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**GRID SUMMARY**

Name:	Spill
Size:	0.0m x 0.0m
Spacing:	10.0m x 10.0m
Height:	0.0m above grade

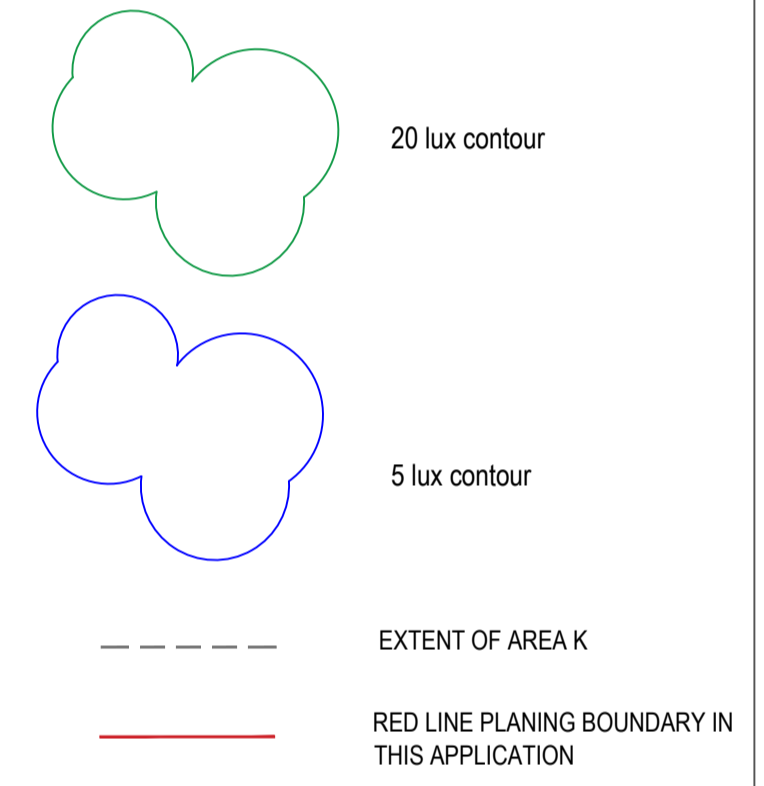
**ILLUMINATION SUMMARY**

MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	23.37
Maximum:	94.02
Minimum:	0.00
Min / Avg:	0.00
Min / Max:	0.00
UG (adjacent pts):	11.11
CU:	1.00
No. of Points:	2666

**LUMINAIRE INFORMATION**

Applied Circuits:	A
Design Usage Hours:	100,000
No. of Luminaires:	74
Avg Load:	58.72 kW
Max Load:	65.24 kW

**LEGEND**



Rev	Date	Drawn	Checked	Amendment / Issue	App
P04	27/06/24	JE	JE	Issue for Planning	☑
P03	18/10/23	JE	JE	Revised for Planning Issue	☑
P02	02/03/23	JE	JE	Reissued for Information	☑
P01	21/11/22	JE	JE	Issued for Information	☑

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Project **3FMProject** Bringing Dublin Port To 2040

Title  
**Ro-Ro Terminal (Area K)  
Lighting Calculation Design**

Model File Identifier

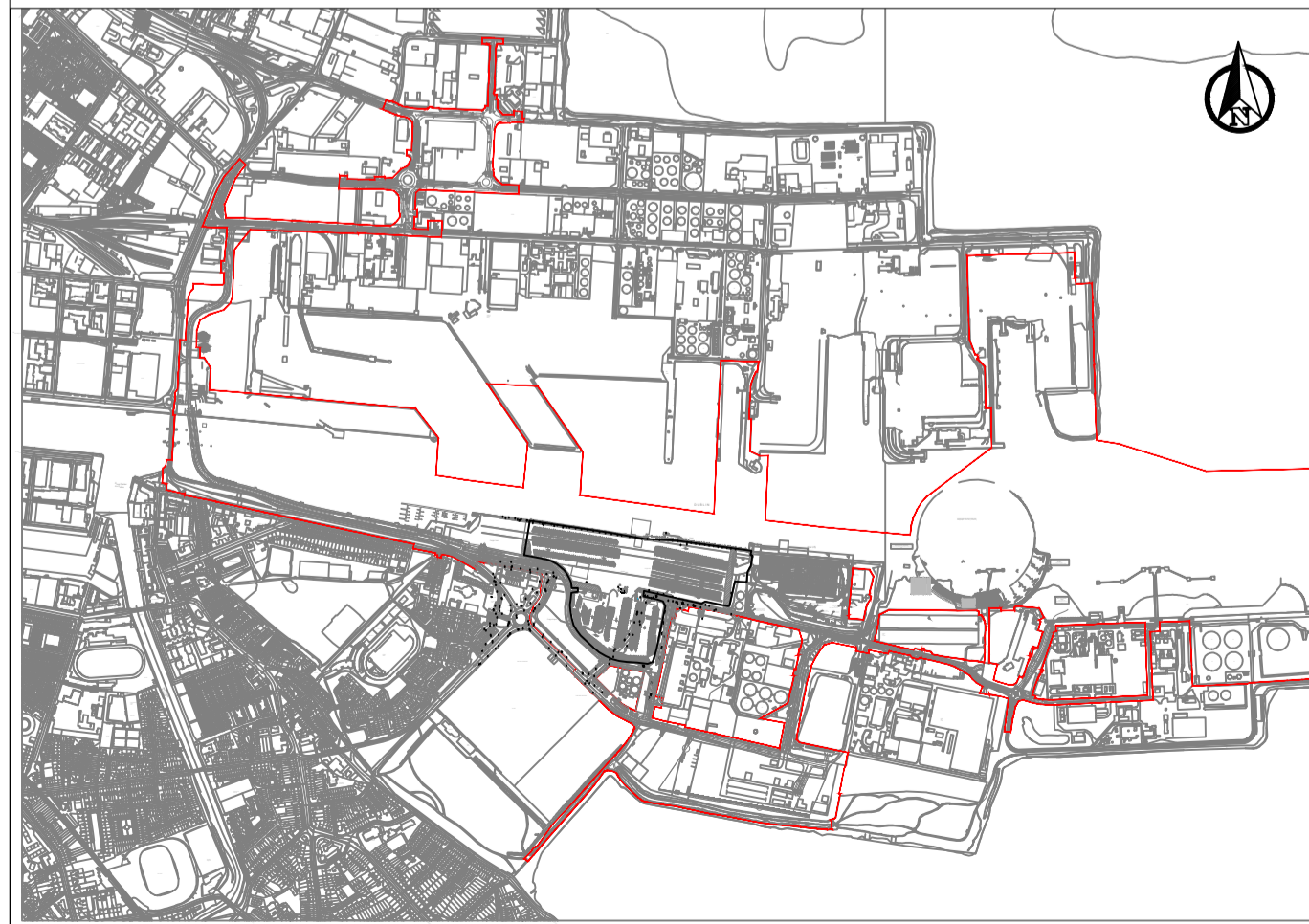
File Identifier  
**CP1901-3FM-RPS-S45-04-DR-E-0431**

Created on 15/03/2023

Scale 1:1000 @ A1 @ A3

Sheets 1  
Status S4  
Rev P04

**KEY PLAN AREA K**



**Lighting System**

**Pole / Fixture Summary**

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Avg Load	Max Load	Circuit
HMLK1	30.0	30.0	5	TLC-LED-900	3.96 kW	4.40 kW	A
HMLK2	30.0	30.0	4	TLC-LED-900	3.20 kW	3.56 kW	A
HMLK3-HMLK5, HMLK8	30.0	30.0	4	TLC-LED-900	3.17 kW	3.52 kW	A
HMLK6, HMLK11	30.0	30.0	8	TLC-LED-900	6.34 kW	7.04 kW	A
HMLK7	30.0	30.0	5	TLC-LED-900	3.97 kW	4.41 kW	A
HMLK9-HMLK10	30.0	30.0	9	TLC-LED-900	7.13 kW	7.92 kW	A
HMLK12	30.0	30.0	5	TLC-LED-900	3.99 kW	4.43 kW	A
HMLK13	30.0	30.0	5	TLC-LED-900	4.00 kW	4.44 kW	A
<b>13</b>			<b>74</b>		<b>58.72 kW</b>	<b>65.24 kW</b>	

**Circuit Summary**

Circuit	Description	Avg Load	Max Load	Fixture Qty
A	Plot K	58.72 kW	65.24 kW	74

**Fixture Type Summary**

Type	Source	Avg Wattage	Max Wattage	Constant Lumens	Application	Quantity
TLC-LED-900	LED 5700K - 75 CRI	792W	880W	88,400	100K	62
TLC-LED-900	LED 5700K - 75 CRI	801W	890W	76,160	100K	12

**Single Luminaire Amperage Draw Chart**

Driver (.90 min power factor)	Max Line Amperage Per Luminaire						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

**TYPICAL DUCT DETAIL**

