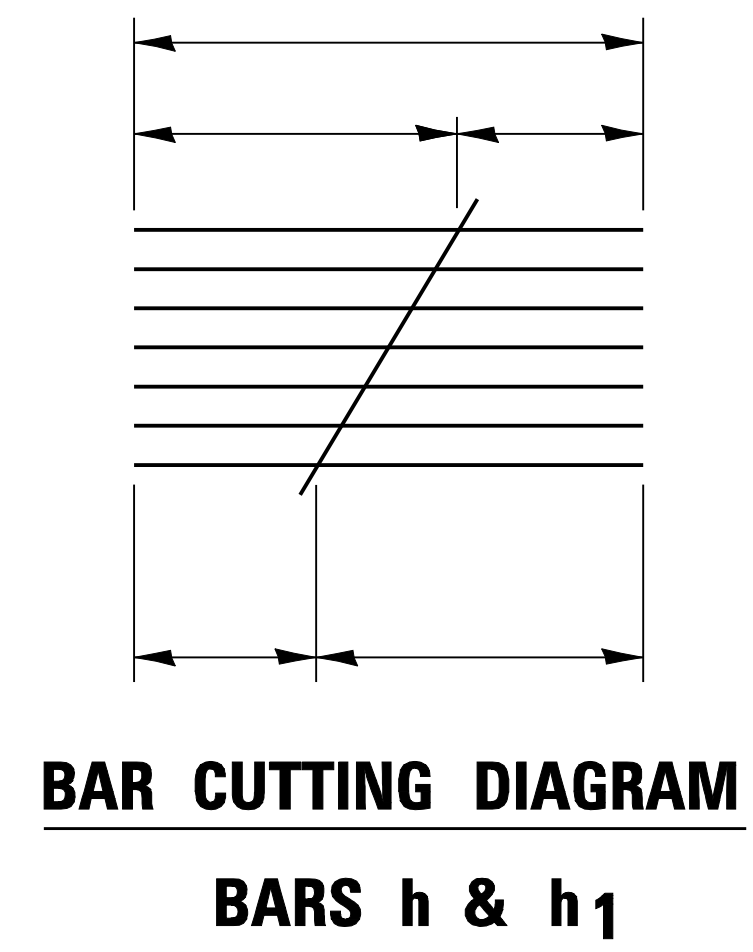


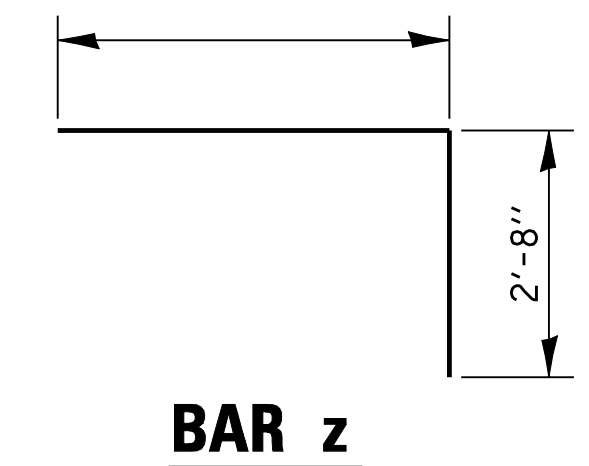
HALF LONG SECTION

HALF ELEVATION

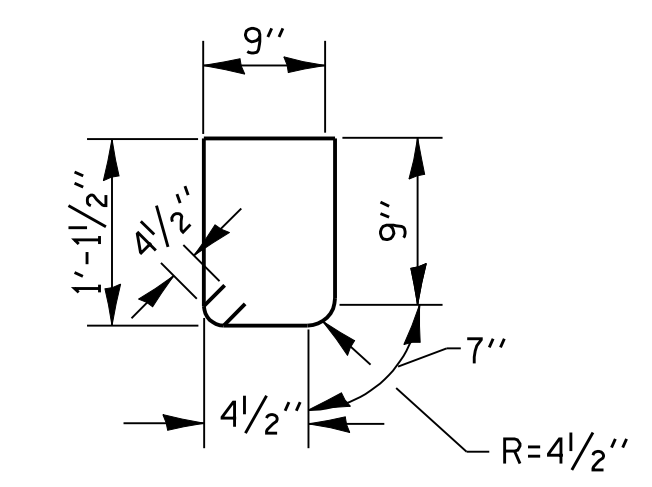
DIMENSIONS AT RT. ∟'S TO C ROADWAY



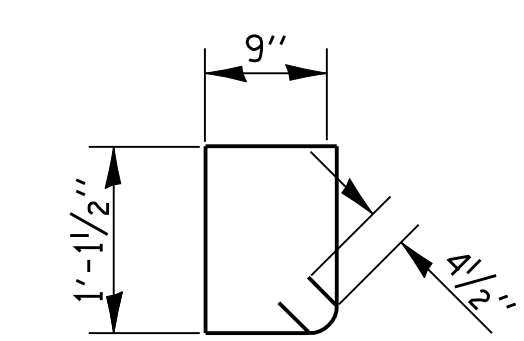
**BAR CUTTING DIAGRAM
BARS h & h1**



BAR z



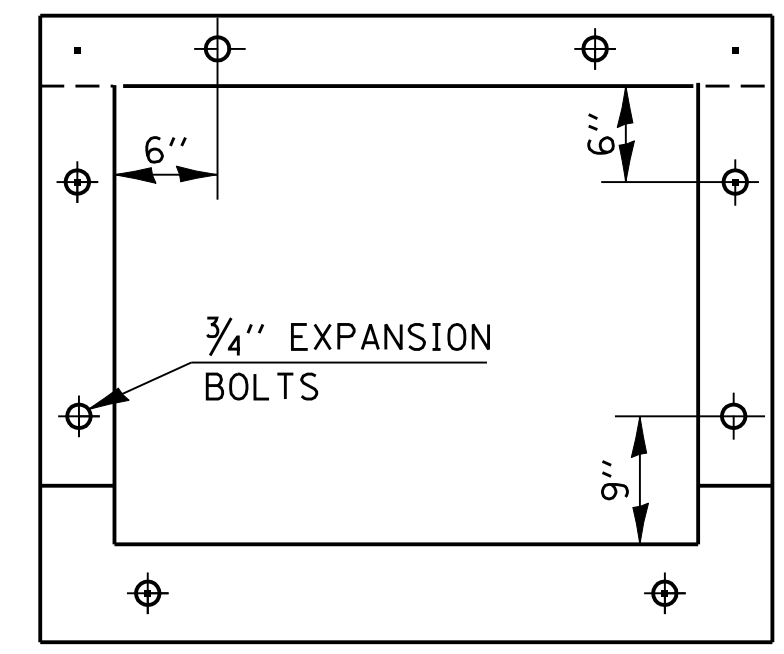
**BAR s
(UPSTREAM)**



**BAR s1
(DOWNSTREAM)**

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
a1			
a2		#4	
a3			
d			
h			
h1			
h3			
h4			
h5			
h6			
h7			
h8			
h9			
h10		#6	
h11			
s			
s1			
v			
v1(E)			
v2(E)			
v3(E)			
v4(E)			
v5(E)			
v6(E)			
v7(E)			
v8(E)			
w		#5	
w1		#5	
z			
CONCRETE BOX CULVERTS		CU. YD.	
REINFORCEMENT BARS		LBS.	
REIN. BARS (EPOXY CTD.)		LBS.	
CONCRETE REMOVAL		CU. YD.	
EXPANSION BOLTS		EACH	

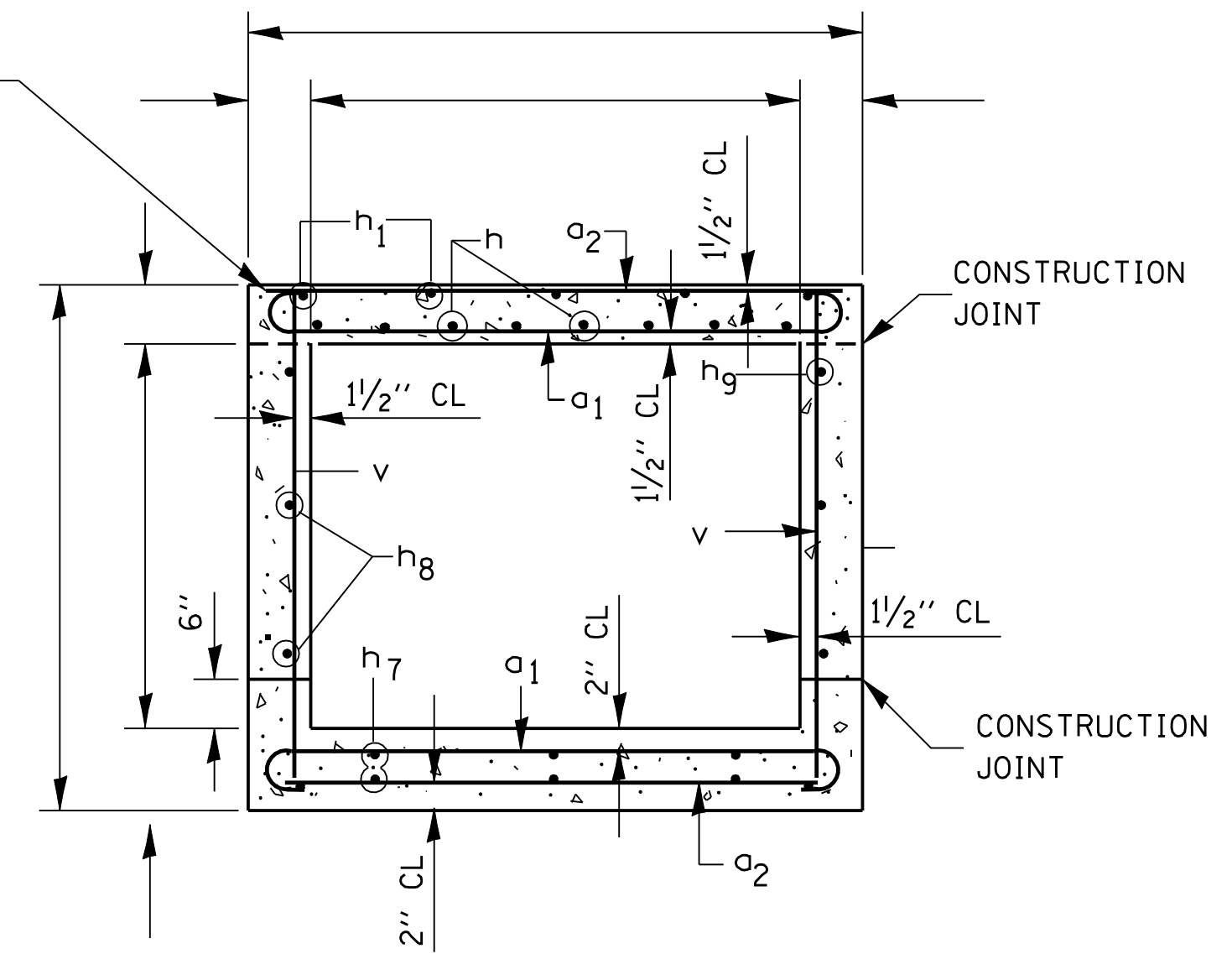


SIDEWALLS @ " CTS.
TOP & BOTTOM @ " CTS.

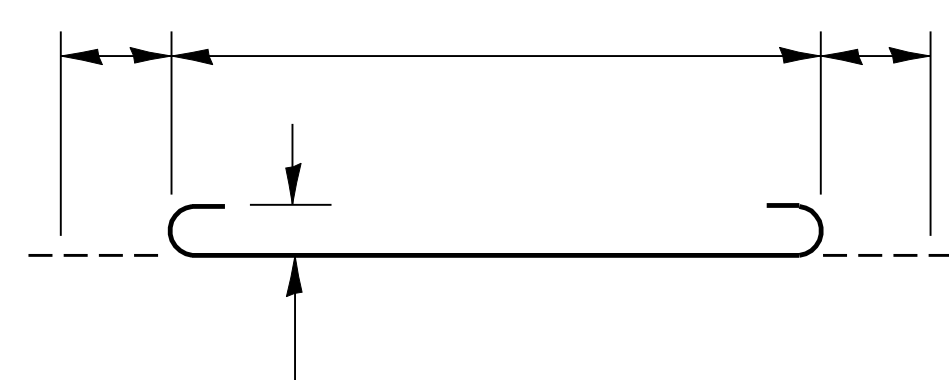
EXPANSION BOLT LOCATION

NOTE: EXPANSION BOLTS SHALL CONSIST OF SELF DRILL EXPANSION SHIELDS AND 3/4" DIAMETER HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.

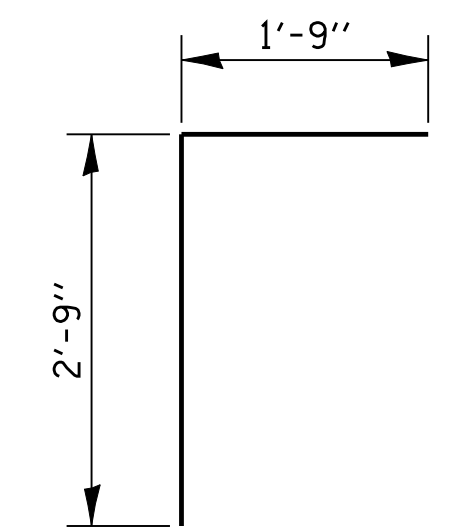
TILT HOOK OF a1 BARS IF NECESSARY FOR 1 1/2" MIN CL



SECTION THRU BARREL



BAR a1



BAR d