

**TRI-LAKES JOINT MUNICIPAL UTILITY COMMISSION,
MISSOURI PURCHASING DEPARTMENT**

**REQUEST FOR BID (RFB) FOR: 2847-23
EXTERIOR SILO/TANK RENOVATION 2026**

**Stephanie Crawford, Bid Coordinator
Tri-Lakes Biosolids JMUC, Purchasing Office
616 West Pacific St
Branson, MO 65616**

**Date Issued: March 5, 2026
Buyer's Email: scrawford@bransonmo.gov
Telephone: (417) 243-2731 Ext.7103
DUE DATE: March 26, 2026, at 2:00 p.m.**

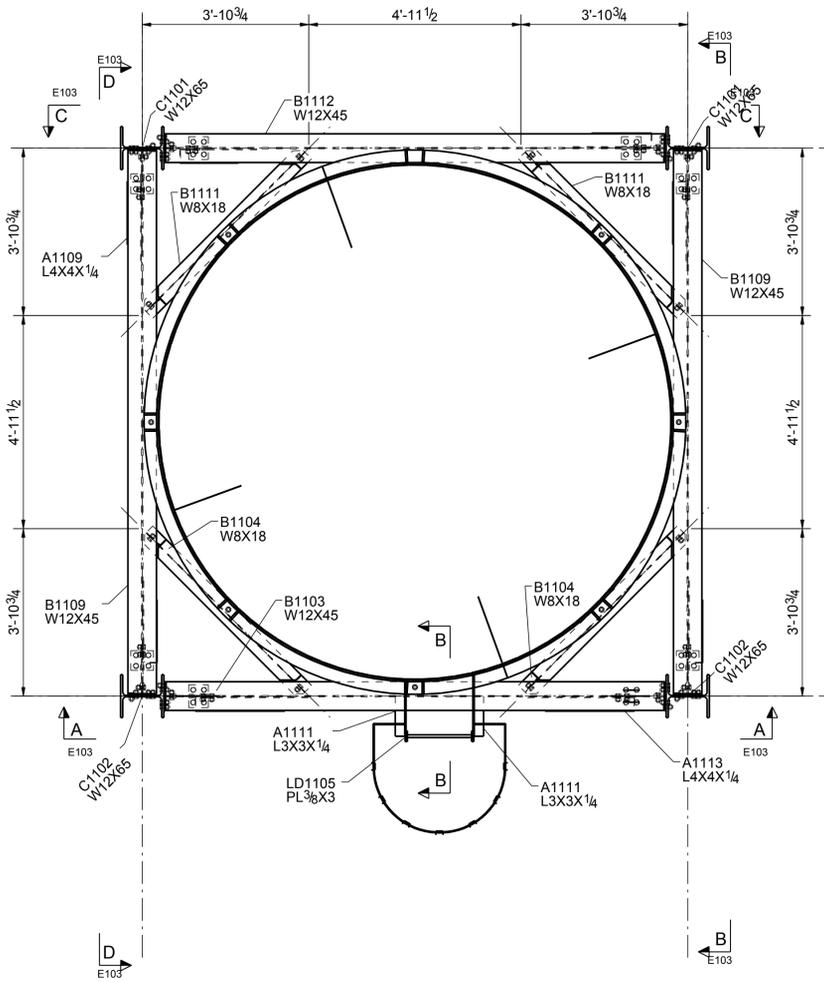
Addendum No. 1

The materials included with this Addendum consist of project plans and related reference information intended to provide additional clarification regarding the scope and layout of the project. These plans are provided for informational and coordination purposes in connection with the solicitation. Except as specifically modified by this Addendum, all other terms, conditions, specifications, and requirements of the original bid documents remain unchanged and in full force.

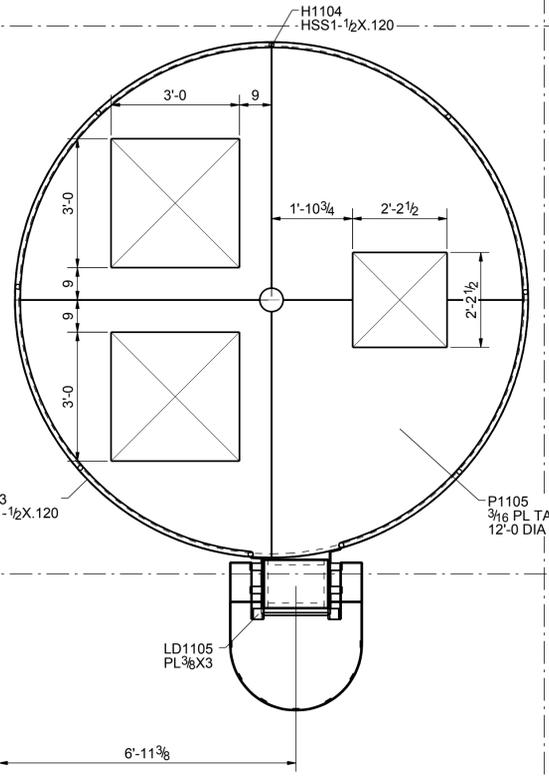
**ALL BIDDERS ARE REQUESTED TO SIGN THE ACKNOWLEDGMENT BELOW AND
INCLUDE WITH BIDS TO CONFIRM RECEIPT OF ADDENDUM #1**

**Signature
Acknowledged by Bidder**

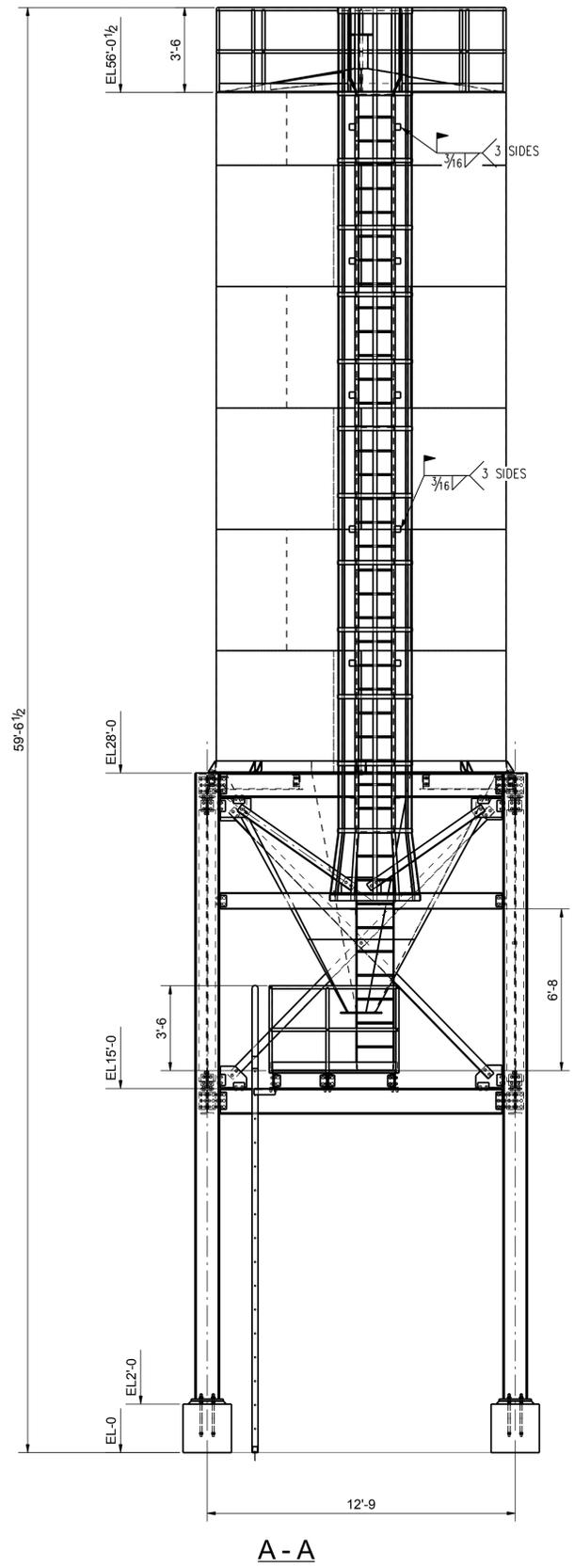
End of Addendum No. 1



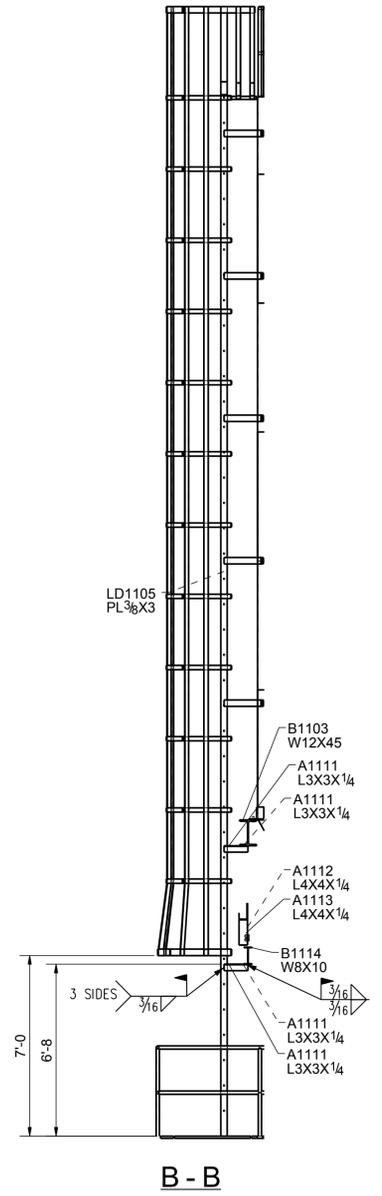
PLAN AT 27'-0



PLAN AT 57'-0 1/2



A-A



B-B

BOLTED CONNECTIONS: BOLT TYPE 1 SNUG TIGHT UNO

NOTES
 MATERIALS WILL NOT BE SCHEDULED FOR FABRICATION UNTIL APPROVAL IS RECEIVED.
 AISC CODE OF STANDARD PRACTICE, AMERICAN INSTITUTE OF STEEL CONSTRUCTION SECTION 5, PAGE 239 PARAGRAPH 7.12
 7.12 Correction of errors
 Normal erection operations include the correction of minor misfits by moderate amounts of reaming, chipping or cutting, and the drawings of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are reported immediately to the owner and the fabricator by the erector, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others.
 Unless this procedure is followed no back charges will be accepted.
 This drawing was prepared by and for the exclusive use of Doing Steel, Inc. The distribution or reproduction of this drawing or the construction of the product shown in this drawing by any person other than Doing Steel, Inc. is absolutely unauthorized and prohibited.

PAIN	(Unless Noted)	ISSUE	DATE
CLEAN	(Unless Noted)	APPROVAL	A: 03/04/2015
BOLTS	A325 (U.N.O.)	FABRICATION	B: 03/24/2015 C: D:
HOLES	(Unless Noted)	JOB USE	Ø:



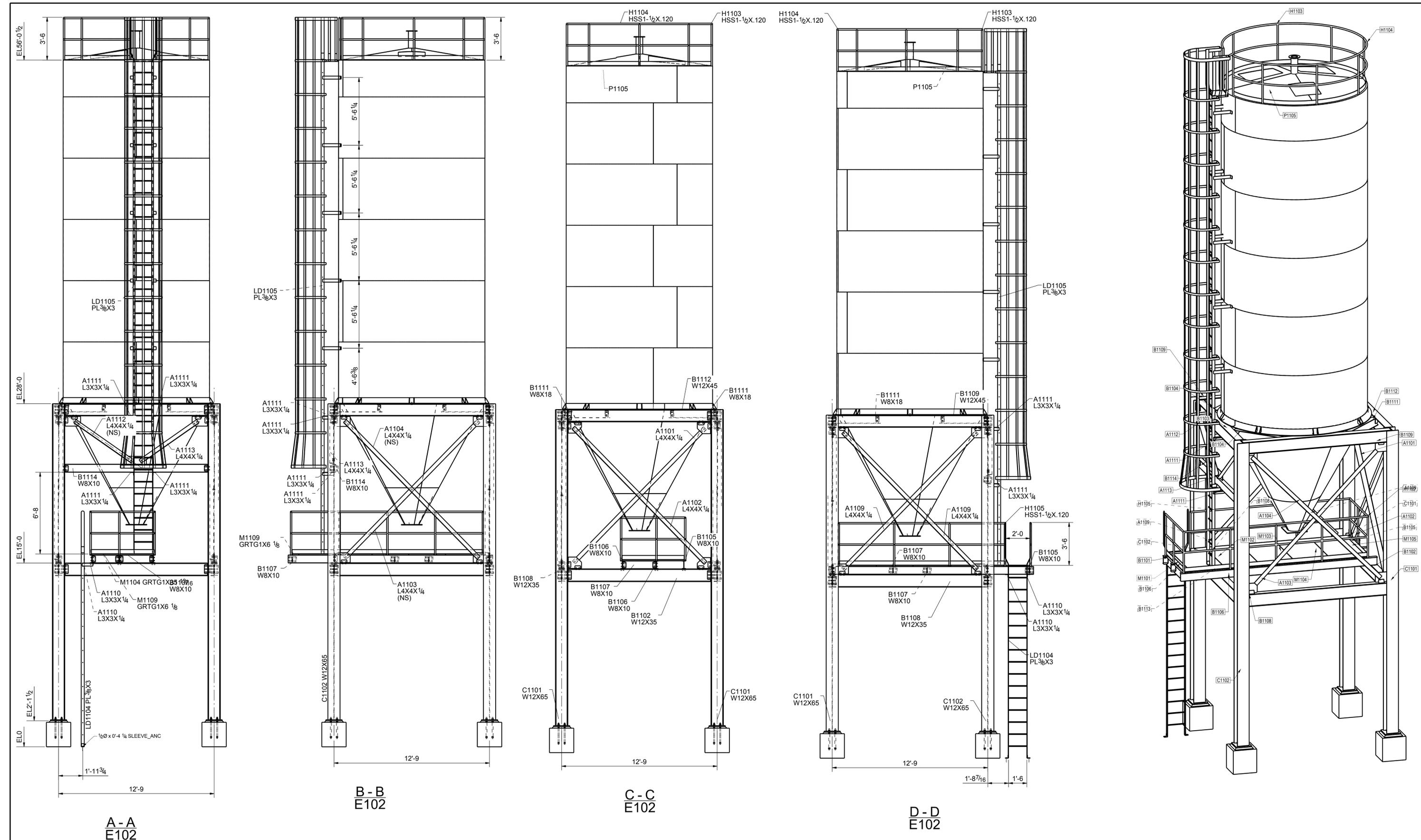
DOING STEEL
 2125 N. Golden, Springfield, MO 65803
 (417) 866-5020 FAX (417) 866-7619
 www.doingsteel.com

DATE	NO.	DESCRIPTION	BY
3/24/2015	1	For Approval	
3/4/2015	2	For Approval	

DATE	NO.	DESCRIPTION	BY
3/24/2015	1	For Approval	
3/4/2015	2	For Approval	

JOB	TRI LAKES BIOSOLIDS SILO	WORK ORDER	4146
CUSTOMER	CARSON-MITCHELL, INC.	LOCATION	BRANSON, MO
ARCH - ENGR	CARSON-MITCHELL, INC.	DESCRIPTION	

SHEET NO.	E102
REFERENCE:	



NOTES
 MATERIALS WILL NOT BE SCHEDULED FOR FABRICATION UNTIL APPROVAL IS RECEIVED.
 AISC CODE OF STANDARD PRACTICE, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 SECTION 5, PAGE 239 PARAGRAPH 7.12
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PAIN	(Unless Noted)	ISSUE	DATE
CLEAN	(Unless Noted)	APPROVAL	A: 03/04/2015
BOLTS	A325 (U.N.O.)	B: 03/24/2015	C: FABRICATION
HOLES	(Unless Noted)	JOB USE	0:



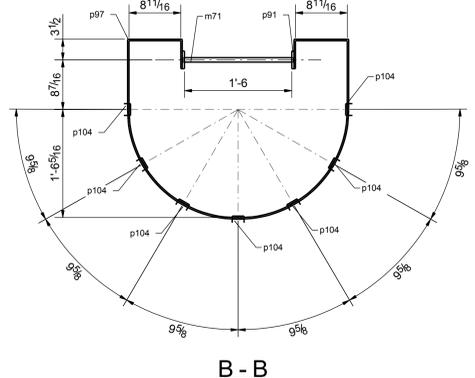
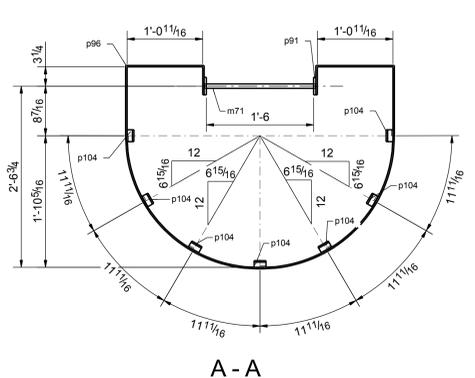
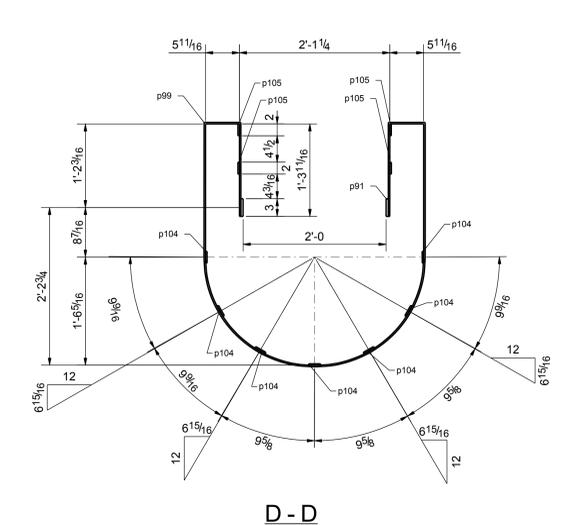
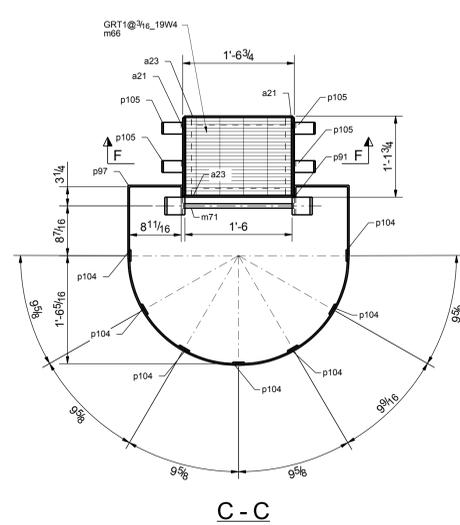
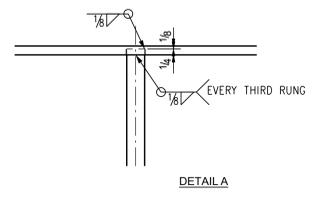
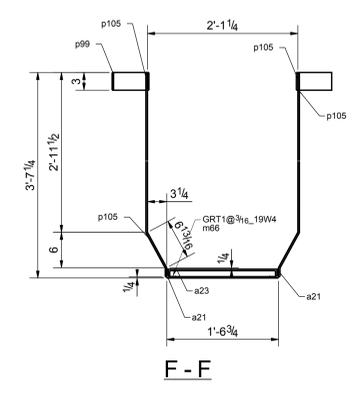
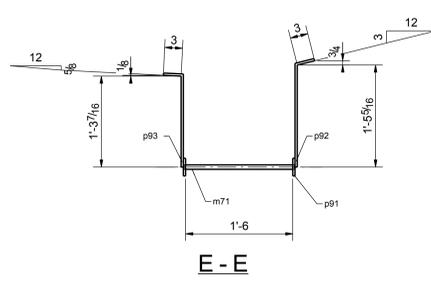
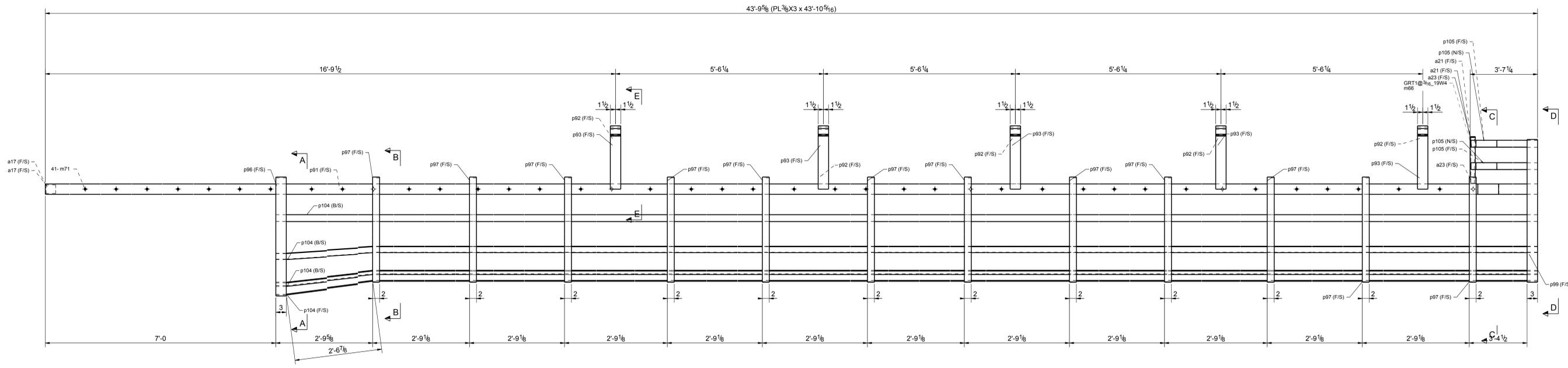
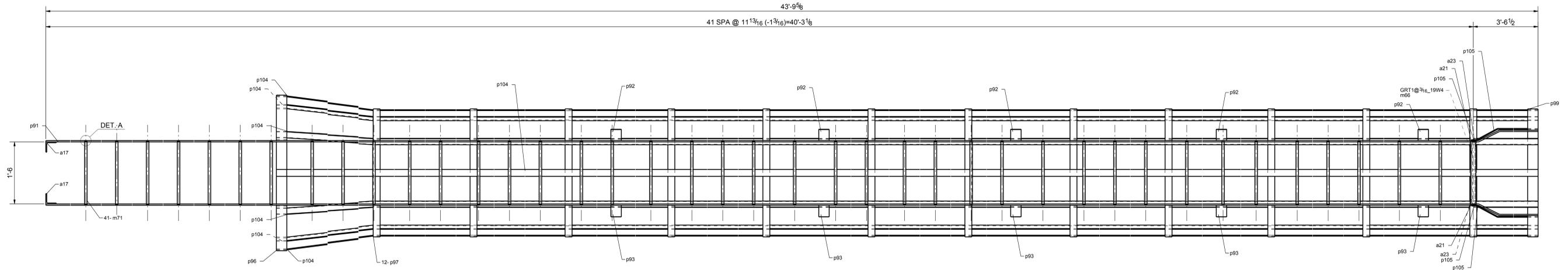
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 2125 N. Golden, Springfield, MO 65803
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 www.doingsteel.com

DATE	NO.	DESCRIPTION	BY
3/24/2015	1	For Approval	

DATE	NO.	DESCRIPTION	BY
3/24/2015	1	For Approval	

JOB	TRI LAKES BIOSOLIDS SILO	WORK ORDER	4146
CUSTOMER	CARSON-MITCHELL, INC.	SHEET NO.	E103
LOCATION	BRANSON, MO	REFERENCE:	
ARCH - ENGR	CARSON-MITCHELL, INC.		

BOLTED CONNECTIONS: BOLT TYPE 1 SNUG TIGHT UNO



BILL OF MATERIAL

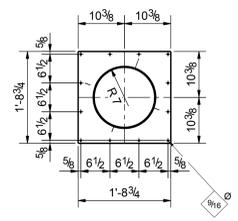
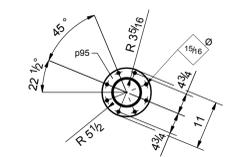
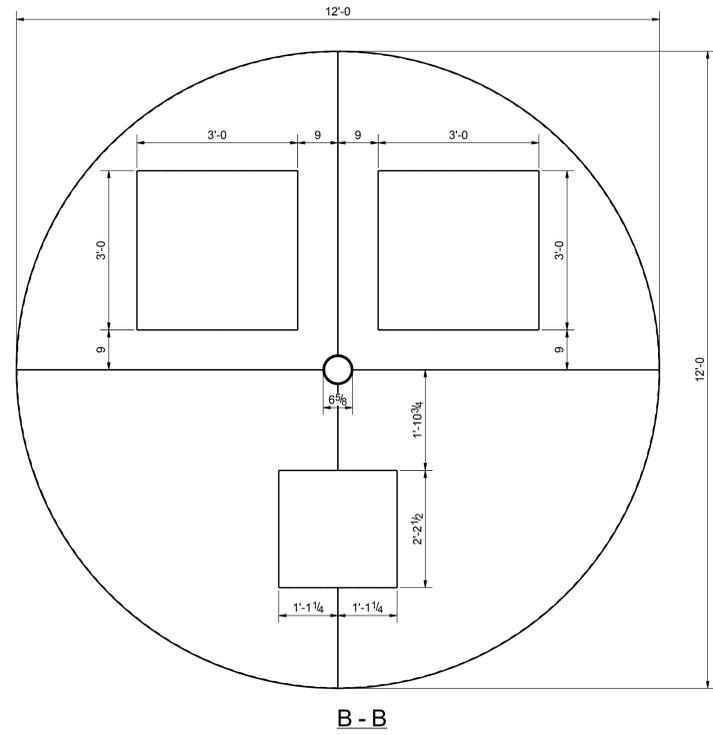
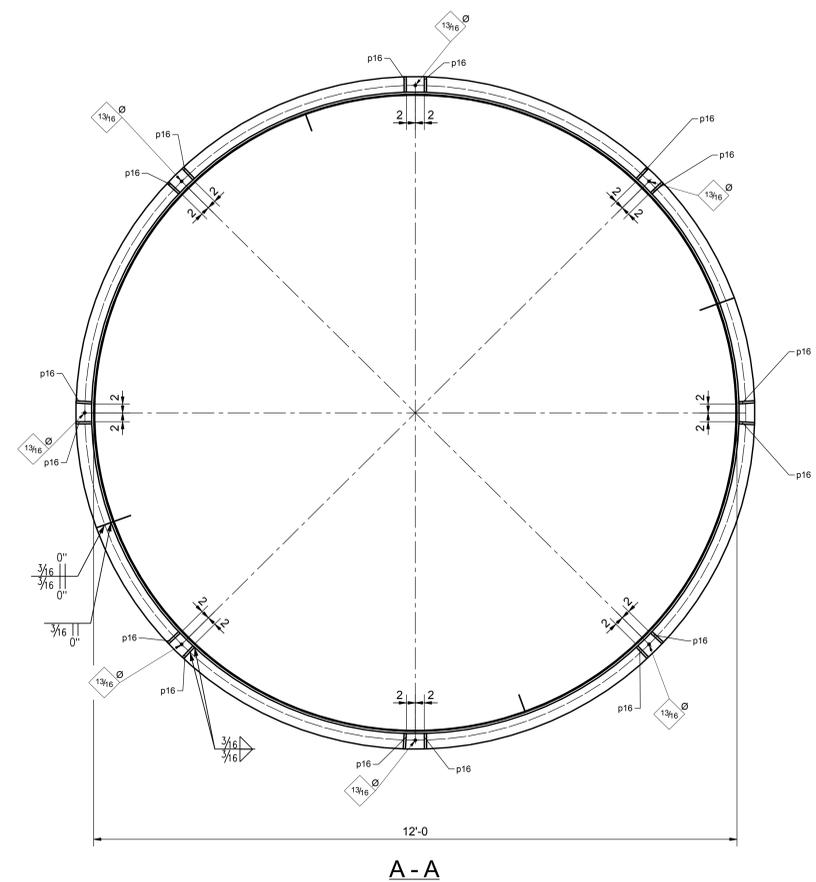
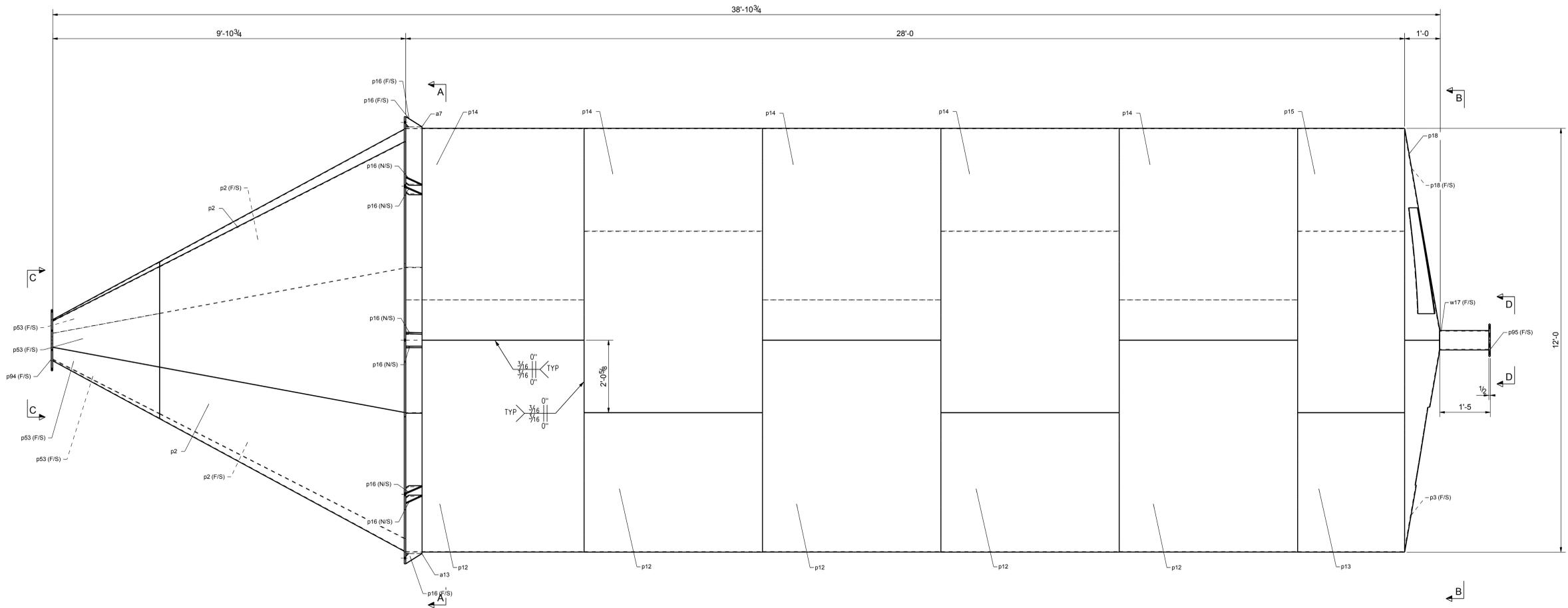
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	LD1105	LADDER					
1	1		PL3/8X3	43'-10 5/16"	168	SQ2		A36
2	2	a17	L3X3X1/4	0'-2 1/2"	2		GRAY	A36
2	2	a21	L1-1/2X1-1/2X1/4	1'-1 1/4"	5		GRAY	A36
2	2	a23	L1-1/2X1-1/2X1/4	1'-6 1/4"	7		GRAY	A36
1	1	m66	GRT1@3/16_19W4	BOI	0		GRAY	Mill Finish
41	41	m71	ROD3/4	1'-6 1/2"	86			A36
1	1	p91	PL3/8X3	43'-10 5/16"	168			A36
5	5	p92	PL3/8X3	1'-8 5/16"	33		GRAY	A36
5	5	p93	PL3/8X3	1'-6 7/16"	30		GRAY	A36
1	1	p96	PL1/4X3	15'-7 1/2"	28			A36
12	12	p97	PL1/4X2	13'-1 13/16"	186			A36
1	1	p99	PL1/4X3	16'-0 1/2"	31			A36
7	7	p104	PL1/4X2	36'-9 7/8"	439			A36
4	4	p105	PL1/4X2	3'-7 13/16"	25		GRAY	A36

ONE - LADDER - LD1105

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

4/7/2015	For Approval	
DATE	NO.	DESCRIPTION
DESCRIPTION LADDER		DRAWN BY JL
CHECKED BY		JOB No. 4146
BY		DRG No. LD1105

GRID LOCATION BOTTOM ELEVATION
✓ 15'-8 7/8"



BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	P1105	TANK			GRAY		
1	1		ESPD144X144X4 1/2X4 1/	0'-11 13/16"	197	SQ-1BEV-1		A36
1	1	a7	L6X4X1/2	18'-10 3/8"	305	GRAY		A36
1	1	a13	L6X4X1/2	18'-10 3/8"	305	GRAY		A36
4	4	p2	ESPD144X144X14X14X3/16	6'-10 13/16"	1551	GRAY		A36
1	1	p3	ESPD144X144X4 1/2X4 1/	0'-11 13/16"	197	PL 3/16	GRAY	A36
5	5	p12	PL3/16X60	19'-11 15/16"	3821	PL 3/16	GRAY	A36
1	1	p13	PL3/16X36	19'-11 15/16"	458	GRAY		A36
5	5	p14	PL3/16X60	17'-8 3/8"	3381	GRAY		A36
1	1	p15	PL3/16X36	17'-8 3/8"	406	GRAY		A36
16	16	p16	PL1/2X3 1/2	0'-5 1/2"	21	GRAY		A36
2	2	p18	ESPD144X144X4 1/2X4 1/	0'-11 13/16"	292	GRAY		A36
4	4	p53	ESPD144X144X14X14X3/16	2'-11 15/16"	229	PL 3/16	GRAY	A36
1	1	p94	PL1/2X20 3/4	1'-8 3/4"	39	PL 3/16	GRAY	A36
1	1	p95	PL1/2X11	0'-11"	9	PL 3/16	GRAY	A36
1	1	w17	PIPE6SCH40	1'-4 1/2"	24	GRAY		A53
4	4		3/4"Ø A325N BOLT	0'-2"		Site		
3	3		3/4"Ø A325N BOLT	0'-2 1/4"		Site		

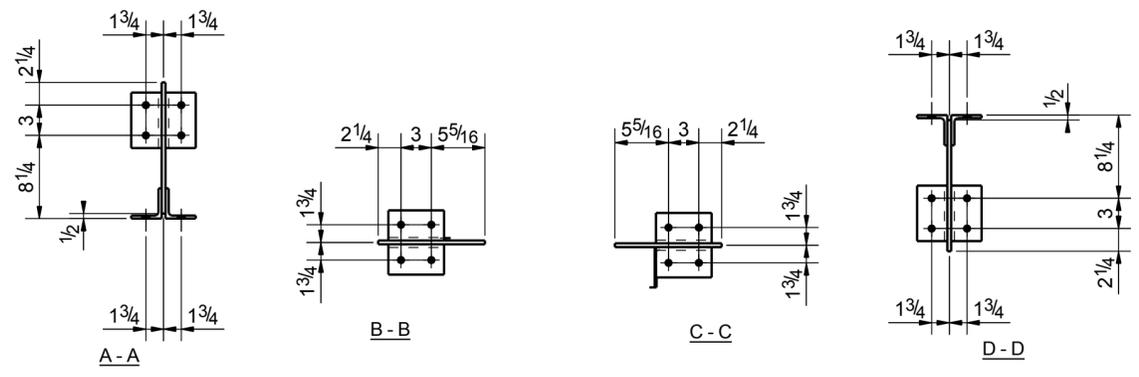
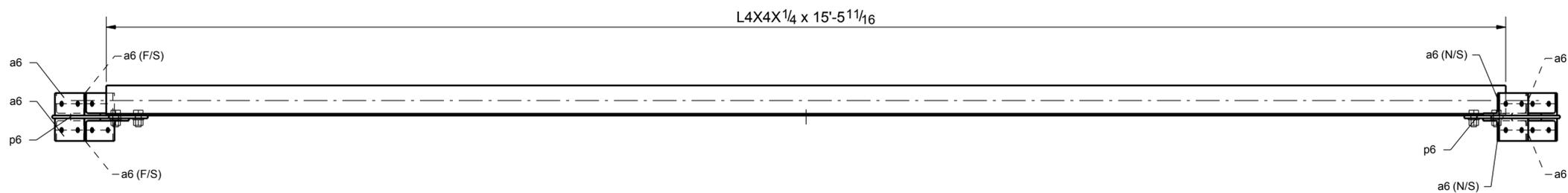
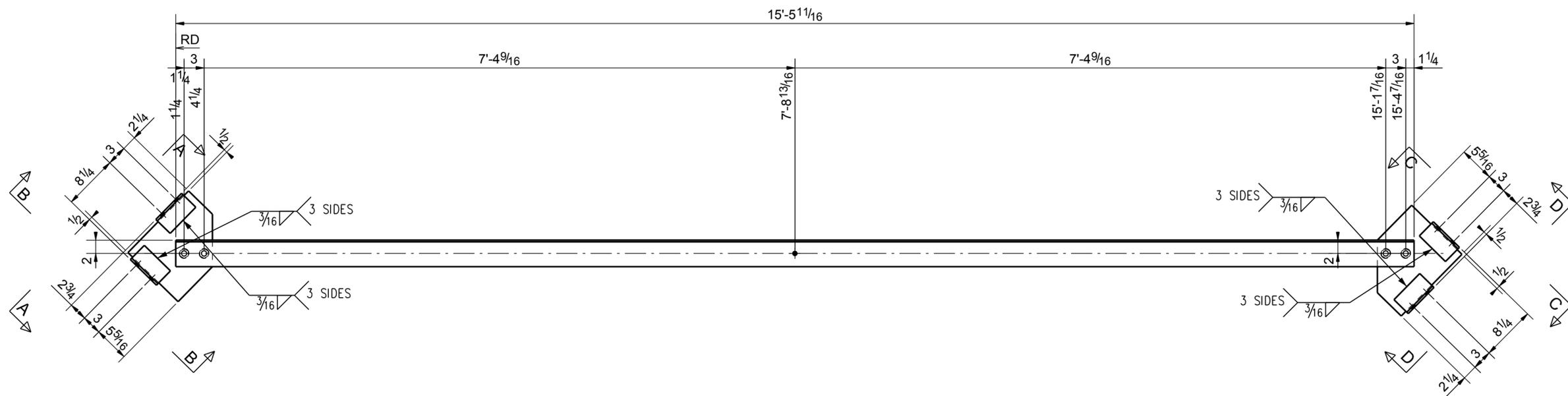
ONE - TANK - P1105

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
3/4/2015	For Approval	
DATE	NO.	DESCRIPTION

2125 N. Golden, Springfield, MO 65803
 (417) 866-9020 FAX (417) 866-7619
 www.doingsteel.com

DESCRIPTION	TANK	DRAWN BY	JL	JOB No.	4146
CHECKED BY				DRG No.	P1105



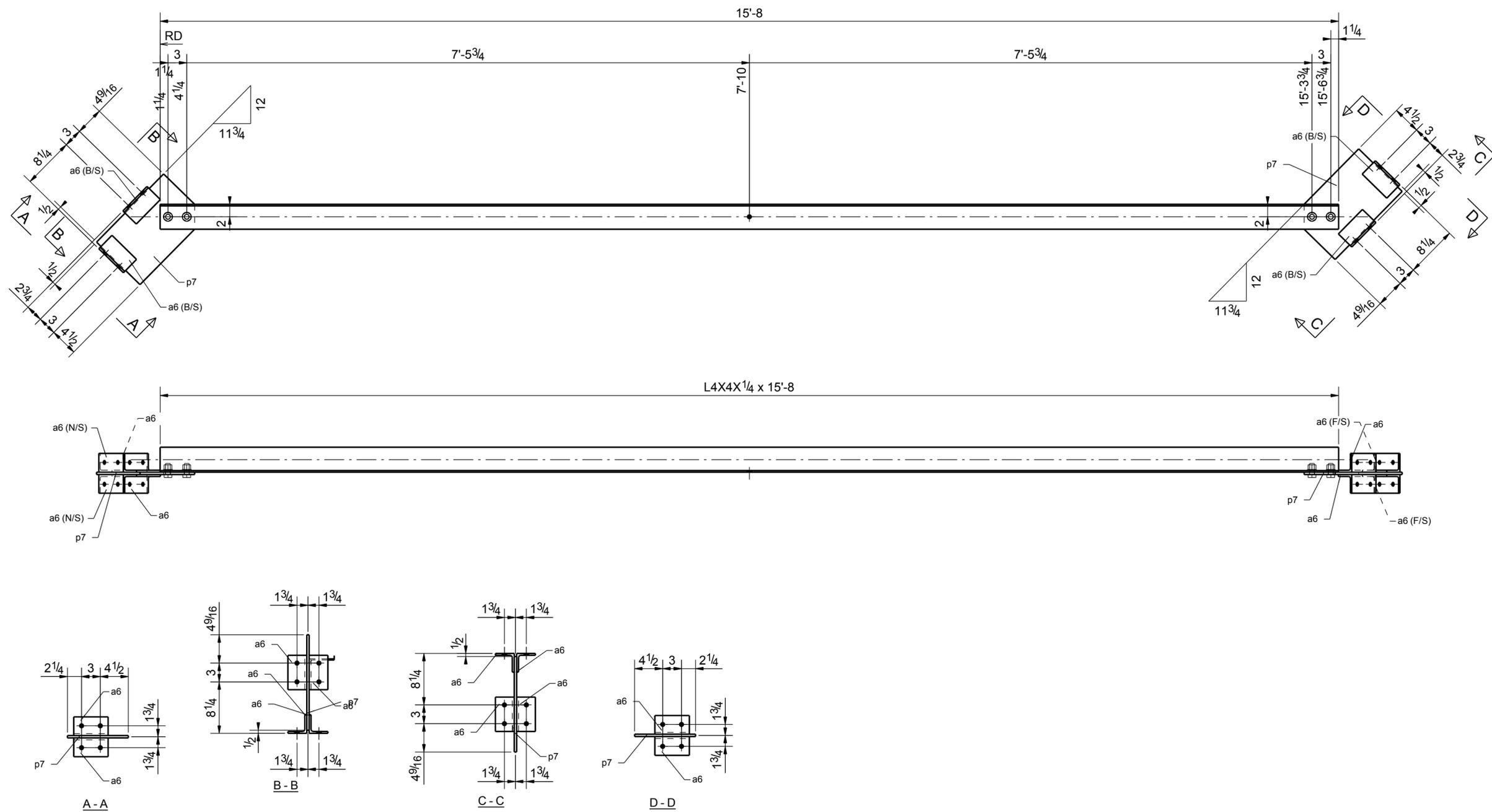
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	A1102	ANGLE			GRAY		
1	1		L4X4X1/4	15'-5 11/16"	102	SQ-2		A36
8	8	a6	L3X3X5/16	0'-5 1/2"	22	GRAY		A36
2	2	p6	PL3/8X10 9/16	1'-1"	26	GRAY		A36
4	4		3/4"Ø A325N BOLT	0'-1 3/4"	2	Workshop		
4	4		3/4"Ø A325N BOLT	0'-2"		Site		
12			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

ONE - ANGLE - A1102

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
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DATE	NO.	DESCRIPTION
		BRACE
DESCRIPTION	DRAWN BY	JOB No.
	JL	4146
CHECKED BY	DRG No.	A1102



BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	A1103	ANGLE			GRAY		
1	1		L4X4X1/4	15'-8"	103	SQ-2		A36
8	8	a6	L3X3X5/16	0'-5 1/2"	22	GRAY		A36
2	2	p7	PL3/8X9 3/4	1'-3 5/16"	31	GRAY		A36
4	4		3/4"Ø A325N BOLT	0'-1 3/4"	2	Workshop		
12	12		3/4"Ø A325N BOLT	0'-2"		Site		
4	4		3/4"Ø A325N BOLT	0'-2 1/4"		Site		

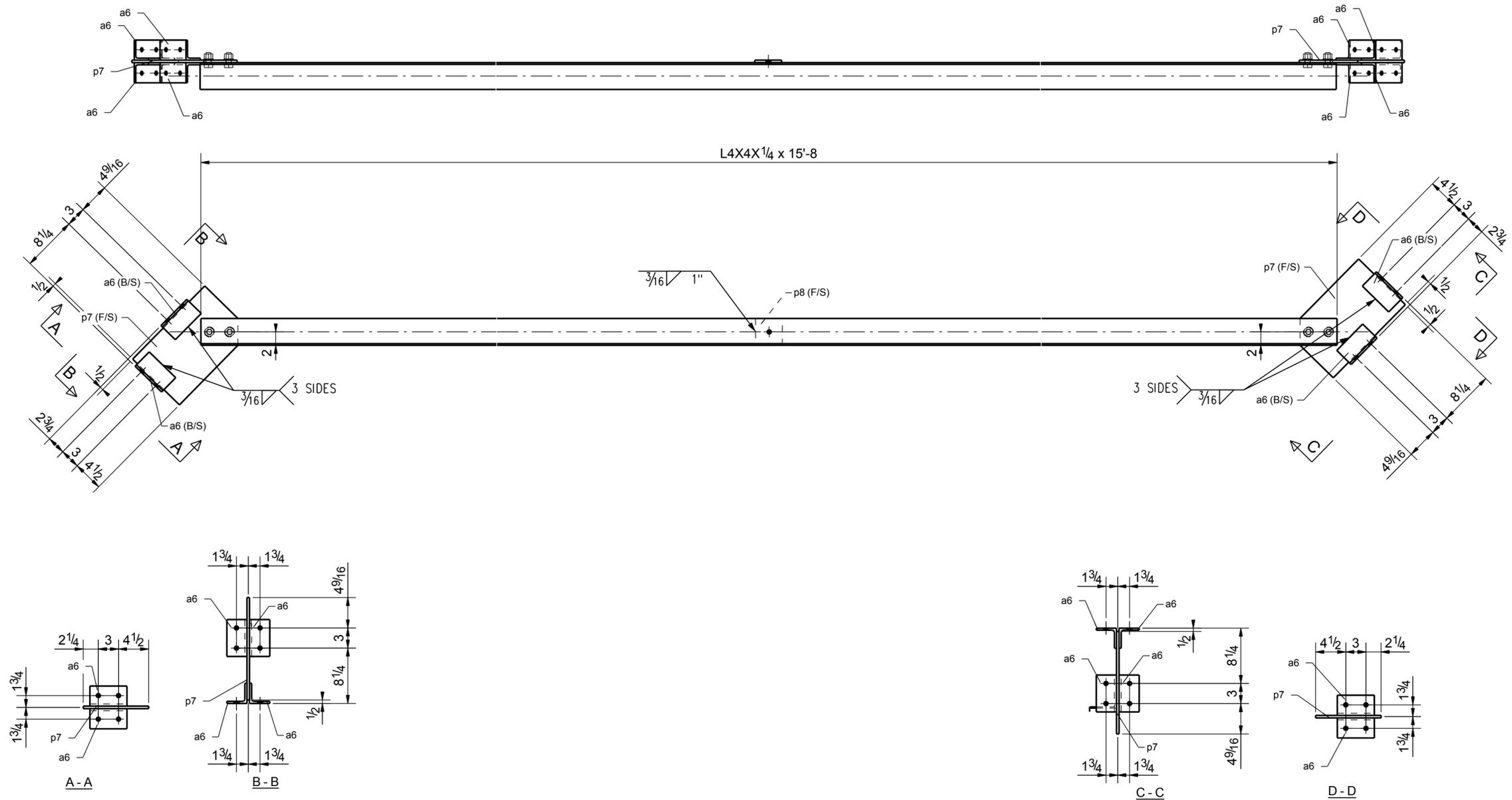
ONE - ANGLE - A1103

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
3/4/2015	For Approval	
DATE	NO.	DESCRIPTION
		BRACE

	DRAWN BY	JL	JOB No.	4146
	CHECKED BY		DRG No.	A1103

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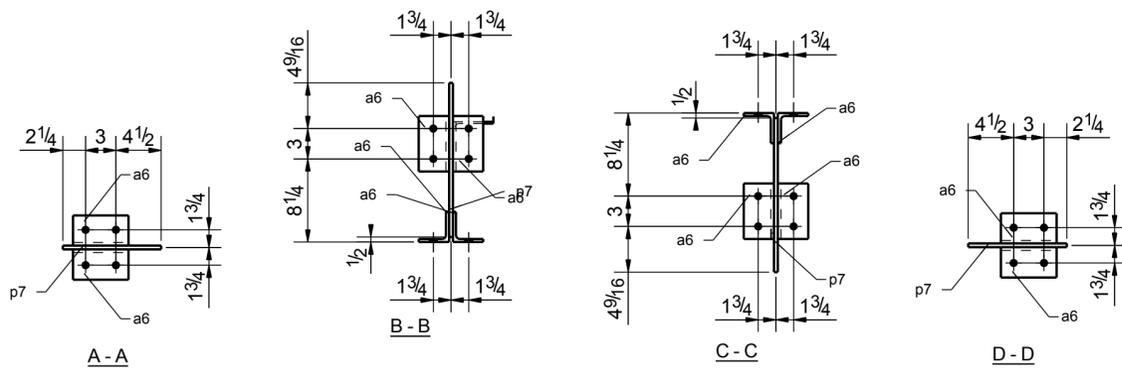
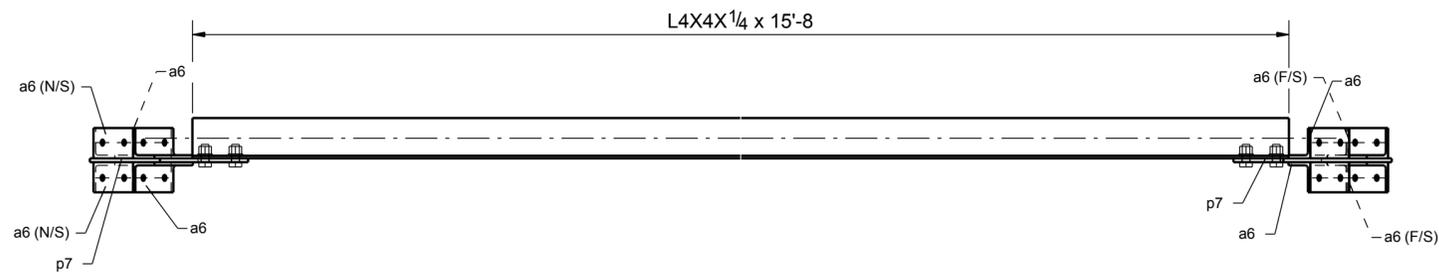
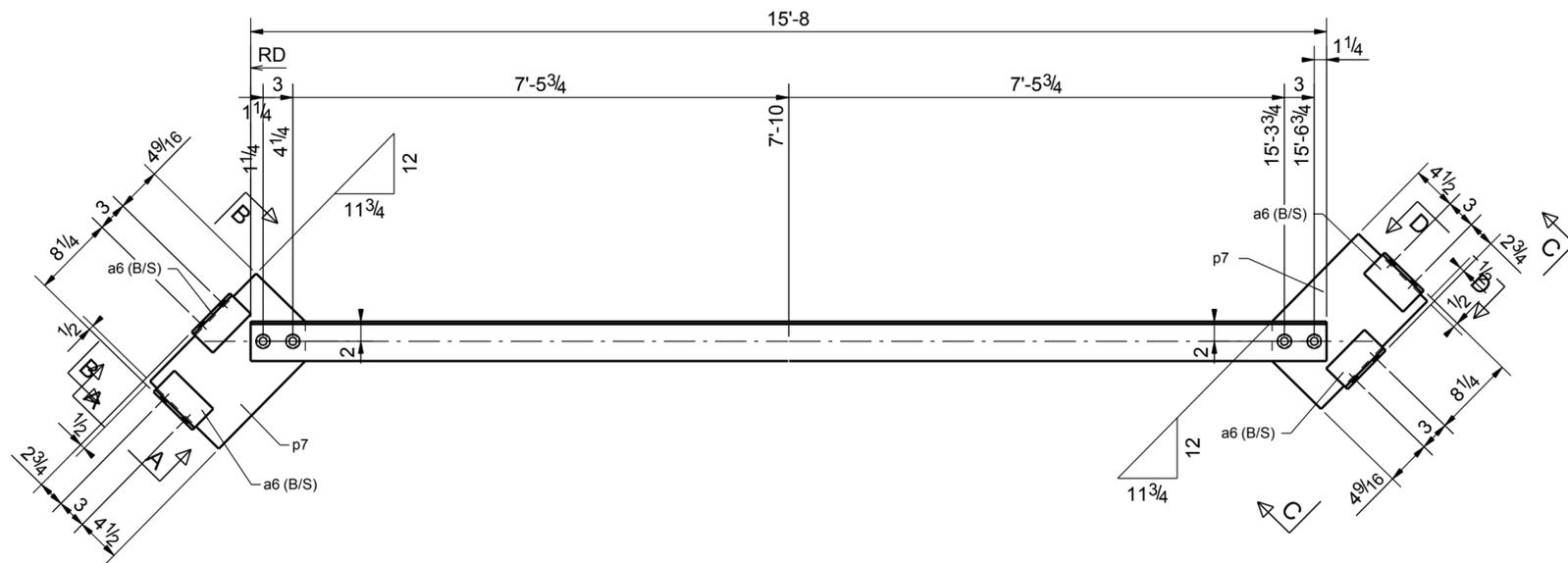
BILL OF MATERIAL

Qty Ea.	Qty Tot.	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	A1104	ANGLE			GRAY		
1	1		L4X4X1/4	15'-8"	103	SQ-2		A36
8	8	a6	L3X3X5/16	0'-5 1/2"	22	GRAY		A36
2	2	p7	PL3/8X9 3/4	1'-3 5/16"	31	GRAY		A36
1	1	p8	PL3/8X4	0'-4"	2	GRAY		A36
4	4		3/4"Ø A325N BOLT	0'-1 3/4"	2	Workshop		
13			3/4"Ø A325N BOLT	0'-2"		Site		
4			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

ONE - ANGLE - A1104

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
3/4/2015	For Approval	
DATE	NO.	DESCRIPTION
 		
DESCRIPTION	DRAWN BY	JOB No.
BRACE	JL	4146
	CHECKED BY	DRG No.
		A1104



BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	A1109	ANGLES			GRAY		
2	2		L4X4X1/4	15'-8"	207	SQ-2		A36
8	16	a6	L3X3X5/16	0'-5 1/2"	44	GRAY		A36
2	4	p7	PL3/8X9 3/4	1'-3 5/16"	62	GRAY		A36
4	8		3/4"Ø A325N BOLT	0'-1 3/4"	4	Workshop		
24			3/4"Ø A325N BOLT	0'-2"		Site		
8			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

2 - ANGLES - A1109

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

DATE	NO.	DESCRIPTION	BY
3/24/2015			

3/24/2015		For Approval	
DATE	NO.	DESCRIPTION	BY



AMERICAN INSTITUTE OF STEEL CONSTRUCTION

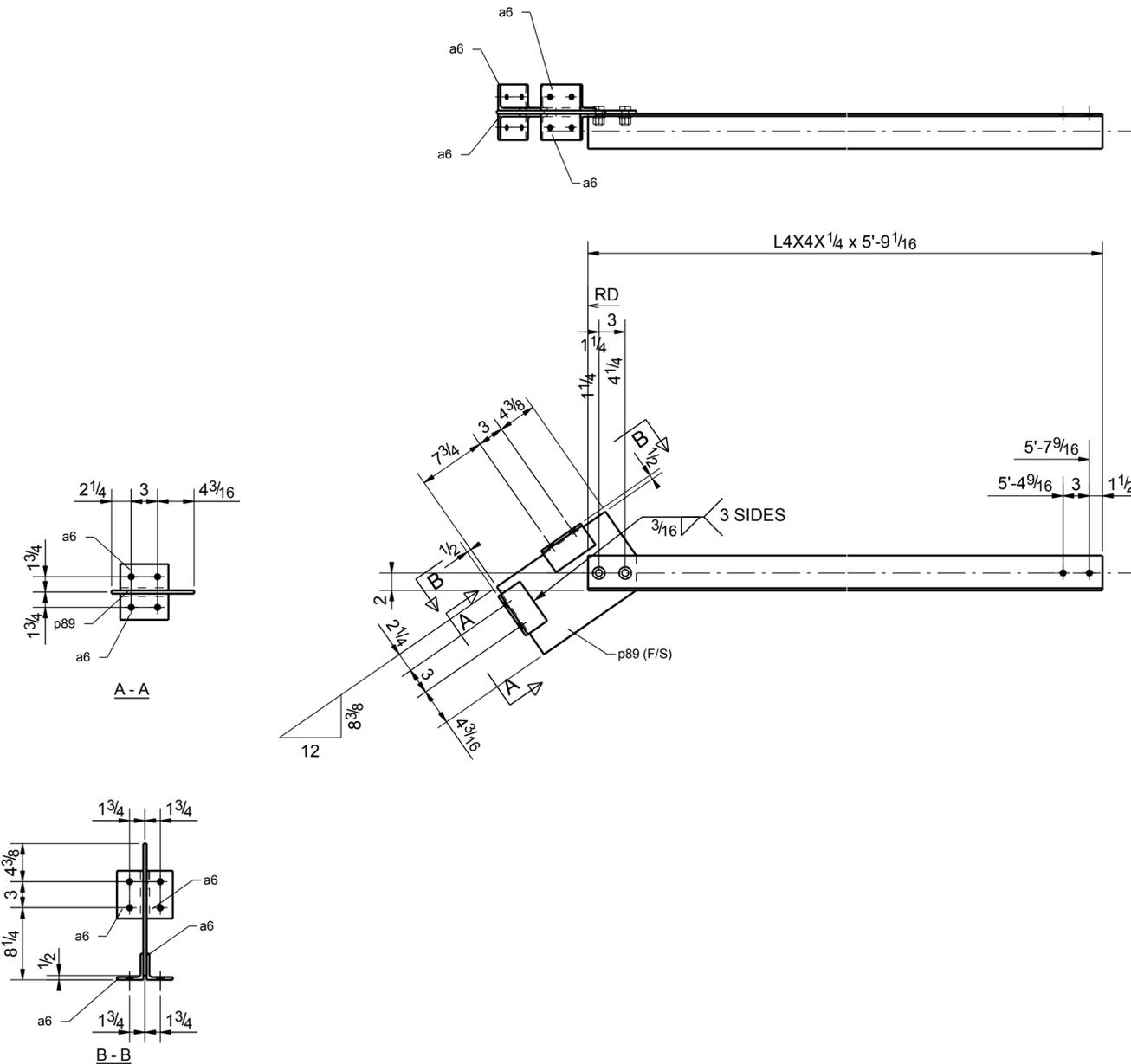


ASCF CERTIFIED FABRICATOR

DOING STEEL

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DESCRIPTION	DRAWN BY	JOB No.
BRACE	JL	4146
	CHECKED BY	DRG No.
		A1109



BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	A1112	ANGLE			GRAY		
1	1		L4X4X1/4	5'-9 1/16"	38	SQ-2		A36
4	4	a6	L3X3X5/16	0'-5 1/2"	11	GRAY		A36
1	1	p89	PL3/8X9 7/16	1'-3 1/8"	15	GRAY		A36
2	2		3/4"Ø A325N BOLT	0'-1 3/4"	1	Workshop		
8			3/4"Ø A325N BOLT	0'-2 1/4"		Site		
2			3/4"Ø A325N BOLT	0'-1 3/4"		Site		

ONE - ANGLE - A1112

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

DATE	NO.	DESCRIPTION	BY
4/7/2015		BRACE	

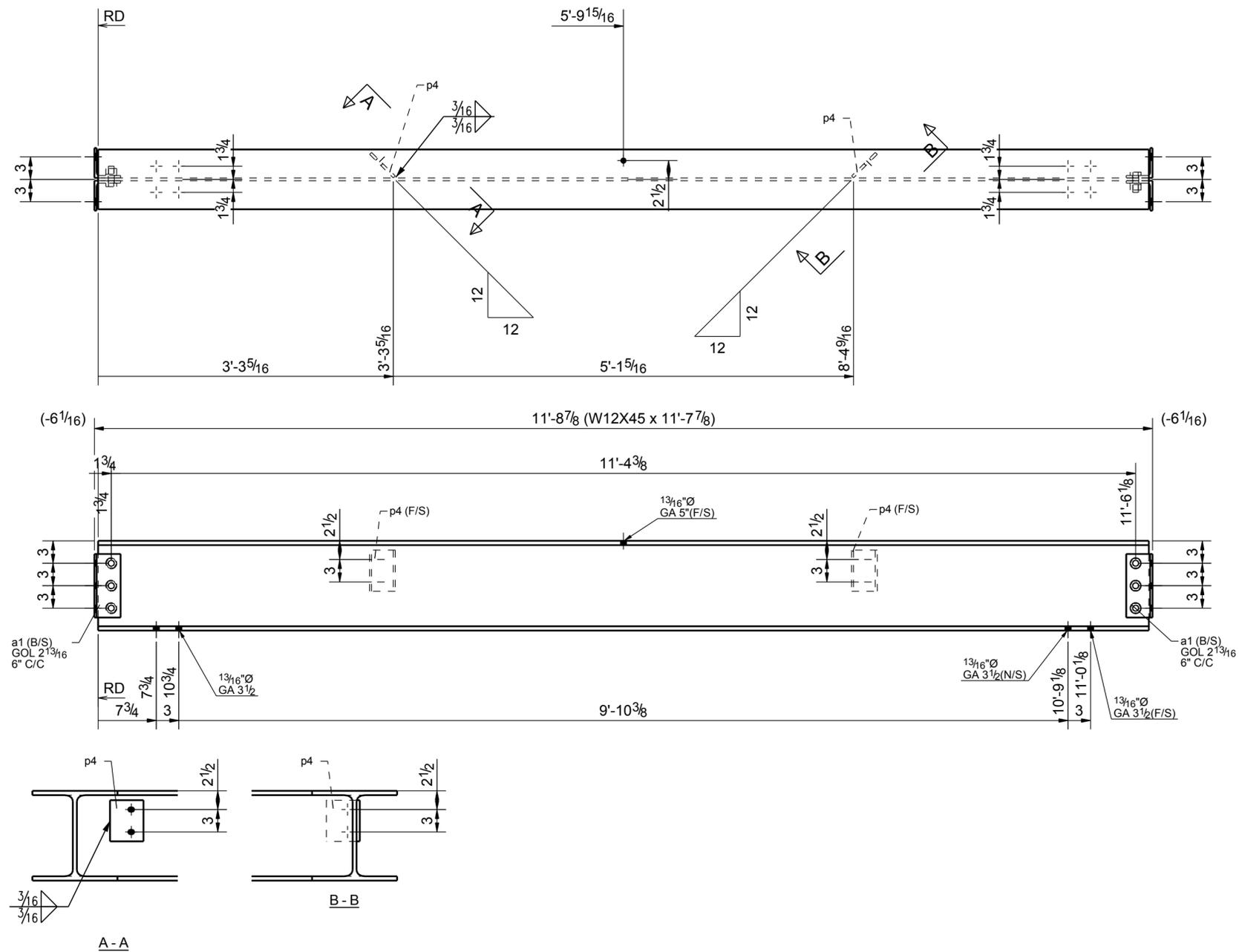
4/7/2015 For Approval

DATE NO. DESCRIPTION BY

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 2125 N. Golden, Springfield, MO 65803
 (417) 866-5020 FAX (417) 866-7619
 www.doingsteel.com

AISC **USC CERTIFIED FABRICATOR**

DESCRIPTION: BRACE
 DRAWN BY: JL
 CHECKED BY: JL
 JOB No.: 4146
 DRG No.: A1112



BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1103	BEAM			GRAY		
1	1		W12X45	11'-7 7/8"	520	SQ-2		A992
4	4	a1	L4X3-1/2X5/16	0'-8 1/2"	22	GRAY		A36
2	2	p4	PL3/8X5 1/2	0'-4 7/16"	5	GRAY		A36
6	6		3/4"Ø A325N BOLT	0'-2 1/4"	4	Workshop		
12			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

ONE - BEAM - B1103

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
3/4/2015	For Approval	
DATE	NO.	DESCRIPTION
		BEAM

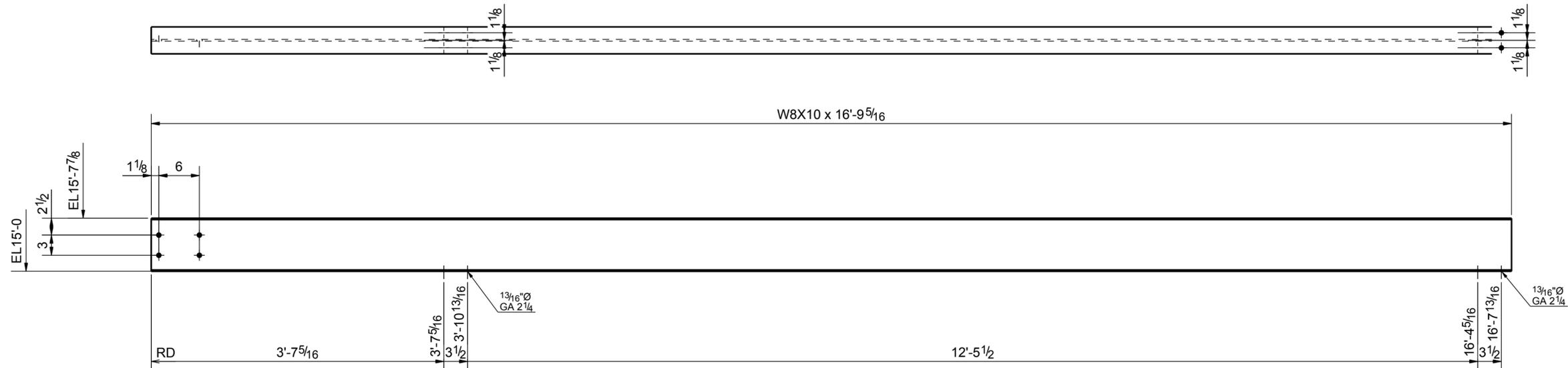
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DESCRIPTION	DRAWN BY	JOB No.
BEAM	JL	4146
	CHECKED BY	DRG No.
		B1103



ONE - BEAM - B1105

3/24/2015	△	For Approval	
3/4/2015	△	For Approval	
DATE	NO.	DESCRIPTION	BY



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AISC CERTIFIED FABRICATOR

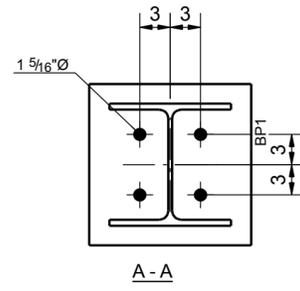
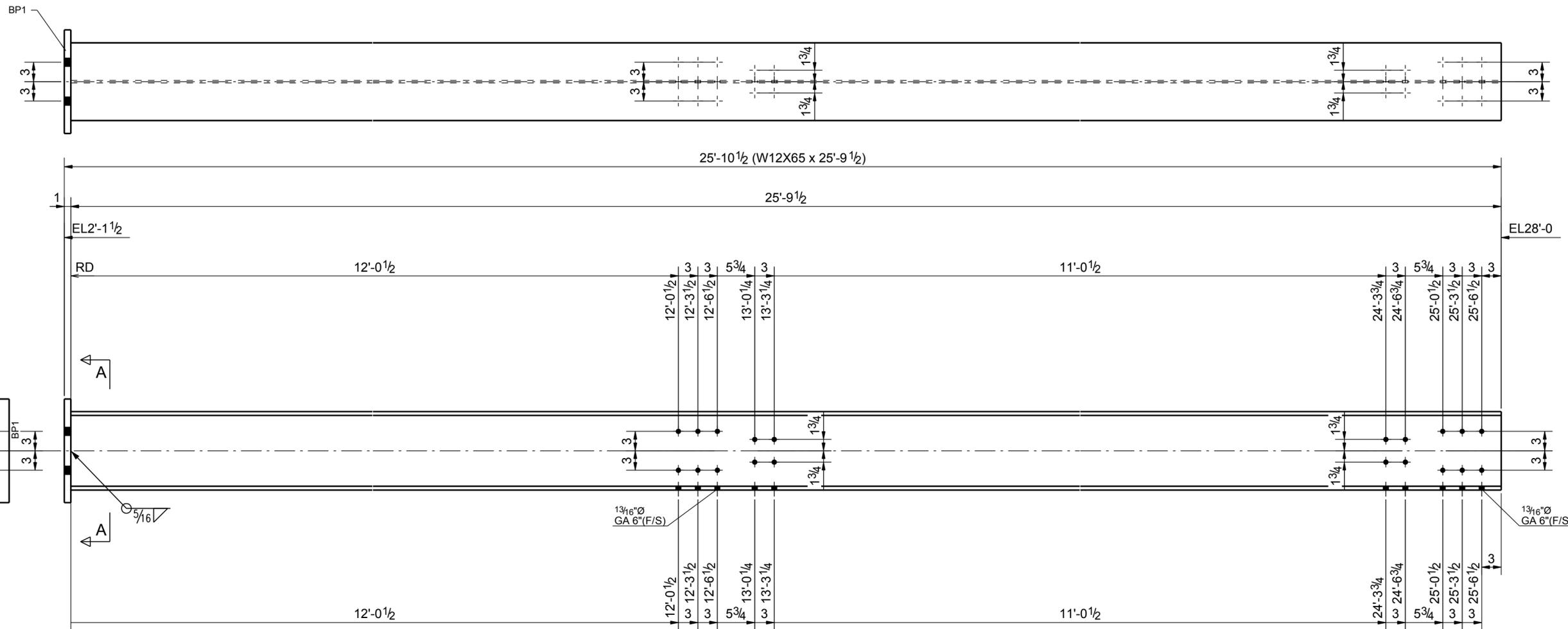
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DESCRIPTION	DRAWN BY	JOB No.
BEAM	JL	4146
	CHECKED BY	DRG No.
		B1105

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
1	1	B1105	BEAM			GRAY		
1	1		W8X10	16'-9 5/16"	169	SQ.2		A992
8			3/4"Ø A325N BOLT	0'-2"		Site		



2 - COLUMNS - C1101

GRID LOCATION	BOTTOM ELEVATION
/	2'-1 1/2
/	2'-1 1/2

BILL OF MATERIAL						
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks
	2	C1101	COLUMNS			GRAY
2	2		W12X65	25'-9 1/2"	3353	SQ-1/BEV-1
1	2	BP1	PL1X16	1'-4"	145	GRAY

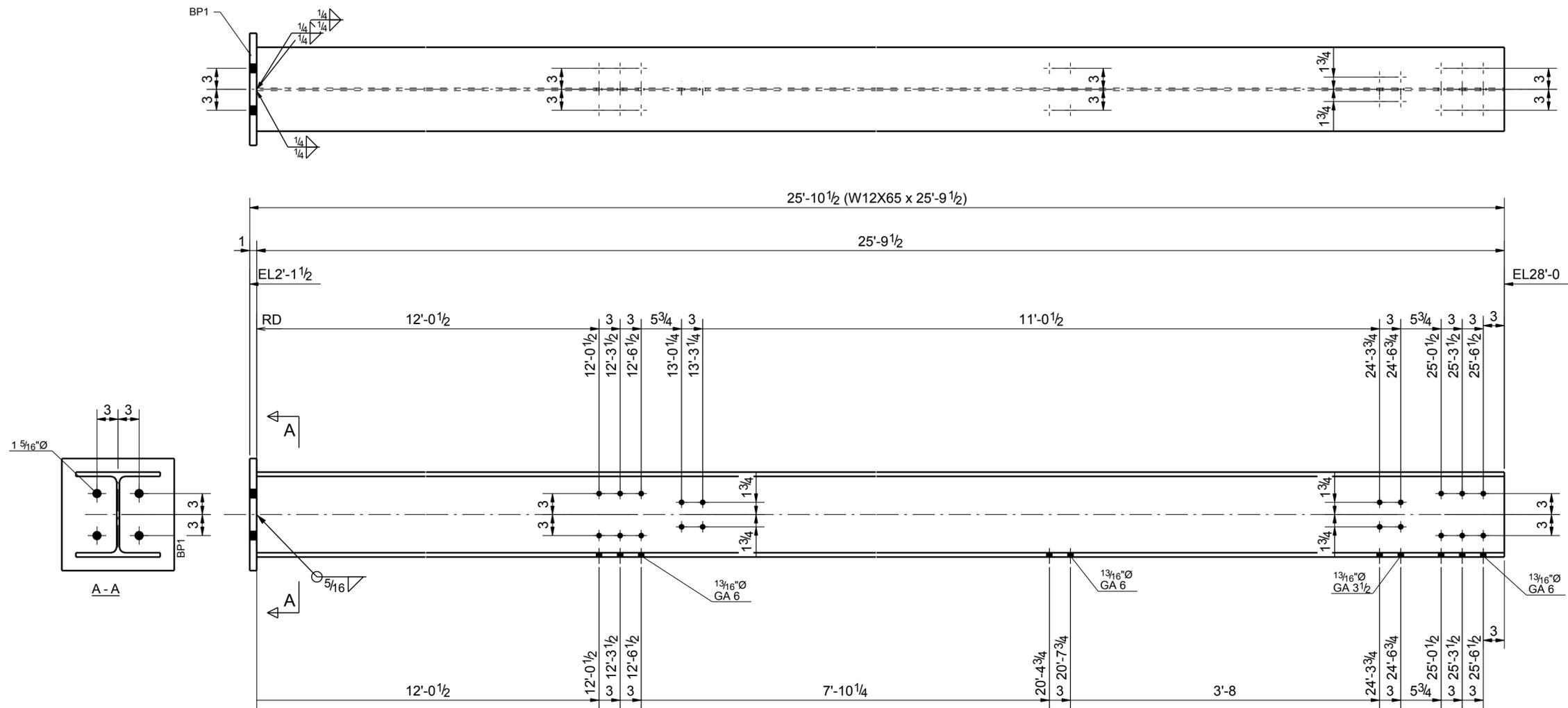
DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	For Approval	
3/4/2015	For Approval	
DATE	NO.	DESCRIPTION

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DESCRIPTION	COLUMN	DRAWN BY	JL	JOB No.	4146
CHECKED BY		DRG No.	C1101		



2 - COLUMNS - C1102

GRID LOCATION	BOTTOM ELEVATION
/	2'-1 1/2
/	2'-1 1/2

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
2	2	C1102	COLUMNS			GRAY		
2	2	W12X65	W12X65	25'-9 1/2"	3353	SQ-1/BEV-1		A992
1	2	BP1	PL1X16	1'-4"	145	GRAY		A36

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

DATE	NO.	DESCRIPTION	BY
4/7/2015			

For Approval

4/7/2015

DATE NO. DESCRIPTION BY

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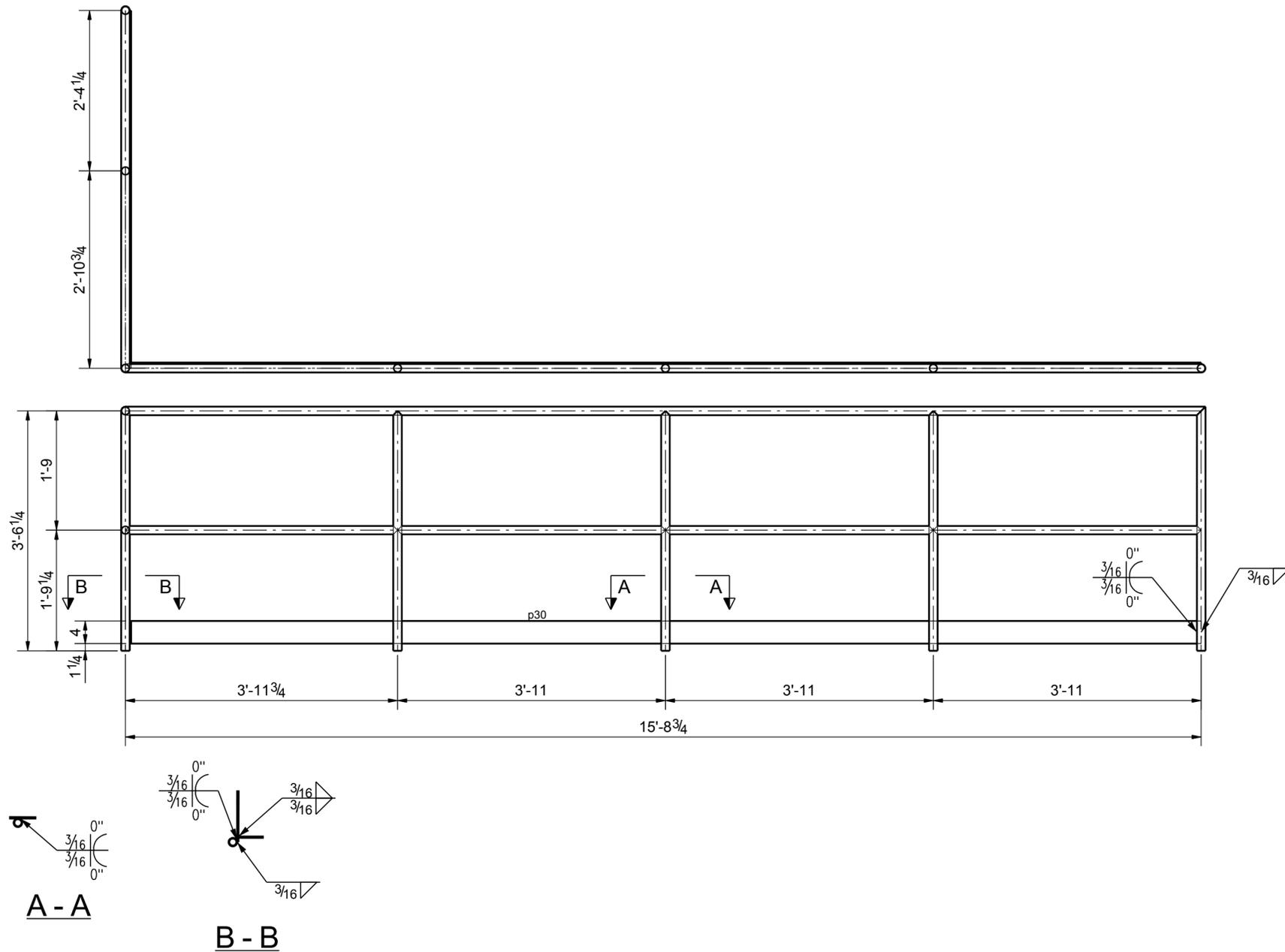
DESCRIPTION: COLUMN

DRAWN BY: JL

CHECKED BY:

JOB No. 4146

DRG No. C1102



SHOP NOTE:
 DIMENSIONS ARE TO THE CENTER LINE OF THE RAIL.
 BUTT WELD AND GRIND SMOOTH, REMOVE ALL BURRS

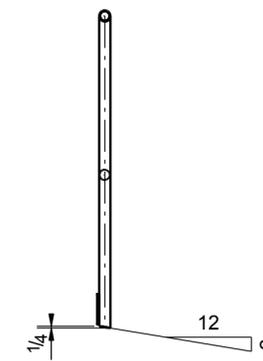
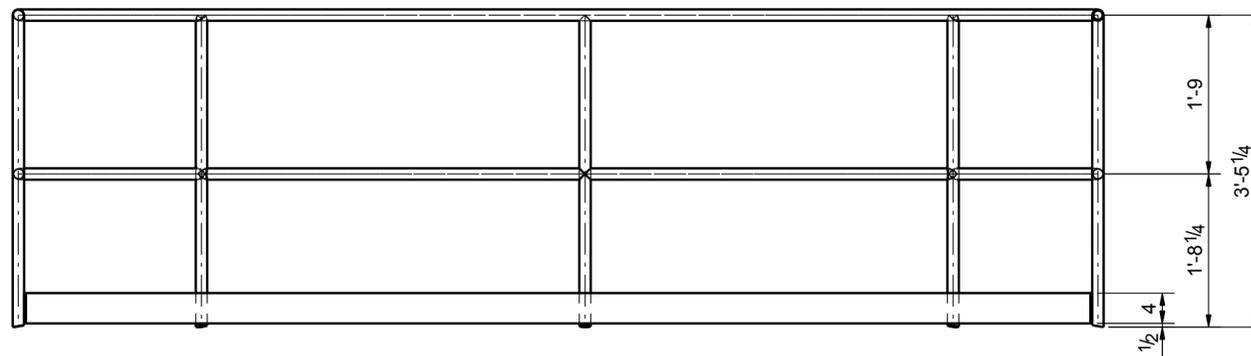
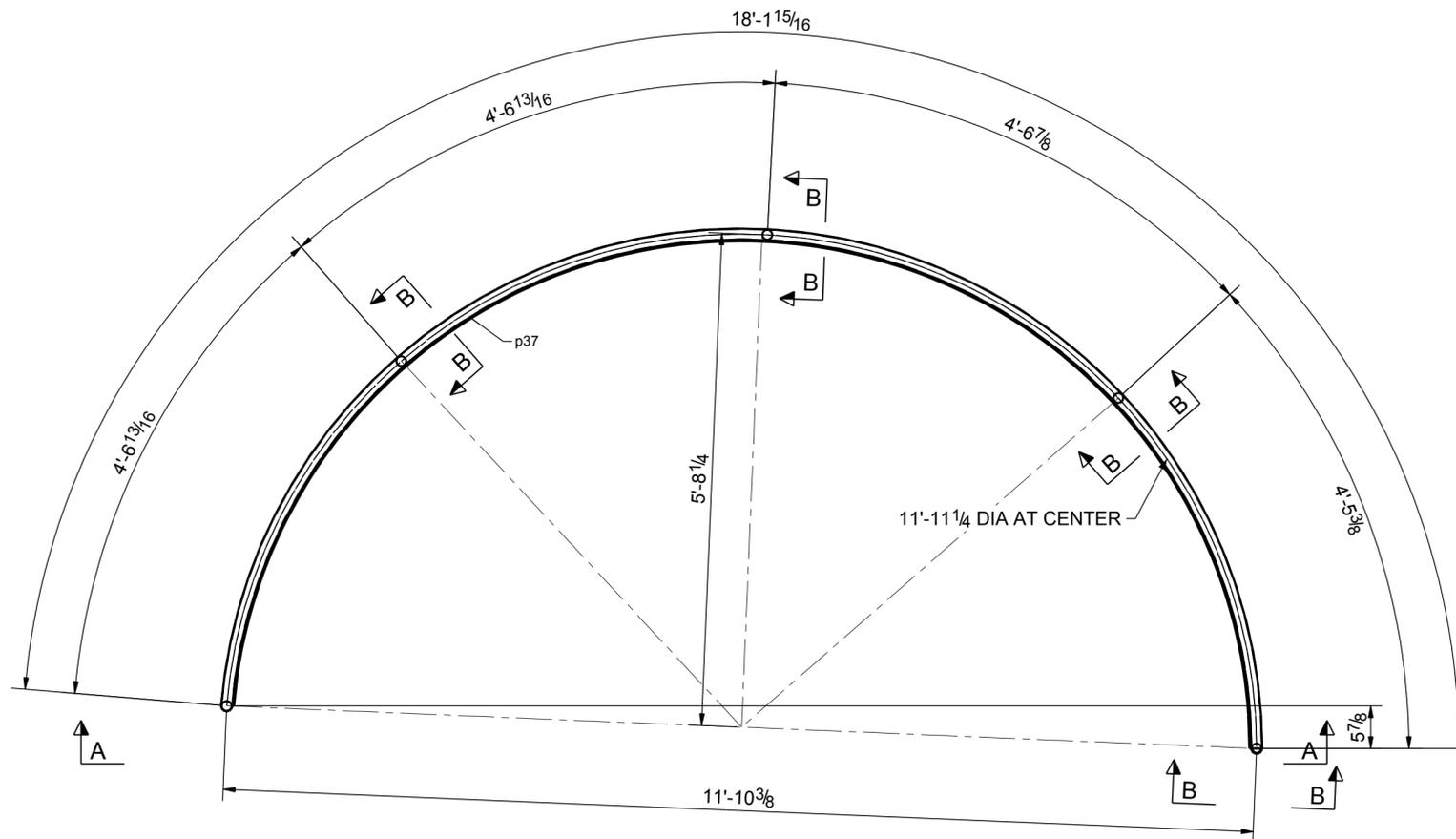
ONE - RAIL - H1102

BILL OF MATERIAL				
MARK	QTY	DESCRIPTION	LENGTH	REMARKS
H1102	1	RAIL		
		HSS1-1/2X.120	66'-11 5/8"	Total Length
p26	1	PL1/4X4	5'-3"	
p30	1	PL1/4X4	15'-7 3/4"	

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

3/4/2015	For Approval	
DATE	NO.	DESCRIPTION
		HANDRAIL
DRAWN BY	JL	JOB No. 4146
CHECKED BY		DRG No. H1102



A - A

B - B

ONE - RAIL - H1103

SHOP NOTE:
DIMENSIONS ARE TO THE CENTER LINE OF THE RAIL
BUTT WELD AND GRIND SMOOTH, REMOVE ALL BURRS

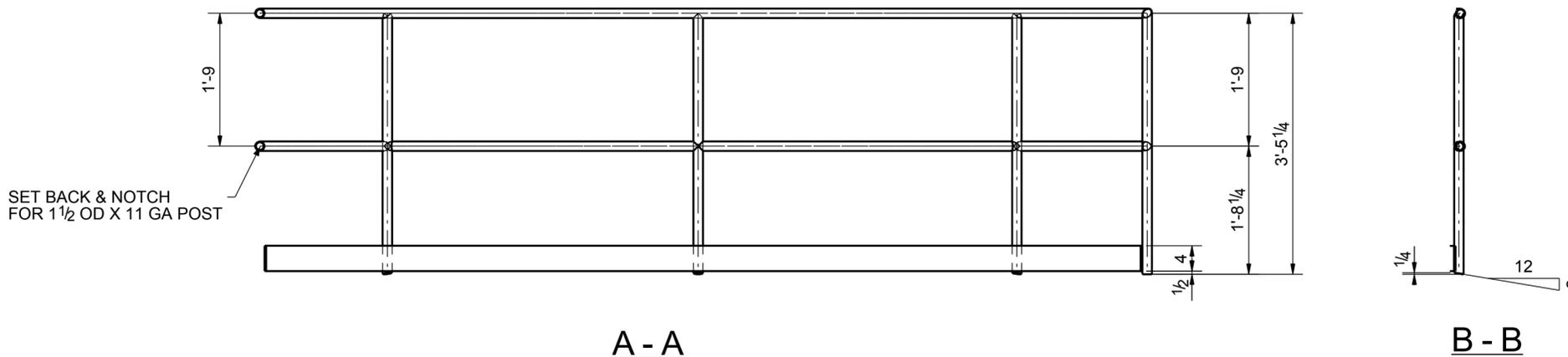
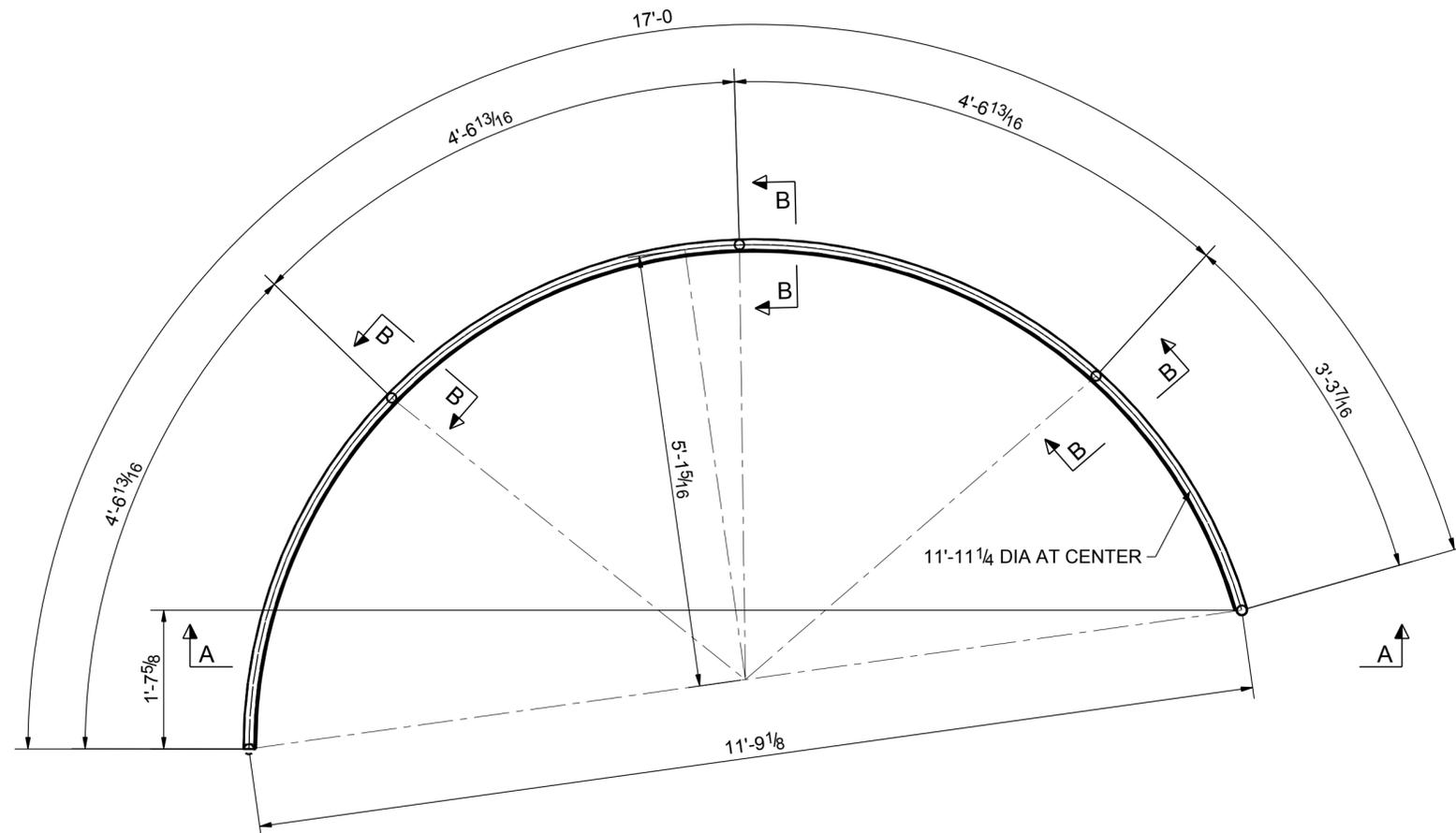
DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

3/4/2015	For Approval	
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DESCRIPTION	DRAWN BY	JOB No.
HANDRAIL	JL	4146
	CHECKED BY	DRG No.
		H1103

BILL OF MATERIAL

MARK	QTY	DESCRIPTION	LENGTH	REMARKS
H1103	1	RAIL		
		HSS1-1/2X.120	53'-7 3/4"	Total Length
p37	1	PL1/4X4	17'-11 3/16"	



ONE - RAIL - H1104

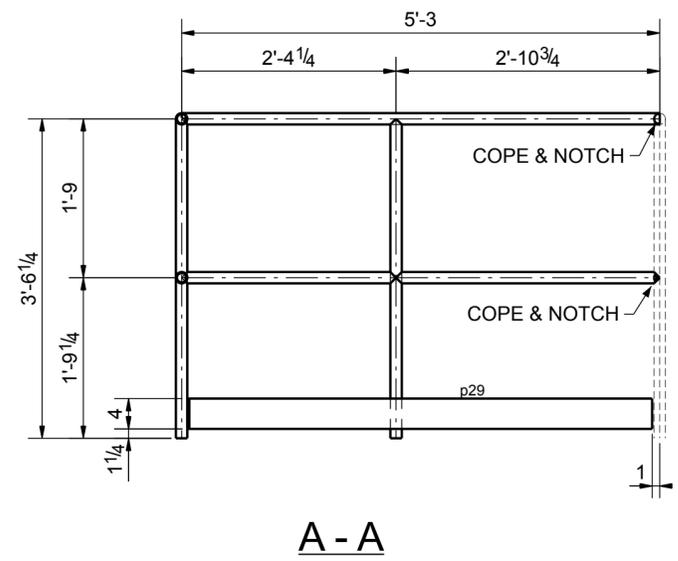
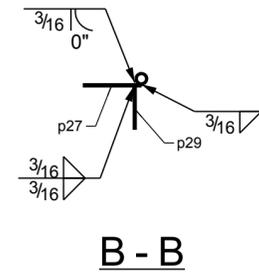
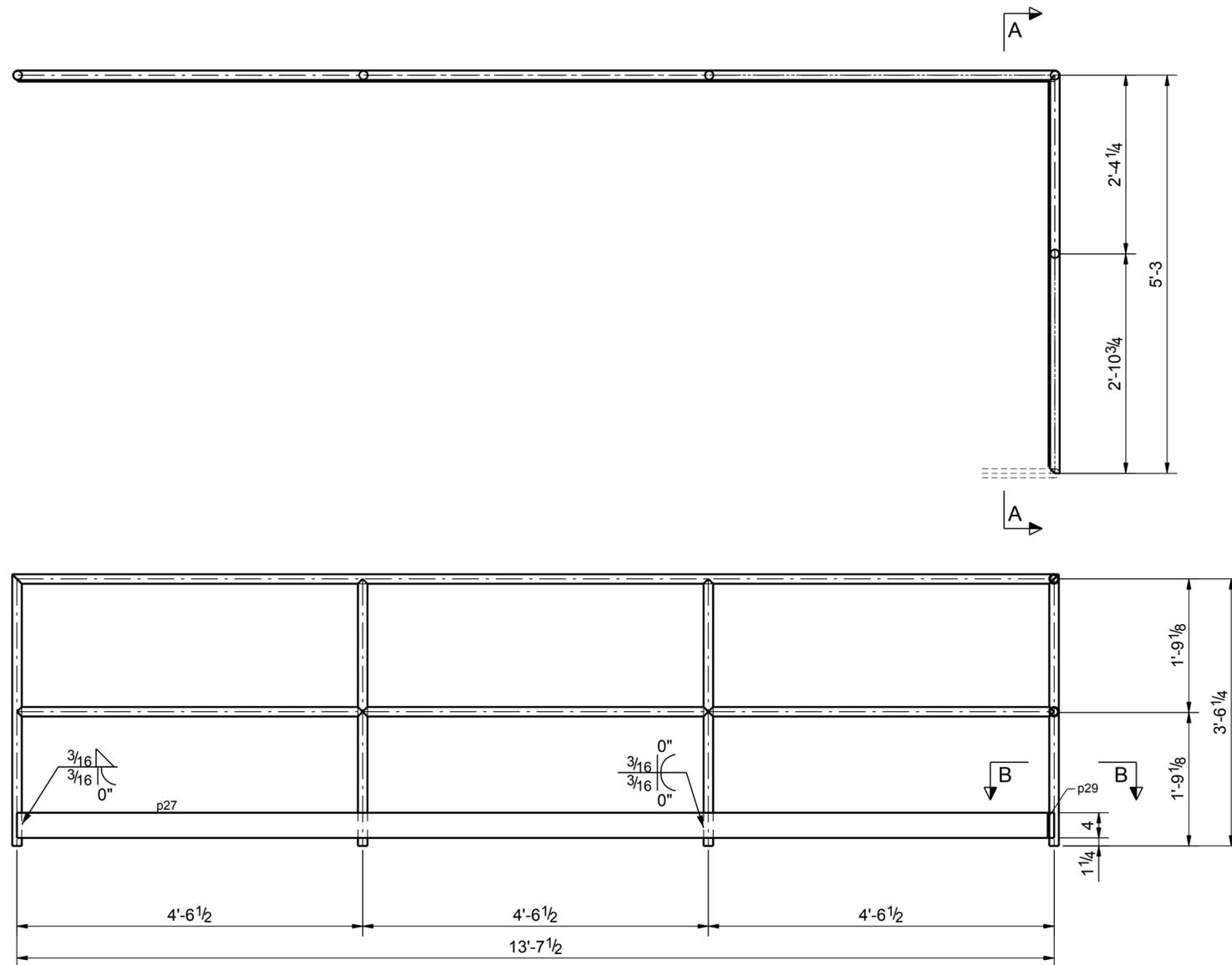
BILL OF MATERIAL				
MARK	QTY	DESCRIPTION	LENGTH	REMARKS
H1104	1	RAIL		
		HSS1-1/2X.120	47'-10 9/16"	Total Length
p38	1	PL1/4X4	16'-9 3/16"	

SHOP NOTE:
DIMENSIONS ARE TO THE CENTER LINE OF THE RAIL
BUTT WELD AND GRIND SMOOTH, REMOVE ALL BURRS

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

3/4/2015	For Approval		
DATE	NO.	DESCRIPTION	BY
DESCRIPTION HANDRAIL		DRAWN BY JL	JOB No. 4146
		CHECKED BY	DRG No. H1104



ONE - RAIL - H1105

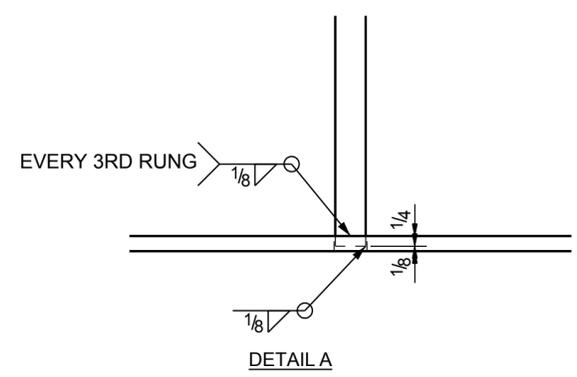
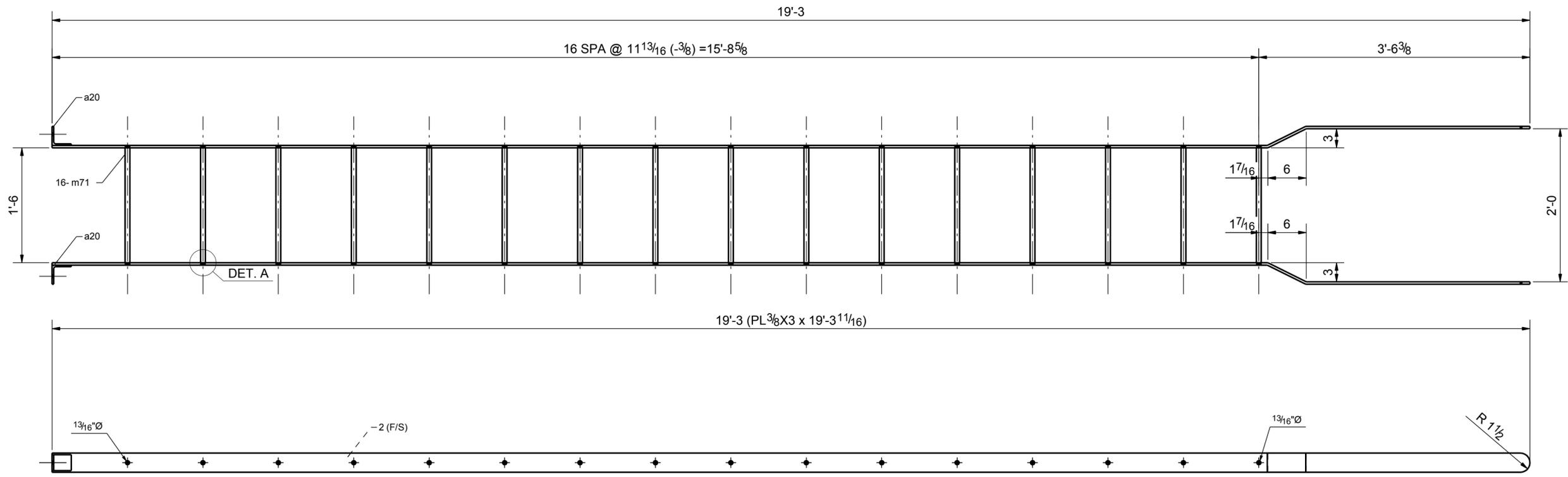
BILL OF MATERIAL				
MARK	QTY	DESCRIPTION	LENGTH	REMARKS
H1105	1	RAIL		
		HSS1-1/2X.120	55'-7 3/16"	Total Length
p27	1	PL1/4X4	13'-7 1/2"	
p29	1	PL1/4X4	5'-1"	

SHOP NOTE:
DIMENSIONS ARE TO THE CENTER LINE OF THE RAIL
BUTT WELD AND GRIND SMOOTH, REMOVE ALL BURRS

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

DATE	3/4/2015	NO.	For Approval
DESCRIPTION	HANDRAIL	DRAWN BY	JL
		CHECKED BY	

 		
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BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	LD1104	LADDER					
1	1		PL3/8X3	19'-3 11/16"	74	SQ-2		A36
1	1	2	PL3/8X3	19'-3 11/16"	74			A36
2	2	a20	L3X3X1/4	0'-2 1/2"	2	GRAY		A36
16	16	m71	ROD3/4	1'-6 1/2"	33			A36
	2		1/2"Ø SLEEVE_ANCE BOLT	0'-4 1/4"		Site		

ONE - LADDER - LD1104

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO	
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO	
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.	
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.	
SURFACE PREP SSPC-SP2 UNO			
PAINT GRAY PRIMER UNO			

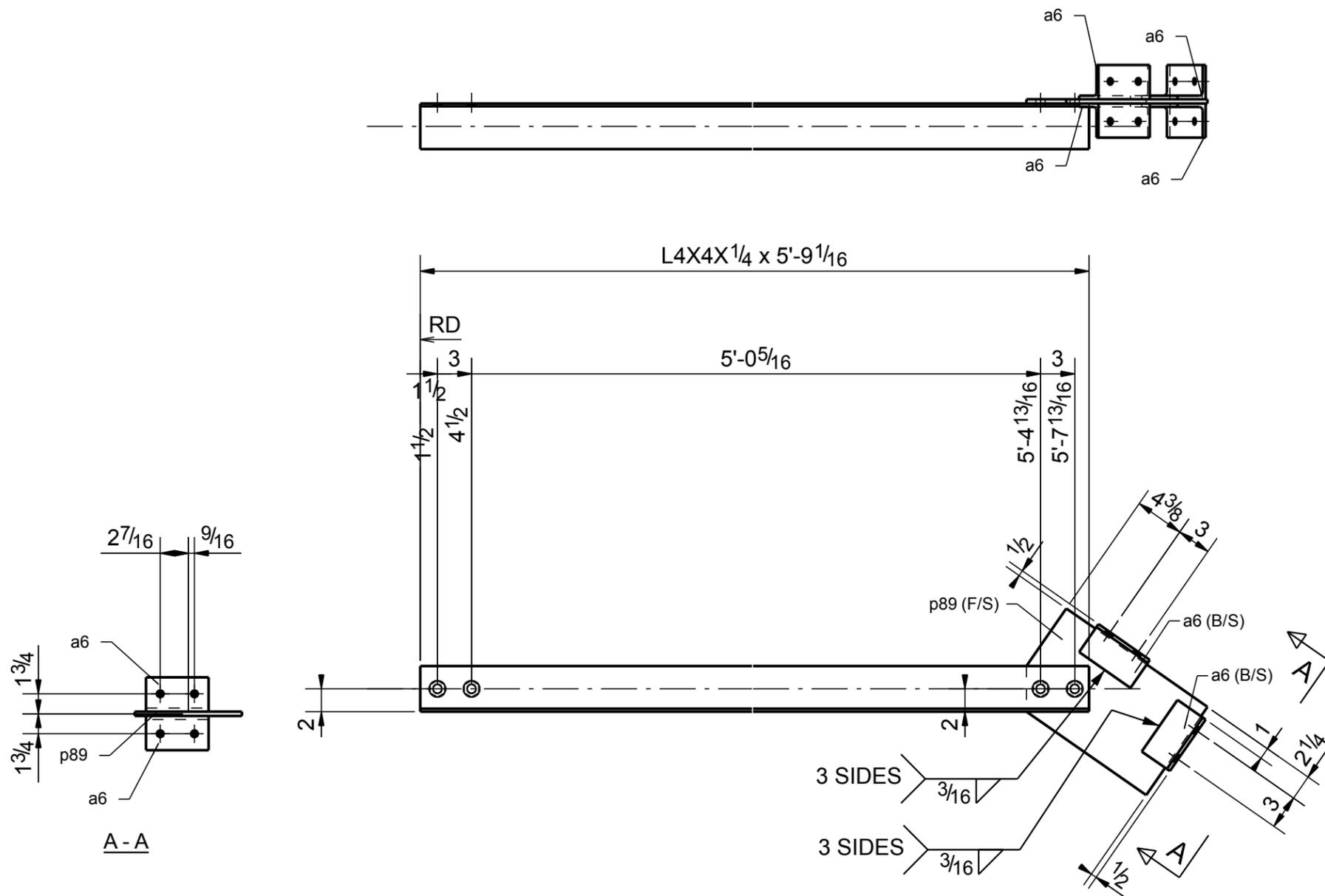
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			DESCRIPTION
			BY

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DESCRIPTION	LADDER	DRAWN BY	JL	JOB No.	4146
CHECKED BY		DRG No.	LD1104		

GRID LOCATION	BOTTOM ELEVATION
-/-	0'



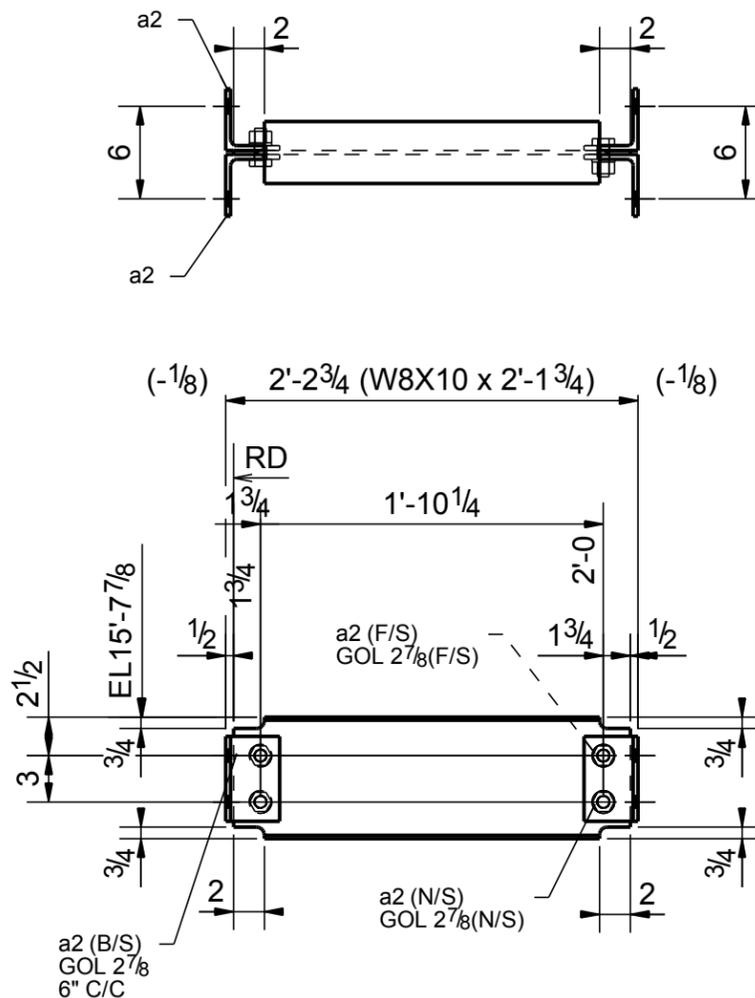
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	A1113	ANGLE			GRAY		
1	1		L4X4X1/4	5'-9 1/16"	38	SQ-2		A36
4	4	a6	L3X3X5/16	0'-5 1/2"	11	GRAY		A36
1	1	p89	PL3/8X9 7/16	1'-3 1/8"	15	GRAY		A36
2	2		3/4"Ø A325N BOLT	0'-1 3/4"	1	Workshop		
	8		3/4"Ø A325N BOLT	0'-2 1/4"		Site		
	2		3/4"Ø A325N BOLT	0'-1 3/4"		Site		

ONE - ANGLE - A1113

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO	
PAINT GRAY PRIMER UNO	

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DESCRIPTION BRACE		CHECKED BY	DRG No. A1113



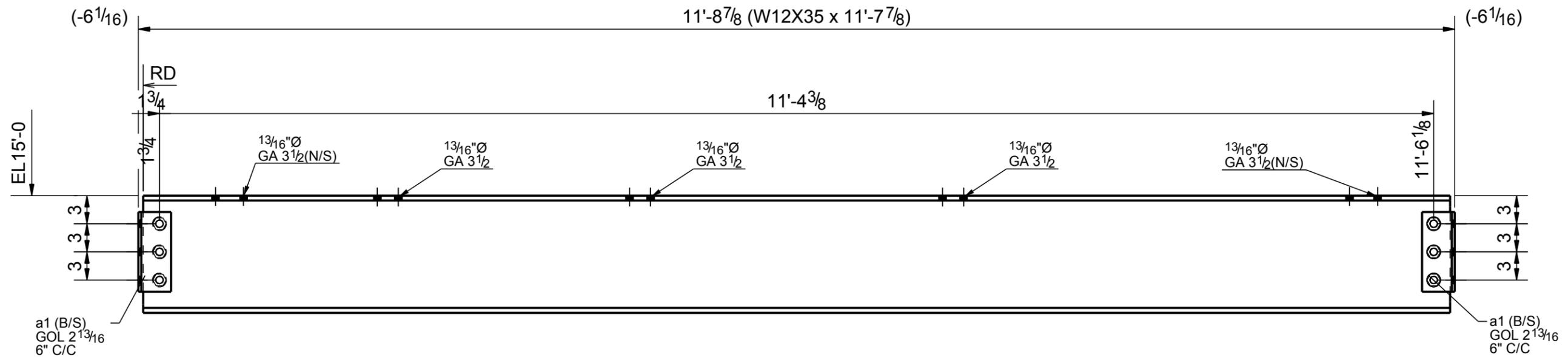
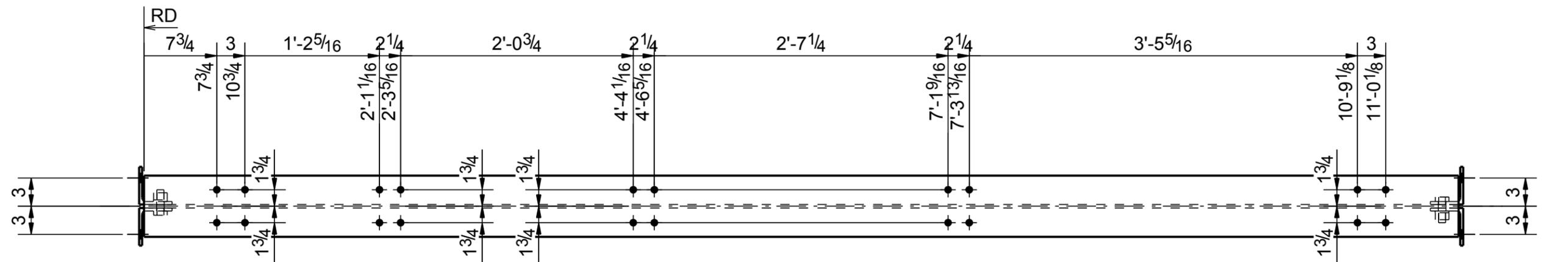
ONE - BEAM - B1101

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1101	BEAM			GRAY		
1	1		W8X10	2'-1 3/4"	22	SQ-2		A992
4	4	a2	L4X3-1/2X5/16	0'-5 1/2"	14	GRAY		A36
4	4		3/4"Ø A325N BOLT	0'-2"	2	Workshop		
4	4		3/4"Ø A325N BOLT	0'-2"		Site		
4	4		3/4"Ø A325N BOLT	0'-1 3/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

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BEAM	JL	4146	
	CHECKED BY	DRG No.	
		B1101	



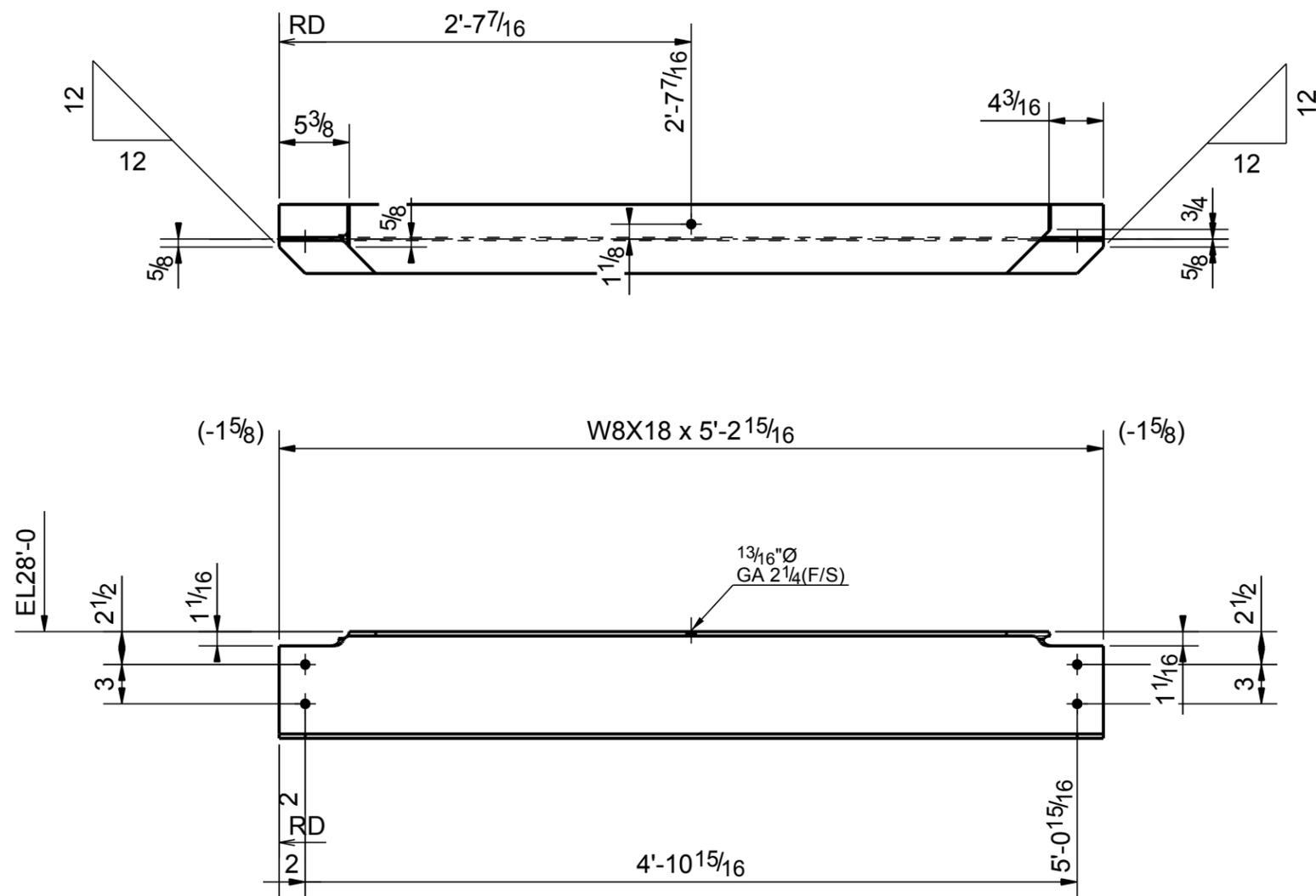
ONE - BEAM - B1102

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1102	BEAM			GRAY		
1	1		W12X35	11'-7 7/8"	409	SQ-2		A992
4	4	a1	L4X3-1/2X5/16	0'-8 1/2"	22	GRAY		A36
6	6		3/4"Ø A325N BOLT	0'-2 1/4"	4	Workshop		
12			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	△	For Approval	
3/4/2015	△	For Approval	
DATE	NO.	DESCRIPTION	BY
DRAWN BY	JL	JOB No.	4146
CHECKED BY		DRG No.	B1102



2 - BEAMS - B1104

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3/4/2015		For Approval	
DATE	NO.	DESCRIPTION	BY

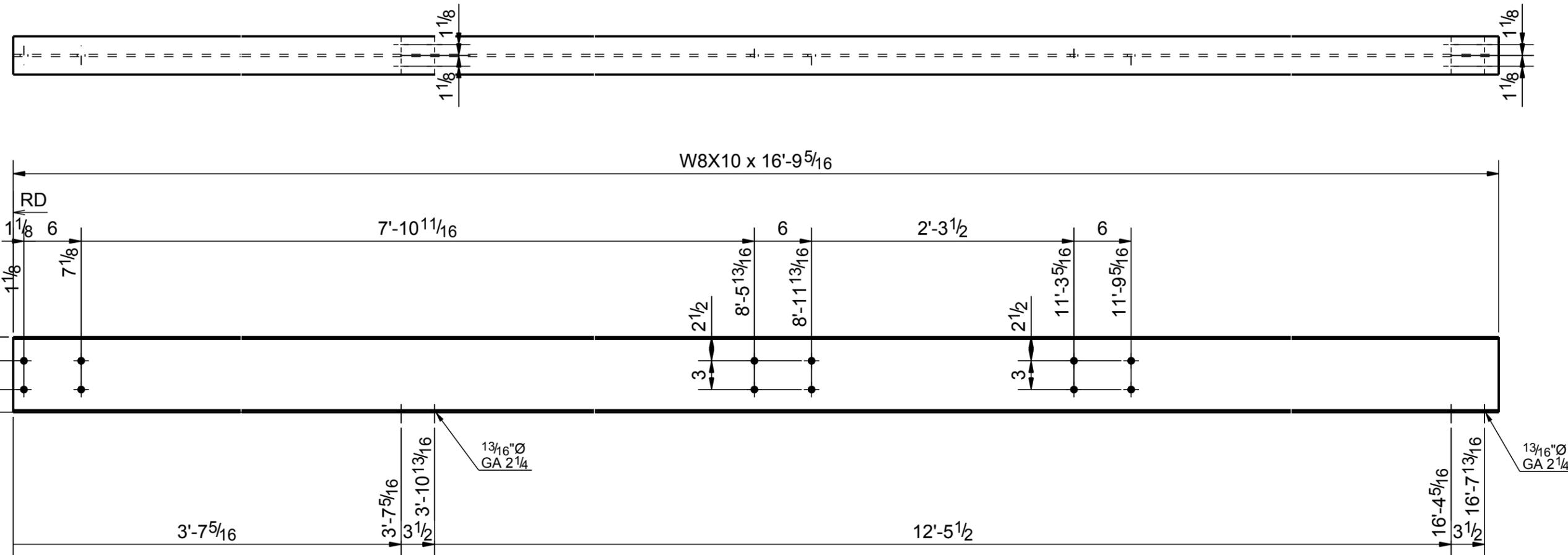
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	B1104	BEAMS			GRAY		
2	2		W8X18	5'-2 15/16"	188	SQ-2		A992
	8		3/4"Ø A325N BOLT	0'-1 3/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO		
BOLTS	TYPE 1 SNUG TIGHT	UNO
ELECTRODES	E70XX (LH)	UNO
OPEN HOLES	13/16	UNO
SURFACE PREP	SSPC-SP2	UNO
PAINT	GRAY PRIMER	UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

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	DESCRIPTION BEAM	DRAWN BY JL CHECKED BY
JOB No. 4146 DRG No. B1104		



2 - BEAMS - B1106

3/24/2015	△	For Approval	
3/4/2015	△	For Approval	
DATE	NO.	DESCRIPTION	BY

BILL OF MATERIAL

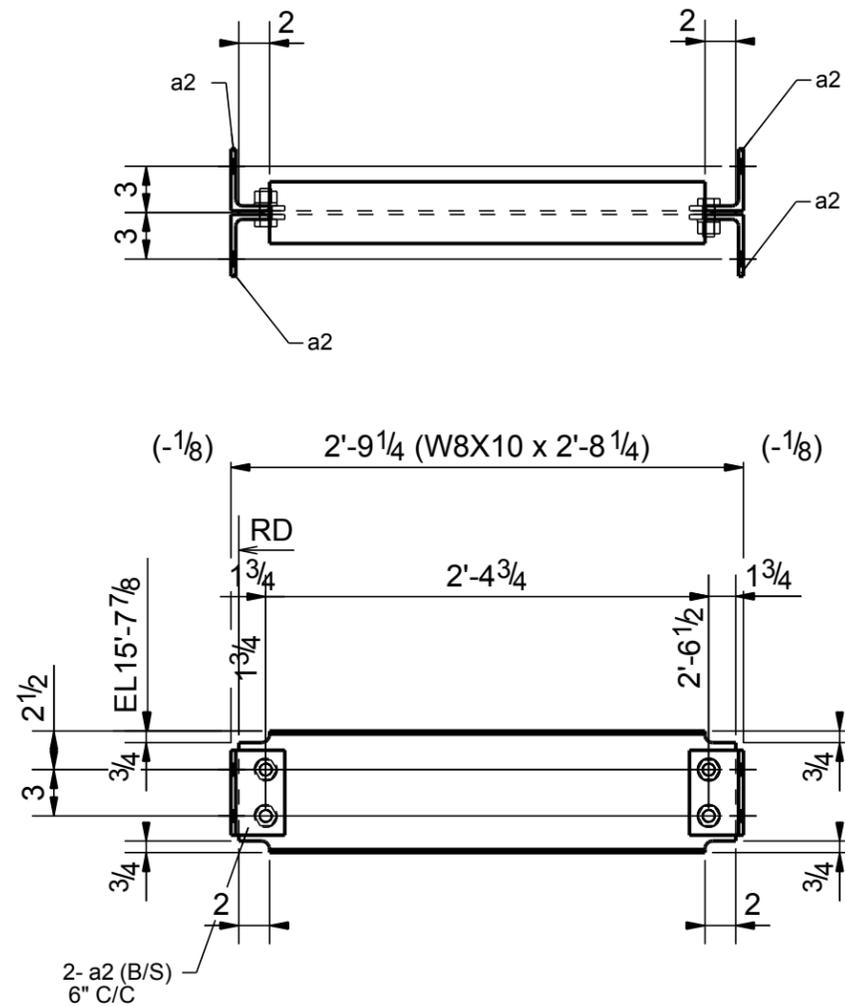
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	B1106	BEAMS			GRAY		
2	2		W8X10	16'-9 5/16"	338	SQ-2		A992
	16		3/4"Ø A325N BOLT	0'-2"		Site		

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

	DESCRIPTION	BEAM
	CHECKED BY	JL
	DRAWN BY	JL
	JOB No.	4146
	DRG No.	B1106

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3 - BEAMS - B1107

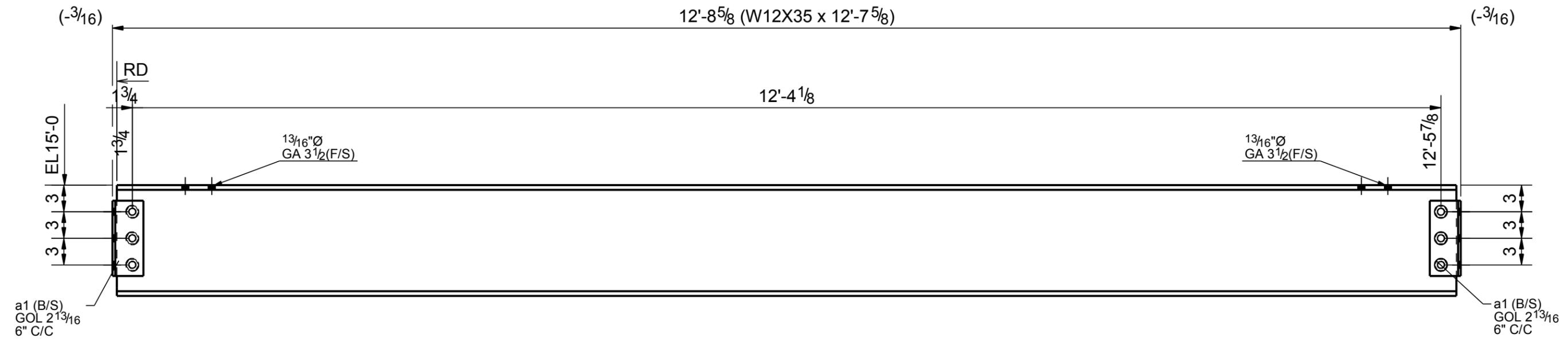
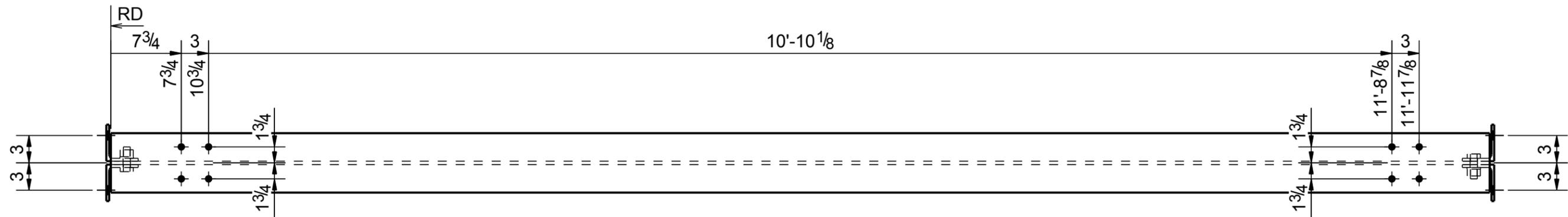
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	3	B1107	BEAMS			GRAY		
3	3		W8X10	2'-8 1/4"	81	SQ-2		A992
4	12	a2	L4X3-1/2X5/16	0'-5 1/2"	42	GRAY		A36
4	12		3/4"Ø A325N BOLT	0'-2"	7	Workshop		
	20		3/4"Ø A325N BOLT	0'-1 3/4"		Site		

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

3/24/2015		For Approval	
3/4/2015		For Approval	
DATE	NO.	DESCRIPTION	BY
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BEAM		DRAWN BY	JL
		CHECKED BY	
		JOB No.	4146
		DRG No.	B1107



2 - BEAMS - B1108

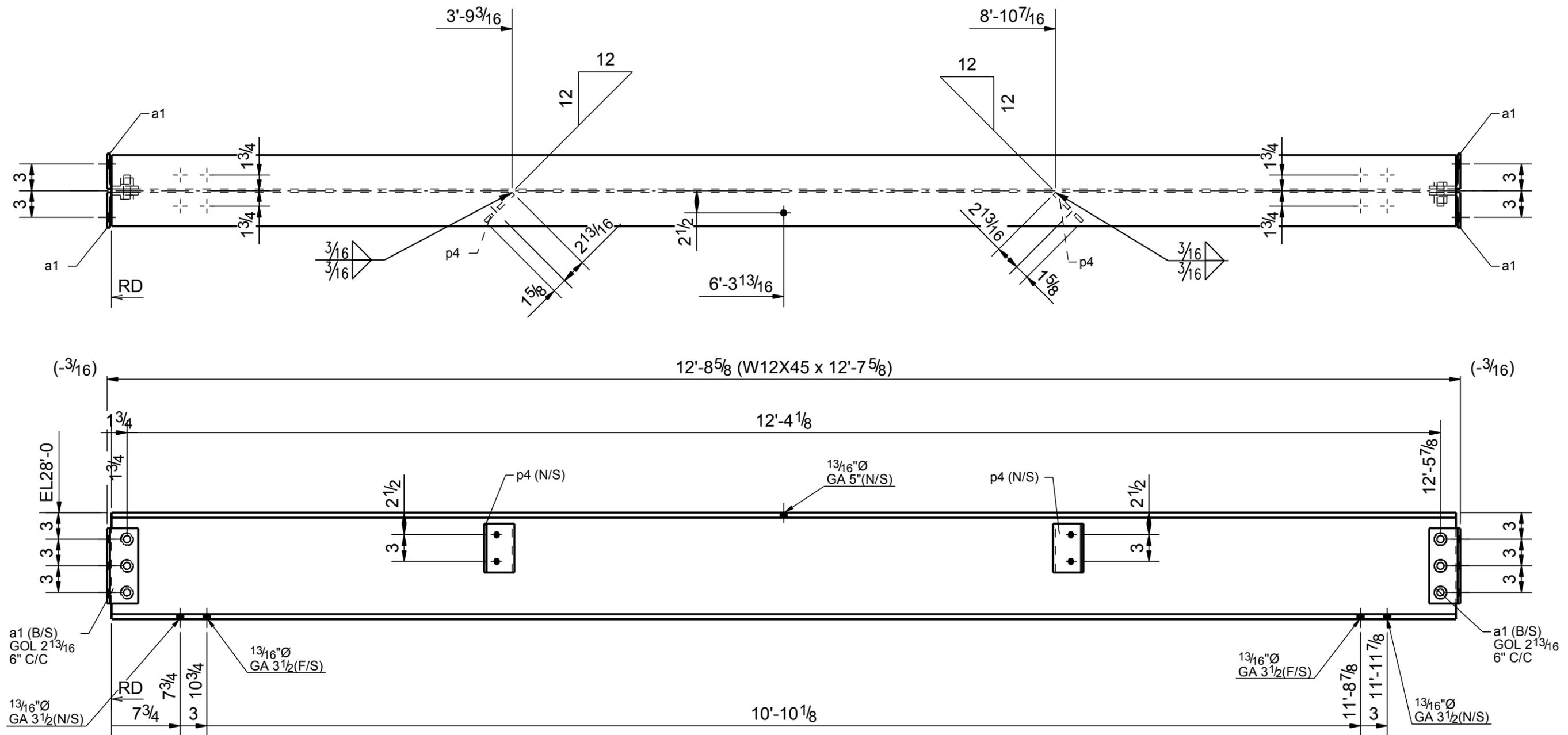
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	B1108	BEAMS			GRAY		
2	2		W12X35	12'-7 5/8"	886	SQ-2		A992
4	8	a1	L4X3-1/2X5/16	0'-8 1/2"	43	GRAY		A36
6	12		3/4"Ø A325N BOLT	0'-2 1/4"	7	Workshop		
	24		3/4"Ø A325N BOLT	0'-2"		Site		

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

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3/4/2015	▲	For Approval	
DATE	NO.	DESCRIPTION	BY
			
DESCRIPTION		DRAWN BY	JOB No.
BEAM		JL	4146
CHECKED BY		DRG No.	
			B1108



2 - BEAMS - B1109

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	B1109	BEAMS			GRAY		
2	2		W12X45	12'-7 5/8"	1127	SQ-2		A992
4	8	a1	L4X3-1/2X5/16	0'-8 1/2"	43	GRAY		A36
2	4	p4	PL3/8X5 1/2	0'-4 7/16"	10	GRAY		A36
6	12		3/4"Ø A325N BOLT	0'-2 1/4"	7	Workshop		
	24		3/4"Ø A325N BOLT	0'-2"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

3/24/2015	△	For Approval
3/4/2015	△	For Approval
DATE	NO.	DESCRIPTION
		BY

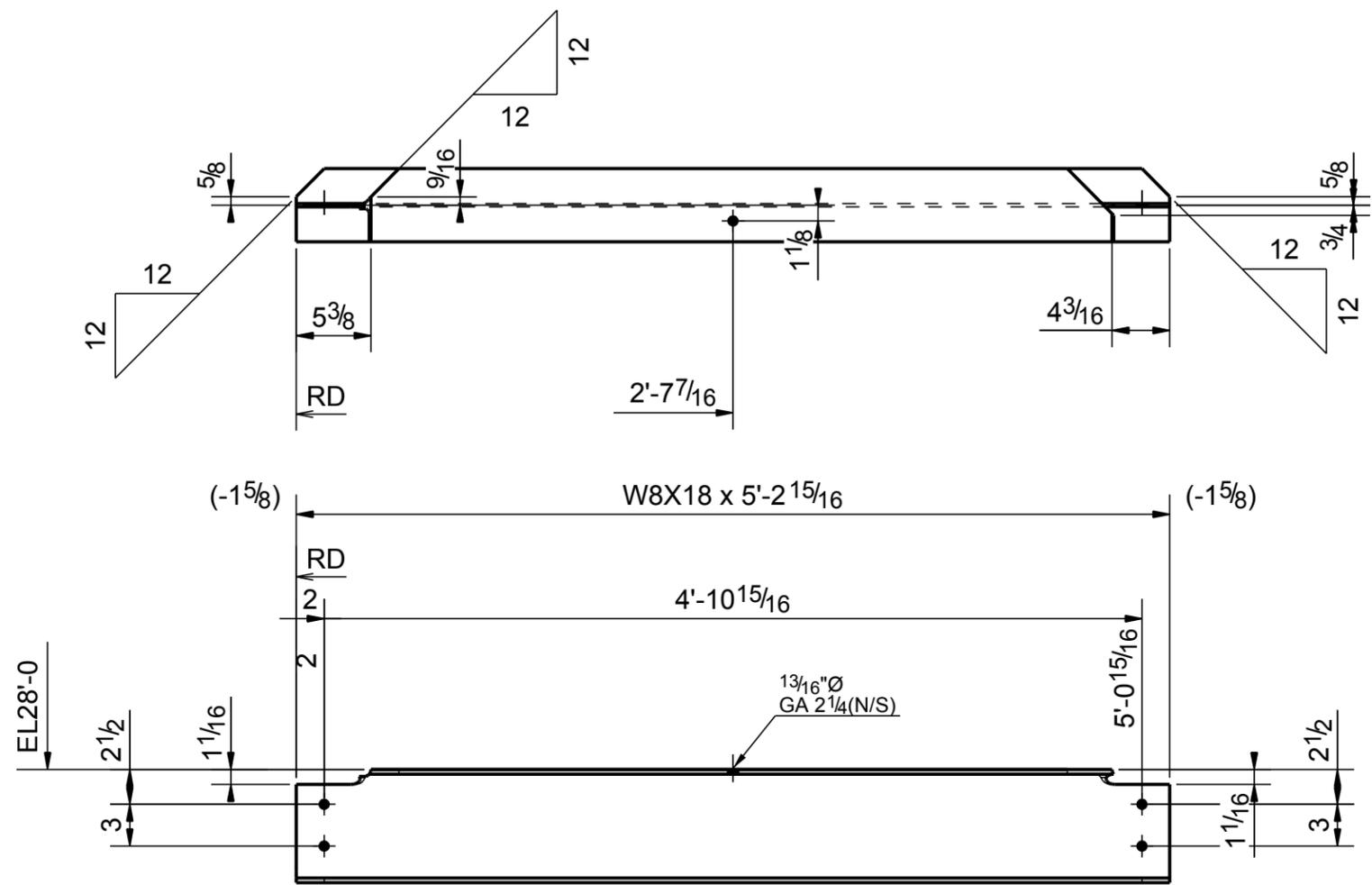


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DESCRIPTION	DRAWN BY	JOB No.
BEAM	JL	4146
	CHECKED BY	DRG No.
		B1109



2 - BEAMS - B1111

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3/4/2015	△	For Approval	
DATE	NO.	DESCRIPTION	BY

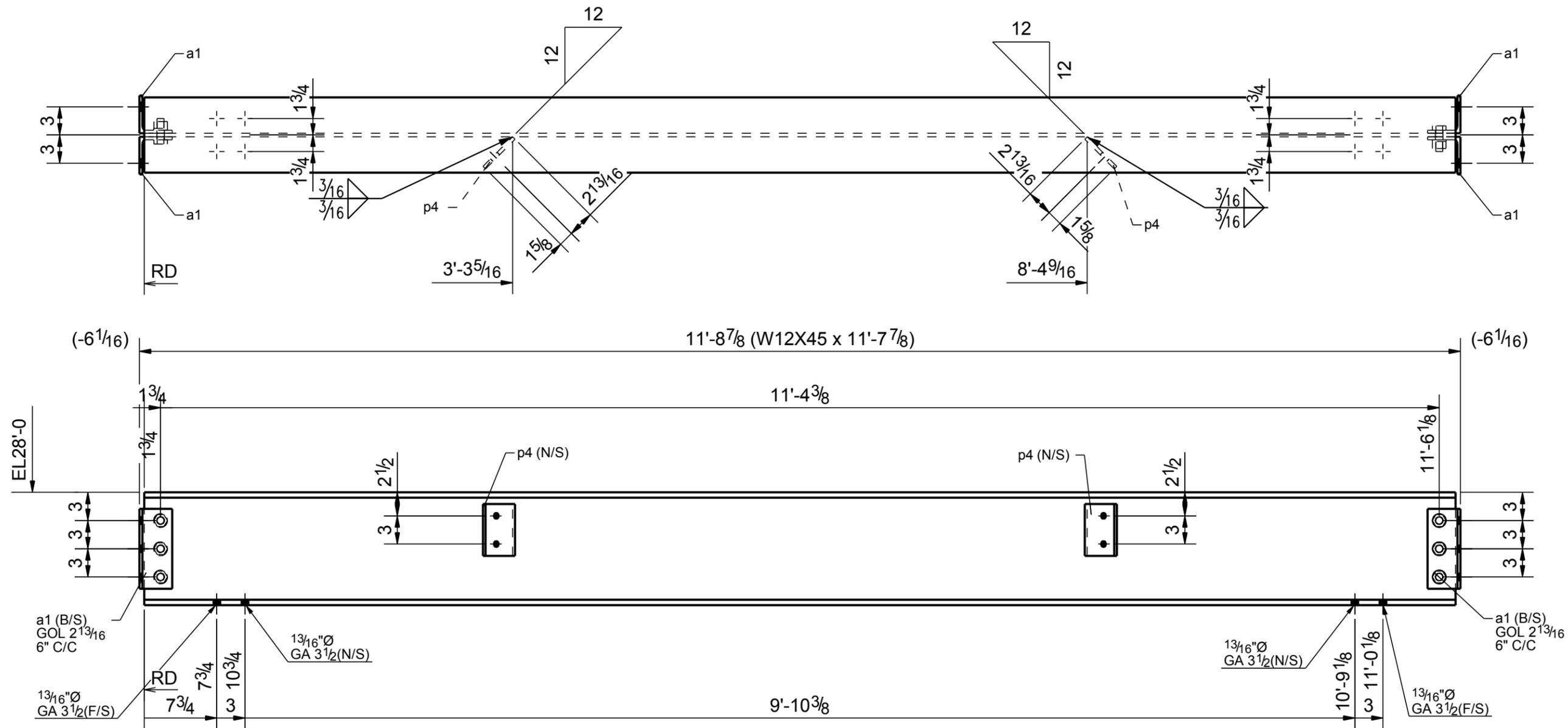
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	2	B1111	BEAMS			GRAY		
2	2		W8X18	5'-2 15/16"	188	SQ-2		A992
8			3/4"Ø A325N BOLT	0'-1 3/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO		
BOLTS	TYPE 1 SNUG TIGHT	UNO
ELECTRODES	E70XX (LH)	UNO
OPEN HOLES	13/16	UNO
SURFACE PREP	SSPC-SP2	UNO
PAINT	GRAY PRIMER	UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

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DESCRIPTION	DRAWN BY	JOB No.
BEAM	JL	4146
CHECKED BY		DRG No.
		B1111



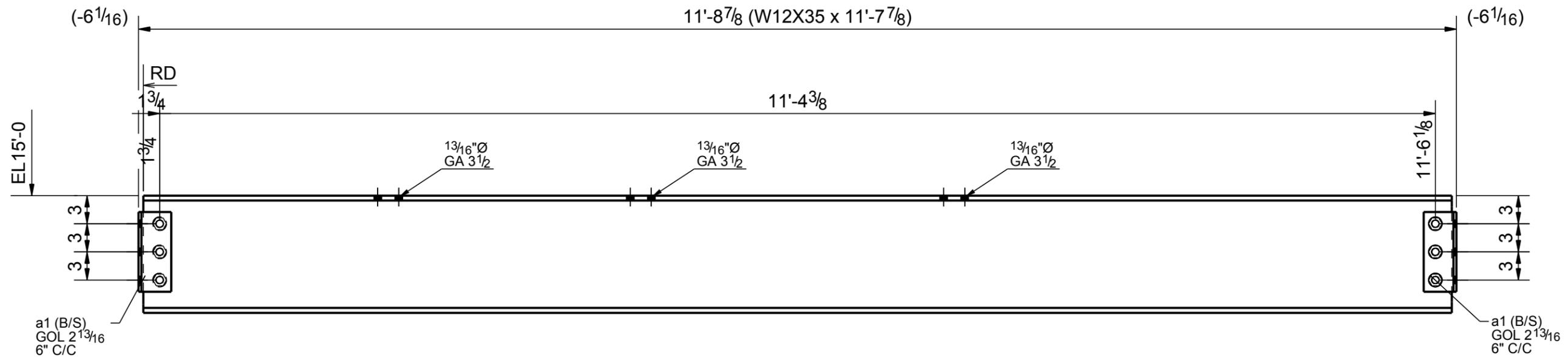
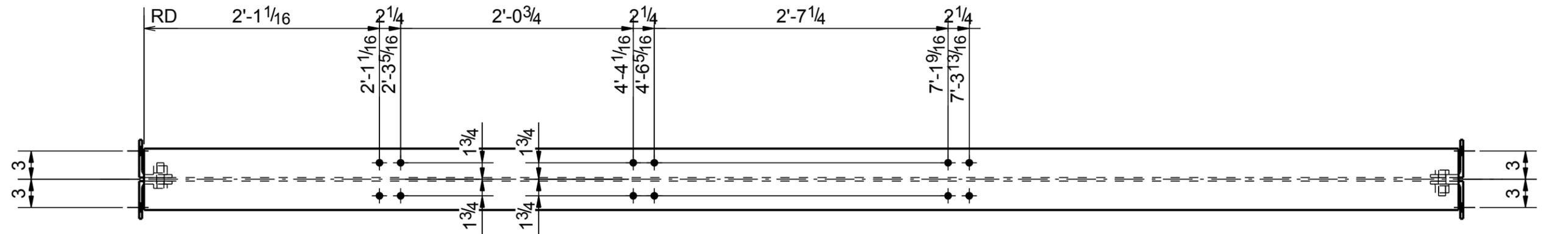
ONE - BEAM - B1112

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1112	BEAM			GRAY		
1	1		W12X45	11'-7 7/8"	520	SQ-2		A992
4	4	a1	L4X3-1/2X5/16	0'-8 1/2"	22	GRAY		A36
2	2	p4	PL3/8X5 1/2	0'-4 7/16"	5	GRAY		A36
6	6		3/4"Ø A325N BOLT	0'-2 1/4"	4	Workshop		
12			3/4"Ø A325N BOLT	0'-2 1/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

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3/4/2015	△	For Approval	
DATE	NO.	DESCRIPTION	BY
		DOING STEEL 2125 N. Golden, Springfield, MO 65803 (417) 866-5020 FAX (417) 866-7619 www.doingsteel.com	
DESCRIPTION		DRAWN BY	JOB No.
BEAM		JL	4146
CHECKED BY		DRG No.	
			B1112



ONE - BEAM - B1113

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1113	BEAM			GRAY		
1	1		W12X35	11'-7 7/8"	409	SQ-2		A992
4	4	a1	L4X3-1/2X5/16	0'-8 1/2"	22	GRAY		A36
6	6		3/4"Ø A325N BOLT	0'-2 1/4"	4	Workshop		
	12		3/4"Ø A325N BOLT	0'-2 1/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO	
PAINT GRAY PRIMER UNO	

4/7/2015	For Approval
DATE	NO.
DESCRIPTION	
BY	

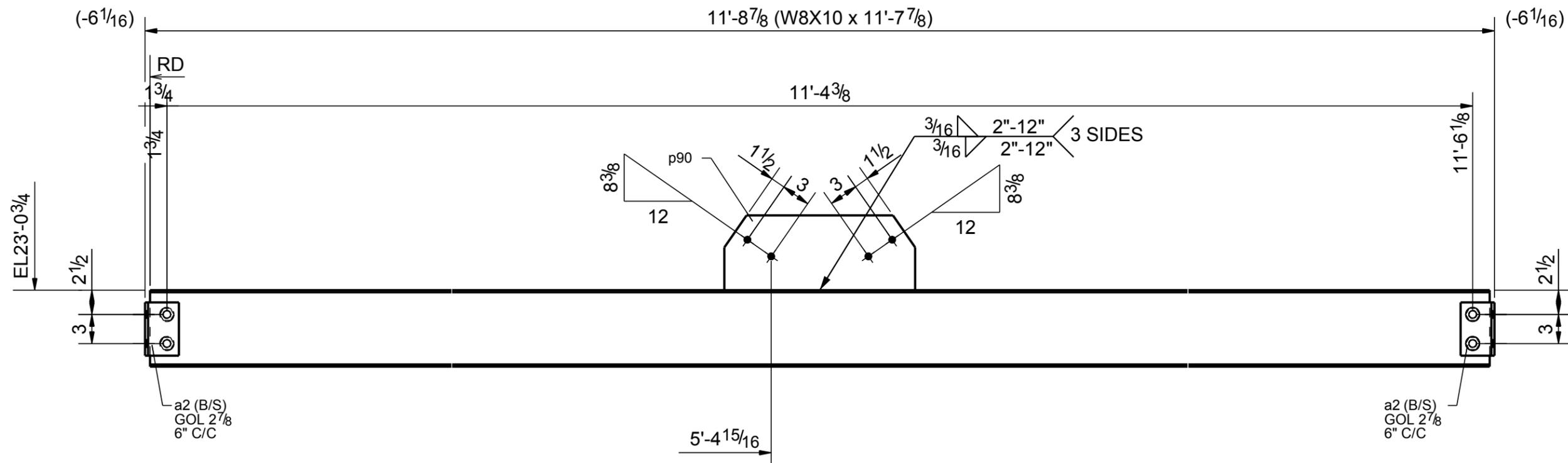


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DESCRIPTION BEAM	DRAWN BY JL	JOB No. 4146
CHECKED BY		DRG No. B1113



ONE - BEAM - B1114

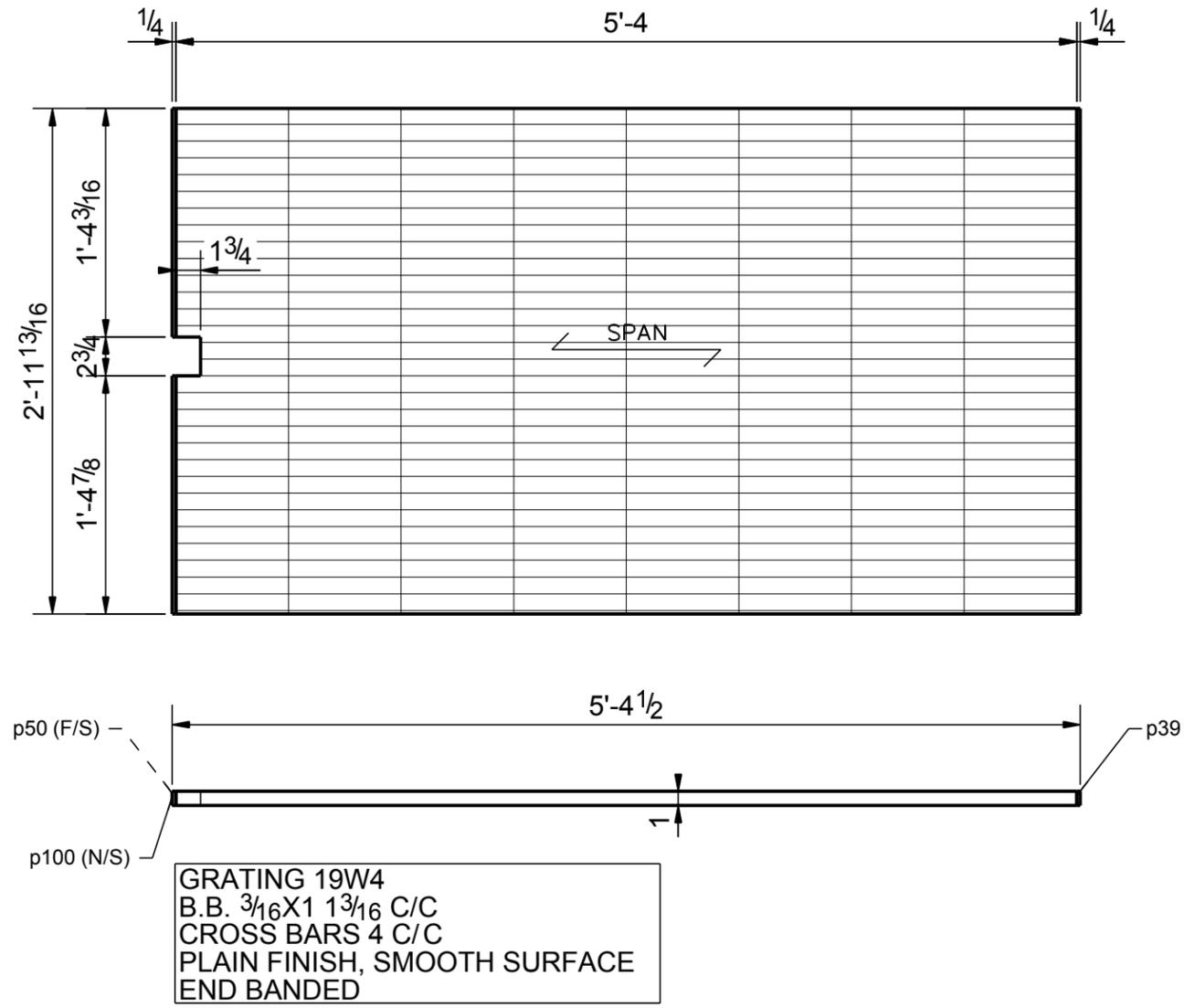
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	B1114	BEAM			GRAY		
1	1		W8X10	11'-7 7/8"	117	SQ-2		A992
4	4	a2	L4X3-1/2X5/16	0'-5 1/2"	14	GRAY		A36
1	1	p90	PL3/8X7 11/16	1'-7 3/4"	15	GRAY		A36
4	4		3/4"Ø A325N BOLT	0'-2"	2	Workshop		
	8		3/4"Ø A325N BOLT	0'-2 1/4"		Site		

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

DATE	NO.	DESCRIPTION	BY
4/7/2015	A	For Approval	
PROJECT NAME		TRI LAKES BIOSOLIDS SILO	
LOCATION		BRANSON, MO	
CONTRACTOR		CARSON-MITCHELL, INC.	
ARCHITECT		CARSON-MITCHELL, INC.	

		
DESCRIPTION BEAM		DRAWN BY JL
CHECKED BY		JOB No. 4146
DRG No. B1114		



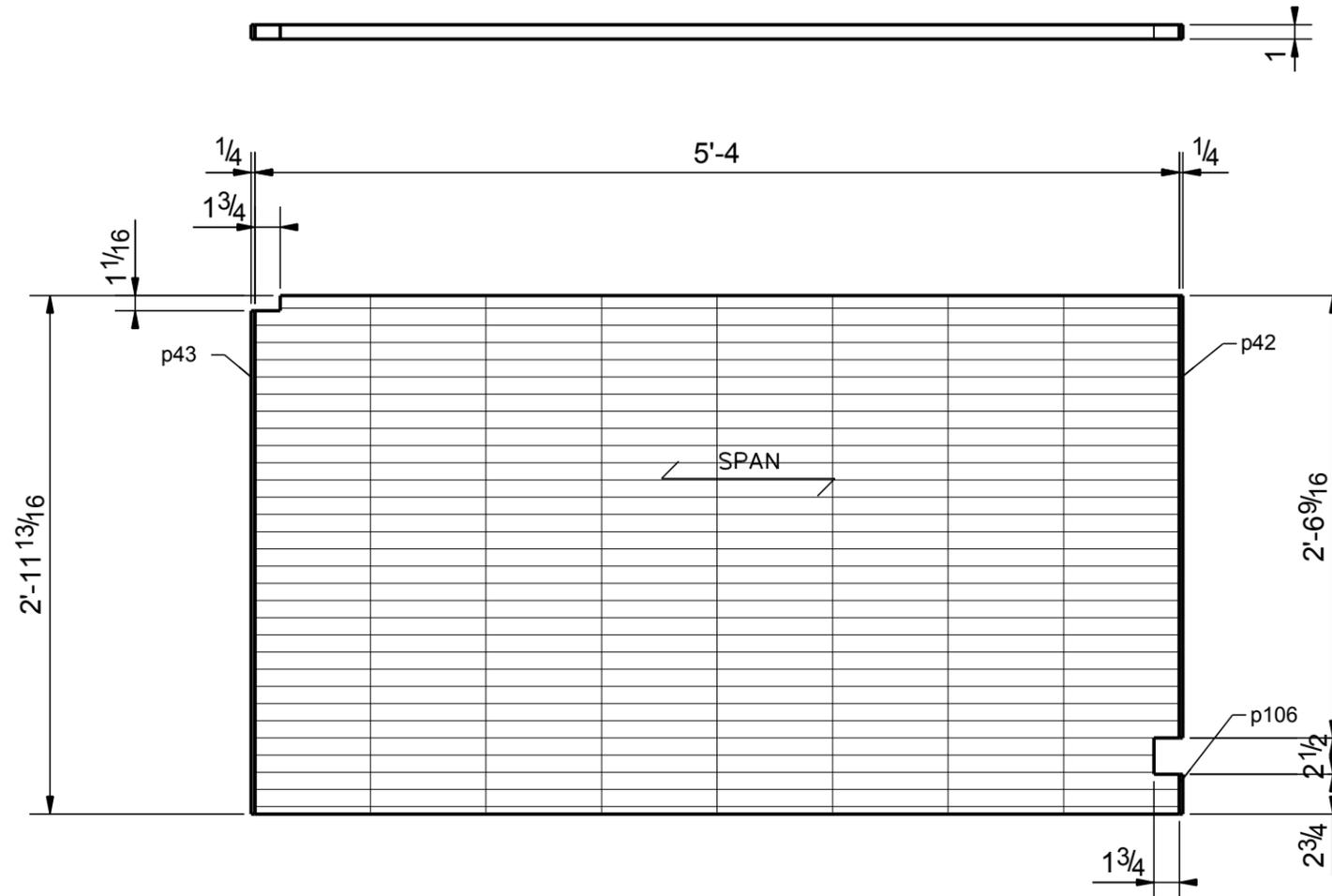
ONE - GRATING - M1101

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	M1101	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
1	1	p39	PL1/4X1	2'-11 13/16"	3	GRAY		A36
1	1	p50	PL1/4X1	1'-4 3/16"	1	GRAY		A36
1	1	p100	PL1/4X1	1'-4 7/8"	1	GRAY		A36

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

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DATE	NO.	DESCRIPTION
DESCRIPTION GRATING		DRAWN BY JL
CHECKED BY		JOB No. 4146
DRG No. M1101		



GRATING 19W4
 B.B. 3/16X1 13/16 C/C
 CROSS BARS 4 C/C
 PLAIN FINISH, SMOOTH SURFACE
 END BANDED

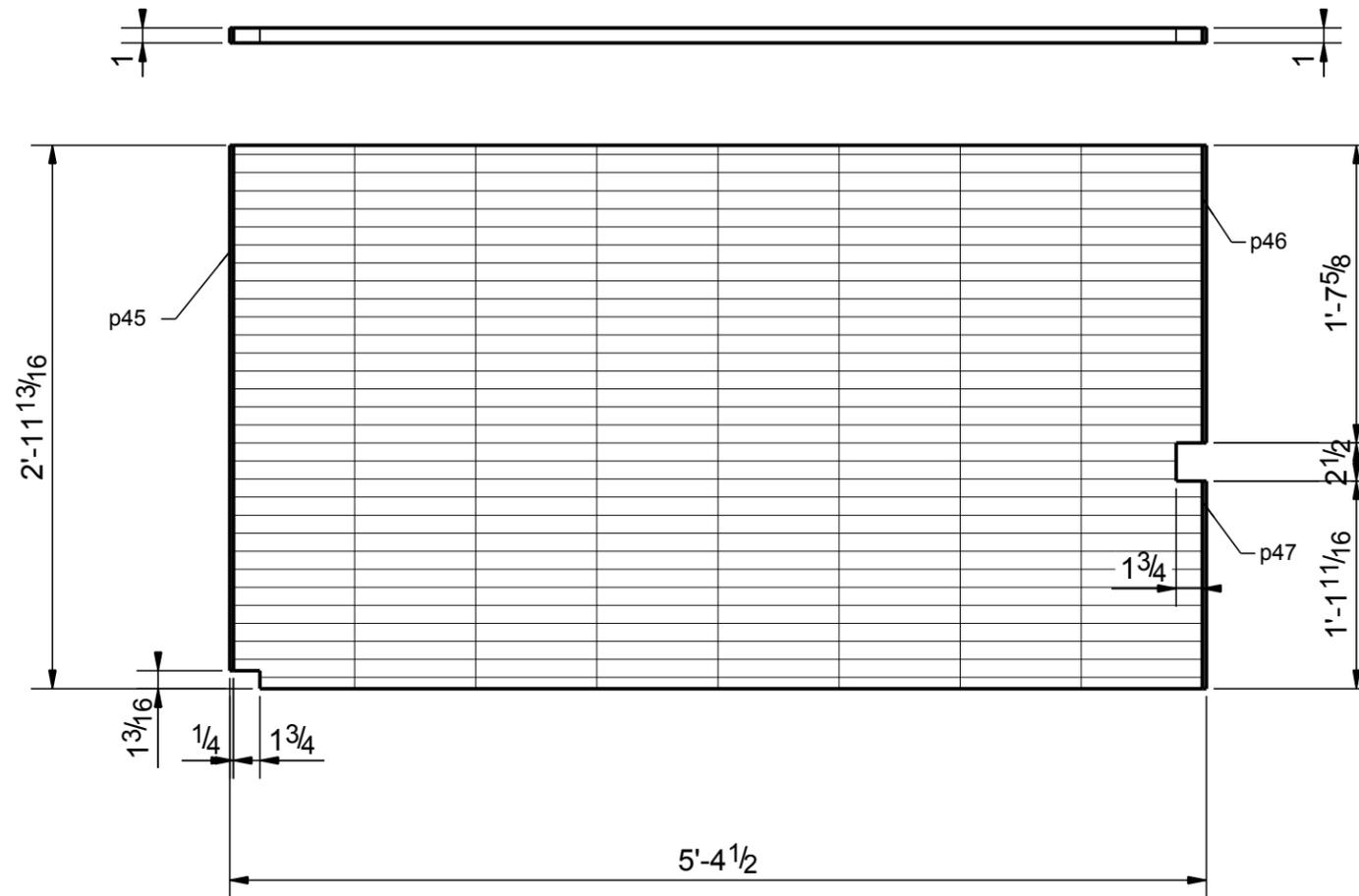
ONE - GRATING - M1102

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	M1102	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
1	1	p42	PL1/4X1	2'-6 9/16"	2	GRAY		A36
1	1	p43	PL1/4X1	2'-10 3/4"	2	GRAY		A36
1	1	p106	PL1/4X1	0'-2 3/4"	0	GRAY		A36

DOMESTIC MATERIAL REQUIRED = NO	PROJECT NAME	TRI LAKES BIOSOLIDS SILO
BOLTS TYPE 1 SNUG TIGHT UNO	LOCATION	BRANSON, MO
ELECTRODES E70XX (LH) UNO	CONTRACTOR	CARSON-MITCHELL, INC.
OPEN HOLES 13/16 UNO	ARCHITECT	CARSON-MITCHELL, INC.
SURFACE PREP SSPC-SP2 UNO		
PAINT GRAY PRIMER UNO		

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3/4/2015	△	For Approval	
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DESCRIPTION		DRAWN BY	JOB No.
GRATING		JL	4146
		CHECKED BY	DRG No.
			M1102



GRATING 19W4
 B.B. 3/16X1 13/16 C/C
 CROSS BARS 4 C/C
 PLAIN FINISH, SMOOTH SURFACE
 END BANDED

ONE - GRATING - M1103

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	M1103	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
1	1	p45	PL1/4X1	2'-10 5/8"	2	GRAY		A36
1	1	p46	PL1/4X1	1'-7 5/8"	1	GRAY		A36
1	1	p47	PL1/4X1	1'-1 11/16"	1	GRAY		A36

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

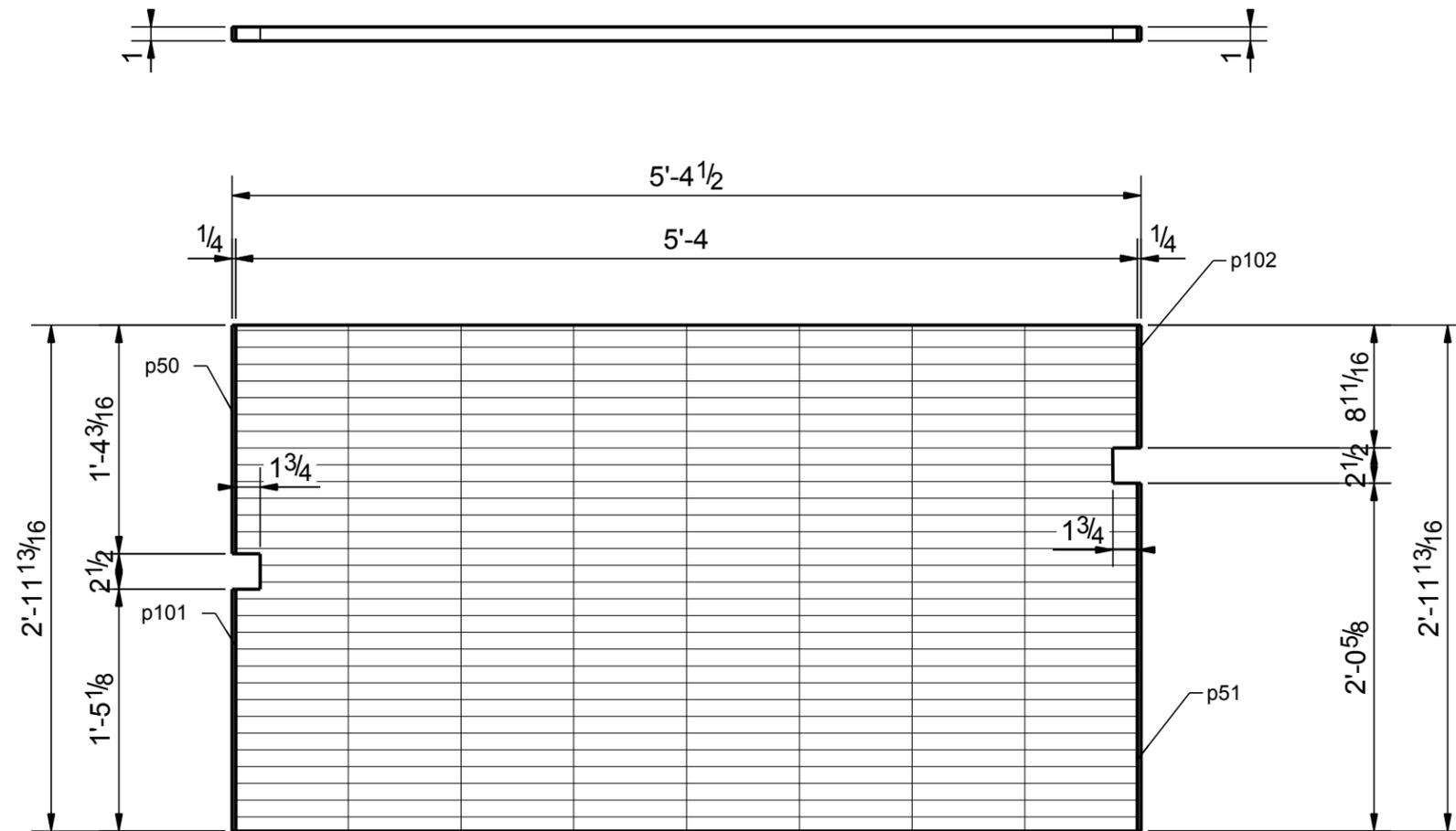
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DESCRIPTION	DRAWN BY	JOB No.
GRATING	JL	4146
	CHECKED BY	DRG No.
		M1103



GRATING 19W4
 B.B. 3/16X1 13/16 C/C
 CROSS BARS 4 C/C
 PLAIN FINISH, SMOOTH SURFACE
 END BANDED

ONE - GRATING - M1104

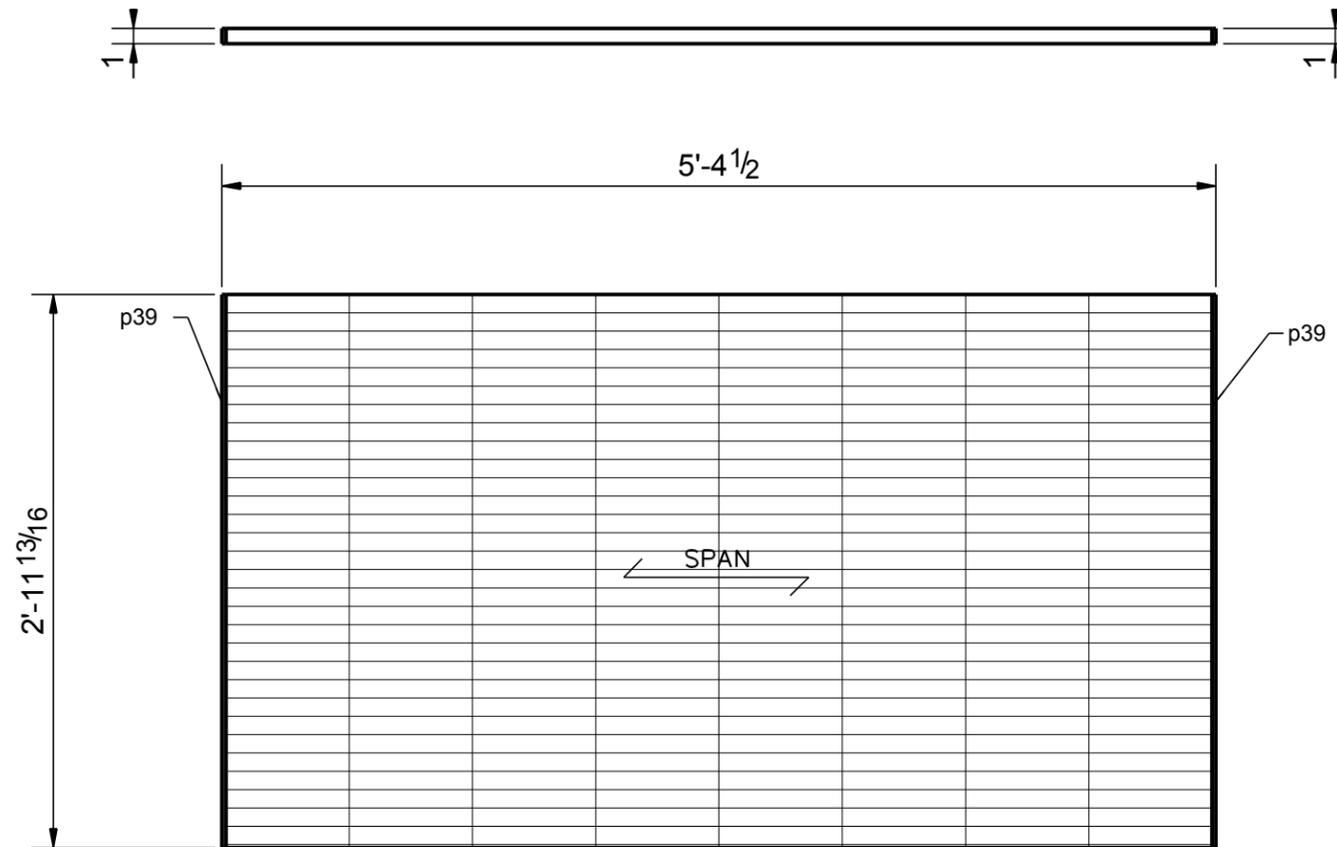
BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	M1104	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
1	1	p50	PL1/4X1	1'-4 3/16"	1	GRAY		A36
1	1	p51	PL1/4X1	2'-0 5/8"	2	GRAY		A36
1	1	p101	PL1/4X1	1'-5 1/8"	1	GRAY		A36
1	1	p102	PL1/4X1	0'-8 11/16"	1	GRAY		A36

DOMESTIC MATERIAL REQUIRED =	NO
BOLTS	TYPE 1 SNUG TIGHT UNO
ELECTRODES	E70XX (LH) UNO
OPEN HOLES	13/16 UNO
SURFACE PREP	SSPC-SP2 UNO
PAINT	GRAY PRIMER UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

3/24/2015		For Approval
3/4/2015		For Approval
DATE	NO.	DESCRIPTION
DESCRIPTION GRATING		DRAWN BY JL
CHECKED BY		JOB No. 4146
		DRG No. M1104



GRATING 19W4
 B.B. 3/16X1 13/16 C/C
 CROSS BARS 4 C/C
 PLAIN FINISH, SMOOTH SURFACE
 END BANDED

ONE - GRATING - M1105

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3/4/2015		For Approval	
DATE	NO.	DESCRIPTION	BY

BILL OF MATERIAL

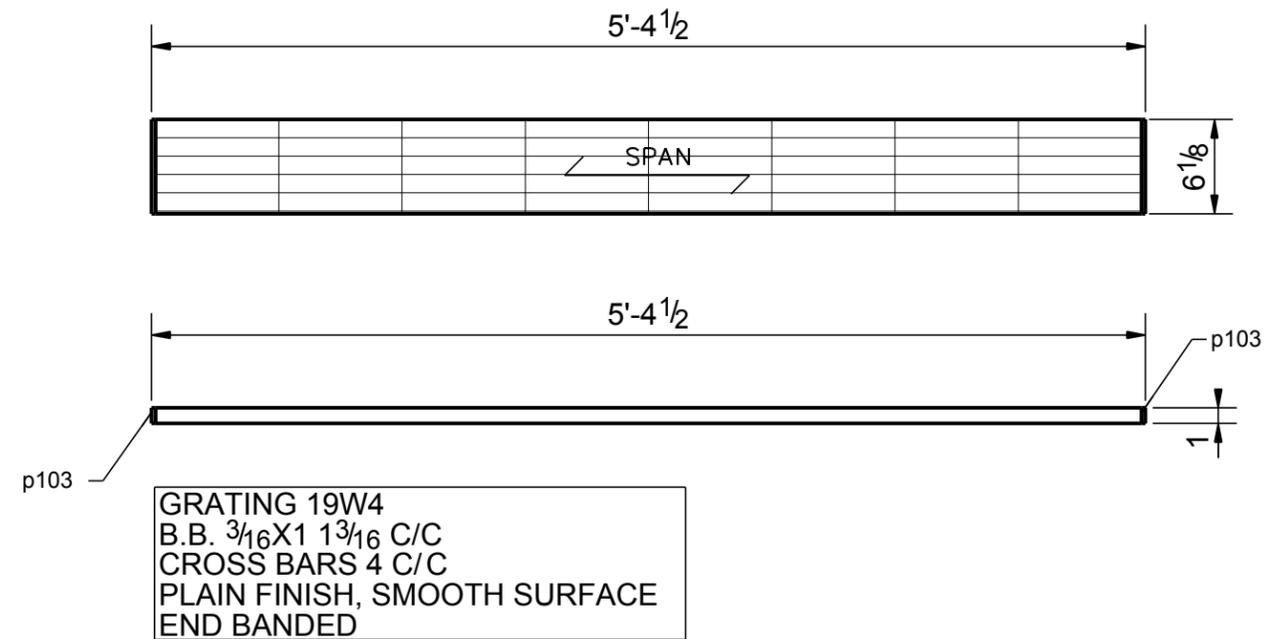
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
1	1	M1105	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
2	2	p39	PL1/4X1	2'-11 13/16"	5	GRAY		A36

DOMESTIC MATERIAL REQUIRED = NO		
BOLTS	TYPE 1 SNUG TIGHT	UNO
ELECTRODES	E70XX (LH)	UNO
OPEN HOLES	13/16	UNO
SURFACE PREP	SSPC-SP2	UNO
PAINT	GRAY PRIMER	UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

	DESCRIPTION	GRATING
	DRAWN BY	JL
	CHECKED BY	
	JOB No.	4146
	DRG No.	M1105

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ONE - GRATING - M1109

BILL OF MATERIAL

Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	M1109	GRATING			GRAY		
1	1		GRT1@3/16_19W4 BOI		0	SQ-1/BEV-1		Mill Finish
2	2	p103	PL1/4X1	0'-6 1/8"	1	GRAY		A36

DOMESTIC MATERIAL REQUIRED = NO		
BOLTS	TYPE 1 SNUG TIGHT	UNO
ELECTRODES	E70XX (LH)	UNO
OPEN HOLES	13/16	UNO
SURFACE PREP	SSPC-SP2	UNO
PAINT	GRAY PRIMER	UNO

PROJECT NAME	TRI LAKES BIOSOLIDS SILO
LOCATION	BRANSON, MO
CONTRACTOR	CARSON-MITCHELL, INC.
ARCHITECT	CARSON-MITCHELL, INC.

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DATE	NO.	DESCRIPTION	BY
			DRAWN BY JL
			CHECKED BY
DESCRIPTION		JOB No. 4146	DRG No. M1109
GRATING			