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2.1 OVERVIEW OF PROPOSED GENERATING FACILITIES

LBGF will be a backup generating facility with a generation capacity of up to 99.8 MW to support the need for the LDC to provide uninterruptible power supply for its tenant's servers. The LBGF will consist of 44 diesel-fired backup generators arranged in a generation yard located on the south side of the LDC. Project elements will also include switchgear and distribution cabling to interconnect the generators to their respective portion of the buildings.

2.2 GENERATING FACILITY DESCRIPTION, CONSTRUCTION AND OPERATION

2.2.1 Site Description

The proposed LDC site encompasses approximately 15.45 acres and is located at 2825 Lafayette Street in Santa Clara, California, APN 224-04-093. <u>There are currently two legal parcels within the project site, the northern 13.04-acre parcel located at 2825 and 2845 Lafayette Street and the southern 9.72-acre parcel located at 2805 Lafayette Street. A lot line adjustment is proposed for this project to create an expanded 15.45-acre parcel at 2825 Lafayette Street and a smaller 7.31-acre parcel at 2805 Lafayette Street.</u>

The property is zoned Heavy Industrial. The site is currently developed with two two-story office buildings and associated paved parking and loading dock areas. The total area of the existing office buildings is approximately 326,000 square feet. The existing buildings consist of a mix of architectural styles and materials, including corrugated metal siding, wood, and stucco. The building facades are a mix of materials and architectural styles, including corrugated metal siding, wood and stucco. The project site encompasses a portion of 2805 Lafayette Street, APN 224-04-094, where a substation would be constructed as part of the LDC. There is an existing data center building at 2805 Lafayette Street that is separate from the proposed project.

The two-story office buildings at 2825 and 2845 Lafayette Street would be demolished. The address for the new building of the proposed project would be 2825 Lafayette Street. The main entrance to the 2845 Lafayette Street building is located on north side of the building facing Central Expressway, with a secondary entrance on the west side of the building facing Lafayette Street. The main entrance to the 2825 Lafayette Street building is located on east side of the building facing the railroad tracks, with a secondary entrance on the north side of the building facing Central Expressway.

A raised concrete loading dock is located on west side of the 2845 Lafayette Street building and on the south side of the 2825 Lafayette Street building. The load docks adjoin the paved driveways and paved parking arounds on the west and north side of the 2845 Lafayette Street building and on the north, east, and south side of the 2825 Lafayette Street building. The 2825 and 2845 Lafayette Street buildings share private drive lines and access to Lafayette Street.

Non-native trees and ornamental landscaping are located along the Lafayette Street frontage of the property, as well as the northern, western, and southern property boundaries. The project proposes to demolish the existing shrubs and groundcovers on the site, while protecting-in-place trees not in

conflict with proposed utilities, grading, stormwater treatment facilities, and architectural improvements.

The property is bound to the North by Central Expressway, to the South by 2403 Walsh Avenue and a pair of buildings with different industrial uses, to the East by the Union Pacific Railroad (UPRR) rail line, and to the West by Lafayette Street. The project area consists primarily of industrial land uses. Buildings in the area are similar in height and scale to the existing building on the project site. The Norman Y. Mineta San José International Airport is located approximately 0.3 miles east of the site.

2.2.2 General Site Arrangement and Layout

The 45 backup generators (44 for the data center suites, one for the PBB) will be located at the site in a generation yard adjacent to the south side of the LDC building. Figure 2-4.1 shows the general arrangement and site layout of the LBGF within the LDC site. The PBB generator will be solely connected to the administrative portion of the building located on the LDC building to the west side of the generation yard and at the northeast corner of the LDC.

Each backup generator is a fully independent package system with dedicated fuel tanks located on a skid below the generator. The generation yard will be electrically connected to the LDC building through combination of underground and above ground cable bus to a location within the building that houses electrical distribution equipment.

2.2.3 Generating Capacity

2.2.3.1 Overview

In order to determine the generating capacity of the LBGF, it is important to consider and incorporate the following critical and determinative facts.

- 1. The LBGF uses internal combustion engines and not turbines.
- 2. The LBGF internal combustion engines have a peak rating and a continuous rating.
- 3. The LBGF through software technology and electronic devices is controlled exclusively by the (LDC).
- 4. The LBGF has been designed with 11 systems with a 4-to-make-3 redundancy as described in Section 2.2.3.2
- 5. There is a total of 11 data center generators which are redundant.
- 6. The LBGF will only be operated for maintenance, testing and during emergency utility power outages.
- 7. The LBGF will only operate at a load equal to the demand by the LDC during an emergency utility outage.
- 8. The LBGF is only interconnected to the LDC and is not interconnected to the transmission or distribution grid.

2.2.3.2 Generating Capacity and PUE

Based on the methodology recently adopted by the Commission's Final Decisions Granting a SPPEs for the McLaren Backup Generating Facility and the Laurelwood Data Center, the maximum generating capacity of the LBGF is determined by the maximum of capacity of the load being served.

The design demand of the LDC, which the LBGF has been designed to reliably supply with redundant components during an emergency, is based on the maximum critical IT load and maximum mechanical cooling electrical load occurring during the hottest hour in the last 50 years. Such conditions are possible but extremely unlikely to ever occur. The LDC load on that worst-case day is 99.8 MW, based on 99.0 MW of load in the data center suites and 0.8 MW of load in the PBB.

As described in Section 2.2.4, there are eleven data center suites, each with four 3.0 MW (3,000 kW) generators serving each suite. Only three of the four generators are counted towards the overall capacity of the building, since the system is designed for one generator in each four-generator data center suites to be taken out of service at any moment in time (called '4-to-make-3').

Summary LBGF Calculation:

- 11 Data Center Suites x (3 Generators x 3.0 MW per Generator) = 99.0 MW
- 1 Admin/PBB System x 1 Generator x 1.0 MW per Generator x 0.8 Load Factor = 0.8 MW
- Total LBGF Load: 99.0 MW + 0.8 MW = 99.8 MW

It is important to understand that while the LDC will be designed to accommodate the full IT equipment load of the building, it is Digital Realty's experience that the customers that lease data center space from Digital Realty do not utilize the entire load identified in their lease. This typically results in Digital Realty data center demand loads between 50 and 60 percent. Therefore, a fully leased 99.8 MW data would only be expected to reach a demand load around 60 MW.

The data center industry utilizes a factor called the Power Utilization Efficiency Factor (PUE) to estimate the efficiency of its data centers. The PUE is calculated by dividing the total demand of the data center by the Critical IT load. The theoretical peak PUE for the Worst Day Calculation would be 1.50 (Total 99.0 MW demand of Building on Worst Case Day divided by 66.0 MW Total Critical IT Load). The annual PUE would be 1.42 (Total 93.8 MW demand of Building average conditions divided by 66.0 MW Design Critical IT Load). These PUE estimates are based on design assumptions and represent worst case.

As described above, the expected PUE is much lower because the Critical IT that is leased by clients is rarely fully utilized. Digital Realty's experience with operation of other data centers is that the actual PUE will be closer to 1.30.

2.2.4 Backup Electrical System Design

2.2.4.1 Overview

There will be eleven data center suites in the LDC. Each data center suite will be designed to handle 6.0 MW (megawatts) of IT equipment load. The total load of each data center suite will be 9.0 MW which includes the IT equipment load, mechanical equipment to cool the IT equipment load, lighting and data center monitoring equipment. The sum of the eleven data center suite will result in 66.0 MW of IT equipment load and 99.0 of total electrical load.

The load in each data center suite will be served by four electrical "capacity groups" with each electrical capacity group sized at 3.0 MW (3,000 kW) of total power. An electrical capacity group consists of one 3,000 kW generator, one 3,000 kW 12kV-480V medium voltage transformer, one 4,000 ampere 480 volt service switchboard and a 2,000 kW uninterruptible power supply (UPS) system.

The IT equipment will have dual cords that will take power from two different capacity groups. The dual cords are designed to evenly draw power from both cords when power is available on both cords, and automatically draw all of its power from a single cord when power becomes un-available on the other cord.

The data center suite will be designed to continue supporting all of the IT equipment load in the suite when one of the four capacity groups is either scheduled to be out-of-service for maintenance or becomes un-available due to equipment failure. Therefore, the 12.0 MW of total power installed for each data center suite effectively provides only 9.0 MW of total power.

The dual corded IT equipment load gets power from two different capacity groups. Six different cord configurations are used to evenly balance the loads between these pairs of capacity groups: A-B, A-C, A-D, B-C, B-D and C-D.

As an example of the electrical system design, when electrical capacity group A becomes unavailable, the IT equipment connected to the A and B electrical capacity group will automatically shift its entire load to the B electrical capacity group. IT equipment connected between the A-C and A-D electrical capacity groups also performs a similar power transfer in the event of an A capacity group failure.

As part of the electrical design, the IT equipment load that started on electrical capacity group A is evenly transferred to the B capacity group (750 kW), C capacity group (750 kW) and D capacity group (750 kW). To allow for this power transfer, each electrical capacity group can only be loaded to 75 percent (2,250 kW of the 3,000 kW electrical capacity group capacity).

The electrical load on each electrical capacity group is monitored by the building automation system. When the any of the electrical capacity groups reach 67.5 percent loaded (based on 90 percent of the 75 percent maximum loading under normal operation), an alarm is activated in the engineering office. The operations staff will work with the tenants to ensure that the leased power levels are not exceeded.

The consequence of electrical capacity groups exceeding 75 percent loaded could lead to dropping IT equipment when coupled with a capacity group failure event. If all the capacity groups serving a data center suite (four capacity groups) are loaded over 75 percent and an electrical capacity group fails, the resulting load transferring to the three available capacity group would exceed the rating of the capacity groups and would lead to over-current protection devices tripping open due to the overload condition. Therefore, it is vital to the reliability of the data center to make sure that all capacity groups remain below 75 percent loaded.

2.2.4.2 Utility-to-Generator Transfer Control Components and Logic

In an outdoor rated switchboard located next to the Generator Alternator, there will be a Load Disconnect Breaker that is Normally Closed while the generator is both in and out of operation. From that load disconnect, 480V rated power cable bus, rated for the full ampacity output rating of the generator, will traverse from the generator to a Generator Switchboard, and then into the data center facility terminating on a dedicated Main Generator Input Breaker.

The generator switchboard includes a load bank breaker, allowing each generator to be individually connected to a load bank for periodic maintenance and testing. This breaker is an electrically operated breaker that is normally open when the generator is not in operation, and the Main Switchboard has not requested generator power.

This Generator Main Breaker is electrically interlocked with an adjacent Utility Transformer Main Breaker to allow only one of the Breakers to closed at any time. Upon the loss of utility power, the PLC transfer controller will send a start signal to the generator, followed by the Utility Breaker opening, followed by a confirmation that the generator has started leading to the Generator Main Breaker being closed.

Once the Generator Main Breaker is closed, the power created from the individual generator is then transmitted to the IT equipment (via a 2.0 MW (2,000 kW) uninterruptable power supply (UPS) system) and mechanical equipment designed to cool the IT equipment load served by the UPS. This load is the same load that the dedicated Utility Transformer was supplying power to prior to the utility interruption. Power from this individual generator cannot be transferred to any other load or system, or anywhere outside the facility.

The uninterruptible power supply (UPS) system includes back-up batteries sized for five minutes of battery back-up time. During the time between a transfer between utility and generator power, the UPS system continues to support the IT equipment load without interruption. During a utility-to-generator transfer, the duration of the power outage between the sources will typically be around 15 seconds; it takes around ten seconds to get the generator started and up to voltage. During a generator-to-utility transfer, the duration of the power outage between the sources will typically be around five seconds.

2.2.4.3 Uninterruptible Power Supply (UPS) System Description

The UPS System and Batteries are part of the LDC and are not part of the LBGF. However, the following description is provided to describe how the UPS system is intended to operate. The UPS will protect the load against surges, sags, under voltage, and voltage fluctuation. The UPS will have

built-in protection against permanent damage to itself and the connected load for all predictable types of malfunctions. The load will be automatically transferred to the bypass line without interruption in the event of an internal UPS malfunction. The status of protective devices will be indicated on a LCD graphic display screen on the front of the UPS. The UPS will operate in the following modes:

- Normal IGBT Rectifier converts AC input power to DC power for the inverter and for charging the batteries. The IGBT inverter supplies clean and stable AC power continuously to the critical load. The UPS Inverter output shall be synchronized with the bypass AC source when the bypass source is within the AC input voltage and frequency specifications.
- Loss of Main Power When Main Power is lost, the battery option shall automatically back up the inverter so there is no interruption of AC power to the critical load.
- Return of Main Power or Generator Power The system shall recover to the Normal Operating Mode and shall cause no disturbance to the critical load while simultaneously recharging the backup battery.
- Transfer to Bypass AC source If the UPS becomes overloaded, or an internal fault is detected, the UPS controls shall automatically transfer the critical load from the inverter output to the bypass AC source without interruption. When the overload or internal warning condition is removed, after a preset "hold" period the UPS will automatically re-transfer the critical load from the bypass to the inverter output without interruption of power to the critical load.
- Maintenance Bypass An optional manual make-before-break maintenance bypass panel may be provided to electrically isolate the UPS for maintenance or test without affecting load operation.

The UPS system batteries will have tab washers mounted on front terminal posts capable of accepting the wiring components of a battery monitoring system. Batteries will have an expected life of ten years. Each battery bank will provide a minimum of five minutes of backup at 100 percent rated inverter load of 1000kW, @ 77°F (25°C), 1.67 end volts per cell, beginning of life.

2.2.5 Generator System Description

Each of the 45 generators for the data center suites will be a Tier-4 standby diesel fired generator equipped with the Miratch system which includes both Selective Catalytic Reduction (SCR) System and diesel particulate filters (DPF). The generators will be Cummins Model C3000 D6e and the PBB Generator will be a Cummins Model DQGAF.

The maximum peak generating capacity of Model C3000 D6e is 3.0 MW for standby applications (short duration operation). Under normal operation will all generators available for use, the maximum load on each generator is designed to be 2.25 MW. The N+1 redundancy of the generator system is designed for one-out-of-four data center suite generators to be taken out-of-service or unexpectedly fail at any given moment in time (called a '4-to-make-3' design).

The maximum peak generating capacity of Model DQFAD is 1.0 MW for standby applications (short duration operation). The load on the generator will be designed to remain below 0.8 MW. Specification sheets for each manufacturer and evidence of the steady state continuous ratings are provided in Appendix A.

Each individual generator will be provided with its own package system. Within that package, the prime mover and alternator will be automatically turned on and off by a utility-generator PLC transfer controller located in the 480-volt main switchboard located within the LDC. Each generator will be controlled by a separate, independent transfer controller. The generator will be turned on if the electrical utility power becomes unavailable and will be turned off after utility power has been restored and the transfer controller has returned the utility to the active source of power serving the computer and mechanical loads within the LDC.

The generator package will integrate a dedicated fuel tank with a capacity of 6,400 gallons. The generators will be placed on a concrete slab. The generators including the enclosure and SCR equipment are approximately 13 feet wide, 50.5 feet long and 30.2 feet high. Each generator will have a stack height of approximately 70 feet. When placed on slab, they will be spaced approximately seven feet apart horizontally. The generator yard will be enclosed with 22 feet high precast concrete screen walls on the south and east ends.

Some of the generators are proposed within a Turning Safety Zone (TSZ) identified of Figure 7 of the Comprehensive Land Use Plan (CLUP) for the Norman Y. Mineta San José International Airport by the Santa Clara County Airport Land Use Commission (ALUC). The TSZ is associated with a smaller runway that has been decommissioned and not been used for a decade. However, the CLUP has not been revised. The CLUP prohibits above ground fuel tanks within the TSZ. Notwithstanding that the designated TSZ is obsolete due to the elimination of the runway it was designed to protect, Digital Realty has ensure that all of the generators within the TSZ are below grade as shown on Figures ESK-01 and E 1.2, TN242558.

2.2.6 Fuel System

The backup generators will use <u>renewable diesel fuel as its primary fuel, with ultra-low sulfur diesel</u> as fuel (<15 parts per million sulfur by weight) <u>used as secondary backup fuel in the event that</u> renewable diesel is unavailable. See PD GHG-1 below.

Each of the 44 generator units serving the data center area will have a 6,400-gallon diesel fuel storage tank with high fuel level at 5,120 gallons. 4,872 gallons are required for 24-hour operation.

The 1.0 MW PBB generator would include a 3,000-gallon diesel fuel storage tank, with high fuel level at 2,400 gallons. 1,728 gallons are required for 24-hour operation.

The 44 x 3.0 MW generators and 1 x 1.0 MW generator would have a combined diesel fuel storage capacity of 284,600 gallons, with fuel tanks filled to high fuel level, total fuel to be onsite estimated at 227,680 gallons to provide 24 hours of emergency generation at full demand of the LDC.

2.2.7 Diesel Exhaust Fluid System

The SCR system will use Diesel Exhaust Fluid (DEF) which will be stored in 500 gallon capacity tanks per generator. A Safety Data Sheet for the DEF is contained in Appendix A. The estimated

shelf life of the DEF is dependent on ambient temperature. For the Santa Clara area the shelf life of the DEF is approximately 12-18 months.

Based on the testing and maintenance schedule Digital Realty does not anticipate the need for replacement of degraded DEF. The replacement strategy is to have the supplier replenish the DEF supply by adding DEF from a bulk tanker to the tank inside the genset enclosure. In the unlikely event that DEF is degraded, the supplier will pump out the tank and haul the degraded DEF for proper disposal. The tank will be refilled with new DEF.

2.2.8 Cooling System

Each generator will be air cooled independently as part of its integrated package and therefore there is no common cooling system for the LBGF.

2.2.9 Water Supply and Use

The LBGF will not require any consumption of water.

2.2.10 Waste Management

The LBGF will not create any waste materials other than minor amounts of solid waste created during construction and maintenance activities.

2.2.11 Hazardous Materials Management

The LBGF will prepare a Spill Prevention, Control and Countermeasure Plan (SPCC) to address the storage, use and delivery of diesel fuel for the generators.

Each generator unit and its integrated fuel tanks have been designed with double walls. The interstitial space between the walls of each tanks is continuously monitored electronically for the existence of liquids. This monitoring system is electronically linked to an alarm system in the engineering office that alerts personnel if a leak is detected. Additionally, the standby generator units are housed within a self-sheltering enclosure that prevents the intrusion of storm water.

Diesel fuel will be delivered on an as-needed basis in a compartmentalized tanker truck with maximum capacity of 8,500 gallons. The tanker truck parks on the access road to the south of the generator yard and extends the fuel fill hose through one of multiple hinged openings in the precast screen wall surrounding the generator equipment yard.

There are no loading/unloading racks or containment for re-fueling events; however, a spill catch basin is located at each fill port for the generators. To prevent a release from entering the storm drain system, storm drains will be temporarily blocked off by the truck driver and/or facility staff during fueling events. Rubber pads or similar devices will be kept in the generation yard to allow quick blockage of the storm sewer drains during fueling events.

To further minimize the potential for diesel fuel to come into contact with stormwater, to the extent feasible, fueling operations will be scheduled at times when storm events are improbable.

Warning signs and/or wheel chocks will be used in the loading and/or unloading areas to prevent vehicles from departing before complete disconnection of flexible or fixed transfer lines. An emergency pump shut-off will be utilized if a pump hose breaks while fueling the tanks. Tanker truck loading and unloading procedures will be posted at the loading and unloading areas.

To meet the Tier 4 emission standards, DEF, which contains urea is used to enable the SCR system to achieve NOx emission reduction. The DEF is required to be stored and managed appropriately. The DEF does not trigger the CalARP Program and therefore neither an offsite consequence analysis nor Risk Management Plan are required. However, proper management and storage include the DEF tank for each generator set will have secondary containment and filling the tank will be performed by the DEF supplier and follow best management practices similar to the use of diesel fuel refilling.

2.2.12 LBGF Project Construction

Construction activities for the LDC are expected to begin in <u>May January 2023</u> and are discussed in more detail in Section 2.3.4. Since the site preparation activities for the LDC will include the ground preparation and grading of the entire LDC site, the only construction activities for the LBGF would involve construction the generation yard. This will include construction of concrete slabs, fencing, installation of underground and above ground conduit and electrical cabling to interconnect to the LDC Building switchgear, construction of the racking system to support the second level of generators, and placement and securing the generators.

The generators themselves will be assembled offsite and delivered to site by truck. Each generator will be placed within the generation yard by a crane.

Construction of the generation yard and placement of the generators is expected to take six months and is included in the overall construction schedule for the LDC described in section 2.3.4. Construction personnel for the LBGF are estimated to range from ten to 15 workers including one crane operator.

2.2.13 LBGF Facility Operation

The backup generators will be run for short periods for testing and maintenance purposes and otherwise will not operate unless there is a disturbance or interruption of the utility supply. BAAQMD's Authority to Construct and the California Air Resources Board's Airborne Toxic Control Measures (ATCM) limits each engine to no more than 50 hours annually for reliability purposes (i.e., testing and maintenance). Please see Section 4.3 for a complete description of the testing and maintenance frequencies and loading proposed for the LBGF.

2.3 LAFAYETTE DATA CENTER FACILITIES DESCRIPTION

2.3.1 Overview

As described in Section 1.2.2 and 1.3, the Commission SPPE's determination is limited to solely to the LBGF. However, in order for the Commission to inform the decision-makers of the potential environmental effects of the LBGF, in combination with the LDC, the applicant has included a complete description of the LDC.

There are currently two legal parcels within the project site, the northern 13.04-acre parcel located at 2825 and 2845 Lafayette Street and the southern 9.72-acre parcel located at 2805 Lafayette Street. A lot line adjustment is proposed for this project to create an expanded 15.45-acre parcel at 2825 Lafayette Street and a smaller 7.31-acre parcel at 2805 Lafayette Street.

The existing 13.04-acre site, located at 2825 and 2845 Lafayette Street, is currently developed with two two-story office buildings and associated paved parking and loading areas. The two buildings are 164,000 square feet and 162,400 square feet respectively.

The LDC will include demolition of the existing improvements on the 13.04-acre site to construct a three-story 57<u>56,401</u>120 square foot data center building, utility substation, generator equipment yard (the LBGF), surface parking and landscaping. The data center building will house computer servers for private clients in a secure and environmentally controlled structure and would be designed to provide 66 megawatts (MW) of power to information technology (Critical IT) equipment. The data center will utilize air cooled condensors for interior climate control. No water will be used for cooling purposes. A site plan of the proposed development is shown on Figure 2.3–1.

The data center building will consist of two main components: a three-level power base building (PBB) component and a three-level data center suite component. The PBB will be located on the Lafayette Street side of the building and on Central Expressway side of the building towards the east side of the site. The PBB components will include support facilities such as the building lobby, restrooms, conference rooms, landlord office space, customer office space, loading dock and storage.

The data center suite components will consist of three levels of data center space. Level 1 and Level 2 will contain four data center suites and corresponding electrical/UPS rooms. Level 3 will contain three data center suites and corresponding electrical/UPS rooms. A portion of the building along the east side of the site will be reduce to a two-story building due to its proximity to the north end of the Norman Y. Mineta San José International Airport runway.

The elevation of the PBB roof would correspond with the elevation of the floor slab of the third data hall level. The project would also construct a new 100 MVA (mega volt-ampere) electrical substation along Lafayette Street (the western side of the site). SVP will have direct access to the site from Lafayette Street. The three-bay substation (three 50 MVA 60 kV-12kV step-down transformers) will be designed to allow one of the three transformers to be taken out of service, effectively providing 100 MVA of total power (a 3-to-make-2 design)¹.

¹ The relationship between MVA and MW is MVA = MW x power factor. A typical factor for a data center is around 0.95. Power factor is a function of the loads, not the utility substation. At 0.95 power factor, a 100 MVA

Transformers have an all-weather asphalt surface underlain by an aggregate base. A concrete masonry unit screen wall, 13 feet in height, would surround the substation. The substation will be capable of delivering electricity to the LDC from Silicon Valley Power but will not allow any electricity generated from the LBGF to be delivered to the transmission grid.

2.3.2 Building Heights and Setbacks

The data center building will be approximately $64 \frac{1}{2} \frac{5}{5}$ feet in height to the top of parapet (approximate elevation 104 $\frac{1}{2}$ feet AMSL) to top of the Level 1 slab plus an addition seven feet in elevation change to the top of the Fire Department access road.

The mechanical equipment screen on the roof the building will extend to a height of 73 feet in height (approximate elevation 113 feet AMSL) from the top of the Level 1 slab plus an addition seven feet in elevation change to the top of the Fire Department access road.

The building would also include an elevator penthouse that will extend to a height of 82 feet in height <u>(approximate elevation 122 feet AMSL)</u> from the top of the Level 1 slab plus an addition seven feet in elevation change to the top of the Fire Department access road.

The building will be located in the center of the site and will be set back at a minimum of 15 feet from the front yard to the west (Lafayette Street), a minimum of 15 feet from side yard to the north (Central Expressway), a minimum of 0 feet from the side yard to the south (adjacent to a non-residential zone) and a minimum of 50 feet from the rear yard to the east (adjacent to a non-residential zone; railroad tracks).

2.3.3 Site Access and Parking

The overall project site has two driveways on Lafayette Street, one that serves the existing 2805 building and one that serves the existing 2825 and 2845 Lafayette Street. No changes are proposed to the location of the existing driveways.

A new driveway will be constructed on Lafayette between the two existing driveways to provide access to the new SVP utility substation.

The project would provide 767 parking spaces for the 2805 building and would provide 17790 spaces for the 2825 building. Parking is spaced throughout the project site with a heavy concentration of parking at the northwest and southeast corners of the property.

2.3.4 Site Grading, Excavation, and Construction

The existing building at 2805 Lafayette Street would remain, while the existing improvements on the 2825 and 2845 Lafayette Street site would be demolished to allow for construction of the new LDC building.

substation can provide 95 MW of power. Therefore, the SVP utility substation will limit the LDC to below 100 MW of total load.

Demolition and construction activities are estimated to last approximately 24 months to the initial occupancy of the building. <u>Interior room buildout will continue as suites are leased Construction</u> activities are estimated to last an additional 60 months indoors to bring the building to full occupancy.

Roughly 4,000 cubic yards of soil and undocumented fill would be removed from the site to be replaced by 34,000 cubic yards of fill to be imported to the site.

2.3.5 Landscaping

The LDC proposes to remove 375 (mostly parking lot) trees on-site, due to transmission line clearance requirements mandated by Silicon Valley Power (SVP), and various conflicts with proposed civil and architectural improvements. The City of Santa Clara's landscape ordinance mandates a 2:1 replacement with 24-inch box size trees, or 1:1 replacement with 36-in box size trees. The LDC proposes to mitigate for the loss of all 375 trees through a combination of 24-inch box size and 36-inch box size.

New landscaping consisting of trees, large and medium shrubs, and groundcovers will be installed along the property boundaries, building perimeters, stormwater treatment facilities, and landscape beds distributed throughout the parking facilities. Trees would be planted five feet away from new or existing water mains or utility lines. <u>Recycled water will be used for irrigation.</u>

A site plan of the proposed landscaping is shown in Figure 2.3-2.

2.3.6 Stormwater Controls

The LDC proposes to construct stormwater treatment areas consisting of bioretention areas and atgrade flow-through planter boxes totaling approximately 25,000 square feet. The stormwater treatment areas would be located around the perimeter of the site and adjacent to paved parking areas.

In the existing condition, stormwater discharges the site into the public system at three locations; the southwest corner of the 2805 Lafayette Street property, the northwest corner of the 2825 Lafayette Street property and the northeast corner of the 2825 property. The proposed project will connect to these three existing outfall points and is not proposing any new connections to the public storm drain system.

The San Francisco Bay Regional Water Quality Control Board (RWQCB) has issued a Municipal Regional Stormwater NPDES Permit (MRP) to regulate stormwater discharges from municipalities and local agencies. Under Provision C.3 of the MRP, new and redevelopment projects that create or replace 10,000 square feet or more of impervious surface area are required to implement site design, source control, and Low Impact Development (LID)-based stormwater treatment controls to treat post-construction stormwater runoff. LID-based treatment controls are intended to maintain or restore the site's natural hydrologic functions, maximizing opportunities for infiltration and evapotranspiration, and using stormwater as a resource (e.g. rainwater harvesting for non-potable uses). Examples of C.3 LID measures include bioretention areas, flow-through planters, and subsurface infiltration systems.

Downspouts for the roof drainage will discharge directly into bioretention areas or flow-through planters located adjacent to the building. In some cases, roof drainage will be piped under sidewalks and discharged to the pavement surface where stormwater will then surface flow to at-grade bioretention planters located along the perimeter of the site.

Flow-through planters and bioretention planters will include perforated underdrains and overflow structures that connect to the on-site storm drains system which eventually discharges to the public storm system in Lafayette Street and Central Expressway.

2.3.7 Facilities Utilities

As part of the construction of the new building, domestic water, fire water, sanitary sewer, fiber, and natural gas connections will be made from the City infrastructure systems located along Lafayette Street and Central Expressway as shown on Figure 2.3-1.

2.3.8 SVP Electrical Distribution Facilities

SVP will construct a new distribution substation to support the LDC. The substation will be ultimately owned and operated by SVP as part of its distribution network. The proposed new substation will be interposed on SVP's South Loop between the 115kV receiving station and an adjacent 60kV substation. The South Loop terminal ends are comprised of 115kV receiving stations (#1 and #2) which are connected to the greater SVP Bulk Electric System (BES). Each 115kV receiving station steps the voltage down to SVP's service territory transmission voltage of 60kV. Reliability is maintained such that, if there is a fault along any section of the Loop, electric service is still supplied from the receiving stations from either end.

The new conductor that interconnects the new substation to the BES will be an ACCR type, size 715 double bundle with a carrying capacity of 310 MVA. SVP's general practice is to use tubular steel transmission poles for the two dead end structures. While SVP has not yet designed the 60 kV transmission lines that interconnect the new substation, SVP has estimated that one transmission line will come in to the site from the north and one from the south, both routes paralleling the future Lafayette Street lines. There may be up to two new transmission poles.

2.3.9 City Project Clearance Committee Review

Digital Realty submitted an application to the City of Santa Clara Project Clearance Committee (PCC) review in 2020. After receiving multiple rounds of comments and making revisions, the PCC process was completed whereby the City of Santa Clara PCC had no additional comments on the PCC drawing set. Revised drawings were provided to the CEC Docket in response to various data requests. For consistency, a complete set of the current PCC drawing set is included as Attachment 1 to this Revised Project Description.

2.4 MITIGATION INCORPORATED INTO PROJECT DESIGN

2.4.1 Air Quality

PD AQ-1: To ensure that fugitive dust impacts are less than significant, the project will implement the BAAQMD's recommended BMPs during the construction phase. These BMPs are incorporated into the design of the project and will include:

- All exposed surfaces (soil piles, graded areas, and unpaved access roads) shall be watered at least two times per day.
- All haul trucks transporting material offsite shall be covered.
- All track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day.
- All vehicle speeds on unpaved surfaces shall be limited to 15 miles per hour.
- All roadways, driveways, and sidewalks shall be paved as soon as possible. Building pads shall be completed as soon as possible after grading unless seeding or soil binders are used.
- Equipment idling times shall be minimized to 5 minutes per the Air Toxics Control Measure (ATCM). Idling time signage shall be provided for construction workers at all access points.
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer specifications. All equipment shall be checked by a certified visible emissions evaluator.
- Information on who to contact, contact phone number, and how to initiate complaints about fugitive dust problems will be posted at the site.

2.4.2 Biological Resources

PD BIO-1: The project will incorporate the following measures to reduce impacts to nesting birds.

• If possible construction activities, including removal of trees and vegetation clearing shall take place between September and January. If construction activities, including tree removal and vegetation clearing, must occur during the nesting season (February 1 through August 31) a preconstruction survey for nesting raptors and other protected native or migratory birds shall be conducted by a qualified ornithologist, approved by the City of Santa Clara, to identify active nesting that may be disturbed during project implementation. Between February 1 through August 31 (inclusive) pre-construction surveys shall be conducted no more than 14 days prior to the initiation of construction activities, including tree removal or vegetation clearing. Surveys will be repeated if project activities are suspended or delayed for more than 14 days during the nesting season. The surveying ornithologist shall inspect all trees in and immediately adjacent to the construction area to be disturbed by these activities, and the ornithologist shall, in consultation with the State of California, Department of Fish and Wildlife (CDFW), designate a construction-free buffer zone around the nest. The size of all buffer zones will initially be a 250- foot radius around the nest of non-raptors and a 500-foot radius around the nest for raptors. Any changes to a buffer zone must be approved by the City of Santa Clara in consultation with CDFW. The nests and buffers will be field checked weekly by the approved ornithologist. The approved buffer zone will be marked in the field with exclusion fencing, within which no construction, tree removal, or vegetation clearing will

commence until the ornithologist and the City of Santa Clara, in consultation with CDFW, verify that the nest(s) are no longer active. If an active bird nest is discovered during construction, then a buffer zone shall be established under the guidelines specified.

• The ornithologist shall submit a copy of the pre-construction nest survey report(s) indicating the results of the survey and any designated buffer zones to the City of Santa Clara's Director of Planning and Inspection prior to the start of construction activities or the issuance of a tree removal permit by the City Arborist. The report(s) will contain maps showing the location of all nests, species nesting, status of the nest (e.g. incubation of eggs, feeding of young, near fledging), and the buffer size around each nest (including reasoning behind any alterations to the initial buffer size). The report will be provided within 10 days of completing a pre-construction nest survey.

The project will incorporate the following measures to reduce impacts to nesting birds.

• If removal of the trees on site would take place between January and September, a preconstruction survey for nesting raptors shall be conducted by a qualified ornithologist to identify active nesting raptor nests that may be disturbed during project implementation. Between January and April (inclusive) pre-construction surveys shall be conducted no more than 14 days prior to the initiation of construction activities or tree relocation or removal. Between May and August (inclusive), pre-construction surveys shall be conducted no more than 30 days prior to the initiation of these activities. The surveying ornithologist shall inspect all trees in and immediately adjacent to the construction area to be disturbed by these activities, and the ornithologist shall, in consultation with the State of California, Department of Fish and Wildlife (CDFW), designate a construction free buffer zone (typically 250 feet) around the nest until the end of the nesting activity.

• The applicant shall submit a report indicating the results of the survey and any designated buffer zones to the satisfaction of the Director of Planning and Inspection prior to the issuance of a tree removal permit by the City Arborist.

PD BIO-2: The project will incorporate the following measures, in accordance with the arborist recommendations, to protect trees from harm that could occur during construction. Any additional measures required by the City of Santa Clara would also be implemented.

- Remove trees#1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476, upon approval from the City of Santa Clara.
- Remove deadwood from remaining Callery pears and Raywood ashes. This will benefit both tree health and worker safety.
- All tree work must be completed by trained tree care personnel under the direction of an International Society of Arboriculture Certified Arborist.
- The Applicant shall alert the Project Arborist when new drawings are available showing grading, utilities, retention area details, or material changes to project features.
- Tree protection fencing shall be installed prior to any demolition equipment entering the site.
 Sencing shall be installed at or outside the tree protection areas of all trees to be retained.

- Where existing pavement is within tree protection zones, install tree protection fencing at the edge of pavement. After demolition, relocated tree protection fencing to the edge of the tree protection area.
- o Install tree protection fencing at the edge of the project features.
- For areas where no construction will occur, tree protection fencing will be installed at the perimeter of the area instead of around each tree individually.
- o Spread wood chips at least four inches thick within tree protection fencing.
- For existing hardscape to be demolished within tree protection zones:
 - o Demolish the area nearest the tree first, and work outwards.
 - o Do not operate machinery on unpaved areas within tree protection zones.
 - Upon completion of demolition, relocate tree protection fencing to at or outside the tree protection area.
- Minimize grading near trees. Do not complete any grading inside tree protection fencing.
- If live roots over one inch in diameter are encountered at any time, in any location, they must be pruned with a sharp saw or bypass pruners, as close to the edge of the excavation as possible. If roots over three inches in diameter are encountered, do not prune, but instead contact the Project Arborist to determine the best course of action.
- Irrigate all trees to be retained on a monthly basis with potable water, in the absence of heavy rain.
 - Irrigate using a soaker hose placed as close to the tree driplines as practical. Irrigate for 2-4 hours at a very low flow. If this causes runoff, reduce the flow rate. If this is impractical for any tree for any reason, contact the Project Arborist.

2.4.3 Cultural Resources

PD CUL-1: The project proposes to implement the following measures to ensure the project's impacts to archaeological resources are less than significant:

- A Secretary of the Interior-qualified archaeologist and a Native American cultural resources monitor shall be on site to monitor grading of native soil once all pavement is removed from the project site. The project applicant shall submit the name and qualifications of the selected archaeologist and Native American Monitor to the Director of Planning and Inspection prior to the issuance of a grading permit. Preference in selecting Native American monitors shall be given to Native Americans with:
 - \circ Traditional ties to the area being monitored.
 - Knowledge of local historic and prehistoric Native American village sites.
 - Knowledge and understanding of Health and Safety Code, Section 7050.5 and Public Resources Code, Section 5097.9 et seq.
 - Ability to effectively communicate the requirements of Health and Safety Code, Section 7050.5 and Public Resources Code, Section 5097.9 et seq.
 - Ability to work with law enforcement officials and the Native American Heritage Commission to ensure the return of all associated grave goods taken from a Native American grave during excavation.
 - Ability to travel to project sites within traditional tribal territory.
 - Knowledge and understanding of Title 14, California Code of Regulations, Section 15064.5.

- Ability to advocate for the preservation in place of Native American cultural features through knowledge and understanding CEQA mitigation provisions.
- Ability to read a topographical map and be able to locate site and reburial locations for future inclusions in the Native American Heritage Commission's Sacred Lands Inventory.
- Knowledge and understanding of archaeological practices, including the phases of archaeological investigation.
- After removal of pavement and prior to grading, the archaeologist shall conduct a pedestrian survey over the exposed soils to determine if any surface archaeological manifestations are present. The archaeologist will monitor full-time all grading and ground disturbing activities in native soils associated with construction of the proposed project. If the archaeologist and Native American monitor believe that a reduction in monitoring activities is prudent, then a letter report detailing the rationale for making such a reduction and summarizing the monitoring results shall be provided to the Director of Planning and Inspection. Department of Recreation 523 forms shall be submitted along with the report for any cultural resources encountered over 50 years old.
- In the event that prehistoric or historic resources are encountered during on-site construction activities, all activity within a 50-foot radius of the find shall be stopped, the Director of Planning and Inspection shall be notified, and a Secretary of the Interior-qualified archaeologist shall examine the find and record the site, including field notes, measurements, and photography for a Department of Parks and Recreation 523 Primary Record form. The archaeologist shall make a recommendation regarding eligibility for the California Register of Historical Resources, data recovery, curation, or other appropriate mitigation. Ground disturbance within the 50-foot radius can resume once these steps are taken and the Director of Planning and Inspection has concurred with the recommendations. Within 30 days of the completion of construction or cultural resources monitoring, whichever comes first, a report of findings documenting any cultural resource finds, recommendations, data recovery efforts, and other pertinent information gleaned during cultural resources monitoring shall then be submitted to the Director of Planning and Inspection. Once finalized, this report shall be submitted to the Northwest Information Center at Sonoma State University.
- Prior to and for the duration of ground disturbance, the project owner shall provide Worker Environmental Awareness Program training to all existing and any new employees. This training should include: a discussion of applicable laws and penalties under the laws; samples or visual aids of artifacts that could be encountered in the project vicinity, including what those artifacts may look like partially buried, or wholly buried and freshly exposed; and instructions to halt work in the vicinity of any potential cultural resources discovery, and notify the city-approved archaeologist and Native American cultural resources monitor.

PD CUL-2: The project proposes to implement the following measure to ensure the project's impacts to human remains are less than significant:

• In the event that human remains are discovered during on-site construction activities, all activity within a 50-foot radius of the find shall be stopped. The Santa Clara County Coroner

shall be notified and shall make a determination as to whether the remains are of Native American origin or whether an investigation into the cause of death is required. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission. All actions taken under this mitigation measure shall comply with Health and Human Safety Code § 7050.5(b).

2.4.4 Geology and Soils

PD GEO-1: In order to ensure the project design conforms to the requirements of a final geotechnical engineering investigation and California and local building standards and codes, the following is proposed as mitigation incorporated into the project. Incorporation will ensure seismic hazards are reduced to less than significant levels.

• To avoid or minimize potential damage from seismic shaking, the project would be built using standard engineering and seismic safety design techniques. Building redevelopment design and construction at the site shall be completed in conformance with the recommendations of a design-level geotechnical investigation, which will be included in a report to the City. The report shall be reviewed and approved by the City of Santa Clara's Building Division as part of the building permit review and issuance process. The building shall meet the requirements of applicable Building and Fire Codes, including the 2016 California Building Code, as adopted or updated by the City. The project shall be designed to reduce the risk to life or property to the extent feasible and in compliance with the Building Code.

PD GEO-2: The project proposes to implement the following measures to as best management practices to ensure impacts to paleontological resources are less than significant.

- Prior to the start of any subsurface excavations that would extend beyond previously disturbed soils, all construction forepersons and field supervisors shall receive training by a qualified professional paleontologist, as defined by the Society of Vertebrate Paleontology, who is experienced in teaching non- specialists, to ensure they can recognize fossil materials and shall follow proper notification procedures in the event any are uncovered during construction. Procedures to be conveyed to workers include halting construction within 50 feet of any potential fossil find and notifying a qualified paleontologist, who shall evaluate its significance.
- If a fossil is found and determined by the qualified paleontologist to be significant and avoidance is not feasible, the paleontologist shall notify the Director of Planning and Inspection and develop and implement an excavation and salvage plan in accordance with Society of Vertebrate Paleontology standards. Construction work in these areas shall be halted or diverted to allow recovery of fossil remains in a timely manner. Fossil remains collected during the monitoring and salvage portion of the mitigation program shall be cleaned, repaired, sorted, and cataloged. Prepared fossils, along with copies of all pertinent field notes, photos, and maps, shall then be deposited in a scientific institution with paleontological collections. A final Paleontological Mitigation Plan Report shall be prepared that outlines the results of the mitigation program. The Director of Planning and

Inspection shall be responsible for ensuring that the paleontologist's recommendations regarding treatment and reporting are implemented.

2.4.5 Greenhouse Gas Emissions

PD GHG-1: The project owner shall use renewable diesel for 100 percent of total energy use by the emergency backup generators, and only use ultra-low sulfur diesel (ULSD) as a secondary fuel in the event of supply challenges or disruption in obtaining renewable diesel. The City of Santa Clara Community Development Department may grant temporary relief from the 100 percent renewable diesel requirement if the project owner can demonstrate a good faith effort to comply with the requirement and that compliance is not practical. The project owner shall provide an annual report of the status of procuring and using renewable diesel to the director, or director's designee, of the City of Santa Clara Community Development Department demonstrating compliance.

PD GHG-2: The project owner shall ensure that 100 percent of the electricity purchased to power the project is covered by carbon-free resources using one of the following options:

- (1) participate in SVP's LCRE program or other renewable energy program that accomplishes the same objective as SVP's LCRE Program for 100 percent carbon-free electricity, or
- (2) purchase renewable energy credits or similar instruments that accomplish the same goals of 100 percent carbon-free electricity.

The project owner shall provide documentation to the director, or director's designee, of the city of Santa Clara Electric Utility Department of enrollment and annual reporting of continued participation in SVP's LCRE program with 100 percent carbon-free electricity coverage. If not enrolled in SVP's LCRE Program, the project owner shall provide documentation and annual reporting to the director, or director's designee, of the city of Santa Clara Electric Utility Department that confirms that alternative measures achieve the same 100 percent carbon free electricity as SVP's LCRE program, with verification by a qualified third-party auditor specializing in greenhouse gas emissions.

2.4.5 <u>2.4.6</u> Hazards

PD HAZ-1: The project will implement the following measures to would reduce potentially significant soil and or groundwater impacts to construction workers to a less than significant level.

- Prior to the issuance of grading permits, shallow soil samples shall be taken in areas where soil disturbance is anticipated to determine if contaminated soils with concentrations above established construction/trench worker thresholds may be present due to historical agricultural use and from historical leaks and spills. The soil sampling plan must be reviewed and approved by the Santa Clara Fire Department Fire Prevention and Hazardous Materials Division prior to initiation of work. Once the soil sampling analysis is complete, a report of the findings will be provided to the Santa Clara Fire Department Fire Prevention and Hazardous Materials Division and other applicable City staff for review.
- Documentation of the results of the soil sampling shall be submitted to and reviewed by the City of Santa Clara Director of Planning and Inspection prior to the issuance of a grading permit. Any soil with concentrations above applicable Environmental Screening Levels or hazardous waste limits would be characterized, removed, and disposed of off-site at an appropriate landfill according to all state and federal requirements.

- A Site Management Plan (SMP) will be prepared to establish management practices for handling impacted groundwater and/or soil material that may be encountered during site development and soil-disturbing activities. Components of the SMP will include: 1) a detailed discussion of the site background; 2) a summary of the analytical results; 3) preparation of a Health and Safety Plan by an industrial hygienist; 4) protocols for conducting earthwork activities in areas where impacted soil and/or groundwater are present or suspected; 5) worker training requirements, health and safety measures and soil handing procedures shall be described; 6) protocols shall be prepared to characterize/profile soil suspected of being contaminated so that appropriate mitigation, disposal or reuse alternatives, if necessary, can be implemented; 7) notification procedures if previously undiscovered significantly impacted soil or groundwater is encountered during construction; 8) notification procedures if previously unidentified hazardous materials, hazardous waste, underground storage tanks are encountered during construction; 9) on-site soil reuse guidelines; 9) sampling and laboratory analyses of excess soil requiring disposal at an appropriate off-site waste disposal facility; 10) soil stockpiling protocols; and 11) protocols to manage groundwater that may be encountered during trenching and/or subsurface excavation activities. Prior to issuance of grading permits, a copy of the SMP must be approved by the Santa Clara County Environmental Health Department, and the Santa Clara Fire Department Fire Prevention and Hazardous Materials Division.
- If contaminated soils are found in concentrations above risk-based thresholds pursuant to the terms of the SMP, remedial actions and/or mitigation measures will be taken to reduce concentrations of contaminants to levels deemed appropriate by the selected regulatory oversight agency for ongoing site uses. Any contaminated soils found in concentrations above thresholds to be determined in coordination with regulatory agencies shall be either 1) managed or treated in place, if deemed appropriate by the oversight agency or 2) removed and disposed of at an appropriate disposal facility according to California Hazardous Waste Regulations and applicable local, state, and federal laws.

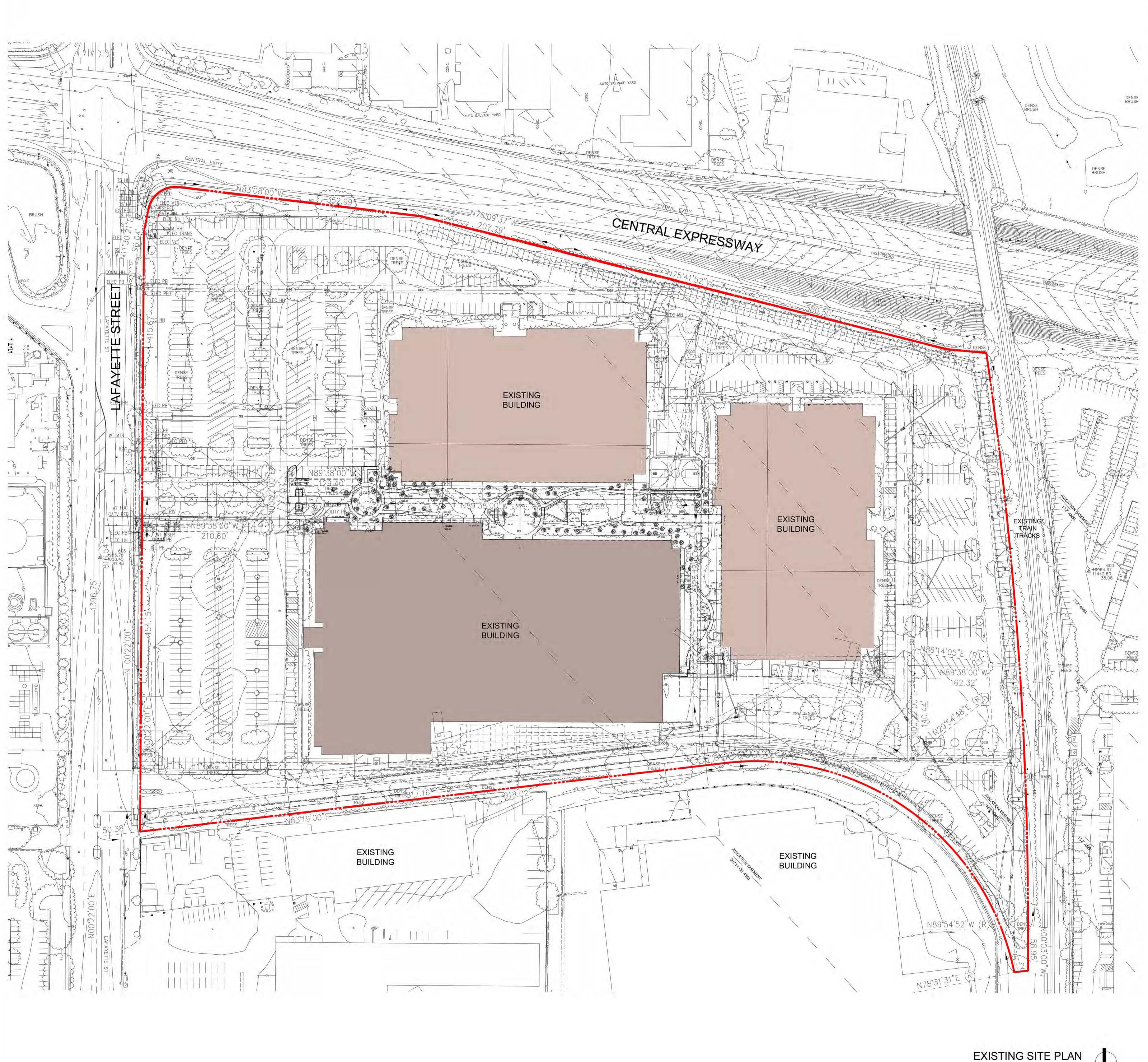
2.4.6 <u>2.4.7</u> Hydrology and Water Quality

PD HYD-1: The LDC will incorporate the following into the design and these measures should be treated as mitigation incorporated into the project. The following will reduce construction-related water quality impacts:

- Burlap bags filled with drain rock shall be installed around storm drains to route sediment and other debris away from the drains.
- Earthmoving or other dust-producing activities shall be suspended during periods of high winds.
- All exposed or disturbed soil surfaces shall be watered at least twice daily to control dust as necessary.
- Stockpiles of soil or other materials that can be blown by the wind shall be watered or covered.

- All trucks hauling soil, sand, and other loose materials shall be required to cover all trucks or maintain at least two feet of freeboard.
- All paved access roads, parking areas, and staging areas adjacent to the construction sites shall be swept daily (with water sweepers).
- Vegetation in disturbed areas shall be replanted as quickly as possible.
- All unpaved entrances to the site shall be filled with rock to knock mud from truck tires prior to entering City streets. A tire wash system may also be employed at the request of the City.





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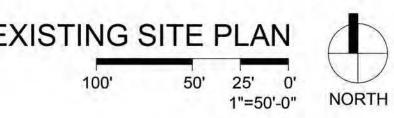
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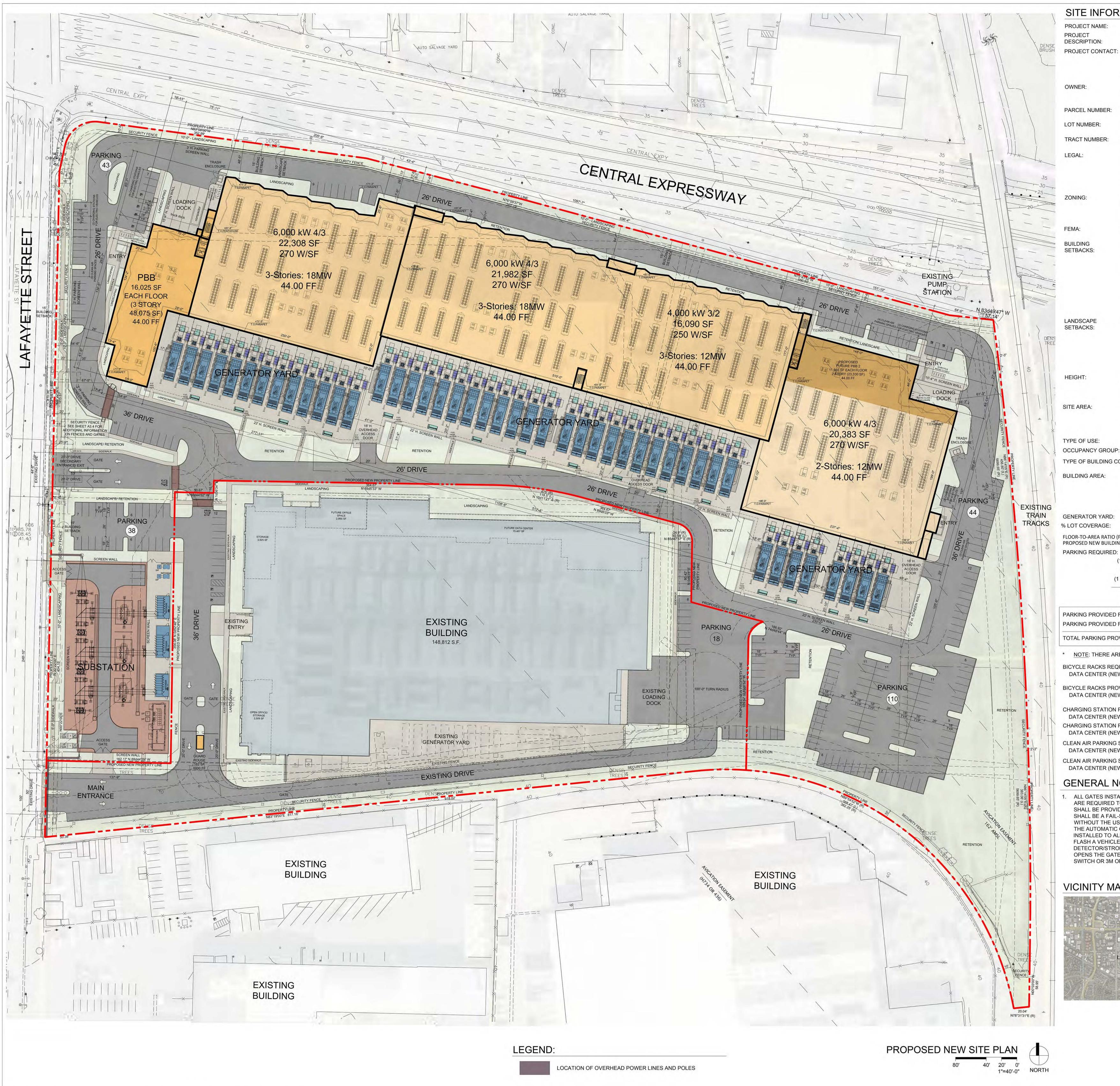




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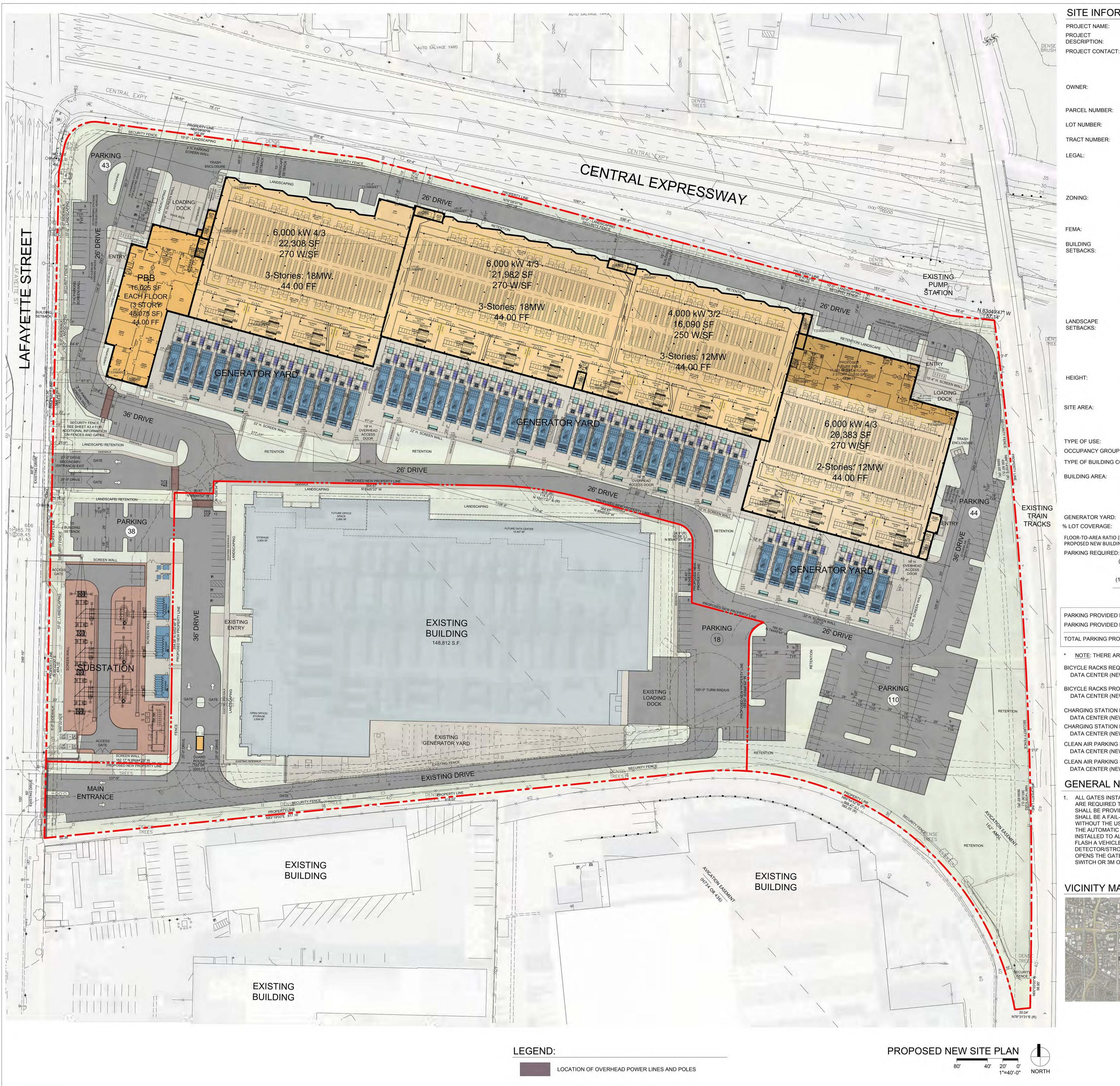
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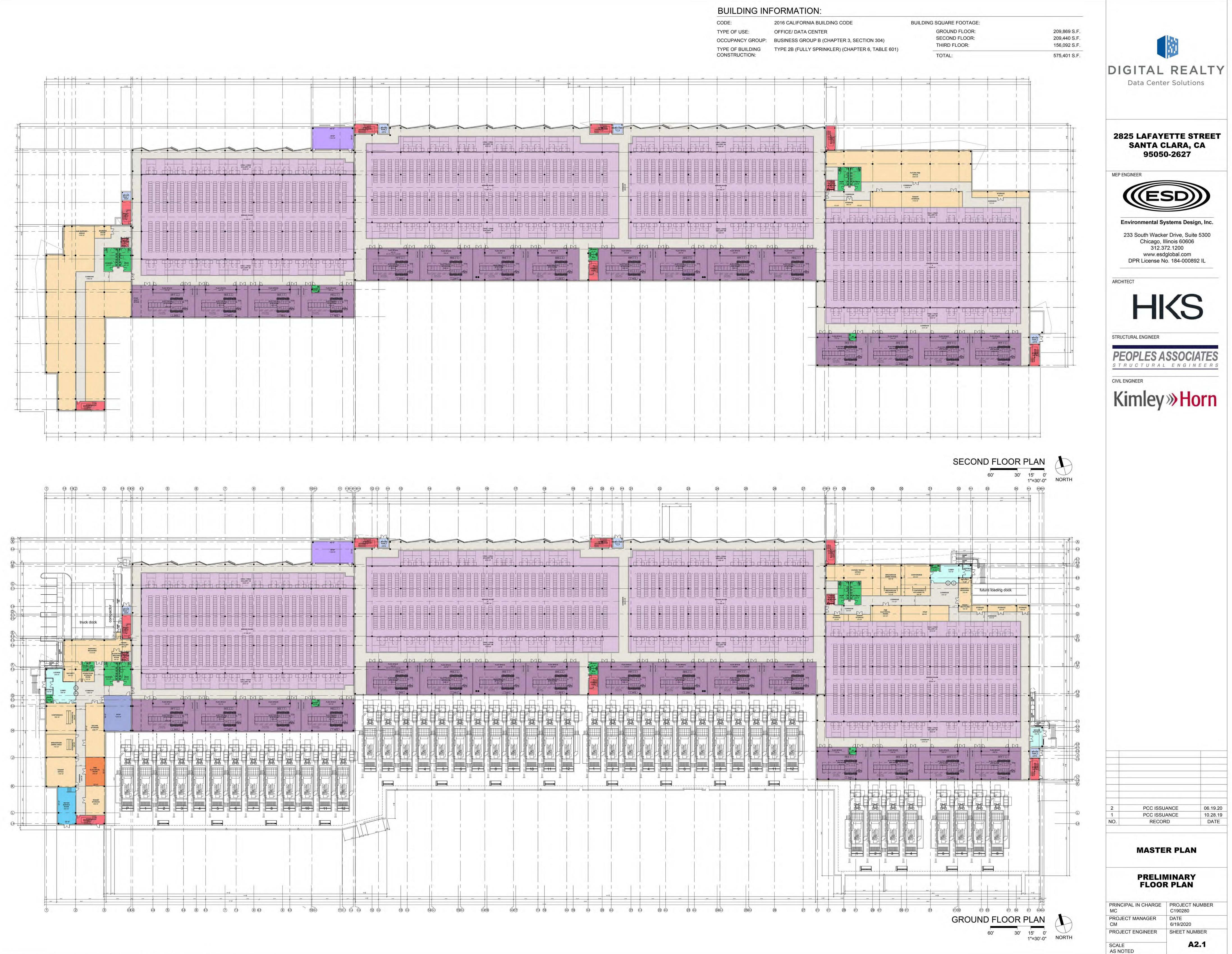
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RMATION:					
2825 LAFAYETTE STREET NEW DATA CENTER					
T: CHAD MENDELL ENVIRONMENTAL SYSTEMS DES 233 SOUTH WACKER DRIVE, SUIT					
CHICAGO, ILLINOIS 60606 312-372-1200 DIGITAL LAFAYETTE, LLC		D	GITAL	REA	LTY
2825 LAFAYETTE STREET SANTA CLARA, CA 95050-2627			Data Cente		
NORTH PARCEL: 224-04-093 SOUTH PARCEL: 224-04-094 NORTH PARCEL: LOT 2 SOUTH PARCEL: LOT 1 NORTH PARCEL: 93 SOUTH PARCEL: 94					
BOUNDED BY CENTRAL EXPRESS LAFAYETTE STREET TO THE WES STREET (SITE) AND RAILROAD T 2805 LAFAYETTE STREET (DLR) SANTA CLARA: 1.78M POPULATIO TAX ASSESSOR'S PARCEL NUME	ST, 2825 LAFAYETTE RACKS TO THE EAST, AND TO THE SOUTH COUNTY OF ON (2010 CENSUS)		825 LAFAY Santa C 9505		
MH - HEAVY INDUSTRIAL PROCESSING AND STORAGE USE		MEF	ENGINEER		
(MH - ZONING ORD 18.50.030) COMMERCIAL STORAGE AND WH NORTH PARCEL: FLOOD ZONE X SOUTH PARCEL: FLOOD ZONE AF			Œ	SD	
FRONT YARD 15'-0" EACH LOT SHALL HAVE A ST OF NOT LESS THAN FIFTEEN			Environmental S	ystems Desi	gn, Inc.
SIDE YARD 15'-0" THE STREET SIDE YARD OF I EXCLUSIVE OF THE FRONT Y THAN FIFTEEN (15) FEET IN D	ARD SHALL BE NOT LESS			er Drive, Suit Illinois 60606 72.1200	
REAR YARD 0'-0" SETBACK ADJACENT TO NOI YARD				global.com	92 IL
FRONT, SIDE YARDS 10'-0" A MINIMUM OF TEN FEET OF		ARC	HITECT		
AND STREET SIDE YARDS, E CITY-PERMITTED DRIVEWAY DEVELOPED INTO AND PERM OPEN LANDSCAPED AREAS APPROVAL OF THE DIRECTO INSPECTION. 70 FT MAX HEIGHT (ZONING ORE	XCLUSIVE OF CUTS, SHALL BE MANENTLY MAINTAINED AS SUBJECT TO THE OR OF PLANNING AND D. 18.50.070)		H	3>	3
MECH AND PARAPETS CAN BE F (ZONING ORD. 18.64.010). VARIAE ON FAA REGULATIONS. NORTH PARCEL:				12022	ATEC
SOUTH PARCEL: TOTAL:	299,683.550 S.F. 991,209.934 S.F. (22.755 ACRES)	ST	EOPLES A		
C IP: BUSINESS GROUP B (CHA	OFFICE/ DATA CENTER PTER 3, SECTION 304)				
(Cl	FULLY SPRINKLERED) HAPTER 6, TABLE 601)	K	Cimley	<i>»</i> Н(JLU
EXISTING BUILDING - 2805: DATA CENTER: NEW BUILDING - 2825:	148,812 S.F.				
DATA CENTER: TOTAL:	575,401 S.F. 724,213 S.F.				
	108,631 S.F. 30 %				
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EW):	15 SPACES				
NOTES: TALLED ON DESIGNATED FIRE DEPAF	RTMENT ACCESS ROADS				
TO ELECTRICALLY AUTOMATIC POW VIDED WITH AN EMERGENCY BATTER IL-SAFE DESIGN, ALLOWING THE GAT USE OF SPECIAL KNOWLEDGE OR EQ C GATES A DETECTOR/STROBE SWIT ALLOW EMERGENCY VEHICLES (E.G., LE MOUNTED STROBE LIGHT TOWAR ROBE SWITCH, WHICH IN TURN OVERI TE. THE GATES SHALL BE EQUIPPED OPTICOM DETECTOR TO FACILITATE	EY POWER SUPPLY, OR E TO BE PUSHED OPEN OUIPMENT. TO CONTROL TCH SHALL BE FIRE, POLICE, EMS) TO DS THE RIDES THE SYSTEM AND WITH A TOMAR STROBE				
IAP					
		2	PCC ISSU PCC ISSU	JANCE	06.19.20
SITE	An and a second	NO.	RECO		DATE
			MASTE	R PLAN	
	N.T.S.		PROPOS SITE AND FLC	PLAN	
	NORTH	and the state of the	CIPAL IN CHARGE	PROJECT N	
		MC PRO CM	JECT MANAGER	C190280 DATE 06/19/2020	
		PRO	JECT ENGINEER	SHEET NUM	
		SCA AS N	IOTED	by Environmental S	1.2 Systems Design, I



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	HIGH STORE	CORRIDOR 2275 SF	



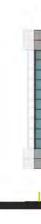
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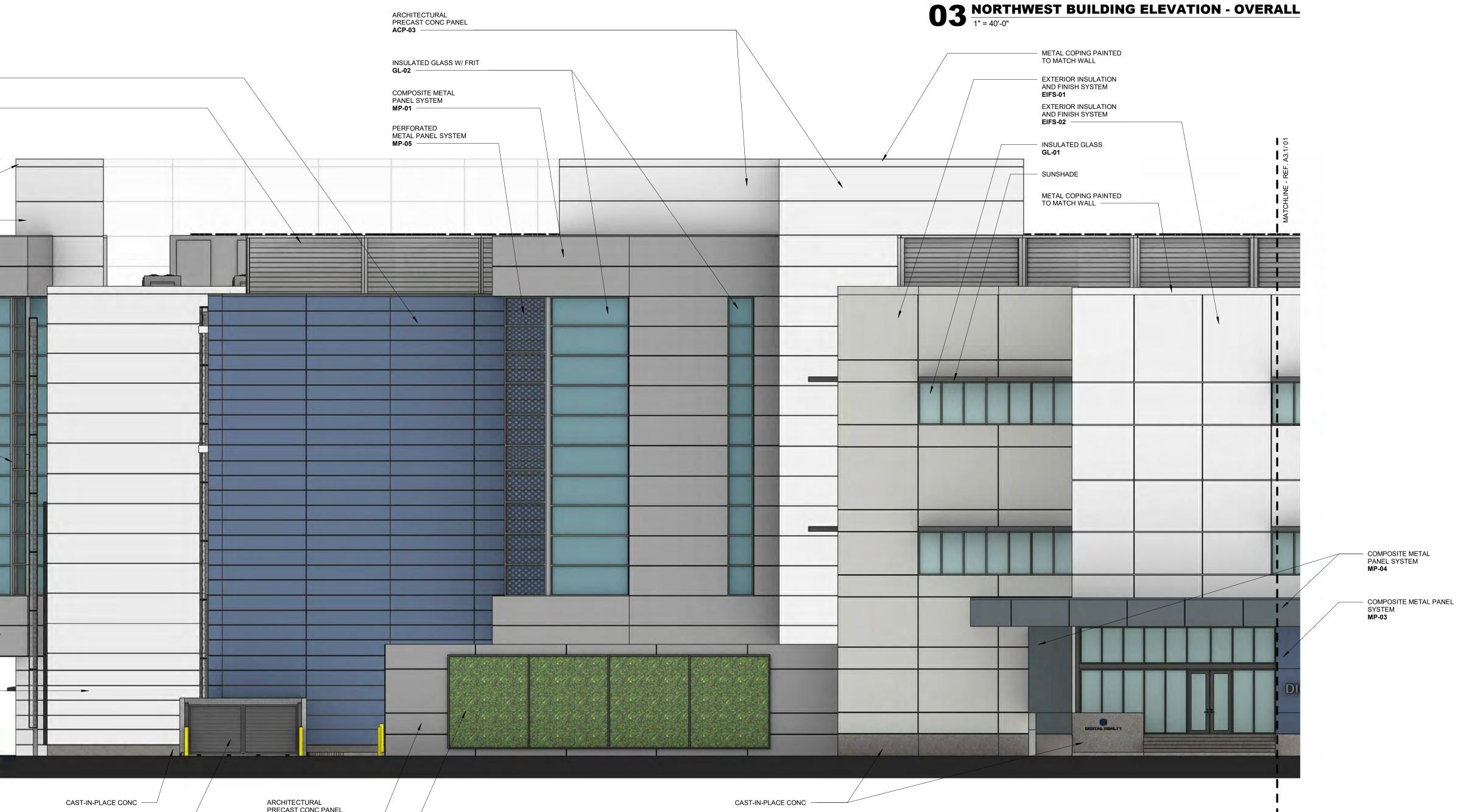


PRINCIPAL IN CHARGE MC	PROJECT NUMBER C190280
PROJECT MANAGER CM	DATE 06/19/2020
PROJECT ENGINEER	SHEET NUMBER
SCALE	A3.0



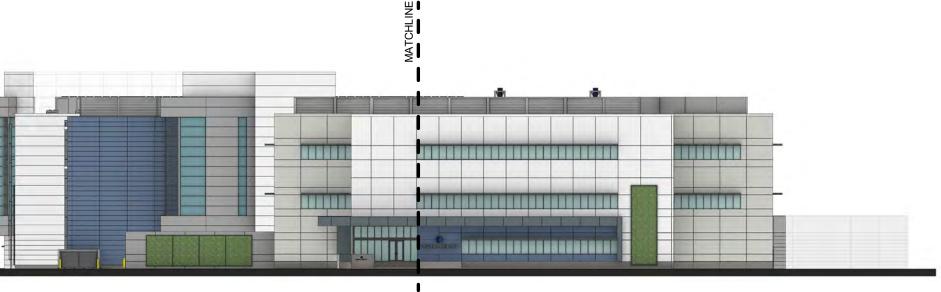
		COMPOSITE METAL PANEL SYSTEM MP-03 CORRUGATED METAL WALL SCREEN MP-06	
Þ	<u>TOP OF PENTHOUSE</u> 81' - 8"	METAL COPING PAINTED TO MATCH WALL	
þ -	TOP OF SCREEN WALL - ROOF	ARCHITECTURAL PRECAST CONC PANEL ACP-03	
		COMPOSITE METAL PANEL SYSTEM MP-01	-
Þ	<u>ROOF</u>		
		INSULATED GLASS W/ FRIT GL-02	_
Ð	<u>THIRD_FLOOR</u>	PERFORATED METAL PANEL SYSTEM MP-05	
Þ	<u>SECOND FLOOR</u>	COMPOSITE METAL PANEL SYSTEM MP-01	
		ARCHITECTURAL PRECAST CONC PANEL ACP-03	
1		BOLLARD PAINTED, TYP	
₽-	<u>GROUND FLOOR</u>		





TRASH ENCLOSURE W/ CMU

ARCHITECTURAL PRECAST CONC PANEL ACP-02 GREEN WALL SYSTEM -





01 NORTHWEST BUILDING ELEVATION - AREA 01 $\frac{1}{8"} = 1'-0"$

EXTERIOR MATERIALS LEGEND:

ARCHIT	ECTURAL CONCRETE PANEL (ACP):
ACP-01	ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
ACP-02	ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS LOCATION: DATA CENTER WALL, SCREEN WALL
ACP-03	ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
EXTERIO	DR GLAZING (GL):
GL-01	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR LOCATION: TYPICAL VISION GLAZING
GL-02	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% LOCATION: STAIR TOWERS
EXTERIO	OR INSULATION AND FINISH SYSTEM (EIFS):
EIFS-01	COLOR: LIGHT GRAY LOCATION: OFFICES
EIFS-02	COLOR: WHITE LOCATION: OFFICES

METAL PANEL (MP):

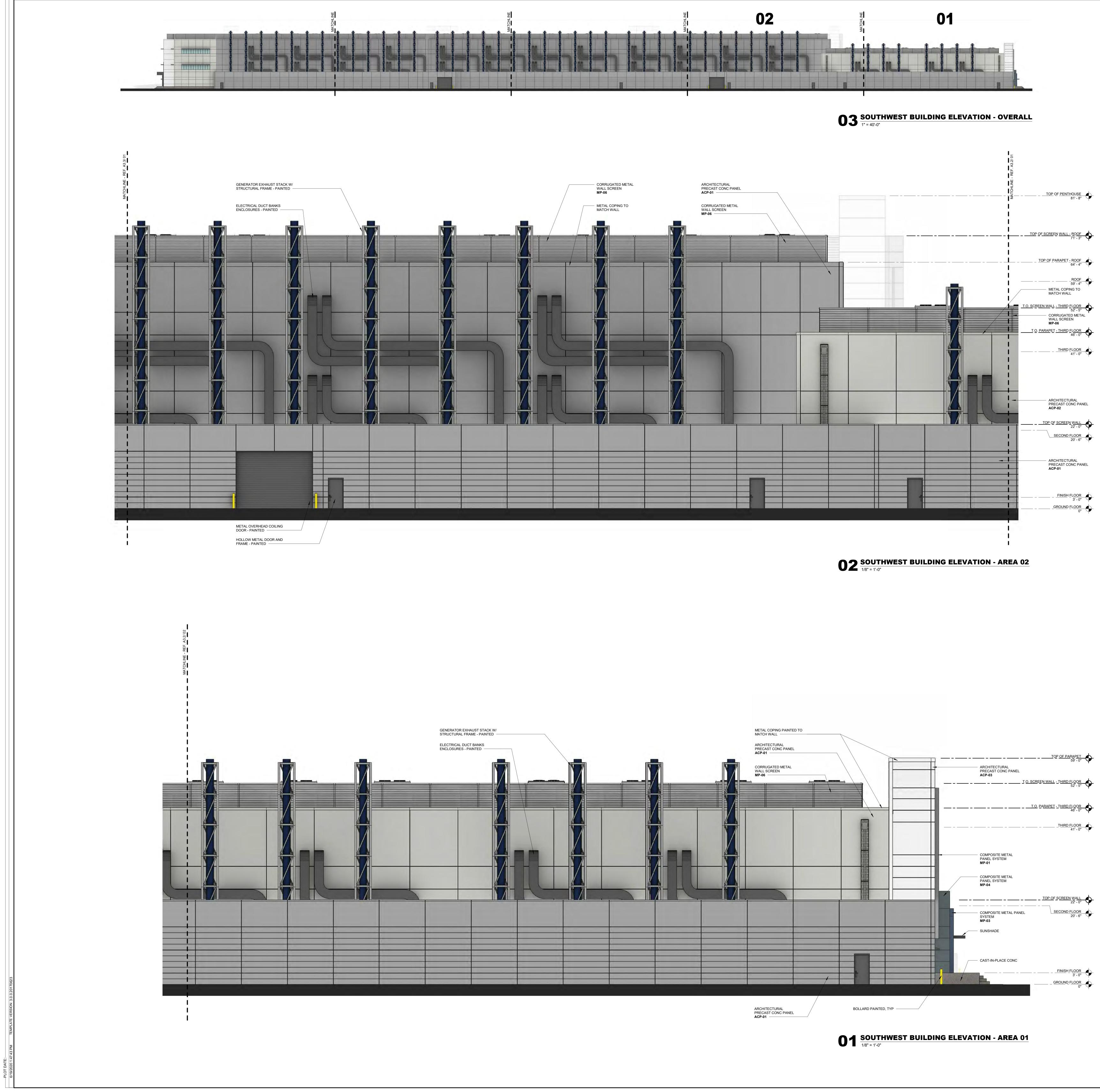
MP-01	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

COLOR	<u>S:</u>
PT-01	DARK GRAY
PT-02	LIGHT GRAY
PT-03	WHITE
PT-04	LIGHT BLUE
PT-05	GRAY VELVET
PT-06	WEB GRAY





EXTERIOR MATERIALS LEGEND:

ARCHITI	ECTURAL CONCRETE PANEL (ACP):
ACP-01	ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
ACP-02	ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS LOCATION: DATA CENTER WALL, SCREEN WALL
ACP-03	ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
EXTERIO	DR GLAZING (GL):
GL-01	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR LOCATION: TYPICAL VISION GLAZING
GL-02	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% LOCATION: STAIR TOWERS
	DR INSULATION AND FINISH SYSTEM (EIFS):
EIFS-01	COLOR: LIGHT GRAY LOCATION: OFFICES
EIFS-02	COLOR: WHITE LOCATION: OFFICES
METAL I	PANEL (MP):



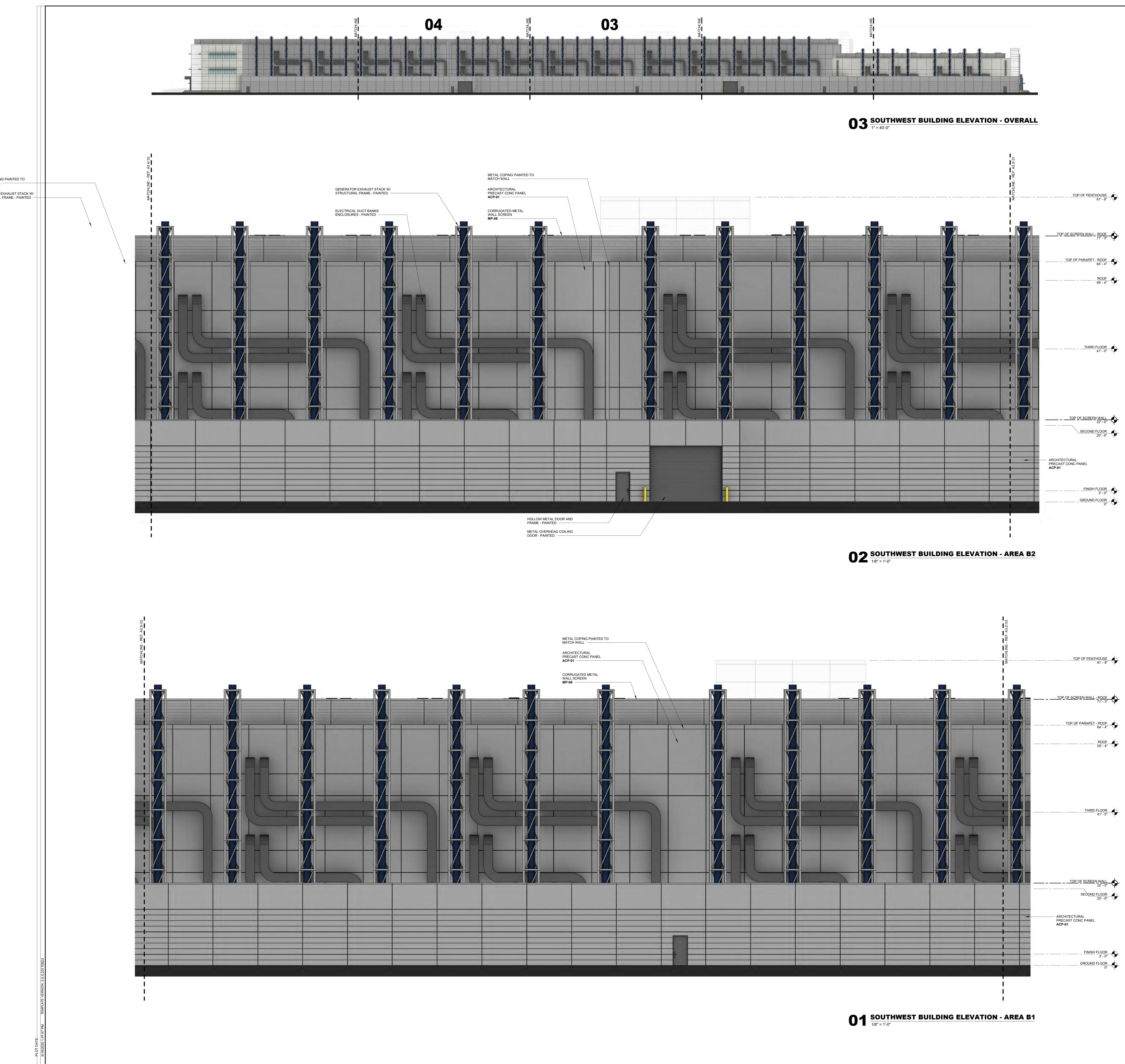
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

<u>(</u>	COLORS:		
F	PT-01	DARK GRAY	
	PT-02	LIGHT GRAY	
	PT-03	WHITE	
F	PT-04	LIGHT BLUE	
F	PT-05	GRAY VELVET	
F	PT-06	WEB GRAY	





EXTERIOR MATERIALS LEGEND:

ARCHIT	ECTURAL CONCRETE PANEL (ACP):
ACP-01	ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
ACP-02	ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS LOCATION: DATA CENTER WALL, SCREEN WALL
ACP-03	ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
EXTERIO	DR GLAZING (GL):
GL-01	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR LOCATION: TYPICAL VISION GLAZING
GL-02	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% LOCATION: STAIR TOWERS
EXTERIO	DR INSULATION AND FINISH SYSTEM (EIFS):
EIFS-01	COLOR: LIGHT GRAY LOCATION: OFFICES
EIFS-02	

METAL PANEL (MP):

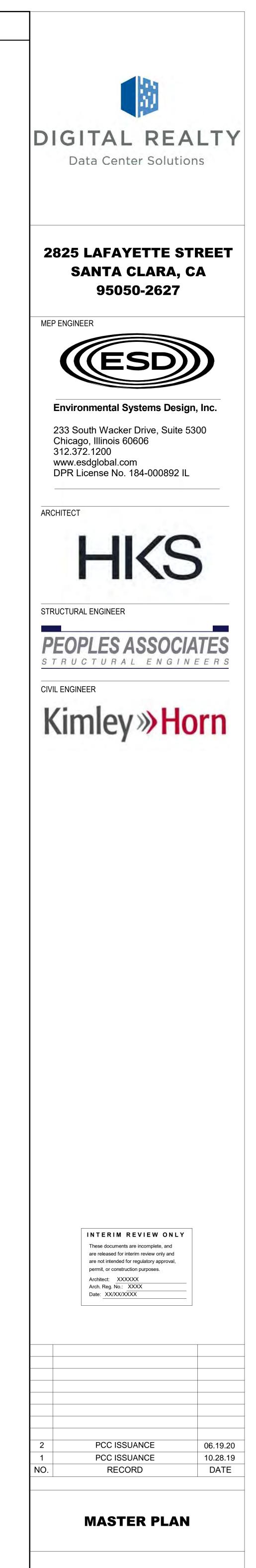
LOCATION: OFFICES

MP-01	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

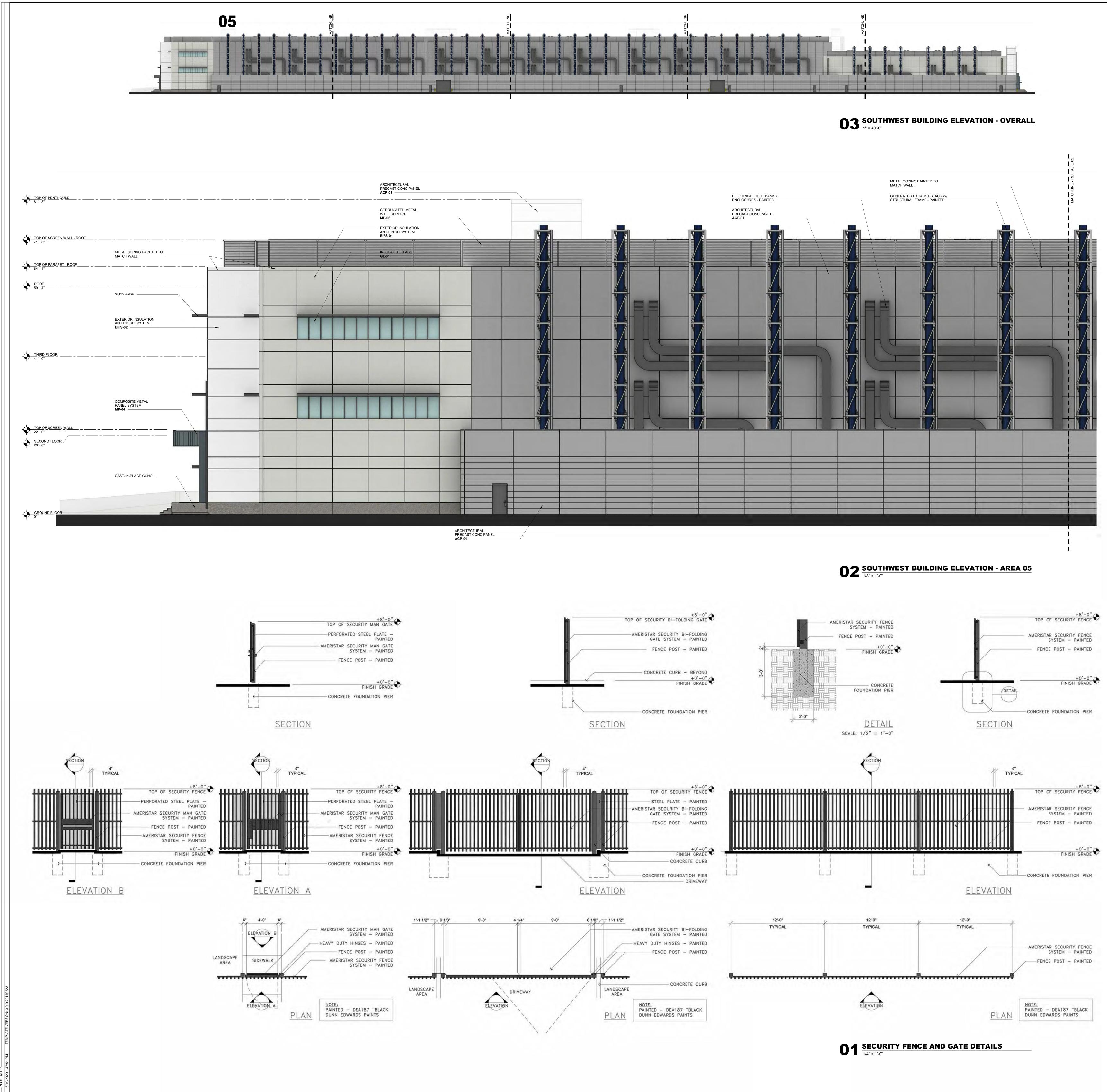
FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

<u>cc</u>	COLORS:		
PI	-01	DARK GRAY	
PT	⊺-02	LIGHT GRAY	
PI	-03	WHITE	
PT	Г-04	LIGHT BLUE	
PT	-05	GRAY VELVET	
PT	-06	WEB GRAY	



BUILDING ELEVATIONS - SOUTHWEST

PRINCIPAL IN CHARGE	PROJECT NUMBER C190280
NIO	0130200
PROJECT MANAGER	DATE
СМ	06/19/2020
PROJECT ENGINEER	SHEET NUMBER
SCALE	A3.3



EXTERIOR MATERIALS LEGEND: ARCHITECTURAL CONCRETE PANEL (ACP): ACP-01 ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS DIGITAL REALTY LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS ACP-02 ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS Data Center Solutions LOCATION: DATA CENTER WALL, SCREEN WALL ACP-03 ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS EXTERIOR GLAZING (GL): GL-01 1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR **2825 LAFAYETTE STREET** LOCATION: TYPICAL VISION GLAZING SANTA CLARA, CA GL-02 1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% 95050-2627 LOCATION: STAIR TOWERS MEP ENGINEER EXTERIOR INSULATION AND FINISH SYSTEM (EIFS): EIFS-01 COLOR: LIGHT GRAY LOCATION: OFFICES EIFS-02 COLOR: WHITE LOCATION: OFFICES Environmental Systems Design, Inc. METAL PANEL (MP): MP-01 COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER 233 South Wacker Drive, Suite 5300 Chicago, Illinois 60606 312.372.1200 MP-02 COMPOSITE METAL PANEL BASIS OF DESIGN: www.esdglobal.com COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION DPR License No. 184-000892 IL MP-03 COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION ARCHITECT MP-04 COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION MP-05 PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER MP-06 CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL STRUCTURAL ENGINEER **GREEN SCREEN SYSTEM: PEOPLES ASSOCIATES** FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE STRUCTURAL ENGINEERS

COLORS: PT-01 DARK GRAY PT-02 LIGHT GRAY PT-03 WHITE PT-04 LIGHT BLUE PT-05 GRAY VELVET PT-06 WEB GRAY



CIVIL ENGINEER

INTERIM R	EVIE	W	ONLY
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are released for inte	erim revi	ew on	ly and
are not intended for	regulato	ory ap	proval,
permit, or construct	ion purp	oses.	
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Arch. Reg. No.: X	XXX		
Date: XX/XX/XX	(X		

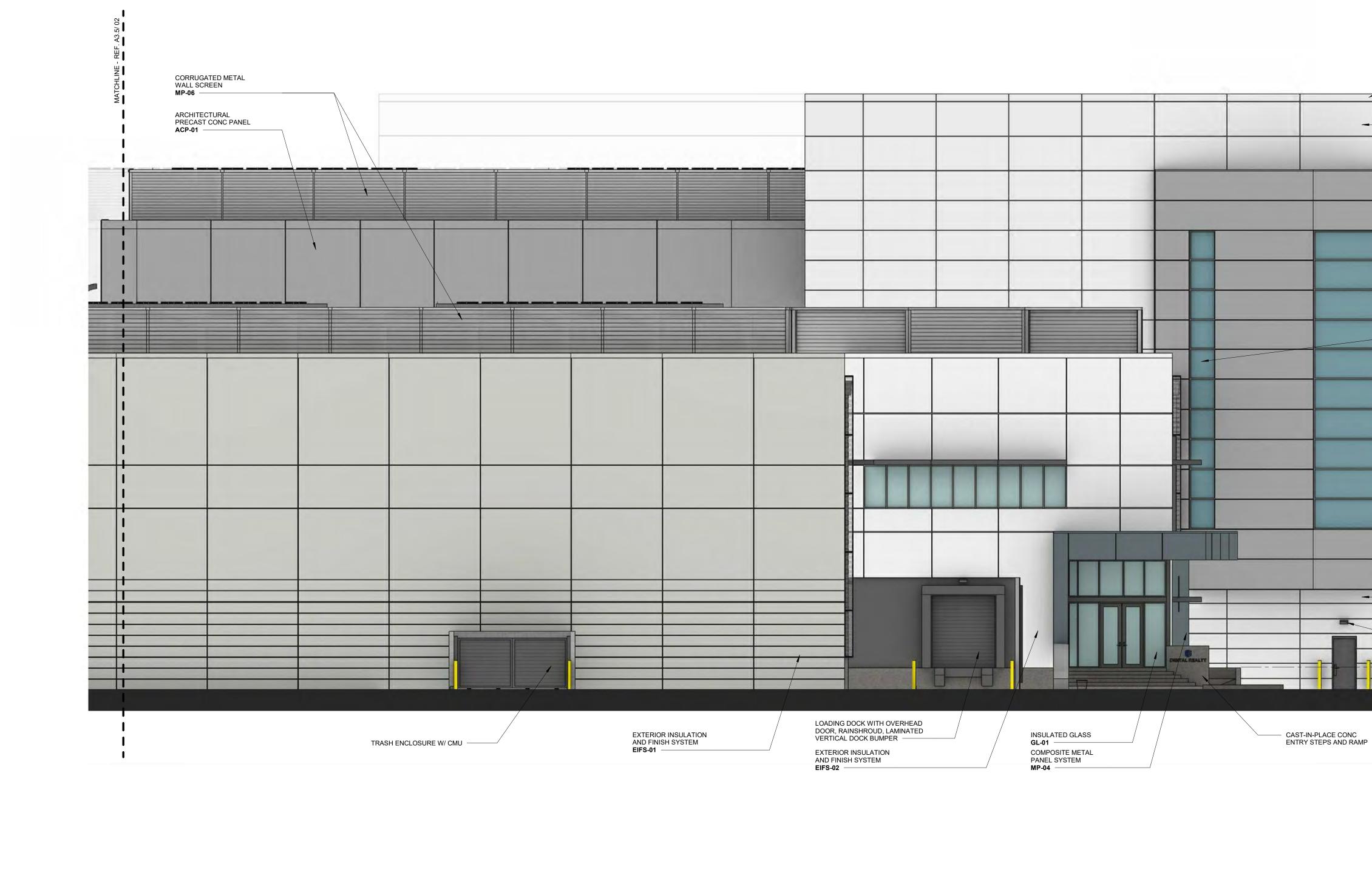
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1	PCC ISSUANCE	10.28.19
NO.	RECORD	DATE

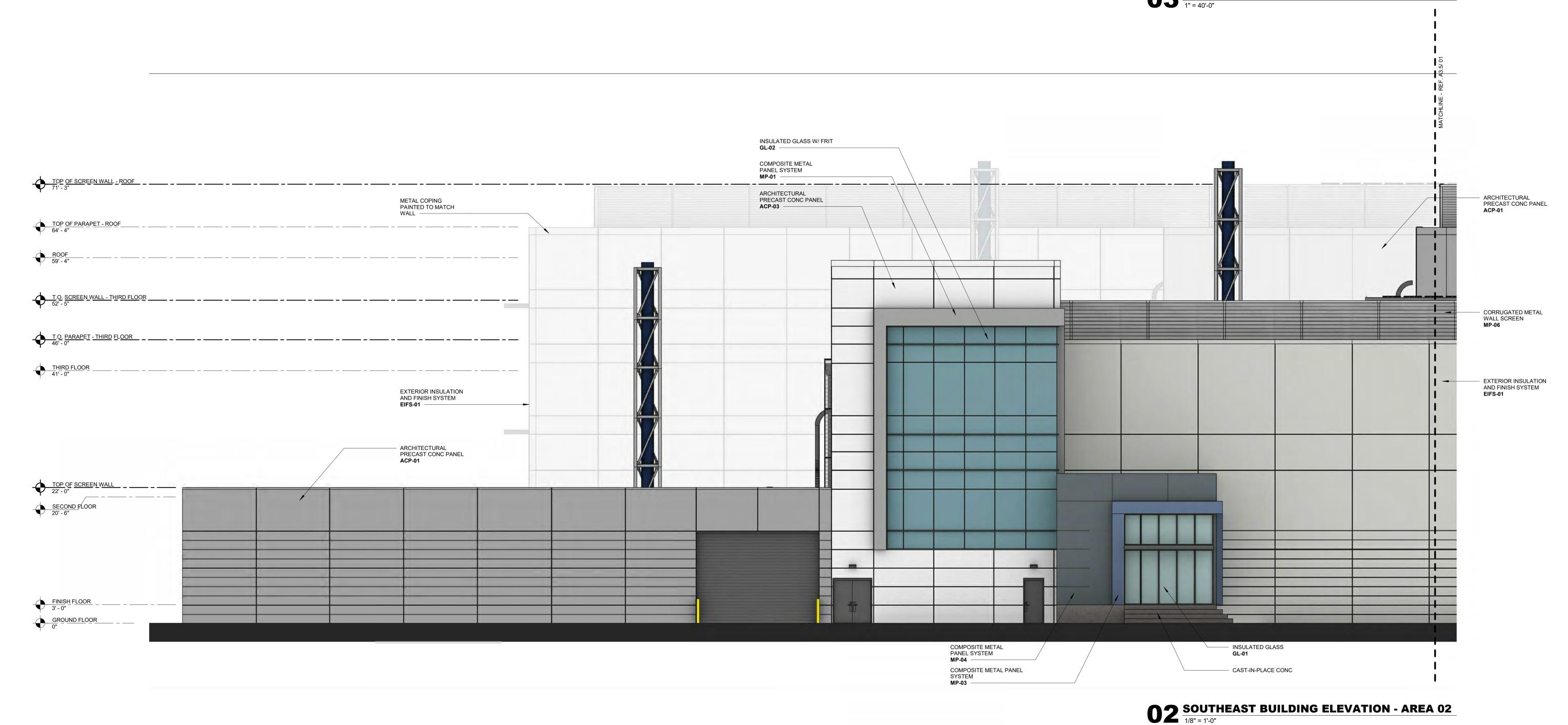
MASTER PLAN

BUILDING ELEVATIONS - SOUTHWEST

PRINCIPAL IN CHARGE	PROJECT NUMBER C190280
PROJECT MANAGER CM	DATE 06/19/2020
PROJECT ENGINEER	
SCALE	A3.4







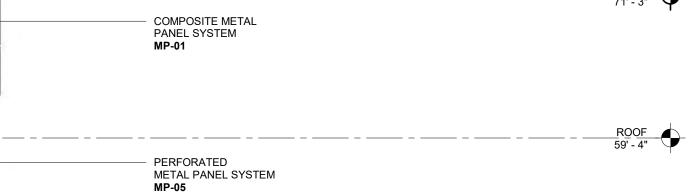




INSULATED GLASS W/ FRIT
 GL-02

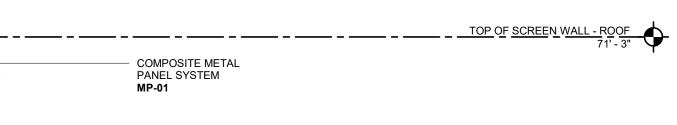
- ARCHITECTURAL PRECAST CONC PANEL ACP-03

LIGHT FIXTURE



SECOND FLOOR 20' - 6"

- FINISH FLOOR 3' - 0"



 METAL COPING TO MATCH WALL ARCHITECTURAL
 PRECAST CONC PANEL
 ACP-03



03 Southeast building elevation - overall $\frac{1}{1} = 40'-0''$

01 SOUTHEAST BUILDING ELEVATION - AREA 01 $\frac{1}{1/8"} = 1'-0"$

EXTERIOR MATERIALS LEGEND:

ARCHIT	ECTURAL CONCRETE PANEL (ACP):
ACP-01	ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
ACP-02	ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS LOCATION: DATA CENTER WALL, SCREEN WALL
ACP-03	ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
EXTERIO	DR GLAZING (GL):
GL-01	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR LOCATION: TYPICAL VISION GLAZING
GL-02	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% LOCATION: STAIR TOWERS
EXTERIO	OR INSULATION AND FINISH SYSTEM (EIFS):
EIFS-01	COLOR: LIGHT GRAY LOCATION: OFFICES



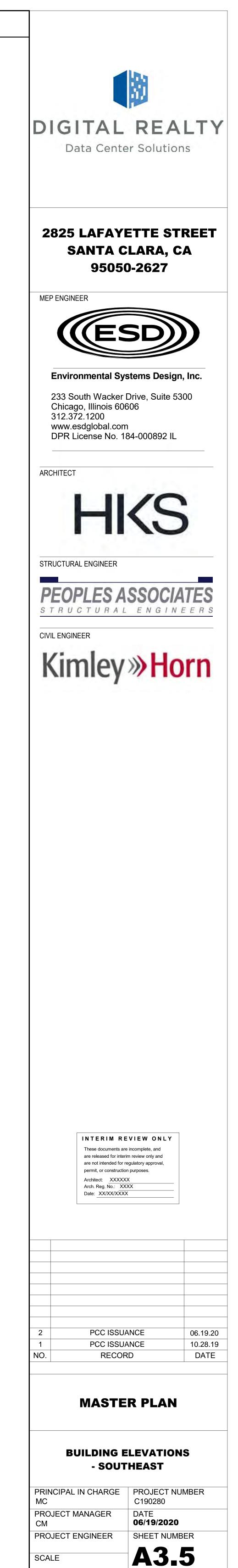
METAL PANEL (MP):

MP-01	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

<u>(</u>	COLORS:		
F	PT-01	DARK GRAY	
	PT-02	LIGHT GRAY	
F	PT-03	WHITE	
F	PT-04	LIGHT BLUE	
F	PT-05	GRAY VELVET	
F	PT-06	WEB GRAY	





ASS	CORRUGATED METAL WALL SCREEN MP-06
	$- \text{METAL COPING PAINTED TO} \\ - \text{METAL COPING PAINTED TO} \\ - \text{MATCH WALL} \\ - \text{TOP OF PARAPET - ROOF} \\ - \text{64' - 4''} \\ - \text{COP} \\ - \text{64' - 4''} \\ - \text{COP} \\ - \text{59' - 4''} \\ - \text{COP} \\ - \text$
	59 - 4" T.O. SCREEN WALL - THIRD FLOOR 52' - 5" EXTERIOR INSULATION AND FINISH SYSTEM EIFS-02 T.O. PARAPET - THIRD FLOOR
	COMPOSITE METAL PANEL SYSTEM MP-04
	SECOND FLOOR 20'- 6" GL-01
	ACP-02

EXTERIOR MATERIALS LEGEND:

ARCHIT	ECTURAL CONCRETE PANEL (ACP):
ACP-01	ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
ACP-02	ARCHITECTURAL PRECAST CONC PANEL COLOR: LIGHT GRAY FINISH: SMOOTH W/ REVEALS LOCATION: DATA CENTER WALL, SCREEN WALL
ACP-03	ARCHITECTURAL PRECAST CONC PANEL COLOR: WHITE FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS
EXTERIO	OR GLAZING (GL):
GL-01	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR LOCATION: TYPICAL VISION GLAZING
GL-02	1" INSULATED / LOW-E VISION GLASS GLASS SELECTION: VIRACON SOLARBAN 70XL CLEAR SOLID CERAMIC FRIT - 40% LOCATION: STAIR TOWERS
EXTERIO	OR INSULATION AND FINISH SYSTEM (EIFS):
EIFS-01	COLOR: LIGHT GRAY LOCATION: OFFICES
EIFS-02	COLOR: WHITE LOCATION: OFFICES

METAL PANEL (MP):

MP-01	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

COLORS:						
PT-01	DARK GRAY					
PT-02	LIGHT GRAY					
PT-03	WHITE					
PT-04	LIGHT BLUE					
PT-05	GRAY VELVET					
PT-06	WEB GRAY					

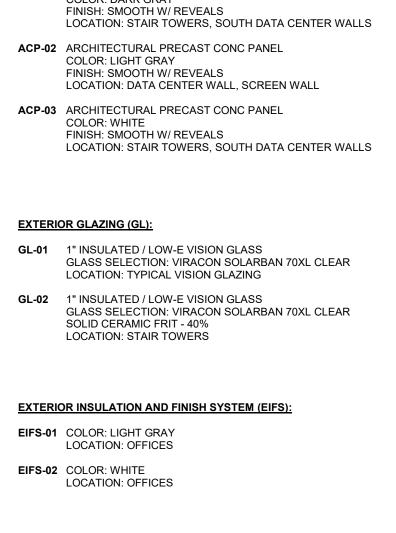








EXTERIOR MATERIALS LEGEND: ARCHITECTURAL CONCRETE PANEL (ACP): ACP-01 ARCHITECTURAL PRECAST CONC PANEL COLOR: DARK GRAY FINISH: SMOOTH W/ REVEALS LOCATION: STAIR TOWERS, SOUTH DATA CENTER WALLS



METAL PANEL (MP):

MP-01	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-02	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: NORTH ELEVATION
MP-03	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: LIGHT BLUE LOCATION: NORTH ELEVATION
MP-04	COMPOSITE METAL PANEL BASIS OF DESIGN: COLOR: GRAY VELVET LOCATION: NORTH ELEVATION
MP-05	PERFORATED METAL PANEL BASIS OF DESIGN: COLOR: DARK GRAY LOCATION: STAIR TOWER
MP-06	CORRUGATED METAL PANEL BASIS OF DESIGN: COLOR: LIGHT GRAY LOCATION: SCREEN WALL

GREEN SCREEN SYSTEM:

FLAT/NON-ARTICULATED W/ TENSIONING EXTRUSIONS MOUNTED DIRECTLY TO STRUCTURE

COLORS:						
PT-01	DARK GRAY					
PT-02	LIGHT GRAY					
PT-03	WHITE					
PT-04	LIGHT BLUE					
PT-05	GRAY VELVET					
PT-06	WEB GRAY					



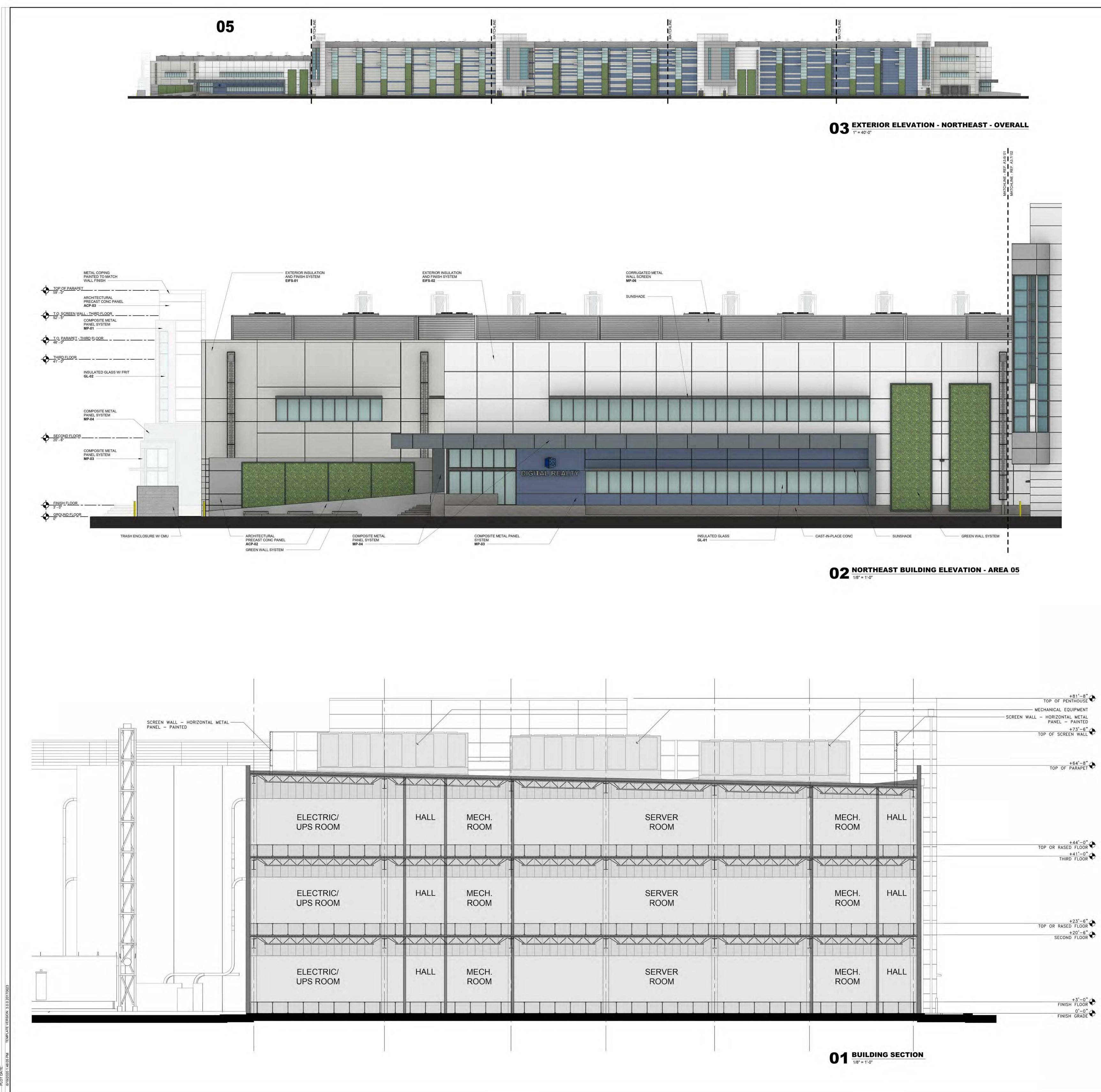
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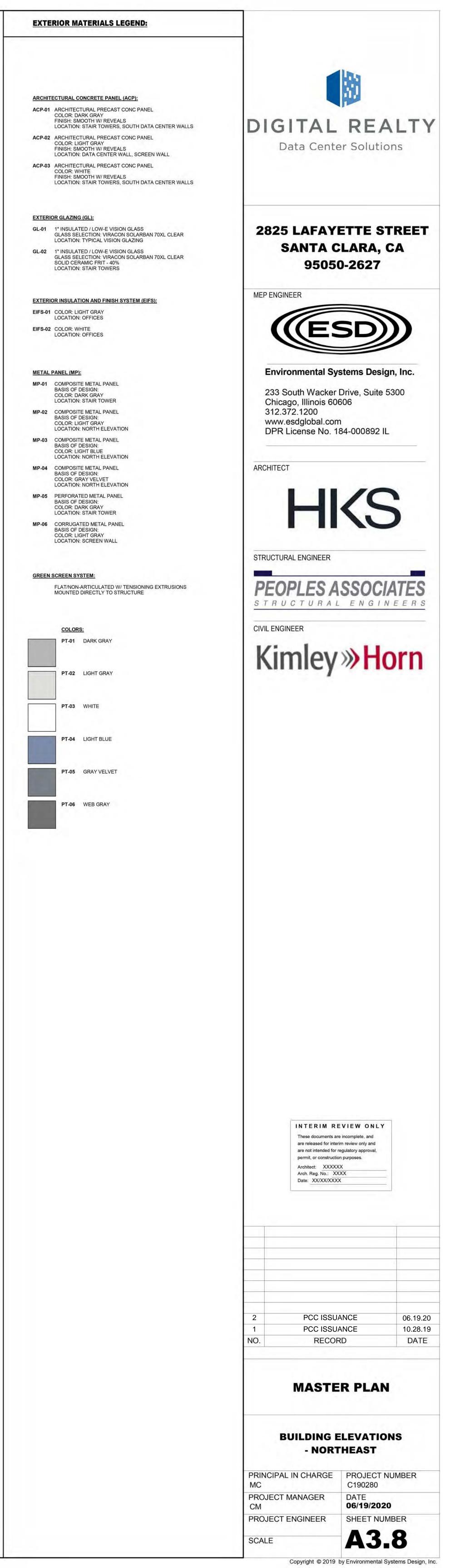
PROJECT ENGINEER SHEET NUMBER

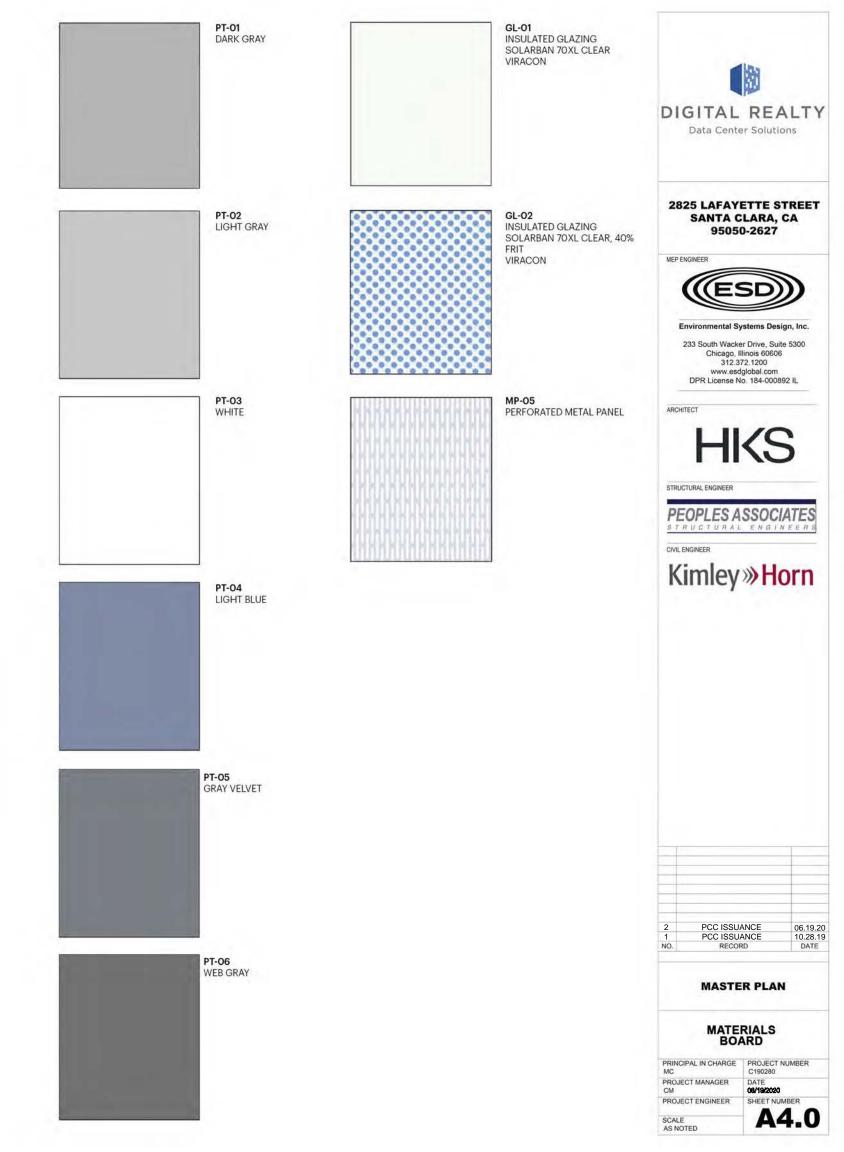
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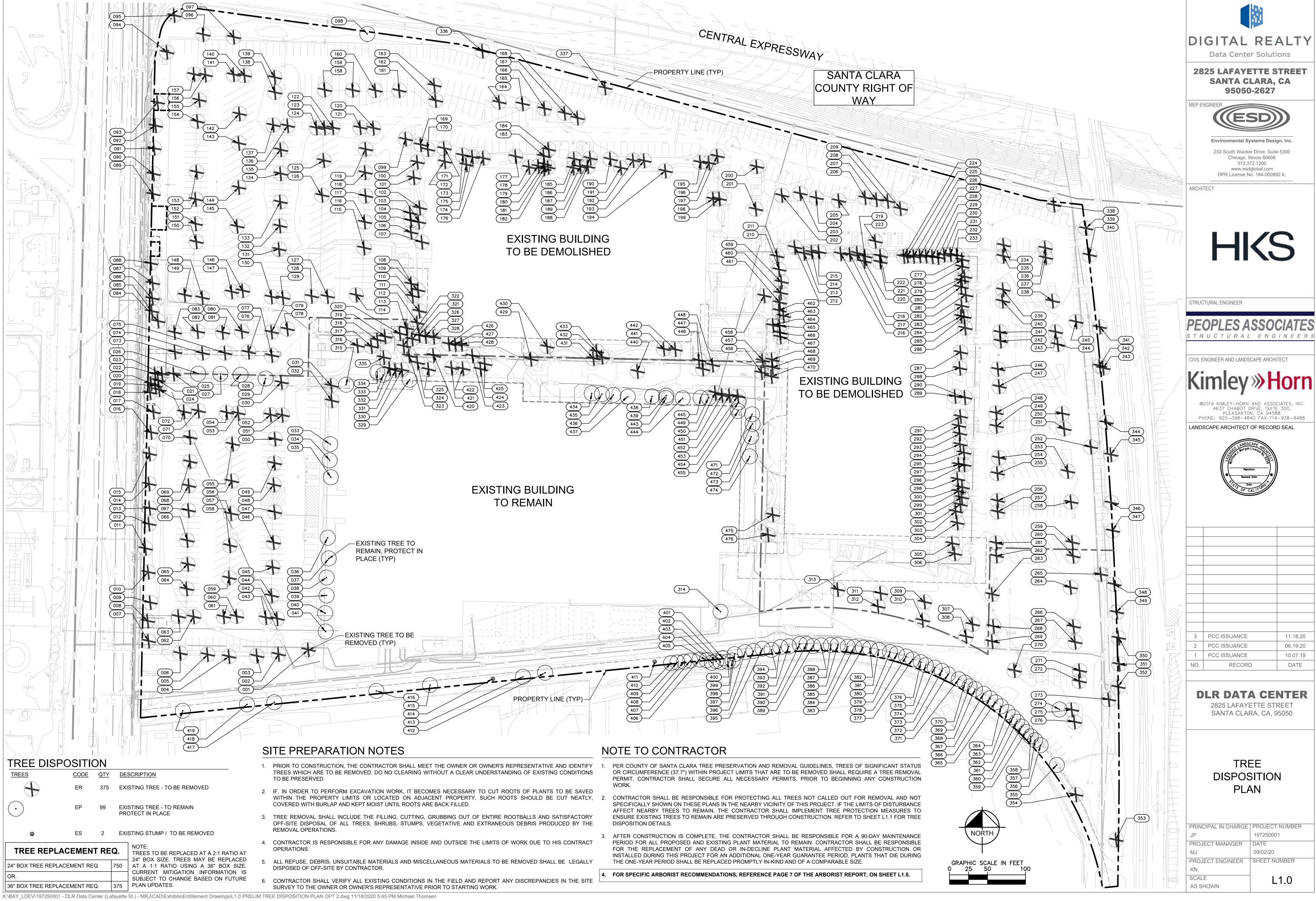
SCALE

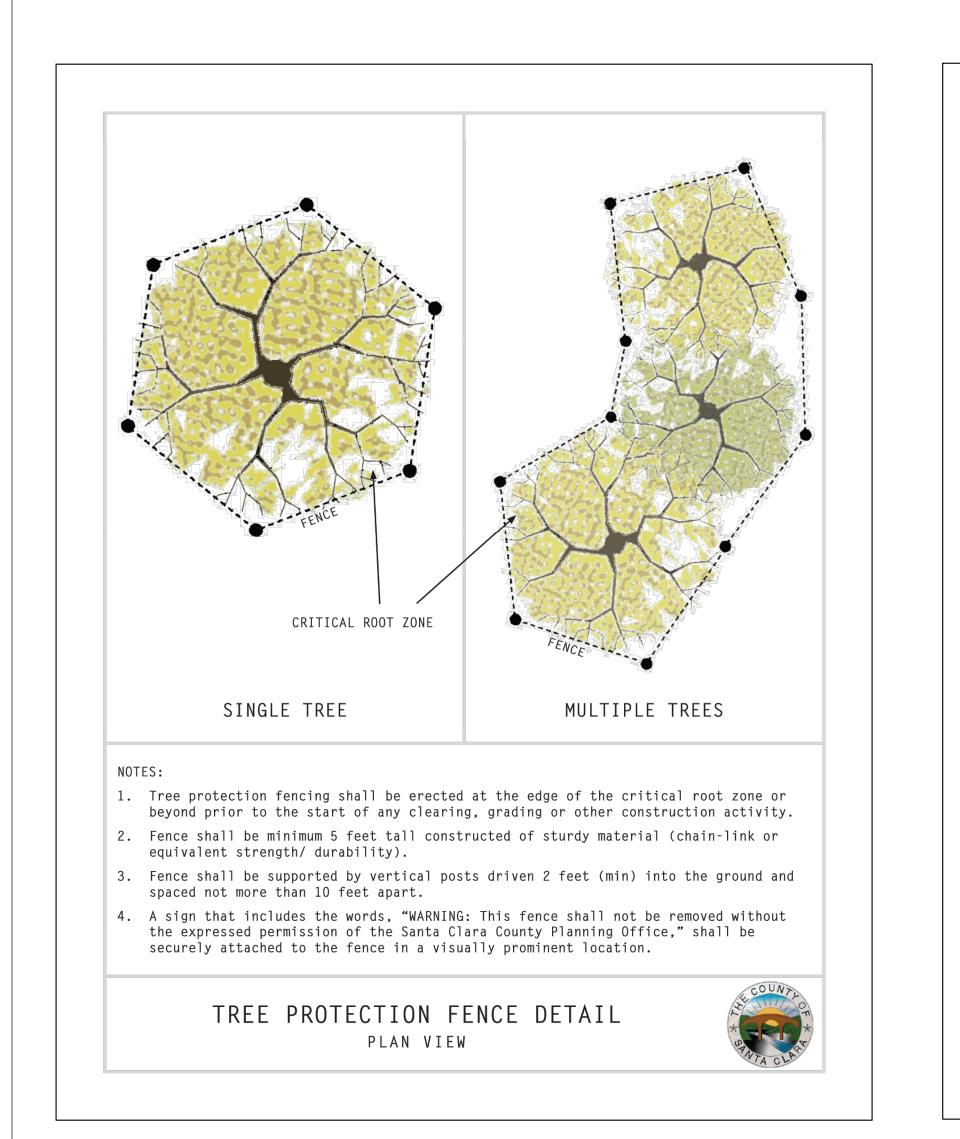
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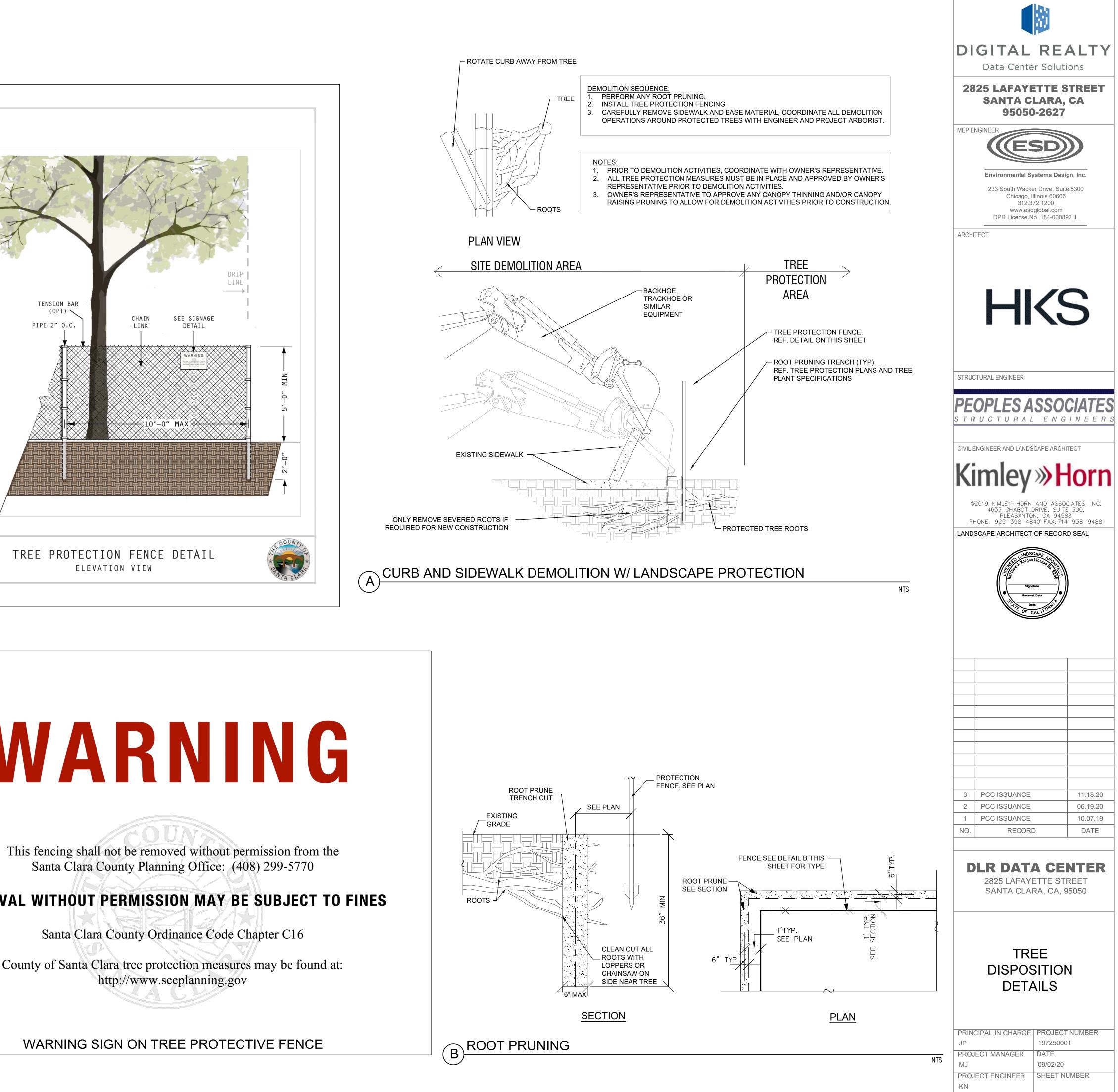


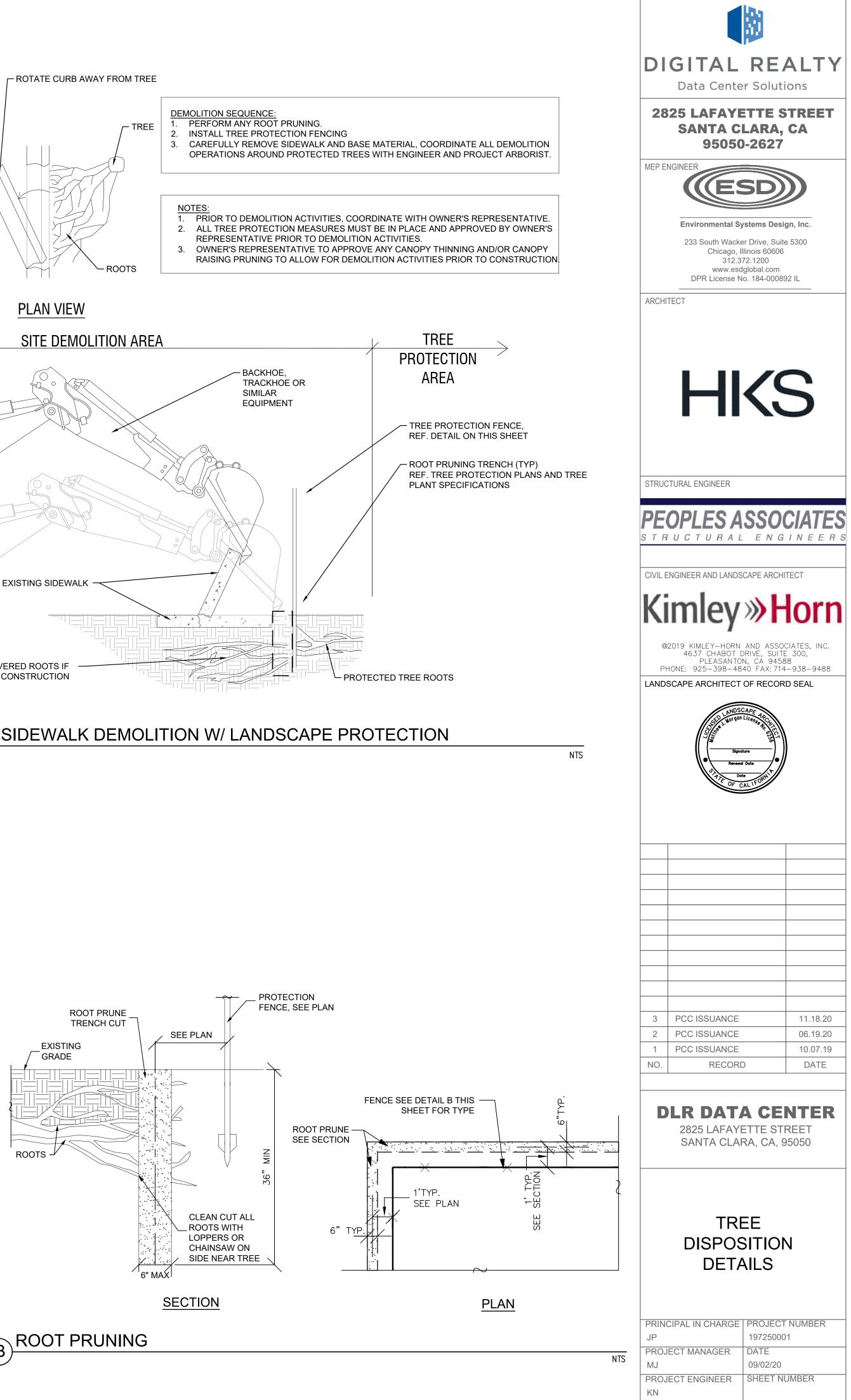
FENCING: ALL TREES TO BE RETAINED SHALL BE PROTECTED WITH CHAIN LINK FENCING OR OTHER RIGID FENCE ENCLOSURE ACCEPTABLE BY THE PLANNING OFFICE, FENCED ENCLOSURES FOR TREES TO BE PROTECTED SHALL BE ERECTED AT THE DRIPLINE OF TREES OR AS ESTABLISHED BY THE ARBORIST TO ESTABLISH THE TREE PROTECTIVE ZONE (TPZ) IN WHICH NO SOIL DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED. ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH MINIMUM 5-FOOT HIGH FENCES ARE TO BE MOUNTED ON 2-INCH DIAMETER GALVANIZED IRON POSTS, DRIVEN INTO THE GROUND TO A DEPTH OF AT LEAST 2 FEET, AT NO MORE THAN 10-FOOT SPACING (SEE DETAIL, AVAILABLE AT WWW.SCCPLANNING.ORG), THIS DETAIL SHALL APPEAR ON GRADING, DEMOLITION AND BUILDING PERMIT PLANS. TREE FENCING SHALL BE ERECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION "WARNING" SIGNS (SEE SAMPLE SIGNAGE DESIGN THIS SHEET): A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH TREE PROTECTIVE FENCE PER THE REQUIREMENTS OF DEVELOPMENT PURSUANT TO THE SANTA CLARA COUNTY PLANNING OFFICE. (SEE ATTACHED EXAMPLE). THE SIGNS ARE AVAILABLE AT THE PLANNING AND BUILDING INSPECTION OFFICES OR AT WWW.SCCPLANNING.ORG. IRRIGATION PROGRAM: IRRIGATE TO WET THE SOIL WITHIN THE TPZ DURING THE DRY SEASON AS SPECIFIED BY THE PROJECT ARBORIST. DUST CONTROL PROGRAM DURING PERIODS OF EXTENDED DROUGHT, OR GRADING, SPRAY TRUNK, LIMBS AND FOLIAGE TO REMOVE ACCUMULATED CONSTRUCTION DUST.



REMOVAL WITHOUT PERMISSION MAY BE SUBJECT TO FINES

County of Santa Clara tree protection measures may be found at: http://www.sccplanning.gov





SCALE AS SHOWN

L1.1

	<u>EE INVEN</u>	ORY	1	TDZ ve dive		
Tree #	Species	Latin Name	DBH (in.)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Disposition
1	Evergreen pear	Pyrus kawakamii	17	21.3	Driveway	REMOVE
2	London plane	Platanus x acerifolia	8.9	8.9	Driveway	REMOVE
3	London plane	Platanus x acerifolia	8.5	8.5	Driveway	REMOVE
4	London plane	Platanus x acerifolia	11.9	11.9	Driveway	REMOVE
5	London plane	Platanus x acerifolia	8.2	8.2	Driveway	REMOVE
6	London plane	Platanus x acerifolia	8.6	8.6	Driveway	REMOVE
7	London plane	Platanus x acerifolia	13.4	13.4	Transmission Lines	REMOVE
8	London plane	Platanus x acerifolia	12.8	12.8	Transmission Lines	REMOVE
9	London plane	Platanus x acerifolia	9.2	9.2	Transmission Lines	REMOVE
10	London plane	Platanus x acerifolia	8.8	8.8	Transmission Lines	REMOVE
11	London plane London plane	Platanus x acerifolia	11	11	Transmission Lines	REMOVE
12 13	London plane	Platanus x acerifolia Platanus x acerifolia	12.9 13.1	12.9 13.1	Transmission Lines	REMOVE REMOVE
15	London plane	Platanus x acerifolia	11.6	11.6	Transmission Lines	REMOVE
14	London plane	Platanus x acerifolia	11.0	11.0	Transmission Lines	REMOVE
15	London plane	Platanus x acerifolia	11.9	11.9	Transmission Lines	REMOVE
17	London plane	Platanus x acerifolia	13.3	13.3	Transmission Lines	REMOVE
18	Purple-leaf plum	Prunus cerasifera	5.9	5.9	Transmission Lines	REMOVE
19	Purple-leaf plum	Prunus cerasifera	5.3	5.3	Transmission Lines	REMOVE
20	Purple-leaf plum	Prunus cerasifera	6.3	6.3	Transmission Lines	REMOVE
21	Purple-leaf plum	Prunus cerasifera	4.8	4.8	Transmission Lines	REMOVE
22	Purple-leaf plum	Prunus cerasifera	6.7	6.7	Transmission Lines	REMOVE
23	Purple-leaf plum	Prunus cerasifera	6.8	6.8	Substation	REMOVE
24	London plane	Platanus x acerifolia	13.1	13.1	Substation	REMOVE
25	London plane	Platanus x acerifolia	9.2	9.2	Substation	REMOVE
26	London plane	Platanus x acerifolia	8	8	None	Retain
27	London plane	Platanus x acerifolia	6.9	6.9	None	Retain
28	London plane	Platanus x acerifolia	11.1	11.1	None	Retain
29	London plane	Platanus x acerifolia	11	11	None	Retain
30	London plane	Platanus x acerifolia	11	11	Civil Improvement	REMOVE
31	London plane	Platanus x acerifolia	14.4	14.4	Retention Area	REMOVE
32	London plane	Platanus x acerifolia	12.5	15.6	Retention Area	REMOVE
33	London plane	Platanus x acerifolia	15.4	15.4	None	Retain
34	London plane	Platanus x acerifolia	13	13	None	Retain
35	London plane	Platanus x acerifolia	15.7	15.7	None	Retain
36	London plane	Platanus x acerifolia	15	15	None	Retain
37	London plane	Platanus x acerifolia	14.8	14.8	None	Retain
38	London plane London plane	Platanus x acerifolia	14.1	14.1	None	Retain
39	London plane	Platanus x acerifolia	14.9	14.9	None	Retain
40 41	London plane	Platanus x acerifolia Platanus x acerifolia	11.1 12.8	11.1 12.8	None None	Retain
41	London plane	Platanus x acerifolia	5.9	5.9	Driveway	Retain REMOVE
42 43	London plane	Platanus x acerifolia	7.6	7.6	Substation	REMOVE
44	Raywood ash	Fraxinus angustifolia 'Raywood'	10.4	13	Substation	REMOVE
45	, Raywood ash	Fraxinus angustifolia 'Raywood'	13.5	16.9	Substation	REMOVE
46	Raywood ash	Fraxinus angustifolia 'Raywood'	10.8	13.5	Substation	REMOVE
47	Raywood ash	Fraxinus angustifolia 'Raywood'	12.1	15.1	Substation	REMOVE
48	Raywood ash	Fraxinus angustifolia 'Raywood'	12	15	Substation	REMOVE
49	Raywood ash	Fraxinus angustifolia 'Raywood'	10.1	12.6	Substation	REMOVE
50	Raywood ash	Fraxinus angustifolia 'Raywood'	12.6	15.8	Substation	REMOVE
51	London plane	Platanus x acerifolia	8.7	10.9	Substation	REMOVE
52	London plane	Platanus x acerifolia	7.2	9	Substation	REMOVE
53	London plane	Platanus x acerifolia	9.3	9.3	Substation	REMOVE
54	London plane	Platanus x acerifolia	6.8	6.8	Substation	REMOVE
55	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	12.3	Substation	REMOVE
56	Raywood ash	Fraxinus angustifolia 'Raywood'	13.4	16.8	Substation	REMOVE
57	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	16.4	Substation	REMOVE
58	Raywood ash	Fraxinus angustifolia 'Raywood'	7.5	9.4	Substation	REMOVE
59	Raywood ash	Fraxinus angustifolia 'Raywood'	2.1	2.1	Substation	REMOVE
60	London plane	Platanus x acerifolia	5.8	5.8	Substation	REMOVE
61	London plane	Platanus x acerifolia	5.1	5.1	Substation	REMOVE
62	London plane	Platanus x acerifolia	5.6	5.6	Substation	REMOVE
63	London plane	Platanus x acerifolia	7.5	7.5	Substation	REMOVE
64	Raywood ash	Fraxinus angustifolia 'Raywood'	3.8	4.8	Substation	REMOVE
65	Raywood ash	Fraxinus angustifolia 'Raywood'	3	3.8	Substation	REMOVE
66	Raywood ash	Fraxinus angustifolia 'Raywood'	5.6	7	Substation	REMOVE
67	Raywood ash	Fraxinus angustifolia 'Raywood'	7.8	9.8	Substation	REMOVE
68 60	Raywood ash Raywood ash	Fraxinus angustifolia 'Raywood' Fraxinus angustifolia 'Raywood'	8.7	10.9	Substation	
69 70	Raywood ash Raywood ash	Fraxinus angustifolia 'Raywood'	8.1	10.1	Substation Driveway	
70 71	London plane		9.2	11.5 o	Driveway	
/1 72	London plane	Platanus x acerifolia Platanus x acerifolia	6.4 8	8	Driveway	REMOVE REMOVE
72 73	London plane	Platanus x acerifolia Platanus x acerifolia	8 9.5	8 9.5	Driveway	REMOVE
73 74	London plane	Platanus x acerifolia Platanus x acerifolia	9.5 8.7	9.5 8.7	Driveway	REMOVE
74 75	London plane	Platanus x acerifolia Platanus x acerifolia	8.7 6.9	6.9	Driveway	REMOVE
75 76	London plane	Platanus x acerifolia Platanus x acerifolia	9.9	9.9	Driveway	REMOVE
76 77	London plane	Platanus x acerifolia Platanus x acerifolia	9.9	9.9	Driveway	REMOVE
// 78	London plane	Platanus x acerifolia	7.7	7.7	Driveway	REMOVE
78 79	London plane	Platanus x acerifolia	10.1	10.1	Driveway	REMOVE
80	London plane	Platanus x acerifolia	10.1	10.1	Driveway	REMOVE
81	London plane	Platanus x acerifolia	8.1	8.1	Driveway	REMOVE
82	London plane	Platanus x acerifolia	8.5	8.5	Driveway; PL fence	REMOVE
83	London plane	Platanus x acerifolia	8	8	Driveway; PL fence	REMOVE
	London plane	Platanus x acerifolia	10	10	Transmission Lines	REMOVE

Disposition

Transmission Lines REMOVE

K:\BAY_LDEV\197250001 - DLR Data Center (Lafayette St.) - MRJ\CAD\Exhibits\Entitlement Drawings\L1.0 PRELIM TREE DISPOSITION PLAN OPT 2.dwg 11/18/2020 5:45 PM Michael.Thomsen

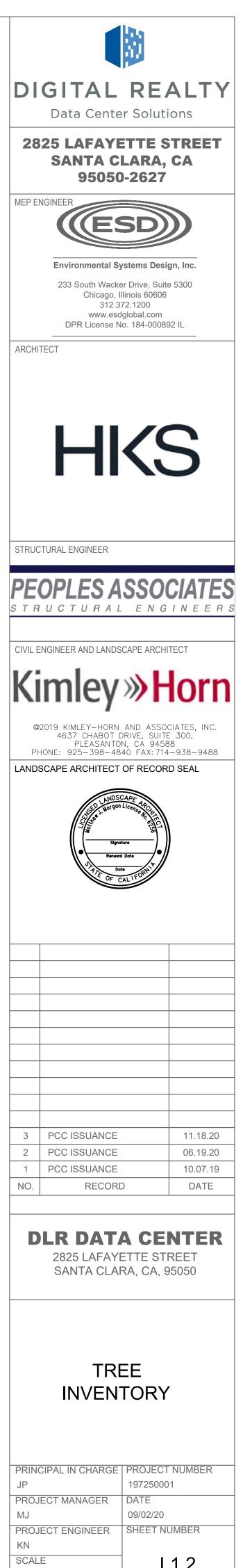
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84 London plane Platanus x acerifolia

85	London plane	Platanus x acerifolia	9.6	9.6	Transmission Lines	REM
86	London plane	Platanus x acerifolia	9.2	9.2	Transmission Lines	REM
	London plane					
87	London plane	Platanus x acerifolia	10.9	10.9	Transmission Lines	REM
88		Platanus x acerifolia	14.9	14.9	Transmission Lines	REM
89	London plane	Platanus x acerifolia	8.2	8.2	Transmission Lines	REM
90	London plane	Platanus x acerifolia	12.4	12.4	Transmission Lines	REM
91	London plane	Platanus x acerifolia	14.6	14.6	Transmission Lines	REM
92	London plane	Platanus x acerifolia	15	15	Transmission Lines	REIV
93	London plane	Platanus x acerifolia	15.6	15.6	Transmission Lines	REIV
94	London plane	Platanus x acerifolia	16.2	16.2	Transmission Lines	REIV
95	London plane	Platanus x acerifolia	19	19	Transmission Lines	REN
96	London plane	Platanus x acerifolia	12	12	Driveway	REM
97	London plane	Platanus x acerifolia	16	16	Driveway	REN
98	Weeping willow	Salix babylonica	35.5	26.6	None	Reta
	Hackberry	Celtis sp.			Building	
99	-	•	9.4	7.1	-	REN
100	Crape myrtle	Lagerstroemia indica	6.8	5.1	Building	REN
101	Crape myrtle	Lagerstroemia indica	6.8	5.1	Building	REN
102	Callery pear	Pyrus calleryana	8.5	6.4	Building	REN
103	African fern pine	Afrocarpus gracilior	9.7	4.9	Building	REIV
104	Callery pear	Pyrus calleryana	7.4	5.6	Building	REIV
105	Callery pear	Pyrus calleryana	7.3	5.5	Building	REN
106	Crape myrtle	Lagerstroemia indica	3.6	3.6	Building	REM
107	Ornamental cherry	Prunus sp.	4.6	5.8	Building	REM
108	Crape myrtle	Lagerstroemia indica	5.5	4.1	Generator yard	REN
108	African fern pine	Afrocarpus gracilior	8.4	4.1	Generator yard	REN
	Crape myrtle	Lagerstroemia indica			Generator yard	
110			5.4	4.1		REM
111	Callery pear	Pyrus calleryana	7.8	5.9	Generator yard	REM
112	Crape myrtle	Lagerstroemia indica	6.2	4.7	Generator yard	REM
113	Callery pear	Pyrus calleryana	10.3	7.7	Generator yard	REN
114	London plane	Platanus x acerifolia	15.5	19.4	Generator yard	REM
115	London plane	Platanus x acerifolia	10	10	Generator yard	REM
116	London plane	Platanus x acerifolia	14.9	18.6	Building	REM
117	London plane	Platanus x acerifolia	10.2	12.8	Building	REM
118	London plane	Platanus x acerifolia	9.7	9.7	Building	REM
	London plane				Building	
119	-	Platanus x acerifolia	8.9	8.9	-	REN
120	Green ash	Fraxinus pennsylvanica	12.8	9.6	Building	REN
121	Green ash	Fraxinus pennsylvanica	12.8	9.6	Building	REN
122	Green ash	Fraxinus pennsylvanica	10.7	8	Building	REN
123	Green ash	Fraxinus pennsylvanica	8.4	6.3	Building	REN
124	Green ash	Fraxinus pennsylvanica	8.5	6.4	Building	REN
125	London plane	Platanus x acerifolia	4.8	7.2	Building	REN
126	London plane	Platanus x acerifolia	14.7	14.7	Building	REN
127	London plane	Platanus x acerifolia	13.1	13.1	Generator yard	REN
128	London plane	Platanus x acerifolia	13.2	13.2	Generator yard	REN
129	London plane	Platanus x acerifolia	7.9	7.9	Generator yard	REN
130	London plane	Platanus x acerifolia	9.2	9.2	Building	REN
130	London plane	Platanus x acerifolia		14.6	Generator yard	REN
	London plane		14.6		Generator yard	
132		Platanus x acerifolia	11.9	11.9		REN
133	London plane	Platanus x acerifolia	8.3	8.3	Building	REN
134	London plane	Platanus x acerifolia	13	13	Building	REN
135	London plane	Platanus x acerifolia	11.9	11.9	Building	REN
136	Green ash	Fraxinus pennsylvanica	11.6	8.7	Building	REN
137	Green ash	Fraxinus pennsylvanica	13.5	10.1	Building	REN
138	Green ash	Fraxinus pennsylvanica	9.9	7.4	Building	REN
139	Green ash	Fraxinus pennsylvanica	18.3	9.2	Building	REN
140	Green ash	Fraxinus pennsylvanica	12.3	9.2	Driveway	REN
141	Green ash	Fraxinus pennsylvanica	12.8	9.6	Driveway	REN
142	London plane	Platanus x acerifolia	10	10	Driveway	REN
142	London plane	Platanus x acerifolia	15.3	15.3	Building	REN
	London plane				Building	
144	London plane	Platanus x acerifolia	7.2	7.2	Building	REN
145		Platanus x acerifolia	12.3	12.3	-	REN
146	London plane	Platanus x acerifolia	9.5	9.5	Driveway	REN
147	London plane	Platanus x acerifolia	8.9	8.9	Driveway	REN
148	London plane	Platanus x acerifolia	9.9	9.9	Driveway	REN
149	London plane	Platanus x acerifolia	9.5	9.5	Driveway	REN
150	London plane	Platanus x acerifolia	13.9	13.9	Building	REN
	London plane	Platanus x acerifolia	10.1	10.1	Driveway	REN
151	London plane	Platanus x acerifolia	10.5	10.5	Driveway	REN
151 152					, Driveway	REN
	London plane	Platanus x acerifolia	12.1	12.1	· ·	1
152 153	London plane				Drivewav	RFN
152 153 154	London plane London plane	Platanus x acerifolia	6.3	6.3	Driveway Driveway	
152 153 154 155	London plane London plane London plane	Platanus x acerifolia Platanus x acerifolia	6.3 10.3	6.3 10.3	Driveway	REN
152 153 154 155 156	London plane London plane London plane Green ash	Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica	6.3 10.3 15.3	6.3 10.3 7.7	Driveway Driveway	REN REN
152 153 154 155 156 157	London plane London plane London plane Green ash Green ash	Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica	6.310.315.36.4	6.3 10.3 7.7 4.8	Driveway Driveway Driveway	REN REN REN
152 153 154 155 156 157 158	London plane London plane London plane Green ash Green ash London plane	Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica Platanus x acerifolia	 6.3 10.3 15.3 6.4 11.2 	 6.3 10.3 7.7 4.8 11.2 	Driveway Driveway Driveway Building	REN REN REN
152 153 154 155 156 157	London plane London plane London plane Green ash Green ash London plane London plane	Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica	6.310.315.36.4	6.3 10.3 7.7 4.8	Driveway Driveway Driveway Building Building	REM REM REM
152 153 154 155 156 157 158	London plane London plane London plane Green ash Green ash London plane	Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica Platanus x acerifolia	 6.3 10.3 15.3 6.4 11.2 	 6.3 10.3 7.7 4.8 11.2 	Driveway Driveway Driveway Building	REN REN REN REN
152 153 154 155 156 157 158 159	London plane London plane London plane Green ash Green ash London plane London plane	 Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica Platanus x acerifolia Platanus x acerifolia 	 6.3 10.3 15.3 6.4 11.2 7.5 	6.3 10.3 7.7 4.8 11.2 7.5	Driveway Driveway Driveway Building Building	REN REN REN REN REN
152 153 154 155 156 157 158 159 160	London plane London plane London plane Green ash Green ash London plane London plane London plane	 Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica Platanus x acerifolia Platanus x acerifolia Platanus x acerifolia 	 6.3 10.3 15.3 6.4 11.2 7.5 12.2 	6.3 10.3 7.7 4.8 11.2 7.5 12.2	Driveway Driveway Driveway Building Building Building	REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane	 Platanus x acerifolia Platanus x acerifolia Fraxinus pennsylvanica Fraxinus pennsylvanica Platanus x acerifolia Platanus x acerifolia Platanus x acerifolia Platanus x acerifolia 	 6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9	Driveway Driveway Driveway Building Building Building Building	REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	 6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7	Driveway Driveway Driveway Building Building Building Building Building	REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163 164	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 15.9	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7 15.9	Driveway Driveway Driveway Building Building Building Building Building Driveway Building	REN REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163 164 165	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9	Driveway Driveway Driveway Building Building Building Building Building Driveway Building Building	REN REN REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5	Driveway Driveway Driveway Building Building Building Building Building Driveway Building Building Building Building	REN REN REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5 15.4	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5 15.4	Driveway Driveway Driveway Building Building Building Building Building Driveway Building Building Building Building Building	REN REN REN REN REN REN REN REN REN REN
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	London plane London plane London plane Green ash Green ash London plane London plane London plane London plane London plane London plane London plane London plane London plane	Platanus x acerifoliaPlatanus x acerifoliaFraxinus pennsylvanicaFraxinus pennsylvanicaPlatanus x acerifoliaPlatanus x acerifolia	6.3 10.3 15.3 6.4 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5	6.3 10.3 7.7 4.8 11.2 7.5 12.2 13.9 13.7 8.7 15.9 11.9 8.5	Driveway Driveway Driveway Building Building Building Building Building Driveway Building Building Building Building	REN REN REN REN REN REN REN REN REN REN

171	African fern pine Bay laurel	Afrocarpus gracilior	10	5	Building Building	REMO
172		Laurus nobilis	12.8	9.6	-	REMO
173	Eastern redbud	Cercis canadensis	9.7	7.3	Building	REMO
174	Eastern redbud	Cercis canadensis	12.3	9.2	Building	REMO
175	Hackberry	Celtis sp.	7	5.3	Building	REMO
176	Hackberry	Celtis sp.	6.8	5.1	Building	REMO
177	Japanese maple	Acer palmatum	4.5	3.4	Building	REMO
178	Japanese maple	Acer palmatum	5	3.8	Building	REMO
179	Japanese maple	Acer palmatum	6.7	5	Building	REMO
180	Japanese maple	Acer palmatum	8.8	6.6	Building	REMO
181	Philodendron	Philodendron sp.	9	6.8	Building	REMO
182	Japanese maple	Acer palmatum	4.5	3.4	Building	REMO
	Weeping cherry		-		Building	
183		Prunus subhirtella 'Pendula'	5	6.3	-	REMO
184	Weeping cherry	Prunus subhirtella 'Pendula'	6	0	N/A (dead)	REMO
185	Weeping cherry	Prunus subhirtella 'Pendula'	4.8	3.6	Building	REMO
186	Japanese maple	Acer palmatum	4.9	3.7	Building	REMO
187	Japanese maple	Acer palmatum	6.3	4.7	Building	REMO
188	Japanese maple	Acer palmatum	6.7	5	Building	REMO
189	Hackberry	Celtis sp.	5.4	4.1	Building	REMO
190	Hackberry	Celtis sp.	7.8	5.9	Building	REMO
191	Hackberry	Celtis sp.	4.2	3.2	Building	REMO
192	Eastern redbud	Cercis canadensis	11.5	8.6	Building	REMO
193	Eastern redbud	Cercis canadensis	11	8.3	Building	REMO
193 194	bay laurel		7.3	5.5	Building	REMO
	Crape myrtle	Lagerstroemia indica	_	5.5	Building	
195			6.6		-	REMO
196	Crape myrtle	Lagerstroemia indica	6.6	5	Building	REMO
197	Hackberry	Celtis sp.	7	5.3	Building	REMO
198	African fern pine	Afrocarpus gracilior	9.9	5	Building	REMO
199	Hackberry	Celtis sp.	11	8.3	Building	REMO
200	Evergreen pear	Pyrus kawakamii	13.1	16.4	Building	REMO
201	Evergreen pear	Pyrus kawakamii	12.7	15.9	Building	REMO
202	Raywood ash	Fraxinus angustifolia 'Raywood'	10	12.5	Building	REMO
203	Chinese pistache	Pistacia chinensis	9.3	4.7	Building	REMO
204	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	10.6	Building	REMO
	Raywood ash	Fraxinus angustifolia 'Raywood'	-		Building	
205	Evergreen pear	Pyrus kawakamii	9.5	11.9	Building	REMO
206		•	11.8	17.7	-	REMO
207	Evergreen pear	Pyrus kawakamii	10.1	12.6	Building	REMO
208	Evergreen pear	Pyrus kawakamii	11.9	14.9	Building	REMO
209	Evergreen pear	Pyrus kawakamii	10.2	15.3	Building	REMO
210	Unknown	Unknown sp.	6.3	6.3	Building	REMO
211	Unknown	Unknown sp.	5.1	5.1	Building	REMO
212	White birch	Betula pendula	7.2	9	Building	REMO
213	White birch	Betula pendula	9.1	9.1	Building	REMO
214	White birch	Betula pendula	5.4	5.4	Building	REMO
215	White birch	Betula pendula	7	7	Building	REMO
216	Japanese maple	Acer palmatum	6	4.5	Building	REMO
210	Japanese maple	Acer palmatum	5.4	4.1	Building	REMO
217	Japanese maple	Acer palmatum	6	4.5	Building	REMO
	Weeping cherry		-		Building	
219		Prunus subhirtella 'Pendula'	6	4.5	-	REMO
220	Japanese maple	Acer palmatum	4.3	3.2	Building	REMO
221	Japanese maple	Acer palmatum	7	5.3	Building	REMO
222	Weeping cherry	Prunus subhirtella 'Pendula'	4.5	3.4	Building	REMO
223	Ornamental cherry	Prunus sp.	4.8	4.8	Building	REMO
224	White birch	Betula pendula	6.6	6.6	Building	REMO
225	White birch	Betula pendula	8.1	8.1	Building	REMO
226	Japanese maple	Acer palmatum	5	3.8	Building	REMO
227	White birch	Betula pendula	6.6	6.6	Building	REMO
228	White birch	Betula pendula	7.1	7.1	Building	REMO
228	Japanese maple	Acer palmatum	5.9	5.9	Building	REMO
	Japanese maple	Acer palmatum			Building	
230	Japanese maple	Acer palmatum	4.4	4.4	Building	REMO
231			6	4.5	-	REMO
232	Crape myrtle	Lagerstroemia indica	5.8	4.4	Building	REMO
233	Crape myrtle	Lagerstroemia indica	5.6	4.2	Building	REMO
234	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	12.3	Building	REMO
235	Raywood ash	Fraxinus angustifolia 'Raywood'	13.2	16.5	Building	REMO
236	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Driveway	REMO
237	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	10.6	Driveway	REMO
238	Evergreen pear	Pyrus kawakamii	5.3	6.6	Building	REMO
239	Evergreen pear	Pyrus kawakamii	12	15	Building	REMO
240	Evergreen pear	Pyrus kawakamii	12.8	16	Building	REMO
241	Raywood ash	Fraxinus angustifolia 'Raywood'	14.7	18.4	Building	REMO
241	Raywood ash	Fraxinus angustifolia 'Raywood'	14.7	16.1	Building	REMO
	+ -	Fraxinus pennsylvanica	-		Driveway	
243	Green ash	· ·	8	4		REMO
244	Raywood ash	Fraxinus angustifolia 'Raywood'	5.5	6.9	Driveway	REMO
245	London plane	Platanus x acerifolia	16.8	16.8	Driveway	REMO
246	Evergreen pear	Pyrus kawakamii	13.2	16.5	Building	REMO
247	Chinese pistache	Pistacia chinensis	4.8	2.4	Building	REMO
248	Chinese pistache	Pistacia chinensis	5.6	2.8	Building	REMO
249	Chinese pistache	Pistacia chinensis	5.6	2.8	Generator yard	REMO
250	Raywood ash	Fraxinus angustifolia 'Raywood'	10.7	13.4	Driveway	REMO
251	Raywood ash	Fraxinus angustifolia 'Raywood'	12.2	15.3	Driveway	REMO
	London plane	Platanus x acerifolia	9.7	12.1	Transmission Line	REMO
252					Driveway	REMO
252	Evergreen near	Pyrus kawakamii			I LATENCE CONTRACTOR	
252 253 254	Evergreen pear Chinese pistache	Pyrus kawakamii Pistacia chinensis	8.7	10.9 1.8	Generator yard	REMO



AS SHOWN

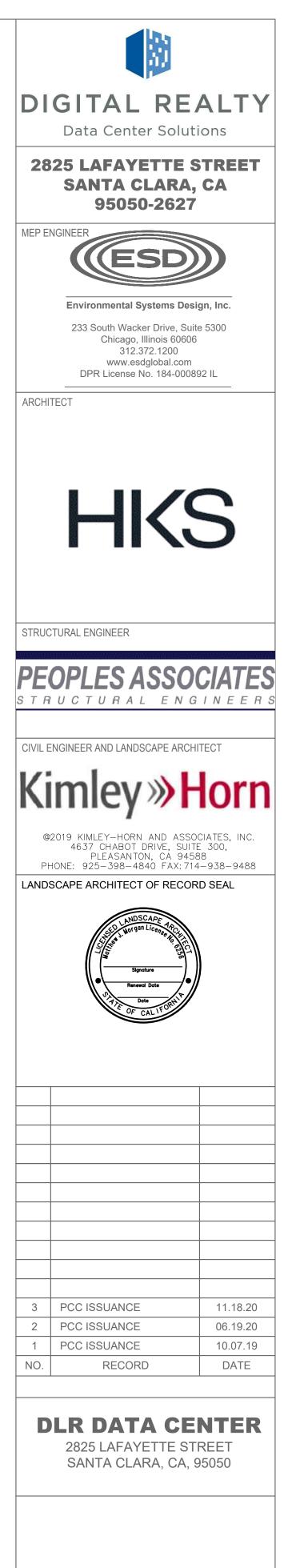
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	1	I	1		1	
256	Raywood ash	Fraxinus angustifolia 'Raywood'	16.8	21	Generator yard	REMOVE
257	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	16.4	Generator yard	REMOVE
258	Raywood ash	Fraxinus angustifolia 'Raywood'	6.8	8.5	Retention area	REMOVE
259	Evergreen pear	Pyrus kawakamii	14.7	18.4	Civil Improvement	REMOVE
260	Evergreen pear	Pyrus kawakamii	11.6	14.5	Civil Improvement	REMOVE
261	Evergreen pear	Pyrus kawakamii	16.6	20.8	Driveway	REMOVE
262	Evergreen pear	Pyrus kawakamii	15.8	19.8	Driveway	REMOVE
263	Raywood ash	Fraxinus angustifolia 'Raywood'	16.6	20.8	Driveway	REMOVE
264	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Transmission Lines	REMOVE
265	London plane	Platanus x acerifolia	8.2	10.3	Transmission Lines	REMOVE
266	Evergreen pear	Pyrus kawakamii	15.1	18.9	Transmission Lines	REMOVE
267	Evergreen pear	Pyrus kawakamii	12.6		Transmission Lines	REMOVE
268	Evergreen pear	Pyrus kawakamii	4.8	6	Driveway	REMOVE
269	Evergreen pear	Pyrus kawakamii	14.3	17.9	Driveway	REMOVE
270	Raywood ash	Fraxinus angustifolia 'Raywood'	16.1	20.1	Driveway	REMOVE
271	Raywood ash	Fraxinus angustifolia 'Raywood'	13.8	20.7	Transmission Lines	REMOVE
272	Raywood ash	Fraxinus angustifolia 'Raywood'	13.6	17	Transmission Lines	REMOVE
273	London plane	Platanus x acerifolia	8.9	8.9	Transmission Lines	REMOVE
274	Raywood ash	Fraxinus angustifolia 'Raywood'	13	16.3	None	Retain
275	Raywood ash	Fraxinus angustifolia 'Raywood'	9.2	13.8	Transmission Lines	REMOVE
	Raywood ash	Fraxinus angustifolia 'Raywood'				
276	· ·		12.1	15.1	Transmission Lines	REMOVE
277	Crape myrtle	Lagerstroemia indica	5.1	3.8	Building	REMOVE
278	Crape myrtle	Lagerstroemia indica	5.4	4.1	Building	REMOVE
279	Crape myrtle	Lagerstroemia indica	5.9	4.4	Building	REMOVE
280	Crape myrtle	Lagerstroemia indica	4.3	3.2	Building	REMOVE
281	Crape myrtle	Lagerstroemia indica	5.5	4.1	Building	REMOVE
282	African fern pine	Afrocarpus gracilior	6.2	3.1	Building	REMOVE
283	African fern pine	Afrocarpus gracilior	8.1	4.1	Building	REMOVE
284	African fern pine	Afrocarpus gracilior	8.5	4.3	Building	REMOVE
285	African fern pine	Afrocarpus gracilior	8.9	4.5	Building	REMOVE
286	African fern pine	Afrocarpus gracilior	7.7	3.9	Building	REMOVE
287	Ornamental cherry	Prunus sp.	4	4	Building	REMOVE
88	Ornamental cherry	Prunus sp.	4.4	4.4	Building	REMOVE
89	Smoke tree	Cotinus coggygria	5.8	4.4	Building	REMOVE
290	Smoke tree	Cotinus coggygria	6	4.5	Building	REMOVE
91	Crape myrtle	Lagerstroemia indica	6.1	4.6	Building	REMOVE
92	Crape myrtle	Lagerstroemia indica	5.1	3.8	Building	REMOVE
293	Crape myrtle	Lagerstroemia indica	6	4.5	Generator yard	REMOVE
294	African fern pine	Afrocarpus gracilior	9	4.5	Generator yard	REMOVE
295	Crape myrtle	Lagerstroemia indica	5.8	4.4	Generator yard	REMOVE
<u>.95</u> 296	Crape myrtle	Lagerstroemia indica	7.2	5.4	Generator yard	REMOVE
290	African fern pine	Afrocarpus gracilior		4.5	Generator yard	
	African fern pine	Afrocarpus gracilior	8.9		Generator yard	REMOVE
298			9	4.5		REMOVE
299	African fern pine	Afrocarpus gracilior	6.9	3.5	Generator yard	REMOVE
300	Crape myrtle	Lagerstroemia indica	5.7	4.3	Generator yard	REMOVE
301	Crape myrtle	Lagerstroemia indica	5.1	3.8	Generator yard	REMOVE
302	Crape myrtle	Lagerstroemia indica	5.2	3.9	Generator yard	REMOVE
303	Ornamental cherry	Prunus sp.	4.2	3.2	Generator yard	REMOVE
804	African fern pine	Afrocarpus gracilior	10.8	5.4	Driveway	REMOVE
305	Pygmy date palm	Phoenix robelenii	4.6	4.6	Driveway	REMOVE
806	Pygmy date palm	Phoenix robelenii	4.5	4.5	Driveway	REMOVE
807	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Driveway	REMOVE
808	Chinese pistache	Pistacia chinensis	14.1	7.1	Driveway	REMOVE
809	Evergreen pear	Pyrus kawakamii	14.7	18.4	Driveway	REMOVE
810	Evergreen pear	Pyrus kawakamii	15	18.8	Driveway	REMOVE
311	Evergreen pear	Pyrus kawakamii	10.8	13.5	Driveway	REMOVE
312	Evergreen pear	Pyrus kawakamii	15.4	19.3	Driveway	REMOVE
13	Raywood ash	Fraxinus angustifolia 'Raywood'	18.3	22.9	Driveway	REMOVE
14	Chinese pistache	Pistacia chinensis	5.1	2.6	None	Retain
15	Crape myrtle	Lagerstroemia indica	4.5	3.4	None	Retain
,1 <u>5</u> 816	Weeping willow	Salix babylonica	15.8	11.9	Driveway	REMOVE
,10 817	Ornamental cherry	Prunus sp.	8.9	6.7	Driveway	REMOVE
818	Ornamental cherry	Prunus sp.	11.2	8.4	Driveway	REMOVE
18 19	Ornamental cherry	Prunus sp.	7.4	8.4 5.6	Driveway	REMOVE
20	Ornamental cherry	Prunus sp.	6.2	3.0 4.7	Concrete path	REMOVE
	Ornamental cherry	Prunus sp.			Civil Improvement	
21	Ornamental cherry	·	5.4	4.1		REMOVE
22		Prunus sp.	9	6.8	Driveway	REMOVE
23	Ornamental cherry	Prunus sp.	8.8	6.6	Driveway	REMOVE
24	Ornamental cherry	Prunus sp.	10.1	7.6	Driveway	REMOVE
25	White birch	Betula pendula	10.3	10.3	Driveway	REMOVE
	China doll tree	Radermachera sinica	5.5	5.5	Driveway	REMOVE
26	China doll tree	Radermachera sinica	4.8	4.8	Driveway	REMOVE
		Radermachera sinica	6	6	Civil Improvement	REMOVE
27	China doll tree		11.1	8.3	None	Retain
27 28	China doll tree Ornamental cherry	Prunus sp.	11.1			
27 28 29		Prunus sp. Prunus sp.	17.8	13.4	Concrete path	REMOVE
327 328 329 330	Ornamental cherry	·			Concrete path Concrete path	REMOVE REMOVE
326 327 328 329 330 331 332	Ornamental cherry Ornamental cherry	Prunus sp.	17.8	13.4		
27 28 29 30 31	Ornamental cherry Ornamental cherry Ornamental cherry	Prunus sp. Prunus sp.	17.8 7.9	13.4 5.9	Concrete path	REMOVE

K:\BAY_LDEV\197250001 - DLR Data Center (Lafayette St.) - MRJ\CAD\Exhibits\Entitlement Drawings\L1.0 PRELIM TREE DISPOSITION PLAN OPT 2.dwg 11/18/2020 5:45 PM Michael.Thomsen

35	Ornamental cherry	Prunus sp.	8.5	6.4	Driveway	REMOVE
36	Hackberry	Celtis sp.	4.1	3.1	Driveway	REMOVE
37	Peruvian pepper	Schinus molle	12	9	Driveway	REMOVE
38	London plane	Platanus x acerifolia	24	24	Transmission Lines	REMOVE
39	Red ironbark	Eucalyptus sideroxylon	15.1	15.1	Transmission Lines	REMOVE
40	Red ironbark	Eucalyptus sideroxylon	19.1	0	N/A (dead)	REMOVE
	Holly oak	, , ,				
41	-	Quercus ilex	10.2	5.1	Transmission Lines	REMOVE
42	Red ironbark	Eucalyptus sideroxylon	18.8	18.8	Transmission Lines	REMOVE
43	Peruvian pepper	Schinus molle	11.2	8.4	Transmission Lines	REMOVE
44	Red ironbark	Eucalyptus sideroxylon	19.2	19.2	Transmission Lines	REMOVE
45	Red ironbark	Eucalyptus sideroxylon	19.3	14.5	Transmission Lines	REMOVE
46	Red ironbark	Eucalyptus sideroxylon	23.7	11.9	Transmission Lines	REMOVE
47	Red ironbark	Eucalyptus sideroxylon	24.7	12.4	Transmission Lines	REMOVE
48	Blackwood acacia	Acacia melanoxylon	15.6	7.8	Transmission Lines	REMOVE
	Red ironbark	Eucalyptus sideroxylon	25.1	12.6	Transmission Lines	REMOVE
49 - 0						
50	Red ironbark	Eucalyptus sideroxylon	18.9	14.2	Transmission Lines	REMOVE
51	Red ironbark	Eucalyptus sideroxylon	30	15	Transmission Lines	REMOVE
52	Red ironbark	Eucalyptus sideroxylon	25.6	19.2	Transmission Lines	REMOVE
53	Evergreen pear	Pyrus kawakamii	18	18	Transmission Lines	REMOVE
54	Italian cypress	Cupressus sempervirens	12	9	Transmission Lines	REMOVE
55	Italian cypress	Cupressus sempervirens	13.8	10.4	None	Retain
56	Italian cypress	Cupressus sempervirens	12.5	9.4	None	Retain
57	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
58	Italian cypress	Cupressus sempervirens	9.5	7.1	None	Retain
59	Italian cypress	Cupressus sempervirens	8	6	None	Retain
50	Red ironbark	Eucalyptus sideroxylon	32.1	16.1	None	Retain
51	Italian cypress	Cupressus sempervirens	8	6	None	Retain
52	Italian cypress	Cupressus sempervirens	10	7.5	None	Retain
	Italian cypress	Cupressus sempervirens				
53			12	9	None	Retain
54	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
55	Italian cypress	Cupressus sempervirens	3	2.3	None	Retain
56	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
57	Italian cypress	Cupressus sempervirens	12	9	None	Retain
58	Italian cypress	Cupressus sempervirens	13	9.8	None	Retain
	Italian cypress	Cupressus sempervirens				
59			12	9	None	Retain
70	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
'1	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
/2	Italian cypress	Cupressus sempervirens	13.5	10.1	None	Retain
/3	Italian cypress	Cupressus sempervirens	12.3	9.2	None	Retain
3 74	Italian cypress	Cupressus sempervirens	11.3	8.5	None	Retain
	Italian cypress	Cupressus sempervirens				
75 16			11.7	8.8	None	Retain
76	Italian cypress	Cupressus sempervirens	12.1	9.1	None	Retain
77	Italian cypress	Cupressus sempervirens	12.2	9.2	None	Retain
78	Italian cypress	Cupressus sempervirens	11.1	8.3	None	Retain
79	Italian cypress	Cupressus sempervirens	10.9	8.2	None	Retain
30	Italian cypress	Cupressus sempervirens	10.5	7.9	None	Retain
31	Italian cypress	Cupressus sempervirens	12	9	None	Retain
32	Italian cypress	Cupressus sempervirens	11.2	8.4	None	Retain
33	Italian cypress	Cupressus sempervirens	12	9	None	Retain
34	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
35	Italian cypress	Cupressus sempervirens	9.9	7.4	None	Retain
36	Italian cypress	Cupressus sempervirens	6.7	5	None	Retain
37	Italian cypress	Cupressus sempervirens	7.4	5.6	None	Retain
	Italian cypress	Cupressus sempervirens				
88			8.9	6.7	None	Retain
39	Italian cypress	Cupressus sempervirens	10.4	7.8	None	Retain
90	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
91	Italian cypress	Cupressus sempervirens	12	9	None	Retain
92	Italian cypress	Cupressus sempervirens	11.7	8.8	None	Retain
93	Italian cypress	Cupressus sempervirens	13	9.8	None	Retain
, <u>,</u>)4	Italian cypress	Cupressus sempervirens	11.4	8.6	None	Retain
	Italian cypress	Cupressus sempervirens				
95			12.5	9.4	None	Retain
96	Italian cypress	Cupressus sempervirens	11	8.3	None	Retain
97	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
98	Italian cypress	Cupressus sempervirens	8.7	6.5	None	Retain
9	Blackwood acacia	Acacia melanoxylon	12	6	None	Retain
)0 00	Blackwood acacia	Acacia melanoxylon	8	4	None	Retain
)1	Blackwood acacia	Acacia melanoxylon	14.6	7.3	None	Retain
)2	Italian cypress	Cupressus sempervirens	7.1	5.3	None	Retain
)3	Blackwood acacia	Acacia melanoxylon	11.1	5.6	None	Retain
)4	Blackwood acacia	Acacia melanoxylon	4.6	2.3	None	Retain
)5	Blackwood acacia	Acacia melanoxylon	7.3	3.7	None	Retain
)6	Blackwood acacia	Acacia melanoxylon	6.2	3.1	None	Retain
)7	Red ironbark	Eucalyptus sideroxylon	31.2	15.6	None	Retain
		Acacia melanoxylon				
8	Blackwood acacia		5.7	2.9	None	Retain
)9	Blackwood acacia	Acacia melanoxylon	18.8	9.4	None	Retain
.0	Blackwood acacia	Acacia melanoxylon	8.7	4.4	None	Retain
	Red ironbark	Eucalyptus sideroxylon	24	0	N/A (dead)	REMOVE
1	Red ironbark	Eucalyptus sideroxylon	23.4	11.7	None	Retain
		Acacia melanoxylon				
.2	Blackwood and -		21.8	10.9	None	Retain
L2 L3	Blackwood acacia	Europhymetric at days 1		0	N/A (dead)	REMOVE
L2 L3 L4	Red ironbark	Eucalyptus sideroxylon	24			
L2 L3 L4		Eucalyptus sideroxylon Acacia melanoxylon	24 22.5	11.3	None	Retain
12 13 14 15	Red ironbark				None None	Retain Retain
12 13 14 15 16	Red ironbark Blackwood acacia	Acacia melanoxylon	22.5	11.3		
11 12 13 14 15 16 17 18	Red ironbark Blackwood acacia Red ironbark	Acacia melanoxylon Eucalyptus sideroxylon	22.5 28.7	11.3 14.4	None	Retain

420	Callery pear	Pyrus calleryana	10.2	7.7	Driveway	REMOVE
421	Callery pear	Pyrus calleryana	10.5	7.9	Driveway	REMOVE
422	Callery pear	Pyrus calleryana	10.7	8	Driveway	REMOVE
423	Callery pear	Pyrus calleryana	10	10	Driveway	REMOVE
424	Callery pear	Pyrus calleryana	8.4	6.3	Driveway	REMOVE
425	Callery pear	Pyrus calleryana	11.6	8.7	Driveway	REMOVE
426	Crape myrtle	Lagerstroemia indica	7.6	5.7	Driveway	REMOVE
427	Crape myrtle	Lagerstroemia indica	7.3	5.5	Driveway	REMOVE
428	Crape myrtle	Lagerstroemia indica	6.5	4.9	, Driveway	REMOVE
429	Crape myrtle	Lagerstroemia indica	7.6	5.7	Driveway	REMOVE
430	Ornamental cherry	Prunus sp.	4.1	5.1	Driveway	REMOVE
	Crape myrtle	Lagerstroemia indica		5.6	Driveway	REMOVE
431	Crape myrtle	Lagerstroemia indica	7.4		Driveway	
432	Crape myrtle	Lagerstroemia indica	5.4	4.1	Driveway	REMOVE
433		-	7.1	5.3	-	REMOVE
434	White birch	Betula pendula	6.4	6.4	None	Retain
435	White birch	Betula pendula	8.8	8.8	None	Retain
436	Japanese maple	Acer palmatum	6.1	4.6	None	Retain
437	White birch	Betula pendula	8.1	8.1	None	Retain
438	White birch	Betula pendula	9.9	9.9	None	Retain
439	White birch	Betula pendula	10.6	10.6	None	Retain
440	Weeping willow	Salix babylonica	21.8	16.4	Driveway	REMOVE
441	Eastern redbud	Cercis canadensis	6.2	4.7	Building	REMOVE
442	Eastern redbud	Cercis canadensis	6.5	4.9	Building	REMOVE
443	Eastern redbud	Cercis canadensis	5.3	4	None	Retain
444	Eastern redbud	Cercis canadensis	6.2	4.7	None	Retain
445	Japanese maple	Acer palmatum	4.7	3.5	None	Retain
446	Ornamental cherry	Prunus sp.	9.2	6.9	Generator yard	REMOVE
447	Ornamental cherry	Prunus sp.	5.9	4.4	Generator yard	REMOVE
448	Weeping willow	Salix babylonica	21.4	16.1	Generator yard	REMOVE
449	White birch	Betula pendula	12.8	12.8	None	Retain
450	Ornamental cherry	Prunus sp.	7.8	5.9	Driveway	REMOVE
451	Ornamental cherry	Prunus sp.	7.5	5.6	Driveway	REMOVE
452	Ornamental cherry	Prunus sp.	7.4	5.6	Driveway	REMOVE
453	Ornamental cherry	Prunus sp.	5.4	4.1	Driveway	REMOVE
454	Eastern redbud	Cercis canadensis	6.8	5.1	None	Retain
455	Eastern redbud	Cercis canadensis	5.2	3.9	None	Retain
456	Ornamental cherry	Prunus sp.	6	4.5	Generator yard	REMOVE
457	Ornamental cherry	Prunus sp.	7	5.3	Generator yard	REMOVE
458	White birch	Betula pendula	4.8	4.8	Building	REMOVE
		Betula pendula			Building	
459	White birch	Betula pendula	7.1	7.1	Building	REMOVE
460	White birch		4.7	4.7	_	REMOVE
461	Eastern redbud	Cercis canadensis	5.5	4.1	Building	REMOVE
462	Eastern redbud	Cercis canadensis	4.2	3.2	Building	REMOVE
463	Eastern redbud	Cercis canadensis	4.9	3.7	Generator yard	REMOVE
464	Ornamental cherry	Prunus sp.	7.5	5.6	Generator yard	REMOVE
465	Crape myrtle	Lagerstroemia indica	5.1	3.8	Generator yard	REMOVE
466	Crape myrtle	Lagerstroemia indica	5	3.8	Generator yard	REMOVE
467	Crape myrtle	Lagerstroemia indica	4.9	3.7	Generator yard	REMOVE
468	Ornamental cherry	Prunus sp.	6.1	4.6	Generator yard	REMOVE
469	Ornamental cherry	Prunus sp.	5.1	3.8	Generator yard	REMOVE
470	Ornamental cherry	Prunus sp.	9.1	6.8	Generator yard	REMOVE
471	White birch	Betula pendula	7.4	7.4	None	Retain
472	Crape myrtle	Lagerstroemia indica	5	3.8	None	Retain
473	Crape myrtle	Lagerstroemia indica	5.1	3.8	None	Retain
474	Crape myrtle	Lagerstroemia indica	5.1	3.8	None	Retain
475	Crape myrtle	Lagerstroemia indica	5.9	4.4	Driveway	REMOVE
476	Crape myrtle	Lagerstroemia indica	6.3	4.7	Driveway	REMOVE



TREE INVENTORY

PROJECT NUMBER
197250001
DATE
09/02/20
SHEET NUMBER
L1.3





Chad Mendell Vice President Environmental Systems Design, Inc. 90 New Montgomery Street Suite 1420 San Francisco, California 94105 312 456 2387 cmendell@esdglobal.com

Re: Tree Impacts from Proposed Development Project at 2825 Lafayette Street in Santa Clara

Dear Chad,

At your request, I have visited the property referenced above to evaluate the trees present with respect to the proposed construction project. The report below contains my analysis.

Summary

There are 476 trees on the project site, of which 377 are recommended for removal. Three hundred seventy-three of these conflict directly with project features, two are dead, and two are stumps of trees which were removed in the past, not in connection with this project.

Other trees may need to be removed for utility installation; however, no utilities are shown on the plans provided to me.

Prepared by Katherine Naegele for Environmental Systems Design, Inc.

Assignment:

We have been asked to write a report detailing impacts to trees from construction of the proposed building, substation, and parking lot redesign at this address.

Introduction:

Many factors influence how a tree will respond to impacts from construction activities, including the extent of the activity; tree species; and tree vigor. Construction plans should accommodate trees insofar as practical, with the intent of preserving as many trees as reasonably possible.

Limits of the Assignment:

All observations were made from the ground. No root collar excavations or aerial inspections were performed.

No utilities, grading, or feature specifications are shown on the plans provided to me. I expect additional tree impacts will result from some or all of these factors.

No project features had been staked at the time of my site visit.

Purpose & Use of the Report:

This report is intended to inform tree management decisions for this project.

Observations:

Trees

Four hundred seventy-six trees are present. The five most common species are: London plane (Platanus x acerifolia), with 121 (25%); Italian cypress (Cupressus sempervirens), with 44 (9%); Raywood ash (Fraxinus angustifolia 'Raywood'), with 44 (9%); crape myrtle (Lagerstroemia *indica*), with 41 (9); and ornamental cherries (*Prunus* spp.), with 32 (7%).

Four trees are dead. Two of these were removed prior to my site visit, though their stumps remain.

Many trees are in small planters surrounded by hardscape.

Orange tape was present around several tree trunks at the time of my site visit, as noted in the Tree Table. I do not know the significance of this tape; it is possible that the trees are slated for removal or pruning by others.

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K:\BAY_LDEV\197250001 - DLR Data Center (Lafayette St.) - MRJ\CAD\Exhibits\Entitlement Drawings\L1.0 PRELIM TREE DISPOSITION PLAN OPT 2.dwg 11/18/2020 5:45 PM Michael.Thomsen



Project Features

A new building will be constructed in the north part of the property, with a generator yard to the south. A new substation will be constructed in the southwest part of the property. New transmission lines will be installed along the east and west property lines. Most parking lot and driving areas will be redesigned.

The existing building in the south part of the property will remain.

Tree Impacts

Four hundred three trees conflict directly with proposed project features (not including dead trees). Conflicting features are listed in the following table:

Conflicting Feature	Live Trees to be Removed	%
Building	139.0	37%
Civil improvement	1.0	0%
Concrete path	5.0	1%
Demolition	0.0	0%
Driveway	98.0	26%
Generator yard	42.0	11%
None	0.0	0%
Transmission lines	51.0	14%
Property line fence	0.0	0%
Retention area	10.0	3%
Substation	27.0	7%

Of the 99 trees to remain, all are in good condition.

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Many of the trees to remain will likely be impacted by project activities as detailed in the

be Retained	%
0.0	0%
0.0	0%
3.0	3%
0.0	0%
1.0	1%
0.0	0%
92.0	93%
0.0	0%
1.0	1%
2.0	2%
0.0	0%
	be Retained 0.0 0.0 3.0 0.0 1.0 92.0 0.0 1.0 2.0

Likely Impact level	Trees to be Retained	%
Minor	99	100 %
Minor-moderate	0	0%
Moderate	0	0%
Moderate-major	0	0%
Major	0	0%

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Testing & Analysis:

Tree DBHs¹ were taken using a diameter tape measure if trunks were accessible. The DBHs of trees with non-accessible trunks were estimated visually. All trees over four inches in DBH were inventoried, with some smaller trees included if prominently located.

Vigor ratings are based on tree appearance and experiential knowledge of each species.

Tree location data was collected using a GPS smartphone application and processed in GIS software to create the maps included in this report. Due to slight differences between GPS data and CAD drawings, tree locations shown on the map below are approximate.

I visited the site on 5/31/2019, 6/1/2019, and 6/3/2019. All observations and photographs in this report were taken at those site visits.

This report is based on sheet A1.1 of the plan set titled "Master Plan: Proposed New Site Plan," provided to me electronically by the client. No utilities, grading, or feature specifications were provided.

¹ Diameter at breast height, a standard arboricultural metric

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Discussion:

Critical Root Zone (CRZ)

Tree roots grow where conditions are favorable, and their spatial arrangement is therefore unpredictable. Favorable conditions vary among species, but generally include the presence of moisture, and soft soil texture with low compaction.

Contrary to popular belief, roots of all tree species grow primarily in the top two feet of soil, with a small number of roots sometimes occurring at greater depths. Some species have taproots when young, but these almost universally disappear with age. At maturity, a tree's root system may extend out from the trunk farther than the tree is tall.

The optimal size of the area around a tree which should be protected from disturbance depends on the tree's size, species, and vigor, as shown in the following table (adapted from Trees & *Construction*, Matheny and Clark, 1998)²:

Species-Specific Issues

Some tree species on this property exhibit disease symptoms that, while unsightly, indicate common issues which can be managed with proper ongoing care. These trees were given higher health ratings than may appear reasonable without knowledge of these issues.

of deadwood.

wounding.

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<u>Callery pear</u> - all pear trees, but especially Callery pear (*Pyrus calleryana*), are susceptible to a bacterial disease called fireblight (Erwinia amylovora). Fireblight infection causes progressive dieback, starting with buds and spreading to entire limbs.

Conclusions:

The remaining 99 trees can reasonably be protected, with a high likelihood of survival during and after construction.

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Species tolerance	Tree vigor	Distance from trunk (feet per inch trunk diameter)
Good	High	0.5
	Moderate	0.75
	Low	1
Moderate	High	0.75
	Moderate	1
	Low	1.25
Poor	High	1
	Moderate	1.25
	Low	1.5

<u>Raywood ash</u> - these trees are susceptible to a syndrome called ash dieback. Though the exact causes remain unknown, disease susceptibility and drought stress appear to be major factors. This syndrome cannot be cured, but can only be managed through irrigation and regular removal

² Matheny and Clark use tree age instead of vigor; however, vigor is a stronger predictor of a tree's response to

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Evergreen pear - a disease called leaf spot (Entomosporium mespili) causes copious black spots on the leaves of evergreen pear trees (Pyrus kawakamii). This disease is primarily aesthetic, though some infected trees may drop of one or more crops of leaves per year.

Three hundred seventy-three trees must be removed in order for the project to move forward as currently proposed. Two others must be removed irrespective of project features, as they are dead. Another two were removed prior to my site visit, and only the stumps remain.

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