15_25 Undercut on the Cross Section X-1A Sheet

Question:

I have a lot of undercut on my project. Is there a way I can automate the process of placing the undercut on the excel Earthwork XSC Volume Summary Sheet? It currently only allows us to place Uncl. Exc. And Embt.

Answer:

That is correct our current excel file is not setup that way; however, we do have a work around. You can manipulate your earthwork log file by changing the word undercut to unsuitable under soil type in your log file. This will automate the process for placing your undercut on your excel Earthwork XSC Volume Summary Sheet. See the change below.

```
Earthwork

tolerance = 0.01

xs dgn = ead_r3403abl_xsc.dgn

Proposed Finish Grade
    soil type = suitable
    fill mult factor = 1.00
        type = line, line_string
        lvname = Prop XS Finish Grade Earthwork
        lvname = Prop XS Subgrade Earthwork

Existing Ground Line                    Change to
    soil type = suitable                unsuitable
        type = line, line_string
        lvname = Exist XS Ground Line

Existing Unsuitable Material
    soil type = undercut
    fill mult factor = 1.00
        type = line, line_string
        lvname = Prop XS Earthwork Undercut

Excavation limits
```

```
Earthwork

tolerance = 0.01

xs dgn = ead_r3403abl_xsc.dgn

Proposed Finish Grade
    soil type = suitable
    fill mult factor = 1.00
        type = line, line_string
        lvname = Prop XS Finish Grade Earthwork
        lvname = Prop XS Subgrade Earthwork

Existing Ground Line
    soil type = suitable
        type = line, line_string
        lvname = Exist XS Ground Line

Existing Unsuitable Material
    soil type = unsuitable
    fill mult factor = 1.00
        type = line, line_string
        lvname = Prop XS Earthwork Undercut

Excavation limits
```

Station	Uncl. Exc.	Embt	Station		Station	Uncl. Exc.	Embt	UnderCut	Station
L	(cu. yd.)	(cu. yd.)	L		L	(cu. yd.)	(cu. yd.)	(cu. yd.)	L
51+00.00	0	0	77+50.00		51+00.00	0	0	0	77+50.00
51+50.00	20	1	78+00.00		51+50.00	20	1	0	78+00.00
52+00.00	26	53	78+50.00		52+00.00	26	53	0	78+50.00
52+50.00	42	272	79+00.00		52+50.00	42	272	123	79+00.00
53+00.00	45	423	79+50.00		53+00.00	45	423	232	79+50.00
53+50.00	51	397	80+00.00		53+50.00	51	397	303	80+00.00
54+00.00	36	362	80+50.00		54+00.00	36	362	362	80+50.00