

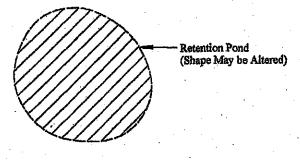
## PROBLEM STATEMENT:

Provide a road connection between the existing West Road and East Road and locate a retention pond to accommodate surface runoff. Provide preliminary grading for the proposed elements.

## REQUIRED:

- 1. Locate a 7.5 m wide road connecting West Road and East Road. Located the road to minimize
- 2. The minimum horizontal centerline curve radius for the road shall be 60 m
- 3. Locate a dam to create a retention pond that has an average depth of at least O. 6 th over a surface area of O. 20 ha.
- 4. Culverts may be used to maintain existing drainage patterns.
- 5. Culvert pipe is 0.3 Midiameter RCP; minimum pipe slope is .5% and minimum required cover is
- 6. Show and label all proposed O. 6 contours including the proposed road and meet existing contours within the page limits.
- 7. Using proposed contours, conceptually indicate a crown and six-inch curbs on the proposed road. Road surface shall be asphalt.
- 8. Gradients on the proposed road shall be 1% minimum and 8% maximum, except at vertical curve high points and low points wher the grade will be zero percent.
- 8. Gradients on unpaved surfaces shall be 2% minimum and 4:1 (25%) maximum.
- 10. Runoff from unpaved surfaces may not flow onto paved surfaces.
- 11. Runoff from the proposed road and unpaved surfaces may flow onto existing roads.
- 12. Minimize the environmental impact and costs of development.

## GRAPHIC CONVENTIONS



Graphic Convention for **Delineating Retention Pond** (Not to Scale)

Graphic Convention for **Delineating Culvert** (Not to Scale)

Glossary Additions to be defined Cut & Fill

- · horizontal curve · dam · retention pard

- culvert

- · road crown
  · vertical curve
  · culvert headwall
  · popographic features

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