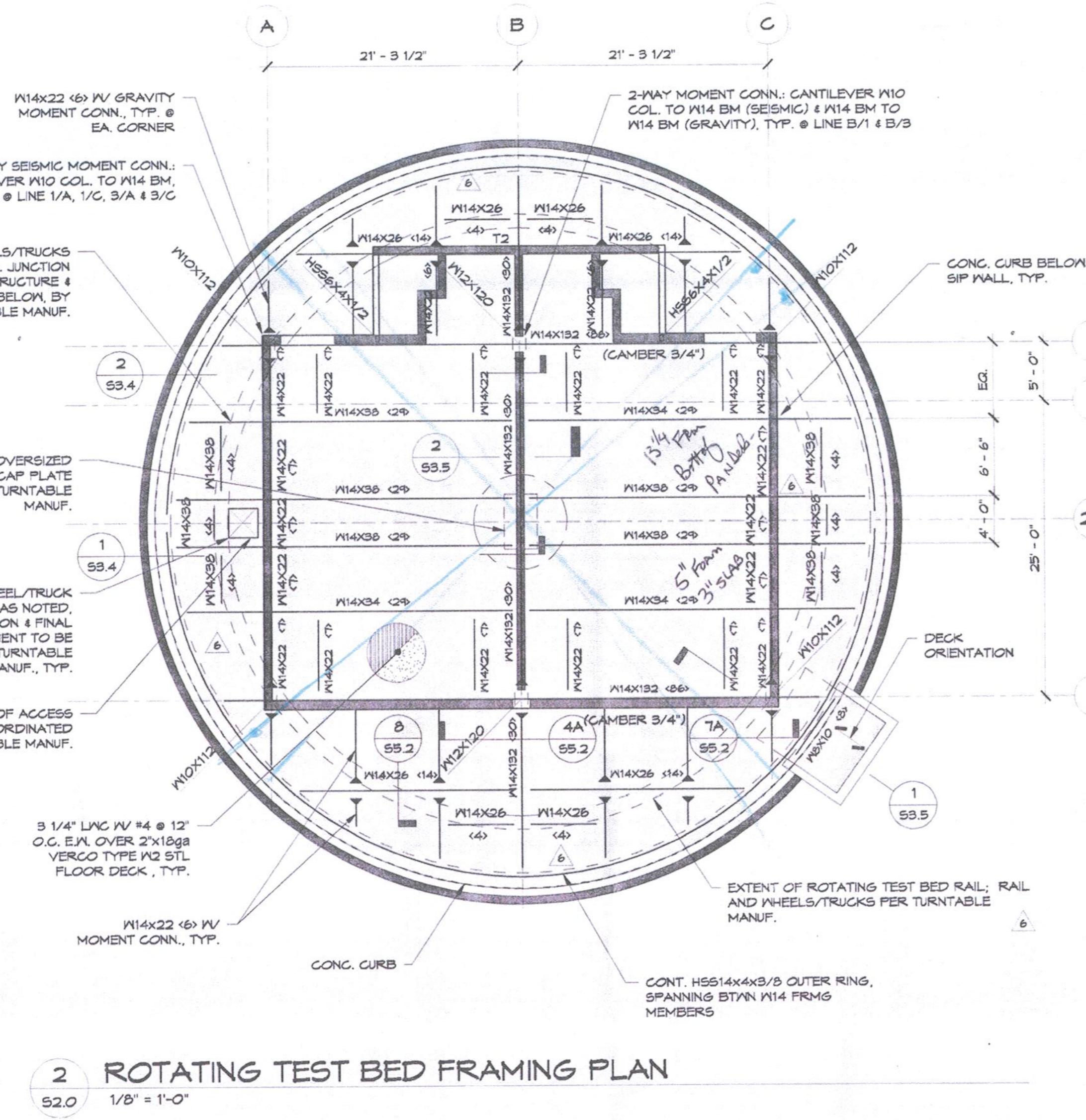
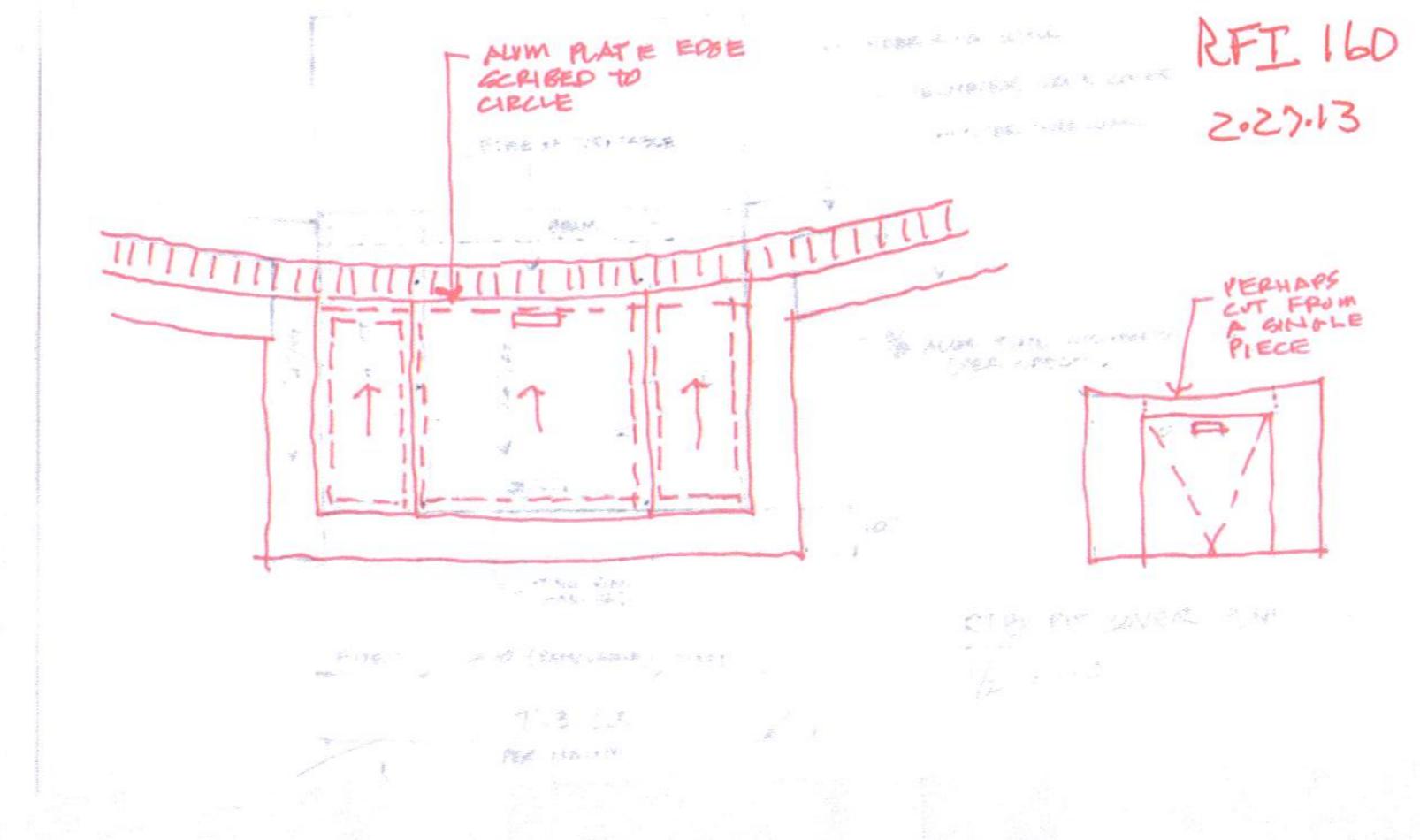
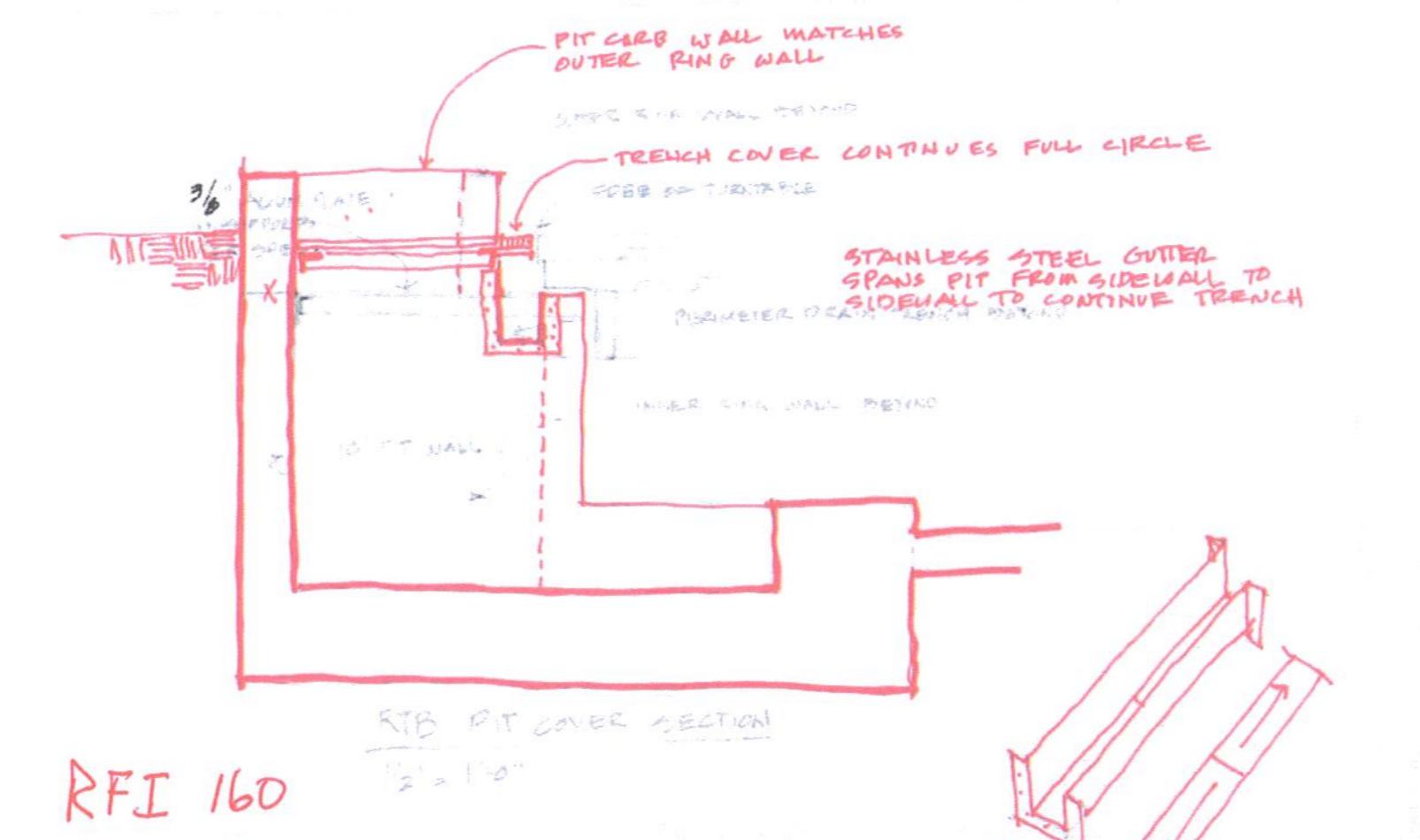


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2 ROTATING TEST BED FRAMING PLAN

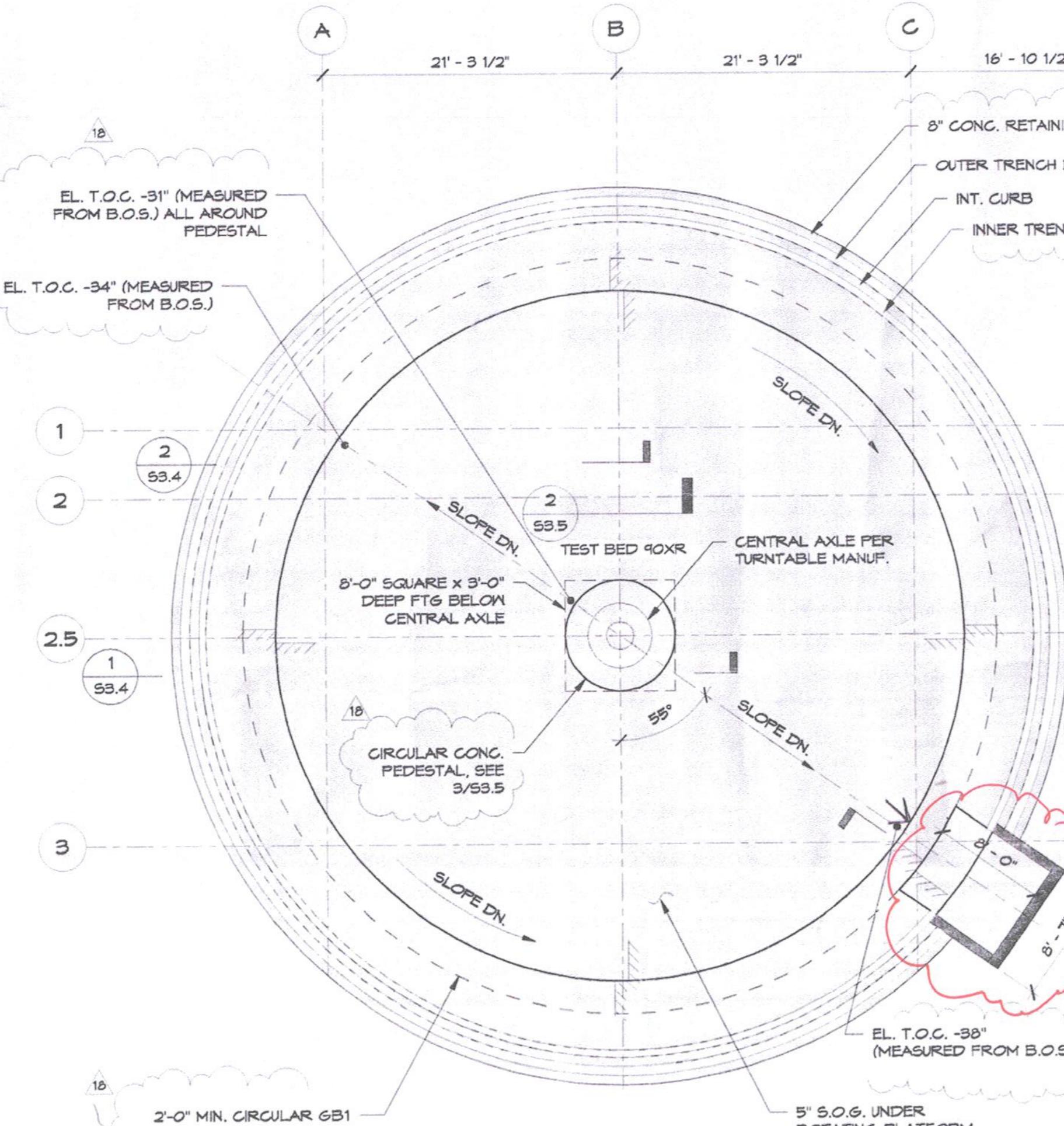


RFI 160
2-27-13

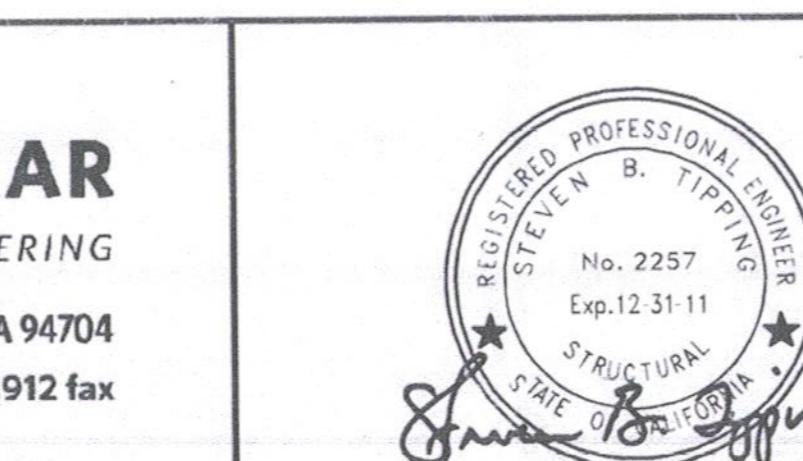
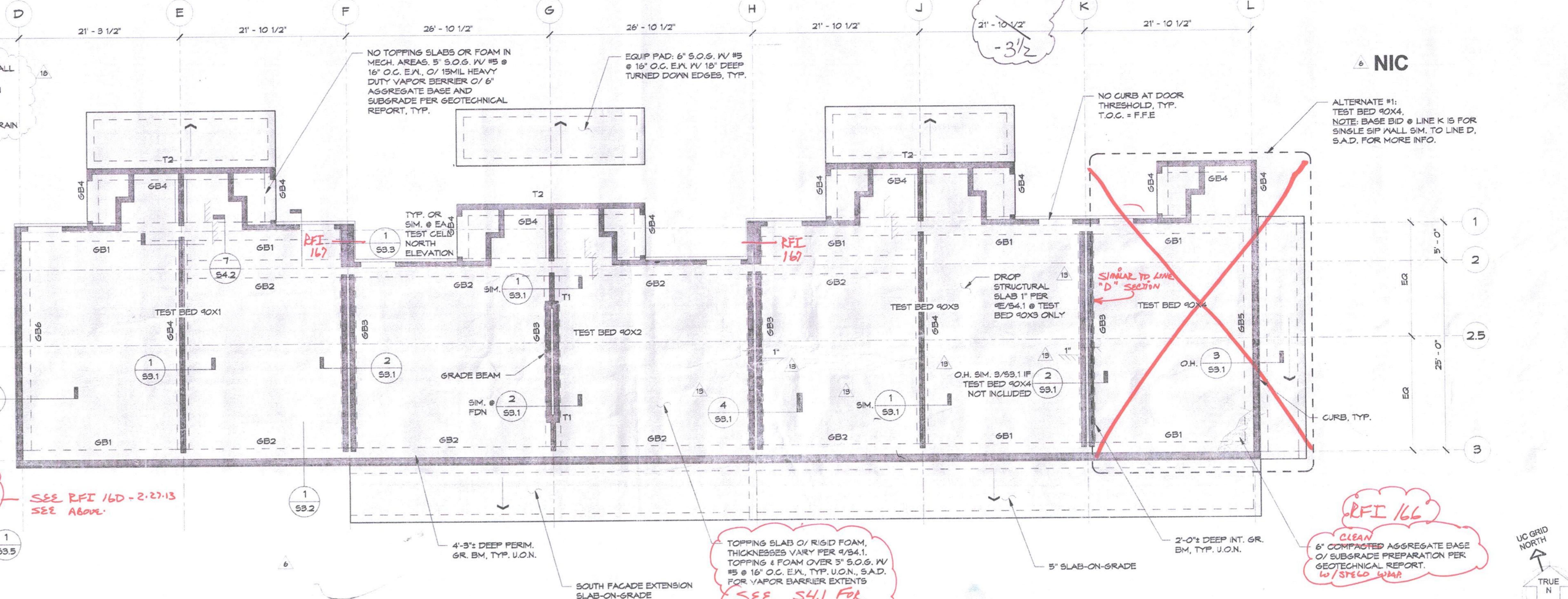


Response:- Confirmed- there should be a curb at line F between lines 1 and 2. Similarly also at line H between lines 1 and 2
 Exterior curb detail should be similar to 1/S3.2 and 3/S3.1 (except that its for a double SIP assembly). Note one detail number listed in RFI above is incorrect.
 Yes- Detail 1/S3.3 reflects the curb condition at line F between 2 and 3.
 However refer to detail 2/S3.1 for additional information on interior wall construction.
 Shalaka Chande
 Stantec
 03.11.2013

RFI 167



1 FOUNDATION PLAN



ASI #13

01/09/2013

2	NAL	JRW	JRW	01/19/2011 ADDENDUM 2, REVISION 2
6	CTT	JRW	JRW	05/11/2012 ISSUE FOR CONSTRUCTION
13	CTT	JRW	JRW	09/19/2012 ASI-7
14	CTT	JRW	JRW	11/30/2012 ASI-9
16	DN	JRW	JRW	01/04/2013 ASI-11
18	DN	JRW	JRW	01/09/2013 ASI-13

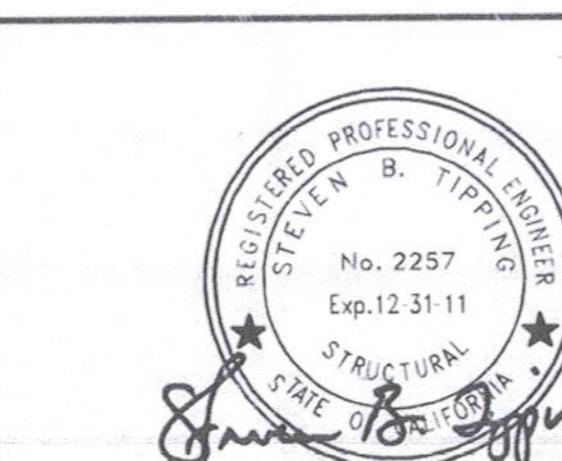
Revision number Drawn by Checked by Approved by Date Remarks

LAWRENCE BERKELEY NATIONAL LABORATORIES FACILITIES DIVISION						
Scale: 1/8" = 1'-0"	Sheet no: S2.0	Project No: 6947816	Project ID: FNO100	Original sheet - A01	Drawn by NAL Date 11/14/2011	Checked by JRW Date 11/14/2011



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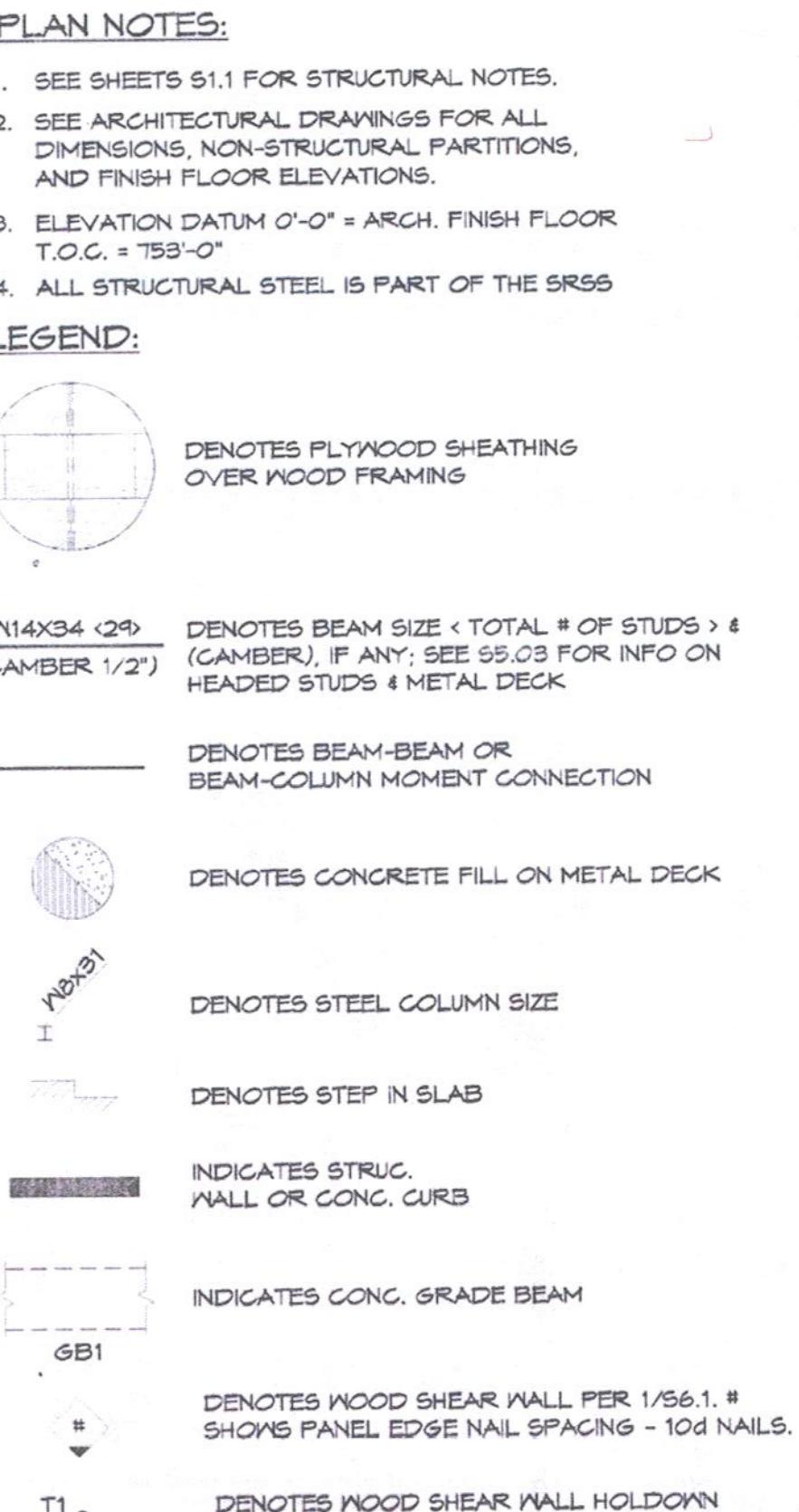
TIPPING MAR
 STRUCTURAL ENGINEERING
 1906 Shattuck Ave., Berkeley, CA 94704
 510 549-1906 510 549-1912 fax
 TM PROJECT NO.: 2010.062



ASI #13

01/09/2013

Revision number Drawn by Checked by Approved by Date Remarks



PLAN NOTES:
 1. SEE SHEETS S1.1 FOR STRUCTURAL NOTES.
 2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, NON-STRUCTURAL PARTITIONS, AND FINISH FLOOR ELEVATIONS.
 3. ELEVATION DATUM 0'-0" = ARCH. FINISH FLOOR T.O.C. 159'-0"
 4. ALL STRUCTURAL STEEL IS PART OF THE SRSS

LEGEND:
 (CAMBER 1/2") DENOTES BEAM SIZE X TOTAL # OF STUDS X (CAMBER). IF ANY: SEE S8.03 FOR INFO ON HEADED STUDS & METAL DECK
 (CAMBER 1/2") DENOTES BEAM-BEAM OR BEAM-COLUMN MOMENT CONNECTION
 I (1x3) DENOTES CONCRETE FILL ON METAL DECK
 I (1x3) DENOTES STEEL COLUMN SIZE
 I (1x3) DENOTES STEP IN SLAB
 I (1x3) INDICATES STRUC. WALL OR CONC. CURB
 GB1 INDICATES CONC. GRADE BEAM
 GB1 INDICATES WOOD SHEAR WALL PER 1/S6.1. # SHOWS PANEL EDGE NAIL SPACING - 10d NAILS.
 T1 INDICATES WOOD SHEAR WALL HOLDOWN
 T1: HDU14 T2: HDU8 T3: MSTG52 (V) STRAP

Information Requested

- Detail 1/S3.2 - Please provide the width of the south facade extension. **RFI BB**
- See attached S2.0 section. Should there be a Footing return wall near F line?
- Should the slab now stop at K line since K to L is out of the contract?
- Please provide the width of the curbs that sit on the beams - reference details 1-4/S3.1, details 1-2/S3.2 and details 1-2/S3.5

Suggestion

Any potential schedule, cost, and drawing impacts to be determined.

RESPONSE

- Please confirm extension slab width dimension with Arch.
- Confirm. There should be a return footing near Line F as shown in the attached portion of S2.0.
- Please confirm final extension slab extends with the building.
- Curb widths to match framing including sheathing, as shown in the details, U.O.N. Curb width at North and South Facades (1/S3.2) is 7'-1". See SSD-11 (S3.2) attached.

Christian Tipping, Tipping Mar
10/18/2012

RESPONSE

- Extension slab width dimension to be 7'-8" (from face of concrete curb).
- Confirmed. Slab from K to L is NIC. Exterior wall at column K should be similar to wall at column line D.

Shalaka Chande - Stantec
10/18/2012

Information Requested **RFI 135**

- See attached S2.0 section. Should there be a Footing return wall near F line?
- Based on typical 8-1/4" SIP panel width called out in the specs, the curb width at detail 1/A8.06 will be **16-1/2"** (typ at a double SIP assembly) and will be **8-1/4"** at detail 1/A8.07 (typ at a single SIP assembly).

Width of curb (above grade) between the electrical/mechanical room wall and the test bed shall be per plan details 1/A/S3.3 and 1/A/S3.6 on ASI 16.1 (i.e. curb to align with F.O. SIP which is **8-1/4"** at sip panel and **6-1/2"** wide at metal stud wall as shown).

Below grade beam to be **1-2"** from grid to outside face of grade beam per revised section detail 1/S3.2 on ASI#16.2.

Please note: The actual concrete curb width should be determined in coordination with the framer- based on SIP panel dimensions provided, plus construction tolerance or other considerations by the Contractor. *Confirms by Keith of LOS GATOS 3-6-13*

LOS GATOS CONSTRUCTION CO., INC
500 SOUTH HILLVIEW DR. - MILPITAS CA. 95035
408-956-2000 FAX 408-956-2001

REQUEST FOR INFORMATION

INFORMATION REQUESTED BY: Keith Mohler RFI #: 17

PROJECT: User Test Bed DATE: 12/12/12

CHALLENGE

24' maximum SIP panels -

At the tall test bed 90x2 at the permanent SIP panels on Grid G - detail 2A & B/S6.2 indicate that SIP panels to be continuous height.

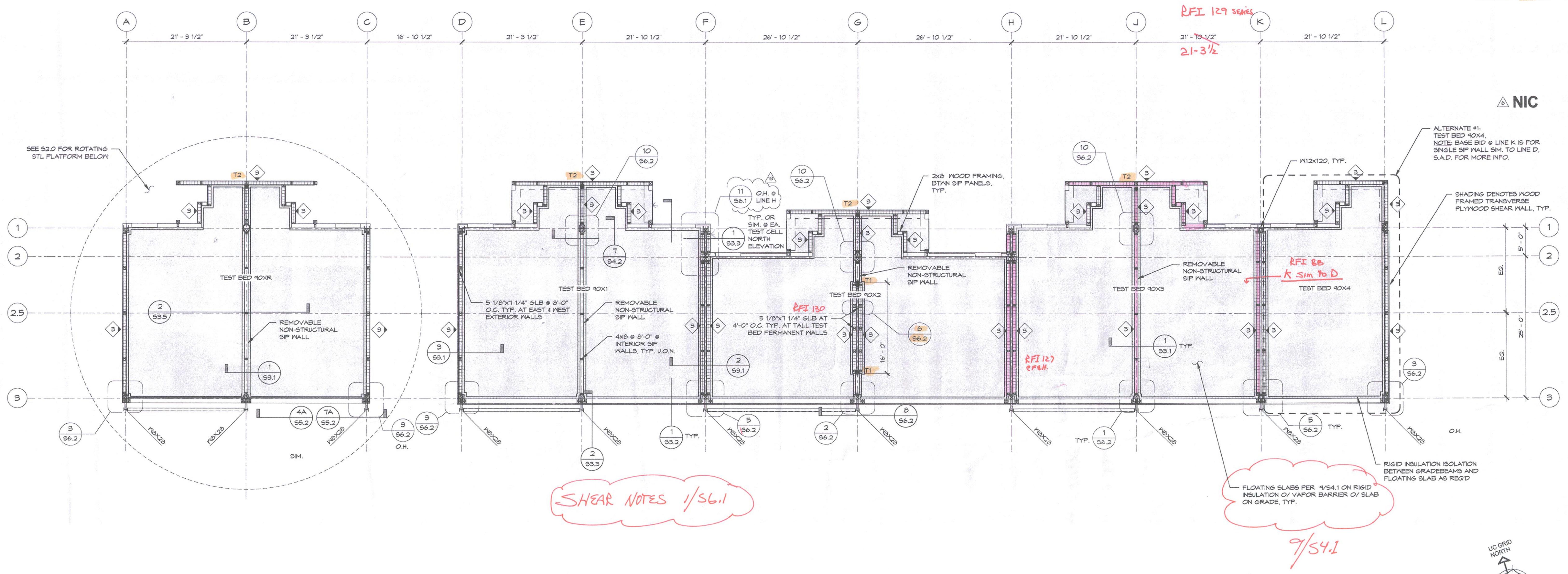
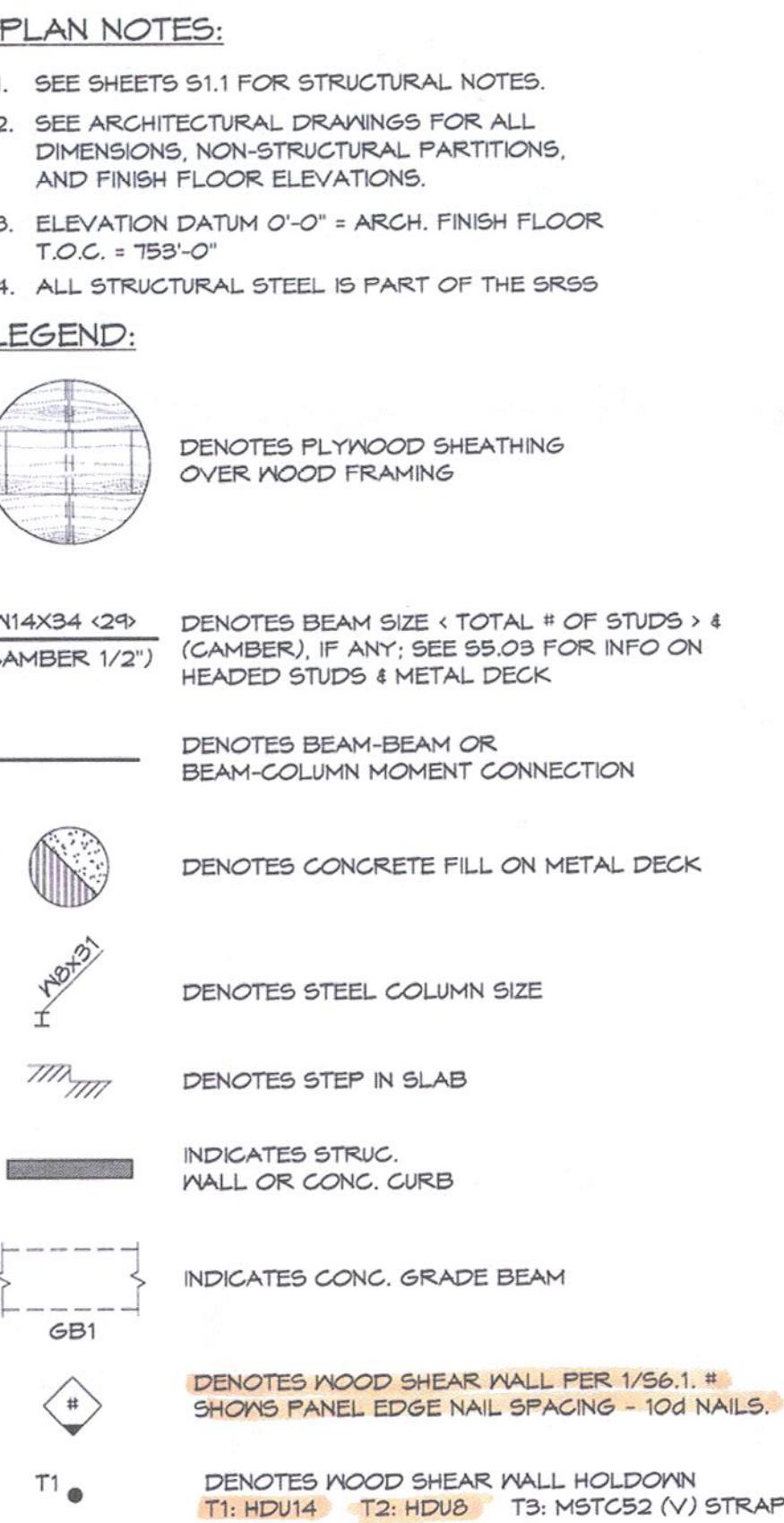
SIP manufacturers maximum height of panel is 24'-0" and the permanent panels on Grid G will exceed 24' maximum. Upper and lower panels can be joined at future floor height with 6 3/4 x 10 1/2 GLB at full height vertical 5 1/8 x 7 1/4 GLB panel splices similar to detail 20/S6.2. The 6 3/4 x 10 1/2 horizontal GLB at future floor line will also take the place of the internal 3x10.

Will this be acceptable?

See attached.

RESPONSE

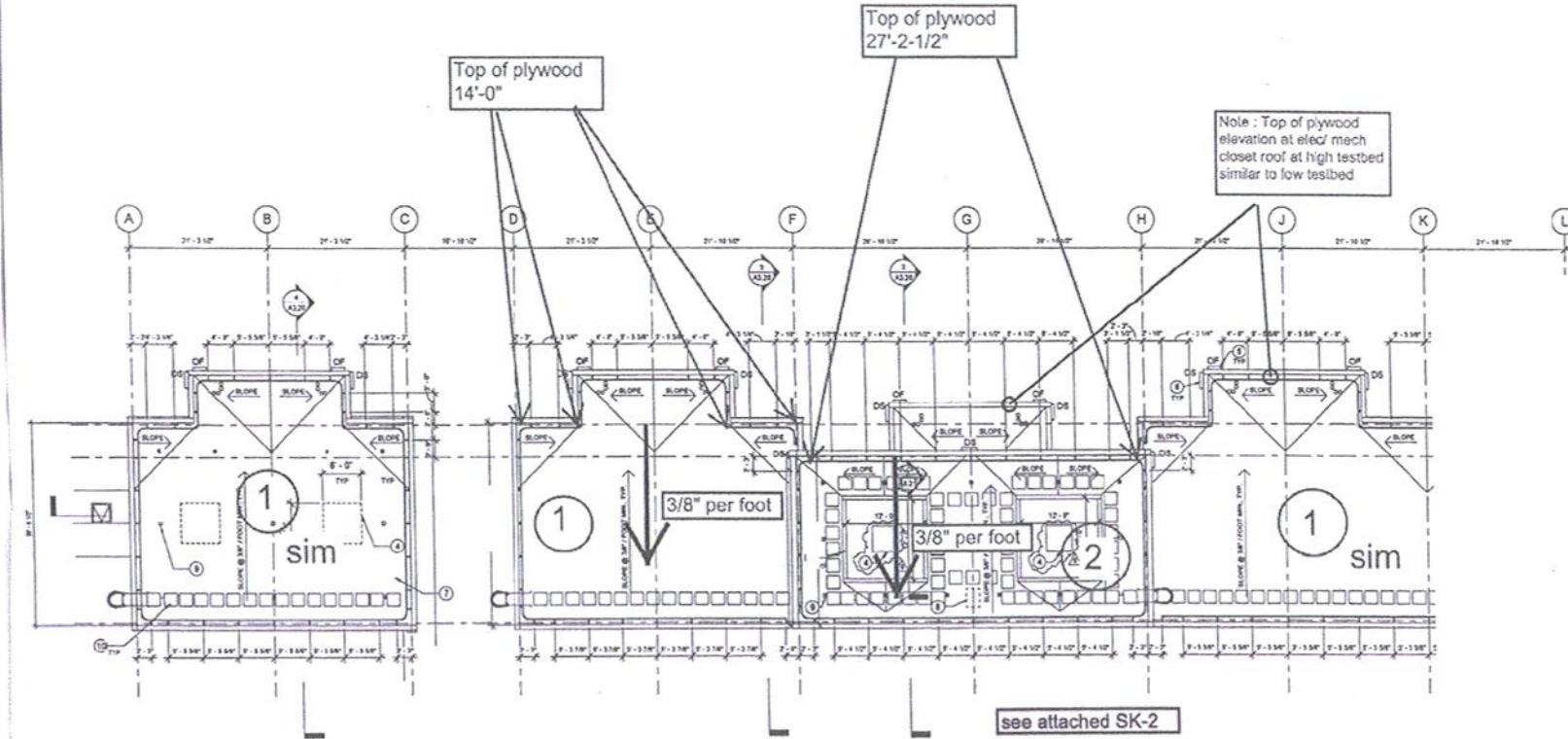
Regarding the permanent portion of the tall interior wall at line G, the proposed joint at wall mid-height is not acceptable because it will form a hinge at the wall mid-height when the intermediate floor is not in place. As shown in details 2A & 2B/S6.3, the design intent is for the vertical glu-lams at 4'-0" on center to extend the full height to underside of floor above. This will be acceptable when the intermediate floor is not in place. SIP panels to be tall, fit between the taller continuous vertical glu-lams and the filler panel (no taller than 3 feet), with a horizontal blocking spine between vertical glu-lams, similar to 1C or 1D/S6.1 except the spine members are long blocks between the vertical glu-lams. If detail 1C is used (two x spines interlaced), the project inspector shall verify that internal gluing is properly installed before the filler panel is placed that conceals the interlocking. John Wolfe, Tipping Mar, Jan 14, 2013



1 GROUND FLOOR FRAMING PLAN
1/8" = 1'-0"

Stantec		TIPPING MAR STRUCTURAL ENGINEERING 1906 Shattuck Ave., Berkeley, CA 94704 510 549-1906 510 549-1912 fax TM PROJECT NO.: 2010,062	REGISTERED PROFESSIONAL ENGINEER No. 2257 Exp. 12-31-11 STATE OF CALIFORNIA STRUCTURAL	ASI-7 09/19/2012	1 NAL JRW JRW 01/13/2011 ADDENDUM 1 2 NAL JRW JRW 01/19/2011 ADDENDUM 2, REVISION 2 6 CTT JRW JRW 05/11/2012 ISSUE FOR CONSTRUCTION 13 CTT JRW JRW 09/19/2012 ASI-7	Project name User Test Bed Facility (UTBF) Project Lawrence Berkeley National Laboratory University Of California	Drawn by NAL Date 11/14/2011 Checked by JRW Date 11/14/2011 Approved by JRW Date 11/14/2011 CAD file path Title: GROUND FLOOR FRAMING PLAN Scale: 1/8" = 1'-0" Sheet no: S2.1 Project No: 6947816 Project ID: FNO100
Architect	Consulting Firm	Consulting A/E Firm	Professional Seal (if revision applies only to revised work)	Issue (Progress, estimate, bid, construction, conformed, revision, as-built)	Revision number Drawn by Checked by Approved by Date Remarks	LAWRENCE BERKELEY NATIONAL LABORATORIES FACILITIES DIVISION	ORIGINAL SHEET - Arch

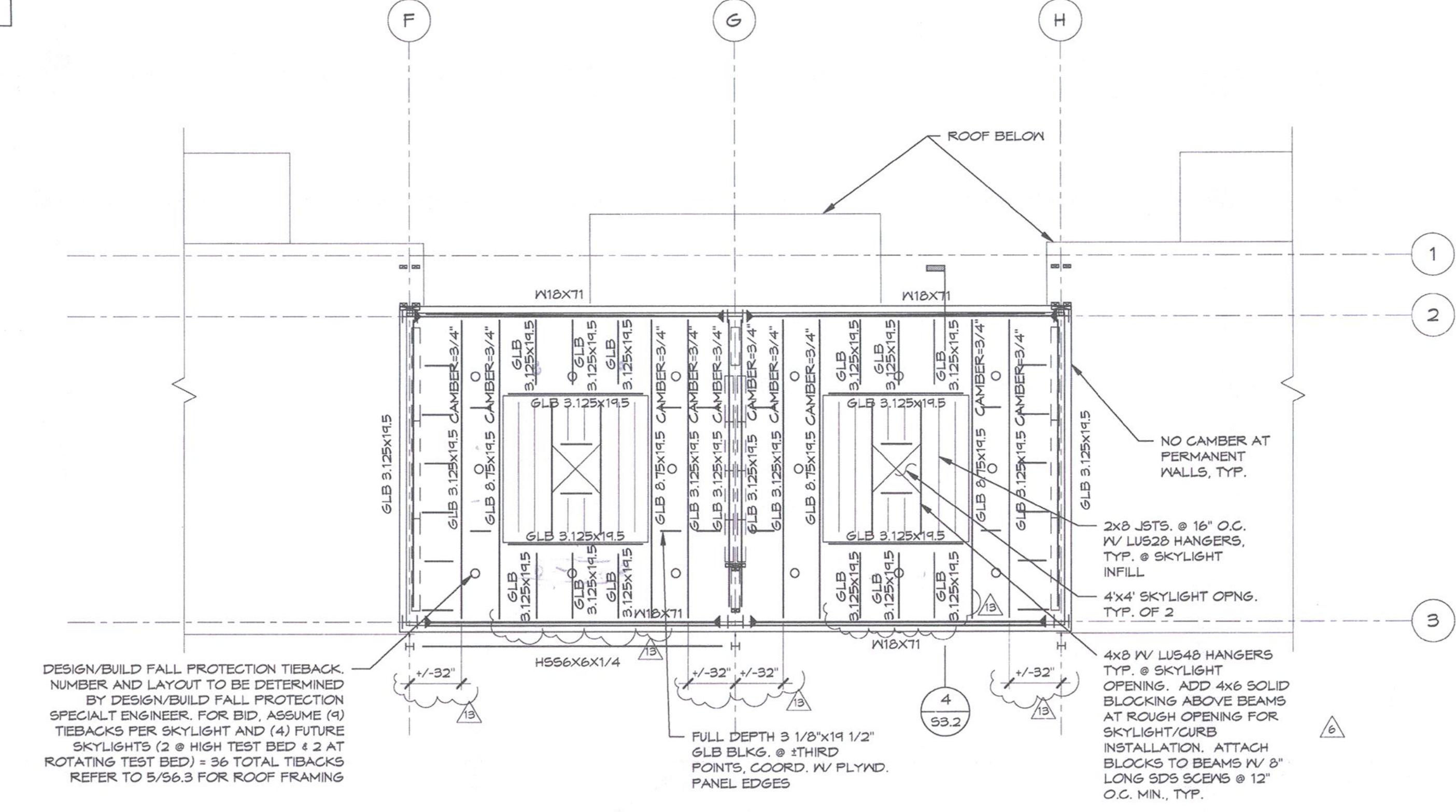
SK-1 RFI 114



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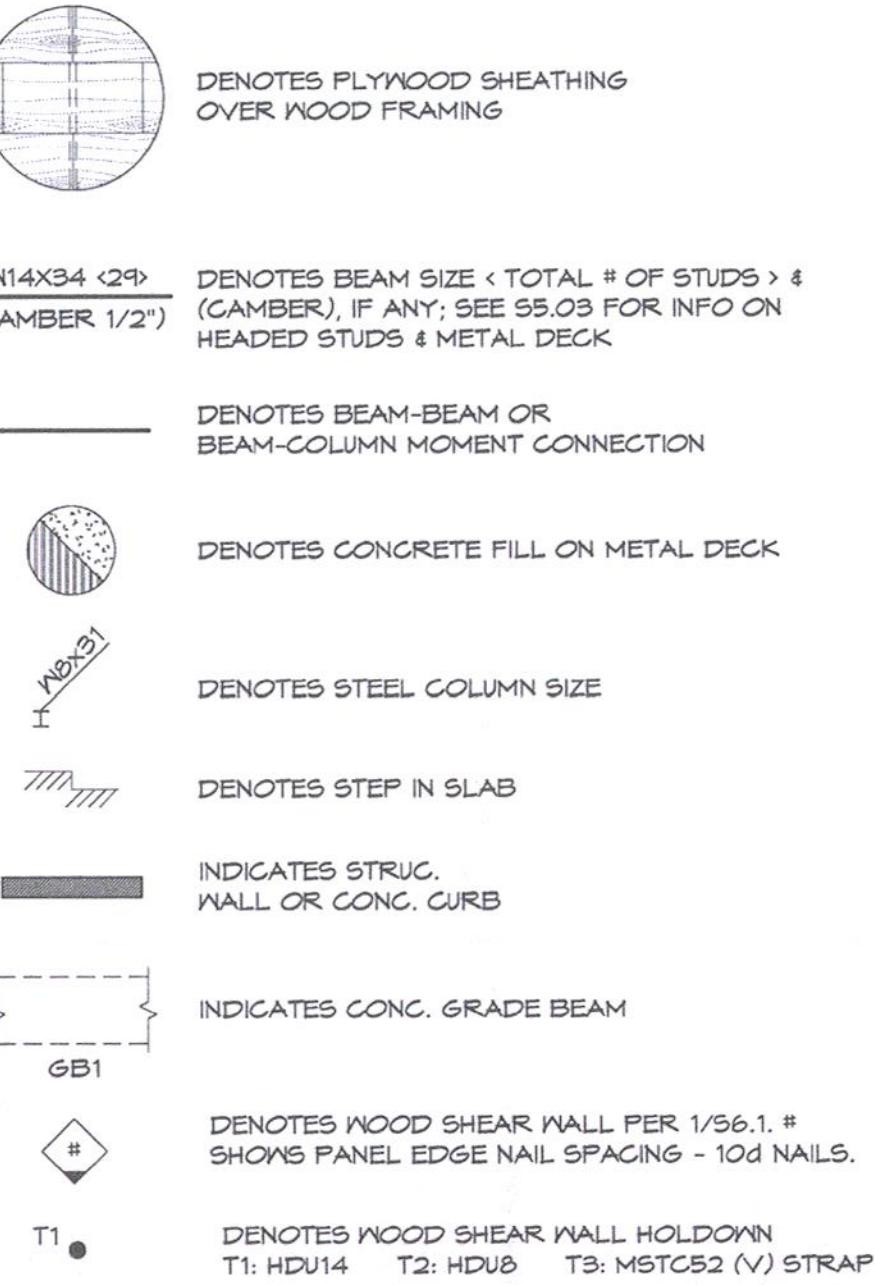
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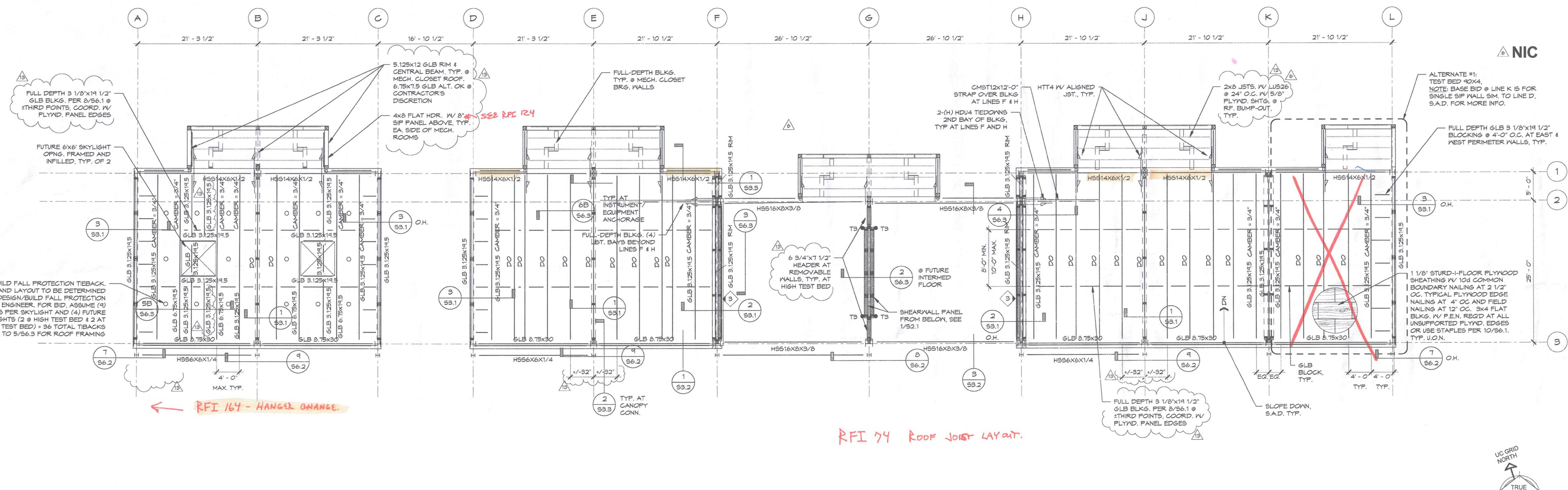
PLAN NOTES:

- SEE SHEETS S1.1 FOR STRUCTURAL NOTES.
 - SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, NON-STRUCTURAL PARTITIONS, AND FINISH FLOOR ELEVATIONS.
 - ELEVATION DATUM 0'-0" = ARCH. FINISH FLOOR
T.O.C. = 753'-0"
 - ALL STRUCTURAL STEEL IS PART OF THE SRSS

LEGEND:



2 TALL TEST BED HIGH ROOF FRAMING PLAN



1 LOW ROOF FRAMING PLAN

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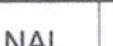
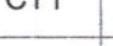
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510 549-1906 510 549-1912 fax

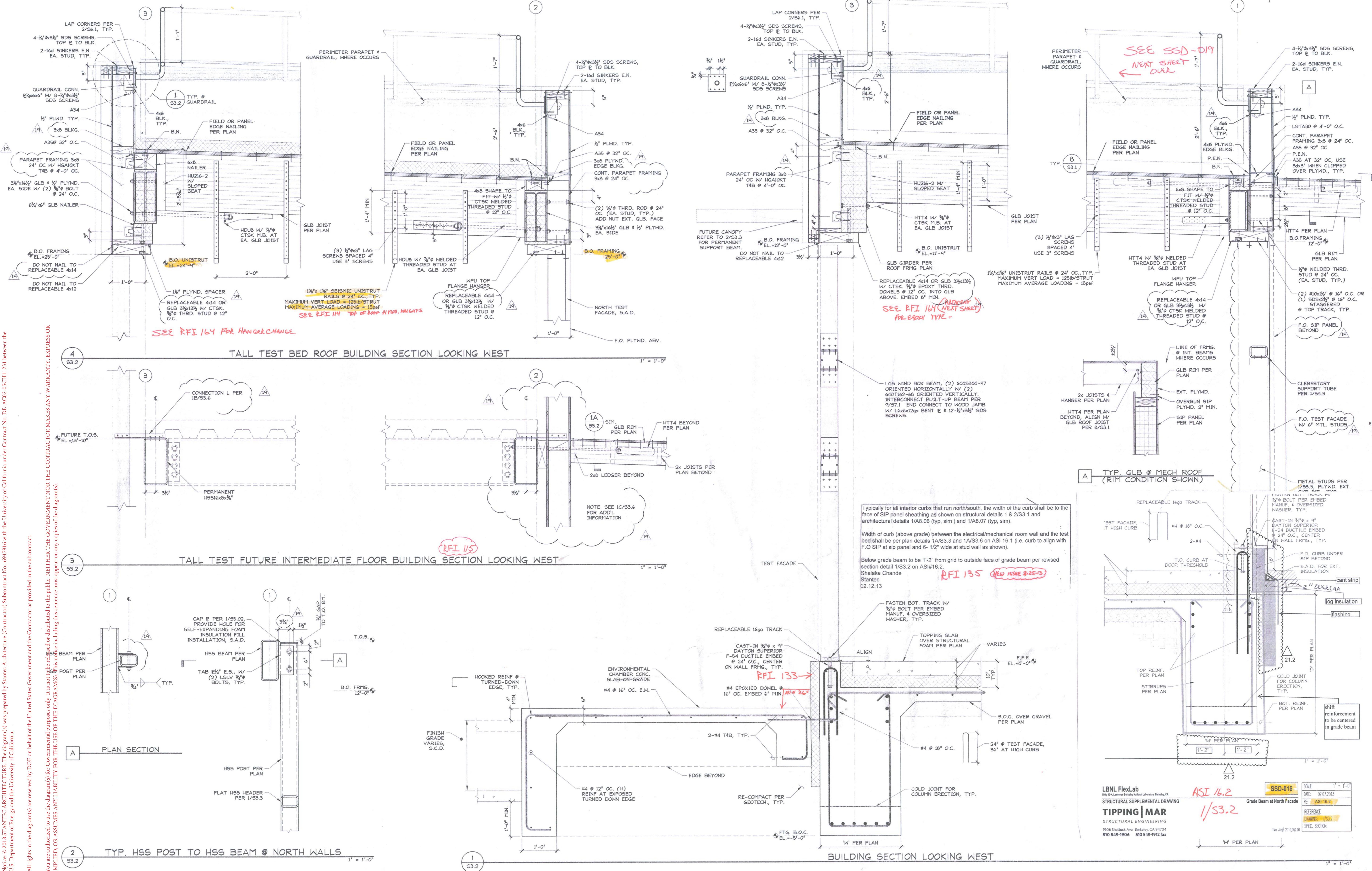
TM PROJECT NO.: 2010,062

A circular registration stamp for Steven B. Tipping. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STRUCTURAL ENGINEER" at the bottom. The center of the stamp contains the name "STEVEN B. TIPPING", the number "No. 2257", and the expiration date "Exp. 12-31-11". The bottom half of the inner circle contains "STRUCTURAL" and "STATE OF CALIFORNIA". There are two five-pointed stars, one on each side of the word "STRUCTURAL". The entire stamp is surrounded by a decorative border.

10

09/19/20

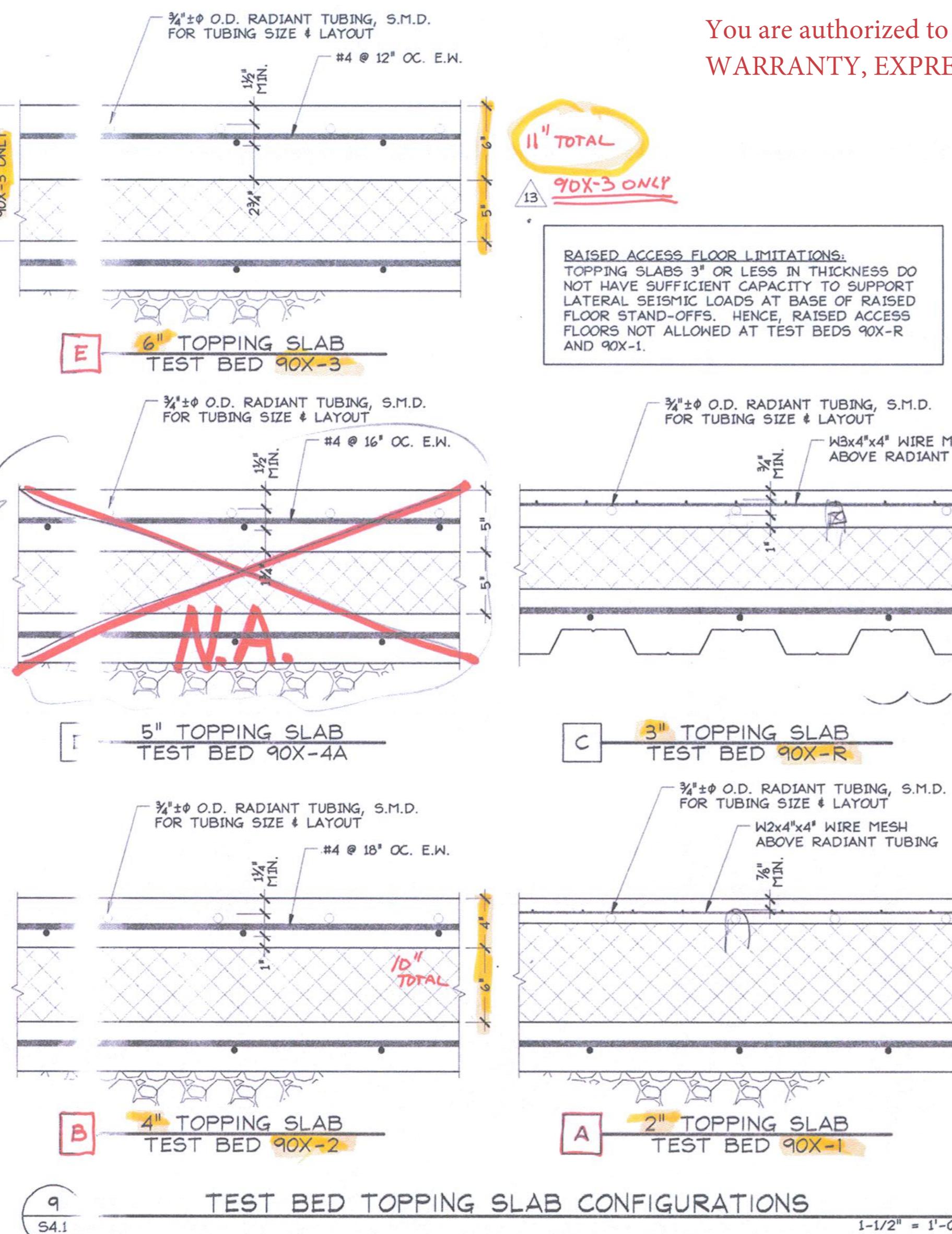
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	 2	NAL	JRW	JRW	01/19/2011	ADDENDUM 2, REVISION 2		Checked by	JRW	Date	11/14/2011	
	 6	CTT	JRW	JRW	05/11/2012	ISSUE FOR CONSTRUCTION		Approved by	JRW	Date	11/14/2011	
	 13	CTT	JRW	JRW	09/19/2012	ASI-7		CAD file path				
								Title:	ROOF FRAMING PLAN			
							Scale:	1/8" = 1'-0"		Sheet no:	S2.2	
							Project No:	6947816		4B90X5004		
							Project ID:	FNO100				
ess, estimate, bid, conformed, revision, as-built)	Revision number	Drawn by	Checked by	Approved by	Date	Remarks						



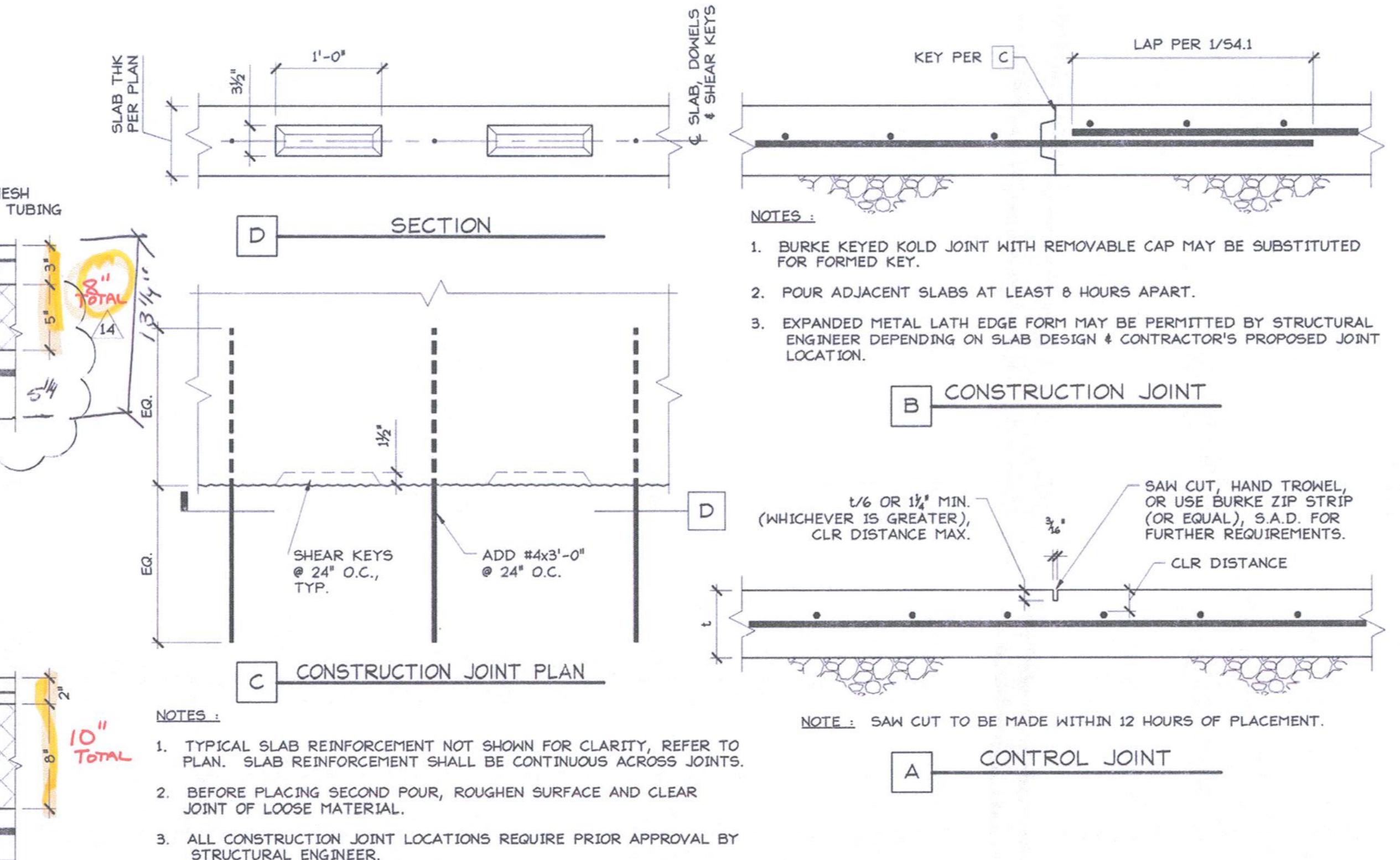
Architect	Consulting Firm	Consulting A/E Firm	Professional Seal (If Revision applies only to revised work)	Issue (Progress, estimate, bid, construction, conformed, revision, as-built)	Revision number	Drawn by	Checked by	Approved by	Date	Remarks	Project name	Drawn By	NAL	Date
Stantec		TIPPING MAR STRUCTURAL ENGINEERING 1906 Shattuck Ave Berkeley, CA 94704 510 549-1906 510 549-1912 fax TM PROJECT NO.: 2010.062		ASI #14 01/17/2013	6 CTT 13 CTT 14 CTT 16 DN 18 DN 19 DN	JRW JRW JRW JRW JRW JRW	05/11/12 09/19/12 11/30/12 01/04/13 01/09/13 01/17/13	ASI-7 ASI-9 ASI-11 ASI-13 ASI-14	11/14/2011 11/14/2011 11/14/2011 11/14/2011 11/14/2011 11/14/2011	User Test Bed Facility (UTBF) Project Lawrence Berkeley National Laboratory University Of California	Checked By	JRW	Date 11/14/2011	
											LAWRENCE BERKELEY NATIONAL LABORATORIES FACILITIES DIVISION	Approved By	JRW	Date 11/14/2011
											Scale As Noted	Sheet no:	S3.2	Project No: 6947816 Project ID: FNO100

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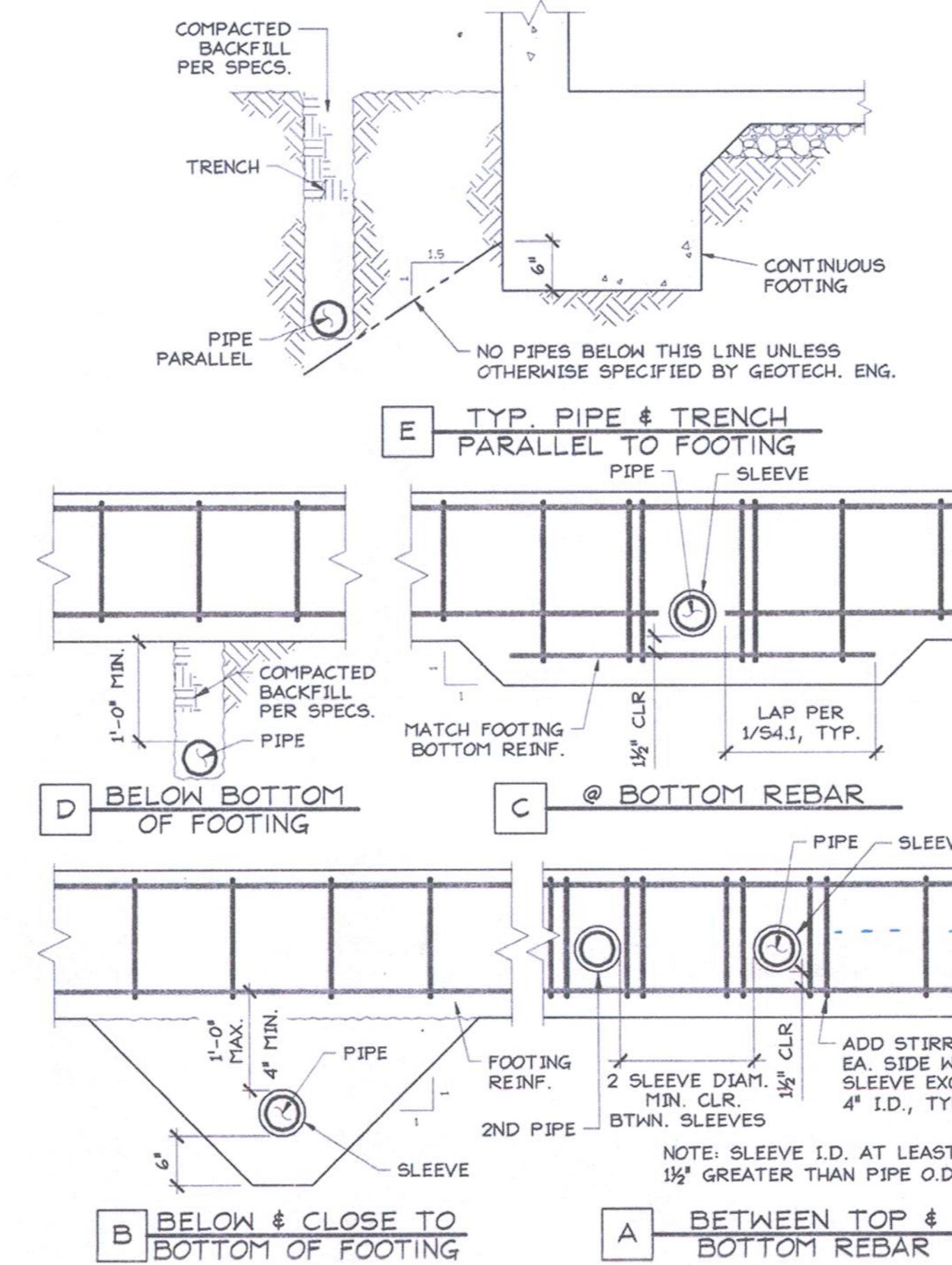
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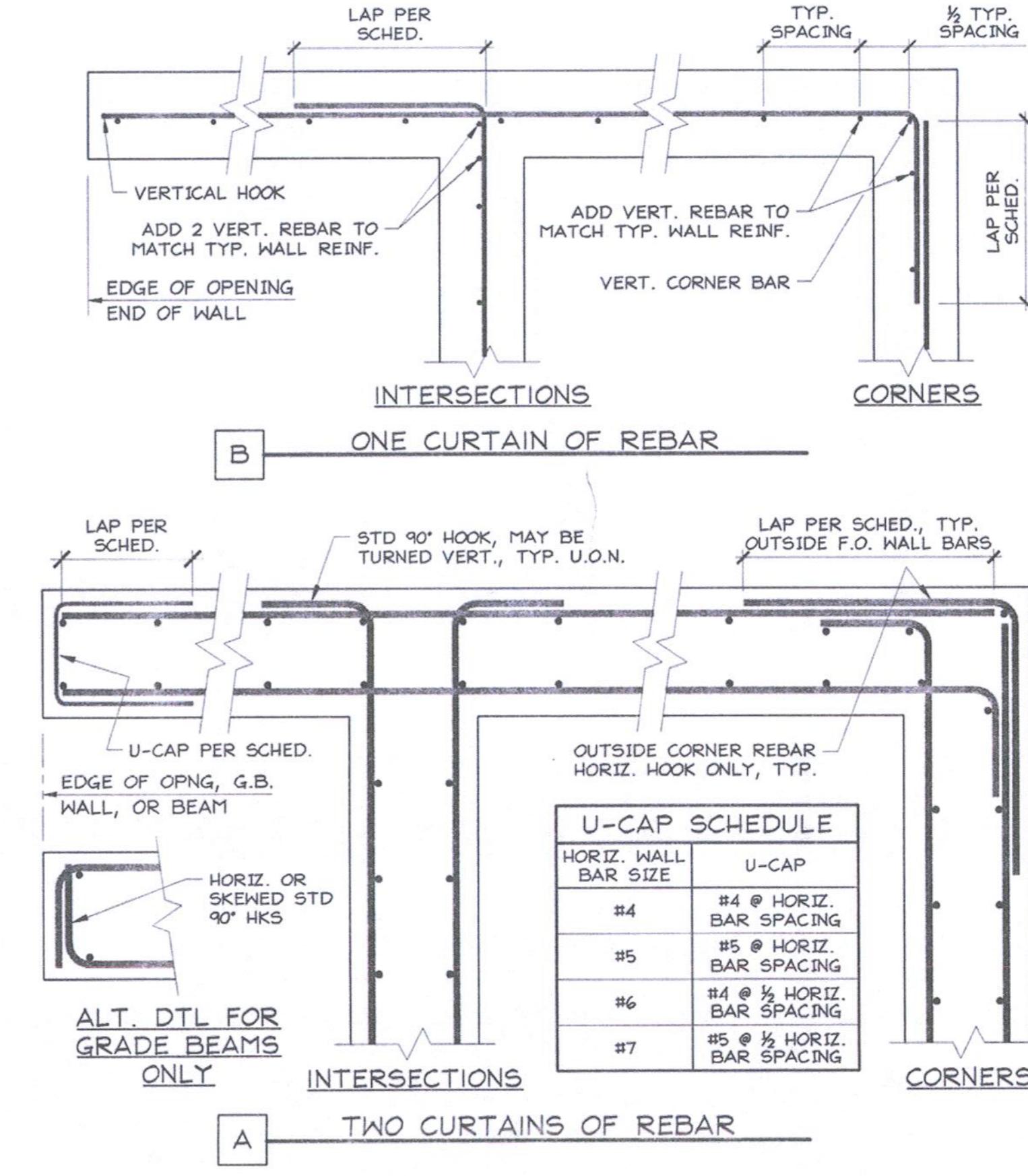
TEST BED TOPPING SLAB CONFIGURATIONS
1-1/2" = 1'-0"



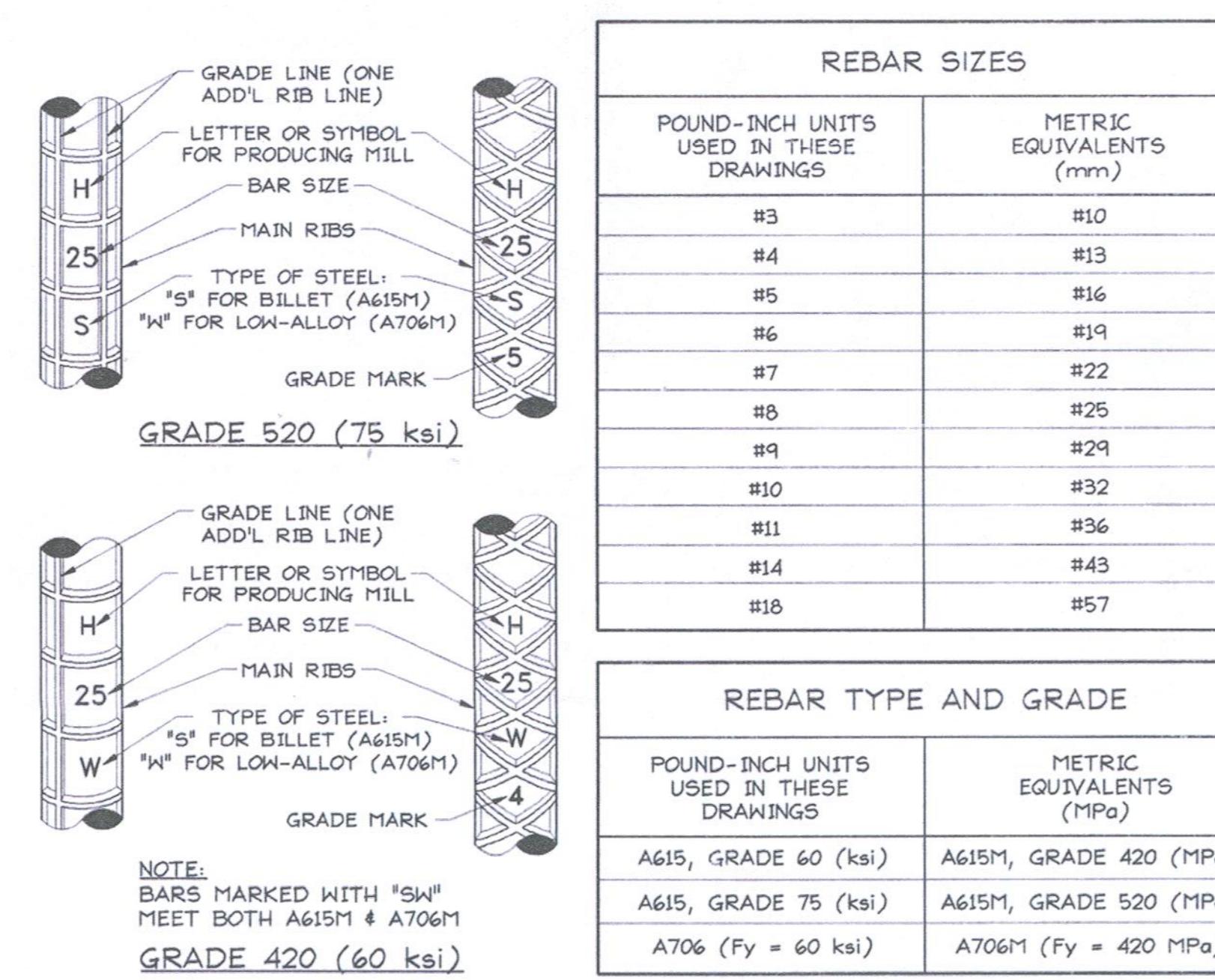
TYPICAL JOINTS IN CONCRETE SLAB-ON-GRADE
N.T.S.



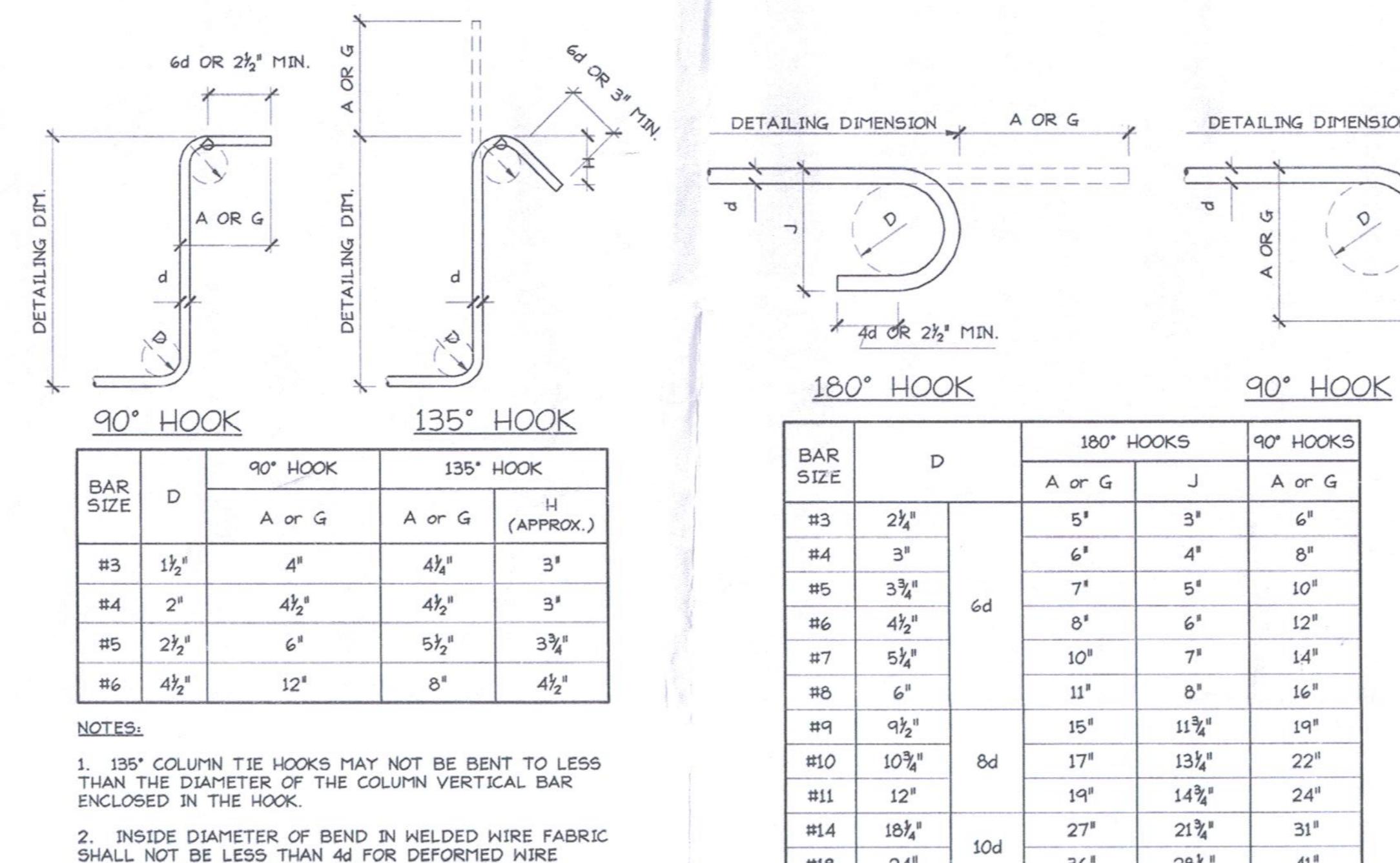
PIPES PENETRATING & ADJACENT TO GRADE BEAMS OR FOOTINGS
N.T.S.



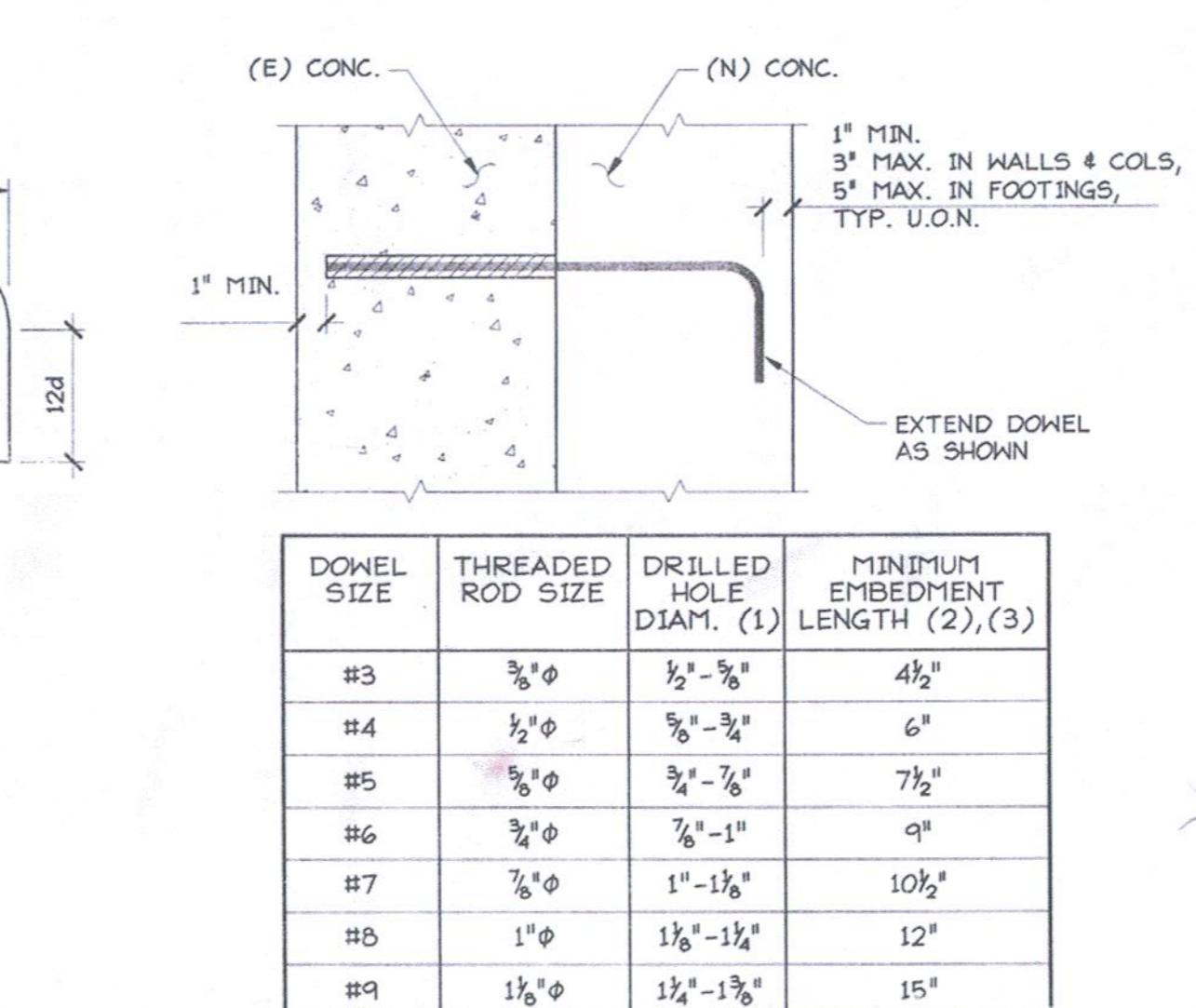
TYPICAL WALL, BEAM & GRADE BEAM
INTERSECTION, PLAN DETAIL
N.T.S.



REBAR METRIC MARKINGS & EQUIVALENTS
N.T.S.



STIRRUP & TIE BENDS
N.T.S.



TENSION LAP SPLICE SCHEDULE^{(1), (2), (4)}
N.T.S.

EPOXY GROUTED DOWEL
SCHEDULE
1'-0" = 1'-0"

BAR SIZE	HARDROCK ⁽⁵⁾ CONCRETE		
	VERT. C.I.P. BARS IN WALLS & COLS, HORIZ. SLAB BARS/ ALL SHOTCRETE BARS	HORIZ. BARS IN WALLS, BEAMS & COLLECTORS, ALL SHOTCRETE BARS	
#3	22"	28"	
#4	29"	37"	
#5	36"	47"	
#6	43"	56"	
#7	63"	81"	
#8	72"	93"	
#9	81"	105"	
#10	91"	118"	
#11 ⁽³⁾	101"	131"	

NOTES:
1. THE LAP LENGTHS LISTED ABOVE ARE APPLICABLE UNDER THE FOLLOWING CONDITIONS:
-CONCRETE STRENGTH F'c AT LEAST 3000 psi.
-BEAM & COLUMN BARS SPACED AT LEAST 2 DIAMETERS O.C.
-WALL & SLAB REBARS SPACED AT LEAST 3 DIAMETERS O.C.
FOR CONDITIONS OTHER THAN THOSE LISTED, CONTACT STRUCTURAL ENGINEER.

2. CLASS I LAP SPLICES ARE 75% OF THE LENGTHS SHOWN IN THE TABLE ABOVE. CLASS II LAP SPLICES MAY ONLY BE USED WHERE SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS. (CLASS II IS PERMITTED WHERE REBAR IS LESS THAN 50% STRESSED.) CLASS I LAP SPLICES SHALL BE STAGGERED BY AT LEAST ONE SPLICE LENGTH.

3. BARS LARGER THAN #11 SHALL BE MECHANICALLY COUPLED; SMALLER BARS MAY ALSO BE MECHANICALLY COUPLED. COUPLERS SHALL BE STAGGERED AT LEAST 30".

4. WHERE A LARGER BAR LAPS A SMALLER BAR, THE SMALLER BAR LAP APPLIES, U.O.N.

5. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY TABULATIONS BY 1.3 TIMES.

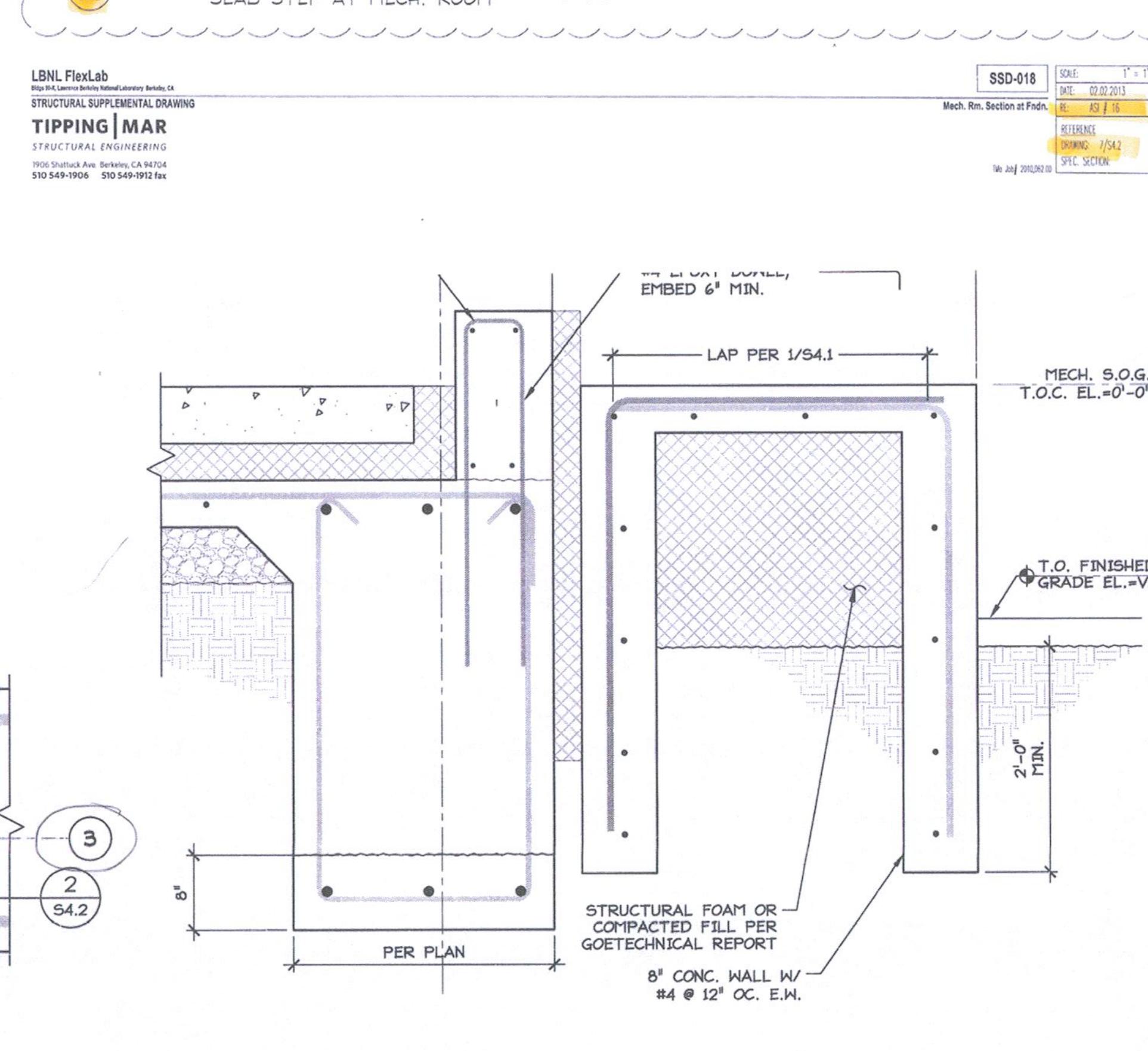
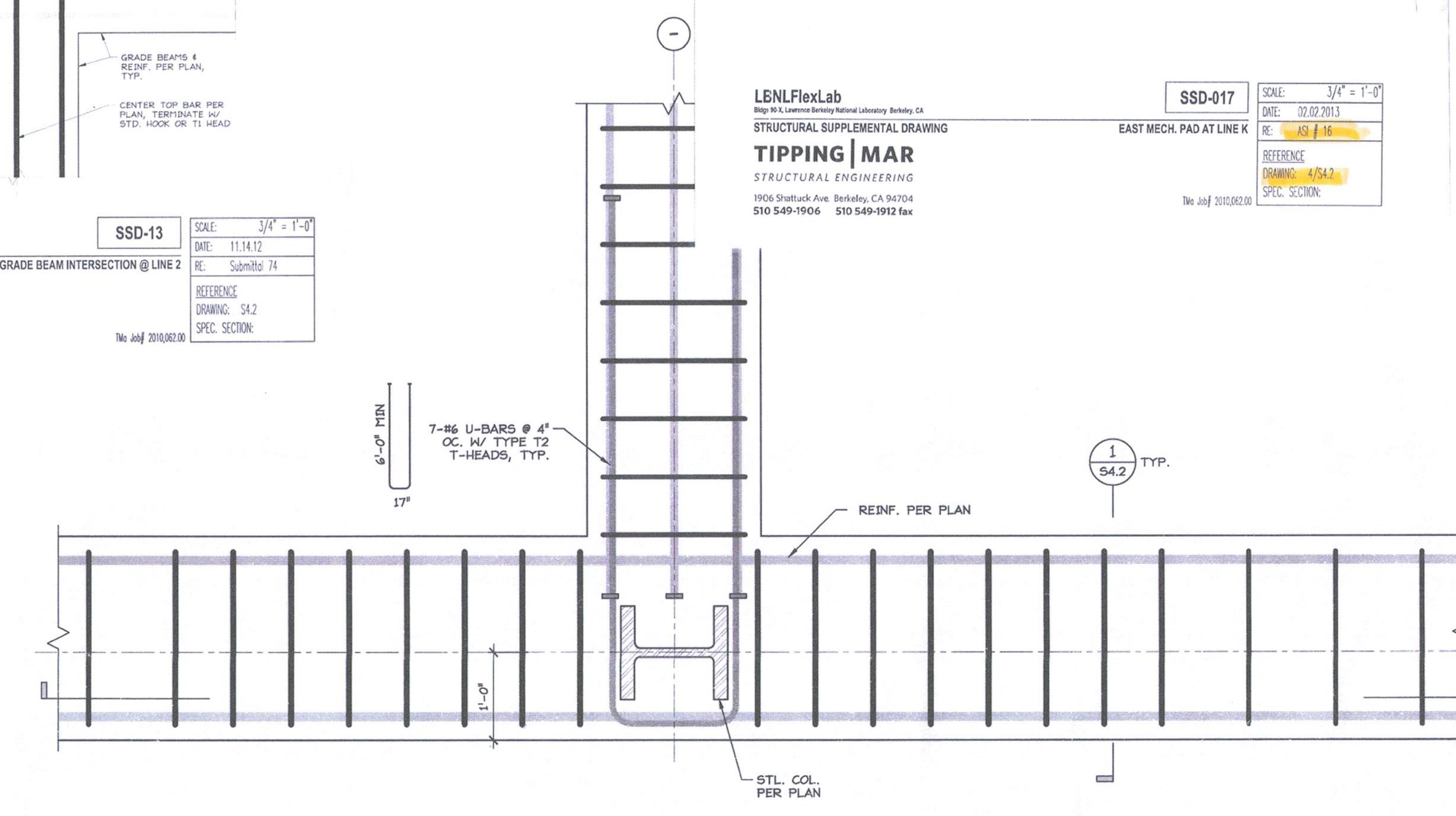
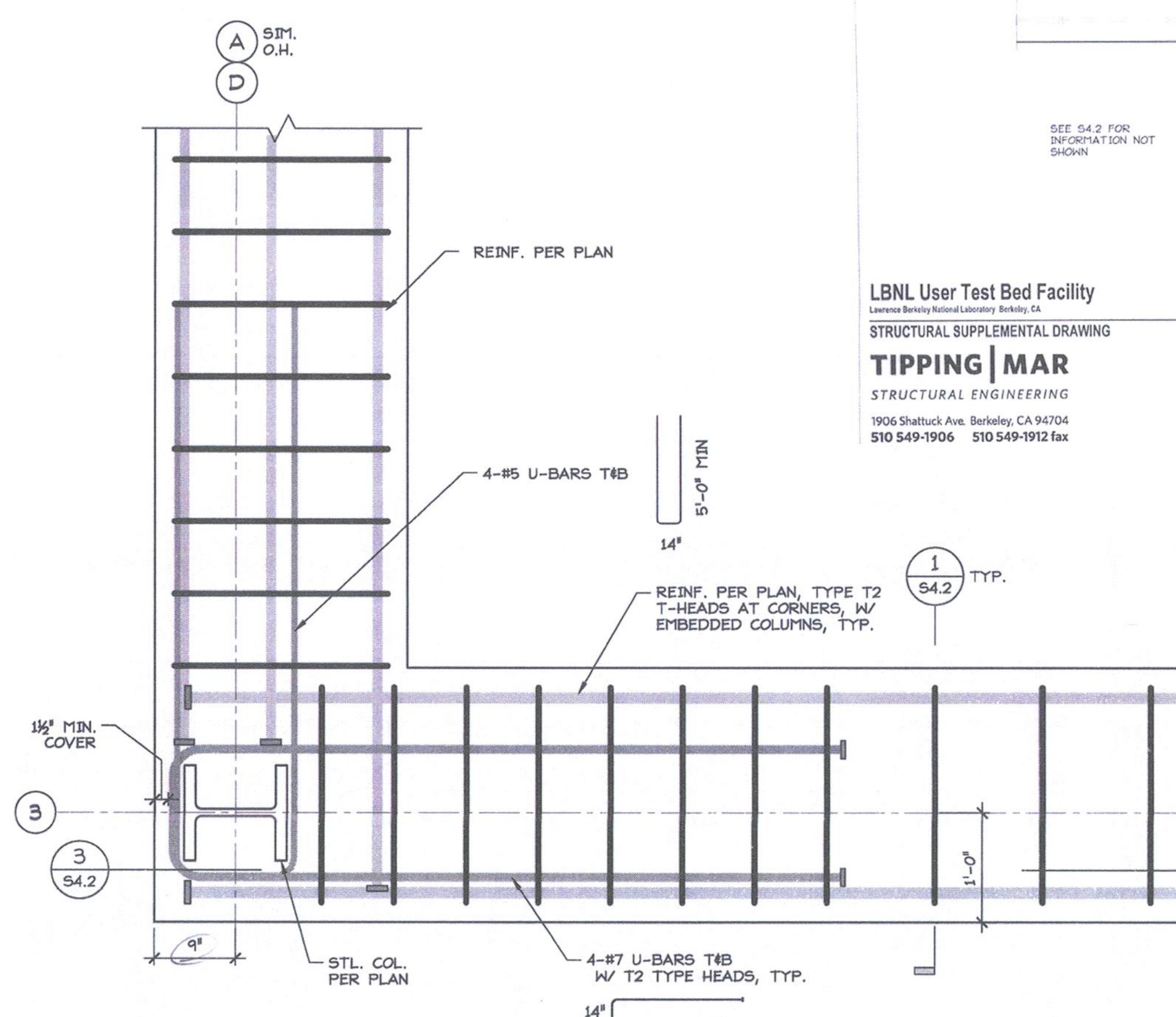
LAP SPLICE SCHEDULE
1'-0" = 1'-0"

Project name User Test Bed Facility (UTBF) Project Lawrence Berkeley National Laboratory University Of California	Drawn By NAL	Date 11/14/2011
	Checked By JRW	Date 11/14/2011
	Approved By JRW	Date 11/14/2011
	CAD file path 062S4-1	
	Title: TYPICAL CONCRETE DETAILS	
Scale As Noted	Sheet no:	S4.1
Project No: 6947816	Project ID: FNO100	4B90XS013

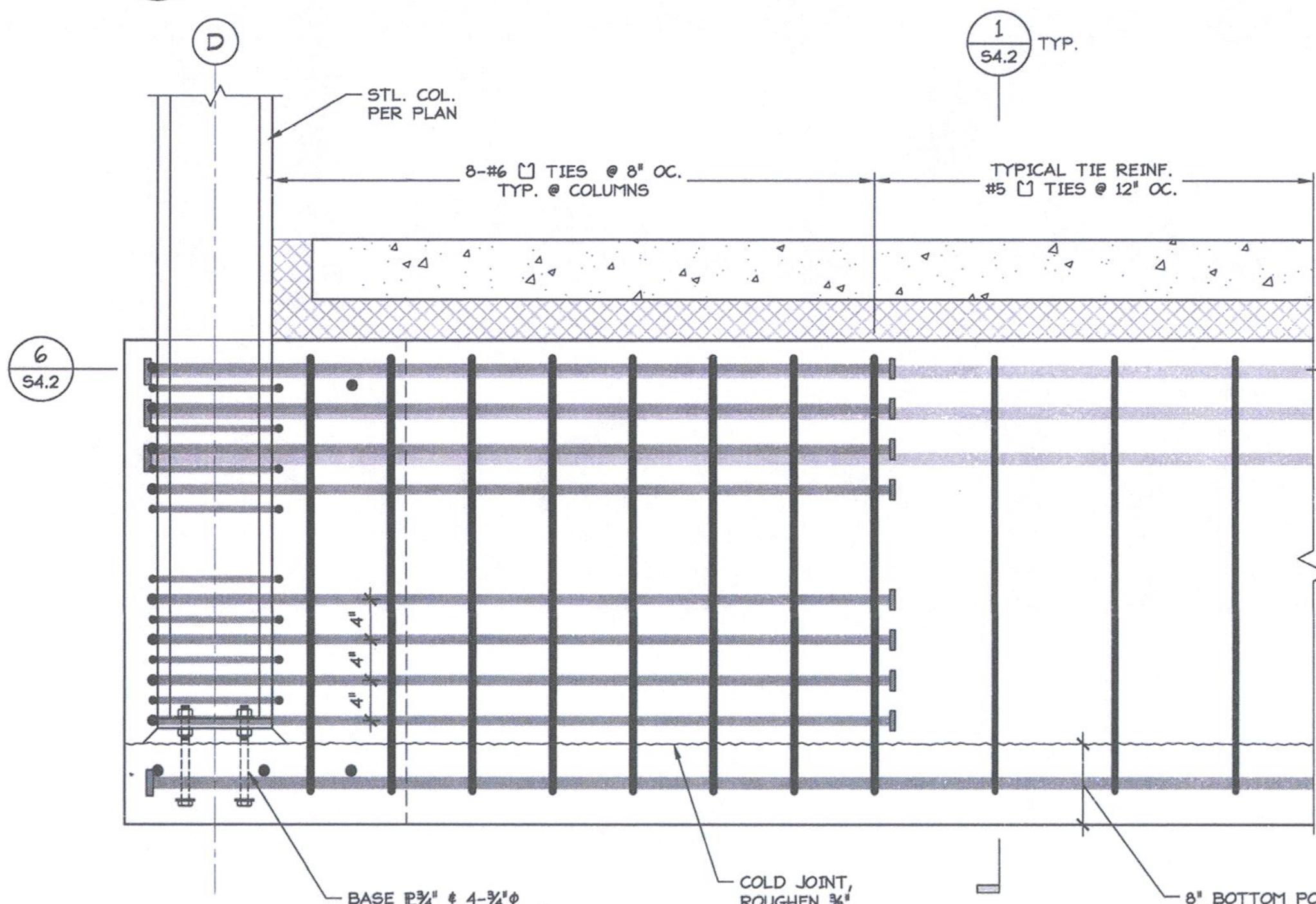
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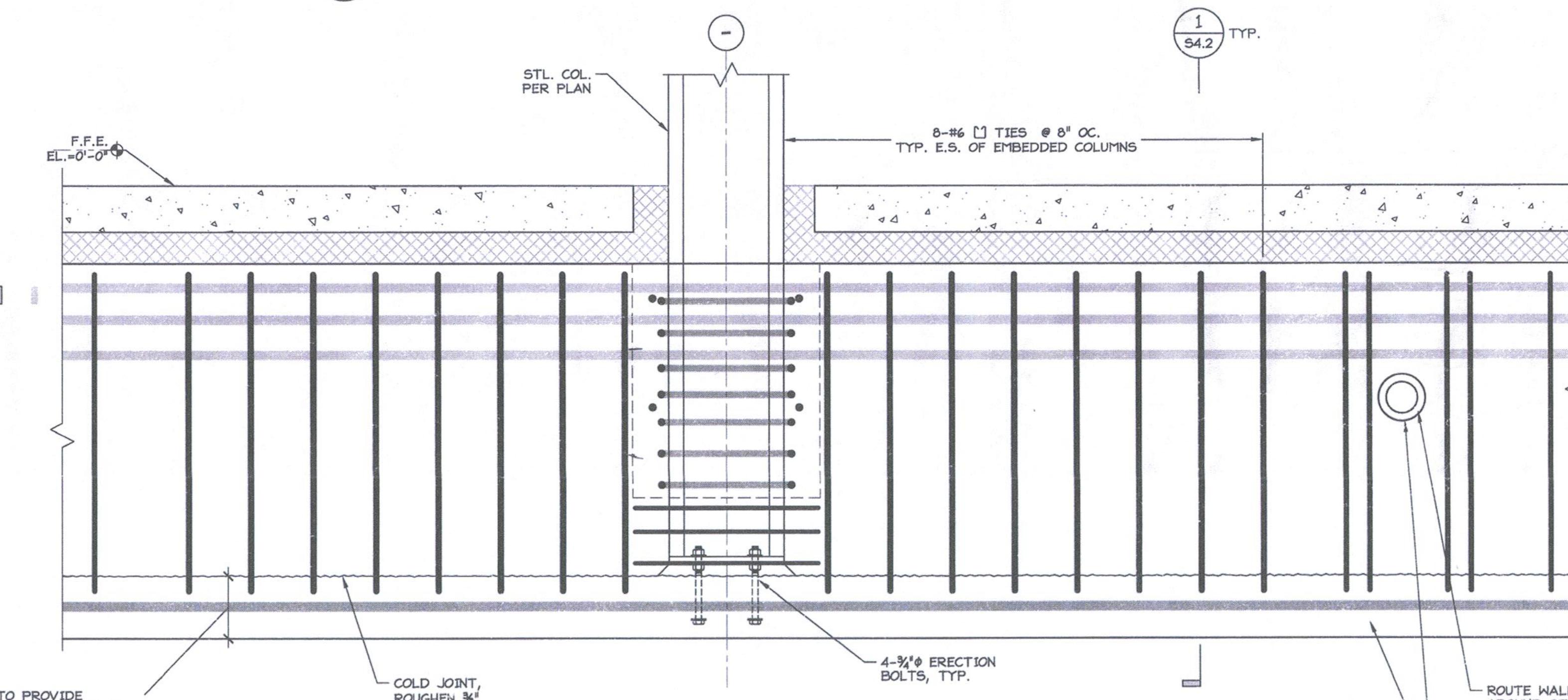
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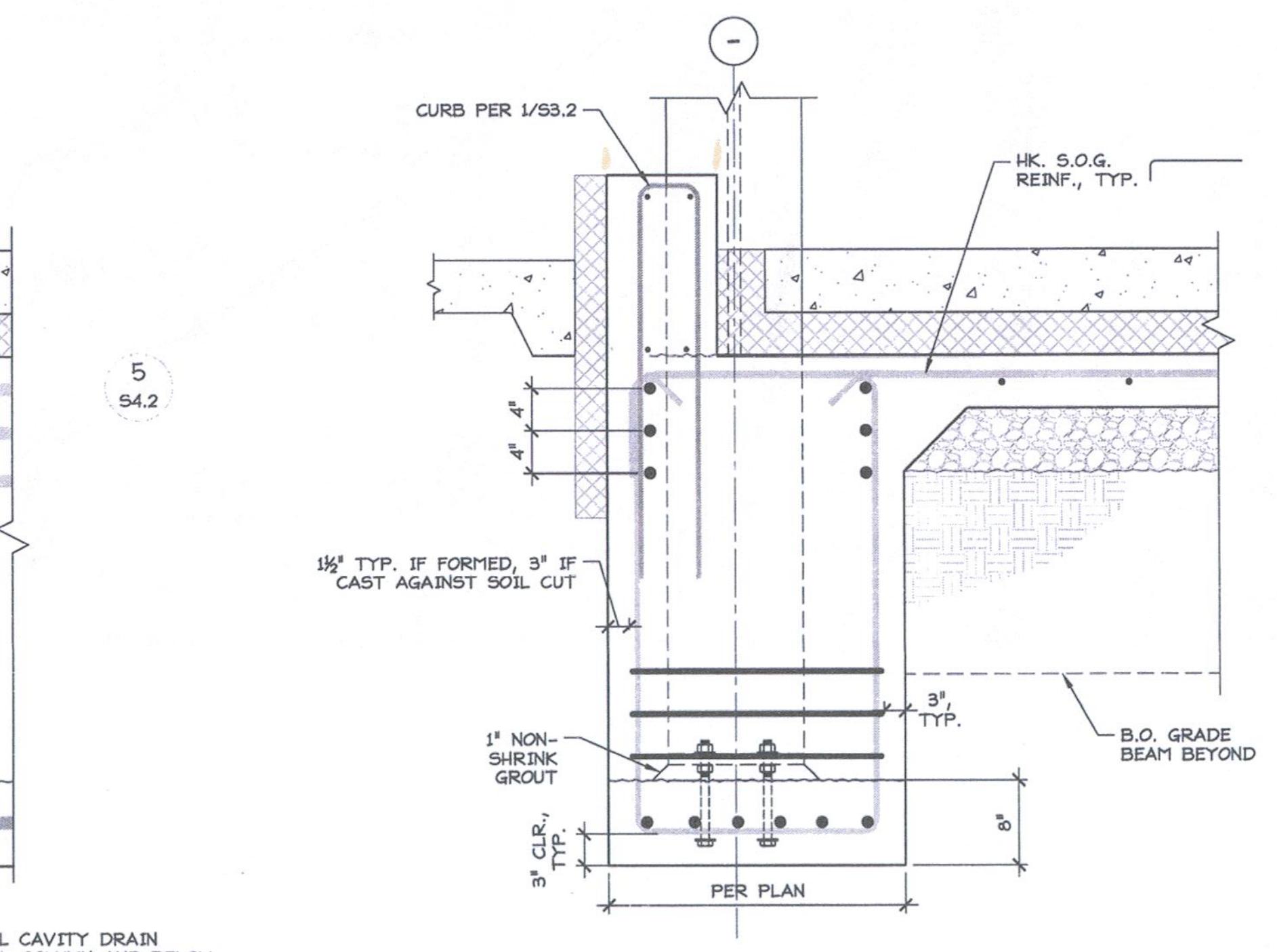
**TYPICAL GRADE BEAM AT CORNER EMBEDDED
WIDE FLANGE COLUMN - PLAN**



**TYPICAL GRADE BEAM AT EMBEDDED WIDE FLANGE COLUMN
PLAN**



**TYP. MECH. S.O.G. SECTION
AT LINE L**



**TYPICAL GRADE BEAM AT CORNER EMBEDDED
WIDE FLANGE COLUMN - ELEVATION**



**TYPICAL GRADE BEAM AT EMBEDDED WIDE FLANGE COLUMN
ELEVATION**



**TYP. GRADE BEAM
SECTION**



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TM PROJECT NO.: 2010.062



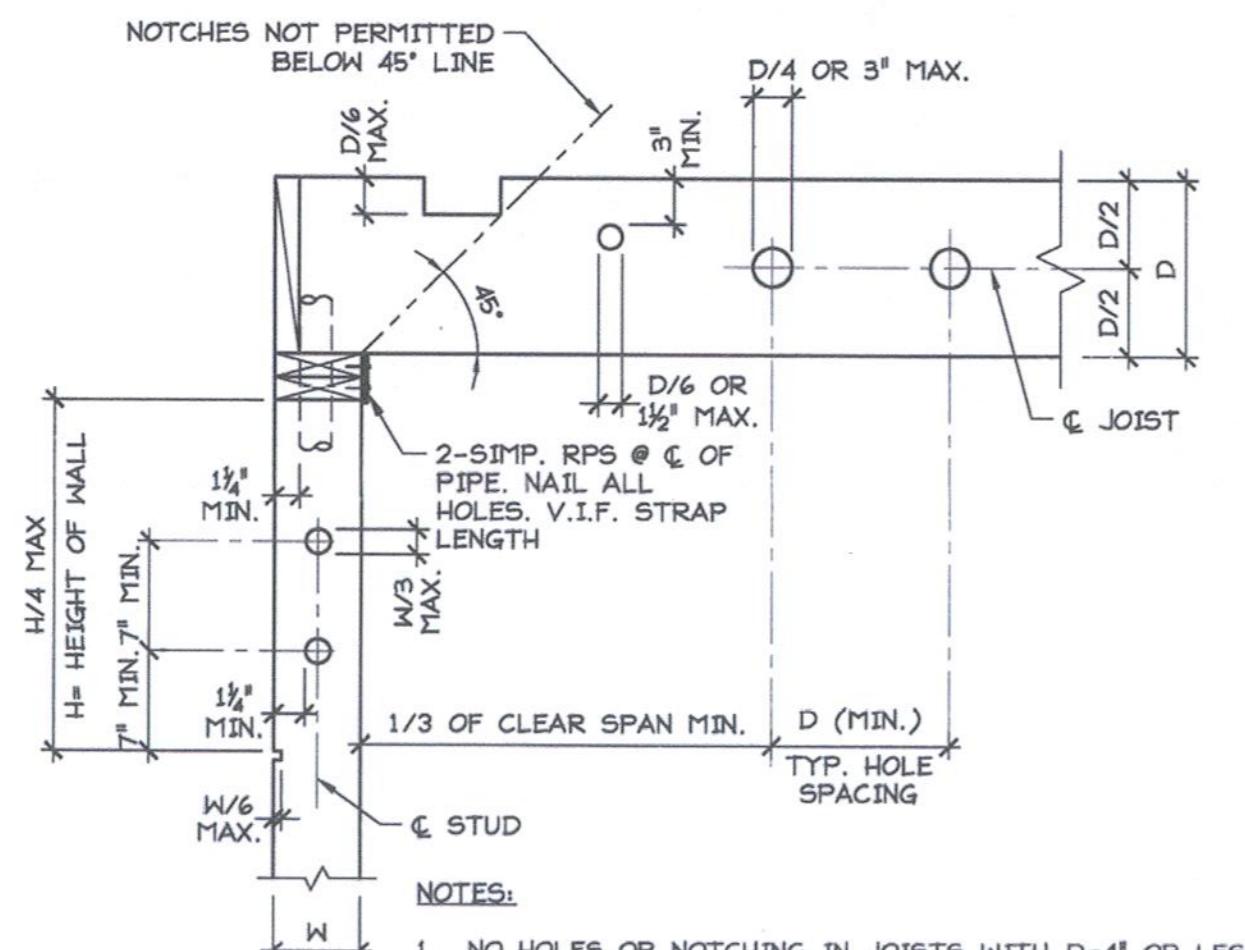
ISSUE FOR CONSTRUCTION
05/11/2012

Issue (Progress, estimate, bid, construction, conformed, revision, as-built)
Revision number Drawn by Checked by Approved by Date Remarks

1	NAL	JRW	JRW	01/13/11	ADDENDUM 1
2	JRW	JRW	JRW	01/19/11	ADDENDUM 2, REVISION 2
3					
4					

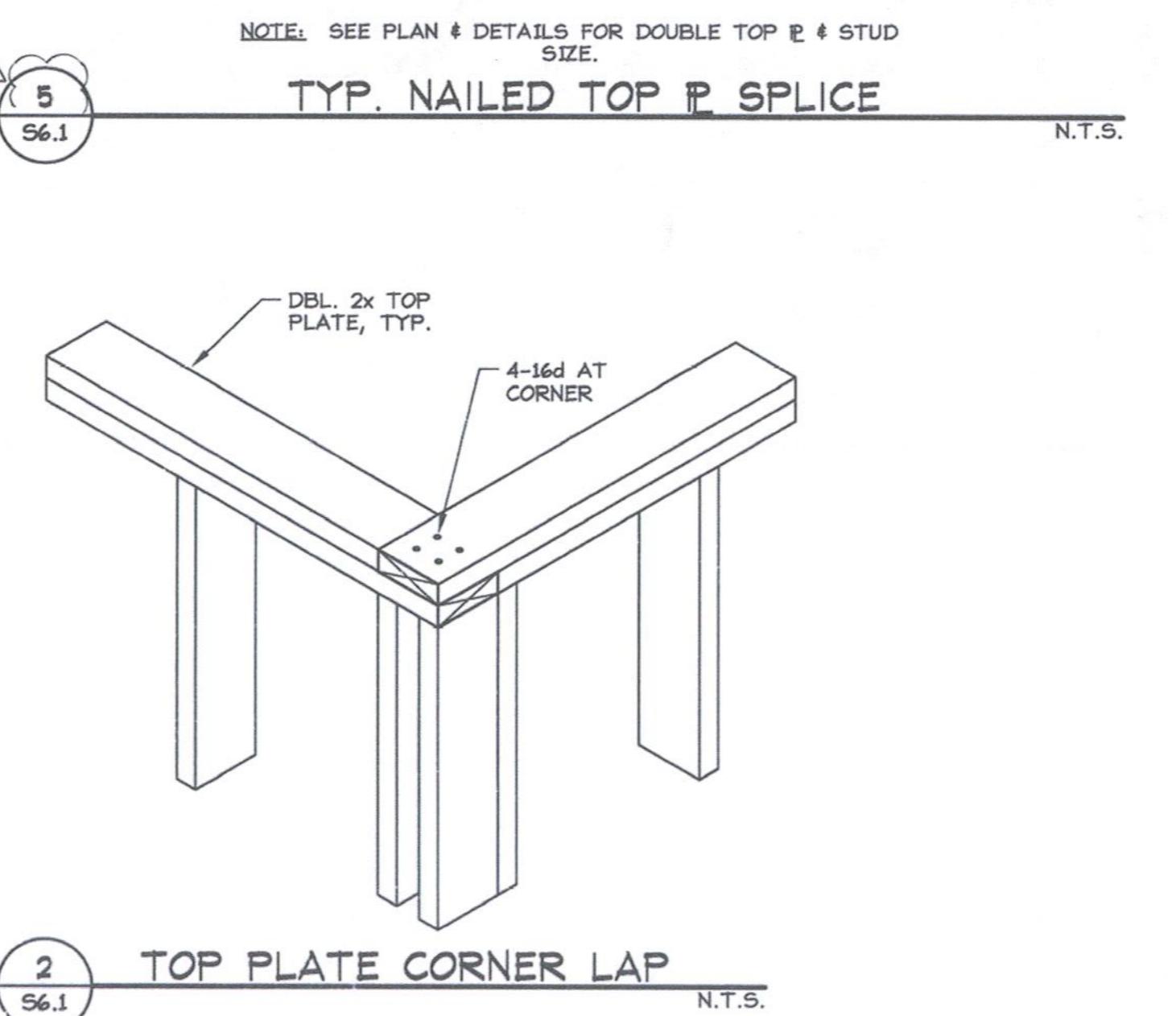
Project name
User Test Bed Facility (UTBF) Project
Lawrence Berkeley National Laboratory
University Of California

Drawn By NAL Date 11/14/2011
Checked By JRW Date 11/14/2011
Approved By JRW Date 11/14/2011
CAD file path 062S4-2
Title: CONCRETE DETAILS
Scale 1" = 1'-0" Sheet no:
Project No: 6947816
Project ID: FNO100
S4.2
4B90XS014

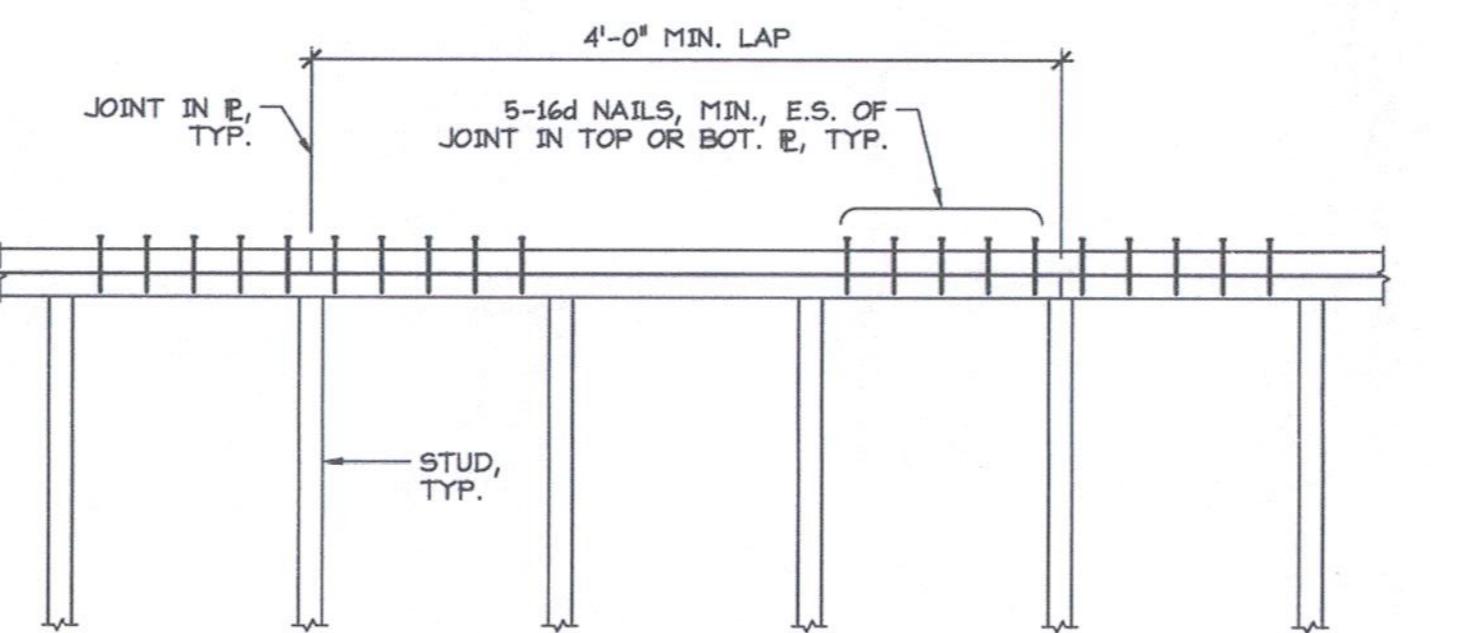
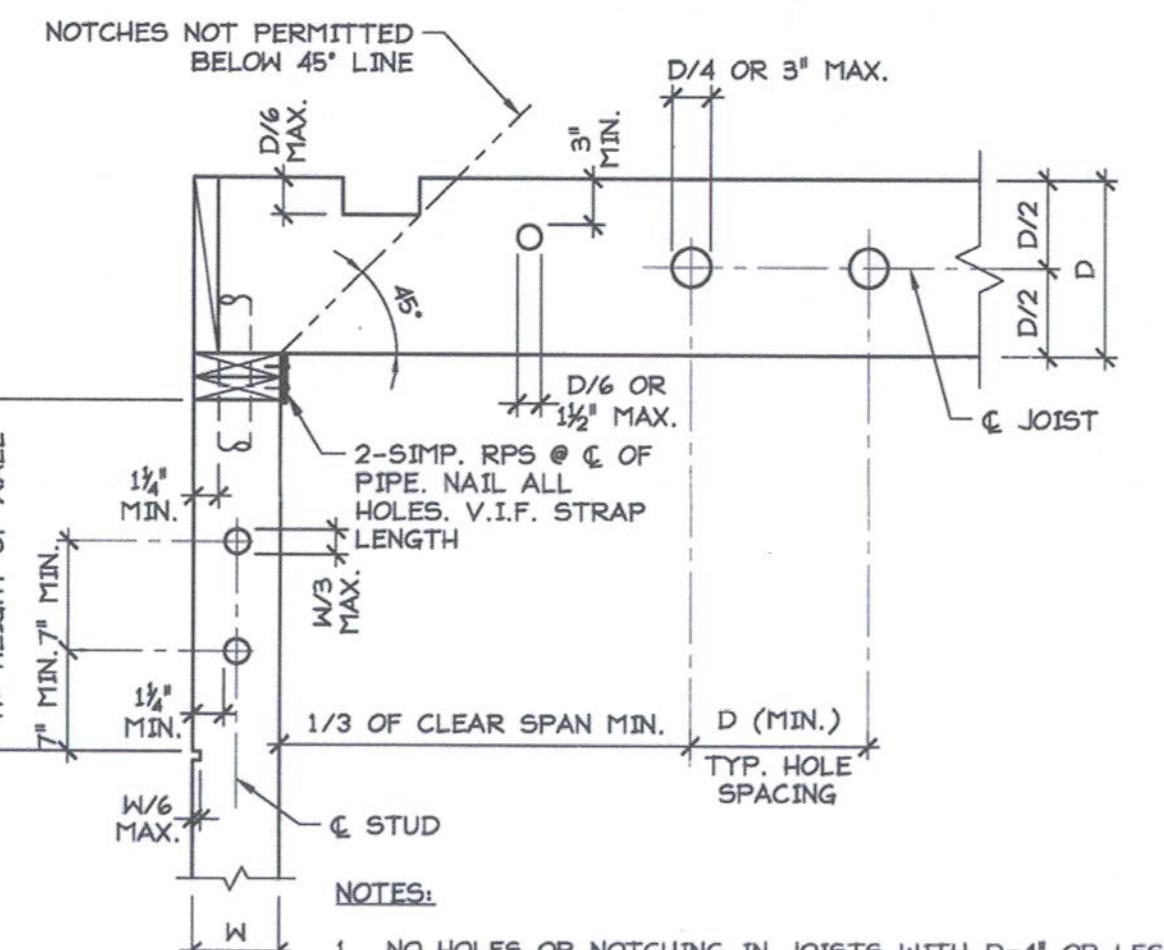


ALLOWABLE HOLES & NOTCHES IN
SAWN LUMBER JOISTS & STUDS
NOT TO SCALE

3 TYP. SILL BOLTING LAYOUT
NOT TO SCALE

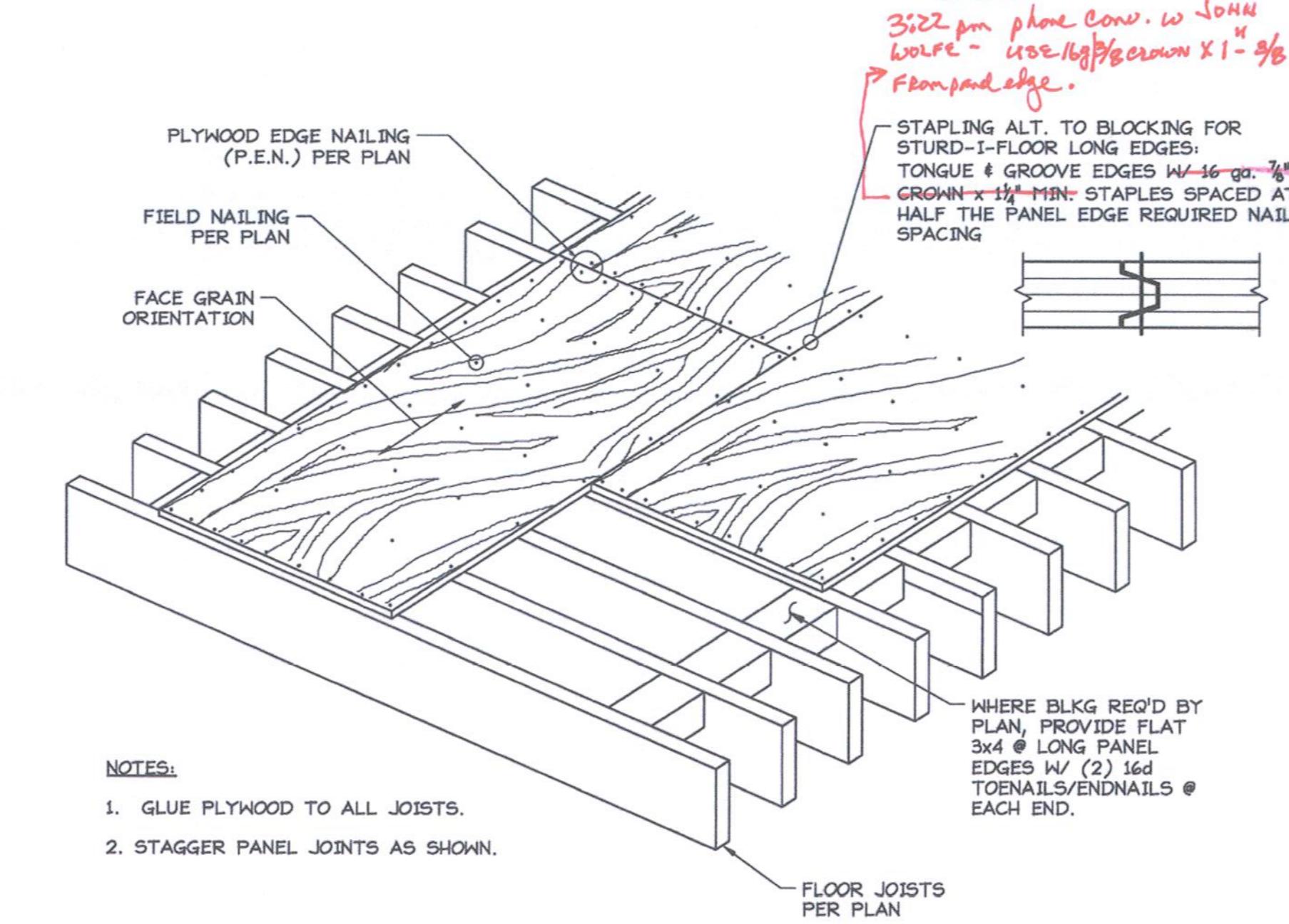


2 TYP. TOP PLATE CORNER LAP
N.T.S.



8 TYP. CONT. SOLID GLULAM BLOCKING
1' = 1'-0"

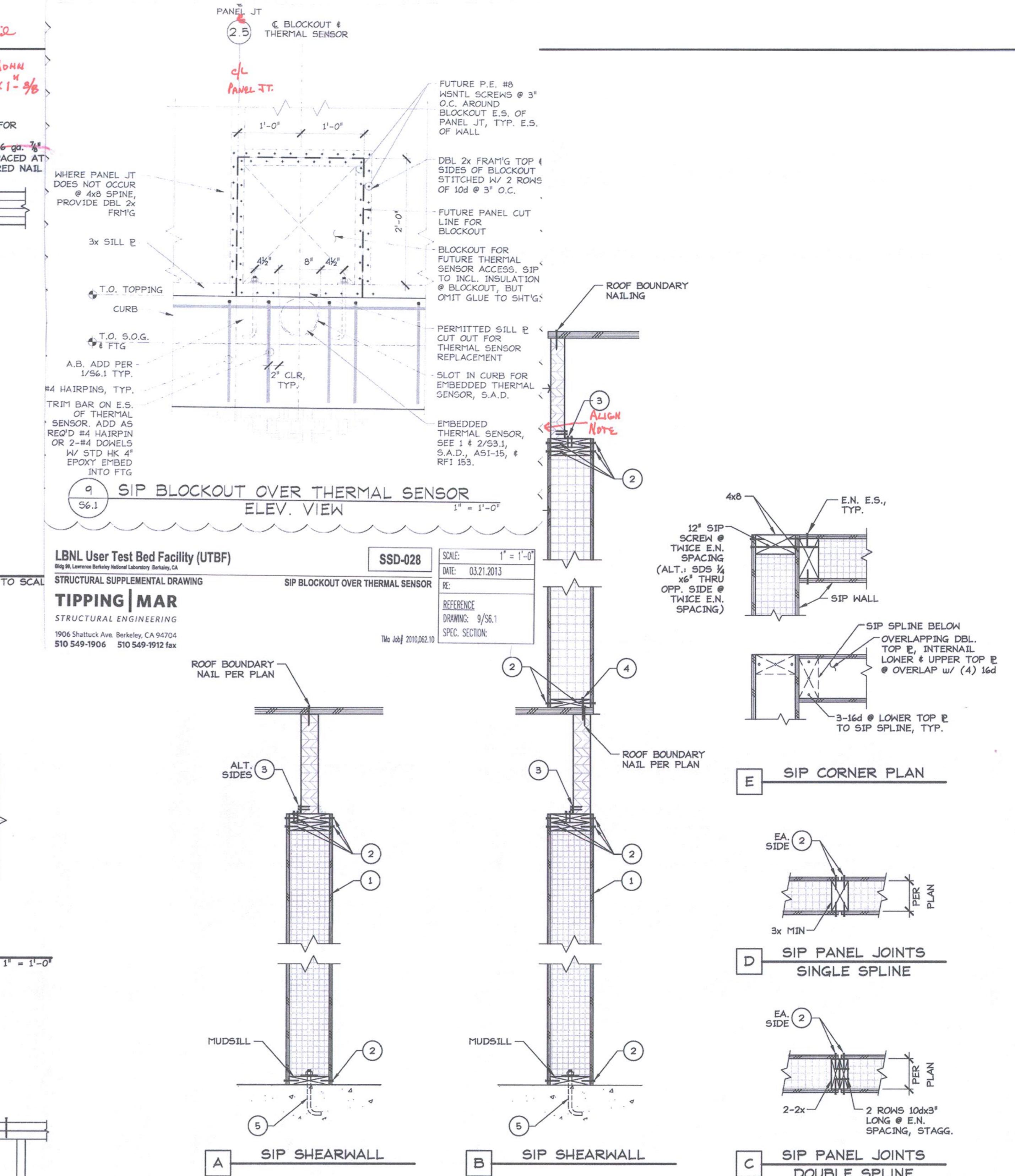
11 NORTHERN CORNER PLAN DETAIL
@ LINES F & H
1' = 1'-0"



ROOF PLYWOOD NAILING
NOT TO SCALE

10

56.1



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TM PROJECT NO.: 2010.062



ASI-7

09/19/2012

Architect

Consulting Firm

Consulting A/E Firm

Professional Seal (If Revision applies only to revised work)

Issue (Progress, estimate, bid, construction, conformed, revision, as-built)

Revision number Drawn by Checked by Approved by Date Remarks

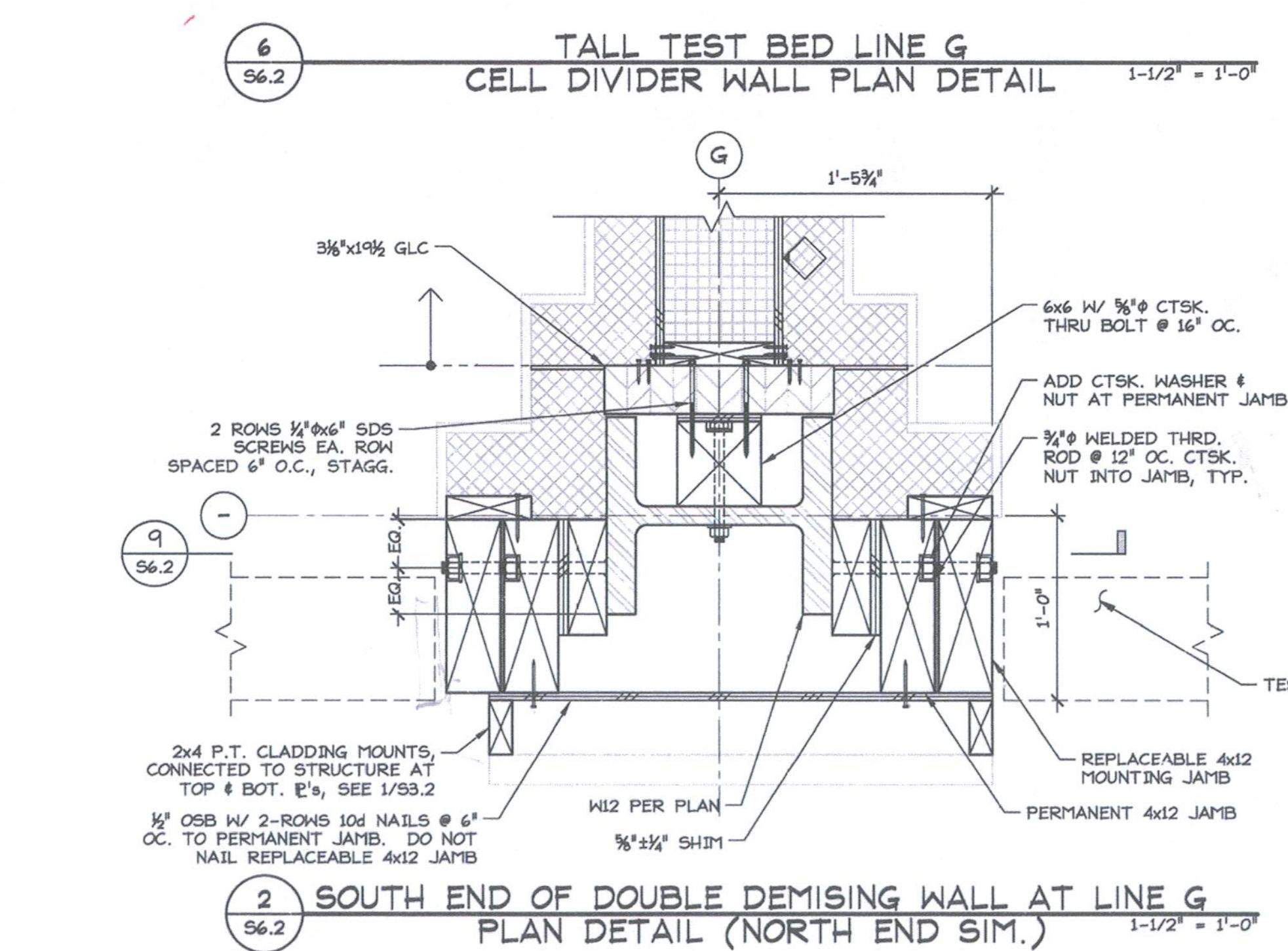
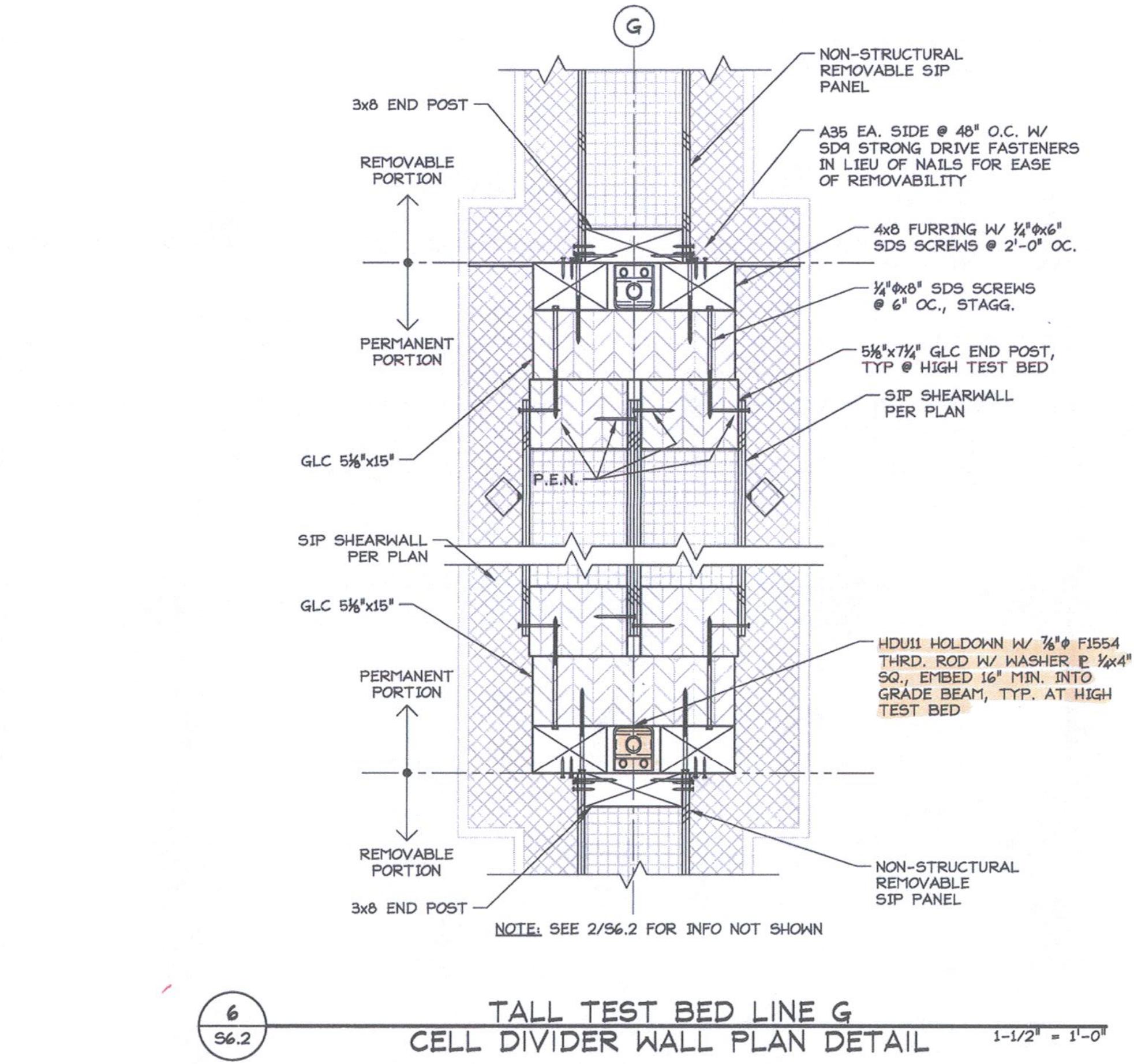
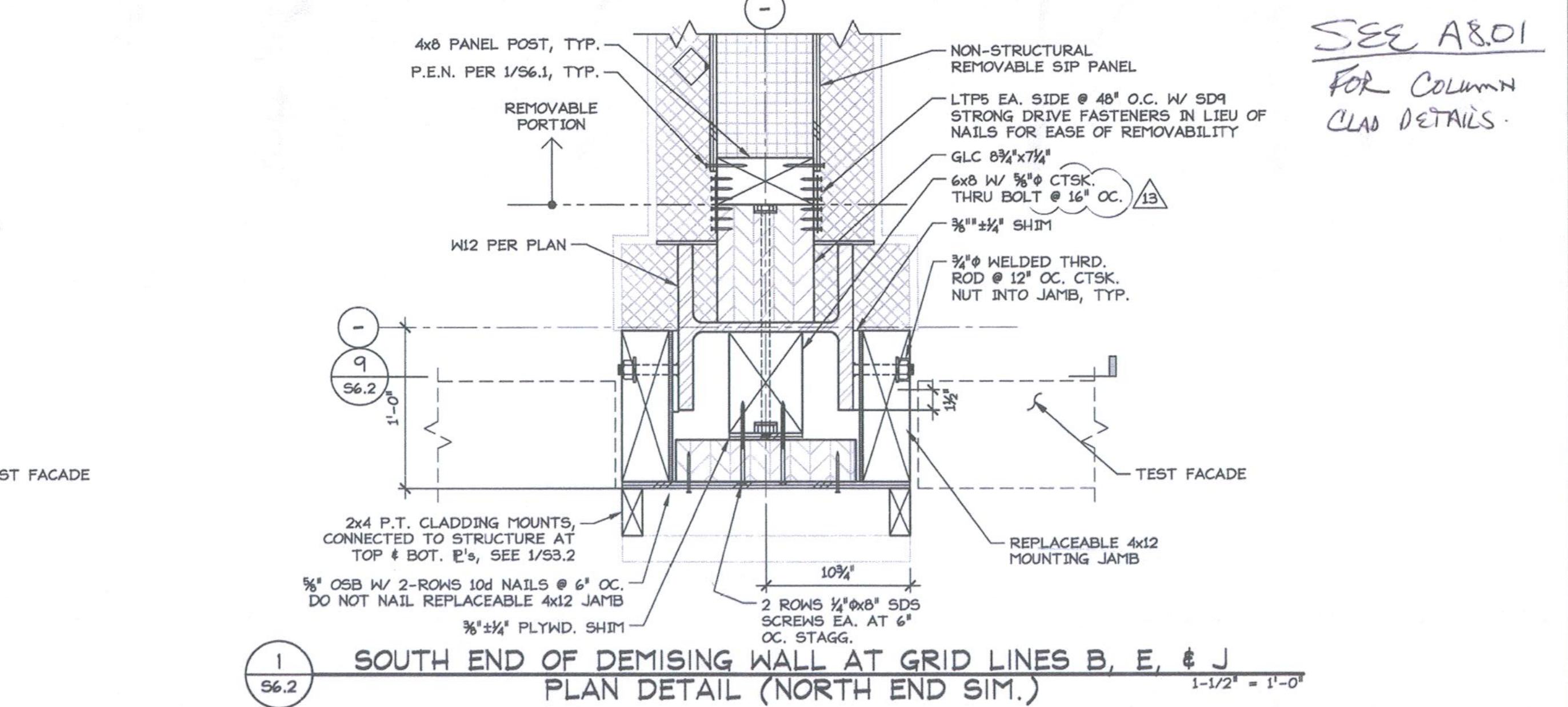
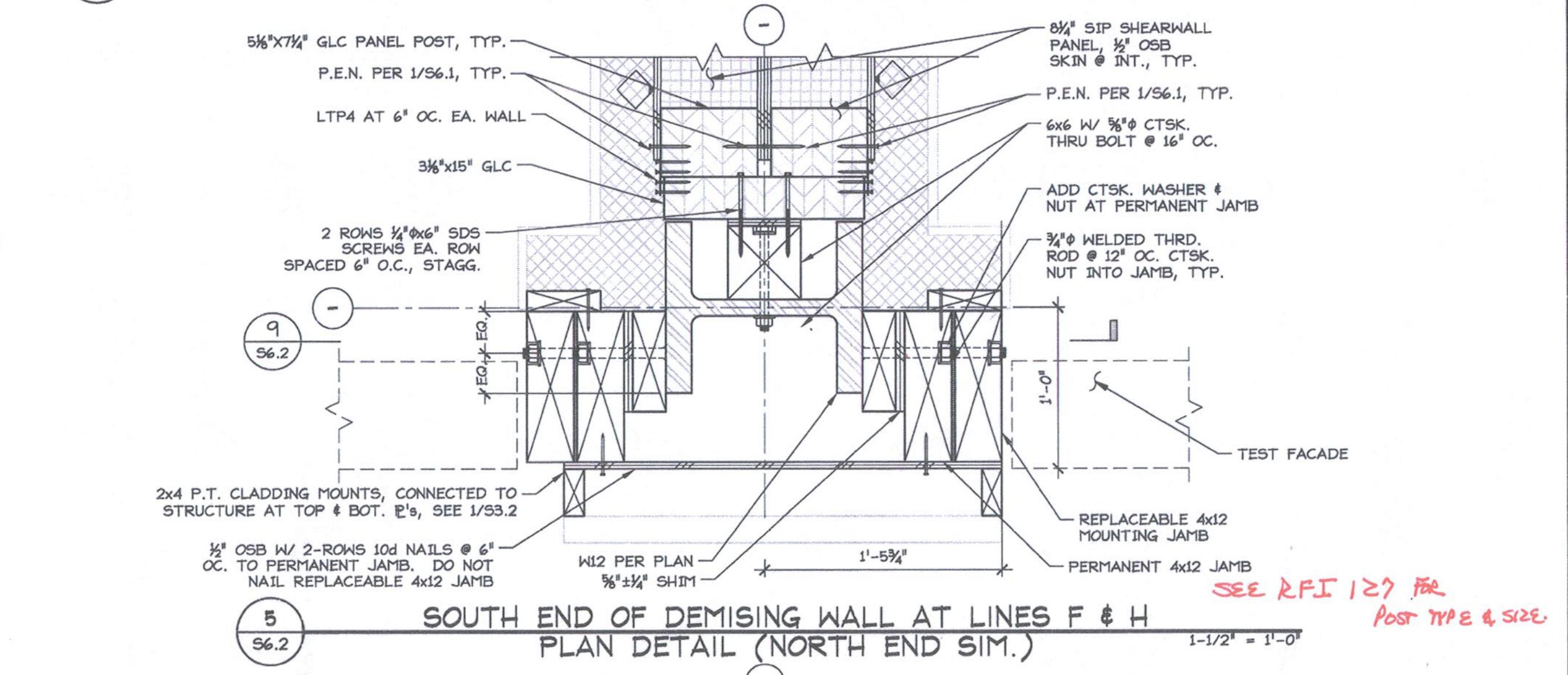
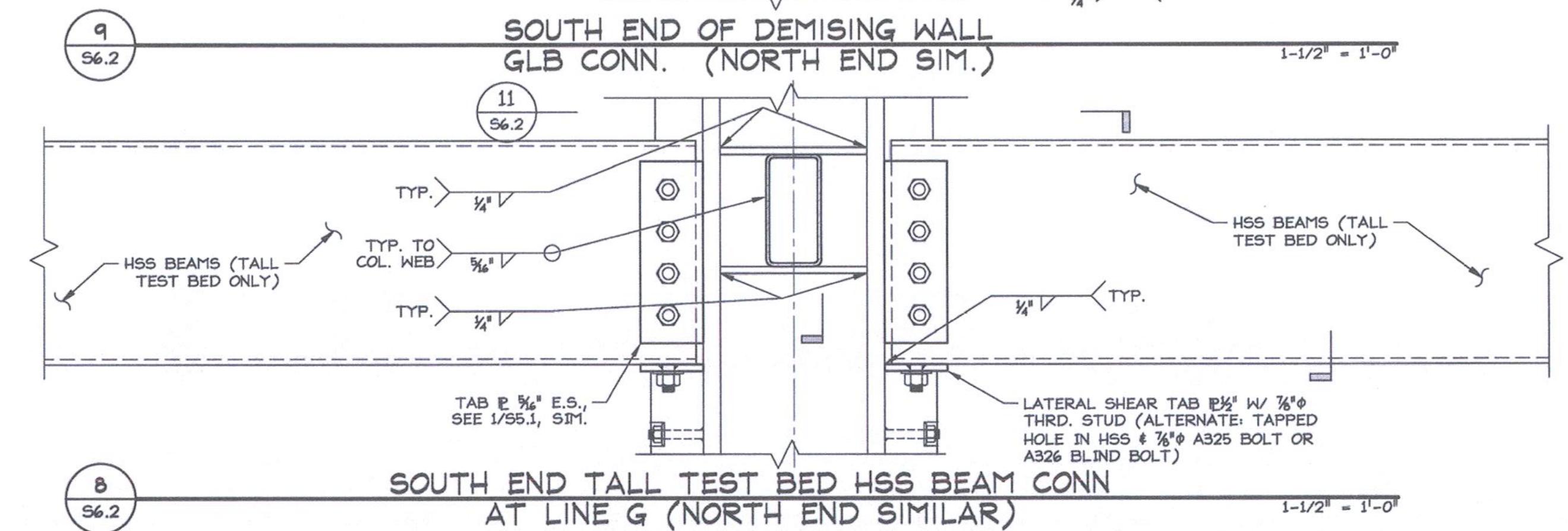
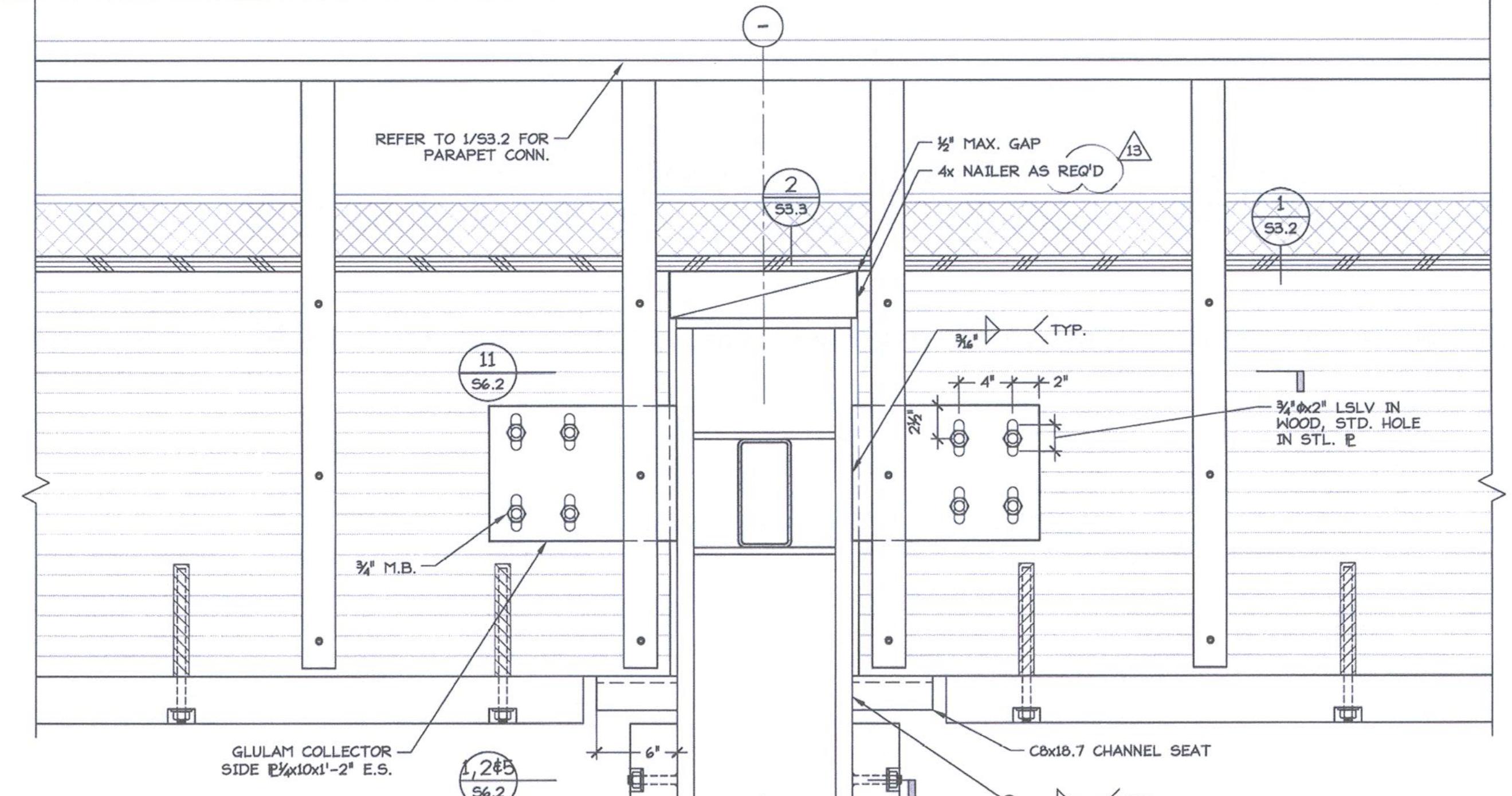
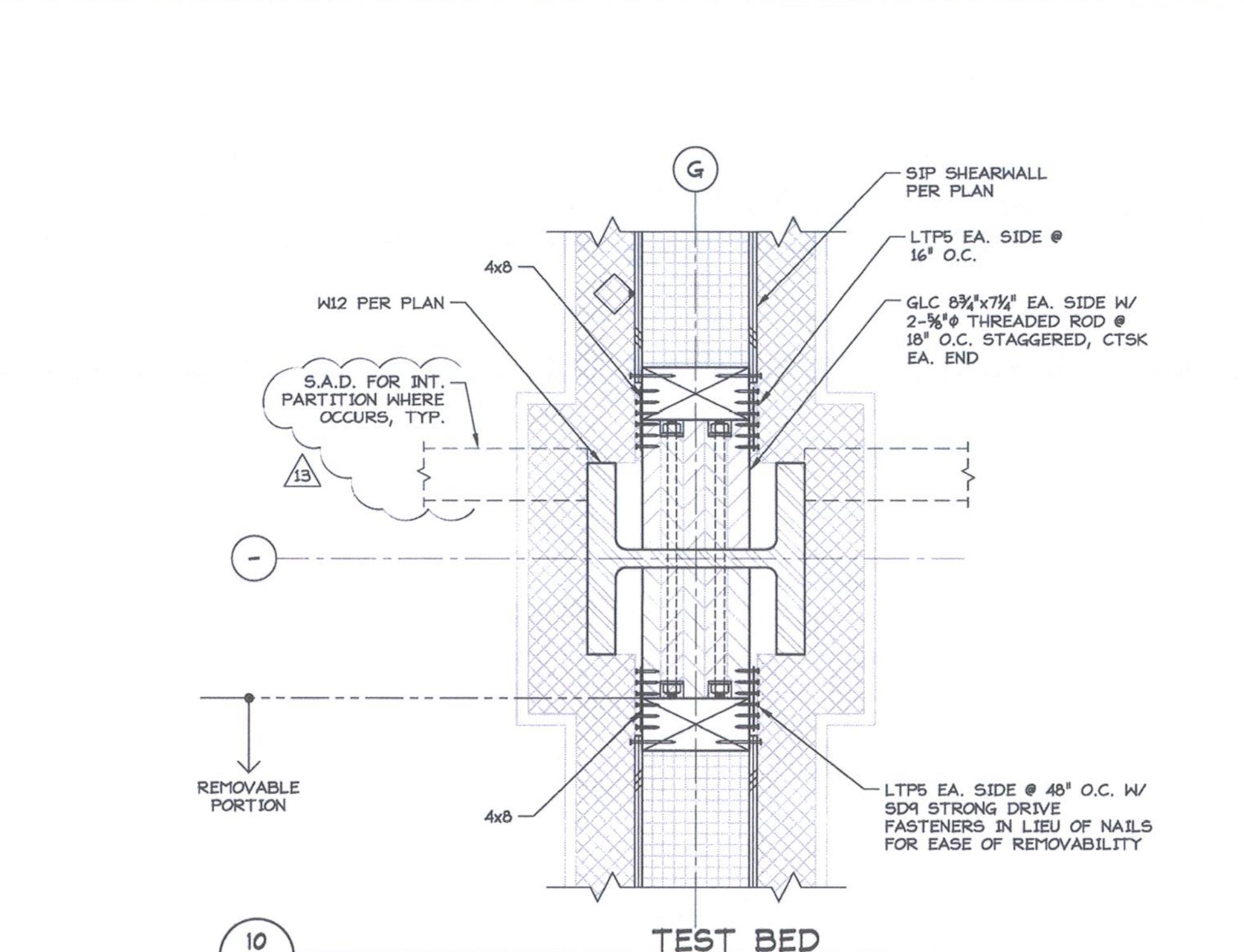
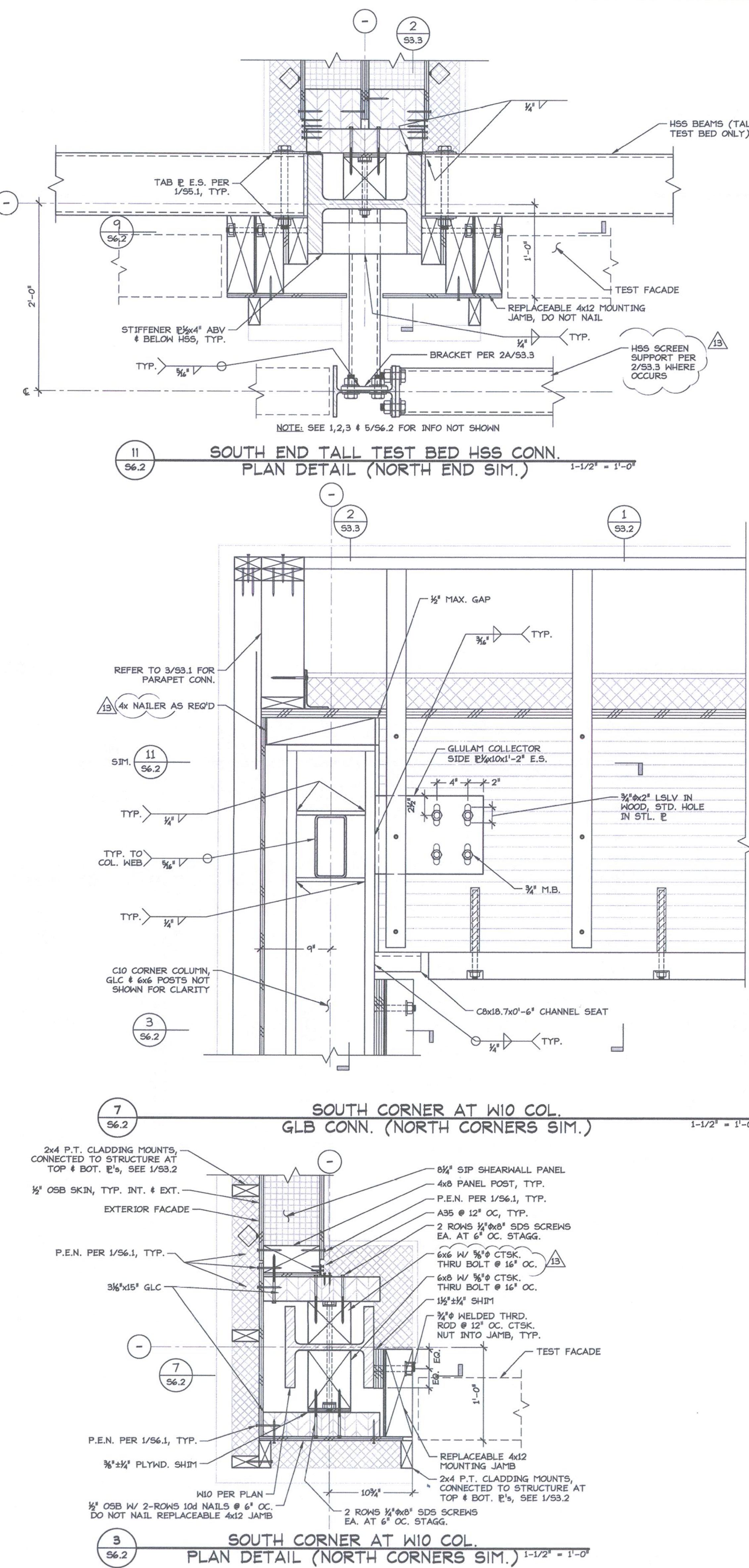
Project name User Test Bed Facility (UTBF) Project Lawrence Berkeley National Laboratory University Of California
LAWRENCE BERKELEY NATIONAL LABORATORIES
FACILITIES DIVISION

Drawn By	NAL	Date	11/14/2011
Checked By	JRW	Date	11/14/2011
Approved By	JRW	Date	11/14/2011
CAD file path	062S6-1		
Title:	TYPICAL WOOD DETAILS		
Scale:	As Noted		
Sheet no.:	S.6.1		
Project No:	6947816		
Project ID:	FNO100		

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TM PROJECT NO.: 2010_062



ASI-7

09/19/2012

Issue (Progress, estimate, bid, construction, conformed, revision, as-built)

Revision number

Drawn by

Checked by

Approved by

Date

Remarks

1	NAL	JRW	JRW	01/13/11	ADDENDUM 1
2	JRW	JRW	JRW	01/19/11	ADDENDUM 2, REVISION 2
6	CTT	JRW	JRW	05/11/12	ISSUE FOR CONSTRUCTION
19	CTT	JRW	JRW	09/19/12	ASI-7

Project name
User Test Bed Facility (UTBF) Project
Lawrence Berkeley National Laboratory
University Of California

Drawn By NAL Date 11/14/2011
Checked By JRW Date 11/14/2011
Approved By JRW Date 11/14/2011
CAD file path 062S6-2

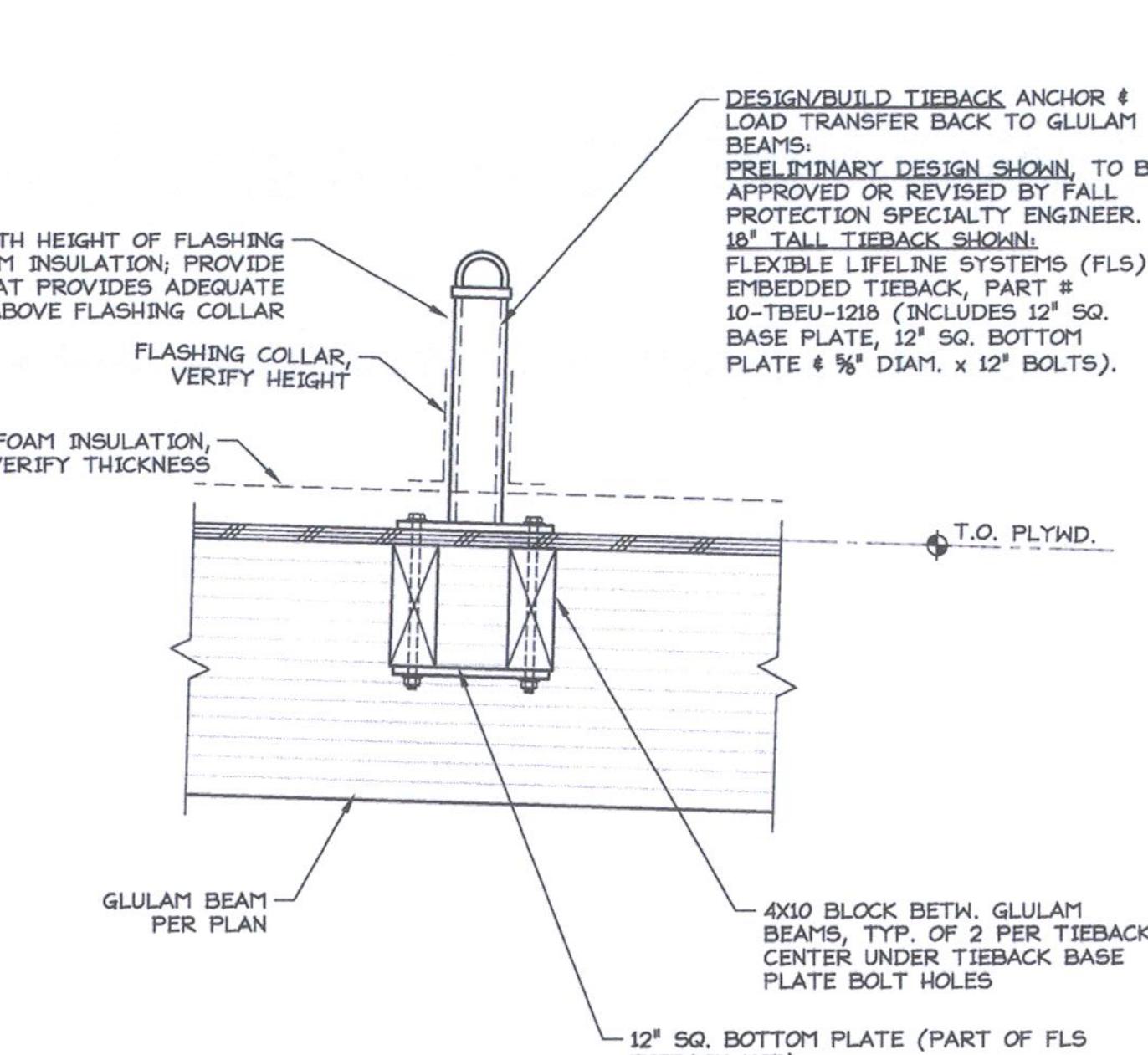
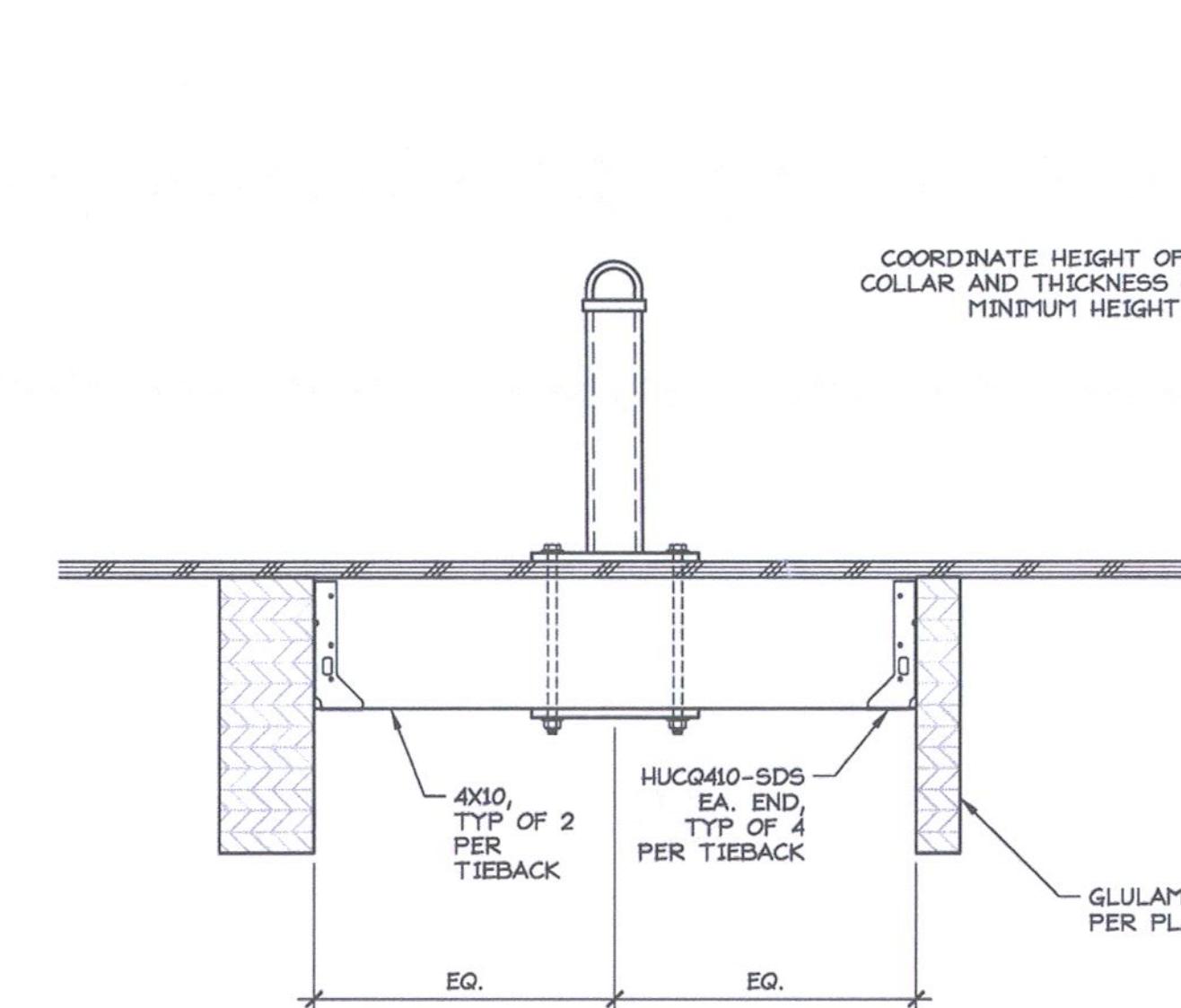
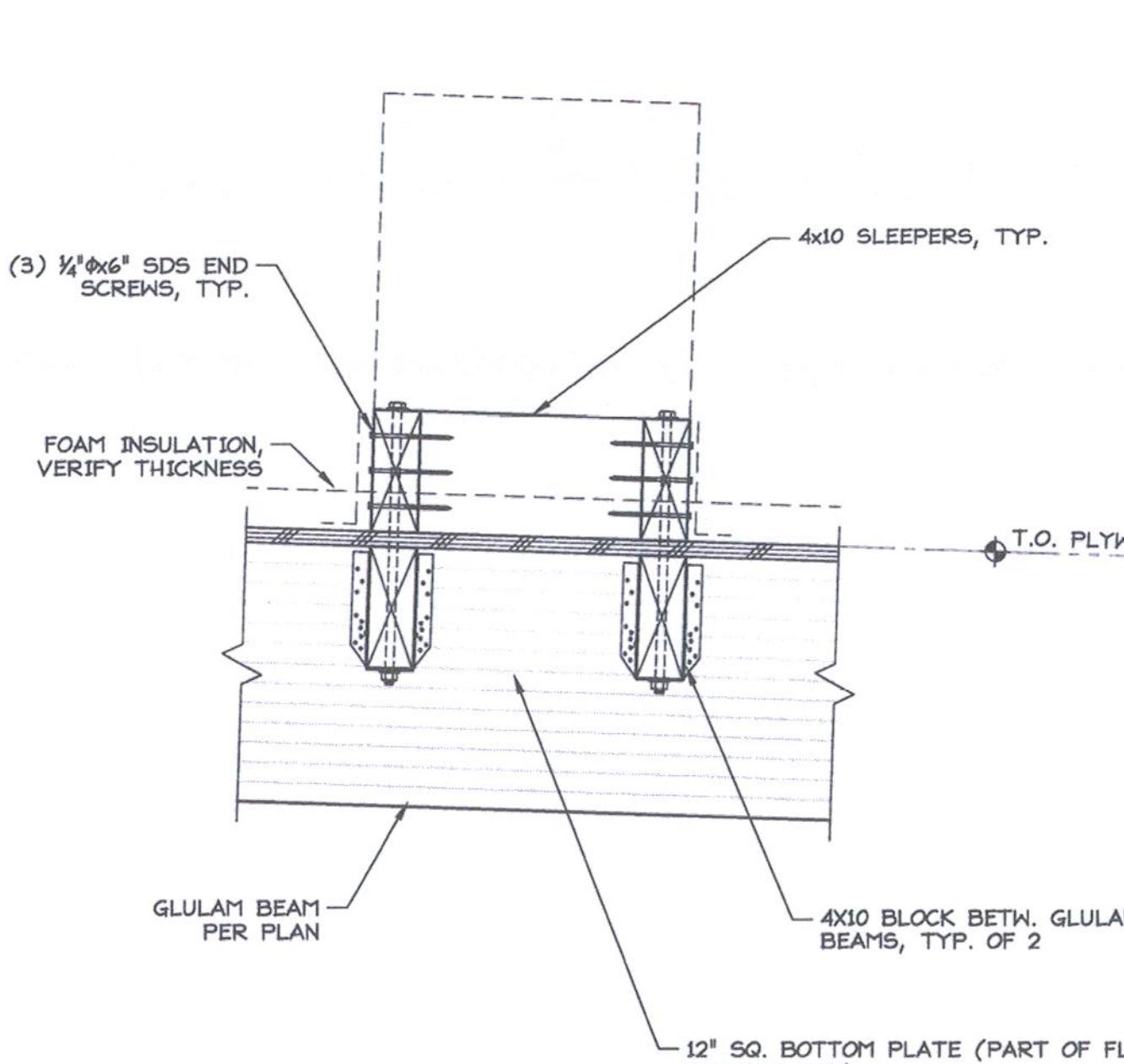
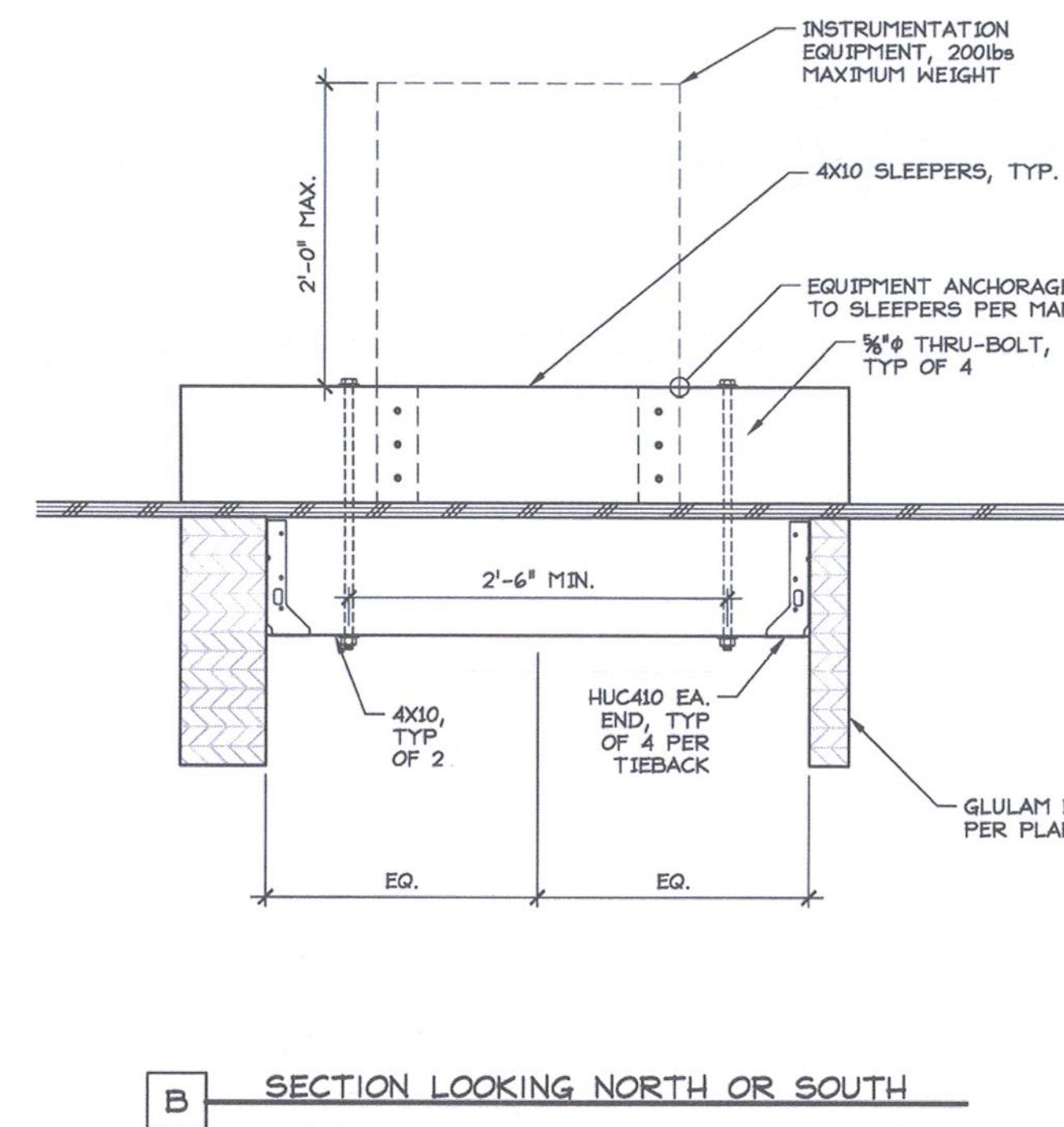
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LAWRENCE BERKELEY NATIONAL LABORATORIES
FACILITIES DIVISION

Scale As Noted Sheet no:
S6.2
Project No: 6947816
FNO100
4B90XS019

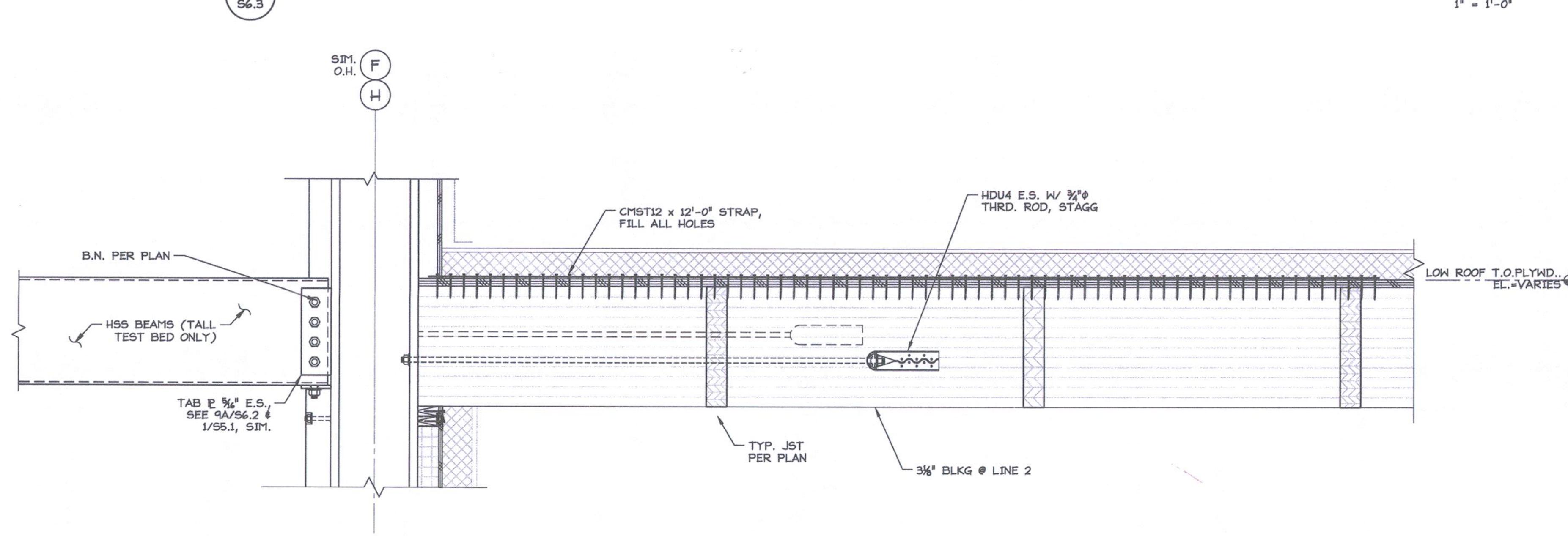
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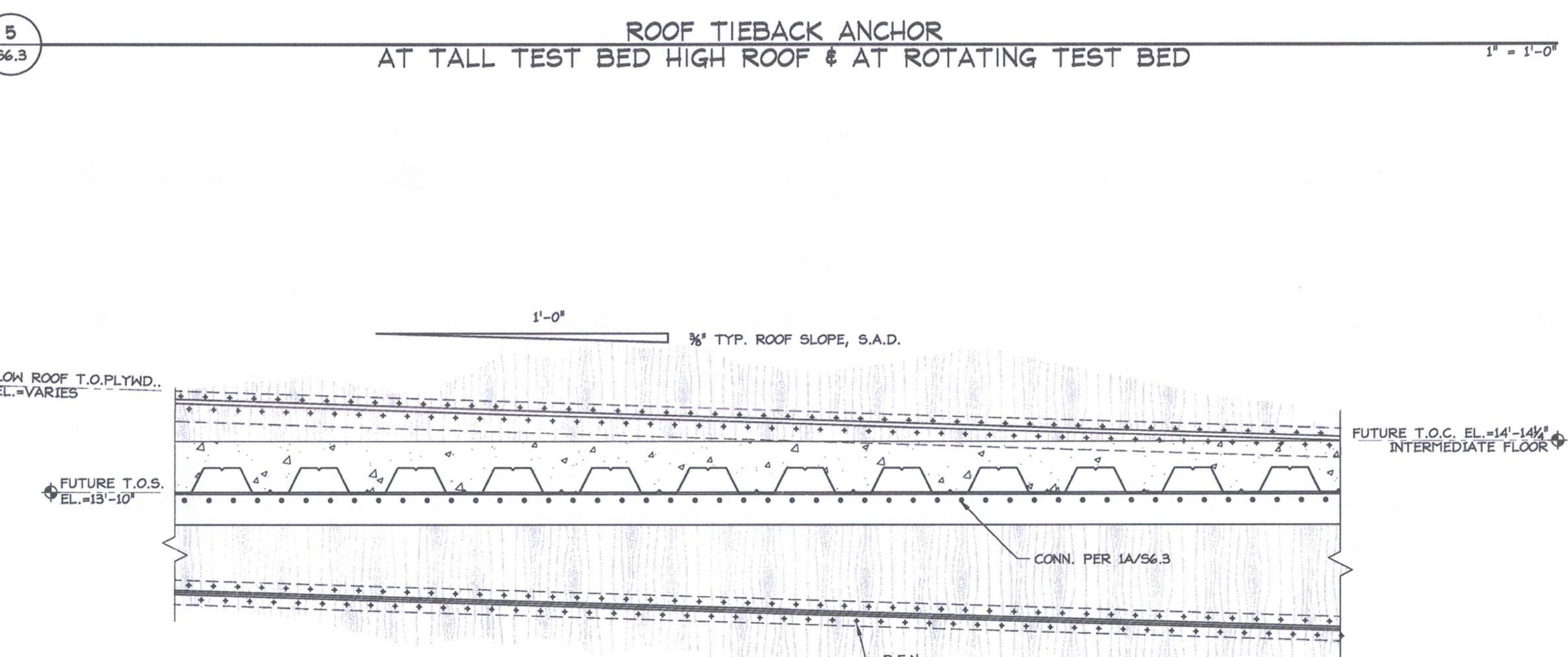
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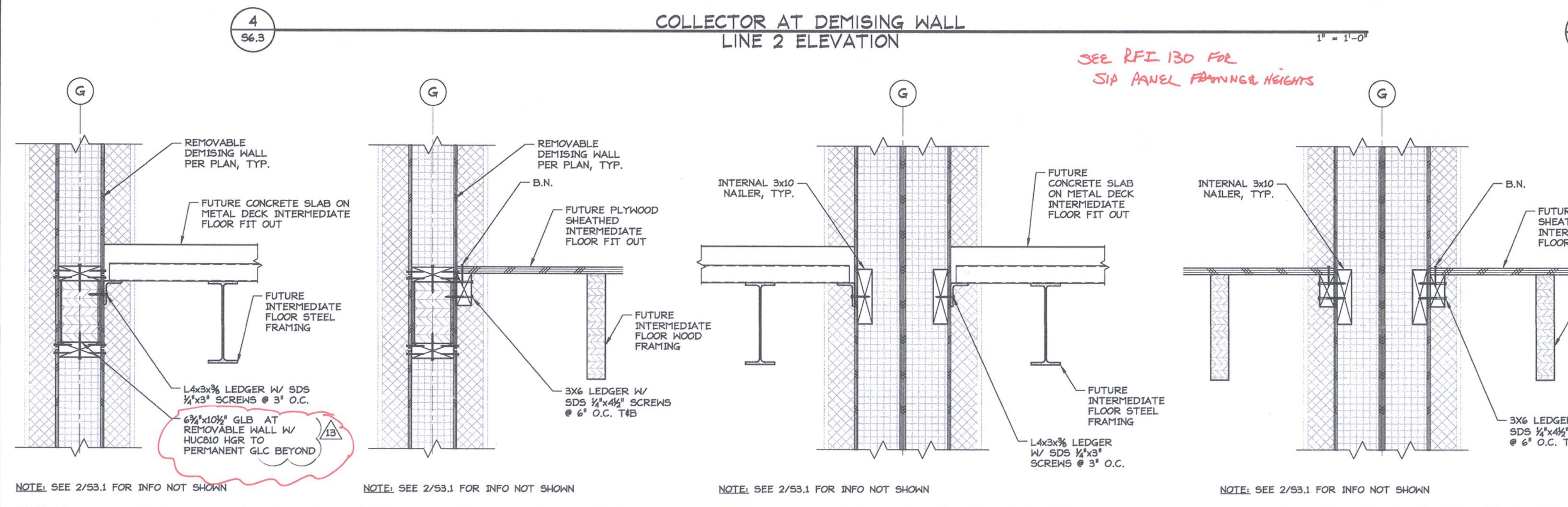
ROOF EQUIPMENT MOUNTING DETAIL



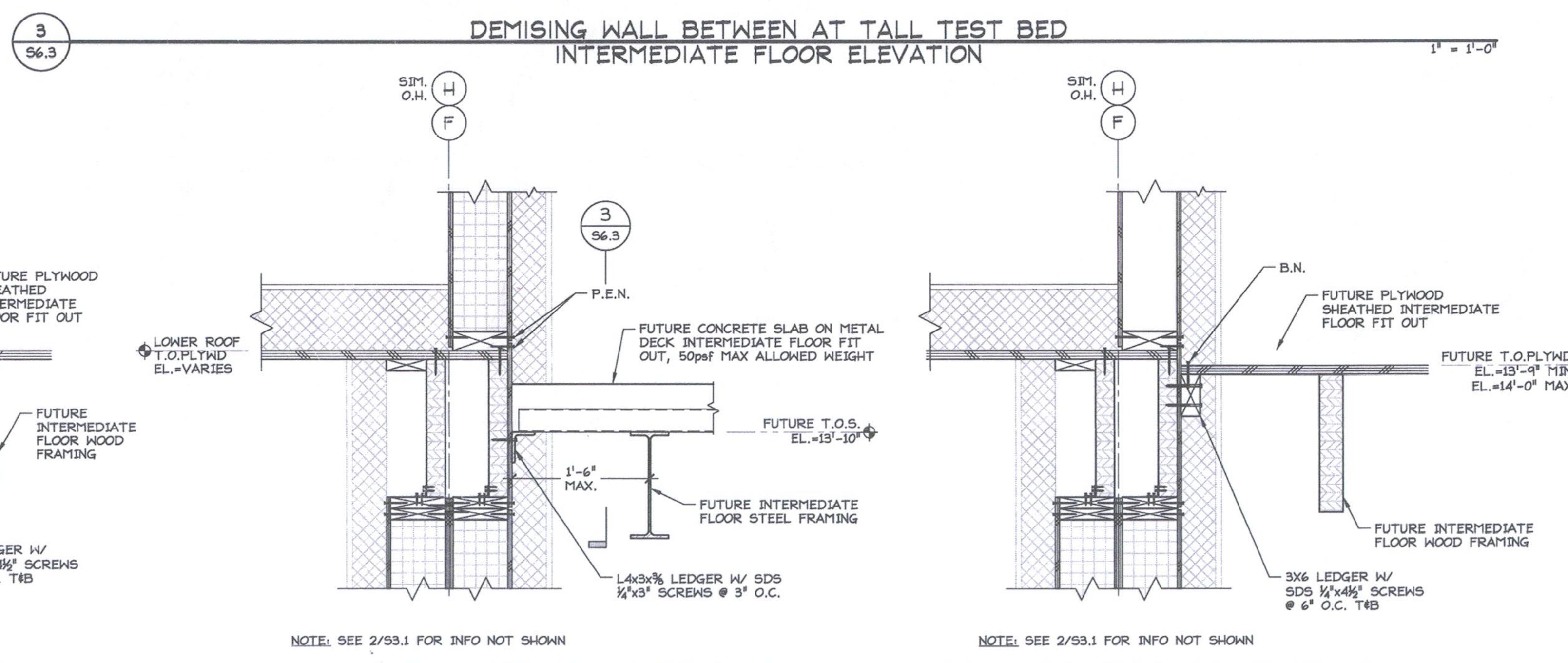
ROOF TIEBACK ANCHOR
AT TALL TEST BED HIGH ROOF & AT ROTATING TEST BED



COLLECTOR AT DEMISING WALL
LINE 2 ELEVATION



DEMISING WALL BETWEEN AT TALL TEST BED
INTERMEDIATE FLOOR ELEVATION



TALL TEST BED DEMISING WALL
INTERMEDIATE FLOOR FIT OUT FRAMING DETAILS

1' = 1'-0"

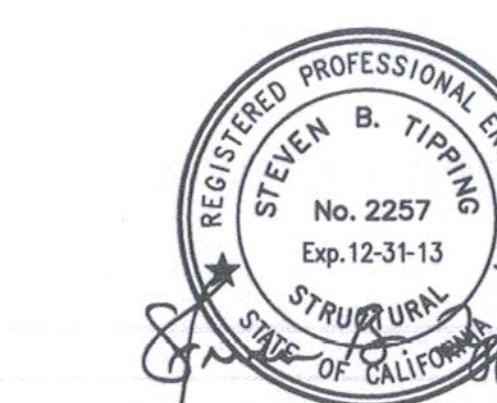
DEMISING WALL BETWEEN TEST BEDS
INTERMEDIATE FLOOR FIT OUT FRAMING DETAILS

1' = 1'-0"



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ASI-7
09/19/2012

Architect

Consulting Firm

Consulting A/E Firm

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Issue (Progress, estimate, bid, construction, conformed, revision, as-built)

Revision number Drawn by Checked by Approved Date Remarks

User Test Bed Facility (UTBF) Project
Lawrence Berkeley National Laboratory
University Of California
Project name
CAD file path 062S6-3
Title: STRUCTURAL DETAILS
Scale As Noted
Project No: 6947816
Project ID: FNO100

Drawn By	NAL	Date 11/14/2011
Checked By	JRW	Date 11/14/2011
Approved By	JRW	Date 11/14/2011
CAD file path	062S6-3	
Title:	STRUCTURAL DETAILS	
Scale:	As Noted	Sheet no: S6.3
Project No:	6947816	
Project ID:	FNO100	4B90XS020

Email: tschaefer@lbl.gov
 Subject: Metal Stud Framing Clips
 Spec No:
 Drawing: S3.2 & S7.1
 Submitting:
 Addendum:
 Date Due: 07/17/2013 Expedited response is requested to avoid impacting the schedule

RFI 232.01

Information Requested
 Follow up to the response given in RFI # 232 there seems to be a little confusion because our RFI # 2 was for the (wind box beams) and not the end headers at 5 feet. Please confirm the following.
 1) The wind box beams shown on 1/S3.2 reference you to 9/S7.1 for the end connections?
 2) Detail 9 on S7.1 is for headers greater than 5 feet?
 3) Per the response given in RFI # 232 the clips that are shown per detail 9 on S7.1 can be 2 $\frac{1}{2}$ " \times 16ga" x 2 $\frac{1}{2}$ " \times 16ga" x 5-1/2" x 16ga?
 4) If detail 9 on S7.1 does not apply to the full-width header or for the end connections please provide a note for the location?
 1. No, as the note on 1/S3.2 states, "Interconnect built-up beam per 9/S7.1. End connect to wood jamb w/...etc." Detail 9/S7.1 is only referred to the screw locations to interconnect the built-up stud and track sections, not how the end connects to the wood jamb. Because the stud and track sections are so thick, use #12 sheet metal screws (SMS) instead of the #8's called for on 9/S7.1.
 2. As far as the end connections are concerned, the detail applies to headers more than 5 feet long but less than or equal to 10 feet long (as stated in our previous response).
 3. L2x2x16ga clips are ONLY for headers up to 10 feet long (e.g. at north facade). Does NOT apply to the south facade wind box beams.
 4. Refer to the last portion of the note on 1/S3.2: "End connect to wood jamb w/ L6x6x12ga bent plate & 12-1/4"X3.5" SDS screws." Clarifying information: L6 clip is at top and bottom of each end of wind box beam, with 12-SDS screws total per end of the wood beam, 8 at top clip and 6 at bottom clip, as graphically shown on 1/S3.2. Connect each L6G clip to the top and bottom of the wind box beam with 6 - #12 SMS. Pre-drill clips with 5/16" holes for the SDS, and 1/4" holes for the SMS; locate edge holes 1.25" from clip edges.

John Wolfe, Tipping Mar, July 15, 2013

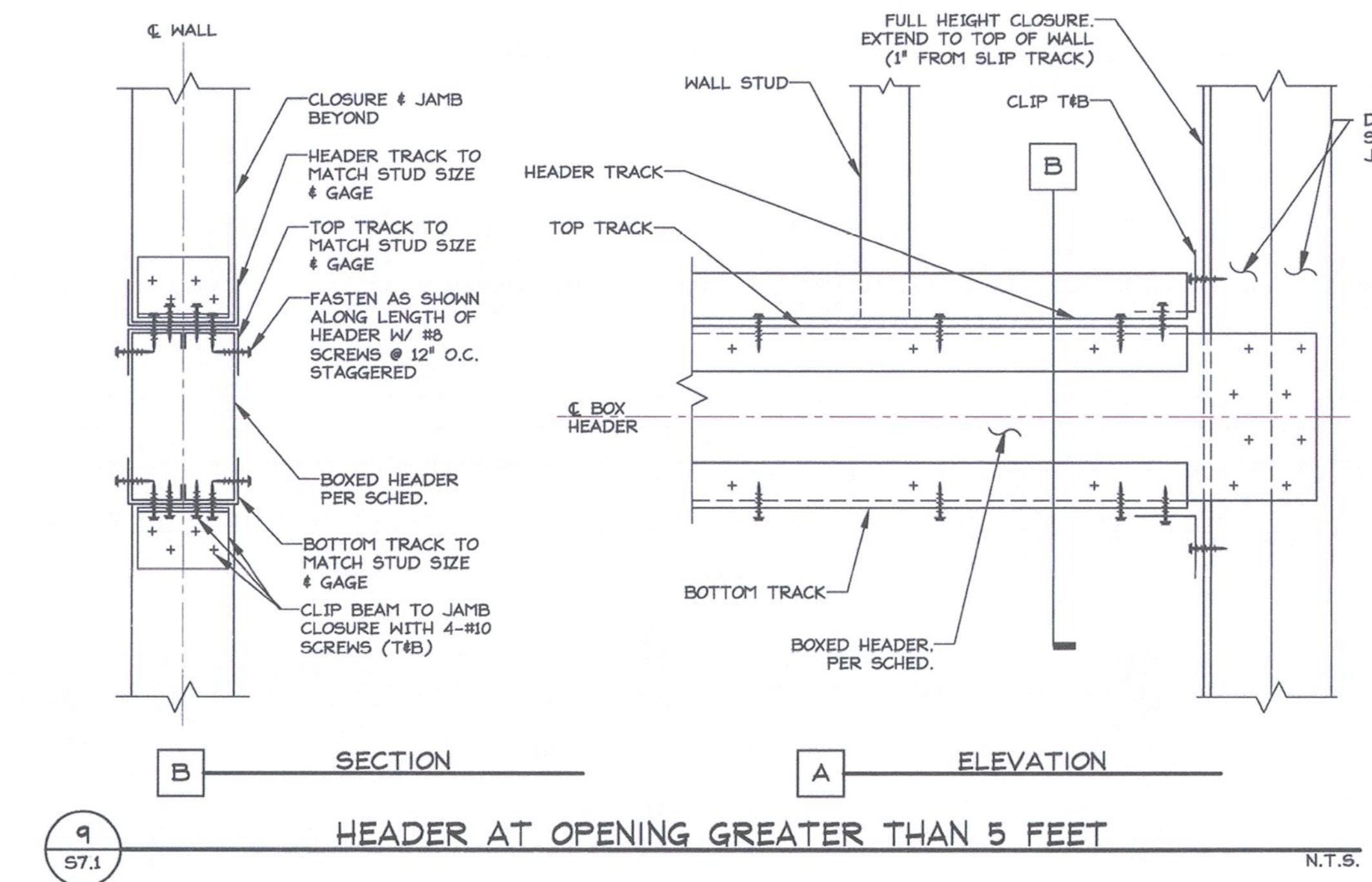
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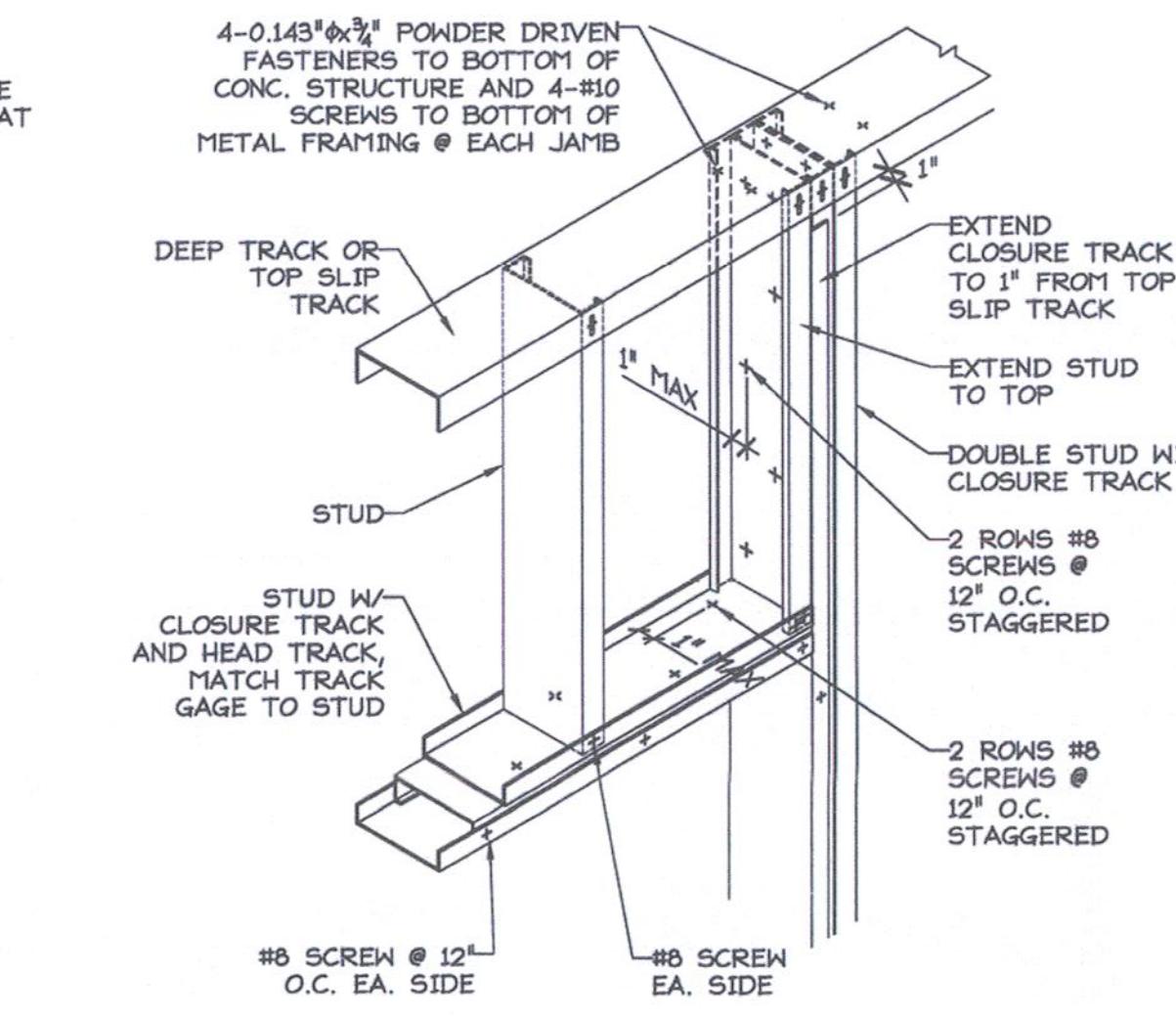
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A 2"x2" x 16 ga clip is acceptable. The length of the clip should be no shorter than the width of the stud minus 1/2".
 Please note that detail S7.1 only applies to openings ten feet or less in width.
 Moreover, please note that S7.1 does NOT apply to the full-width headers ("wind box beams") shown on 1/S3.2. Those box beams on the south facade are continuous across the full bay width of each test cell, and have special end connections as called out on detail 1/S3.2. The studs below and between those box beams bear the weight of the facade and should therefore have standard tracks, not slotted deflection tracks.
 John Wolfe, Tipping Mar, July 9, 2013

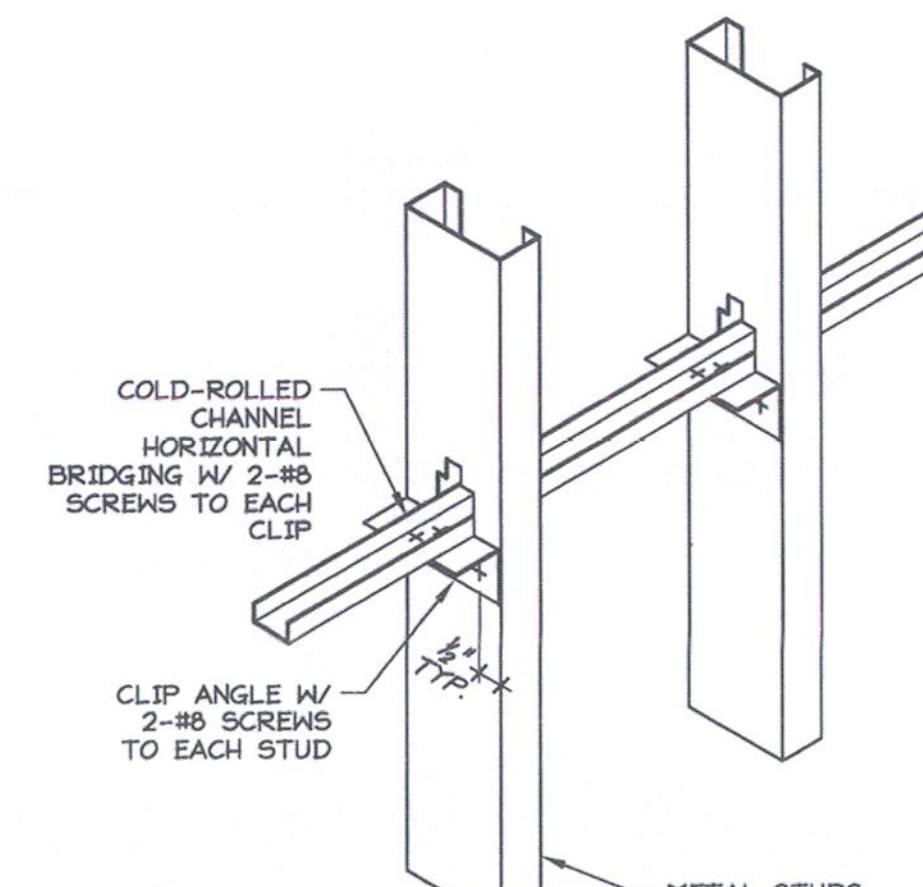
RFI 232 - S7.1



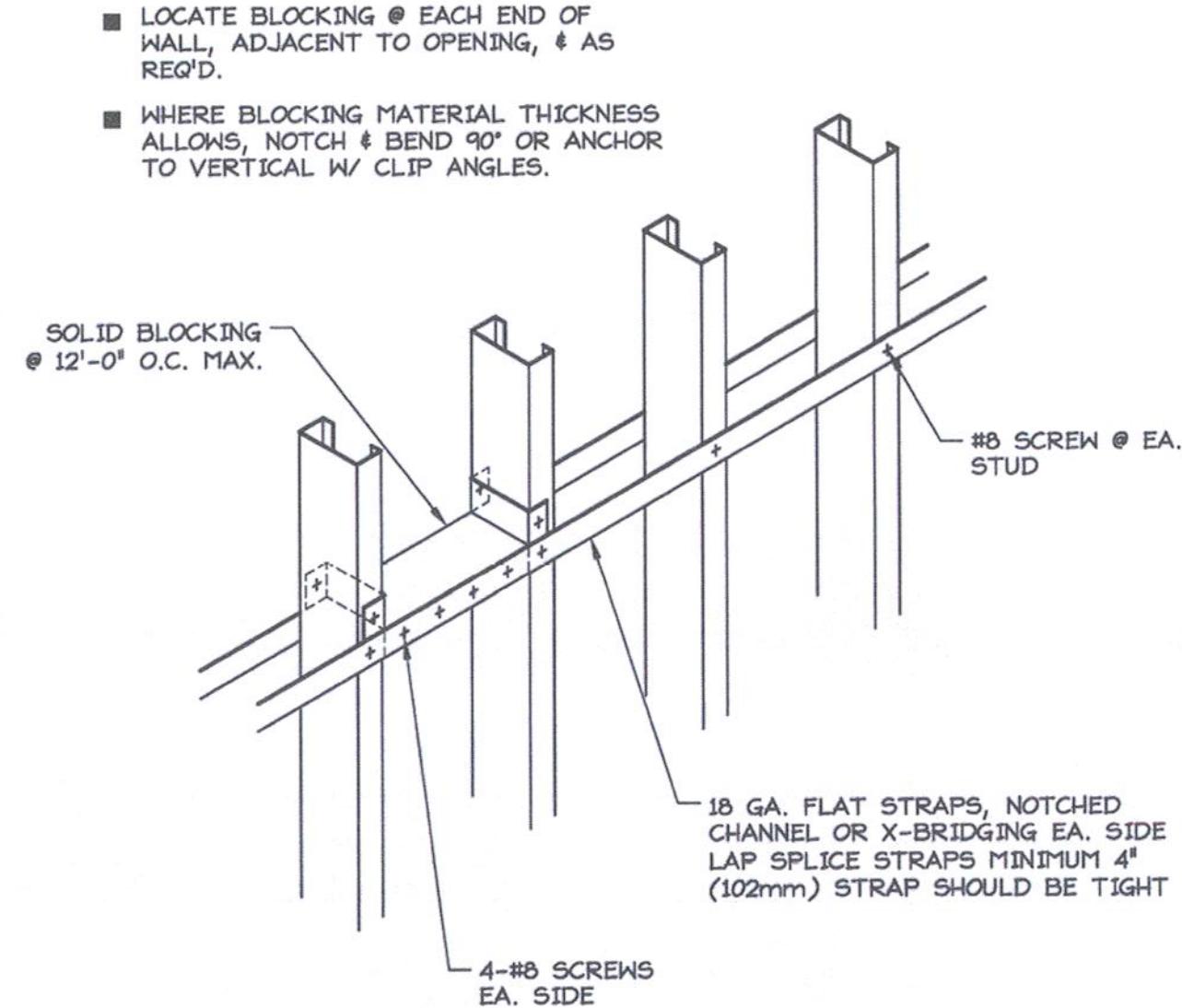
HEADER AT OPENING GREATER THAN 5 FEET



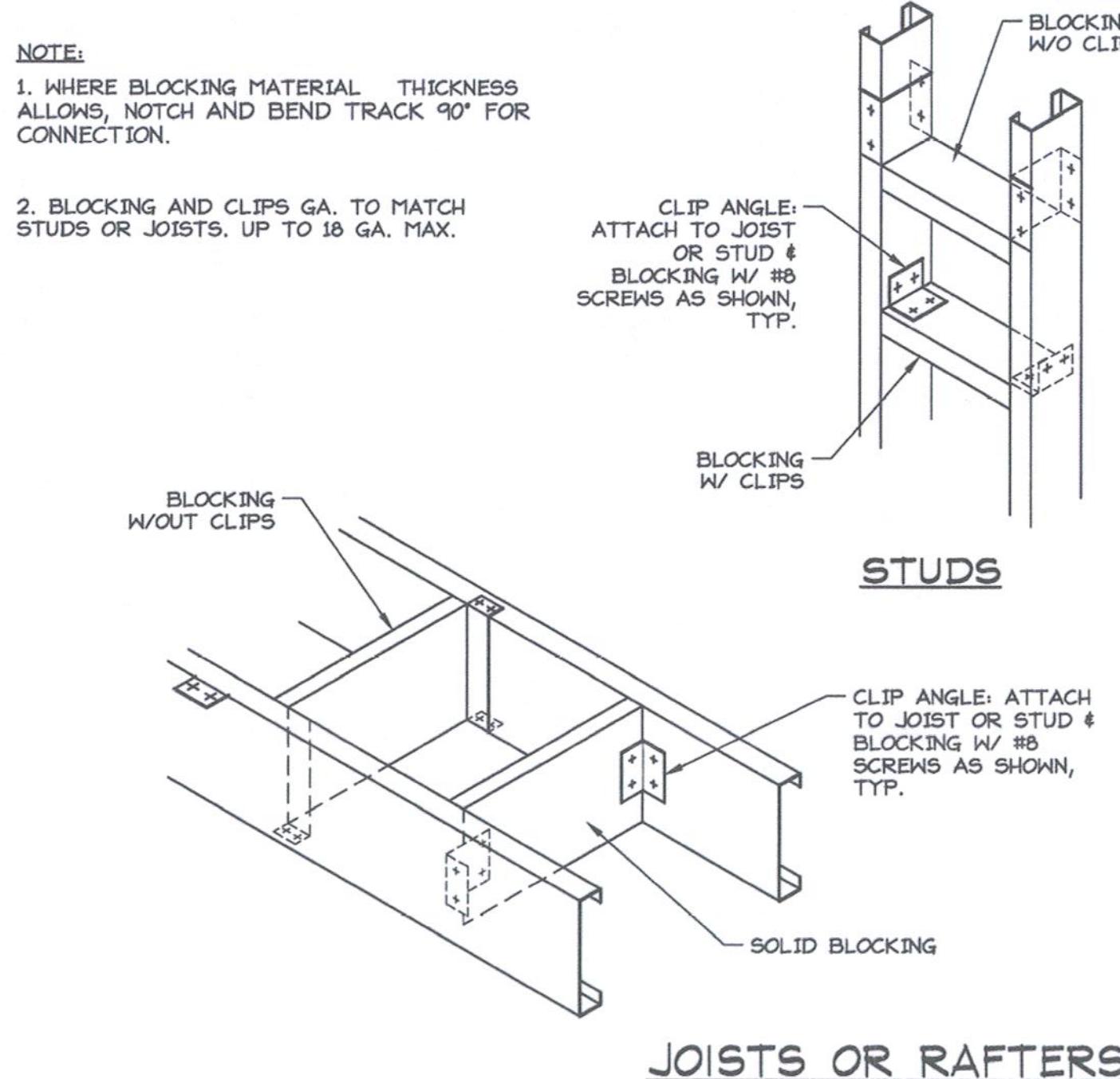
HEAD AT OPENINGS < 5 FEET



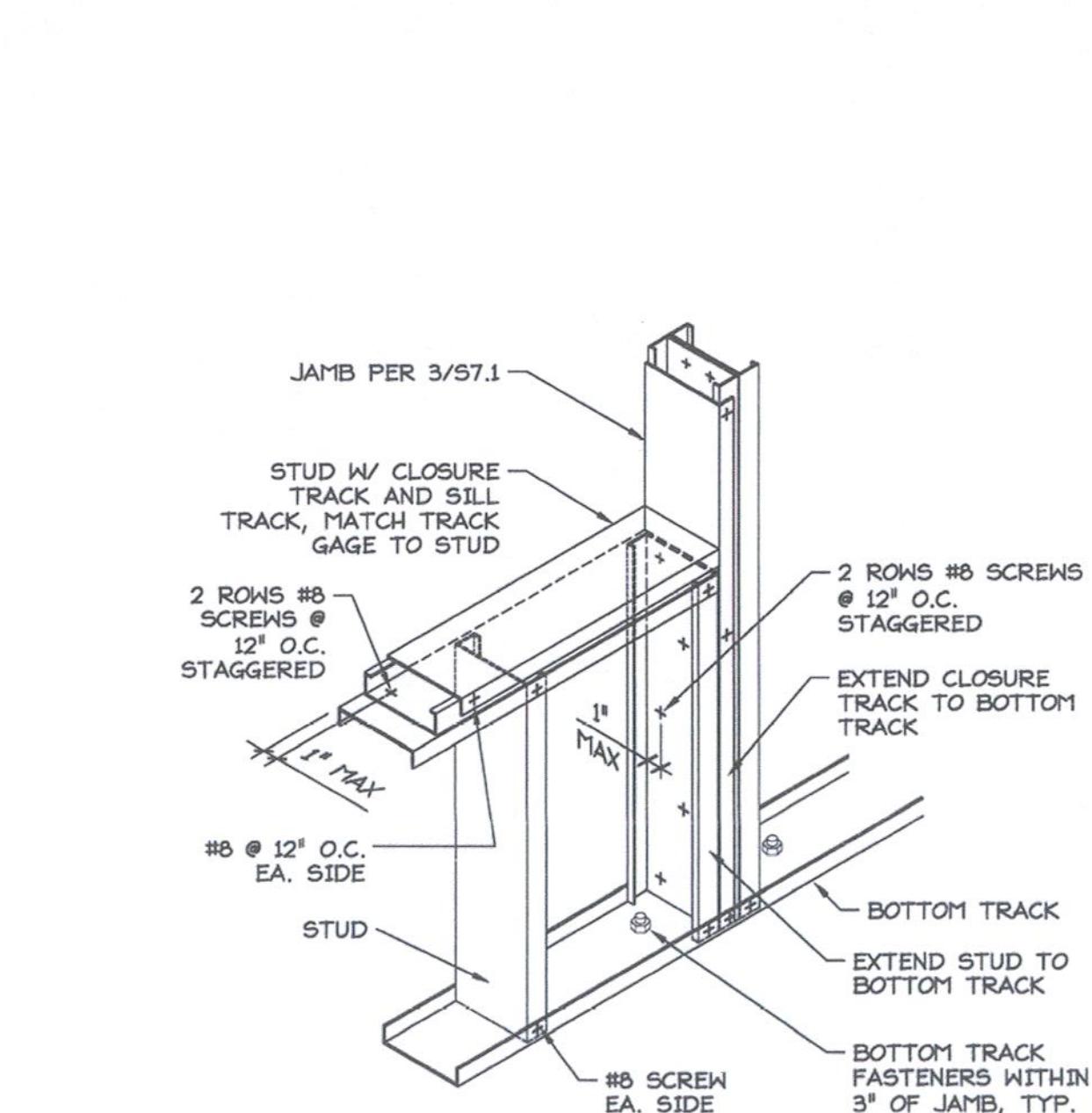
ALT. WALL BRIDGING



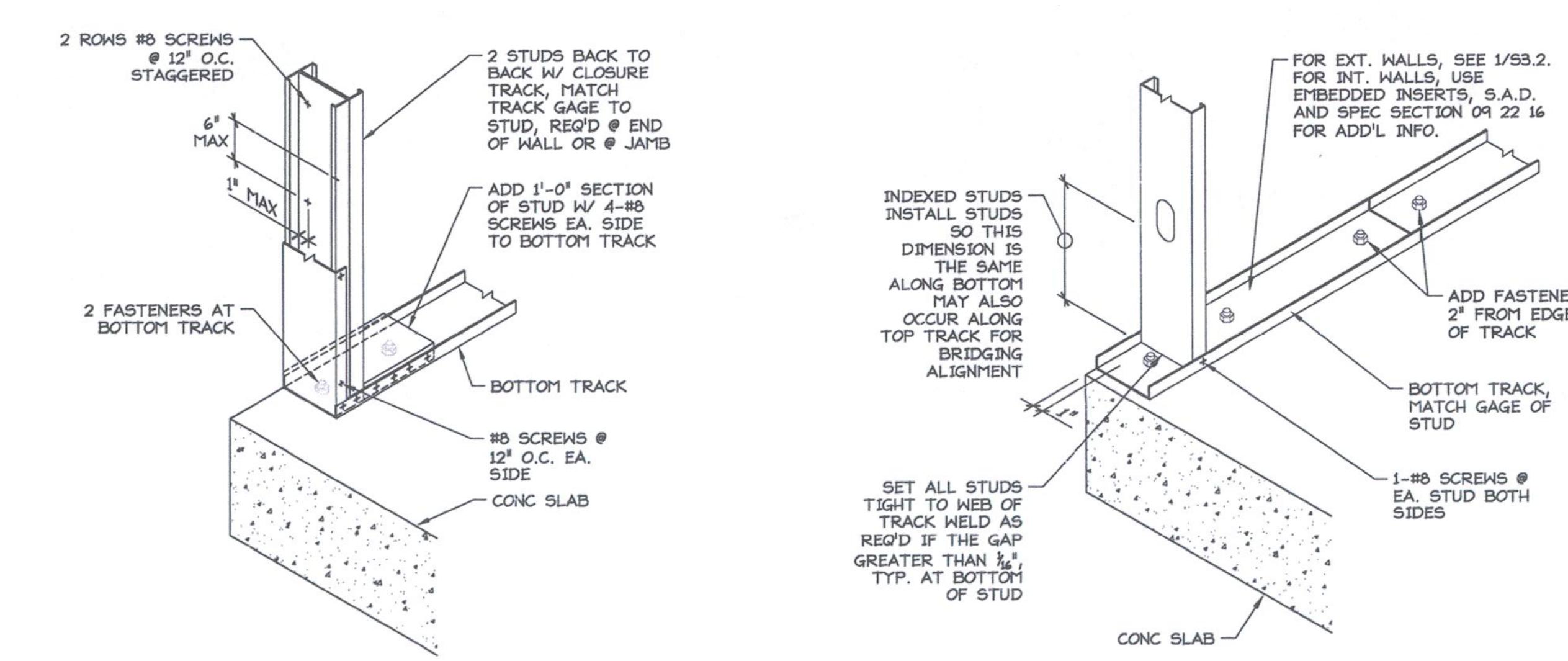
TYPICAL WALL BRIDGING



JOISTS OR RAFTERS

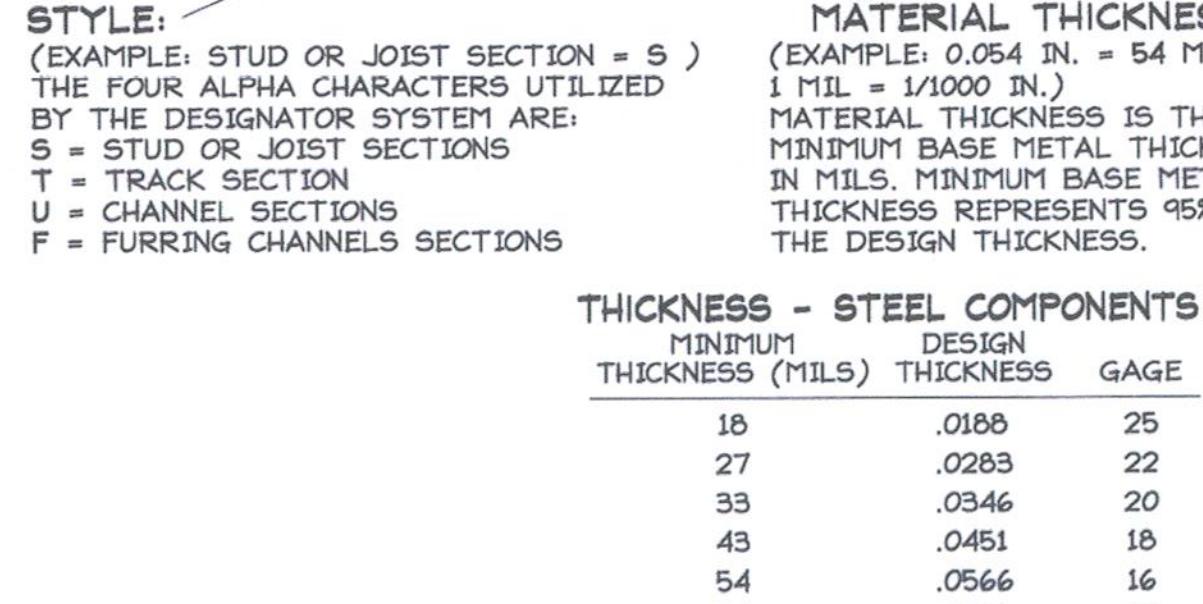
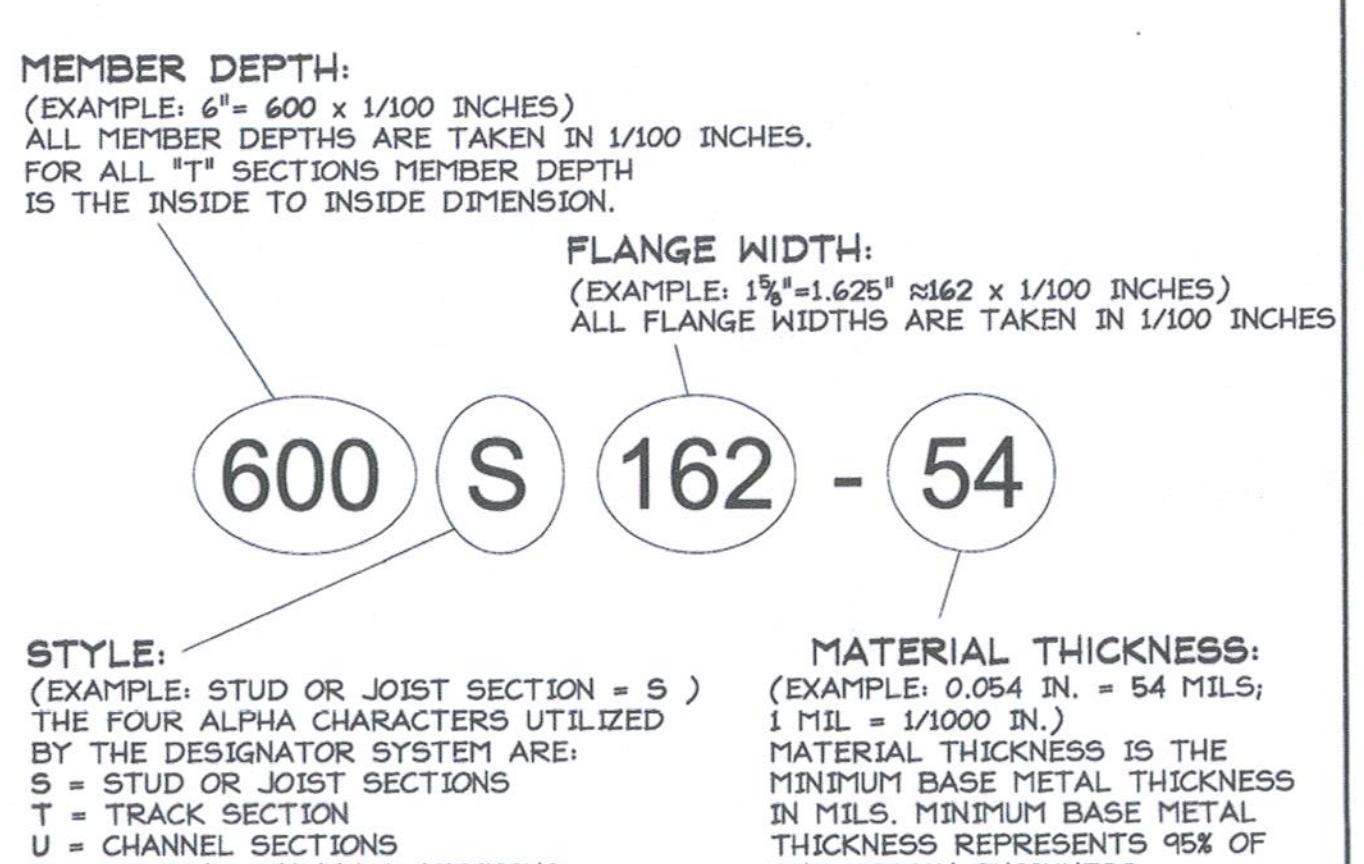


TYPICAL SOLID BLOCKING



JAMB AND SILL

WALL END OR JAMB BASE @ CONC. SLAB



	MINIMUM THICKNESS (MILS)	DESIGN THICKNESS (MILS)	GAGE
18	.018	.025	25
27	.028	.036	22
33	.034	.046	20
43	.045	.056	18
54	.056	.066	16
68	.071	.073	14
97	.107	.107	12

TYP. BASE OF WALL @ CONC. SLAB

NOMENCLATURE FOR LT. GA. MTL MEMBERS

1	NAL	JRW	JRW	01/13/11	ADDENDUM 1
2	JRW	JRW	JRW	01/19/11	ADDENDUM 2, REVISION 2
3					
4					
5					

Project name: User Test Bed Facility (UTBF) Project
 Lawrence Berkeley National Laboratory
 University Of California

Drawn By NAL Date 11/14/2011
 Checked By JRW Date 11/14/2011
 Approved By JRW Date 11/14/2011
 CAD file path: 062S7-1
 Title: TYP. LIGHT GAGE METAL DTLS
 Scale 1" = 1'-0"
 Project No: 6947816
 Project ID: FNO100

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Issue (Progress, estimate, bid, construction, conformed, revision, as-built)
 Revision number Drawn by Checked by Approved Date Remarks



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ISSUE FOR CONSTRUCTION
 05/11/2012