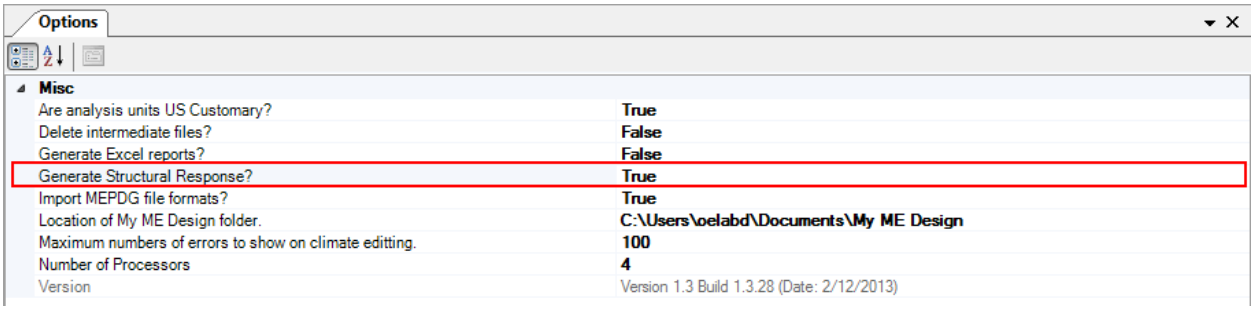
USING THE STRUCTURAL RESPONSE TOOL

The ME Design program creates intermediate files from where users can access structural responses used to compute pavement distresses. To obtain structural responses set the *IsGenerateStructuralResponse* to True in *Tools/Options* menu in the Explorer Window.



After running analysis the following files intermediate files will be created in the project folder.

Asphalt and Asphalt Overlays

For any analysis with an asphalt surface, the following files are created.

_VertStrain.txt
_TensStrain.txt

JPCP and JPCP Overlays Pavements:

For any analysis with a jointed plain concrete surface, the following files are created.

_StressBot.csv
_StressTop.csv

Note: Structural Response Tool for CRCP is not complete yet.

A complete list of structural response output files for seventeen different pavement types are shown in Table 1.

Table 1: Structural Response Output Files

Project Type	Structural Response Output Files
New JPCP	_StressBot.csv, _StressTop.csv
New CRCP	*To be released*
New HMA	_VertStrain.txt, _TensStrain.txt
Unbonded JPCP over JPCP	_StressBot.csv, _StressTop.csv
Bonded JPCP over JPCP	_StressBot.csv, _StressTop.csv
Unbonded JPCP over CRCP	_StressBot.csv, _StressTop.csv
Unbonded CRCP over JPCP	*To be released*
Unbonded CRCP over CRCP	*To be released*
Bonded PCC over CRCP	*To be released*
JPCP over AC	_StressBot.csv, _StressTop.csv
CRCP over AC	*To be released*
JPCP Restoration	_StressBot.csv, _StressTop.csv
AC over AC	_VertStrain.txt, _TensStrain.txt
AC over JPCP	_VertStrain.txt, _TensStrain.txt
AC over CRCP	_VertStrain.txt, _TensStrain.txt
AC over fractured JPCP	_VertStrain.txt, _TensStrain.txt
AC over fractured CRCP	_VertStrain.txt, _TensStrain.txt