Technical Note

Project:	**Northern Hub**	Job No:	**60313370**
Subject:	**Water Street and Liverpool Road Lighting Design Philosophy**		
Prepared by:	**Allan Hilton**	Date:	**20.06.2017**
Checked by:	**Karen Radband**	Date:	**20.06.2017**
Approved by:	**Stephen Alexander**	Date:	**20.06.2017**

The lighting at Water Street and Liverpool Road has been designed in accordance with the Public Lighting PFI Development Particular Specification reference "Ordsall Chord Street Lighting DPS 18 11 14", and the Manchester Development Standard Specification for Street Lighting Works Rev F, provided by Manchester City Council.

The documents enclosed in this submission include:

Description	Name	Revision
WPA WSLR Highway Lighting Drawing	NHE_127523-2405-OCD-WPA-DDR-D-000070	P02
WSLR Lighting Design Report	NHE_127523-2405-OCD-WPA-RER-W-000056	D
WSLR lighting memo	NHE_127523-2405-OCD-WPA-RER-W-000095	P01
WPA HWY Water Street and Liverpool Rd - Proposed Lighting	NHE_127523-2405-OCD-WPA-XCH-W-000003	P01
WPA HWY Liverpool Rd ME Calc - Proposed Lighting	NHE_127523-2405-OCD-WPA-XCH-W-000004	P01
WPA HWY Water Street ME Calc - Proposed Lighting 8m Columns	NHE_127523-2405-OCD-WPA-XCH-W-000005	P01
WPA HWY Water Street ME Calc - Proposed Lighting 5m Columns	NHE_127523-2405-OCD-WPA-XCH-W-000006	P02

Note that there is an area on Water Street North (shown in Grid 1) where the uniformity E_{av} does not meet the specified minimum requirement of 20. This is due to the limited headroom beneath the existing old railway bridge which prevents a lighting column from being placed in that location.