

Practice Problem – Section E

PROBLEM STATEMENT:

Evaluate the property for the best location for a hiking trail and a trailhead parking area.

CONTEXT:

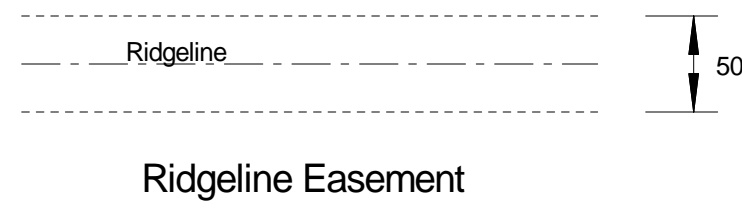
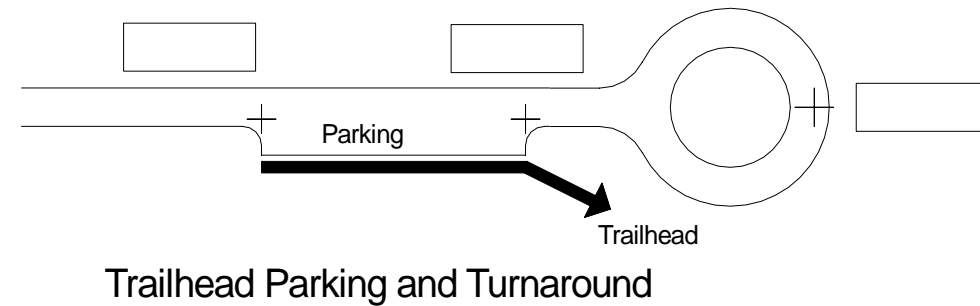
- A Falcon Nesting Area is located on the site. Local bird watchers want to create a parking area and a nature trail to view the falcons within a safe distance without disturbing the nesting area.
- Deer Creek and its tributaries is the source of water for the local community.
- No development shall occur within the Deer Creek watershed.
- Local jurisdictions require that the Deer Creek watershed boundary shall be protected with a 50' ridgeline protection easement. No disturbance shall occur within the easement for protection of the water supply and for the protection of the wildlife habitat corridors.

REQUIRED:

- Provide a 22' wide access road from the existing road connection point to the trailhead parking and turnaround. The maximum slope on the access road shall be 10%.
- Locate the trailhead parking and turnaround to provide access to the trail. The maximum slope on the parking and turnaround shall be 5%.
- Gradients on unpaved surfaces shall be 2% minimum and 3:1 (33%) maximum.
- Runoff from unpaved surfaces is permitted to flow onto paved surfaces.
- Show all required spot elevations to the nearest foot in the boxes provided (spot elevation must be indicated on the solution and not in the box shown under Project Elements).
- Show and label all proposed 10' contours and meet existing contours within the contract limit lines.
- Locate a hiking trail to connect the trailhead parking to the trail overlook (indicate with graphic provided) location 200' from the Falcon Nesting Area. The hiking trail must be located on existing slopes that do not exceed 25% (4:1).
- It is not necessary to indicate contours on the hiking trail.
- Save the existing trees. Do not grade within the dripline of the trees.

PROJECT ELEMENTS

Scale: 1" = 100'



E-1

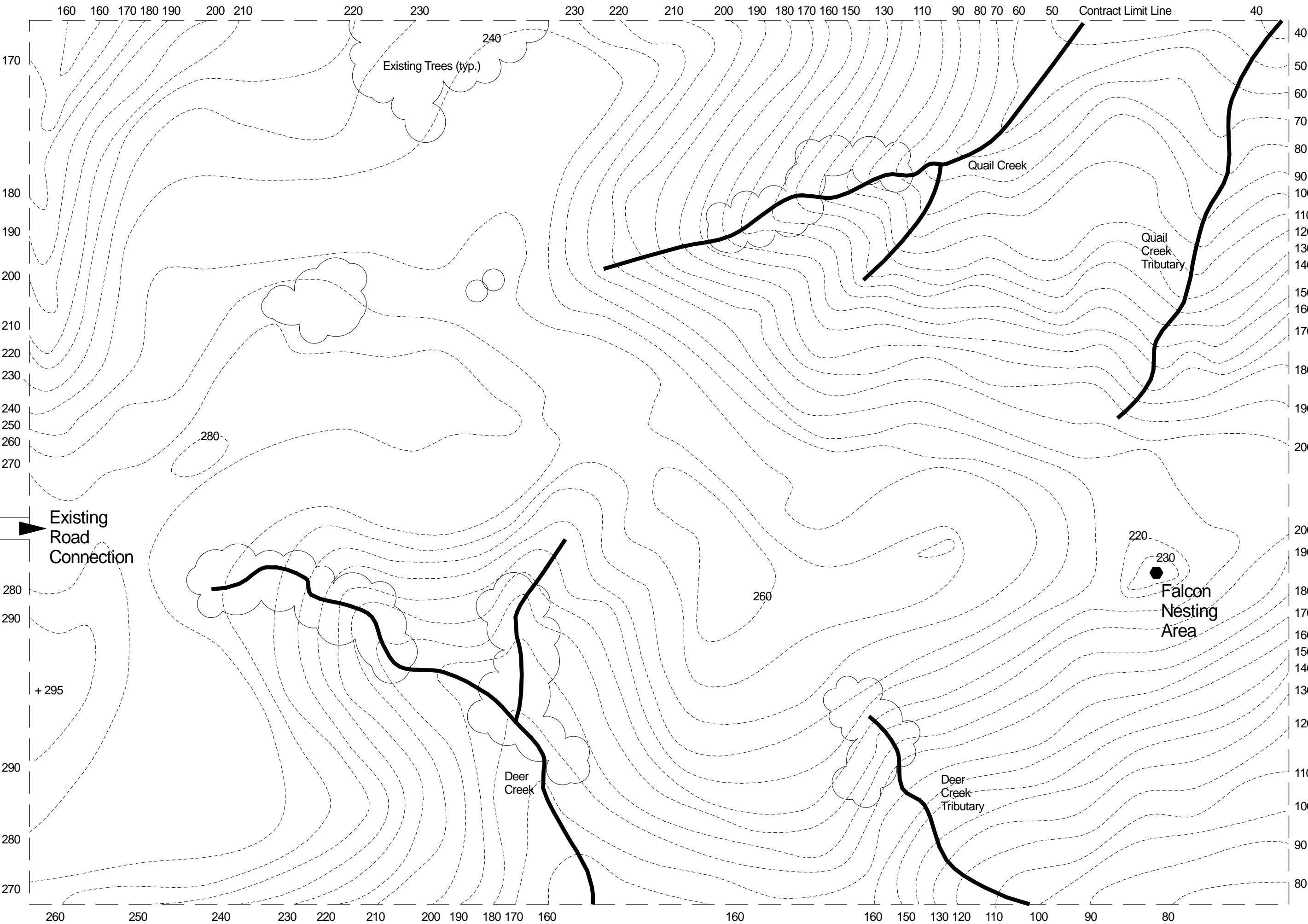
March 2009

Candidate I.D.

Landscape Architect Registration Examination

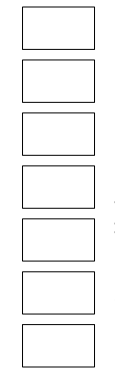
Grading, Drainage and Stormwater Management

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E-1

March 2009

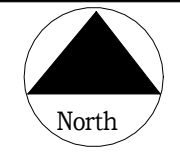


Candidate I.D.

Landscape Architect Registration Examination

Grading, Drainage and Stormwater Management

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North

Scale: 1"=100'