

J.P. Carreard & Sons, Inc.

ERNEST J. BRON
C-10014

RUTLAND BRIDGE
JPC #23430-014

INSERT DESIGN FOR WATER LINE BRACKET
(WORK W/ CARREARD SHOP DWGS)

FOR TYPE #2 BRACKET

$$V_1 = 60 \text{ PLF} \times 9.5' = 570 \text{ LB WATER LINE } \&$$

$$V_2 = 66 \text{ LB BRACKET}$$

$$V_{TOT} = \frac{570}{66} = 636 \text{ LB ; THERE IS NO}$$

TENSION ON BOTTOM INSERT.

EDGE DISTANCE AT BOTTOM JOINT IS 5"

AUG SIZE OF INSERT IS 1" ϕ AS BUY HOLE

IN BRACKET IS 1 1/4" ϕ .

FROM ATTACHED DATED SUPPLIER PRODUCT

LITERATURE

WE 1" ϕ 8 NL F-42 600 FERRULE INSERT

SWL(V) 3111.4 IS 4060 LB FOR

8" EDGE DISTANCE, SINCE THERE IS ONLY

A 5" EDGE DISTANCE, USE INFO FOR

5/8" - 11 NL INSERT F-42 INSERT

$$SWL(V) 3111.4 = 1990 \text{ LB} > 636 \text{ LB, OK}$$

(NOTE: IT IS CONSERVATIVELY ASSUMED THAT

ALL VERTICAL SHOWN LOAD IS REACTED BY

THEM INSERT)



Vermont Agency of Transportation
RECEIVED

CK'D BY M. Umberger OK'D BY C. Mooney

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RESUBMIT BY C. Carlson DATE 06/30/2014

