Landform Design Report   10/4/2014 14:45:2

Client\Farm\Field: \\
File:E:\Work Files\Dropbox\Optisurface\OptiSurfaceClients\KampenMaarten\Demo\DemoV02.osd
Notes:

Design Inputs

Surface Type:	OptiSurface 4Way
Main Slope Direction(deg):	157.0000 (Bearing From North)
Calculation Grid Spacing(m):	5.000
Fill To Import to Field(m3):	0
Cut To Export from Field(m3):	0.000
Cut/Fill Ratio:	1.200

	Main Slope			Cross Slope			Maximum Allowable Cut(m)	Min. Elevation (m)
Zone	Minimum (%)	Maximum (%)	Max. Change (m/%)	Minimum (%)	Maximum (%)	Max. Change (m/%)		
Demo01	0.050	-	100.000	-	-	-	-	-

Design Results

Design Summary
Field Area (ha): 21.0
Cut Volume (m^3)*: 3090
Fill Volume (m^3)*: 2620
Cut Per Area (m^3/ha): **147**

Import Vol. (m^3) : 0
Export Vol. (m^3) : 0
Cut\Fill Ratio**: 1.18

Max. Cut (m): 0.128
Max. Fill (m): 0.170

Slope(%)   Min.   Max.
Main S.:   -0.509   0.552
Cross S.: -0.494   0.459
Max. Slope Change (%/m)
Main S.:   0.03094 ***
Cross S.:   0.03087 ***

Cut\Fill Table

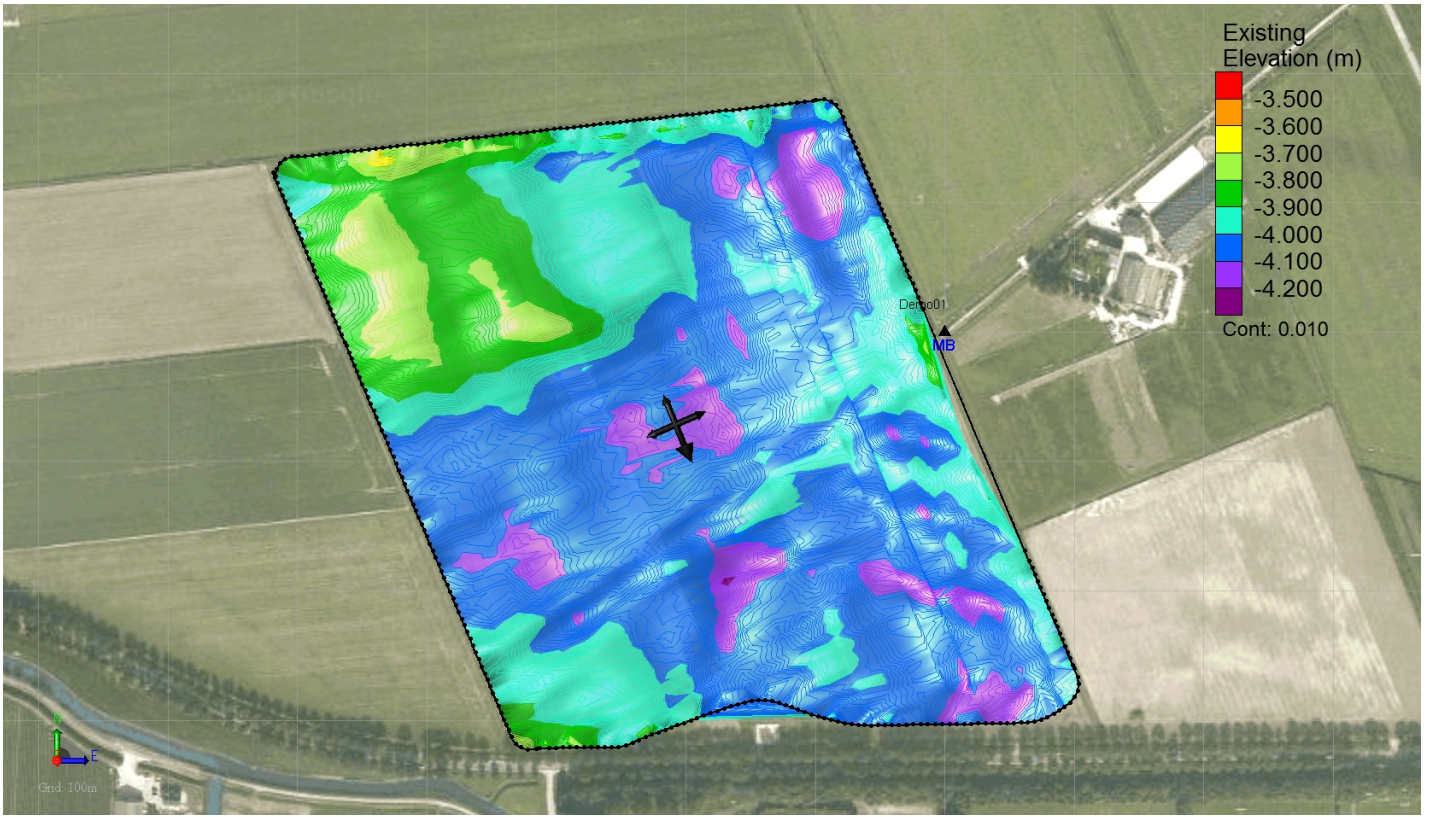| -Cut+Fill (m)	Area (ha)	Vol^ (m^3)
Less -0.30	0.0	0
-0.30 to -0.25	0.0	0
-0.25 to -0.20	0.0	0
-0.20 to -0.15	0.0	0
-0.15 to -0.10	0.1	-86
-0.10 to -0.05	1.6	-1079
-0.05 to 0.00	10.5	-1984
0.00 to 0.05	7.0	1180
0.05 to 0.10	1.5	1047
0.10 to 0.15	0.4	413
0.15 to 0.20	0.0	36
0.20 to 0.25	0.0	0
0.25 to 0.30	0.0	0
More 0.30	0.0	0

Notes:
* Earthworks volumes based on the 4 Point Method applied to the calculation grid of 5.000 m.
** Cut\Fill Ratio maybe slightly different to design input due to calculation methodology, 2 percent tolerance and any export volume.
*** The maximum slope change maybe larger than specified particularly in OptiSurface2D and OptiSurface4D designs at locations where the slopes switch over a crest or trough. At these locations, the maximum slope change is set to be at least 2 x the minimum slope to allow a solution to be calculated.
^ Cut/Fill Table Volume is based on single point method and slighlty less accurate than 4 Point Method used for Earthworks volumes given at top of summary.
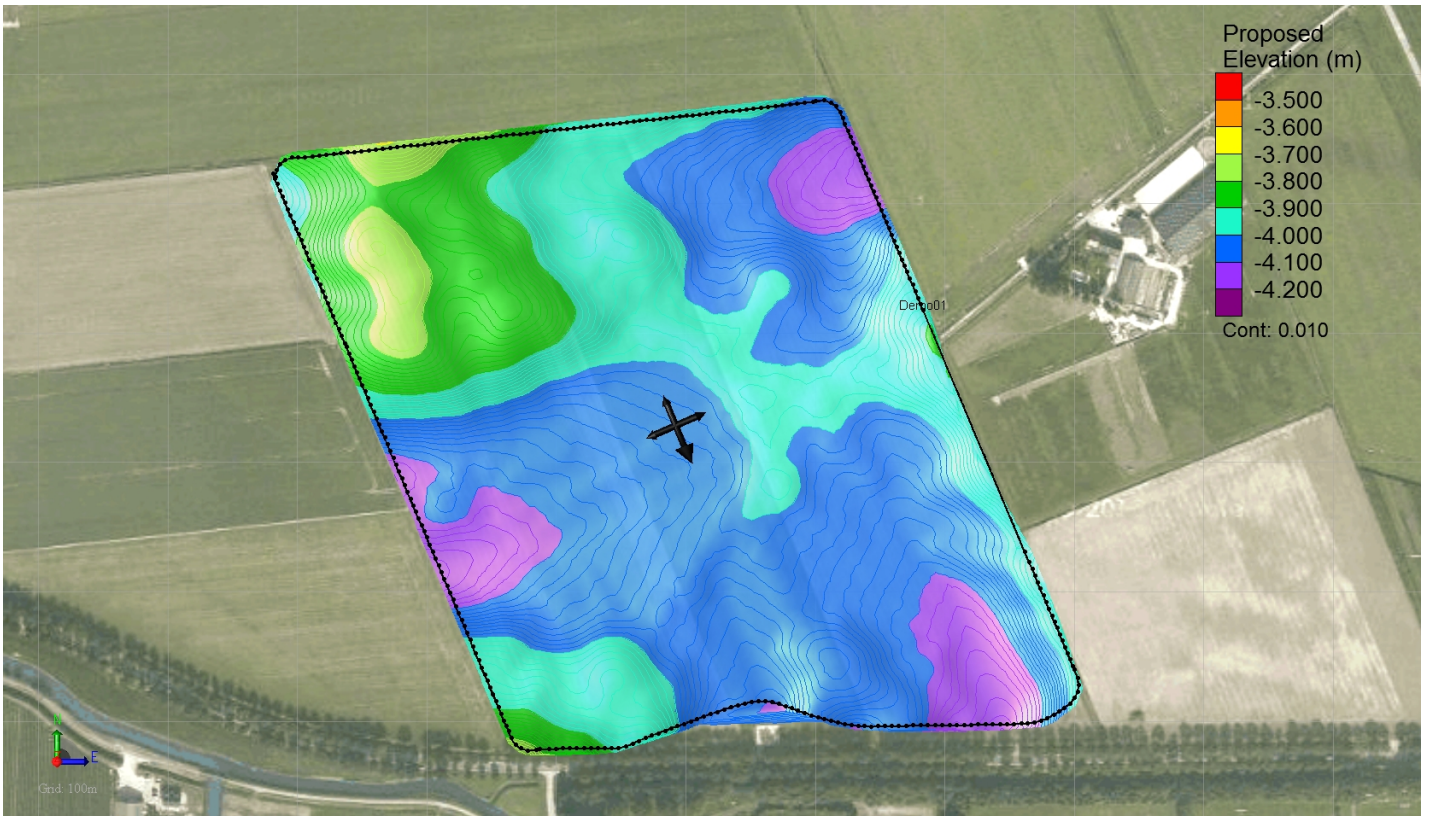
Benchmark Results

	Easting (m)	Northing (m)	BM EL (m)	Prop. EL (m)	-Cut\+Fill (m)
Benchmark					
MB	0.0	0.0	-3.240	-	-

"OptiSurface by DAVCO - The Next Generation In Agricultural Landforming"   www.optisurface.com

To view these maps in Google Earth, open the kml file found in the same folder as this html file.

Map 1 - Existing Topography
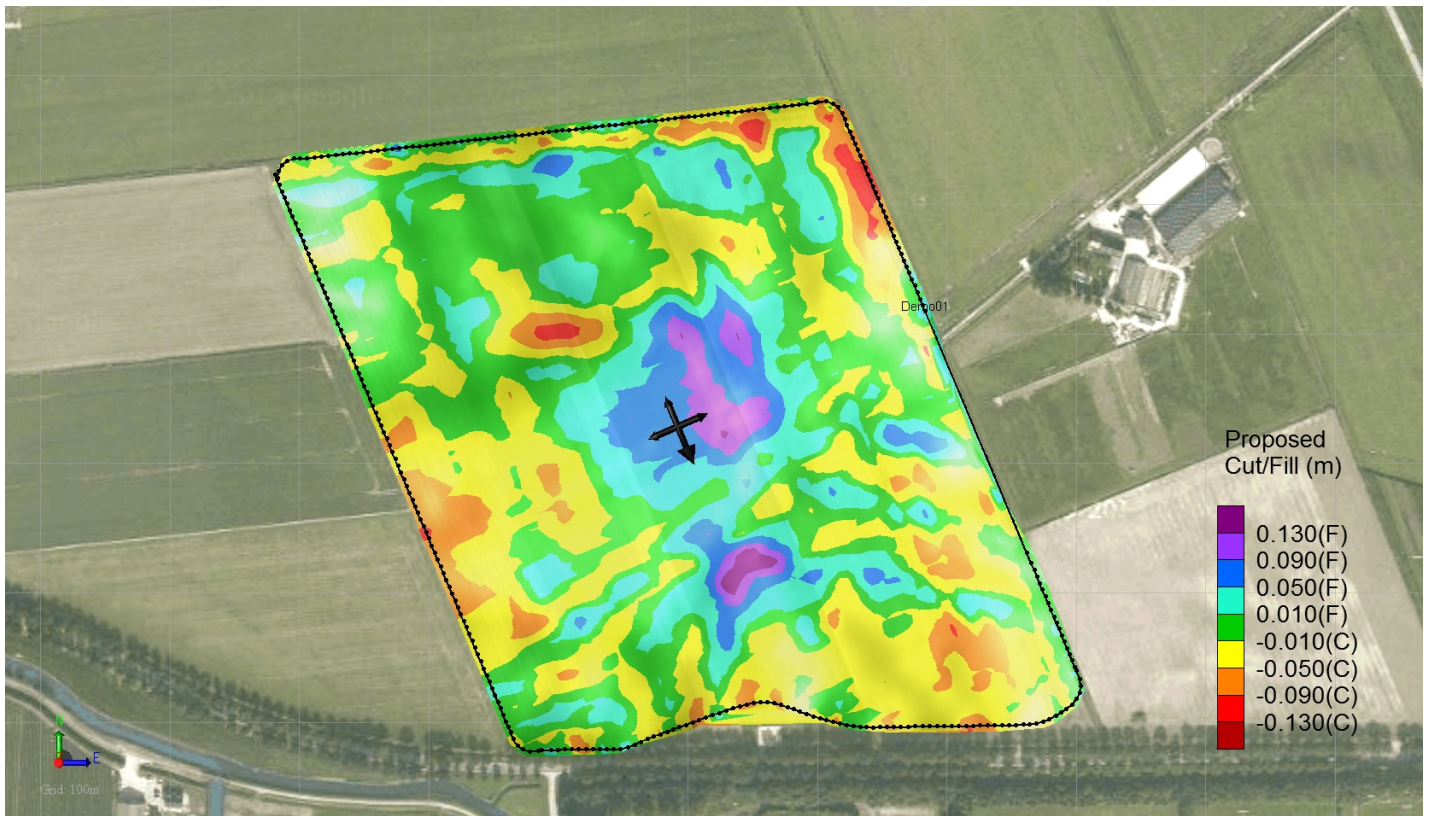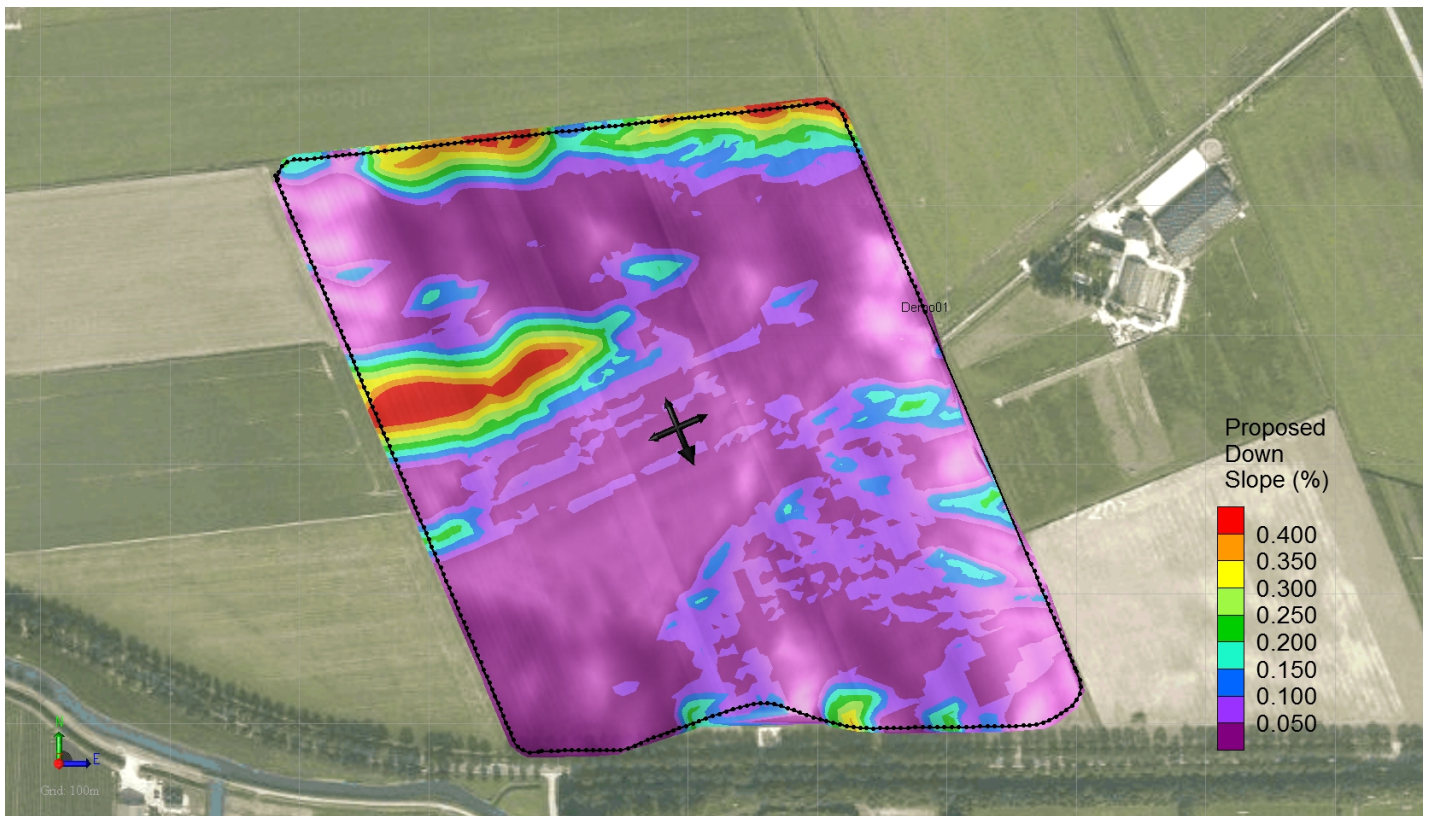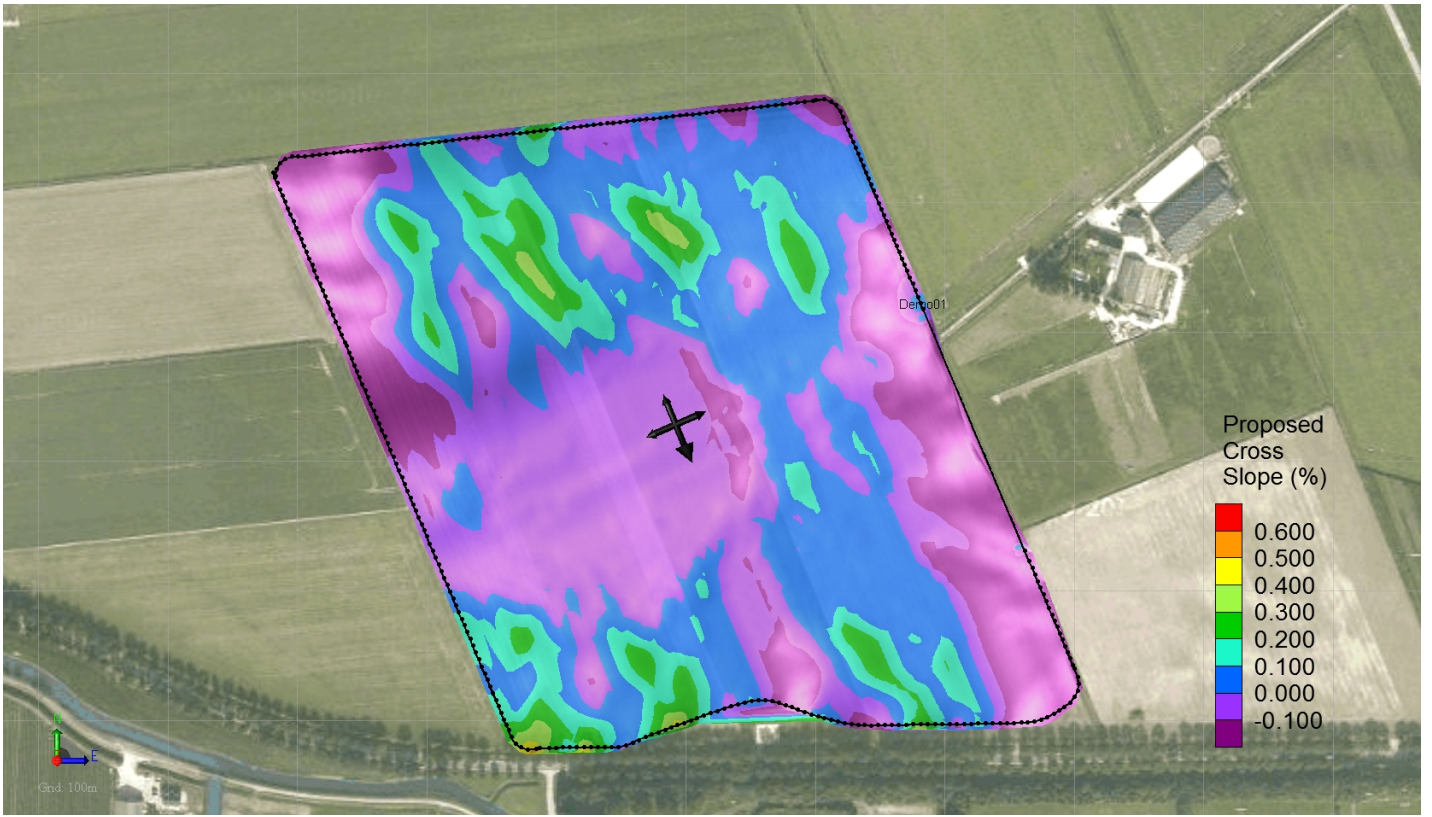

Map 2 - Proposed Topography

Proposed
Cut/Fill (m)

0.130(F)
0.090(F)
0.050(F)
0.010(F)
-0.010(C)
-0.050(C)
-0.090(C)
-0.130(C)

Map 3 - CutFill

Proposed
Down
Slope (%)

0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050

Map 4 - Down Slope (Slope In Direction Of Defined Main Slope)

Map 5 - Cross Slope (Slope Perpendicular To Direction Of Defined Main Slope)