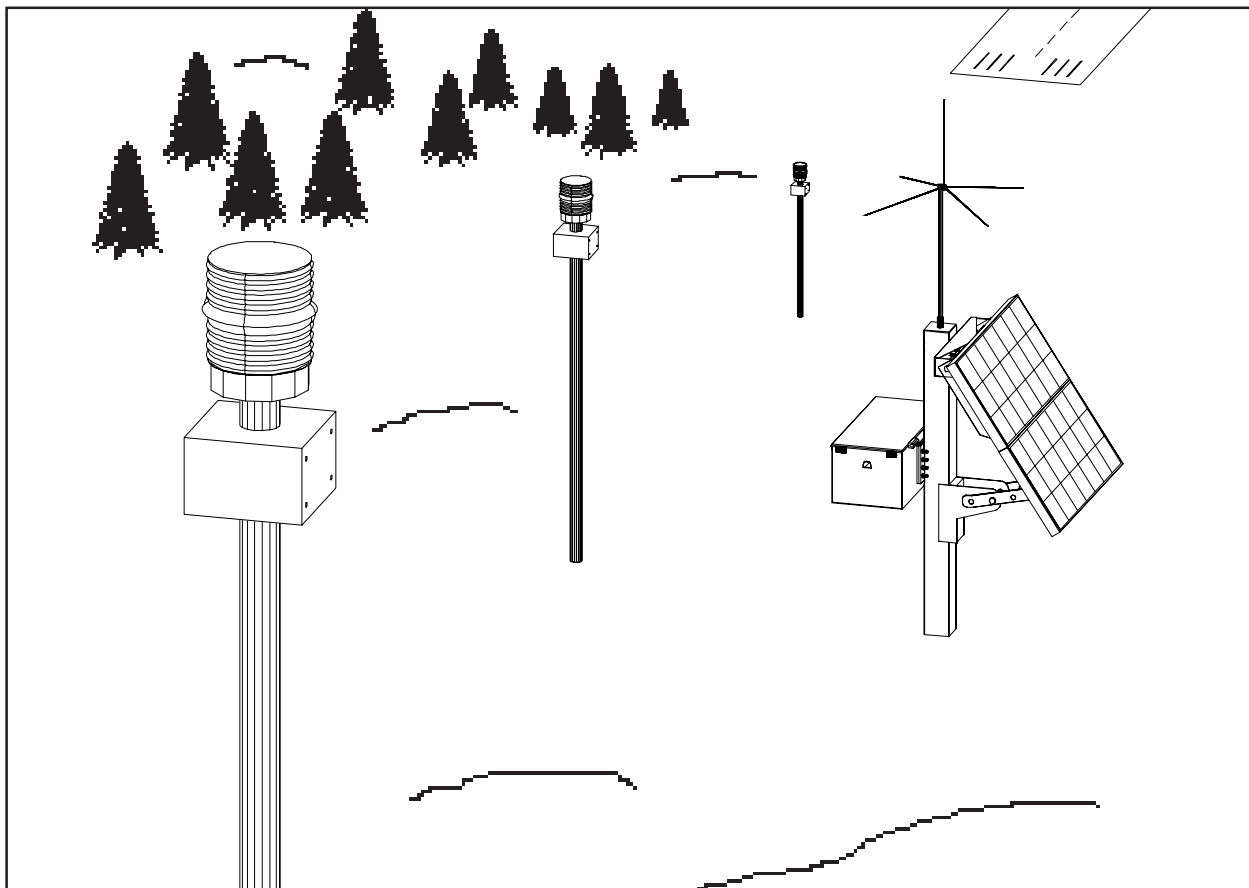


# OMNI - DIRECTIONAL

Solar Powered/Radio Controlled  
Sequence Flashing  
Approach Light System  
BSL-RS1S



The **Reginald Bennett International Inc.** BSL-RS1S consists of three omni-directional strobe light sequenced flashing system. The flasher heads are placed at 60m (200') intervals on centre line from the mostly used approach end. The control cabinet enclosure containing the radio control unit, batteries and regulator is post mounted with the P.V. Array and antenna, placed at right a angle off centre line, from the centre strobe light unit.

The BSL-RS1S is solar powered and VHF remote controlled with an actuation and visibility range of twelve (12) nautical miles. With its own self regulated charging network the BSL-RS1S can be left idle for days, weeks or months on stand-by, keeping the system fully charged and ready for use when called upon.

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# AST-24S STROBE LIGHT

## Approach System Characteristics

- Over 40 continuous hours of operation without recharge
- Self Regulating Recharging Network
- No low voltage cut out
- Virtually maintenance free

## Environmental Operating Conditions

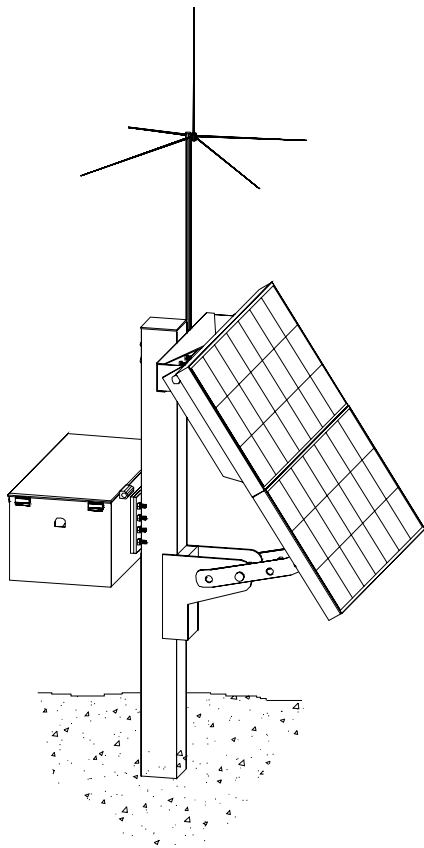
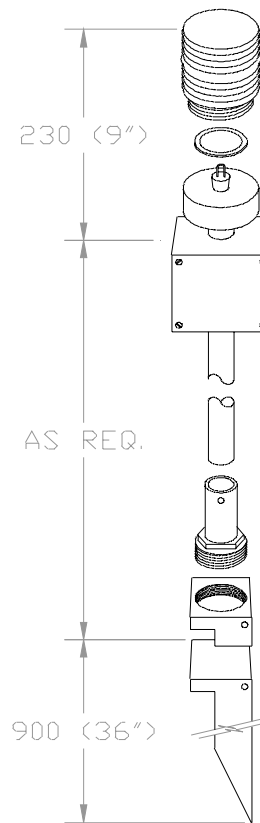
- Temperature: +55°C to -55°C
- Humidity: up to 100% exposure to rain, snow and sand
- Winds: up to and including 200 kph (125 mph)

## Power Criteria/Features

- System Configuration 2 - slaves, 1 - master
- Separation 60m (200') min.
- Fresnal Lens - Clear (other colours are available)
- Omni-directional
- Base Housing - P.V.C.
- Sequence or Simultaneous Flashing

## Power Criteria

- Input: 8 VDC to 30 VDC
- System actual load 1.95 amp.
- Light Output: 2.8 million Candle power (peak) ea.
- Flash rate: 60 flashes per minute approx.
- Zenon Flash tube: 10 million flashes approx.



# CONTROL CABINET/SOLAR/ RADIO CONTROLLED

## Power Criteria/Features

### Control Cabinet Assembly

- Stainless Steel
- Nema 4 - Weather Proof - Lockable
- Vented

### VHF Radio Receiver

- Input 24 VDC
- Load 160 ma
- 3 step relay - 15 minute timer
- Aviation band 118.000 to 135.975 mhz
- Range up to 50 NM

### Batteries

- 2 @ 60 AH - 12.0 VDC
- GEL or Lead Acid - completely sealed - deep cycle

### Voltage Regulator

- 24 Volt - up to 8 amp load
- No RFI

### Solar Panel

- 2 @ 60 W - 12 VDC
- Current output 3.5 amp

### Control Panel

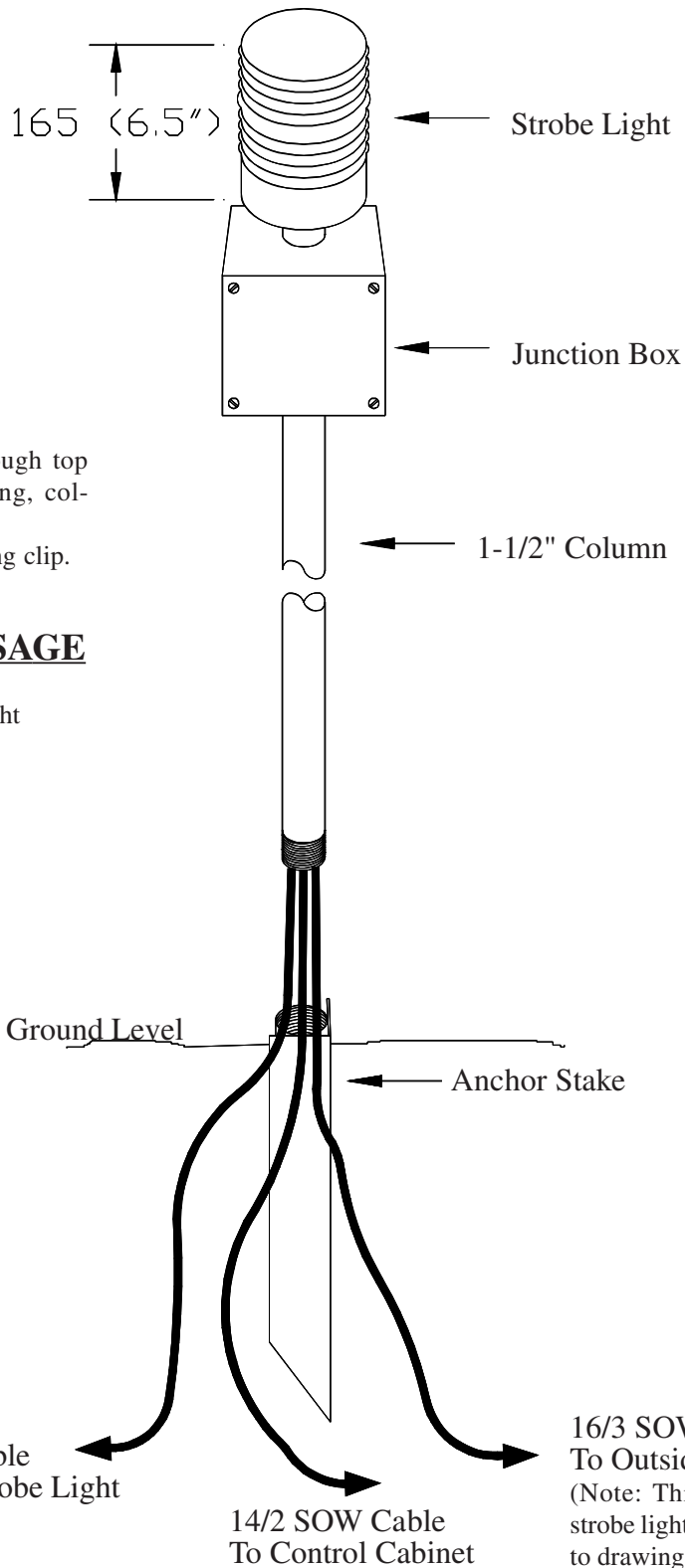
- 3 position: MANUAL - OFF - REMOTE
- Battery test points

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# MASTER STROBE LIGHT ASSEMBLY



## NOTES

- All cables installed through top casting, breakable coupling, column, into J.B..
- Secure cables in J.B. using clip.

## CONDUCTOR USAGE

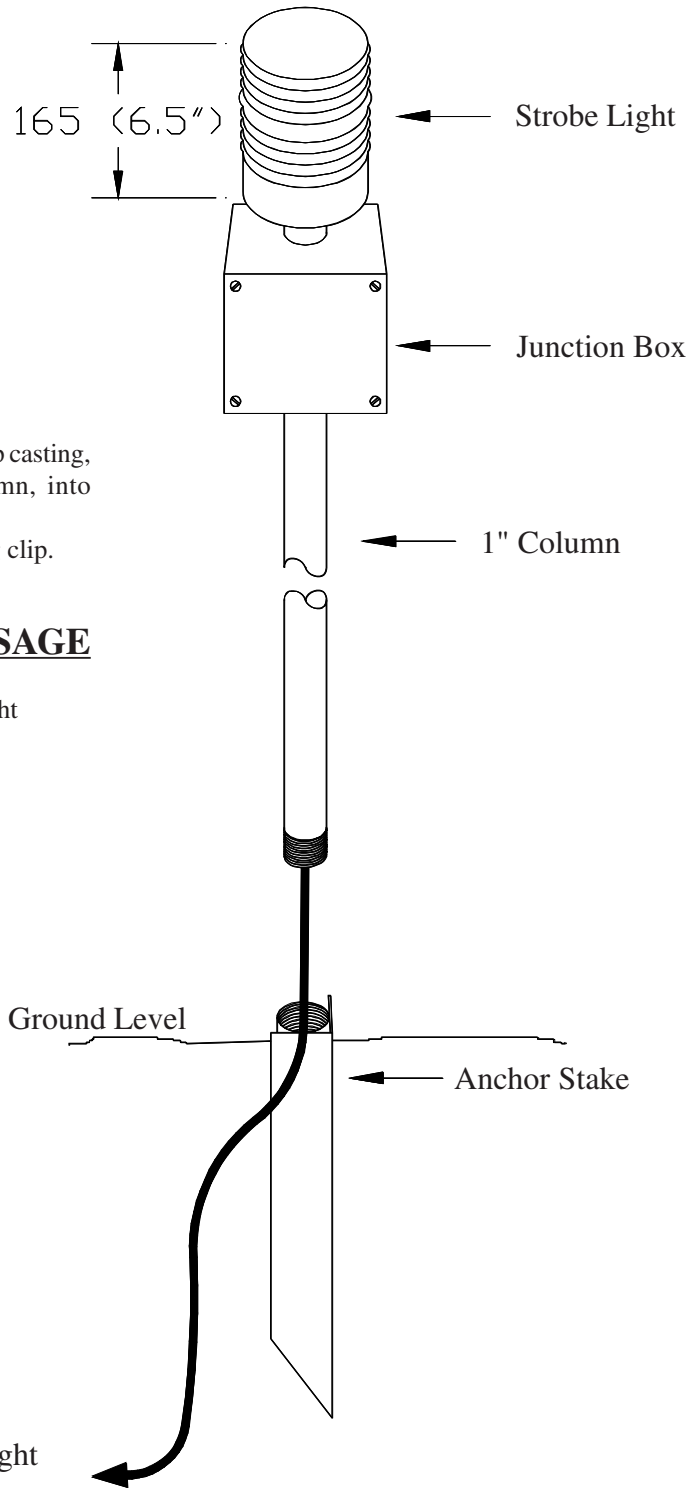
Master to Slave Strobe Light  
3/C #16 SOW D/B Cable  
Master to Control Cabinet  
2/C #14 SOW D/B Cable

Drawing No. 30A

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# SLAVE STROBE LIGHT ASSEMBLY



## NOTES

- Cable installed through top casting, breakable coupling, column, into J.B..
- Secure cable in J.B. using clip.

## CONDUCTOR USAGE

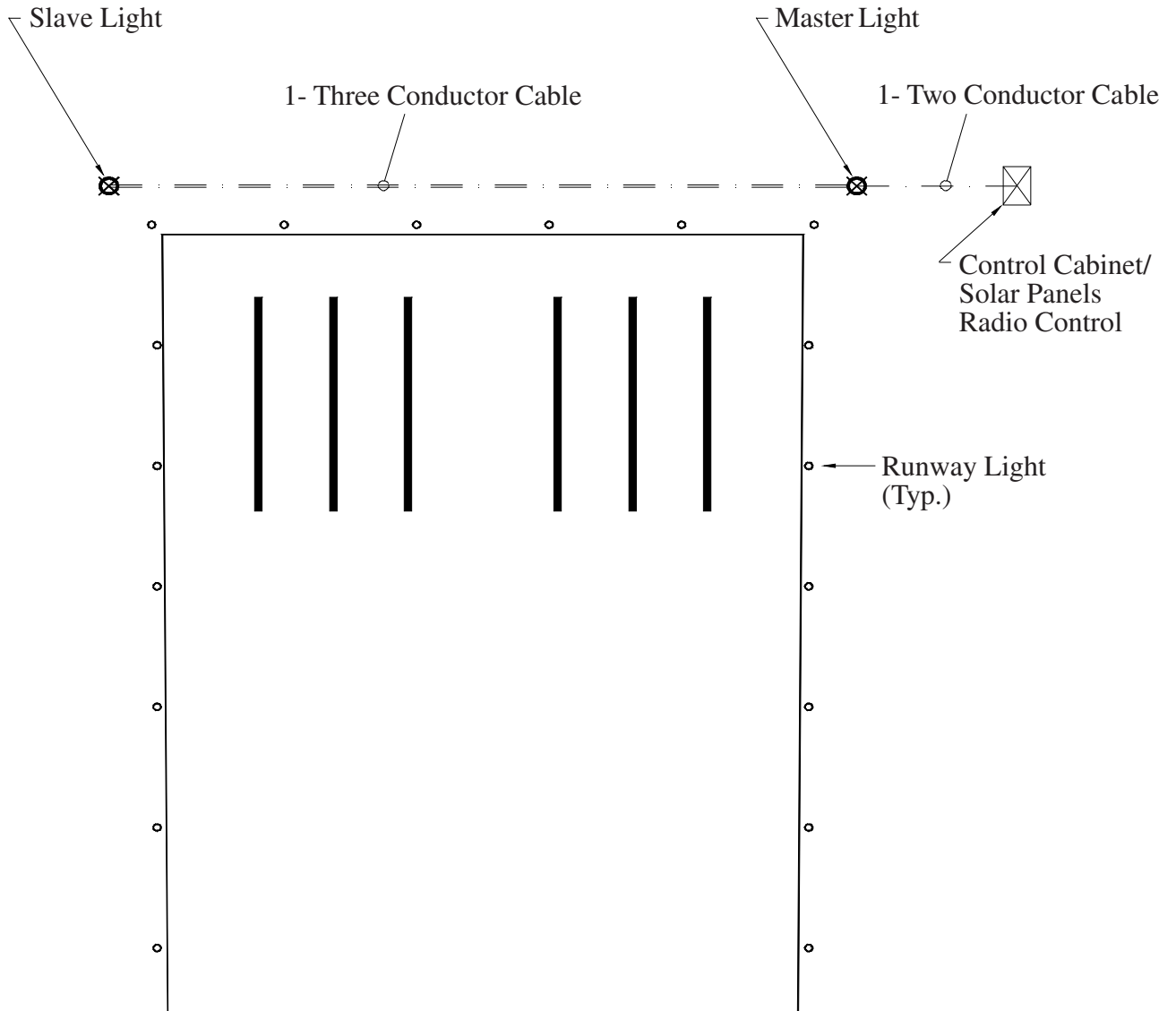
Master to Slave Strobe Light  
3/C #16 SOW D/B Cable

Drawing No. 30B

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# RUNWAY IDENTIFICATION LIGHTS SOLAR POWERED/RADIO CONTROL



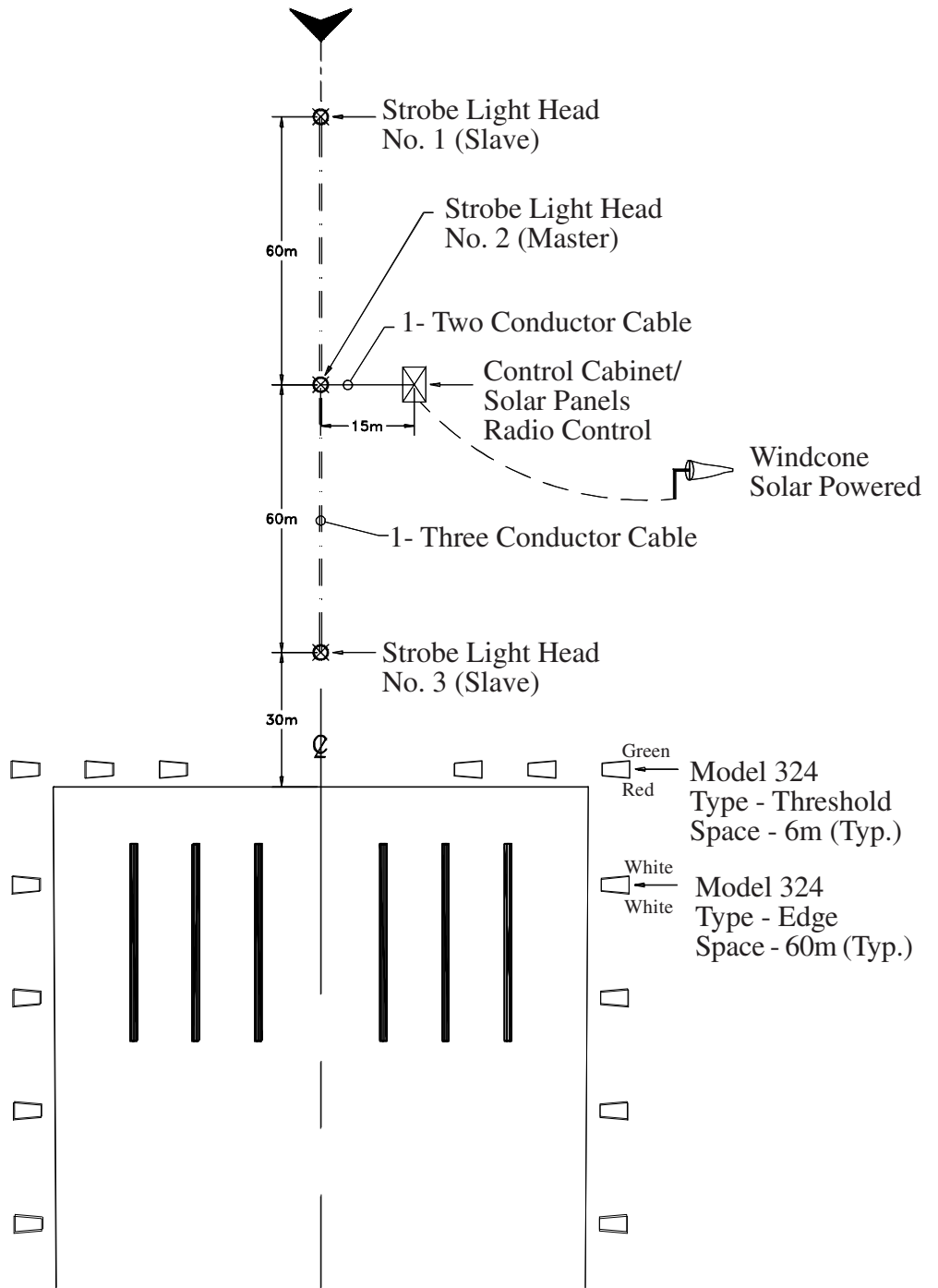
**R.I.L.S. LAYOUT TYP.**

Drawing No. 40B

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# RUNWAY STROBE LIGHT APPROACH LAYOUT SOLAR POWERED/RADIO CONTROL



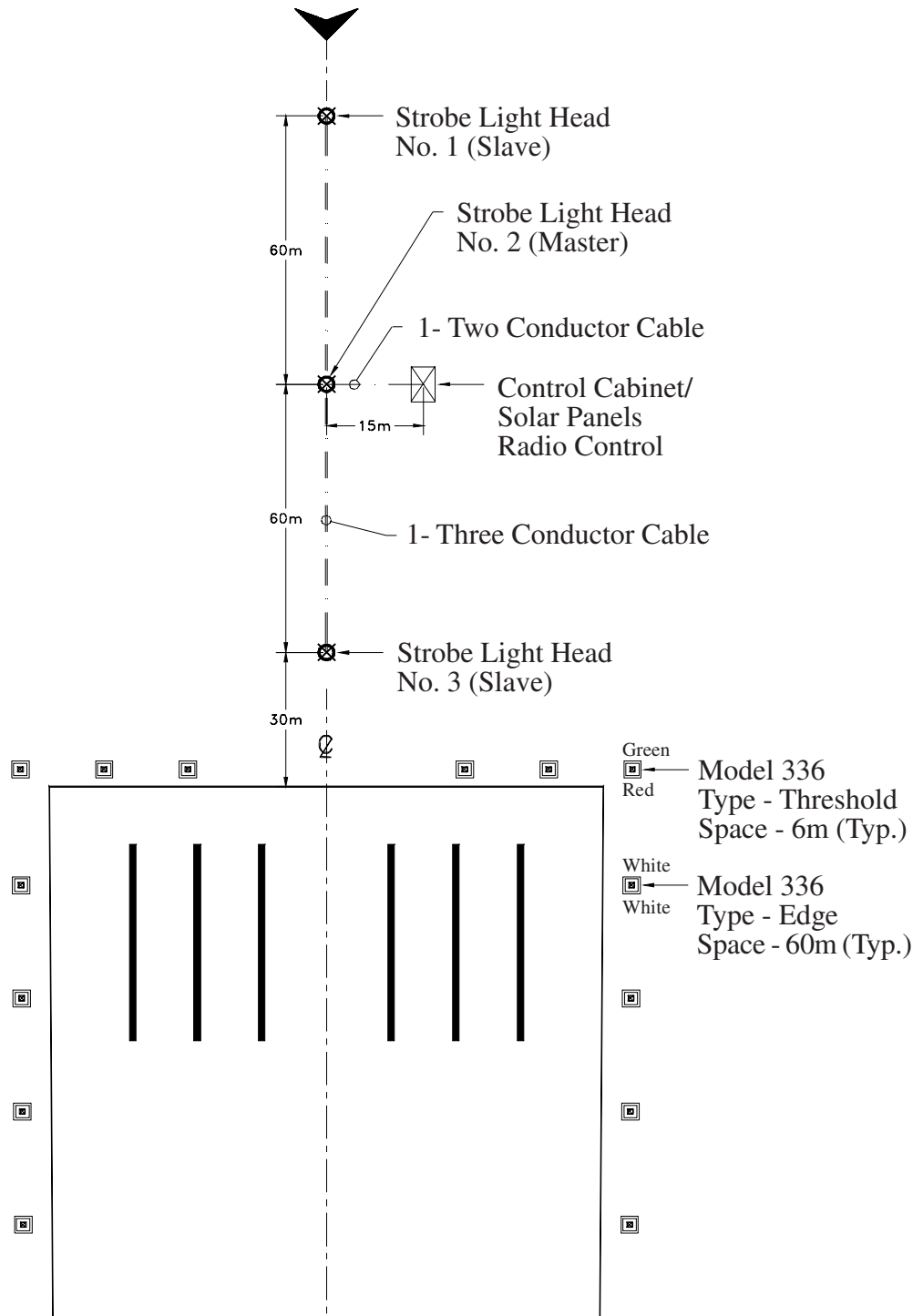
**R.S.L.A. LAYOUT TYP.**

Drawing No. 21A

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# RUNWAY STROBE LIGHT APPROACH LAYOUT SOLAR POWERED/RADIO CONTROL



**R.S.L.A. LAYOUT TYP.**

Drawing No. 21B

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# RUNWAY STROBE LIGHT APPROACH LAYOUT SOLAR POWERED/RADIO CONTROL

**MODEL: BSL-RS1S-4R**

Sequence Flash Operation

Order of Flash:

Light No. 1 then,  
Light No. 2 then,  
Light No. 3 then,  
Light No. 4 then,  
Light No. 5A & 5B together

Flash Rate @ 30 FPM

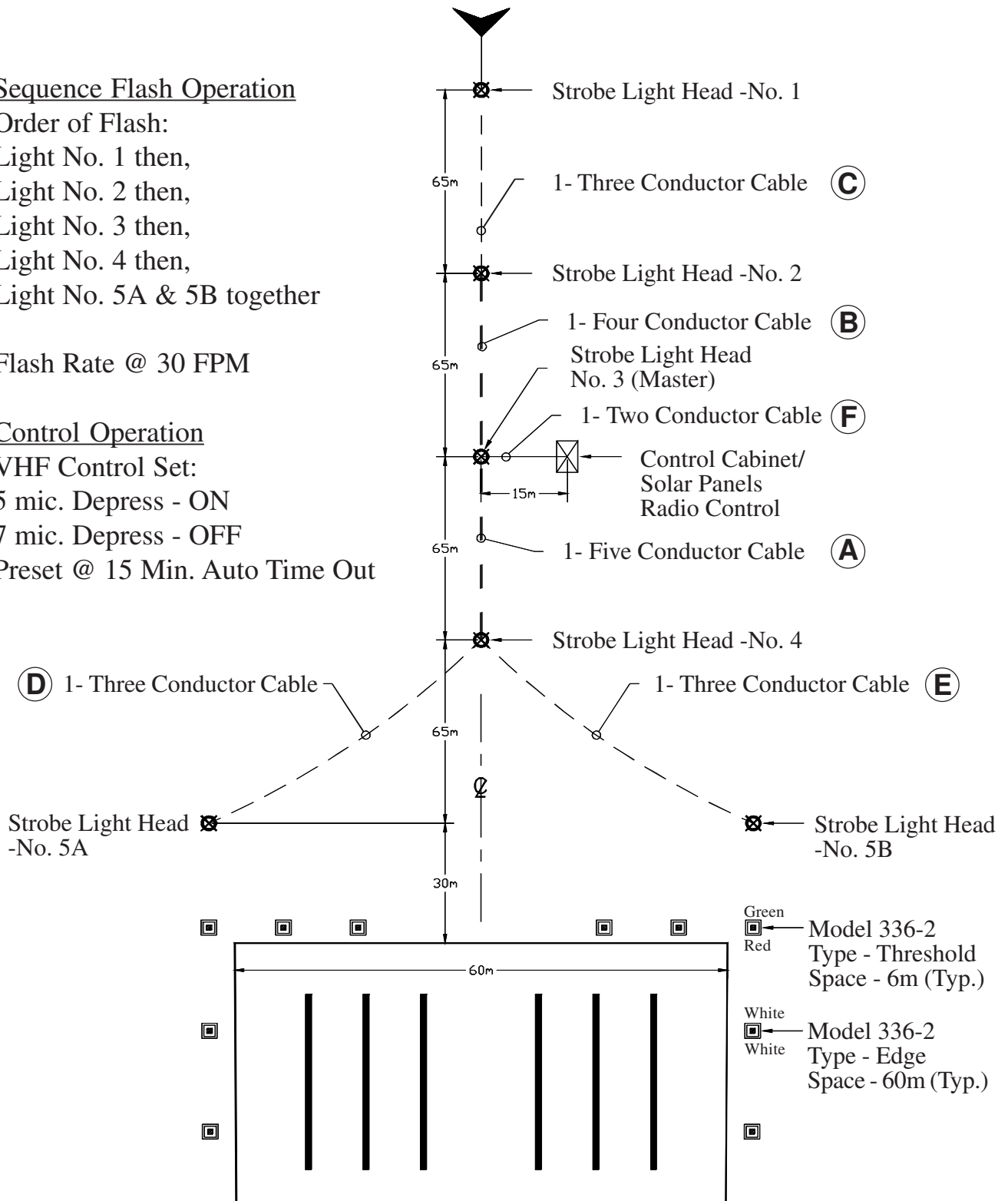
Control Operation

VHF Control Set:

5 mic. Depress - ON

7 mic. Depress - OFF

Preset @ 15 Min. Auto Time Out



**R.S.L.A. LAYOUT TYP.**

Drawing No. 21B1

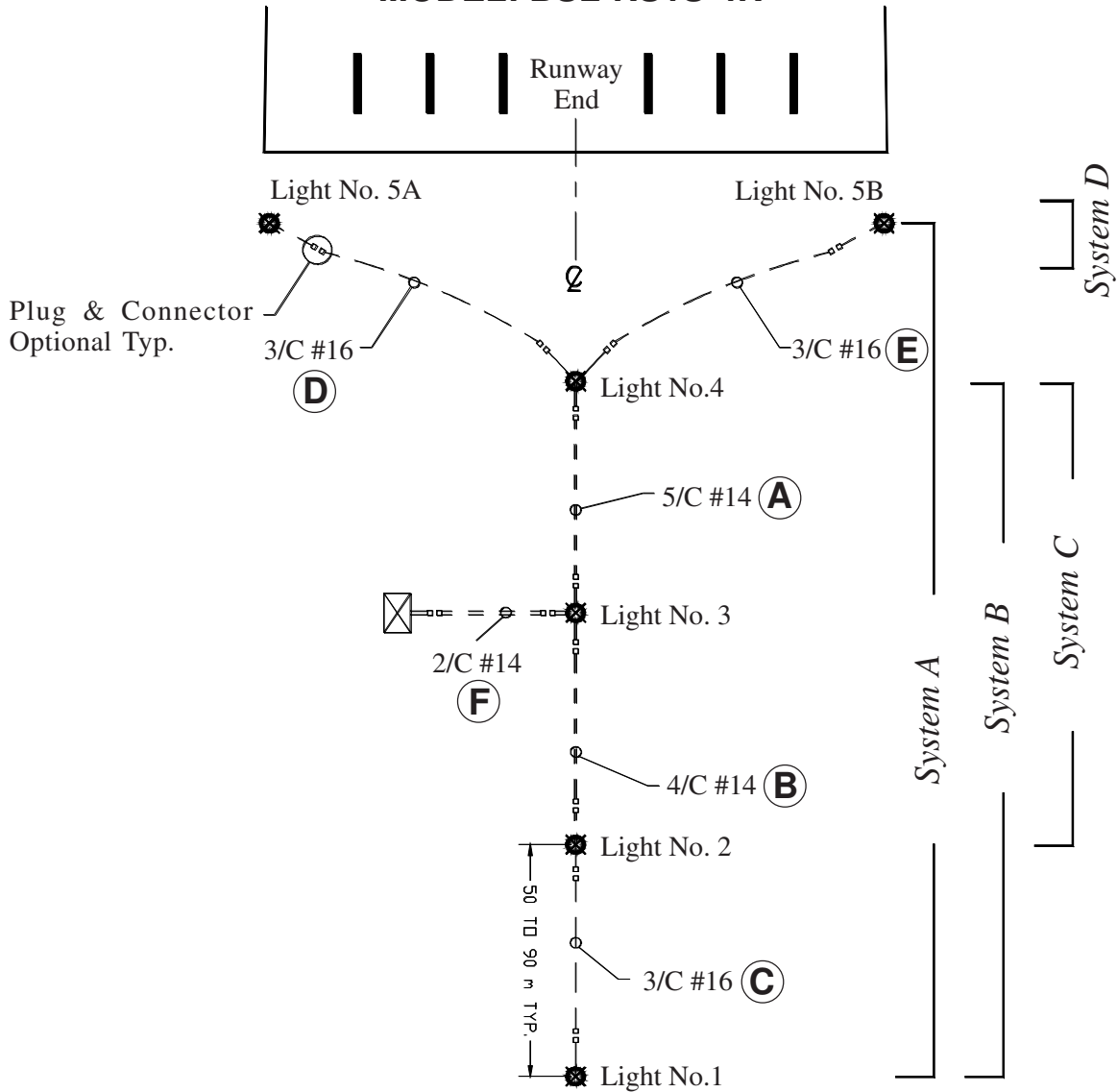
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# RUNWAY STROBE LIGHT APPROACH LAYOUT SOLAR POWERED/RADIO CONTROL

**MODEL: BSL-RS1S-4R**



Strobe Light Layout and Connections

**Procedure:** Place strobe lights in identification numbered order -as per above layout.  
Extend cable sets as per connect tags.  
Verify all cable sets are correct and tight BEFORE turning on.

**Connection Options:** Two (2) sets of cords are supplied for connection between strobe lights.

- System A: 6 - Strobe Lights [ 4 on *centre line* & 2 on runway end ]
- System B: 4 - Strobe Lights [ 4 on *centre line* ]
- System C: 3 - Strobe Lights [ 3 on *centre line* ]
- System D: 2 - Strobe Lights [ 2 on runway end ] \*Light No. 3 & 4 must be connected with lamps removed.

## R.S.L.A. LAYOUT TYP.

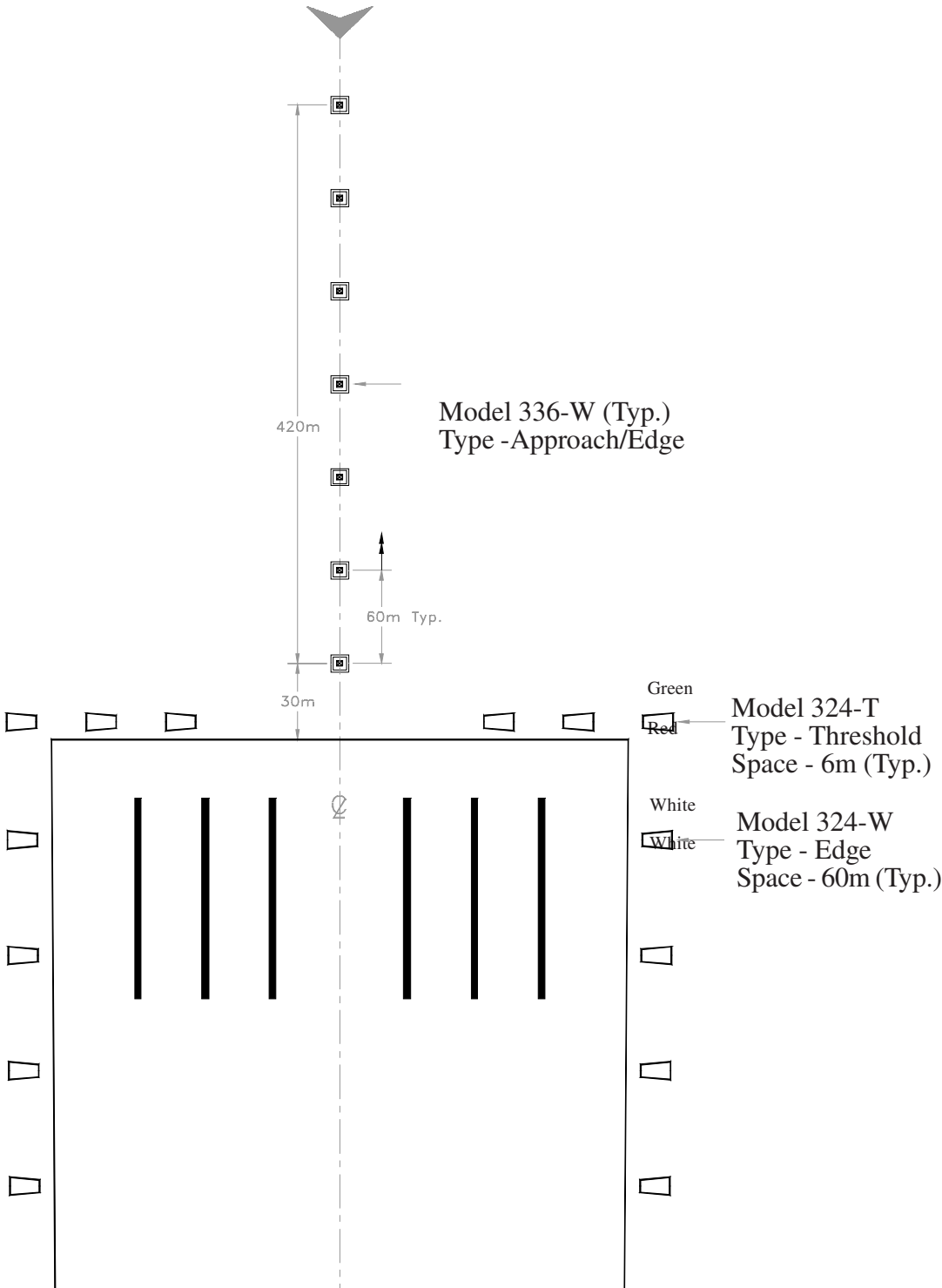
Drawing No. 52

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# RETRO-REFLECTIVE APPROACH SYSTEM FOR MEDIUM INTENSITY R/L RUNWAY

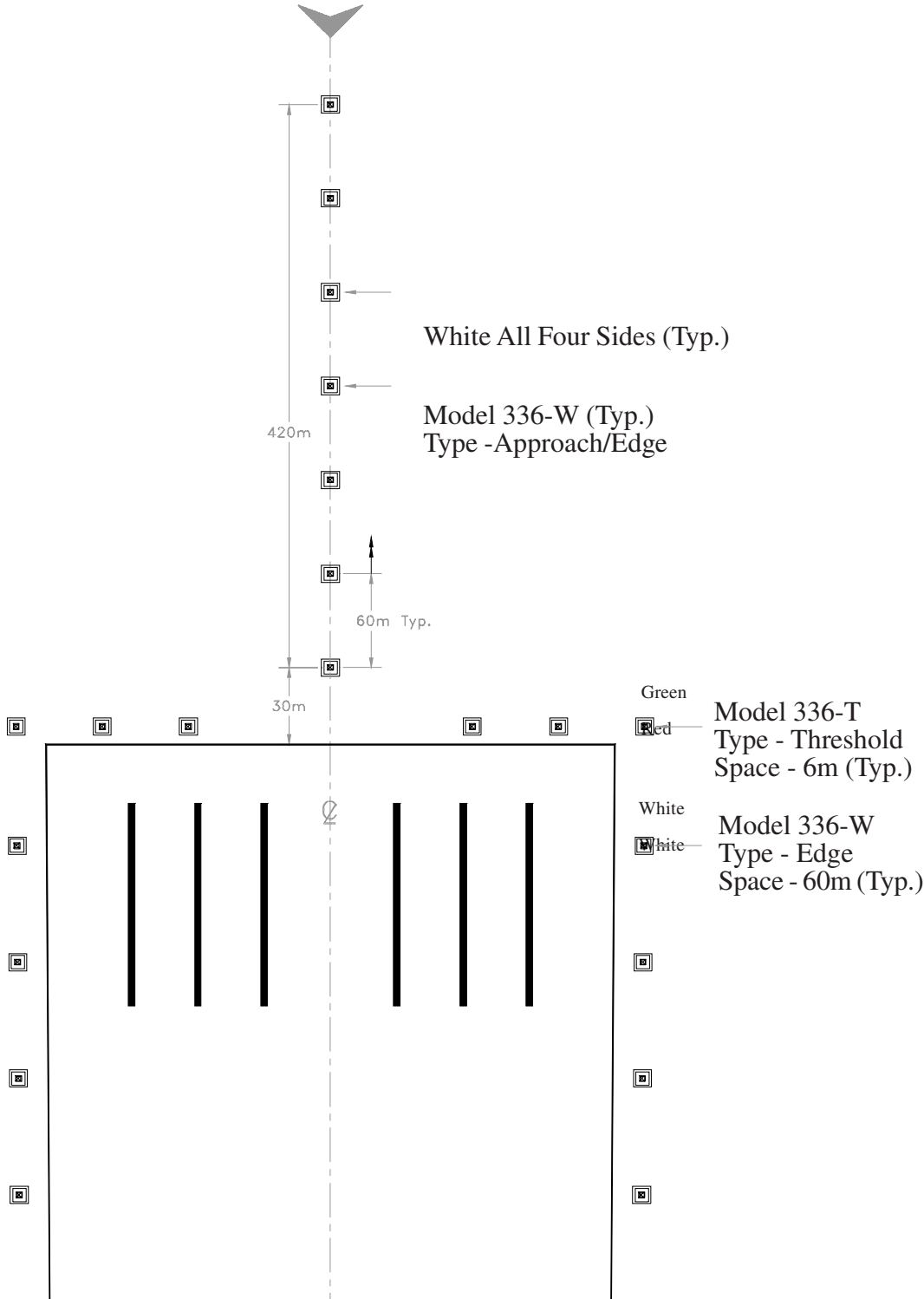


**R.L.A.S. LAYOUT TYP.**

Drawing No. 22A

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 (U.S. PATENT No. 5, 115, 343; C.N.D. PATENT No. 2, 015, 859)

# RETRO-REFLECTIVE APPROACH SYSTEM FOR HIGH INTENSITY R/L RUNWAY



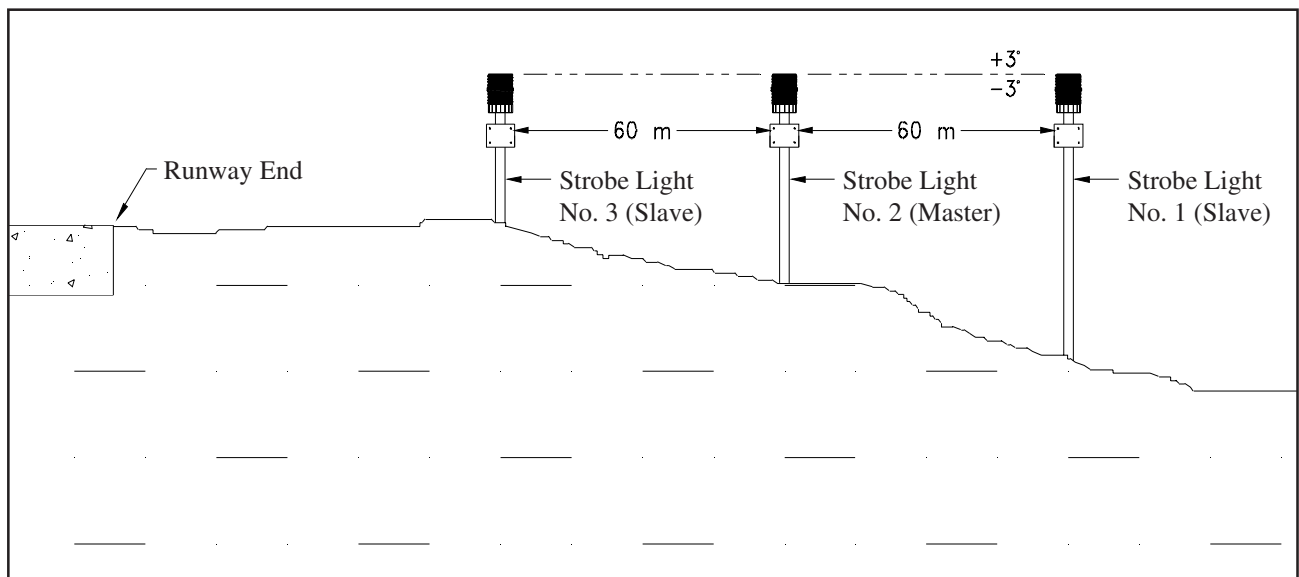
**R.L.A.S. LAYOUT TYP.**

Drawing No. 22B

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 (U.S. PATENT No. 5, 115, 343; C.N.D. PATENT No. 2, 015, 859)

# RUNWAY/HELIPORT STROBE LIGHT APPROACH LAYOUT

*STROBE LIGHT PLACEMENT - HORIZONTAL TOLERANCES*



Maintain Strobe Lights level to a Maximum of  $\pm 3^{\circ}$  slope angle away from Runway End.  
Cut or extend supplied column to suit local ground conditions.  
Refer to drawing No.'s 21A, 21B

Drawing No. 50

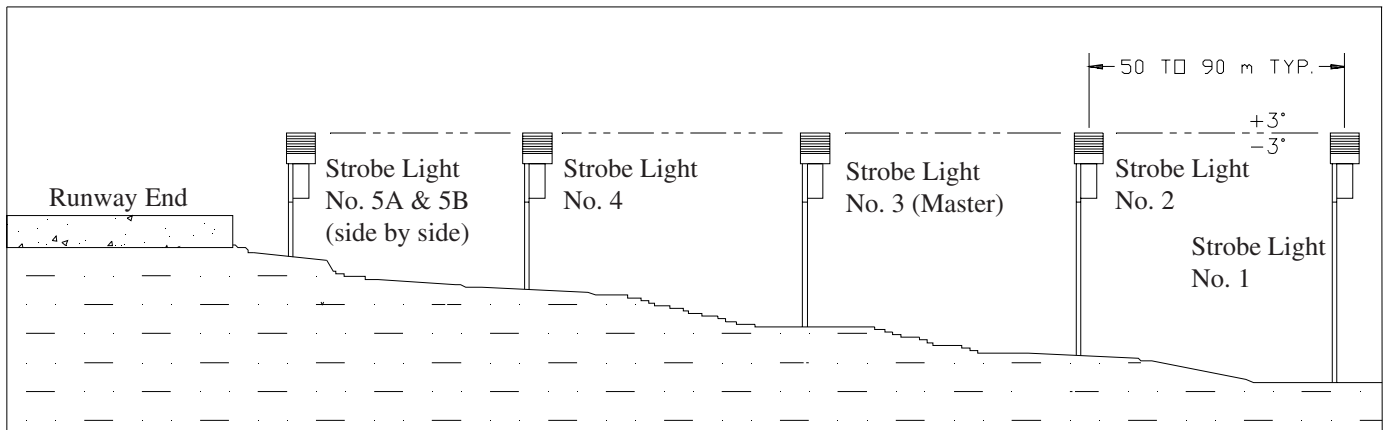
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# RUNWAY/HELIPORT STROBE LIGHT APPROACH LAYOUT

*STROBE LIGHT PLACEMENT - HORIZONTAL TOLERANCES*

Four (4) Light Centre Line and Two (2) RIL's



Maintain Strobe Lights level to a Maximum of  $\pm 3^\circ$  slope angle away from Runway End.  
Cut or extend supplied column to suit local ground conditions.  
Refer to drawing No.'s 21B1, 30C-H

Drawing No. 51

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