

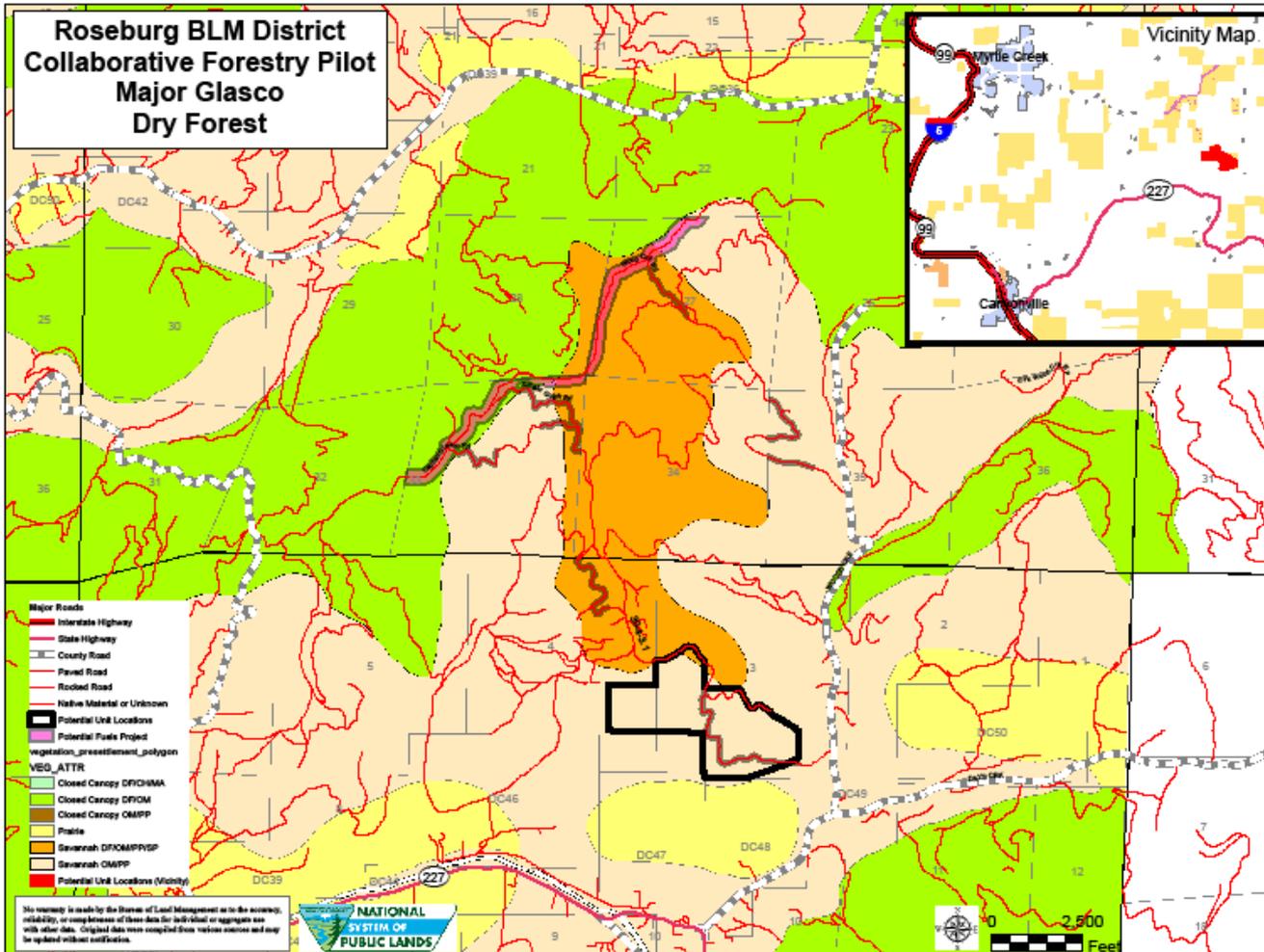
Dry/ Fire Prone Forest

Major Glasco
Current Condition

Major Glasco Dry/ Fire Prone Forest

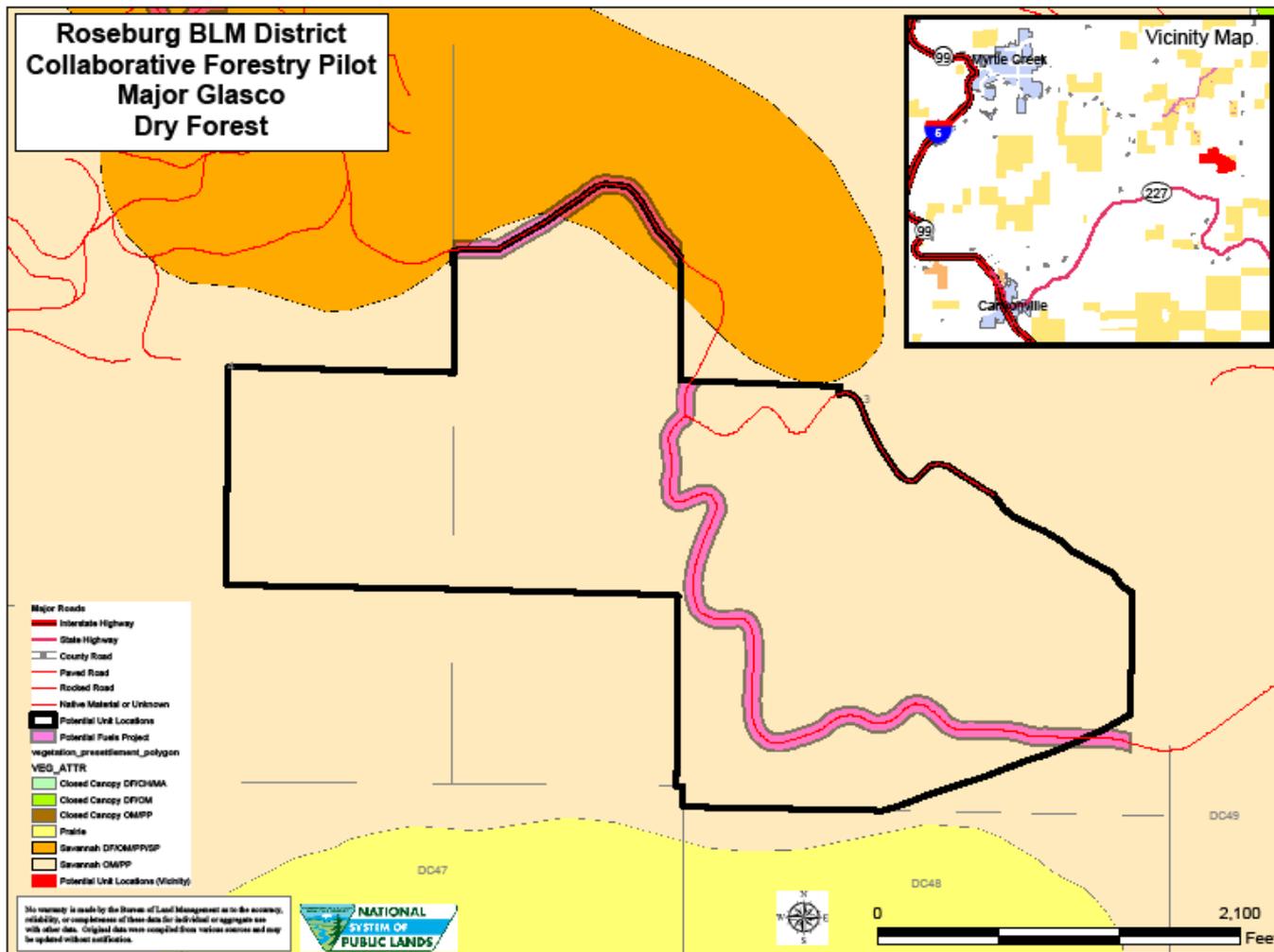
- Stand History
 - Pre-settlement condition
- Current Condition
 - Large block
 - Potential Fuels Break
- Northwest Forest Plan Prescription
 - Major Glasco Regeneration Harvest

Stand History



- Presettlement Condition (1850's) Map
- Analysis done by Nature Conservancy 2000
- Based on 1850's survey records
- 2 distinct areas
 - Large block
 - Fuel break

Stand History



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Stand History (large block)



Nearby
private
ownership
south aspect
grazed and
deliberately
burned since
settlement

Stand History (large block)

- Common Misconception
 - Closed Canopy vs. savannah
- Not advocating return to historic condition
- Legacy features developed under different conditions
 - Implications for future management
 - Future large hardwoods, large limbs/deformities conifers
 - Species diversity
- Inter-tree competition is very high
 - Historically this would have been relieved by disturbance (wind, fire)
 - Tree vigor is low (*low immune system*)
 - Lower resistance to insects, disease, wind, fire
- Fuels buildup



Stand History (large block)

- Pre-settlement species composition
 - Mostly oak (black and white) and madrone, scattered ponderosa pine
 - A few Douglas-fir and incense cedar (mostly in swales)
- Fire Return Interval
 - Probably quite frequent (based on pre-settlement condition)
 - In 1850's, fires became much less frequent
 - American Indian landscape burning practices
 - Subsequent fire suppression



Current Condition (large block)

Dry Low Elevation Southern Aspect



< 40 inches
of Rain/year

Elevation
1000' – 1700'

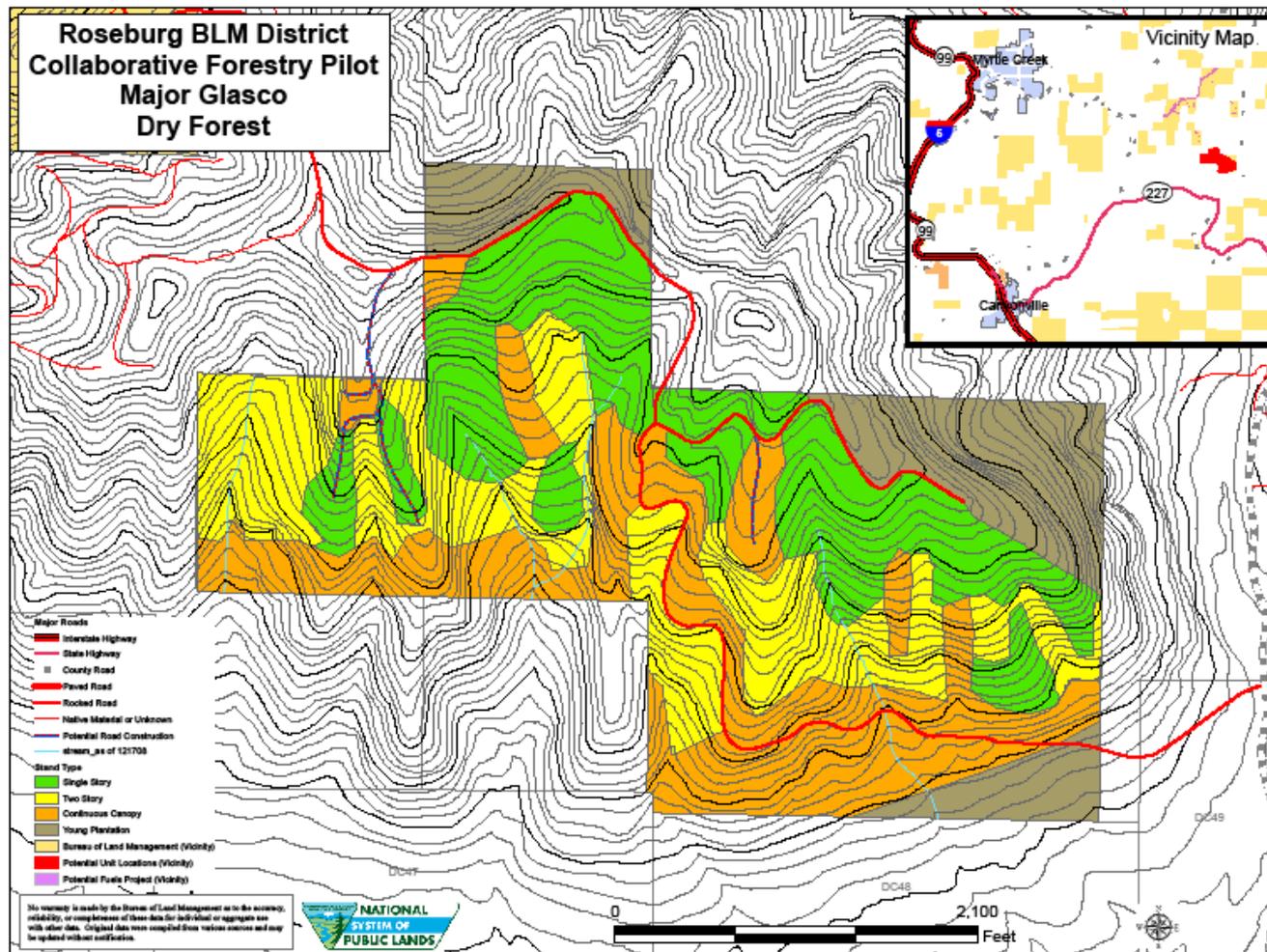
In wildland
urban
interface

Current Condition (large block)

- Stand Age = 140 years
- Stand initiation date 1870
 - Complete conifer establishment on the site happened between 1850 and 1910
 - First in the swales, then on East Aspects, and finally on ridges and SW aspects.
- Three major stand types
 - Single story
 - Two story
 - Continuous canopy (vertical canopy arrangement)
- Site Class 5 (lowest on a scale from 1-5)
 - Very low rates of tree growth

Current Condition (large block)

Three Stand Types



- Green = single story
- Yellow = two story
- Orange = continuous canopy
- Approx. 1/3 in each type

Current Condition (large block)

Single Story



- Single dominant overstory
 - Mostly Douglas-fir and incense cedar with scattered ponderosa pine
 - Some suppressed hardwoods (madrone) and declining remnant trees
- Grass/forb understory
- Few large snags
- Some small accumulations of down wood (old oak logs and recent blowdown)

Current Condition (large block)

Two Story



- Single dominant overstory
 - Mostly Douglas-fir and incense cedar with scattered ponderosa pine
 - Some suppressed hardwoods (madrone) and declining remnant trees
- Second layer of suppressed incense cedar and higher number of hardwoods (madrone, bigleaf maple in riparian areas)
- Few large snags, small dead hardwood snags (oak and madrone)
- Some small accumulations of down wood (old oak logs and recent blowdown)
- Very high relative density

Current Condition (large block)

Continuous Canopy



- Multi layered canopy
 - Higher hardwood component
 - Many suppressed hardwoods (madrone and oak) and a few declining remnant trees
 - Poison oak and grass/forbs in uplands and sword fern in draws
- Abundant shade tolerant (incense cedar regeneration)
- Few large snags, many small dead hardwood snags (oak and madrone)
- Moderate accumulations of down wood (old oak logs and recent blowdown)
- Very high relative density

Current Condition (large block)

Legacy Components



Open grown hardwoods

Current Condition (large block)

Legacy Components



Oak logs: remains of historic condition

Current Condition (large block)

Legacy Components



Oak snags: remains of historic condition

Current Condition (large block)

Legacy Components



Large open grown conifers (only a handful remain alive)

Current Condition (large block)

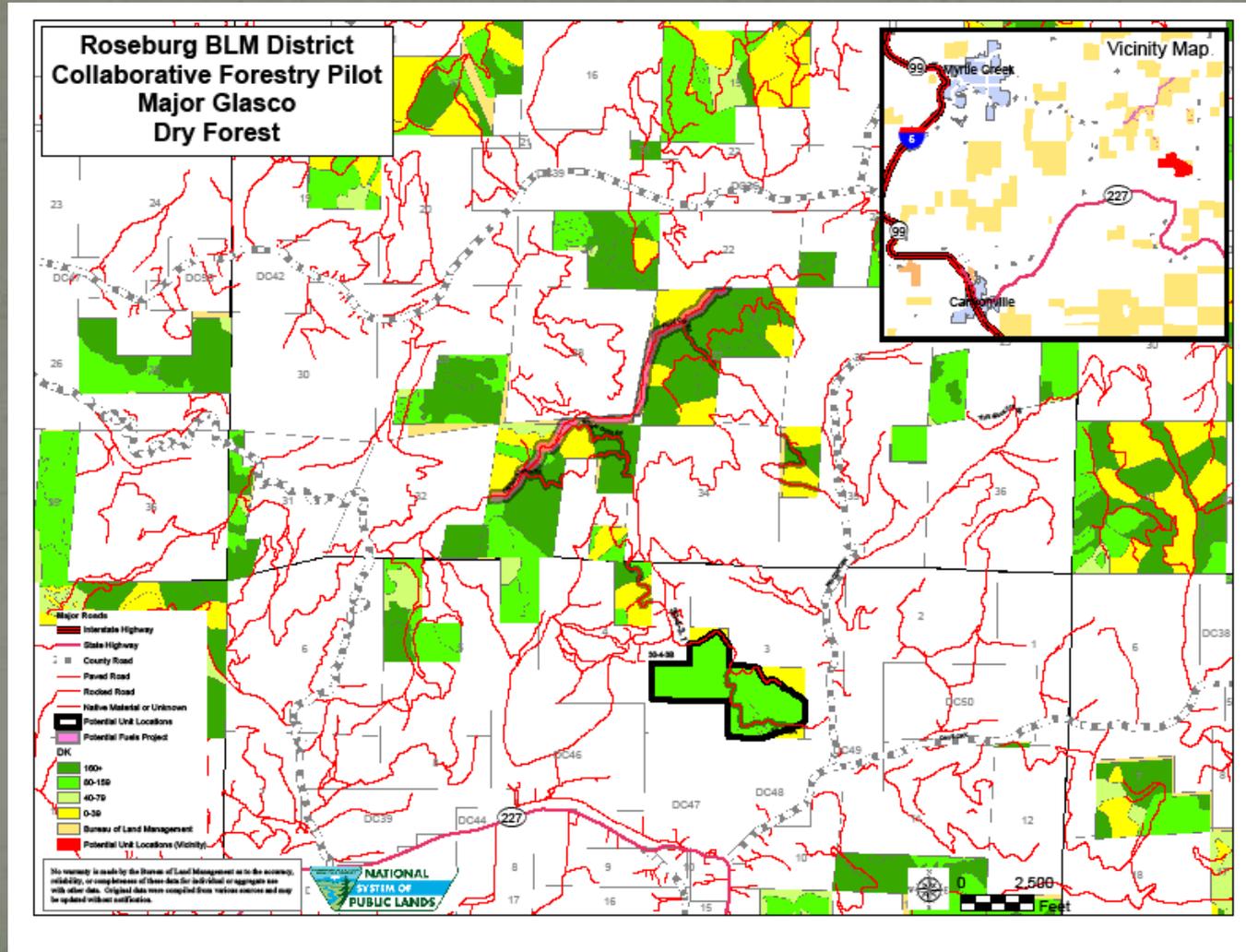
Legacy Components



Living Oak trees: very few remain alive due to canopy closure/competition

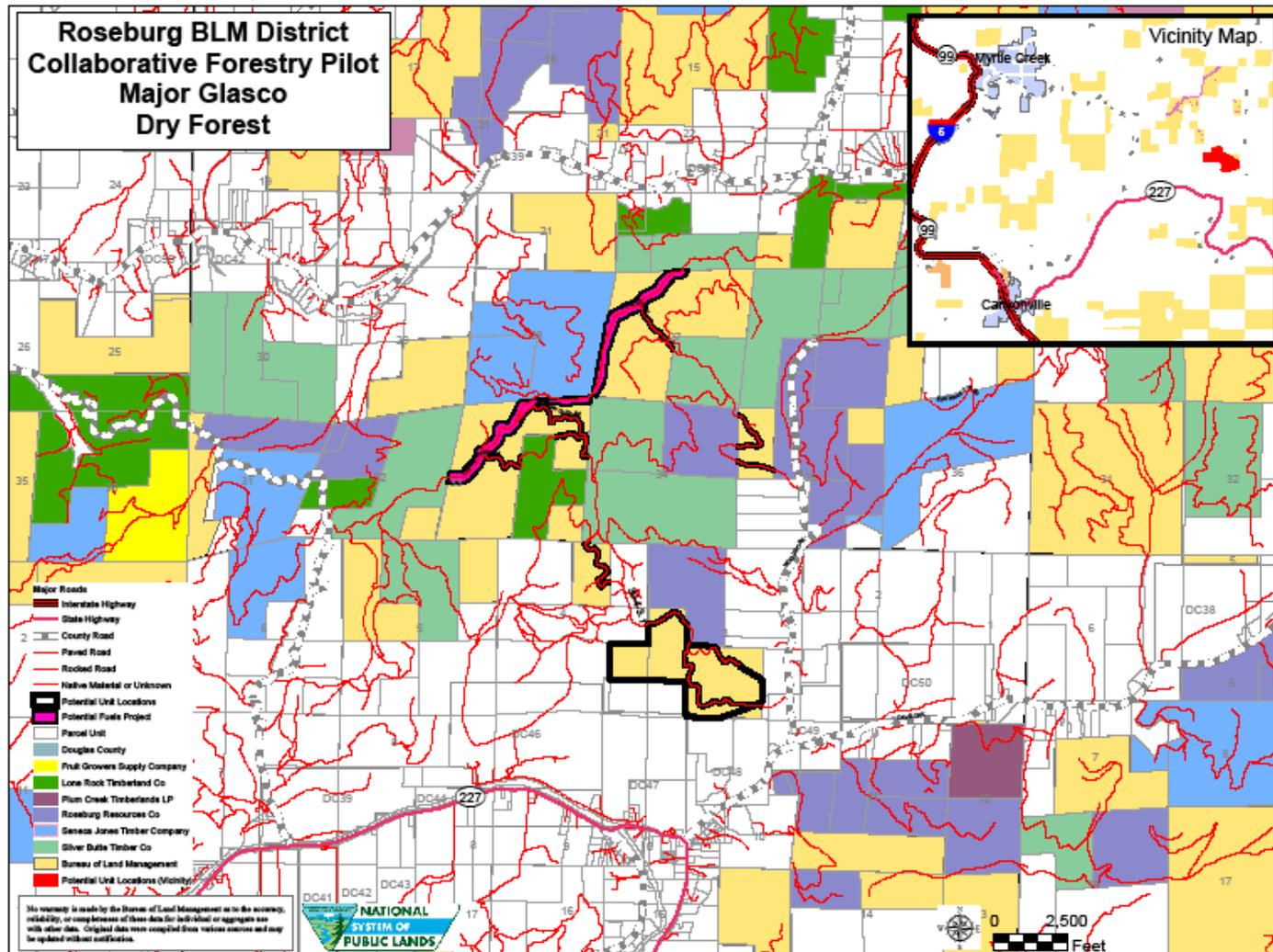
Current Condition (fuel break)

Stand Ages

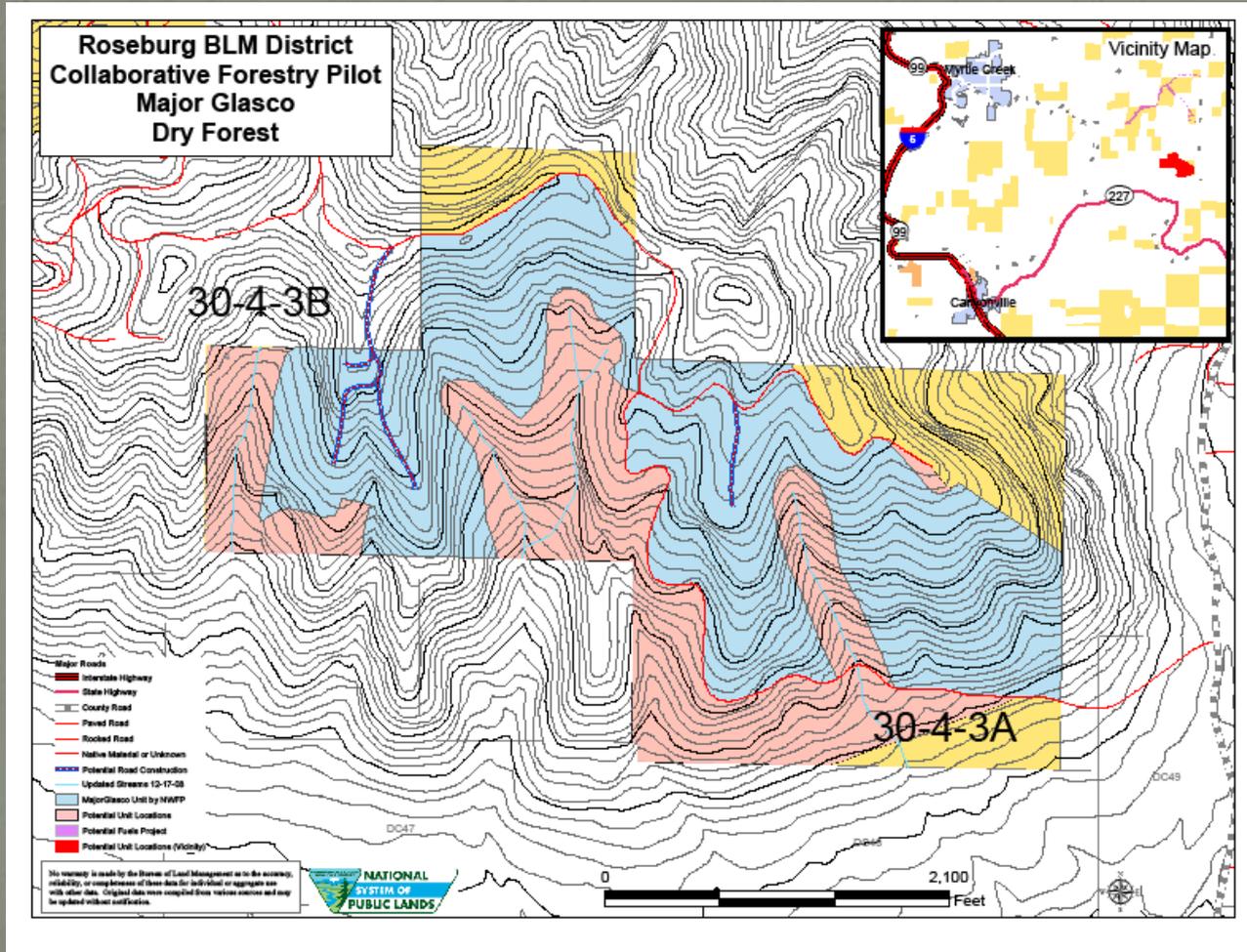


Current Condition (fuel break)

Ownership



Northwest Forest Plan Regeneration Harvest



The End

