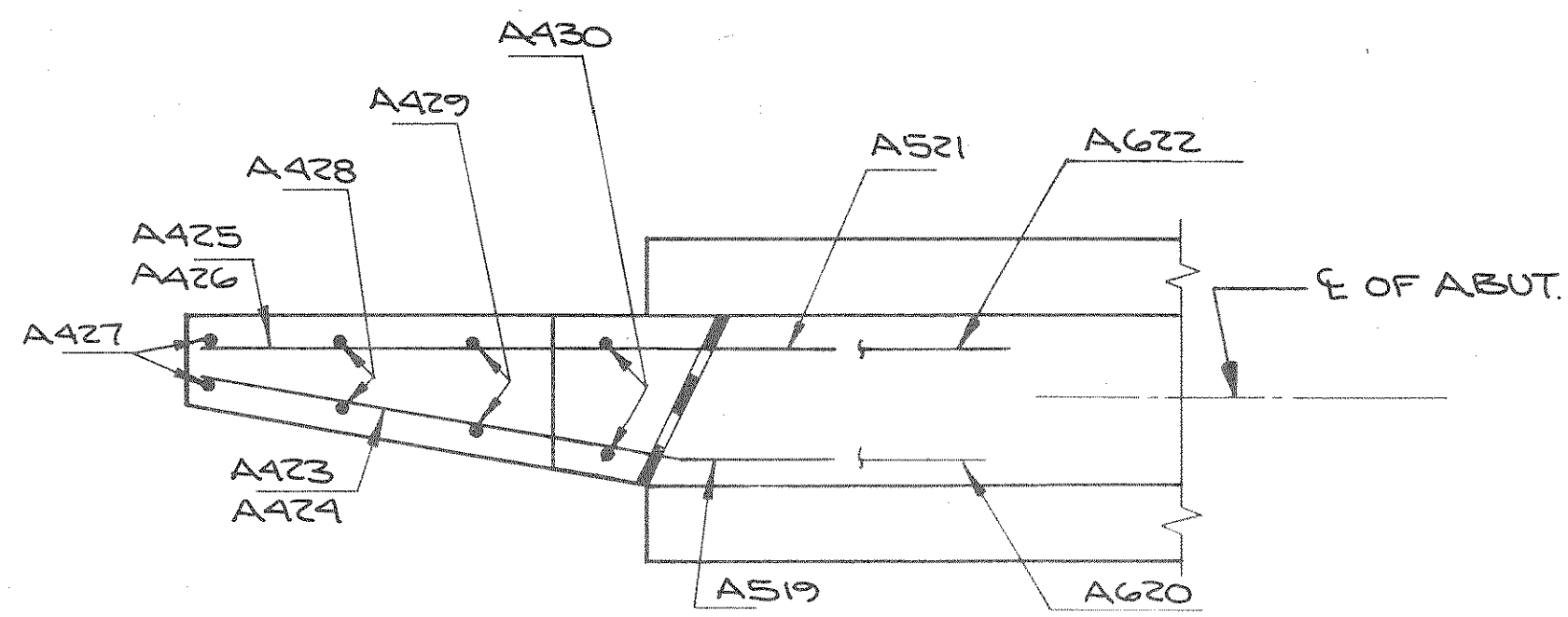


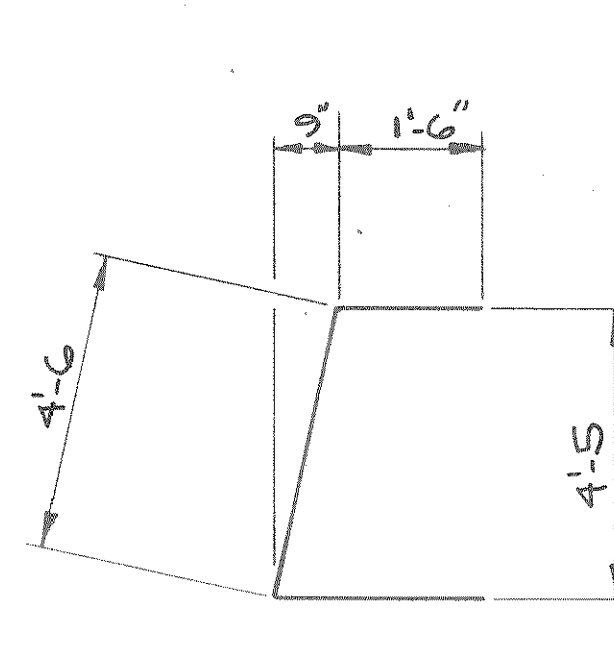
**BILL OF BARS**

BOTH ABUTMENTS ARE INCLUDED IN THIS BILL.  
DIMENSIONS IN THE BENDING DETAILS ARE OUT TO OUT OF BAR.

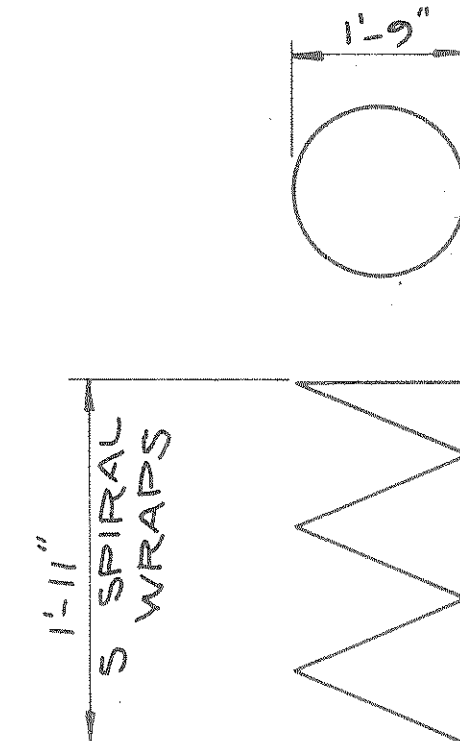
MARK	NO. REQ'D.	LENGTH	BENT	LOCATION	TOTAL WEIGHT = 2860 LBS.
A401	144	8-1	X	BODY - STIRRUPS	VERT.
A602	18	32-0	X	" - FF, BOTTOM, 1/2 TOP	HORIZ.
A503	10	30-8		" - BF.	"
A404	20	2-3		" @ PILES - 2 PER PILE	VERT.
A405	10	28-0	X	" @ " - 1 " " " 5 SPIRAL WRAP	"
A406	62	2-0		" - TOP - DOWELS	VERT.
A507	10	7-9	X	WINGS 1 & 4 - FF - BOTTOM	HORIZ.
A608	2	9-6	X	" " " " - " "	"
A509	10	6-10		" " " " BF - " "	"
AG10	2	8-7		" " " " - " "	"
A411	2	6-1		" " " " FF - TOP	"
A412	2	6-0	X	" " " " - " "	"
A413	2	5-3		" " " " BF - " "	"
A414	2	5-2	X	" " " " - " "	"
A415	4	5-6		" " " " FF & BF	VERT.
A416	4	6-0		" " " " " " "	"
A417	4	6-6		" " " " " " "	"
A418	4	6-10		" " " " " " "	"
AS19	10	6-10	X	WINGS 2 & 3 FF - BOTTOM	HORIZ.
AS21	10	6-10	X	" " " " - " "	"
AG22	2	8-7		" " " " - " "	"
A423	2	6-1		" " " " FF - TOP	"
A424	2	6-4	X	" " " " - " "	"
A425	2	5-2		" " " " BF - " "	"
A426	2	5-4	X	" " " " - " "	"
A427	4	5-4		" " " " FF & BF	VERT.
A428	4	6-0		" " " " " " "	"
A429	4	6-6		" " " " " " "	"
A430	4	7-0		" " " " " " "	"



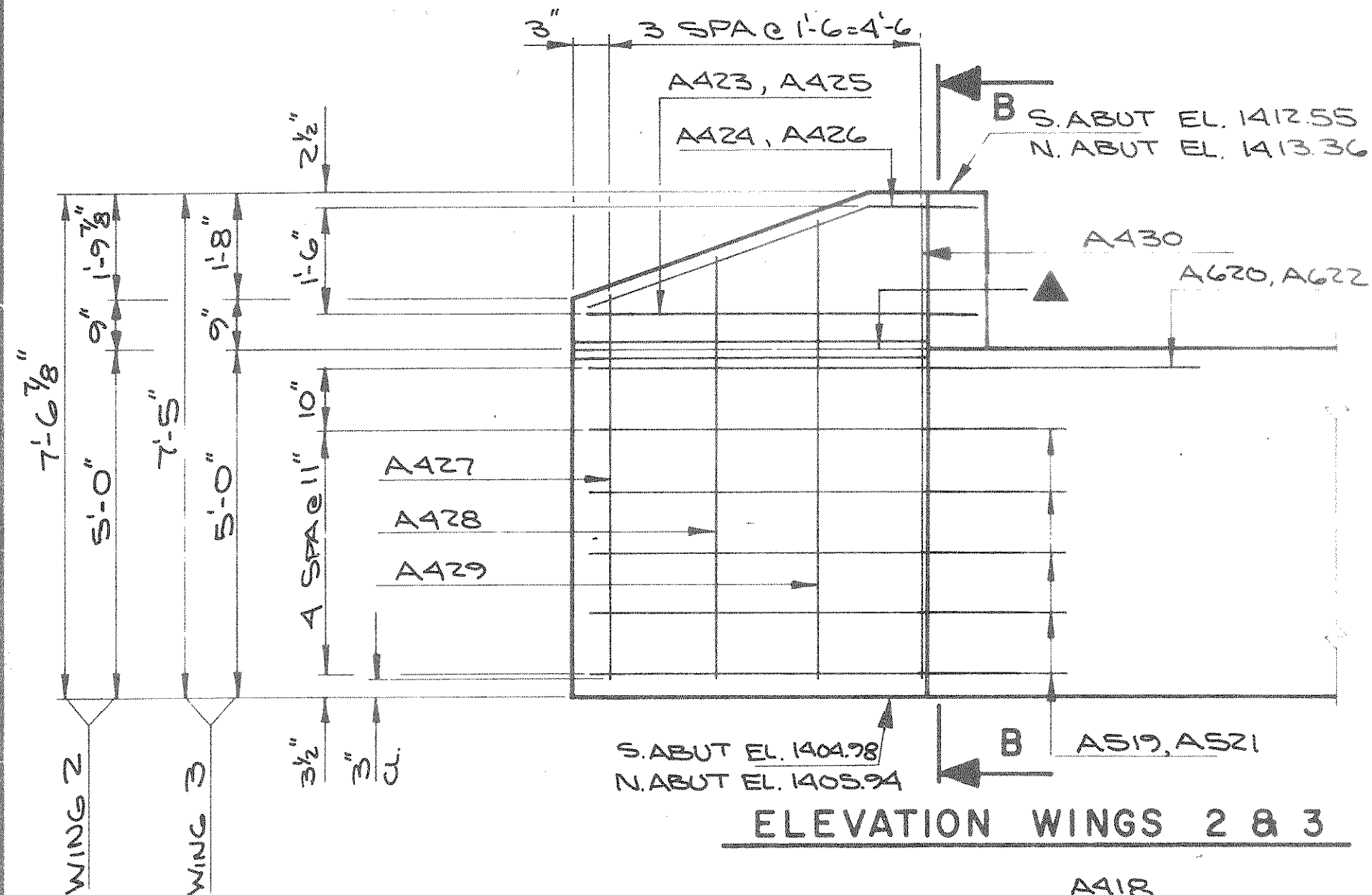
PLAN WINGS 2 & 3



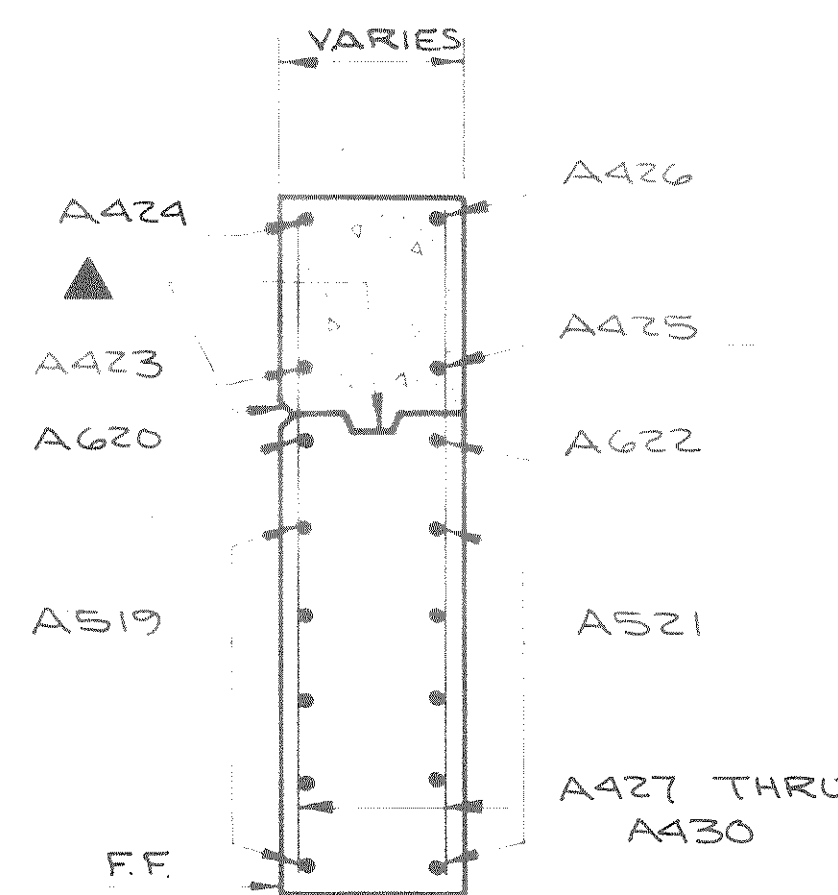
A401



A406

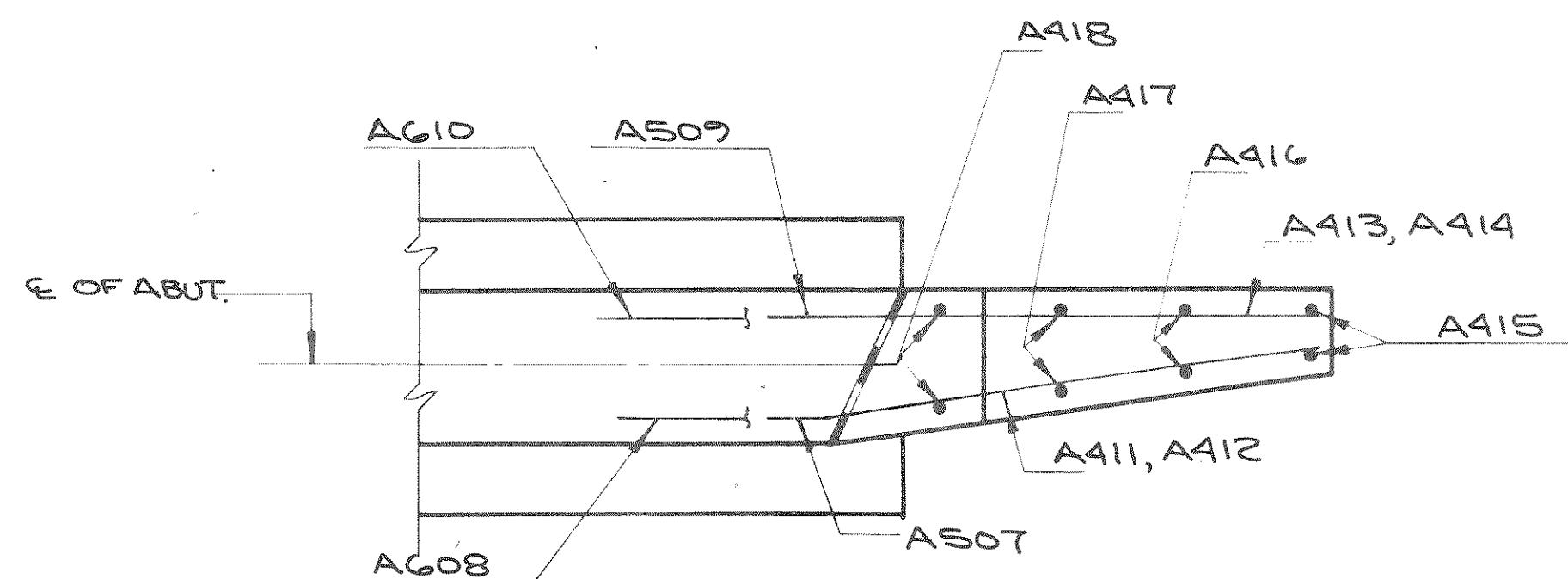


ELEVATION WINGS 2 & 3

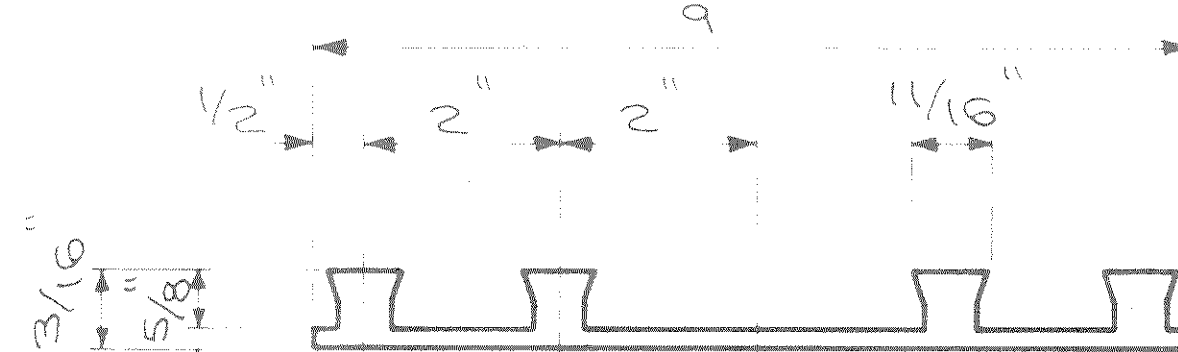


SECTION B

MARK	A	ANGLE B
AS07	1-6	7°00'
AG08	3-3	7°00'
A412	1-9	22°00'
A414	0-10	22°00'
AS19	1-6	7°00'
AG20	3-3	7°00'
A424	1-9	22°00'
A426	0-10	22°00'

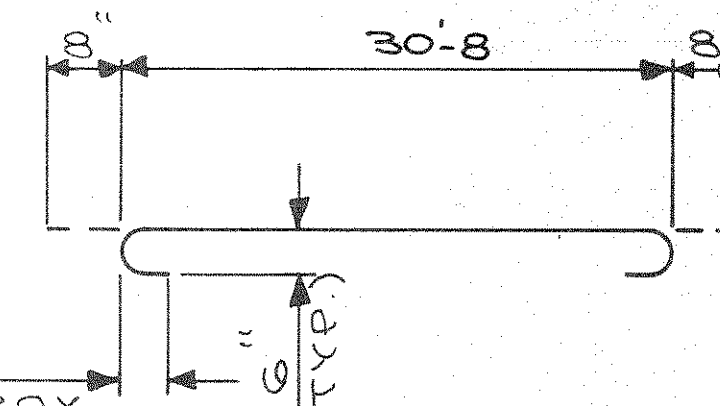


PLAN WINGS 1 & 4

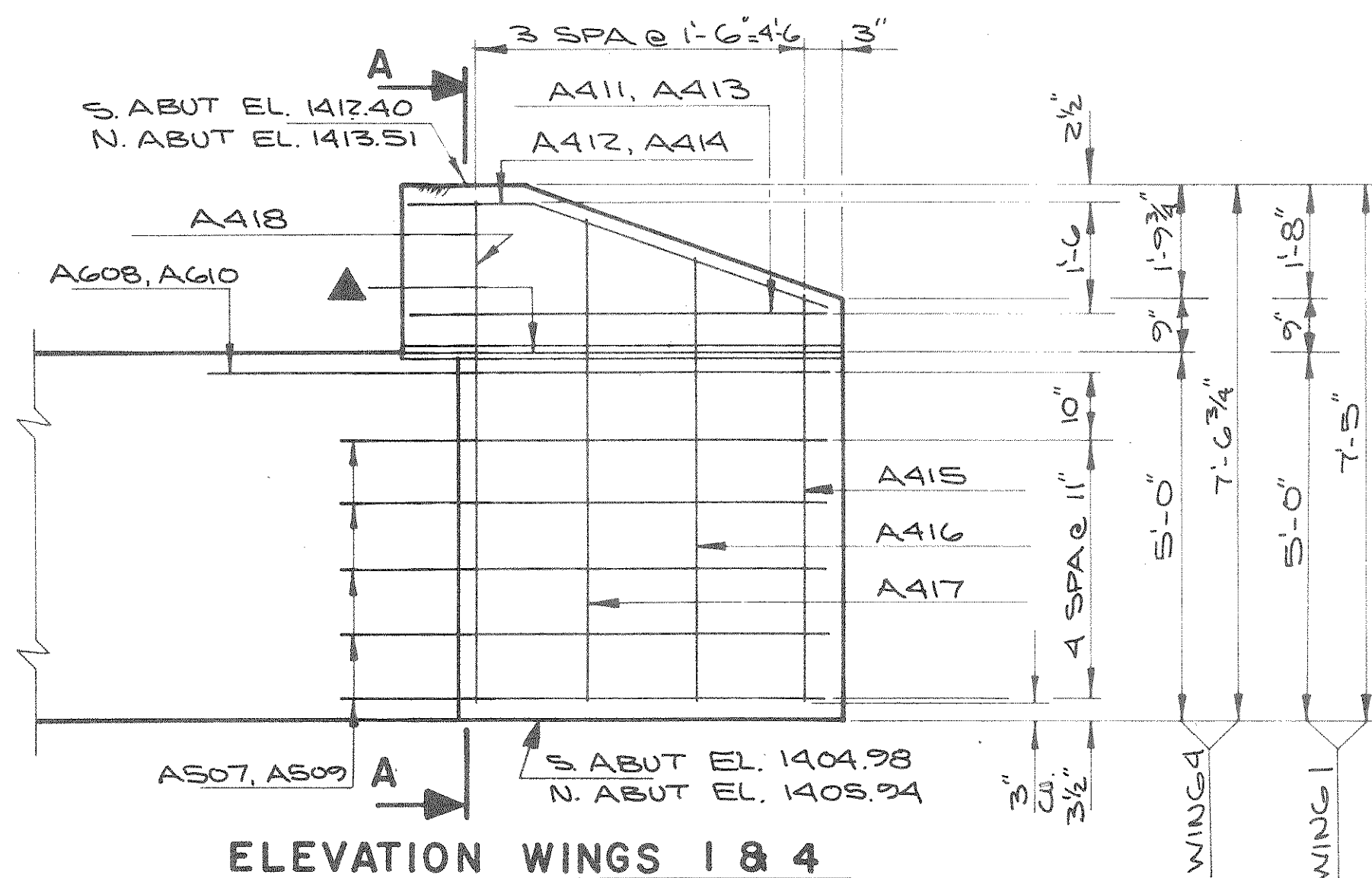


POLYVINYL CHLORIDE WATERSTOP

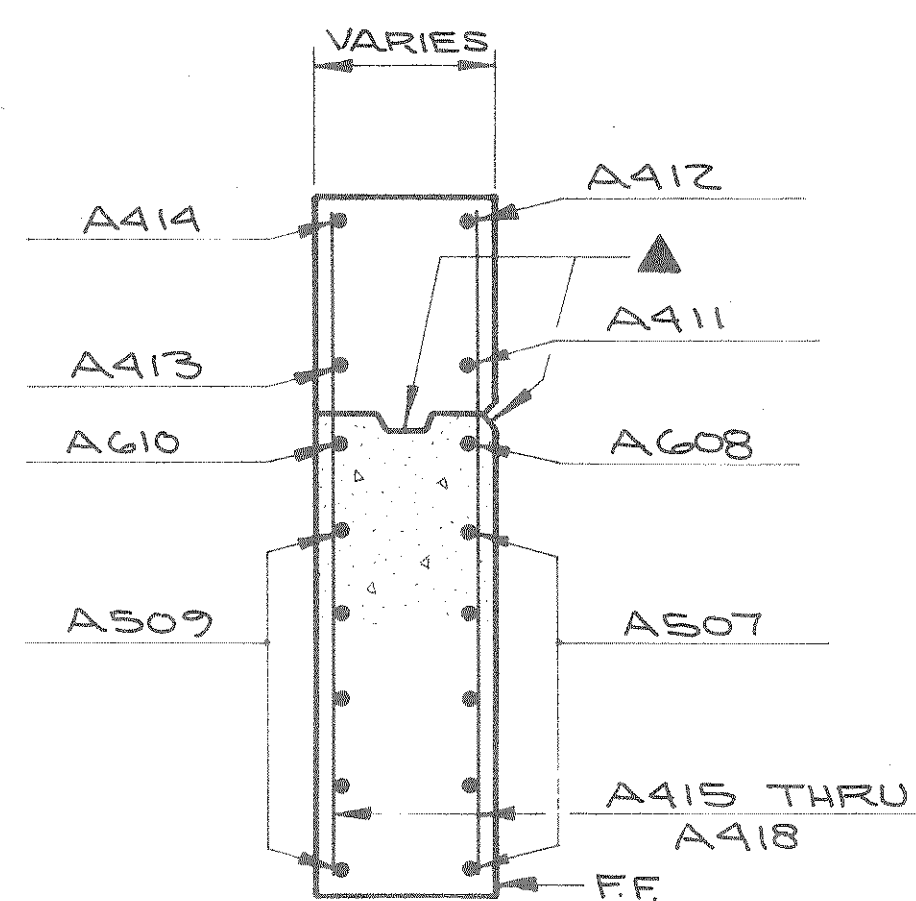
OPTIONAL KEYED CONSTRUCTION JOINT AND 3/4" V GROOVE. JOINT FORMED BY A SURFACED, BEVELED 2"x6" V GROOVE SHALL BE ON FRONT FACE OF WING WALL ONLY. OMIT "V" GROOVE IF JOINT IS NOT USED.



A602

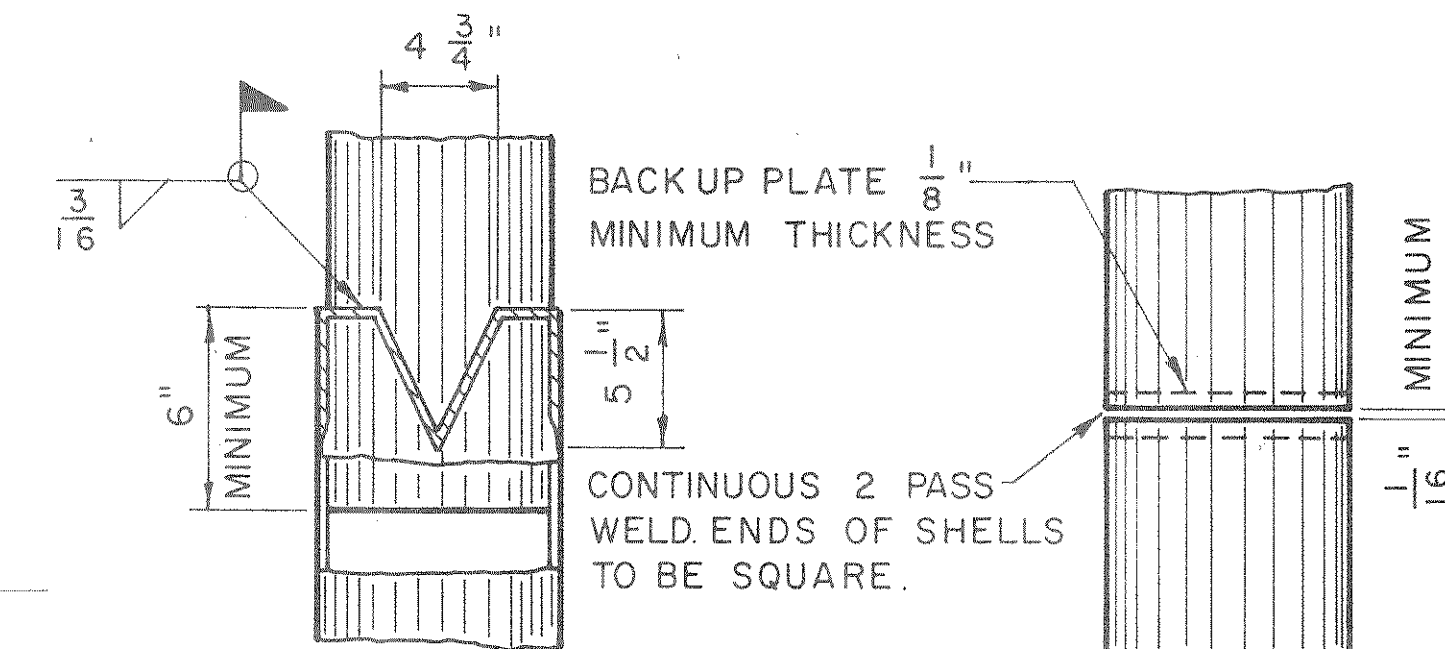


ELEVATION WINGS 1 & 4



SECTION A

NOTE: IF PILE SPLICES ARE REQUIRED, THE SPLICES SHALL BE MADE BY A CERTIFIED WELDER. PILE SHELL MATERIAL SHALL BE A.S.T.M. DESIGNATION A-252, GRADE 2 OR EQUAL.



FLUTED PILE

PIPE PILE

PILE SPLICE DETAIL

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-35-92</b>			
Const. Spc.	WIS. 1981	Drawn By	LEN
		Plans Checked	JRL
<b>WING DETAILS</b>			SHEET 6 OF 10
			X78810