A statement of probable construction cost should be prepared at the end of which of the following phases? Choose 3 that apply.

- site analysis
- site inventory
- schematic design
- design development
- construction documents
- bidding and negotiations
- construction contract administration
The following are **MOST LIKELY** included in an initial design budget. *Choose 4 that apply.*

- [ ] profit
- [ ] staff time
- [ ] direct costs
- [ ] consultant costs
- [ ] construction labor cost
- [ ] additional services cost
- [ ] construction materials cost
Which of the following are essential considerations for the management of a park and ecotourism project with respect to natural resources? Choose 2 that apply.

☐ transportation systems
☐ the fragmentation of habitats
☐ human demands on the ecosystem
☐ the species of plants to be planted around new structures
What are the primary purposes of arterial streets? Choose 2 that apply.

- serve as the link between local streets
- move as much traffic as efficiently as possible
- serve through traffic traveling relatively long distances
- provide easy access to adjacent commercial development
This illustrates a typical natural area. Identify the location that is the most active and sensitive wildlife habitat area. Select the area in the boxes provided.
A warehouse project is planned on a site adjacent to an existing nature center. Which plan minimizes impacts to the nature center and environmental features? Select the plan.
Refer to the exhibit. Prepare a design for a community center complex based on the client's functional relationship diagram. Place elements to respond to on-site and off-site conditions.
FUNCTIONAL RELATIONSHIP DIAGRAM

- Playground and Picnic Area
- Community Center
- Lighted Playing Fields
- Parking
A software company will be constructing a new building for their offices on the site shown below. The new building will be a two-story structure with windows on all sides. Zelkova Avenue is a two-lane collector with wide shoulders. The company has requested a preliminary concept plan to inform more specific design. Where should the site elements be placed? Place the elements in their corresponding boxes.

Bus Stop
Preserve Landscape
Staff Garden
Dense Plantings
Parking Area
Pedestrian Connection
Preserve Views
Identify the most appropriate area on the detention pond to have rip rap installed to prevent scour. Select the area on the plan.
What is the **BEST** location to construct a temporary sediment basin that will capture the greatest amount of runoff from the proposed development areas? **Select the location**.
In what order should these construction activities occur from project initiation to substantial completion? *Place the activities in order.*

<table>
<thead>
<tr>
<th>INSTALL SUBSURFACE UTILITIES</th>
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<tr>
<td>ESTABLISH TURF GRASSES</td>
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<td>INSTALL SEDIMENT AND EROSION CONTROLS</td>
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<td>CONSTRUCT BUILDINGS AND SURFACE TREATMENTS</td>
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<td>CLEAR AND GRUB SITE</td>
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<td>PERFORM MASS EARTHWORK</td>
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Design a 1-unit deep swale from the parking lot to the bioretention pond. Place the appropriate contour(s) on the site plan.
Place the appropriate contours on the site plan to maximize the amount of fill. **Place the contours.**