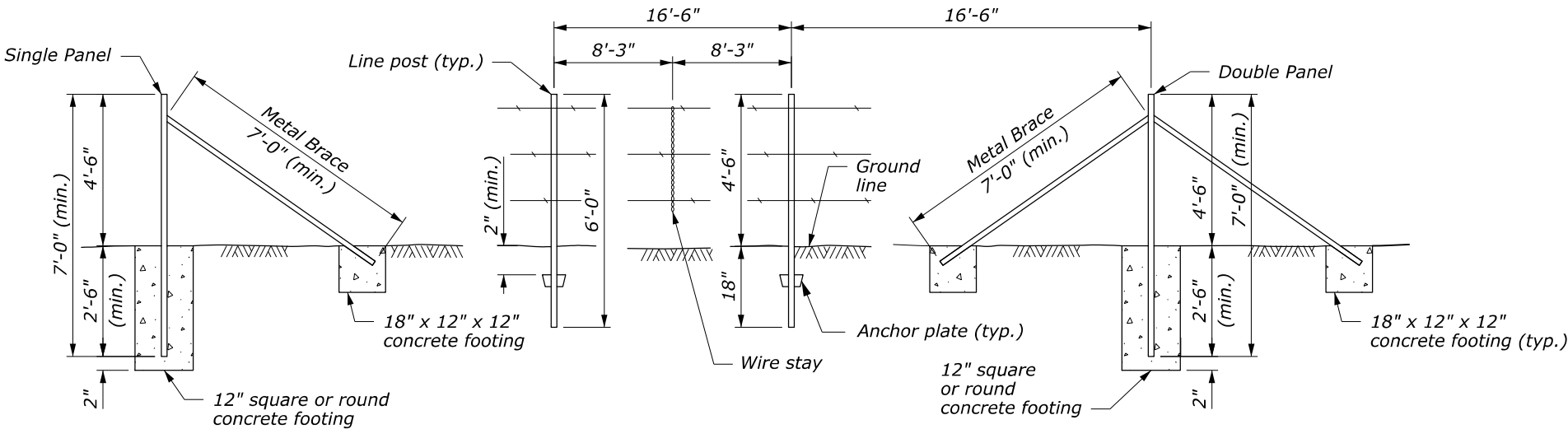


FENCE WIRE DETAILS

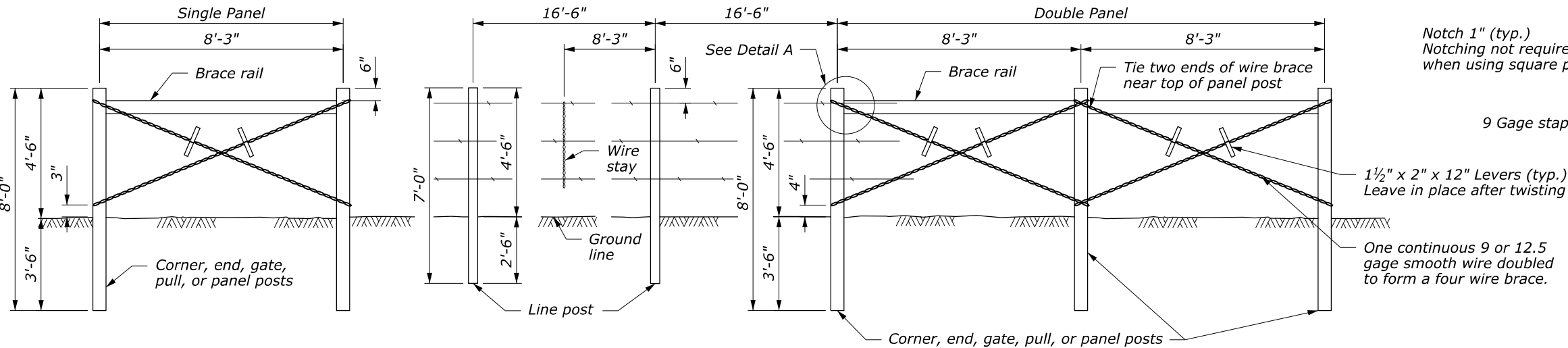
NOTE:

1. Place all fence wire on pasture side of post, except on curves place the wire on the outside of the curve. In areas subject to high winds and moving debris wires may be placed on windward side of posts (except on curves).
2. Measure post spacing parallel to ground.
3. In each 500' run of wood post fence, place one metal post in place of a wood line post for lightning protection.
4. Use wood panels on all metal fences instead of the steel panels unless otherwise specified.
5. Attach all barbed wires to posts. Attach bottom, top, center, and alternate wires of woven wire to line posts. Attach all wires of woven wire to corner posts or post used to tie-off wire. Attach wires using staples for wood posts and using ties for steel posts.
6. Use wire stays on all fences unless wood stays are specified. When wood stays are specified, use either 2" round, a rough dimension 2" x 2", or a 1½" x 3½" (nominal 2" x 4"). Provide stay of sufficient length to be placed on the ground with the top of stay extending 2" above the top wire. Attach each wire to the wood stays using 1¾" x 9 gage staples. Wood stays do not need to be treated.

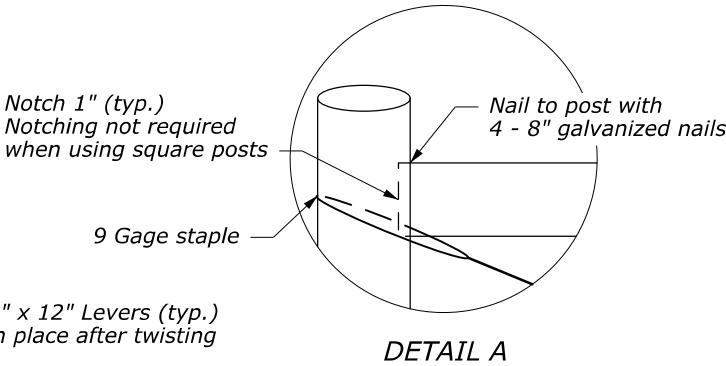


FENCE WITH STEEL POSTS

POST DIMENSIONS			
MEMBER	WOOD		STEEL
	ROUND	SQUARE	
Line post	4"	4" x 4"	1.33 lb/ft
Brace	4"	4" x 4"	2" x 2" x ¼"
Other posts	5"	5" x 5"	2½" x 2½" x ¼"



FENCE WITH WOOD POSTS



DETAIL A

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

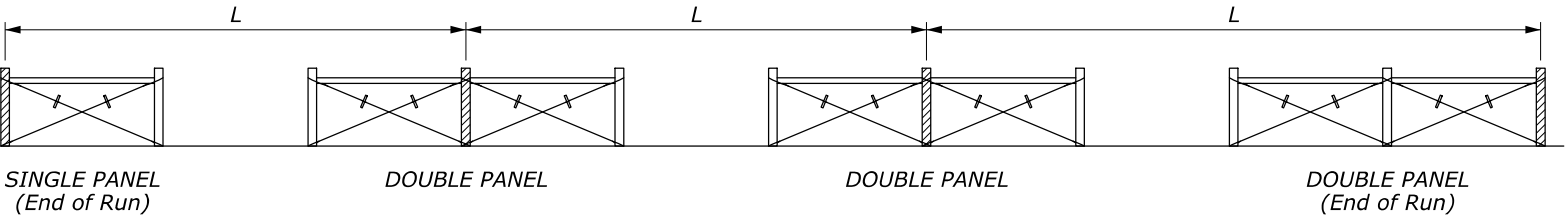
MONTANA FENCE

Sheet 1 of 2

DETAIL APPROVED FOR USE 2/2010
REVISED:

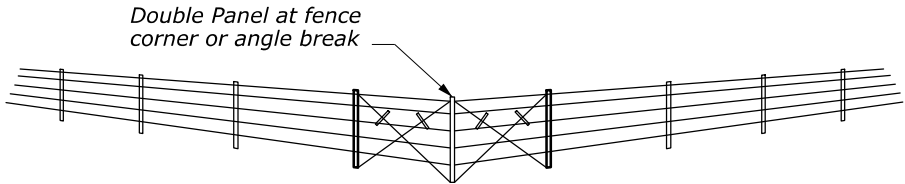
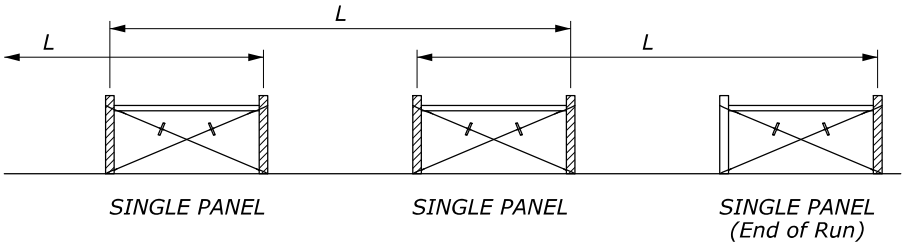
DETAIL
W619-60

NO SCALE



FENCE TYPE	RUN = L	PANELS REQUIRED
Combination Woven Wire & Barbed Wire	< 33'	None
	33' to 330'	Single
	> 330' to 660' Max.	Double
Barbed Wire	< 66'	None
	66' to 660'	Single
	> 660' to 990' Max.	Double

NOTE: Tie off on all cross hatched posts.



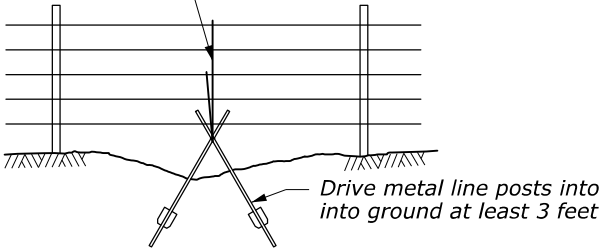
DOUBLE END PANEL

FENCE PANEL TYPES

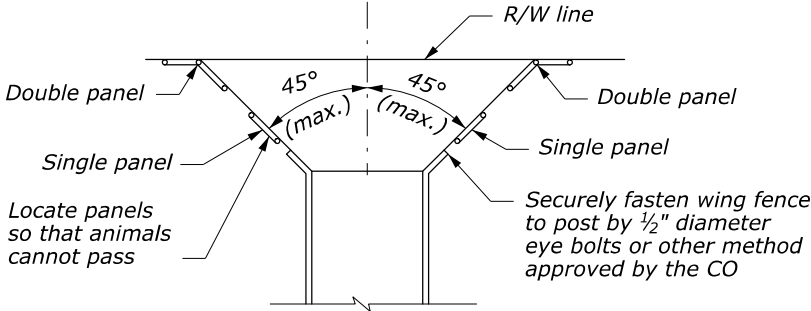
NOTE:

1. Attach barbed wires to tie-off posts by wrapping around the post at least two times, then wrapping the wires around itself five times.
2. To attach woven wire to end post, remove two or three vertical stay wires from the end of the fence. Place the first complete vertical stay wire against post. Start at the middle of the horizontal line wires, wrapping around the end post at least two times and then wrapping around itself five times.
3. A deadman may be a precast concrete block, a cast-in-place block or a rock or other approved object weighing at least 150 pounds. Bury the deadman in the ground with at least 24" cover. Attach the deadman to the fence with 3 strands of 9 gage wire or 6 strands of 12.5 gage wire. The Alternate Deadman shown on this sheet may be used when approved by the CO.
4. Offset "Interstate" fence 1 foot inside right-of-way. Increase length of metal "Interstate" posts and braces to 7'-8". Increase embedment depth to 3'-2". Increase length of metal "Interstate" line posts to 6'-6". Increase embedment depth to 2 feet.

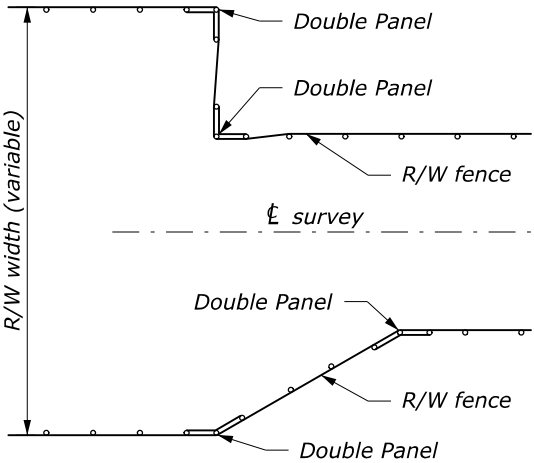
Tie 3 strands of 9 gage wire around all wires and around the junction of the metal posts



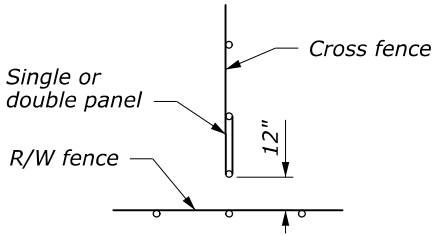
ALTERNATE DEADMAN
See Note 3 for normal deadman



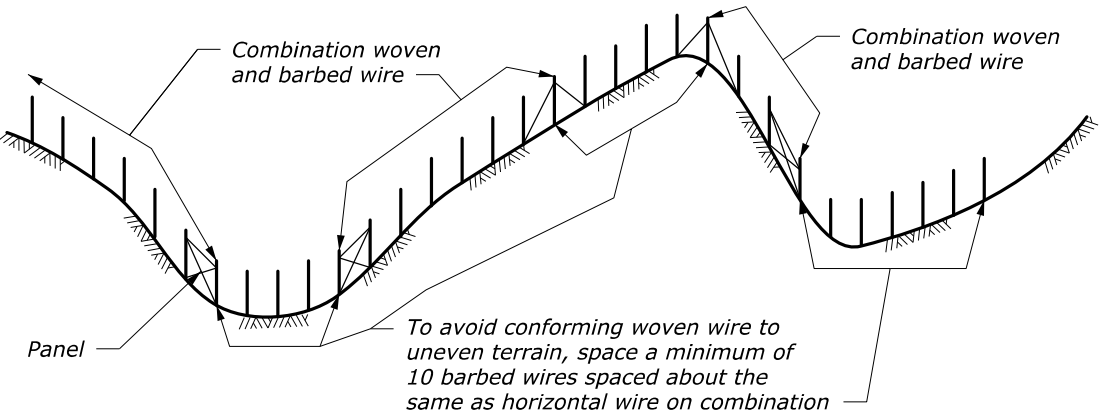
FENCE LAYOUT AT STOCKPASS



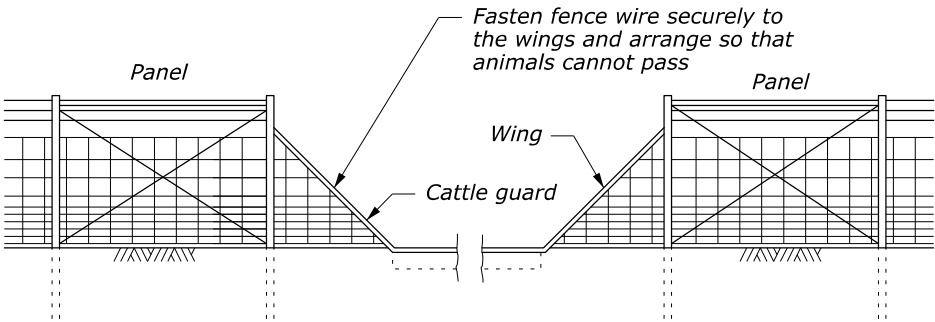
FENCE LAYOUT AT CHANGE IN R/W WIDTH



FENCE LAYOUT AT CROSS FENCE CONNECTION



FENCE LAYOUT ON SHARP VERTICAL CURVES



FENCE CONNECTION TO CATTLE GUARD

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

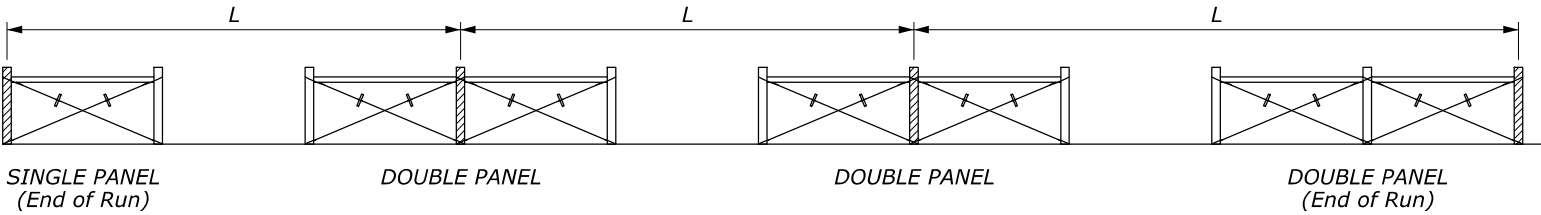
U.S. CUSTOMARY DETAIL

MONTANA FENCE

Sheet 2 of 2

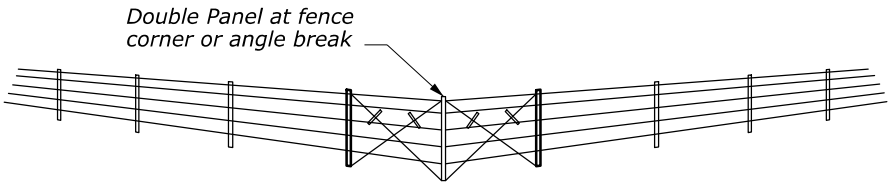
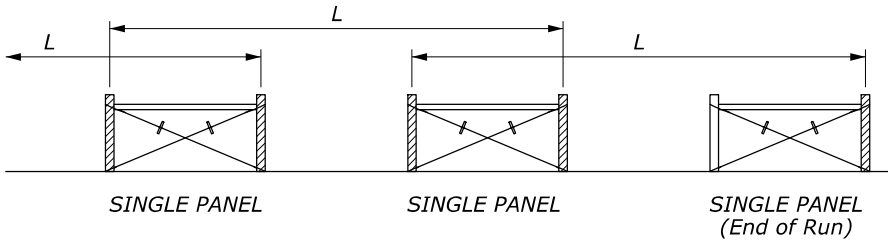
DETAIL APPROVED FOR USE 2/2010
REVISED:

DETAIL
W619-60



FENCE TYPE	RUN = L	PANELS REQUIRED
Combination Woven Wire & Barbed Wire	< 10 m	None
	10 m to 100 m	Single
	> 100 m to 200 m Max.	Double
Barbed Wire	< 20 m	None
	20 m to 200 m	Single
	> 200 m to 300 m Max.	Double

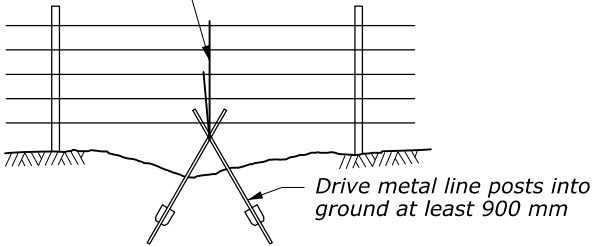
NOTE: Tie off on all cross hatched posts.



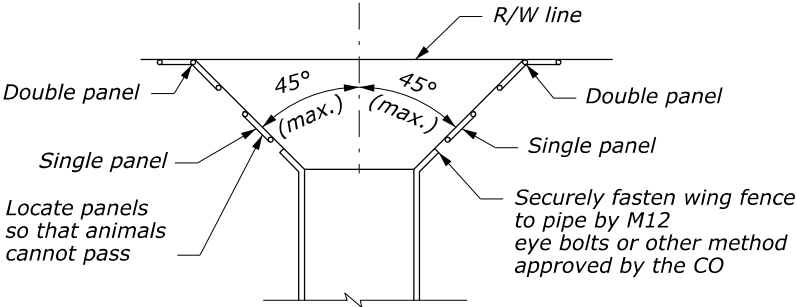
DOUBLE END PANEL

FENCE PANEL TYPES

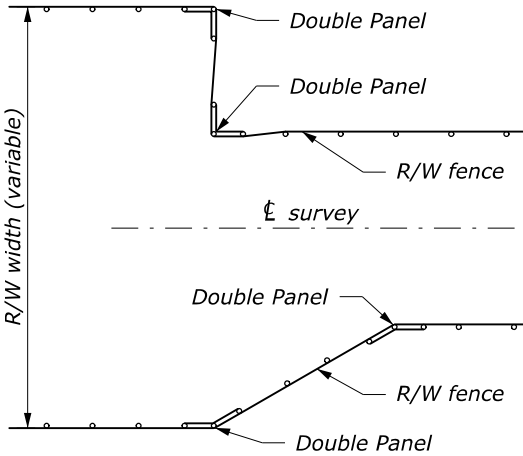
Tie 3 strands of 9 gage wire around all wires and around the junction of the metal posts



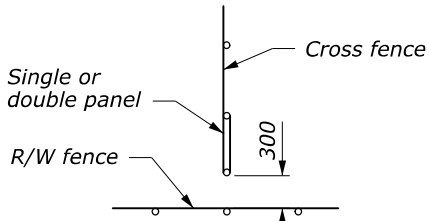
ALTERNATE DEADMAN
See Note 3 for normal deadman



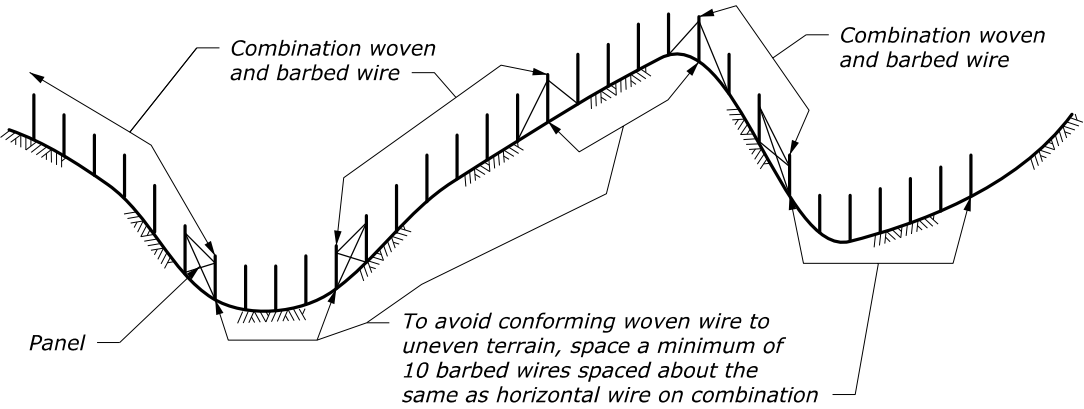
FENCE LAYOUT AT STOCKPASS



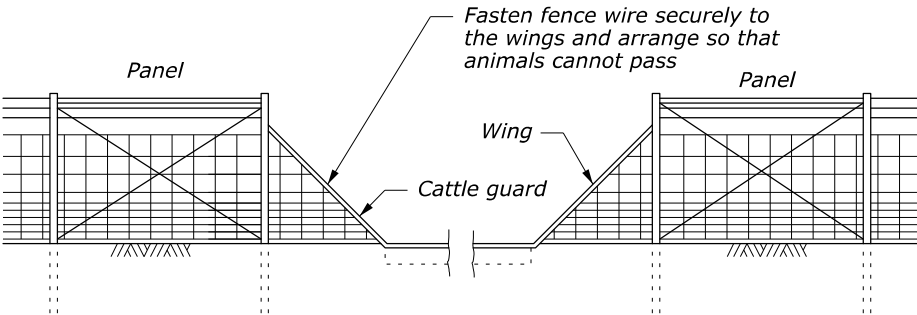
FENCE LAYOUT AT CHANGE IN R/W WIDTH



FENCE LAYOUT AT CROSS FENCE CONNECTION



FENCE LAYOUT ON SHARP VERTICAL CURVES



FENCE CONNECTION TO CATTLE GUARD

NO SCALE

NOTE:

1. Attach barbed wires to tie-off posts by wrapping around the post at least two times, then wrapping the wires around itself five times.
2. To attach woven wire to end post, remove two or three vertical stay wires from the end of the fence. Place the first complete vertical stay wire against post. Start at the middle of the horizontal line wires, wrapping around the end post at least two times and then wrapping around itself five times.
3. A deadman may be a precast concrete block, a cast-in-place block or a rock or other approved object weighing at least 70 kg. Bury the deadman in the ground with at least 600 mm cover. Attach the deadman to the fence with 3 strands of 9 gage wire or 6 strands of 12.5 gage wire. The Alternate Deadman shown on this sheet may be used when approved by the CO.
4. Offset "Interstate" fence 300 mm inside right-of-way. Increase length of metal "Interstate" posts and braces to 2.3 m. Increase embedment depth to 950 mm. Increase length of metal "Interstate" line posts to 2 m. Increase embedment depth to 650 mm.
5. Dimensions without units are millimeters.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

METRIC DETAIL

MONTANA FENCE

Sheet 2 of 2

DETAIL APPROVED FOR USE 2/2010

REVISED:

DETAIL

WM619-60