

VERMONT ROUTE 28 - BRIDGE # 6

PROJ. BF 7000 (20)

ST. JOHNSBURY, VT



LIFT DESIGN CALCULATIONS  
(WORK WITH JPC SHOP DRAWINGS)

SOLID SLABS

$$f'_c = 5000 \text{ PSI} \quad f'_{ci} = 3000 \text{ PSI}$$

$$W_{T-MAX} = 6.47T = 12.94K$$

THERE ARE (4) LIFT LOCATIONS PER SLAB AND  
ASSUMING A MINIMUM LIFT ANGLE OF  $60^\circ$  FROM  
THE HORIZONTAL:

$$\text{DESIGN LOAD / LIFT LOCATION} = \frac{12.94K}{(4)(\sin 60^\circ)} = 3.74K$$

FROM ATTACHED DAYTON SUPREMACY PRODUCT LITERATURE

USE 2-TON X  $6\frac{3}{4}$ " LONG SWIFT LIFT ANCHORS

$$\text{SWL (4:1 S.F.)} = 4,000 \text{ LB} > 3,740 \text{ LB} \quad \text{OK} \checkmark$$