
STORMWATER MEMO

Date: September 1, 2022
Re: Dublin Astra at AWS Data Center Campus
Attn: City of Dublin Stormwater
From: James Whitacre, P.E.

Amazon Data Services proposes to construct two new antenna sites on the existing data center campus at Crosby Court. The overall stormwater management plan for the site was approved with the first building 2015. Based on this overall report the project was assigned a post-developed curve number of 88. The total onsite drainage area going to the existing stormwater basins was 67.5 acres. Based on the calculation below the proposed impervious area for the project as 39.5 acres or 1,720,620 square feet.

$$\mathbf{Cn = (39.5*98 + 28.0*74) / 67.5 = 88}$$

The campus is currently built out with 5 buildings, two existing Astra units and a substation. The exiting impervious area onsite is 1,639,203 SF (37.631 Ac.)

This new proposal will construct 7,707 SF of impervious area with the access road and 2,808 SF of impervious with the Astra units. The total new impervious area on the site will be 1,649,718 SF (37.872 Ac.).

The additional imperious are proposed with this project still falls under the overall impervious area permitted with the master Stormwater Plan approved with Building #1.