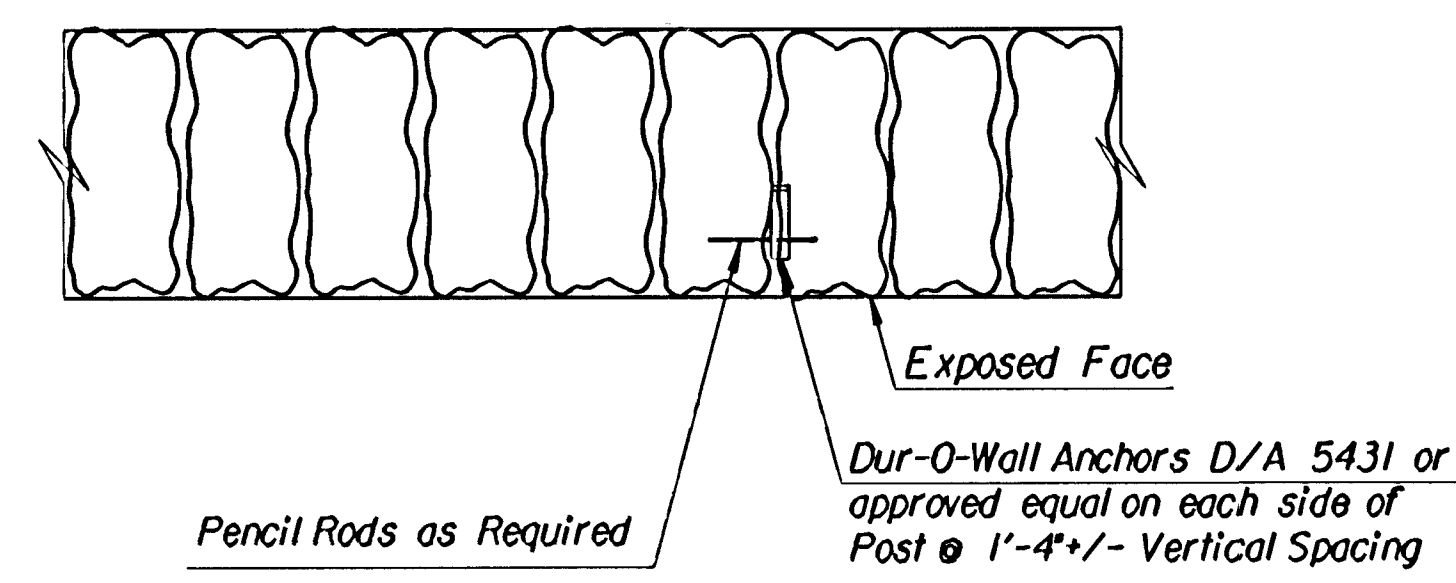
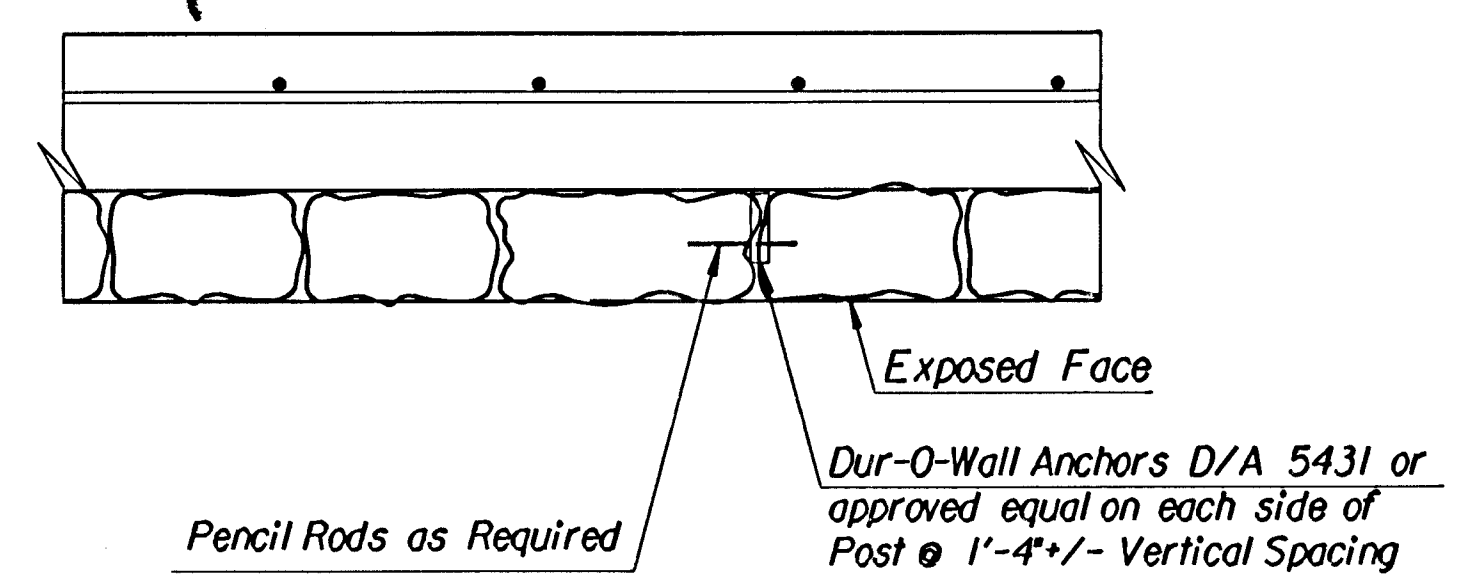
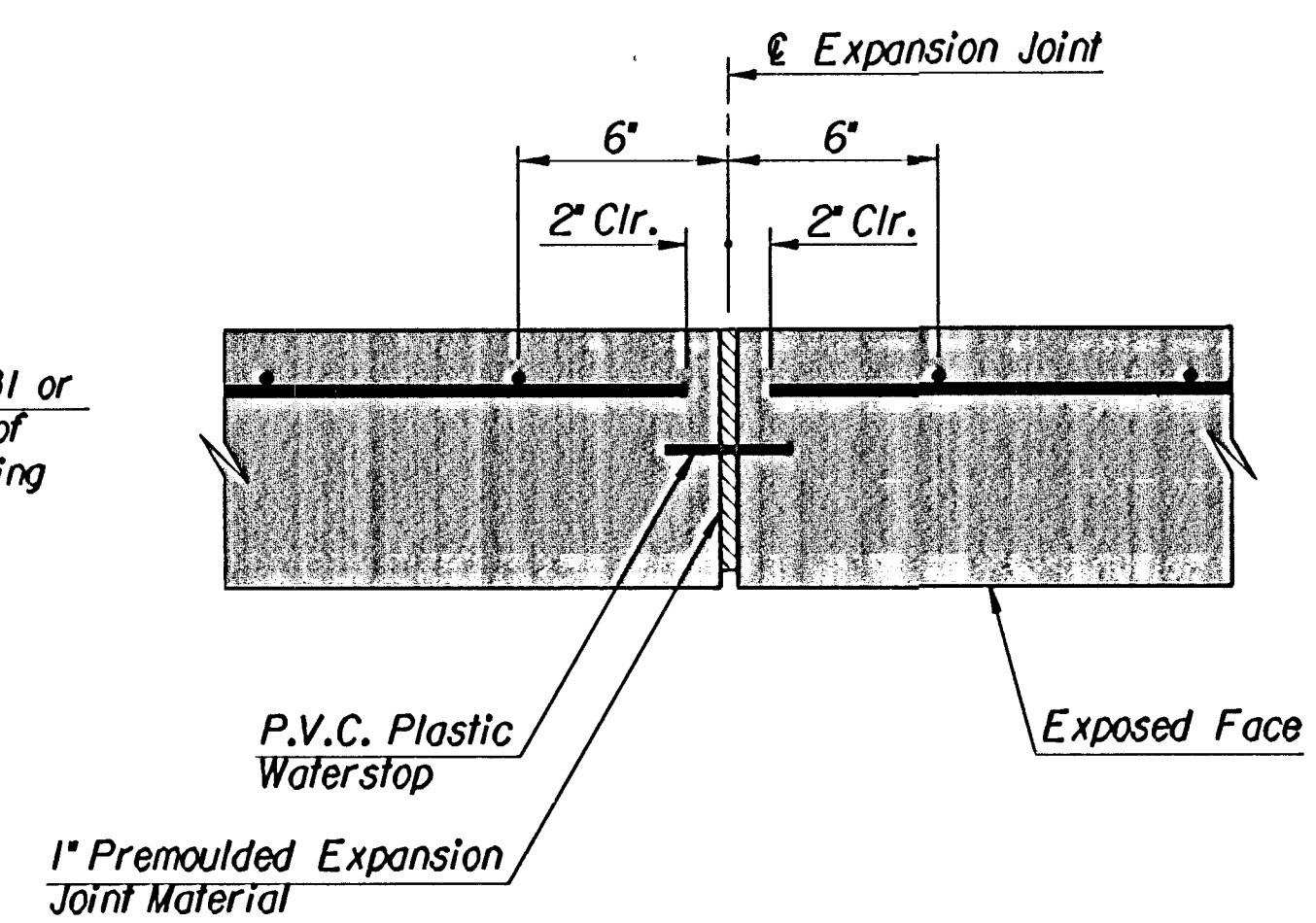




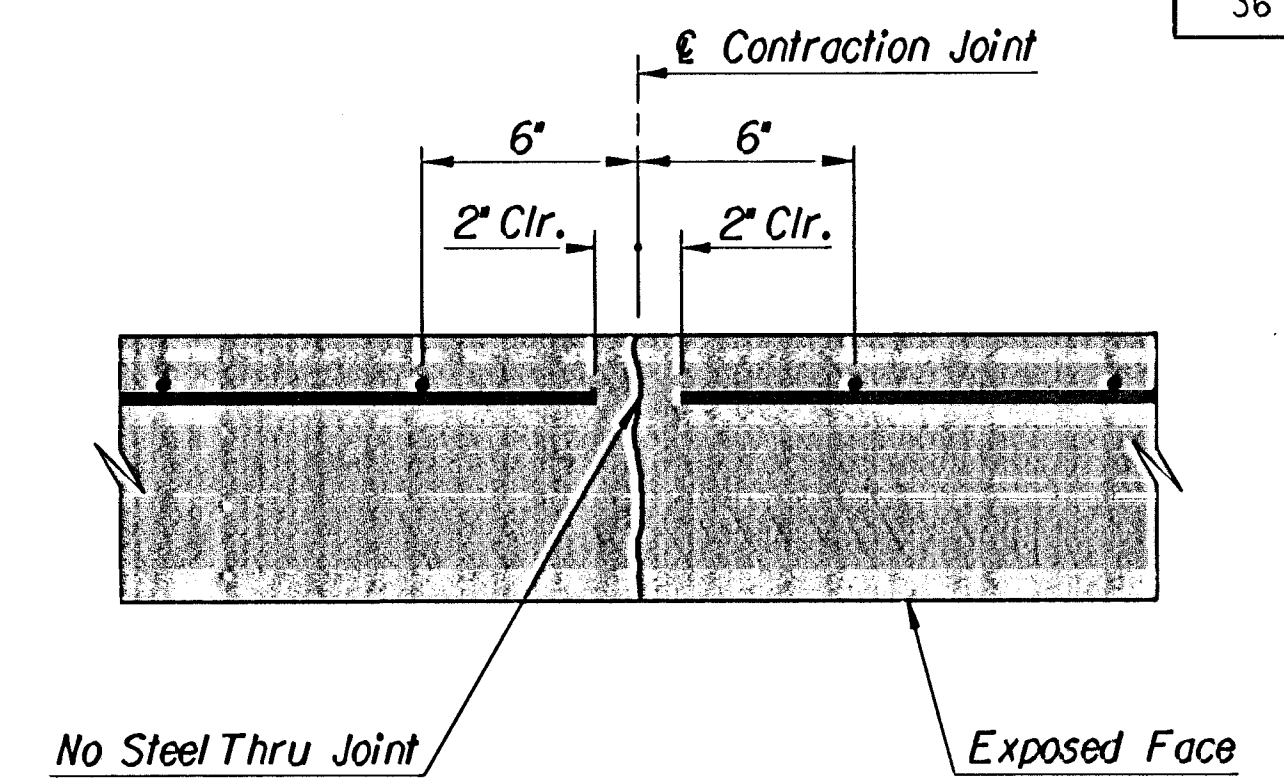
SECTION C-C



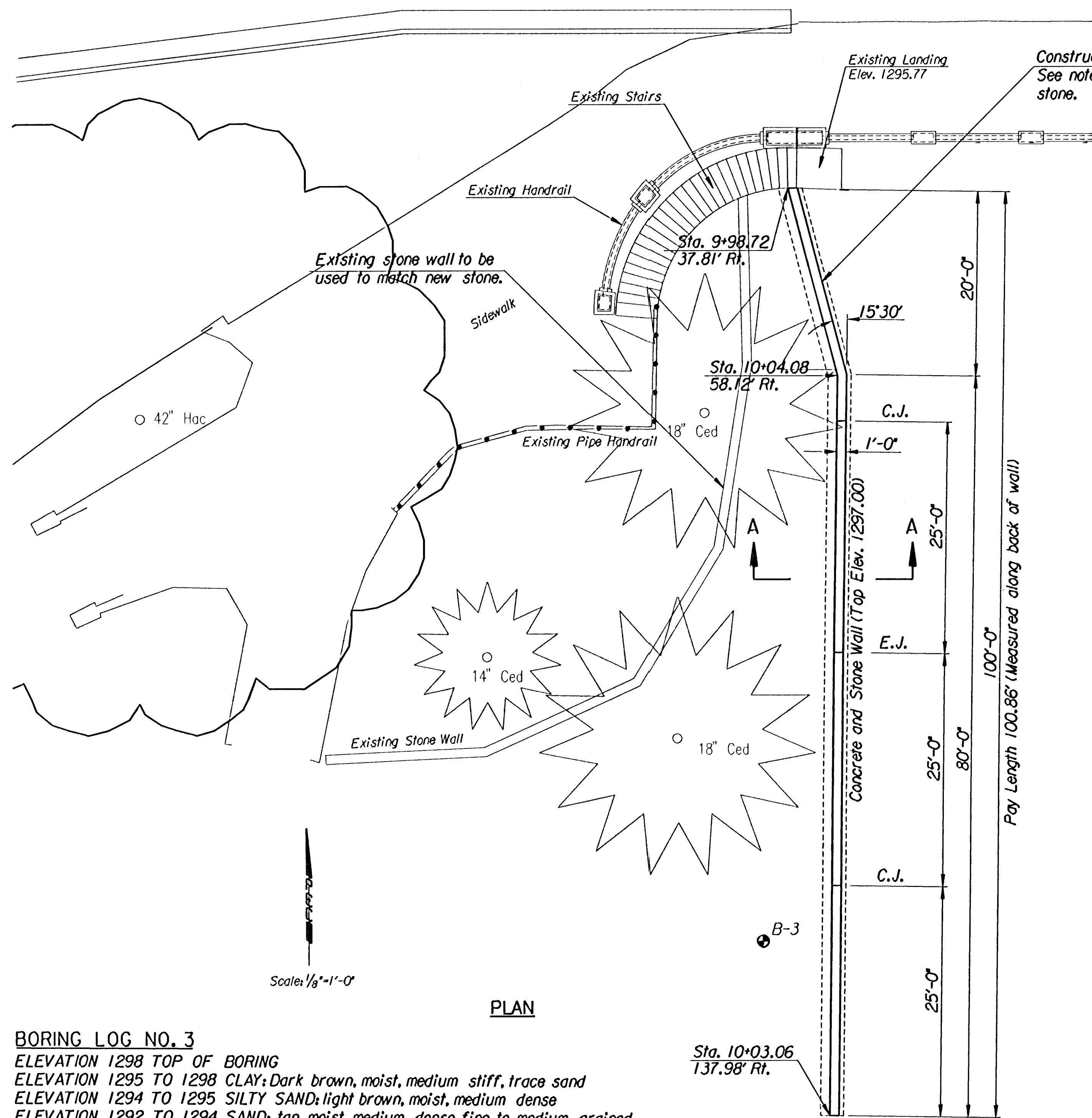
SECTION B-B



EXPANSION JOINT DETAIL (E.J.)

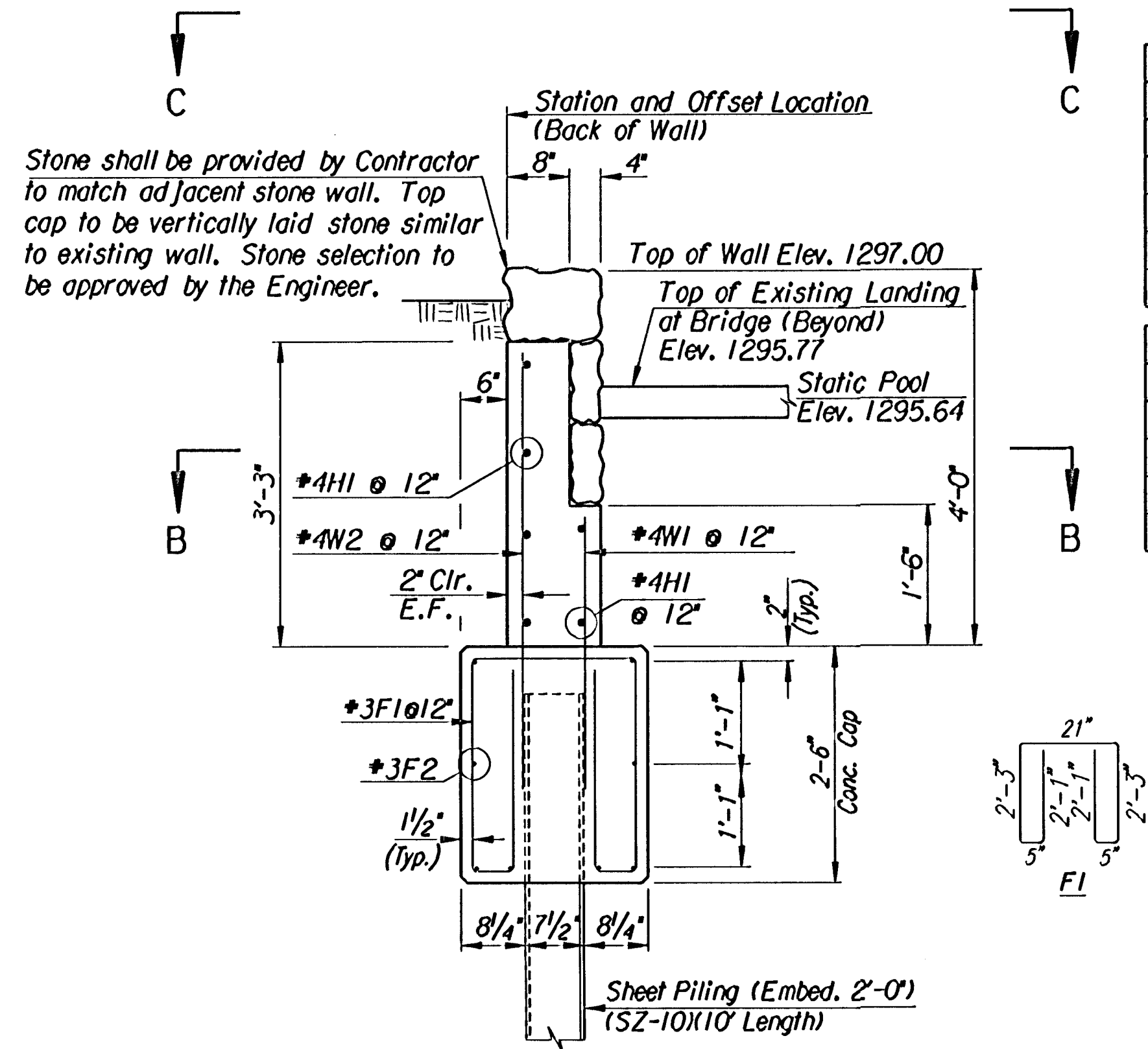


CONTRACTION JOINT DETAIL (C.J.)



PLAN

BORING LOG NO. 3
ELEVATION 1298 TOP OF BORING
ELEVATION 1295 TO 1298 CLAY: Dark brown, moist, medium stiff, trace sand
ELEVATION 1294 TO 1295 SILTY SAND: light brown, moist, medium dense
ELEVATION 1292 TO 1294 SAND: tan, moist, medium dense fine to medium grained
ELEVATION 1291 TO 1292 CLAY: brown, moist, medium stiff
ELEVATION 1283 TO 1291 SAND: tan, very moist to saturated, loose, medium grained



SECTION A-A

Size Based on A.S.T.M. A-328 Gr. 36 Shoreline Sheet Piling
New Haven, MI., and distributed by Hammer and Steel, Inc.
Shawnee Mission, Kansas (913-681-9295) or Equivalent Section.

REINFORCING STEEL							
Straight Bars				* Bent Bars			
Mark	No.	Size	Length	Mark	No.	Size	Length
H1	24	*4	24'-8"	F1	101	*3	11'-3"
W1	101	*4	2'-10"				
W2	101	*4	4'-7"				
F2	32	*3	24'-8"				

WALL QUANTITIES (Information only)		
Item	Quantity	Unit
Reinforcing Steel	1620	Lbs.
Concrete	287	CY.
Stone	135	C.F.
Sheet Piling (SZ-10)	1,009	Sq.Ft.

* See Bending Diagram

CONCRETE RETAINING WALL NOTES

CONCRETE: Bevel all exposed edges with a 3/4" triangular molding or finish with an approved edging tool. Class AAA Concrete (AE) shall have a minimum 28 day compressive strength of 4,000 p.s.i.

REINFORCING STEEL: All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted. All reinforcing steel shall conform to A.S.T.M. designation A615 (Grade 60). End and side clearance to reinforcing to be 2" unless noted.

PAYMENT: The retaining wall shall be paid for per linear foot. This shall include all concrete, reinforcing steel, sheet piling, stone, mortar, miscellaneous materials, labor, tools, equipment and incidentals necessary to complete the work.

CITY OF WICHITA, KANSAS		By		Date
JAMES L. ARMOUR, P.E. - ACTING CITY ENGINEER				
MURDOCK BRIDGE				
OVER LITTLE ARKANSAS RIVER				
RETAINING WALL				
CITY OF WICHITA PROJECT NO. 472-83895				
Professional Engineering Consultants, P.A.				
303 S. TOPEKA • WICHITA, KANSAS 67202				
316-262-2691 • FAX 316-262-3003				
Designed by	R.A.S.	Checked by	R.A.S.	
Drawn by	R.A.S./W.L.L.	Date	March 2004	Job No. 96940-2