

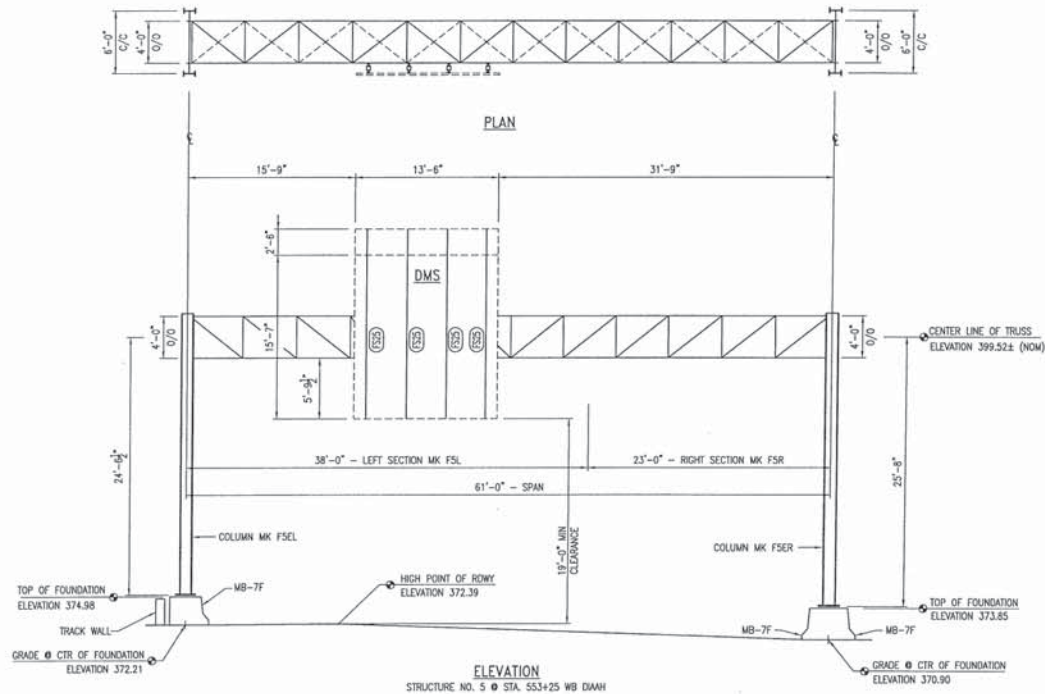
1-17-C099

**DYNAMIC MESSAGING SIGNS FOR DULLES
INTERNATIONAL AIRPORT ACCESS HIGHWAY**

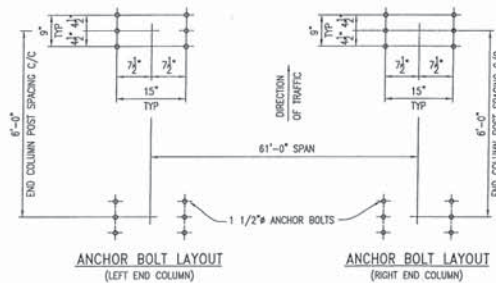
STRUCTURE DRAWINGS

LOCATION 4

LOCATION 5



ELEVATION
STRUCTURE NO. 5 @ STA. 553+25 WB DWAH



ANCHOR BOLT LAYOUT
(LEFT END COLUMN)

ANCHOR BOLT LAYOUT
(RIGHT END COLUMN)

GENERAL NOTES:

STRUCTURE DESIGN PER ASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001, 4TH EDITION WITH (2006) CURRENT INTERIMS.

DESIGN WIND SPEED 90 MPH.

ALL WELDING PER AWS D1.1 (LATEST EDITION).

STRUCTURE, ANCHOR BOLT & FOOTING DESIGN BY HURTT FABRICATING CORP.

FOUNDATION & ROADWAY MEASUREMENTS PROVIDED BY VIRGINIA SIGN AND LIGHTING CO. ON 4-11-16.

THE ELEVATIONS SHOWN ARE FOR REFERENCE AND RELATIONSHIP ONLY.

19'-0" MINIMUM (19'-4" DESIGN) CLEARANCE FROM THE HIGH POINT OF THE ROADWAY TO THE BOTTOM OF THE LOWEST HANGING MEMBER.

MAX. SIGN SUPPORT SPACING = 4'-6" INTERIOR, 2'-3" AT EDGES.

HIGH STRENGTH BOLT CONNECTIONS SHALL BE INSTALLED USING THE "TURN-OF-NUT" METHOD PER SECTION 407.06(B)3 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS 2002.

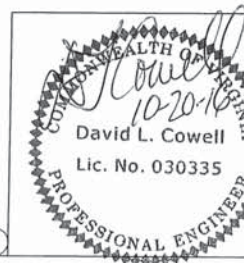
AFTER FINAL ADJUSTMENTS, THE UPPER ANCHOR BOLT NUT SHALL BE TIGHTENED ONE-SIXTH TURN BEYOND SNUG TIGHT PER SECTION 5.17.6.2 OF THE ASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001 (4TH EDITION) INCLUDING UPDATES: 2006. INSTALL SECOND TOP NUT ON EACH ANCHOR BOLT TO SNUG TIGHT. SEE PROJECT SPECIAL PROVISION SECTION 700.04 FOR DOUBLE-NUT PROCEDURES.

REFER TO VDOT ROAD AND BRIDGE SPECIFICATIONS 2007, SECTION 700.02 AND 700.04 FOR GROUNDING REQUIREMENTS.

SEE SHEET E2 FOR TYPICAL DETAILS NOT SHOWN ON THIS SHEET.

THIS SIGN STRUCTURE IS DESIGNED TO ONLY SUPPORT THE SIGN SIZE/AREA SHOWN ON THIS SHOP DRAWING AND ONLY AT THE LOCATION, BOTH HORIZONTAL & VERTICAL, SHOWN.

REV:					
PRINTS ISSUED					
FDR	#	DATE	FDR	#	DATE
PE	5	4-25-16			
PE	6	10-12-16			



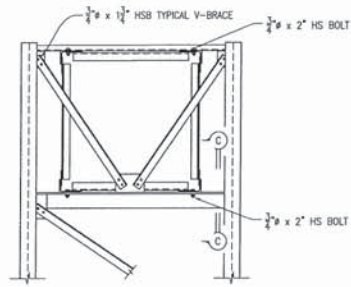
HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NITES, INC.

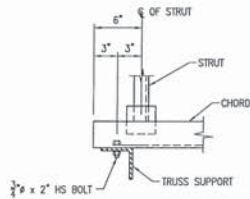
PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 5 @ STA. 553+25 WB DWAH

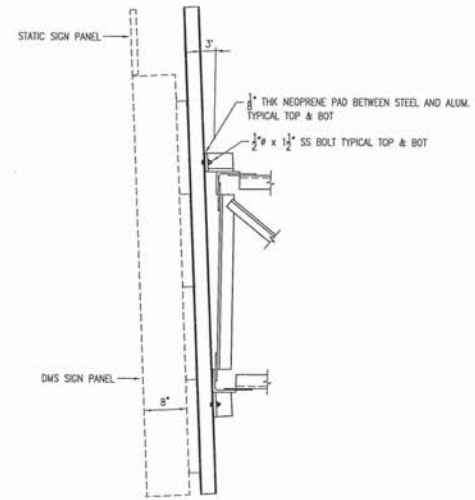
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PRINTED FOR:	DR BY:	CH BY:	JOB NO:	SHEET	
MWA	JIS	ZS	18-6848	Page 4 of 31	



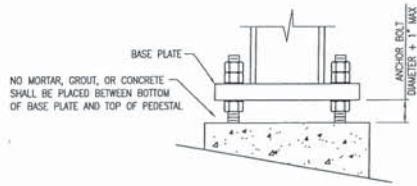
END COLUMN CONNECTION



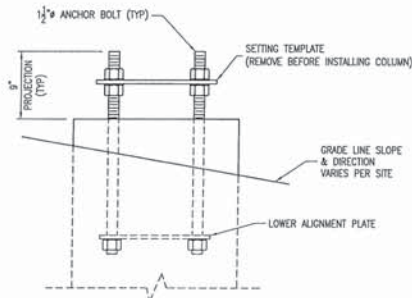
SECTION C-C



TYPICAL SECTION
STATIC PANEL SIGN SUPPORT WITH DMS



BASE PLATE ERECTION



TYPICAL FOUNDATION ELEVATION



REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-25-16			
PE	E	10-12-16			

HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

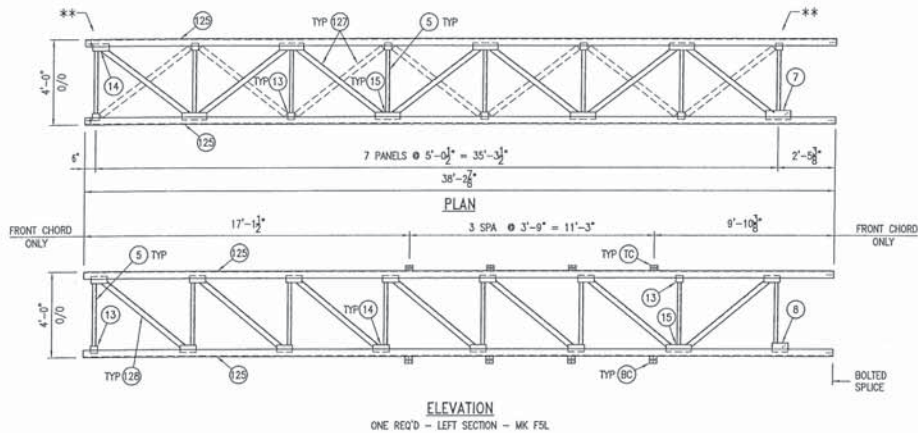
CUSTOMER: BRIGHTER DAYS AND NITES, INC.

PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

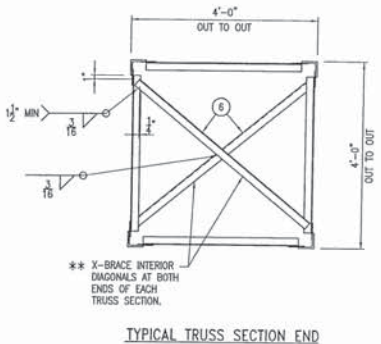
SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 5 @ STA. 553+25 NB DCAH

FILE: 6848 OH E1 | DATE: 4-20-16 | PKG: V

PRINTED FOR: WFA | DR BY: JBS | CH BY: JS | JOB NO: 187-6848 | SHEET 2 of 31

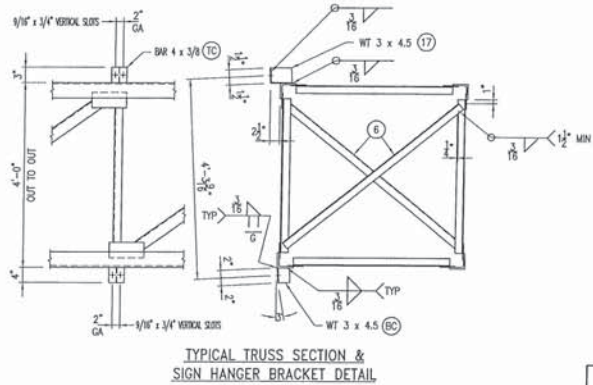
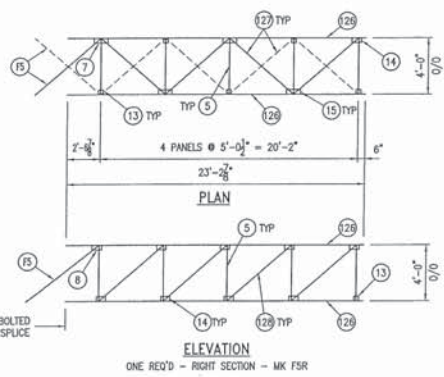


** X-BRACE INTERIOR DIAGONALS AT BOTH ENDS OF EACH TRUSS SECTION.



BILL OF MATERIAL

QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	125	L 3 1/2 x 3 1/2 x 5/16	38'-2 7/8"	50 KSI
4	126	L 3 1/2 x 3 1/2 x 5/16	23'-2 7/8"	50 KSI
4	FP5	L 3 1/2 x 3 1/2 x 5/16	1'-3"	50 KSI
4	F5	L 3 x 3 x 1/4	5'-6 13/16"	
22	127	L 3 x 3 x 1/4	5'-6 1/2"	
22	128	L 2 x 2 x 3/16	5'-6 1/2"	
52	5	L 2 x 2 x 3/16	3'-3"	
17	6	L 2 x 2 x 3/16	4'-10 1/4"	
4	7	FB 5 1/2 x 1/4	1'-3"	
4	8	FB 5 1/2 x 1/4	0'-9"	
32	13	FB 5 x 1/4	0'-5"	
44	14	FB 5 x 1/4	0'-10"	
20	15	FB 5 x 1/4	1'-4"	
4	17	WT 3 x 4.5	0'-4 3/4"	3' BOTH ENDS
4	BC	WT 3 x 4.5	0'-4"	3' BOTH ENDS
4	TC	BAR 4 x 3/8	0'-3"	3' BOTH ENDS
16		5/8" HS BOLT	1 1/2'	
16	ASSY	5/8" HS HEX NUT		
16		5/8" FLAT WASHER		
48		5/8" HS BOLT	2"	
48	SPLUCE	5/8" HS HEX NUT		
96		5/8" FLAT WASHER		
8		3/4" HS BOLT	2"	
8	END COLUMN	3/4" HS HEX NUT		
16		3/4" FLAT WASHER		



SHOP NOTE:
SEE SHEET 2 OF 4 FOR ADDITIONAL DETAILS.

CAMBER NOTE:
PROVIDE 1 1/4" OF CAMBER AT CENTERLINE OF TRUSS

MATERIAL SPECIFICATIONS:
STEEL CHORDS - ASTM A572 OR 50 OR A709 OR 50 (50 KSI MIN YIELD)
OTHER STEEL SHAPES, PLATES AND BARS - ASTM A709 GR 36 OR A36 GALVANIZE AFTER FAB PER ASTM A123
HS BOLTS - ASTM A325 TYPE 1
NUTS - ASTM A563 DII
WASHERS - ASTM F436
GALVANIZE HARDWARE PER ASTM A153

REV.	DATE	DESCRIPTION
FE	4-25-16	
PE	12-15-16	

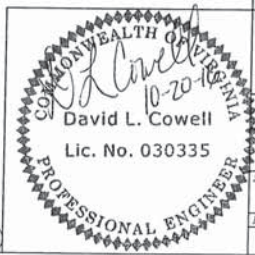
HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NIGHTS, INC.

PROJECT: CONTRACT NO. B-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

SUBJECT: TRUSS FABRICATION DETAILS FOR OVERHEAD SIGN
STRUCTURE LOCATION NO. 5 @ STA. 553+25 WB DAAAH

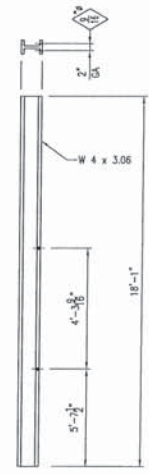
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PRINTED FOR: MWAA DR BY: JBS CH BY: JS JOB NO: HP-6846 SHEET 3 OF 31



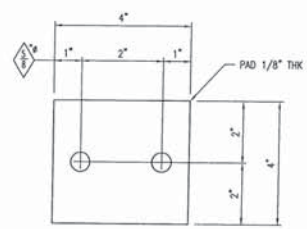
NOT TO SCALE

(F)

BILL OF MATERIAL			
QTY	MK	DESCRIPTION	REMARKS
4	FS25	W 4 x 3.06	18'-1" ALUM
8	PAD	PAD 1/8" x 4"	0'-4" NEOPRENE PAD
16		1/2" SS BOLT	1 1/2" 18-8 or 304
16	MOUNT	1/2" SS HEX NUT	18-8 or 304
32		1/2" SS FLAT WASHER	18-8 or 304



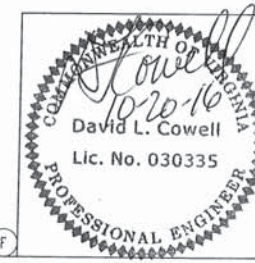
DMS_SIGN_SUPPORT
4 REQ'D - MK FS25



NEOPRENE PAD
8 REQ'D

MATERIAL SPECIFICATIONS:
ALUM SHAPES - ASTM B221 ALLOY 6061-T6 or 6063-T6
SS BOLTS, NUTS & WASHERS SHALL BE AISI TYPE 18-8 or TYPE 304

REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-25-16			
PE	E	10-12-16			



HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NITES, INC.

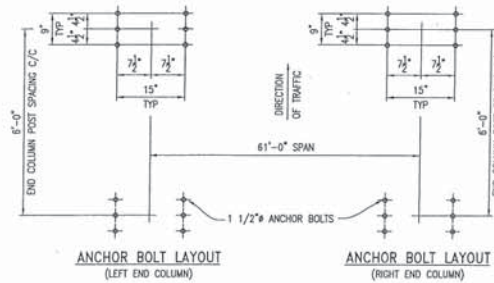
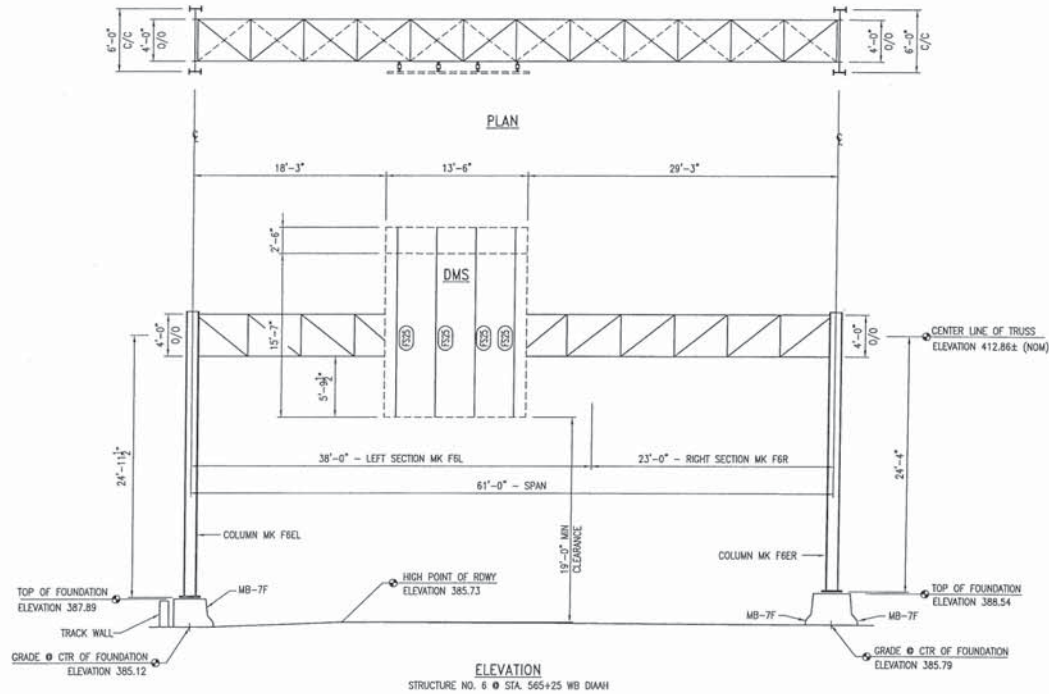
PROJECT: CONTRACT NO. B-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

SUBJECT: FABRICATION DETAILS FOR SIGN SUPPORTS
STRUCTURE LOCATION NO. 5 @ STA. 553+25 WB DIAM

FILE: 6848 OH TRUSS	DATE: 4-20-16	PKG: Y
PRINTED FOR: WAA	DR BY: HRS	CH BY: JS
	JOB NO: 18-0848	SHEET 6 of 31

NOT TO SCALE

LOCATION 6



GENERAL NOTES:

STRUCTURE DESIGN PER AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001, 4TH EDITION WITH (2005) CURRENT INTERIMS.

DESIGN WIND SPEED 90 MPH.

ALL WELDING PER AWS D1.1 (LATEST EDITION).

STRUCTURE, ANCHOR BOLT & FOOTING DESIGN BY HURTT FABRICATING CORP.

FOUNDATION & ROADWAY MEASUREMENTS PROVIDED BY VIRGINIA SIGN AND LIGHTING CO. ON 4-11-16.

THE ELEVATIONS SHOWN ARE FOR REFERENCE AND RELATIONSHIP ONLY. 19'-0" MINIMUM (19'-4" DESIGN) CLEARANCE FROM THE HIGH POINT OF THE ROADWAY TO THE BOTTOM OF THE LOWEST HANGING MEMBER.

MAX. SIGN SUPPORT SPACING = 4'-6" INTERIOR, 2'-3" AT EDGES.

HIGH STRENGTH BOLT CONNECTIONS SHALL BE INSTALLED USING THE "TURN-OF-NUT" METHOD PER SECTION 407.06(B)3 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS 2002.

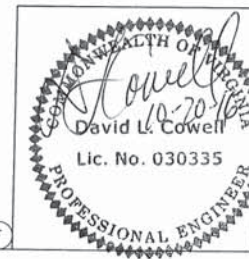
AFTER FINAL ADJUSTMENTS, THE UPPER ANCHOR BOLT NUT SHALL BE TIGHTENED ONE-SIXTH TURN BEYOND SNUG TIGHT PER SECTION 5.17.6.2 OF THE AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001 (4TH EDITION) INCLUDING UPDATES: 2006. INSTALL SECOND TOP NUT ON EACH ANCHOR BOLT TO SNUG TIGHT. SEE PROJECT SPECIAL PROVISION SECTION 700.04 FOR DOUBLE-NUT PROCEDURES.

REFER TO VDOT ROAD AND BRIDGE SPECIFICATIONS 2007, SECTION 700.02 AND 700.04 FOR GROUNDING REQUIREMENTS.

SEE SHEET E2 FOR TYPICAL DETAILS NOT SHOWN ON THIS SHEET.

THIS SIGN STRUCTURE IS DESIGNED TO ONLY SUPPORT THE SIGN SIZE/AREA SHOWN ON THIS SHOP DRAWING AND ONLY AT THE LOCATION, BOTH HORIZONTAL & VERTICAL, SHOWN.

REV.		PRINTS ISSUED			
FOR	#	DATE	FOR	#	DATE
PE	E	4-25-16			
PE	E	9-0-16			



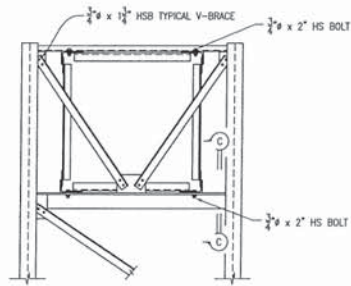
HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NITES, INC.

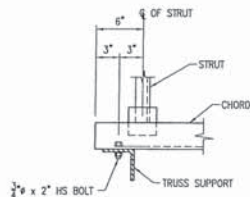
PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LANE PHASE II

SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 6 @ STA. 565+25 WB DAAH

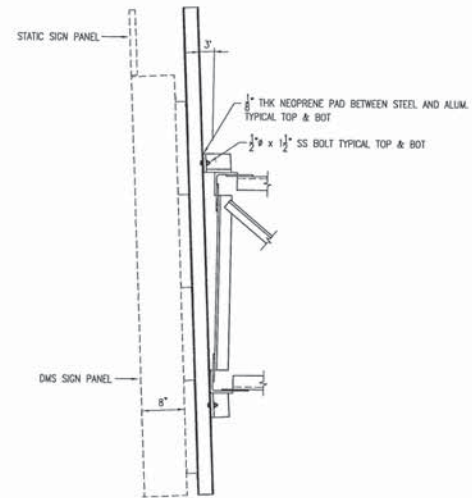
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MMA JBS JS 19-6846 Page 1 of 31



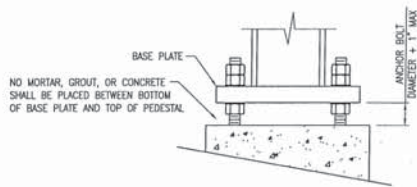
END COLUMN CONNECTION



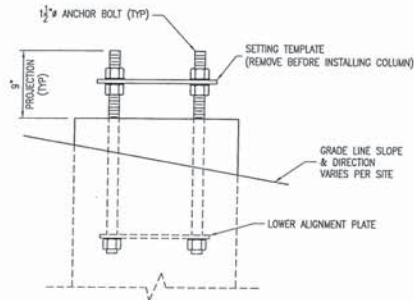
SECTION C-C



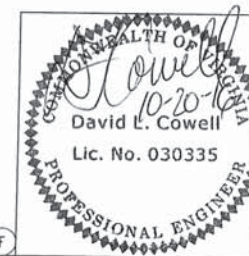
TYPICAL SECTION
STATIC PANEL SIGN SUPPORT WITH DMS



BASE PLATE ERECTION



TYPICAL FOUNDATION ELEVATION



REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-25-16			
PE	E	10-12-16			

HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

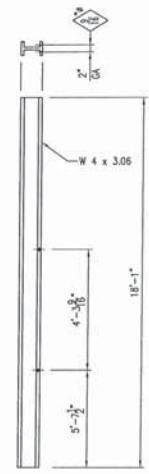
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PROJECT: CONTRACT NO. 8-13-001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LING PHASE II

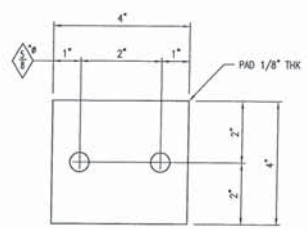
SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 6 @ STA. 565+25 NB DIAM

FILE: 6848 OH E1	DATE: 4-18-16	PKG: U
PRINTED FOR: WMA	DR BY: JBS	CH BY: JS
JOB NO: HF-6848	SHEET	Page 2 of 31

BILL OF MATERIAL				
QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	FS25	W 4 x 3.06	18'-1"	ALUM
8	PAD	PAD 1/8" x 4	0'-4"	NEOPRENE PAD
16	MOUNT	1/2" SS BOLT	1 1/2"	18-8 or 304
16		1/2" SS HEX NUT		18-8 or 304
32		1/2" SS FLAT WASHER		18-8 or 304



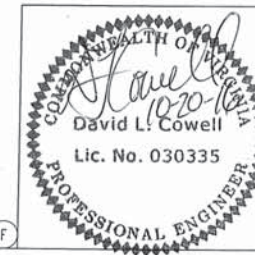
DMS SIGN SUPPORT
4 REQ'D - MK FS25



NEOPRENE PAD
8 REQ'D

MATERIAL SPECIFICATIONS:
ALUM SHAPES - ASTM B221 ALLOY 6061-T6 or 6063-T6
SS BOLTS, NUTS & WASHERS SHALL BE ANSI TYPE 18-8 or TYPE 304

REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-25-16			
PE	E	10-12-16			



HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NIGHTS, INC.

PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

SUBJECT: FABRICATION DETAILS FOR SIGN SUPPORTS
STRUCTURE LOCATION NO. 5 @ STA. 565+25 NB DIAH

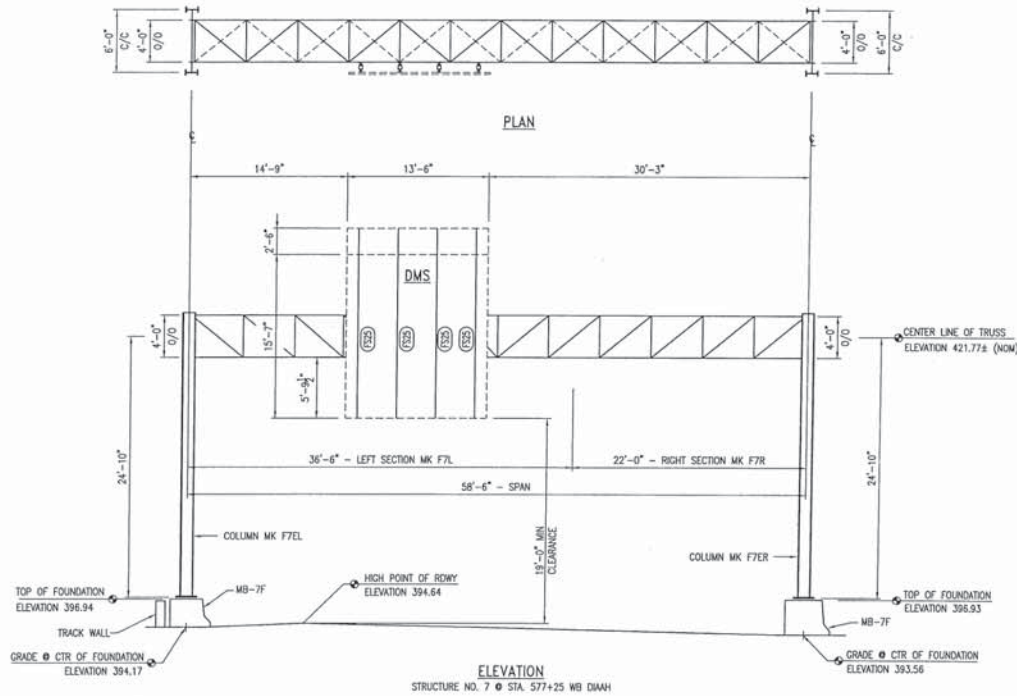
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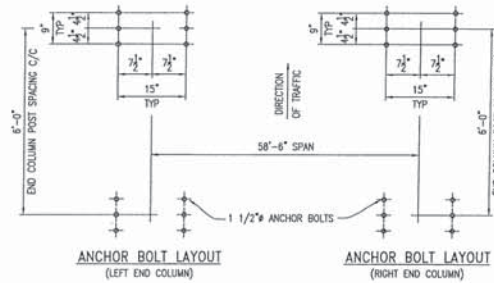
NOT TO SCALE

F

LOCATION 7



GENERAL NOTES:
 STRUCTURE DESIGN PER AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001, 4TH EDITION WITH (2006) CURRENT INTERIMS.
 DESIGN WIND SPEED 90 MPH.
 ALL WELDING PER AWS D1.1 (LATEST EDITION).
 STRUCTURE, ANCHOR BOLT & FOOTING DESIGN BY HURTT FABRICATING CORP.
 FOUNDATION & ROADWAY MEASUREMENTS PROVIDED BY VIRGINIA SIGN AND LIGHTING CO. ON 4-11-16.
 THE ELEVATIONS SHOWN ARE FOR REFERENCE AND RELATIONSHIP ONLY.
 19'-0" MINIMUM (19'-4" DESIGN) CLEARANCE FROM THE HIGH POINT OF THE ROADWAY TO THE BOTTOM OF THE LOWEST HANGING MEMBER.
 MAX. SIGN SUPPORT SPACING = 4'-6" INTERIOR, 2'-3" AT EDGES.
 HIGH STRENGTH BOLT CONNECTIONS SHALL BE INSTALLED USING THE "TURN-OF-NUT" METHOD PER SECTION 407.06(8)3 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS 2002.
 AFTER FINAL ADJUSTMENTS, THE UPPER ANCHOR BOLT NUT SHALL BE TIGHTENED ONE-SIXTH TURN BEYOND SNUG TIGHT PER SECTION 5.17.6.2 OF THE AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001 (4TH EDITION) INCLUDING UPDATES: 2006. INSTALL SECOND TOP NUT ON EACH ANCHOR BOLT TO SNUG TIGHT. SEE PROJECT SPECIAL PROVISION SECTION 700.04 FOR DOUBLE-NUT PROCEDURES.
 REFER TO VDOT ROAD AND BRIDGE SPECIFICATIONS 2007, SECTION 700.02 AND 700.04 FOR GROUNDING REQUIREMENTS.
 SEE SHEET E2 FOR TYPICAL DETAILS NOT SHOWN ON THIS SHEET.
 THIS SIGN STRUCTURE IS DESIGNED TO ONLY SUPPORT THE SIGN SIZE/AREA SHOWN ON THIS SHOP DRAWING AND ONLY AT THE LOCATION, BOTH HORIZONTAL & VERTICAL, SHOWN.



REV:		PRINTS ISSUED	
FOR #	DATE	FOR #	DATE
PE	E 4-25-16		
PE	E 10-12-16		

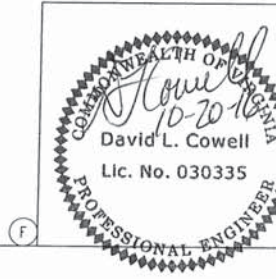
HURTT FABRICATING CORP.
 P.O. BOX 128
 MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NOTES, INC.

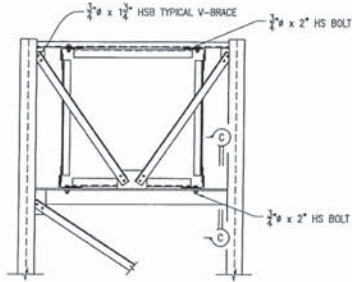
PROJECT: CONTRACT NO. 8-13-C001
 WASHINGTON BUZZES INTERNATIONAL AIRPORT
 SILVER LINE PHASE II

SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
 STRUCTURE NO. 7 @ STA. 577+25 WB DIAH

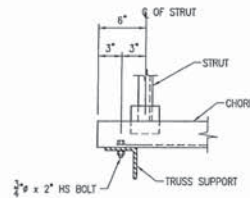
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 PRINTED FOR: WMA DR BY: JBS CH BY: JS JOB NO: 189-6848 SHEET 1 of 1



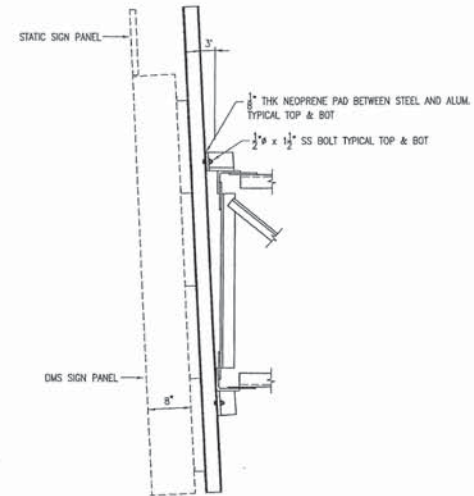
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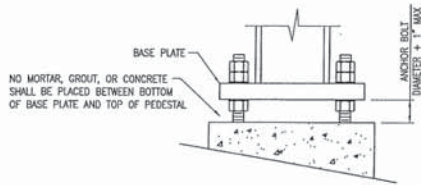
END COLUMN CONNECTION



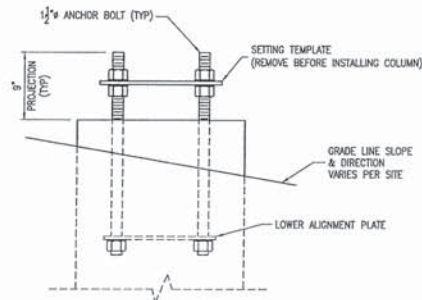
SECTION C-C



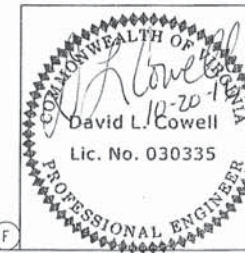
TYPICAL SECTION
STATIC PANEL SIGN SUPPORT WITH DMS



BASE PLATE ERECTION



TYPICAL FOUNDATION ELEVATION



REV:		PRINTS ISSUED			
FOR	DATE	FOR	DATE	FOR	DATE
PE	8-4-25-16				
PE	8-10-12-16				

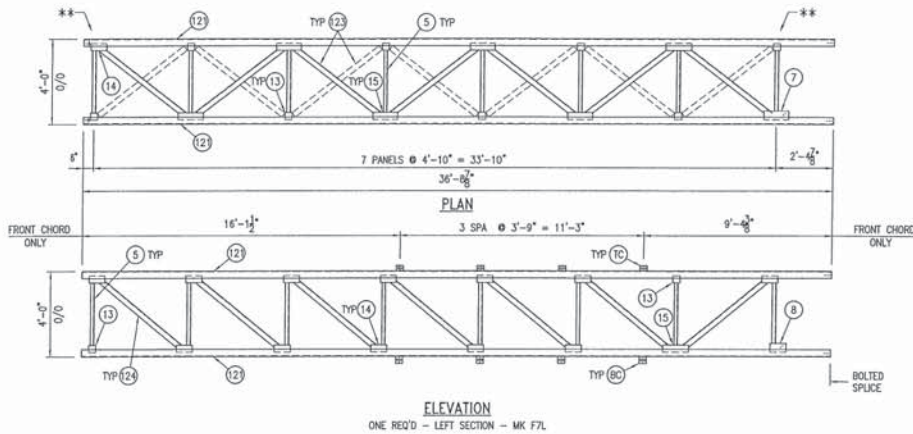
HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NIGHTS, INC.

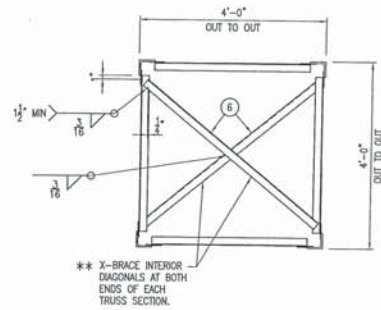
PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LING PHASE II

SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 7 @ STA. 577+25 WB DAAH

FILE: 6848 OH E1	DATE: 4-18-16	PKG: T
PRINTED FOR: WMM	DR BY: JBS	CH BY: JS
JOB NO:	SHEET	Page 2d of 81



*** X-BRACE INTERIOR DIAGONALS AT BOTH ENDS OF EACH TRUSS SECTION.



*** X-BRACE INTERIOR DIAGONALS AT BOTH ENDS OF EACH TRUSS SECTION.

TYPICAL TRUSS SECTION END

BILL OF MATERIAL

QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	121	L 3 1/2 x 3 1/2 x 5/16	36'-8 7/8"	50 KSI
4	122	L 3 1/2 x 3 1/2 x 5/16	22'-2 7/8"	50 KSI
4	FP7	L 3 1/2 x 3 1/2 x 5/16	1'-3"	50 KSI
4	F7	L 3 x 3 x 1/4	5'-4 13/16"	
22	123	L 3 x 3 x 1/4	5'-4 3/8"	
22	124	L 2 x 2 x 3/16	5'-4 3/8"	
52	5	L 2 x 2 x 3/16	3'-5"	
17	6	L 2 x 2 x 3/16	4'-10 1/4"	
4	7	FB 5 1/2 x 1/4	1'-3"	
4	8	FB 5 1/2 x 1/4	0'-9"	
32	13	FB 5 x 1/4	0'-5"	
44	14	FB 5 x 1/4	0'-10"	
20	15	FB 5 x 1/4	1'-4"	
4	17	WT 3 x 4.5	0'-4 3/4"	3' BOTH ENDS
4	BC	WT 3 x 4.5	0'-4"	3' BOTH ENDS
4	TC	BAR 4 x 3/8	0'-3"	
16		5/8" HS BOLT	1 1/2"	
16	ASSY	5/8" HS HEX NUT		
16		5/8" FLAT WASHER		
48		5/8" HS BOLT	2"	
48	SPLICE	5/8" HS HEX NUT		
96		5/8" FLAT WASHER		
8		3/4" HS BOLT	2"	
8	DN COLUMN	3/4" HS HEX NUT		
16		3/4" FLAT WASHER		

SHOP NOTE:

SEE SHEET 2 OF 4 FOR ADDITIONAL DETAILS.

CAMBER NOTE:

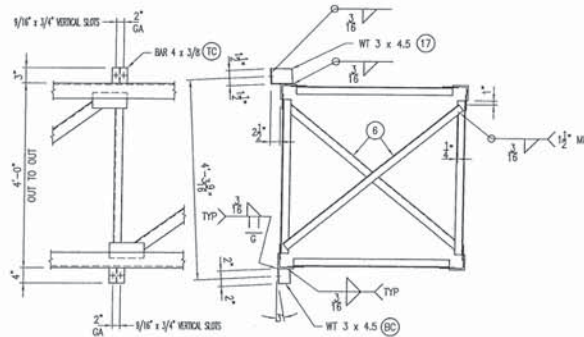
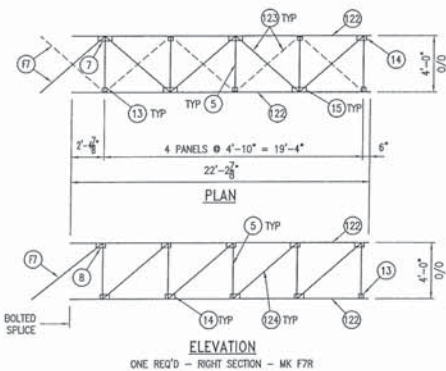
PROVIDE 1 1/4" OF CAMBER AT CENTERLINE OF TRUSS

MATERIAL SPECIFICATIONS:

STEEL CHORDS - ASTM A572 GR 50 or A709 GR 50 (50 KSI MIN YIELD)
OTHER STEEL SHAPES, PLATES AND BARS - ASTM A709 GR 36 or A36
GALVANIZE AFTER FAB PER ASTM A123

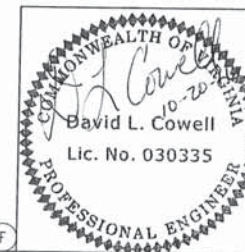
HS BOLTS - ASTM A325 TYPE 1
NUTS - ASTM A563 DN
WASHERS - ASTM F436
GALVANIZE HARDWARE PER ASTM A153

REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	1	4-25-16			
PE	2	5-10-16			



TYPICAL TRUSS SECTION & SIGN HANGER BRACKET DETAIL

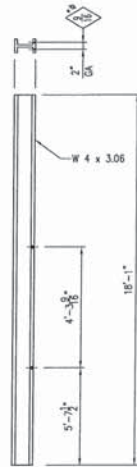
NOT TO SCALE



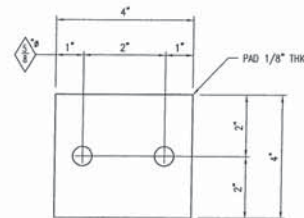
HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER:	BRIGHTER DAYS AND NITES, INC.
PROJECT:	CONTRACT NO. 8-13-C001 WASHINGTON DULLES INTERNATIONAL AIRPORT SILVER LINE PHASE II
SUBJECT:	TRUSS FABRICATION DETAILS FOR OVERHEAD SIGN STRUCTURE LOCATION NO. 7 @ STA. 577+25 WB DAAH
FILE: 6848 OH TRUSS	DATE: 4-18-16
PRINTED FOR: DR BY: JBS	CHK BY: JS
JOB NO.: HP-08	SHEET: 2/10

BILL OF MATERIAL				
QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	FS25	W 4 x 3.06	18'-1"	ALUM
8	PAD	PAD 1/8" x 4	0'-4"	NEOPRENE PAD
16	MOUNT	1/2" x SS BOLT	1 1/2"	18-8 or 304
16		1/2" x SS HEX NUT		18-8 or 304
32		1/2" x SS FLAT WASHER		18-8 or 304



DWS SIGN SUPPORT
4 REQ'D - MK FS25

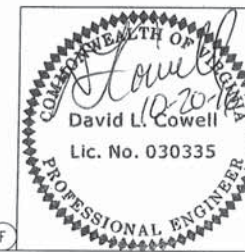


NEOPRENE PAD
8 REQ'D

MATERIAL SPECIFICATIONS:

ALUM SHAPES - ASTM B221 ALLOY 6061-T6 or 6063-T6
SS BOLTS, NUTS & WASHERS SHALL BE A316 TYPE 18-8 or TYPE 304

REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
FE	1	4-25-16			
FE	2	8-10-16			



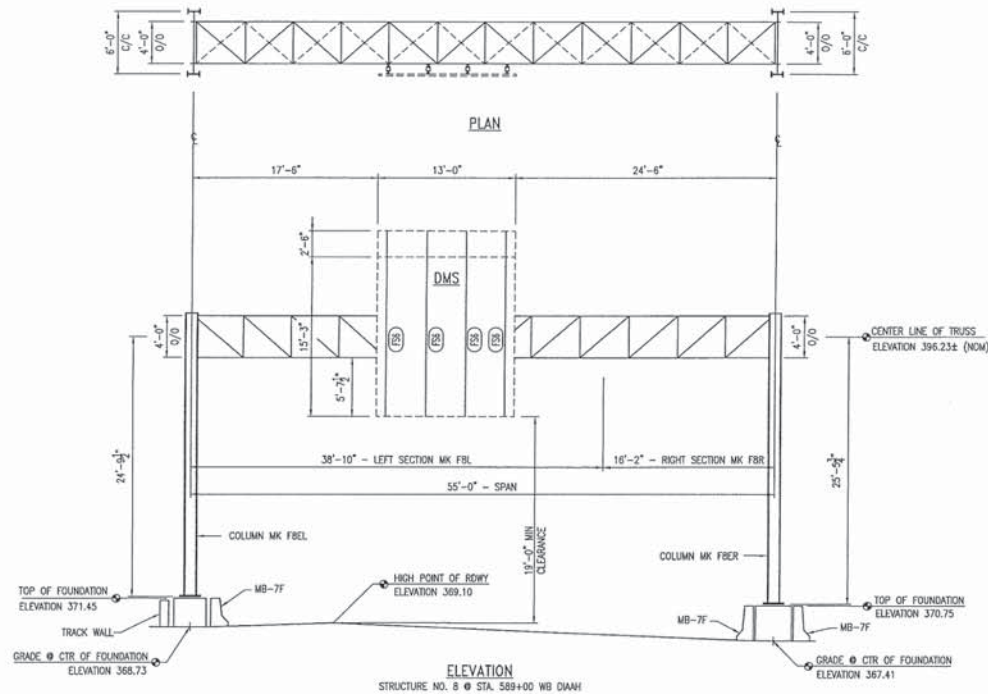
HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NITES, INC.
PROJECT: CONTRACT NO. 8-13-001
WASHINGTON DILLERS INTERNATIONAL AIRPORT
SILVER LINE PHASE II
SUBJECT: FABRICATION DETAILS FOR SIGN SUPPORTS
STRUCTURE LOCATION NO. 7 @ STA. 577+65 NB IAAH

FILE: 0848 OH TRUSS DATE: 4-18-16 PKG: 1
PRINTED FOR: MKA DR BY: JNS CH BY: JS JOB NO: SHEET
HF-0048

NOT TO SCALE

LOCATION 8



GENERAL NOTES:

STRUCTURE DESIGN PER AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001, 4TH EDITION WITH (2006) CURRENT INTERIMS.

DESIGN WIND SPEED 90 MPH.

ALL WELDING PER AWS D1.1 (LATEST EDITION).

STRUCTURE, ANCHOR BOLT & FOOTING DESIGN BY HURTT FABRICATING CORP.

FOUNDATION & ROADWAY MEASUREMENTS PROVIDED BY VIRGINIA SIGN AND LIGHTING CO. ON 3-30-16.

THE ELEVATIONS SHOWN ARE FOR REFERENCE AND RELATIONSHIP ONLY.

15'-0" MINIMUM (19'-6" DESIGN) CLEARANCE FROM THE HIGH POINT OF THE ROADWAY TO THE BOTTOM OF THE LOWEST HANGING MEMBER.

MAX. SIGN SUPPORT SPACING = 4'-6" INTERIOR, 2'-3" AT EDGES.

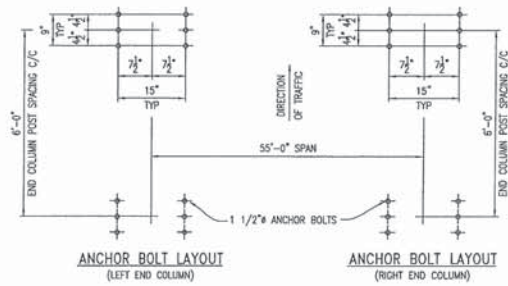
HIGH STRENGTH BOLT CONNECTIONS SHALL BE INSTALLED USING THE "TURN-OF-NUT" METHOD PER SECTION 407.06(B)3 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS 2002.

AFTER FINAL ADJUSTMENTS, THE UPPER ANCHOR BOLT NUT SHALL BE TIGHTENED ONE-SIXTH TURN BEYOND SNUG TIGHT PER SECTION 5.17.8.2 OF THE AASHTO STANDARD SPECS. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2001 (4TH EDITION) INCLUDING UPDATES: 2006. INSTALL SECOND TOP NUT ON EACH ANCHOR BOLT TO SNUG TIGHT. SEE PROJECT SPECIAL PROVISION SECTION 700.04 FOR DOUBLE-NUT PROCEDURES.

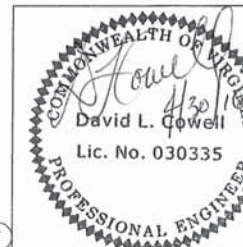
REFER TO VDOT ROAD AND BRIDGE SPECIFICATIONS 2007, SECTION 700.02 AND 700.04 FOR GROUNDING REQUIREMENTS.

SEE SHEET E2 FOR TYPICAL DETAILS NOT SHOWN ON THIS SHEET.

THIS SIGN STRUCTURE IS DESIGNED TO ONLY SUPPORT THE SIGN SIZE/AREA SHOWN ON THIS SHOP DRAWING AND ONLY AT THE LOCATION, BOTH HORIZONTAL & VERTICAL, SHOWN.



REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	5	4-13-18			



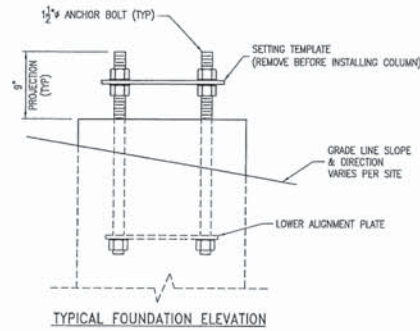
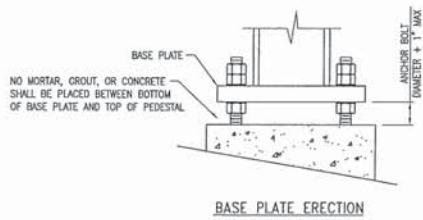
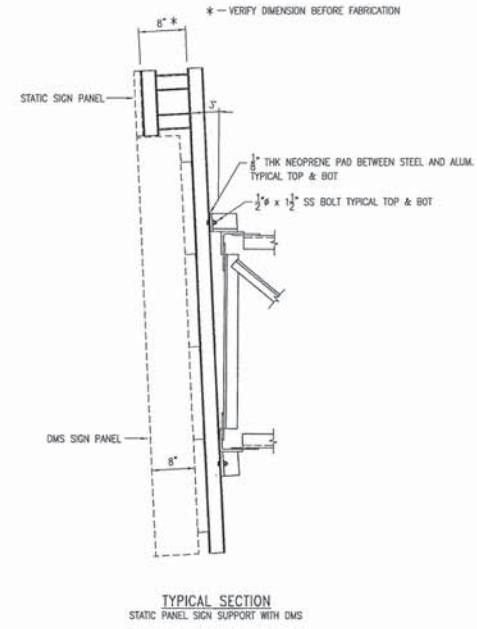
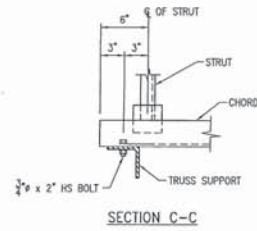
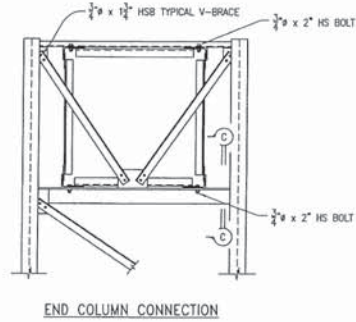
HURTT FABRICATING CORP.
 P.O. BOX 128
 MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NTES, INC.

PROJECT: CONTRACT NO. 8-13-C001
 WASHINGTON DULLES INTERNATIONAL AIRPORT
 SILVER LINE PHASE II

SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
 STRUCTURE NO. 8 @ STA. 589+00 WB DIAM

FILE: 6848 OH EY	DATE: 4-11-18	PKG: H
PRINTED FOR: DR BY: MWA	CH BY: JRS	JOB NO: 18-044
		SHEET: 1



REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-13-16			

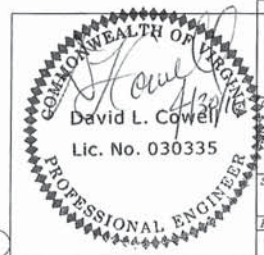
HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER: BRIGHTER DAYS AND NIGHTS, INC.

PROJECT: CONTRACT NO. 8-13-001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II

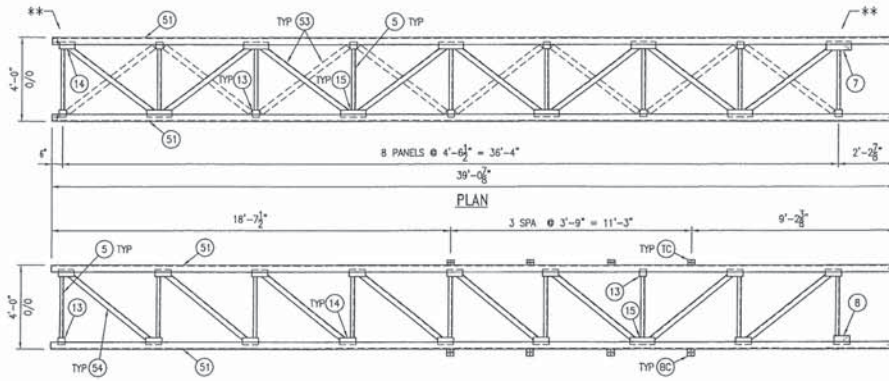
SUBJECT: ERECTION DIAGRAM FOR OVERHEAD SIGN
STRUCTURE NO. 8 @ STA. 589+00 WB DMSH

FILE: 6848 OH E1 DATE: 4-11-16 PKG: H
PRINTED FOR: NRAM DR BY: JBS CH BY: JOB NO: SHEET 104-6848 - 5



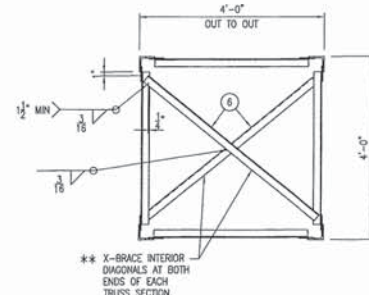
BILL OF MATERIAL

QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	51	L 3 1/2 x 3 1/2 x 5/16	39'-0 7/8"	50 KSI
4	52	L 3 1/2 x 3 1/2 x 3/16	16'-4 7/8"	50 KSI
4	FB8	L 3 1/2 x 3 1/2 x 5/16	1'-3"	50 KSI
4	7	FB 5 1/2 x 1/4	1'-3"	
4	8	FB 5 1/2 x 1/4	0'-9"	
32	13	FB 5 x 1/4	0'-5"	
44	14	FB 5 x 1/4	0'-10"	
20	15	FB 5 x 1/4	1'-4"	
4	17	WT 3 x 4.5	0'-4 3/4"	3' BOTH ENDS
4	BC	WT 3 x 4.5	0'-4"	3' BOTH ENDS
4	1C	BAR 4 x 3/8	0'-3"	
16		5/8" HS BOLT	1 1/2"	
16	ASSY	5/8" HS HEX NUT		
16		5/8" FLAT WASHER		
48		5/8" HS BOLT	2"	
48	SPLICE	5/8" HS HEX NUT		
96		5/8" FLAT WASHER		
8		3/4" HS BOLT	2"	
8	DRG COLUMN	3/4" HS HEX NUT		
16		3/4" FLAT WASHER		



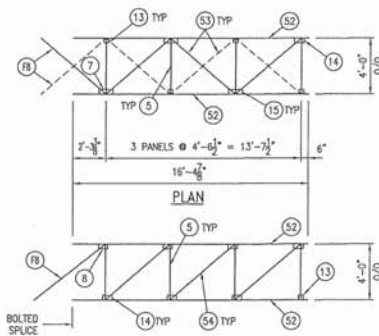
ELEVATION
ONE REQ'D - LEFT SECTION - MK FBL

** X-BRACE INTERIOR
DIAGONALS AT BOTH
ENDS OF EACH
TRUSS SECTION.

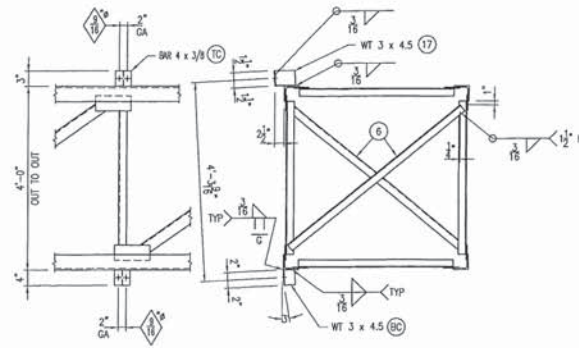


TYPICAL TRUSS SECTION END

** X-BRACE INTERIOR
DIAGONALS AT BOTH
ENDS OF EACH
TRUSS SECTION.



ELEVATION
ONE REQ'D - RIGHT SECTION - MK FBL



TYPICAL TRUSS SECTION &
SIGN HANGER BRACKET DETAIL

SHOP NOTE:

SEE SHEET 2 OF 4 FOR ADDITIONAL DETAILS.

CAMBER NOTE:

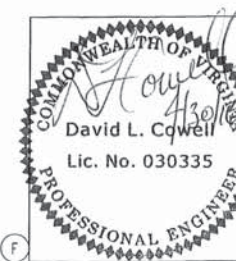
PROVIDE 1" OF CAMBER AT CENTERLINE OF TRUSS

MATERIAL SPECIFICATIONS:

STEEL CHORDS - ASTM A572 GR 50, A529 GR 50 or A709 GR 50 (50 KSI MIN YIELD)
OTHER STEEL SHAPES, PLATES AND BARS - ASTM A709 GR 35 or A36 GALVANIZE AFTER FAB PER ASTM A123

HS BOLTS - ASTM A325 TYPE 1
NUTS - ASTM A563 D1
WASHERS - ASTM F436
GALVANIZE HARDWARE PER ASTM A153

REV:	PRINTS ISSUED				
FOR	DATE	FOR	DATE	FOR	DATE
PE	8	4-13-18			



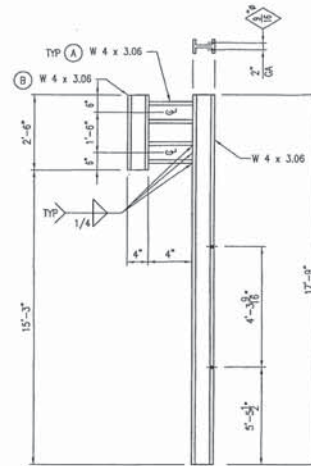
NOT TO SCALE

HURT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

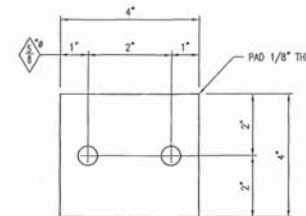
CUSTOMER: BRIGHTER DAYS AND NYTES, INC.
PROJECT: CONTRACT NO. 8-13-C001
WASHINGTON DULLES INTERNATIONAL AIRPORT
SILVER LINE PHASE II
SUBJECT: TRUSS FABRICATION DETAILS FOR OVERHEAD SIGN
STRUCTURE LOCATION NO. 8 @ STA. 589+00 WB DLAH

FILE:	6848 OH TRUSS	DATE:	4-11-18	PKG:	H
PRINTED FOR:	DR BY:	CH BY:	JOB NO.:	SHEET	
MMAL	JRS	IS	HC-6848	1	OP 4

BILL OF MATERIAL				
QTY	MK	DESCRIPTION	LENGTH	REMARKS
4	F58	W 4 x 3.06	17'-3"	ALUM
8	A	W 4 x 3.06	0'-4"	ALUM
4	B	W 4 x 3.06	2'-6"	ALUM
8	PAD	PAD 1/8" x 4	0'-4"	NEOPRENE PAD
16		1/2" # SS BOLT	1 1/2"	18-8 or 304
16	MOUNT	1/2" # SS HEX NUT		18-8 or 304
32		1/2" # SS FLAT WASHER		18-8 or 304



DMS SIGN SUPPORT
4 REQ'D - MK F58



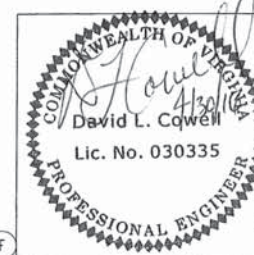
NEOPRENE PAD
8 REQ'D

NOT TO SCALE

MATERIAL SPECIFICATIONS:

ALUM SHAPES - ASTM B221 ALLOY 6061-T6 or 6063-T6
SS BOLTS, NUTS & WASHERS SHALL BE A316 TYPE 18-8 or TYPE 304

REV:					
PRINTS ISSUED					
FOR	#	DATE	FOR	#	DATE
PE	E	4-13-16			



HURTT FABRICATING CORP.
P.O. BOX 128
MARCELINE, MO 64658

CUSTOMER:		BRIGHTER DAYS AND NIGHTS, INC.			
PROJECT:		CONTRACT NO. 8-13-C001 WASHINGTON DOLLEY INTERNATIONAL AIRPORT SILVER LINS PHASE II			
SUBJECT:		FABRICATION DETAILS FOR SIGN SUPPORTS STRUCTURE LOCATION NO. 8 @ STA. 589+00 WB DLAH			
FILE:	6848 OH TRUSS	DATE:	4-11-16	PKG:	H
PRINTED FOR:	DR BY:	CH BY:	JOB NO.:	SHEET:	
MWAA	JRS		18-048	4 OF 4	