



CRANE GENERAL NOTES

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AH1200 - BEAM TO BRACKET STD. CONNECTION (BEAM BY NBG)

AH1200 - BEAM TO BRACKET HEAVY CONNECTION (BEAM BY NBG)

AH1200 - BEAM TO BRACKET (BEAM NOT BY NBG)

AH1210 - BEAM BRACING WITH NO BRACE STRUT (BEAM BY NBG)

AH1211 - BEAM BRACING WITH NO BRACE STRUT (BEAM NOT BY NBG)

AH1220 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

AH1221 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

AH1230 - BEAM BRACING WITH PIPE STRUT (BEAM BY NBG)

AH1231 - BEAM BRACING WITH PIPE STRUT (BEAM NOT BY NBG)

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AH1300 - BEAM TO AUXILIARY COLUMN HEAVY CONNECTION (BEAM BY NBG)

AH1300 - BEAM TO AUXILIARY COLUMN (BEAM NOT BY NBG)

AH1310 - COLUMN TO AUXILIARY COLUMN CONNECTION

AH1320 - BEAM BRACING NO BRACE STRUT (BEAM BY NBG)

AH1321 - BEAM BRACING NO BRACE STRUT (BEAM NOT BY NBG)

AH1330 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

AH1331 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

DOUBLE AUXILIARY CRANE COLUMN DETAILS

AH1400 - BEAM TO AUXILIARY COLUMN STD. CONNECTION (BEAM BY NBG)

AH1400 - BEAM TO AUXILIARY COLUMN HEAVY CONNECTION (BEAM BY NBG)

AH1400 - BEAM TO AUXILIARY COLUMN (BEAM NOT BY NBG)

AH1410 - COLUMN TO AUXILIARY COLUMN CONNECTION

AH1420 - BEAM BRACING NO BRACE STRUT (BEAM BY NBG)

AH1421 - BEAM BRACING NO BRACE STRUT (BEAM NOT BY NBG)

AH1430 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

AH1431 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

SINGLE STEPPED COLUMN DETAILS

AH1500 - BEAM TO STEPPED COLUMN STD. CONNECTION (BEAM BY NBG)

AH1500 - BEAM TO STEPPED COLUMN HEAVY CONNECTION (BEAM BY NBG)

AH1500 - BEAM TO STEPPED COLUMN (BEAM NOT BY NBG)

DOUBLE STEPPED COLUMN DETAILS

AH1510 - BEAM TO STEPPED COLUMN STD. CONNECTION (BEAM BY NBG)

AH1510 - BEAM TO STEPPED COLUMN HEAVY CONNECTION (BEAM BY NBG)

AH1510 - BEAM TO STEPPED COLUMN (BEAM NOT BY NBG)

CRANE STOP AND RAIL ATTACHMENT DETAILS

AH1600 - CRANE STOP DETAIL (WITH CBC01)

AH1600 - CRANE STOP DETAIL (WITH CBC04)

AH1620 - RAIL TO RUNWAY HOOK BOLT

AH1630 - RAIL TO RUNWAY BEAM FLOATING CLAMP

UNDERHUNG AND MONORAIL CRANE DETAILS

AH1700 - UNDERHUNG / MONORAIL CRANE ATTACHMENT POINT (BY NBG)

AH1710 - TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT (BY NBG)

AH1720 - UNDERHUNG / MONORAIL CRANE ATTACHMENT POINT (BY NBG)

AH1730 - TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT (BY NBG)



CRANE DETAILS PRIMARY FRAMING

Detail Size (W x H): 1 x 1

AH1000 - CRANE BRACE NOTE

Download the DWG file by clicking here.

ERECTOR NOTE:

THE CBA- ANGLE BRACES MUST BE INSTALLED ON THE FRAME COLUMNS AND ATTACHED TO THE CRANE SYSTEM AT THE TIME OF BUILDING ERECTION. THE BUILDING RELIES ON THE CRANE SYSTEM FOR STABILITY, WITHOUT THE CRANE SYSTEM AND THE CBA- ANGLE BRACES INSTALLED, THE BUILDING IS UNSTABLE. THIS APPLIES ONLY TO CRANE SYSTEMS SUPPLIED WITH THIS BUILDING AND DOES NOT APPLY TO FUTURE CRANE SYSTEMS.

Detailer Notes:

1) THIS DETAIL NEEDS TO GO ON ALL CRANE PLANS EXCEPT FOR FUTURE CRANES.

: 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Issued



PRIMARY FRAMING

AH1010 - CRANE SYSTEM GENERAL NOTES

Download the DWG file by clicking here.

- 1) COORDINATION OF OTHER TRADES: SUPPORTS AND BRACING FOR THE CRANE SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE GENERAL NOTES. NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE CRANE SYSTEMS HAVE BEEN SHOWN. THE BUYER SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING SYSTEM.
- 2) FOR TOP RUNNING CRANE SYSTEMS, CRANE RAIL SPLICES MUST BE ARRANGED SO THAT JOINTS ON OPPOSITE RUNWAY BEAMS FOR THE CRANE AISLE ARE STAGGERED WITH RESPECT TO THE WHEEL BASE OF THE CRANE. REFER TO CMAA OR AISC GUIDELINES FOR FURTHER INSTALLATION REQUIREMENTS.
- 3) PERIODIC MAINTENANCE IS REQUIRED. DUE TO THE NATURE OF THE CRANE SYSTEM, MAINTENANCE INCLUDING BUT NOT LIMITED TO, TIGHTENING OF BOLTS AND NUTS MUST BE DONE AS REQUIRED BY BUILDER OR THE BUILDING OWNER TO ENSURE THAT THE CRANE SYSTEM REMAINS IN SAFE, OPERATING CONDITION. REFER TO CMAA OR AISC GUIDELINES FOR PERIODIC MAINTENANCE REQUIREMENTS.
- 4) SEE RAIL TO RUNWAY BEAM CONNECTION DETAILS FOR HOOK BOLT OR SLIDING CLAMP REQUIREMENTS.

CRANE SYSTEM GENERAL NOTES

AH1010

Detailer Notes:

1) THIS NOTE IS REQUIRED ON EVERY CRANE JOB.

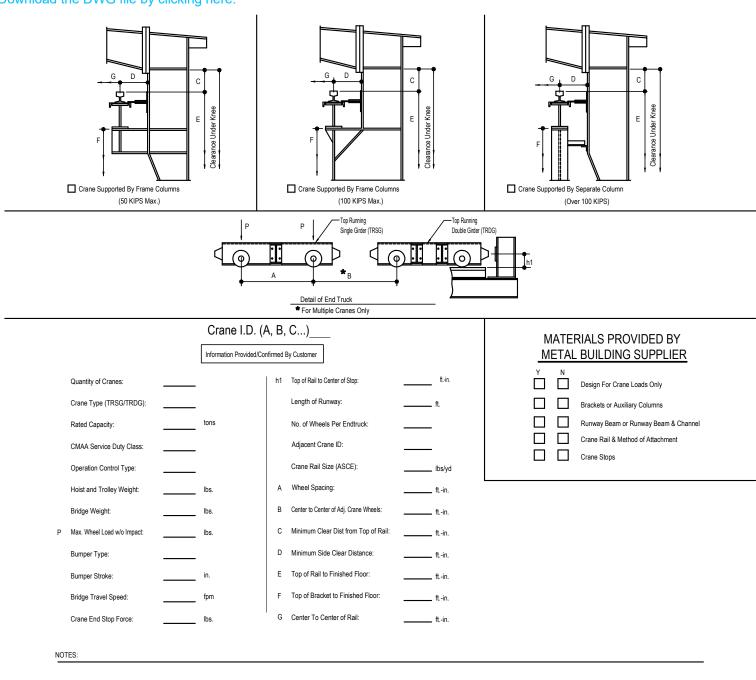
: 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 1 x 1 Issued



PRIMARY FRAMING

AH1020 - TOP RUNNING CRANE DESIGN INFORMATION

Download the DWG file by clicking here.



TOP RUNNING CRANE DESIGN INFORMATION DETAIL

AH1020

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

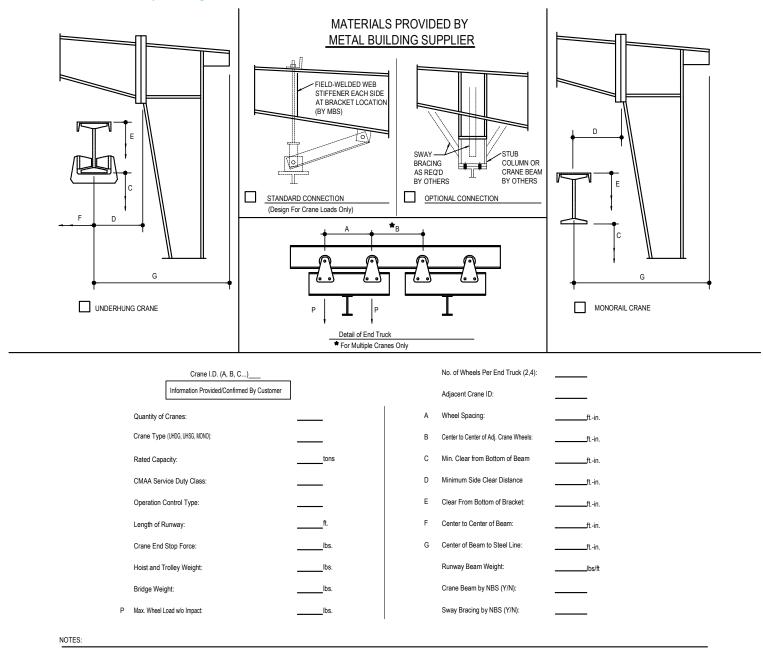
Issued: 07.22.20 (MR2020.008) CERTIFIED ERECTION DETAILS Detail Size (W x H): 2 x 2



PRIMARY FRAMING

AH1030 - UNDERHUNG OR MONORAIL CRANE DESIGN INFORMATION

Download the DWG file by clicking here.



UNDERHUNG OR MONORAIL CRANE DESIGN INFORMATION

AH1030

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

Issued: 07.22.20 (MR2020.008) CERTIFIED ERECTION DETAILS Detail Size (W x H): 2 x 2



PRIMARY FRAMING

TONS

(DEG)

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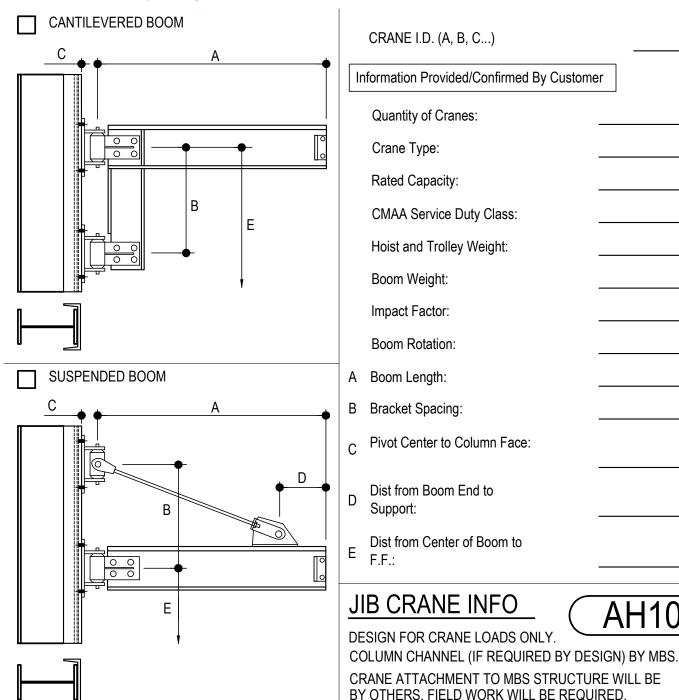
(FT-IN)

(FT-IN)

(FT-IN)

AH1040 - JIB CRANE DESIGN INFORMATION

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

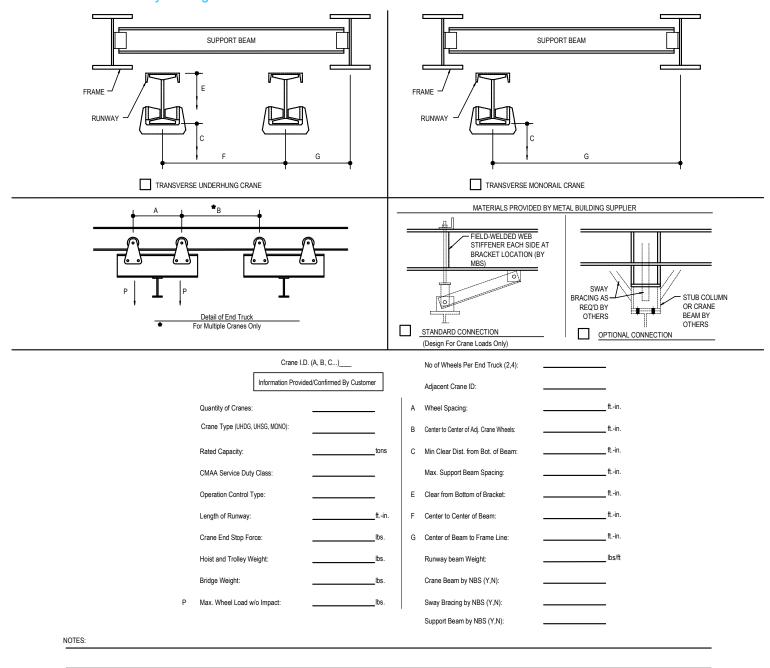
Issued : 07.22.20 (MR2020.008) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1050 - TRANSVERSE UNDERHUNG CRANE DESIGN INFORMATION

Download the DWG file by clicking here.



TRANSVERSE UNDERHUNG/MONORAIL CRANE DESIGN INFORMATION

(AH1050

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

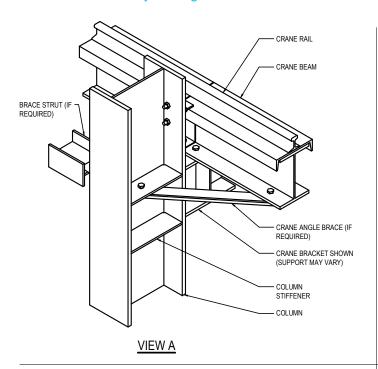
Issued: 07.22.20 (MR2020.008) CERTIFIED ERECTION DETAILS Detail Size (W x H): 2 x 2

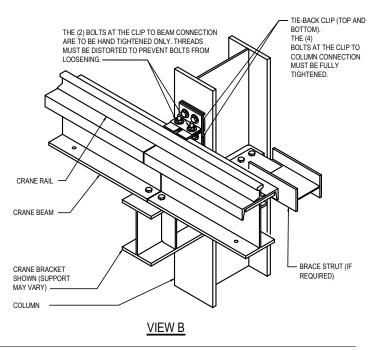


PRIMARY FRAMING

AH1060 - CRANE COLUMN TIE-BACK

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THE (2) BOLTS AT THE CLIP TO BEAM CONNECTION ARE TO BE HAND TIGHTENED ONLY. THREADS MUST BE DISTORTED TO PREVENT BOLTS FROM LOOSENING. CRANE BEAM TIE-BACK CLIP (TOP AND BOTTOM). THE (4) BOLTS AT THE CLIP TO COLUMN CONNECTION MUST BE FULLY TIGHTENED.

VIEW C

GENERAL NOTES

THE INTENTION OF THIS DETAIL IS TO MORE COMPLETELY SHOW THE FINISHED ASSEMBLY OF CRANE BEAM TO COLUMN CONNECTIONS. REFER TO THE CRANE PLAN AND/OR STRUCTURAL ELEVATIONS FOR LOCATIONS OF ANGLE BRACING AND BRACE STRUTS, AS WELL AS PART NUMBERS.

VIEW A SHOWS THE ANGLE BRACE CONNECTION FROM THE COLUMN STIFFENER TO THE CRANE BEAM

VIEW B SHOWS THE TIE-BACK CLIP CONNECTION FROM THE CRANE BEAM TO THE COLUMN.

VIEW C IS AN ENGLARGED VIEW OF THE TIE-BACK CLIP CONNECTION.

SEE THE RAIL TO RUNWAY BEAM CONNECTION DETAILS (EITHER HOOK BOLT OR FLOATING CLAMP DETAIL) FOR ADDITIONAL CONNECTION REQUIREMENTS.

SEE THE ADDITIONAL CRANE DETAILS, PLANS, OR FRAME CROSS SECTIONS FOR MATERIAL SIZES, CRITICAL DIMENSIONS, AND LOAD INFORMATION.

IMPORTANT NOTE: FIELD SLOTTING OF LATERAL TIE BACK PLATE OR ANGLES IS NOT PERMITTED. FIELD MODIFICATION OF THIS CONNECTION WILL ADVERSELY AFFECT THE STRUCTURAL PERFORMANCE AND INTEGRITY OF THE CRANE RUNWAY SYSTEM.

CRANE BEAM SYSTEM IS SHOWN WITH RUNWAY BEAM & CHANNEL, CONCEPTUAL ONLY. ACTUAL CRANE BEAM SYSTEM WILL BE RUNWAY BEAM OR RUNWAY BEAM & CHANNEL

TOP-RUNNING BRIDGE CRANE ASSEMBLY DETAILS

(RUNWAY BEAM CONNECTION, SUPPORT VARIES, BRACKET SHOWN)

AH1060

Detailer Notes:

1) THIS DETAIL IS TO BE USED IN ADDITION TO THE STANDARD DETAILS THAT YOU WOULD NORMALLY USE. IT IS INTENDED TO HELP THE ERECTOR INSTALL THIS CONNECTION.

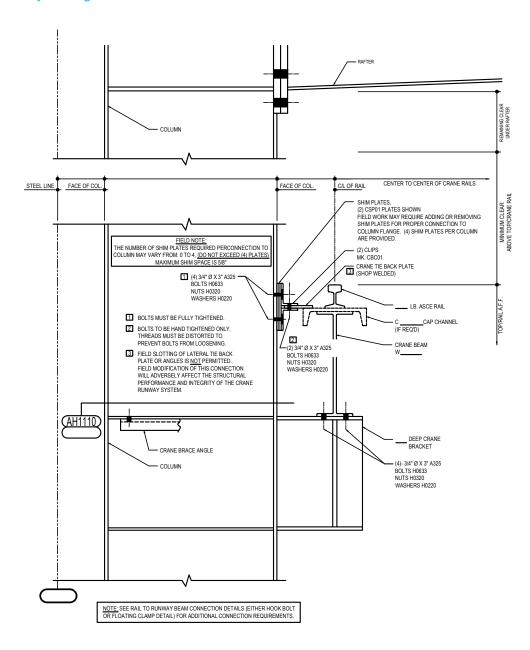
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 2 x 2



PRIMARY FRAMING

AH1100 - BEAM TO BRACKET STD. CONNECTION (BEAM BY NBG)

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TOP RUNNING BRIDGE CRANE DETAIL
RUNWAY BEAM TO BRACKET AND CRANE TIE BACK CONNECTION

CRANE ID:

(AH1100)

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

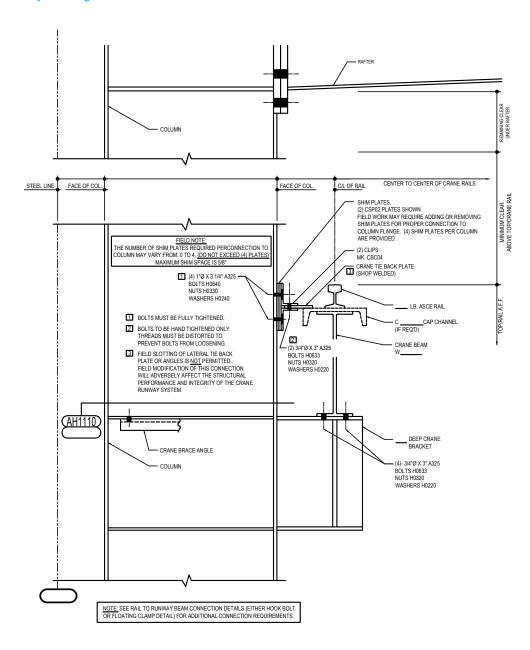
Issued: 04.27.20 (2019.051) CERTIFIED ERECTION DETAILS Detail Size (W x H): 2 x 3



PRIMARY FRAMING

AH1100 - BEAM TO BRACKET HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL
RUNWAY BEAM TO BRACKET AND CRANE TIE BACK CONNECTION

CRANE ID:

(AH1100)

Detail Size (W x H): 2 x 3

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

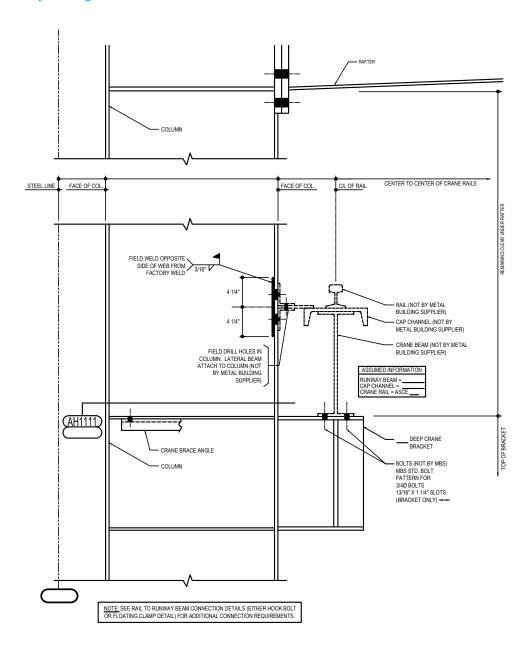
Issued : 04.27.20 (2019.051) CERTIFIED ERECTION DETAILS



PRIMARY FRAMING

AH1100 - BEAM TO BRACKET (BEAM NOT BY NBG)

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TOP RUNNING BRIDGE CRANE DETAIL

CRANE ID:

(AH1100)

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued : 04.27.20 (2019.051) Issued By : WME **CERTIFIED ERECTION DETAILS**

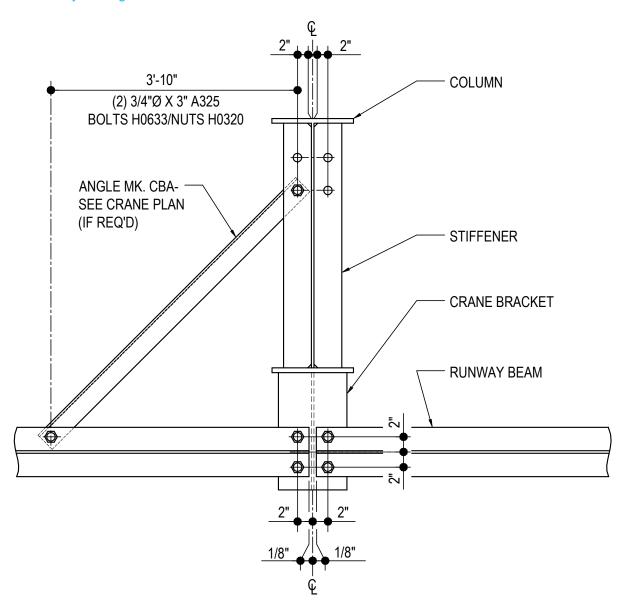
Detail Size (W x H): 2 x 3



PRIMARY FRAMING

AH1110 - BEAM BRACING WITH NO BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

AH1110

Detailer Notes:

1)

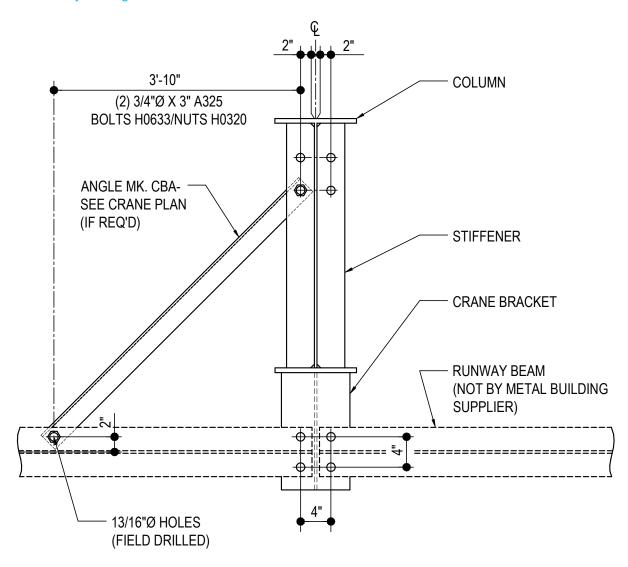
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1111 - BEAM BRACING WITH NO BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

(AH1111)

Detailer Notes:

1)

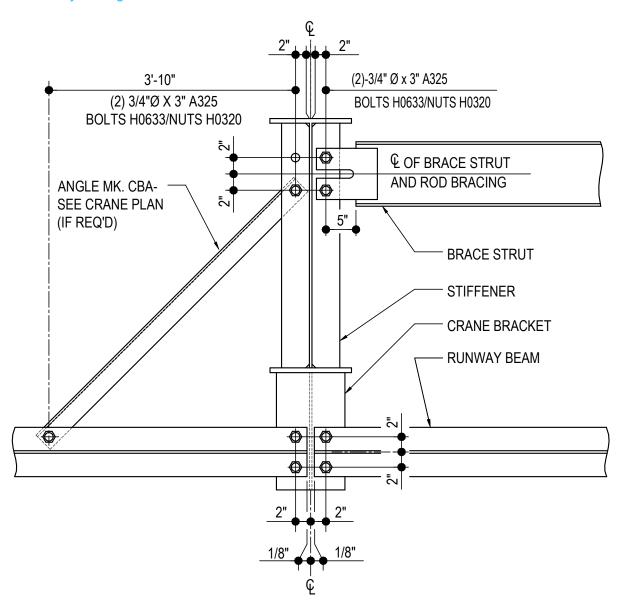
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1120 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1120)

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE FACE OF THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

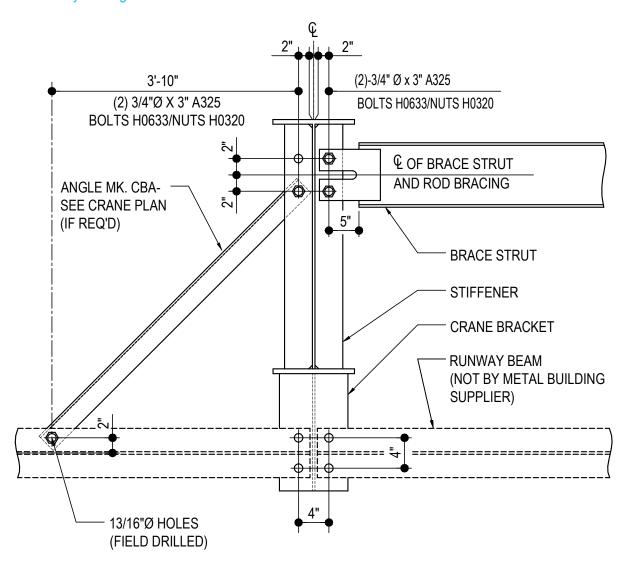
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1121 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1121)

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE FACE OF THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

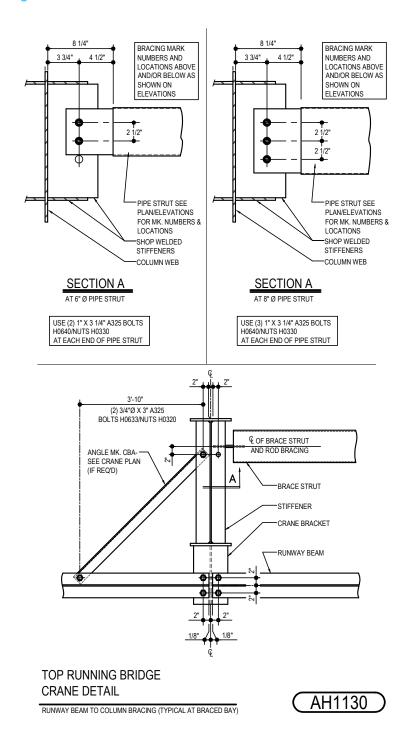
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1130 - BEAM BRACING WITH PIPE BRACE (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) SHOP WELDED STIFFENER: PSC19 AT BU2447 W/ DOUBLE ROD, PSC67 AT BU1663, PSC69 AT BU2447. IF THE BRACKET IS A CUSTOM SIZE THE STIFFENER WILL BE A NON STANDARD SIZE.

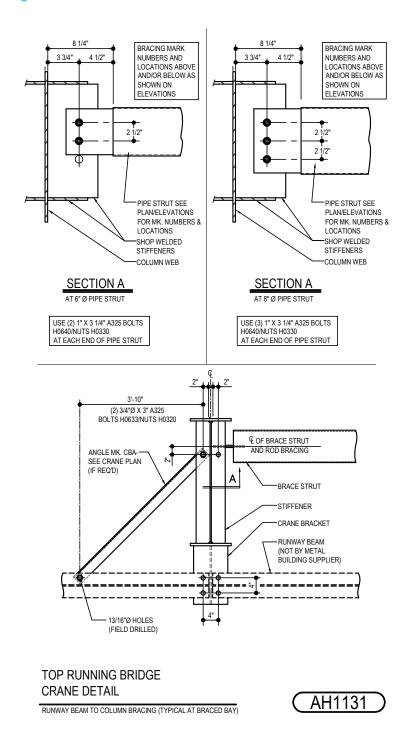
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 2



PRIMARY FRAMING

AH1131 - BEAM BRACING WITH PIPE BRACE (BEAM NOT BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) SHOP WELDED STIFFENER: PSC19 AT BU2447 W/ DOUBLE ROD, PSC67 AT BU1663, PSC69 AT BU2447. IF THE BRACKET IS A CUSTOM SIZE THE STIFFENER WILL BE A NON STANDARD SIZE.

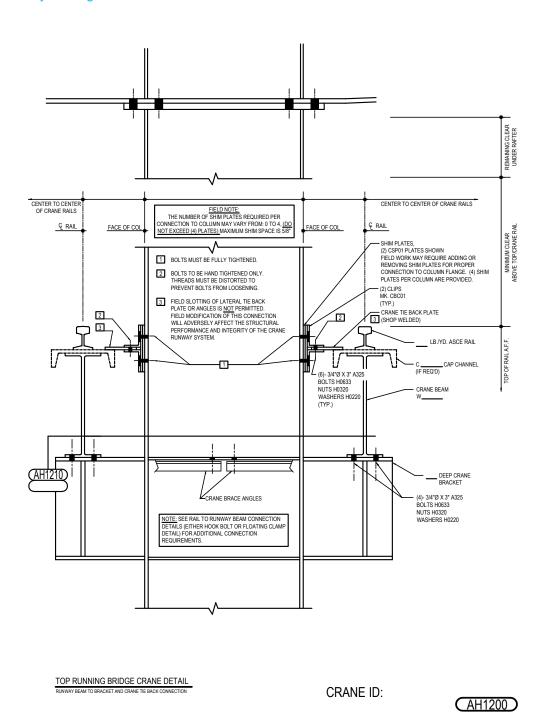
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 2



PRIMARY FRAMING

AH1200 - BEAM TO BRACKET STD. CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

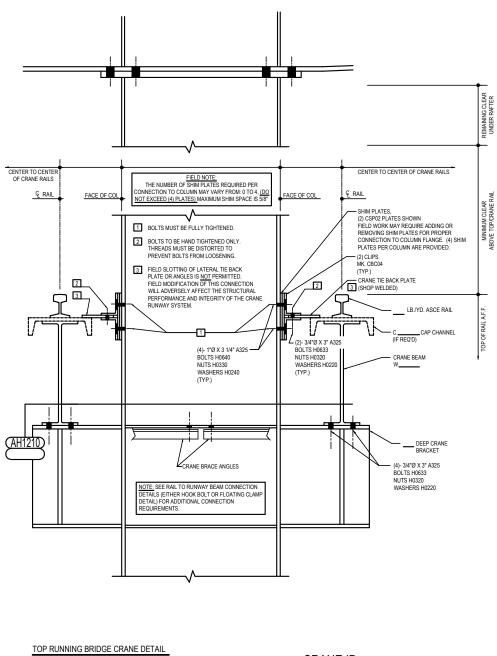
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1200 - BEAM TO BRACKET HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



CRANE ID:

(AH1200)

Detail Size (W x H): 2 x 3

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued Issued By: WME

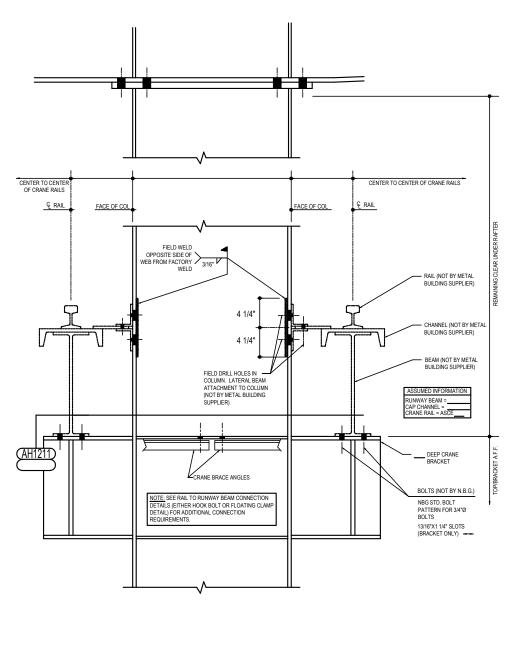
: 04.27.20 (2019.051)



PRIMARY FRAMING

AH1200 - BEAM TO BRACKET (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

CRANE ID:

(AH1200)

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

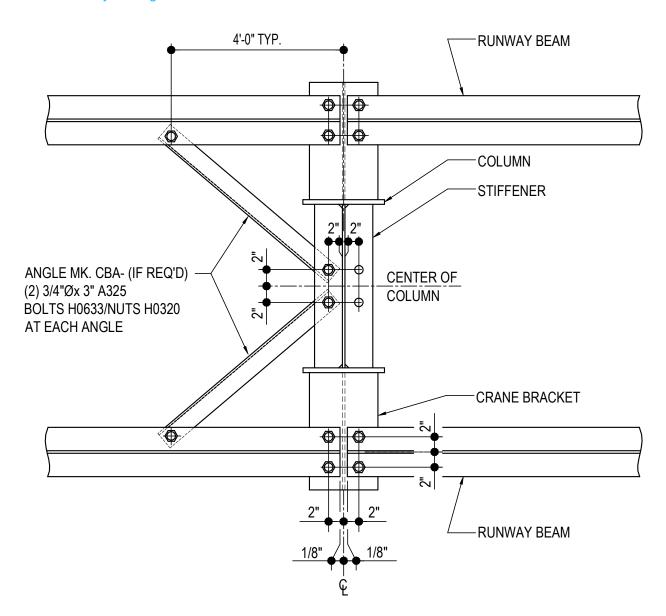
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 2 x 3



PRIMARY FRAMING

AH1210 - BEAM BRACING WITH NO BRACE STRUT (BEAM BY NBG)

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TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN

AH1210

Detailer Notes:

1)

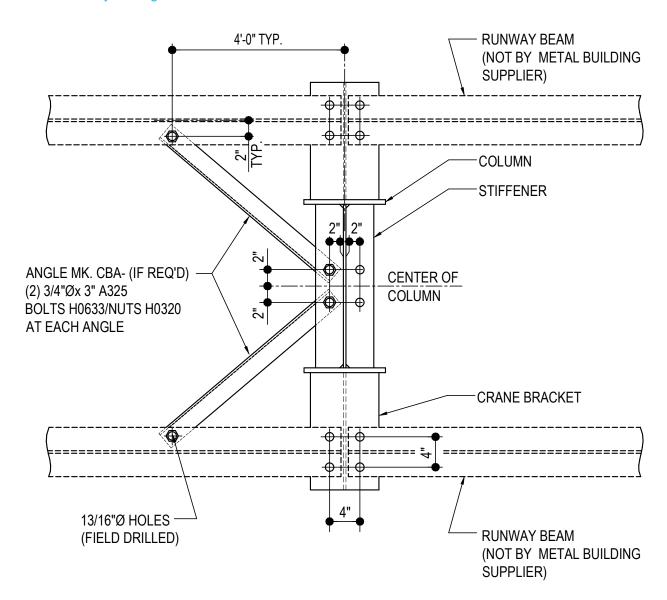
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1211 - BEAM BRACING WITH NO BRACE STRUT (BEAM NOT BY NBG)

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TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN

AH1211

Detailer Notes:

1)

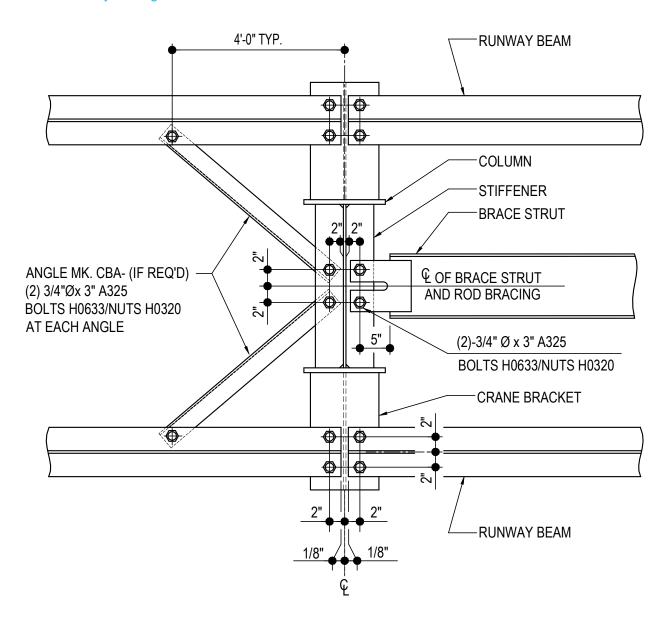
Issued: 04.27.20 (2019.051) CERTIFIED ERECTION DETAILS Detail Size (W x H): 1 x 1 Issued By: WME



PRIMARY FRAMING

AH1220 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

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TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1220)

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

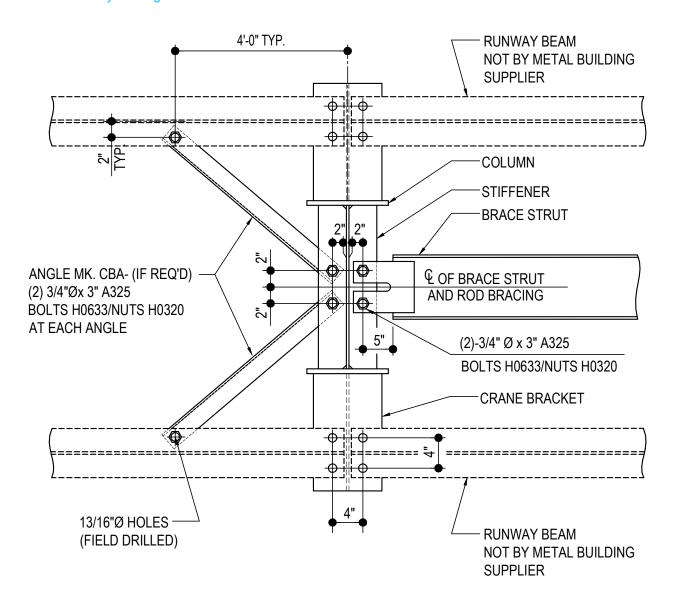
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1221 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1221)

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

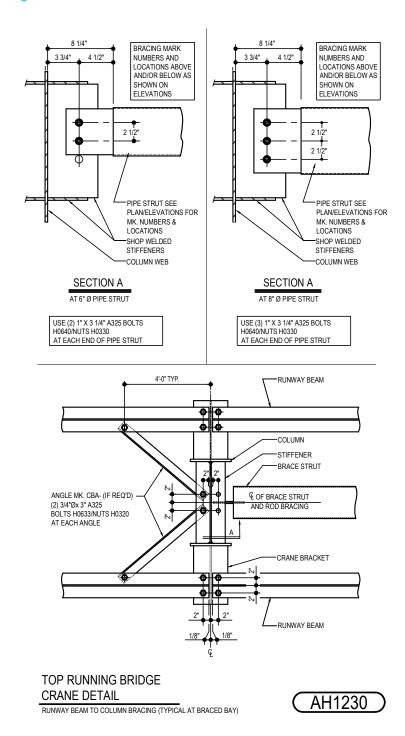
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1230 - BEAM BRACING WITH PIPE STRUT (BEAM BY NBG)

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Detailer Notes:

1) SHOP WELDED STIFFENER: PSC19 AT BU2447 W/ DOUBLE ROD, PSC67 AT BU1663, PSC69 AT BU2447. IF THE BRACKET IS A CUSTOM SIZE THE STIFFENER WILL BE A NON STANDARD SIZE.

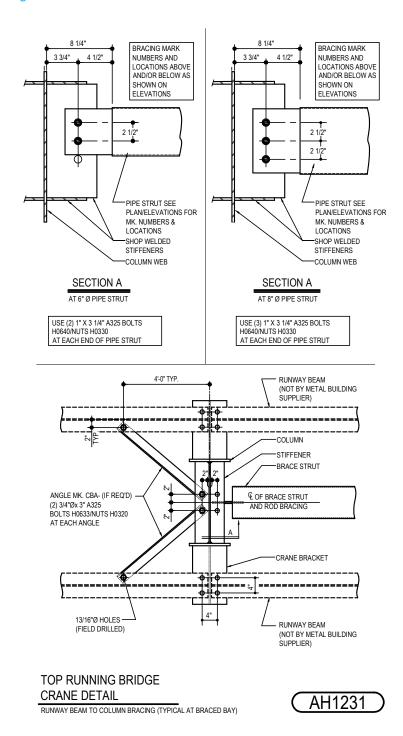
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 2



PRIMARY FRAMING

AH1231 - BEAM BRACING WITH PIPE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) SHOP WELDED STIFFENER: PSC19 AT BU2447 W/ DOUBLE ROD, PSC67 AT BU1663, PSC69 AT BU2447. IF THE BRACKET IS A CUSTOM SIZE THE STIFFENER WILL BE A NON STANDARD SIZE.

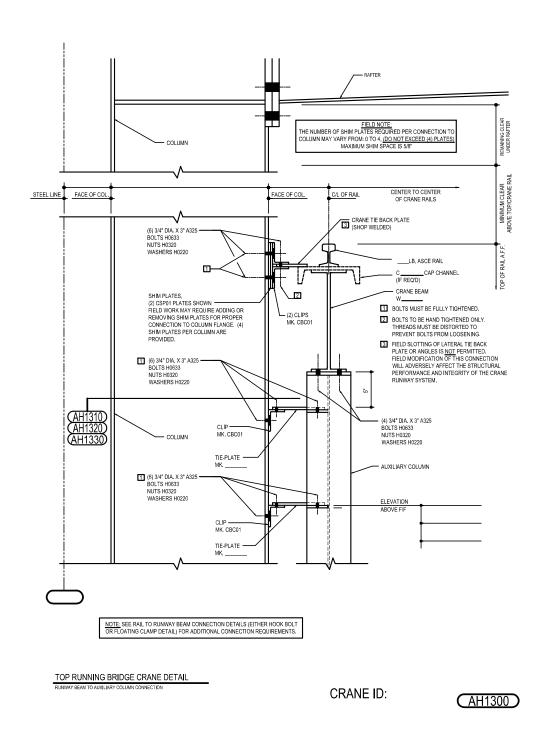
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 2



PRIMARY FRAMING

AH1300 - BEAM TO AUXILIARY COLUMN STD. CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

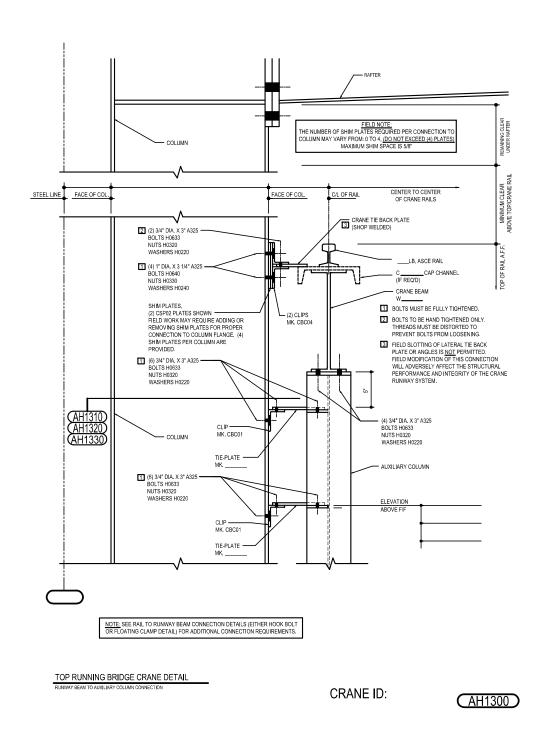
Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1300 - BEAM TO AUXILIARY COLUMN HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

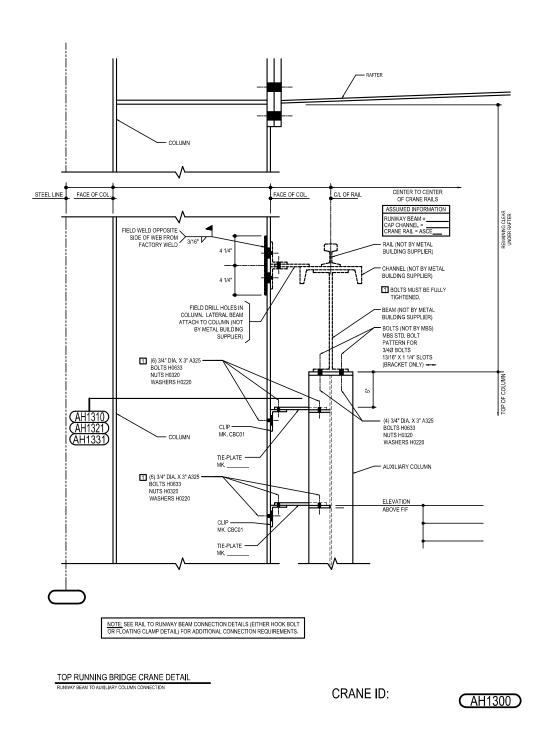
Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1300 - BEAM TO AUXILIARY COLUMN (BEAM NOT BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

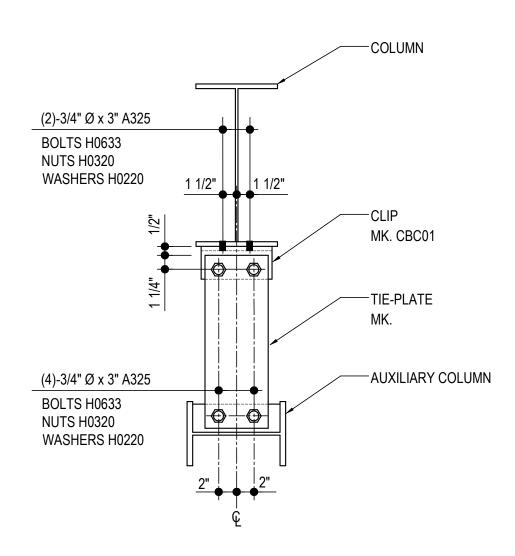
Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1310 - COLUMN TO AUXILIARY COLUMN CONNECTION

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

COLUMN TO AUXILIARY COLUMN ATTACHMENT

AH1310

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

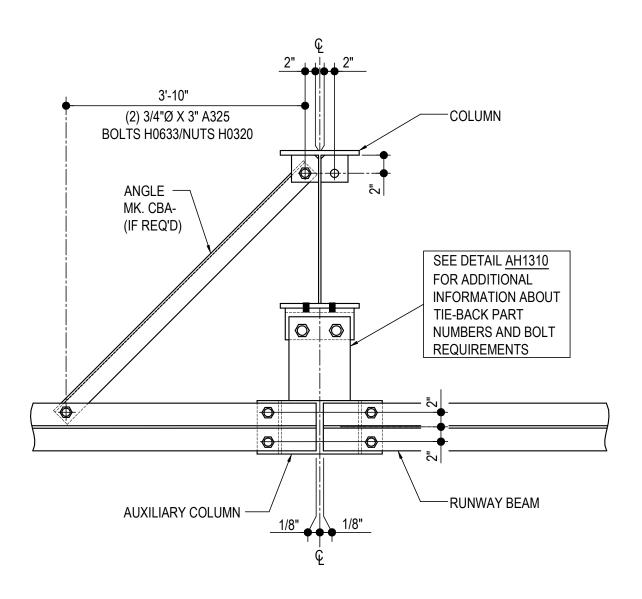
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1320 - BEAM BRACING NO BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

(AH1320)

Detailer Notes:

1)

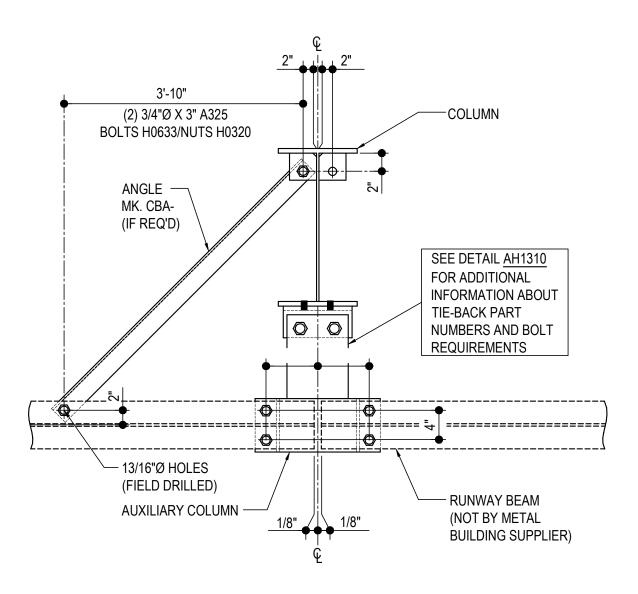
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1321 - BEAM BRACING NO BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

(AH1321)

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

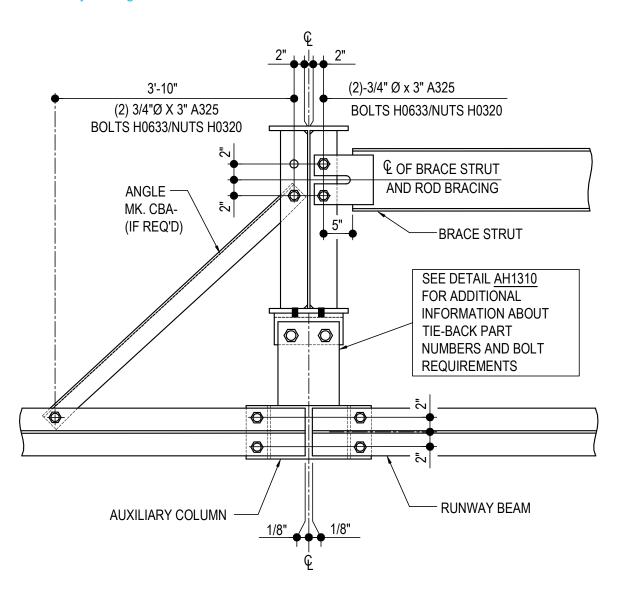
Issued: 04.27.20 (2019.051) CERTIFIED ERECTION DETAILS Detail Size (W x H): 1 x 1 Issued By: WME



PRIMARY FRAMING

AH1330 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

(AH1330)

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

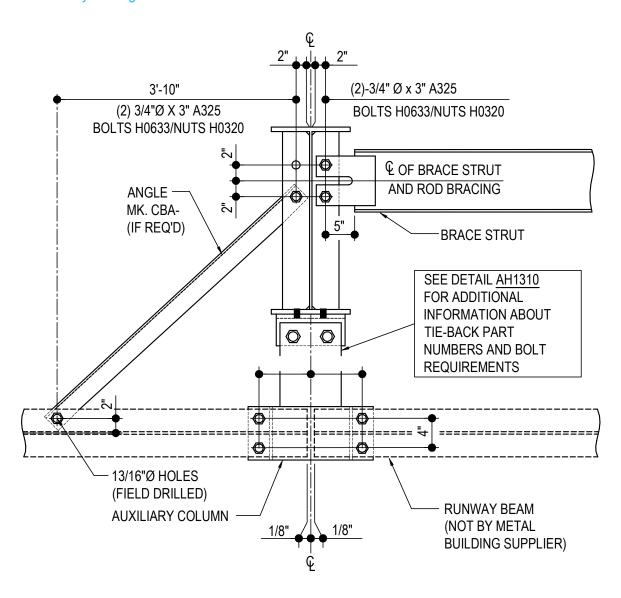
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1331 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL UNLESS NOTED OTHERWISE)

(AH1331)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

2) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

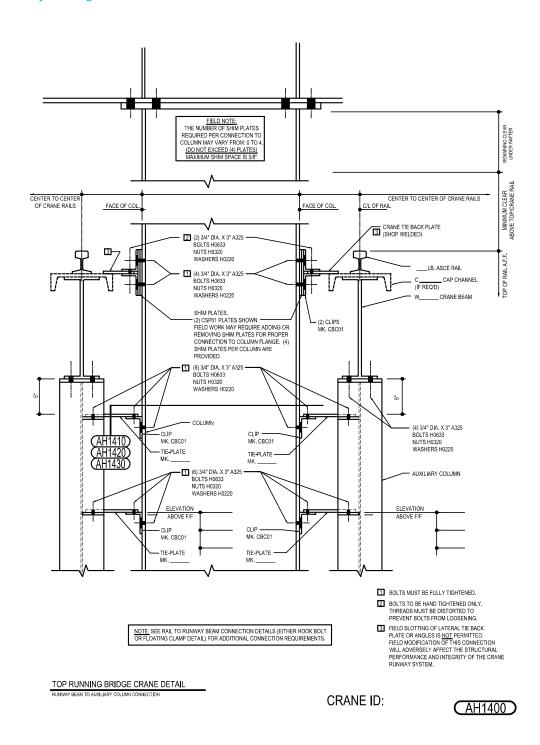
Issued : 04.27.20 (2019.051) Issued By : WME



PRIMARY FRAMING

AH1400 - BEAM TO AUXILIARY COLUMN STD. CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

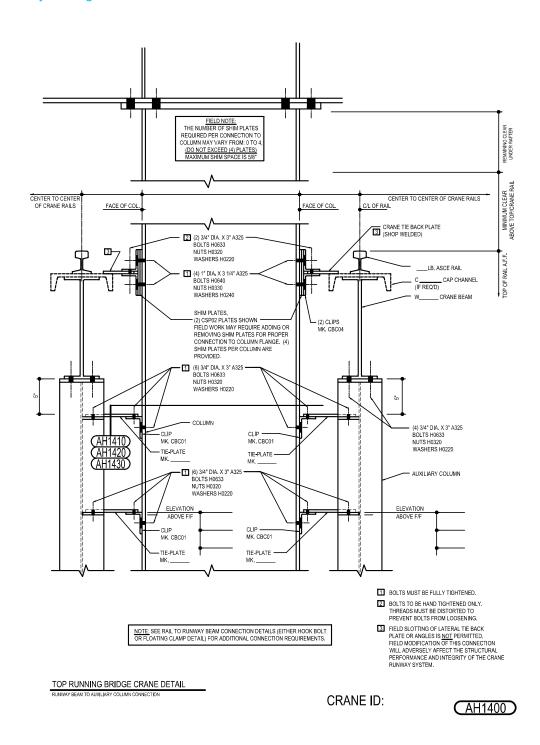
Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1400 - BEAM TO AUXILIARY COLUMN HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3

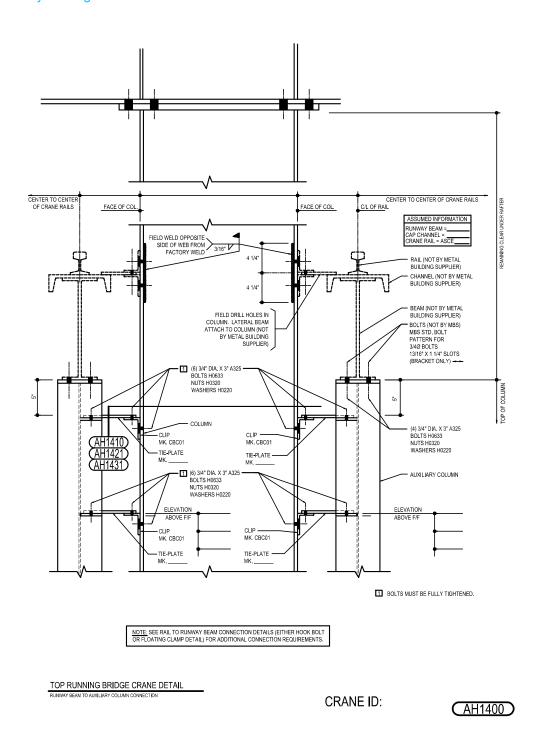
Issued By: KMC



PRIMARY FRAMING

AH1400 - BEAM TO AUXILIARY COLUMN (BEAM NOT BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 2 x 3

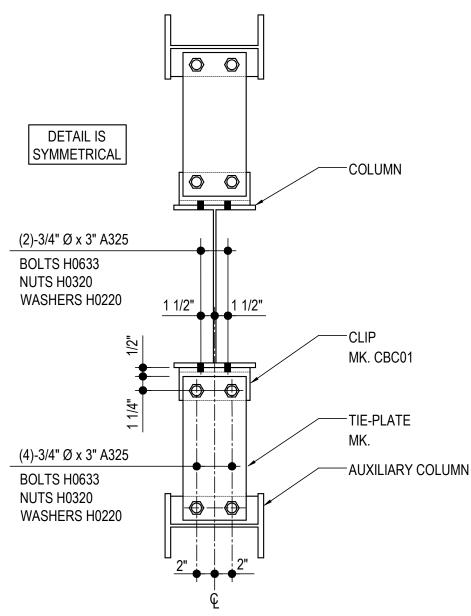
Issued By: KMC



PRIMARY FRAMING

AH1410 - COLUMN TO AUXILIARY COLUMN CONNECTION

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

COLUMN TO AUXILIARY COLUMN ATTACHMENT

<u>AH1410</u>

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

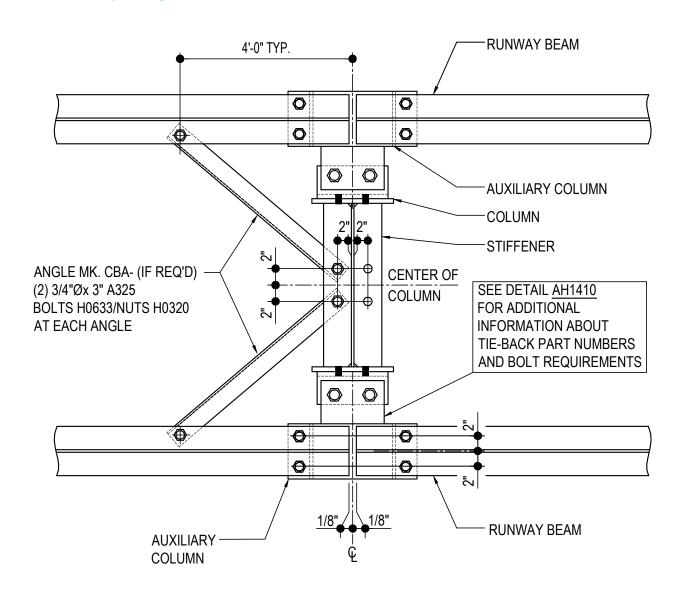
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1420 - BEAM BRACING NO BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO AUXILIARY COLUMN (TYPICAL UNLESS NOTED OTHERWISE)

<u>(AH1420)</u>

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

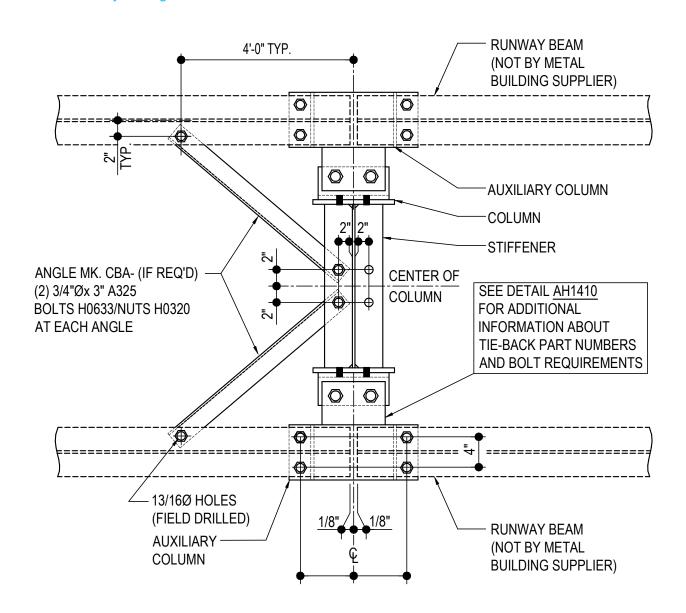
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1421 - BEAM BRACING NO BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO AUXILIARY COLUMN (TYPICAL UNLESS NOTED OTHERWISE)

<u>(AH1421</u>)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

2) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

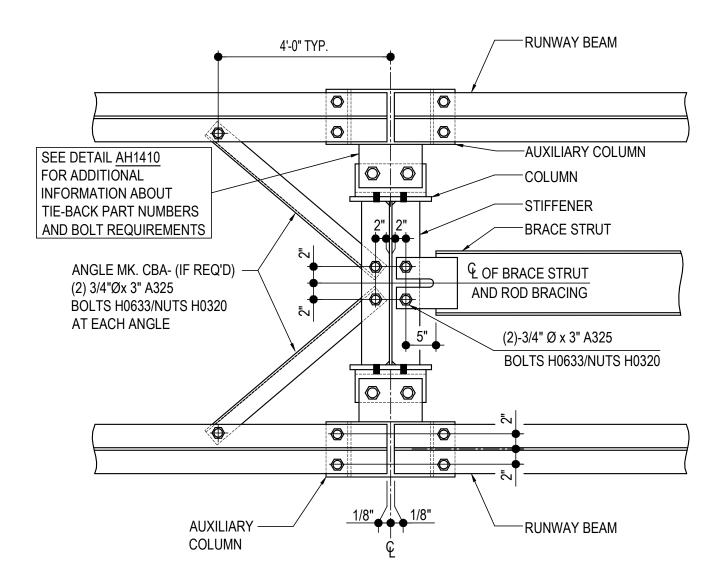
Issued : 04.27.20 (2019.051) Issued By : WME



PRIMARY FRAMING

AH1430 - BEAM BRACING WITH BRACE STRUT (BEAM BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

: 04.27.20 (2019.051)

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1430)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

2) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

Issued By: WME

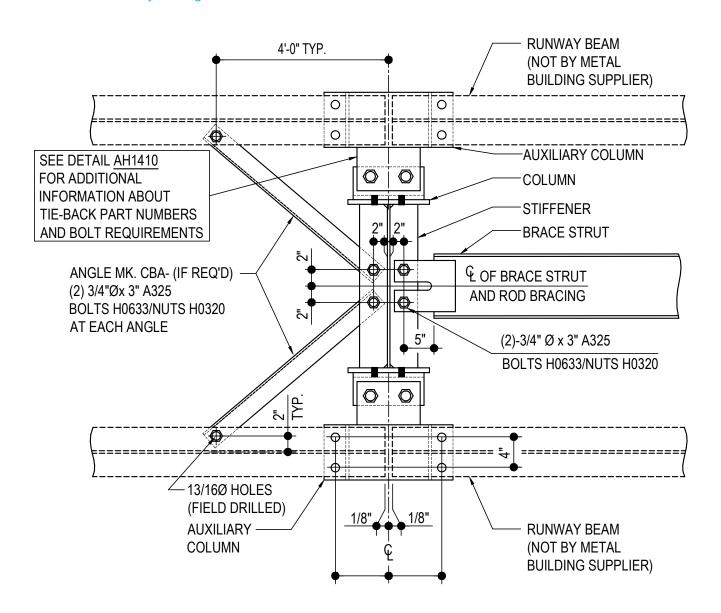
Issued



PRIMARY FRAMING

AH1431 - BEAM BRACING WITH BRACE STRUT (BEAM NOT BY NBG)

Download the DWG file by clicking here.



TOP RUNNING BRIDGE CRANE DETAIL

RUNWAY BEAM TO COLUMN BRACING (TYPICAL AT BRACED BAY)

(AH1431)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) PLEASE NOTE THAT THE 2" DIMENSION ON THE BRACE STRUT SHOWN ABOVE (THE ONE AT THE VERY TOP OF THE DETAIL) IS FROM THE WEB TO HOLE AND NOT FROM CENTERLINE OF WEB.

2) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

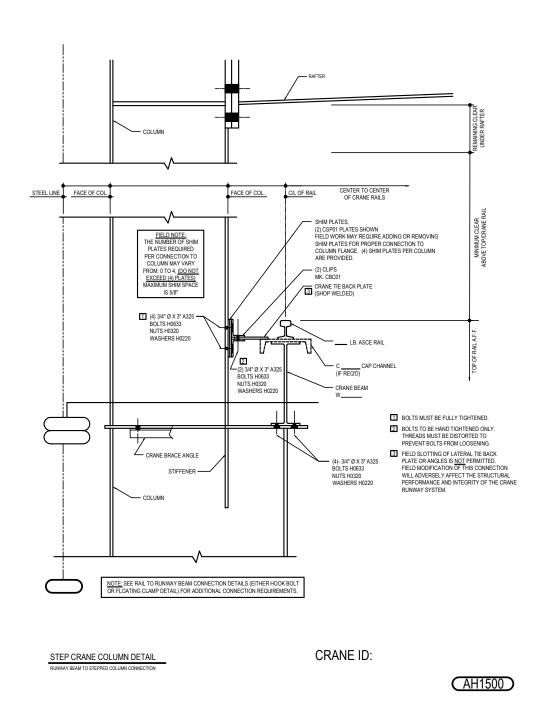
Issued : 04.27.20 (2019.051) Issued By : WME



PRIMARY FRAMING

AH1500 - BEAM TO STEPPED COLUMN STD. CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1110, AH1120, AND AH1130 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

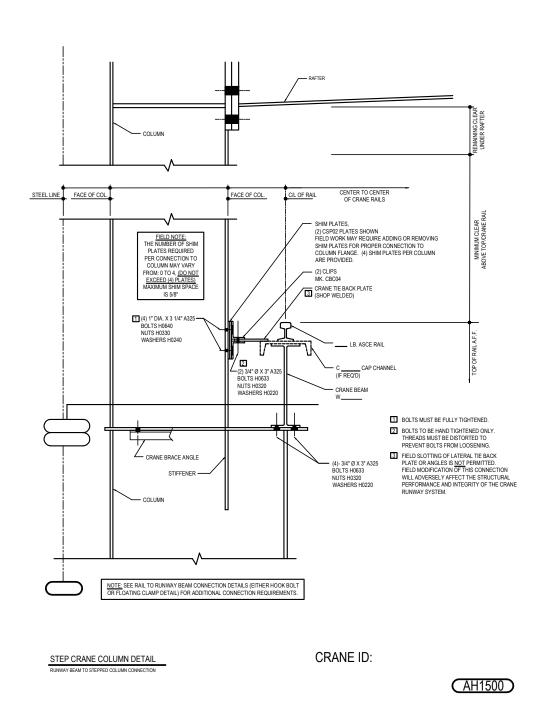
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1500 - BEAM TO STEPPED COLUMN HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1110, AH1120, AND AH1130 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

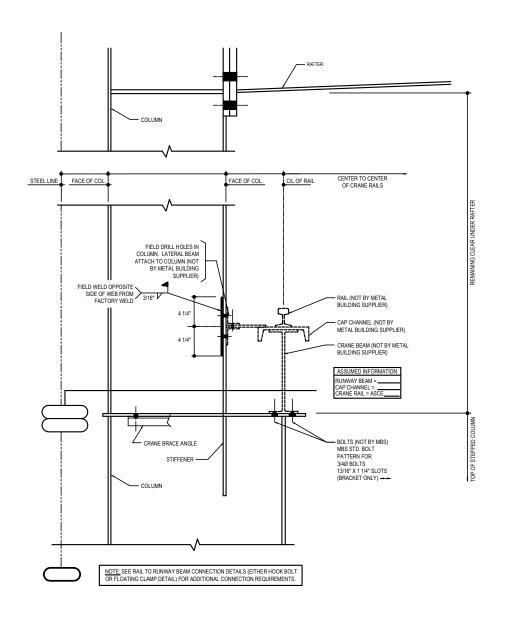
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 2 x 3



PRIMARY FRAMING

AH1500 - BEAM TO STEPPED COLUMN (BEAM NOT BY NBG)

Download the DWG file by clicking here.



STEP CRANE COLUMN DETAIL
RUNWAY BEAM TO STEPPED COLUMN CONNECTION

CRANE ID:

(AH1500)

Detail Size (W x H): 2 x 3

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1110, AH1120, AND AH1130 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

Issued : 04.27.20 (2019.051) Issued By: WME

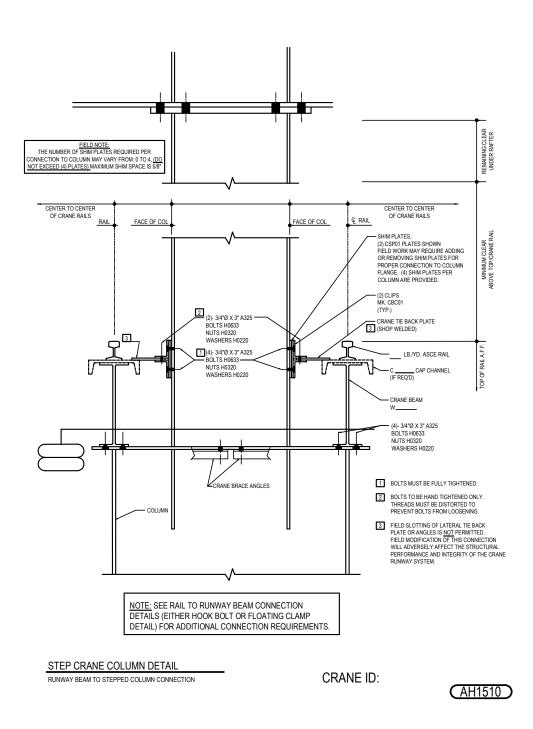


PRIMARY FRAMING

Detail Size (W x H): 2 x 3

AH1510 - BEAM TO STEPPED COLUMN STD. CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1210, AH1220, AND AH1230 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

Issued : 04.27.20 (2019.051) Issued By : WME

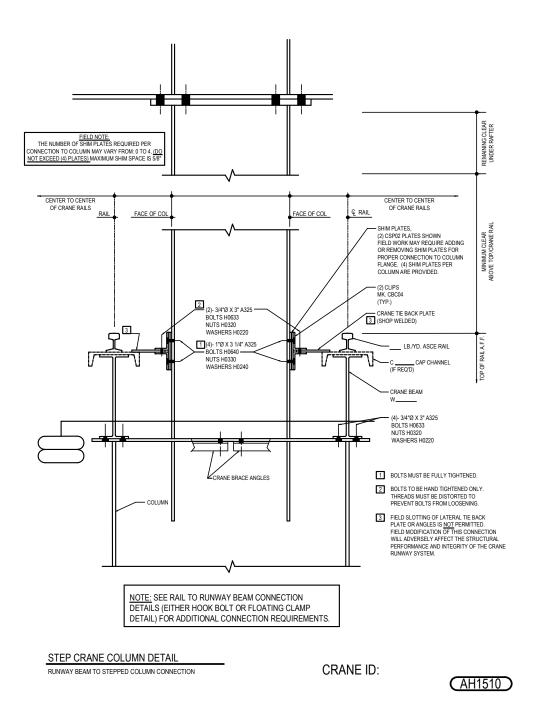


PRIMARY FRAMING

Detail Size (W x H): 2 x 3

AH1510 - BEAM TO STEPPED COLUMN HEAVY CONNECTION (BEAM BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1210, AH1220, AND AH1230 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

Issued : 04.27.20 (2019.051) Issued By: WME

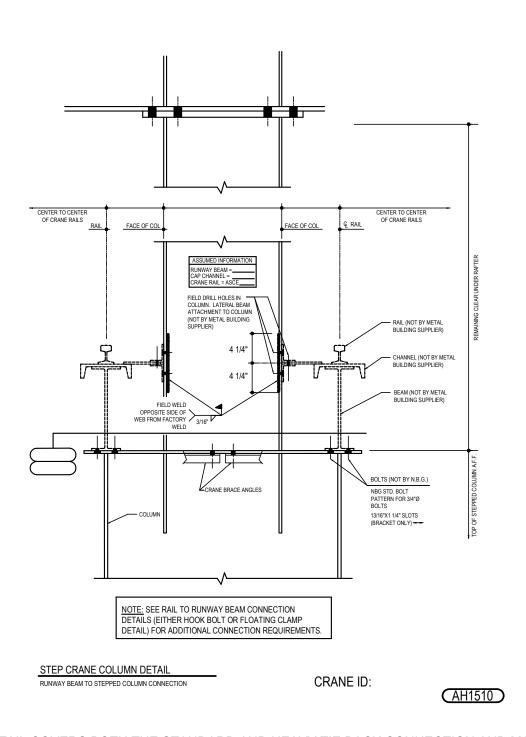


PRIMARY FRAMING

Detail Size (W x H): 2 x 3

AH1510 - BEAM TO STEPPED COLUMN (BEAM NOT BY NBG)

Download the DWG file by clicking here.



Detailer Notes:

1) THIS DETAIL COVERS BOTH THE STANDARD AND HEAVY TIE BACK CONNECTION AND MATERIAL BY OTHERS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN LAYERS OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

2) USE DETAILS AH1210, AH1220, AND AH1230 FOR BEAM BRACING DETAILS SOME MODIFICATIONS TO THE DETAILS REQUIRED.

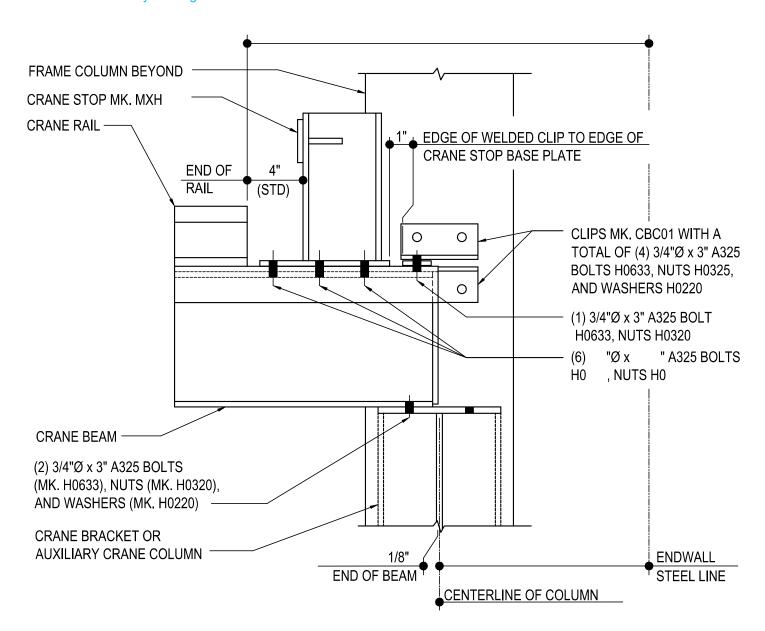
Issued : 04.27.20 (2019.051) Issued By : WME



PRIMARY FRAMING

AH1600 - CRANE STOP DETAIL (WITH CBC01)

Download the DWG file by clicking here.



TOP RUNNING CRANE STOP

(AH1600)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE CBC01 AND CBC04 OPTIONS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN THEM OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued : 10.26.20 (MR2020.11) CI

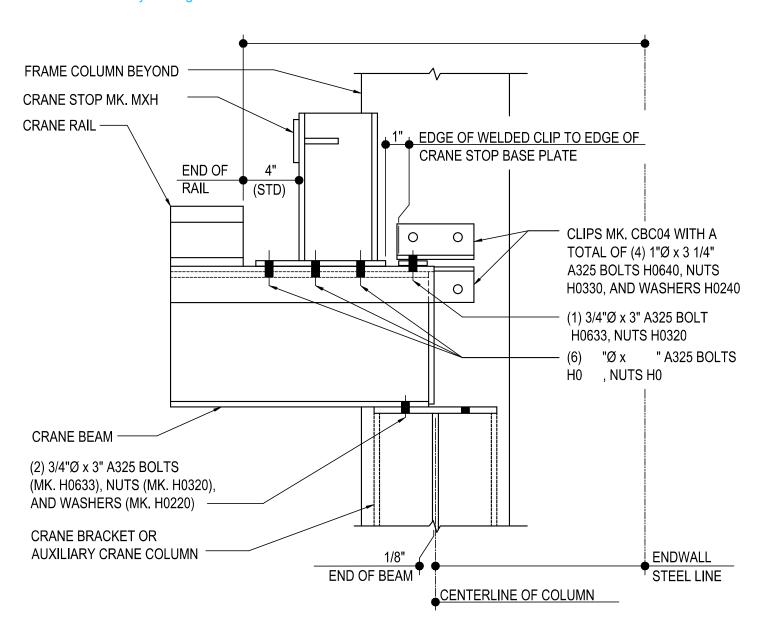
Issued By: KMC



PRIMARY FRAMING

AH1600 - CRANE STOP DETAIL (WITH CBC04)

Download the DWG file by clicking here.



TOP RUNNING CRANE STOP

(AH1600)

Detail Size (W x H): 1 x 1

Detailer Notes:

1) THIS DETAIL COVERS BOTH THE CBC01 AND CBC04 OPTIONS. IT IS CONTROLLED BY LAYERS AND ATTRIBUTES. SIMPLY TURN THEM OFF AND ON WITH THE LIGHTBULBS. TO ACCESS ATTRIBUTES DOUBLE CLICK DETAIL.

Issued : 10.26.20 (MR2020.11) CERTIFIED ERECTION DETAILS

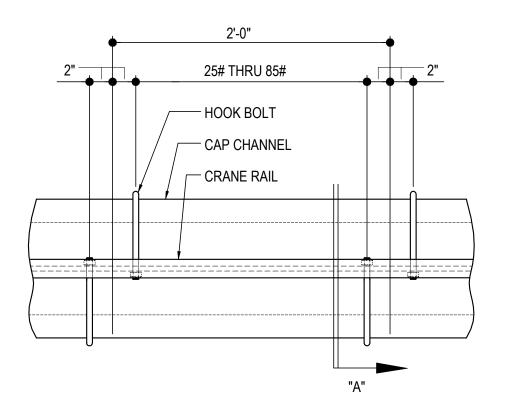
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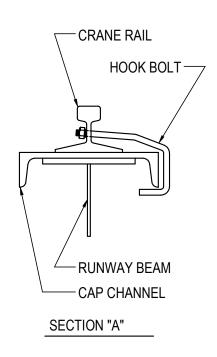


PRIMARY FRAMING

AH1620 - RAIL TO RUNWAY HOOK BOLT

Download the DWG file by clicking here.





RAIL SIZE:

HOOK BOLT DIAMETER:

JOINT BARS: STANDARD

RAIL	HOOK BOLT DIA.
25# - 30#	5/8"
40# - 60#	3/4"
70# - 85#	7/8"

RAIL TO RUNWAY BEAM HOOK BOLT CONNECTION

TOP RUNNING BRIDGE CRANE DETAIL

(AH1620)

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

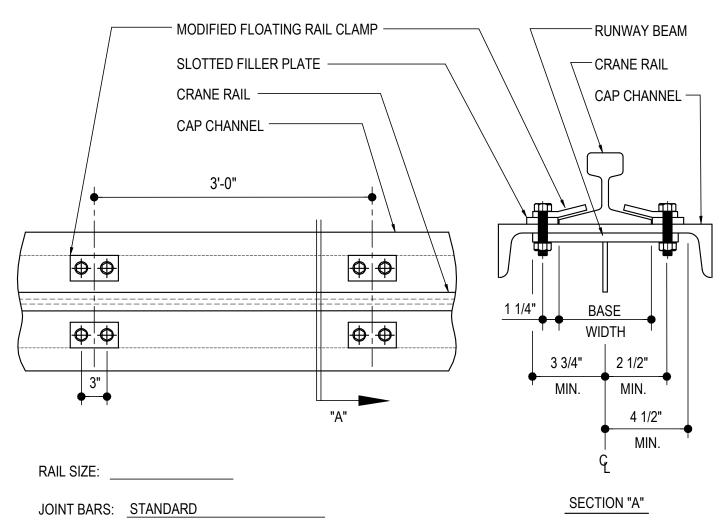
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1630 - RAIL TO RUNWAY BEAM FLOATING CLAMP

Download the DWG file by clicking here.



RAIL CLAMPS: (2) BOLT MODIFIED FLOATING RAIL CLAMP

BOLT SIZE: 1" Ø A325 W/ (1) LOCK WASHER

RAIL TO RUNWAY BEAM FLOATING CLAMP CONNECTION

TOP RUNNING BRIDGE CRANE DETAIL

AH1630

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

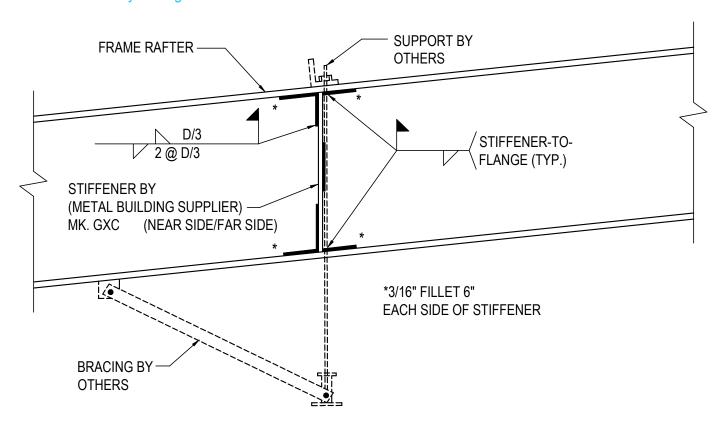
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1700 - UNDERHUNG / MONORAIL CRANE ATTACHMENT POINT (BY NBG)

Download the DWG file by clicking here.



NOTE:

- MBS IS PROVIDING FOR CRANE CAPACITY ONLY. ADDITIONAL REINFORCEMENT ON RIGID FRAMES DUE TO CRANE LOADS IS NOT BY MBS. SEE DETAIL ABOVE FOR WEB REINFORCEMENT INFORMATION AT CRANE ATTACHMENT LOCATIONS.
- ALL WELDING MUST BE PERFORMED BY AWS CERTIFIED WELDERS WHO ARE QUALIFIED FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

UNDERHUNG / MONORAIL CRANE ATTACHMENT POINT

AH1700

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

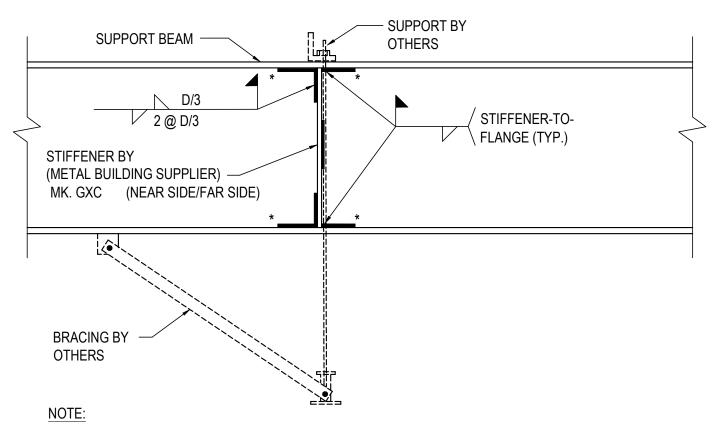
Issued : 04.27.20 (2019.051) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



PRIMARY FRAMING

AH1710 - TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT (BY NBG)

Download the DWG file by clicking here.



- MBS IS PROVIDING FOR CRANE CAPACITY ONLY. ADDITIONAL REINFORCEMENT ON RIGID FRAMES DUE TO CRANE LOADS IS NOT BY MBS. SEE DETAIL ABOVE FOR WEB REINFORCEMENT INFORMATION AT CRANE ATTACHMENT LOCATIONS.
- ALL WELDING MUST BE PERFORMED BY AWS CERTIFIED WELDERS WHO ARE QUALIFIED FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT

AH1710

Detail Size (W x H): 1 x 1

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

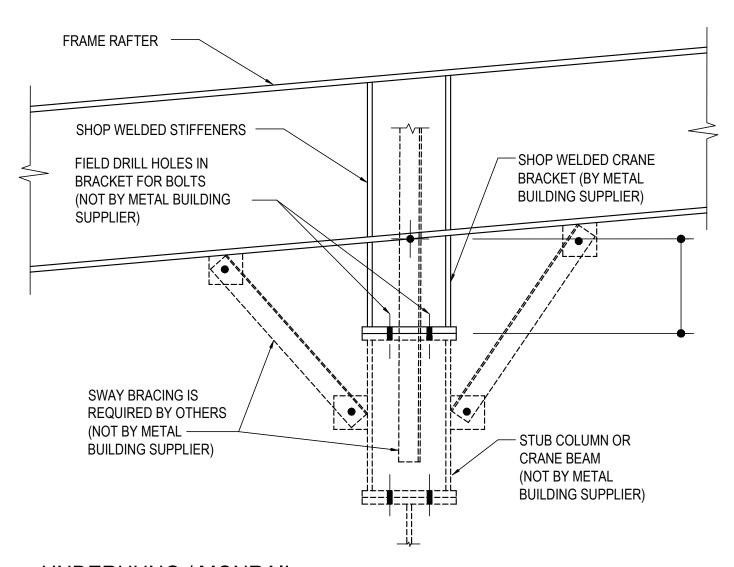
Issued : 04.27.20 (2019.051)



PRIMARY FRAMING

AH1720 - UNDERHUNG / MONORAIL CRANE ATTACHMENT POINT (BY NBG)

Download the DWG file by clicking here.



UNDERHUNG / MONRAIL CRANE ATTACHMENT POINT

RUNWAY BEAM, STUB/CRANE BEAM, SWAY BRACING AND CONNECTIONS (NOT BY MBS)

AH1720

Detail Size (W x H): 1 x 1

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

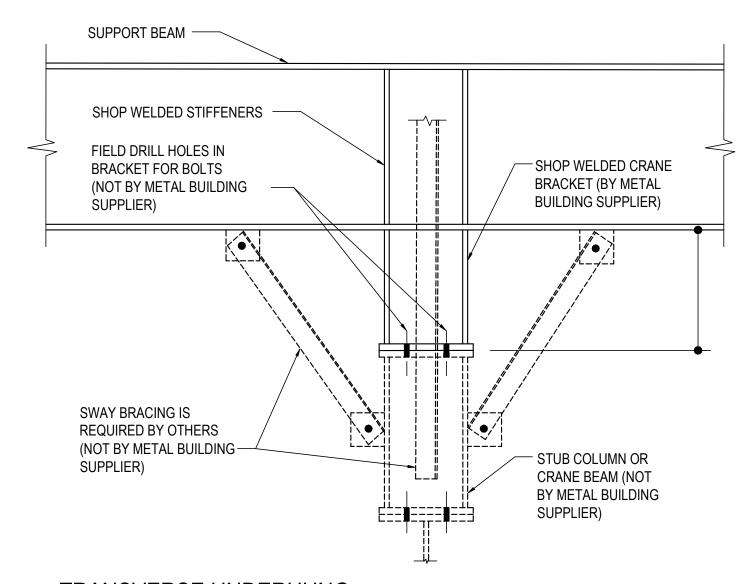
Issued : 04.27.20 (2019.051)



PRIMARY FRAMING

AH1730 - TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT (BY NBG)

Download the DWG file by clicking here.



TRANSVERSE UNDERHUNG CRANE ATTACHMENT POINT

RUNWAY BEAM, STUB/CRANE BEAM, SWAY BRACING AND CONNECTIONS (NOT BY MBS)

AH1730

Detail Size (W x H): 1 x 1

Detailer Notes:

1) THIS DETAIL IS CONTROLLED BY ATTRIBUTES. SIMPLY DOUBLE CLICK ON THE DETAIL AND FILL IN ATTRIBUTES.

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