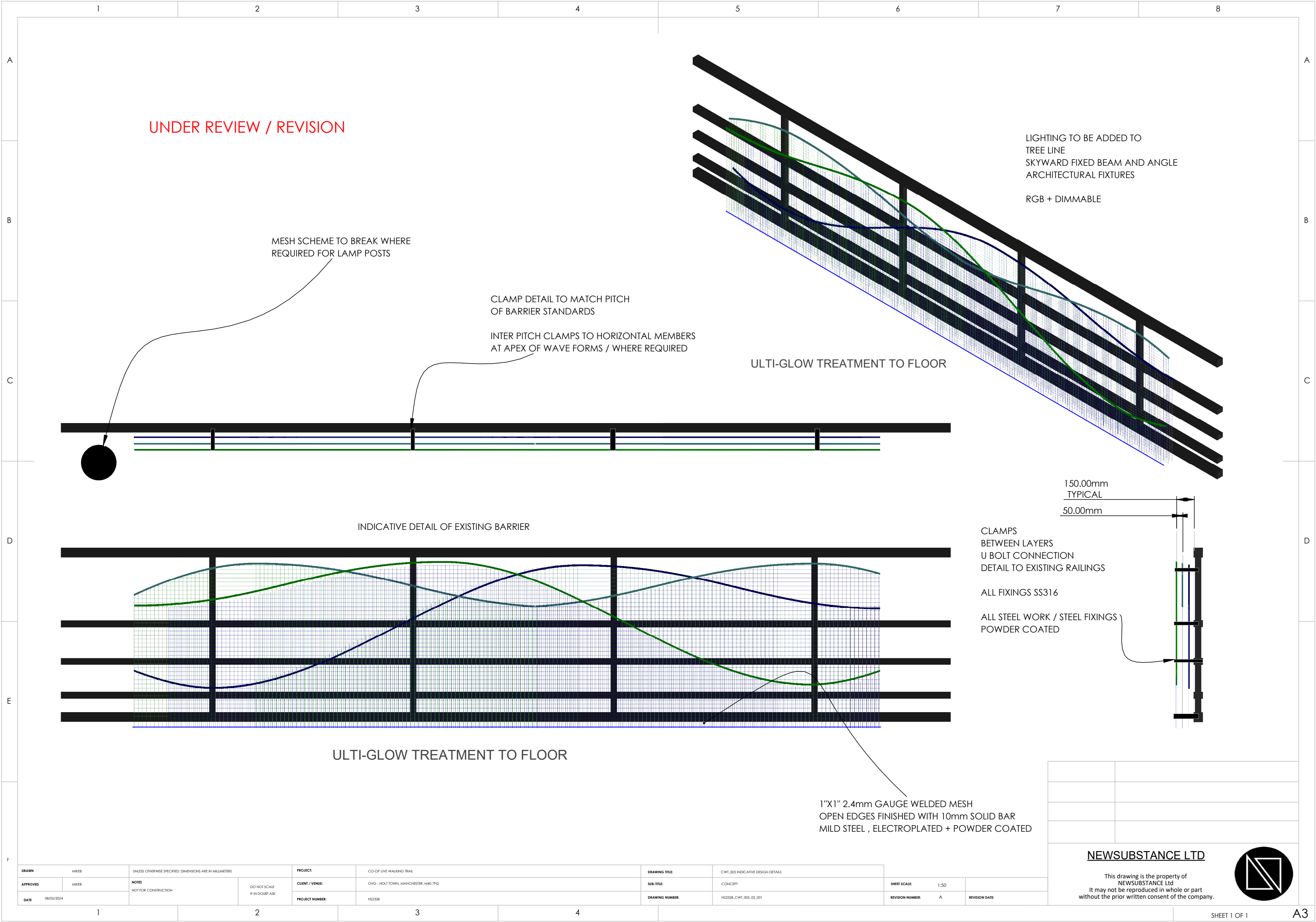
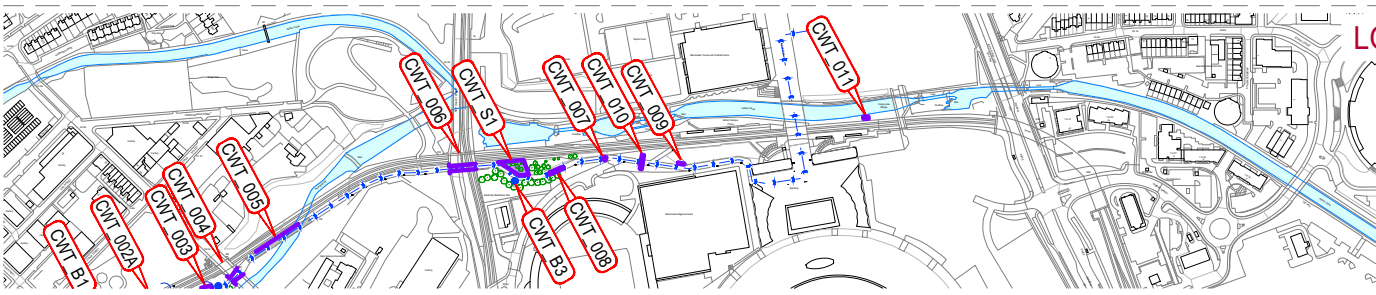
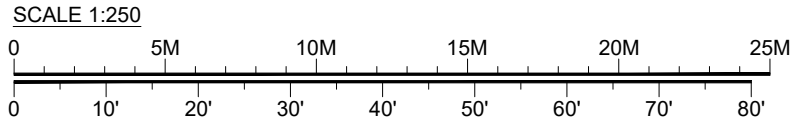
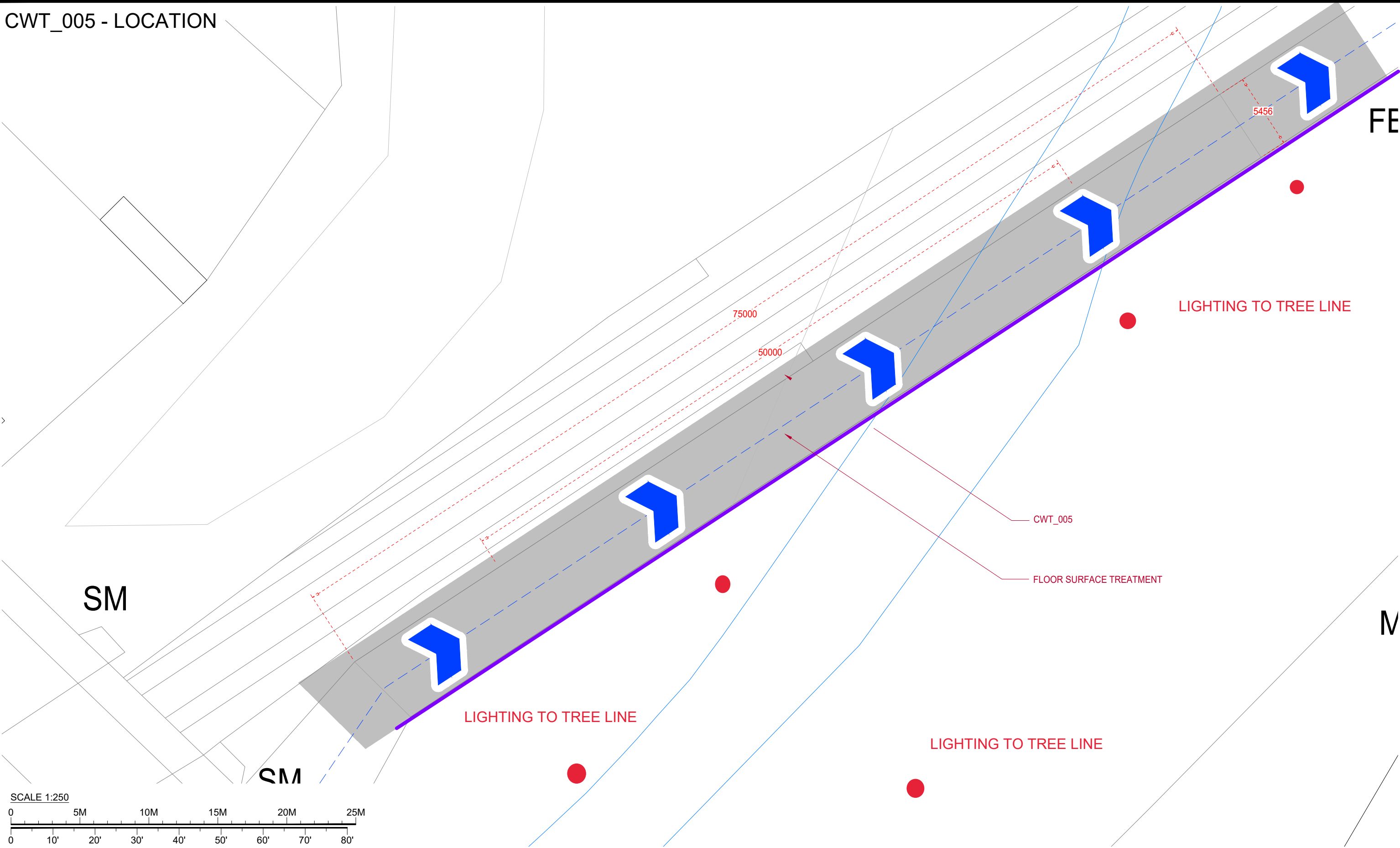
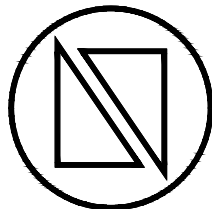
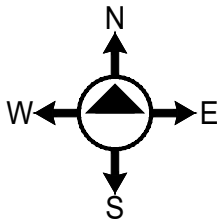




CWT_005 - LOCATION



LOCATION OVERVIEW KEY



DO NOT SCALE FROM THIS DRAWING.
All dimensions must be checked on site prior to the commencement of installation. Any errors or omissions must be brought to the attention of the designer.
IF IN DOUBT ASK.

PROJECT: CO-OP WALKING TRAIL			
CLIENT: NEWSUBSTANCE			
VENUE: HOLT TOWN, MANCHESTER, M40 7FQ			
TITLE: CWT_005 - LOCATION			
SCALE: 1:250	ORIGINAL SIZE: A3	DRAWN: TOM WHITE	REV: D
DRG DATE: 22/01/2024	DWG No: CWT-014		
NEWSUBSTANCE LTD, GREENSAND FOUNDRY, 99 WATER LANE, LEEDS LS11 5QN WWW.NEWSUBSTANCE.CO.UK			

ULTIGLOW

CONTRACTOR GUIDE

December 2018



ULTIGLOW

CONTRACTOR GUIDE

1. INTRODUCTION

ULTIGLOW is an innovative glow in the dark two part system that is easy to lay with conventional equipment. The specially designed asphalt receiving course is laid by hand or machine, 30mm thick followed by an application of **ULTIGLOW** chippings.

2. WEATHER

Prior to ordering, ensure the following is considered – BS 594987:2015. Laying shall be carried out with due regard to ambient weather conditions so that materials can be properly compacted. The asphalt shall not be laid on any surface which is frozen or covered with ice or snow. Laying shall cease when the air temperature reaches 5°C on a falling thermometer, except in calm dry conditions, when laying shall cease if the air temperature reaches 2°C on a falling thermometer. Do not lay in standing water or during periods of heavy rain.

Laying in windy and/or cold conditions should be avoided, however, if this is unavoidable, then it is important to minimise overall timings from discharge of material into the paver and final rolling of the chippings into the freshly laid surface course asphalt.

3. DELIVERY

The asphalt receiving course will only be transported in fully insulated vehicles. The truck must remain sheeted at all times during tipping and chuted vehicles should be encouraged where hand laying is involved.

It is recommended that you have a calibrated digital thermometer to check the material temperature upon discharging, prior to rolling and throughout the rolling operation. The minimum discharge temperature shall be 140°C. It is recommended that accurate laying records are kept as this will assist in developing your installation best practice.

It is the contractor's responsibility to ensure that there are sufficient **ULTIGLOW** chippings available on site to complete the work required.

4. SITE PREPARATION

Prior to proposing **ULTIGLOW** for use, the contractor shall ensure that a site condition survey is carried out and any potential issues identified.

The receiving course shall be laid onto a suitable binder receiving course. Where the previous surface supported concrete flags, flagstones, block paving etc. the sand must be removed and swept clear. If below the sand there is a binder course, this will then become the receiving course providing it is sound and of suitable regularity. If not, a new binder course will be required.

Assess site access for delivery vehicles to ensure loaded trucks can be accommodated and there are no obstacles or overhead cables.

Advise the order office of any difficulties that may be experienced at site. Where material has to be trans-shipped on site, remember that this will affect the temperature of the product and its workability, which may impact on the installation process.

Should the contractor have any concern regarding product suitability for any specific site, please seek advice from the Tarmac Technical Team who will be pleased to assist.

5. LAYING AND COMPACTION

The asphalt receiving course is laid at a thickness of 30mm. The laid thickness at any point should not be less than 25mm. It is essential to evenly spray apply a tack coat of bitumen emulsion (BS594987:2015) on to the receiving course which will bond the surfacing to the substrate and will help prevent undue layer movement during the compaction process thereby assisting achievement of a good surface finish. End of day joints shall be cut back at least 300mm to a vertical face. All joints shall be painted with a compatible joint paint or hot bitumen.

When using a mini paver on wider footpaths it is helpful to 'break' the paver screed, giving the material a crest, otherwise there is a tendency to get excessive roller marks in the centre of the mat.

Compaction shall be carried out in accordance with the general requirements of BS 594987 utilising a minimum 1.5 tonne tandem roller. Pedestrian guided rollers (single drum) should only be used when space is too restrictive, ride on rollers should be used wherever possible.

After initial compaction by the paver or, in the case of hand laying, prior to the first pass of the roller, a uniform layer of **ULTIGLOW** chippings shall be applied to the asphalt receiving course which shall then be rolled to compact the mixture and embed the chippings. Any defects in the asphalt receiving course must be remedied before applying the **ULTIGLOW** chippings.

The **ULTIGLOW** chippings shall be applied at a minimum spread rate of 0.25kg/m² by hand. Any chipping defects must be remedied before rolling and there should be no casting back onto the chipped surface.

Ensure **ULTIGLOW** is fully compacted to avoid future fretting or surface degradation. Rolling operations should be substantially complete before the material temperature drops to 75°C. The finished surface should be continuously inspected during laying operations, keeping it clean and any defects immediately rectified. To avoid deformation or damage, the surface must not be trafficked until it has been allowed to cool to near ambient temperature.



Q·2 POI

RGBW LED Wash Light



Description

The Q-2 POI is a bright and powerful IP66-rated outdoor LED wash light, ideally suited for small to medium sized applications such as building facades, landscapes and trees, signage, and architectural features. Besides sharing some of the key features of the larger Q-7 POI, like color calibration and wide angle lighting coverage, the Q-2 also includes the benefits of three-segment pixel mapping control and low power consumption.

Features and benefits

- ✓ High-performance color LED wash light
- ✓ Ideal application: building facades, landscape and trees, signage, and architectural features
- ✓ Superior RGBW color mixing
- ✓ 5-year warranty in corrosion class C5-M (marine)
- ✓ 110° wide-angle coverage
- ✓ Rugged and ultra-compact construction in only 6kg (13.2lbs.)
- ✓ Flicker-free operation with 100% smooth dimming performance
- ✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation

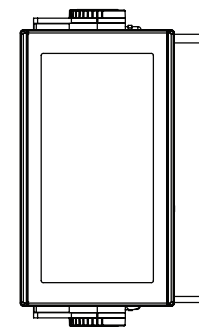
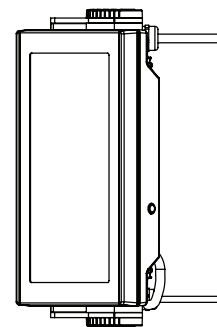
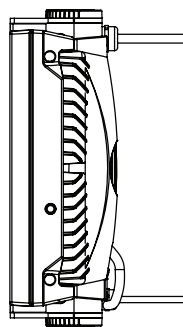
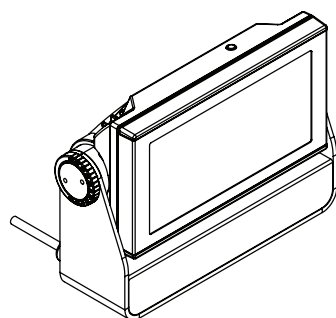
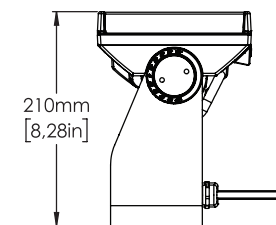
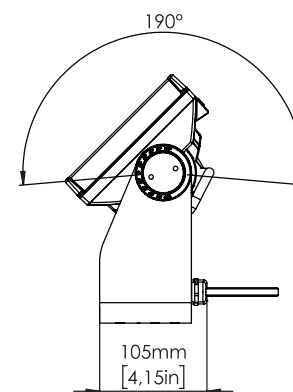
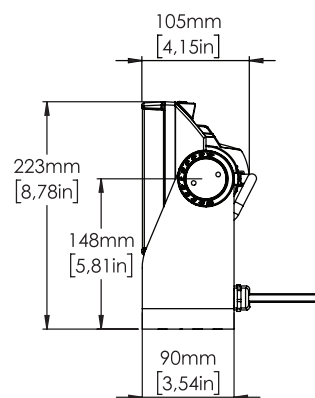
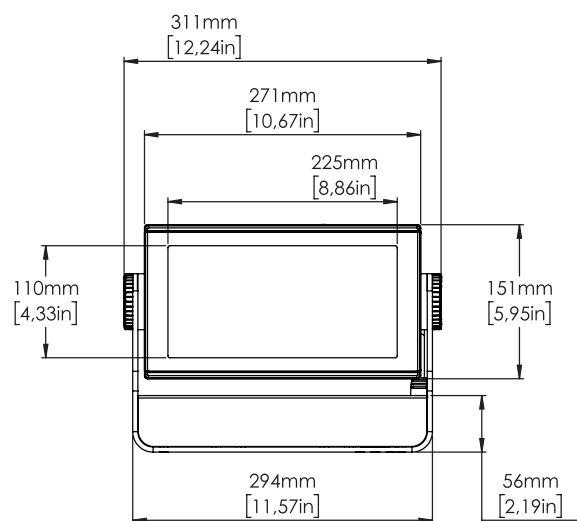
Certifications & classifications

IP66
INGRESS

RoHS
COMPLIANT

CE





Specification

Optical Data	LED expected lifetime	50,000 hours	
	Lightsource	864 x RGBW SMD LEDs (5,700K)	
	Native lens options	110°	
	Optional filters	Extra medium angle soft diffusion, Q, internal	
		Extra wide angle soft diffusion, Q, internal	
Elliptical horizontal effect, Q, internal			
Elliptical vertical effect, Q, internal			
Photometric	Color temperature range	2000K - 10000K	
	Efficacy	46 lm/W	
	Light output all LEDs on	9000 lm	
	Light output blue	562 lm	
	Light output green	2250 lm	
	Light output red	1379 lm	
	Lumen per kilogram	1500 lm / Kg	
	Lux @ 10m	35 lux	
	Lux @ 5m	141 lux	
	Native beam angle(s)	107° (with 110° lens)	
	Native field angle(s)	154°	
	Physical	Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
Corrosion class		C5 (ISO 12944:2018)	
Effective Projected Area		0.96 Square ft	
IK rating		IK05	
IP class		IP66	
Lens material		Tempered glass front	
Material		Aluminium	
Net dimensions L x H x W		334 x 223 x 105 mm	
Net dimensions L x H x W (inches)		13.2 x 8.8 x 4.1 inches	
Net weight		6 kg (13.2 lbs)	
Features		Color calibration	SGM proprietary, full color calibration
		Dehumidifier	Head
	Dimming	2 Smooth fade in, DMX-controllable curves: gamma corrected, and linear	
	Filters	Optional internal spread angle filters (factory assembled)	

	LED panel	3 individually controllable segments
	Power / DMX indicator	Head
	Strobe	Ultra-high-speed strobe effects Pixel strobe feature (up to 3 segments)
	Tilt	0 - 190°
	Tilt locking system	POI Locking system with pignose bolts and angle indicator
Electrical	Electrical protection	Overload protection
	Input voltage, absolute max. rating	90 - 305 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 277 VAC; 50 / 60 Hz
	Max inrush current 230VAC	75 A
	Max power consumption	265 W
	Power factor	0.96 PF (230 V)
	Power Supply Unit	Inbuilt IP 67 Auto-ranging electronic switch-mode
	Standby power consumption	5 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	DMX channels	3, 6, 9, 12, 15 or 22
	DMX modes	6
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A Wireless RDM RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
	Wireless DMX	Lumen Radio with RDM
Connections	Data cable diameter	6,5 mm +/- 0,2 mm
	DMX data in/out	5 meter cable for DMX In and DMX Thru (permanently wired)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
Installation	Mounting point	2 M-10 locking points (suitable for one optional POI Omega bracket)
	Orientation	Any
	Rigging possibilities	Hanging / horizontal mounted
	Safety features	Bottom mount for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).

Thermal	Cooling	Active, Forced Air, Temperature-regulated
	Humidity (max.)	98 %
	Temperature range, operating	-40°C to 50°C
	Temperature range, operating max	50 °C
	Temperature range, operating min	-40 °C
	Temperature range, start-up	-20°C to 50°C
	Temperature range, storage	-40°C to 80°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	904.2 BTU per hour
	Total heat dissipation, standby	17.1 BTU per hour
Included items	Included items	POI Pignose-lock Key with magnet Safety instructions and installation quick guide 2 M-10 screws
Conforms To	CE - 2014/30/EU: EMC Directive	EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 EN 55032 EN 55035
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	RoHS2 Directive	2011/65/EU
	UL	UL Std. 1573
Certified To	CSA	CSA-E598-2-17-98, Ed: 1 CSA E60598-1, Ed: 3