



1200 MEMOREX

PCC PACKAGE

SCOPE OF WORK

THE PROJECT PROPOSES TO DEMOLISH THE EXISTING IMPROVEMENTS ON THE SITE TO CONSTRUCT A FOUR-STORY 472,920 SQUARE FOOT DATA CENTER BUILDING WITH AN ATTACHED SIX-STORY 87,520 SQUARE FOOT ANCILLARY USE OFFICE AND STORAGE COMPONENT, FOR A COMBINED SQUARE FOOTAGE OF 560,440.



SHEET INDEX		PCC PACKAGE - 2019.08.05	PCC PACKAGE V2 - 2019.11.13	PCC PACKAGE V3 - 2020.03.01
SHEET NO.	SHEET NAME			
00 - PCC	00 - PCC			
A121	01 - SITE PLAN	•	•	•
A122	02 - LEVEL 1 FLOOR PLAN	•	•	•
A123	03 - LEVEL 2 FLOOR PLAN	•	•	•
A124	04 - LEVEL 3 FLOOR PLAN	•	•	•
A125	05 - OFFICE LEVEL - FLOOR PLANS	•	•	•
A126	06 - OFFICE LEVEL - FLOOR PLANS	•	•	•
A127	07 - ROOF PLAN	•	•	•
A128	08 - BUILDING SECTION	•	•	•
A129	09 - ELEVATIONS	•	•	•
A130	10 - ELEVATIONS	•	•	•
A131	11 - ELEVATIONS	•	•	•
A132	12 - ELEVATIONS	•	•	•
A210	13 - SITE PLAN - MP	•	•	•
A221	14 - LEVEL 1 FLOOR PLAN - MP	•	•	•
A222	15 - LEVEL 2 FLOOR PLAN - MP	•	•	•
A223	16 - LEVEL 3 FLOOR PLAN - MP	•	•	•
A224	17 - LEVEL 4 FLOOR PLAN - MP	•	•	•
A225	18 - OFFICE LEVEL - FLOOR PLANS - MP	•	•	•
A226	19 - OFFICE LEVEL - FLOOR PLANS - MP	•	•	•
A227	20 - ROOF TOP EQUIPMENT PLAN - MP	•	•	•
A240	21 - BUILDING SECTION - MP	•	•	•
G100	22 - COVER SHEET	•	•	•
G100	23 - PROJECT INFORMATION	•	•	•
H100	24 - HISTORIC RESOURCE ELEMENTS	•	•	•
08-CIVIL-PCC	08-CIVIL-PCC	•	•	•
C100	01 - EXISTING SITE CONDITIONS	•	•	•
C110	02 - EXISTING UTILITY CONDITIONS	•	•	•
C120	03 - SITE ACCESS AND CIRCULATION PLAN	•	•	•
C130	04 - FIRE ACCESS AND APPARATUS DIAGRAM	•	•	•
C140	05 - EROSION CONTROL PLAN; EXISTING FIRE SERVICE PLAN	•	•	•
C150	06 - PRELIMINARY GRADING AND DRAINAGE PLAN	•	•	•
C160	07 - PRELIMINARY SITE UTIL PLAN	•	•	•
C170	08 - PRELIMINARY STORMWATER CONTROL PLAN	•	•	•
C180	09 - STORMWATER CONTROL DETAILS	•	•	•
C190	10 - PRELIMINARY STORMWATER CALCULATIONS	•	•	•
C200	11 - PRELIMINARY STORMWATER CALCULATIONS	•	•	•
09-LANDSCAPE-PCC	09-LANDSCAPE-PCC	•	•	•
L100	01 - LANDSCAPE PLANTING PLAN	•	•	•
L110	02 - LANDSCAPE PLANTING PLAN	•	•	•
L120	03 - LANDSCAPE HYDROLOGIC PLAN	•	•	•
L130	04 - LANDSCAPE HYDROLOGIC PLAN	•	•	•
L140	05 - LANDSCAPE PLANTING PLAN	•	•	•
L150	06 - LANDSCAPE PLANTING PLAN	•	•	•
L160	07 - EXISTING TREE PLAN	•	•	•
L170	08 - LANDSCAPE PLANTING PLAN	•	•	•
L180	09 - LANDSCAPE HYDROLOGIC PLAN	•	•	•
L190	10 - LANDSCAPE HYDROLOGIC PLAN	•	•	•
L200	11 - PRELIMINARY IRRIGATION PLAN	•	•	•
10 - ELECTRICAL-PCC	10 - ELECTRICAL-PCC	•	•	•
E100	01 - LEGEND AND ABBREVIATIONS	•	•	•
E110	02 - ELECTRICAL SITE ROUTING PLAN	•	•	•
E120	03 - ELECTRICAL SITE ROUTING PLAN	•	•	•
E130	04 - ELECTRICAL SITE LIGHTING PLAN	•	•	•
E140	05 - ELECTRICAL SITE LIGHTING PLAN	•	•	•
E150	06 - SITE LIGHTING PHOTOMETRICS	•	•	•
E160	07 - LUMINAIRE SCHEDULE	•	•	•

1200 Memorex - Santa Clara, CA

Development, Design, and Construction Anticipated Milestones

ACTIVITY	DATE
PCC Approval	4/09/2020
CEC CEQA Exemption	12/10/2020
Building Permit Issued	3/12/2021
Demolition Complete	5/24/2021
Grading Complete	6/21/2021
Building Shell Complete	6/13/2022
Interior Finish Out Complete	6/13/2022
Substantial Completion	9/1/2022

PROJECT DATA AND CODE INFORMATION				
PROJECT DATA				
PROJECT NAME	1200 MEMOREX			
PROJECT ADDRESS	1200 Memorex Drive Santa Clara, CA 95050			
OWNER	1200 Partners, LLC			
APPLICABLE CODES				
NOTE INCLUDED IN SPECIFICATION SECTION 014100 REGULATORY REQUIREMENTS				
BUILDING CODE	2016 California Building Code			
ACCESSIBILITY CODE	2016 California Building Code - Chapter 11B			
ELECTRICAL CODE	2016 California Electrical Code			
ENERGY CODE	2016 California Energy Code & 2016 California Green Building Standards			
FIRE CODE	2016 California Fire Code			
MECHANICAL CODE	2016 California Mechanical Code			
PLUMBING CODE	2016 California Plumbing Code			
REGIONAL OR MUNICIPAL CODE	City of Santa Clara Zoning and Local Ordinances			
LIFE SAFETY INFORMATION				
REFERENCE: 2016 CBC				
USE OR OCCUPANCY CLASSIFICATION				
OCCUPANCY	(R2) STORAGE			
TYPE OF CONSTRUCTION				
CONSTRUCTION TYPE	IIA			
FIRE PROTECTION REQUIREMENTS				
BEARING WALLS - INT. EXT.	1			
NON-BEARING WALLS - INT. EXT.	1 AND 1 B HEIST EXT. WALL			
ROOF / CEILING	1 AND 1 B - 120 FEET FROM FLOOR			
FLOOR / CEILING	1			
STRUCTURAL FRAME / COLUMNS	1			
RATED SEPARATIONS: 1 BUILDING SEPARATION @ 2 HR				
DESIGN LIMITATIONS				
HEIGHT	MAX. ALLOWED: 82'-0"	MAX. PROVIDED: 82'-0"	2 HR. SEPARATION PLAN	
AREA	1, 121700 SF	1, 118250 SF		
# OF FLOORS	2, 117000 SF	2, 14885 SF		
	1, 6	1, 6		
	2, 6	2, 6		
MEANS OF EGRESS		MAX. ALLOWED	MAX. PROVIDED	
TRAVEL DISTANCE TO EXIT				
TOTAL OCCUPANT LOAD				
EGRESS WIDTH PER OCCUPANT		MIN. ALLOWED	PROVIDED	
0.2' STAIRS		0'-0"	0'-0"	
0.15' DOORS		0'-0"	0'-0"	
PLUMBING FIXTURE REQUIREMENTS				
		FEMALE	MALE	SINGLE USER
FIXTURE	# REQUIRED	# PROVIDED	# REQUIRED	# PROVIDED
WATER CLOSETS	#	#	#	#
URNALS	#	#	#	#
LAVATORIES	#	#	#	#
SHOWERS	#	#	#	#
		SERVICE		
		# REQUIRED	# PROVIDED	
SERVICE SINKS	#	#		
DRINKING FOUNTAINS	#	#		

PROJECT NARRATIVE

1200 Memorex

1.1.1 Existing Development

The 9.18-acre project site is located at 1200 Memorex Drive. The site is zoned ML-Light Industrial and has a General Plan designation of Light Industrial. The site is currently developed with three buildings: a three-story approximately 300,000 square foot building, a two-story approximately 46,000 square foot building, and a one-story approximately 2,500 square foot building. Roughly 100,000 square feet of active outdoor uses are located on the eastern portion of the site. Existing uses on the site are light industrial in nature and include operations such as aluminum plating, metal cleaning/polishing, a machine shop, construction contractors, a brewery, material storage, vehicle storage, and hauling. The vehicle storage and hauling operations are primarily located in the outdoor areas on the site.

1.1.2 Proposed Development

The project proposes to demolish the existing improvements on the site to construct a four-story 472,920 square foot data center building with an attached six-story 87,520 square foot ancillary use office and storage component, for a combined square footage of 560,440. The structure would have a height of 87 feet to the top of building parapet. The data center portion of the building would house computer servers for private clients in a secure and environmentally controlled structure and would be designed to provide 60 megawatts (MW) of information technology (IT) power. The ancillary use portion of the building would be used for office (roughly 51,000 square feet) and storage uses.

Three-quarters of the data center portion of the building would consist of production data hall space, which requires backup power generation, while the other quarter would consist of development data hall space, which does not require backup power generation. Standby backup emergency electrical generators would be installed to provide an uninterrupted power supply to the production data hall space. A total of 24 three-MW diesel-fueled engine generators would be located on the south side of the building, providing 48 MW of backup power generation capacity. Of the 24 proposed generators (16 critical & 8 redundant), 21 units would be located within a ground-level generator yard and three units would be located on the roof of the adjacent loading dock. Mechanical cooling equipment would be located on the roof with metal panel perimeter screening above the building parapet.

The project would also construct a 150 megawatt amps (MVA) electrical substation on the eastern portion of the site. The substation would have three 50 MVA transformers, one of which would be redundant and would only become active if one of the other transformers fails. The substation capacity would be a nominal 100 MVA. The substation would have an all-weather asphalt surface underlain by an aggregate base.

1.1.2.1 Site Access and Parking

The site currently has Memorex Drive and three driveways on Ronald Street/Di Giulio Avenue, all of which would be removed by the project. Access to the site would be provided by two new driveways on Memorex Drive and one new driveway on Di Giulio Avenue. The project would result in a net decrease in driveways accessing the site, reducing curb cuts and eliminating hazards associated with site distances from current driveways located near intersections and roadway bends.

Based on input from City staff, the project would be classified as a Storage use, which requires one parking space per 5,000 square feet of gross floor area. The office component (Business use) of the project would occupy less than 10 percent of the gross floor area and would be considered an ancillary use to the primary Storage use. As a result, the parking requirements for the Storage use would apply to the entire project. With a gross square footage of 560,440, and a required parking ratio of one space per 5,000 square feet, the project would be required to provide 112 spaces. The project proposes to provide 113 parking spaces in surface parking lots located on the eastern portion of the site. Five parking spaces would be ADA accessible, and 11 parking spaces would be dedicated for clean air vehicles. Electric vehicle charging stations would be located adjacent to the clean air vehicle spaces.

1.1.2.2 Building Height and Floor Area Ratio Variations

The project would construct a building with a maximum height of 87 feet to the top of parapet, which would exceed the maximum height of 70 feet allowed under the ML - Light Industrial zoning designation. Additionally, the project would have a floor area ratio (FAR) of 1.40, which would exceed the maximum FAR of 0.6 allowed under the Light Industrial General Plan designation.

The project is requesting variances to allow building heights and FAR above those allowed in the Zoning Ordinance and General Plan. The building height and FAR variances would allow the project to maximize the efficiency of the proposed data center. By consolidating the data center equipment in a single large structure instead of multiple smaller structures, energy efficiency is increased and fewer resources are required for building operation and maintenance. Further, due to the low employment requirement of data centers, the proposed project would result in a decrease in vehicle trips and vehicle miles traveled associated with the site, even with the proposed increases in allowed height and FAR (see discussion below).

1.1.2.3 Vehicle Trips and Vehicle Miles Traveled

Data centers result in fewer vehicle trips than typical light industrial uses because the building is primarily occupied by IT equipment and associated mechanical infrastructure. Few employees are required to operate the data center. While the project includes an office component, the office use is ancillary to the data center use and makes up less than 10 percent of the overall building square footage.

A preliminary assessment was completed to determine the net vehicle trip generation resulting from the project. Trip generation rates for existing uses on the site were based on the Institute of Transportation Engineers' (ITE) Trip Generation Manual. Terrell Edillon's trip generation rates for general light industrial land uses (land use code 110). Trip generation rates for the proposed project were based on ITE rates for data centers (land use code 160) and general office buildings (land use code 710). The trip rates for existing uses were applied to 348,950 square feet of light industrial building area and roughly 100,000 square feet of active outdoor light industrial uses, resulting in an estimated total of 2,227 existing daily trips. For the proposed uses, the general office building trip rate was applied to the 51,000 square feet of office area, and the data center trip rate was applied to the remaining 509,440 square feet of the project, resulting in an estimated total of 1,001 daily project trips. Based on ITE trip rates, the project would result in a net reduction of 1,226 daily vehicle trips associated with the site. A reduction in daily vehicle trips would also result in a reduction in vehicle miles traveled (VMT). By reducing vehicle trips and VMT associated with the site, the project would result in a net reduction in air pollutants and greenhouse gas emissions associated with vehicle trips, and would reduce traffic congestion in the surrounding area. It should be noted that this assessment is preliminary and will be refined as part of the environmental review completed for the project.

1.1.2.4 Hazardous Materials Remediation

Known contamination is present in the soils and groundwater on the site. The contamination is associated with historic uses by the Memorex Corporation, which manufactured magnetic tape on the site through approximately 1993. The site is subject to Regional Water Quality Control Board (RWQCB) oversight and cleanup requirements related to this contamination. Since 1993, uses on the site have included the use and storage of hazardous materials, and it is possible that additional contamination is present on the site in areas that have not been previously investigated. The project would complete soil, soil vapor, and groundwater quality investigations to determine the extent of contamination on the site. It is anticipated that the project would prepare a Site Management Plan (SMP) and a Health and Safety Plan (HSP) to establish appropriate protocols for handling and monitoring contaminated soil, soil vapor, and groundwater, and to determine what remediation measures are necessary. As a result, the project would facilitate the remediation of contamination on the site. Additionally, current uses on the site such as aluminum plating and metal cleaning/polishing likely involve the use and storage of hazardous materials. The proposed data center project would not involve the use or storage of hazardous materials, representing an improvement over existing conditions. Further, by developing a data center on the site, the project would eliminate the potential for additional hazardous materials releases to occur from other light industrial uses that may otherwise occupy the site in the future.

1.1.2.5 Power Usage Effectiveness, Energy Efficiency, and Water Conservation

Power Usage Effectiveness (PUE) is a metric used to compare the operating efficiency of data center facilities. PUE is defined as the ratio of total power use of a facility to the power used strictly by the information technology (IT) equipment (e.g. PUE = Total Facility Power / IT Equipment Power). For example, with a PUE of 2.0 a data center would use two watts of total power for every one watt of power used by the IT equipment. The annualized PUE for the proposed data center would be less than 1.29, which is on the low/efficient end of the scale for data centers in the area.

The project includes a variety of measures to minimize total power usage of the data center. Due to substantial cooling requirements, the primary method for achieving energy efficiency in data centers is through the cooling system. The proposed data center would maximize efficiency by utilizing direct outside air economization, economized chillers, or DOE cooling units, reducing energy consumption and eliminating the requirement for large quantities of water utilized for cooling purposes by other data centers in the area.

1.1.2.6 Landscaping and Stormwater Control

Currently, landscaping on the site is sparse. Mature trees are located on the site's frontage with Memorex Drive, and additional trees and shrubbery are located along portions of the site's perimeter. Although the project would remove some of the existing trees and landscaping on the site, the project would plant replacement trees that would meet or exceed required replacement ratios, resulting in an increase in trees and landscaping on the site.

The project would result in a decrease in the amount of impervious area on the site. Storm drainage runoff from the site's impervious surfaces would be directed to treatment systems before being collected in a series of pipes sized for a 10-year storm event in accordance with the City's design requirements. These pipes would ultimately leave the site, connecting to the existing City storm drainage pipes in Memorex Drive and/or Di Giulio Avenue. No new off-site storm drain facilities are anticipated to serve the project. Since redevelopment of the site would not increase the storm drain runoff compared to existing conditions, the project would have no adverse impact on the existing City storm drainage system downstream of the site.

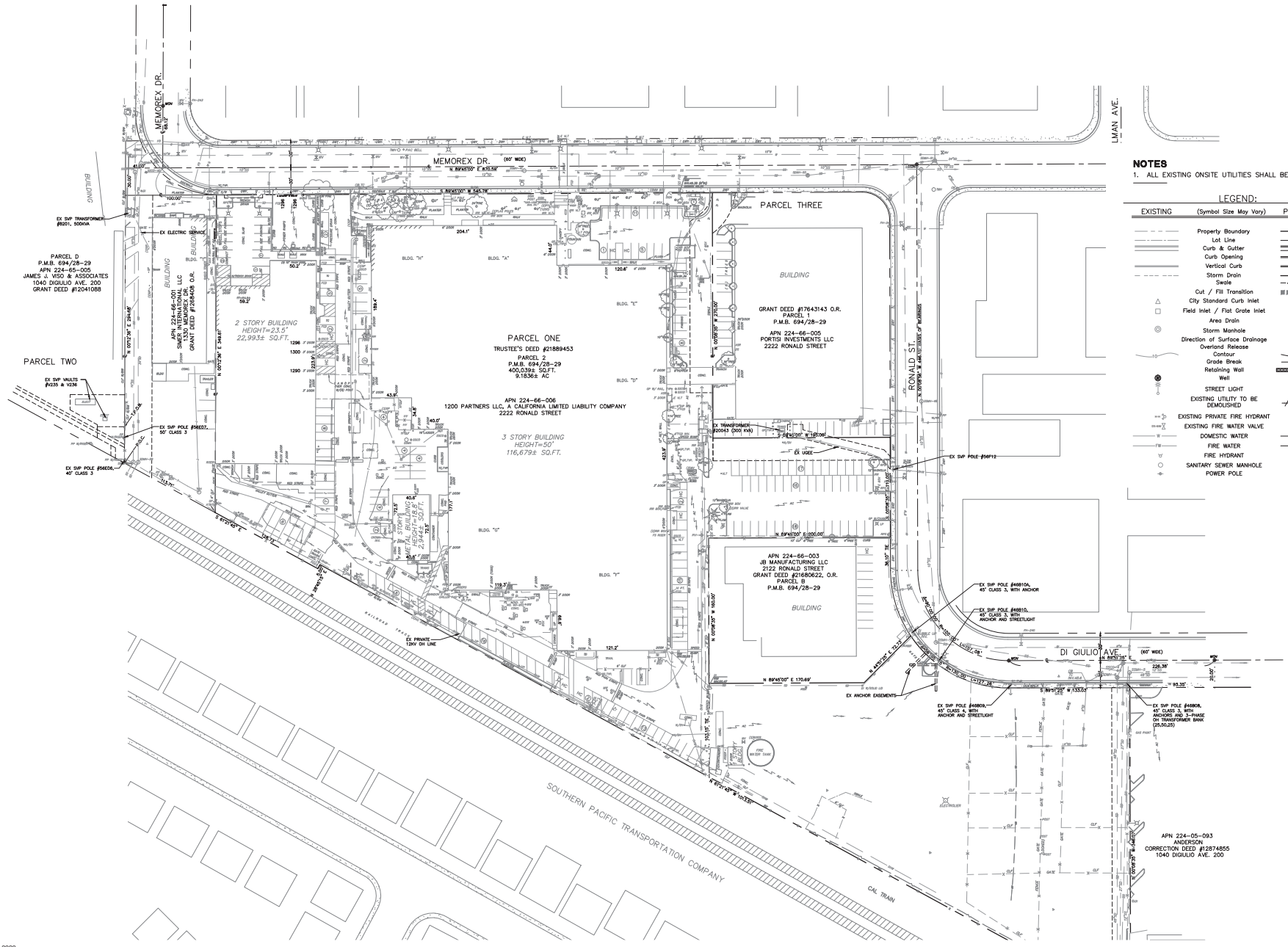
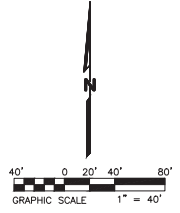
The goal of the project is to ensure that the final design incorporates an efficient program of best management practices (BMP's) as appropriate to the site conditions and urban runoff pollution prevention requirements. To this end, development of the property shall comply with the requirements of the California Regional Water Quality Control Board, San Francisco Bay Region Municipal Regional Stormwater NPDES Permit (MRP). The project would implement site design measures, source control measures and treatment systems into the site design in accordance with Provision C.3 of the MRP. The project would also employ treatment control measures (TCMs) as appropriate based upon site specific design to achieve stormwater requirements for urban runoff pollution.

PROJECT INFORMATION

04.09.2020



G-100



NOTES
1. ALL EXISTING ONSITE UTILITIES SHALL BE REMOVED.

LEGEND:

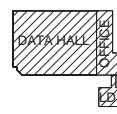
EXISTING	(Symbol Size May Vary)	PROPOSED
---	Property Boundary	---
---	Lot Line	---
---	Curb & Gutter	---
---	Curb Opening	---
---	Vertical Curb	---
---	Storm Drain	---
---	Swale	---
---	Cut / Fill Transition	---
---	City Standard Curb Inlet	---
---	Field Inlet / Flat Grade Inlet	---
---	Area Drain	---
---	Storm Manhole	---
---	Direction of Surface Drainage	---
---	Overland Release	---
---	Contour	---
---	Grade Break	---
---	Retaining Wall	---
---	Well	---
---	STREET LIGHT	---
---	EXISTING UTILITY TO BE DEMOLISHED	---
---	EXISTING PRIVATE FIRE HYDRANT	---
---	EXISTING FIRE WATER VALVE	---
---	DOMESTIC WATER	---
---	FIRE WATER	---
---	FIRE HYDRANT	---
---	SANITARY SEWER MANHOLE	---
---	POWER POLE	---

Project Number: 19110.0000



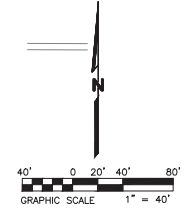
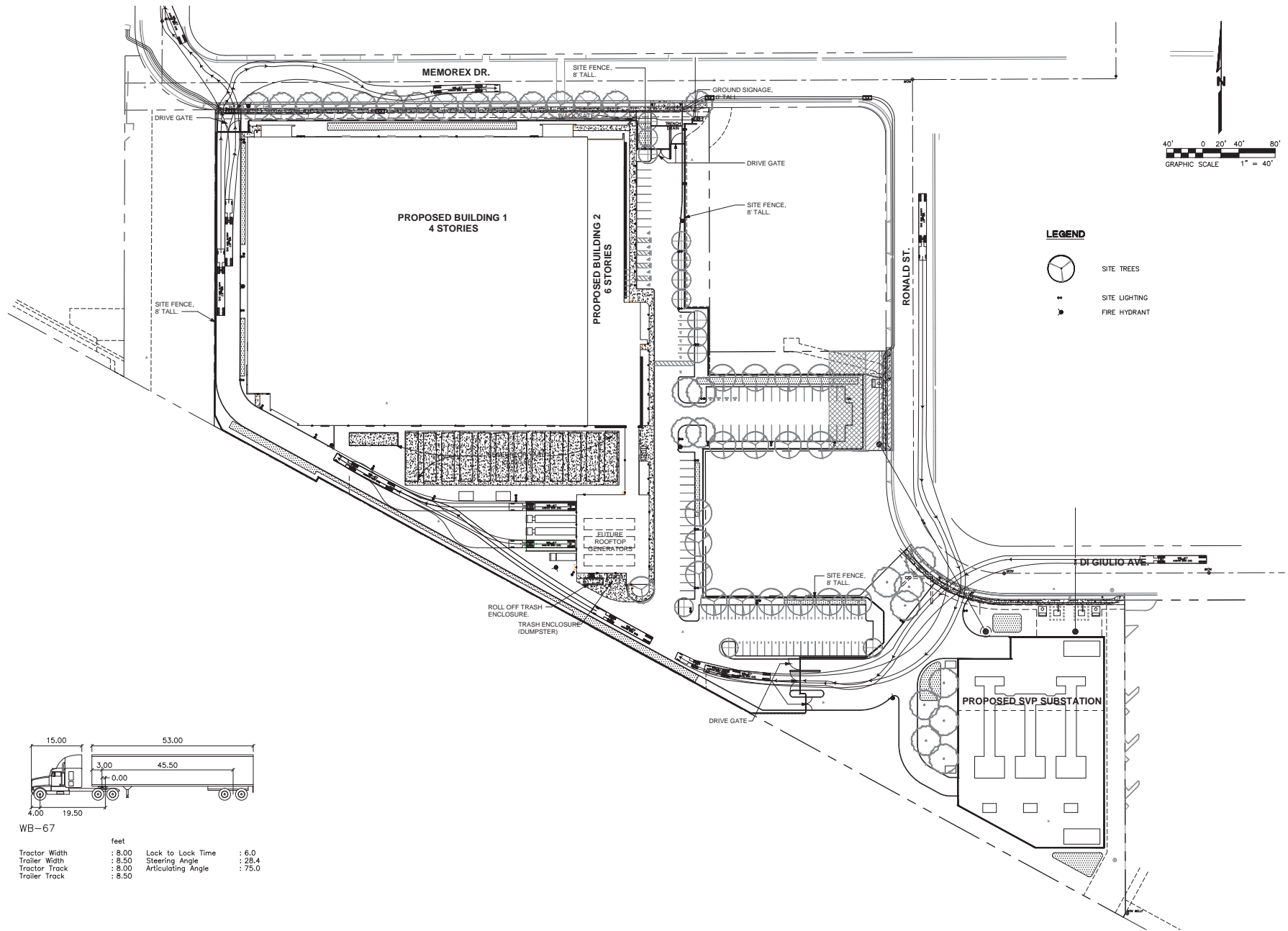
EXISTING UTILITY CONDITIONS

04.09.2020

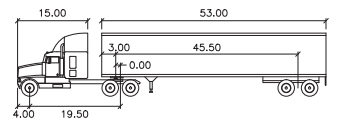


C110

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- LEGEND**
- SITE TREES
 - SITE LIGHTING
 - ⦿ FIRE HYDRANT



WB-67

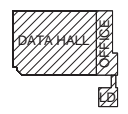
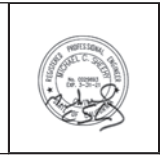
feet	
Tractor Width	: 8.00
Trailer Width	: 8.50
Tractor Track	: 8.00
Trailer Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 28.4
Articulating Angle	: 75.0

Project Number: 19110.0000



SITE ACCESS AND CIRCULATION PLAN

04.09.2020

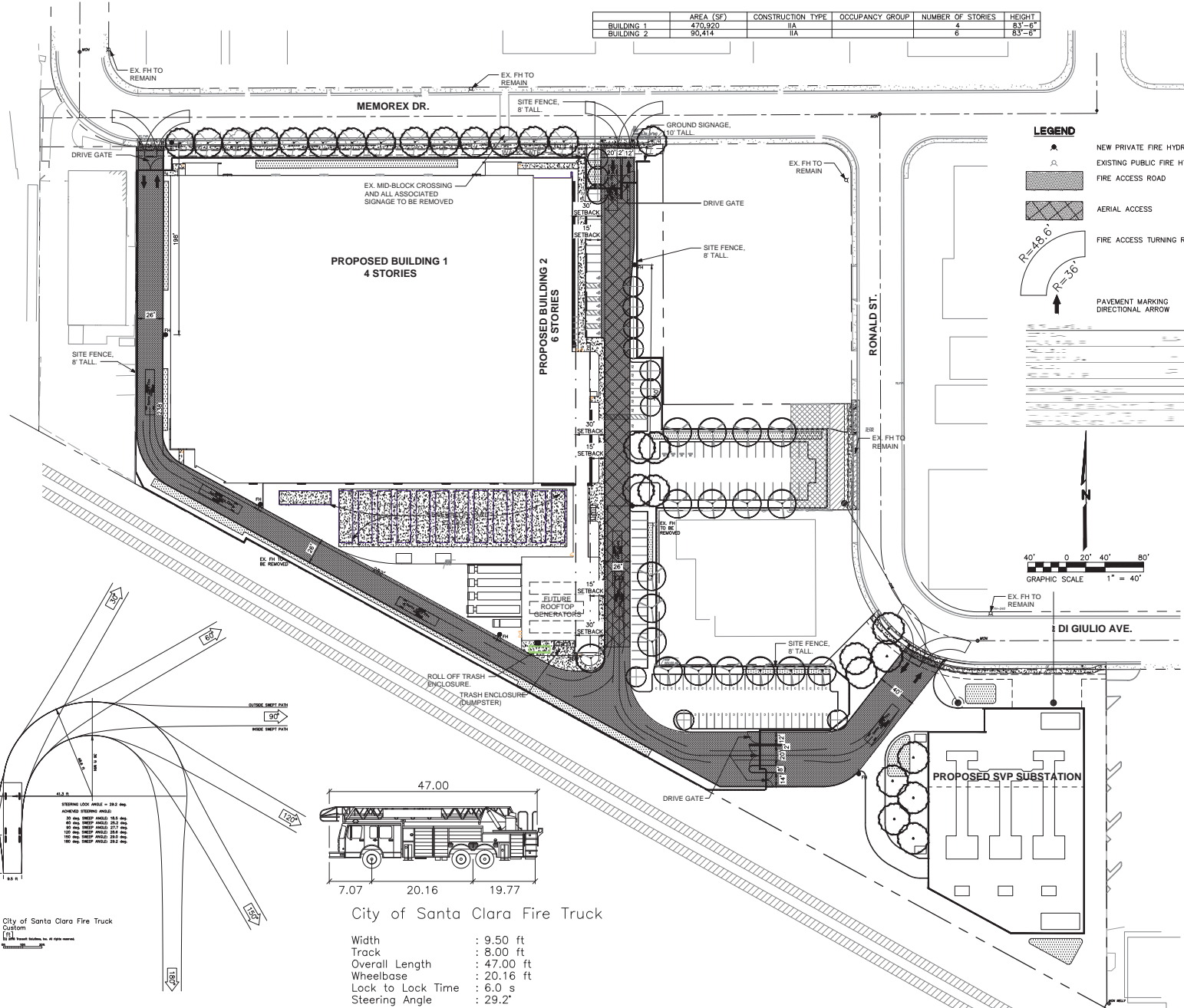


C200

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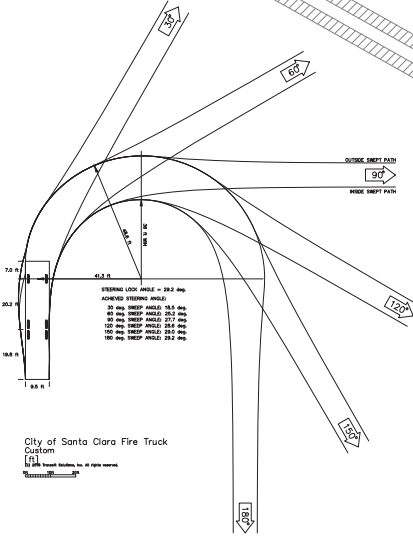
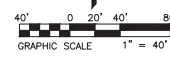
	AREA (SF)	CONSTRUCTION TYPE	OCCUPANCY GROUP	NUMBER OF STORIES	HEIGHT
BUILDING 1	470,920	IIA		4	83'-6"
BUILDING 2	90,414	IIA		6	83'-6"

- NOTES**
- SECURITY GATES SHALL BE EQUIPPED WITH OPTICOM SWITCH OR APPROVED ALTERNATIVE FOR FIRE DEPARTMENT ACCESS.
 - SCFD DEFICIENCY: ALL PORTIONS OF THE BUILDING (SOUTH WALL NEAR THE GENERATORS) ARE NOT WITH 150 FEET FROM AN APPROVED FIRE DEPARTMENT ACCESS ROAD. THE DIMENSION OF 150 FEET IN RELATION TO FIRE DEPARTMENT ACCESS IS COMMONLY REFERRED TO AS HOSE PULL DISTANCE. HOSE PULL IS MEASURED ALONG THE PATH THAT SIMULATES THE ROUTE A FIRE FIGHTER MAY TAKE TO ACCESS ALL PORTIONS OF THE EXTERIOR OF A STRUCTURE FROM THE NEAREST FIRE ROAD.
 - AMAR: PROJECT DESIGN TEAM WILL SUBMIT AN AMM TO SCFD, PROPOSING TO INCREASE BLDG FIRE SPRINKLER DENSITY TO SATISFY DEFICIENCY DURING PERMIT DOCS.



LEGEND

- NEW PRIVATE FIRE HYDRANT
- EXISTING PUBLIC FIRE HYDRANT
- FIRE ACCESS ROAD
- AERIAL ACCESS
- FIRE ACCESS TURNING RADIUS
- PAVEMENT MARKING DIRECTIONAL ARROW



City of Santa Clara Fire Truck

Width : 9.50 ft
 Track : 8.00 ft
 Overall Length : 47.00 ft
 Wheelbase : 20.16 ft
 Lock to Lock Time : 6.0 s
 Steering Angle : 29.2°

SANTA CLARA

Wednesday, April 10, 2019

Fire Flow Rate Requested by:
 Name: Michael Staudy
 Company: Bulk and Coing Inc.
 Tel: 408-234-2003
 Email: mstaudy@bulksandcoing.com

You have requested fire flow data for the area around 1210 Memorex Drive. Results provided are based on fire hydrant flow test 0809. Flow data from official fire system rack is used. Pressure data was obtained from rack 0842. See sheets on the attached water utility map. The flow hydrants are represented by a 1/4" wide mark.

The reported accuracy of the test is within a range of +/- 10 percent. The flow (GPM) was computed per National Fire Protection Association 291, by the Hazen Williams Equation and multiplied by a Hazen Coefficient value of 130.

Date of the Flow Test 0922	Static Pressure (PSI)	Residual Pressure (PSI)	Opening Size (Inches)	Flow (GPM)
Thursday, September 13, 2018	80	55	4	2,134

If you have any questions, feel free to contact me.

Sincerely,
Randall Ingh
 Randall Ingh
 City of Santa Clara
 Water & Sewer Utilities
 408-415-2616

City Auditor/Plant Director
 Deborah Patten
 Deborah Patten

Water Utility Map- 1210 Memorex Drive (Industrial)

Purpose: Circle (#/gls family home, fire service upgrade, new fire service installation)
 Type of Improvement: Circle (Terminal improvement, new construction, other)
 Applicant Name: _____
 Date of Application: _____
 Circle fire hydrants to be tested: _____
 Note: Identify locations of ex. fire service to be upgraded or new fire service to be installed
 * All information above shall be provided prior to scheduling the test *

Project Number: 19110.0000

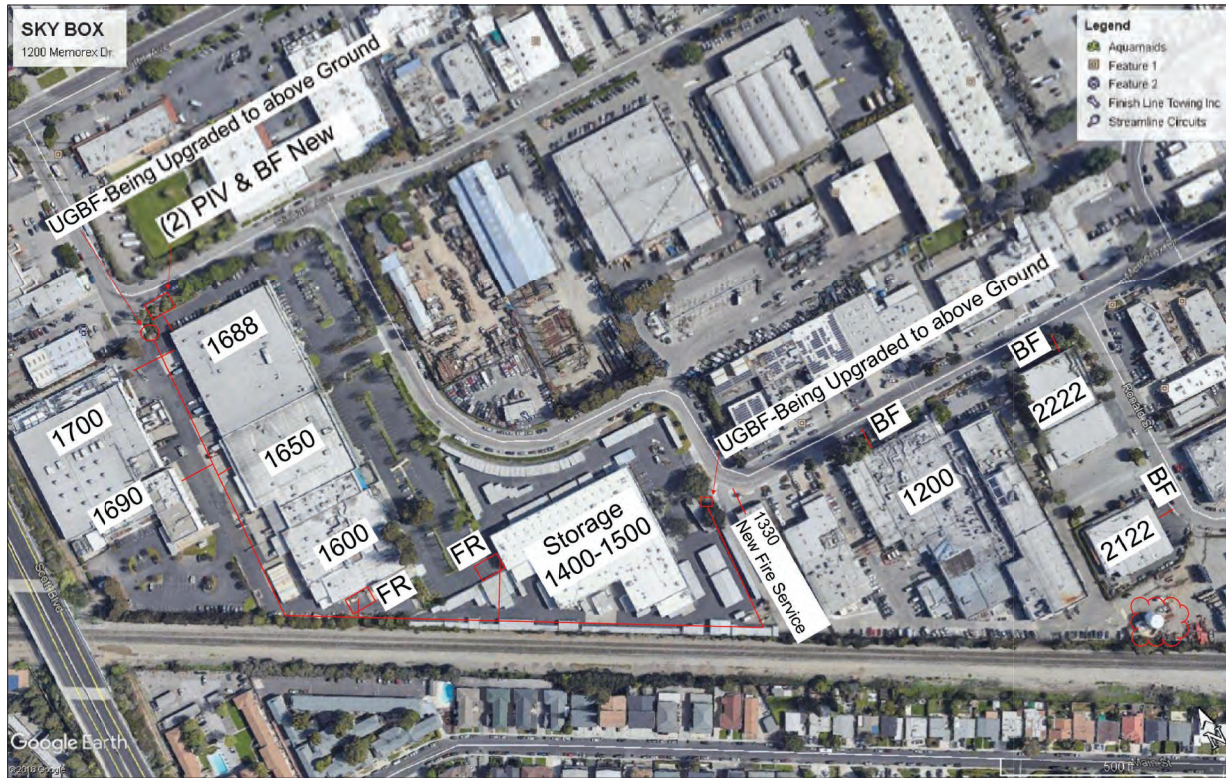


FIRE ACCESS AND APPARATUS DIAGRAM

04.09.2020

DATA HALL

C210



ABBREVIATIONS

1700	ADDRESS NUMBER
BF	CSC BACKFLOW
FR	FIRE RAISER
PIV	POST INDICATOR VALVE
UGBF	UNDERGROUND BACKFLOW

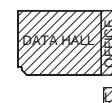
ADJACENT FIRE PERMITS

PERMIT #	ADDRESS
18-1101	1688 & 1700 RICHARD AVE
18-1094	1600, 1650 & 1690 RICHARD AVE

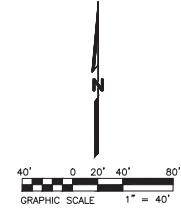
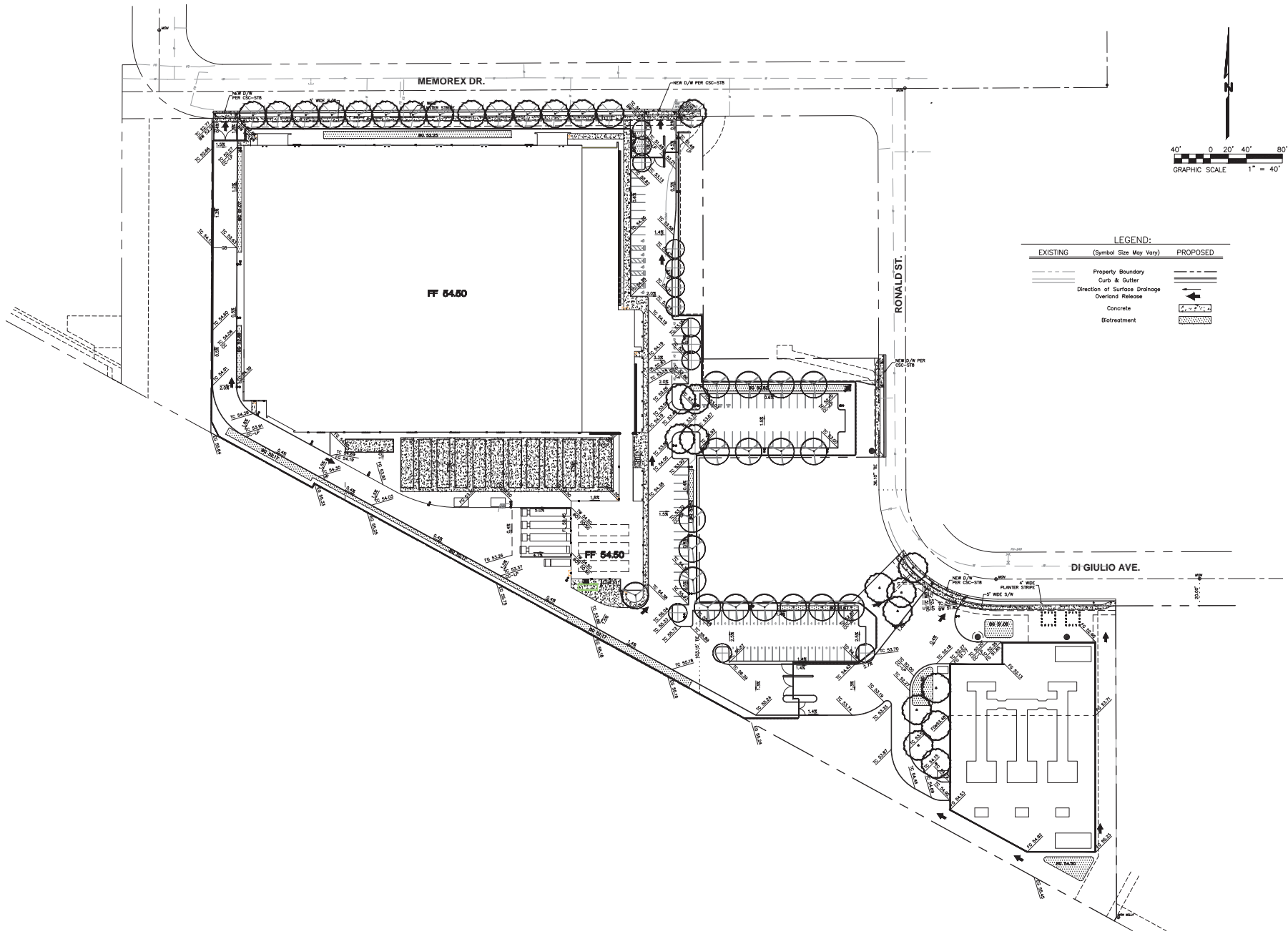


ADJACENT PARCEL
EXISTING FIRE SERVICE PLAN

04.09.2020



C211



LEGEND:

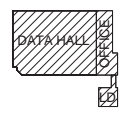
EXISTING	(Symbol Size May Vary)	PROPOSED
---	---	---
---	---	---
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Project Number: 19110.0000



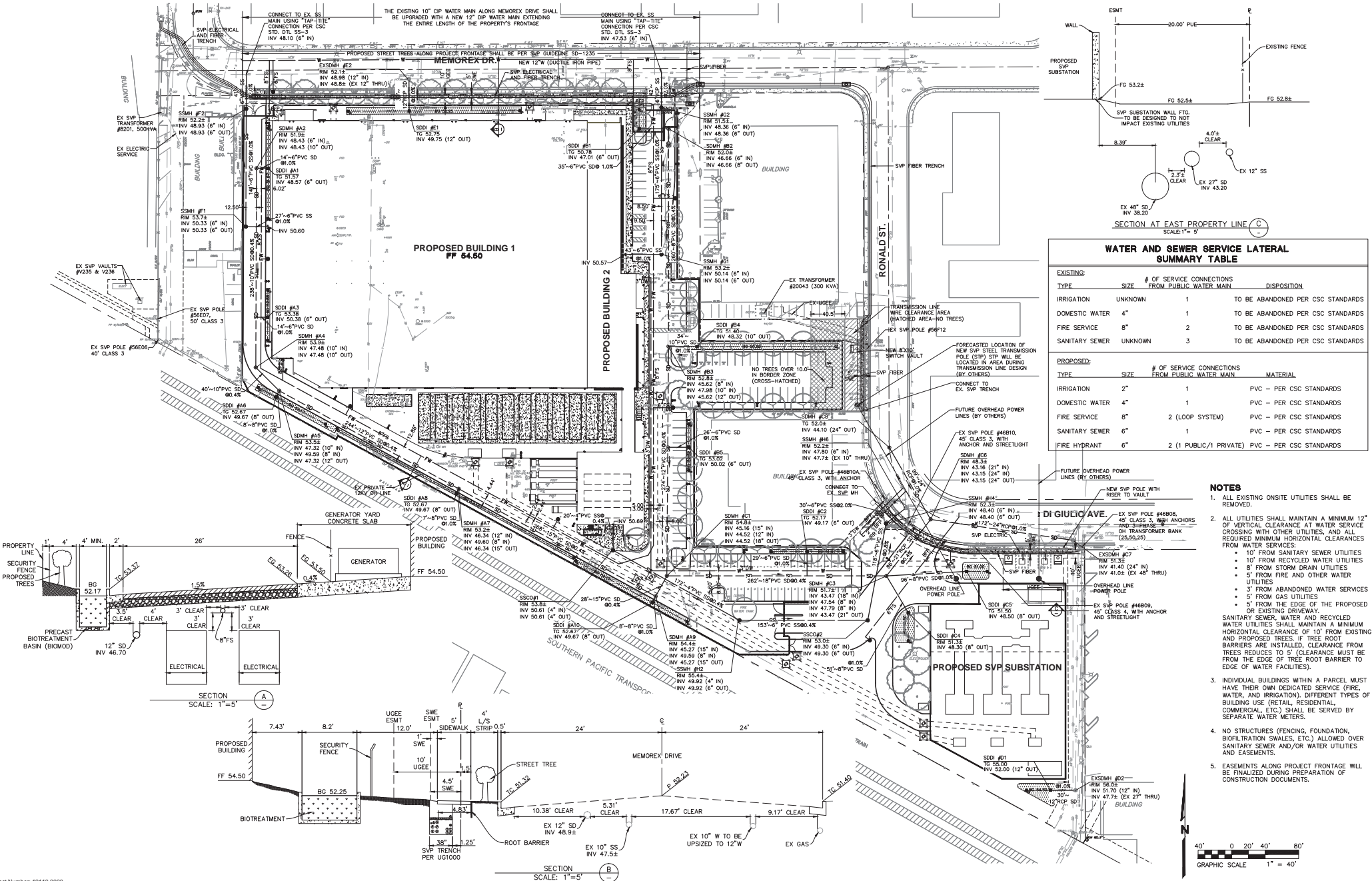
PRELIMINARY GRADING AND DRAINAGE PLAN

04.09.2020



C300

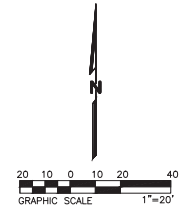
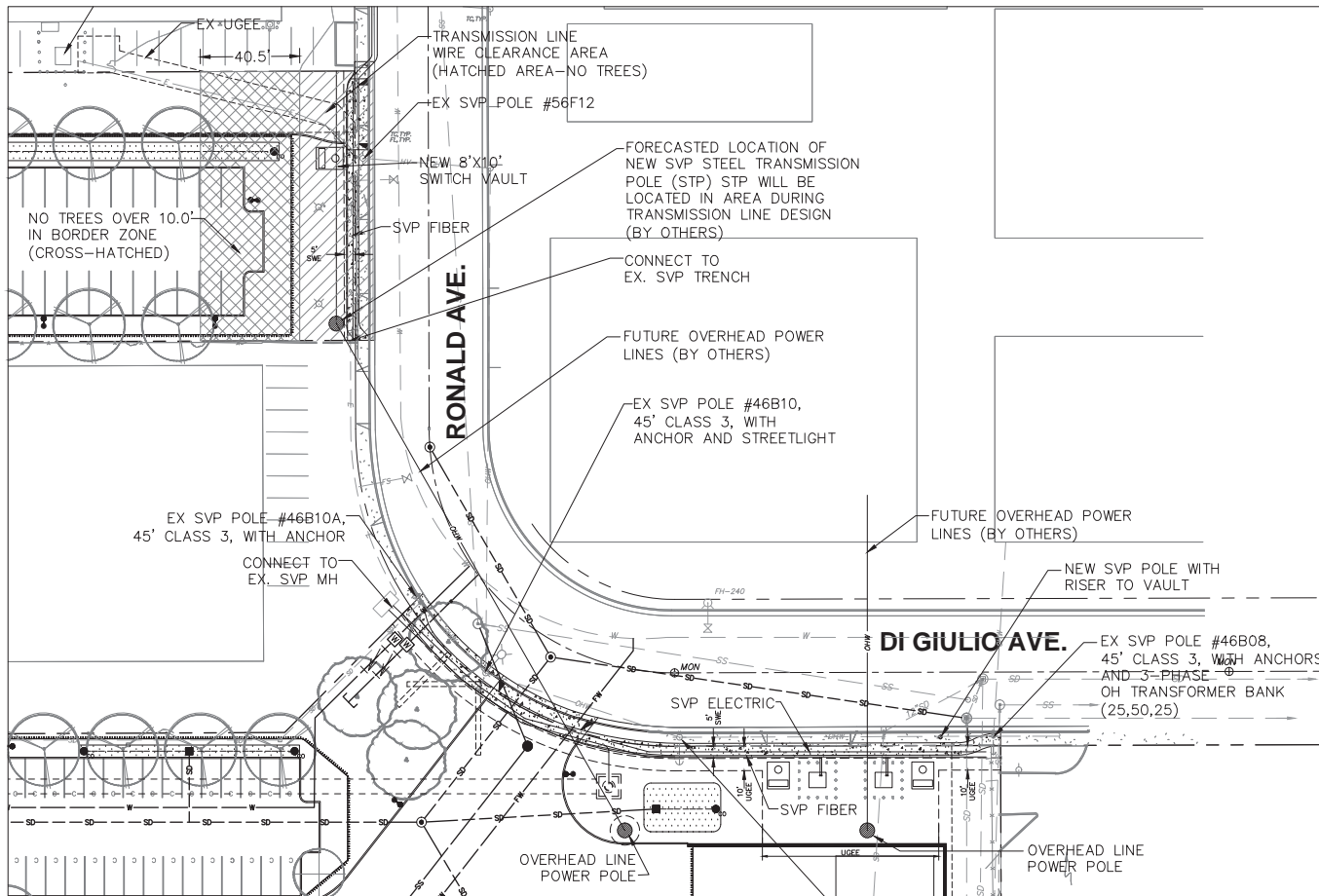
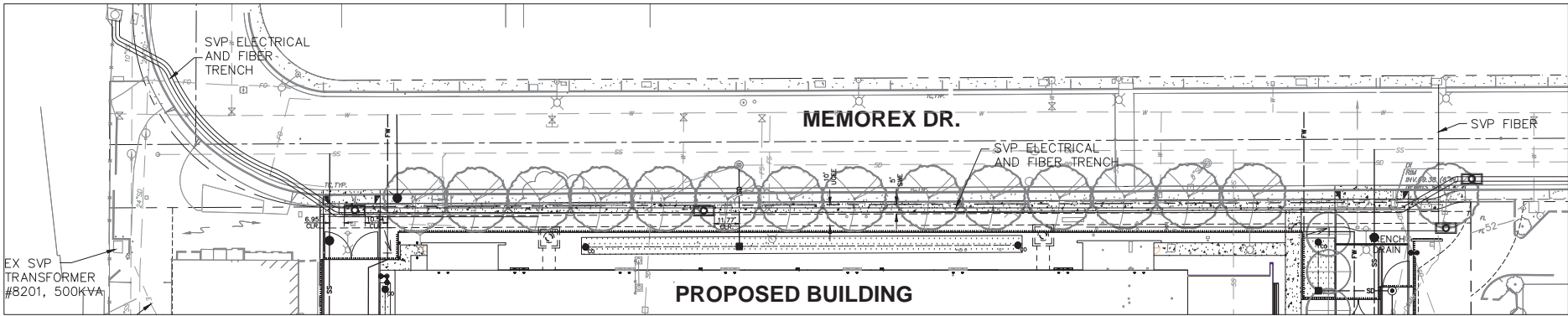
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WATER AND SEWER SERVICE LATERAL SUMMARY TABLE

EXISTING:			
TYPE	SIZE	# OF SERVICE CONNECTIONS FROM PUBLIC WATER MAIN	DISPOSITION
IRRIGATION	UNKNOWN	1	TO BE ABANDONED PER CSC STANDARDS
DOMESTIC WATER	4"	1	TO BE ABANDONED PER CSC STANDARDS
FIRE SERVICE	8"	2	TO BE ABANDONED PER CSC STANDARDS
SANITARY SEWER	UNKNOWN	3	TO BE ABANDONED PER CSC STANDARDS
PROPOSED:			
TYPE	SIZE	# OF SERVICE CONNECTIONS FROM PUBLIC WATER MAIN	MATERIAL
IRRIGATION	2"	1	PVC - PER CSC STANDARDS
DOMESTIC WATER	4"	1	PVC - PER CSC STANDARDS
FIRE SERVICE	8"	2 (LOOP SYSTEM)	PVC - PER CSC STANDARDS
SANITARY SEWER	6"	1	PVC - PER CSC STANDARDS
FIRE HYDRANT	6"	2 (1 PUBLIC/1 PRIVATE)	PVC - PER CSC STANDARDS

- ### NOTES
- ALL EXISTING ONSITE UTILITIES SHALL BE REMOVED.
 - ALL UTILITIES SHALL MAINTAIN A MINIMUM 12" OF VERTICAL CLEARANCE AT WATER SERVICE CROSSING WITH OTHER UTILITIES, AND ALL REQUIRED MINIMUM HORIZONTAL CLEARANCES FROM WATER SERVICES:
 - 10' FROM SANITARY SEWER UTILITIES
 - 10' FROM RECYCLED WATER UTILITIES
 - 8' FROM STORM DRAIN UTILITIES
 - 5' FROM FIRE AND OTHER WATER UTILITIES
 - 3' FROM ABANDONED WATER SERVICES
 - 5' FROM GAS UTILITIES
 - 5' FROM THE EDGE OF THE PROPOSED OR EXISTING DRIVEWAY
 SANITARY SEWER, WATER AND RECYCLED WATER UTILITIES SHALL MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 10' FROM EXISTING AND PROPOSED TREES. IF TREE ROOT BARRIERS ARE INSTALLED, CLEARANCE FROM TREES REDUCES TO 5' (CLEARANCE MUST BE FROM THE EDGE OF TREE ROOT BARRIER TO EDGE OF WATER FACILITIES).
 - INDIVIDUAL BUILDINGS WITHIN A PARCEL MUST HAVE THEIR OWN DEDICATED SERVICE (FIRE, WATER, AND IRRIGATION). DIFFERENT TYPES OF BUILDING USE (RETAIL, RESIDENTIAL, COMMERCIAL, ETC) SHALL BE SERVED BY SEPARATE WATER METERS.
 - NO STRUCTURES (FENCING, FOUNDATION, BIOTREATMENT SWALES, ETC) ALLOWED OVER SANITARY SEWER AND/OR WATER UTILITIES AND EASEMENTS.
 - EASEMENTS ALONG PROJECT FRONTAGE WILL BE FINALIZED DURING PREPARATION OF CONSTRUCTION DOCUMENTS.

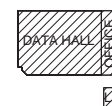


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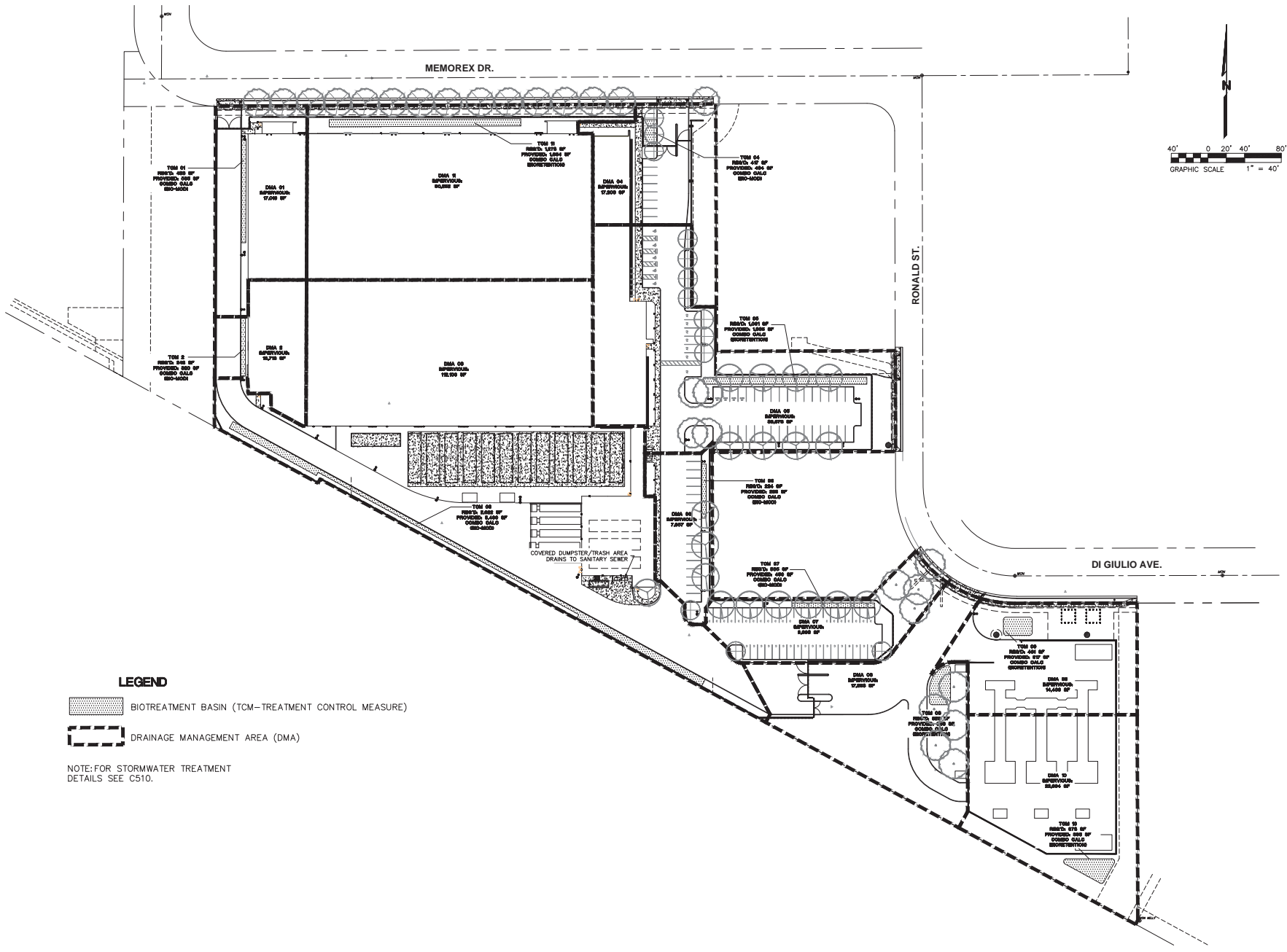
ENLARGED SVP CLEARANCE PLAN

04.09.2020





C401

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LEGEND

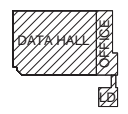
-  BIOTREATMENT BASIN (TCM-TREATMENT CONTROL MEASURE)
-  DRAINAGE MANAGEMENT AREA (DMA)

NOTE: FOR STORMWATER TREATMENT DETAILS SEE C510.



PRELIMINARY STORMWATER CONTROL PLAN

04.09.2020



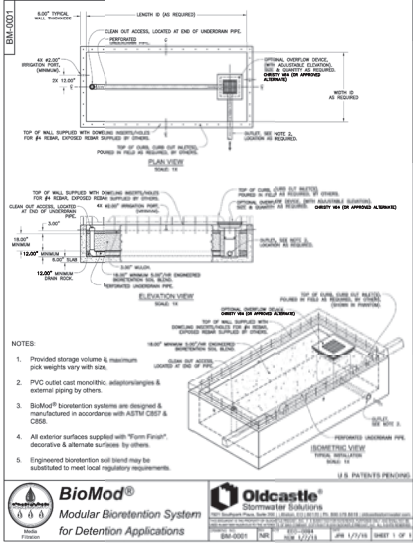
C500

BIOTREATMENT SOIL REQUIREMENTS

- BIOTREATMENT SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C-3 STORM WATER SPECIFICATIONS AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60-70% SAND AND 30-40% COMPOST. CONTRACTOR TO REFER TO APPENDIX C FOR SAND AND COMPOST MATERIAL SPECIFICATIONS.
- PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

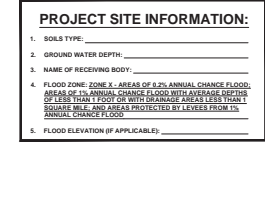
STANDARD STORMWATER CONTROL NOTES:

- STANDING WATER SHALL NOT REMAIN IN THE TREATMENT MEASURES FOR MORE THAN FIVE DAYS TO PREVENT MOSQUITO GENERATION. SHOULD ANY MOSQUITO REBORN, CONTACT THE SANTA CLARA VALLEY VECTOR CONTROL DISTRICT (DISTRICT). MOSQUITO LARVICIDES SHALL BE APPLIED ONLY WHEN ABSOLUTELY NECESSARY AS INDICATED BY THE DISTRICT, AND THEN ONLY BY A LICENSED PROFESSIONAL OR CONTRACTOR. CONTACT INFORMATION FOR THE DISTRICT IS PROVIDED BELOW.
- DO NOT USE PESTICIDES OR OTHER CHEMICAL APPLICATIONS TO TREAT DISEASED PLANTS. CONTROL WEEDS OR REMOVE WEEDS FROM AREAS OF NON-CHEMICAL CONTROLS (BIOLOGICAL, PHYSICAL AND CULTURAL CONTROLS) TO TREAT A BEST MANAGEMENT PRACTICE (BMP) AND AT THE APPROPRIATE TIME OF YEAR. PROVIDE ADEQUATE IRRIGATION FOR LANDSCAPE PLANTS. DO NOT OVER WATER.



BIORETENTION NOTES:

- SEE GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN ELEVATIONS.
- PLACE 3 INCHES OF COMPOSTED, NON-FLUTABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS.
- SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND IRRIGATION REQUIREMENTS.
- CURB CUTS SHALL BE A MINIMUM 18" WIDE AND SPACED AT MAXIMUM 10' O.C. INTERVALS AND SLOPED TO DIRECT STORMWATER TO DRAIN INTO THE BASIN. CURB CUTS SHALL ALSO NOT BE PLACED IN LINE WITH OVERFLOW CATCH BASIN.
- A MINIMUM 0.2" DROP BETWEEN STORM WATER ENTRY POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND ADJACENT LANDSCAPE FINISHED GRADE.
- DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF BASIN. LOOSEN SOIL TO 12" DEPTH.



OPERATION AND MAINTENANCE INFORMATION:

I. PROPERTY INFORMATION:

1.A. PROPERTY ADDRESS:
1220 MEMOREX DRIVE
SANTA CLARA, CA 85050

1.B. PROPERTY OWNER:
1220 SANTA CLARA PRODD, LLC

II. RESPONSIBLE PARTY FOR MAINTENANCE:

1.A. CONTACT:
JOSE SHANK

1.B. PHONE NUMBER OF CONTACT:
408.872.9500

1.C. EMAIL:
JSHANK@COM

1.D. ADDRESS:
14573 BG BASIN WAY
SARATOGA, CA 95079

SOURCE CONTROL MEASURES:

- CONNECT THE FOLLOWING FEATURES TO SANITARY SEWER:
 - COVERED TRASH/RECYCLING ENCLOSURES.
 - COVERED LOADING DOCKS AND MAINTENANCE BAYS.
- BEYOND LANDSCAPING:
 - USE OF WATER EFFICIENT IRRIGATION SYSTEMS.
 - MAINTENANCE (PAVEMENT SWEEPING, CATCH BASIN CLEANING, GOOD HOUSEKEEPING).
 - STORM DRAIN LABELING.

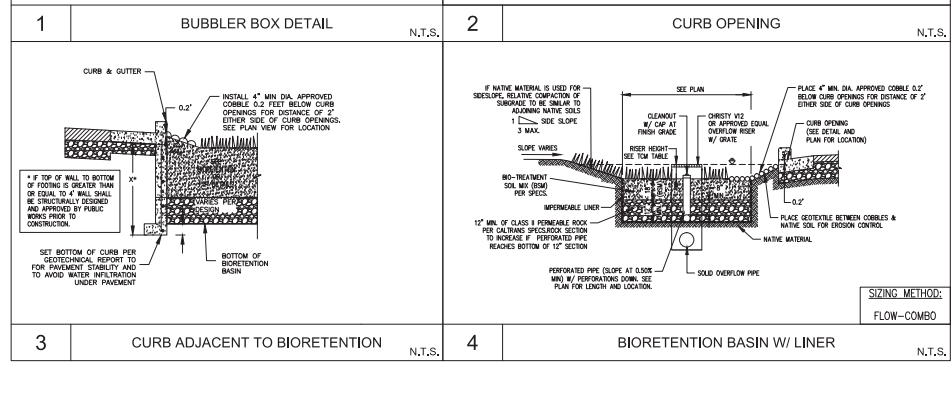
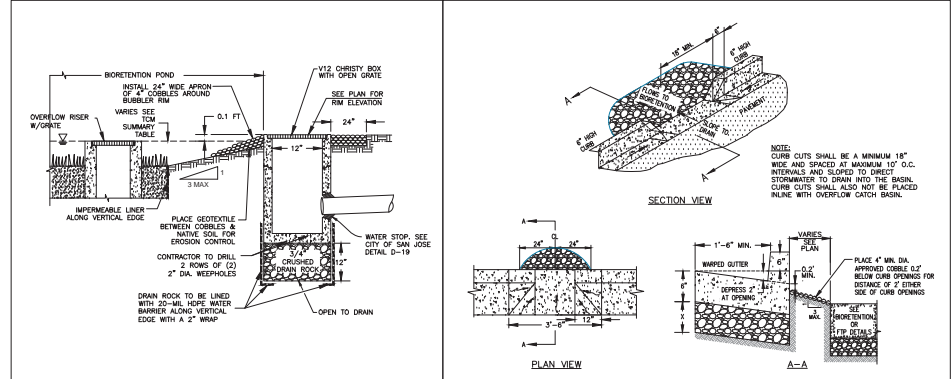
SITE DESIGN MEASURES:

- PROTECT EXISTING TREES, VEGETATION, AND SOIL.
- REMOVE EXISTING IMPERVIOUS SURFACES.
- CREATE NEW PERVIOUS AREAS.
- LANDSCAPING
 - PARKING STALLS.
 - PRIVATE STREETS AND SIDEWALKS.
- DIRECT RUNOFF FROM ROOFS, SIDEWALKS, PATIOS TO LANDSCAPED AREAS.
- CLUSTER STRUCTURES/PAVEMENT.
- PLANT TREES ADJACENT TO AND IN PARKING AREAS AND ADJACENT TO OTHER IMPERVIOUS AREAS.
- PARKING:
 - NOT PROVIDED IN EXCESS OF CODE.

PERVIOUS AND IMPERVIOUS SURFACES COMPARISON TABLE

% Total Site Area: 21.0% (Total Site Area: 1,000,000 sq ft)

Impervious Area (sq ft)	Permeable Area (sq ft)	Existing IA (sq ft)	Existing IA Replaced with (sq ft)	New IA Created (sq ft)	Total Permeable Area (sq ft)	Total Permeable Area (%)
Roof	142,000	142,000	142,000	0	142,000	14.2%
Surface Parking	30,000	0	0	30,000	30,000	3.0%
Streets, streets, etc.	28,000	0	0	28,000	28,000	2.8%
a. Total Impervious Area						199,999
b. Total new and replaced permeable area						58,000
Permeable Area (PA) (sq ft)						58,000
Landscaping						142,000
Permeable Parking						30,000
Other (e.g. Green Roof)						0
c. Total Permeable Area						230,000
d. Total Area (IA+PA)						430,000
e. Total Area (IA+PA)						430,000
f. Total Area (IA+PA)						430,000
g. Percent Replacement of IA to Permeable Programs (Total Existing to Replaced + New)						21.0%



TREATMENT CONTROL MEASURE SUMMARY TABLE

DMA #	TCM #	Location	Treatment Type	LID or Non-LID	Slating Method	Drainage Area (sq ft)	Impervious Area (sq ft)	Permeable Area (Permeable Pavement) (sq ft)	Permeable Area (Other) (sq ft)	% Onsite Area Treated by LID or Non-LID TCM	Bioretention Area (sq ft)	Bioretention Area Provided (sq ft)	Overflow Riser Height (ft)	Comments
1	1	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	20,439	17,019	0	3,420	5.11%	433	565	6	
2	2	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	11,358	10,718	0	640	2.84%	246	320	6	
3	3	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	120,939	112,100	0	8,839	30.23%	2,622	3,400	6	
4	4	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	19,400	17,203	0	2,197	4.65%	417	434	11	
5	5	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	50,925	39,878	0	11,247	12.73%	1,061	1,335	7	
6	6	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	10,889	7,957	0	2,932	2.72%	224	295	6	
7	7	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	17,148	9,893	0	7,255	4.28%	335	450	6	
8	8	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	32,265	17,253	0	15,012	8.07%	620	838	6	
9	9	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	23,258	14,409	0	8,849	5.81%	461	617	6	
10	10	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	33,203	22,694	0	10,509	8.92%	673	893	6	
11	11	Onsite	Bioretention lines w/ underdrain	LID	3. Flow-Volume Combo	60,134	50,252	0	9,882	15.03%	1,273	1,664	6	
Totals:						400,038	319,176	0	80,862	100.00%				

Footnotes:

* "Lined" refers to an impermeable liner placed on the bottom of a Bioretention basin or a concrete Flow-Through Planter, such that no infiltration into native soil occurs.

TABLE 1

ROUTINE MAINTENANCE ACTIVITIES FOR BIORETENTION AREAS

NO.	MAINTENANCE TASK	FREQUENCY OF TASK
1	REMOVE OBSTRUCTIONS, WEEDS, DEBRIS AND TRASH FROM BIORETENTION AREA AND ITS INLETS AND OUTLETS; AND DISPOSE OF PROPERLY.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
2	INSPECT BIORETENTION AREA FOR STANDING WATER. IF STANDING WATER DOES NOT DRAIN WITHIN 3 DAYS, TELL AND REPLACE THE SURFACE BIOTREATMENT SOIL WITH THE APPROVED SOIL MIX AND REPLANT.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
3	CHECK UNDERDRAINS FOR CLOGGING. USE THE CLEANOUT RISER TO CLEAN ANY CLOGGED UNDERDRAINS.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
4	MAINTAIN THE IRRIGATION SYSTEM AND ENSURE THAT PLANTS ARE RECEIVING THE CORRECT AMOUNT OF WATER (IF APPLICABLE).	QUARTERLY
5	ENSURE THAT THE VEGETATION IS HEALTHY AND DENSE ENOUGH TO PROVIDE FILTERING AND PROTECT SOILS FROM EROSION. PRUNE AND WEED THE BIORETENTION AREA. REMOVE AND/OR REPLACE ANY DEAD PLANTS.	ANNUALLY, BEFORE THE WET SEASON BEGINS
6	USE COMPOST AND OTHER NATURAL SOIL AMENDMENTS AND FERTILIZERS INSTEAD OF SYNTHETIC FERTILIZERS, ESPECIALLY IF THE SYSTEM USES AN UNDERDRAIN.	ANNUALLY, BEFORE THE WET SEASON BEGINS
7	CHECK THAT MULCH IS AT APPROPRIATE DEPTH (2 - 3 INCHES PER SOIL SPECIFICATIONS) AND REPLENISH AS NECESSARY BEFORE WET SEASON BEGINS. IT IS RECOMMENDED THAT 2" - 3" OF ARBOR MULCH BE REAPPLIED EVERY YEAR.	ANNUALLY, BEFORE THE WET SEASON BEGINS
8	INSPECT THE ENERGY DISSIPATION AT THE INLET TO ENSURE IT IS FUNCTIONING ADEQUATELY, AND THAT THERE IS NO SCOUR OF THE SURFACE MULCH. REMOVE ACCUMULATED SEDIMENT.	ANNUALLY, BEFORE THE WET SEASON BEGINS
9	INSPECT OVERFLOW PIPE TO ENSURE THAT IT CAN SAFELY CONVEY EXCESS FLOWS TO A STORM DRAIN. REPAIR OR REPLACE DAMAGED PIPING.	ANNUALLY, BEFORE THE WET SEASON BEGINS
10	REPLACE BIOTREATMENT SOIL AND MULCH, IF NEEDED. CHECK FOR STANDING WATER, STRUCTURAL FAILURE AND CLOGGED OVERFLOWS. REMOVE TRASH AND DEBRIS. REPLACE DEAD PLANTS.	ANNUALLY, BEFORE THE WET SEASON BEGINS
11	INSPECT BIORETENTION AREA USING THE ATTACHED INSPECTION CHECKLIST.	ANNUALLY, BEFORE THE WET SEASON

SIZING FOR VOLUME BASED TREATMENT	
DMA #	20
Impervious Area =	17,019 sq. ft.
% Imperviousness =	83.27%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.52512858 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.34950185 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.62512858 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.8402402 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	925.18 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	29,439 sq. ft.
Impervious Area =	17,019 sq. ft.
Pervious Area =	3,420 sq. ft.
Equivalent Impervious Area =	3,420 sq. ft.
Total Equivalent Impervious =	17,347 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.701201 hrs
Estimate the Surface Area =	345 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	635.9077 [cu. ft.]
Volume in Ponding Area =	294.2253 [cu. ft.]
Depth of Ponding =	0.5031086 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	1
Impervious Area =	10,661 sq. ft.
% Imperviousness =	94.43%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.55972302 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.35952804 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.55972302 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.8788202 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	843.20 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	11,325 sq. ft.
Impervious Area =	10,661 sq. ft.
Pervious Area =	631 sq. ft.
Equivalent Impervious Area =	631 sq. ft.
Total Equivalent Impervious =	10,794 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.871688 hrs
Estimate the Surface Area =	320 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	383.8607 [cu. ft.]
Volume in Ponding Area =	139.4038 [cu. ft.]
Depth of Ponding =	0.4861531 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	1
Impervious Area =	117,100 sq. ft.
% Imperviousness =	92.69%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.55434321 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.35767497 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.55434321 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.8702056 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	874.98 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	126,209 sq. ft.
Impervious Area =	117,100 sq. ft.
Pervious Area =	8,939 sq. ft.
Equivalent Impervious Area =	8,939 sq. ft.
Total Equivalent Impervious =	112,984 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.8514776 hrs
Estimate the Surface Area =	3400 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	4029.2612 [cu. ft.]
Volume in Ponding Area =	1767.2676 [cu. ft.]
Depth of Ponding =	0.5022493 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	1
Impervious Area =	17,203 sq. ft.
% Imperviousness =	88.88%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.5418933 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.35952804 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.5418933 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.8374874 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	861.27 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	18,400 sq. ft.
Impervious Area =	17,203 sq. ft.
Pervious Area =	2,197 sq. ft.
Equivalent Impervious Area =	2,197 sq. ft.
Total Equivalent Impervious =	17,423 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.7874368 hrs
Estimate the Surface Area =	450 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	564.0014 [cu. ft.]
Volume in Ponding Area =	387.2074 [cu. ft.]
Depth of Ponding =	0.9152298 [inches]
Depth of Ponding =	11 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	8
Impervious Area =	39,675 sq. ft.
% Imperviousness =	77.91%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.5095052 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.33154373 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.6083286 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.821693 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	2,220.30 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	50,920 sq. ft.
Impervious Area =	39,675 sq. ft.
Pervious Area =	11,245 sq. ft.
Equivalent Impervious Area =	11,245 sq. ft.
Total Equivalent Impervious =	49,890 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.816865 hrs
Estimate the Surface Area =	1,350 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	1,653.0468 [cu. ft.]
Volume in Ponding Area =	765.1511 [cu. ft.]
Depth of Ponding =	0.5731348 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

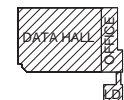
SIZING FOR VOLUME BASED TREATMENT	
DMA #	6
Impervious Area =	7,952 sq. ft.
% Imperviousness =	71.07%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.4955986 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.31921123 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.4932861 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.677376 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	466.72 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	10,880 sq. ft.
Impervious Area =	7,952 sq. ft.
Pervious Area =	2,928 sq. ft.
Equivalent Impervious Area =	2,928 sq. ft.
Total Equivalent Impervious =	6,290 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.836644 [hrs]
Estimate the Surface Area =	260 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	312.0420 [cu. ft.]
Volume in Ponding Area =	148.6902 [cu. ft.]
Depth of Ponding =	0.540016 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	7
Impervious Area =	9,855 sq. ft.
% Imperviousness =	57.64%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.4455447 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.2730258 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.4489447 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.486748 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	685.48 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	17,148 sq. ft.
Impervious Area =	9,855 sq. ft.
Pervious Area =	7,293 sq. ft.
Equivalent Impervious Area =	7,293 sq. ft.
Total Equivalent Impervious =	16,814 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.333141 hrs
Estimate the Surface Area =	450 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	430.0070 [cu. ft.]
Volume in Ponding Area =	225.4368 [cu. ft.]
Depth of Ponding =	0.5008748 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	3
Impervious Area =	17,253 sq. ft.
% Imperviousness =	53.47%
MA/Pave =	14.3
MA/Grass =	13.9
Clay (D) =	X
Sandy Clay (D) =	
Clay Loam (D) =	
Silt Loam/Loam (B) =	Not Applicable (100% Impervious)
Are the soils outside the building footprint grade/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay). Modified Soil Type	
S =	1.00%
UBS Volume for 1% Slope (UBS1%) =	0.4337598 [inches (Use Figure B-2)]
UBS Volume for 15% Slope (UBS15%) =	0.2684194 [inches (Use Figure B-5)]
UBS Volume for X% Slope (UBSX%) =	0.4327689 [inches (Corrected Slope for the site)]
Adjusted UBS =	Correction Factor (Step 2) x UBSx% (Step 5)
Adjusted UBS =	0.4682194 [inches]
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 [in]	
Design Volume =	1,187.98 [m ³]
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	32,250 sq. ft.
Impervious Area =	17,253 sq. ft.
Pervious Area =	15,000 sq. ft.
Equivalent Impervious Area =	15,000 sq. ft.
Total Equivalent Impervious =	18,754 sq. ft.
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.226989 hrs
Estimate the Surface Area =	450 sq. ft. (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	777.2783 [cu. ft.]
Volume in Ponding Area =	419.8547 [cu. ft.]
Depth of Ponding =	0.5008603 [inches]
Depth of Ponding =	0 inches (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bio-retention or Flow-Through Planters.	



PRELIMINARY STORMWATER CALCULATIONS



SIZING FOR VOLUME BASED TREATMENT	
DMA #	23
Impervious Area =	23,234 sq ft
% Imperviousness*	61.95%
MAPdate =	14.3
MAPpage =	13.9
Correction Factor =	1.0288
Clay (C)	X
Sandy Clay (D)	
Clay Loam (E)	
Silt Loam (F)	
Not Applicable (100% Impervious)	
Are the soils outside the building footprint graded/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay).	
Modified Soil Type	
S =	1.00%
LBS Volume for 1% Slope (LBS1%) =	0.45905352 inches (See Figure B-2)
LBS Volume for 15% Slope (LBS15%) =	0.48988963 inches (See Figure B-2)
LBS Volume for X% Slope (LBSX%) =	0.48988963 inches (Corrected Slope for the site)
Adjusted LBS =	Correction Factor (Step 2) x LBSx% (Step 5)
Adjusted UBS =	0.4722841 inches
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 (in)	
Design Volume =	918.33 cu ft
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	23,234 sq ft
Impervious Area =	14,400 sq ft
Pervious Area =	8,834 sq ft
Equivalent Impervious Area =	965 sq ft
Total Equivalent Impervious =	15,294 sq ft
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.3612306 hrs
Estimate the Surface Area =	917 sq ft (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	67.05613 cu ft
Volume in Ponding Area =	308.27026 cu ft
Depth of Ponding =	0.4992738 ft (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bioretention or Flow-Through Planters.	

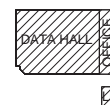
SIZING FOR VOLUME BASED TREATMENT	
DMA #	10
Impervious Area =	32,263 sq ft
% Imperviousness*	68.18%
MAPdate =	14.3
MAPpage =	13.9
Correction Factor =	1.0288
Clay (C)	X
Sandy Clay (D)	
Clay Loam (E)	
Silt Loam (F)	
Not Applicable (100% Impervious)	
Are the soils outside the building footprint graded/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay).	
Modified Soil Type	
S =	1.00%
LBS Volume for 1% Slope (LBS1%) =	0.47817317 inches (See Figure B-2)
LBS Volume for 15% Slope (LBS15%) =	0.5045488 inches (See Figure B-2)
LBS Volume for X% Slope (LBSX%) =	0.47817317 inches (Corrected Slope for the site)
Adjusted LBS =	Correction Factor (Step 2) x LBSx% (Step 5)
Adjusted UBS =	0.4621285 inches
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 (in)	
Design Volume =	1,384.89 cu ft
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	32,263 sq ft
Impervious Area =	22,094 sq ft
Pervious Area =	10,169 sq ft
Equivalent Impervious Area =	1,029 sq ft
Total Equivalent Impervious =	23,783 sq ft
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.4886976 hrs
Estimate the Surface Area =	953 sq ft (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	215.84155 cu ft
Volume in Ponding Area =	443.40544 cu ft
Depth of Ponding =	0.5023292 ft (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bioretention or Flow-Through Planters.	

SIZING FOR VOLUME BASED TREATMENT	
DMA #	11
Impervious Area =	63,134 sq ft
% Imperviousness*	81.57%
MAPdate =	14.3
MAPpage =	13.9
Correction Factor =	1.0288
Clay (C)	X
Sandy Clay (D)	
Clay Loam (E)	
Silt Loam (F)	
Not Applicable (100% Impervious)	
Are the soils outside the building footprint graded/compacted?	No Yes/No
If yes, and the soil will be compacted during site preparation and grading, the soil infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay).	
Modified Soil Type	
S =	1.00%
LBS Volume for 1% Slope (LBS1%) =	0.52056677 inches (See Figure B-2)
LBS Volume for 15% Slope (LBS15%) =	0.5507061 inches (See Figure B-2)
LBS Volume for X% Slope (LBSX%) =	0.52056677 inches (Corrected Slope for the site)
Adjusted LBS =	Correction Factor (Step 2) x LBSx% (Step 5)
Adjusted UBS =	0.5111981 inches
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1812 (in)	
Design Volume =	2,712.02 cu ft
COMBO FLOW & VOLUME BIORETENTION CALCULATION	
Total Drainage Area =	66,134 sq ft
Impervious Area =	50,292 sq ft
Pervious Area =	9,842 sq ft
Equivalent Impervious Area =	968 sq ft
Total Equivalent Impervious =	81,240 sq ft
Rainfall Intensity =	0.2 in/hr
Duration = Adjusted UBS (Step 6) / Rainfall Intensity	
Duration =	2.7069785 hrs
Estimate the Surface Area =	1854 sq ft (Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	1876.143 cu ft
Volume in Ponding Area =	833.87363 cu ft
Depth of Ponding =	0.5023292 ft (Round up)
If Depth of Ponding is less than 6" the design can be optimized with a smaller surface area. (repeat)	
If Depth of Ponding is greater than 12" a larger surface area will be required. (repeat)	
If Depth of Ponding is between 6" to 12" this is the range allowable for Bioretention or Flow-Through Planters.	



PRELIMINARY STORMWATER CALCULATIONS

04.09.2020



C521

MEMOREX DR.

RONALD ST.

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REPLACEMENT	WUCOLS	SPEED & COMPLIANT
TREES							
11	LAGERHEDDIA I. ZERAMPANG	AGUAYAO GRAPE HYDRILE	13	24" BOB	STANDARD	LOW	COMPLIANT
12	QUERUS ZONIFOLIA	COAST LIVE OAK	30	30" BOB	LOW BRANCH	LOW	COMPLIANT
13	LAURUS S. ROTUNDOLOBI	DOGWOOD	4	24" BOB	LOW	LOW	COMPLIANT
14	KOELBOUTERIA MANGLATA	SMOKY WOOD	18	24" BOB	STANDARD	LOW	COMPLIANT
15	LAURUS SERRIFOLIUS	SMOKY WOOD	18	24" BOB	STANDARD	LOW	COMPLIANT
16	CUPRESSUS SEMPERVERENS	ITALIAN CYPRESS	32	3" GAL	COLUMNAR	LOW	COMPLIANT
SHRUBS							
8	CALLISTEMON C. LITTLE JONAS	LITTLE JONAS DWARF BERTILBERNIA	15	3" GAL		LOW	
9	HYDRANGEA L. VARESIATA	VARESIATED HYDRANGEA	22	3" GAL		LOW	
10	PHORADENDRON MADRERI	NEW ZEALAND FLAX	28	3" GAL		LOW	
17	TELEKIA V. TRICOLORA	TRICOLORA SWEET GUM	248	3" GAL		LOW	COMPLIANT
88	DIETES A. VARESIATA	STRIPED PORTULACIA	2	3" GAL		LOW	
89	HYDRANGEA L. VARESIATA	VARESIATED HYDRANGEA	22	3" GAL		LOW	
87	HELIOPSIS I. PRINCE	DWARF YERBO WASHINGTON	30	3" GAL		LOW	
88	CHENOPodium ALB. TECTORUM	W/FLY CAME RUSH	24	3" GAL		LOW	COMPLIANT
89	LANGUIS PATENS	CALIFORNIA GRAY RUSH	30	3" GAL		LOW	COMPLIANT
90	PHALANOPSIS REGENS	THREE GRASS	68	3" GAL		LOW	COMPLIANT
91	DODONAEA V. BURKATONII	WORMEDED BURN	37	3" GAL		LOW	COMPLIANT
92	EL-SEGUNDA V. VARESIATA	VARESIATED SILVERBERRY	2	3" GAL		LOW	
GROUND COVERS							
01	ELAEAGNUS PARVIFLORUS	STALKED BULBINE	1000	1" GAL	18" OC	LOW	
02	ROSEMARY O. MENTHAYON CARPET	CARPET ROSEMARY	1000	1" GAL	36" OC	LOW	
03	PEROVSKIA A. LITTLE BUNNY	LITTLE BUNNY PORTULACIUM	1000	1" GAL	24" OC	LOW	
04	MACONIA REPENS	CREEPING MACONIA	1000	1" GAL	24" OC	LOW	COMPLIANT
05	RYOGE FALCH	W/SEA RIVER LAUREL	1000	1" GAL	37" OC	LOW	
06	MARULLA DOUGLASSII	VERBENA BILBA	1000	1" GAL	24" OC	LOW	
07	NAIVE REED THE	HYDRANGEA	1000	1" GAL		LOW	
08	BACCHARIS PILLARIS THORON POINT	DWARF COYOTE BRUSH	1000	1" GAL	48" OC	LOW	

PROPOSED BUILDING 1

PLANT NOTES:

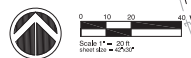
- THE CONTRACTOR SHALL VERIFY PLANT QUANTITIES FROM THE PLANTING PLAN. QUANTITIES SHOWN IN THE LEGEND ARE FOR CONVENIENCE ONLY.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE PLANTING PLAN.
- PLANT GROUNDCOVER IN SHUBS AREAS AS NOTED. USE TRIANGULAR SPACING.
- SEE DETAIL AND SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION.
- THERE WILL BE NO MATERIALS OR PLANT MATERIALS SUBSTITUTIONS WITHOUT APPROVAL OF THE OWNER OR THE LANDSCAPE ARCHITECT.
- ALL SLOPES PLANTED WITH GROUND COVER NOT TO EXCEED A 2:1 SLOPE.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS (24 MIN)
- IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE PLAN AND ACTUAL SITE CONDITIONS, THE LANDSCAPE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY.
- ENTIRE SITE IS TO BE ROUGH GRADED BY THE GRADING CONTRACTOR TO WITHIN SIXTH FOOT OF FINISH GRADE. LANDSCAPE CONTRACTOR IS TO FINISH GRADE ALL LANDSCAPE AREAS.
- ALL SITE UTILITIES ARE TO BE PROTECTED DURING CONSTRUCTION. IN THE EVENT OF CONFLICT BETWEEN THE PLANS AND UTILITIES THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT. ANY DAMAGE TO UTILITIES, STRUCTURES, OR OTHER FEATURES TO REMAIN AND CAUSED BY THE LANDSCAPE CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- THE WORK IN THESE DRAWINGS AND SPECIFICATIONS MAY RUN CONCURRENTLY WITH WORK BY OTHERS. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS.
- PRIOR TO ANY DIGGING OR TRENCHING, CALL UNDERGROUND SERVICE ALERT 1-800-227-2600

GENERATOR YARD

PROPOSED BUILDING 2

PLANT SYMBOLS

- INDICATES PLANT KEY
- INDICATES PLANT QUANTITY

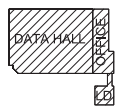


Project Number: 19110.0000



LANDSCAPE PLANTING PLAN

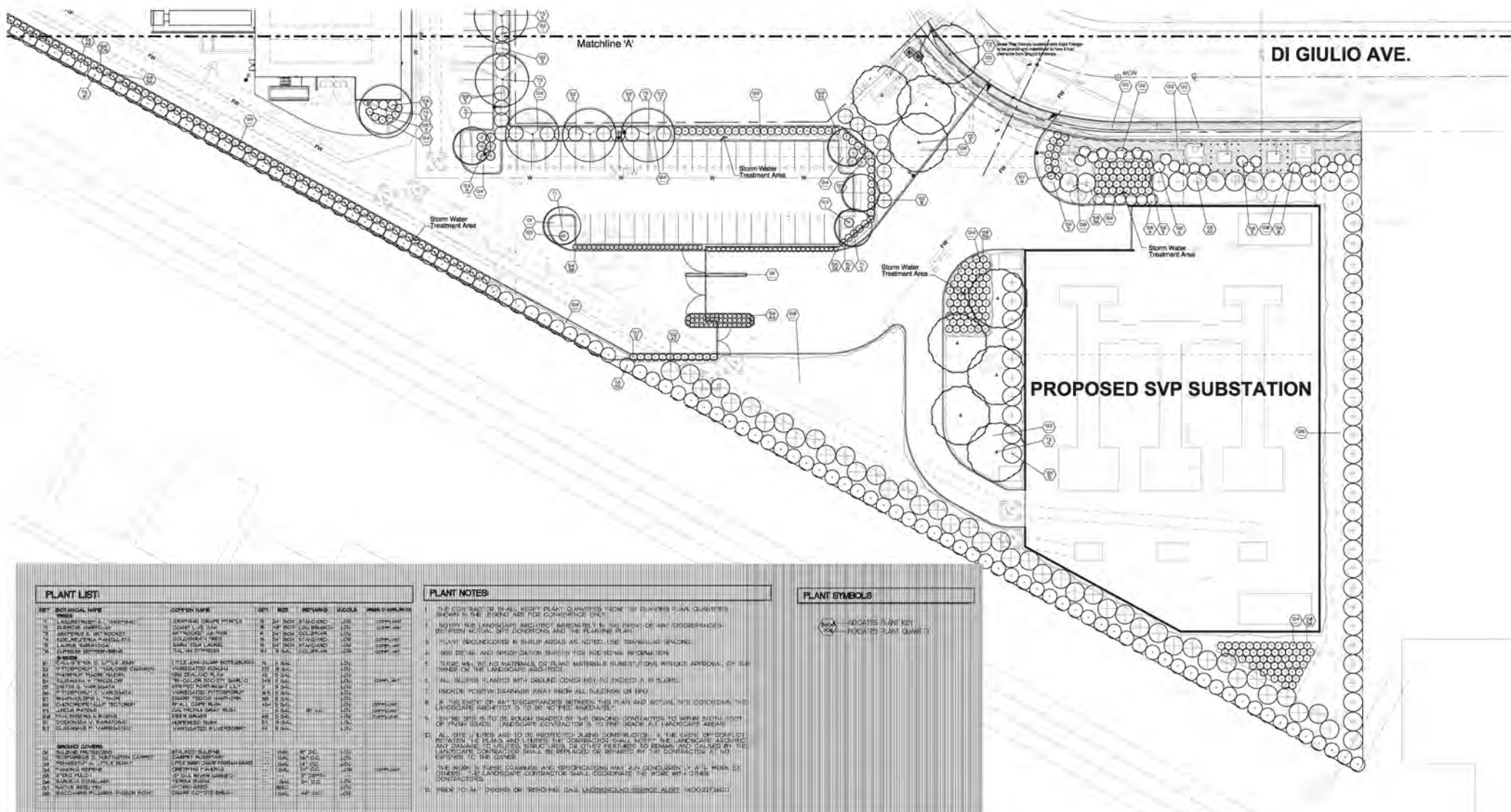
04-09-2020



L-100

Matchline 'A'

When The City is Issued Final Right To Proceed The Contractor Shall Submit A Final Schedule For Approval



PLANT LIST:						
REF	BOTANICAL NAME	COMMON NAME	QTY	REF	REMARKS	SCALE
1	ADONIS AETHEUS	ADONIS AETHEUS	1	1	ADONIS AETHEUS	1:1
2	ADONIS AETHEUS	ADONIS AETHEUS	1	2	ADONIS AETHEUS	1:1
3	ADONIS AETHEUS	ADONIS AETHEUS	1	3	ADONIS AETHEUS	1:1
4	ADONIS AETHEUS	ADONIS AETHEUS	1	4	ADONIS AETHEUS	1:1
5	ADONIS AETHEUS	ADONIS AETHEUS	1	5	ADONIS AETHEUS	1:1
6	ADONIS AETHEUS	ADONIS AETHEUS	1	6	ADONIS AETHEUS	1:1
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17	ADONIS AETHEUS	ADONIS AETHEUS	1	17	ADONIS AETHEUS	1:1
18	ADONIS AETHEUS	ADONIS AETHEUS	1	18	ADONIS AETHEUS	1:1
19	ADONIS AETHEUS	ADONIS AETHEUS	1	19	ADONIS AETHEUS	1:1
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PLANT NOTES:

- THE CONTRACTOR SHALL VERIFY PLANT QUANTITIES FROM THE SUPPLIER'S PLANT QUANTITIES SHOWN IN THE SCHEDULE FOR CONFORMANCE ONLY.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE PLANTING PLAN.
- PLANT RELOCATIONS IN SCHEDULED AREAS AS NOTED, USE STANDARD SPACING.
- SEE DETAIL AND SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION.
- TRIPLE MULCH OR NO MATERIALS OR PLANT MATERIALS SUBSTITUTIONS WITHOUT APPROVAL OF THE OWNER OR THE LANDSCAPE ARCHITECT.
- ALL PLANTS PLANTED INTO GRAVIL SHALL BE PROTECTED BY A 18" SLURRY.
- REMOVE PROTECTIVE DECKING FROM ALL ROOFS OR SLOPE.
- IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE PLAN AND ACTUAL SITE CONDITIONS, THE LANDSCAPE ARCHITECT'S TO BE NOTICE IMMEDIATELY.
- IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE PLAN AND ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
- ALL SITE LINES ARE TO BE PROTECTED USING CONSTRUCTION BARRIERS TO PREVENT CONFLICT BETWEEN THE PLANS AND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY UTILITIES, STRUCTURES, OR OTHER FEATURES TO REMOVE AND COLLECT BY THE LANDSCAPE CONTRACTOR SHALL BE REPLACED OR REINSTALLED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- THE WORK IS FIELD CORRECT AND REVISIONS MAY BE A CONCLUSION OF A FIELD WORK BY CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS.
- PRIDE TO ALL DIGGING OR REMOVAL SHALL BE RESPONSIBLE TO THE CONTRACTOR.

PLANT SYMBOLS:

INDICATES PLANT QUANTITY
 INDICATES PLANT QUANTITY



Project Number: 19115.0000

SKYBOX
 CORGAN
 R G
 CRITICAL
 KW
 REED ASSOCIATES

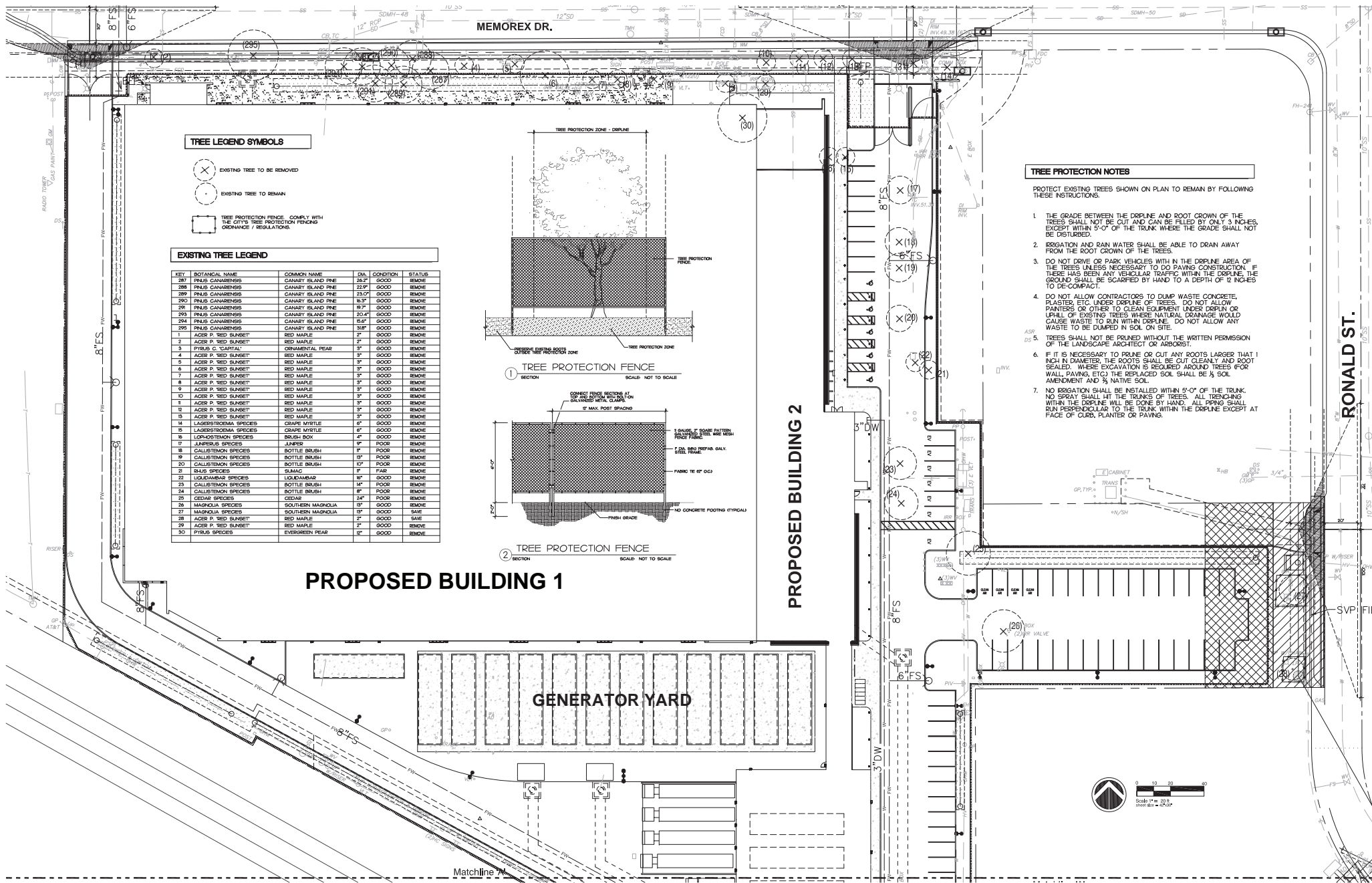
LANDSCAPE PLANTING PLAN

04-08-2020



DATA HALL OFFICE

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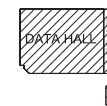


Project Number: 19110.0000



EXISTING TREE PLAN

04-09-2020



MEMOREX DR.

RONALD ST.

PROPOSED BUILDING 1

Appendix B - Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET₀) 43.0
 MAMA - Regular Landscape Areas
 MAMA = (ET₀ x 0.65) x (ETAF x LA) + (LA x ETAF x SLA)
 Landscape area 75,400 sq. ft.
 SLA 0 sq. ft.
 ETAF 0.284 Average ETAF for Regular Landscape Areas must be 0.25 for residential areas, and 0.45 for nonresidential areas.
 total area SLA 75,400 sq. ft.
 MAMA total 504,870 gallons per year

ETAW - Regular Landscape Areas

ETAW = (ET₀ x 0.65) x (ETAF x LA) + (SLA)

Hydrozone Number	Plant water use	Plant factor (PF)	Irrigation method	Irrigation efficiency	ETAF (PF) E	Hydrozone area	ETAF x Area	ETAW
1	low	0.2	MS	0.81	0.247	4,408	1,084.4	42,774
2	medium	0.5	MS	0.81	0.617	183	113.2	5,012
3	low	0.2	MS	0.81	0.247	1,862	458	10,870
4	low	0.2	MS	0.81	0.247	1,708	374	7,294
5	low	0.2	MS	0.81	0.247	5,551	1,813	42,992
6	low	0.2	MS	0.81	0.247	7,113	1,766	46,910
7	low	0.2	overhead water	0.70	0.286	16,260	4,648	123,303
8	low	0.2	overhead water	0.70	0.286	14,244	4,070	108,489
9	low	0.2	MS	0.81	0.247	2,968	1,299	30,669
10	low	0.2	MS	0.81	0.247	570	141	3,752
11	low	0.2	MS	0.81	0.247	1,700	460	11,091
12	low	0.2	MS	0.81	0.247	2,021	502	16,090
13	low	0.2	MS	0.81	0.247	1,800	447	11,968
14	low	0.2	MS	0.81	0.247	3,115	789	30,005
15	low	0.2	MS	0.81	0.247	2,280	560	14,508
16	low	0.2	MS	0.81	0.247	809	200	8,310
17	low	0.2	MS	0.81	0.247	2,077	513	13,872
18	low	0.2	MS	0.81	0.247	1,294	426	11,349
SLA	—	1.0	—	1.00	1.000	0	0	0
A	rock mulch	0.0	—	1.00	0.004	0	0	0

ETAW total (w/ SLA) 75,400 19870.96 529,760
 Total with all zones and SLA 76,142

ETAF calculation:
 total ETAF x area 19870.96 sq. ft.
 total area 75,400 sq. ft.
 average ETAF 0.284 Average ETAF for Regular Landscape Areas must be 0.25 for residential areas, and 0.45 for nonresidential areas.

TOTALS
 MAMA total 504,870 gallons per year
 ETAW total 529,760 gallons per year
 4.1% Percentage reduction of Proposed Irrigation Water
 (does not include Evaporation calculations)

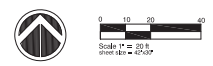
IRRIGATION HYDRO-ZONE LEGEND

PLANTS ARE GROUP TO HAVE MATCHING WATER REQUIREMENTS AND MICRO-CLIMATE CHARACTERISTICS.

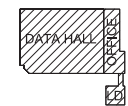
- MEDIUM WATER REQUIREMENT
- LOW WATER REQUIREMENT
- GRAVEL MULCH - NOT INCLUDED IN WATER BUDGET

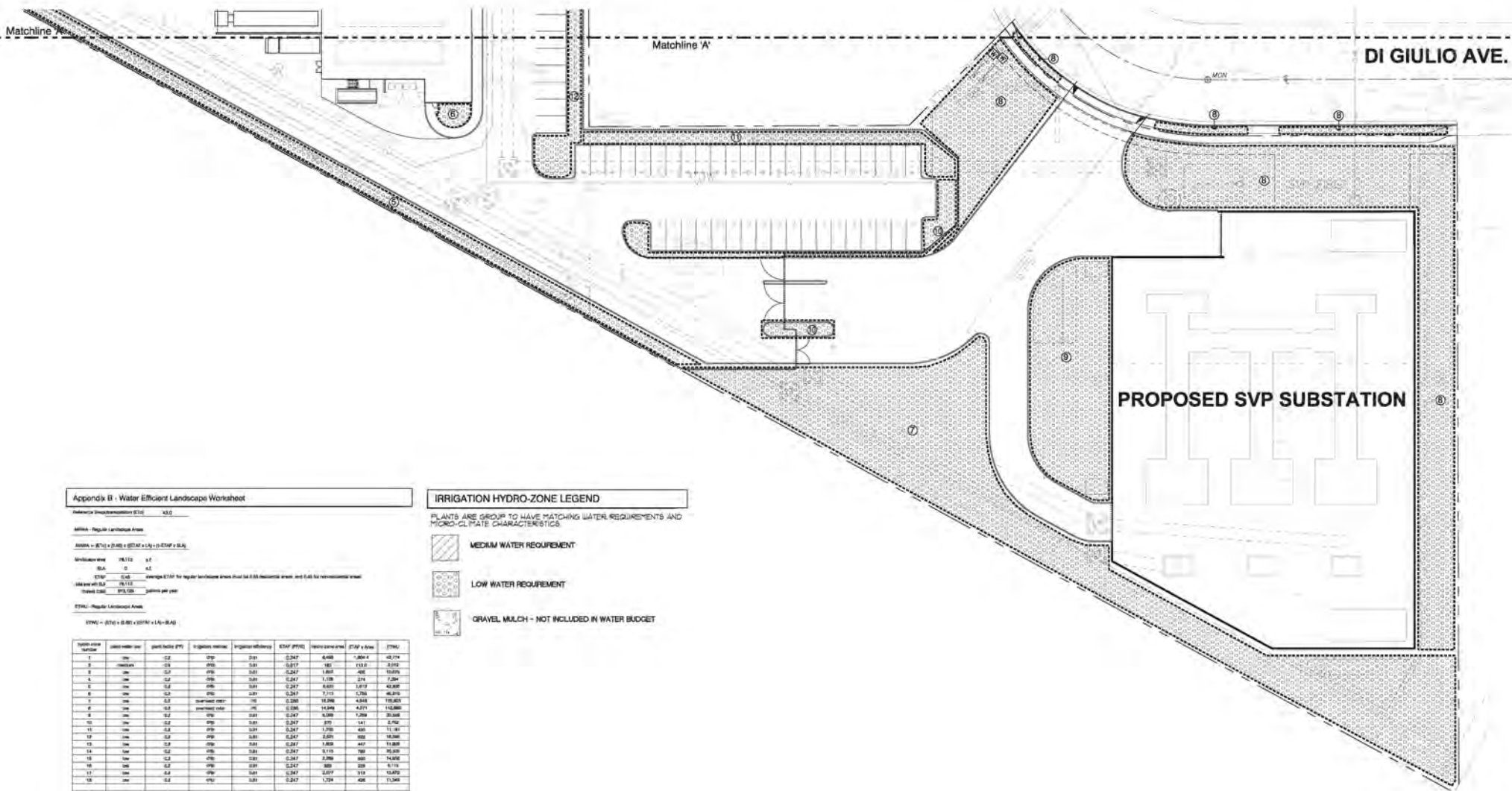
PROPOSED BUILDING 2

GENERATOR YARD



LANDSCAPE HYDROZONE PLAN





Appendix B - Water Efficient Landscape Worksheet

Reference Implementation: 0110 43.0
 Method: Regular Landscaping Areas
 $IRWA = (ETAP \times 0.85) + (ETAP \times 1.5) + (0 \times ETAP \times 0.5)$
 Method Area: 78,112 sq. ft.
 BA: 0 sq. ft.
 ETAP: 0.264 Average ETAP for regular landscape areas shall be 0.25 for non-irrigated areas and 0.25 for non-irrigated areas.
 Method Area: 78,112 sq. ft.
 Proposed IRWA: 974,128 gallons per year
 ETAP: Regular Landscaping Areas
 $ETAP = (ETAP \times 0.85) + (ETAP \times 1.5) + (0 \times ETAP)$

Hydrozone Number	Plant Water Use	Plant Factor (PF)	Plant Species	Irrigation Efficiency	ETAP (PF)	Area (sq. ft.)	ETAP x Area	IRWA
1	low	0.2	SP	0.81	0.247	4,448	1,088.4	48,774
2	medium	0.8	SP	0.81	0.657	183	120.2	3,312
3	low	0.2	SP	0.81	0.247	1,893	468	19,974
4	low	0.2	SP	0.81	0.247	1,138	281	7,384
5	low	0.2	SP	0.81	0.247	4,888	1,212	49,884
6	low	0.2	SP	0.81	0.247	7,171	1,772	68,874
7	low	0.2	medium water	0.8	0.248	18,286	4,544	198,864
8	low	0.2	medium water	0.8	0.248	14,888	3,712	152,884
9	low	0.2	SP	0.81	0.247	4,388	1,088	33,884
10	low	0.2	SP	0.81	0.247	371	91	2,712
11	low	0.2	SP	0.81	0.247	7,388	1,848	71,884
12	low	0.2	SP	0.81	0.247	2,871	712	26,874
13	low	0.2	SP	0.81	0.247	1,888	472	17,884
14	low	0.2	SP	0.81	0.247	1,113	278	9,874
15	low	0.2	SP	0.81	0.247	2,788	698	24,884
16	low	0.2	SP	0.81	0.247	888	222	8,774
17	low	0.2	SP	0.81	0.247	2,571	643	23,874
18	low	0.2	SP	0.81	0.247	1,124	281	11,884
BA	---	---	---	---	---	0	0	0
A	low-medium	0.8	---	---	---	---	---	---

IRRIGATION HYDRO-ZONE LEGEND

PLANTS ARE GROUP TO HAVE MATCHING WATER REQUIREMENTS AND MICRO-CLIMATE CHARACTERISTICS

- MEDIUM WATER REQUIREMENT
- LOW WATER REQUIREMENT
- GRAVEL MULCH - NOT INCLUDED IN WATER BUDGET

ETAP: 0.264
 Total ETAP Area: 78,112 sq. ft.
 Total ETAP: 20,627
 Total IRWA: 974,128 gallons per year
 Total ETAP: 0.264 Average ETAP for Regular Landscaping Areas shall be 0.25 for non-irrigated areas and 0.25 for non-irrigated areas.
 TOTALS
 IRWA: 974,128 gallons per year
 ETAP: 0.264
 41.4 Percentage Reduction of Potential Irrigation Water
 Note: Zone 'C' not included in water calculation



Project Number: 19110.0000



LANDSCAPE HYDROZONE PLAN

04-08-2020

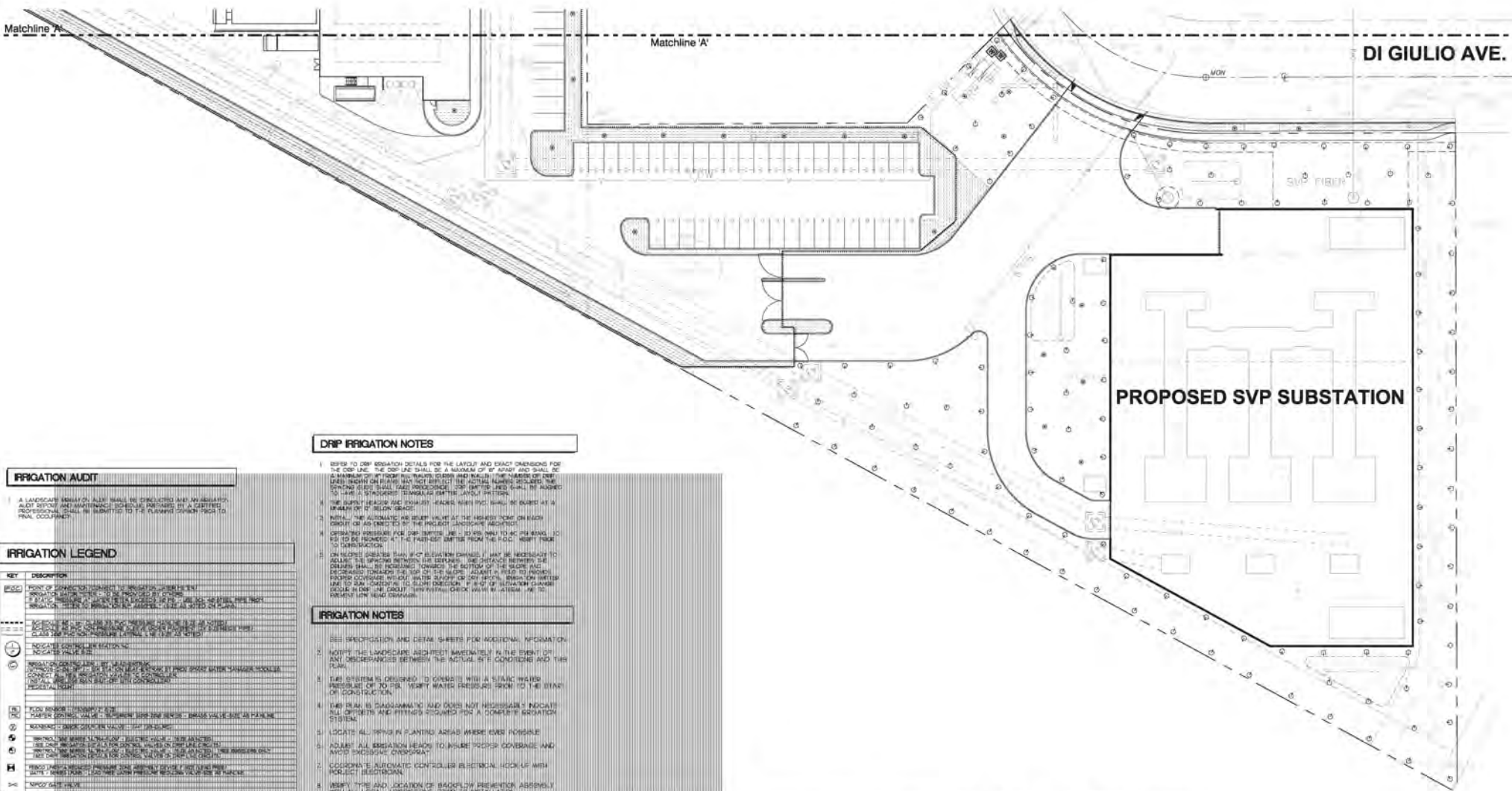


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Matchline A'

Matchline A'

DI GIULIO AVE.



DRIP IRRIGATION NOTES

- REFER TO DRIP IRRIGATION DETAILS FOR THE LAYOUT AND EXACT DIMENSIONS FOR THE DRIP LINE. THE DRIP LINE SHALL BE A MAXIMUM OF 30" SPACING AND SHALL BE 2" MAXIMUM OF 4" DEPTH. THE NUMBER OF DRIP LINES SHALL BE DETERMINED BY THE IRRIGATION CONTRACTOR. THE DRIP LINES SHALL BE INSTALLED AT THE END OF EACH ROW. THE DRIP LINES SHALL BE INSTALLED AT THE END OF EACH ROW.
- THE SUPPLY HEADERS AND MAINS SHALL BE INSTALLED AT A MINIMUM OF 18" BELOW GRADE.
- WITH THE AUTOMATIC AIR RELEASE VALVE AT THE HIGHEST POINT ON EACH CIRCUIT OR AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.
- OPERATING PRESSURE FOR DRIP IRRIGATION LINE IS 30 PSI. WHEN TO BE INSTALLED, IT IS TO BE INSTALLED AT THE HIGHEST POINT FROM THE BACK-SHOOT FROM TO DISTRIBUTION.
- ALL MAINS SHALL BE 1/2" OR 3/4" BORE POLYETHYLENE GLASS REINFORCED POLYESTER (RPE) PIPE. THE SPACING BETWEEN THE DRIP LINES SHALL BE INCREASING TOWARDS THE BOTTOM OF THE SLOPE AND DECREASED TOWARDS THE TOP OF THE SLOPE. ADJUST A HEAD TO PROVIDE EQUAL COVERAGE WITHOUT WATER SURFACE OR DRY SPOTS. DRIP LINES WATER LINE TO RUN DOWNHILL TO SLOPE DIRECTION IF 8" OF SLOPE CHANGE OCCURS IN ONE HUNDRED FEET WITHIN ONE HUNDRED FEET TO PREVENT LOW HEAD CONDITIONS.

IRRIGATION NOTES

- SEE SPECIFICATION AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE ACTUAL SITE CONDITIONS AND THIS PLAN.
- THIS SYSTEM IS DESIGNED TO OPERATE WITH A STATIC WATER PRESSURE OF 30 PSI. VERIFY WATER PRESSURE PRIOR TO THE START OF CONSTRUCTION.
- THIS PLAN IS DIAGNOSTIC AND DOES NOT NECESSARILY INDICATE ALL OFFSETS AND FITTINGS REQUIRED FOR A COMPLETE IRRIGATION SYSTEM.
- LOCATE ALL FITTINGS IN PLANTING AREAS WHERE EVER POSSIBLE.
- ADJUST ALL EMISSION HEADS TO INSURE PROPER COVERAGE AND AVOID EMISSION OVERSPRAY.
- COORDINATE AUTOMATIC CONTROLLER ELECTRICAL HOODS WITH PROJECT ELECTRICAL.
- VERIFY TYPE AND LOCATION OF BACKFLOW PREVENTION ASSEMBLY WITH ALL LOCAL JURISDICTIONS PRIOR TO INSTALLATION.
- INSTALL CHECK VALVES AS REQUIRED TO PREVENT LOW-HEAD CONDITIONS.

IRRIGATION PIPE SIZING CHART

CLASS 200	SCHEDULE 40		CLASS 36		
	CONSTANT PRESSURE PIPING	LATERAL PIPING	CONSTANT PRESSURE PIPING	LATERAL PIPING	
1/2"	7-4 GPM	1-1/2"	31-48 GPM	1-1/2"	31-48 GPM
3/4"	3-9 GPM	2"	31-48 GPM	2"	31-48 GPM
1"	1-4 GPM	2 1/2"	40-65 GPM	2 1/2"	40-65 GPM
1 1/4"	16-18 GPM	3"	58-90 GPM	3"	58-90 GPM
1 1/2"	17-20 GPM				
2"	24-25 GPM				

IRRIGATION NOTES LEGEND

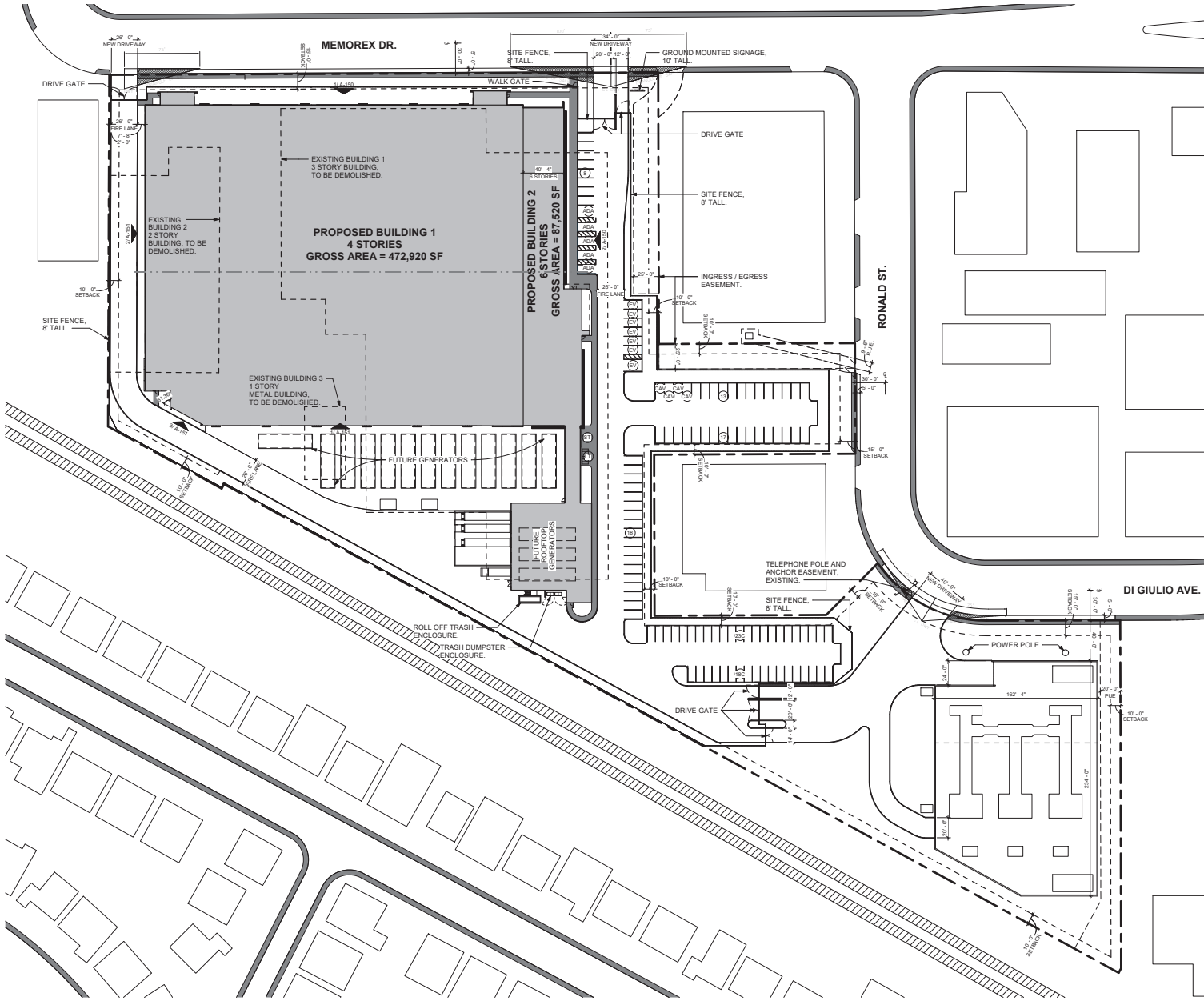
- EXISTING TREE TO REMAIN
- LOCATE EMISSION HEADS AND EMISSION VALVES IN LANDSCAPE AREAS. ALL EMISSION HEADS TO BE LOCATED IN PROTECTED TREE ROOT ZONE OR PLANTING AREAS ONLY.
- HAND TRENCH EMISSION LINES WITHIN EXISTING TREE ROOT ZONE.
- INSTALL EMISSION LATERAL LINE "TULSTIP" OR IRRIGATION MAKERS IN CONCRETE BOX WITH CONCRETE IS.

IRRIGATION AUDIT

A LANDSCAPE IRRIGATION AUDIT SHALL BE CONDUCTED AND AN IRRIGATION AUDIT REPORT AND MAINTENANCE SCHEDULE PROVIDED BY A LICENSED PROFESSIONAL SHALL BE SUBMITTED TO THE PLANNING COMMISSION PRIOR TO FINAL OCCUPANCY.

IRRIGATION LEGEND

KEY	DESCRIPTION
1/2"	1/2" DRIP IRRIGATION LINE
3/4"	3/4" DRIP IRRIGATION LINE
1"	1" DRIP IRRIGATION LINE
1 1/4"	1 1/4" DRIP IRRIGATION LINE
1 1/2"	1 1/2" DRIP IRRIGATION LINE
2"	2" DRIP IRRIGATION LINE
1/2"	1/2" DRIP IRRIGATION LINE
3/4"	3/4" DRIP IRRIGATION LINE
1"	1" DRIP IRRIGATION LINE
1 1/4"	1 1/4" DRIP IRRIGATION LINE
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EXISTING

LOT SIZE - 400,038± SF - 9.18 ACRES
 3 EXISTING BUILDINGS - TO BE DEMOLISHED
 BUILDING 1 - FACTORY - 3 STORIES @ 116,679± SF BUILDING FOOTPRINT
 BUILDING 2 - FACTORY - 2 STORIES @ 22,986± SF BUILDING FOOTPRINT
 BUILDING 3 - STORAGE - 1 STORY @ 2,844± SF BUILDING FOOTPRINT
 LOT COVERAGE - 142,619± SF - 36%

PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES
 2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,920 SF±
 PARPAET - 87° MID SLOPE OF ROOF - 83° 6'
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87° MID SLOPE OF ROOF - 83° 6'

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 5 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,860 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,970 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 * PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 * DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED.

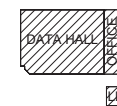
PARKING

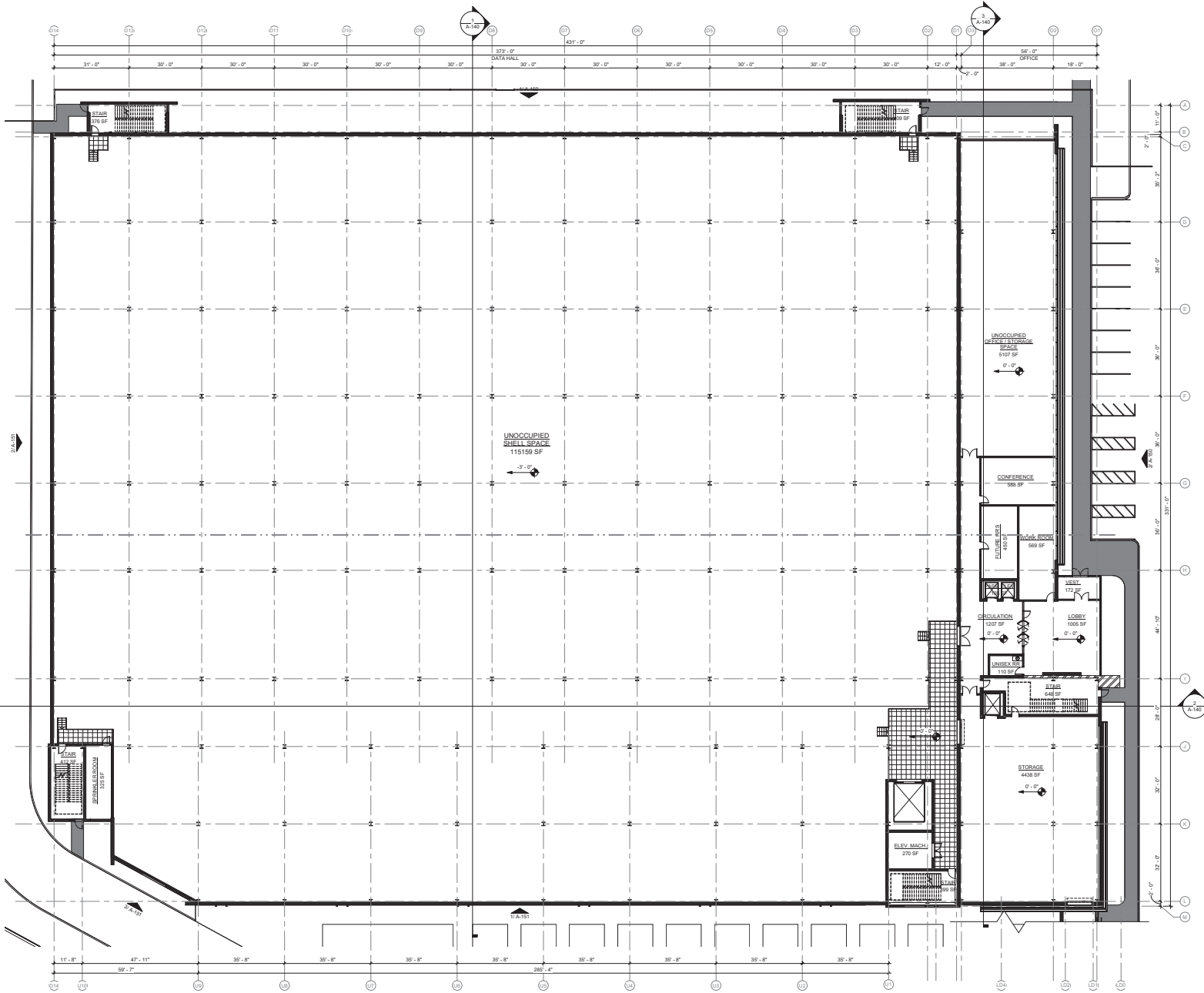
112 REQUIRED SPACES @ 1 PER 5,000 SF
 113 PARKING SPACES PROVIDED
 35 PARKING SPACES
 41 COMPACT PARKING SPACES (C)
 11 CLEAN AIR VEHICLE PARKING SPACES (CAV)
 7 FUTURE EV CHARGING SPACES (EV)
 5 ADA ACCESSIBLE SPACES (ADA)
 BICYCLE PARKING - 5% SHORT & LONG TERM
 6 SHORT TERM SPACES (ST)
 6 LONG TERM SPACES (LT)



SITE PLAN

1" = 40'-0"
 04.09.2020





PROPOSED

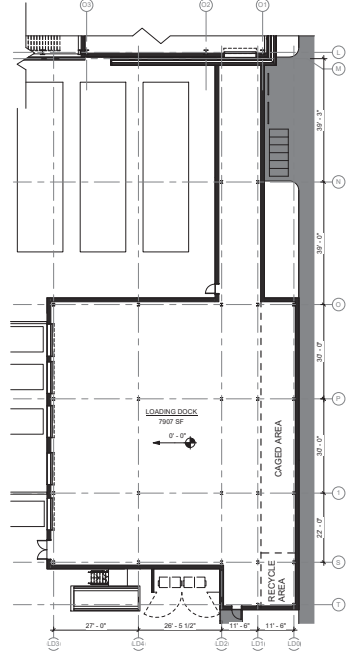
LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 43' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 3,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

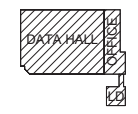


Project Number: 19110.0000

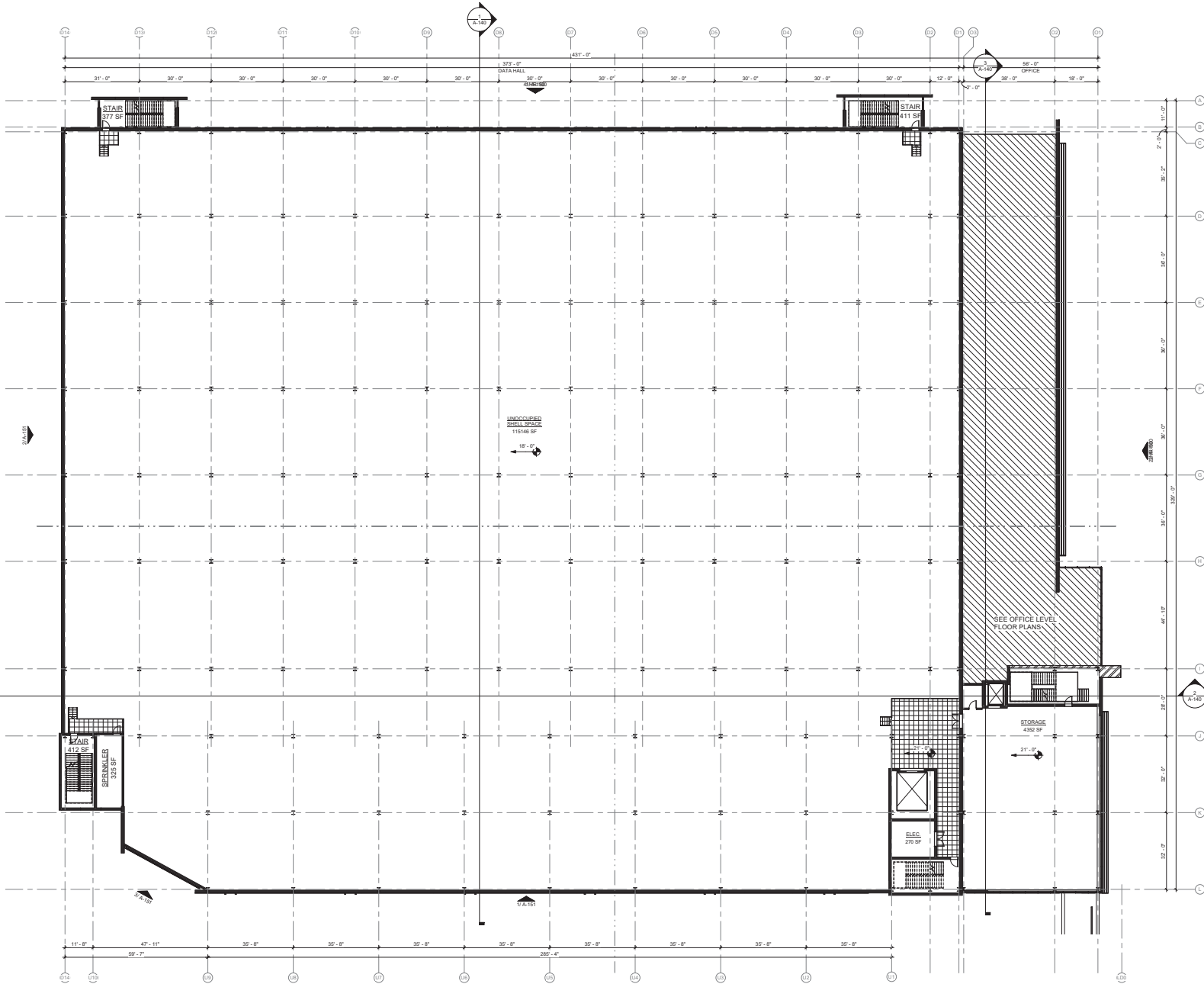


LEVEL 1 FLOOR PLAN

1/16" = 1'-0"
 04.09.2020



A-121



PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA

BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,920 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 43' 6"

BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40

LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF

PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

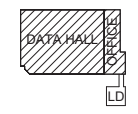
Project Number: 19110.0000



LEVEL 2 FLOOR PLAN

1/16" = 1'-0"

04.09.2020



A-122

PROPOSED

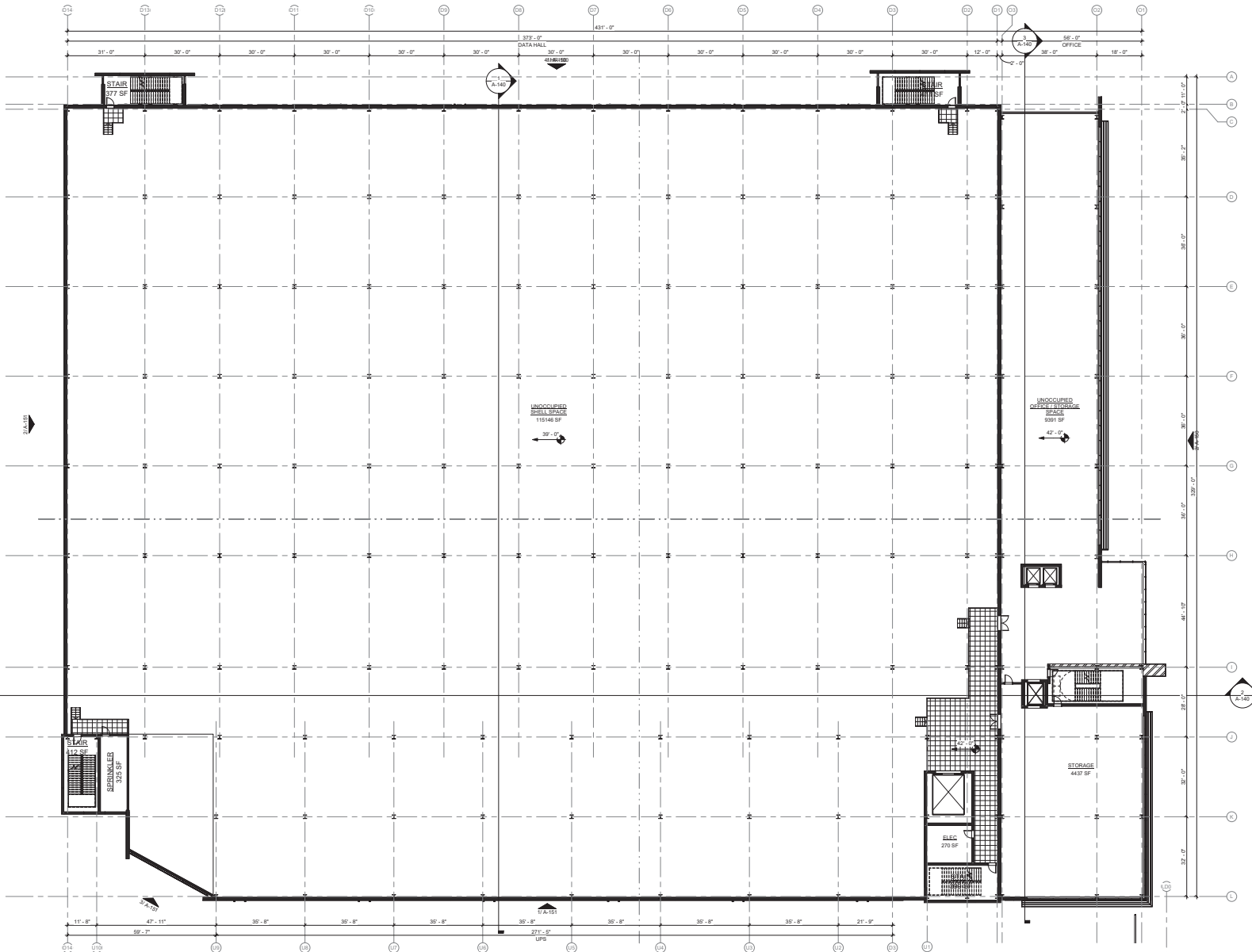
LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 43' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

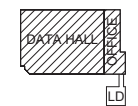


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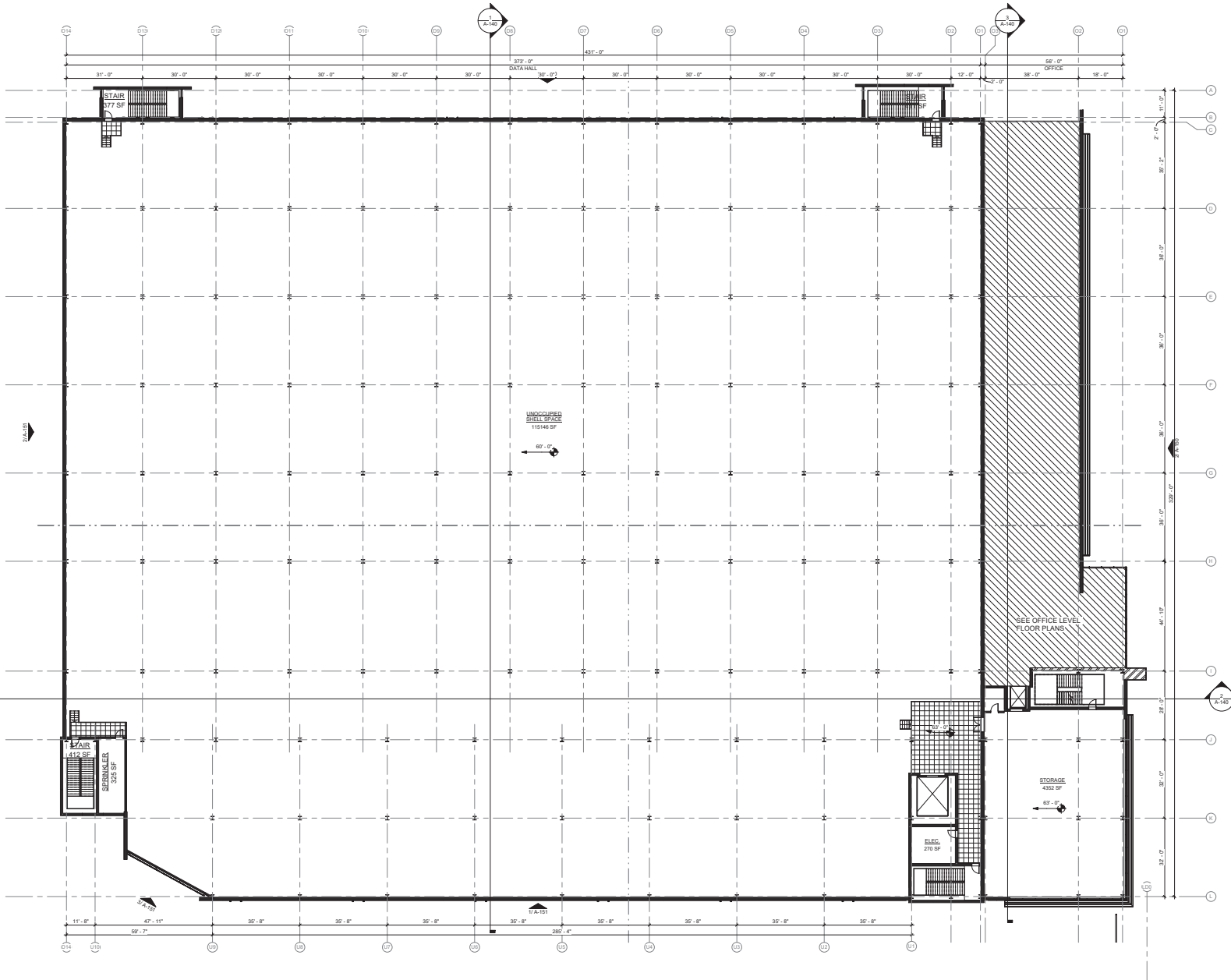


LEVEL 3 FLOOR PLAN

1/16" = 1'-0"
 04.09.2020



A-123



PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA

BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 67' 0" MID SLOPE OF ROOF - 83' 6"

BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40

LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF

PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

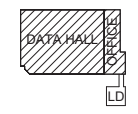
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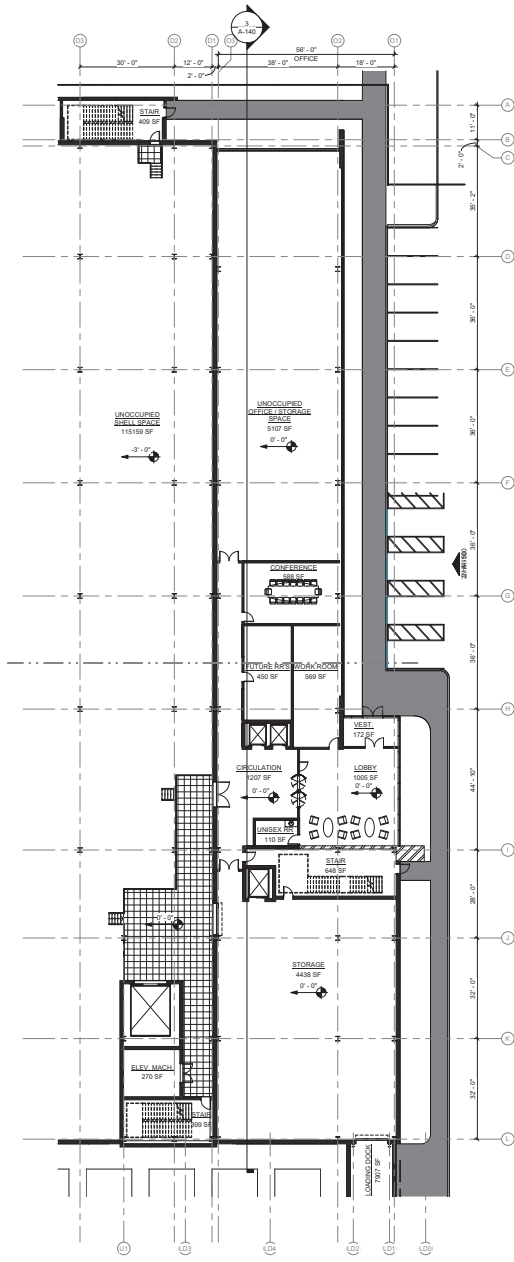
LEVEL 4 FLOOR PLAN

1/16" = 1'-0"

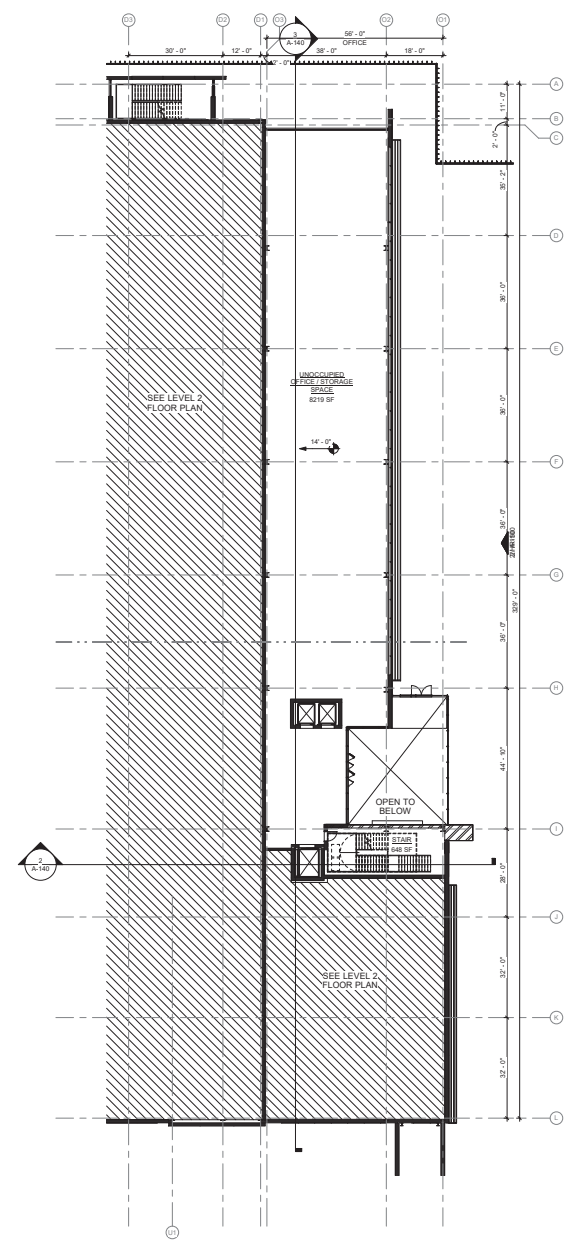
04.09.2020



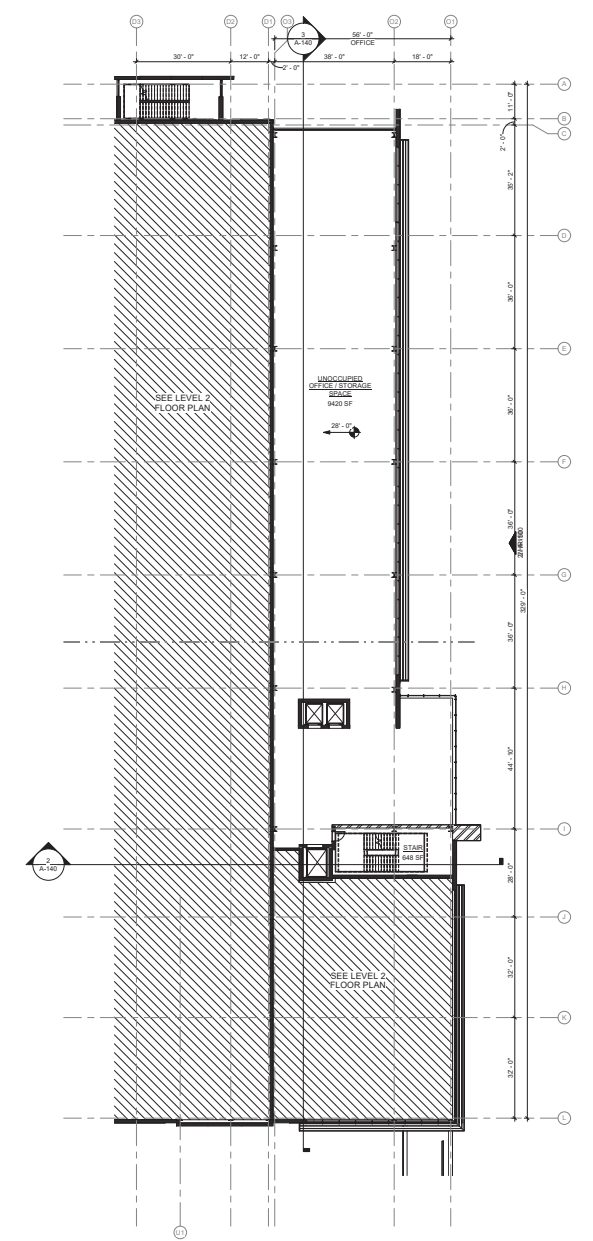
A-124



1 LEVEL 1 FLOOR PLAN - OFFICE
1/16" = 1'-0"



2 LEVEL 1.5 FLOOR PLAN - OFFICE
1/16" = 1'-0"



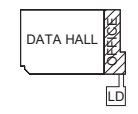
3 LEVEL 2.5 FLOOR PLAN - OFFICE
1/16" = 1'-0"

Project Number: 19110.0000



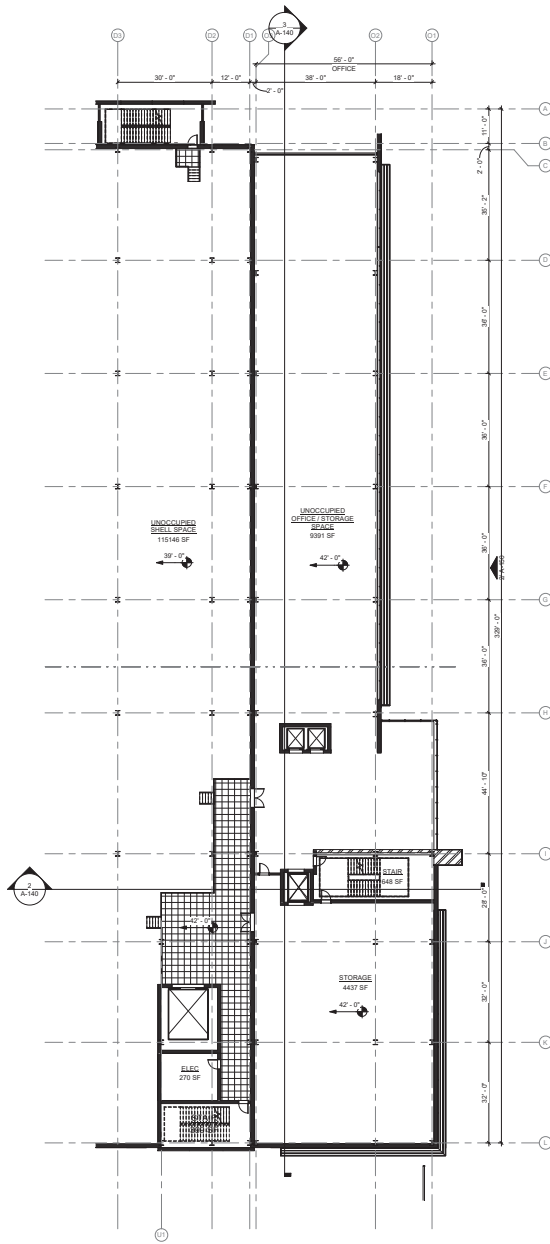
OFFICE LEVEL - FLOOR PLANS

1/16" = 1'-0"
04.09.2020

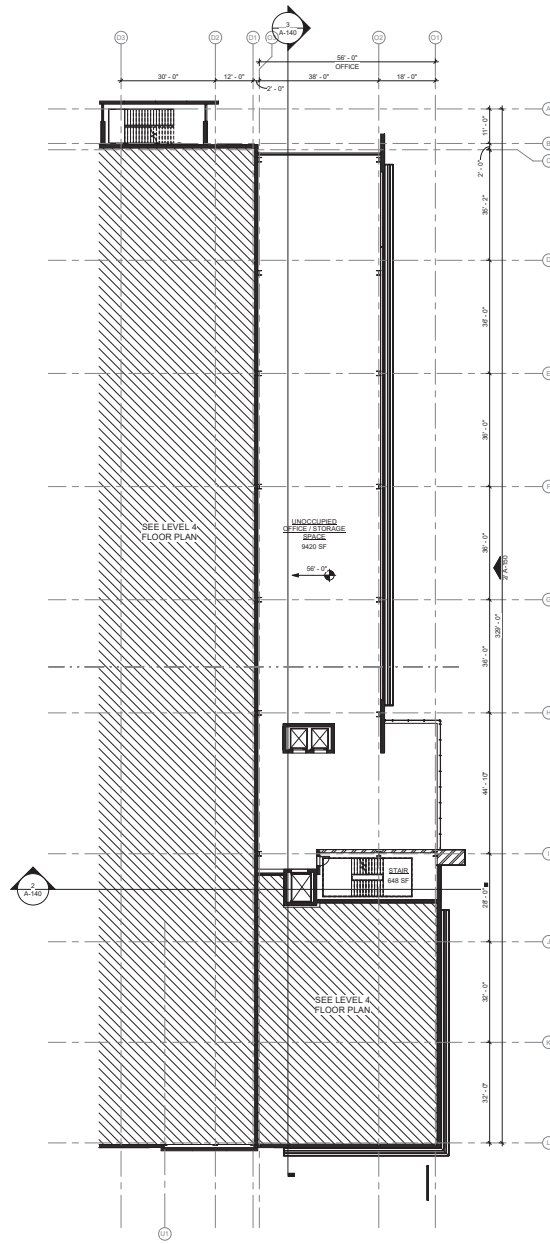


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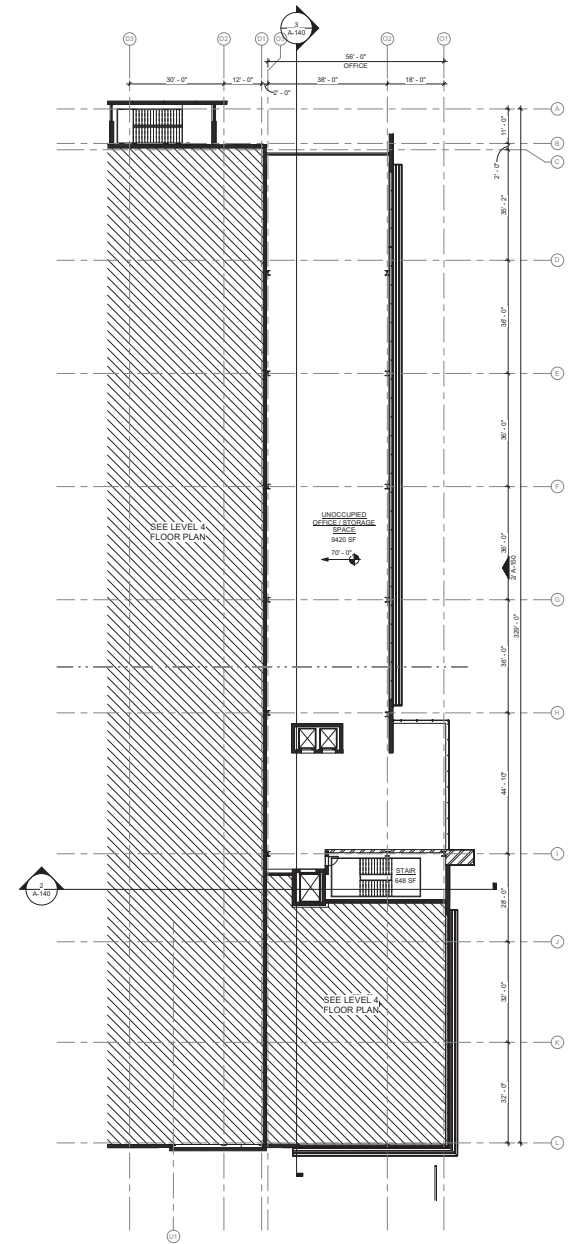
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1 LEVEL 3 FLOOR PLAN - OFFICE
1/16" = 1'-0"



2 LEVEL 3.5 FLOOR PLAN - OFFICE
1/16" = 1'-0"

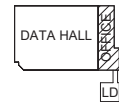


3 LEVEL 4.5 - FLOOR PLAN OFFICE
1/16" = 1'-0"



OFFICE LEVEL - FLOOR PLANS

1/16" = 1'-0"
04.09.2020



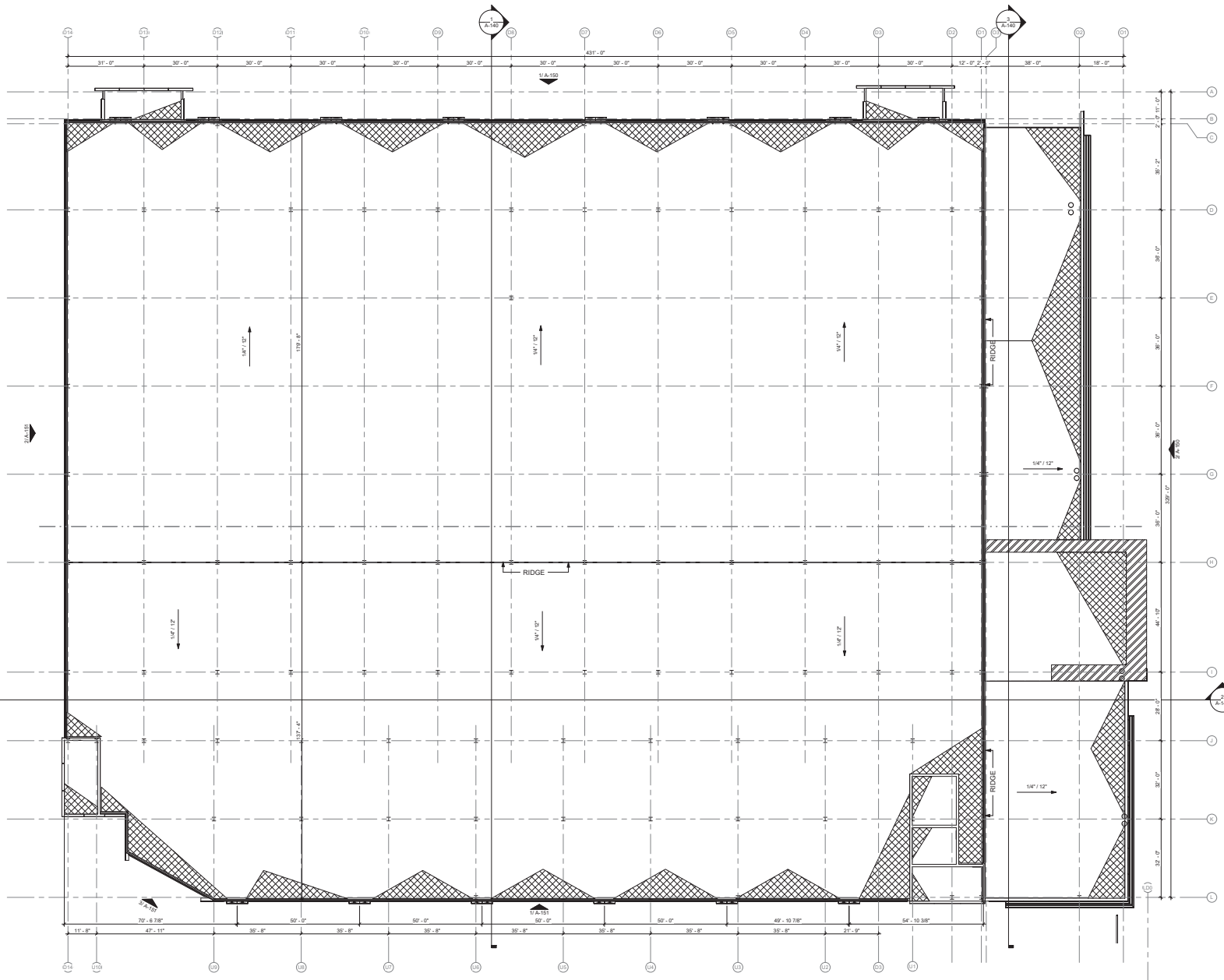
PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES
2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,860 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

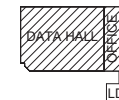


Project Number: 19110.0000

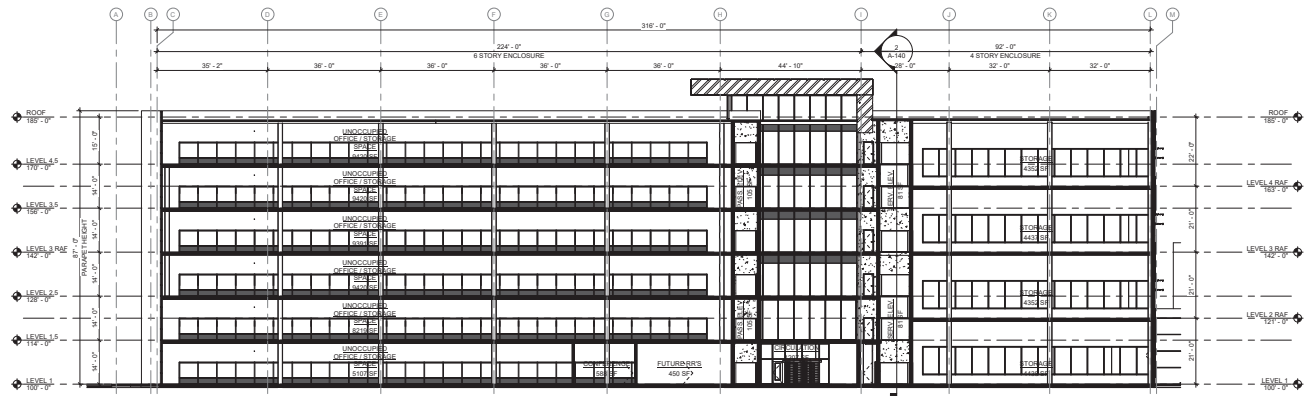


ROOF PLAN

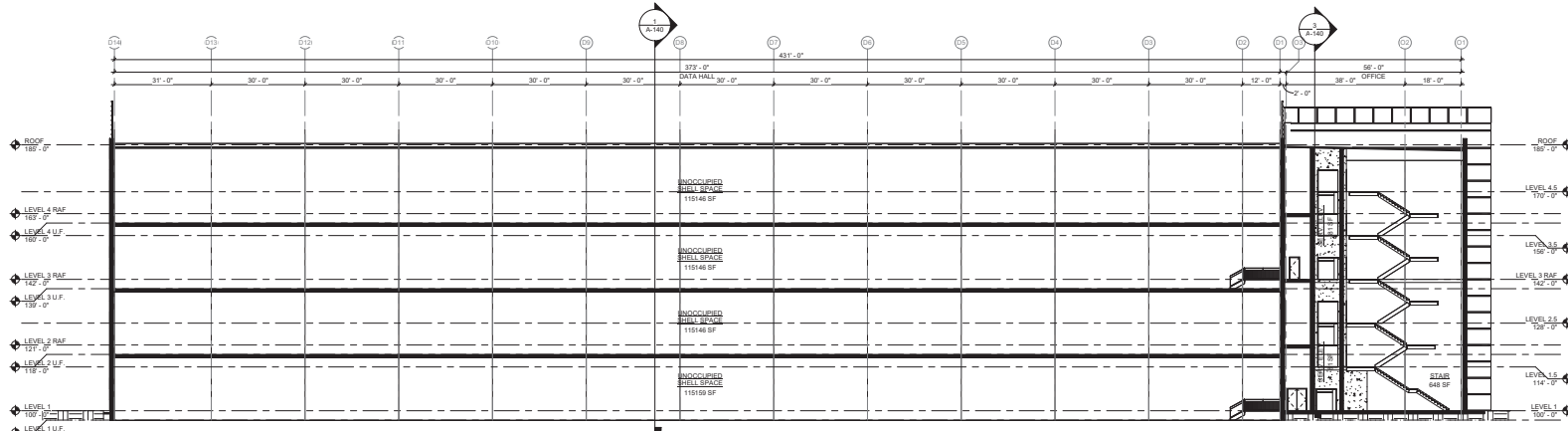
1/16" = 1'-0"
 04.09.2020



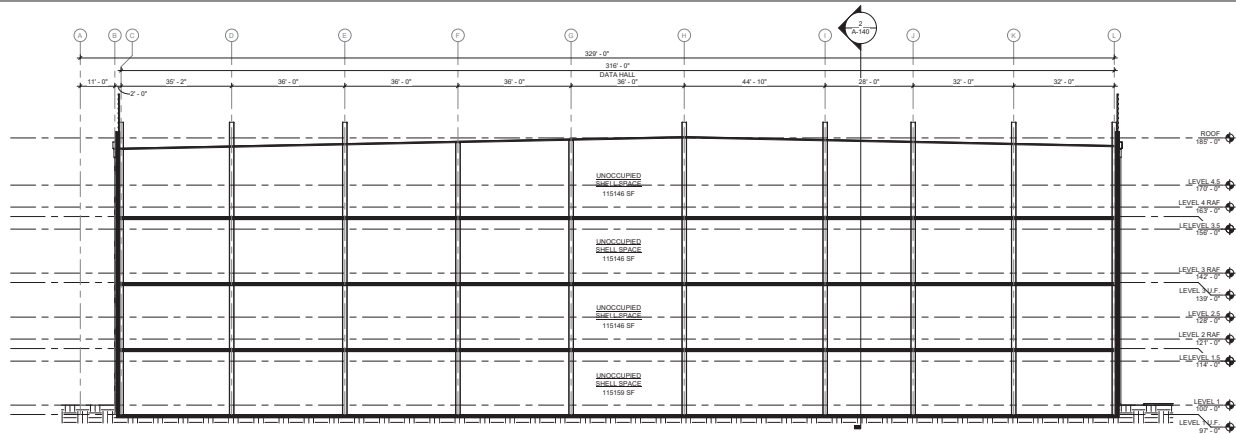
A-130



3 OFFICE SECTION - N-S
1/16" = 1'-0"



2 BUILDING SECTION E-W
1/16" = 1'-0"



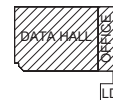
1 DATA HALL SECTION N-S
N.T.S.

Project Number: 19110.0000

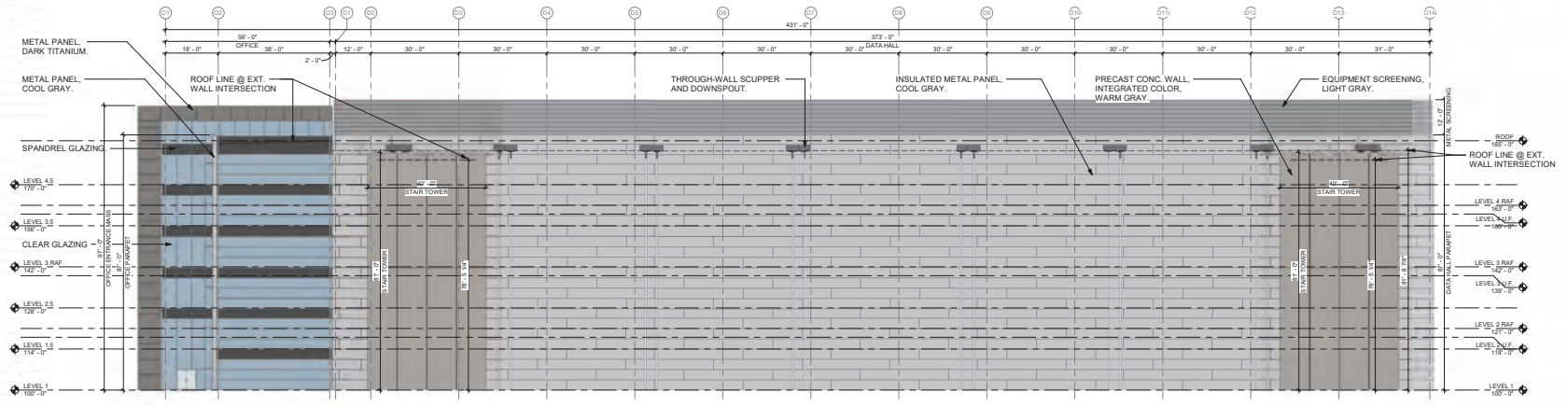


BUILDING SECTION

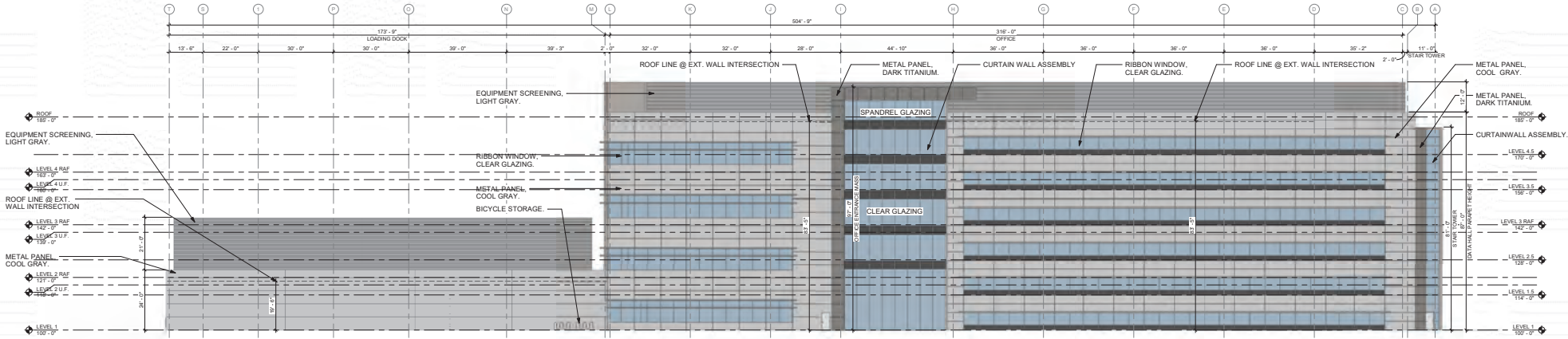
1/16" = 1'-0"
04.09.2020



A-140



1 NORTH
1/16" = 1'-0"



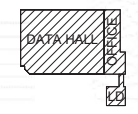
2 EAST
1/16" = 1'-0"

Project Number: 19110.0000

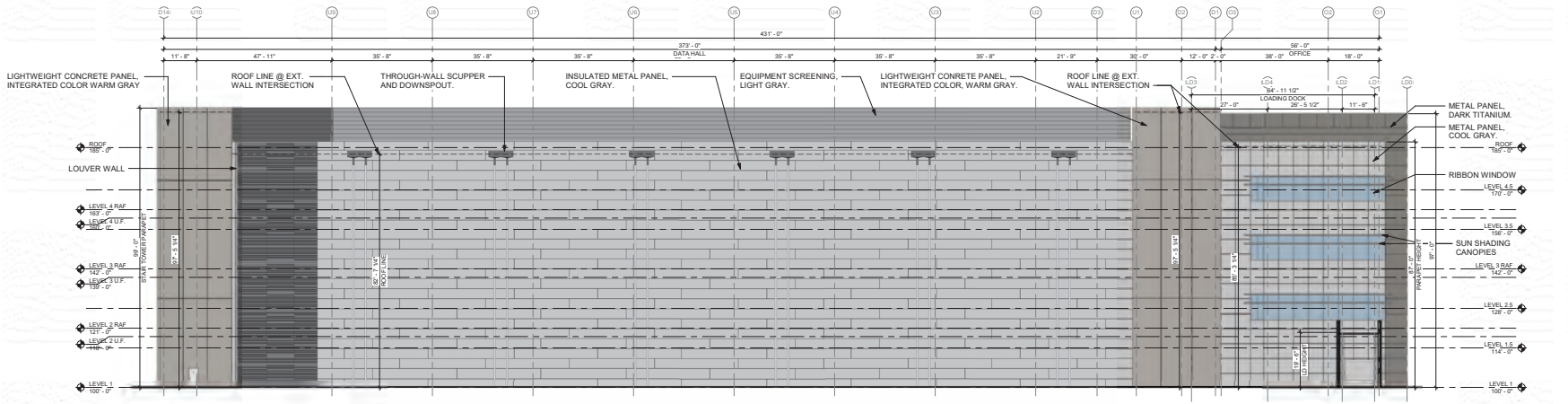


ELEVATIONS

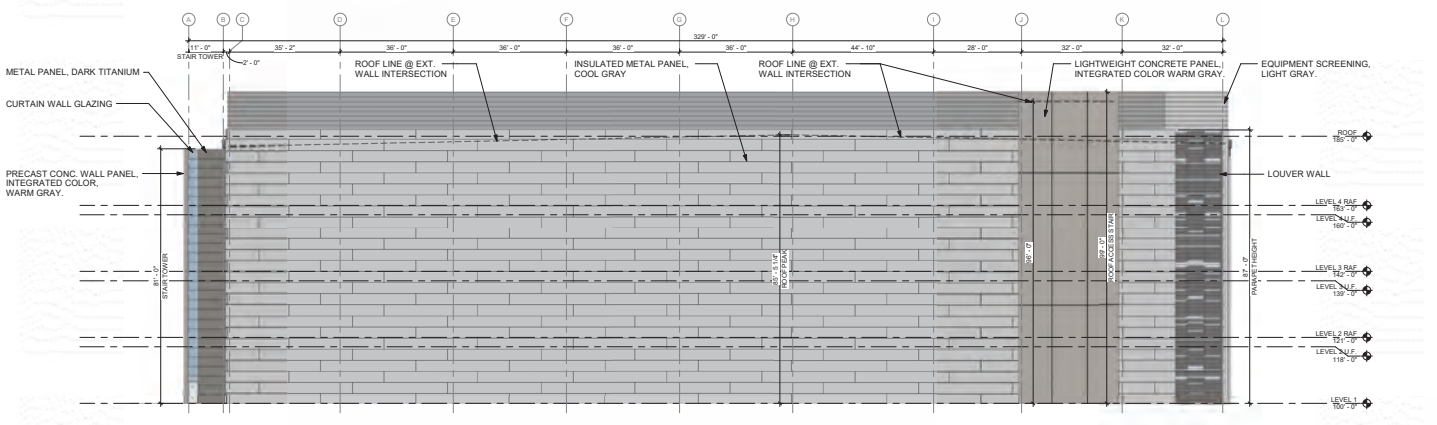
1/16" = 1'-0"
04.09.2020



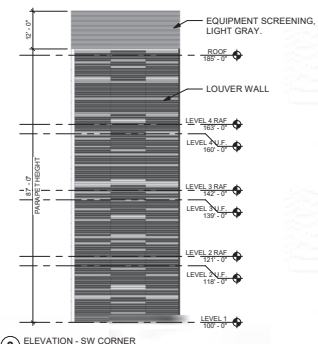
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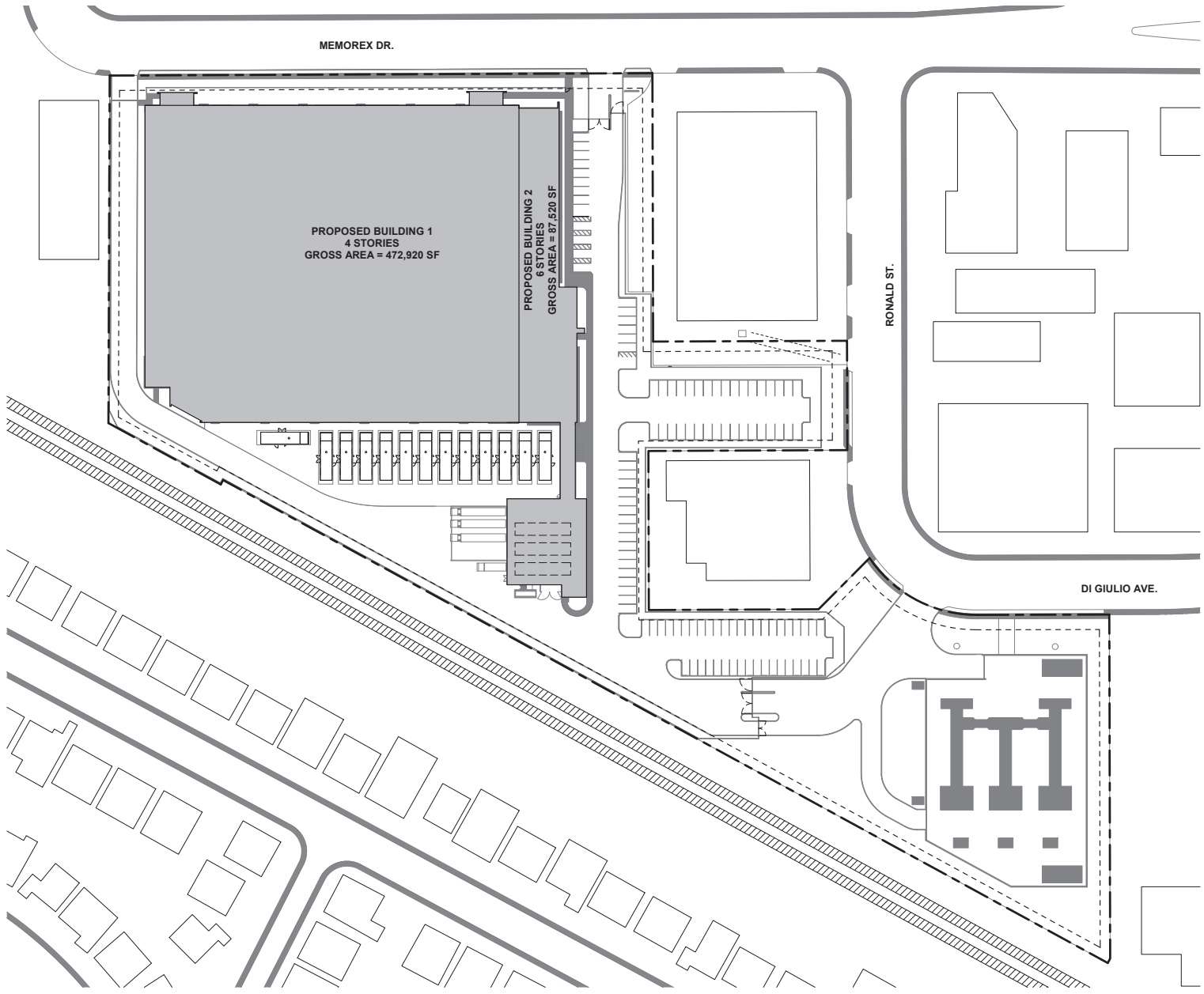
1 SOUTH
1/16" = 1'-0"



2 WEST
1/16" = 1'-0"



3 ELEVATION - SW CORNER
1/16" = 1'-0"



EXISTING

LOT SIZE - 400,038± SF - 9.18 ACRES
 3 EXISTING BUILDINGS - TO BE DEMOLISHED
 BUILDING 1 - FACTORY - 3 STORIES @ 116,679± SF BUILDING FOOTPRINT
 BUILDING 2 - FACTORY - 2 STORIES @ 22,996± SF BUILDING FOOTPRINT
 BUILDING 3 - STORAGE - 1 STORY @ 2,944± SF BUILDING FOOTPRINT
 LOT COVERAGE - 142,619± SF - 36%

PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES
 2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,920 SF±
 PARAPET - 87' 0" MID SLOPE OF ROOF - 83' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,565± SF GROSS - 87,520 SF±
 PARAPET - 97' MID SLOPE OF ROOF - 83' 6"
 FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%
 GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 16 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,860 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,970 SF
 *PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDES FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

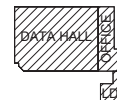
PARKING

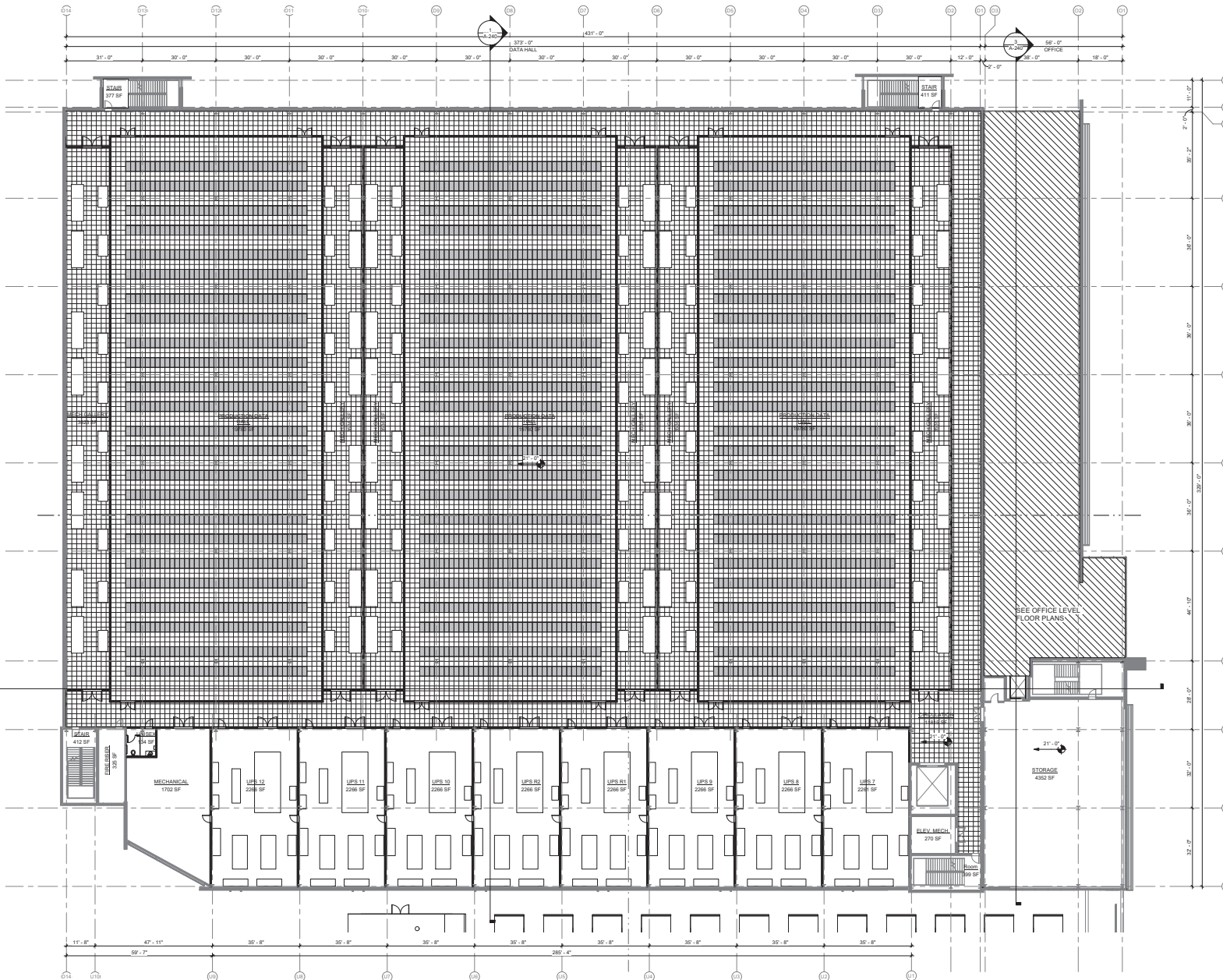
112 REQUIRED SPACES @ 1 PER 3,600 SF
 113 PARKING SPACES PROVIDED
 58 PARKING SPACES
 41 COMPACT PARKING SPACES (C)
 11 CLEAN AIR VEHICLE PARKING SPACES (CAV)
 7 FUTURE EV CHARGING SPACES (EV)
 5 ADA ACCESSIBLE SPACES (ADA)
 BICYCLE PARKING - 5% SHORT & LONG TERM
 6 SHORT TERM SPACES (ST)
 6 LONG TERM SPACES (LT)



SITE PLAN - MP

1" = 40'-0"
 04.09.2020





PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA

BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF

PROD. DATA HALL	- 6 @ 19,780 SF = 118,680 SF
DEV. DATA HALL	- 6 @ 19,780 SF = 118,680 SF
MECH GALLERY	- 24 @ 3,536 SF = 84,864 SF
UPS	- 30 @ 2,275 SF = 68,250 SF
OPEN OFFICE	- 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
MISC.	- 118,370 SF

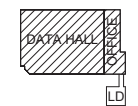
* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

Project Number: 19110.0000

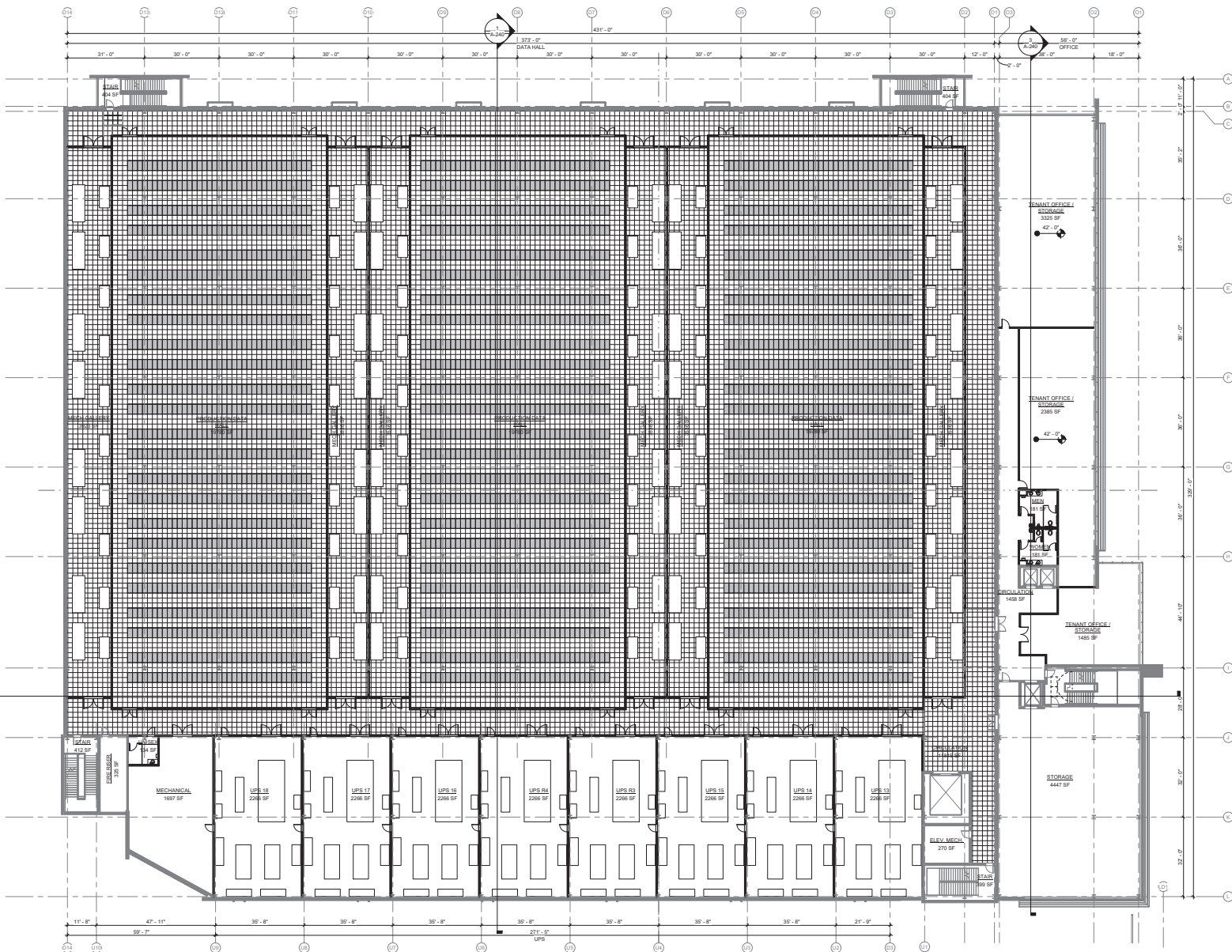


LEVEL 2 FLOOR PLAN - MP

1/16" = 1'-0"
 04.09.2020



A-222



PROPOSED

LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,920 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 43' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 43' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,370 SF

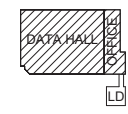
* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED

Project Number: 19110.0000



LEVEL 3 FLOOR PLAN - MP

1/16" = 1'-0"
 04.09.2020



A-223

PROPOSED

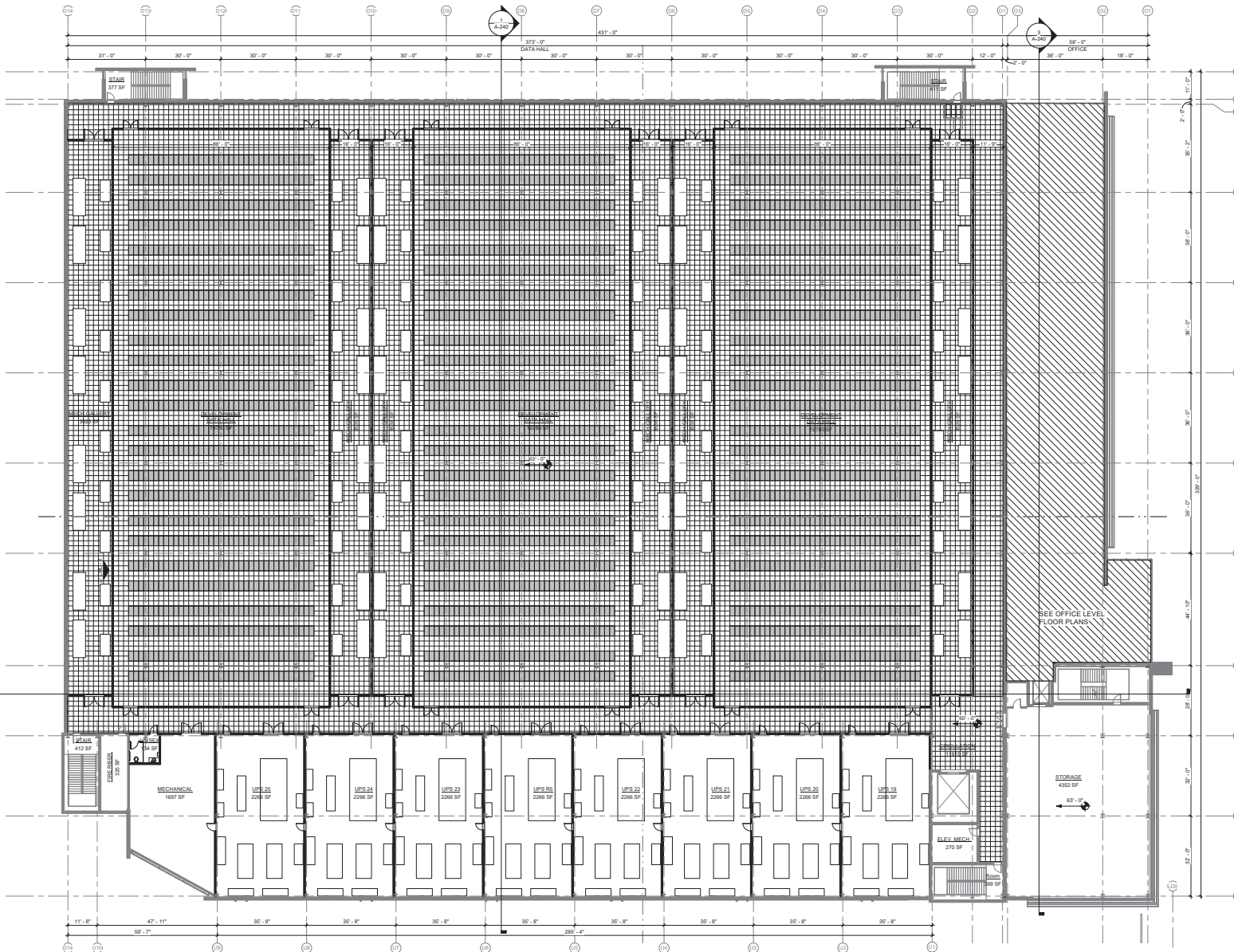
LOT SIZE - 400,038± SF - 9.18 ACRES

2 PROPOSED BUILDINGS - TYPE IIA
 BUILDING 1 - STORAGE II - 4 STORIES @ 118,230± SF GROSS - 472,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"
 BUILDING 2 - STORAGE II - 6 STORIES @ 14,585± SF GROSS - 87,520 SF±
 PARPAET - 87' 0" MID SLOPE OF ROOF - 83' 6"

FAR - 1.40
 LOT COVERAGE - 143,300± SF - 36%
 OUTDOOR EQUIP STORAGE - 22,300± SF - 6%

GROSS BUILDING - 560,440± SF
 PROD. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 DEV. DATA HALL - 6 @ 19,780 SF = 118,680 SF
 MECH GALLERY - 24 @ 3,536 SF = 84,864 SF
 UPS - 30 @ 2,275 SF = 68,250 SF
 OPEN OFFICE - 5,100 SF + 8,220 SF + 4 @ 9420 SF = 51,000 SF
 MISC. - 118,370 SF

* PRODUCTION AND DEVELOPMENT DATA HALLS ARE IDENTIFIABLE BY THEIR BACKUP POWER GENERATION
 - PRODUCTION DATA HALL - BACKUP POWER GENERATION PROVIDED FOR 100% OF LOAD
 - DEVELOPMENT DATA HALL - NO BACKUP POWER GENERATION PROVIDED



SEE OFFICE LEVEL FLOOR PLANS

STORAGE
4362 SF

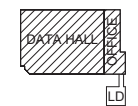
ELEV. MECH.
270 SF

Project Number: 19110.0000

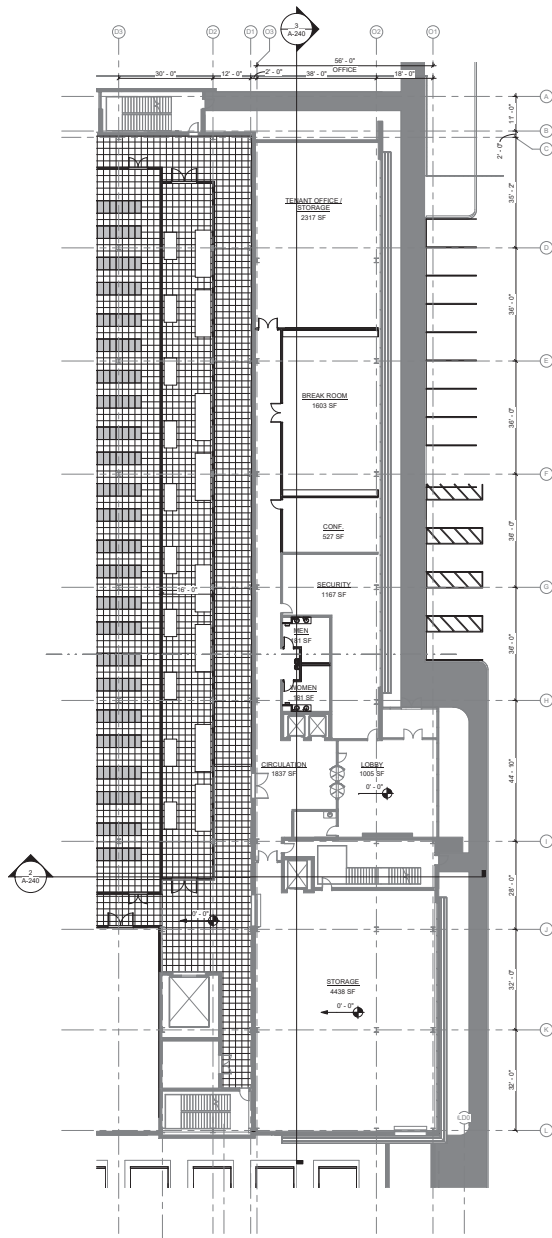


LEVEL 4 FLOOR PLAN - MP

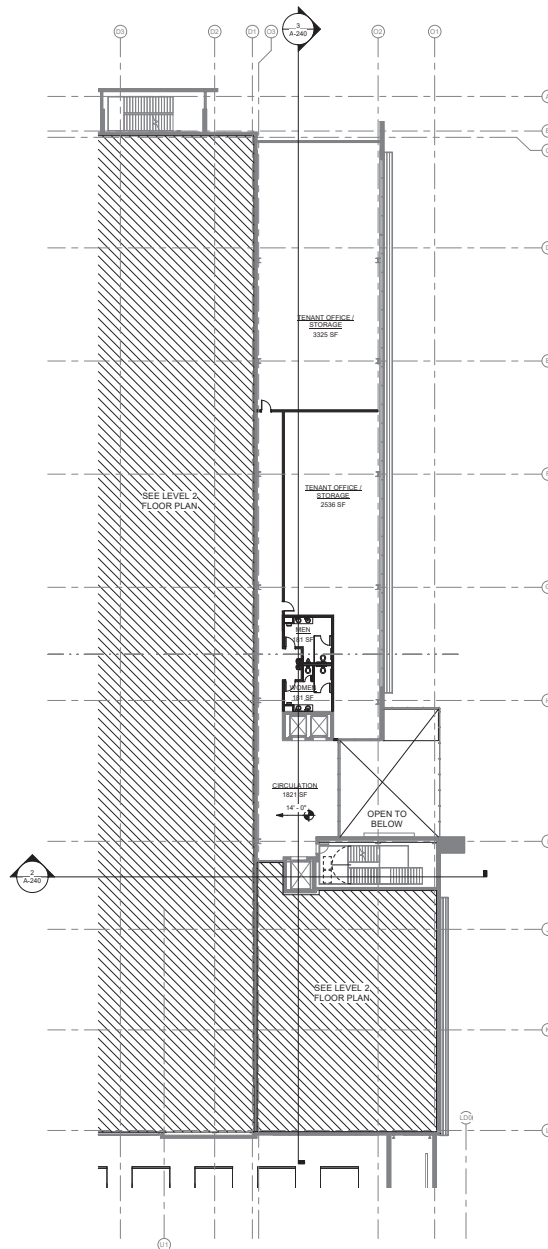
1/16" = 1'-0"
04.09.2020



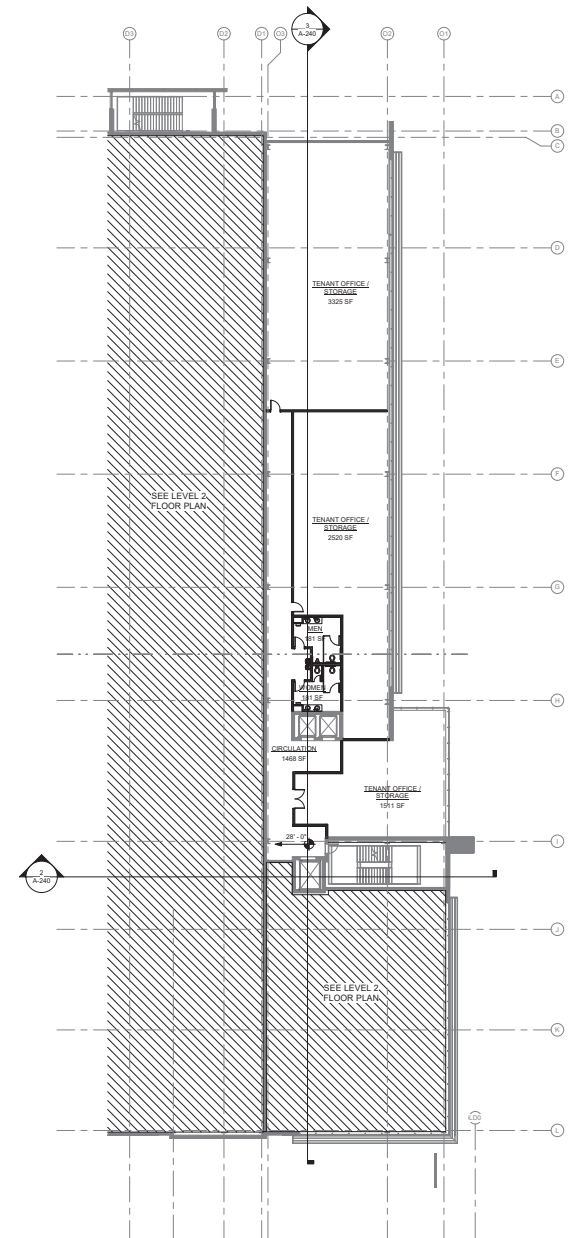
A-224



1 LEVEL 1 FLOOR PLAN - OFFICE - MP
1/16" = 1'-0"



2 LEVEL 1.5 FLOOR PLAN - OFFICE - MP
1/16" = 1'-0"



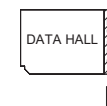
3 LEVEL 2.5 FLOOR PLAN - OFFICE - MP
1/16" = 1'-0"

Project Number: 19110.0000



OFFICE LEVEL - FLOOR PLANS - MP

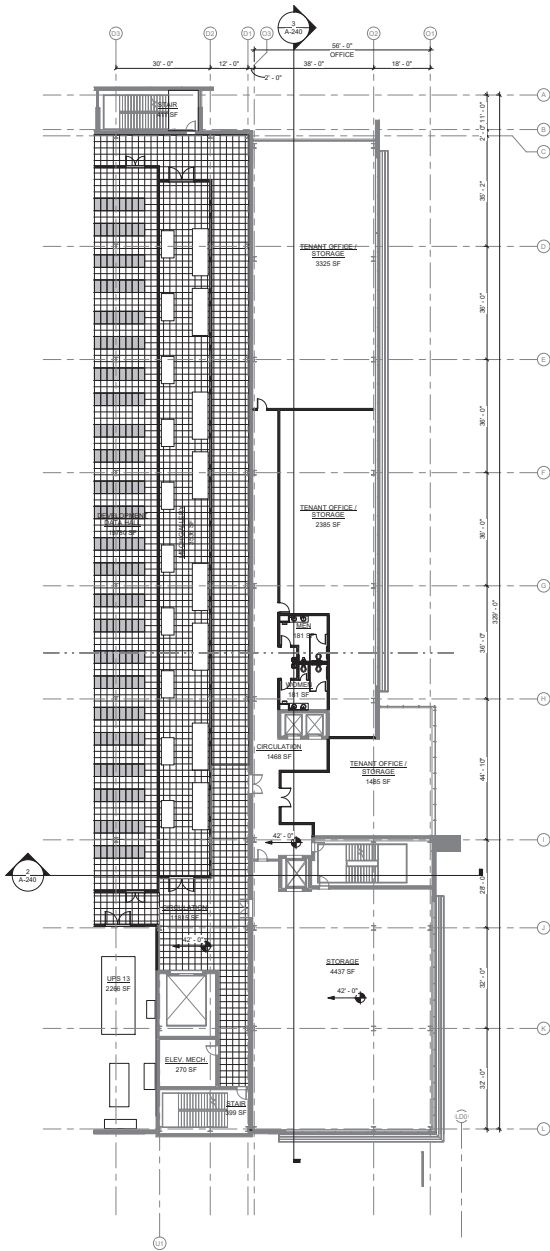
1/16" = 1'-0"
04.09.2020



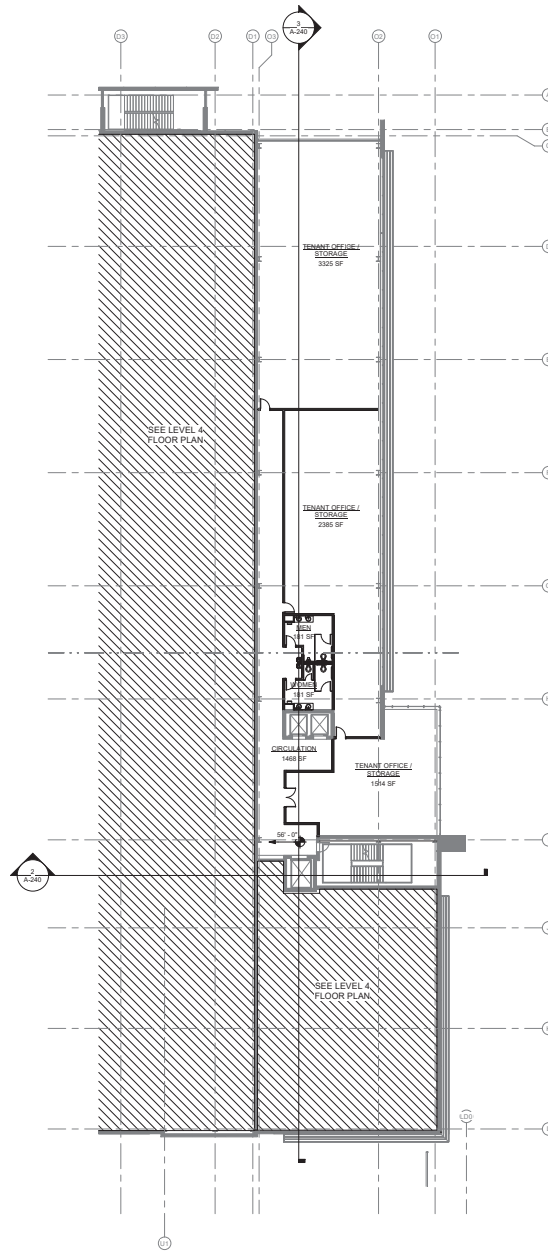
A-225



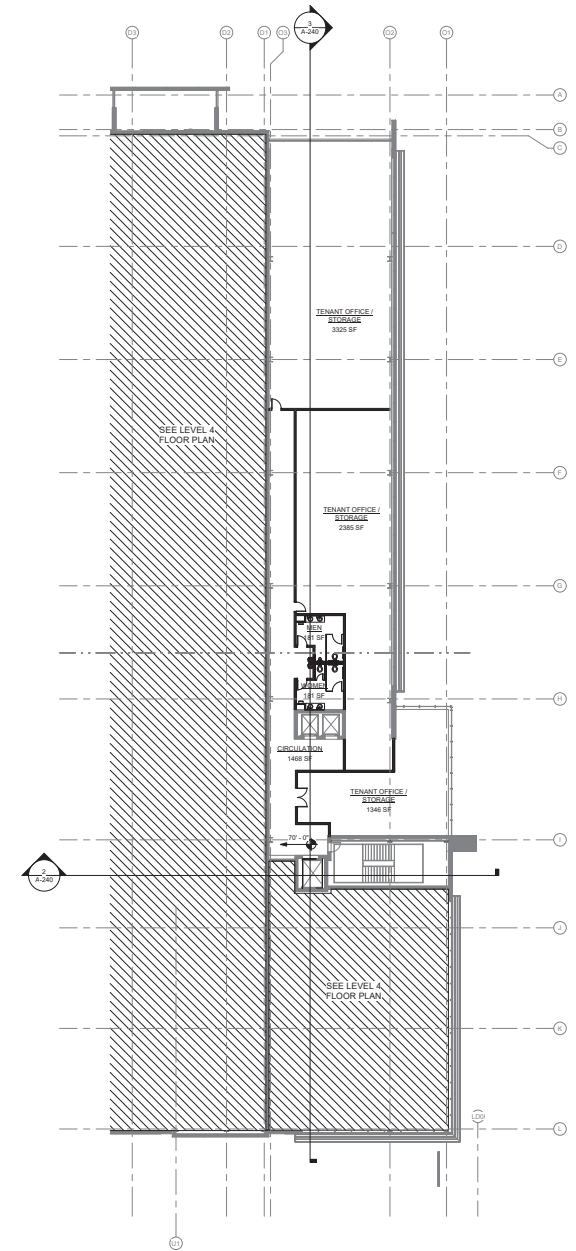
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1 LEVEL 3 FLOOR PLAN - OFFICE - MP
1/16" = 1'-0"



2 LEVEL 3.5 FLOOR PLAN - OFFICE - MP
1/16" = 1'-0"

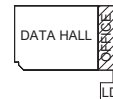


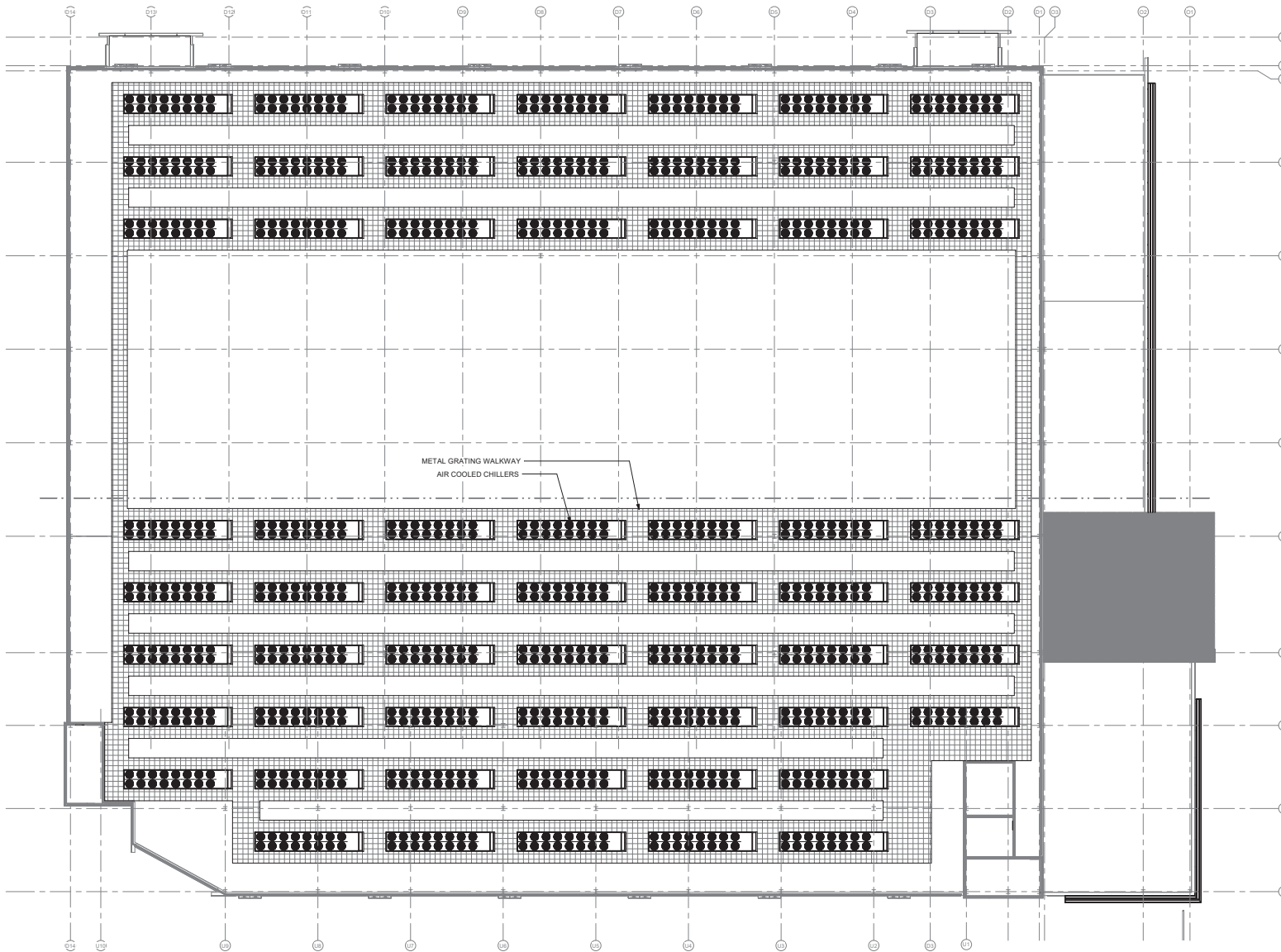
3 LEVEL 4.5 FLOOR PLAN OFFICE - MP
1/16" = 1'-0"



OFFICE LEVEL - FLOOR PLANS - MP

1/16" = 1'-0"
04.09.2020





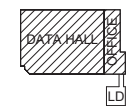
METAL GRATING WALKWAY
AIR COOLED CHILLERS

Project Number: 19110.0000



ROOFTOP EQUIPMENT PLAN - MP

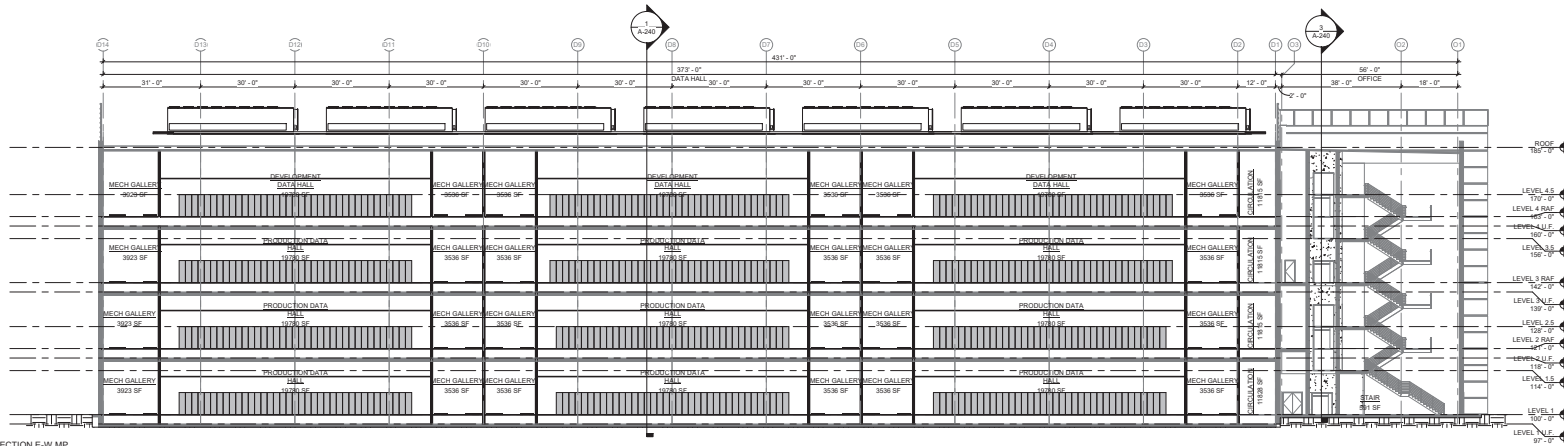
1/16" = 1'-0"
04.09.2020



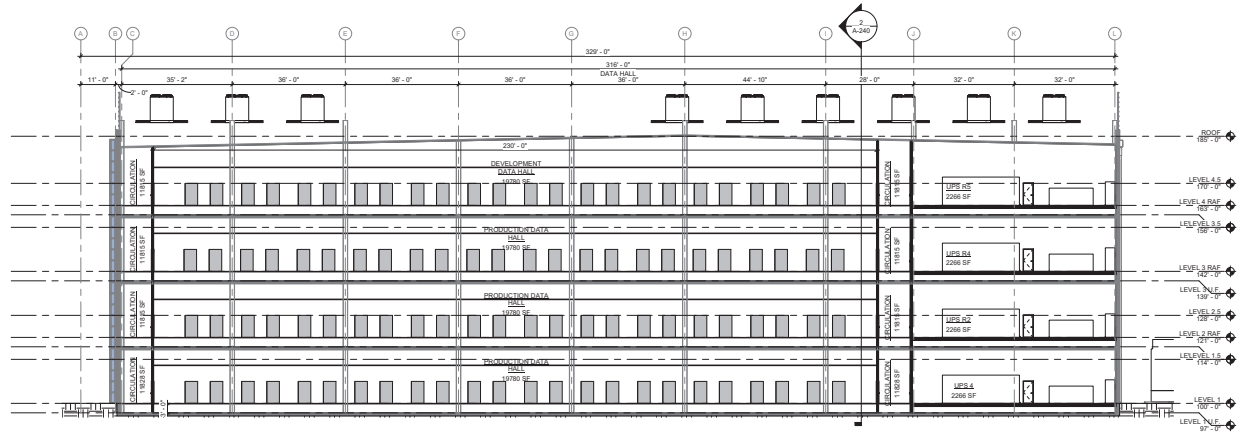
A-230



3 OFFICE SECTION - N-S MP
1/16" = 1'-0"



2 BUILDING SECTION E-W MP
1/16" = 1'-0"

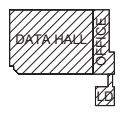


1 BUILDING SECTION N-S MP
1/16" = 1'-0"

Project Number: 19110.0000



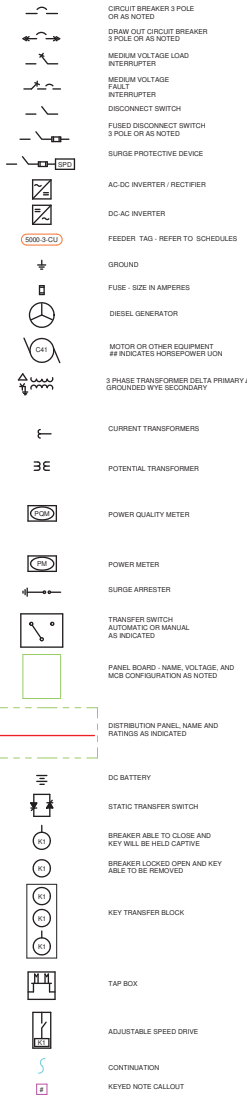
BUILDING SECTION - MP
1/16" = 1'-0"
04.09.2020



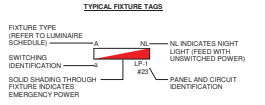
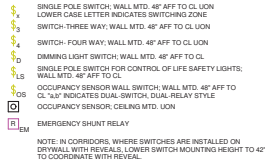
A-240

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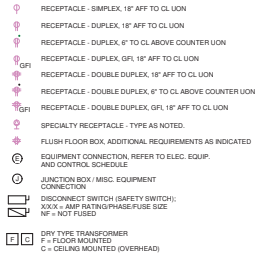
ONE LINE



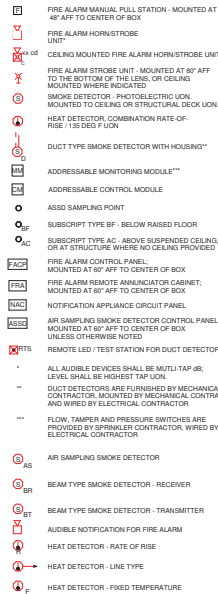
LIGHTING



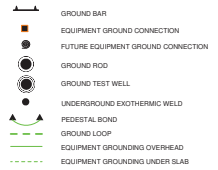
POWER



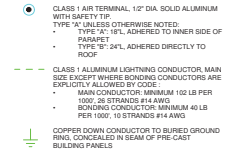
FIRE ALARM



GROUNDING



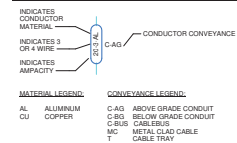
LIGHTNING PROTECTION



ABBREVIATIONS

A	AMPERES	KLD	THOUSAND
AL	ALTERNATE	KAL	THOUSAND CIRCULAR MILS
AB	ABOVE	KAF	THOUSAND AMPERES
AC	ALTERNATING CURRENT	KV	KILOVOLTS
AF	AMPERE FRAME	KVARS	KILOVAR
AFB	ABOVE FINISHED FLOOR	KW	KILOWATTS
AFG	ABOVE FINISHED GRADE	LAD	LINEAR HEAT DETECTOR
AFH	AIR HANDLING UNIT	LHD	LONG TIME INSTANTANEOUS
AL	ALTERNATE	LIS	LISTING
ALC	AIR CONDITIONING CAPACITY	LTS	LISTING (LTS)
ALU	AIR UNIT	MA	MAINTENANCE
AM	AMPERES	MAN	MANUAL
ASIS	AIR SAMPLING SMOKE DETECTION	MAN	MANUAL
ASTS	AUTOMATIC STATIC TRANSFER SWITCH	MC	METAL CLAD CABLE
AUTO	AUTOMATIC	MCC	MOTOR CONTROL CENTER
AUX	AUXILIARY	MCS	MILDED CASE SWITCH
AWG	AMERICAN WIRE GAUGE	MCP	MILDED CASE CIRCUIT BREAKER
BEF	BELOW FINISHED FLOOR	MDF	MAIN DISTRIBUTION PANEL
BFG	BELOW FINISHED GRADE	MFR	MANUFACTURER
BFG	BELOW FINISHED GRADE AND BELOW RAISED FLOOR	MFL	MAIN FLOOR ONLY
BFT	BELOW RAISED FLOOR	MO	MANUALLY OPERATED
BR	BREAKER	MTD	MOUNTED
BRK	BREAKER	MTR	MOTOR
BLDG	BUILDING	MV	MEDIUM VOLTAGE
C	CONDUIT	MW	MEGA WATTS
CAB	CABINET	N	NORTH
CB	CIRCUIT BREAKER	NAC	NORMALLY CLOSED
C-BUS	CABLE BUS	NC	NORMALLY CLOSED
CL	CENTER LINE	NE	NOT IN CONTRACT
CLG	COMPANY	NL	NIGHT LIGHT
CO	CONCRETE	NO	NORMALLY OPEN
COMM	COMMUNICATIONS	NTF	NEUTRAL TIME PROTOCOL
CONN	CONNECTION	OCPO	OVERCURRENT PROTECTIVE DEVICE
COORD	COORDINATE	OH	OVERHEAD DOOR
CPAH	COMPUTER ROOM AIR HANDLER	OL	OVERLOAD
CU	CURRENT TRANSFORMER	OS	OCCUPANCY SENSOR
CU	COPPER	P	POLE(S)
DB	DELTA CONNECTION	PC	PHOTOCELL
DC	DIRECT CURRENT	PSU	POWER DISTRIBUTION UNIT
DET	DETECT	PR	POWER FACTOR
DIC	DIMMER	PFR	PREFERRED
DISC	DISCONNECT	PL	POWER LIGHT
DI	DIVISION	PM	POWER METER
DP	DISTRIBUTION PANEL	PQM	POWER QUALITY METER
DWG	DRAWING	PM	POWER METER
EA	EACH	PREFP	PREPARED
EG	EQUIPMENT GROUND	PS	POWER
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
ELU	ELECTRICAL	PAR	PARALLEL
EMER	EMERGENCY LIGHT UNIT	PH	PHASE
EMR	EMERGENCY ELECTRICAL TUBING	QTY	QUANTITY
EMH	ELECTRICAL MANHOLE	RECT	RECTIFIER
E.O.	ELECTRICALLY OPERATED	REFR	REFRIGERATOR
EPMS	ELECTRICAL POWER MONITORING SYSTEM	RGS	RIGID GALVANIZED STEEL CONDUIT
EPN	EMERGENCY POWER OFF	RHW	RIGID INSULATED WIRE
EQU	EQUIPMENT	RMC	RIGID METALLIC CONDUIT
EWC	ELECTRIC WATER COOLER	RNF	REMOTE POWER PANEL
EW	ELECTRIC WALL HEATER	SCH	SCHEDULE
EXIST	EXISTING	SEC	SECONDARY
EXT	EXTENSION	SEL	SELF-SEED LUGS
F	FUSED	SRU	SLIDING KEY RELEASE UNIT
FA	FIRE ALARM	SHT	SHEET
FACP	FIRE ALARM CONTROL PANEL	SHT	SHEET
FCU	FAN COIL UNIT	SPT	SPACE TRIP
FOT	FLOOR	SFR	SPARE
FLA	FULL LOAD AMPERES	SS	SQUARE
FLO	FLOOR	SSP	SUSPENDED PAIR
FLEX	FLEXIBLE	SW	SWITCH
FLUR	FLUORESCENT	SWED	SWITCHBOARD
FO	FIBER OPTIC	T	TRAY
FTR	FURNISH	TYP	TYPICAL
FURN	FURNISH	U	ULTRASONIC
G	GROUND	UC	UNDER COUNTER
GALV	GALVANIZED	UDC	UNDERGROUND
GEN	GENERATOR	UGP	UNDERGROUND COMMUNICATION
GEP	GROUND FAULT EQUIPMENT PROTECTION (GMA)	UGP	UNDERGROUND POWER
GFC	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
GFP	GROUND FAULT PROTECTION	UN	UNLESS OTHERWISE NOTED
GFS	GLOBAL POSITIONING SYSTEM	UNL	UNLIMITED POWER SUPPLY
HD	HEAVY DUTY	UTL	UTILITY
HET	HAND HOLE	UTP	UNSHIELDED TWISTED PAIR
HI	HIGH INTENSITY DISCHARGE	V	VOLT(S)
HO	HIGH OUTPUT	VA	VOLT-AMPERES
HSA	HAND OFF AUTOMATIC	VAR	VARIABLE
HP	HORSEPOWER	VAV	VARIABLE AIR VOLUME
HPP	HIGH POWER FLOOR	VAVR	VARIABLE AIR VOLUME WITH REGULATED LEAD ACID
HPS	HIGH PRESSURE SODIUM	W	WIRE
HTR	HEATER	W	WATTS
HV	HIGH VOLTAGE	WG	WIRE GUARD
IC	INTERCOMMUNICATION	WP	WEATHERPROOF
ID	IDENTIFY IDENTIFICATION	WT	WATER TIGHT
IND	INTERMEDIATE METAL CONDUIT	XP	EXPLSION PROOF
INDAN	INCANDESCENT	XXHW	CROSS LINKED POLYETHYLENE INSULATED WIRE
INSUL	INSULATION	XXMR	TRANSFORMER
IPS	INTERMEDIATE POWER SUPPLY	Y	WE CONNECTION
IR	PASSIVE INFERRER		
JB	JUNCTION BOX		
JCT	JUNCTION		

FEEDER NAMING SCHEME



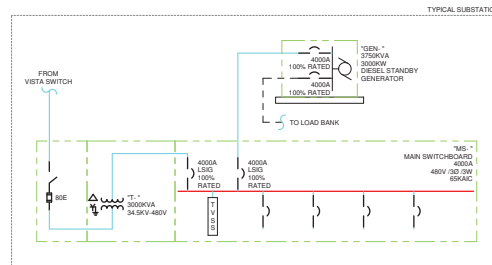
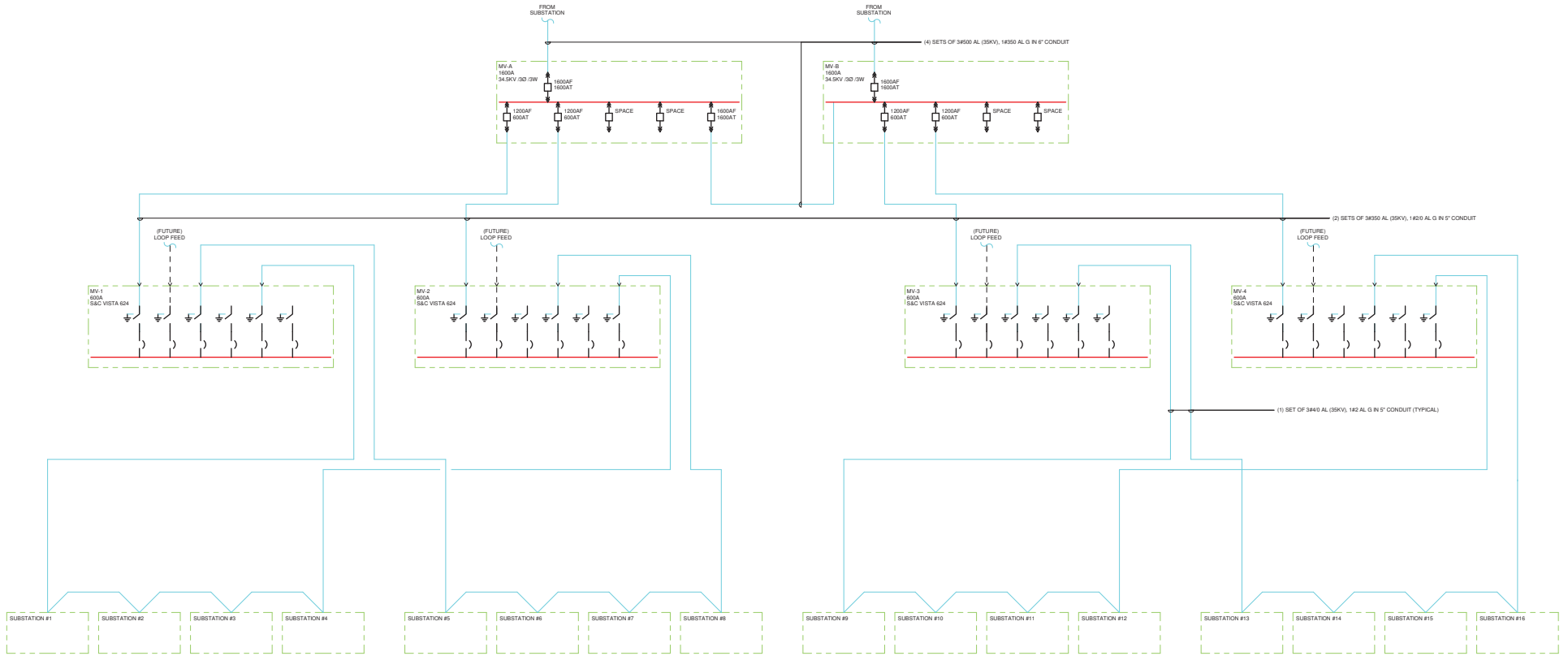
LINE TYPE LEGEND



LEGEND AND ABBREVIATIONS

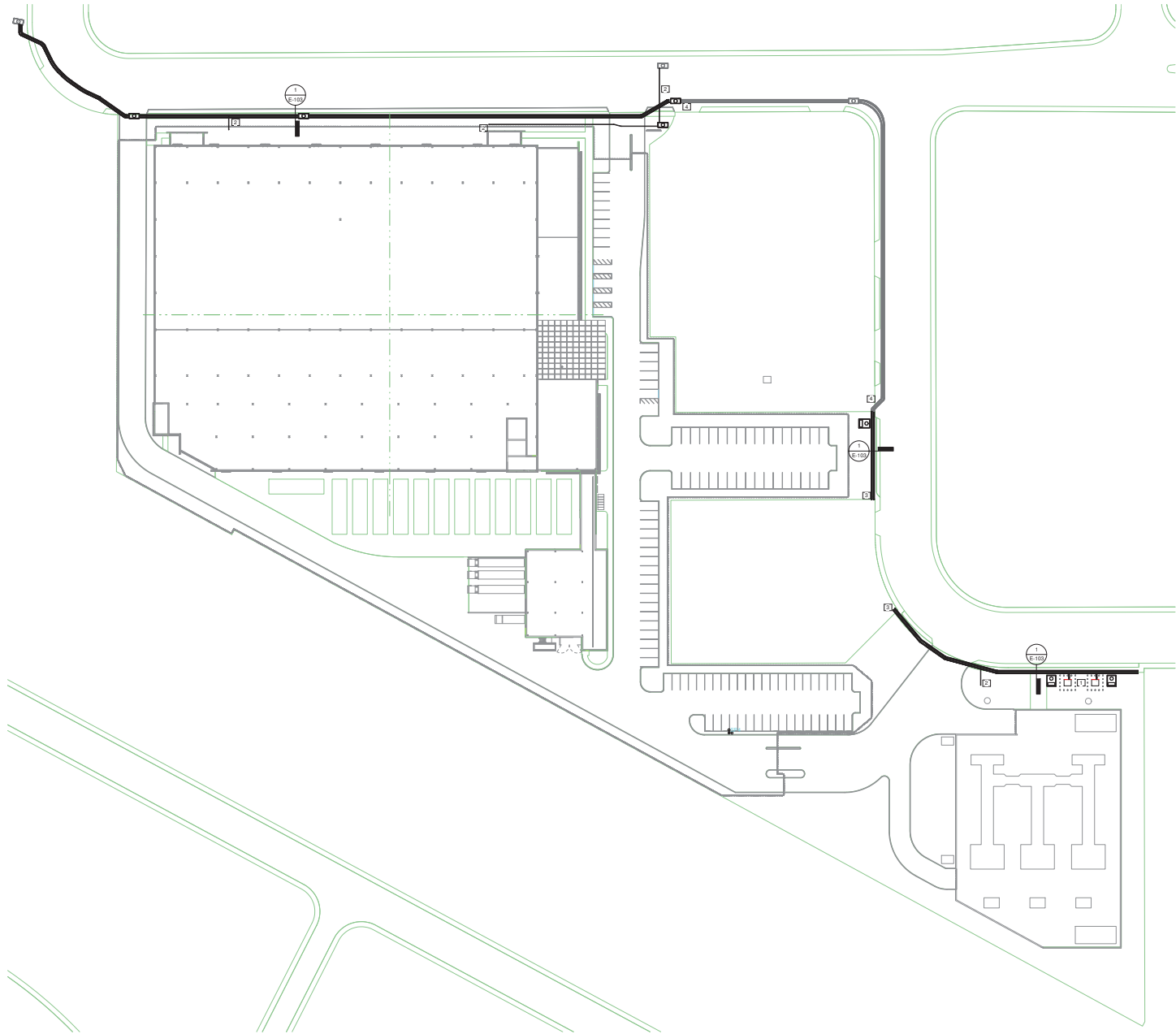
As indicated
04.09.2020





KEYED NOTES

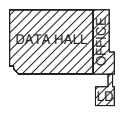
- 1 PROVIDE TWO (2) SVP PUL TRANSFORMER PADS IN VICINITY FOR SVP CONTROL ROOM POWER DIVERSE 120V SOURCES REQUIRED. REFERENCE SVP-1031000 FOR ADDITIONAL REQUIREMENTS.
- 2 PROVIDE (1) 4" FC FOR SVP FIBER OPTIC CONNECTION.
- 3 TIE INTO EXISTING DUCTBANK AT INDICATED LOCATION.
- 4 SCOPE OF WORK BY OTHERS.



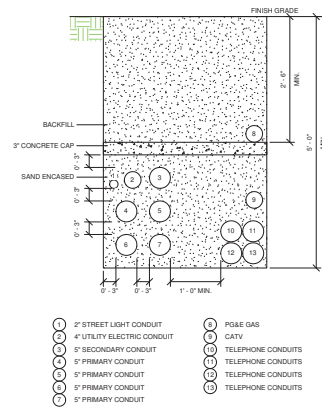
Project Number: 19.161

ELECTRICAL SITE ROUTING PLAN

1" = 40'-0"
03.17.2020



E-102



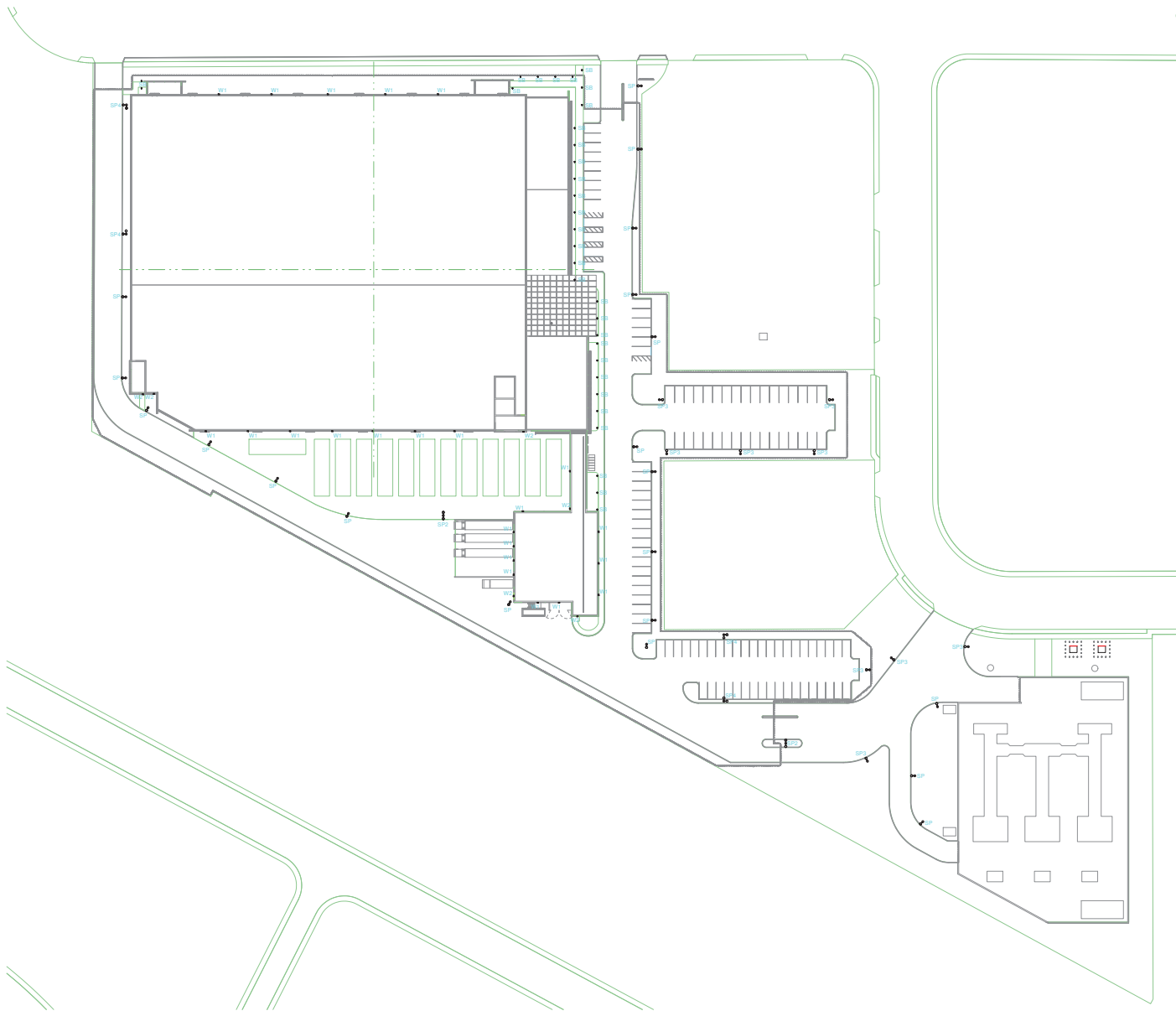
1 UTILITY DUCTBANK - SVP UG1.000 - JOINT TRENCH
N.T.S.



ELECTRICAL SITE DETAILS

N.T.S.
03.17.2020

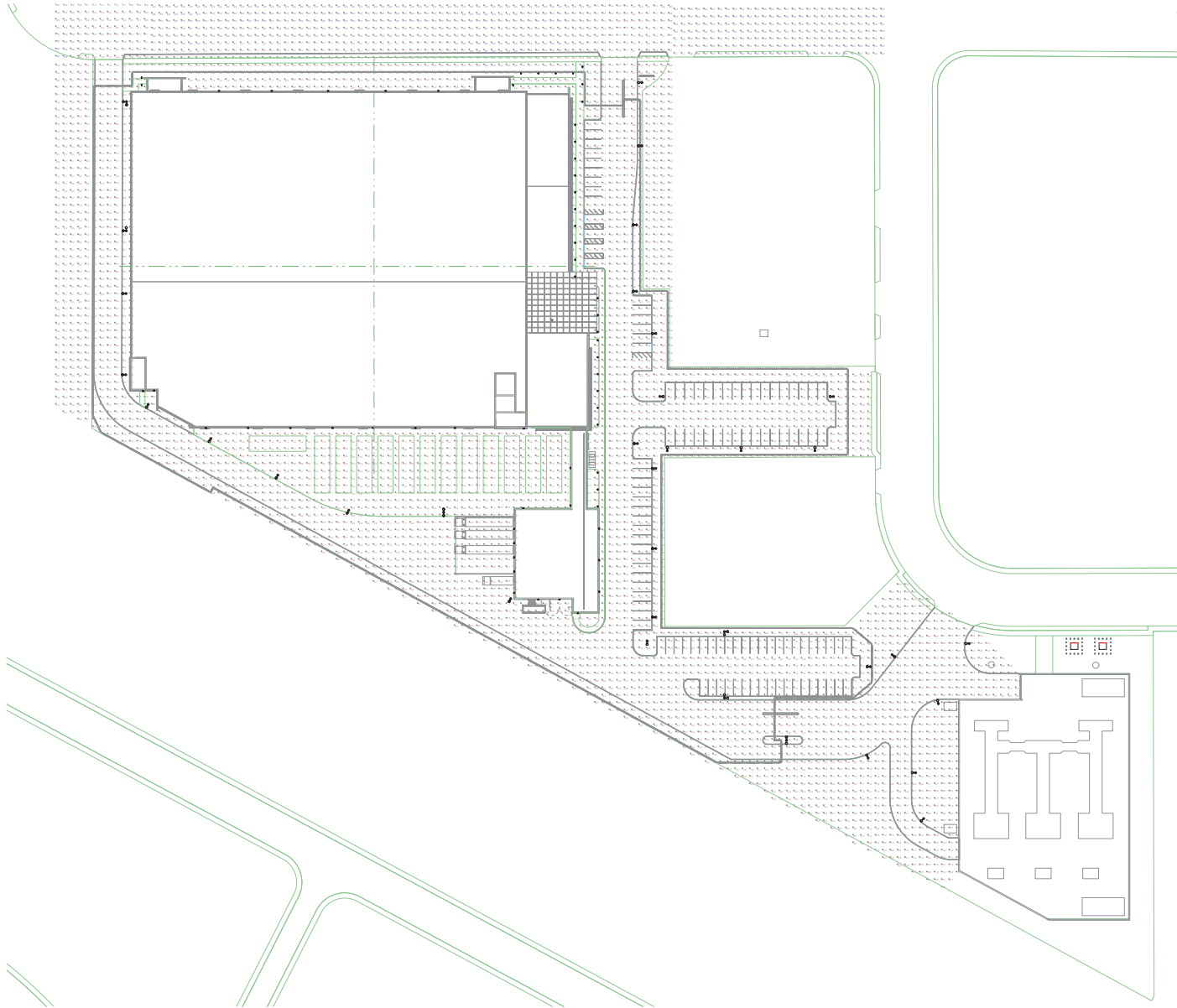




ELECTRICAL SITE LIGHTING PLAN

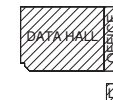
1" = 40'-0"
03.17.2020





SITE LIGHTING PHOTOMETRICS

1" = 40'-0"
03.17.2020



LUMINAIRE SCHEDULE									
Fixture Type	Manufacturer	Cat. No.	Description	Lamp Count	Lamp Type	Input Voltage	Wattage	Mounting	
S0	LITHONIA	WB8 LED 140 50 4K 57W MVOLT	SPECIFICATION LED BOLLARD WITH SYMMETRIC DISTRIBUTION, 8" DIAMETER, 40" HEIGHT	1	4000K LED MODULE, 1500 LUMEN OUTPUT	MVOLT	20W	MOUNTED 3'-0" ABOVE FINISHED GRADE U.O.N.	
S1	SUNIFY GARDCO	H14L48L700NW-Q2-3	FORM TEN SQUARE AREA LED, 48 LED, 4000K CCT, TYPE 8 OPTIC, GLASS LENS	1	4000K LED MODULE, 3476 LUMEN OUTPUT	277V	110W	POLE MOUNTED 25'-0" ABOVE FINISHED GRADE U.O.N.	
SF2	SUNIFY GARDCO	H14L48L700NW-Q2-2	FORM TEN SQUARE AREA LED, 48 LED, 4000K CCT, TYPE 8 OPTIC, GLASS LENS TWO HEAD OPTION 180 DEGREE ORIENTATION	2	4000K LED MODULE, 3476 LUMEN OUTPUT	277V	110W	POLE MOUNTED 25'-0" ABOVE FINISHED GRADE U.O.N.	
SF3	SUNIFY GARDCO	H14L48L700NW-Q2-3	FORM TEN SQUARE AREA LED, 48 LED, 4000K CCT, TYPE 8 OPTIC, GLASS LENS	1	4000K LED MODULE, 1748 LUMEN OUTPUT	277V	110W	POLE MOUNTED 25'-0" ABOVE FINISHED GRADE U.O.N.	
SF4	SUNIFY GARDCO	H14L48L700NW-Q2-2	FORM TEN SQUARE AREA LED, 48 LED, 4000K CCT, TYPE 8 OPTIC, GLASS LENS TWO HEAD OPTION 90 DEGREE ORIENTATION	2	4000K LED MODULE, 3476 LUMEN OUTPUT	277V	110W	POLE MOUNTED 25'-0" ABOVE FINISHED GRADE U.O.N.	
W1	LITHONIA	WB7 LED P1 4K VF MVOLT	EXTERIOR LED WALL MOUNT, VISUAL COMFORT, FORWARD THROW	1	4000K LED MODULE, 1500 LUMEN OUTPUT	MVOLT	12W	MOUNTED 18'-0" ABOVE FINISHED FLOOR U.O.N.	
W2	LITHONIA	WB7 LED P1 4K VF MVOLT	EXTERIOR LED DOOR PACK, VISUAL COMFORT, FORWARD THROW	1	4000K LED MODULE, 1500 LUMEN OUTPUT	MVOLT	12W	MOUNTED 1'-0" OVER DOOR U.O.N.	



LUMINAIRE SCHEDULE

03.17.2020

