ENGINEERING CONSTRUCTION CONTRACTING SECTION
MONTANA DEPARTMENT OF TRANSPORTATION

Sign Design Calculations

SIGN DESIGN CALCS The requested files are only design files. The Department cannot guarantee the accuracy of the electronic data, particularly as it may be called up by your computer, nor does any data in these files supersede the data in the contract documents.

In addition, the Department will not make any revisions to the electronic files prior to award. Changes needed via change ordered work, or changes that are made during construction to fit field conditions, will be provided at that time. See the requirements of Subsection 619.03.2.



Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2023 Edition

Panel Style: guide_fwy_gore.ssi
Dimensions are in inches

SIGN NUMBER	E-362		
WIDTH x HEIGHT	11'-0" x 2'-6"	27.5 Sq.Ft.	
BORDER WIDTH	2"	MARGIN 0"	
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		
STATION(S) 97+84 RT. 186+39 LT.			

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X) — REDUCTION: 10% 20% 30% — LENGTH — SERIES/SIZE

																																	LENGTH	SERIES/SIZE
	E	X	I	T		3	6	2																											E 2000
21.4	9.2	11.1	3.8	7.5	15	15.2	15.2	12.2	21.4																								89.2	10,15

SHEET NO.
SDC-1

SIGN DESIGN CALCULATIONS

DESIGNED BY	S. PRATT	05/2026	
REVIEWED BY	R. LUBBERS	05/2026	
CHECKED BY	H. NICHOLAS	05/2026	
PROJECT NAME	DEHART INTERCHANGE - E & W		
COUNTY	SWEET GRASS		
PROJECT ID	IM 90-7(121)360		
UPN	10069000		

MONTANA
Department of Transportation

SIGNING PLANS

10069000SISDCZ01.DWG

5/14/2026 1:41 PM



Panel Style: guide_fwy_gore.ssi
Dimensions are in inches

Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2023 Edition

SIGN NUMBER	G6-32	
WIDTH x HEIGHT	11'-0" x 6'-0"	66 Sq.Ft.
BORDER WIDTH	2"	MARGIN 0"
CORNER RADIUS	9"	ALUMINUM TYPE
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	
STATION(S) 97+84 RT. 186+39 LT.		

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	D	e		H	a	r	t																						LENGTH	SERIES/SIZE
8	20.4	13.2	16.8	21.2	21.2	12.8	10.4	8																					116	EM 2000 20/15
	1/2		M	I	L	E																								E 2000
31	22	15	12	4.4	9.2	7.5	31																						70.1	15,10

SHEET NO.
SDC-2

SIGN DESIGN CALCULATIONS

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

DESIGNED BY		DRAWN BY		CHECKED BY	
S. PRATT	05/2026	REVIEWED BY	05/2026	H. NICHOLAS	05/2026

10069000\SIDC\Z01.DWG

MONTANA
Department of Transportation

SIGNING PLANS

5/14/2026 1:41 PM



BORDER
R=6 in
TH=1.5 in

Panel Style: guide_fwy_gore.ssi
Dimensions are in inches

Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2023 Edition

SIGN NUMBER	EG-362		
WIDTH x HEIGHT	8'-0" x 5'-0"	40 Sq.Ft.	
BORDER WIDTH	1-1/2"	MARGIN 0"	
CORNER RADIUS	6"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

STATION(S) 131+91 RT. 154+63 LT.

SYMBOL	ROT	X	Y	WID	HT
EG-#Arrow_InterMajor	315	66.7	5.7	18.3	29.3

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	E	X	I	T																									LENGTH	SERIES/SIZE
25.8	12.8	15.8	6.75	9	25.8																								44.375	E 2000 12
	3	6	2																											E 2000
6	17.6	17.6	14.6	40.1																									49.9	18

SHEET NO.
SDC-3

SIGN DESIGN CALCULATIONS

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

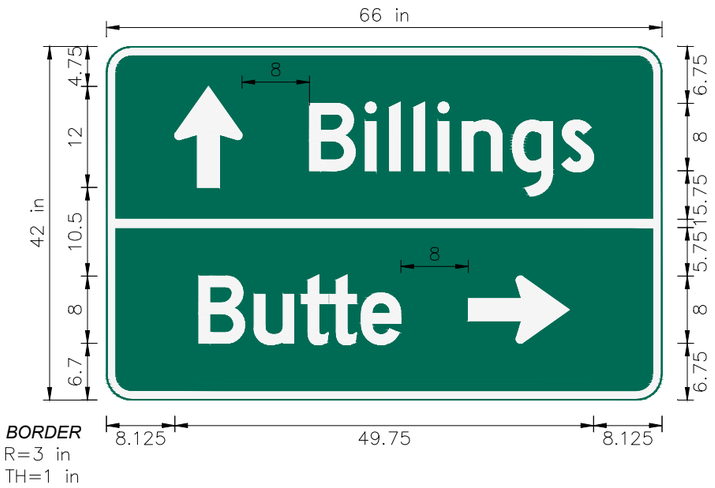
DESIGNED BY	DATE
S. PRATT	05/2026
REVIEWED BY	05/2026
R. LUBBERS	
CHECKED BY	05/2026
H. NICHOLAS	

10069000SISDCZ01.DWG

MONTANA
Department of Transportation

SIGNING PLANS

5/14/2026 1:41 PM



Panel Style: guide_con_destination.ssi
Dimensions are in inches

Panel Style: guide_con_destination.ssi
M.U.T.C.D.: 2023 Edition

SIGN NUMBER	G9-57		
WIDTH x HEIGHT	5'-6" x 3'-6"	19.25 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

STATION(S) 143+01 LT.

SYMBOL	ROT	X	Y	WID	HT
8x12	0	8.125	25.25	8	12
8x12	270	43	6.75	8	12

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	B	i	l	l	i	n	g	s																							D 2000
24.125	6.6	2.875	2.875	2.875	2.875	6	6	3.8	8.125																					33.75	8/6
	B	u	t	t	e																										D 2000
11	6.6	5.6	3.4	3.8	4.7	31																								24	8/6

SHEET NO.
SDC-4

SIGN DESIGN CALCULATIONS

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

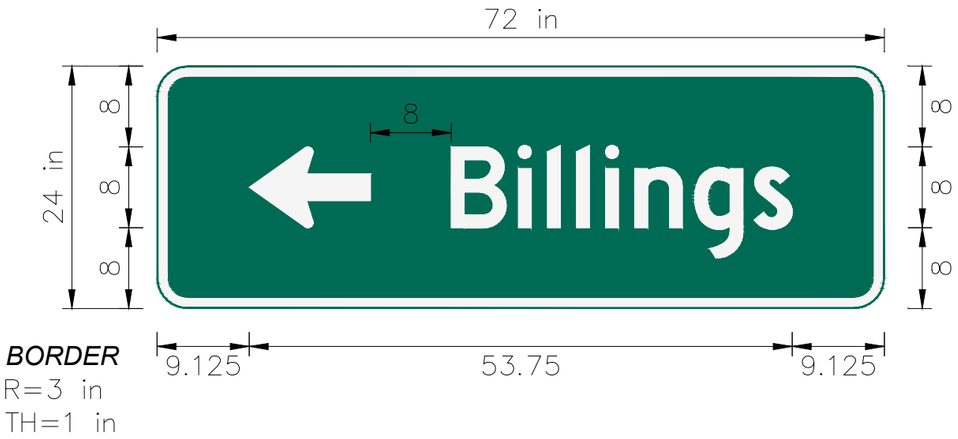
DESIGNED BY	DATE
S. PRATT	05/2026
REVIEWED BY	05/2026
R. LUBBERS	
CHECKED BY	05/2026
H. NICHOLAS	

10069000SISDCZ01.DWG

MONTANA
Department of Transportation

SIGNING PLANS

5/14/2026 1:41 PM



Panel Style: guide_con_destination.ssi
Dimensions are in inches

Panel Style: guide_con_destination.ssi
M.U.T.C.D.: 2023 Edition

SIGN NUMBER	G8-53		
WIDTH x HEIGHT	6'-0" x 2'-0"	12 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

STATION(S) 143+12 RT.

SYMBOL	ROT	X	Y	WID	HT
8x12	90	9.125	8	8	12

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																															LENGTH	SERIES/SIZE
	B	i	l	l	i	n	g	s																							D 2000
29.125	6.6	2.875	2.875	2.875	2.875	6	6	3.8	9.125																				33.75	8/6

FDR

MONTANA
Department of Transportation

SIGNING PLANS

5/14/2026 1:41 PM

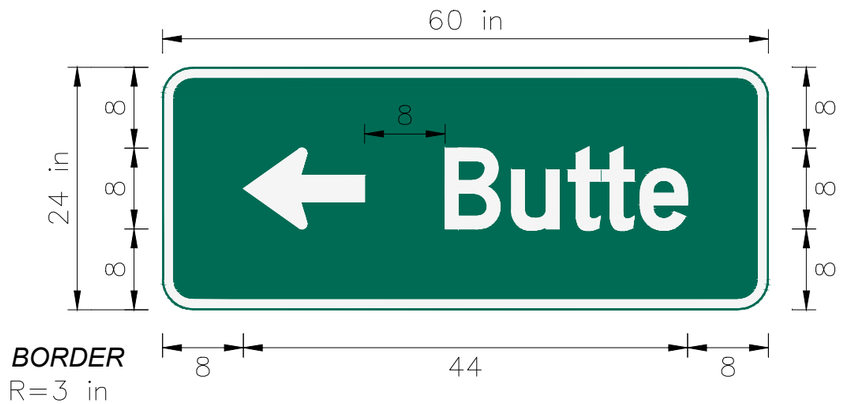
DESIGNED BY	S. PRATT	05/2026
REVIEWED BY	R. LUBBERS	05/2026
CHECKED BY	H. NICHOLAS	05/2026

10069000SISDC201.DWG

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

SHEET NO.
SDC-5

SIGN DESIGN CALCULATIONS



Panel Style: guide_con_destination.ssi
M.U.T.C.D.: 2023 Edition

Panel Style: guide_con_destination.ssi
Dimensions are in inches

SIGN NUMBER	G8-19		
WIDTH x HEIGHT	5'-0" x 2'-0"	10 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

STATION(S) 143+60 LT.

SYMBOL	ROT	X	Y	WID	HT
8x12	90	8	8	8	12

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

LENGTH SERIES/SIZE

	B	u	t	t	e																										D 2000	
28	6.6	5.6	3.4	3.8	4.7	8																								24	8/6	

SHEET NO.
SDC-6

SIGN DESIGN CALCULATIONS

MONTANA
Department of Transportation

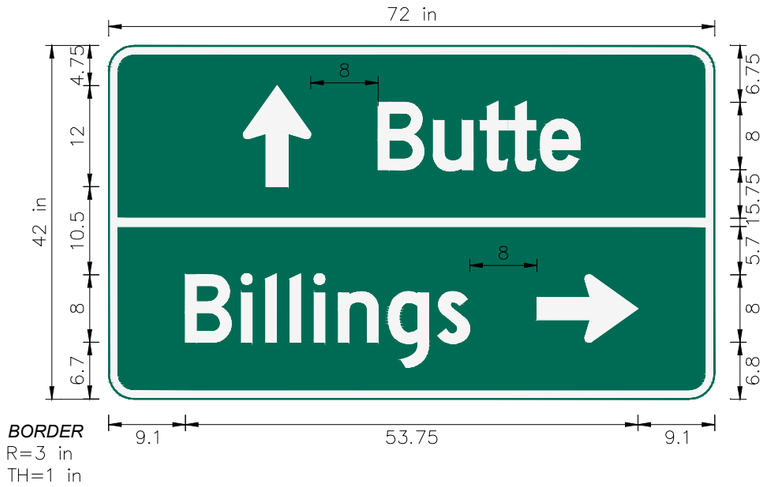
SIGNING PLANS

DESIGNED BY	S. PRATT	05/2026	
REVIEWED BY	R. LUBBERS	05/2026	
CHECKED BY	H. NICHOLAS	05/2026	

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

10069000\SIDC\Z01.DWG

5/14/2026 1:41 PM



Panel Style: guide_con_destination.ssi
Dimensions are in inches

Panel Style: guide_con_destination.ssi
M.U.T.C.D.: 2023 Edition

SIGN NUMBER	G9-56		
WIDTH x HEIGHT	6'-0" x 3'-6"	21 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

STATION(S) 143+68 RT.

SYMBOL	ROT	X	Y	WID	HT
8x12	0	16	25.25	8	12
8x12	270	50.9	6.8	8	12

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	B	u	t	t	e																										D 2000
32	6.6	5.6	3.4	3.8	4.7	16																								24	8/6
	B	i	l	l	i	n	g	s																							D 2000
9.1	6.6	2.875	2.875	2.875	2.875	6	6	3.8	29.1																					33.75	8/6

SHEET NO.
SDC-7

SIGN DESIGN CALCULATIONS

PROJECT NAME: DEHART INTERCHANGE - E & W
COUNTY: SWEET GRASS
PROJECT ID: IM 90-7(121)360
UPN: 10069000

DESIGNED BY	DATE
S. PRATT	05/2026
REVIEWED BY	05/2026
R. LUBBERS	
CHECKED BY	05/2026
H. NICHOLAS	

MONTANA
Department of Transportation

SIGNING PLANS

10069000\SIDC\Z01.DWG

5/14/2026 1:41 PM