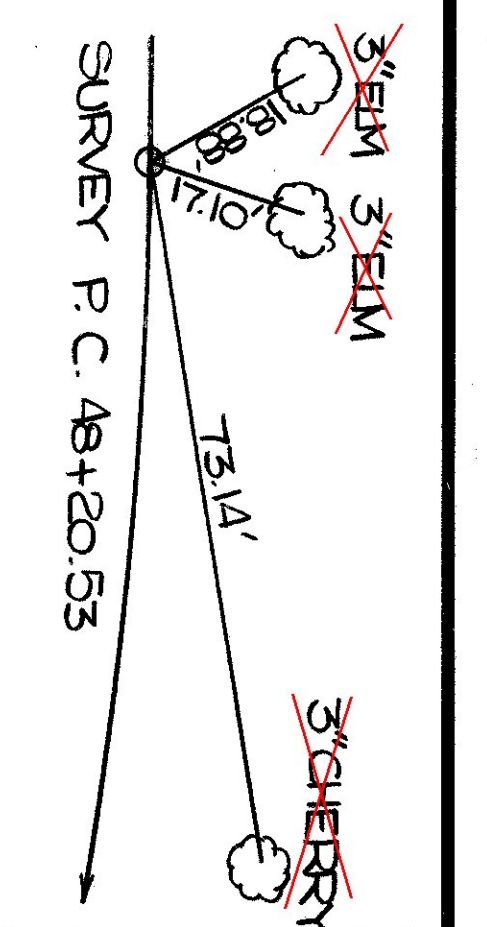
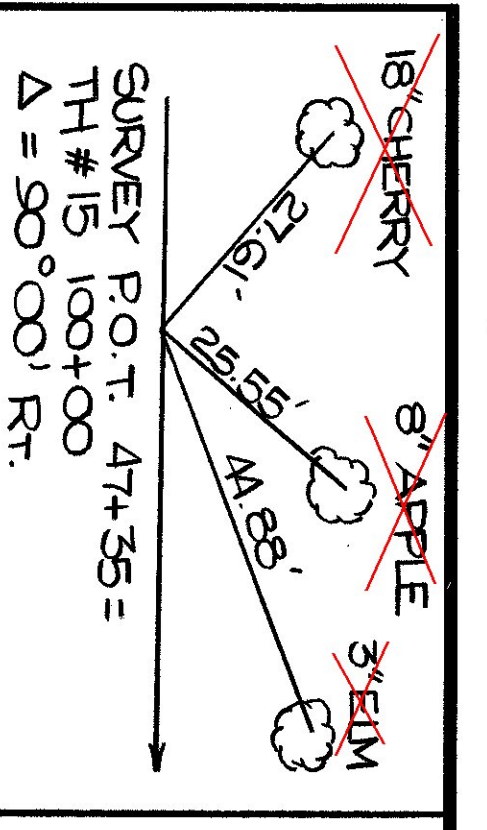
**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

Town of STANNARD  
 Highway No. TH#1  
 TH#1 OVER STANNARD BROOK

ROW SHEET  
 Designed BYK. CLAIRMONT  
 Checked By C.P. WILLIAMS  
 Date 9/92  
 Drawn By I.A. SUMNER  
 Bridge Design Supervisor  
 J.B. McCordy  
 Date 9/92  
 PROJECT STANNARD  
 PROJECT NO. TH2-8919

NOTE  
 THIS SHEET IS FOR ROW LIMIT  
 DETAILS ONLY. REFER TO THE  
 REMAINING PLAN SHEETS FOR  
 ALL OTHER CONTRACT DETAILS.

SCALE  
 1" = 20'



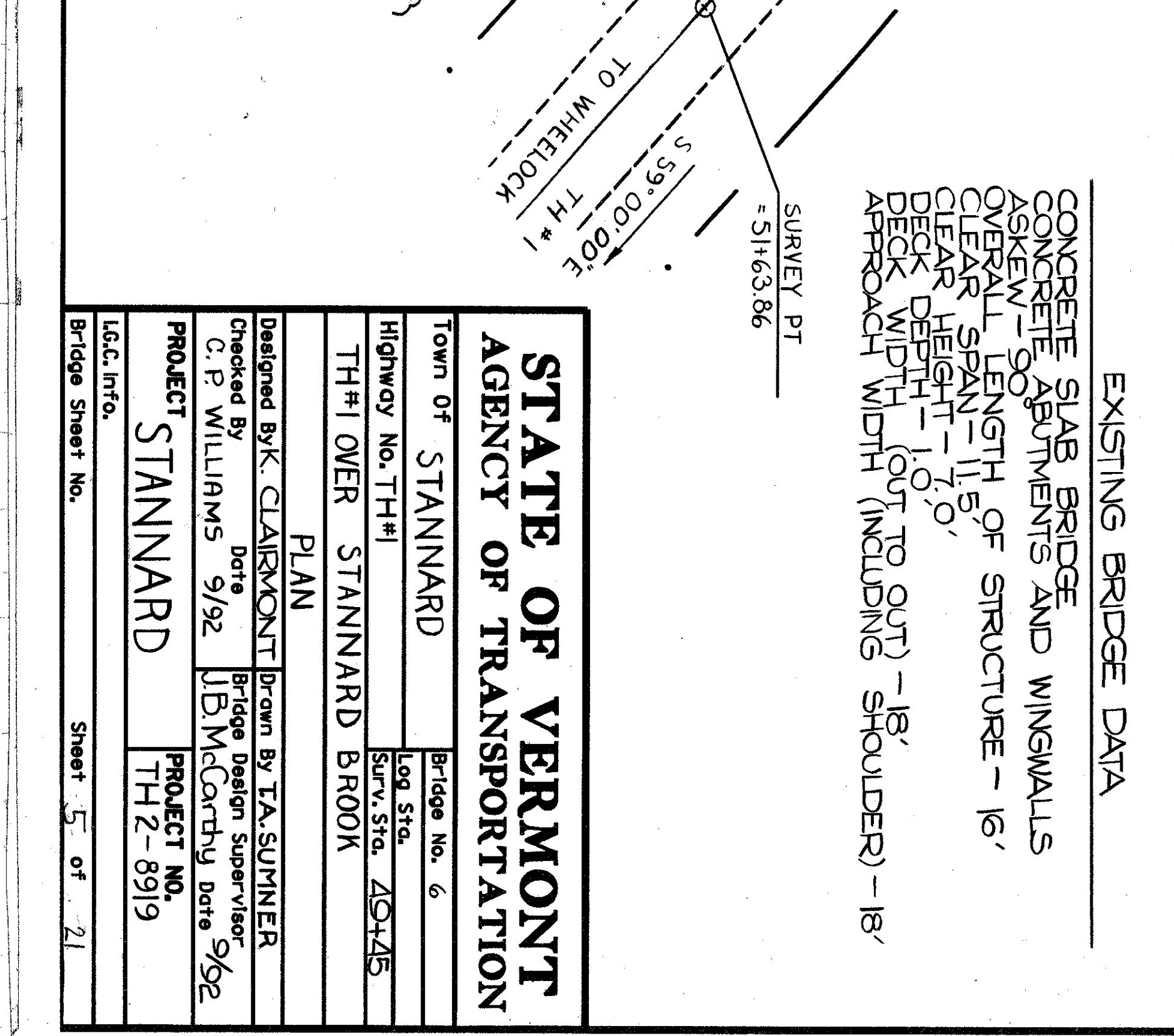
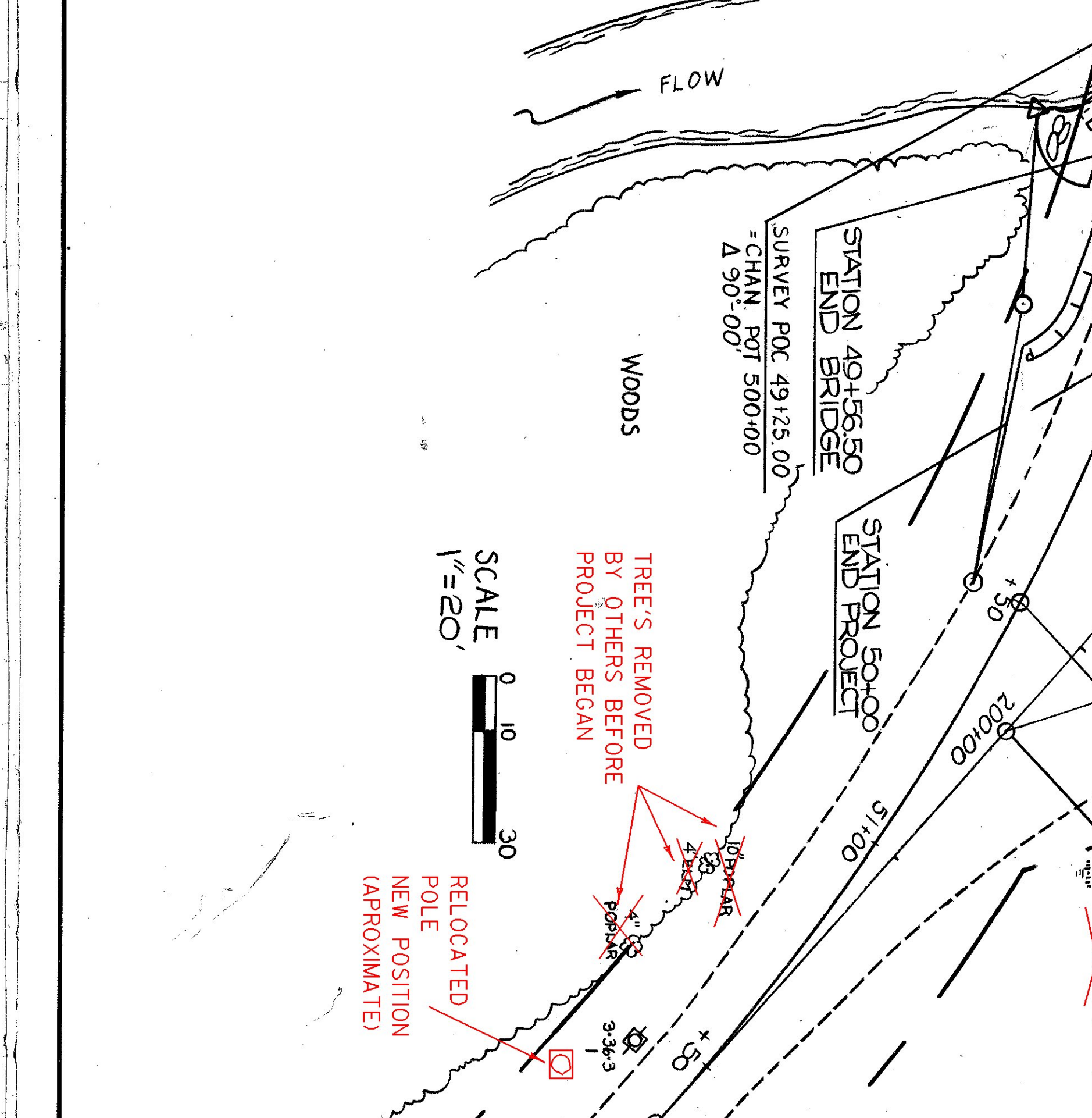
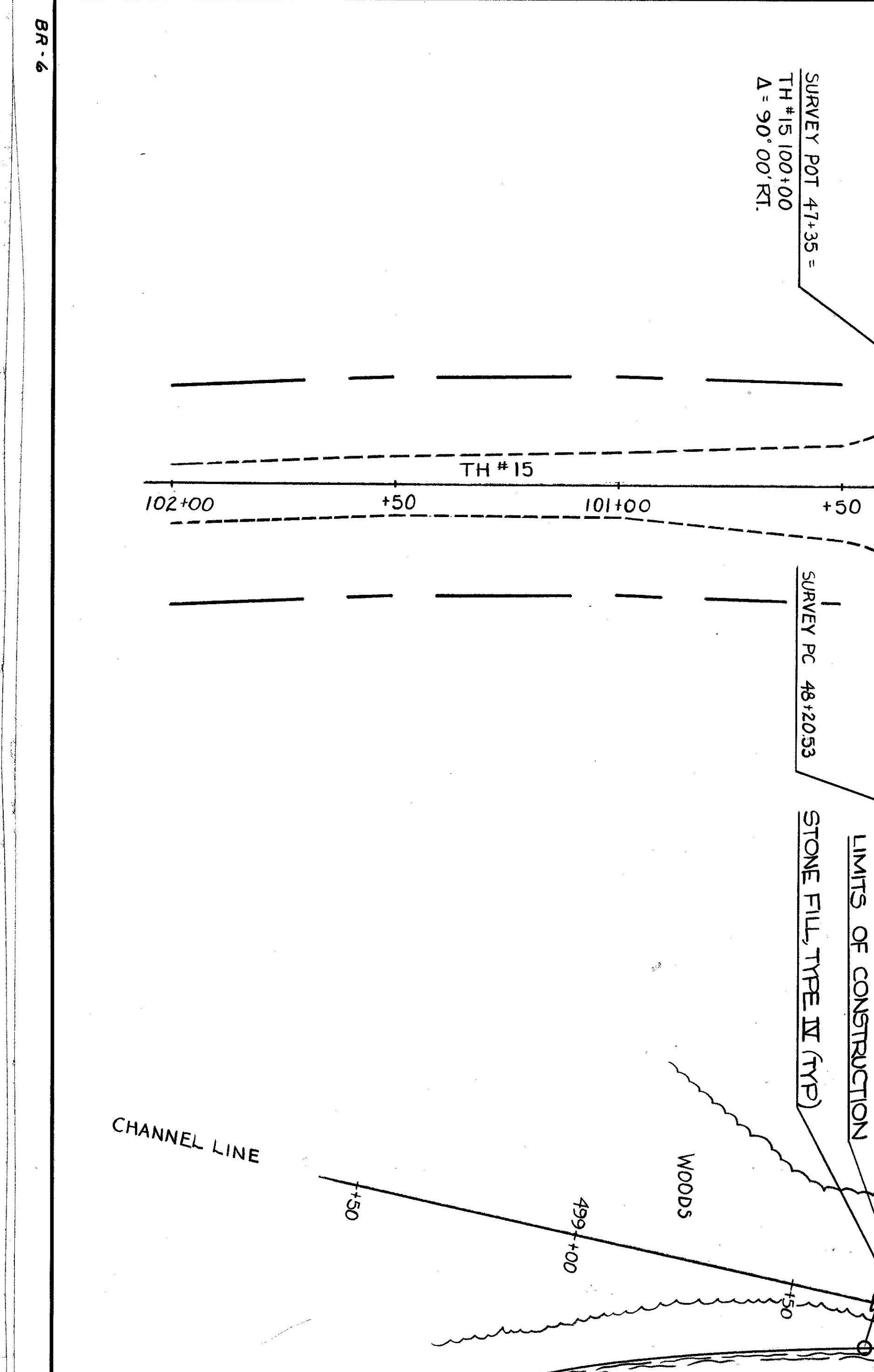
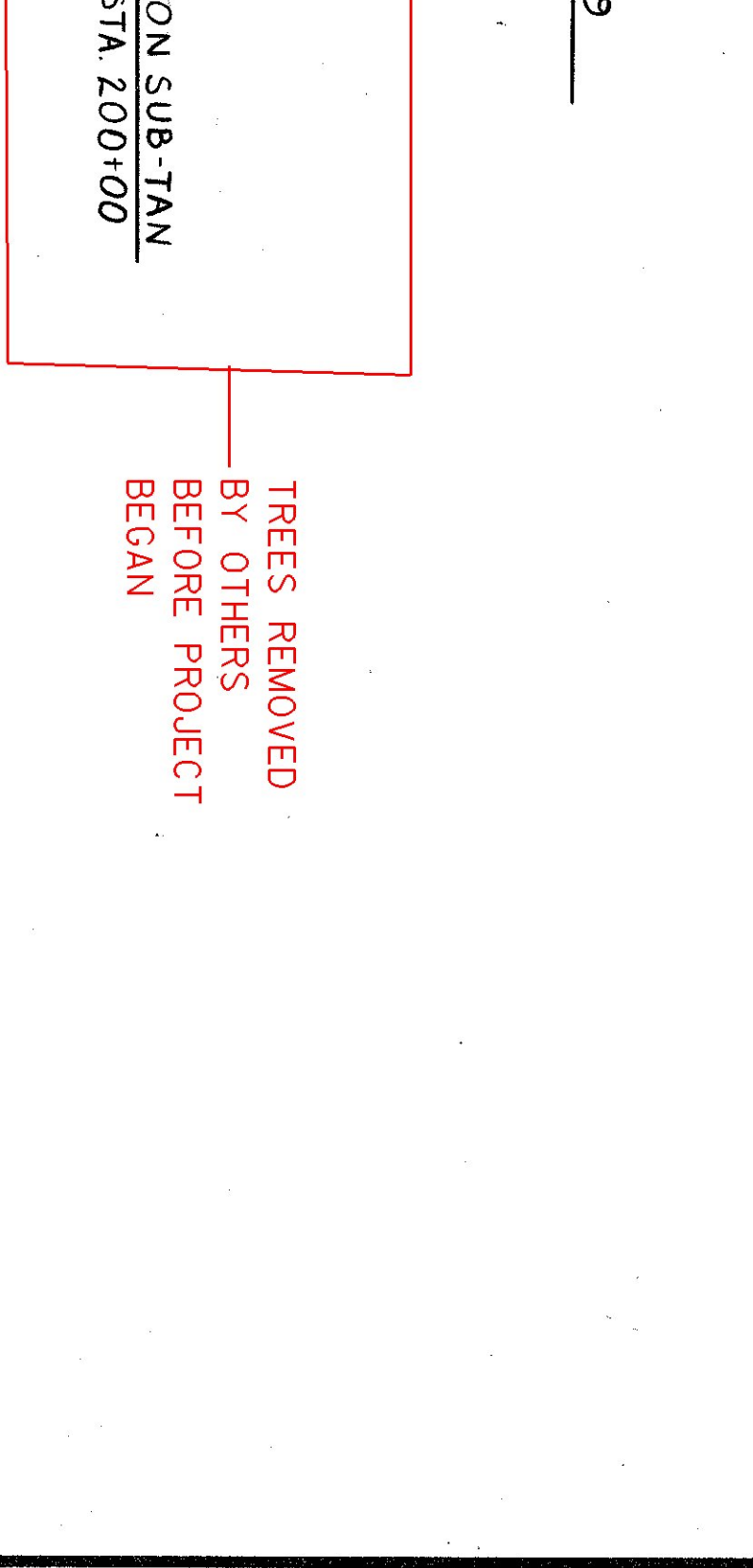
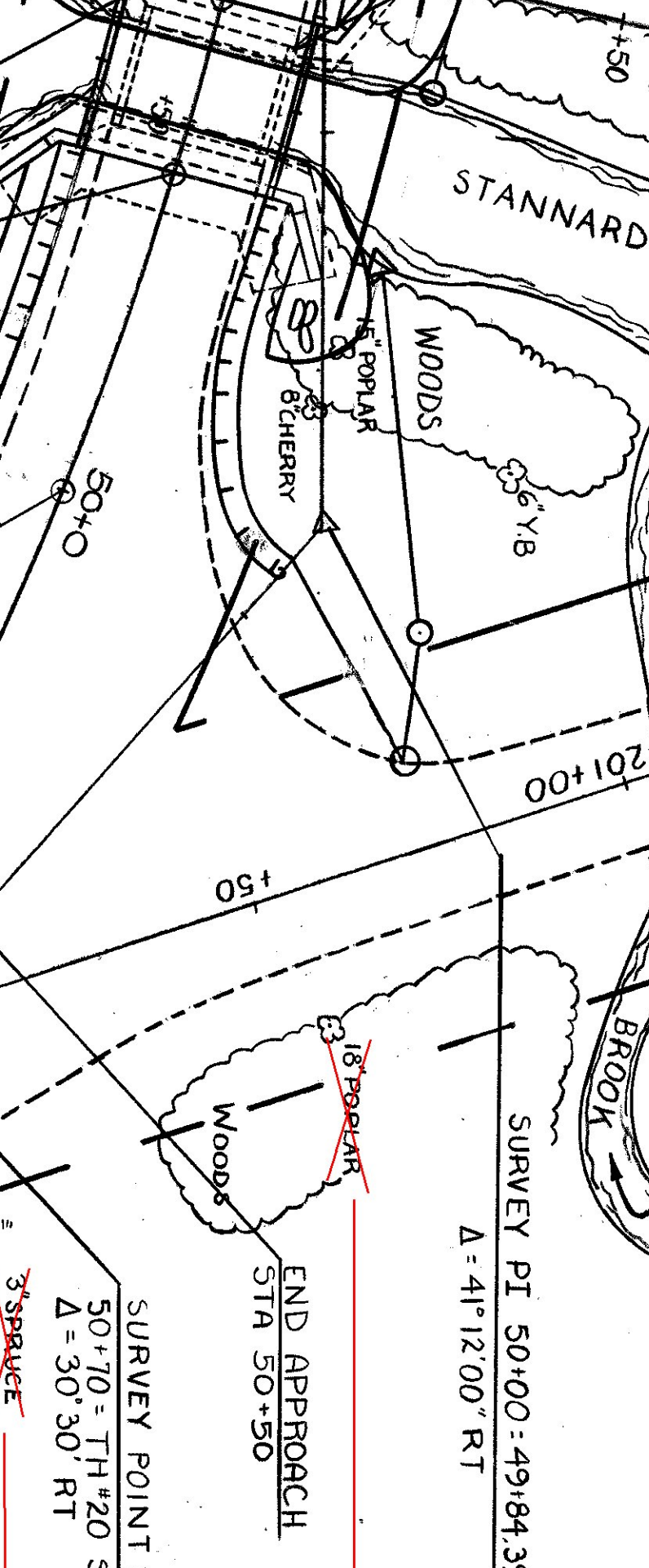
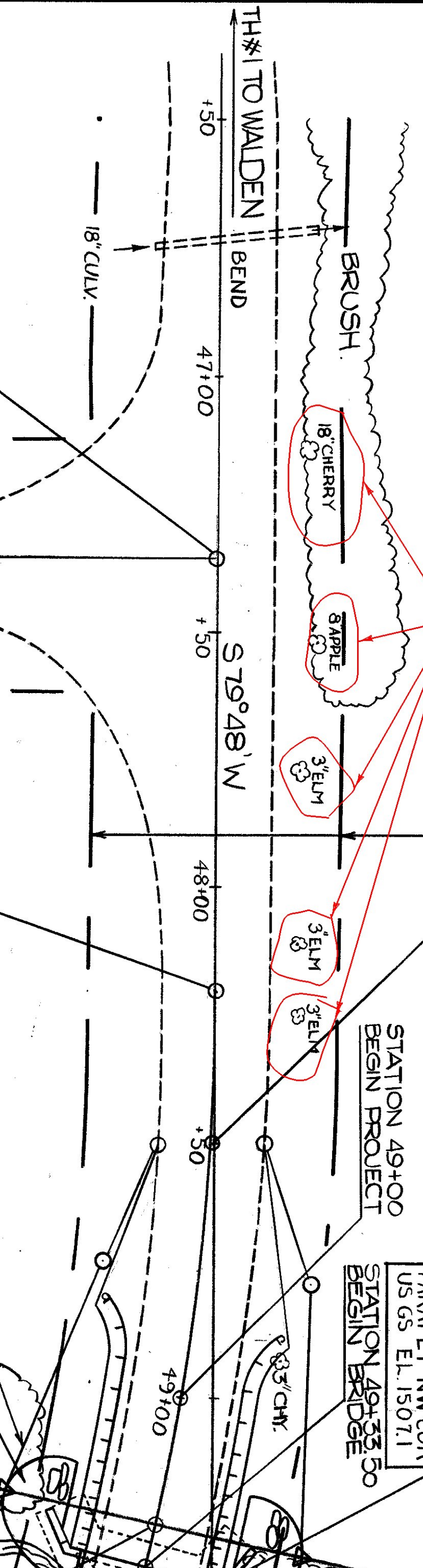
BRIDGE RAILING - HEAVY DUTY STEEL BEAM TYPE IV (WEATHERING STEEL) / FASCIA MOUNTED / STEEL TUBING  
 BEGIN @ STA. 49+32.50 LT. END @ STA. 49+57.50 LT.  
 BEGIN @ STA. 49+32.50 RT. END @ STA. 49+57.50 RT

HEAVY DUTY STEEL BEAM GUARD RAIL TYPE 4 (WEATHERING STEEL)  
 BEGIN @ STA. 48+85 LT. 2 END @ STA. 49+32.50 LT.  
 BEGIN @ STA. 49+57.50 LT. 2 END @ STA. 49+59 LT.  
 BEGIN @ STA. 48+82 RT. 2 END @ STA. 49+32.50 RT.  
 BEGIN @ STA. 49+57.50 RT. 2 END @ STA. 50+08 RT.

MARCH 1989

ANCHORS FOR HEAVY DUTY STEEL BEAM GUARD RAIL  
 STA. 48+97 LT STA. 49+94 LT  
 STA. 48+94 RT STA. 49+97 RT

SURVEY CURVE DATA  
 $\Delta = 41^{\circ}12' RT$   $R = 477.46$   
 $D = 12.00' 00''$   
 $T = 119.47$   
 $L = 343.33$   
 $E = 32.62$



EXISTING BRIDGE DATA  
 CONCRETE SLAB BRIDGE  
 CONCRETE ABUTMENTS AND WINGWALLS  
 ASKEW - 90'  
 OVERALL LENGTH OF STRUCTURE - 16'  
 CLEAR SPAN - 11.5'  
 CLEAR HEIGHT - 7.0'  
 DECK WIDTH - 10' (OUT TO OUT) - 18'  
 APPROACH WIDTH (INCLUDING SHOULDER) - 18'

RELOCATED POLE NEW POSITION (APPROXIMATE)

SCALE 1" = 20'

STATE OF VERMONT  
 AGENCY OF TRANSPORTATION

TOWN OF STANNARD	Bridge No. 6
HIGHWAY No. TH#1	Log Sta. 49+45
TH#1 OVER STANNARD BROOK	SURV. STA. 49+45

PLAN

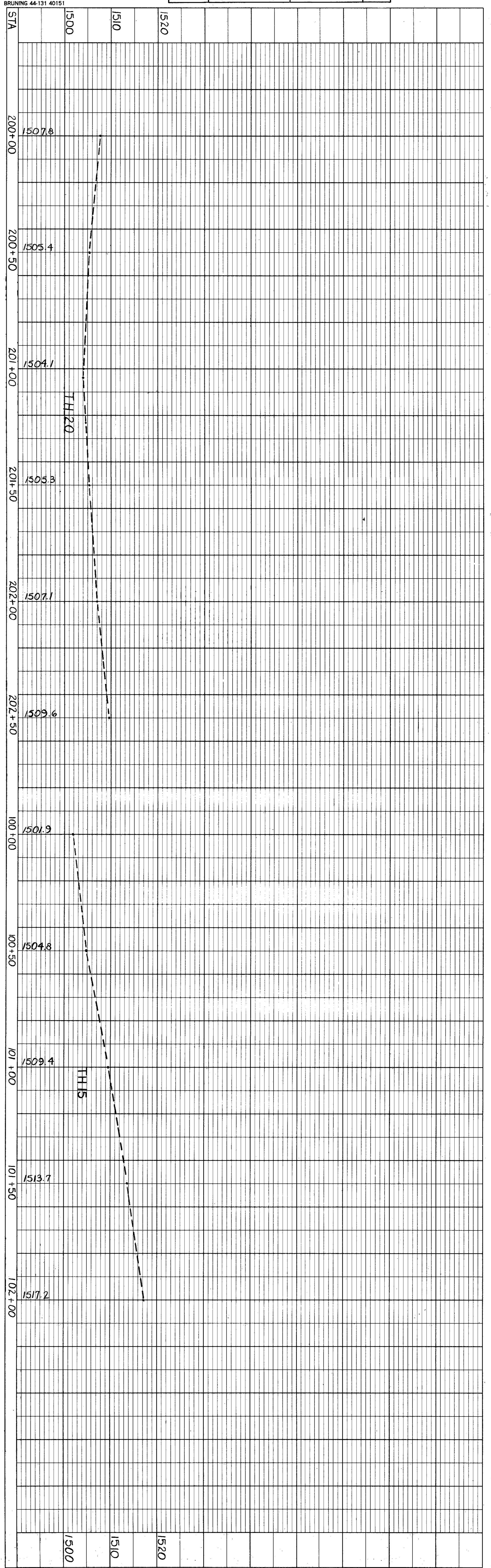
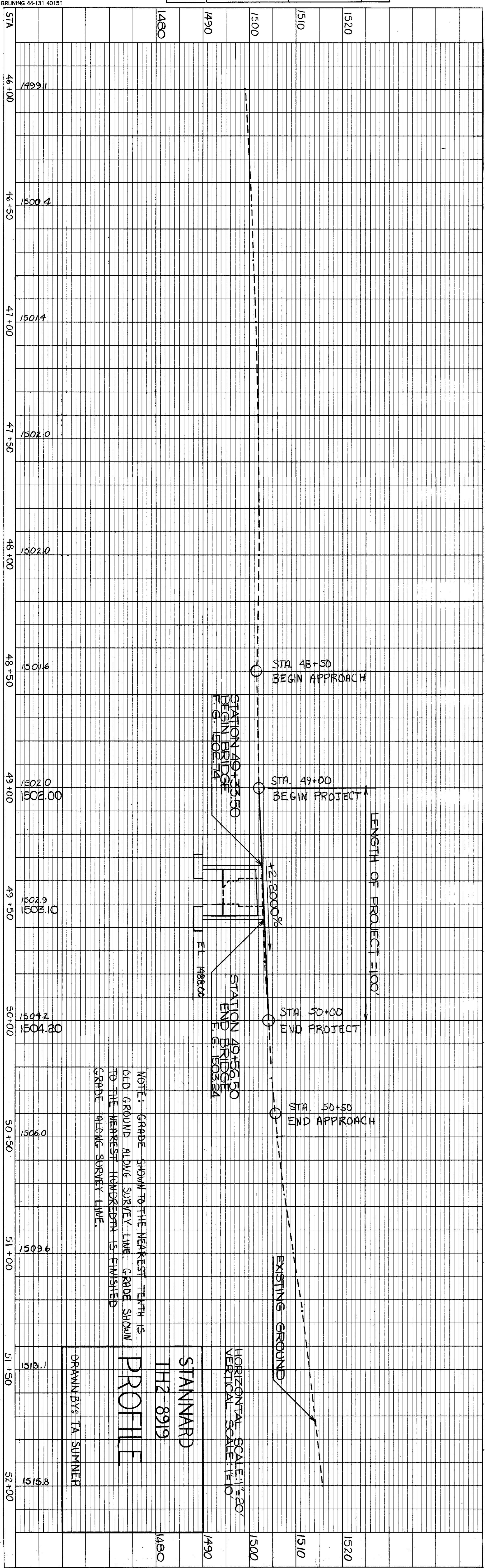
Designed By: CLAYMONT  
 Drawn By: TA. SUPNER  
 Checked By: Date  
 C. P. Williams 9/92  
 Bridge Design Supervisor  
 J.B. McCarthy date 9/92

PROJECT STANNARD PROJECT NO. TH2-8919

U.S.C. Info. Sheet 5 of 21

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTAT'NS CH'KD		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTAT'NS CH'KD		



**SOIL CLASSIFICATION**

UNIFIED SOIL SYSTEM

AI	Gravel and Sand
A2	Fine Sand
A3	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

**COMMONLY USED SYMBOLS**

▲	Water Elevation
⊕	Standard Penetration Boring
⊙	Auger Boring
⊖	Rod Sounding
⊗	Sample
⊘	Standard Penetration Test
⊙	Blow Count Per Foot For:
⊗	2.0 D. Sampler
⊘	1 1/2" I.D. Sampler
⊙	Hammer Fall of 30"
⊗	Field Vane Shear Test
⊘	Undisturbed Soil Sample
⊙	Diamond Core
⊗	Mud Drilling
⊘	Wash Ahead
⊙	Hollow Stem Auger
⊗	Core Size 1 1/2"
⊘	Core Size 1 5/8"
⊙	Core Size 2 1/8"
⊗	Double Tube Core Barrel Used
⊘	Liquid Limit
⊙	Plastic Limit
⊗	Plasticity Index
⊘	Non Plastic
⊙	Moisture Content (Dry Wgt. Basis)
⊗	Dry
⊘	Moist
⊙	Moist To Wet
⊗	Wet
⊘	Saturated

**MOISTURE**

DESCRIPTIVE TERM	OBSERVED IN FIELD	% ± BY ANALYSIS
Dry	No Visible Water	<10
Moist	Damp	10-20
Moist to Wet	Moist to Wet	21-50
Wet	Visible Water	51-70
Saturated		>70

**ROCK QUALITY DESIGNATION**

R.Q.D.	ROCK DESCRIPTION
<.25	Very Poor
.25 to .50	Poor
.51 to .75	Fair
.76 to .90	Good
>.90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

**CORRELATION GUIDE OF 'N' TO DENSITY/CONSISTENCY**

DENSITY (GRANULAR SOILS)	CONSISTENCY (COHESIVE SOILS)
DESCRIPTIVE TERM	DESCRIPTIVE TERM
N	N
<5	Very Loose
5-10	Loose
11-24	Med. Dense
25-50	Dense
>50	Very Dense

**DEFINITIONS (AASHTO)**

**BEDROCK (LEDGE)** - Rock in its native location of indeterminate thickness.  
**BOULDER** - A rock fragment with an average dimension > 12 inches.  
**COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.  
**GRAVEL** - Rounded particles of rock < 3" and > 0.075" (#20 sieve).  
**SAND** - Particles of rock < 0.075" (#20 sieve) and > 0.0029" (#60 sieve).  
**SILT** - Soil < 0.0029" (#60 sieve), non or slightly plastic and exhibits no strength when air-dried.  
**CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

Water Elevation	▲
Standard Penetration Boring	⊕
Auger Boring	⊙
Rod Sounding	⊖
Sample	⊗
Standard Penetration Test	⊘
Blow Count Per Foot For:	⊙
2.0 D. Sampler	⊗
1 1/2" I.D. Sampler	⊘
Hammer Fall of 30"	⊙
Field Vane Shear Test	⊗
Undisturbed Soil Sample	⊘
Diamond Core	⊙
Mud Drilling	⊗
Wash Ahead	⊘
Hollow Stem Auger	⊙
Core Size 1 1/2"	⊗
Core Size 1 5/8"	⊘
Core Size 2 1/8"	⊙
Double Tube Core Barrel Used	⊗
Liquid Limit	⊘
Plastic Limit	⊙
Plasticity Index	⊗
Non Plastic	⊘
Moisture Content (Dry Wgt. Basis)	⊙
Dry	⊗
Moist	⊘
Moist To Wet	⊙
Wet	⊗
Saturated	⊘
Saturated	⊙
Boulder	⊗
Gravel	⊘
Sand	⊙
Silt	⊗
Clay	⊘
Hordepan	⊙
Ledge	⊗
No Ledge To Depth	⊘
CNPF Can Not Penetrate Further	⊙
To Ledge Or Boulder	⊗
No Recovery	⊘
NR	⊙
Recovery	⊗
Percent Recovery	⊘
Rec.	⊙
Rock Quality Designation	⊗
RQD	⊘
California Bearing Ratio	⊙
CBR	⊗
Less Than	⊘
Greater Than	⊙

**COLOR**

Black	blk
Blue	bl
Brown	brn
Dark	dk
Gray	gr
Green	gn
Light	lt
Orange	or
Pink	pnk
Purple	pu
Red	rd
Tan	tn
White	wh
Yellow	yel
Multicolored	mltc

**BORING NO. B-1**

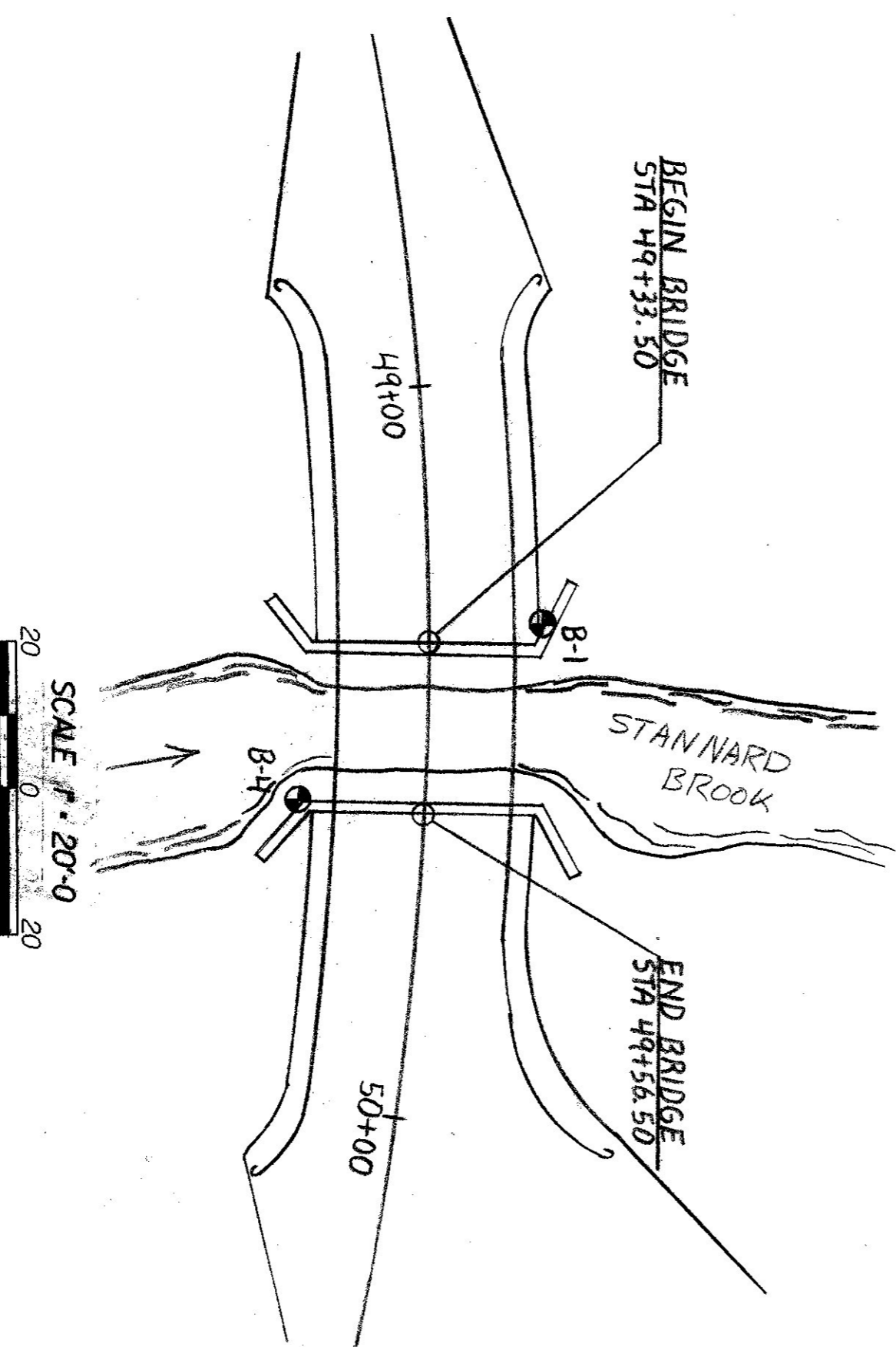
DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
1505						
1500						
1495						
1490						
1485						
1480						
1475						
1470						
1465						
1460						

**BORING NO. B-4**

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
1495.91						
1490						
1485						
1480						
1475						
1470						
1465						
1460						

**BORING CHART**

HOLE NO.	SURV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB
B-1	49+33	15' LT	1502.61	
B-4	49+56	17' RT	1495.91	



**GENERAL NOTES**

- The subsurface explorations shown herein were made between 9/9/93 and 9/14/93 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretations from available subsurface information by the Agency 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 conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor 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 interpretation, independent analysis or judgement by the Contractor.
- Pictorial structure details shown on the boring plan layout or soil profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints, and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.

**STATE OF VERMONT AGENCY OF TRANSPORTATION**

Town of **STANWARD** Bridge No. **6**

Highway No. **TH # 1** Log Sta. **49+45**

**TH # 1 OVER STANWARD BROOK BORING SHEET**

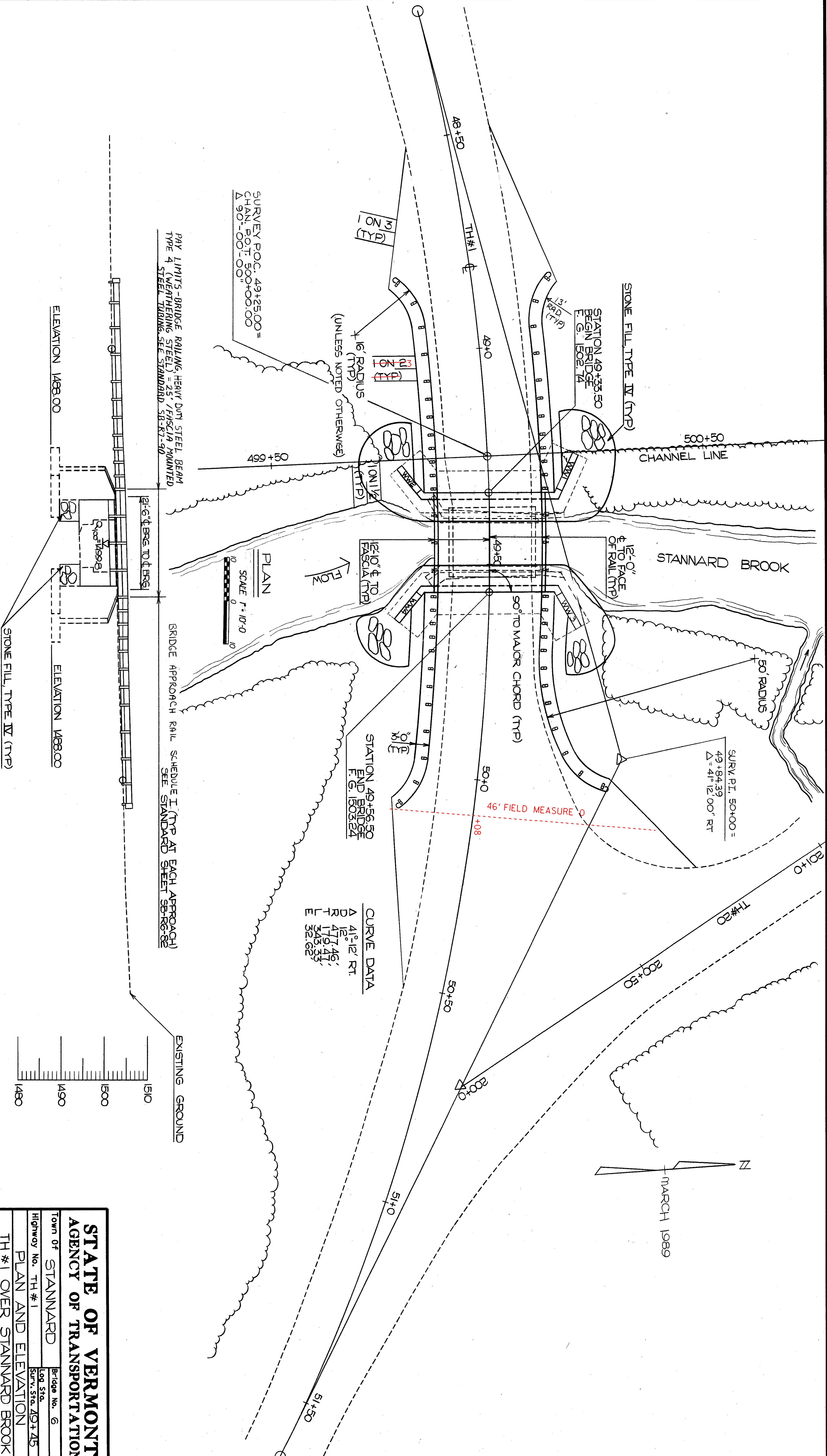
Designed By **E.L. DONALD** Drawn By **B.L. DONALD**

Checked By **C.R. WILLIAMS** Date **7/17**

W.B. SYMONDS **ZITZ** C.R. WILLIAMS **DATE**

PROJECT **STANWARD** PROJECT NO. **TH2-8919**

I.G.C. Info. Sheet No. **21**



**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

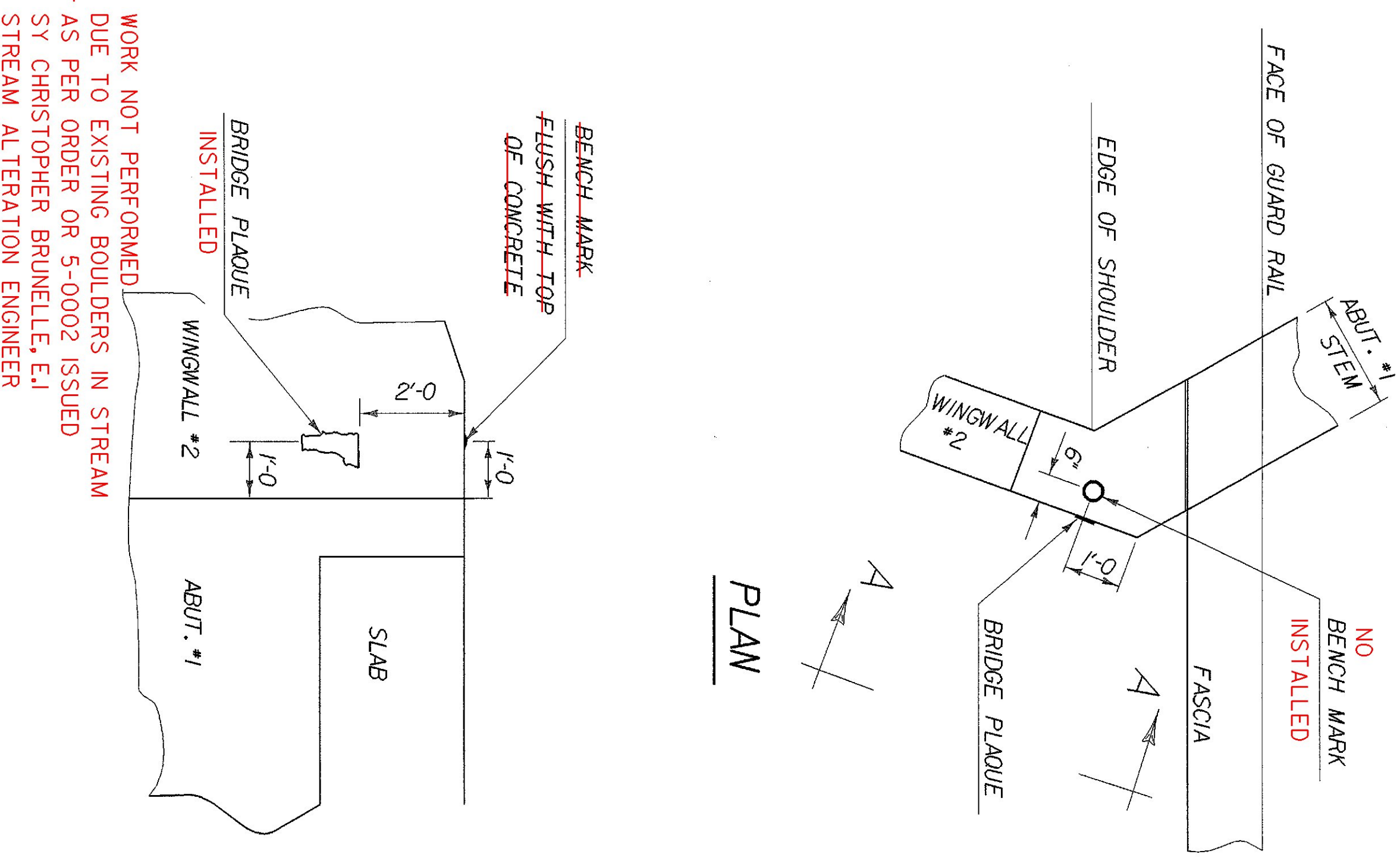
Town of STANNARD  
Highway No. TH #1  
PLAN AND ELEVATION  
TH #1 OVER STANNARD BROOK

Designed By K. CLAIRMONT  
Checked By C. P. WILLIAMS  
Date 9/92  
Bridge Design Supervisor J. B. McCarthy  
Date 9/92

PROJECT STANNARD  
PROJECT NO. THE - 8919  
L.C.C. Info.  
Bridge Sheet No. Sheet 8 of 21

# GENERAL NOTES

- 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.
- THE FOLLOWING WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:  
SOIL: UNIT WEIGHT - 140 PCF
- IN-STREAM CONSTRUCTION SHALL BE CONDUCTED ONLY DURING THE PERIOD JUNE 1 THROUGH OCTOBER 1. SEE SPECIAL PROVISIONS.
- TOWN HIGHWAY NO. 1 SHALL BE CLOSED TO TRAFFIC DURING CONSTRUCTION. SEE SPECIAL PROVISIONS. THE CONTRACTOR SHALL NOTIFY THE TOWN OF STANNARD IN WRITING TWO WEEKS PRIOR TO CLOSING BRIDGE 6 OVER STANNARD BROOK TO TRAFFIC.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES F.
- TRAFFIC SHALL BE ALLOWED ON THE NEW BRIDGE DECK ONLY AFTER THE SPECIFIED CURE PERIOD HAS EXPIRED AND THE DESIGN CONCRETE STRENGTH HAS BEEN ATTAINED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE TWO (2) INCHES ALONG BACK FACES OF WALLS AGAINST EARTH, ONE AND ONE HALF (1-1/2) INCHES AT BOTTOM OF SLABS, THREE (3) INCHES AT TOP OF SLABS, AND THREE (3) INCHES ELSEWHERE.
- ALL REINFORCING STEEL IN THE BRIDGE DECK SHALL BE EPOXY COATED AND PAID UNDER ITEM 507.17. WHEN EPOXY COATED REINFORCING IS CUT THE UNCOATED ENDS SHALL BE REPAIRED WITH MATERIALS AND PROCEDURES APPROVED BY THE COATING MANUFACTURER. FLAME CUTTING OF EPOXY COATED REINFORCING WILL NOT BE PERMITTED.
- REINFORCING PLACEMENT TOLERANCES SHALL BE:  
SPACING  $\pm 1"$   
CLEARANCE  $\pm 1/4"$
- ALL CONCRETE SHALL BE "CONCRETE CLASS B".
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".
- JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH CONCRETE BELOW IT.
- WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.
- AT LEAST 10 CY OF 3' TO 5' DIAMETER BOULDERS SHALL BE PLACED IN THE STREAM CHANNEL A MINIMUM OF 20' DOWN STREAM IN A LOCATION RECOMMENDED BY THE FISHERIES BIOLOGIST, STREAM ALTERATION ENGINEER, AND THE RESIDENT ENGINEER. THE BOULDERS SHALL BE PAID FOR AS STONE FILL TYPE IV.
- ALL ON PROJECT SIGNS AND BARRICADES, AS REQUIRED BY THE ENGINEER, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBSIDIARY TO MOBILIZATION. ALL OFF PROJECT SIGNING WILL BE THE RESPONSIBILITY OF THE TOWN OF STANNARD.
- ITEM 529.15 "REMOVAL OF STRUCTURE", SHALL BE USED TO REMOVE THE EXISTING STRUCTURE INCLUDING ANY PORTIONS OF THE SUBSTRUCTURE NOT REMOVED UNDER THE ITEMS "COFFERDAM" OR "UNCLASSIFIED CHANNEL EXCAVATION".
- ITEM 525.44 "BRIDGE RAILING - HEAVY DUTY STEEL BEAM / FASCIA MOUNTED / STEEL TUBING" SHALL BE FABRICATED AND SUPPLIED PER STANDARD SB-R7-90 EXCEPT AS FOLLOWS:
  - HEAVY DUTY STEEL BEAM RAIL SHALL BE AASHTO M180, CLASS B - TYPE 4.
  - THE POSTS AND SPECIAL WASHERS SHALL BE AASHTO M222 / M222M STEEL.
  - STRUCTURAL STEEL TUBING SHALL BE ASTM A847.
  - BOLTS SHALL BE AASHTO M164 TYPE III.
  - THE BRIDGE RAILING AND RELATED HARDWARE SHALL NOT BE GALVANIZED, WITH THE ONLY EXCEPTION TO THAT BEING THE ANCHOR BOLTS AND ANCHOR BOLT NUTS WHICH WILL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
- THE STONE FILL TYPE IV SHALL BE PLACED IN FRONT OF THE ABUTMENTS BEFORE THE SLAB IS POURED.
- THE DECK SHALL BE GIVEN A BROOM FINISH NORMAL TO CENTER LINE OF BRIDGE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO THE STANNARD BROOK AS DIRECTED BY THE RESIDENT ENGINEER AND THE STANDARD SPECIFICATION SECTION 105.
- A PRECONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO ANY WORK BEING DONE. AT THAT TIME THE CONTRACTOR SHALL SUBMIT AN EROSION / SEDIMENT CONTROL PLAN WITH A SCHEDULE OF EVENTS. THIS PLAN SHALL BE SITE SPECIFIC.

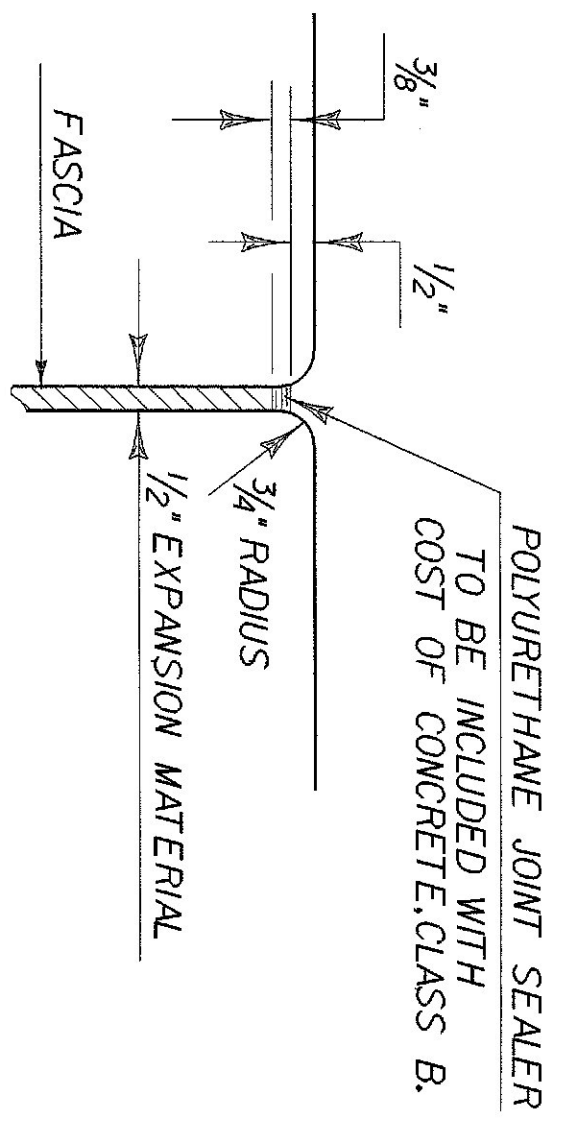


WORK NOT PERFORMED DUE TO EXISTING BOULDERS IN STREAM AS PER ORDER OR 5-0002 ISSUED BY CHRISTOPHER BRUNELLE, E.I. STREAM ALTERATION ENGINEER

## LOCATE BENCH MARK AND BRIDGE PLAQUE

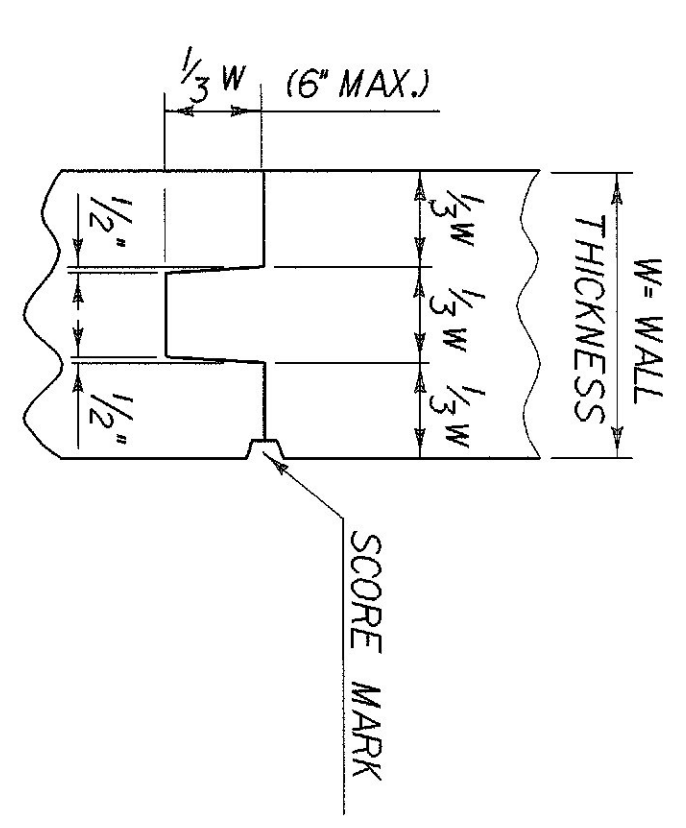
THE BENCH MARK AND BRIDGE PLAQUE WILL BE SUPPLIED BY THE AGENCY OF TRANSPORTATION AND SHALL BE INSTALLED BY THE CONTRACTOR AT ABUTMENT #1 ON THE RIGHT SIDE AS SHOWN OR AS DIRECTED BY THE ENGINEER.

VIEW "A - A"

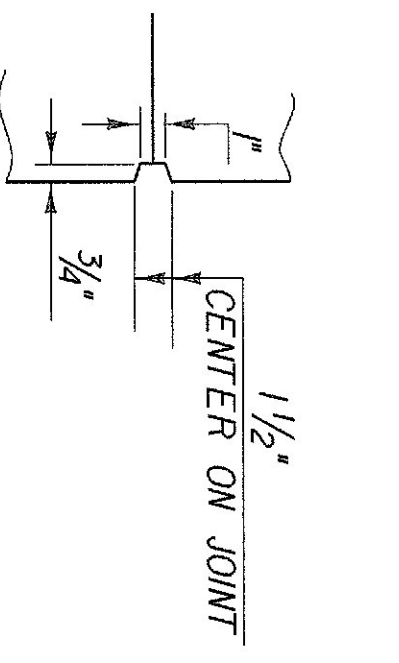


## JOINT BETWEEN FASCIA AND ABUTMENT

SCALE: 1" = 1'



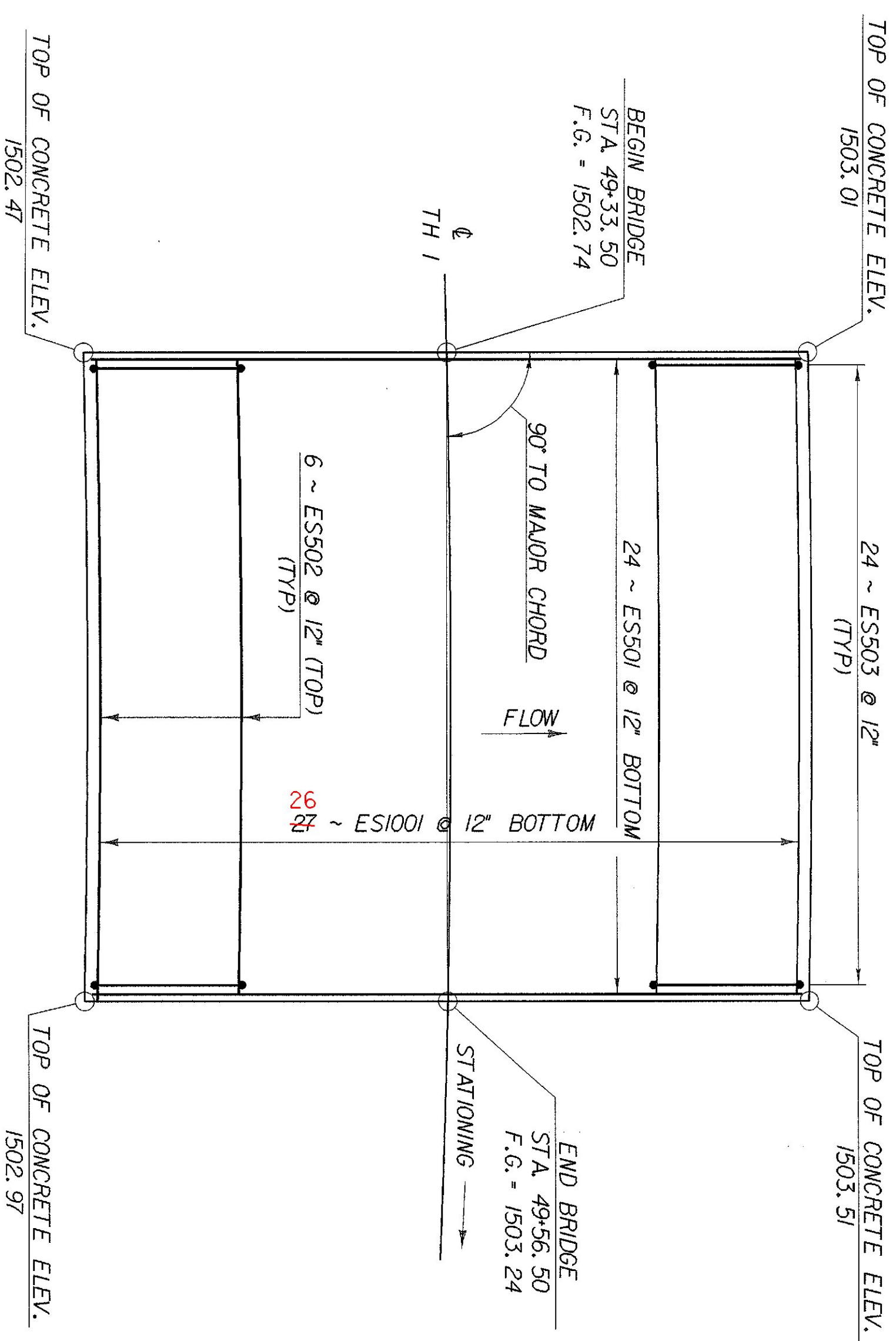
## TYPICAL CONCRETE CONSTRUCTION JOINT



## SCORE MARK DETAIL

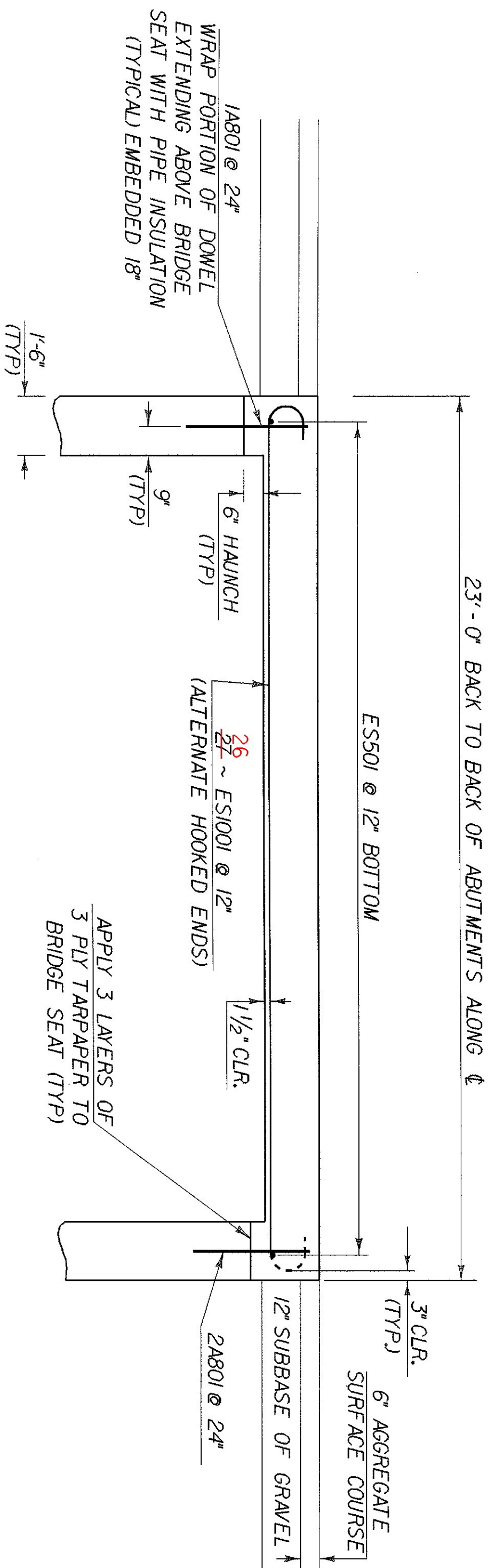
## STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of	STANNARD	Bridge No.	6
Highway No.	TH 1	Log Sto.	49-45.00
TH 1 OVER STANNARD BROOK			
GENERAL NOTES			
Designed By	B. DONALD	Drawn By	K.M. HIGGINS
Checked By	W.B. STAMMONS	Bridge Design Supervisor	C.P. WILLIAMS
PROJECT	STANNARD	PROJECT NO.	TH2-8919
I.G.C. info.	MA881024Structures/Installation	Sheet	9 of 21



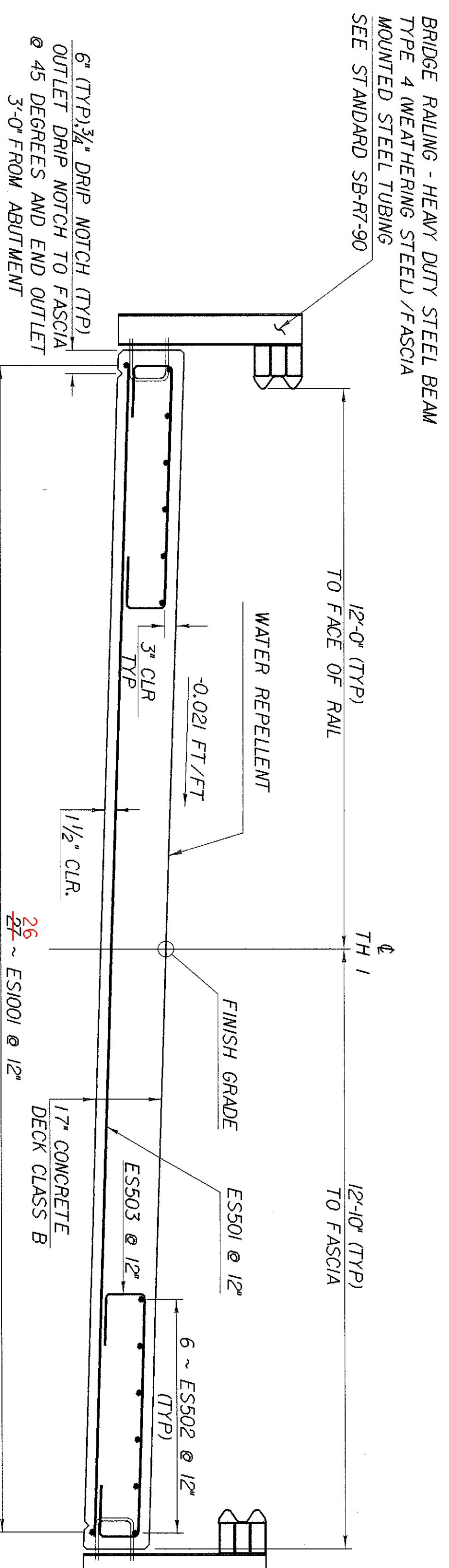
**DECK REINFORCING PLAN**

SCALE 1/4" = 1'-0"



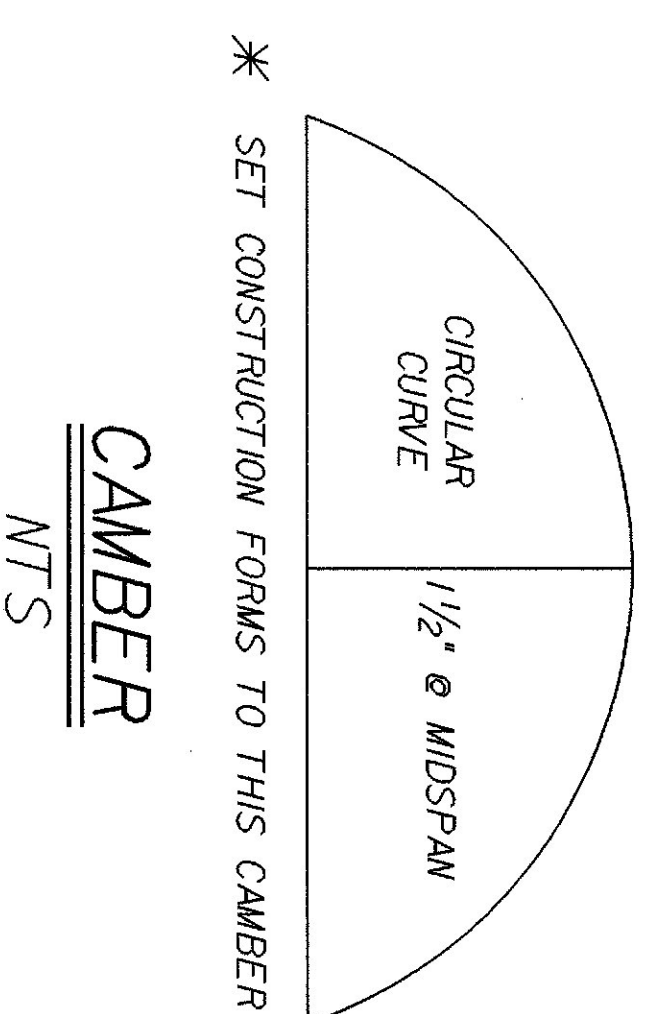
**SLAB ELEVATION ALONG TH 1**

SCALE 3/8" = 1'-0"



**TYPICAL SLAB SECTION**

SCALE 1/2" = 1'-0"



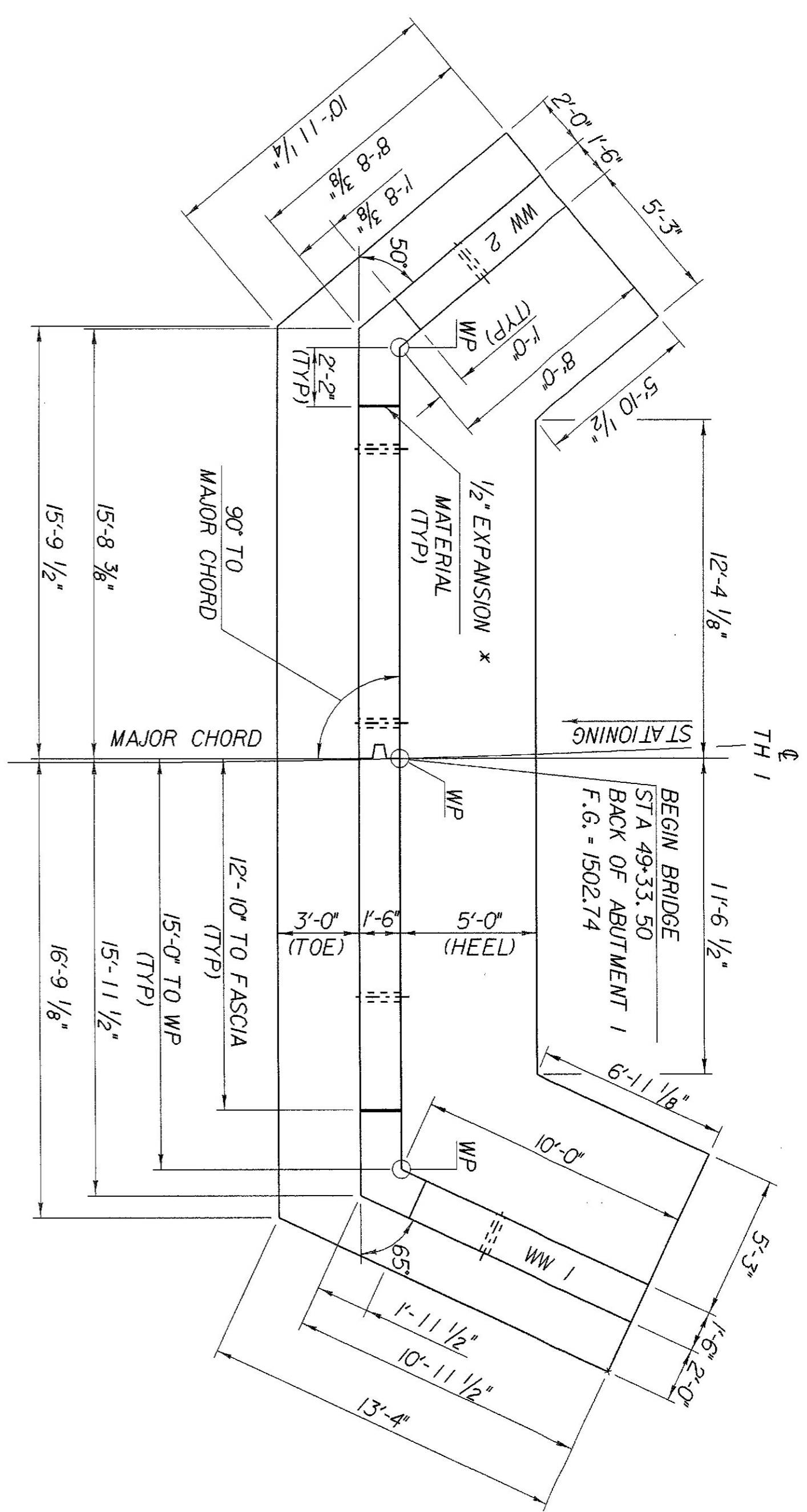
**CAMBER**  
 NTS

NOTE: TOTAL DEAD LOAD DEFLECTION @ MIDSPAN = 0.24"

- 1) COST OF TARPAPER AND PIPE INSULATION AND ITS APPLICATION SHALL BE SUBSIDIARY TO CONCRETE CLASS B.
- 2) E - DENOTES EPOXY COATED REINFORCING STEEL

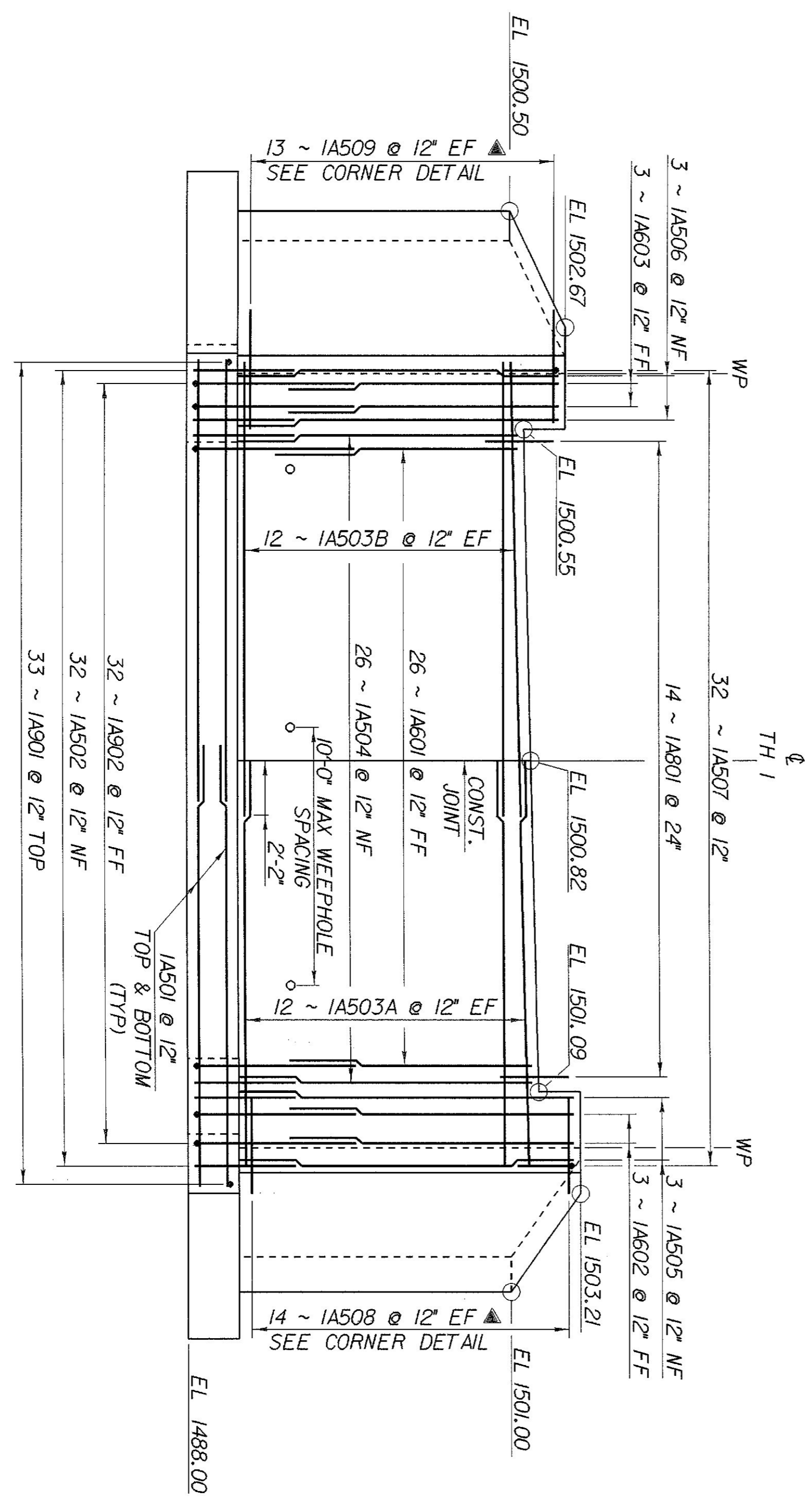
**STATE OF VERMONT  
 AGENCY OF TRANSPORTATION**

Town of	STANWARD	Bridge No.	6
Highway No.	TH 1	Log Sta.	49-45
TH 1 OVER STANWARD BROOK			
SLAB REINFORCING DETAILS			
Designed By	B. DONALD	Drawn By	K.M. HIGGINS
Checked By	W.B. STAMMDS	Bridge Design Supervisor	C.P. WILLIAMS
PROJECT	STANWARD	PROJECT NO.	TH2-8919
I.G.C. Info. 10/98 10/94 Structures 10/94 bldg		Sheet 10 of 21	



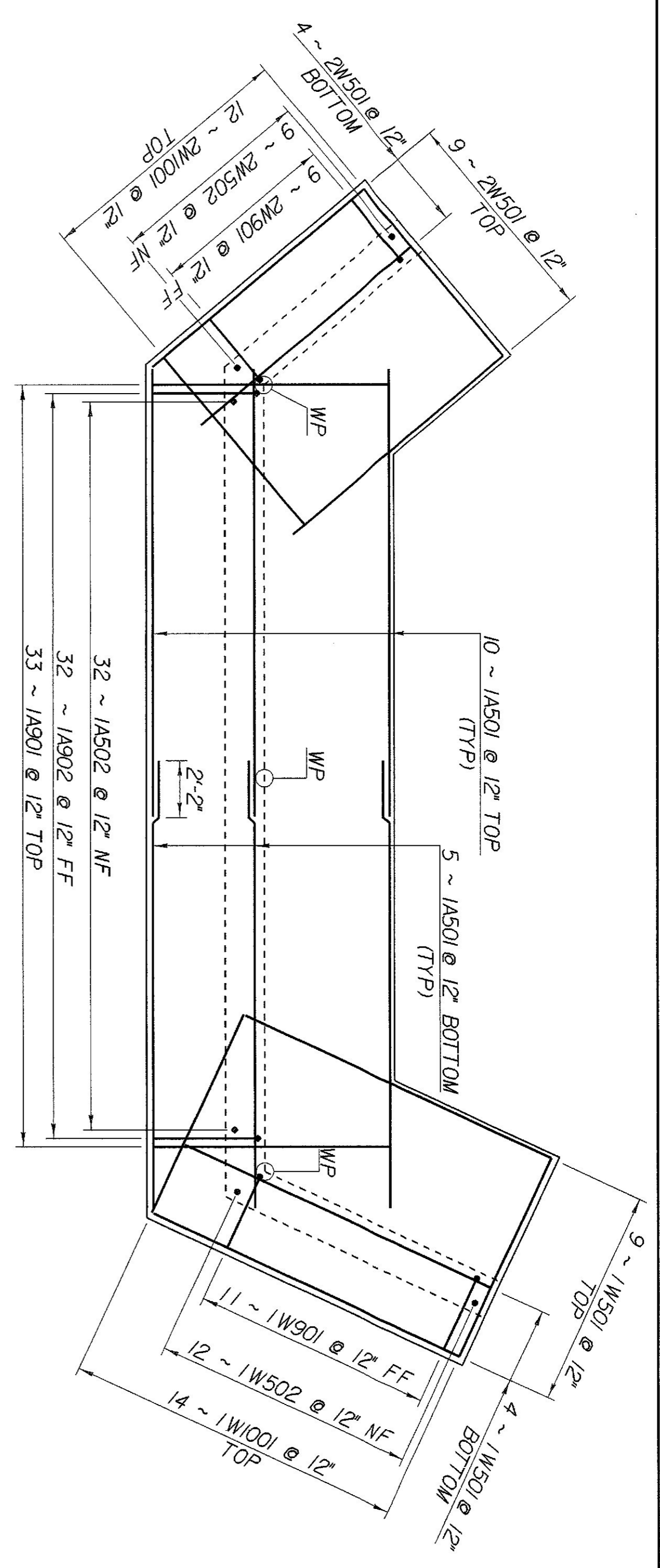
ABUTMENT NO. 1 PLAN

SCALE 1/4" = 1'-0"



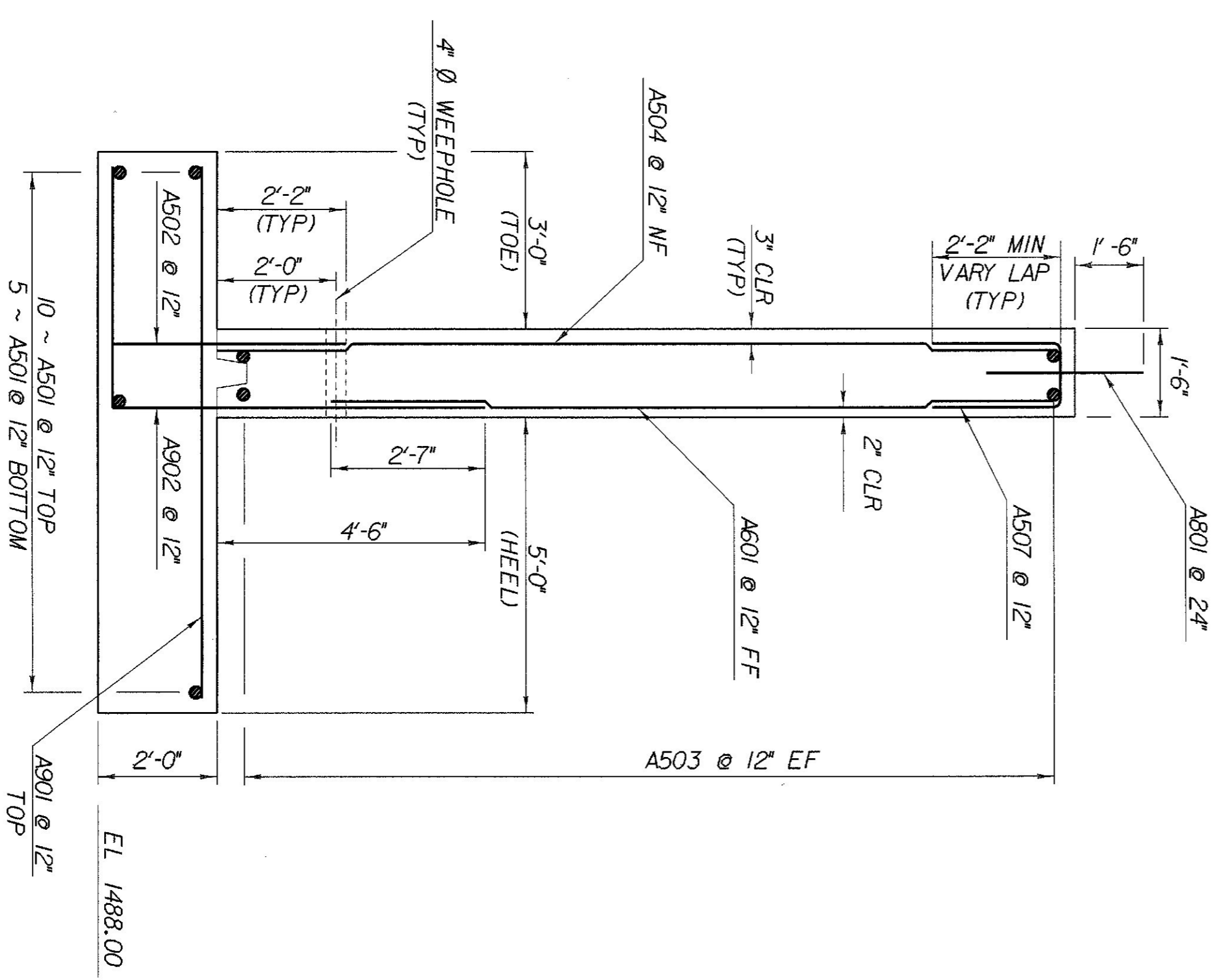
ABUTMENT NO. 1 ELEVATION

SCALE 1/4" = 1'-0"



FOOTING REINFORCING PLAN

SCALE 1/4" = 1'-0"



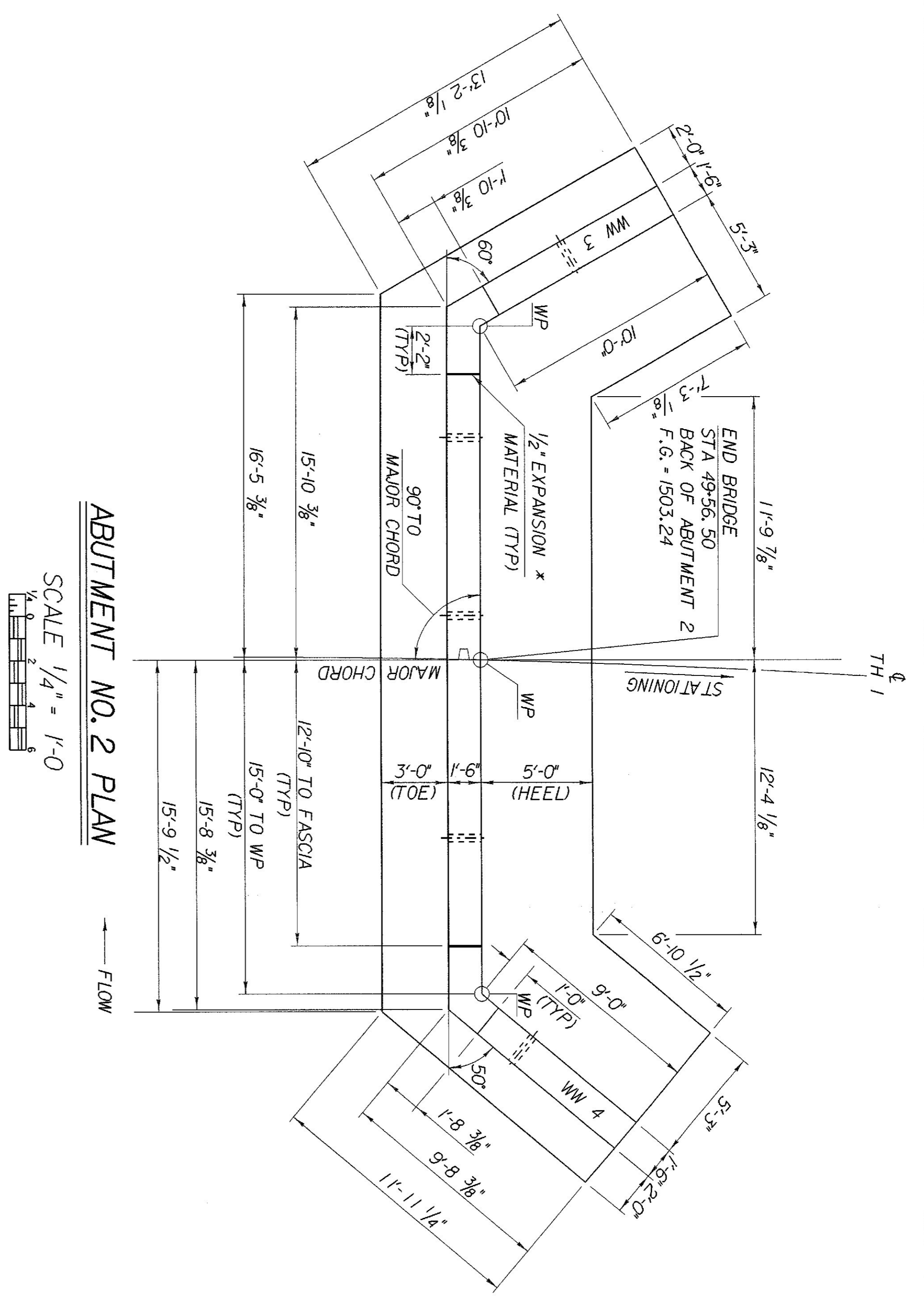
ABUTMENT TYPICAL

SCALE 1/2" = 1'-0"

- NOTES:
- ▲ - CUT TO FIT IN FIELD
  - NF - NEAR FACE
  - FF - FAR FACE
  - EF - EACH FACE
  - \* - PAYMENT TO BE INCLUDED IN UNIT PRICE FOR CONCRETE CLASS B

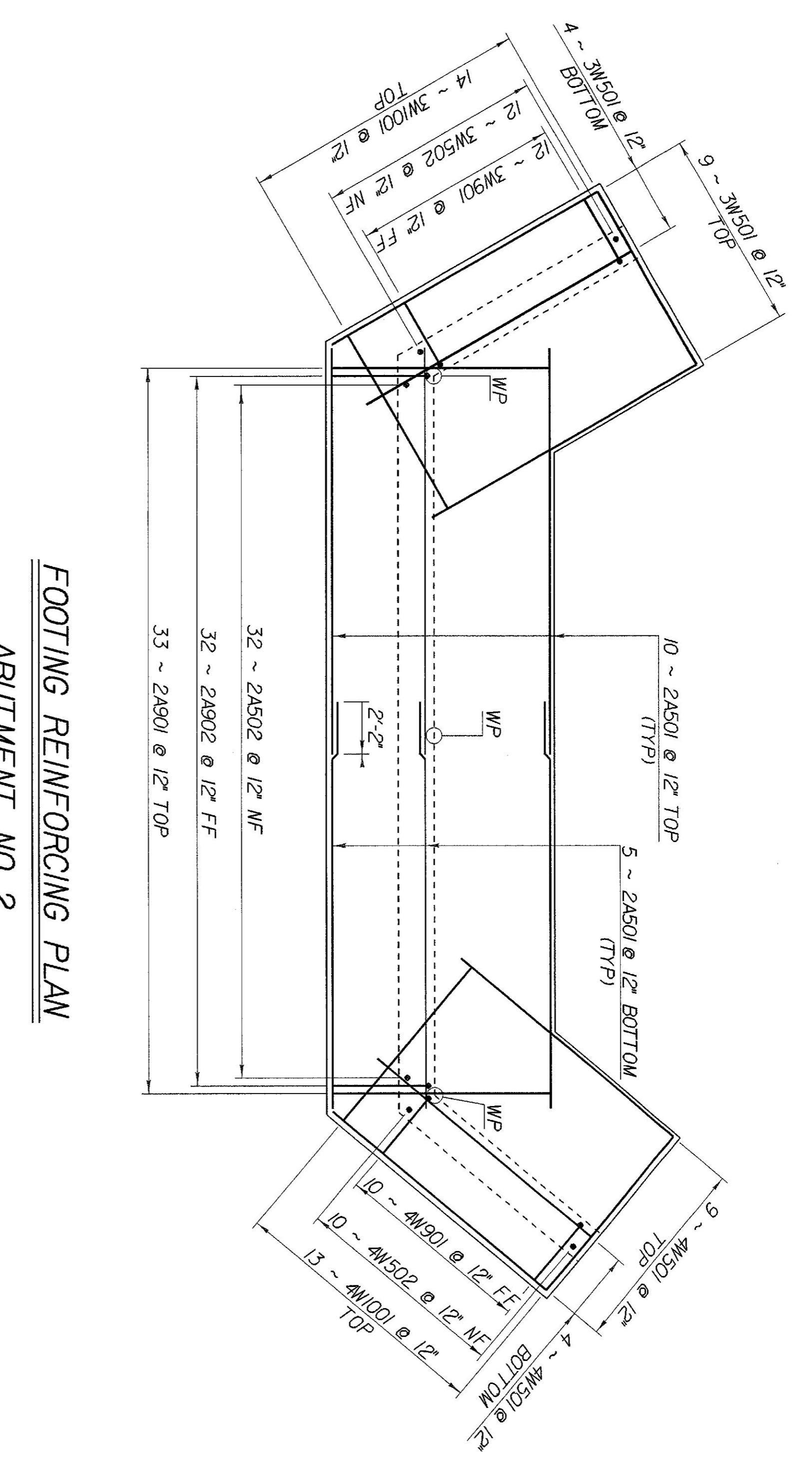
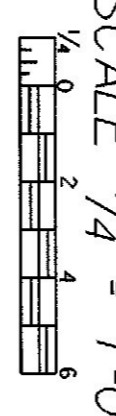
<p>STATE OF VERMONT AGENCY OF TRANSPORTATION</p>		Town of	STANWARD	Bridge No.	6
		Highway No.	TH 1	Log Sta.	49+45.00
<p>TH 1 OVER STANWARD BROOK</p>		<p>ABUTMENT NO. 1 DETAILS</p>			
		Designed By	B. DONALD	Drawn By	K.M. HIGGINS
Checked By	W.B. SYMONDS	Date	7/97	Bridge Design Supervisor	C.P. WILLIAMS
PROJECT	STANWARD	PROJECT NO.	TH2-899	L.C.C. Info.	1A88/JDA/Structures/J040404
<p>Bridge Sheet No.</p>		<p>Sheet 11 of 21</p>			

PLOTTED 07-MAR-2001



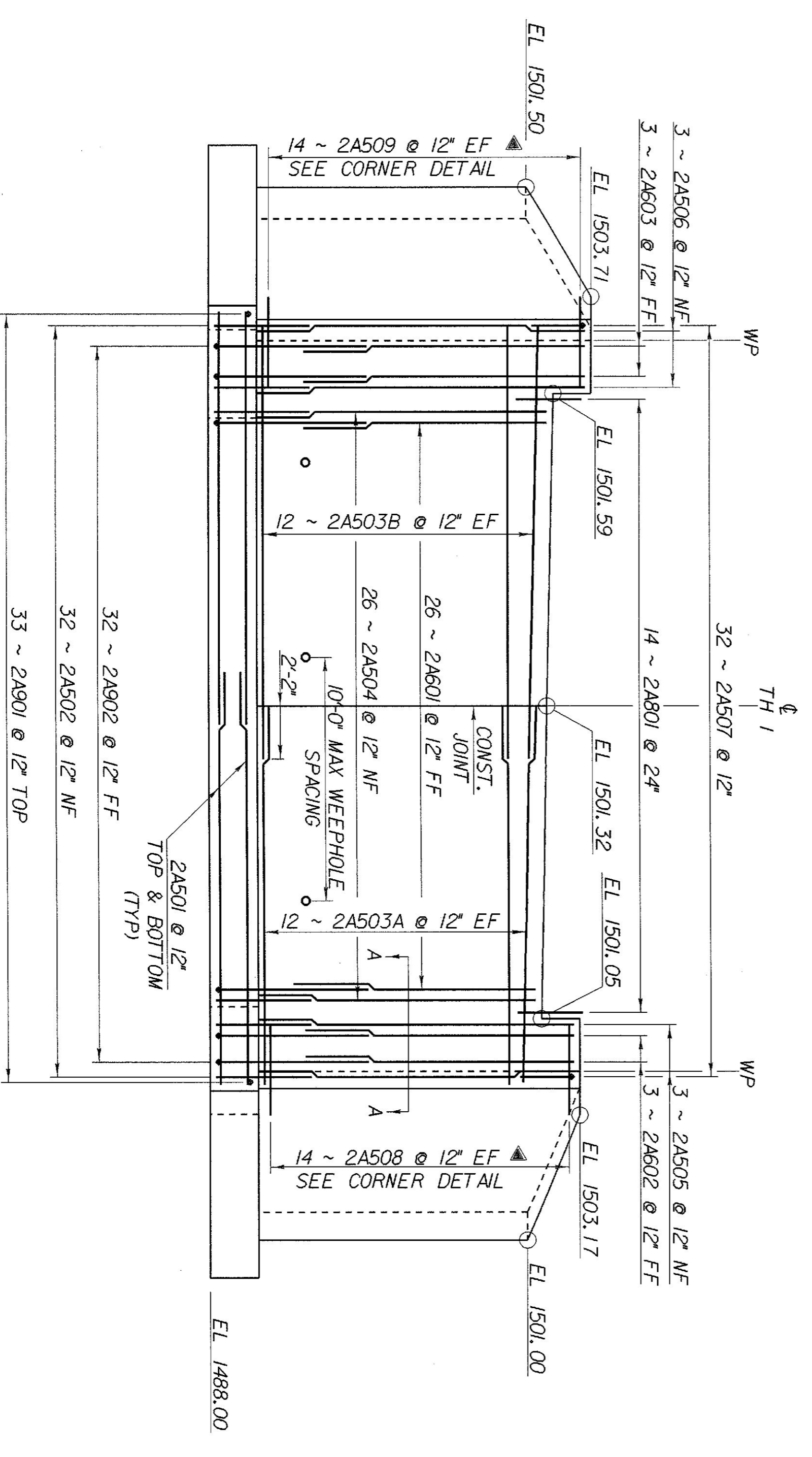
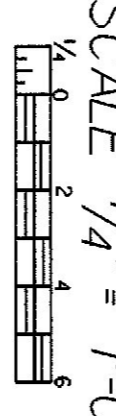
**ABUTMENT NO. 2 PLAN**

SCALE 1/4" = 1'-0"



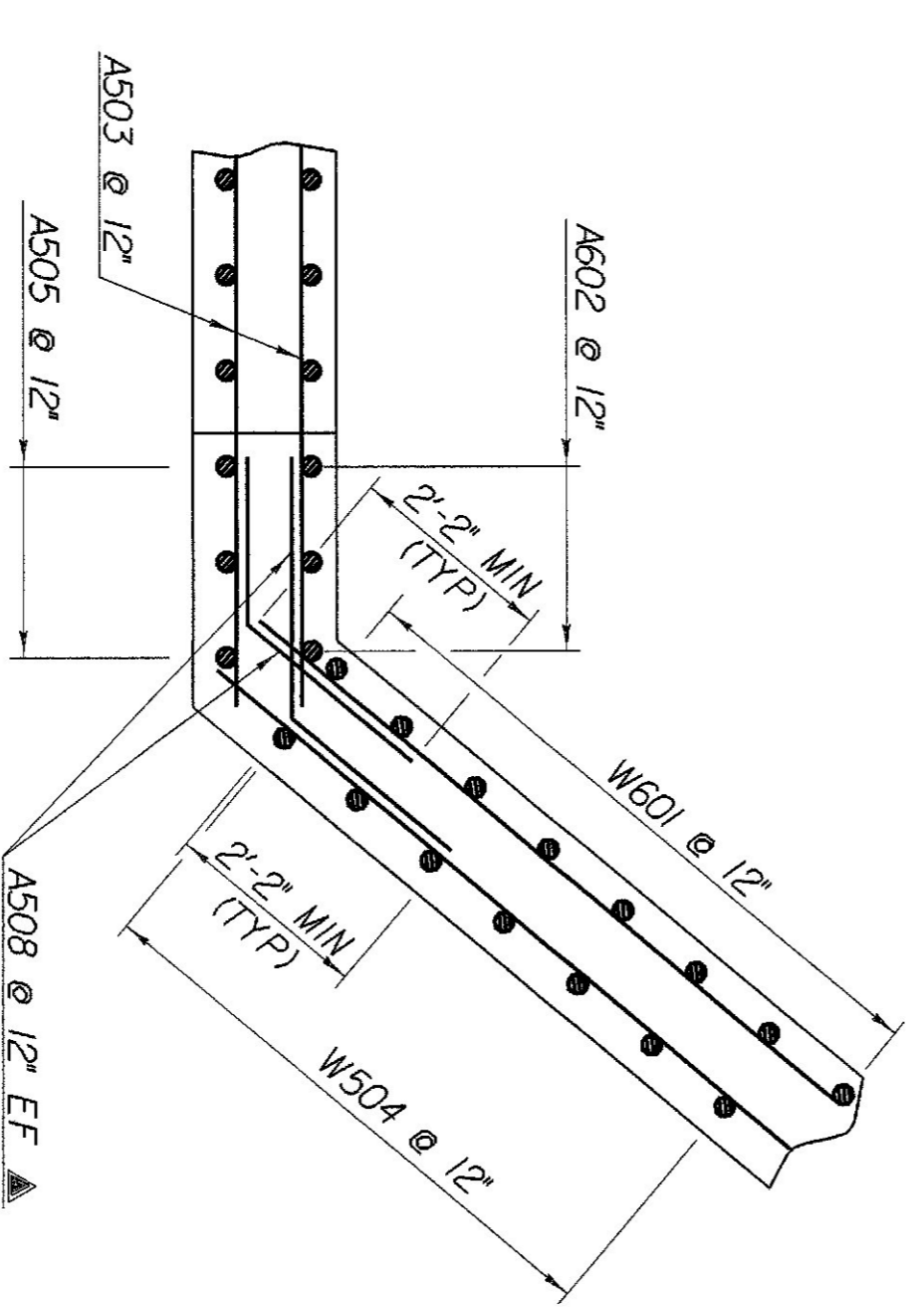
**FOOTING REINFORCING PLAN**

SCALE 1/4" = 1'-0"



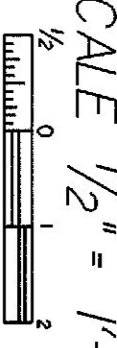
**ABUTMENT NO. 2 ELEVATION**

SCALE 1/4" = 1'-0"



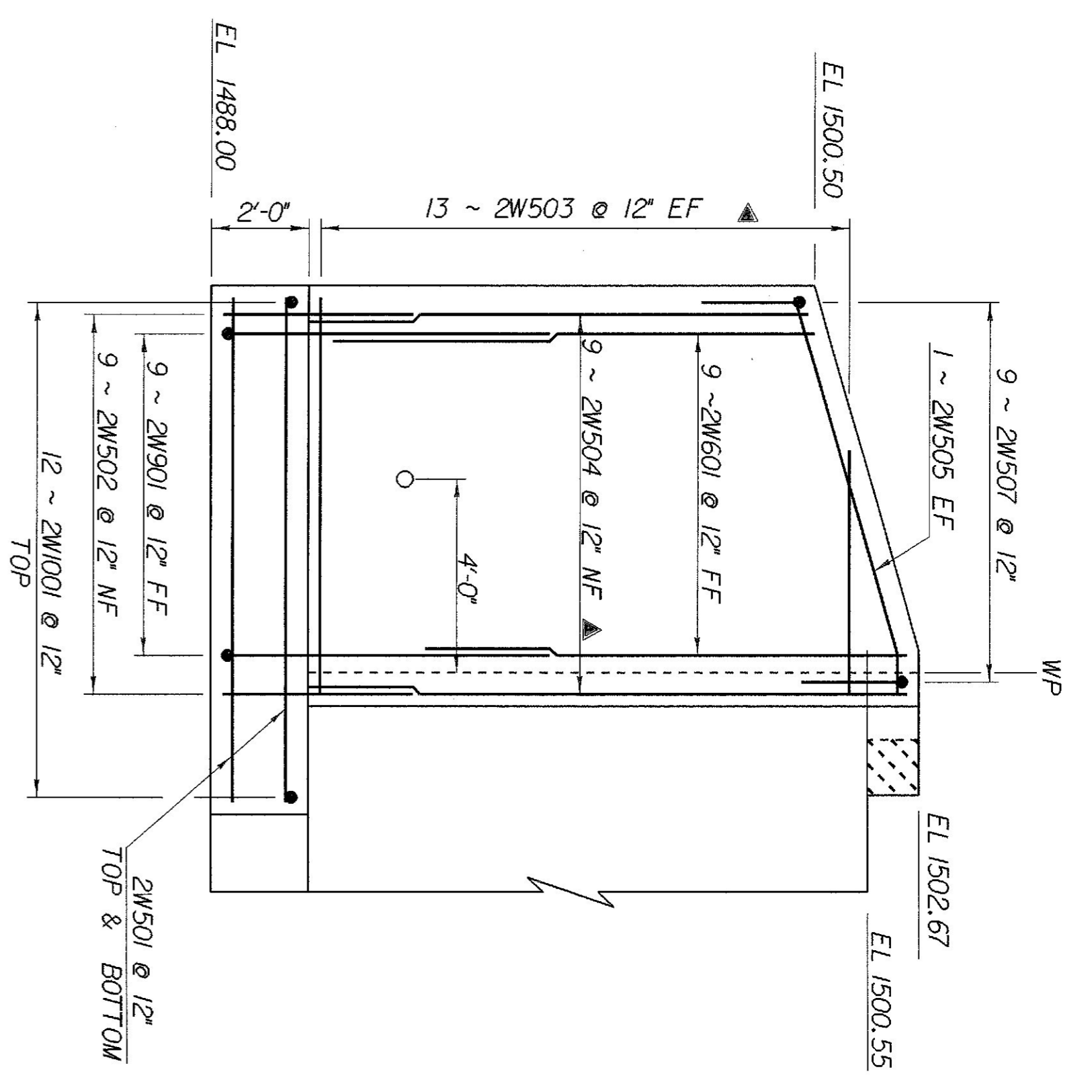
**SECTION A-A  
SIMILAR ALL CORNERS**

SCALE 1/2" = 1'-0"



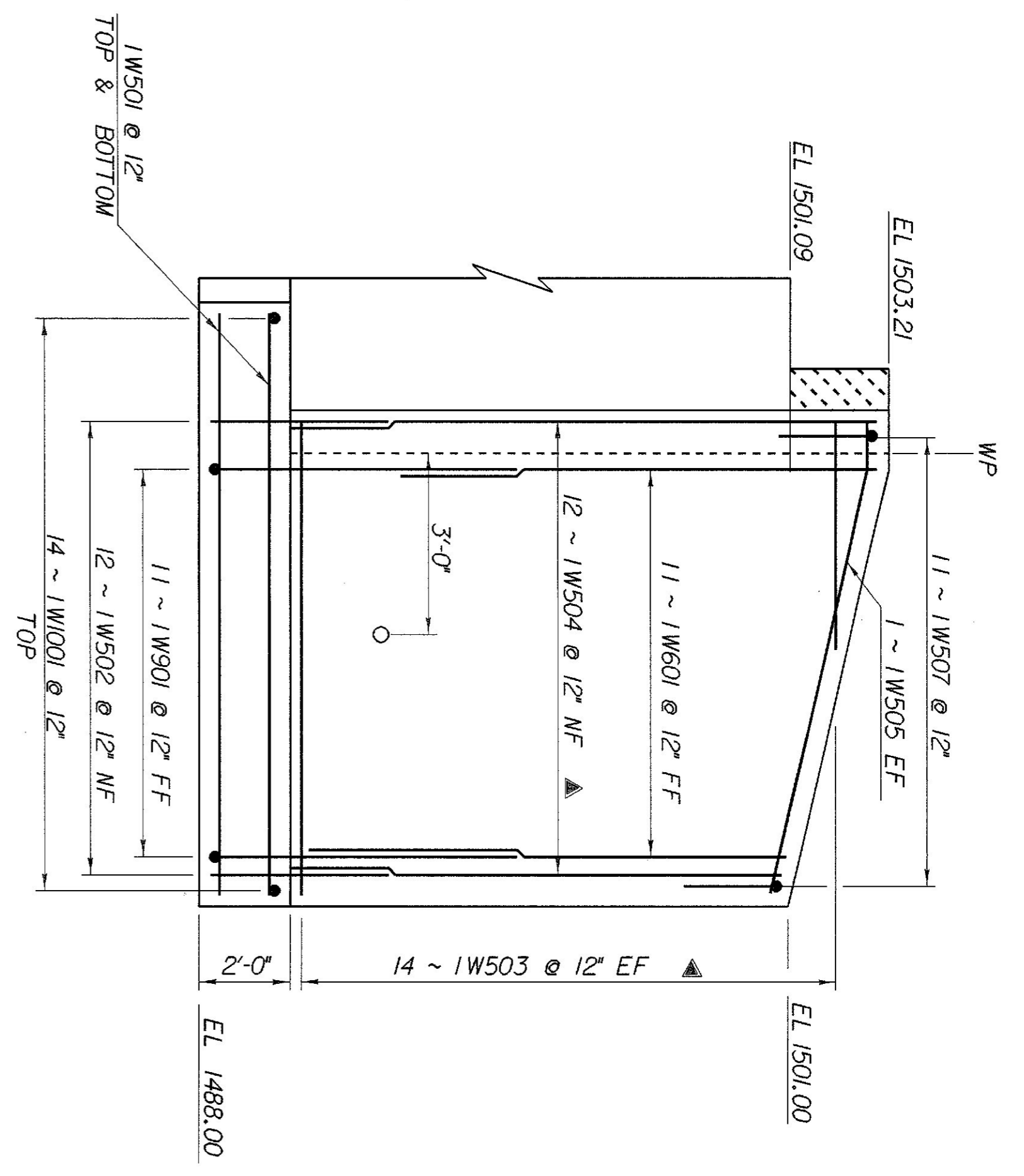
- NOTES:
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  - EF - EACH FACE
  - \* - PAYMENT TO BE INCLUDED IN UNIT PRICE FOR CONCRETE CLASS B

<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b>		Town of	STANNARD	Bridge No.	6
		Highway No.	TH 1	Loop Sta.	49+45.00
		TH 1 OVER STANNARD BROOK			
<b>ABUTMENT NO. 2 DETAILS</b>		Designed By	B. DONALD	Drawn By	K.M. HIGGINS
Checked By	W.B. SYMONDS	Date	7/97	Bridge Design Supervisor	C.P. WILLIAMS
PROJECT	STANNARD	PROJECT NO.	TH2-8919	Date	7/97
I.G.C. INFO.		M:\8919\Structures\jdh\4942		Sheet	12 of 21



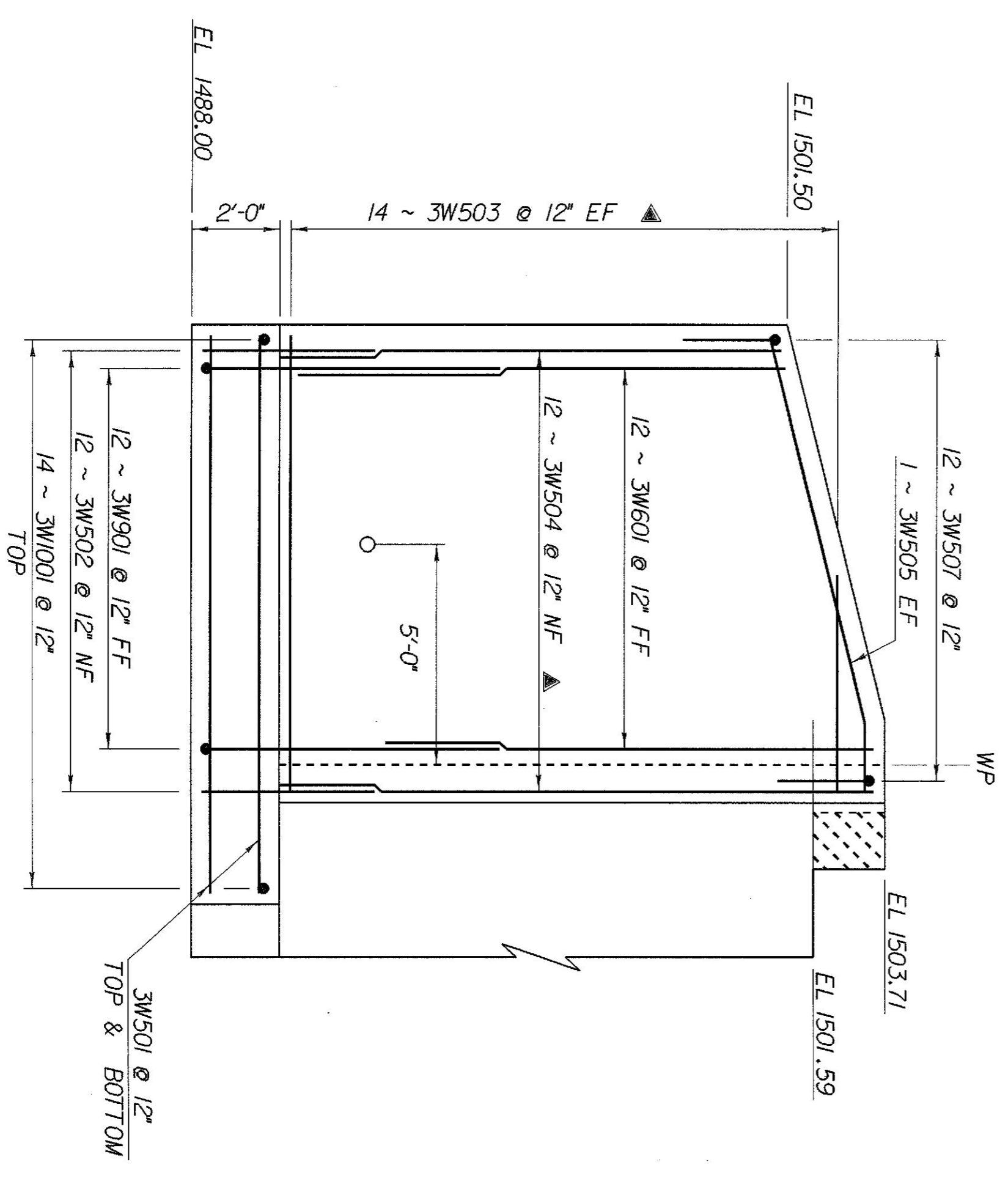
WINGWALL NO. 2 ELEVATION

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



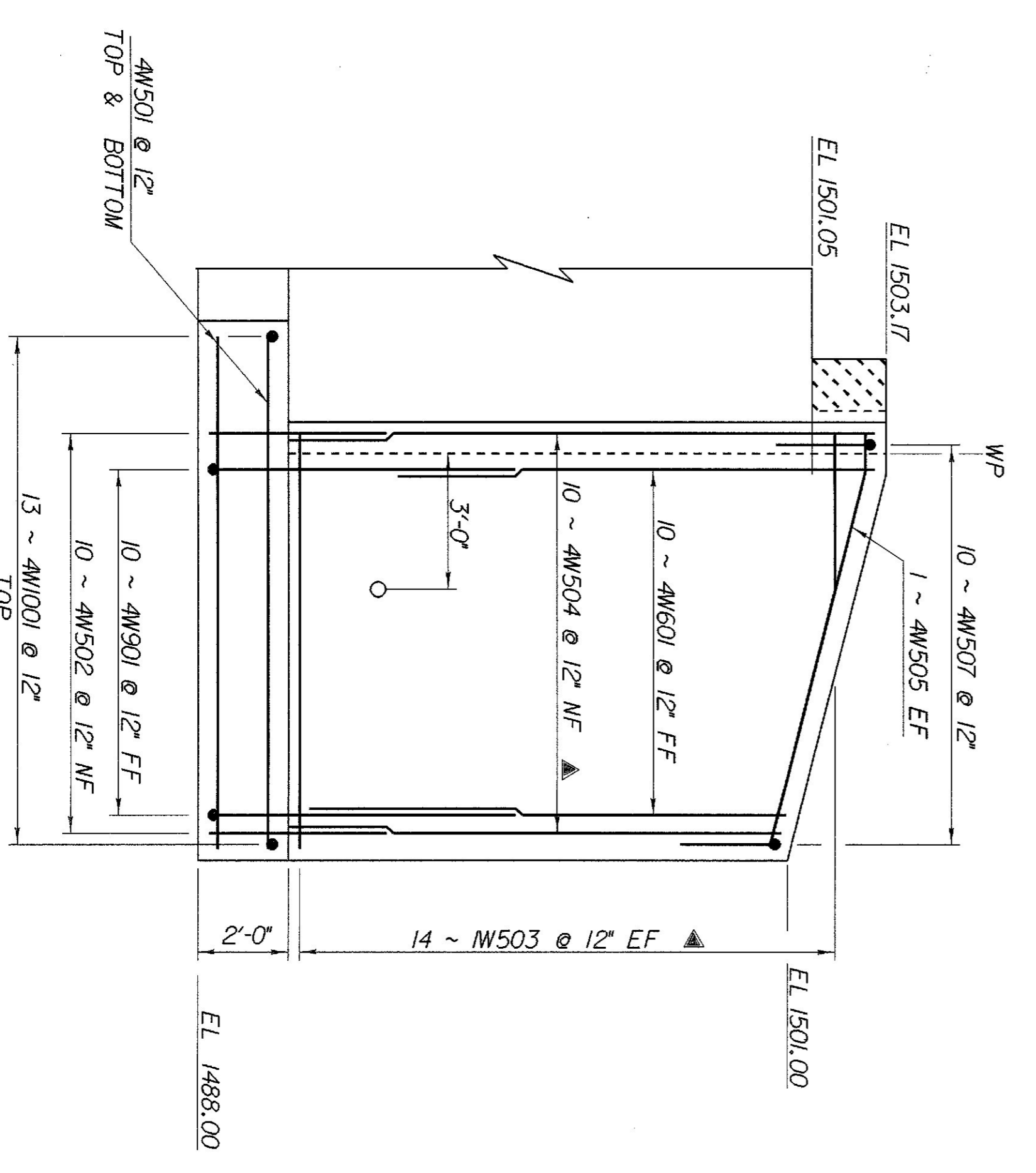
WINGWALL NO. 1 ELEVATION

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



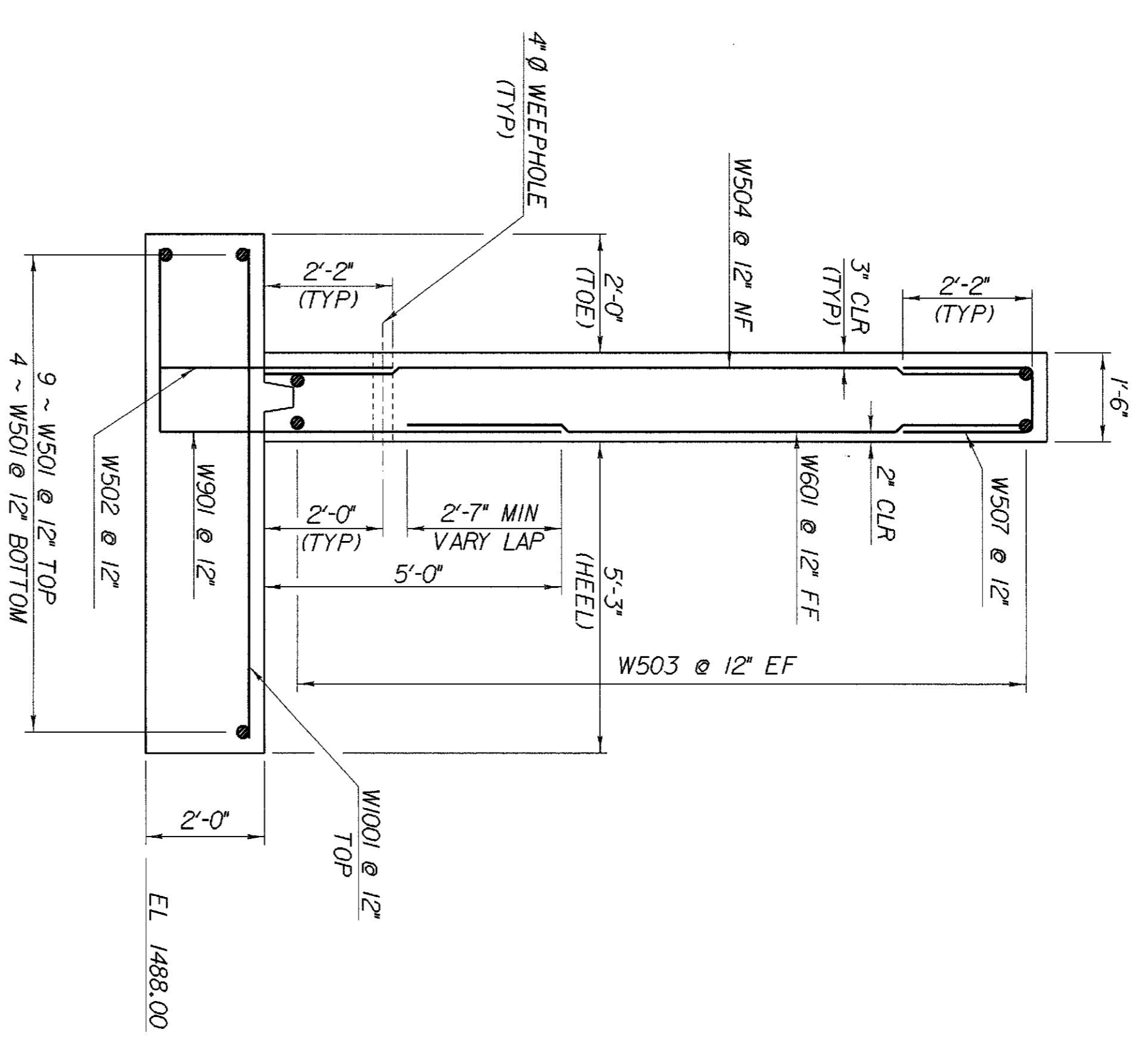
WINGWALL NO. 3 ELEVATION

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



WINGWALL NO. 4 ELEVATION

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



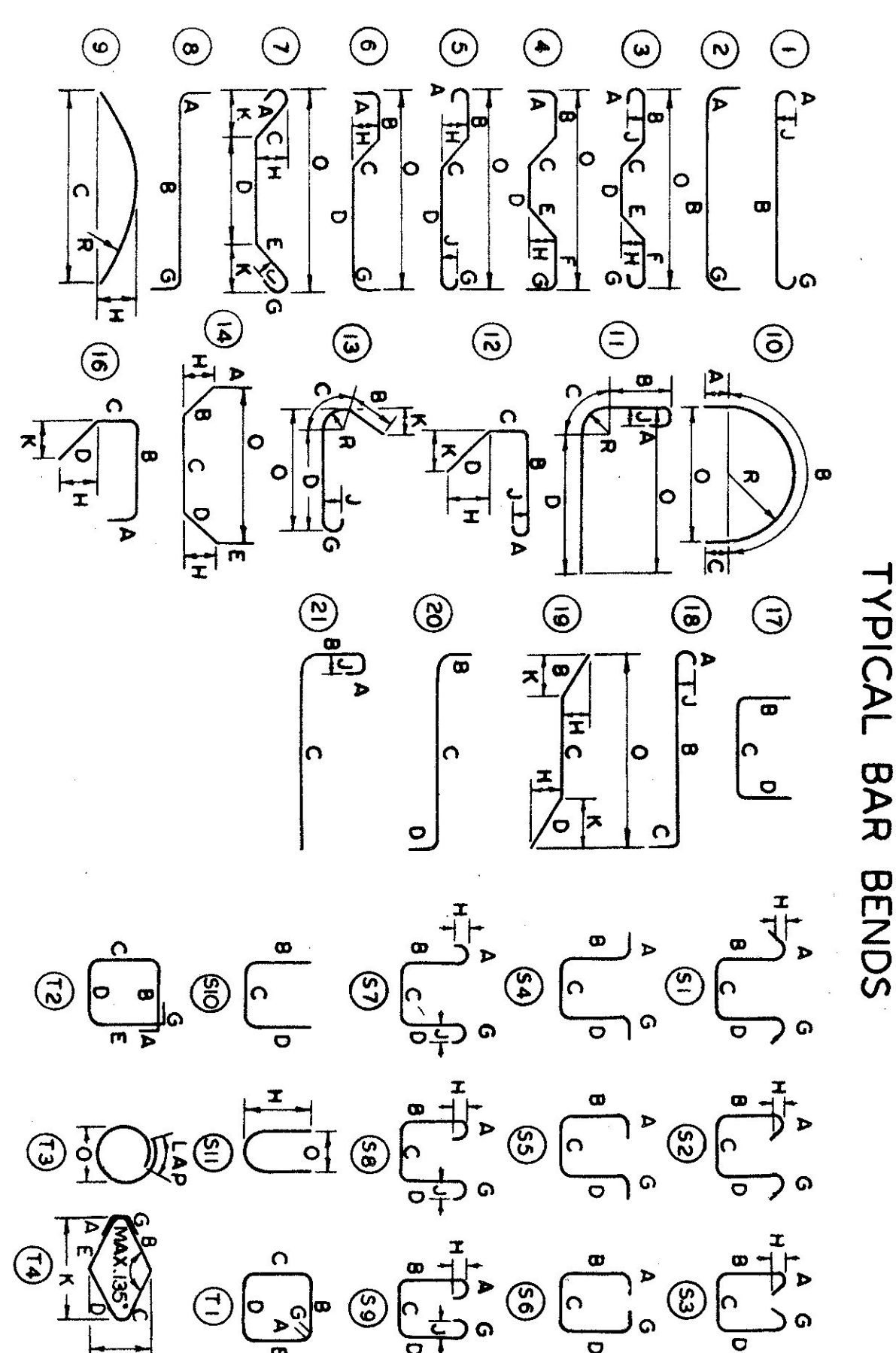
WINGWALL TYPICAL

SCALE  $\frac{1}{2}'' = 1'-0''$

- NOTES:
- ▲ - CUT TO FIT IN FIELD
  - NF - NEAR FACE
  - FF - FAR FACE
  - EF - EACH FACE

STATE OF VERMONT AGENCY OF TRANSPORTATION		Town of	STANNARD	Bridge No.	6
		Highway No.	TH 1	Log Sta.	49-45.00
TH 1 OVER STANNARD BROOK WINGWALL DETAILS		Designed By	B. DONALD	Drawn By	K.M. HIGGINS
		Checked By	W.B. SYMONDS	Bridge Design Supervisor	C.P. WILLIAMS
PROJECT	STANNARD	PROJECT NO.	TH2-8919		
L.G.C. Info.		MA8910aStructures/Johnson		Sheet	13 of 21

ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT PER FOOT	NOMINAL DIAMETER INCHES	CROSS SECTIONAL 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



NOTES

- 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-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED. 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".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "H" AND "G" ON STANDARD 180° AND 135° HOOKS.
- "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

ITEM NO.	PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1				SLAB													
2																	
3																	
4	25	5	25'-2"	E9501 STR													
5	13	5	22'-6"	E5502 STR													
6																	
7	21	10	23'-1"	E91001	1	1'-5"	22'-6"										
8																	
9																	
10	48	5	8'-10"	E5503 56	1	1'-0"	0'-11"	5'-0"	0'-11"								
11																	
12																	
13																	
14																	
15																	
16																	
17	30	5	17'-2"	IA501 STR													
18	32	5	3'-1"	IA502 STR													
19	24	5	17'-10"	IA503 STR													
20	24	5	15'-10"	IA503B STR													
21	27	5	10'-3"	IA504 STR													
22	3	5	12'-11"	IA505 STR													
23	3	5	12'-5"	IA506 STR													
24																	
25																	
26	27	6	8'-4"	IA601 STR													
27	3	6	11'-1"	IA602 STR													
28	3	6	10'-6"	IA603 STR													
29																	
30	16	8	3'-0"	IA901 STR													
31																	
32	34	9	9'-0"	IA901 STR													
33																	
34																	
35	3-2	5	6'-7"	IA502 17		2'-9"	1'-1"	2'-9"									
36	28	5	5'-4"	IA508 19		2'-8"	2'-8"										
37	26	5	6'-2"	IA509 19		3'-1"	3'-1"										
38																	
39	32	9	10'-4"	IA902 17		4'-1"	6'-3"										
40																	
41																	
42																	
43																	
44																	
45																	
46	13	5	12'-11"	IA501 STR													
47	12	5	3'-11"	IA502 STR													
48	28	5	10'-7"	IA503 STR													
49	12	5	12'-11"	IA504 STR													
50	2	5	9'-7"	IA505 STR													
51																	
52																	
53	11	6	10'-5"	IA601 STR													
54																	
55	15	10	8'-3"	IA1001 STR													
56																	
57																	
58	11	5	5'-5"	IA501 17		2'-2"	1'-1"	2'-2"									
59																	
60	12	9	9'-10"	IA901 17		3'-1"	6'-9"										
61																	
62																	
63																	
64																	
65																	
66	13	5	10'-7"	IA501 STR													
67	9	5	3'-11"	IA502 STR													
68	27	5	8'-5"	IA503 STR													
69	9	5	12'-5"	IA504 STR													
70	2	5	7'-4"	IA505 STR													
71																	
72																	
73	10	6	10'-0"	IA601 STR													
74																	
75	13	10	8'-3"	IA1001 STR													
76																	
77																	
78	9	5	5'-5"	IA501 17		2'-2"	1'-1"	2'-2"									
79																	
80	9	9	9'-10"	IA901 17		3'-1"	6'-9"										

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TOWN OF STANNARD BRIDGE NO. 6  
HIGHWAY NO. TH 1 LOG STA. 49445  
SURV. STA. 49445

TH 1 OVER STANNARD BROOK  
REINFORCING STEEL SCHEDULE

DESIGNED BY B. DONALD DRAWN BY B. DONALD  
CHECKED BY W. SYMONDS BRIDGE DESIGN SUPERVISOR  
PROJECT STANNARD PROJECT NO. TH2-8919  
DATE 7/97 C.P. WILLIAMS DATE 7/97

BRIDGE SHEET NO. SHEET 14 OF 21

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-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED. 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".

2. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.

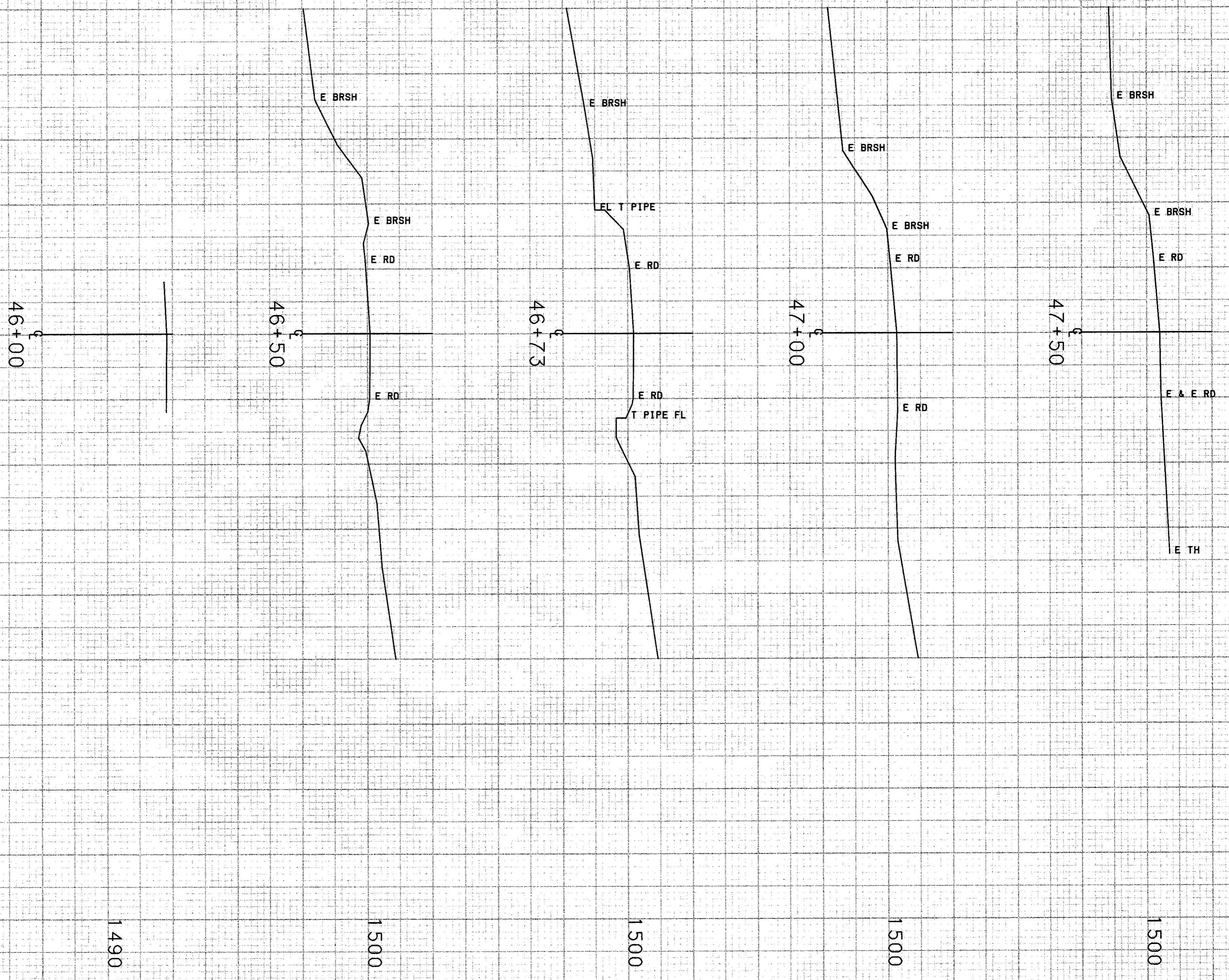
3. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "H" AND "G" ON STANDARD 180° AND 135° HOOKS.

4. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.

5. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.

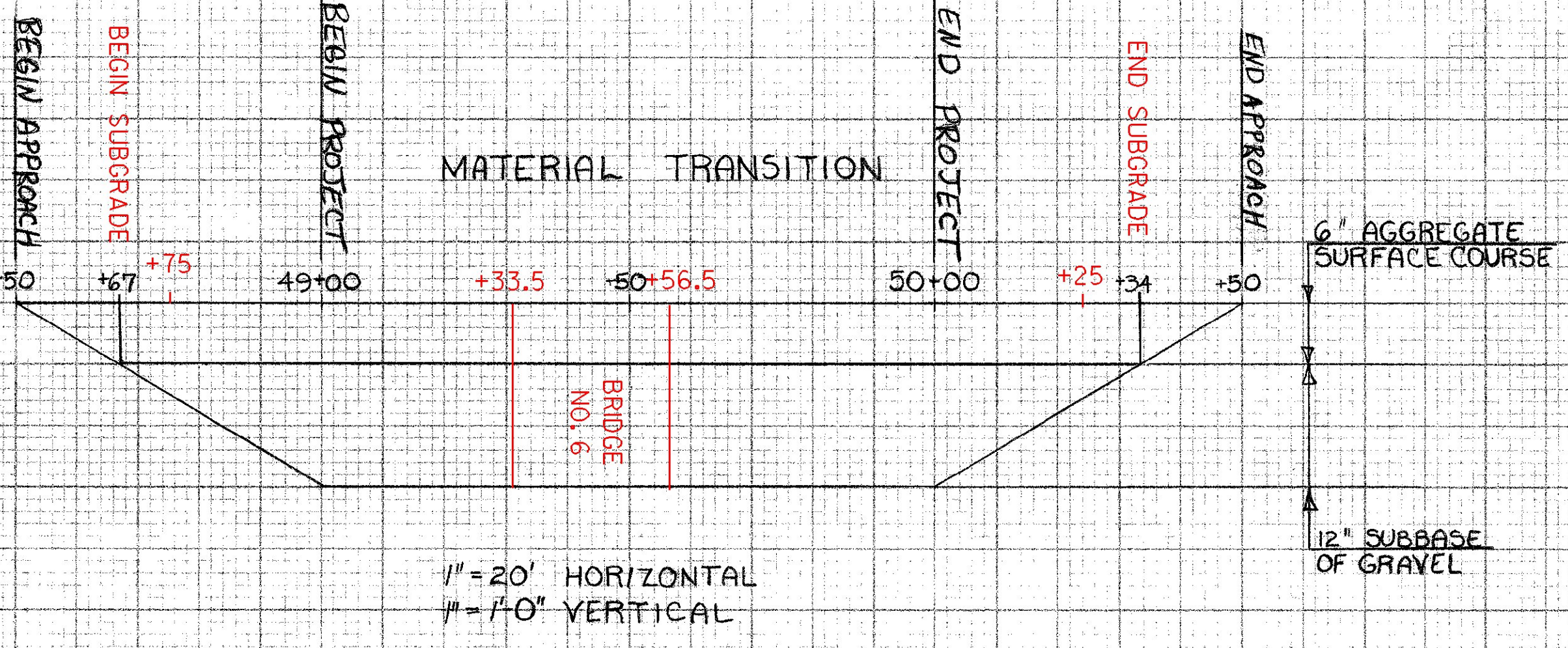
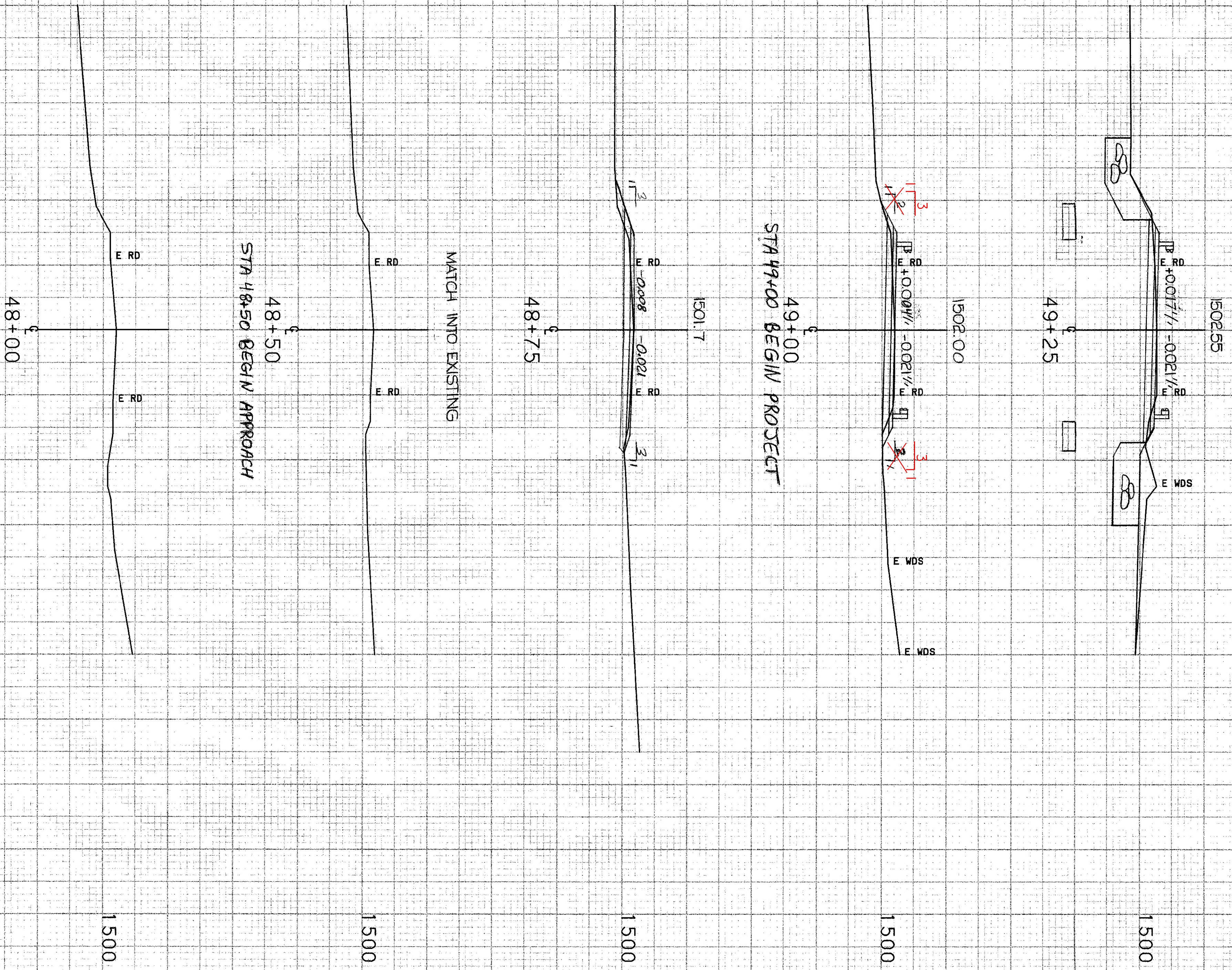
6. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

▲ DENOTES BARS TO BE CUT IN FIELD.  
\* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.  
△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.



FROM ST.A. 46+00 TO ST.A. 47+50  
 PROJECT NAME STANNARD MI  
 NO. TH28919  
 SURVEYED BY FLANDERS  
 SHEET 5 OF 21 SHEETS  
 PLOTTED 04/10/89  
 03/89 0211

SCALE 1" = 10 FEET

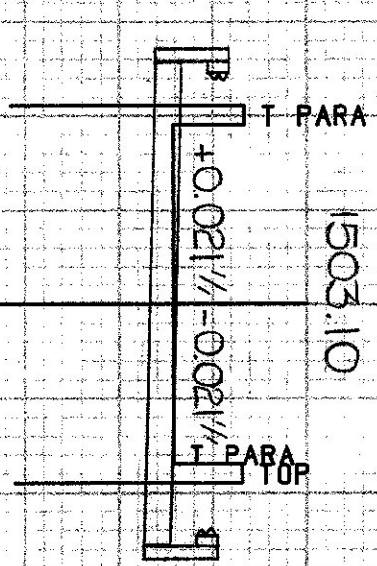


1" = 20' HORIZONTAL  
1" = 1'-0" VERTICAL

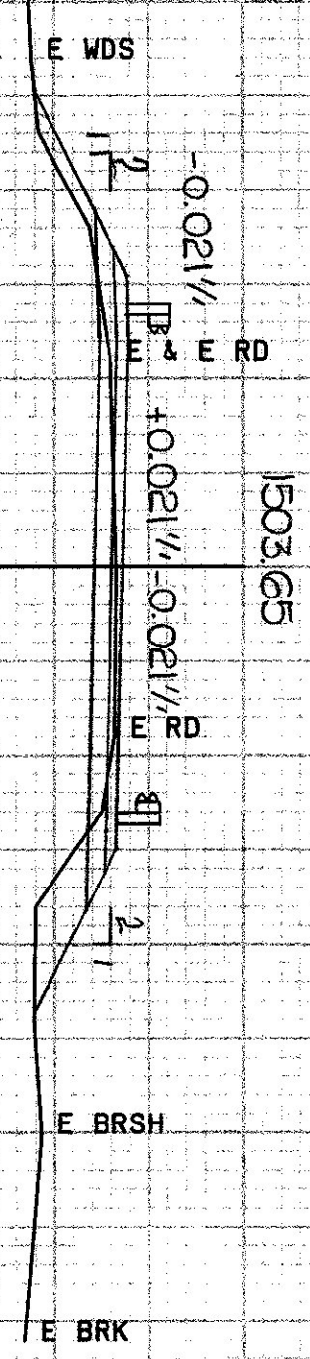
SCALE 1" = 10 FEET

FROM STA. 48+00 TO STA. 49+25  
PROJECT NAME STANNARD MI  
SURVEYED BY TH28919 F LANDERS  
SHEET 16 OF 21 SHEETS  
PLOTTED 04/10/89  
03/89 0211

STATION 49+35.50 - BEGIN BRIDGE



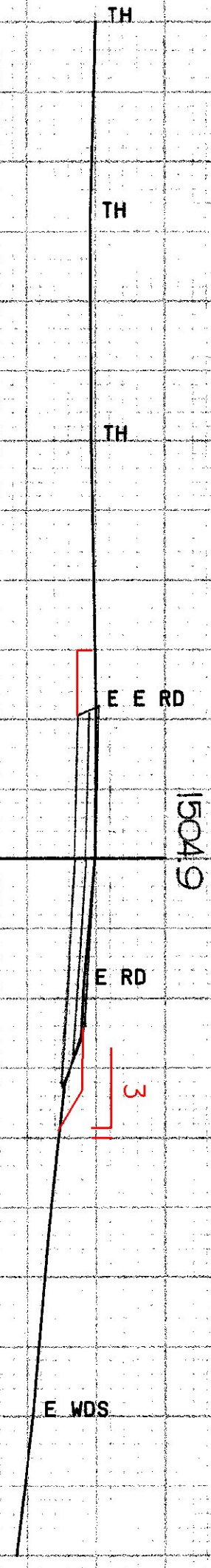
STATION 49+56.50 - END BRIDGE



STA 50+00 END PROJECT

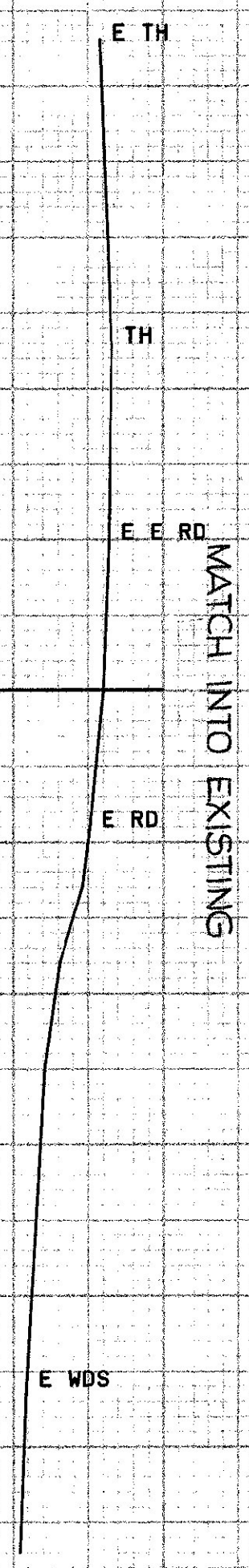


50+25



STA 50+50 END APPROACH

50+50



MATCH INTO EXISTING

SCALE 1" = 10 FEET

1 500

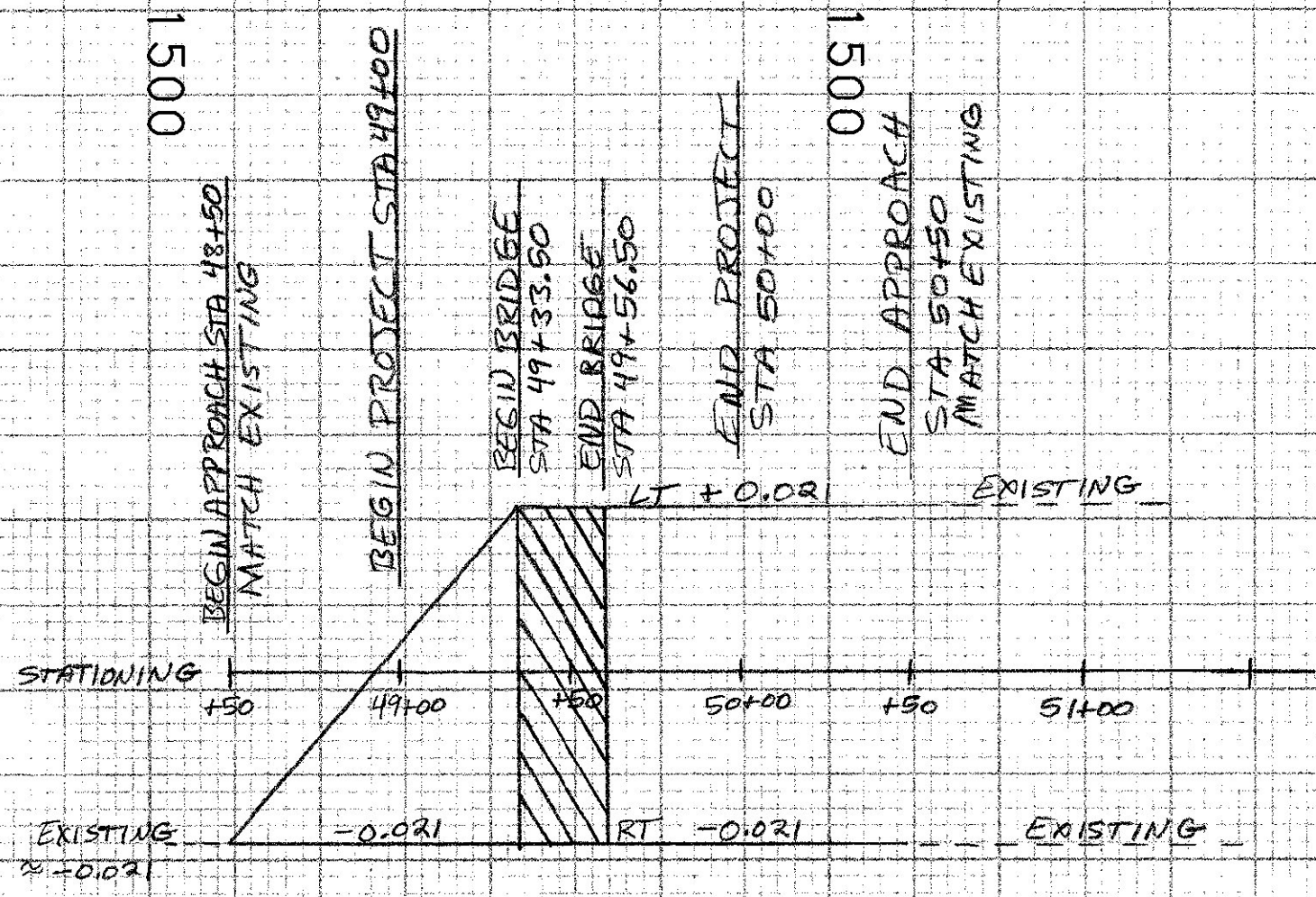
1 500

1 500

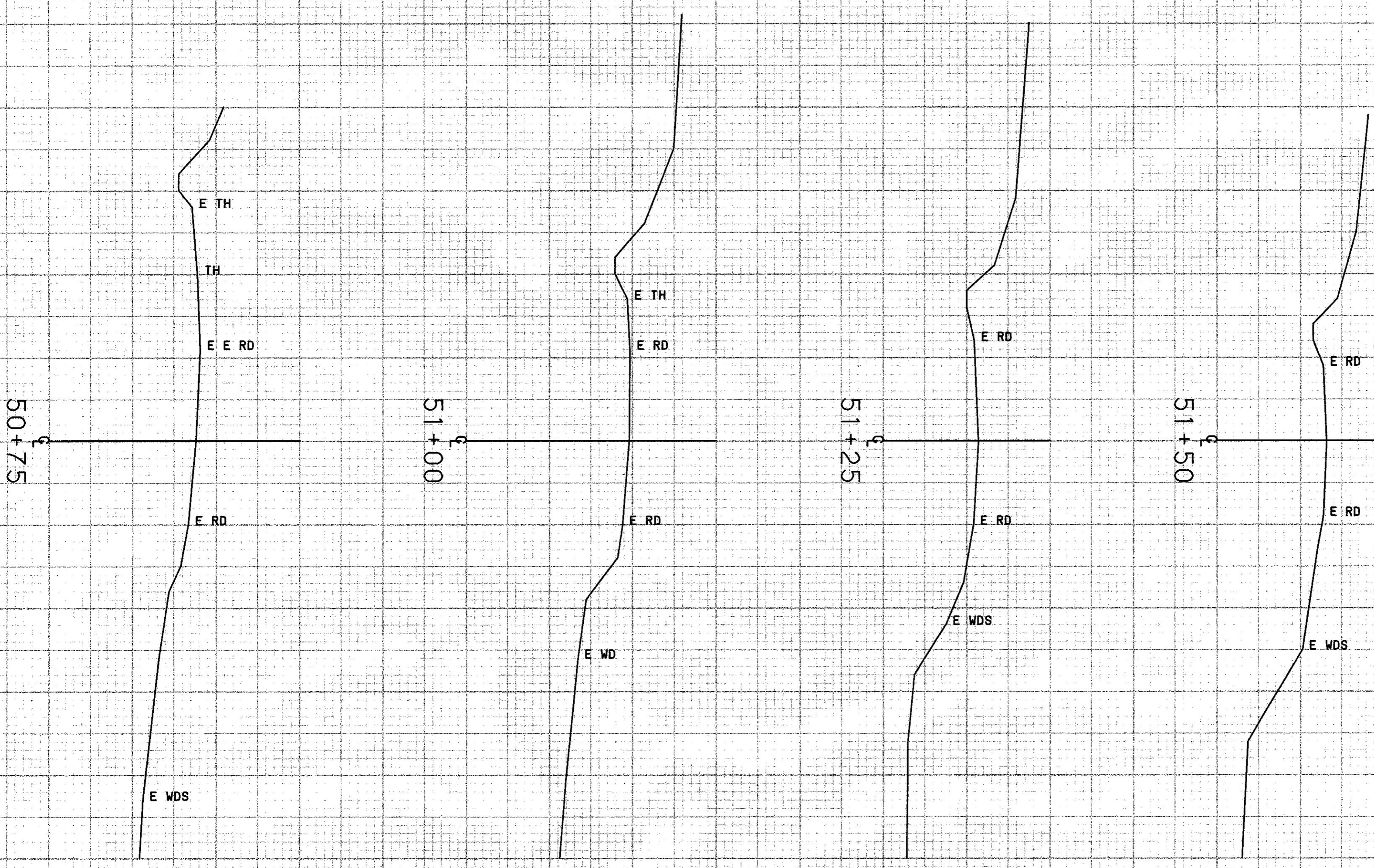
1 500

1 500

FROM STA. 49+50 TO STA. 50+50  
 PROJECT NAME STANNARD MI  
 SURVEYED BY TH28919 FLANDERS  
 SHEET 21 OF 21 SHEETS  
 PLOTTED 04/10/89  
 03/89 0211



BANKING DIAGRAM  
 VERTICAL SCALE: 1" = 0.021"  
 HORIZONTAL SCALE: 1" = 50'



1500

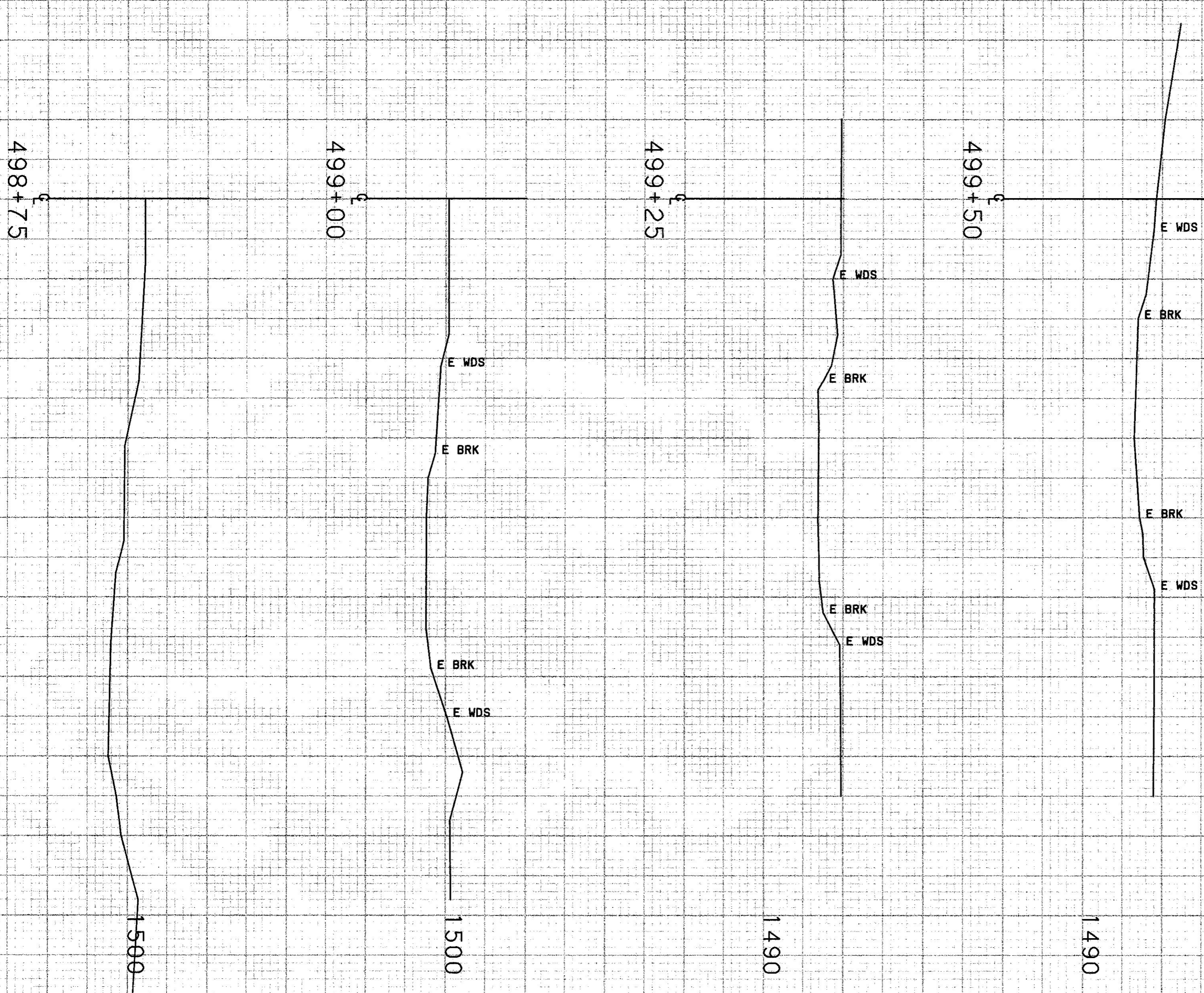
1500

1510

1510

SCALE 1" = 10 FEET

FROM STA.	50+75	TO STA.	51+50
PROJECT NAME	STANNARD MI		
NO.	TH28919		
SURVEYED BY	FLANDERS		
SHEET	8	OF	21
	SHEETS		
	PLOTTED 04/10/89		
	03/89 0211		

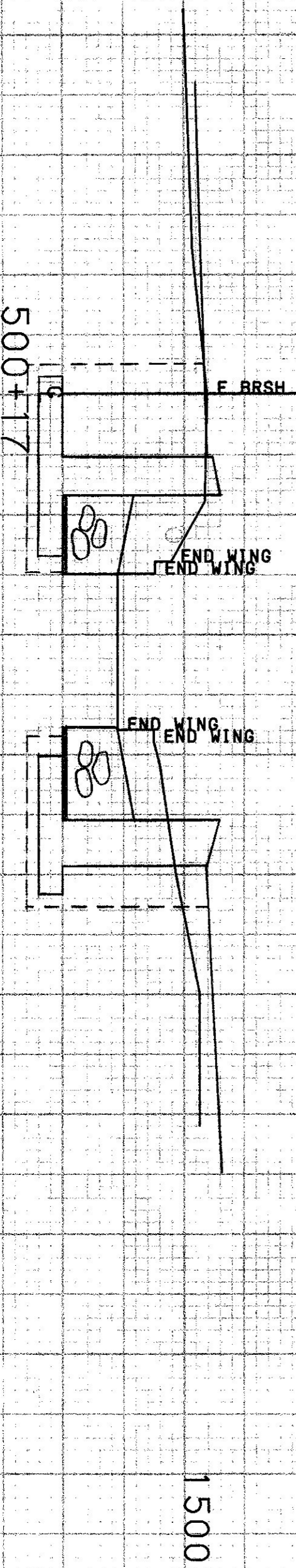
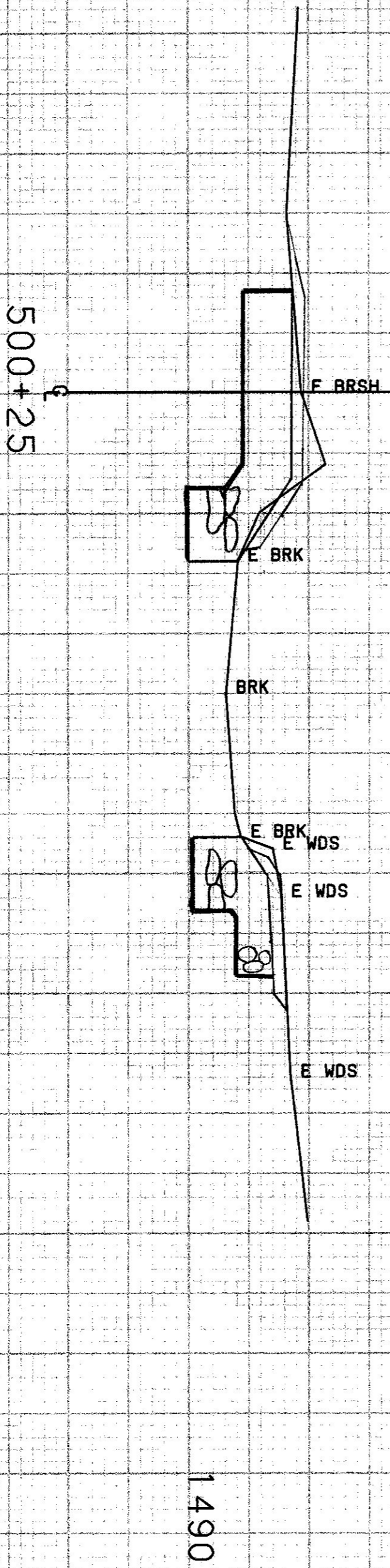
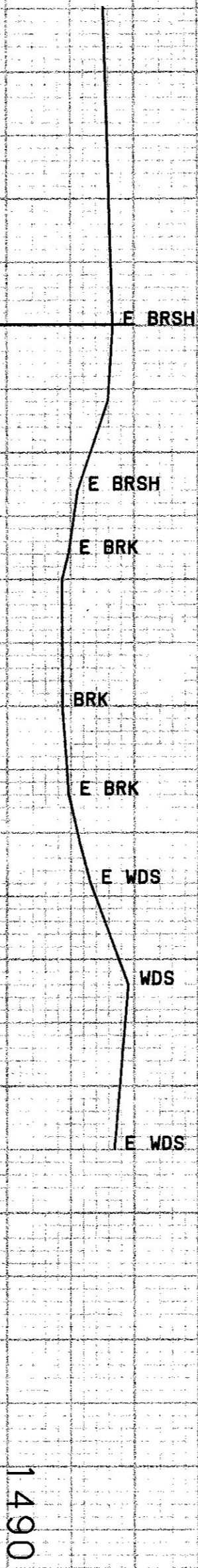
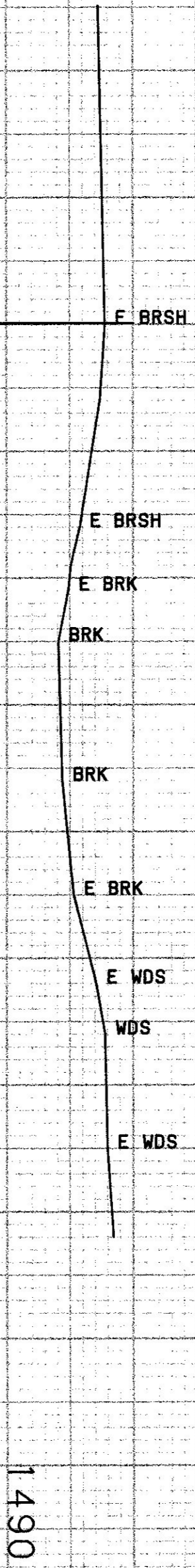


SCALE 1" = 10 FEET

FROM STA.	498+75	TO STA.	499+50
PROJECT NAME	STANWARD CHAN		
NO.	1128919		
SURVEYED BY	FLANDERS		
SHEET	9	OF 21	SHEETS
			PLOTTED 04/10/89
			03/89 0211

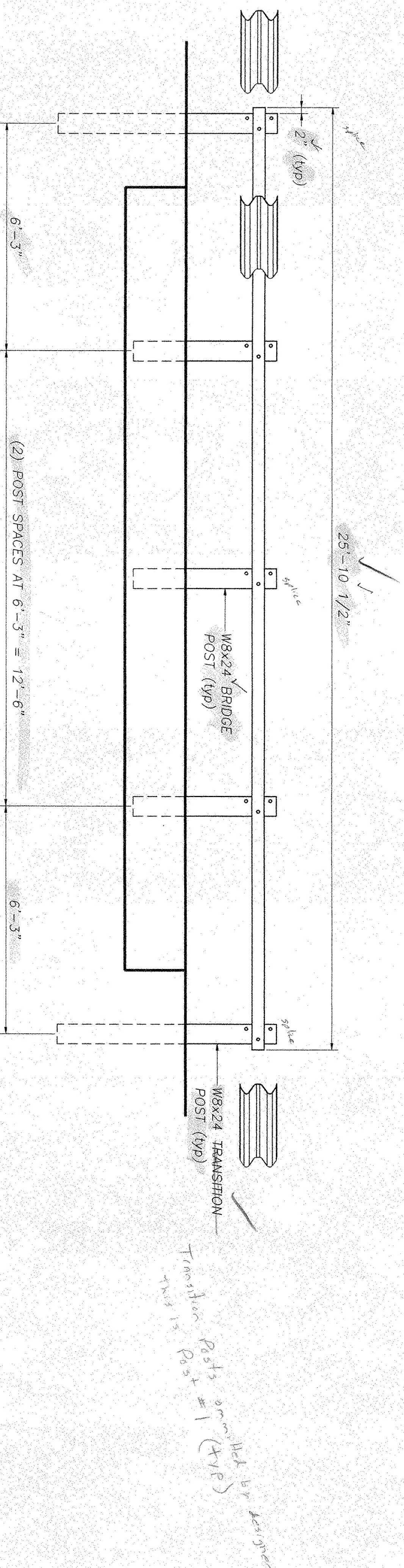


STATION 500+30  
 END STONE FILL TYPE IV  
 END GEOTEXTILE UNDER STONE FILL  
 END GRUBBING MATERIAL  
 END UNCLASSIFIED CHANNEL EXCAVATION



SCALE 1" = 10 FEET

FROM STA. 500+17 TO STA. 500+75  
 PROJECT NAME STANNARD CHAN  
 NO. IH28919  
 SURVEYED BY DE ZI FLANDERS  
 SHEET 21 SHEETS  
 PLOTTED 04/10/89  
 03/89 0211



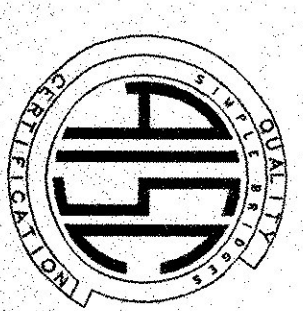
**ELEVATION - NORTH SIDE**  
**FACING FROM CENTERLINE OF ROADWAY**  
**SOUTH ELEVATION SIMILAR**

TOTAL PAY LIMIT ITEM 525.444 (BRIDGE RAILING, HDSB TYPE W) = 50 L.F.

NOTE: STEEL TUBE BLOCKOUTS & PORTIONS OF HDSB RAIL REMOVED FROM THIS VIEW FOR CLARITY

No.	REVISIONS	Date
0	Initial submittal	8/21/01

**HIGHWAY SAFETY CORP.**  
 GLASTONBURY, CT

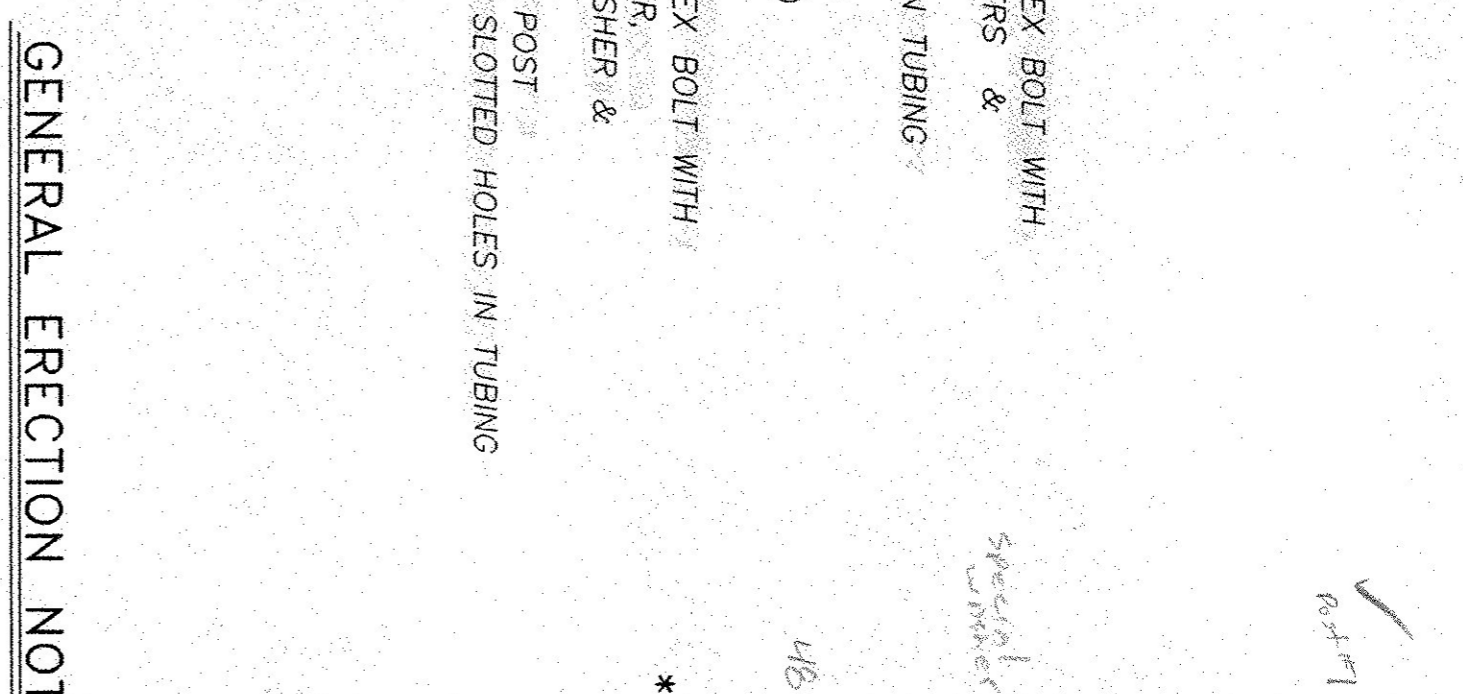
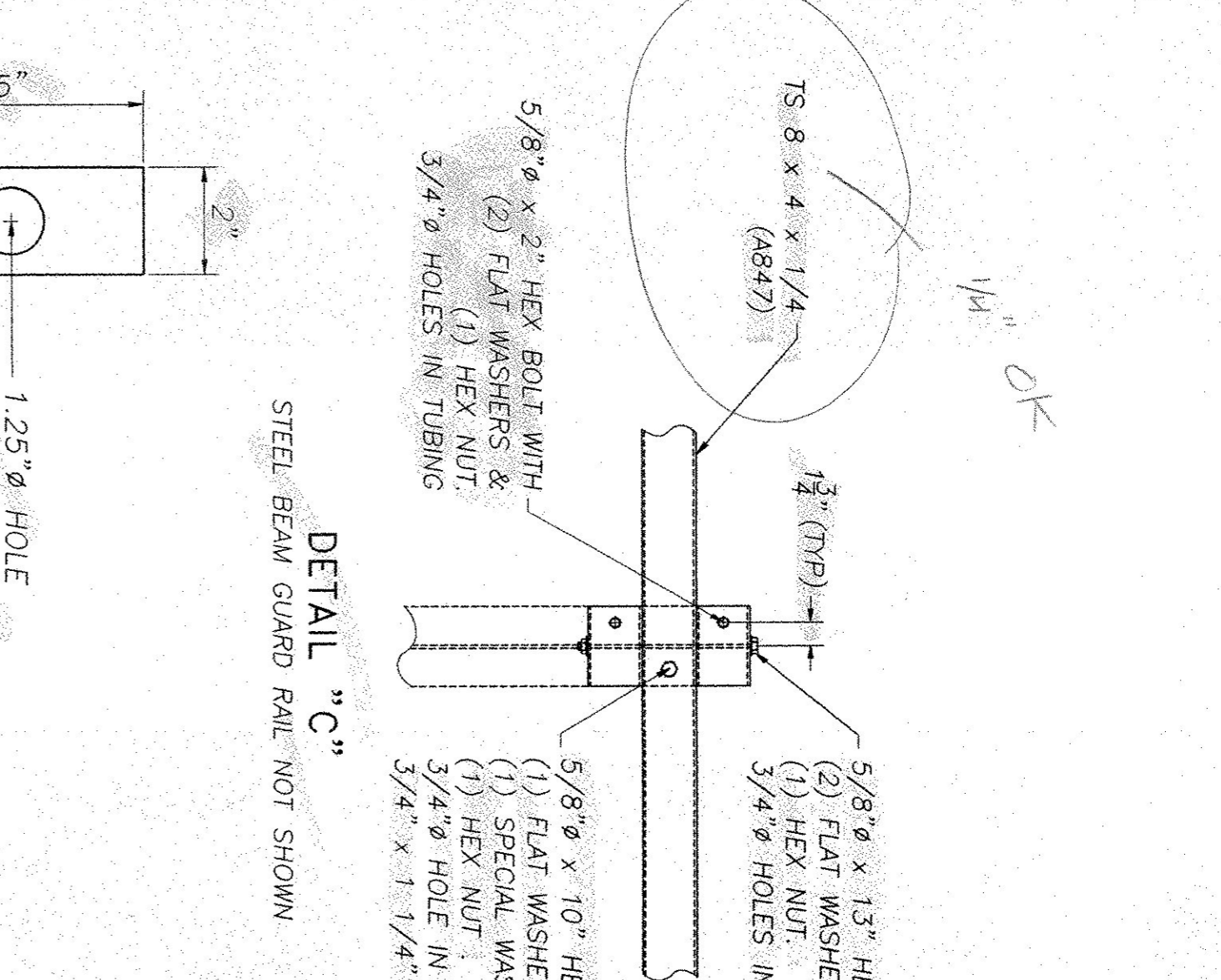
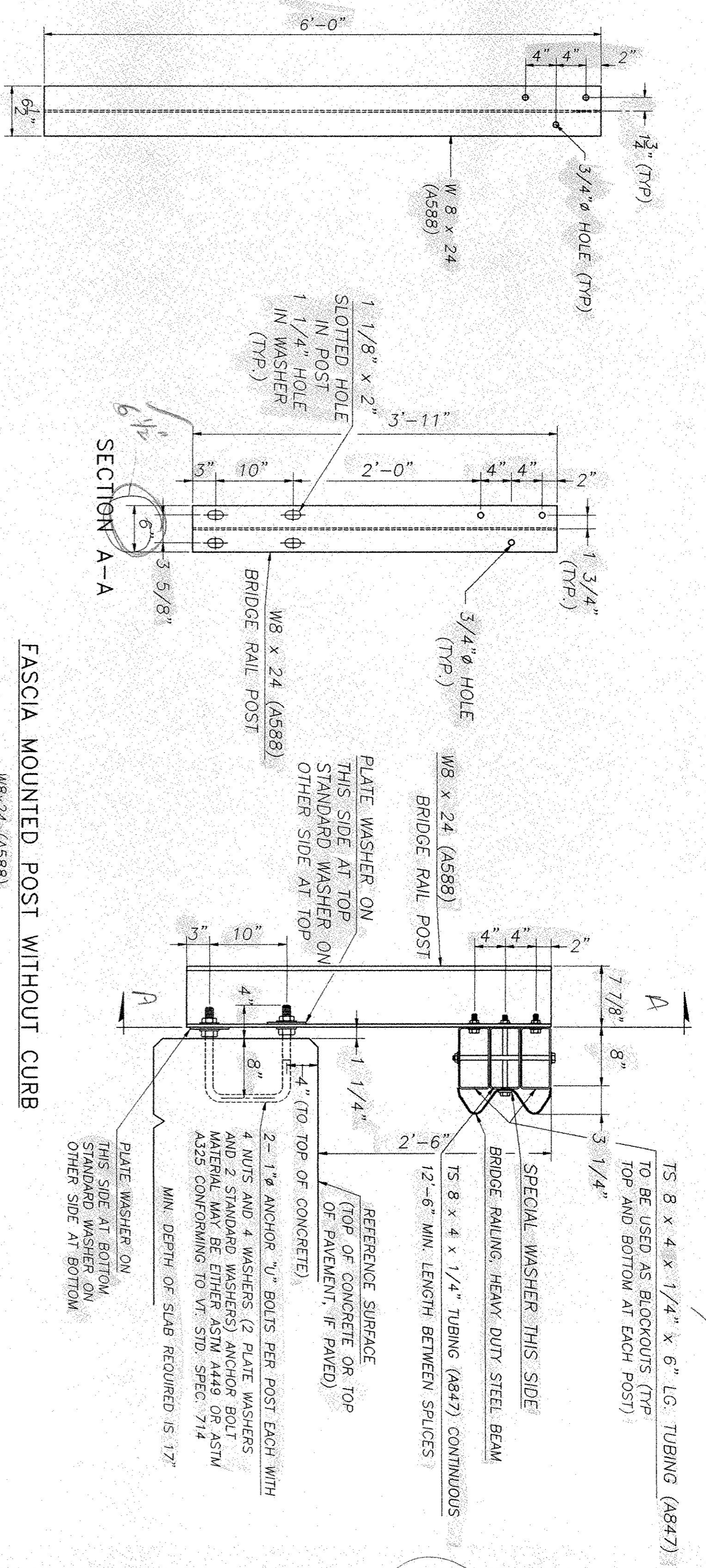


RECEIVED  
 AUG 10 2001  
 APPROVED AS SHOWN  
 DATE 8/21/01  
 BY *[Signature]*

GENERAL CONTRACTOR  
 R.C. CONTRACTORS INC.

ITEM 525.44 BRIDGE RAILING HDSB TYPE IV  
 FASCIA MOUNTED STEEL TUBING WITHOUT CURB  
 TOWN OF STANNARD, VERMONT  
 TH1 OVER STANNARD BROOK - BRIDGE NO. 6  
 PROJECT NO. TH2-8919

DESIGNED BY P. RADICE  
 DATE 8/17/01  
 SCALE 1/2" = 12'  
 HSC REFERENCE NO. 1263  
 SHEET NO. 1 OF 2



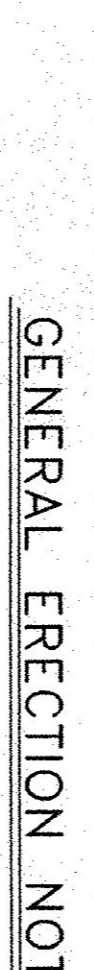
BILL OF MATERIAL		
Mk.	Qty.	Description
6	4	FASCIA MOUNTED POST W8x24 x 3'-11"
4	4	TRANSITION POST W8x24 x 6'-0"
20	1	TUBE BLOCKOUTS TS 8x4x1/4 x 6" LG
4847	1	RAIL TUBE TS 8x4x1/4 x 25'-10 1/2" OAL (LEFT)
4847	1	RAIL TUBE TS 8x4x1/4 x 25'-10 1/2" OAL (RIGHT)
4847	4	10 GA HOSB RAIL 12'-6" / 6'-3"
4847	10	5/8" x 13" HEX BOLT W/ 2 FLAT WASHER & HEX NUT
4847	10	5/8" x 10" HEX BOLT W/ FLAT WASHER & HEX NUT
4847	20	5/8" x 2" HEX BOLT W/ HEX NUT & 2 FLAT WASHERS
4847	10	RECTANGULAR WASHER 3/16" x 1-3/4" x 3"
4847	32	5/8" x 1.28" SPACER BOLT
4847	32	5/8" OAL RECESSED NUT
4847	12	U-SHAPED ANCHOR BOLT - 1" DIA (GALV)
4847	24	ANCHOR PLATE WASHER - 1/4" x 5" x 2" (GALV)
4847	24	1" HEX NUT (GALV)
4847	24	1" ROUND WASHER (SAE) (GALV)

\* - ITEMS MARKED "\*" ARE NOT PROVIDED BY HIGHWAY SAFETY CORPORATION - SHOW FOR REFERENCE ONLY

**GENERAL ERECTION NOTES**

1. Heavy duty steel beam guard rail shall conform to VT specification 732. ASHTO M180 B4.
2. Structural steel tubing shall conform to ASTM A847.
3. Anchor bolts, nuts and washers shall be galvanized in accordance with ASHTO M 232 and shall conform to VT specification 714 unless otherwise noted.
4. Bridge rail posts, special washers, splice bars and plate washers shall conform to ASHTO M 222 / M 222M [ASTM A588] and shall gal be galvanized.
5. All bolts and related hardware shall conform to ASHTO M 164 type 3 bolts.
6. See standard drawing G-1 and G-1d for additional details concerning guard rail.
7. See standard drawing SB-R6-82 for approach rail details and for information relative to schedule 1 and schedule 11. All approach rail shall be heavy duty steel beam guard rail. Also see Std. Dwg. SB-R6-82 for handrail details (except end details) if hand rail is required.
8. All posts shall be set normal to grade.
9. Splices for the steel beam guard rail shall lap in the direction of traffic.
10. See Standard drawing G-1 for details of delineators. A delineator shall be located at every fifth post. Payment shall be subsidiary to other items.
11. A railing joint splice shall be provided at each superstructure expansion joint.
12. All field cut or drilled areas shall be coated with zinc rich paint.
13. For radii less than 950 feet, the steel tubing shall be shop bent to fit the applicable curve.
14. The drop-weight tear test in section 732 shall not apply to the structural tubing on this standard.

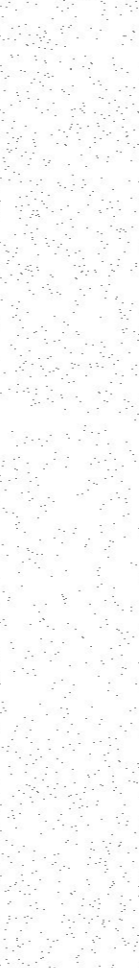
**FASCIA MOUNTED POST WITHOUT CURB**



BILL OF MATERIAL		
Mk.	Qty.	Description
6	4	FASCIA MOUNTED POST W8x24 x 3'-11"
4	4	TRANSITION POST W8x24 x 6'-0"
20	1	TUBE BLOCKOUTS TS 8x4x1/4 x 6" LG
4847	1	RAIL TUBE TS 8x4x1/4 x 25'-10 1/2" OAL (LEFT)
4847	1	RAIL TUBE TS 8x4x1/4 x 25'-10 1/2" OAL (RIGHT)
4847	4	10 GA HOSB RAIL 12'-6" / 6'-3"
4847	10	5/8" x 13" HEX BOLT W/ 2 FLAT WASHER & HEX NUT
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4847	20	5/8" x 2" HEX BOLT W/ HEX NUT & 2 FLAT WASHERS
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4847	32	5/8" x 1.28" SPACER BOLT
4847	32	5/8" OAL RECESSED NUT
4847	12	U-SHAPED ANCHOR BOLT - 1" DIA (GALV)
4847	24	ANCHOR PLATE WASHER - 1/4" x 5" x 2" (GALV)
4847	24	1" HEX NUT (GALV)
4847	24	1" ROUND WASHER (SAE) (GALV)

\* - ITEMS MARKED "\*" ARE NOT PROVIDED BY HIGHWAY SAFETY CORPORATION - SHOW FOR REFERENCE ONLY

**TRANSITION POST**



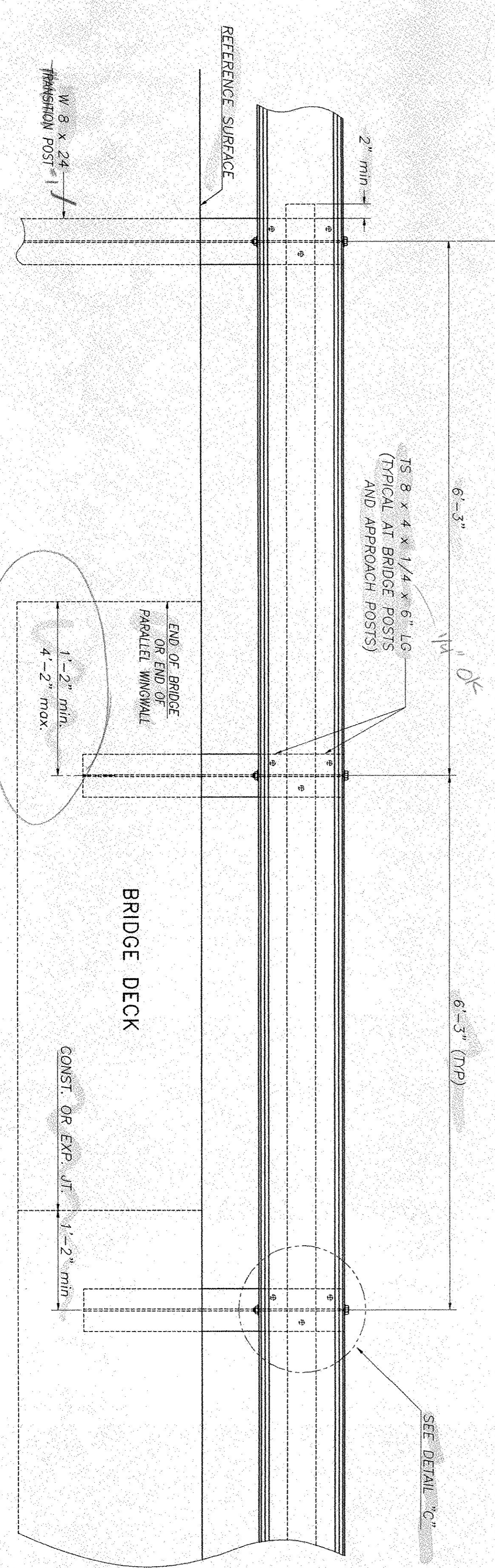
BILL OF MATERIAL		
Mk.	Qty.	Description
6	4	FASCIA MOUNTED POST W8x24 x 3'-11"
4	4	TRANSITION POST W8x24 x 6'-0"
20	1	TUBE BLOCKOUTS TS 8x4x1/4 x 6" LG
4847	1	RAIL TUBE TS 8x4x1/4 x 25'-10 1/2" OAL (LEFT)
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4847	4	10 GA HOSB RAIL 12'-6" / 6'-3"
4847	10	5/8" x 13" HEX BOLT W/ 2 FLAT WASHER & HEX NUT
4847	10	5/8" x 10" HEX BOLT W/ FLAT WASHER & HEX NUT
4847	20	5/8" x 2" HEX BOLT W/ HEX NUT & 2 FLAT WASHERS
4847	10	RECTANGULAR WASHER 3/16" x 1-3/4" x 3"
4847	32	5/8" x 1.28" SPACER BOLT
4847	32	5/8" OAL RECESSED NUT
4847	12	U-SHAPED ANCHOR BOLT - 1" DIA (GALV)
4847	24	ANCHOR PLATE WASHER - 1/4" x 5" x 2" (GALV)
4847	24	1" HEX NUT (GALV)
4847	24	1" ROUND WASHER (SAE) (GALV)

\* - ITEMS MARKED "\*" ARE NOT PROVIDED BY HIGHWAY SAFETY CORPORATION - SHOW FOR REFERENCE ONLY

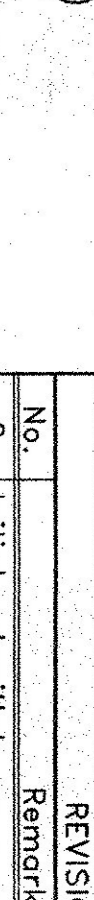
**SPECIAL WASHER DETAIL**



**PAY LIMITS FOR ITEM 525.44 BRIDGE RAILING HEAVY DUTY STEEL BEAM TYPE 4 FASCIA MOUNTED STEEL TUBING**



**RAILING ELEVATION VIEW (SHOWN LOOKING FROM WITHOUT CURB)**



No.	Initial	Submitted	Remarks	Date
0				8/2/01

**RECEIVED**  
 AUG 10 2001  
 ORDER BY: L.L.L. ORDER BY: K.W.H.  
 RESUBMIT: APPROVED AS NOTED  
 BY: DATE: 8/23/01

**HIGHWAY SAFETY CORP.**  
 GLASTONBURY, CT

ITEM 525.44 BRIDGE RAILING HD58 TYPE IV  
 FASCIA MOUNTED STEEL TUBING WITHOUT CURB  
 TOWN OF STANNARD, VERMONT  
 TH1 OVER STANNARD BROOK - BRIDGE NO. 6  
 PROJECT NO. TH2-8919  
 R.C. CONTRACTORS INC.  
 F.R. LAFAYETTE, INC.

DESIGNED BY: P. Rodice  
 DATE: 8/1/01  
 SCALE: NONE  
 REFERENCE NO.: 1263  
 SHEET NO.: 2 OF 2