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: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-0" x 1'-0"	3 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	H	a	l	v	e	r	s	e	n		D	r																		LENGTH	SERIES/SIZE
																															B 2000
2.78	3.42	3.12	1.38	3	2.88	1.86	2.34	2.88	2.16	4	2.36	1.04	2.78																	30.44	6/4.5,4/3

SHEET NO.
SDC1

SIGN DESIGN CALCULATIONS

SWAN LAKE - N & S
LAKE COUNTY
STPP 83-3(7)59
10542000

DESIGNED BY	R. TEIXEIRA	06/2025	PROJECT NAME
REVIEWED BY	J. STASZCUK	06/2025	COUNTY
CHECKED BY			PROJECT ID
			UPN

MONTANA
Department of Transportation

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6/12/2025 10:17 AM

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sanbell



Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	S		F	e	r	n	d	a	l	e		D	r																LENGTH	SERIES/SIZE
																														B 2000
4.21	1.72	4	2.76	2.88	2.16	2.88	2.88	3.12	1.56	2.22	4	2.36	1.04	4.21															33.58	4,6/4.5,4/3

SHEET NO.
SDC2

SIGN DESIGN CALCULATIONS

SWAN LAKE - N & S
LAKE COUNTY
STPP 83-3(7)59
10542000

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000
DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	

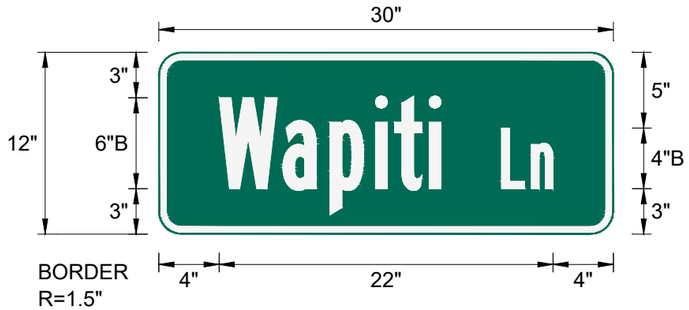
MONTANA
Department of Transportation

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6/12/2025 10:17 AM

10542000SISDC001.DWG

sanbell



BORDER
R=1.5"
TH=0.5"

Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	2'-6" x 1'-0"	2.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	W	a	p	i	t	i		L	n																					LENGTH	SERIES/SIZE
	W	a	p	i	t	i		L	n																						B 2000
3.98	4.2	3.12	3	1.26	2.28	0.78	4	1.96	1.44	3.98																				22.04	6/4.5,4/3

SHEET NO.
SDC3

SIGN DESIGN CALCULATIONS

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	

MONTANA
Department of Transportation

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-0" x 1'-0"	3 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	S	u	n	b	u	r	s	t		D	r																			LENGTH	SERIES/SIZE
																															B 2000
3.68	3.3	3.12	3.06	2.94	3.12	1.86	2.04	1.8	4	2.36	1.04	3.68																		28.64	6/4.5,4/3

SHEET NO.
SDC4

SIGN DESIGN CALCULATIONS

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

6/12/2025 10:17 AM
10542000SISDC001.DWG

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BORDER
R=1.5"
TH=0.5"

Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-0" x 1'-0"	3 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	B	i	g		R	o	c	k		D	r																			LENGTH	SERIES/SIZE
																															B 2000
3.12	3.36	1.56	2.22	4	3.18	2.82	2.82	2.4	4	2.36	1.04	3.12																		29.76	6/4.5,4/3

SHEET NO.
SDC5

SIGN DESIGN CALCULATIONS

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

DESIGNED BY	06/2025
R. TEIXEIRA	
REVIEWED BY	06/2025
J. STASZCUK	
CHECKED BY	

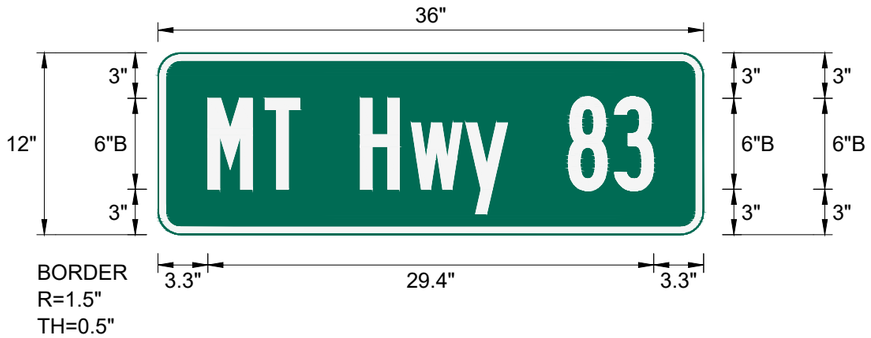
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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-0" x 1'-0"	3 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	M	T		H	w	y		8	3																				LENGTH	SERIES/SIZE
																														B 2000
3.29	3.78	2.28	4	3.36	3.6	2.76	4	3.06	2.58	3.29																			29.42	6,6/4.5

SHEET NO.
SDC6

SIGN DESIGN CALCULATIONS

SWAN LAKE - N & S
LAKE COUNTY
STPP 83-3(7)59
10542000

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	W	i	n	d	h	a	v	e	n		R	d	g																	LENGTH	SERIES/SIZE
																															B 2000
3.27	4.5	1.74	2.88	3.18	2.76	2.76	3	2.88	2.16	4	2.12	2	1.48	3.27																35.46	6/4.5,4/3

SHEET NO.
SDC7

SIGN DESIGN CALCULATIONS

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MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	2'-6" x 1'-0"	2.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	C	o	u	g	a	r		T	r																					LENGTH	SERIES/SIZE
																															B 2000
3.1	3.36	2.94	2.94	2.88	3.12	1.56	4	1.96	1.04	3.1																				23.8	6/4.5,4/3

SHEET NO.
SDC8

SIGN DESIGN CALCULATIONS

SWAN LAKE - N & S
LAKE COUNTY
STPP 83-3(7)59
10542000

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	S	w	a	n		C	o	v	e		D	r																			LENGTH	SERIES/SIZE
																																B 2000
3.72	3	3.66	3.12	2.16	4	3.36	2.64	3	2.22	4	2.36	1.04	3.72																		34.56	6/4.5,4/3

SHEET NO.
SDC9

SIGN DESIGN CALCULATIONS

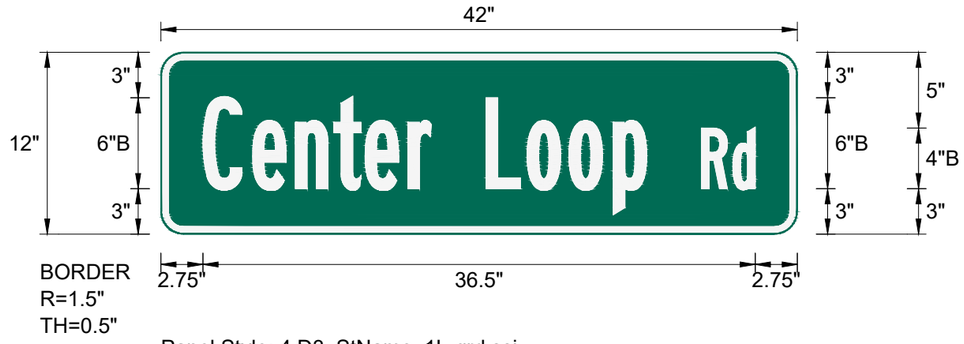
MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% [X] 20% [ ] 30% [ ]

	C	e	n	t	e	r		L	o	o	p		R	d																LENGTH	SERIES/SIZE
																															B 2000
2.77	3.28	2.81	2.54	2.07	2.81	1.56	3.6	2.71	2.76	2.92	2.22	3.6	2.08	1.48	2.77															36.45	6/4.5,4/3

SHEET NO.
SDC10

SIGN DESIGN CALCULATIONS

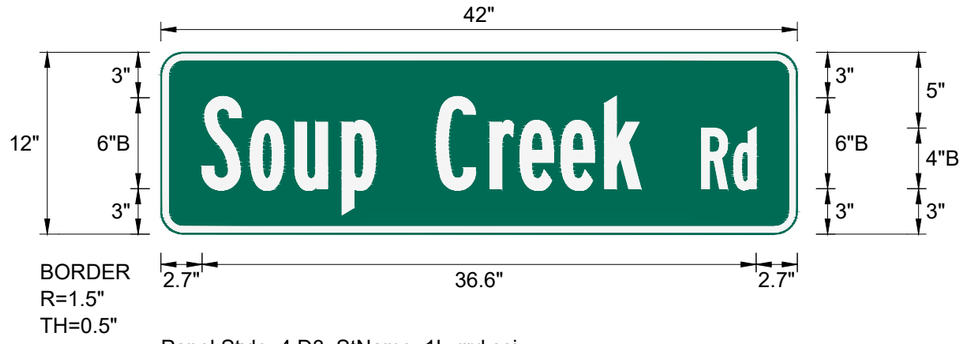
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MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

6/12/2025 10:17 AM
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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	S	o	u	p		C	r	e	e	k		R	d																	LENGTH	SERIES/SIZE
2.72	3.18	2.94	3.12	2.22	4	3.54	1.98	2.7	2.88	2.4	4	2.12	1.48	2.72																36.56	B 2000 6/4.5,4/3

SHEET NO.
SDC11

SIGN DESIGN CALCULATIONS

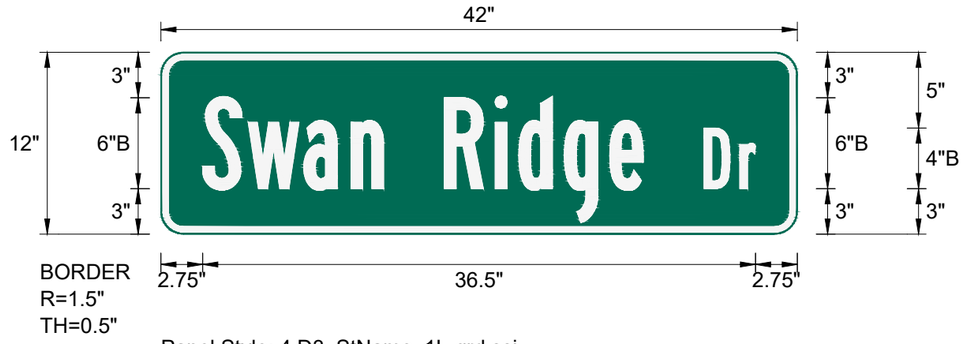
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MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-6" x 1'-0"	3.5 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

	S	w	a	n		R	i	d	g	e		D	r																	LENGTH	SERIES/SIZE
																															B 2000
2.76	3	3.66	3.12	2.16	4	3.36	1.56	3	3	2.22	4	2.36	1.04	2.76																36.48	6/4.5,4/3

SHEET NO.
SDC12

SIGN DESIGN CALCULATIONS

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59 10542000
UPN	

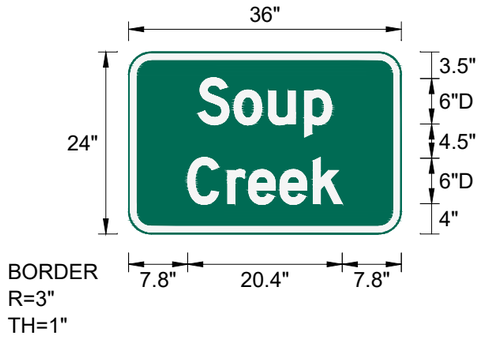
DESIGNED BY	06/2025
R. TEIXEIRA	
REVIEWED BY	06/2025
J. STASZCUK	
CHECKED BY	MM/YYYY
FIRST INITIAL LAST NAME	10542000SISDC001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

6/12/2025 10:17 AM

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Panel Style: 0 Grn-PS_3-0 4-6.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 0 Grn-PS_3-0 4-6.ssi
Dimensions are in inches.tenths

SIGN NUMBER	N6-2	
WIDTH x HEIGHT	3'-0" x 2'-0"	6 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	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	S	o	u	p																											D 2000
9.18	4.74	4.56	4.74	3.6	9.18																									17.64	6/4.5
	C	r	e	e	k																										D 2000
7.8	5.28	2.76	4.14	4.38	3.84	7.8																								20.4	6/4.5

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Department of Transportation

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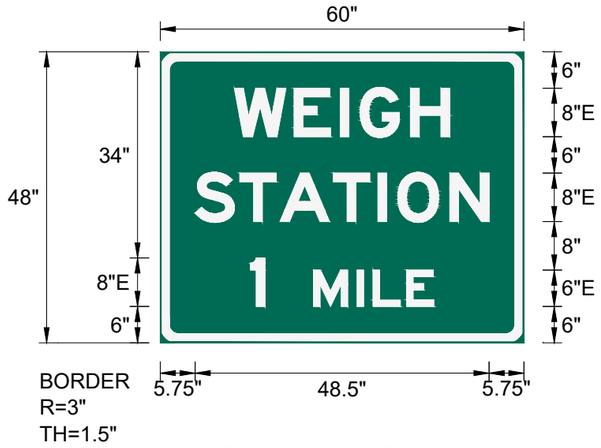
6/12/2025 10:18 AM

DESIGNED BY	R. TEIXEIRA	06/2025
REVIEWED BY	J. STASZCUK	06/2025
CHECKED BY		

PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000
10542000SISDC001.DWG

SHEET NO.
SDC13

SIGN DESIGN CALCULATIONS



Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D8-1		
WIDTH x HEIGHT	5'-0" x 4'-0"	20 Sq.Ft.	
BORDER WIDTH	1.5"	MARGIN	0"
CORNER RADIUS	3"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X) REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	W	E	I	G	H																										E 2000
12.24	9.84	7.6	3.28	8.32	6.48	12.24																								35.52	8
	S	T	A	T	I	O	N																								E 2000
5.76	7.36	6.64	8.8	7.36	3.28	8.56	6.48	5.76																						48.48	8
	1		M	I	L	E																									E 2000
14.87	2.4	8	7.2	2.64	5.52	4.5	14.87																							30.26	8,6

sanbell

MONTANA
Department of Transportation

SIGNING PLANS

6/12/2025 10:18 AM

DESIGNED BY	06/2025
R. TEIXEIRA	
REVIEWED BY	06/2025
J. STASZCUK	
CHECKED BY	

PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000

10542000SISDC001.DWG

SHEET NO.
SDC14

SIGN DESIGN CALCULATIONS



BORDER
R=4"
TH=1"

Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D8-2L	
WIDTH x HEIGHT	5'-6" x 3'-0"	16.5 Sq.Ft.
BORDER WIDTH	1"	MARGIN 0"
CORNER RADIUS	4"	ALUMINUM TYPE
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	W	E	I	G	H																										E 2000
19.68	7.38	5.7	2.46	6.24	4.86	19.68																								26.64	6
	S	T	A	T	I	O	N																								E 2000
14.82	5.52	4.98	6.6	5.52	2.46	6.42	4.86	14.82																						36.36	6
	N	E	X	T		L	E	F	T																						E 2000
8.58	6.42	5.34	5.88	4.5	6	5.52	5.7	4.98	4.5	8.58																				48.84	6

SHEET NO.
SDC15

SIGN DESIGN CALCULATIONS

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Department of Transportation

SIGNING PLANS

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

DESIGNED BY	R. TEIXEIRA	06/2025
REVIEWED BY	J. STASZCUK	06/2025
CHECKED BY		

6/12/2025 10:18 AM

10542000SISDC001.DWG



Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D8-2R	
WIDTH x HEIGHT	5'-6" x 3'-0"	16.5 Sq.Ft.
BORDER WIDTH	1"	MARGIN 0"
CORNER RADIUS	4"	ALUMINUM TYPE
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	W	E	I	G	H																										E 2000
19.68	7.38	5.7	2.46	6.24	4.86	19.68																								26.64	6
	S	T	A	T	I	O	N																								E 2000
14.82	5.52	4.98	6.6	5.52	2.46	6.42	4.86	14.82																						36.36	6
	N	E	X	T		R	I	G	H	T																					E 2000
6.36	6.42	5.34	5.88	4.5	6	6.06	2.46	6.24	5.88	4.5	6.36																			53.28	6

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MONTANA
Department of Transportation

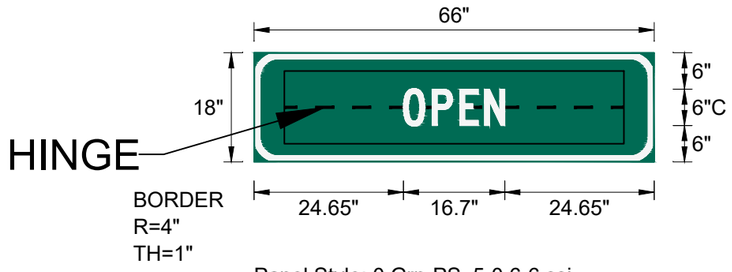
SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

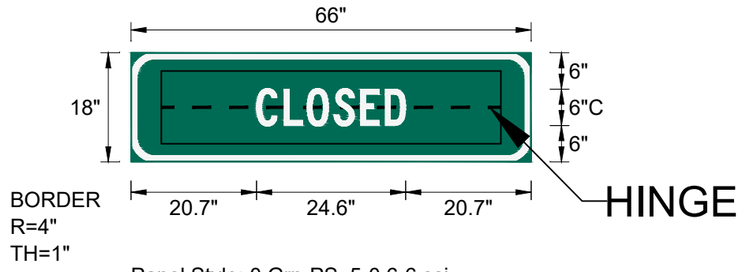
6/12/2025 10:18 AM 10542000SISDC001.DWG

SHEET NO.
SDC16

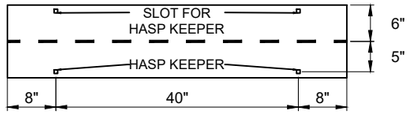
SIGN DESIGN CALCULATIONS



Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition



Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition



Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D8-2A	
WIDTH x HEIGHT	5'-6" x 1'-6"	8.25 Sq.Ft.
BORDER WIDTH	1"	MARGIN 0"
CORNER RADIUS	4"	ALUMINUM TYPE
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	O	P	E	N																											C 2000
24.63	4.74	4.56	4.08	3.36	24.63																									16.74	6
	C	L	O	S	E	D																										C 2000
20.7	4.56	3.78	4.44	4.38	4.08	3.36	20.7																							24.6	6

SHEET NO.
SDC17

SIGN DESIGN CALCULATIONS

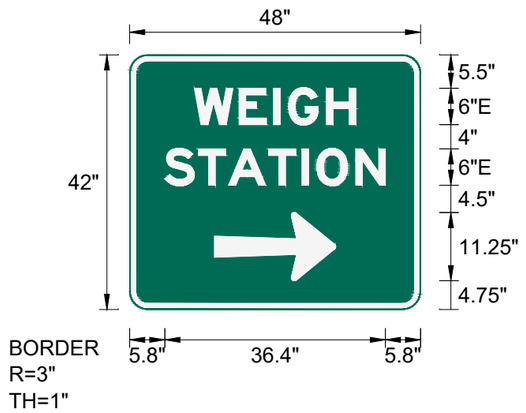
PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000

DESIGNED BY: R. TEIXEIRA 06/2025
REVIEWED BY: J. STASZCUK 06/2025
CHECKED BY:

MONTANA
Department of Transportation

SIGNING PLANS

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Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D8-3R	
WIDTH x HEIGHT	4'-0" x 3'-6"	14 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	

SYMBOL	ROT	X	Y	WID	HT
AR_Type B	270	14	4.75	11.25	20

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	W	E	I	G	H																										E 2000
10.68	7.38	5.7	2.46	6.24	4.86	10.68																								26.64	6
	S	T	A	T	I	O	N																								E 2000
5.82	5.52	4.98	6.6	5.52	2.46	6.42	4.86	5.82																						36.36	6

SHEET NO.
SDC18

SIGN DESIGN CALCULATIONS

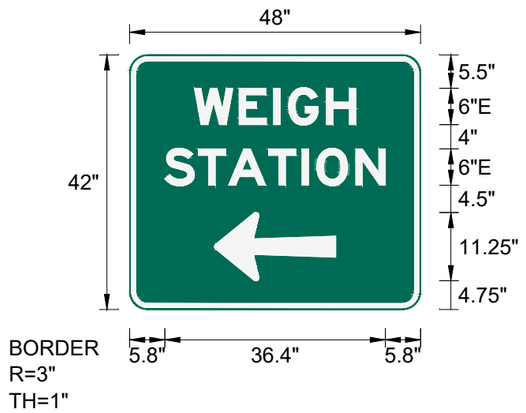
MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

6/12/2025 10:18 AM
10542000SISDC001.DWG

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Panel Style: 0 Grn-PS_5-0 6-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_5-0 6-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D8-3L	
WIDTH x HEIGHT	4'-0" x 3'-6"	14 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	

SYMBOL	ROT	X	Y	WID	HT
AR_Type B	90	14	4.75	11.25	20

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																													LENGTH	SERIES/SIZE
	W	E	I	G	H																									E 2000
10.68	7.38	5.7	2.46	6.24	4.86	10.68																							26.64	6
	S	T	A	T	I	O	N																							E 2000
5.82	5.52	4.98	6.6	5.52	2.46	6.42	4.86	5.82																					36.36	6

SHEET NO.
SDC19

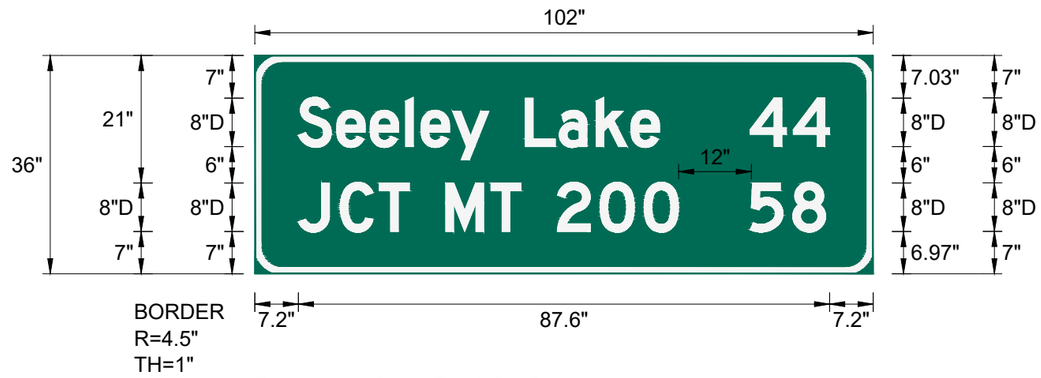
SIGN DESIGN CALCULATIONS

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	
PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

6/12/2025 10:18 AM 10542000SISDC001.DWG



Panel Style: 0 Grn-PS_3-0 4-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_3-0 4-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D2-2		
WIDTH x HEIGHT	8'-6" x 3'-0"	25.5 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	4.5"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																															LENGTH	SERIES/SIZE
	S	e	e	l	e	y		L	a	k	e																					
7.18	6.32	5.52	5.84	2.56	5.2	6	6	5.6	6.08	5.76	4.72	35.22																			59.6	D 2000 8/6
	4	4																														
81.7	7.12	6	7.18																												13.12	D 2000 8
	J	C	T		M	T		2	0	0																						
7.18	6.88	6.48	4.96	6	7.44	4.96	6	7.04	7.28	5.68	32.1																				62.72	D 2000 8
	5	8																														
81.7	7.04	5.44	7.82																												12.48	D 2000 8

SHEET NO.
SDC20

SIGN DESIGN CALCULATIONS

PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000

DESIGNED BY: R. TEIXEIRA 06/2025
REVIEWED BY: J. STASZCUK 06/2025
CHECKED BY:

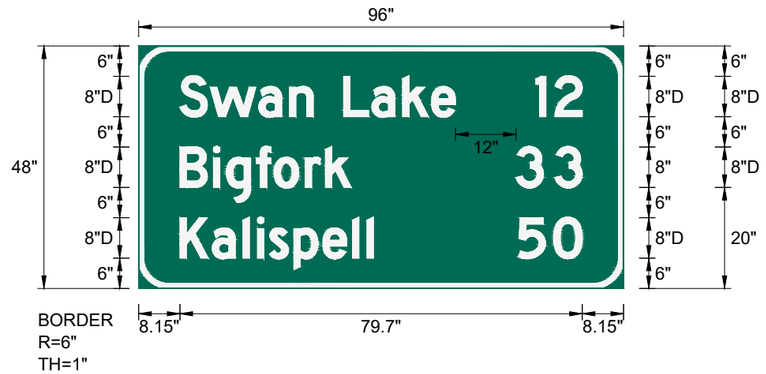
MONTANA
Department of Transportation

SIGNING PLANS

6/12/2025 10:18 AM

10542000SISDC001.DWG

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Panel Style: 0 Grn-PS_3-0 4-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_3-0 4-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D2-3		
WIDTH x HEIGHT	8'-0" x 4'-0"	32 Sq.Ft.	
BORDER WIDTH	1"	MARGIN 0"	
CORNER RADIUS	6"	ALUMINUM TYPE	
MOUNTING	Ground	INCREMENT	
BACKGROUND	TYPE: Reflective		
	COLOR: Green		
LEGEND/BORDER	TYPE: Reflective		
	COLOR: White/White		

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																															LENGTH	SERIES/SIZE
	S	w	a	n		L	a	k	e																							
8.17	6	9.6	6.08	4.72	6	5.6	6.08	5.76	4.72	33.27																					54.56	D 2000 8/6
	1	2																														
78.63	3.76	5.44	8.17																												9.2	D 2000 8
	B	i	g	f	o	r	k																									
8.17	6.64	2.56	5.92	3.52	6.16	4	5.12	53.91																							33.92	D 2000 8/6
	3	3																														
74.71	7.68	5.44	8.17																												13.12	D 2000 8
	K	a	l	i	s	p	e	l	l																							
8.17	6.4	6.08	2.88	2.4	4.8	5.76	5.84	2.88	1.28	49.51																					38.32	D 2000 8/6
	5	0																														
75.11	7.04	5.68	8.17																												12.72	D 2000 8

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SHEET NO.
SDC21

SIGN DESIGN CALCULATIONS

PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000

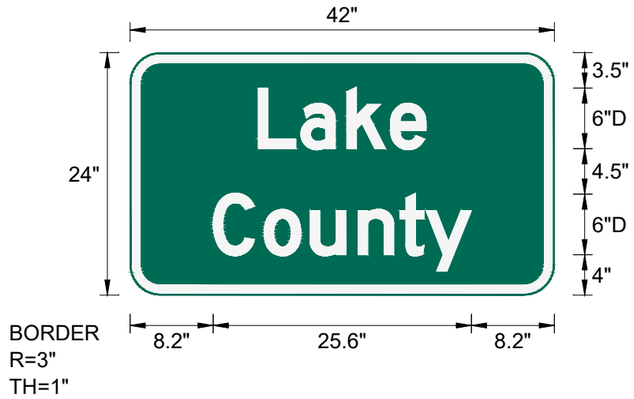
DESIGNED BY: R. TEIXEIRA 06/2025
REVIEWED BY: J. STASZCUK 06/2025
CHECKED BY:

MONTANA
Department of Transportation

SIGNING PLANS

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10542000SISDC001.DWG



Panel Style: 0 Grn-PS_3-0 4-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_3-0 4-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	N6-3		
WIDTH x HEIGHT	3'-6" x 2'-0"	7 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		

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	L	a	k	e																											D 2000
12.69	4.2	4.56	4.32	3.54	12.69																									16.62	6/4.5
	C	o	u	n	t	y																									D 2000
8.22	5.04	4.56	4.74	4.14	2.58	4.5	8.22																							25.56	6/4.5

SHEET NO.
SDC22

SIGN DESIGN CALCULATIONS

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

DESIGNED BY	R. TEIXEIRA 06/2025
REVIEWED BY	J. STASZCUK 06/2025
CHECKED BY	

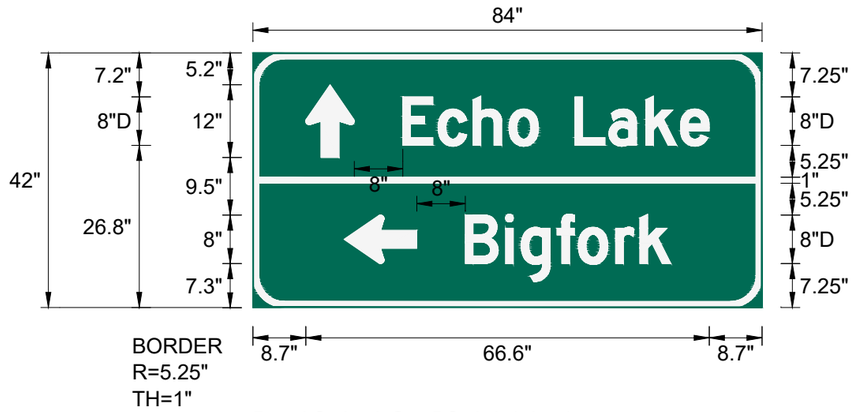
MONTANA
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10542000SISDC001.DWG

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Panel Style: 0 Grn-PS_3-0 4-6.ssi
Dimensions are in inches.tenths

Panel Style: 0 Grn-PS_3-0 4-6.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	D1-2	
WIDTH x HEIGHT	7'-0" x 3'-6"	24.5 Sq.Ft.
BORDER WIDTH	1"	MARGIN 0"
CORNER RADIUS	5.25"	ALUMINUM TYPE
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	0	8.72	24.75	8	12
AR_Type D	90	15.04	7.25	8	12

LETTER POSITIONS (X)

REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	E	c	h	o		L	a	k	e																						
24.72	5.84	5.76	5.92	4.88	6	5.6	6.08	5.76	4.72	8.72																				50.56	D 2000 8/6
	B	i	g	f	o	r	k																								
35.04	6.64	2.56	5.92	3.52	6.16	4	5.12	15.04																						33.92	D 2000 8/6

PROJECT NAME	SWAN LAKE - N & S
COUNTY	LAKE COUNTY
PROJECT ID	STPP 83-3(7)59
UPN	10542000

DESIGNED BY	R. TEIXEIRA	06/2025
REVIEWED BY	J. STASZCUK	06/2025
CHECKED BY		

MONTANA
Department of Transportation

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6/12/2025 10:18 AM

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SHEET NO.
SDC23

SIGN DESIGN CALCULATIONS

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Panel Style: 4 D3_StName_1L-grd.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: 4 D3_StName_1L-grd.ssi
Dimensions are in inches.tenths

SIGN NUMBER	D3-1	
WIDTH x HEIGHT	3'-0" x 1'-0"	3 Sq.Ft.
BORDER WIDTH	0.5"	MARGIN 0"
CORNER RADIUS	1.5"	ALUMINUM TYPE
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/Green	

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X) REDUCTION: 10% 20% 30%

																														LENGTH	SERIES/SIZE
	R	e	d		O	w	l		R	d																					B 2000
4.1	3.18	2.7	2.22	4	3.36	3.96	0.78	4	2.12	1.48	4.1																			27.8	6/4.5,4/3

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Department of Transportation

SIGNING PLANS

6/12/2025 10:18 AM

DESIGNED BY	R. TEIXEIRA	06/2025
REVIEWED BY	J. STASZCUK	06/2025
CHECKED BY		

PROJECT NAME: SWAN LAKE - N & S
COUNTY: LAKE COUNTY
PROJECT ID: STPP 83-3(7)59
UPN: 10542000
10542000SISDC001.DWG

SHEET NO.
SDC24

SIGN DESIGN CALCULATIONS