

David Lloyd Leisure, Bicester Car Charging Provision

October 2020

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REV	DESCRIPTION	PREPARED BY	DATE
Issue No. 1	First Issue	J G McInnes	Oct 2020

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1.0 Proposal

To comply with the planning conditions for electrical vehicle charging provisions, it is intended to provide the following infrastructure within the current project.

- Installation of 3 twin 7kW chargers
- Installation of ducting to facilitate a further 3 twin chargers in the future.

The initial build will provide the critical 2 twin charging points with provision for ducts to suit 3 further twin stations - refer to drawing 41602(62)101.

2.0 Single Outlet

The Pod Point Solo Charger - Commercial is a single vehicle charging charger designed for commercial purposes only. The Solo Charger is available in a universal socketed model only. The Solo is available in a variety of charging rates.

Speed category	Fast Charging
Charging rates (s)	3.6, 7, 22kW
Product family	Solo



Single vehicle charging



Wi-Fi enabled



3 Year warranty



Smart Reporting & Pod Point Network enabled







Socketed Solo

3.0 Twin Outlet

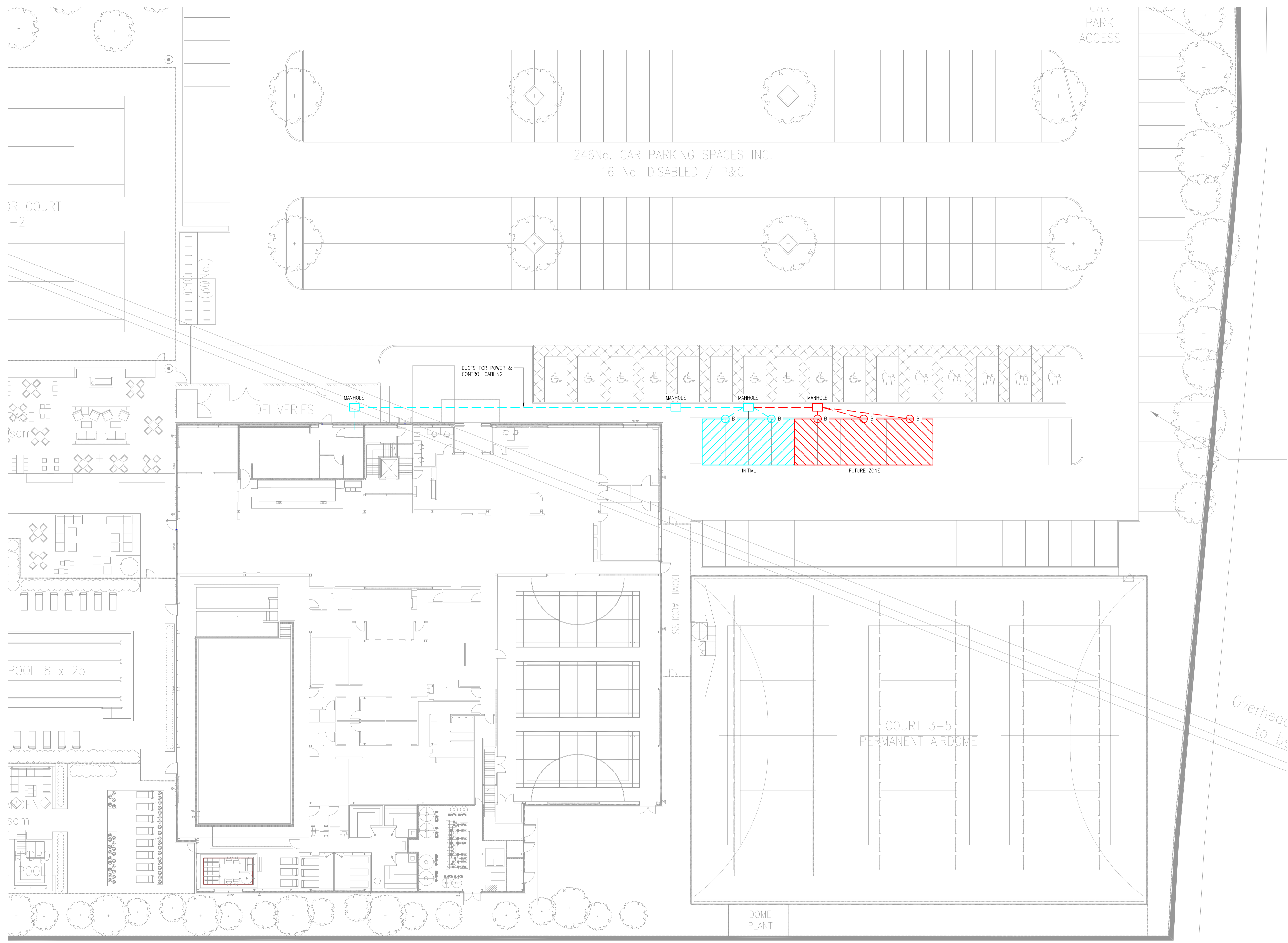
The Pod Point Twin Charger is a dual Type 2 socketed vehicle charger suitable for commercial and public installations. The twin charger is available for both single and 3 phase electrical supplies and is compliant with a pay as you go charging system for drivers. Every twin charger includes and ships with a surface mount foundation plate.

Speed category	Fast Charging
Charging speed (s)	3.6kW, 7kW, 11kW & 22kW
Product family	Twin

-  Dual vehicle charging
-  Wi-Fi & 3G/4G enabled*
-  3 Year Warranty
-  Smart Reporting & Pod Point Network enabled



Surface Mount Foundation attached



- NOTES**
- A. SINGLE 7KW MODE 3 CHARGER c/w SINGLE TYPE 2 SOCKET RATED AT 32A.
 - B. TWIN 7KW MODE 3 CHARGER c/w TWO TYPE 2 SOCKETS RATED AT 32A EACH.
 - MANHOLES AND DUCTING SIZES TO BE DETERMINED BY CONTRACTOR.
 - ALL CHARGERS TO BE SUPERVISED BY A CENTRAL CONTROL SYSTEM ENSURING MAXIMUM POWER AVAILABILITY TO ALL USERS AND SECURITY OF SYSTEM BY DAVID LLOYD LEISURE.
 - ALL DUCTING TO BE INSTALLED DURING THE CONSTRUCTION OF THE CLUB.
 - THE GREEN CHARGERS WILL BE CABLED AND INSTALLED AT A FUTURE DATE TO SUIT DEMAND.

LEGEND

- 4No INSTALLED
- 6No FUTURE INSTALL (DUCTS)

07/10/20	PRELIMINARY ISSUE	P1	GM
Date	Description	Rev	By

Revision Description



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Project:
DLL BICESTER

Drawing Title:
SITE PLAN
CAR CHARGING PROPOSAL
10No TOTAL

Drawing Number:
41602(62)101

Revision: P1
Date: 07/10/2020
Scale: 1:200
Drawn By: GM
CAD Dwg File: 41602(62)101.dwg
Arch. Base Dwg:

Issue Status:
PRELIMINARY

4.0 **Common Features**

4.1 **Physical Properties**

Socket type	Universal Type 2
Socket height	1000mm
Enclosure rating	IP54 Mennekes Socket

4.2 **Power**

Charge protocol	Mode 3
Rated frequency	50 Hz
Over-current protection	Internal (dynamic)
RCD protection	Internal 30mA resettable (per socket)**
DC vehicle fault protection	Internal 6mA DC (per socket) (BS7671:2018)
RCD protection (main unit)	Internal 100mA (time delayed)
Upstream RCD protection	Optional
Standby power consumption	8 Watts max

4.3 **Standards and Compliance**

Socket compliance	IEC62196-2:2016 (with lock and lock status)
Standards compliance	<ul style="list-style-type: none"> • LVD 2014/35/EU • EMCD 2014/30/EU • EN61851-1 and -22 • IEC62196-2:2016 • CE Certified

The Pod car vehicle chargers are already installed across the David Lloyd Leisure estate.

5.0 **Layout Drawing**

Refer to the site layout drawing 41602(62)101 for details of the proposed ducting and vehicle charging station layouts.

6.0 **Impact on Utility Infrastructure**

The car charging provision will add additional electrical load to the building to support the charging provision.

The initial two twin chargers are included within the base build allowance for a new club. The addition of three twin chargers at 7kW will add 40kW to the building load without restriction.