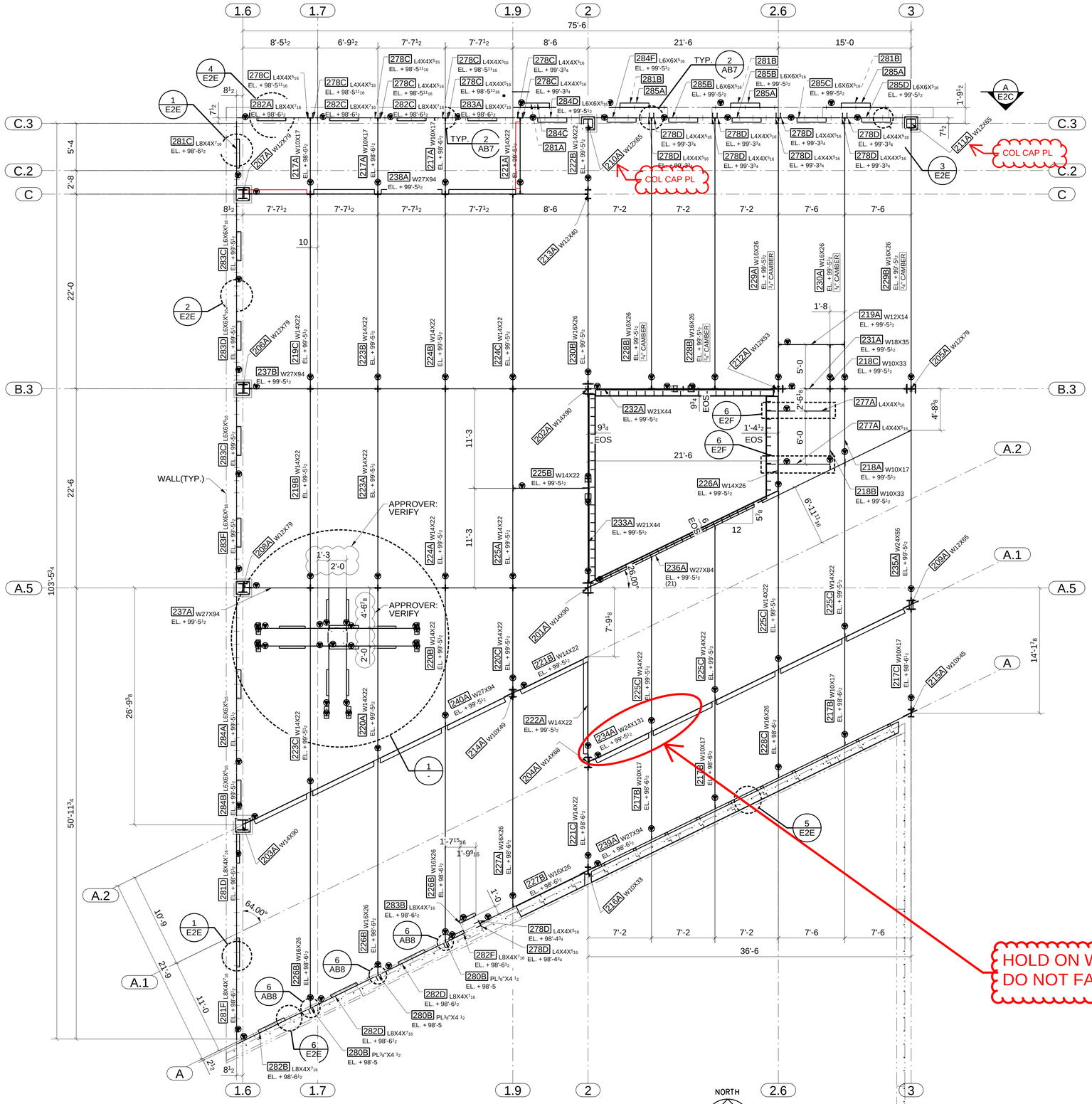
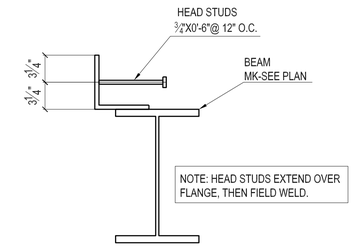
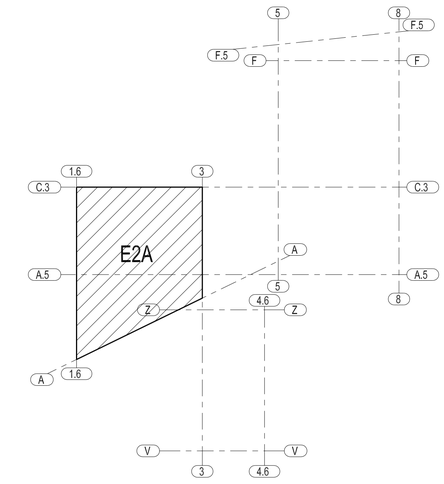


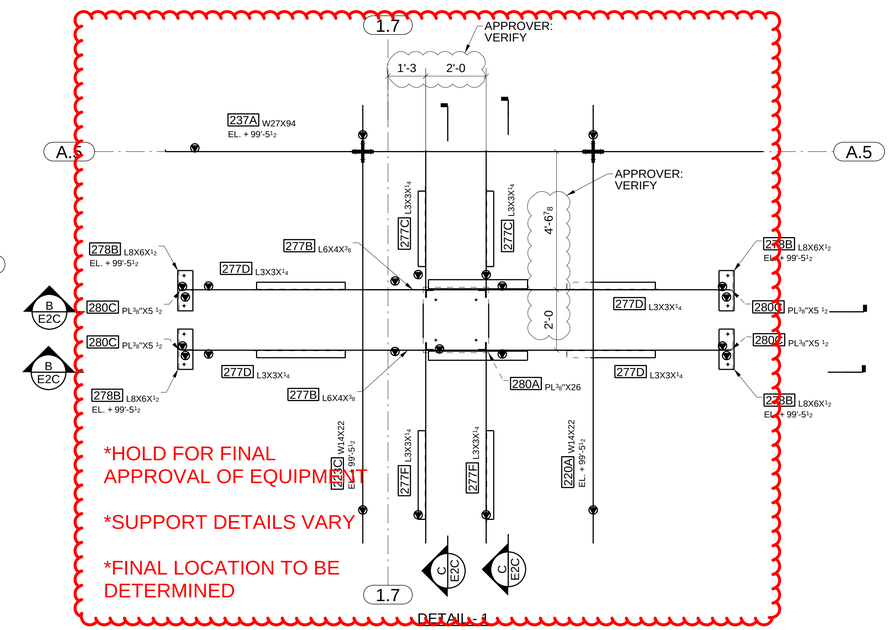
LEVEL 02 FLOOR FRAMING PLAN SEQ2
REF: S0103



HEAD STUDS FIELD WELD DETAIL



KEY PLAN AT 99'-5 1/2"



DETAIL - 1

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.

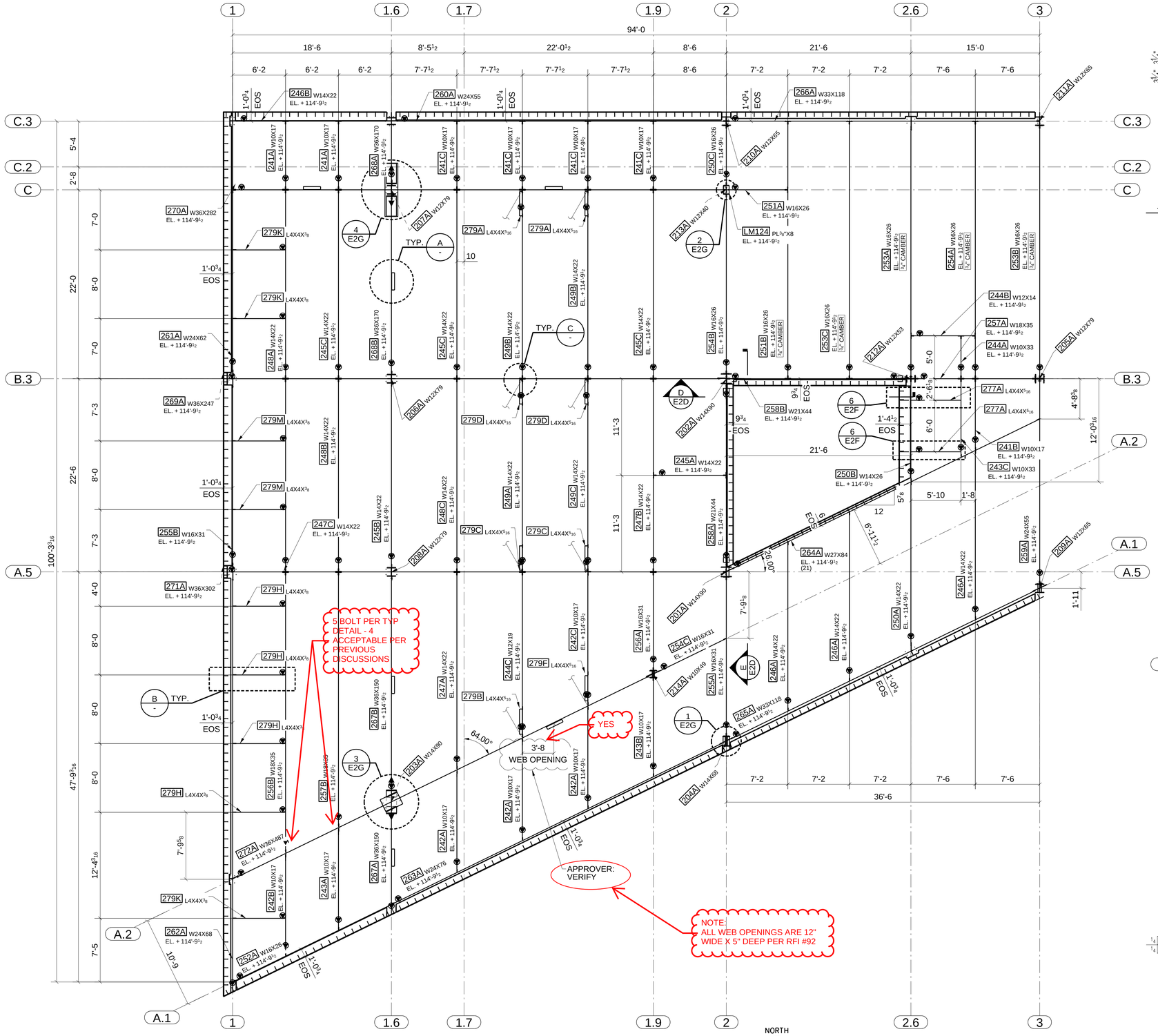
#3, U.N.O.(——►) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

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

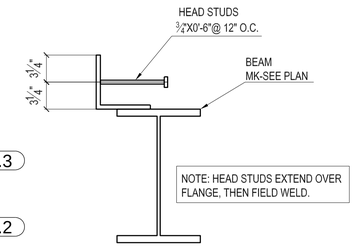
A	FOR APPROVAL	05/30/16	

ATLAS IRON WORKS
ST. LOUIS, MO.

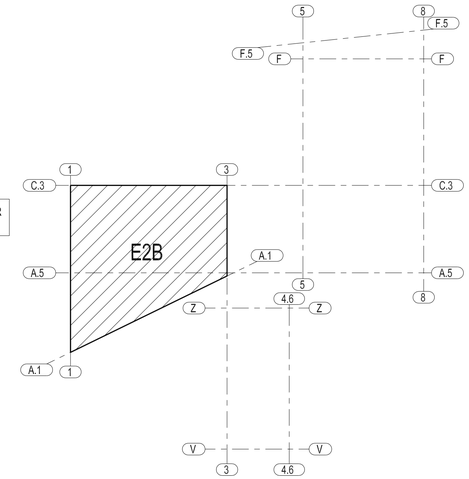
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: TLI	Date: 05/23/2016	Ckd: LJ	Date: 05/30/2016		
Job No. A16013	BAT:	DWG#: E2A			



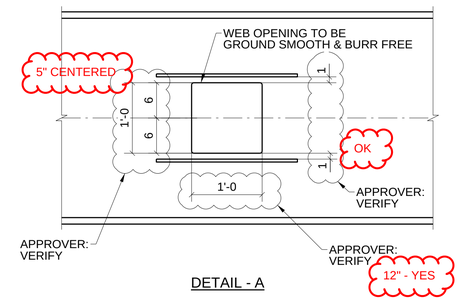
LEVEL 03 FLOOR FRAMING PLAN SEQ2
REF: S0104



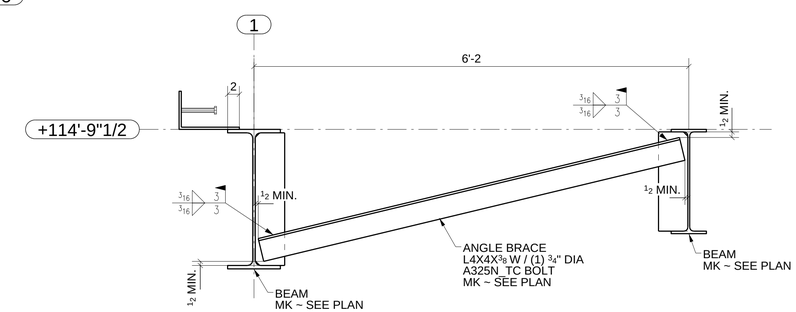
HEAD STUDS FIELD WELD DETAIL



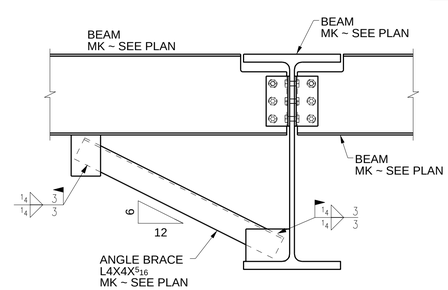
KEY PLAN AT 114'-9 1/2"



DETAIL - A



DETAIL - B



DETAIL - C

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.

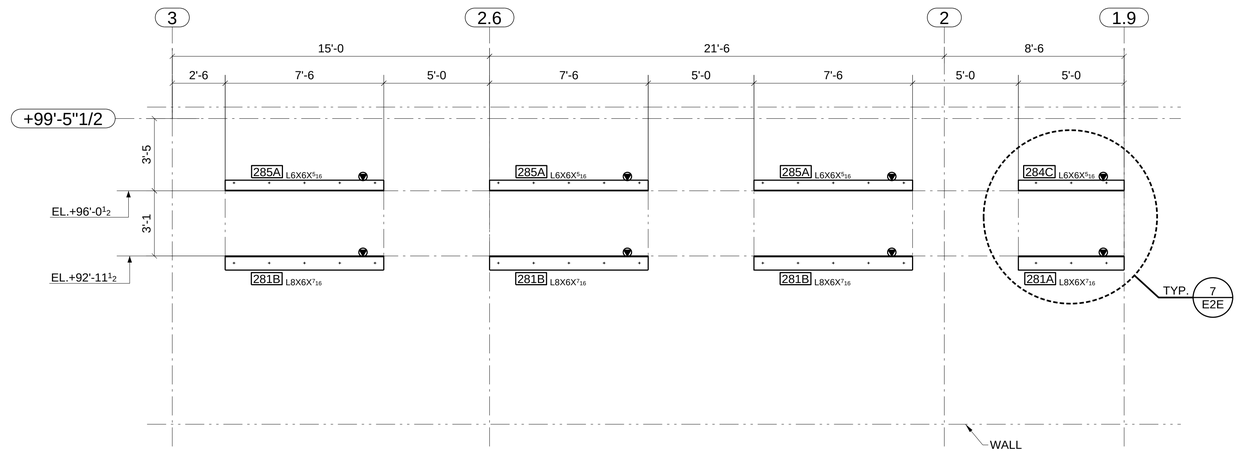
#3, U.N.O.(⟶) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

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

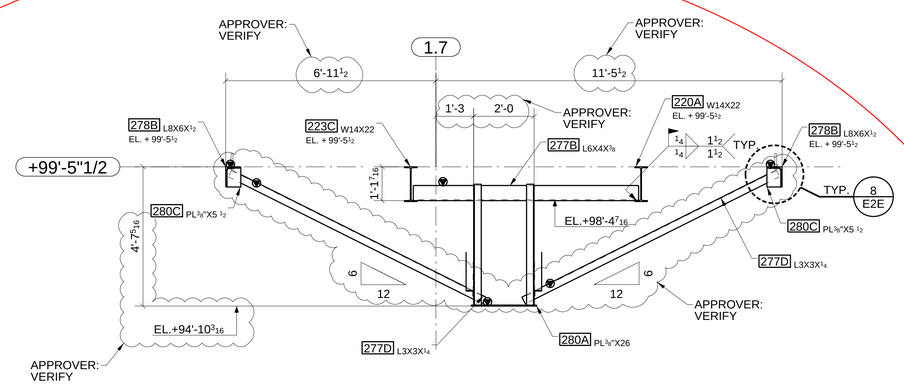
A	FOR APPROVAL	05/30/16	

ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: TLI	Date: 05/23/2016	Ckd: LJ	Date: 05/30/2016		
Job No.	A16013	BAT:	DWG#: E2B		

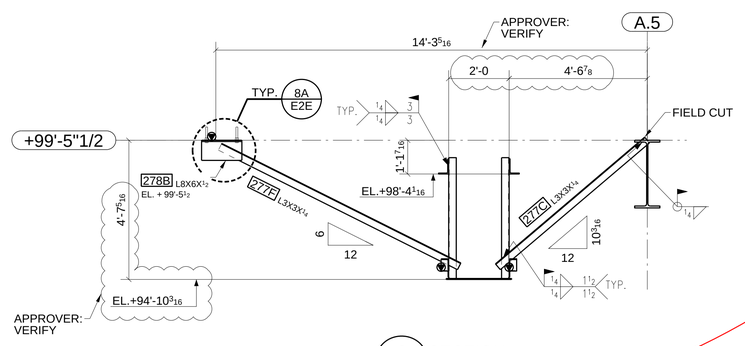


A SECTION
E2A



B SECTION
E2A

HOLD



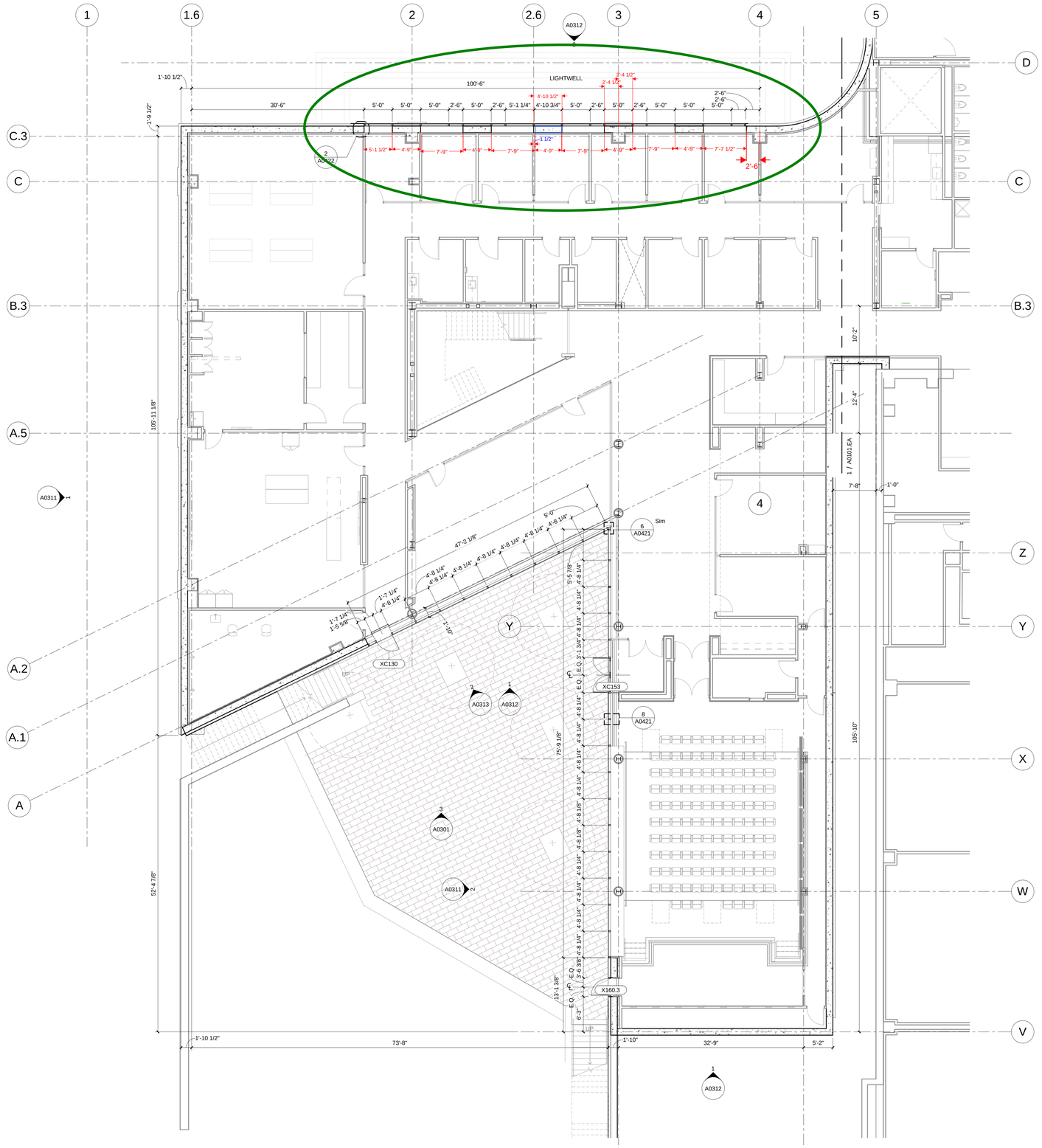
C SECTION
E2A

SEE COMMENTS ATTACHED FOR WINDOW OPENINGS PER CANNON 6/27/2016

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: TLI Date: 05/24/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: E2C



1 LEVEL 01 AREA B FLOOR PLAN
1/8" = 1'-0"

NORTH

Webster UNIVERSITY

Webster University
Interdisciplinary Science Building

CANNONDESIGN

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

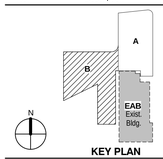
KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP1)	15 JAN 2016



KEY PLAN

Drawing Title:

EXTERIOR - LEVEL 01 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

A0101.EB

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1/15/2016 12:14:40 PM

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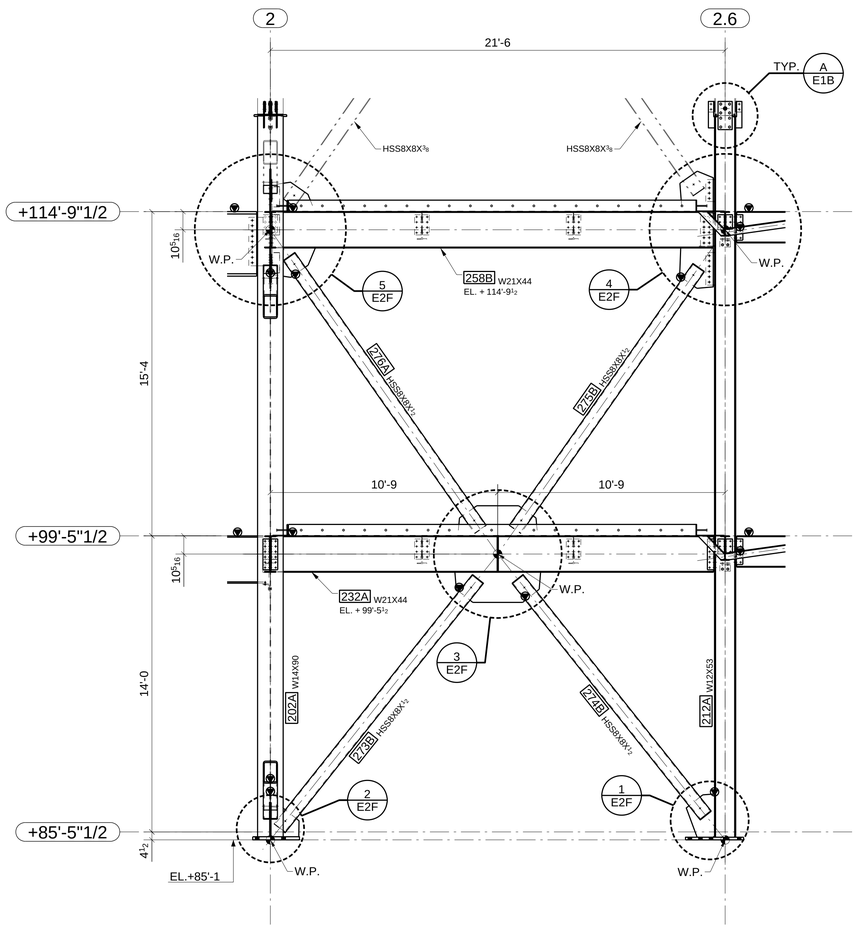
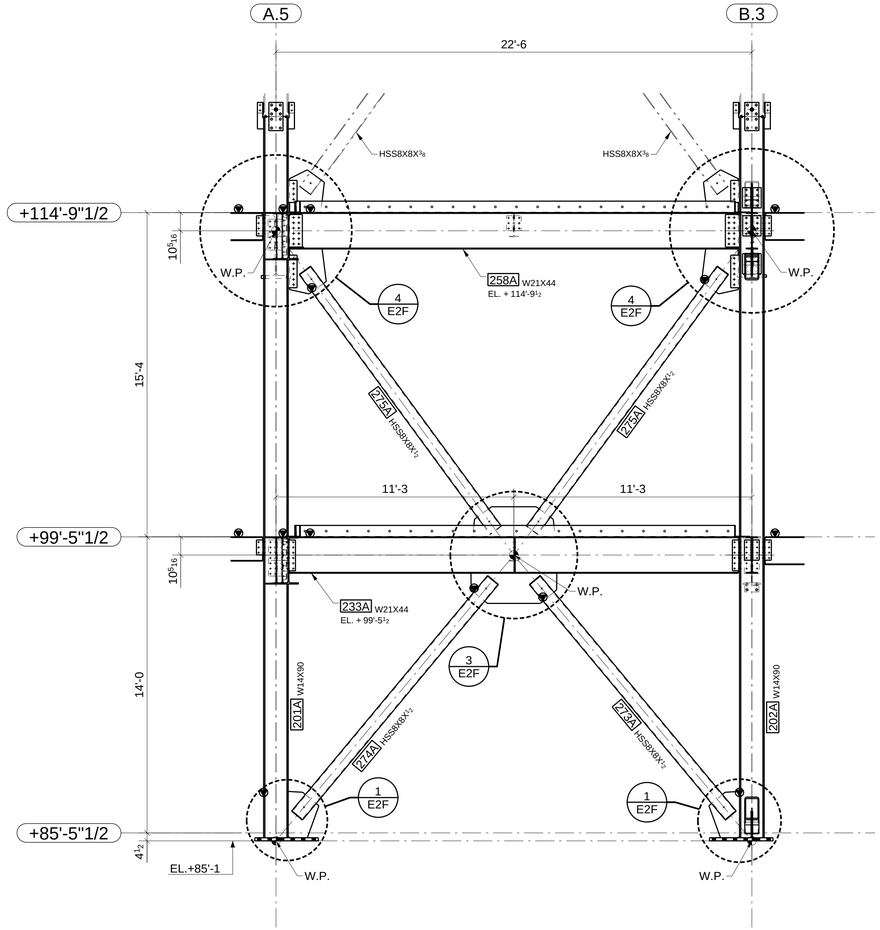


D SECTION
E2B

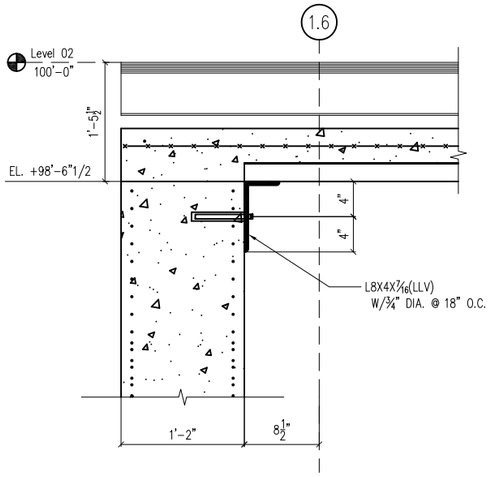


E SECTION
E2B

ATLAS IRON WORKS
ST. LOUIS, MO.

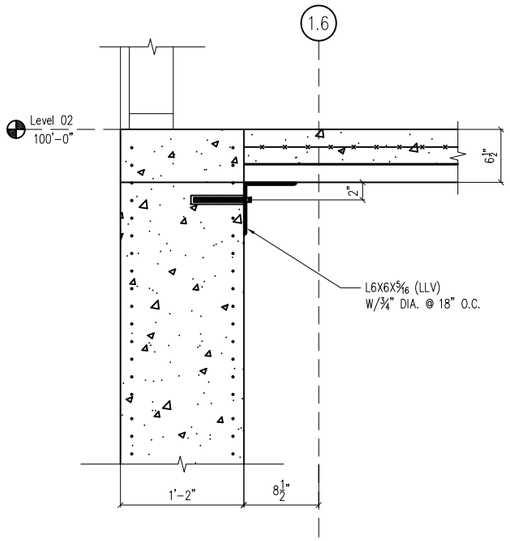
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/24/2016 Ckd: LJ Date: 05/30/2016
Job No.	A16013 BAT: DWG#: E2D

A	FOR APPROVAL	05/30/16



DETAIL – 1

REF:13/S0301



DETAIL – 2

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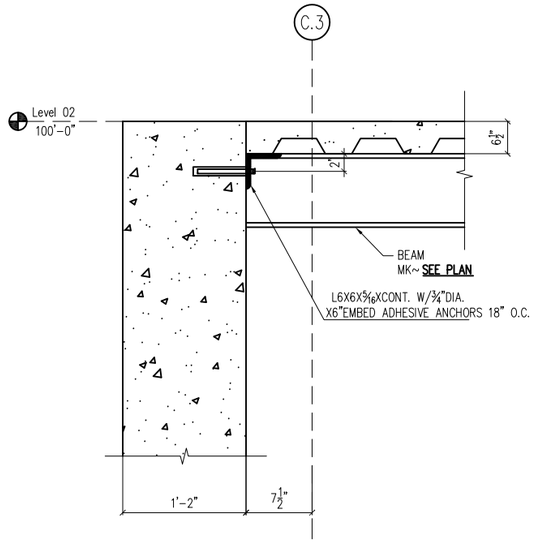

DETAIL – 3

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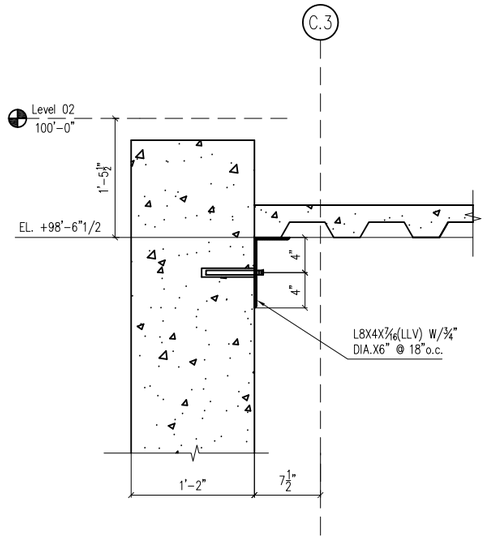

DETAIL – 4

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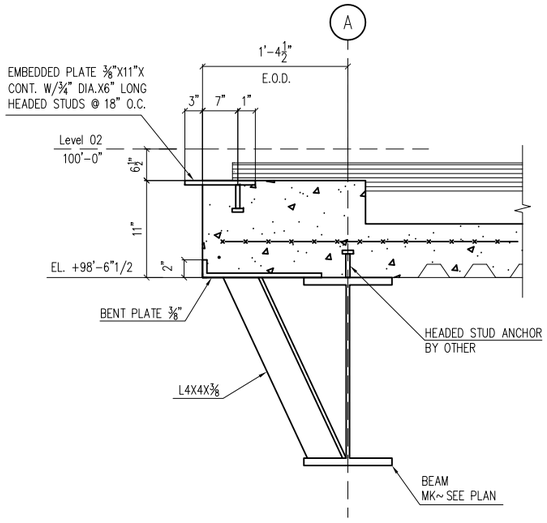

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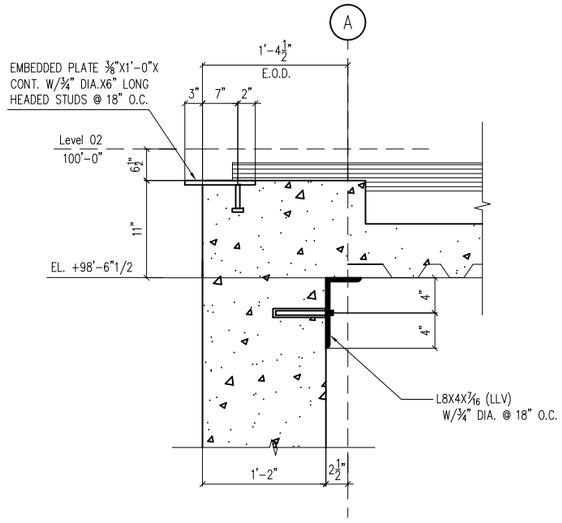

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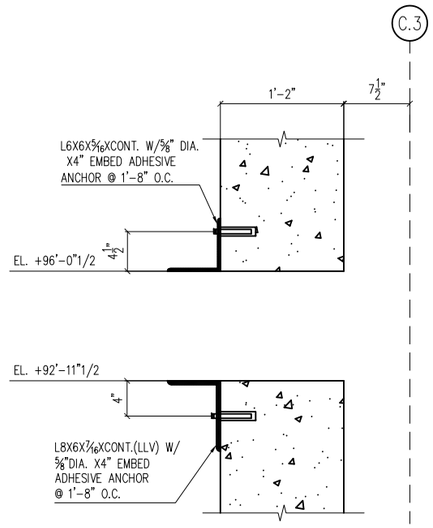
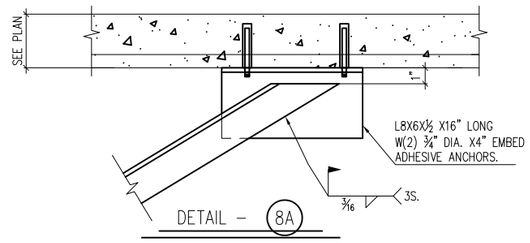
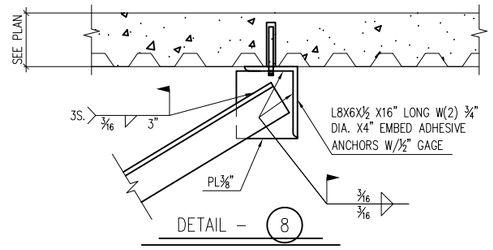


DETAIL – 7

REF:12/S0201



DETAIL – 8A



DETAIL – 8

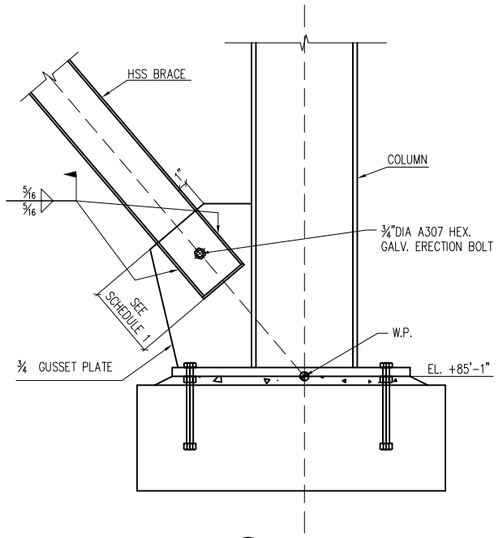
REF:4/S0002

A	FOR APPROVAL	05-30-16

ATLAS IRON WORKS
ST. LOUIS, MO.

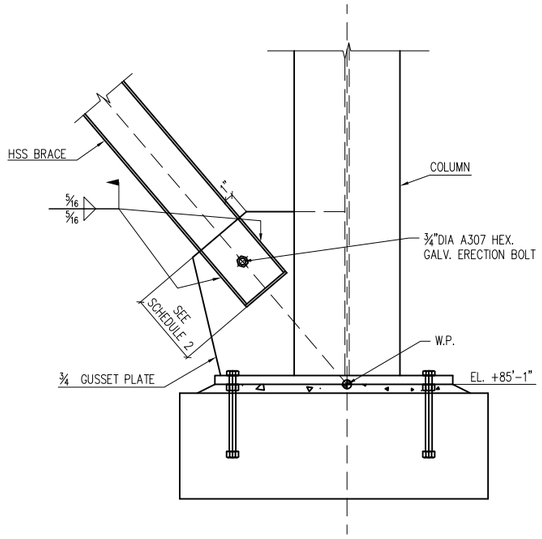
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 05/30/16
Job No. A16013 **BAT:** **DWG#:** E2E

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



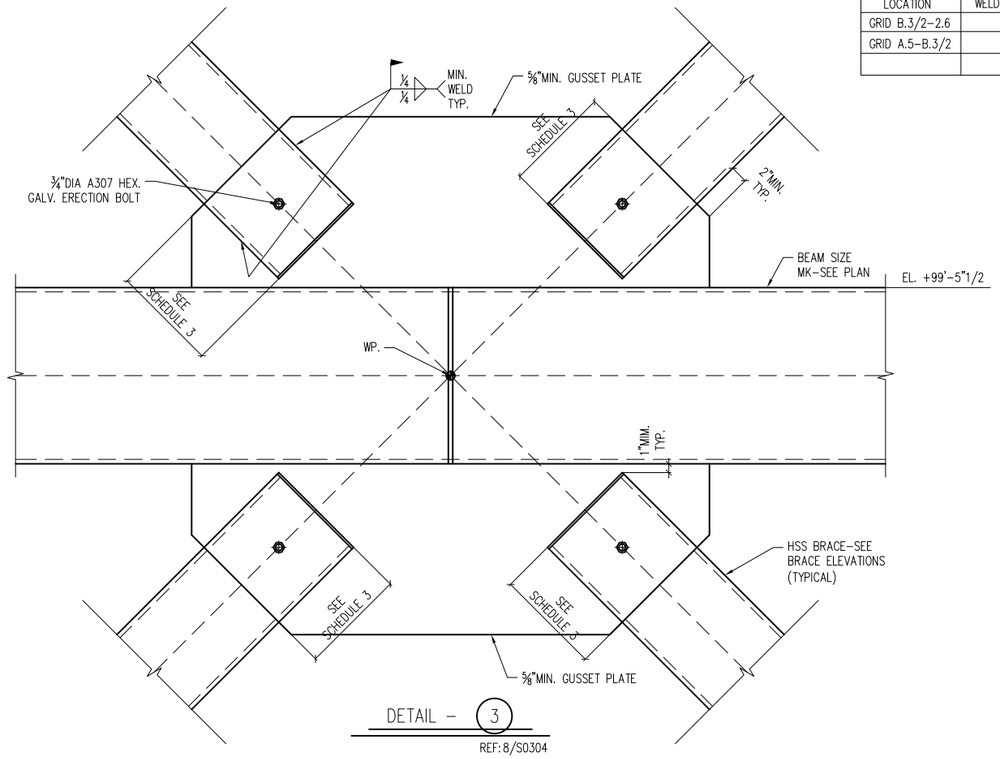
DETAIL - 1

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



DETAIL - 2

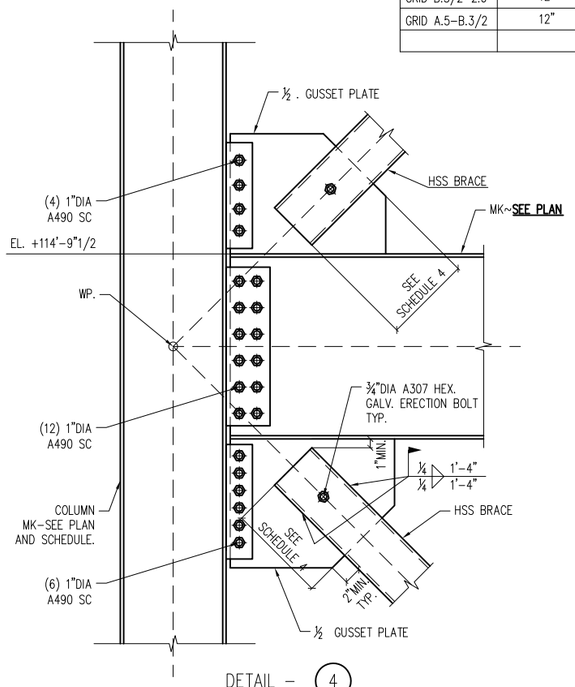
SCHEDULE 3	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"
GRID A.5-B.3/2	12"



DETAIL - 3

REF: 8/S0304

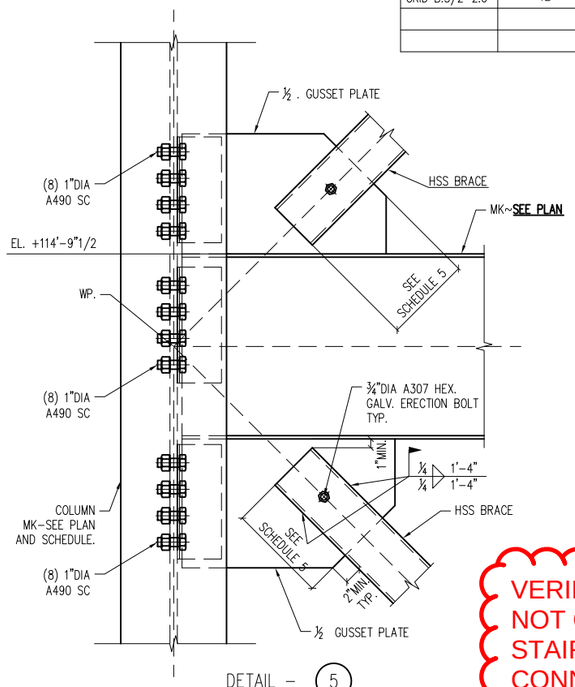
SCHEDULE 4	
LOCATION	WELD LENGTH
GRID B.3/2-2.6	12"
GRID A.5-B.3/2	12"



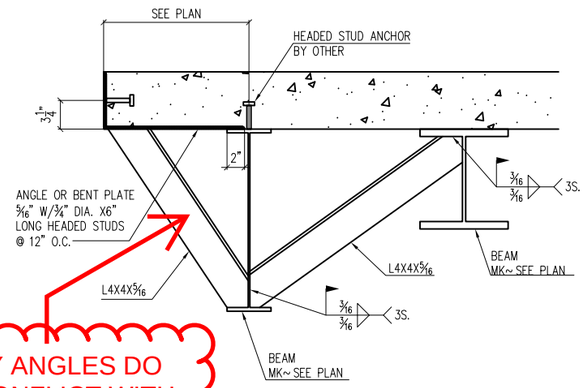
DETAIL - 4

REF: 4/S0304

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



DETAIL - 5



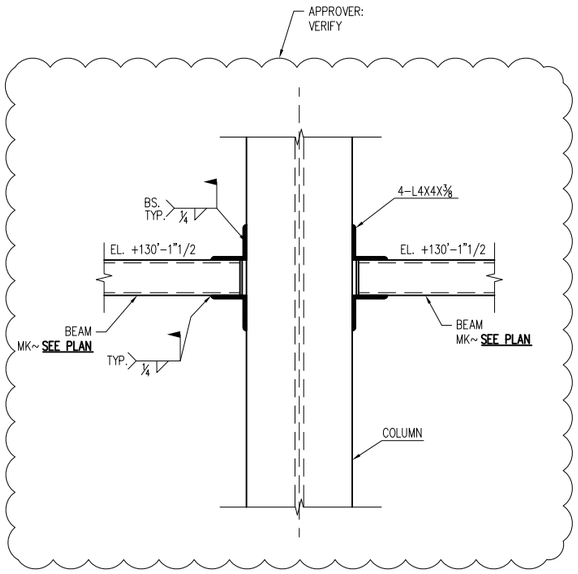
DETAIL - 6

VERIFY ANGLES DO NOT CONFLICT WITH STAIR STRINGER CONNECTIONS

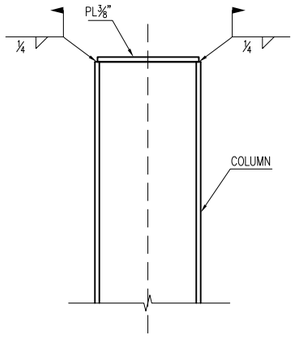
A	FOR APPROVAL	05-30-16

ATLAS IRON WORKS
ST. LOUIS, MO.

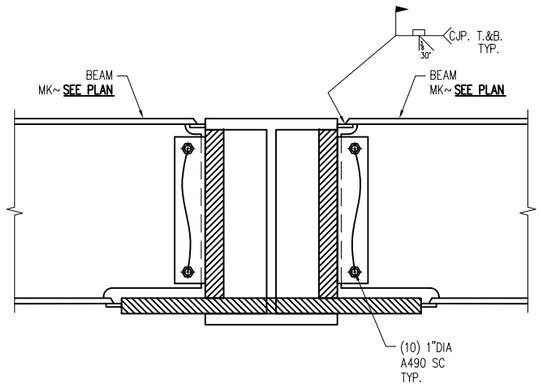
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/16 Ckd: LJ Date: 05/30/16
Job No. A16013 BAT: DWG#: E2F



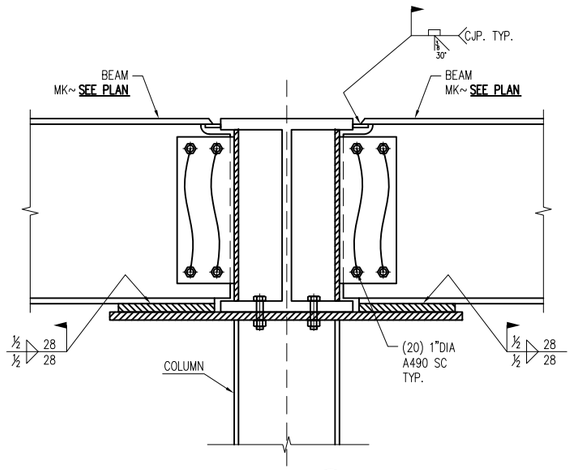
DETAIL - 1



DETAIL - 2



DETAIL - 3

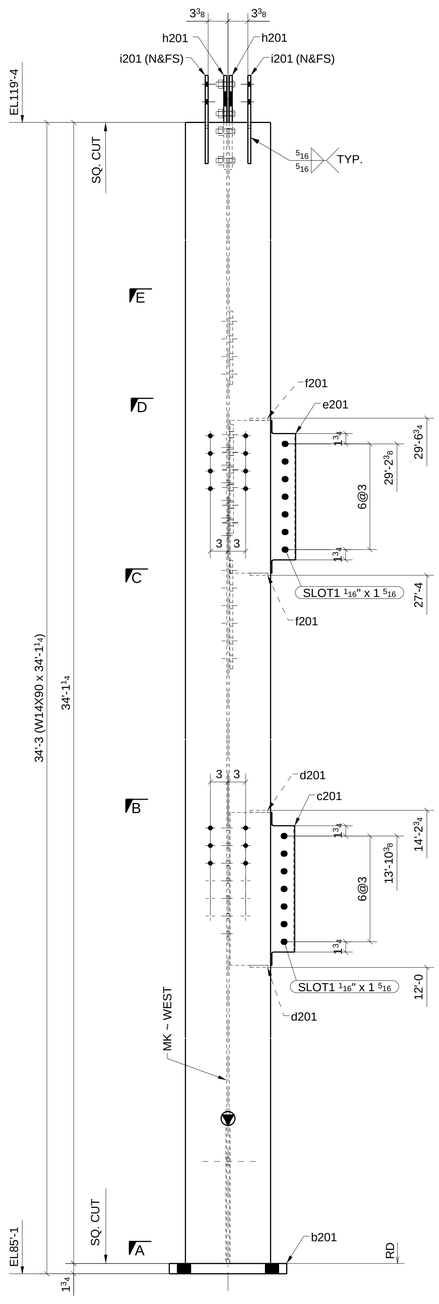


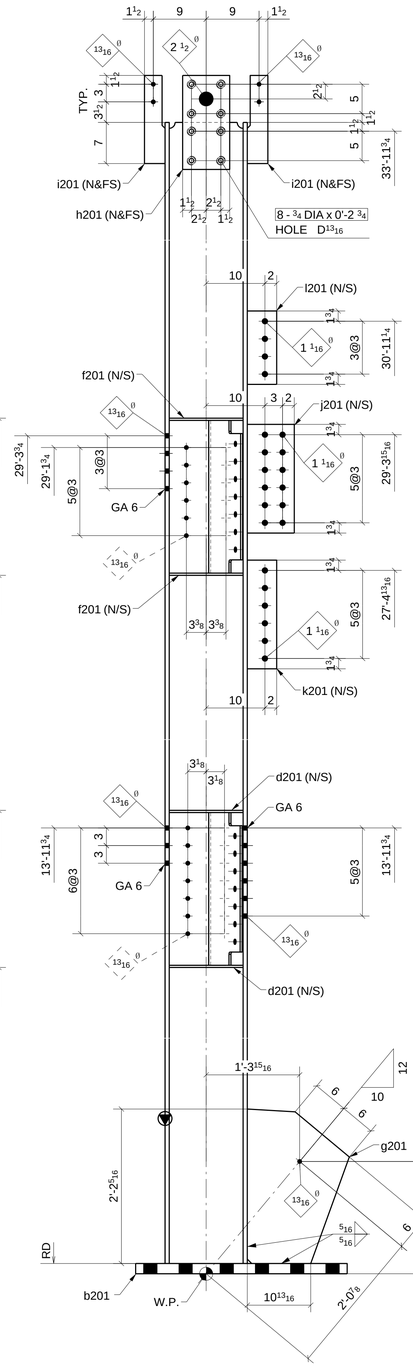
DETAIL - 4

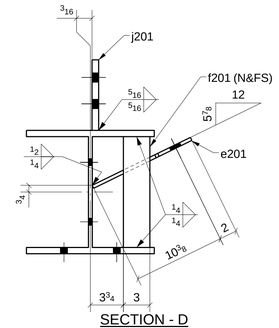
A	FOR APPROVAL	05-30-16

ATLAS IRON WORKS
ST. LOUIS, MO.

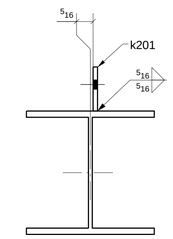
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 05/30/16
Job No. A16013 **BAT:** **DWG#:** E2G



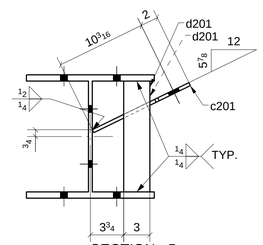




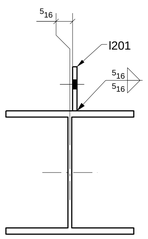
SECTION - D



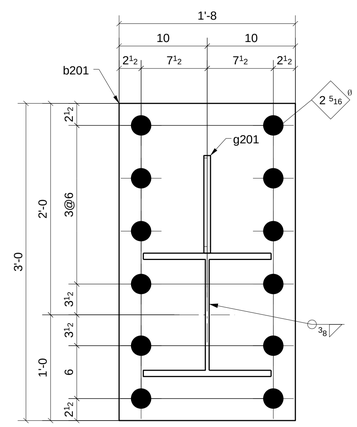
SECTION - C



SECTION - B



SECTION - E



SECTION - A

ONE - COLUMN ~ 201A

LOCATION: ONE @ 2/A.5

(REF: E2A,E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	201A	W14X90	34'-1 1/4"	A992	
1	b201	PL1 3/4"X20"	3'-0"	A36	
1	c201	PL3/8"X12 3/16"	2'-2"	A36	
2	d201	PL3/8"X3"	1'-0 9/16"	A36	
1	e201	PL3/8"X12 3/8"	2'-2"	A36	
2	f201	PL3/8"X3"	1'-0 9/16"	A36	
1	g201	PL3/4"X17 3/8"	2'-2 5/16"	A36	
2	h201	PL1/2"X8"	1'-4"	A36	
4	i201	PL1/2"X3 1/2"	1'-3"	A36	
1	j201	PL3/4"X8"	1'-6 1/2"	A572-GR.50	
1	k201	PL1/2"X5"	1'-6 1/2"	A572-GR.50	
1	l201	PL1/2"X5"	1'-0 1/2"	A572-GR.50	
8		3/4" DIA. W/N&W	0'-2 3/4"	A325N TC	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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

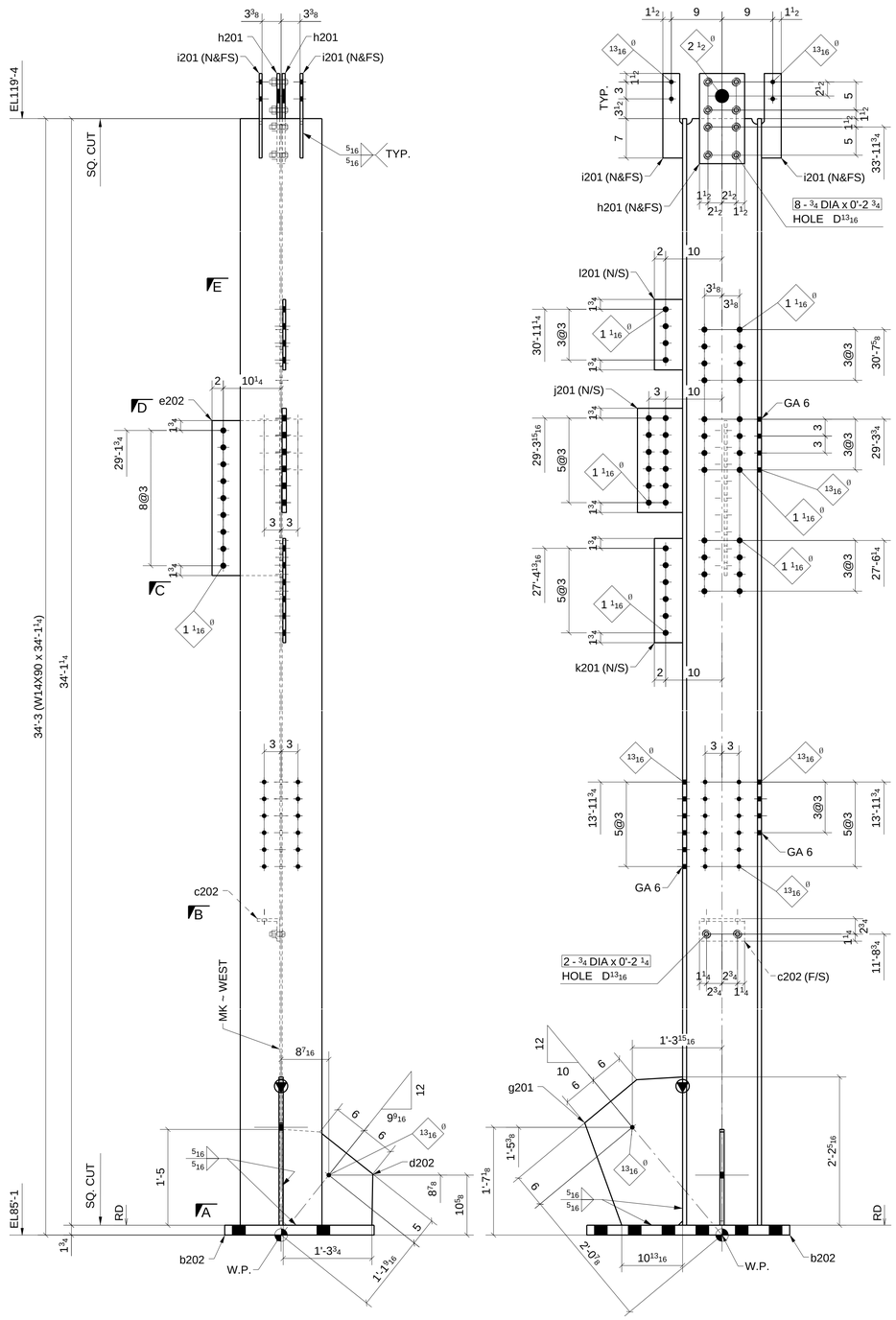
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

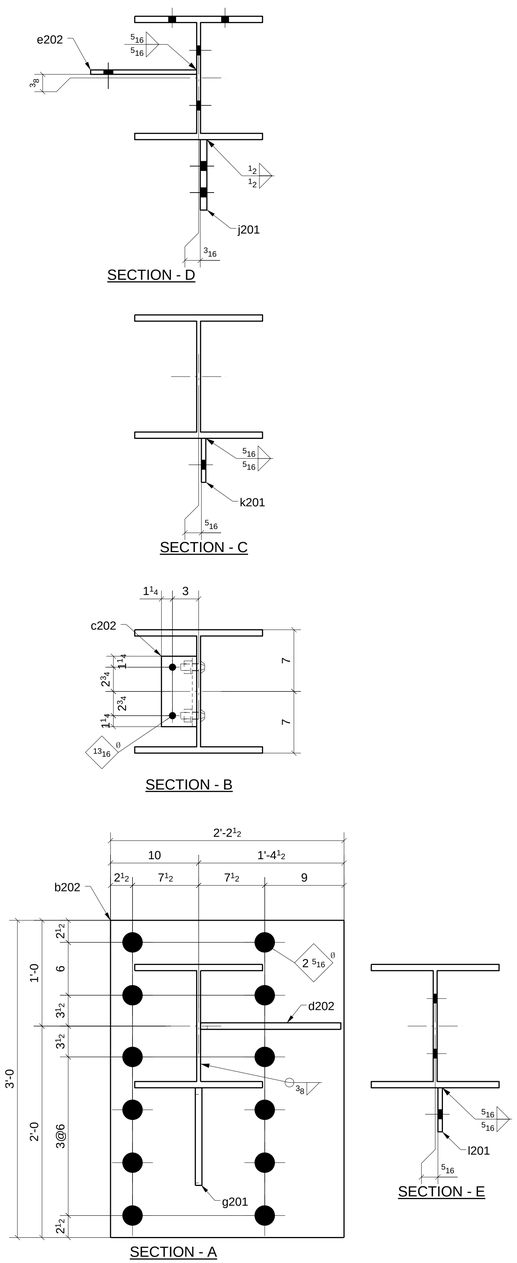
Job No. A16013 BAT: DWG#: 201



ONE - COLUMN ~ 202A

LOCATION: (REF: E2A,E2B)

ONE @ 2/B.3



SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	202A	W14X90	34'-1 1/4"	A992	
1	b202	PL1 3/4"X26 1/2"	3'-0"	A36	
1	c202	L4X4X1/2	0'-8"	A36	
1	d202	PL3/4"X16 1/16"	1'-5"	A36	
1	e202	PL1/2"X12 1/16"	2'-3 1/2"	A36	
1	g201	PL3/4"X17 3/8"	2'-2 5/16"	A36	
2	h201	PL1/2"X8"	1'-4"	A36	
4	i201	PL1/2"X3 1/2"	1'-3"	A36	
1	j201	PL3/4"X8"	1'-6 1/2"	A572-GR.50	
1	k201	PL1/2"X5"	1'-6 1/2"	A572-GR.50	
1	l201	PL1/2"X5"	1'-0 1/2"	A572-GR.50	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
8		3/4" DIA. W/N&W	0'-2 3/4"	A325N TC	

Romac By: Checked By:

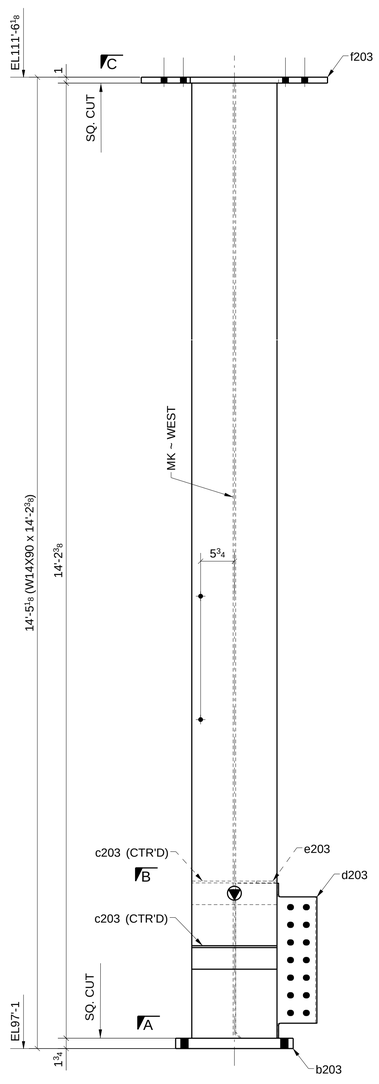
Beamline By: Checked By:

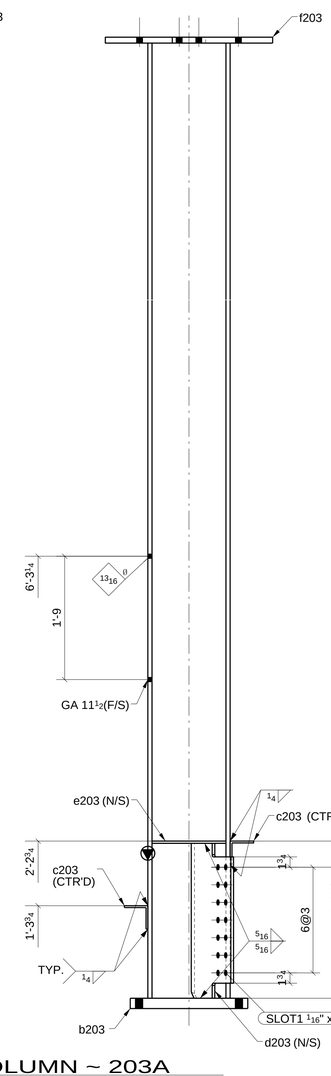
ATLAS IRON WORKS
ST. LOUIS, MO.

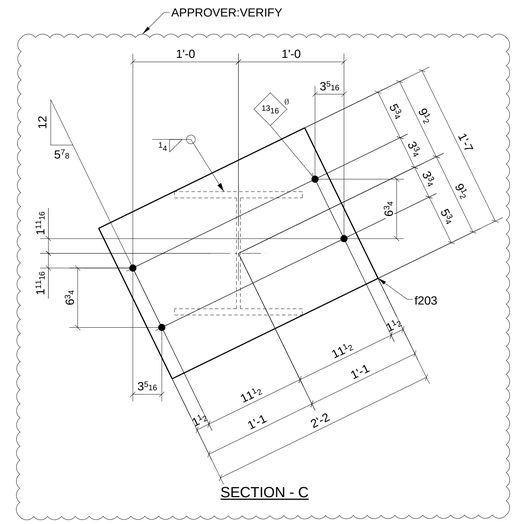
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No.	A16013 BAT: DWG#: 202

A FOR APPROVAL 05/30/16

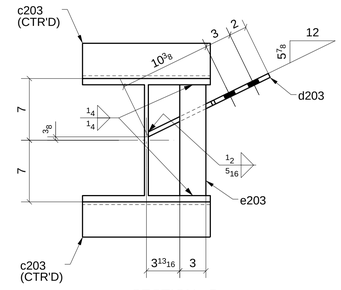
Sequence:	2	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	



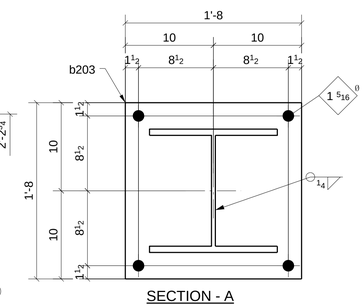




SECTION - C



SECTION - B



SECTION - A

ONE - COLUMN ~ 203A

LOCATION: (REF: E2A,E2B)
ONE @ 1.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

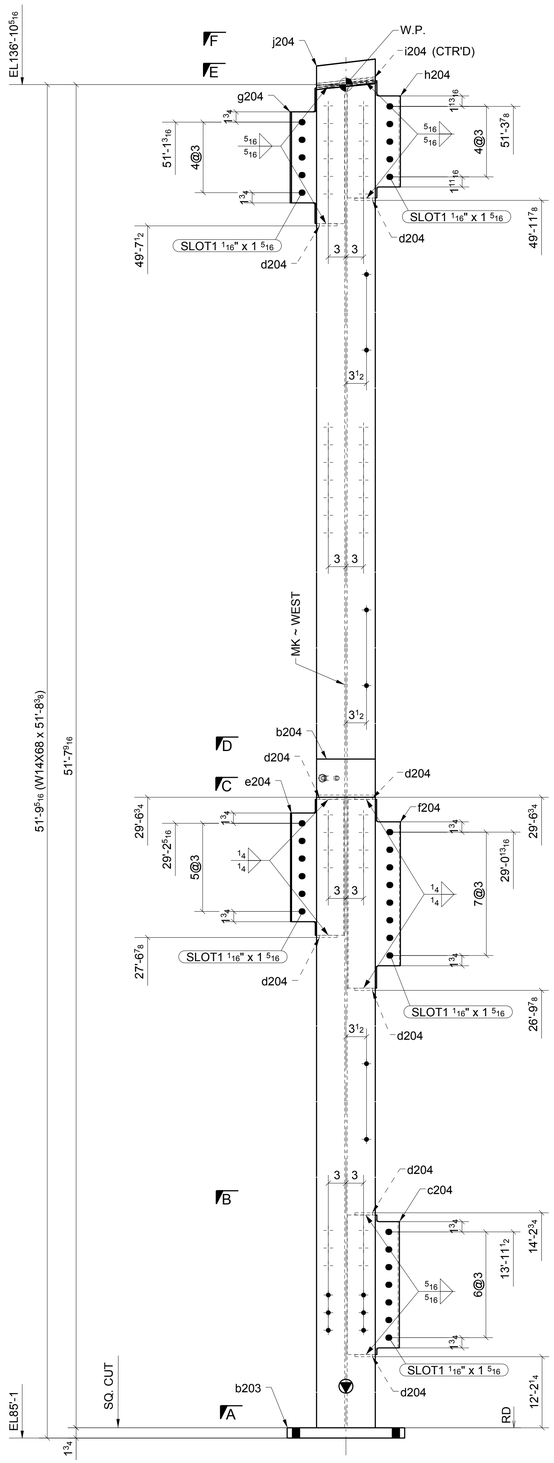
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	203A	W14X90	14'-2 3/8"	A992	
1	b203	PL1 3/4"X20"	1'-8"	A36	
2	c203	L4X4X5/16	1'-2 1/2"	A36	
1	d203	PL1/2"X15 3/8"	2'-2 3/8"	A572-GR.50	
1	e203	PL3/8"X3"	1'-0 9/16"	A36	
1	f203	PL1"X19"	2'-2"	A36	

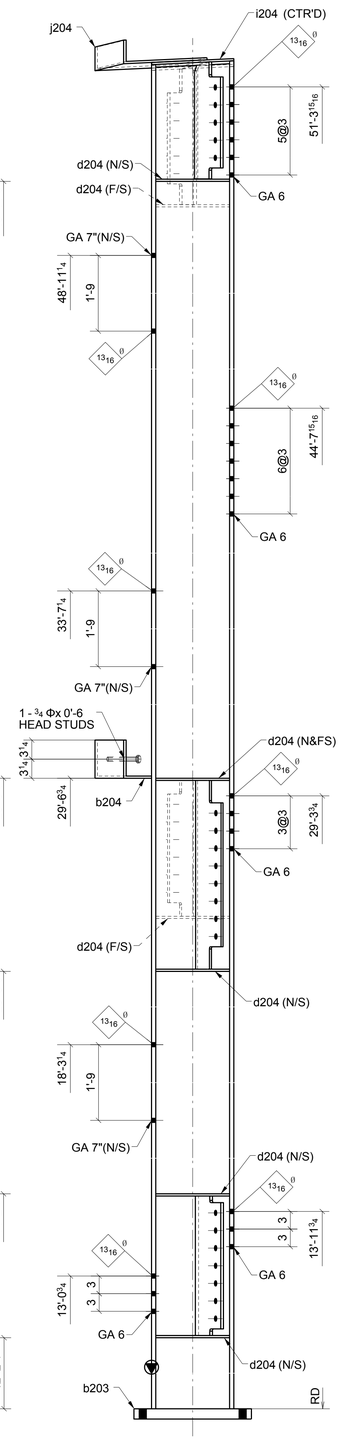
Romac By: Checked By:
Beamline By: Checked By:

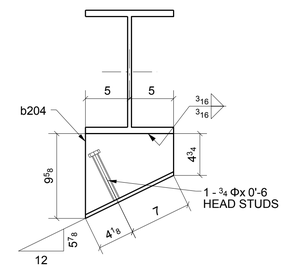
A	FOR APPROVAL		05/30/16
Sequence: 2		Ref. E-Plans: --	
Material: A992	U.N.O.	Edge Dist.: 1 1/2"	U.N.O.
Holes: 13/16"DIA.		Bolts: NOTED	
Cleaning: NONE			
Paint: NO			
DFT:		COLOR:	

ATLAS IRON WORKS
ST. LOUIS, MO.

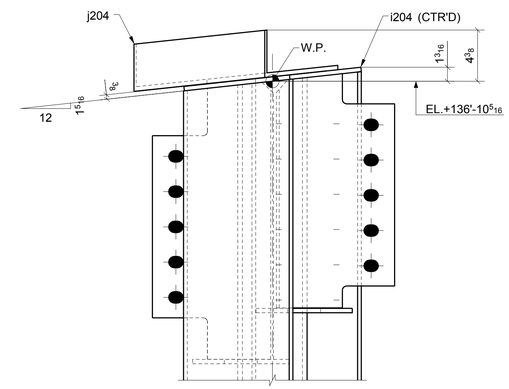
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 203



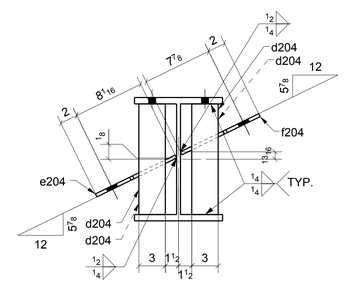




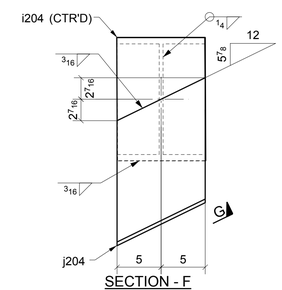
SECTION - D



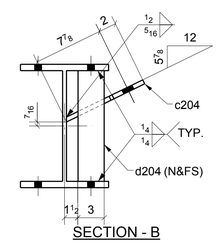
SECTION - G



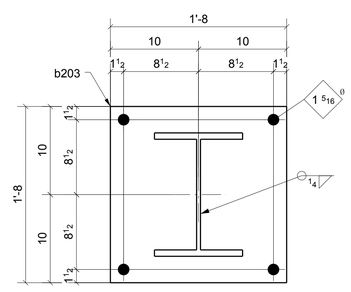
SECTION - C



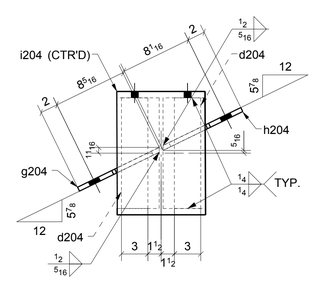
SECTION - F



SECTION - B



SECTION - A



SECTION - E

ONE - COLUMN ~ 204A

LOCATION:
ONE @ 2/4-A.5

(REF: E2A,E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

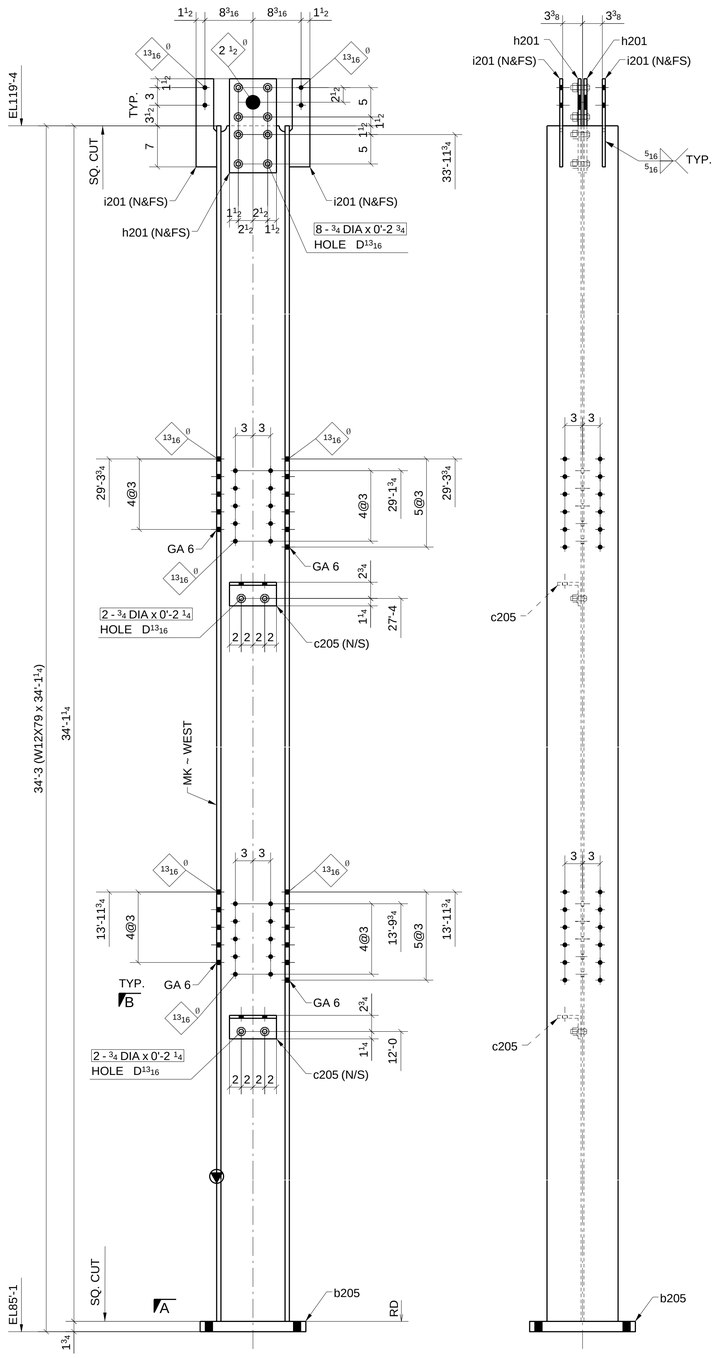
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	204A	W14X68	51'-8 3/8"	A992	
1	b203	PL1 3/4"X20"	1'-8"	A36	
1	b204	BPL3/8""15"1/8	1'-1 3/16"	A36	
1	c204	PL1/2"X9 7/8"	1'-11 3/4"	A36	
8	d204	PL3/8"X3"	1'-0 9/16"	A36	
1	e204	PL3/8"X10 1/16"	1'-11 1/8"	A36	
1	f204	PL3/8"X9 7/8"	2'-8 1/8"	A36	
1	g204	PL1/2"X10 5/16"	1'-11 9/16"	A36	
1	h204	PL1/2"X10 1/16"	1'-7 15/16"	A36	
1	i204	PL3/8"X10 1/16"	1'-2"	A36	
1	j204	BPL3/8""16"3/4	1'-5 1/2"	A36	
1		3/4" STUD	0'-6"		

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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.

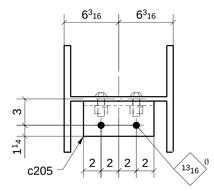
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 204



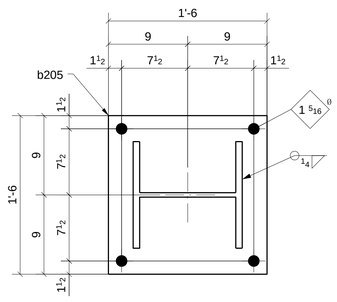
ONE - COLUMN ~ 205A

LOCATION: ONE @ 3/B.3

(REF: E2A,E2B)



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	205A	W12X79	34'-1 1/4"	A992	
1	b205	PL1 3/4"X18"	1'-6"	A36	
2	c205	L4X4X1/2	0'-8"	A36	
2	h201	PL1/2"X8"	1'-4"	A36	
4	i201	PL1/2"X3 1/2"	1'-3"	A36	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
8		3/4" DIA. W/N&W	0'-2 3/4"	A325N TC	

A	FOR APPROVAL	05/30/16

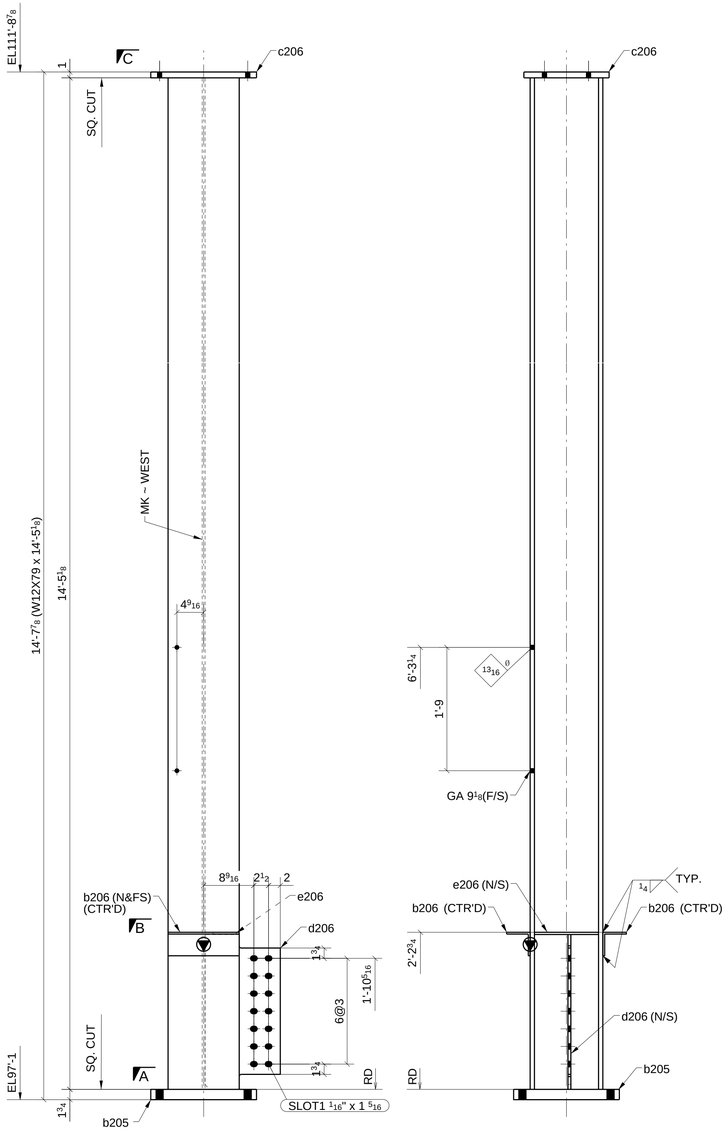
Sequence:	2	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

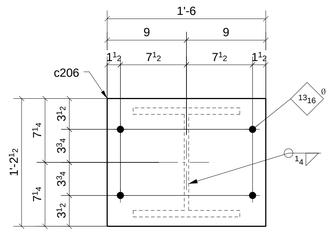
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: TLI	Date: 05/27/2016	Ckd: LJ	Date: 05/30/2016
Job No. A16013	BAT:	DWG#: 205	



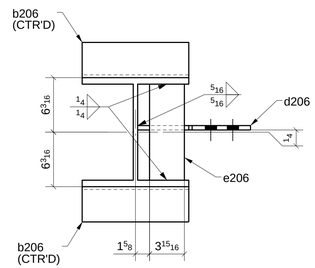
ONE - COLUMN ~ 206A

LOCATION: ONE @ 1.6/B.3

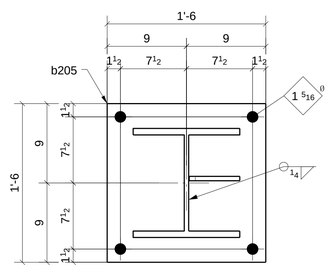
(REF: E2A,E2B)



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	206A	W12X79	14'-5 1/8"	A992	
1	b205	PL1 3/4"X18"	1'-6"	A36	
2	b206	L4X4X5/16	1'-0 1/8"	A36	
1	c206	PL1"X14 1/2"	1'-6"	A36	
1	d206	PL1/2"X12 13/16"	2'-2 3/8"	A572-GR.50	
1	e206	PL3/8"X3 15/16"	0'-10 7/8"	A36	

A	FOR APPROVAL		05/30/16
Sequence:	2	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

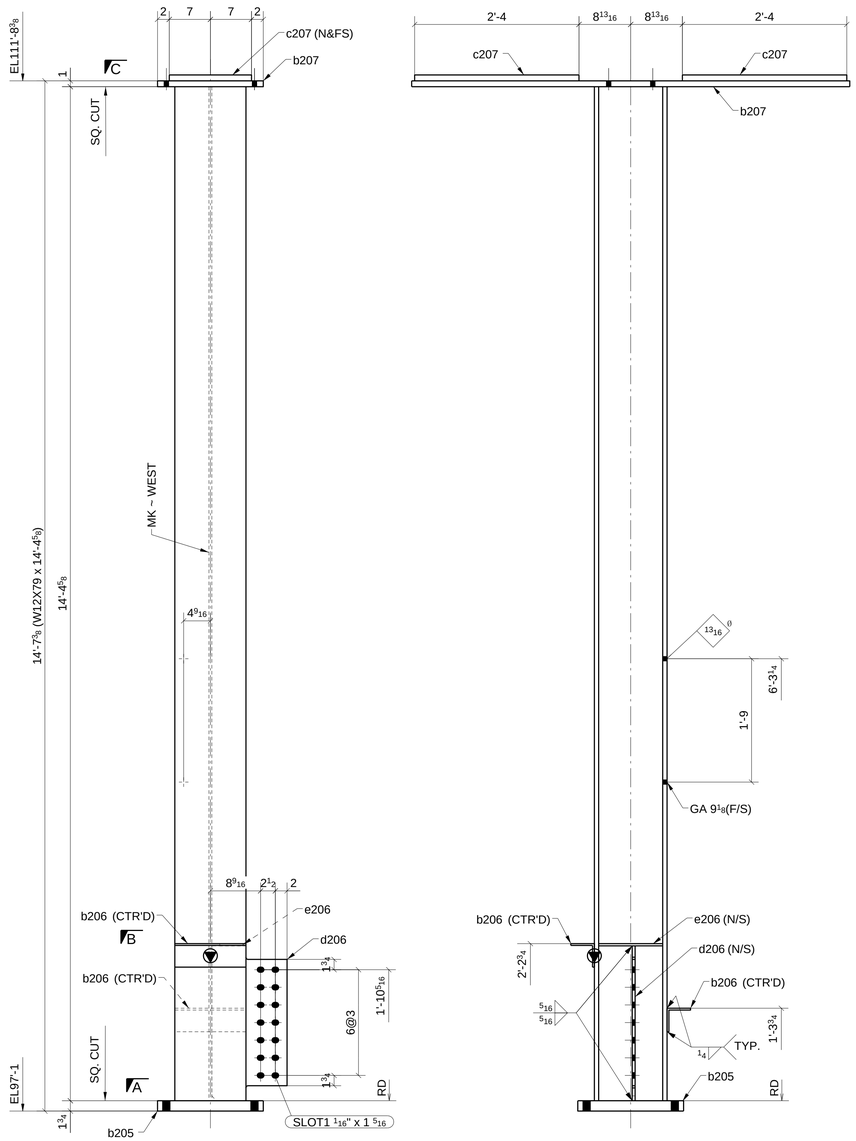
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

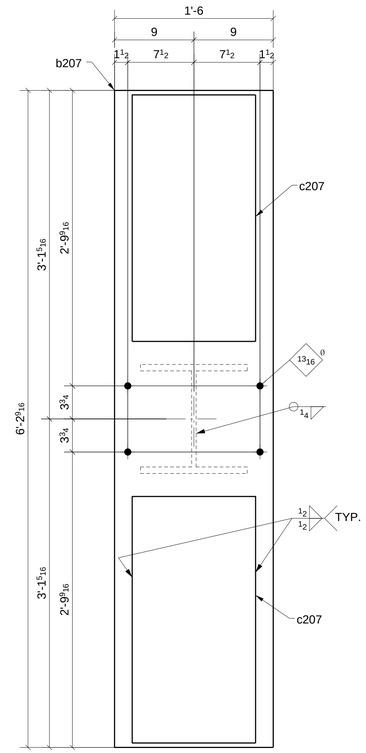
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 206

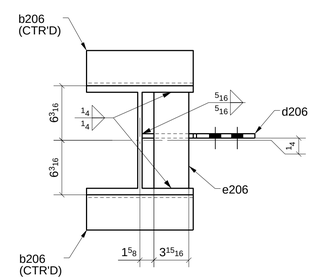


ONE - COLUMN ~ 207A

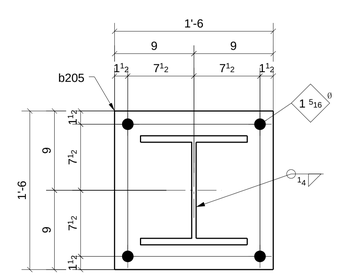
LOCATION: ONE @ 1.6/C (REF: E2A,E2B)



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	207A	W12X79	14'-4 5/8"	A992	
1	b205	PL1 3/4"X18"	1'-6"	A36	
2	b206	L4X4X5/16	1'-0 1/8"	A36	
1	b207	PL1"X18"	6'-2 9/16"	A36	
2	c207	PL1"X14"	2'-4"	A36	
1	d206	PL1/2"X12 13/16"	2'-2 3/8"	A572-GR.50	
1	e206	PL3/8"X3 15/16"	0'-10 7/8"	A36	

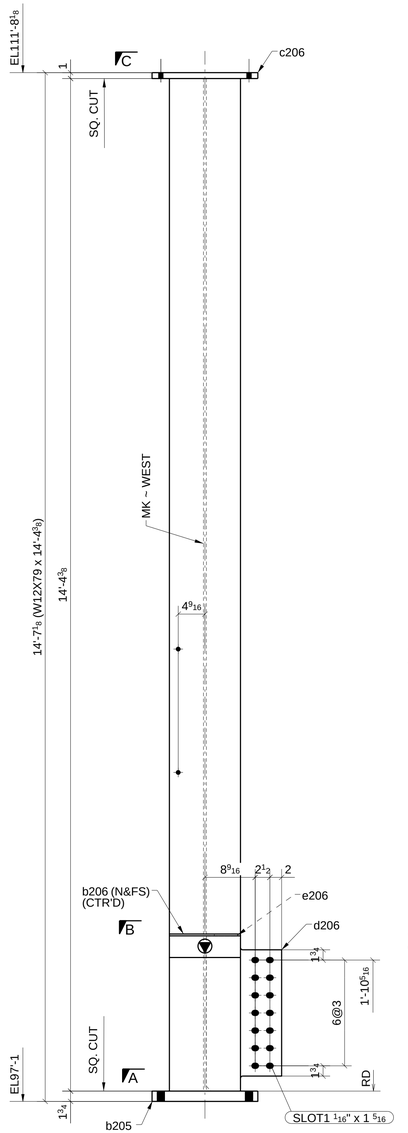
Romac By:		Checked By:	
Beamline By:		Checked By:	

A FOR APPROVAL 05/30/16

Sequence:	2	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.

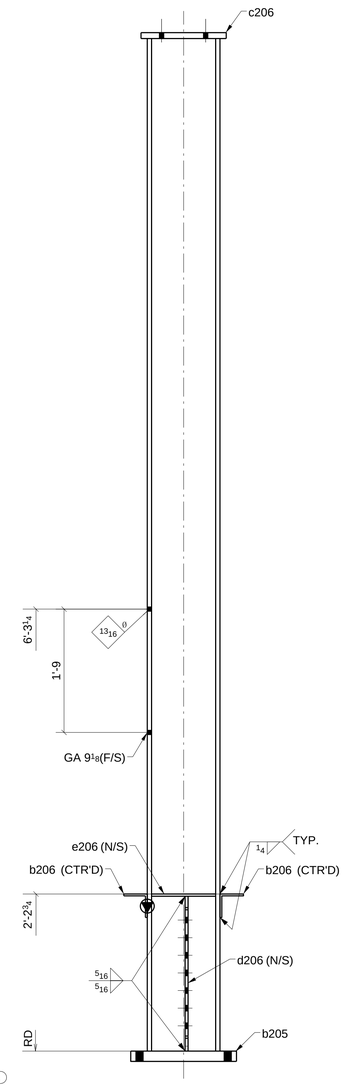
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn: TLI	Date: 05/27/2016	Ckd: LJ	Date: 05/30/2016		
Job No.	A16013	BAT:	DWG#: 207		

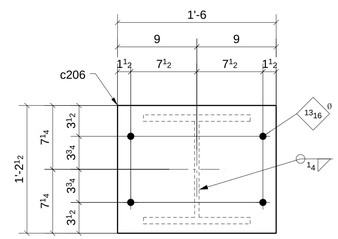


ONE - COLUMN ~ 208A

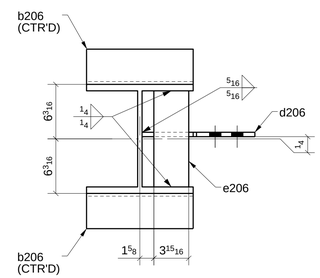
LOCATION: (REF: E2A,E2B)

ONE @ 1.6/A.5

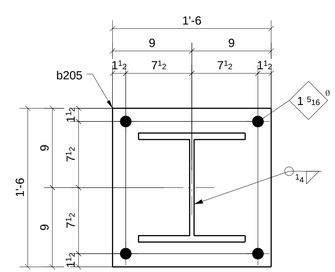




SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	208A	W12X79	14'-4 3/8"	A992	
1	b205	PL1 3/4"X18"	1'-6"	A36	
2	b206	L4X4X5/16	1'-0 1/8"	A36	
1	c206	PL1"X14 1/2"	1'-6"	A36	
1	d206	PL1/2"X12 13/16"	2'-2 3/8"	A572-GR.50	
1	e206	PL3/8"X3 15/16"	0'-10 7/8"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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

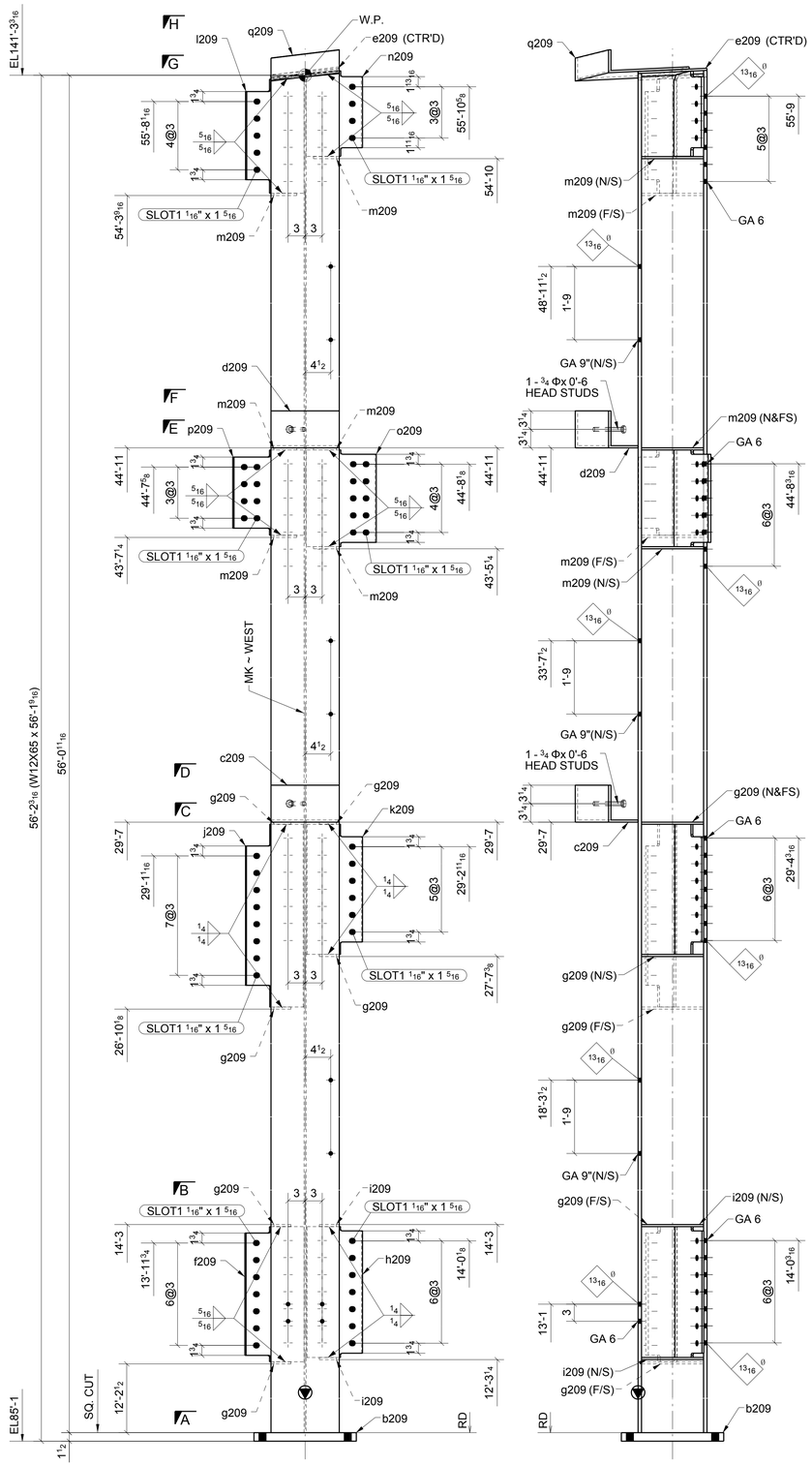
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

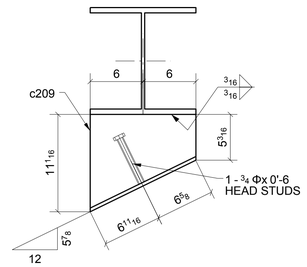
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 208

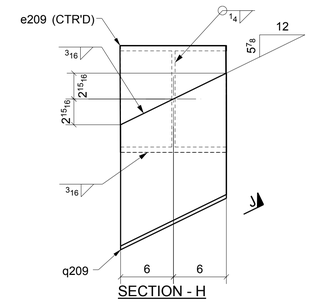


ONE - COLUMN ~ 209A

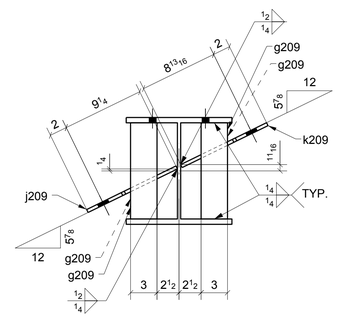
LOCATION: ONE @ 3/4-A.5 (REF: E2A,E2B)



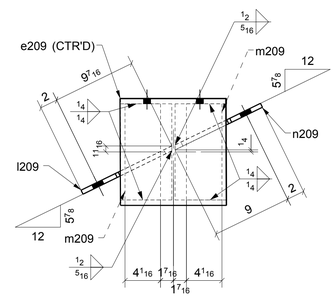
SECTION - D



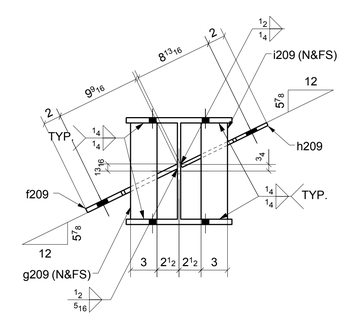
SECTION - H



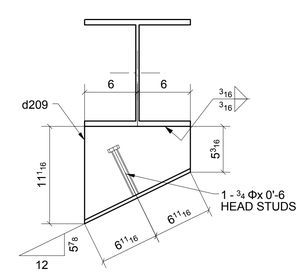
SECTION - C



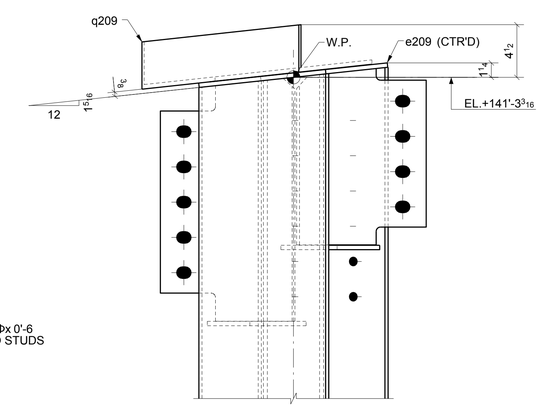
SECTION - G



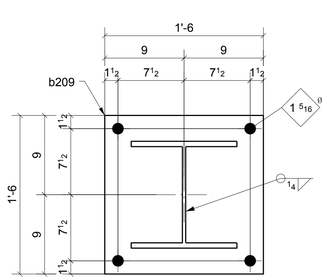
SECTION - B



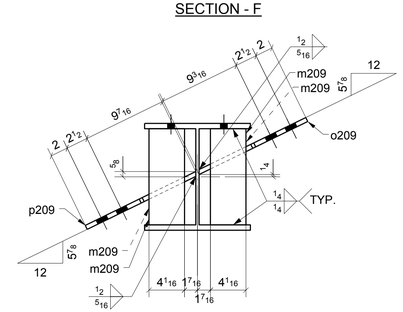
SECTION - F



SECTION - J



SECTION - A



SECTION - E

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	209A	W12X65	56'-1 9/16"	A992	
1	b209	PL1 1/2"X18"	1'-6"	A36	
1	c209	BPL3/8""16"7/16	1'-3 5/8"	A36	
1	d209	BPL3/8""16"7/16	1'-3 5/8"	A36	
1	e209	PL3/8"X12 1/16"	1'-0 1/8"	A36	
1	f209	PL1/2"X11 9/16"	1'-11 3/4"	A36	
6	g209	PL3/8"X3"	0'-10 15/16	A36	
1	h209	PL3/8"X10 13/16"	1'-11"	A36	
2	i209	PL3/8"X3"	0'-10 15/16	A36	
1	j209	PL3/8"X11 1/4"	2'-8 1/8"	A36	
1	k209	PL3/8"X10 13/16"	1'-10 7/8"	A36	
1	l209	PL1/2"X11 7/16"	1'-8 11/16"	A36	
6	m209	PL3/8"X4 1/16"	0'-10 15/16		
1	n209	PL1/2"X11"	1'-3"	A36	
1	o209	PL1/2"X13 11/16"	1'-5"	A36	
1	p209	PL1/2"X13 15/16"	1'-3"	A36	
1	q209	BPL3/8""16"3/4	1'-7 3/4"	A36	
2		3/4" STUD	0'-6"		

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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

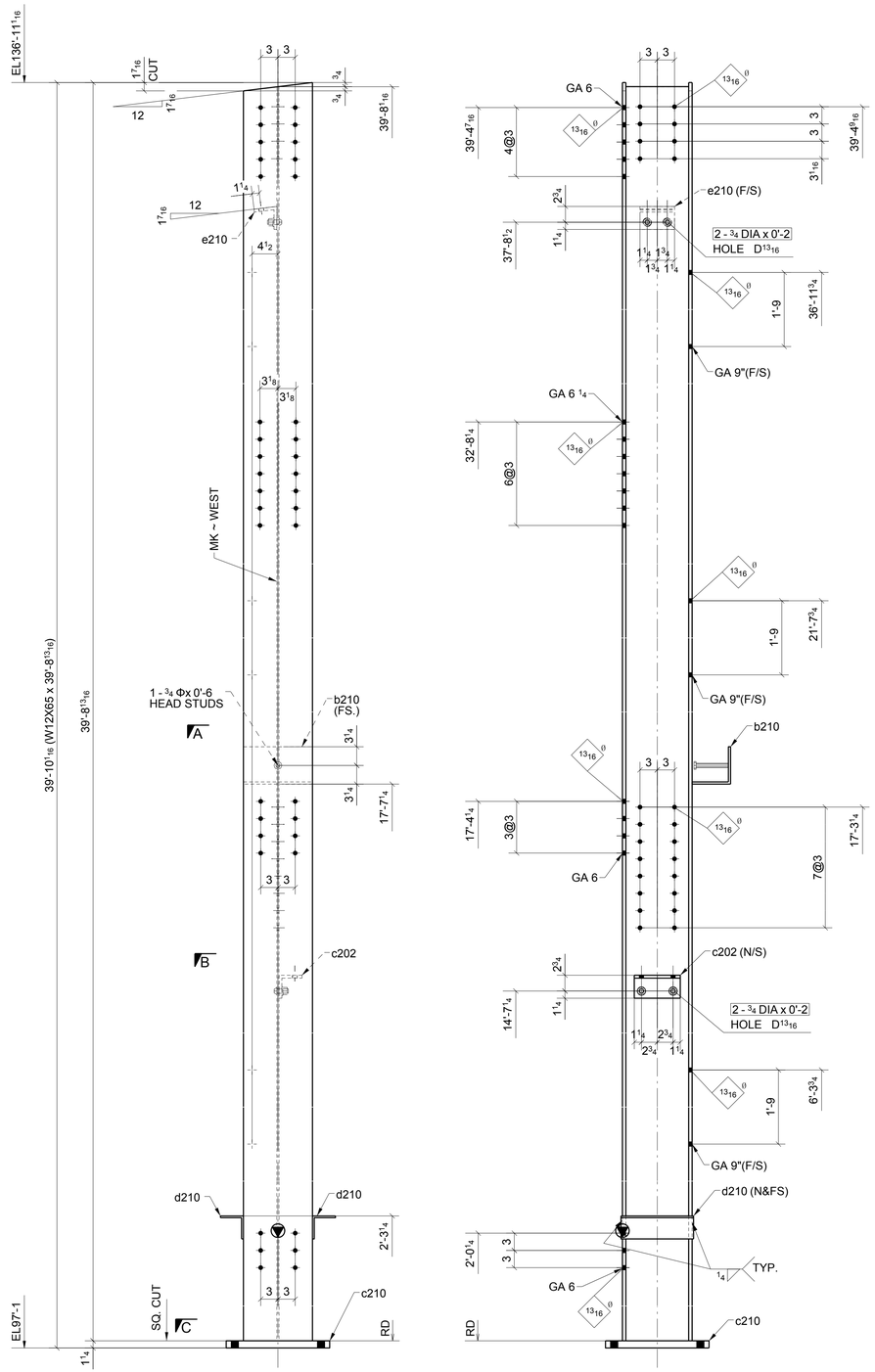
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

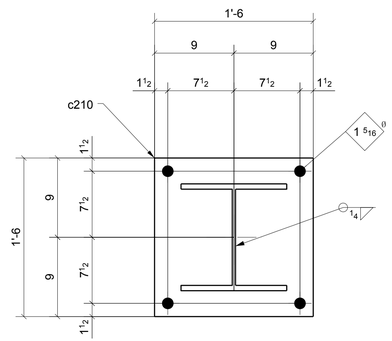
Job No. A16013 BAT: DWG#: 209



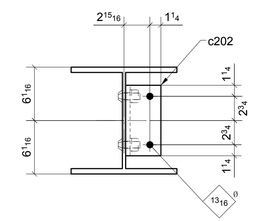
ONE - COLUMN ~ 210A

LOCATION: ONE @ 2/C.3

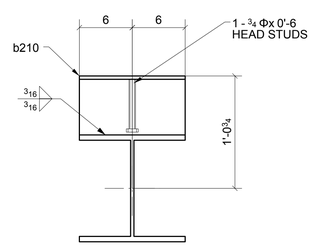
(REF: E2A,E2B)



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

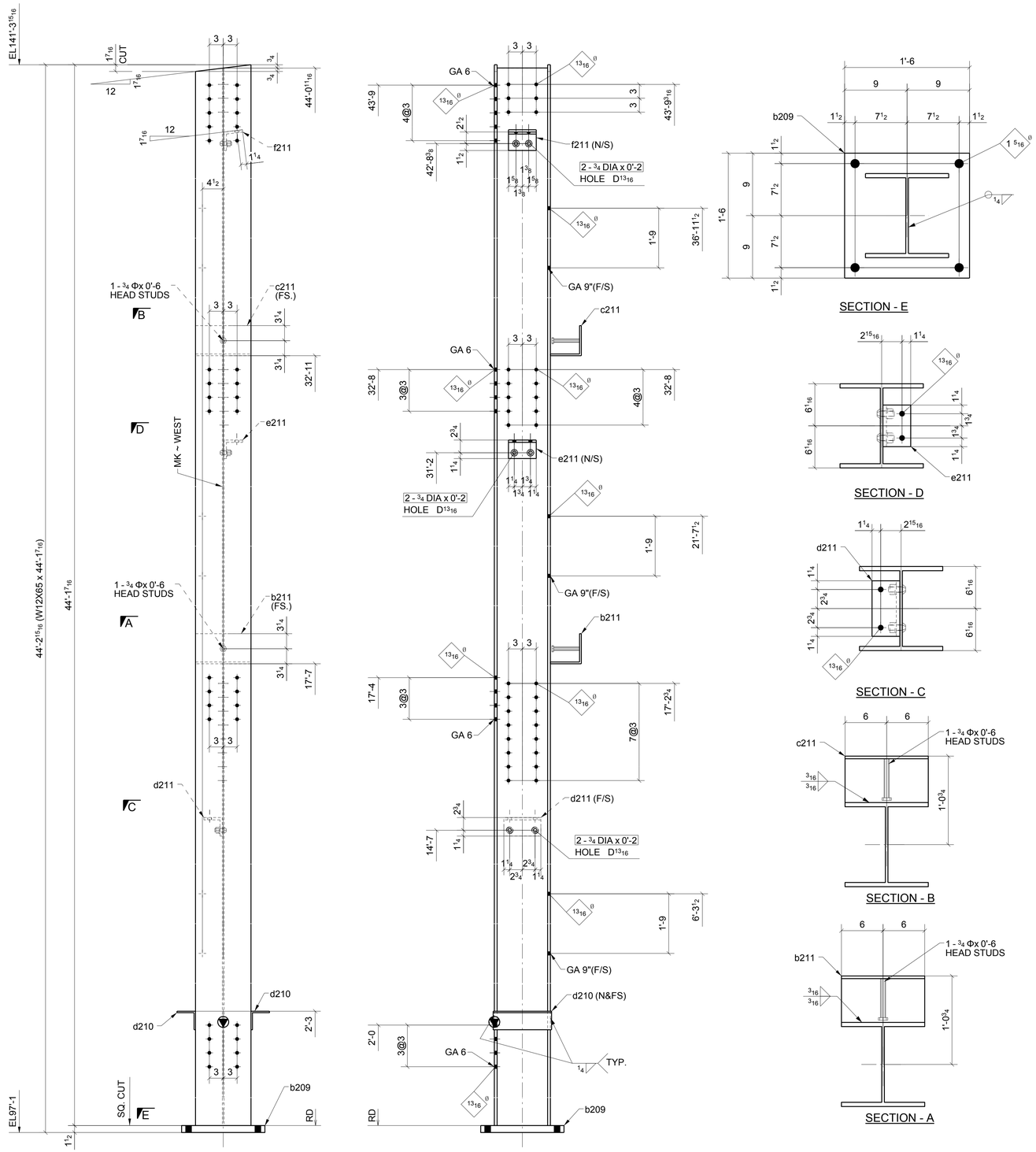
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	210A	W12X65	39'-8 13/16"	A992	
1	b210	BPL3/8"X12"	1'-1 3/16"	A36	
1	c202	L4X4X1/2	0'-8"	A36	
1	c210	PL1 1/4"X18"	1'-6"	A36	
2	d210	L4X4X5/16	1'-0 5/8"	A36	
1	e210	BPL1/2"*8	0'-6"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N TC	
1		3/4" STUD	0'-6"		

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

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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:	GQG	Date: 05/27/2016	Ckd: LJ	Date:	05/30/2016
Job No.	A16013	BAT:		DWG#:	210



ONE - COLUMN ~ 211A

LOCATION: ONE @ 3/C.3

(REF: E2A,E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	211A	W12X65	44'-1 7/16"	A992	
1	b209	PL1 1/2"X18"	1'-6"	A36	
1	b211	BPL3/8"X12"	1'-1 3/16"	A36	
1	c211	BPL3/8"X12"	1'-1 3/16"	A36	
2	d210	L4X4X5/16	1'-0 5/8"	A36	
1	d211	L4X4X1/2	0'-8"	A36	
1	e211	L4X4X1/2	0'-6"	A36	
1	f211	BPL1/2"*8	0'-6"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" STUD	0'-6"		

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	05/30/16

Sequence: 2 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

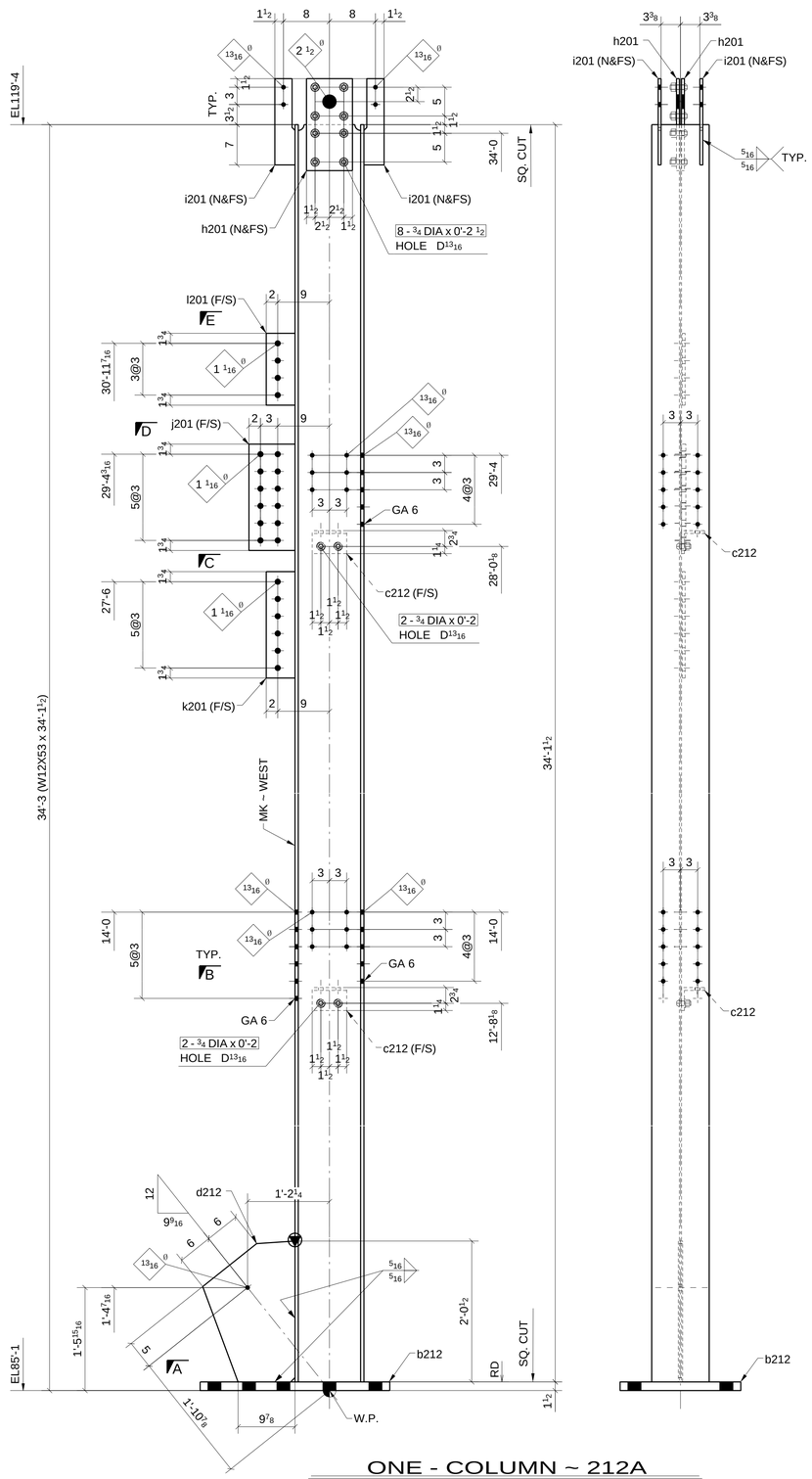
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: GQG Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

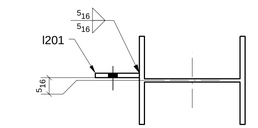
Job No. A16013 BAT: _____ DWG#: 211



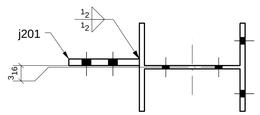
ONE - COLUMN ~ 212A

LOCATION: (REF: E2A,E2B)

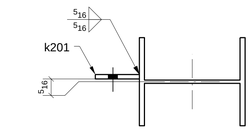
ONE @ 2.6/B.3



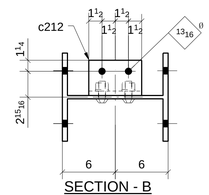
SECTION - E



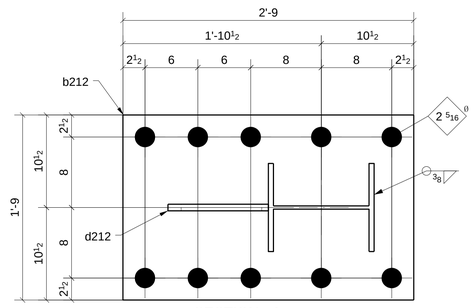
SECTION - D



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	212A	W12X53	34'-1 1/2"	A992	
1	b212	PL1 1/2"X21"	2'-9"	A36	
2	c212	L4X4X1/2	0'-6"	A36	
1	d212	PL3/4"X16 1/16"	2'-0 1/2"	A36	
2	h201	PL1/2"X8"	1'-4"	A36	
4	i201	PL1/2"X3 1/2"	1'-3"	A36	
1	j201	PL3/4"X8"	1'-6 1/2"	A572-GR.50	
1	k201	PL1/2"X5"	1'-6 1/2"	A572-GR.50	
1	l201	PL1/2"X5"	1'-0 1/2"	A572-GR.50	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A FOR APPROVAL 05/30/16

Sequence: 2 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

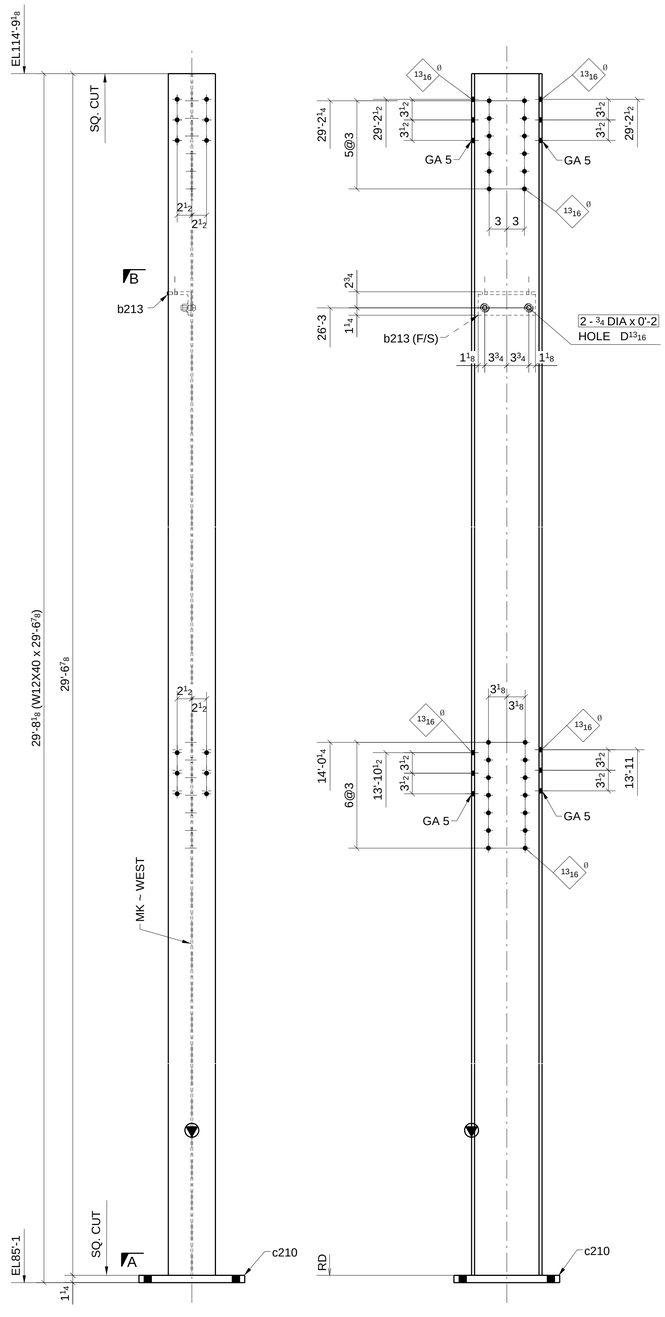
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

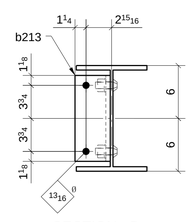
Job No. A16013 BAT: DWG#: 212



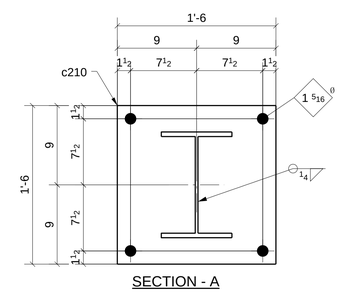
ONE - COLUMN ~ 213A

LOCATION: (REF: E2A,E2B)

ONE @ 2/C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	213A	W12X40	29'-6 7/8"	A992	
1	b213	L4X4X1/2	0'-9 3/4"	A36	
1	c210	PL1 1/4"X18"	1'-6"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL		05/30/16
Sequence: 2		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

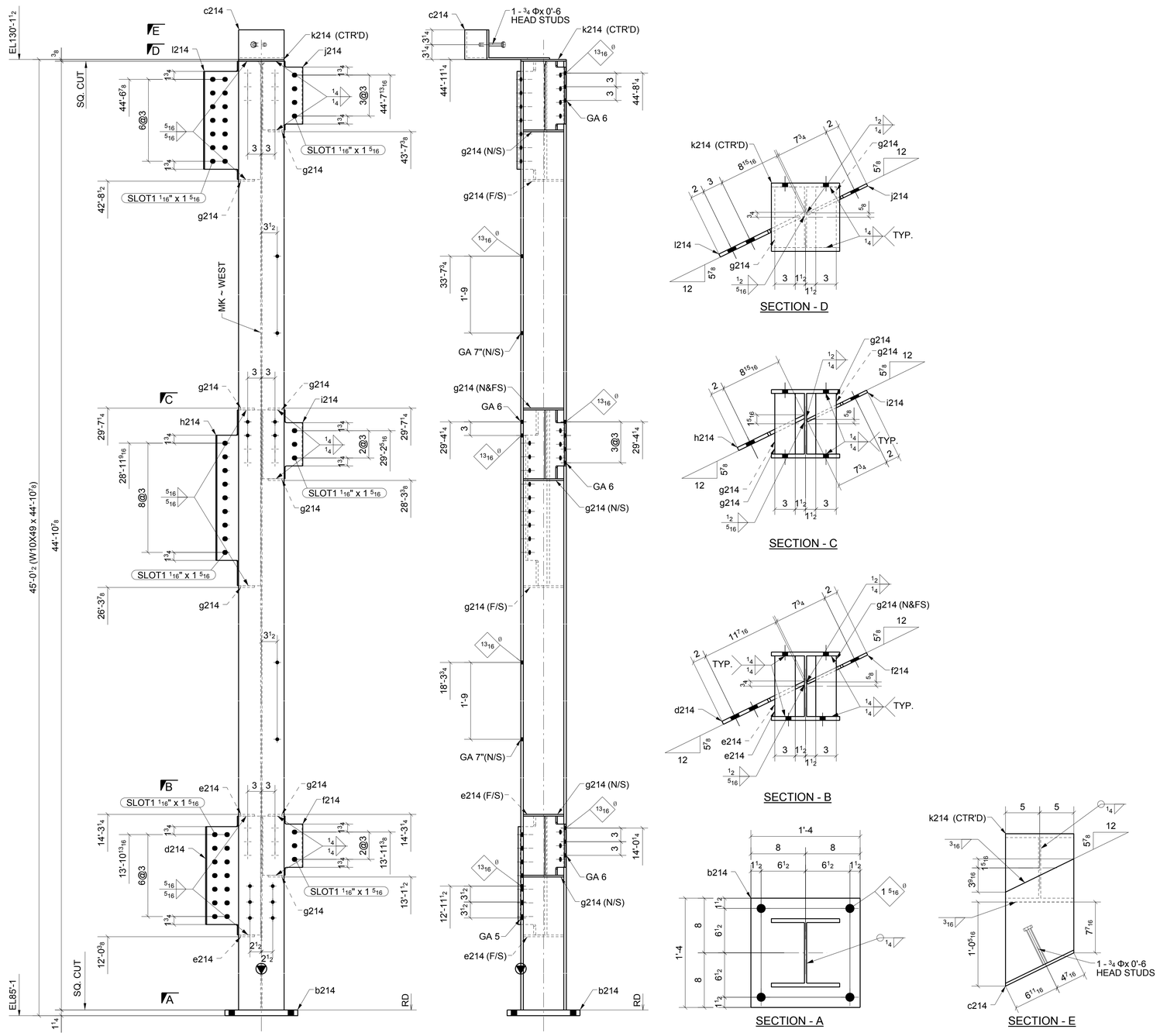
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 213



SECTION - D

SECTION - C

SECTION - B

SECTION - A

SECTION - E

ONE - COLUMN ~ 214A

LOCATION: (REF: E2A,E2B)
ONE @ 1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

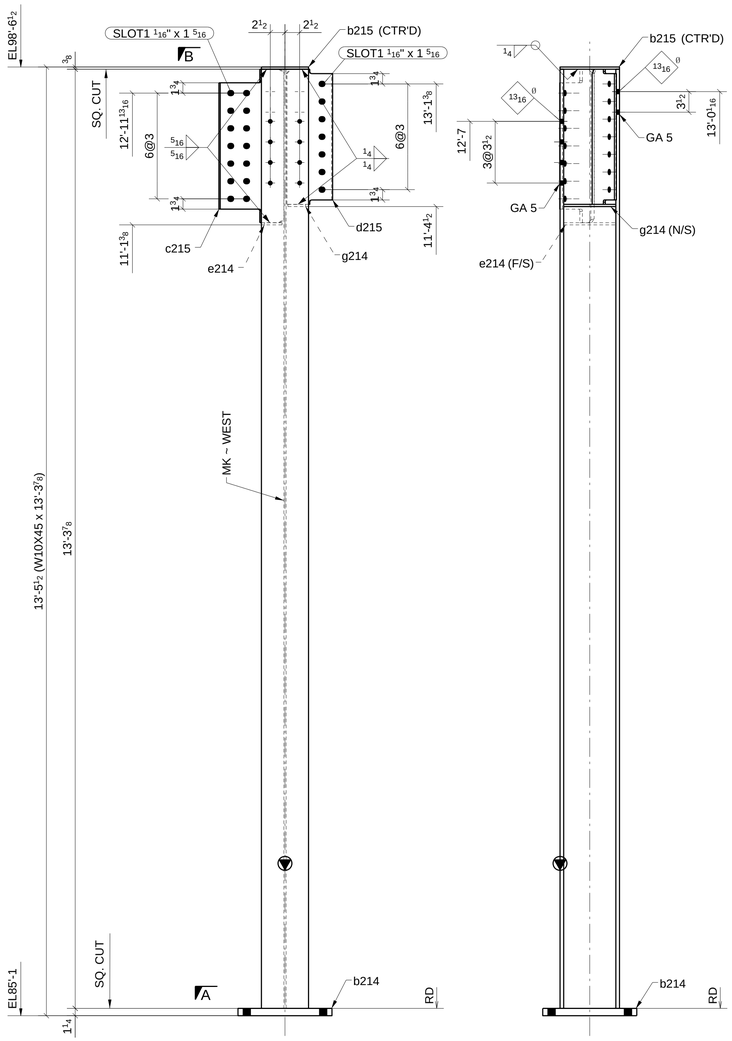
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	214A	W10X49	44'-10 7/8"	A992	
1	b214	PL1 1/4"X16"	1'-4"	A36	
1	c214	BPL3/8"*18"7/8	1'-5 3/16"	A36	
1	d214	PL1/2"X13 7/16"	2'-2 1/8"	A572-GR.50	
2	e214	PL3/8"X3"	0'-8 7/8"	A36	
1	f214	PL3/8"X9 3/4"	1'-1"	A36	
8	g214	PL3/8"X3"	0'-8 7/8"	A36	
1	h214	PL1/2"X10 15/16"	3'-2 5/8"	A36	
1	i214	PL3/8"X9 3/4"	1'-3 1/8"	A36	
1	j214	PL3/8"X9 3/4"	1'-3 1/8"	A36	
1	k214	PL3/8"X10"	0'-10"	A36	
1	l214	PL1/2"X13 15/16"	2'-2"	A36	
1		3/4" STUD	0'-6"		

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 214



SECTION - B

SECTION - A

ONE - COLUMN ~ 215A

LOCATION: (REF: E2A,E2B)
ONE @ 3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	215A	W10X45	13'-3 7/8"	A992	
1	b214	PL1 1/4"X16"	1'-4"	A36	
1	b215	PL3/8"X8"	0'-10 1/8"	A36	
1	c215	PL1/2"X12 5/16"	2'-2 1/8"	A572-GR.50	
1	d215	PL3/8"X8 5/8"	1'-11"	A36	
1	e214	PL3/8"X3"	0'-8 7/8"	A36	
1	g214	PL3/8"X3"	0'-8 7/8"	A36	

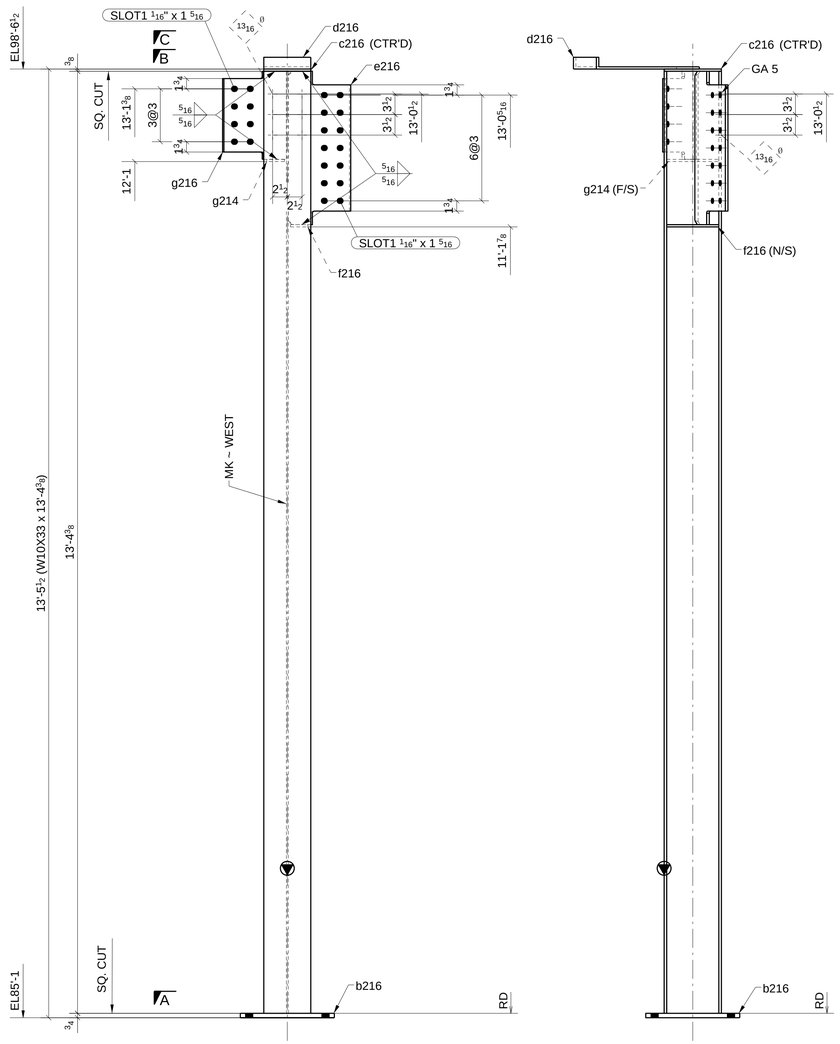
Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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:	

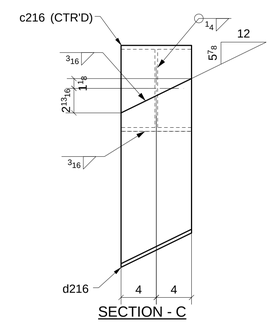
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 215



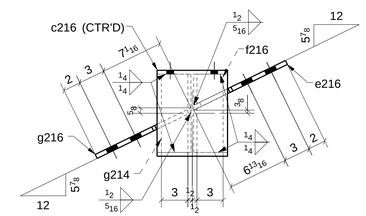
ONE - COLUMN ~ 216A

LOCATION: (REF: E2A,E2B)

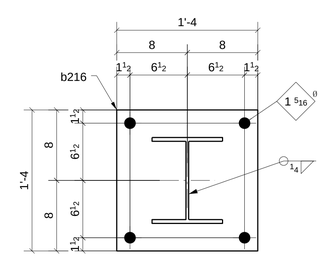
ONE @ 2/4-A.5



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	216A	W10X33	13'-4 3/8"	A992	
1	b216	PL3/4"X16"	1'-4"	A36	
1	c216	PL3/8"X8"	0'-9 3/4"	A36	
1	d216	BPL3/8""*17"3/4	1'-4 9/16"	A36	
1	e216	PL1/2"X11 13/16"	2'-2 1/8"	A572-GR.50	
1	f216	PL3/8"X3"	0'-8 7/8"	A36	
1	g214	PL3/8"X3"	0'-8 7/8"	A36	
1	g216	PL1/2"X12 1/16"	1'-3"	A36	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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

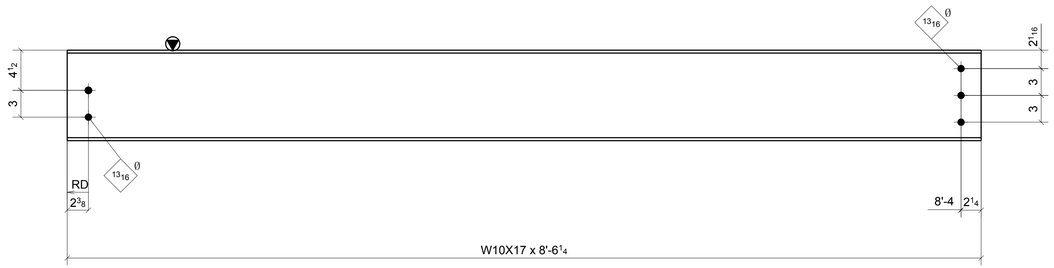
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

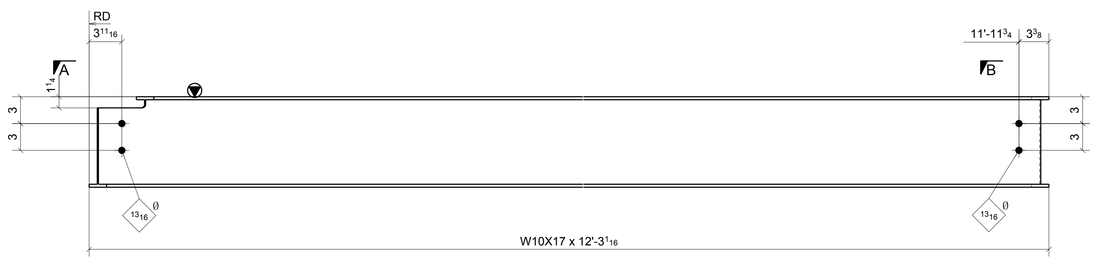
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

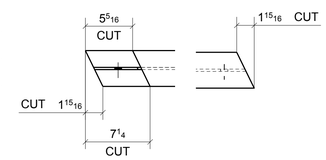
Job No. A16013 BAT: DWG#: 216



3 - BEAMS ~ 217A

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7/C-C.3

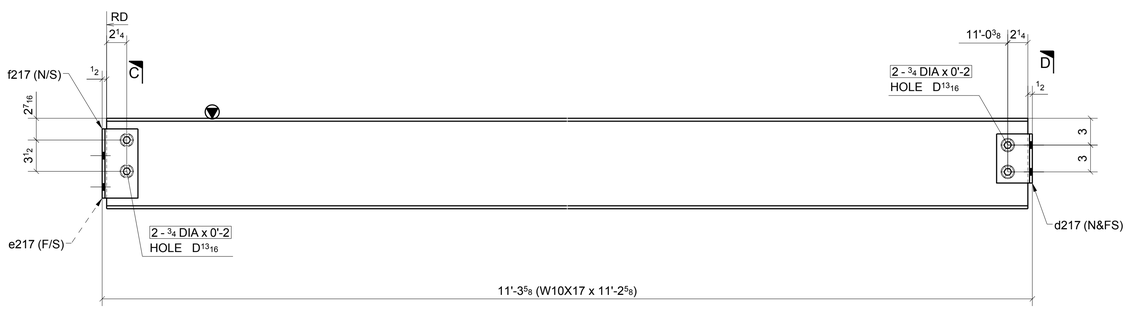


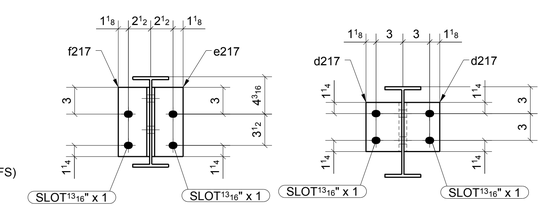


SECTION - A SECTION - B

3 - BEAMS ~ 217B

LOCATION: (REF: E2A)
ONE @ 2-2.6/4-A.5
ONE @ 2-2.6/4-A.5
ONE @ 2.6-3/4-A.5





SECTION - C SECTION - D

ONE - BEAM ~ 217C

LOCATION: (REF: E2A)
ONE @ 3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	217A	W10X17	8'-6 1/4"	A992	
3	217B	W10X17	12'-3 1/16"	A992	
1	217C	W10X17	11'-2 5/8"	A992	
2	d217	L4X4X5/16	0'-5 1/2"	A36	
1	e217	L4X3-1/2X5/16	0'-7 3/4"	A36	
1	f217	L4X3-1/2X5/16	0'-7 3/4"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	

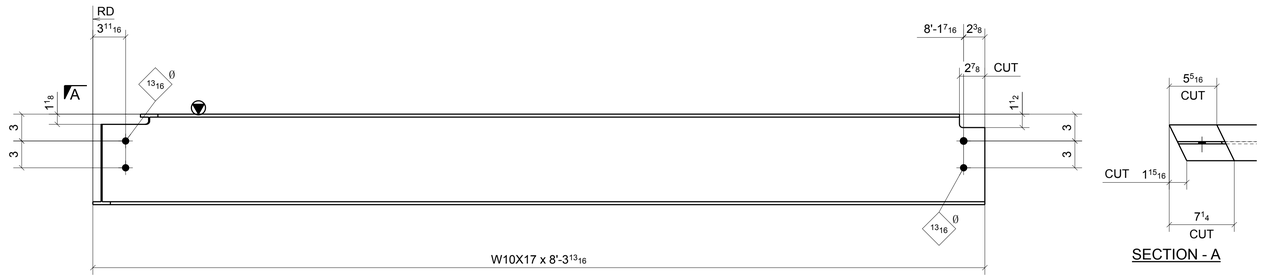
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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.

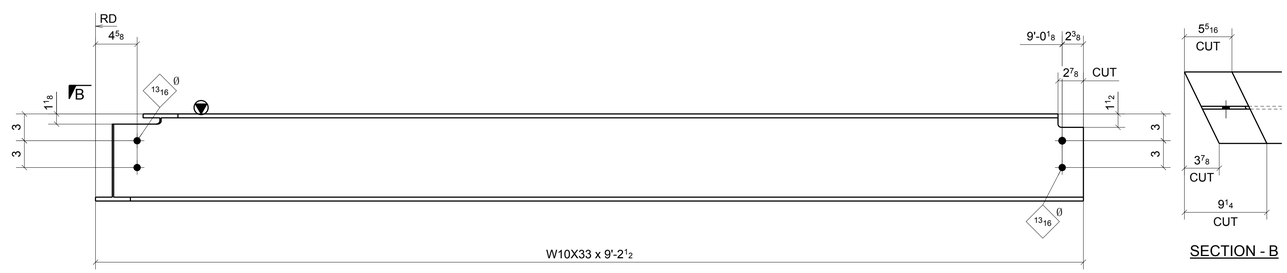
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 217



SECTION - A

ONE - BEAM ~ 218A

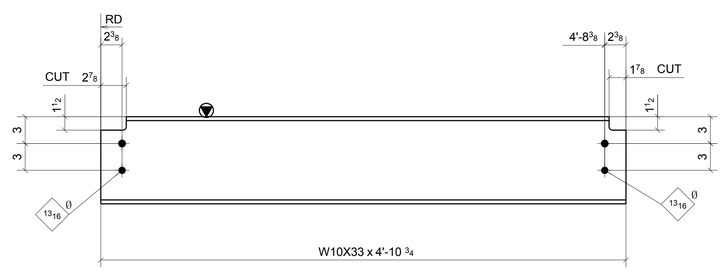
LOCATION: (REF: E2A)
ONE @ 2.6-3/A.5-B.3



SECTION - B

ONE - BEAM ~ 218B

LOCATION: (REF: E2A)
ONE @ 2.6-3/A.5-B.3



ONE - BEAM ~ 218C

LOCATION: (REF: E2A)
ONE @ 2.6-3/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	218A	W10X17	8'-3 13/16"	A992	
1	218B	W10X33	9'-2 1/2"	A992	
1	218C	W10X33	4'-10 3/4"	A992	

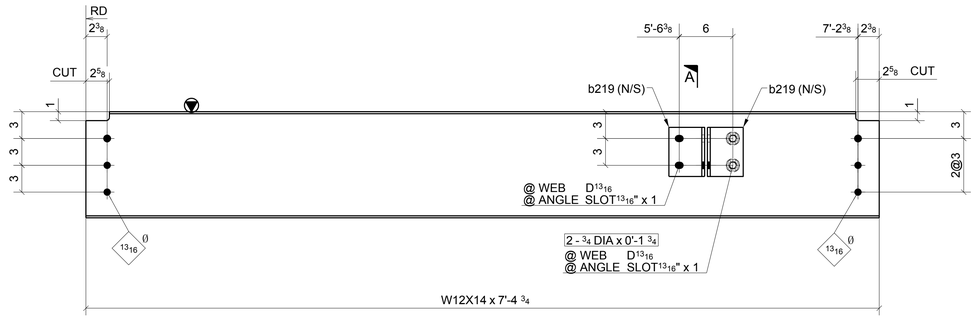
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

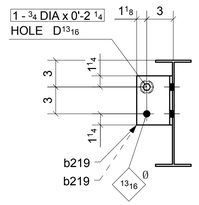
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 218

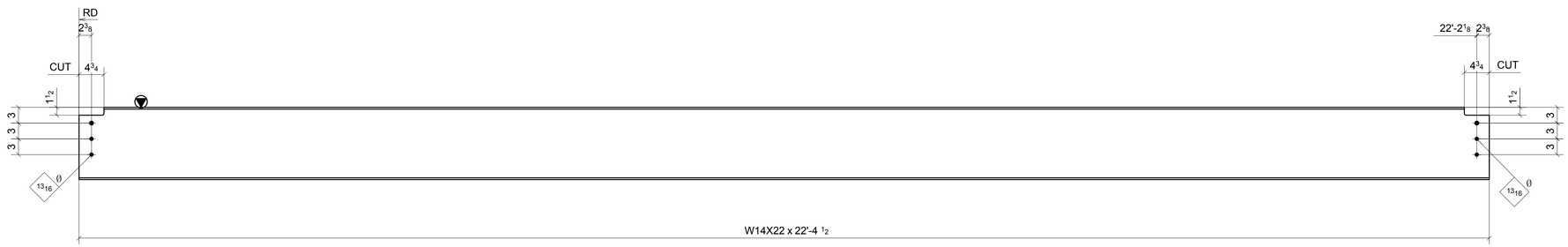


ONE - BEAM ~ 219A

LOCATION: (REF: E2A)
ONE @ 2.6-3/B.3-C

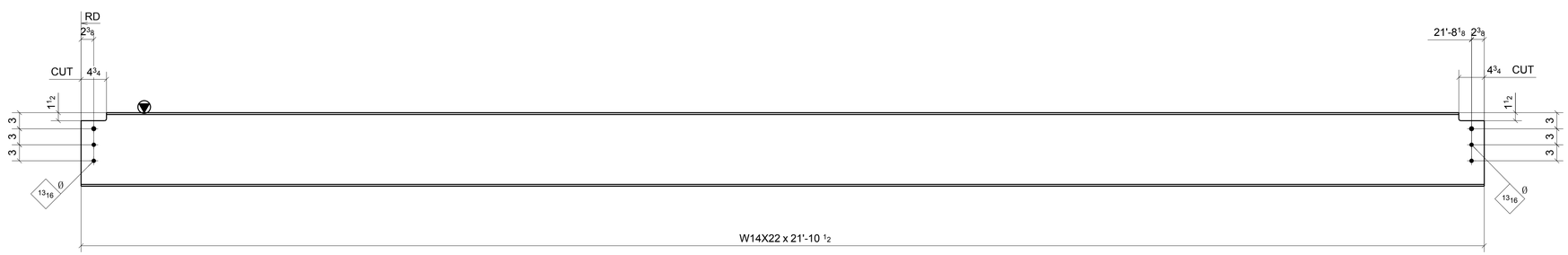


SECTION - A



ONE - BEAM ~ 219B

LOCATION: (REF: E2A)
ONE @ 1.7/A.5-B.3



ONE - BEAM ~ 219C

LOCATION: (REF: E2A)
ONE @ 1.7/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	219A	W12X14	7'-4 3/4"	A992	
2	b219	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	219B	W14X22	22'-4 1/2"	A992	
1	219C	W14X22	21'-10 1/2"	A992	

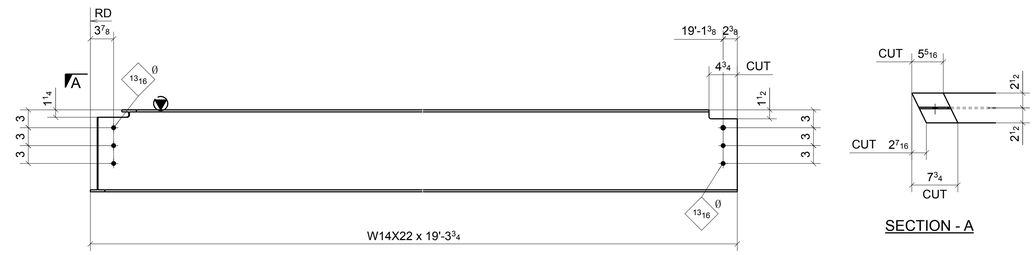
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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.

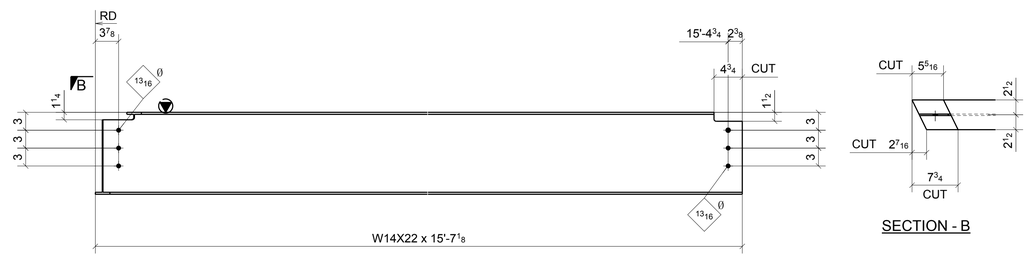
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 219



SECTION - A

ONE - BEAM ~ 220A

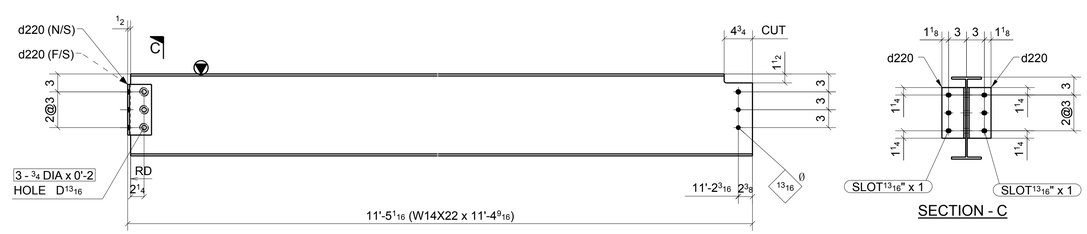
LOCATION: (REF: E2A)
ONE @ 1.7-1.9/4-A.5



SECTION - B

ONE - BEAM ~ 220B

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/4-A.5



SECTION - C

ONE - BEAM ~ 220C

LOCATION: (REF: E2A)
ONE @ 1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

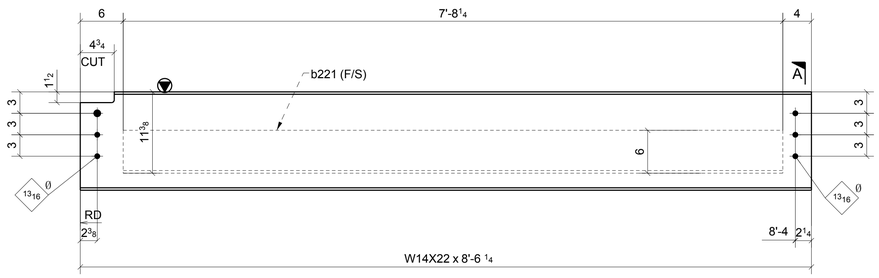
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	220A	W14X22	19'-3 3/4"	A992	
1	220B	W14X22	15'-7 1/8"	A992	
1	220C	W14X22	11'-4 9/16"	A992	
2	d220	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	

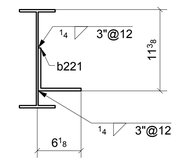
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL		05/30/16
Sequence: 2		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: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 220

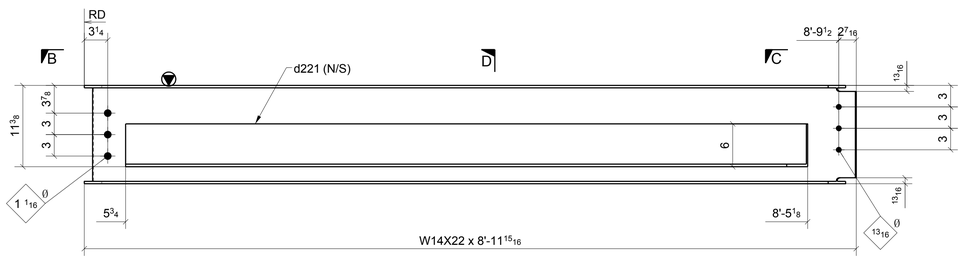


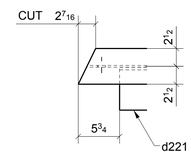


SECTION - A

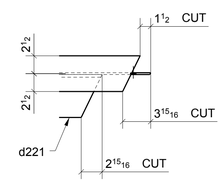
ONE - BEAM ~ 221A

LOCATION: (REF: E2A)
ONE @ 1.9/C-C.3

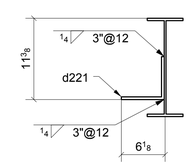




SECTION - B



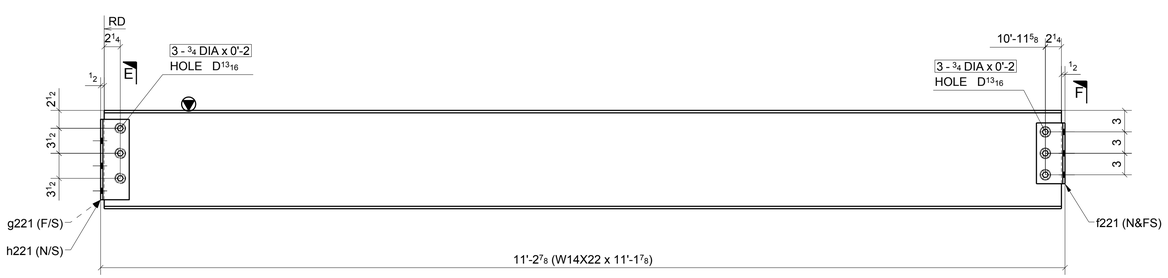
SECTION - C

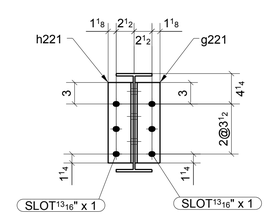


SECTION - D

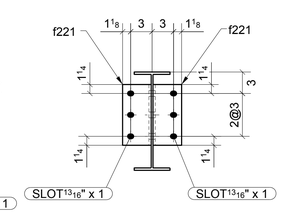
ONE - BEAM ~ 221B

LOCATION: (REF: E2A)
ONE @ 1.9-2/4-A.5





SECTION - E



SECTION - F

ONE - BEAM ~ 221C

LOCATION: (REF: E2A)
ONE @ 2/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	221A	W14X22	8'-6 1/4"	A992	
1	b221	L6X6X3/8	7'-8 1/4"	A36	
1	221B	W14X22	8'-11 15/16"	A992	
1	d221	L6X6X3/8	7'-11 3/8"	A36	
1	221C	W14X22	11'-1 7/8"	A992	
2	f221	L4X4X5/16	0'-8 1/2"	A36	
1	g221	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	h221	L4X3-1/2X5/16	0'-11 1/4"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N TC	

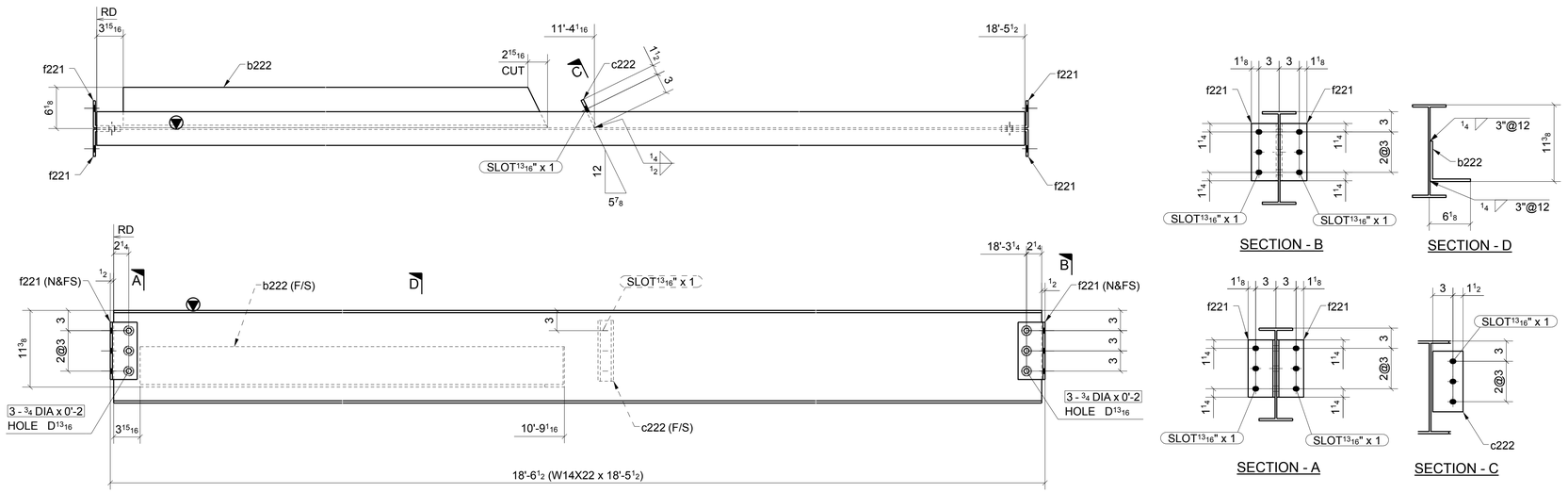
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A FOR APPROVAL 05/30/16

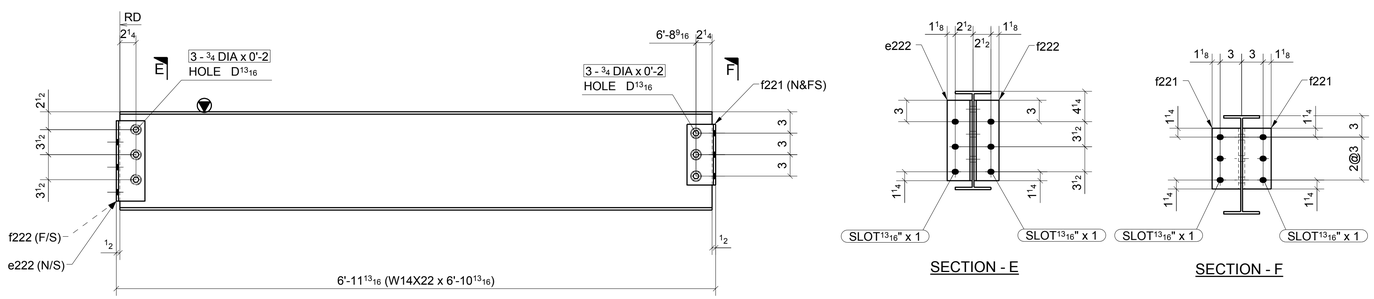
Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 221



ONE - BEAM ~ 222A

LOCATION: (REF: E2A)
ONE @ 2/4-A.5



ONE - BEAM ~ 222B

LOCATION: (REF: E2A)
ONE @ 2/C-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

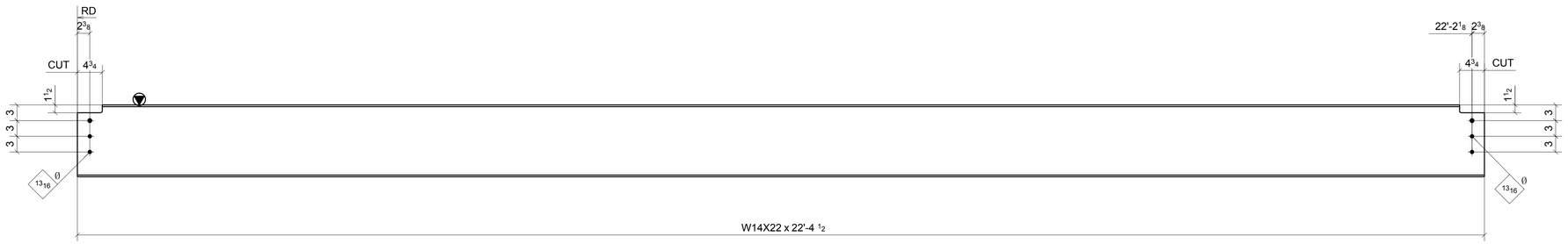
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	222A	W14X22	18'-5 1/2"	A992	
1	b222	L6X6X3/8	10'-5 1/8"	A36	
1	c222	PL3/8"X4 1/2"	0'-9"	A36	
4	f221	L4X4X5/16	0'-8 1/2"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	222B	W14X22	6'-10 13/16"	A992	
1	e222	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	f221	L4X4X5/16	0'-8 1/2"	A36	
1	f222	L4X3-1/2X5/16	0'-11 1/4"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

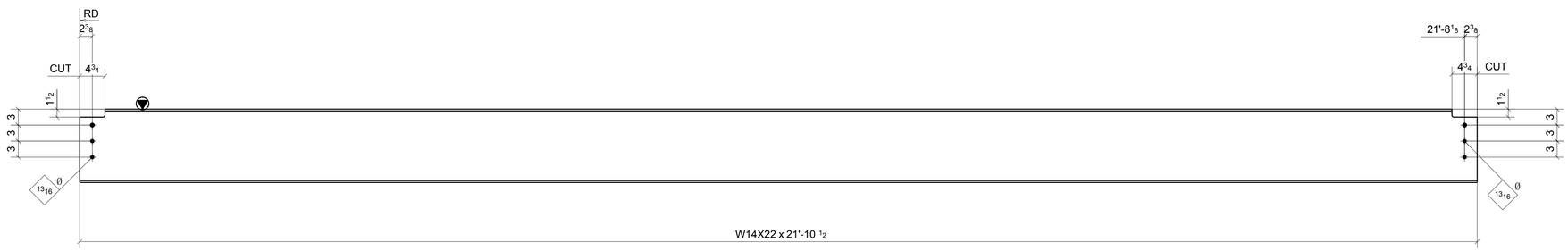
A	FOR APPROVAL		05/30/16
Sequence:	2	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 222



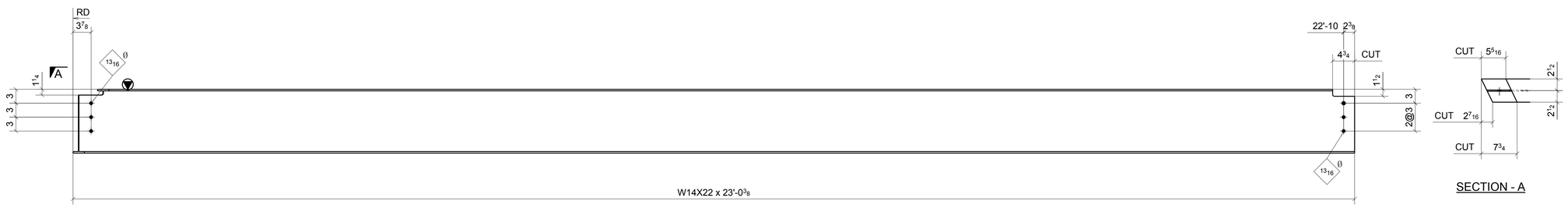
ONE - BEAM ~ 223A

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/A.5-B.3



ONE - BEAM ~ 223B

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/B.3-C



SECTION - A

ONE - BEAM ~ 223C

LOCATION: (REF: E2A)
ONE @ 1.7/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	223A	W14X22	22'-4 1/2"	A992	
1	223B	W14X22	21'-10 1/2"	A992	
1	223C	W14X22	23'-0 3/8"	A992	

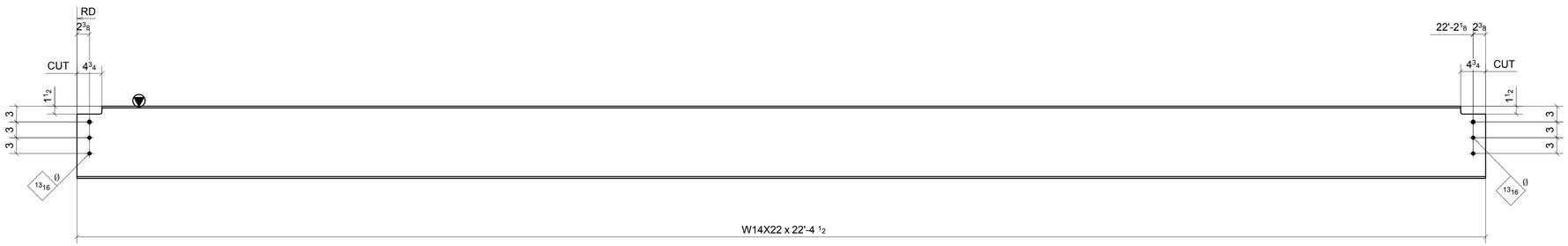
Romac By: _____ Checked By: _____
Beamline By: _____ Checked By: _____

A	FOR APPROVAL	05/30/16

Sequence: 2 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: _____

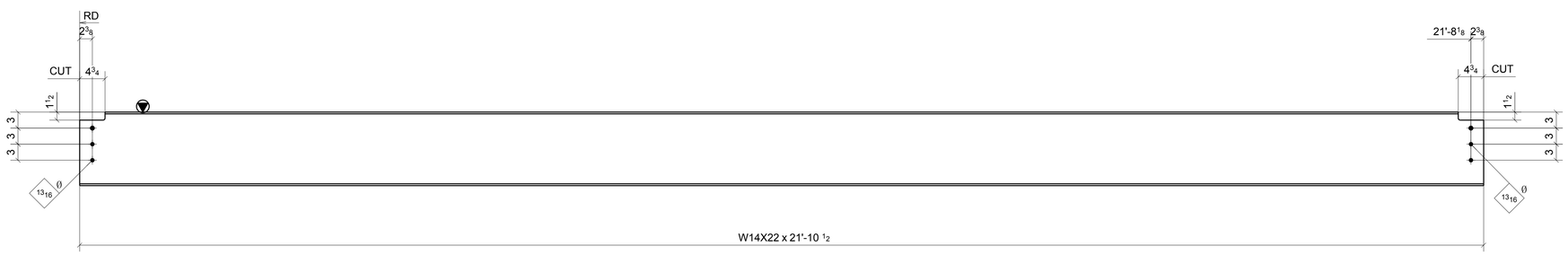
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: _____ DWG#: 223



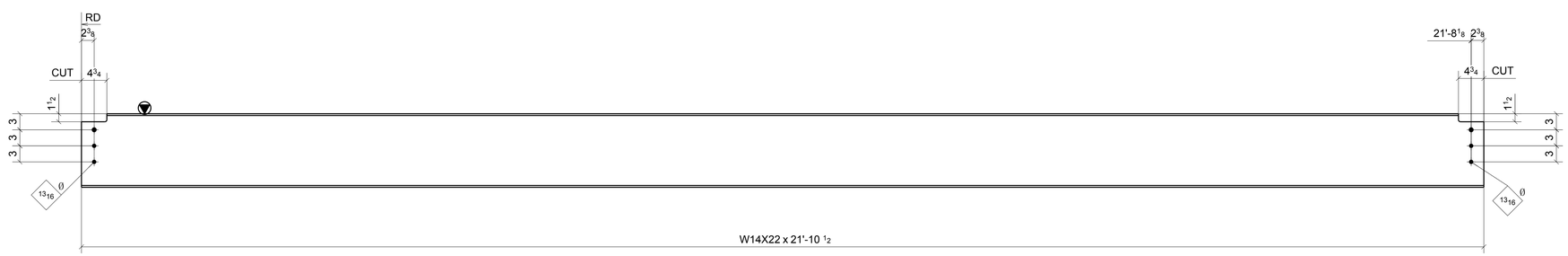
ONE - BEAM ~ 224A

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/A.5-B.3



ONE - BEAM ~ 224B

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/B.3-C



ONE - BEAM ~ 224C

LOCATION: (REF: E2A)
ONE @ 1.9/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

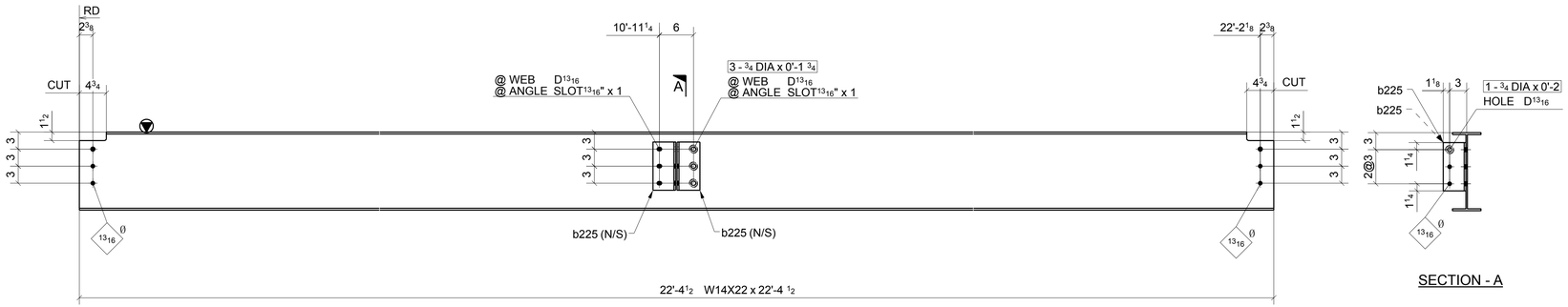
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	224A	W14X22	22'-4 1/2"	A992	
1	224B	W14X22	21'-10 1/2"	A992	
1	224C	W14X22	21'-10 1/2"	A992	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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:	

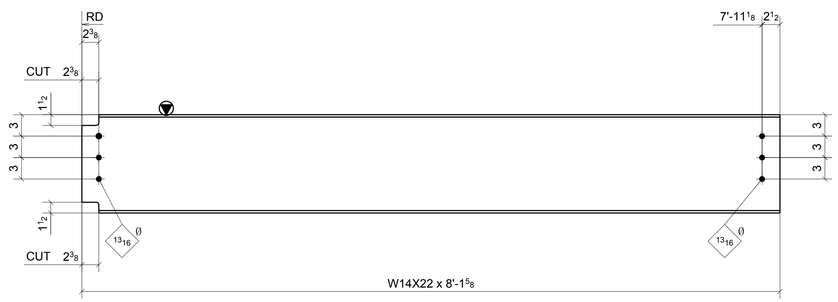
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 224



ONE - BEAM ~ 225A

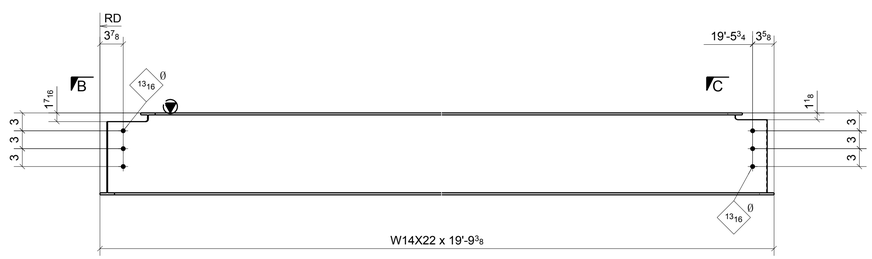
LOCATION: (REF: E2A)
ONE @ 1.9/A.5-B.3

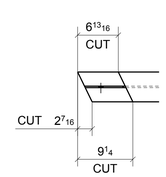
SECTION - A



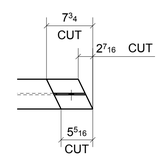
ONE - BEAM ~ 225B

LOCATION: (REF: E2A)
ONE @ 1.9-2/A.5-B.3





SECTION - B



SECTION - C

4 - BEAMS ~ 225C

LOCATION: (REF: E2A)
ONE @ 2-2.6/4-B.3
ONE @ 2-2.6/4-B.3
ONE @ 2.6-3/4-B.3
ONE @ 2.6/4-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	225A	W14X22	22'-4 1/2"	A992	
2	b225	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	
1	225B	W14X22	8'-1 5/8"	A992	
4	225C	W14X22	19'-9 3/8"	A992	

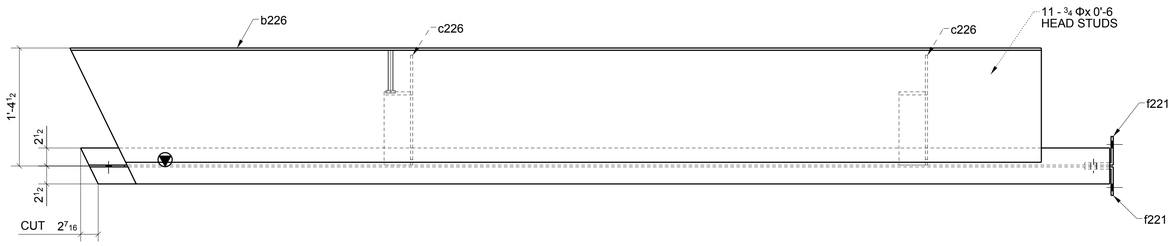
Romac By: Checked By:
Beamline By: Checked By:

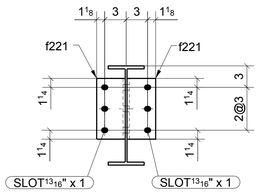
A FOR APPROVAL 05/30/16

Sequence: 2 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:

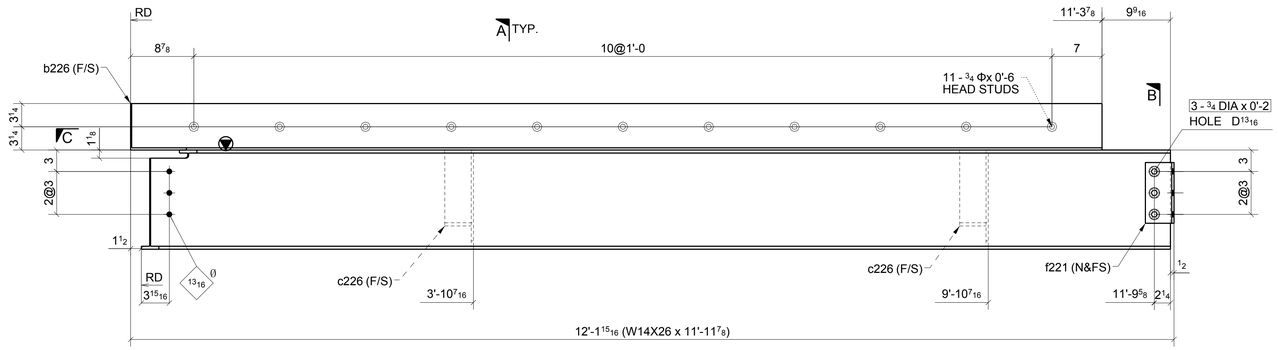
ATLAS IRON WORKS
ST. LOUIS, MO.

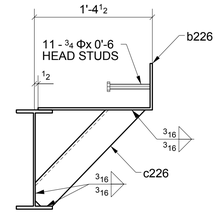
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 225



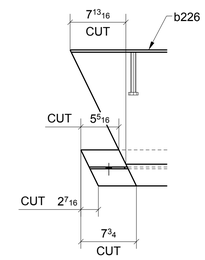


SECTION - B





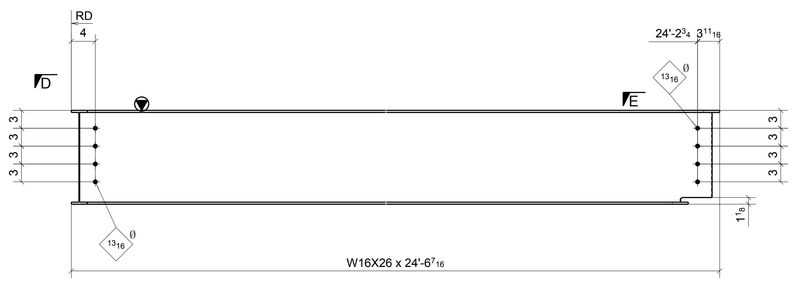
SECTION - A

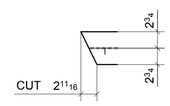


SECTION - C

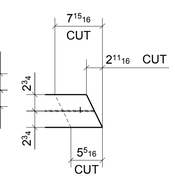
ONE - BEAM ~ 226A

LOCATION: (REF: E2A)
ONE @ 2.6/A.5-B.3





SECTION - D



SECTION - E

3 - BEAMS ~ 226B

LOCATION: (REF: E2A)
ONE @ 1.7-1.9/4-A.5
ONE @ 1.7-1.9/4-A.5
ONE @ 1.7/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	226A	W14X26	11'-11 7/8"	A992	
1	b226	PL5/16"X22 1/2"	11'-3 7/8"	A36	
2	c226	L4X4X5/16	1'-7 13/16"	A36	
2	f221	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
11		3/4" STUD	0'-6"		
3	226B	W16X26	24'-6 7/16"	A992	

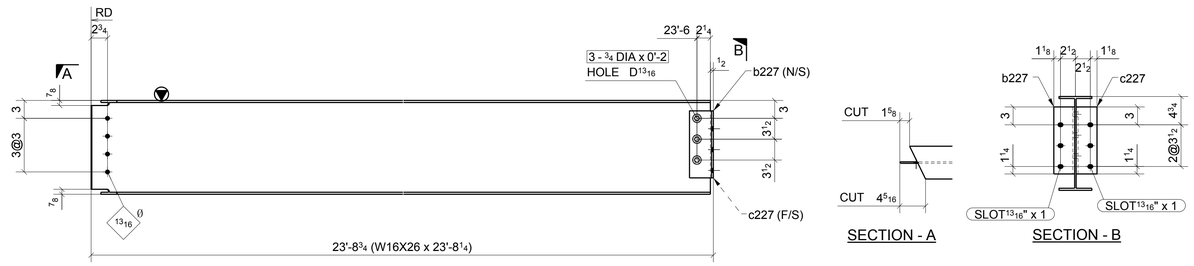
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	05/30/16

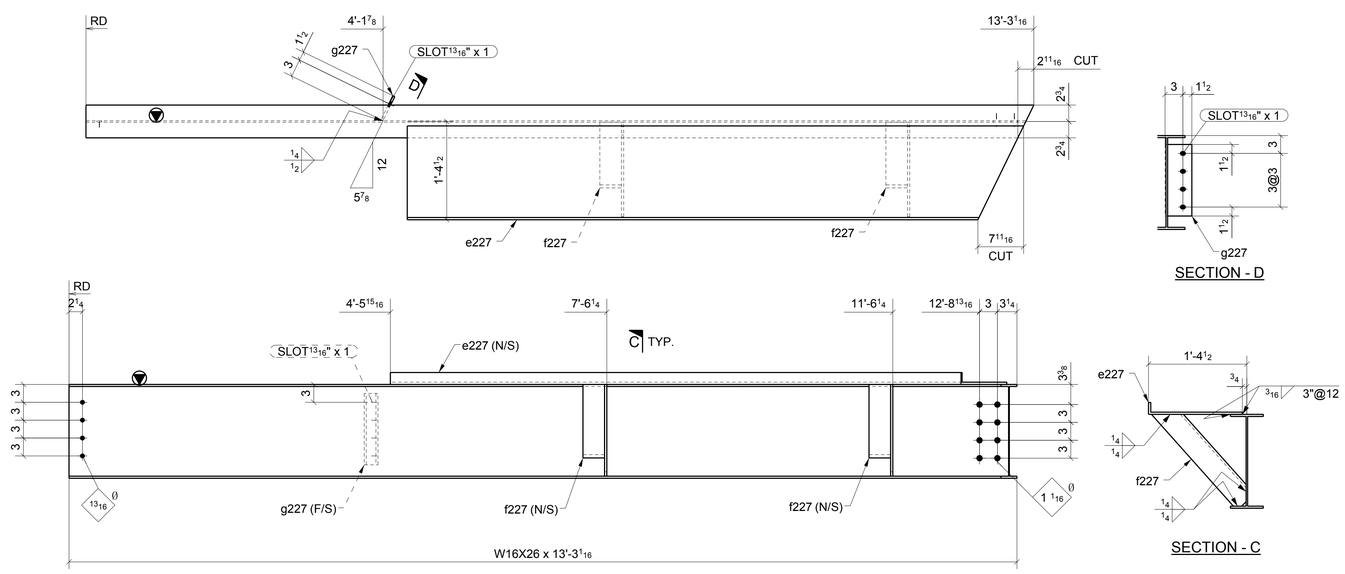
Sequence: 2 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 226



ONE - BEAM ~ 227A

LOCATION: (REF: E2A)
ONE @ 1.9/4-A.5



ONE - BEAM ~ 227B

LOCATION: (REF: E2A)
ONE @ 1.7-2/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

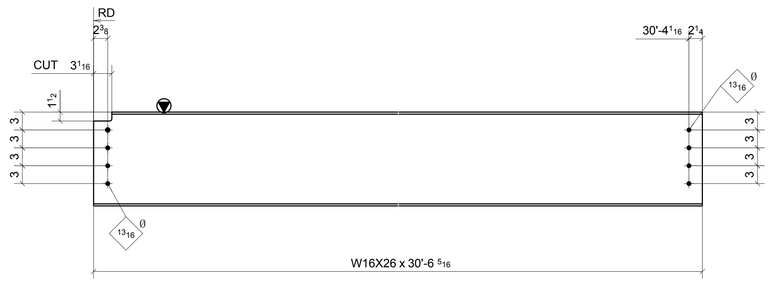
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	227A	W16X26	23'-8 1/4"	A992	
1	b227	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	c227	L4X3-1/2X5/16	0'-11 1/4"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	227B	W16X26	13'-3 1/16"	A992	
1	e227	BPL3/8"X17 3/4"	8'-7 7/16"	A36	
2	f227	L4X4X3/8	1'-9 9/16"	A36	
1	g227	PL3/8"X4 1/2"	1'-0"	A36	

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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:	

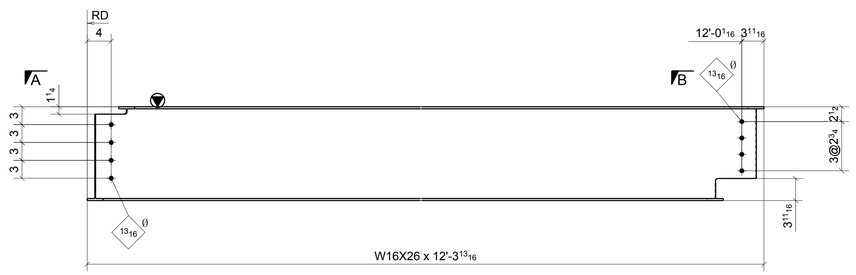
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 227



2 - BEAMS ~ 228B

LOCATION: CAMBER=3/4" (REF: E2A)
ONE @ 2-2.6/B.3-C.3
ONE @ 2-2.6/B.3-C.3



SECTION - A

SECTION - B

ONE - BEAM ~ 228C

LOCATION: (REF: E2A)
ONE @ 2.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	228B	W16X26	30'-6 5/16"	A992	
1	228C	W16X26	12'-3 13/16"	A992	

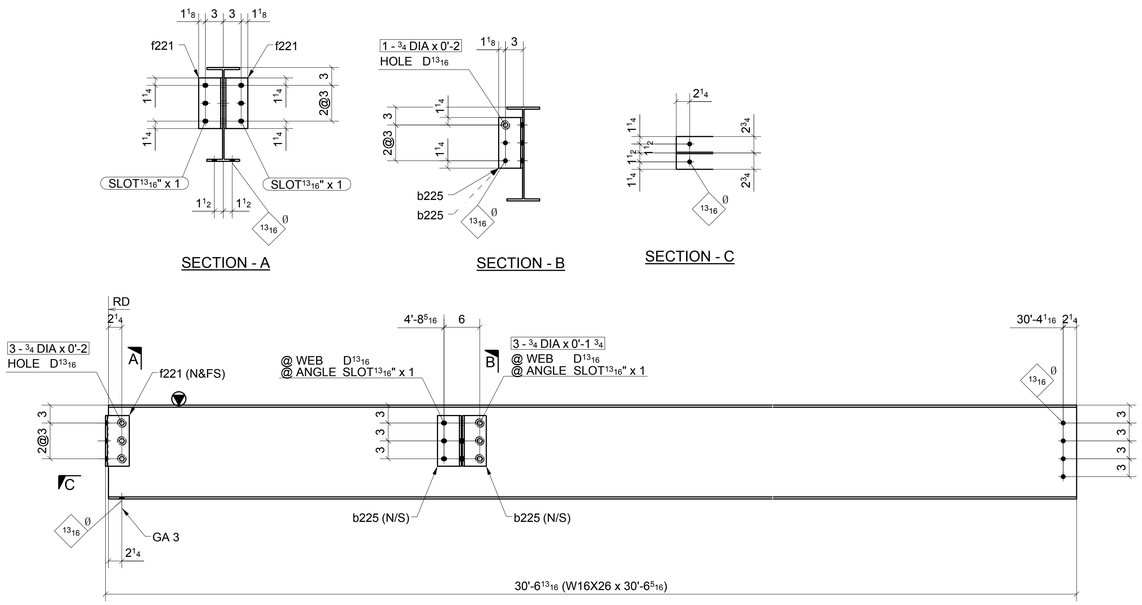
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

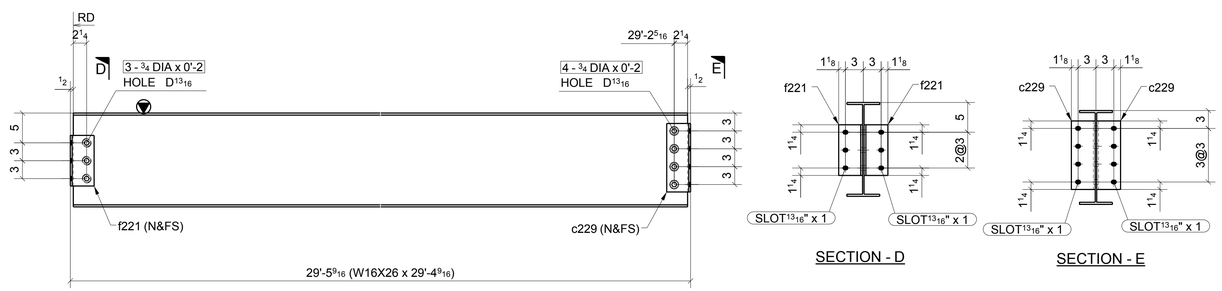
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 228



ONE - BEAM ~ 229A

LOCATION: ONE @ 2.6/B.3-C.3 CAMBER=3/4" (REF: E2A)



ONE - BEAM ~ 229B

LOCATION: ONE @ 3/B.3-C.3 CAMBER=3/4" (REF: E2A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	229A	W16X26	30'-6 5/16"	A992	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
2	f221	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N TC	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	
1		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	229B	W16X26	29'-4 9/16"	A992	
2	c229	L4X4X5/16	0'-11 1/2"	A36	
2	f221	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 05/30/16

Sequence: 2 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
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Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
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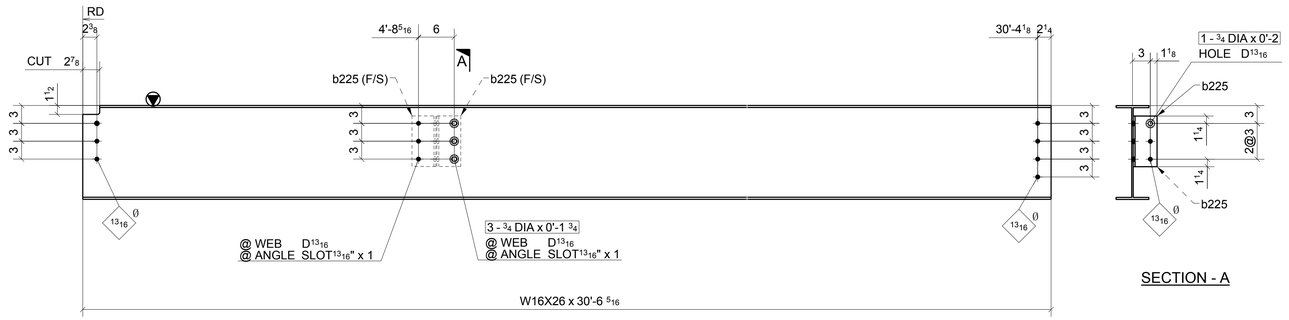
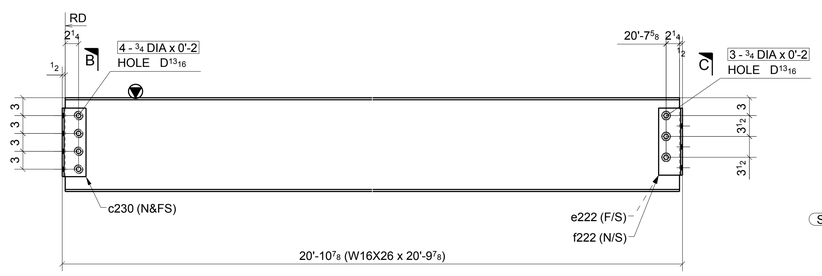
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 229



SECTION - A

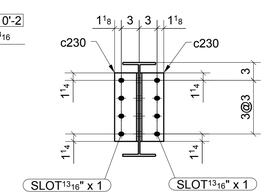
ONE - BEAM ~ 230A

LOCATION: CAMBER=3/4" (REF: E2A)
ONE @ 2.6-3/B.3-C.3

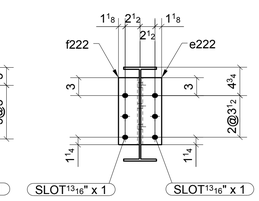


ONE - BEAM ~ 230B

LOCATION: (REF: E2A)
ONE @ 2/B.3-C



SECTION - B



SECTION - C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

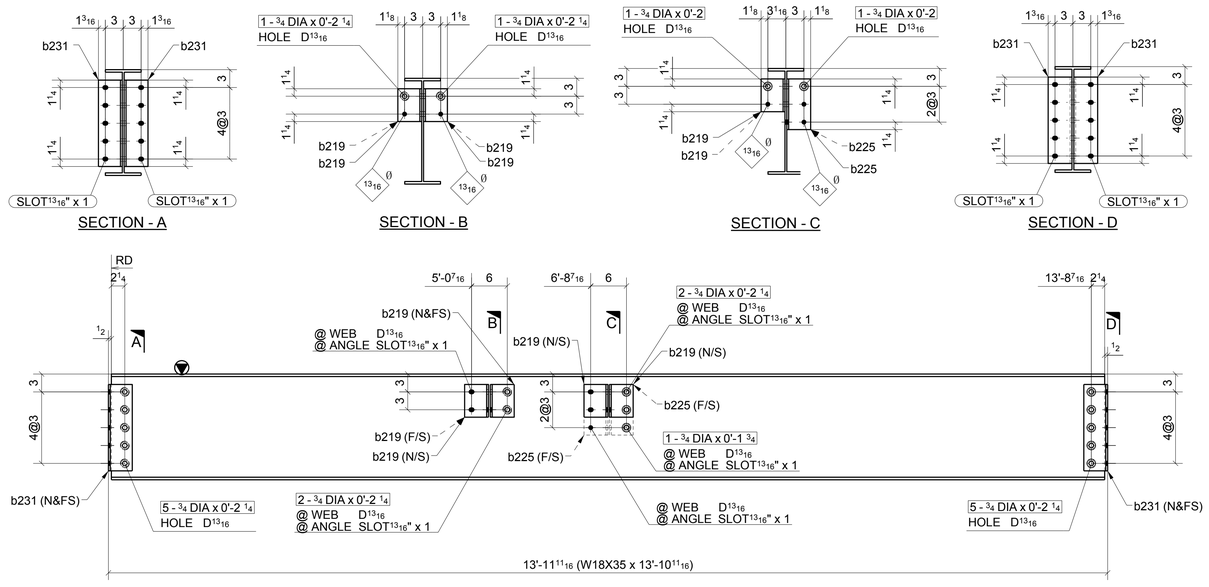
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	230A	W16X26	30'-6 5/16"	A992	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	230B	W16X26	20'-9 7/8"	A992	
2	c230	L4X4X5/16	0'-11 1/2"	A36	
1	e222	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f222	L4X3-1/2X5/16	0'-11 1/4"	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:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 230



ONE - BEAM ~ 231A

LOCATION:
ONE @ 2.6-3/B.3

(REF: E2A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	231A	W18X35	13'-10 11/16"	A992	
6	b219	L4X4X5/16	0'-5 1/2"	A36	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
4	b231	L4X4X5/16	1'-2 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 1/4"	A325N_TC	
10		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

Romac By: Checked By:

Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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

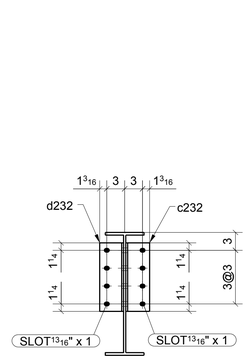
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

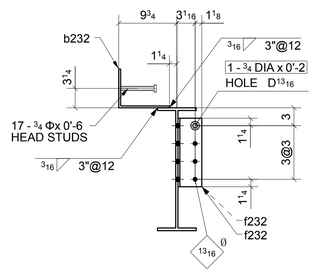
Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016

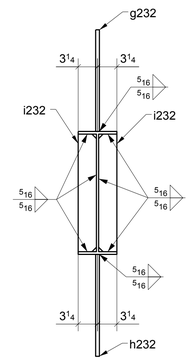
Job No. A16013 BAT: DWG#: 231



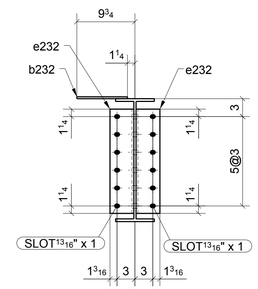
SECTION - A



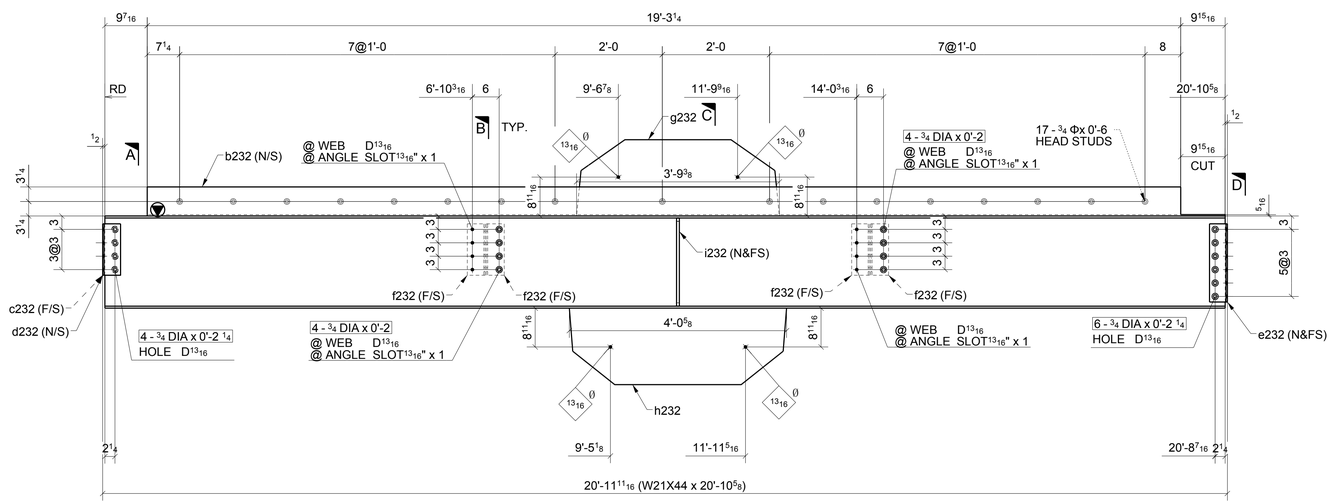
SECTION - B



SECTION - C



SECTION - D



ONE - BEAM ~ 232A

LOCATION: (REF: E2A)
ONE @ 2-2.6/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	232A	W21X44	20'-10 5/8"	A992	
1	b232	BPL5/16"*15	20'-1 3/16"	A36	
1	c232	L4X4X5/16	0'-11 1/2"	A36	
1	d232	L4X4X5/16	0'-11 1/2"	A36	
2	e232	L4X4X5/16	1'-5 1/2"	A36	
4	f232	L4X4X5/16	0'-11 1/2"	A36	
1	g232	PL5/8"X17 1/16"	3'-9 3/8"	A572-GR.50	
1	h232	PL5/8"X17 1/8"	4'-0 5/8"	A572-GR.50	
2	i232	PL5/8"X3 1/16"	1'-7 3/4"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
17		3/4" STUD	0'-6"		

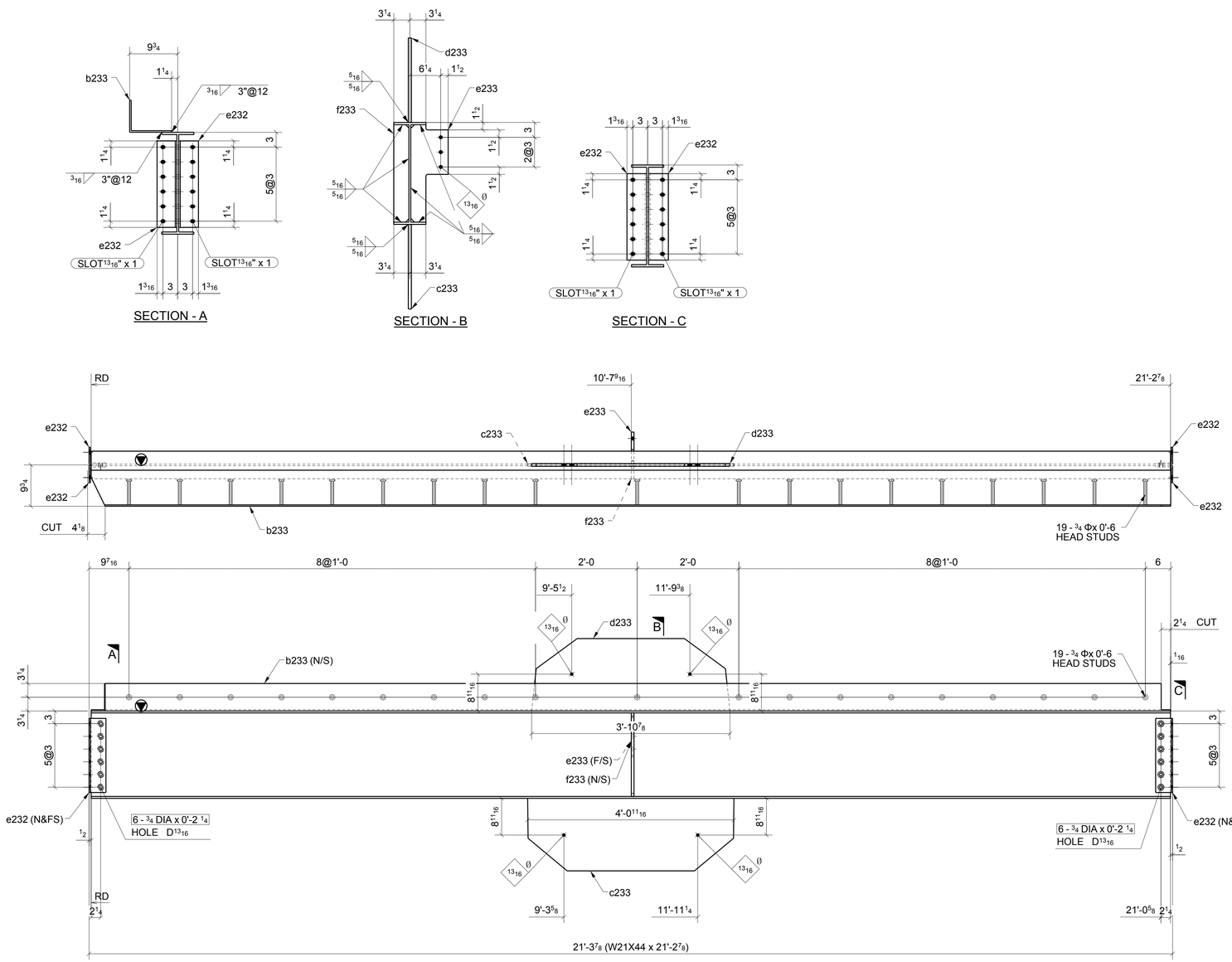
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 232



ONE - BEAM ~ 233A

LOCATION: (REF: E2A)
ONE @ 2/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	233A	W21X44	21'-2 7/8"	A992	
1	b233	BPL5/16""15	21'-2 15/16	A36	
1	c233	PL5/8"X17 1/8"	4'-0 11/16"	A572-GR.50	
1	d233	PL5/8"X17 1/16"	3'-10 7/8"	A572-GR.50	
4	e232	L4X4X5/16	1'-5 1/2"	A36	
1	e233	PL5/8"X7 9/16"	1'-7 3/4"	A36	
1	f233	PL5/8"X3 1/16"	1'-7 3/4"	A36	
12		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	05/30/16

Sequence: 2 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
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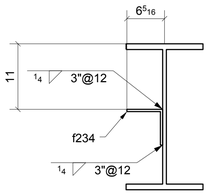
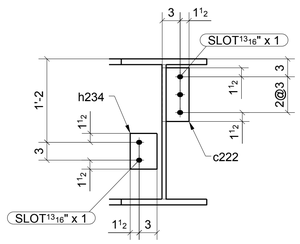
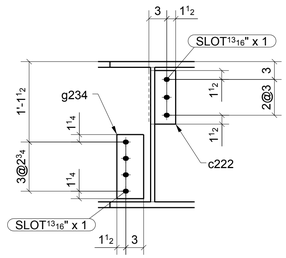
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 233



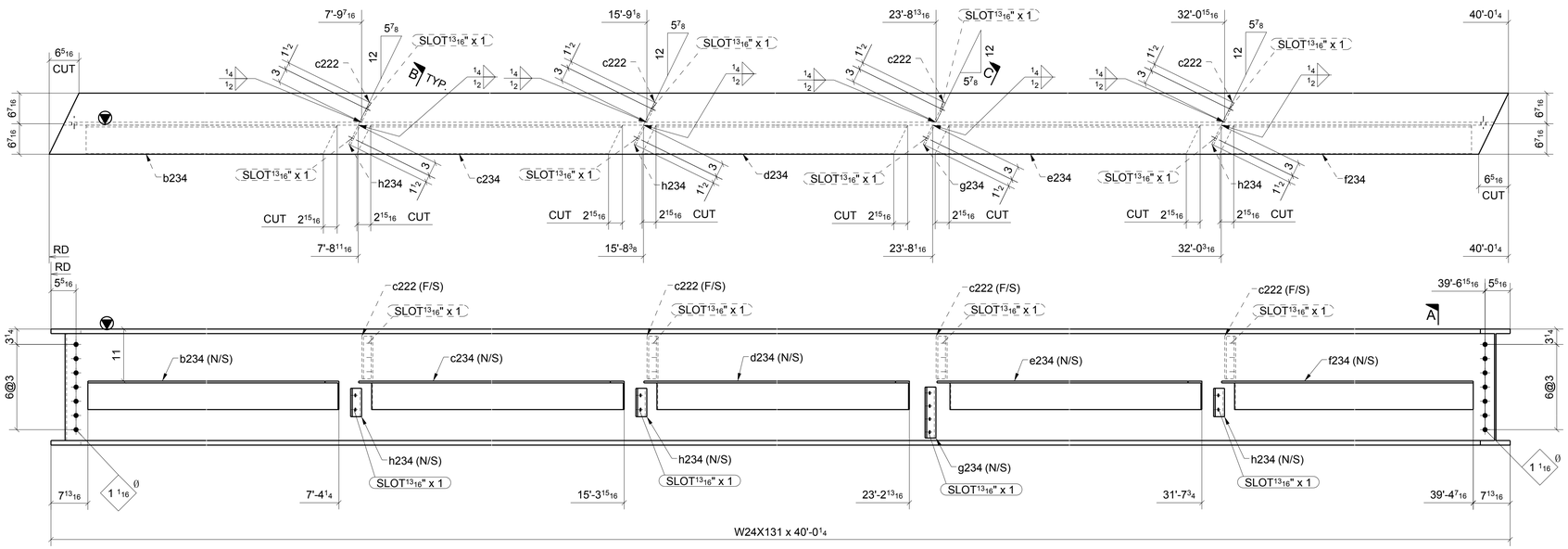
SECTION - A



SECTION - B



SECTION - C



ONE - BEAM ~ 234A

LOCATION:
ONE @ 2-3/4-A.5

(REF: E2A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	234A	W24X131	40'-0 1/4"	A992	
1	b234	L6X6X3/8	6'-8 7/16"	A36	
4	c222	PL3/8"X4 1/2"	0'-9"	A36	
1	c234	L6X6X3/8	7'-7 1/2"	A36	
1	d234	L6X6X3/8	7'-6 11/16"	A36	
1	e234	L6X6X3/8	7'-11 1/8"	A36	
1	f234	L6X6X3/8	7'-4 9/16"	A36	
1	g234	PL3/8"X4 1/2"	0'-10 3/4"	A36	
3	h234	PL3/8"X4 1/2"	0'-6"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	05/30/16

Sequence: 2 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
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Owner: WEBSTER UNIVERSITY
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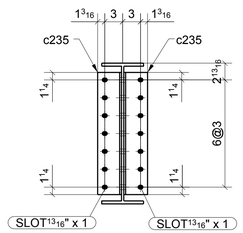
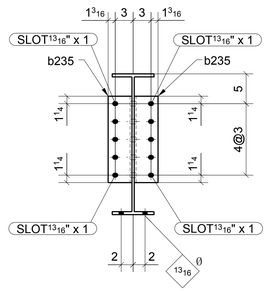
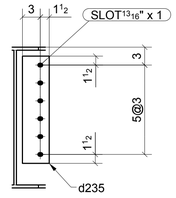
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: _____ DWG#: 234



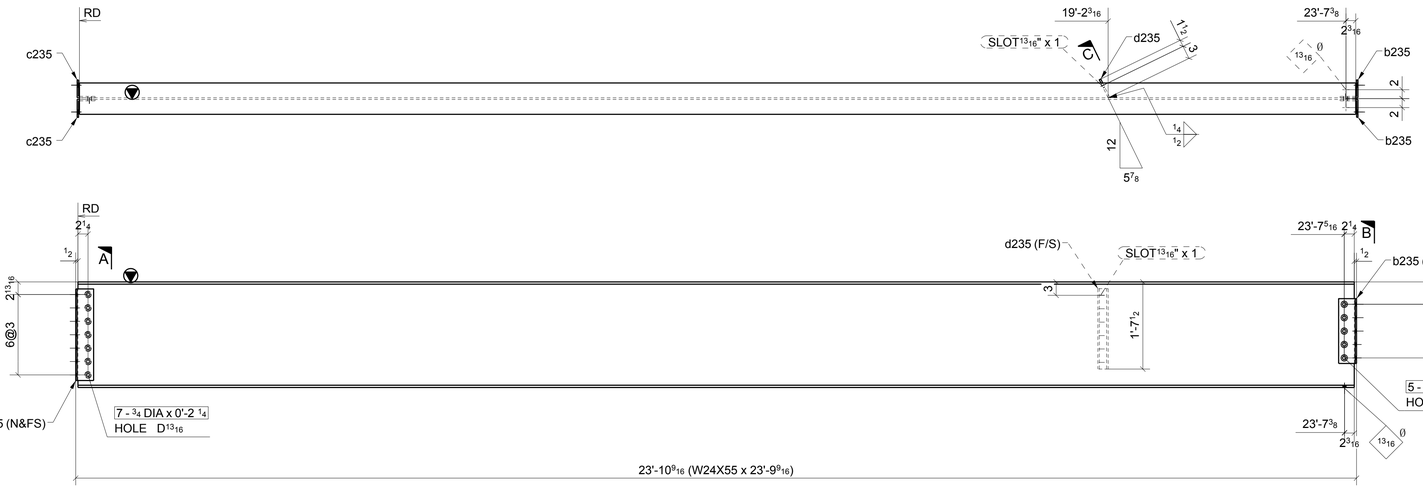
SECTION - A



SECTION - B



SECTION - C



ONE - BEAM ~ 235A

LOCATION: (REF: E2A)
ONE @ 3/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	235A	W24X55	23'-9 9/16"	A992	
2	b235	L4X4X5/16	1'-2 1/2"	A36	
2	c235	L4X4X5/16	1'-8 1/2"	A36	
1	d235	PL3/8"X4 1/2"	1'-6"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

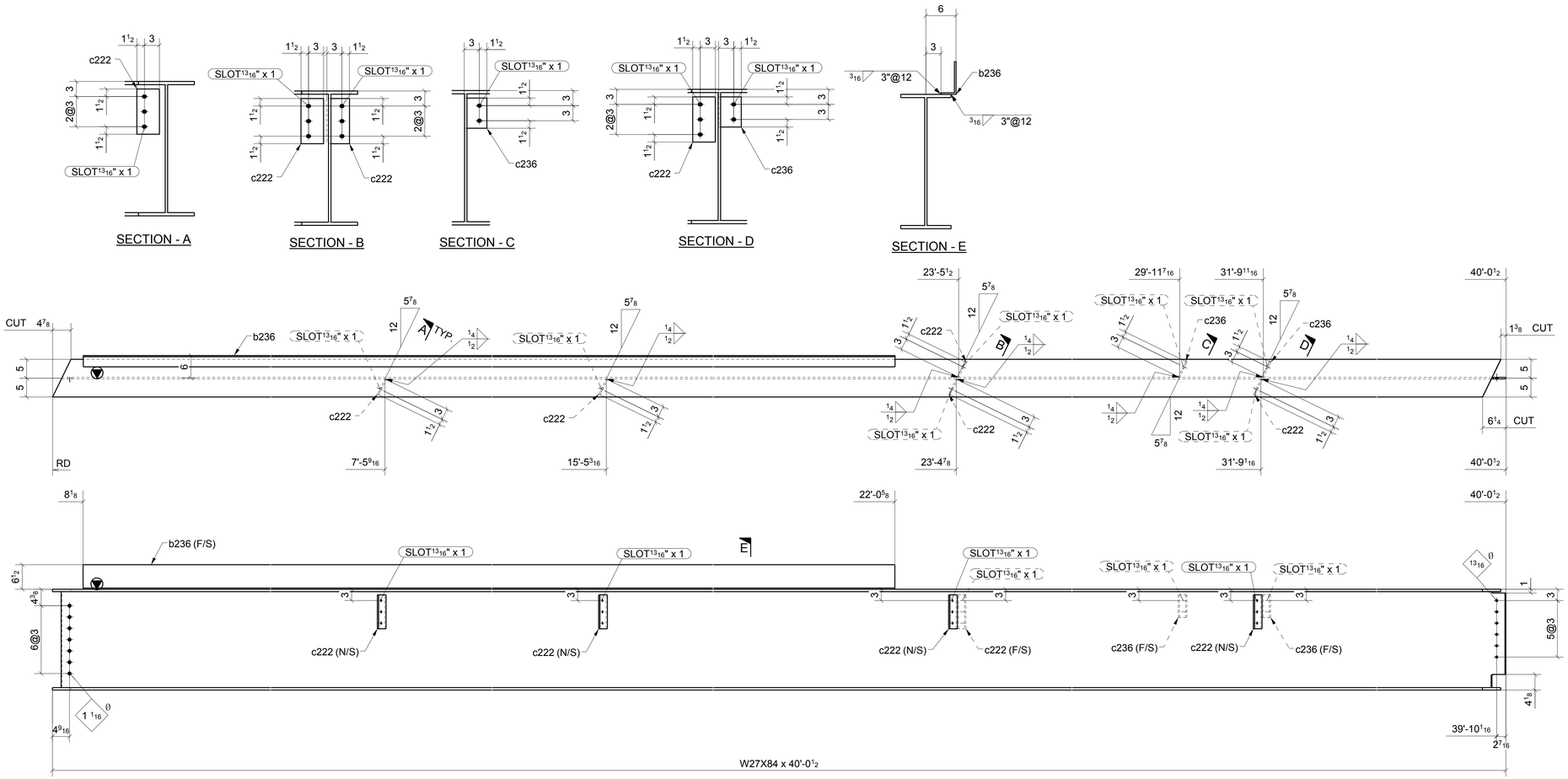
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 235



ONE - BEAM ~ 236A

LOCATION: (REF: E2A)
ONE @ 2-3/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	236A	W27X84	40'-0 1/2"	A992	
1	b236	PL5/16"X9 1/2"	21'-4 1/2"	A36	
5	c222	PL3/8"X4 1/2"	0'-9"	A36	
2	c236	PL3/8"X4 1/2"	0'-6"	A36	

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

A	FOR APPROVAL	05/30/16

Sequence: 2 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
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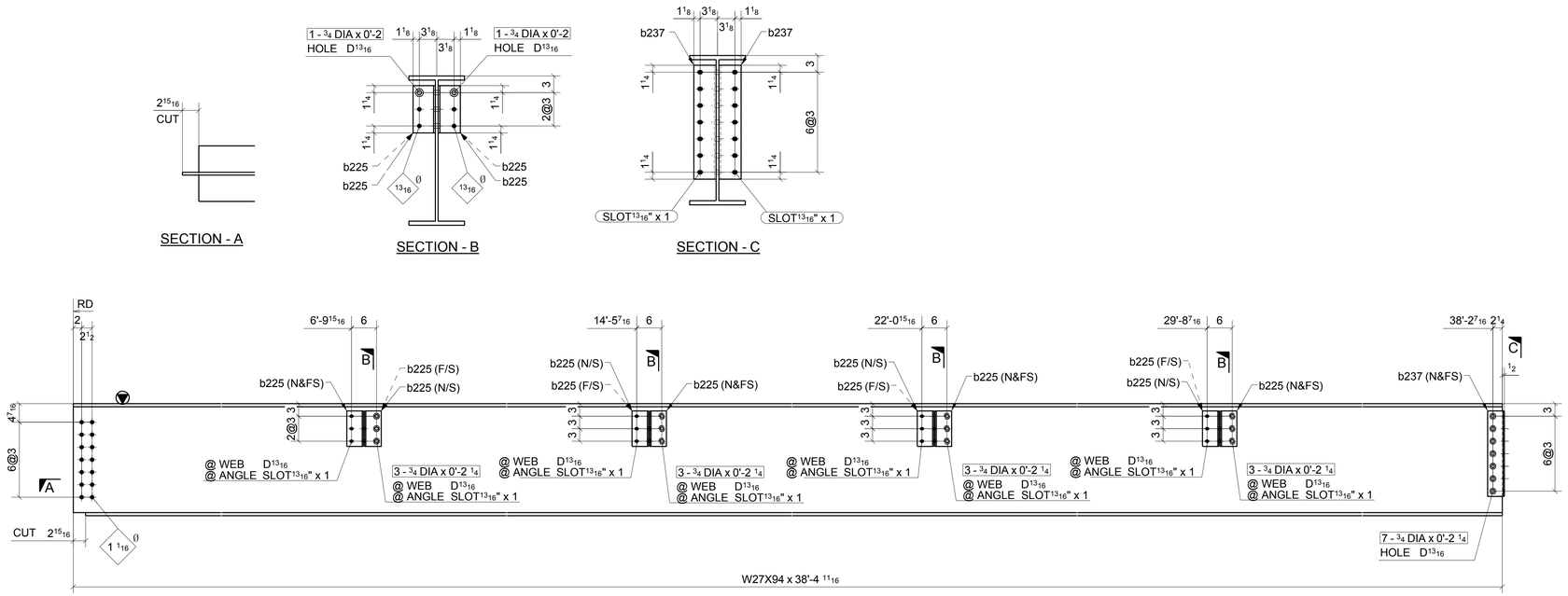
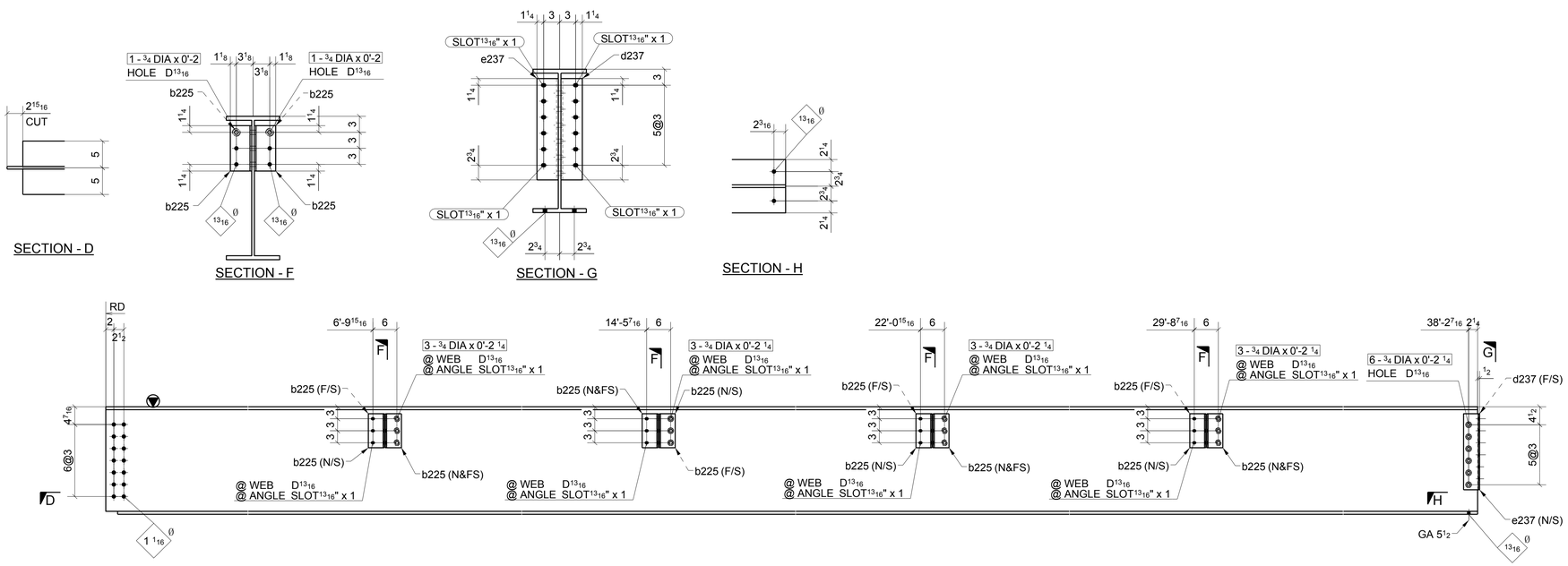
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 236



ONE - BEAM ~ 237A

LOCATION: (REF: E2A)
ONE @ 1.6-2/A.5



ONE - BEAM ~ 237B

LOCATION: (REF: E2A)
ONE @ 1.6-2/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	237A	W27X94	38'-4 11/16"	A992	
16	b225	L4X4X5/16	0'-8 1/2"	A36	
2	b237	L4X4X5/16	1'-8 1/2"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1	237B	W27X94	38'-4 11/16"	A992	
16	b225	L4X4X5/16	0'-8 1/2"	A36	
1	d237	L4X4X5/16	1'-7"	A36	
1	e237	L4X4X5/16	1'-7"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

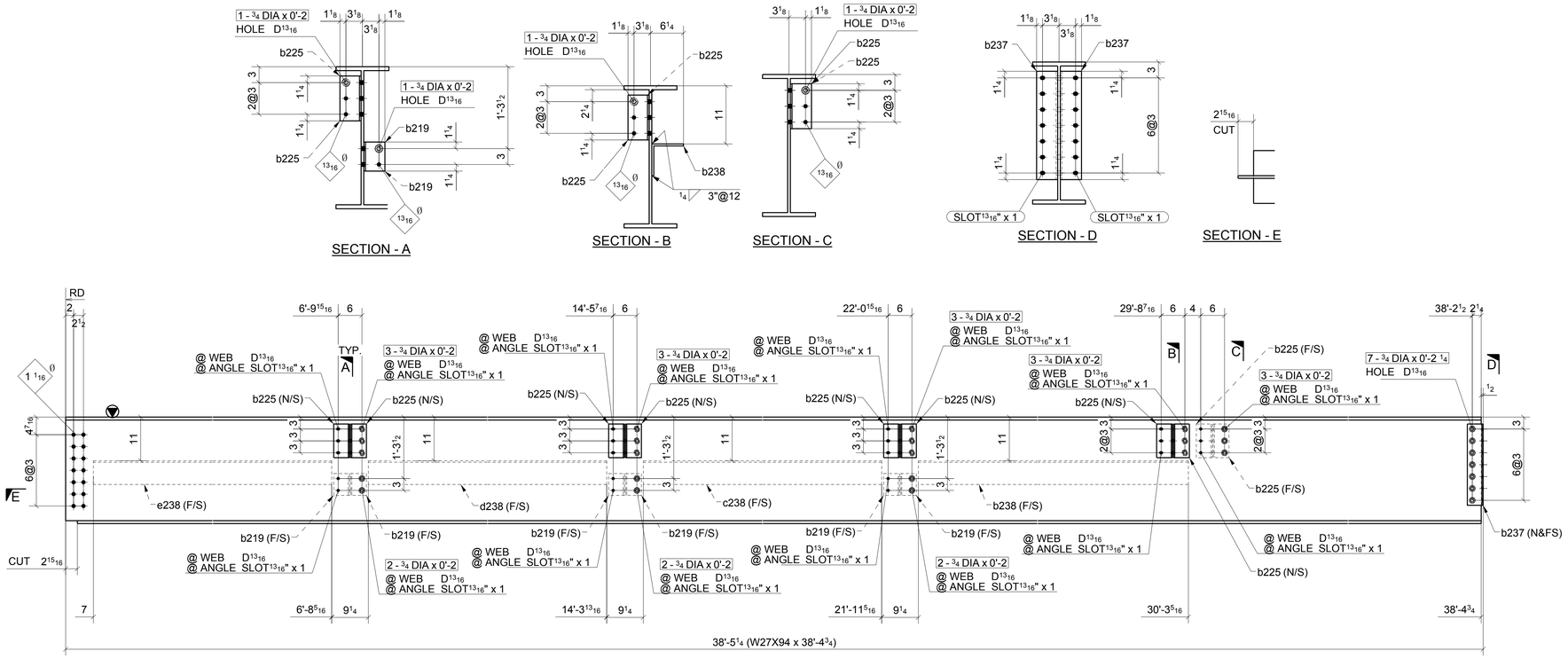
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 237



ONE - BEAM ~ 238A

LOCATION: (REF: E2A)

ONE @ 1.6-2/C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	238A	W27X94	38'-4 3/4"	A992	
6	b219	L4X4X5/16	0'-5 1/2"	A36	
10	b225	L4X4X5/16	0'-8 1/2"	A36	
2	b237	L4X4X5/16	1'-8 1/2"	A36	
1	b238	L6X6X3/8	7'-6 3/4"	A36	
1	c238	L6X6X3/8	6'-10 1/4"	A36	
1	d238	L6X6X3/8	6'-10 1/4"	A36	
1	e238	L6X6X3/8	6'-1 5/16"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		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 05/30/16

Sequence: 2 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

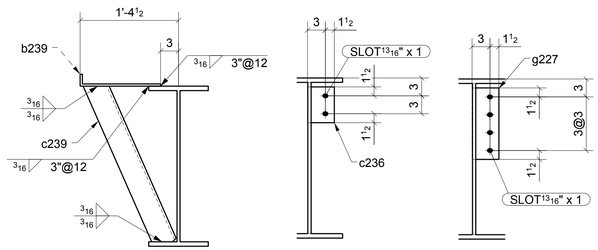
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

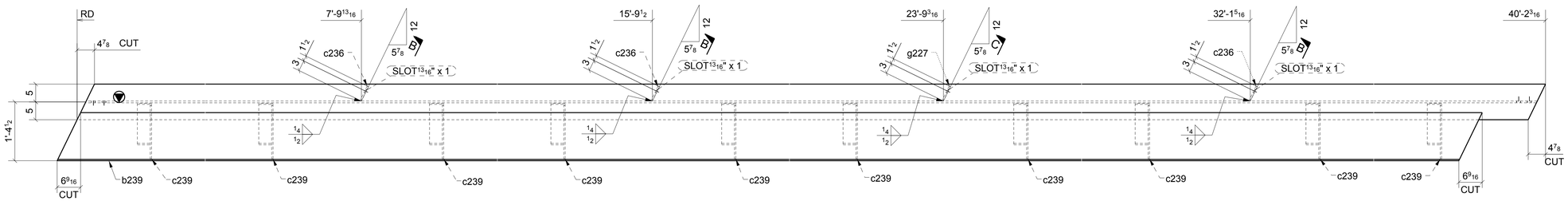
Job No. A16013 BAT: DWG#: 238

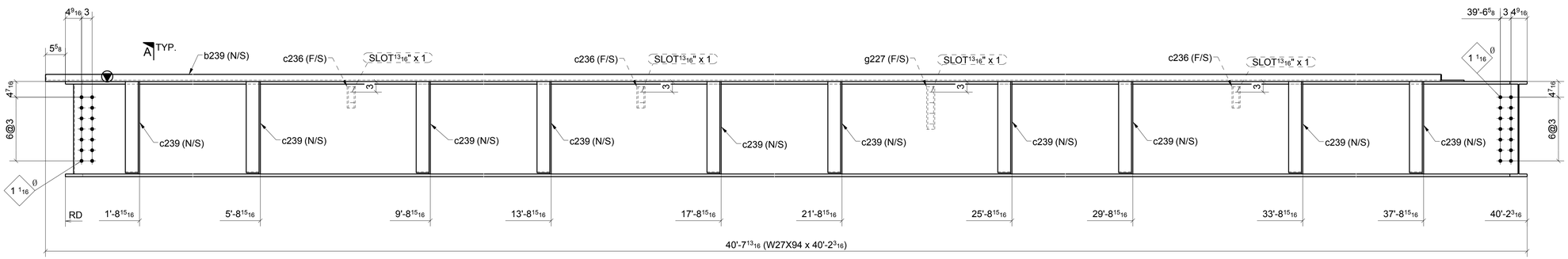


SECTION - A

SECTION - B

SECTION - C





ONE - BEAM ~ 239A

LOCATION: (REF: E2A)
ONE @ 2-3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	239A	W27X94	40'-2 3/16"	A992	
1	b239	BPL3/8"X15 1/2"	39'-2"	A36	
3	c236	PL3/8"X4 1/2"	0'-6"	A36	
10	c239	L4X4X3/8	2'-5 15/16"	A36	
1	g227	PL3/8"X4 1/2"	1'-0"	A36	

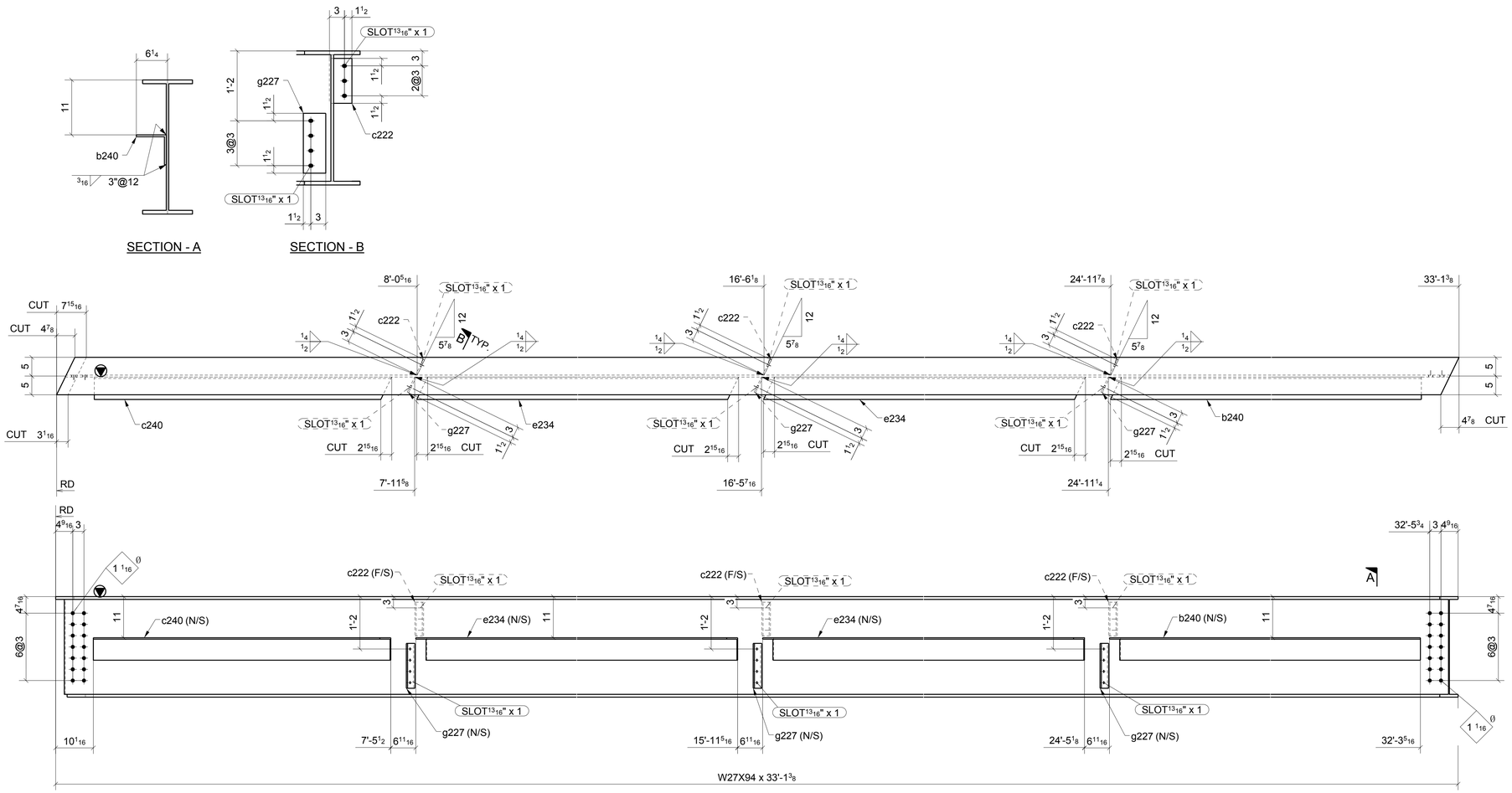
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 239



ONE - BEAM ~ 240A

LOCATION: (REF: E2A)
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	240A	W27X94	33'-1 3/8"	A992	
1	b240	L6X6X3/8	7'-3 1/2"	A36	
3	c222	PL3/8"X4 1/2"	0'-9"	A36	
1	c240	L6X6X3/8	6'-7 7/16"	A36	
2	e234	L6X6X3/8	7'-11 1/8"	A36	
3	g227	PL3/8"X4 1/2"	1'-0"	A36	

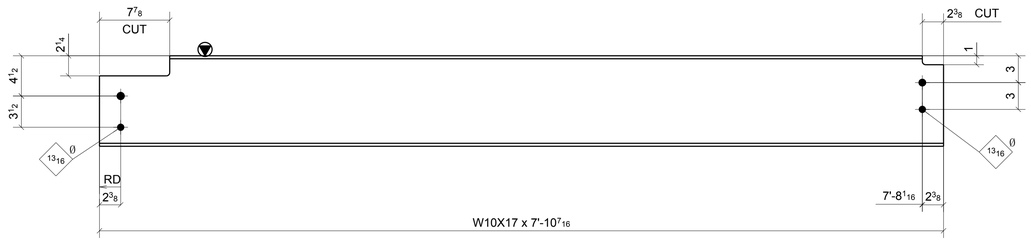
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

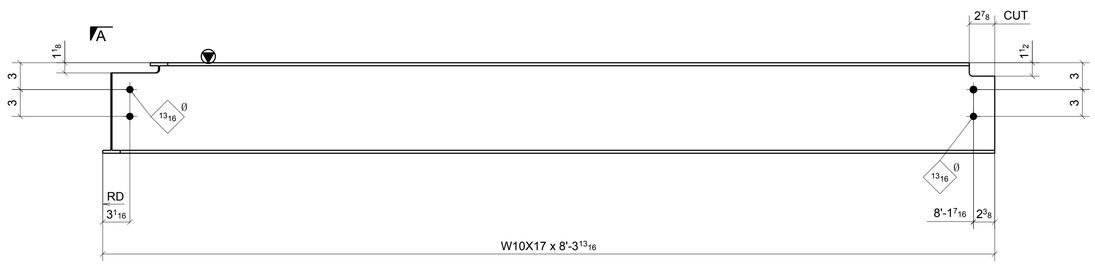
ATLAS IRON WORKS
ST. LOUIS, MO.

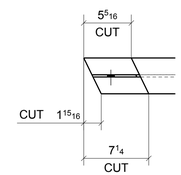
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 240



2 - BEAMS ~ 241A

LOCATION: (REF: E2B)
ONE @ 1-1.6/C-C.3
ONE @ 1-1.6/C-C.3

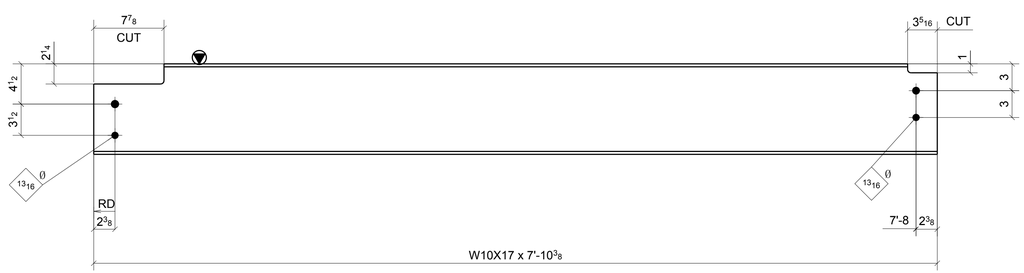




SECTION - A

ONE - BEAM ~ 241B

LOCATION: (REF: E2B)
ONE @ 2.6-3/A.5-B.3



4 - BEAMS ~ 241C

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7/C-C.3
ONE @ 1.9/C-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	241A	W10X17	7'-10 7/16"	A992	
1	241B	W10X17	8'-3 13/16"	A992	
4	241C	W10X17	7'-10 3/8"	A992	

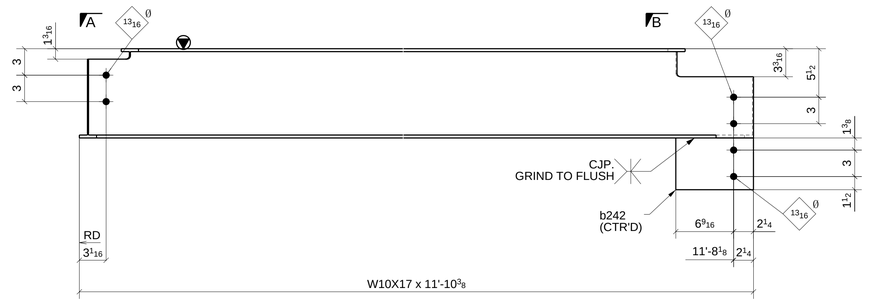
Romac By: Checked By:
Beamline By: Checked By:

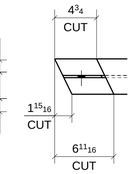
A	FOR APPROVAL	05/30/16

Sequence: 2 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:

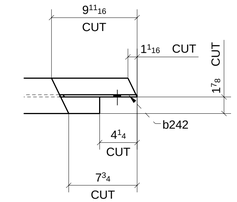
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 241





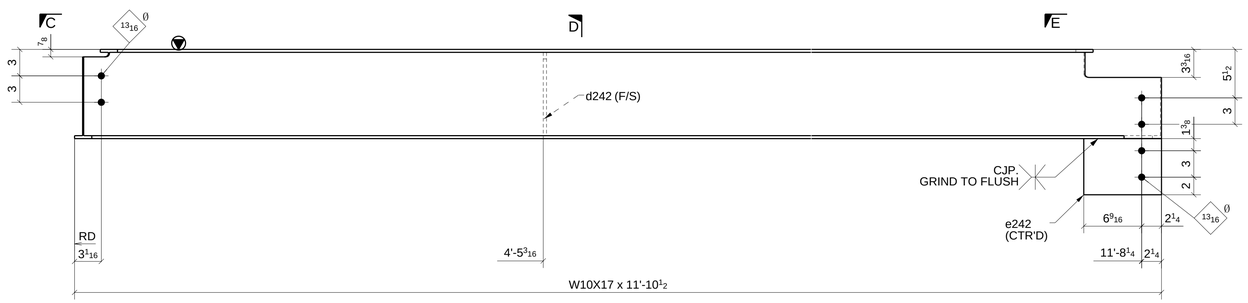
SECTION - A

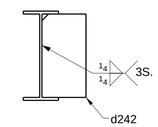


SECTION - B

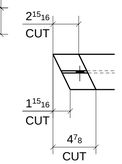
3 - BEAMS ~ 242A

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/4-A.5
ONE @ 1.7-1.9/4-A.5
ONE @ 1.7/4-A.5

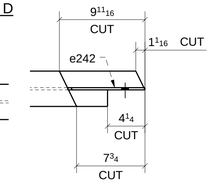




SECTION - D



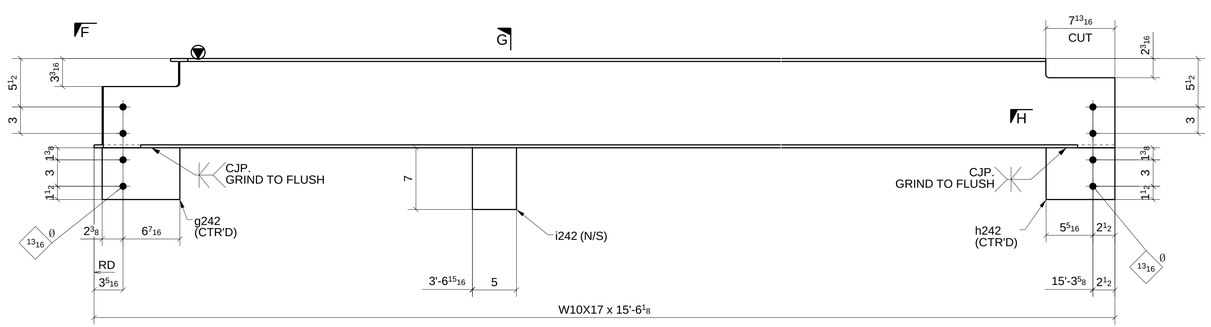
SECTION - C

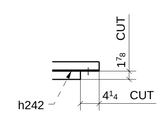


SECTION - E

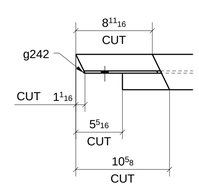
ONE - BEAM ~ 242B

LOCATION: (REF: E2B)
ONE @ 1-1.6/4-A.5

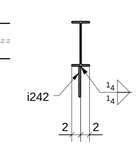




SECTION - H



SECTION - F



SECTION - G

ONE - BEAM ~ 242C

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	242A	W10X17	11'-10 3/8"	A992	
3	b242	PL1/4"X5 7/8"	0'-8 13/16"	A572-GR.50	
1	242B	W10X17	11'-10 1/2"	A992	
1	d242	PL3/8"X5"	0'-9 7/16"	A36	
1	e242	PL1/4"X6 3/8"	0'-8 13/16"	A572-GR.50	
1	242C	W10X17	15'-6 1/8"	A992	
1	g242	PL1/4"X5 7/8"	0'-8 13/16"	A572-GR.50	
1	h242	PL1/4"X5 7/8"	0'-7 13/16"	A572-GR.50	
1	i242	PL3/8"X5"	0'-7"	A36	

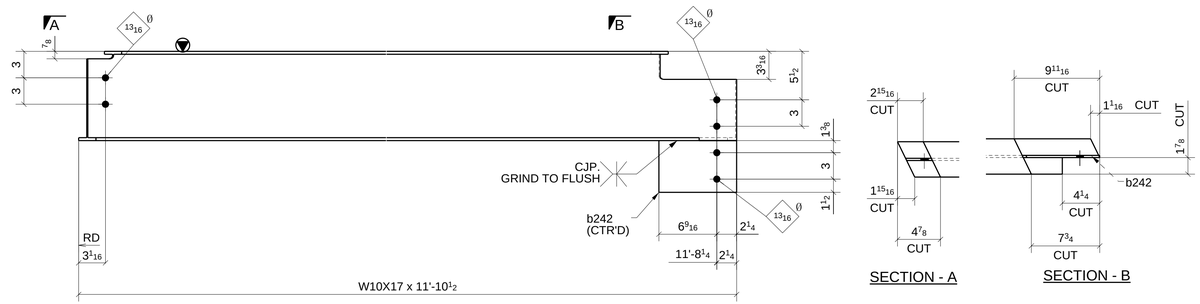
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 242

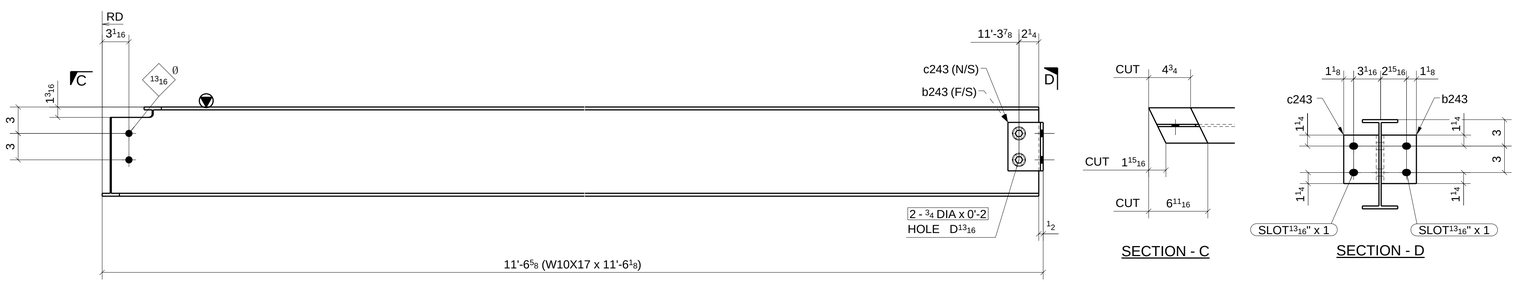


SECTION - A

SECTION - B

ONE - BEAM ~ 243A

LOCATION: (REF: E2B)
ONE @ 1-1.6/4-A.5

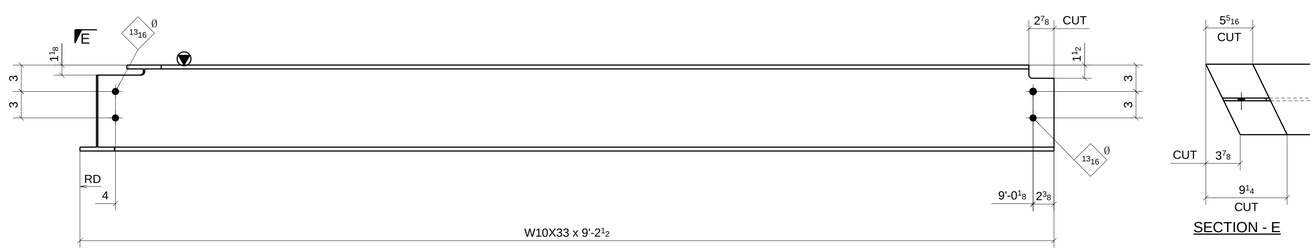


SECTION - C

SECTION - D

ONE - BEAM ~ 243B

LOCATION: (REF: E2B)
ONE @ 1.9/4-A.5



SECTION - E

ONE - BEAM ~ 243C

LOCATION: (REF: E2B)
ONE @ 2.6-3/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	243A	W10X17	11'-10 1/2"	A992	
1	b242	PL1/4"X5 7/8"	0'-8 13/16"	A572-GR.50	
1	243B	W10X17	11'-6 1/8"	A992	
1	b243	L4X4X5/16	0'-5 1/2"	A36	
1	c243	L4X4X5/16	0'-5 1/2"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	243C	W10X33	9'-2 1/2"	A992	

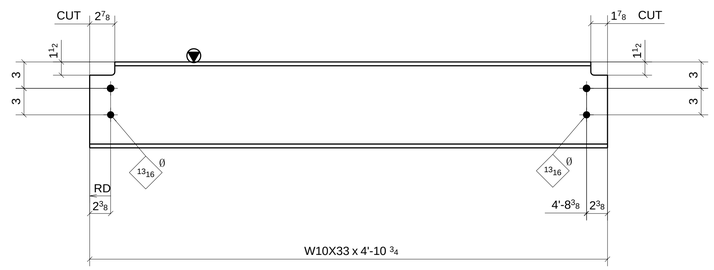
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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:

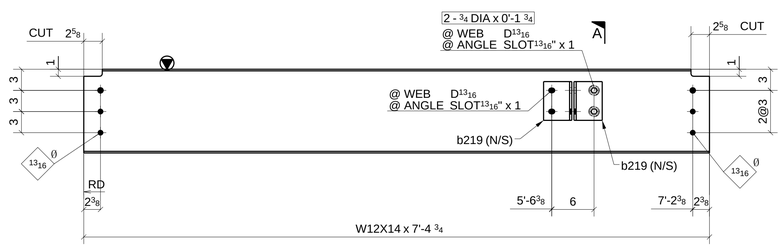
ATLAS IRON WORKS
ST. LOUIS, MO.

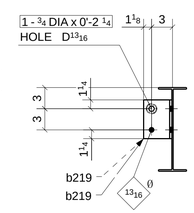
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 243



ONE - BEAM ~ 244A

LOCATION: (REF: E2B)
ONE @ 2.6-3/B.3-C

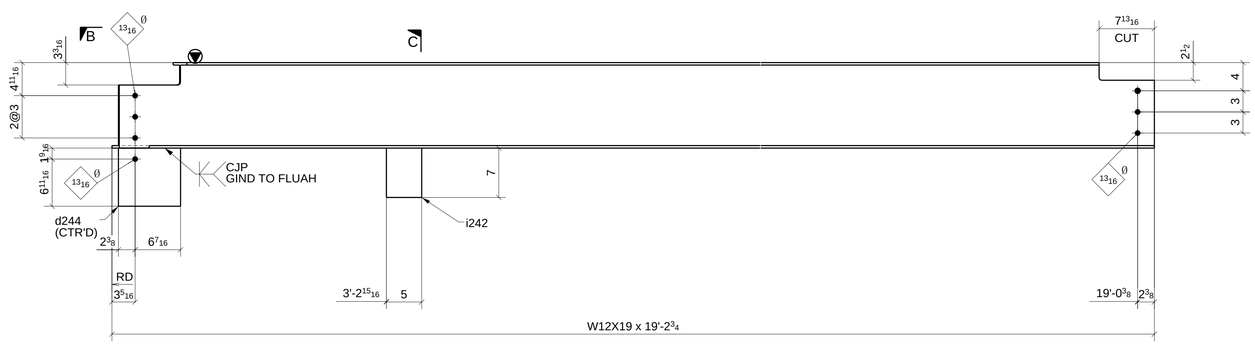


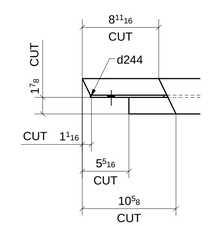


SECTION - A

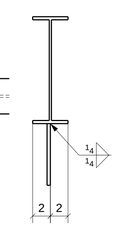
ONE - BEAM ~ 244B

LOCATION: (REF: E2B)
ONE @ 2.6-3/B.3-C





SECTION - B



SECTION - C

ONE - BEAM ~ 244C

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	244A	W10X33	4'-10 3/4"	A992	
1	244B	W12X14	7'-4 3/4"	A992	
2	b219	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	244C	W12X19	19'-2 3/4"	A992	
1	d244	PL1/4"X8 1/4"	0'-8 13/16"	A572-GR.50	
1	i242	PL3/8"X5"	0'-7"	A36	

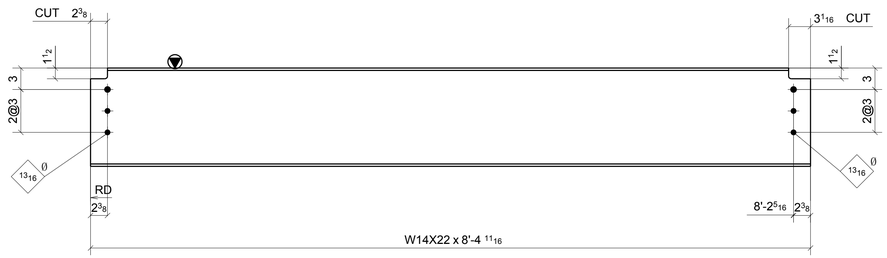
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

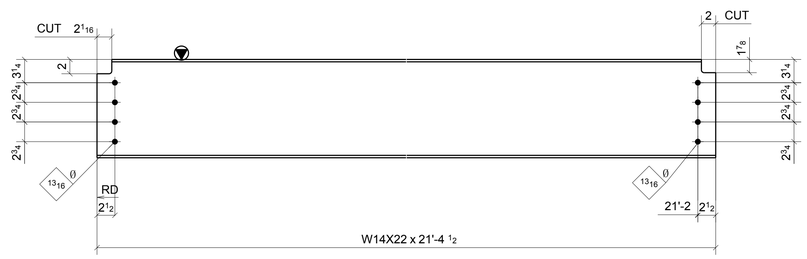
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 244



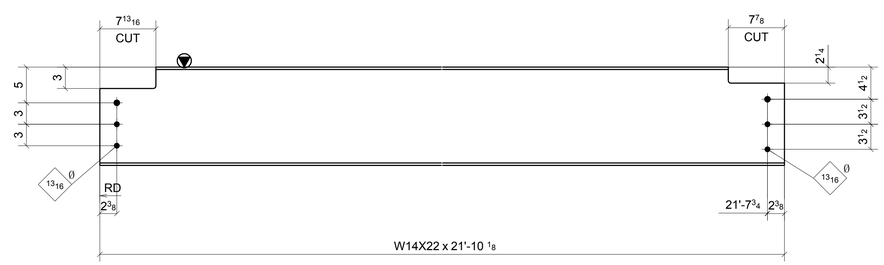
ONE - BEAM ~ 245A

LOCATION: (REF: E2B)
ONE @ 1.9-2/A.5-B.3



ONE - BEAM ~ 245B

LOCATION: (REF: E2B)
ONE @ 1.6/A.5-B.3



3 - BEAMS ~ 245C

LOCATION: (REF: E2B)
ONE @ 1-1.6/B.3-C
ONE @ 1.7/B.3-C
ONE @ 1.9/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	245A	W14X22	8'-4 11/16"	A992	
1	245B	W14X22	21'-4 1/2"	A992	
3	245C	W14X22	21'-10 1/8"	A992	

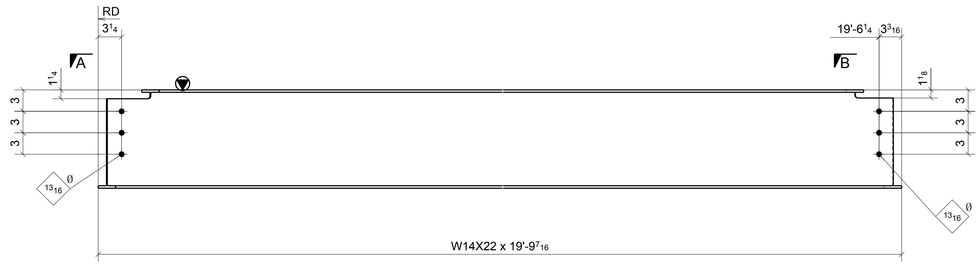
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

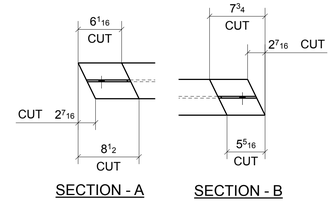
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 245

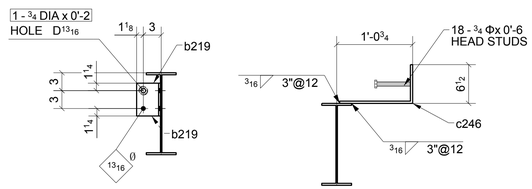


3 - BEAMS ~ 246A

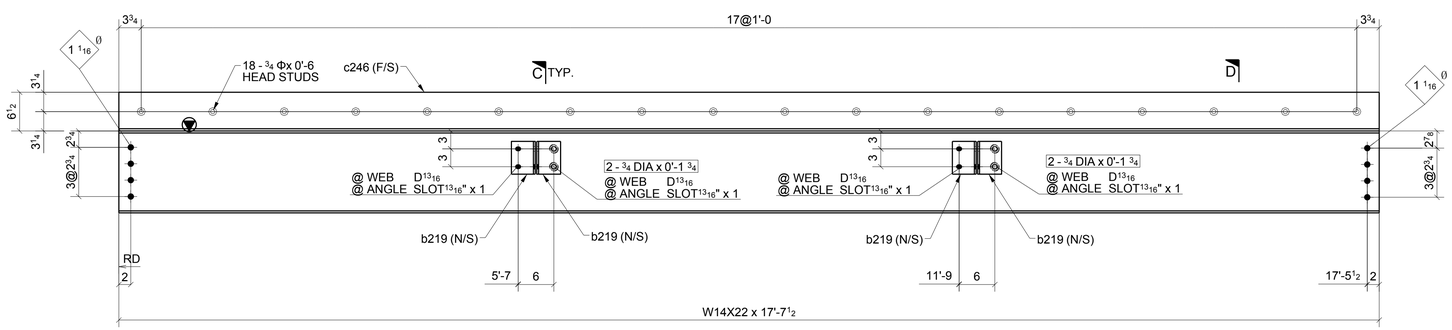
LOCATION: (REF: E2B)
ONE @ 2-2.6/4-B.3
ONE @ 2-2.6/4-B.3
ONE @ 2.6-3/4-B.3



SECTION - A SECTION - B



SECTION - C SECTION - D



ONE - BEAM ~ 246B

LOCATION: (REF: E2B)
ONE @ 1-1.6/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	246A	W14X22	19'-9 7/16"	A992	
1	246B	W14X22	17'-7 1/2"	A992	
4	b219	L4X4X5/16	0'-5 1/2"	A36	
1	c246	BPL3/8"X18 3/4"	17'-7 1/2"	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	
18		3/4" STUD	0'-6"		

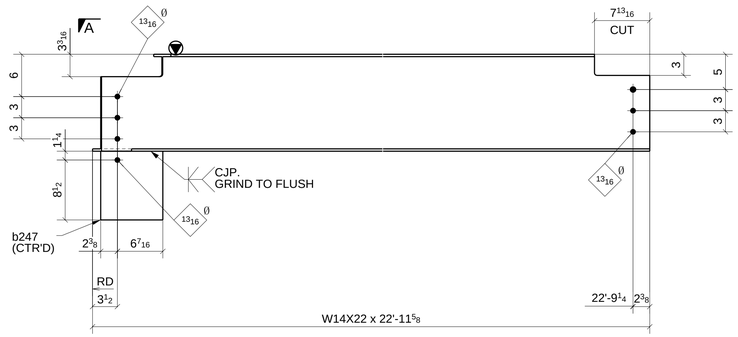
Romac By: Checked By:
Beamline By: Checked By:

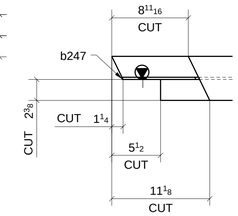
A FOR APPROVAL 05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 246

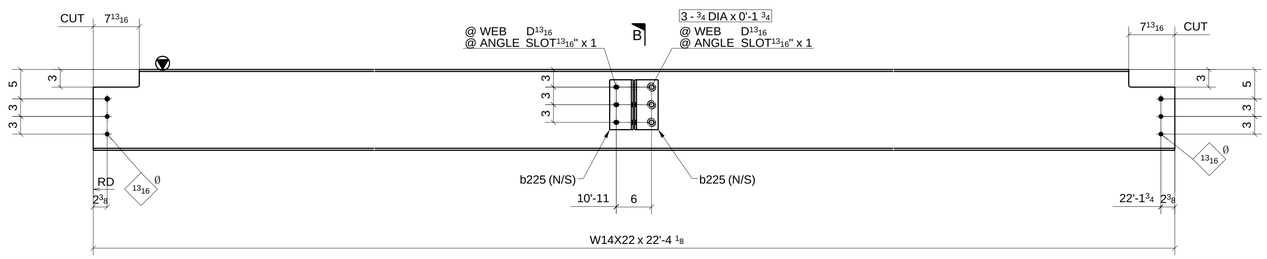


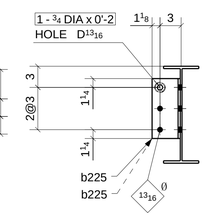


SECTION - A

ONE - BEAM ~ 247A

LOCATION: (REF: E2B)
ONE @ 1.7/4-A.5

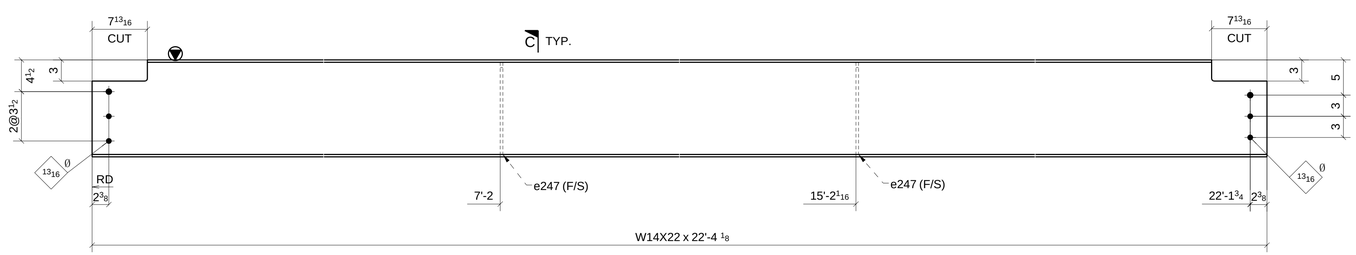


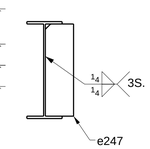


SECTION - B

ONE - BEAM ~ 247B

LOCATION: (REF: E2B)
ONE @ 1.9/A.5-B.3





SECTION - C

ONE - BEAM ~ 247C

LOCATION: (REF: E2B)
ONE @ 1-1.6/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	247A	W14X22	22'-11 5/8"	A992	
1	b247	PL1/4"X8 13/16"	0'-9 3/4"	A572-GR.50	
1	247B	W14X22	22'-4 1/8"	A992	
2	b225	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	
1	247C	W14X22	22'-4 1/8"	A992	
2	e247	PL3/8"X4"	1'-1 1/16"	A36	

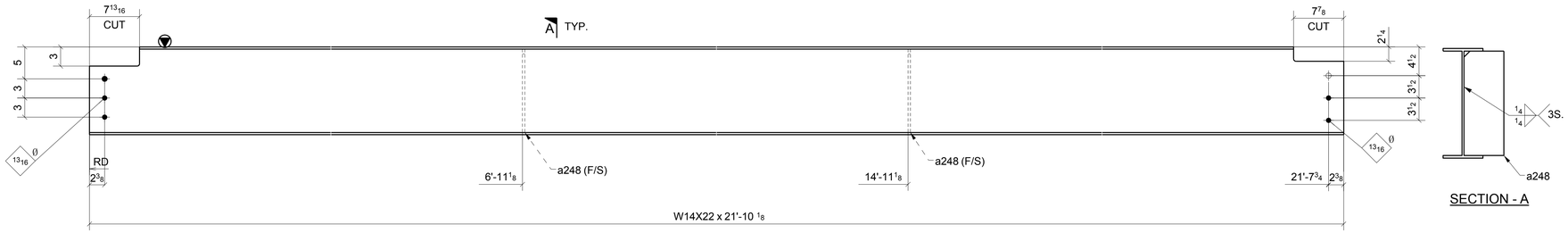
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

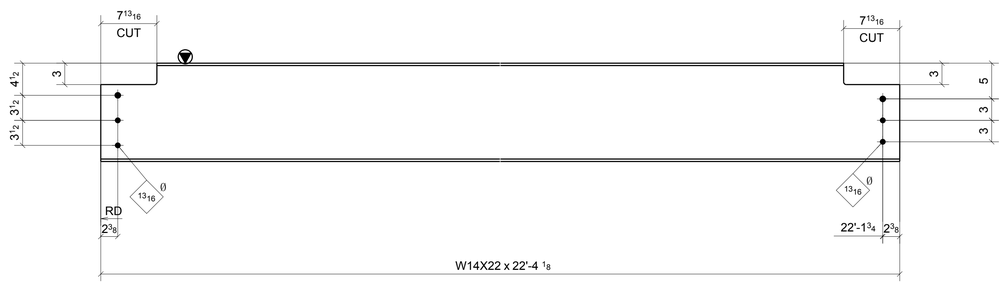
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 247



SECTION - A

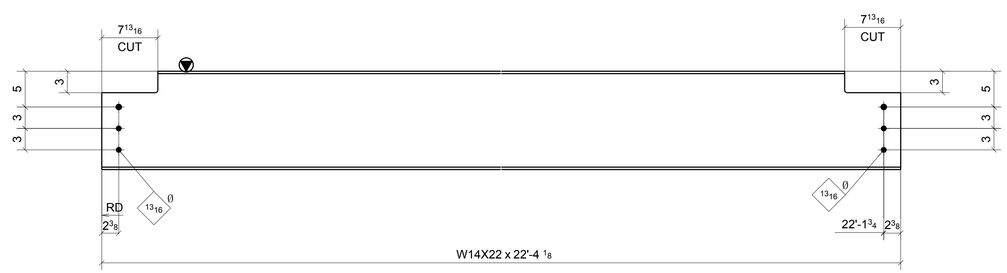
ONE - BEAM ~ 248A

LOCATION: (REF: E2B)
ONE @ 1-1.6/B.3-C



ONE - BEAM ~ 248B

LOCATION: (REF: E2B)
ONE @ 1-1.6/A.5-B.3



ONE - BEAM ~ 248C

LOCATION: (REF: E2B)
ONE @ 1.7/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	248A	W14X22	21'-10 1/8"	A992	
2	a248	PL3/8"X5"	1'-1 1/16"	A36	
1	248B	W14X22	22'-4 1/8"	A992	
1	248C	W14X22	22'-4 1/8"	A992	

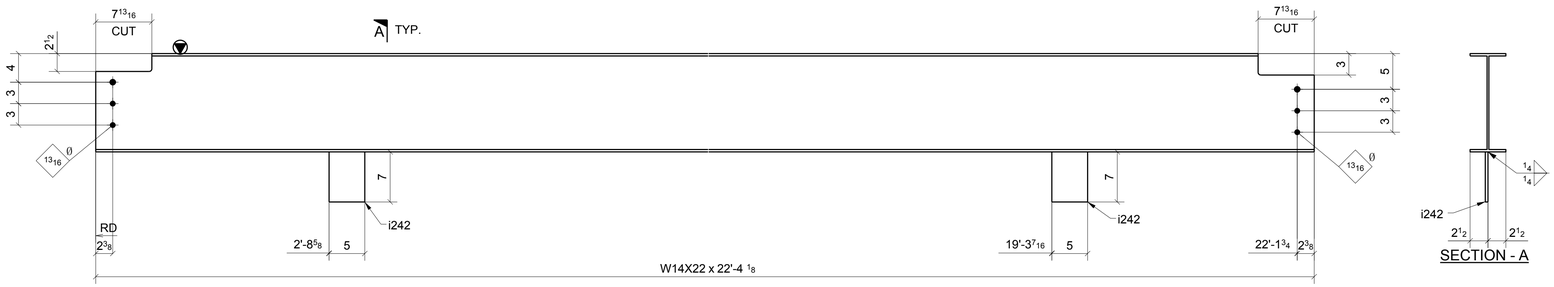
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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:

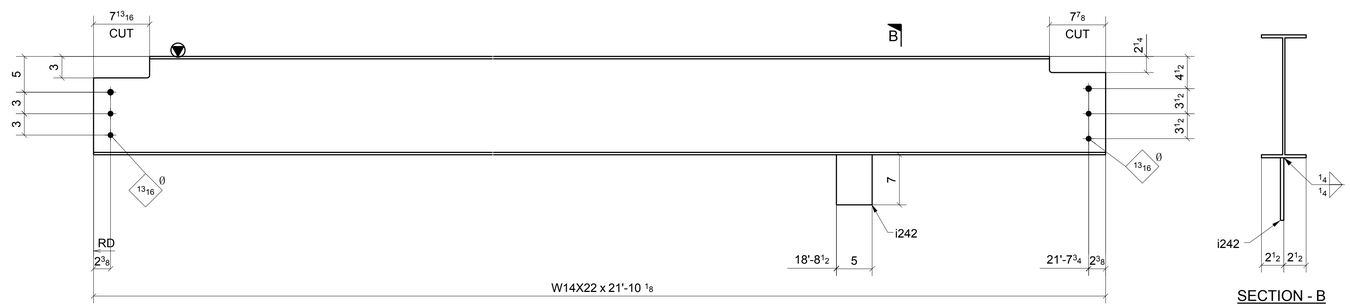
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 248



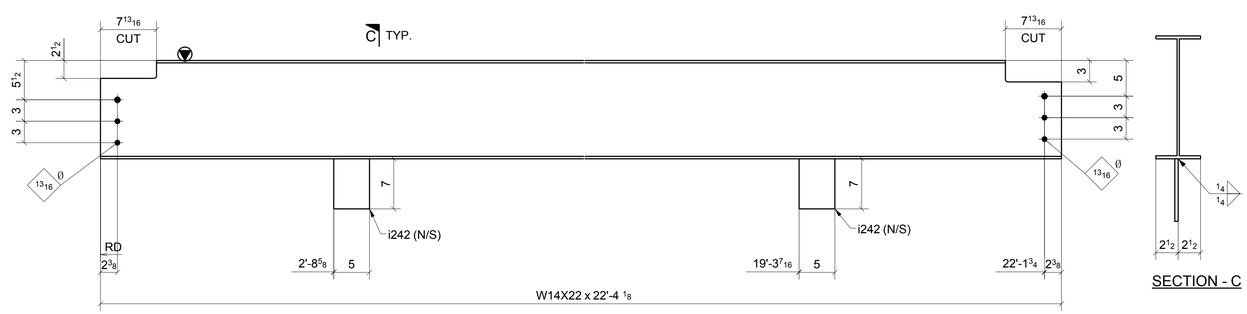
ONE - BEAM ~ 249A

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/A.5-B.3



2 - BEAMS ~ 249B

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/B.3-C
ONE @ 1.7-1.9/B.3-C



ONE - BEAM ~ 249C

LOCATION: (REF: E2B)
ONE @ 1.7-1.9/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

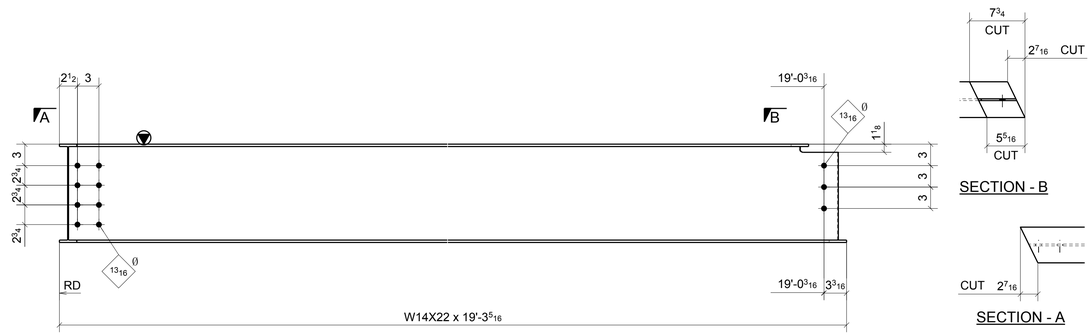
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	249A	W14X22	22'-4 1/8"	A992	
2	i242	PL3/8"X5"	0'-7"	A36	
2	249B	W14X22	21'-10 1/8"	A992	
2	i242	PL3/8"X5"	0'-7"	A36	
1	249C	W14X22	22'-4 1/8"	A992	
2	i242	PL3/8"X5"	0'-7"	A36	

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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:	

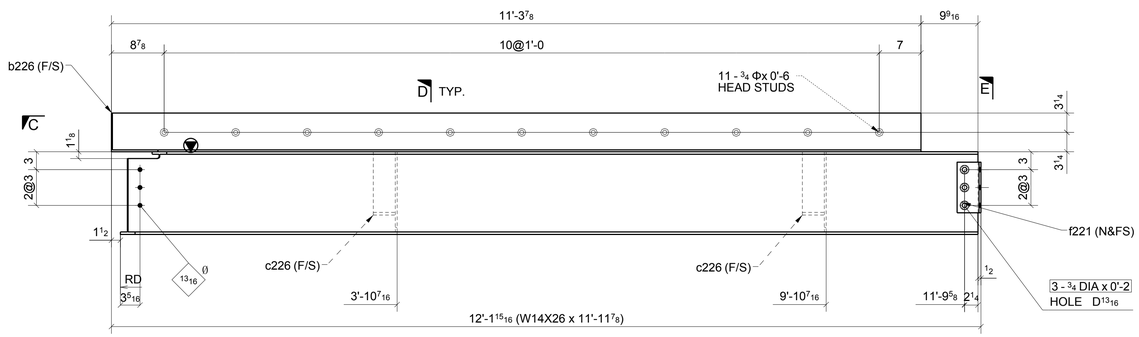
ATLAS IRON WORKS
ST. LOUIS, MO.

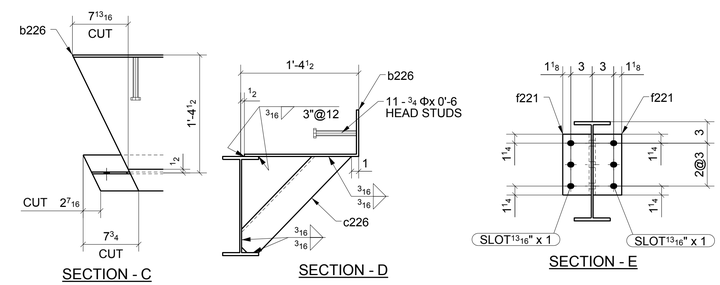
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 249



ONE - BEAM ~ 250A

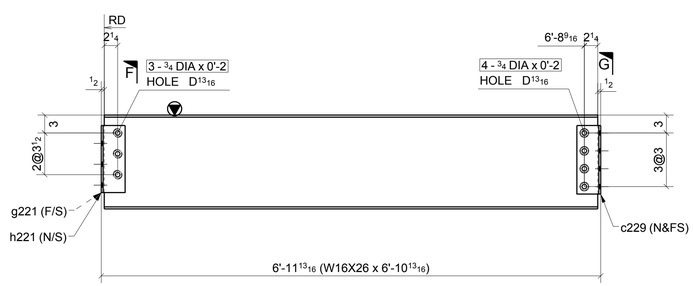
LOCATION: (REF: E2B)
ONE @ 2.6/4-B.3

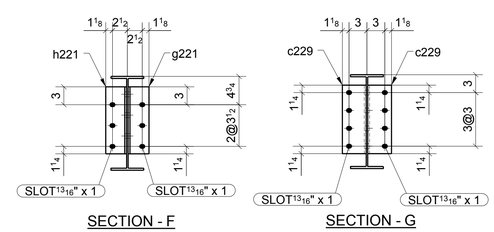




ONE - BEAM ~ 250B

LOCATION: (REF: E2B)
ONE @ 2.6/A.5-B.3





ONE - BEAM ~ 250C

LOCATION: (REF: E2B)
ONE @ 2/C-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	250A	W14X22	19'-3 5/16"	A992	
1	250B	W14X26	11'-11 7/8"	A992	
1	b226	PL5/16"X22 1/2"	11'-3 7/8"	A36	
2	c226	L4X4X5/16	1'-7 13/16"	A36	
2	f221	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
11		3/4" STUD	0'-6"		
1	250C	W16X26	6'-10 13/16"	A992	
2	c229	L4X4X5/16	0'-11 1/2"	A36	
1	g221	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	h221	L4X3-1/2X5/16	0'-11 1/4"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	

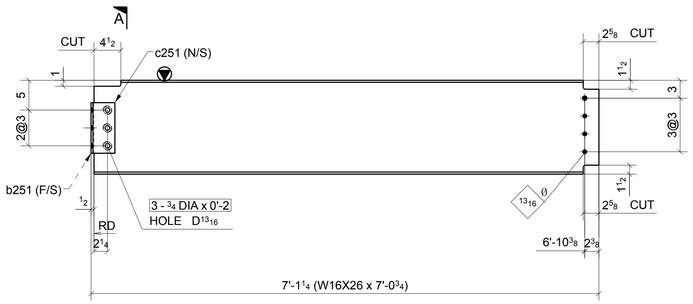
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

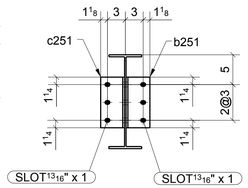
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 250

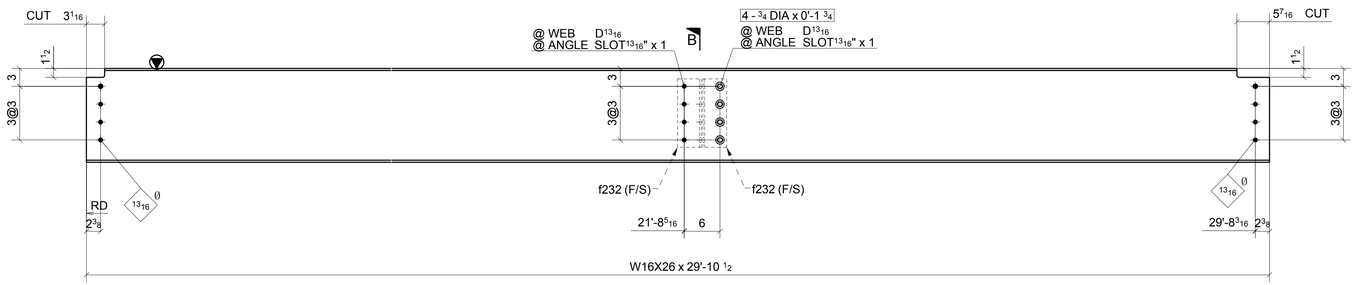


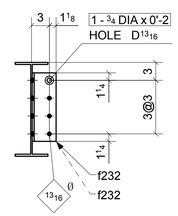
ONE - BEAM ~ 251A

LOCATION: (REF: E2B)
ONE @ 2-2.6/C



SECTION - A





SECTION - B

ONE - BEAM ~ 251B

LOCATION: CAMBER=3/4" (REF: E2B)
ONE @ 2-2.6/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	251A	W16X26	7'-0 11/16"	A992	
1	b251	L4X4X5/16	0'-8 1/2"	A36	
1	c251	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	251B	W16X26	29'-10 1/2"	A992	
2	f232	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	

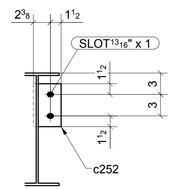
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

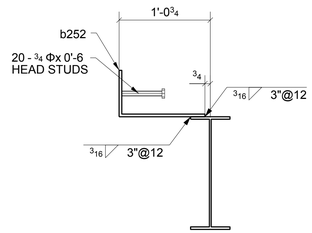
Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

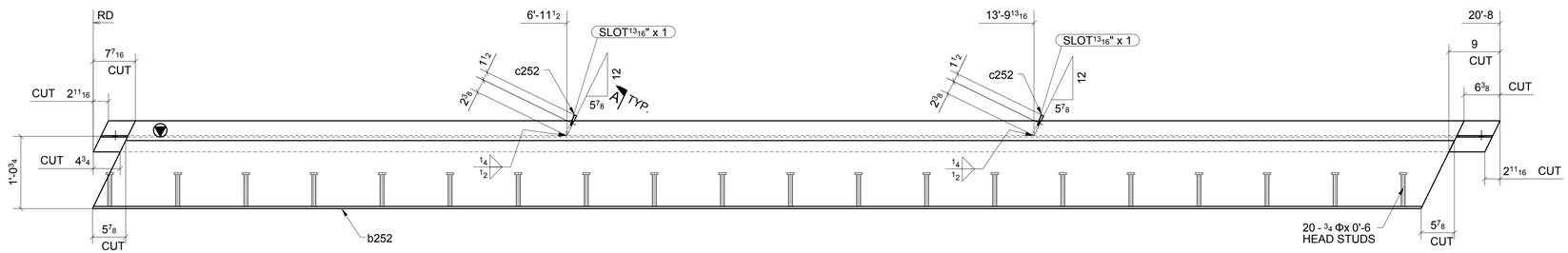
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 251

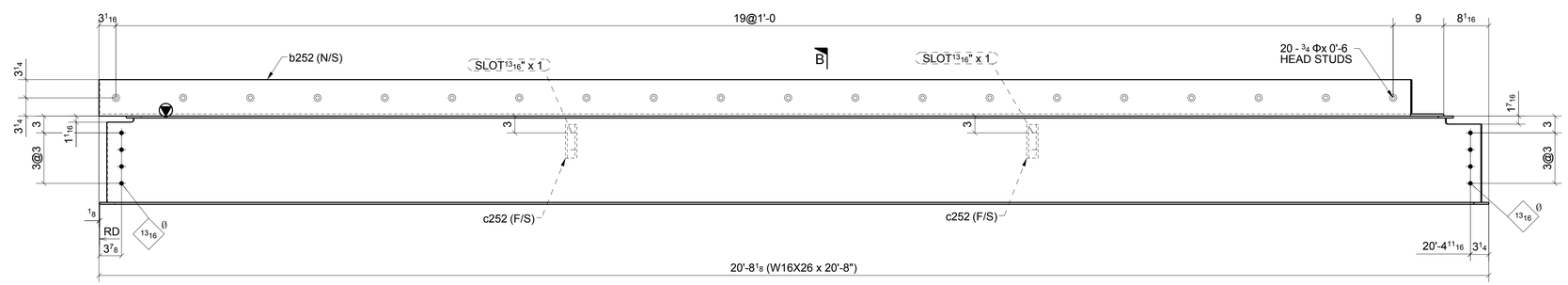


SECTION - A



SECTION - B





ONE - BEAM ~ 252A

LOCATION:
ONE @ 1-1.6/4-A.5

(REF: E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	252A	W16X26	20'-8"	A992	
1	b252	BPL3/8"X18 1/2"	20'-0 1/16"	A36	
2	c252	PL3/8"X3 7/8"	0'-6"	A36	
20		3/4" STUD	0'-6"		

Romac By: Checked By:

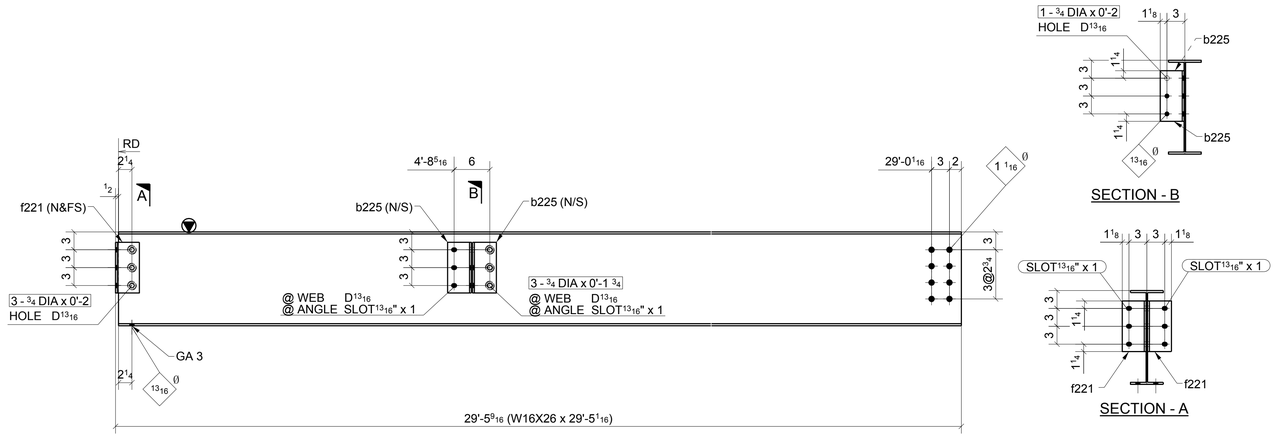
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 252

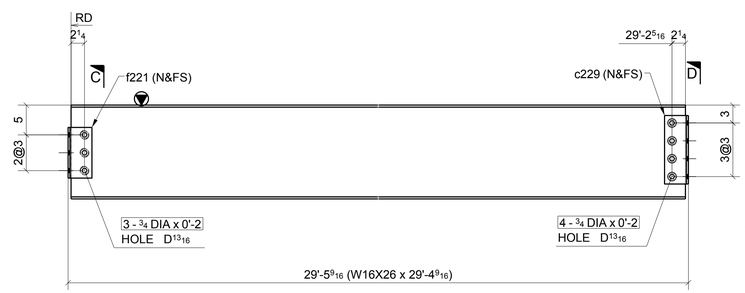


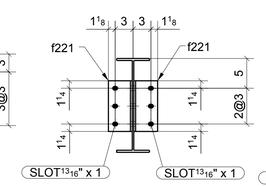
SECTION - B

SECTION - A

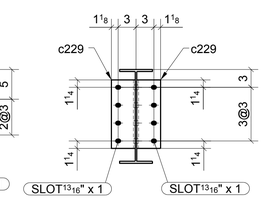
ONE - BEAM ~ 253A

LOCATION: CAMBER=3/4" (REF: E2B)
ONE @ 2.6/B.3-C.3





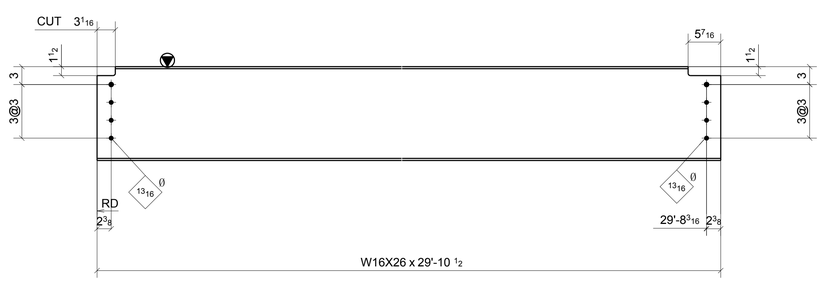
SECTION - C



SECTION - D

ONE - BEAM ~ 253B

LOCATION: CAMBER=3/4" (REF: E2B)
ONE @ 3/B.3-C.3



ONE - BEAM ~ 253C

LOCATION: CAMBER=3/4" (REF: E2B)
ONE @ 2-2.6/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	253A	W16X26	29'-5 1/16"	A992	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
2	f221	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	
1	253B	W16X26	29'-4 9/16"	A992	
2	c229	L4X4X5/16	0'-11 1/2"	A36	
2	f221	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	
1	253C	W16X26	29'-10 1/2"	A992	

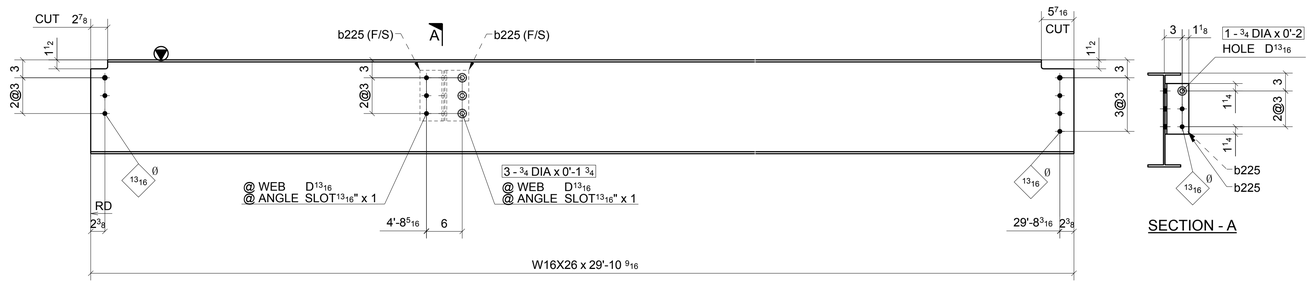
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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.

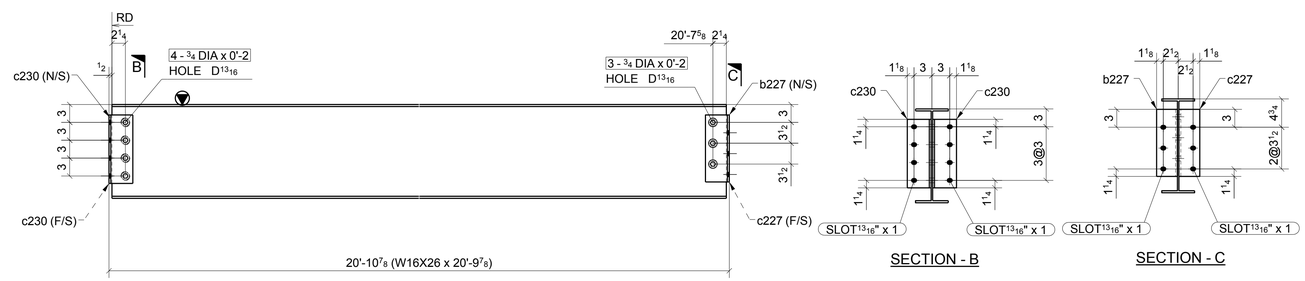
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 253



SECTION - A

ONE - BEAM ~ 254A

LOCATION: CAMBER=3/4" (REF: E2B)
ONE @ 2.6-3/B.3-C.3

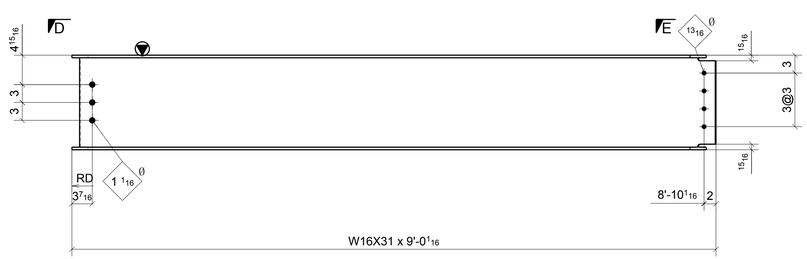


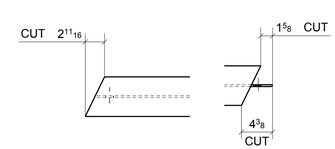
SECTION - B

SECTION - C

ONE - BEAM ~ 254B

LOCATION: (REF: E2B)
ONE @ 2/B.3-C





SECTION - D

SECTION - E

ONE - BEAM ~ 254C

LOCATION: (REF: E2B)
ONE @ 1.9-2/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	254A	W16X26	29'-10 9/16"	A992	
2	b225	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	
1	254B	W16X26	20'-9 7/8"	A992	
1	b227	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	c227	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	c230	L4X4X5/16	0'-11 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	254C	W16X31	9'-0 1/16"	A992	

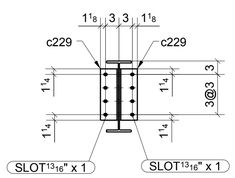
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

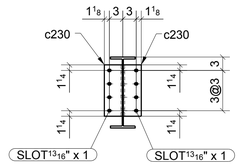
A	FOR APPROVAL	05/30/16

Sequence: 2 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:

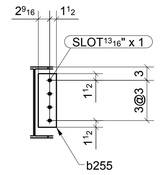
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 254



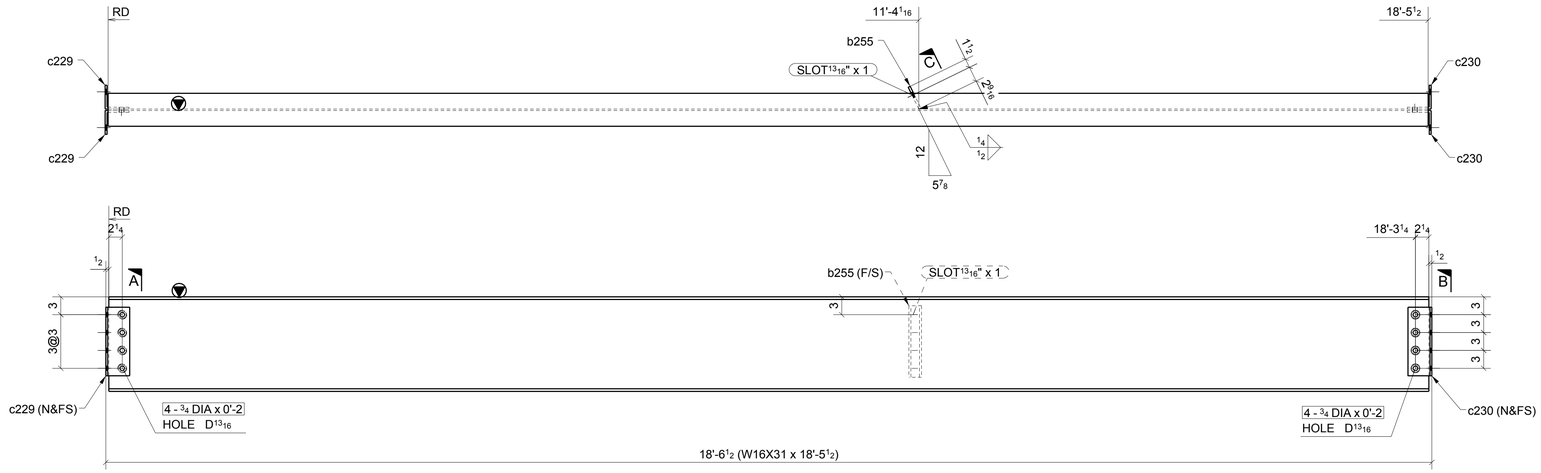
SECTION - A



SECTION - B

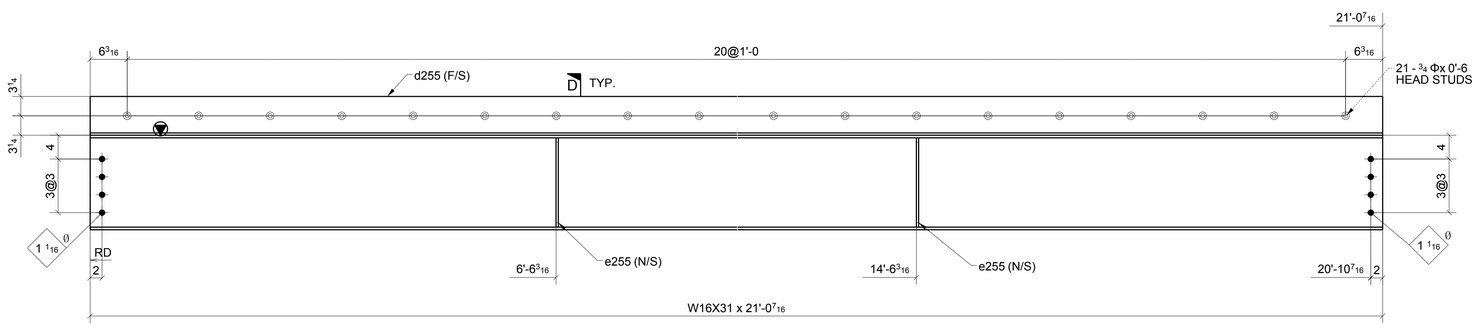


SECTION - C



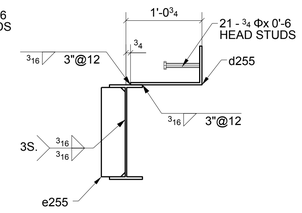
ONE - BEAM ~ 255A

LOCATION: (REF: E2B)
ONE @ 2/4-A.5



ONE - BEAM ~ 255B

LOCATION: (REF: E2B)
ONE @ 1/A.5-B.3



SECTION - D

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	255A	W16X31	18'-5 1/2"	A992	
1	b255	PL3/8"X4 1/16"	1'-0"	A36	
2	c229	L4X4X5/16	0'-11 1/2"	A36	
2	c230	L4X4X5/16	0'-11 1/2"	A36	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	255B	W16X31	21'-0 7/16"	A992	
1	d255	BPL3/8"X18 1/2"	21'-0 7/16"	A36	
2	e255	PL3/8"X4"	1'-3"	A36	
21		3/4" STUD	0'-6"		

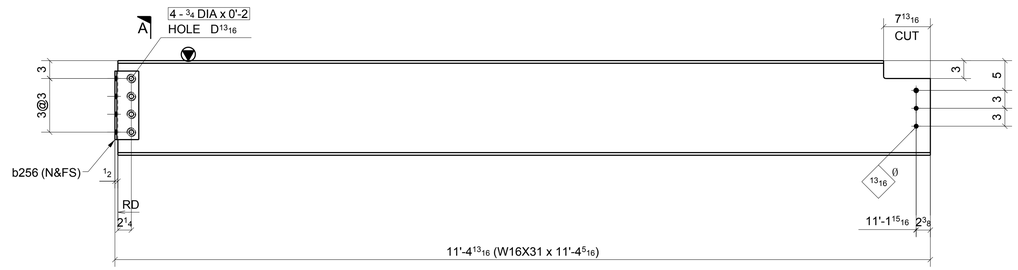
Romac By: Checked By:
Beamline By: Checked By:

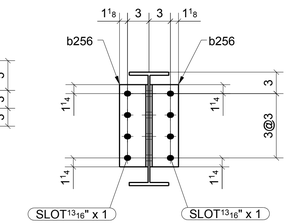
A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 255

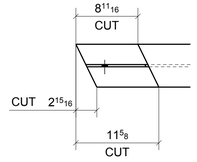




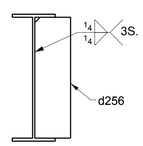
SECTION - A

ONE - BEAM ~ 256A

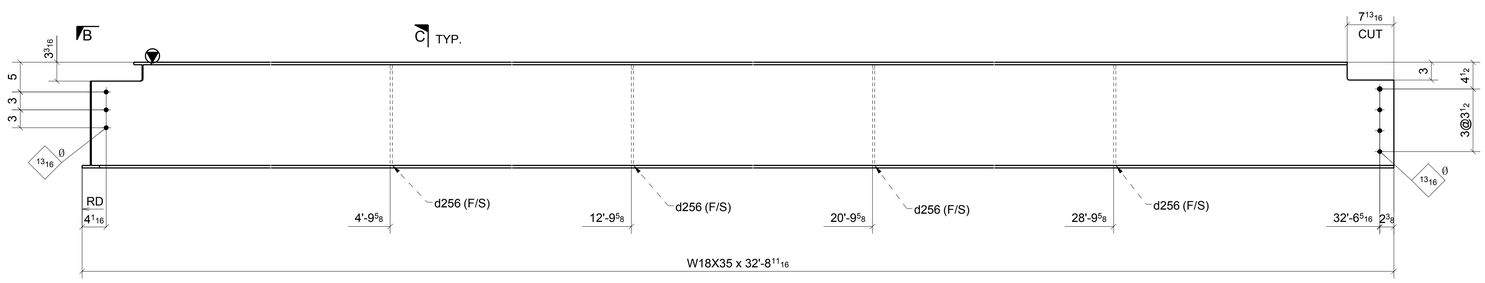
LOCATION: (REF: E2B)
ONE @ 1.9/4-A.5



SECTION - B



SECTION - C



ONE - BEAM ~ 256B

LOCATION: (REF: E2B)
ONE @ 1-1.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	256A	W16X31	11'-4 5/16"	A992	
2	b256	L4X4X5/16	0'-11 1/2"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	256B	W18X35	32'-8 11/16"	A992	
4	d256	PL3/8"X5"	1'-4 7/8"	A36	

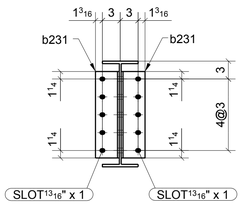
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

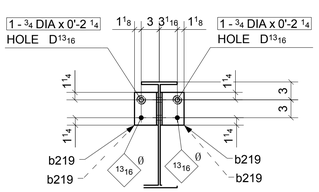
Sequence: 2 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

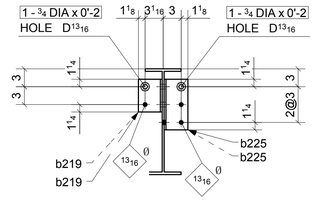
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 256



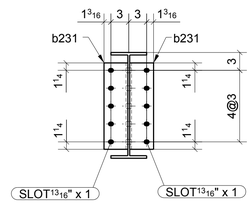
SECTION - A



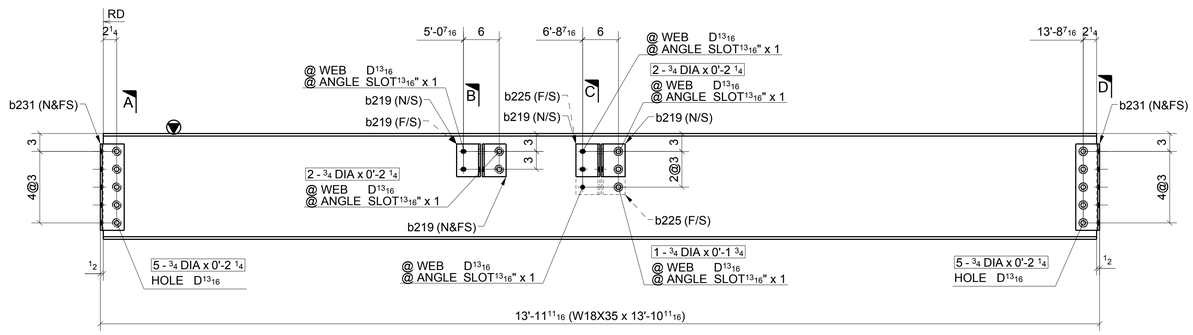
SECTION - B



SECTION - C

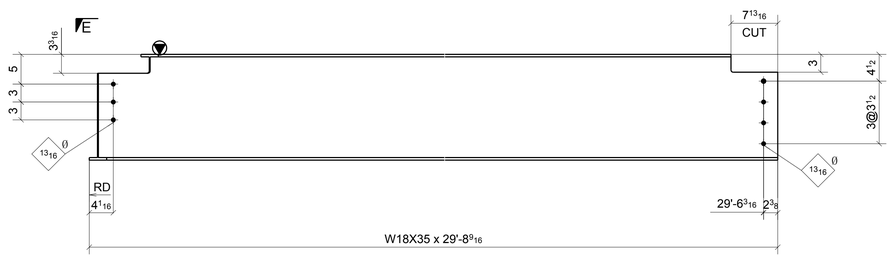


SECTION - D



ONE - BEAM ~ 257A

LOCATION: (REF: E2B)
ONE @ 2.6-3/B.3



SECTION - E

ONE - BEAM ~ 257B

LOCATION: (REF: E2B)
ONE @ 1-1.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	257A	W18X35	13'-10 11/16"	A992	
6	b219	L4X4X5/16	0'-5 1/2"	A36	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
4	b231	L4X4X5/16	1'-2 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 1/4"	A325N TC	
10		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
1	257B	W18X35	29'-8 9/16"	A992	

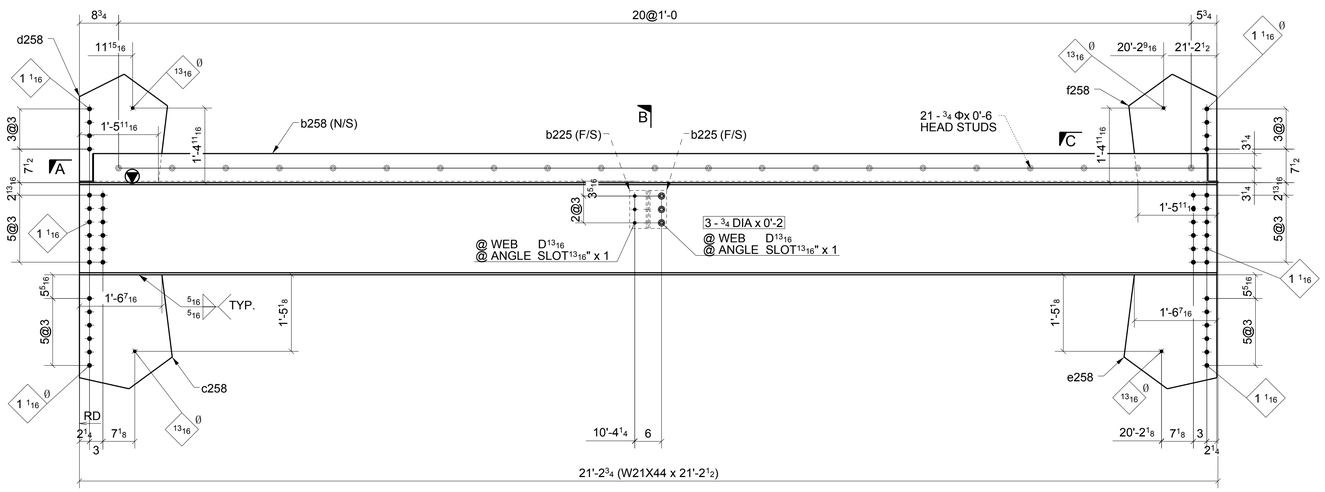
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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:

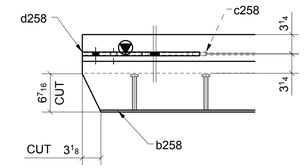
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 257

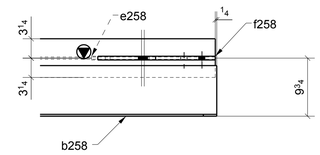


ONE - BEAM ~ 258A

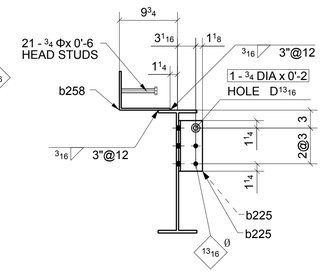
LOCATION: (REF: E2B)
ONE @ 2/A.5-B.3



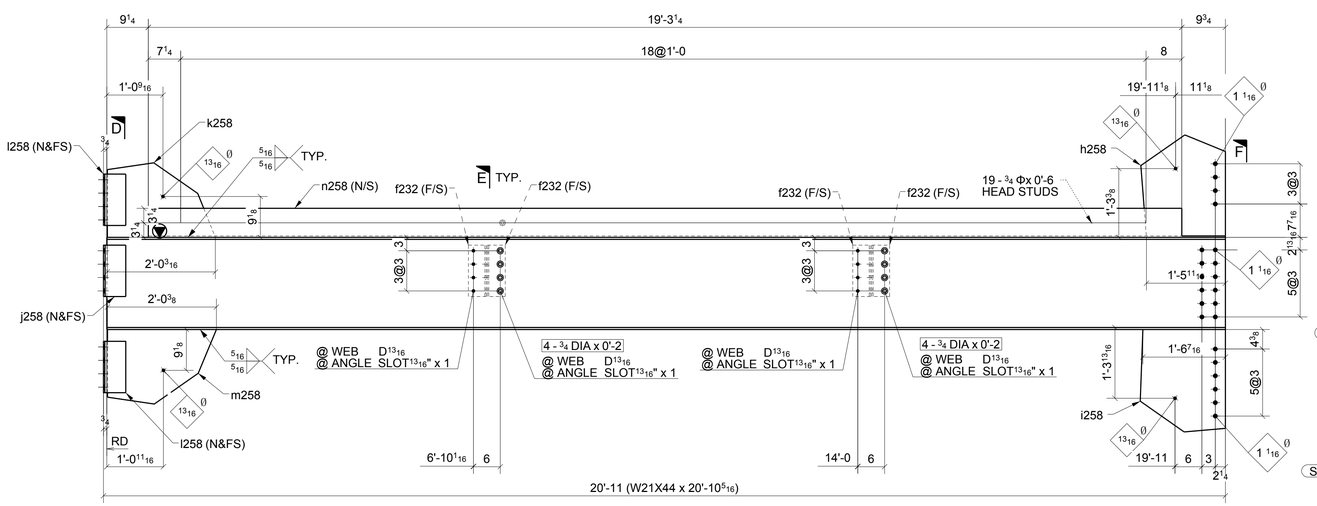
SECTION - A



SECTION - C

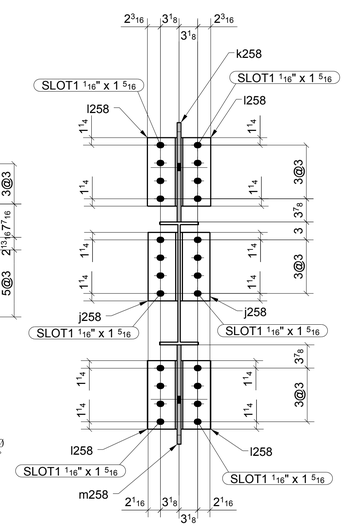


SECTION - B

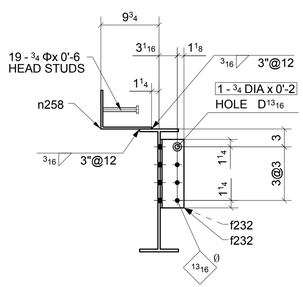


ONE - BEAM ~ 258B

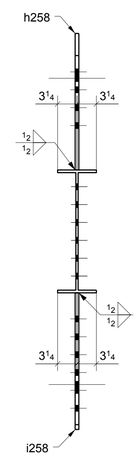
LOCATION: (REF: E2B)
ONE @ 2-2.6/B.3



SECTION - D



SECTION - E



SECTION - F

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	258A	W21X44	21'-2 1/2"	A992	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
1	b258	BPL5/16""15	21'-2 3/4"	A36	
1	c258	PL5/8"X20 3/4"	2'-1 1/2"	A572-GR.50	
1	d258	PL5/8"X19 11/16"	2'-0 1/4"	A572-GR.50	
1	e258	PL5/8"X20 3/4"	2'-1 1/2"	A572-GR.50	
1	f258	PL5/8"X19 11/16"	2'-0 1/4"	A572-GR.50	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	
1		3/4" DIA. W/N&W	0'-2"	A325N TC	
21		3/4" STUD	0'-6"		
1	258B	W21X44	20'-10 1/4"	A992	
4	f232	L4X4X5/16	0'-11 1/2"	A36	
1	h258	PL5/8"X18 15/16"	1'-10 15/16	A572-GR.50	
1	i258	PL5/8"X19 1/16"	1'-10 15/16	A572-GR.50	
2	j258	L5X5X3/8	0'-11 1/2"	A36	
1	k258	PL5/8"X16 11/16"	2'-0 3/16"	A572-GR.50	
4	l258	L5X5X5/16	0'-11 1/2"	A36	
1	m258	PL5/8"X16 11/16"	2'-0 3/8"		
1	n258	BPL5/16""15	20'-1"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	
8		3/4" DIA. W/N&W	0'-2"	A325N TC	
19		3/4" STUD	0'-6"		

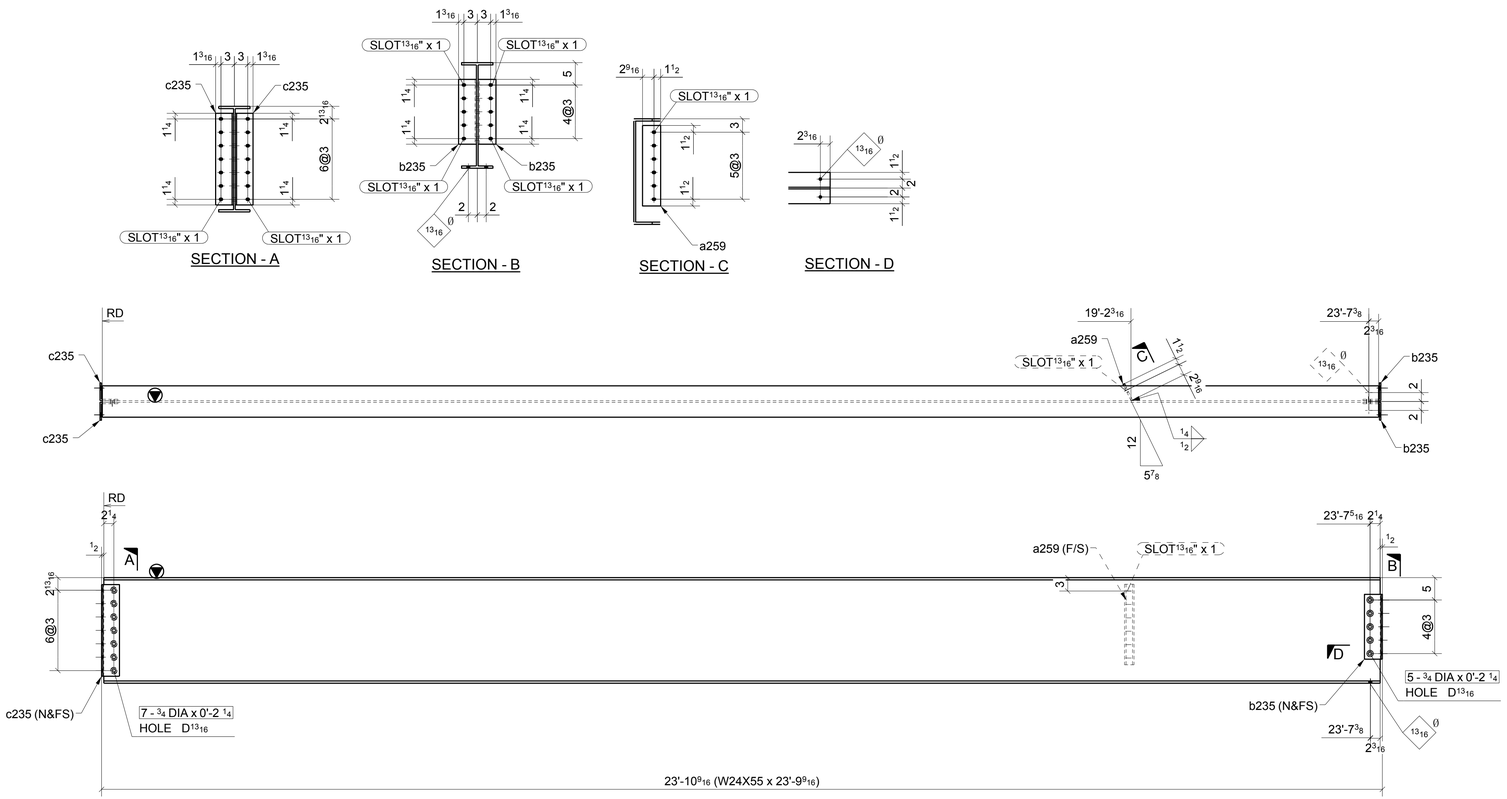
SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 258



ONE - BEAM ~ 259A

LOCATION: (REF: E2B)
ONE @ 3/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	259A	W24X55	23'-9 9/16"	A992	
1	a259	PL3/8"X4 1/16"	1'-6"	A36	
2	b235	L4X4X5/16	1'-2 1/2"	A36	
2	c235	L4X4X5/16	1'-8 1/2"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

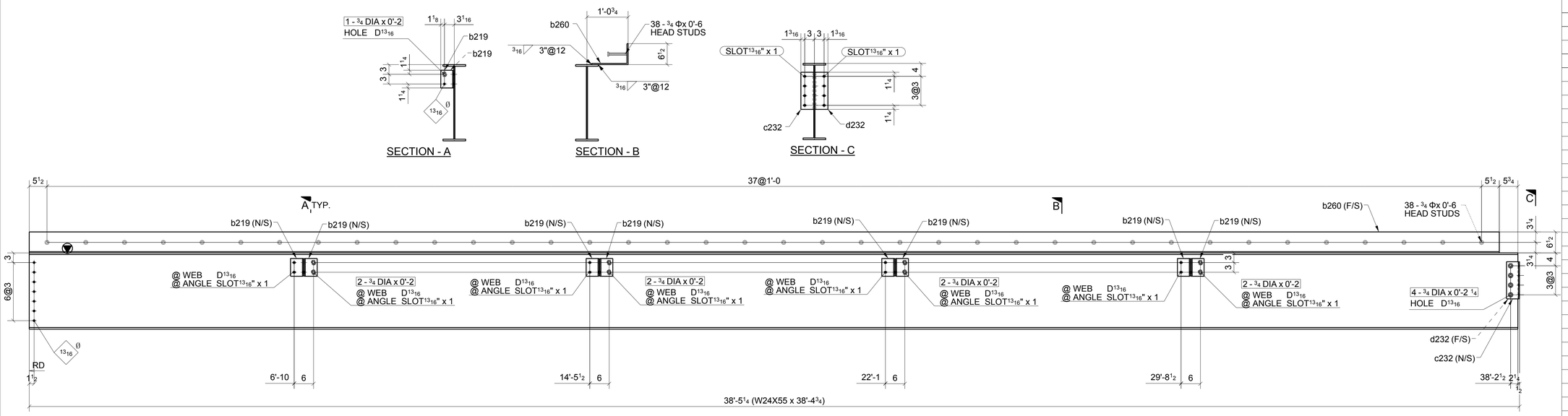
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 259



ONE - BEAM ~ 260A

LOCATION: (REF: E2B)
ONE @ 1.6-2/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	260A	W24X55	38'-4 3/4"	A992	
8	b219	L4X4X5/16	0'-5 1/2"	A36	
1	b260	BPL3/8"X17 3/4"	37'-11"	A36	
1	c232	L4X4X5/16	0'-11 1/2"	A36	
1	d232	L4X4X5/16	0'-11 1/2"	A36	
4		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	
38		3/4" STUD	0'-6"		

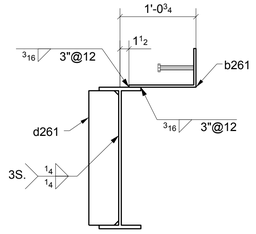
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 05/30/16

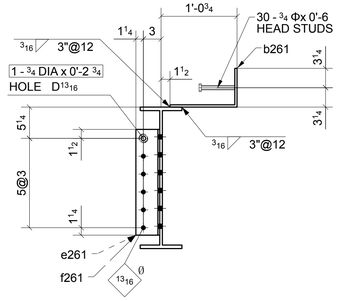
Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

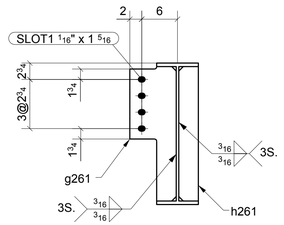
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 260



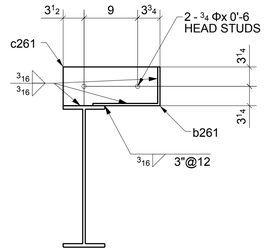
SECTION - A



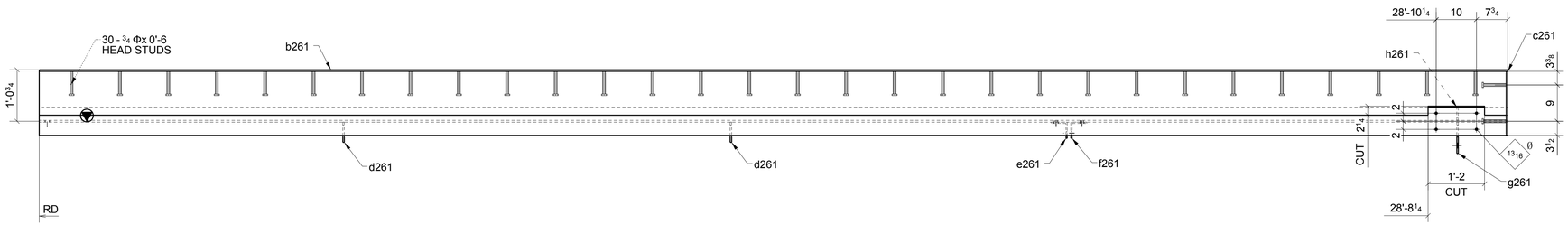
SECTION - B

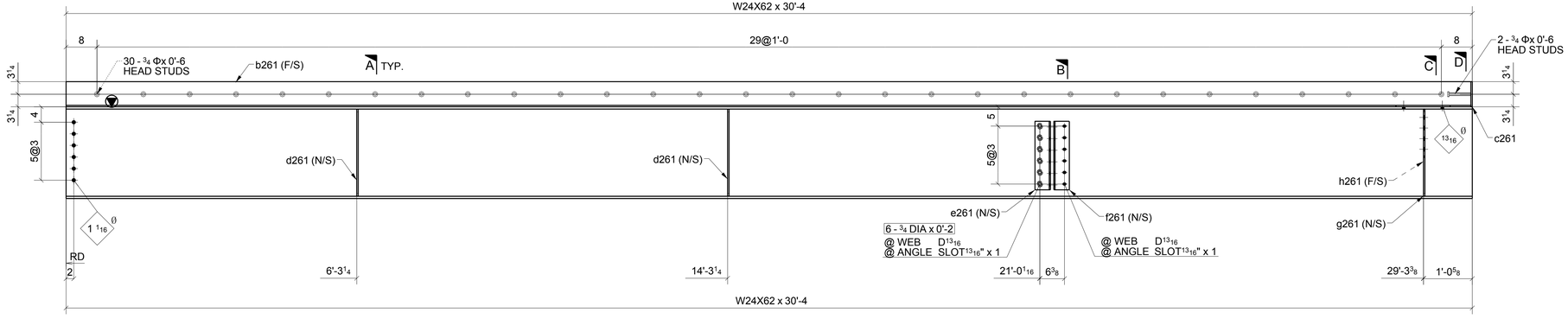


SECTION - C



SECTION - D





ONE - BEAM ~ 261A

LOCATION: (REF: E2B)
ONE @ 1/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	261A	W24X62	30'-4"	A992	
1	b261	BPL3/8"X17 3/4"	30'-4"	A36	
1	c261	PL3/8"X6 1/2"	1'-3 7/8"	A36	
2	d261	PL3/8"X5"	1'-10 9/16"	A36	
1	e261	L4X4X5/16	1'-5 3/4"	A36	
1	f261	L4X4X5/16	1'-5 3/4"	A36	
1	g261	PL3/8"X7 13/16"	1'-10 9/16"	A36	
1	h261	PL3/8"X3 5/16"	1'-10 9/16"	A36	
1		3/4" DIA. W/N&W	0'-2 3/4"	A325N TC	
6		3/4" DIA. W/N&W	0'-2"	A325N TC	
30		3/4" STUD	0'-6"		
2		3/4" STUD	0'-6"		

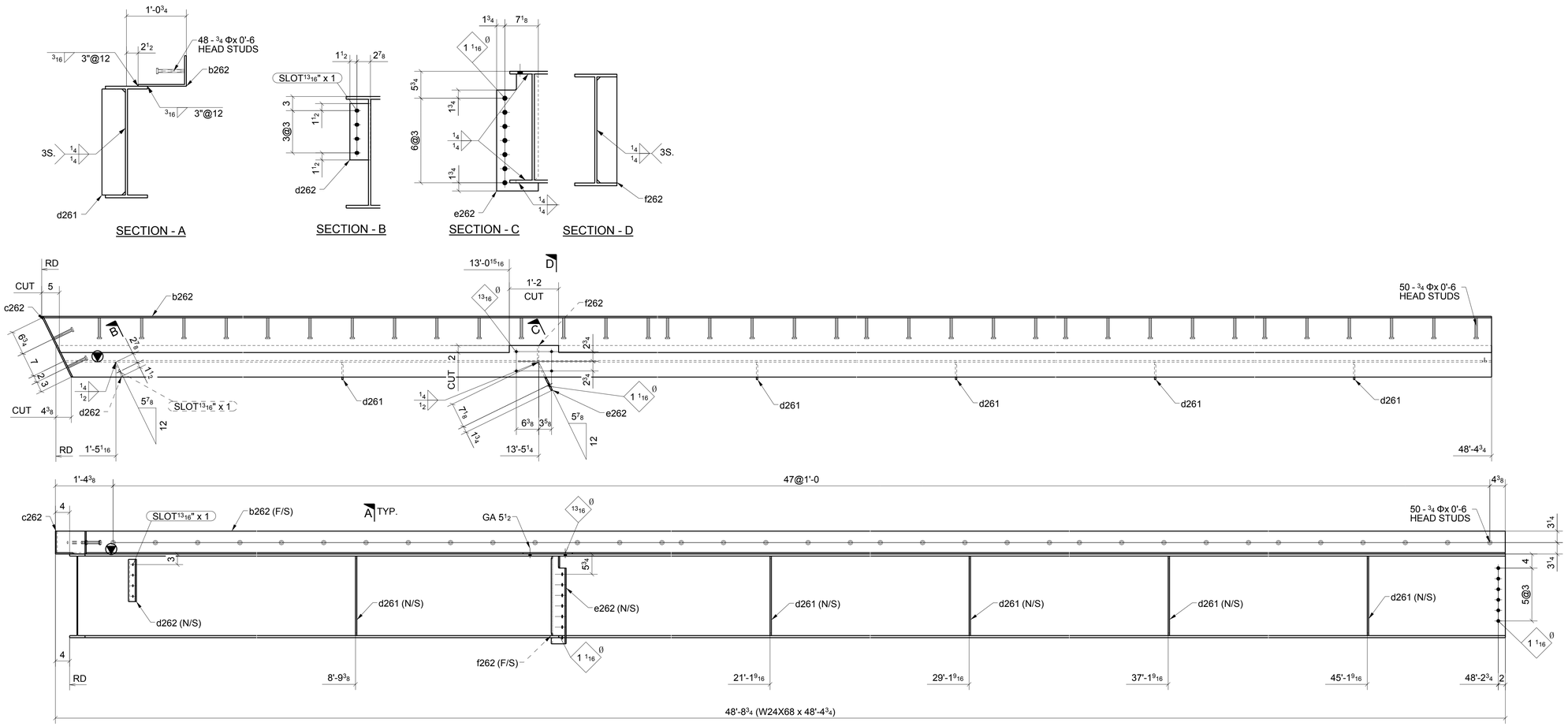
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A FOR APPROVAL 05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 261



ONE - BEAM ~ 262A

LOCATION: (REF: E2B)
ONE @ 1/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

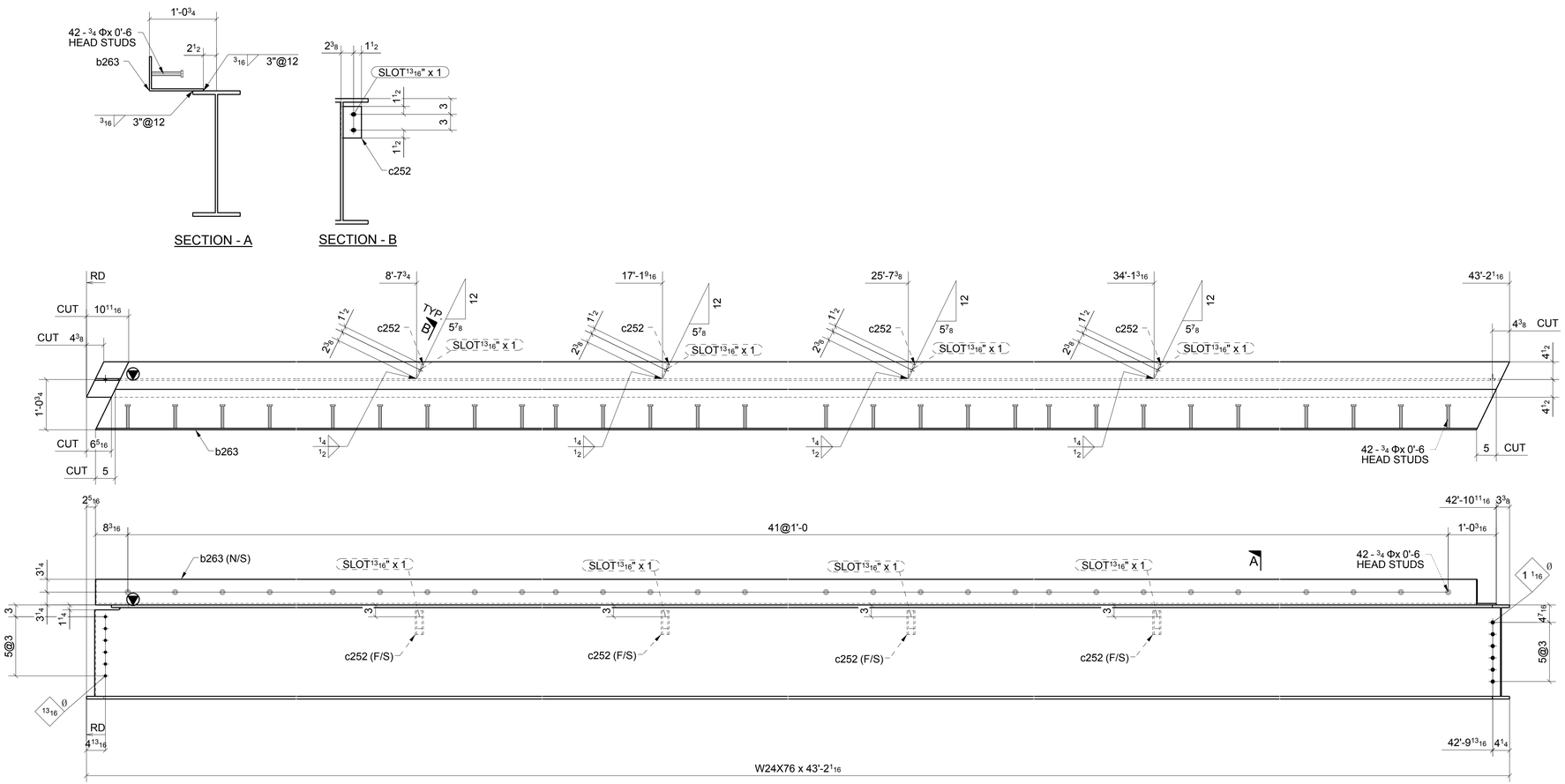
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	262A	W24X68	48'-4 3/4"	A992	
1	b262	BPL3/8"X16 3/4"	48'-8 3/4"	A36	
1	c262	PL3/8"X6 1/2"	1'-6 3/4"	A36	
5	d261	PL3/8"X5"	1'-10 9/16"	A36	
1	d262	PL3/8"X4 3/8"	1'-0"	A36	
1	e262	PL3/8"X8 7/8"	2'-0 15/16"	A36	
1	f262	PL3/8"X4 1/4"	1'-10 9/16"	A36	
48		3/4" STUD	0'-6"		
2		3/4" STUD	0'-6"		

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

A	FOR APPROVAL		05/30/16
Sequence: 2		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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 262



ONE - BEAM ~ 263A

LOCATION: (REF: E2B)
ONE @ 1.6-2/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

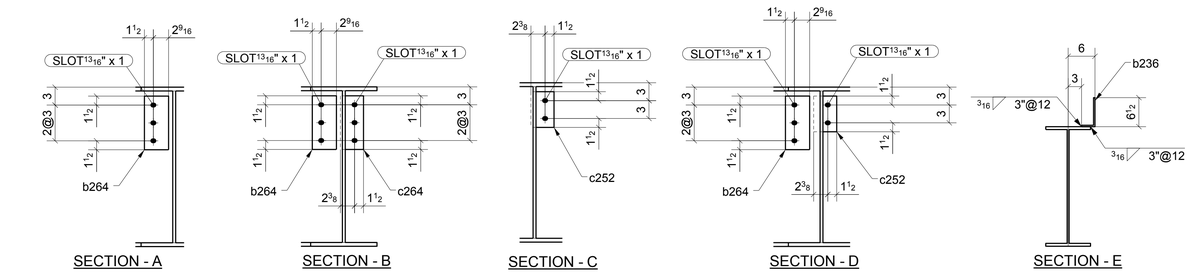
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	263A	W24X76	43'-2 1/16"	A992	
1	b263	BPL3/8"X16 3/4"	42'-8 3/8"	A36	
4	c252	PL3/8"X3 7/8"	0'-6"	A36	
42		3/4" STUD	0'-6"		

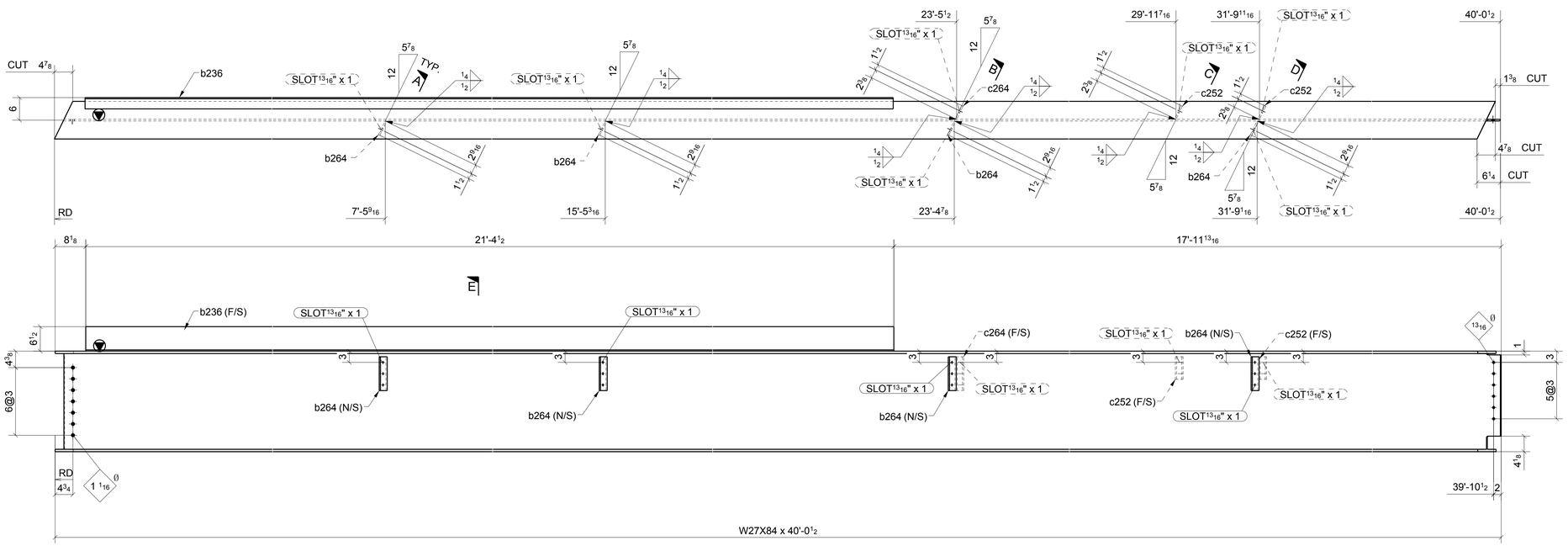
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 263





ONE - BEAM ~ 264A

LOCATION: (REF: E2B)
ONE @ 2-3/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	264A	W27X84	40'-0 1/2"	A992	
1	b236	PL5/16"X9 1/2"	21'-4 1/2"	A36	
4	b264	PL3/8"X4 1/16"	0'-9"	A36	
2	c252	PL3/8"X3 7/8"	0'-6"	A36	
1	c264	PL3/8"X3 7/8"	0'-9"	A36	

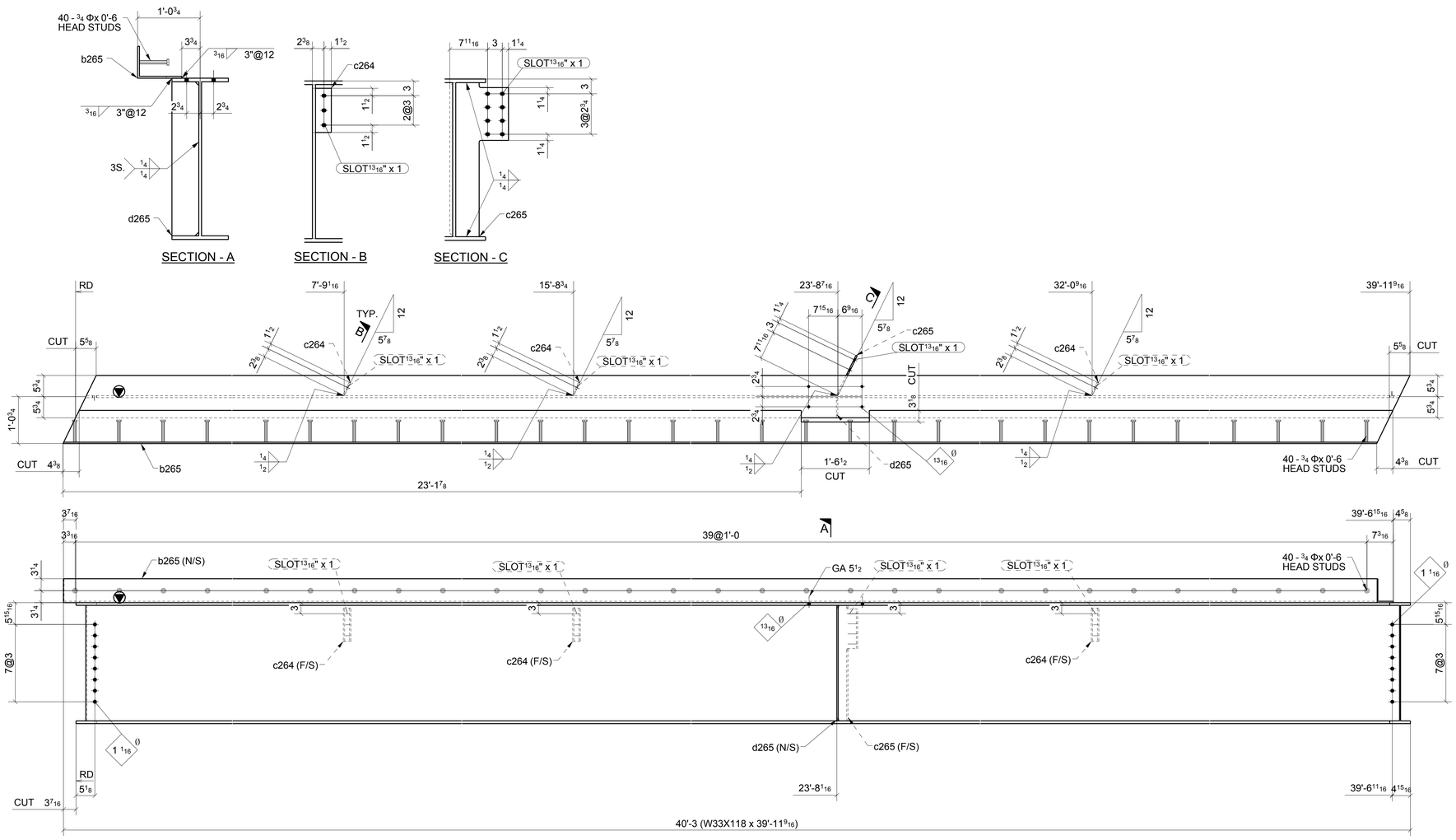
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 264



ONE - BEAM ~ 265A

LOCATION: (REF: E2B)
ONE @ 2-3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

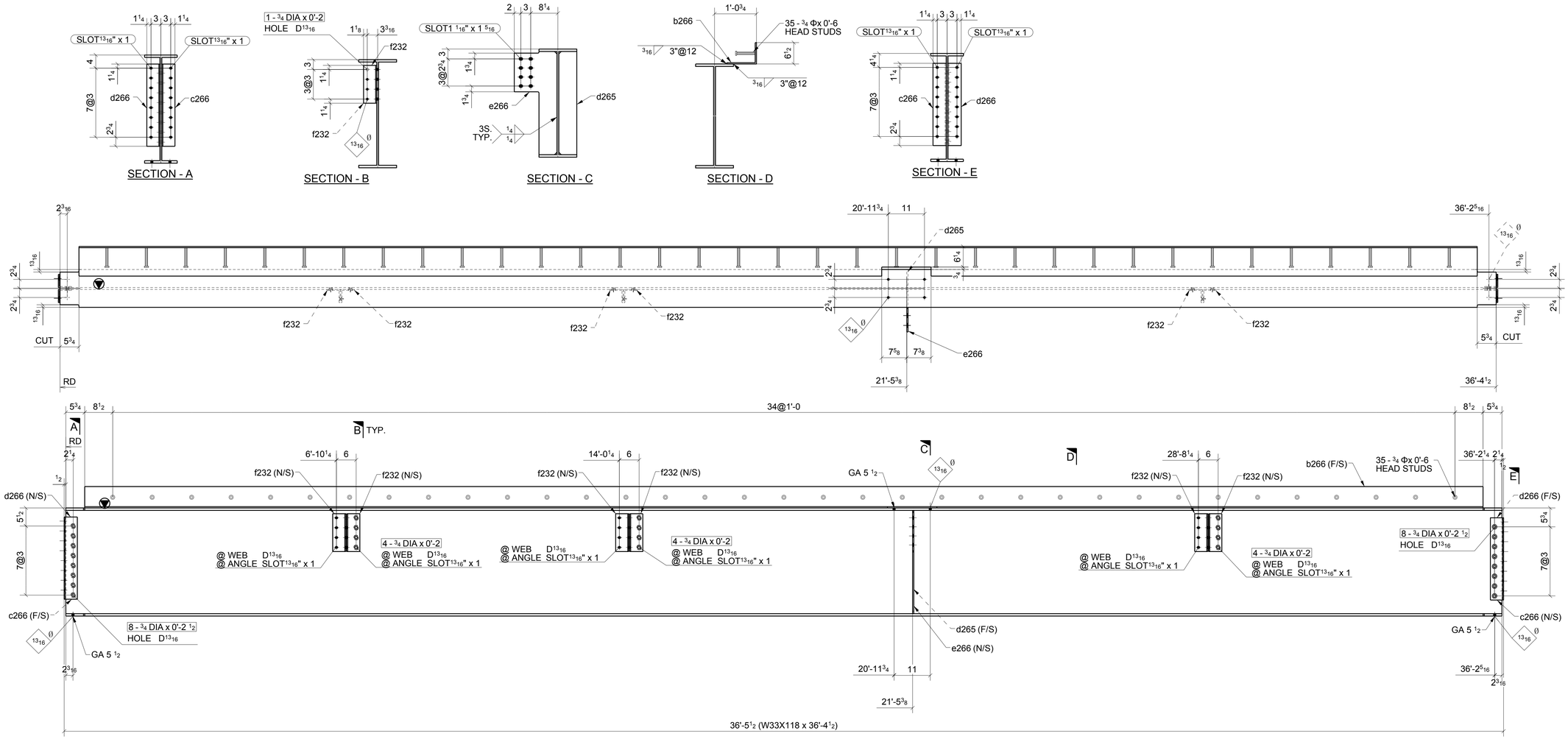
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	265A	W33X118	39'-11 9/16"	A992	
1	b265	BPL3/8"X15 1/2"	39'-10 3/8"	A36	
3	c264	PL3/8"X3 7/8"	0'-9"	A36	
1	c265	PL3/8"X11 15/16"	2'-7 3/8"	A36	
1	d265	PL3/8"X5 1/2"	2'-7 3/8"	A36	
40		3/4" STUD	0'-6"		

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

A	FOR APPROVAL		05/30/16
Sequence: 2		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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 265



ONE - BEAM ~ 266A

LOCATION: (REF: E2B)
ONE @ 2-3/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

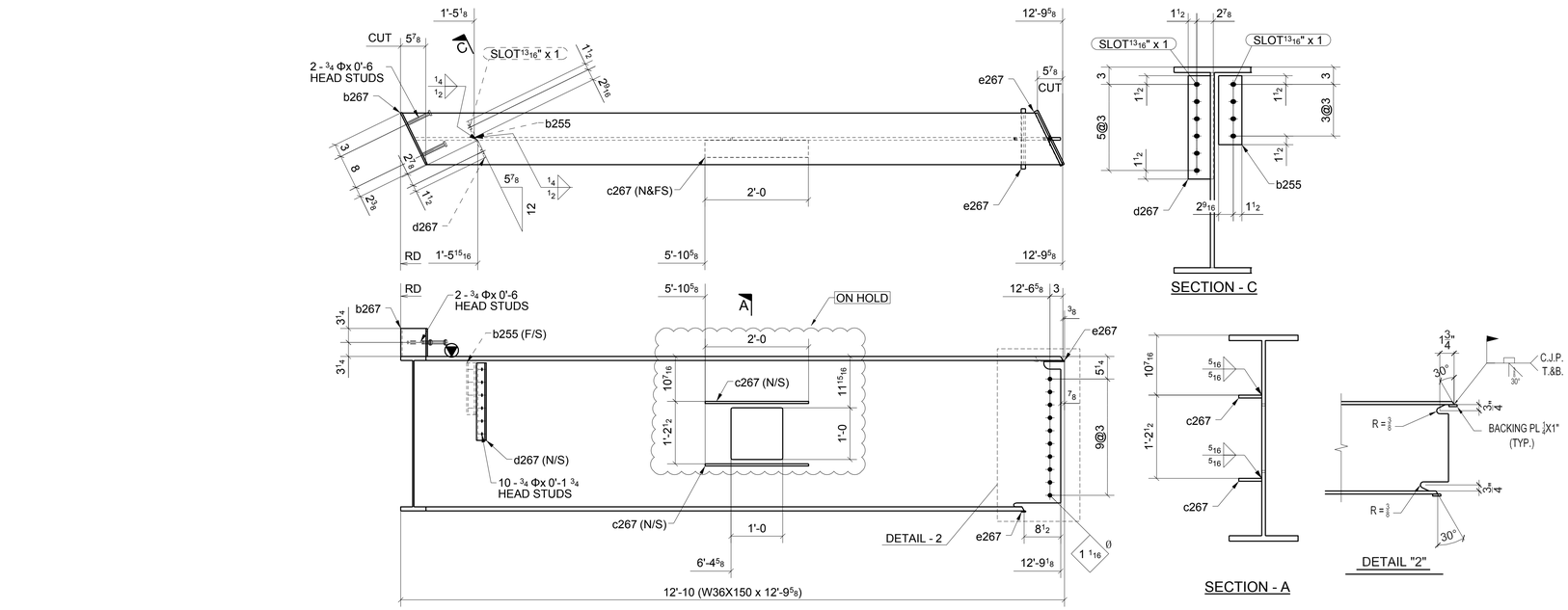
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	266A	W33X118	36'-4 1/2"	A992	
1	b266	BPL3/8"X15 1/2"	35'-5"	A36	
2	c266	L4X4X5/16	2'-1"	A36	
1	d265	PL3/8"X5 1/2"	2'-7 3/8"	A36	
2	d266	L4X4X5/16	2'-1"	A36	
1	e266	PL3/8"X12 15/16"	2'-7 3/8"	A36	
6	f232	L4X4X5/16	0'-11 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N TC	
12		3/4" DIA. W/N&W	0'-2"	A325N TC	
16		3/4" DIA. W/N&W	0'-2 1/2"	A325N TC	
35		3/4" STUD	0'-6"		

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

ATLAS IRON WORKS
ST. LOUIS, MO.

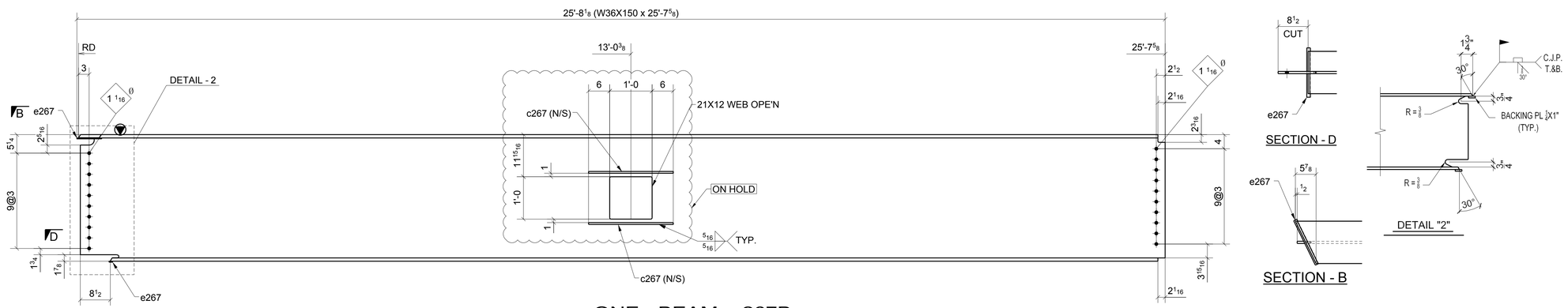
A	FOR APPROVAL 05/30/16
Sequence:	2
Ref. E-Plans:	--
Material:	A992 U.N.O.
Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.
Bolts:	NOTED
Cleaning:	NONE
Paint:	NO
DFT:	
COLOR:	

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: ZZ	Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No.	A16013 BAT: DWG#: 266



ONE - BEAM ~ 267A

LOCATION: (REF: E2B)
ONE @ 1.6/4-A.5



ONE - BEAM ~ 267B

LOCATION: (REF: E2B)
ONE @ 1.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

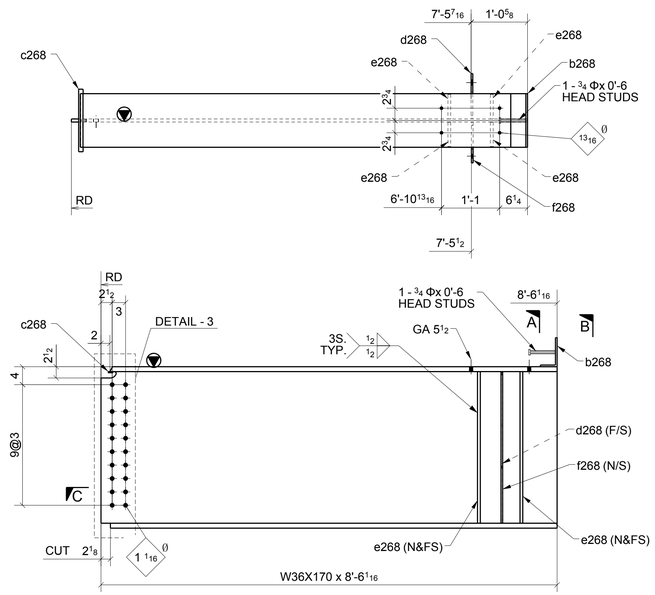
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	267A	W36X150	12'-9 5/8"	A992	
1	b255	PL3/8"X4 1/16"	1'-0"	A36	
1	b267	PL3/8"X6 1/2"	1'-1 3/8"	A36	
2	c267	PL1/2"X4"	2'-0"	A36	
1	d267	PL3/8"X4 3/8"	1'-6"	A36	
2	e267	PL1/4"X1"	1'-2"	A36	
2		3/4" STUD	0'-6"		
1	267B	W36X150	25'-7 5/8"	A992	
2	c267	PL1/2"X4"	2'-0"	A36	
2	e267	PL1/4"X1"	1'-2"	A36	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

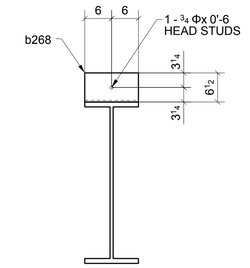
A	FOR APPROVAL		05/30/16
Sequence:	2	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 267

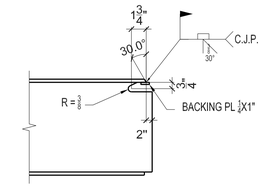


ONE - BEAM ~ 268A

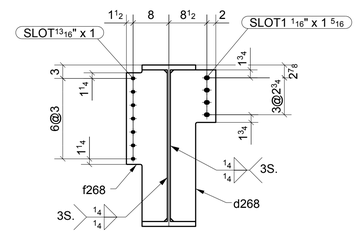
LOCATION: (REF: E2B)
ONE @ 1.6/C-C.3



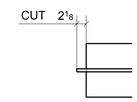
SECTION - B



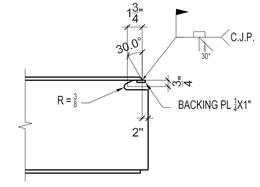
DETAIL "3"



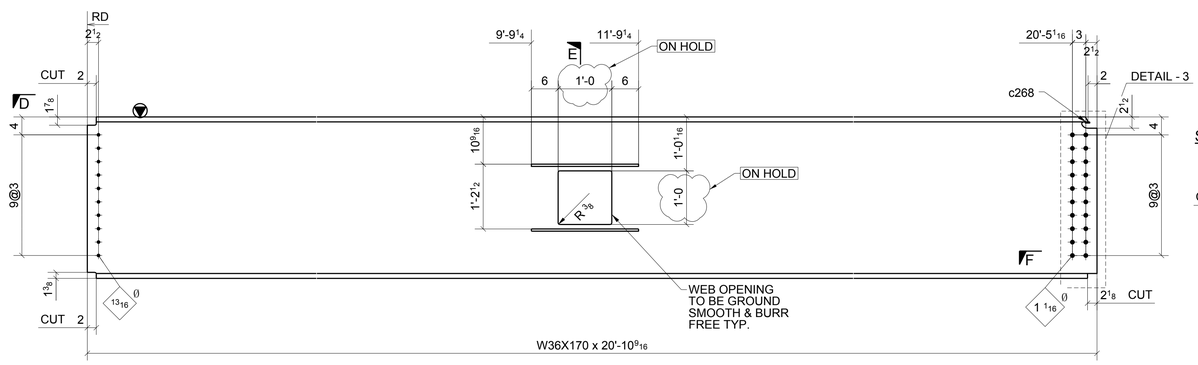
SECTION - A



SECTION - C

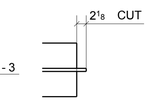


DETAIL "3"

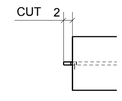


ONE - BEAM ~ 268B

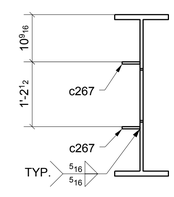
LOCATION: (REF: E2B)
ONE @ 1.6/B.3-C



SECTION - F



SECTION - D



SECTION - E

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

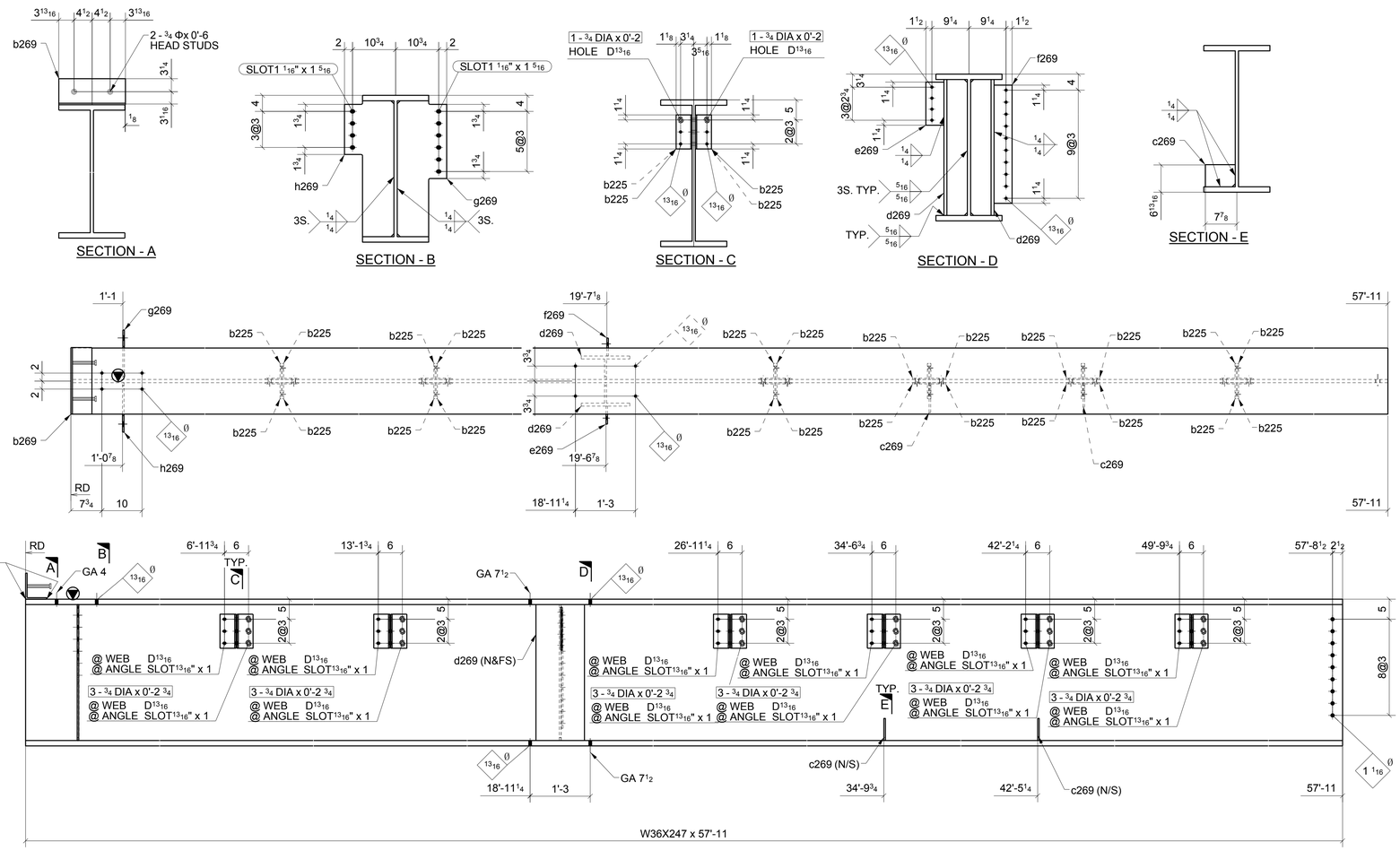
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	268A	W36X170	8'-6 1/16"	A992	
1	b268	BPL3/8"X10 1/4"	1'-0"	A36	
1	c268	PL1/4"X1"	1'-2"	A36	
1	d268	PL3/8"X10 3/16"	2'-9 15/16"	A36	
4	e268	PL5/8"X5 1/2"	2'-9 15/16"	A36	
1	f268	PL3/8"X9 1/8"	2'-9 15/16"	A36	
1		3/4" STUD	0'-6"		
1	268B	W36X170	20'-10 9/16"	A992	
2	c267	PL1/2"X4"	2'-0"	A36	
1	c268	PL1/4"X1"	1'-2"	A36	

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 268



ONE - BEAM ~ 269A

LOCATION: (REF: E2B)
ONE @ 1-2/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

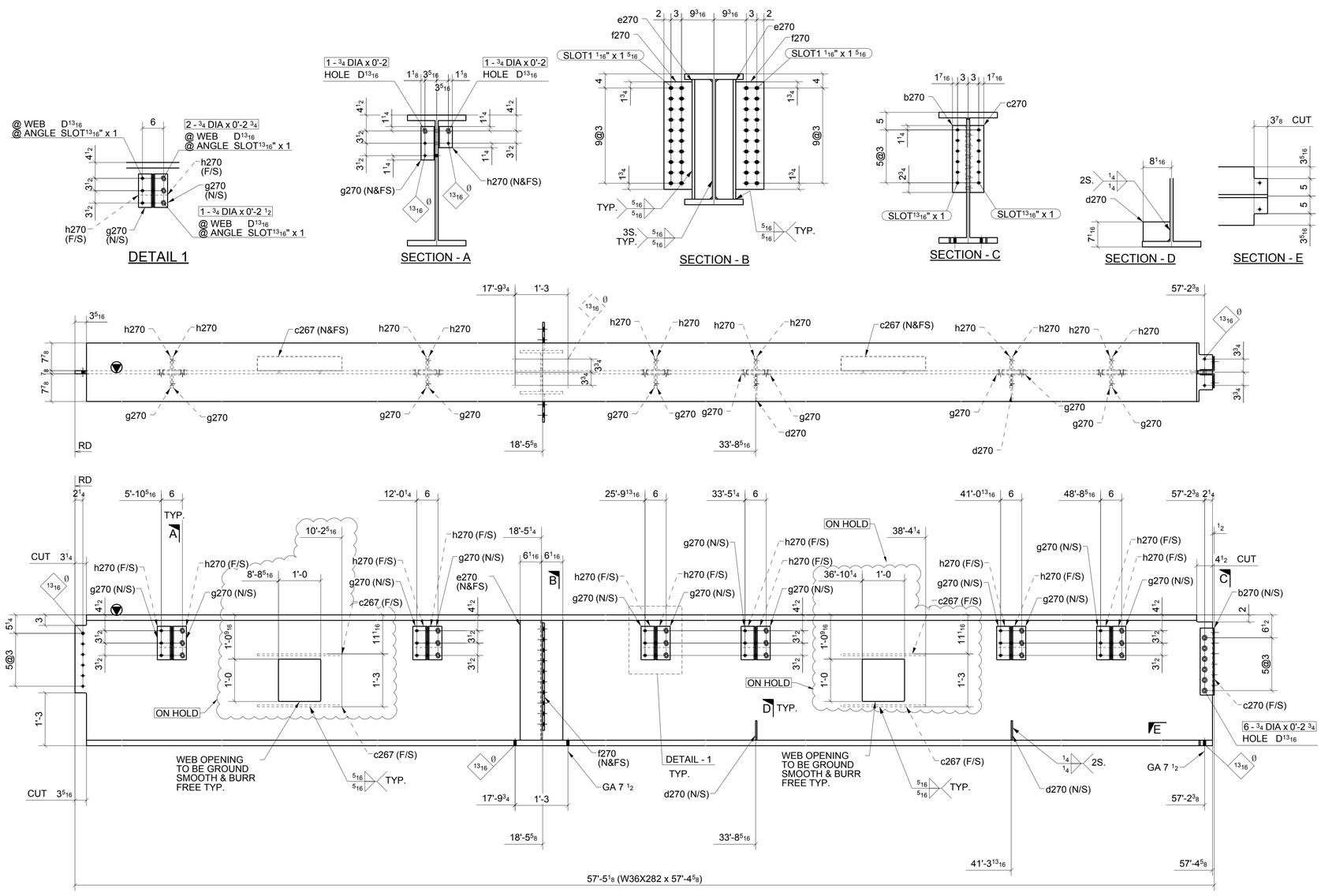
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	269A	W36X247	57'-11"	A992	
24	b225	L4X4X5/16	0'-8 1/2"	A36	
1	b269	BPL3/8"X11 3/4"	1'-4 5/8"	A36	
2	c269	PL3/8"X5 1/2"	0'-7 7/16"	A36	
2	d269	WT6X39.5	2'-9 15/16"	A992	
1	e269	PL3/8"X4 1/2"	0'-10 3/4"	A36	
1	f269	PL3/8"X4 1/2"	2'-5 1/2"	A36	
1	g269	PL3/8"X12 3/8"	2'-9 15/16"	A36	
1	h269	PL3/8"X12 3/8"	2'-9 15/16"	A36	
12		3/4" DIA. W/N&W	0'-2"	A325N_TC	
18		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	
2		3/4" STUD	0'-6"		

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

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 269



ONE - BEAM ~ 270A

LOCATION:
ONE @ 1-2/C

(REF: E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	270A	W36X282	57'-4 5/8"	A992	
1	b270	L4X4X5/16	1'-7"	A36	
4	c267	PL1/2"X4"	2'-0"	A36	
1	c270	L4X4X5/16	1'-7"	A36	
2	d270	PL3/8"X5 1/2"	0'-7 5/8"	A36	
2	e270	WT6X39.5	2'-10"	A992	
2	f270	PL1/2"X8"	2'-6 1/2"	A572-GR.50	
12	g270	L4X4X5/16	0'-9 1/2"	A36	
12	h270	L4X4X5/16	0'-6"	A36	
6		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	

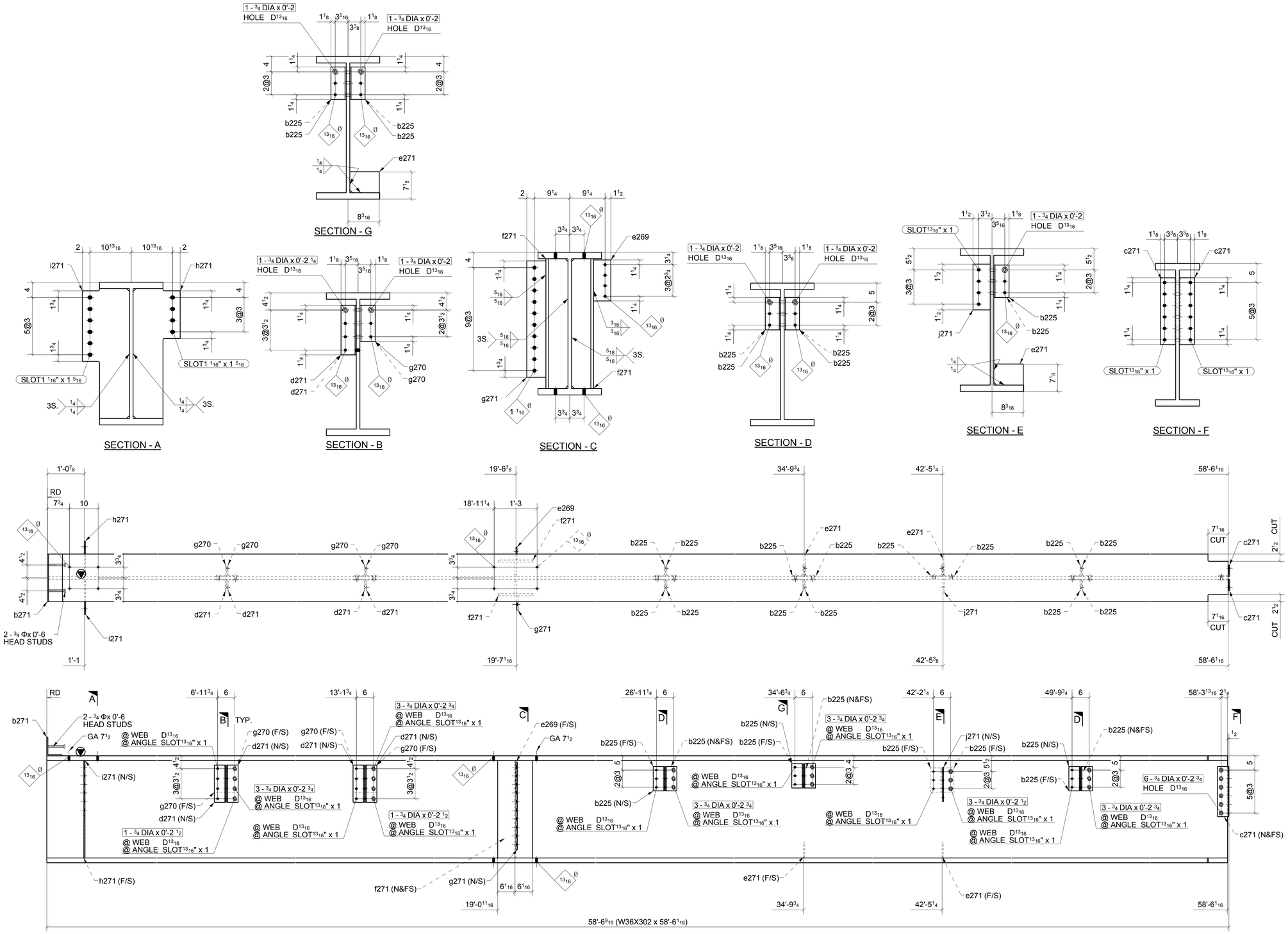
Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 270



ONE - BEAM ~ 271A

LOCATION: (REF: E2B)
ONE @ 1-2/A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	271A	W36X302	58'-6"	A992	
14	b225	L4X4X5/16	0'-8 1/2"	A36	
1	b271	BPL3/8"X11 3/4"	1'-4 5/8"	A36	
2	c271	L4X4X5/16	1'-5 1/2"	A36	
4	d271	L4X4X5/16	1'-1"	A36	
1	e269	PL3/8"X4 1/2"	0'-10 3/4"	A36	
2	e271	PL3/8"X5 1/2"	0'-7 11/16"	A36	
2	f271	WT6X39.5	2'-10"	A992	
4	g270	L4X4X5/16	0'-9 1/2"	A36	
1	g271	PL1/2"X5"	2'-6 1/2"	A572-GR.50	
1	h271	PL3/8"X12 3/8"	2'-10"	A36	
1	i271	PL3/8"X12 3/8"	2'-10"	A36	
1	j271	PL3/8"X4 1/2"	1'-0"	A36	
3		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2"	A325N_TC	
15		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	
2		3/4" STUD	0'-6"		

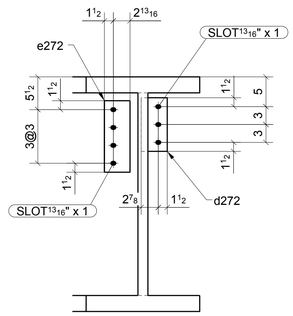
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

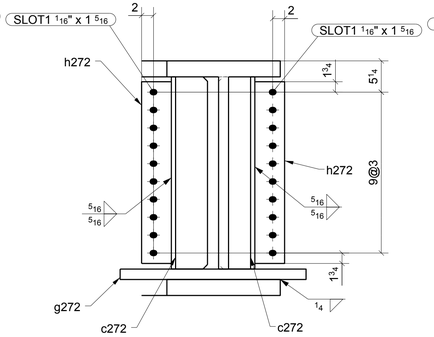
A	FOR APPROVAL	05/30/16

Sequence: 2 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:

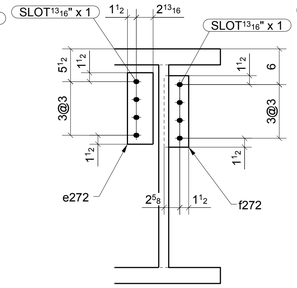
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 271



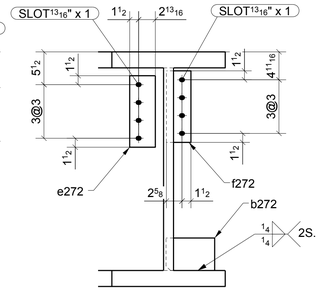
SECTION - B



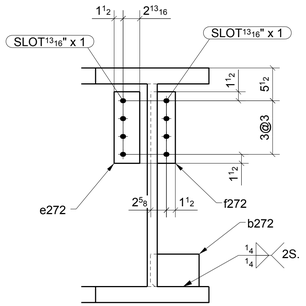
SECTION - C



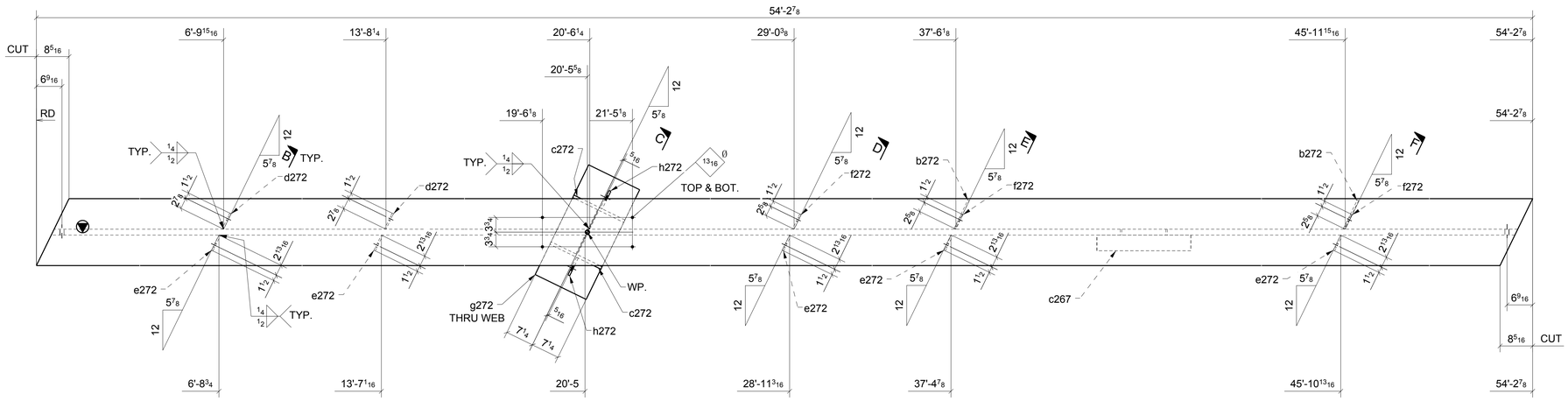
SECTION - D

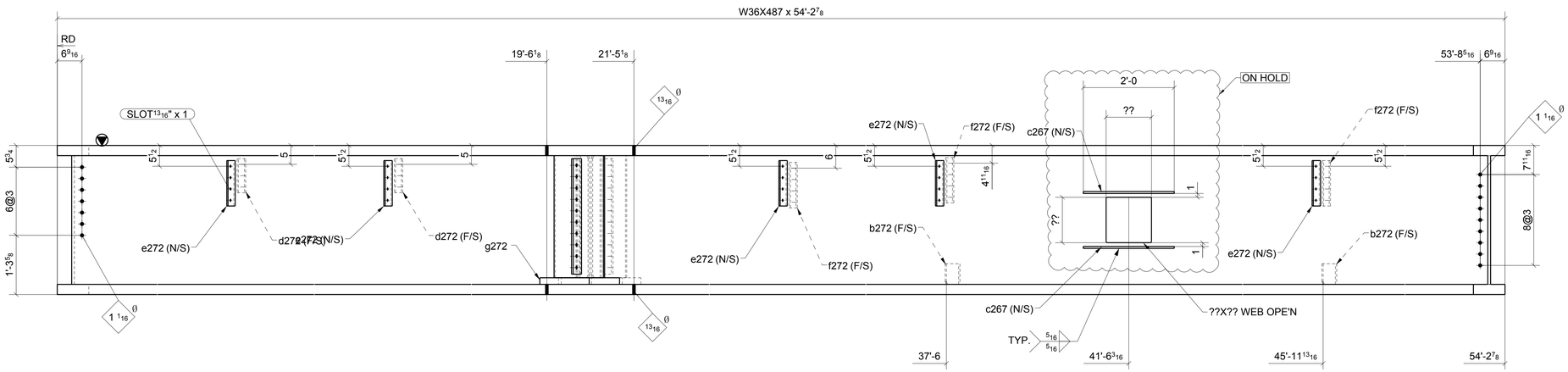


SECTION - E



SECTION - F





ONE - BEAM ~ 272A

LOCATION: (REF: E2B)
ONE @ 1-1.9/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	272A	W36X487	54'-2 7/8"	A992	
2	b272	PL3/8"X5 7/16"	0'-8 3/16"	A36	
2	c267	PL1/2"X4"	2'-0"	A36	
2	c272	WT7X45	2'-8 1/4"	A992	
2	d272	PL3/8"X4 3/8"	0'-9"	A36	
5	e272	PL3/8"X4 5/16"	1'-0"	A36	
3	f272	PL3/8"X4 1/8"	1'-0"	A36	
1	g272	PL1 3/4"X14 1/2"	2'-7 3/16"	A36	
2	h272	PL1/2"X5"	2'-6 1/2"	A572-GR.50	

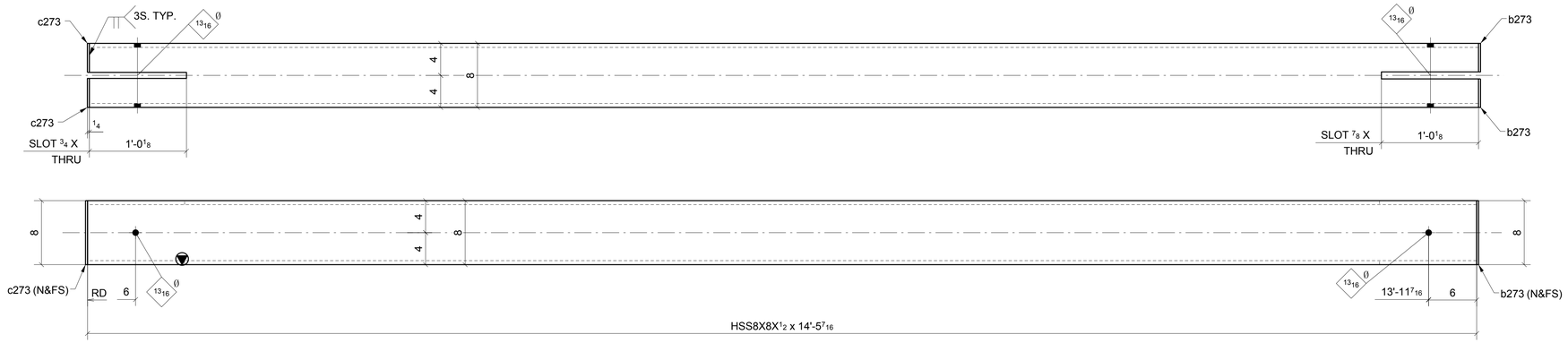
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A FOR APPROVAL 05/30/16

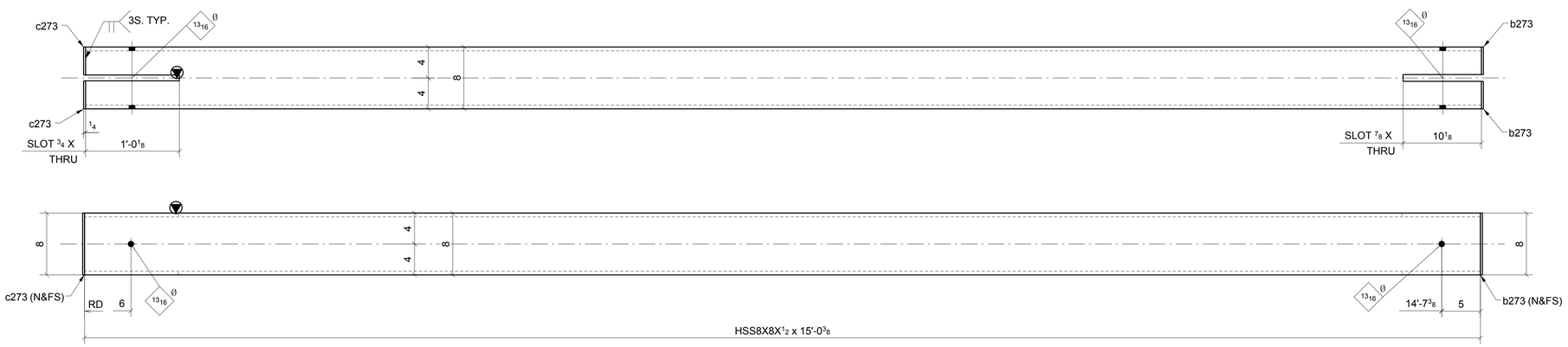
Sequence: 2 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016
Job No. A16013 BAT: DWG#: 272



ONE - VERTICAL BRACE ~ 273A

(REF: E2D)



ONE - VERTICAL BRACE ~ 273B

(REF: E2D)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	273A	HSS8X8X1/2	14'-5 7/16"	A500-GR.B-	
2	b273	PL1/4"X3 9/16"	0'-8"	A36	
2	c273	PL1/4"X3 5/8"	0'-8"	A36	
1	273B	HSS8X8X1/2	15'-0 3/8"	A500-GR.B-	
2	b273	PL1/4"X3 9/16"	0'-8"	A36	
2	c273	PL1/4"X3 5/8"	0'-8"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A FOR APPROVAL 05/30/16

Sequence: 2 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

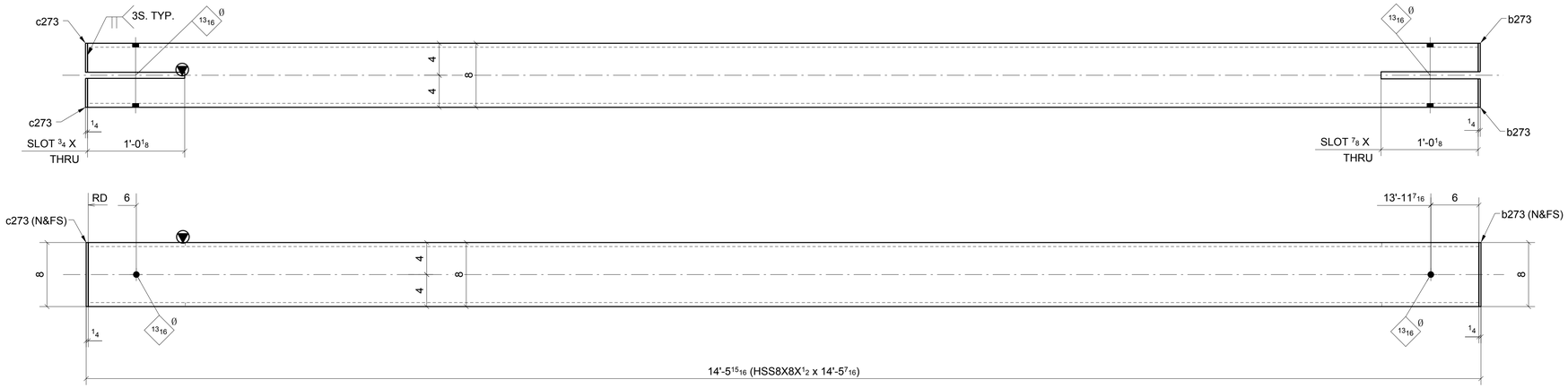
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

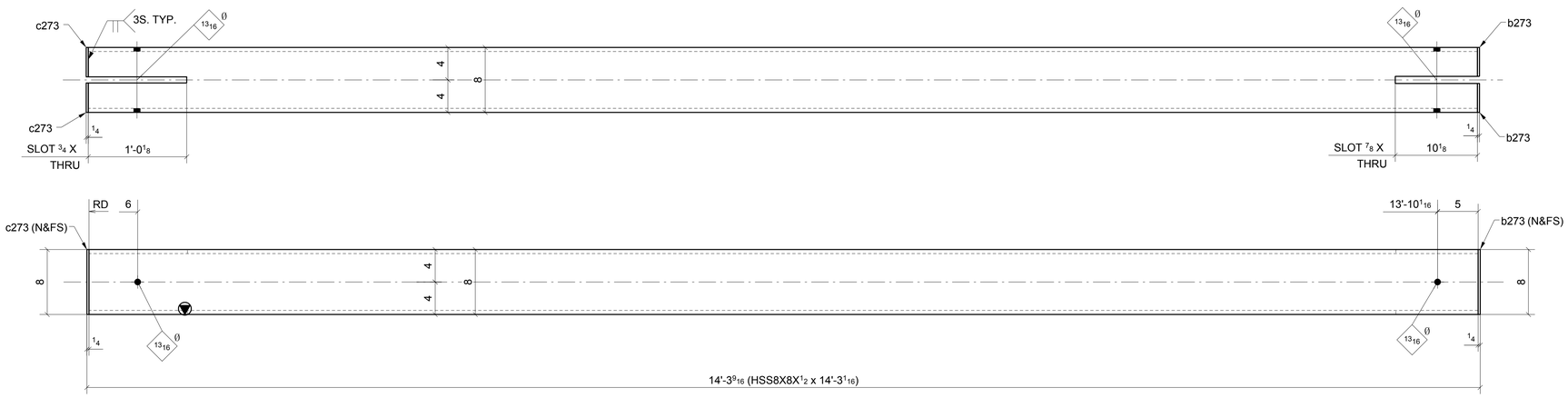
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 273



ONE - VERTICAL BRACE ~ 274A

(REF: E2D)



ONE - VERTICAL BRACE ~ 274B

(REF: E2D)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	274A	HSS8X8X1/2	14'-5 7/16"	A500-GR.B-	
2	b273	PL1/4"X3 9/16"	0'-8"	A36	
2	c273	PL1/4"X3 5/8"	0'-8"	A36	
1	274B	HSS8X8X1/2	14'-3 1/16"	A500-GR.B-	
2	b273	PL1/4"X3 9/16"	0'-8"	A36	
2	c273	PL1/4"X3 5/8"	0'-8"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	05/30/16

Sequence: 2 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

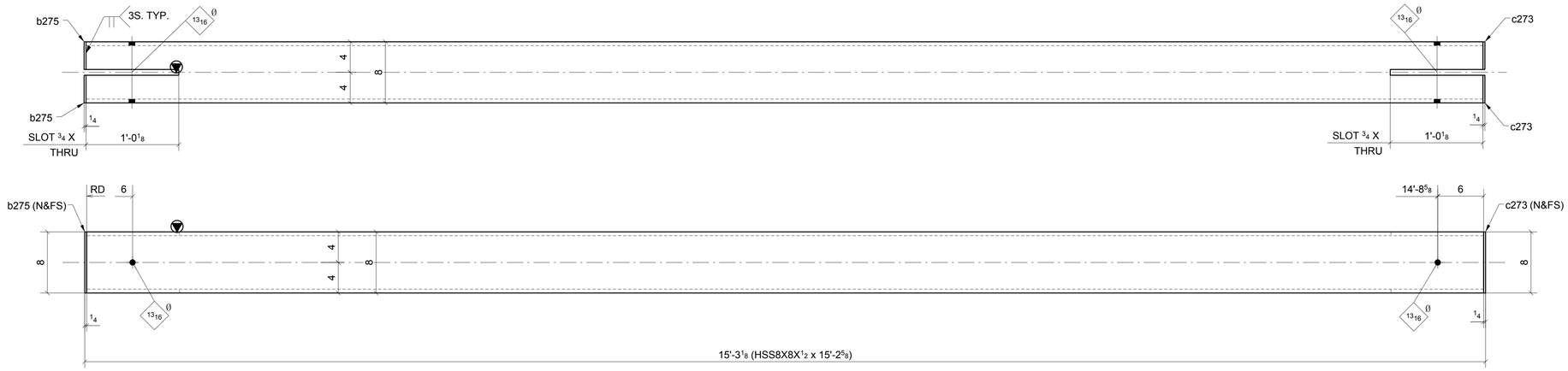
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

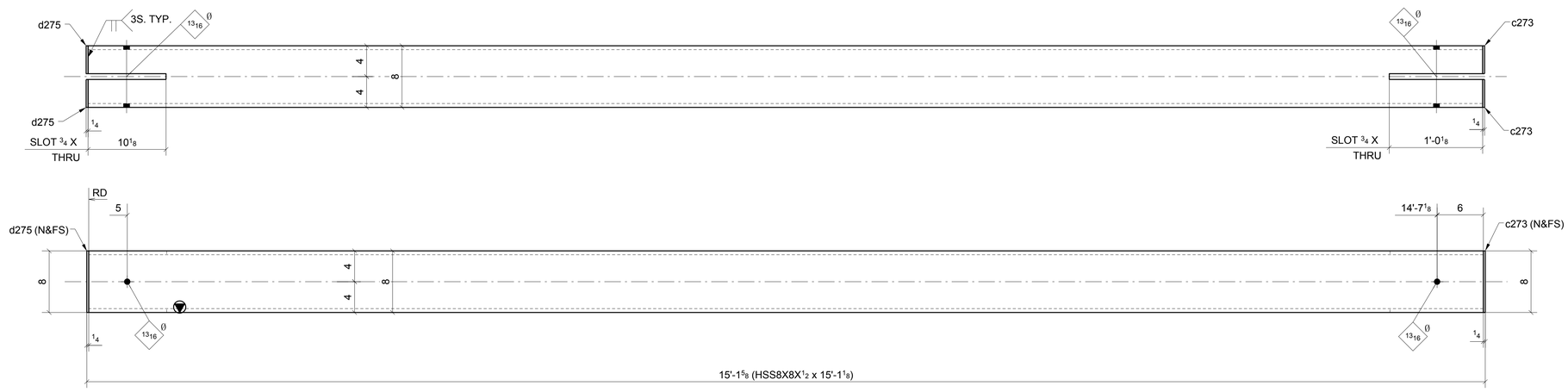
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 274



2 - VERTICAL BRACES ~ 275A

(REF: E2D)



ONE - VERTICAL BRACE ~ 275B

(REF: E2D)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	275A	HSS8X8X1/2	15'-2 5/8"	A500-GR.B-	
4	b275	PL1/4"X3 5/8"	0'-8"	A36	
4	c273	PL1/4"X3 5/8"	0'-8"	A36	
1	275B	HSS8X8X1/2	15'-1 1/8"	A500-GR.B-	
2	c273	PL1/4"X3 5/8"	0'-8"	A36	
2	d275	PL1/4"X3 5/8"	0'-8"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A FOR APPROVAL 05/30/16

Sequence: 2 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

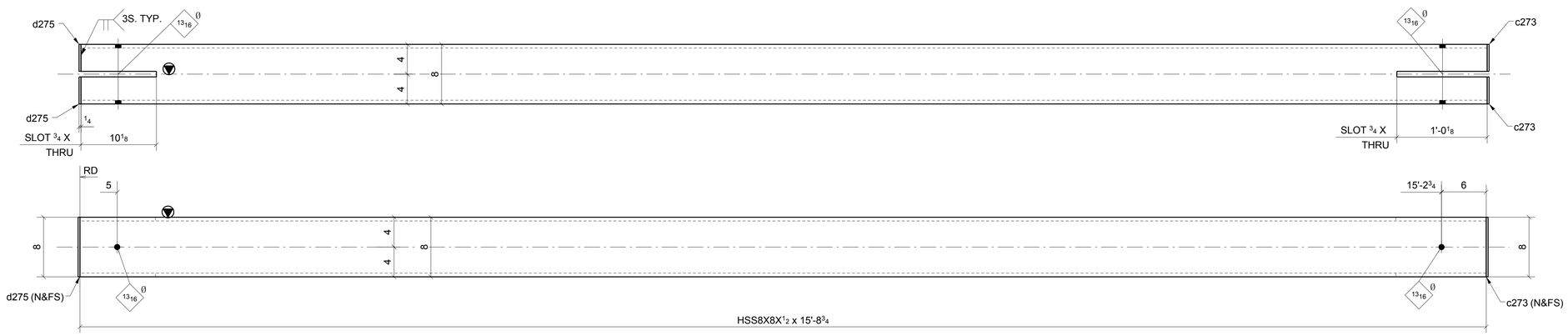
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 275



ONE - VERTICAL BRACE ~ 276A

(REF: E2D)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	276A	HSS8X8X1/2	15'-8 3/4"	A500-GR.B-	
2	c273	PL 1/4"X3 5/8"	0'-8"	A36	
2	d275	PL 1/4"X3 5/8"	0'-8"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL		05/30/16
Sequence:	2	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

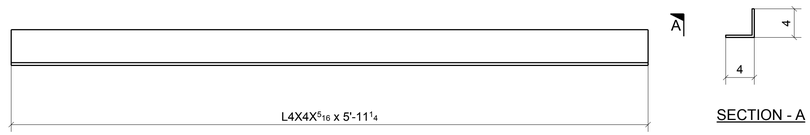
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

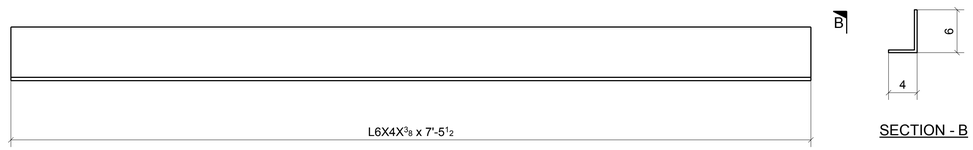
Job No. A16013 BAT: DWG#: 276



SECTION - A

4 - ANGLES ~ 277A

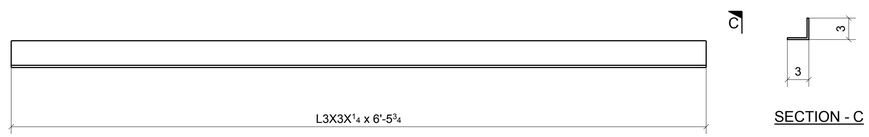
(REF: E2A,E2B)



SECTION - B

2 - ANGLES ~ 277B

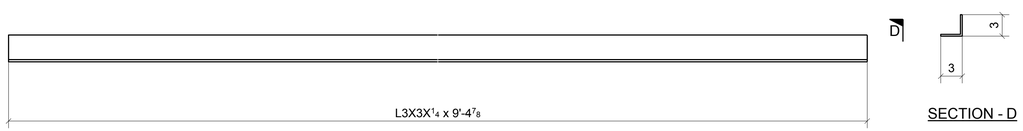
(REF: E2A)



SECTION - C

2 - ANGLES ~ 277C

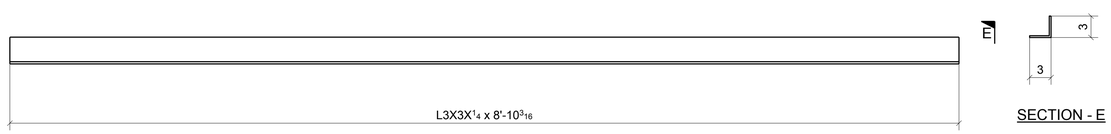
(REF: E2A)



SECTION - D

4 - ANGLES ~ 277D

(REF: E2A)



SECTION - E

2 - ANGLES ~ 277F

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
4	277A	L4X4X5/16	5'-11 1/4"	A36	
2	277B	L6X4X3/8	7'-5 1/2"	A36	
2	277C	L3X3X1/4	6'-5 3/4"	A36	
4	277D	L3X3X1/4	9'-4 7/8"	A36	
2	277F	L3X3X1/4	8'-10 3/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A FOR APPROVAL 05/30/16

Sequence: 2 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

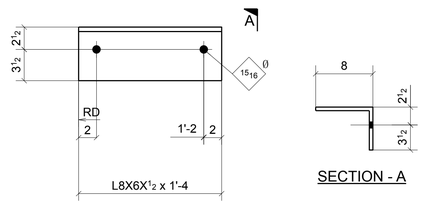
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

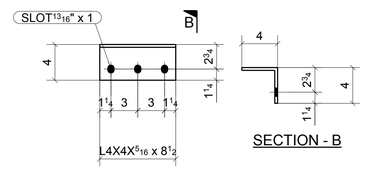
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 277



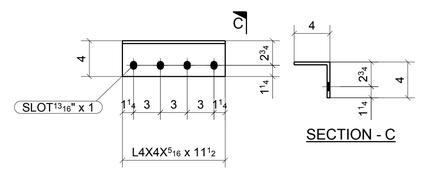
6 - ANGLES ~ 278B

(REF: E2A)



8 - ANGLES ~ 278C

(REF: E2A)



10 - ANGLES ~ 278D

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
6	278B	L8X6X1/2	1'-4"	A36	
8	278C	L4X4X5/16	0'-8 1/2"	A36	
10	278D	L4X4X5/16	0'-11 1/2"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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

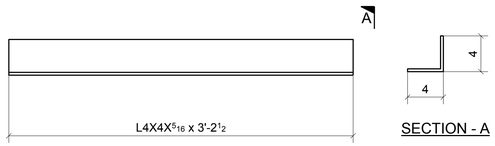
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

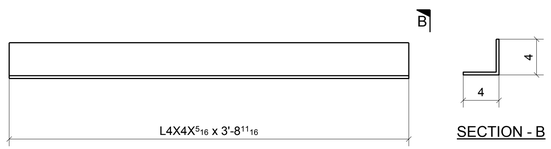
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 278



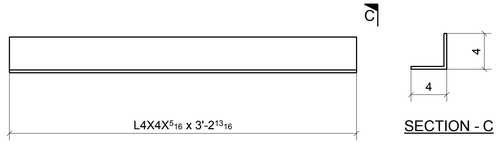
2 - ANGLES ~ 279A

(REF: E2B)



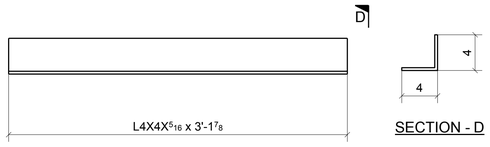
ONE - ANGLE ~ 279B

(REF: E2B)



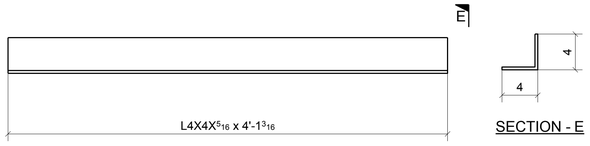
2 - ANGLES ~ 279C

(REF: E2B)



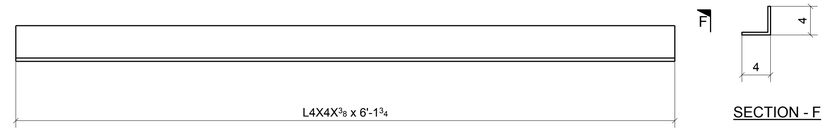
2 - ANGLES ~ 279D

(REF: E2B)



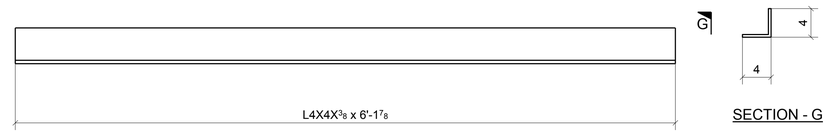
ONE - ANGLE ~ 279F

(REF: E2B)



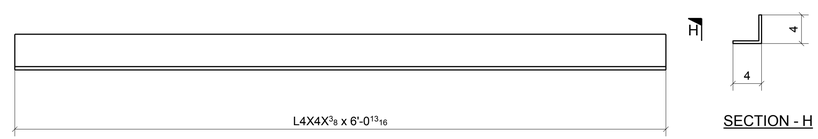
4 - ANGLES ~ 279H

(REF: E2B)



3 - ANGLES ~ 279K

(REF: E2B)



2 - ANGLES ~ 279M

(REF: E2B)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	279A	L4X4X5/16	3'-2 1/2"	A36	
1	279B	L4X4X5/16	3'-8 11/16"	A36	
2	279C	L4X4X5/16	3'-2 13/16"	A36	
2	279D	L4X4X5/16	3'-1 7/8"	A36	
1	279F	L4X4X5/16	4'-1 3/16"	A36	
4	279H	L4X4X3/8	6'-1 3/4"	A36	
3	279K	L4X4X3/8	6'-1 7/8"	A36	
2	279M	L4X4X3/8	6'-0 13/16"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	05/30/16

Sequence: 2 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

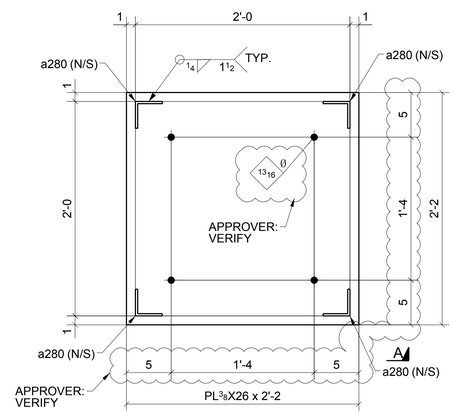
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

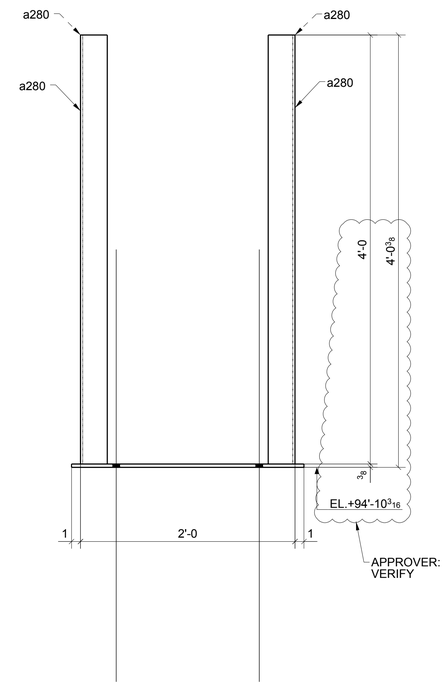
Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 279

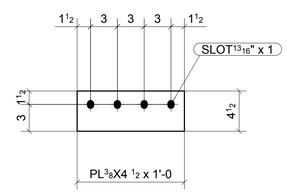


ONE - PLATE ~ 280A

(REF: E2A)

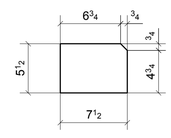


SECTION - A



3 - PLATES ~ 280B

(REF: E2A)



4 - PLATES ~ 280C

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	280A	PL3/8"X26"	2'-2"	A36	
4	a280	L3X3X1/4	4'-0"	A36	
3	280B	PL3/8"X4 1/2"	1'-0"	A36	
4	280C	PL3/8"X5 1/2"	0'-7 1/2"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

ATLAS IRON WORKS

ST. LOUIS, MO.

A	FOR APPROVAL		05/30/16
Sequence:	2	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

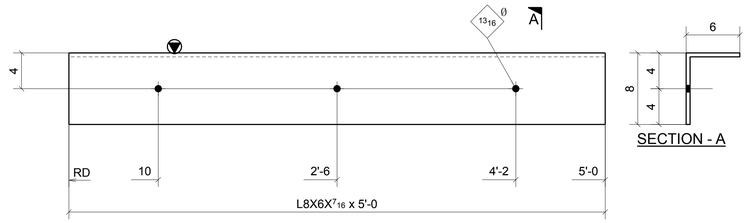
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

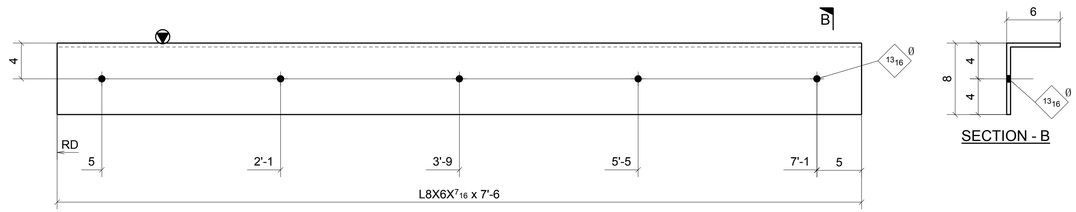
Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

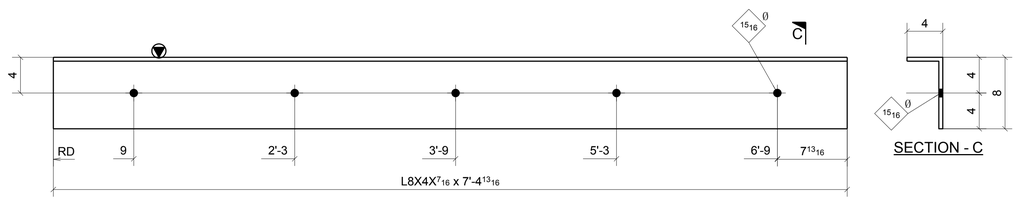
Job No. A16013 BAT: _____ DWG#: 280



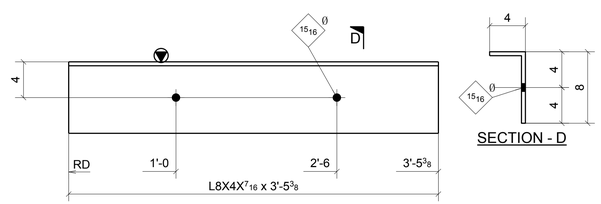
ONE - SUPPORT ANGLE ~ 281A
(REF: E2A)



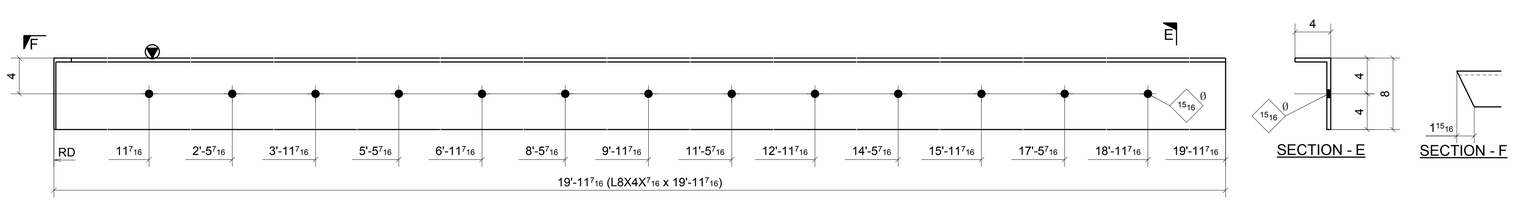
3 - SUPPORT ANGLES ~ 281B
(REF: E2A)



ONE - SUPPORT ANGLE ~ 281C
(REF: E2A)



ONE - SUPPORT ANGLE ~ 281D
(REF: E2A)



ONE - SUPPORT ANGLE ~ 281F
(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	281A	L8X6X7/16	5'-0"	A36	
3	281B	L8X6X7/16	7'-6"	A36	
1	281C	L8X4X7/16	7'-4 13/16"	A36	
1	281D	L8X4X7/16	3'-5 3/8"	A36	
1	281F	L8X4X7/16	19'-11 7/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

ATLAS IRON WORKS
ST. LOUIS, MO.

A — FOR APPROVAL — 05/30/16

Sequence: 2 — 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

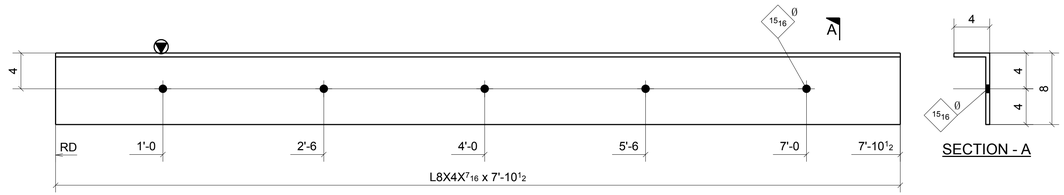
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

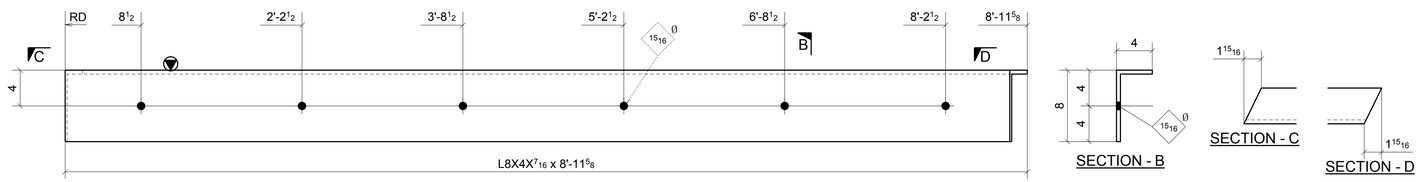
Dwn: TLI Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 281



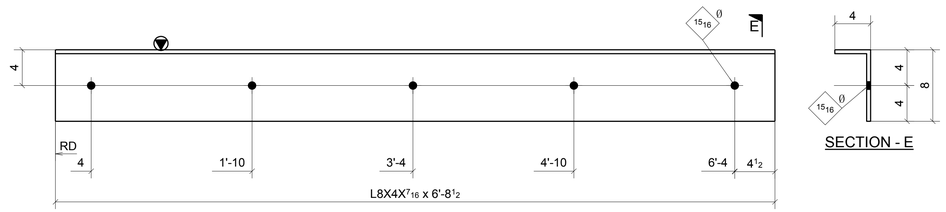
ONE - SUPPORT ANGLE ~ 282A

(REF: E2A)



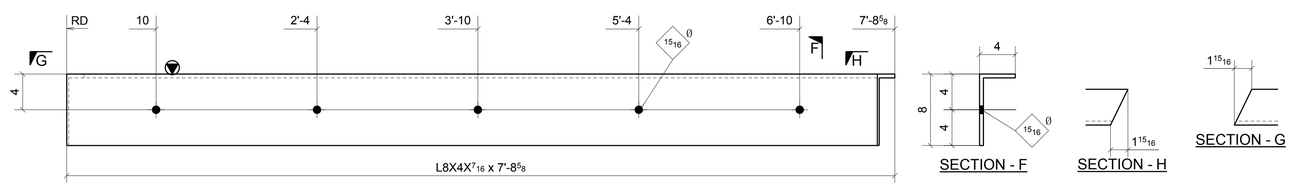
ONE - SUPPORT ANGLE ~ 282B

(REF: E2A)



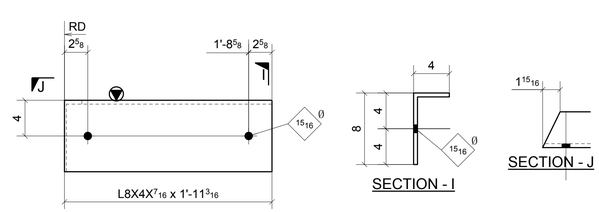
2 - SUPPORT ANGLES ~ 282C

(REF: E2A)



2 - SUPPORT ANGLES ~ 282D

(REF: E2A)



ONE - SUPPORT ANGLE ~ 282F

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	282A	L8X4X7/16	7'-10 1/2"	A36	
1	282B	L8X4X7/16	8'-11 5/8"	A36	
2	282C	L8X4X7/16	6'-8 1/2"	A36	
2	282D	L8X4X7/16	7'-8 5/8"	A36	
1	282F	L8X4X7/16	1'-11 3/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

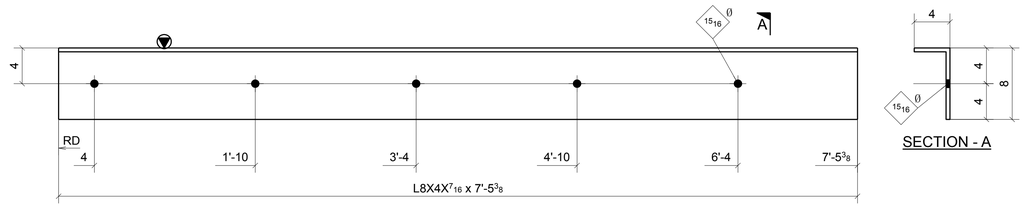
ATLAS IRON WORKS

ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: TLI	Date: 05/30/2016	Ckd: LJ	Date: 05/30/2016
Job No. A16013	BAT:	DWG#: 282	

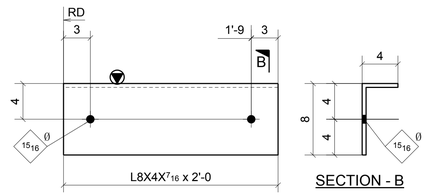
A	FOR APPROVAL	05/30/16

Sequence:	2	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:	



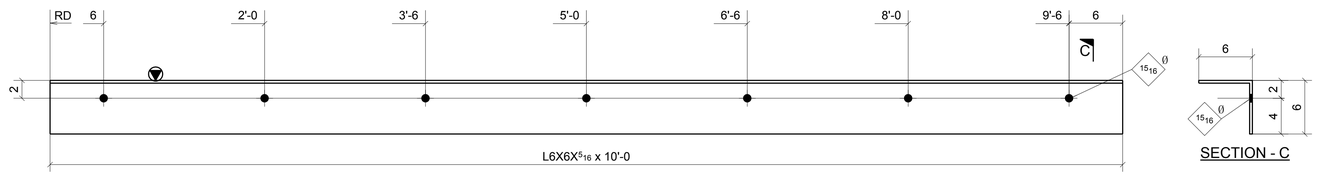
ONE - SUPPORT ANGLE ~ 283A

(REF: E2A)



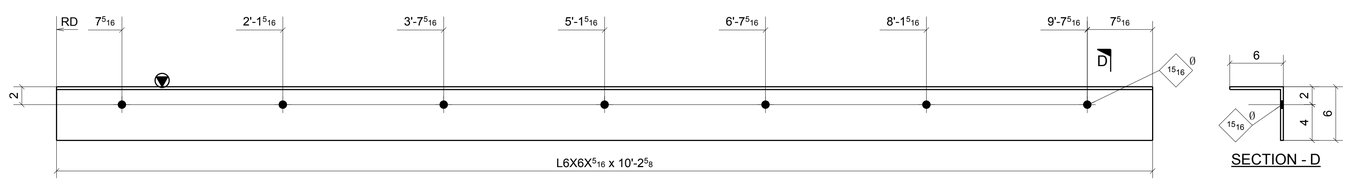
ONE - SUPPORT ANGLE ~ 283B

(REF: E2A)



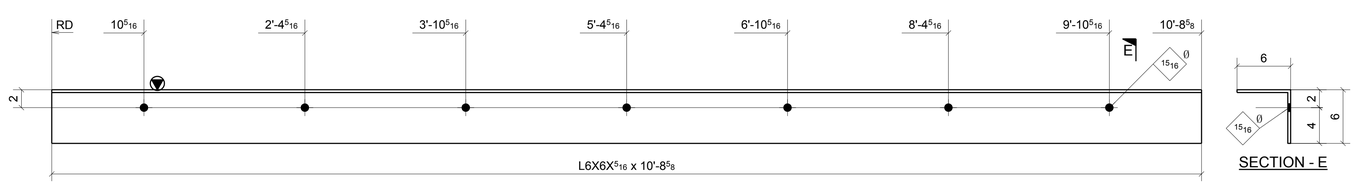
2 - SUPPORT ANGLES ~ 283C

(REF: E2A)



ONE - SUPPORT ANGLE ~ 283D

(REF: E2A)



ONE - SUPPORT ANGLE ~ 283F

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	283A	L8X4X7/16	7'-5 3/8"	A36	
1	283B	L8X4X7/16	2'-0"	A36	
2	283C	L6X6X5/16	10'-0"	A36	
1	283D	L6X6X5/16	10'-2 5/8"	A36	
1	283F	L6X6X5/16	10'-8 5/8"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL		05/30/16
Sequence:	2	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

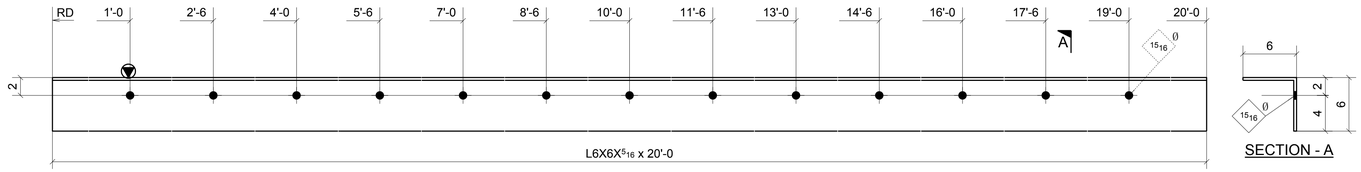
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

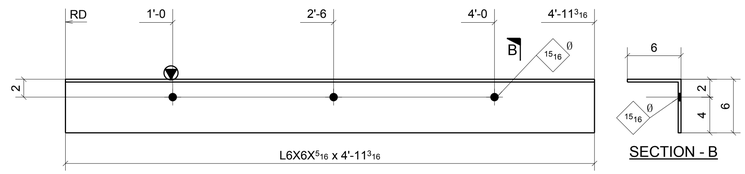
Dwn: TLI Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: DWG#: 283



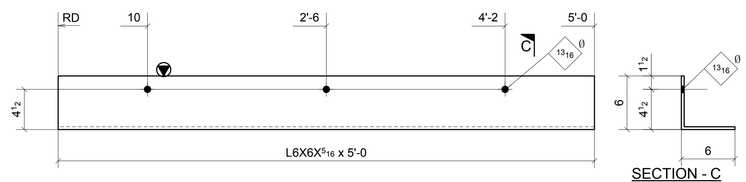
ONE - SUPPORT ANGLE ~ 284A

(REF: E2A)



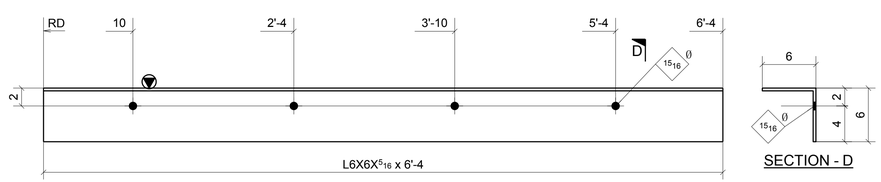
ONE - SUPPORT ANGLE ~ 284B

(REF: E2A)



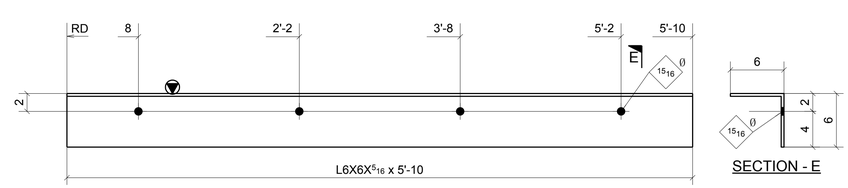
ONE - SUPPORT ANGLE ~ 284C

(REF: E2A)



ONE - SUPPORT ANGLE ~ 284D

(REF: E2A)



ONE - SUPPORT ANGLE ~ 284F

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	284A	L6X6X5/16	20'-0"	A36	
1	284B	L6X6X5/16	4'-11 3/16"	A36	
1	284C	L6X6X5/16	5'-0"	A36	
1	284D	L6X6X5/16	6'-4"	A36	
1	284F	L6X6X5/16	5'-10"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	05/30/16

Sequence: 2 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

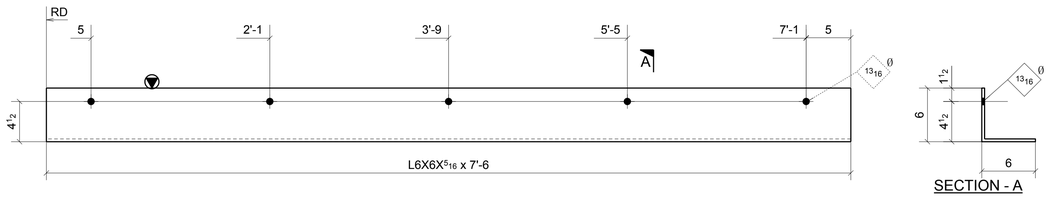
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

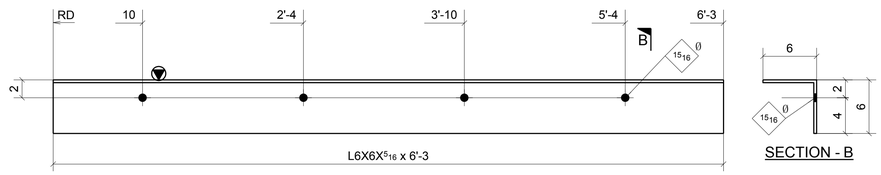
Dwn: TLI Date: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 284



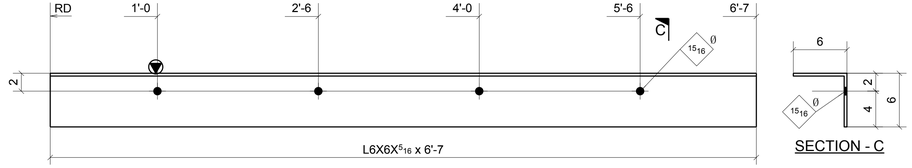
3 - SUPPORT ANGLES ~ 285A

(REF: E2A)



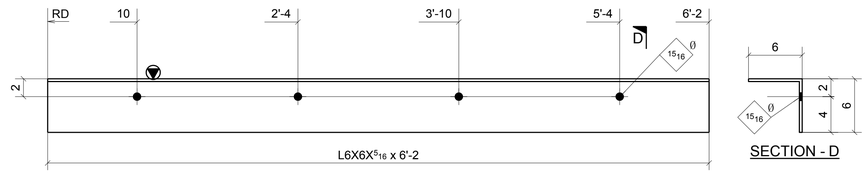
2 - SUPPORT ANGLES ~ 285B

(REF: E2A)



ONE - SUPPORT ANGLE ~ 285C

(REF: E2A)



ONE - SUPPORT ANGLE ~ 285D

(REF: E2A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	285A	L6X6X5/16	7'-6"	A36	
2	285B	L6X6X5/16	6'-3"	A36	
1	285C	L6X6X5/16	6'-7"	A36	
1	285D	L6X6X5/16	6'-2"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A FOR APPROVAL 05/30/16

Sequence: 2 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: 05/30/2016 Ckd: LJ Date: 05/30/2016

Job No. A16013 BAT: _____ DWG#: 285

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

051200-015
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

051200
SPECIFICATION SECTION / PARAGRAPH

Atlas Iron Works
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 THE FABRICATOR TO COORDINATE DESIGN CALCULATIONS WITH 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

6/2/16
DATE

To be completed by Reviewer

05 1200-015
CANNON DESIGN SUBMITTAL NUMBER

6/3/16
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

ADD'L COMMENTS ON SHEET E2C

( ) See attached sheet(s) for additional comments

6/27/16

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: 06/23/2016

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0071

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/02/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Webster Seq #2 Steel For Approval

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		052100-015	1		06/02/2016	Webster Seq #2 Steel For Approval	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates