

Chapter 3 – Set Out

Introduction

The Set Out routine will allow you to stake out an elevation with ease.

Program notes

To use the Set Out function you must be in a measure screen, for example, the line levelling program or in Measure & Record mode. Calculations of the set out points are always referenced to the last backsight. This example will use the BF method in the Line Levelling program.

Step	Action	Display
1	<p>Refer to <i>Chapter 1 – Line Levelling</i> on how to start the Line Levelling program.</p> <p>You must measure a backsight before being able to start the SET OUT function.</p>	<pre> PROGRAMS ----- 1 MEASURE ONLY 2 LINE LEVELLING 3 CHECK & ADJUST <QUIT> </pre>
2	<p>In the "LINE LEV" screen:</p> <ul style="list-style-type: none"> Measure to your backsight. <p>This advances you to take a foresight shot or to be able to SET OUT.</p>	<pre> LINE LEV BF BF ↑ ----- PtID: BM145 EC Rem : ██████████ DBal: 0.00 m DTot: 0.00 m <QUIT> </pre>

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Set Out, Continued

Step	Action	Display
3	<p>Continuing in the "LINE LEV" screen:</p> <ul style="list-style-type: none"> Press the SHIFT and INT buttons to start the SET OUT function. Enter the point ID to set out. Enter the elevation to set out. Highlight <CONT> and press the ENTER button. <p>This takes you to the "SET OUT H" screen.</p>	<pre> SET OUT POINT ----- PtID: 1001 0 Rem : ----- EC SO H: 14.0300 m SOdH: ----- m SO D: ----- m <EXIT> <CONT> </pre>
4	<p>In the "SET OUT H" screen:</p> <ul style="list-style-type: none"> Take a measurement to your set out point. <p>The display will show the set out elevation, the measured elevation and the amount of cut or fill necessary for the correct elevation.</p> <ul style="list-style-type: none"> Press the SHIFT and DOWN ARROW buttons to view the second page of the "SET OUT H" screen. 	<pre> ----- SET OUT H ----- 1/2 PtBS: BM145 0 PtID: 1001 0 Rem : ----- EC SO H: 14.0300 m H : 14.7530 m Cut : -0.7230 m <EXIT> <REC> <NEXT> </pre>
5	<p>Continuing in the "SET OUT H" screen:</p> <p>You have three options, <EXIT> the set out routine, <REC> your measurement, or continue to the <NEXT> set out point.</p>	<pre> ----- SET OUT H ----- 2/2 PtID: 1001 0 SOu: 1.6000 m EC Dist: 52.60 m <EXIT> <REC> <NEXT> </pre>