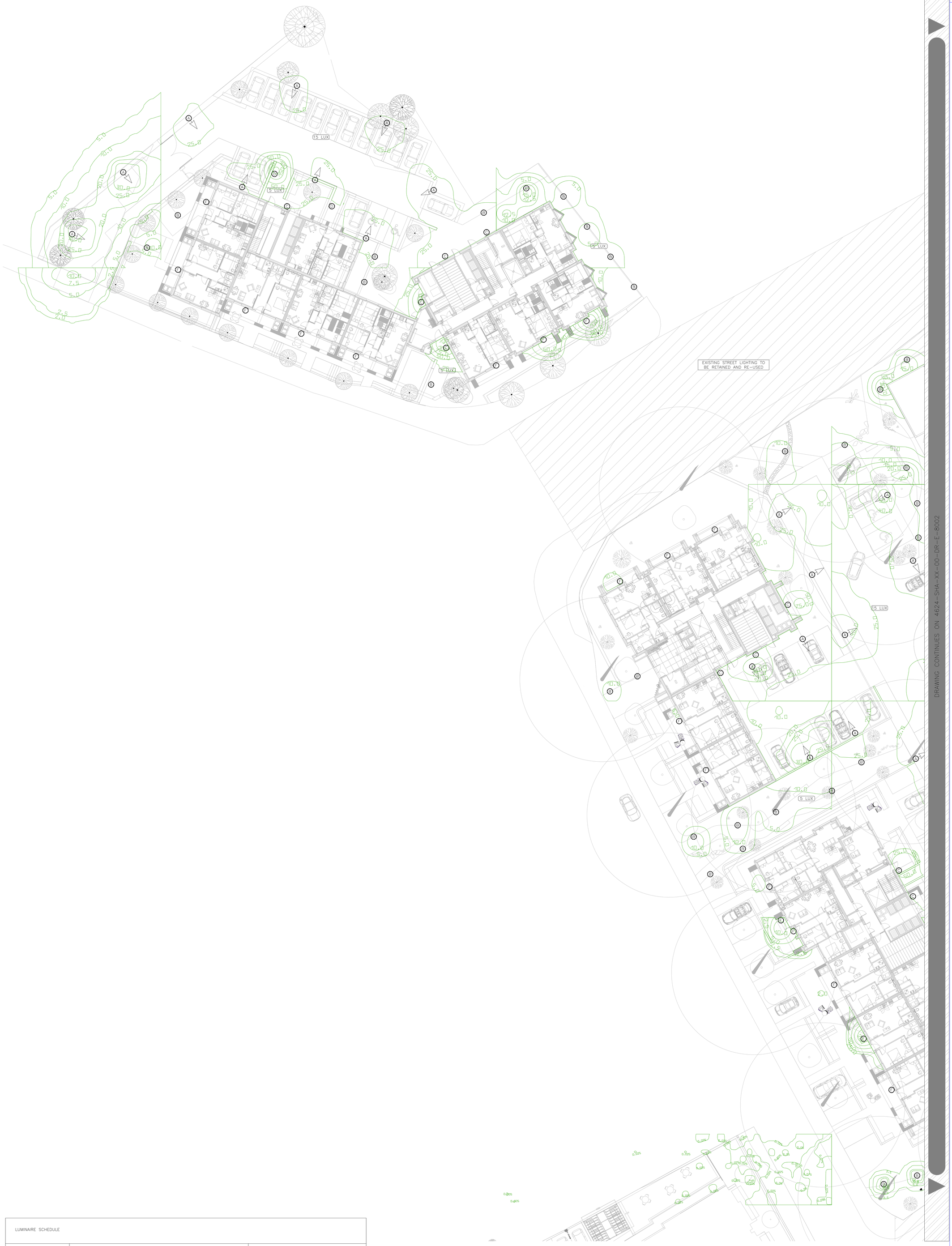


ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT ASK.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION AND ALL OTHER PROJECT DOCUMENTATION.

GENERAL LIGHTING NOTES

1. THIS DRAWING SHALL BE READ IN COLOUR.
2. THIS DRAWING IS PRELIMINARY ONLY.
3. THE ELECTRICAL SUB-CONTRACTOR SHALL PREPARE HIS OWN CONSTRUCTION/WORKING DRAWINGS BASED UPON THIS AND OTHER ARCHITECTURAL AND STRUCTURAL ENGINEERING DRAWINGS.
4. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
5. ALL INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF BS 7671:2018 (18TH IEE EDITION WIRING REGULATIONS).

EXTERNAL LIGHTING NOTES

1. EXACT LOCATION OF LIGHTING COLUMNS SHOULD BE CONFIRMED ON SITE WITH DESIGN TEAM PRIOR TO INSTALLATION.
2. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE TO BE VIEWED BY SITE MEASUREMENT BEFORE STARTING WORK.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CURRENT DRAWINGS ISSUED UNDER THE CONTRACT FOR THE WORKS.
4. THE LOCATIONS OF SERVICES, ACCESS POINTS, TEST POINTS AND EQUIPMENT ON SITE SHALL PROVIDE FOR SAFE COMMISSIONING AND MAINTENANCE IN ACCORDANCE WITH THE CDM REGULATIONS.
5. FINAL LOCATIONS OF ALL EXPOSED ITEMS OF SERVICES EQUIPMENT SHALL BE AGREED ON SITE WITH THE ARCHITECT AND/OR ENGINEER.
6. THIS DRAWING IS VALID ONLY FOR INFORMATION ON ELECTRICAL SERVICES.
7. DRAW PITS ARE TO BE PROVIDED WHERE CABLING IS DUCTED AT EACH COLUMN POSITION, CHANGE OF DIRECTION AND EACH 35M.
8. EXTERNAL LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH BS 12464-2 AND CIBSE SLL GUIDES.

DARK SKY CRITERIA

1. COMPLIANCE WITH THE LOCAL DARK SKY CRITERIA IS TO BE ACHIEVED USING PRECISE LIGHT CONTROL FROM LUMINIARE HEAD/OPTIC.
2. NEW LUMINAIRES INSTALLED SHALL HAVE NO UPWARD LIGHT COMPONENT IN ACCORDANCE WITH DARK SKY COMPLIANCE. THE LOCAL AUTHORITY's DARK SKY POLICY SHALL BE CONSULTED PRIOR TO INSTALLATION OF ANY EXTERNAL LIGHTING.
3. CONTROL OF EXTERNAL LIGHTING SHALL BE VIA TIME CLOCK AND PHOTOCELLS. A MANUAL OVERRIDE FACILITY SHALL ALSO BE PROVIDED.
4. THE FOLLOWING DESIGN PRINCIPLES SHALL BE ADOPTED:
   - 4.1. LIGHT WHAT IS NECESSARY ONLY
   - 4.2. LIGHT THE AREAS WE NEED TO ONLY
   - 4.3. LIGHT ONLY WHEN IT IS NECESSARY
   - 4.4. EXTERNAL LIGHTS AND THEIR LIGHT DISTRIBUTION SHALL BE POSITIONED SO AS TO AVOID LIGHT SPILL INTO THE SKY AND ONTO NEIGHBOURING PROPERTIES.
5. ALL NEW EXTERNAL LIGHT FITTINGS FOR SIGNS AND UPLIGHTING HAVE A LUMINOUS EFFICACY OF AT LEAST 60 LAMP LUMENS/CIRCUITWATT WHEN THE LAMP WATTAGE IS GREATER THAN OR EQUAL TO 25W OR 50 LAMP LUMENS/CIRCUITWATT WHEN THE LAMP WATTAGE IS LESS THAN 25W.
6. EXTERNAL LIGHT FITTINGS ARE TO BE CONTROLLED THROUGH A TIME SWITCH, OR DAYLIGHT SENSOR, TO PREVENT OPERATION DURING DAYLIGHT HOURS. DAYLIGHT SENSOR OVERRIDE ON A MANUALLY SWITCHED LIGHTING CIRCUIT IS ACCEPTABLE.
7. POL4; REDUCTION OF NIGHT TIME LIGHT POLLUTION
8. TO ENSURE THAT EXTERNAL LIGHTING IS CONCENTRATED IN THE APPROPRIATE AREAS AND THAT UPWARD LIGHTING IS MINIMISED, REDUCING UNNECESSARY LIGHT POLLUTION, ENERGY CONSUMPTION AND NUISANCE TO NEIGHBOURING PROPERTIES.

GENERAL DUCTING NOTES

1. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL THE REQUIRED CONTAINMENT AND DUCTING TO FACILITATE THE INSTALLATION AS SUCH, THE CONTRACTORS HALL LIAISE WITH THE APPOINTED SPECIALIST SUB-CONTRACTOR WITH RESPECT TO CONTAINMENT/DUCTING SIZES AND ARRANGEMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL CONFIRM ALL LOCATIONS WITH TO THE APPOINTED SPECIALIST SUB-CONTRACTOR PRIOR TO THE INSTALLATION OF DUCTING.
3. DRAW PITS TO BE PROVIDED WHERE CABLING IS DUCTED AT EACH COLUMN, EQUIPMENT POSITION, CHANGE OF DIRECTION AND EACH 20M.
4. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL THE REQUIRED LV AND ELV SERVICES TO FACILITATE THE INSTALLATION AS SUCH THE CONTRACTOR SHALL LIAISE WITH THE APPOINTED SPECIALIST SUB-CONTRACTOR WITH RESPECT TO POWER SUPPLY AND DATA CONNECTIONS GENERALLY AS INDICATED UPON THIS DRAWINGS.
5. GENERALLY, ALL SERVICES BE RUN WERE POSSIBLE WITHIN A COMMON SERVICES TRENCH.
6. SERVICES SHALL RUN WITHIN SOFT LANDSCAPE WHERE POSSIBLE.
7. LV SERVICES POWER LIGHTING EVCP WIRING SUBMAINS WHERE MECHANICALLY PROTECTED VIA SWA ALL WHERE ROUTED WITHIN SOFT LANDSCAPE MAY BE BURIED DIRECT WITHOUT BEING ENCAPSULATED IN DUCTING.
8. LV SERVICES SHALL BE ENCAPSULATED WITHIN DUCTING WERE ROUTED BELOW HARD STANDING.
9. LV SERVICES POWER LIGHTING EVCP WIRING SUBMAINS WHERE RUN BELOW HARD STANDING MAY BE ROUTED IN SAME DUCTING.
10. ALL BELOW GROUND SERVICES ARE TO BE IN ACCORDANCE WITH NJUG GUIDELINES.

LUMINAIRE SCHEDULE

LUMINAIRE REFERENCE	LUMINAIRE DESCRIPTION	PROPOSED LUMINAIRE
A	0W, 3880lm, 4000K, IP65 AS OMNI SOLAR VENUS PRO 2 STREET LIGHT. LIGHTING CONTROLS TO BE VIA INTEGRAL PHOTOCELL SENSOR & TIMECLOCK. FINAL CONTROL FIGURATION TBC	
B	15W, 1500lm, 4000K, IP65 AS KINGFISHER DECORATIVE BOLLARD LED. LIGHTING CONTROLS TO BE VIA INTEGRAL PHOTOCELL SENSOR & TIMECLOCK. FINAL CONTROL FIGURATION TBC	
C	13.5W, 1542lm, 4000K IP66 AS KINGFISHER WALL MOUNTED QUATRO LED. LIGHTING CONTROLS TO BE VIA INTEGRAL PHOTOCELL SENSOR & TIMECLOCK. FINAL CONTROL FIGURATION TBC	
D	6W, 802lm, 4000K, IP65 AS KINGFISHER WALL MOUNTED SEMITA URBAN WALKWAY OPTIC LRD. LIGHTING CONTROLS TO BE VIA INTEGRAL PHOTOCELL SENSOR & TIMECLOCK. FINAL CONTROL FIGURATION TBC	
F	9W, 800lm, 3000K, IP65 AS DEXTRA WALL MOUNTED OPUS SCONCE LED. LIGHTING CONTROLS TO BE VIA MANUAL ON/OFF SWITCHED INSIDE OF DWELLINGS. FINAL CONTROL FIGURATION TBC	

01 8000 TYPICAL INCOMING SERVICES DEPTHS
INCOMING SERVICES LAYOUT 1:50



Revision	Date	Description
P1	22.05.26	PRELIMINARY ISSUE

Client & Site
JIGSAW HOMES
VARLEY STREET MASTERPLAN
MANCHESTER

Title
PROPOSED EXTERNAL SERVICES
SHEET 1 OF 2

GROUND FLOOR

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