

## Exercise 15-1

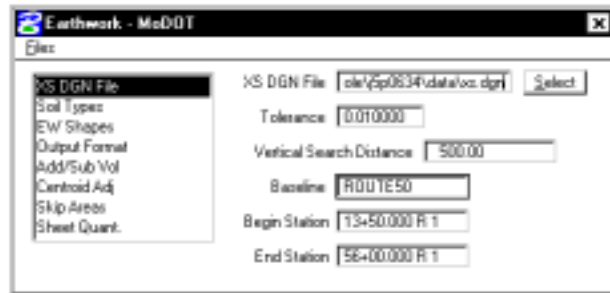
1. Open the Microstation file **t:\de-proj\cole\j5p0634\data\xs.dgn**.

2. Choose **Earthwork** from the **Project Manager** dialog.

Copy the **MoDOT** run, and select the newly created run.

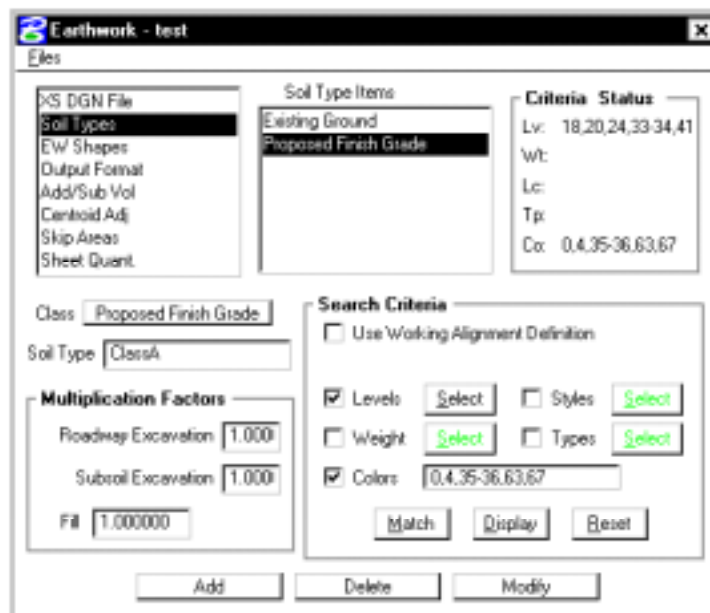
3. Be sure the following items are set in the **XS DGN File** section of the dialog:

XS DGN File	xs.dgn
Baseline	Route50



4. In the **Soil Types** section of the dialog, create the following classifications and soil types with the given parameters:

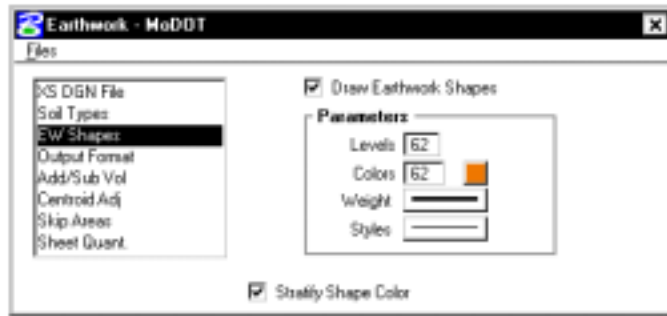
<u>Class</u>	<u>Soil Type</u>	<u>Search Criteria</u>
Existing Ground	ClassA	Level = 57 Color = 90
Proposed Finish Grade	ClassA	Level = 18, 20, 24, 33, 34, 41 Color = 0, 4, 35 - 37, 63, 67



# Exercise 15-1 Earthwork

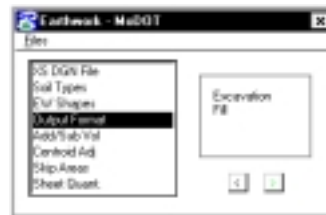
5. Toggle on **Draw Earthwork Shapes** and **Stratify Shape Color** in the **EW Shapes** section. Set the following **EW Shapes** parameters:

Levels           62  
 Colors           62  
 Weight           4  
 Styles           0 (Solid Line)



6. Change the **Output Format** to:

Excavation  
 Fill

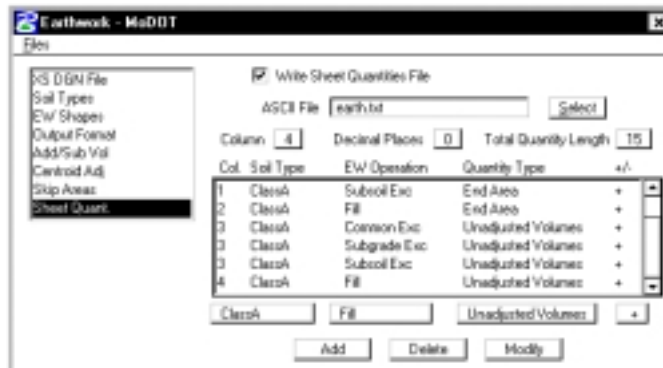


7. In the **Sheet Quant.** Section, toggle on the **Write Sheet Quantities File**.

Name the file earth.txt

Add the following columns to the file with **Decimal Places** = 0 and **Total Quantity Length** = 15:

Col.	Soil Type	EW Operation	Quantity Type	+/-
1	ClassA	Common Exec	Endarea	+
1	ClassA	Subgrade Exec	Endarea	+
1	ClassA	Subsoil Exec	Endarea	+
2	ClassA	Fill	Endarea	+
3	ClassA	Common Exec	Unadjusted Volumes	+
3	ClassA	Subgrade Exec	Unadjusted Volumes	+
3	ClassA	Subsoil Exec	Unadjusted Volumes	+
4	ClassA	Fill	Unadjusted Volumes	+



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8. Save the settings for the dialog.

9. Run the proposed cross-sections.

Choose the to create a **Log File** called **earth.log**.

