

BRACE FRAME NCBF-B-1

REF: S.01

DATE	REVISION	NO
7-16-13	rev. per appv'l	С
7-11-13	rev. per appv'l	В
7-9-13	REV. PER NEW DESIGN	Α

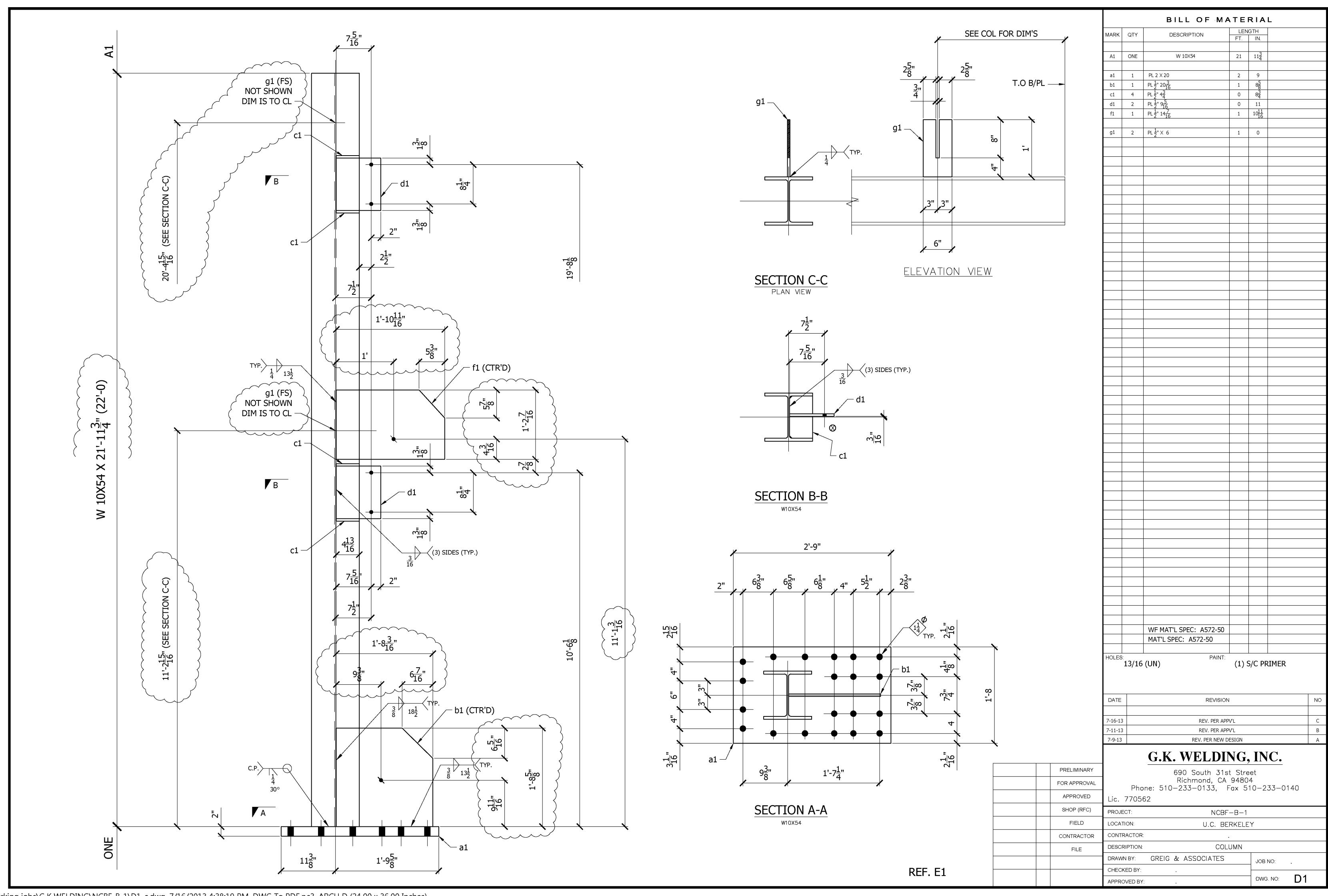
G.K. WELDING, INC.

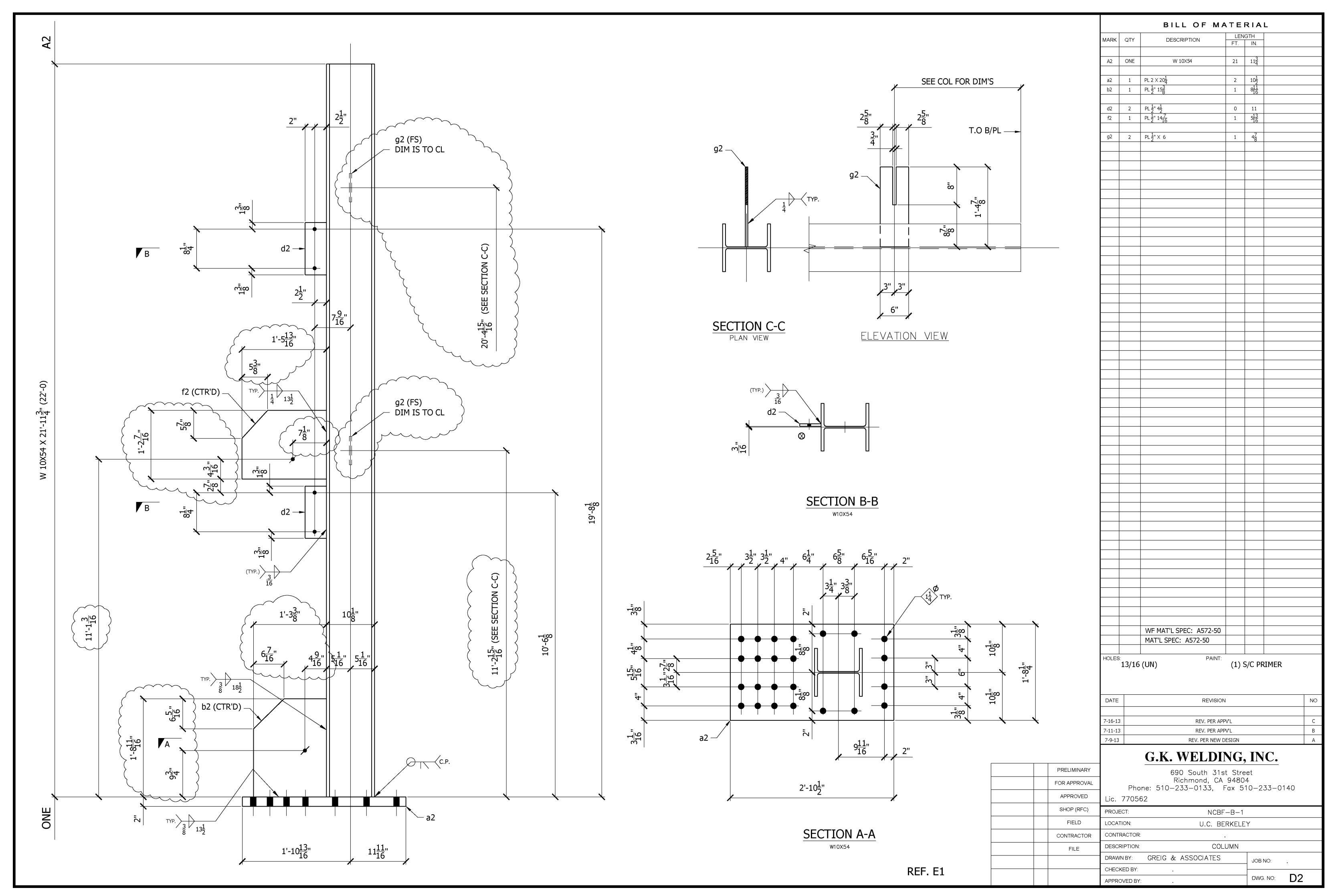
690 South 31st Street Richmond, CA 94804 Phone: 510-233-0133, Fax 510-233-0140

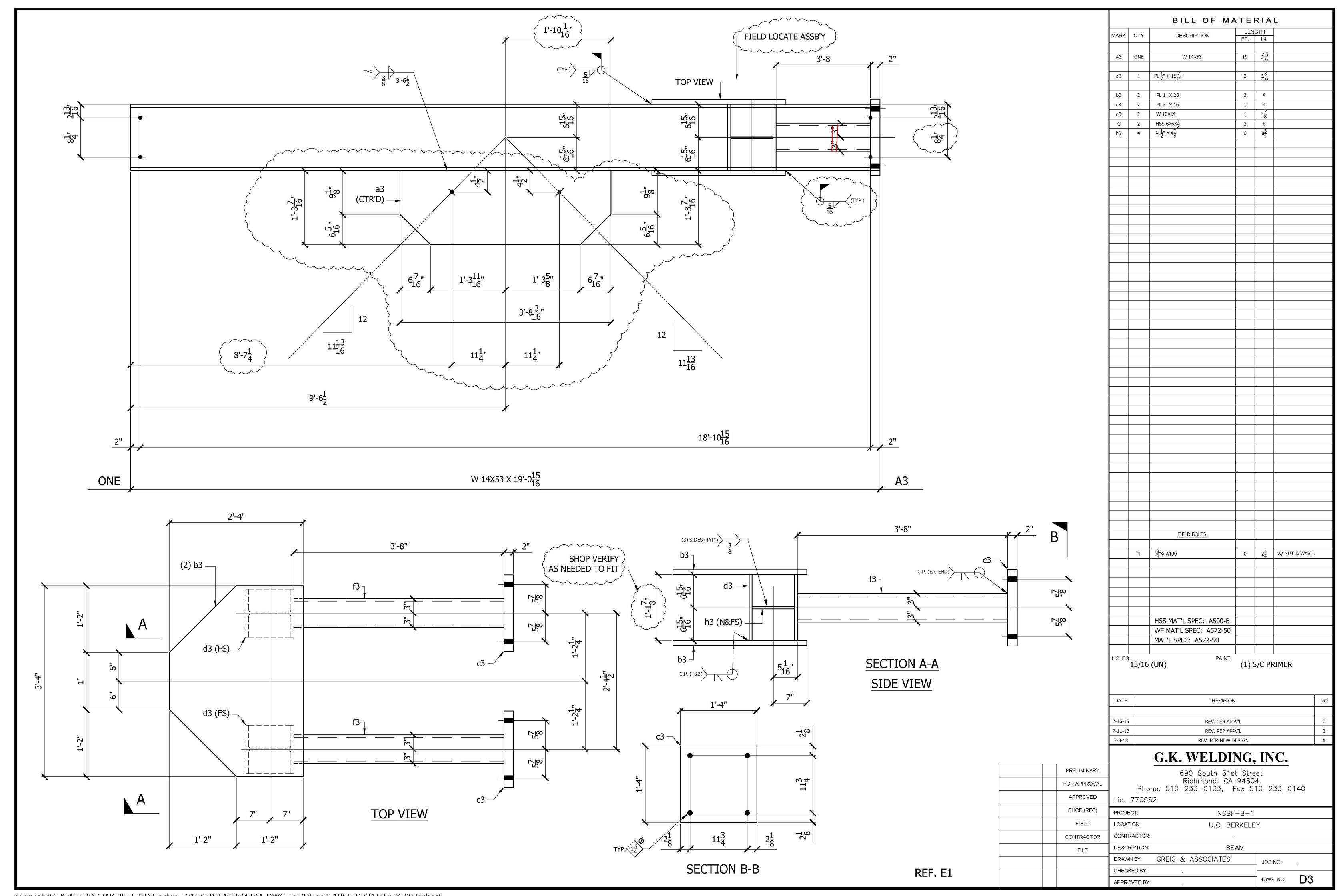
		FIIOHE. 310-233-0133, 10x 310-233-0140
	APPROVED	Lic. 770562
	SHOP (RFC)	PROJECT: NCBF-B-1
	FIELD	LOCATION: UNIVERSITY OF CALIFORNIA, BERKELEY
	CONTRACTOR	CONTRACTOR: .
	FILE	DESCRIPTION: BRACE FRAME NCBF-B-1
		DRAWN BY: GREIG & ASSOCIATES JOB NO: .
		CHECKED BY:
		APPROVED BY: DWG. NO: E1

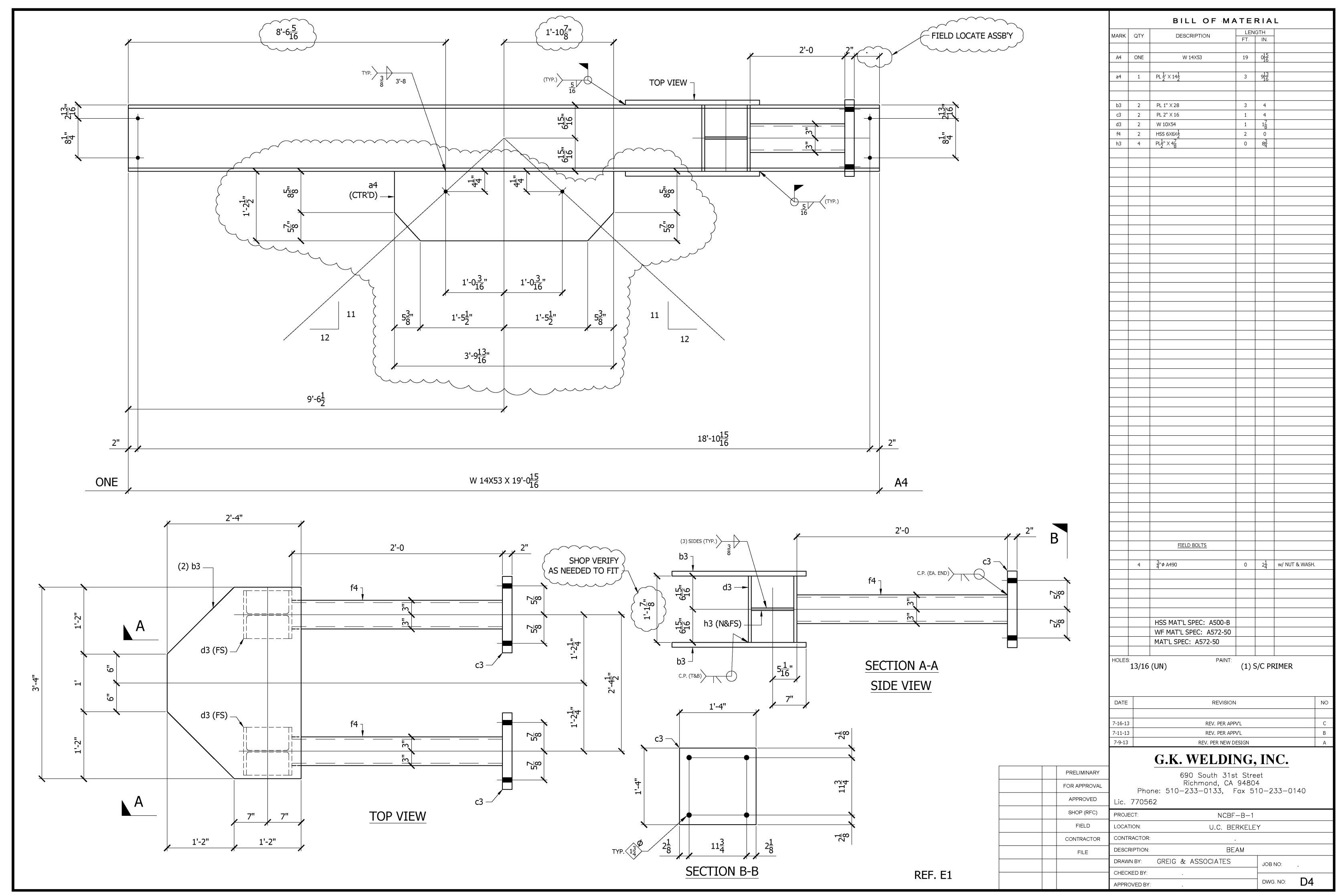
PRELIMINARY

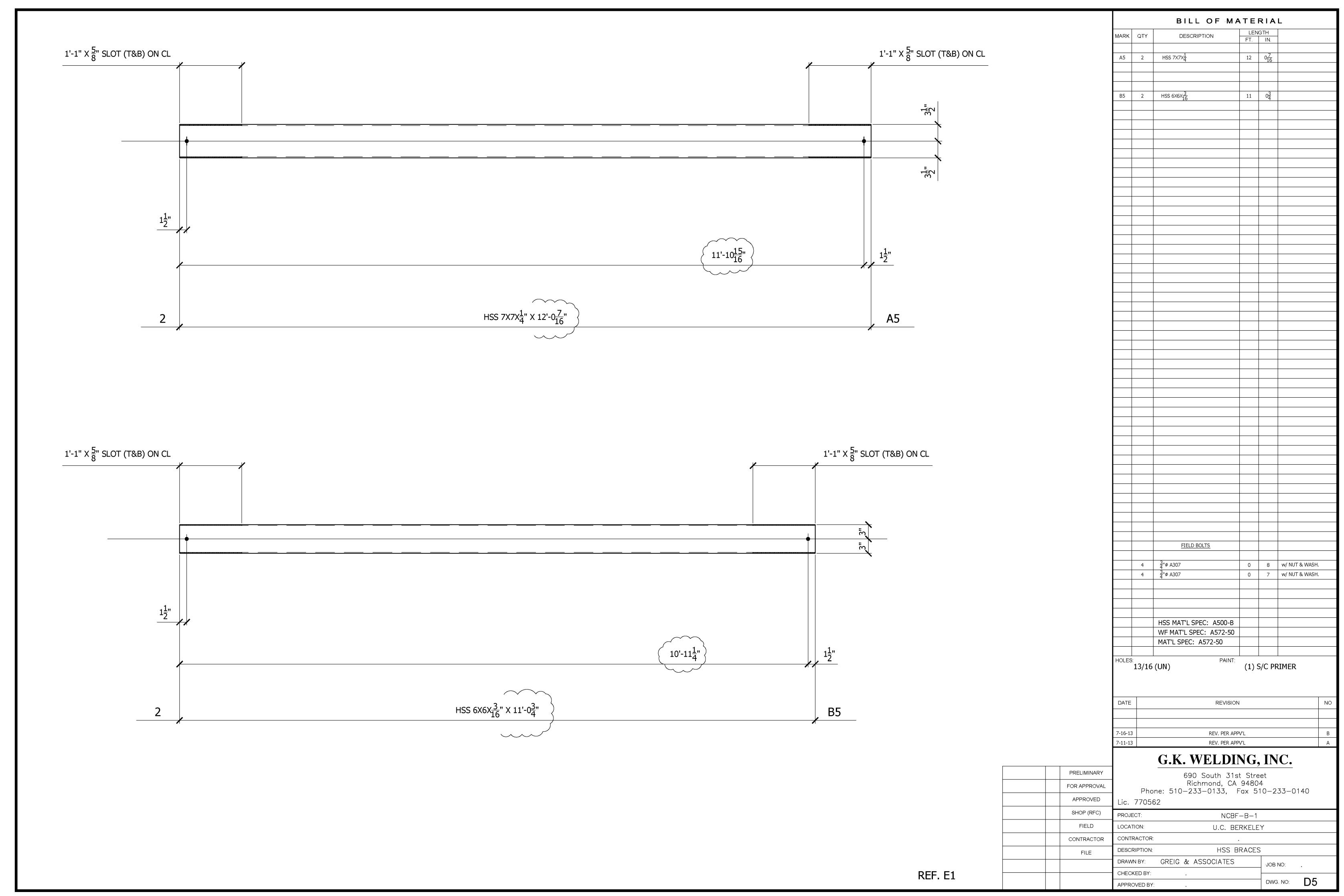
FOR APPROVAL

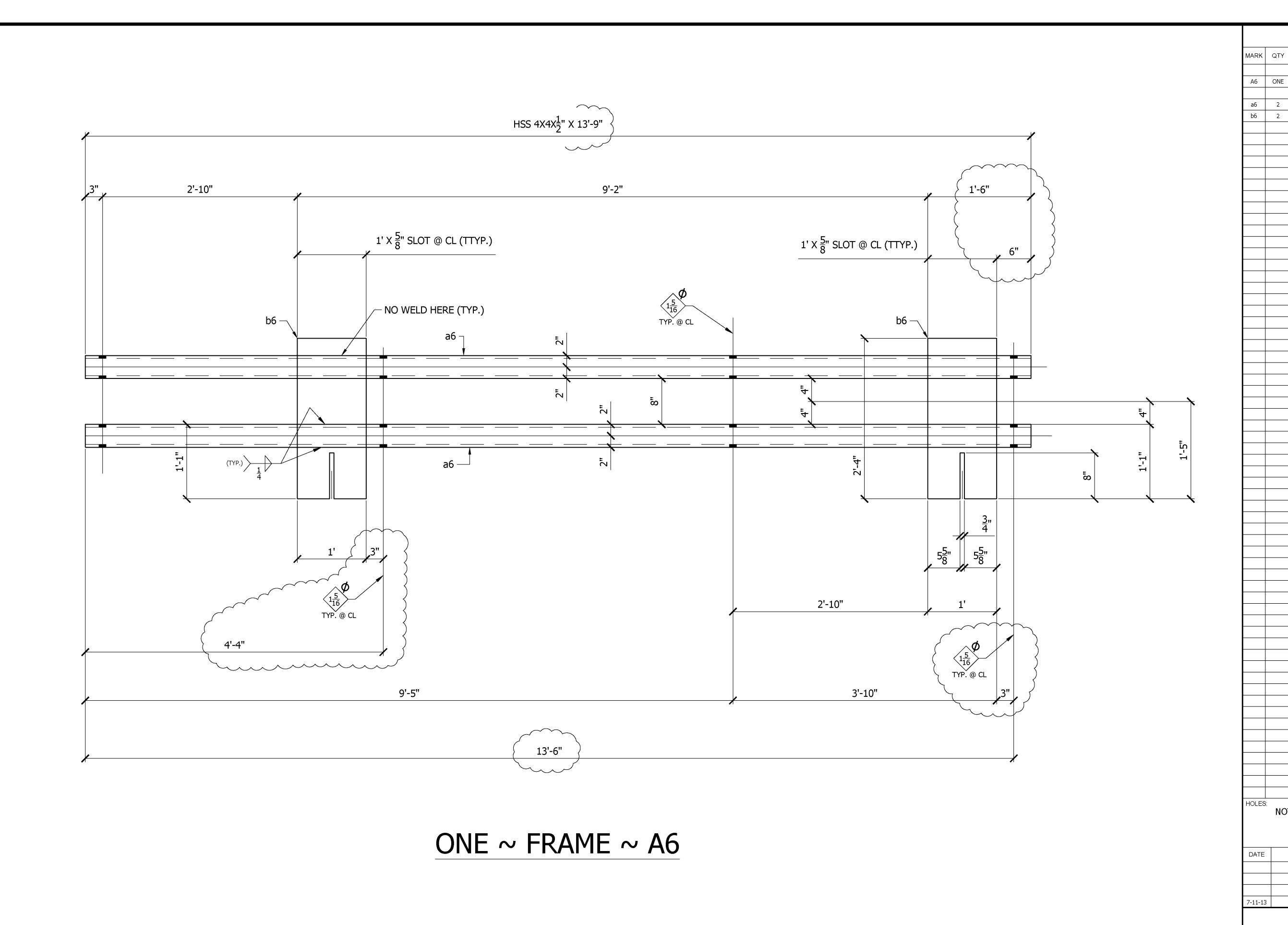












G.K. WELDING, INC. 690 South 31st Street Richmond, CA 94804 Phone: 510—233—0133, Fax 510—233—0140 PRELIMINARY FOR APPROVAL Lic. 770562 SHOP (RFC) NCBF-B-1 PROJECT: U.C. BERKELEY FIELD LOCATION: CONTRACTOR CONTRACTOR: FRAME DESCRIPTION: GREIG & ASSOCIATES JOB NO: CHECKED BY:

APPROVED BY:

HSS MAT'L SPEC: A500-B WF MAT'L SPEC: A572-50

REVISION

REV. PER APPV'L

(1) S/C PRIMER

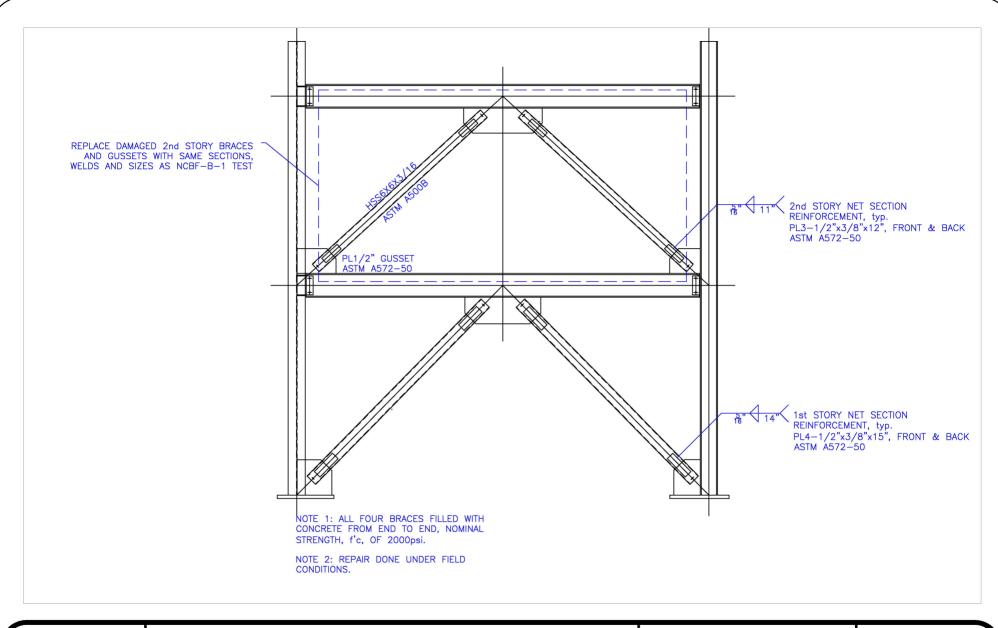
DWG. NO: **D6**

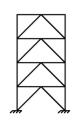
MAT'L SPEC: A572-50

BILL OF MATERIAL

DESCRIPTION

REF. E1





Project

Collaborative Developments for Seismic Rehabilitation of Vulnerable Braced Frames Barb Simpson

Date

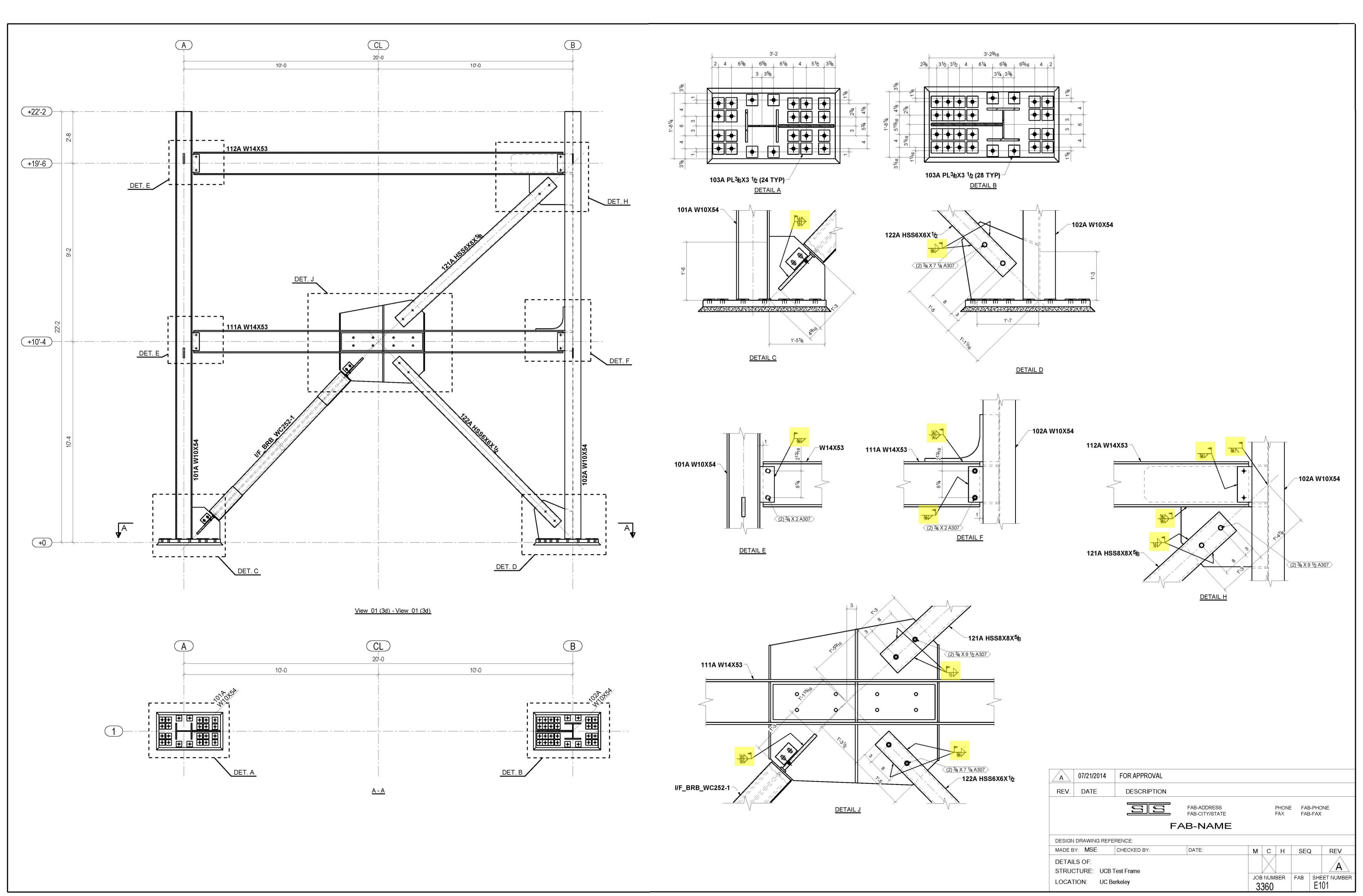
11/20/2013

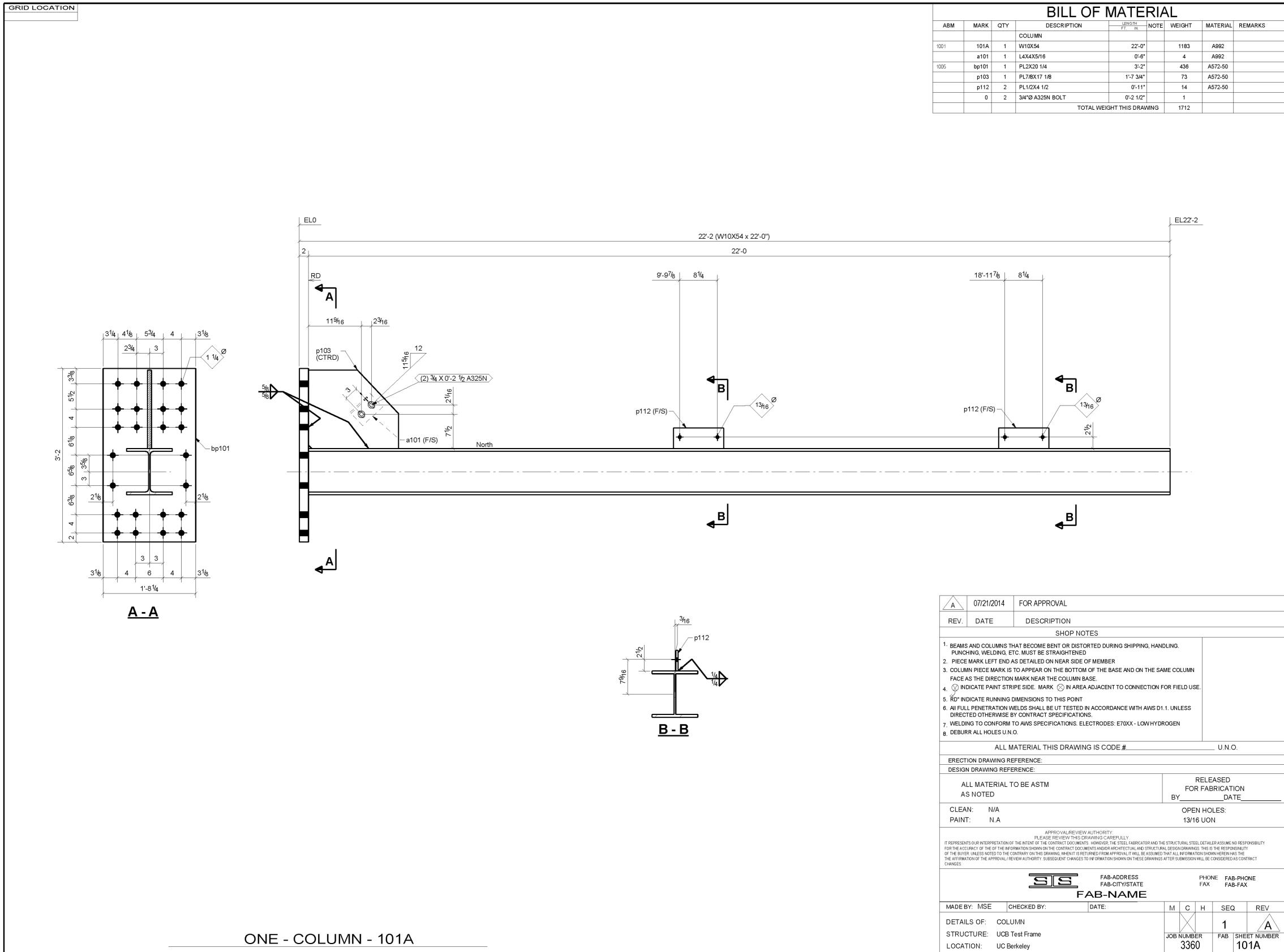
Sensor Title

Frame Repair

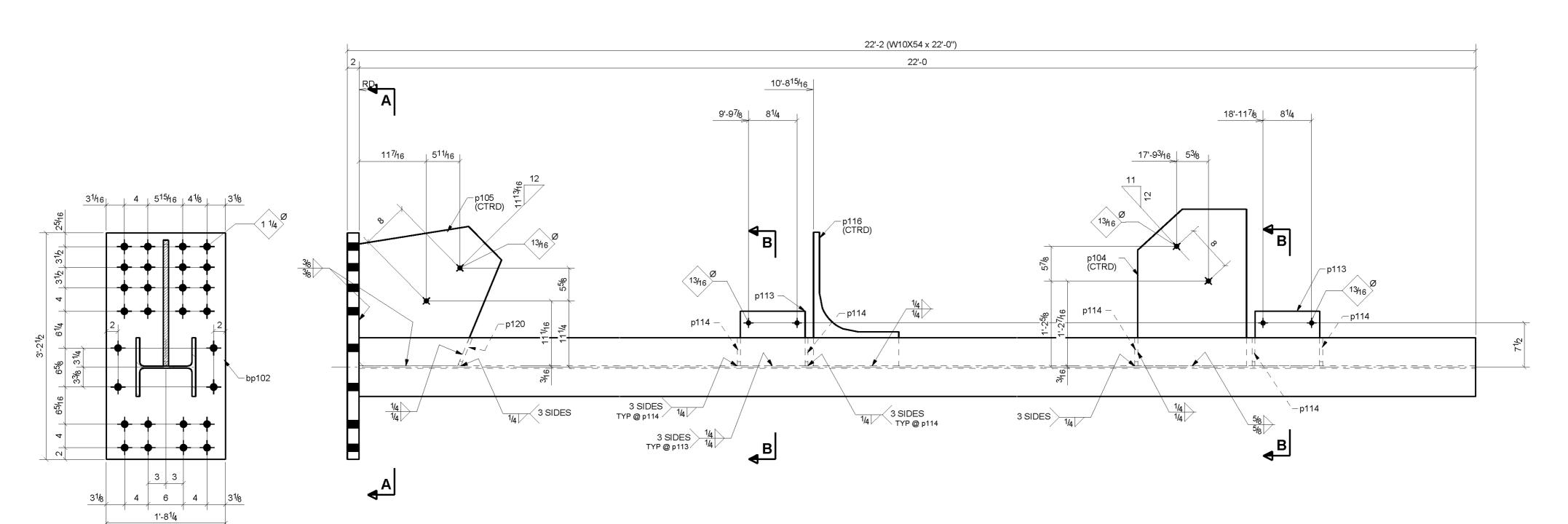
Sheet

 E_2





	BILL OF MATERIAL											
ABM	MARK	QTY	DESCRIPTION	LENGTH NOT		WEIGHT	MATERIAL	REMARKS				
			COLUMN									
1001	102A	1	W10X54	22'-0"		1183	A992					
1006	bp102	1	PL2X20 1/4	3'-2 1/2"		442	A572-50					
	p104	1	PL7/8X18 1/2	2'-2 11/16"		116	A572-50					
	p105	1	PL7/8X23 3/4	2'-0 3/16"		115	A572-50					
	p113	2	PL1/2X9 5/16	0'-11"		29	A572-50					
	p114	5	PL1/2X4 13/16	0'-8 7/8"		30	A572-50					
	p116	1	PL1/2X14 1/2	1'-10 3/4"		16	A572-50					
	p120	1	PL1/2X5	0'-8 7/8"		6	A572-50					
			TOTAL WEK	SHT THIS DRAW	ING	1937						



p113 p114 -

07/21/2014 FOR APPROVAL REV. DATE DESCRIPTION SHOP NOTES

- · BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED
- 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER
- 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE.
- 4. \bigcirc INDICATE PAINT STRIPE SIDE. MARK \bigcirc IN AREA ADJACENT TO CONNECTION FOR FIELD USE.
- 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT
- 6. All FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS.

7. WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O.

ALL MATERIAL THIS DRAWING IS CODE # _ U.N.O. ERECTION DRAWING REFERENCE: DESIGN DRAWING REFERENCE: RELEASED ALL MATERIAL TO BE ASTM FOR FABRICATION AS NOTED CLEAN: N/A OPEN HOLES: PAINT: N.A 13/16 UON

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.
IT REPRESENTS OUR INTERPRETATION OF THE INTENT OF THE CONTRACT DOCUMENTS. HOWEVER, THE STEEL FABRICATOR AND THE STRUCTURAL STEEL DETAILER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE OF THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS ANDIOR ARCHITECTUAL AND STRUCTURAL DESIGN DRAWINGS. THIS IS THE RESPONSINILITY OF THE BUYER UNLESS NOTED TO THE CONTRACT OF THIS IS THE RESPONSINILITY OF THE BUYER UNLESS NOTED TO THE CONTRACTY ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN HEREIN HAS THE THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS AFTER SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES.

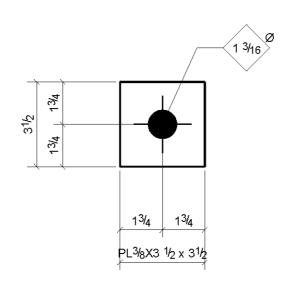
	SS F/	FAB-ADDRESS FAB-CITY/STATE AB-NAME			PHOI FAX	- 1710	-PHC -FAX	
MADEBY: MSE	CHECKED BY:	DATE:	М	С	Н	SEQ		REV
DETAILS OF: CO	OLUMN			\times		1		A
STRUCTURE: UC	CB Test Frame		JOB I	NUMB	ER	FAB	SHE	ET NUMBER
LOCATION: UC	C Berkeley			336	0		10	2A

ONE - COLUMN - 102A

MODEL NAME: 3360 - UCBerkeley Te

<u>A - A</u>

GRID LOCATION LENGTH NOTE WEIGHT MATERIAL REMARKS ABM MARK QTY PLATE_WASHER 103A 52 PL3/8X3 1/2 0'-3 1/2" TOTAL WEIGHT THIS DRAWING



07/21/2014 | FOR APPROVAL REV. DATE DESCRIPTION SHOP NOTES \cdot BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE. $_4$. \bigcirc Indicate paint stripe side. Mark \bigcirc in area adjacent to connection for field use. 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT 6. All FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS. 7. WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O. ALL MATERIAL THIS DRAWING IS CODE # _ U.N.O. ERECTION DRAWING REFERENCE: DESIGN DRAWING REFERENCE: RELEASED ALL MATERIAL TO BE ASTM FOR FABRICATION AS NOTED CLEAN: N/A OPEN HOLES: PAINT: N.A 13/16 UON APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.

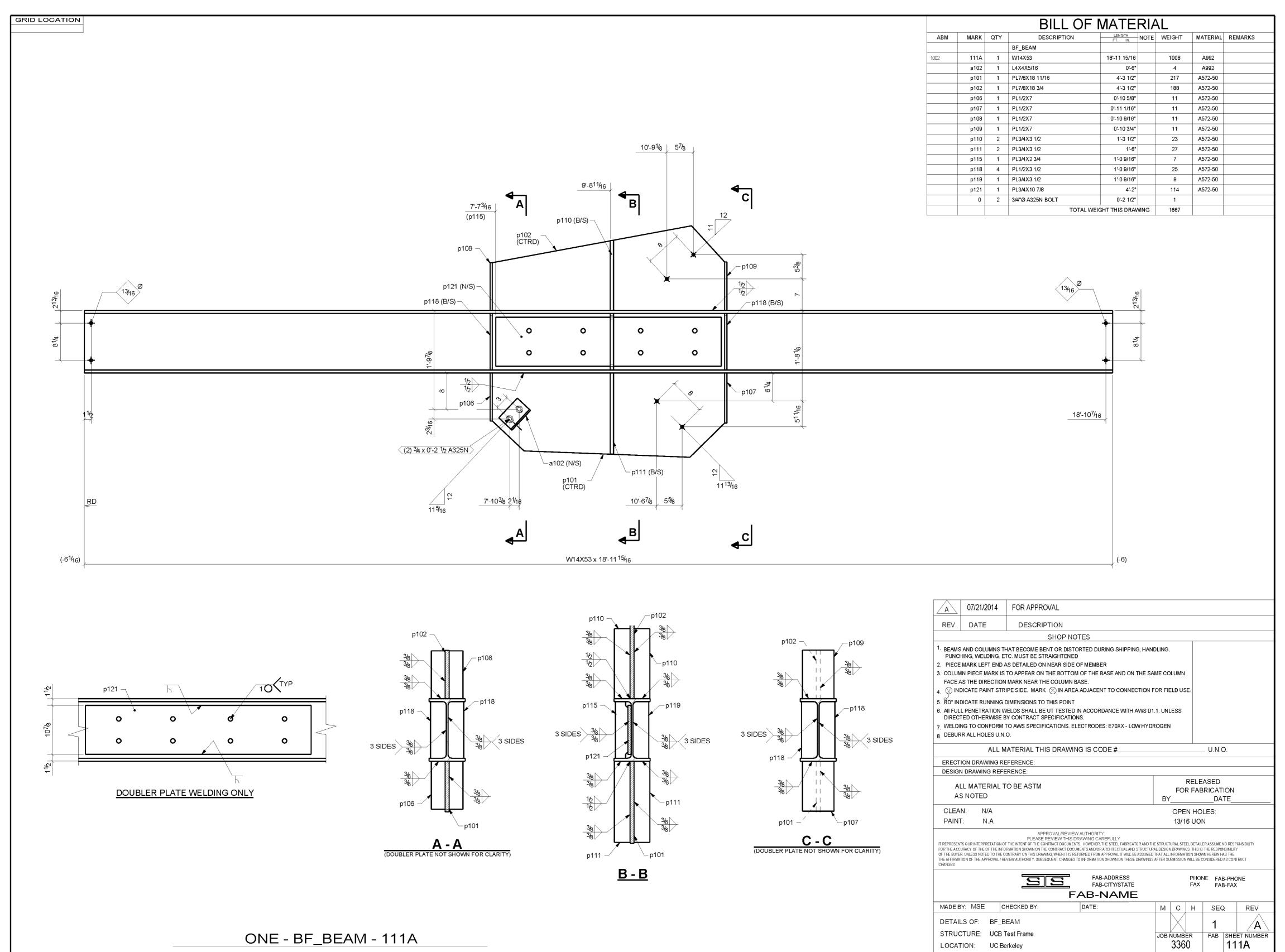
IT REPRESENTS OUR INTERPRETATION OF THE INTENT OF THE CONTRACT DOCUMENTS. HOWEVER, THE STEEL FABRICATOR AND THE STRUCTURAL STEEL DETAILER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE OF THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS AND/OR ARCHITECTUAL AND STRUCTURAL DESIGN DRAWINGS. THIS IS THE RESPONSIBILITY OF THE BUYER UNLESS NOTED TO THE CONTRARY ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN HEREIN HAS THE THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS AFTER SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES. SS PHONE FAB-PHONE FAX FAB-FAX FAB-ADDRESS FAB-CITY/STATE **FAB-NAME** MADE BY: CHECKED BY: DATE: M C H SEQ REV DETAILS OF: PLATE_WASHER STRUCTURE: UCB Test Frame JOB NUMBER FAB SHEET NUMBER 3360 103A LOCATION: UC Berkeley

A572-50

68

68

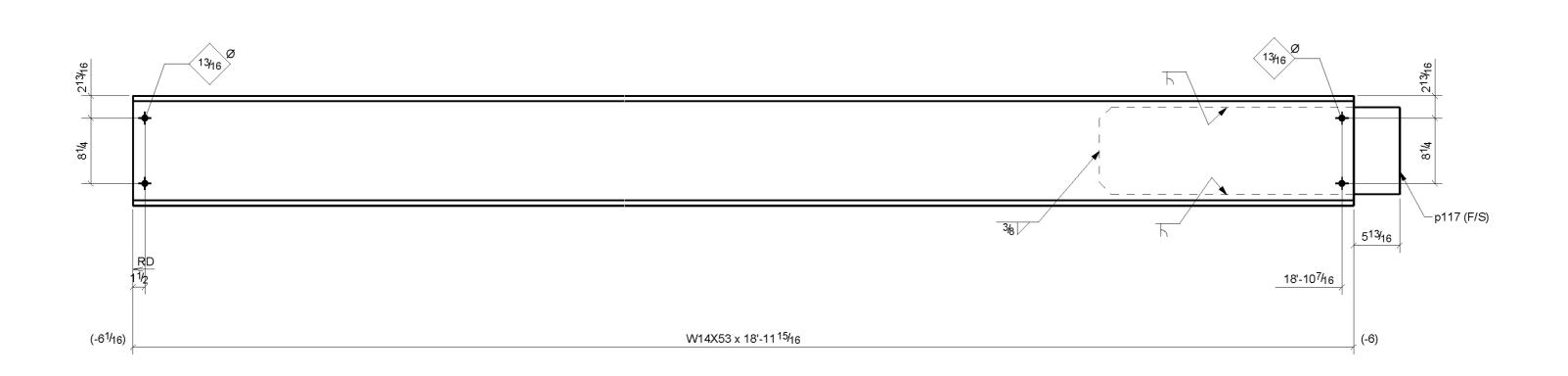
52 - PLATE_WASHERS - 103A



MODEL NAME: 3360 - UCBerkeley Te PLOTTED: 10:04:06

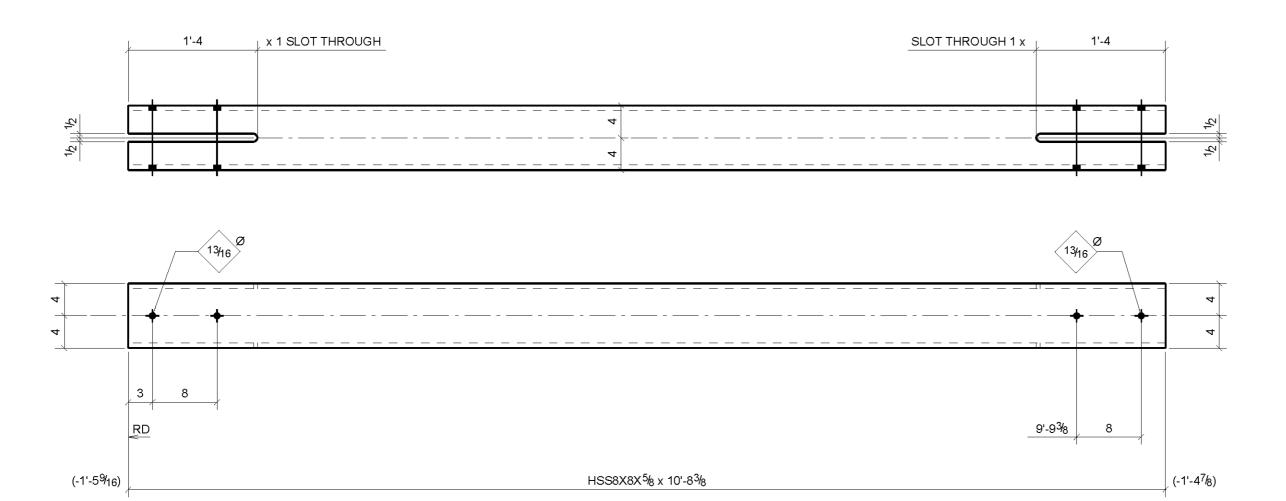
GRID LOCATION

	BILL OF MATERIAL												
ABM	MARK	QTY	DESCRIPTION	LENGTH FT. IN.	NOTE	WEIGHT	MATERIAL	REMARKS					
			BF_BEAM										
1002	112A	1	W14X53	18'-11 15/16		1008	A992						
	p117	1	PL1/2X11	3'-2"		59	A572-50						
			TOTAL WEIGHT THIS DRAWING 1067										



A	07/21/2014	FOR APPROVA	AL.								
REV.	DATE	DESCRIPTION	ON								
		SH	HOP NOTES								
1. BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE. 4. INDICATE PAINT STRIPE SIDE. MARK IN AREA ADJACENT TO CONNECTION FOR FIELD USE. 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT 6. AII FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS.											
	ALL N	IATERIAL THIS [DRAWING IS CODE#		U.N.C	 D.					
ERECT	ION DRAWING RE	EFERENCE:									
DESIG	I DRAWING REFE	ERENCE:									
	LL MATERIAL T S NOTED	O BE ASTM		1	RELEASED : FABRICAT DA						
CLEA	N: N/A			OPEN	N HOLES:						
PAIN	: N.A			13/16	NOU						
FOR THE ACC OF THE BUYE	URACY OF THE OF THE INFO R UNLESS NOTED TO THE C	PLEASE REVI F THE INTENT OF THE CONTRA RMATION SHOWN ON THE CON ONTRARY ON THIS DRAWING, I	VAL/REVIEW AUTHORITY: IEW THIS DRAWING CAREFULLY. ICT DOCUMENTS. HOWEVER, THE STEEL FABRICS. IRRACT DOCUMENTS AND/OR ARCHITECTUAL AN WHEN IT IS RETURNED FROM APPROVAL IT WILL INT CHANGES TO INFORMATION SHOWN ON THES! FAB-ADDRESS FAB-CITY/STATE	D STRUCTURAL DESIGN DRAWINGS 3E ASSUMED THAT ALL INFORMATI E DRAWINGS AFTER SUBMISSION V	S. THIS IS THE RESPOI ON SHOWN HEREIN HA WILL BE CONSIDERED PHONE FAE	NSINIUTY AS THE					
			FAB-NAME		T/VC FAI)-FAX					
MADEB	Y: MSE C	HECKED BY:	DATE:		H SEC	Q REV					
				3	1	Λ.Δ.					
DETAIL	_	EAl∀l Fest Frame		JOB NUMBE		SHEET NUMBER					

GRID LOCATION



	BILL OF MATERIAL												
ABM	MARK	QTY	DESCRIPTION	LENGTH FT. IN.	NOTE	WEIGHT	MATERIAL	REMARKS					
			VERT_BRACE										
1004	121A	1	HSS8X8X5/8	10'-8 3/8"		597	A500-GR.B						
			TOTAL WEK	SHT THIS DRAV	VING	597							

A	07/21/2014	FOR APPROVAL						
REV.	DATE	DESCRIPTION						
		SHOP NOTES						
1. BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE. 4. NO INDICATE PAINT STRIPE SIDE. MARK NEAR ADJACENT TO CONNECTION FOR FIELD USE. 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT 6. AII FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS. 7. WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O.								
	ALL M	ATERIAL THIS DRAWING IS COL	DE#	U.N.O.				
ERECT	ION DRAWING RE	FERENCE:						
DESIGN	N DRAWING REFE	RENCE:						
	LL MATERIAL T S NOTED	O BE ASTM		RELEASED R FABRICATIONDATE				
CLEA	N: N/A		OPE	:N HOLES:				
PAINT: N.A 13/16 UON								
FOR THE ACCU	URACY OF THE OF THE INFO R. UNLESS NOTED TO THE CO	APPROVAL/REVIEW AUTHORITY PLEASE REVIEW THIS DRAWING CAR THE INTENT OF THE CONTRACT DOCUMENTS. HOWEVER, TH MANTION SHOWN ON THE CONTRACT DOCUMENTS AND/OR A DINTRARY ON THIS DRAWING, WHEN IT IS RETURNED FROM AF VIEW AUTHORITY. SUBSEQUENT CHANGES TO INFORMATION	EFULLY. HE STEEL FABRICATOR AND THE STRUCTURAL STE RCHITECTUAL AND STRUCTURAL DESIGN DRAWIN PPROVAL IT WILL BE ASSUMED THAT ALL INFORMA	GS. THIS IS THE RESPONSINILITY TION SHOWN HEREIN HAS THE				

FAB-ADDRESS FAB-CITY/STATE

FAB-NAME

DATE:

PHONE FAB-PHONE FAX FAB-FAX

REV

FAB SHEET NUMBER 121A

M C H SEQ

JOB NUMBER 3360

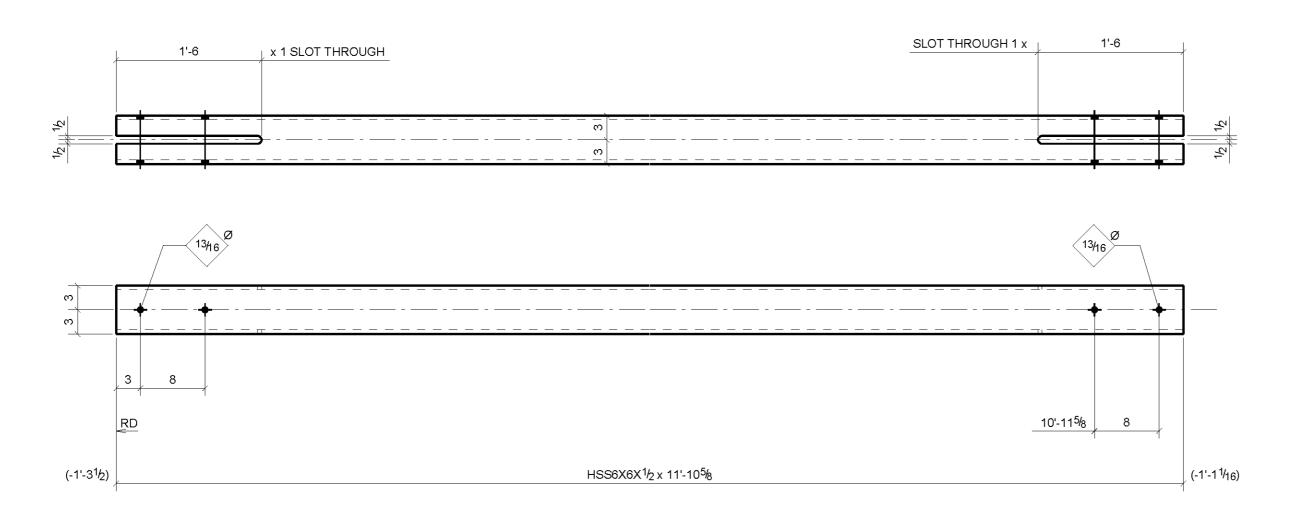
SS

MADE BY: MSE CHECKED BY:

DETAILS OF: VERT_BRACE STRUCTURE: UCB Test Frame

LOCATION: UC Berkeley

GRID LOCATION



LENGTH NOTE WEIGHT MATERIAL REMARKS ABM MARK QTY VERT_BRACE 122A 1 HSS6X6X1/2 A500-GR.B 11'-10 5/8" TOTAL WEIGHT THIS DRAWING 394

FOR APPROVAL 07/21/2014 REV. DATE DESCRIPTION SHOP NOTES

- · BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED
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- 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE.
- 4. (X) INDICATE PAINT STRIPE SIDE. MARK (X) IN AREA ADJACENT TO CONNECTION FOR FIELD USE.
- 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT

LOCATION: UC Berkeley

- 6. All FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS.

ALL MATERIAL THIS DRAWING IS CODE #

7. WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O.

ERECTION DRAWING REFERENCE: DESIGN DRAWING REFERENCE: RELEASED ALL MATERIAL TO BE ASTM FOR FABRICATION AS NOTED CLEAN: N/A OPEN HOLES:

_ U.N.O.

122A

PAINT: 13/16 UON

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.

IT REPRESENTS OUR INTERPRETATION OF THE INTENT OF THE CONTRACT DOCUMENTS. HOWEVER, THE STEEL FABRICATOR AND THE STRUCTURAL STEEL DETAILER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE OF THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS AND/OR ARCHITECTUAL AND STRUCTURAL DESIGN DRAWINGS. THIS IS THE RESPONSIBILITY OF THE BUYER UNLESS NOTED TO THE CONTRARY ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN HEREIN HAS THE THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS AFTER SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES.

SS PHONE FAB-PHONE FAX FAB-FAX FAB-ADDRESS FAB-CITY/STATE **FAB-NAME** MADE BY: MSE CHECKED BY: DATE: M C H SEQ DETAILS OF: VERT_BRACE STRUCTURE: UCB Test Frame JOB NUMBER FAB SHEET NUMBER 3360

ONE - VERT_BRACE - 122A

GRID LOCATION PL1X6 x 1'-4

	BILL OF MATERIAL												
ABM	MARK	QTY	DESCRIPTION	LENGTH FT. IN.	NOTE	WEIGHT	MATERIAL	REMARKS					
			PLATE										
	131A	2	PL1X6	1'-4"		54	A572-50						
			TOTAL WEK	SHT THIS DRAV	VING	54							

A 07/21/2014 FOR APPROVAL REV. DATE DESCRIPTION SHOP NOTES \cdot BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE. $_{4.}$ \otimes Indicate Paint Stripe Side. Mark \otimes in area adjacent to connection for field USE. 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT 6. All FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS. 7 WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O. ALL MATERIAL THIS DRAWING IS CODE # _ U.N.O. ERECTION DRAWING REFERENCE: DESIGN DRAWING REFERENCE: RELEASED ALL MATERIAL TO BE ASTM FOR FABRICATION AS NOTED ___DATE_ CLEAN: N/A OPEN HOLES: PAINT: N.A 13/16 UON APPROVAL/REVIEW AUTHORITY:
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JOB NUMBER

3360

FAB SHEET NUMBER

131A

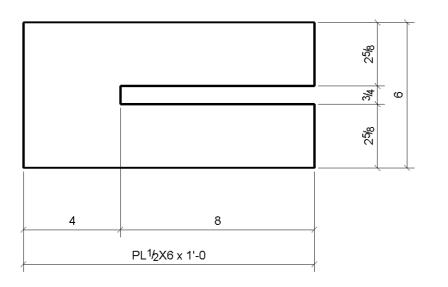
STRUCTURE: UCB Test Frame

LOCATION: UC Berkeley

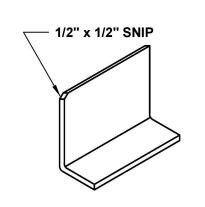
2 - PLATES - 131A

MODEL NAME: 3360 - UCBerkeley Te

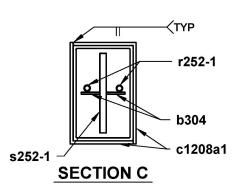
GRID LOCATION LENGTH NOTE WEIGHT MATERIAL REMARKS ABM MARK QTY DESCRIPTION PLATE 132A 2 PL1/2X6 19 A572-50 1'-0" TOTAL WEIGHT THIS DRAWING 19



A	07/21/2014	FOR APPROVAL										
REV.	DATE	DESCRIPTION										
		SHOP NO	TES									
PUNCH 2. PIECE 3. COLUM FACE A 4. INI 5. RD" INI 6. AII FULL DIRECT	1. BEAMS AND COLUMNS THAT BECOME BENT OR DISTORTED DURING SHIPPING, HANDLING. PUNCHING, WELDING, ETC. MUST BE STRAIGHTENED 2. PIECE MARK LEFT END AS DETAILED ON NEAR SIDE OF MEMBER 3. COLUMN PIECE MARK IS TO APPEAR ON THE BOTTOM OF THE BASE AND ON THE SAME COLUMN FACE AS THE DIRECTION MARK NEAR THE COLUMN BASE. 4. INDICATE PAINT STRIPE SIDE. MARK IN AREA ADJACENT TO CONNECTION FOR FIELD USE. 5. RD" INDICATE RUNNING DIMENSIONS TO THIS POINT 6. AII FULL PENETRATION WELDS SHALL BE UT TESTED IN ACCORDANCE WITH AWS D1.1. UNLESS DIRECTED OTHERWISE BY CONTRACT SPECIFICATIONS. 7. WELDING TO CONFORM TO AWS SPECIFICATIONS. ELECTRODES: E70XX - LOW HYDROGEN 8. DEBURR ALL HOLES U.N.O.											
8. DEBUR	8. DEBURR ALL HOLES U.N.O.											
	ALL MATERIAL THIS DRAWING IS CODE # U.N.O.											
ERECT	ERECTION DRAWING REFERENCE:											
DESIGN	N DRAWING REFE	ERENCE:										
	LL MATERIAL T S NOTED	O BE ASTM			EASED BRICATION DATE							
CLEA	N: N/A		'	OPEN H	OLES:							
PAINT	: N.A			13/16 UC	NC							
FOR THE ACCU	URACY OF THE OF THE INFO R. UNLESS NOTED TO THE C	RMATION SHOWN ON THE CONTRACT DOCU ONTRARY ON THIS DRAWING, WHEN IT IS RE		AL DESIGN DRAWINGS. THIS THAT ALL INFORMATION SH	IS THE RESPONSINILITY OWN HEREIN HAS THE							
			FAB-ADDRESS FAB-CITY/STATE	PH(FA)	ONE FAB-PHO	NE						
		 F.	AB-NAME	170	· FAD-FAX							
MADEB	Y: MSE C	HECKED BY:	DATE:	мсн	SEQ	REV						
DETAIL	S OF: PLAT	E			1 1	-						
STRUC	TURE: UCB 1	Test Frame		JOB NUMBER		T NUMBER						
LOCAT	ION: UC Be	erkeley		3360	13.							
l		-										

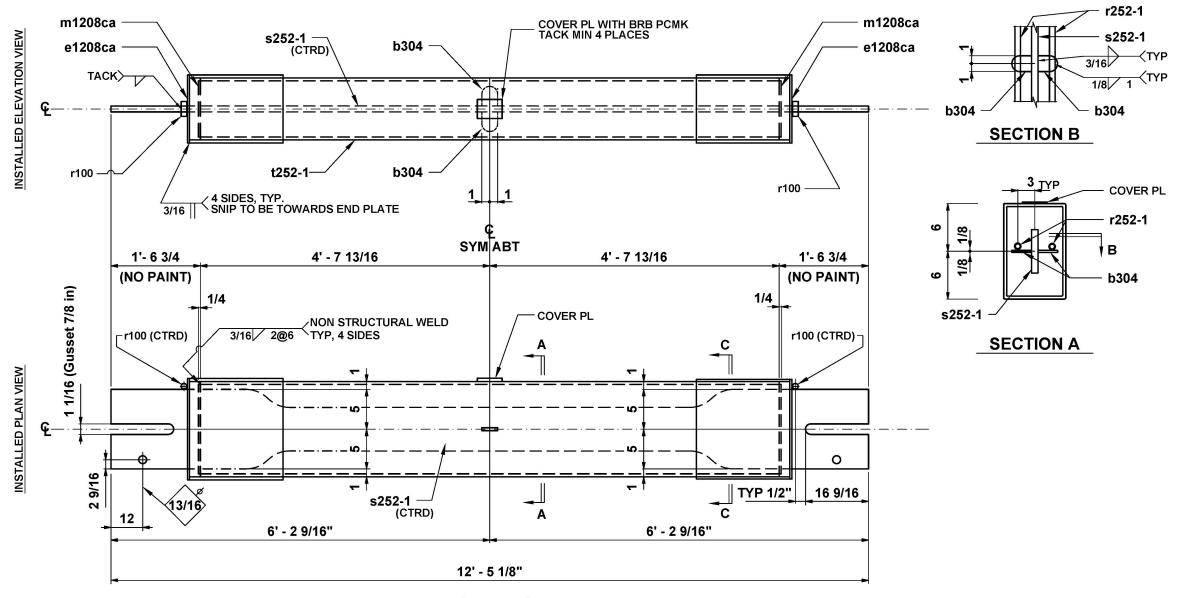


BENT COLLAR PLATE
REF DWG: c1208a1



BRACE LOCATION(S)

Test Frame at. el. L1



BILL OF MATERIAL

REF: WORK THIS DWG W/ DWG NO.: s252-1

1 BRACE WC252-1

						W/ D	WG NO.: <u>s2</u> :	<u>52-</u> 1	
NO.		LE	NGTH						SU
PCS.	DESCRIPTION	FT.	IN.	MARK	REMARKS		7		PR
1	Brace	12	5 1/8	WC252-1	BRB 5.00				LC
1	HSS12x8x1/4	9	3 5/8	t252-1	A500-Gr B	1			CL
4	PL 1/4 x 18	1	9	c1208a1	A36		4		SS
1	FB 1 x 10	12	5 1/8	s252-1	A36-LY	B	6/25/14 TN	MANUFACTURE	EN
2	PL 1/4 x 2	0	3 1/8	b304	A36		6/6/14	Approval	DF
2	PL 1/4 x 7 3/4	0	11 3/4	m1208ca	A36		TN	7,55.0141	
2	PL 1/2 x 8 1/4	1	0 1/4	e1208ca	A36	NO.	DATE	DESCRIPTION OF REVISION	
2	#4 rebar	9	10	r252-1		SHO	CHECKED BY	ECE MARK ON LEFT HAND END OF MEMBER AS DETAILED	
								ER WITH PIECE MARK TO END SHOWN ON PLACING PLAN	6
						MA	TERIAL: A3	6 & AS NOTED APPROX CONCR.: 0.19 YRDS3 EA	6. S P
						SUF	RFACE PREP	2.: SP3 APPROX BRACE WT.: 1490 POUNDS EA	
						SHO	OP PAINT: F	Primer SPACER: f442a	J

SUBJECT: WC252-1

PROJECT: UC Berkeley Test Brace

LOCATION: Strongback Frame

CUSTOMER: UC Berkeley

SS BRB NO.: 1

NG. DWG: 0 ERECTION DWG:

_ ERECTION DWG: ____ DATE: 6/16/14 CHECKED BY: SEQ.:

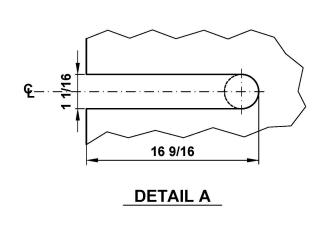
RAWN BY: TN CHECKED BY:

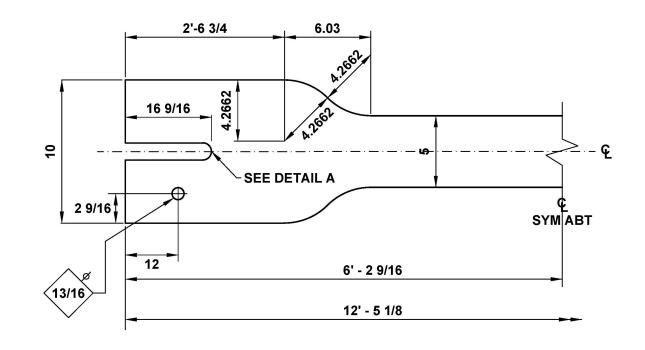
StarSeismic

6300 N. SAGEWOOD DR SUITE H #511 PARK CITY UT 84098 WWW.STARSEISMIC.NET PHONE: 1-435-940-9222 FAX: 1-435-655-0073

JOB NO.: 140623

DWG NO.: WC252-1





Spacer mark: f442a

Lyz=75.6 in

Total Brace Asc= 5.00 in^2

1 STRAND PLATE s252-1 **BILL OF MATERIAL**

SHOP NOTE: DEBURR ALL CUT EDGES

		-							
NO.			NGTH			\wedge			SUBJECT:
PCS.	DESCRIPTION	FT.	IN.	MARK	REMARKS				PROJECT:
1	STRAND PLATE			s252-1	A36-LY				LOCATION:
1	FB 1 x 10	12	2 9/16	s252-1	Heat# 910-1216				CUSTOMER:
					Fysc = 39.93 ksi				
						\mathbb{I}			
									DRAWN BY:
						$+\triangle$			
						$\dashv \triangle \triangle$			
							6/25/14	MANUFACTURE	
						B	TN		6200 N SAGEI
							6/16/14	Approval	6300 N. SAGEN SUITE H #511
						$ \triangle$	TN		PARK CITY UT
		-				NO.	DATE	DESCRIPTION OF REVISION	JOB NO.:
						140.	CHECKED BY	BESSERI HON OF REVISION	00D NO

s252-1 **UC Berkeley Test Brace**

CUSTOMER: UC Berkeley

Strongback Frame

DATE: 6/16/14 DRAWN BY: TN **CHECKED BY:**

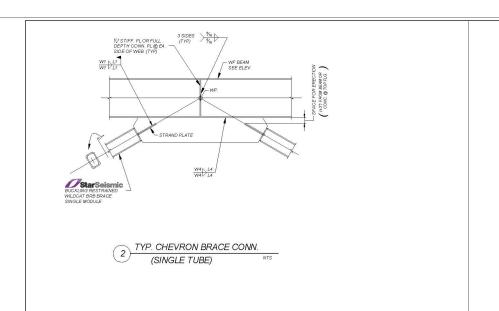


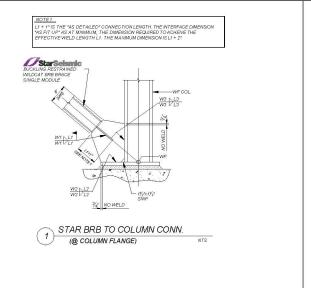
6300 N. SAGEWOOD DR SUITE H #511 PARK CITY UT 84098

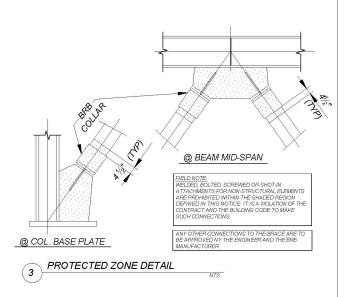
WWW.STARSEISMIC.NET PHONE: 1-435-940-9222 FAX: 1-435-655-0073

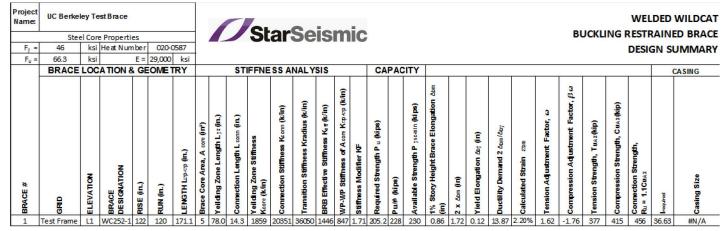
JOB NO.: 140623

DWG NO.: s252-1









COLLAR ASSEMBLY TO
GUSSET PLATE

COLLAR ASSEMBLY TO
GUSSET PLATE

COLLAR ASSY SHIPPED LOGGE
(NOT WELDED) WITH BRB. (SEE

FIELD NOTE)

FIELD NOTE

TOP VIEW

COLLAR ASSY SHIPPED LOGGE
(NOT WELDED) WITH BRB. (SEE

FIELD NOTE)

TOP VIEW

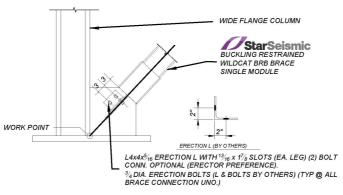
TO

5 BUCKLING RESTRAINED BRACE DESIGN SUMMARY

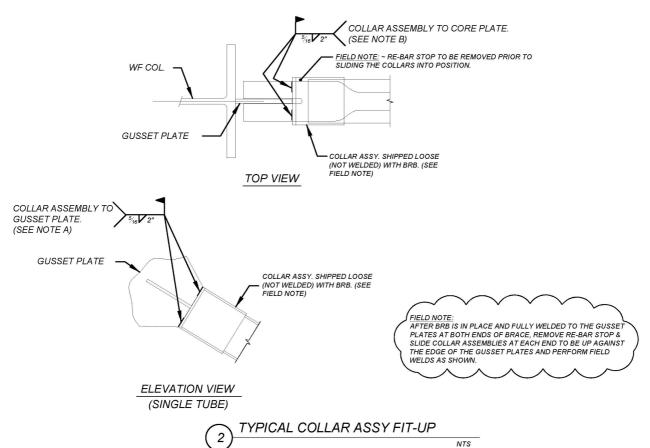
0	Sta	ar Seismic	6300 N. SAGE SUITE H #511 PARK CITY, U	PHO	N.STARSEISMIC.N NE: 1-435-940-9222 1-435-655-0073		AT™	BRB I	BRACI	E COI	NN. S	CHE	D.
			BRACE	TO GUSSET	WELD	GUSSET	BEA	M/COLUMN	CONNECTI	ON	C11	VRON W	(ELD
BRACE #	BRACE END	BRACE LOCATION (S)	#		1472	PLATE THICKNESS	BEAM	WELD	COLUMI	N WELD	CHE	: VROIV VV	ELD
"	2.40		WELDS	L1	W1	(IN)	W2	L2	W3	L3	W4	L4	L5
1	L	TEST FRAME	4	14	7/16	7/8	1/2	12	9/16	19	7/16	49	18



Star	Seismic
Star	
Star	Seismic
6300 N. SAGEWOOD DR	
SUITE H #511	NWW.STARSEISMIC.NET PHONE: 1-435-940-9222
	FAX: 1-435-655-0073
NAME: WELDED BRB GUSSET DE	AILS AND SCHEDULE
PROJECT:	



STAR BRB TO COLUMN CONN. (@ COLUMN FLANGE) NTS



NOTES:

A. THIS WELD CAN BE AT THE NEAR OR FAR SIDE OF THE GUSSET PLATE AT THE ERECTOR'S OPTION. B. THIS WELD CAN BE AT THE TOP OR BOTTOM SIDE OF THE CORE PLATE AT THE ERECTOR'S OPTION.

