

DOCKETED

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Digital Realty

651 Walsh Ave, Santa Clara, CA

651 Walsh Ave

April 26th, 2019- PCC Resubmission - 4



PROJECT DIRECTORY

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PROJECT INFORMATION

CONSTRUCTION OF A NEW 4-STORY BUILDING FOR A DATA CENTER CONSISTING OF A LOBBY, TOILET ROOMS, A SHOWER, OFFICES, SECURITY ROOM, CONFERENCE ROOMS, BREAK-ROOM AREA, POP ROOMS, PRE-ACTION, LOADING AREA & STORAGE. EXTERIOR WORK INCLUDES SCREENED GENERATOR YARD, SUBSTATION YARD, PARKING LOT, LANDSCAPING, SITE DRAINAGE SYSTEM AND LOADING DOCK.

PROJECT: DIGITAL REALTY (651 WALSH AVE)
BUILDING ADDRESS: 651 WALSH AVE, SANTA CLARA, CA 95050
NUMBER OF STORIES: 4 STORIES ABOVE GROUND, LESS THAN 87.5 FEET IN HEIGHT
OCCUPANCY USE GROUP: B - BUSINESS, S-2 - Low Hazard Storage
CONSTRUCTION TYPE: TYPE II B, FULLY SPRINKLERED, CBC 602.2

BUILDING AREA -
 FIRST FLOOR AREA : 113,325 SF
 MEZZANINE FLOOR AREA : 17,925 SF
 SECOND FLOOR AREA : 113,000 SF
 THIRD FLOOR AREA : 95,400 SF
 FORTH FLOOR AREA : 95,400 SF
 4 STORIES BUILDING : 435,050 SF

SITE AREA: 7.87 ACRES (342,817 SF)
BUILDING COVERAGE : 33%

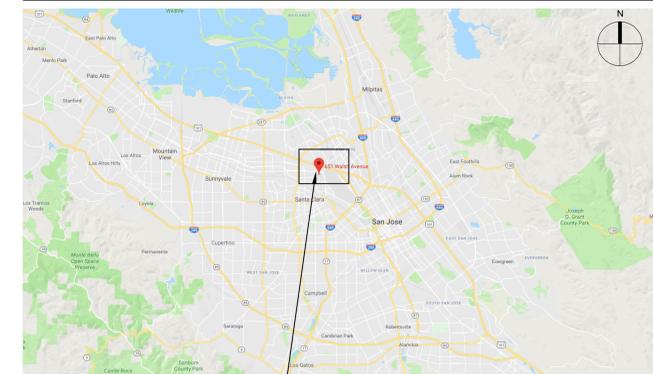
ADOPTED CODES:

2016 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS
 2016 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS
 2016 CALIFORNIA PLUMBING CODE AND LOCAL AMENDMENTS
 2016 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS
 2014 NATIONAL ELECTRICAL SAFETY CODE-ANSI/IEEE C2
 2016 CALIFORNIA ELECTRICAL CODE
 2013 NATIONAL FIRE ALARM CODE-NFPA 72
 2016 CALIFORNIA BUILDING CODE, TITLE 24 AND CHAPTER 11B ACCESSIBILITY
 2016 CALIFORNIA HISTORICAL BUILDING CODE
 2016 CALIFORNIA ENERGY CODE (TITLE 24)
 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
 2016 CALIFORNIA EXISTING BUILDING CODE

PROPOSED HVAC SYSTEM:

THE FOUR STORY DATA CENTER PORTION OF THE BUILDING CONTAINS 13 MW OF IT EQUIPMENT PER FLOOR, OR 52 MW TOTAL. THIS IT PROCESS LOAD WILL REQUIRE A TOTAL OF 16,000 TONS OF COOLING. THESE SYSTEMS WILL BE DESIGNED TO MEET THE REQUIREMENTS OF TITLE 24 - SECTION 140.9 - PRESCRIPTIVE REQUIREMENTS FOR COVERED PROCESSES. THERE ARE NO LIMITATIONS ON AIR COOLED EQUIPMENT UNDER SECTION 140.9 AND WE INTEND TO USE A COMBINATION OF AIR COOLED DX AND AIR COOLED CHILLED WATER EQUIPMENT TO SERVE THE LOAD. TITLE 24 SECTION 140.9 REQUIRES ECONOMIZERS AND HOT/COLD AISLE CONTAINMENT. WE PLAN ON USING HOT/COLD AISLE CONTAINMENT AND DESIGNING THE EQUIPMENT SO THAT THE COMPRESSORS ARE NOT NEEDED TO MEET THE LOAD AT THE PRESCRIBED ECONOMIZING TEMPERATURES. AIR DISTRIBUTION WILL BE FROM DOWN DISCHARGE CRAC AND CRAH UNITS SERVING UNDERFLOOR PLENUMS. THE CEILING WILL FORM A RETURN AIR PLENUM BACK TO THE UNITS. ALL SPECIAL DATA CENTER EQUIPMENT WILL BE CERTIFIED BY TITLE 24 FOR COMPLIANCE WITH THE CODE. THE OUTSIDE AIR AND BUILDING PRESSURIZATION REQUIREMENTS WILL BE MET BY 100 DEDICATED OUTSIDE AIR SYSTEMS (DOAS). THESE SYSTEMS WILL BE ROOF MOUNTED. THE OFFICE AREA WILL BE DESIGNED TO MEET THE REQUIREMENTS OF TITLE 24 SECTION 140.4. THE THREE STORY OFFICE AREA WILL BE SERVED BY HIGH EFFICIENCY ROOF TOP UNITS WITH AIR ECONOMIZERS. OUTSIDE AIR WILL BE BROUGHT THROUGH THE ROOF TOP UNITS. RESTROOM AND BREAKROOM EXHAUST WILL BE ROUTED TO ROOF MOUNTED FANS. AIR DISTRIBUTION WILL BE THROUGH MULTIZONE VAV SYSTEMS.

LOCATION



SITE: 651 WALSH

