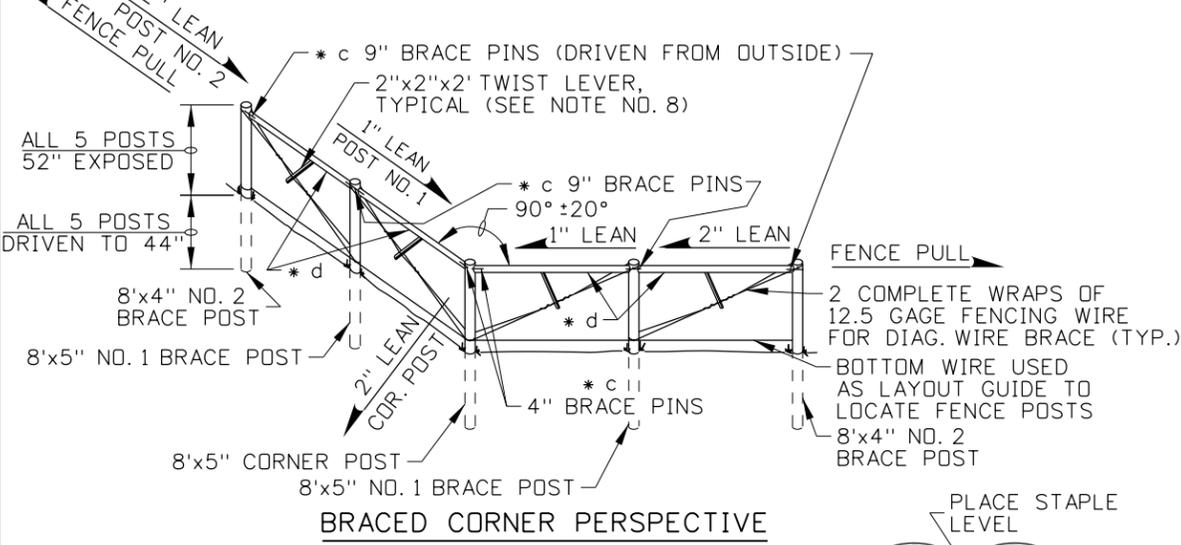


FENCE GROUNDING TABLE		
kV	* GROUNDING INTERVAL	FENCE DISTANCE FROM TRANSMISSION ϵ
500	200'	<100'
500	500'	100' - 200'
345	400'	<100'
345	1000'	100' - 150'
>230	500'	50' - 100'
100-230	400'	WITHIN R/W
<100	1/4 MI.	WITHIN R/W

* GROUND FENCE SECTIONS THAT ARE SHORTER THAN THE GROUNDING INTERVAL ONCE.

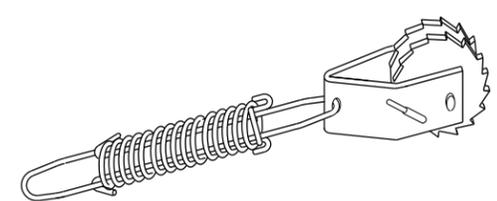
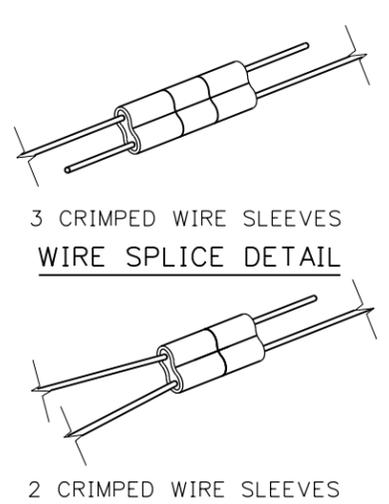
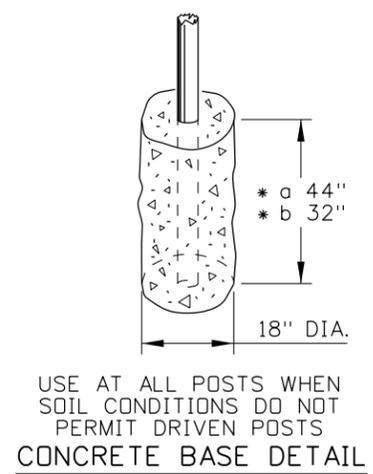
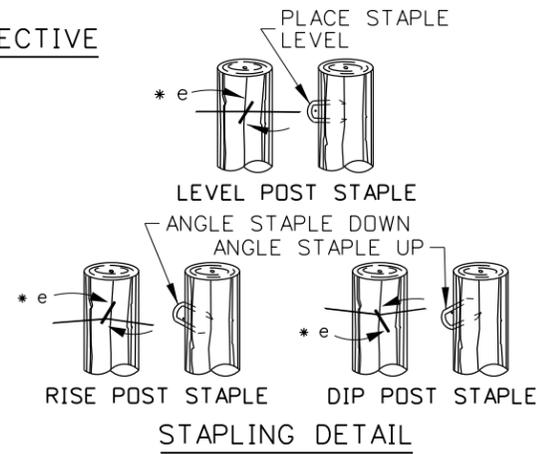
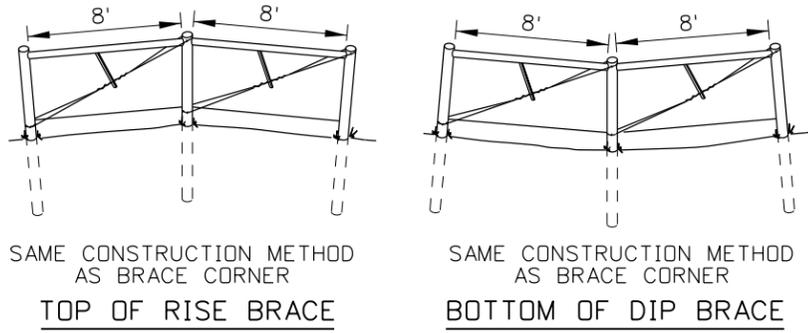


- * a DRIVE 44" DEEP (SEE CONCRETE BASE DETAIL & NOTE NO. 4)
- * b DRIVE 32" DEEP (SEE CONCRETE BASE DETAIL & NOTE NO. 4)
- * c INSTALL 3/8" DIA. GALVANIZED STEEL BRACE PINS WITH THE LENGTH SHOWN. PRE DRILL TIMBERS.
- * d 7'-11" x 4" OUTSIDE HORIZ. TIMBERS.
- * e ROTATE STAPLE ON POSTS TO STRADDLE ACROSS THE WOOD GRAIN AND ALLOW ENOUGH SPACE FOR WIRE TO SLIDE THROUGH THE BACK OF THE STAPLE.

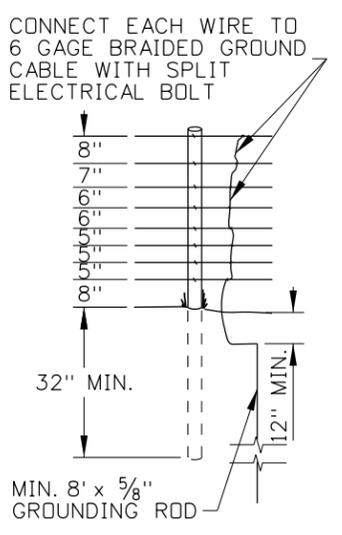
MAXIMUM LENGTH OF WIRE PER IN-LINE TIGHTENER TABLE		
LEVEL TERRAIN		UNEVEN TERRAIN
STRAIGHT	4000'	REDUCE LENGTHS SHOWN BY 250' FOR EACH MAJOR RISE OR DIP.
ONE 90° CORNER	3000'	
TWO 90° CORNERS	2000'	
THREE 90° CORNERS	1500'	
FOUR 90° CORNERS	1000'	

NOTES

1. INSTALL FENCE IN ACCORDANCE WITH THE PUBLICATION HOW TO BUILD FENCES WITH USS MAX-TEN 200 HIGH-TENSILE FENCE WIRE, UNLESS OTHERWISE SPECIFIED.
2. PRESSURE TREAT WOOD POSTS AND STAYS IN ACCORDANCE WITH AASHTO M 133. MEASURE TIMBER DIAMETERS SHOWN AT THE SMALL END.
3. TO ALLOW FOR EXPANSION AND CONTRACTION, DO NOT STAPLE THE WIRE TIGHT TO THE POSTS. THE STAPLES ARE 1 3/4" - 9 GAGE WITH SLASH CUT POINTS. ENSURE THAT THE STAPLES ARE ZINC COATED IN ACCORDANCE WITH ASTM A 116, CLASS 1.
4. END POSTS, BRACE POSTS AND LINE POSTS ARE RECOMMENDED TO BE DRIVEN INTO THE GROUND WHERE SOIL CONDITIONS PERMIT. SEE CONCRETE BASE FOR INSTALLATION WHERE SOIL CONDITIONS DO NOT PERMIT DRIVEN POSTS.
5. ENSURE THAT BRACE PINS, WIRE CLIPS, TENSION INDICATOR SPRINGS, AND IN-LINE TIGHTENERS ARE ZINC COATED IN ACCORDANCE WITH ASTM A116, CLASS 3.
6. USE 12.5 GAGE STEEL FENCE WIRE WITH A MINIMUM OF 200,000 PSI TENSILE STRENGTH. ENSURE THAT THE WIRE IS ZINC COATED IN ACCORDANCE WITH ASTM A116, CLASS 3.
7. PLACE THE IN-LINE WIRE TIGHTENERS AS CLOSE TO THE CENTER OF THE FENCE RUN AS PRACTICABLE. PLACE TENSION INDICATOR SPRING(S) ON THE SECOND WIRE FROM THE TOP.
8. ACHIEVE PROPER TENSION ON THE DIAGONAL BRACE WIRE BY TWISTING THE WIRES 3 (MIN.) TO 5 (MAX.) TURNS. SECURELY FASTEN THE TWIST LEVER TO THE TOP HORIZONTAL TIMBER.
9. LINE WIRES SHOULD BE STAPLED TO THE LINE POSTS ONLY AFTER TAKING UP PRELIMINARY TENSION OF APPROXIMATELY 150 LBS. ON EACH WIRE.
10. STRING LINE WIRES ON THE LIVESTOCK SIDE OF THE FENCE, EXCEPT ON CURVES AND CORNERS. ON CURVES AND CORNERS STRING THE LINE WIRES ON THE OUTSIDE.
11. GROUND HIGH TENSION WIRE ACCORDING TO THE FENCE GROUNDING TABLE AND AS SHOWN ON GROUNDING DETAIL.
12. NOT TO SCALE.



COMPRESSION OF THE INDICATOR SPRING BY 1 3/4" WILL INDICATE A TENSION OF APPROXIMATELY 250 LBS. ±10 LBS.



GROUNDING DETAIL

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	1-97	MSM					
2	10-00	MSM					
3	10-04	MSM					
4	12-12	RDL					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: f2b_1212.std
 DRAWING DATE: SEPTEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
 HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
 CHIEF ENGINEER

STANDARD DRAWING

HIGH TENSION 8 WIRE FENCE

English

STANDARD DRAWING NO.
F-2-B

SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY: RYAN D. LANCASTER
 DATE ORIGINAL SIGNED: DECEMBER 17, 2012