

APPROXIMATE WEIGHT OF 32" [813] WOVEN WIRE FABRIC (832-6-12 1/2) PER 20 ROD [100 m] ROLL IS 150 LB. [68 kg] ± 10 LB. [5 kg] (NOTE: 12 1/2 GAUGE)
• DENOTES STAPLE AND/OR TIE LOCATIONS

APPROXIMATE WEIGHT OF 39" [990]WOVEN WIRE FABRIC (939-6-12 1/2) PER 20 ROD [100 m]ROLL IS 170 LB. [77 kg]±10 LB. [5 kg](NOTE: 12 1/2 GAUGE)

* OTHER WOVEN WIRE HEIGHTS AND NUMBER OF BARBED WIRE COMBINATIONS ARE AVAILABLE.

<u>STAYS</u>

- 1. USE WIRE STAYS ON ALL FENCES UNLESS WOOD STAYS ARE SPECIFIED.
- 2. LOCATE STAYS HALFWAY BETWEEN LINE POSTS.
- 3. WIRE STAYS FOR BARBED WIRE FENCING ARE 2" [50] LONGER THAN THE DISTANCE BETWEEN THE TOP AND BOTTOM WIRES.
- 4. FOR WOVEN WIRE FENCING WITH BARBED WIRE ON TOP, EXTEND WIRE STAYS 6" [150] MINIMUM BELOW THE TOP OF THE WOVEN WIRE.
- 5. WHEN WOOD STAYS ARE SPECIFIED, USE EITHER 2" [50] ROUND, A ROUGH DIMENSION 2" x 2" [50 x 50], OR A 1 1/2" x 3 1/2" [37.5 x 87.5] (NOMINAL 2" x 4" [50 x 100]). THE STAY MUST BE OF SUFFICIENT LENGTH TO BE PLACED ON THE GROUND WITH THE TOP OF THE STAY EXTENDING 2" [50] ABOVE THE TOP WIRE. ATTACH EACH WIRE TO THE WOOD STAYS USING 1 3/4" [44]x 9 GAUGE STAPLES. WOOD STAYS DO NOT NEED TO BE TREATED.

NOTES:

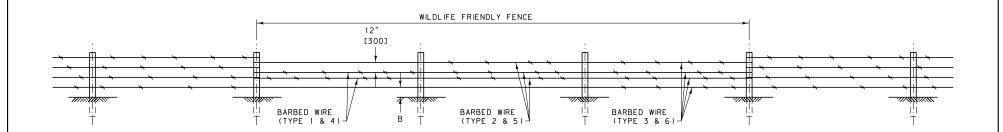
- ① STAPLE THE BOTTOM, TOP, CENTER AND ALTERNATE WIRES OF WOVEN WIRE TO WOOD LINE POSTS.
- ② TIE THE BOTTOM, TOP, CENTER AND ALTERNATE WIRES OF WOVEN WIRE TO STEEL LINE POSTS.
- STAPLE ALL WIRES OF WOVEN WIRE TO WOOD CORNER POSTS OR POSTS USED TO TIE-OFF WIRE.
- (4) "M" DENOTES METAL POSTS, IE. TYPE F3M.
 "W" DENOTES WOOD POSTS, IE. TYPE F4W.
- (5) SEE DTL. DWG. NO. 607-05, 607-10, AND 607-15 FOR ADDITIONAL FENCING DETAILS.

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC.
SECTION 607 607-00

FARM FENCE

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.





WIRE SPACING TABLE					
WILDLIFE-FRIENDLY FARM FENCE TYPE 1 & 4	WILDLIFE-FRIENDLY FARM FENCE TYPE 2 & 5	WILDLIFE-FRIENDLY FARM FENCE TYPE 3 & 6			
42" [1050] FENCE HEIGHT	42" [1050] FENCE HEIGHT	42" [1050] FENCE HEIGHT			
WF-2 BW/2 SW-16 & WF-2 BW/2 SW-12	WF-3 BW/1 SW-16 & WF-3 BW/1 SW-12	WF-4 BW-16 & WF-4 BW-12			
TYPE WF4-SBBS-16 & TYPE WF4-SBBS-12	TYPE WF4-3BS-16 & TYPE WF4-3BS-12	TYPE WF4-4B-16 & TYPE WF4-4B-12			
SMOOTH WIRE (12 1/2 GAUGE) BARBED WIRE (12 1/2 GAUGE) SMOOTH WIRE (12 1/2 GAUGE) B	BARBED WIRE (12 1/2 GAUGE) SMOOTH WIRE (12 1/2 GAUGE) B WW////////////////////////////////	BARBED WIRE (12 1/2 GAUGE) A B B			

• DENOTES STAPLE AND/OR TIE LOCATIONS

BOTTOM WIRE HEIGHT						
WIRE SPACING						
TYPE 1 2 3 4 5 6						6
A 7" [175] 7" [175] 7" [175] 9" [225] 9" [225] 9" [225]						9" [225]
В	16" [400]	16" [400]	16" [400]	12" [300]	12" [300]	12" [300]

NOTES:

- () "M" DENOTES METAL POSTS, IE. TYPE WF4M. "W" DENOTES WOOD POSTS, IE. TYPE WF4W.
- ② SEE DTL. DWG. NO. 607-05, 607-10, AND 607-15 FOR ADDITIONAL FENCING DETAILS.

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN. DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC.
SECTION 607

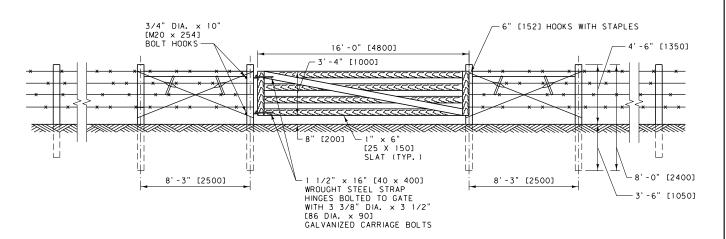
DRAWING

007-01

WILDLIFE FRIENDLY FENCE





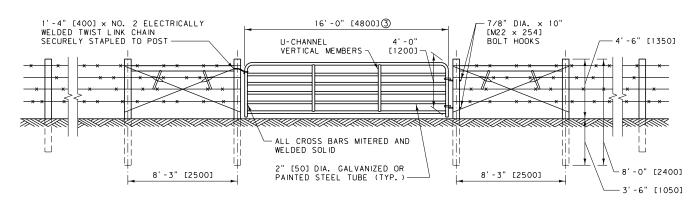


WOOD FARM ENTRANCE GATE (TYPE G-1) NOTE: USE IOD NAILS AND CLINCH FOR GATE CONSTRUCTION.

2 1/2" DIA. x 4'-3" [62.5 DIA. X 1280]STAY TIED TO MAIN FENCE BY 3 WIRE LOOPS 16'-0" [4800] 7 1/2" [195]-5'-1 1/2" 5'-1 1/2" 5'-1 1/2" INSTALL GATE CLOSURE LATCH AS SHOWN, OR ALTERNATE DEVICE £15351 9 GAUGE SMOOTH WIRE [1535] £15351 4'-6" [1350] AS APPROVED BY THE PROJECT MANAGER 2" DIA. x 3'-8" [50 DIA. x 1100] 1 L00P OF 9 Ш - 2 1/2" DIA. × 4'-3" [62.5 DIA. × 1280] 8'-0" [2400] 8'-3" [2500] 8'-3" [2500] SMOOTH WIRE -3'-6" [1050]

WIRE FARM ENTRANCE GATE (TYPE G-2)

NOTE: USE SAME WIRE SCHEME ON GATE AS THAT USED ON FENCE, UNLESS STATED OTHERWISE IN R/W AGREEMENT.



METAL FARM ENTRANCE GATE (TYPE G-3)

NOTES:

- ① ALL GATES ARE 16'-0" [4800] WIDE UNLESS R/W AGREEMENT STATES OTHERWISE.
- ② ALL GATES WILL HAVE A SINGLE OR DOUBLE PANEL AT EACH END.
- 3 TYPE G-3 GATES ARE AVAILABLE IN WIDTHS FROM 4' [1,2 m] TO 20' [6,0 m] IN 2' [0,6 m] INCREMENTS.

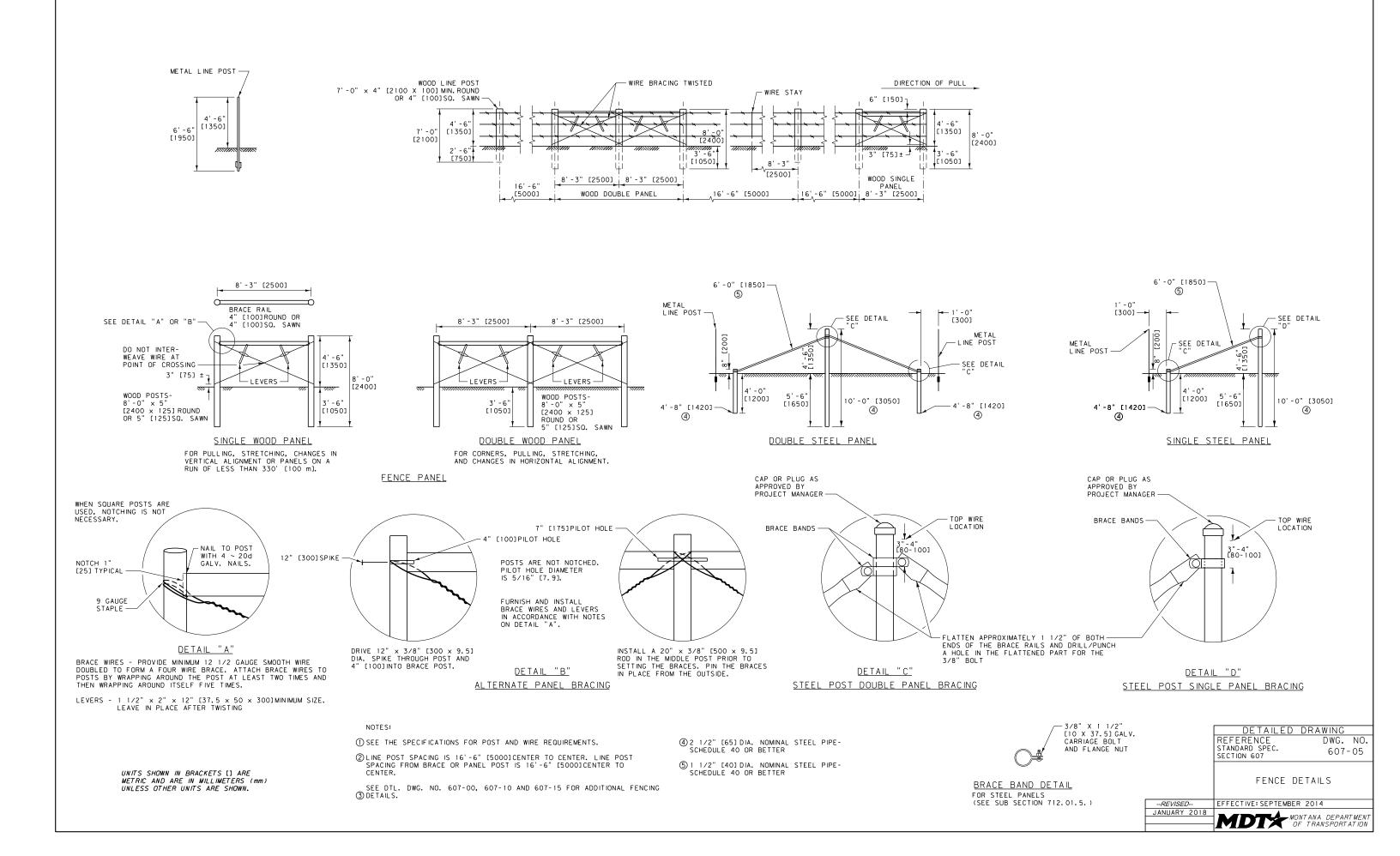
UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

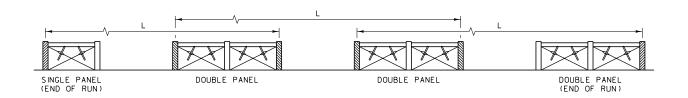
DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 607 DWG. NO. 607-02

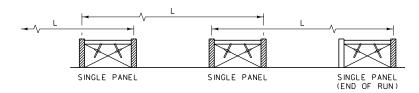
FARM ENTRANCE GATES



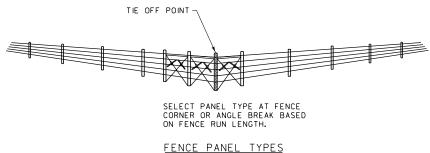




FENCE TYPE	RUN = L	PANELS REQUIRED
COMBINATION WOVEN/BARBED	LESS THAN 33'	NONE
	33' - 330'	SINGLE
	OVER 330' TO 660' MAX.	DOUBLE
	LESS THAN 66'	NONE
BARBED	66' -660'	SINGLE
DARDEU	OVER 660' TO 990' MAX	DOUBLE



FENCE TYPE	RUN = L (m)	PANELS REQUIRED
COMBINATION WOVEN/BARBED	LESS THAN 10	NONE
	10 - 100	SINGLE
	OVER 100 TO 200 MAX.	DOUBLE
	LESS THAN 20	NONE
BARBED	20 - 200	SINGLE
DANDED	OVER 200 TO 300 MAX.	DOUBLE



- () LIMIT RUN LENGTHS IN POOR SOIL CONDITIONS TO REDUCE RESULTING TENSION AT CORNER OR ANGLE BREAK PANELS.
- ② TIE OFF ON ALL CROSS HATCHED OR SHADED POSTS.

NOTES:

- ① ATTACH BARBED WIRES TO POSTS BY WRAPPING AROUND THE POST AT LEAST TWO TIMES, THEN WRAPPING AROUND ITSELF FIVE TIMES.
- ② TO ATTACH WOVEN WIRE TO AN END POST, REMOVE TWO OR THREE VERTICAL STAY WIRES FROM THE END OF THE FENCE. PLACE THE FIRST COMPLETE VERTICAL STAY WIRE AGAINST THE 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 PLACE ALL FENCE WIRE ON PASTURE SIDE OF POST, EXCEPT ON CURVES. THEN, PLACE THE WIRE ON THE OUTSIDE OF THE
- (4) IN AREAS SUBJECT TO HIGH VELOCITY WINDS AND MOVING DEBRIS, WIRES MAY BE PLACED ON WINDWARD SIDE OF POSTS, EXCEPT ON CURVES.
- 5 POST SPACING IS GENERALLY MEASURED PARALLEL TO GROUND.
- 6 PLACE WIRE STAYS PER DTL. DWG. NO. 607-00 HALFWAY BETWEEN POSTS. DO NOT PLACE STAYS ON PANELS.
- WOOD FENCE HAS ONE METAL POST IN PLACE OF A WOODEN LINE POST IN EACH 500' [150 m] RUN FOR LIGHTNING PROTECTION.

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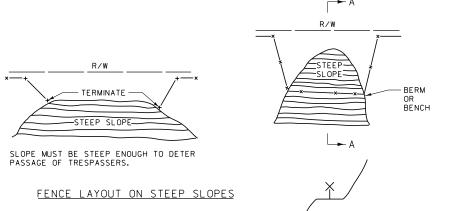
DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 607

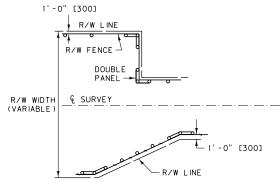
DWG. NO. 607-10

FENCE DETAILS

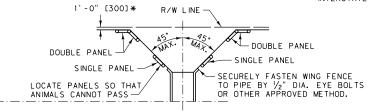




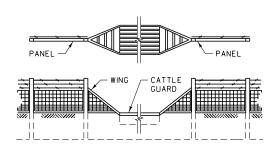
SECTION A-A



FENCE LAYOUT AT
CHANGE IN R/W WIDTH ON INTERSTATE



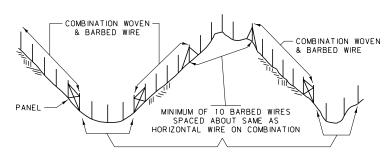
FENCE LAYOUT AT STOCKPASS, BRIDGES AND LARGE PIPES



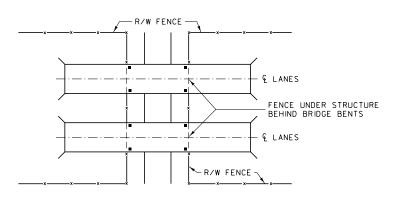
FENCE CONNECTION TO CATTLE GUARD

(1) PLACE SINGLE OR DOUBLE PANELS AT EACH END OF ALL CATTLE GUARDS.

② SECURELY FASTEN FENCE WIRE TO THE WINGS AND ARRANGE SO THAT ANIMALS CANNOT PASS.



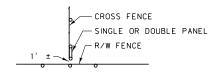
FENCE LAYOUT ON SHARP VERTICAL CURVES
TO AVOID TRYING TO CONFORM WOVEN WIRE TO UNEVEN TERRAIN



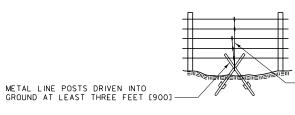
FENCE LAYOUT AT LOCAL ROAD UNDER INTERSTATE

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FENCE LAYOUT AT CROSS-FENCE CONNECTION



- THREE STRANDS OF 9 GAUGE WIRE TIED AROUND ALL WIRES AND AROUND THE JUNCTION OF THE METAL POSTS

<u>ALTERNATE DEADMAN</u>

WHEN APPROVED BY THE PROJECT MANAGER THE ABOVE DEADMAN MAY BE USED.

A DEADMAN MAY BE A PRECAST CONCRETE BLOCK, A CAST IN PLACE CONCRETE BLOCK, A ROCK OR OTHER APPROVED OBJECT WEIGHING AT LEAST 150 LB. BURY THE DEADMAN IN THE GROUND WITH AT LEAST 2'-O" OF COVER. ATTACH THE DEADMAN TO THE FENCE WITH 3 STRANDS OF 9 GAUGE WIRE OR 6 STRANDS OF 12 1/2 GAUGE WIRE.

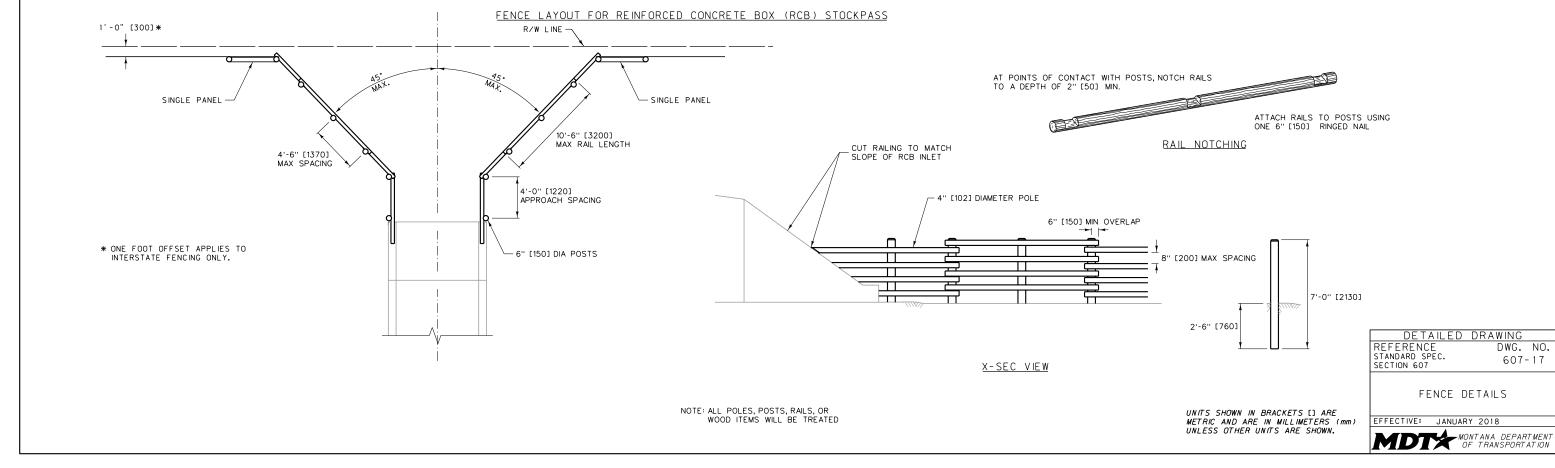
DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC.
SECTION 607

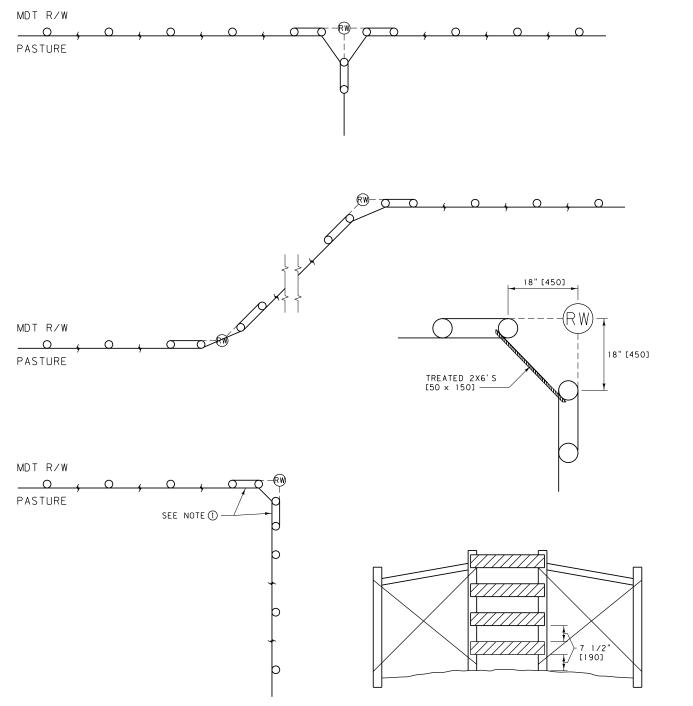
007

FENCE DETAILS



UPSLOPE FENCE LAYOUT AT CORRUGATED STEEL PIPE (CSP) STOCKPASS 1'-0" [300]* R/W LINE — SINGLE PANEL SINGLE PANEL - 4" [102] DIAMETER POLE 10'-6" [3200] MAX RAIL LENGTH 6" [150] MIN OVERLAP Ш 4'-6" [1370] MAX SPACING B" [200] MAX SPACING 7'-0" [2130] - 6" [150] DIA POSTS 2'-6" [760] * ONE FOOT OFFSET APPLIES TO INTERSTATE FENCING ONLY. ADJUST LENGTH TO REACH ABOVE INLET ON INSLOPE X-SEC VIEW AT POINTS OF CONTACT WITH POSTS, NOTCH RAILS TO A DEPTH OF 2" [50] MIN. ATTACH RAILS TO POSTS USING ONE 6" [150] RINGED NAIL NOTE: ALL POLES, POSTS, RAILS, OR WOOD ITEMS WILL BE TREATED RAIL NOTCHING FENCE LAYOUT FOR REINFORCED CONCRETE BOX (RCB) STOCKPASS 1'-0" [300]* R/W LINE -AT POINTS OF CONTACT WITH POSTS, NOTCH RAILS TO A DEPTH OF $2^{\prime\prime}$ [50] MIN. SINGLE PANEL SINGLE PANEL ATTACH RAILS TO POSTS USING ONE 6" [150] RINGED NAIL 10'-6" [3200] MAX RAIL LENGTH RAIL NOTCHING CUT RAILING TO MATCH SLOPE OF RCB INLET 4'-6" [1370] MAX SPACING





SPAN TREATED 2X6'S [50 \times 150] ACROSS GAP ON PASTURE SIDE OF POSTS. ATTACH TO PANEL POSTS WITH TWO 3" EXTERIOR GRADE SCREWS ON EACH END AND TRIM EDGES AT 45 DEGREE ANGLES.

NOTES

- ① INSTALL PANELS ACCORDING TO DETAIL DRAWING 607-05.
- $\ensuremath{ iggreen }$ INSTALL NON-INTERSTATE FENCE ON THE RIGHT-OF-WAY LINE AS SHOWN.
- ③ OFFSET PANEL POSTS 18" [450mm] FROM STAKED R/W BREAKS AND R/W MONUMENTS AS SHOWN IN DETAIL.
- 4 DO NOT DISTURB SURVEY MONUMENTS.
- $\mbox{\Large \Large \ensuremath{\mbox{\Large \Large \ensuremath{\mbox{\Large \Large \mbox{\Large }\mbox{\Large \mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large \mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large }\mbox{\Large \mbox{\Large }\mbox{\Large }\mbo$

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC.
SECTION 607

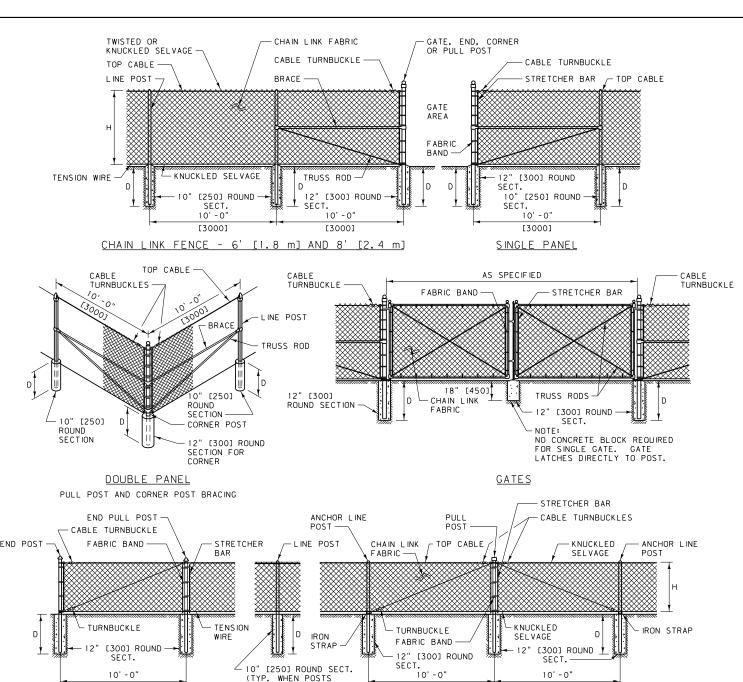
DRAWING
607-20

FENCING AT RIGHT OF WAY BREAKS

--*REVISED*--JULY 2016 EFFECTIVE: SEPTEMBER 2014

MONTANA DEPARTMENT
OF TRANSPORTATION

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.



CHAIN LINK FENCE - 3' [0, 9 m], 4' [1.2 m] AND 5' [1.5 m]

SET IN CONC.)

[3000]

- (1) DO NOT INSTALL DOUBLE PANELS MORE THAN 300' [90 m] APART ON TANGENTS OR MORE THAN 250' [75 m] APART ON ANY CURVE. FOR CURVES WITH RADII SHARPER THAN 1150' [350 m], INSTALL A DOUBLE PANEL ON EACH CURVE END, PLUS ONE ADDITIONAL PANEL FOR EACH 10° OF DEFLECTION, EVENLY SPACED, BETWEEN THE CURVE ENDS.
- 2 PULL POST BRACING ON 6' [1.8 m] AND 8' [2.4 m] FENCE IS THE SAME AS CORNER BRACING.
- (3) A DROP BAR LOCKING DEVICE IS REQUIRED FOR ALL DOUBLE GATE INSTALLATIONS. THE DROP BAR MUST BE ABLE TO BE INSERTED INTO THE CONCRETE BLOCK AT LEAST SIX INCHES [150].

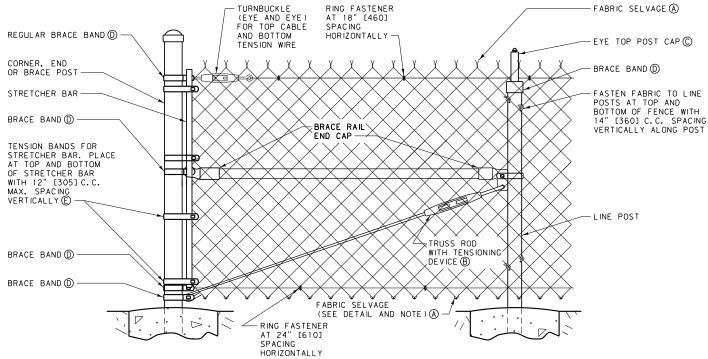
HEIGHT OF FABRIC, H	WIRE FABRIC ABOVE GROUND	DEPTH OF CONCRETE, D	DEPTH OF POST IN CONC. (MIN.)
8' [2440]	1"-2" [25-50]	42" [1050]	38" [950]
6' [1830]	1"-2" [25-50]	36" [900]	32" [800]
5' [1525]	1"-2" [25-50]	36" [900]	32" [800]
4' [1220]	1"-2" [25-50]	30" [750]	26" [650]
3' [915]	1"-2" [25-50]	30" [750]	26" [650]

(4) ALL CONCRETE IS LEAN OR BETTER.

[3000]

(5) INSTALL A 3/8" [10]DIAMETER GALVANIZED STEEL TOP CABLE ALONG ALL FENCE. TERMINATE TOP CABLE WITH GALVANIZED CABLE TURNBUCKLES FASTENED VIA THE FABRIC BAND AT THE POST.

[3000]



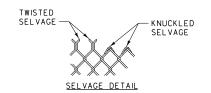
CONNECTION DETAILS

GENERAL NOTES

PROVIDE CHAIN LINK FENCE MATERIALS PER SECTION 712.

(A) FABRIC SELVAGE: FENCE HEIGHT UNDER 6' [1.8 m]: TOP AND BOTTOM KNUCKLED SELVAGE.

FENCE HEIGHT 6' [1.8 m] AND OVER: TOP - TWISTED OR KNUCKLED SELVAGE BOTTOM - KNUCKLED SELVAGE



B TRUSS RODS: SEE SECTION 712.01.4



- © POST CAPS: PROVIDE EYE-TOP CAPS FOR ALL POSTS CARRYING A TOP CABLE THROUGH THE POST. PROVIDE ROUNDED TOPS FOR ALL OTHER ROUND FIT POST CAPS TIGHTLY TO PREVENT REMOVAL.
- DBRACE BANDS: SEE SECTION 712.01.5.



E TENSION BANDS: SEE SECTION 712.01.5



TENSION BAND DETAIL

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DETAILED DRAWING DWG. NO.

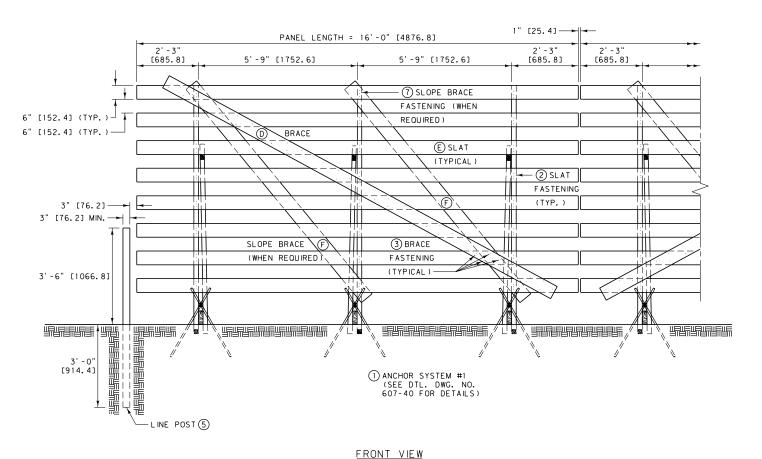
REFERENCE STANDARD SPEC. SECTION 607

607-25

CHAIN LINK FENCE

JULY 2016

EFFECTIVE: SEPTEMBER 2014 --REVISED--MONTANA DEPARTMENT OF TRANSPORTATION



→ | ← 1" [25.4] → | ← 1 1/2" [38, 1] 3/4" [19.05] -1 1/2" [38. 1] → 1 1/2" [38.1] → | 1" [25, 4] 3/4" [19.05] ¬ 5'-5" [1651] [393.7] 8'-0" [2438.4] [393.7] 3/4" [19.05] DIA. HOLES (TYP.) \bigcirc SILL 200° 1 1/2" [38.1]-1 1/2" [38.1] 3/4" [19.05]-3/4" [19.05]-1 1/2" [38.1] — 5 3/8" [136.525]-1 1/2" [38.1]— PREVAIL ING 4 FRAME TO FRAME WIND FASTENING -(B) FRAME \8' -6" 12590.81 3/4" [19.05] DIA. HOLES (TYP.) 52° 30' 52° 30' 1" [25.4]-1" [25.4]-£ 6" [152.4] **肾** (4) FRAME TO 3/4" [19. 05] SILL FASTENING () ANCHOR SYSTEM #1 (SEE DTL. DWG. NO. 607-40 FOR DETAILS) (C) FRAME

END VIEW

GENERAL NOTES

- (1) ANCHOR SYSTEM DETAIL
 USE ANCHOR SYSTEM #1 UNLESS SOIL AND MOISTURE CONDITIONS NECESSITATE THE USE
 OF AN ALTERNATE SYSTEM, OR AS DIRECTED BY THE PROJECT MANAGER. CONSULT DETAILED
 DRAWING NUMBERS 607-40 AND 607-45 FOR ANCHOR SYSTEMS #3 (ROCKY CONDITIONS)
- ② SLAT FASTENING FASTEN SLATS TO THE FRAME WITH 3 ~ 12d COMMON BARBED SHANK NAILS AT EACH LOCATION.
- FASTEN BRACES TO THE FRAME WITH 4 ~ 8d COMMON NAILS AT EACH LOCATION AND
- (4) FRAME TO SILL AND FRAME TO FRAME FASTENING
 FASTEN THE SILL AND FRAME MEMBERS TO THE FRAME AT EACH LOCATION WITH 2 ~
 5/8 " DIA. x 5" [M16 x 127] STANDARD MACHINE BOLTS, EACH WITH HEX NUT AND TWO FLAT WASHERS. SEE NOTE (X) AT RIGHT.
- (5) LINE POSTS
 PLACE LINE POSTS AT EACH END OF EACH LINE OF SNOW FENCE AS SHOWN. POSTS
 ARE 6'-6" [1981.2] LONG WITH A MINIMUM DIAMETER OF 3" [76.2] AND A MAXIMUM
 DIAMETER OF 6" [152.4]. BUTT TREAT 3' [914.4] MINIMUM.
- (6) WIRE TIE USE 12 GAUGE OR HEAVIER GALVANIZED WIRE TO FORM THE WIRE TIES.
- ${\begin{tabular}{ll} \hline \end{tabular}}$ SLOPE BRACE FASTENING FASTEN SLOPE BRACES WITH 3 \sim 16d COMMON BARBED SHANK NAILS AT EACH LOCATION.

	BILL	OF MATERIALS FOR ONE PANEL	
NO.	NO. OF PIECES	LUMBER SIZE	DESCRIPTION
(A) *	3	2" × 6" × 8' -0" [50 × 150 × 2438.4]	FRAME (SILL)
B*	3	2" × 6" × 7' -6" [50 × 150 × 2286.0]	FRAME
©*	3	2" × 6" × 8' -6" [50 × 150 × 2590.8]	FRAME
* NOTE: PR		AT ALL 2" × 6" [50 × 150]	MEMBERS
0	1	1" × 6" × 16' -0" [25 × 150 × 4876.8]	BRACE
E	8	1" × 6" × 16'-0" [25 × 150 × 4876.8]	SLAT

	HARDWARE - 8	' [2.4 m] SNOW FENCE W/ ANCHOR SYSTEM #1					
		BILL OF MATERIALS FOR ONE PANEL					
	QUANTITY	DESCRIPTION					
4	18	5/8" DIA. × 5" [M16 × 127] HEX BOLT (THREADED FULL LENGTH) AND NUT	→ ⊗ NOTE:				
4	36	FLAT WASHER FOR 5/8" DIA. [MI6] BOLT	AFTER 5/8" DIA. [M16] BOLTS HAVE BEEN TIGHTENED, BURR				
2	1 LB. [0.45 kg]	12d COMMON BARBED SHANK NAIL	THE THREAD DIRECTLY BEHIND THE NUT TO PREVENT EVENTUAL				
1	12	#6 REBAR x 5'-0" [#19 x 1524]	LOOSENING OF THE NUTS.				
6	6 PIECES	12 GAUGE TIE WIRE x 5'-0" [1524.0]±					
3	1/3 LB. [0.15 kg]	8d COMMON NAILS					
7	1/4 LB. [0.11 kg]	16d COMMON BARBED SHANK NAILS					
	ALL NAILS MAY BE EITHER HAND DRIVEN OR DRIVEN WITH A PNEUMATIC NAILER.						

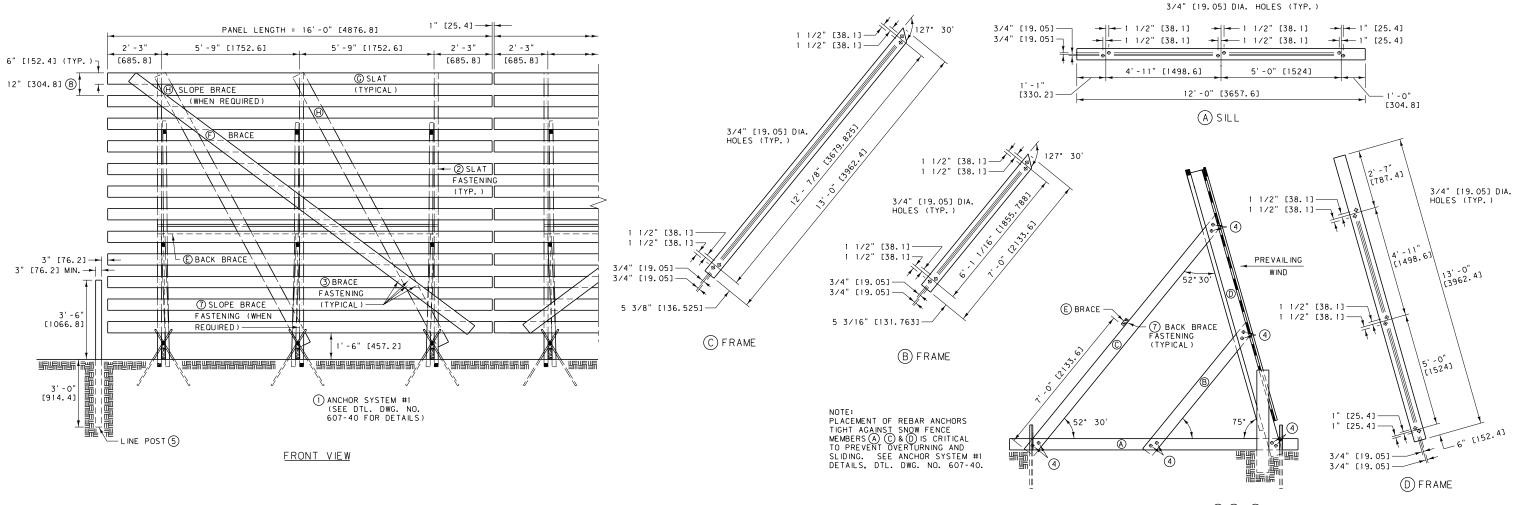
DETAILED DRAWING REFERENCE DWG. NO. STANDARD SPEC. 607-30 SECTION 607

8' [2.4 m] WOOD SNOW FENCE W/ ANCHOR SYSTEM #1

EFFECTIVE: SEPTEMBER 2014

MONTANA DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

- ANCHOR SYSTEM DETAIL
 USE ANCHOR SYSTEM #1 UNLESS SOIL AND MOISTURE CONDITIONS NECESSITATE THE USE
 OF AN ALTERNATE SYSTEM, OR AS DIRECTED BY THE PROJECT MANAGER. CONSULT DETAILED
 DRAWING NUMBERS 607-40 AND 607-45 FOR ANCHOR SYSTEMS #3 (ROCKY CONDITIONS)
 AND #2 (SWAMPY CONDITIONS)
- ② SLAT FASTENING FASTEN SLATS TO THE FRAME WITH 3 ~ 12d COMMON BARBED SHANK NAILS AT EACH LOCATION.
- (3) BRACE FASTENING
 FASTEN BRACES TO THE FRAME WITH 4 ~ 8d COMMON NAILS AT EACH LOCATION AND CLINCH.
- 4 FRAME TO SILL AND FRAME TO FRAME FASTENING
 FASTEN THE SILL AND FRAME MEMBERS TO THE FRAME AT EACH LOCATION WITH 2 ~
 5/8" DIA. x 5" [M16 x 127]STANDARD MACHINE BOLTS, EACH WITH HEX NUT AND TWO FLAT
 WASHERS. SEE NOTE (X) AT RIGHT.
- (5) LINE POSTS
 PLACE LINE POSTS AT EACH END OF EACH LINE OF SNOW FENCE AS SHOWN. POSTS
 ARE 6'-6" [1981.2]LONG WITH A MINIMUM DIAMETER OF 3" [76.2]AND A MAXIMUM
 DIAMETER OF 6" [152.4]. BUTT TREAT 3' [914.4]MINIMUM.
- (6) WIRE TIE USE 12 GAUGE OR HEAVIER GALVANIZED WIRE TO FORM THE WIRE TIES.
- $\ensuremath{\bigcirc}$ Back & slope brace fastening fasten back braces to the frame with 2 \sim 16d nails, and fasten the slope braces with 3 \sim 16d barbed shank nails at each location.
- (B) 12" [304.8] INCREMENT SPACING FROM TOPS OF EACH SLAT (IE. 12" [304.8], 24" [609.6], 36" [914.4]).

	BILL	OF MATERIALS FOR ONE PANEL	-
ITEM NO.	NO. OF PIECES	LUMBER SIZE	DESCRIPTION
A *	3	2" × 6" × 12' -0" [50 × 150 × 3657.6]	SILL
B*	3	2" × 6" × 7' -0" [50 × 150 × 2133.6]	FRAME
©*	3	2" × 6" × 13' -0" [50 × 150 × 3962.4]	FRAME
D *	3	2" × 6" × 13' -0" [50 × 150 × 3962.4]	FRAME
NOTE: PRESS	URE TREAT AL	L 2" × 6" [50 × 150] MEMBI	ERS (ENTIRE FRAME
E	1	2" × 4" × 12'-0" [50 × 100 × 3657.6]	BACK BRACE
F	1	1" × 6" × 18' -0" [25 × 150 × 5486.4]	BRACE
©	12	1" × 6" × 16' -0" [25 × 150 × 4876.8]	SLAT
H **	2	2" × 6" × 13' -0" [50 × 150 × 3962.4]	SLOPE BRACE

DIG OUT AS REQUIRED FOR ENDS OF MEMBERS \(\text{B}\) \(\text{C}\) & \(\text{D}\) AND THE ENTIRE LENGTH OF SILL \(\text{A}\) TO ASSURE FULL BEARING OF SILL AGAINST TERRAIN.

END VIEW

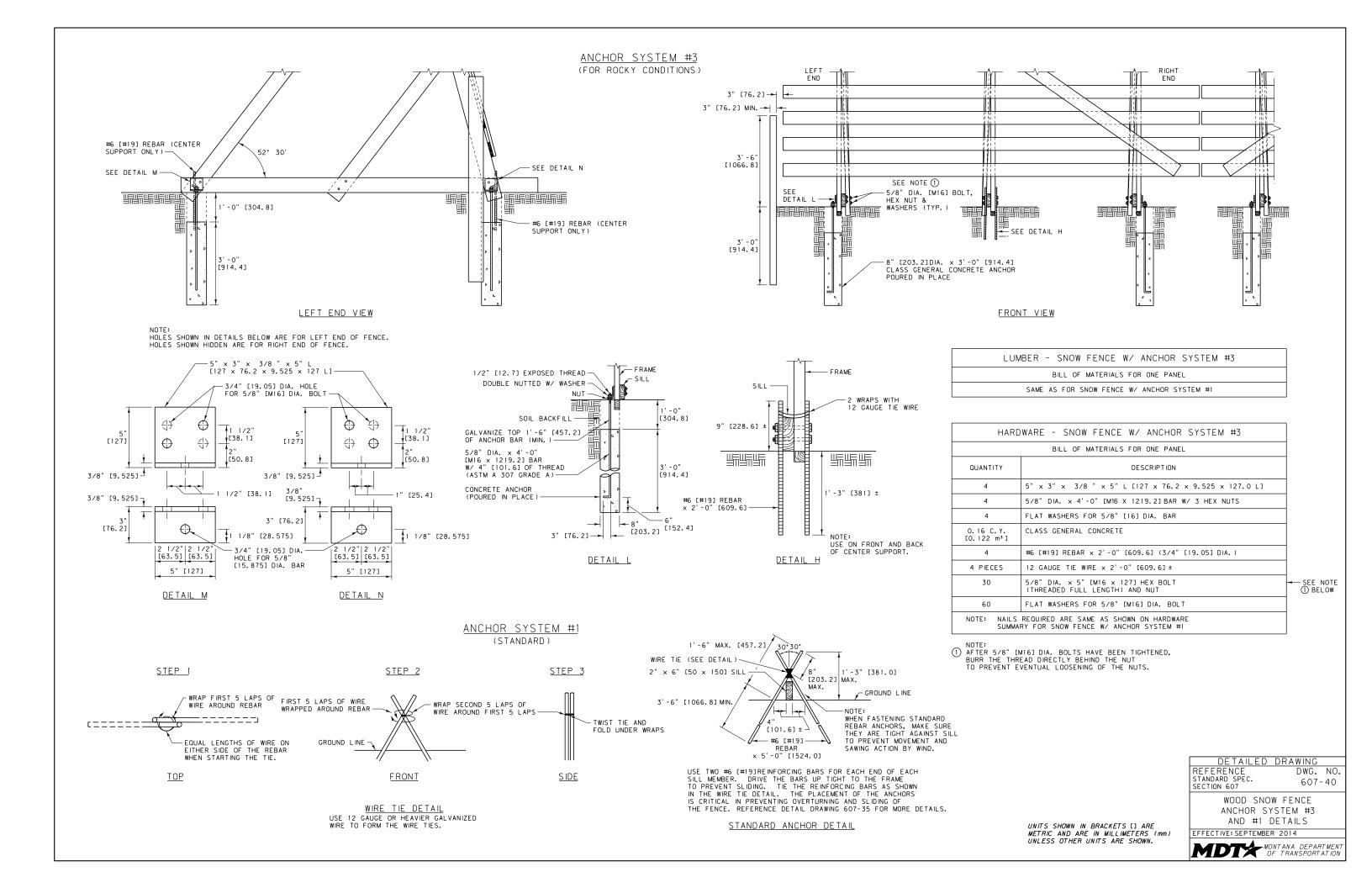
	HARDWARE -	12' [3.6 m] SNOW FENCE W/ ANCHOR SYSTEM #1	
		BILL OF MATERIALS FOR ONE PANEL	
	QUANTITY	DESCRIPTION	
4	30	5/8" DIA. x 5" [MI6 x 127] HEX BOLT (THREADED FULL LENGTH) AND NUT	NOTE: AFTER 5/8" [MI6] DIA. BOLTS HAVE BEEN TIGHTENED, BURR
4	60	FLAT WASHER FOR 5/8" DIA. [M16] BOLT	THE THREAD DIRECTLY BEHIND THE NUT TO PREVENT EVENTUAL
3	1/2 LB. [0.23 kg]	8d COMMON NAILS	- LOOSENING OF THE NUTS.
2	1 2/3 LB. [0.76 kg]	12d COMMON BARBED SHANK NAILS	
7	1/2 LB. [0.23 kg]	16d COMMON BARBED SHANK NAILS	
1	12	#6 REBAR x 5'-0" [#19 x 1524]	
6	6 PIECES	12 GAUGE TIE WIRE x 5'-0" [1524.0]±	
	ALL NAILS MAY BE EITHE	R HAND DRIVEN OR DRIVEN WITH A PNEUMATIC NAILER.	
			DETAILED DRAWING

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN. DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC. 607-35
SECTION 607

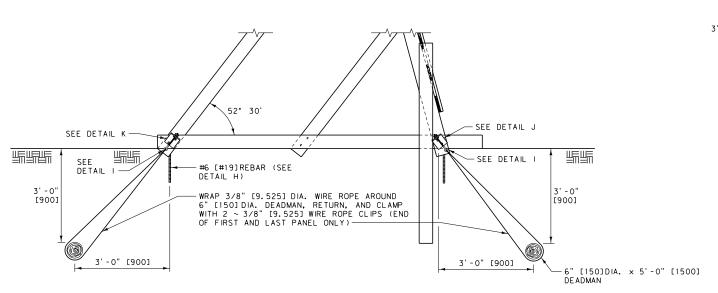
12' [3.6 m] WOOD SNOW FENCE W/ ANCHOR SYSTEM #1

EFFECTIVE: SEPTEMBER 2014

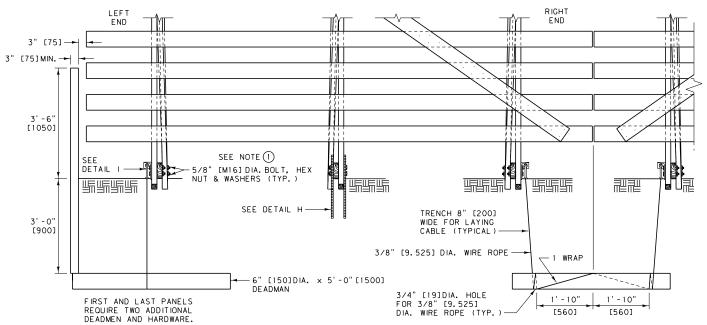
MONT ANA DEPARTMENT
OF TRANSPORTATION



ANCHOR SYSTEM #2 (FOR SWAMPY CONDITIONS)



LEFT END VIEW



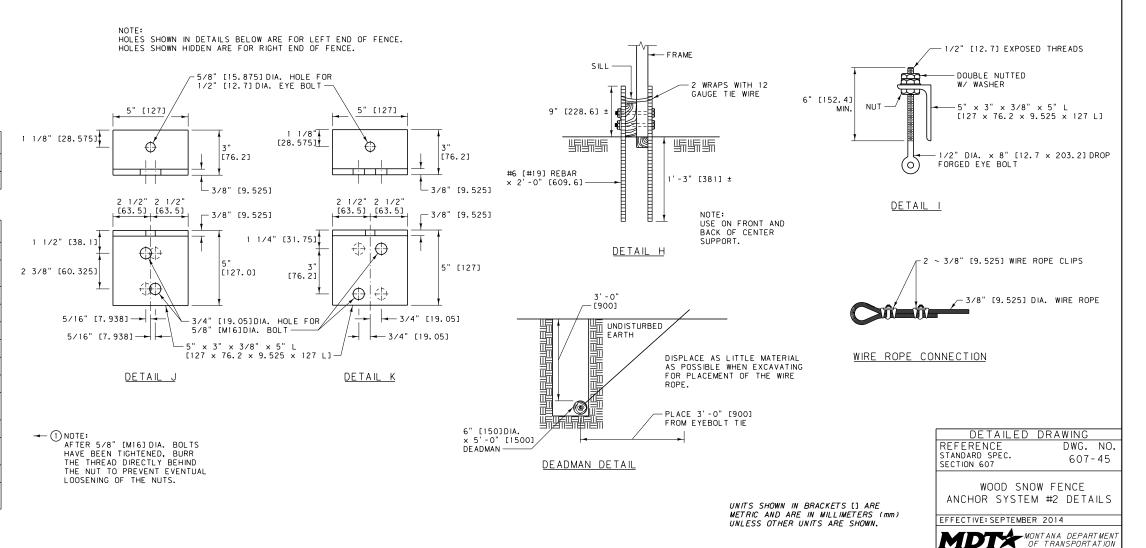
FRONT VIEW

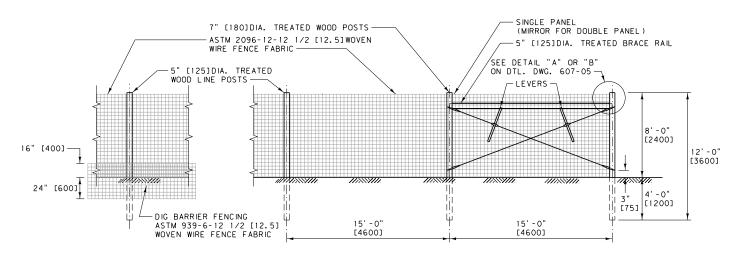
LUMBER - SNOW FENCE W/ ANCHOR SYSTEM #2

BILL OF MATERIALS FOR ONE PANEL

SAME AS FOR SNOW FENCE W/ ANCHOR SYSTEM #1

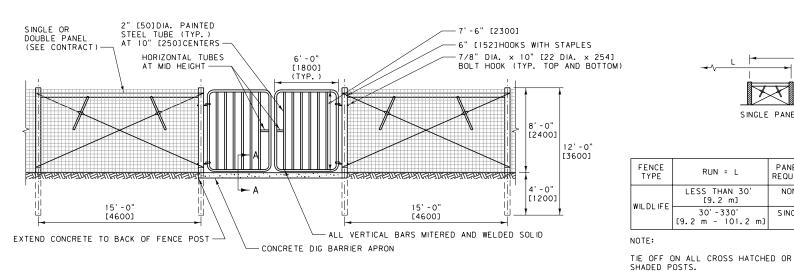
HARD	WARE - SNOW FENCE W/ ANCHOR SYSTEM #2		
	BILL OF MATERIALS FOR ONE 12' [3, 6m] PANEL		
	BILL OF MATERIALS FOR ONE 12 L3. BIIIJ PANEL		
QUANTITY	DESCRIPTION		
4	5" x 3" x 3/8" x 5" L [127 x 76.2 x 9.525 x 127 L]		
8	3/8" [9.525] WIRE CLIPS		
4	1/2" [12.7] DIA. DROP FORGED EYEBOLTS W/ 3 HEX NUTS		
4	FLAT WASHERS FOR 1/2" [12.7] DIA. EYEBOLTS		
4	#6 [#19] REBAR x 2'-0" [609.6] (3/4" [19.05] DIA.)		
4 PIECES	12 GAUGE TIE WIRE x 2'-0" [609.6]±		
30 FT. [8839.2]	3/8" [9.525] DIA. WIRE ROPE		
2	6" [150] DIA. × 5'-0" [1500] POST DEADMEN		
30	5/8" DIA. x 5" [M16 x 127] HEX BOLT (THREADED FULL LENGTH) AND NUT		
60	FLAT WASHERS FOR 5/8" [M16] BOLT		
	NOTE: NAILS REQUIRED ARE SAME AS SHOWN ON HARDWARE SUMMARY FOR SNOW FENCE W/ ANCHOR SYSTEM #1		

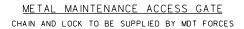


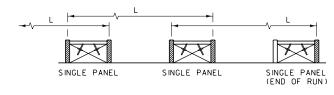


WILDLIFE FENCE W/ DIG BARRIER PANELS NOT SHOWN

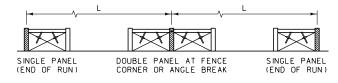
WILDLIFE FENCE

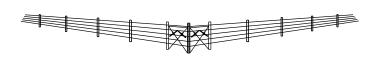




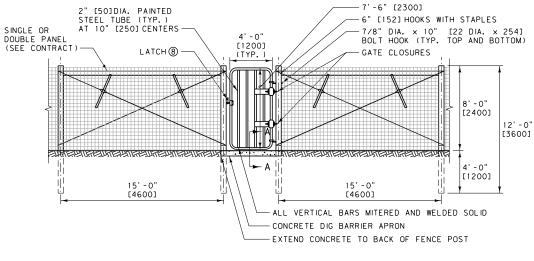


FENCE TYPE	RUN = L	PANELS REQUIRED
WILDLIFE	LESS THAN 30' [9.2 m]	NONE
	30'-330' [9.2 m - 101.2 m]	SINGLE

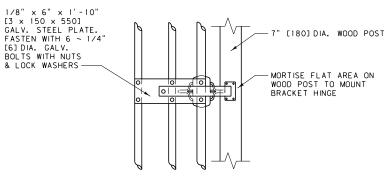




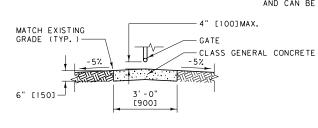
FENCE PANEL TYPES



METAL EQUINE GATE



TIE BAR MOUNTING DETAIL FOR GATE CLOSERS



SECTION A-A CENTER CONCRETE DIG BARRIER APRON UNDER CLOSED GATE

NOTES:

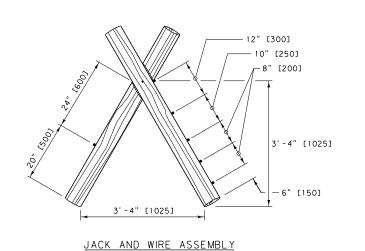
- ① PLACE ALL FENCE WIRE ON PASTURE SIDE OF POST, EXCEPT ON CURVES. THEN, PLACE THE WIRE ON THE OUTSIDE OF THE CURVE.
- 2 POST SPACING IS GENERALLY MEASURED PARALLEL TO GROUND.
- (3) LINE POST SPACING IS 15'-0" [4600]CENTER TO CENTER. LINE POST SPACING FROM BRACE OR PANEL POST IS 15'-0" [4600]CENTER TO CENTER.
- (4) TO ATTACH WOVEN WIRE TO AN END POST, REMOVE TWO OR THREE VERTICAL STAY WIRES FROM THE END OF THE FENCE. PLACE THE FIRST COMPLETE VERTICAL STAY WIRE AGAINST THE 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
- (5) A DEADMAN MAY BE A PRECAST CONCRETE BLOCK,
 A CAST IN PLACE CONCRETE BLOCK, A ROCK OR
 OTHER APPROVED OBJECT WEIGHING AT LEAST 260 LB.
 [120 kg] BURY THE DEADMAN IN THE GROUND WITH AT
 LEAST 2'-0" [600] OF COVER. ATTACH THE DEADMAN
 TO THE FENCE WITH 3 STRANDS OF 9 GAUGE WIRE OR 6 STRANDS OF 12 1/2 [12.5] GAUGE WIRE. DTL. DWG. NO. 607-10 FOR ALTERNATE DEADMAN.
- (6) STAPLE THE BOTTOM, TOP, CENTER AND ALTERNATE WIRES OF WOVEN WIRE TO WOOD LINE POSTS.
- ⑦ STAPLE ALL WIRES OF WOVEN WIRE TO WOOD CORNER POSTS OR POST USED TO TIE-OFF WIRE.
- (8) PROVIDE LATCH THAT ALLOWS FOR ONE HANDED OPERATION. RELEASES TO ALLOW GATE TO SWING IN EITHER DIRECTION AND CAN BE LOCKED.

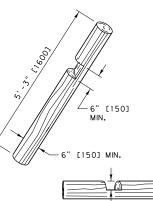
UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING REFERENCE DWG. NO. 607-50 SECTION 607

WILDLIFE FENCE



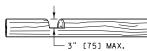


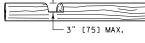


NOTCH JACK LEGS TO A DEPTH OF APPROXIMATELY ONE-HALF THE DIA. OF THE LOG. PROVIDE 6" [150] MIN. DIA. LOG FOR JACK LEG.

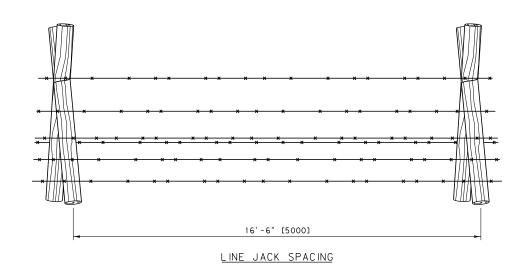
SKEW EACH JACK NOTCH AND ENSURE WIDTH IS APPROX. EQUAL TO LOG DIA. (ASSEMBLE AS SHOWN)

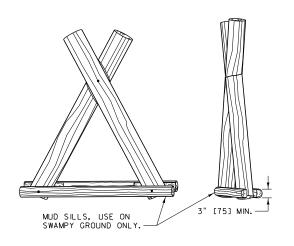
DRIVE ONE 6" [150] RINGED NAIL INTO EACH SIDE OF THE JACK THROUGH NOTCHED JOINT. CLINCH PROTRUDING NAIL ENDS AS NEEDED.

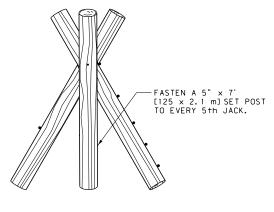


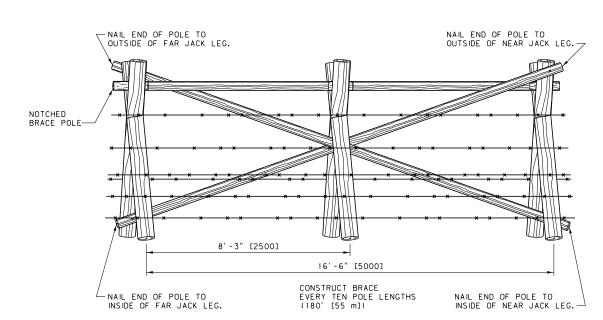


JACK LEG NOTCHING









MUD SILL

SET POST BRACE

AT POINTS OF CONTACT WITH JACKS, NOTCH POLES TO A DEPTH PROVIDING 3" [75] MIN. PENETRATION OF THE 6" [150] RINGED NAIL INTO JACK.

18' [5.5 m] UNIFORM LENGTH (3" [75] DIA. SMALL END) POLES. STRIP OF BARK ON TOP AND BOTTOM OF POLES.

BRACED PANEL

BRACE POLE NOTCHING

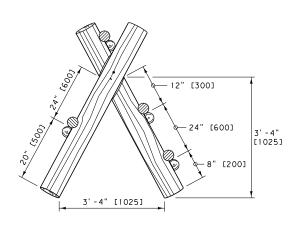
NOTE: ALL POLES, POSTS, RAILS, OR WOOD ITEMS WILL BE TREATED.

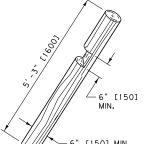
UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING REFERENCE STANDARD SPEC. DWG. NO. 607-55 SECTION 607

JACKLEG WIRE FENCE



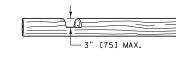




NOTCH JACK LEGS TO A DEPTH OF APPROXIMATELY ONE-HALF THE DIA. OF THE LOG. PROVIDE 6" [150] MIN. DIA. LOG FOR JACK LEG.

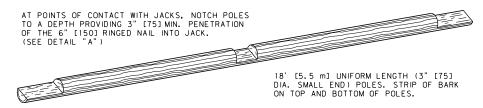
SKEW EACH JACK NOTCH AND ENSURE WIDTH IS APPROX. EQUAL TO LOG DIA. (ASSEMBLE AS SHOWN)

DRIVE ONE 6" [150] RINGED NAIL INTO EACH SIDE OF THE JACK THROUGH NOTCHED JOINT. CLINCH PROTRUDING NAIL ENDS AS NEEDED.

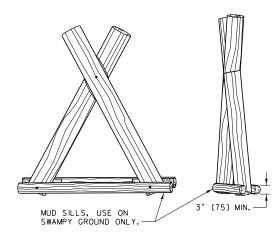


JACK AND POLE ASSEMBLY

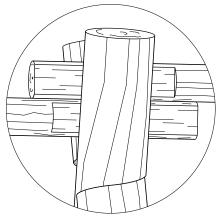
JACK LEG NOTCHING



POLE NOTCHING

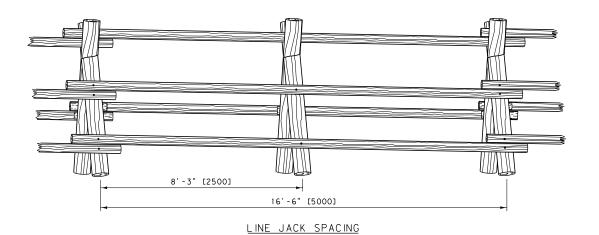


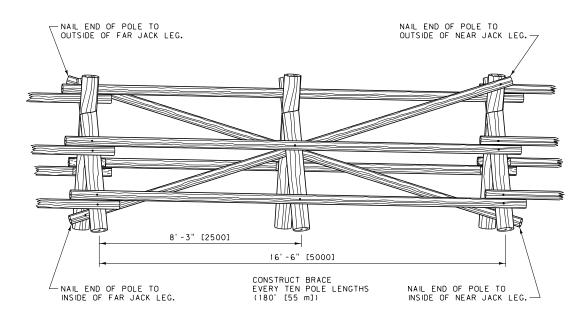




TYPICAL POLE NOTCHING AT JACK

DETAIL "A"





BRACED PANEL

UNITS SHOWN IN BRACKETS [] ARE
METRIC AND ARE IN MILLIMETERS (mm)
NOTE: ALL POLES, POSTS, RAILS, OR
WOOD ITEMS WILL BE TREATED.

UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC.
SECTION 607

DETAILED DRAWING

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JACKLEG POLE FENCE

