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Key to Lighting: Refer to specification data sheets for further details	C9	E5	M
Type A Existing flat glass LED lanterns to be relocated into proposed positions.	Type C9 Existing Retained Listed Columns	Type E5 Lighting to art installation TBC. Contractor to allow for ducting for power and data to location from nearest public realm lighting feeder pillar.	Type M Existing Lanterns Refurbished with Warm White LED Bar and Sand Etched Glass
Type B1, 2 & 3 New flat glass LED lanterns	Type C10 New 6m tapered columns with single head bracket	Type E6 Existing Refurbished Cabinet Containing TP&N Sockets to be re-fed from City Hall Public Realm Power Supply.	Type P New Highways Lantern Mounted on 12m Column
Type C1 Existing 6m column with twin head bracket to be relocated	Type C11 Type C11 New 6m column to hold catenary festoon lighting system	Type E7 Existing Festive Lighting Power Supply/Connection to be Retained	Type Q Narrow Beam LED Floodlights
Type C1a Existing 6m column with single head bracket to be relocated	Type D1 Type D1 Linear LED Luminaires integrated into benches	Type E8 Type E8 New 63A TP&N BS EN 60309 Socket and Isolator integrated into bench enclosure	Type R Medium Beam LED Floodlights
Type C2 New 6m column with single head bracket	Type D2 Type D2 IP67 LED tape to planters	Type F1 & 2 Wall Mounted Lantern	Type S Wide Beam LED Floodlights
Type C3 New 8m column with single head bracket	Type D3 Type D3 IP67 LED tape to benches	Type F4 Wall Mouthed Luminaire	Type T LED Festoon Catenary
Type C4 Bespoke 10m Column	Type E1 Enclosure for LED luminaire drivers and Power Supply Units within benches and planters	Type G Column Mounted Flat Glass LED Lanterns	Type U Type U1 - 6 Inground recessed upright Luminaires
Type C5 Bespoke 12m Column	Type E2 Type E2 Enclosure for 1No 32A SP&N BS EN 60309 sockets and isolator integrated into bench recessed enclosure	Type H Type H Linear LED Tape Mounted on Extruded Aluminium Profile	Type W Type W QVS Bespoke Bench Lighting
Type C6 Bespoke 15m Column	Type E3 Type E3 Existing TP&N pop up power supply (to be retained) with new electrical feed to City Hall	Type J Type J Column Mounted Framing Projector	Type X Type X Existing Wall Mounted Bollards Around Queen Victoria Statue to be Retained and Refurbished
Type C7 Existing Retained 5m heritage columns	Type E4 Type E4 New 63A TP&N pop up power supply	Type K Type K Column Mounted Specialist Narrow Beam Gobo Projector	Type Z1 Type Z1 RGB LED Finales to be retained/relocated with columns
Type C8 Relocated 5m heritage columns		Type L Type L Existing Lanterns Refurbished with Warm White LED Board and Sand Etched Glass	Type Z2 Type Z2 New RGB LED Final to be mounted on top of Columns
			Type ELC Existing Lighting Column & Lantern Retained in Current Location

- Notes to Lighting:
- This is not an installation drawing. Lighting drawings indicate a schematic location of luminaires. See Landscape Architects Drawings for final setting out locations.
 - All luminaires to be supplied complete with light sources, as detailed within the specification.
 - Refer to luminaire datasheets for detailed specification of luminaires, columns, mounting requirements and attachments/accessories.
 - This drawing should be read in conjunction with all other Electrical, Mechanical, Civil and Landscape drawings, specifications, luminaire data sheets and all other relevant documents.
 - Existing lighting columns and equipment along Jameson Street and King Edwards Street South will be reused and relocated along the same streets, as well as Jameson Street East and King Edwards Street North. Existing lighting columns along Whitefriargate will be removed and relocated as identified on drawings.
 - For columns identified for removal and relocation on electrical disconnection drawings the Contractor shall include for the disconnection, break-out and recovery of lighting columns. The Contractor shall ensure sufficient care be taken to protect the columns and equipment from damage during break-out, extraction, transportation, storage and re-erection. The Contractor shall make good any damage to surface finishes using an approved paint strategy and process. Prior to removal of columns, the contractor shall carefully remove all lighting equipment and accessories and securely store for re-use on the public realm scheme. All columns, lighting equipment and accessories not required to form part of the final installed lighting scheme shall be offered back to HCC Street Scene as spares for future use.
 - Tree uplights shall be mounted within tree pits and set into proprietary mounting sleeves in accordance with the manufacturer's installation instructions and landscape architects details. The Contractor shall install an IP68 rated junction box adjacent to each uplight for final circuits to be connected. The Contractor shall undertake final aiming of the Gimbal LED floodlights to ensure that the tree canopy is lit.
 - The Contractor shall integrate lighting units into the bench construction as detailed on landscape architects drawings. The Contractor shall coordinate with the landscape architect the final development of the bench detail to integrate the requirements of the lighting equipment.
 - Type E1 enclosure to be incorporated into the underside of benches and within planters. The Contractor shall coordinate with the landscape architect the final development of the bench enclosure detail to integrate the electrical requirement. The enclosure shall be sized to accommodate connecting ducts as identified on drawings, an IP65 rated enclosure to contain LED driver/control equipment and a 230V isolator.
 - Type E2 enclosure to be located under benches to contain temporary event power. The Contractor shall coordinate with the landscape architect the final development of the bench enclosure detail to integrate the electrical requirements. The enclosure shall be sized to accommodate connecting ducts as identified on drawings, one number 32A SP&N BS EN 60309 'Commando' Type sockets and local isolator. The Contractor shall insure the enclosure is sufficiently sized and equipment positioned so as to house connected temporary supplies and the door be closed and secured.
 - Type E3 - existing 63A TP&N pop up power supplies to be retained/relocated as identified on drawings. The Contractor shall include for the testing of equipment to be retained prior to relocation of pop-up power location
 - Lanterns in areas 13, 14 and 17 are to be wall mounted on bracket, utilising existing electrical feeds as direct replacement of the existing equipment.
 - Squares to be lit using tall bespoke feature columns incorporating multiple floodlights and artist specified lighting equipment. The floodlight final aiming will require to be undertaken precisely and in the presence of the Lighting Designer, Artist and the Specialist Lighting Control sub-contractor.
 - Details of the Artist installation and requirements will be developed during early Stage 5. Contractor to allow for ducting and cabling of power and data to locations as identified on drawings.
 - The Contractor shall include for the repair and make good of any damage to existing building fabric as a direct result of these works in the removal and/or replacement of building mounted equipment.
 - The Contractor shall carefully remove the RGB final and control gear from existing lighting columns prior to relocation of columns. Final to be reconnected to relocated column (post-column installation) as identified on drawings and refurbished with new RGB driver unit compatible with the lighting control system as specified within Luminaire Data Sheets.
 - Columns shall contain 1 No. Power Supply for Type T Festoon Lighting.

T2	05/06/15	MP	CW	RB
Issue For Tender				
T1	29/05/15	SM	CW	RB
Issued for Tender				
Issue	Date	By	Chkd	Appd

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Client Hull City Council	Project Title Hull Public Realm	Drawing Title Area 20 and 21 Lighting General Arrangement	Scale at A1 1:250
Role Electrical		Suitability - Issue for Tender	
Arup Job No 239790-00		Rev T2	
Name ARP-20-DR-EL-0001			