

## IOWA DEPARTMENT OF TRANSPORTATION

**TO OFFICE:** Design **DATE:**

**ATTENTION:** Section Engineer **REF. :** County

**FROM:** Soils Design Engineer **Proj. #:**

**OFFICE:** Design **PIN:**

**SUBJECT:** Completed S2 Review

Soils Design has completed S2 work for the above-referenced project, and our results are discussed and presented within this memorandum. The proposed project is on [project number and location, and the general project concept]. The total project length is [miles or kilometers]. [Addition comments, understanding, etc].

### **STABILITIES**

A review of the cross section, and the soils and testing results from the Soils Survey along the alignment determined that there (are some or are not any) stability concerns that would require additional Right of Way.

[If there are stability concerns that would require additional Right of Way, list them].

[If there are not any stability concerns, then state that “However, if anything does present itself, Soils Design will design whatever stability remediation is necessary to eliminate the need for additional ROW purchase.”]. [Addition comments, etc].

### **BORROWS**

It is Soils Design’s understanding that this project is approximately (number) miles and has an approximate borrow need of (number) CY, based on information provided, by the Design Section, on (Date: Month, Day, and Year). If this is in error or has subsequently changed, we request notification as soon as possible.

Soils Design proposes (number) borrows to satisfy the borrow need. Selection of these borrows was based on minimizing the number of borrows, balancing borrows and haul distances (based on the most current Mass Diagram, if it was provided), and taking advantage of probable or known landlocked areas and/or irregular shaped parcels due to alignment truncation and other features such as drainage ditches, etc. [If applicable: The S2 borrows coincide with the previously identified S1 potential borrow sites].

List each borrow

1. Borrow (Number) is located on the (North, South, East, West) side of the alignment, between (Stationing and/or other boundaries, etc), and (left or right) (number) feet. Borrow (Number) is proposed as a (pond or drainable) borrow. The size (acres) of the proposed ROW acquisition area.

[Describe availability, from the borrows along the project (Select and Class 10) and any additional comments such estimated quantities from each borrow sites, etc].

The S2 sites, general outlines, and conceptual designs can be found in the Project Directory at W:\Projects\ ..... \Soils\ as a Microstation file called (...\_S2.sol). Other items included in the electronic files with this submittal are ..... [those that are commonly included are for example – a KML file of the borrows and aerial photos (PDF or JPEGs) of the borrows. The location for these files should be the S2 Submittal folder, W:\Projects\ ..... \Soils\ S2Submittal].

### **OTHER ITEMS**

[Any additional comments pertaining to the project that is soils related, discoveries found while drilling, etc].

Soils Design requests that Photogrammetry review the need for any additional survey of the S2 borrow sites. Soils Design also requests feedback from the Office of Location and Environment concerning; archeological, cultural, wetland, or environmental conflicts, and feedback from the Office of Right Of Way.

You may indicate your acceptance or request additional information by e-mail.

XXX:xx:xx      XXX initial of the Soil Design Eng, {xx your initials}  
[memo is to be submitted to the Office Secretary (xx initials)  
for proofing before distribution]

Attach. (attachments, if any)

cc: Design Director      Asst Design Director      Asst Design Director  
District Engineer      Asst. District Eng.      District Construction Eng.  
Construction Office Engr.      OLE Director      Wetlands Team Leader  
Cultural/Historic Resource Team Leader and Asst.      ROW Director  
ROW Acquisition Leader      ROW Agent(s)      Photogrammetry Supervisor  
Survey Supervisor      Road Side Development Supervisor  
Design Section Asst Engr.      Design Section Tech      Asst Soils Design Eng.  
Soils Design Geologists