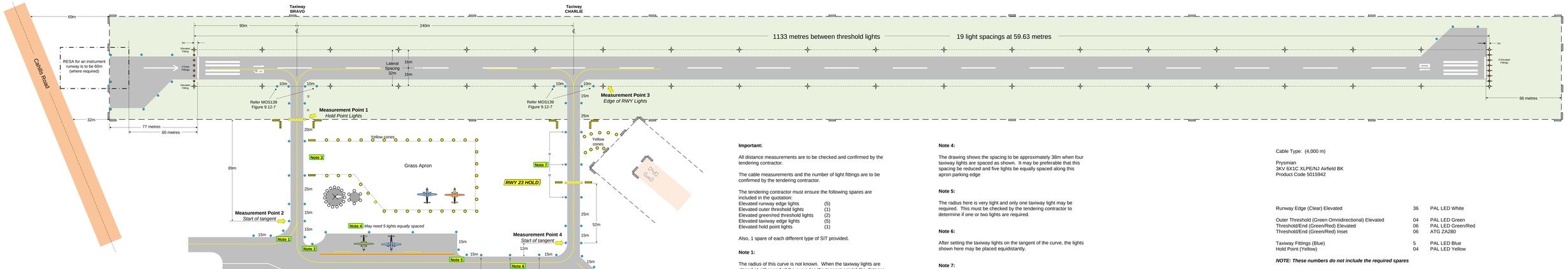


Measurement Point 1 *Holding Point Lights:*

The measurement point for laying out the light spacing on the taxiway is at the HOLD POINT and 45m from the runway center line.

From this point measure in either direction. The taxiway lights closest to the runway must be placed 16m from the runway center line, and the light fitting between the line of the runway edge lights and the hold point lights must be equidistant.

The taxiway lights at the entrance to the grass apron should be aligned with the yellow gable markers. Refer also Note 3.

Measurement Point 2 *Start of tangent:*

This measurement point is 89m from the HOLD POINT which is 45m from the runway center line. Begin at this point and measure out in both directions. Refer Note 1 and Note 2.

Measurement Point 3 *Edge of RWY Lights:*

This measurement point is 16m from the runway center line. Measure out 15m and 25m for the first two spacings back toward the HOLD POINT marking.

Measurement Point 4 *Start of tangent:*

The start of the tangent is 12m from the taxiway edge. From this point measure towards the taxiway HOLD POINT marking 15m and 25m as shown.

There will be a distance of approximately 57m between the marked lights. Refer also Note 7.

Important:

All distance measurements are to be checked and confirmed by the tendering contractor.

The cable measurements and the number of light fittings are to be confirmed by the tendering contractor.

The tendering contractor must ensure the following spares are included in the quotation:

Elevated runway edge lights	(5)
Elevated outer threshold lights	(1)
Elevated green/red threshold lights	(2)
Elevated taxiway edge lights	(5)
Elevated hold point lights	(1)

Also, 1 spare of each different type of SIT provided.

Note 1:

The radius of this curve is not known. When the taxiway lights are placed at either end of the curve (on the tangent points) the distance between them must be measured. If this distance is greater than 15m, then another fitting may be placed centrally between them.

Note 2:

The light shown at the bottom of this curve may not be necessary. This measurement should be checked by the tendering contractor to determine if there is a need.

Note 3:

The distance between the yellow gables marking the entrance to the grass taxiway is approximately 29m. A taxiway fitting may be placed in line with the gable markers. The measurements shown on the drawing must be checked.

Note 4:

The drawing shows the spacing to be approximately 38m when four taxiway lights are spaced as shown. It may be preferable that this spacing be reduced and five lights be equally spaced along this apron parking edge

Note 5:

The radius here is very tight and only one taxiway light may be required. This must be checked by the tendering contractor to determine if one or two lights are required.

Note 6:

After setting the taxiway lights on the tangent of the curve, the lights shown here may be placed equidistantly.

Note 7:

Refer Measurement Point 3 and Measurement Point 4. Where the measured lights finish, a center light may be positioned equidistantly between them

Note 8:

The airfield lighting cubicle is located here. The series cable is to be replaced, and installed in pit and duct. The Moira Shire are replacing the existing lights with LED type with an operating voltage between 150 – 300 volts AC. The preferred cable type is 3kV, not 5kV.

The pits must be suitably rated for aircraft wheel loading so as to prevent incident or accident due to an aircraft wheel passing over them. The lids must not rise up if the pits were to fill with water. The lids must be easily removable by the use of proper tool(s).

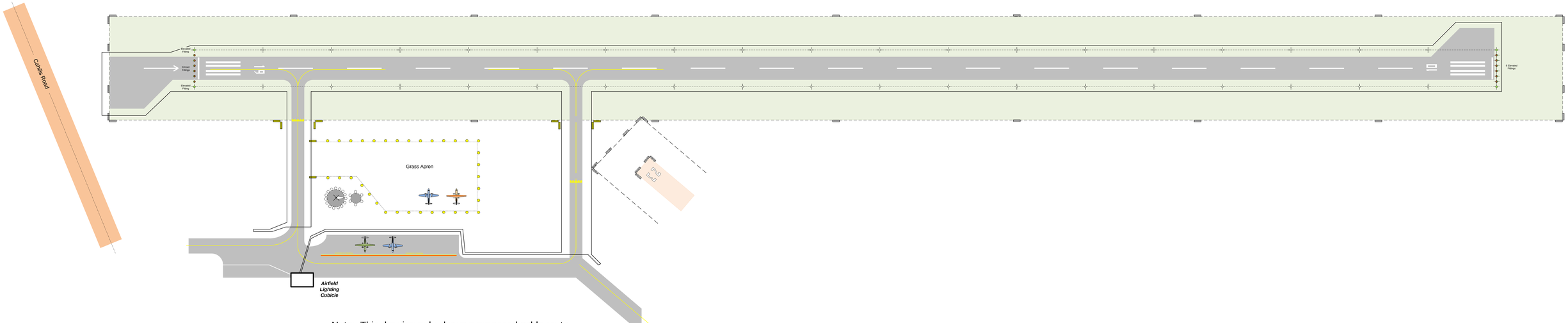
The cable, pits and underground 32mm conduit are to be installed according to the latest copy of the Wiring Rules, and the required electrical safety certificate supplied to the Moira Shire at completion of the work.

Cable Type: (4,000 m)

Prysmian
3KV 6X1C XLPE/NJ Airfield BK
Product Code 5015942

Runway Edge (Clear) Elevated	36	PAL LED White
Outer Threshold (Green Omnidirectional) Elevated	04	PAL LED Green
Threshold/End (Green/Red) Elevated	06	PAL LED Green/Red
Threshold/End (Green/Red) Inset	06	ATG ZA280
Taxiway Fittings (Blue)	5	PAL LED Blue
Hold Point (Yellow)	04	PAL LED Yellow

NOTE: These numbers do not include the required spares



Note: This drawing only shows a proposed cable route.