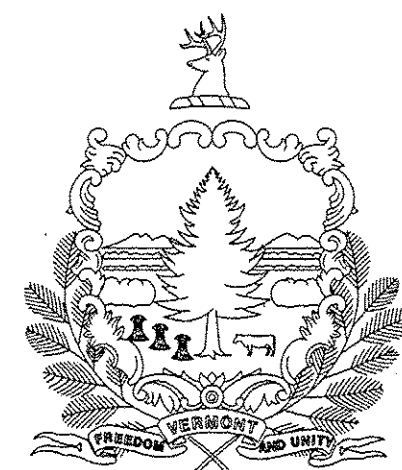
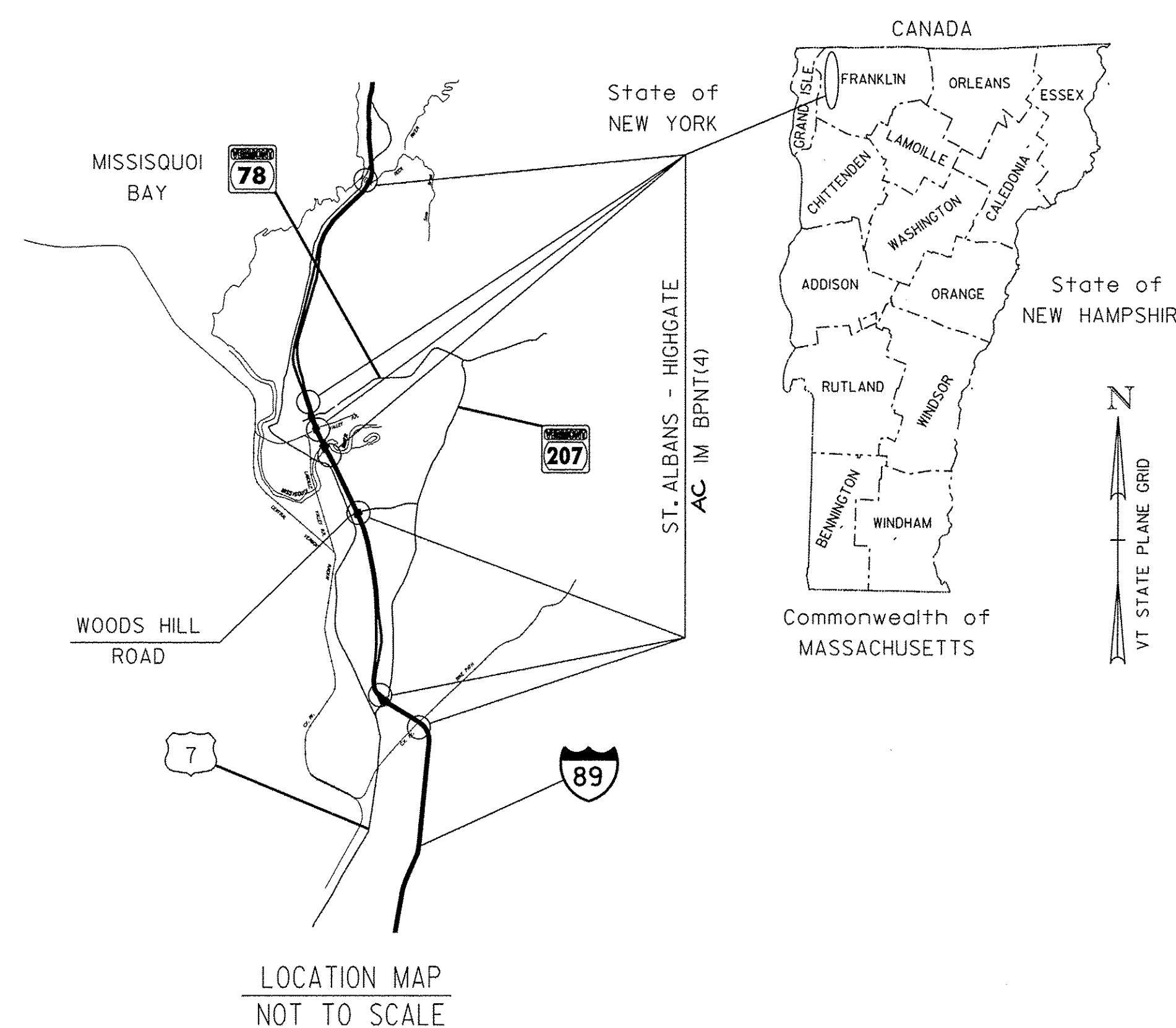


STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT TOWNS OF ST. ALBANS, SWANTON, AND HIGHGATE COUNTY OF FRANKLIN PROJECT ACIM BPNT(4)



INDEX OF SHEETS

- 1. TITLE SHEET
- 2.- 5. QUANTITY SHEETS
- 6.- 10. TRAFFIC CONTROL SHEETS
- 10A. PROJECT NOTES AND DETAILS
- 11.- 13. REFERENCE PLANS - BRIDGES 92 N&S
- 14.- 16. REFERENCE PLANS - BRIDGES 93 N&S
- 17.- 19. REFERENCE PLANS - BRIDGES 94 N&S
- 20.- 22. REFERENCE PLANS - BRIDGES 96 N&S
- 23.- 25. REFERENCE PLANS - BRIDGES 97 N&S
- 26.- 28. REFERENCE PLANS - BRIDGES 98 N&S
- 29.- 32. REFERENCE PLANS - BRIDGES 100 N&S

VAOT STANDARD SHEETS

- E-100 01/02/04
- E-101 05/30/03
- E-102 06/30/03
- E-102A 05/01/04
- E-103 03/01/04
- E-106 03/01/04
- E-107 06/30/03
- E-107A 06/08/09
- E-110 08/08/95
- E-120 08/08/95
- E-121 08/08/95

ROUTE NO.: INTERSTATE 89

BRIDGE NO.: 92N&S, 93N&S, 94N&S, 96N&S, 97N&S, 98N&S, AND 100N&S

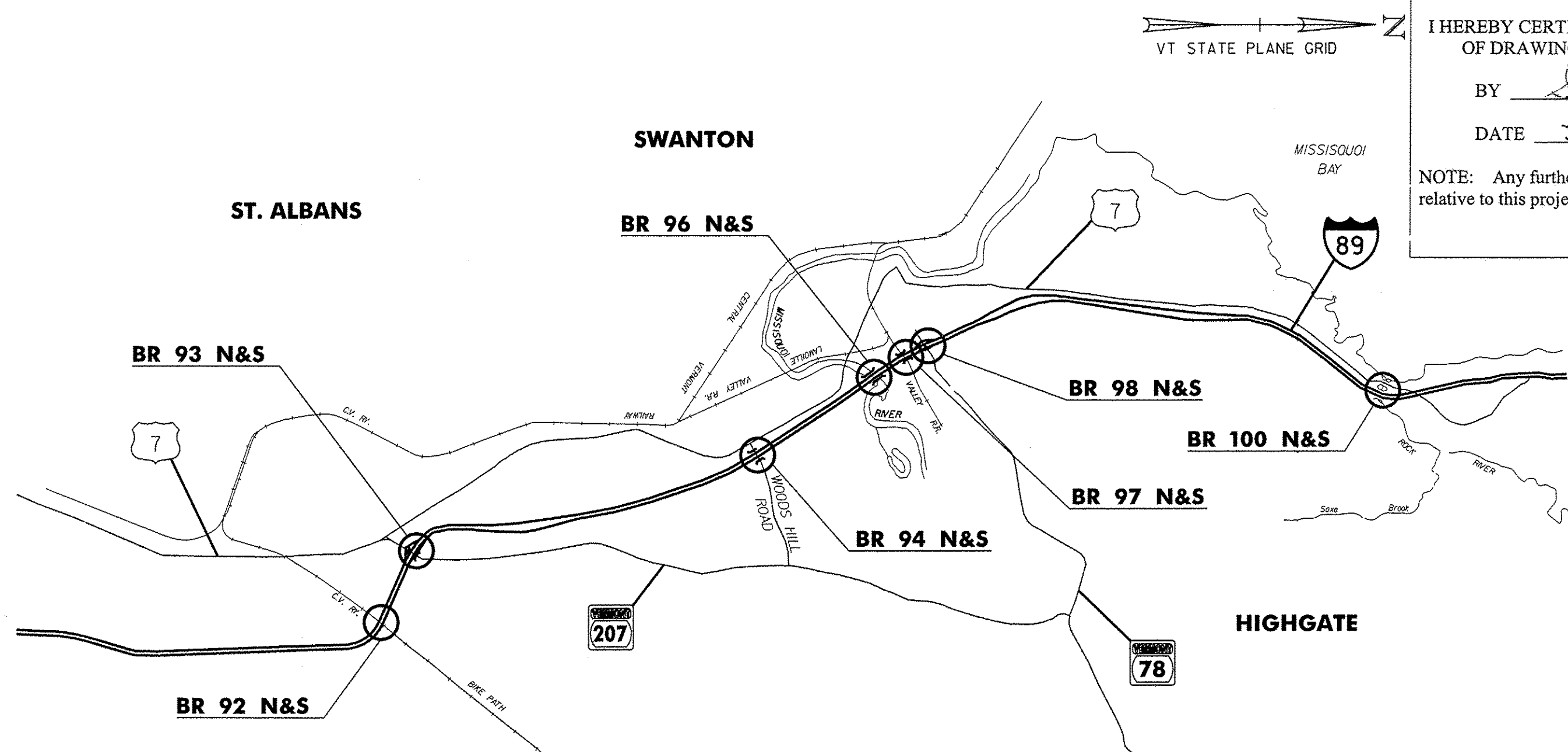
PROJECT LOCATION: ST. ALBANS - BR 92N&S OVER BIKE PATH (C.V. RY.) (MM 116.772)
 ST. ALBANS - BR 93N&S OVER VT 207 (SA4) (MM 117.633)
 SWANTON - BR 94N&S OVER TH NO. 3 (WOODS HILL ROAD) (SA3) (MM 121.338)
 SWANTON - BR 96N&S OVER MISSISQUOI RIVER (MM 122.794)
 SWANTON - BR 97N&S OVER LV RR (ST. J. & L.C. RR) (MM 123.121)
 SWANTON - BR 98N&S OVER VT 78 (MM123.368)
 HIGHGATE - BR 100N&S OVER ROCK RIVER (MM 128.372)

PROJECT DESCRIPTION: THIS PROJECT INVOLVES CLEANING AND REPAINTING THE EXISTING STEEL SUPERSTRUCTURE MEMBERS AND MINOR RELATED WORK.

SURVEYED BY :	N/A
SURVEYED DATE :	N/A
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

CONVENTIONAL SYMBOLS

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

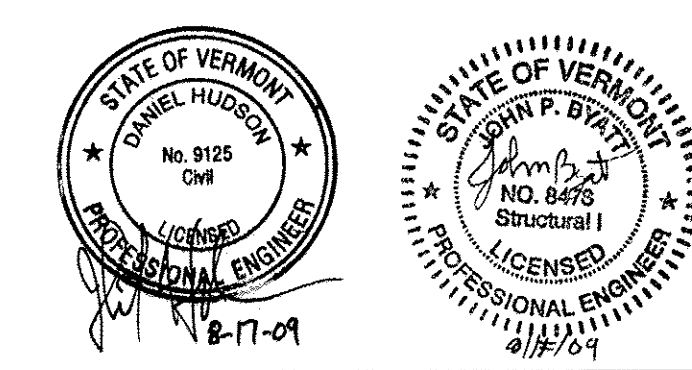


RECORD PLANS		
CONTRACTOR:	HERCULES PAINTING COMPANY, INC. - NEW CASTLE, PA.	
RESIDENT ENGINEER:	SCOTT WHEATLEY	
CONSTRUCTION BEGAN:	APRIL 12, 2010	
CONSTRUCTION COMPLETE:	NOVEMBER 21, 2010	
RECORD PLANS BY:	SCOTT WHEATLEY & AMOS KEMPTON	
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.		
BY:		RESIDENT ENGINEER
DATE:	JULY 28, 2011	
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.		

I-89 BRIDGE NO.	2009 AADTs	
	NORTHBOUND	SOUTHBOUND
92	6200	6200
93	4200	4200
94	4800	4800
96	4800	4800
97	4800	4800
98	1300	1000
100	1600	1600

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



PLANS PREPARED BY:

540 Commercial Street Manchester, NH 03101
 (603) 668-8223 • Fax: (603) 668-8802
 email: clc@clcengineers.com • www.clcengineers.com
 Maine • New Hampshire • Vermont

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED	DATE 7-9-09
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	DATE 8-20-09
PROJECT MANAGER : JOHN WEAVER	
PROJECT NAME : ST. ALBANS - HIGHGATE	
PROJECT NUMBER : ACIM BPNT(4)	
SHEET 1 OF 32 SHEETS	

082009

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	EROSION CONTROL	NORTHBOUND BRIDGES	FULL C.E. ITEMS	SOUTHBOUND BRIDGES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			
								170			170		HR	TRUCK-MOUNTED ATTENUATOR	608.45	EST.			
								400		400	800		LF	REMOVING AND RESETTING FENCE	620.50	EST.			
								1910		2000	3910		LF	TEMPORARY TRAFFIC BARRIER	621.90	EST.			
								1033		1057	2090		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
								260		310	570		HR	FLAGGERS	630.15	EST.			
									1		1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
									1		1		LS	TESTING EQUIPMENT, PROTECTIVE COATINGS	631.18	-			
									1		1		LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-			
						1					1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 100N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 100S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 92N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 92S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 93N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 93S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 94N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 94S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 96N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 96S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 97N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 97S)	641.10	-			
								1			1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 98N)	641.10	-			
										1	1		LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 98S)	641.10	-			
								6		5	11		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
								2		2	4		EACH	PORTABLE ARROW BOARD	641.16	-			
								3825		3825	7650		LF	TEMPORARY 6 INCH WHITE LINE, TYPE II TAPE	646.621	EST.			
								3610		3610	7220		LF	TEMPORARY 6 INCH YELLOW LINE, TYPE II TAPE	646.631	EST.			
								25		25	50		LF	TEMPORARY 12 INCH WHITE LINE, TYPE II TAPE	646.661	EST.			
								1375		1375	2750		SF	PAVEMENT MARKING MASK	646.86	EST.			
							140				140		SY	GEOTEXTILE FOR SILT FENCE	649.51	EST.			
							140				140		SY	TEMPORARY EROSION MATTING	653.20	EST.			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 100N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 100S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 92N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 92S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 93N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 93S)	900.645	-			

PROJECT NAME: **St. Albans - Highgate**
 PROJECT NUMBER: **IM BPNT(4)**
 FILE NAME: 02-QSS.dgn PLOT DATE: 08/16/2009
 PROJECT LEADER: JOHN WEAVER DRAWN BY: SRB
 DESIGNED BY: SRB CHECKED BY: JPB
 QUANTITY SHEET #1 SHEET 2 OF 32

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	EROSION CONTROL	NORTHBOUND BRIDGES	FULL C.E. ITEMS	SOUTHBOUND BRIDGES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
								1			1		LS	RESIDUES) (H89-BR. NO. 93S)					
													LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 94N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 94S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 96N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 96S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 97N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 97S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 98N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (H89-BR. NO. 98S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 100N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 100S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 92N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 92S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 93N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 93S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 94N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 94S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 96N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 96S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 97N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 97S)	900.645	-			
								1			1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 98N)	900.645	-			
										1	1		LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (H89-BR. NO. 98S)	900.645	-			

PROJECT NAME: **St. Albans - Highgate**
 PROJECT NUMBER: **IM BPNT(4)**
 FILE NAME: 02-QSS.dgn PLOT DATE: 08/16/2009
 PROJECT LEADER: JOHN WEAVER DRAWN BY: SRB
 DESIGNED BY: SRB CHECKED BY: JPB
 QUANTITY SHEET #2 SHEET 3 OF 32

BRIDGE QUANTITY SHEET 1

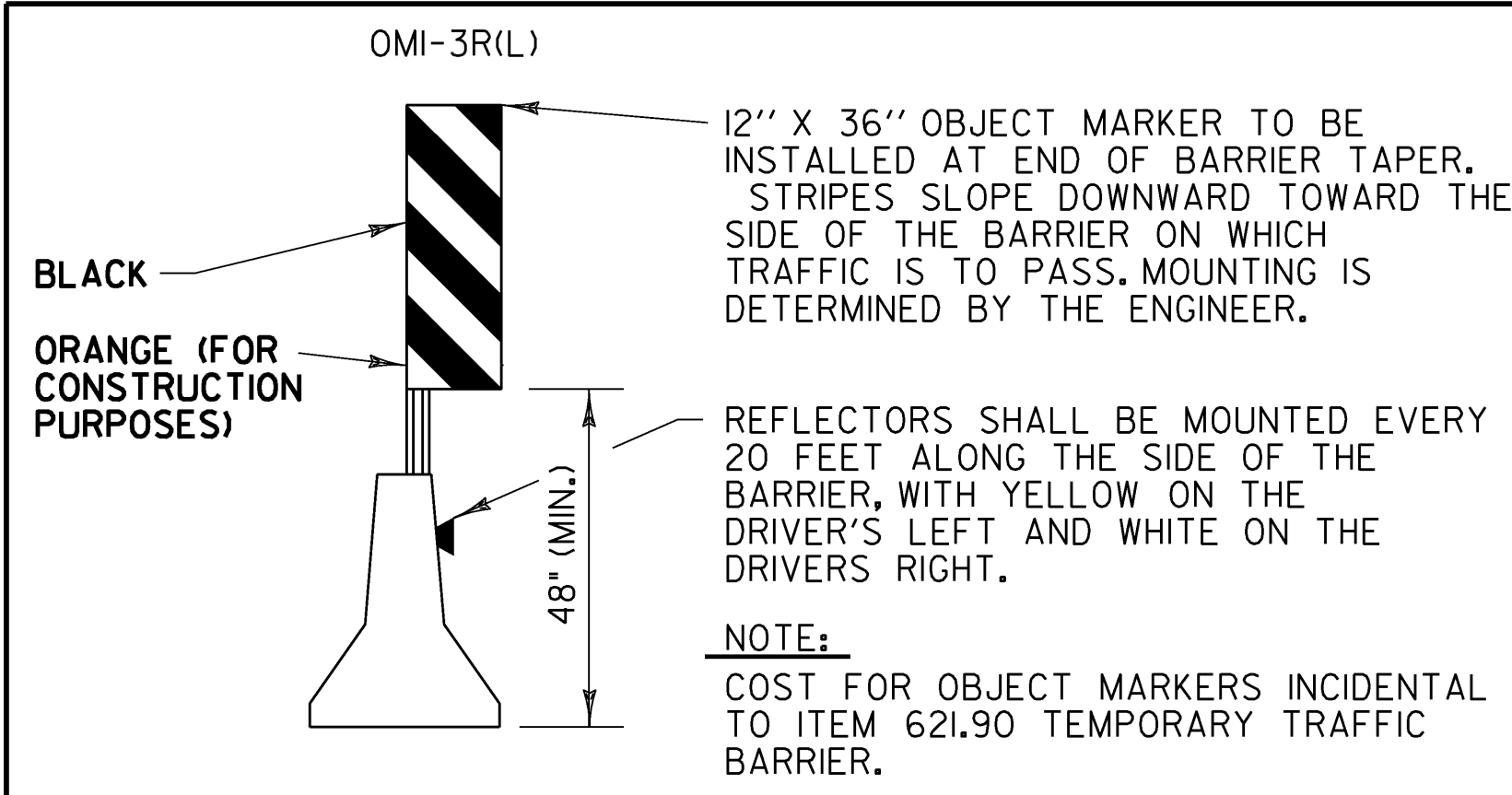
SUMMARY OF BRIDGE QUANTITIES										TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
			BRIDGE NO. 92N	BRIDGE NO. 93N	BRIDGE NO. 94N	BRIDGE NO. 96N	BRIDGE NO. 97N	BRIDGE NO. 98N	BRIDGE NO. 100N	BRIDGE TOTAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
				170						170	HR	TRUCK-MOUNTED ATTENUATOR	608.45				
			200		200					400	LF	REMOVING AND RESETTING FENCE	620.50				
				285	115	685		215	610	1910	LF	TEMPORARY TRAFFIC BARRIER	621.90				
				125	133	418		132	225	1033	HR	UNIFORMED TRAFFIC OFFICERS	630.10				
					260					260	HR	FLAGGERS	630.15				
									1	1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 100N)	641.10				
			1							1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 92N)	641.10				
				1						1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 93N)	641.10				
					1					1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 94N)	641.10				
						1				1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 96N)	641.10				
							1			1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 97N)	641.10				
								1		1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 98N)	641.10				
				2	1	1		1	1	6	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
						1			1	2	EACH	PORTABLE ARROW BOARD	641.16				
				975		1425			1425	3825	LF	TEMPORARY 6 INCH WHITE LINE, TYPE II TAPE	646.621				
				760		1425			1425	3610	LF	TEMPORARY 6 INCH YELLOW LINE, TYPE II TAPE	646.631				
				25						25	LF	TEMPORARY 12 INCH WHITE LINE, TYPE II TAPE	646.661				
				1065		155			155	1375	SF	PAVEMENT MARKING MASK	646.86				
									1	1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 100N)	900.645				
			1							1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 92N)	900.645				
				1						1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 93N)	900.645				
					1					1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 94N)	900.645				
						1				1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 96N)	900.645				
							1			1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 97N)	900.645				
								1		1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 98N)	900.645				
									1	1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 100N)	900.645				
			1							1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 92N)	900.645				
				1						1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 93N)	900.645				
					1					1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 94N)	900.645				
						1				1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 96N)	900.645				
							1			1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 97N)	900.645				
								1		1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 98N)	900.645				

PROJECT NAME: **St. Albans - Highgate**
 PROJECT NUMBER: **IM BPNT(4)**
 FILE NAME: 02-QSS.dgn PLOT DATE: 08/16/2009
 PROJECT LEADER: JOHN WEAVER DRAWN BY: SRB
 DESIGNED BY: SRB CHECKED BY: JPB
 BRIDGE QUANTITY SHEET #1 SHEET 4 OF 32

BRIDGE QUANTITY SHEET 2

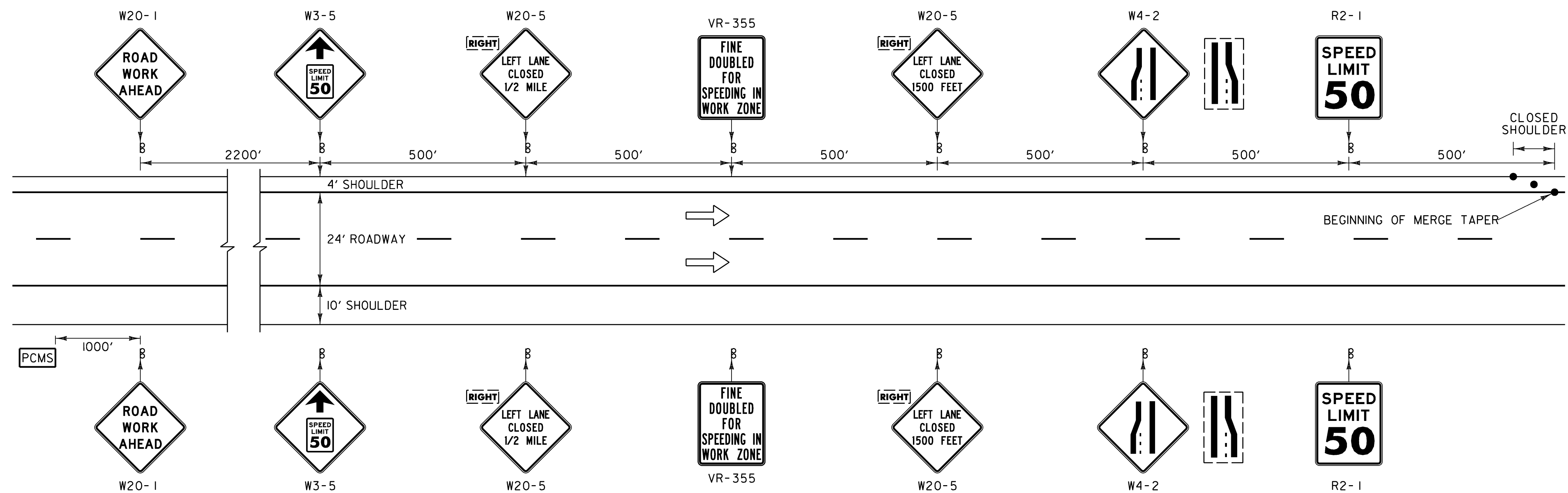
SUMMARY OF BRIDGE QUANTITIES										TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
			BRIDGE NO. 92S	BRIDGE NO. 93S	BRIDGE NO. 94S	BRIDGE NO. 96S	BRIDGE NO. 97S	BRIDGE NO. 98S	BRIDGE NO. 100S	BRIDGE TOTAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
			200		200					400	LF	REMOVING AND RESETTING FENCE	620.50				
				285	115	615		215	770	2000	LF	TEMPORARY TRAFFIC BARRIER	621.90				
				125	157	417		133	225	1057	HR	UNIFORMED TRAFFIC OFFICERS	630.10				
					310					310	HR	FLAGGERS	630.15				
									1	1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 100S)	641.10				
		1								1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 92S)	641.10				
			1							1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 93S)	641.10				
					1					1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 94S)	641.10				
						1				1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 96S)	641.10				
							1			1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 97S)	641.10				
								1		1	LS	TRAFFIC CONTROL (I-89-BRIDGE NO. 98S)	641.10				
				1	1	1		1	1	5	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
						1			1	2	EACH	PORTABLE ARROW BOARD	641.16				
				975		1425			1425	3825	LF	TEMPORARY 6 INCH WHITE LINE, TYPE II TAPE	646.621				
				760		1425			1425	3610	LF	TEMPORARY 6 INCH YELLOW LINE, TYPE II TAPE	646.631				
				25						25	LF	TEMPORARY 12 INCH WHITE LINE, TYPE II TAPE	646.661				
				1065		155			155	1375	SF	PAVEMENT MARKING MASK	646.86				
									1	1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 100S)	900.645				
		1								1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 92S)	900.645				
			1							1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 93S)	900.645				
					1					1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 94S)	900.645				
						1				1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 96S)	900.645				
							1			1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 97S)	900.645				
								1		1	LS	SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES) (I-89-BR. NO. 98S)	900.645				
									1	1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 100S)	900.645				
		1								1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 92S)	900.645				
				1						1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 93S)	900.645				
					1					1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 94S)	900.645				
						1				1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 96S)	900.645				
							1			1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 97S)	900.645				
								1		1	LS	SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL) (I-89-BR. NO. 98S)	900.645				

PROJECT NAME: **St. Albans - Highgate**
 PROJECT NUMBER: **IM BPNT(4)**
 FILE NAME: 02-QSS.dgn PLOT DATE: 08/16/2009
 PROJECT LEADER: JOHN WEAVER DRAWN BY: SRB
 DESIGNED BY: SRB CHECKED BY: JPB
 BRIDGE QUANTITY SHEET #2 SHEET 5 OF 32

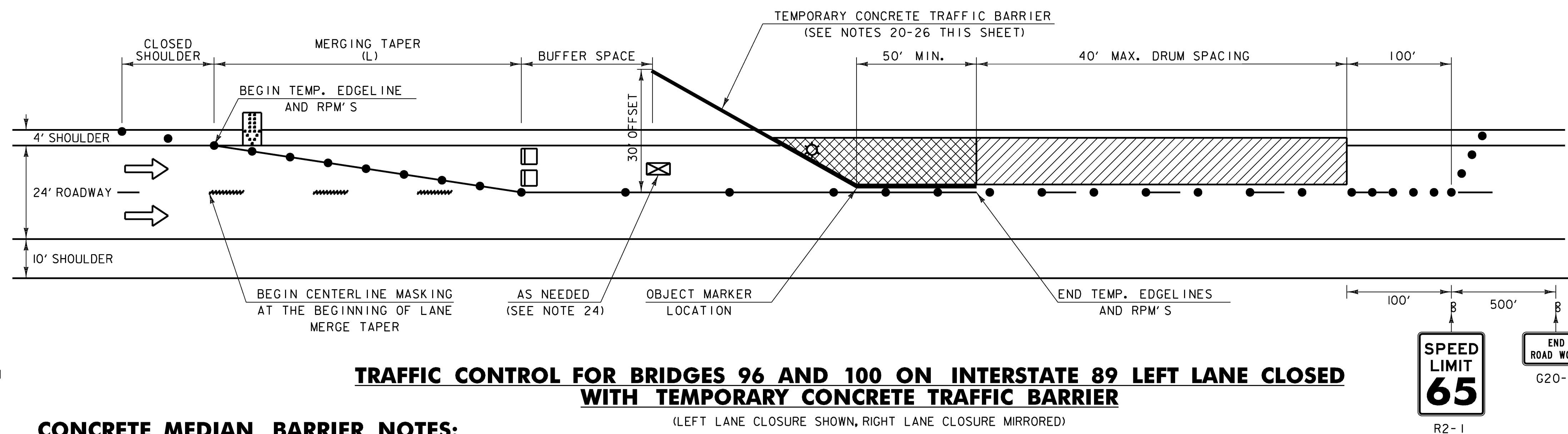


TRAFFIC CONTROL NOTES:

1. THE LEFT LANE CLOSURE IS SHOWN. THE RIGHT LANE APPROACH SIGNING IS SIMILAR. THE RIGHT LANE CLOSURE SHOULD BE MIRRORED.
2. THE EXISTING SPEED LIMIT IS 65 MPH ON I-89. THE SPEED LIMIT WILL BE REDUCED TO 50 MPH ON I-89 IN THE WORK ZONE FOR THIS PROJECT. ANY EXISTING SPEED LIMIT SIGNS WITHIN THE SPEED REDUCTION AREA SHALL BE COMPLETELY COVERED. THE SPEEDS SHALL REMAIN AS POSTED ON VT 207, VT 78, AND WOODS HILL ROAD.
3. SIGNS SHALL BE INSTALLED SO AS NOT TO OBSTRUCT EXISTING SIGNS.
4. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE "STANDARD HIGHWAY SIGNS" BOOK (SHS) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).
5. SOLID SUBSTRATE CONSTRUCTION SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING AASHTO M 268 REQUIREMENTS, UNLESS OTHERWISE NOTED.
6. ROLL UP SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING AASHTO M 268.
7. SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES. DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF THE WORK, EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER.
8. FIXED SIGNS SHALL BE SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST SEVEN FEET ABOVE THE EDGE OF PAVEMENT. THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST SIX FEET OUTSIDE THE SHOULDER POINT OR FOUR FEET OUTSIDE GUARDRAIL.
9. PORTABLE SIGNS SHALL BE PLACED ON THE EDGE OF ROADWAY AND A ONE FOOT MINIMUM ABOVE TRAVELED WAY. ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED. WHEN PLACED BEHIND GUARDRAIL, THE BOTTOM OF THE SIGN FACE SHALL BE ABOVE THE TOP OF THE GUARDRAIL.
10. WHERE SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARDRAIL OR OTHER APPROVED TRAFFIC BARRIERS, ALL SIGN STANDS AND POST INSTALLATIONS SHALL BE "NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM" (NCHRP) REPORT 350 COMPLIANT. NO SIGN POSTS SHALL EXTEND OVER THE TOP OF THE SIGN INSTALLED ON SAID POSTS. WHEN ANCHORS ARE INSTALLED STUB SHALL NOT BE GREATER THAN FOUR INCHES ABOVE EXISTING GROUND.
11. THE CONTRACTOR SHALL HAVE SIGNS FOR CLOSURE OF RIGHT AND LEFT LANES ON PROJECT BEFORE WORK COMMENCES.
12. THE NUMBER OF CHANNELIZING DEVICES, TYPE THREE BARRICADE AND OTHER TRAFFIC CONTROL DEVICES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED ARE TO BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR, CURVE, ETC.). WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES.
13. PLACE LAST CHANNELIZING DEVICE 100 FEET BEYOND THE ANTICIPATED WORK ZONE TERMINAL POINT EACH DAY AND THEN START THE END TAPER. THE END TAPER SHALL BE CONSTRUCTED OF 5 ADDITIONAL RETROREFLECTIVE DRUMS SPACED AT 10 FEET ON CENTER.
14. THE ARROW BOARD SHALL BE PLACED ON THE SHOULDER OF THE ROADWAY, OR IF PRACTICAL FURTHER FROM THE TRAVELED LANE AT THE END OF THE SHOULDER TAPER.
15. THE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED AT THE DISCRETION OF THE ENGINEER. THE PCMS SHALL BE USED IN ACCORDANCE WITH SECTION 6F.55 OF THE MUTCD. THE PCMS SHALL READ "LEFT (OR RIGHT) LANE CLOSED AHEAD, PLEASE MERGE EARLY".
16. TRAVEL LANE SHALL BE 12 FEET WIDE.
17. THE CONTRACTOR SHALL REDUCE TRAFFIC TO ONE LANE DURING WORKING HOURS IN ACCORDANCE WITH THIS SHEET. ALL EQUIPMENT SHALL BE MOVED TO A LOCATION OFF PAVED SHOULDERS DURING NON-WORK PERIODS, AND PROTECTED BY BARRELS OR CONES, UNLESS BARRIER IS USED.
18. TRAFFIC CONTROL PLANS HAVE NOT BEEN PROVIDED FOR BRIDGES 92 (NORTH & SOUTH) AND 97 (NORTH & SOUTH). BOTH BRIDGES CROSS RECREATIONAL TRAILS AND ALL WORK SHALL TAKE PLACE FROM UNDERNEATH. DURING CONSTRUCTION, TRAIL TRAFFIC MUST BE MAINTAINED IN ACCORDANCE WITH MUTCD, AASHTO, VOSH, AND ADA REQUIREMENTS. IF WORK IS TO BE PERFORMED FROM THE TOP OF THE BRIDGE, LANE CLOSURES AND SIGNING SHALL CONFORM WITH THIS SHEET.
19. ALL TRAFFIC CONTROL EQUIPMENT SHOULD BE USED AND SET UP IN A MANNER TO ACCOMMODATE TRUCK TURNING TRAFFIC.



CONSTRUCTION APPROACH SIGNING FOR BRIDGES 96 AND 100 ON INTERSTATE 89 LEFT LANE CLOSED



TRAFFIC CONTROL FOR BRIDGES 96 AND 100 ON INTERSTATE 89 LEFT LANE CLOSED WITH TEMPORARY CONCRETE TRAFFIC BARRIER

CONCRETE MEDIAN BARRIER NOTES:

20. THE EXISTING TRAVEL LANE WIDTH SHOULD BE MAINTAINED IF POSSIBLE.
21. TEMPORARY TAPE EDGELINES SHALL BE APPLIED AND SHALL MAINTAIN A ONE FOOT MINIMUM DISTANCE FROM THE BARRIER WITH TWO FEET BEING DESIRABLE.
22. LINE STRIPING TARGETS (LST'S) SHALL BE PLACED TO THE OUTSIDE OF THE TEMPORARY TAPE AT 20 FOOT SPACING.
23. PROVIDE A MINIMUM TAPER RATE AS SHOWN IN THE TABLE THIS SHEET, WITH A MINIMUM OF 50 FEET OF TANGENT SECTION PRIOR TO THE BEGINNING OF THE WORK ZONE.
24. THE END OF THE BARRIER FACING APPROACHING TRAFFIC SHALL MEET THE FOLLOWING REQUIREMENTS.
 - A. WHEN NO GUARDRAIL IS PRESENT, A 30 FOOT OFFSET SHALL BE USED FROM THE EDGE OF TRAVELED WAY. IF A 30' OFFSET IS NOT ATTAINABLE, THEN AN ENERGY ABSORPTION ATTENUATOR SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 621 (COST INCIDENTAL TO ITEM 621.90 TEMPORARY TRAFFIC BARRIER).
 - B. IF GUARDRAIL IS PRESENT, THEN TEMPORARY CONCRETE TRAFFIC BARRIER SHALL BE CONNECTED TO EXISTING GUARDRAIL (COST INCIDENTAL TO ITEM 621.90 TEMPORARY TRAFFIC BARRIER) (COSTS FOR DISMANTLING BARRIER CONNECTION AND RESTORING EXISTING BARRIER TO ORIGINAL CONFIGURATION SHALL BE INCIDENTAL TO ITEM 621.90 TEMPORARY TRAFFIC BARRIER.)
25. ALL EQUIPMENT SHALL BE PARKED BEHIND TEMPORARY CONCRETE TRAFFIC BARRIERS AT NIGHT AND ON WEEKENDS WHEN NOT IN USE.
26. RETROREFLECTIVE PLASTIC DRUM SPACING SHALL BE 40 FOOT MAX. BETWEEN TEMPORARY CONCRETE TRAFFIC BARRIER AND END OF WORK ZONE.

LEGEND

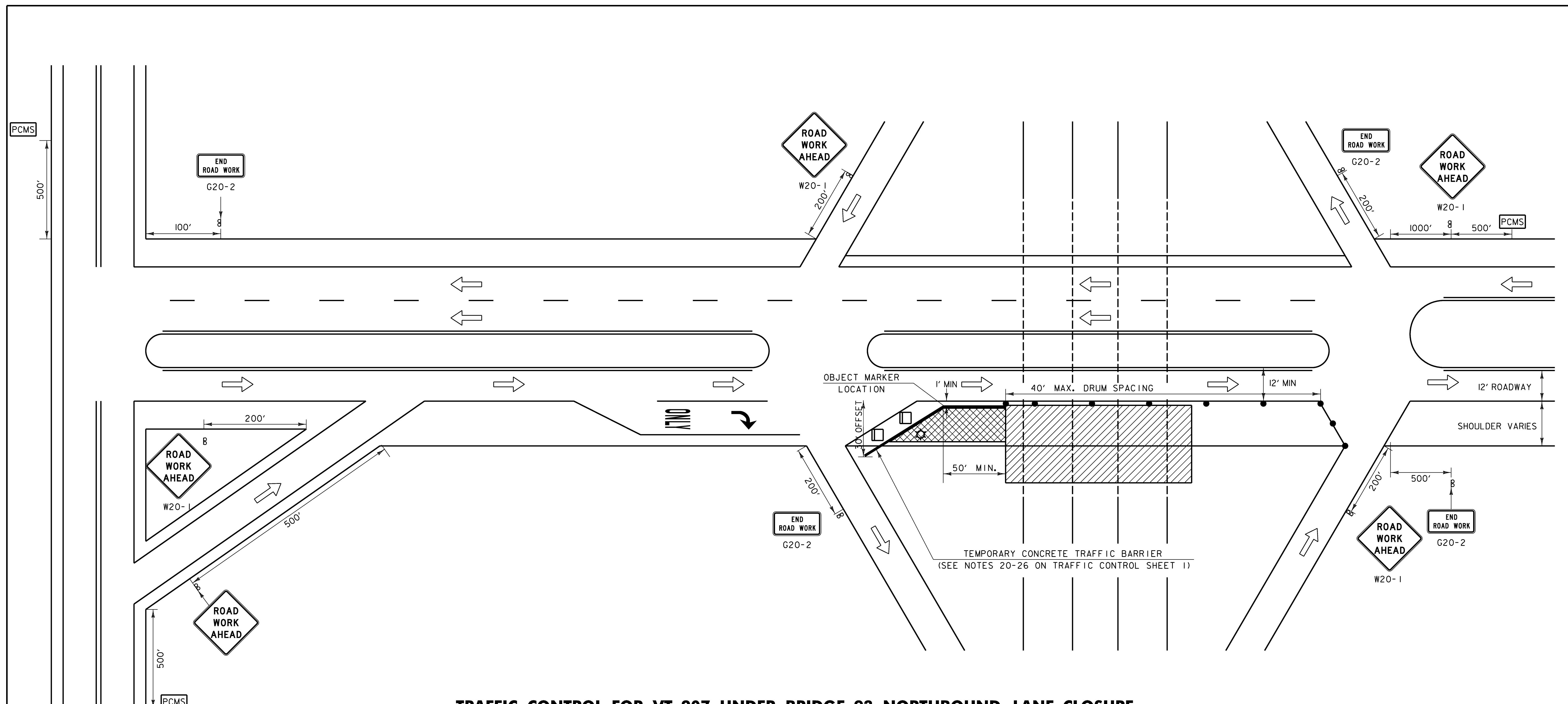
- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- PORTABLE ARROW BOARD
- LIGHTING
- TYPE III BARRICADE
- WORK AREA
- TRUCK/TRAILER MOUNTED ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 15)
- CONSTRUCTION STAGING/ STORAGE AREA (SEE NOTE 25)

POSTED SPEED (MPH)	TAPER LENGTHS (FT)		TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤40	90	320	160	1:9	305	40	80
45	150	540	270	1:9	360	45	90
50	170	600	300	1:11	425	50	100
55	185	660	330	1:13	495	55	110
60	200	720	360	1:13	570	60	120
65	215	780	390	1:13	645	65	130

TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:
 $L = WS$ FOR POSTED SPEEDS OF 45 MPH OR GREATER
 $L = WS^2/60$ FOR POSTED SPEEDS OF 40 MPH OR LESS

L = MINIMUM LENGTH OF TAPER
 W = WIDTH OF OFFSET IN FEET. (TYPICAL)
 S = POSTED SPEED IN MPH

PROJECT NAME: ST. ALBANS - HIGHGATE
 PROJECT NUMBER: IM BPNT(4)
 FILE NAME: TCP BR 96 & 100.dgn
 PROJECT LEADER: JPB
 DESIGNED BY: JJB
 PLOT DATE: 8/17/2009
 DRAWN BY: NCF/JJB
 CHECKED BY: DH
TRAFFIC CONTROL SHEET 1
 SHEET 6 OF 32



**TRAFFIC CONTROL FOR VT 207 UNDER BRIDGE 93 NORTHBOUND LANE CLOSURE
WITH TEMPORARY CONCRETE TRAFFIC BARRIER**

LEGEND

- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- PORTABLE ARROW BOARD
- TYPE III BARRICADE
- LIGHTING
- WORK AREA
- TRUCK/TRAILER MOUNTED ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 15 ON TRAFFIC CONTROL SHEET 1)
- CONSTRUCTION STAGING/ STORAGE AREA (SEE NOTE 25 ON TRAFFIC CONTROL SHEET 1)

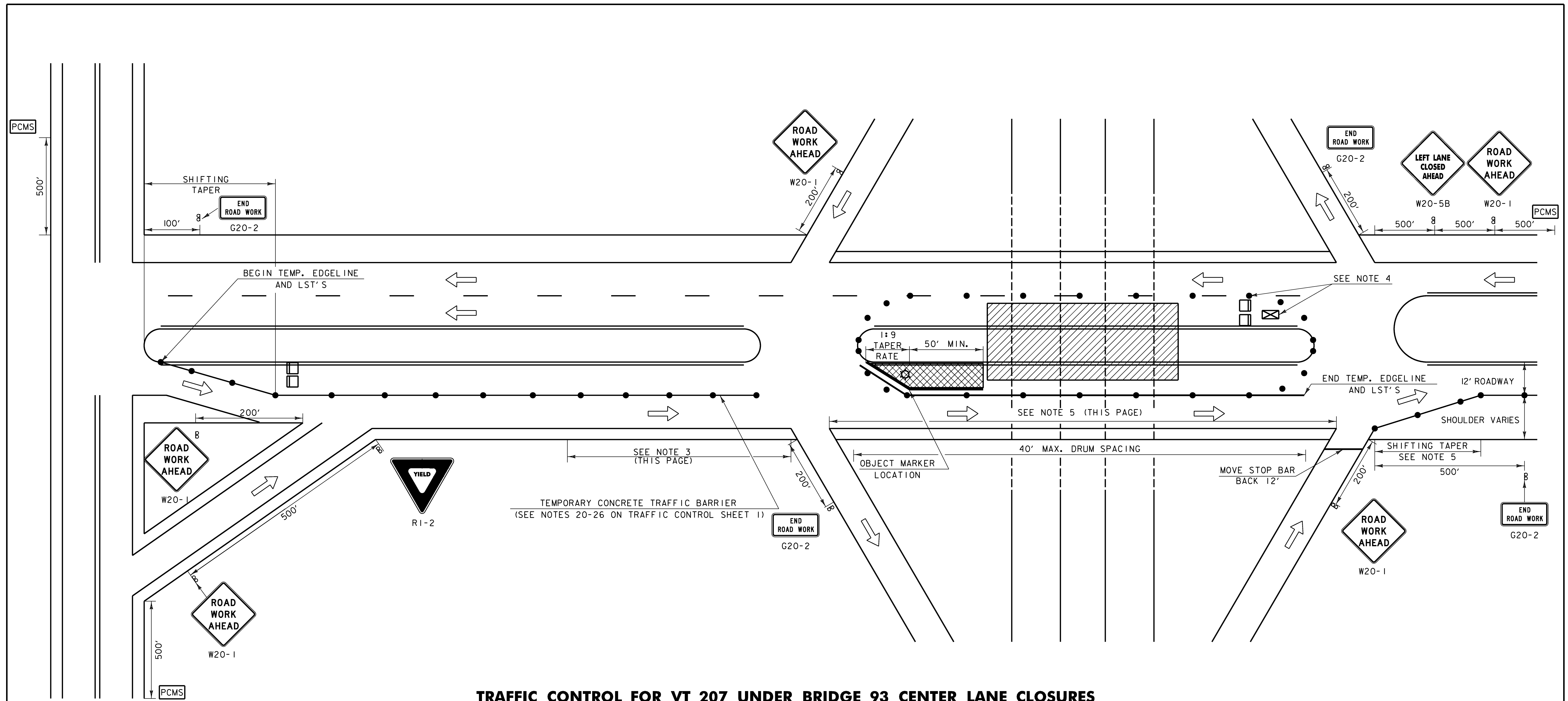
POSTED SPEED (MPH)	TAPER LENGTHS (FT)			TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	SHIFTING W=12 FT (L/2)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤40	90	160	320	160	1:9	305	40	80
45	150	270	540	270	1:9	360	45	90
50	170	300	600	300	1:11	425	50	100
55	185	330	660	330	1:13	495	55	110
60	200	360	720	360	1:13	570	60	120
65	215	390	780	390	1:13	645	65	130

TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:
 $L = WS$ FOR POSTED SPEEDS OF 45 MPH OR GREATER
 $L = WS^2/60$ FOR POSTED SPEEDS OF 40 MPH OR LESS
 L = MINIMUM LENGTH OF TAPER
 W = WIDTH OF OFFSET IN FEET. (TYPICAL)
 S = POSTED SPEED IN MPH

TRAFFIC CONTROL NOTES:

1. SEE THE TRAFFIC CONTROL NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
2. SEE THE CONCRETE MEDIAN BARRIER NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.

PROJECT NAME: ST. ALBANS - HIGHGATE	PLOT DATE: 8/17/2009
PROJECT NUMBER: IM BPNT(4)	DRAWN BY: NCF/JJB
FILE NAME: TCP BR 93.dgn	CHECKED BY: DH
PROJECT LEADER: JPB	SHEET 7 OF 32
DESIGNED BY: JJB	
TRAFFIC CONTROL SHEET 2	



**TRAFFIC CONTROL FOR VT 207 UNDER BRIDGE 93 CENTER LANE CLOSURES
WITH TEMPORARY CONCRETE TRAFFIC BARRIER**

TRAFFIC CONTROL NOTES:

- SEE THE TRAFFIC CONTROL NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
- SEE THE CONCRETE MEDIAN BARRIER NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
- PAVEMENT MARKINGS FOR TURN LANE NEED TO BE MASKED. ALL LANE USAGE SIGNS NEED TO BE COMPLETELY COVERED.
- ATTENUATOR AND CHANNELIZATION DEVICES ON SOUTHBOUND ARE NEEDED ONLY WHILE WORK IS TAKING PLACE.
- PAVEMENT MARKINGS FOR HATCHED SHOULDER NEED TO BE MASKED.

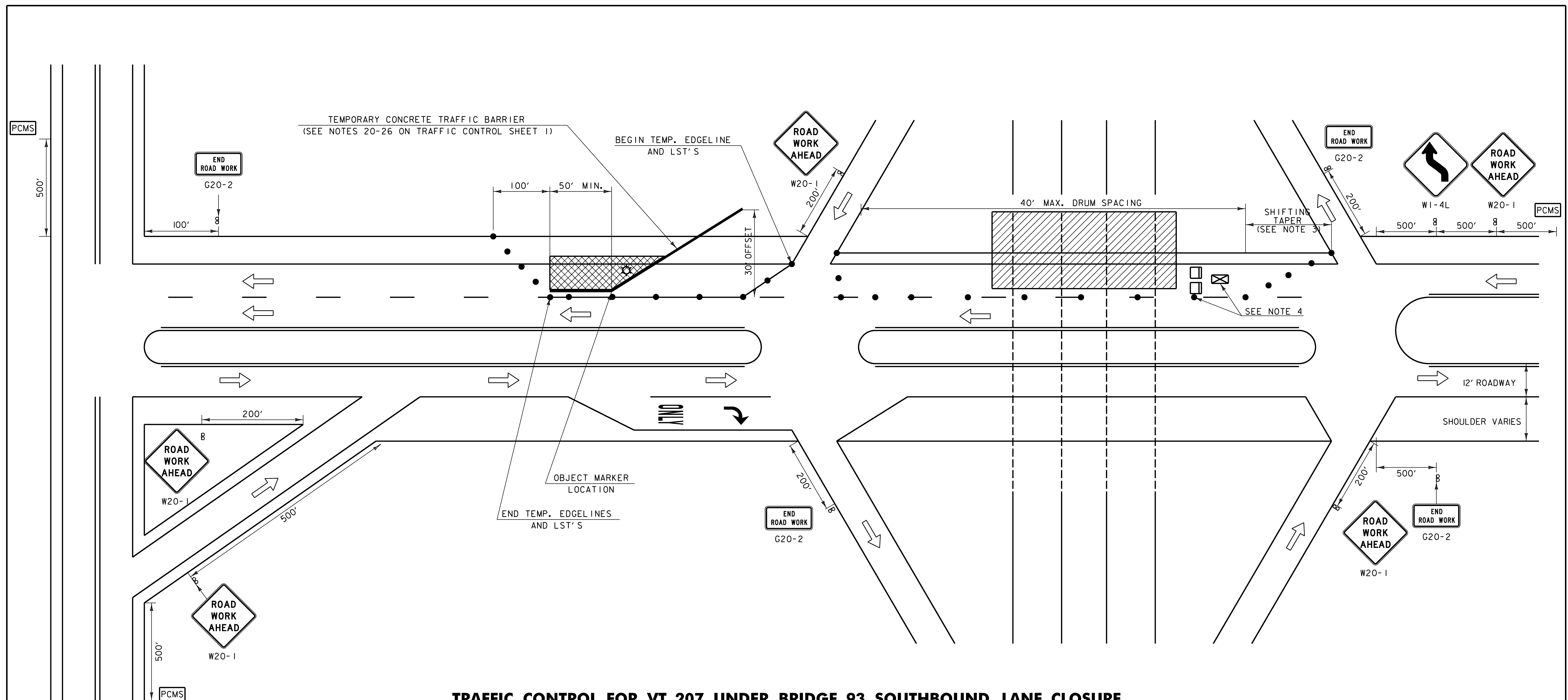
PROJECT NAME:	ST. ALBANS - HIGHGATE
PROJECT NUMBER:	IM BPNT(4)
FILE NAME:	TCP BR 93.dgn
PLOT DATE:	8/17/2009
PROJECT LEADER:	JJB
DRAWN BY:	NCF/JJB
DESIGNED BY:	JJB
CHECKED BY:	DH
TRAFFIC CONTROL SHEET 3	SHEET 8 OF 32

LEGEND

- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- PORTABLE ARROW BOARD
- TYPE III BARRICADE
- LIGHTING
- WORK AREA
- TRUCK/TRAILER MOUNTED ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 15 ON TRAFFIC CONTROL SHEET 1)
- CONSTRUCTION STAGING/ STORAGE AREA (SEE NOTE 25 ON TRAFFIC CONTROL SHEET 1)

POSTED SPEED (MPH)	TAPER LENGTHS (FT)			TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	SHIFTING W=12 FT (L/2)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤40	90	160	320	160	1:9	305	40	80
45	150	270	540	270	1:9	360	45	90
50	170	300	600	300	1:11	425	50	100
55	185	330	660	330	1:13	495	55	110
60	200	360	720	360	1:13	570	60	120
65	215	390	780	390	1:13	645	65	130

TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:
 $L = WS$ FOR POSTED SPEEDS OF 45 MPH OR GREATER
 $L = WS/60$ FOR POSTED SPEEDS OF 40 MPH OR LESS
 L = MINIMUM LENGTH OF TAPER
 W = WIDTH OF OFFSET IN FEET. (TYPICAL)
 S = POSTED SPEED IN MPH



**TRAFFIC CONTROL FOR VT 207 UNDER BRIDGE 93 SOUTHBOUND LANE CLOSURE
WITH TEMPORARY CONCRETE TRAFFIC BARRIER**

LEGEND

- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- PORTABLE ARROW BOARD
- TYPE III BARRICADE
- LIGHTING
- WORK AREA
- TRUCK/TRAILER MOUNTED ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 15 ON TRAFFIC CONTROL SHEET 1)
- CONSTRUCTION STAGING/ STORAGE AREA (SEE NOTE 25 ON TRAFFIC CONTROL SHEET 1)

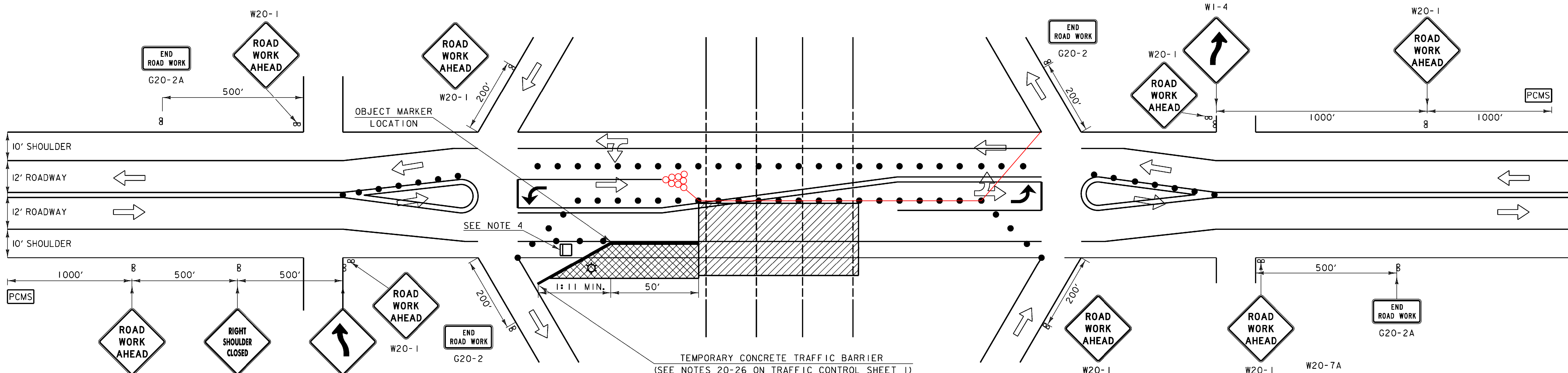
POSTED SPEED (MPH)	TAPER LENGTHS (FT)			TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	SHIFTING W=12 FT (L/2)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤40	90	160	320	160	1:9	305	40	80
45	150	270	540	270	1:9	360	45	90
50	170	300	600	300	1:11	425	50	100
55	185	330	660	330	1:13	495	55	110
60	200	360	720	360	1:13	570	60	120
65	215	390	780	390	1:13	645	65	130

TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:
 $L = WS/60$ FOR POSTED SPEEDS OF 45 MPH OR GREATER
 $L = WS/60$ FOR POSTED SPEEDS OF 40 MPH OR LESS
 L = MINIMUM LENGTH OF TAPER
 W = WIDTH OF OFFSET IN FEET. (TYPICAL)
 S = POSTED SPEED IN MPH

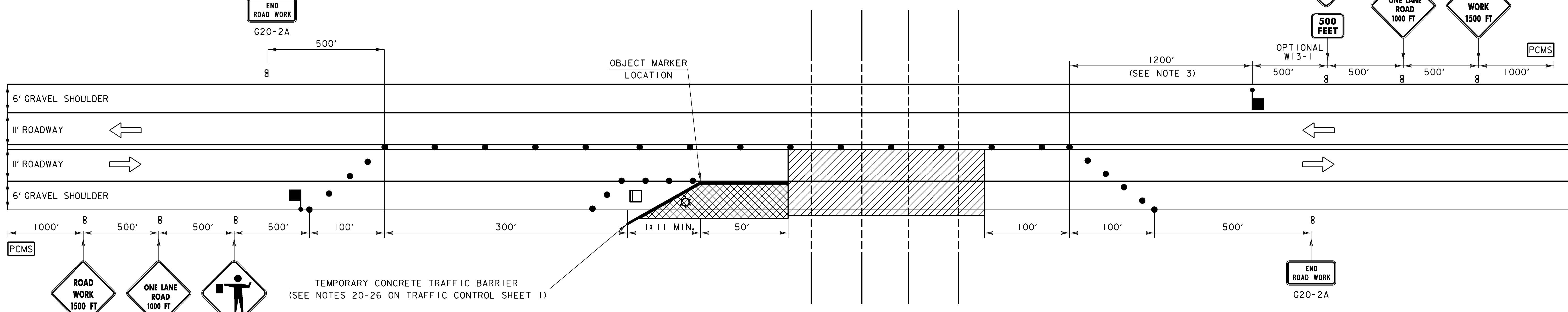
TRAFFIC CONTROL NOTES:

1. SEE THE TRAFFIC CONTROL NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
2. SEE THE CONCRETE MEDIAN BARRIER NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
3. IF FULL SHIFTING TAPER CANNOT BE PROVIDED, THE LENGTH OF THE TAPER SHOULD BE MAXIMIZED AS MUCH AS POSSIBLE.
4. ATTENUATOR ONLY NEEDED WHILE WORK IS TAKING PLACE. CHANNELIZATION DEVICES AND BARRICADES TO REMAIN FOR PROJECT DURATION.

PROJECT NAME: ST. ALBANS - HIGHGATE	PLOT DATE: 8/17/2009
PROJECT NUMBER: IM BPNT(4)	DRAWN BY: NCF/JJB
FILE NAME: TCP BR 93.dgn	CHECKED BY: DH
PROJECT LEADER: JPB	SHEET 9 OF 32
DESIGNED BY: JJB	
TRAFFIC CONTROL SHEET 4	



TRAFFIC CONTROL FOR VT 78 UNDER BRIDGE 98
WITH DAYTIME TWO WAY TRAFFIC AND TEMPORARY CONCRETE TRAFFIC BARRIER
 (EASTBOUND CLOSURE SHOWN, WESTBOUND CLOSURE MIRRORED)



TRAFFIC CONTROL FOR WOOD HILL ROAD UNDER BRIDGE 94
WITH DAYTIME ONE WAY ALTERNATING TRAFFIC AND TEMPORARY CONCRETE TRAFFIC BARRIER
 (EASTBOUND CLOSURE SHOWN, WESTBOUND CLOSURE MIRRORED)

- LEGEND**
- FLOW OF TRAFFIC
 - RETROREFLECTIVE PLASTIC DRUM
 - PORTABLE ARROW BOARD
 - TYPE III BARRICADE
 - LIGHTING
 - WORK AREA
 - TRUCK/TRAILER MOUNTED ATTENUATOR
 - PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 15 ON TRAFFIC CONTROL SHEET 1)
 - FLAGPERSON
 - CONSTRUCTION STAGING/ STORAGE AREA (SEE NOTE 25 ON TRAFFIC CONTROL SHEET 1)

- TRAFFIC CONTROL NOTES:**
1. SEE THE TRAFFIC CONTROL NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES AND APPROACH SIGNING FOR THE LEFT LANE CLOSURE.
 2. SEE THE CONCRETE MEDIAN BARRIER NOTES ON TRAFFIC CONTROL SHEET 1 FOR ADDITIONAL NOTES FOR LANE CLOSURES.
 3. DUE TO THE LARGE AMOUNT OF TRUCK TRAFFIC AND THE STEEP DOWNGRADE AT BRIDGE 94, THE WESTBOUND FLAGPERSON NEEDS TO BE POSITIONED AT THE CREST OF THE HILL, APPROXIMATELY 1200' WEST OF BRIDGE 94 NB.

PROJECT NAME: ST. ALBANS - HIGHGATE
 PROJECT NUMBER: IM BPNT(4)
 FILE NAME: TCP BR 98.dgn PLOT DATE: 8/17/2009
 PROJECT LEADER: JPB DRAWN BY: NCF/JJB
 DESIGNED BY: JJB CHECKED BY: DH
TRAFFIC CONTROL SHEET 5 SHEET 10 OF 32

PROJECT NOTES

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
2. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS. UNLESS SHOWN OTHERWISE ON REFERENCE PLANS, THE RIGHT-OF-WAY LIMITS FOR UNDERPASS ROADWAYS AND PATHS SHALL BE ASSUMED TO BE 3 RODS.
3. PAYMENT FOR THE REMOVAL AND RESETTING OF RIGHT-OF-WAY FENCE FOR STAGING OR CONSTRUCTION ACCESS SHALL BE UNDER ITEM 620.50 REMOVING AND RESETTING FENCE.
4. STAGING AREAS OFF THE PAVEMENT SHALL UNDERGO VTRANS CONSTRUCTION STAGING REVIEW. ALL DISTURBED STAGING AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. EXCEPT FOR EXPENSES COVERED UNDER ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING, ALL COSTS SHALL BE COVERED UNDER SUBSECTION 105.29 (a).
5. ALL COSTS ASSOCIATED WITH EXTENDING OR FILLING THE DRAIN TUBES AND REPAIRING SCUPPERS SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL).
6. ALL WELDING SHALL CONFORM WITH THE PROVISIONS OF SUBSECTION 506.10.
7. HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A-500 GRADE C.
8. ALL BARS SHALL CONFORM TO AASHTO 270 GRADE 50.
9. IT IS ANTICIPATED THAT LESS THAN 1 ACRE OF EARTH DISTURBANCE WILL OCCUR DURING PROJECT CONSTRUCTION. SHOULD THE CONTRACTOR'S OPERATIONS RESULT IN MORE THAN 1 ACRE OF EARTH DISTURBANCE, FOR TEMPORARY STAGING AREAS OR OTHERWISE, THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH THE AGENCY OF NATURAL RESOURCES (ANR) VIA FILING A JOINT NOTICE OF INTENT WITH THE TOWN FOR COVERAGE UNDER THE APPROPRIATE CONSTRUCTION GENERAL PERMIT (I.E. CGP-3-9020 (2006) OR INDIVIDUAL PERMIT) PRIOR TO SUCH DISTURBANCE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY NECESSARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NEEDED TO SATISFY ANY SUCH PERMIT REQUIREMENTS, SPECIFICALLY ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING. HOWEVER, IT SHOULD BE NOTED THAT THE CONTRACTOR IS ALWAYS RESPONSIBLE FOR ENSURING THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL TECHNIQUES ARE USED DURING CONSTRUCTION. EXCEPT FOR EXPENSES COVERED UNDER ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING, ALL COSTS SHALL BE COVERED UNDER SUBSECTION 105.29 (a). GUIDANCE ON EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN ANR'S PUBLICATIONS ENTITLED "THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" AND THE "VERMONT EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE."

PROTECTIVE COATINGS

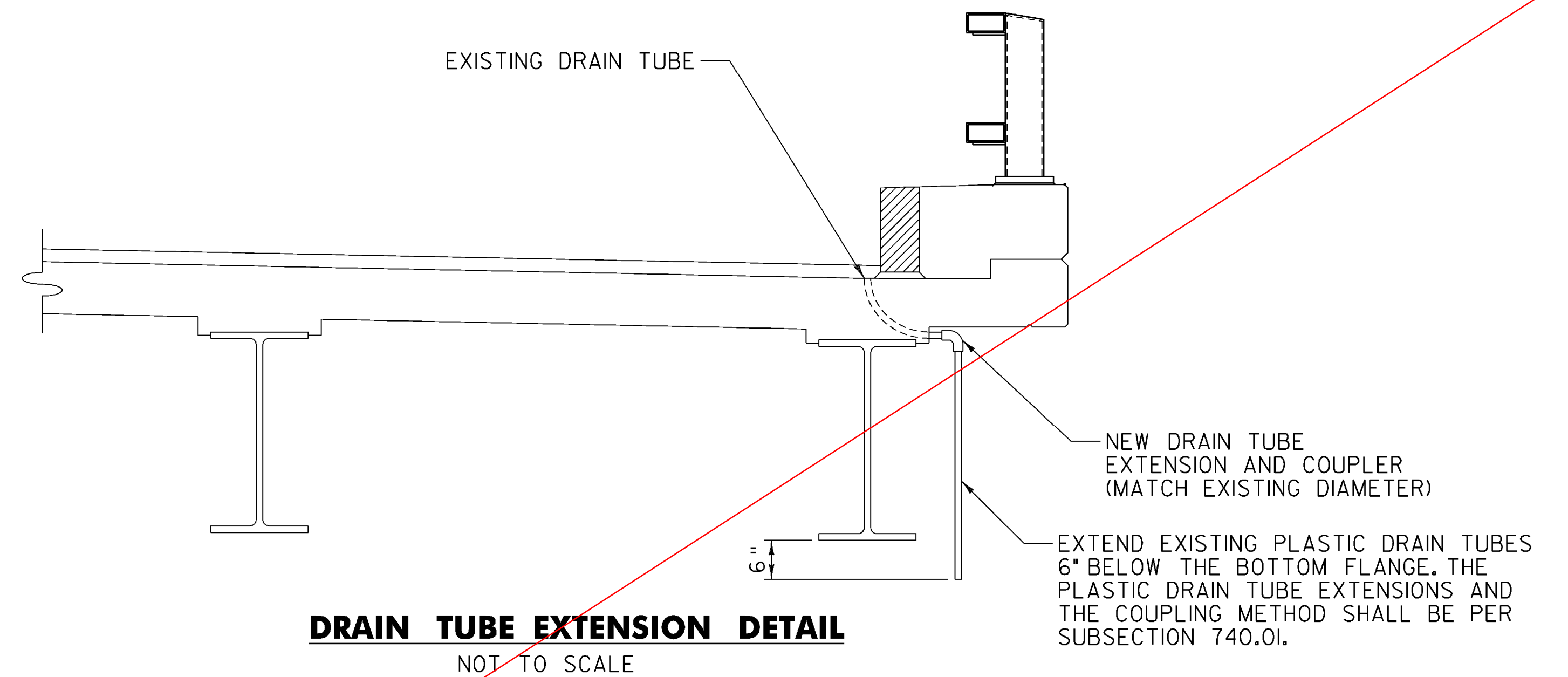
10. SURFACE PREPARATION SHALL INCLUDE TOTAL REMOVAL OF THE EXISTING COATING FROM ALL BRIDGE STEEL BY ABRASIVE BLAST CLEANING IN ACCORDANCE WITH SSPC-SP 10, "NEAR WHITE METAL". PREPARED SURFACES SHALL THEN BE COATED WITH AN APPROVED THREE COAT PAINT SYSTEM CONSISTING OF AN ORGANIC ZINC PRIMER COAT, AN EPOXY INTERMEDIATE COAT, AND A URETHANE FINISH COAT.
11. THE COLOR OF THE FINAL COAT OF PAINT SHALL BE BROWN CONFORMING TO SUBSECTION 708.03.
12. GREASE COATING SHALL BE APPLIED TO THE FULL DEPTH OF ALL STEEL FROM THE BEAMS ENDS TO A LENGTH EQUAL TO THE END DEPTH OF THE MEMBER.

TRAFFIC CONTROL

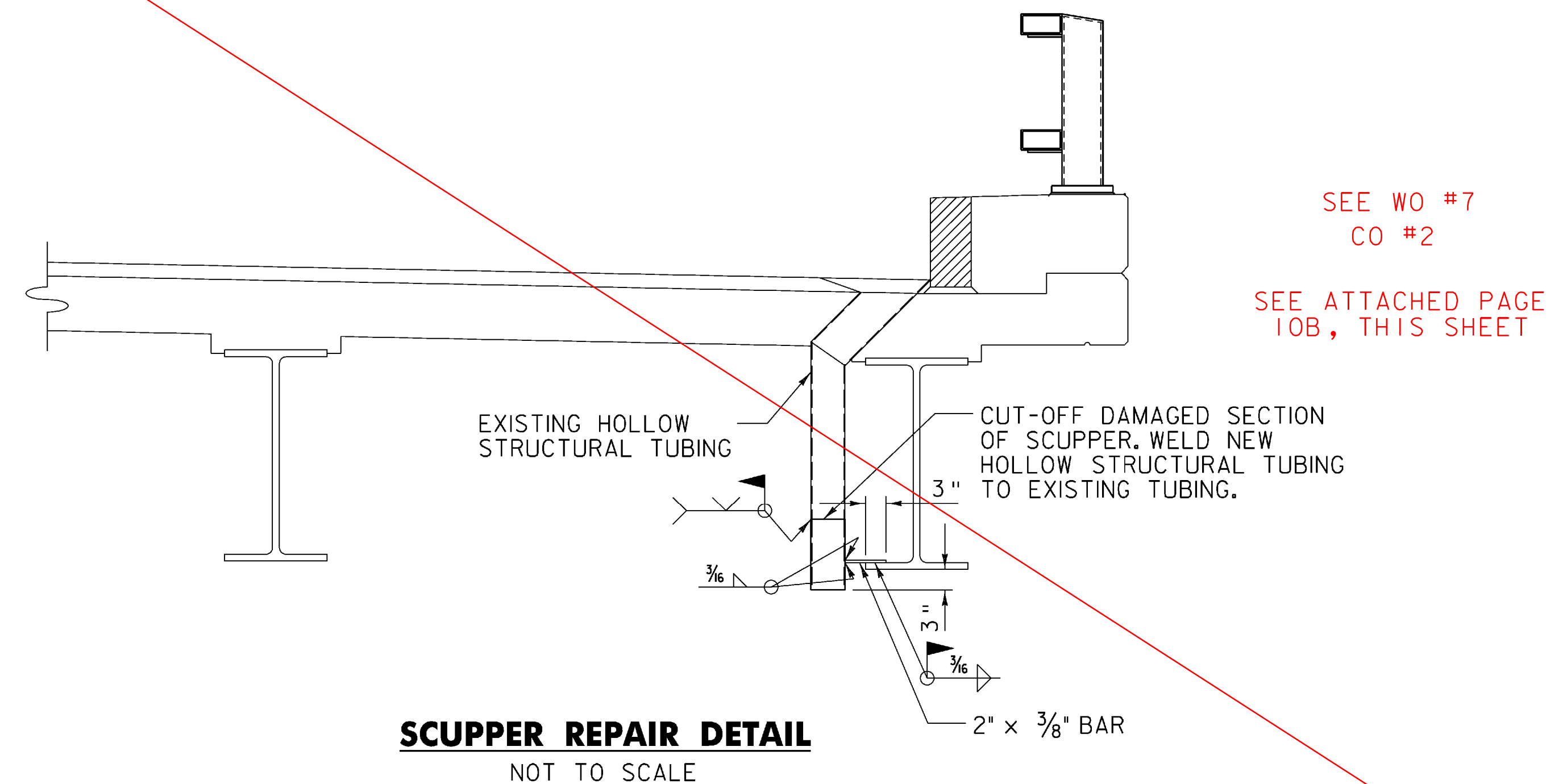
13. THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC TRAFFIC CONTROL PLANS DEPICTING EACH PHASE OF THE PLANNED WORK FOR ANY WORK ON I-89 OR FROM THE ROADS BELOW THE BRIDGES. PLANS SHALL BE SUBMITTED IN ACCORDANCE WITH SUBSECTION 105.03 AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN AN APPROPRIATE DISCIPLINE IN THE STATE OF VERMONT.
14. THE CONTRACTOR SHALL REQUEST TRAFFIC VOLUMES FROM VTRANS FOR USE IN THE PROJECT SPECIFIC TRAFFIC CONTROL PLANS.
15. IN ORDER TO COORDINATE WITH OTHER I-89 PROJECTS, WORK ON THE BRIDGES SHALL BE COMPLETED IN THE FOLLOWING CONSTRUCTION YEARS: 2010 - 2011
16. UNIFORMED TRAFFIC OFFICERS ARE REQUIRED FOR THE TRAFFIC CONTROL DESIGN ON I-89.
17. UNLESS COVERED UNDER INDIVIDUAL PAY ITEMS, ALL COSTS FOR TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC BARRIERS, SIGNS, AND SIGN POSTS, AS WELL AS ALL PROTECTION FOR TRAIL TRAFFIC WILL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL, ITEM 641.10.

UTILITIES

18. THERE ARE NO KNOWN UTILITIES ON THE BRIDGES.



1. DRAIN TUBE EXTENSION DETAIL TO BE USED WHERE THE END OF EXISTING TUBES ARE LESS THEN 6" BELOW ADJACENT BEAM.
2. IF EXISTING DRAIN TUBE IS TOO SHORT TO PROVIDE AN ADEQUATE CONNECTION, THE CONTRACTOR SHALL COMPLETELY FILL THE TUBE WITH POLYURETHANE SEALANT CONFORMING TO SUBSECTION 707.05. TUBES TO BE FILLED WITH POLYURETHANE SEALANT SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING FILLED.



1. ALL DETERIORATED SCUPPERS WITH SIGNIFICANT LOSS OF SECTION THAT CAN NOT BE SUFFICIENTLY REPAIRED BY CLEANING AND PAINTING SHALL BE CUT-OFF ABOVE DETERIORATION AND REPAIRED. THE ENGINEER SHALL APPROVE EACH DETERIORATED SCUPPER IDENTIFIED BY THE CONTRACTOR PRIOR TO BEING REPAIRED.

SEE WO #7
CO #2

SEE ATTACHED PAGE
10B, THIS SHEET

PROJECT NAME: ST. ALBANS - HIGHGATE
PROJECT NUMBER: IM BPNT(4)

FILE NAME: I0-Br Notes.dgn
PROJECT LEADER: JPB
DESIGNED BY: SRB

PLOT DATE: 8/17/2009
DRAWN BY: MWS
CHECKED BY: JPB
SHEET 10A OF 32

PROJECT NOTES AND DETAILS

PROJECT NOTES

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
2. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS. UNLESS SHOWN OTHERWISE ON REFERENCE PLANS, THE RIGHT-OF-WAY LIMITS FOR UNDERPASS ROADWAYS AND PATHS SHALL BE ASSUMED TO BE 3 RODS.
3. PAYMENT FOR THE REMOVAL AND RESETTING OF RIGHT-OF-WAY FENCE FOR STAGING OR CONSTRUCTION ACCESS SHALL BE UNDER ITEM 620.50 REMOVING AND RESETTING FENCE.
4. STAGING AREAS OFF THE PAVEMENT SHALL UNDERGO VTRANS CONSTRUCTION STAGING REVIEW. ALL DISTURBED STAGING AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. EXCEPT FOR EXPENSES COVERED UNDER ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING, ALL COSTS SHALL BE COVERED UNDER SUBSECTION 105.29 (g).
5. ALL COSTS ASSOCIATED WITH EXTENDING OR FILLING THE DRAIN TUBES AND REPAIRING SCUPPERS SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (QC/QA CLEAN AND PAINT EXISTING STEEL STRUCTURES, BARE STEEL).
6. ALL WELDING SHALL CONFORM WITH THE PROVISIONS OF SUBSECTION 506.10.
7. HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A-500 GRADE C.
8. ALL BARS SHALL CONFORM TO AASHTO 270 GRADE 50.
9. IT IS ANTICIPATED THAT LESS THAN 1 ACRE OF EARTH DISTURBANCE WILL OCCUR DURING PROJECT CONSTRUCTION. SHOULD THE CONTRACTOR'S OPERATIONS RESULT IN MORE THAN 1 ACRE OF EARTH DISTURBANCE, FOR TEMPORARY STAGING AREAS OR OTHERWISE, THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH THE AGENCY OF NATURAL RESOURCES (ANR) VIA FILING A JOINT NOTICE OF INTENT WITH THE TOWN FOR COVERAGE UNDER THE APPROPRIATE CONSTRUCTION GENERAL PERMIT (I.E. CGP-3-9020 (2006) OR INDIVIDUAL PERMIT) PRIOR TO SUCH DISTURBANCE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY NECESSARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NEEDED TO SATISFY ANY SUCH PERMIT REQUIREMENTS, SPECIFICALLY ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING. HOWEVER, IT SHOULD BE NOTED THAT THE CONTRACTOR IS ALWAYS RESPONSIBLE FOR ENSURING THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL TECHNIQUES ARE USED DURING CONSTRUCTION. EXCEPT FOR EXPENSES COVERED UNDER ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.20 TEMPORARY EROSION MATTING, ALL COSTS SHALL BE COVERED UNDER SUBSECTION 105.29 (g). GUIDANCE ON EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN ANR'S PUBLICATIONS ENTITLED "THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" AND THE "VERMONT EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE."

PROTECTIVE COATINGS

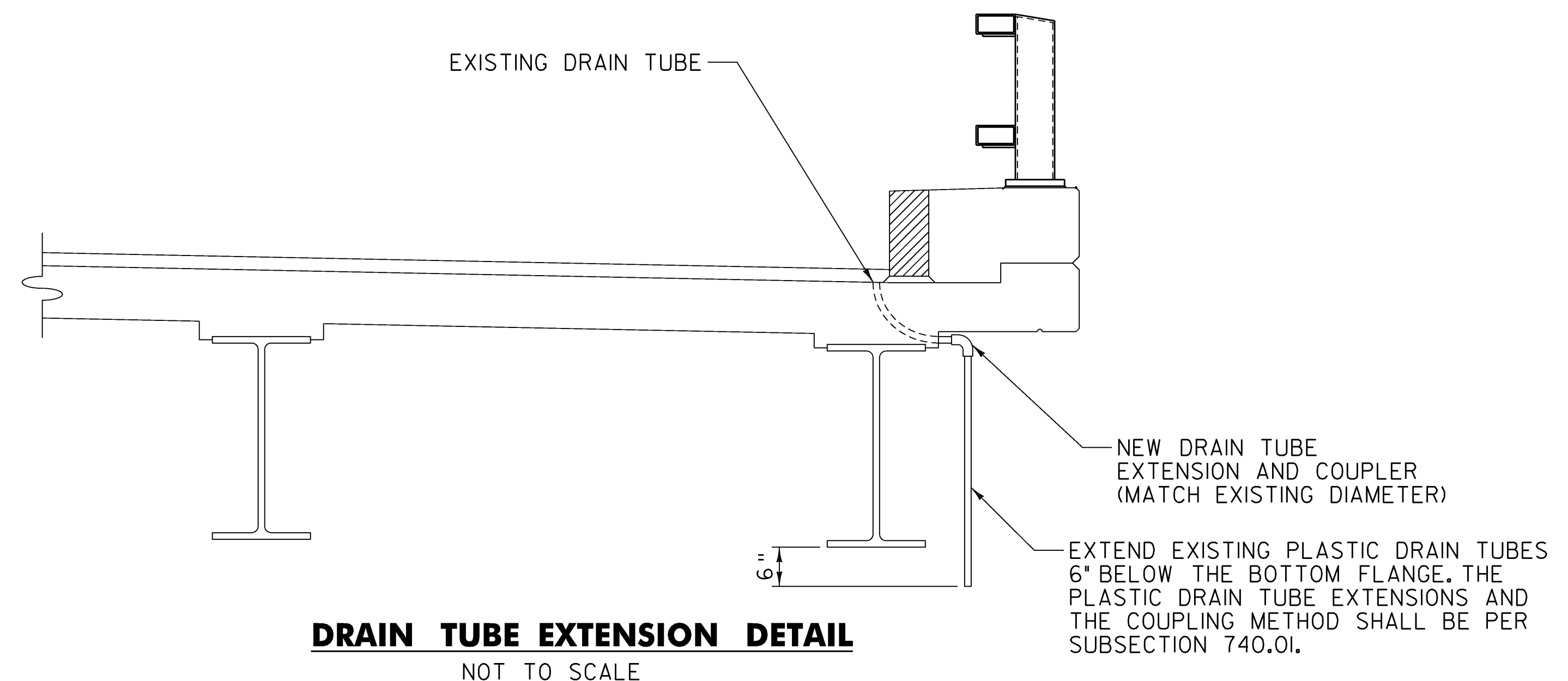
10. SURFACE PREPARATION SHALL INCLUDE TOTAL REMOVAL OF THE EXISTING COATING FROM ALL BRIDGE STEEL BY ABRASIVE BLAST CLEANING IN ACCORDANCE WITH SSPC-SP 10, "NEAR WHITE METAL". PREPARED SURFACES SHALL THEN BE COATED WITH AN APPROVED THREE COAT PAINT SYSTEM CONSISTING OF AN ORGANIC ZINC PRIMER COAT, AN EPOXY INTERMEDIATE COAT, AND A URETHANE FINISH COAT.
11. THE COLOR OF THE FINAL COAT OF PAINT SHALL BE BROWN CONFORMING TO SUBSECTION 708.03.
12. GREASE COATING SHALL BE APPLIED TO THE FULL DEPTH OF ALL STEEL FROM THE BEAMS ENDS TO A LENGTH EQUAL TO THE END DEPTH OF THE MEMBER.

TRAFFIC CONTROL

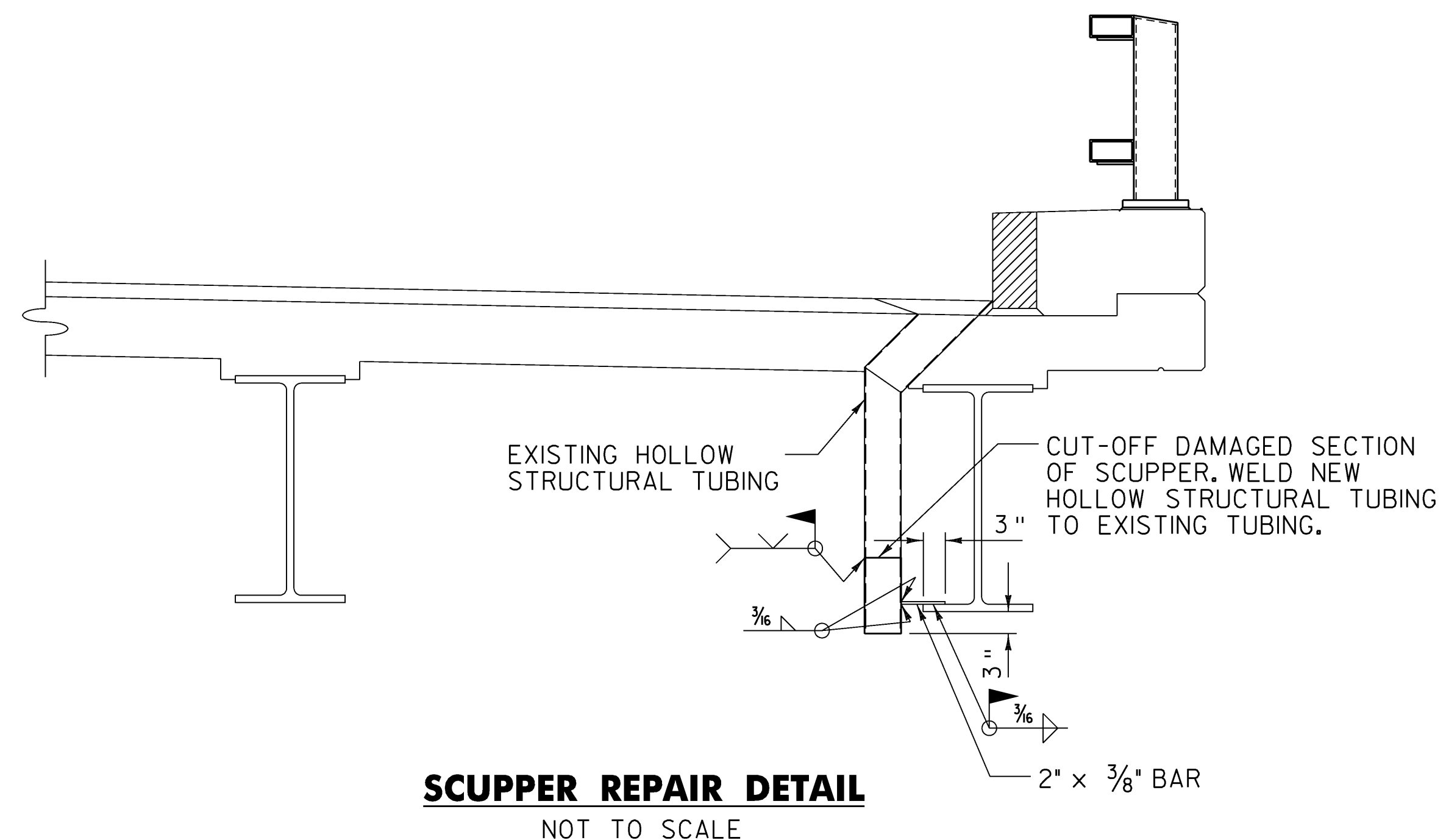
13. THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC TRAFFIC CONTROL PLANS DEPICTING EACH PHASE OF THE PLANNED WORK FOR ANY WORK ON I-89 OR FROM THE ROADS BELOW THE BRIDGES. PLANS SHALL BE SUBMITTED IN ACCORDANCE WITH SUBSECTION 105.03 AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN AN APPROPRIATE DISCIPLINE IN THE STATE OF VERMONT.
14. THE CONTRACTOR SHALL REQUEST TRAFFIC VOLUMES FROM VTRANS FOR USE IN THE PROJECT SPECIFIC TRAFFIC CONTROL PLANS.
15. IN ORDER TO COORDINATE WITH OTHER I-89 PROJECTS, WORK ON THE BRIDGES SHALL BE COMPLETED IN THE FOLLOWING CONSTRUCTION YEARS: 2010 - 2011
16. UNIFORMED TRAFFIC OFFICERS ARE REQUIRED FOR THE TRAFFIC CONTROL DESIGN ON I-89.
17. UNLESS COVERED UNDER INDIVIDUAL PAY ITEMS, ALL COSTS FOR TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC BARRIERS, SIGNS, AND SIGN POSTS, AS WELL AS ALL PROTECTION FOR TRAIL TRAFFIC WILL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL, ITEM 641.10.

UTILITIES

18. THERE ARE NO KNOWN UTILITIES ON THE BRIDGES.



1. DRAIN TUBE EXTENSION DETAIL TO BE USED WHERE THE END OF EXISTING TUBES ARE LESS THEN 6" BELOW ADJACENT BEAM.
2. IF EXISTING DRAIN TUBE IS TOO SHORT TO PROVIDE AN ADEQUATE CONNECTION, THE CONTRACTOR SHALL COMPLETELY FILL THE TUBE WITH POLYURETHANE SEALANT CONFORMING TO SUBSECTION 707.05. TUBES TO BE FILLED WITH POLYURETHANE SEALANT SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING FILLED.



1. ALL DETERIORATED SCUPPERS WITH SIGNIFICANT LOSS OF SECTION THAT CAN NOT BE SUFFICIENTLY REPAIRED BY CLEANING AND PAINTING SHALL BE CUT-OFF ABOVE DETERIORATION AND REPAIRED. THE ENGINEER SHALL APPROVE EACH DETERIORATED SCUPPER IDENTIFIED BY THE CONTRACTOR PRIOR TO BEING REPAIRED.

PROJECT NAME: ST. ALBANS - HIGHGATE

PROJECT NUMBER: IM BPNT(4)

FILE NAME: 10-Br Notes.dgn

PLOT DATE: 8/17/2009

PROJECT LEADER: JPB

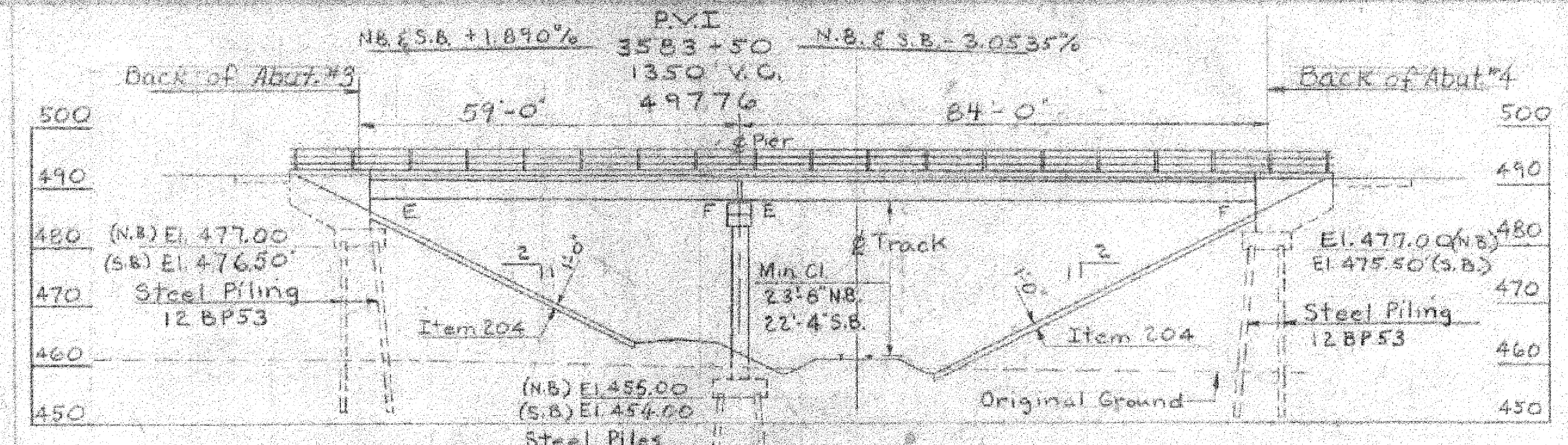
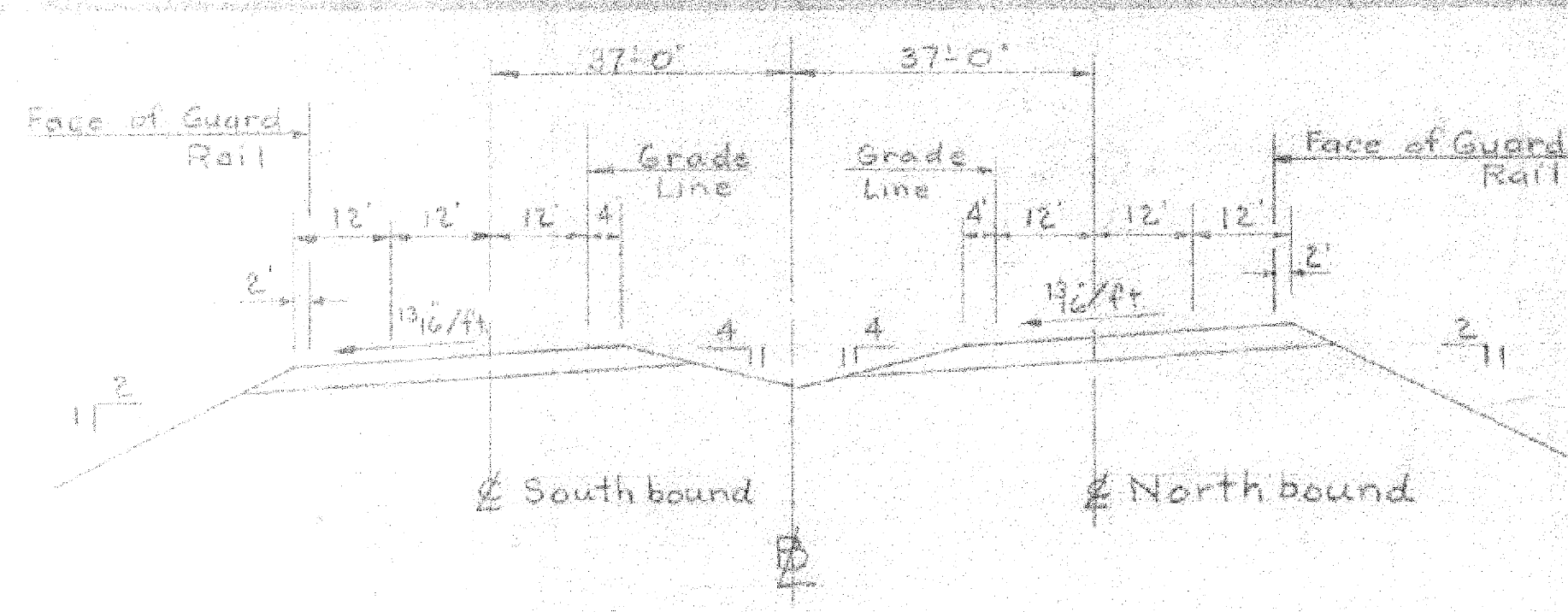
DRAWN BY: MWS

DESIGNED BY: SRB

CHECKED BY: JPB

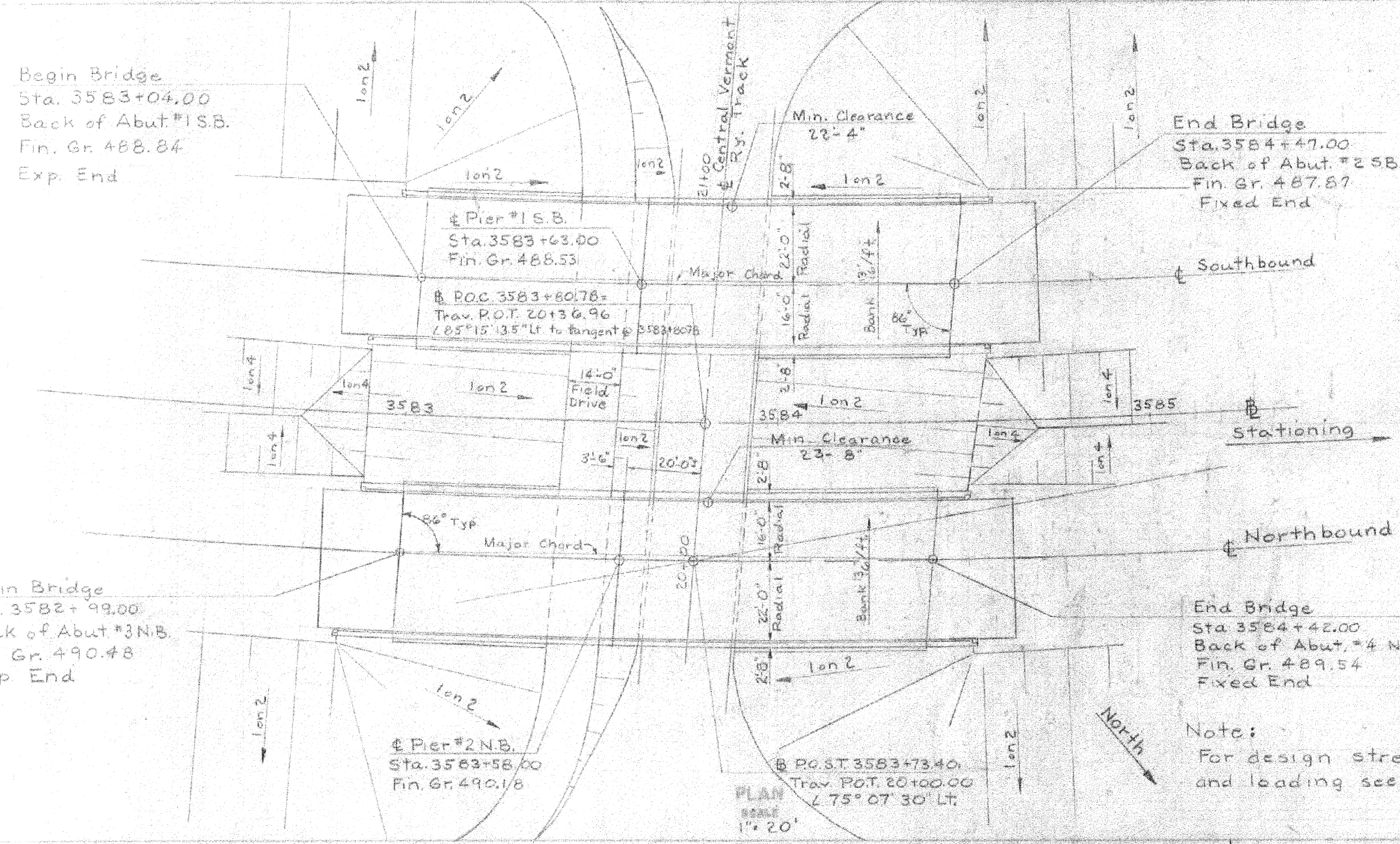
PROJECT NOTES AND DETAILS

SHEET 10A OF 32



TYPICAL HIGHWAY SECT. I 89
SCALE 1" = 20'

NEW HIGHWAY PROFILE ALONG NORTHBOUND FASCIA
SCALE 1" = 20'



Circular Curve Data
 $\Delta 65^\circ 08' 15''$ Lt.
 $D 2^\circ 30'$
 $R 2291.83$
 $L 1463.95$
 $E 427.92$
 $Bank 13/16'$

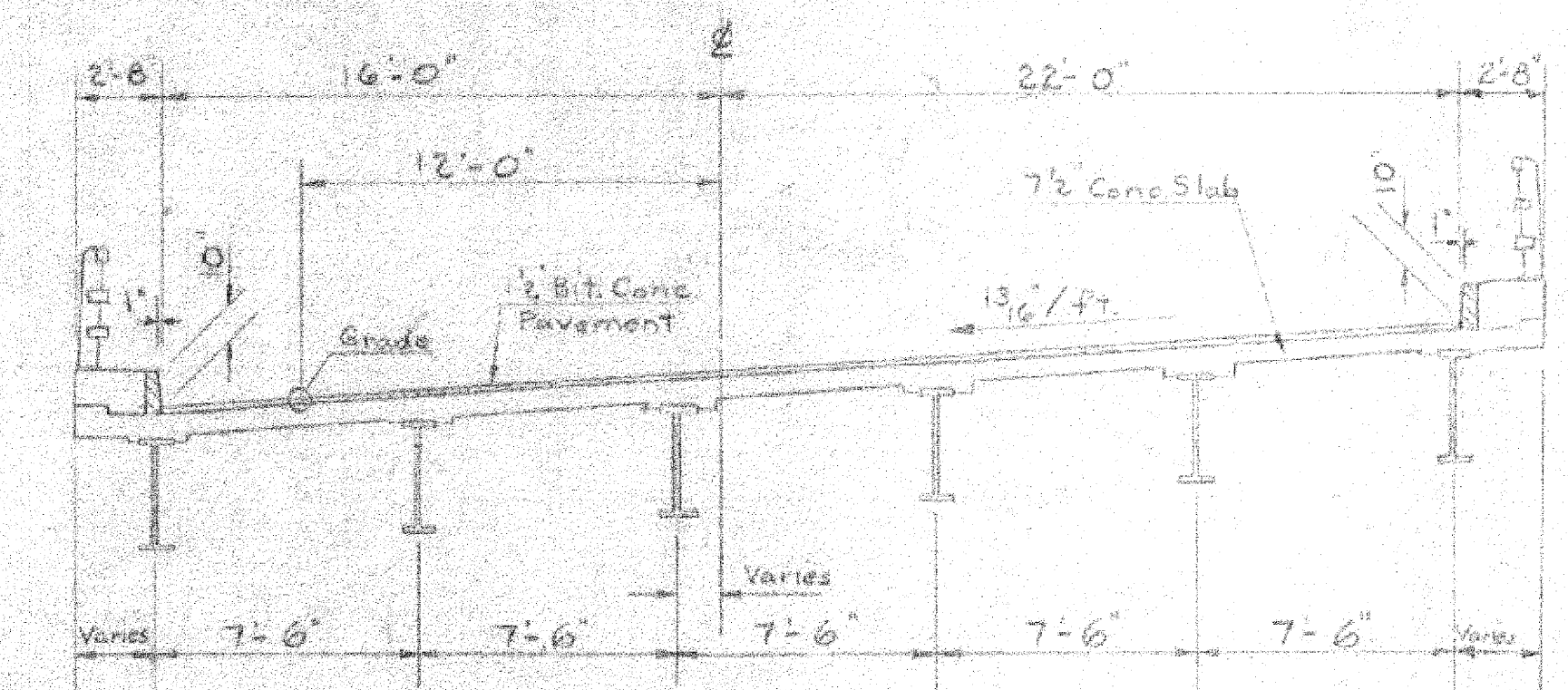
HIGHWAY NO.	I 89	NAME OF HIGHWAY	Interstate
STRUCTURE NO.	S3-B4	COUNTY	Franklin
		TOWN	St. Albans
PROJECT NO.	I 89-3(26)	LOCATION	St. Albans - Swanton
	Cont. #1		I 89 over C.V.Ry. Sta. 3584 ±

EXISTING STRUCTURE	
1. BASED LOADING OF EXISTING STRUCTURE	
2. TYPE OF EXISTING STRUCTURE	
3. UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE	
4. WIND DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE	COST OF REMOVAL
5. SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE	
6. SHOULD NEW TEMPORARY STRUCTURE BE BUILT	
7. ORDINARY HIGH WATER STAGE ELEV. AT EXISTING STRUCTURE	WATERWAY TO ORDINARY H.W.
8. EXTREME HIGH WATER AT EXISTING STRUCTURE	WATERWAY TO EXTREME H.W.
9. SPAN OF EXISTING BRIDGE UPSTREAM	WATERWAY TO EXISTING H.W.
10. SPAN OF EXISTING BRIDGE DOWNSTREAM	WATERWAY TO EXTREME H.W.
11. TYPE OF FOUNDATION UNDER EXISTING STRUCTURE	
12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE	
13. IF NOT AT WHAT ELEVATION IS RELIEF PROVIDED	
14. ADDITIONAL WATERWAY AREA PROVIDED	

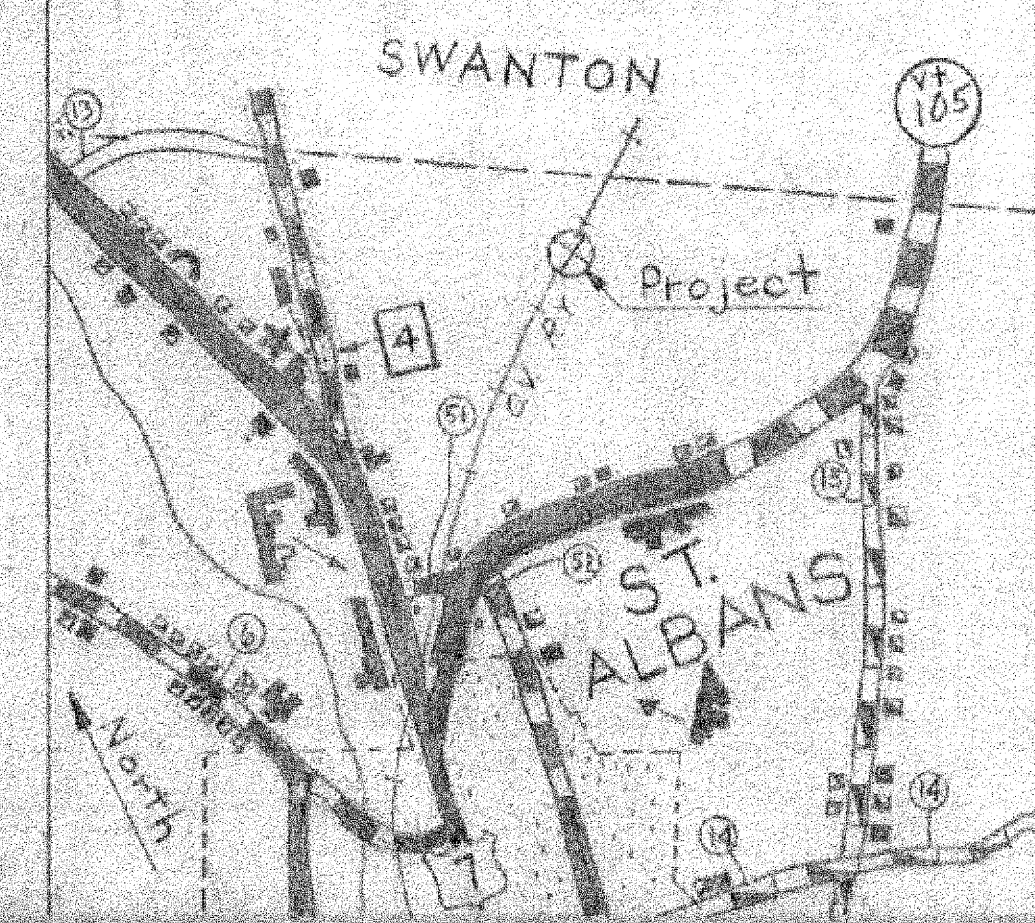
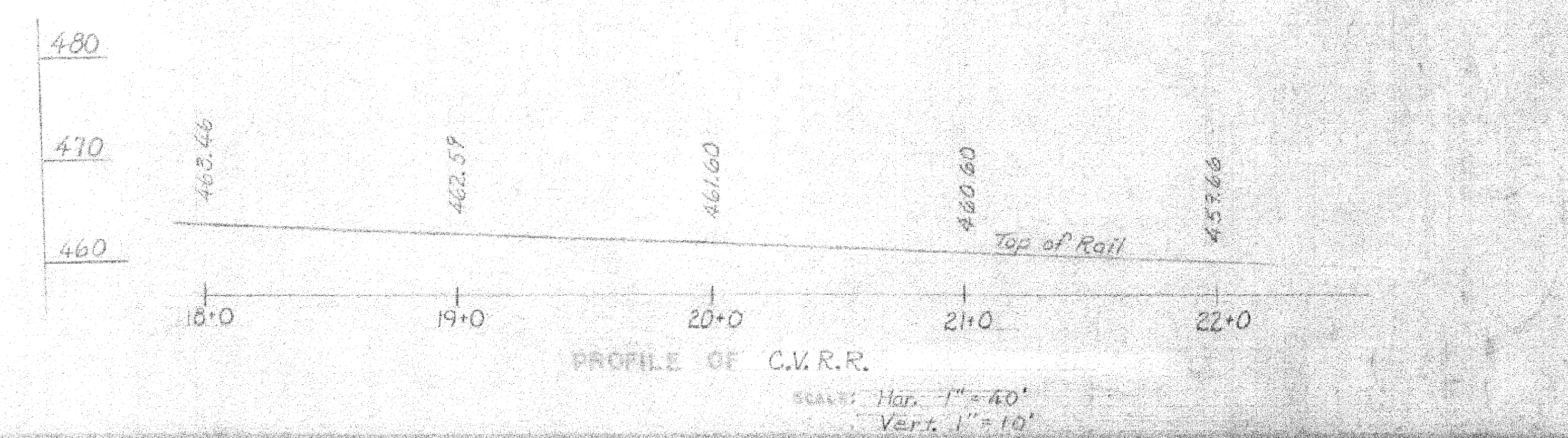
NEW STRUCTURE	
1. RECOMMENDED TYPE OF STRUCTURE	2 Span Simple W. Beam Bridges SCB-38-65
2. RECOMMENDED CLEAR SPAN OR SPANS	59' - 84' (Composite)
3. MEASURED PARALLEL TO A NEW HIGHWAY	
4. MEASURED AT RIGHT ANGLED TO STREAM	
5. ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO	
6. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE	SOURCE OF INFORMATION
7. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE	SOURCE OF INFORMATION
8. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE?	
9. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	IS ORDINARY HIGH WATER
10. LOW WATER ELEVATION AT NEW STRUCTURE	
11. DRAINAGE AREA IS ACHIEVED ABOVE STRUCTURE	CHARACTER OF TERRAIN
12. IS STREAM EVER DRY?	
13. VELOCITY OF STREAM AT HIGH WATER STAGE	ESTIMATED DISCHARGE
14. AREA FULL OPENING	AREA BELOW ORDINARY H.W.
15. CHARACTER OF FLOOR	SHIT
16. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE	
17. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION	
18. ARE SIGNALS REQUIRED, IF SO ON WHAT SIDE	N/A
19. RECOMMENDED TYPE OF PAVEMENT	1 1/2" Bit. Concrete
20. TRAFFIC TO BE MAINTAINED UNDER ITEM NO.	ONE OR TWO WAY PROBABLE POST
21. PROBABLE COST OF CLEARING AND MAINTAINING STREAM CHANNEL AT STRUCTURE SITE	
22. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES?	
23. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS	45 ton/ft. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

FOUNDATION INFORMATION			
Abut. #1	35'	Abut. #3	35'
Pier #1	15'	Pier #2	15'
Abut. #2	35'	Abut. #4	35'

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BOULGERS MAY BE ENCOUNTERED AT ANY PILE OR ABUTMENT LOCATION.



Typical Northbound Bridge Section
Scale 1" = 5'
(Southbound Section Similar)



ST. ALBANS - HIGHGATE
 (M BPNTO)
 SHEET 11 OF 32
 BRIDGE 92N&S
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

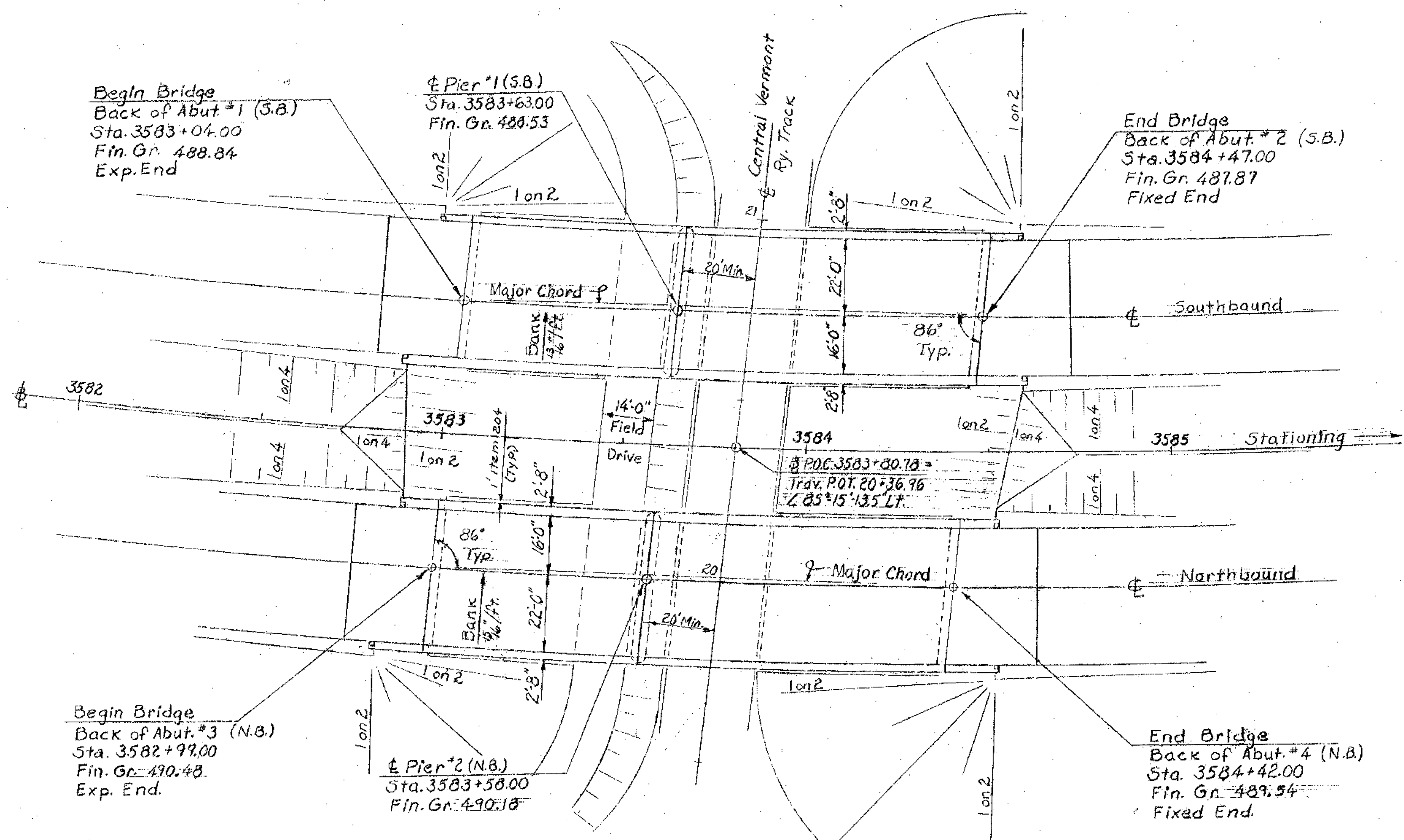
Interstate IN THE TOWNS OF
 St. Albans - Swanton

ROUTE NO I 89 100 STA
 I 89 over C.V.Ry. Sta. 3584 ±

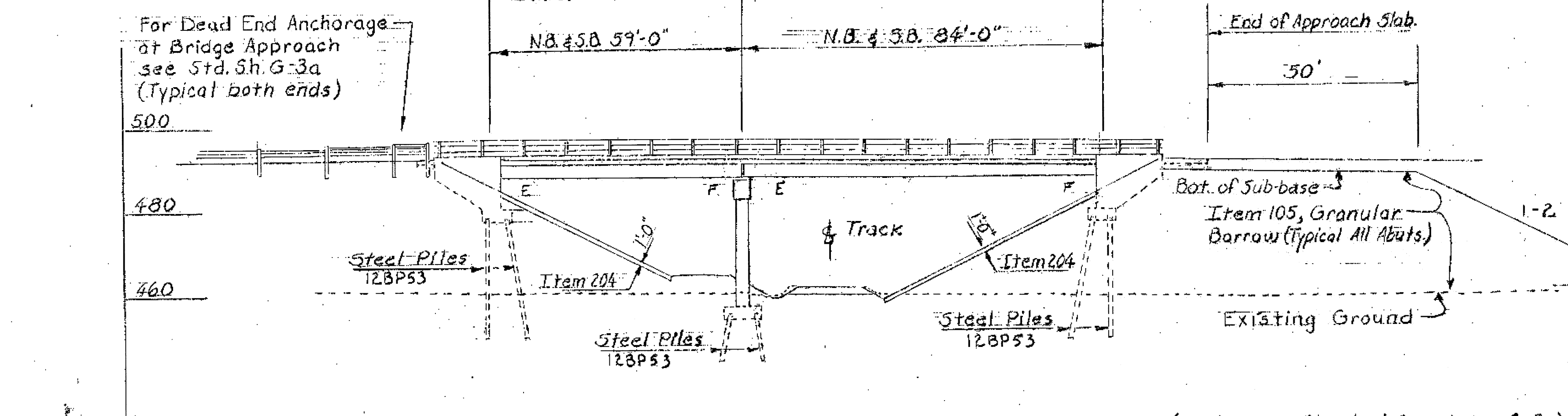
PROJECT NO. I 89-3(26) SHEET 11 OF 32

DATE 3/3/60

BR-402
 SHEET 98 OF 153



Curve Data
 Δ 65°-08'-15" Lt.
 R 2291.83
 T 1463.95
 L 2605.50
 E 427.92
 Bank $\frac{1}{2}$ " per Ft.



ELEVATION
 Scale: 1" = 20'

7. Anchor Post No. 6 (as shown on Standard Structures G-3a) and necessary hardware to attach to wings of all bridge abutments is to be furnished, installed and paid for at the unit price bid for Item 404-A Structural Steel

LIST OF BRIDGE SHEETS

- BR-400 General Plan and Elevation
- BR-401 Bridge Quantity Sheet
- BR-402 Preliminary Information Sheet
- BR-403 Boring layout
- BR-404 Boring Logs
- BR-405 Boring Logs
- BR-406 Boring Logs
- BR-407 Framing Plan
- BR-408 Curb and Railing Plan and Typical Bridge Section
- BR-409 Details of Abutment No. 1 (Southbound)
- BR-410 Details of Abutment No. 2 (Southbound)
- BR-411 Details of Abutment No. 3 (Northbound)
- BR-412 Details of Abutment No. 4 (Northbound)
- BR-413 Details of Pier No. 1 & No. 2
- BR-414 Pier No. 1 & No. 2 Reinforcing Steel Details
- BR-415 Details of Approach Slab No. 1
- BR-416 Details of Approach Slab No. 2
- BR-417 Details of Approach Slab No. 3
- BR-418 Details of Approach Slab No. 4
- BR-419 Reinforcing Steel Schedule
- BR-420 Reinforcing Steel Schedule

STANDARD SHEETS

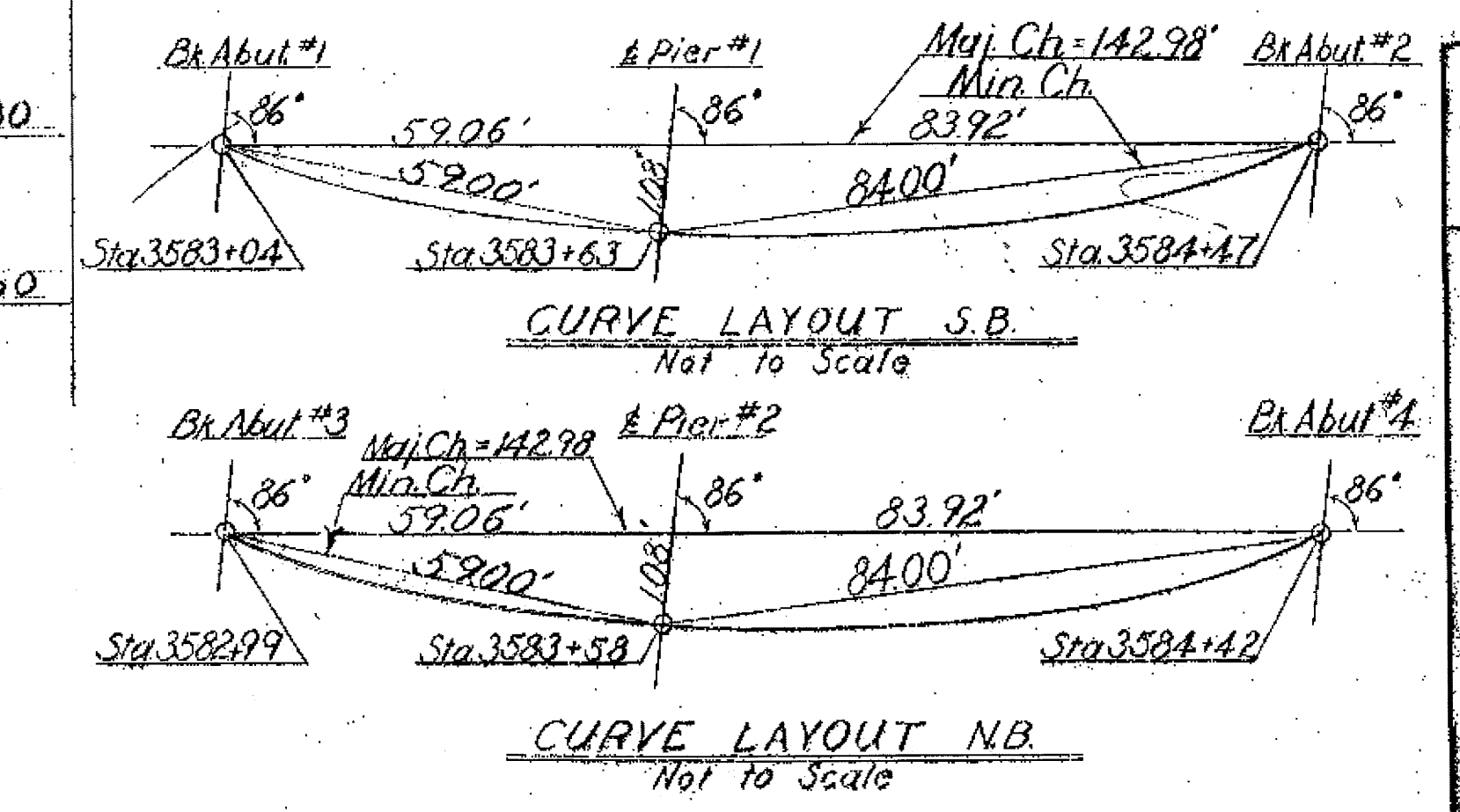
- SCB-38-65, SCB-D1-65, SCB-D2-65, SCB-D3-65,
- SCB-D4-65, SCB-D5-65, SCB-D6-65 (Det. A, B & F), SCB-D7-65,
- SCB-D8-65, SCB-D9-65 (Det. A), SB-R1-64, Sheets 1 & 2,
- SB-R2-65, G-3a

REFERENCE SHEETS

- Plan I-89 (Scale 1" = 50') Sta. 3572+00 to Sta. 3588+00
- Profile I-89 NB & S.B. Sta. 3572+00 to Sta. 3588+00
- Cross Sections I-89 Sta. 3582+50 to Sta. 3585+0
- Cross Sections C.V. RY. Sta. 18+00 to Sta. 21+50

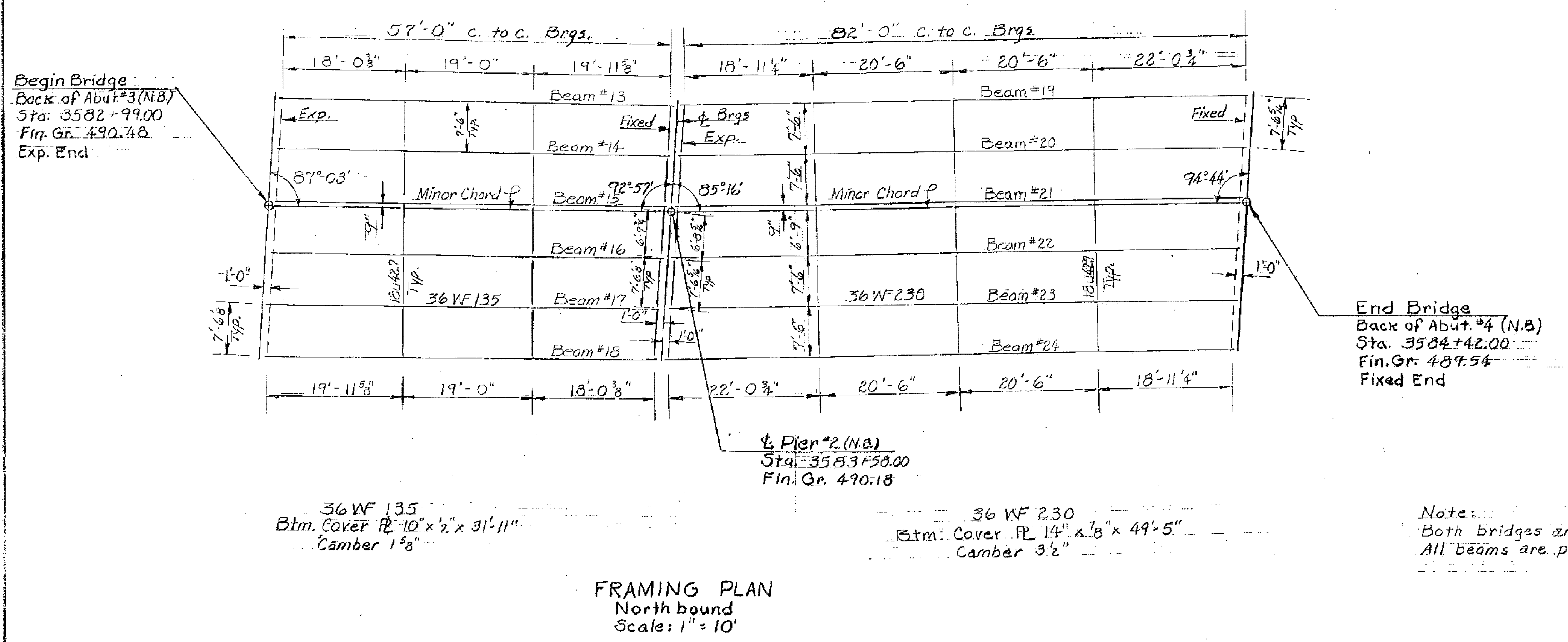
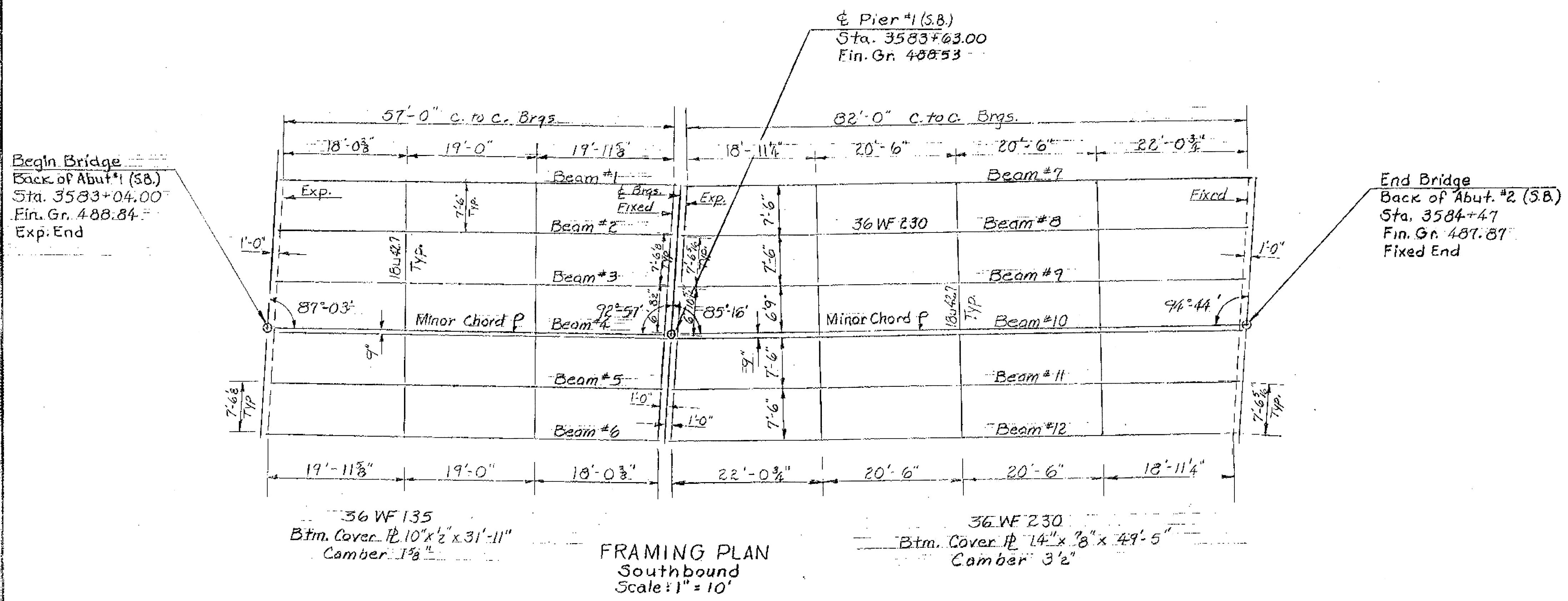
NOTES

1. For General Notes see Std. Sh. SCB-D1-65.
2. For Superstructure details see Std. Sh. SCB-38-65 and Typical Bridge Section on Sheet BR-408.
3. For Details of Dead End Anchorages see Std. Sh. G-3a.
4. Item 440, Water Repellent, shall consist of furnishing and applying water repellent on exterior concrete surfaces on top of the safety walk, sidewalk, on the fascia and back to the drip bead under the slab, on the sides, ends, and bottoms of all pier caps, and on exposed faces of abutments not otherwise treated.
5. All 12BP53 Steel Piles shall be driven to the designed bearing capacity of 45 tons per pile. In any case, these piles are to be driven to penetrate into the original ground at least 10 feet. Minimum length of pile is to be 10' below bottom of footing.
6. Item 505, Pile Loading Tests, to be used only if ordered by the



ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 12 OF 32
 BRIDGE 92N&S
 FOR REFERENCE ONLY

TOWN OF St. Albans - Swanton
 ROUTE No. I-89 LOG. STA. _____
 I-89 over C.V. Ry. @ Sta. 3584+0
 General Plan and Elevation
 Scale - As Noted
 SURVEYED BY _____
 DRAWN BY J.W. CHECKED BY D.H.B.
 PROJECT No. I-89
 SHEET 12 OF 32
 1/53



Note:
 Both bridges are identically framed
 All beams are parallel to Minor Chord

ST. ALBANS - HIGHWAY
 IM BPNT(4)
 SHEET 13 OF 32
 BRIDGE 92N&S
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

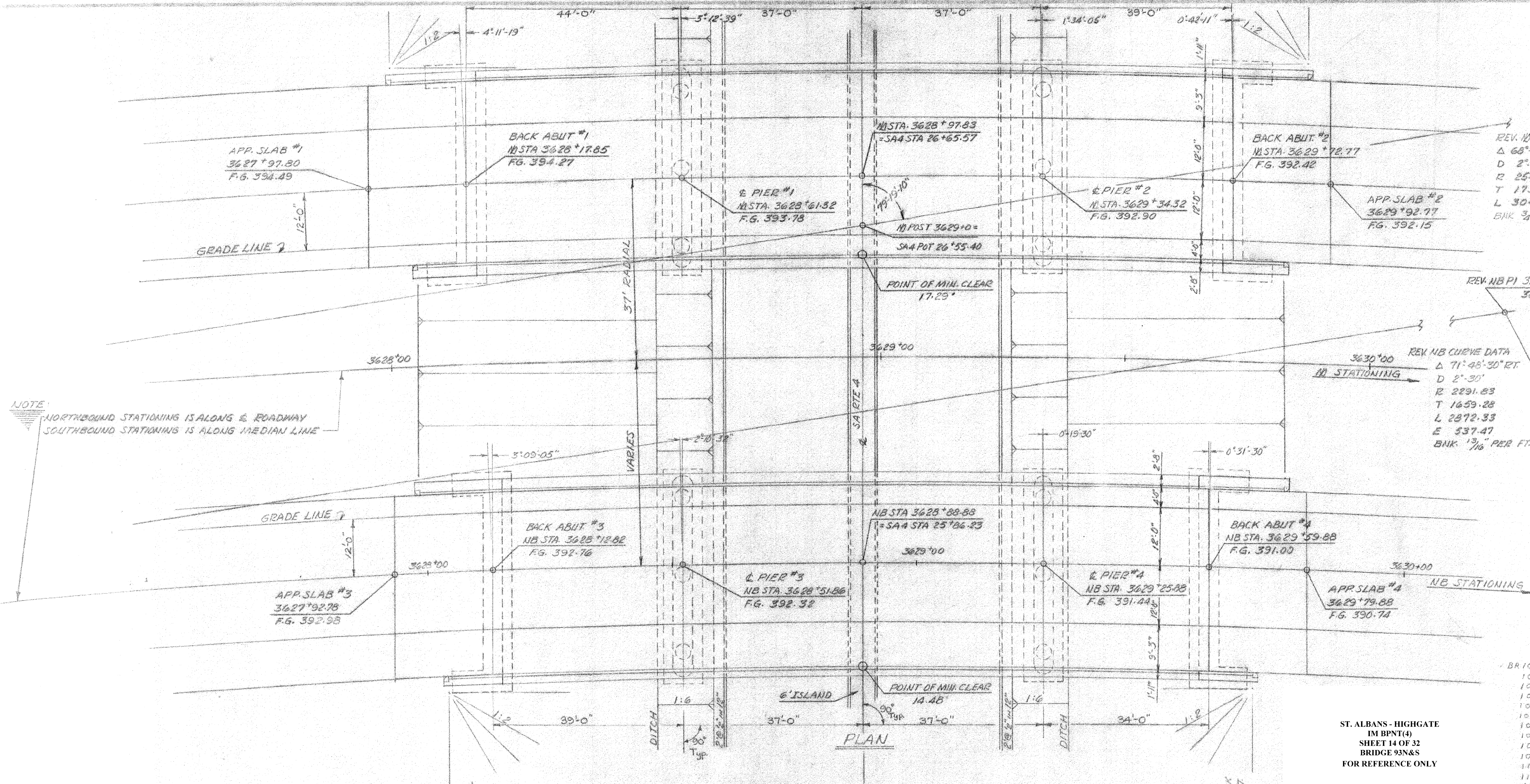
TOWN OF St. Albans - Swanton

ROUTE NO. I 89 LOG. STA. I 89 over C.V. Ry @ Sta. 3584+0

Framing Plan
 SCALE As Noted

SURVEYED BY _____
 DRAWN BY J.W. CHECKED BY D.H.B.

PROJECT NO. I 89-3(36) Cont. #1
 SHEET 10 OF 298
BR-407



MSURVEY PI
 $3642^+63.64 =$
 $3639^+46.07$

REV. 10 CURVE DATA
 $\Delta 68^{\circ}31'15'' RT.$
 $D 2^{\circ}15'$
 $R 2506.48$
 $T 1734.52$
 $L 3045.37$
 $BNK 3/4$ PER FT.

REV. NB PI $3641^+70.92 =$
 $3637^+24.69$

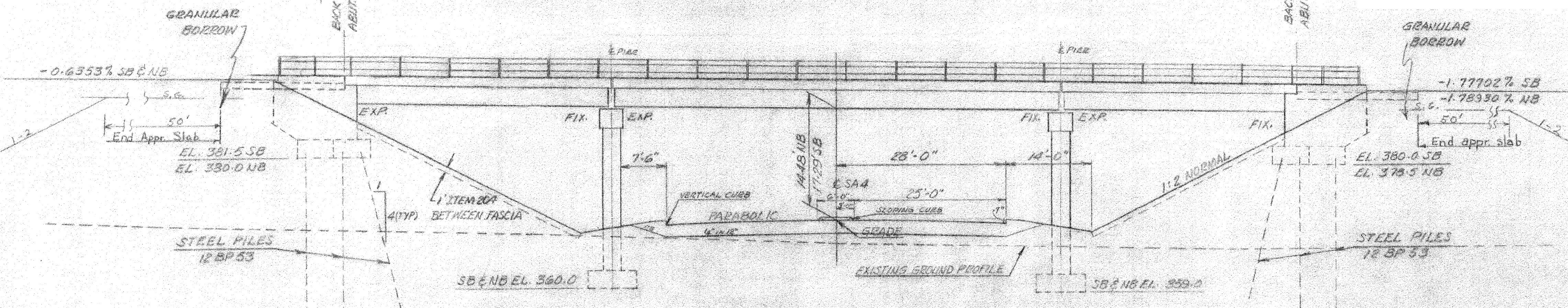
REV. NB CURVE DATA
 $\Delta 71^{\circ}48'30'' RT.$
 $D 2^{\circ}30'$
 $R 2291.63$
 $T 1659.28$
 $L 2872.33$
 $E 537.47$
 $BNK 1/16$ PER FT.

- STANDARD SHEETS
- SCB-01-65
 - SCB-02-65
 - SCB-03-65
 - SCB-04-65
 - SCB-05-65
 - SCB-06-65
 - SCB-07-65
 - SCB-08-65
 - SCB-09-65
 - SCB-10-65
 - SCB-11-65
 - SCB-12-65
 - SCB-13-65
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 - SCB-44-65
 - SCB-45-65
 - SCB-46-65
 - SCB-47-65
 - SCB-48-65
 - SCB-49-65
 - SCB-50-65

INDEX OF SHEETS

BR100	PLAN & ELEVATION
101	BRIDGE QUANTITY
102	PRELIMINARY INFORMATION
103	BORING LOG
104	FRAMING PLAN
105	ABUTMENTS 1 & 3
106	ABUTMENTS 2 & 4
107	ABUTMENTS 1 & 2 DETAILS
108	ABUTMENTS 3 & 4 DETAILS
109	PIERS 1 & 2
110	PIERS 3 & 4
111	APPROACH SLABS
112	REINFORCING SCHEDULE ABUTMENTS 1 & 2
113	REINFORCING SCHEDULE ABUTMENTS 3 & 4
114	REINFORCING SCHEDULE PIERS
115	REINFORCING SCHEDULE SUPERSTRUCTURE & APP. SLABS

ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 14 OF 32
 BRIDGE 93N&S
 FOR REFERENCE ONLY

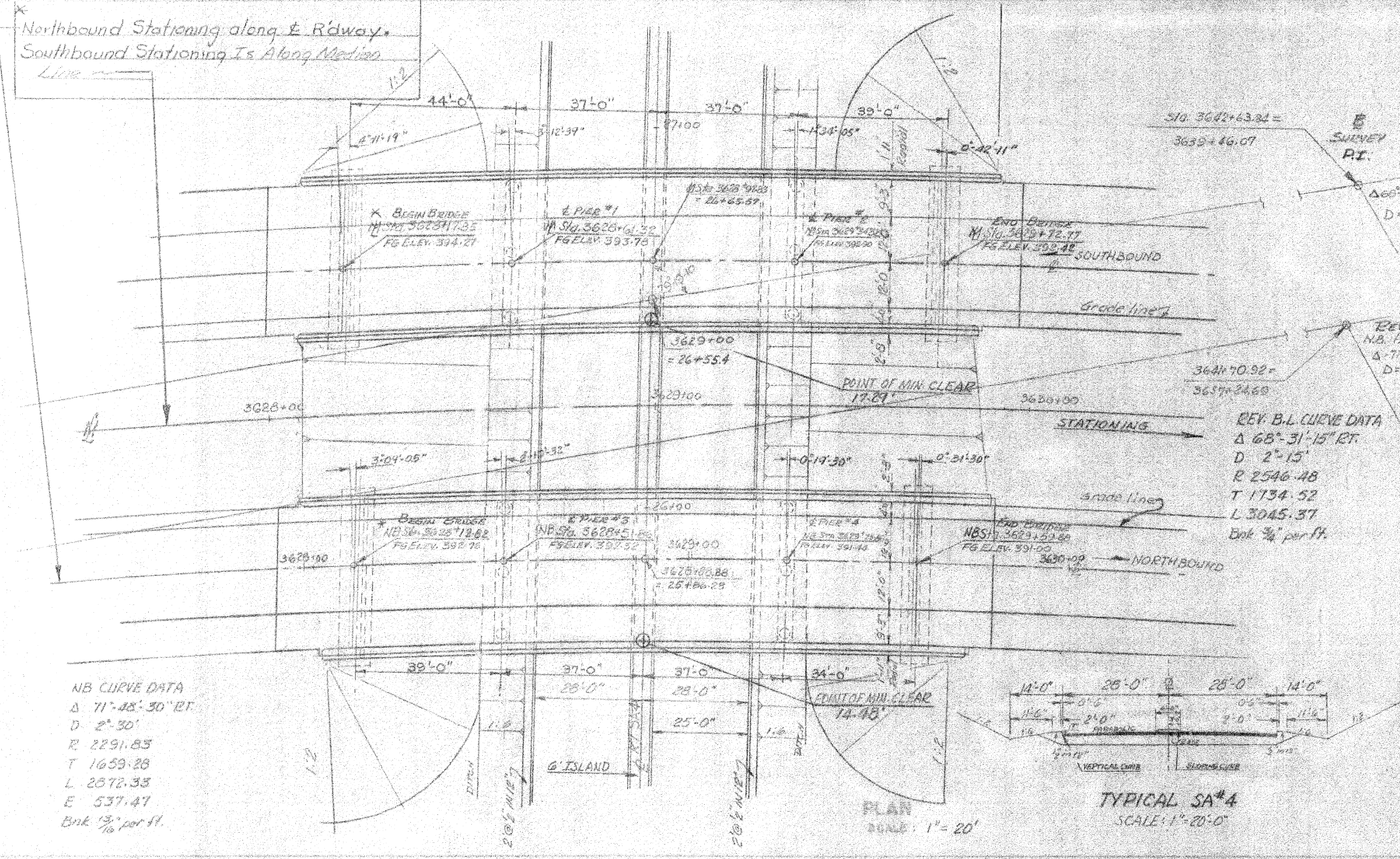
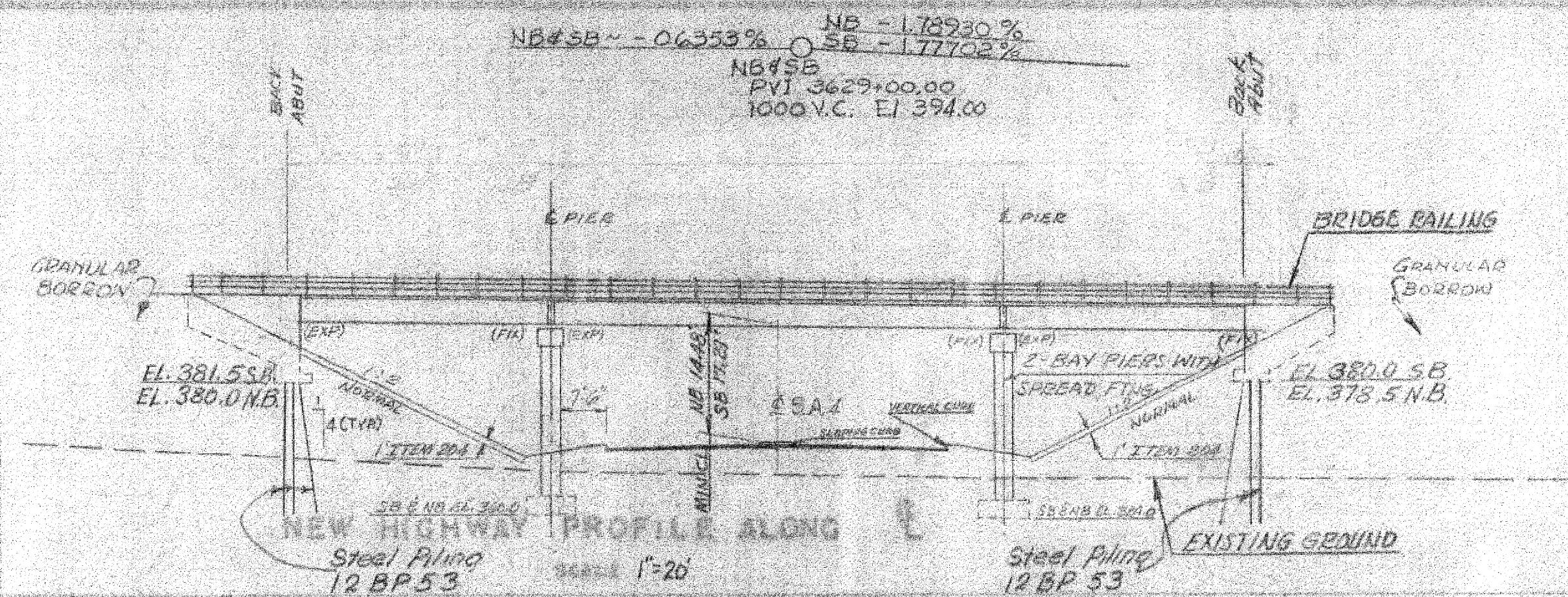
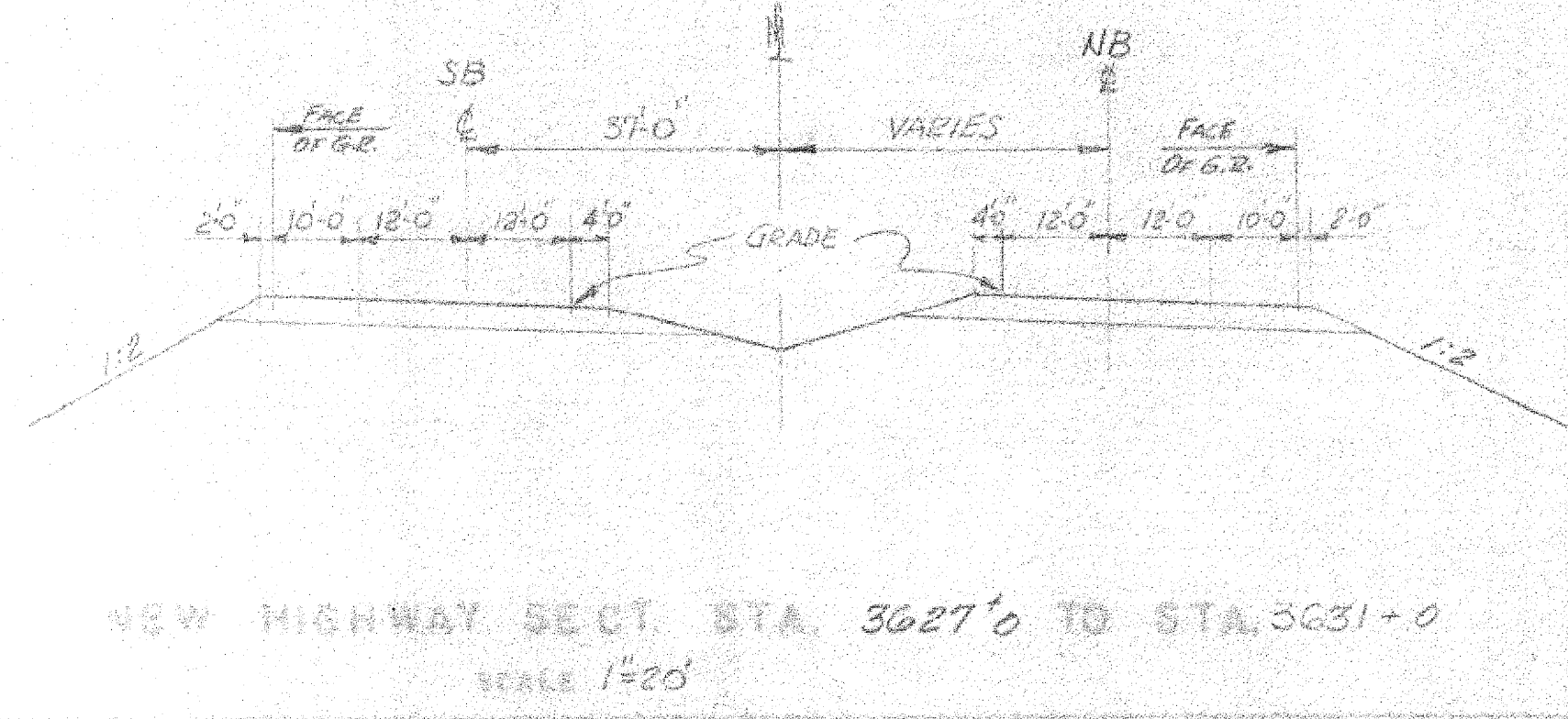


ELEVATION
 (SOUTHBOUND BRIDGE)

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

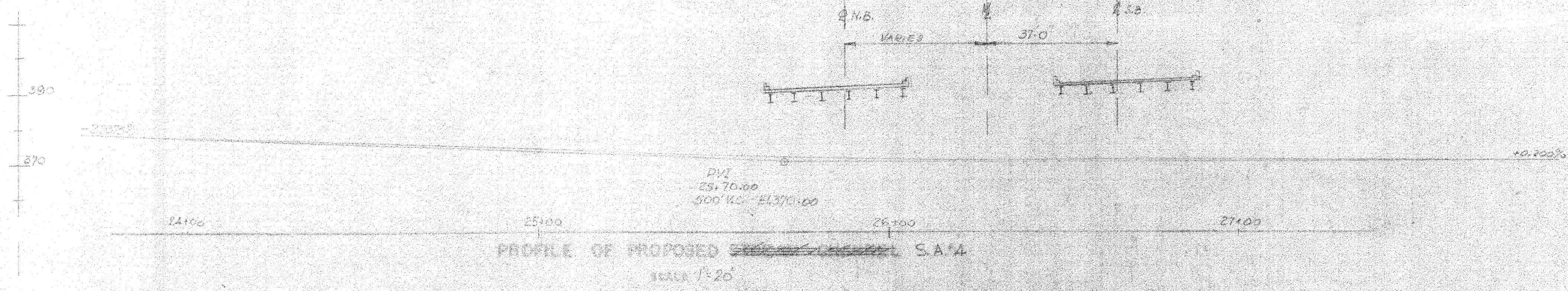
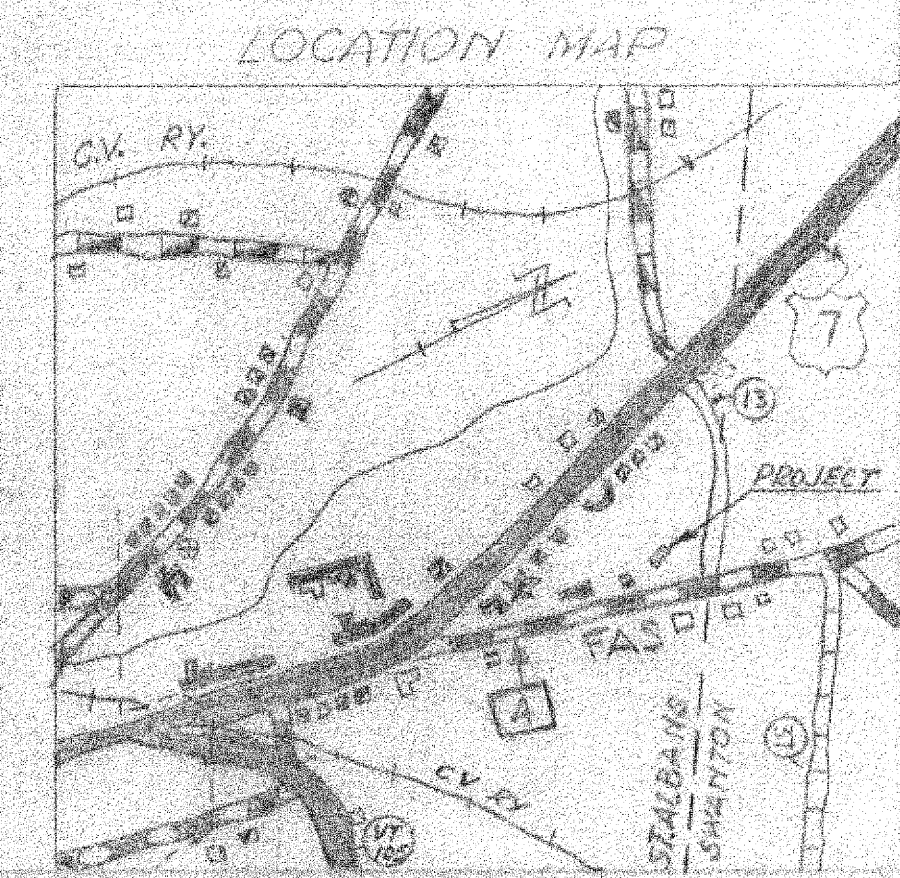
TOWN OF ST. ALBANS - SWANTON
 ROUTE NO. I-89 LOG STA.
 PLAN & ELEVATION
 INTERSTATE OVER ST. ALBANS SAA
 SCALE 3/32" = 1'-0"

SURVEYED BY
 DRAWN BY RHW CHECKED BY RTB
 PROJECT NO. I89-3
 SHEET 14 OF 32



NB CURVE DATA
 Δ 71° 48' 30" RT.
 D 2° 30'
 R 2291.85
 T 1659.28
 L 2878.35
 E 537.41
 Back $\frac{1}{10}$ per ft.

REV. B.L. CURVE DATA
 Δ 68° 31' 15" RT.
 D 2° 15'
 R 2546.48
 T 1734.52
 L 3045.37
 Back $\frac{3}{10}$ per ft.



HIGHWAY NO.	I-89	NAME OF HIGHWAY	INTERSTATE
STRUCTURE NO.		COUNTY	FRANKLIN
		TOWN	ST. ALBANS
PROJECT NO.	I-89-3 (36) CONT. #3	LOCATION	ST. ALBANS - SWANTON ~ I-89 OVER SA#4

EXISTING STRUCTURE	
1	TYPE OF EXISTING STRUCTURE
2	UNDERSTANDING OF EXISTING STRUCTURE
3	UNDERSTANDING OF EXISTING STRUCTURE
4	UNDERSTANDING OF EXISTING STRUCTURE
5	UNDERSTANDING OF EXISTING STRUCTURE
6	UNDERSTANDING OF EXISTING STRUCTURE
7	UNDERSTANDING OF EXISTING STRUCTURE
8	UNDERSTANDING OF EXISTING STRUCTURE
9	UNDERSTANDING OF EXISTING STRUCTURE
10	UNDERSTANDING OF EXISTING STRUCTURE
11	UNDERSTANDING OF EXISTING STRUCTURE
12	UNDERSTANDING OF EXISTING STRUCTURE
13	UNDERSTANDING OF EXISTING STRUCTURE
14	UNDERSTANDING OF EXISTING STRUCTURE
15	UNDERSTANDING OF EXISTING STRUCTURE
16	UNDERSTANDING OF EXISTING STRUCTURE
17	UNDERSTANDING OF EXISTING STRUCTURE
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NEW STRUCTURE	
1	RECOMMENDED TYPE OF STRUCTURE
2	RECOMMENDED CLEAR SPAN OR SPANS
3	RECOMMENDED CLEAR SPAN OR SPANS
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99	RECOMMENDED CLEAR SPAN OR SPANS
100	RECOMMENDED CLEAR SPAN OR SPANS

FOUNDATION INFORMATION

DESIGN LOAD, STRESSES, SPECIFICATIONS, SCB-D1-65
 SUPERSTRUCTURE SCB-37-65-65
 BRIDGE RAILING SB-21-64 SHEETS 162 AND SB-22-65

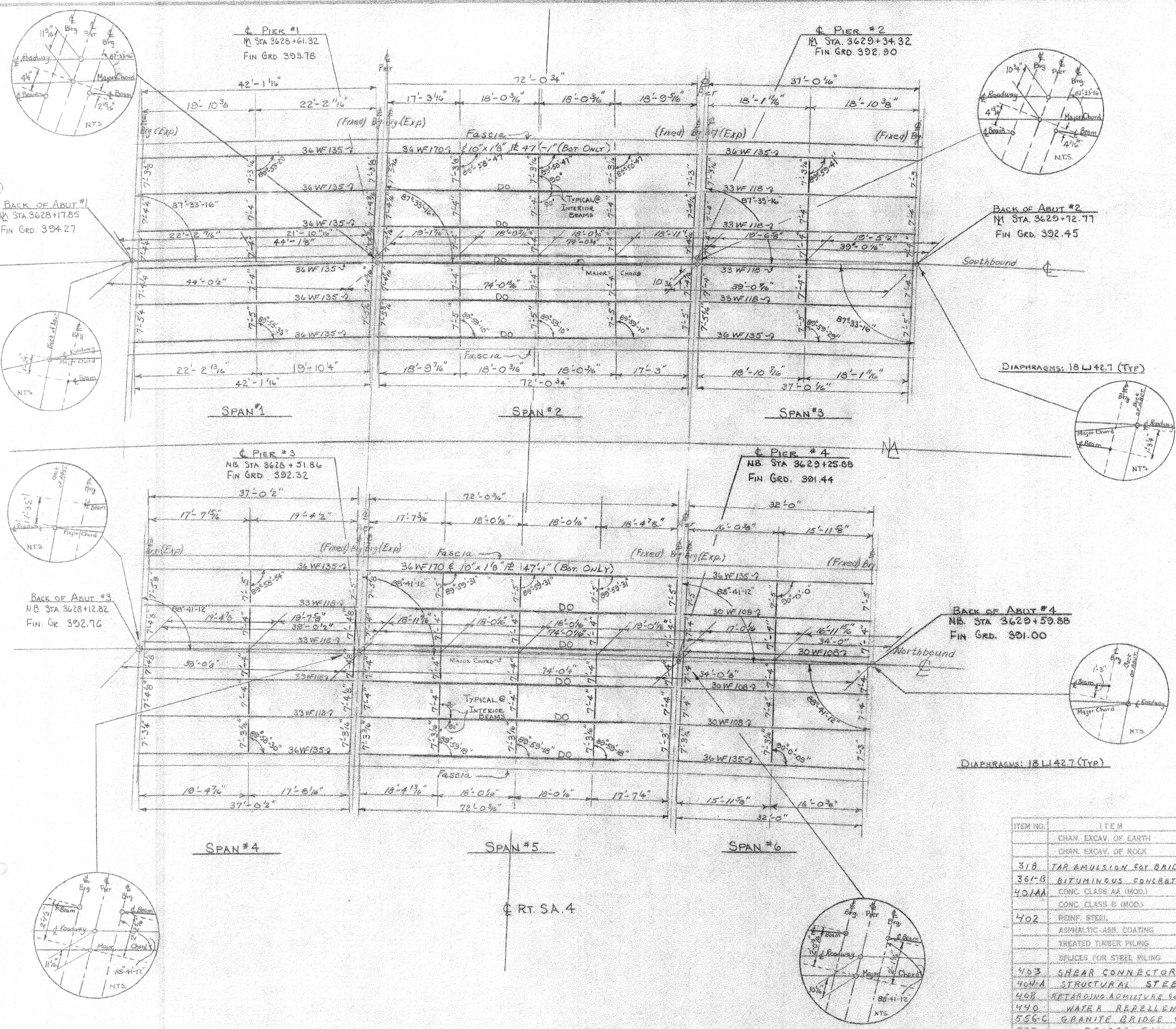
ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 15 OF 32
 BRIDGE 93N&S
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

INTERSTATE 89 IN THE TOWN OF
 ST. ALBANS - SWANTON
 ROUTE NO I-89 100 FT
 INTERSTATE OVER STALBANS SA#4

Recommended for Approval: *[Signature]* 5/27/65
 Date: 5/27/65
 Design Engineer: *[Signature]* 5/26/65
 Const. Engineer: *[Signature]* 6/2/65
 Checked by: *[Signature]*

Span Lengths & SAA Typical Changed 9-11-65 (DM)
 Rev. By: *[Signature]* Chk. By: *[Signature]* 3-17-65



GENERAL NOTES

- FOR TYPICAL SECTION SEE SCB-37.25-65. THESE STANDARDS WILL BE MODIFIED TO HAVE 36WF135 FASCIA BEAMS IN SPANS 3, 4 & 5.
- FOR ELEVATION VIEWS & SHEAR CONNECTOR DETAILS SEE SCB-D2-65.
- FOR DRAIN TROUGH DETAILS, SEE SCB-D3-65.
- FOR PLAN & REINFORCEMENT LAYOUT AT ABUTMENTS & PIERS, SEE SCB-D4-65 & SCB-D5-65.
- FOR SCUPPER & CURB DETAILS, SEE SCB-D6-65.
- FOR WF BEAM CUTOFFS & COVER PLATE DETAILS, SEE SCB-D7-65.
- FOR BEARING DEVICE DETAILS, SEE SCB-D8-65.
- FOR CURTAIN WALL DETAILS AT BEARING DEVICES, SEE SCB-D9-65.
- FOR BRIDGE RAILING DETAILS, SEE SB-R1-64, SH. 1 & 2, or SB-R2-65.
- FOR GENERAL NOTES, SEE SCB-D1-65.
- CONSTRUCT EMBANKMENT WITHIN AREA OF ABUTMENTS TO 6" ABOVE FOOTING ELEVATION, PRIOR TO DRIVING PILING. EXCAVATION OF THIS MATERIAL TO BE PAID AS STRUCTURE EXCAVATION, ITEM 109.
- THE ABUTMENTS AND PIERS ARE PARALLEL TO EACH OTHER.
- THE FOUR INTERIOR BEAMS IN EACH SPAN ARE PARALLEL TO THE MINOR CHORD.
- DIMENSIONS GIVEN FOR DIAPHRAGMS ARE HORIZONTAL DIMENSIONS FROM ϵ BEAM TO ϵ BEAM.
- MINIMUM CLEARANCE FROM REINFORCING STEEL TO FACE OF CONCRETE SHALL BE 3" IN FOOTINGS AND 2" ELSEWHERE, EXCEPT WHERE DETAILED OTHERWISE.
- WATER REPELLENT-ITEM 440 SHALL BE APPLIED TO TOP OF SAFETY WALKS, FASCIA, AND BACK TO DRIP BEAD UNDER THE SLAB.

ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 16 OF 32
BRIDGE 93N&S
FOR REFERENCE ONLY

ITEM NO.	ITEM	UNIT	NET	TOTAL	FINAL
	CHAN. EXCAV. OF EARTH	C.Y.			AB
	CHAN. EXCAV. OF ROCK	C.Y.			
318	TAR EMULSION FOR BRIDGE FLOORS	GAL		506	
361-B	BITUMINOUS CONCRETE PAVEMENT	TON		116	
401AA	CONC. CLASS AA (MOD.)	C.Y.		324	300
	CONC. CLASS B (MOD.)	C.Y.			
402	REINF. STEEL	LBS		97,852	96,498
	ASPHALTIC-ABS. COATING	S.Y.			
	TREATED TIMBER PILING	L.F.			
	SPICES FOR STEEL PILING	EA.			
403	SHEAR CONNECTORS	L.S.		4000	1
404A	STRUCTURAL STEEL	L.B.		736,870	341,400
408	RETARDING ADJUSTURE FOR CONCRETE	#1/cy		384	0
440	WATER REPELLENT	GAL		374	312
556C	GRANITE BRIDGE CURB	L.F.		776	701
572	BRIDGE RAILING	L.F.		714	714

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF ST. ALBANS-SWANTON

ROUTE No. I-89 BRIDGE No. _____

FRAMING PLAN

I-89 OVER S.A. 4

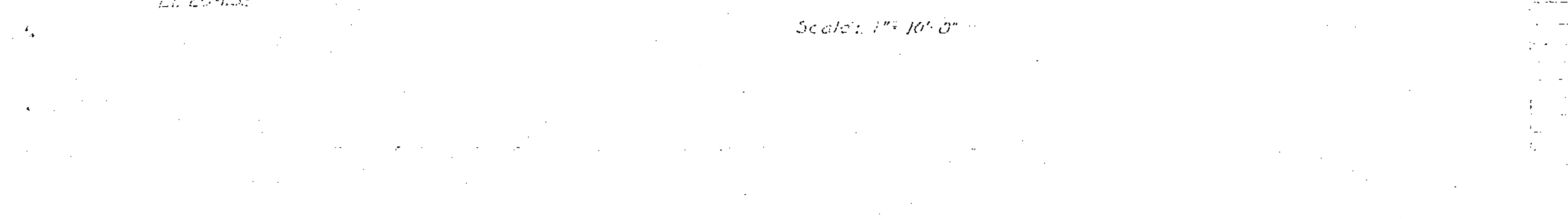
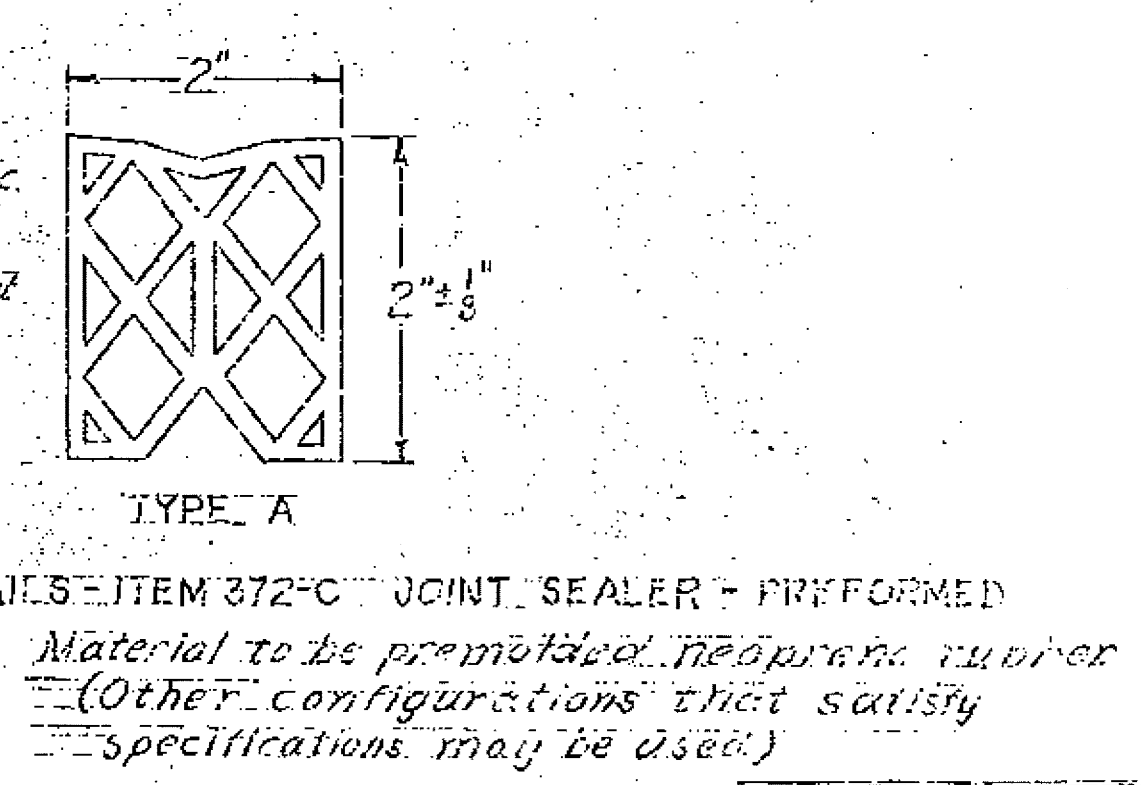
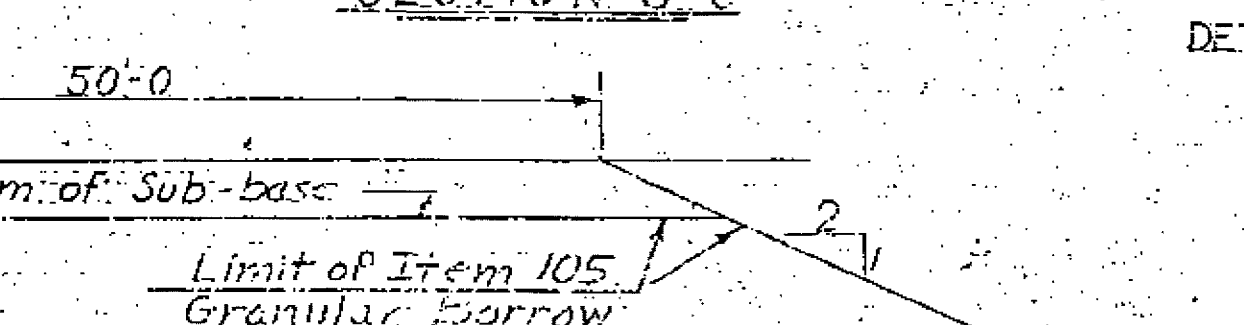
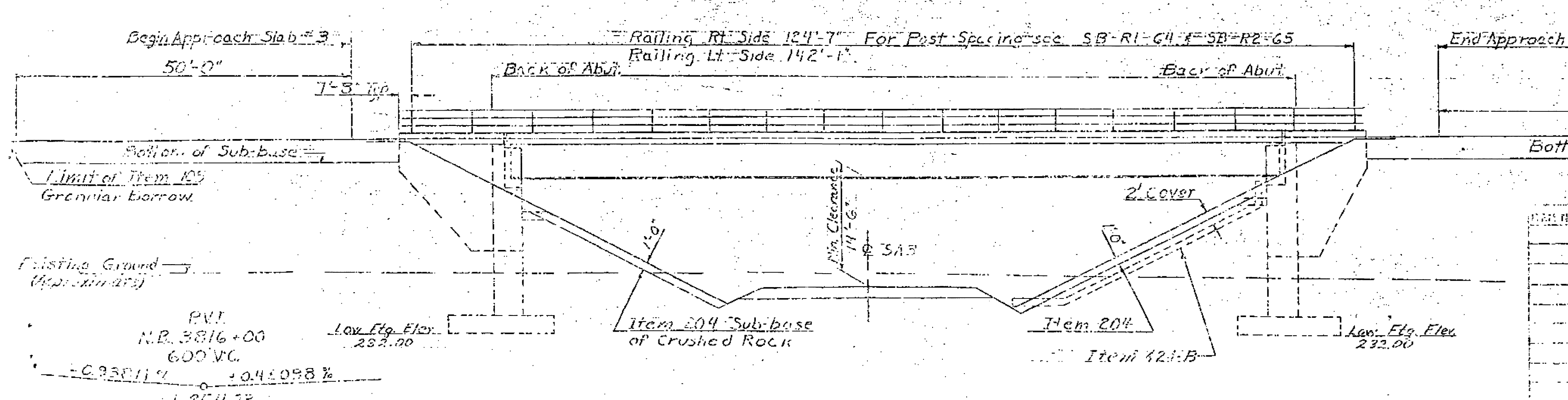
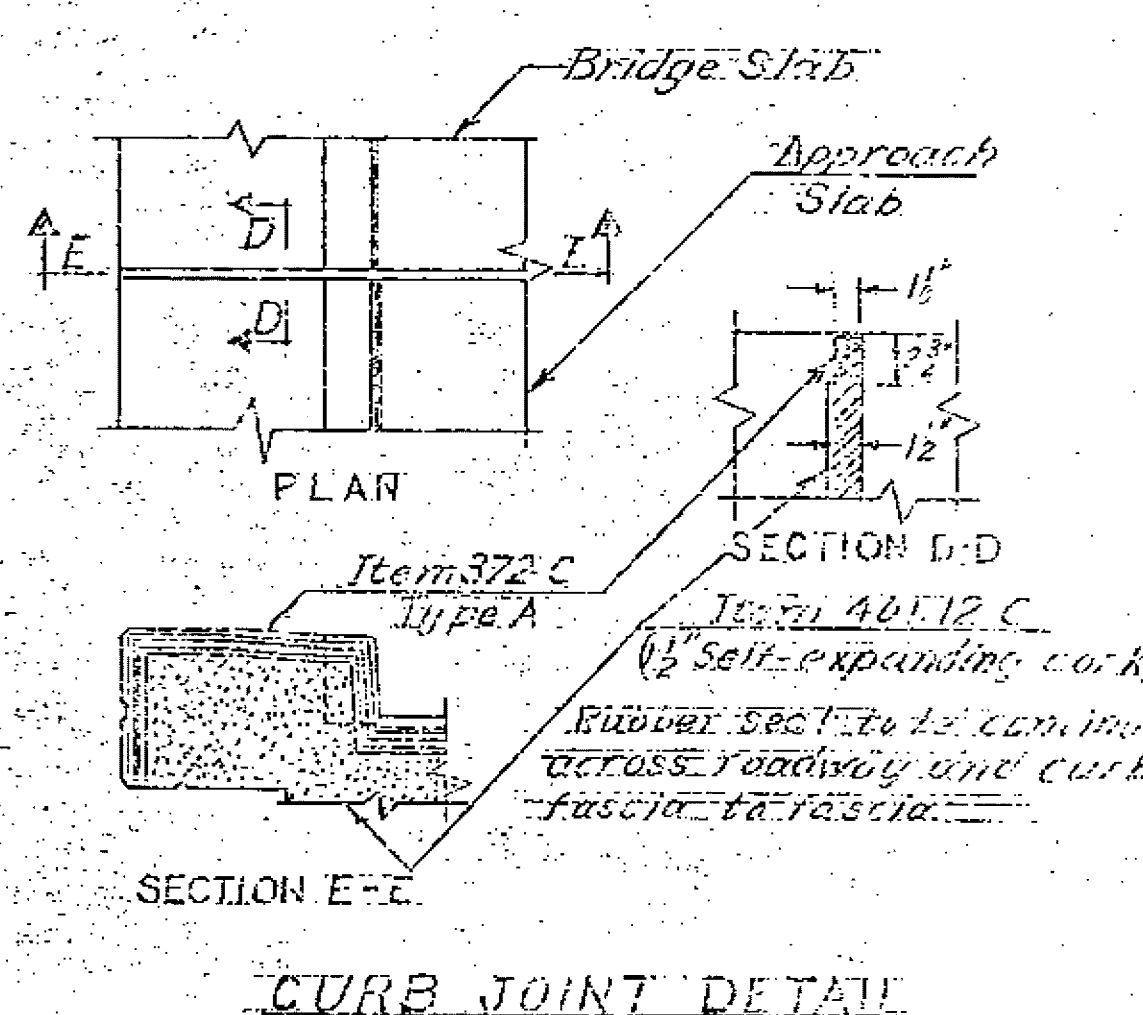
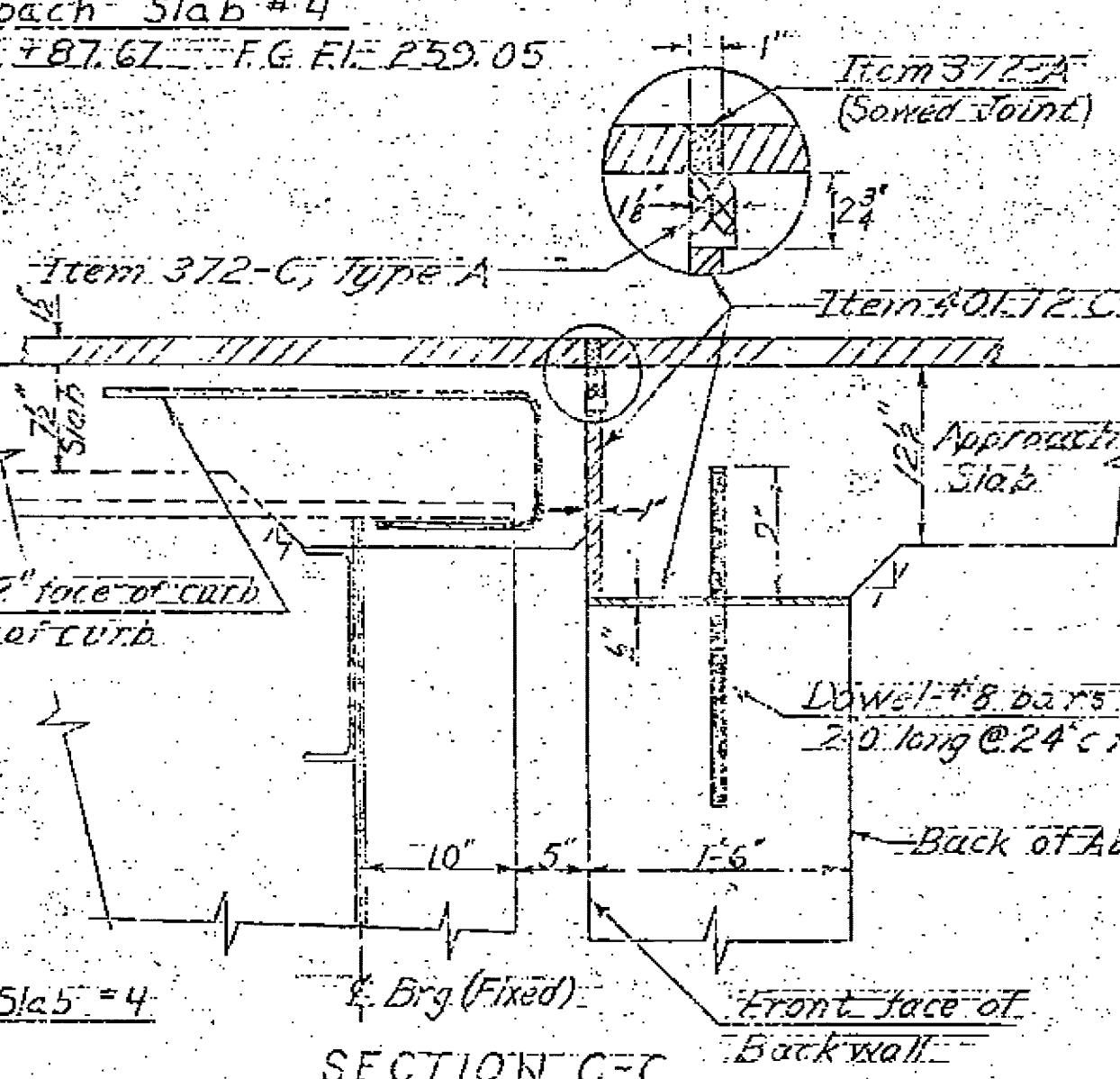
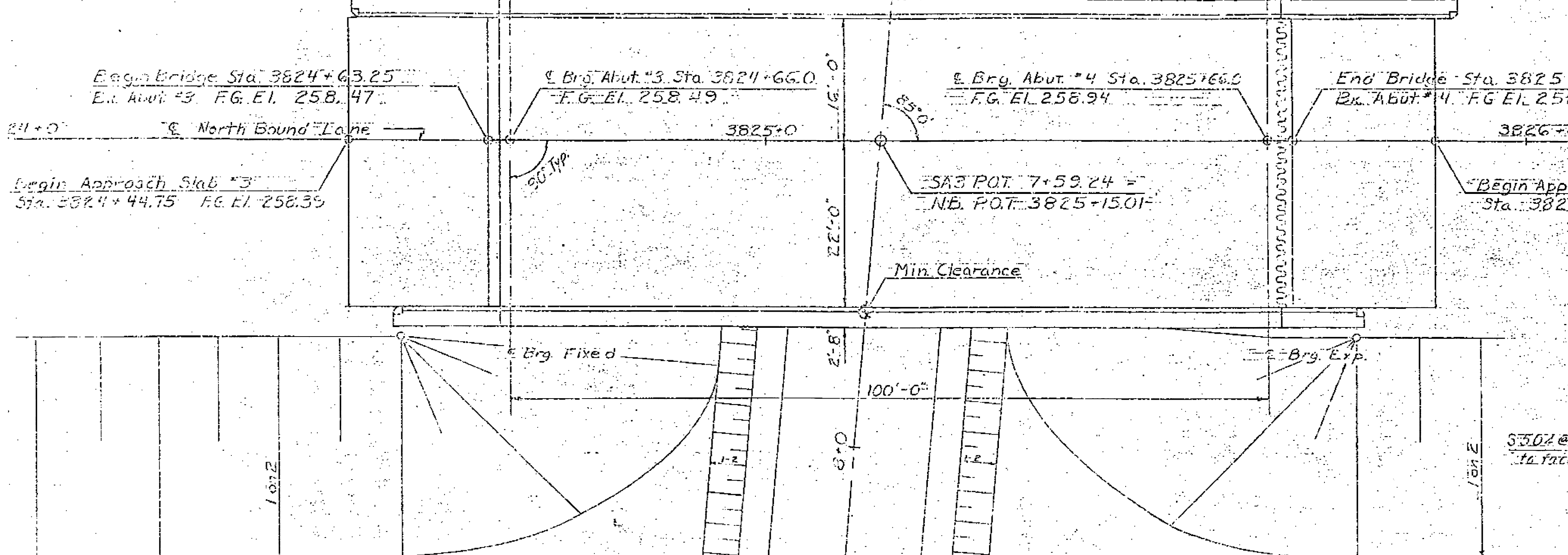
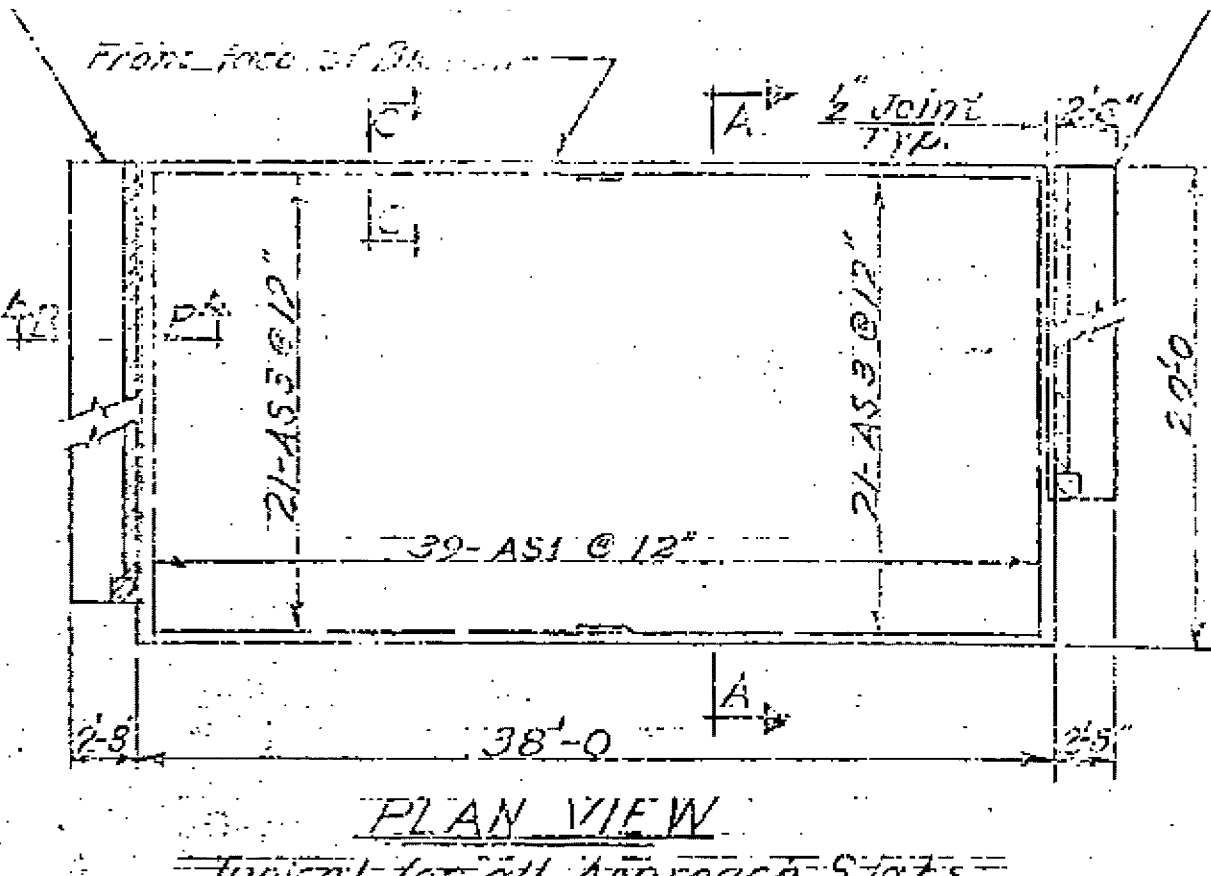
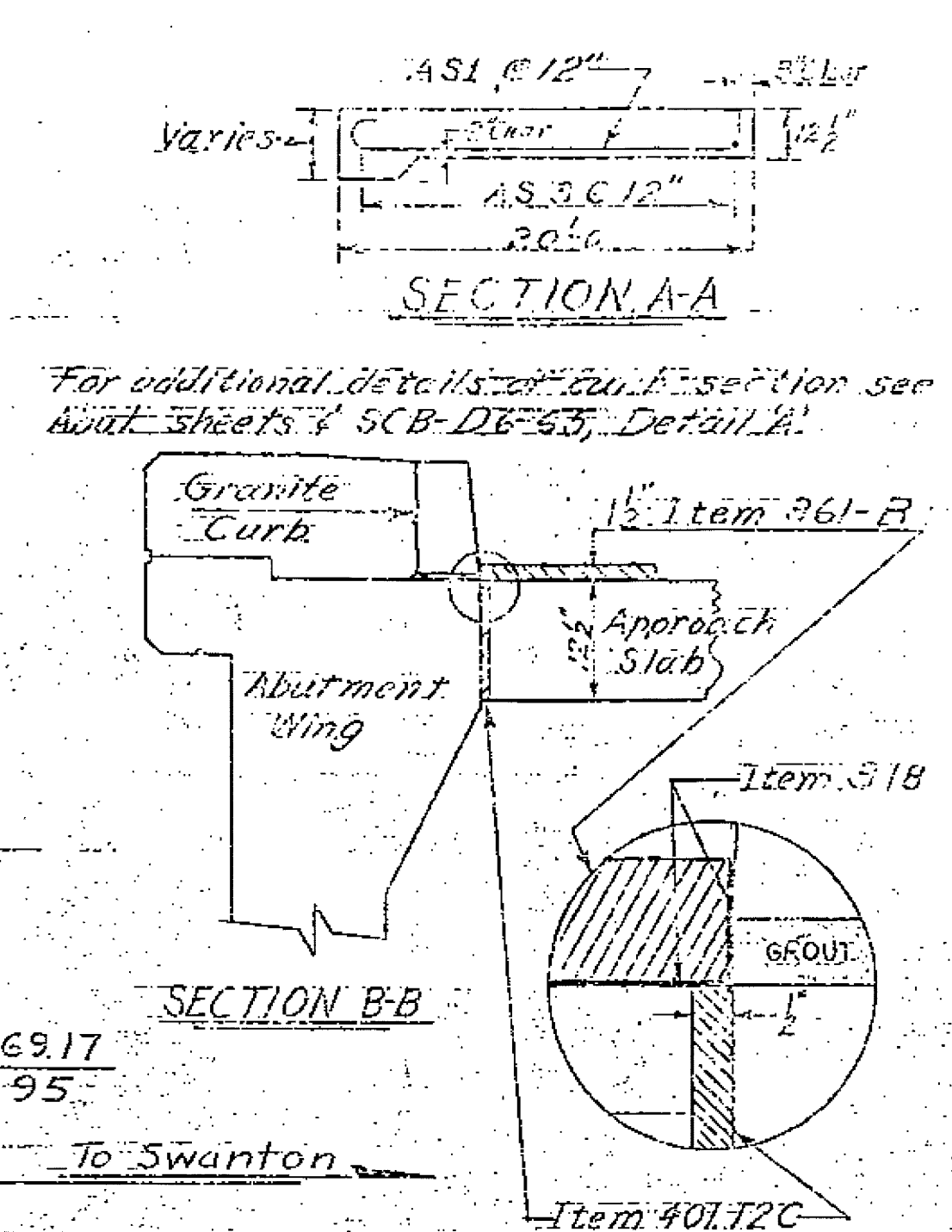
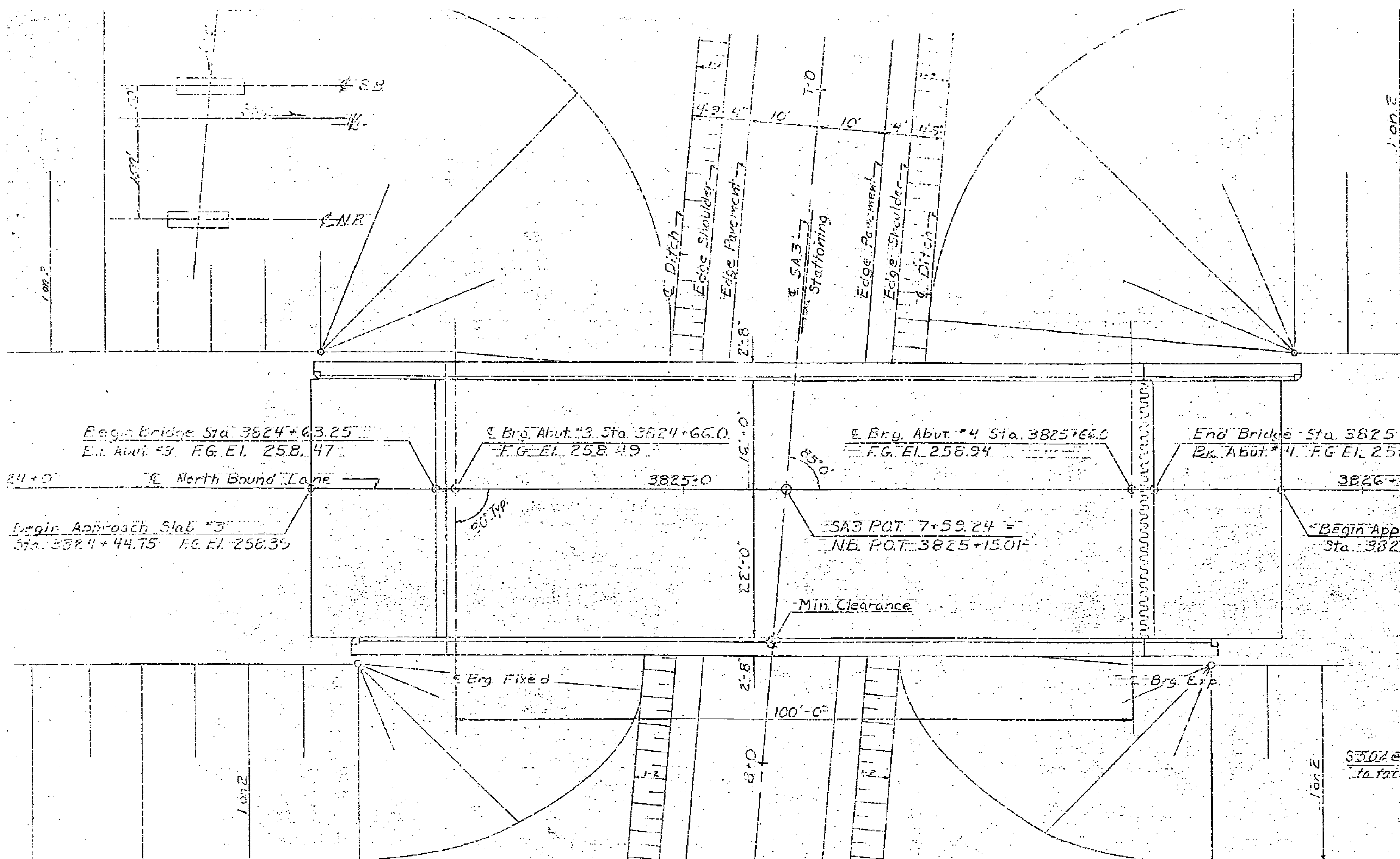
SCALE NOT TO SCALE

SURVEYED BY _____

DRAWN BY JGC/REA CHECKED BY SNA/LP/M

PROJECT No. I89-3(36) Cont 2

SHEET 68 OF 412 - BR104



ITEM	UNIT	NET	TOTAL	FINAL
CHAS. EXPOS. OF CURB	C.Y.			
CHAS. EXPOS. OF FACE	C.Y.			
INCLOS. GRAN. EXPOS.	C.Y.			
STRUT EXPOS.	C.Y.			
CONC. CLASS AA BRIDG.	C.Y.			
CONC. CLASS B BRIDG.	C.Y.			
IRON SINK	LBS.			
PREPARED ASP. CONC.	S.F.			
TREATER	L.F.			
STAINLESS STEEL	S.F.			
BRICK	S.F.			
CONCRETE	C.Y.			

BR 201 OF 214 Revised Footings 5-13-66

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

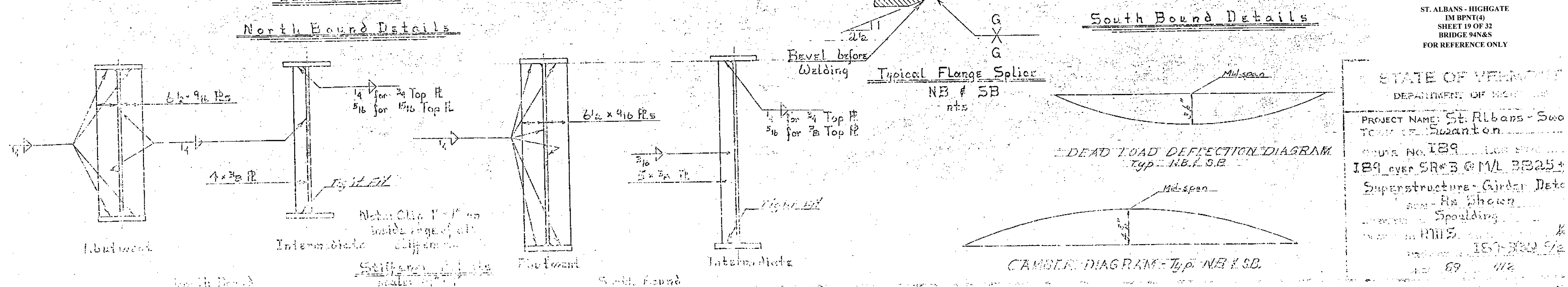
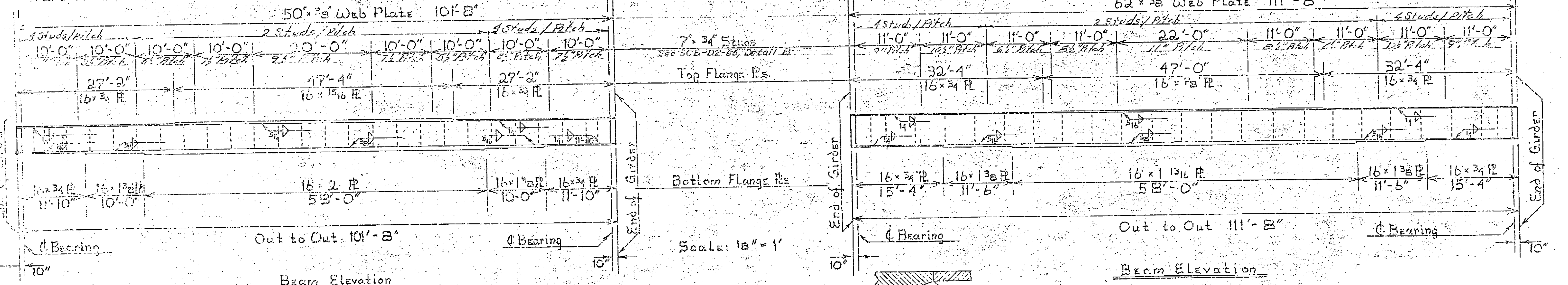
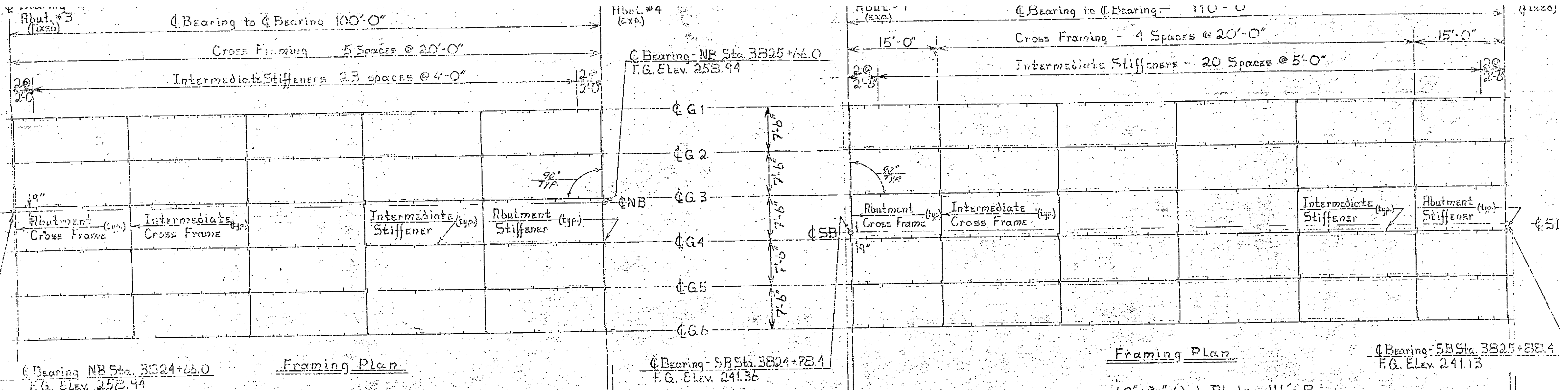
PROJECT NAME: ST. ALBANS-SWANTON
TOWN OF SWANTON

ROUTE NO. 1-89
1-89 OVER S.A. 3 @ MILE STA. 3025+15

NET PLAN (SEE) APPROACH SLAB (SEE) DETAIL A

SCALE: 1" = 10'-0"

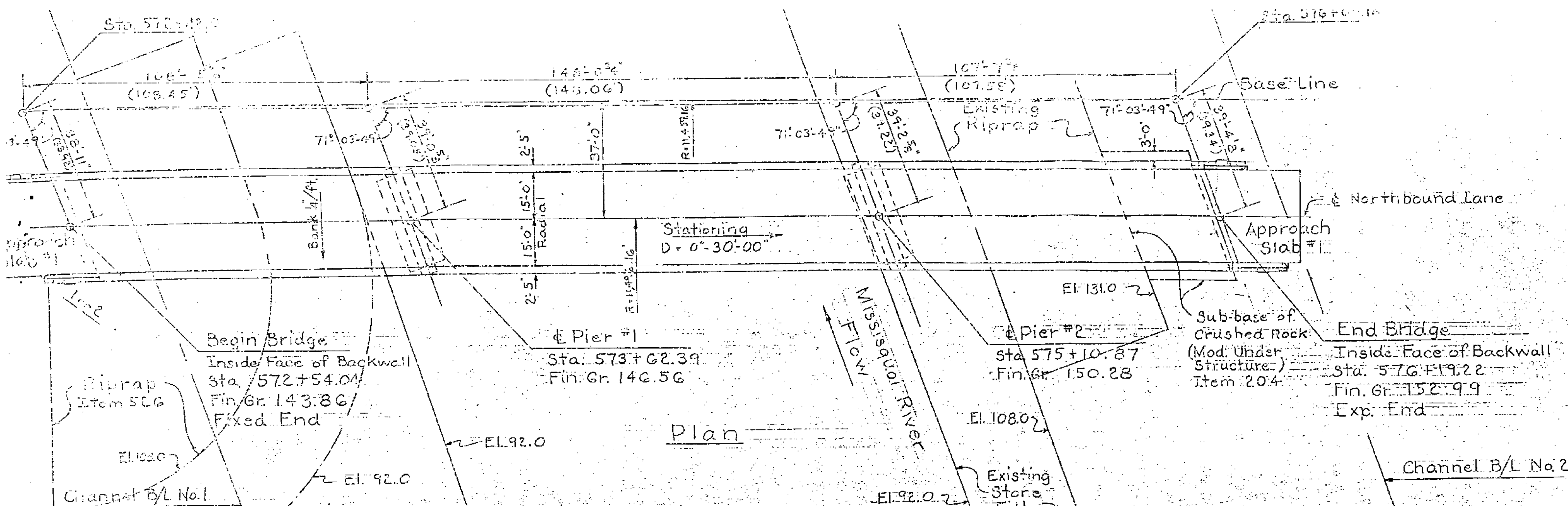
ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 18 OF 32
BRIDGE 94N&S
FOR REFERENCE ONLY



ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 19 OF 32
 BRIDGE 94N&S
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF TRANSPORTATION
 PROJECT NAME: St. Albans - Swanton
 Route No. 129
 129 over SR#3 @ ML 3825+
 Superstructure - Girder Date
 Spaulding
 157-300 5/2
 89 112

T-89 BR # 94 N&S



Plan

List of Bridge Sheets

- BR 200 Superstructure Plan & Elevation
- BR 201 Bridge Quantity Sheet
- BR 202 Preliminary Information
- BR 203 Easings
- BR 204 Framing and Railing Plan
- BR 205 Details of Abutment #1
- BR 206 Details of Abutment #2
- BR 207 Details of Pier #1
- BR 208 Details of Pier #2
- BR 209 Approach Slab #1
- BR 210 Approach Slab #2
- BR 211 Reinforcing Steel Schedule
- BR 212-216 Channel Sections

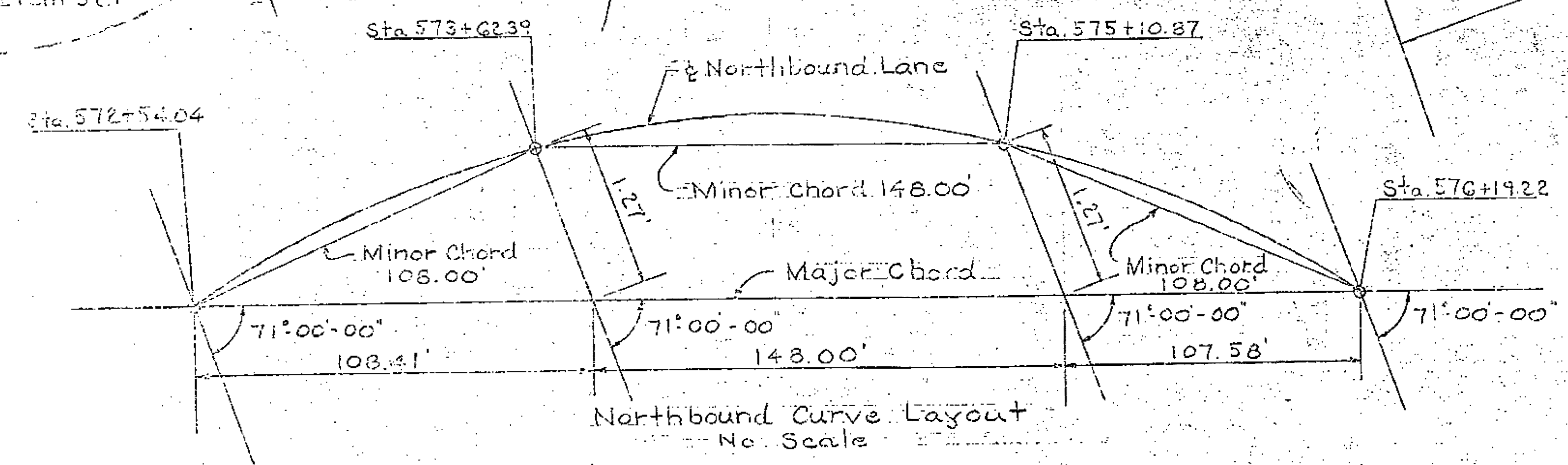
- Bridge Standards
- SCWPG-30-02 Sheets 1-4
 - SB-56-02 Sheets 1&2
 - SCB-02-02, SCB-06-02

Reference Sheets

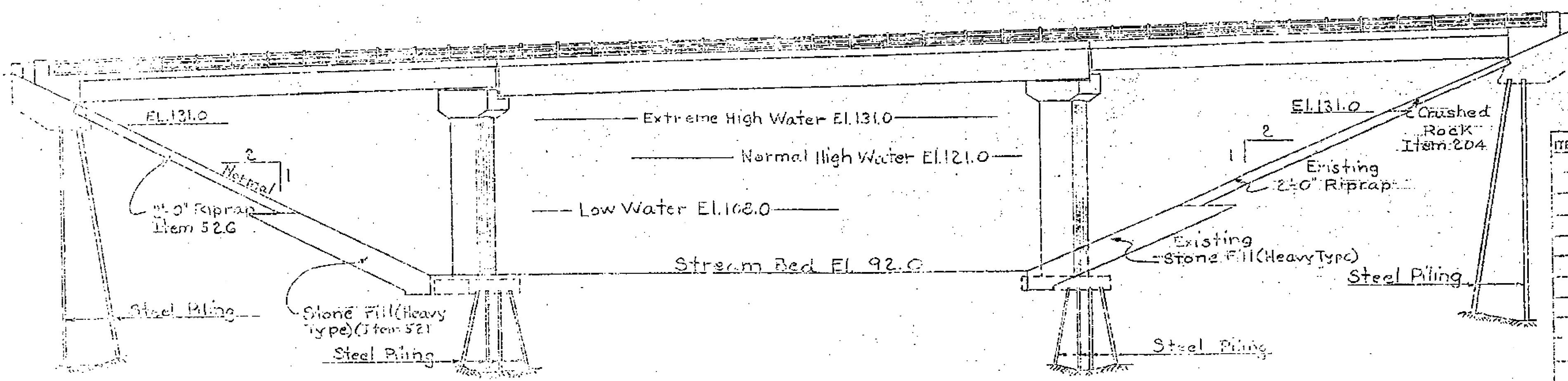
- Interstate Plan (Scale 1"=50')
- Interstate Profile

Notes

1. For General Notes see Pier #1 sheet.
2. Superstructure to be as per Std. SCWPG-30-02
3. Bridge railing to be as per Std. SB-56-02 Sh.
4. Bridge curb to be as per Std. SCB-06-02.
5. Railing posts to be set normal to grade.
6. For summary of quantities see Bridge Quantity Sheet.
7. All girders parallel to minor chords.
8. Stations are true length only along sun line.



Northbound Curve Layout
No. Scale

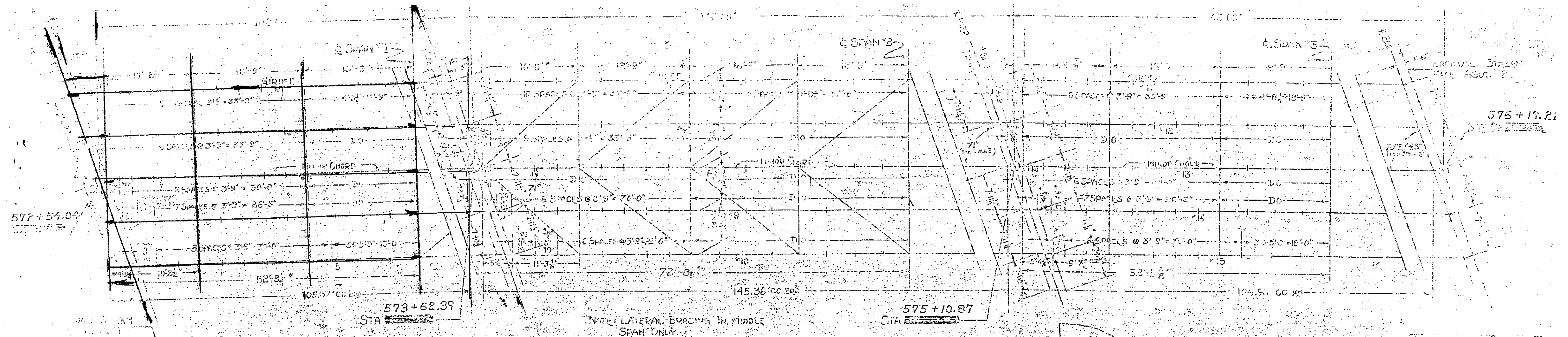


Elevation

ITEM NO.	ITEM	UNIT	NET	TOTAL	FINAL
	CHAN. EXCAV. OF EARTH	C.Y.			
	CHAN. EXCAV. OF ROCK	C.Y.			
	UT. CLASS. CHAN. EXCAV.	C.Y.			
	STRUCT. EXCAV.	C.Y.			
	CONC. CLASS. AA (MOD.)	C.Y.			
	CONC. CLASS. B (MOD.)	C.Y.			
	STEEL	LB.			
	ASPHALT FIBER COATING	S.Y.			
	CRUSHED ROCK (ITEM 204)	C.Y.			
	EXISTING 24" RИPRAР	C.Y.			
	EXISTING STONE FILL (HEAVY TYPE)	C.Y.			
	STEEL PILING	LB.			

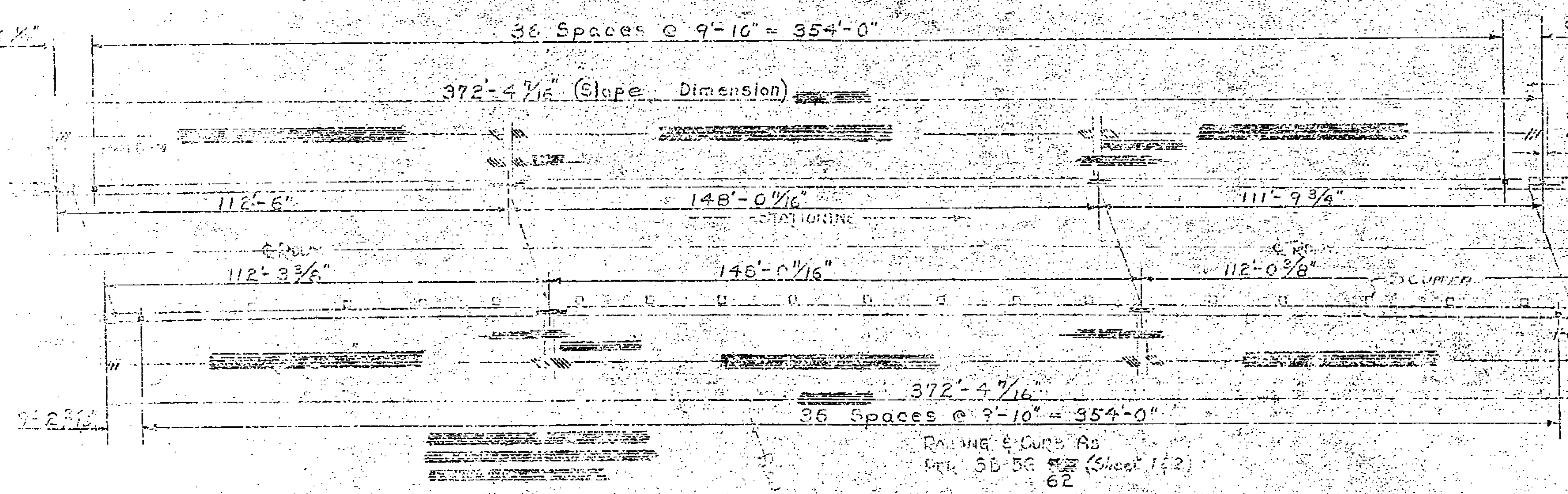
ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 20 OF 32
BRIDGE 96N&S
FOR REFERENCE ONLY

STATE OF MISSISSIPPI
DEPARTMENT OF TRANSPORTATION
TOWN OF Swanton - Highgate
ROUTE NO. 189
Missisquoi River Bridge No. 1
Superstructure Plan & Elevation
SCALE: 1" = 20'
DESIGNED BY Webster Martin
CHECKED BY A.J.C.
DATE 11/10/00
BR-200-01-210



FRAMING PLAN

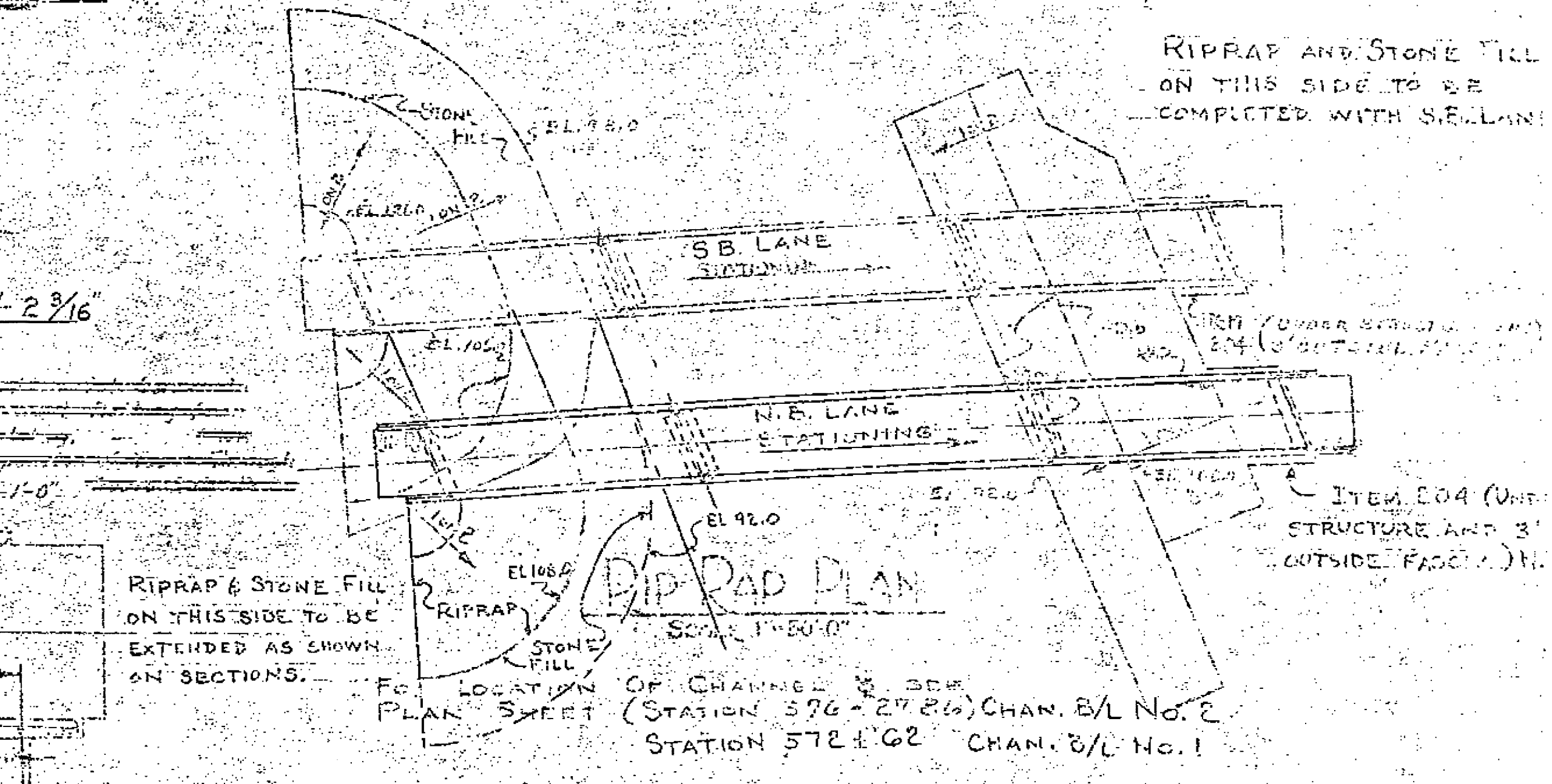
NOTE: LATERAL BRACING IN MIDDLE SPAN ONLY.



DETAILS OF RAILING SPACING

RAILING SPACING FOR Galvanized Metal
 Railing lengths given are slope dimensions
 * Items to be included in Roadway Quantities:

NO.	ITEM	UNIT	NET	FINAL
* 372-A	Joint Section	LF	100	100
* 373	End Section	LF	100	100



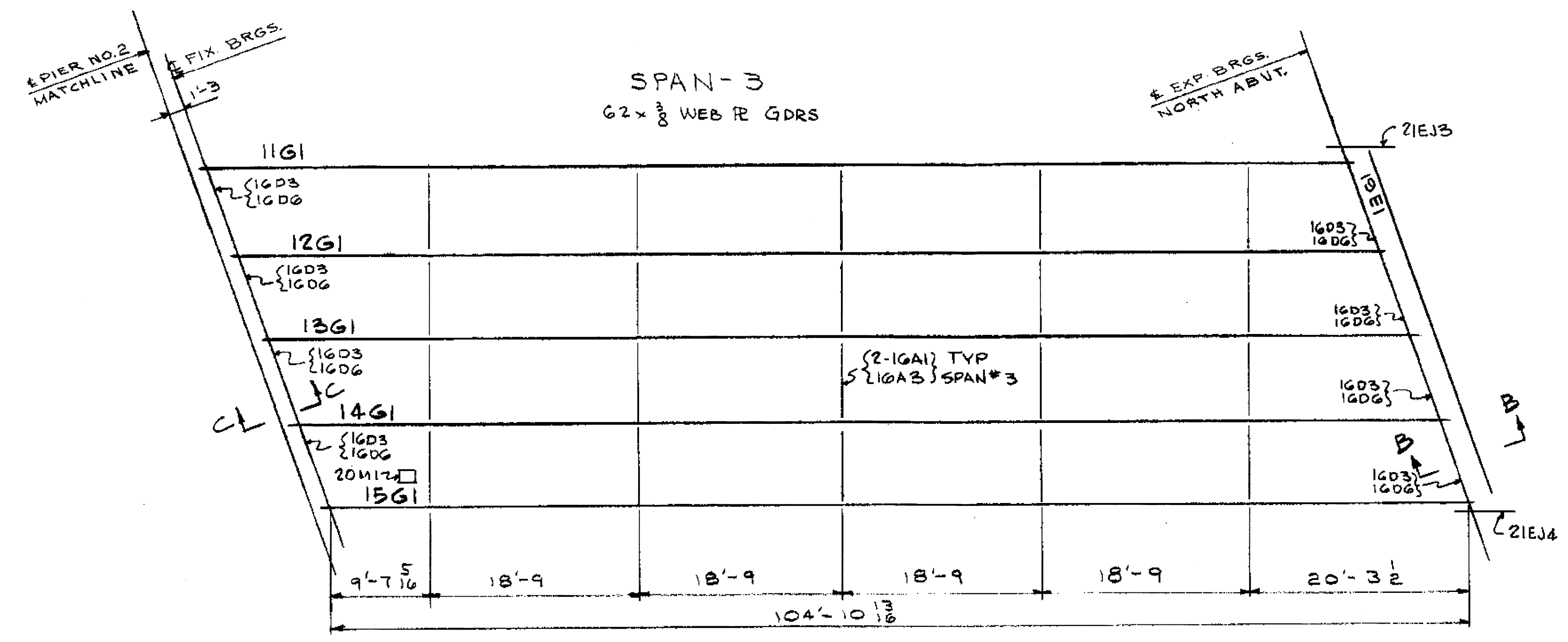
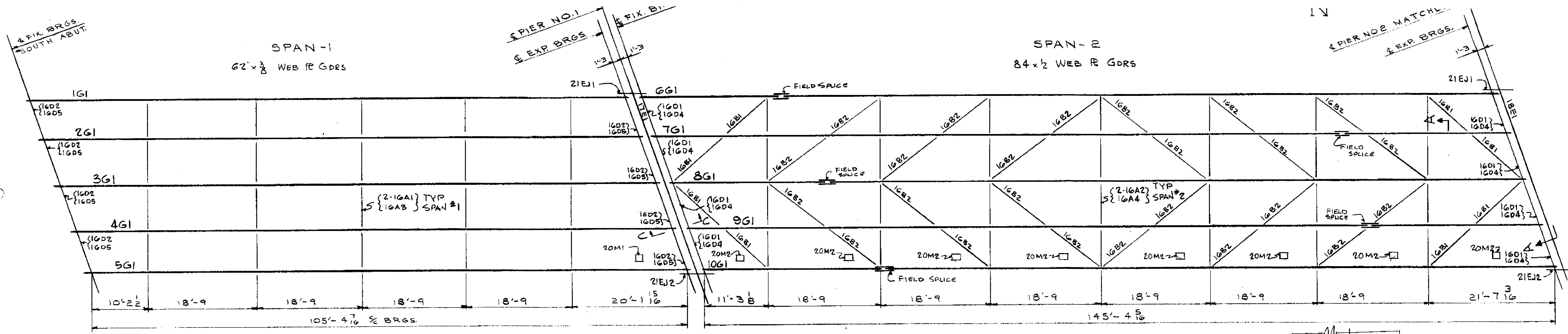
9'-2 1/4" Superstructure Quantities (NB)

ITEM NO.	DESCRIPTION	UNIT	NET	FINAL
100	CONCRETE	CU YD		
101	STEEL	TON		
102	WOOD	CU YD		
103	GRAVEL	CU YD		
104	STONE	CU YD		

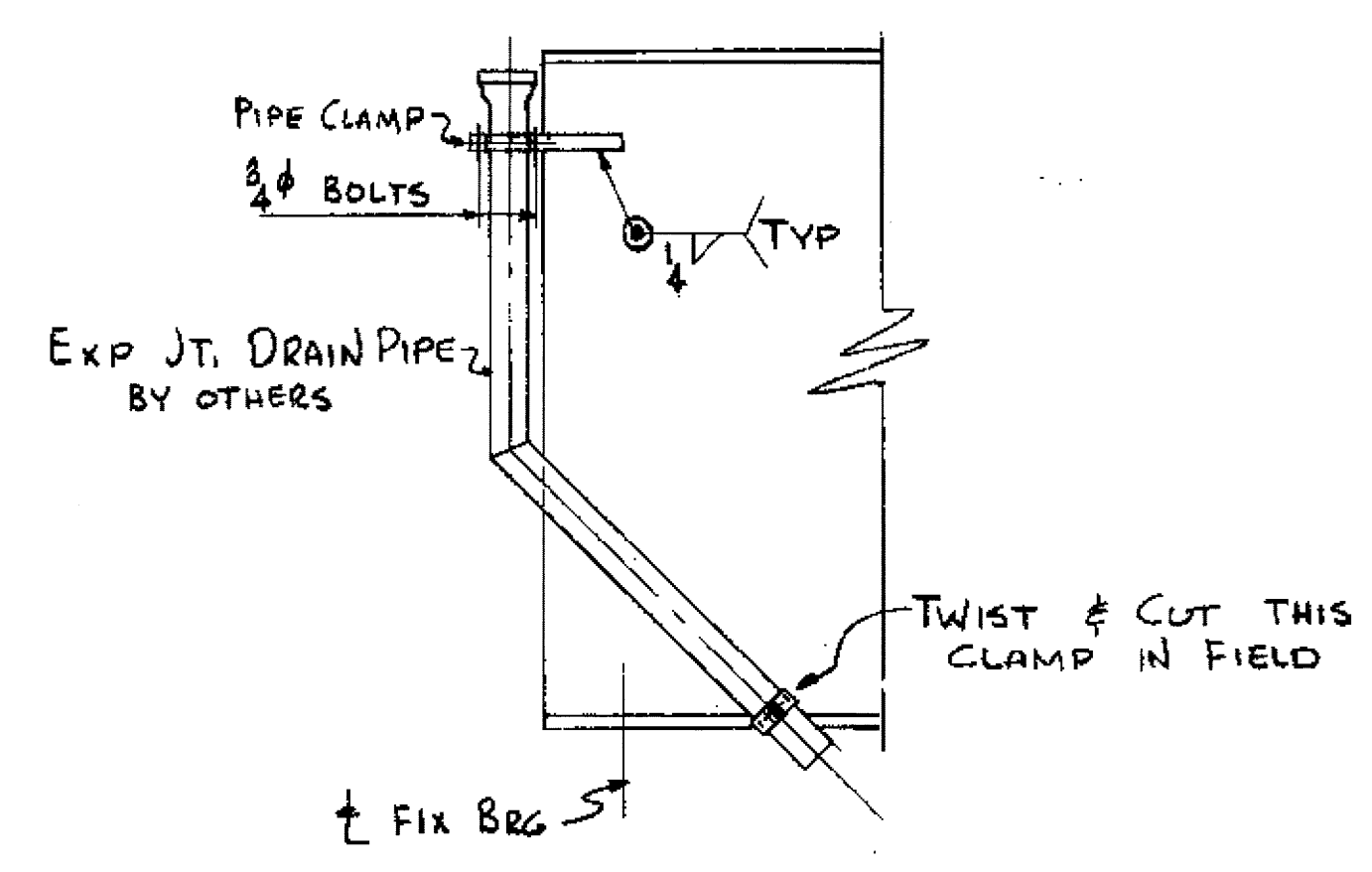
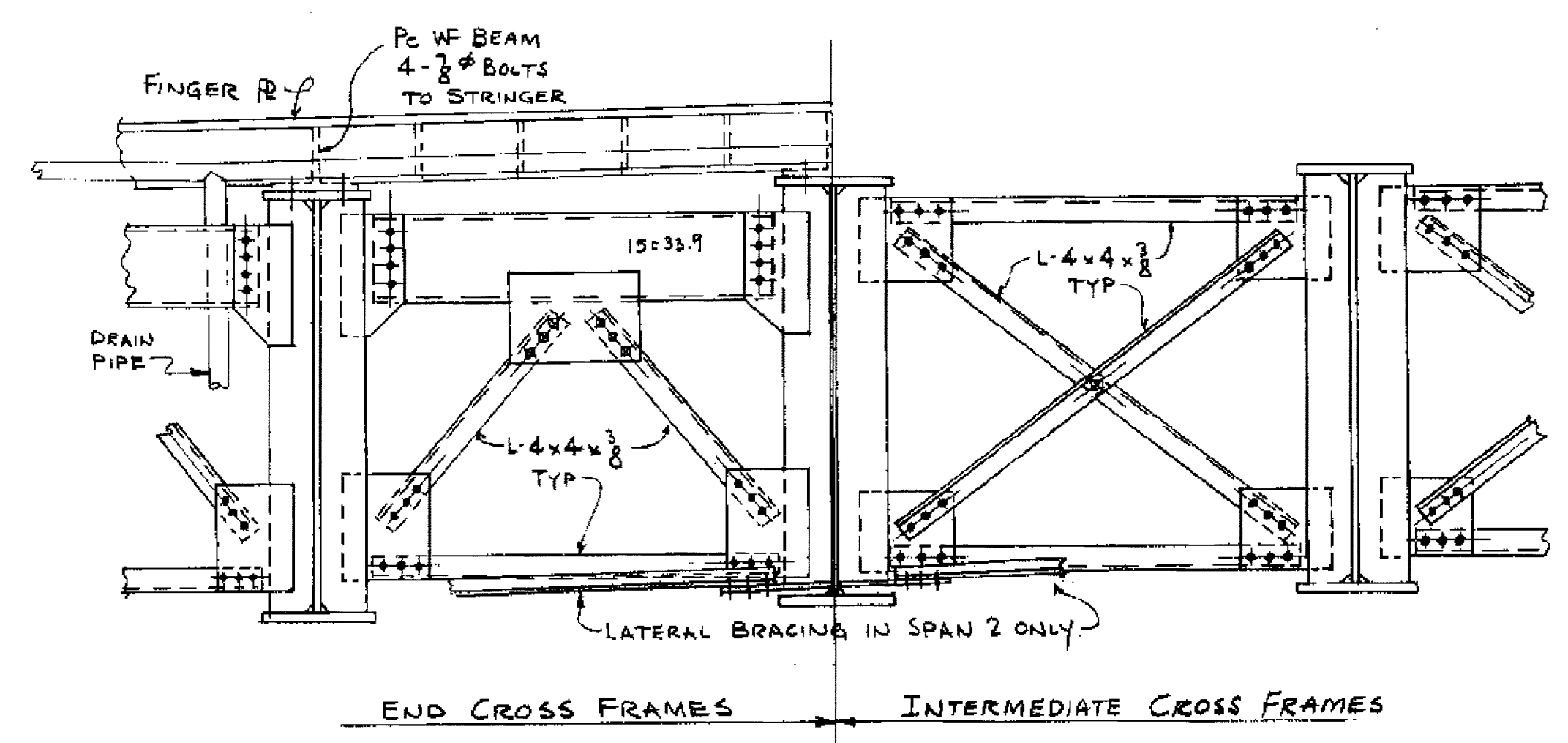
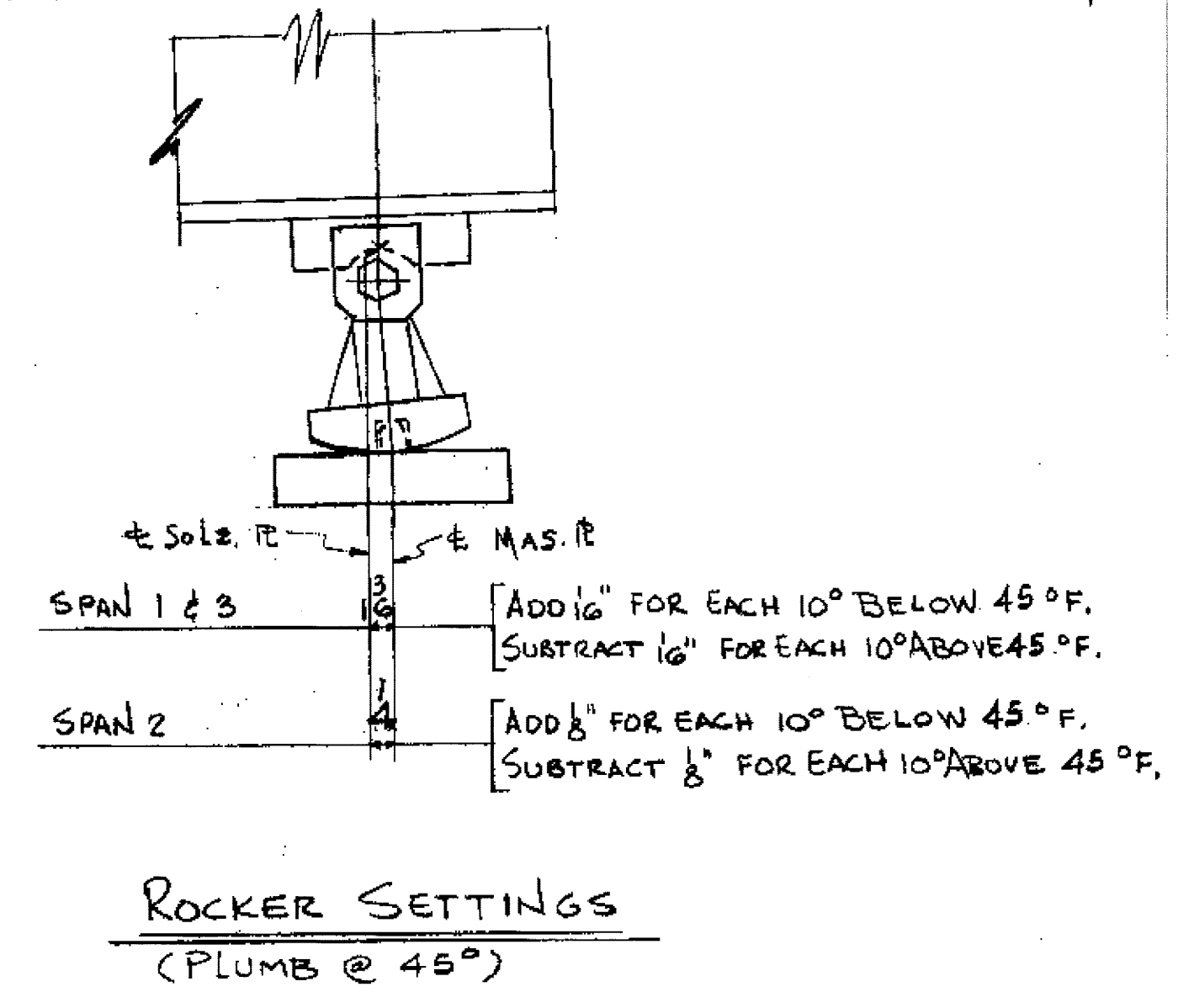
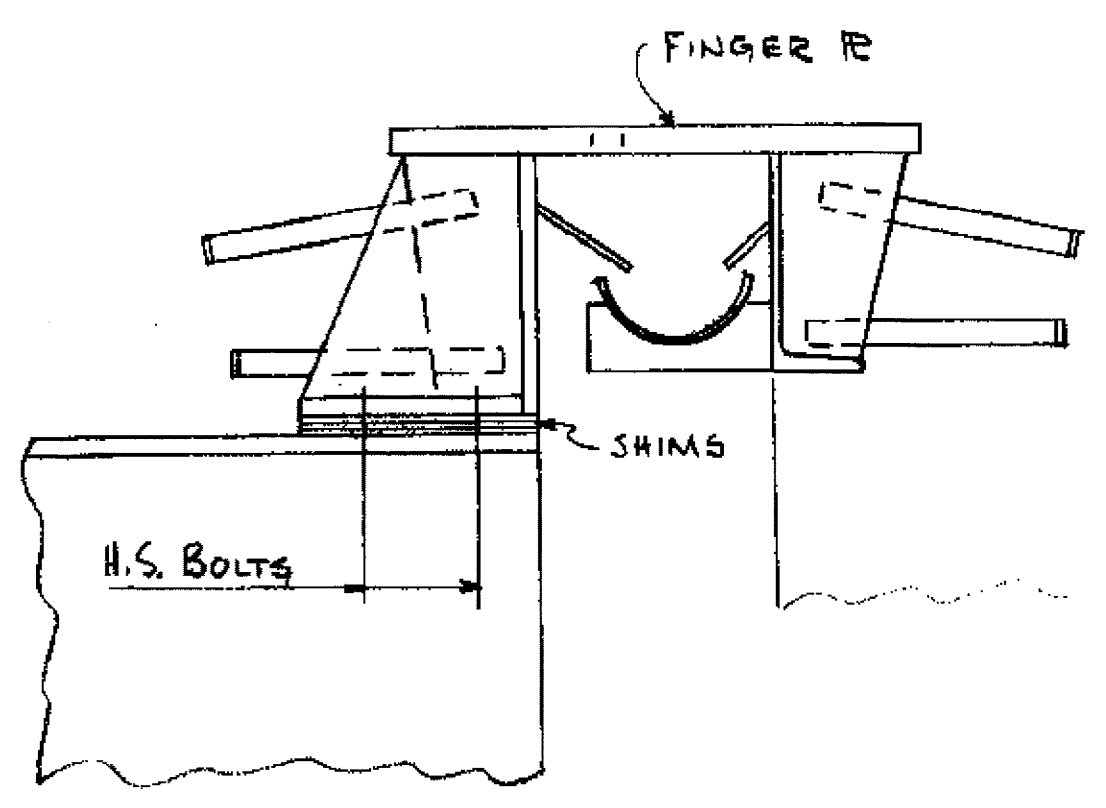
ST. ALBANS - HIGHGATE
 IN BENTON
 SHEET 21 OF 32
 BRIDGE 96N&S
 FOR REFERENCE ONLY

TOWN OF SWANTON
 ROUTE NO. 285
 FRAMING & RAILING PLAN (N)
 MASSACHUSETTS HIGHWAY BOARD
 SCALE: AS SHOWN

BR 96
 N&S



STEEL FRAMING PLAN
ALL DIMENSIONS ARE HORIZONTAL



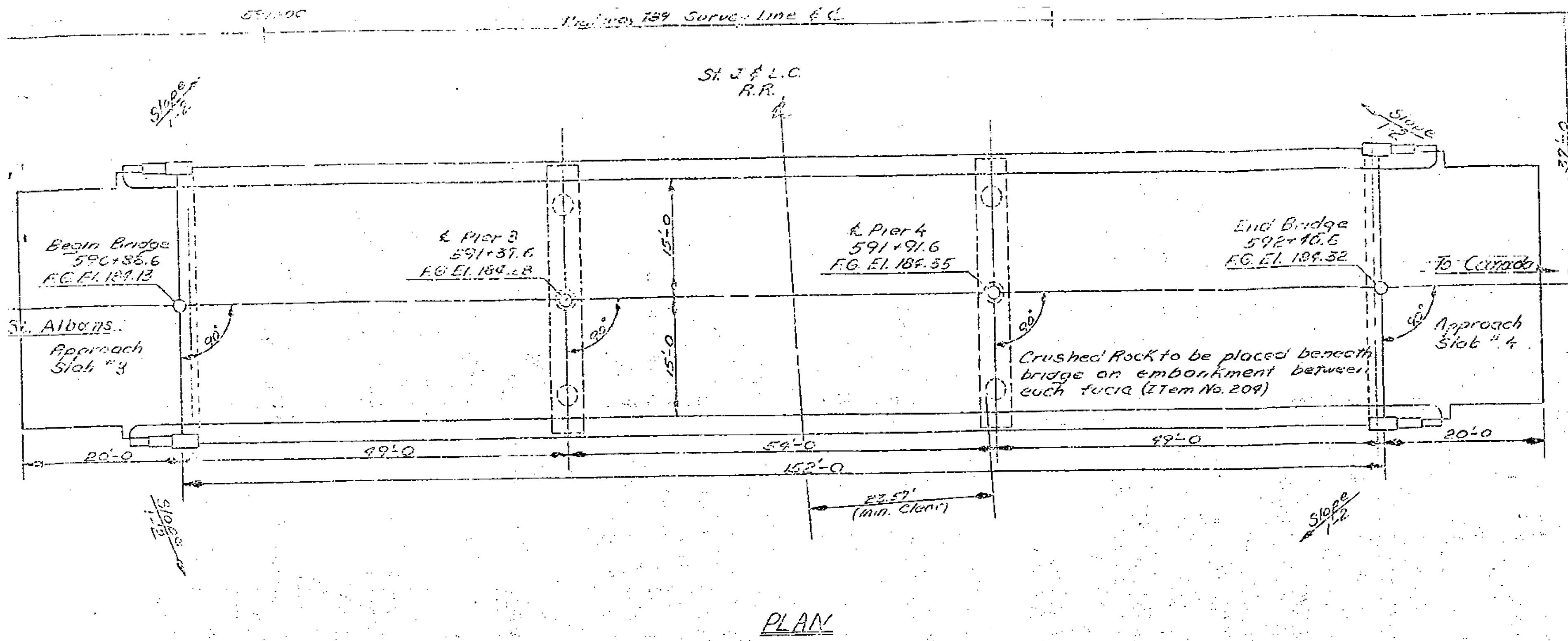
SECTION B-B
SECTION C-C SIM.

- NOTES**
- FOR METHODS OF TIGHTENING H.S. BOLTS & FOR TORQUE AND TENSION REQUIREMENTS FOR H.S. BOLTS SEE ASTM A325 SPECS.
 - SIDEWALK EXPANSIONS TO BE INSTALLED BY GENERAL CONTRACTOR.
 - FOR FIELD SPlice DETAILS, SEE SHT. M1 & M2
 - FIELD CONNECTION BOLTS TO BE 7/8" H.S., U.N.
 - SCUPPER & DRAIN PIPE CONNECTIONS TO BE MADE BY GENERAL CONTRACTOR.
 - RADIOGRAPHIC INSPECTION REQ'D, TO BE MADE BY: ARNOLD GREENE TESTING LABORATORIES, 6 HURON DRIVE, NATICK, MASS.

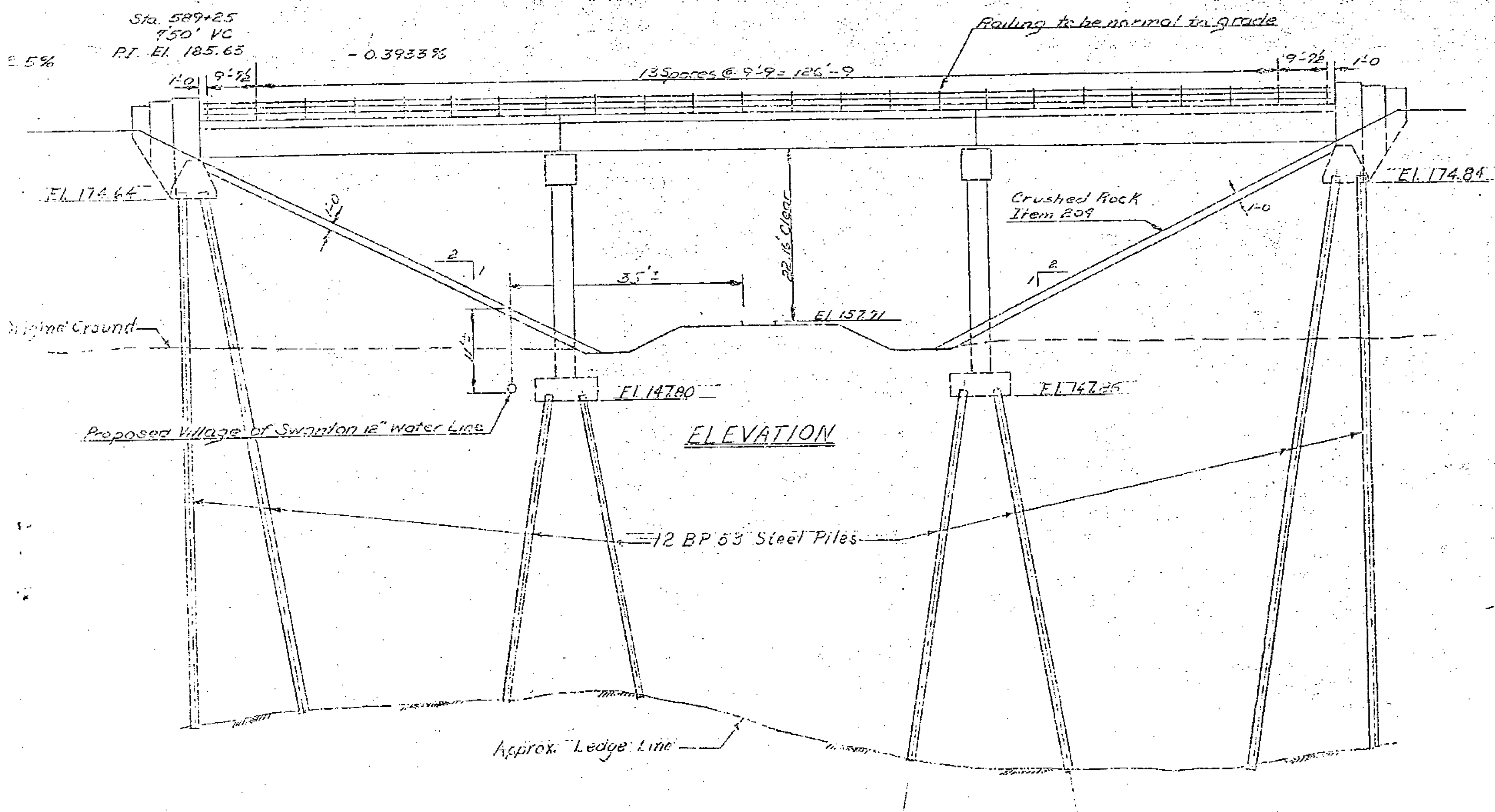
PROJECT NO. I-89-3(7) CONT. No. 1

BOLTS	3/8" H.S.	CITY IRON WORKS A DIVISION OF TRANS-UNITED INDUSTRIES, INC. P. O. BOX 147 WETHERSFIELD, CONN. ROUTE NO. 89, MISSISQUOI RIVER BRIDGE, SOUTHBOUND RDWY SWANTON VERMONT MADE BY: <i>Reid</i> CHECKED BY: <i>J</i> DATE: 12/1/62
OPEN HOLES	1/8"	
PAINT, ONE SHOP COAT		
REVISIONS 1/16/63 ENGR COMMENTS 7/27/63 ENGRS COMMENT		S.O. 1529 A
		SHEET NO. E2

ST. ALBANS - HIGHGATE
IM BPN7(4)
SHEET 22 OF 32
BRIDGE 96N&S
FOR REFERENCE ONLY



PLAN



ELEVATION

Abut. #3	Pier #3	Pier #4	Abut. #4	
179.69	179.80	179.79	179.86	179.87
179.52	180.07	180.07	180.19	180.15
180.02	180.17	180.17	180.22	180.24
179.92	180.07	180.07	180.19	180.15
179.69	179.80	179.79	179.86	179.87

Bearing Device Fix. Exp. Fix. Exp. Fix. Exp.

Beam No. 1 2 3 4 5

Bridge Seel Elevations

LIST OF SHEETS

- Br. 301 - Plan and Elevation
- Br. 302 - Bridge Quantity Sheet
- Br. 303 - Preliminary Information Sheet
- Br. 304 - Boring Logs
- Br. 305 - Approach Slabs #3 and #4
- Br. 306 - Abutments #3 and #4
- Br. 307 - Piers #3 and #4
- Br. 308 - Reinforcing Steel Schedule

BRIDGE STANDARDS

- SCB-D1 thru D9-62
- SB-5G-62 Sheets #1 & #2

GENERAL NOTES

- Elevation datum sea level based on nearest U.S. Government Vertical Control.
- For additional notes see SCB-D1-62.
- For Bearing Devices see SCB-D8-62, Detail A.
- Bridge Footing Item 572 shall be the Galvanized Metal as indicated in detail @ on sheet 2 of 2 of standard SB-5G-62.

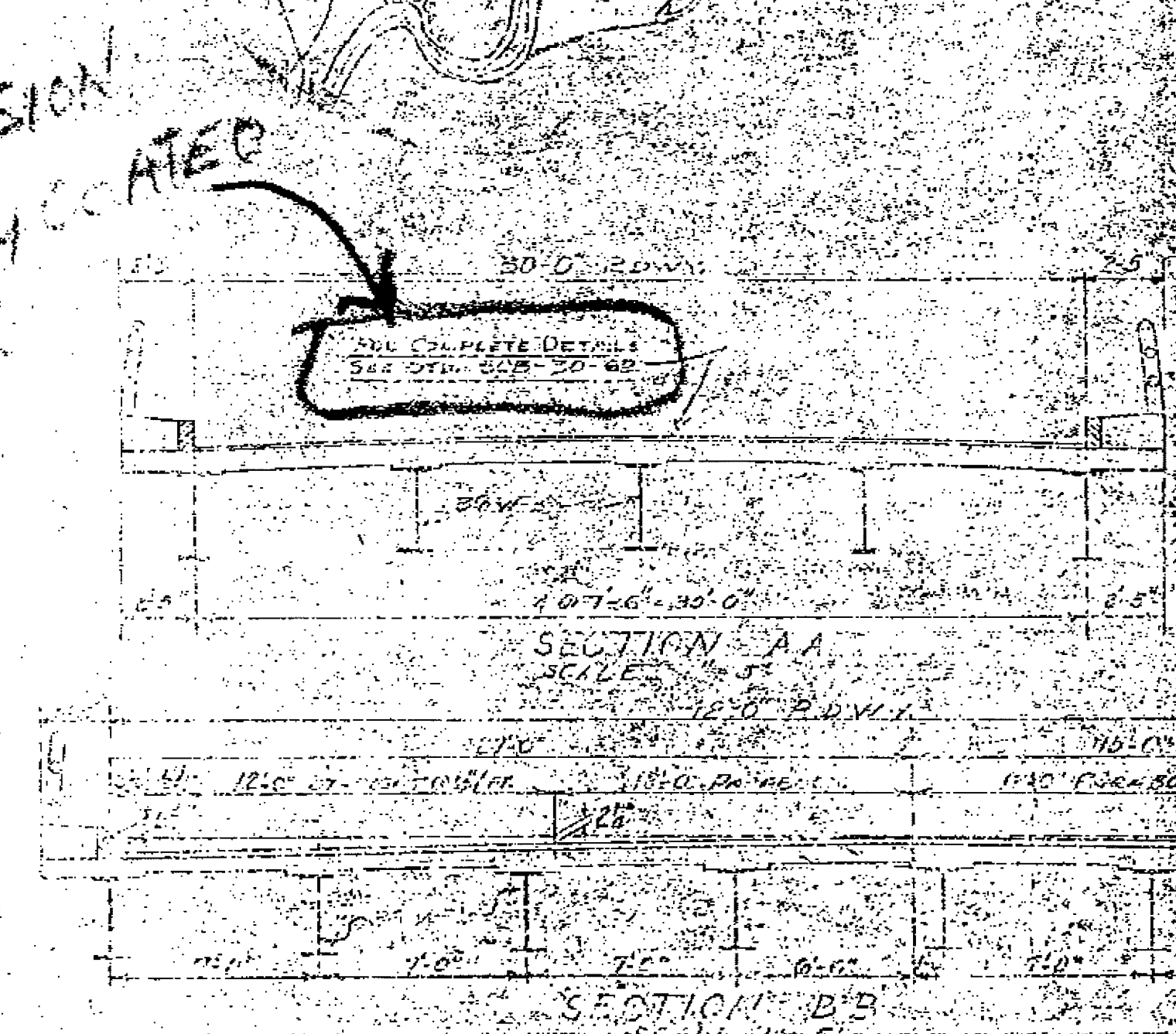
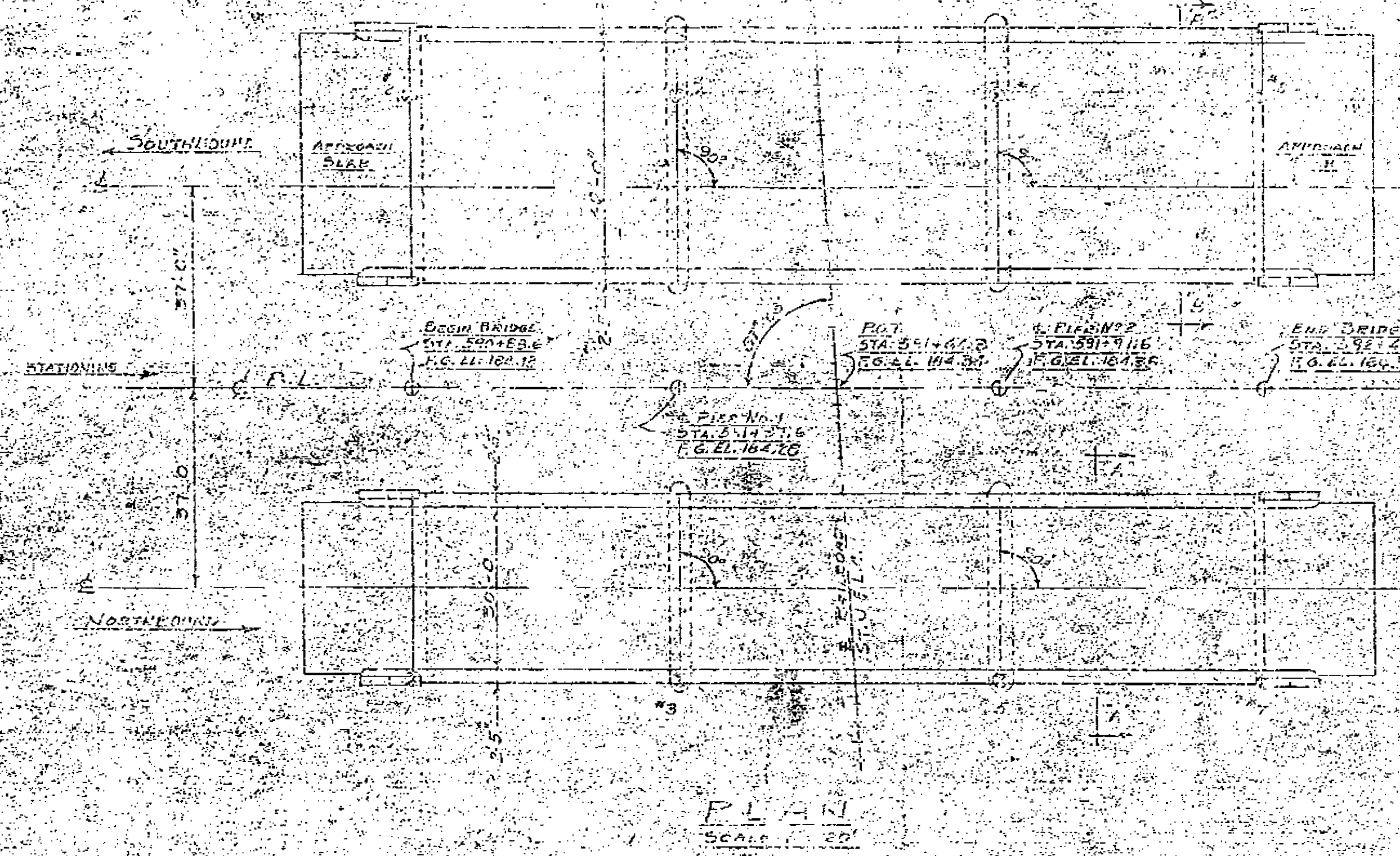
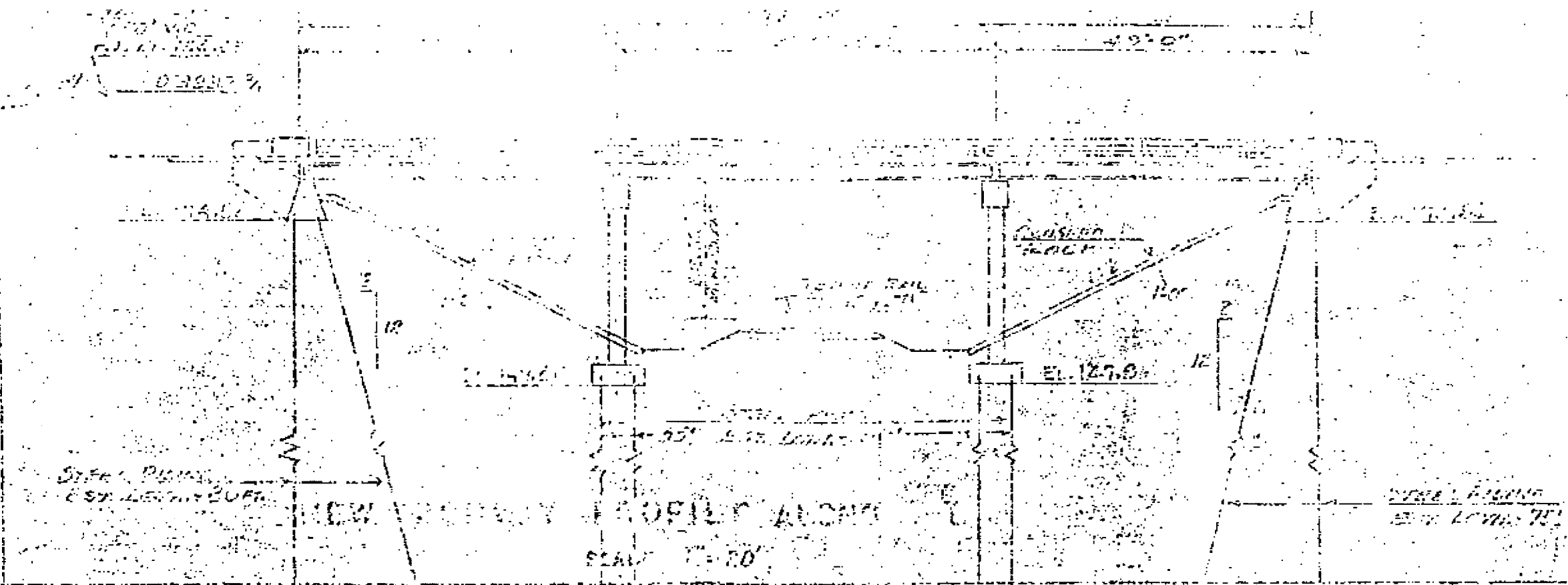
ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 23 OF 32
BRIDGE 97N&S
FOR REFERENCE ONLY

BR. 301 OF 302

ITEM NO.	ITEM	UNIT	QTY	TOTAL	UNIT PRICE
	CHAN. EXCAV. OF BATH	C.Y.			
	CHAN. EXCAV. OF ROCK	C.Y.			
	UNCLASD. CHAN. EXCAV.	C.Y.			
	STRUT BATH	C.Y.			
	CONC. SLAB (A) MOD.	C.Y.			
	CONC. CLASS B. MOD.	C.Y.			
	REIN. STEEL	LB.			
	FORMWORK	SQ. YD.			
	BRICK	SQ. YD.			
	CONCRETE	C.Y.			
	IRON PIPE	LB.			
	STEEL PIPE	LB.			
	STEEL PILING	LB.			
	STEEL PILING	LB.			
	STEEL PILING	LB.			

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
TOWN OF SWANTON-HIGHGATE
ROAD NO. _____
M-1-89 OVER ST. J. F.L.C. R.R.
PLAN AND ELEVATION
SCALE: 1"=10'
SUBMITTAL NO. _____
DATE: _____
135 24
Sheet 23 of 32

NEW HIGHWAY LEON STA. 592+50 TO STA. 695+50
SCALE 1" = 20'



- SECTION AA
- SECTION BB
1. TYPE OF FOUNDATION UNDER EXISTING STRUCTURE
 2. HOW ALL WATER AT FLOOD STAGE PASS THROUGH EXISTING STRUCTURE
 3. HOW ALL WATER ELEVATION IS BEING AFFORDED
 4. ADDITIONAL WATERWAY AREA PROVIDED
 5. RECOMMENDED TYPE OF STRUCTURE *Concrete with steel reinforcement*
 6. RECOMMENDED CLEAR SPAN LENGTH
 7. RECOMMENDED HEADWALL TO NEW STRUCTURE *11.0' x 10.0' x 10.0'*
 8. RECOMMENDED APPROXIMATE PERCENT OF STREAM
 9. ARE THERE OBSTACLES TO BE REMOVED IN THE STREAM, SUCH AS LOGS OR LIMBS
 10. APPROXIMATE HIGH WATER ELEVATION AT NEW STRUCTURE *11.0'*
 11. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE *11.0'*
 12. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE
 13. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION IMMEDIATELY UPSTREAM OF NEW STRUCTURE
 14. MAXIMUM AREA IN ACROSS ABOVE STRUCTURE *11.0' x 10.0' x 10.0'*
 15. IS STREAM EVER DRY
 16. VELOCITY OF STREAM AT HIGH WATER STAGE
 17. IS ANY FLOODING AREA BEYOND BRIDGE
 18. CHARACTER OF SOIL *CLAY*
 19. ESTIMATED CHANNEL AREA ABOVE NATURAL OR ARTIFICIAL CHANNEL
 20. ARE CHANNELS REQUIRED, IF SO ON WHAT SIDE
 21. RECOMMENDED TYPE OF REVENUE *Concrete with continuous concrete surface*
 22. GRADES TO BE MAINTAINED IMMEDIATELY UP OR DOWN THE BRIDGE
 23. PROBABLE COST OF CLEARING AND BRUSHING STREAM CHANNEL AT CONSTRUCTION
 24. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES
 25. MAXIMUM ALLOWABLE LOAD *100,000 LBS*

FOUNDATION INFORMATION

OUTLINE FOUNDATION PURPOSES ONLY AND THE STATE ASSUMES NO RESPONSIBILITY FOR THE SUFFICIENCY OF FACTORS AND THE INFORMATION CONTAINED HEREIN IS UNCORRECTED AS ANY TIER OR ADJUSTMENT LOCATION

DESIGN SPECIFICATIONS:

DESIGN STRESS:

STEEL 36,000 PSI

REIN. STEEL 60,000 PSI

CONCRETE 3,000 PSI

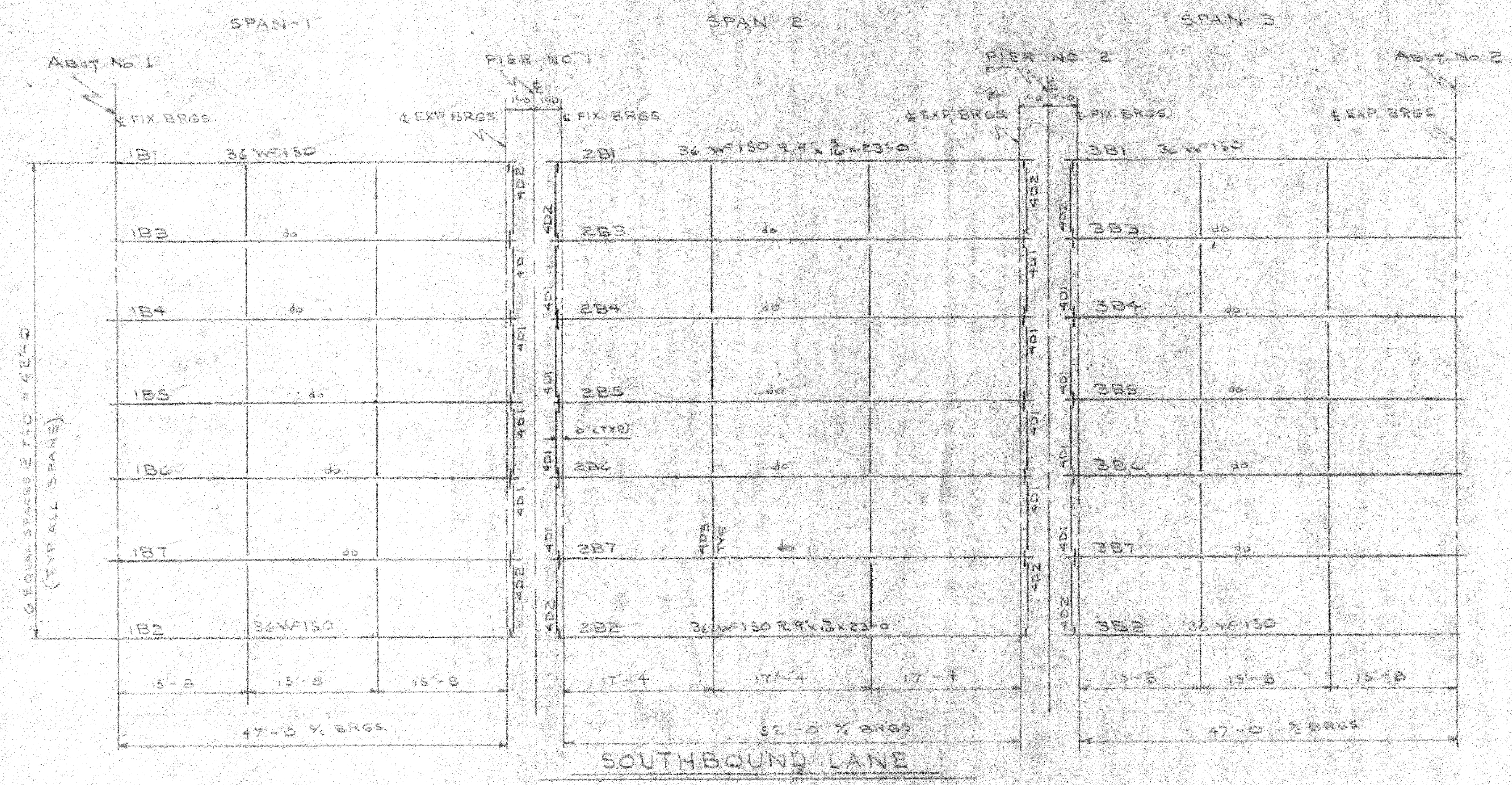
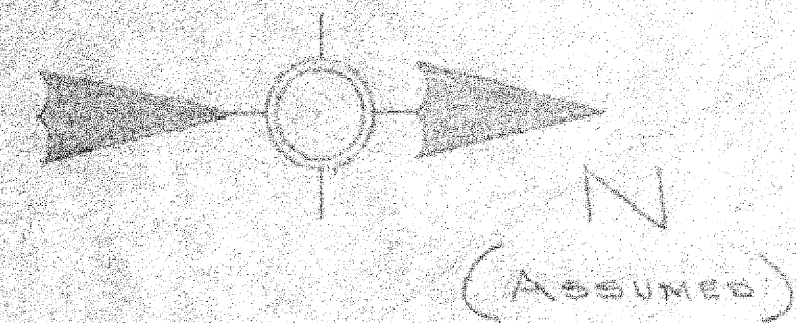
EMULSION
EPOXY COATED
EBAR

ONLY NORTH BOUND LANE TO BE BUILT AT PRESENT TIME

ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 24 OF 32
BRIDGE 97N&S
FOR REFERENCE ONLY

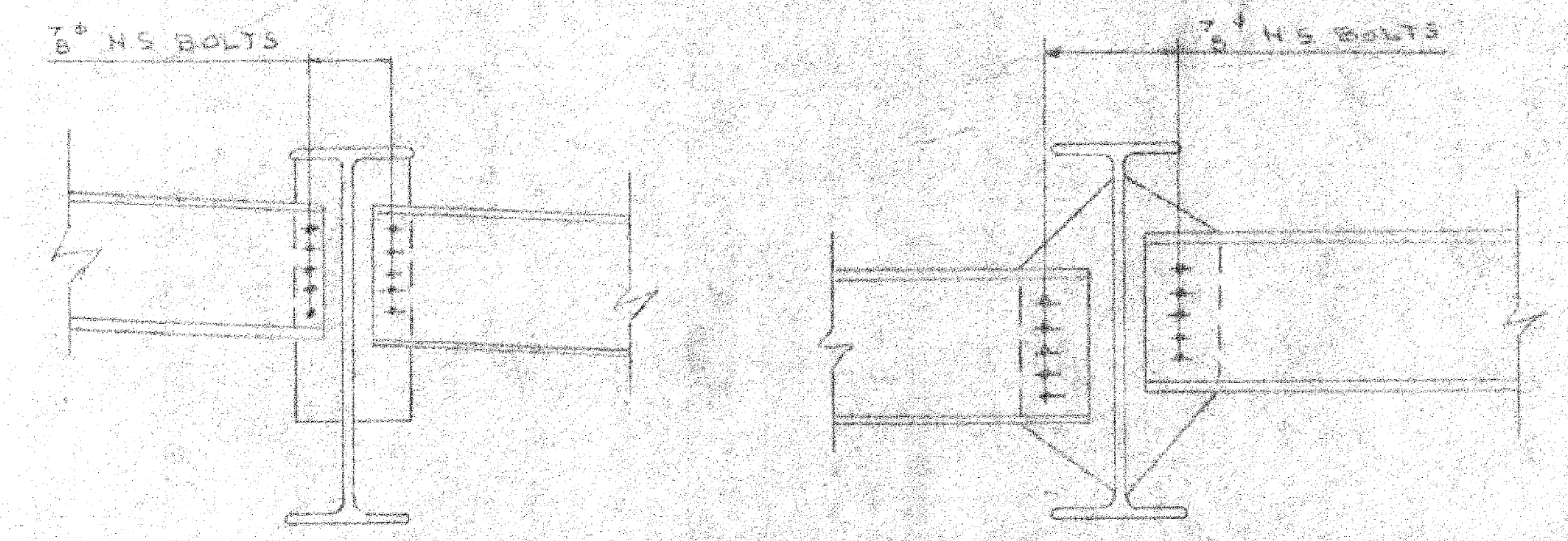
DR 309 OF 309

STATE OF VERMONT
DEPARTMENT OF TRANSPORTATION
INTERSTATE BRIDGE DIVISION
3 WASHINGTON STREET
MONTPELIER, VERMONT 05602
PHONE 248-2100



STEEL FRAMING PLAN
 ALL DIMENSIONS ARE HORIZONTAL
 INT DIAPHRAGMS TO BE 18C42.7 (MARKED 4D3)
 END DIAPHRAGMS AT PIERS TO
 BE 18C42.7

OFFICE COPY



NOTE:
 FOR METHOD OF TIGHTENING
 HIGH STRENGTH BOLTS & FOR
 TORQUE TENSION REQUIRED
 SEE A325 SPECS.

*OKI
 E.F.P. 7/1/63*

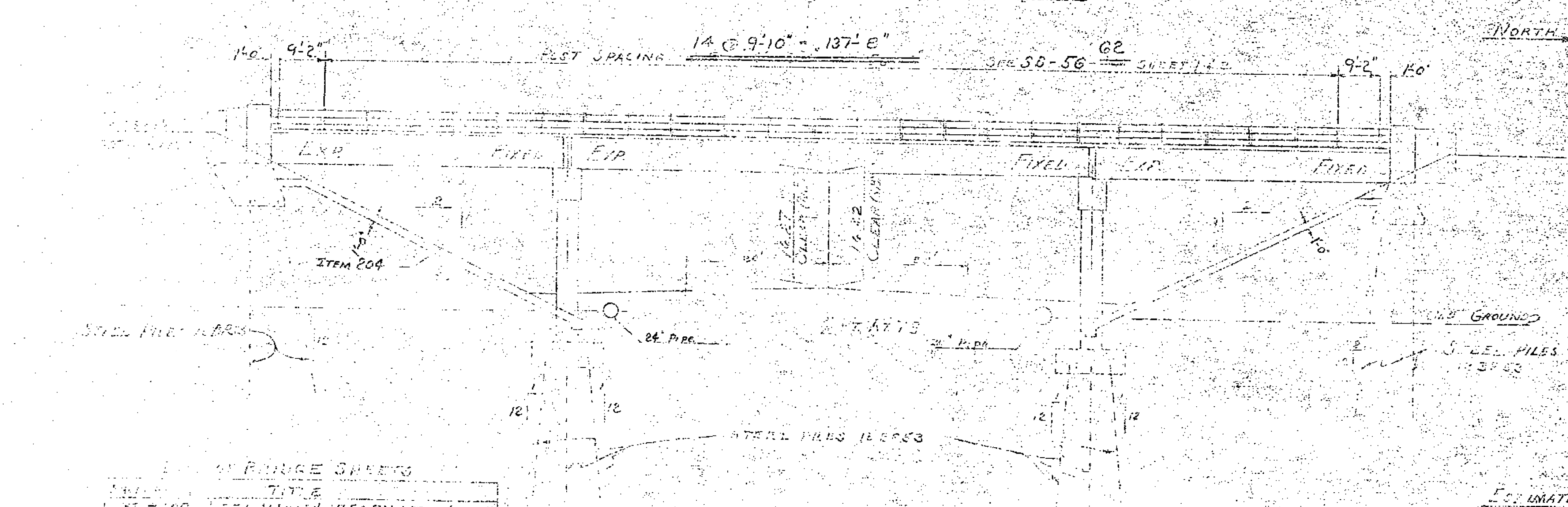
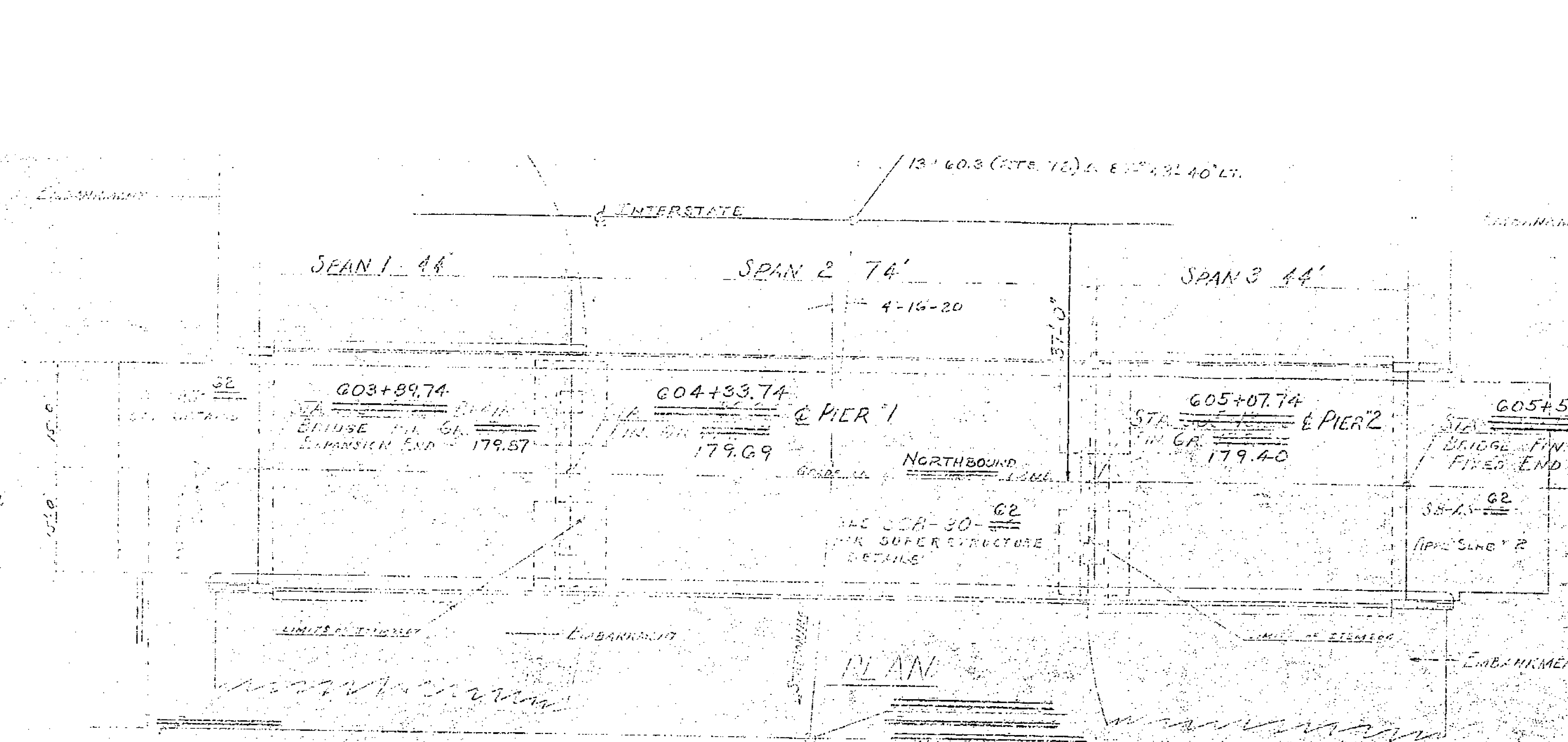
END DIAPHRAGMS **INTERMEDIATE DIAPHRAGMS**

FIELD CONNECTIONS

ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 25 OF 32
 BRIDGE 97N&S
 FOR REFERENCE ONLY

PROJECT NO. I 89-3 (7) CONT. 1

CITY IRON WORKS A DIVISION OF TRANS-UNITED INDUSTRIES, INC. P. O. BOX 147 WETHERSFIELD, CONN.	
BOLTS	INTERSTATE ROUTE 8 th OVER ST. ALBANS RAILROAD, SOUTHBOUND LANE
OPEN HOLES	SWANTON - HIGHGATE VERNONT
PAINT	NAME BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: 7/1/63
REVISIONS	
	S.O. 1529 B SHEET NO. E2



ITEM	DESCRIPTION	UNIT	QUANTITY	STAGE I	STAGE II
309	RELEASE OF GRANULAR BORROW	CU YD	100		100
312	Gravel Backfill	CU YD	100		100
373	RUBBER JOINT MATERIAL	L.F.	270		270
401	CONCRETE CLASS AA, MOD. C.Y.	CU YD	66		66
402	REINFORCING STEEL	LB	66,500		66,500
403	SPRAL REINFORCING STEEL	LB	156,112		156,112
404	STEEL PILING	LB	323		323
405	ASPHALTIC CONCRETE	CU YD	315		315
401-A	CONCRETE CLASS AA, MOD. C.Y.	CU YD	60		60
503	SPLICES FOR STEEL PILING	LB	323		323
504	STEEL PILING	LB	323		323
505	GRANITE BRIDGE CURB MOD.	CU YD	315		315
506	BRIDGE RAILING (GALVANIZED METAL)	L.F.	60		60
594	UNIFORMED TRAFFIC OFFICERS	MAN HR.	2160		2160
102-A	GRANULAR BORROW	CU YD	100		100

- GENERAL NOTES**
- All material and construction shall conform to the specifications of the Department of Highway Standard Specifications for Road and Bridges, dated Jan. 1956 and the Massachusetts Standard Specifications, designed for the loading modified for National System of Interstate Highways, applied in accordance with the provisions of the AASHTO Standard Specifications, Article 1.01.
 - Where rock is encountered in foundation, it shall be poured until all boulders in an area 500 feet from the structure have been displaced.
 - Final cut of field piers shall be given unless otherwise directed.
 - All dimensions given are measured horizontally or vertically unless otherwise noted.
 - All dimensions given at 68°F.
 - All reinforcing steel to have a clearance of 3 inches otherwise noted.
 - All exposed edges of concrete shall be finished to a smooth surface.
 - Springings indicated on the drawings have been made for design purposes only and are not warranted to show actual construction.
 - El. bottom of level based on mean of 20 years average of vertical curve.
 - Steel bearing piles shall be driven to a depth of 10 feet below the approved by the Engineer. When piles are driven to full depth, they shall be such as to have no stands in the soil.
 - Cross slope of approach shall conform with the cross slope of the ground.
 - The top surfaces of all piers and abutments shall be finished to a level from the front edge of treatment within wall or centerline of pier, except for bearing pads projecting 1 foot more above the general level, which surfaces shall be level. The entire pier and abutment surfaces and piers shall be coated with asphaltic concrete.
 - Unless otherwise noted, the application of this specification shall be on standard structures.
 - All expansion material shall be provided work for winter no later than...

ITEM	TITLE
400	REL. MATERIAL INFORMATION
401	PLAN & ELEVATION
402	SPRINGS
403	DETAILS OF TRUSS
404	DETAILS OF PIER
405	PAVING AND CURB
406	RAILINGS
407	TRAFFIC OFFICERS
408	SCB-D1-62 THROUGH SCB-D1-62
409	SCB-D1-62 SHEET 1 & 2

ITEM	DESCRIPTION	UNIT	QUANTITY	STAGE I	STAGE II
309	RELEASE OF GRANULAR BORROW	CU YD	100		100
312	Gravel Backfill	CU YD	100		100
373	RUBBER JOINT MATERIAL	L.F.	270		270
401	CONCRETE CLASS AA, MOD. C.Y.	CU YD	66		66
402	REINFORCING STEEL	LB	66,500		66,500
403	SPRAL REINFORCING STEEL	LB	156,112		156,112
404	STEEL PILING	LB	323		323
405	ASPHALTIC CONCRETE	CU YD	315		315
401-A	CONCRETE CLASS AA, MOD. C.Y.	CU YD	60		60
503	SPLICES FOR STEEL PILING	LB	323		323
504	STEEL PILING	LB	323		323
505	GRANITE BRIDGE CURB MOD.	CU YD	315		315
506	BRIDGE RAILING (GALVANIZED METAL)	L.F.	60		60
594	UNIFORMED TRAFFIC OFFICERS	MAN HR.	2160		2160
102-A	GRANULAR BORROW	CU YD	100		100

STAGE I & II CONSTRUCTION

STA

DEF

ST. ALBANS - HIGHGATE

IM BPNT(4)

SHEET 26 OF 32

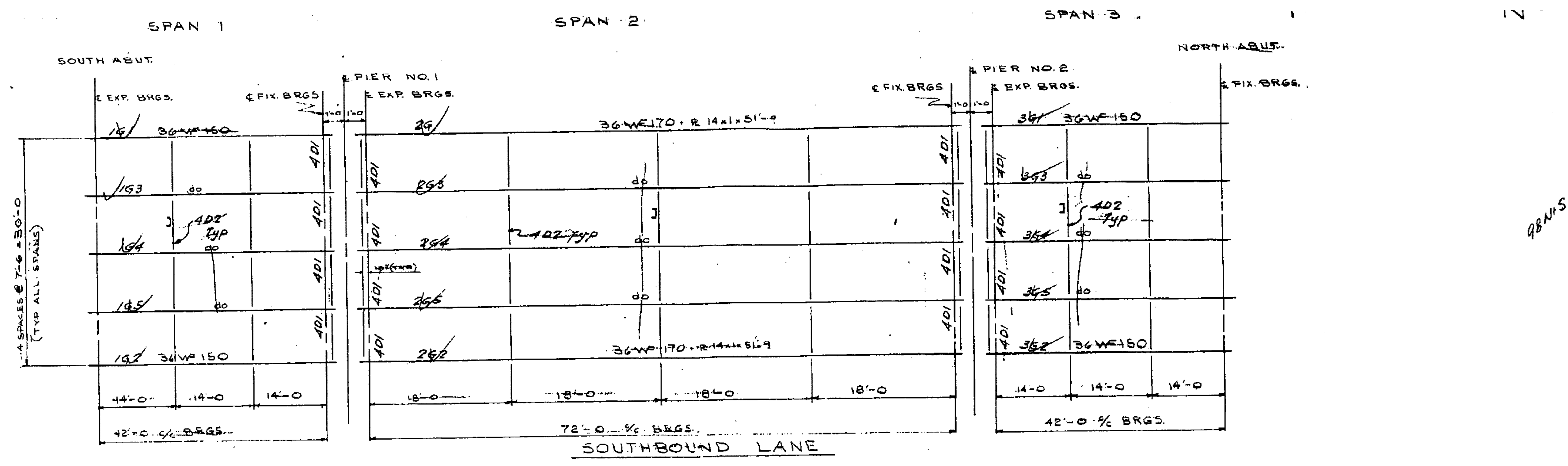
BRIDGE 98N&S

FOR REFERENCE ONLY

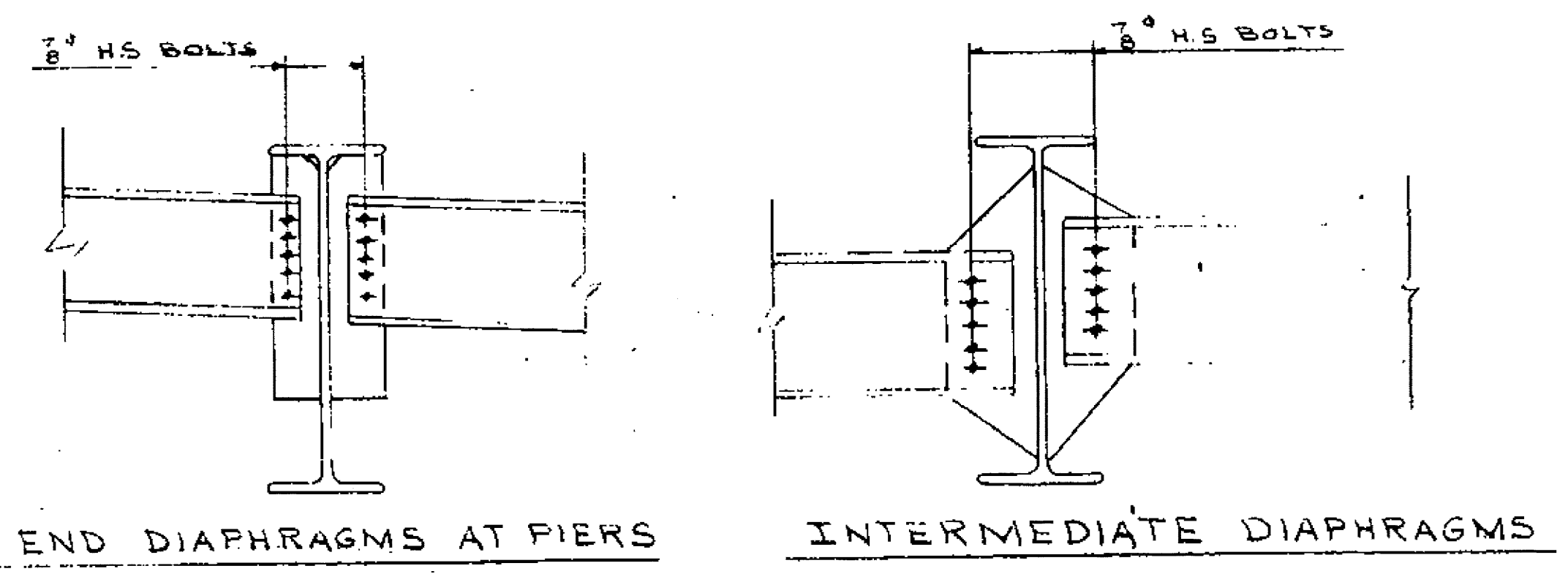
DATE INC.

DATE INC.

(N.D.)



STEEL FRAMING PLAN
 ALL DIMENSIONS ARE HORIZONTAL
 INT. DIAPHRAGMS TO BE 18C 42T
 END DIAPHRAGMS AT PIERS TO BE 18C 48-T



FIELD CONNECTIONS

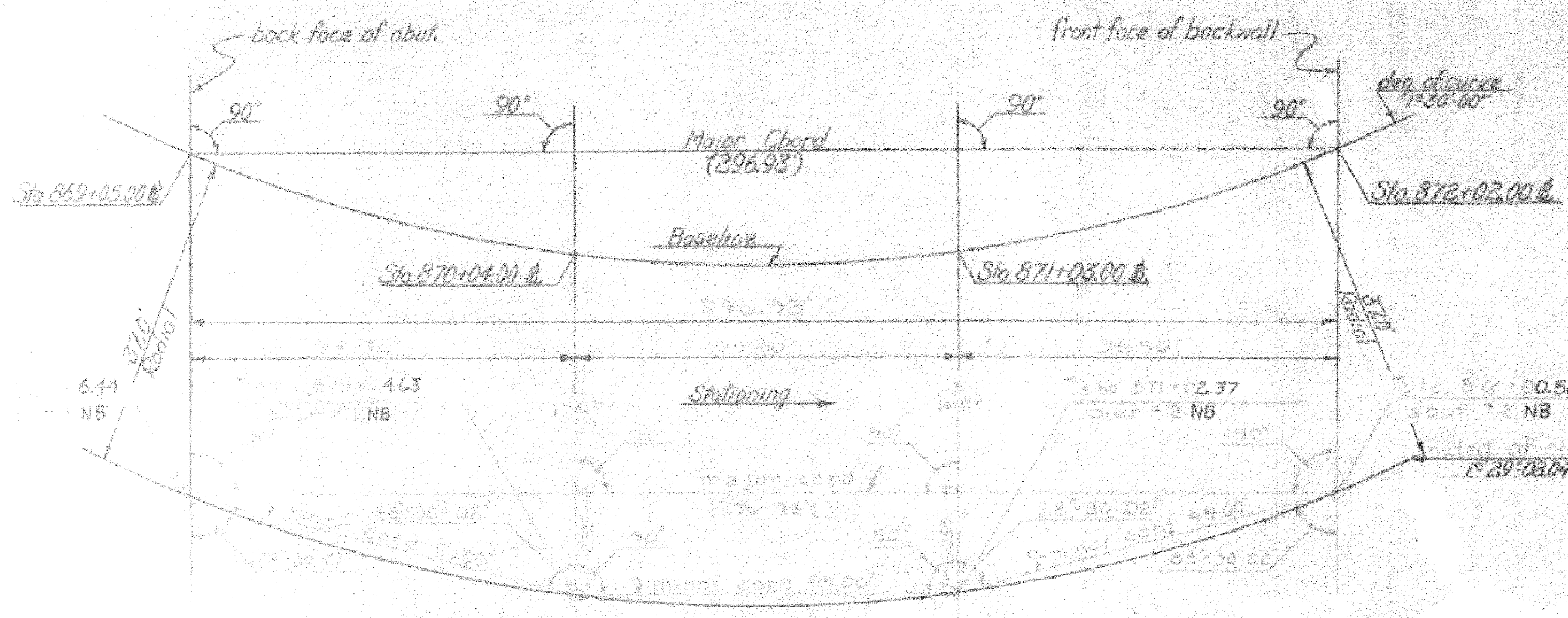
NOTE
 FOR METHOD OF TIGHTENING
 HIGH STRENGTH BOLTS AND FOR
 TORQUE & TENSION REQUIRED
 PER ASTM A325 SPECS.

ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 28 OF 32
 BRIDGE 98N&S
 FOR REFERENCE ONLY

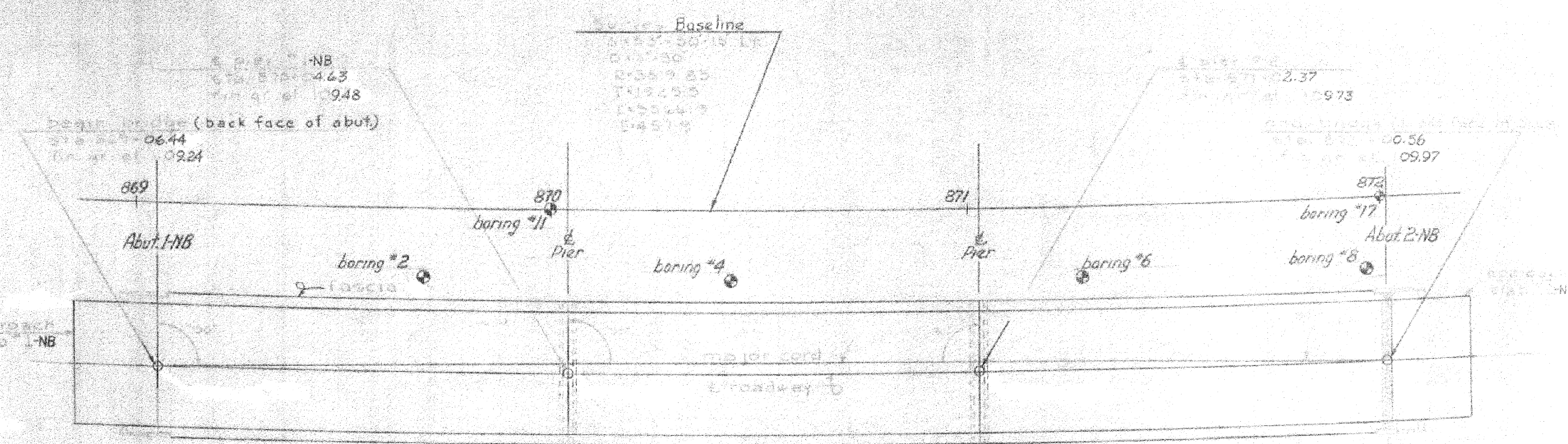
State Copy
 Checked
 3-12-63
 JJC
 DR. 11/11/63

PROJECT NO. I-89-3(T) CONT. #1

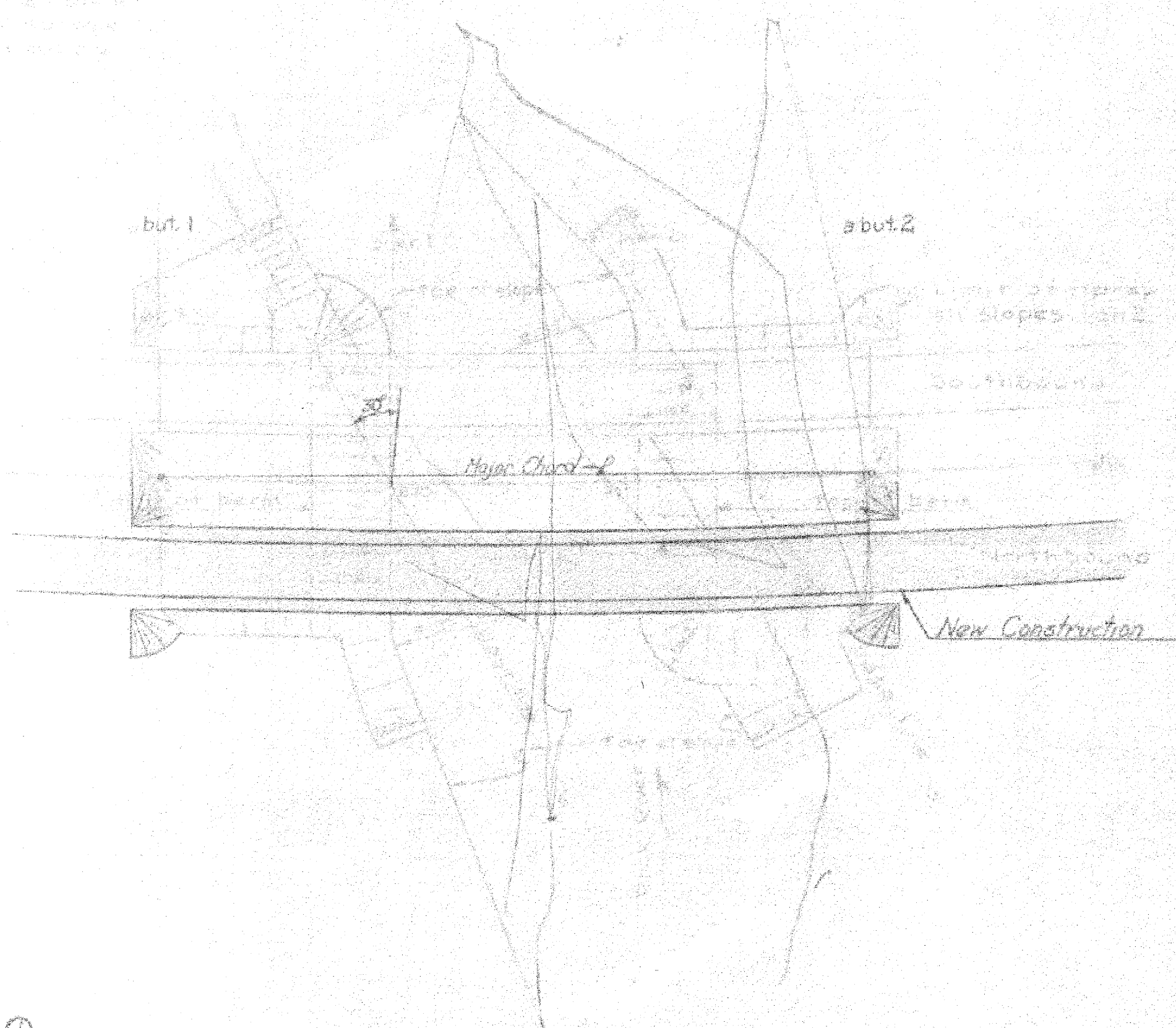
BOLTS	CITY IRON WORKS A DIVISION OF TRANS-UNITED INDUSTRIES, INC. P. O. BOX 147 WETHERFIELD, CONN.
OPEN HOLES	
PAINT	
REVISIONS	INTERSTATE 89 OVER ROUTE 76. SOUTH BOUND LANE SWANTON - HIGHGATE VERNON
	MADE BY <i>Red</i> CHECKED BY <i>MDR</i> DATE <i>4/1/63</i>
	S.O. 1529C SHEET NO. E 2



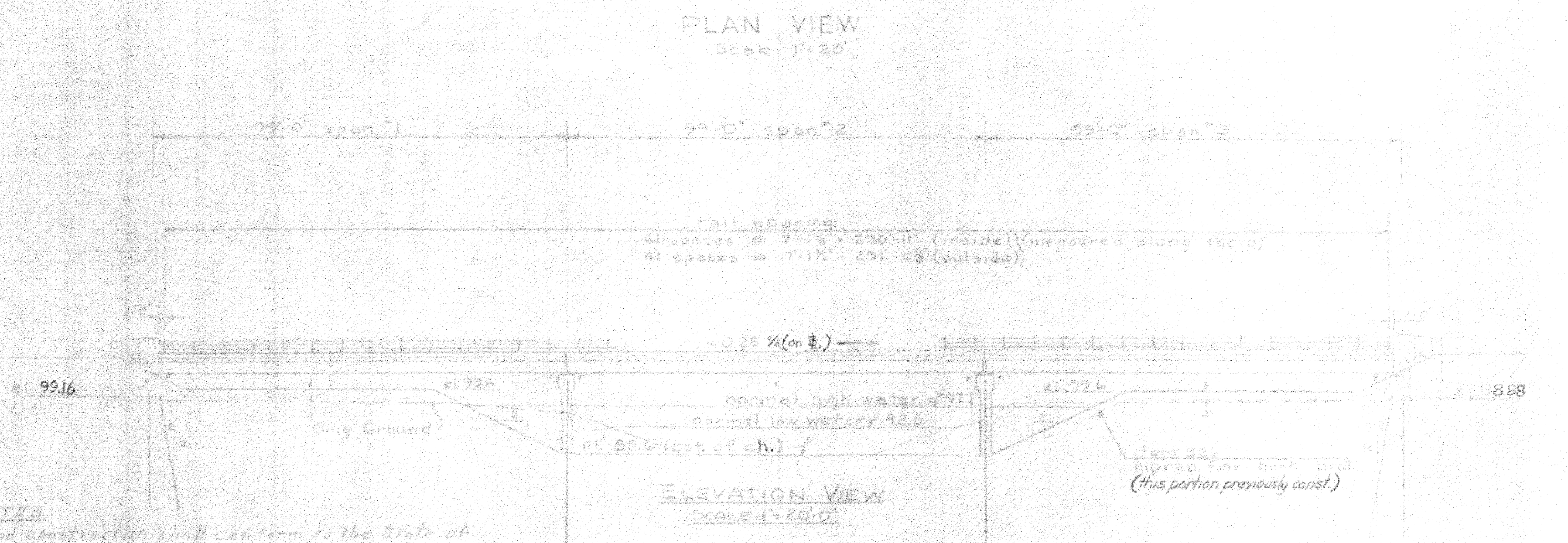
LAYOUT PLAN
not to scale



PLAN VIEW
Scale 1"=20'



PLAN VIEW
Scale 1"=20'



ELEVATION VIEW
Scale 1"=20.0'

GENERAL NOTES

- All materials and construction shall conform to the State of Vermont Dept. of Highways Standard Specifications for Road and Bridge Construction, dated July 1964 and the 1964 Standard Specifications for Highway Bridges, dated July 1964, as amended, and the National System of Interstate Highways, applied in accordance with the provisions of the 1964 Standard Specifications.
- Contractor to submit plans for a permanent pile driving frame to be placed on river bottom at pier.
- Superstructure to be as per Std. Sp. SCB-30-WB and SCB-D Series, except as noted on plans. See Tracing plan.
- All structure of steel in substructure to be protected and permanently painted in accordance with the specifications for bridge painting and coating as per Std. Sp. DS-500 Series 2 sheets, 2a.
- Scissors as per Std. Sp. SCB-D6-G2. For location see Tracing plan.
- Class B concrete design at abut. NB1 and pier. 1:1.5 as per Std. Sp. SCB-D8-G2, detail A.
- For sequence of bridge construction due to surcharge loading conditions of approach fill, see Special Provisions.
- Concrete in new piers may be placed under water up to 30' depth in accordance with 1964 Standard Specifications.
- Final cost of field work shall be based on the estimate directed by the Engineer.
- All materials shall be tested and certified in accordance with the specifications.

REVISIONS

- ADDED STAGE II AND STAGE I COLUMNS TO LIST OF BRIDGE SHEETS 5-28-65-RTB
- ADDED (STAGE I) TO GENERAL NOTE 1 5-28-65-RTB
- ADDED GEN. NOTE 12A 5-25-65-RTB
- WAS 90 L.F. 6-2-65 RTB

SUMMARY OF QUANTITIES

ITEM	ITEM	UNIT	NET	AS BUILT
107	STRUCT. EXCAV.	CY	260	125
108	BRICK BACKING	sq. ft.	0	0
118	TAR FLOOR FOR BRIDGE DECK (BASE GRAVEL TOP FINISH)	sq. ft.	456	456
127	BITUMINOUS CONCRETE FINISH	sq. ft.	96	96
101-A	CONC. CLASS 'A' (MO.)	cu. yd.	336	336
101-B	CONC. CLASS 'B' (MO.)	cu. yd.	206	206
102	REIN. STEEL	lbs.	96,316	97,529
103	SPRINK. REINFORCEMENT @ STA 870+50 (7'40")	sq. ft.	1	1
104	STRUCTURAL STEEL (@ STA 870+50)	lbs.	53,074	53,074
105	ASPHALTE-CONCRETE	sq. ft.	40	40
106	FORM EXPOS. FOR BRIDGE PILES	sq. ft.	12	12
107	SPICES FOR STEEL PILES	sq. ft.	76	76
108	STEEL PILES (14' OR 15')	lf.	5,362	5,362
109	CUTAILS @ 50% UNIT PRICE	lf.	278	278
110	NO. 10 GAL. ZINC PAINT	qt.	49	49
111	CONCRETE RAISED CURB (MO.)	cu. yd.	833	833
112	CONCRETE RAISED CURB (CONCRETE)	cu. yd.	585	585
373	Rubber Joint Material - Hot Placed	lf.	167	167
			150	150

All expansion material shall be provided with core containing no bituminous or asphalt.

* These items to be included in Contractor quantities.

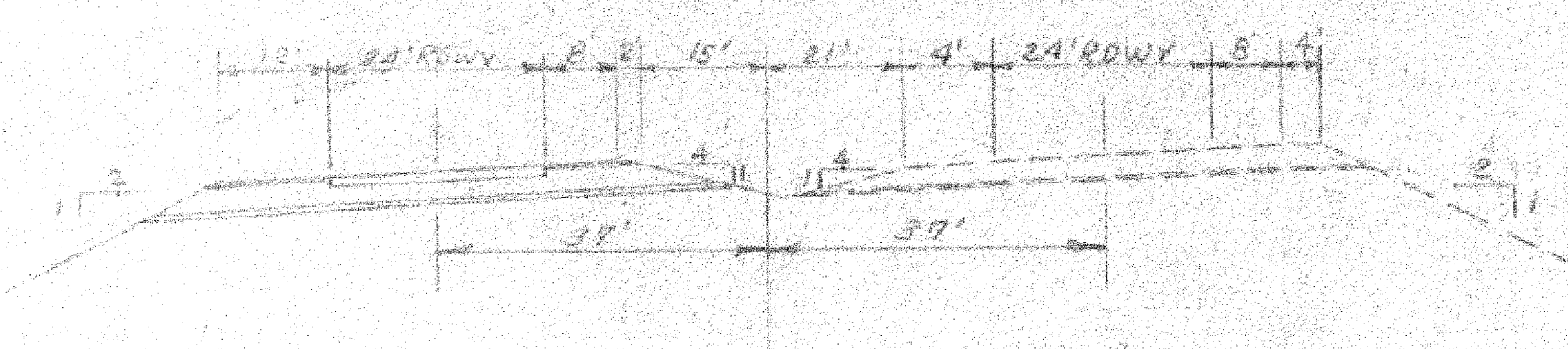
STAGE II	STAGE I	DRIVE SHEETS
Sh. No.		
BR 200	200	Plan & Elevation Views
	201	Preliminary Information Sheet
	202	Boring Logs
BR 204	204	Tracing Plan & Expansion Bearings
BR 205	205	Expansion End Details
	206	Abutments 1 & 2
	207	Piers 1 & 2
BR 208	208	Approach Slabs
	209	Approach Slabs
	210	Approach Slabs
SCB-30-62		SCB-30-62
SCB-D1-62		SCB-D1-62
SCB-D2-62		SCB-D2-62
SCB-D3-62		SCB-D3-62
SCB-D4-62		SCB-D4-62
SCB-D5-62		SCB-D5-62
SCB-D6-62		SCB-D6-62
SCB-D7-62		SCB-D7-62
SCB-D8-62		SCB-D8-62
SCB-D9-62		SCB-D9-62
SB-50-62		SB-50-62 (Sht. 1 & 2)

ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 29 OF 32
BRIDGE 100N&S
FOR REFERENCE ONLY

TOWN OF HIGHGATE
ROUTE No. 107
NORTHBOUND LANE
PLAN'S ELEVATION VIEWS
ROCK RIVER
SCALE AS SHOWN
SURVEYED BY
DRAWN BY RND - CHECKED BY JAE
PROJECT NO. J-89-3(33)
SHEET 29 OF 32
STAGE II DESIGN No. 1-89-3(24)

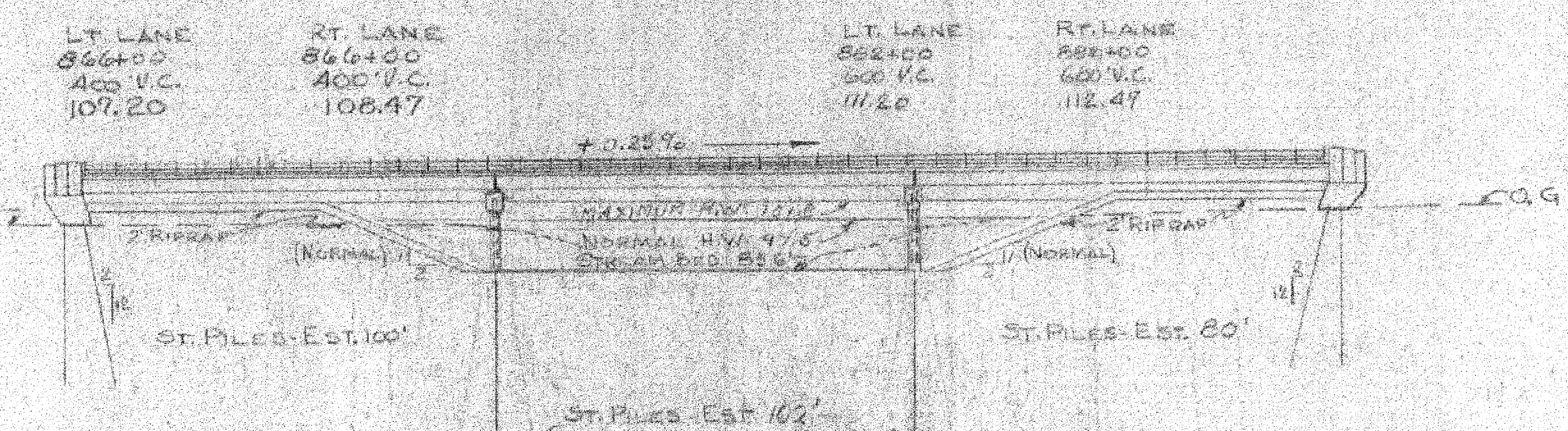
© 12A Vermont Specs. dated April 1964 shall apply to Stage II Const.

SURVEY
E



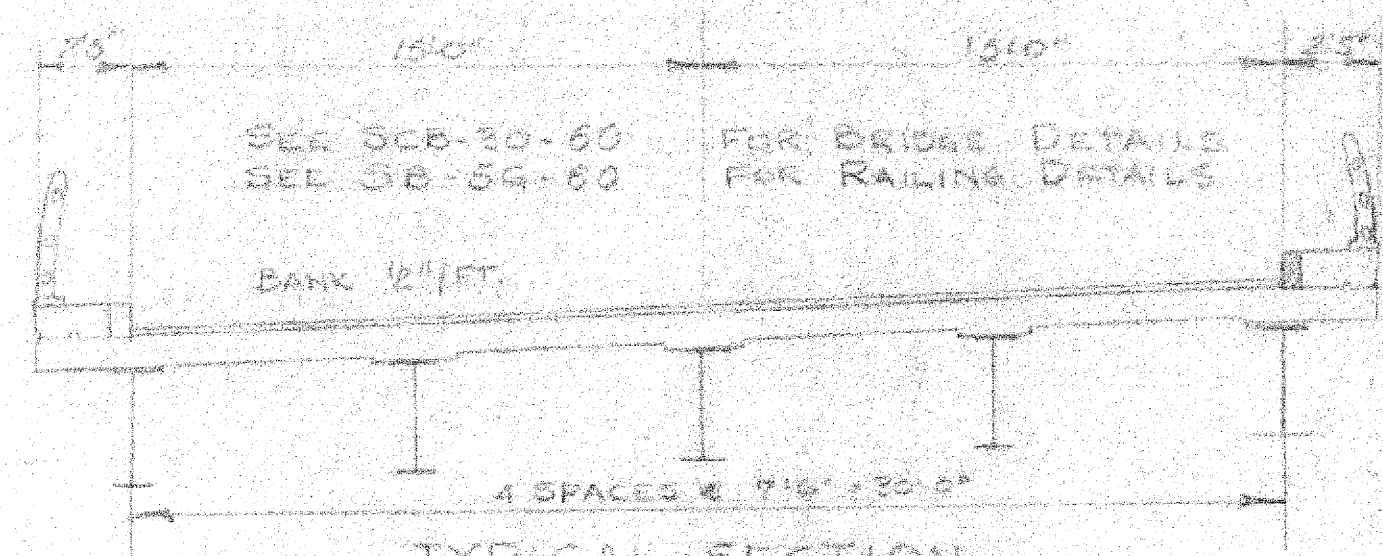
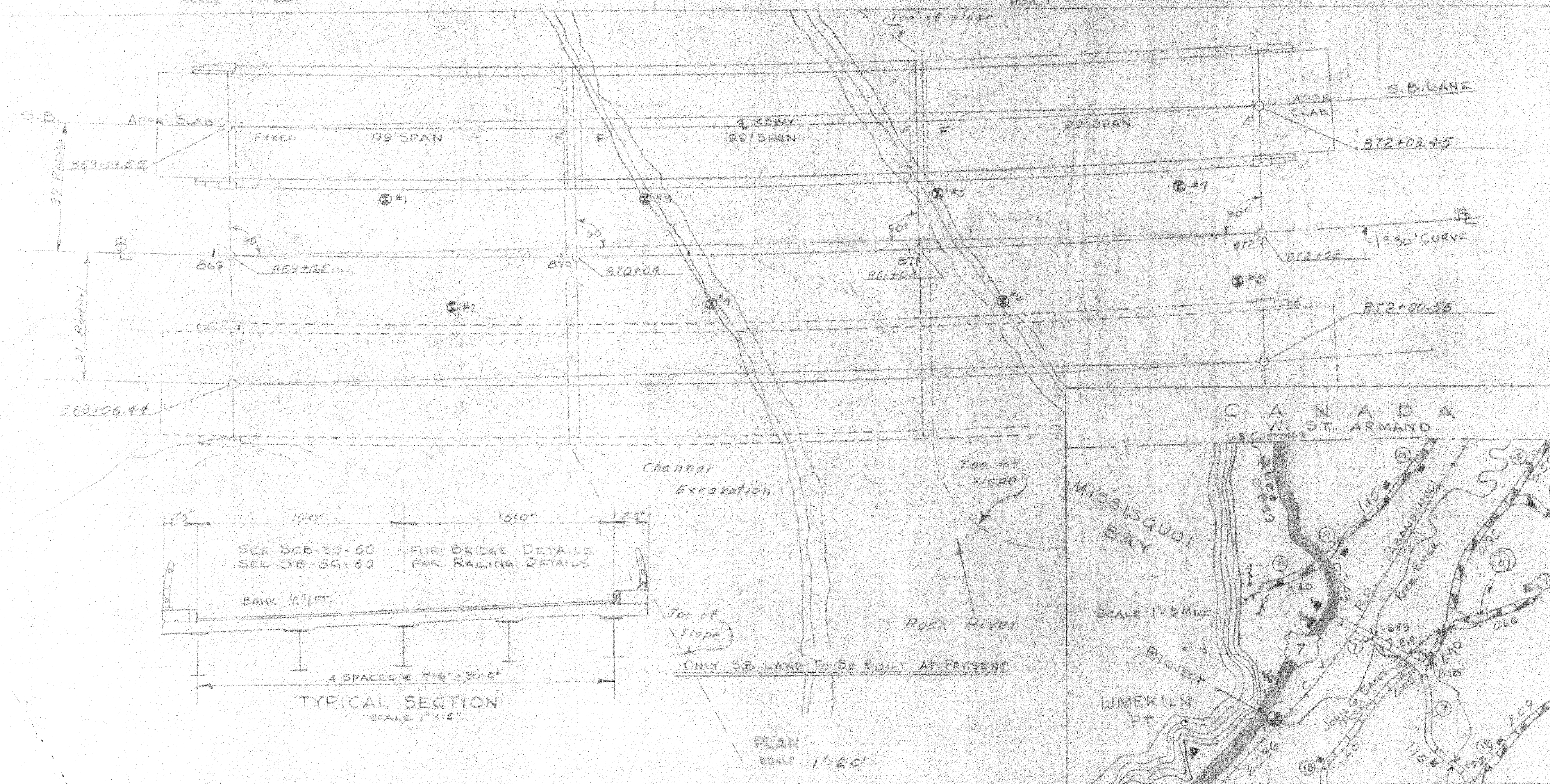
NEW HIGHWAY SECT. STA. TYPICAL TO STA.

SCALE 1" = 20'



NEW HIGHWAY PROFILE ALONG E (GRADE IS FOR 4' ROADWAY)

SCALE VERT. 1" = 20' HORIZ. 1" = 20' PILE DATA IS FOR LT. (S.E.) LANE



TYPICAL SECTION
SCALE 1" = 5'

PLAN
SCALE 1" = 20'

EL. 856 GRADE 0%

PROFILE OF PROPOSED STREAM CHANNEL

SCALE

HIGHWAY NO. 89 NAME OF HIGHWAY INTERSTATE
 STRUCTURE NO. COUNTY FRANKLIN TOWN HIGHGATE
 PROJECT NO. I-89-3(1) LOCATION 4.5 MILES NORTH OF SWANTON, HIGHGATE TOWN LINE

EXISTING STRUCTURE

- 1 DATED LOADING OF EXISTING STRUCTURE
- 2 TYPE OF EXISTING STRUCTURE
- 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE COST OF REMOVAL
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE
- 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT No
- 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE WATERWAY TO ORDINARY H.W.
- 8 EXTREME HIGH WATER AT EXISTING STRUCTURE
- 9 SPAN OF EXISTING BRIDGE UPSTREAM WATERWAY TO EXTREME H.W.
- 10 SPAN OF EXISTING BRIDGE DOWNSTREAM 20' WATERWAY TO EXTREME H.W. 8000'
- 11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS
- 12 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE YES
- 13 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED
- 14 ADDITIONAL WATERWAY AREA PROVIDED

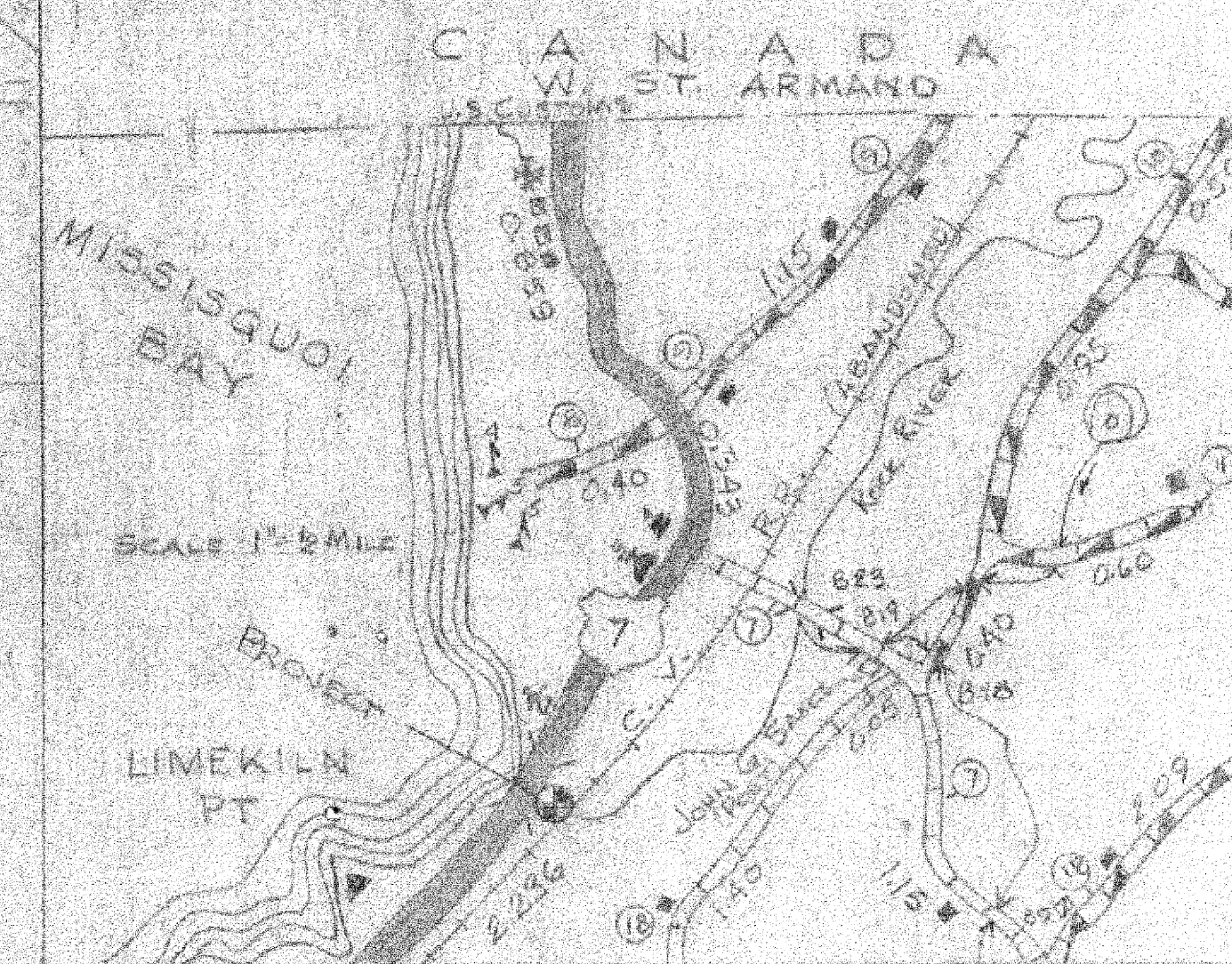
NEW STRUCTURE

- 1 RECOMMENDED TYPE OF STRUCTURE W.C.M. BRIDGE SCR-30-60
- 2 RECOMMENDED CLEAR SPAN OR SPANS 3 SPANS
- 3 MEASURED PARALLEL TO NEW HIGHWAY 99' 99' 99'
- 4 MEASURED AT RIGHT ANGLES TO STREAM 99' 99' 99'
- 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO No
- 6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 97.5'
- 7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 10.8' SOURCE OF INFORMATION LAKE LEVEL
- 8 ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? YES
- 9 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY FLOW RAPID? No
- 10 LOW WATER ELEVATION AT NEW STRUCTURE 92.5'
- 11 WRAHAGE AREA IN MOSES ABOVE STRUCTURE 35,000 CHARACTER OF TERRAINE ROLLING
- 12 IS STREAM EVER DRY? No
- 13 VELOCITY OF STREAM AT HIGH WATER STAGE 2.5 FPS ESTIMATED DISCHARGE 2005 CFS
- 14 AREA FULL OPENING 2287.51' AREA BELOW ORDINARY H.W. 1432.14'
- 15 CHARACTER OF BOTTOM NOVE DRIFT
- 16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE None
- 17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 5'6" ABOVE O.G. H.W.
- 18 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE NO BOTH SIDES
- 19 RECOMMENDED TYPE OF PAVEMENT BIT. CONC.
- 20 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. ONE OR TWO WAYS PROBABLE COST
- 21 PROBABLE COST OF CLEARING AND BRUSHING STREAM CHANNEL AT STRUCTURE SITE \$1500.00
- 22 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? NO
- 23 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 120 T/PI SHOULD PILES BE USED? YES EST. COST 80,100'

FOUNDATION INFORMATION

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN, BRIDGES MAY BE ENCOUNTERED AT ANY PIER OF ABUTMENT LOCATION.

SEE BORING SHEET



ST. ALBANS - HIGHGATE
 IM BPNT(4)
 SHEET 30 OF 32
 BRIDGE 100N&S
 FOR REFERENCE ONLY

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

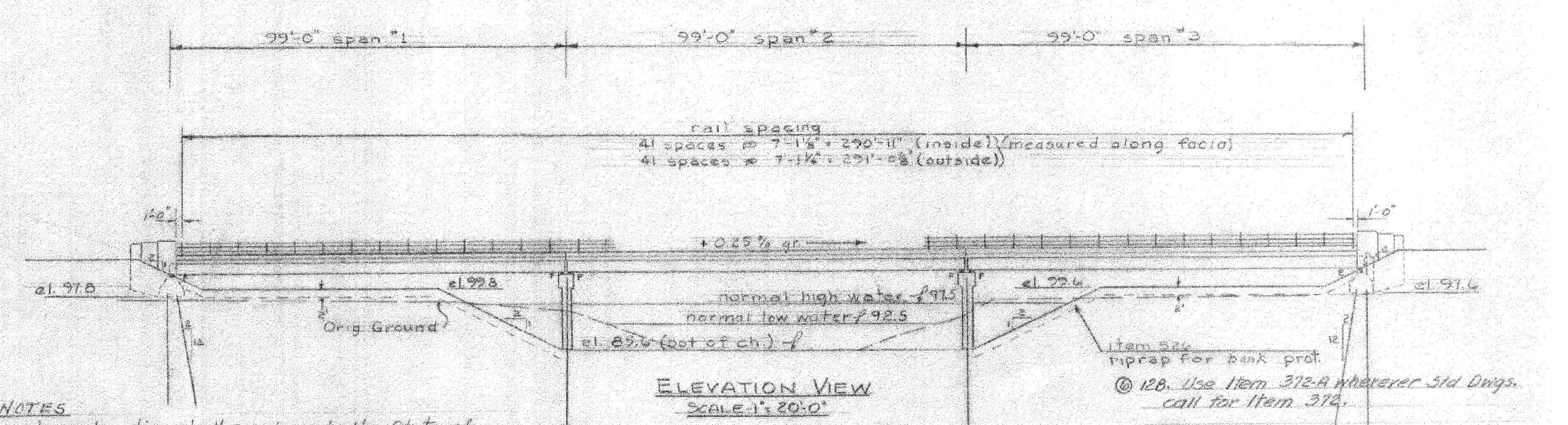
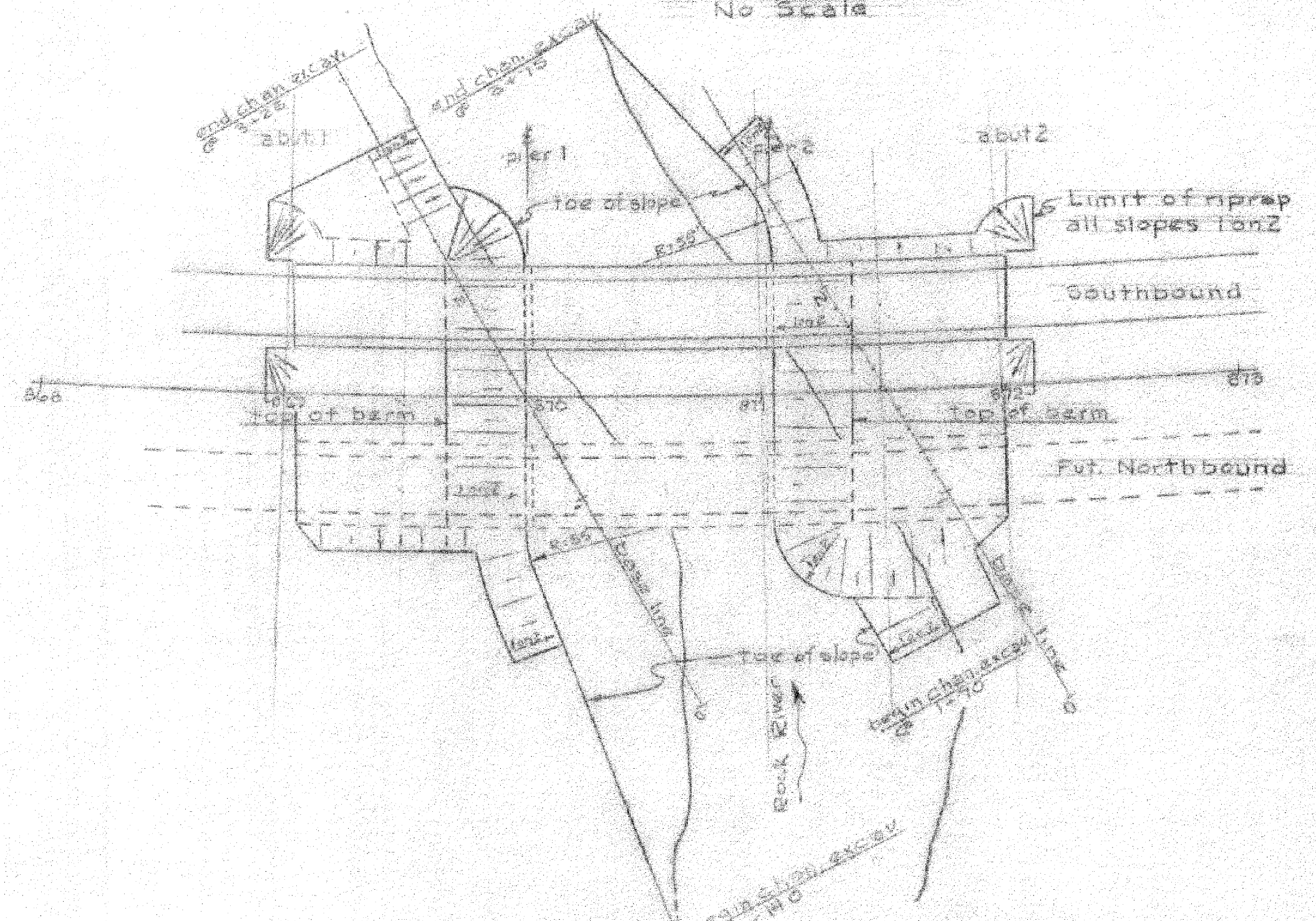
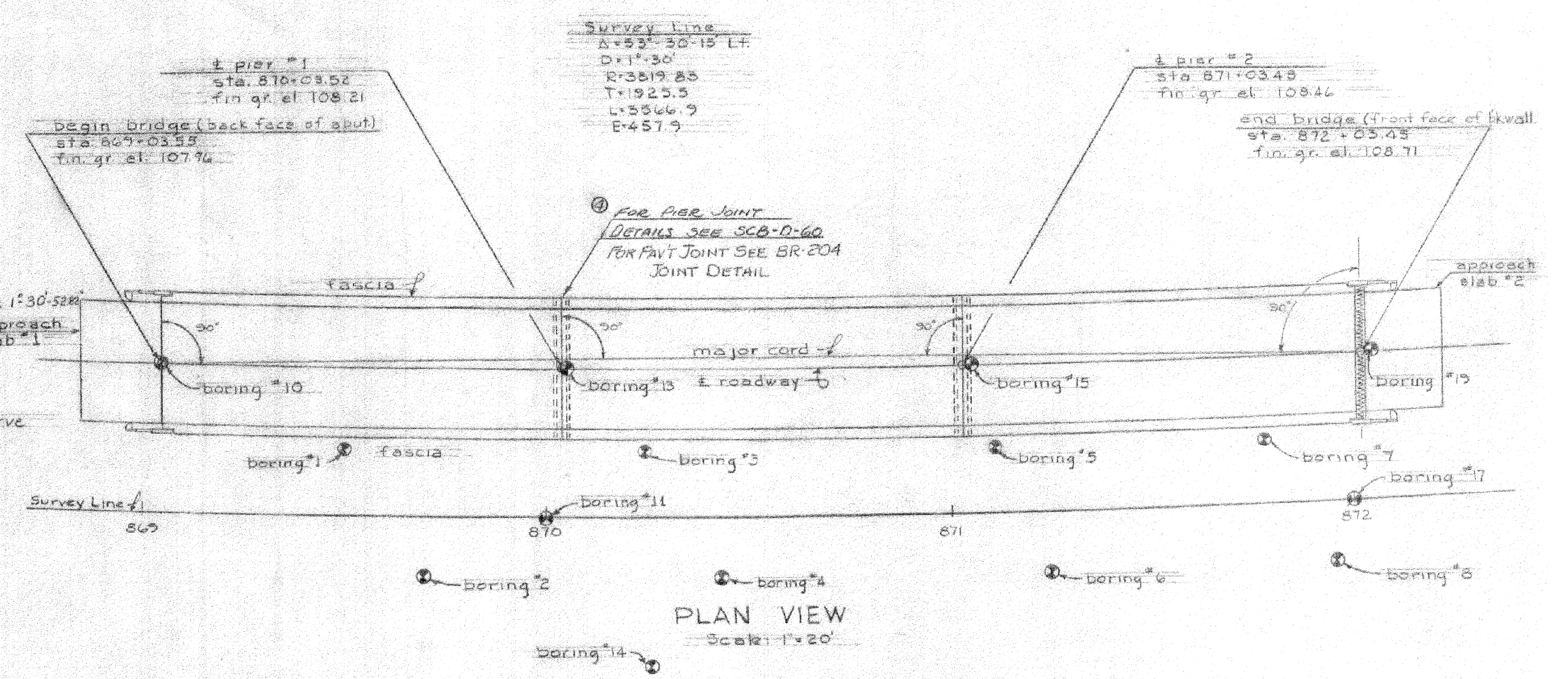
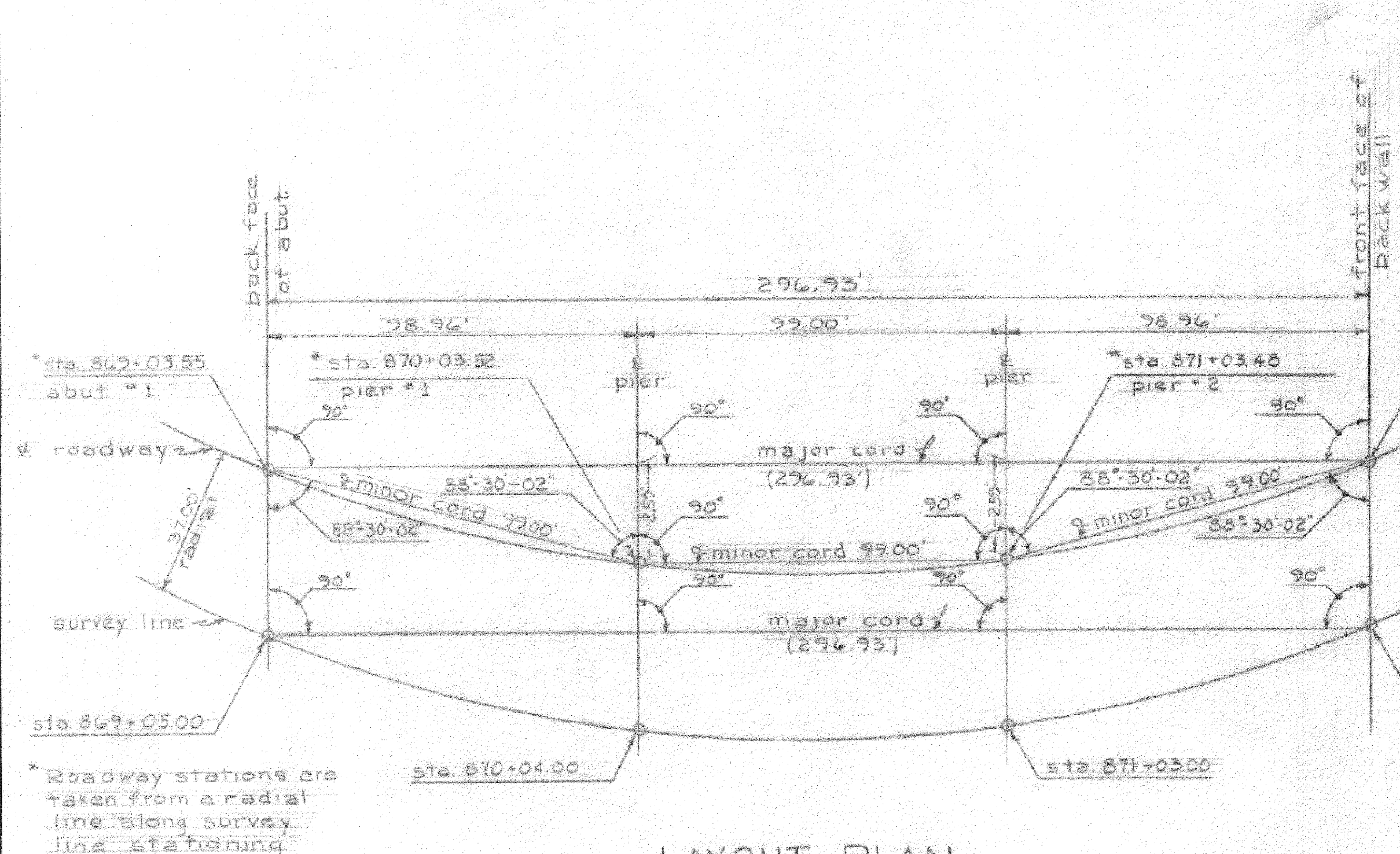
BRIDGE IN THE TOWNS OF
 SWANTON - HIGHGATE

ROUTE NO. I-89 STA. 890+50
 ROCK RIVER

PRELIMINARY INFORMATION SHEET

DESIGNED BY CAD DATE 2-4-36
 PROJECT NO. I-89-3(1) SHEET 30 OF 32

DATE 12/15/68 BY [Signature]
 REVISIONS: Revised 20 Oct 60 R.D.H. (Grade) Revised 4/25/62 Table A.H. Revised 22 Nov 60 L.H.



- GENERAL NOTES**
- All materials and construction shall conform to the State of Vermont Dept. of Highways, Standard Specifications for Road and Bridge Construction, dated Jan. 1956 and the AASHTO, Standard Specs. dated 1957 designed for H20-S16-44 loading modified for National system of Interstate Highways applied in accordance with the provision of the AASHTO standard specifications, Article 1.8.8. (Stage I) ①
 - Contractor to submit plans for a permanent pile driving frame to be placed on river bottom at piers.
 - Superstructure to be as per Std. Sh. SCB-30-60 and SCB-D-60 except as noted on plans. See framing plan.
 - All structural steel in superstructure to be erected and permanently anchored before any portion of the conc. deck is poured.
 - Bridge railing and curb as per Std. Sh. SB-56-60 sheets 1 & 2.
 - Scuppers as per Std. Sh. SCB-D-60. For location see framing plan.
 - Fixed bearing devices at abut. #1 and at piers #1 & 2 as per Std. Sh. SB-20-60.
 - For sequence of bridge construction due to surcharge loading conditions of approach fill, see Special Provisions.
 - Concrete in the piers may be placed under water up to elev. 90 in accordance with Item 401.07.
 - Final Coat of Field paint shall be Green, unless otherwise directed by the engineer.
 - All dimensions given are measured horizontally or vertically unless otherwise noted.
 - For additional rates see other sheets.
 - 12A. Vermont Specs. dated April 1964 shall apply to Stage II Const. ①

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	NET	FINAL
110	MUCK EXCAVATION	C.Y.	1888	
123	DEAGLINE RENTAL (Mod.)	Mo.	100	
102-A	GRANULAR BORROW	C.Y.	4370	
106-A	CHANNEL EXCAVATION OF EARTH	C.Y.	11300	
107	STRUCT. EXCAV.	C.Y.	232	
222	GRAVEL BACKFILL	C.Y.	30	
318	TAR EMULSION FOR BRIDGE FLOORS	GAL.	436	STAGE II
361-B	BITUMINOUS CONCRETE PAVEMENT	TONS	127	STAGE II
401-B	CONC. CLASS B (Mod.)	C.Y.	375	
401-D	CONC. CLASS D (Mod.)	C.Y.	247	
402	REINF. STEEL	LBS.	86,332	
403	SPIRAL REINFORCEMENT (7650)	LBS.	1	
404-A	STRUCTURAL STEEL	LBS.	597,230	
407	ASPHALTIC-ASB. COATING	S.Y.	41	
501	FURN. EQUIP. FOR DRIVING PILES	L.S.	2	
503	SPLICES FOR STEEL PILING	EA.	42	
504	STEEL PILING (14 8" x 73)	L.F.	4320	
509	PILE LOADING TEST	EA.	2	
526	RIP-RAFF FOR BANK PROTECTION	C.Y.	252	
526-C	GRANITE BRIDGE CURB (Mod.)	L.F.	635	
572	BRIDGE RAILING	L.F.	575	
106-B	CHANNEL EXCAVATION OF ROCK (est.)	C.Y.	93	
372-A	JOINT SEALER - HOT PAUDED	L.F.	100	STAGE II

LIST OF BRIDGE SHEETS

Sh. No.	Sh. No.	TITLE
BR3	BR3	Preliminary Information Sheet
BR4-5	BR4-5	Boring Log
BR6	BR6	Plan and Elevation Views
BR7	BR7	Framing Plan & Expansion Bearings
BR8	BR8	Expansion End Details
BR9-10	BR9-10	Approach Slabs
BR11	BR11	Abutments #1 & 2, End Post
BR12	BR12	Piers 1 & 2
BR13	BR13	Reinforcing Steel Schedule
BR14-18	BR14-18	Channel Sections
BR19	BR19	Earthwork Sheet
BR20	BR20	SCB-D-60
BR21	BR21	SCB-30-60
BR22	BR22	SB-20-60
BR23-24	BR23-24	SB-56-60 sheet 1 & 2
BR25	BR25	SB-22-60

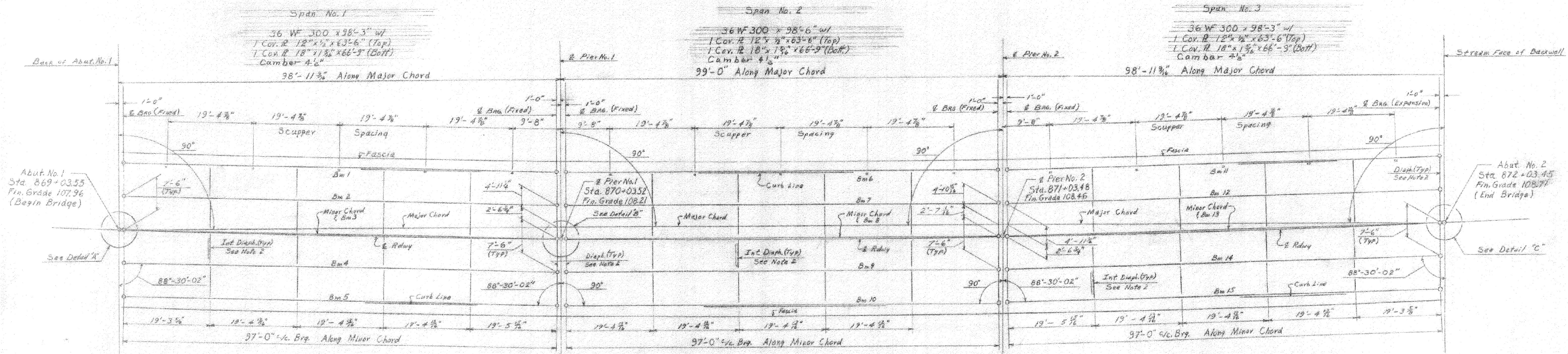
- REVISIONS**
- CHANGED 312C TO 312-A 5-27-65 R.T.B.
 - ADDED (STAGE II) TO GENERAL NOTES 1. 5-27-65 R.T.B.
 - ADDED STAGE II & STAGE I TO LIST OF BRIDGE SHEETS 5-27-65 R.T.B.
 - ADDED NOTE FOR PIER JOINT DETAILS - 5-27-65 R.T.B.
 - ADDED GEN. NOTE 12A - 5-27-65 R.T.B.
 - ADDED GEN. NOTE 12B - 5-27-65 R.T.B.

ST. ALBANS - HIGHGATE
IM BPT(4)
SHEET 31 OF 32
BRIDGE 1008AS
FOR REFERENCE ONLY

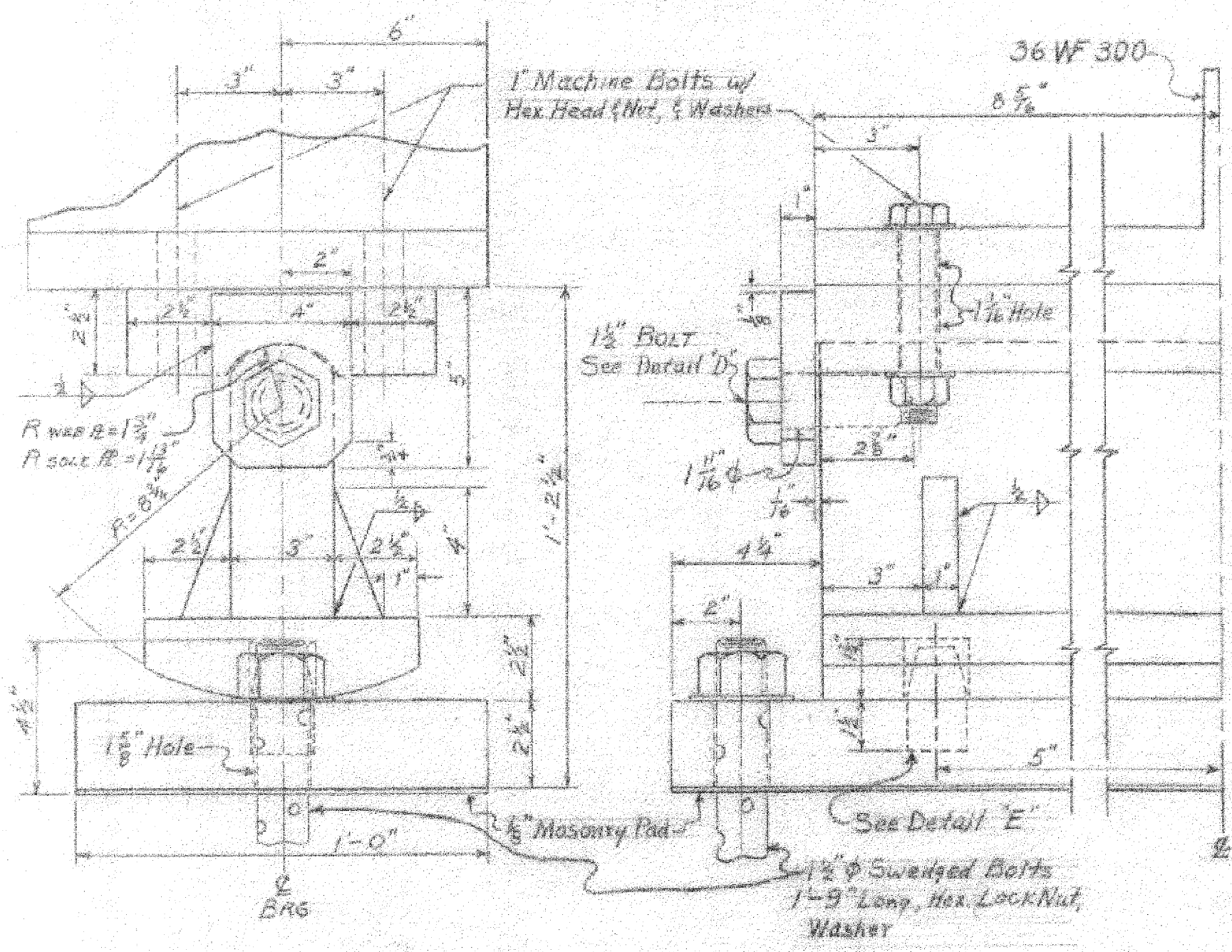
TOWN OF SWANTON HIGHGATE
ROUTE NO. 189 LOG STA. 870+50
SOUTHBOUND LANE
PLAN & ELEVATION VIEWS
ROCK RIVER
SCALE AS NOTED

SURVEYED BY _____
DRAWN BY NBT CHECKED BY L.J.H.
PROJECT NO. 189-3(7) Cont. 3
SHEET 72 OF 113

886 STAGE II PROJECT NO. 189-3(7)
SHEET 80 OF 127

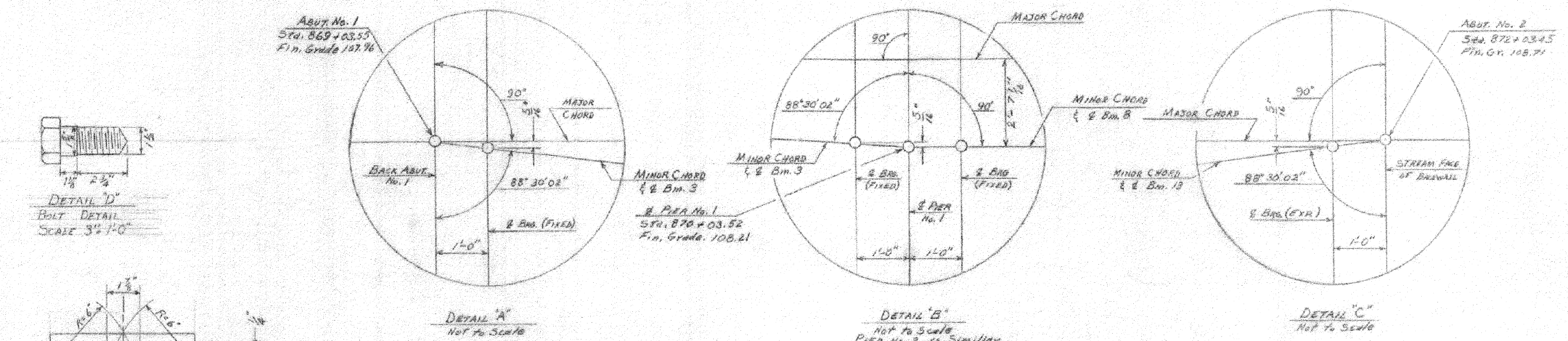


FRAMING PLAN
SCALE 3/8" = 1'-0"



EXPANSION BEARING
SCALE 3" = 1'-0"

REVISIONS
① CHANGED 312-C TO 312-A
5-27-65 RFB



DETAIL "D"
BOLT DETAIL
SCALE 3/4" = 1'-0"

DETAIL "E"
PINTLE DETAIL
SCALE 3" = 1'-0"

- NOTES
- For detail shear connectors see SCB-30-60 & SCB-D-60
 - All diaphragms to be 18x4 L1427 with interior diaphragms perpendicular to the beams of each span. Diaphragms at the piers as per std. sat. SCB-D-60, end of abutment No. 2 as per sheet "EXPANSION END DETAILS". Interior diaphragms as per std. sat. SB-20-60.
 - The center beam in each span is at the minor chord of that span. All beams in each span are parallel.
 - Expansion bearing to be installed in such a position that web will be in a vertical position at a stand temperature of 40°F. See note #2 of "EXPANSION END DETAILS" sheet.
 - EI datum sea level based on nearest U.S. Government Vertical Control.
 - Cross slope of approach slab to conform with the cross slope of bridge.
 - All dimensions given at 68°F.

SUPERSTRUCTURE QUANTITIES

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.	321			
402	REINF. STEEL	LBS.	See Reinforcing Schedule			
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
312A	JOINT SEALER - HOT POURED ①	L.F.	150		STAGE II	
318	TAR EMULSION FOR BRIDGE FLOORS	GAL.	400		STAGE II	
361-B	BIT. CONCRETE TREATMENT	TONS	111		STAGE II	
403	SPIRAL REINFORCEMENT (7650°)	L.S.	1			
504A	STRUCTURAL STEEL	LBS.	697,230			
551-C	GRANITE BRIDGE CURB (MOD.)	L.F.	591			
572	BRIDGE RAILING	L.F.	365			

ST. ALBANS - HIGHGATE
IM BPNT(4)
SHEET 32 OF 32
BRIDGE 100N&S
FOR REFERENCE ONLY

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF SWANTON-HIGHGATE
ROUTE No. 189 LOG STA. 870+50
SOUTHBOUND LANE
FRAMING PLAN & EXP. BRGS.
ROCK RIVER
SCALE As NOTED

SURVEYED BY _____
DRAWN BY RLM CHECKED BY NBT
PROJECT No. 189-3(7) COVERLET 3
SHEET 32 OF 143

667 HIGHGATE STAGE II PROJECT No. 1-59-3 (24)
SHEET 81 OF 127