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STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

INTERSTATE PROJECT

TOWN OF - SOUTH BURLINGTON

COUNTY OF CHITTENDEN

PROJECT I 89-3(14) CONTRACT NO. 3 STAGE 1

PROJECT NAME AND NUMBER
WILLISTON-SOUTH BURLINGTON I 89-3(14) CONTRACT 3
STAGE 1

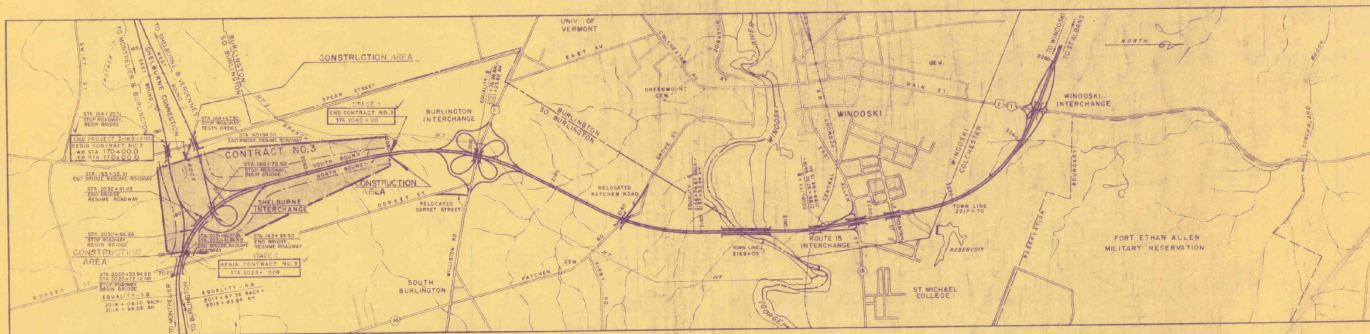
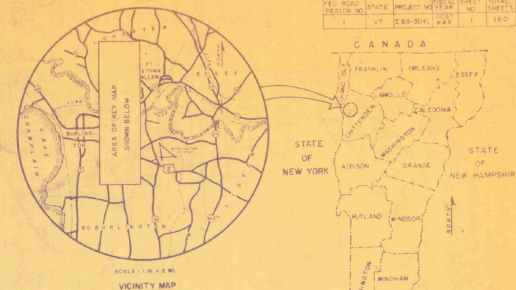
RECORD PLANS MATERIALS
REIN. STEEL - BETHLEHEM STEEL CO. - BETHLEHEM, PA.
CONCRETE C. ASHTY - ST. GRISWOLD & CO. - ESSEX JCT, VT.
SPLIT RAIL STEEL - VESTRUP STEEL CORP. - BURLINGTON, VT.
STEEL PILING - BURLINGTON, VT.
METAL PIPE - NORTHEASTERN METAL CO. CO. INC. - WESTMINSTER, ST. VT.
REIN. CONCRETE PIPE - AMERICAN MARKET CO. - WINDSOR, VT.
TRINGLAD PORTLAND CEMENT - GLENS FALLS CEMENT CO. - G.F.S. N.Y.
GRANULAR BORROW - EDLUND PIT - SOUTH BURLINGTON, VT.
NO. 1 STONE - WIDEMERS QUARRY - WINDSOR, VT.
NO. 2 STONE - CASE, WARNER CORP. - ESSEX JUNCTION, VT.
GRAVEL BACKFILL - CASEY PIT - HINEBURG, VT.
TIMBER PILING - KOPPERS CO. - WESTFIELD, N.H.

LENGTH OF ROADWAY 5327.56 FEET or 10.09 MILES
LENGTH OF BRIDGES 172.04 FEET or 0.033 MILE
LENGTH OF CONTRACT 55,000.00 FEET or 1.042 MILES

DESIGN DESIGNATION
ADT 1958 6,200
ADT 1976 14,340
D.V. 1976 2,075
D 80%
V 4%
70MPH

CONTRACTOR - W. H. HILMAN INC.
WESTBROOK, ME.
RESIDENT ENGINEER - J. D. CLIFFORD.
INSPECTOR - RICHARD COMI.
RECORD PLANS - J. D. CLIFFORD.

CONTRACT:
DATED - JUNE 13, 1961.
STARTED - JUNE 14, 1961.
COMPLETED - JULY 13, 1962.
ACCEPTED - JULY 13, 1962.



KEY MAP

LEGEND: X DESIGNATES ACCESS POINTS

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION OF JANUARY 1956 SUBMITTED TO THE BUREAU OF PUBLIC ROADS AS APPROVED JULY 2, 1956, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE
PROJECT I NO. 89-3(14)
SHEET 1 OF 160 SHEETS

APPROVED DATE JUN 15, 1962 CONSULTING ENGINEER	APPROVED DATE SECONDARY ENGINEER	APPROVED DATE 7/23/61 CONSTRUCTION ENGINEER	APPROVED DATE 7/23/61 BRIDGE ENGINEER	APPROVED DATE 7/23/61 DISTRICT ENGINEER	APPROVED DATE 7/23/61 HIGHWAY ENGINEER	APPROVED DATE 7/23/61 CITY ENGINEER	APPROVED DATE 7/23/61 SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD
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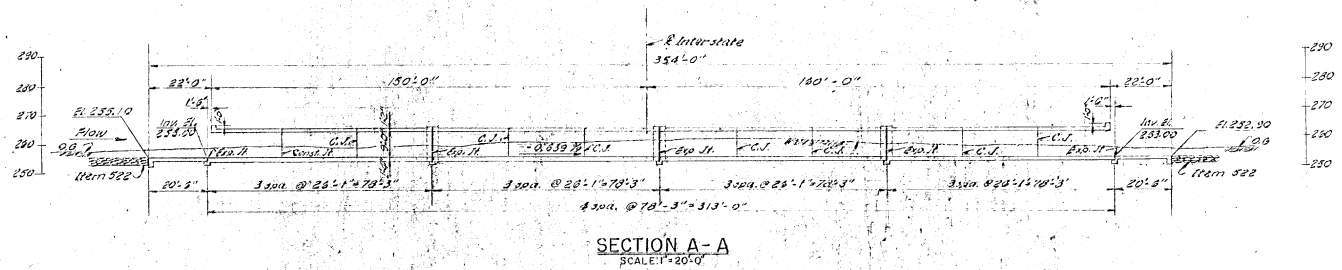
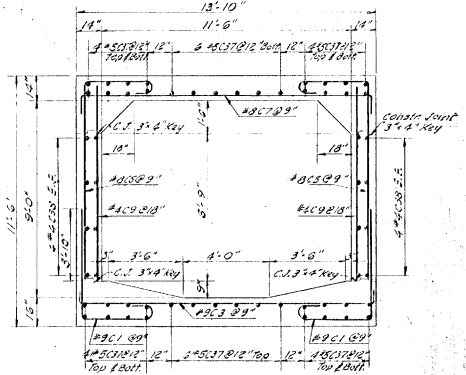
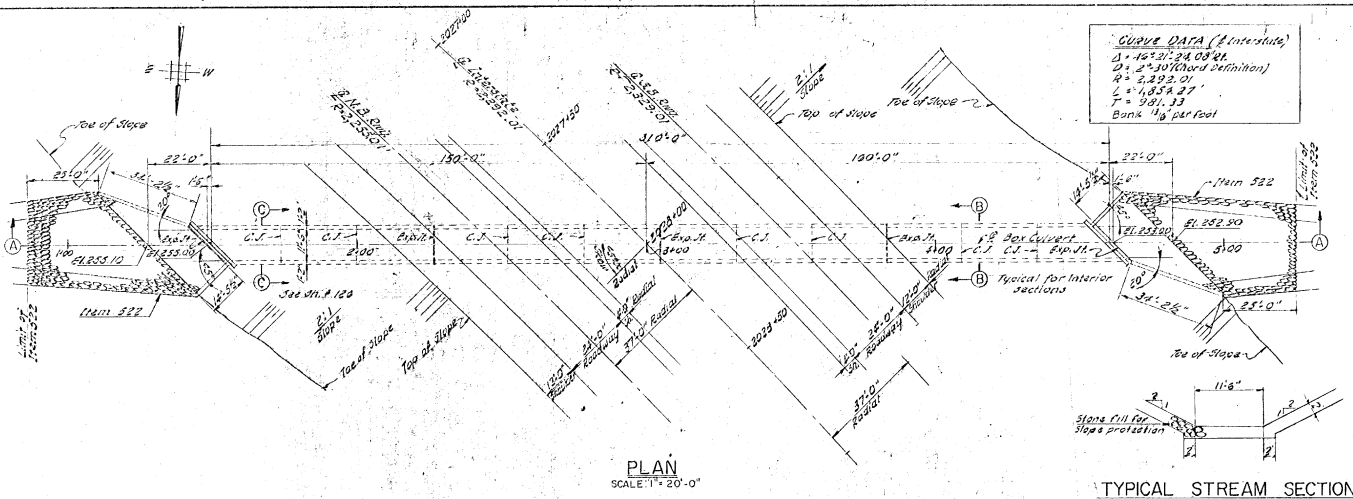
117-A

PROJECT South Burlington 44-8920
NUMBER I 89-3(14) CONTRACT NO. 3
TYPE P.C. Box 41.116, 310' long
Replacement of Upstream Southern Wingwall
CONTRACTOR Work done by District Forces
LOCATION Just south of I 89 over I 89
before Shelburne Interchange # 13
Originally built as Williston-S. Burlington
I 89-3(14) 45 in 1962

SCALE 1" = 1320 FT

GRADE ELEVATION	25.00	25.00
CURVE DATA		
DEFLECTION OF ANGLE	A	
DEGREE OF ANGLE	D	
RADIUS OF CURVE	R	
TANGENT DISTANCE	T	
LENGTH OF CURVE	L	
EXTERNAL DISTANCE	E	
OF INTERSECTION	PI	
POINT OF CURVE	P.C.	
POINT OF TANGENT	P.T.	
POINT ON TANGENT	P.O.T.	
POINT ON SUB-TANGENT	POST	

CURVE DATA (Interstate)
 Δ = 46°21'24.08" St.
 D = 2°30' (Chord Definition)
 R = 2,222.01'
 L = 1,054.27'
 T = 301.33'
 Bank 1/2' per foot



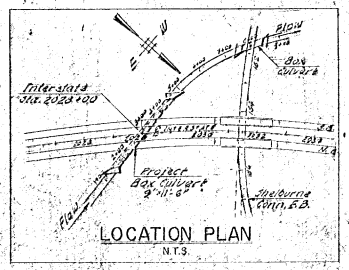
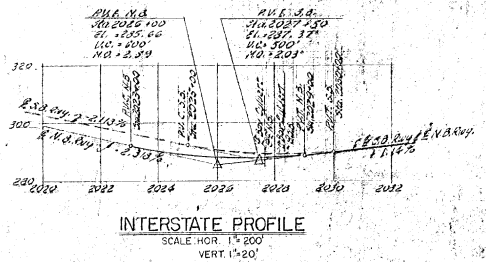
ESTIMATED QUANTITIES

ITEM #	ITEM	UNIT	NEAT	OVERLAP	TOTAL
107	Structure Excavation	CY	897	90	987
222	Brick Excavation	CY	290	29	319
102B	Concrete Slab 3' Max.	CY	705	40	745
102	Reinforcing Steel	LB	18,468		18,468
322	Stone Fill for Slope Protection	CY	233	23	256
106A	Channel Excavation in Earth (40')	CY	233	23	256

- 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 A.A.S.H.O. Standard Specifications dated 1957. Designed for H-20-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the A.A.S.H.O. Standard Specification Art. 3.2.6.
 - All Reinforcing to have a clear cover unless otherwise noted.
 - Elevation Datum Sea Level based on Bench Line U.S.C.G.S. Survey Level Line Vermont 25 (Second Order).
 - All exposed edges of concrete shall be chamfered 1/4" unless otherwise noted.
 - Allowable soil pressure 2.0 Tons per square foot.
 - All dimensions given are measured horizontally or vertically unless otherwise noted.

- LIST OF DRAWINGS**
- General Plans Sections BR 1
 - Details BR 2
 - Bar Schedule BR 3
 - Preliminary Information Sheet BR 4
 - Sh. 1-158

- REFERENCE DRAWINGS**
- Plan Interstate Sh. 11
 - Profile Interstate Sh. 18
 - Cross Sections Interstate Sh. 23, Sh. 34, Sh. 35
 - Cross Sections Channel Sh. 32



BR 1 OF 4

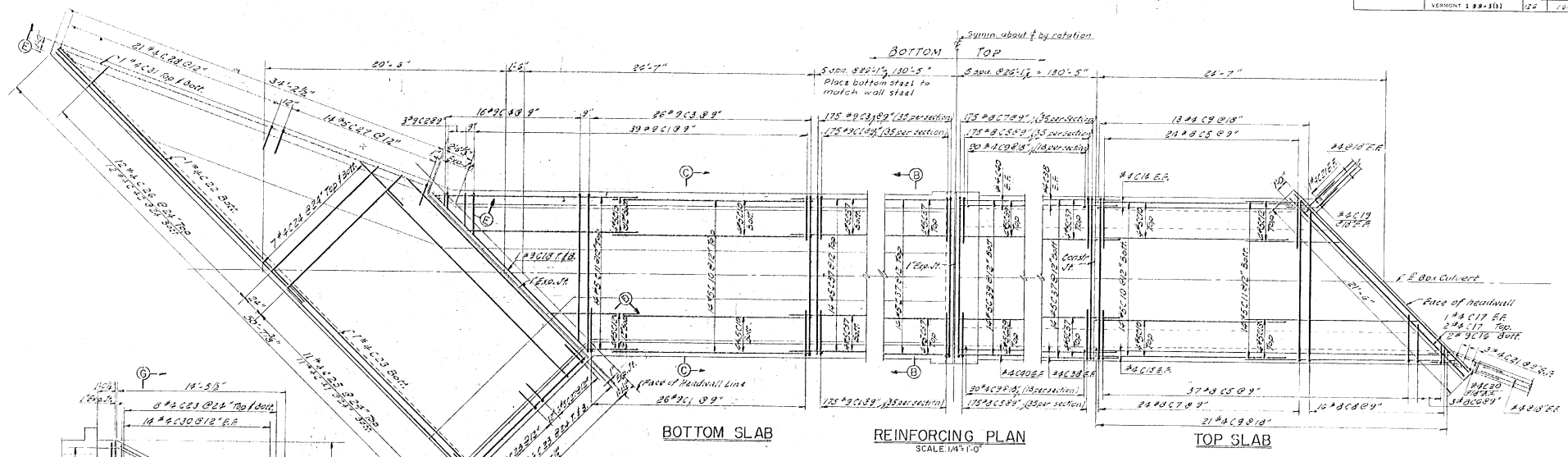
**STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS**

INTERSTATE PROJECT IN THE TOWNS OF
 WILLISTON, SOUTH BURLINGTON, WINDSOR, COLCHESTER

**OVERPASS STA. 2028 +00
 BOX CULVERT
 GENERAL PLAN & SECTIONS**

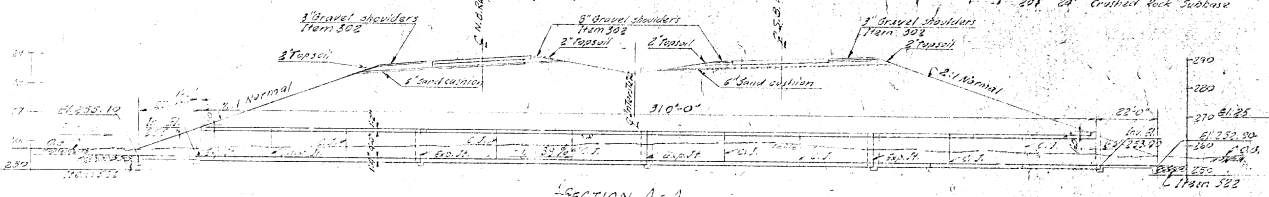
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

DRAWN BY: A.M.	IN CHARGE: J.J.	SCALE: AS SHOWN
CHECKED BY: J.J.	DATE:	
PROJECT NO. 1 43-313(4)	SHEET 125 OF 180	



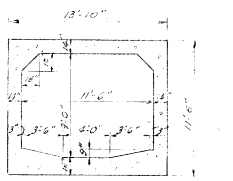
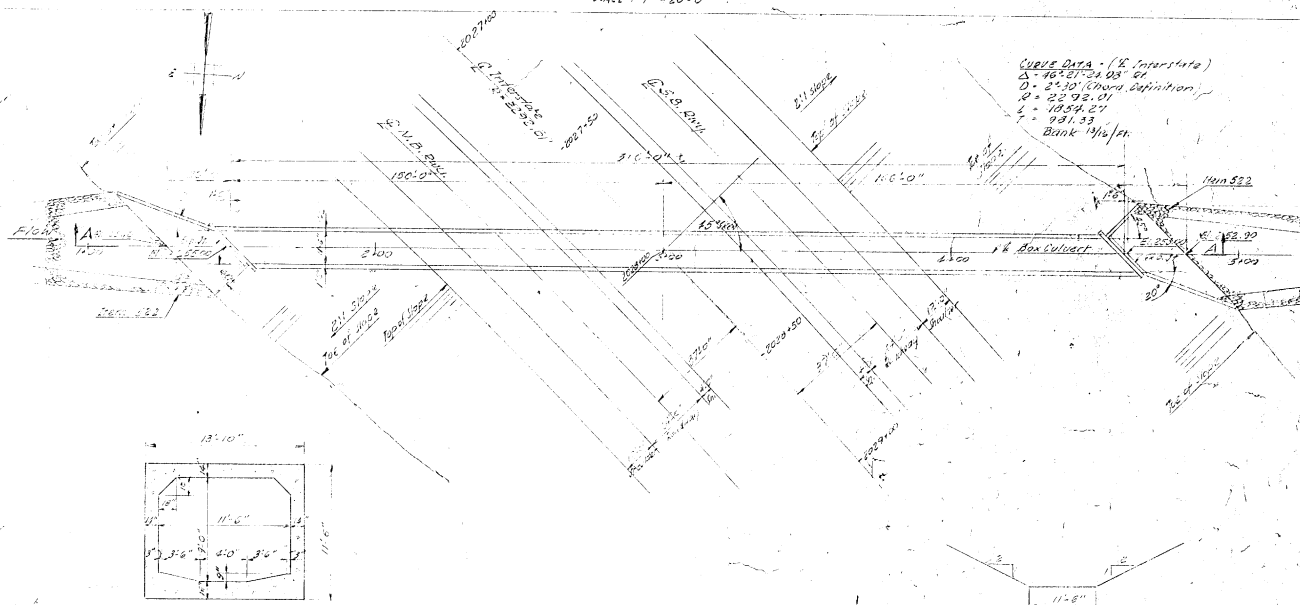
Structure No. 101
 11 ft. x 8 ft. x 20 ft. concrete box
 11 ft. x 8 ft. x 20 ft. crushed rock base
 11 ft. x 8 ft. x 20 ft. crushed rock subbase

HIGHWAY NO. 89
 STRUCTURE NO. 101
 PROJECT NO. 109-3(1)
 NAME OF HIGHWAY INTERSTATE
 COUNTY CHITTENDEN
 TOWN SOUTH BURLINGTON
 LOCATION INTERSTATE STA 2024+00

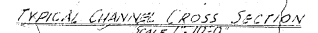


- EXISTING STRUCTURE**
- 1 RATED LOADING OF EXISTING STRUCTURE *NONE*
 - 2 TYPE OF EXISTING STRUCTURE
 - 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE
 - 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE COST OF REMOVAL
 - 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE
 - 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT
 - 7 ORDINARY HIGH WATER SURFACE 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 EXTREME H.W.
 - 10 SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
 - 11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS
 - 12 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED
 - 13 ADDITIONAL WATERWAY AREA PROVIDED
- NEW STRUCTURE**
- 1 RECOMMENDED TYPE OF STRUCTURE *Concrete Box Culvert*
 - 2 RECOMMENDED CLEAR SPAN OR SPANS
 - 3 MEASURED PARALLEL TO NEW HIGHWAY
 - 4 MEASURED AT RIGHT ANGLES TO E. STREAM *71.25'*
 - 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO
 - 6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE *255.0*
 - 7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE *306.0* SOURCE OF INFORMATION *Flood Map 1927*
 - 8 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? *No*
 - 9 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? *Yes* IS ORDINARY RISE RAPID? *Yes*
 - 10 LOW WATER ELEVATION AT NEW STRUCTURE *245.00*
 - 11 DRAINAGE AREA IN ACRES ABOVE STRUCTURE *65.50* CHARACTER OF TERRAINE *Rolling*
 - 12 IS STREAM EVER DRY? *No*
 - 13 VELOCITY OF STREAM AT HIGH WATER STAGE *3.75* ESTIMATED DISCHARGE *1,000 cu ft/sec*
 - 14 AREA FOLL OPENING *120.0* AREA BELOW ORDINARY H.W. *45.75*
 - 15 CHARACTER OF SCOUR *None* AREA BELOW ORDINARY H.W. *None*
 - 16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE *None*
 - 17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION
 - 18 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE *None* BOTH SIDES
 - 19 RECOMMENDED TYPE OF PAVEMENT *Asphalt Concrete*
 - 20 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. *None* ONE OR TWO WAYS PROBABLE COST
 - 21 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE *\$ 200.00*
 - 22 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? *No*
 - 23 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS? *None* SHOULD PILES BE USED? *No* EST. LOAD

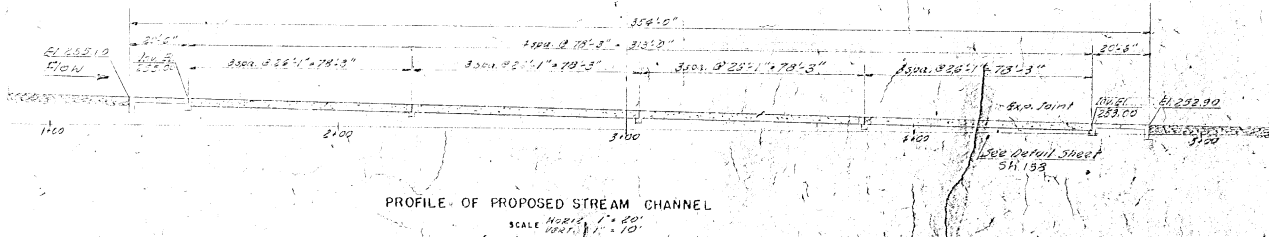
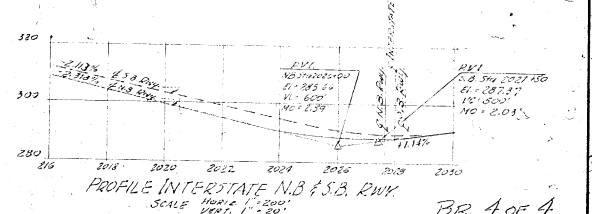
CURVE DATA - (R. Interchange)
 Δ = 162° 30' 00" 00"
 D = 25.92 (Chain Definition)
 L = 20.92 (0.1)
 L = 105.94 (2.1)
 L = 93.13
 Bank 1/4 in.



TYPICAL CULVERT CROSS SECTION
 SCALE: 1" = 4'-0"



TYPICAL CHANNEL CROSS SECTION
 SCALE: 1" = 10'-0"



PROFILE OF PROPOSED STREAM CHANNEL
 SCALE: HORIZ. 1" = 20', VERT. 1" = 20'

BR 4 OF 4

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

INTERSTATE _____ IN THE TOWNS OF
 WILLISTON, SOUTH BURLINGTON, WARREN, CANTON, CHITTENDEN

ROUTE NO. 89 LOG STA

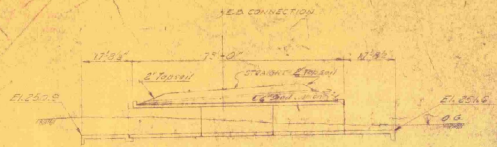
BOX CULVERT
 INTERSTATE STA 2023+00

DRAWN BY: [Signature] CHECKED BY: [Signature] SCALE AS SHOWN
 DESIGNED BY: [Signature] SCALE 1" = 20'

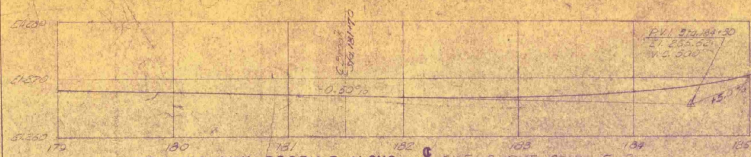
PROJECT: 109-3(1) SHEET 128 OF 130

CORRECT _____ APPROVED _____
 BRIDGE ENGINEER CHIEF ENGINEER

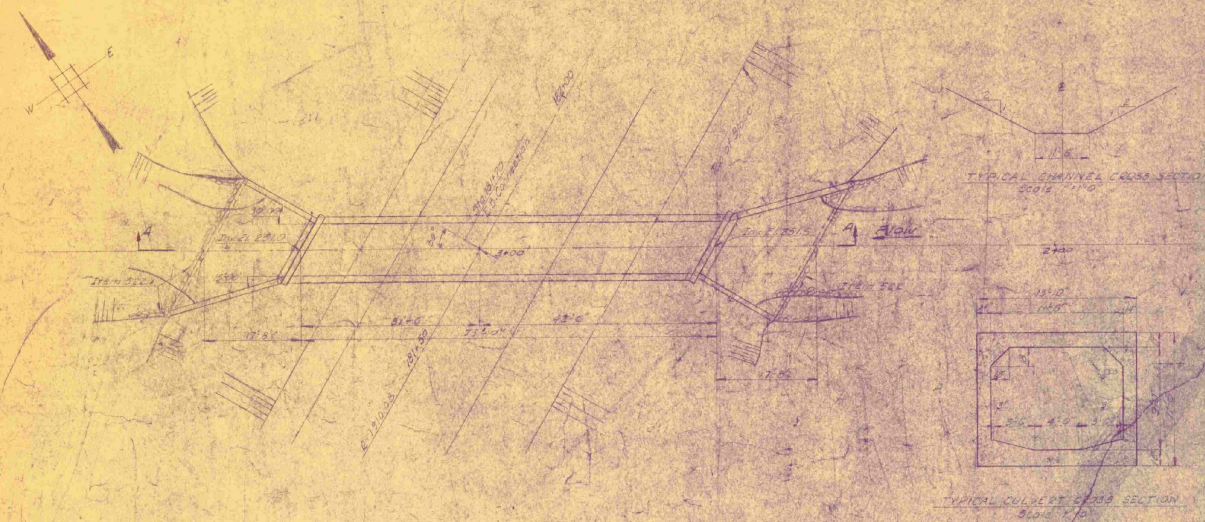
3 1/2" CONC. PAVEMENT - 1" ASPHALT
 2 1/2" CONC. CURB - 1" ASPHALT
 2 1/2" CONC. CURB - 1" ASPHALT
 3" GRAVEL SHOULDER - 1" ASPHALT



SECTION A-A
 SCALE 1/4" = 1'-0"



NEW HIGHWAY PROFILE ALONG SHELBURNE CONN. E. D.
 SCALE 1/4" = 1'-0"



PLAN
 SCALE 1/4" = 1'-0"



PROFILE OF PROPOSED STREAM CHANNEL
 SCALE 1/4" = 1'-0"

HIGHWAY NO. 100 NAME OF HIGHWAY INTERSTATE
 STRUCTURE NO. 100-10 COUNTY CHITTENDEN TOWN SOUTH BURLINGTON
 PROJECT NO. 100-10 LOCATION INTERCHANGE 22.5000

- EXISTING STRUCTURE**
- 1 RATED LOADING OF EXISTING STRUCTURE 1000
 - 2 TYPE OF EXISTING STRUCTURE PIER
 - 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE 10.00 COST OF REMOVAL 1000
 - 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE REMOVE
 - 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE NO
 - 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT NO
 - 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE 10.00 WATERWAY TO ORDINARY H.W. NO
 - 8 EXTREME HIGH WATER AT EXISTING STRUCTURE 10.00 WATERWAY TO EXTREME H.W. NO
 - 9 SPAN OF EXISTING BRIDGE UPSTREAM 100 SPAN OF EXISTING BRIDGE DOWNSTREAM 100
 - 10 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS PIER
 - 11 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE NO
 - 12 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED 10.00
 - 13 ADDITIONAL WATERWAY AREA PROVIDED NO
- NEW STRUCTURE**
- 1 RECOMMENDED TYPE OF STRUCTURE PIER
 - 2 RECOMMENDED CLEAR SPAN OR SPANS 100
 MEASURED PARALLEL TO & NEW HIGHWAY 100
 MEASURED AT RIGHT ANGLES TO & STREAM 100
 - 3 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO NO
 - 4 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 10.00
 - 5 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 10.00 SOURCE OF INFORMATION FIELD SURVEY
 - 6 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE NO
 - 7 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY RISE RAPID? NO
 - 8 LOW WATER ELEVATION AT NEW STRUCTURE 10.00
 - 9 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 1000 CHARACTER OF TERRAINE FLAT
 - 10 IS STREAM EVER DRY? NO
 - 11 VELOCITY OF STREAM AT HIGH WATER STAGE 10.00 ESTIMATED DISCHARGE 10000
 - 12 AREA FULL OPENING 1000 AREA BELOW ORDINARY H.W. 1000
 - 13 CHARACTER OF SCOUR SMALL DRIFT SMALL ICE NO
 - 14 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE NO
 - 15 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 10 BOTH SIDES NO
 - 16 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE NO
 - 17 RECOMMENDED TYPE OF PAVEMENT CONCRETE
 - 18 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. 10 ONE OR TWO WAYS PROBABLE COST
 - 19 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE 1000
 - 20 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES NO
 - 21 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 1000 SHOULD PILES BE USED? NO EST. LTH. NO

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

B.12 100-10
 STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 IN THE TOWNS OF
 ROUTE NO. 100 LOG STA. 22.5000
 DRAWN BY BBA CHECKED BY CS LEGAL DATE
 PROJECT NO. 100-10 SHEET NO. 100

CORRECT APPROVED
 BRIDGE ENGINEER CHIEF ENGINEER

HANGER 274

ONE

INITIALS

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01

So. Burlington
I-89-3 (14) B 65-2