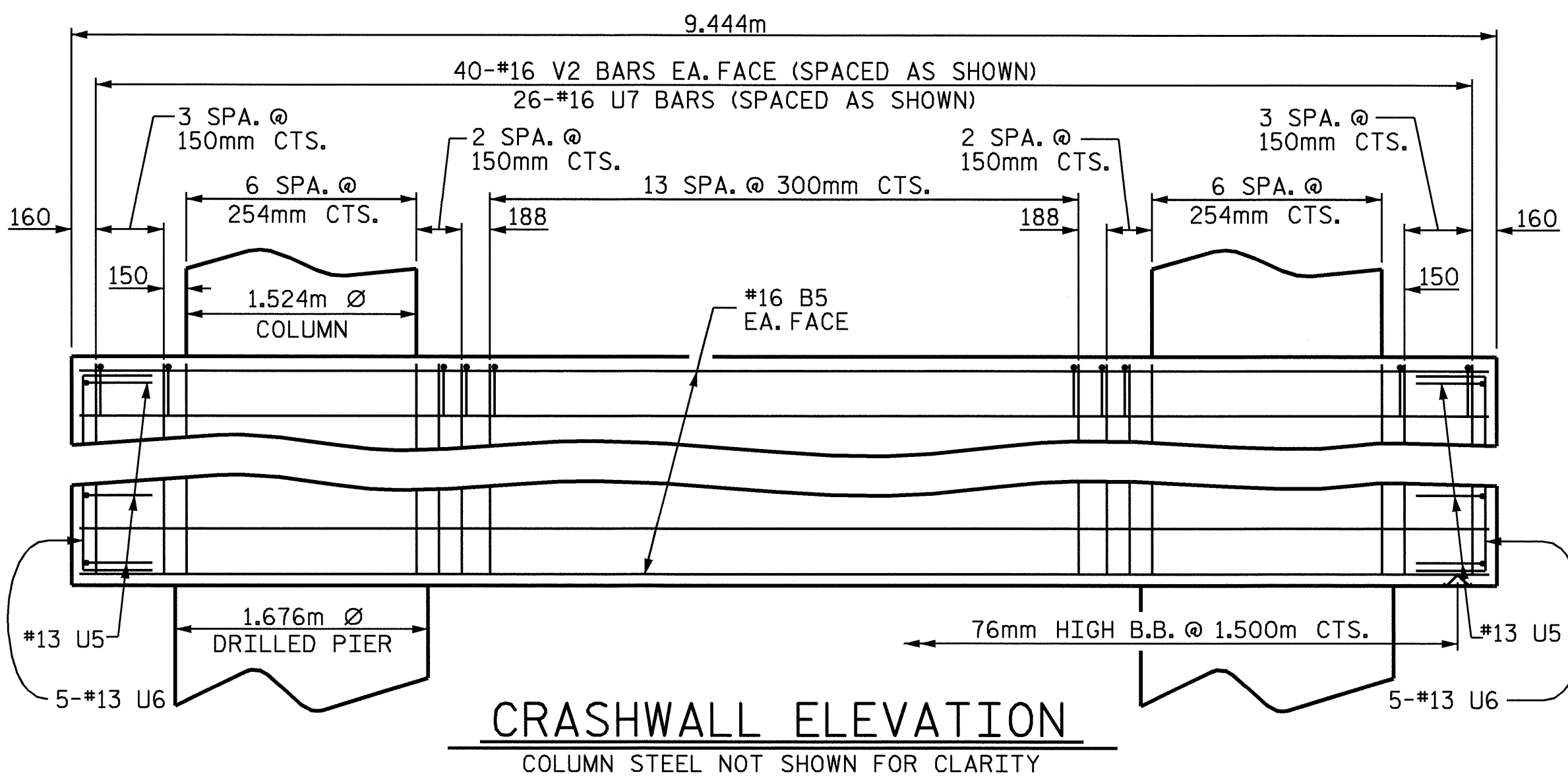
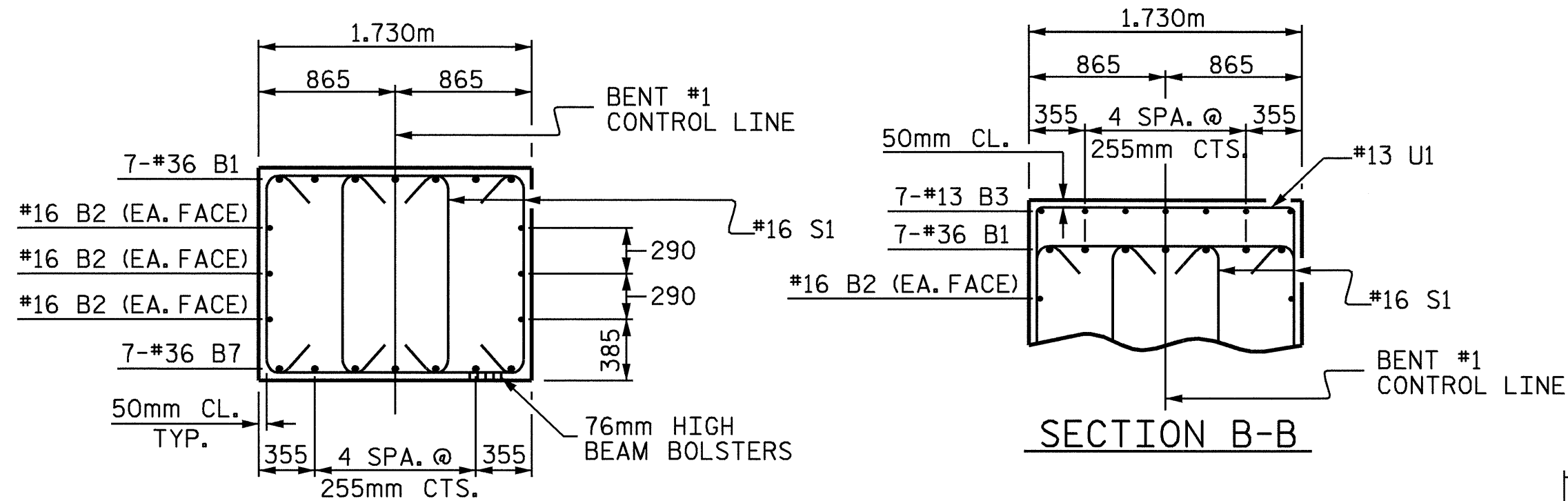


SECTION D-D



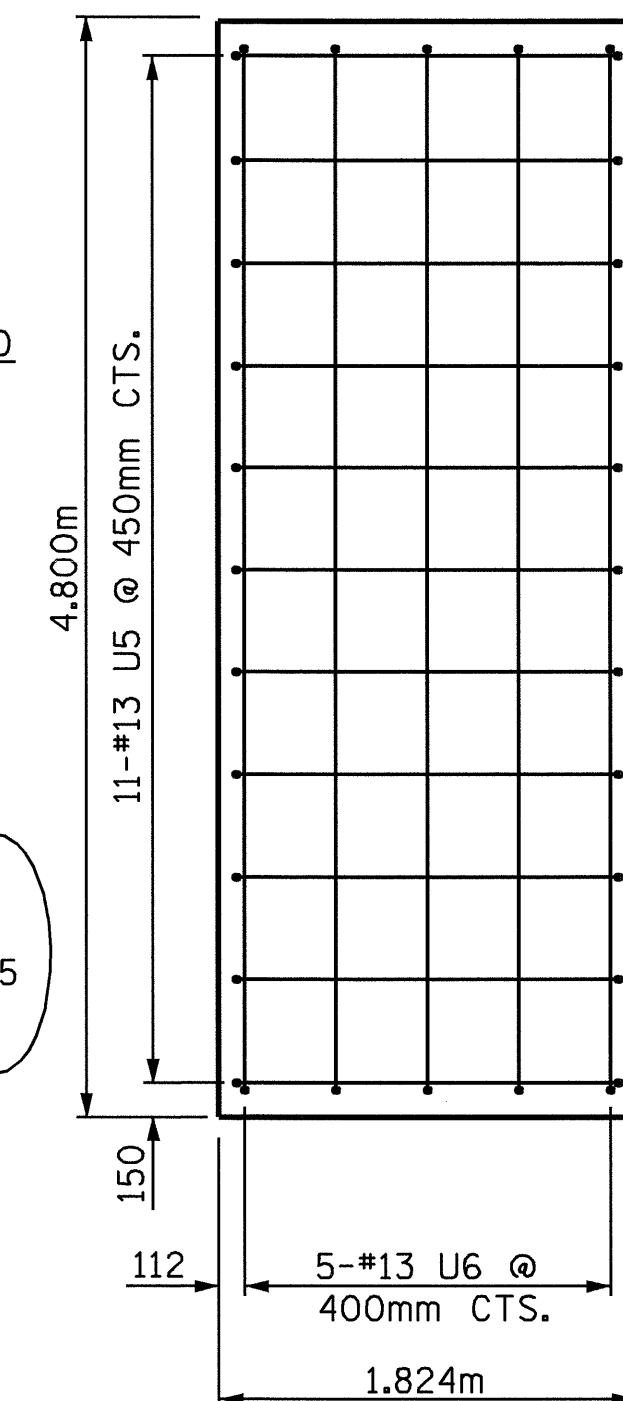
CRASHWALL ELEVATION

COLUMN STEEL NOT SHOWN FOR CLARITY

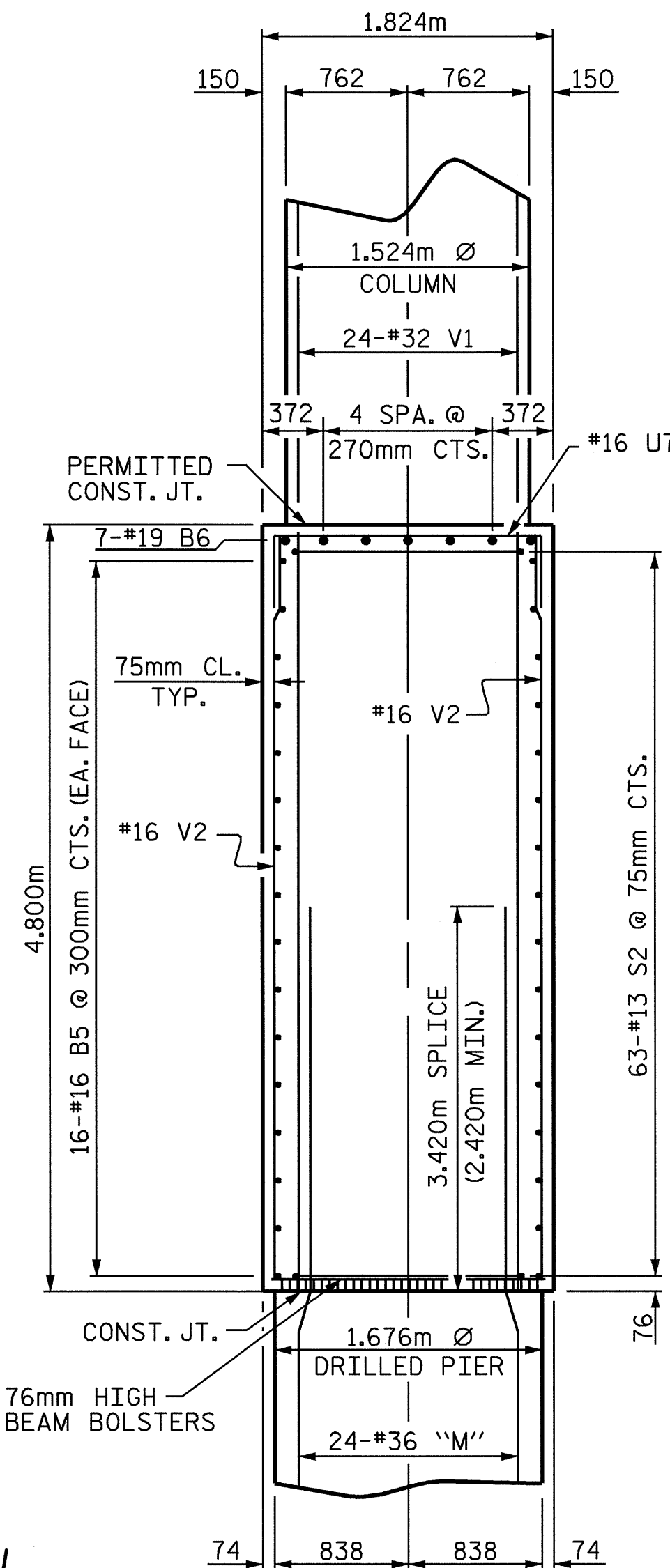


SECTION A-A

SECTION B-B

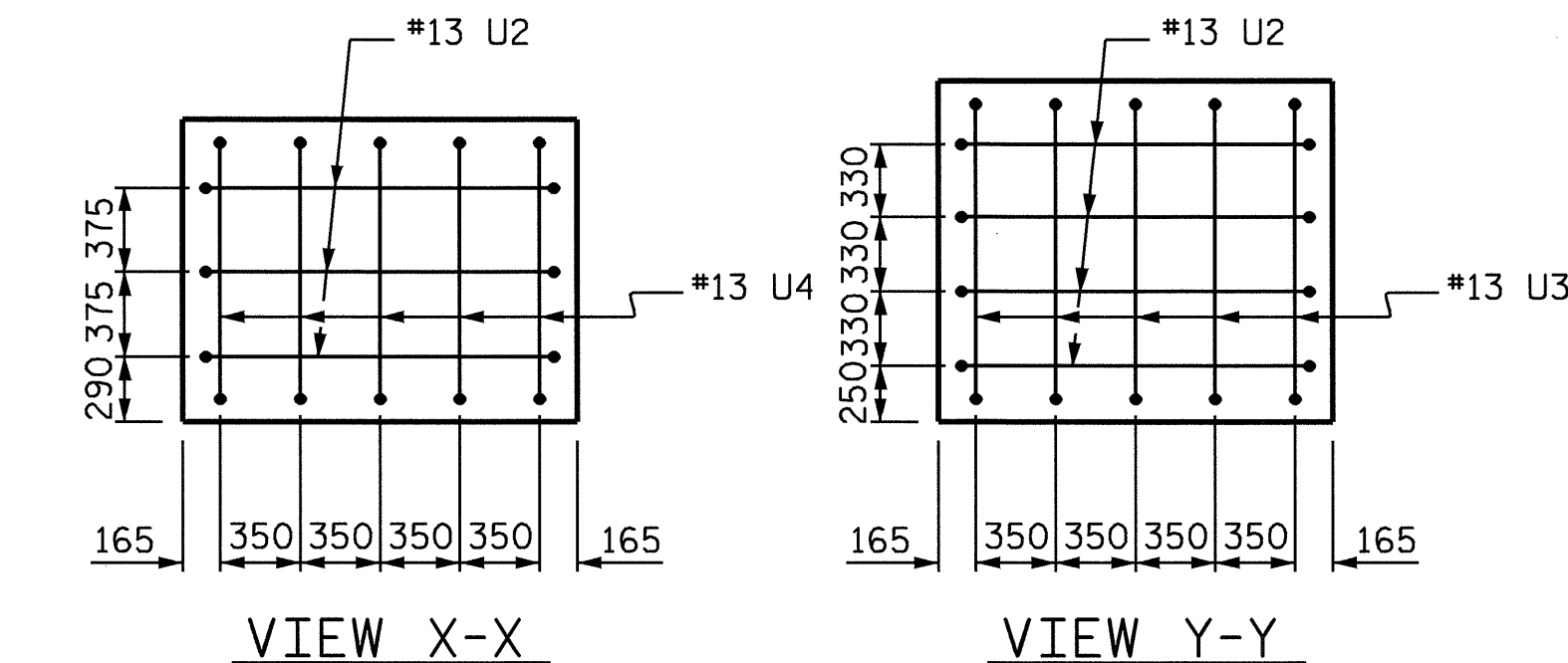


END OF CRASHWALL VIEW  
(TYPICAL EACH END)



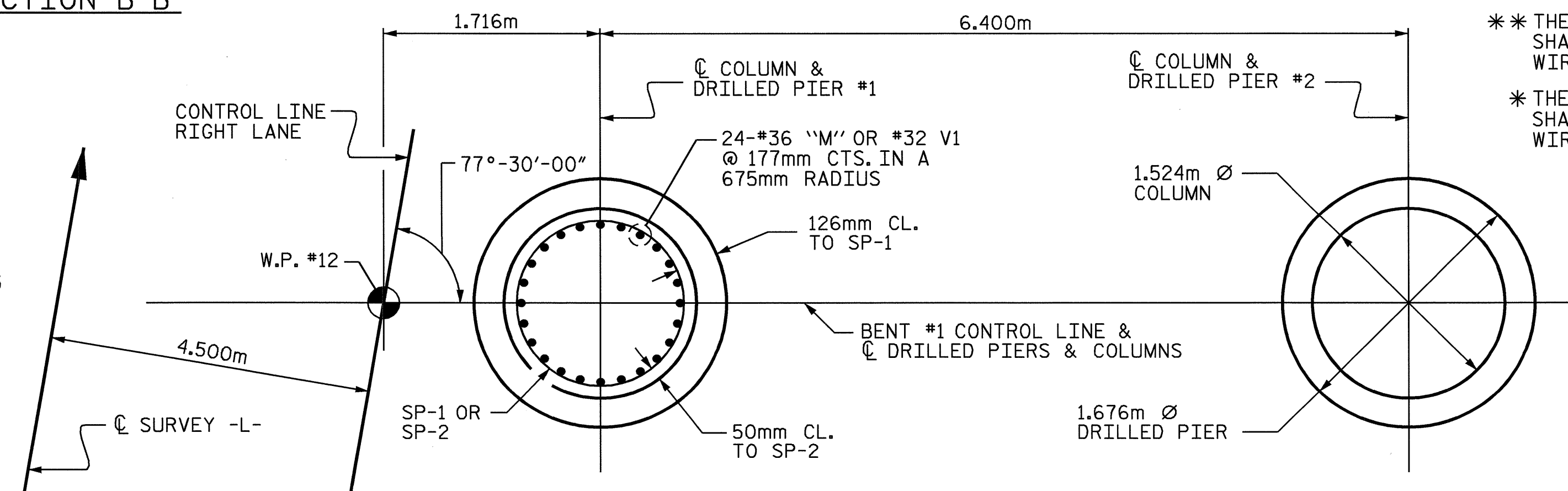
SECTION C-C

SPIRAL COLUMN STEEL NOT SHOWN FOR CLARITY



VIEW X-X

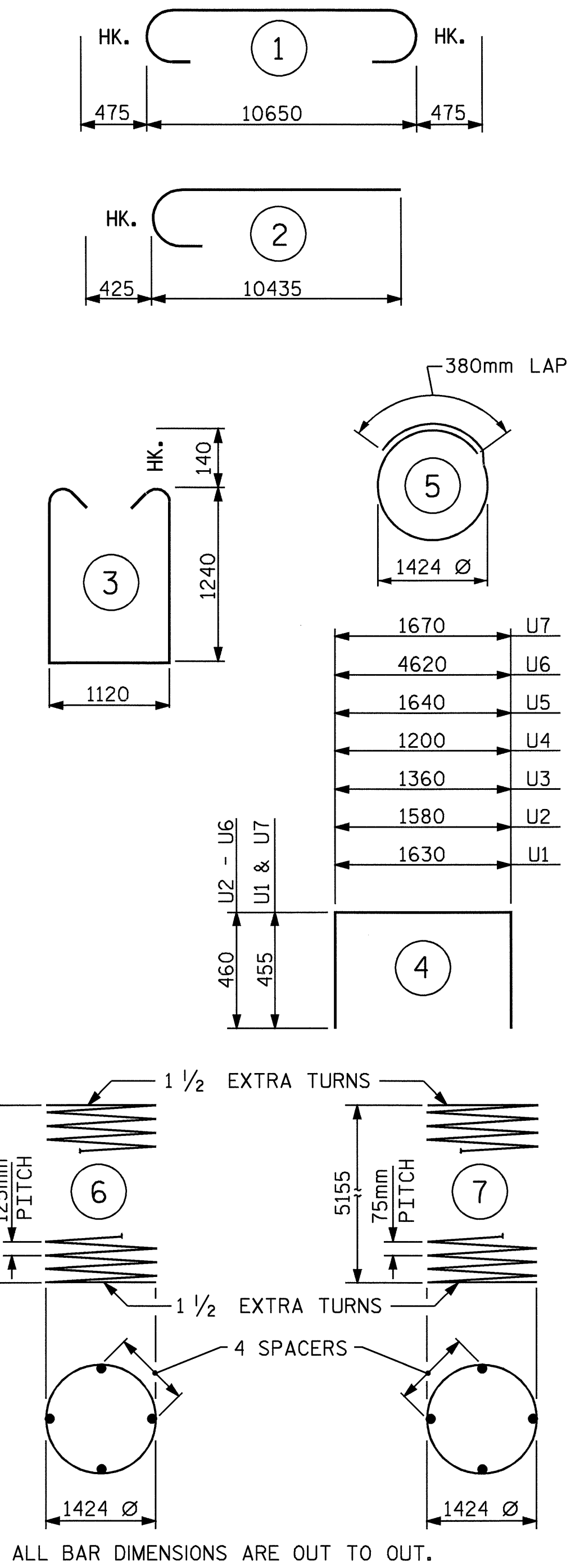
VIEW Y-Y



PLAN OF DRILLED PIERS & COLUMNS

CRASHWALL NOT SHOWN FOR CLARITY

BAR TYPES



\*\* THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.

BILL OF MATERIAL

BENT NO. 1

BAR	NO	SIZE	TYPE	LENGTH	WEIGHT
B1	7	36	1	11600	642
B2	6	16	STR	10700	100
B3	21	13	STR	1900	40
B4	7	13	STR	1400	10
B5	32	16	STR	9280	461
B6	7	19	STR	9280	145
B7	7	36	STR	10700	592
S1	68	16	3	3880	409
S2	126	13	5	4860	609
U1	49	13	4	2540	124
U2	7	13	4	2500	17
U3	5	13	4	2280	11
U4	5	13	4	2120	11
U5	22	13	4	2560	56
U6	10	13	4	5540	55
U7	26	16	4	2580	104
V1	48	32	2	10860	3338
V2	80	16	STR	4640	576
M1	48	36	STR	14580	5534
M2	48	36	STR	14900	5655
SP-1	2	*	6	933720	2898
SP-2	2	**	7	319220	635

REINFORCING STEEL kg. 18,489

SPIRAL COLUMN REINFORCING STEEL kg. 3,533

CLASS A CONCRETE BREAKDOWN:

POUR #2 (CRASHWALL AND COLUMNS)	101.0m <sup>3</sup>
POUR #3 (CAP)	27.2m <sup>3</sup>
TOTAL CLASS A CONCRETE	128.2m <sup>3</sup>

DRILLED PIER QUANTITIES

POUR #1 (DRILLED PIER CONCRETE)	115.6m <sup>3</sup>
1676mm Ø DRILLED PIERS IN SOIL	41.900m
1676mm Ø DRILLED PIERS NOT IN SOIL	10.500m
CSL TUBES	323.5 METERS
CROSSHOLE SONIC LOGGING	1 EACH
SID INSPECTION	1 EACH
SPT TESTING	2 EACH

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE LONGITUDINAL REINFORCEMENT IN THE DRILLED PIERS IS DETAILED WITH ONE METER OF EXTRA LENGTH.

PROJECT NO. R-2911A  
IREDELL COUNTY  
 STATION: 39+62.402 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 BENT #1  
 (RIGHT LANE)



DRAWN BY: D. HODGE DATE: 2/2004  
 CHECKED BY: M.G. CHECK DATE: 3/2004

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

STR #2