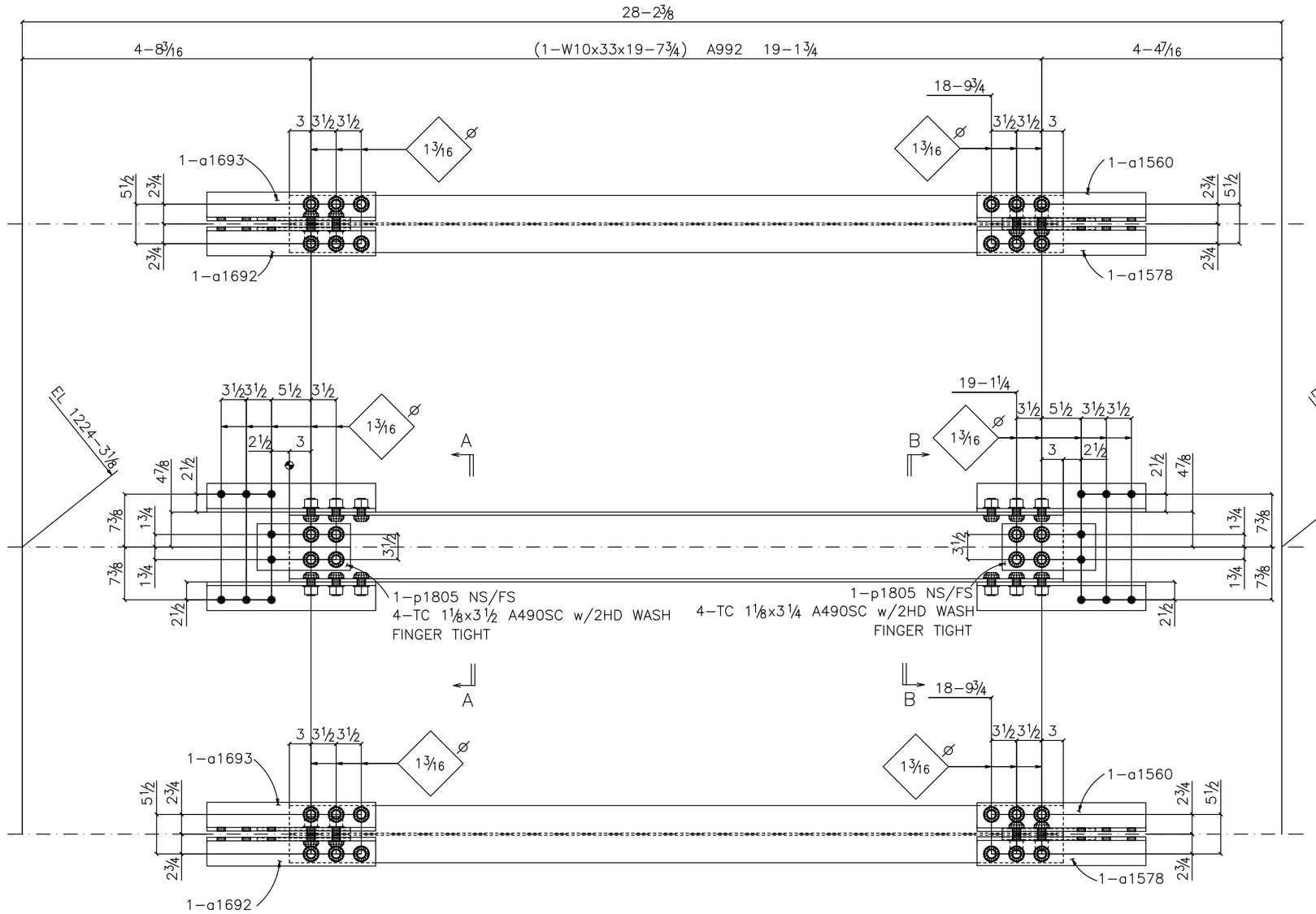
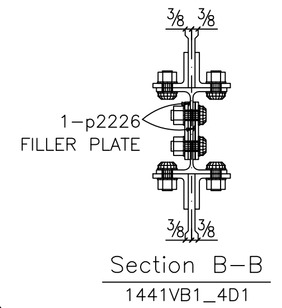
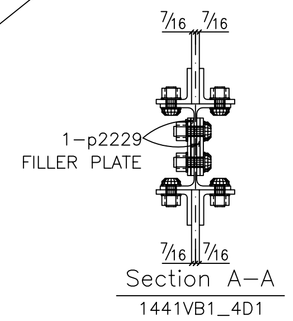




Section B–B
1441VB1_4D1



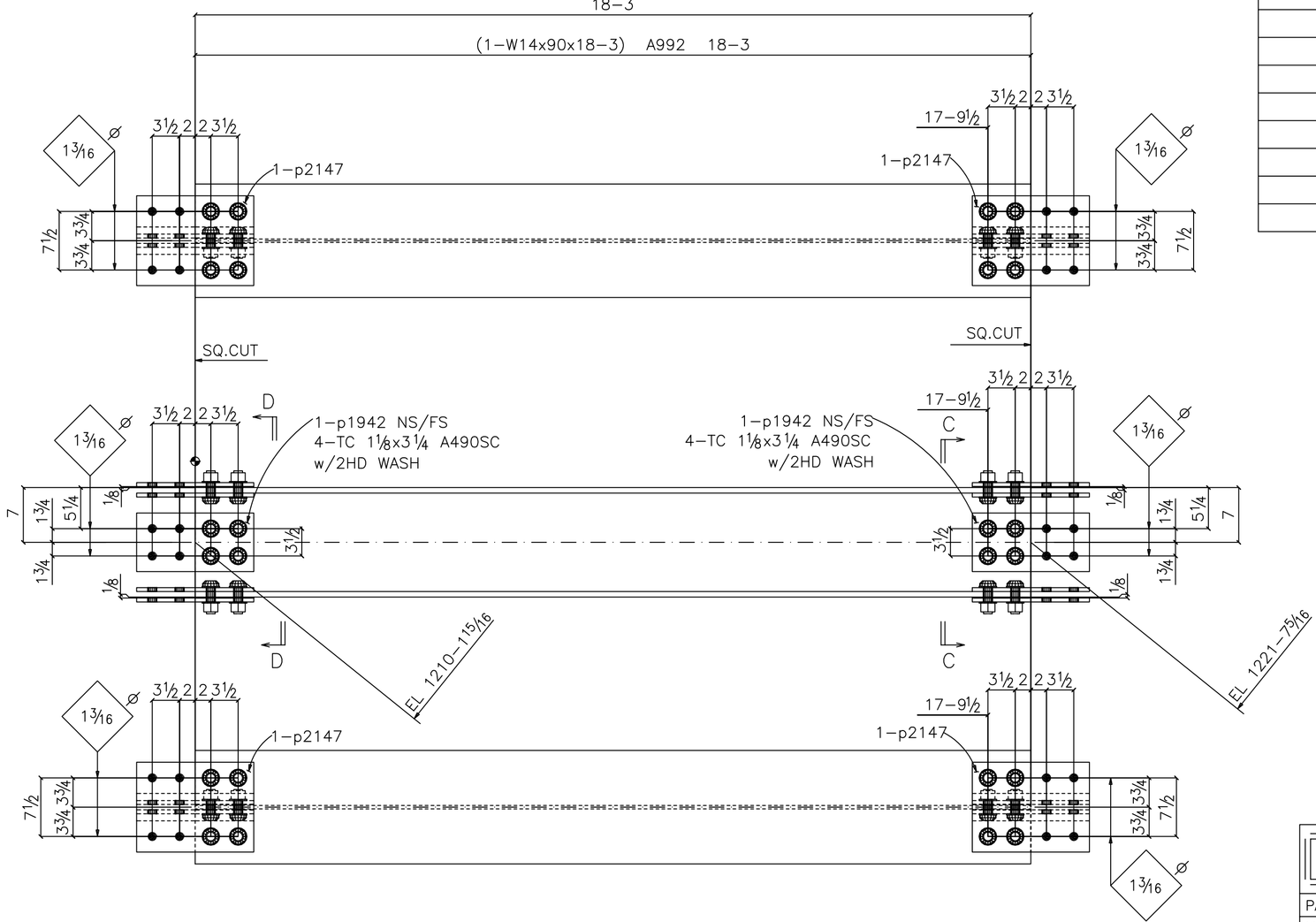
Section A–A
1441VB1_4D1

ONE VERTICAL BRACE 1441VB1_4D1

SHOP BOLTS (Unless Noted):
24–TC 1⅛x2½ A490SC w/2HD WASH
FINGER TIGHT

W	9¾x5⁄16
F	7 15⁄16x7⁄16
K	1⅛x13⁄16

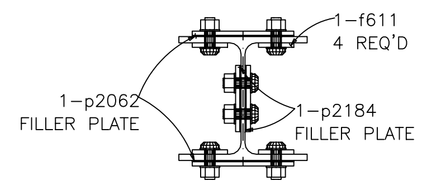
ALL BOLTS IN THIS BRACE WILL NEED TO FINGER TIGHT IN SHOP AND FULL TIGHTENED IN FIELD



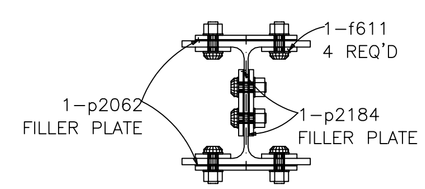
ONE VERTICAL BRACE 1441VB2_4D1

SHOP BOLTS (Unless Noted):
16–TC 1⅛x3½ A490SC w/2HD WASH

W	14x7⁄16
F	14½x11⁄16
K	2x1½



Section D–D
1441VB2_4D1



Section C–C
1441VB2_4D1

BILL OF MATERIAL

Shipping Mark	No. Pcs.	Material	Length Ft.	Length In.	Mark	Stl.Gr.	Notes/ ABM Marks
1441VB1_4D1ONE		VERTICAL BRACE					
	1	W10x33	19	7¾	1441VB1_4D1	A992	348–16
	2	L4x4x ½	1	11½	a1560	A36	
	2	L4x4x ½	1	11½	a1578	A36	
	2	L4x4x ½	1	11½	a1692	A36	
	2	L4x4x ½	1	11½	a1693	A36	
	4	PL⅜x6½	1	1	p1805	A36	
	2	PL⅜x6½	0	8½	p2229	A36	
	2	PL¼x6½	0	8½	p2226	A36	
	4	TC 1⅛ Dia A490SC	0	3½			2HD WASH
	4	TC 1⅛ Dia A490SC	0	3¼			2HD WASH
	24	TC 1⅛ Dia A490SC	0	2½			2HD WASH
		FIELD BOLTS					
	14	TC 1⅛ Dia A490SC	0	3½			2HD WASH
	2	TC 1⅛ Dia A490SC	0	3¼			2HD WASH
1441VB2_4D1ONE		VERTICAL BRACE					
	1	W14x90	18	3	1441VB2_4D1	A992	S2E 348–5
	4	PL½x11½	1	3	p2147	A572–50	
	4	PL½x7½	1	3	p1942	A572–50	
	8	FL½x4	1	3	f611	A572–50	
	4	PL⅛x7½	0	11½	p2062	A572–50	
	4	PL⅛x7½	0	7½	p2184	A572–50	
	16	TC 1⅛ Dia A490SC	0	3½			2HD WASH
	8	TC 1⅛ Dia A490SC	0	3¼			2HD WASH
		FIELD BOLTS					
	16	TC 1⅛ Dia A490SC	0	3½			2HD WASH
	8	TC 1⅛ Dia A490SC	0	3¼			2HD WASH

FOR FABRICATION

PAINT: NO PAINT

MATERIAL | DOMESTIC ☒ | NON–DOMESTIC ☐

HOLES: 15⁄16 (U.N.O)

ELECTRODES E70XX (LH FOR GR. 50)

NO	DATE	BY	DESCRIPTION
			REVISIONS
0	10–14–09	VK	VERTICAL BRACE DETAILS
A	07–14	VK	VERTICAL BRACE DETAILS

ACTIVE MEMBER

PHASE/SUFFIX 5400–30
REVISION 0

DRAFTER: VK
DATE: 07–13
CHECKED: TM
DATE: 07–13

CUSTOMER
THE WHITING TURNER CONTRACTING COMPANY

STRUCTURE
MILLENNIUM SCIENCE COMPLEX

CONTRACT NO. 82681–050
DWG NO. 1441_4D1