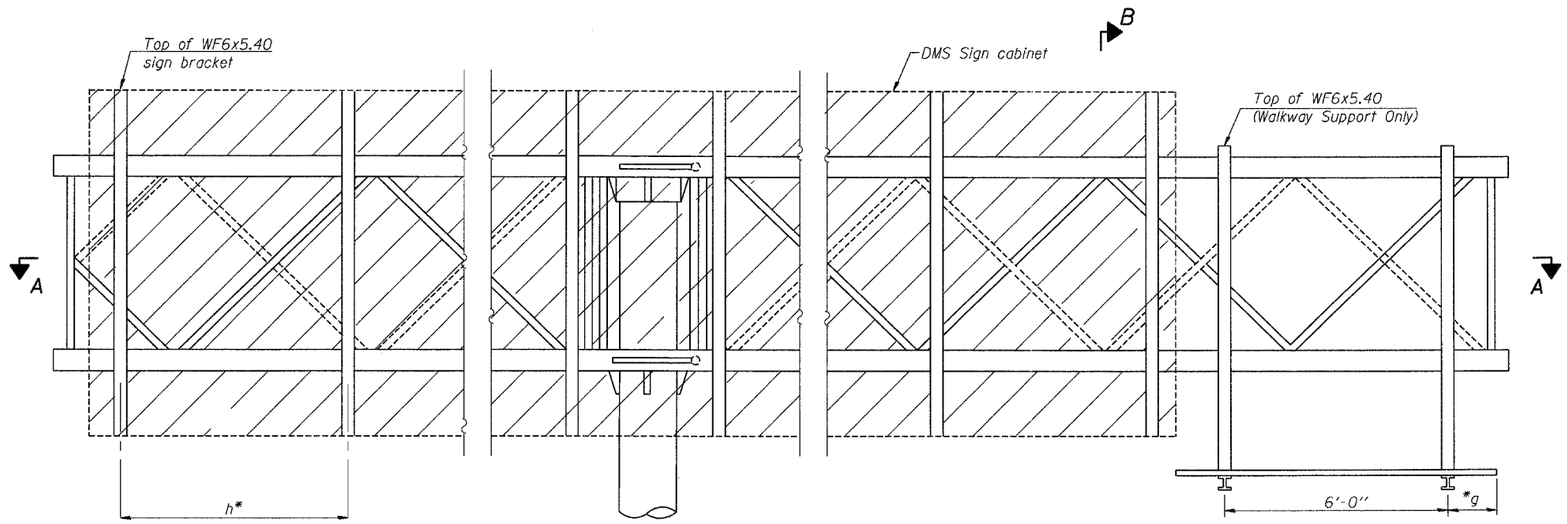
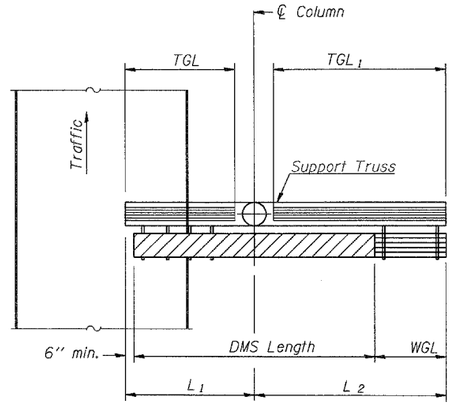


Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

TYPICAL FRONT ELEVATION

With handrail omitted for clarity.
For section B-B see base sheet OSF-A-7-DMS



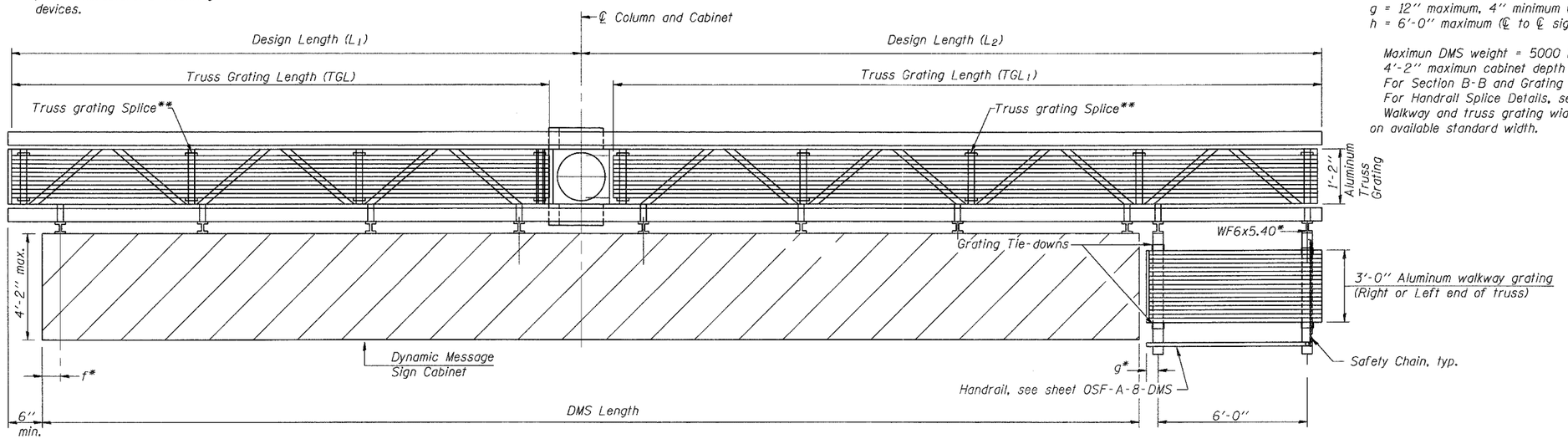
PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)
Butterfly may be located in shoulder area.
Walkway may be located at right or left end of truss.

Notes:
Space walkway brackets and sign brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40

Maximun DMS weight = 5000 lbs.
4'-2" maximun cabinet depth includes depth of cabinet plus connection to WF6x5.40
For Section B-B and Grating Splice Details, see Base Sheet OSF-A-7-DMS.
For Handrail Splice Details, see Base Sheet OSF-A-8-DMS.
Walkway and truss grating width dimensions are nominal and may vary ±½" based on available standard width.



BRACKET TABLE

WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
** Grating splices and handrail joints placed as needed. Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in Butterfly Sign Structure.

$$TGL = L_1 \text{ (or } L_2\text{)} - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

Structure Number	Station	DMS Length	TGL	TGL 1	Walkway Location (Right or Left end of Truss)
8F082I070R000.9	116+90	30'-8"	13'-3"	19'-5"	Left

OSF-A-6-DMS 1-20-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JLR	REVISED -
		DRAWN - JLR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

BUTTERFLY SIGN STRUCTURES – ALTERNATE
ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	224
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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