



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

LT MURRAY – WHISKEY DICK UNIT WILDLIFE AREA REPAIR AND REPLACE FENCING KS:R35:13-2

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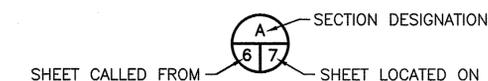
ABBREVIATIONS

APPROX.	-	APPROXIMATELY
BM	-	BENCH MARK
CL	-	CENTERLINE
CLR.	-	CLEARANCE
Ø	-	DIAMETER
ELEV	-	ELEVATION
FTG	-	FOOTING
GALV	-	GALVANIZED
GA.	-	GAUGE
LF	-	LINEAR FEET
LG	-	LONG
MFG.	-	MANUFACTURER'S
MISC.	-	MISCELLANEOUS
MOD.	-	MODEL
NF	-	NORTH FORK
OC	-	ON CENTER
PT	-	PRESSURE TREATED
REQ'D	-	REQUIRED
SEC.	-	SECTION
S.F.	-	SQUARE FEET
SHT.	-	SHEET
SPEC'S.	-	PROJECT SPECIFICATIONS
TYP	-	TYPICAL
W.S.	-	WATER SURFACE

SHEET SYMBOLS



DETAIL



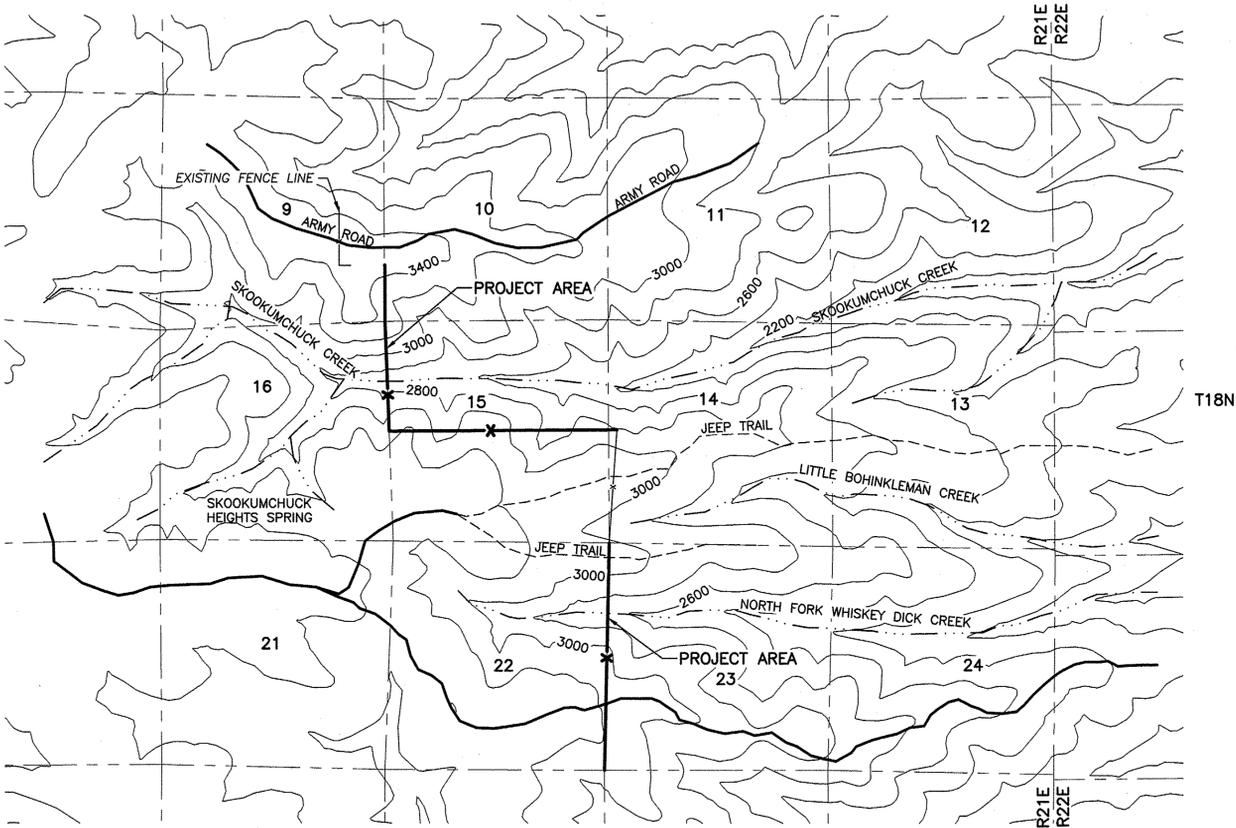
SECTION



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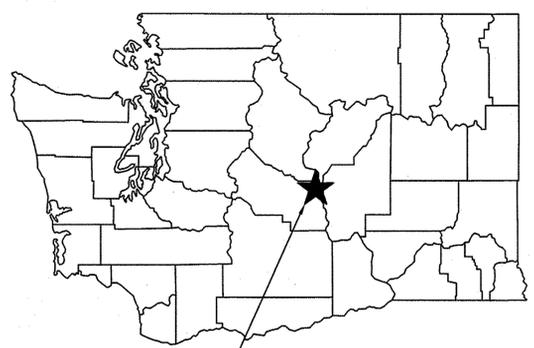
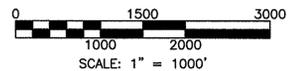
REFERENCE DESIGNATION TO NOTE
APPEARING ON SAME SHEET OR A
PART OR MATERIAL IN A SCHEDULE

PROJECT NO. KS:R35:13-2	
SHEET	OF
1	8

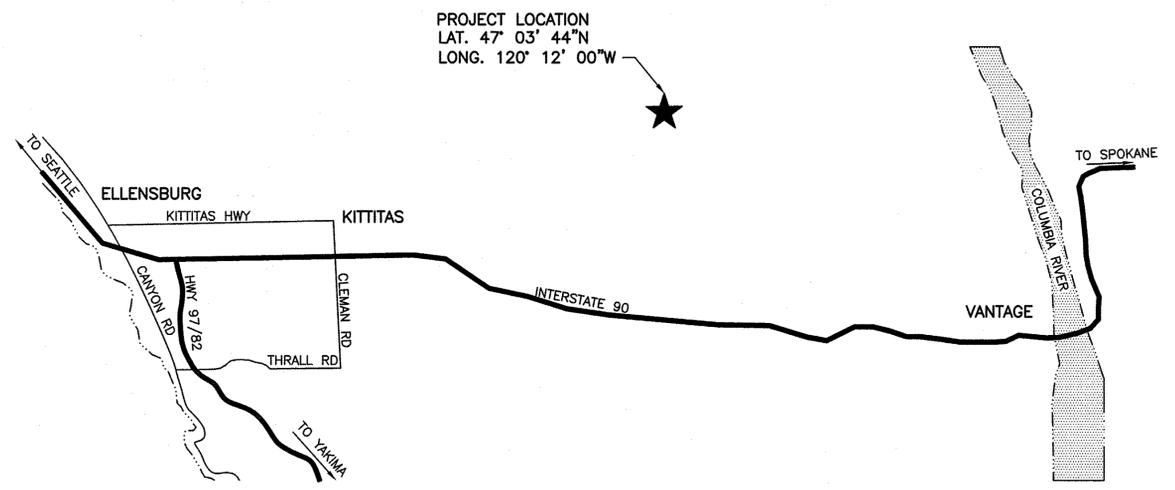


EXISTING SITE PLAN
SCALE: 1" = 2000'

NOTE:
LOCATION OF FENCE AND REQUIREMENTS IN FENCE LINE SHALL BE FLAGGED OR STAKED BY PROJECT MANAGER/ENGINEER OR REPRESENTATIVE APPOINTED BY WDFW



PROJECT LOCATION
STATE MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

NOTE:
ACCESS TO PROJECT LOCATION SHALL BE COORDINATED THROUGH PROJECT MANAGER/ENGINEER OR REPRESENTATIVE APPOINTED BY WDFW

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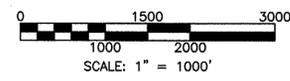
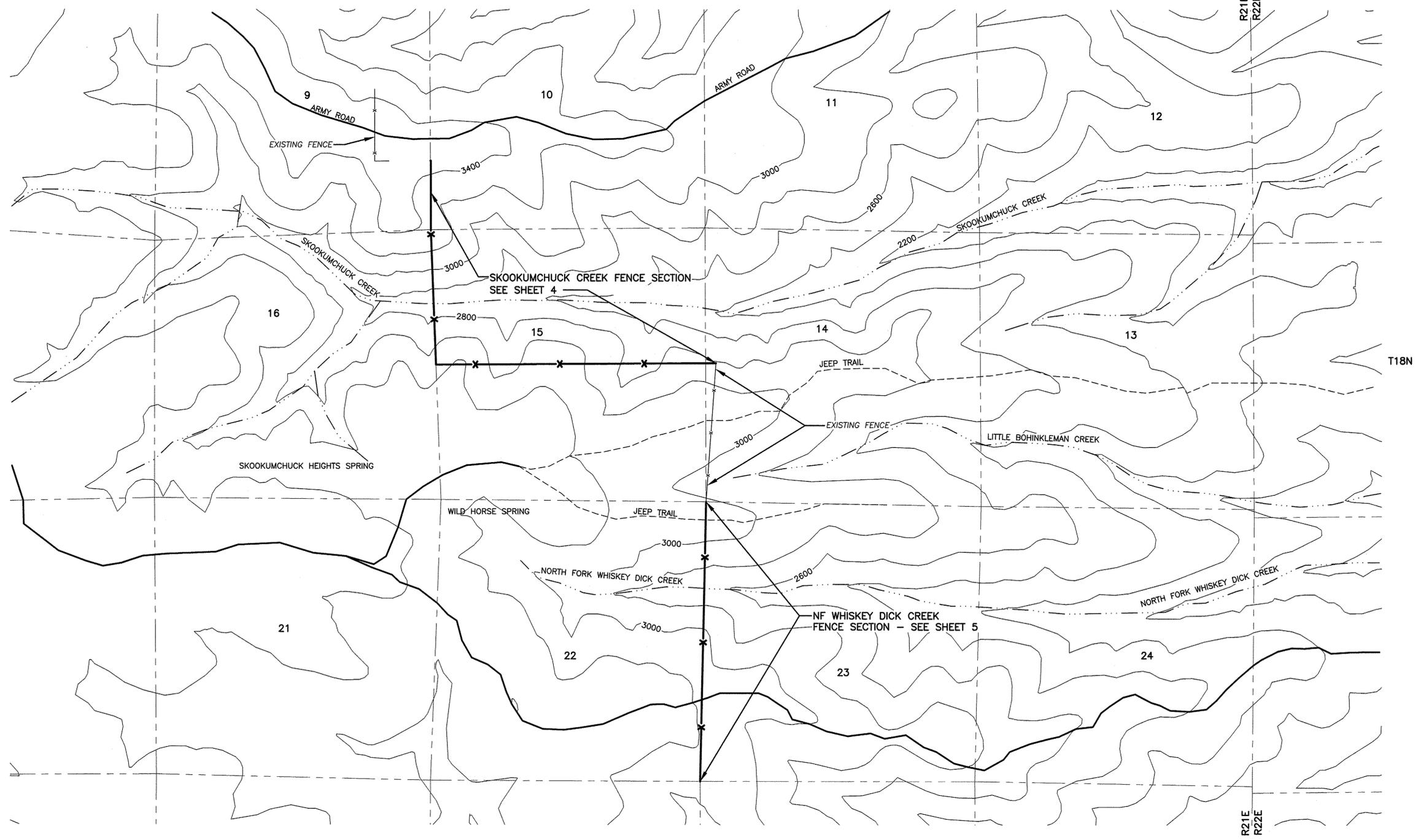
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE: 02/18/2014	
PROGRAM		DATE: 02/18/2014	

0 1" BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

DESIGNED BY J. GIGSTEAD
CHECKED BY
DRAWN BY R. ENGELHARDT
DATE 02/18/2014

LT MURRAY WLA - WHISKEY DICK UNIT
WILDLIFE AREA FENCING
REPAIR AND REPLACE FENCING
EXISTING SITE PLAN AND VICINITY MAP

PROJECT NO. KS:R35:13-2
SHEET 2 OF 8



SITE PLAN
SCALE: 1" = 1000'

NOTE:
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CHIEF ENGINEER: *[Signature]* DATE: *11/26/14*
PROGRAM: DATE: _____

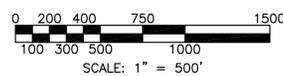
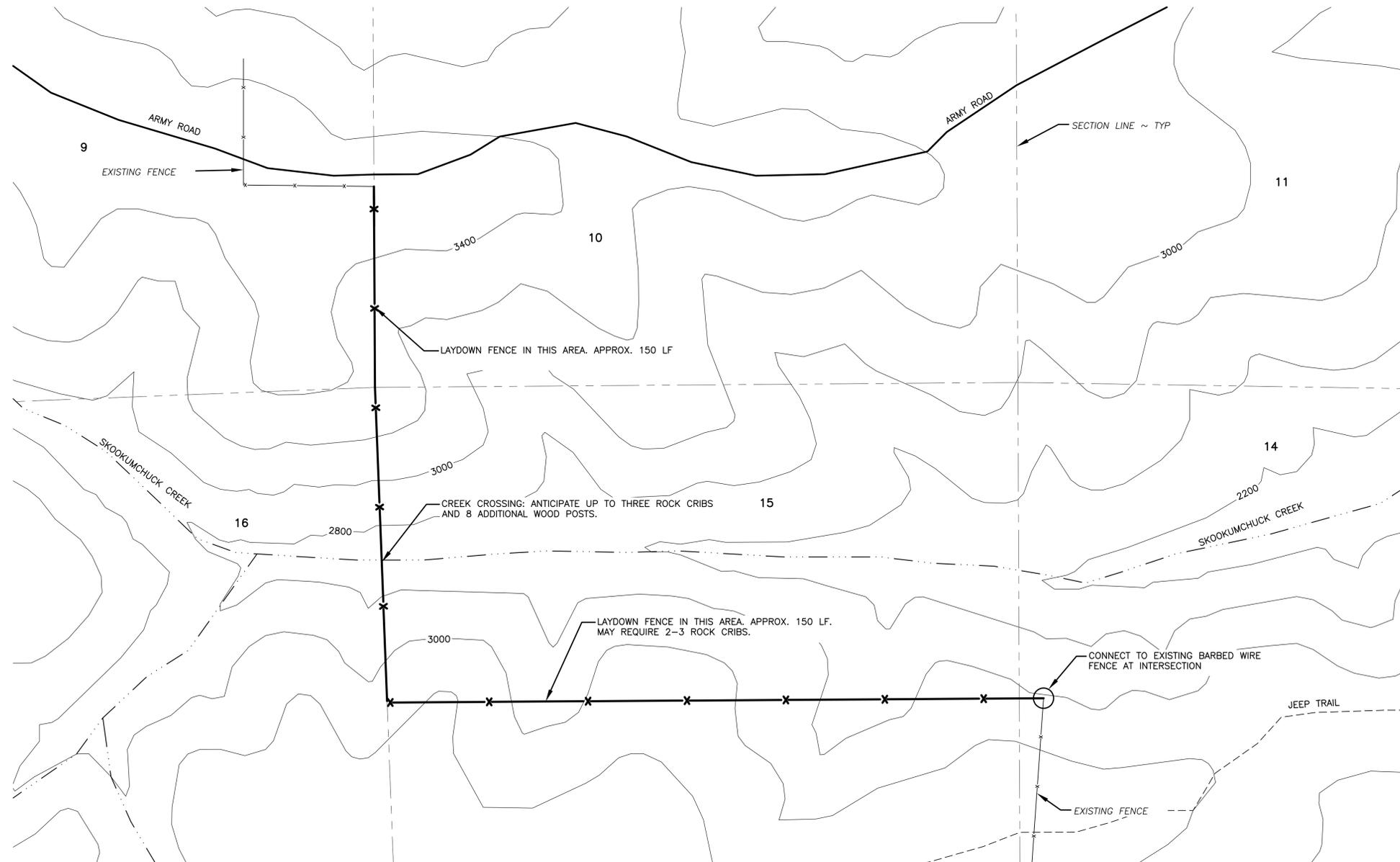
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DRAWN BY R. ENGELHARDT
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SITE PLAN

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SKOOKUMCHUCK CREEK SECTION

APPROX. 9,700 LF (HORZ)
 APPROX. 10,000 LF (SLOPE)
 APPROX. 12' IN COMBINATION OF ROCK JACKS,
 ROCK CRIBS, OR ADDITIONAL WOOD POSTS.



SKOOKUMCHUCK CREEK SITE
 SCALE: 1" = 500'

NOTE:
 LOCATION OF FENCE AND REQUIREMENTS IN FENCE LINE
 SHALL BE FLAGGED OR STAKED BY PROJECT
 MANAGER/ENGINEER OR REPRESENTATIVE APPOINTED BY
 WDFW

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0	1"
BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS	
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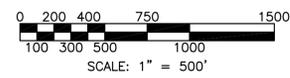
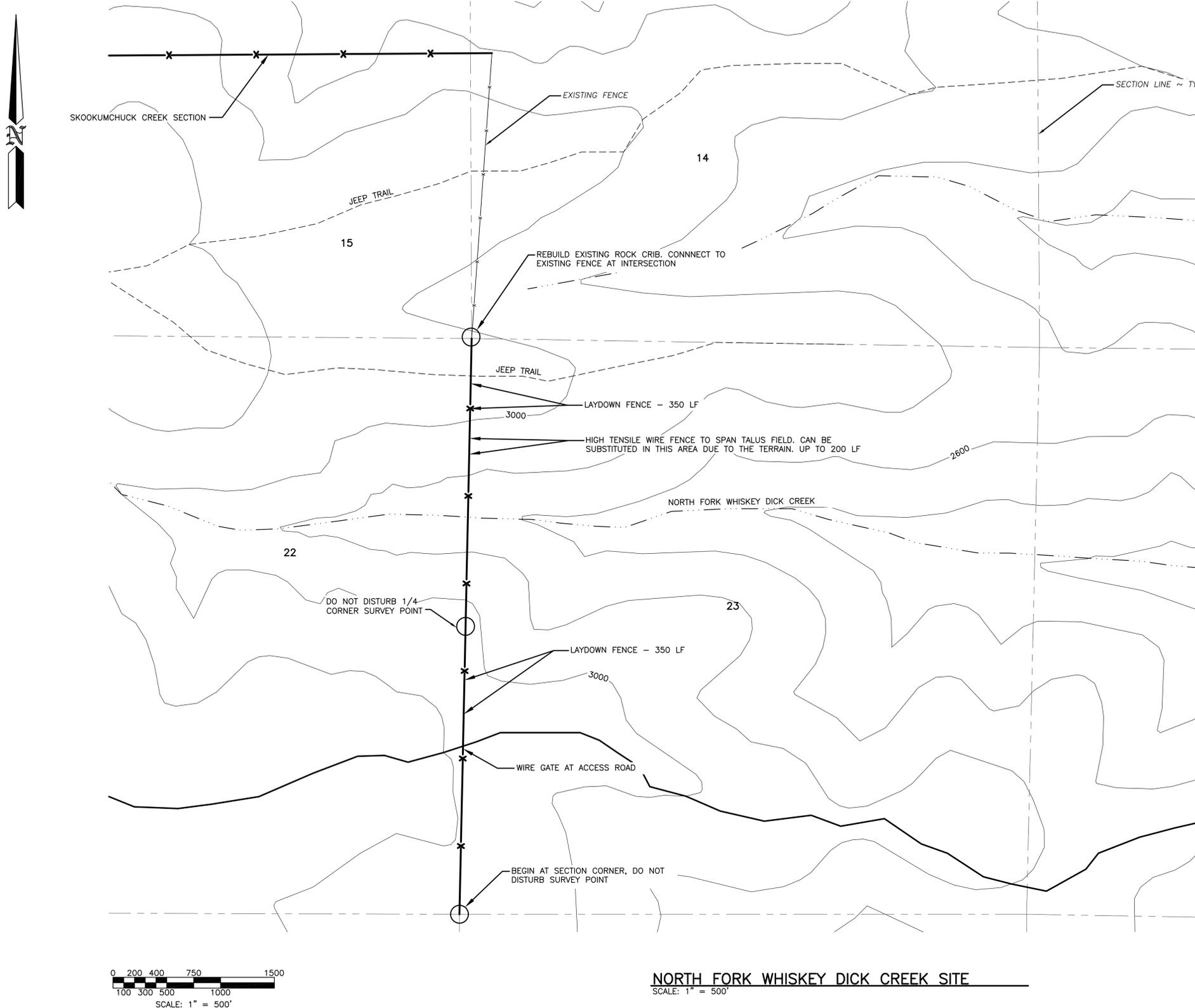
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 SKOOKUMCHUCK CREEK SECTION

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 4 8

NF WHISKEY DICK CREEK SECTION

APPROX. 5,360 LF (HORZ)
 APPROX. 5,735 LF (SLOPE)
 APPROX. 16 ROCK JACKS.



NORTH FORK WHISKEY DICK CREEK SITE
 SCALE: 1" = 500'

NOTE:
 LOCATION OF FENCE AND REQUIREMENTS IN FENCE LINE SHALL BE FLAGGED OR STAKED BY PROJECT MANAGER/ENGINEER OR REPRESENTATIVE APPOINTED BY WDFW

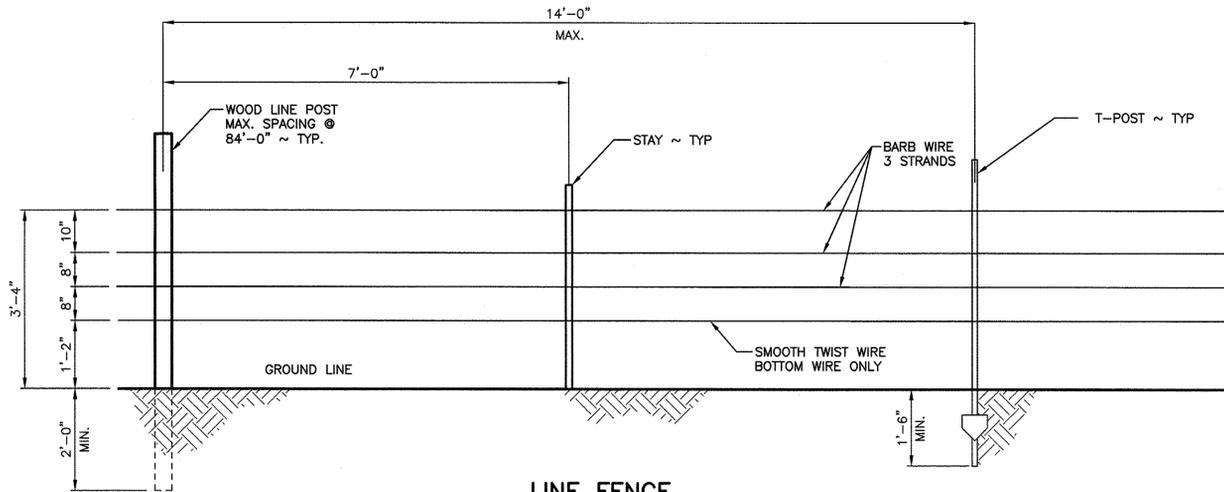
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0	1"
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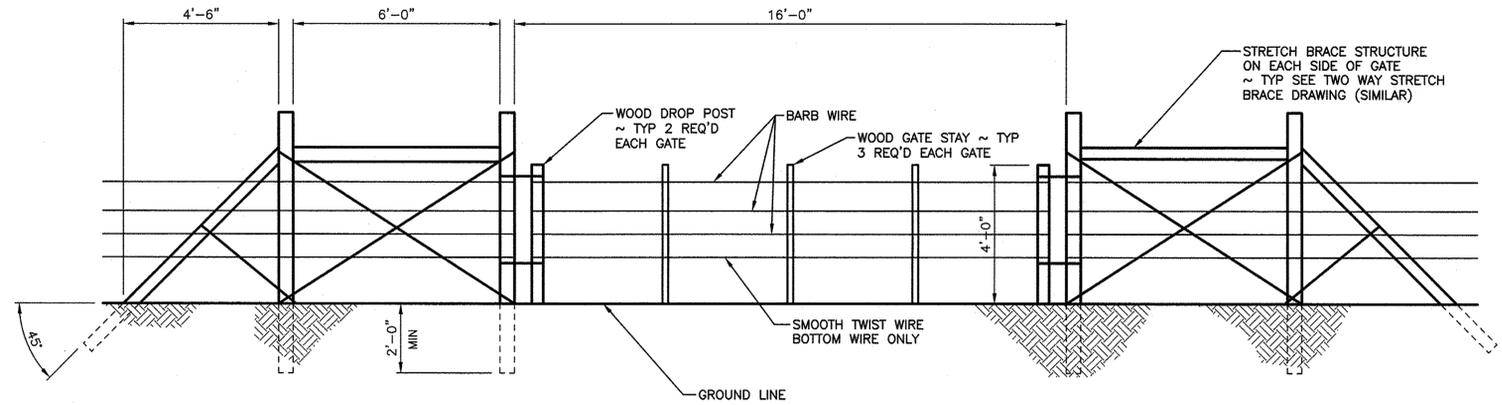
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WILDLIFE AREA FENCING
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 NF WHISKEY DICK CREEK SECTION

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LINE FENCE
NOT TO SCALE



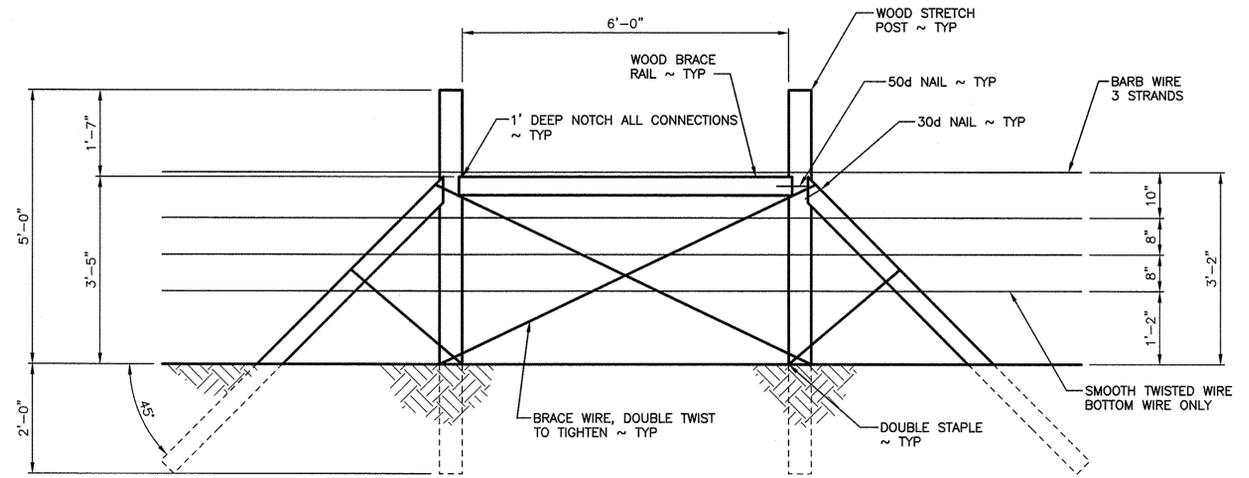
DROP GATE
NOT TO SCALE

NOTE:

GATE SHALL HAVE THREE VERTICAL STAYS AT 1/4 POINTS ALONG GATE. THE DROP POSTS LOCATED AT EACH END SHALL BE 5"-6" WOOD POSTS CUT TO A LENGTH OF 4'-0", CONSTRUCTED OF BRACE WIRE AND LOOPED AROUND END BRACE POSTS TO FACILITATE CLOSURE OF THE GATE. SPACING OF THE LONGITUDINAL WIRES SHALL BE THE SAME AS THE LINE FENCE.

NOTES:

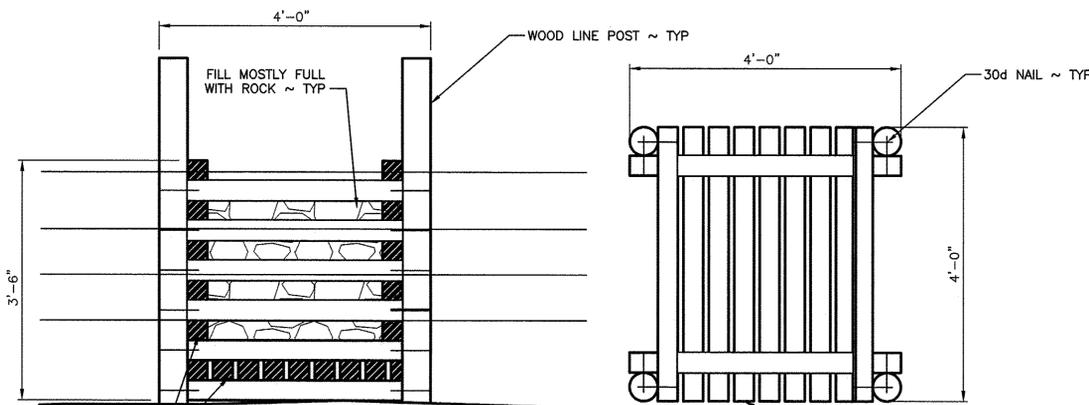
1. ALL POST SPACING SHALL NOT EXCEED 14'-0".
2. RATIO OF WOOD POSTS TO STEEL POSTS SHALL BE 1 WOOD TO 5 STEEL POSTS.
3. WOOD LINE POST SHALL BE AT LEAST 7'-0" LONG x 5" TO 6" IN DIAMETER. POSTS SHALL BE BURIED A MINIMUM DEPTH OF 24". POSTS SHALL BE DUG IN AND TAMPED. NOT DRIVEN. POSTS SHALL BE PRESSURE TREATED AS DESCRIBED IN SPECIFICATIONS.
4. STEEL T POST SHALL BE HEAVY DUTY WEIGHT, 1.33 LBS PER FOOT, GREEN WITH WHITE TOP, MINIMUM OF 5'-0" LENGTH, ALL STEEL POSTS SHALL BE DRIVEN TO A DEPTH OF 18". IF DEPTH CANNOT BE REACHED DUE TO GROUND CONDITIONS, USE METHODS APPROVED BY ENGINEER.
5. AT THE DIRECTION OF THE ENGINEER WOOD POSTS MAY BE SUBSTITUTED WITH ROCK JACKS WHERE POST DEPTH CANNOT BE REACHED DUE TO GROUND CONDITIONS, ROCK JACKS SHALL BE CONSTRUCTED FROM PRESSURE TREATED 2 x 6 MATERIALS AND PT WOOD POSTS. SEE DETAIL SHEET 7
6. STAYS SHALL BE EITHER 9 1/2 GA. 42" WIRE TWIST STAYS OR 48" 2" x 2" PT. WOOD STAYS. STAYS SHALL BE INSTALLED BETWEEN EVERY POST IN LINE. WOOD STAYS ARE PREFERRED.
7. SMOOTH TWIST WIRE SHALL BE 12 1/2 GA., BARBLESS, SMOOTH TWISTED WIRE, CLASS 3 GALV.
8. BARB WIRE SHALL BE CLASS 3 GALV. 12 1/2 GA., 4 POINT 14 GA. BARBED, WITH BARBS SPACED AT 5".
9. STAPLES TO ATTACH WIRE TO WOOD POST SHALL BE BARBED GALV. 9 GA. 1 3/4" LONG.
10. WIRE CLAMPS TO ATTACH BARB WIRE TO STEEL POSTS SHALL BE GALV. 11 GA. WIRE.
11. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



TWO WAY STRETCH BRACE
NOT TO SCALE

NOTES:

1. CORNER AND STRETCH BRACE POSTS SHALL BE AT LEAST 7'-0" LONG x 6" IN DIAMETER. POSTS SHALL BE BURIED TO THE MINIMUM DEPTH SHOWN. POSTS SHALL BE DUG IN AND TAMPED, NOT DRIVEN. POSTS SHALL BE PRESSURE TREATED AS DESCRIBED IN SPECIFICATIONS.
2. POSTS MAY BE SUBSTITUTED WITH ROCK JACKS WHERE DIRECTED BY THE ENGINEER.
3. BRACE WIRE SHALL BE SMOOTH 9 GA. GALV. WIRE, MEETING THE REQUIREMENTS OF THE SPECIFICATIONS.
4. SMOOTH TWIST WIRE SHALL BE 12 1/2 GA., BARBLESS, SMOOTH TWISTED WIRE, CLASS 3 GALV.
5. BARB WIRE SHALL BE 12 1/2 GA., 4 POINT 14 GA. BARBED, WITH BARBS SPACED AT 5", CLASS 3 GALV.
6. STAPLES TO ATTACH WIRE TO WOOD POSTS SHALL BE GALV. 9 GA., 1 3/4" LONG.
7. STRETCH BRACE SPACING SHALL BE A MAXIMUM DISTANCE OF 1320'. (1/4 MILE).
8. STRETCH BRACES SHALL BE CONSTRUCTED WITH 30d AND 50d GALVANIZED COMMON NAILS.
9. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



FRONT

PLAN

ROCK CRIB
NOT TO SCALE

NOTE:

ROCK CRIBS CAN BE USED IN LIEU OF ANY OF THE OTHER STRUCTURAL ELEMENTS IF AGREED TO BY OWNER.

4" x 4" PR TREATED WOOD CRIBBING, ALTERNATING PATTERN ~ TYP

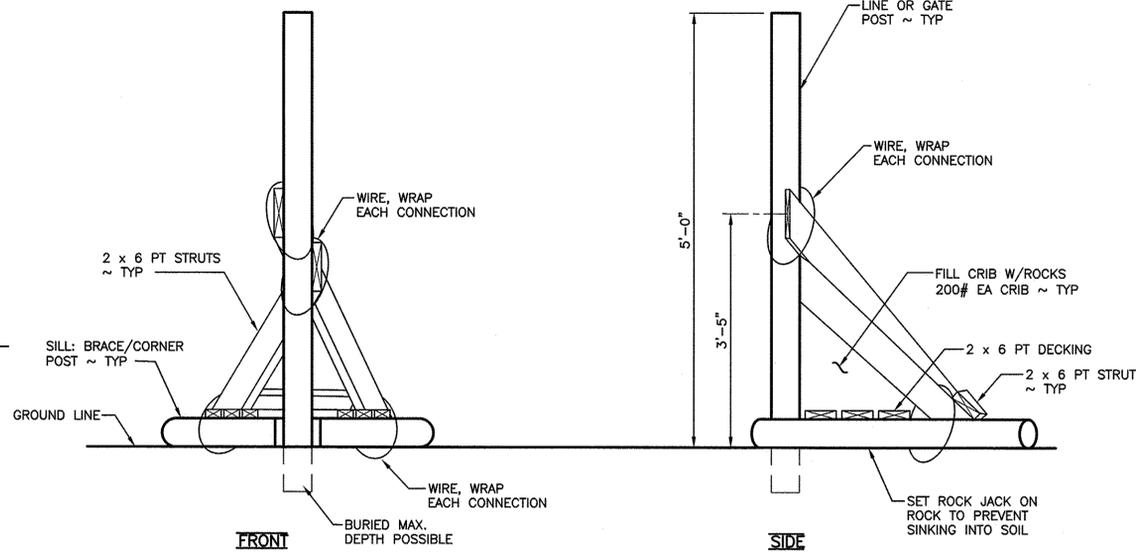
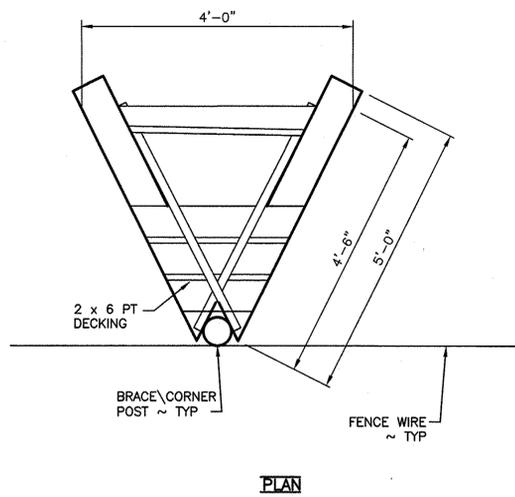
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TYPICAL FENCE DETAILS

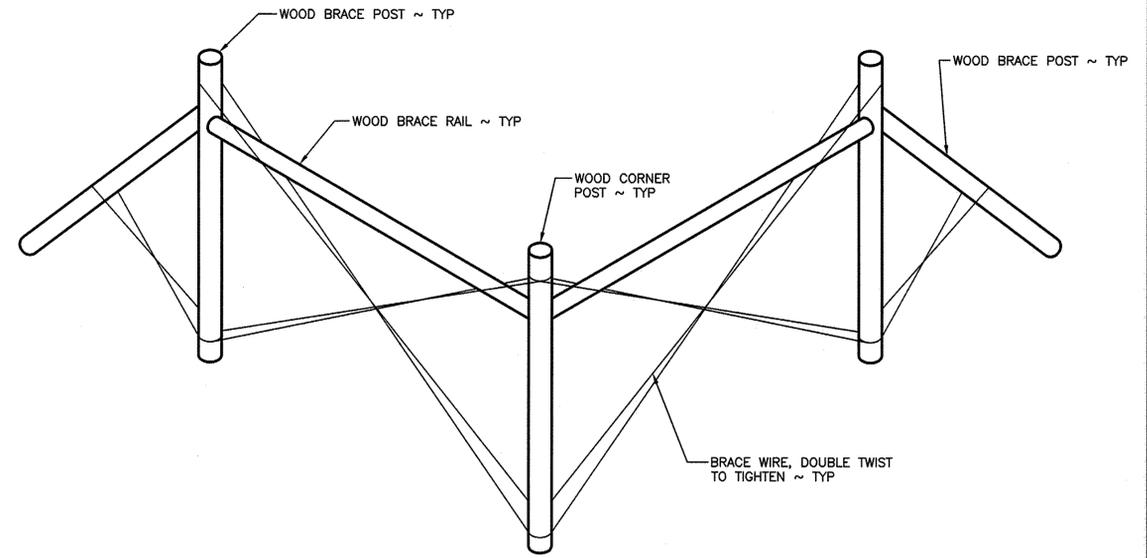
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SHEET 6 OF 8



ROCK JACK
NOT TO SCALE

NOTES:

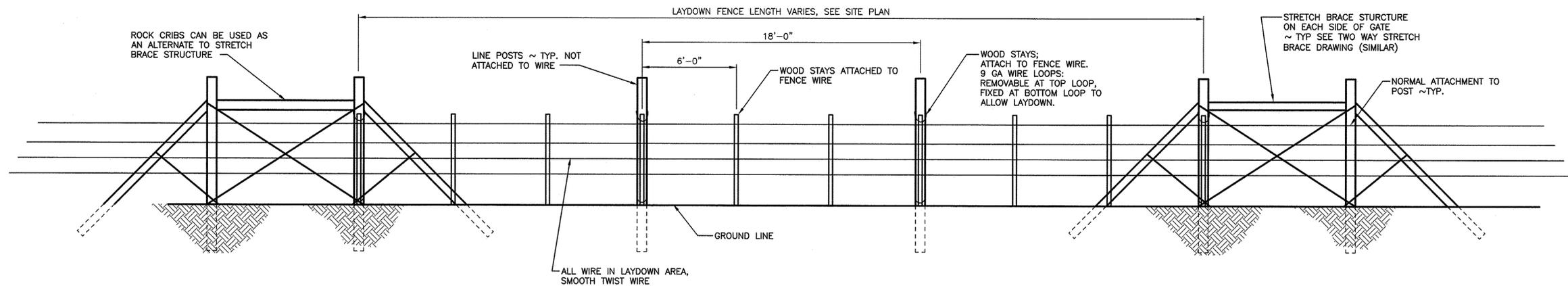
- BRACE/CORNERS SHALL BE AT LEAST 5'-0" x 5" TO 6" IN DIAMETER. POST SHALL BE PRESSURE TREATED AS DESCRIBED IN THE SPECIFICATIONS.
- 2x6 SILL, STRUTS, AND DECKING SHALL BE PRESSURE TREATED.
- ROCK JACKS ARE TO BE USED IN AREAS WHERE POST BURY DEPTH CANNOT BE ACHIEVED AND ONLY AS DIRECTED BY THE ENGINEER.
- ATTACH ROCK JACK MEMBERS WITH 20d BOX NAILS.
- LONGITUDINAL WIRES NOT SHOWN, SPACING SHALL BE THE SAME AS THE LINE FENCE.
- ROCK JACK SHOWN ON LEVEL GROUND. STRUTS MAY NEED TO BE LONGER THAN SHOWN IN SLOPING TERRAIN.
- FLOOR OF ROCK JACK SHALL BE LEVEL TO WITHIN ±2".
- SEE SPECS FOR ADDITIONAL REQUIREMENTS.



CORNER BRACE
NOT TO SCALE

NOTES:

- SEE TWO WAY STRETCH BRACE DRAWING FOR CONSTRUCTION DETAILS (SIMILAR).
- LONGITUDINAL WIRES NOT SHOWN, SPACING SHALL BE THE SAME AS THE LINE FENCE.



LAYDOWN FENCE
NOT TO SCALE

NOTE:

COORDINATE WITH OWNER REPRESENTATIVE TO ENSURE LAYDOWN SECTION FUNCTIONS AS DESIRED.

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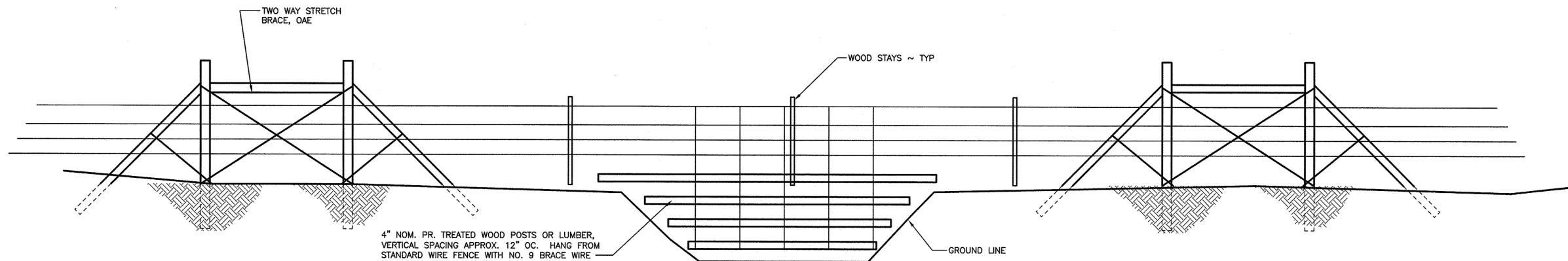
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0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

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WILDLIFE AREA FENCING
REPAIR AND REPLACE FENCING
TYPICAL FENCE DETAILS

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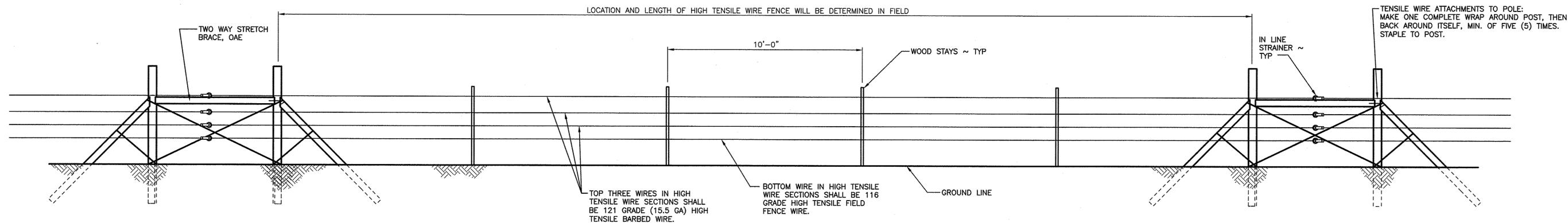


STREAM OR GULLEY CROSSINGS

NOT TO SCALE

NOTES:

1. INSTALL STRETCH BRACES ON EITHER SIDE OF GULLY OR STREAM.
2. SIZE AND ARRANGE HORZ. MEMBERS TO CLOSE GAPS.
3. DESIGNS MAY BE ADJUSTED AT THE DISCRETION OF THE OWNERS REPRESENTATIVE. SEE BLM\USFS FENCES GUIDE FOR ACCEPTABLE VARIATIONS.



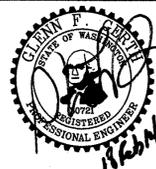
HIGH TENSILE WIRE FENCE

NOT TO SCALE

NOTE:

IN VERY DIFFICULT SECTIONS, AT THE DISCRETION OF THE OWNERS REPRESENTATIVE, HIGH TENSION WIRE FENCE SECTIONS MAY BE SUBSTITUTED FOR STANDARD FENCE.

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		PROGRAM	DATE: 02/18/2014

0" = 1"
BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

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LT MURRAY WLA - WHISKEY DICK UNIT

WILDLIFE AREA FENCING
REPAIR AND REPLACE FENCING
TYPICAL FENCE DETAILS

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