$FILEABBREV$
SHEET 1
MONTANA CADD
$TIME$
$DATE$
$username$

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. _____

PROJ. TITLE _____



"INVASIVE SPECIES" 30% SPACE REDUCTION

16 SIGNS

LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R99-10
T	4.78	6.00	I	1.93	6.00	I	2.35	6.00	I	3.13	8.00	STA.
R	5.15		N	4.81		N	4.03		L	6.38		
A	6.14		V	4.77			6.00		L	6.38		PANEL MAT'L ALUM INCR
N	5.44		A	5.80		M	6.05		E	6.38		
S	5.44		S	5.02		O	5.63		G	6.88		WIDTH 78
P	5.15		I	1.72		N	5.15		A	8.19		
O	5.63		V	5.28		T	4.04		L	4.88		HEIGHT 48
R	5.15		E	3.66		A	6.14					
T	3.66			4.20		N	5.15					AREA 26
	6.00		S	5.02		A	5.02					
O	5.63		P	5.02			6.00					MARGIN 1/2
F	3.66		E	4.44		I	2.35					
			C	4.81		S	4.03					BORDER 1
			I	1.93								
			E	4.44								CORNER R 6
			S	4.03								
												LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
TOTAL TEMP.	61.83		TOTAL TEMP.	66.88		TOTAL TEMP.	61.94		TOTAL TEMP.	42.22		LETTER SERIES D
LEFT EDGE	8.09		LEFT EDGE	5.56		LEFT EDGE	8.03		LEFT EDGE	17.89		ARROW SIZE
RIGHT EDGE	8.08		RIGHT EDGE	5.56		RIGHT EDGE	8.03		RIGHT EDGE	17.89		DESIGNED: DWM DATE: 5/10
SIGN WIDTH	78.00		SIGN WIDTH	78.00		SIGN WIDTH	78.00		SIGN WIDTH	78.00		CHECKED: JHC DATE: 5/10

$FILEABBREV$
SHEET 2
MONTANA CADD
$TIME$
$DATE$
$username$

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. _____
PROJ. TITLE _____

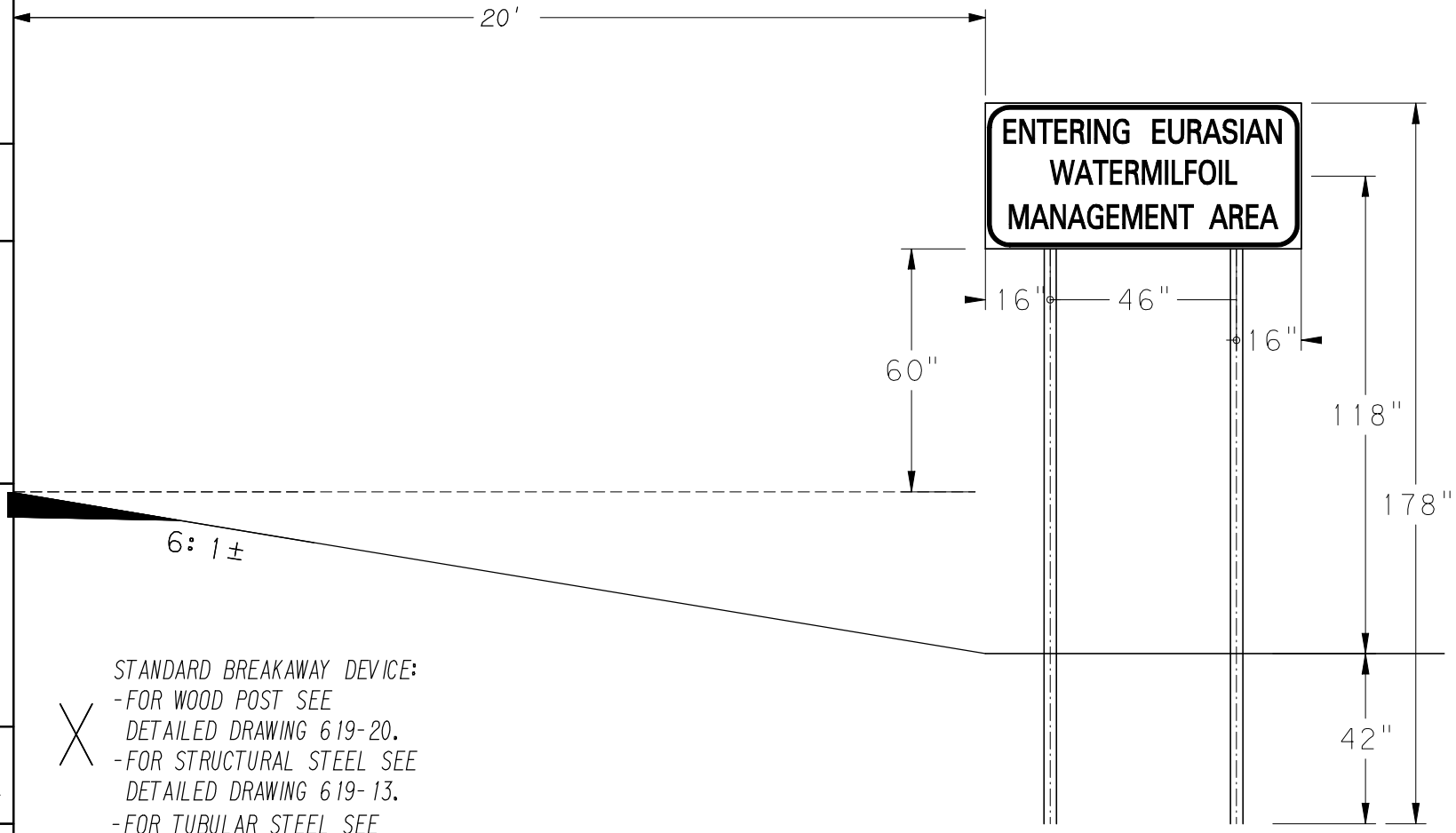


LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R99-12
E	4.01	6.00	W	4.84	6.00	M	4.90	6.00				STA.
N	4.29		A	4.09		A	4.76					
T	4.01		T	4.01		N	4.29					PANEL MAT'L ALUM INCR
E	4.01		E	4.01		A	4.76					
R	4.54		R	4.54		G	4.54					WIDTH 78
I	2.10		M	5.15		E	4.01					
N	4.54		I	2.10		M	5.15					HEIGHT 36
G	3.28		L	4.01		E	4.01					
	6.00		F	4.01		N	4.29					AREA 19.5
E	4.01		O	4.73		T	3.00					
U	4.54		I	2.10			6.00					MARGIN 1/2
R	4.29		L	3.00		A	4.76					
A	4.76					R	4.54					BORDER 1
S	4.54					E	3.68					
I	1.85					A	3.75					CORNER R 6
A	4.76											
N	3.28											LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
TOTAL TEMP.	68.81		TOTAL TEMP.	46.59		TOTAL TEMP.	66.44		TOTAL TEMP.			BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
LEFT EDGE	4.60		LEFT EDGE	15.71		LEFT EDGE	5.78		LEFT EDGE			LETTER SERIES C
RIGHT EDGE	4.59		RIGHT EDGE	15.70		RIGHT EDGE	5.78		RIGHT EDGE			ARROW SIZE
SIGN WIDTH	78.00		SIGN WIDTH	78.00		SIGN WIDTH	78.00		SIGN WIDTH			DESIGNED: DWM DATE: 5/10
												CHECKED: JHC DATE: 5/10

SIGN LOCATION SPECIFICATIONS

INTERSTATE

STA.	
SIGN NO.	
WIDTH X HEIGHT	AREA
78 X 36	19.5 ft²
T. of S.	5 INCH POLE
L. of S.	X 14-10 ft Y 14-10 ft
	(2)16'
BREAKAWAY	X
F.D.	3-6 ft
C.L.	20 ft
M.H.	5 ft
SPACING	A 3-10 B 1-4

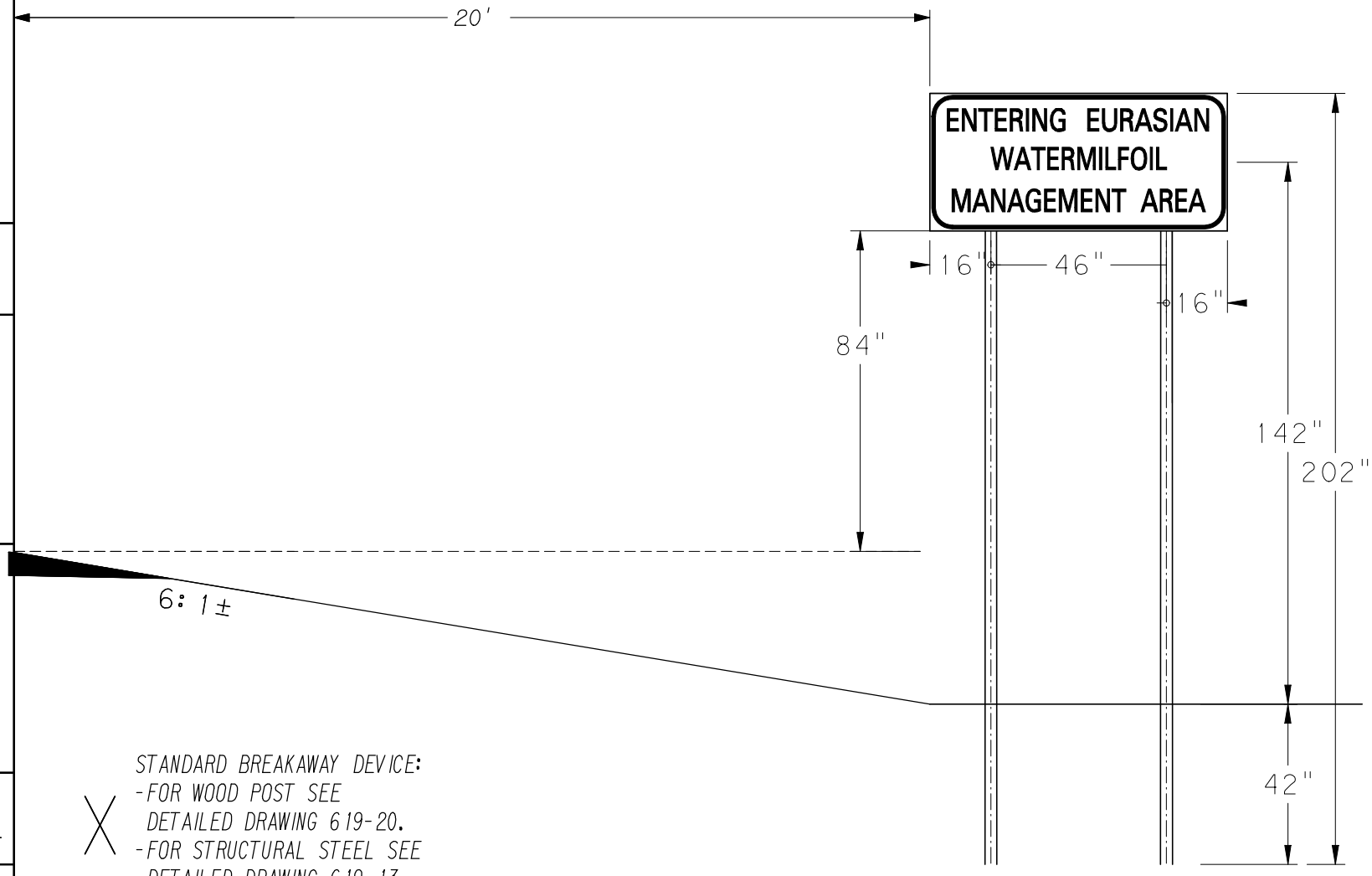


X *STANDARD BREAKAWAY DEVICE:*
- *FOR WOOD POST SEE DETAILED DRAWING 619-20.*
- *FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.*
- *FOR TUBULAR STEEL SEE DETAILED DRAWING 619-12.*

SIGN LOCATION SPECIFICATIONS

PRIMARY/SECONDARY

STA.	
SIGN NO.	
WIDTH X HEIGHT	AREA
78 X 36	19.5 ft²
T. of S.	5 INCH POLE
L. of S.	X 16-10 ft Y 16-10 ft
	(2)18'
BREAKAWAY	X
F. D.	3-6 ft
C. L.	20 ft
M. H.	7 ft
SPACING	A 3-10 B 1-4



X STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.
- FOR TUBULAR STEEL SEE DETAILED DRAWING 619-12.

SIGN LOCATION SPECIFICATIONS

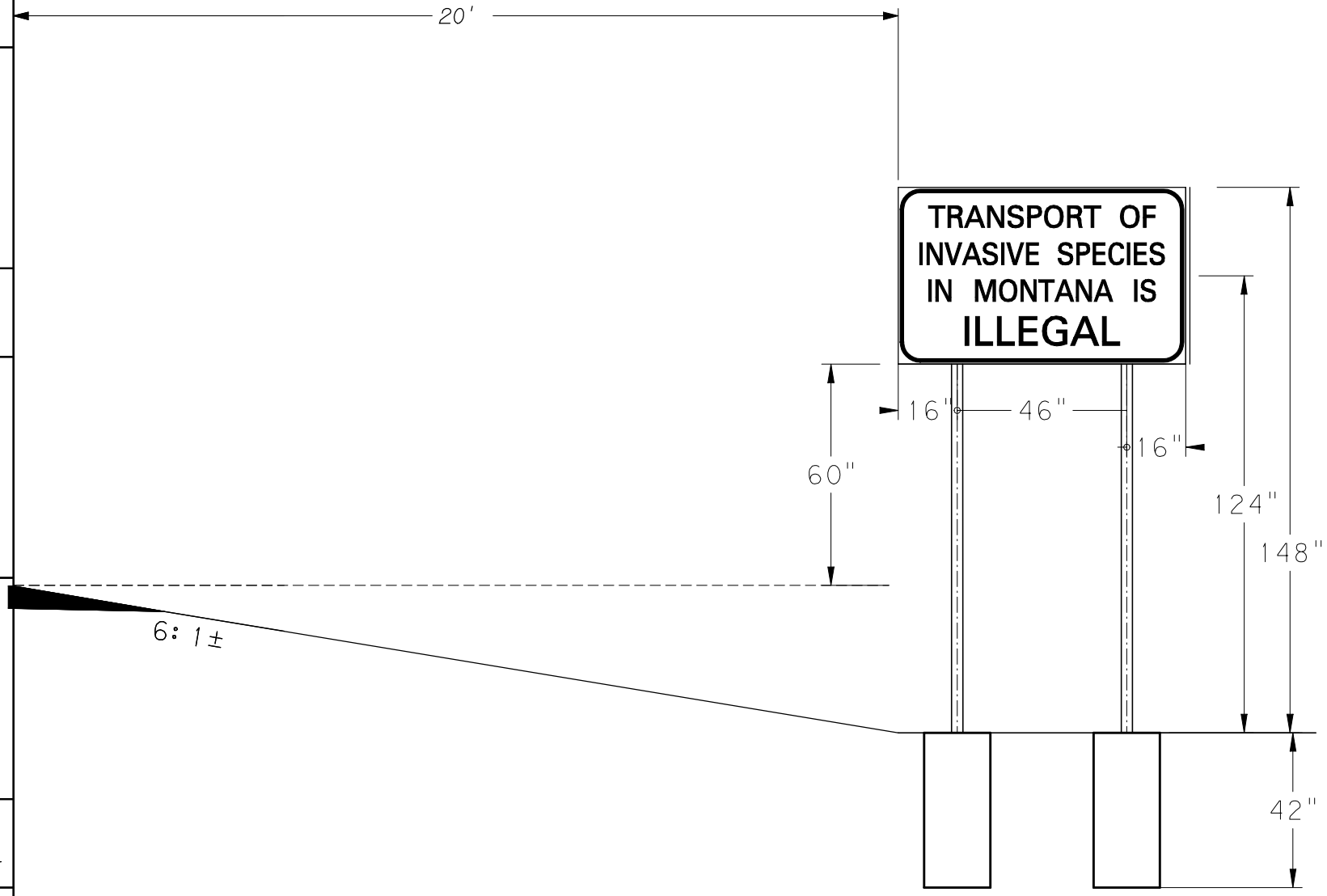
INTERSTATE

STA.	
SIGN NO.	
WIDTH X HEIGHT	AREA
78 X 48	26 ft²
T. of S.	S4X7.7
L. of S.	X 12-4 ft x7.7 =95 Y 12-4 ft x7.7 =95
	190 LBS
BREAKAWAY	

F.D.	C.L.	M.H.
3-6 ft	20 ft	5 ft

SPACING

A 3-10 B 1-4



SIGN LOCATION SPECIFICATIONS

PRIMARY/SECONDARY

STA.	
SIGN NO.	
WIDTH X HEIGHT	AREA
78 X 48	26 ft²
T. of S.	S4X7.7
L. of S.	
X 14-4 ft x7.7 =110.4	Y 14-4 ft x7.7 =110.4
220.8 LBS	
BREAKAWAY	
F.D. 3-6 ft	C.L. 20 ft
M.H. 7 ft	
SPACING	
A 3-10 B 1-4	

