

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
BRIDGE PROJECT  
TOWN OF RICHMOND  
COUNTY OF CHITTENDEN

U.S. ROUTE 2  
BRIDGE NO. 24  
WBS 1-14 ROADWAY DESIGN

PROJECT LOCATION: BEGINNING ON U.S. ROUTE 2 APPROXIMATELY 0.568 MILE  
EASTERLY OF THE WILLISTON/RICHMOND TOWN LINE AND  
EXTENDING EASTERLY 0.331 MILE (1,750 FEET).

PROJECT DESCRIPTION: PROJECT CONSISTS OF REHABILITATING AND WIDENING  
EXISTING TRUSS BRIDGE NO. 24 OVER THE WINOOSKIRIVER,  
PLACEMENT OF A NEW PRECAST CONCRETE BOX WITH  
RELATED ROADWAY WORK AND INCIDENTAL ITEMS.

LENGTH OF STRUCTURE: 356.00 FEET  
LENGTH OF ROADWAY: 1,394.00 FEET  
LENGTH OF PROJECT: 1,750.00 FEET

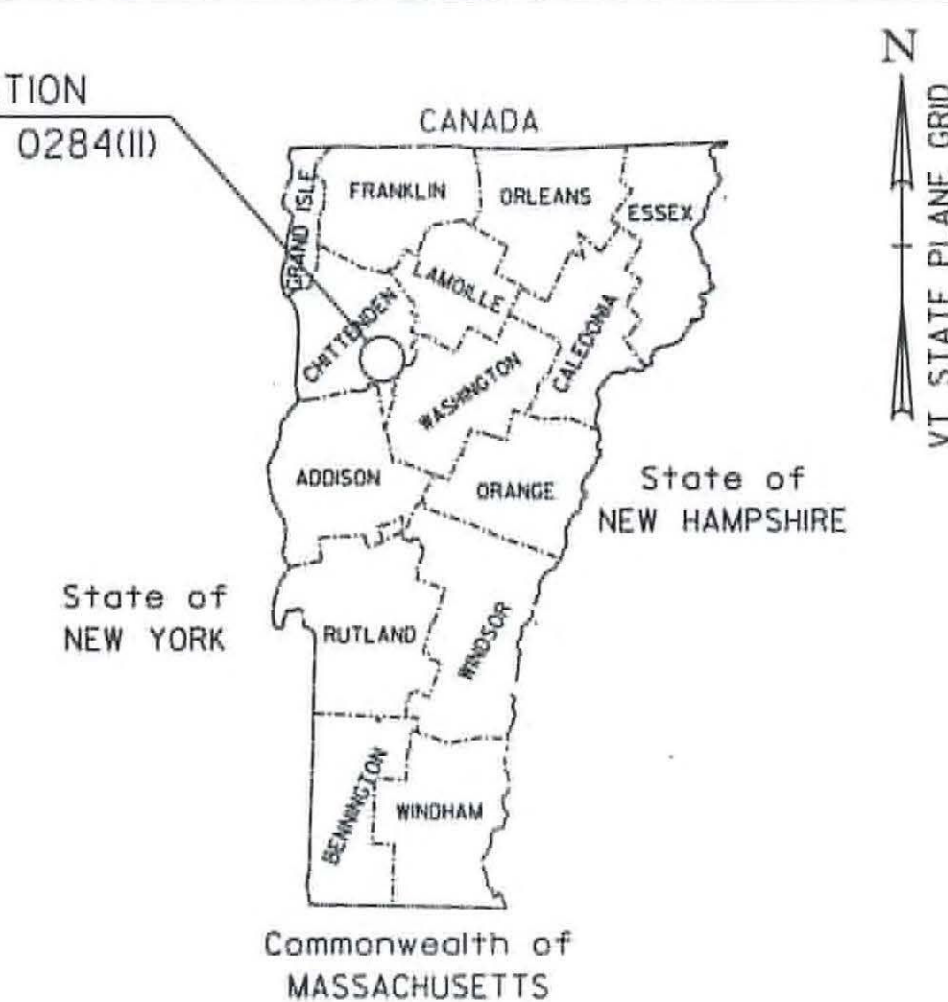
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VAOT STANDARDS

- A-62 06-30-95
- A-76 03-03-03
- B-5 06-01-94
- B-71 07-08-05
- D-20 03-03-03
- D-30 08-13-07
- F-1 06-01-94
- G-1 01-03-00
- G-1d 01-03-00
- S-360a 12-14-09
- S-360b 12-14-09
- S-363 12-14-09

PROJECT LOCATION  
RICHMOND STP-RS 0284(II)

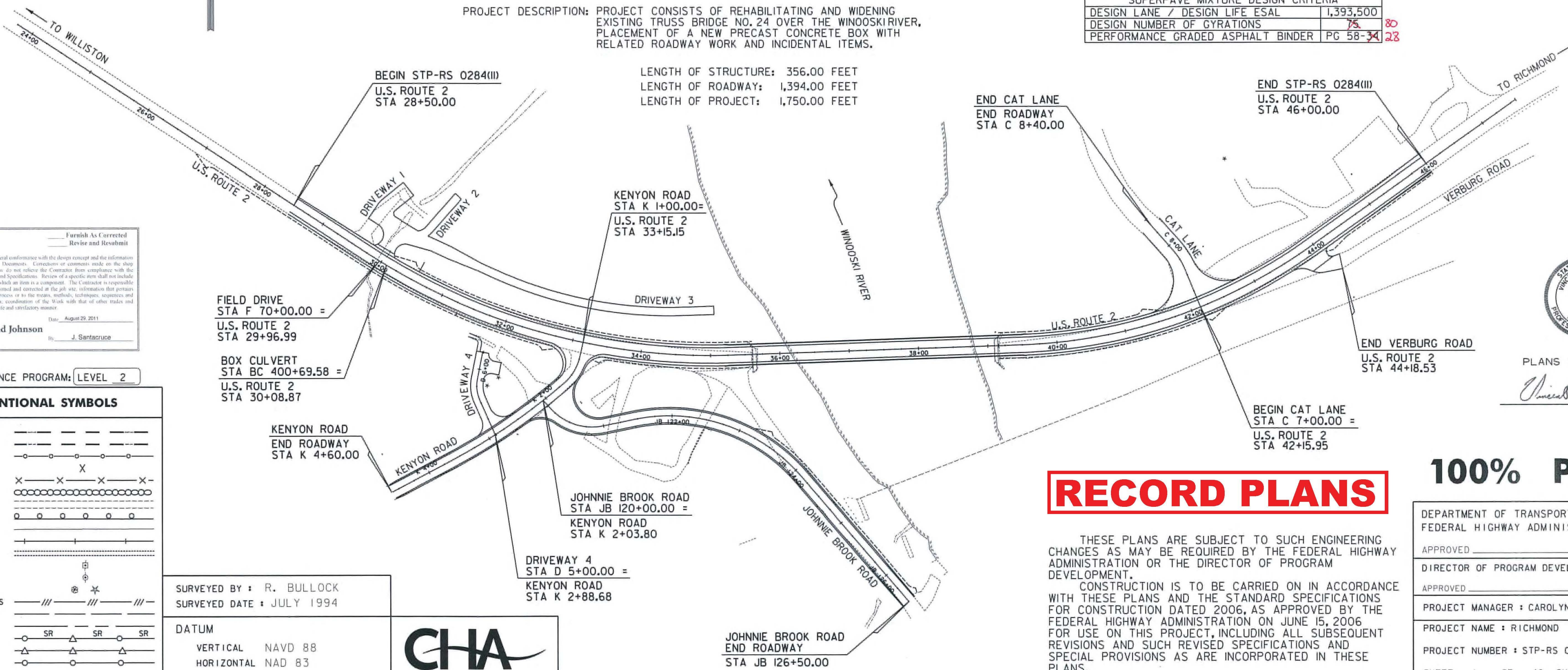
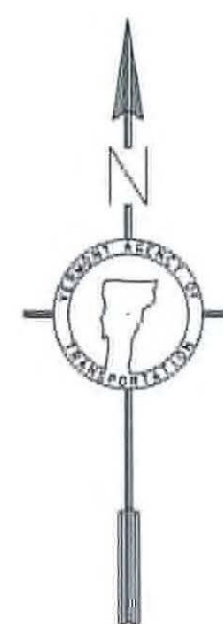


TRAFFIC DATA

2007 ADT	=	4000
2027 ADT	=	5300
2027 ADTT	=	340
2027 DHV	=	600
T	=	4%
D	=	64%
V	=	40 MPH

2007 ~ 2027 CUM. ESALS = 1,101,000  
2007 ~ 2047 CUM. ESALS = 2,787,000  
MAJOR COLLECTOR

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	1,393,500
DESIGN NUMBER OF GYRATIONS	75.80
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34.28



**McFarland Johnson**  
August 29, 2011  
J. Santacrucce

QUALITY ASSURANCE PROGRAM: LEVEL 2

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

SURVEYED BY : R. BULLOCK  
SURVEYED DATE : JULY 1994

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83



PLANS PREPARED BY  
*Vincent H. Rainier*

**RECORD PLANS**

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.

**100% PLANS**

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED _____ DATE _____	
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED _____ DATE _____	
PROJECT MANAGER : CAROLYN CARLSON	
PROJECT NAME : RICHMOND	
PROJECT NUMBER : STP-RS 0284 (11)	
SHEET 1 OF 46 SHEETS	

FILE NAME : v:\projects\stps\stps\11-14\roadway design\stps\rs0284.dgn  
DATE/TIME : 8/25/2011 10:00:00 AM  
USER : JBS