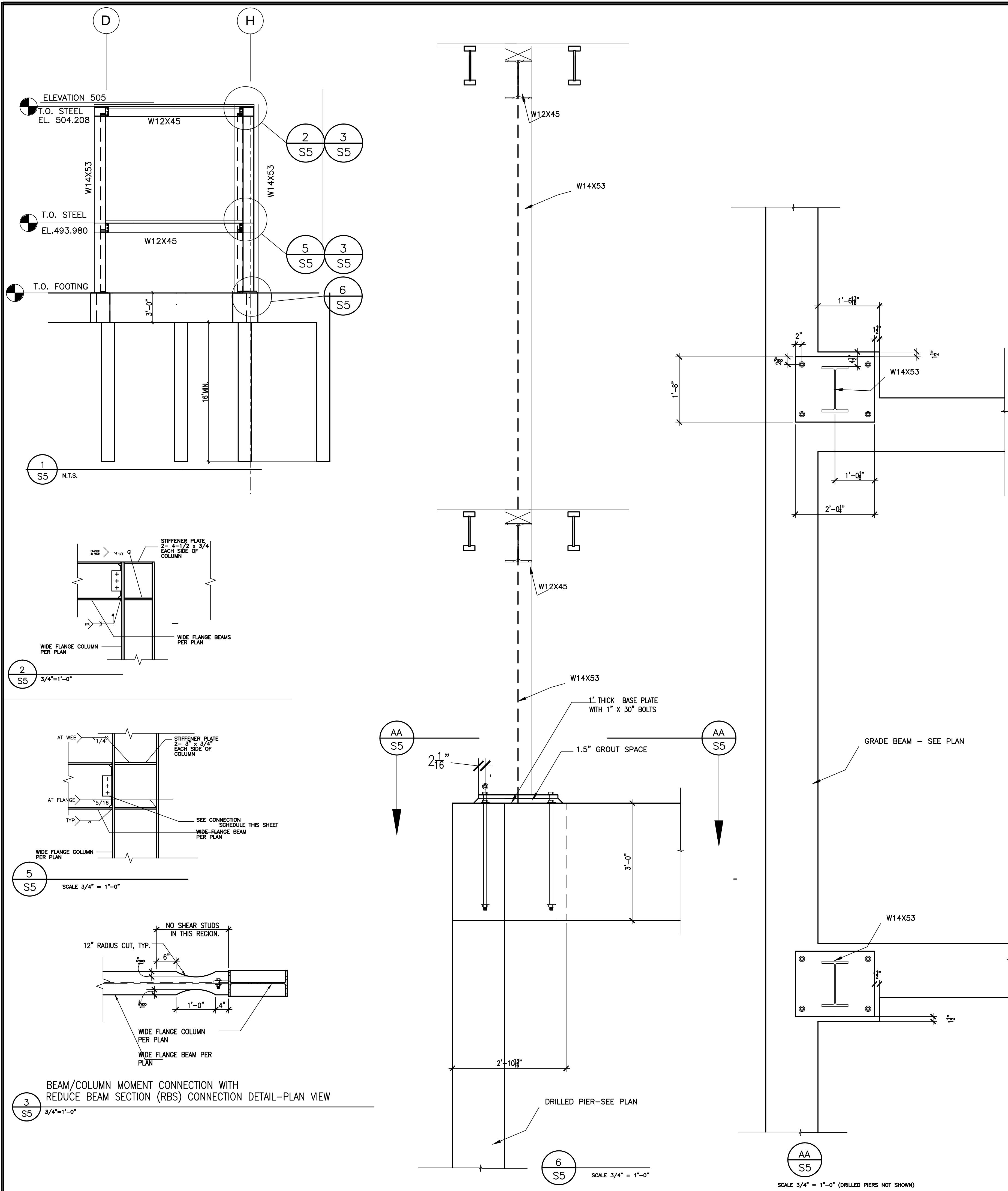


## DETAILS AT HARDY FRAMES



Model Number	Net Height (in)	Depth (in)	Hold Down Diameter <sup>1</sup> (in)	Screw Quantity			Screw Qty <sup>4</sup> Available at Edges (ea)
				Panel	Top <sup>2</sup> (ea)	Bottom <sup>3</sup> (ea)	
HFX-12x8 thru 24x8	92-1/4			12" Width	6	6	4
HFX-12x9 thru 24x9	104-1/4			15" Width	8	8	
HFX-12x10 thru 24x10	116-1/4	3-1/2	1-1/8	18" Width	10	10	5
HFX-12x11 thru 24x11	128-1/4			21" Width	12	12	
HFX-12x12 thru 24x12	140-1/4			24" Width	14	14	
HFX-12x13 thru 24x13	152-1/4						6

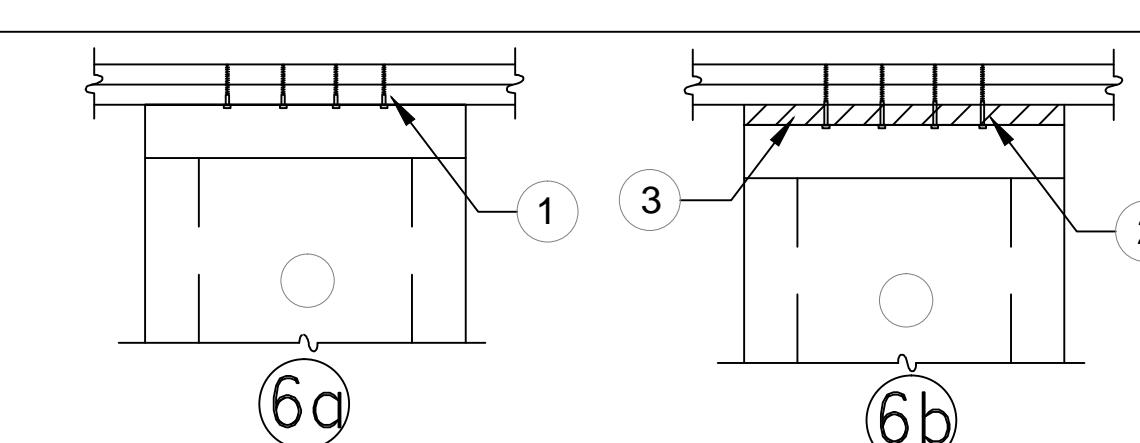
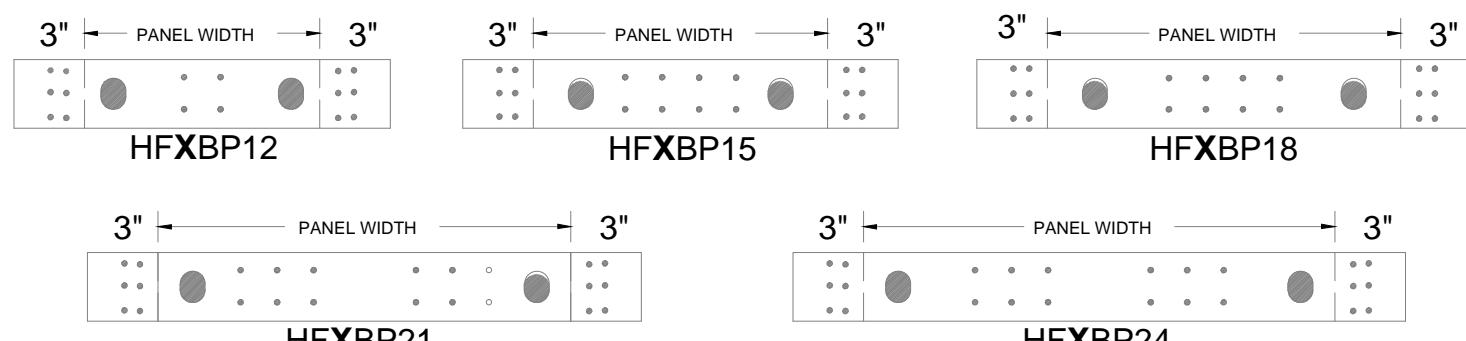
NOTE: HARDY FRAME<sup>®</sup> "STK" WASHERS ARE REQUIRED IN THE TOP OF PANELS WHEN CONNECTING TO A HOLD DOWN ROD FROM ABOVE. HARDY FRAME<sup>®</sup> "STK" PANELS INCLUDE STK WASHERS PRE-WELDED IN THE TOP CHANNEL.

- 1) Hold down bolts specified as Standard Grade (STD) must comply with ASTM F1554 Grade 36 (or equal). Hold down bolts specified as High Strength (HS) must comply with ASTM A 193 Grade B7 (or equal). HD bolts (both grades) connect to the base of the Panel above with one Hardened Round, two Flat or two SAE Washers and a Grade 8 Hex Nut (or equal). HD bolts (both grades) connect to the top channel of the Panel below with a *Hardy Frame*<sup>®</sup> Stacking (STK) Washer (may be pre-welded in a *Hardy Frame*<sup>®</sup> "STK" Panel), one Hardened Round, two Flat or two SAE Washers and a Grade 8 Hex Nut (or equal).
- 2) 1/4" diameter USP-WS Series screws (or equal). Length is 3" (minimum) when attaching directly to the collector and 4-1/2" (minimum) when installing a 2x filler above the Panel.
- 3) 1/4" diameter USP-WS Series screws (or equal). Length is 4-1/2" (minimum) through base of Panel and 3" (minimum) at *Hardy Frame*<sup>®</sup> Bearing Plate (HFXBP).
- 4) 1/4" diameter screws are required at the edges when installing a 4x filler above or when specified by the Design Professional.

### INSTALLATION ON FLOOR SYSTEMS WITH HARDY FRAME<sup>®</sup> BEARING PLATE (HFXBP)

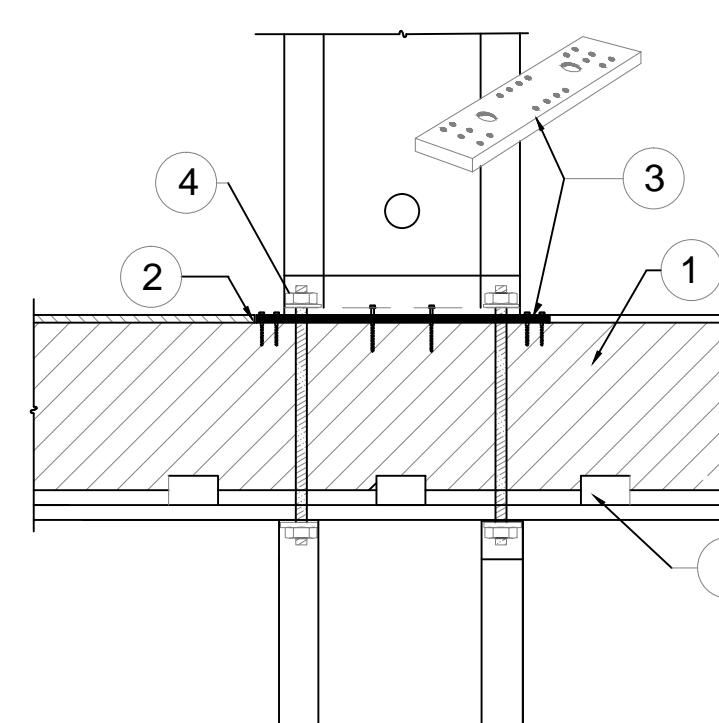
- A) Install a solid 4x (min) rim in floor system below Panel. Table values assume Engineered Wood Product (EWP).
- B) Notch floor sheathing and screw ends of HFXBP to rim with 1/4x3" (min) USP "WS" Series Screws (or equal).
- C) Install Panel on HFXBP, connect with threaded rod grade specified on plans and secure base of Panel with Hardened Round Washer and Grade 8 Nut (or equal). Nuts to be snug tight.
- D) When stacking to a Panel below, "STK" Panels include "STK" Washer, Hardened Round Washer and a Grade 8 Nut in the top channel of the Panel below.
- E) When more than 12 screws are required for minimum bottom screw quantity, install 1/4x4-1/2" Screws through Panel base and HFXBP into rim.
- F) For standard wall heights, install a 2x filler above Panel (Dtl 2-HFX2). For larger fillers see Dtl 10-HFX2.

NOTE: Installations may vary with specific job conditions and/or specifications by the Design Professional.



1. 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES
2. 1/4" x 4-1/2" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES
3. 2X WOOD FILLER.

### TOP PLATE CONNECTIONS



1. 4x (MIN) RIM. TABLES SPECIFY ENGINEERED WOOD PRODUCT.
2. FLOOR SHEATHING NOTCHED FOR BEARING PLATE.
3. HARDY FRAME<sup>®</sup> BEARING PLATE. 16 EA. 1/4" DIA. X 3" (MIN) USP MP4 F CONNECTORS OR EQUAL AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" X 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
4. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
5. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

POSTS BELOW (11)

## RESIDENCE FOR MR. CARL ADAMS

**OAKLEY & OAKLEY**  
ARCHITECTS & ENGINEERS  
7700 EDGEWATER DRIVE, STE. 615  
OAKLAND, CA 94621  
510.562.6028  
FAX: 510.562.6043

STRUCTURAL ENGINEERS:  
OAKLEY & OAKLEY  
7700 EDGEWATER DRIVE, SUITE 615  
OAKLAND, CA 94621  
Phone: 510-562-6028  
Fax: 510-562-6043

CALIFORNIA GREEN CONSULTANT:  
HASFRA BURT, AIA  
2511 CASTRO VALLEY BLVD., SUITE 109  
CASTRO VALLEY, CA 94546  
510-830-4794



No.	Description	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		
121		
122		
123		
124		
125		
126		
127		
128		
129		
130		
131		
132		
133		
134		
135		
136		
137		
138		
139		
140		
141		
142		
143		
144		
145		
146		
147		
148		
149		
150		
151		
152		
153		
154		
155		
156		
157		
158		
159		
160		
161		
162		
163		
164		
165		
166		
167		
168		
169		
170		
171		
172		
173		
174		
175		
176		
177		
178		
179		
180		
181		
182		
183		
184		
185		
186		
187		
188		
189		
190		
191		
192		
193		
194		
195		
196		
197		
198		
199		
200		
201		
202		
203		
204		
205		
206		
207		
208		
209		
210		
211		
212		
213</td		