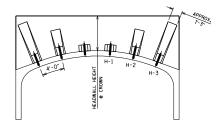


NOT TO SCALE



SAMPLE ELEVATION

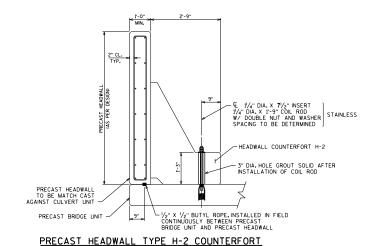
THE ACTUAL NUMBER AND TYPE OF PRECAST HEADWALL COUNTERFORTS IS TO BE DESIGNED. HOWEVER, USE THE FOLLOWING CHART AS A GENERAL GUIDE TO FEASIBILITY OF COUNTERFORT USE.

	COUNTERFORT	MAX HEADWALL HEIGHT @ COUNTERFORT LOCATION	
		NO SURCHARGE	W/ 2'-0" SURCHARGE
14'-0" SPAN	H-1	7'-0"	5'-0"
	H-2	7'-0"	5'-0"
	H-3	8'-0"	6'-0"
20'-0" - 42'-0" SPANS	H-1	8'-0"	6'-0"
	H-2	10'-0"	7'-0"
	H-3	10'-0"	8'-0"

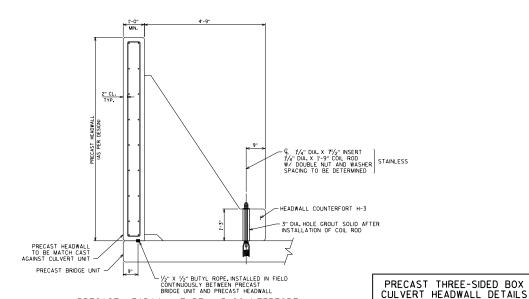
LRFD HEADWALL COUNTERFORTS

- LRFD HEADWALL COUNTERFORTS

 HEADWALL DETAILS SHOWN HERE HAVE ONLY BEEN DESIGNED FOR THE
 FOLLOWING 2 LOAD CASES:
 DEARTH PRESSURE LIVE LOAD SURCHARGE
 THESE DETAILS ARE NOT TO BE USED WHERE A VEHICLE LOAD CAN BE
 TRANSMITTED THROUGH A BARRIER TO THE HEADWALL.
 ASSUMED 4-0° SPACING OF COUNTERFORTS
 I'-O° HEADWALL THICKNESS MIN,
 SOIL BEHIND HEADWALL IS AT SAME ELEVATION AS TOP OF HEADWALL
 ADDITIONAL HEADWALL HEIGHT MAY BE ACHIEVED WITH CLOSER
 COUNTERFORT SPACING
 FOR DETACHED HEADWALL DESIGNS ONLY



NOT TO SCALE



PRECAST HEADWALL TYPE H-3 COUNTERFORT NOT TO SCALE

BUREAU OF S RUC URES

APPROVED: Laura Shadewald