YES, PER DOCUMENTS. CONFIRM WITH CURTAINWALL MANUFACTURER

APPROVER: VERIFY

PROVIDE TOP CONNECTION PLATE AT HSS

DO NOT CAMBER W18X40 REVISION WILL BE ISSUED

REVISE TO 4" EOS

LOCATE NOTCH PER PREVIOUS COMMENTS FROM CANNON

KICKERS NOT REQ'D WHERE MARKED OUT (13 LOCATIONS) - STIFFENERS STILL REQ'D AS DETAILED

PROVIDE TOP CONNECTION PLATE AT HSS

VERIFY SUPPORT ANGLES ARE HELD BACK AT LEAST 2" FROM OUTSIDE FACE OF HSS12X4

YES, PER DOCUMENTS. CONFIRM WITH CURTAINWALL MANUFACTURER

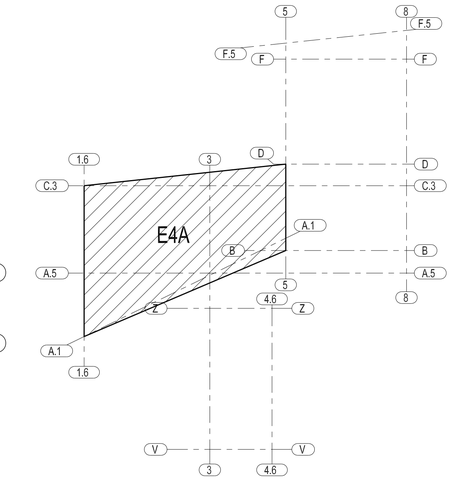
REVIEW AND VERIFY CONNECTION DEPTHS AS PREVIOUSLY DISCUSSED. MINIMUM DEPTH PER TYPICAL DETAIL OR 1 LESS BOLT IN STAGGERED CONNECTIONS.

NORTH

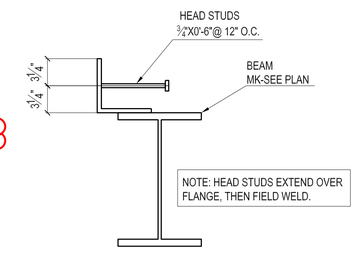
LEVEL 04 FLOOR FRAMING PLAN SEQ4

T.O.S. EL. +130'-1 ½ (UNO)

REF: S0105



KEY PLAN AT 130'-1 1/2"



HEAD STUDS FIELD WELD DETAIL

FOR APPROVAL

NOTES:

#1, ▼ DENOTES FOR LOCATION OF SHIPPING MARK.
► INDICATES MOMENT CONNECTION.
SLOPE: x : 12 INDICATES DIRECTION OF SLOPE DOWNWARD
INDICATES VERTICAL BRACE

#2, ALL ELEVATION SHOWN INDICATE MAIN PART TOP LEVEL.

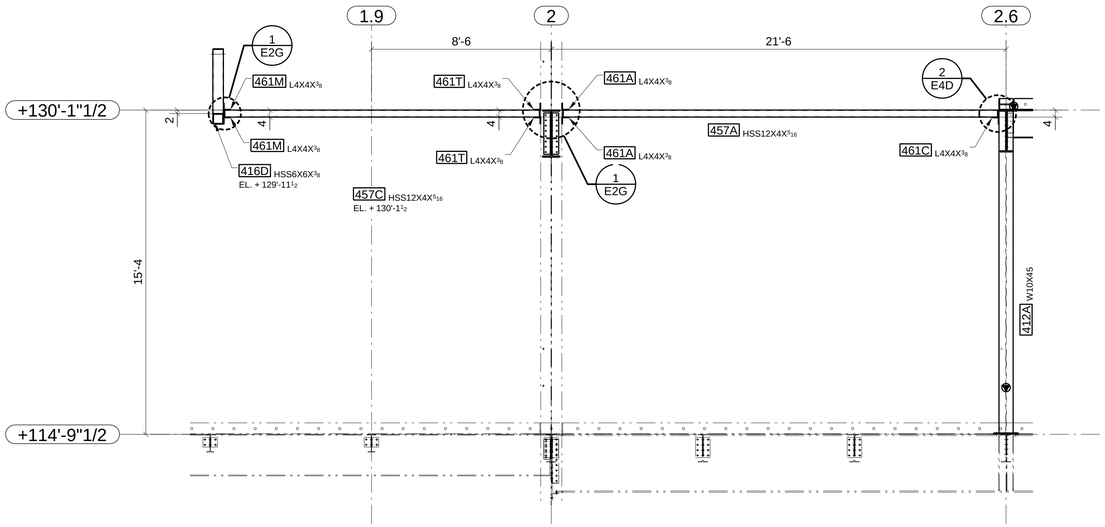
#3, U.N.O.(⟶) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

#4, (x) BELOW THE PART MARK ON FRAMING PLANS INDICATES THE NUMBER OF HEADED STUD PER BENT PLATE TO BE FIELD WELD.

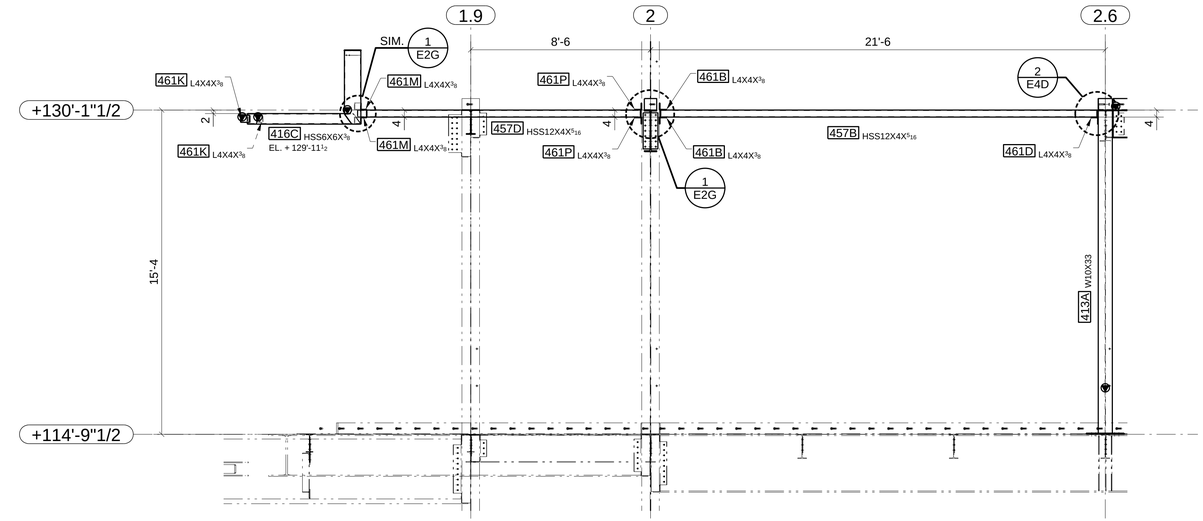
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 06/06/2016 Ckd: LJ Date: 06/14/2016
Job No.	A16013 BAT: DWG#: E4A

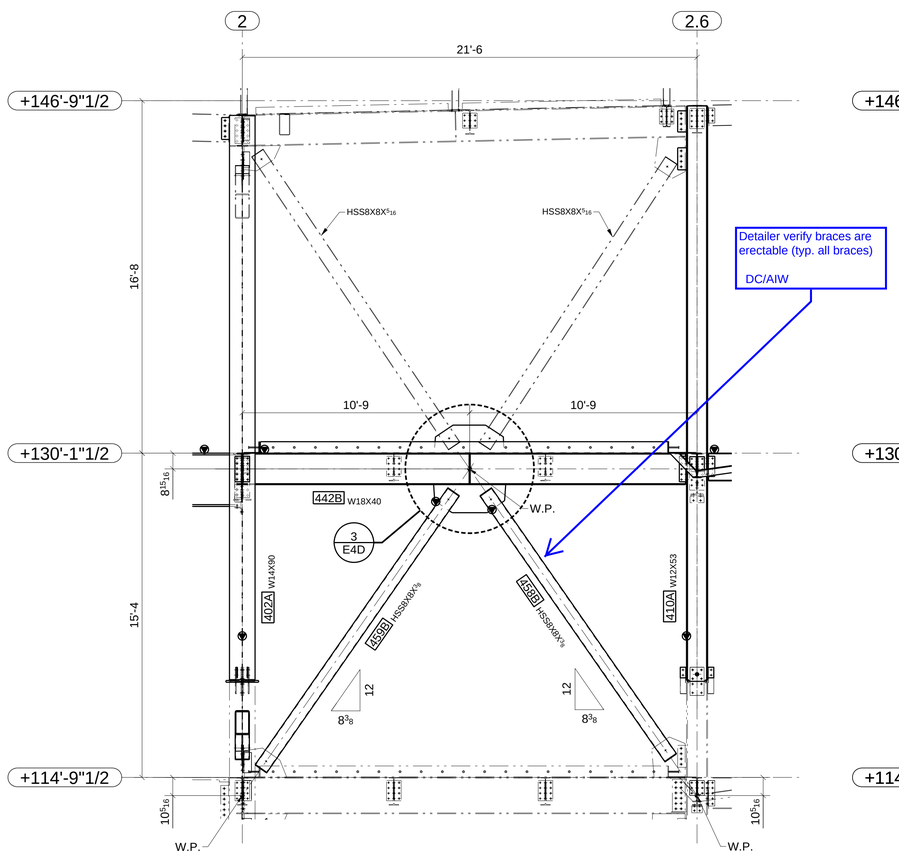
A FOR APPROVAL 06/15/16



A E4A SECTION



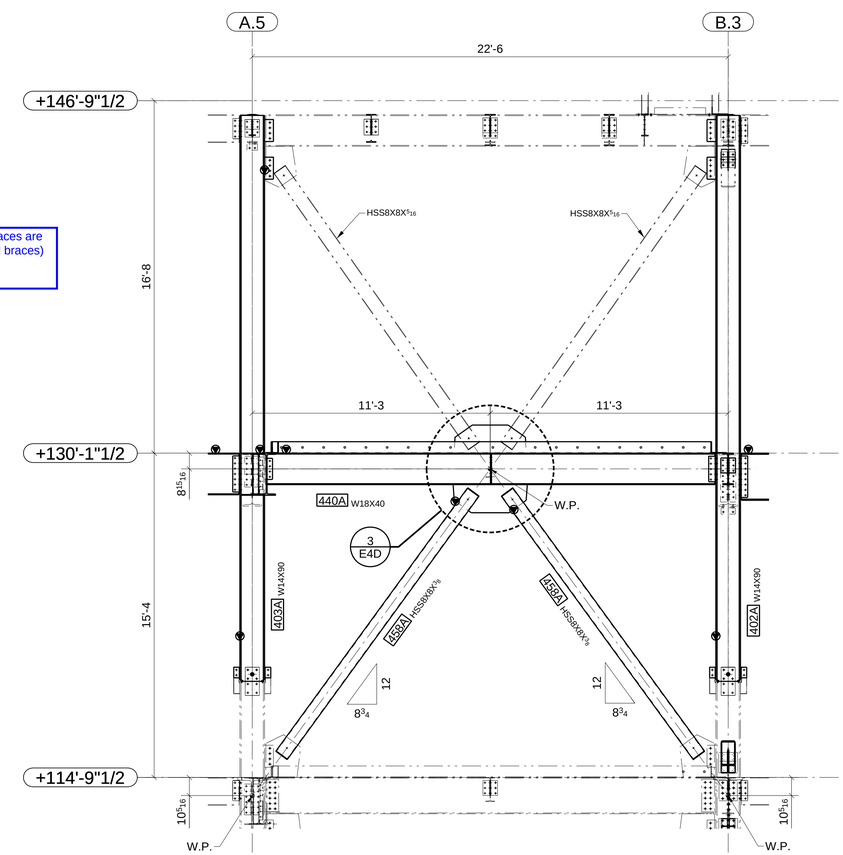
B E4A SECTION



Detailer verify braces are erectable (typ. all braces)

DC/AIW

C E4A SECTION ELEVATION ON LINE B.3



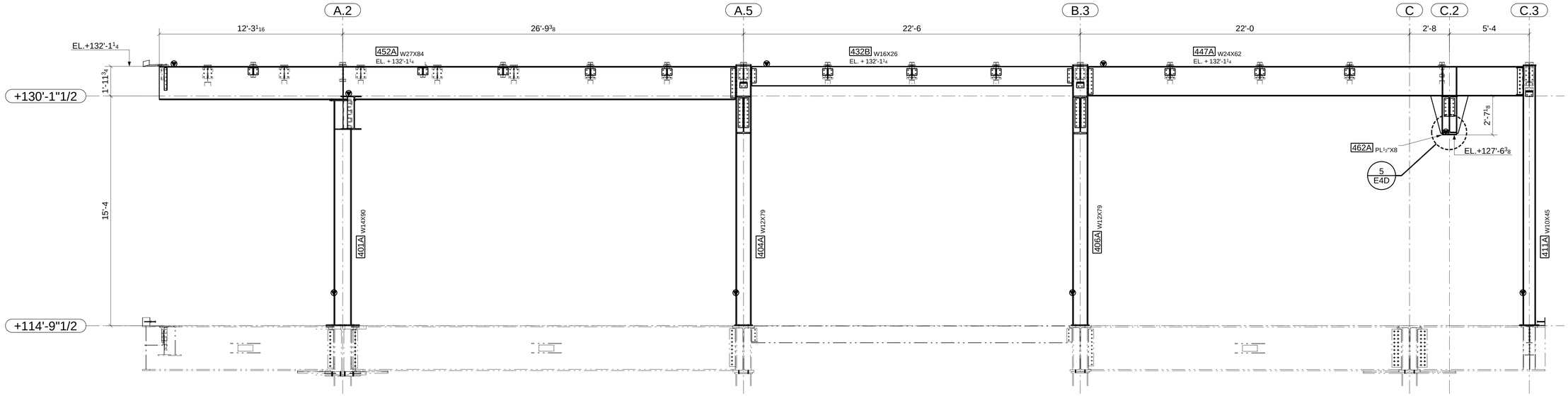
D E4A SECTION ELEVATION ON LINE 2

FOR APPROVAL

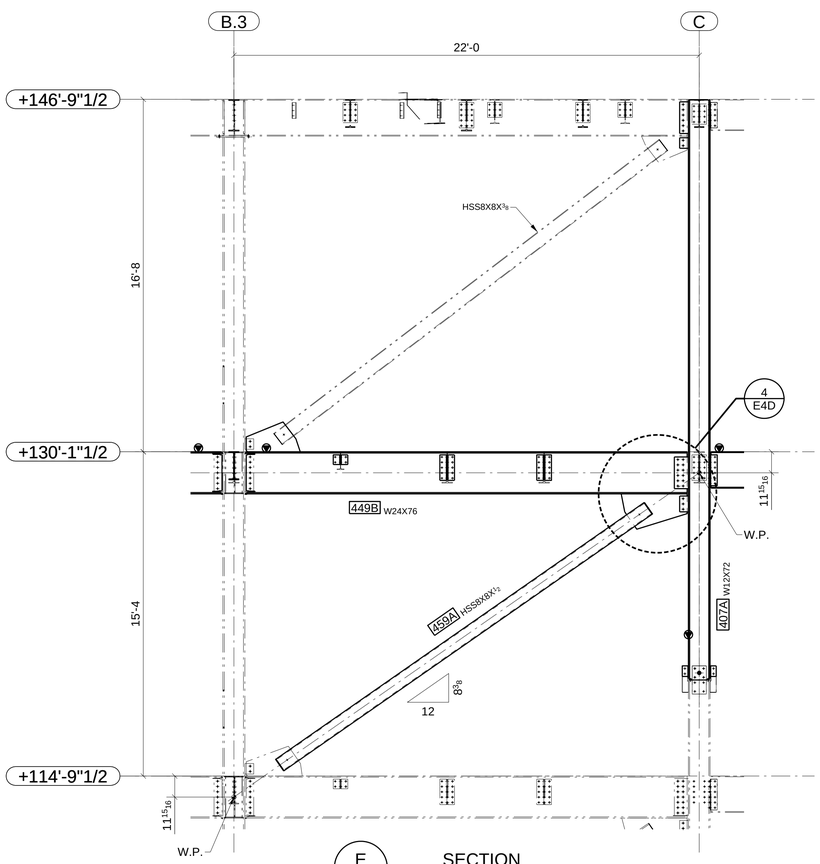
A	FOR APPROVAL	06/15/16	

ATLAS IRON WORKS
ST. LOUIS, MO.

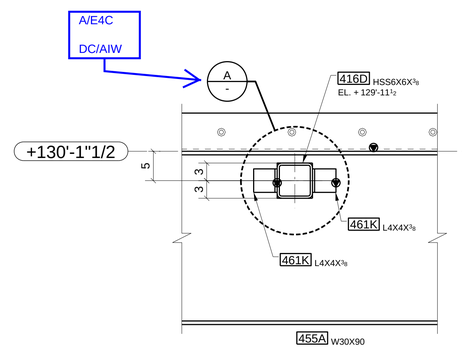
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: TLI	Date: 06/06/2016	Ckd: LJ	Date: 06/14/2016		
Job No. A16013	BAT:	DWG#: E4B			



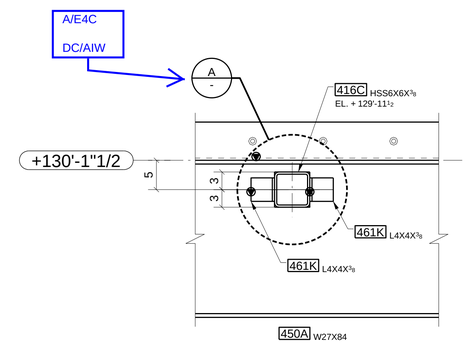
F E4A SECTION ELEVATION ON LINE 1.6



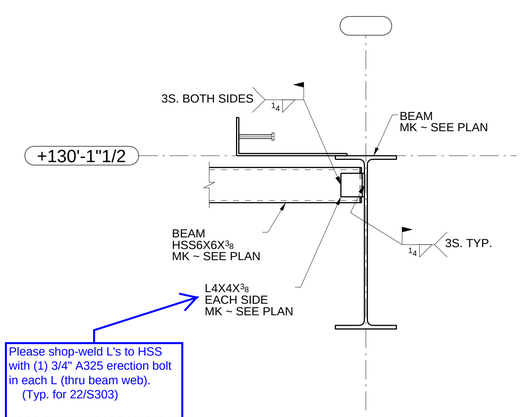
E E4A SECTION ELEVATION ON LINE 5



G E4A SECTION



H E4A SECTION



Please shop-weld L's to HSS with (1) 3/4" A325 erection bolt in each L (thru beam web).
(Typ. for 22/S303)

APPROVER PLEASE VERIFY

DC/AIW

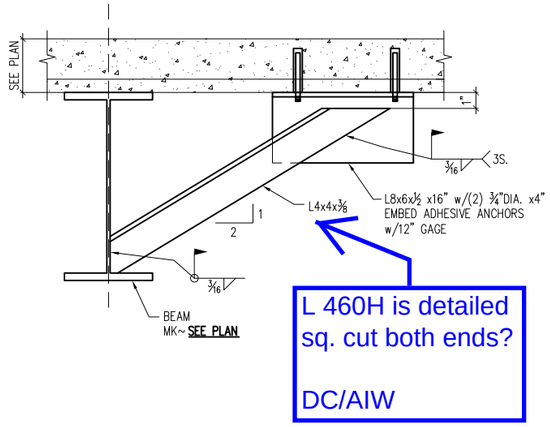
DETAIL - A
REF:22/S303

FOR APPROVAL

A	FOR APPROVAL	06/15/16

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/07/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: E4C



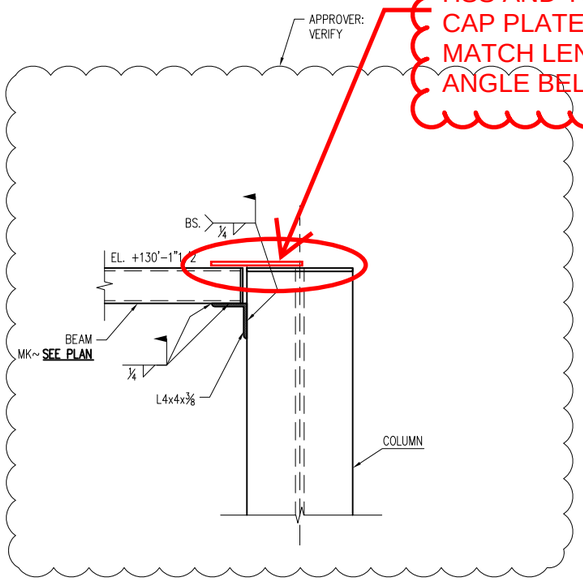
L 460H is detailed sq. cut both ends?

DC/AIW

DETAIL – 1

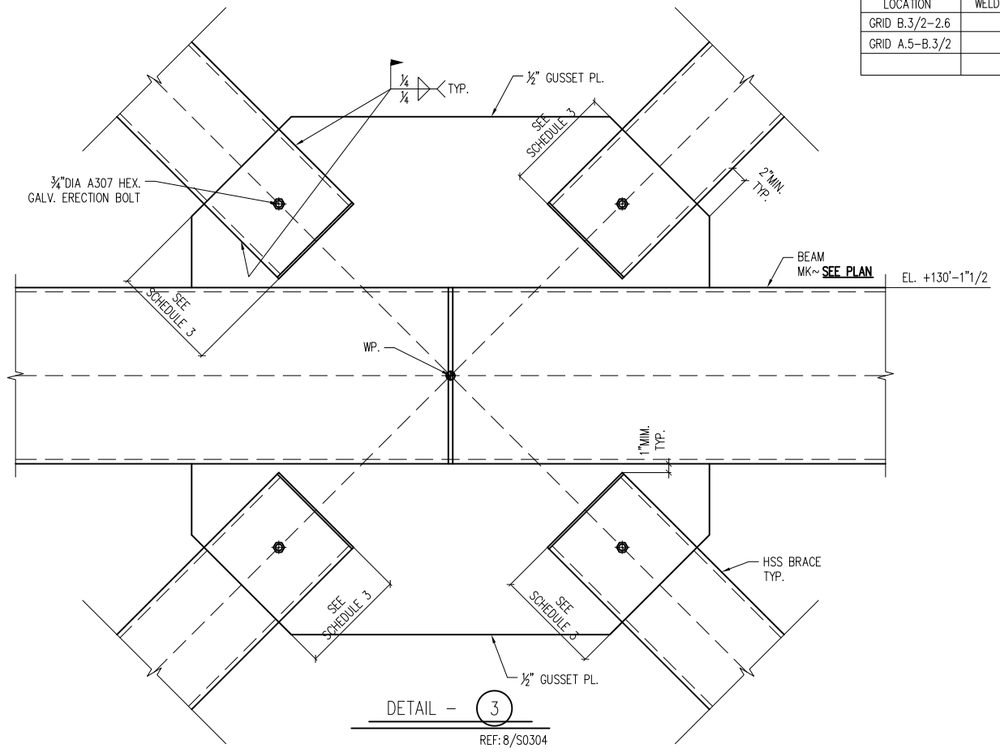
REF: 21/S0301

3/8" PLATE WITH 3 SIDED WELD TO HSS AND TO COL CAP PLATE - MATCH LENGTH OF ANGLE BELOW



DETAIL – 2

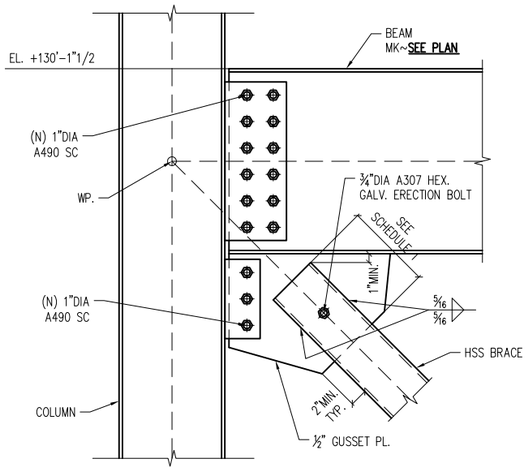
SCHEDULE 3	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	10"
GRID A.5-B.3/2	10"



DETAIL – 3

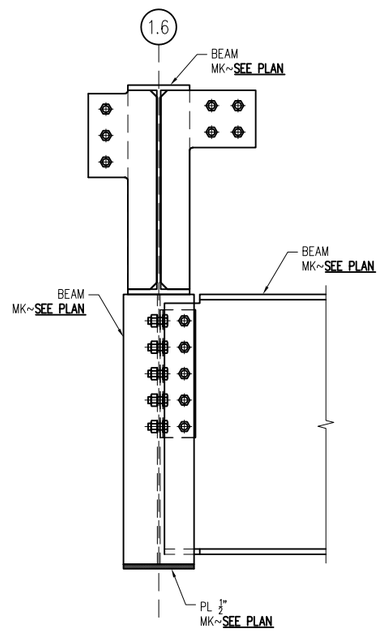
REF: 8/S0304

SCHEDULE 1	
LOCATION	WELD LENGTH
GRID B.3-C/5	12"

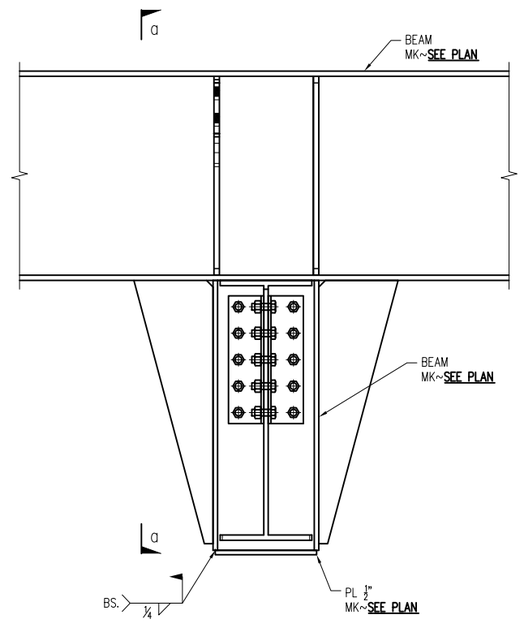


DETAIL – 4

REF: 2/S0304

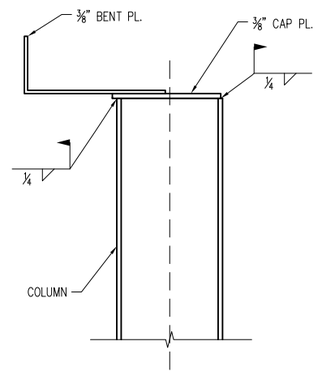


a – a



DETAIL – 5

REF: 5/S0302
12/S0303



DETAIL – 6

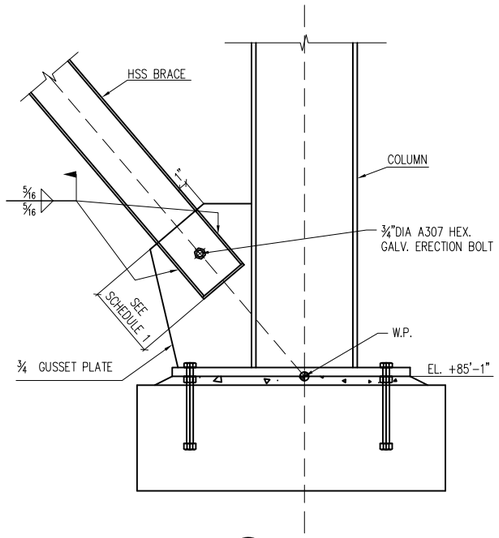
FOR APPROVAL

0 FOR APPROVAL	06-15-16	

ATLAS IRON WORKS
ST. LOUIS, MO.

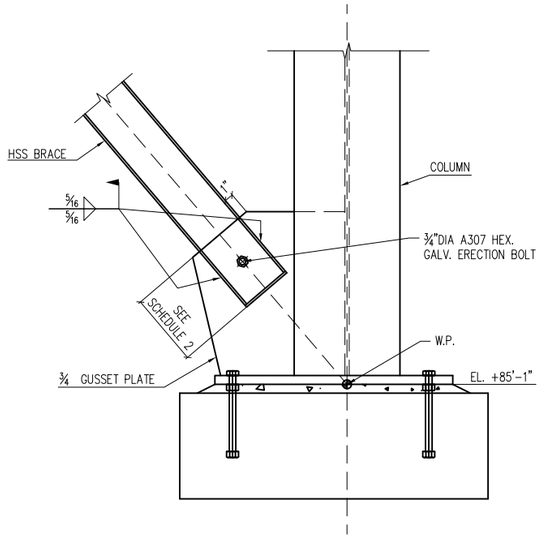
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/06/16 Ckd: LJ Date: 06/15/16
Job No. A16013 BAT: DWG#: E4D

SCHEDULE 1	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"
GRID A.5-B.3/2	12"



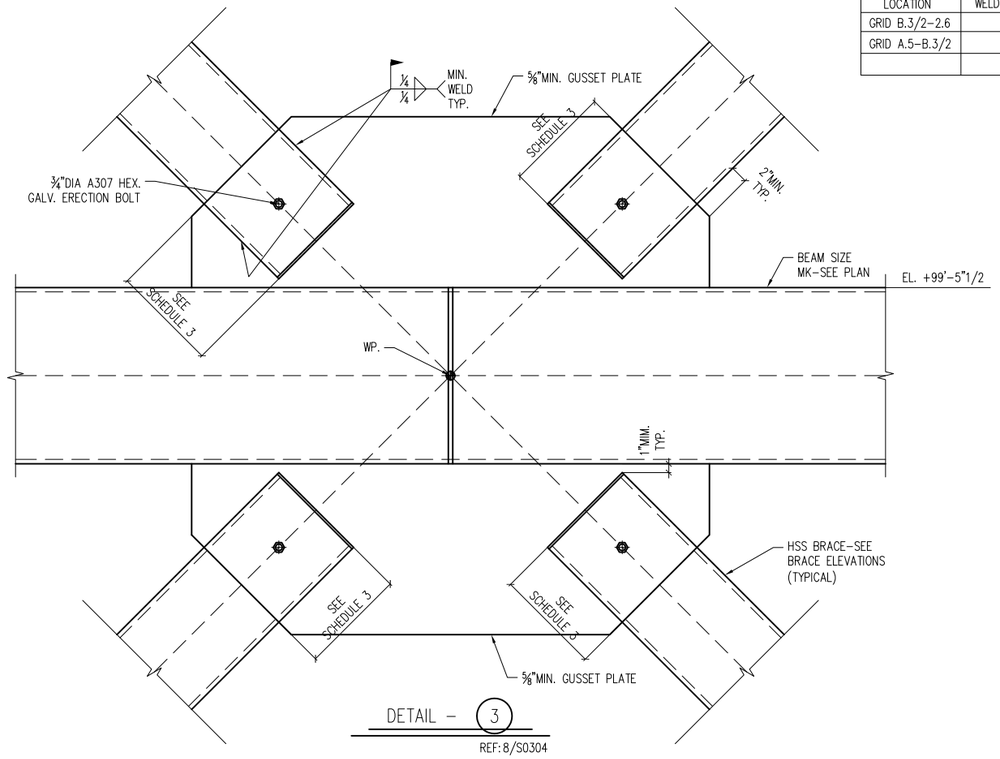
DETAIL - 1

SCHEDULE 2	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"



DETAIL - 2

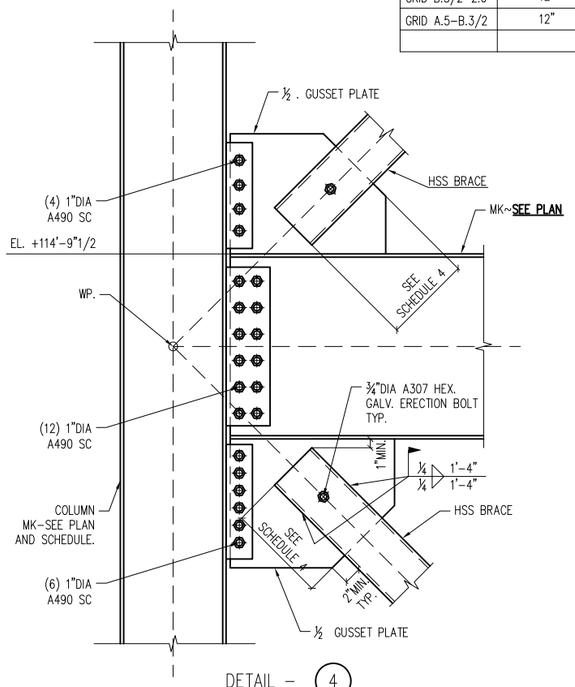
SCHEDULE 3	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"
GRID A.5-B.3/2	12"



DETAIL - 3

REF: 8/S0304

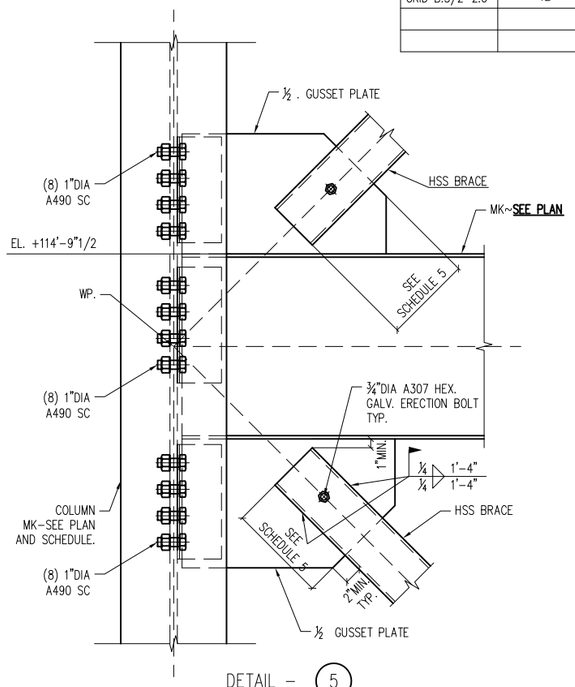
SCHEDULE 4	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"
GRID A.5-B.3/2	12"



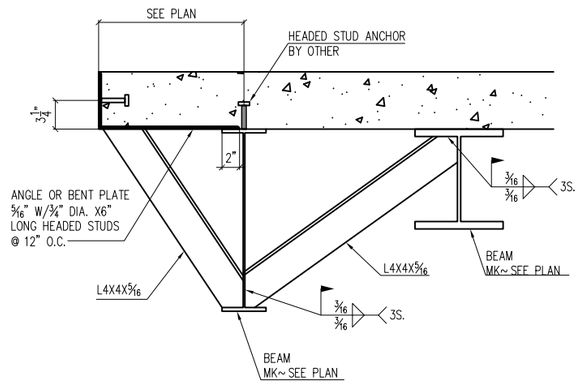
DETAIL - 4

REF: 4/S0304

SCHEDULE 5	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"



DETAIL - 5

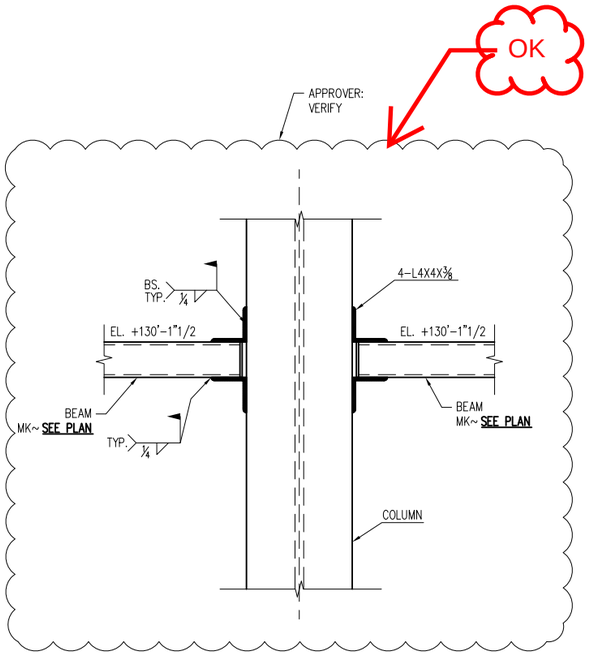


DETAIL - 6

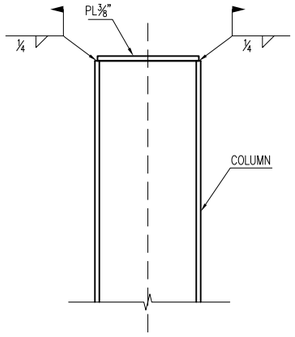
A	FOR APPROVAL	05-30-16

ATLAS IRON WORKS
ST. LOUIS, MO.

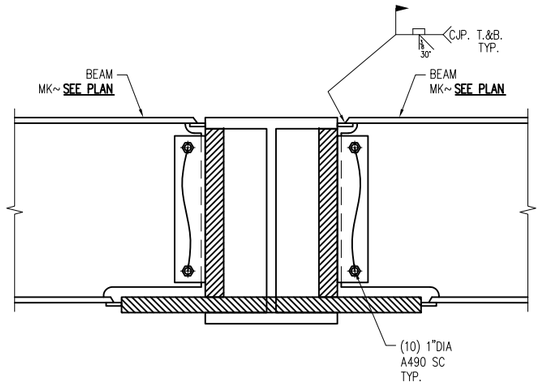
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 05/30/16
Job No. A16013 **BAT:** **DWG#:** E2F



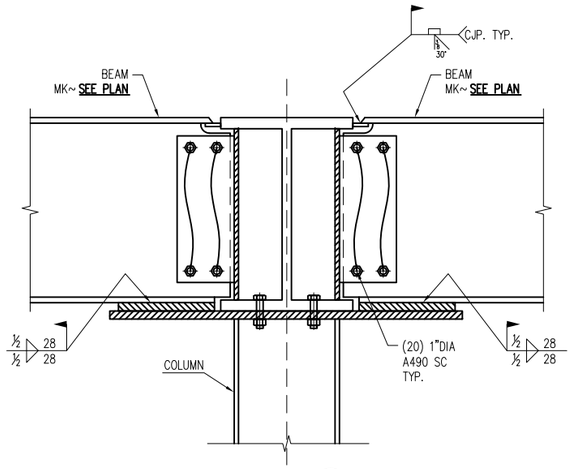
DETAIL – 1



DETAIL – 2



DETAIL – 3

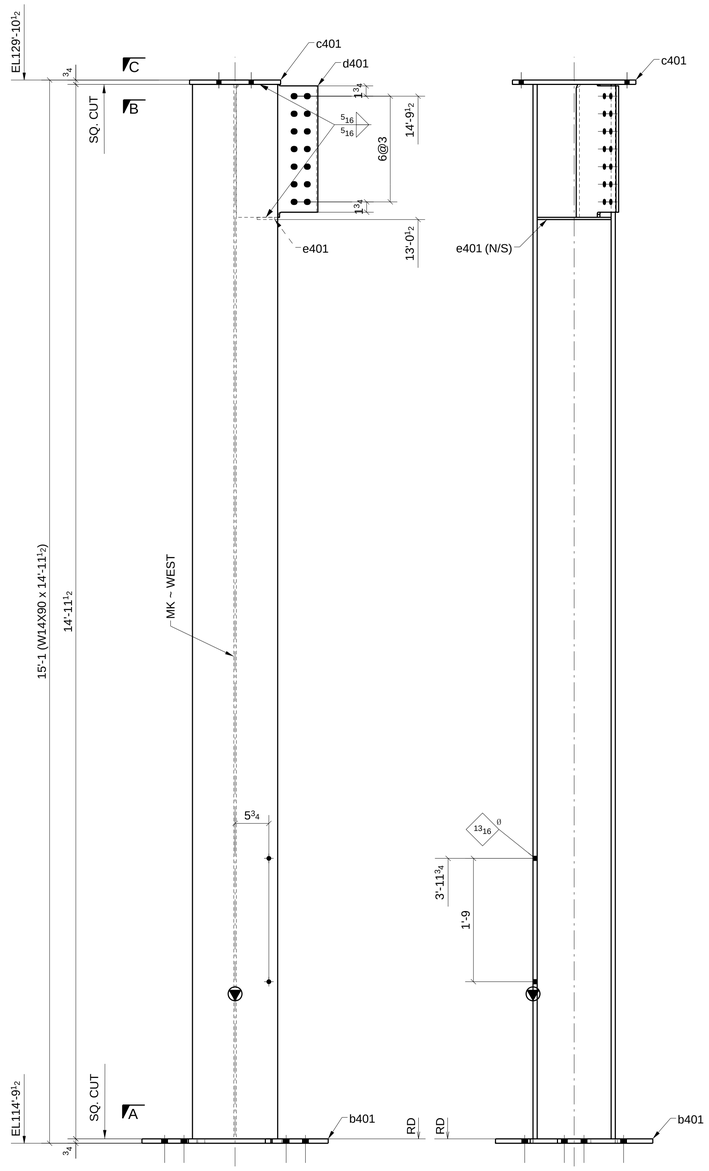


DETAIL – 4

A	FOR APPROVAL	05-30-16

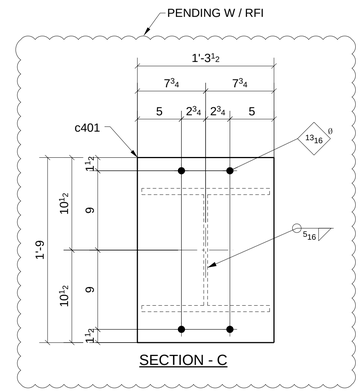
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 05/30/16
Job No. A16013 **BAT:** **DWG#:** E2G

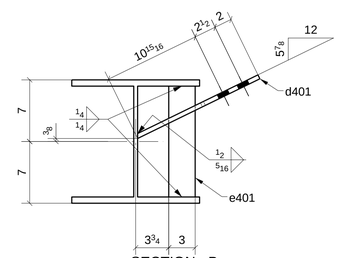


ONE - COLUMN ~ 401A

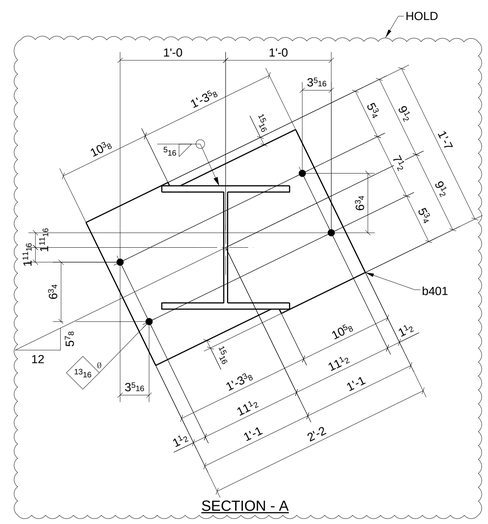
LOCATION: (REF: E4A)
ONE @ 1.6/4-A.5



SECTION - C



SECTION - B



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	401A	W14X90	14'-11 1/2"	A992	
1	b401	PL3/4"X19"	2'-2"	A36	
1	c401	PL3/4"X15 1/2"	1'-9"	A36	
1	d401	PL1/2"X15 7/16"	1'-10 5/8"	A36	
1	e401	PL3/8"X3"	1'-0 9/16"	A36	

Romac By: Checked By:

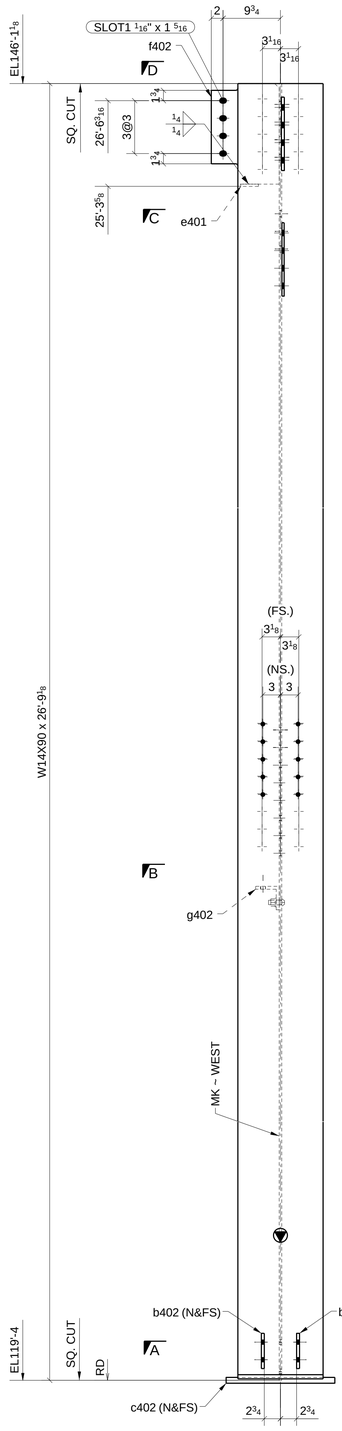
Beamline By: Checked By:

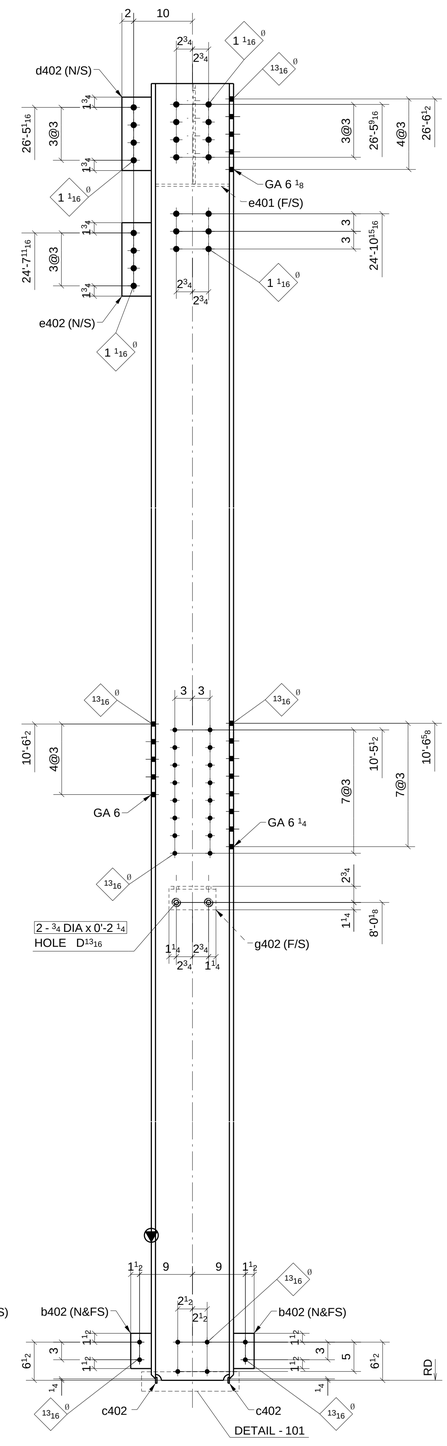
A	FOR APPROVAL	06/15/16

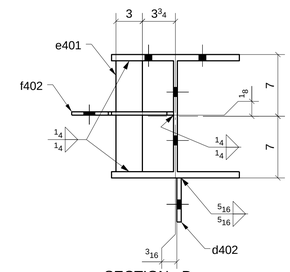
Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

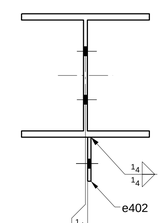
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 401



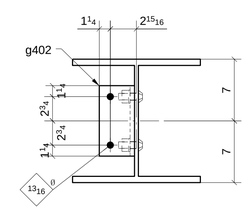




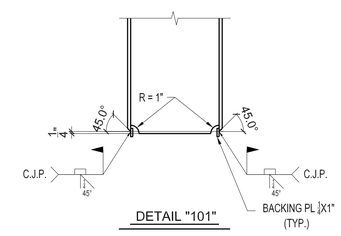
SECTION - D



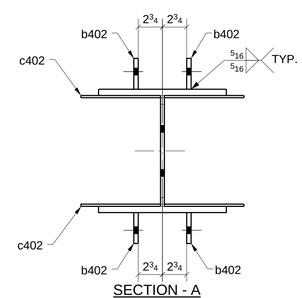
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

ONE - COLUMN ~ 402A

LOCATION: (REF: E4A)
ONE @ 2/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

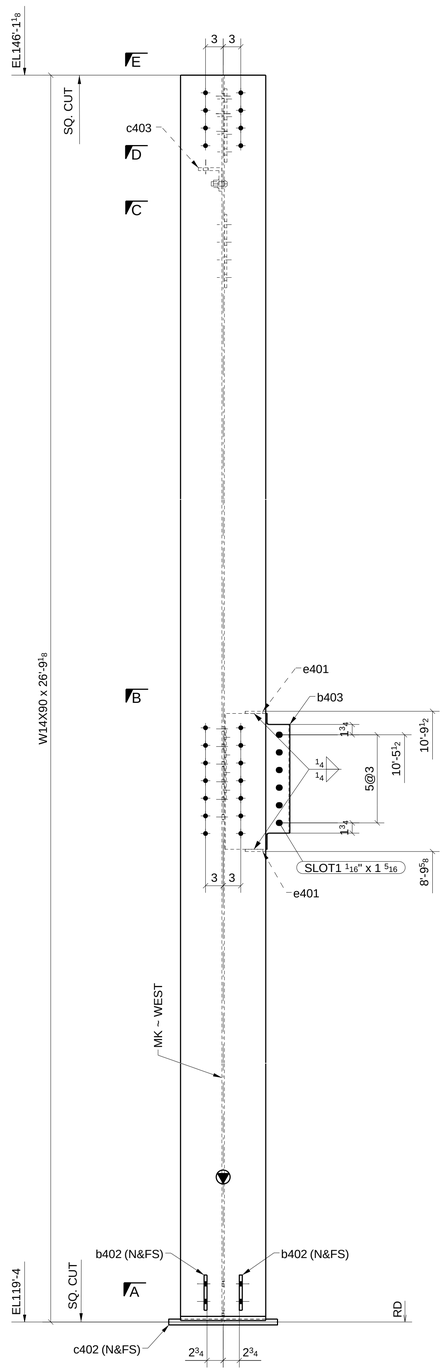
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	402A	W14X90	26'-9 1/8"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
2	c402	PL1/4"X1"	1'-6 1/2"	A36	
1	d402	PL1/2"X5"	1'-0 1/2"	A572-GR.50	
1	e401	PL3/8"X3"	1'-0 9/16"	A36	
1	e402	PL3/8"X5"	1'-0 1/2"	A572-GR.50	
1	f402	PL3/8"X11 9/16"	1'-5 1/8"	A36	
1	g402	L4X4X1/2	0'-8"	A36	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

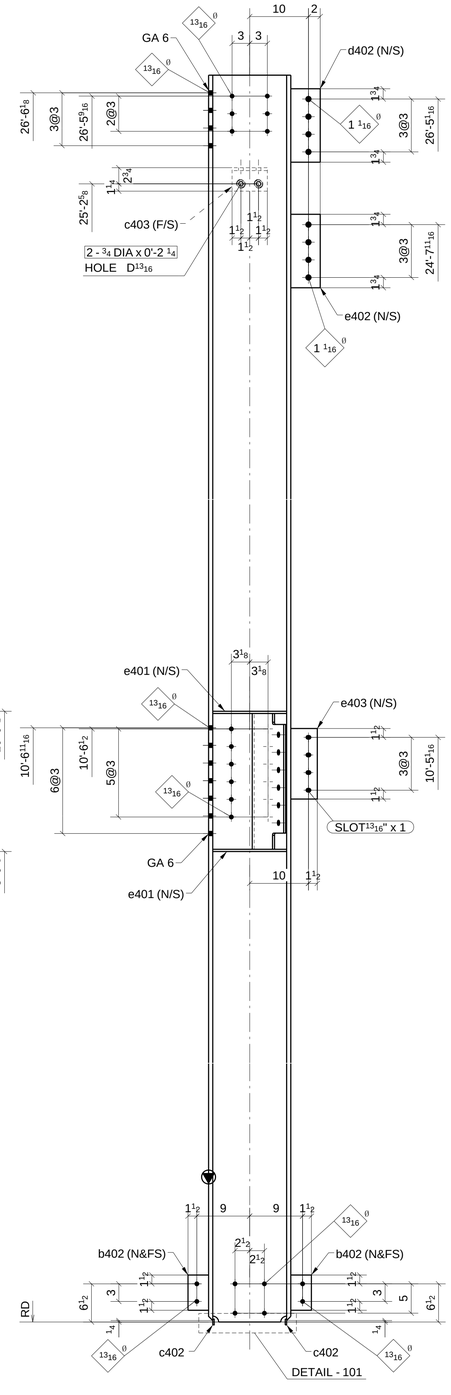
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

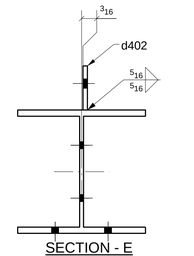
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/09/2016
Job No. A16013 BAT: DWG#: 402



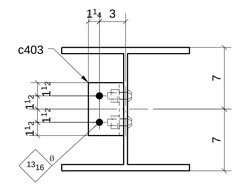


ONE - COLUMN ~ 403A

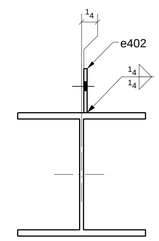
LOCATION: ONE @ 2/A.5 (REF: E4A)



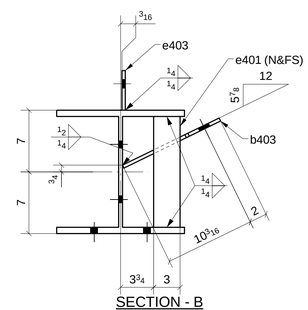
SECTION - E



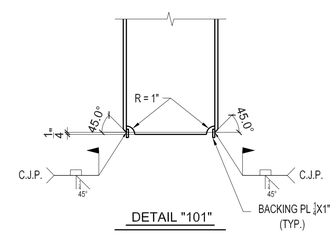
SECTION - D



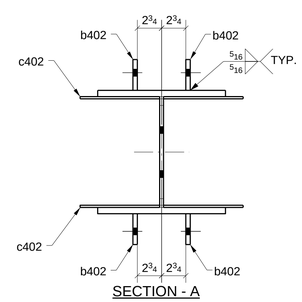
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	403A	W14X90	26'-9 1/8"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
1	b403	PL3/8"X12 3/16"	1'-11 1/8"	A36	
2	c402	PL1/4"X1"	1'-6 1/2"	A36	
1	c403	L4X4X1/2	0'-6"	A36	
1	d402	PL1/2"X5"	1'-0 1/2"	A572-GR.50	
2	e401	PL3/8"X3"	1'-0 9/16"	A36	
1	e402	PL3/8"X5"	1'-0 1/2"	A572-GR.50	
1	e403	PL3/8"X4 1/2"	1'-0"	A36	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

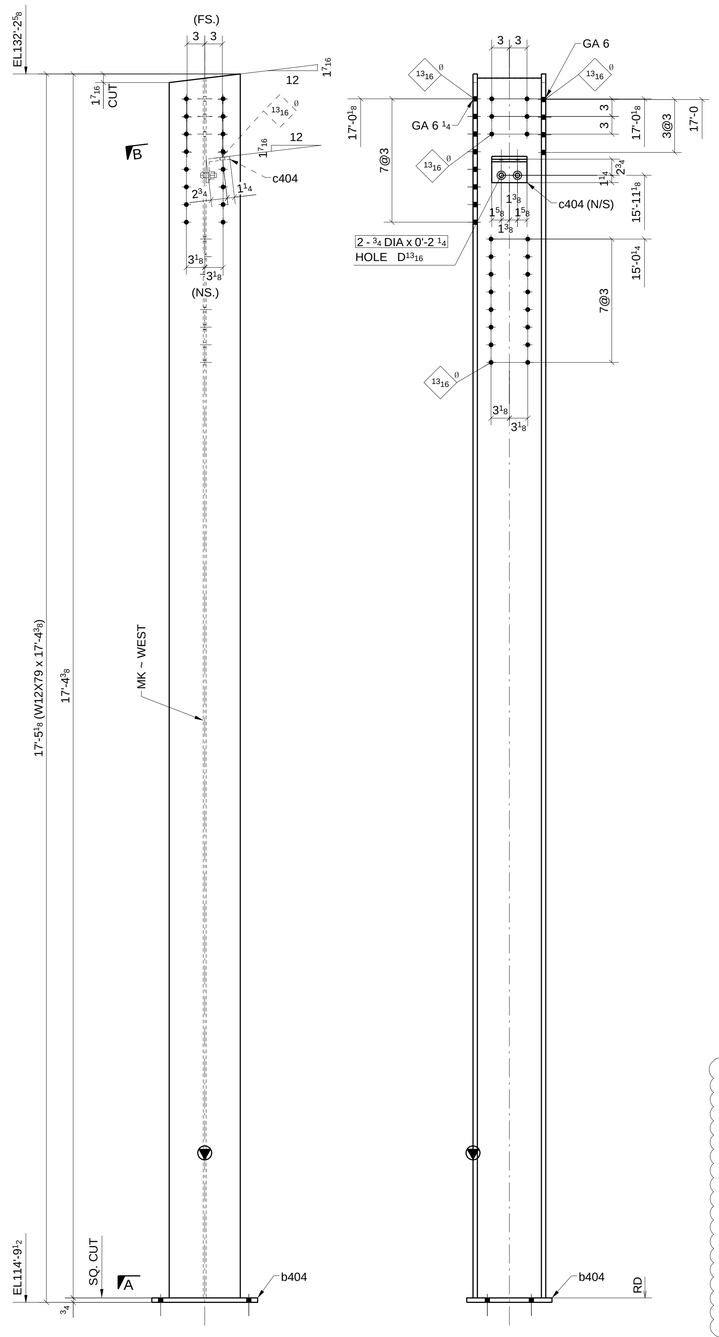
Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

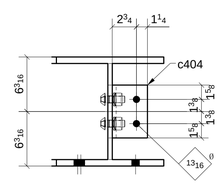
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 403



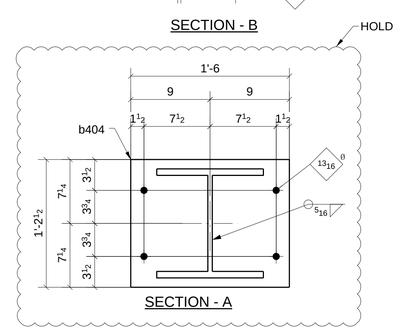
ONE - COLUMN ~ 404A

LOCATION: (REF: E4A)

ONE @ 1.6/A.5



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	404A	W12X79	17'-4 3/8"	A992	
1	b404	PL3/4"X14 1/2"	1'-6"	A36	
1	c404	BPL1/2"*8	0'-6"	A36	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

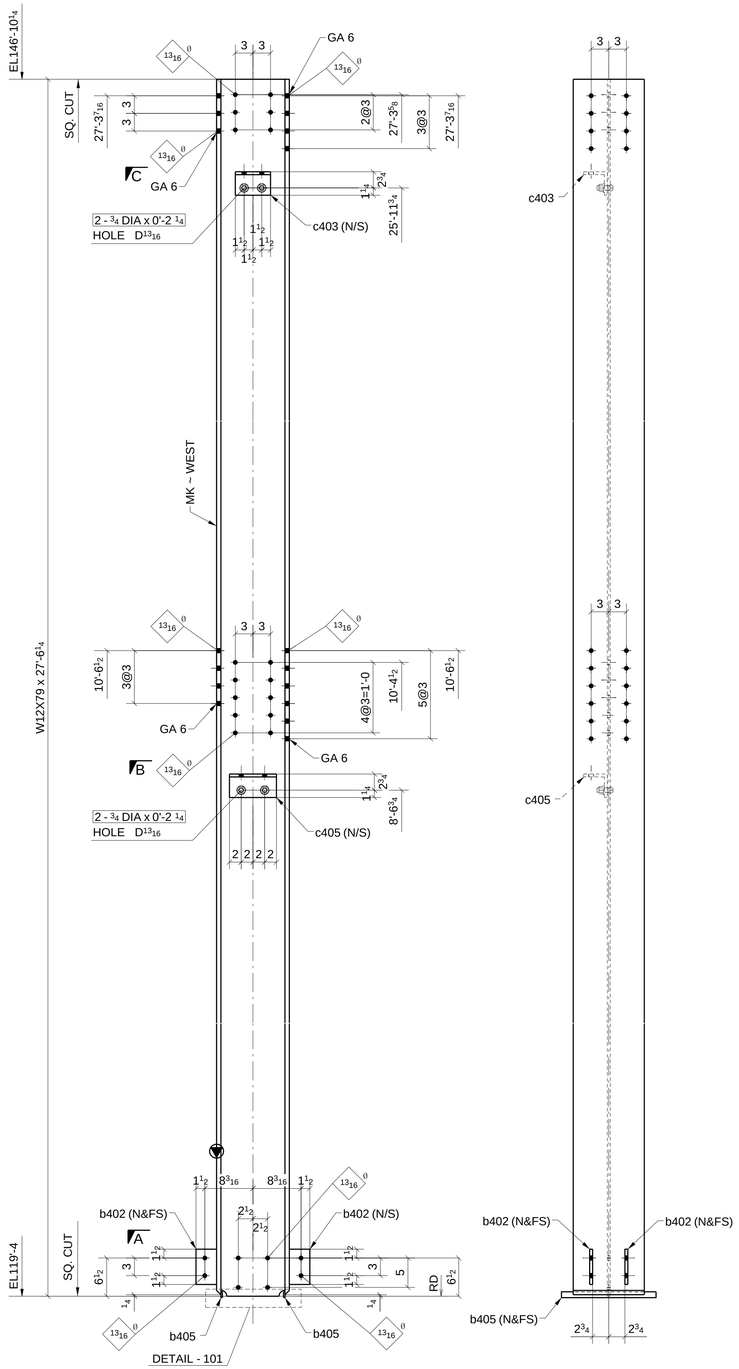
Romac By:		Checked By:	
Beamline By:		Checked By:	

A FOR APPROVAL 06/15/16

Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

ATLAS IRON WORKS
ST. LOUIS, MO.

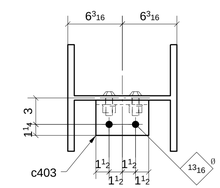
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	TLI	Date: 06/09/2016	Ckd: LJ	Date:	06/10/2016
Job No.	A16013	BAT:		DWG#:	404



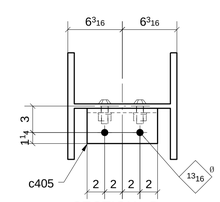
ONE - COLUMN ~ 405A

LOCATION:
ONE @ 3/B.3

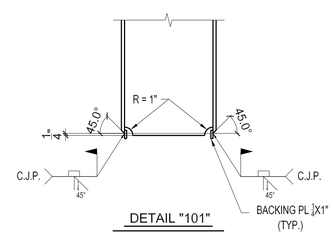
(REF: E4A)



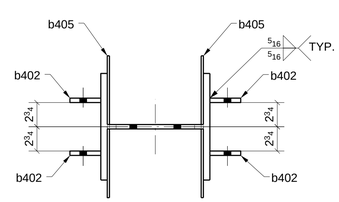
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	405A	W12X79	27'-6 1/4"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
2	b405	PL1/4"X1"	1'-4 1/8"	A36	
1	c403	L4X4X1/2	0'-6"	A36	
1	c405	L4X4X1/2	0'-8"	A36	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

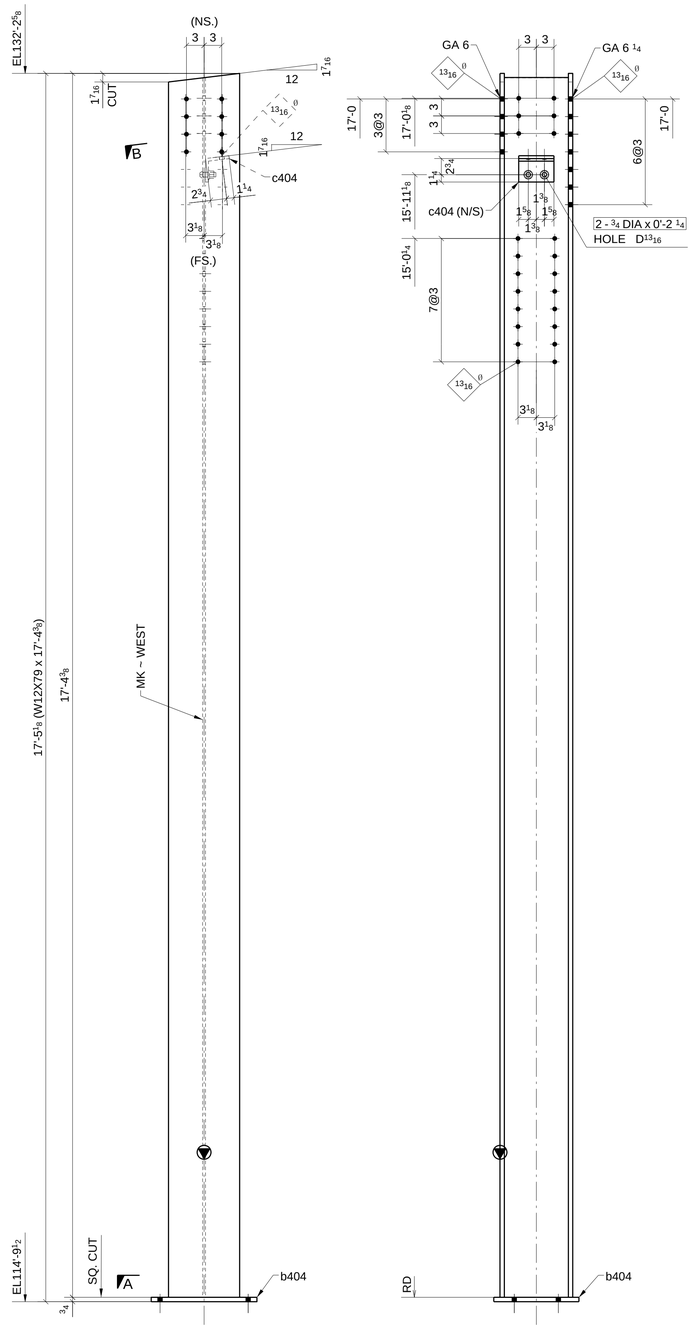
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

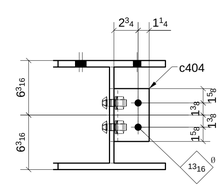
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	TLI	Date: 06/09/2016	Ckd: LJ	Date: 06/09/2016	
Job No.	A16013	BAT:		DWG#: 405	



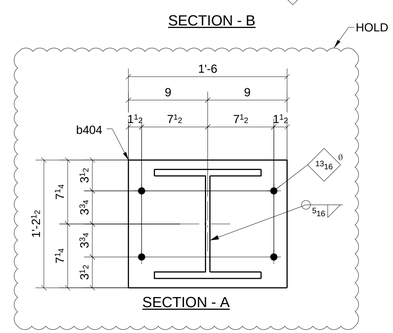
ONE - COLUMN ~ 406A

LOCATION: (REF: E4A)

ONE @ 1.6/B.3



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

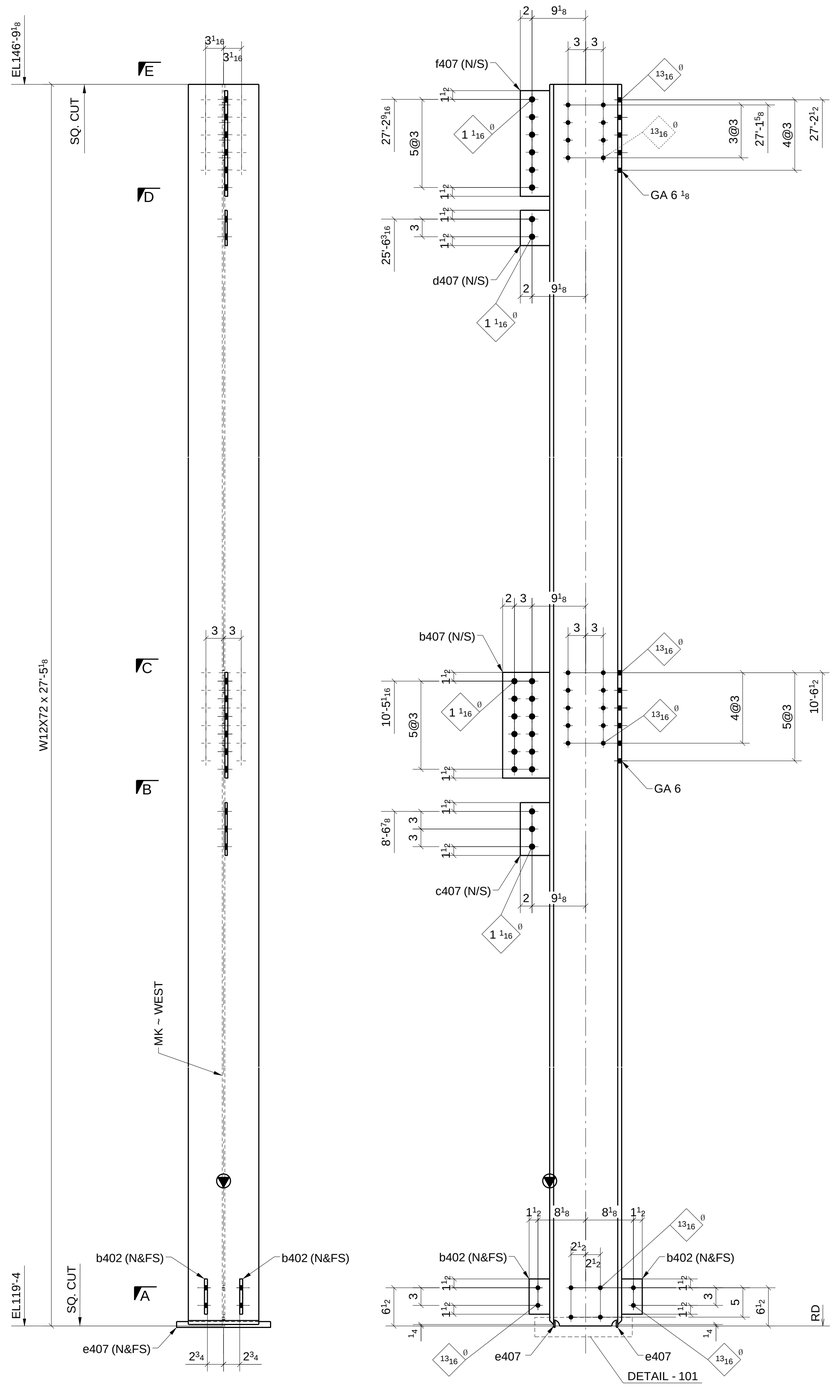
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	406A	W12X79	17'-4 3/8"	A992	
1	b404	PL3/4"X14 1/2"	1'-6"	A36	
1	c404	BPL1/2"*8	0'-6"	A36	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

Romac By:		Checked By:	
Beamline By:		Checked By:	

ATLAS IRON WORKS
ST. LOUIS, MO.

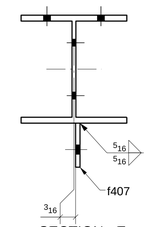
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: TLI	Date: 06/09/2016	Ckd: LJ	Date: 06/10/2016
Job No.	A16013	BAT:	DWG#: 406

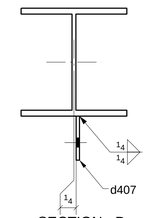


ONE - COLUMN ~ 407A

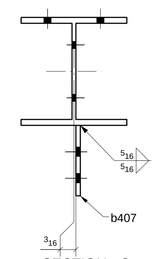
LOCATION: (REF: E4A)
ONE @ 5/C



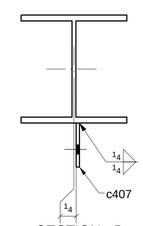
SECTION - E



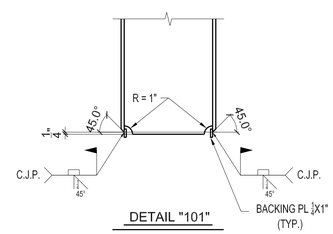
SECTION - D



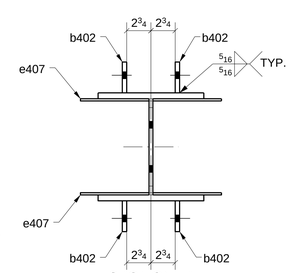
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	407A	W12X72	27'-5 1/8"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
1	b407	PL1/2"X8"	1'-6"	A572-GR.50	
1	c407	PL3/8"X5"	0'-9"	A572-GR.50	
1	d407	PL3/8"X5"	0'-6"	A572-GR.50	
2	e407	PL1/4"X1"	1'-4"	A36	
1	f407	PL1/2"X5"	1'-6"	A572-GR.50	

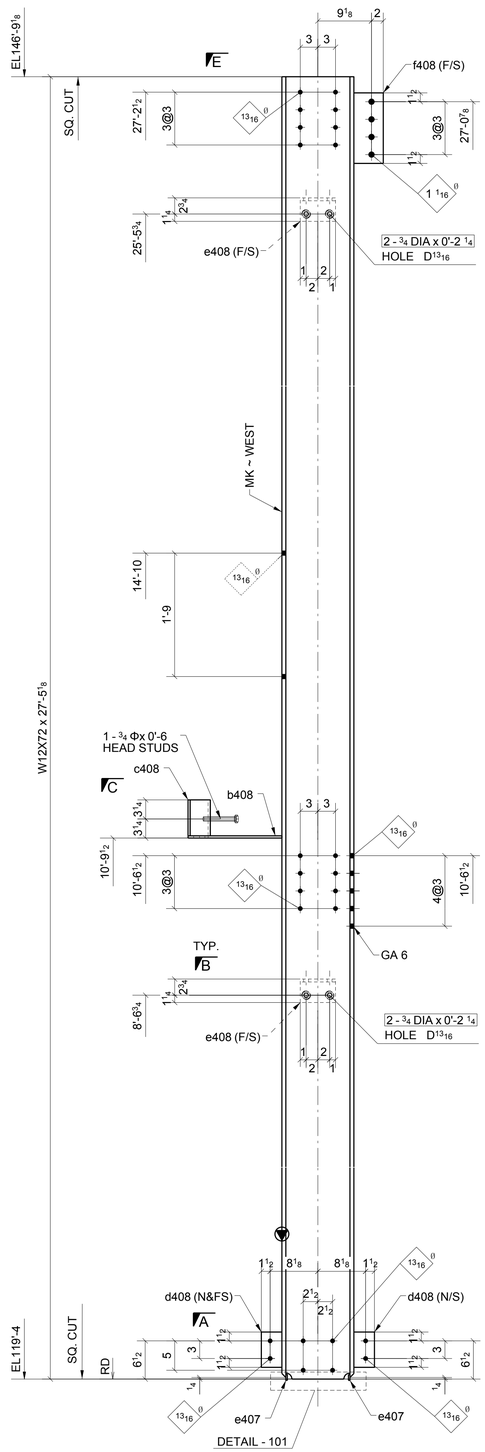
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

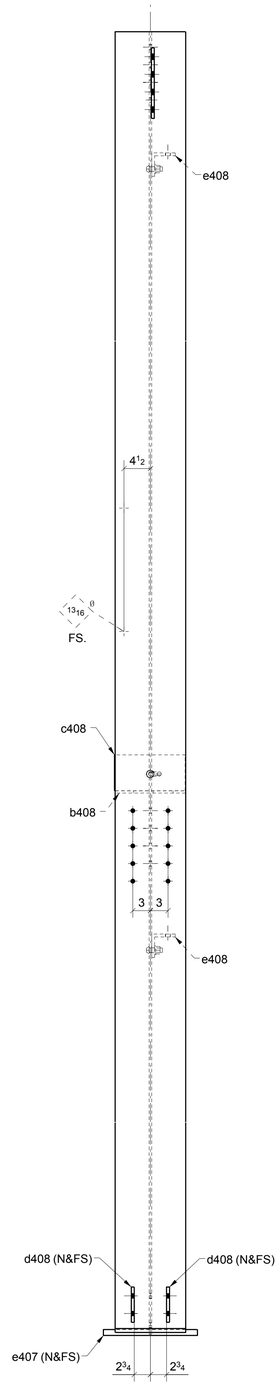
Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

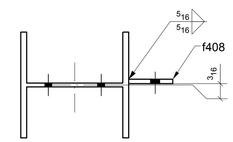
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	TLI	Date: 06/09/2016	Ckd: LJ	Date:	06/14/2016
Job No.	A16013	BAT:		DWG#:	407



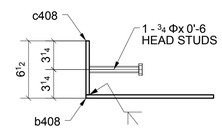


ONE - COLUMN ~ 408A

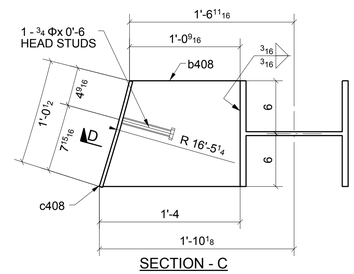
LOCATION: ONE @ 5/D (REF: E4A)



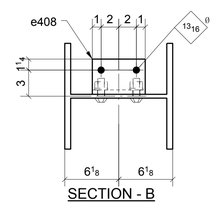
SECTION - E



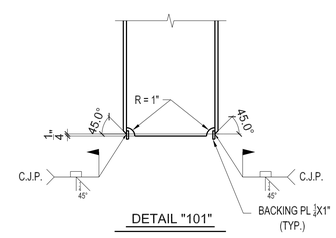
SECTION - D



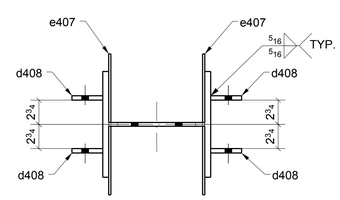
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	408A	W12X72	27'-5 1/8"	A992	
1	b408	PL3/8"X12"	1'-4"	A36	
1	c408	BPL3/8"X6 1/8"	1'-0 1/2"	A36	
4	d408	PL1/2"X3 1/2"	0'-6"	A36	
2	e407	PL1/4"X1"	1'-4"	A36	
2	e408	L4X4X1/2	0'-6"	A36	
1	f408	PL1/2"X5"	1'-0"	A572-GR.50	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" STUD	0'-6"		

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

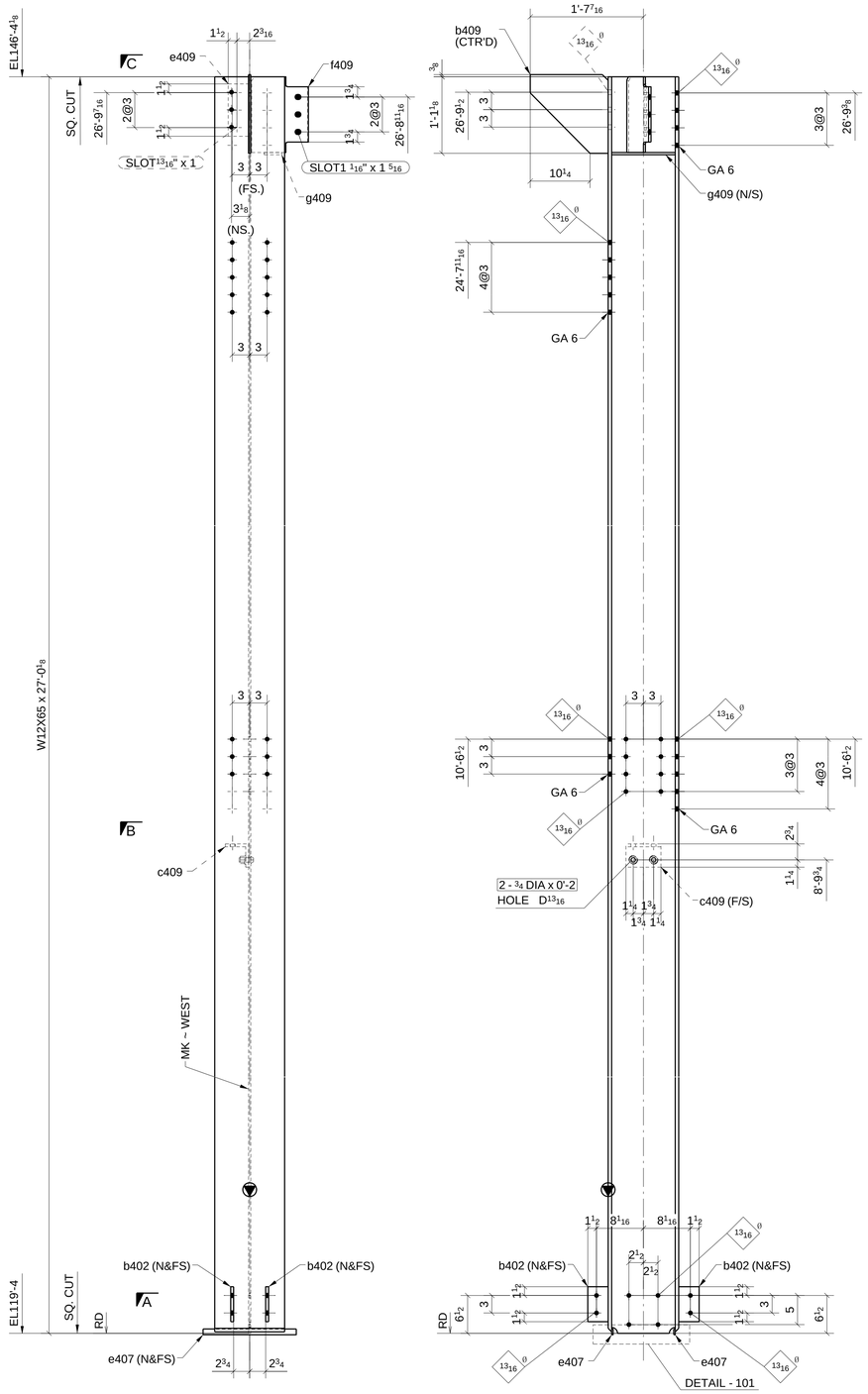
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

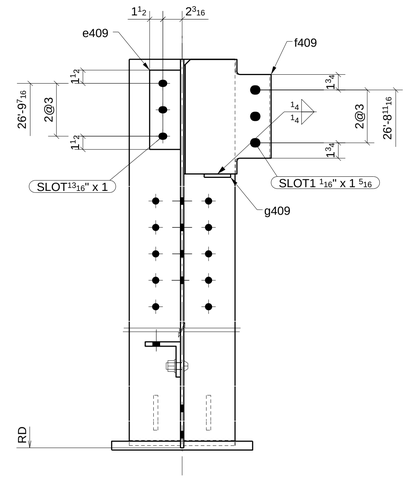
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/09/2016

Job No. A16013 BAT: DWG#: 408

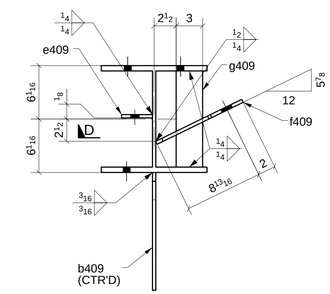


ONE - COLUMN ~ 409A

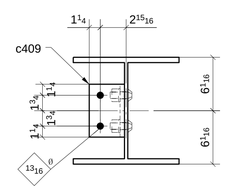
LOCATION: ONE @ 4/B.3 (REF: E4A)



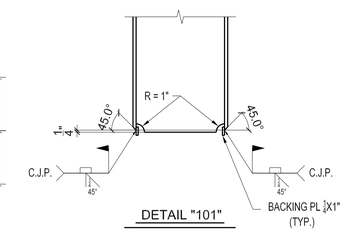
SECTION - D



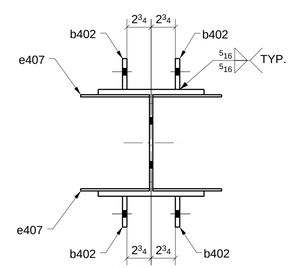
SECTION - C



SECTION - B



DETAIL "101"



SECTION - A

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	409A	W12X65	27'-0 1/8"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
1	b409	PL3/8"X13 3/8"	1'-1 1/2"	A36	
1	c409	L4X4X1/2	0'-6"	A36	
2	e407	PL1/4"X1"	1'-4"	A36	
1	e409	PL3/8"X3 1/2"	0'-9"	A36	
1	f409	PL3/8"X10 13/16"	1'-1"	A36	
1	g409	PL3/8"X3"	0'-10 15/16	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

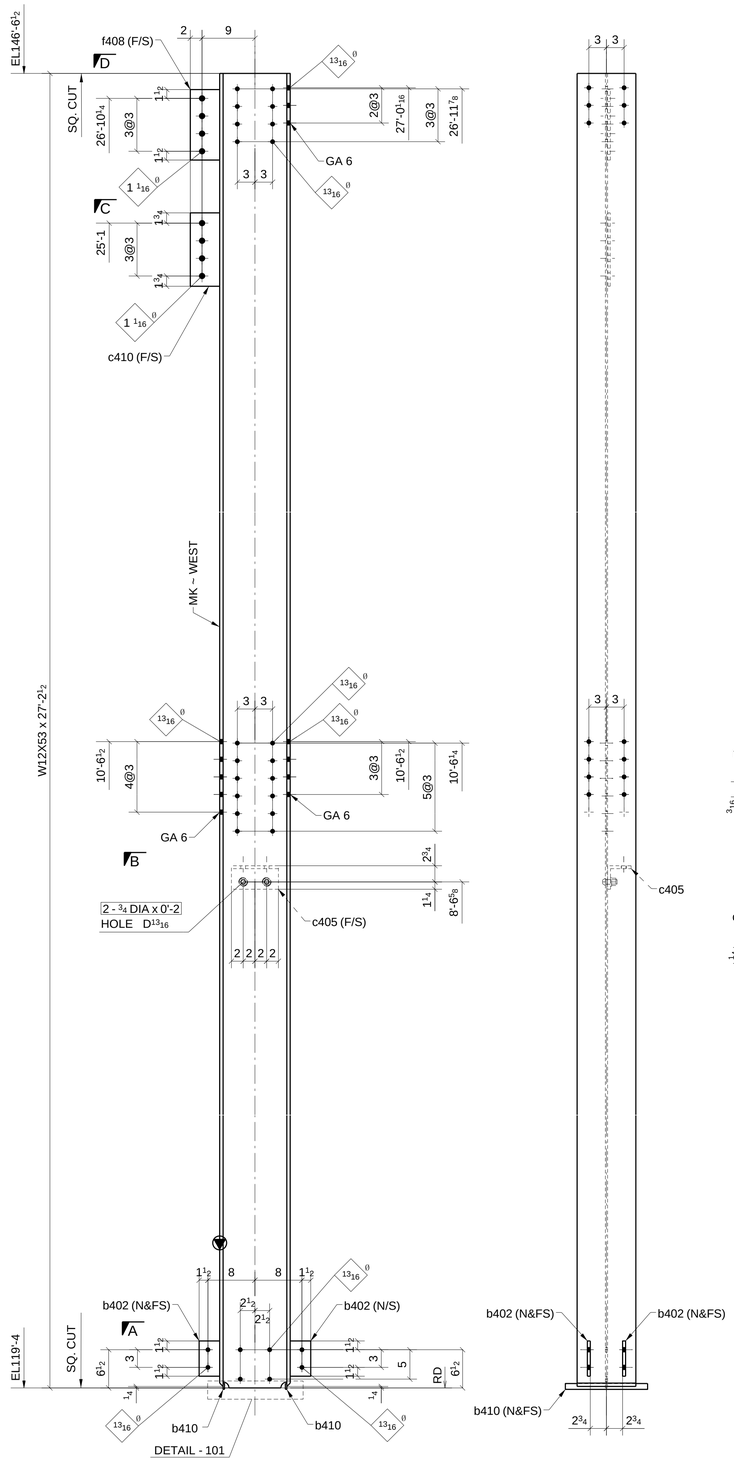
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

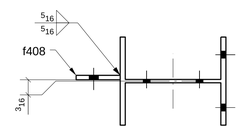
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/10/2016

Job No. A16013 BAT: DWG#: 409

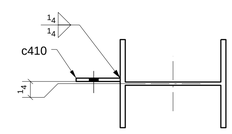


ONE - COLUMN ~ 410A

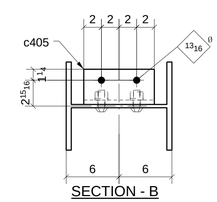
LOCATION: (REF: E4A)
ONE @ 2.6/B.3



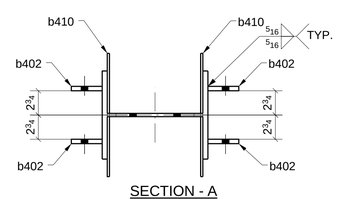
SECTION - D



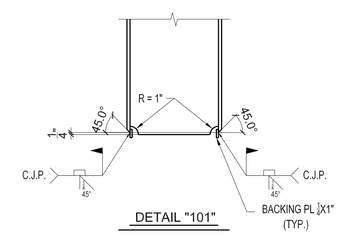
SECTION - C



SECTION - B



SECTION - A



DETAIL "101"

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

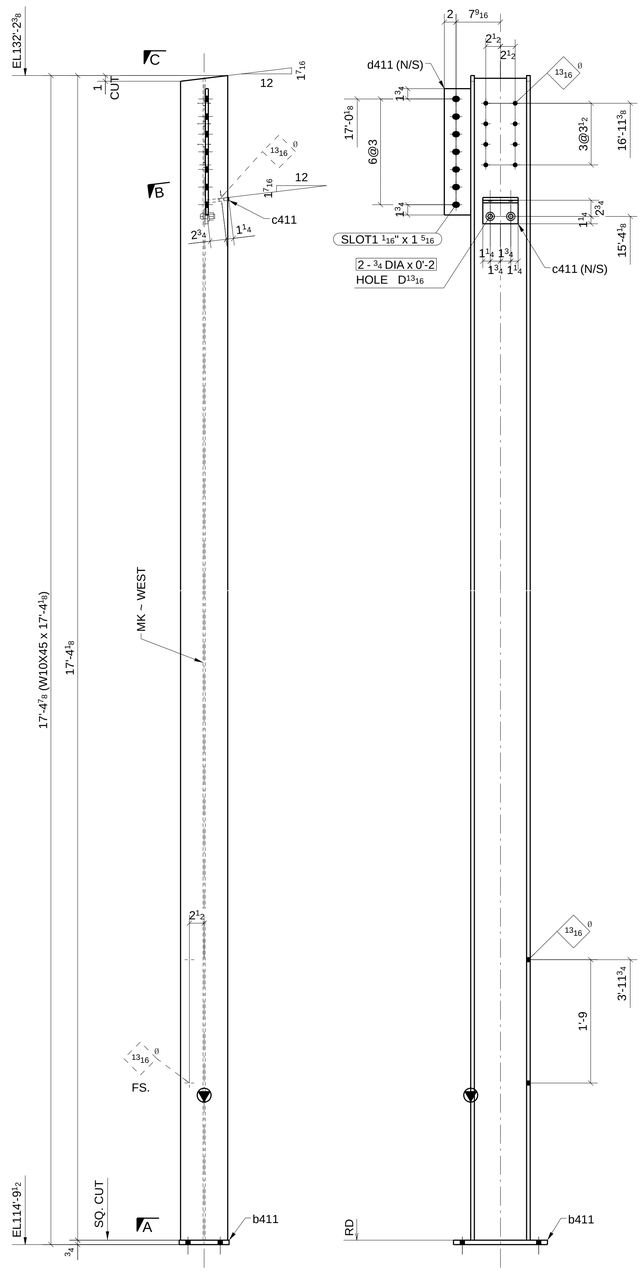
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	410A	W12X53	27'-2 1/2"	A992	
4	b402	PL1/2"X3 1/2"	0'-6"	A36	
2	b410	PL1/4"X1"	1'-2"	A36	
1	c405	L4X4X1/2	0'-8"	A36	
1	c410	PL3/8"X5"	1'-0 1/2"	A572-GR.50	
1	f408	PL1/2"X5"	1'-0"	A572-GR.50	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	

Romac By:		Checked By:	
Beamline By:		Checked By:	

ATLAS IRON WORKS
ST. LOUIS, MO.

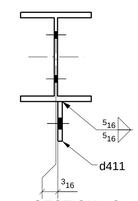
A	FOR APPROVAL				06/15/16
Sequence:	4	Ref. E-Plans:	--		
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.		
Holes:	13/16"DIA.	Bolts:	NOTED		
Cleaning:	NONE				
Paint:	NO				
DFT:		COLOR:			

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	TLI	Date: 06/09/2016	Ckd: LJ	Date: 06/09/2016	
Job No.	A16013	BAT:		DWG#: 410	

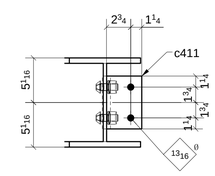


ONE - COLUMN ~ 411A

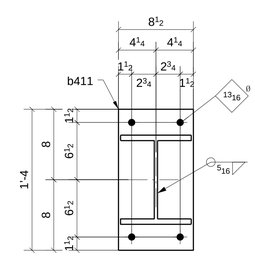
LOCATION: ONE @ 1.6/C.3 (REF: E4A)



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	411A	W10X45	17'-4 1/8"	A992	
1	b411	PL3/4"X8 1/2"	1'-4"	A36	
1	c411	BPL1/2"*8	0'-6"	A36	
1	d411	PL1/2"X4 1/2"	1'-9 1/2"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	

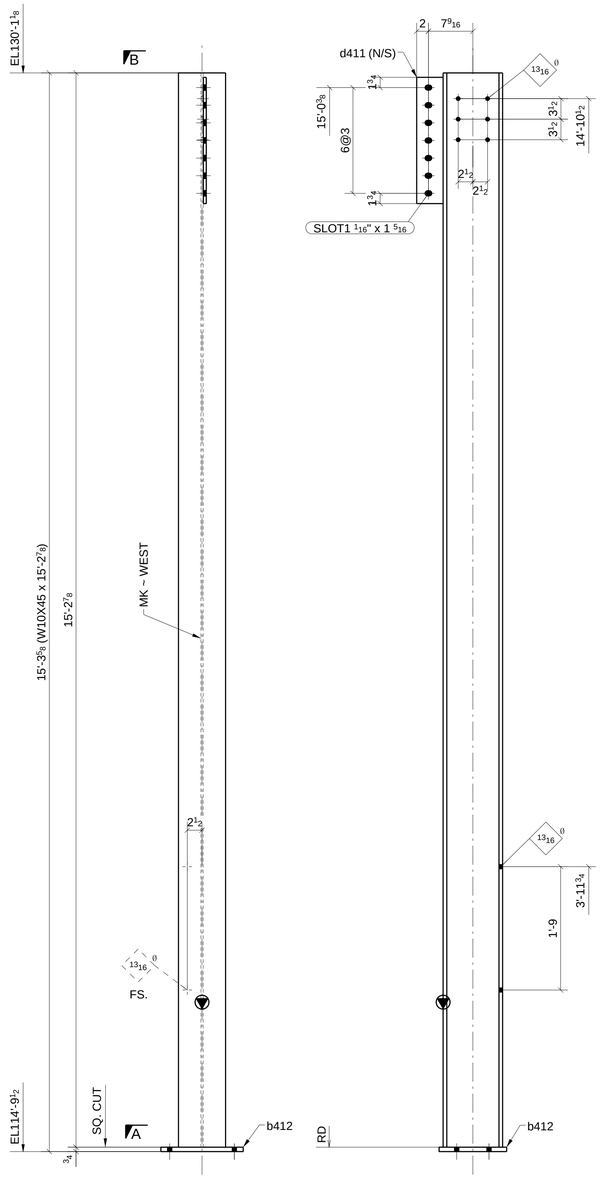
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

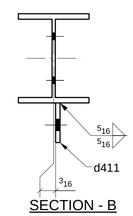
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 411



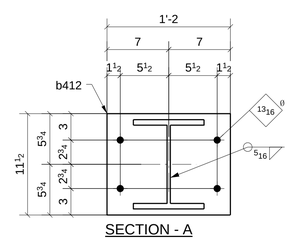
ONE - COLUMN ~ 412A

LOCATION:
ONE @ 2.6/C.3

(REF: E4A)



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	412A	W10X45	15'-2 7/8"	A992	
1	b412	PL3/4"X11 1/2"	1'-2"	A36	
1	d411	PL1/2"X4 1/2"	1'-9 1/2"	A36	

FOR APPROVAL

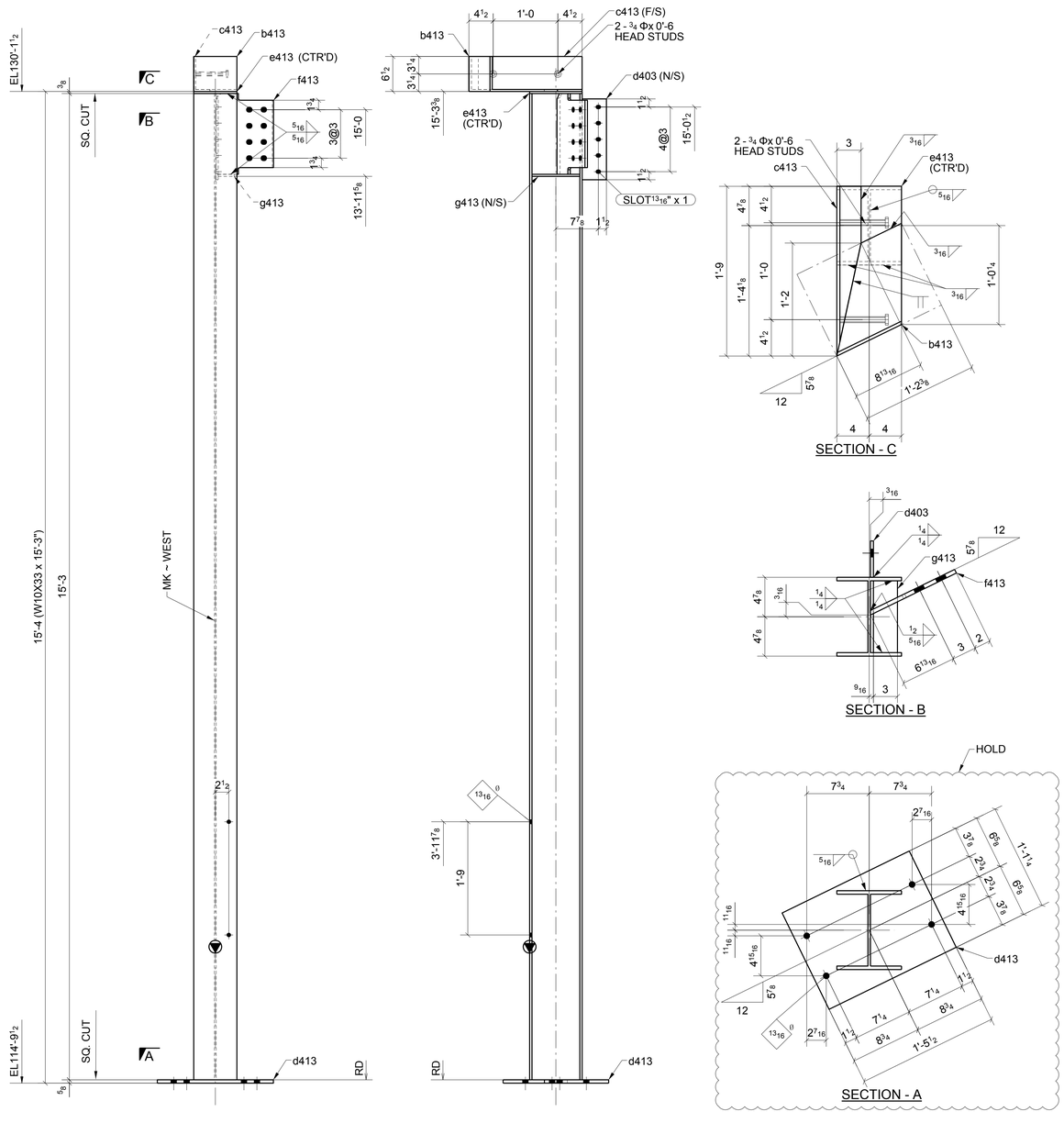
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: TLI	Date: 06/09/2016	Ckd: LJ	Date: 06/09/2016		
Job No. A16013	BAT:	DWG#: 412			



ONE - COLUMN ~ 413A

LOCATION: (REF: E4A)
ONE @ 2.6/4-A.5

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

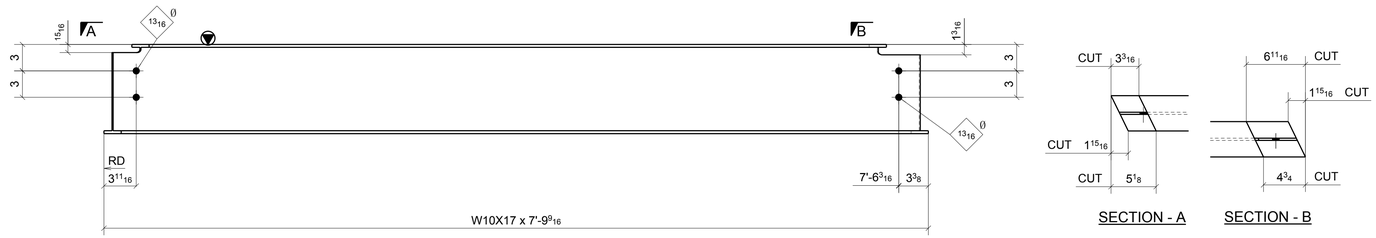
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	413A	W10X33	15'-3"	A992	
1	b413	BPL3/8""17"3/4	1'-2 3/8"	A36	
1	c413	BPL3/8"X9 1/2"	1'-9"	A36	
1	d403	PL3/8"X4 1/2"	1'-3"	A36	
1	d413	PL5/8"X13 1/4"	1'-5 1/2"	A36	
1	e413	PL3/8"X8"	0'-9 3/4"	A36	
1	f413	PL1/2"X11 13/16"	1'-3"	A36	
1	g413	PL3/8"X3"	0'-8 7/8"	A36	
2		3/4" STUD	0'-6"		

Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

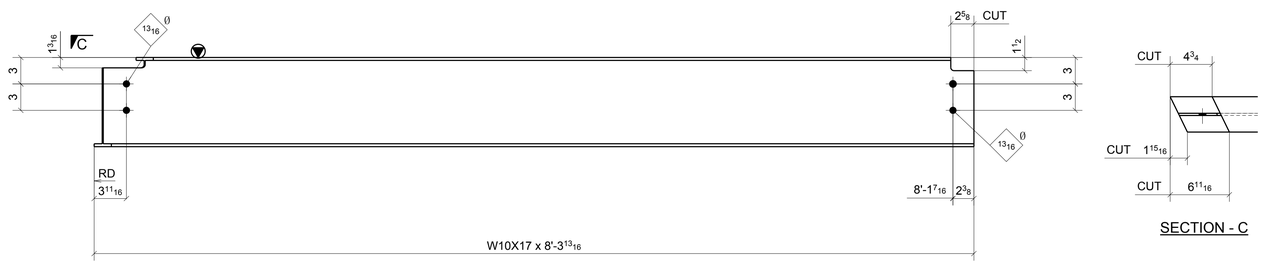
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 413



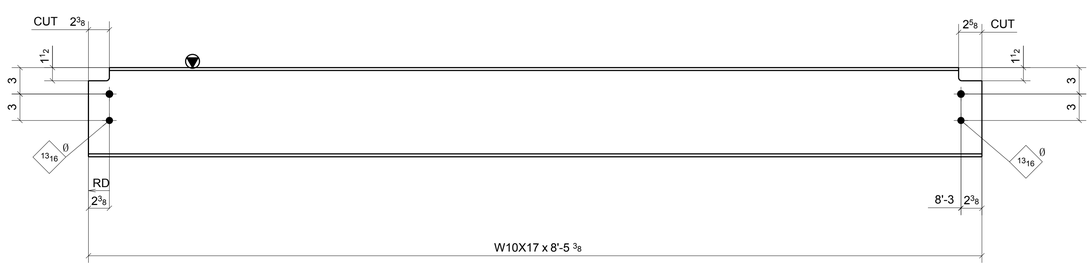
2 - BEAMS ~ 414A

LOCATION: (REF: E4A)
ONE @ 2-2.6/4-B.3
ONE @ 2-2.6/A.5-B.3



ONE - BEAM ~ 414B

LOCATION: (REF: E4A)
ONE @ 2.6-3/A.5-B.3



ONE - BEAM ~ 414C

LOCATION: (REF: E4A)
ONE @ 4>/A.5-B.3

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	414A	W10X17	7'-9 9/16"	A992	
1	414B	W10X17	8'-3 13/16"	A992	
1	414C	W10X17	8'-5 3/8"	A992	

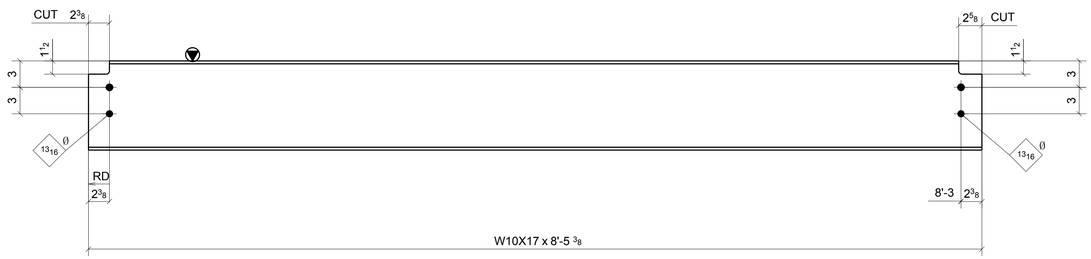
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/15/16

Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

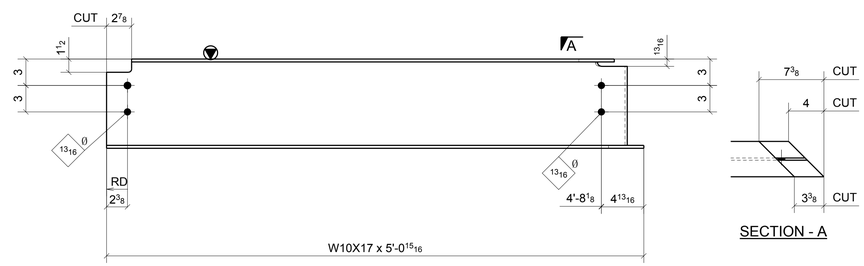
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/09/2016
Job No. A16013 BAT: DWG#: 414



ONE - BEAM ~ 415A

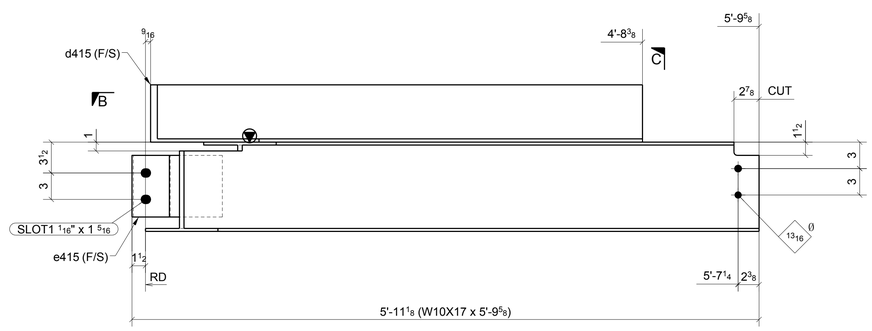
LOCATION: (REF: E4A)
ONE @ 4>/A.5-B.3



SECTION - A

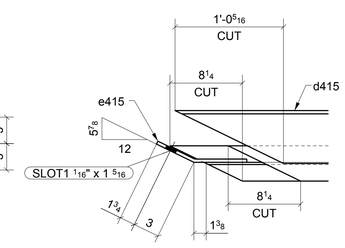
ONE - BEAM ~ 415B

LOCATION: (REF: E4A)
ONE @ <5/C.3-D

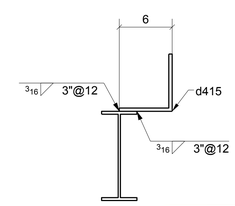


ONE - BEAM ~ 415C

LOCATION: (REF: E4A)
ONE @ 2-2.6/4-A.5



SECTION - B



SECTION - C

FOR APPROVAL

MATERIAL LIST

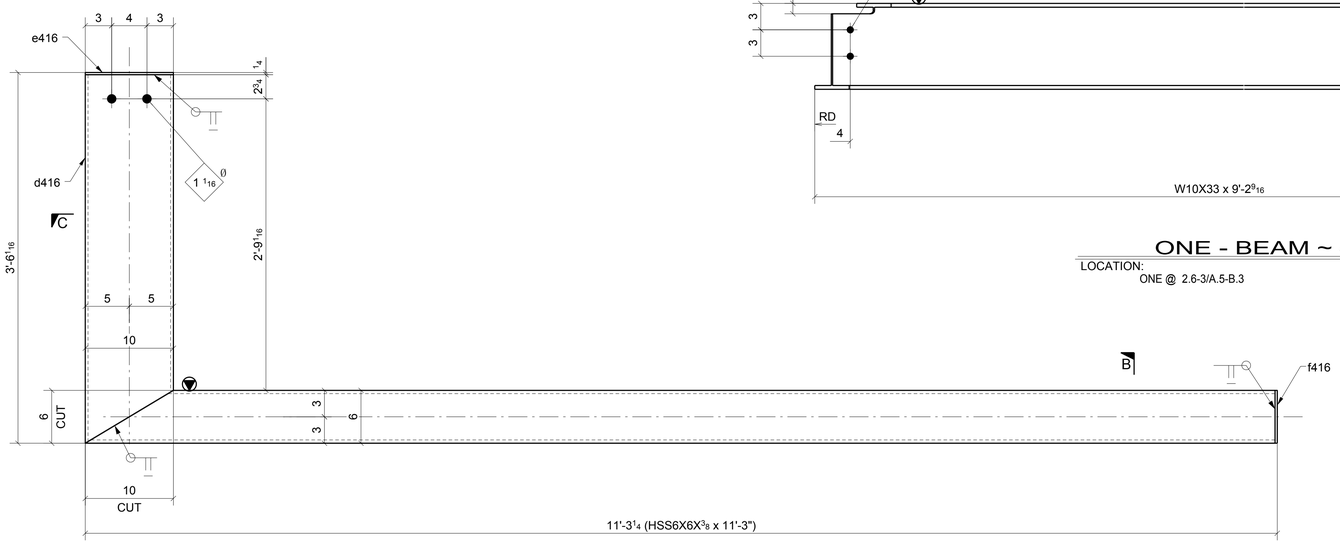
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	415A	W10X17	8'-5 3/8"	A992	
1	415B	W10X17	5'-0 15/16"	A992	
1	415C	W10X17	5'-9 5/8"	A992	
1	d415	BPL3/8"X12 1/2"	4'-7 13/16"	A36	
1	e415	BPL3/8"X7"	0'-10 3/4"	A36	

Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

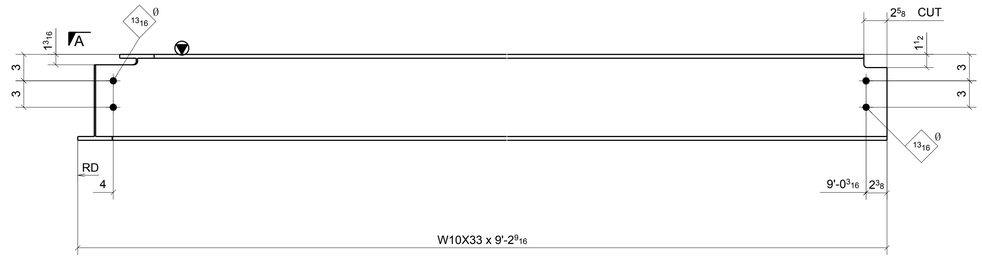
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/13/2016
Job No. A16013 BAT: DWG#: 415



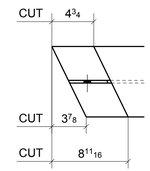
ONE - BEAM ~ 416C

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/4-A.5

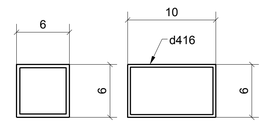


ONE - BEAM ~ 416A

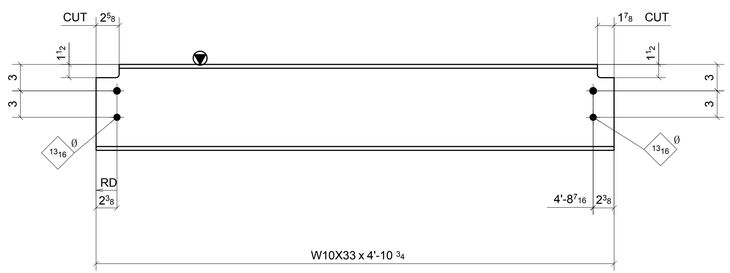
LOCATION: (REF: E4A)
ONE @ 2.6-3/A.5-B.3



SECTION - A

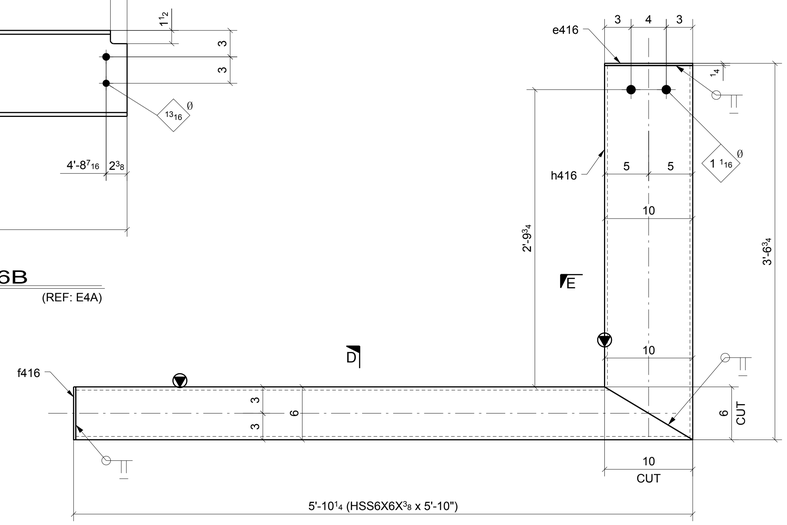


SECTION - B SECTION - C



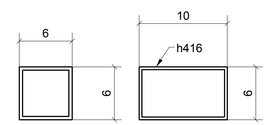
ONE - BEAM ~ 416B

LOCATION: (REF: E4A)
ONE @ 2.6-3/B.3-C



ONE - BEAM ~ 416D

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/C.2-C.3



SECTION - D SECTION - E

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	416A	W10X33	9'-2 9/16"	A992	
1	416B	W10X33	4'-10 3/4"	A992	
1	416C	HSS6X6X3/8	11'-3"	A500-GR.B-	
1	d416	HSS10X6X5/16	3'-5 13/16"	A500-GR.B-	
1	e416	PL1/4"X6"	0'-10"	A36	
1	f416	PL1/4"X6"	0'-6"	A36	
1	416D	HSS6X6X3/8	5'-10"	A500-GR.B-	
1	e416	PL1/4"X6"	0'-10"	A36	
1	f416	PL1/4"X6"	0'-6"	A36	
1	h416	HSS10X6X5/16	3'-6 1/2"	A500-GR.B-	

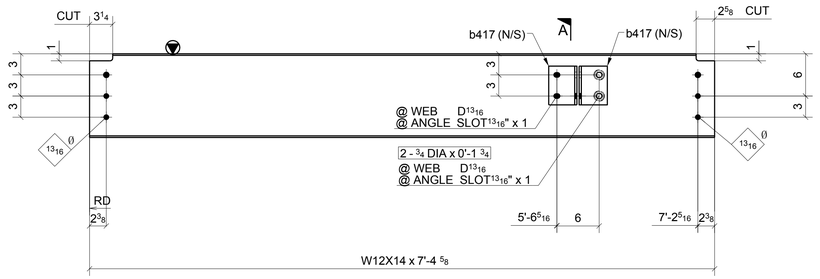
Romac By: Checked By:
Beamline By: Checked By:

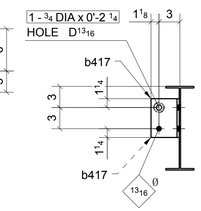
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/15/2016
Job No. A16013 BAT: DWG#: 416

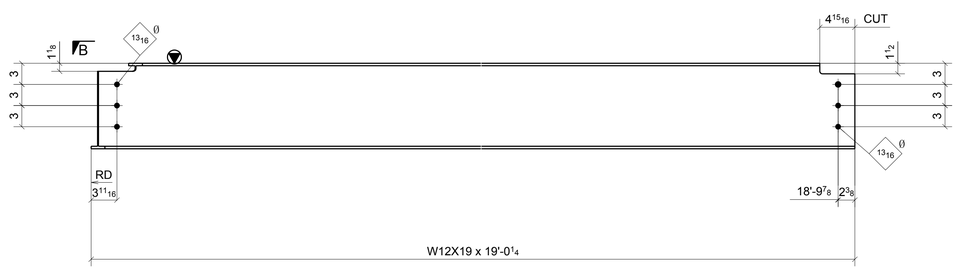


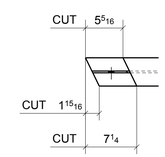


SECTION - A

ONE - BEAM ~ 417A

LOCATION: (REF: E4A)
ONE @ 2.6-3/B.3-C

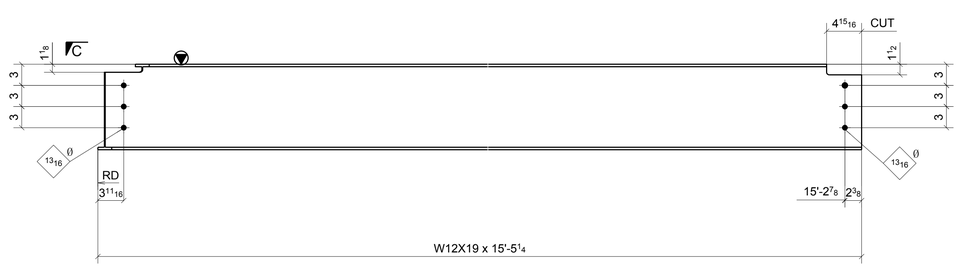


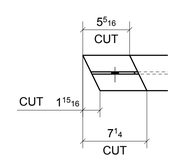


SECTION - B

ONE - BEAM ~ 417B

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/4-A.5





SECTION - C

ONE - BEAM ~ 417C

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

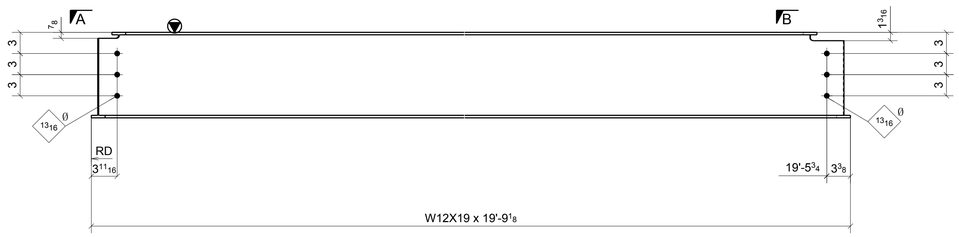
MATERIAL LIST

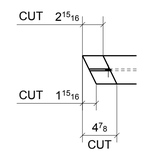
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	417A	W12X14	7'-4 5/8"	A992	
2	b417	L4X4X5/16	0'-5 1/2"	A36	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N TC	
1		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
1	417B	W12X19	19'-0 1/4"	A992	
1	417C	W12X19	15'-5 1/4"	A992	

Romac By: Checked By:
Beamline By: Checked By:

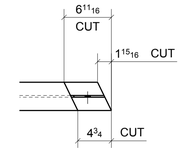
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 417





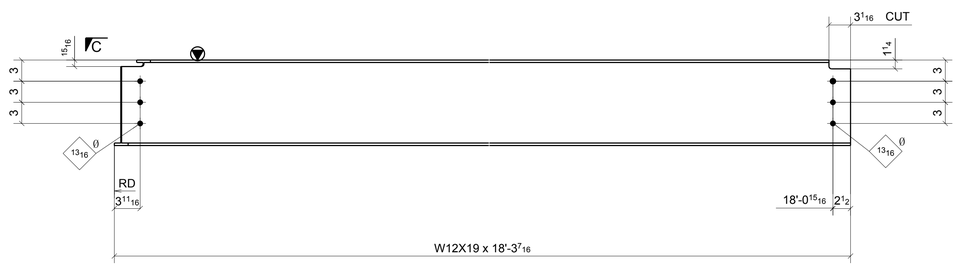
SECTION - A

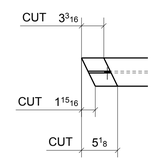


SECTION - B

ONE - BEAM ~ 418A

LOCATION: (REF: E4A)
ONE @ 2.6-3/4-B.3

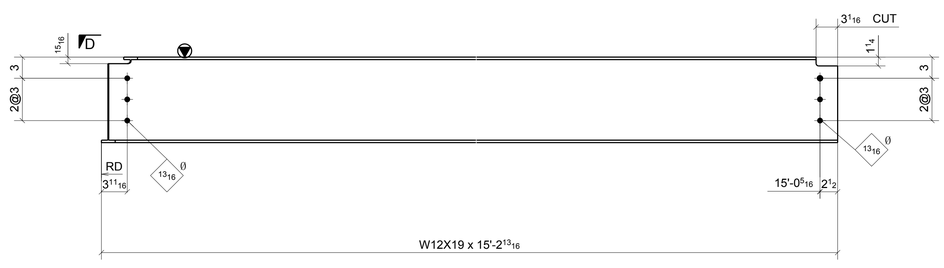


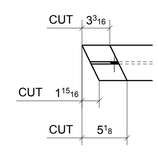


SECTION - C

ONE - BEAM ~ 418B

LOCATION: (REF: E4A)
ONE @ 3-4/A.5-B.3





SECTION - D

ONE - BEAM ~ 418C

LOCATION: (REF: E4A)
ONE @ 3-4/A.5-B.3

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	418A	W12X19	19'-9 1/8"	A992	
1	418B	W12X19	18'-3 7/16"	A992	
1	418C	W12X19	15'-2 13/16"	A992	

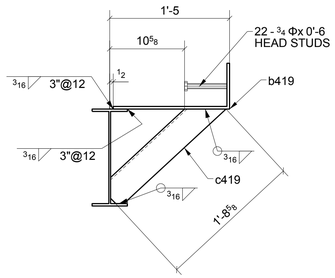
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/15/16

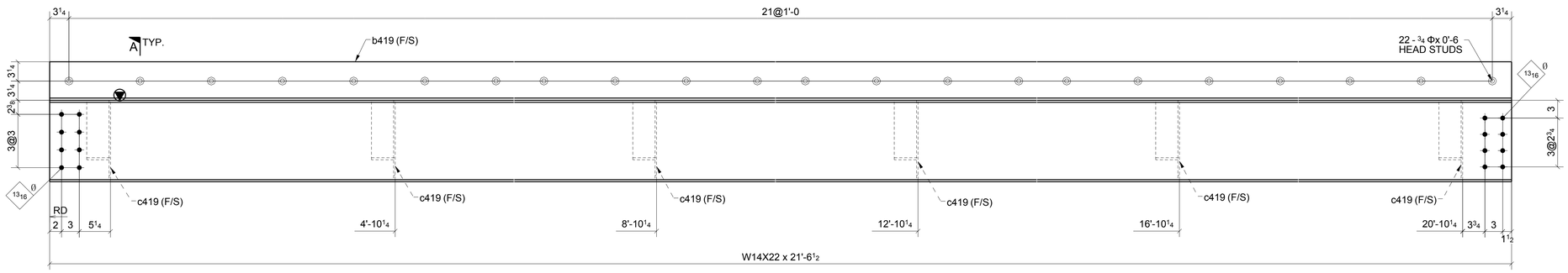
Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 418

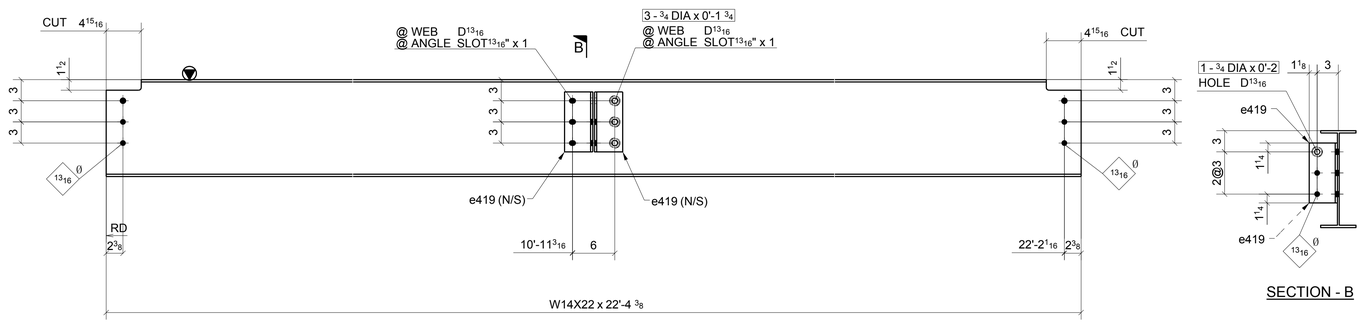


SECTION - A



ONE - BEAM ~ 419A

LOCATION: (REF: E4A)
ONE @ 1.7/A.5-B.3



ONE - BEAM ~ 419B

LOCATION: (REF: E4A)
ONE @ 1.9/A.5-B.3

SECTION - B

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	419A	W14X22	21'-6 1/2"	A992	
1	b419	BPL3/8"X23"	21'-6 1/2"	A36	
6	c419	L4X4X1/4	1'-8 5/8"	A36	
22		3/4" STUD	0'-6"		
1	419B	W14X22	22'-4 3/8"	A992	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	

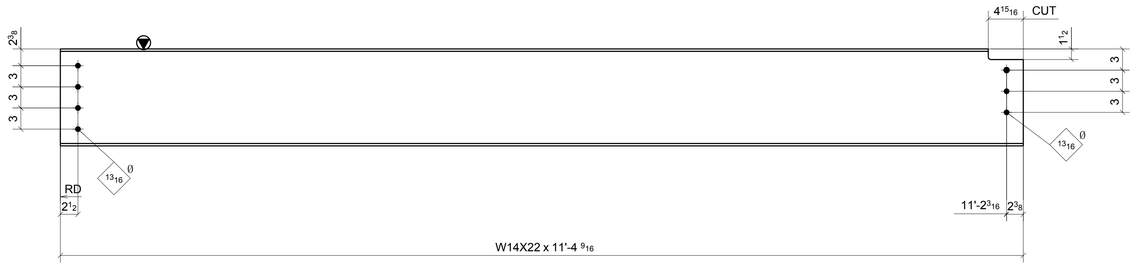
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

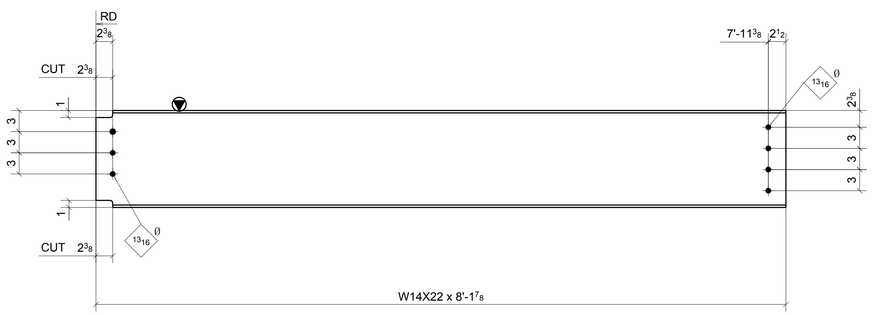
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/13/2016
Job No. A16013 BAT: DWG#: 419



ONE - BEAM ~ 420A

LOCATION:
ONE @ 1.9/4-A.5

(REF: E4A)



ONE - BEAM ~ 420B

LOCATION:
ONE @ 1.9-2/A.5-B.3

(REF: E4A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

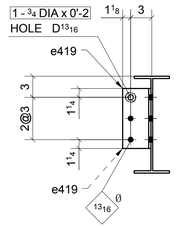
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	420A	W14X22	11'-4 9/16"	A992	
1	420B	W14X22	8'-1 7/8"	A992	

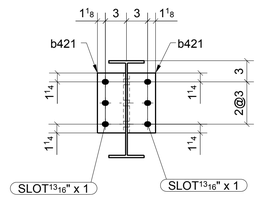
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

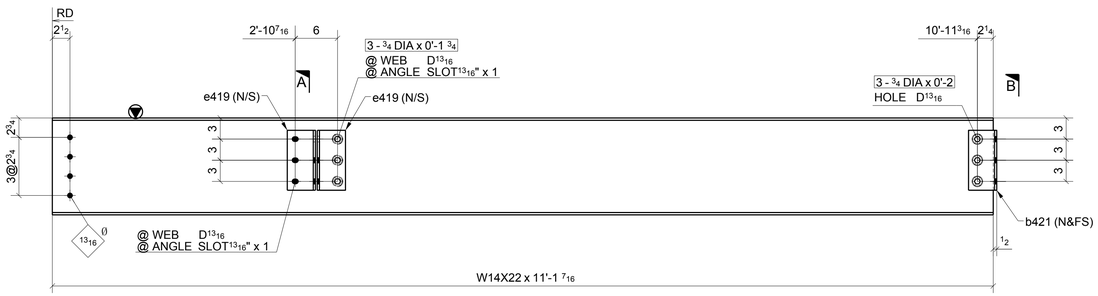
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 420



SECTION - A

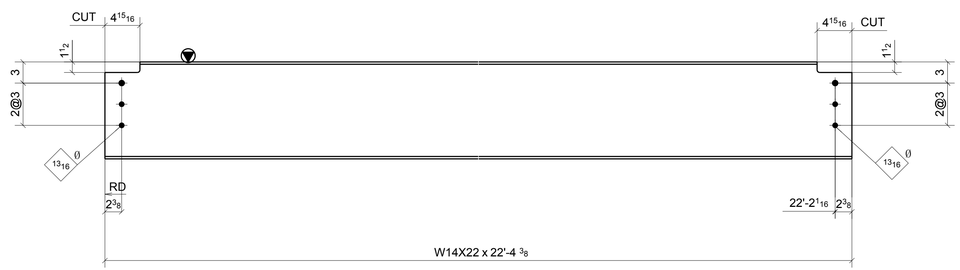


SECTION - B



ONE - BEAM ~ 421A

LOCATION: (REF: E4A)
ONE @ 4/A.5-B.3



2 - BEAMS ~ 421B

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/A.5-B.3
ONE @ 1.7-1.9/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	421A	W14X22	11'-1 7/16"	A992	
2	b421	L4X4X5/16	0'-8 1/2"	A36	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2	421B	W14X22	22'-4 3/8"	A992	

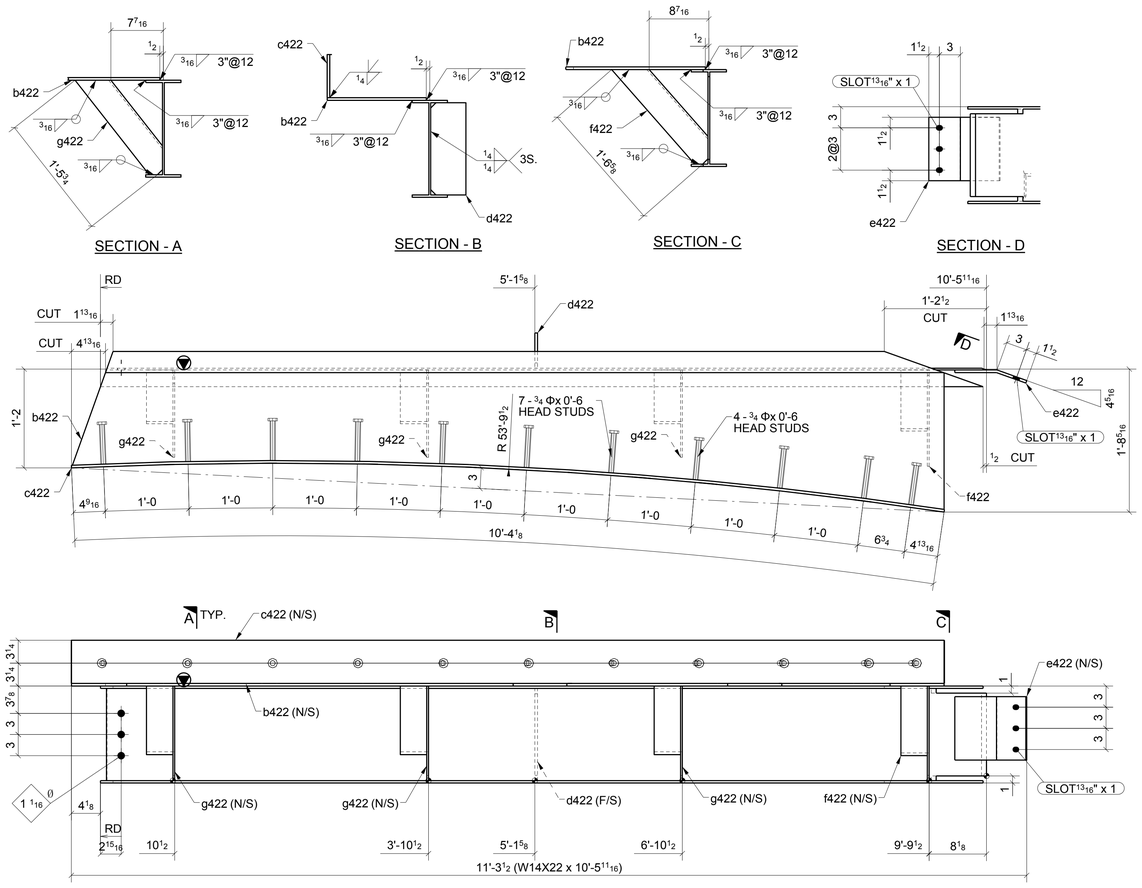
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 421



ONE - BEAM ~ 422A

LOCATION: (REF: E4A)
ONE @ 4>/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	422A	W14X22	10'-5 11/16"	A992	
1	b422	PL3/8"X19 13/16"	10'-3 3/4"	A36	
1	c422	BPL3/8"X6 1/8"	10'-4 3/16"	A36	
1	d422	PL3/8"X5"	1'-1 1/16"	A36	
1	e422	BPL3/8"X9"	0'-10 7/16"	A36	
1	f422	L4X4X1/4	1'-6 5/8"	A36	
3	g422	L4X4X1/4	1'-5 3/4"	A36	
11		3/4" STUD	0'-6"		

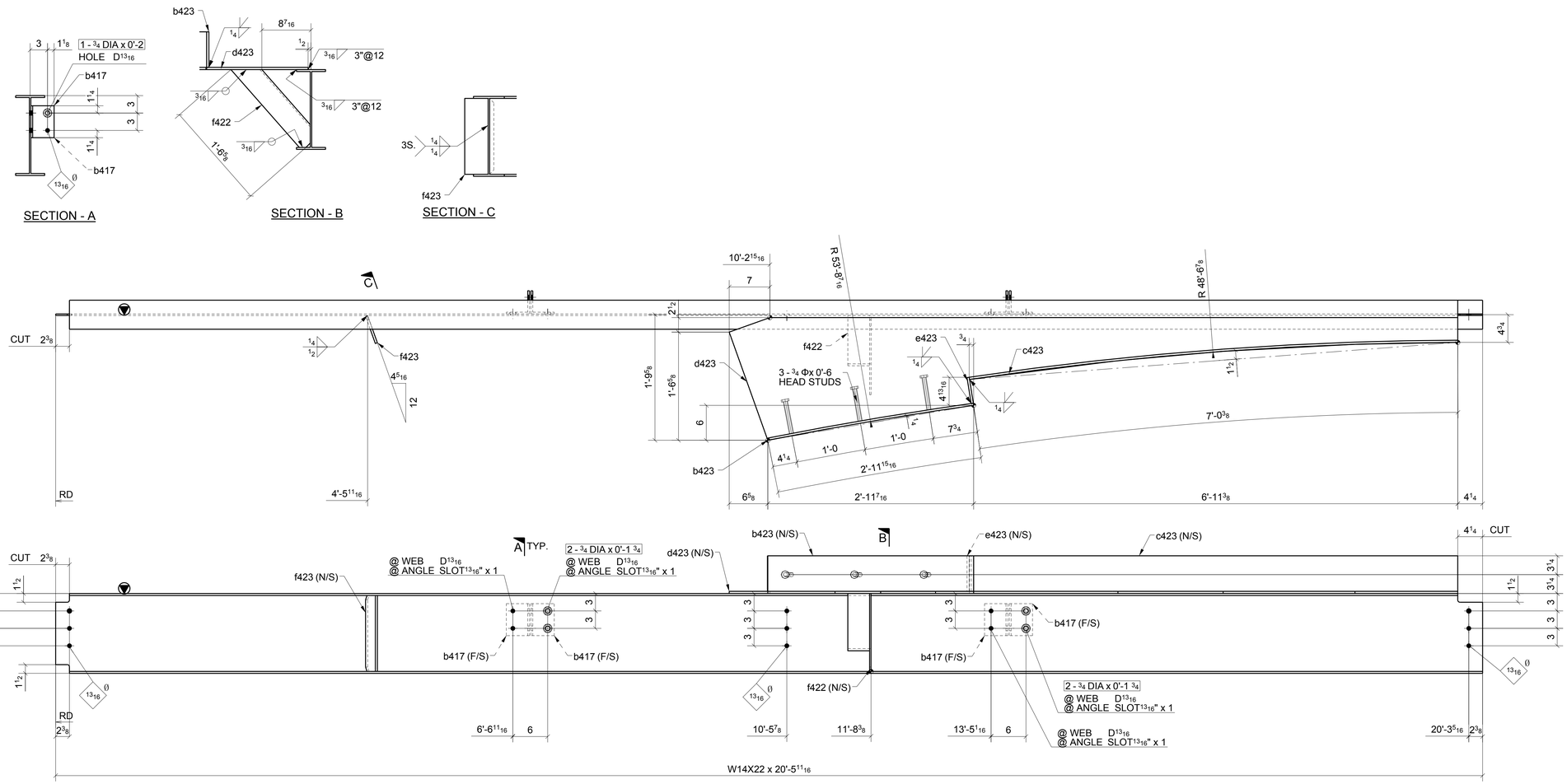
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 422



ONE - BEAM ~ 423A

LOCATION: (REF: E4A)
ONE @ <5/B

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

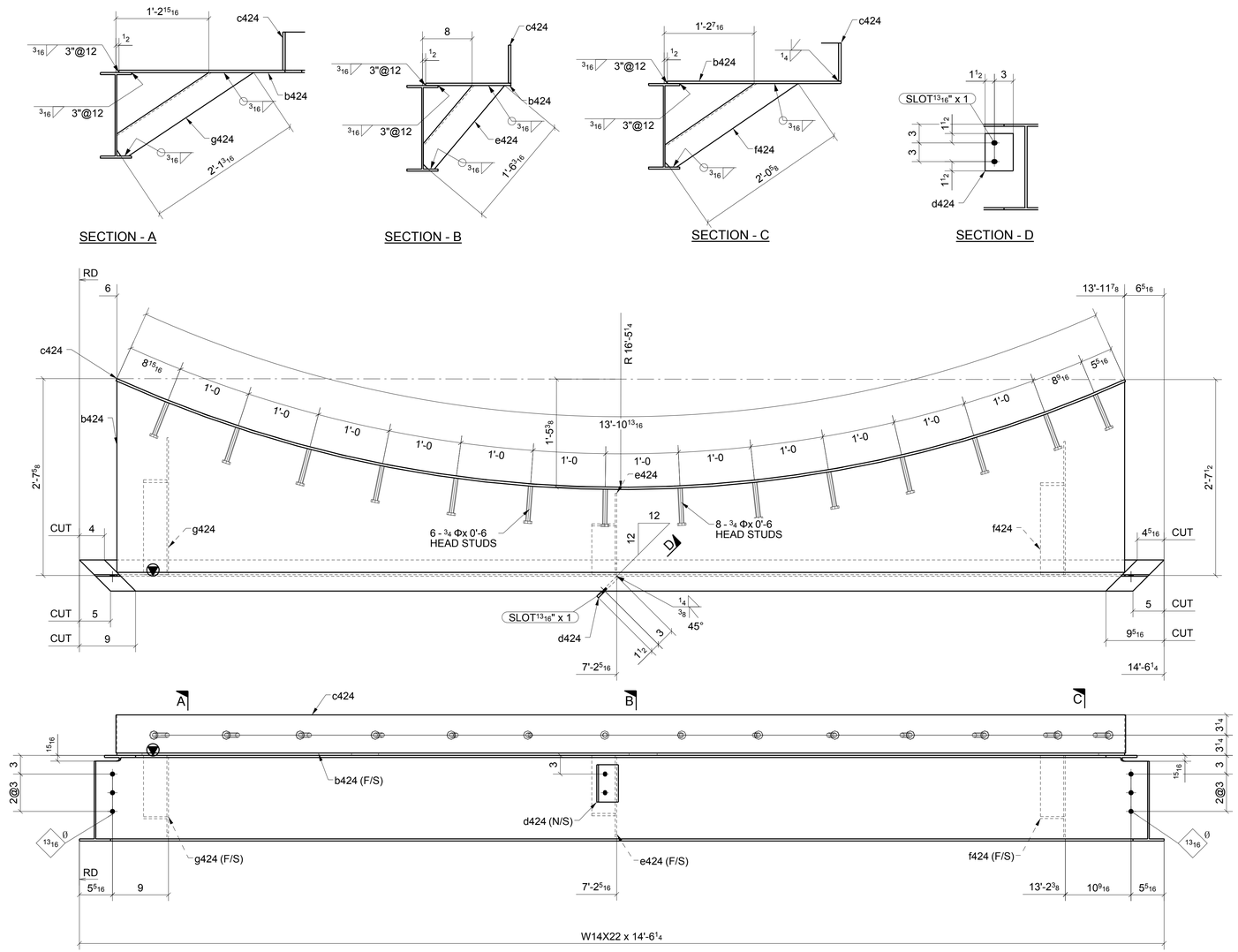
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	423A	W14X22	20'-5 5/8"	A992	
4	b417	L4X4X5/16	0'-5 1/2"	A36	
1	b423	BPL3/8"X6 1/8"	2'-11 15/16	A36	
1	c423	BPL3/8"X6 1/8"	7'-0 7/16"	A36	
1	d423	PL3/8"X21 1/8"	10'-5 7/16"	A36	
1	e423	PL3/8"X4 1/2"	0'-6 1/8"	A36	
1	f422	L4X4X1/4	1'-6 5/8"	A36	
1	f423	PL3/8"X5"	1'-1 1/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" STUD	0'-6"		

Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 423



SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	424A	W14X22	14'-6 1/4"	A992	
1	b424	PL3/8"X31 1/8"	13'-5 7/8"	A36	
1	c424	BPL3/8"X6 1/8"	13'-11 1/16	A36	
1	d424	PL3/8"X4 1/2"	0'-6"	A36	
1	e424	L4X4X1/4	1'-6 3/16"	A36	
1	f424	L4X4X1/4	2'-0 13/16"	A36	
1	g424	L4X4X1/4	2'-1 3/16"	A36	
14		3/4" STUD	0'-6"		

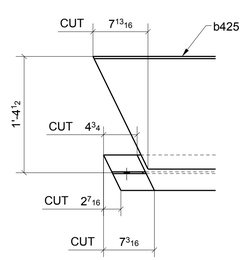
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

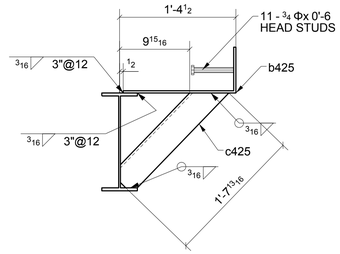
Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

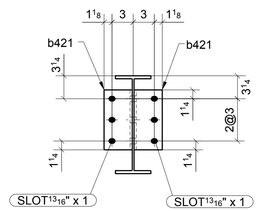
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 424



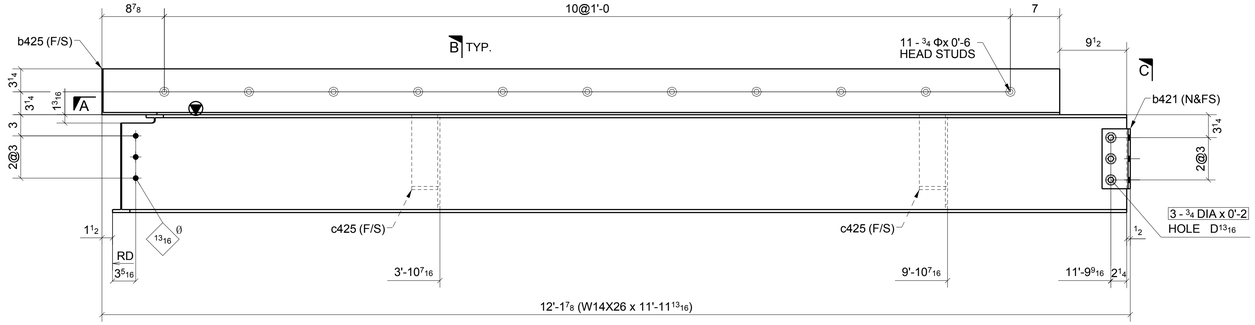
SECTION - A



SECTION - B



SECTION - C



ONE - BEAM ~ 425A

LOCATION: (REF: E4A)
ONE @ 2.6/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	425A	W14X26	11'-11 13/16"	A992	
2	b421	L4X4X5/16	0'-8 1/2"	A36	
1	b425	PL5/16"X22 1/2"	11'-3 7/8"	A36	
2	c425	L4X4X5/16	1'-7 13/16"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
11		3/4" STUD	0'-6"		

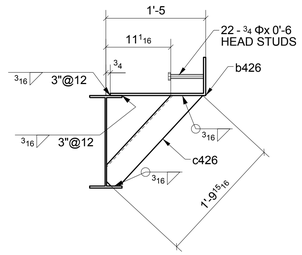
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

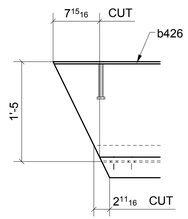
Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

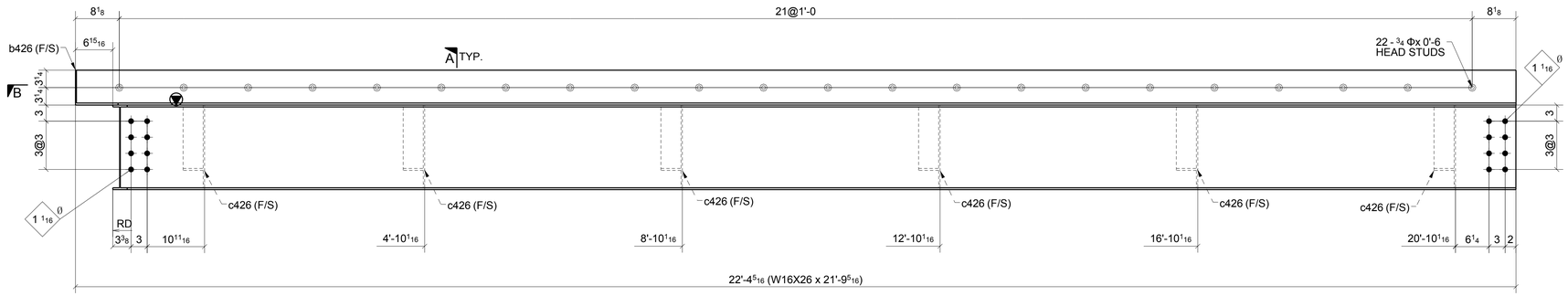
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 425



SECTION - A

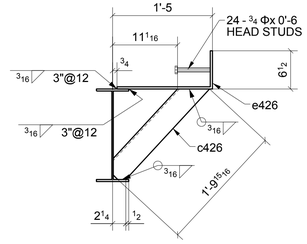


SECTION - B

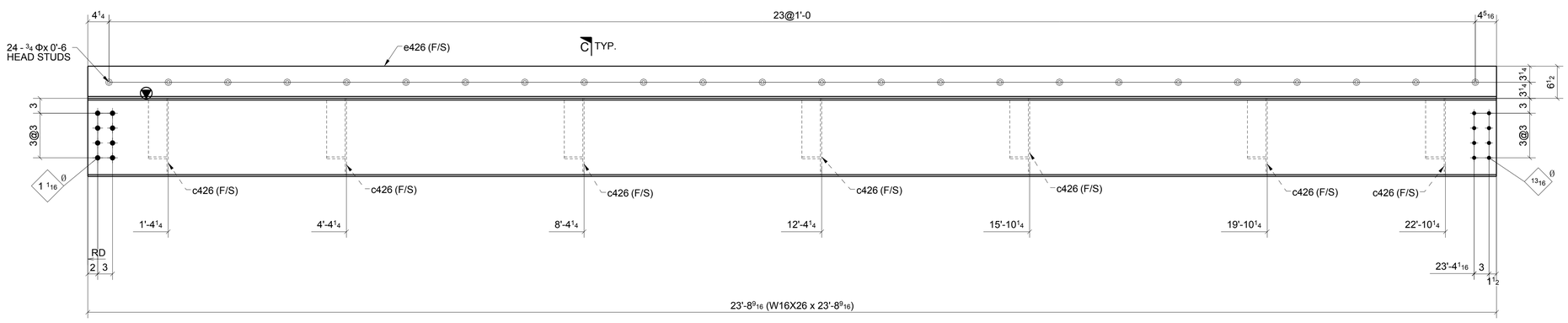


ONE - BEAM ~ 426A

LOCATION: (REF: E4A)
ONE @ 1.7/4-A.5



SECTION - C



ONE - BEAM ~ 426B

LOCATION: (REF: E4A)
ONE @ 1.7/B.3-C.2

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	426A	W16X26	21'-9 5/16"	A992	
1	b426	BPL3/8"X22 3/4"	22'-4 5/16"	A36	
6	c426	L4X4X1/4	1'-9 15/16"	A36	
22		3/4" STUD	0'-6"		
1	426B	W16X26	23'-8 9/16"	A992	
7	c426	L4X4X1/4	1'-9 15/16"	A36	
1	e426	BPL3/8"X22 3/4"	23'-8 9/16"	A36	
24		3/4" STUD	0'-6"		

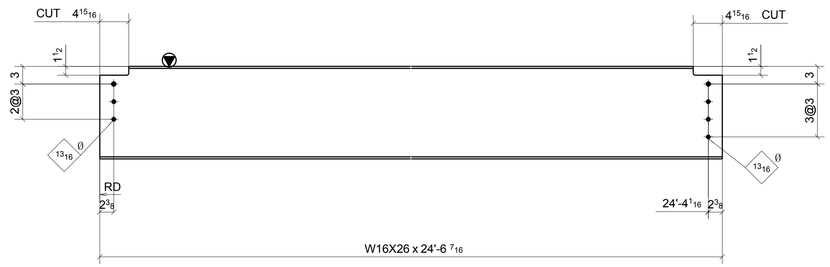
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

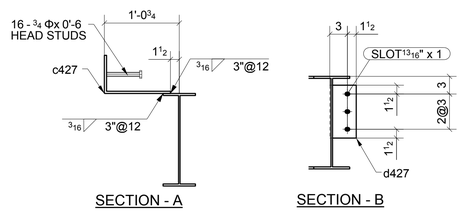
ATLAS IRON WORKS
ST. LOUIS, MO.

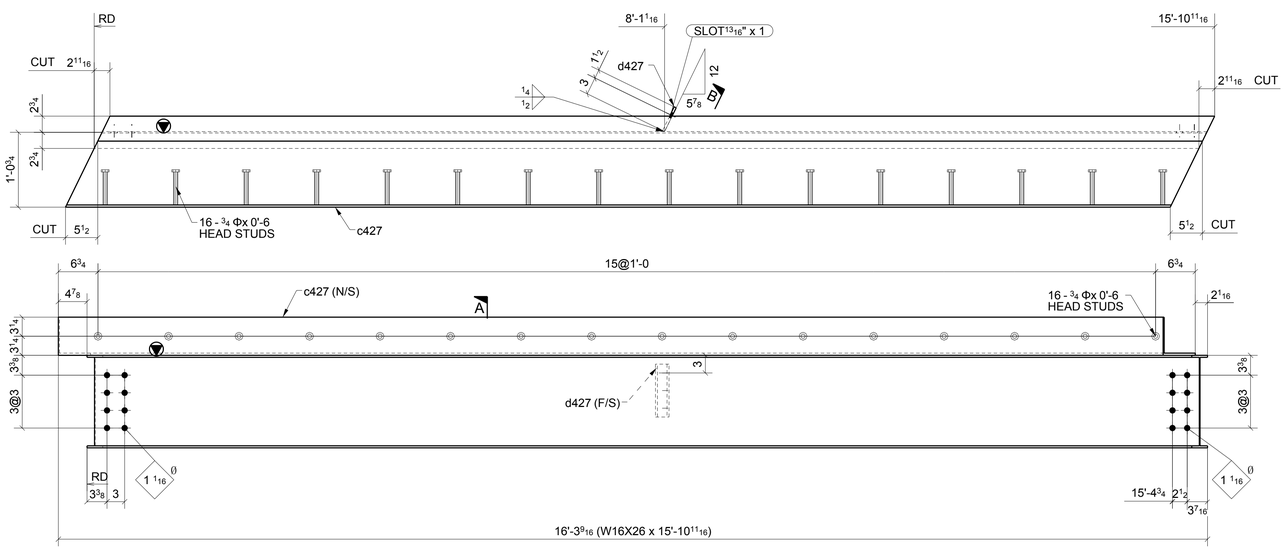
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 426



2 - BEAMS ~ 427A

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/B.3-C.2
ONE @ 1.9/B.3-C.2





ONE - BEAM ~ 427B

LOCATION: (REF: E4A)
ONE @ 2.6-3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	427A	W16X26	24'-6 7/16"	A992	
1	427B	W16X26	15'-10 11/16"	A992	
1	c427	BPL3/8"X17 3/4"	16'-1 1/2"	A36	
1	d427	PL3/8"X4 1/2"	0'-9"	A36	
16		3/4" STUD	0'-6"		

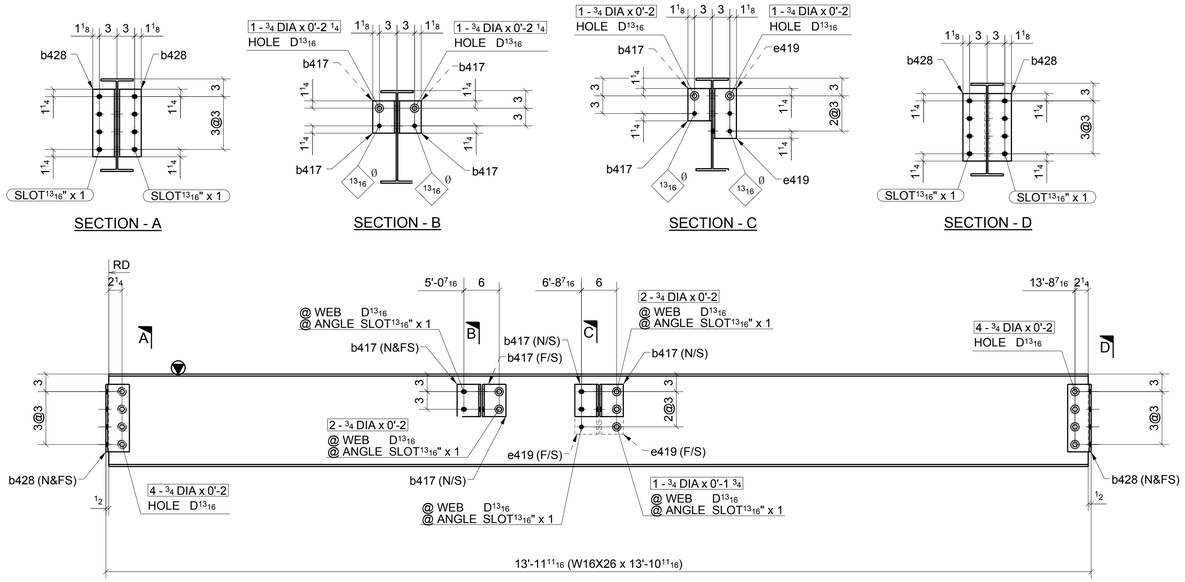
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

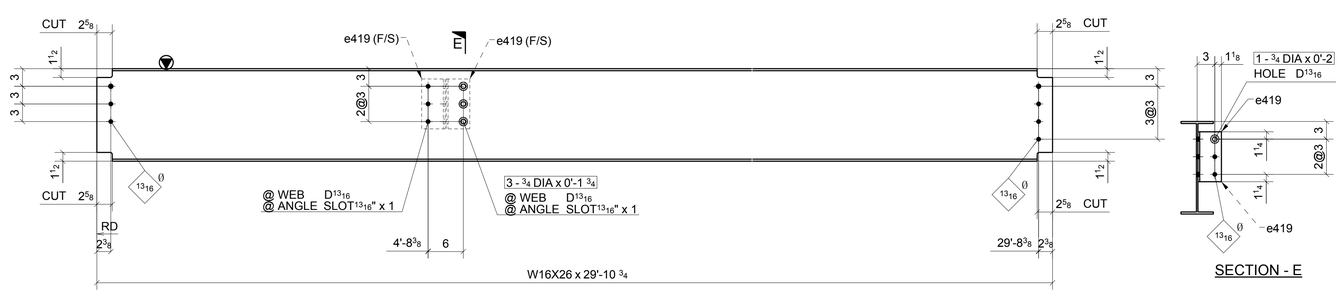
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 427



ONE - BEAM ~ 428A

LOCATION: (REF: E4A)
ONE @ 2.6-3/B.3



ONE - BEAM ~ 428B

LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 2.6-3/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	428A	W16X26	13'-10 11/16"	A992	
6	b417	L4X4X5/16	0'-5 1/2"	A36	
4	b428	L4X4X5/16	0'-11 1/2"	A36	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
1		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	428B	W16X26	29'-10 3/4"	A992	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	

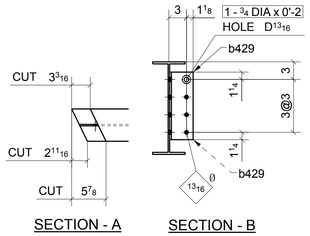
Romac By: _____ Checked By: _____
Beamline By: _____ Checked By: _____

ATLAS IRON WORKS
ST. LOUIS, MO.

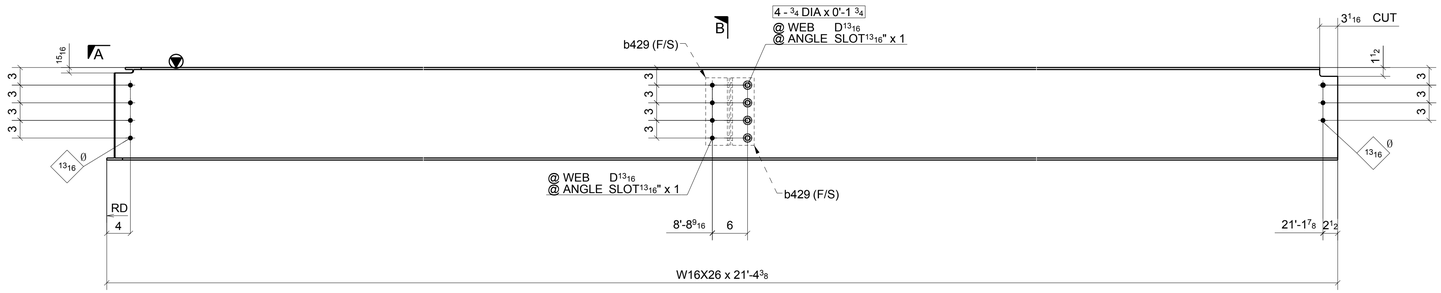
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: _____ COLOR: _____

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: _____ DWG#: 428

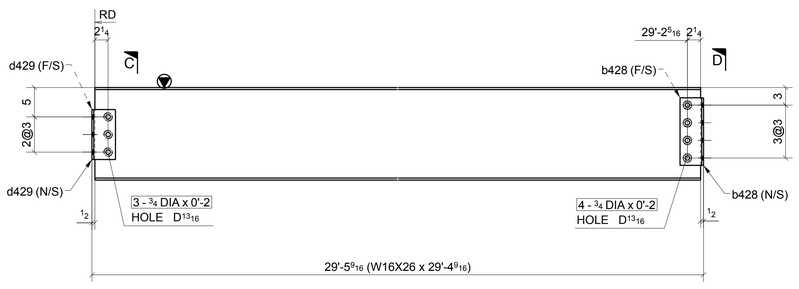


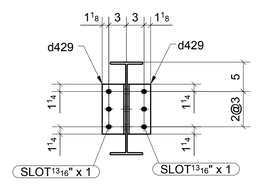
SECTION - A SECTION - B



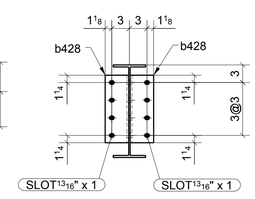
ONE - BEAM ~ 429A

LOCATION: (REF: E4A)
ONE @ 3-4/A.5-B.3





SECTION - C



SECTION - D

ONE - BEAM ~ 429B

LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 3/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	429A	W16X26	21'-4 3/8"	A992	
2	b429	L4X4X5/16	0'-11 1/2"	A36	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1	429B	W16X26	29'-4 9/16"	A992	
2	b428	L4X4X5/16	0'-11 1/2"	A36	
2	d429	L4X4X5/16	0'-8 1/2"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	

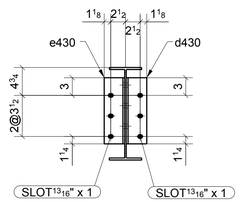
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/15/16

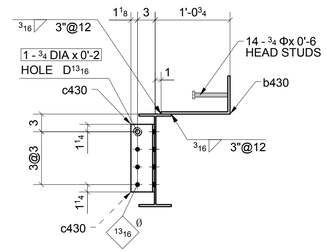
Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

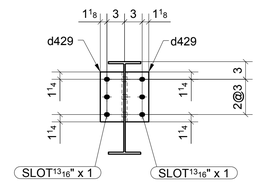
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 429



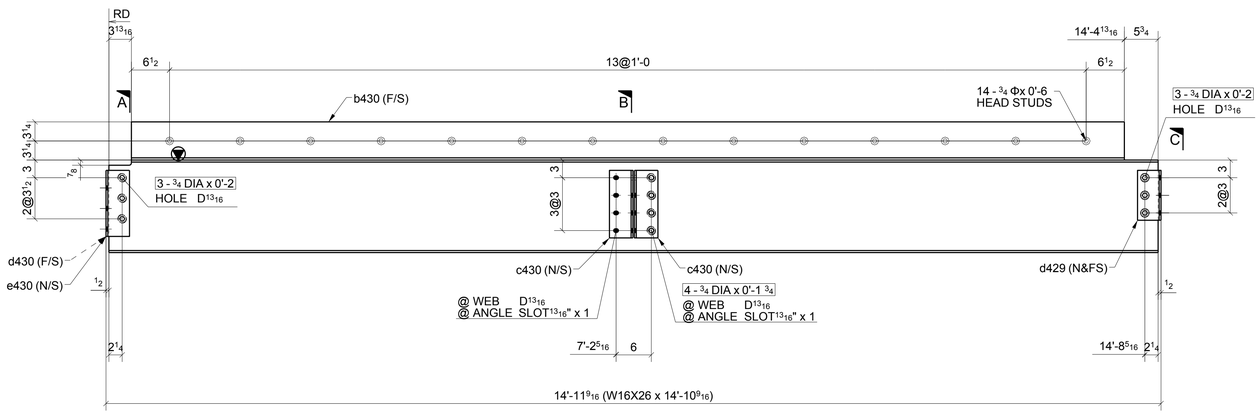
SECTION - A



SECTION - B

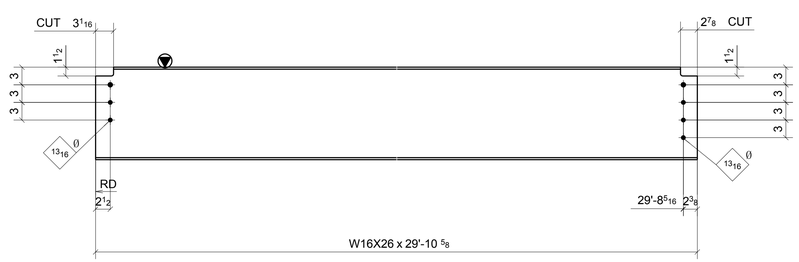


SECTION - C



ONE - BEAM ~ 430A

LOCATION: (REF: E4A)
ONE @ 2.6-3/C.3



2 - BEAMS ~ 430B

LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 3-4/B.3-C.3
ONE @ 3-4/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	430A	W16X26	14'-10 9/16"	A992	
1	b430	BPL3/8"X18 1/4"	14'-1"	A36	
2	c430	L4X4X5/16	0'-11 1/2"	A36	
2	d429	L4X4X5/16	0'-8 1/2"	A36	
1	d430	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	e430	L4X3-1/2X5/16	0'-11 1/4"	A36	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
14		3/4" STUD	0'-6"		
2	430B	W16X26	29'-10 5/8"	A992	

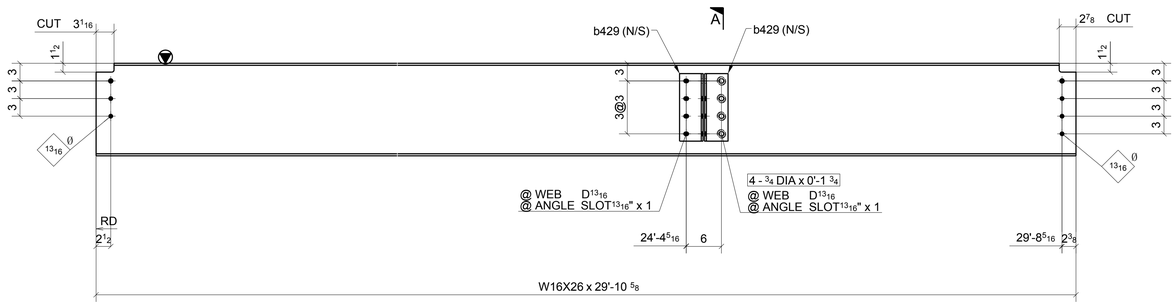
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

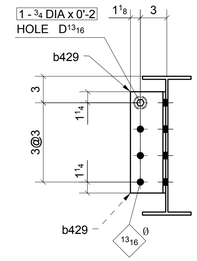
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 430

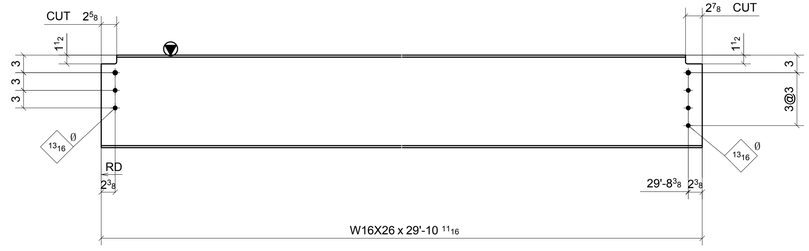


ONE - BEAM ~ 431A

LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 3-4/B.3-C.3

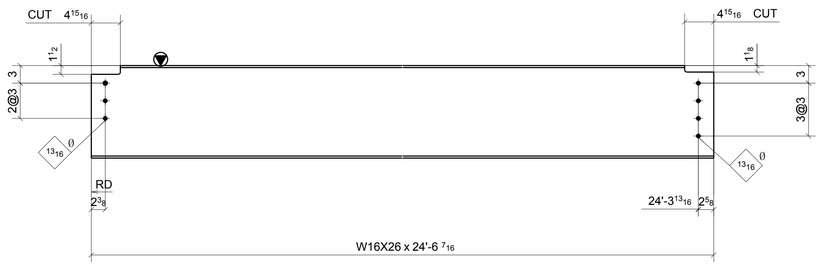


SECTION - A



2 - BEAMS ~ 431B

LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 4>/B.3-C.3
ONE @ 4>/B.3-C.3



ONE - BEAM ~ 431C

LOCATION: (REF: E4A)
ONE @ 1.7-1.9/B.3-C.2

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	431A	W16X26	29'-10 5/8"	A992	
2	b429	L4X4X5/16	0'-11 1/2"	A36	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2	431B	W16X26	29'-10 11/16"	A992	
1	431C	W16X26	24'-6 7/16"	A992	

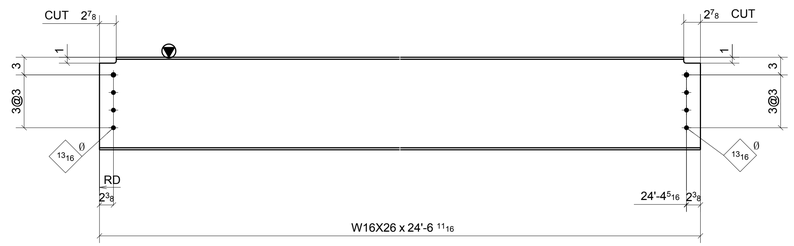
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/15/16

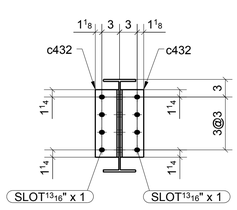
Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 431

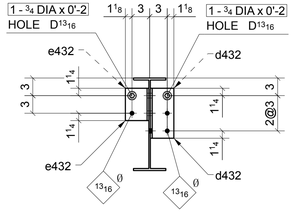


2 - BEAMS ~ 432A

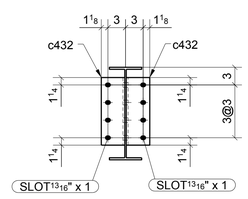
LOCATION: (REF: E4A)
ONE @ 2-2.6/B.3-C.2
ONE @ 2-2.6/B.3-C.2



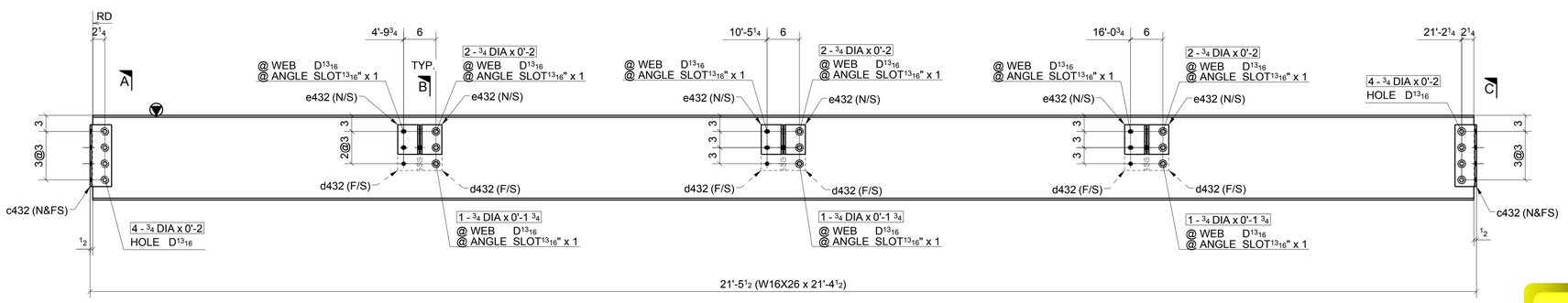
SECTION - A



SECTION - B



SECTION - C



ONE - BEAM ~ 432B

LOCATION: (REF: E4A)
ONE @ 1.6/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	432A	W16X26	24'-6 11/16"	A992	
1	432B	W16X26	21'-4 1/2"	A992	
4	c432	L4X4X5/16	0'-11 1/2"	A36	
6	d432	L4X4X5/16	0'-8 1/2"	A36	
6	e432	L4X4X5/16	0'-5 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	

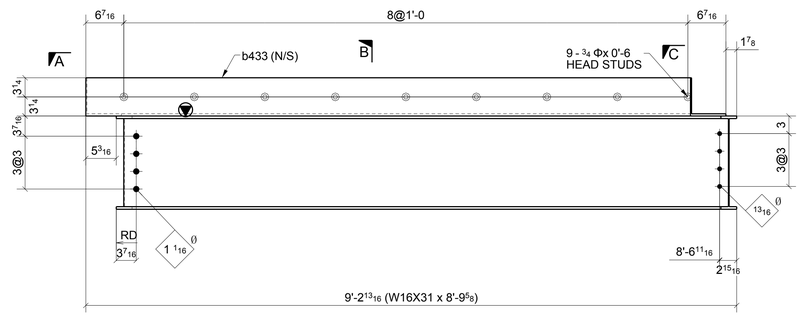
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

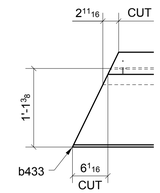
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 432



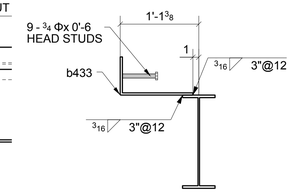
ONE - BEAM ~ 433A

LOCATION:
ONE @ 1.9-2/4-A.5

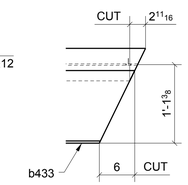
(REF: E4A)



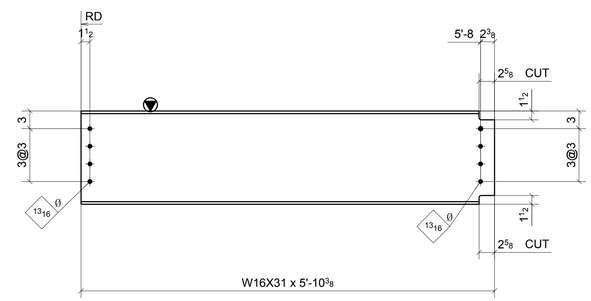
SECTION - A



SECTION - B



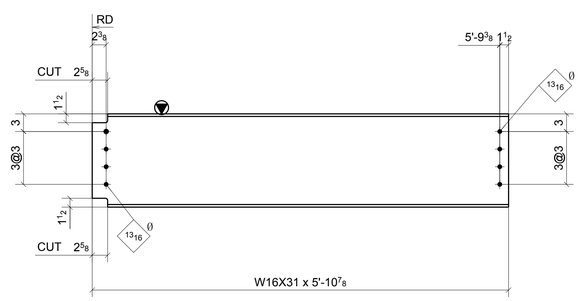
SECTION - C



ONE - BEAM ~ 433B

LOCATION:
ONE @ 3-4/A.5-B.3

(REF: E4A)



ONE - BEAM ~ 433C

LOCATION:
ONE @ 3-4/C.2

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	433A	W16X31	8'-9 5/8"	A992	
1	b433	BPL3/8"X18 7/8"	9'-0 15/16"	A36	
9		3/4" STUD	0'-6"		
1	433B	W16X31	5'-10 3/8"	A992	
1	433C	W16X31	5'-10 7/8"	A992	

FOR APPROVAL

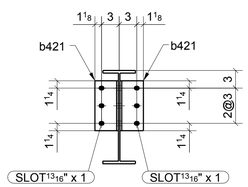
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

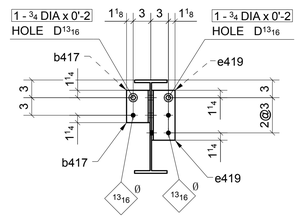
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

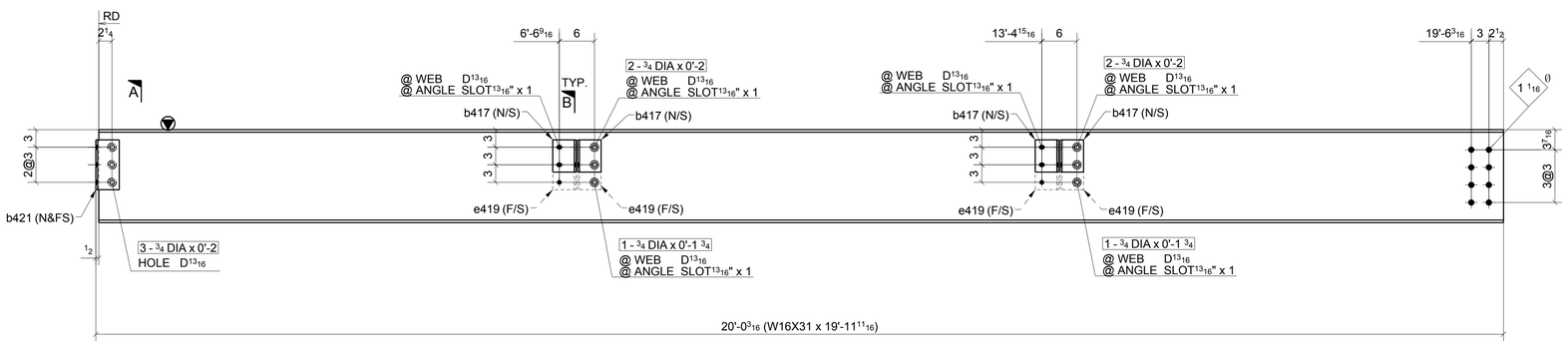
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 433



SECTION - A



SECTION - B



ONE - BEAM ~ 434A

LOCATION:
ONE @ <5/B.3

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	434A	W16X31	19'-11 11/16"	A992	
4	b417	L4X4X5/16	0'-5 1/2"	A36	
2	b421	L4X4X5/16	0'-8 1/2"	A36	
4	e419	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	

FOR APPROVAL

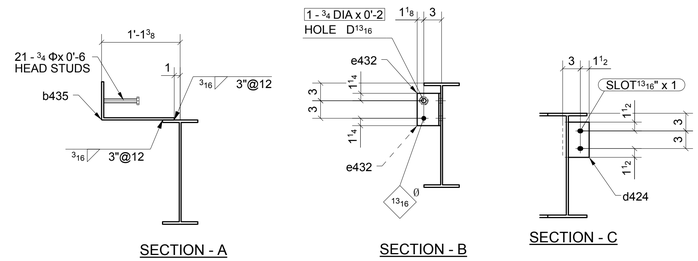
SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

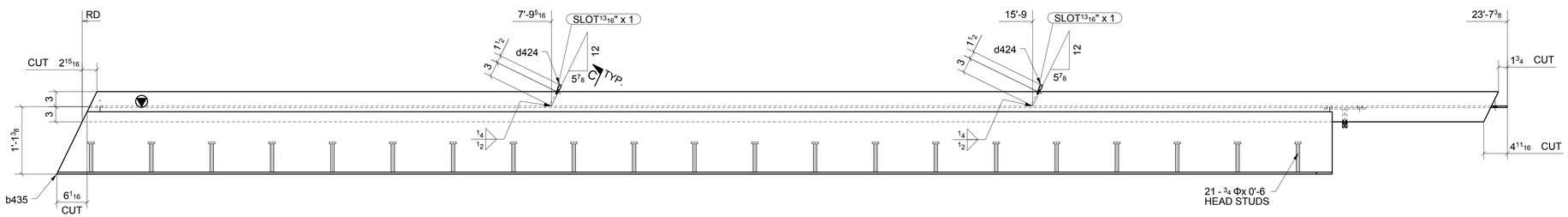
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

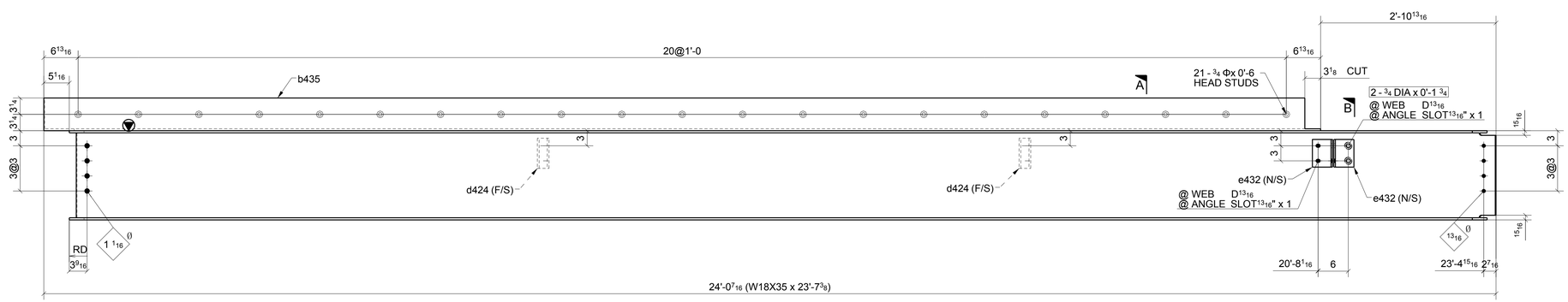
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 434







ONE - BEAM ~ 435A

LOCATION: (REF: E4A)

ONE @ 2-2.6/4-B.3

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	435A	W18X35	23'-7 3/8"	A992	
1	b435	BPL3/8"X18 7/8"	21'-1 5/8"	A36	
2	d424	PL3/8"X4 1/2"	0'-6"	A36	
2	e432	L4X4X5/16	0'-5 1/2"	A36	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
21		3/4" STUD	0'-6"		

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: --

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

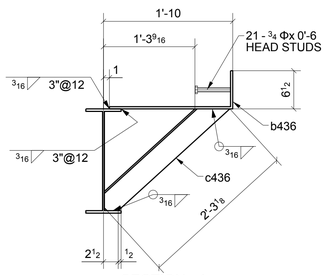
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

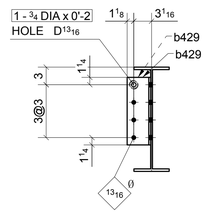
Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016

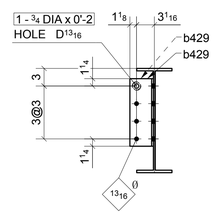
Job No. A16013 BAT: DWG#: 435



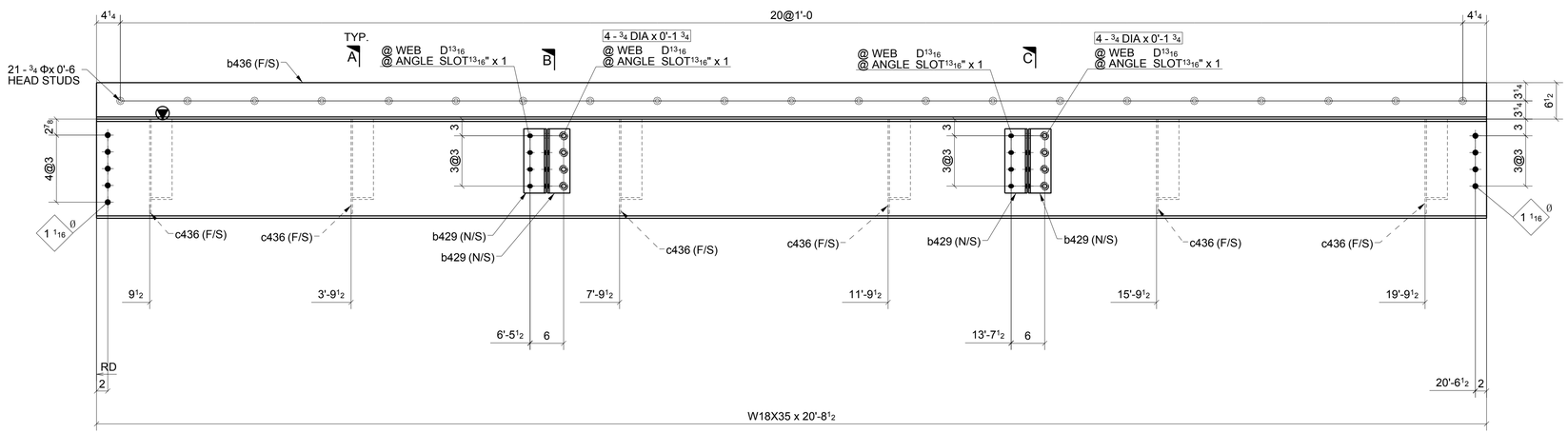
SECTION - A



SECTION - B



SECTION - C



ONE - BEAM ~ 436A

LOCATION: (REF: E4A)
ONE @ 2-2.6/C.2

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

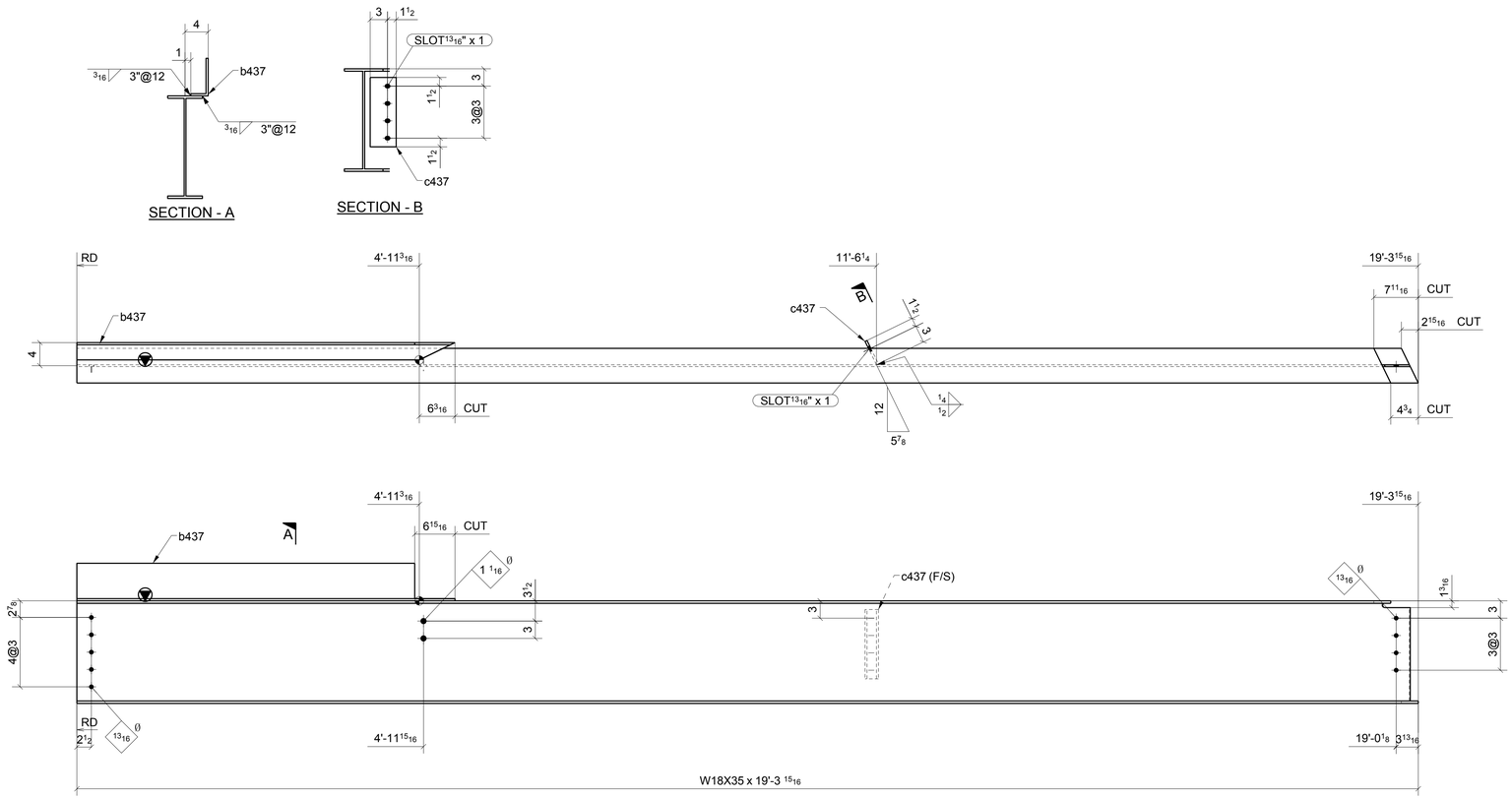
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	436A	W18X35	20'-8 1/2"	A992	
4	b429	L4X4X5/16	0'-11 1/2"	A36	
1	b436	BPL3/8"X27 1/2"	20'-8 1/2"	A36	
6	c436	L4X4X1/4	2'-3 1/8"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
21		3/4" STUD	0'-6"		

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 436



ONE - BEAM ~ 437A

LOCATION: (REF: E4A)
ONE @ 2.6/4-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

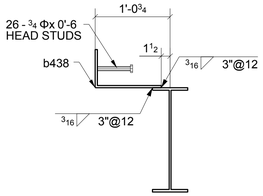
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	437A	W18X35	19'-3 15/16"	A992	
1	b437	BPL3/8"X9 1/2"	5'-5 3/8"	A36	
1	c437	PL3/8"X4 1/2"	1'-0"	A36	

Romac By:		Checked By:	
Beamline By:		Checked By:	

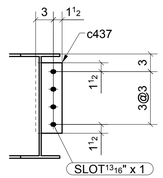
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL			06/15/16	
Sequence:	4	Ref. E-Plans:	–		
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.		
Holes:	13/16"DIA.	Bolts:	NOTED		
Cleaning:	NONE				
Paint:	NO				
DFT:		COLOR:			

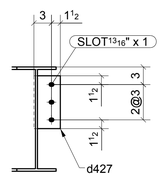
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: ZZ	Date: 06/09/2016	Ckd: LJ	Date: 06/10/2016		
Job No.	A16013	BAT:		DWG#: 437	



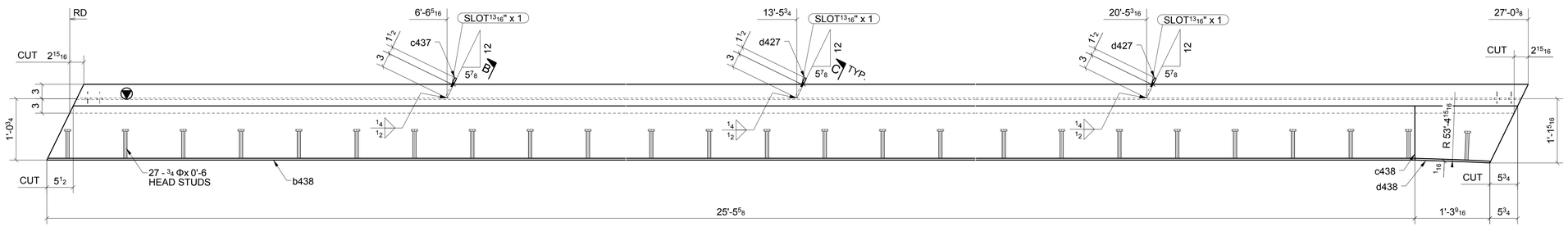
SECTION - A

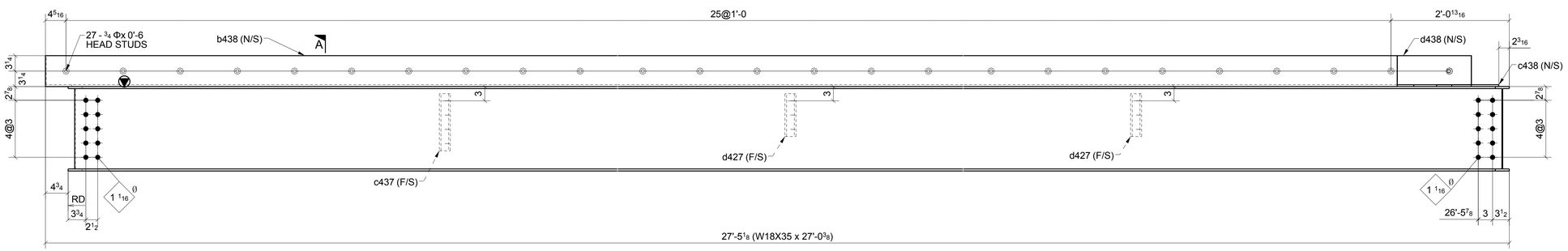


SECTION - B



SECTION - C





ONE - BEAM ~ 438A

LOCATION: (REF: E4A)
ONE @ 3-4/4-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

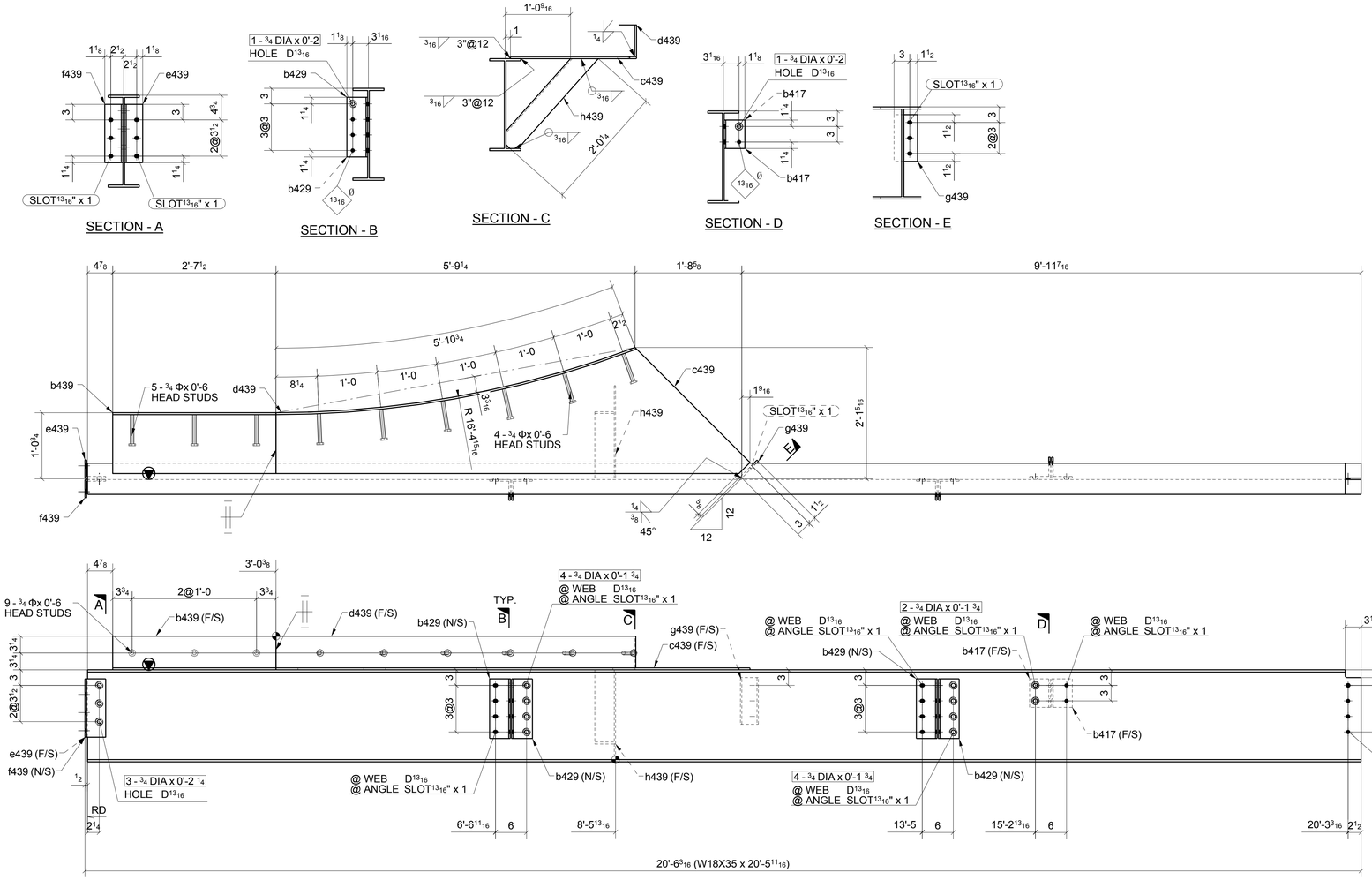
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	438A	W18X35	27'-0 3/8"	A992	
1	b438	BPL3/8"X17 3/4"	25'-5 5/8"	A36	
1	c437	PL3/8"X4 1/2"	1'-0"	A36	
1	c438	PL3/8"X11 13/16"	1'-9 5/16"	A36	
2	d427	PL3/8"X4 1/2"	0'-9"	A36	
1	d438	BPL3/8"X6 1/8"	1'-3 9/16"	A36	
1		3/4" STUD	0'-6"		
26		3/4" STUD	0'-6"		

Romac By:		Checked By:	
Beamline By:		Checked By:	

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL				06/15/16
Sequence:	4	Ref. E-Plans:	–		
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.		
Holes:	13/16"DIA.	Bolts:	NOTED		
Cleaning:	NONE				
Paint:	NO				
DFT:		COLOR:			

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: ZZ	Date: 06/09/2016	Ckd: LJ	Date: 06/14/2016		
Job No. A16013	BAT:	DWG#: 438			



ONE - BEAM ~ 439A

LOCATION: (REF: E4A)
ONE @ <5/C.3

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	439A	W18X35	20'-5 5/8"	A992	
2	b417	L4X4X5/16	0'-5 1/2"	A36	
4	b429	L4X4X5/16	0'-11 1/2"	A36	
1	b439	BPL3/8"X18 1/4"	2'-7 1/2"	A36	
1	c439	PL3/8"X24 5/16"	7'-7 7/16"	A36	
1	d439	BPL3/8"X6 1/8"	5'-10 7/8"	A36	
1	e439	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f439	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	g439	PL3/8"X4 1/2"	0'-9"	A36	
1	h439	L4X4X1/4	2'-0 1/4"	A36	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" STUD	0'-6"		
6		3/4" STUD	0'-6"		

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

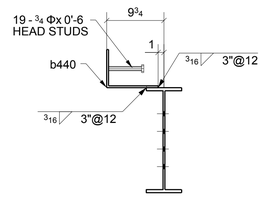
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

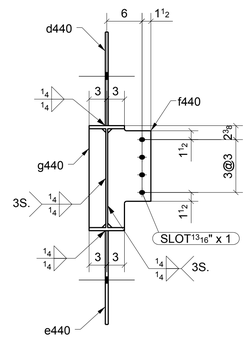
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 439



SECTION - A



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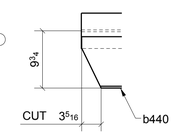
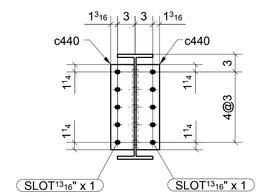
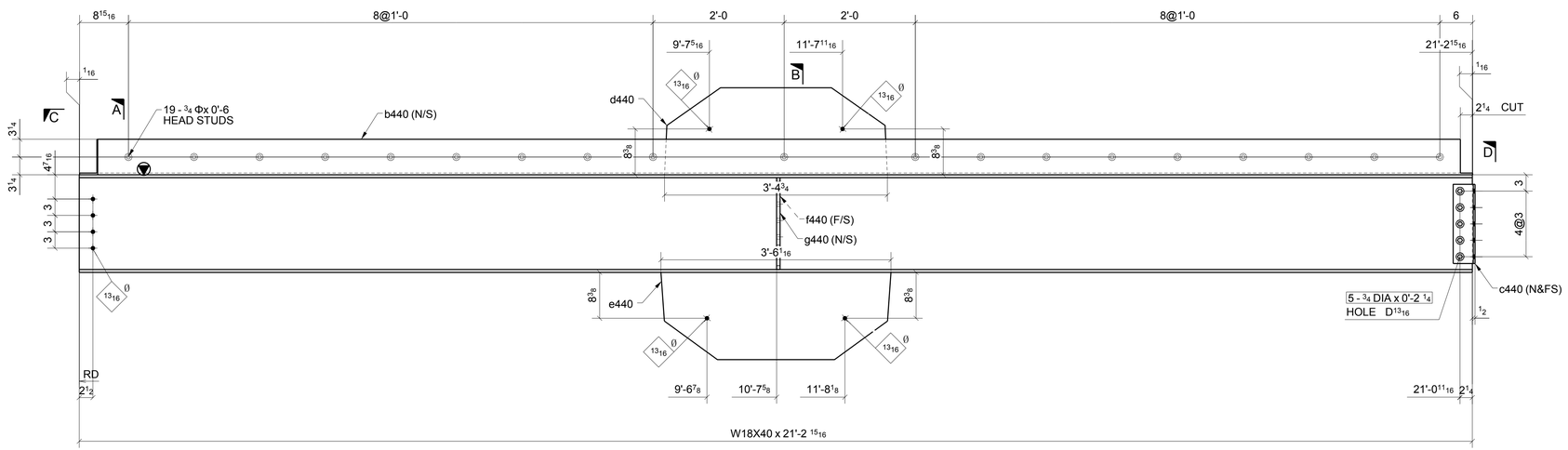


SECTION - C



SECTION - D



ONE - BEAM ~ 440A

LOCATION: (REF: E4A)
ONE @ 2/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	440A	W18X40	21'-2 15/16"	A992	
1	b440	BPL5/16""15"1/4	21'-2 15/16	A36	
2	c440	L4X4X5/16	1'-2 1/2"	A36	
1	d440	PL1/2"X15 15/16"	3'-4 3/4"	A572-GR.50	
1	e440	PL1/2"X16"	3'-6 1/16"	A572-GR.50	
1	f440	PL5/8"X7 3/8"	1'-4 13/16"	A36	
1	g440	PL5/8"X2 7/8"	1'-4 13/16"	A36	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
19		3/4" STUD	0'-6"		

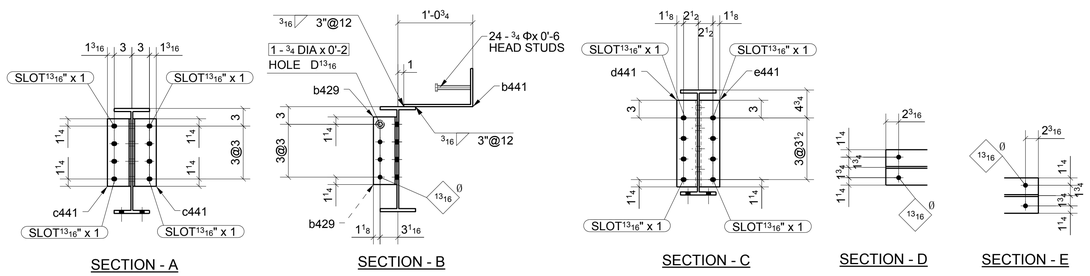
Romac By: Checked By:
Beamline By: Checked By:

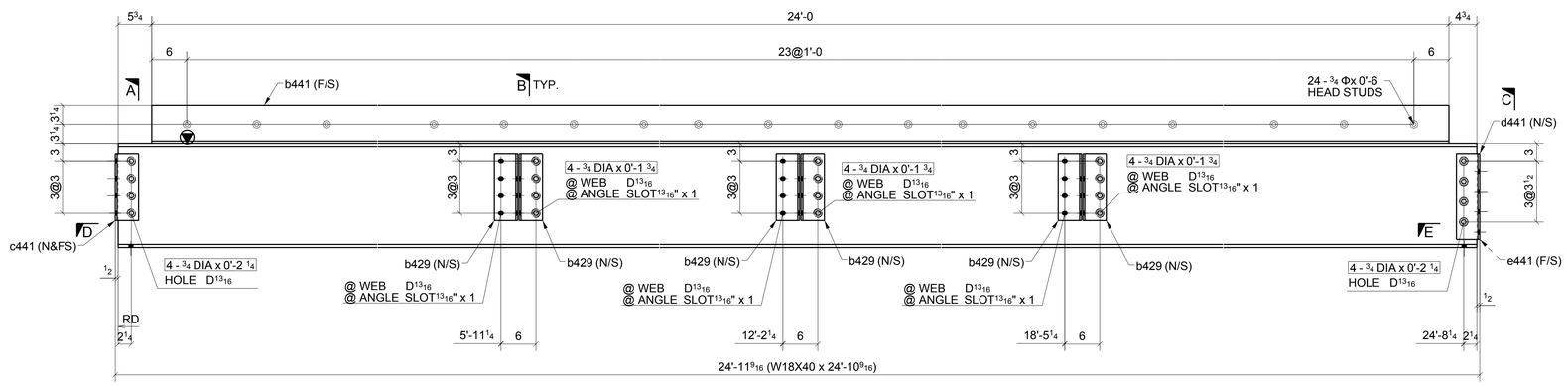
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/13/2016
Job No. A16013 BAT: DWG#: 440





ONE - BEAM ~ 441A

LOCATION: (REF: E4A)
ONE @ 3-4/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	441A	W18X40	24'-10 1/2"	A992	
6	b429	L4X4X5/16	0'-11 1/2"	A36	
1	b441	BPL3/8"X18 1/4"	24'-0"	A36	
2	c441	L4X4X5/16	0'-11 1/2"	A36	
1	d441	L4X3-1/2X5/16	1'-2 3/4"	A36	
1	e441	L4X3-1/2X5/16	1'-2 3/4"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
12		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
24		3/4" STUD	0'-6"		

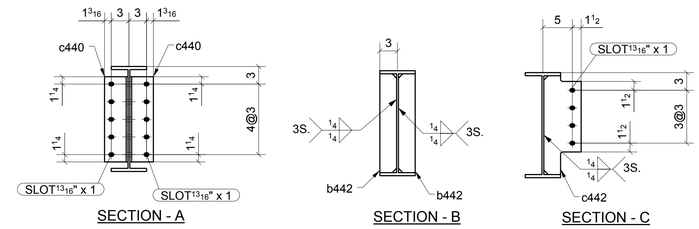
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

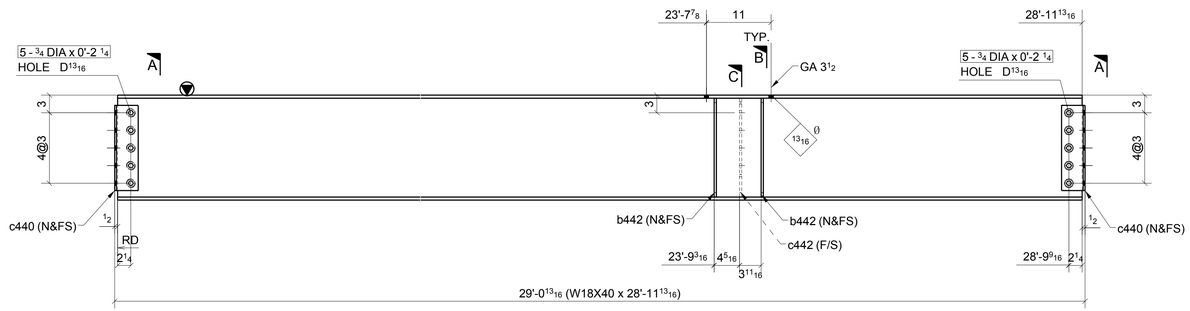
Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 441

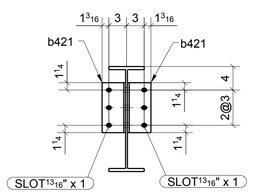


SECTION - A SECTION - B SECTION - C

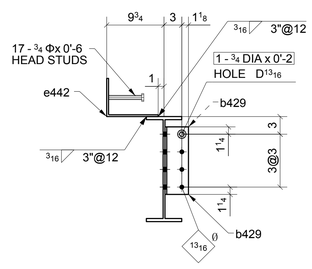


ONE - BEAM ~ 442A

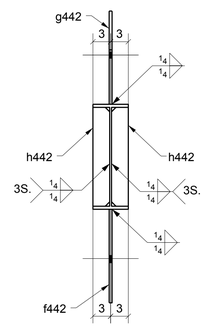
LOCATION: CAMBER=3/4" (REF: E4A)
ONE @ 4/B.3-C.3



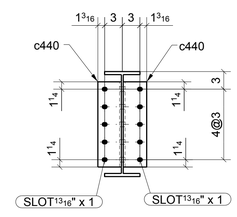
SECTION - E



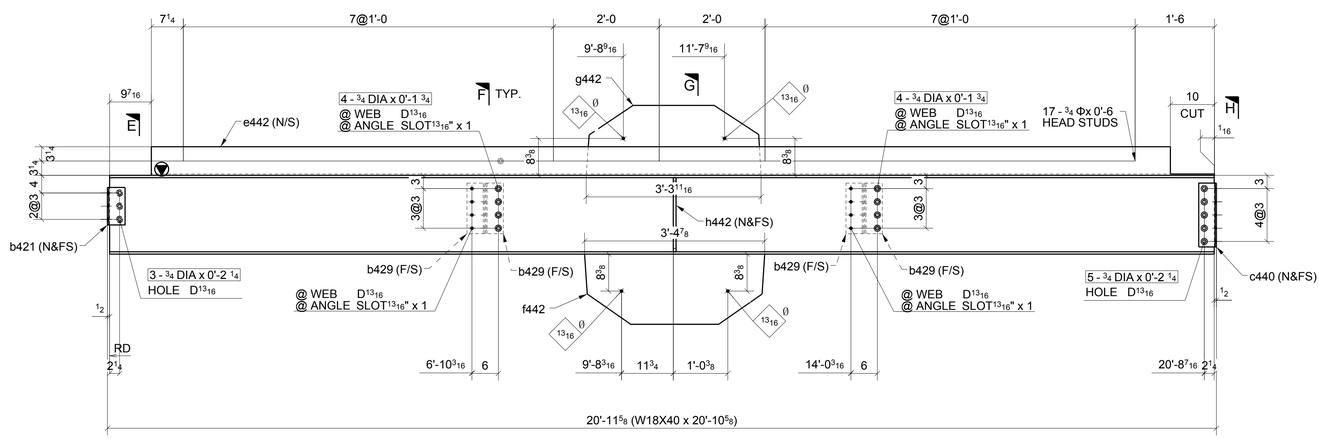
SECTION - F



SECTION - G



SECTION - H



ONE - BEAM ~ 442B

LOCATION: (REF: E4A)
ONE @ 2-2.6/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

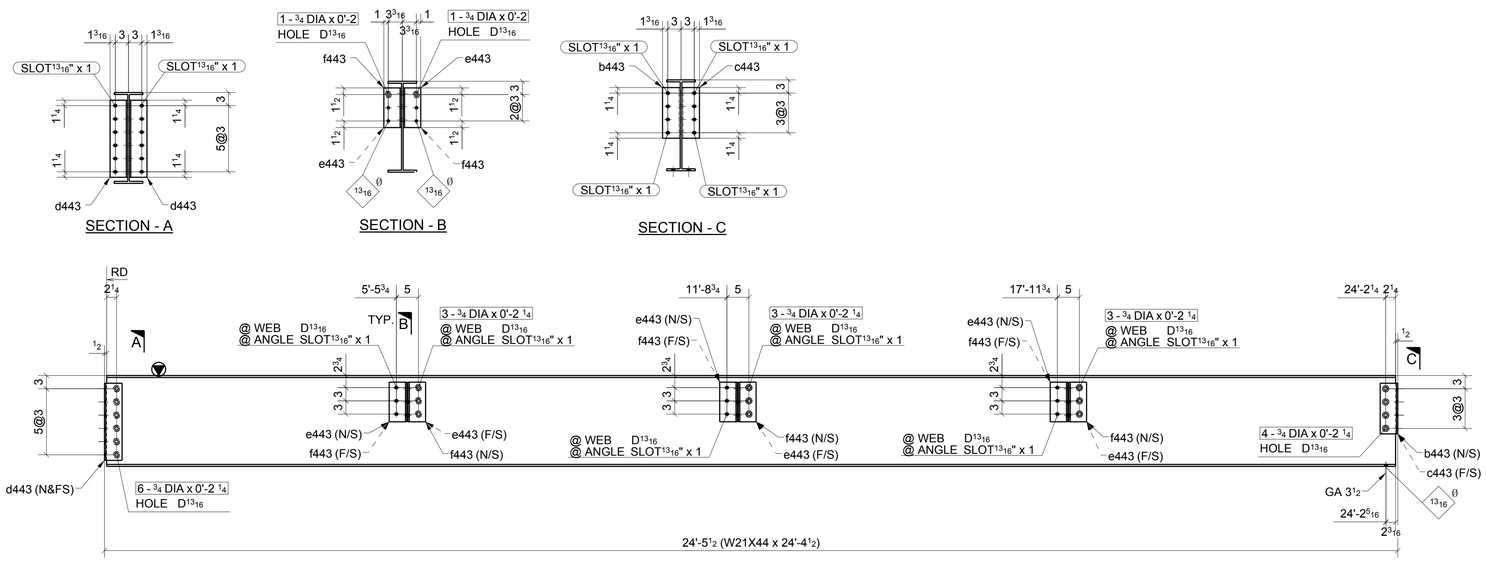
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	442A	W18X40	28'-11 13/16"	A992	
4	b442	PL3/8"X2 7/8"	1'-4 13/16"	A36	
4	c440	L4X4X5/16	1'-2 1/2"	A36	
1	c442	PL3/8"X6 3/8"	1'-4 13/16"	A36	
10		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1	442B	W18X40	20'-10 5/8"	A992	
2	b421	L4X4X5/16	0'-8 1/2"	A36	
4	b429	L4X4X5/16	0'-11 1/2"	A36	
2	c440	L4X4X5/16	1'-2 1/2"	A36	
1	e442	BPL5/16"*15"1/4	20'-1 1/4"	A36	
1	f442	PL1/2"X15 15/16"	3'-4 7/8"	A572-GR.50	
1	g442	PL1/2"X15 7/8"	3'-3 11/16"	A572-GR.50	
2	h442	PL5/8"X2 7/8"	1'-4 13/16"	A36	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
17		3/4" STUD	0'-6"		

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 442



ONE - BEAM ~ 443A

LOCATION: (REF: E4A)

ONE @ 3-4/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	443A	W21X44	24'-4 1/2"	A992	
1	b443	L4X4X5/16	0'-11 1/2"	A36	
1	c443	L4X4X5/16	0'-11 1/2"	A36	
2	d443	L4X4X5/16	1'-5 1/2"	A36	
6	e443	L4X4X5/16	0'-9"	A36	
6	f443	L4X4X5/16	0'-9"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

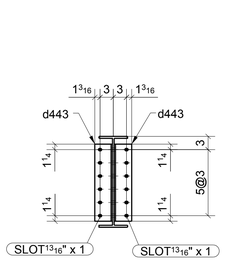
Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 443



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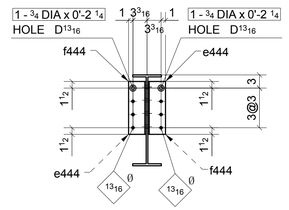
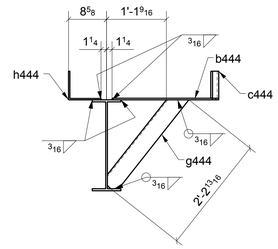
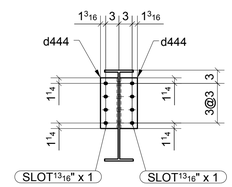


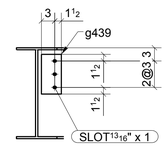
SECTION - B



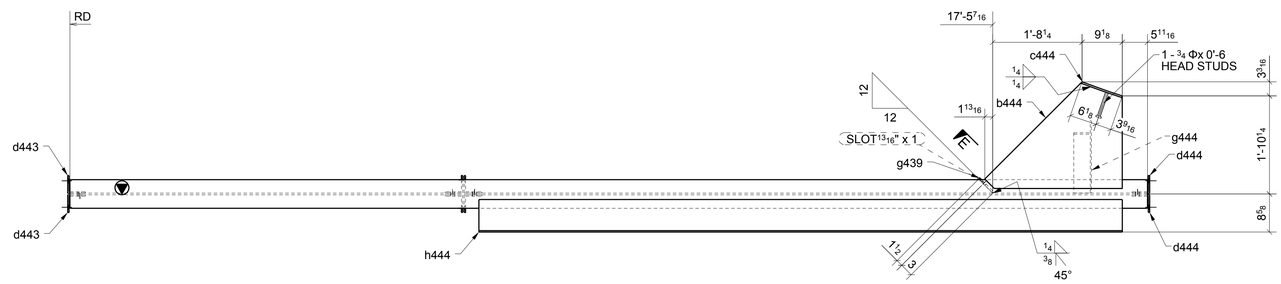
SECTION - C

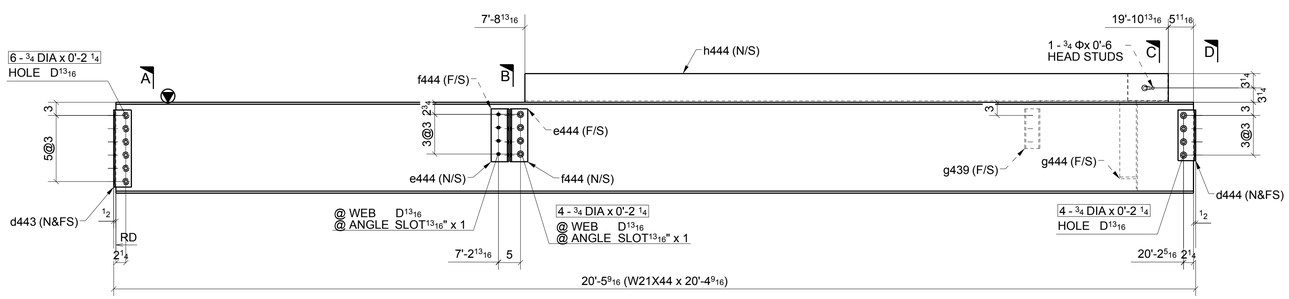


SECTION - D



SECTION - E





ONE - BEAM ~ 444A

LOCATION: (REF: E4A)
ONE @ 5/C-D

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	444A	W21X44	20'-4 1/2"	A992	
1	b444	PL3/8"X23 9/16"	2'-11 3/8"	A36	
1	c444	BPL3/8"X6 1/8"	0'-10 11/16	A36	
2	d443	L4X4X5/16	1'-5 1/2"	A36	
2	d444	L4X4X5/16	0'-11 1/2"	A36	
2	e444	L4X4X5/16	1'-0"	A36	
2	f444	L4X4X5/16	1'-0"	A36	
1	g439	PL3/8"X4 1/2"	0'-9"	A36	
1	g444	L4X4X1/4	2'-2 13/16"	A36	
1	h444	BPL5/16"X13 7/8"	12'-2"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" STUD	0'-6"		

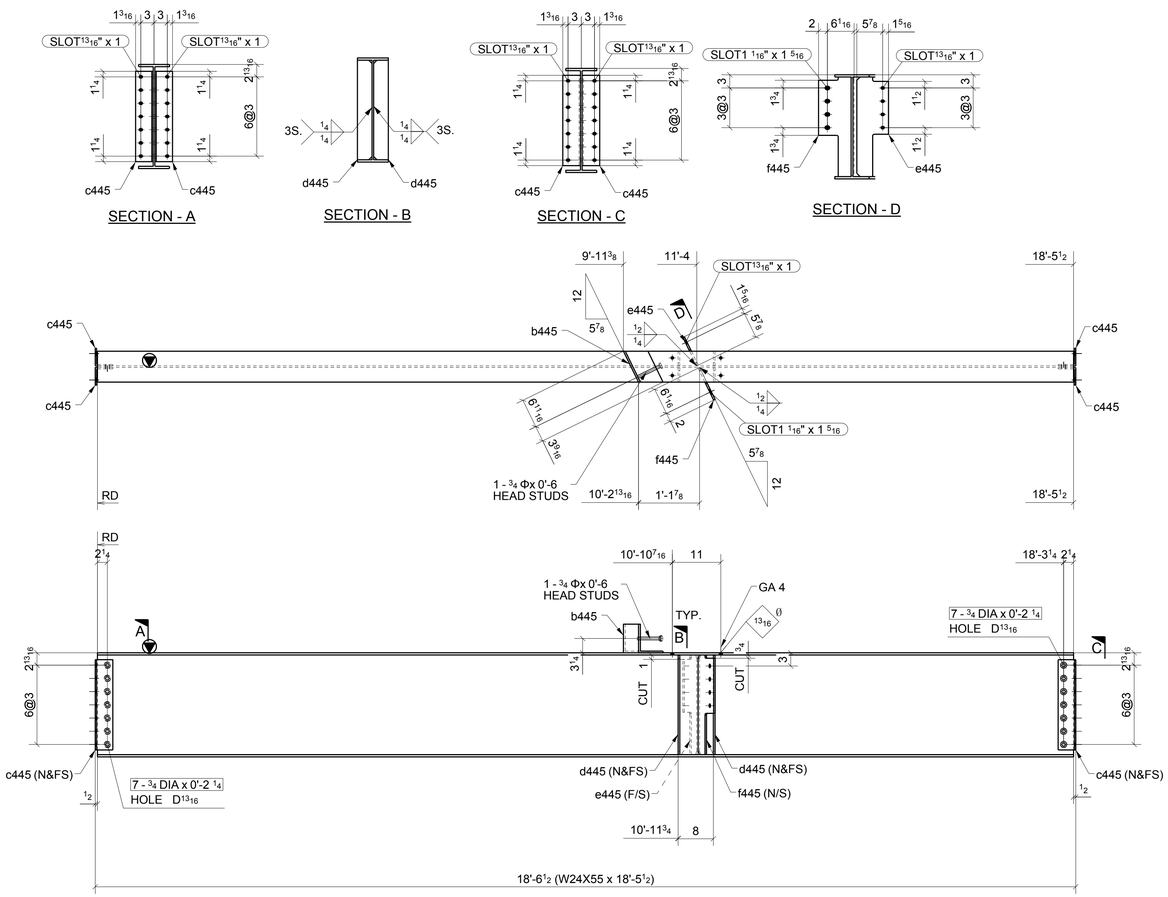
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 444



ONE - BEAM ~ 445A

LOCATION: ONE @ 2/4-A.5 (REF: E4A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	445A	W24X55	18'-5 1/2"	A992	
1	b445	BPL3/8""11"1/2	0'-10 1/4"	A36	
4	c445	L4X4X5/16	1'-8 1/2"	A36	
4	d445	PL3/8"X3 5/16"	1'-10 5/8"	A36	
1	e445	PL3/8"X7 3/16"	1'-10 5/8"	A36	
1	f445	PL3/8"X8 1/16"	1'-10 5/8"	A36	
14		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
1		3/4" STUD	0'-6"		

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

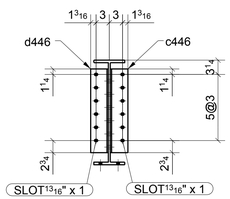
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

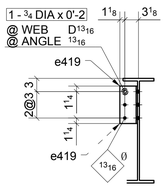
Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016

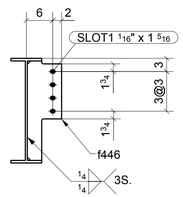
Job No. A16013 BAT: DWG#: 445



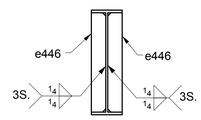
SECTION - A



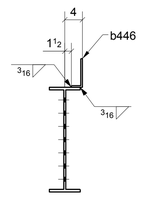
SECTION - B



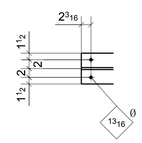
SECTION - C



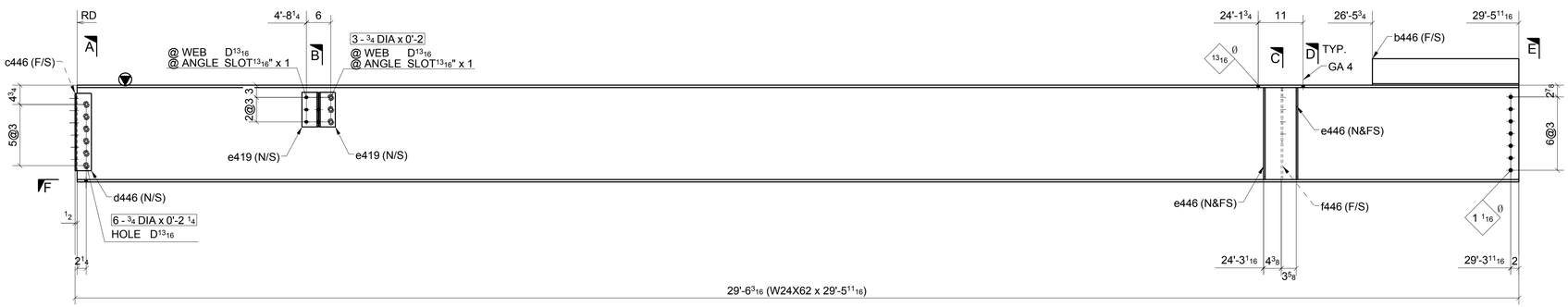
SECTION - D



SECTION - E



SECTION - F



ONE - BEAM ~ 446A

LOCATION: (REF: E4A)
ONE @ 2.6/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

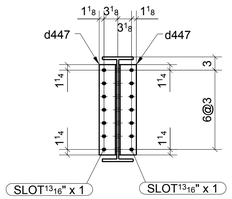
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	446A	W24X62	29'-5 11/16"	A992	
1	b446	BPL3/8"X9"	2'-11 15/16	A36	
1	c446	L4X4X5/16	1'-7"	A36	
1	d446	L4X4X5/16	1'-7"	A36	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
4	e446	PL3/8"X3 5/16"	1'-10 9/16"	A36	
1	f446	PL3/8"X7 13/16"	1'-10 9/16"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

Romac By: Checked By:
Beamline By: Checked By:

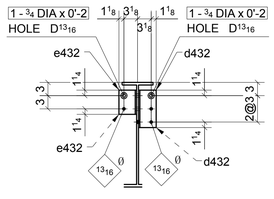
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

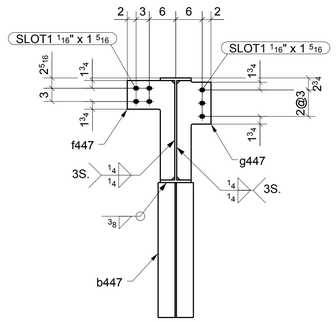
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 446



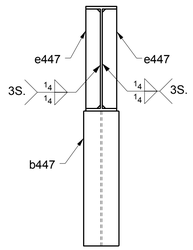
SECTION - A



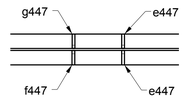
SECTION - B



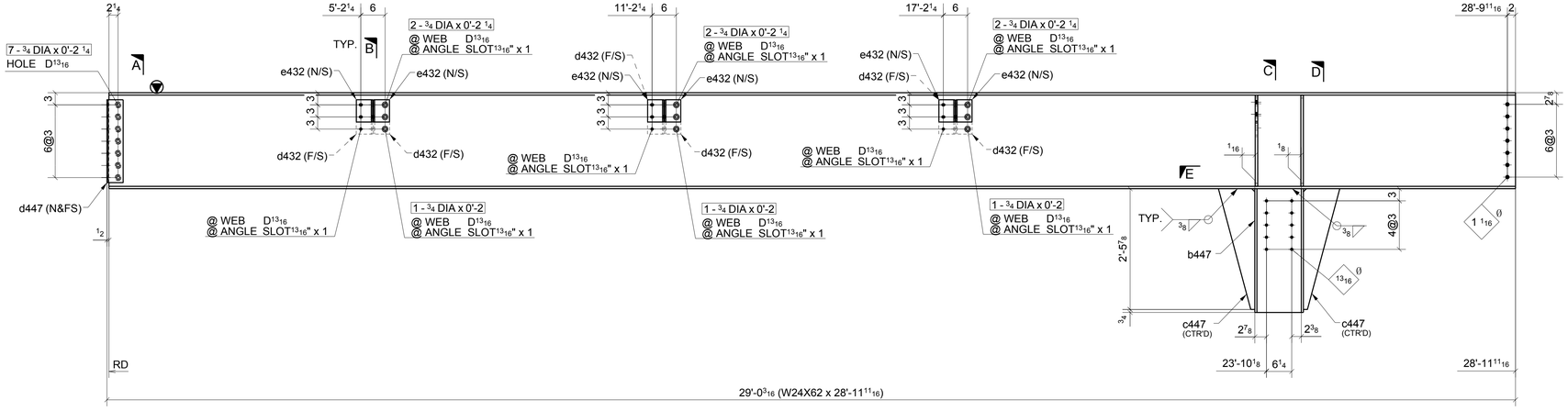
SECTION - C



SECTION - D



SECTION - E



ONE - BEAM ~ 447A

LOCATION:
ONE @ 1.6/B.3-C.3

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	447A	W24X62	28'-11 11/16"	A992	
1	b447	W12X40	2'-6 5/8"	A992	
2	c447	PL3/4"X9"	2'-5 7/8"	A36	
6	d432	L4X4X5/16	0'-8 1/2"	A36	
2	d447	L4X4X5/16	1'-8 1/2"	A36	
6	e432	L4X4X5/16	0'-5 1/2"	A36	
2	e447	PL5/8"X3 5/16"	1'-10 9/16"	A36	
1	f447	PL5/8"X10 3/4"	1'-10 9/16"	A36	
1	g447	PL5/8"X7 3/4"	1'-10 9/16"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2"	A325N_TC	

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

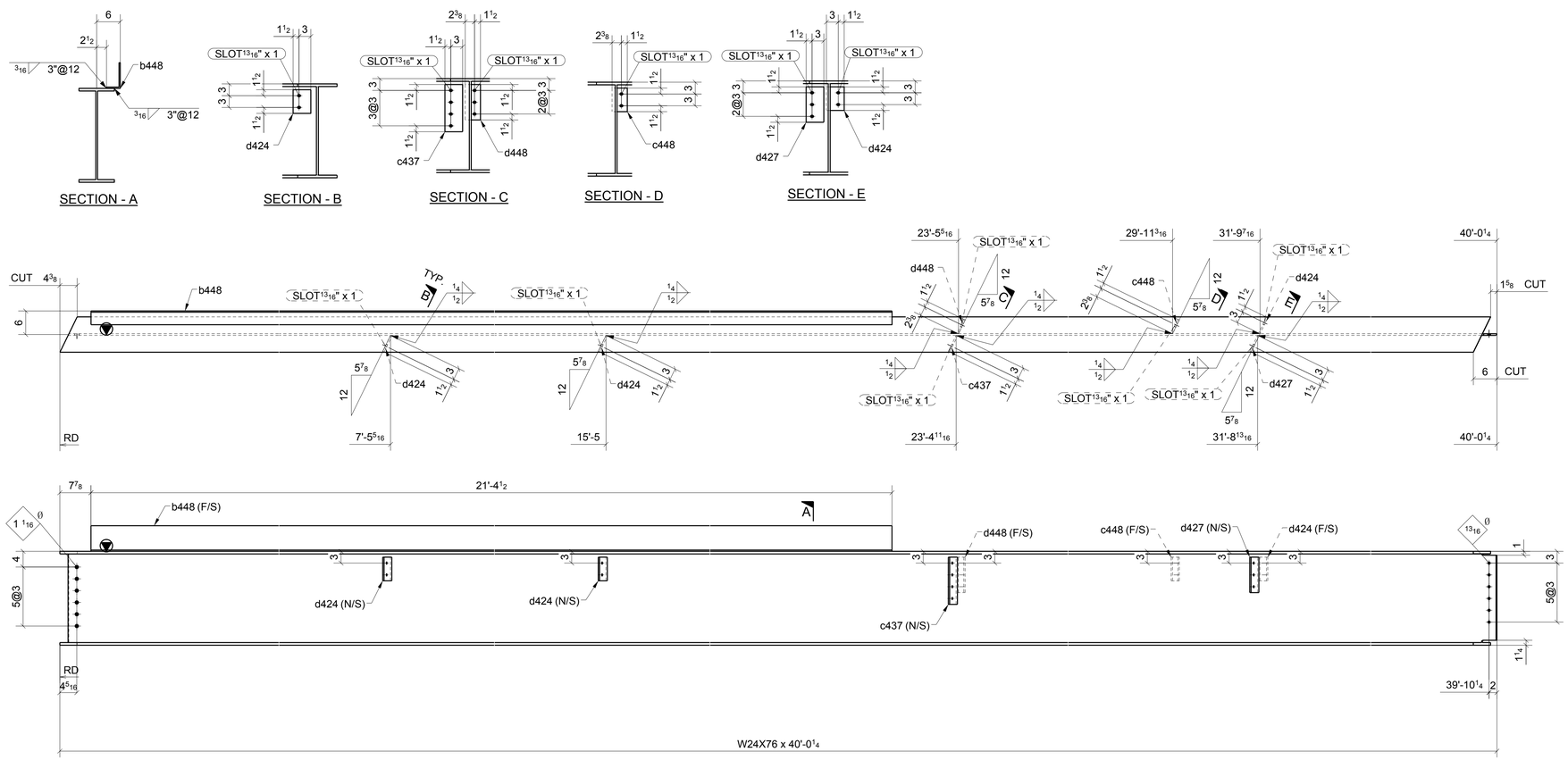
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 447



ONE - BEAM ~ 448A

LOCATION:
ONE @ 2-3/A.5-B.3

(REF: E4A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	448A	W24X76	40'-0 1/4"	A992	
1	b448	PL5/16"X10"	21'-4 1/2"	A36	
1	c437	PL3/8"X4 1/2"	1'-0"	A36	
1	c448	PL3/8"X3 7/8"	0'-6"	A36	
3	d424	PL3/8"X4 1/2"	0'-6"	A36	
1	d427	PL3/8"X4 1/2"	0'-9"	A36	
1	d448	PL3/8"X3 7/8"	0'-9"	A36	

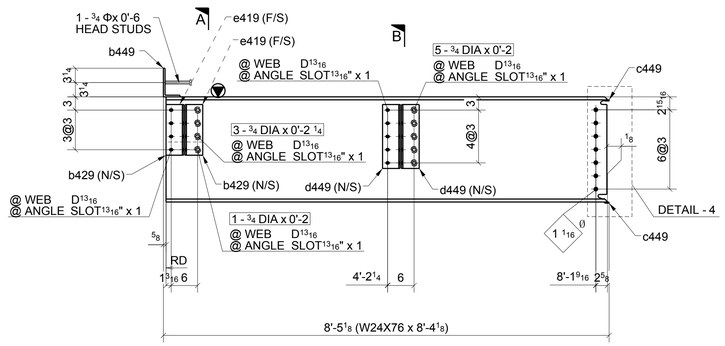
Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

ATLAS IRON WORKS
ST. LOUIS, MO.

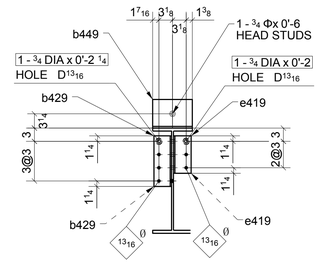
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 448

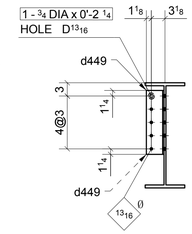


ONE - BEAM ~ 449A

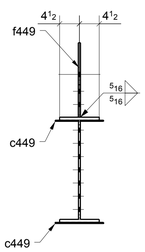
LOCATION: (REF: E4A)
ONE @ 5/B-B.3



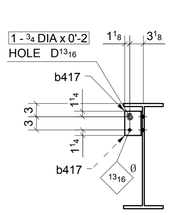
SECTION - A



SECTION - B



SECTION - C



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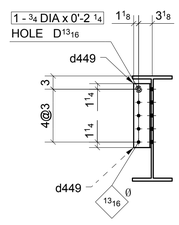

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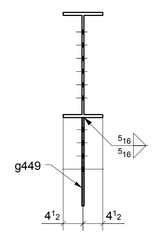
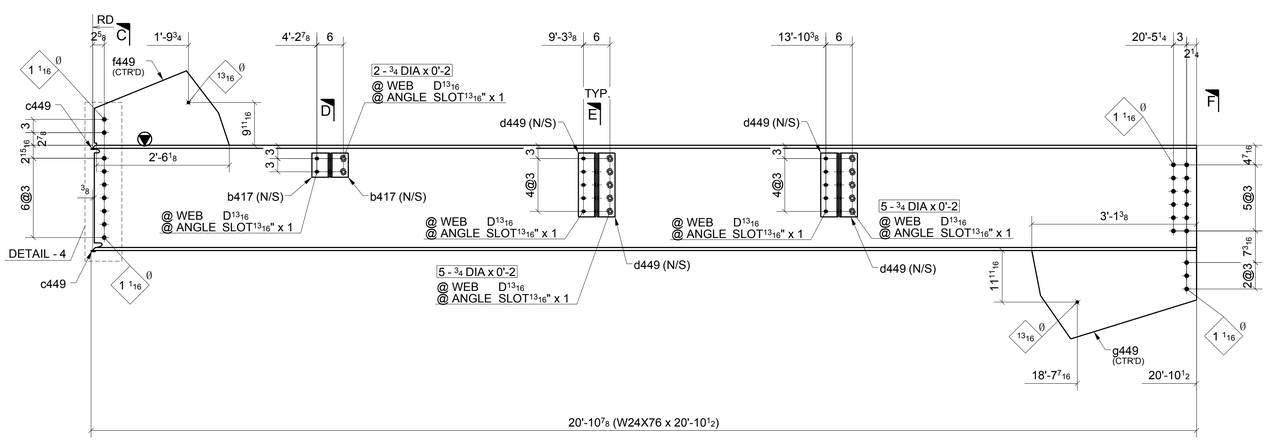


SECTION - F



ONE - BEAM ~ 449B

LOCATION: (REF: E4A)
ONE @ 5/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	449A	W24X76	8'-4 1/8"	A992	
2	b429	L4X4X5/16	0'-11 1/2"	A36	
1	b449	BPL3/8"X9"	0'-10 1/4"	A36	
2	c449	PL1/4"X1"	0'-11"	A36	
2	d449	L4X4X5/16	1'-2 1/2"	A36	
2	e419	L4X4X5/16	0'-8 1/2"	A36	
5		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" STUD	0'-6"		
1	449B	W24X76	20'-10 1/2"	A992	
2	b417	L4X4X5/16	0'-5 1/2"	A36	
2	c449	PL1/4"X1"	0'-11"	A36	
4	d449	L4X4X5/16	1'-2 1/2"	A36	
1	f449	PL1/2"X16 7/8"	2'-6 5/8"	A572-GR.50	
1	g449	PL1/2"X20 1/16"	3'-1 3/8"	A572-GR.50	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
10		3/4" DIA. W/N&W	0'-2"	A325N_TC	

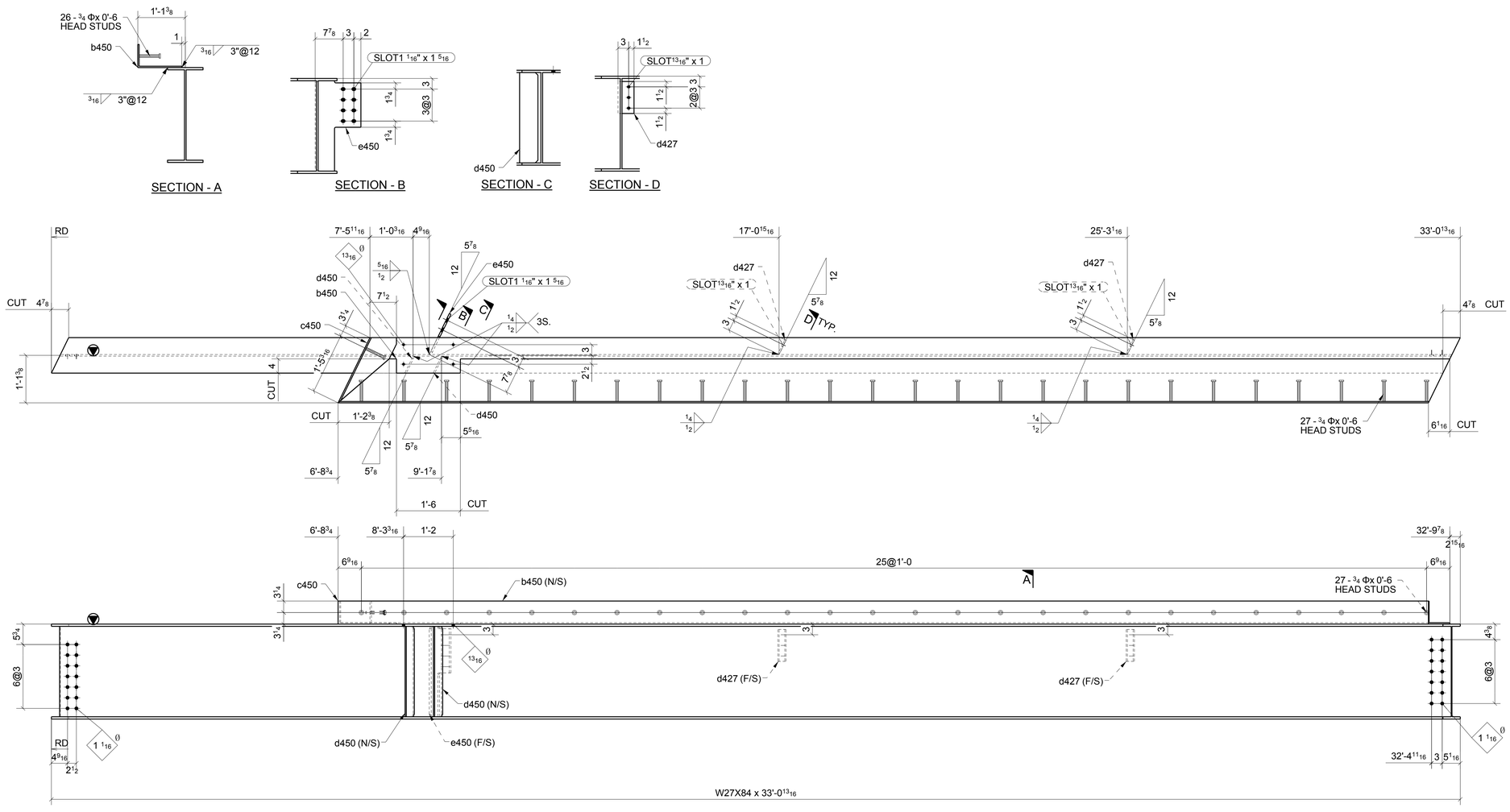
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 449



ONE - BEAM ~ 450A

LOCATION: (REF: E4A)
ONE @ 1.6-1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	450A	W27X84	33'-0 13/16"	A992	
1	b450	BPL3/8"X18 7/8"	26'-1 1/8"	A36	
1	c450	BPL3/8"X14"	2'-0 1/8"	A36	
2	d427	PL3/8"X4 1/2"	0'-9"	A36	
2	d450	PL3/8"X5 3/16"	2'-1 1/2"	A36	
1	e450	PL1/2"X12 7/8"	2'-1 1/2"	A572-GR.50	
1		3/4" STUD	0'-6"		
26		3/4" STUD	0'-6"		

FOR APPROVAL

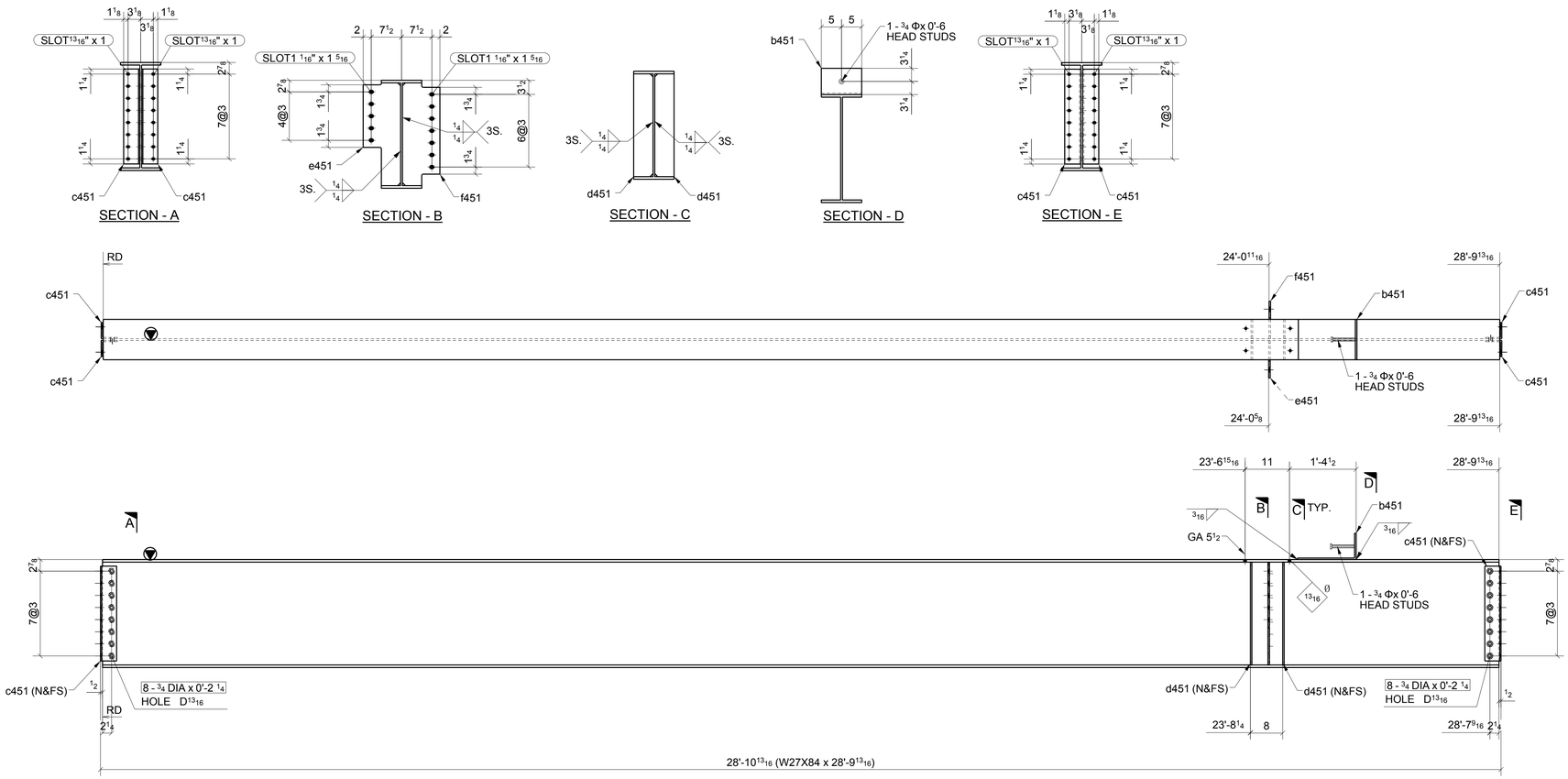
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 450



ONE - BEAM ~ 451A

LOCATION: (REF: E4A)
ONE @ 2/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	451A	W27X84	28'-9 13/16"	A992	
1	b451	BPL3/8"X10"	1'-9"	A36	
4	c451	L4X4X5/16	1'-11 1/2"	A36	
4	d451	PL3/8"X4 3/4"	2'-1 1/2"	A36	
1	e451	PL3/8"X9 5/16"	2'-1 1/2"	A36	
1	f451	PL3/8"X9 5/16"	2'-1 1/2"	A36	
16		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
1		3/4" STUD	0'-6"		

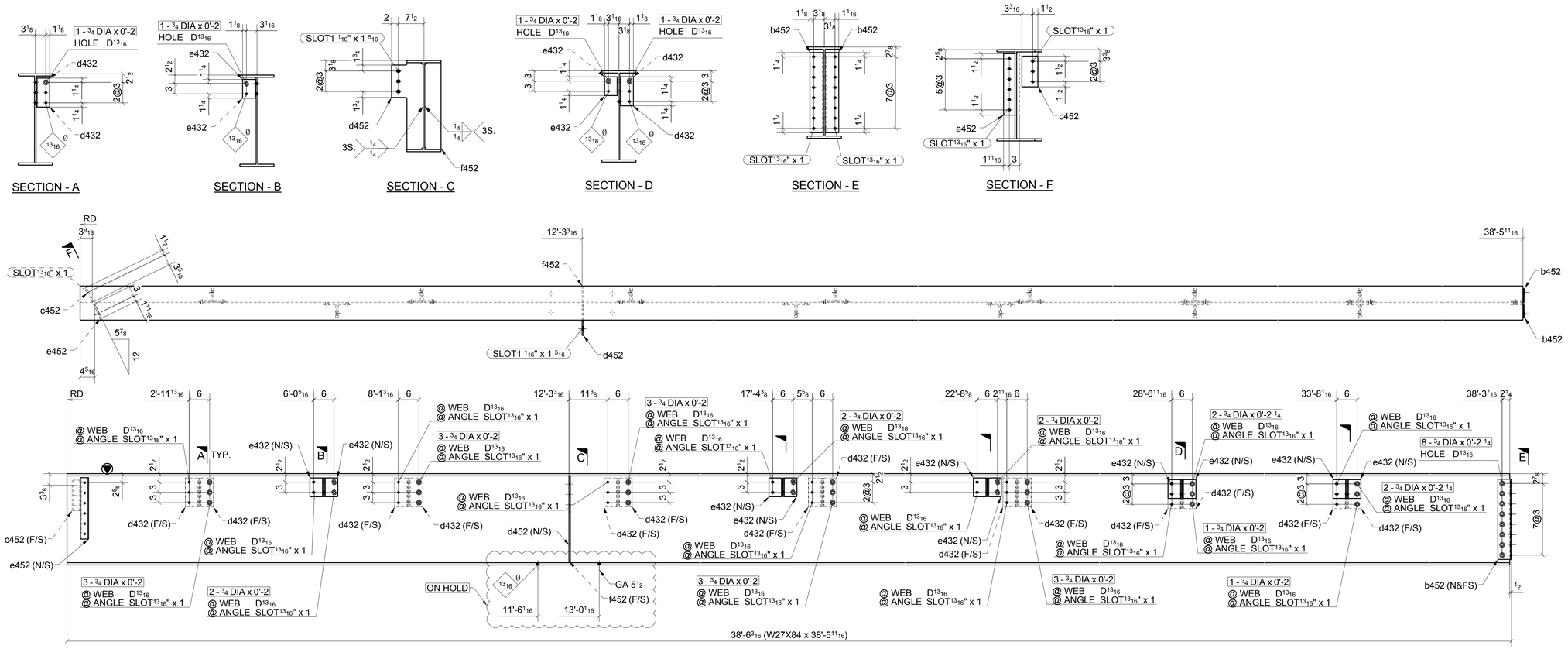
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 451



ONE - BEAM ~ 452A

LOCATION:
ONE @ 1.6/4-A.5

(REF: E4A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

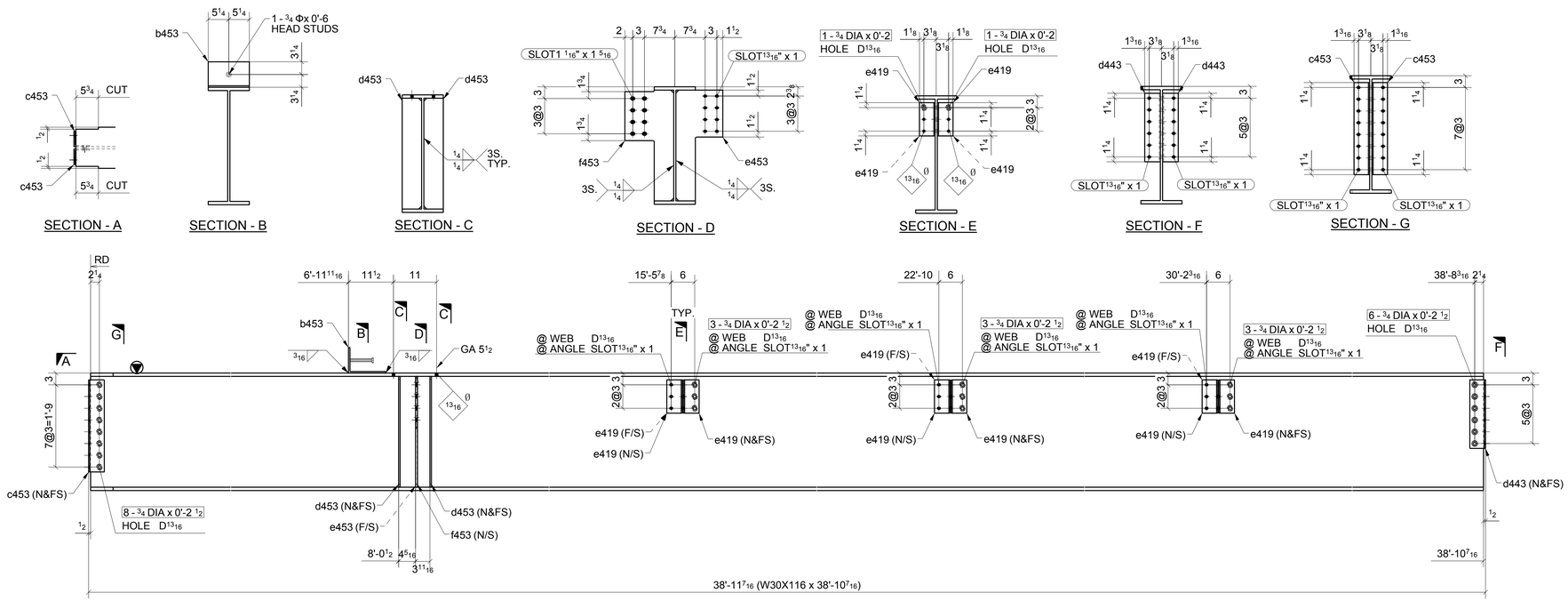
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	452A	W27X84	38'-5 11/16"	A992	
2	b452	L4X4X5/16	1'-11 1/2"	A36	
1	c452	PL3/8"X4 11/16"	0'-9"	A36	
14	d432	L4X4X5/16	0'-8 1/2"	A36	
1	d452	PL3/8"X9 1/4"	2'-1 1/2"	A36	
10	e432	L4X4X5/16	0'-5 1/2"	A36	
1	e452	PL3/8"X4 11/16"	1'-6"	A36	
1	f452	PL3/8"X4 3/4"	2'-1 1/2"	A36	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
14		3/4" DIA. W/N&W	0'-2"	A325N_TC	
15		3/4" DIA. W/N&W	0'-2"	A325N_TC	

Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 452



ONE - BEAM ~ 453A

LOCATION: (REF: E4A)
ONE @ 1.6-2/A.5

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	453A	W30X116	38'-10 3/8"	A992	
1	b453	BPL3/8"X10 1/2"	1'-4"	A36	
2	c453	L4X4X5/16	1'-11 1/2"	A36	
2	d443	L4X4X5/16	1'-5 1/2"	A36	
4	d453	PL3/8"X5"	2'-4 5/16"	A36	
12	e419	L4X4X5/16	0'-8 1/2"	A36	
1	e453	PL3/8"X12"	2'-4 5/16"	A36	
1	f453	PL1/2"X12 1/2"	2'-4 5/16"	A572-GR.50	
8		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
1		3/4" STUD	0'-6"		

FOR APPROVAL

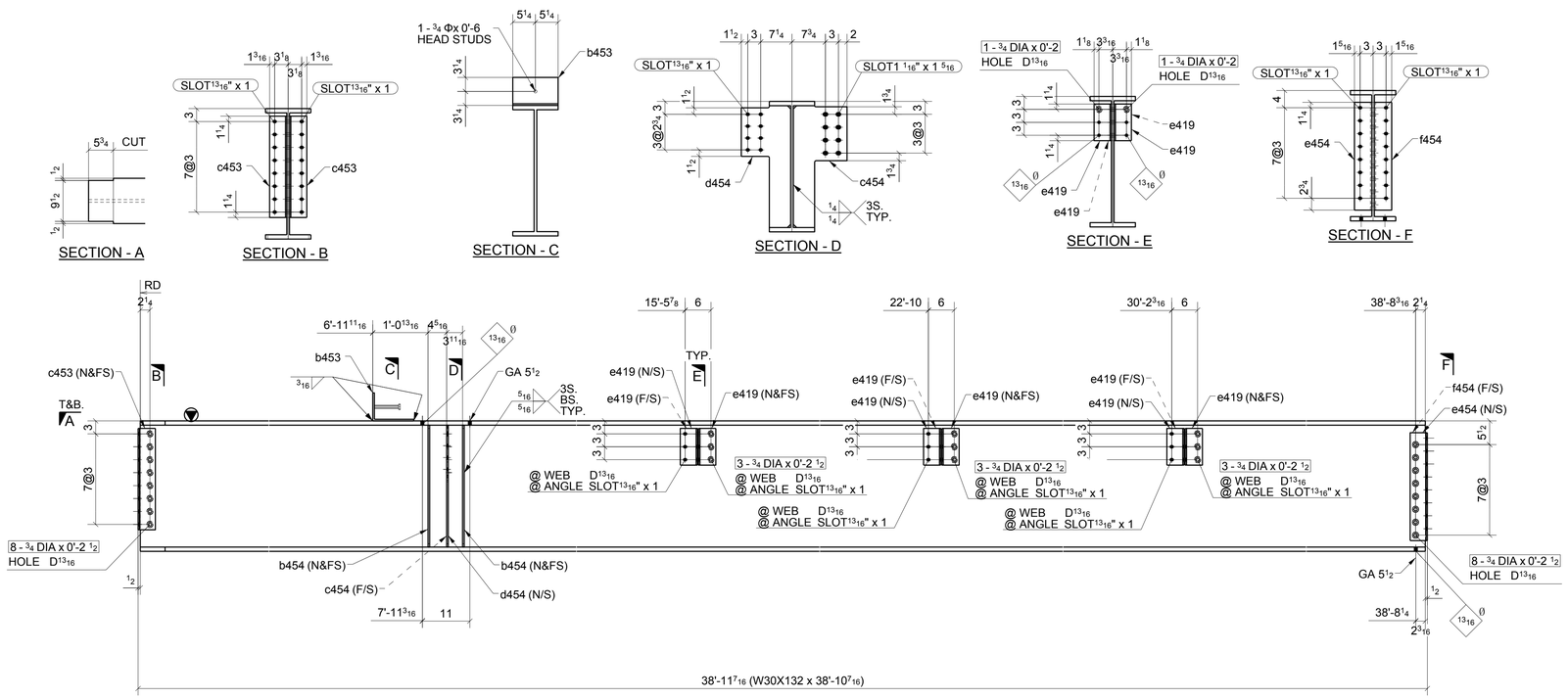
SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 453



ONE - BEAM ~ 454A

LOCATION: (REF: E4A)
ONE @ 1.6-2/B.3

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	454A	W30X132	38'-10 3/8"	A992	
1	b453	BPL3/8"X10 1/2"	1'-4"	A36	
4	b454	PL3/8"X4 15/16"	2'-4 1/4"	A36	
2	c453	L4X4X5/16	1'-11 1/2"	A36	
1	c454	PL3/8"X12 7/16"	2'-4 1/4"	A36	
1	d454	PL3/8"X11 7/16"	2'-4 1/4"	A36	
12	e419	L4X4X5/16	0'-8 1/2"	A36	
1	e454	L4X4X5/16	2'-1"	A36	
1	f454	L4X4X5/16	2'-1"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
16		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
1		3/4" STUD	0'-6"		

FOR APPROVAL

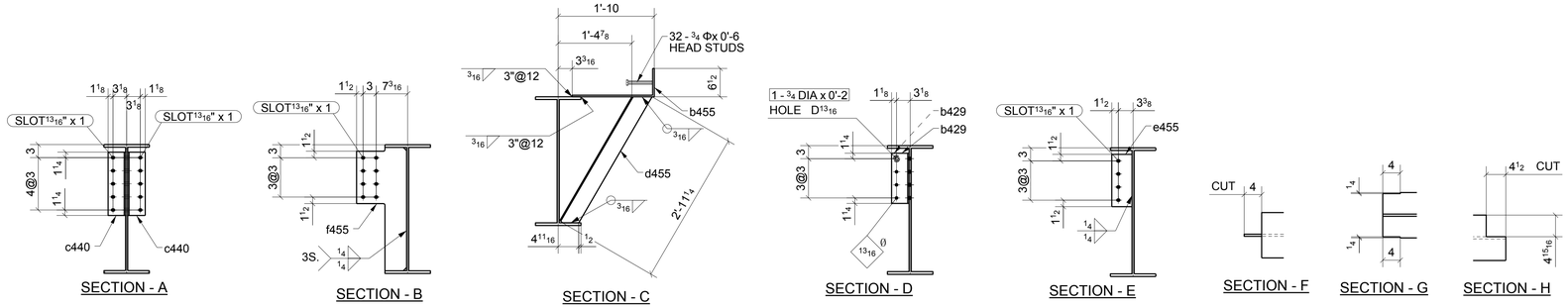
SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

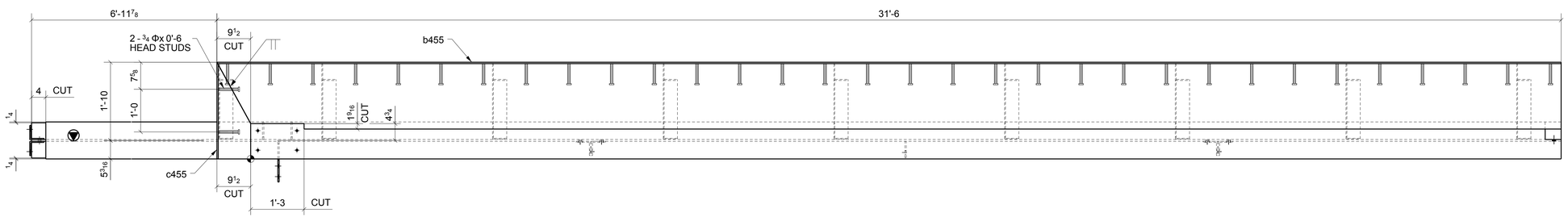
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

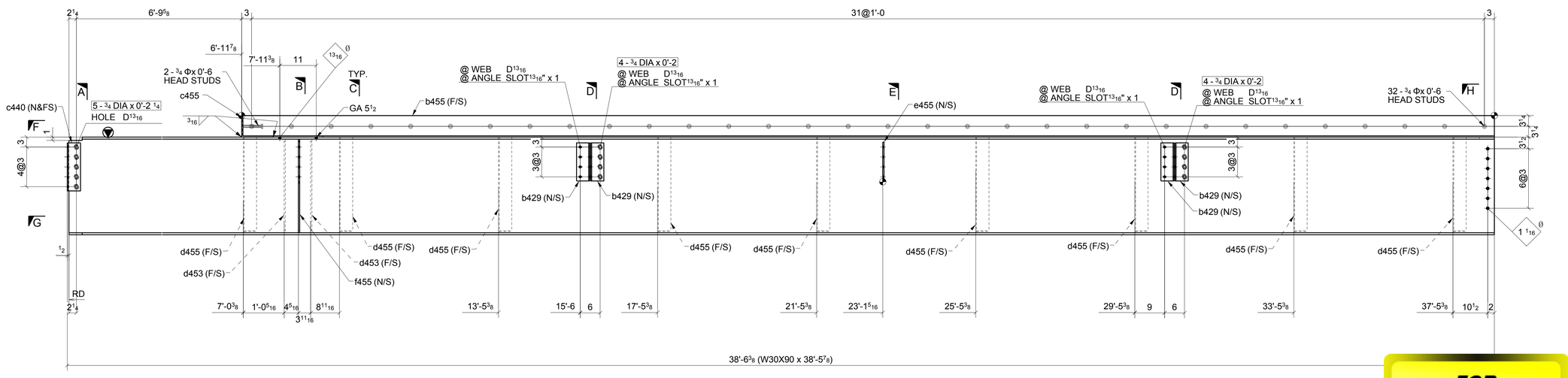
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 454







ONE - BEAM ~ 455A

LOCATION: (REF: E4A)
ONE @ 1.6-2/C.2

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

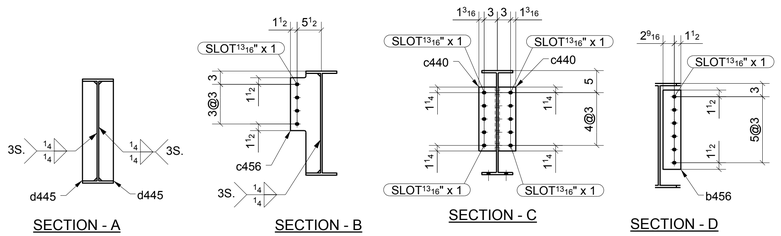
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	455A	W30X90	38'-5 13/16"	A992	
4	b429	L4X4X5/16	0'-11 1/2"	A36	
1	b455	BPL3/8"X25 5/16"	31'-6"	A36	
2	c440	L4X4X5/16	1'-2 1/2"	A36	
1	c455	BPL3/8"X16"	2'-3 3/16"	A36	
2	d453	PL3/8"X4 15/16"	2'-4 1/4"	A36	
9	d455	L4X4X1/4	2'-11 1/4"	A36	
1	e455	PL3/8"X4 5/8"	1'-0"	A36	
1	f455	PL3/8"X11 7/16"	2'-4 1/4"	A36	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" STUD	0'-6"		
32		3/4" STUD	0'-6"		

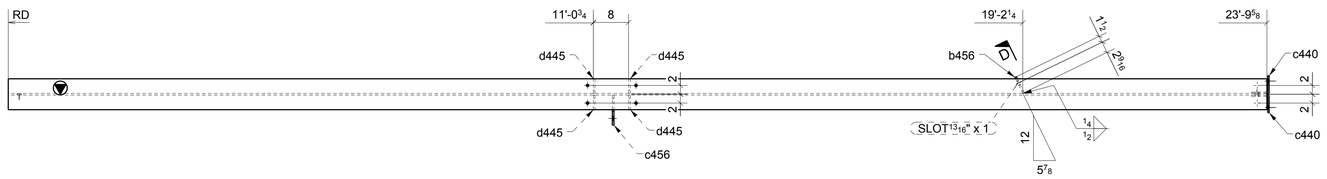
Romac By: Checked By:
Beamline By: Checked By:

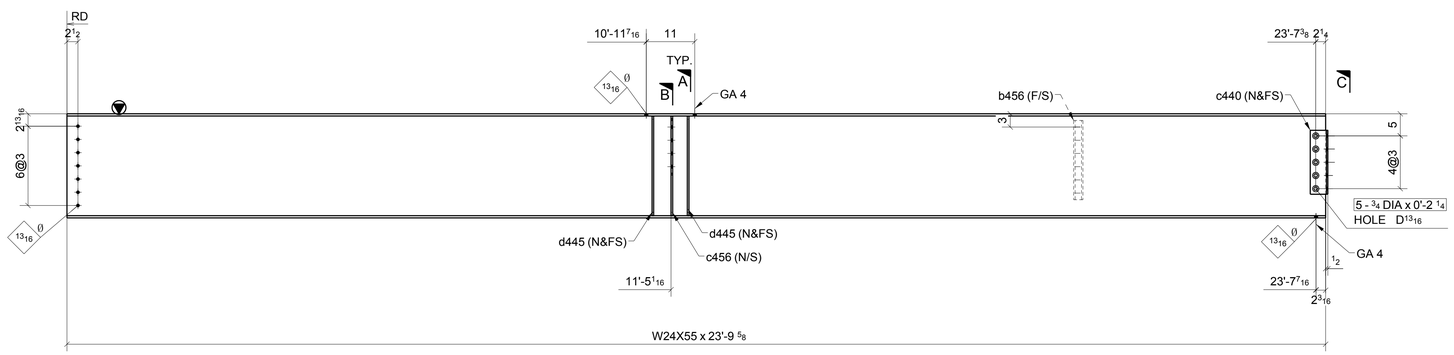
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 455







ONE - BEAM ~ 456A

LOCATION:
ONE @ 3/A.5-B.3

(REF: E4A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	456A	W24X55	23'-9 5/8"	A992	
1	b456	PL3/8"X4 1/16"	1'-6"	A36	
2	c440	L4X4X5/16	1'-2 1/2"	A36	
1	c456	PL3/8"X6 13/16"	1'-10 5/8"	A36	
4	d445	PL3/8"X3 5/16"	1'-10 5/8"	A36	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

Romac By: _____ Checked By: _____

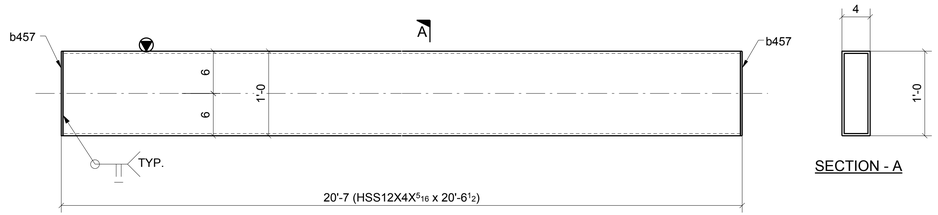
Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: _____ COLOR: _____

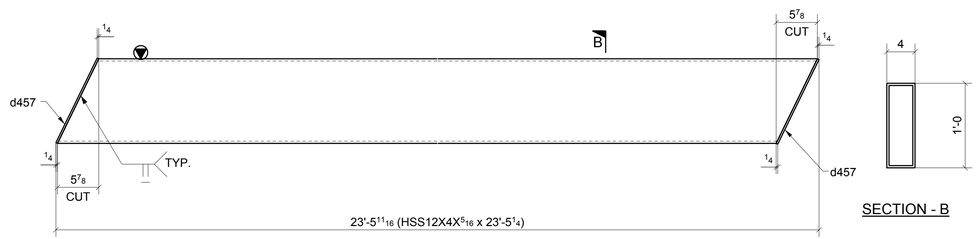
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: _____ DWG#: 456



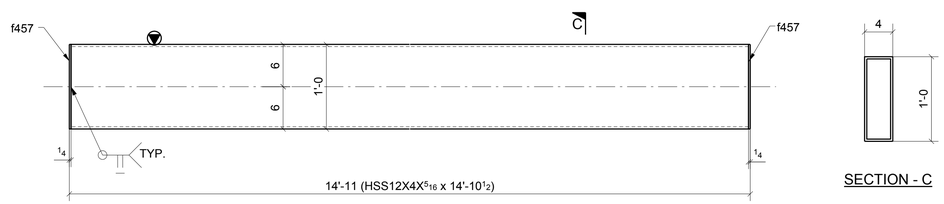
ONE - BEAM ~ 457A

LOCATION: (REF: E4A)
ONE @ 2-2.6/C.3



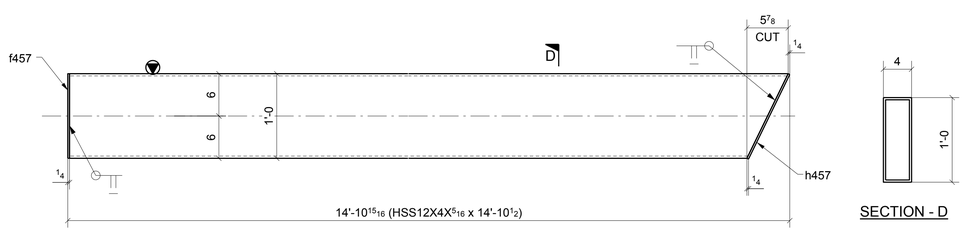
ONE - BEAM ~ 457B

LOCATION: (REF: E4A)
ONE @ 2-2.6/4-A.5



ONE - BEAM ~ 457C

LOCATION: (REF: E4A)
ONE @ 1.7-2/C.3



ONE - BEAM ~ 457D

LOCATION: (REF: E4A)
ONE @ 1.7-2/4-A.5

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	457A	HSS12X4X5/16	20'-6 1/2"	A500-GR.B-	
2	b457	PL1/4"X4"	1'-0"	A36	
1	457B	HSS12X4X5/16	23'-5 1/4"	A500-GR.B-	
2	d457	PL1/4"X4"	1'-1 3/8"	A36	
1	457C	HSS12X4X5/16	14'-10 1/2"	A500-GR.B-	
2	f457	PL1/4"X4"	1'-0"	A36	
1	457D	HSS12X4X5/16	14'-10 1/2"	A500-GR.B-	
1	f457	PL1/4"X4"	1'-0"	A36	
1	h457	PL1/4"X4"	1'-1 3/8"	A36	

FOR APPROVAL

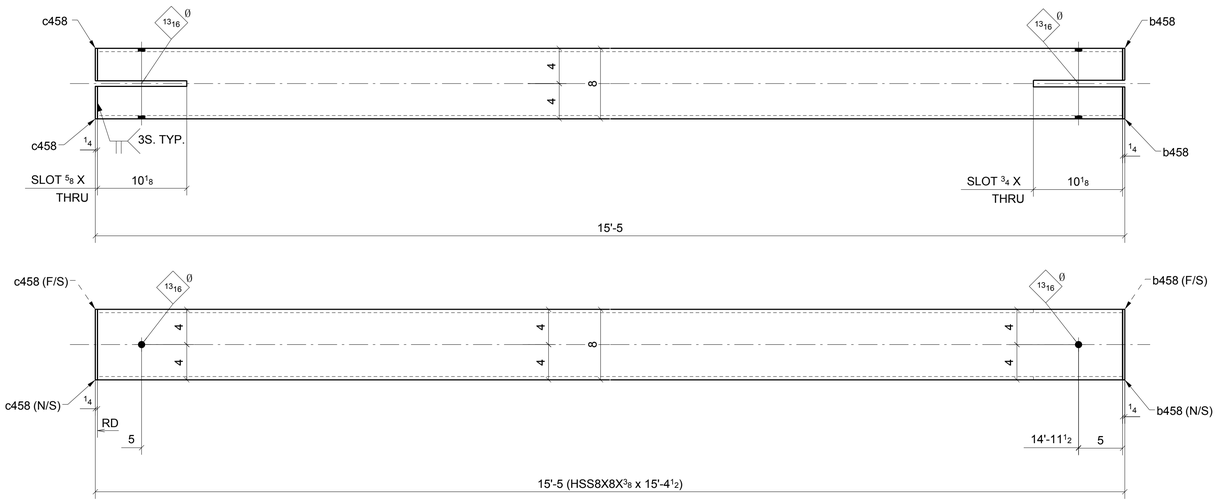
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

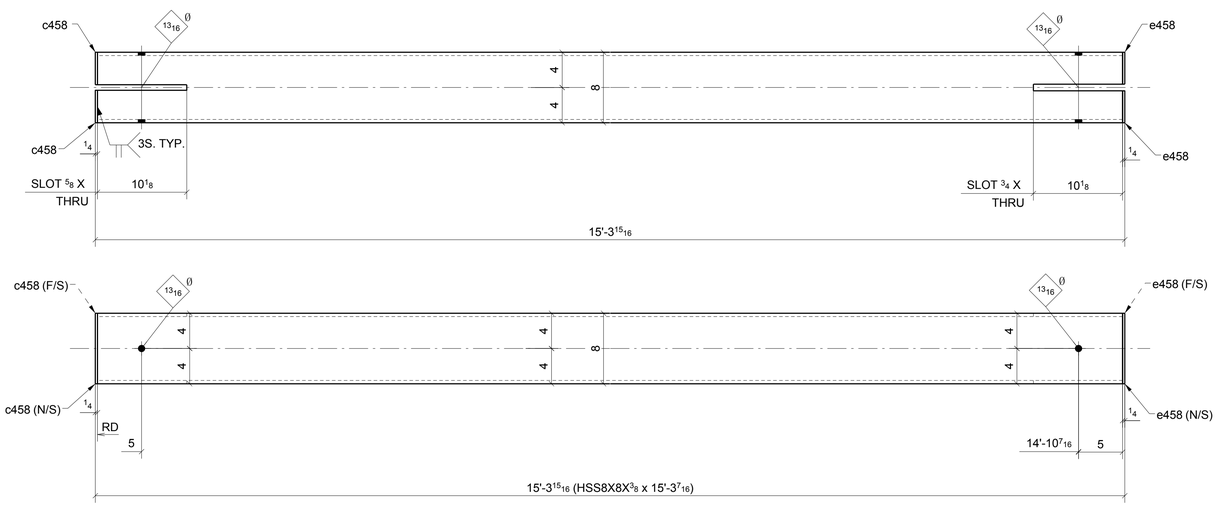
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016
Job No. A16013 BAT: DWG#: 457



2 - VERTICAL BRACES ~ 458A

(REF: E4A)



ONE - VERTICAL BRACE ~ 458B

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	458A	HSS8X8X3/8	15'-4 1/2"	A500-GR.B-	
4	b458	PL1/4"X3 5/8"	0'-8"	A36	
4	c458	PL1/4"X3 11/16"	0'-8"	A36	
1	458B	HSS8X8X3/8	15'-3 7/16"	A500-GR.B-	
2	c458	PL1/4"X3 11/16"	0'-8"	A36	
2	e458	PL1/4"X3 5/8"	0'-8"	A36	

FOR APPROVAL

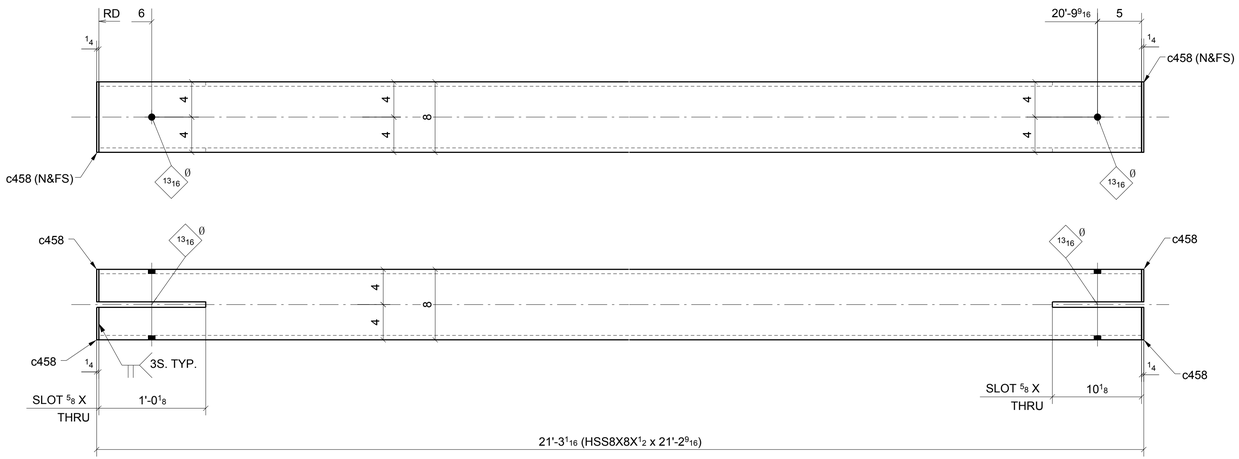
A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

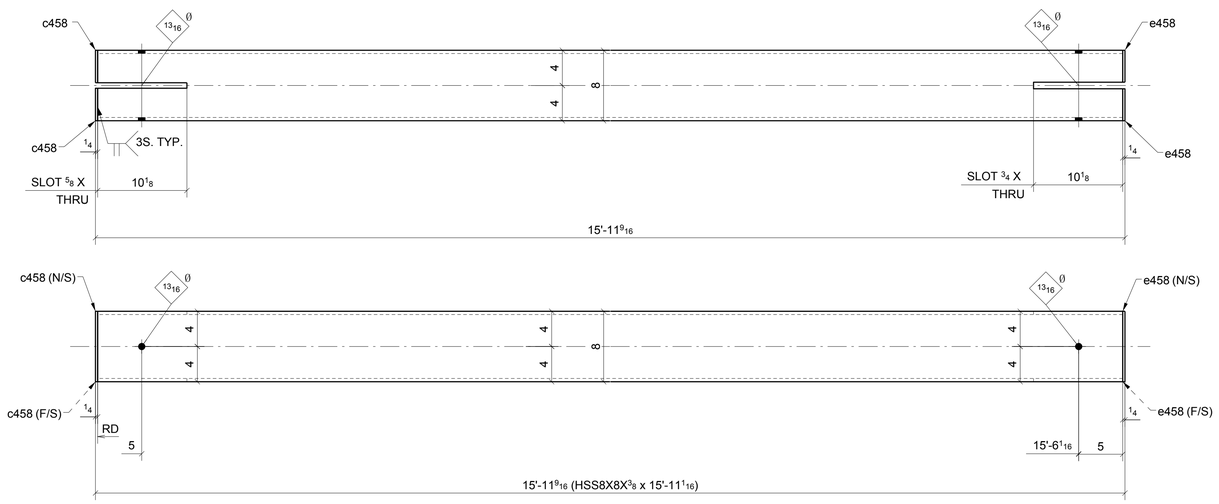
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: ZZ	Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No.	A16013 BAT: DWG#: 458



ONE - VERTICAL BRACE ~ 459A

(REF: E4A)



ONE - VERTICAL BRACE ~ 459B

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	459A	HSS8X8X1/2	21'-2 9/16"	A500-GR.B-	
4	c458	PL1/4"X3 11/16"	0'-8"	A36	
1	459B	HSS8X8X3/8	15'-11 1/16"	A500-GR.B-	
2	c458	PL1/4"X3 11/16"	0'-8"	A36	
2	e458	PL1/4"X3 5/8"	0'-8"	A36	

FOR APPROVAL

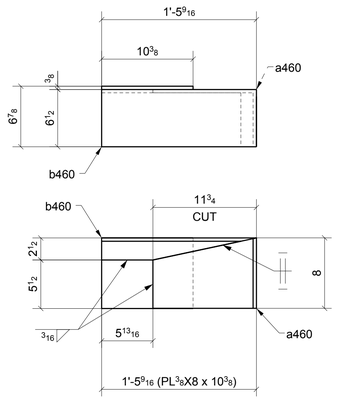
A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

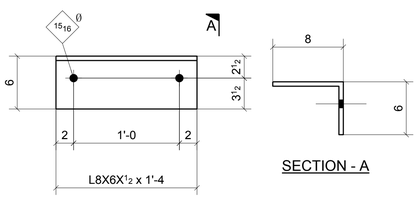
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/10/2016
Job No. A16013 BAT: DWG#: 459



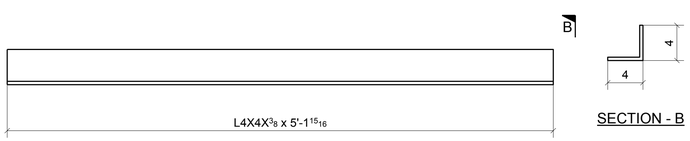
ONE - ANGLE ~ 460A

(REF: E4A)



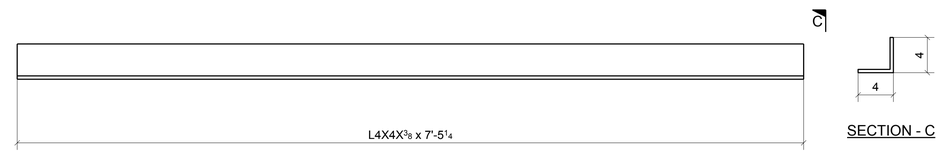
14 - ANGLES ~ 460B

(REF: E4A)



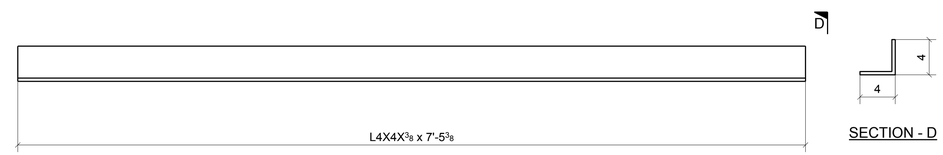
8 - ANGLES ~ 460C

(REF: E4A)



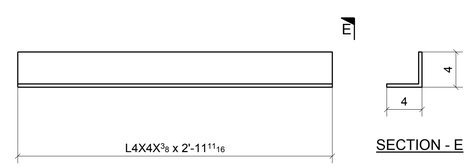
6 - ANGLES ~ 460D

(REF: E4A)



12 - ANGLES ~ 460F

(REF: E4A)



6 - ANGLES ~ 460H

(REF: E4A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	460A	PL3/8"X8"	0'-10 3/8"	A36	
1	a460	BPL3/8"X8"	1'-6 1/4"	A36	
1	b460	BPL3/8"X9"	1'-5 13/16"	A36	
14	460B	L8X6X1/2	1'-4"	A36	
8	460C	L4X4X3/8	5'-1 15/16"	A36	
6	460D	L4X4X3/8	7'-5 1/4"	A36	
12	460F	L4X4X3/8	7'-5 3/8"	A36	
6	460H	L4X4X3/8	2'-11 11/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL		06/15/16
Sequence:	4	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

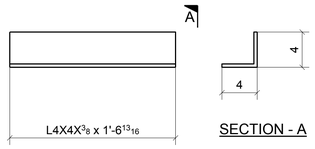
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

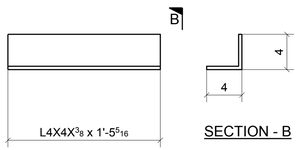
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016

Job No. A16013 BAT: DWG#: 460



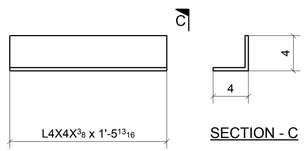
2 - ANGLES ~ 461A

(REF: E4A)



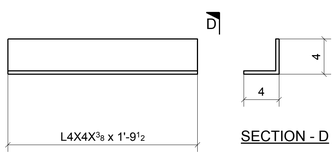
2 - ANGLES ~ 461B

(REF: E4A)



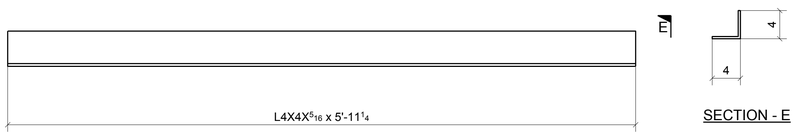
ONE - ANGLE ~ 461C

(REF: E4A)



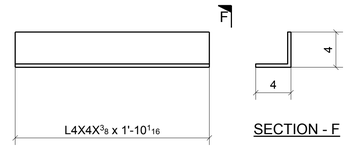
ONE - ANGLE ~ 461D

(REF: E4A)



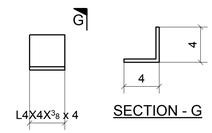
2 - ANGLES ~ 461F

(REF: E4A)



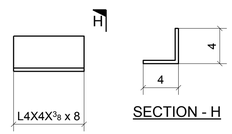
ONE - ANGLE ~ 461H

(REF: E4A)



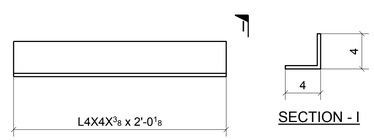
4 - ANGLES ~ 461K

(REF: E4A)



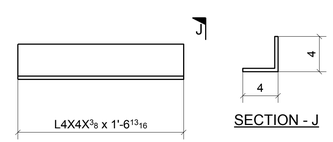
4 - ANGLES ~ 461M

(REF: E4A)



2 - ANGLES ~ 461P

(REF: E4A)



2 - ANGLES ~ 461T

(REF: E4A)

FOR APPROVAL

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

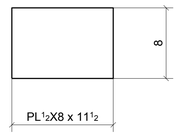
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	461A	L4X4X3/8	1'-6 13/16"	A36	
2	461B	L4X4X3/8	1'-5 5/16"	A36	
1	461C	L4X4X3/8	1'-5 13/16"	A36	
1	461D	L4X4X3/8	1'-9 1/2"	A36	
2	461F	L4X4X5/16	5'-11 1/4"	A36	
1	461H	L4X4X3/8	1'-10 1/16"	A36	
4	461K	L4X4X3/8	0'-4"	A36	
4	461M	L4X4X3/8	0'-8"	A36	
2	461P	L4X4X3/8	2'-0 1/8"	A36	
2	461T	L4X4X3/8	1'-6 13/16"	A36	

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/15/2016
Job No. A16013 BAT: DWG#: 461



ONE - PLATE ~ 462A

(REF: E4A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	462A	PL1/2"X8"	0'-11 1/2"	A36	

FOR APPROVAL

A	FOR APPROVAL	06/15/16

Sequence: 4 Ref. E-Plans: –

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS

ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/09/2016 Ckd: LJ Date: 06/14/2016

Job No. A16013 BAT: DWG#: 462

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

051200-020
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

051200
SPECIFICATION SECTION / PARAGRAPH

Atlas Iron
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- (•) Shop Drawings
- ( ) Samples (_____ copies)
- ( ) LEED Submittal
- ( ) Certification / Qualifications
- ( ) Record Documents
- ( ) Product Data
- ( ) Coordination Drawing
- ( ) Calculations
- ( ) Schedules
- ( ) O&M Manuals
- ( ) Other _____

ITEM BEING SUBMITTED FOR (check only one)

- (•) Action
- ( ) Information Only
- ( ) Record

REMARKS OR DEVIATIONS

IT IS THE RESPONSIBILITY OF THE FABRICATOR TO COORDINATE THE CONNECTION DESIGN CALCULATIONS WITH THE STEEL SHOP DRAWINGS.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

6/20/16
DATE

To be completed by Reviewer

05 1200-020
CANNON DESIGN SUBMITTAL NUMBER

6/21/16
RECEIVED DATE

( ) A. No Exceptions Taken
No further review of submittal is required.

( ) B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.

( ) C. Revise and Resubmit
Revise as noted, and resubmit for review.

( ) D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.

( ) E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.

( ) F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

( ) See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW

- [ ] NO EXCEPTION TAKEN
- [x] EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
- [ ] REJECTED
- [ ] REVIEWED FOR INFORMATION ONLY
- [ ] REVISE AND RESUBMIT AS NOTED

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.

DAVID MASON & ASSOCIATES, INC.

REVIEW BY: JYW DATE: 06/28/2016

REVIEWED BY

DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0096

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/20/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Webster Seq 4 Steel

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☑ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☐ Other:	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		051200-020	1		06/20/2016	Webster Seq 4 Steel	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates