

### PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

+7-

RANGE

5°

10°

10°

10°

10°

14.5

10°

<u>5</u>°

5

5°

10°

10°

5° 10°

14.5 10° 5° 5°

10°

10° 5°

5°

5°

10°

- POTENTIOMETER PERPENDICULAR TO PLANE
- POTENTIOMETER IN DIRECTION OF ARROW
- TILTMETER (T)
- NDI OPTOTRAK LED TARGET (N)

#### **ABBREVIATIONS** NORTH SOUTH **EAST** W WEST BOT BOTTOM MID MIDDLE COLUMN BR **BRACE** PL PLATE

OOP OUT OF PLANE IΡ IN PLANE DIAG DIAGONAL DISP DISPLACEMENT ROT ROTATION

РΤ POINT

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WP WORK POINT

# MID S SIDE MID S MID S SIDE BASE AT BOT BEAM T19 MID N SIDE ROT MID N SIDE

SLAB

SLAB

ΑТ

ΑТ

ΑТ

BRACE

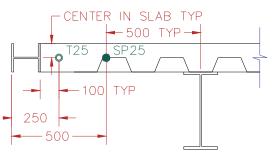
BRACE

DESIGNATIONS

FLANGE AT BOT BEAM

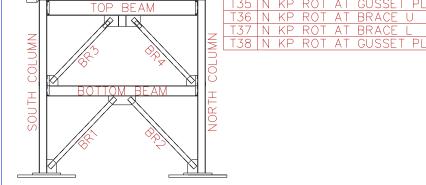
### NDI OPTOTRAK LED DESIGNATIONS

•	DESCRIPTION	<ul> <li>DESCRIPTION</li> </ul>
N1	BR1 IP QUARTER PT	N25 BR2 IP QUARTER PT
N2	BR1 IP	N26 BR2 IP
N3	BR1 IP	N27 BR2 IP
N4	BR1 IP	N28 BR2 IP
N5	BR1 IP	N29 BR2 IP
N6	BR1 IP	N30 BR2 IP
N7	BR1 IP	N31 BR2 IP
N8	BOT BEAM MID GP GRID	N32 BOT BEAM MID GP GRID
N9	BOT BEAM MID GP GRID	N33 BOT BEAM MID GP GRID
N10	BOT BEAM MID GP GRID	N34 BOT BEAM MID WEB GRID
N11	BOT BEAM MID GP GRID	N35 BOT BEAM MID WEB GRID
N12	BOT BEAM MID GP GRID	N36 BOT BEAM MID WEB GRID
N13	BOT BEAM MID WEB GRID	N37 BOT BEAM MID WEB GRID
N14	BOT BEAM MID WEB GRID	N38 BOT BEAM MID WEB GRID
N15	BOT BEAM MID WEB GRID	N39 BOT BEAM MID WEB GRID
N16	BOT BEAM MID WEB GRID	N40 BOT BEAM MID WEB GRID
N17	BOT BEAM MID WEB GRID	N41 BOT BEAM MID WEB GRID
N18	BOT BEAM MID WEB GRID	N42 BOT BEAM MID WEB GRID
N19	BOT BEAM MID WEB GRID	N43 BOT BEAM MID WEB GRID
N20	BOT BEAM MID WEB GRID	N44 BOT BEAM MID WEB GRID
N21	BOT BEAM MID WEB GRID	N45 BOT BEAM MID WEB GRID
N22	BOT BEAM MID WEB GRID	N46 BOT BEAM MID WEB GRID
N23	BOT BEAM MID WEB GRID	N47 BOT BEAM MID WEB GRID
N24	BOT BEAM MID WEB GRID	N48 BOT BEAM MID WEB GRID



TYPICAL SLAB END NOTE: LOCATE INCLINOMETERS ON OUTSIDE EDGE OF EACH SLAB INSTRUMENTATION DETAIL

Ш	NCBF-INV-2 NON-SEISMIC CBF WITH IN-PLANI	BUCKLING
1	NEESR NCREE BRACED FRAME TEST	DWG:



DRAWN BY: ADS **DESIGNED BY: ADS** DATE: 8/3/2013

CONTACT: ADSEN@UW.EDU

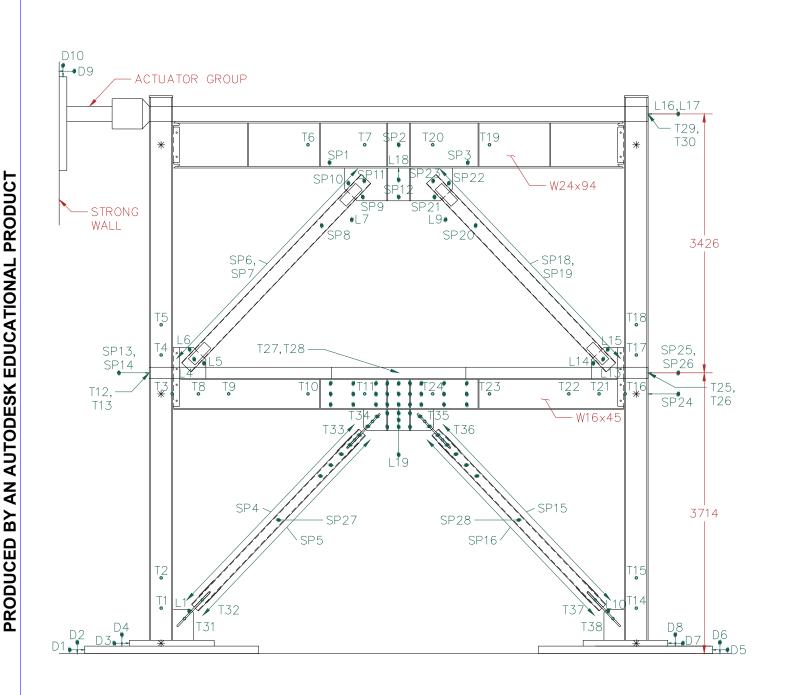
	AWN BY: ADS			IN-
	NCBF-INV-2 NON-SEISMIC EESR NCREE BRACED FRAME TEST	CBF W	ITH IN-PLAN	E BUCKLI
D10	ACTUATOR BASE PL SLIP	DIAL	25mm	
D9	ACTUATOR BASE PL UPLIFT	DIAL	25mm	
D8	N BASE PL UPLIFT	DIAL	25mm	
D7	N BASE PL SLIP	DIAL	25mm	
D6	N ANCHOR PL UPLIFT	DIAL	25mm	
D5	N ANCHOR PL SLIP	DIAL	25mm	
D4	S BASE PL UPLIET	DIAL	25mm	
D2 D3	S BASE PL SLIP	DIAL	25mm	
D2	S ANCHOR PL UPLIFT	DIAL	25mm	
D1	S ANCHOR PL SLIP	DIAI	25mm	TIVEEDOM
<u> </u>	DESCRIPTION	//////////////////////////////////////	//////////////////////////////////////	TREEDOM I
SP28	N BOT BRACE OOP	STRING	250mm	
SP27	S BOT BRACE OOP	STRING	125mm	
SP26	N BOT BEAM DRIFT W SIDE	STRING	250mm	
SP25	N BOT BEAM DRIFT E SIDE	STRING	250mm	
SP24	N BOT BEAM DRIFT WP	STRING	250mm	
SP23	N TOP GP OOP CENTER	STRING	125mm	HORIZ
SP22	N TOP GP OOP N EDGE	STRING	125mm	HORIZ
SP21	N TOP GP OOP BOT EDGE	STRING	125mm	HORIZ
SP20	N TOP BRACE QUARTER PT	STRING	250mm	HORIZ
SP19	N TOP BRACE DIAG/OOP	STRING	250mm	HORIZ
SP18	N TOP BRACE DIAG/OOP	STRING	250mm	HORIZ

<u>abbrev</u>	<u>IATIONS</u>
N	NORTH
S	SOUTH
E	EAST
W	WEST
BOT	BOTTOM
MID	MIDDLE
COL	COLUMN
BR	BRACE
PL	PLATE
00P	OUT OF PLANE
IP	IN PLANE
DIAG	DIAGONAL
DISP	DISPLACEMENT
ROT	ROTATION
PT	POINT
WP	WORK POINT

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POTE	NTIOMETER DESIGNAT	IONS		
•	DESCRIPTION	TYPE	RANGE +/-	FREEDOM
L1	S BASE GP OOP BOT	TML	100mm	
L2	S BASE GP OOP TOP	TML	100mm	
L4	S MID GP OOP CENTER	TML	50mm	HORIZ
L5	S MID GP OOP N EDGE	TML	100mm	HORIZ
L6	S MID GP OOP TOP EDGE	TML	100mm	HORIZ
<u>L7</u>	ALUMINUM PL OOP S	TML	25mm	
1.0	A	T. ()	0.5	
L9	ALUMINUM PL OOP N	TML	25mm	
L10	N BASE GP OOP BOT	TML	50mm	
L11	N BSAE GP OOP TOP	TML	100mm	
L13	N MID GP OOP CENTER	TML	50mm	HORIZ
L13	N MID GP OOP CENTER	TML	100mm	HORIZ
L15	N MID GP OOP 3 EDGE	TML	100mm	HORIZ
L15	TOP BEAM DRIFT E SIDE	TEMPO	250mm	HONE
L17	TOP BEAM DRIFT W SIDE	TEMPO	250mm	
L18	TOP BEAM VERT DISP	TML	150mm	HORIZ
L19	BOT BEAM VERT DISP	TML	150mm	HORIZ
////////		111111111111111111111111111111111111111		///////////////////////////////////////
CD1	DESCRIPTION	TYPE	KANGE +/-	FREEDOM
SP1	TOP BEAM S OOP ROT	STRING	125mm	HORIZ
SP2	TOP BEAM MID OOP	STRING	125mm	HORIZ
SP3	TOP BEAM N OOP ROT S BOT BRACE DIAG/IP	STRING	125mm	HORIZ
SP4 SP5	S BOT BRACE DIAG/IP	STRING STRING	250mm	HORIZ
SP6	S TOP BRACE DIAG/OOP	STRING	250mm 250mm	HORIZ HORIZ
SP7	S TOP BRACE DIAG/OOP	STRING	250mm	HORIZ
SP8	S TOP BRACE QUARTER PT	STRING	250mm	HORIZ
SP9	S TOP GP OOP BOT EDGE	STRING	125mm	HORIZ
SP10	S TOP GP OOP S EDGE	STRING	125mm	HORIZ
SP11	S TOP GP OOP CENTER	STRING	125mm	HORIZ
SP12	MID TOP GP OOP	STRING	125mm	HORIZ
SP13	S BOT BEAM DRIFT E SIDE	STRING	250mm	
SP14	S BOT BEAM DRIFT W SIDE	STRING	250mm	
SP15	N BOT BRACE DIAG/IP	STRING	250mm	HORIZ
SP16	N BOT BRACE DIAG/IP	STRING	250mm	HORIZ
	,			
SP18	N TOP BRACE DIAG/OOP	STRING	250mm	HORIZ
SP19	N TOP BRACE DIAG/OOP	STRING	250mm	HORIZ
SP20	N TOP BRACE QUARTER PT	STRING	250mm	HORIZ
SP21	N TOP GP OOP BOT EDGE	STRING	125mm	HORIZ
SP22	N TOP GP OOP N EDGE	STRING	125mm	HORIZ
SP23	N TOP GP OOP CENTER	STRING	125mm	HORIZ
SP24	N BOT BEAM DRIFT WP	STRING	250mm	
SP25	N BOT BEAM DRIFT E SIDE	STRING	250mm	
SP26	N BOT BEAM DRIFT W SIDE	STRING	250mm	
SP27 SP28	S BOT BRACE OOP  N BOT BRACE OOP	STRING	125mm	
SP 28  ////////		STRING	250mm	  ///////////////////////////////////
•	DESCRIPTION	TYPE	RANGE +/-	FREEDOM
D1	S ANCHOR PL SLIP	DIAL	25mm	
D2	S ANCHOR PL UPLIFT	DIAL	25mm	
D3	S BASE PL SLIP	DIAL	25mm	
D4	S BASE PL UPLIFT	DIAL	25mm	
D5	N ANCHOR PL SLIP	DIAL	25mm	
<u>D6</u>	N ANCHOR PL UPLIFT	DIAL	25mm	
D7	N BASE PL SLIP	DIAL	25mm	
D8	N BASE PL UPLIFT	DIAL	25mm	
D9	ACTUATOR BASE PL UPLIFT	DIAL	25mm	

# IN-3

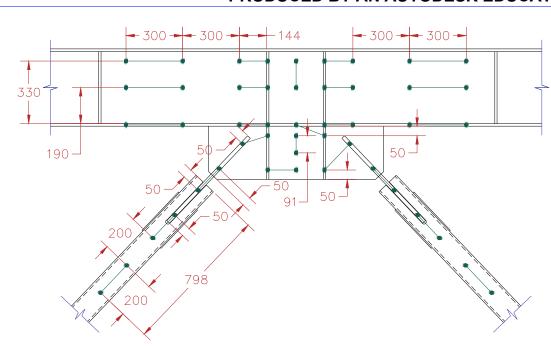


SCALE: 1mm = 50mm

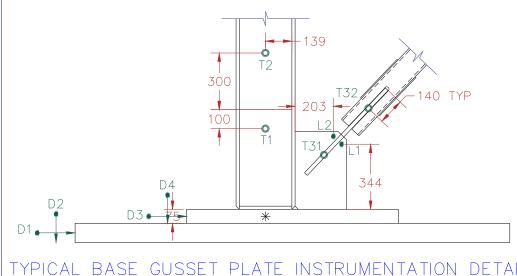
NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS
DESIGNED BY: ADS
DATE: 8/3/2013
CONTACT: ADSEN@UW.EDU

NCBF-INV-2 NON-SEISMIC CBF WITH IN-PLANE BUCKLING



BOTTOM BEAM GUSSET PLATE LED LOCATION DETAIL



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139 T5 100 T4 100 T8 T9 T9 T9 T3 100 T8 T9 T9

TYPICAL BEAM/COLUMN GUSSET PLATE INSTRUMENTATION DETAIL

## NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS
DESIGNED BY: ADS

DATE: 7/6/2013 CONTACT: ADSEN@UW.EDU IN-5

DWG:

N36

N34

N41 N42

N39<sup>™</sup>N40

N38 N37

N47

N45

N43

NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS DESIGNED BY: ADS DATE: 7/6/2013

CONTACT: ADSEN@UW.EDU

N48

N46

N44

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

IN-5

N23

N2'

N19

N24

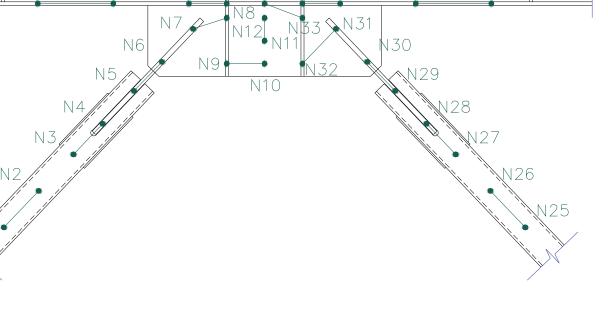
N22

N20

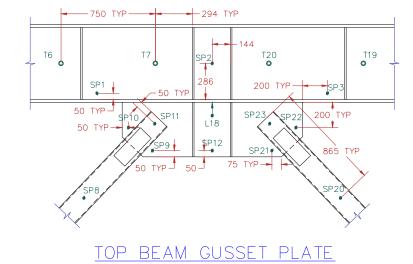
N17 N18

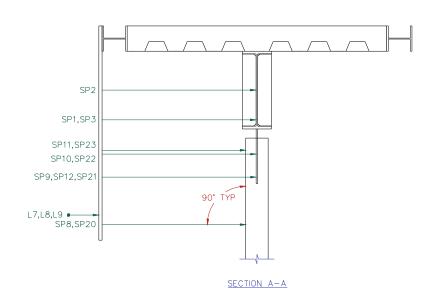
N15 N16

N13 N14

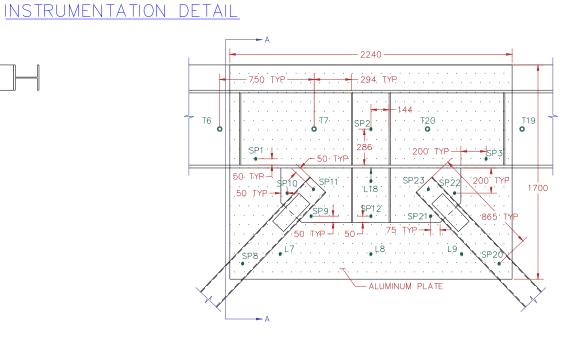


BOTTOM BEAM GUSSET PLATE LED NUMBERING





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DATE: 7/6/2013

CONTACT: ADSEN@UW.EDU

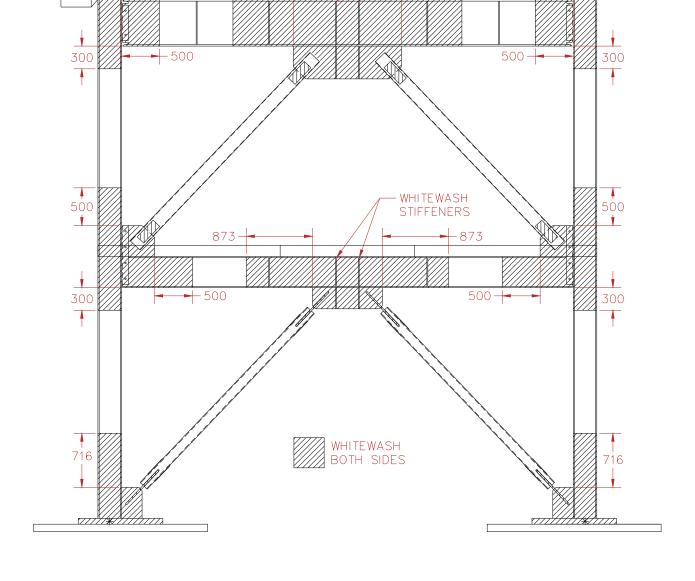
800

WHITEWASH STIFFENERS

-800

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**IN-8** 



WHITEWASH PLAN SCALE: 1mm = 50mm

NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS DESIGNED BY: ADS DATE: 7/6/2013 CONTACT: ADSEN@UW.EDU

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1