## FGDC Document Number FGDC-STD-013-2006 Appendix A

		5—FOLDS		
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*
		5.1—Anticlines	•	
5.1.1	Anticline (1st option)—Identity and existence cer- tain, location accurate	<b>\</b>	.2 mm 40° ↓ HB-8 5.5 2	Place fold trace where axial surface of anticline intersects the ground
5.1.2	Anticline (1st option)—Identity or existence ques- tionable, location accurate		mm ↓ lineweight .25 mm ↓ 12.0 mm ← 1.475 mm	surface. Place arrows at places along fold trace to indi- cate overall fold type
5.1.3	Anticline (1st option)—Identity and existence cer- tain, location approximate		3.5 mm ⇒i ⊭ 	(anticline); do not place at specific locality where observation was
5.1.4	Anticline (1st option)—Identity or existence ques- tionable, location approximate	_?‡?	→ ★ ← → ★ ← .75 mm .75 mm	made. Arrowheads may be added to show direction
5.1.5	Anticline (1st option)—Identity and existence cer- tain, location inferred	\$	1.5 mm → k	of plunge (see Section 5.10). Open-arrowed ("2nd
5.1.6	Anticline (1st option)—Identity or existence ques- tionable, location inferred		→k← →k← .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a
5.1.7	Anticline (1st option)—Identity and existence cer- tain, location concealed	‡	.5 mm →k~	particular fold type. May also be shown in black or other colors.
5.1.8	Anticline (1st option)—Identity or existence ques- tionable, location concealed	····\$···\$···	· 커는 · 커는 .75 mm .75 mm	
5.1.9	Anticline (2nd option)—Identity and existence cer- tain, location accurate		arrow lineweight color 100% magenta .2 mm $40^{\circ}$ HB-8 5.5 $2$ HB-8	
5.1.10	Anticline (2nd option)—Identity or existence ques- tionable, location accurate	<del>``}                                  </del>	mm ★ .75 mm lineweight .25 mm ↓ 12.0 mm ← 1.475 mm	
5.1.11	Anticline (2nd option)—Identity and existence cer- tain, location approximate	‡	3.5 mm → k	
5.1.12	Anticline (2nd option)—Identity or existence ques- tionable, location approximate	—;— ∲ —;—	→k →k .75 mm .75 mm	
5.1.13	Anticline (2nd option)—Identity and existence cer- tain, location inferred	‡	1.5 mm ≯ №	
5.1.14	Anticline (2nd option)—Identity or existence ques- tionable, location inferred	<u>?</u> ‡ <u>?</u>	:↓: ≯k- ≯k- .75 mm .75 mm	
5.1.15	Anticline (2nd option)—Identity and existence cer- tain, location concealed	Ĵ	.5 mm →k	
5.1.16	Anticline (2nd option)—Identity or existence ques- tionable, location concealed	····\$···\$···\$···	→  ← →  ← .75 mm .75 mm	

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	5—FOLDS (continued)				
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
		5.2—Antiforms			
5.2.1	Antiform (1st option)—Identity and existence cer- tain, location accurate	<b>‡</b>	.2 mm 60° HB-8	Place fold trace where axial surface of antiform intersects the ground surface.	
5.2.2	Antiform (1st option)—Identity or existence ques- tionable, location accurate	<del>? <b>†</b> ? -</del>	mm ↑ 1.75 mm 1.75 mm 1.475 mm 1.475 mm	Place arrows at places along fold trace to indi- cate overall fold type	
5.2.3	Antiform (1st option)—Identity and existence cer- tain, location approximate	‡	3.5 mm ≯ ≮ 	(antiform); do not place at specific locality where observation was	
5.2.4	Antiform (1st option)—Identity or existence ques- tionable, location approximate	_?‡?	· 커► · 커► .75 mm .75 mm	made. Arrowheads may be added to show direction	
5.2.5	Antiform (1st option)—Identity and existence cer- tain, location inferred	\$	1.5 mm →   ←	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.2.6	Antiform (1st option)—Identity or existence ques- tionable, location inferred	?\$?	· 커논 · 커논 .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.2.7	Antiform (1st option)—Identity and existence cer- tain, location concealed	‡	.5 mm →k	particular fold type. May also be shown in black or other colors.	
5.2.8	Antiform (1st option)—Identity or existence ques- tionable, location concealed	····?···	-≯ ← -≯ ← .75 mm .75 mm		
5.2.9	Antiform (2nd option)—Identity and existence cer- tain, location accurate	<u> </u>	arrow lineweight color 100% magenta .2 mm 60° .5.5 2 4 HB-8		
5.2.10	Antiform (2nd option)—Identity or existence ques- tionable, location accurate	— <u>;                                    </u>	mm ↑ <i>lineweight</i> .25 mm ↓ 12.0 mm ← 1.475 mm		
5.2.11	Antiform (2nd option)—Identity and existence cer- tain, location approximate	—— <u></u>	3.5 mm ⇒ k		
5.2.12	Antiform (2nd option)—Identity or existence ques- tionable, location approximate	—;— ∲ —;—	·····································		
5.2.13	Antiform (2nd option)—Identity and existence cer- tain, location inferred		1.5 mm ≯ ⊭ 		
5.2.14	Antiform (2nd option)—Identity or existence ques- tionable, location inferred		:↓: ≯k- →k- .75 mm .75 mm		
5.2.15	Antiform (2nd option)—Identity and existence cer- tain, location concealed		.5 mm ≯k~ 		
5.2.16	Antiform (2nd option)—Identity or existence ques- tionable, location concealed	····\$···\$···	.75 mm .75 mm		

	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
	5.3—Asymm	hetric, overturned, and in	verted anticlines			
5.3.1	Asymmetric anticline (1st option)—Identity and existence certain, location accurate. Beds are upright; shorter arrow on steeper limb		lineweight 2.25 mm 40° color 100% magenta .25 mm 40° 1.475 mm HB-8	Place fold trace where axial surface of asym- metric anticline inter-		
5.3.2	Asymmetric anticline (1st option)—Identity or exis- tence questionable, location accurate. Beds are upright; shorter arrow on steeper limb	- <u>?</u>	3.5 mm → 12.0 mm → 2 mm	sects the ground sur- face. Place arrows at places along fold trace to indi-		
5.3.3	Asymmetric anticline (1st option)—Identity and existence certain, location approximate. Beds are upright; shorter arrow on steeper limb		3.5 mm → ►	cate overall fold type (asymmetric anticline); do not place at specific		
5.3.4	Asymmetric anticline (1st option)—Identity or exis- tence questionable, location approximate. Beds are upright; shorter arrow on steeper limb	_ <u>?</u> _ ↓;	→k →k .75 mm .75 mm	locality where observa- tion was made. Arrowheads may be		
5.3.5	Asymmetric anticline (1st option)—Identity and existence certain, location inferred. Beds are upright; shorter arrow on steeper limb		1.5 mm → k	added to show direction of plunge (see Section 5.10).		
5.3.6	Asymmetric anticline (1st option)—Identity or exis- tence questionable, location inferred. Beds are upright; shorter arrow on steeper limb	?	→ke →ke .75 mm .75 mm	Open-arrowed ("2nd option") symbols may be used to show a sec- ond generation or		
5.3.7	Asymmetric anticline (1st option)—Identity and existence certain, location concealed. Beds are upright; shorter arrow on steeper limb		.5 mm →k~ 	another instance of a particular fold type. May also be shown in		
5.3.8	Asymmetric anticline (1st option)—Identity or exis- tence questionable, location concealed. Beds are upright; shorter arrow on steeper limb		.75 mm .75 mm	black or other colors.		
5.3.9	Asymmetric anticline (2nd option)—Identity and existence certain, location accurate. Beds are upright; shorter arrow on steeper limb		lineweight 2.25 mm 40° 1.475 mm .25 mm 2.25 mm 40° 1.475 mm			
5.3.10	Asymmetric anticline (2nd option)—Identity or exis- tence questionable, location accurate. Beds are upright; shorter arrow on steeper limb	<u>?</u> ?	3.5 mm ★ 7.75 mm arrow lineweight ↓ 12.0 mm ← .2 mm			
5.3.11	Asymmetric anticline (2nd option)—Identity and existence certain, location approximate. Beds are upright; shorter arrow on steeper limb		3.5 mm → ►			
5.3.12	Asymmetric anticline (2nd option)—Identity or exis- tence questionable, location approximate. Beds are upright; shorter arrow on steeper limb	_;_ ∲ _;	→k →k .75 mm .75 mm			
5.3.13	Asymmetric anticline (2nd option)—Identity and existence certain, location inferred. Beds are upright; shorter arrow on steeper limb	‡	1.5 mm → k			
5.3.14	Asymmetric anticline (2nd option)—Identity or exis- tence questionable, location inferred. Beds are upright; shorter arrow on steeper limb	?	→k~ →k~ .75 mm .75 mm			
5.3.15	Asymmetric anticline (2nd option)—Identity and existence certain, location concealed. Beds are upright; shorter arrow on steeper limb		.5 mm →k- 2			
5.3.16	Asymmetric anticline (2nd option)—Identity or exis- tence questionable, location concealed. Beds are upright; shorter arrow on steeper limb	<u>?</u>	· ≯k			
5.3.17	Overturned anticline (1st option)—Identity and exis- tence certain, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<u></u> ↑↑	2.275 mm color 100% magenta lineweight .25 mm .25 mm .25 mm .25 mm	Place fold trace where axial surface of over- turned anticline intersects		
5.3.18	Overturned anticline (1st option)—Identity or existence questionable, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<u>-; ţţ ;</u>	1.0 mm radius ↓ .75 mm arrow lineweight ≯ 12.0 mm k .2 mm	the ground surface. Place arrows at places along fold trace to indi- cate overall fold type		
5.3.19	Overturned anticline (1st option)—Identity and exis- tence certain, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	₩	3.5 mm → k	(overturned anticline); do not place at specific locality where observa-		
5.3.20	Overturned anticline (1st option)—Identity or existence questionable, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	_;ţţ;	→ + → +	tion was made. Arrowheads may be added to show direction		
5.3.21	Overturned anticline (1st option)—Identity and exis- tence certain, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs		1.5 mm →  <	of plunge (see Section 5.10). Open-arrowed ("2nd		
5.3.22	Overturned anticline (1st option)—Identity or existence questionable, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs	?\$?	:;: ≯k≯k- .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a		
5.3.23	Overturned anticline (1st option)—Identity and exis- tence certain, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	·····	.5 mm →k- 2	particular fold type. May also be shown in black or other colors.		
5.3.24	Overturned anticline (1st option)—Identity or existence questionable, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	<b>?</b> <mark>↑</mark> ?	→ ← → ← .75 mm .75 mm			

	5—FOLDS (continued)				
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
	5.3—Asymmetric,	overturned, and inverted	anticlines (continued)		
5.3.25	Overturned anticline (2nd option)—Identity and exis- tence certain, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<del>\}</del>	2.275 mm color 100% magenta lineweight .25 mm 40° 1.475 mm HB-8	Place fold trace where axial surface of over- turned anticline intersects	
5.3.26	Overturned anticline (2nd option)—Identity or existence questionable, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<u>?_</u> † <u>^</u> ?	1.0 mm radius → 12.0 mm k .2 mm	the ground surface. Place arrows at places along fold trace to indi- cate overall fold type	
5.3.27	Overturned anticline (2nd option)—Identity and exis- tence certain, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	\$*	3.5 mm →i ⊭ 	(overturned anticline); do not place at specific locality where observa-	
5.3.28	Overturned anticline (2nd option)—Identity or existence questionable, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	_ <u>?_</u> ‡ <u>‡</u> _ <u>?</u>	→ ← → ← .75 mm .75 mm	tion was made. Arrowheads may be added to show direction	
5.3.29	Overturned anticline (2nd option)—Identity and exis- tence certain, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs	<del>\</del>	1.5 mm ⇒) <del>k</del>	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.3.30	Overturned anticline (2nd option)—Identity or existence questionable, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs	? <sup>^</sup> _^?	→k →k .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.3.31	Overturned anticline (2nd option)—Identity and exis- tence certain, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	£	.5 mm →k- 	particular fold type. May also be shown in black or other colors.	
5.3.32	Overturned anticline (2nd option)—Identity or existence questionable, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	<b>?</b> <sup>‡</sup> <b>?</b>	*  € *  € .75 mm .75 mm		
5.3.33	Inverted anticline (1st option)—Identity and existence certain, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs		.875 mm radius color 100% magenta lineweight .25 mm .25 mm	Place fold trace where axial surface of inverted anticline intersects the	
5.3.34	Inverted anticline (1st option)—Identity or existence questionable, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs	<u>_; ∳, ;</u>	2.25 mm → 12.0 mm k .2 mm	ground surface. Place arrows at places along fold trace to indi-	
5.3.35	Inverted anticline (1st option)—Identity and existence certain, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	~~	3.5 mm ⇒ k	cate overall fold type (inverted anticline); do not place at specific locality where observa-	
5.3.36	Inverted anticline (1st option)—Identity or existence questionable, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	-;- <sup>\$</sup> ,-	→k ≯k .75 mm .75 mm	tion was made. Arrowheads may be added to show direction	
5.3.37	Inverted anticline (1st option)—Identity and exis- tence certain, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs		1.5 mm → k	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.3.38	Inverted anticline (1st option)—Identity or existence questionable, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs	<u>;</u> - <sup>*</sup> ,	→k~ →k .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.3.39	Inverted anticline (1st option)—Identity and existence certain, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	·····	.5 mm →k	particular fold type. May also be shown in black or other colors.	
5.3.40	Inverted anticline (1st option)—Identity or existence questionable, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	····\$··•\$\\$	·≯ ← ·≯ ← .75 mm .75 mm		
5.3.41	Inverted anticline (2nd option)—Identity and exis- tence certain, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs		.875 mm radius color 100% magenta lineweight .25 mm		
5.3.42	Inverted anticline (2nd option)—Identity or existence questionable, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs	<del>?_∳</del> ∳_?	2.25 mm → 12.0 mm k .2 mm		
5.3.43	Inverted anticline (2nd option)—Identity and existence certain, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	<sub>F</sub> t	3.5 mm ⇒ ⊨ ??		
5.3.44	Inverted anticline (2nd option)—Identity or existence questionable, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	-;- <sub>\$</sub> \$_;	→k ≯k .75 mm .75 mm		
5.3.45	Inverted anticline (2nd option)—Identity and exis- tence certain, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs		1.5 mm ≯ ⊭ 		
5.3.46	Inverted anticline (2nd option)—Identity or existence questionable, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs	<u>;</u> - <u>,</u> -,	→		
5.3.47	Inverted anticline (2nd option)—Identity and existence certain, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs		.5 mm →★←		
5.3.48	Inverted anticline (2nd option)—Identity or existence questionable, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	<b>?</b> <sup>4</sup> , 4	⇒ k → k .75 mm .75 mm		

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	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
		5.4—Antiformal sheath for	olds			
5.4.1	Antiformal sheath fold (1st option)—Identity and existence certain, location accurate		color 100% magenta arrow lineweight .2 mm lineweight .2 mm .25 mm HB-8	Place fold trace where axial surface of antifor- mal sheath fold inter-		
5.4.2	Antiformal sheath fold (1st option)—Identity or exis- tence questionable, location accurate	-???	50° 1.475 mm 12.0 mm   1.25 mm radius	sects the ground sur- face. Place arrows at places along fold trace to indi-		
5.4.3	Antiformal sheath fold (1st option)—Identity and existence certain, location approximate	\$	3.5 mm → ≮ -2_ <b>*</b> 2_	cate overall fold type (antiformal sheath fold); do not place at specific		
5.4.4	Antiformal sheath fold (1st option)—Identity or exis- tence questionable, location approximate	-?\$?	→  ← .75 mm .75 mm	locality where observa- tion was made. Arrowheads may be		
5.4.5	Antiformal sheath fold (1st option)—Identity and existence certain, location inferred	‡	1.5 mm → k	added to show direction of plunge (see Section 5.10).		
5.4.6	Antiformal sheath fold (1st option)—Identity or exis- tence questionable, location inferred	???	→k →k .75 mm .75 mm	Open-arrowed ("2nd option") symbols may be used to show a sec- ond generation or		
5.4.7	Antiformal sheath fold (1st option)—Identity and existence certain, location concealed		.5 mm ≯k-	another instance of a particular fold type. May also be shown in		
5.4.8	Antiformal sheath fold (1st option)—Identity or exis- tence questionable, location concealed			black or other colors.		
5.4.9	Antiformal sheath fold (2nd option)—Identity and existence certain, location accurate		color 100% magenta arrow lineweight .2 mm lineweight 1.5 mm .25 mm HB-8			
5.4.10	Antiformal sheath fold (2nd option)—Identity or existence questionable, location accurate	— <u>;    </u> .	50° 1.475 mm 1.250 mm   1.25 mm radius			
5.4.11	Antiformal sheath fold (2nd option)—Identity and existence certain, location approximate	↓	3.5 mm ⇒ k− 2 ⊄ 2			
5.4.12	Antiformal sheath fold (2nd option)—Identity or existence questionable, location approximate	— <b>;</b> — <sup>4</sup> → — <b>;</b> —	→=			
5.4.13	Antiformal sheath fold (2nd option)—Identity and existence certain, location inferred	∳⊃	1.5 mm ⇒i ≮			
5.4.14	Antiformal sheath fold (2nd option)—Identity or existence questionable, location inferred	;,;	:			
5.4.15	Antiformal sheath fold (2nd option)—Identity and existence certain, location concealed	∳	.5 mm ≯k			
5.4.16	Antiformal sheath fold (2nd option)—Identity or existence questionable, location concealed		⇒ k → k .75 mm .75 mm			

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	5—FOLDS (continued)				
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
		5.5—Synclines			
5.5.1	Syncline (1st option)—Identity and existence cer- tain, location accurate	¥	arrow lineweight color 100% magenta .2 mm 40°/ HB-8	Place fold trace where axial surface of syncline intersects the ground	
5.5.2	Syncline (1st option)—Identity or existence ques- tionable, location accurate	<u>?                                   </u>	lineweight 7, 17, 75 mm .25 mm 2.725 mm → 12.0 mm ← 1.475 mm	surface. Place arrows at places along fold trace to indi- cate overall fold type	
5.5.3	Syncline (1st option)—Identity and existence cer- tain, location approximate		3.5 mm ⇒i ≮ 	(syncline); do not place at specific locality where observation was	
5.5.4	Syncline (1st option)—Identity or existence ques- tionable, location approximate	_?¥?	* * ← -> ← .75 mm	made. Arrowheads may be added to show direction	
5.5.5	Syncline (1st option)—Identity and existence cer- tain, location inferred	¥	1.5 mm ⇒  ≮-	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.5.6	Syncline (1st option)—Identity or existence ques- tionable, location inferred	?¥?	· 커논 .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.5.7	Syncline (1st option)—Identity and existence cer- tain, location concealed	¥	.5 mm ⇒l≪ 2	particular fold type. May also be shown in black or other colors.	
5.5.8	Syncline (1st option)—Identity or existence ques- tionable, location concealed	···?···	-≯ ← -≯ ← .75 mm .75 mm		
5.5.9	Syncline (2nd option)—Identity and existence cer- tain, location accurate	¥	arrow lineweight color 100% magenta .2 mm 40°/ HB-8		
5.5.10	Syncline (2nd option)—Identity or existence ques- tionable, location accurate	<u></u>	lineweight .25 mm 2.725 mm → 12.0 mm ← 1.475 mm		
5.5.11	Syncline (2nd option)—Identity and existence cer- tain, location approximate	—— <u> </u>	3.5 mm ⇒i k- 2 ↓ 2		
5.5.12	Syncline (2nd option)—Identity or existence ques- tionable, location approximate	— <u>;</u> — <del>↓</del> —;—	→ ☆ → ↓ - 거 ← → ↓ ← .75 mm .75 mm		
5.5.13	Syncline (2nd option)—Identity and existence cer- tain, location inferred	¥	1.5 mm ≯ ⊭ 		
5.5.14	Syncline (2nd option)—Identity or existence ques- tionable, location inferred	? ¥?	: ≯k- →k- .75 mm .75 mm		
5.5.15	Syncline (2nd option)—Identity and existence cer- tain, location concealed		.5 mm ≯k~		
5.5.16	Syncline (2nd option)—Identity or existence ques- tionable, location concealed	····?···¥····?···	.75 mm .75 mm		

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	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
		5.6—Synforms	-			
5.6.1	Synform (1st option)—Identity and existence cer- tain, location accurate	<b>*</b>	arrow lineweight color 100% magenta .2 mm 60°/ HB-8	Place fold trace where axial surface of synform intersects the ground		
5.6.2	Synform (1st option)—Identity or existence ques- tionable, location accurate	-? * ?	lineweight / / / / / .75 mm .25 mm 2.725 mm → 12.0 mm ← 1.475 mm	surface. Place arrows at places along fold trace to indi- cate overall fold type		
5.6.3	Synform (1st option)—Identity and existence cer- tain, location approximate	*	3.5 mm ⇒i k÷	(synform); do not place at specific locality where observation was		
5.6.4	Synform (1st option)—Identity or existence ques- tionable, location approximate	_?¥?	אר אר זאר אר. ז5 mm .75 mm	made. Arrowheads may be added to show direction		
5.6.5	Synform (1st option)—Identity and existence cer- tain, location inferred	<b>‡</b>	1.5 mm → k	of plunge (see Section 5.10). Open-arrowed ("2nd		
5.6.6	Synform (1st option)—Identity or existence ques- tionable, location inferred	<u>?</u> <b>‡</b> <u>?</u>	→k- →k- .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a		
5.6.7	Synform (1st option)—Identity and existence cer- tain, location concealed	<b>x</b>	.5 mm ⇒k≈	particular fold type. May also be shown in black or other colors.		
5.6.8	Synform (1st option)—Identity or existence ques- tionable, location concealed	···?···\$	→ ← → ← .75 mm .75 mm			
5.6.9	Synform (2nd option)—Identity and existence cer- tain, location accurate		arrow lineweight color 100% magenta .2 mm 60°/ HB-8			
5.6.10	Synform (2nd option)—Identity or existence ques- tionable, location accurate	- <u>;                                    </u>	lineweight .25 mm 2.725 mm → 12.0 mm ⊨ 1.475 mm			
5.6.11	Synform (2nd option)—Identity and existence cer- tain, location approximate	—— <u>¥</u> ——	3.5 mm ⇒ k			
5.6.12	Synform (2nd option)—Identity or existence ques- tionable, location approximate	—;— ¥_—;—	→			
5.6.13	Synform (2nd option)—Identity and existence cer- tain, location inferred	¥	1.5 mm ≯ ₩			
5.6.14	Synform (2nd option)—Identity or existence ques- tionable, location inferred	? \zeta?	→:			
5.6.15	Synform (2nd option)—Identity and existence cer- tain, location concealed	¥	.5 mm ≯ke 			
5.6.16	Synform (2nd option)—Identity or existence ques- tionable, location concealed	····\$···\$	→ ← → ← .75 mm .75 mm			

	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
	5.7—Asymn	netric, overturned, and inv	verted synclines			
5.7.1	Asymmetric syncline (1st option)—Identity and existence certain, location accurate. Beds are upright; shorter arrow on steeper limb	<del>`</del>	color 100% magenta lineweight .25 mm .25 mm .25 mm .25 mm .25 mm	Place fold trace where axial surface of asym- metric syncline intersects		
5.7.2	Asymmetric syncline (1st option)—Identity or exis- tence questionable, location accurate. Beds are upright; shorter arrow on steeper limb	- <u>? </u> * ?	3.5 mm → 12.0 mm k .2 mm	the ground surface. Place arrows at places along fold trace to indi-		
5.7.3	Asymmetric syncline (1st option)—Identity and existence certain, location approximate. Beds are upright; shorter arrow on steeper limb	+	3.5 mm ⇒ k	cate overall fold type (asymmetric syncline); do not place at specific locality where observa-		
5.7.4	Asymmetric syncline (1st option)—Identity or exis- tence questionable, location approximate. Beds are upright; shorter arrow on steeper limb	_?*?	→ →k- →k- .75 mm .75 mm	tion was made. Arrowheads may be added to show direction		
5.7.5	Asymmetric syncline (1st option)—Identity and existence certain, location inferred. Beds are upright; shorter arrow on steeper limb	¥	1.5 mm → k-	of plunge (see Section 5.10). Open-arrowed ("2nd		
5.7.6	Asymmetric syncline (1st option)—Identity or exis- tence questionable, location inferred. Beds are upright; shorter arrow on steeper limb	<u>?</u> - <u></u> ¥ <u>?</u> -	· 커논 · 커논 .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a		
5.7.7	Asymmetric syncline (1st option)—Identity and existence certain, location concealed. Beds are upright; shorter arrow on steeper limb	¥	.5 mm ⇒l <del>k</del>	particular fold type. May also be shown in black or other colors.		
5.7.8	Asymmetric syncline (1st option)—Identity or exis- tence questionable, location concealed. Beds are upright; shorter arrow on steeper limb	···?··.	→ k .75 mm .75 mm			
5.7.9	Asymmetric syncline (2nd option)—Identity and existence certain, location accurate. Beds are upright; shorter arrow on steeper limb	¥	color 100% magenta lineweight 2.25 mm 40° 1.475 mm .25 mm 40° HB-8			
5.7.10	Asymmetric syncline (2nd option)—Identity or exis- tence questionable, location accurate. Beds are upright; shorter arrow on steeper limb	<u>?_</u> *_?	3.5 mm → 12.0 mm ← .2 mm			
5.7.11	Asymmetric syncline (2nd option)—Identity and existence certain, location approximate. Beds are upright; shorter arrow on steeper limb	—— <u>+</u> ——	3.5 mm ⇒i k-			
5.7.12	Asymmetric syncline (2nd option)—Identity or exis- tence questionable, location approximate. Beds are upright; shorter arrow on steeper limb	_? <u>‡</u> _?	אריי אריי אריי אריי אריי אריי ד5 mm .75 mm.			
5.7.13	Asymmetric syncline (2nd option)—Identity and existence certain, location inferred. Beds are upright; shorter arrow on steeper limb	¥	1.5 mm →   <del>  </del>			
5.7.14	Asymmetric syncline (2nd option)—Identity or exis- tence questionable, location inferred. Beds are upright; shorter arrow on steeper limb	<b>?</b> ¥ <b>?</b>	· 커논 · 커논 .75 mm .75 mm			
5.7.15	Asymmetric syncline (2nd option)—Identity and existence certain, location concealed. Beds are upright; shorter arrow on steeper limb	·····¥·····	.5 mm ⊰l≪ 			
5.7.16	Asymmetric syncline (2nd option)—Identity or exis- tence questionable, location concealed. Beds are upright; shorter arrow on steeper limb	····\$···\$	-≯ ← .75 mm .75 mm			
5.7.17	Overturned syncline (1st option)—Identity and exis- tence certain, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	₹≯	2.275 mm color 100% magenta lineweight .25 mm HB-8	Place fold trace where axial surface of over- turned syncline inter-		
5.7.18	Overturned syncline (1st option)—Identity or existence questionable, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<u>-;                                    </u>	1.0 mm radius arrow lineweight → 12.0 mm ← .2 mm	sects the ground sur- face. Place arrows at places		
5.7.19	Overturned syncline (1st option)—Identity and exis- tence certain, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs		3.5 mm → k	along fold trace to indi- cate overall fold type (overturned syncline); do not place at specific		
5.7.20	Overturned syncline (1st option)—Identity or existence questionable, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	_;_ <b>⋠</b> ∔_;_	? →k	locality where observa- tion was made. Arrowheads may be		
5.7.21	Overturned syncline (1st option)—Identity and exis- tence certain, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs		1.5 mm → ←	added to show direction of plunge (see Section 5.10).		
5.7.22	Overturned syncline (1st option)—Identity or existence questionable, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs		!!! ≯k	Open-arrowed ("2nd option") symbols may be used to show a sec-		
5.7.23	Overturned syncline (1st option)—Identity and exis- tence certain, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	ŧ.ŧ	.5 mm ⇒l≪	ond generation or another instance of a particular fold type. May also be shown in		
5.7.24	Overturned syncline (1st option)—Identity or existence questionable, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs		⇒ k- → k- .75 mm .75 mm	black or other colors.		

	5—FOLDS (continued)				
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
	5.7—Asymmetric,	overturned, and inverted	synclines (continued)		
5.7.25	Overturned syncline (2nd option)—Identity and exis- tence certain, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	₹	lineweight .25 mm	Place fold trace where axial surface of over- turned syncline intersects	
5.7.26	Overturned syncline (2nd option)—Identity or existence questionable, location accurate. Beds on one limb are overturned; arrows show dip direction of limbs	<del>?∳?</del>	1.0 mm radius → 12.0 mm k .2 mm	the ground surface. Place arrows at places along fold trace to indi- cate overall fold type	
5.7.27	Overturned syncline (2nd option)—Identity and exis- tence certain, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	₹	3.5 mm → k ↓↓	(overturned syncline); do not place at specific locality where observa-	
5.7.28	Overturned syncline (2nd option)—Identity or existence questionable, location approximate. Beds on one limb are overturned; arrows show dip direction of limbs	—;— ≰ <b></b> ‡ —;—		tion was made. Arrowheads may be added to show direction	
5.7.29	Overturned syncline (2nd option)—Identity and exis- tence certain, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs	<del>\</del>	1.5 mm ⇒i k~	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.7.30	Overturned syncline (2nd option)—Identity or existence questionable, location inferred. Beds on one limb are overturned; arrows show dip direction of limbs	<u>;</u> ≰‡ <u>;</u>	→k →k .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.7.31	Overturned syncline (2nd option)—Identity and exis- tence certain, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs		.5 mm ⊰k~ 	particular fold type. May also be shown in black or other colors.	
5.7.32	Overturned syncline (2nd option)—Identity or existence questionable, location concealed. Beds on one limb are overturned; arrows show dip direction of limbs	····\$··.\$.	*  € *  € .75 mm .75 mm		
5.7.33	Inverted syncline (1st option)—Identity and existence certain, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs		.875 mm radius color 100% magenta lineweight .25 mm	Place fold trace where axial surface of inverted syncline intersects the	
5.7.34	Inverted syncline (1st option)—Identity or existence questionable, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs	<u>; ↓, ;</u>	2.25 mm → 12.0 mm k .75 mm 2.25 mm	ground surface. Place arrows at places along fold trace to indi-	
5.7.35	Inverted syncline (1st option)—Identity and existence certain, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	\$^	3.5 mm ⊰ ≮	cate overall fold type (inverted syncline); do not place at specific locality where observa-	
5.7.36	Inverted syncline (1st option)—Identity or existence questionable, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	-;-¢j-;-	→← →← →k →k .75 mm .75 mm	tion was made. Arrowheads may be added to show direction	
5.7.37	Inverted syncline (1st option)—Identity and exis- tence certain, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs		1.5 mm → k	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.7.38	Inverted syncline (1st option)—Identity or existence questionable, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs	<u>;</u> - <del>^</del>	→k~ →k .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.7.39	Inverted syncline (1st option)—Identity and existence certain, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	·····	.5 mm →k~	particular fold type. May also be shown in black or other colors.	
5.7.40	Inverted syncline (1st option)—Identity or existence questionable, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	····\$··\$	· ≯ ← · → ← .75 mm .75 mm		
5.7.41	Inverted syncline (2nd option)—Identity and exis- tence certain, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs		.875 mm radius color 100% magenta lineweight .25 mm		
5.7.42	Inverted syncline (2nd option)—Identity or existence questionable, location accurate. Beds on both limbs are overturned; arrows show dip direction of limbs	_ <del>```}_}`?</del>	2.25 mm → 12.0 mm k .2 mm		
5.7.43	Inverted syncline (2nd option)—Identity and existence certain, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs		3.5 mm ⇒ + ►		
5.7.44	Inverted syncline (2nd option)—Identity or existence questionable, location approximate. Beds on both limbs are overturned; arrows show dip direction of limbs	_;_∱_;_	→k ≯k .75 mm .75 mm		
5.7.45	Inverted syncline (2nd option)—Identity and exis- tence certain, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs	ţ-ţ	1.5 mm ⇒ k 2		
5.7.46	Inverted syncline (2nd option)—Identity or existence questionable, location inferred. Beds on both limbs are overturned; arrows show dip direction of limbs	- <u>-;</u> -ţ,-;	→		
5.7.47	Inverted syncline (2nd option)—Identity and existence certain, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	Ð	.5 mm → <del> </del> ≪		
5.7.48	Inverted syncline (2nd option)—Identity or existence questionable, location concealed. Beds on both limbs are overturned; arrows show dip direction of limbs	<b>?</b> ţ <b>?</b>	→  ← .75 mm .75 mm		

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	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
		5.8—Synformal sheath for	olds			
5.8.1	Synformal sheath fold (1st option)—Identity and existence certain, location accurate		1.475 mm ⇒ ⊨ HB-8	Place fold trace where axial surface of synfor- mal sheath fold inter-		
5.8.2	Synformal sheath fold (1st option)—Identity or exis- tence questionable, location accurate	- <u>;</u> ;-	lineweight 1.5 mm .25 mm 1.20 mm 1.25 mm radius	sects the ground sur- face. Place arrows at places along fold trace to indi-		
5.8.3	Synformal sheath fold (1st option)—Identity and existence certain, location approximate	>	3.5 mm → ⊭	cate overall fold type (synformal sheath fold); do not place at specific		
5.8.4	Synformal sheath fold (1st option)—Identity or exis- tence questionable, location approximate	-; <b>)</b> -;	····································	locality where observa- tion was made. Arrowheads may be		
5.8.5	Synformal sheath fold (1st option)—Identity and existence certain, location inferred		1.5 mm ⇒   ←	added to show direction of plunge (see Section 5.10).		
5.8.6	Synformal sheath fold (1st option)—Identity or exis- tence questionable, location inferred		→k~ →k~ .75 mm .75 mm	Open-arrowed ("2nd option") symbols may be used to show a sec- ond generation or		
5.8.7	Synformal sheath fold (1st option)—Identity and existence certain, location concealed		.5 mm →₩~	another instance of a particular fold type. May also be shown in		
5.8.8	Synformal sheath fold (1st option)—Identity or exis- tence questionable, location concealed		★	black or other colors.		
5.8.9	Synformal sheath fold (2nd option)—Identity and existence certain, location accurate		color 100% magenta arrow lineweight .2 mm 1.475 mm/ HB-8			
5.8.10	Synformal sheath fold (2nd option)—Identity or existence questionable, location accurate	_ <u>;</u>	lineweight 1.5 mm .25 mm → 12.0 mm   1.25 mm radius			
5.8.11	Synformal sheath fold (2nd option)—Identity and existence certain, location approximate	>	3.5 mm → ★			
5.8.12	Synformal sheath fold (2nd option)—Identity or existence questionable, location approximate	_;_⊳;	→k →k .75 mm .75 mm			
5.8.13	Synformal sheath fold (2nd option)—Identity and existence certain, location inferred		1.5 mm ≯ ⊭			
5.8.14	Synformal sheath fold (2nd option)—Identity or existence questionable, location inferred	<u>;</u> - <u>-</u> ,;	→			
5.8.15	Synformal sheath fold (2nd option)—Identity and existence certain, location concealed	····· ك	.5 mm ⇒l <del>k</del>			
5.8.16	Synformal sheath fold (2nd option)—Identity or existence questionable, location concealed	?.⊳	→ ← → ← .75 mm .75 mm			

#### 5—FOLDS (continued) **REF NO** DESCRIPTION **CARTOGRAPHIC SPECIFICATIONS\*** NOTES ON USAGE\* SYMBOL 5.9--Monoclines color 100% magenta Use to show monocline Monocline (1st option)-Identity and existence cerarrow lineweight .2 mm Δſŕ .1.475 mm whose anticlinal and 5.9.1 tain, location accurate. Arrow shows direction of V -- HB-8 synclinal bends are too dip 5.0 close together at map mm Monocline (1st option)—Identity or existence ques-₩.75 mm Ą scale to show as sepa-592 tionable, location accurate. Arrow shows direction eight rate fold traces. of dip ⇒ 12.0 mm 🗧 .25 mm Place fold trace where Monocline (1st option)—Identity and existence cerdip of surface connect-3.5 mm 5.9.3 tain, location approximate. Arrow shows direction ing anticlinal and syncliof dip nal bends is at its maxi-Monocline (1st option)—Identity or existence quesmum angle. 5.9.4 tionable, location approximate. Arrow shows direc-→|← →|← .75 mm .75 mm Place arrow at places tion of dip along fold trace to indicate overall fold type Monocline (1st option)-Identity and existence cer-1.5 mm → 😽 (monocline); do not 5.9.5 tain, location inferred. Arrow shows direction of dip place at specific locality where observation was Monocline (1st option)—Identity or existence ques-->|← .75 mm made. 5.9.6 tionable, location inferred. Arrow shows direction .75<sup>'m</sup>m Arrowheads may be of dip added to show direction Monocline (1st option)—Identity and existence cerof plunge (see Section .5 mm tain, location concealed. Arrow shows direction of 5.9.7 5.10). ≯⊧ dip Open-arrowed ("2nd 2 Monocline (1st option)—Identity or existence quesoption") symbols may ->|← .75 mm 5.9.8 tionable, location concealed. Arrow shows direcbe used to show a sec-.75 mm tion of dip ond generation or another instance of a color 100% magenta Monocline (2nd option)—Identity and existence cerarrow lineweight 40<sup>4</sup> .2 mm .1.475 mm particular fold type. 5.9.9 tain, location accurate. Arrow shows direction of - HB-8 May also be shown in dip 50 black or other colors. тm Monocline (2nd option)—Identity or existence ques-₩.75 mm Λ tionable, location accurate. Arrow shows direction 5.9.10 lineweight of dip ᢣ 12.0 mm 😽 .25 mm Monocline (2nd option)—Identity and existence cer-3.5 mm 5.9.11 tain, location approximate. Arrow shows direction of dip Monocline (2nd option)—Identity or existence questionable, location approximate. Arrow shows direc-5.9.12 75 mm 75 mm tion of dip Monocline (2nd option)—Identity and existence cer-5.9.13 1.5 mm tain, location inferred. Arrow shows direction of dip ≯⊧ Monocline (2nd option)—Identity or existence ques--<del>>|≮</del> .75 mm tionable, location inferred. Arrow shows direction 5.9.14 .75 mm of dip Monocline (2nd option)-Identity and existence cer-.5 mm tain, location concealed. Arrow shows direction of 5.9.15 ≯⊧ dip 2 Monocline (2nd option)—Identity or existence questionable, location concealed. Arrow shows direc-5.9.16 .75 mm .75 mm tion of dip color 100% magenta Place fold trace where Monocline, anticlinal bend (1st option)-Identity and 2.25 mm 40 existence certain, location accurate. Arrows show .1.475 mm axial surface of anticlinal 5.9.17 lineweigh .25 mm - HB-8 direction of dip; shorter arrow on steeper limb bend of monocline intersects the ground surface. Monocline, anticlinal bend (1st option)-Identity or ₩.75 mm 3.5 mm Place arrows at places existence questionable, location accurate. Arrows 5918 arrow lineweigh ÷ .2 mm along fold trace to indishow direction of dip; shorter arrow on steeper limb ⇒ 12.0 mm 🗧 cate overall fold type Monocline, anticlinal bend (1st option)-Identity and (anticlinal bend of mono-5.9.19 existence certain, location approximate. Arrows cline): do not place at show direction of dip; shorter arrow on steeper limb specific locality where Monocline, anticlinal bend (1st option)-Identity or observation was made. existence questionable, location approximate. Arrows 5.9.20 .75 mm .75 mm Arrowheads may be show direction of dip; shorter arrow on steeper limb added to show direction of plunge (see Section Monocline, anticlinal bend (1st option)-Identity and 1.5 mm → <del>|<</del> 5.10). existence certain, location inferred. Arrows show 5.9.21 direction of dip; shorter arrow on steeper limb Open-arrowed ("2nd ? option") symbols may Monocline, anticlinal bend (1st option)-Identity or be used to show a sec-5.9.22 existence questionable, location inferred. Arrows .75 mm .75 mm ond generation or show direction of dip; shorter arrow on steeper limb another instance of a Monocline, anticlinal bend (1st option)-Identity and particular fold type. 5 mm existence certain, location concealed. Arrows show 5.9.23 May also be shown in ≯⊧ direction of dip; shorter arrow on steeper limb black or other colors. . 2 . 2. . . Monocline, anticlinal bend (1st option)—Identity or ->|← .75 mm existence questionable, location concealed. Arrows 5.9.24 <u></u>. .75 mm show direction of dip; shorter arrow on steeper limb

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	5—FOLDS (continued)				
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*	
		5.9—Monoclines (continu	ued)		
5.9.25	Monocline, anticlinal bend (2nd option)—Identity and existence certain, location accurate. Arrows show direction of dip; shorter arrow on steeper limb		lineweight 2.25 mm 40° 1.475 mm .25 mm 40° 1.475 mm	Place fold trace where axial surface of anticlinal bend of monocline inter- sects the ground surface.	
5.9.26	Monocline, anticlinal bend (2nd option)—Identity or existence questionable, location accurate. Arrows show direction of dip; shorter arrow on steeper limb	<u>?_</u> ?	3.5 mm → 7 → 7.75 mm arrow lineweight → 12.0 mm ← .2 mm	Place arrows at places along fold trace to indi- cate overall fold type	
5.9.27	Monocline, anticlinal bend (2nd option)—Identity and existence certain, location approximate. Arrows show direction of dip; shorter arrow on steeper limb	— <u></u>	3.5 mm → ★	(anticlinal bend of mono- cline); do not place at specific locality where	
5.9.28	Monocline, anticlinal bend (2nd option)—Identity or existence questionable, location approximate. Arrows show direction of dip; shorter arrow on steeper limb	_ <u>?_</u> ‡ _ <u>?</u> _	→k →k .75 mm .75 mm	observation was made. Arrowheads may be added to show direction	
5.9.29	Monocline, anticlinal bend (2nd option)—Identity and existence certain, location inferred. Arrows show direction of dip; shorter arrow on steeper limb		1.5 mm → <del>  &lt;</del>	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.9.30	Monocline, anticlinal bend (2nd option)—Identity or existence questionable, location inferred. Arrows show direction of dip; shorter arrow on steeper limb	<u>?</u> <u></u>	→	option") symbols may be used to show a sec- ond generation or another instance of a	
5.9.31	Monocline, anticlinal bend (2nd option)—Identity and existence certain, location concealed. Arrows show direction of dip; shorter arrow on steeper limb		.5 mm →k~ 	particular fold type. May also be shown in black or other colors.	
5.9.32	Monocline, anticlinal bend (2nd option)—Identity or existence questionable, location concealed. Arrows show direction of dip; shorter arrow on steeper limb	····?···.?···	→ ← → ← .75 mm .75 mm		
5.9.33	Monocline, synclinal bend (1st option)—Identity and existence certain, location accurate. Arrows show direction of dip; shorter arrow on steeper limb		3.5 mm 40° color 100% magenta lineweight .25 mm .25 mm .25 mm	Place fold trace where axial surface of synclinal bend of monocline inter-	
5.9.34	Monocline, synclinal bend (1st option)—Identity or existence questionable, location accurate. Arrows show direction of dip; shorter arrow on steeper limb	_ <del>````````````````````````````````````</del>	2.25 mm → 12.0 mm ← .2 mm	sects the ground surface. Place arrows at places along fold trace to indi-	
5.9.35	Monocline, synclinal bend (1st option)—Identity and existence certain, location approximate. Arrows show direction of dip; shorter arrow on steeper limb		3.5 mm → ≮	cate overall fold type (synclinal bend of mono- cline); do not place at specific locality where	
5.9.36	Monocline, synclinal bend (1st option)—Identity or existence questionable, location approximate. Arrows show direction of dip; shorter arrow on steeper limb	_? <u></u> ‡?	→ ★	observation was made. Arrowheads may be added to show direction	
5.9.37	Monocline, synclinal bend (1st option)—Identity and existence certain, location inferred. Arrows show direction of dip; shorter arrow on steeper limb		1.5 mm → <del>  &lt;</del>	of plunge (see Section 5.10). Open-arrowed ("2nd	
5.9.38	Monocline, synclinal bend (1st option)—Identity or existence questionable, location inferred. Arrows show direction of dip; shorter arrow on steeper limb		→k~ →k .75 mm .75 mm	option") symbols may be used to show a sec- ond generation or another instance of a	
5.9.39	Monocline, synclinal bend (1st option)—Identity and existence certain, location concealed. Arrows show direction of dip; shorter arrow on steeper limb		.5 mm ⇒lk-	particular fold type. May also be shown in black or other colors.	
5.9.40	Monocline, synclinal bend (1st option)—Identity or existence questionable, location concealed. Arrows show direction of dip; shorter arrow on steeper limb	<u>?</u> <u></u> , <u>?</u> ?	→ ← → ← .75 mm .75 mm		
5.9.41	Monocline, synclinal bend (2nd option)—Identity and existence certain, location accurate. Arrows show direction of dip; shorter arrow on steeper limb		lineweight 40° color 100% magenta 1.475 mm .25 mm		
5.9.42	Monocline, synclinal bend (2nd option)—Identity or existence questionable, location accurate. Arrows show direction of dip; shorter arrow on steeper limb	_ <u>? </u> } ?	2.25 mm → 12.0 mm k .2 mm		
5.9.43	Monocline, synclinal bend (2nd option)—Identity and existence certain, location approximate. Arrows show direction of dip; shorter arrow on steeper limb	‡	3.5 mm → κ		
5.9.44	Monocline, synclinal bend (2nd option)—Identity or existence questionable, location approximate. Arrows show direction of dip; shorter arrow on steeper limb	_ <u>?_</u> ‡_?	→		
5.9.45	Monocline, synclinal bend (2nd option)—Identity and existence certain, location inferred. Arrows show direction of dip; shorter arrow on steeper limb	‡	1.5 mm ≯ ≮ ↑		
5.9.46	Monocline, synclinal bend (2nd option)—Identity or existence questionable, location inferred. Arrows show direction of dip; shorter arrow on steeper limb	_ <u>-</u> ? ‡?			
5.9.47	Monocline, synclinal bend (2nd option)—Identity and existence certain, location concealed. Arrows show direction of dip; shorter arrow on steeper limb	¢	.5 mm -≯≪ A		
5.9.48	Monocline, synclinal bend (2nd option)—Identity or existence questionable, location concealed. Arrows show direction of dip; shorter arrow on steeper limb	···?··	→k →k .75 mm .75 mm		

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	5—FOLDS (continued)					
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*		
	5.10—Line-symbol decorations and notations for folds					
5.10.1	Fold having inclined axial surface (1st option)—Tick shows dip value and direction		mm; lineweight	Although only shown here on anticlines, line- symbol decorations and		
5.10.2	Fold having inclined axial surface (2nd option)— Tick shows dip value and direction		HI-6 (100% black) 15 tick length 1.375 .875 mm 7 mm; lineweight .175 mm; color 30 100% magenta			
5.10.3	Fold having vertical or near-vertical axial surface (1st option)	<b>\$</b>	.175 mm; color	Add arrowhead or '90' to ticks showing dip if necessary for clarity. Place where observa-		
5.10.4	Fold having vertical or near-vertical axial surface (2nd option)	90	HI-6 (100% black)	tion was made.		
5.10.5	Plunging anticline—Large arrowhead shows direc- tion of plunge	<	1.5 mm	Although only shown here on anticlines abd synclines, line-symbol		
5.10.6	Doubly plunging anticline	↓ ↓ ↓	color 100% magenta	decorations and nota- tions may be added to any type or style of fold.		
5.10.7	Plunging syncline—Large arrowhead shows direc- tion of plunge	► <u></u>	1.5 mm → K 60 <sup>c1</sup> color 100% magenta	Place arrowhead(s) showing plunge at end(s) of, or along, any type or style of fold to		
5.10.8	Doubly plunging syncline	► <b>†</b>	color 100% magenta	indicate general plunge direction(s); do not add plunge angle.		
5.10.9	Fold having near-vertical fold limbs—Half-circle shows direction of closure		radius 1.25 mm; lineweight 2 mm; color 100% magenta	Although only shown here on anticlines abd synclines, line-symbol		
5.10.10	Crest line (CL) of fold where it diverges from axial surface of anticline		line and text color spacing .5 mm; 100% magenta lineweight .2 mm	decorations and nota- tions may be added to any type or style of fold.		
5.10.11	Trough line (TL) of fold where it diverges from axial surface of syncline	TL	H-7 Cash length 2.0 mm; 100% magenta line weight .2 mm			
5.10.12	Fold—Showing name		PIKE ANTICLINE <sup>#</sup> H-8 text color 100% magenta	Letter size or spacing may be increased on longer fold segments.		

5.11.1

5.11.2

#### 5—FOLDS (continued) REF NO DESCRIPTION CARTOGRAPHIC SPECIFICATIONS\* NOTES ON USAGE\* SYMBOL 5.11—Small, minor folds color 100% magenta crossbar lineweight .25 mm Use when beds are too Small, minor fold, horizontal axial surface $\oplus$ tightly folded to show $\oplus$ traces of individual folds circle diameter 3.0 mm; lineweight .2 mm or when small, minor folds are observed in outcrop but cannot be \_<u>↓</u> 5.5 mm color 100% magenta \/40° // lineweight .2 mm Small, minor dome ᠿ

		· · · · · · · · · · · · · · · · · · ·	<u>→</u> <sup>1.475</sup> mm	traced away from that
5.11.3	Small, minor basin	*	color 100% magenta 5.5 ↓ /40° lineweight .2 mm ★ 1.475 mm	outcrop. Open-arrowed ("2nd
5.11.4	Small, minor anticline, vertical or near-vertical axial surface (1st option)—Showing strike	÷	Color 2.75 mm ↓ \/40° — arrow lineweight 100% 2.75 mm ↓ \/40° — arrow lineweight .2 mm 1.475 mm	option") symbols may be used to show a sec- ond generation or another instance of a
5.11.5	Small, minor anticline, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) >35 tick length 1.75	particular fold type. May also be shown in black or other colors.
5.11.6	Small, minor anticline, vertical or near-vertical axial surface (2nd option)—Showing strike		color 2.75 mm $\sqrt{400}$ arrow lineweight 100% .2 mm magenta $\frac{4}{5}$ 6.0 $1.475$ mm 2.75 mm $\frac{1}{5}$ lineweight .25 mm	
5.11.7	Small, minor anticline, inclined axial surface (2nd option)—Showing strike and dip		HI-6 (100% black) → 35 tick length 1.75 ↓ ← mm, lineweight 2 mm; color → 9.0 mm ⊨ 100% magenta	
5.11.8	Small, minor antiform, vertical or near-vertical axial surface (1st option)—Showing strike	÷	color 2.75 mm ↓ 60° arrow lineweight 100% _2 mm magenta ↓ 6.0 ↓ 1.475 mm 2.75 mm ★ mm ↓ ⊨ lineweight .25 mm	
5.11.9	Small, minor antiform, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) → 35 tick length 1.75 → 35 tick length 1.75 → 30 mm k; color → 9.0 mm k; 100% magenta	
5.11.10	Small, minor antiform, vertical or near-vertical axial surface (2nd option)—Showing strike		color 2.75 mm ↓ 60° — arrow lineweight 100%2 mm magenta6.0 ↓ 1.475 mm 2.75 mm ★ mm → k lineweight .25 mm	
5.11.11	Small, minor antiform, inclined axial surface (2nd option)—Showing strike and dip		HI-6 (100% black) → 35 tick length 1.75 mr; lineweight 2 mr; color → 9.0 mm \ 100% magenta	
5.11.12	Small, minor asymmetric anticline, vertical or near- vertical axial surface (1st option)—Showing strike	<b>•</b>	color 2.25 mm V40° arrow lineweight 100% 2.25 mm 1.475 mm agenta 6.0 for intervence inte	
5.11.13	Small, minor asymmetric anticline, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) 9.0 mm H + 100% magenta	
5.11.14	Small, minor asymmetric anticline, vertical or near- vertical axial surface (2nd option)—Showing strike		color 2.25 mm √40° — arrow lineweight   100% 2 mm   magenta 6.0   3.5 mm mm	
5.11.15	Small, minor asymmetric anticline, inclined axial surface (2nd option)—Showing strike and dip		HI-6 (100% black) 9.0 mm H V L 2 mm; color 100% magenta	
5.11.16	Small, minor overturned anticline, vertical or near- vertical axial surface (1st option)—Showing strike	<u>_</u>	color 2.275 mm V40 — arrow lineweight 100% 1.0 mm - 1.475 mm 6.0 mm - 1.475 mm	
5.11.17	Small, minor overturned anticline, inclined axial sur- face (1st option)—Showing strike and dip	35 	HI-6 (100% black) →35 tick length 1.75 mm; lineweight .2 mm; color → 9.0 mm ⊮ 100% magenta	
5.11.18	Small, minor overturned anticline, vertical or near- vertical axial surface (2nd option)—Showing strike	<u>_</u>	color 2.275 mm V40 — arrow lineweight 100% 1.0 mm - 1.475 mm 6.0 mm - 1.475 mm	
5.11.19	Small, minor overturned anticline, inclined axial sur- face (2nd option)—Showing strike and dip	<u>*</u> * <sup>35</sup>	HI-6 (100% black) → 35 tick length 1.75 → 1 ← mr; lineweight .2 mr; color → 9.0 mm ⊮ 100% magenta	
5.11.20	Small, minor inverted anticline, vertical or near- vertical axial surface (1st option)—Showing strike	<del>∧'</del> t	color .875 mm \407 _ arrow lineweight 100% _ radius2 mm magenta _ 6.0 2.25 mm _ l.475 mm	
5.11.21	Small, minor inverted anticline, inclined axial sur- face (1st option)—Showing strike and dip	35	HI-6 (100% black) → 35 tick length 1.75 → 10 mm; lineweight .2 mm; color → 9.0 mm \key 100% magenta	
5.11.22	Small, minor inverted anticline, vertical or near- vertical axial surface (2nd option)—Showing strike	<del>₽</del> *	color .875 mm 407 arrow lineweight 100% radius .2 mm magenta 6.0 2.25 mm k lineweight .25 mm	
5.11.23	Small, minor inverted anticline, inclined axial sur- face (2nd option)—Showing strike and dip	35 A	HI-6 (100% black) → 35 tick length 1.75 → 1 ← mm, lineweight 2 mm; color → 9.0 mm ⊨ 100% magenta	
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5—FOLDS (continued)							
REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*			
5.11—Small, minor folds (continued)							
5.11.24	Small, minor syncline, vertical or near-vertical axial surface (1st option)—Showing strike	*	color     2.75 mm     ↓407     arrow lineweight       100%     2 mm     .2 mm       arrow lineweight     .2 mm     .2 mm       2.75 mm     4 6.0     .4175 mm       2.75 mm     k lineweight     .25 mm	Use when beds are too tightly folded to show traces of individual folds			
5.11.25	Small, minor syncline, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) →35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm ⊮ 100% magenta	or when small, minor folds are observed in outcrop but cannot be traced away from that			
5.11.26	Small, minor syncline, vertical or near-vertical axial surface (2nd option)—Showing strike		color     2.75 mm     ↓ <sup>407</sup> arrow lineweight       100%     2 mm     .2 mm       magenta     6.0 for the second sec	outcrop. Open-arrowed ("2nd option") symbols may			
5.11.27	Small, minor syncline, inclined axial surface (2nd option)—Showing strike and dip	35	HI-6 (100% black) → 35	be used to show a sec- ond generation or another instance of a			
5.11.28	Small, minor synform, vertical or near-vertical axial surface (1st option)—Showing strike	+	color     2.75 mm ± 60%     arrow lineweight       100%     -2 mm       magenta     -6.0     -1.475 mm       2.75 mm     - 1.475 mm	particular fold type. May also be shown in black or other colors.			
5.11.29	Small, minor synform, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) →35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm ⊮ 100% magenta				
5.11.30	Small, minor synform, vertical or near-vertical axial surface (2nd option)—Showing strike	<u> </u>	color     2.75 mm ± 60%     arrow lineweight       100%				
5.11.31	Small, minor synform, inclined axial surface (2nd option)—Showing strike and dip		HI-6 (100% black) → 35				
5.11.32	Small, minor asymmetric syncline, vertical or near- vertical axial surface (1st option)—Showing strike	*	color 2.25 mm 407 arrow lineweight 100% 2 mm magenta 6.0 1.475 mm 3.5 mm 7 mm 2 k lineweight .25 mm				
5.11.33	Small, minor asymmetric syncline, inclined axial surface (1st option)—Showing strike and dip	35	HI-6 (100% black) 9.0 mm k 100% magenta				
5.11.34	Small, minor asymmetric syncline, vertical or near- vertical axial surface (2nd option)—Showing strike		color 2.25 mm $2^{407}$ arrow lineweight 22 mm arrow lineweight 2 mm 3.5 mm $\pi$ mm $\pi$ lineweight .25 mm				
5.11.35	Small, minor asymmetric syncline, inclined axial surface (2nd option)—Showing strike and dip		HI-6 (100% black) 9.0 mm k 100% magenta				
5.11.36	Small, minor overturned syncline, vertical or near- vertical axial surface (1st option)—Showing strike	<u>+</u> +	color 2.275 mm 407 arrow lineweight 100% 1.0 mm 1.475 mm 6.0 mm 400 lineweight .25 mm				
5.11.37	Small, minor overturned syncline, inclined axial sur- face (1st option)—Showing strike and dip	35	HI-6 (100% black) → 35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm k 100% magenta				
5.11.38	Small, minor overturned syncline, vertical or near- vertical axial surface (2nd option)—Showing strike	- <b>4</b> <del>4</del> -	color 2.275 mm 407 arrow lineweight 100% 1.0 mm 2 mm radius 4 lineweight .25 mm				
5.11.39	Small, minor overturned syncline, inclined axial sur- face (2nd option)—Showing strike and dip	35	HI-6 (100% black) → 35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm k 100% magenta				
5.11.40	Small, minor inverted syncline, vertical or near- vertical axial surface (1st option)—Showing strike	$\mathbf{r}$	color 875 mm \40°_arrow lineweight 100% radius 2 mm agenta 6.0 2.25 mm mm k lineweight .25 mm				
5.11.41	Small, minor inverted syncline, inclined axial sur- face (1st option)—Showing strike and dip	→ <sup>35</sup>	HI-6 (100% black) → 35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm k 100% magenta				
5.11.42	Small, minor inverted syncline, vertical or near- vertical axial surface (2nd option)—Showing strike	<del>\$\$</del>	color .875 mm /40°—arrow lineweight 100% tradius .2 mm magenta 6.0 2.25 mm mm k lineweight .25 mm				
5.11.43	Small, minor inverted syncline, inclined axial sur- face (2nd option)—Showing strike and dip	₹ <sup>35</sup>	HI-6 (100% black) → 35 tick length 1.75 mm; lineweight 2 mm; color → 9.0 mm k 100% magenta				