

INDEX OF SHEETS

1. TITLE
2. PRELIMINARY INFORMATION
3. BRIDGE AND ROADWAY TYPICAL
- 4-5. QUANTITY
6. DRAINAGE SHEET
- 7-8. RIGHT OF WAY
9. LAYOUT
10. PROFILE - MAINLINE
11. PROFILE - SIDELINE
12. TRAFFIC SIGN LAYOUT
13. TRAFFIC SUMMARY SHEET
14. BORING
15. PLAN AND ELEVATION
16. EROSION CONTROL
17. GENERAL NOTES
18. SLAB TYPICAL SECTIONS
19. SLAB REINFORCING PLAN
20. ABUTMENT # 1 DETAILS
21. ABUTMENT # 2 DETAILS
22. WINGWALL DETAILS
23. FOOTING REINFORCING PLAN
24. MISCELLANEOUS DETAILS
25. REINFORCING STEEL SCHEDULE
- 26-29. MAINLINE SECTIONS
- 30-33. CHANNEL SECTIONS

LIST OF STANDARDS

- |          |          |
|----------|----------|
| G-18     | 06-01-94 |
| B-5      | 06-01-94 |
| B-71     | 03-10-95 |
| D-2      | 06-01-94 |
| D-4      | 06-01-94 |
| E-100    | 01-06-97 |
| E-101    | 03-10-97 |
| E-102    | 08-08-95 |
| E-102A   | 08-08-95 |
| E-106    | 08-08-95 |
| E-107    | 08-08-95 |
| E-107A   | 08-08-95 |
| E-121    | 08-08-95 |
| E-143    | 09-20-95 |
| E-160    | 05-20-99 |
| E-164    | 05-20-99 |
| E-191    | 02-01-99 |
| E-193    | 08-18-95 |
| G-1      | 01-03-00 |
| G1d      | 01-03-00 |
| G-4      | 06-01-94 |
| SB-R6-82 | 01-06-95 |
| SB-R7-90 | 01-11-95 |
| T-1      | 06-01-94 |
| T-2      | 06-01-94 |

CONVENTIONAL SYMBOLS

COUNTY LINE	— — — — —
TOWN LINE	— — — — —
LIMITS OF ACCESS	— — — — —
POINT OF ACCESS	X
FENCE LINE	X — X — X — X —
STONE WALL	— — — — —
TRAVELED WAY	— — — — —
GUARD RAIL	— — — — —
RAILROAD	— — — — —
SURVEY LINE	— — — — —
CULVERT	— — — — —
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊕
CONTROL OF ACCESS	— — — — —
PROPERTY LINE	— — — — —
B.L.O.M. TAKING LINE	— — — — —
SLOPE RIGHTS	SR — SR — SR
TOP OF CUT	— — — — —
TOE OF SLOPE	— — — — —

SURVEYED BY :	FELTON
SURVEYED DATE :	1/91
DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



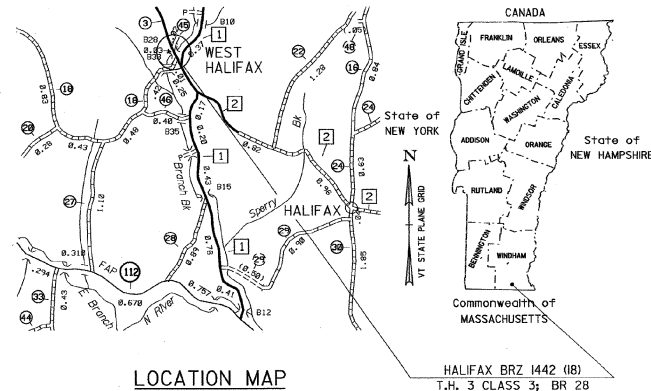
PROPOSED IMPROVEMENT  
BRIDGE PROJECT  
TOWN OF HALIFAX  
COUNTY OF WINDHAM

ROUTE NO : T.H. 3 CLASS 3 BRIDGE NO : 28

PROJECT LOCATION : BEGINNING OF THE INTERSECTION OF T.H. 3 AND T.H. 18 AND EXTENDING NORTHERLY ALONG T.H. 3 FOR 0.066 MILES.

PROJECT DESCRIPTION : CONSTRUCTION OF A NEW STRUCTURE ALONG WITH RELATED ROADWAY APPROACH AND CHANNEL WORK.

LENGTH OF STRUCTURE : 34.00 FEET.  
LENGTH OF ROADWAY : 240.00 FEET.  
LENGTH OF PROJECT : 275.00 FEET.



RECORD PLANS

CONTRACTOR: F.W. WHITCOMB CONSTRUCTION - WALPOLE, NH

RESIDENT ENGINEER: FRED ROSS

CONSTRUCTION BEGAN: JULY 16, 2002

CONSTRUCTION COMPLETE: MAY 21, 2003

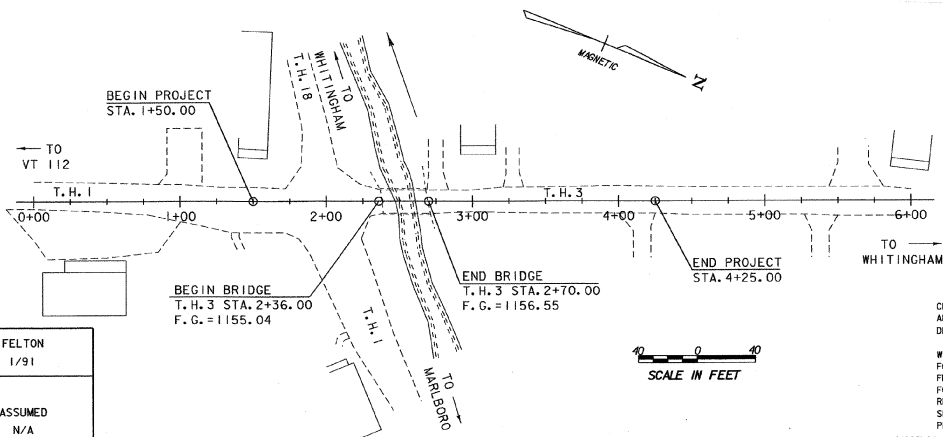
RECORD PLANS BY: F. ROSS, K. NORTH

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY: *[Signature]* RESIDENT ENGINEER

DATE: 2/2/04

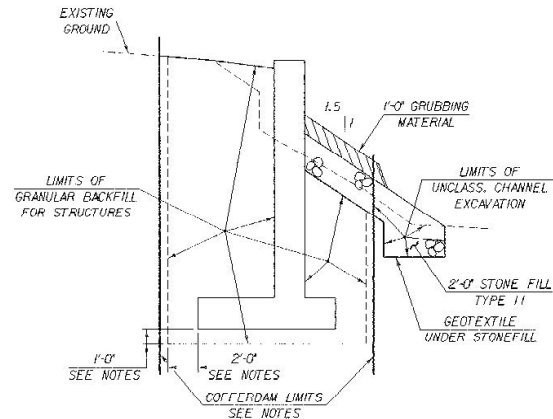
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.



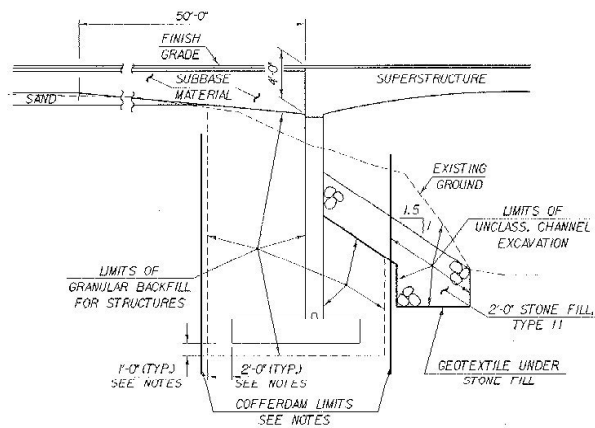
THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROJECT DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

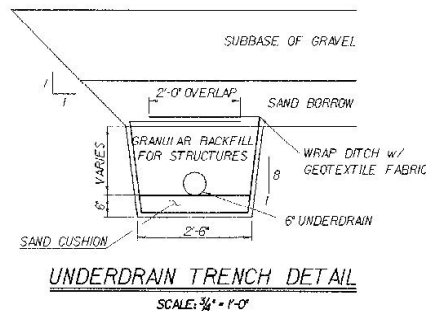
DIRECTOR OF PROJECT DEVELOPMENT	
APPROVED: <i>[Signature]</i>	DATE: <i>[Signature]</i>
PROJECT MANAGER : R. R. WHITCOMB	
PROJECT NAME : HALIFAX	
PROJECT NUMBER : BRZ 1442 (18)	
SHEET 1 OF 33 SHEETS	



**WINGWALL EARTHWORK TYPICAL**  
(NOT TO SCALE)



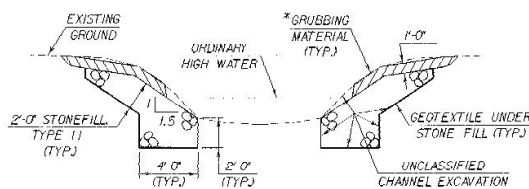
**TYPICAL ABUTMENT SECTION**  
(NOT TO SCALE)



**UNDERDRAIN TRENCH DETAIL**  
SCALE: 3/4" = 1'-0"

**NOTES**

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



**TYPICAL CHANNEL SECTION**  
(NOT TO SCALE)

\* GRUBBING MATERIAL SHALL NOT BE PLACED ON THE STONE FILL IN THE AREA UNDER THE BRIDGE, WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE. GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

**EXISTING STRUCTURE**

1. STRUCTURE TYPE	CONCRETE BOX ARCH STRUCTURE	OVERALL LENGTH	34 FT	INVENTORY RATING	H-5
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS			3 FT		
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM			27.5 FT		
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	200 SQ FT	VERTICAL CLEARANCE ABOVE STREAMBED	8 FT		
5. WATER SURFACE ELEVATION @ 0.25'		WATER SURFACE ELEVATION @ 0'			
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD		YEAR		ESTIMATED DISCHARGE	
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?					
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	UNKNOWN				
9. DISPOSITION OF STRUCTURE		REMOVE			

**NEW STRUCTURE**

1. STRUCTURE TYPE	SINGLE SPAN CONCRETE SLAB	OVERALL LENGTH	34 FT
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS			34 FT
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER			8.0 FT
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM			26.0 FT
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)			260 SQ FT
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?			YES

STRUCTURE GEOMETRY:			
1. STRUCTURE TYPE	SINGLE SPAN CONCRETE SLAB	OVERALL LENGTH	34 FT
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS			34 FT
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER			8.0 FT
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM			26.0 FT
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)			260 SQ FT
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?			YES

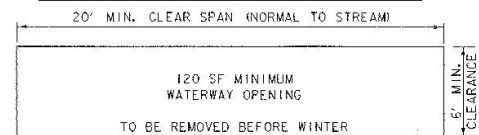
HYDRAULIC DATA:					
1. 0.25'	350 CFS	WATER ELEVATION	448.8	VELOCITY	
0.10'	700 CFS	WATER ELEVATION	448.7	VELOCITY	
0.25'	1050 CFS	WATER ELEVATION	450.5	VELOCITY	6.7 FPS
0.50'	1500 CFS	WATER ELEVATION	452.1	VELOCITY	
1.00'	2000 CFS	WATER ELEVATION	452.7	VELOCITY	

2. DRAINAGE AREA
 5.0 SQ MI | CHARACTER OF TERRAIN |  | WATER TO MOUNTAINS |
3. ARE THERE OBJECTIONS TO A PIECE IN THE STREAM?
  |  |  |  |
4. DOES STREAM REACH ITS MAXIMUM HEAD WATER ELEVATION RAPIDLY?
  | IS (INDICATE) RISE RAPID? |  |  |
5. NATURE OF NATURAL STREAMBED
  | GRAVEL, LOGS, AND Boulders |  |  |
6. ESTIMATED SCOUR DEPTH
 5 FT | COMMENT ON DRIFT |  |  |
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?
  |  |  |  |
8. ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF
  |  |  |  |
9. VERTICAL CLEARANCE ABOVE 0.00'
 10' |  |  |  |
10. ALLOWABLE WATER SURFACE ELEVATION
 452.7 | LIMITED BY | BOTTOM OF SLAB |  |
11. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? IF YES, DESCRIBE
  |  |  |  |
12. AVERAGE DAILY FLOW
 50 CFS | DEPTH | 0.5 FT | ORDINARY HEAD WATER | 2.5 FT |
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE
  | SPAN |  | WATERWAY AREA OF FULL OPENING | 0 |
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE
  | SPAN |  | WATERWAY AREA OF FULL OPENING | 0 |

- ALLOWABLE STRESSES:
1. DESIGN LIVE LOAD
 HS-20-44 |
  2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL
 4 KSF (ASSUMED) ON LEDE |
  3. ALLOWABLE LOAD FOR PILING
  | TYPE |  | ESTIMATED LENGTH |  |
  4. ALLOWABLE STRESS FOR STRUCTURAL STEEL
 ARSHO | TENSION |  |  |  |
  5. ALLOWABLE STRESS FOR REINFORCING STEEL
 GRADE 60 | TENSION | 24,000 PSI | COMPRESSION | 20,000 PSI |
  6. MINIMUM STRENGTH FOR CONCRETE
 CLASS A | 45 HPC | 3500 PSI | CLASS B | 40 HPC | 3000 PSI |
- TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED?
 NO | IF YES, ON EXISTING STRUCTURE |  | OR ON TEMPORARY BRIDGE |  |
  2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY
  | TRAFFIC CONTROL SIGNALS REQUIRED |  | MINIMUM CLEAR SPAN |  | MINIMUM CLEAR HEIGHT |  | MINIMUM WATERWAY AREA |  |

HPC = HIGH PERFORMANCE CONCRETE

**ADDITIONAL DESIGN CONSIDERATIONS**

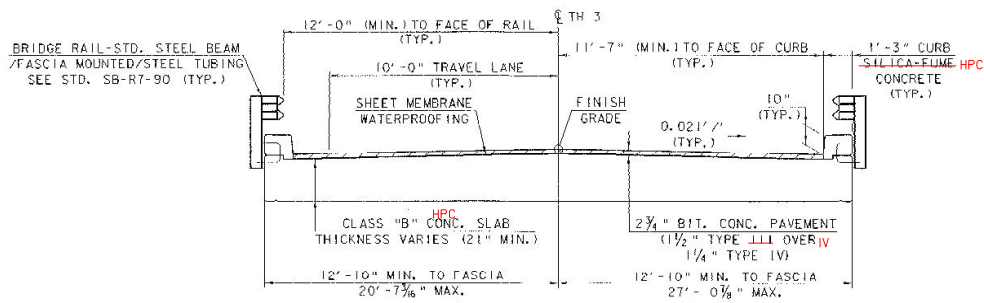


**HYDRAULIC REQUIREMENTS FOR TEMPORARY PEDESTRIAN BRIDGE**

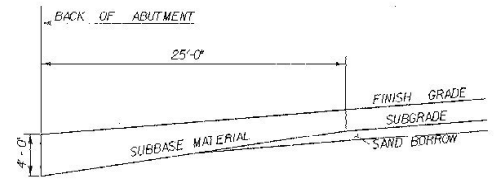
(NOT TO SCALE)

NOTE: THE CONTRACTOR SHALL NOT CUT EXISTING STREAM BANKS TO PROVIDE THE MINIMUM WATERWAY OPENING. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

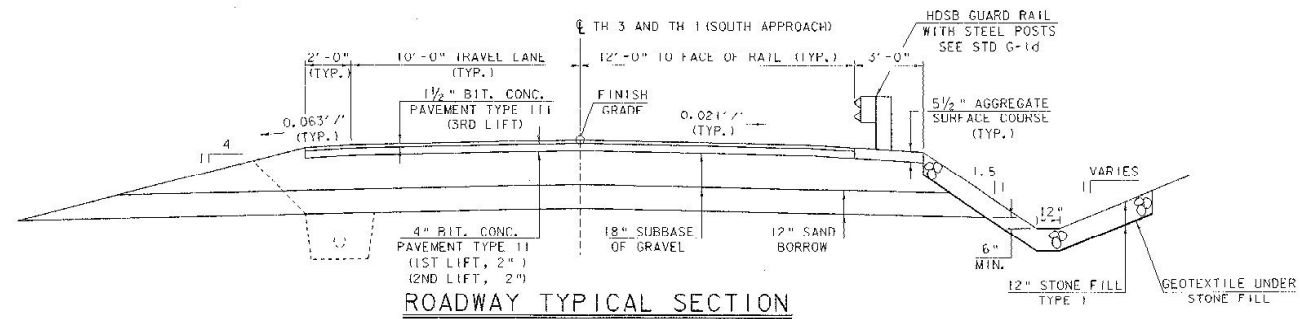
LOAD FACTOR LOAD RATING (TONS)										STATE OF VERMONT AGENCY OF TRANSPORTATION									
LOADING LEVELS		TRUCK																	
LOAD FACTOR		10	15	20	25	30	35	40	45	50	Town Of		HALIFAX		Bridge No.		28		
REQ. LT		39	59								Highway No.		T. H. 3		Leg. Sta.		Surv. Sta.		
POSTER		54	83	107			63	66	107	T. H. 3 OVER THE BRANCH BRIDGE		PRELIMINARY INFORMATION							
OPERATING		99	127	119	75	78					Designed By		T. SUMNER		Drawn By		G. ROY / J. LANZETTA		
STRENGTH		2.0		1.3		1.0		0.7		TRAFFIC DATA		Checked By		T. SUMNER		Date		12/98	
YEAR		ADT		DHW		Z D		Z T		ADTT		Project Manager		R. R. WHITCOMB		Date		12/98	
1996		280		40		-		<1		10		PROJECT		HALIFAX		PROJECT NO.		BRZ 1442 (18)	
2016		300		55		62		11		20		I.G.C. Info.		89 (1982) Structures/1092/01/00		Sheet		2 of 33	
18 kip EAL for Flexible pavement from 1995 to 2016		200,000		18 kip EAL for Flexible pavement from 1995 to 2036		400,000		Design speed		50 mph		PLOTTED		17 NOV 2000					



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



**SUBBASE DETAIL AT ABUTMENTS**  
(ELEVATION IN CUT AND FILL NOT TO SCALE)



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

MATERIAL ITEM	TOLERANCE
PAVEMENT	± 1/4" TOTAL THICKNESS
AGGREGATE SURFACE COURSE	± 1/2"
BASE COURSE	± 1/2"
SUBBASE	± 1"
SAND BORROW	± 1"
GRANULAR BORROW	± 1"

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of	HALIFAX	Bridge No.	28
Highway No.	T.H. 3	Surv. Sta.	2-53
<b>T.H. 3 OVER THE BRANCH BROOK</b>			
<b>BRIDGE &amp; ROADWAY TYPICAL SECTIONS</b>			
Designed By	T. SUMNER	Drawn By	G. ROY / J. ARMSTRONG
Checked By	Date	Project Manager	
T. SUMNER	12/98	R. R. WHITCOMB	Date 12/98
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
LG.C:\info.88\092\structures\as\092p11.dgn		s\092typ.1	
Bridge Sheet No.	Sheet 3 of 33		

# QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES		
	FILL C&E ITEMS	EROSION CONTROL	CHANNEL	ROADWAY	ABUTMENT NO.2	ABUTMENT NO.1	SLAB	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
				1						1		LS	CLEARING AND DRUBBING (INCLUDING INDIVIDUAL TREES AND STUMPS)	201.10			
				1490						1490		CY	COMMON EXCAVATION	203.15			* TEMPORARY EROSION CONTROL ITEMS * (INCLUDED IN EROSION CONTROL QUANTITY)
			70							70		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27			
				420						420		CY	SAND BORROW	203.31	30	CY	301.15 SUBBASE OF GRAVEL
		10		190						200		CY	TRENCH EXCAVATION OF EARTH	204.20	1	HR	605.25 ALL PURPOSE EXCAVATOR, TYPE 1 (N.A.B.I.)
				60	320	230				660		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	10	CY	613.10 STONE FILL, TYPE I
					460	490				970		CY	COFFERDAM EXCAVATION, EARTH	206.30	200	CY	649.51 GEOTEXTILE FOR SILT FENCE
					40	30				70		CY	COFFERDAM EXCAVATION, ROCK	208.33	10	LBS	654.17 GEOE - WINTER EVE
						1				1		LS	COFFERDAM ( STA. 2 + 38 )	208.40	64	EACH	681.26 HAY BALES FOR EROSION CONTROL
					1					1		LS	COFFERDAM ( STA. 2 + 70 )	208.40	10	CY	684.10 EROSION MATTING
				170						170		SY	COLD PLANING-BIT PAVEMENT	210.10			
	30			520						600		CY	SUBBASE OF GRAVEL	301.15			
				40						40		CY	AGGREGATE SURFACE COURSE	401.10			* EARTHWORKS SUMMARY *
				4.7			0.3			0.3		QWT	EMULSIFIED ASPHALT	404.85	0	CY	FILL REQUIRED
				485			17			480		TON	BITUMINOUS CONCRETE PAVEMENT (FG 58-34)	408.25			FILL AVAILABLE
				11	82	80	106			268		CY	CONCRETE, CLASS B	501.23	1480	CY	COMMON EXCAVATION
							4			4		CY	SILICA-FUME CONCRETE - HPC CLASS A	501.80	870	CY	COFFERDAM EXCAVATION, EARTH
				150	11250	11340	16800			39560		LB	EPOXY COATED REINFORCING STEEL	507.17	190	CY	TRENCH EXCAVATION OF EARTH
					4	4	4			12		GAL	WATER REPELLENT	514.10	70	CY	UNCLASSIFIED CHANNEL EXCAVATION SUBTOTAL
							110			110		SY	SHEET MEMBRANE WATERPROOFING	519.20	2720		
							88			88		LF	BRIDGE RAILING-HDSB / FASCIA MOUNTED / STEEL TUBING	525.44	0		ROUNDING
							1			1		LS	TEMPORARY FOOT BRIDGE	528.12	2720	CY	TOTAL
							64			64		SY	REMOVAL OF BRIDGE PAVEMENT	529.10			WASTE
							1			1		EACH	REMOVAL OF STRUCTURE	529.15			
													*** BEGIN PIPE OPTIONS ***				
				36						36		LF	15" CSP .679 (2-2/8 X 1/2)	601.0011			
				1						1		EACH	15" CSPES 064 ( 2-2/8 X 1/2 )	601.6010			
				36						36		LF	15" CPES(BL)	601.2810			
				1						1		EACH	15" CPES	601.7010			
				52						52		LF	30" GAAP .108 (2-2/8 X 1/2)	601.0237			
				62						62		LF	30" FCCSP .109 (2-2/8 X 1/2)	601.0437			
													*** END PIPE OPTIONS ***				
				113						113		LF	6" UNDERDRAIN	606.10			
				42						42		LF	6" UNDERDRAIN CARRIER PIPE	606.20			
				1						1		EACH	UNDERDRAIN FLUSHING BASIN	606.35			
		1								1		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE 1 (N.A.B.I.)	608.25			
				60						60		MGAL	DUST CONTROL WITH WATER	609.10			
		10		80						70		CY	STONE FILL, TYPE I	613.15			
					80	70				150		CY	STONE FILL, TYPE II	613.11			
				4						4		EACH	WOOD MARKER POSTS	619.15			

# QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES											TOTALS			DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES		
	FULL C&E ITEMS	EROSION CONTROL	CHANNEL	ROADWAY	ADJUTMENT NO.2	ADJUTMENT NO.1	SLAB	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
				60						60		LF	SNOW FENCE	620.70				
				208						208		LF	HVY DUTY STEEL BEAM GUARD RAIL	621.21				
				4						4		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60				
				100						100		LF	TEMPORARY TRAFFIC BARRIER	621.90				
				400						400		HR	FLAGGERS	630.15				
	1									1		LS	FIELD OFFICE-ENGINEERS	631.10				
	1									1		LS	TESTING EQUIPMENT - CONCRETE	631.16				
	1									1		LS	TESTING EQUIPMENT - BITUMINOUS	631.17				
	1									1		LS	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25				
							1	1		1		LS	MOBILIZATION	635.10				
				56						56		LF	DURABLE 24" STOP BAR	646.48				
				8						8		EACH	DURABLE LETTER OR SYMBOL	646.50				
			200	200				200		400		SY	GEOTEXTILE UNDER STONE FILL	649.31				
				210						210		SY	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.41				
		200								200		SY	GEOTEXTILE FOR SILT FENCE	649.51				
		100								100		SY	GEOTEXTILE FOR FILTER CURTAIN	649.61				
		10								10		LB	SEED	651.15				
		10								10		LB	SEED-WINTER RYE	651.17				
		50								50		LB	FERTILIZER	651.18				
		0.5								0.5		TON	AGRICULTURAL LIMESTONE	651.20				
		0.5								0.5		TON	HAY MULCH	651.25				
		64								64		EACH	HAY BALES FOR EROSION CONTROL	651.26				
		90								90		CY	TOPSOIL	651.35				
		90								90		SY	GRUBBING MATERIAL	651.40				
		10								10		SY	EROSION MATTING	654.10				
				13						13		SF	TRAFFIC SIGNS, TYPE A	675.20				
				28						28		LF	FLANGED CHANNEL SIGN POSTS	675.301				
				4						4		EACH	REMOVING SIGNS	675.50				



**TABLE OF PROJECT PROPERTY ACQUISITION**

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

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1A	COOK, LUCILLE W.	9	TH#3 2+22 LT. REV. TH#18 18+40 LT. REV. TH#18 18+50 LT.	TH#3 2+45 LT. TH#3 2+42 LT. TH#3 2+22 LT.	170 SF±		CONST. (T) 475 SF± INSTALL (T) 385 SF±	WD	07-27-00	HALIFAX	45	43-44	EROSION CONTROL (SETTLING BASIN & FENCE)	1	6,7	PARCEL NO. 4 GLICKMAN. CHANGE NAME FROM *GLICKMAN, MAURICE & LILLIAN* TO *MAURICE GLICKMAN, M.D. OR LILLIAN GLICKMAN, TRUSTEES U/D/T DATED FEBRUARY 23, 1990, F/B/O THE GLICKMAN FAMILY*. PER C.O. 8588.	08-12-94	C. C. P.	L. W. B.
2A	HALIFAX COMMUNITY CLUB, INC.	9	REV. TH#1 19+35 LT. REV. TH#1 19+48 LT. REV. TH#1 19+52 LT. REV. TH#1 19+64 LT.	REV. TH#1 19+48 LT. REV. TH#1 19+52 LT. REV. TH#1 19+59 LT. REV. TH#3 2+55 RT.	61 SF±		CHANNEL (P) 24 SF± DETOUR (T) 200 SF± INSTALL (T)			HALIFAX			PEDESTRIAN BRIDGE EROSION CONTROL	2	6,7	PARCEL NO. 4 RAFUS, NAME CHANGE (NEW OWNERSHIP) - FORMERLY GLICKMAN. NEW OWNER IS: RAFUS, THOMAS D. & BETTY E. PER C.O. 8638.	01-25-95	P. J. H.	L. W. B.
2B			TH#1 1+81 RT.	TH#1 19+58 RT.			SLOPE (T) 100 SF±							3	9	PARCEL NO. 3 WHITEHORN. ADD TREES, BUSHES AND FLOWER BED TO TOPO. PER C.O. 9061.	08-13-99	B. A. H.	L. W. B.
3	WHITEHORNE, JEFFREY R. & ANNA C.	9	TH#3 2+42 LT. REV. TH#18 18+31 LT. TH#3 2+67 LT. TH#3 2+75 LT. TH#3 3+28 LT. TH#3 4+06 LT.	TH#3 2+68 LT. TH#18 18+76 LT. TH#3 2+73 LT. TH#3 4+18 LT.	350 SF±		CONST. (T) 45 SF± CONST. (T) 87 SF± DRIVE (T) DRIVE (T) CONST. (T) 145 SF±	WDEE	05-05-00	HALIFAX	44	500-501	12" GRAVEL 10' GRAVEL	4	9	PARCEL NO. 4 PIKE. REMOVE THE FOLLOWING TOPO: 2-18" PINES. NOTE THAT WALL IS *BURIED.* PER C.O. 9062.	08-13-99	B. A. H.	L. W. B.
4	DANN, ROGER E. & BETTY J.	9	TH#3 2+57 RT. TH#3 2+64 RT. TH#3 2+64 RT. TH#3 2+79 RT. TH#3 3+24 RT.	TH#3 2+85 RT. TH#3 3+24 RT. TH#3 2+80 RT. TH#3 3+89 RT. TH#3 3+90 RT.			DETOUR (T) 170 SF± INSTALL (T) CHANNEL (P) 45 SF± DITCH & DRAINAGE (P) 540 SF± CONST. (T) 620 SF±						PEDESTRIAN BRIDGE EROSION CONTROL	5	8,9	PARCEL NO. 8 HALIFAX FIRE COMPANY. REMOVE HYDRANT TOPO AND DELETE PARCEL. PER C.O. 9063.	08-13-99	B. A. H.	L. W. B.
5	WITTE, TRAUTMAN G. WITTE, WALTRAUT - LIFE ESTATE	9	TH#3 4+19 LT. TH#3 4+18 LT.	TH#3 4+31 LT. TH#3 4+48 LT.			DITCH (P) 35 SF± CONST. (T) 290 SF±							6	8,9	PARCEL NO. 3 WHITEHORNE. CHANGE *JEFFERY* TO *JEFFREY*. PER C.O. 9085.	11-24-99	R. B. K.	L. W. B.
6	NYNEX												UTILITY	7	9	PARCEL NO. 3 WHITEHORNE. REMOVE PORTION OF CONSTRUCTION EASEMENT TO SAVE TWO MAPLE TREES. PER C.O. 9086.	12-23-99	R. B. K.	L. W. B.
7	VERMONT ELECTRIC CO-OPERATIVE												UTILITY	8	8,9	PARCEL NO. 5 WITTE. CHANGE OWNER TO TRAUTMAN G. WITTE AND WITTE, WALTRAUT - LIFE ESTATE. PER C.O. 9089.	01-28-00	M. J. R.	R. P. D.
8	DELETED												FORMERLY HALIFAX FIRE CO., INC.	9	8,9	PARCEL NO. 4 PIKE. CHANGE TITLE TO DANN, ROGER E. & BETTY J. PER C.O. 9098.	03-03-00	M. J. R.	R. P. D.
														10	8,9	PARCEL NO. 1A COOK. DELETE SLOPE(T) TH#1 1+62 LT. -REV. TH#18 18+61 RT. (96 SF). DELETE DRIVE(T) TH#1 1+03 LT. CHANGE PARCEL 1A TO PARCEL 1. MOVE THE RIGHTS ASSOCIATED WITH SUB-PARCEL 1B TO PARCEL 1. PER C.O. 9115.	05-31-00	R. B. K.	R. P. D.

ACCT.SDearochers  
M:\89\092\RightofWay\1092d.dgn  
DATE PLOTTED 11-SEP-2000

DR. (P)- DRAINAGE RIGHT  
DIT. (P)- DITCHING RIGHT  
CH. (P)- CHANNEL RT.  
DRIVE (T)- DRIVE RIGHT  
CUL. (P)- CULVERT RIGHT  
W]- WATER SOURCES

PRESENT R.O.W.  
TAKING WITHOUT ACCESS  
TAKING WITHOUT ACCESS ALONG PROPERTY LINE  
TAKING WITH ACCESS  
PERMANENT EASEMENT  
TEMPORARY EASEMENT

LEGEND  
--- C&T (P) --- CLEARING & TRIMMING  
... CZ (P) ... CLEAR ZONE  
--- CONST. EASEMENT --- CONSTRUCTION EASEMENT  
SR SR SLOPE RIGHTS  
P PROPERTY LINE  
-▲- TOP OF CUT  
-○- TOE OF SLOPE

APPROVED: LAWRENCE BLISS DATE: 03-12-99  
AGENT D, PLANS & TITLES

R. O. W. PLANS  
HALIFAX  
BRZ 1442(18)  
SHEET 7 OF 33

**BRIDGE RAILING: STD. STEEL BEAM/  
FASCIA MOUNTED/STEEL TUBING**

ML STA. 2+29 LT - ML STA. 2+67 LT  
ML STA. 2+40 RT - ML STA. 2+77 RT

**HD STEEL BEAM GUARD RAIL**

REV. SL STA. 18+59 LT - ML STA. 2+29 LT  
ML STA. 2+67 LT - ML STA. 2+68 LT  
REV. SL STA. 19+87 LT - ML STA. 2+40 RT  
ML STA. 2+77 RT - ML STA. 3+45 RT

**ANCHOR FOR STEEL BEAM RAIL**

REV. SL STA. 18+67 LT  
REV. SL STA. 19+80 LT  
ML STA. 3+37 RT

**CONSTRUCT TYPE I STONE LINED DITCH  
w/ GEOTEXTILE UNDER STONE FILL**

ML STA. 2+75 RT - ML STA. 3+92 RT

**CONSTRUCT DITCH**

ML STA. 4+33 RT - ML STA. 4+62 RT

**REMOVE SMALL TREES**

ML STA. 1+72, 18' LT, 24" MAPLE  
ML STA. 2+24, 23' LT, 18" MAPLE  
ML STA. 4+25, 6" MAPLE

**WOOD GUIDE POST**

ML STA. 1+65 LT  
ML STA. 1+73 LT  
ML STA. 1+78 LT  
ML STA. 1+82 RT

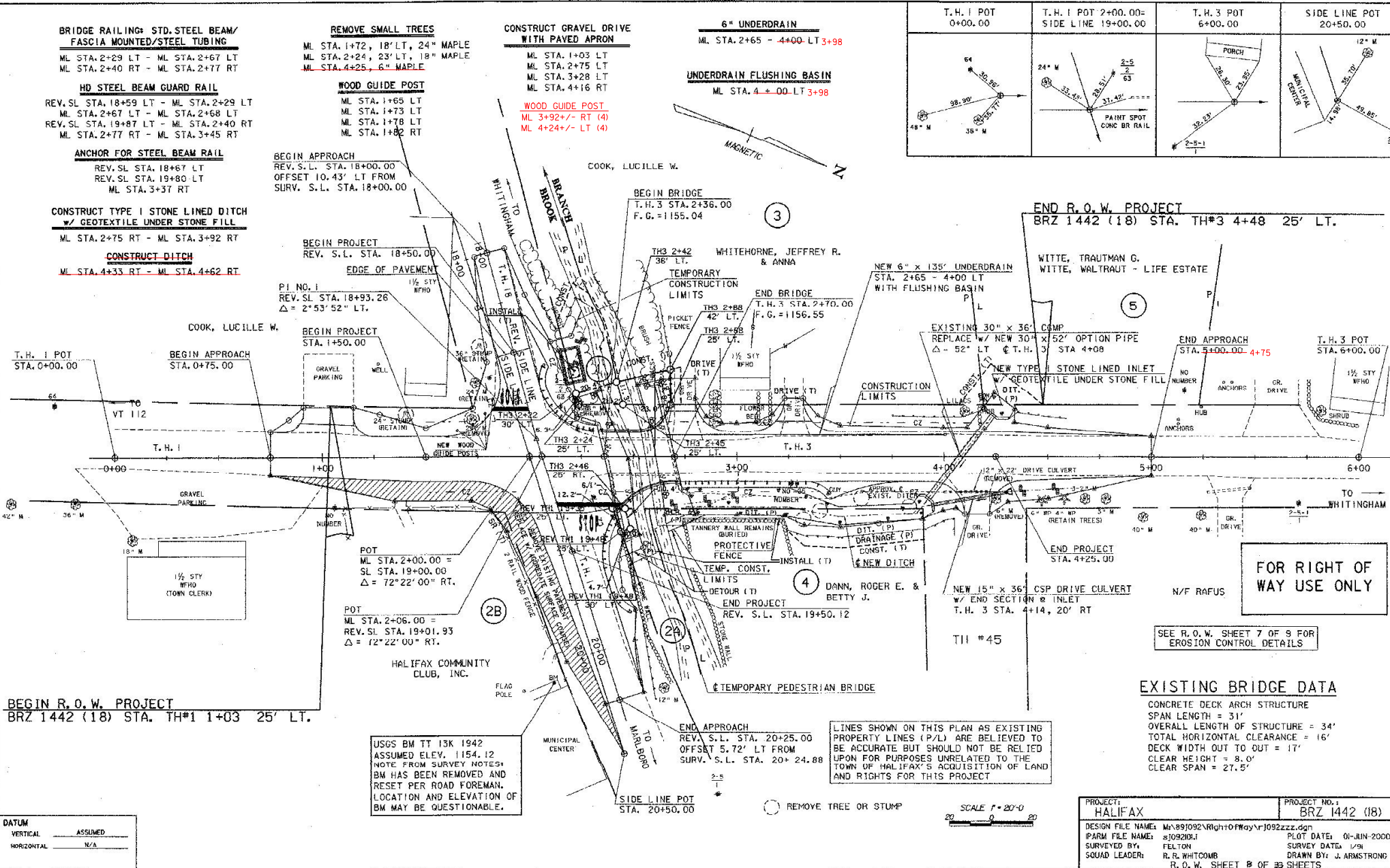
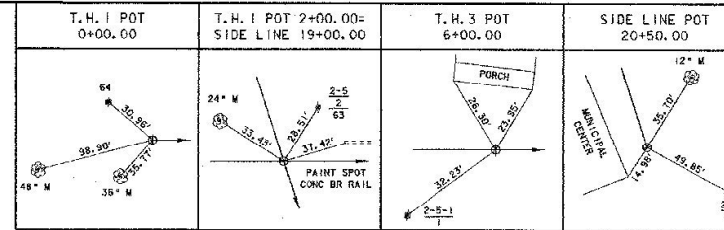
**CONSTRUCT GRAVEL DRIVE  
WITH PAVED APRON**

ML STA. 1+03 LT  
ML STA. 2+75 LT  
ML STA. 3+28 LT  
ML STA. 4+16 RT

WOOD GUIDE POST  
ML 3+92+/- RT (4)  
ML 4+24+/- LT (4)

**6" UNDERDRAIN  
ML STA. 2+65 - 4+00 LT 3+98**

**UNDERDRAIN FLUSHING BASIN  
ML STA. 4 + 00 LT 3+98**



**BEGIN R.O.W. PROJECT  
BRZ 1442 (18) STA. TH#1 1+03 25' LT.**

DATUM	VERTICAL	ASSUMED
	HORIZONTAL	N/A

USGS BM TT 13K 1942  
ASSUMED ELEV. 1154.12  
NOTE FROM SURVEY NOTES:  
BM HAS BEEN REMOVED AND  
RESET PER ROAD FOREMAN.  
LOCATION AND ELEVATION OF  
BM MAY BE QUESTIONABLE.

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES (P/L) ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
TOWN OF HALIFAX'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT

SEE R.O.W. SHEET 7 OF 9 FOR  
EROSION CONTROL DETAILS

**EXISTING BRIDGE DATA**

CONCRETE DECK ARCH STRUCTURE  
SPAN LENGTH = 31'  
OVERALL LENGTH OF STRUCTURE = 34'  
TOTAL HORIZONTAL CLEARANCE = 16'  
DECK WIDTH OUT TO OUT = 17'  
CLEAR HEIGHT = 8.0'  
CLEAR SPAN = 27.5'

**FOR RIGHT OF  
WAY USE ONLY**

PROJECT: <b>HALIFAX</b>	PROJECT NO.: <b>BRZ 1442 (18)</b>
DESIGN FILE NAME: M:\891092\RightOfWay\1092zzz.dgn	PLOT DATE: 01-JUN-2000
PARM FILE NAME: 1092004	SURVEY DATE: 1/98
SURVEYED BY: SQUAD LEADER:	DRAWN BY: J. ARMSTRONG
R. O. W. SHEET 8 OF 35 SHEETS	

**BRIDGE RAILING: HD STEEL BEAM/  
FASCIA MOUNTED/STEEL TUBING**

ML STA. 2+29 LT - ML STA. 2+67 LT  
ML STA. 2+40 RT - ML STA. 2+77 RT

**HD STEEL BEAM GUARD RAIL**

REV. SL STA. 18+59 LT - ML STA. 2+29 LT  
ML STA. 2+67 LT - ML STA. 2+68 LT  
REV. SL STA. 19+87 LT - ML STA. 2+40 RT  
ML STA. 2+77 RT - ML STA. 3+45 RT

**ANCHOR FOR STEEL BEAM RAIL**

REV. SL STA. 18+67 LT  
REV. SL STA. 19+80 LT  
ML STA. 3+37 RT

**CONSTRUCT TYPE I STONE LINED DITCH  
w/ GEOTEXTILE UNDER STONE FILL**

ML STA. 2+75 RT - ML STA. 3+92 RT

**CONSTRUCT DITCH**

ML STA. 4+35 RT - ML STA. 4+62 RT

**REMOVE SMALL TREES**

ML STA. 1+72, 18" LT, 24" MAPLE  
ML STA. 2+24, 23" LT, 18" MAPLE  
ML STA. 4+25, 6" MAPLE

**WOOD MARKER POST**

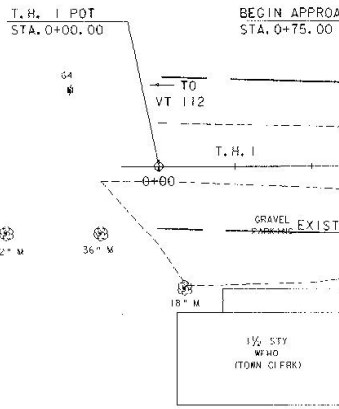
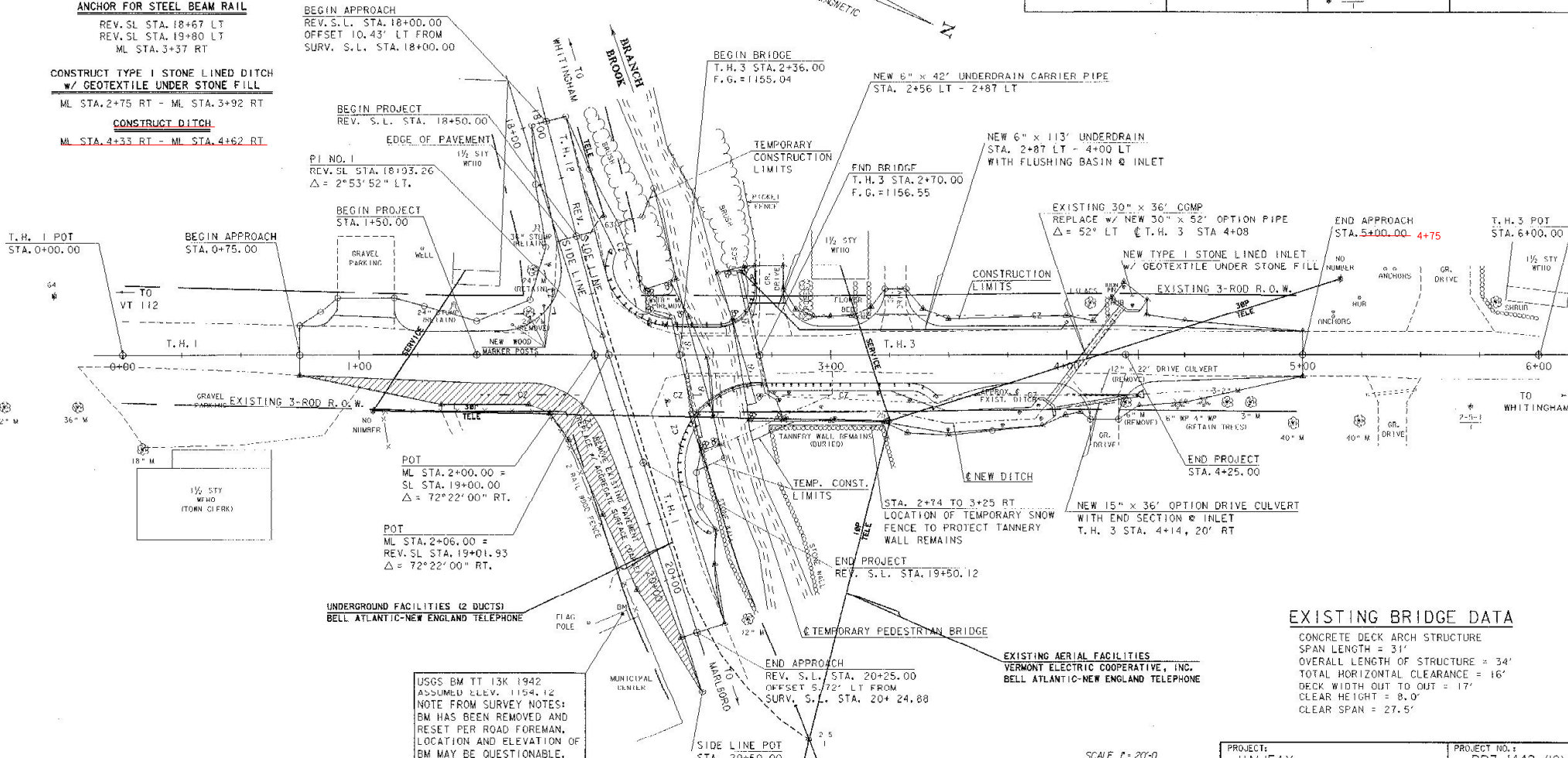
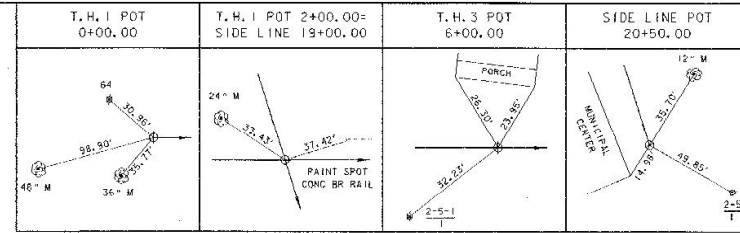
ML STA. 1+65 LT  
ML STA. 1+73 LT  
ML STA. 1+78 LT  
ML STA. 1+82 LT

**CONSTRUCT GRAVEL DRIVE  
WITH PAVED APRON**

ML STA. 1+03 LT  
ML STA. 2+75 LT  
ML STA. 3+28 LT  
ML STA. 4+16 RT

**WOOD GUIDE POST**  
ML 3+92 +/- RT (4)  
ML 4+24 +/- LT (4)

3+98  
3+98



DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A

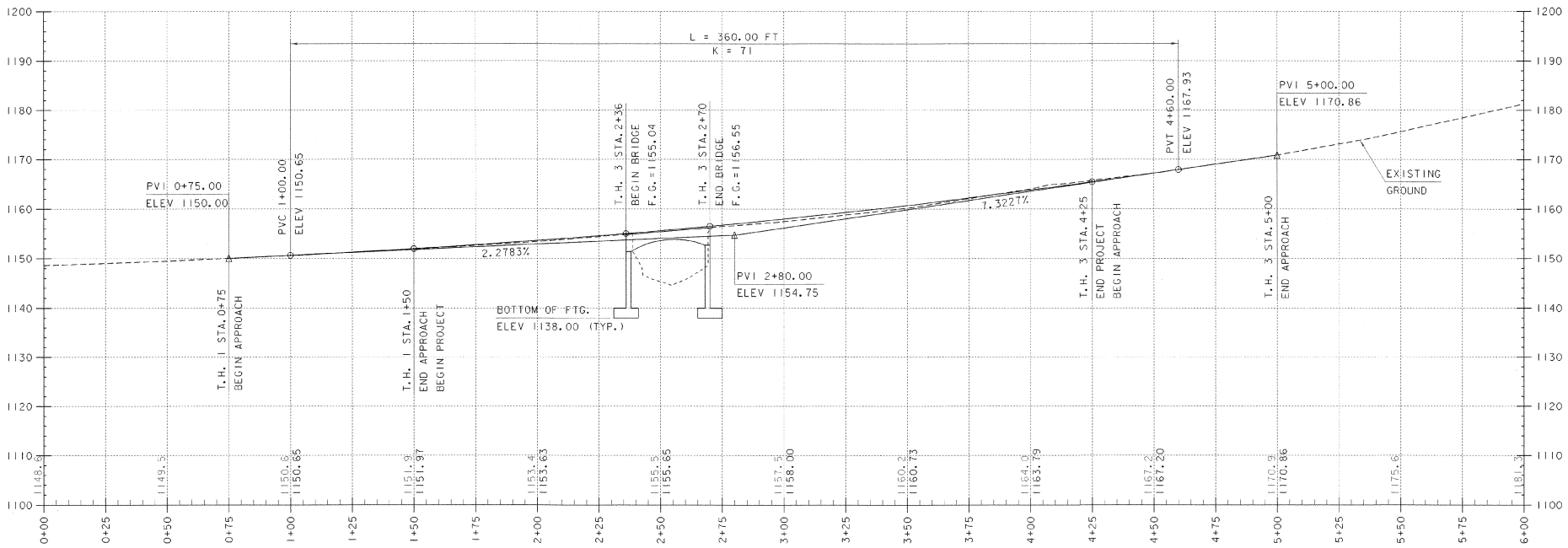
USGS BM TT 13K 1942  
ASSUMED ELEV. 1154.12  
NOTE FROM SURVEY NOTES:  
BM HAS BEEN REMOVED AND  
RESET PER ROAD FOREMAN.  
LOCATION AND ELEVATION OF  
BM MAY BE QUESTIONABLE.

SCALE 1" = 20'-0"  
20 0 20

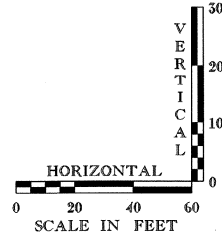
**EXISTING BRIDGE DATA**  
CONCRETE DECK ARCH STRUCTURE  
SPAN LENGTH = 31'  
OVERALL LENGTH OF STRUCTURE = 34'  
TOTAL HORIZONTAL CLEARANCE = 16'  
DECK WIDTH OUT TO OUT = 17'  
CLEAR HEIGHT = 8.0'  
CLEAR SPAN = 27.5'

PROJECT: <b>HALIFAX</b>	PROJECT NO. 1: <b>BRZ 1442 (18)</b>
DESIGN FILE NAME: 89j092\structures\ej092bdr.dgn IPARM FILE NAME: sj092i0i1 SURVEYED BY: FELTON PROJECT MANAGER: R. R. WHITCOMB LAYOUT SHEET	PLOT DATE: 17-NOV-2000 SURVEY DATE: 1/99 DRAWN BY: J. ARMSTRONG SHEET: 9 OF 33

# MAINLINE PROFILE



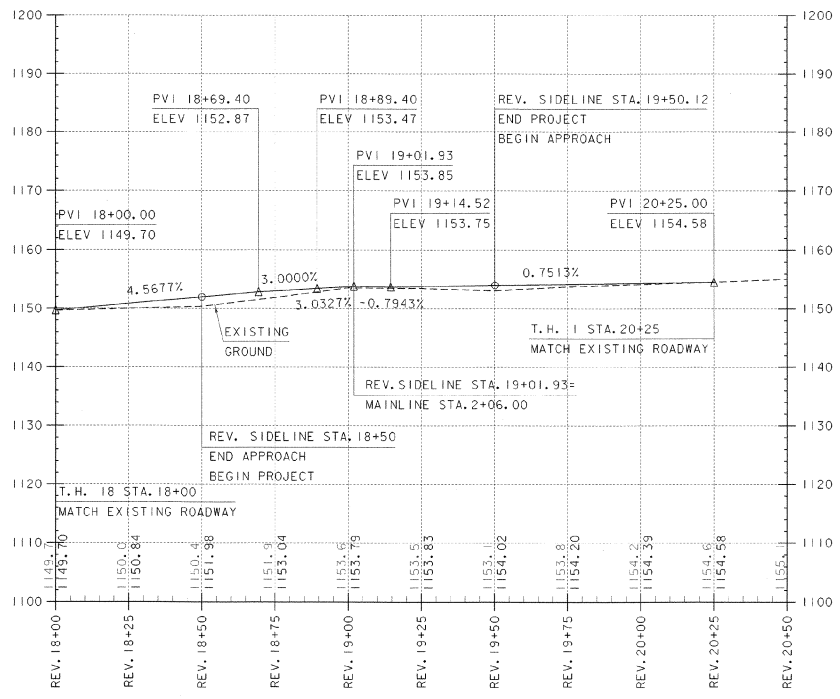
DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A



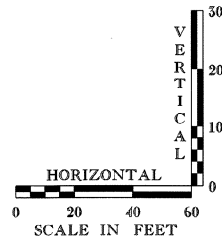
NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE  
 EXISTING GROUND ALONG REVISED CENTERLINE.  
 GRADES SHOWN TO THE NEAREST HUNDREDTH  
 ARE FINISH GRADE ALONG REVISED CENTERLINE.

PROJECT: <b>HALIFAX</b>	PROJECT NO.: <b>BRZ 1442 (18)</b>
DESIGN FILE NAME: 89j092\structures\sj092xsl.dgn	PLOT DATE: 17-NOV-2000
IPARM FILE NAME: sj092p.rli	SURVEY DATE: 1/91
SURVEYED BY: FELTON	DRAWN BY: G. ROY
PROJECT MANAGER: R.R. WHITCOMB	SHEET: 10 OF 33
MAINLINE PROFILE SHEET	

# SIDELINE PROFILE



DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A



NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE  
EXISTING GROUND ALONG REVISED CENTERLINE.  
GRADES SHOWN TO THE NEAREST HUNDRETH  
ARE FINISH GRADE ALONG REVISED CENTERLINE.

PROJECT: HALIFAX	PROJECT NO.: BRZ 1442 (18)
DESIGN FILE NAME: 891092\structures\sj092.xsl.dgn	PLOT DATE: 17-NOV-2000
IPARM FILE NAME: sj092p.f2.1	SURVEYED BY: FELTON
PROJECT MANAGER: R.R. WHITCOMB	DRAWN BY: G. ROY
SIDELINE PROFILE SHEET	SHEET: II OF 33

**REMOVE SIGNS**

ML STA. 2+23, 13' LT  
 ML STA. 2+30, 12' LT  
 REV. SL STA. 18+59, 14' RT  
 REV. SL STA. 19+28, 18' LT

**TRAFFIC SIGNS, TYPE A**

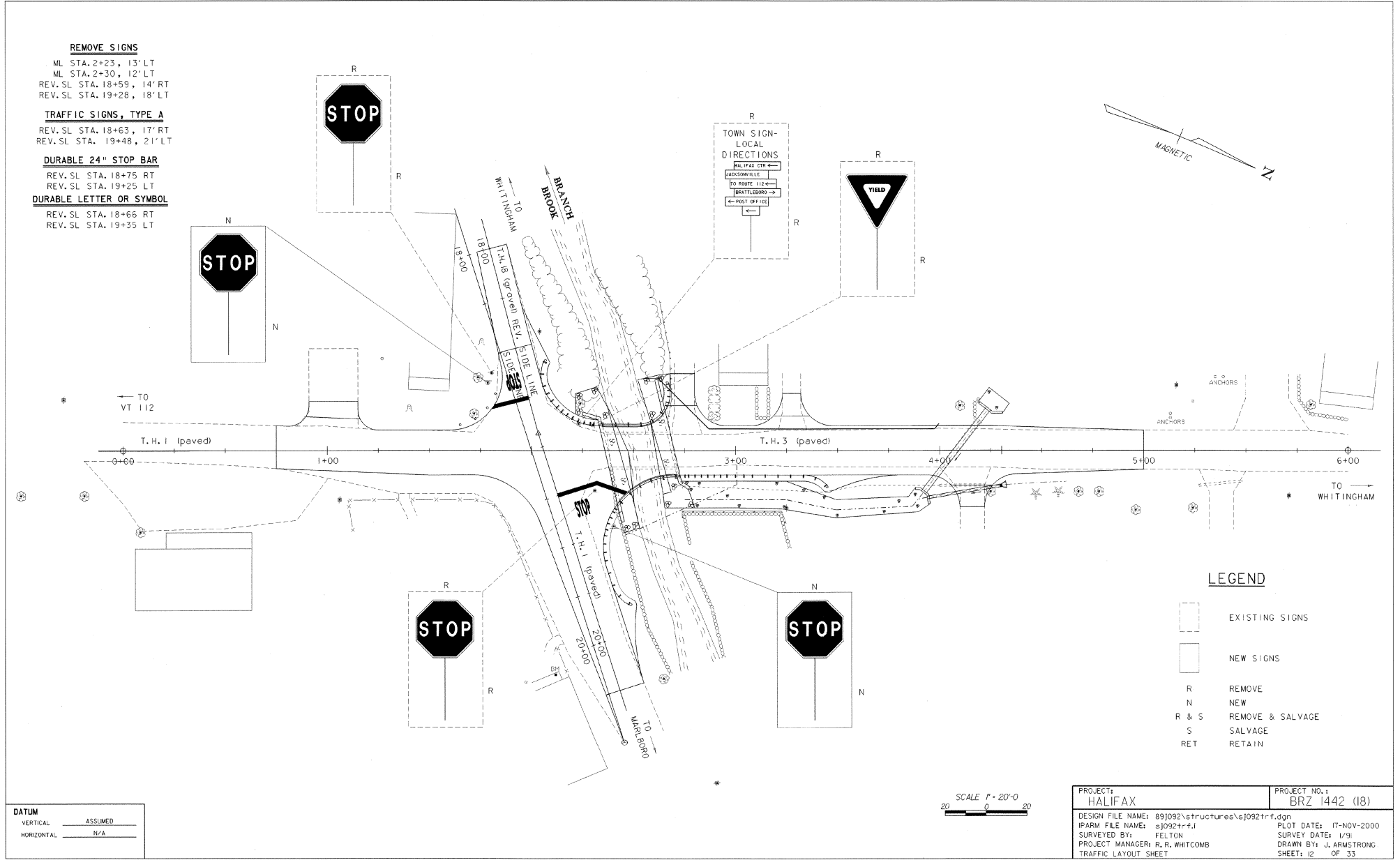
REV. SL STA. 18+63, 17' RT  
 REV. SL STA. 19+48, 21' LT

**DURABLE 24" STOP BAR**

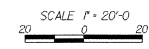
REV. SL STA. 18+75 RT  
 REV. SL STA. 19+25 LT

**DURABLE LETTER OR SYMBOL**

REV. SL STA. 18+66 RT  
 REV. SL STA. 19+35 LT



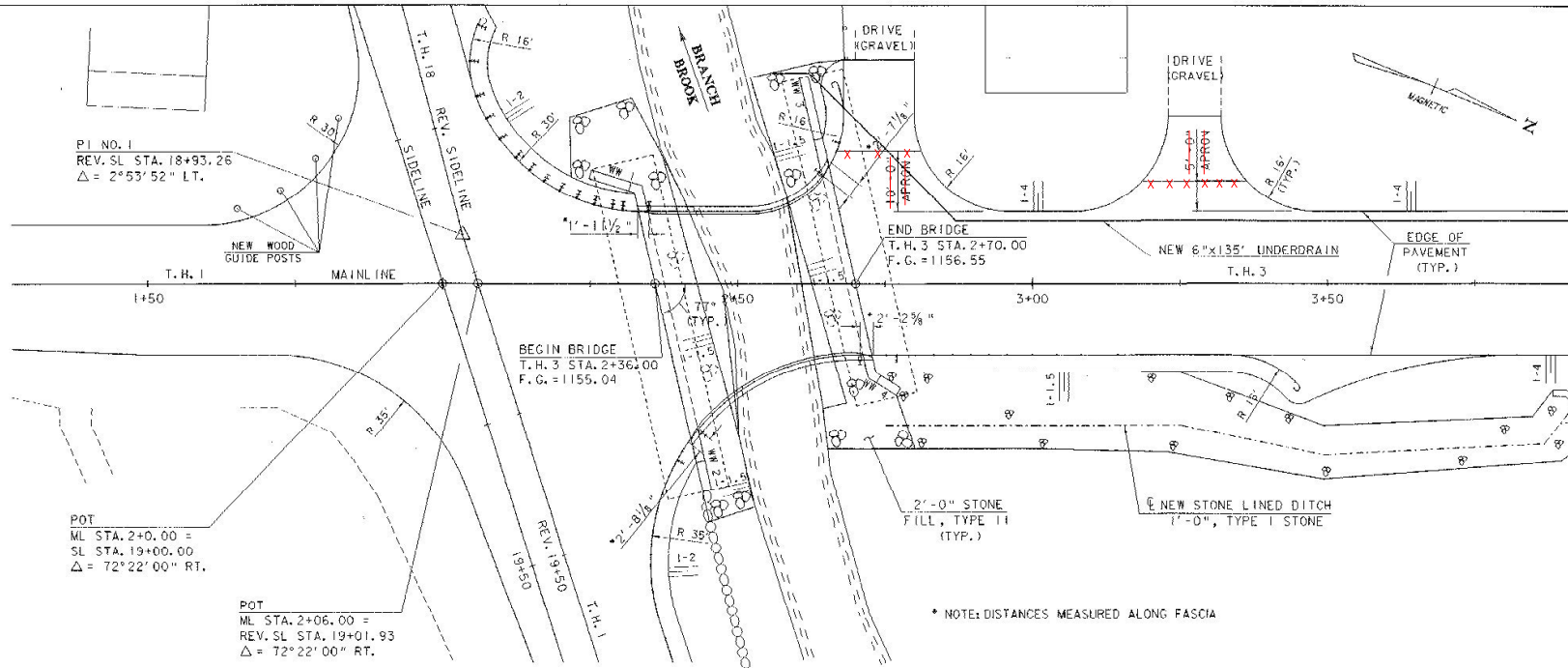
DATUM	
VERTICAL	ASSUMED
HORIZONTAL	N/A



PROJECT: HALIFAX	PROJECT NO.: BRZ 1442 (18)
DESIGN FILE NAME: 89j092\structures\sj0921r.f.dgn	PLOT DATE: 17-NOV-2000
IPARM FILE NAME: sj0921r.f.i	SURVEY DATE: 1/91
SURVEYED BY: FELTON	DRAWN BY: J. ARMSTRONG
PROJECT MANAGER: R. R. WHITCOMB	SHEET: 12 OF 33
TRAFFIC LAYOUT SHEET	



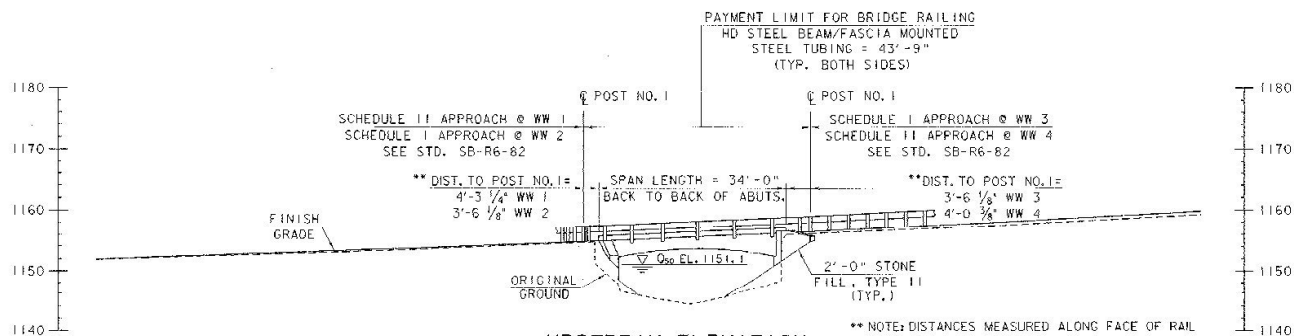




**PLAN**

SCALE 1" = 10'-0"  
 10 0 10

\* NOTE: DISTANCES MEASURED ALONG FASCIA



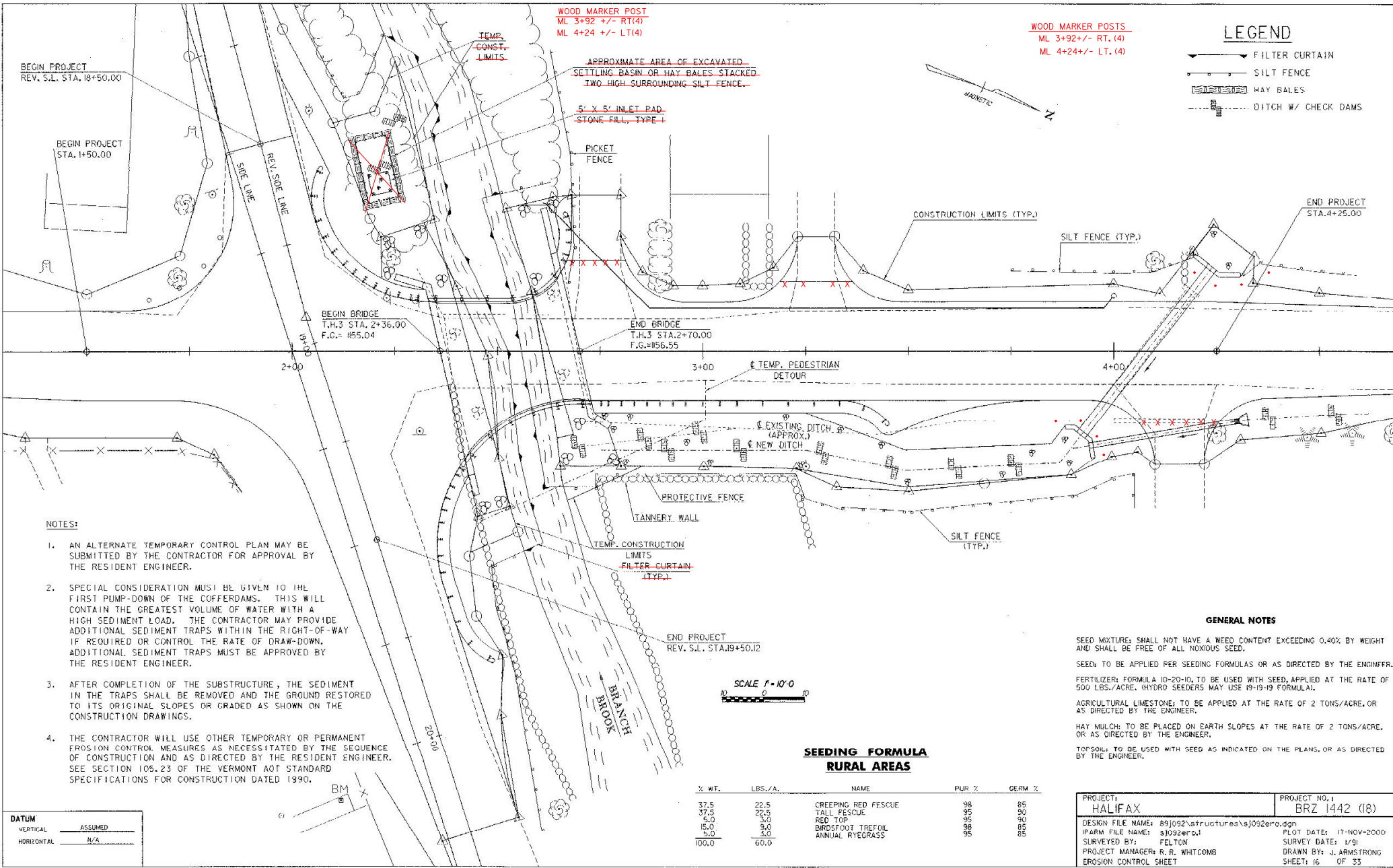
**UPSTREAM ELEVATION**

SCALE 1" = 10'-0"  
 10 0 10

\*\* NOTE: DISTANCES MEASURED ALONG FACE OF RAIL FROM END OF BRIDGE TO FIRST POST OFF BRIDGE. TRANSITION POST IS NOT CONSIDERED FIRST POST.

<b>DATUM</b>	
VERTICAL	ASSUMED
HORIZONTAL	N/A

PROJECT: HALIFAX	PROJECT NO.: BRZ 1442 (18)
DESIGN FILE NAME: 88J092\structures\1092pe.dgn	PLOT DATE: 17-NOV-2000
IPARM FILE NAME: sJ092pe.t	SURVEY DATE: 4/98
SURVEYED BY: FELTON	DRAWN BY: J. ARMSTRONG
PROJECT MANAGER: R. R. WHITCOMB	SHEET: 15 OF 33
PLAN AND ELEVATION	



WOOD MARKER POST  
ML 3+92 +/- RT.(4)  
ML 4+24 +/- LT.(4)

WOOD MARKER POSTS  
ML 3+92 +/- RT. (4)  
ML 4+24 +/- LT. (4)

**LEGEND**

- FILTER CURTAIN
- SILT FENCE
- HAY BALES
- DITCH W/ CHECK DAMS

BEGIN PROJECT  
REV. S.L. STA. 18+50.00

BEGIN PROJECT  
STA. 1+50.00

BEGIN BRIDGE  
T.H.3 STA. 2+36.00  
F.C.= #55.04

END BRIDGE  
T.H.3 STA. 2+70.00  
F.C.=#56.55

END PROJECT  
STA. 4+25.00

**NOTES:**

1. AN ALTERNATE TEMPORARY CONTROL PLAN MAY BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE RESIDENT ENGINEER.
2. SPECIAL CONSIDERATION MUST BE GIVEN TO THE FIRST PUMP-DOWN OF THE COFFERDAMS. THIS WILL CONTAIN THE GREATEST VOLUME OF WATER WITH A HIGH SEDIMENT LOAD. THE CONTRACTOR MAY PROVIDE ADDITIONAL SEDIMENT TRAPS WITHIN THE RIGHT-OF-WAY IF REQUIRED OR CONTROL THE RATE OF DRAW-DOWN. ADDITIONAL SEDIMENT TRAPS MUST BE APPROVED BY THE RESIDENT ENGINEER.
3. AFTER COMPLETION OF THE SUBSTRUCTURE, THE SEDIMENT IN THE TRAPS SHALL BE REMOVED AND THE GROUND RESTORED TO ITS ORIGINAL SLOPES OR GRADED AS SHOWN ON THE CONSTRUCTION DRAWINGS.
4. THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER. SEE SECTION 105.23 OF THE VERMONT AOT STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990.

**GENERAL NOTES**

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.  
SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.  
FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).  
AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.  
HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.  
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

SCALE 1" = 10'-0"

**SEEDING FORMULA  
RURAL AREAS**

% WT.	LBS./A.	NAME	PUR. %	CERM. %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRD'SFOOT TREFLOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

**DATUM**

VERTICAL	ASSUMED
HORIZONTAL	N/A

PROJECT: HALIFAX	PROJECT NO.: BRZ 1442 (18)
DESIGN FILE NAME: 891092\structures\sj092ero.dgn	PLOT DATE: 17-NOV-2000
IPARM FILE NAME: sj092ero.dwg	SURVEY DATE: 1/91
SURVEYED BY: FELTON	DRAWN BY: J. ARMSTRONG
PROJECT MANAGER: R. R. WHITCOMB	SHEET: 16 OF 33
EROSION CONTROL SHEET	

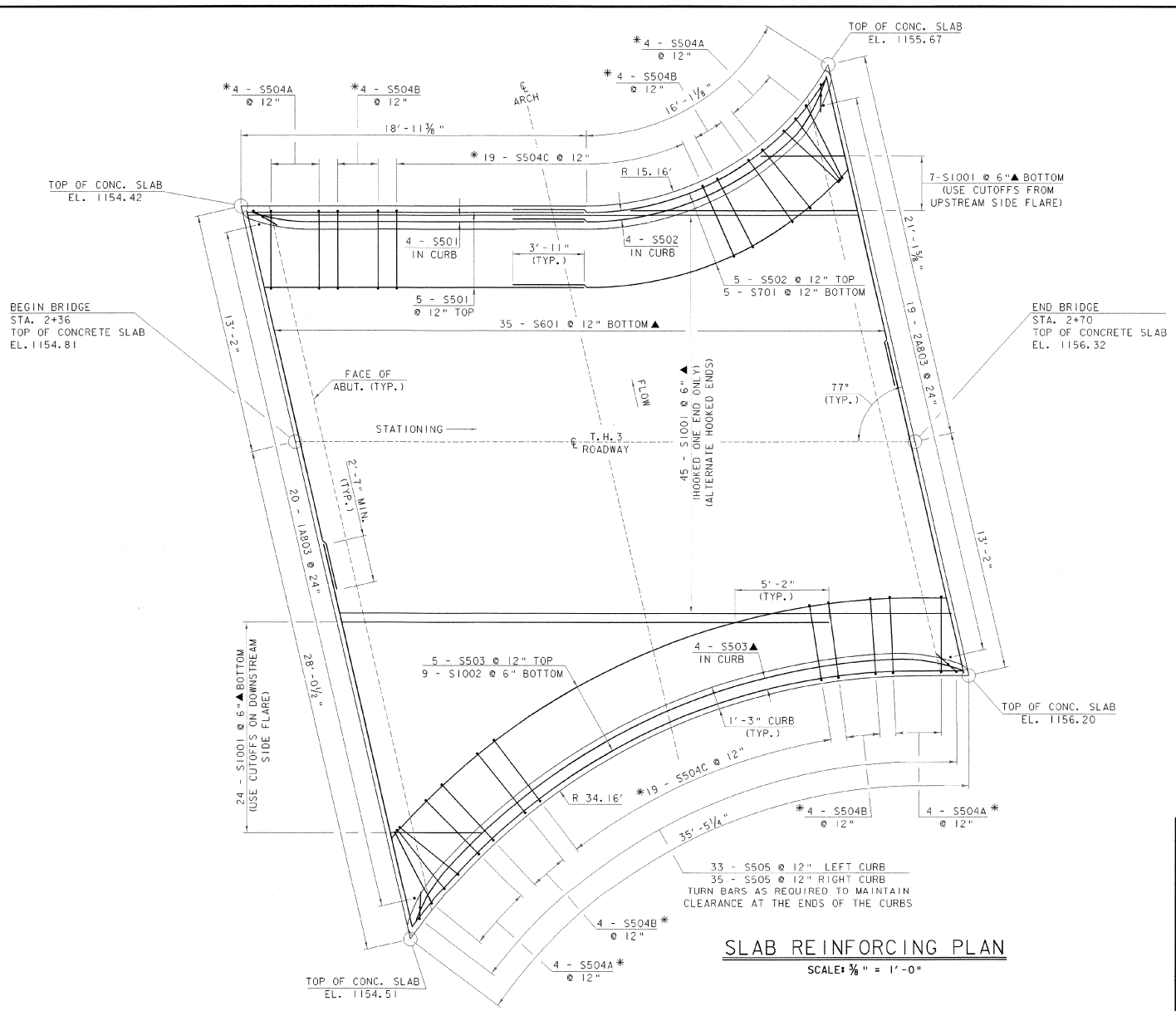
## GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1992, AND ITS LATEST REVISIONS.
2. TOWN HIGHWAY NO.3 WILL BE CLOSED TO THROUGH VEHICULAR TRAFFIC DURING CONSTRUCTION. THE TOWN SHALL BE RESPONSIBLE FOR SELECTING, SIGNING AND MAINTAINING A DETOUR ROUTE. THE CONTRACTOR SHALL NOTIFY THE TOWN CLERK AT (802)368-7390, A MINIMUM OF TWO WEEKS PRIOR TO CLOSING TOWN HIGHWAY NO.3.
3. ALL ON-PROJECT SIGNS AND BARRICADES AS REQUIRED BY THE RESIDENT ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBSIDIARY TO THE ITEM 635.10 "MOBILIZATION". ALL OFF-PROJECT SIGNING SHALL BE THE RESPONSIBILITY OF THE TOWN.
4. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON A TEMPORARY PEDESTRIAN BRIDGE LOCATED UPSTREAM OF THE EXISTING STRUCTURE AND MUST SPAN OVER THE BURIED TANNERY WALLS. PEDESTRIAN BRIDGE AND ITS APPROACHES MUST MEET AMERICAN DISABILITIES ACT REGULATIONS.
5. FULL ACCESS TO TOWN HIGHWAY NO.1, TOWN HIGHWAY NO.18 AND ALL DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. THIS WORK WILL BE CONSIDERED TO BE SUBSIDIARY TO ITEM 635.10 "MOBILIZATION".
6. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F OR AS NOTED OTHERWISE.
7. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE EXISTING SUPERSTRUCTURE AND ANY PORTIONS OF THE SUBSTRUCTURE NOT REMOVED UNDER THE ITEMS 208.35 "COFFERDAM EXCAVATION, ROCK" OR 203.27 "UNCLASSIFIED CHANNEL EXCAVATION".
8. THE STONE FILL TYPE II UNDER THE BRIDGE SHALL BE PLACED BEFORE THE CONCRETE SLAB IS FORMED AND POURED.
9. THE LOCAL DIRECTION SIGN LOCATED AT MAINLINE STATION 2+23 LEFT, WILL BE SALVAGED AND BECOME THE PROPERTY OF THE TOWN OF HALIFAX.
10. THE HEIGHT OF FILL BEHIND THE ABUTMENTS WILL BE LIMITED TO THE BRIDGE SEAT ELEVATION UNTIL THE CONCRETE SLAB HAS BEEN POURED AND THE CURING PERIOD IS UP.
11. THE MINIMUM COVER FOR REINFORCING STEEL IN THE SUBSTRUCTURES SHALL BE TWO INCHES ALONG WALL FACES AGAINST EARTH, AND THREE INCHES ELSEWHERE UNLESS DETAILED OTHERWISE. MINIMUM REINFORCING STEEL COVER SHALL BE THREE INCHES AT TOP OF SLAB AND ONE AND A HALF INCHES AT THE BOTTOM OF SLAB.
12. NO TRAFFIC SHALL BE ALLOWED ON THE NEW CONCRETE SLAB UNTIL THE CURE PERIOD IS UP AND THE 28 DAY DESIGN STRENGTH IS ATTAINED AS EVIDENCED BY TEST CYLINDERS CURED UNDER FIELD CONDITIONS.
13. TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.
14. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:
 

SPACING	+/- 1"
CLEARANCE	+/- 1/4"
15. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND PAID FOR UNDER THE ITEM 507.17.
16. WHEN EPOXY COATED REINFORCING STEEL IS CUT, THE UNCOATED ENDS SHALL BE REPAIRED WITH MATERIALS AND PROCEDURES APPROVED BY THE COATING MANUFACTURER. FLAME CUTTING OF EPOXY COATED REINFORCING STEEL WILL NOT BE PERMITTED.
17. THE CONCRETE SLAB AND SUBSTRUCTURES SHALL BE "CONCRETE CLASS HPC-B". CURBS SHALL BE "SILICA FUME CONCRETE". HPC- CLASS A
18. SURFACES OF BRIDGE SEATS UNDER THE CONCRETE SLAB SHALL BE LEVEL.
19. CONCRETE PORTIONS OF THE ABUTMENT AND WINGWALLS ABOVE THE ADJACENT BRIDGE SEAT ELEVATIONS SHALL NOT BE PLACED UNTIL THE FINISH GRADE HAS BEEN DETERMINED BY THE RESIDENT ENGINEER.
20. WHEN PLACING THE SLAB, THE CONCRETE SHALL BE DEPOSITED PARALLEL TO THE CENTERLINE OF BEARING.
21. THE ARCH IN THE BOTTOM OF THE CONCRETE SLAB WILL BE FORMED PERPENDICULAR TO THE CENTERLINE OF BEARING.
22. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. UPWARD KEYS SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
23. JOINTS AND SCORF MARKS IN THE CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
24. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1"x1".
25. IN STREAM CONSTRUCTION SHALL BE RESTRICTED TO THE PERIOD FROM JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE DEPARTMENTS OF FISH AND WILDLIFE AND ENVIRONMENTAL CONSERVATION TO DO THE WORK OUTSIDE THE RESTRICTED PERIOD.
26. THE ITEM STONE FILL, TYPE I SHALL BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER TO PREVENT EROSION BEHIND THE WINGWALLS AND AS INDICATED ON THE PLANS.
27. CONTRACTOR WILL MINIMIZE IMPACTS TO LILACS, BRUSH AND TREES LOCATED AT STATION 2+60 LEFT. CONTRACTOR WILL TAKE CARE TO AVOID AND NOT DISTURB THE ROSE BUSHES LOCATED AT STATIONS 2+90 LEFT AND 3+12 LEFT. THE LILAC BUSH LOCATED AT STATION 4+10 LT WILL BE SAVED. DAMAGED VEGETATION WILL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND PROPERTY OWNER.

<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b>			
Town Of	HALIFAX	Bridge No.	28
Highway No.	T.H.3	Log Sta.	
		Surv. Sta.	
<b>T.H.3 OVER THE BRANCH BROOK</b>			
<b>GENERAL NOTES</b>			
Designed By	T. SUMNER	Drawn By	K. CHISHOLM
Checked By	T. SUMNER	Date	8/00
		Project Manager	R.R. WHITCOMB
		Date	8/00
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
G.C. Info. 89102Structures1082ndgn s1092mi			
Bridge Sheet No.		Sheet	17 of 33

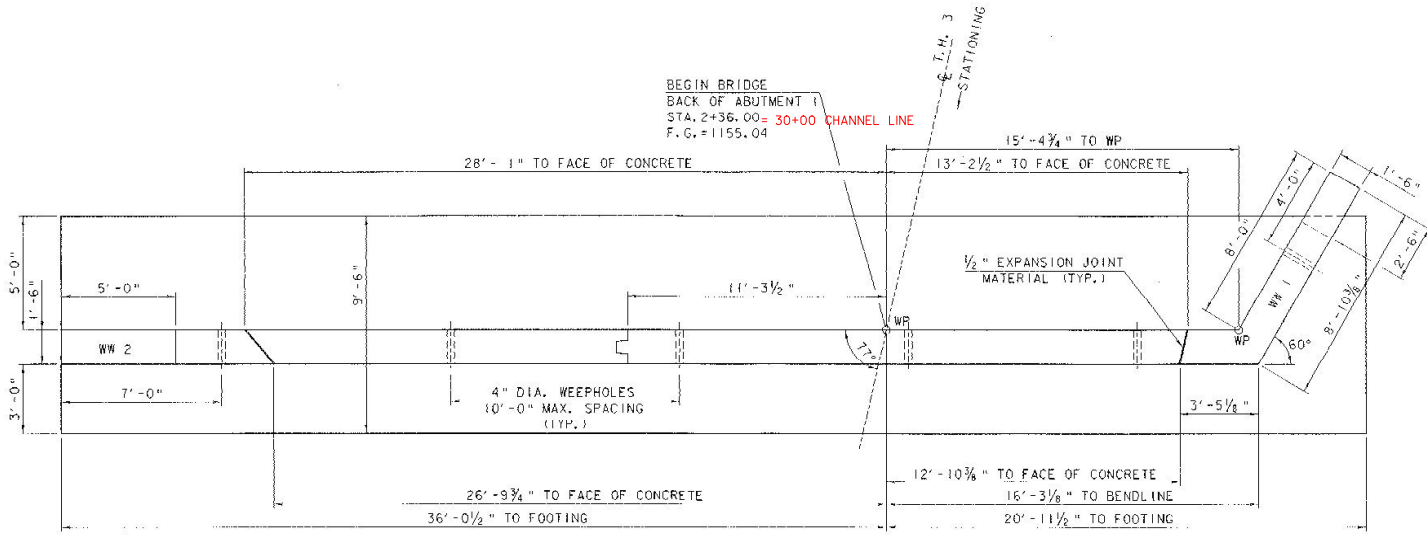




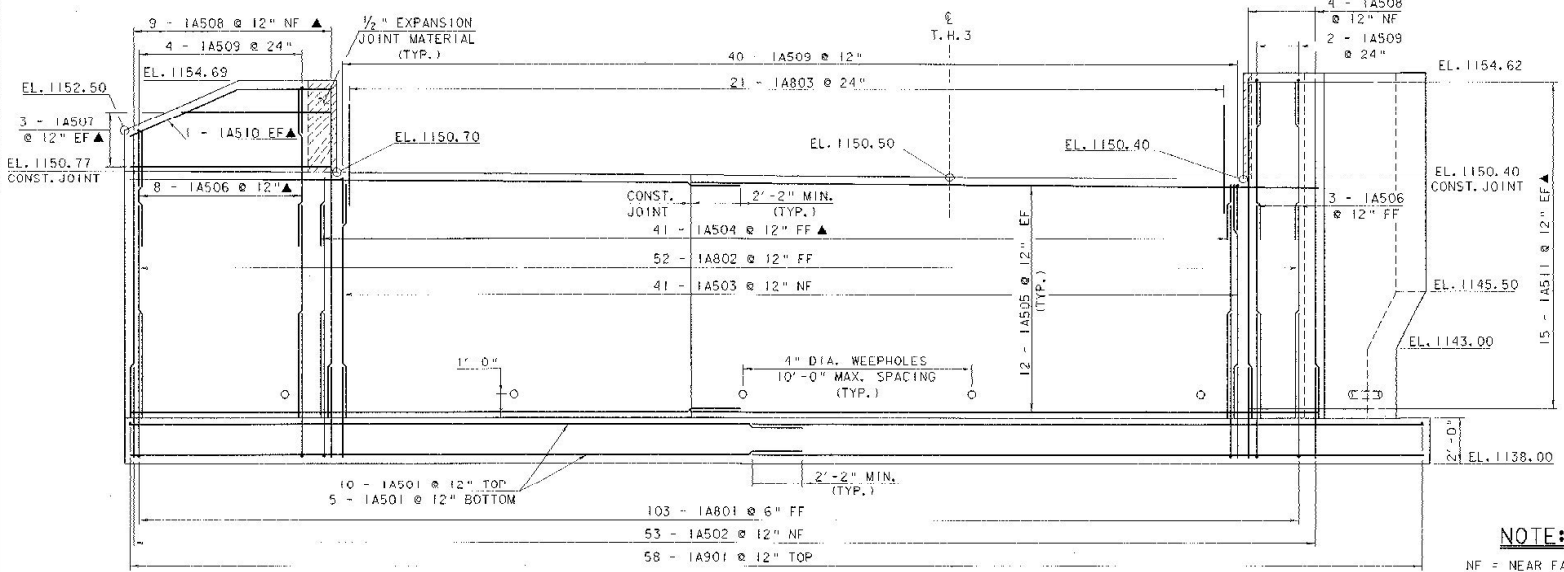
**SLAB REINFORCING PLAN**  
 SCALE: 3/8" = 1'-0"

\* TILT BARS AS NECESSARY TO MAINTAIN CLEARANCE.

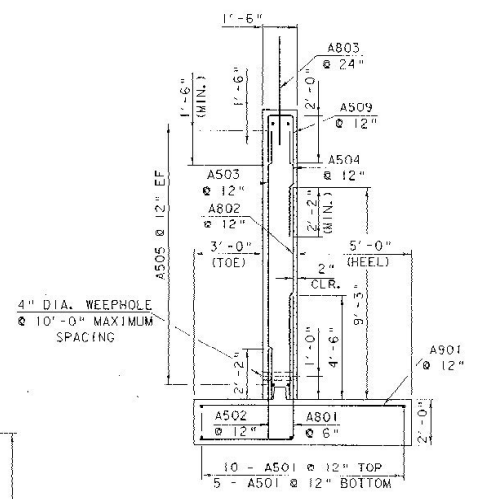
<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b>			
Town of	HALIFAX	Bridge No.	28
Highway No.	T.H. 3	Log. Sta.	2+53
<b>T.H. 3 OVER THE BRANCH BROOK</b>			
<b>SLAB REINFORCING PLAN</b>			
Designed By	T. A. SUMNER	Drawn By	K. CHISHOLM
Checked By	T. A. SUMNER	Bridge Designer/Supervisor	R. R. WHITCOMB
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
L5.C:\Info. 89\092\structures\sj092a.tb.dgn		sj092ref.i	
Bridge Sheet No.		Sheet #	of 33



**ABUTMENT NO. 1 PLAN**  
SCALE: 3/8" = 1'-0"



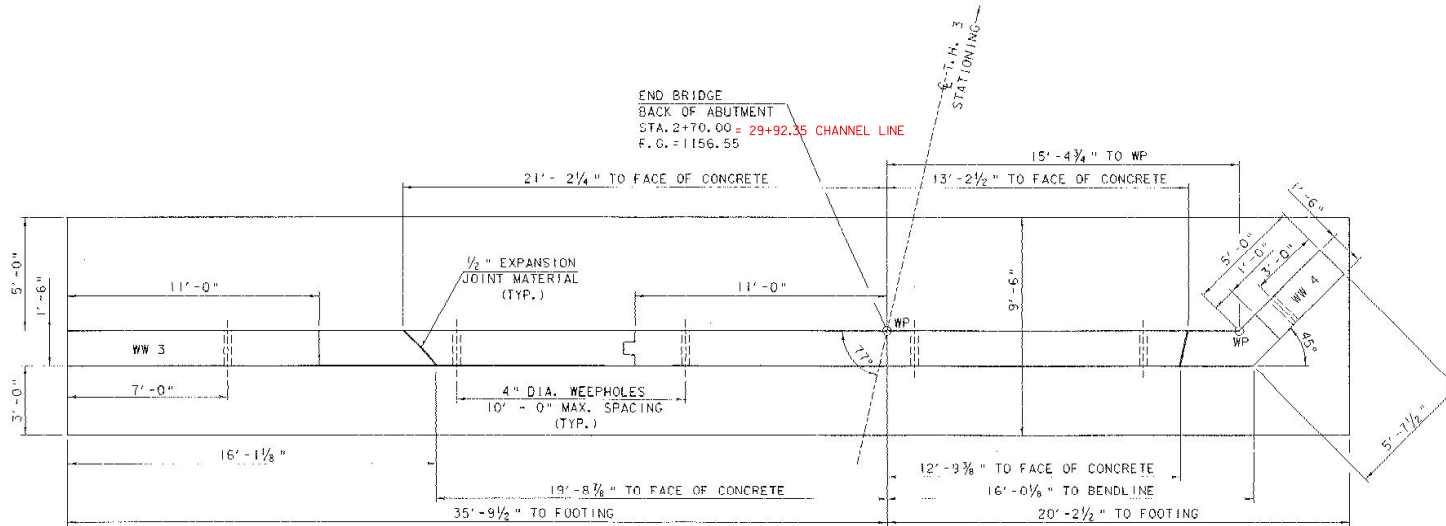
**ABUTMENT NO. 1 ELEVATION**  
SCALE: 3/8" = 1'-0"



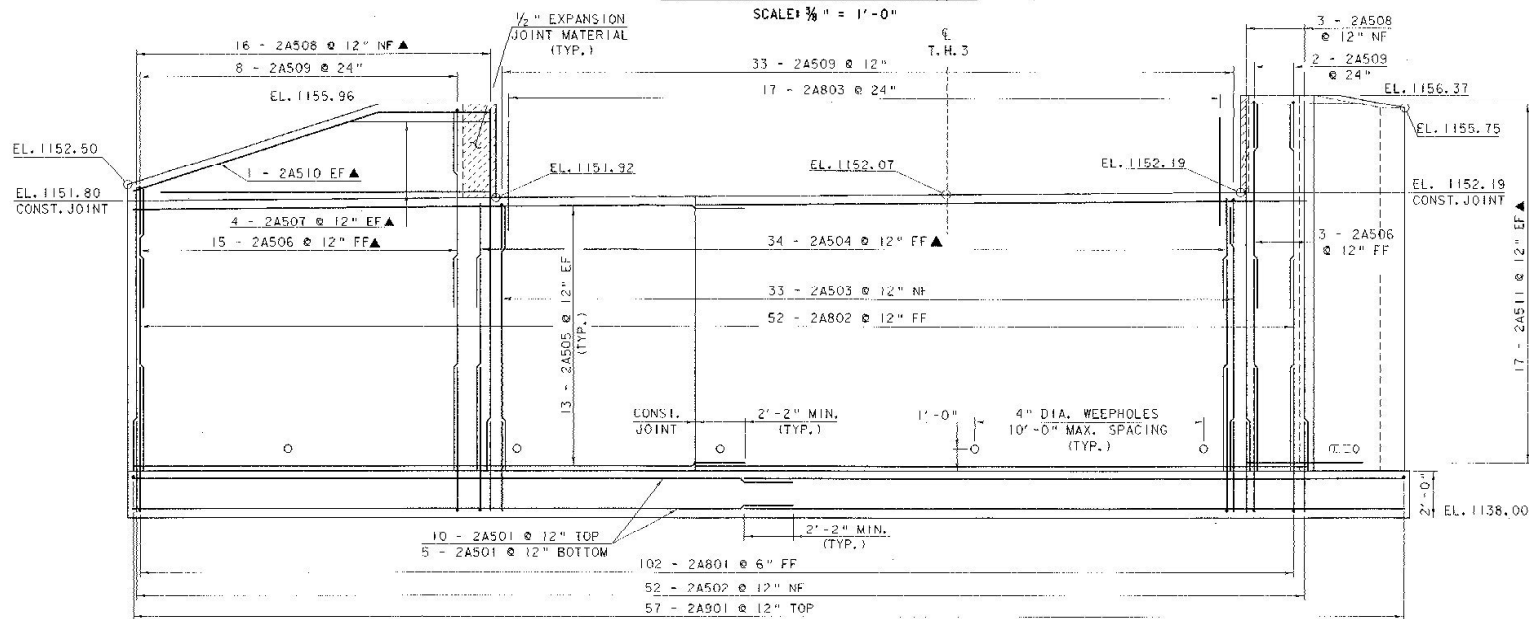
**ABUTMENT TYPICAL**  
SCALE: 3/8" = 1'-0"

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

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	HALIFAX	Bridge No.	28
Highway No.	T. H. 3	Log Sta.	
T. H. 3 OVER THE BRANCH BROOK		Surv. Sta.	
ABUTMENT NO. 1 DETAILS			
Designed By	T. SUMNER	Drawn By	K. CHISHOLM
Checked By		Date	
T. SUMNER	8/02	R. R. WHITCOMB	Date 8/02
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
Log. Info. / s1092eb.dwg		s1092eb.1	
Bridge Sheet No.		Sheet	20 of 33



ABUTMENT NO. 2 PLAN



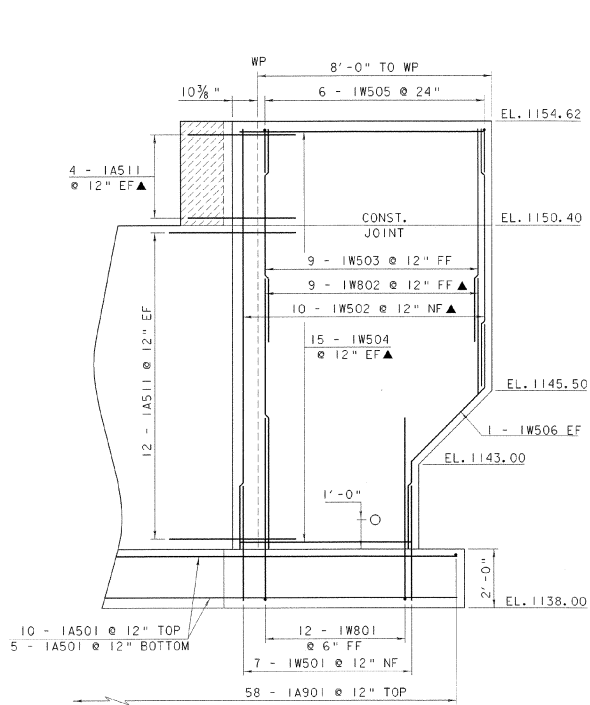
ABUTMENT NO. 2 ELEVATION

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

NOTE:

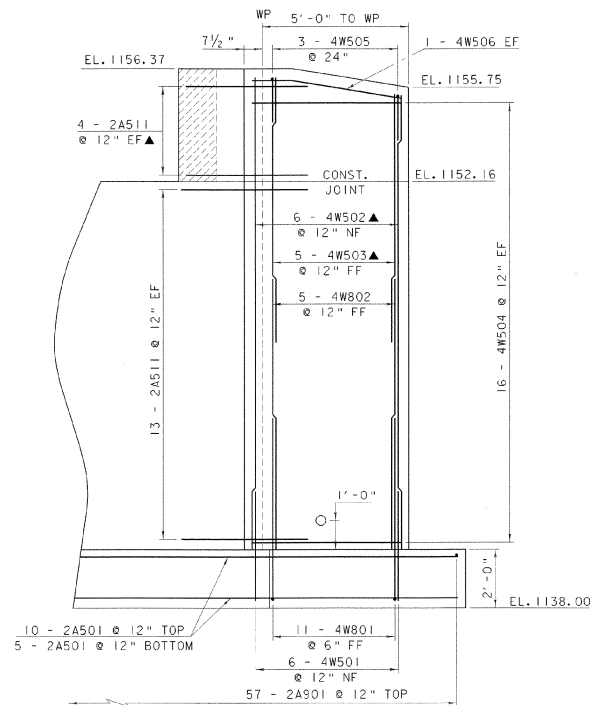
- NF = NEAR FACE
- FF = FAR FACE
- EF = EACH FACE
- ▲ = CUT TO FIT IN FIELD
- 3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	HALIFAX	Bridge No. 28	
Highway No.	T. H. 3	Log. Sta.	
		Surv. Sta.	
T. H. 3 OVER THE BRANCH BROOK			
ABUTMENT NO. 2 DETAILS			
Designed By	T. SUMNER	Drawn By	S. CRISHOLM
Checked By	Date	Project Manager	
T. SUMNER	8/00	R. R. WHITEOMB	Date 8/00
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
L.G.C. Info. /str/3/89/092/sj092ab.dgn			st092ab2.1
Bridge Sheet No.		Sheet	21 of 33



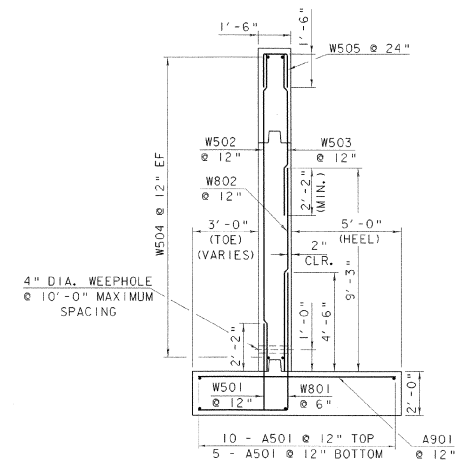
**WINGWALL NO. 1 ELEVATION**

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



**WINGWALL NO. 4 ELEVATION**

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



**WINGWALL TYPICAL**

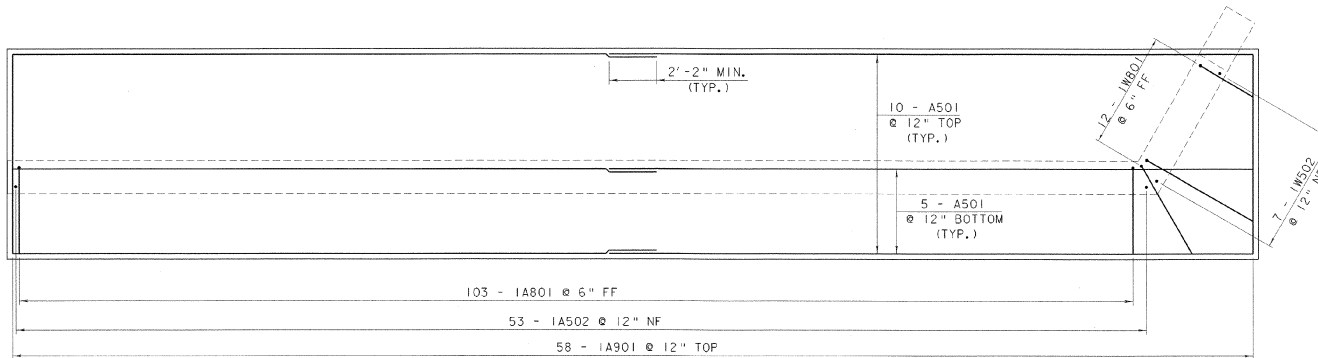
SCALE: 3/8" = 1'-0"

**NOTE:**

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

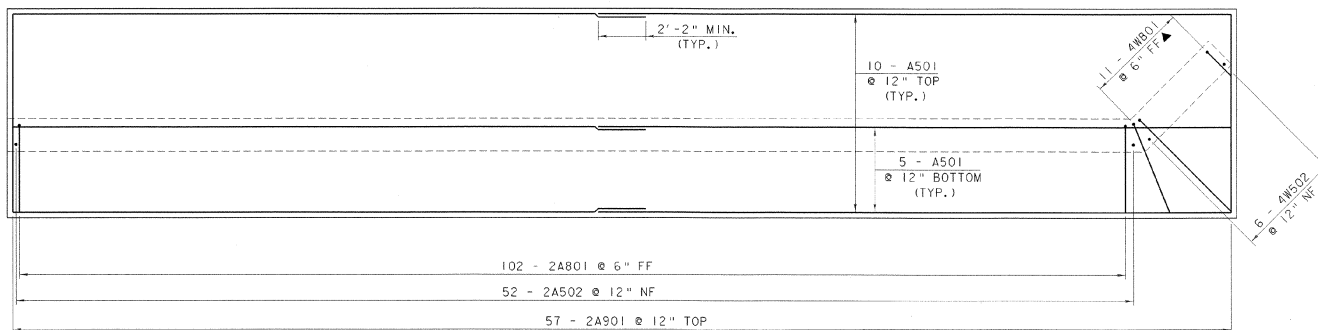
**STATE OF VERMONT  
 AGENCY OF TRANSPORTATION**

Town Of	HALIFAX	Bridge No.	28
Highway No.	T. H. 3	Log. Sta.	
		Surv. Sta.	
<b>T. H. 3 OVER THE BRANCH BROOK</b>			
<b>WINGWALL DETAILS</b>			
Designed By	T. SUMNER	Drawn By	K. CHISHOLM
Checked By		Date	
T. SUMNER		Project Manager	R. R. WHITCOMB
		Date	8/00
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
L&C Info. /str3/89/092/sj092ab.dgn		81092vw.1	
Bridge Sheet No.		Sheet	22 of 33



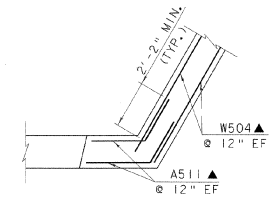
**ABUTMENT NO. 1 FOOTING REINFORCING PLAN**

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



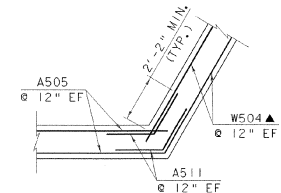
**ABUTMENT NO. 2 FOOTING REINFORCING PLAN**

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



**WINGWALL NO. 1 CORNER REINFORCING ABOVE BRIDGE SEAT**

SCALE: 3/8" = 1'-0"  
(WINGWALL NO. 4 SIMILAR)



**WINGWALL NO. 1 CORNER REINFORCING BELOW BRIDGE SEAT**

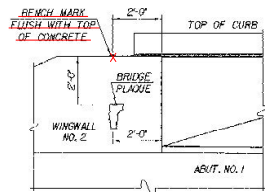
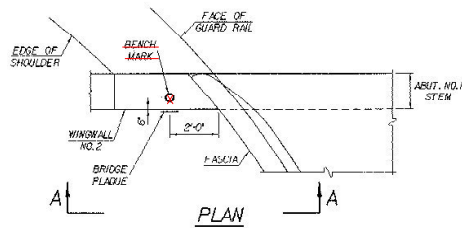
SCALE: 3/8" = 1'-0"  
(WINGWALL NO. 4 SIMILAR)

**NOTE:**

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

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

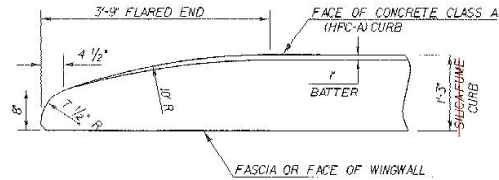
Town of	HALIFAX	Bridge No.	28
Highway No.	T. H. 3	Log. Sta.	
		Surv. Sta.	
T. H. 3 OVER THE BRANCH BROOK			
FOOTING REINFORCING DETAILS			
Designed By	T. SUMNER	Drawn By	K. CHISHOLM
Checked By	Date	Project Manager	
T. SUMNER	8/00	R. R. WHITCOMB	Date 8/00
PROJECT	HALIFAX	PROJECT NO.	BRZ 1442 (18)
L.L.C. Info. / str3/891092/sj092ab.dgn		sj0921fg.i	
Bridge Sheet No.		Sheet	23 of 33



VIEW "A - A"

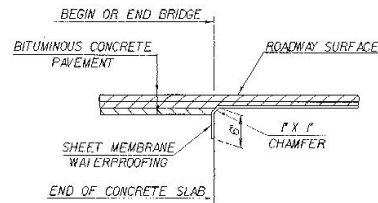
**LOCATE BENCH MARK AND BRIDGE PLAQUE**

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



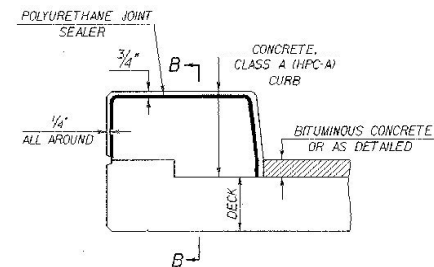
**FLARED END DETAIL FOR 1'-3" CURB**

CURB REINFORCING STIRRUP BARS SHALL BE TURNED AS REQUIRED TO FIT FLARED ENDS.



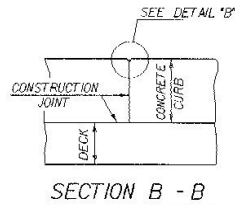
**DETAIL FOR SHEET MEMBRANE AT END OF BRIDGE**

SCALE: 1" = 1'-0"



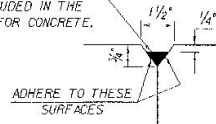
**TYPICAL SECTION THROUGH CONCRETE CURB CONSTRUCTION JOINT**

- NOTES:
1. CONSTRUCTION JOINTS THROUGH CONCRETE CURBS SHALL BE SPACED MAXIMUM 15'-0" CENTER TO CENTER AND SHALL BE 1'-6" MINIMUM FROM THE CENTER OF THE NEAREST BRIDGE RAIL POST. CONCRETE SHALL BE PLACED IN ALTERNATING SECTIONS WITH A MINIMUM OF 48 HOURS DELAY BETWEEN ADJACENT POURS.
  2. LONGITUDINAL REINFORCING SHALL PASS THROUGH CONCRETE CURB CONSTRUCTION JOINTS.
  3. CONSTRUCTION JOINTS THROUGH SIDEWALKS SHALL BE SIMILAR TO CONCRETE CURB CONSTRUCTION JOINTS.

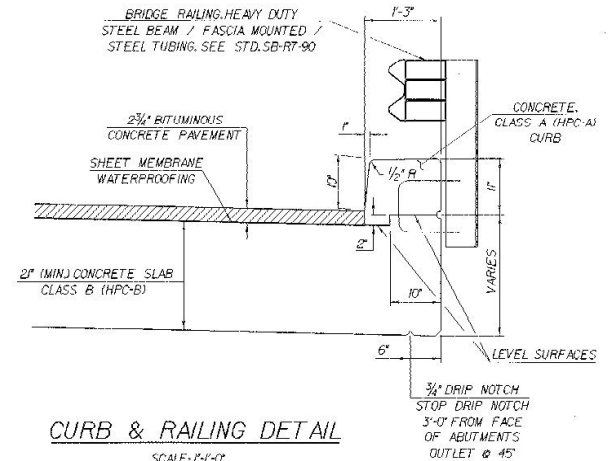


SECTION B - B

POLYURETHANE JOINT SEALER PER SUBSECTION 52406C. COLOR TO MATCH CONCRETE. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE, CLASS A (HPC-A).

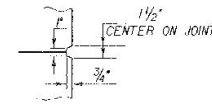


DETAIL "B"

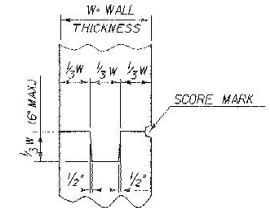


**CURB & RAILING DETAIL**

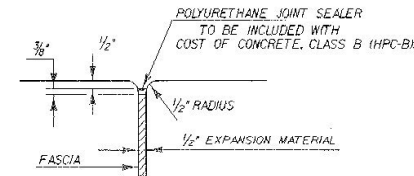
SCALE: 1" = 1'-0"



**SCORE MARK DETAIL**



**TYPICAL CONCRETE CONSTRUCTION JOINT**



**JOINT BETWEEN FASCIA AND WINGWALL**

STATE OF VERMONT AGENCY OF TRANSPORTATION				
Town Of	HALIFAX	Bridge No.	28	
Highway No.	T.H.3	Log. Sta.		
T.H.3 OVER THE BRANCH BROOK				
MISCELLANEOUS DETAILS				
Designed By	T. SUMNER	Drawn By	K. CHESHOLM	
Checked By	T. SUMNER	Date	8/00	
PROJECT	HALIFAX	R.R. WHITECOMB	Date	8/00
		PROJECT NO.	BRZ 1442 (18)	
I.G.C. Info. 891022/Infrastructure/2020m/edg		1/2020m/ed		
Bridge Sheet No.		Sheet	24 of 33	

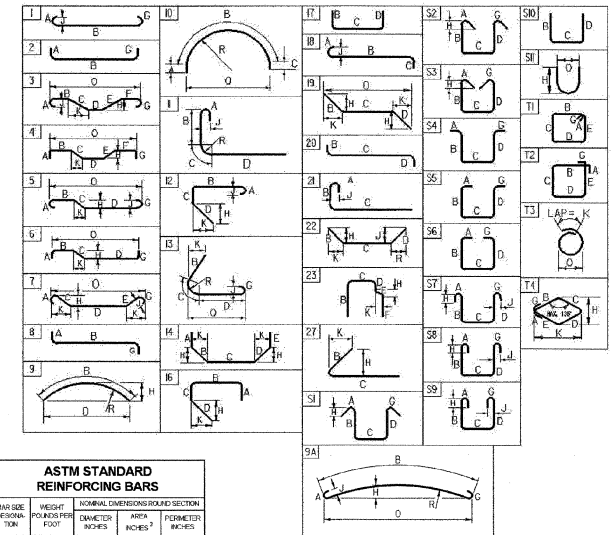
STATE OF VERMONT  
AGENCY OF TRANSPORTATION

# REINFORCING STEEL SCHEDULE

SLAB																WINGWALL NO. 4																				
EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O		
*	10	5	18'-8"	S501	STR												▲	6	5	3'-11"	4W501	STR														
*	10	5	19'-9"	S502	9	19'-9"											▲	6	5	16'-11"	4W502	STR														
▲	9	5	34'-9"	S503	9								2'-9"				*	▲	5	5	9'-1"	4W503	STR													
▲	16	5	11'-6"	S504A	S6	1'-0"	2'-8"	4'-2"	2'-8"								*	▲	33	5	5'-1"	4W504	STR													
▲	16	5	10'-4"	S504B	S6	1'-0"	2'-1"	4'-2"	2'-1"								3	5	4'-1"	4W505	S10			1'-6"	1'-1"	1'-6"										
▲	38	5	9'-0"	S504C	S6	1'-0"	1'-5"	4'-2"	1'-5"								2	5	5'-1"	4W506	19			1'-4"	3'-9"	---										
▲	68	5	7'-5"	S505	S6	1'-0"	2'-4"	0'-8"	2'-5"								5	8	9'-3"	4W802	STR															
▲	72	6	21'-9"	S601	STR												*	12	8	12'-2"	4W901	17				5'-11"	6'-3"									
▲	7	7	19'-9"	S701	9	19'-9"																														
▲	72	10	35'-0"	S1001	9A	1'-5"	33'-7"																													
▲	9	10	34'-9"	S1002	9	34'-9"																														
ABUTMENT NO. 1																INLET HEADWALL																				
▲	30	5	29'-4"	1A501	STR												*	▲	5	5	13'-4"	1H501	19													
▲	53	5	3'-11"	1A502	STR												▲	6	5	6'-5"	2H501	19				4'-0"	2'-6"			1'-6"		1'-11"		5'-11"		
▲	41	5	10'-1"	1A503	STR												▲	4	5	8'-9"	2H502	19				4'-0"	4'-9"			3'-3"		3'-8"		7'-6"		
▲	41	5	3'-5"	1A504	STR																															
▲	48	5	28'-11"	1A505	STR																															
▲	12	5	7'-4"	1A506	STR																															
▲	6	5	8'-9"	1A507	STR																															
▲	13	5	14'-5"	1A508	STR																															
▲	46	5	5'-1"	1A509	S10		2'-0"	1'-1"	2'-0"																											
▲	2	5	8'-11"	1A510	19							2'-2"		4'-6"		8'-4"																				
▲	30	5	6'-0"	1A511	19							2'-7"		1'-6"		4'-6"																				
▲	52	8	9'-3"	1A802	STR																															
▲	24	8	5'-2"	1A803	STR																															
▲	103	8	10'-4"	1A801	17																															
▲	60	9	9'-0"	1A901	STR																															
WINGWALL NO. 1																OUTLET HEADWALL																				
▲	7	5	3'-11"	1W501	STR																															
▲	10	5	14'-4"	1W502	STR																															
*	10	5	7'-4"	1W503	STR																															
▲	30	5	8'-5"	1W504	STR																															
▲	6	5	4'-1"	1W505	S10		1'-6"	1'-1"	1'-6"																											
▲	2	5	8'-8"	1W506	19		3'-0"	3'-6"	2'-2"																											
*	▲	10	8	9'-3"	1W802	STR																														
▲	12	8	11'-11"	1W801	17																															
ABUTMENT NO. 2																																				
▲	30	5	28'-10"	2A501	STR																															
▲	30	5	3'-11"	2A502	STR																															
▲	33	5	11'-10"	2A503	STR																															
▲	34	5	4'-11"	2A504	STR																															
▲	52	5	26'-9"	2A505	STR																															
▲	49	5	9'-11"	2A506	STR																															
*	▲	8	5	15'-7"	2A507	STR																														
▲	19	5	16'-1"	2A508	STR																															
▲	43	5	4'-1"	2A509	S10		1'-6"	1'-1"	1'-6"																											
▲	2	5	16'-1"	2A510	19		11'-4"	4'-9"	---																											
▲	34	5	6'-0"	2A511	19																															
▲	52	8	9'-3"	2A802	STR																															
▲	17	8	5'-2"	2A803	STR																															
*	103	8	10'-4"	2A801	17																															
▲	59	9	9'-0"	2A901	STR																															

~ NOTES ~

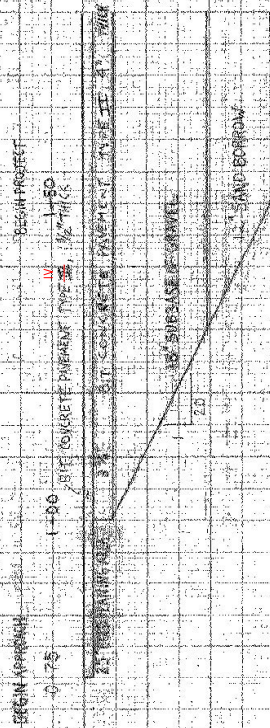
- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "Q" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- \* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- ALL REINFORCING STEEL WILL BE EPOXY COATED



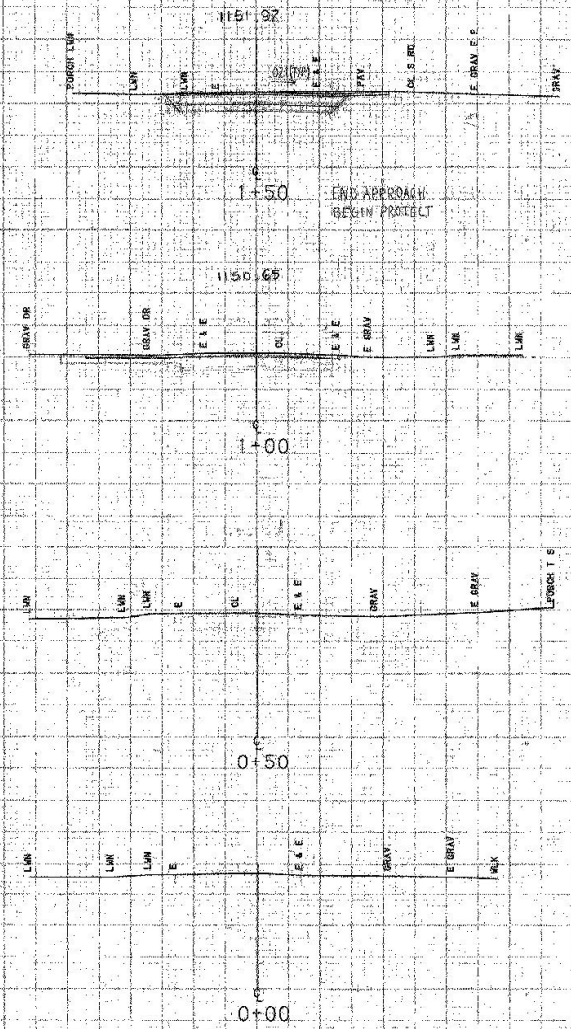
BAR SIZE DESIGNATION	WEIGHT PER LINEAL FOOT		MINIMUM CROSS-SECTIONAL AREA	
	POUNDS PER FOOT	KG/METER	INCHES <sup>2</sup>	CM <sup>2</sup>
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.80	2.257	4.00	7.09

ALL STEEL DETAILED ON THIS SHEET TO BE EPOXY COATED

PROJECT NAME: **HALIFAX**  
 PROJECT NUMBER: **BRZ 1442 (18)**  
 FILE NAME: **1809092a\structures\18092.ref.xls** PLOT DATE: 11/13/00  
 PROJECT: **R.R.WHITCOMB** DRAWN BY: **K.CHISHOLM**  
 DESIGNED BY: **T.A.SUMNER** CHECKED BY: **T.A.SUMNER**  
 REINFORCING STEEL SCHEDULE SHEET #1 SHEET 25 OF 33

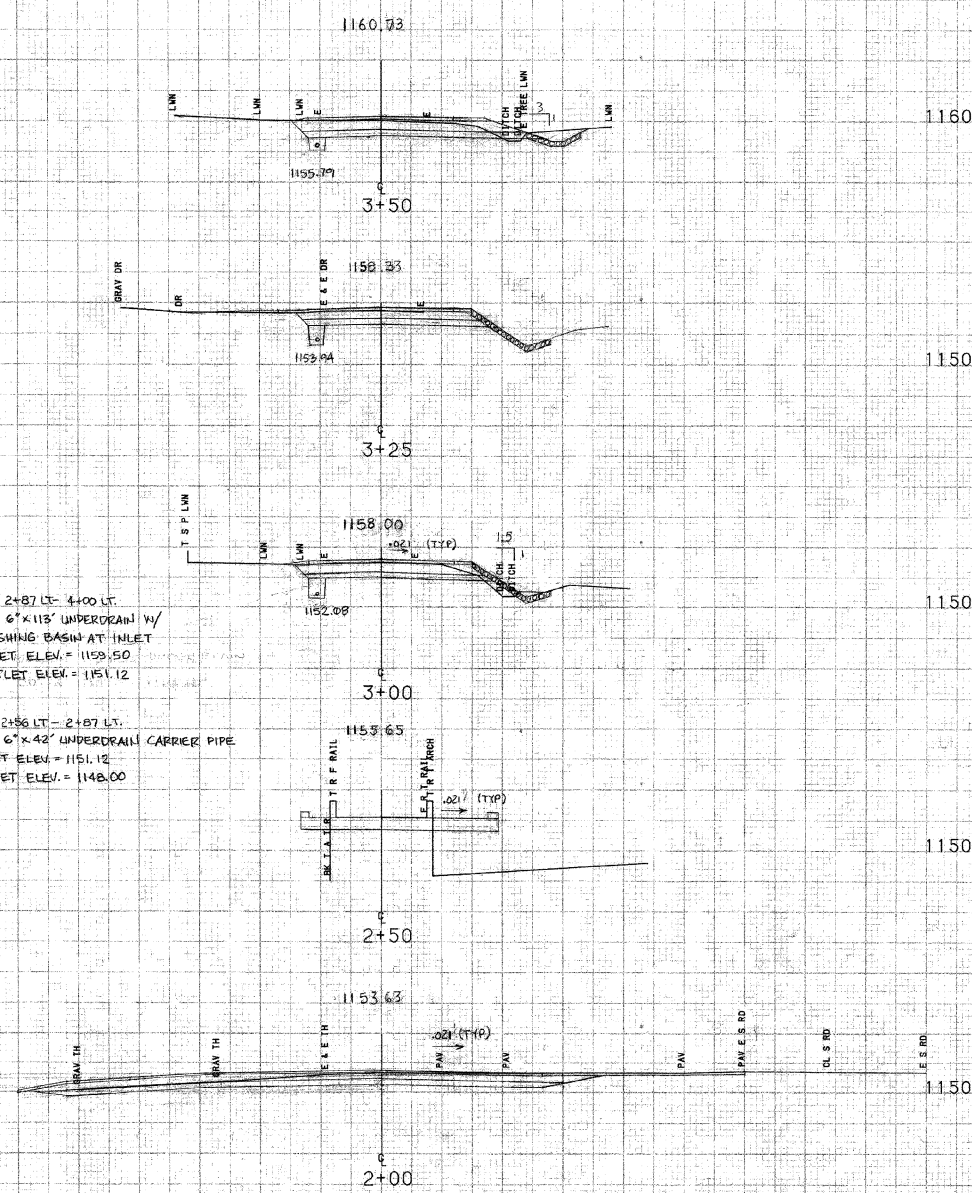


TRANSITION DE SUBBASE DEPTH  
 SCALE: VERT. 1" = 1'-0"  
 HOR. 1" = 10'-0"



FROM STA. 0+00 TO STA. 1+50  
 PROJECT NAME HALIFAX MAIN  
 NO. BRZ1442 (18) PLOTTED 04/24/91  
 SURVEYED BY RELIANT 01/29/83  
 SHEET 2 OF 3 SHEETS

SCALE 1" = 10 FEET



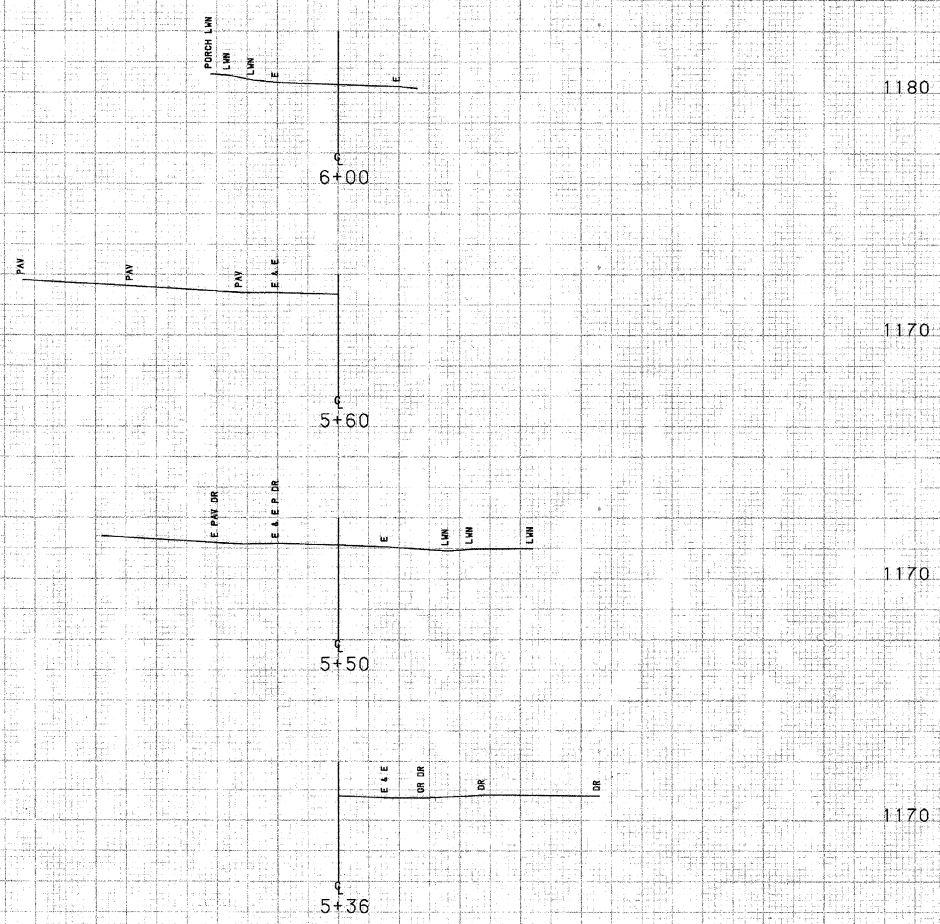
STA. 2+87 LT. - 4+00 LT.  
 NEW 6" x 113' UNDERDRAIN W/  
 FLUSHING BASIN AT INLET  
 INLET ELEV. = 1159.50  
 OUTLET ELEV. = 1151.12

STA. 2+56 LT. - 2+87 LT.  
 NEW 6" x 42' UNDERDRAIN CARRIER PIPE  
 INLET ELEV. = 1151.12  
 OUTLET ELEV. = 1148.00

FROM STA.	2+00	TO STA.	3+50
PROJECT NAME	HALIFAX MAIN		
NO.	BR21442 (18)		
SURVEYED BY	FELTON	PLOTTED	04/24/91
SHEET	27	OF	33 SHEETS

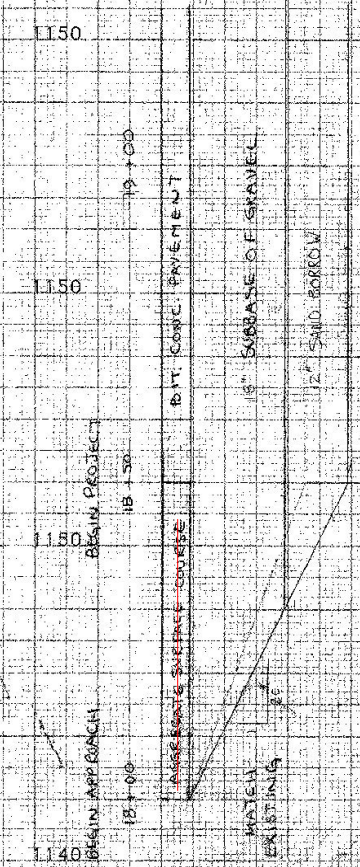
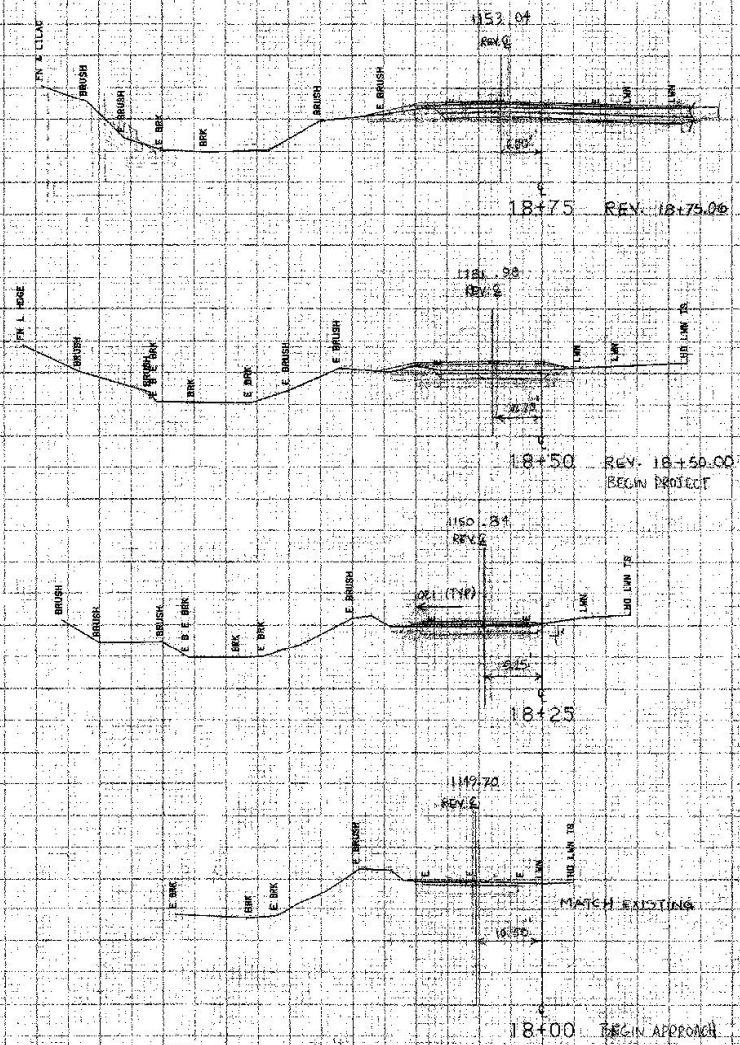
SCALE 1" = 10 FEET





FROM STA.	5+36	TO STA.	6+00
PROJECT NAME	HALIFAX MAIN1		
NO.	BR21442 (18)		
SURVEYED BY	FELTON	PLOTTED	04/24/91
SHEET	27	OF	23 SHEETS

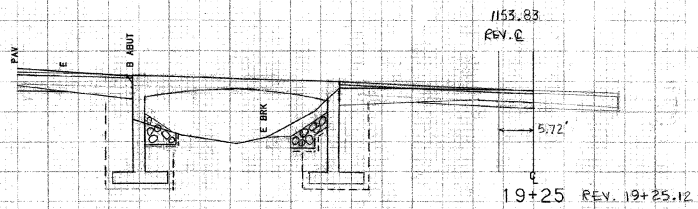
SCALE 1" = 10 FEET



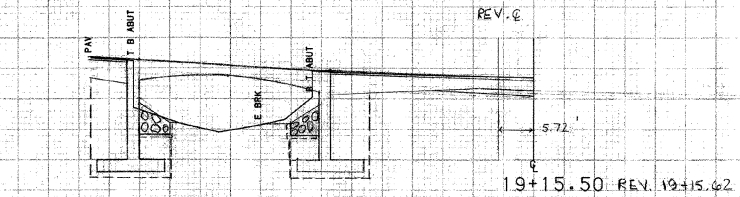
TRANSITION OF SUBBASE DEPTH T.W. 18  
 SCALE: VERT. 1" = 1'-0"  
 HOR. 1" = 10'-0"

FROM STA. 18+00	TO STA. 18+75
PROJECT NAME: HALIFAX T.W. 18	PLOTTED 04/24/91
NO. BR21842 (NB)	
SURVEYED BY: F. C. TOWN	01/29/91 0330
SHEET 20	OF 30 SHEETS

SCALE: 1" = 10'-0"

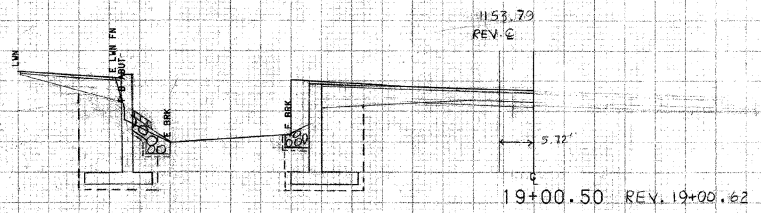


1150

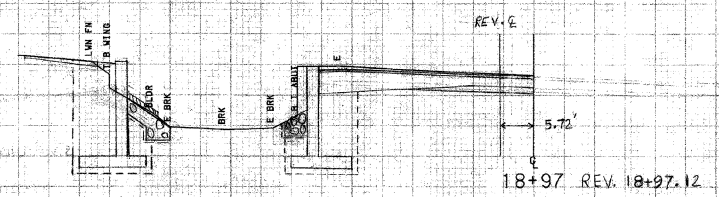


1150

\* NOTE :  
NO GRUBBING MATERIAL  
UNDER BRIDGE



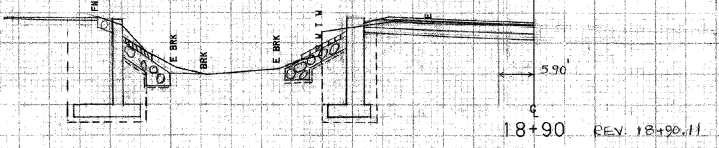
1150



1150

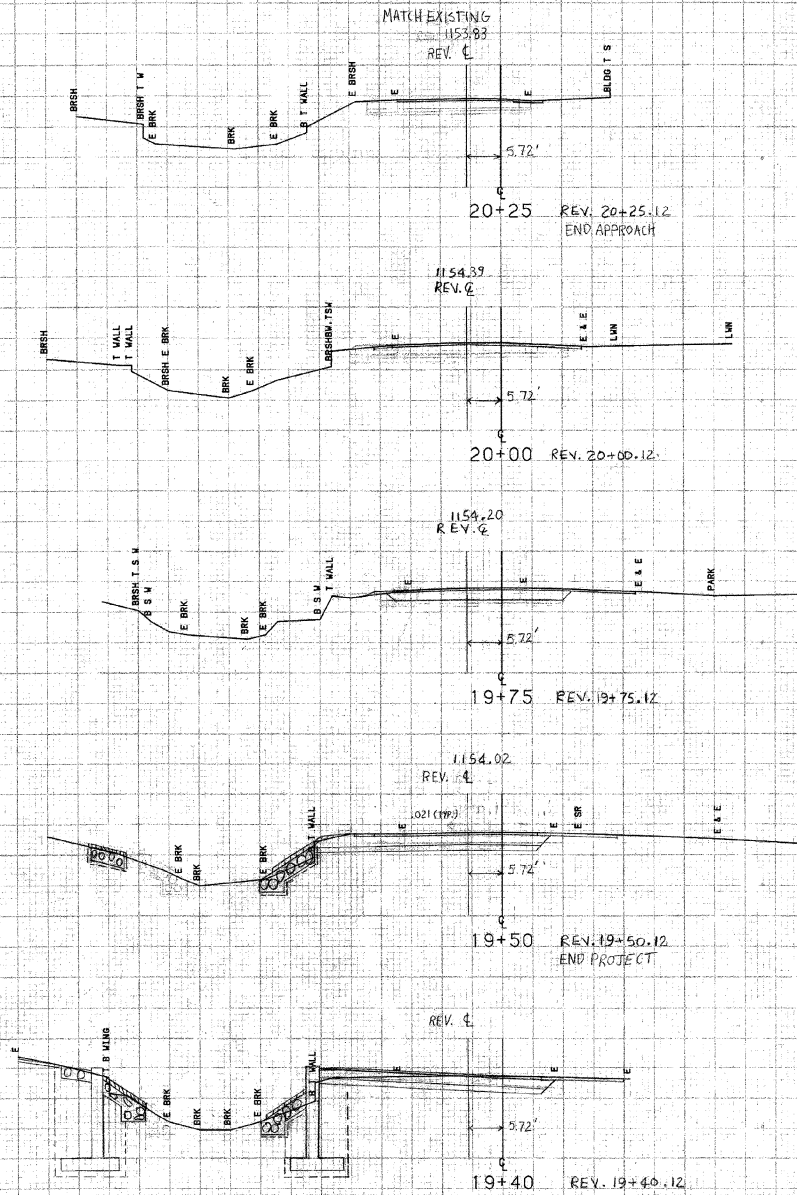
SIDELINE STA. 18+82.5, ABUT. NO. 2  
BEGIN UNCLASSIFIED CHAN. EXCAVATION  
GEOTEXTILE UNDER STONE FILL  
STONE FILL, TYPE II  
GRUBBING MATERIAL

SIDELINE STA. 18+80, ABUT. NO. 1  
BEGIN UNCLASSIFIED CHAN. EXCAVATION  
GEOTEXTILE UNDER STONE FILL  
STONE FILL, TYPE II  
GRUBBING MATERIAL

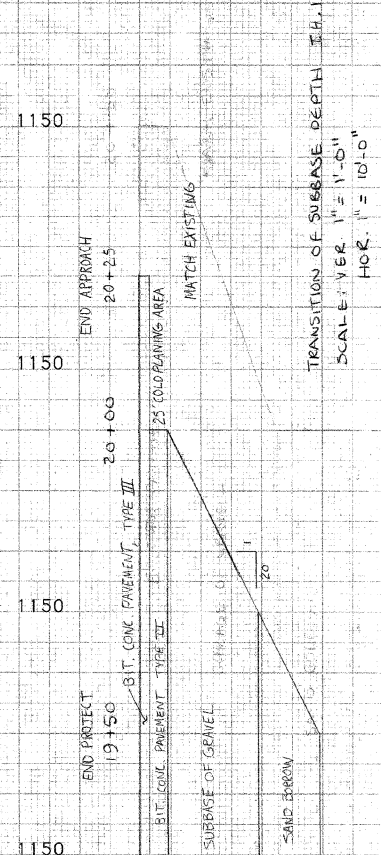


1150

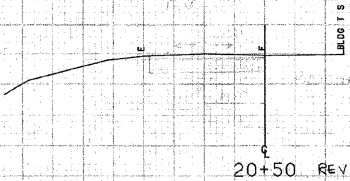
SIDELINE STA 19+53, ABUT. NO. 2  
 END UNCLASSIFIED CHAN. EXCAVATION  
 GEOTEXTILE UNDER STONE FILL  
 STONE FILL, TYPE II  
 GRUBBING MATERIAL



SIDELINE STA 19+52, ABUT. NO. 1  
 END UNCLASSIFIED CHAN. EXCAVATION  
 GEOTEXTILE UNDER STONE FILL  
 STONE FILL, TYPE II  
 GRUBBING MATERIAL



TRANSITION OF SUBBASE DEPTH  
 SCALE: VER. 1" = 1'-0"  
 HOR. 1" = 10'-0"



20+50 REV. 20+50.12

1150

SCALE 10 FEET

FROM STA.	20+50	TO STA.	20+50
PROJECT NAME	HALIFAX MAIN2		
SURVEYED BY	NO.	BRZ1442 (18)	PLOTTED 04/24/91
	FELTON		01/91 0340
SHEET 23	OF 23	SHEETS	