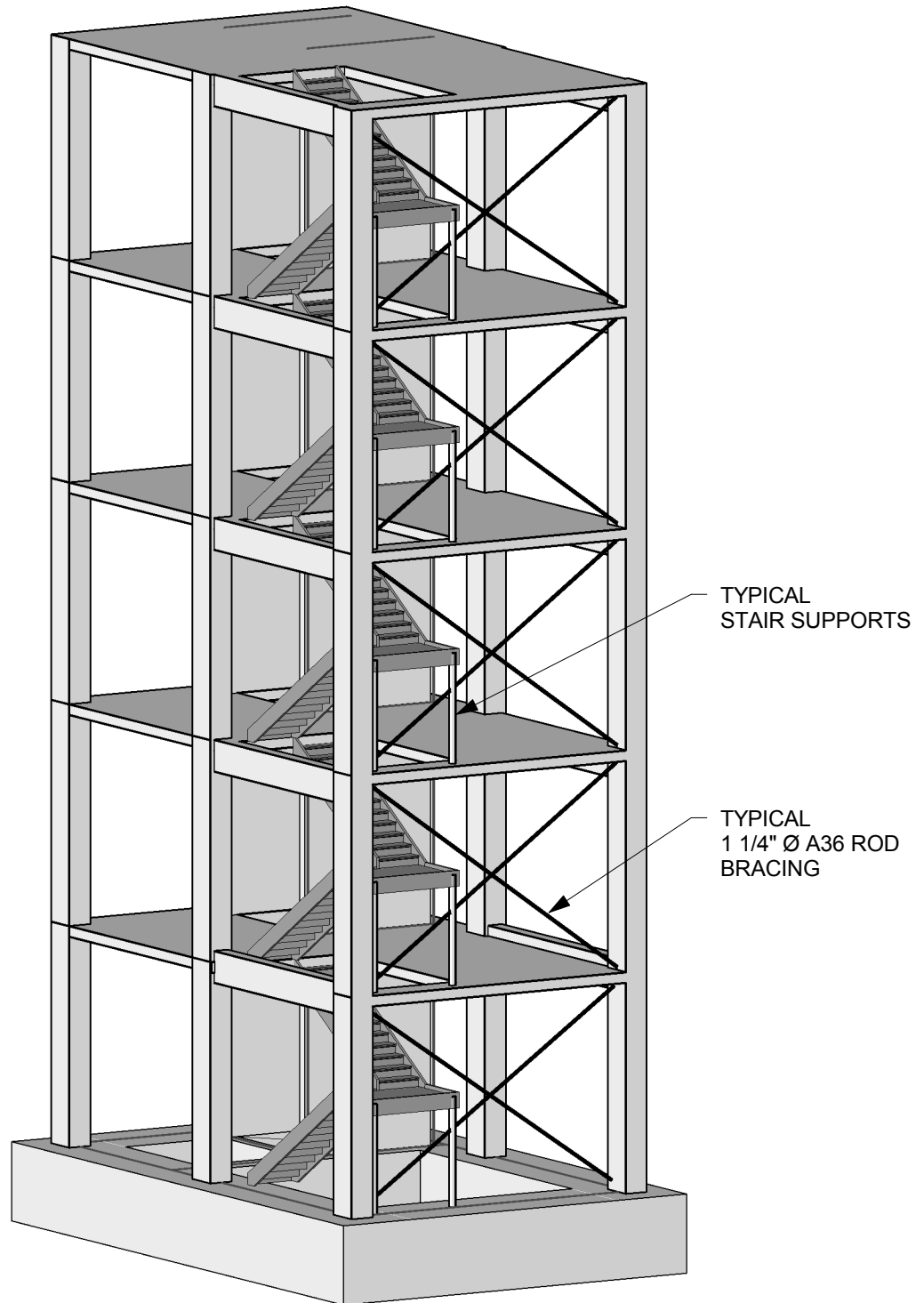




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S Funding By EAB	05.05.2011	Bob Englekirk	<i>Robert Englekirk</i>
BIS Funding By BNCS			

Structural Building Model

TEST SPECIMEN A

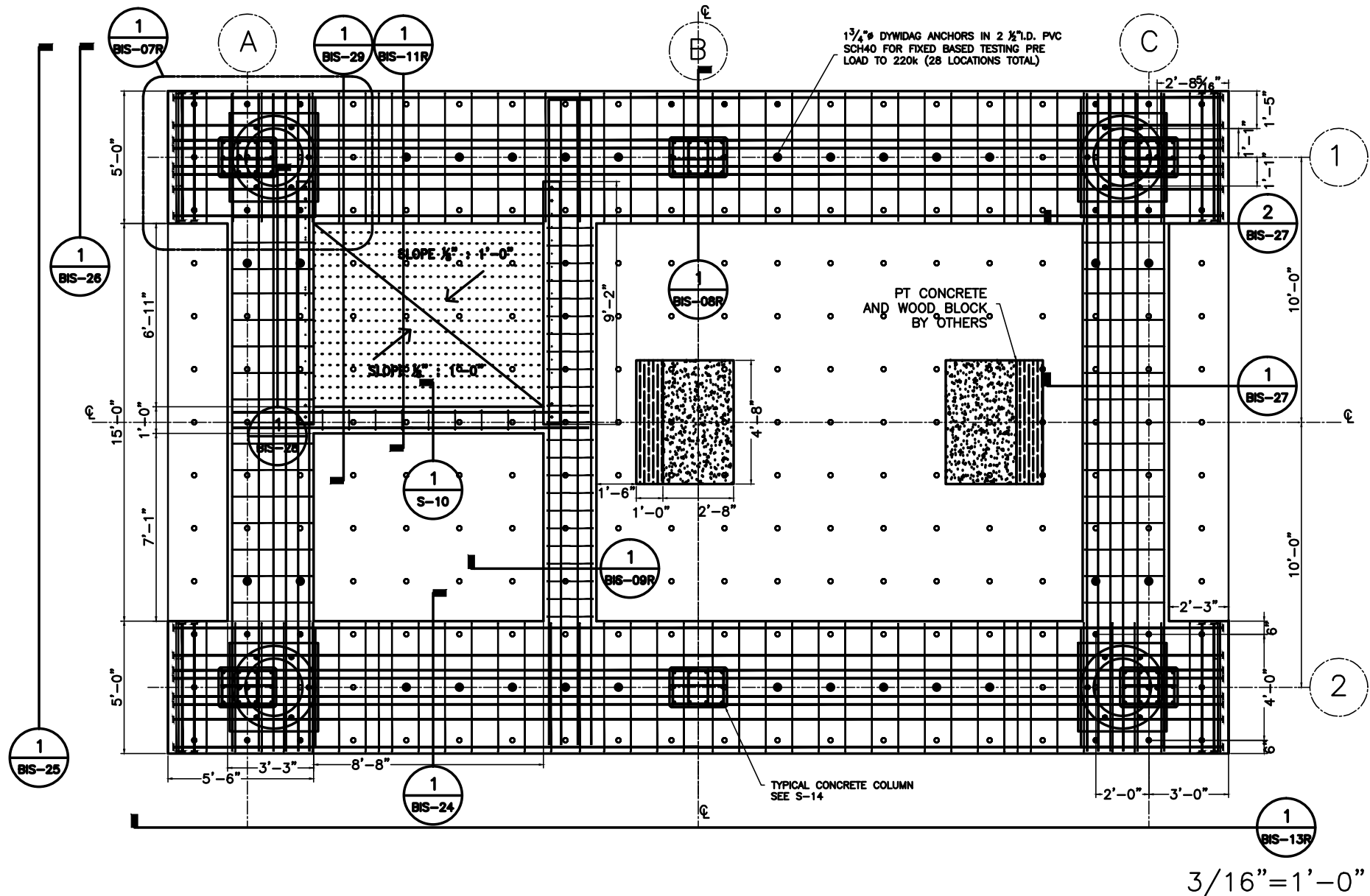
Project Number
604-92

Construction Documents

Figure

S-00

Date
05.05.2011



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BIS FUNDING BY BNCS	05.05.2011	JOSE RESTREPO	

FOUNDATION PLAN
BIS-01R

FIGURE

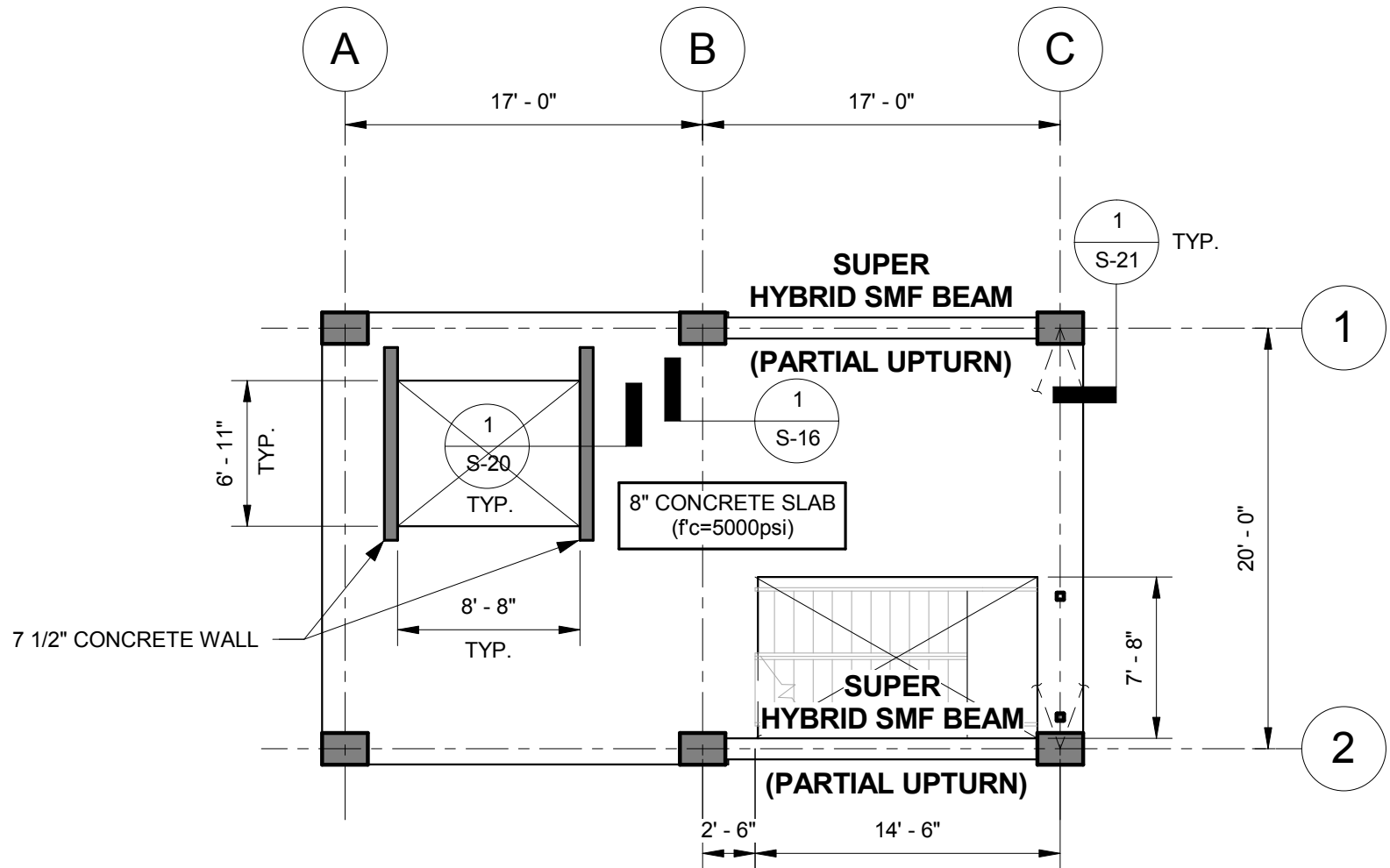
BIS-01R

BASE ISO-OPTION 1

JOB NUMBER
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BIS Funding BNCS			

Level 2 Framing Plan

Figure

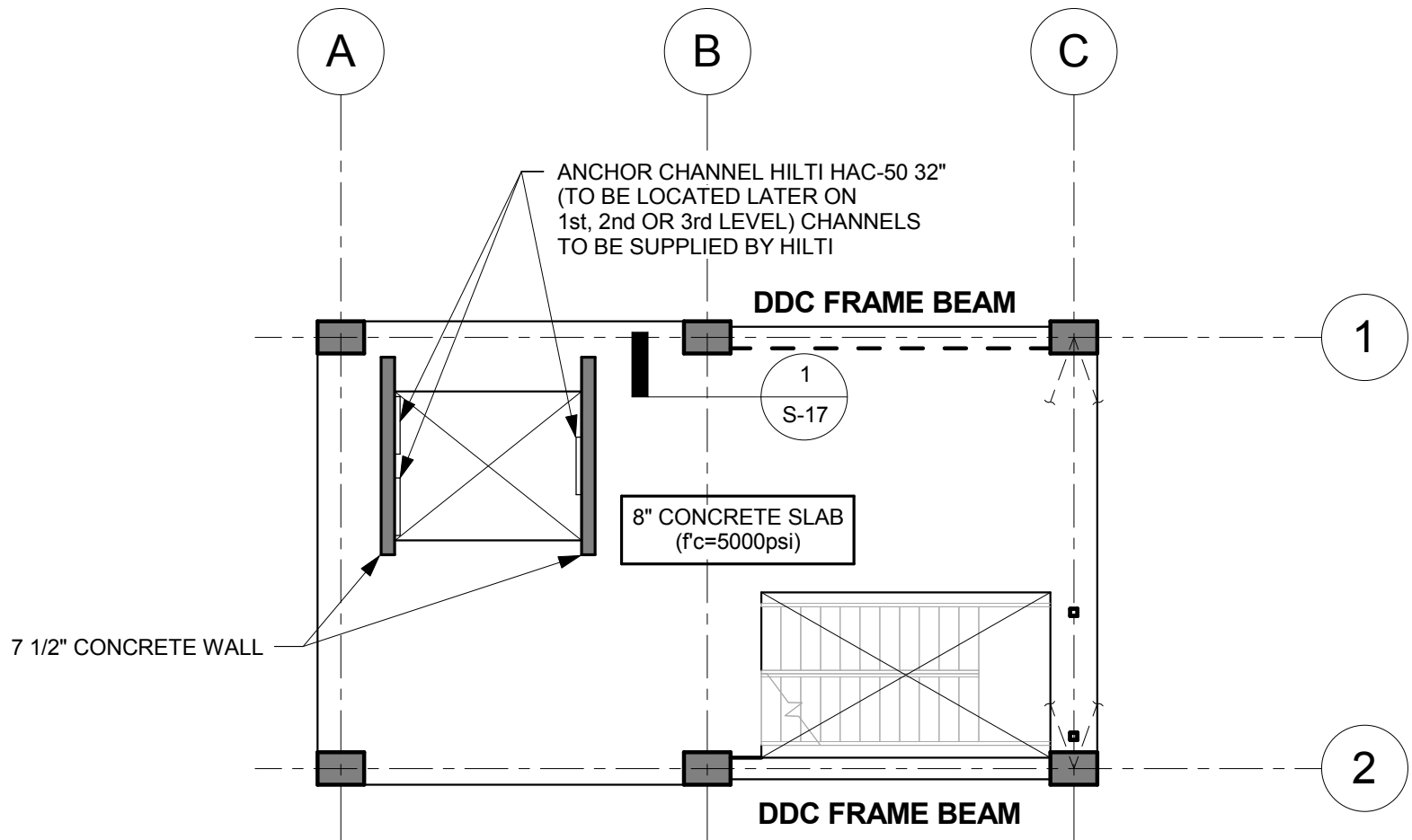
TEST SPECIMEN A

S-02

Project Number
604-92

Date
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Construction Documents



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BIS Funding BNCS			

Level 3 Framing Plan

Figure

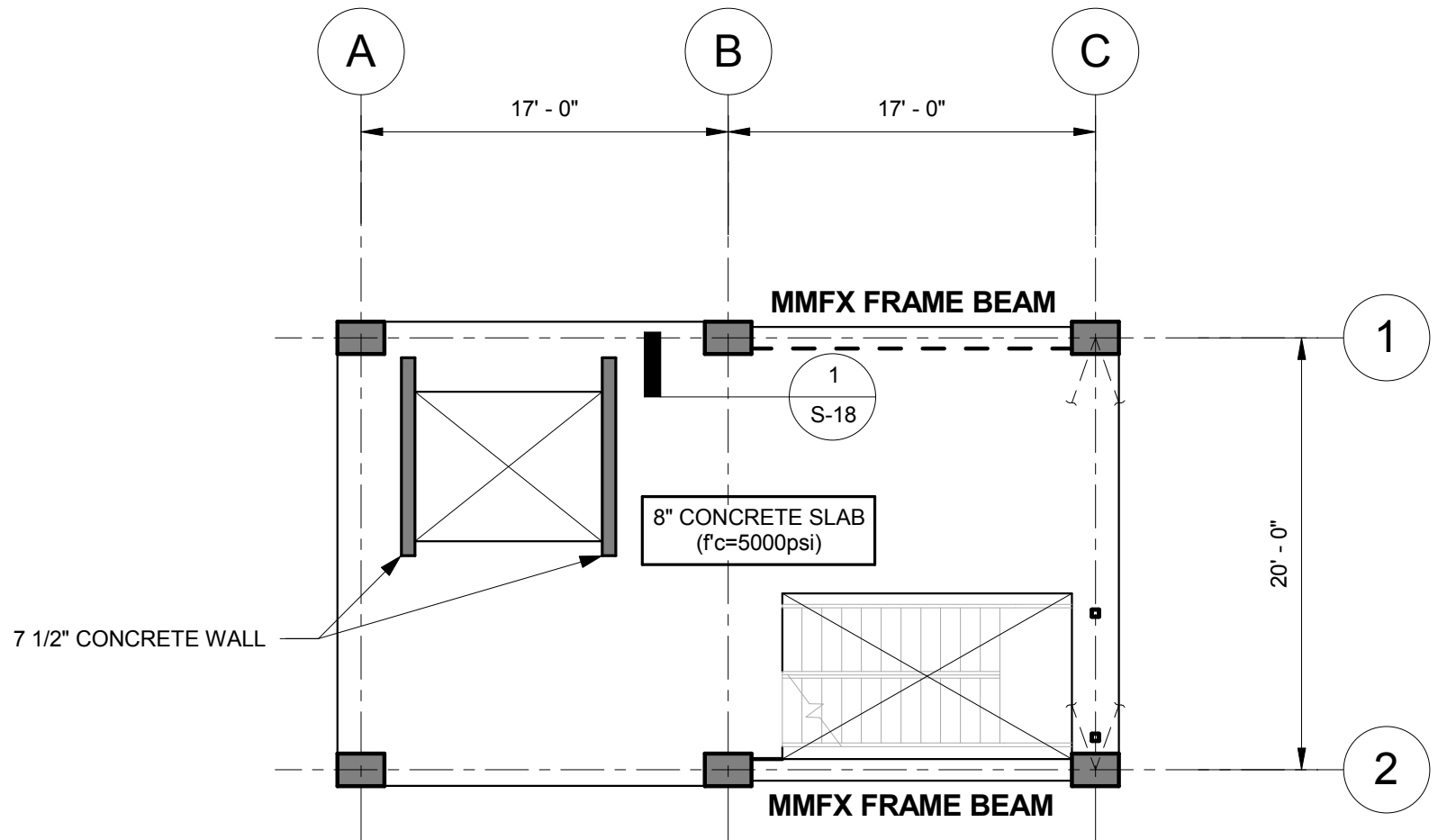
TEST SPECIMEN A

S-03

Project Number
604-92

Date
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Construction Documents



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Level 4 Framing Plan

TEST SPECIMEN A

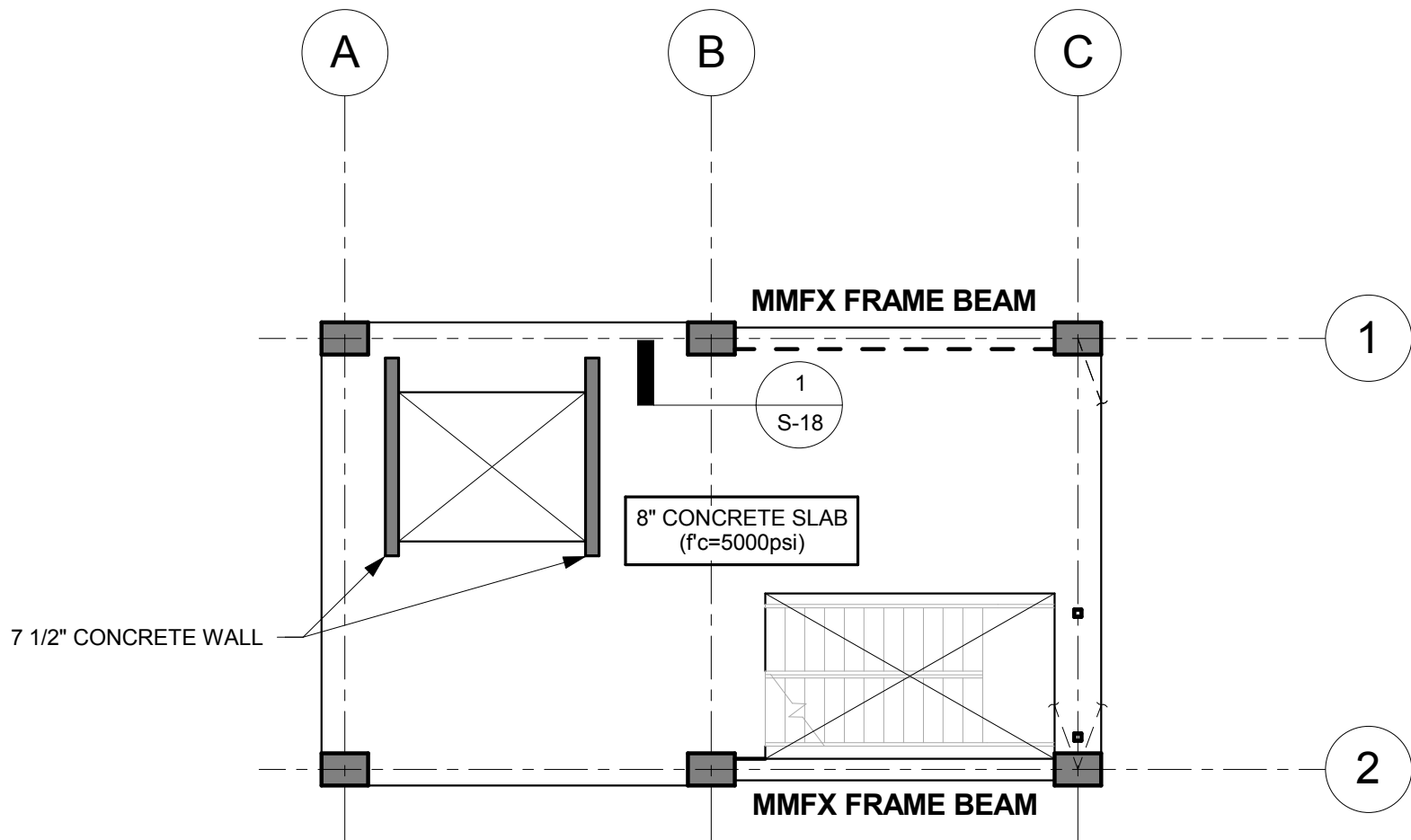
Project Number
604-92

Construction Documents

Figure

S-04

Date
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Level 5 Framing Plan

Figure

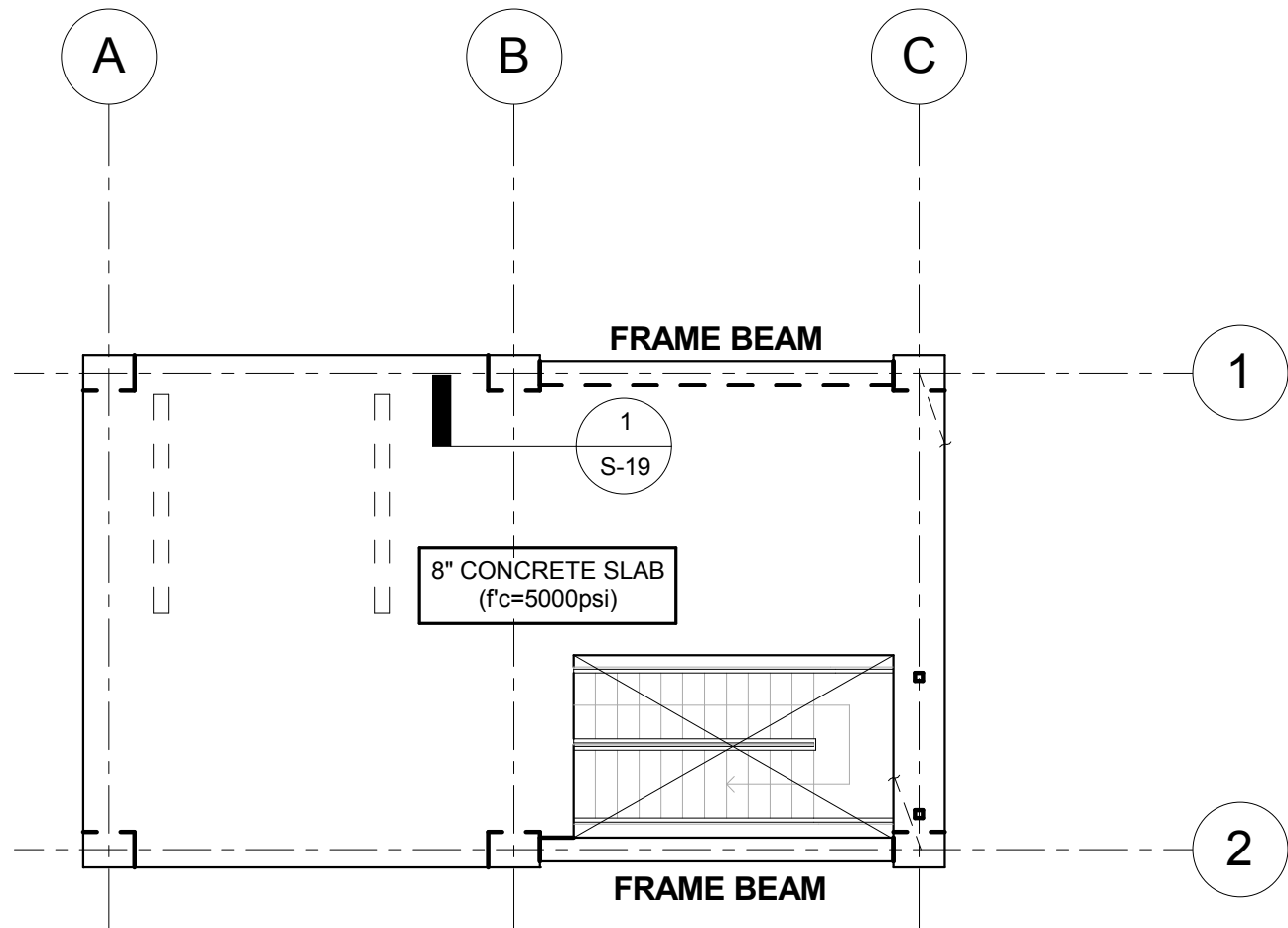
TEST SPECIMEN A

S-05

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Roof Framing Plan

Figure

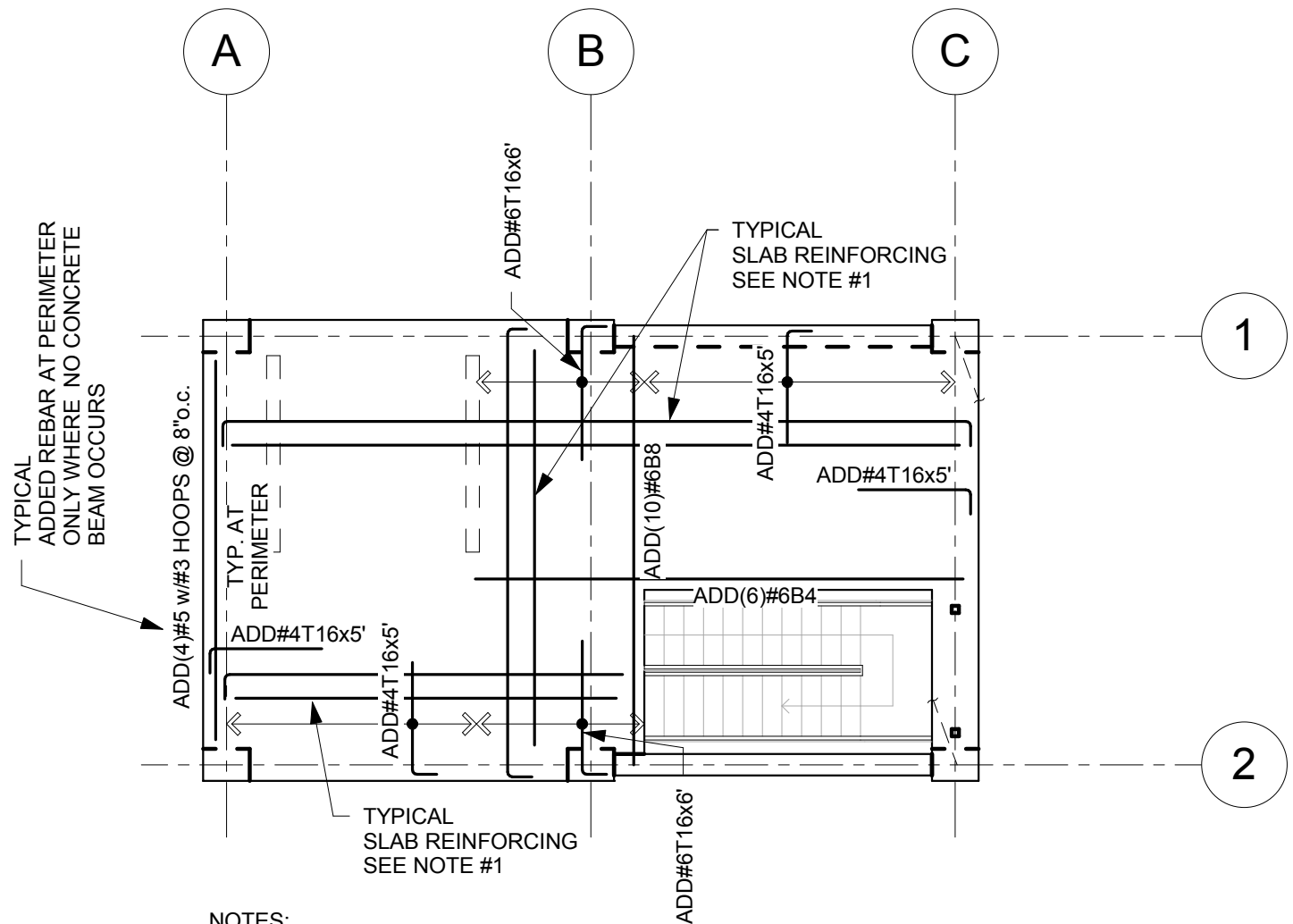
TEST SPECIMEN A

S-06

Project Number
604-92

Date
05.05.2011

Construction Documents



NOTES:

1. TYPICAL SLAB REINFORCING SHALL BE #5@8 BOTTOM EA. WAY AND #4@16 TOP EA. WAY ($f_y=60\text{ksi}$).
2. ALL REINFORCING NOTED ON PLAN IS ADDED REINFORCING.
3. ALL REINFORCING SHALL BE PLACED AS FOLLOWS:
 - A. NORTH-SOUTH DIRECTION OUTSIDE LAYER.
 - B. EAST-WEST DIRECTION INSIDE LAYER.

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Roof Slab Reinforcing Plan

Figure

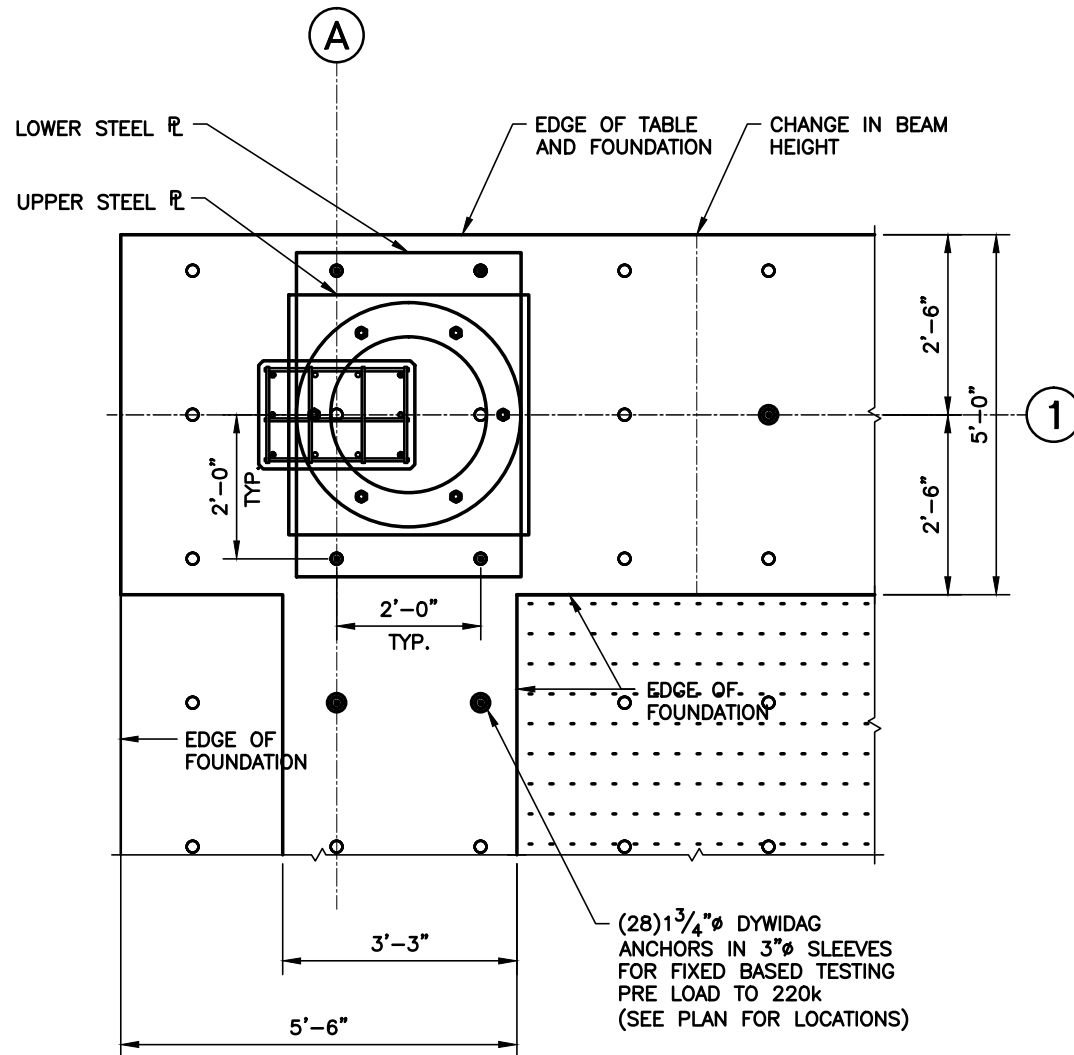
TEST SPECIMEN A

S-06A

Project Number
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Date
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3/8" = 1'-0"



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FOUNDATION DETAIL
BIS-07R

FIGURE

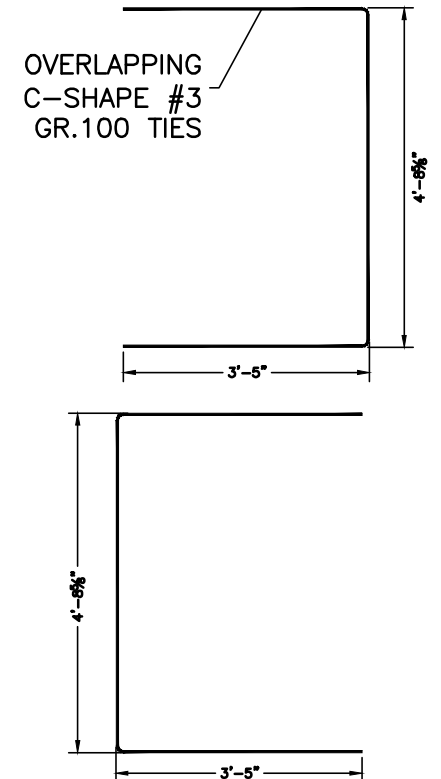
BIS-07R

BASE ISO-OPTION 1

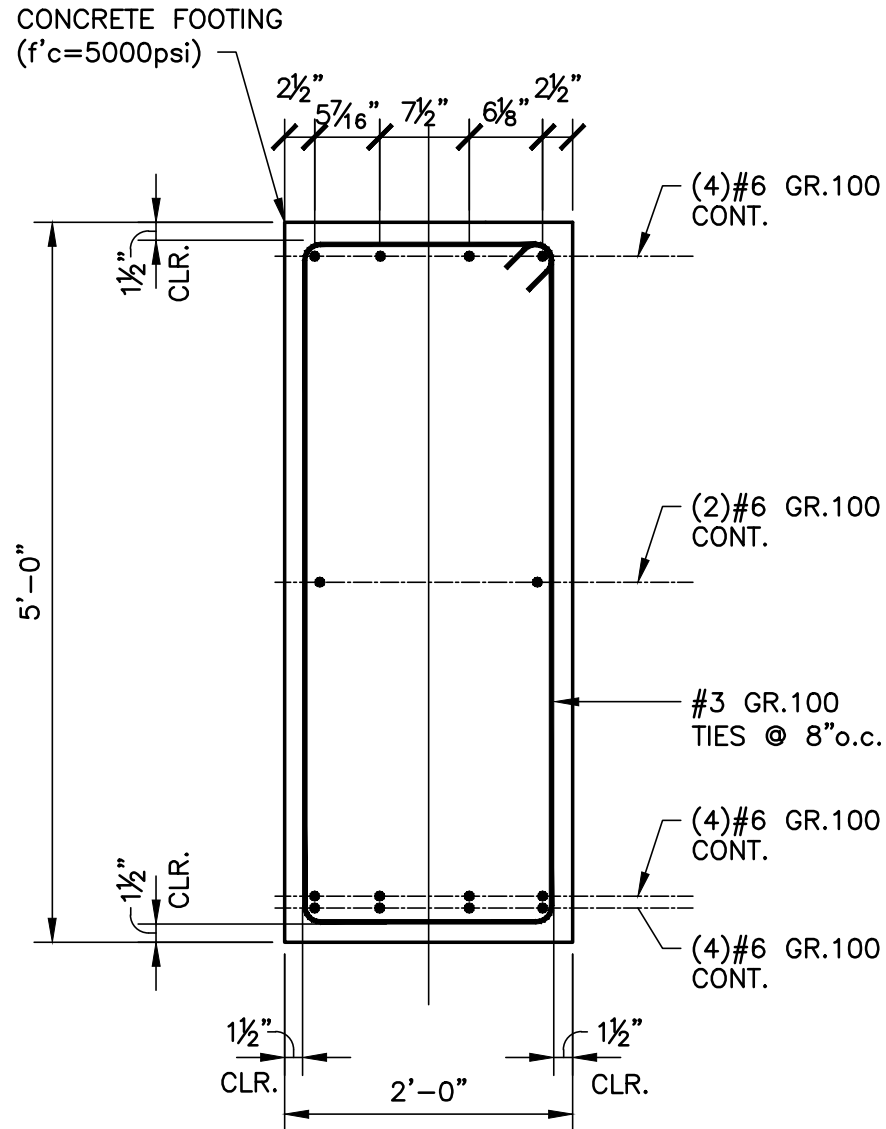
JOB NUMBER
604-92

DATE
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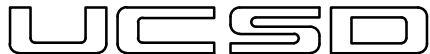
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Construction Documents



$\frac{3}{4}" = 1'-0"$



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FOOTING DETAIL
BIS-09R

FIGURE

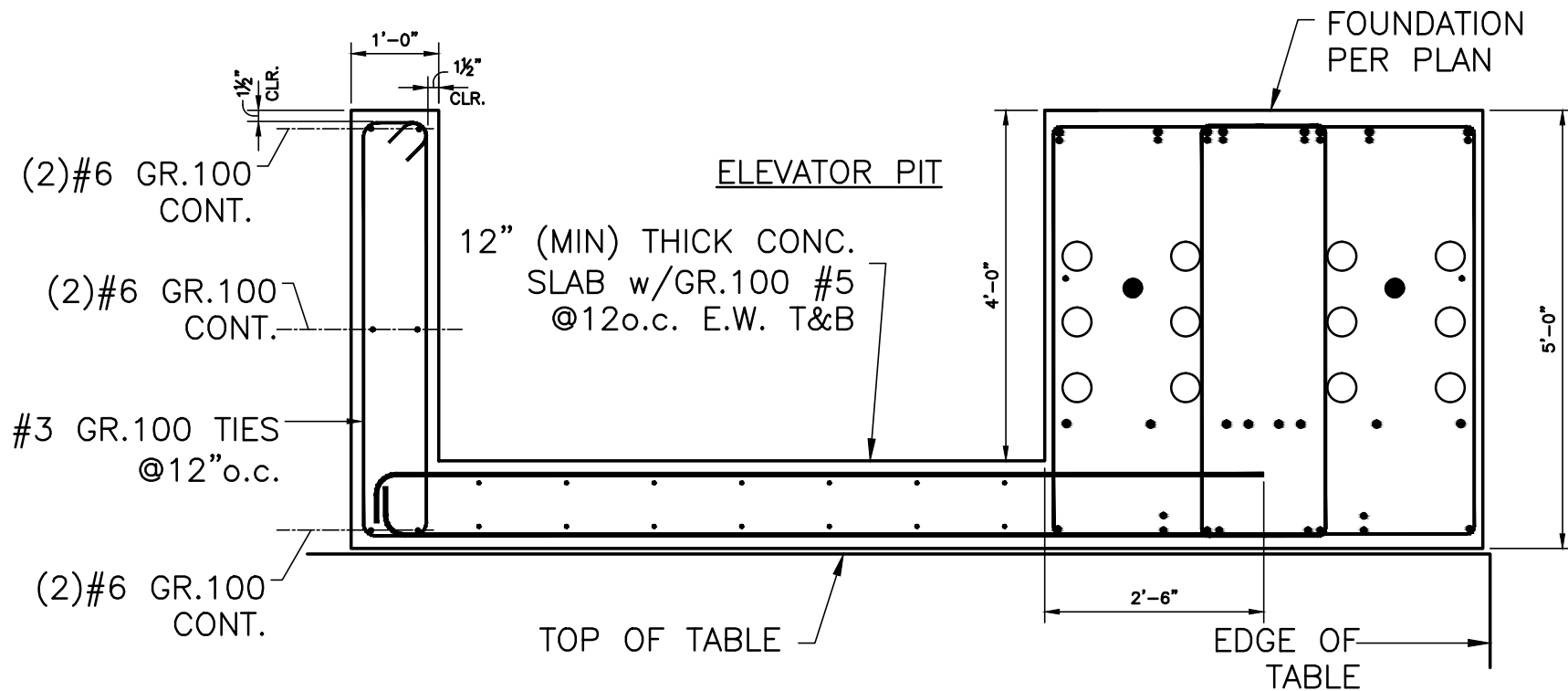
BIS-09R

BASE ISO-OPTION 1

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05.05.2011

Construction Documents



NOTE:

PROVIDE $\text{R } 1\frac{1}{2} \times 8 \times 0'-8$ WITH (4) $1\frac{1}{2}" \phi$ NELSON STUDS (8" EMBED.) AT ELEVATOR RAILS. PLATES AND HARDWARE TO BE PROVIDED BY ELEVATOR SUBCONTRACTOR.

$1\frac{1}{2}" = 1'-0"$



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ELEVATOR PIT SECTION
BIS-11R

FIGURE

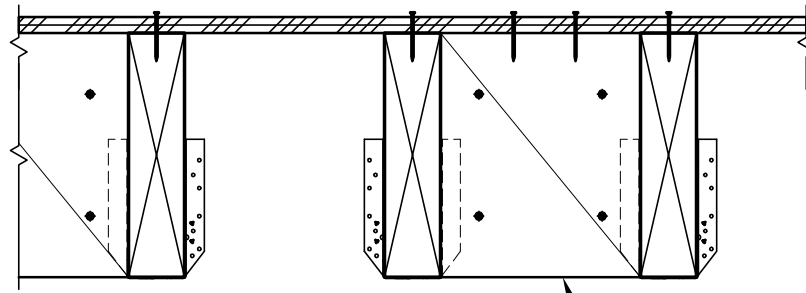
BIS-11R

BASE ISO-OPTION 1

JOB NUMBER
604-92

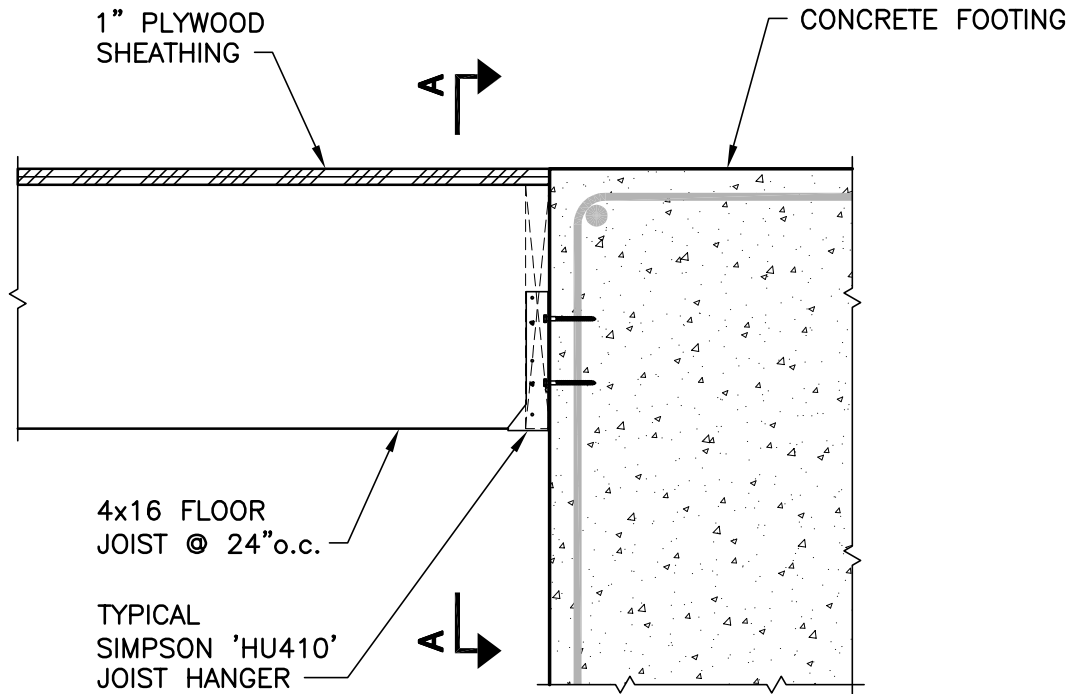
DATE
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Construction Documents



TYPICAL
2x BLOCKING @ 48"o.c.
w/(4)HILTI KH-EZ 1/4"x2 5/8"
AT EACH BLOCK

SECTION A-A



1"=1'-0"

TYPICAL WOOD FLOOR DETAIL

1

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BIS Funding by BNCS			

Typical Level 1
Wood Floor Framing Detail

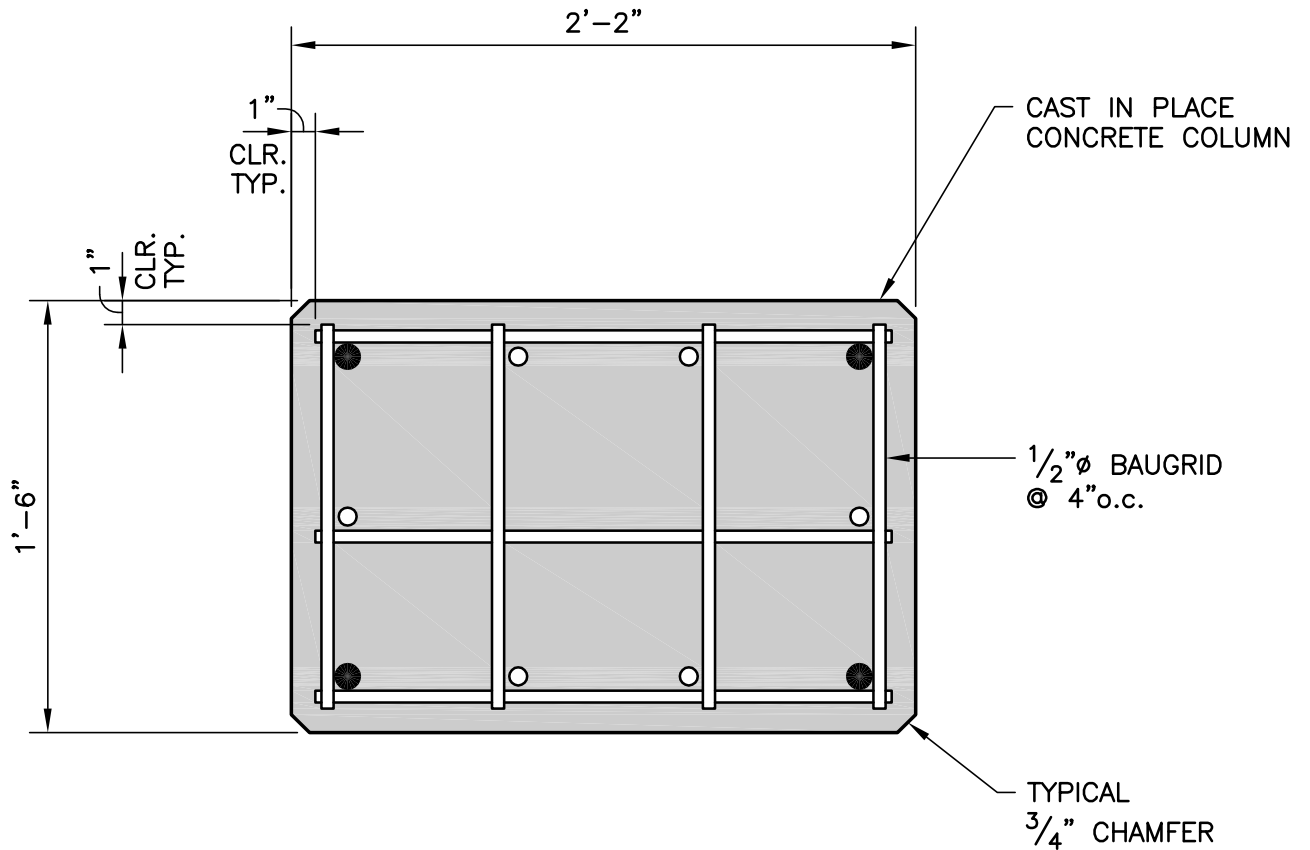
TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE
S-12

DATE
05.05.2011

Construction Documents



CONCRETE COLUMN 18"x26" ($f'_c=5000\text{psi}$)

● INDICATES (4)#9 VERTICAL BARS

○ INDICATES (6)#6 VERTICAL BARS

1 1/2" = 1'-0"

TYPICAL COLUMN DETAIL

1

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Typical Concrete Column
Reinforcing Detail

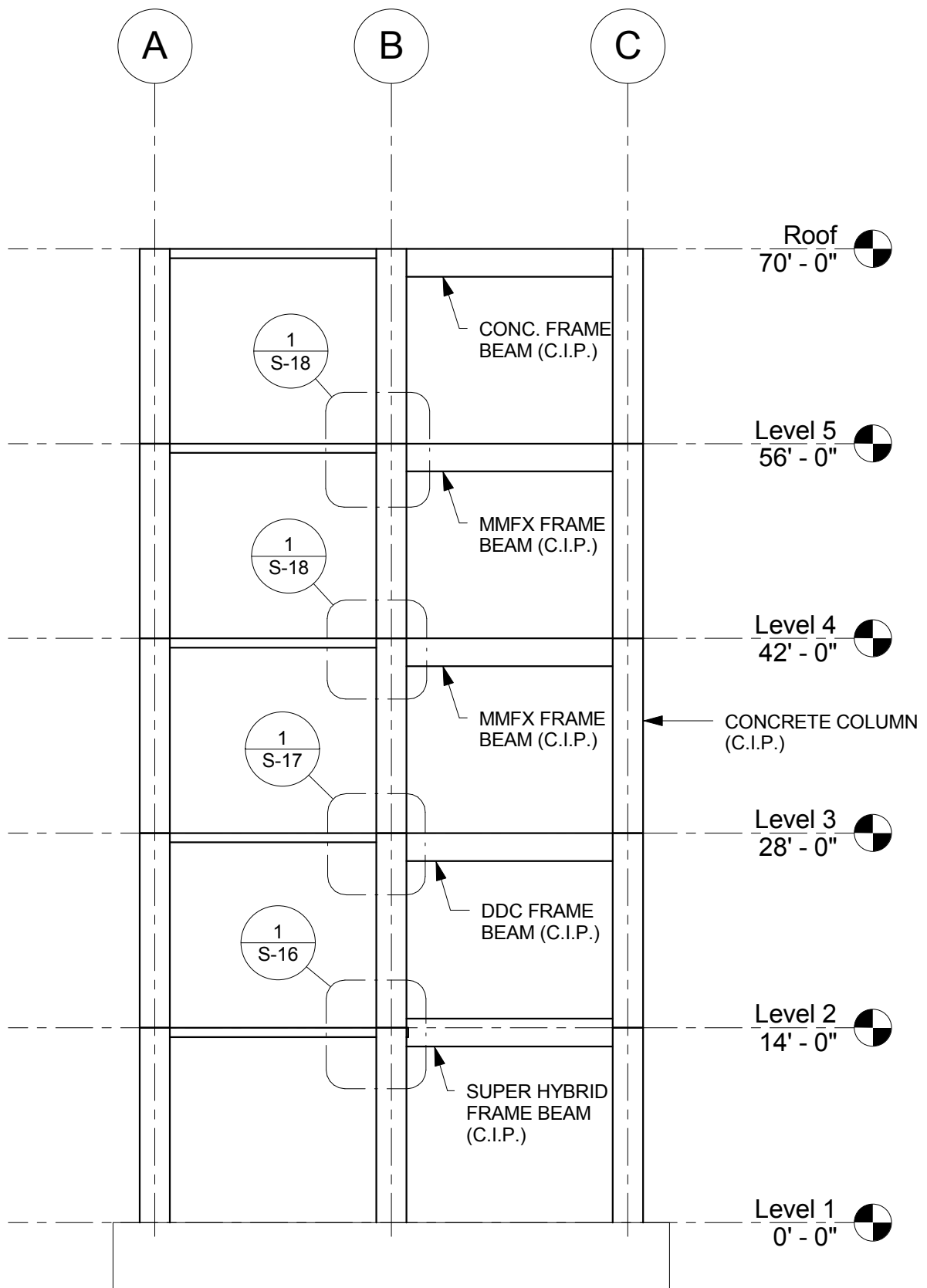
TEST SPECIMEN A

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DATE
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Construction Documents

FIGURE
S-014



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Typical Concrete Frame
Elevation

TEST SPECIMEN A

Project Number
604-92

Construction Documents

Figure

S-15

Date
05.05.2011

CAST-IN-PLACE
CONCRETE COLUMN

UPTURNED CONC.
HYBRID SMF BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (6) TIES
FROM COLUMN FACE

C.I.P. CONC.
COL. PER PLAN

CONC. SLAB
PER PLAN

TYPICAL
DUCTILE ROD
SEE S-16A

(4) $1\frac{1}{2}$ " ϕ PT

CL BEAM

2'-4"

2"

10"

CL SLAB

ALTERNATE
90° HOOK AT
DOUBLE
CROSS TIES

4"

1'-0"

SECTION B-B

10"

2"
CLR.

UPTURNED CONC. HYBRID
SMF BEAM ($f'_c=5000\text{psi}$)
w/(2)#7T&B

(15)#4 TIES @ 4" o.c. AT
COL. FACE REMAINING
TIES @ 6" o.c.

$\frac{3}{4}$ " = 1'-0"

SUPER HYBRID MOMENT FRAME DETAIL

1

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Super Hybrid Moment Frame
Detail

FIGURE

S-16

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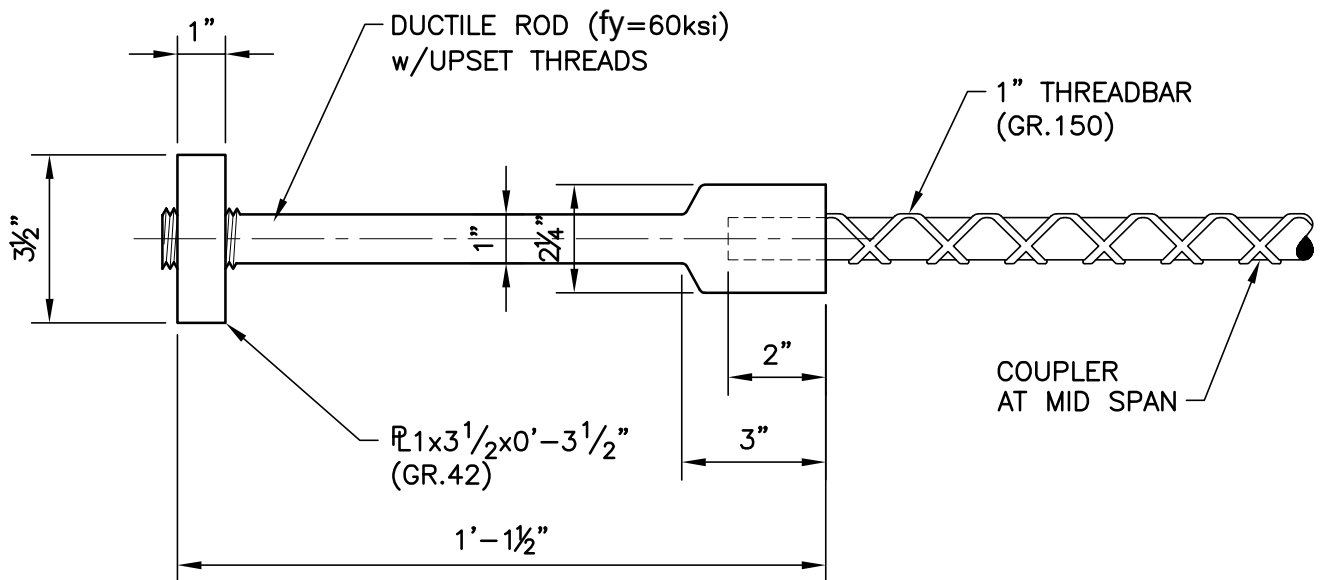
TEST SPECIMEN A

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BIS Funding by BNCS			

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NOTE:

DUCTILE ROD ASSEMBLY SHALL BE TESTED TO T_{max}.

3"=1'-0"

HYBRID SMF DUCTILE ROD DETAIL

1

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Super Hybrid Moment Frame
Ductile Rod Detail

TEST SPECIMEN A

JOB NUMBER
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Construction Documents

FIGURE

S-16A

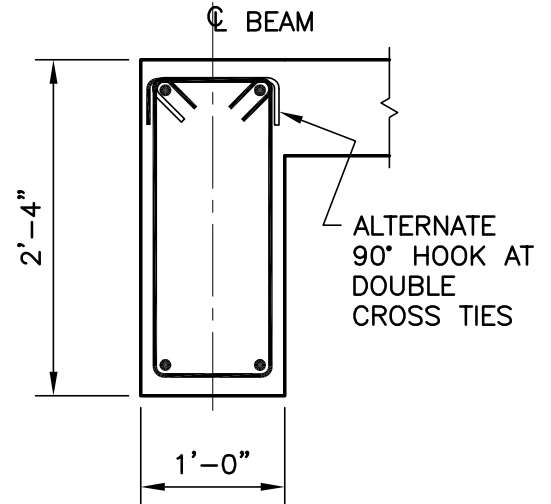
DATE
05.05.2011

CAST-IN-PLACE
CONCRETE COLUMN

DDC FRAME BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (6) TIES
FROM COLUMN FACE



SECTION B-B

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN

DUCTILE ROD
CONNECTOR
SEE S-17A

DDC FRAME BEAM
($f'_c=5000\text{psi}$)
w/(2)#8T&B
(15)#4 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 6"o.c.

$\frac{3}{4}"=1'-0"$

DDC MOMENT FRAME DETAIL

1

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DDC Moment Frame Detail

FIGURE

S-17

TEST SPECIMEN A

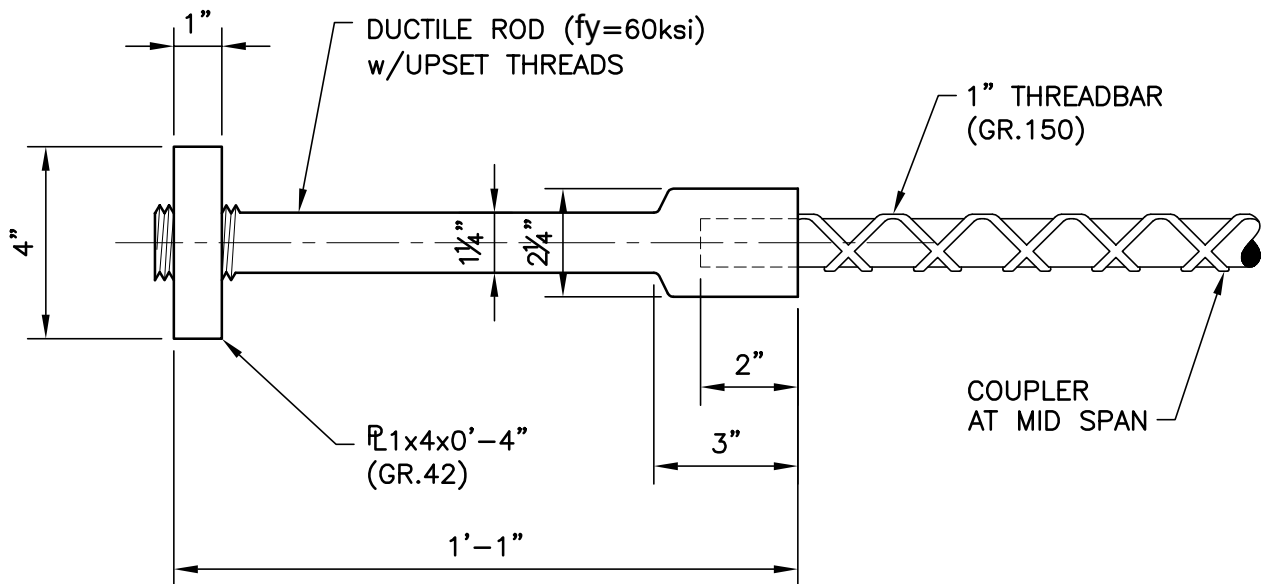
JOB NUMBER
604-92

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NOTE:

DUCTILE ROD ASSEMBLY SHALL BE TESTED TO T_{max}.

3"=1'-0"

DDC FRAME DUCTILE ROD DETAIL

1

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DDC Moment Frame Ductile
Rod Detail

TEST SPECIMEN A

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FIGURE

S-17A

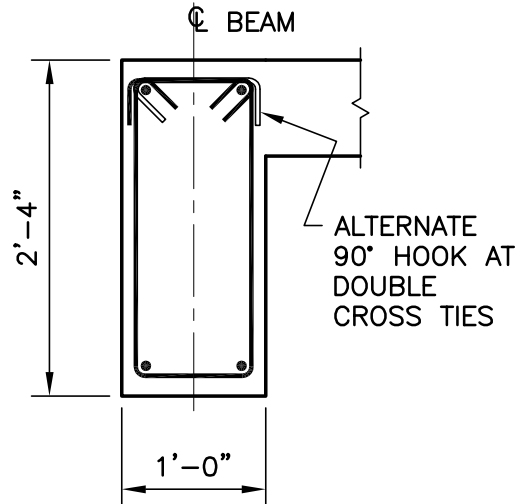
DATE
05.05.2011

CAST-IN-PLACE
CONCRETE COLUMN

MMFX CONC. FRAME
BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (5) TIES
FROM COLUMN FACE



SECTION B-B

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN

4'-0"

A

A

2"
CLR.

MMFX CONC. FRAME BEAM
w/(2)#7T&B ($f_y = 120\text{ksi}$)
(15)#4 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 6"o.c.

$\frac{3}{4}" = 1'-0"$

CONVENTIONAL REINFORCED MMFX MOMENT FRAME DETAIL

1

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Conventional Reinforced MMFX
Moment Frame Detail

FIGURE

S-18

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TEST SPECIMEN A

JOB NUMBER
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05.05.2011

Construction Documents

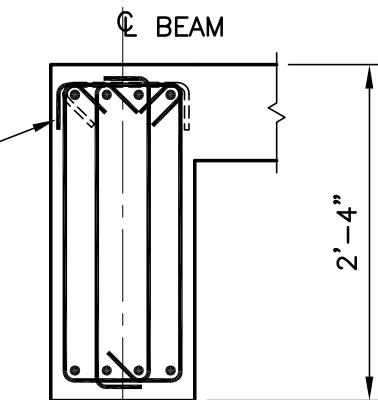
CAST-IN-PLACE
CONCRETE COLUMN

CONC. FRAME BEAM

NOTE:
PROVIDE FORM SAVER
ANCHORS FOR SLAB BARS

SECTION A-A

ALTERNATE
90° HOOK

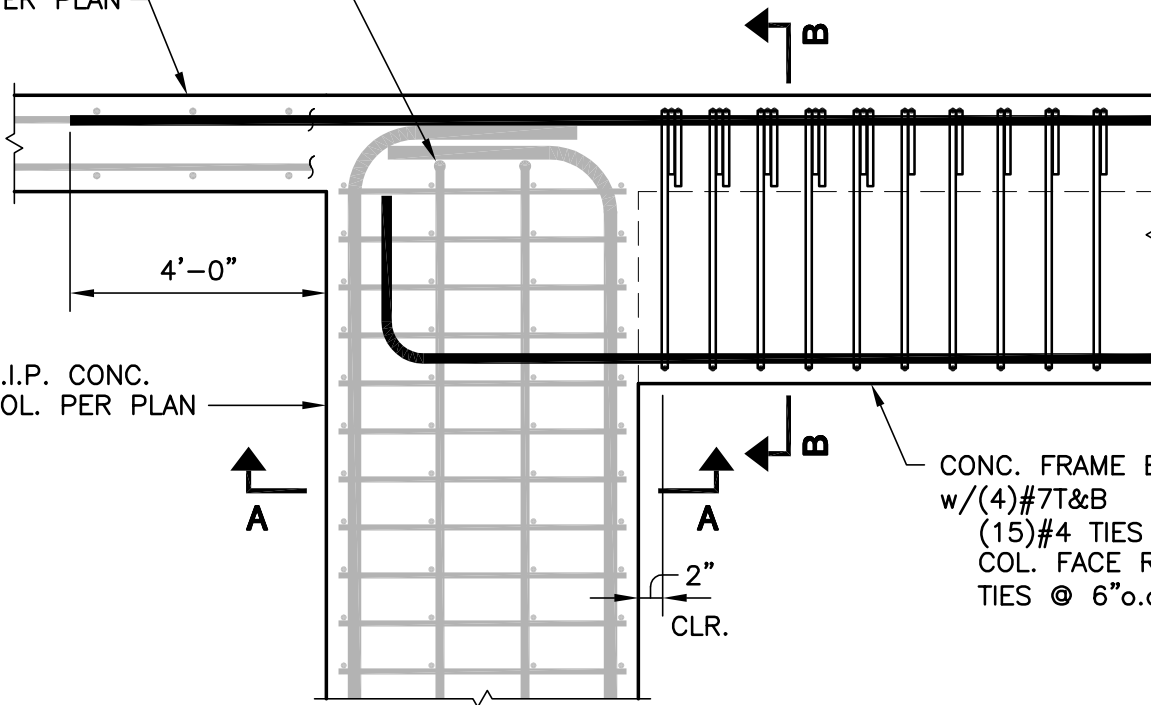


SECTION B-B

PROVIDE 90° HOOK

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN



CONC. FRAME BEAM
w/(4)#7T&B
(15)#4 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 6"o.c.

$\frac{3}{4}" = 1'-0"$

CONVENTIONAL REINFORCED MOMENT FRAME DETAIL

1

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Conventional Reinforced Moment
Frame Detail

TEST SPECIMEN A

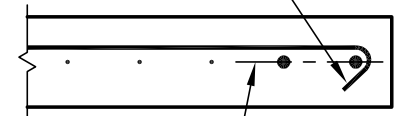
JOB NUMBER
604-92

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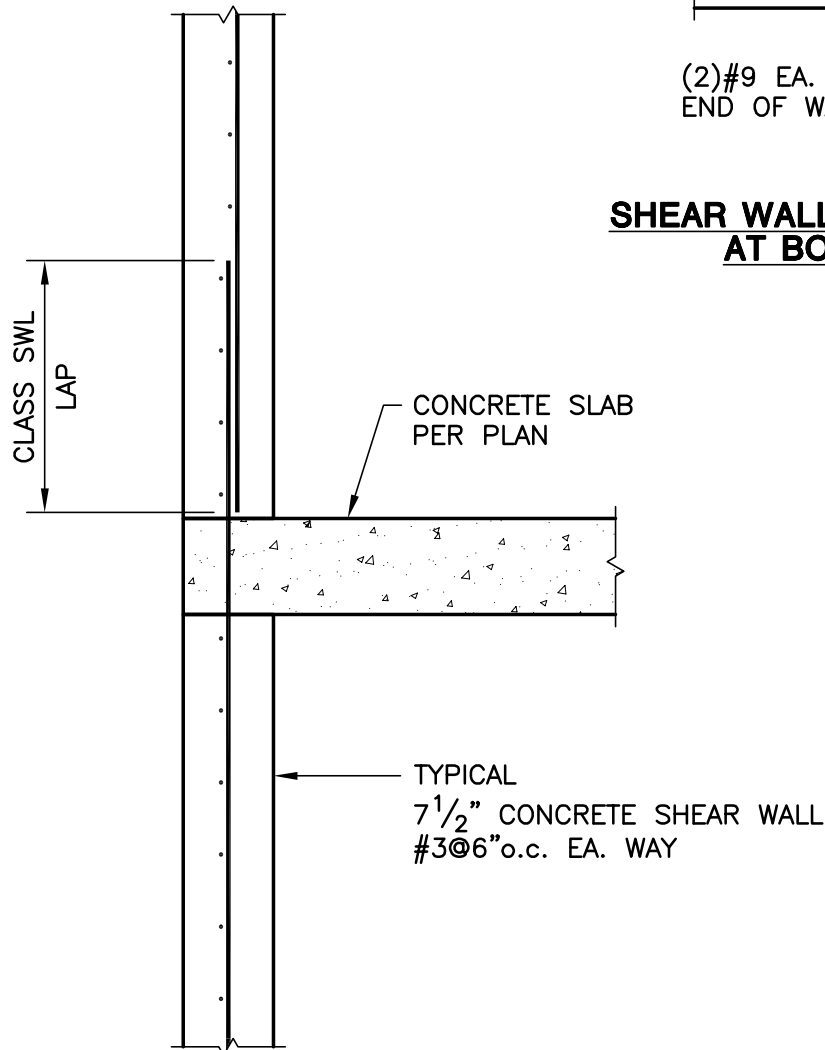
FIGURE
S-19

TYPICAL
90° STANDARD
HOOK AT ENDS



(2)#9 EA.
END OF WALL

SHEAR WALL REINFORCING AT BOUNDARY



$\frac{3}{4}" = 1' - 0"$

TYPICAL SHEAR WALL DETAIL

1

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Typical Shear Wall Detail

FIGURE

S-20

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BIS Funding by BNCS			

TEST SPECIMEN A

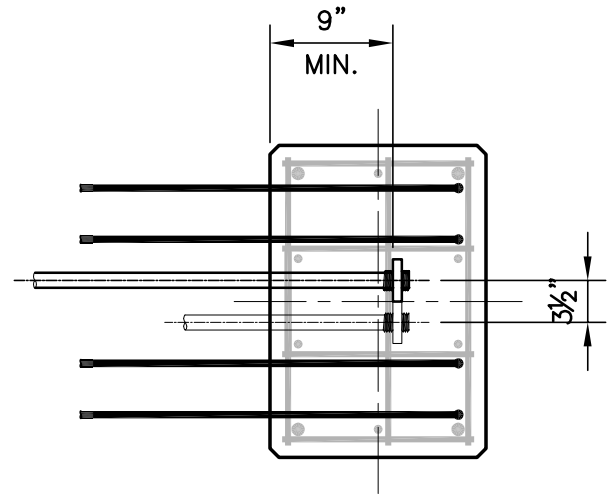
JOB NUMBER
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DATE
05.05.2011

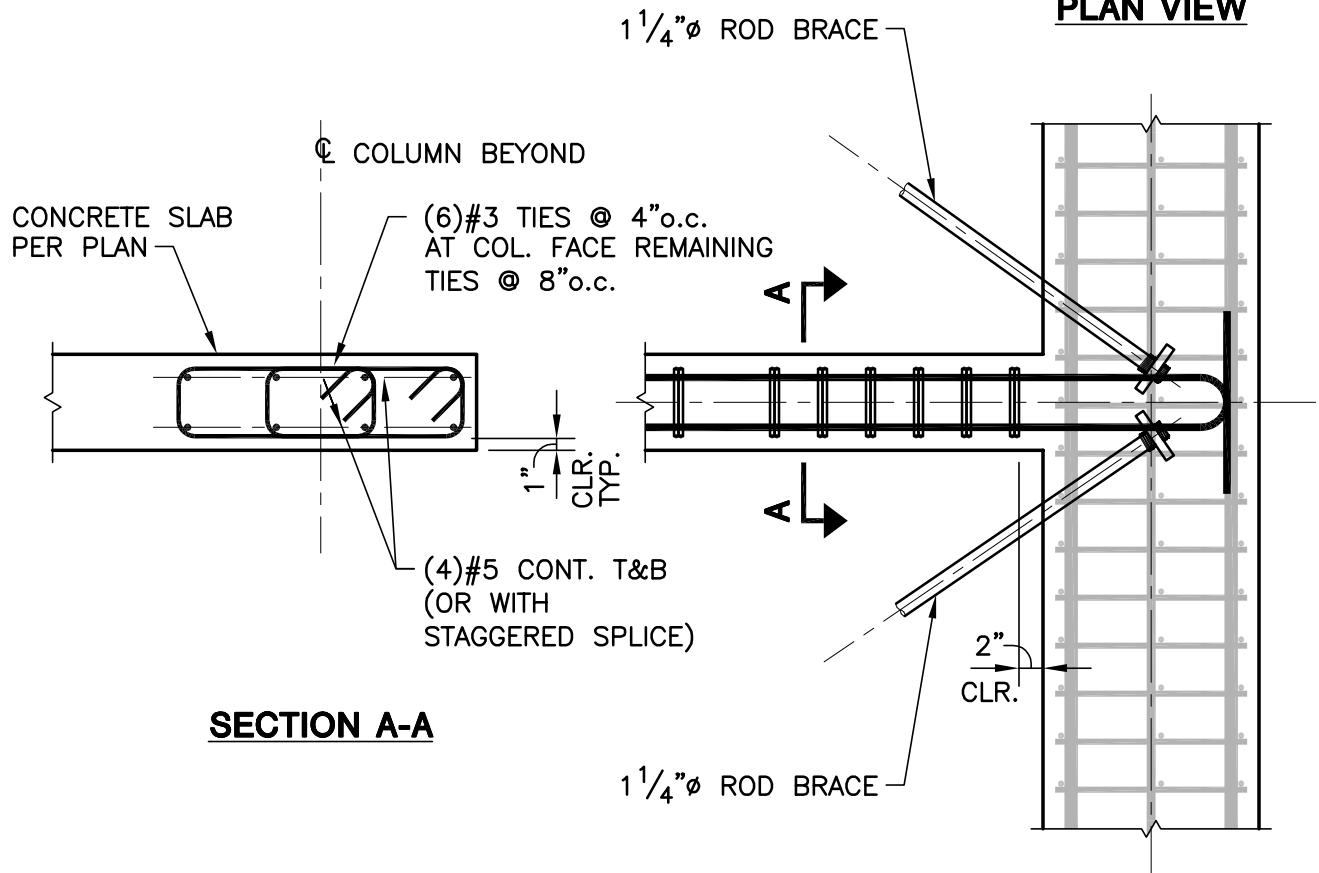
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NOTE:
REMOVE CROSS TIES ON COLUMN
BAUGRID WHERE IN CONFLICT
WITH ROD BRACE.



PLAN VIEW



SECTION A-A

$\frac{3}{4}'' = 1'-0''$

TYPICAL ROD BRACING DETAIL

1

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Typical Rod Bracing Detail

FIGURE

S-21

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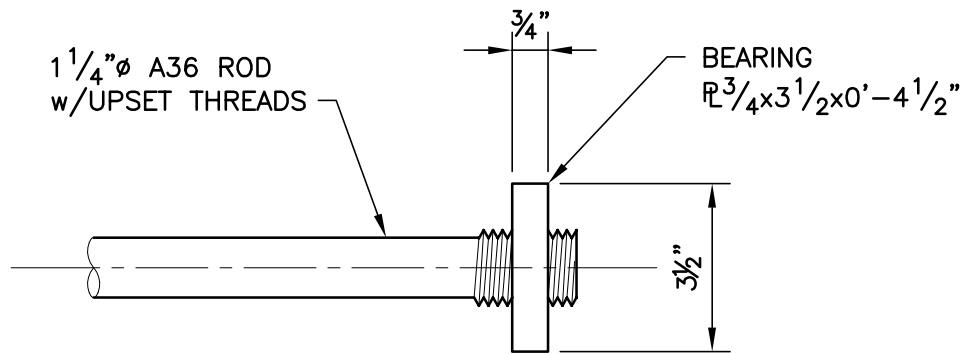
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S Funding By EAB	05.05.2011	Bob Englekirk	
BIS Funding by BNCS			

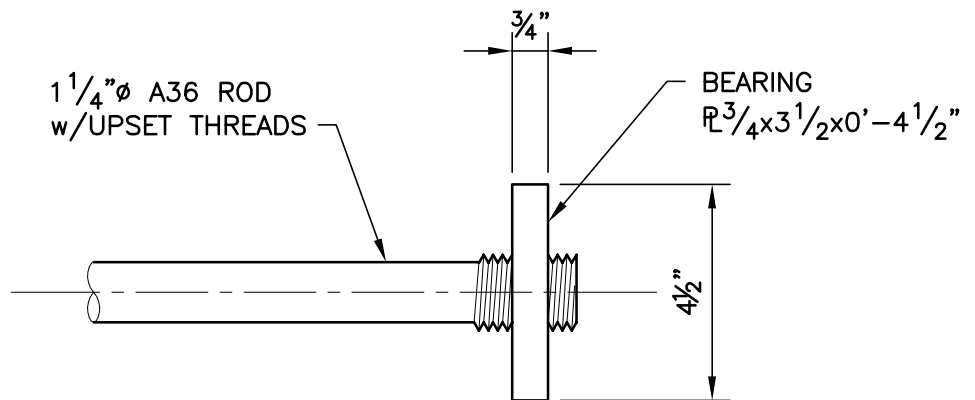
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DATE
05.05.2011

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PLAN VIEW



ELEVATION

3"=1'-0"

ROD BRACE DETAIL

1

UCSD

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LA JOLLA - CALIFORNIA 92093-0085 - (858) 822-5935

APPROVED FOR CONSTRUCTION

	Date	Authorized By	Signature
Approved For Construction By BNCS	05.05.2011	Tara Hutchinson	
S Funding By EAB	05.05.2011	Bob Englekirk	
BIS Funding by BNCS			

Rod Brace Detail

FIGURE

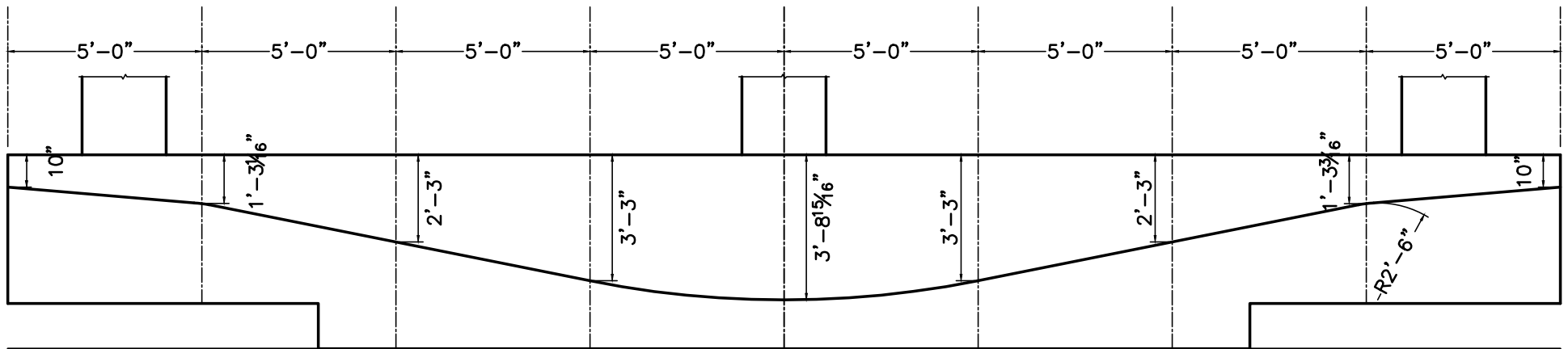
S-21A

TEST SPECIMEN A

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1/4" = 1'-0"



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S FUNDING BY EAB			
BIS FUNDING BY BNCS	05.05.2011	JOSE RESTREPO	

TENDON LAYOUT
BIS-23

FIGURE

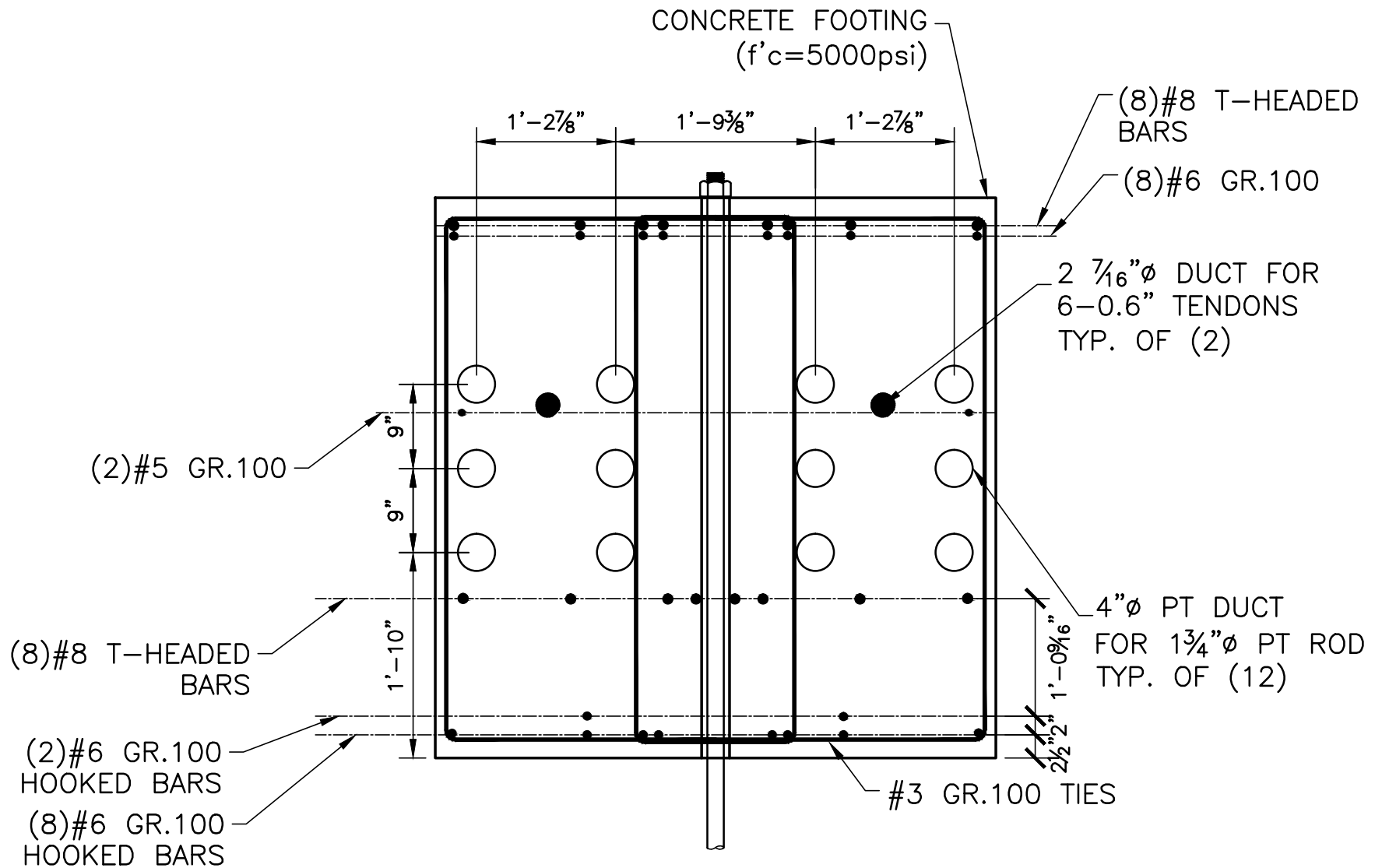
BIS-23

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$\frac{3}{4}" = 1'-0"$



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FOOTING DETAIL
BIS-24

FIGURE

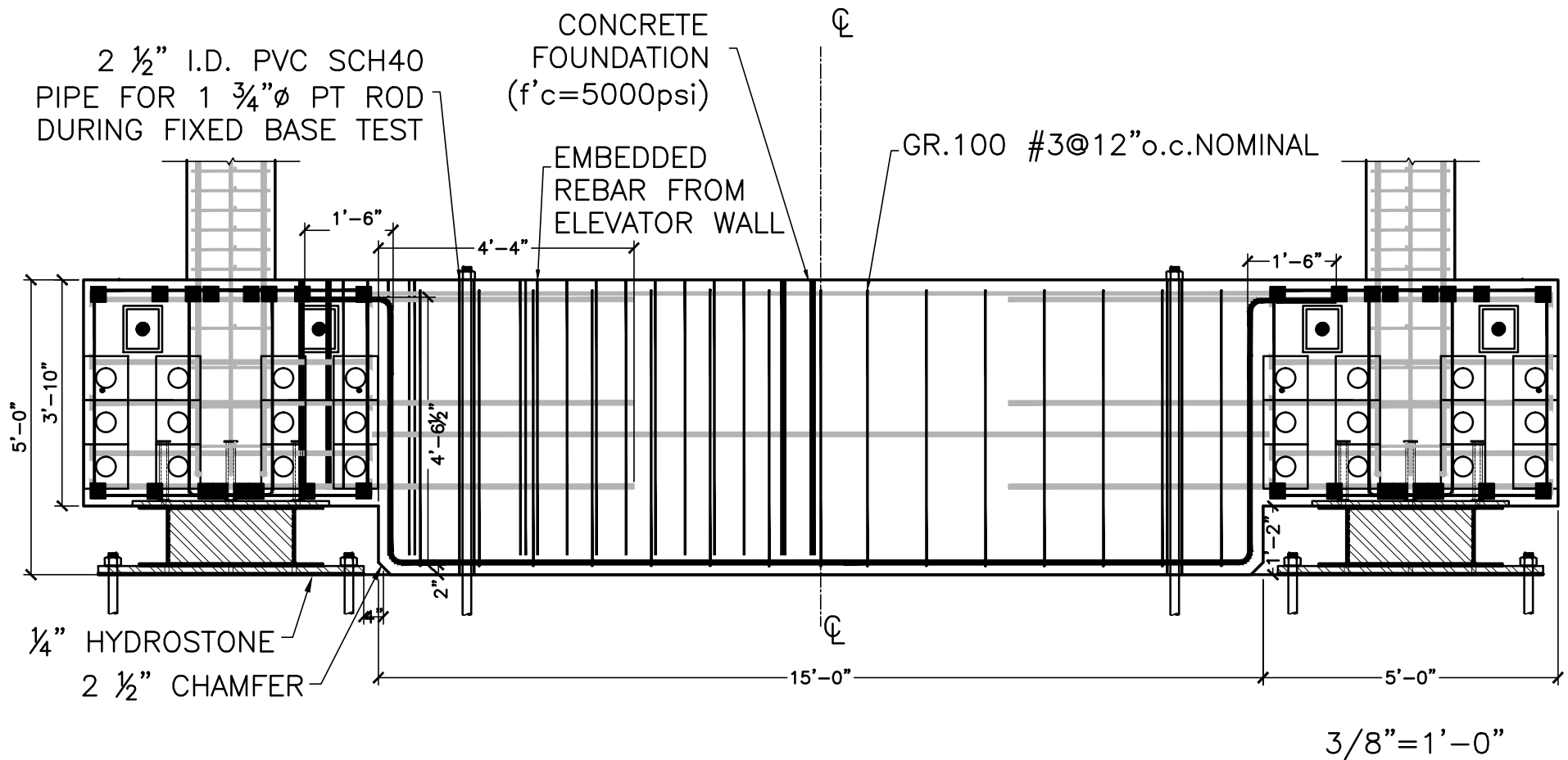
BIS-24

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FOUNDATION DETAIL
BIS-25

FIGURE

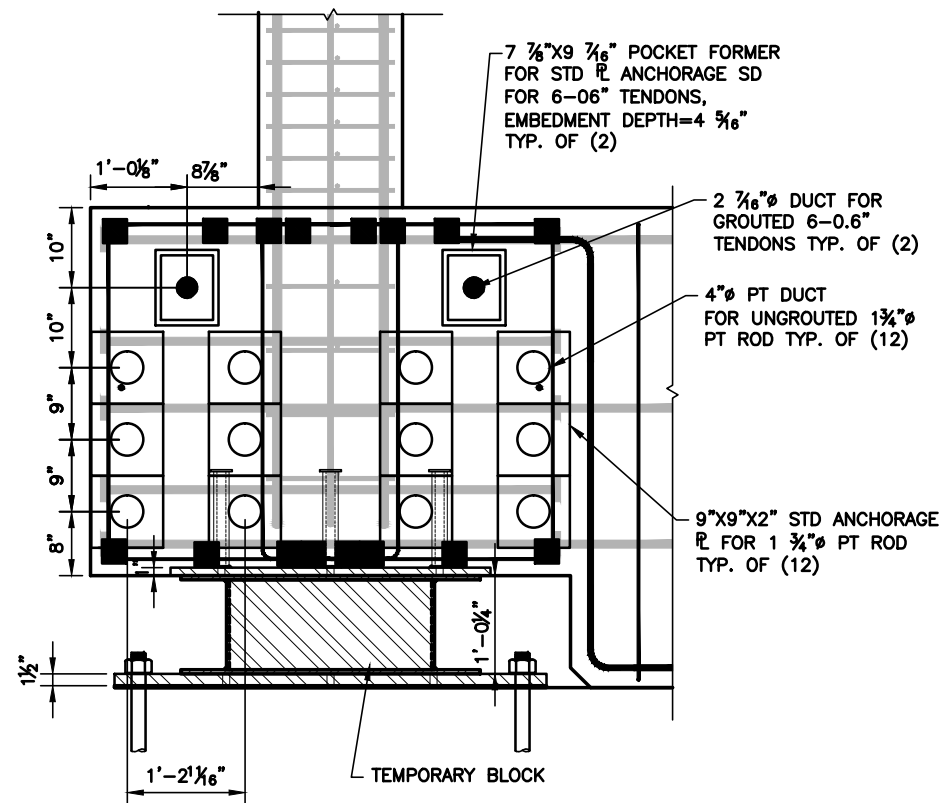
BIS-25

BASE ISO-OPTION 1

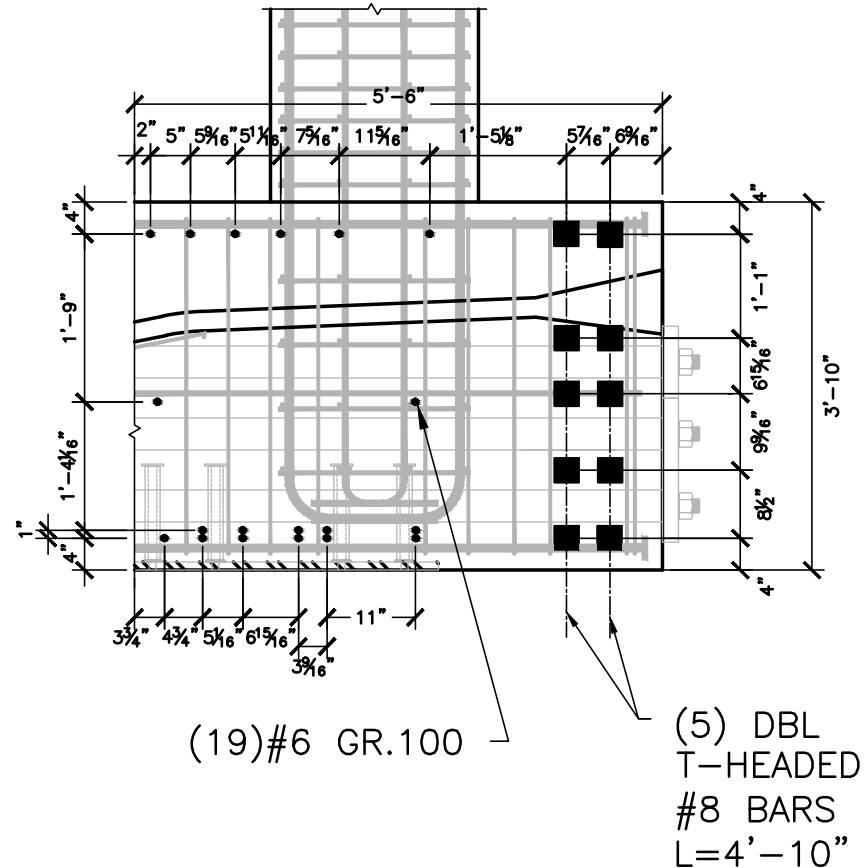
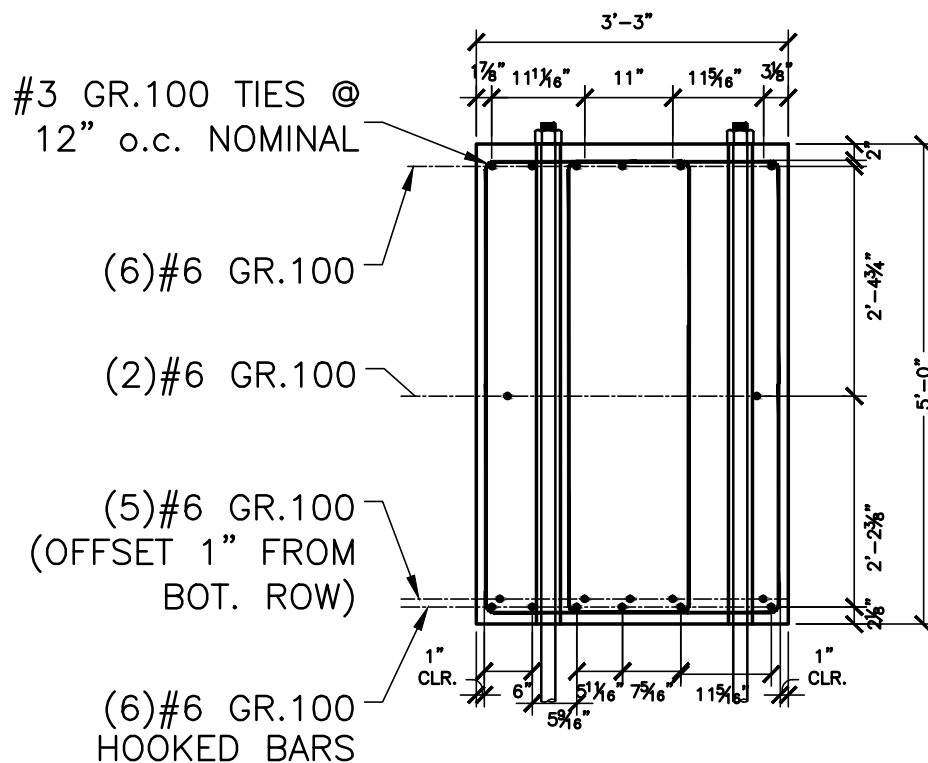
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FOOTING DETAIL
BIS-27

BASE ISO-OPTION 1

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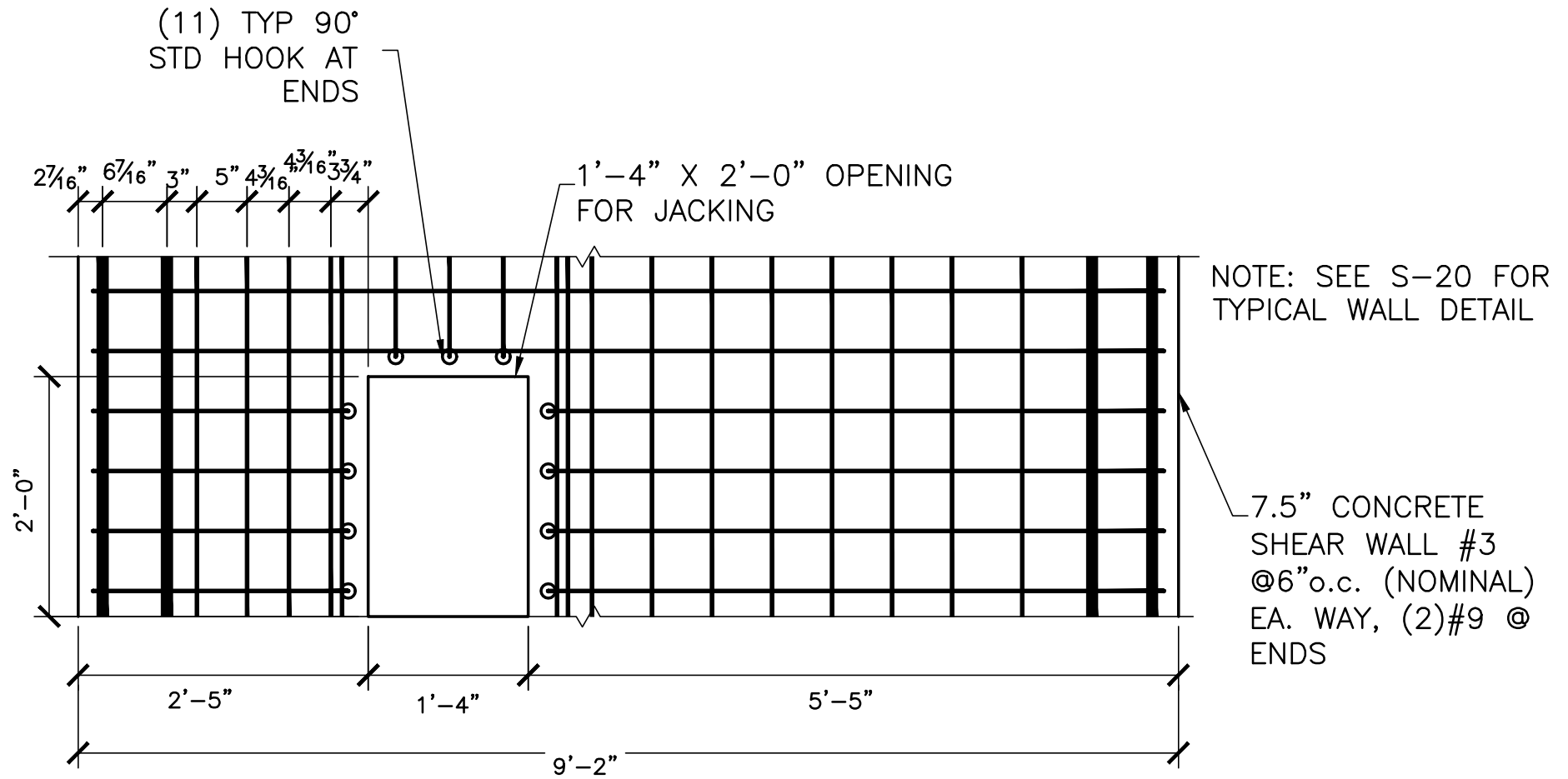
1/2"=1'-0"

FIGURE

BIS-27

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FOUNDATION LEVEL WALL DETAIL
BIS-28

FIGURE

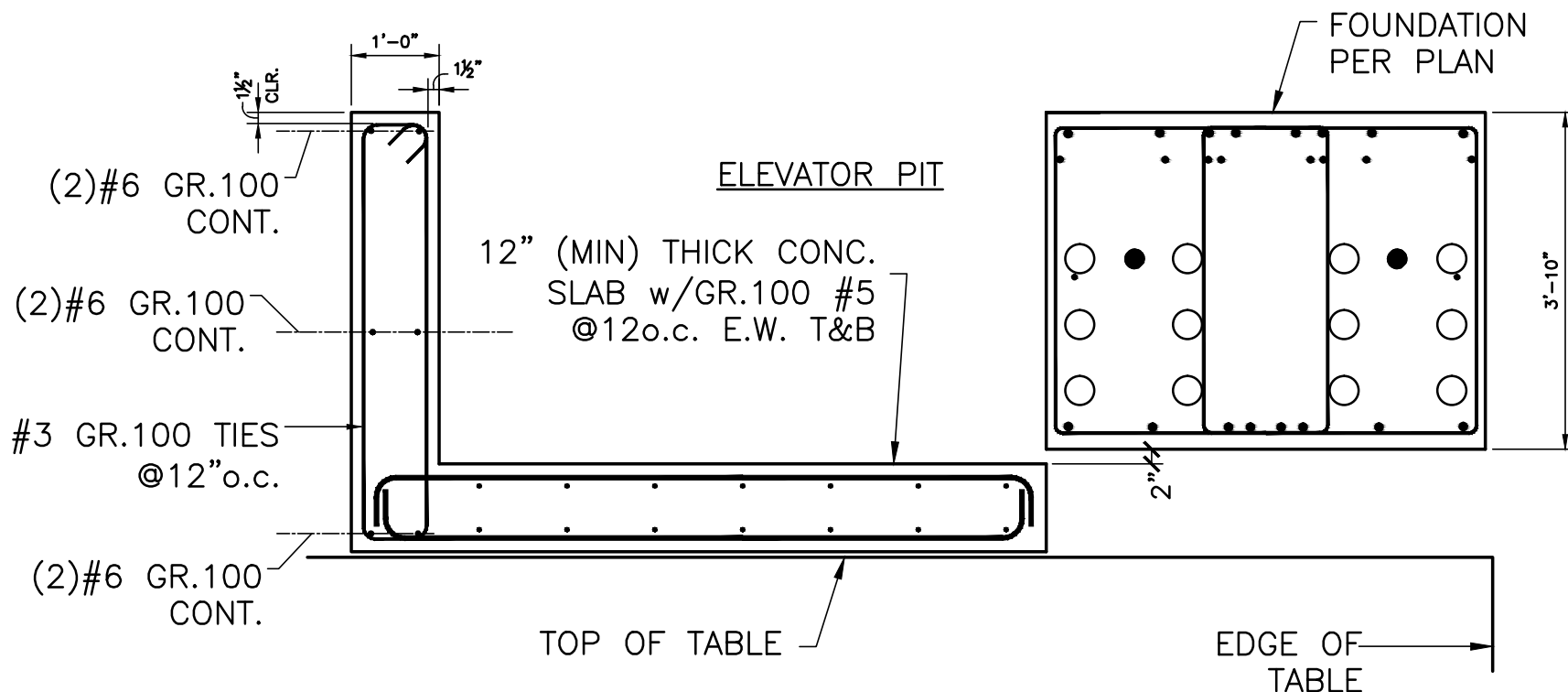
BIS-28

BASE ISO-OPTION 1

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NOTE:

PROVIDE $R \frac{1}{2} \times 8 \times 0'-8$ WITH (4) $\frac{1}{2}"$ NELSON STUDS (8" EMBED.) AT ELEVATOR RAILS. PLATES AND HARDWARE TO BE PROVIDED BY ELEVATOR SUBCONTRACTOR.

$\frac{1}{2}" = 1'-0"$



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ELEVATOR PIT SECTION
BIS-29

FIGURE

BIS-29

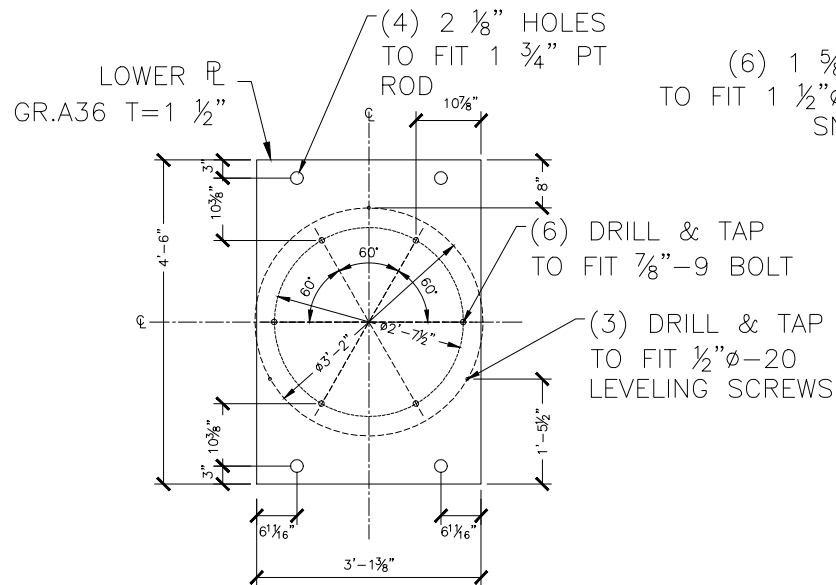
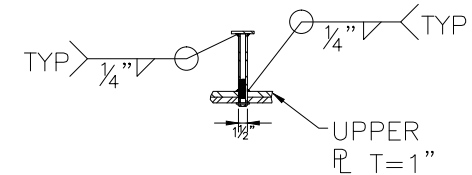
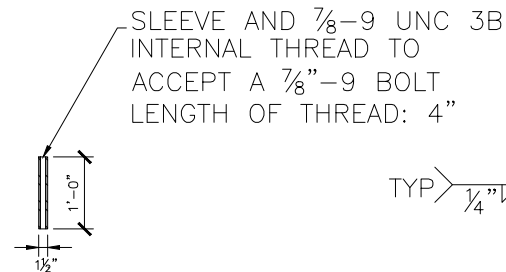
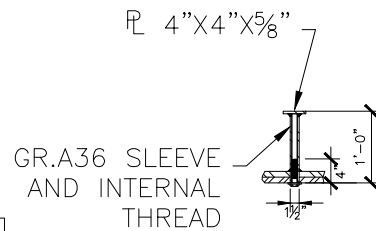
BASE ISO-OPTION 1

JOB NUMBER
604-92

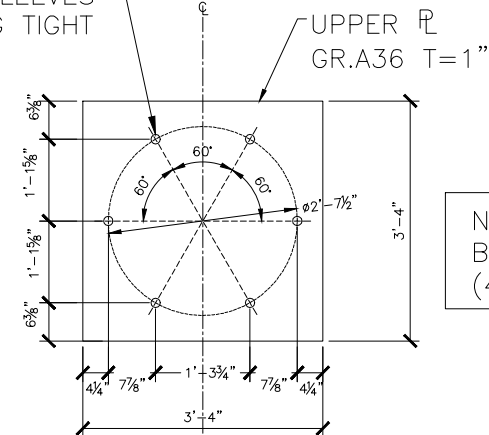
DATE
05.05.2011

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NOTE: DISREGARD ALL
DRAWINGS DATED
4-18-2011



(6) 1 5/8" ϕ HOLES
TO FIT 1 1/2" ϕ SLEEVES
SNUG TIGHT



NOTE: (6) SLEEVES TO
BE WELDED TO EACH
(4) UPPER PLATE

$$3/8" = 1' - 0"$$



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STEEL PLATES AND SLEEVE DETAILS
BIS-30

FIGURE

BIS-30

BASE ISO-OPTION 1

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DATE
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