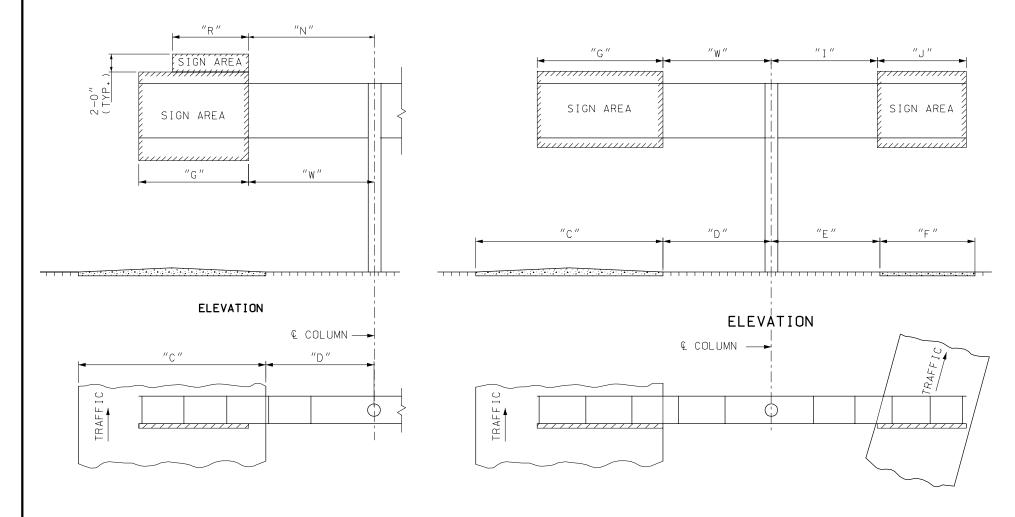
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



PLAN CANTILEVER DVERHEAD SIGN TRUSS

PLAN BUTTERFLY OVERHEAD SIGN TRUSS

						OVE	RHE	AD S	IGN	DIM	ENSI	ONS							
SIGN	STATION	TYPE	SIGN BUTTER FLY	COL.	COL.	ROADV	VAY DE	ESCRI	PTION			S	IGN S	PACIN	IG			CONC	RE TE
NO.	NUMBER	CANT.	FLY	Н	TYPE	"C"	″D″	"E"	"F"	"G"	H+.	"W"	" I "	″J ″	H+.	"R"	"N "	FOOT (CU.	YD.

0-01-2005	ROUTE	MO	DISTRICT	SHEET NO.	
	JOB NO.				
	CONTRAC	T ID.			
	PROJECT	NO.			
	COUNTY				DATE

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS. LUMINAIRES AND TRAFFIC SIGNALS - 2001 AND LATEST INTERIM.

STRUCTURAL CARBON STEEL (ASTM A709 GRADE 36) fy = 36,000 psi.

REINFORCING STEEL (GRADE 60) fY = 60,000 psi.

CLASS B CONCRETE f'c = 3,000 psi.

EFFECTIVE 1

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".

MINIMUM CLEARANCE TO REINFORCING SHALL BE 3", UNLESS OTHER-WISE SHOWN.

TRUSS SHALL BE ALL WELDED CONSTRUCTION, ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE A.W.S. D1.5 BRIDGE WELDING CODE AS AMMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2
STRUCTURAL WELDING CODE — ALUMINUM, EXCEPT AS AMENDED BY
SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION
COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE 3" UNLESS OTHERWISE SHOWN.

COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111 ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 1081 AND 903 COLOR OF THE FINISHED COAT SHALL BE GRAY.

PAYMENT FOR GALVANIZING, CLEANING AND COATING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SIGN TRUSS. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF COATING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

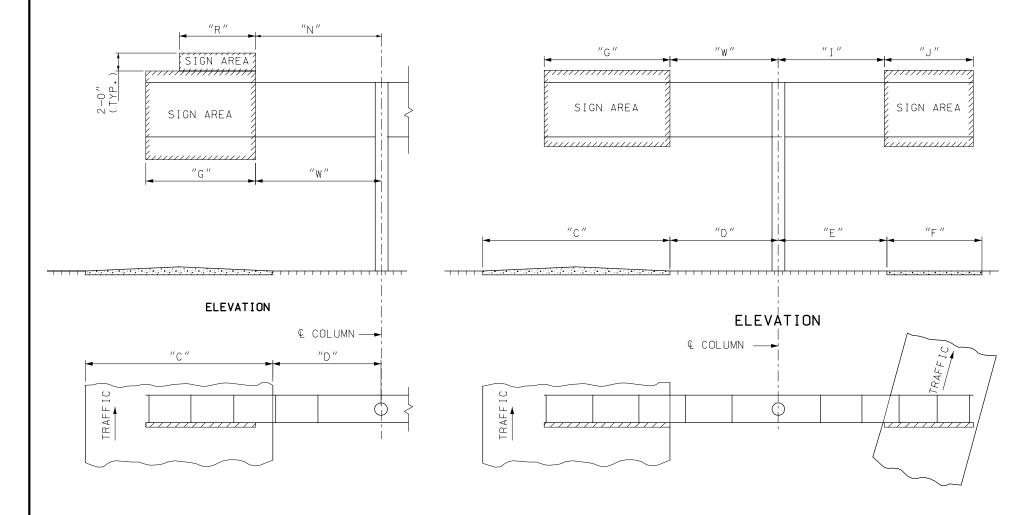
PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATA SHEET (SEE STANDARD 903,12)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



PLAN
CANTILEVER OVERHEAD SIGN TRUSS

PLAN Butterfly overhead sign truss

						OVE	RHE	AD S	IGN	DIM	ENSI	ONS						
SIGN	STATION	TYPE	SIGN	COL.	CDL.	ROADV	VAY DE	ESCRI	PTION			S	IGN S	PACIN	IG			CONCRET FOOTING (CU. m
NO.	NUMBER	CANT.	BUTTER FLY	Н	TYPE	"C"	"D"	"E"	"F "	"G "	Н+.	"W"	" I "	″J ″	H+.	"R"	"N "	(CU. m

EFFECTIVE 10-01-2005	ROUTE	MO MO	DISTRICT	SHEET NO.	
	JOB NO.				
	CONTRAC	T ID.			
	PROJECT	NO.			
	COUNTY				DATE

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS. LUMINAIRES AND TRAFFIC SIGNALS — 2001 AND LATEST INTERIM.

STRUCTURAL CARBON STEEL (ASTM A709 GRADE 250) fy = 250 mPa.

REINFORCING STEEL (GRADE 420) fy= 420 mPa.

CLASS B CONCRETE f'c = 21 mPa.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 5.35 m.

MINIMUM CLEARANCE TO REINFORCING SHALL BE 75 mm, UNLESS OTHERWISE SHOWN.

TRUSS SHALL BE ALL WELDED CONSTRUCTION, ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE A.W.S. D1.5 BRIDGE WELDING CODE AS AMMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2 STRUCTURAL WELDING CODE — ALUMINUM, EXCEPT AS AMENDED BY SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE 5 mm UNLESS OTHERWISE SHOWN

COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111 ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 1081 AND 903 COLOR OF THE FINISHED COAT SHALL BE GRAY.

PAYMENT FOR GALVANIZING, CLEANING AND COATING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SIGN TRUSS. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF COATING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATA SHEET

(SEE STANDARD M903.12) M-D-32