



- 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 OTHER SERVICE DRAWINGS AND ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
  4. EXTERNAL LIGHTING SHALL BE LINKED TO THE INTRUDER ALARM.
  5. ALL EXTERNAL LIGHTING TO BE WIRED THROUGH PHOTOCELL, TIMECLOCK AND OVER-RIDE SWITCH AT THE MAIN DISTRIBUTION BOARD AND ZONED AS INDICATED.
  6. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.

CONTRACTOR TO COMPLY WITH AND INSTALL TO THE NEW NATIONAL RULES AND REGULATIONS FOR ELECTRICAL INSTALLATIONS I.S. 10101:2020

EXISTING UNDERGROUND TELECOMS DUCT TO BE DIVERTED TO AVOID FOOTPRINT OF NEW EXTENSION

POWER SERVICES:  
1 NO. 125mm Ø DUCTING (RED IN COLOUR) BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH PEA GRAVEL.

TELEPHONE SERVICES:  
1 NO. 125mm Ø DUCTING (BLUE IN COLOR) BURIED AT 750mm AND SUITABLY MARKED AND BACK FILLED WITH PEA GRAVEL.

EXISTING UNDERGROUND EIR DUCT TO BE DIVERTED TO AVOID FOOTPRINT OF NEW EXTENSION

3800mm FOOT & CYCLE PATH

EXISTING DUCTING ROUTE TO BE REMOVE

3 NO. POWER EXISTING

EXISTENT LOW VOLTAGE SERVICES

PROPOSED EXTENSION

Proposed location of 12 NO. PV Panels to MONO PITCH STANDING SEAM ROOF.

LOCATION OF EXISTING BOILER ROOM

SET DOWN

SET DOWN

EXISTING ESB METER ROOM

LOCATION OF EXISTING COLD WATER STORAGE TANK ON UPPER LEVEL

POWER DUCT AND FULLY INSULATED

EXISTING SCHOOL

POWER SERVICES AT HIGH LEVEL

**DUCTING LEGEND:**

- CHAMBER 350mm x 350mm SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR
- CHAMBER 600mm x 600mm SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR
- FIXED CCTV CAMERA LOCATION AND ORIENTATION - LOCATED OVER ENTRANCE DOOR. EXTERNAL CAMERAS TO BE 2048X1536 IMAGE RESOLUTION COLOUR BY DAY, BLACK AND WHITE BY NIGHT WITH VARIOFOCAL AUTO IRS LENS 2-12MM. WITH INFRARED LED. 12V SUPPLY CAT5A WIRED BACK INDIVIDUALLY TO 128-WAY HARD DISK DIGITAL RECORDER IN COMMS ROOM
- EXISTENT CHAMBER
- PROPOSED DUCTING ROUTE FOR EIR SERVICES FROM ROAD TO SWITCH ROOM
- EXISTING DUCTING ROUTE TO BE REMOVE
- PROPOSED MAIN INDEX ROUTE LOW VOLTAGE SERVICES
- PROPOSED EXTERNAL CAR CHARGING STATION DUCTWORK TO BE BURIED. 125mmØ DUCTWORK TO BE BURIED.
- EXISTING DUCTING ROUTE
- CHAMBER FOR EIRCOM 615mm X 615mm

**MINI PILLAR AND ACCESS CHAMBER.**  
INSTALLATION OF DISTRIBUTION BOARD TO SERVE CAR CHARGING STATION REQUIRED WITHIN THE MINI PILLAR.  
THE REQUIRED CABLE FROM THE ELECTRICAL ROOM TO THE MINI PILLAR, THE CABLE IS WIRED TO A BOARD IN THE ELECTRICAL ROOM, THE RCBO IS LOCKED OFF AND THE KEY IS HELD BY BUILDING ADMINISTRATOR ON SITE. THE CAR CHARGING POINT INSTALLERS ARE TO CONNECT AT THIS LOCATION.

**INCH DUO CHARGING STATION** 2 x 22kW (3 x 32A 3 PHASE) EV CAR CHARGING STATION TO BE INSTALLED ON FINISHED SURFACE.  
NEW DUCT FROM MINI PILLAR TO PROPOSED CHARGING STATION LOCATION COMMUNICATION ETHERNET, WI-FI, 4G LTE

**FUTURE EV CAR CHARGING STATION**  
DUCT FROM MINI PILLAR (ONLY) TO PROPOSED CHARGING STATION LOCATION

**JUNCTION BOX JB36** 800 x 800

**LIGHTING & POWER SERVICES LEGEND:**

- A- PHILIPS LUMISTREET GEN2 BGP291 T25 LED60-4S/730 DW10 4500LM CLO NW 3000 COLOR TEMPERATURE 30W. EXISTING 6 METER COLUMN TO DUBLIN COUNTY COUNCIL STANDARDS
- B- PHILIPS LUMISTREET GEN2 BGP291 T25 LED60-4S/730 DW10 4500LM CLO NW 3000 COLOR TEMPERATURE 30W. EXISTING 6 METER COLUMN TO DUBLIN COUNTY COUNCIL STANDARDS
- C/W WEST RE PHOTOCELL, ALL PHOTOCELLS SHOULD HAVE 8480 35/18LUX RAT D SW ICH NG UT L2 NG A GREEN COLOR CODE TO VISUALLY IDENTIFY THE SW ICH NG REG ME AND INCLUDE A 7 P N SOCKET FOR A 3 P N PHOTOCELL.
- C/W WEST RE PHOTOCELL, ALL PHOTOCELLS SHOULD HAVE 8480 35/18LUX RAT D SW ICH NG UT L2 NG A GREEN COLOR CODE TO VISUALLY IDENTIFY THE SW ICH NG REG ME AND INCLUDE A 7 P N SOCKET FOR A 3 P N PHOTOCELL.
- EXISTING LIGHTING

Issue	REVISION	DATE	BY	CHKD.
P2	RE ISSUED FOR PRELIMINARY STAGE 2A	16 DEC'22	SI	DCM
P1	ISSUED FOR PRELIMINARY STAGE 2A	15 DEC'22	SI	DCM

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.

**Matt O'Mahony & Associates Ltd.**  
Engineering and Project Consultants.  
8 Sidney Place, Wellington Rd., Cork  
TEL: (021) 4506884 FAX: (021) 4509798  
EMAIL: email@mattomahony.ie

Job	ESKER ETNS, LUCAN, CO. DUBLIN
Client	BOARD OF MANAGEMENT
Drawing	ELECTRICAL SITE SERVICES

Job No.	E21/2314	Scale	1:200BA1	Cad ref.	2314_ESKERETNS.dwg
Drawn	E12	Date	DEC 2022		
Checked	SI				

