Summary - P-52 Swift Lift Anchor Safe Working Load Calculations
DAYTON SUPERIOR CORPORATION

Precaster: Cold River Bridges

Project: Plymouth Wing Walls - P52, 20-Ton X 10" SL Anchors

Location: New Hampshire

Dealer: Harris Rebar

****

Recommended P-52 Swift Lift (SL) Anchor	=	20.00	tons
Recommended length of SL Anchor	=	10.000	in. long
SL Anchor set back from face of concrete	=	1.063	inches
SL Anchor embedment depth (Le)	=	10.438	inches
SL Anchor foot diameter (Dh)	=	2.813	inches
Concrete compressive strength	=	4,000	psi at initial lift
Concrete unit weight	=	150.00	lbs. per cubic foot
SL Anchor front edge distance (T1)	=	21.000	inches
SL Anchor back edge distance (T2)	=	21.000	inches
SL Anchor left edge distance (T3)	=	21.000	inches
SL Anchor right edge distance (T4)	=	21.000	inches
Concrete ultimate pull out capacity	=	108,650	lbs. per anchor
SL Anchor ultimate mechanical capacity	=	160,000	lbs. per anchor
Recommended factor of safety	=	4.00	to 1 (Ult. to SWL)
SL Anchor tension safe working load	=	27,150	lbs. per anchor

By: Brad Phillips Date: 04/26/2013