

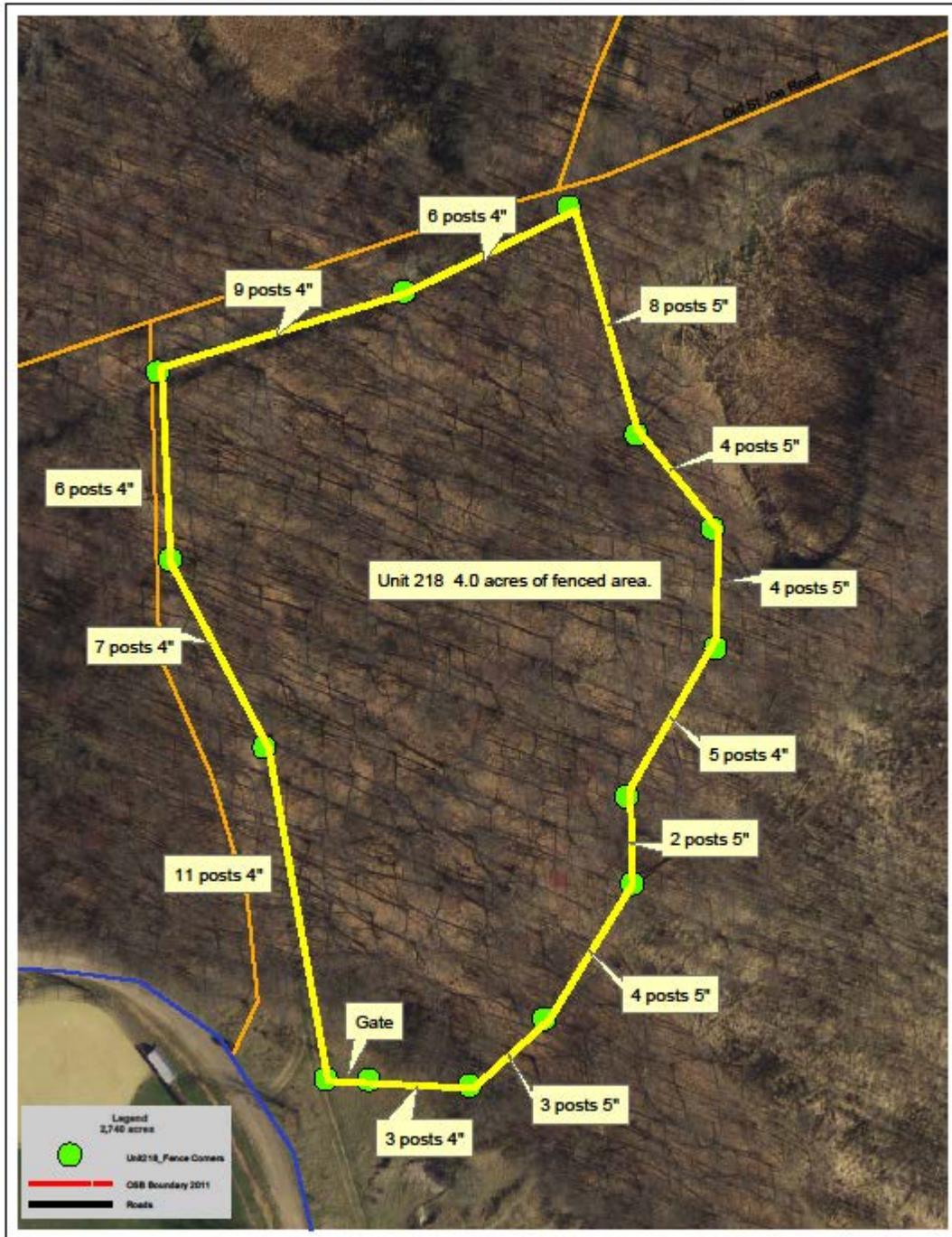
ORDER OF SAINT BENEDICT □ DEER FENCING FOR OAK REGENERATION □ PROJECT PLAN 20 June 2014

Stand Name	Compartment and Stand Number			Acres / Acres Treated																																																												
Clay Piles Shelterwood	218			4.0 ac. / 4.0 fenced																																																												
Legal Description	Sec	Twp	Rge	Township and County																																																												
SE ¼ of NW ¼	6	124	29	St. Joseph, Stearns																																																												
Proposed Activity Time	Actual Dates Completed																																																															
Summer 2014																																																																
CURRENT CONDITIONS																																																																
<p>This stand is an oak shelterwood with <1000 red oak seedlings per acre. Red oak seedlings were planted in two previous years. All were browsed to death. Red maple seedlings becoming prominent.</p> <p>Deer populations are 20+ /sq. mile. Deer browsing damage to oak regen is very high. A test deer enclosure has excellent oak regeneration, so fencing will prove useful.</p> <p>There is 1,800 feet of perimeter for this unit needing fencing. There are 14 corners, including 1 gate, in this unit.</p>																																																																
PROJECT ACTIONS																																																																
<p>8 FOOT WOVEN WIRE Construct a fence that will keep white-tailed deer out of the unit 99+% of the time. Provide 16' gates for management access. The fence must last at least 10 years and preferably 20.</p> <p>Use 8 foot woven wire (12 gauge-fixed knot). Put one smooth wire on top of the posts to help prevent damage from falling debris. Use CCA treated posts placed 20 feet apart with at least 3 feet in the ground. Staple wire to posts. Installation will be completed by a 8 person AmeriCorps crew with guidance from Henry Becker and Br. Walter Keiffer.</p> <p>Materials (and freight to field site)</p> <table> <tr> <td>12 gauge stay tite fence 330' 8' height fixed knot</td> <td>\$345.00/roll x 6 rolls (1980 feet)</td> <td>= \$2,070</td> <td>(short ends on hand)</td> </tr> <tr> <td>12 gauge solid lock fence 330' 4' height fixed knot</td> <td>\$210.00/roll x 0 rolls (0 feet)</td> <td>= \$ 0</td> <td></td> </tr> <tr> <td>7 foot Netting</td> <td>\$ /foot x feet</td> <td>= \$ 0</td> <td></td> </tr> <tr> <td>12 foot Netting</td> <td>\$ /foot x feet</td> <td>= \$ 0</td> <td></td> </tr> <tr> <td>6"x12' treated wood posts for corners</td> <td>\$20.00/post x 40</td> <td>= \$ 800</td> <td></td> </tr> <tr> <td>5"x12' treated wood posts for corner braces</td> <td>\$15.75/post x 55</td> <td>= \$ 866</td> <td>(0 on hand)</td> </tr> <tr> <td>4"x12' treated wood posts for line</td> <td>\$ 12.75/post x 47</td> <td>= \$ 599</td> <td>(0 on hand)</td> </tr> <tr> <td>4"x7' treated wood posts for line</td> <td>\$ 5.25/post x 0</td> <td>= \$ 0</td> <td></td> </tr> <tr> <td>50 lb. 2" barbed staples for 3300 feet</td> <td>\$ 75.00 (1 pail)</td> <td>= \$ 75</td> <td></td> </tr> <tr> <td>10" brace pins for corners</td> <td>\$ 1.00 x 30</td> <td>= \$ 30</td> <td></td> </tr> <tr> <td>5" brace pins for corners</td> <td>\$ 0.85 x 30</td> <td>= \$ 26</td> <td></td> </tr> <tr> <td>wire strainers for corners</td> <td>\$ 3.50 x 30</td> <td>= \$ 105</td> <td></td> </tr> <tr> <td>4000' coil HT smooth wire 170k 12.5 ga.</td> <td>\$ 92.00 (x1 roll)</td> <td>= \$ 92</td> <td>(0 roll on hand)</td> </tr> <tr> <td>splice sleeves/100 per bottle</td> <td>\$ 20 (2 bottles)</td> <td>= \$ 40</td> <td>(0 on hand)</td> </tr> <tr> <td colspan="2" style="text-align: right;">TOTAL MATERIALS</td> <td>= \$ 5,053</td> <td>(includes \$350 shipping)</td> </tr> </table>					12 gauge stay tite fence 330' 8' height fixed knot	\$345.00/roll x 6 rolls (1980 feet)	= \$2,070	(short ends on hand)	12 gauge solid lock fence 330' 4' height fixed knot	\$210.00/roll x 0 rolls (0 feet)	= \$ 0		7 foot Netting	\$ /foot x feet	= \$ 0		12 foot Netting	\$ /foot x feet	= \$ 0		6"x12' treated wood posts for corners	\$20.00/post x 40	= \$ 800		5"x12' treated wood posts for corner braces	\$15.75/post x 55	= \$ 866	(0 on hand)	4"x12' treated wood posts for line	\$ 12.75/post x 47	= \$ 599	(0 on hand)	4"x7' treated wood posts for line	\$ 5.25/post x 0	= \$ 0		50 lb. 2" barbed staples for 3300 feet	\$ 75.00 (1 pail)	= \$ 75		10" brace pins for corners	\$ 1.00 x 30	= \$ 30		5" brace pins for corners	\$ 0.85 x 30	= \$ 26		wire strainers for corners	\$ 3.50 x 30	= \$ 105		4000' coil HT smooth wire 170k 12.5 ga.	\$ 92.00 (x1 roll)	= \$ 92	(0 roll on hand)	splice sleeves/100 per bottle	\$ 20 (2 bottles)	= \$ 40	(0 on hand)	TOTAL MATERIALS		= \$ 5,053	(includes \$350 shipping)
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<p>Corners cost an extra \$75 each in materials. Avoid corners as possible.</p> <p>Price per thousand feet for materials = \$2,800. Price/acre for materials = \$1,260/ac. Very high! Removal cost in 10-15 years will be quite high!</p>																																																																

FOREST MANAGEMENT PLANS:
<p>Unit 218 is being managed for long-term growth of oak. This is a very good oak site. It is small for a fence, but has very high potential. It is also an area of high visibility.</p>

Please discuss ideas for improvements to the plan with the forester.

Saint John's Abbey Arboretum Lands and the campus of Saint John's University



2010 Photo

1 inch = 0.02 miles

0 0.025 0.05
Miles



Example of 8 foot woven wire fence installed at Saint John's Abbey Arboretum.

(With smooth wire on top, total height is 9 feet.)