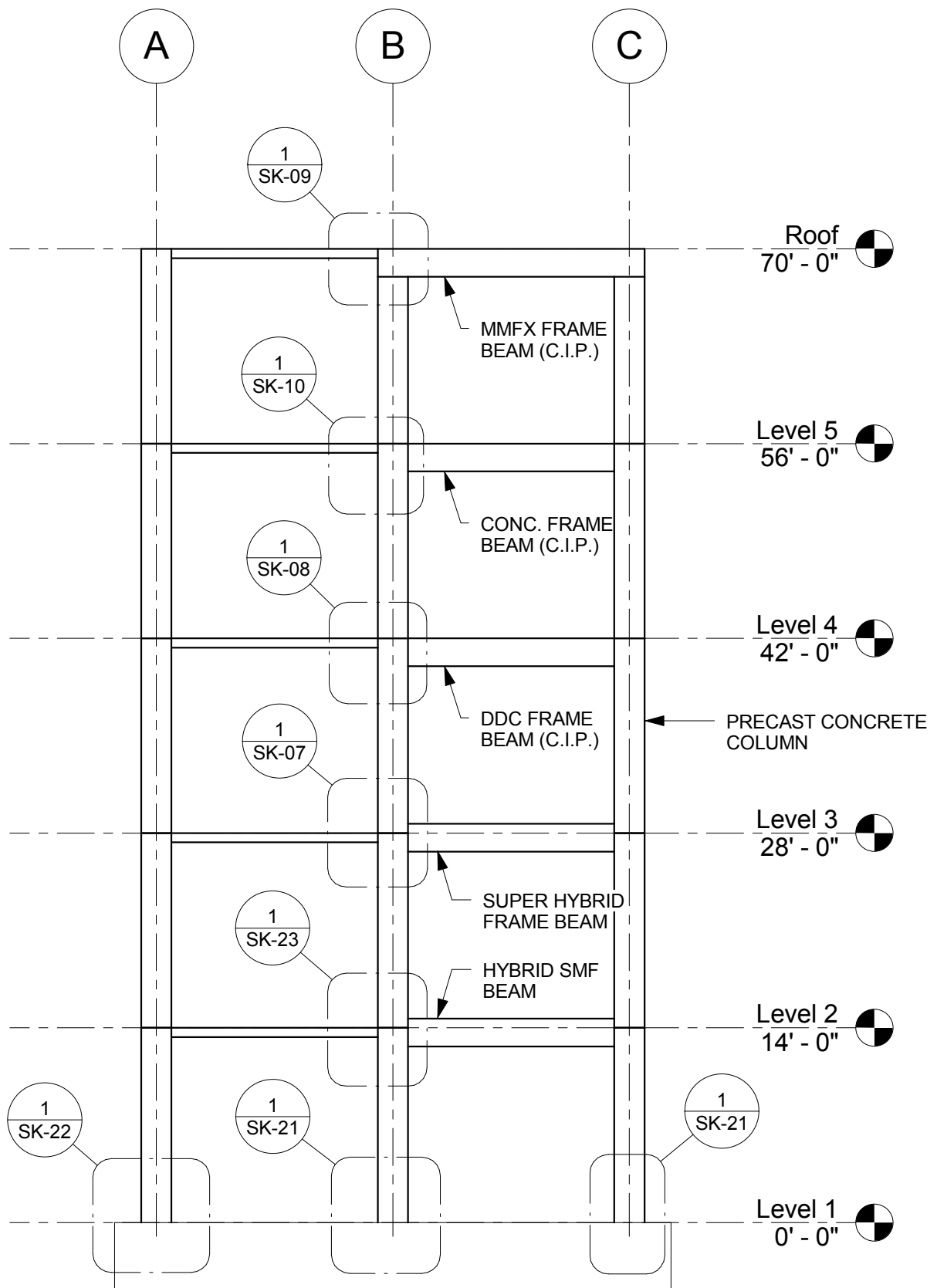




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FILE: W:\PROJECTS\604-92\REVIT MODEL A (R2010).rvt



TYPICAL CONCRETE FRAME ELEVATION TEST SPECIMEN A

Project Number
604-92

Design Development

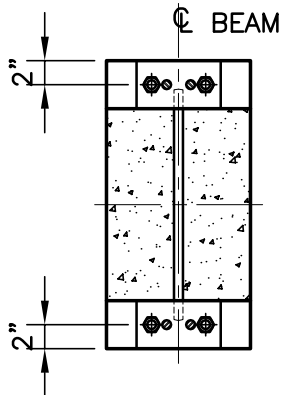
Figure

SK-06

Date
12.08.2010

PRECAST
CONCRETE COLUMN

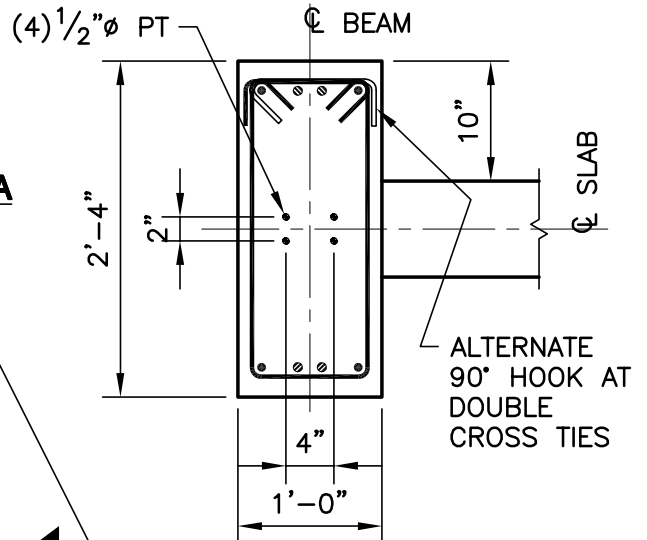
UPTURNED CONC.
HYBRID SMF BEAM



SECTION C-C

SECTION A-A

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



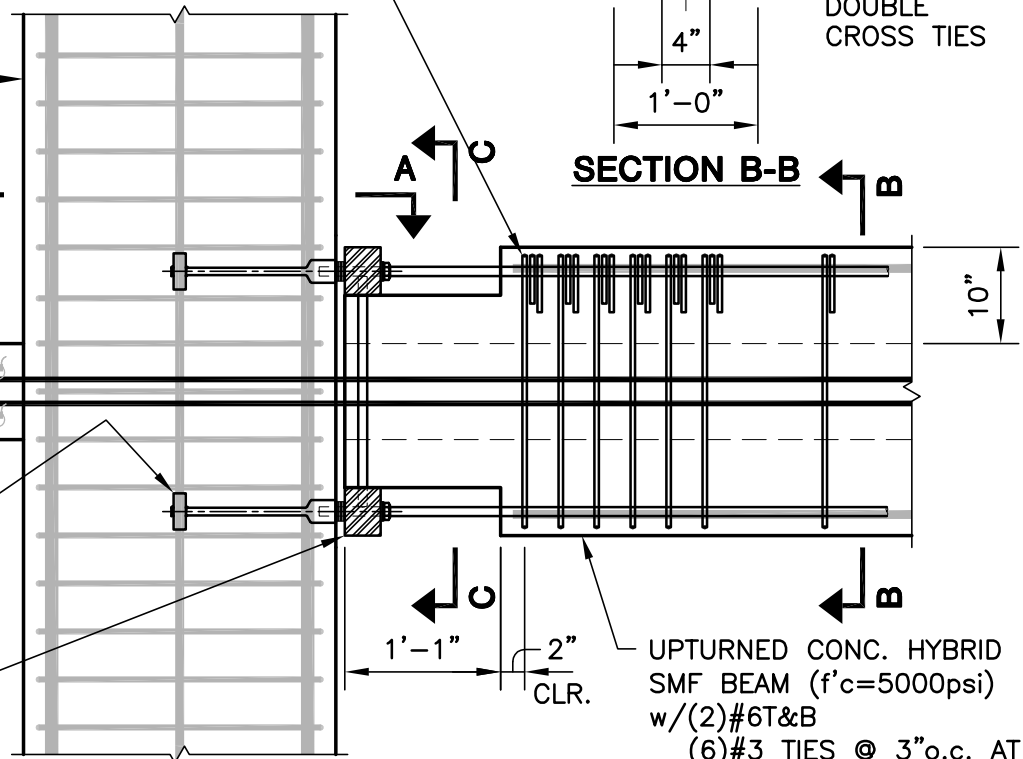
SECTION B-B

PRECAST CONC.
COL. PER PLAN

CONC. SLAB
PER PLAN

TYPICAL
DUCTILE ROD
SEE SK-7B

DUCTILE ROD
ASSEMBLY
SEE SK-7A



UPTURNED CONC. HYBRID
SMF BEAM ($f'_c=5000\text{psi}$)
w/(2)#6T&B
(6)#3 TIES @ 3"o.c. AT
COL. FACE REMAINING
TIES @ 10"o.c.
 $\frac{3}{4}"=1'-0"$

SUPER HYBRID MOMENT FRAME DETAIL

1

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HYBRID SMF MOMENT FRAME
DETAIL

FIGURE

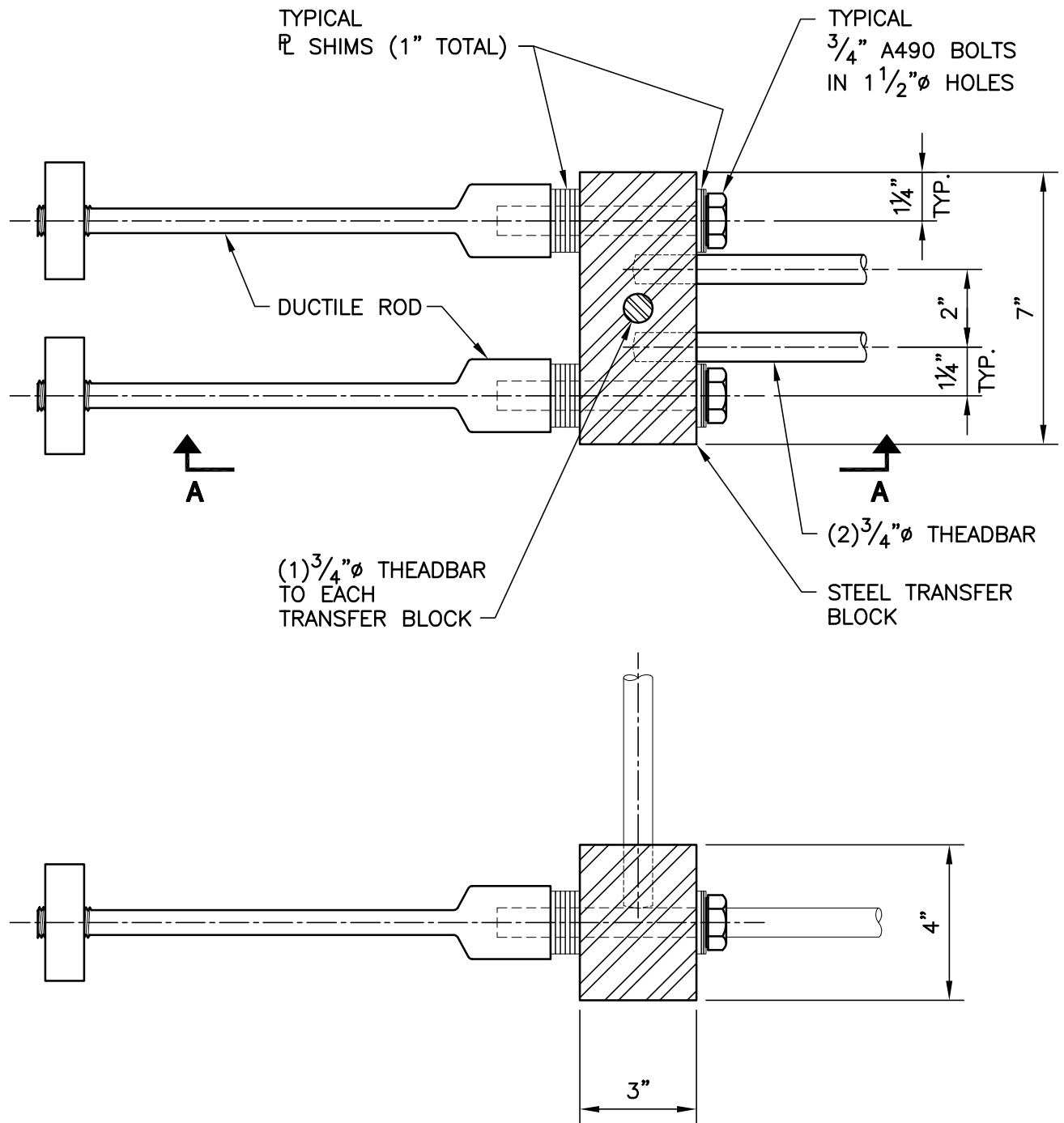
SK-07

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

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SECTION A-A

3"=1'-0"

FRAME BEAM TO COLUMN DUCTILE ROD ASSEMBLY DETAIL

1



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HYBRID SMF DUCTILE ROD
DETAIL

TEST SPECIMEN A

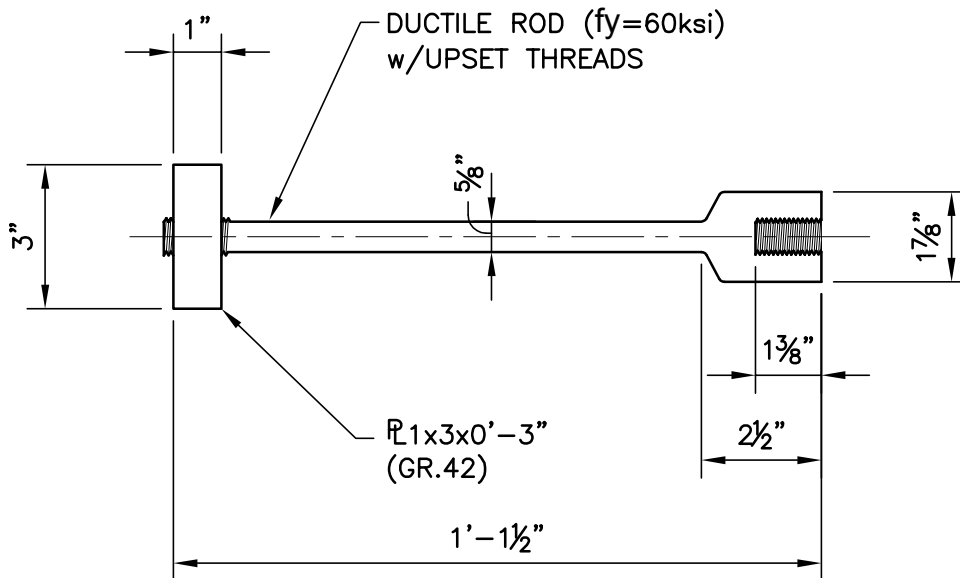
JOB NUMBER
604-92

Design Development

FIGURE

SK-7A

DATE
12.08.2010



NOTE:

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

3"=1'-0"

HYBRID SMF DUCTILE ROD DETAIL

1



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HYBRID SMF DUCTILE ROD
DETAIL

FIGURE

SK-7B

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

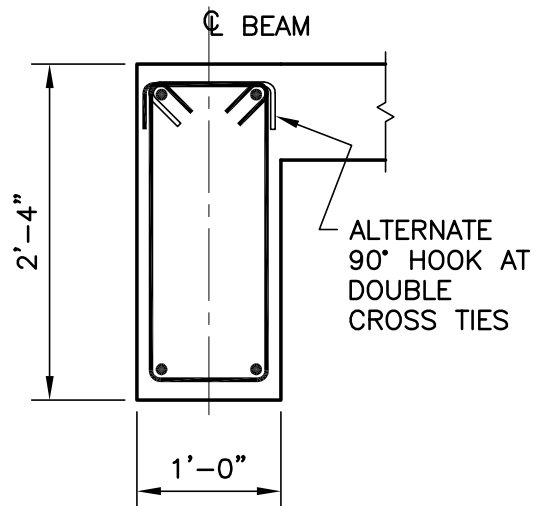
Design Development

PRECAST
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

PRECAST CONC.
COL. PER PLAN

DUCTILE ROD
CONNECTOR
SEE SK-8A

2"
CLR.

DDC FRAME BEAM
($f'_c=5000\text{psi}$)
w/(2)#8T&B
(6)#3 TIES @ 3"o.c. AT
COL. FACE REMAINING
TIES @ 10"o.c.

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

DDC MOMENT FRAME DETAIL

1

DDC MOMENT FRAME DETAIL

FIGURE

SK-08

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

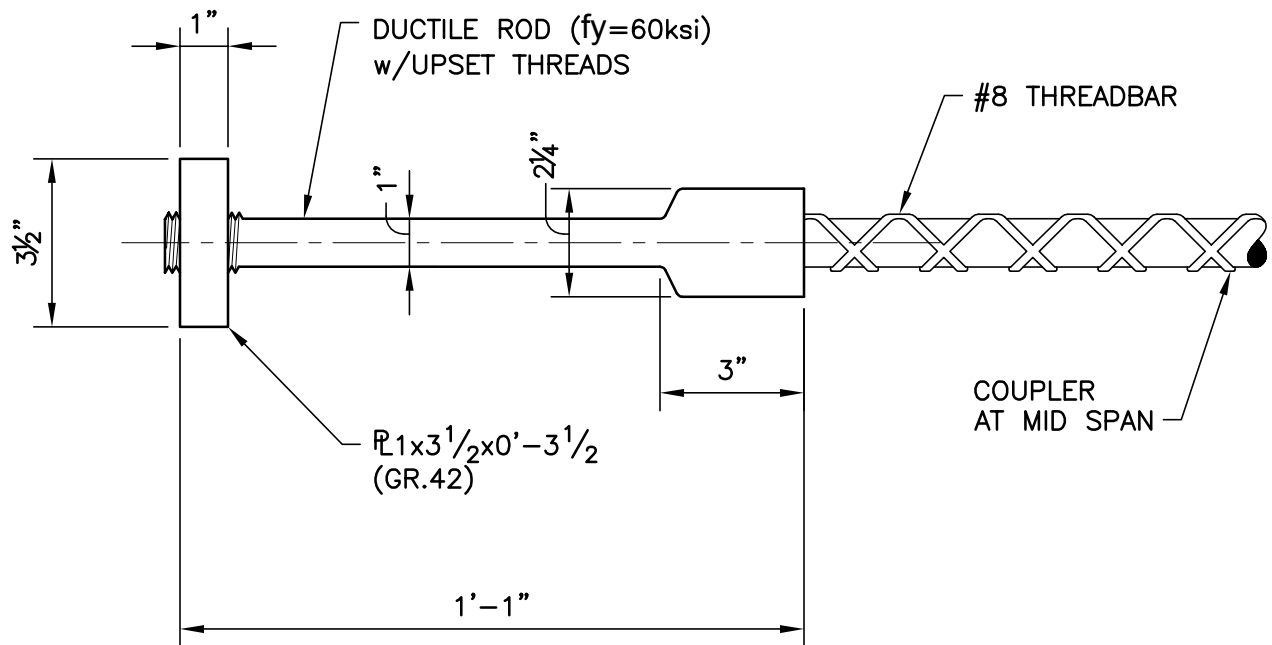
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NOTE:

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

3"=1'-0"

DDC FRAME DUCTILE ROD DETAIL

1



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DDC FRAME DUCTILE ROD
DETAIL

FIGURE

SK-8A

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

Design Development

PRECAST
CONCRETE COLUMN

MMFX CONC. FRAME
BEAM

SECTION A-A

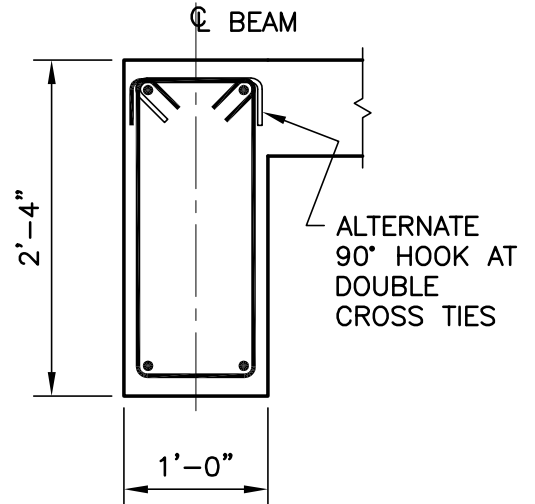
PROVIDE (2) CROSS TIES
TOP AT FIRST (5) TIES
FROM COLUMN FACE

PROVIDE 90° HOOK

CONC. SLAB
PER PLAN

EXTEND TOP
BARS 6'-0"
INTO SLAB

PRECAST CONC.
COL. PER PLAN



SECTION B-B

← B

↑ A

↑ A
← B

MMFX CONC. FRAME BEAM
w/(2)#7T&B ($f_y = 120\text{ksi}$)
(5)#3 TIES @ 4" o.c. AT
COL. FACE REMAINING
TIES @ 5" o.c.

2"
CLR.

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

CONVENTIONAL REINFORCED MMFX MOMENT FRAME DETAIL

1

CONVENTIONAL REINFORCED
MOMENT FRAME DETAIL

FIGURE

SK-09

TEST SPECIMEN A

JOB NUMBER
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DATE
12.08.2010

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PRECAST
CONCRETE COLUMN

CONC. FRAME BEAM

NOTE:
PROVIDE FORM SAVER
ANCHORS FOR SLAB BARS

SECTION A-A

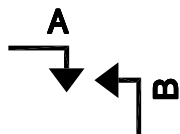
ALTERNATE
90° HOOK

CL BEAM

2'-4"

SECTION B-B

CONC. SLAB
PER PLAN



TYPICAL
GROUT JOINT (8ksi GROUT)

PRECAST CONC.
COL. PER PLAN

TYPICAL
CORRUGATED TUBES
FILLED WITH GROUT

1"
2"
CLR.

CONC. FRAME BEAM
w/(4)#7T&B
(4)#3 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 5"o.c.

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

CONVENTIONAL REINFORCED MOMENT FRAME DETAIL

1

CONVENTIONAL REINFORCED
MOMENT FRAME DETAIL

FIGURE

SK-10

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

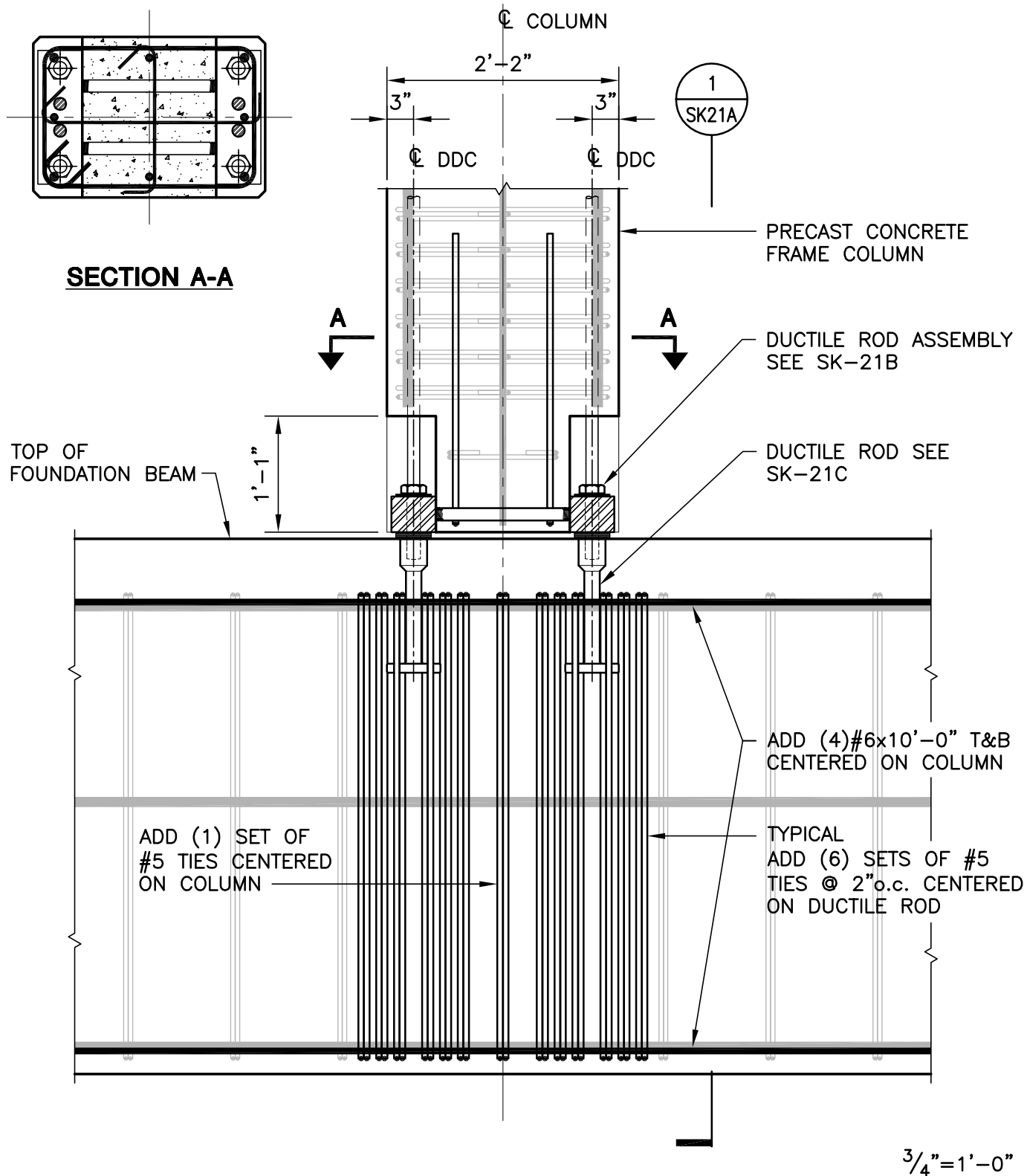
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FRAME COLUMN BASE DETAIL

1



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FRAME COLUMN CONNECTION
DETAIL

TEST SPECIMEN A

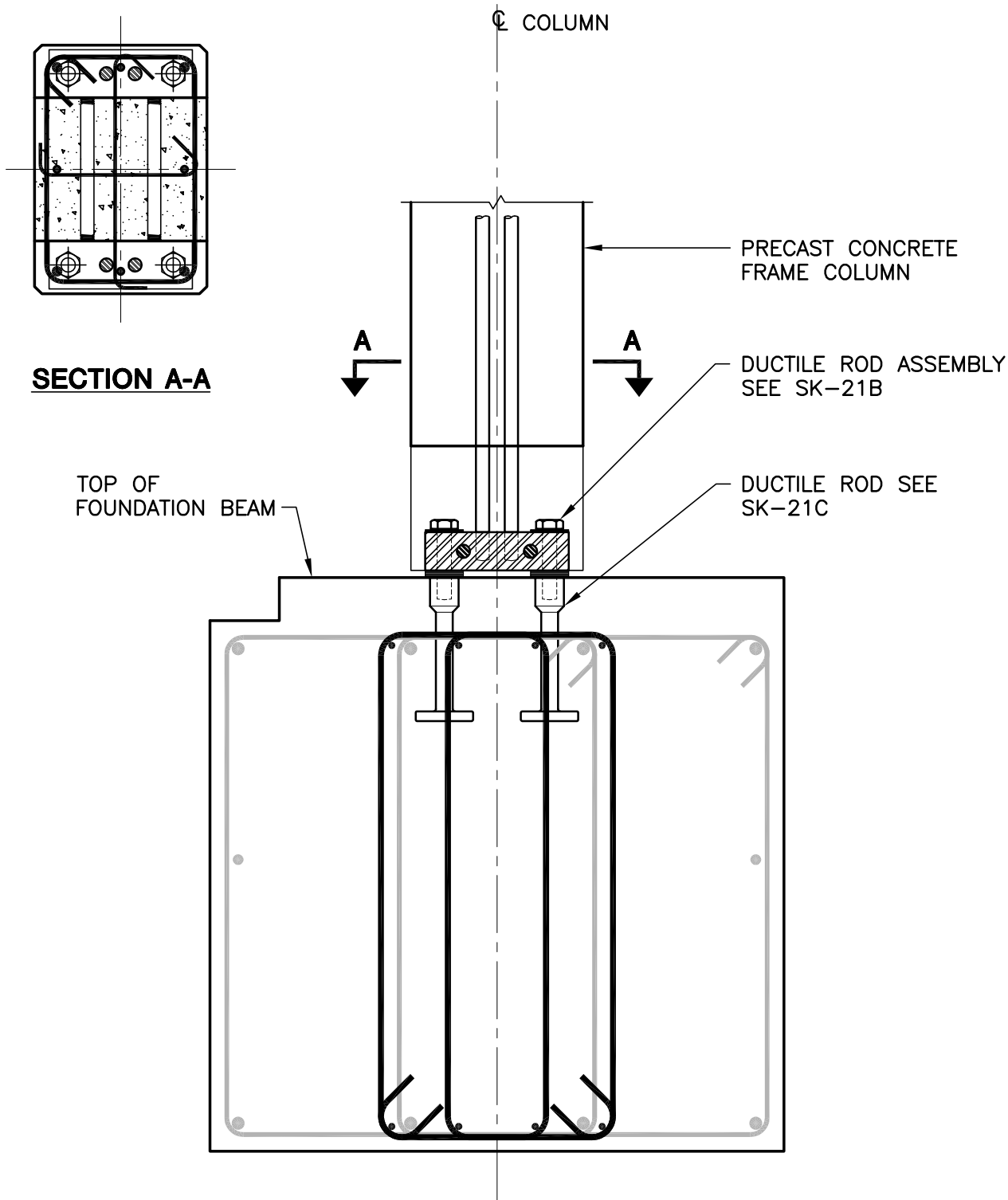
JOB NUMBER
604-92

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FIGURE

SK-21

DATE
12.08.2010



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

FRAME COLUMN BASE DETAIL

1



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FRAME COLUMN CONNECTION
DETAIL

FIGURE

SK-21A

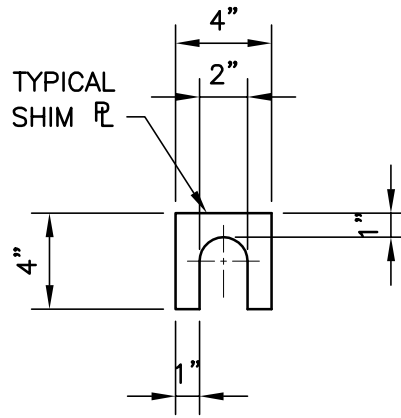
TEST SPECIMEN A

JOB NUMBER
604-92

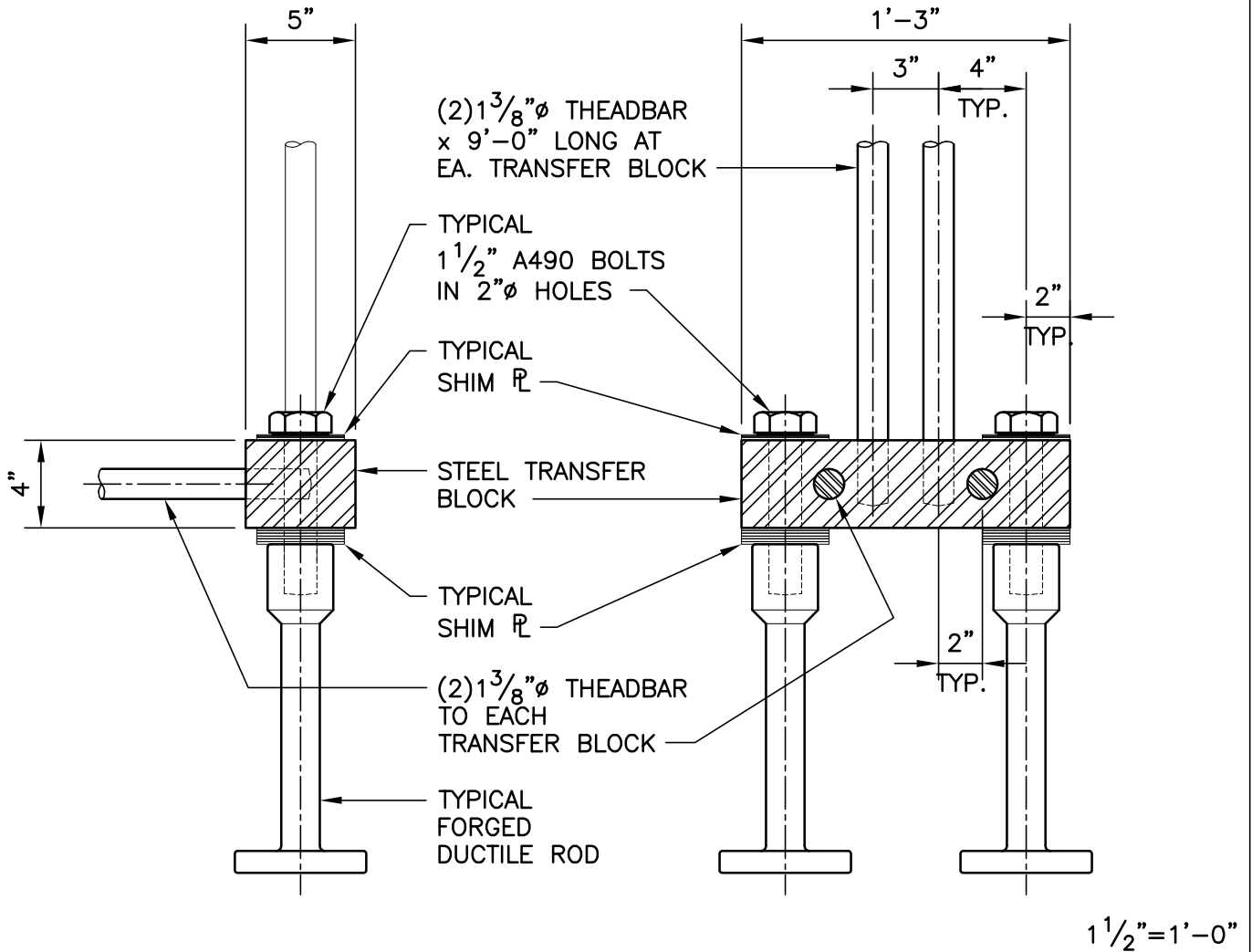
DATE
12.08.2010

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NOTE:
SHIM PLATES SHALL BE AS FOLLOWS:
(7) $\frac{1}{8}$ " THICK PLATES AND (2) $\frac{1}{16}$ "
THICK PLATES. 1" TOTAL SHIMS PER
STEEL TRANSFER BLOCK.
(9 SHIM PLATES TOTAL) PLACE ON
EITHER SIDE FOR ALIGNMENT.



SHIM PLATE DETAIL



FRAME COLUMN TO FOUNDATION BEAM DUCTILE ROD ASSEMBLY DETAIL

1

FRAME COLUMN CONNECTION
DETAIL

FIGURE

SK-21B

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

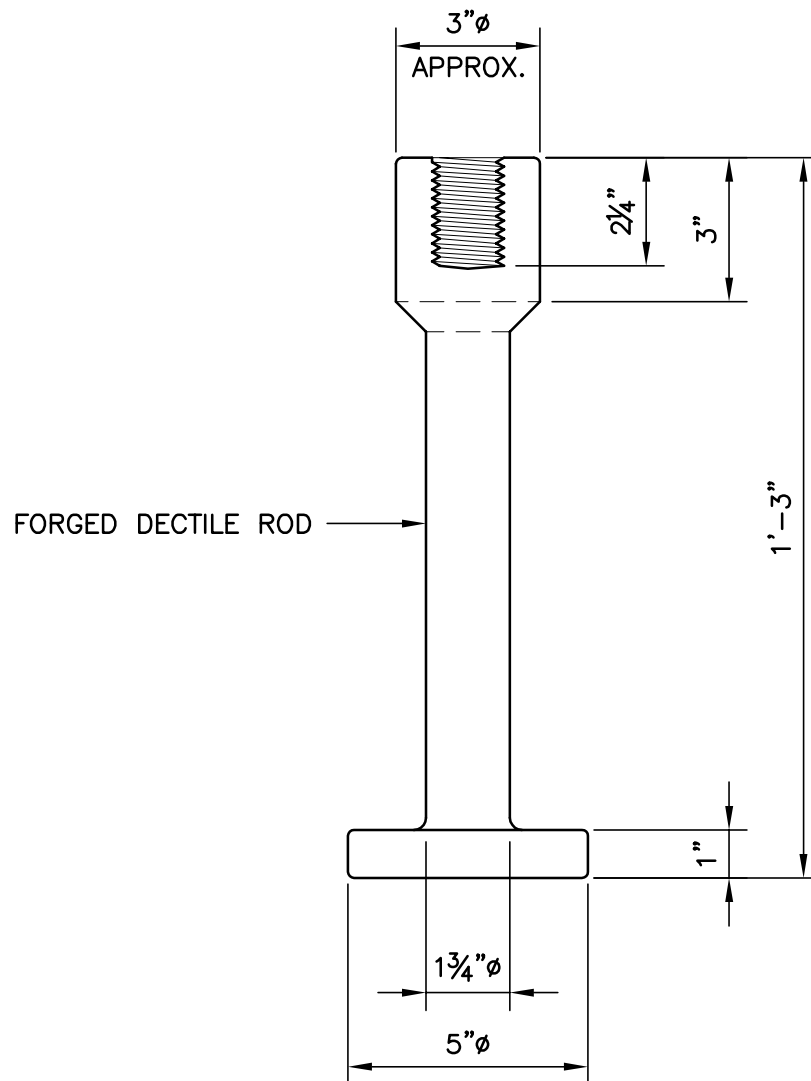
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3" = 1' - 0"

FRAME COLUMN TO FOUNDATION BEAM FORGED DUCTILE ROD DETAIL

1



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FRAME COLUMN CONNECTION
DETAIL

FIGURE

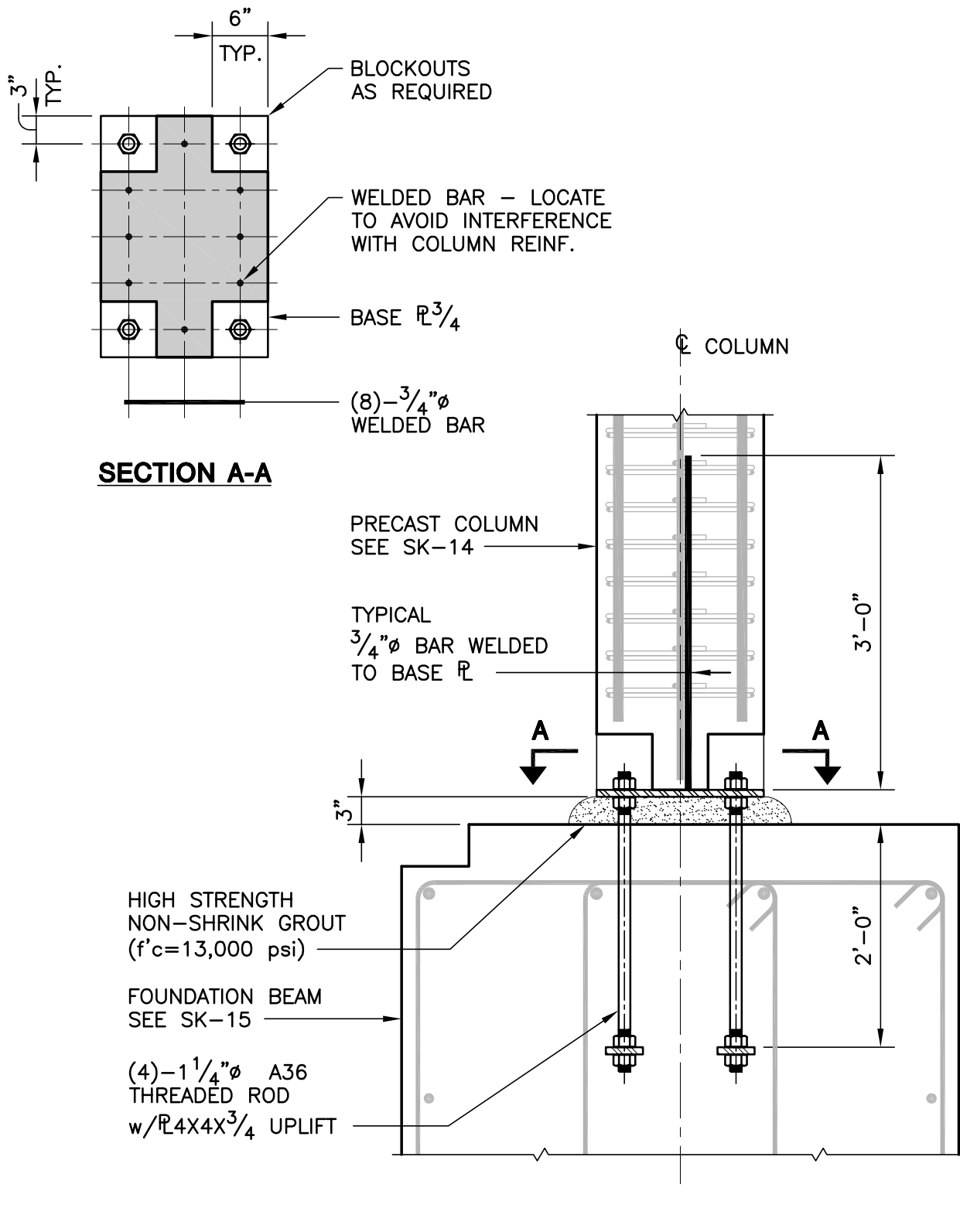
SK-21C

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
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COLUMN BASE DETAIL

1

COLUMN CONNECTION DETAIL

FIGURE

SK-22

TEST SPECIMEN A

JOB NUMBER
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PRECAST
CONCRETE COLUMN

6"

TYPICAL
DEBOND #5 BARS
6" EACH SIDE OF
COLUMN FACE

UPTURNED CONC.
HYBRID SMF BEAM

SECTION A-A

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

PRECAST CONC.
COL. PER PLAN

CONC. SLAB
PER PLAN

TYPICAL
CORRUGATED TUBES
FILLED WITH GROUT

2'-4"

(2) #5 @ 2 1/2" o.c.
IN 1 1/2" ϕ TUBES
GROUTED T&B

CL BEAM

(4) 1/2" ϕ PT

2"

10"
CL SLAB
ALTERNATE
90° HOOK AT
DOUBLE
CROSS TIES

SECTION B-B

TYPICAL
GROUT JOINT (8ksi GROUT)

8"

1"
2"
CLR.

UPTURNED CONC. HYBRID
SMF BEAM ($f'_c=5000\text{psi}$)
w/(2) #6T&B
(6) #3 TIES @ 3" o.c. AT
COL. FACE REMAINING
TIES @ 10" o.c.

3/4" = 1'-0"

HYBRID SMF MOMENT FRAME DETAIL

1

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HYBRID SMF MOMENT FRAME
DETAIL

FIGURE

SK-23

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
12.08.2010

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