

NOTES:-

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. CONTRACTOR TO REFER TO ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
4. COWLS TO BE INCLUDED IN SITE LIGHTING SO AS NOT TO INTERFERE WITH PASSING TRAFFIC OR CAUSE ANY GLARE OR ADDITIONAL LIGHT SPILL TO ADJOINING RESIDENTIAL PROPERTY.
5. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.
6. ALL EXTERNAL LIGHTING ZONES ARE TO BE WIRED THROUGH A TIMECLOCK PHOTOCELL AND OVERIDE SWITCH AT THE MAIN DISTRIBUTION BOARD AND SHALL BE CONNECTED TO THE INTRUDER ALARM.
7. THE EXTERNAL SITE LIGHTING WILL BE DESIGNED IN ACCORDANCE WITH BS 5489:2013 AND EN 13201-1:2013. THESE STANDARDS WILL GUIDE THE LIGHTING DESIGN TO ACHIEVE APPROPRIATE ILLUMINATION LEVELS, ENERGY EFFICIENCY, AND SAFETY FOR ALL USERS.

DUCTING LEGEND:

- CHAMBER 450mm x 450mm SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR
- CHAMBER 615mm x 615mm SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR
- ACCESS CHAMBER FOR POWER SUPPLY 960 mm X 675 mm

- PROPOSED DUCTING ROUTE FOR EIR SERVICES FROM ROAD TO TRANSFORMER
- PROPOSED DUCTING ROUTE FOR ELECTRICAL POWER SERVICES SUPPLY TO SUB AND ESB SERVICES
- PROPOSED MAIN ROUTE FOR LOW VOLTAGE SERVICES
- EXTERNAL CAR CHARGING STATION DUCTWORK TO BE BURIED. 100mmØ DUCTWORK TO BE BURIED.
- EXTERNAL LIGHTING DUCTWORK TO BE BURIED. 100mmØ DUCTWORK TO BE BURIED.
- INCOMING GAS PIPEWORK

EV CHARGER MINI PILLAR C/W 960x875mm ACCESS CHAMBER  
INSTALLATION OF SUITABLE DISTRIBUTION BOARD TO ALLOW LOAD BALANCING TO SERVE CAR CHARGING STATIONS REQUIRED WITHIN THE MINI PILLAR. SUITABLE POWER AND SCREENED DATA CABLE TO SERVE EACH POINT. MINI PILLAR WILL BE INSTALLED ON PREFABRICATED VAULT FROM APPROVED SUPPLIER AND INSTALLED IN ACCORDANCE WITH ESB GUIDE LINES. CONTRACTOR TO COMPLY WITH SEPARATION DISTANCE FROM SUB STATION AND ESB MINI PILLAR.

1 NO. DUAL FREE STANDING UNIT, GARO L54 CAR CHARGING STATIONS, TYPE 2 CONNECTION FROM 3.7kW TO 22kW (3x 32A 3 PHASE) EV CAR CHARGING STATION WITH MID CERTIFIED METER TO BE INSTALLED ON FINISHED SURFACE. NEW 100mmØ DUCT FROM MINI PILLAR TO PROPOSED CHARGING STATION LOCATION. EACH UNIT SHOULD BE 'TAP & CHARGE STYLE' WITH 4 G, W-FI AND LAN SUPPORT PLUS COMPATIBLE WITH EASY GO SOFTWARE AND A DYNAMIC LOAD MANAGEMENT (DLM) MUST BE ACTIVE IN THE UNIT.

FIXED CCTV CAMERA LOCATION AND ORIENTATION. EXTERNAL CAMERAS TO BE SMP 2048X1536 IMAGE RESOLUTION COLOUR BY DAY, BLACK AND WHITE BY NIGHT WITH VARIOFALC AUTO IRS LENS 2-12MM WITH INFRARED LED. 12V SUPPLY CABLE WIRED BACK INDIVIDUALLY TO 24WAY HARD DISK DIGITAL RECORDER IN COMMS ROOM

6M CCTV POLE

LOW VOLTAGE SERVICES:

1 NO. 100mm Ø DUCTS FOR LOW VOLTAGE SERVICES (BLUE IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM) AND COMPACTED CL 804 BACK FILL MATERIAL.

POWER SERVICES:

1 NO. 100mm Ø DUCTS (RED IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL.

LOW VOLTAGE SERVICES:

1 NO. 100mm Ø DUCTS FOR LOW VOLTAGE SERVICES (BLUE IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM) AND COMPACTED CL 804 BACK FILL MATERIAL.

POWER SERVICES:

1 NO. 100mm Ø DUCTS (RED IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL.

ESB POWER SERVICES FROM TRANSFORMER TO EACH APARTMENT BLOCK:

3 NO. 125mm Ø DUCTS (RED IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL

EV POWER SERVICES:

1 NO. 100mm Ø DUCTS (RED IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL

ESB 3m X 3m BASE PLINTH TRANSFORMER & C/W SURROUND WALL 3mX3mX2m (LxDxH)

63MM Ø UNDERGROUND GAS SUPPLY PIPE TO BUILDING

INCOMING ESB POWER SERVICES TO SERVE TRANSFORMER:

3 NO. 125mm Ø DUCTS (RED IN COLOUR) LAID ON SAND AND BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL

TELEPHONE SERVICES:

2NO. 100mm Ø DUCTING (BLUE IN COLOUR) BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH CEMENT BOUND GRANULAR MATERIAL (CBGM), AND COMPACTED CL 804 BACK FILL MATERIAL.

Issue	REVISION	DATE	BY	CHKD
P2	ISSUED FOR COMMENT	27.03.2025	MA	JG
P1	ISSUED FOR COMMENT	19.02.2025	NF	JG

Figured dimensions only should be taken from this drawing. All contractors must visit the site and be responsible for taking and checking all dimensions that relate to this work

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Job	GOOD SHEPHERD CONVENT APTS, TURNERS CROSS, CORK
Client	GOOD SHEPHERD CORK
Drawing	MECHANICAL & ELECTRICAL SITE SERVICES

Job No. E24/2708	Scale 1:200@A1	Cad ref 2708_GoodShepherd.dwg
Drw. No. ME1	Date MAR 2025	
Drawn MOHAMMED ALHARTHI		
Checked JOHN GEANEY		

