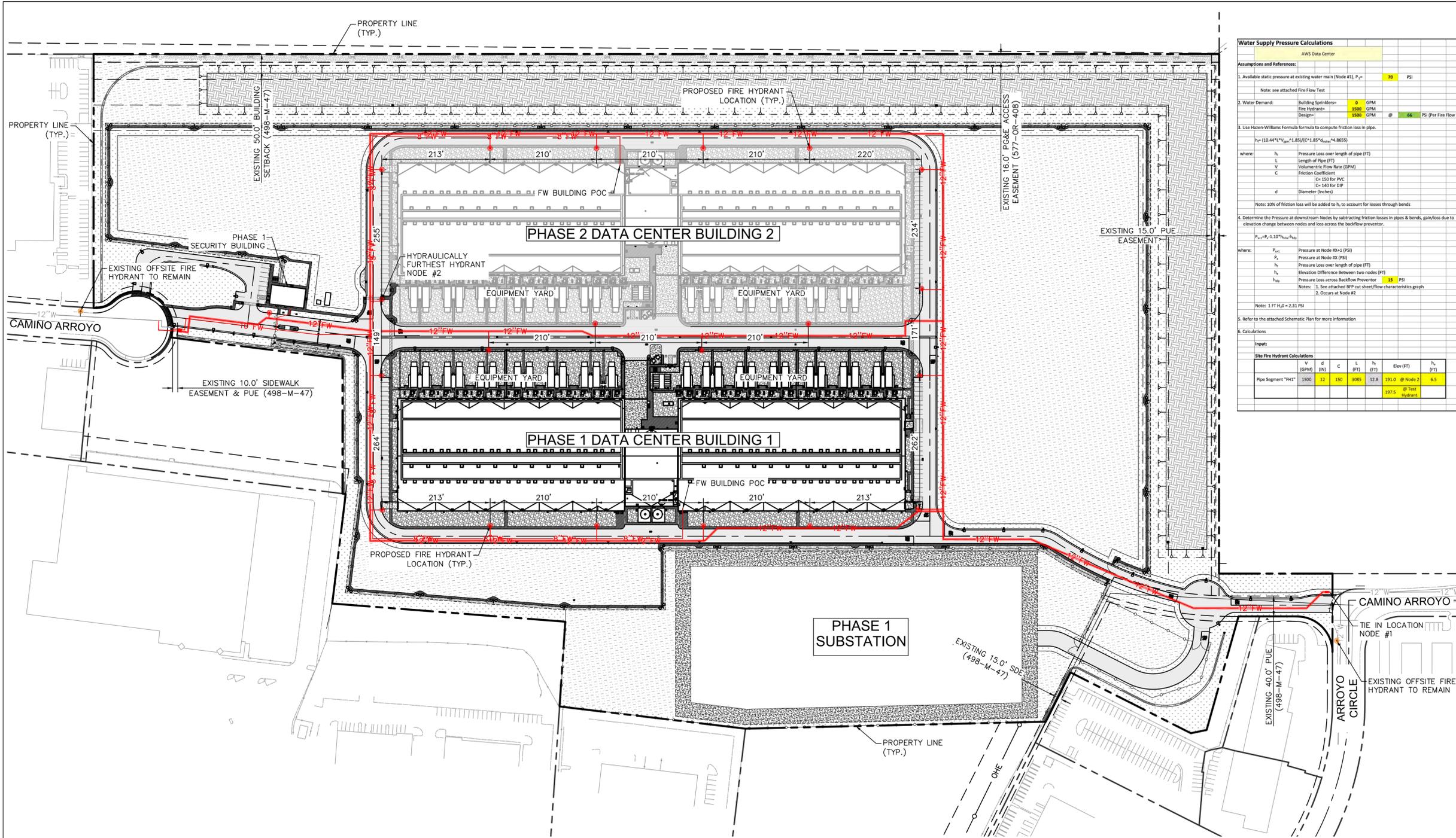


DOCKETED

Docket Number:	20-SPPE-03
Project Title:	Gilroy Backup Generating Facility
TN #:	236010
Document Title:	Appendix A (2 of 3)
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	12/17/2020 5:12:01 PM
Docketed Date:	12/18/2020



Water Supply Pressure Calculations

Prepared By: Kimley-Horn and Associates

Assumptions and References:

- Available static pressure at existing water main (Node #1), P₁ = 70 PSI
- Water Demand: Building Sprinklers = 0 GPM, Fire Hydrants = 1500 GPM, Design = 1500 GPM @ 66 PSI (Per Fire Flow Test)
- Use Hazen-Williams Formula formula to compute friction loss in pipe.

$$h_f = 10.44 \frac{L}{C^{1.85}} \frac{Q^{1.85}}{d^{4.87}}$$

where:

- h_f = Pressure Loss over length of pipe (FT)
- L = Length of Pipe (FT)
- Q = Volumetric Flow Rate (GPM)
- C = Friction Coefficient
- d = Diameter (inches)

Note: 10% of friction loss will be added to h_f to account for losses through bends

- Determine the Pressure at downstream Nodes by subtracting friction losses in pipes & bends, gain/loss due to elevation change between nodes and loss across the backflow preventer.

$$P_{n+1} = P_n - 2.31 \frac{h_f}{ft} \frac{L}{ft}$$

where:

- P_{n+1} = Pressure at Node (PSI)
- P_n = Pressure at Node (PSI)
- h_f = Pressure Loss over length of pipe (FT)
- L = Elevation Difference between two nodes (FT)
- h_{bp} = Pressure Loss across Backflow Preventer = 15 PSI

Note: 1 FT H₂O = 2.31 PSI

- Refer to the attached Schematic Plan for more information.

Calculations

Inputs:

Pipe Segment	V (GPM)	d (IN)	C	L (FT)	h _f (FT)	Elev (FT)	h _n (FT)	P (PSI)
10" Fire Hydrant	1500	10	150	3085	12.8	191.0 @ Node 2	6.5	77.7 @ Node #2 > 20 PSI OK

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LEGEND

	PROPERTY LINE		HYDROSEEDED AREA. SEE LANDSCAPE PLANS FOR DETAILS.
	EXISTING WATER LINE		LANDSCAPE AREA. SEE LANDSCAPE PLANS FOR DETAILS.
	FIRE HYDRANT PLACEMENT		BIORETENTION AREA
	EXISTING FIRE HYDRANT		EXISTING DIRT ROAD TO REMAIN
	PROPOSED FIRE WATER LINE. SIZE PER PLAN.		
	ASPHALT CONCRETE PAVEMENT		
	CONCRETE SIDEWALK		
	HEAVY DUTY CONCRETE		
	PLANTING BARRIER. SEE LANDSCAPE PLANS FOR DETAILS.		
	GRAVEL. SEE LANDSCAPE PLANS FOR DETAILS.		

PHASE 1 DATA CENTER BUILDING 1 DATA

BUILDING CONSTRUCTION TYPE: IIB

TOTAL BUILDING SQUARE FOOTAGE: ±215,000 SF

REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION): 8,000 GPM

MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1): 8 HYDRANTS

HYDRANTS PROVIDED: 10 HYDRANTS

AVERAGE FIRE HYDRANT SPACING: 215 LF

PHASE 2 DATA CENTER BUILDING 2 DATA

BUILDING CONSTRUCTION TYPE: IIB

TOTAL BUILDING SQUARE FOOTAGE: ±215,000 SF

REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION): 8,000 GPM

MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1): 8 HYDRANTS

HYDRANTS PROVIDED: 10 HYDRANTS

AVERAGE FIRE HYDRANT SPACING: 215 LF

PHASE 1 SECURITY BUILDING DATA

BUILDING CONSTRUCTION TYPE: IIB

TOTAL BUILDING SQUARE FOOTAGE: ±2,500 SF

REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION): 1,500 GPM

MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1): 1 HYDRANT

HYDRANTS PROVIDED: 1 HYDRANT

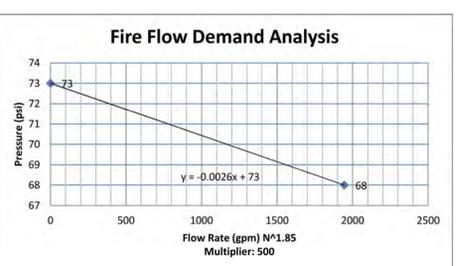
- GENERAL NOTES**
- DOMESTIC WATER TO MAINTAIN 5' HORIZONTAL CLEARANCE FROM BIORETENTION AREAS.
 - CONTRACTOR TO FIELD VERIFY INVERTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
 - PRIOR TO THE START OF CONSTRUCTION, FIRE PROTECTION WATER SUPPLIES SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO THE TIME OF CONSTRUCTION OR PRIOR TO COMBUSTIBLE MATERIALS BEING MOVED ONSITE, UNLESS AN APPROVED ALTERNATIVE METHOD OF PROTECTION IS APPROVED BY THE FIRE PREVENTION AND HAZARDOUS MATERIALS DIVISION.

Fire Flow Graphical Analysis

Static	Pressure	Flow Rate
73	0	0
Observed	68	1725
Demand	69.1	1500

Do Not Modify

Pressure	Flow Rate
73	0
68	972881
X	751223



EXISTING UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON AVAILABLE RECORDS. THE CONTRACTOR MUST FIELD DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED UTILITIES TO ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.

PROJECT DELIVERY PACKAGE

PLANNING/ENTITLE.

PROJECT: CAMINO ARROYO - BUILDING 1

SHEET TITLE: PRELIMINARY FIRE DEPARTMENT WATER SUPPLY PLAN

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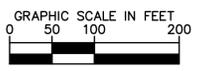
REVISIONS

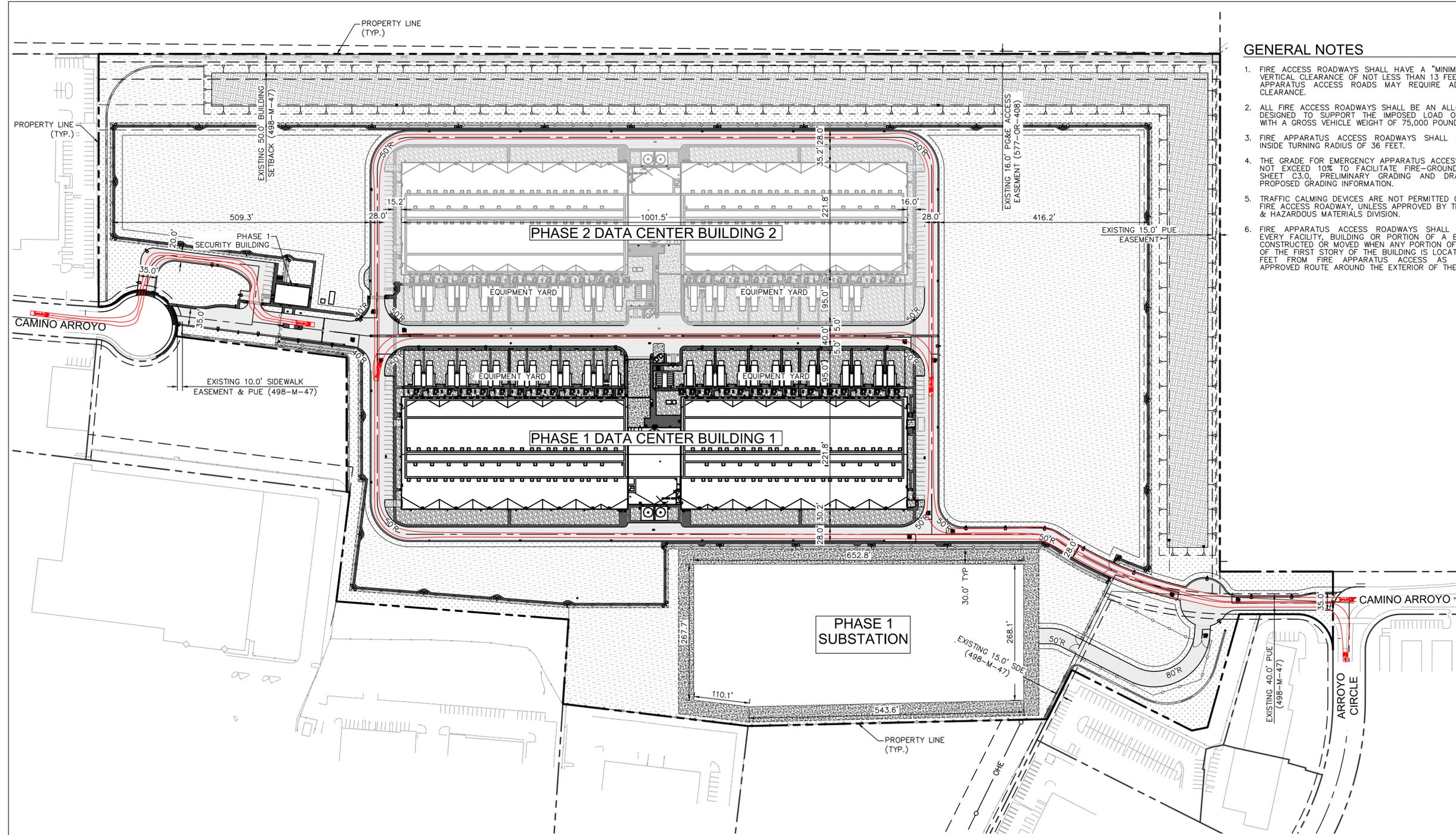
MARK	DATE	DESCRIPTION
	30OCT2020	PLANNING AND ENTITLEMENT

SEAL/SIGNATURE

ISSUE DATE: 30OCT2020 KH PROJECT NO:197315002
DESIGNED: JAK ENGINEER: MRJ
DRAWING NUMBER: **C600**

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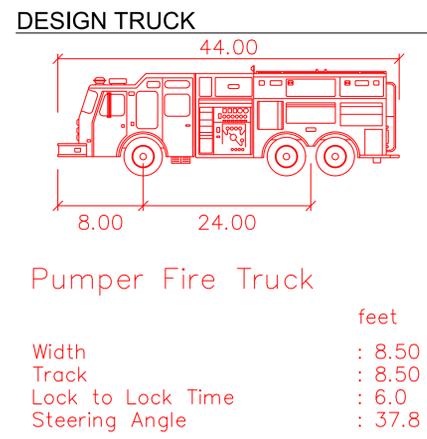
GENERAL NOTES

1. FIRE ACCESS ROADWAYS SHALL HAVE A "MINIMUM" UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES. AERIAL APPARATUS ACCESS ROADS MAY REQUIRE ADDITIONAL VERTICAL CLEARANCE.
2. ALL FIRE ACCESS ROADWAYS SHALL BE AN ALL-WEATHER SURFACE DESIGNED TO SUPPORT THE IMPOSED LOAD OF FIRE APPARATUS WITH A GROSS VEHICLE WEIGHT OF 75,000 POUNDS.
3. FIRE APPARATUS ACCESS ROADWAYS SHALL HAVE A "MINIMUM" INSIDE TURNING RADIUS OF 36 FEET.
4. THE GRADE FOR EMERGENCY APPARATUS ACCESS ROADWAYS SHALL NOT EXCEED 10% TO FACILITATE FIRE-GROUND OPERATIONS. SEE SHEET C3.0, PRELIMINARY GRADING AND DRAINAGE PLAN, FOR PROPOSED GRADING INFORMATION.
5. TRAFFIC CALMING DEVICES ARE NOT PERMITTED ON ANY DESIGNATED FIRE ACCESS ROADWAY, UNLESS APPROVED BY THE FIRE PREVENTION & HAZARDOUS MATERIALS DIVISION.
6. FIRE APPARATUS ACCESS ROADWAYS SHALL BE PROVIDED FOR EVERY FACILITY, BUILDING OR PORTION OF A BUILDING HEREAFTER CONSTRUCTED OR MOVED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY OF THE BUILDING IS LOCATED MORE THAN 150 FEET FROM FIRE APPARATUS ACCESS AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING.

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STRUCTURAL ENGINEER HKS, INC. CLINT NASH (214) 969-6266 350 N SAINT PAUL ST., SUITE 100 DALLAS TX 75201-4240	
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PROJECT DELIVERY PACKAGE PLANNING/ENTITLE.	

LEGEND

	PROPERTY LINE		BIORETENTION AREA
	CENTERLINE		EXISTING DIRT ROAD TO REMAIN
	PROPOSED FENCE		
	ASPHALT CONCRETE PAVEMENT		
	CONCRETE SIDEWALK		
	HEAVY DUTY CONCRETE		
	PLANTING BARRIER. SEE LANDSCAPE PLANS FOR DETAILS.		
	GRAVEL. SEE LANDSCAPE PLANS FOR DETAILS.		
	HYDROSEEDED AREA. SEE LANDSCAPE PLANS FOR DETAILS.		
	LANDSCAPE AREA. SEE LANDSCAPE PLANS FOR DETAILS.		



PHASE 1 DATA CENTER BUILDING 1 DATA

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MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	8 HYDRANTS
HYDRANTS PROVIDED:	10 HYDRANTS
AVERAGE FIRE HYDRANT SPACING:	215 LF

PHASE 2 DATA CENTER BUILDING 2 DATA

BUILDING CONSTRUCTION TYPE:	IIB
TOTAL BUILDING SQUARE FOOTAGE:	±215,000 SF
REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION):	8,000 GPM
MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	8 HYDRANTS
HYDRANTS PROVIDED:	10 HYDRANTS
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PHASE 1 SECURITY BUILDING DATA

BUILDING CONSTRUCTION TYPE:	IIB
TOTAL BUILDING SQUARE FOOTAGE:	±2,500 SF
REQUIRED FIRE FLOW (PER CFC TABLE B105.1, BEFORE REDUCTION):	1,500 GPM
MINIMUM REQUIRED HYDRANTS (PER CFC TABLE C102.1):	1 HYDRANT
HYDRANTS PROVIDED:	1 HYDRANT

PROJECT: CAMINO ARROYO - BUILDING 1

SHEET TITLE: FIRE TRUCK CIRCULATION PLAN

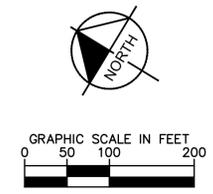
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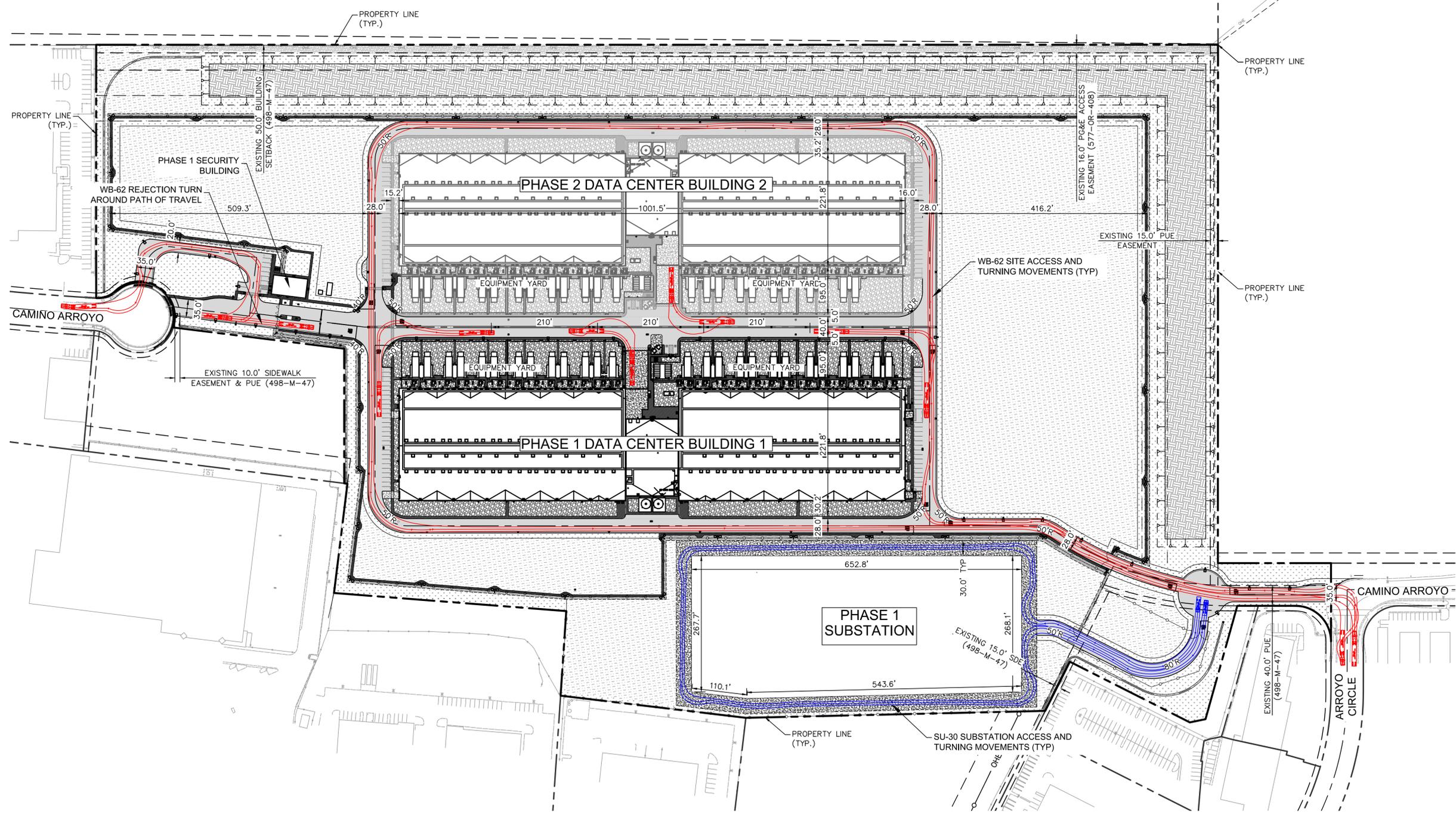
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DESIGNED: JAK ENGINEER: MRJ
DRAWING NUMBER: **C601**





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PLANNING/ENTITLE.

PROJECT: **CAMINO ARROYO - BUILDING 1**

SHEET TITLE: **SITE DESIGN VEHICLES CIRCULATION PLAN**

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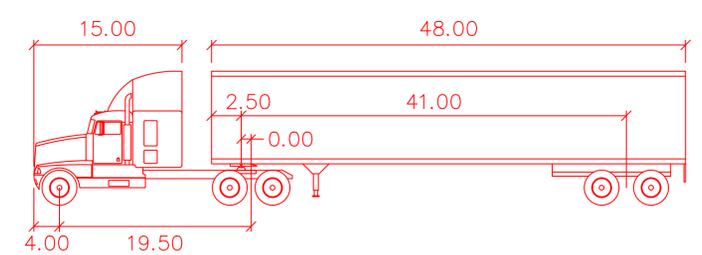
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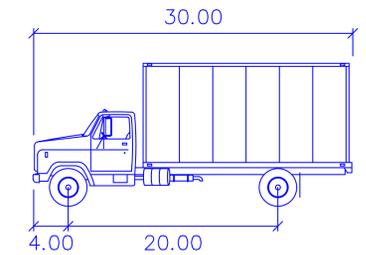
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	CENTERLINE		CRUSHED STONE. SEE LANDSCAPE PLAN FOR DETAILS.
	PROPOSED FENCE		
	ASPHALT CONCRETE PAVEMENT		
	CONCRETE SIDEWALK		
	HEAVY DUTY CONCRETE		
	PLANTING BARRIER. SEE LANDSCAPE PLANS FOR DETAILS.		
	GRAVEL. SEE LANDSCAPE PLANS FOR DETAILS.		
	HYDROSEEDING AREA. SEE LANDSCAPE PLANS FOR DETAILS.		
	LANDSCAPE AREA. SEE LANDSCAPE PLANS FOR DETAILS.		

DESIGN VEHICLES



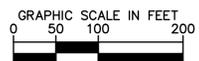
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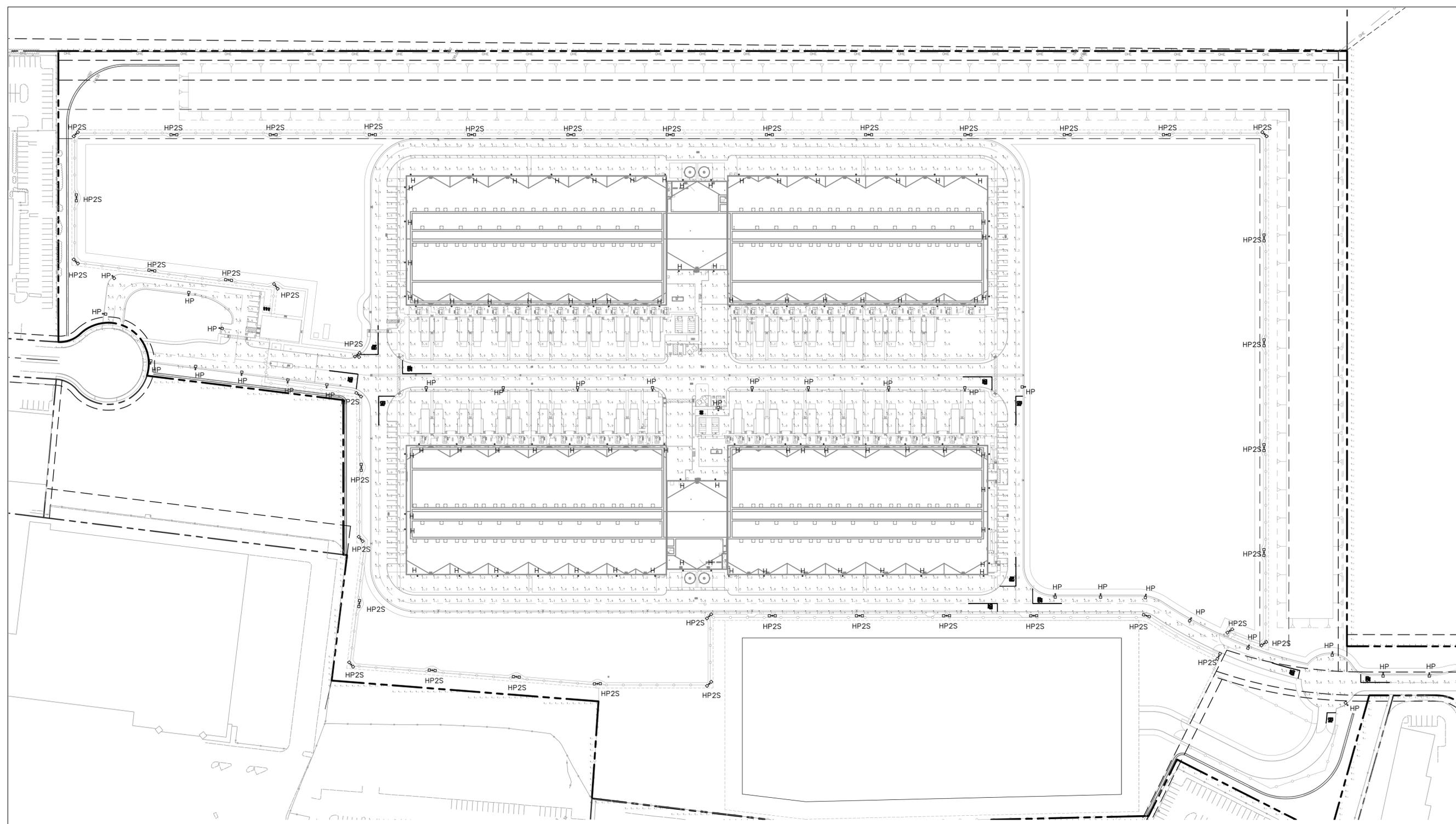
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Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		



SU-30

Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8





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 SHEET TITLE: **PHOTOMETRIC PLAN**
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LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	CATALOG #	LAMP TYPE	VOLT	MOUNTING	NOTES	COUNT
H	⬠	EXTERIOR ARCHITECTURAL AREA LUMINAIRE - WALLMOUNT	LITHONIA: DSXO LED 40C 700 40K T4M MVOLT PER7 WBA DDBXD*	LED 11,000 LUMENS 4000K	277	WALLMOUNT 37'	PROVIDE WITH FIXTURE MOUNTED PHOTOCELL	80
HP	⬠	EXTERIOR ARCHITECTURAL AREA LUMINAIRE - POLE MOUNT	LITHONIA: DSXO LED 40C 700 40K T4M MVOLT PER7 SPA DDBXD*	LED 11,000 LUMENS 4000K	277	POLE MOUNT 20'	PROVIDE WITH FIXTURE MOUNTED PHOTOCELL, POLE MOUNT	28
HP2S	⬠	2 HEAD EXTERIOR SECURITY LUMINAIRE - POLE MOUNT	RAYTECH: VARIO2 w8-2 12-24V AC/DC	LED 7,454 LUMENS 6000K	12-24V AC/DC	POLE MOUNT 18'	PROVIDE WITH FIXTURE MOUNTED PHOTOCELL, POLE MOUNT	41

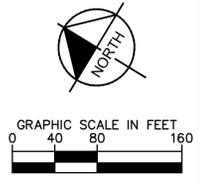
*PHOTOMETRIC FILES FOR EXACT MODEL NUMBERS NOT AVAILABLE, EQUIVALENT MODEL FROM THE SAME MANUFACTURER USED FOR LIGHTING ANALYSIS.

CALCULATION SUMMARY

ZONE	AVG (FC)	MAX (FC)	MIN (FC)	MAX/MIN	AVERAGE/MIN
SITE	1.25	3.4	0.1	12.50	34.00
PROPERTY LINE*	0.08	2.3	0.0	N/A	N/A

*SECURITY LIGHTS AT PROPERTY LINE ARE ASSUMED OFF (NORMAL CONDITIONS). LIGHTS WILL TURN ON WHEN MOTION IS DETECTED AROUND THE PERIMETER OF THE FENCE.

- NOTES:
- LIGHTING PHOTOMETRY FOR SECURITY LIGHTS ARE NEGLECTED FROM THE CALCULATIONS AS THEIR NORMAL STATE WILL BE OFF.
 - SITE ELECTRIC PLANS TO BE PREPARED BY MEP.
 - INTERIOR, ROOF, AND EGRESS DOOR LIGHTING BY OTHERS.



VAR2-w8-2
Long Range White-Light Illuminator



- Distances up to 254m (833ft)
- PLATINUM Elite SMT LED Technology
- Hot-spot Reduction Technology (HRT)
- VARIO Interchangeable Lens System
- VARIO Remote Control (optional)
- Angles from 10-120 degrees – from 1 product
- Excellent Colour Rendition
- Advanced Security Settings

Delivering world leading power and illumination distances VARIO2 next generation illuminators can improve the performance of any video surveillance system at night.

VARIO2 illuminators use PLATINUM Elite SMT LED technology to deliver more power and greater distances from a smaller platform than current generation illuminators. Providing a broader range of solutions, the VARIO2 series also offers a suite of advanced security features for easier programming and safer operation of smart lighting systems.

VARIO2 features an interchangeable lens system with Hot-spot Reduction Technology, and Adaptive Illumination™ on double and triple panel models to deliver highly even illumination, where it is most needed, for outstanding night-time images. With the optional hand-held remote control, VARIO2 also makes installation and commissioning quicker, easier and safer.

The VARIO2 w8-2 White-Light series delivers maximum distances up to 254m (833ft).

Raytec Global (excluding Americas) +44 (0) 18170 50055 • sales@rayteccos.com
Raytec Americas + 1 615 270 9950 • ussales@rayteccos.com

Version 1
www.rayteccos.com



D-Series Size 0
LED Area Luminaire



Specifications

- EPA: 0.95 ft² (0.09 m²)
- Length: 26" (0.66 m)
- Width: 13" (0.33 m)
- Height: 3" (0.08 m)
- Height: 7" (0.18 m)
- Weight (max): 1.6 lbs (0.73 kg)

Color	White
Finish	White
Type	Area

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSKO LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LED	Color temperature	Distribution	Voltage	Mounting
DSKO LED	P1 P4 P7	30K 3000K	T15 Type I (Automotive)	MVOLT ¹⁴	Shipped included
		40K 4000K	T25 Type I (short)		
P3 P6	P10 P12 P13	50K 5000K	T25 Type II (medium)	480 ¹⁵	Shipped separately
		T35 Type II (short)			
P10 P12 P13	P11 P13	T35 Type II (medium)	BLC Backlight control ¹⁶	480 ¹⁵	Shipped separately
		T35 Type II (short)			
P10 P12 P13	P11 P13	T35 Type II (medium)	LCO Left corner cut-off ¹⁷	480 ¹⁵	Shipped separately
		T35 Type II (short)			
P10 P12 P13	P11 P13	T35 Type II (medium)	RCCO Right corner cut-off ¹⁸	480 ¹⁵	Shipped separately
		T35 Type II (short)			
P10 P12 P13	P11 P13	T35 Type II (medium)	TSVS Type I very short ¹⁹	480 ¹⁵	Shipped separately
		T35 Type II (short)			

Control options

Control options	Order options	Finish
Shipped installed	PIR	DSKO Dark bronze
NLTAIR2 High A/R generation 2 enabled ²⁰	PIR1	DRLD Black
PIRHN Network, high flow motion/ambient sensor ²¹	PIR11	DNAX Natural aluminum
PIRBN NEMA twist lock receptacle only (control ordered separately) ²²	PIR11CV	DNRD White
PIRBS Free pin receptacle only (control ordered separately) ²³	PIR11CV1	DNBD Textured dark bronze
PIRFB Seven pin receptacle only (back rest fixture) (control ordered separately) ²⁴	PIR11CV2	DNBLD Textured black
DMG 0-100% dimming control out back of housing for external control (control ordered separately) ²⁵	FAD	DNALD Textured natural aluminum
		DWHGD Textured white

STATE OF CALIFORNIA
Outdoor Lighting
NIRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 3 of 6
Project Address: TBD Date Prepared: 9/17/2020

A. GENERAL INFORMATION

01 Project Location (city) Gilroy 04 Total Illuminated Hardscape Area (ft²) 447,717
02 Climate Zone 4
03 Outdoor Lighting Zone per Title 24, Part 1 §10-1.14 or as designated by Authority Having Jurisdiction (AHJ):
 L2-0: Very Low - Undeveloped Parkland L2-2: Moderate - Rural Areas L2-4: High - Must be reviewed by CA Energy Commission for Approval
 L2-1: Low - Developed Parkland L2-3: Moderately High - Urban Areas

B. PROJECT SCOPE
Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.
My project consists of:
 New Lighting System Must Comply with Allowances from §140.7.
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
03 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method
04 % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100
FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.
Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)
01 General Hardscape Allowance §140.7(d)1 02 Per Application §140.7(d)2 03 Sales Frontage §140.7(d)2 04 Ornamental §140.7(d)2 05 Per Specific Area §140.7(d)2 06 Existing Power §141.0(b)2L
07 Total Allowed (Watts) 08 Total Actual (Watts) 09 Must be ≥ 08
17,715.89 + + + + + = 17,715.89 ≥ 13,056 COMPLIES
Cutoff Compliance (See Table G for Details) COMPLIES
Controls Compliance (See Table H for Details) COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
NIRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 3 of 6
Project Address: TBD Date Prepared: 9/17/2020

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
Total Hardscape Area in Table A does not match the areas entered in Table I. Please review for compliance.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2) (ie Table I has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).
Designed Wattage:
01 Name or Item Tag 02 Complete Luminaire Description 03 Watts per luminaire^{1,2} 04 How Wattage is determined 05 Total number luminaires³ 06 Luminaire Status⁴ 07 Excluded per §140.7(a) 08 Design Watts 09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)⁵ 10 Field Inspector
A Wall Mount Type IV Mfr. Linear 89 Mfr. Spec¹ 80 New 7,120 Yes
B Pole Mount Type IV Mfr. Linear 89 Mfr. Spec¹ 28 New 2,492 NA: <6,200 lumens
C Security Lights Linear 84 Mfr. Spec¹ 41 New 3,444 NA: <6,200 lumens
Total Designed Watts: 13,056

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).
FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
¹ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
² Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
³ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).
FOOTNOTES: Mounting Height is labeled MH in this table
⁴ Authority having jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b).
⁵ BLIS ratings with a lower number than the "Max Allowable" are compliant. Ex: If Max Allowable is Bug Rating is B4, then B0, B1, B2, B3 and B4 are all compliant.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 3 of 6
Project Address: TBD Date Prepared: 9/17/2020

G. CUTOFF REQUIREMENTS (BUG)
Table Instructions: Complete this table for fixtures of ≥ 6,200 initial luminaire lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.
01 Name or Item Tag 02 Complete Luminaire Description 03 Mounting Height from Property Line¹ 04 Max Allowable Backlight Rating² 05 Backlight Rating Per Design 06 Uplight Rating³ 07 Max Allowable Backlight Rating² 08 Uplight Rating Per Design 09 Mounting Height from Property Line¹ 10 Max Allowable Glare Rating⁴ 11 Glare Rating Per Design 12 Field Inspector
A Wall Mount > 2 MH from property line No Limit B2 Area Lighting UO UO > 2 MH from property line G3 G3

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).
Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 4 of 6
Project Address: TBD Date Prepared: 9/17/2020

01 Area Description 02 Shut-Off §130.2(c)1 03 Auto-Schedule §130.2(c)2 04 Motion Sensor §130.2(c)3 05 Field Inspector
Pass Fail

L. LIGHTING POWER ALLOWANCE (per §140.7)
Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7.A while "Use it or lose it" Allowances are per Table 140.7.B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2.2 & 3)
02 Area Description 03 Surface Type 04 Illuminated Area (ft²) 05 Allowed Density (W/ft²) 06 Area Allowance (Watts) 07 Perimeter Length (ft) 08 Allowed Density (W/ft) 09 Linear Allowance (Watts) 10 Total General AWA + LWA (Watts)
Parking/Roadway Asphalt 230,788 0.025 5,769.7 12,585 0.25 3,146.25 8,915.95
Curb/Gutter Concrete 24,028 0.03 720.84 0 0.4 0 720.84
Sidewalk Concrete 70,635 0.03 2,119.05 4,850 0.4 1,940 4,059.05
Equipment Pads Concrete 110,921 0.03 3,327.63 0 0.4 0 3,327.63
Loading Dock Concrete 11,414 0.03 342.42 0 0.4 0 342.42
Initial Wattage Allowance for Entire Site (Watts): 350
Total General Hardscape Allowance (Watts): 17,715.89

J. LIGHTING ALLOWANCE: PER APPLICATION
This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
NIRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 5 of 6
Project Address: TBD Date Prepared: 9/17/2020

L. LIGHTING ALLOWANCE: ORNAMENTAL
This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Buildings/NR/C/
YES NO Form/Title Field Inspector
NRC-LTO-01-E - Must be submitted for all buildings. Pass Fail
NRC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS) to be recognized for compliance. Pass Fail

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attca/providers.html>
YES NO Form/Title Field Inspector
NRC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires. Pass Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
NIRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE
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Project Name: Amazon Data Center Gilroy SFO069 Report Page: Page 6 of 6
Project Address: TBD Date Prepared: 9/17/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete
Documentation Author Name: Shawn Rayne Documentation Author Signature:
Company: Kimley-Horn Signature Date: 9/18/2020
Address: 4637 Chabot Dr Ste 300 CEA/HERS Certification Identification (if applicable): N/A
City/State/Zip: Pleasanton, CA 94588 Phone: 510-350-0232

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Shawn Rayne Responsible Designer Signature:
Company: Kimley-Horn Date Signed: 9/18/2020
Address: 4637 Chabot Dr Ste 300 License: C85704
City/State/Zip: Pleasanton, CA 94588 Phone: 510-350-0232

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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GILROY, CA 95020

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MECHANICAL ENGINEER
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SAN JOSE, CA 95113

PROJECT DELIVERY PACKAGE
PLANNING/ENTITLE.

PROJECT: CAMINO ARROYO - BUILDING 1
SHEET TITLE: LIGHTING DETAILS AND TITLE 24
CONFIDENTIAL

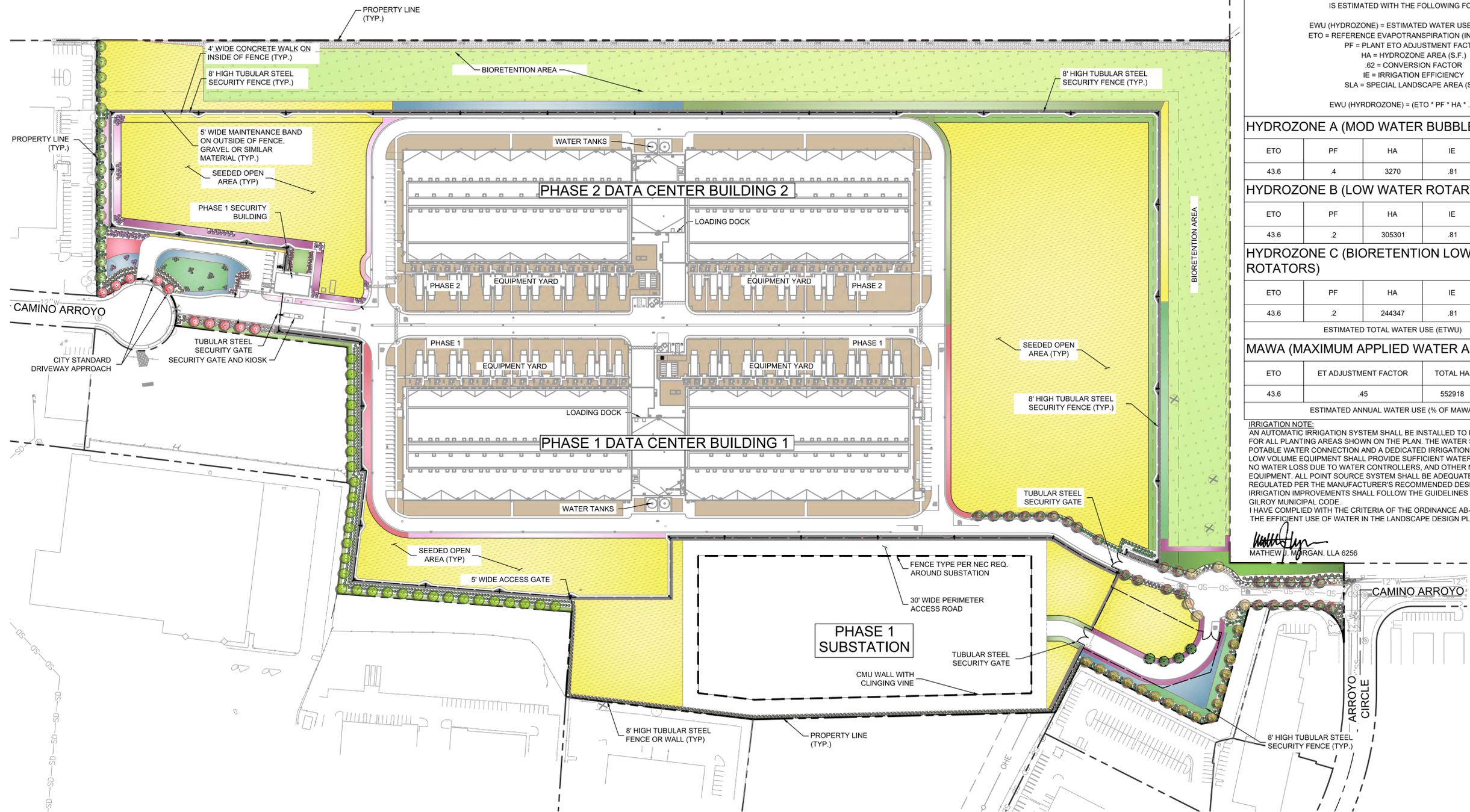
REVISIONS
MARK DATE DESCRIPTION
300CT2020 PLANNING AND ENTITLEMENT

SEAL/SIGNATURE
MILES R. JOHNSON
REGISTERED PROFESSIONAL ENGINEER
CIVIL
EXC NO: 64307
STATE OF CALIFORNIA

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ISSUE DATE: 300CT2020 KH PROJECT NO:197315002
DESIGNED: JAK ENGINEER: MRJ
DRAWING NUMBER: E101

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STATE OF CALIFORNIA ESTIMATED WATER USE

TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUNT OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA:

EWU (HYDROZONE) = ESTIMATED WATER USE (GAL / YEAR)
 ETO = REFERENCE EVAPOTRANSPIRATION (INCHES / YEAR)
 PF = PLANT ETO ADJUSTMENT FACTOR
 HA = HYDROZONE AREA (S.F.)
 .62 = CONVERSION FACTOR
 IE = IRRIGATION EFFICIENCY
 SLA = SPECIAL LANDSCAPE AREA (S.F.)

EWU (HYDROZONE) = (ETO * PF * HA * .62) / (IE)

HYDROZONE A (MOD WATER BUBBLER)

ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR
43.6	.4	3270	.81	.62	43652

HYDROZONE B (LOW WATER ROTARY)

ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR
43.6	.2	305301	.81	.62	2037752

HYDROZONE C (BIORETENTION LOW WATER ROTATORS)

ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR
43.6	.2	244347	.81	.62	1630911
ESTIMATED TOTAL WATER USE (ETWU)					3712315

MAWA (MAXIMUM APPLIED WATER ALLOWANCE)

ETO	ET ADJUSTMENT FACTOR	TOTAL HA	CONVERSION FACTOR	MAWA
43.6	.45	552918	.62	6725916
ESTIMATED ANNUAL WATER USE (% OF MAWA)				55

IRRIGATION NOTE:
 AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE 100% COVERAGE FOR ALL PLANTING AREAS SHOWN ON THE PLAN. THE WATER SUPPLY FOR THIS SITE IS A POTABLE WATER CONNECTION AND A DEDICATED IRRIGATION METER WILL BE PROVIDED. LOW VOLUME EQUIPMENT SHALL PROVIDE SUFFICIENT WATER FOR PLANT GROWTH WITH NO WATER LOSS DUE TO WATER CONTROLLERS, AND OTHER NECESSARY IRRIGATION EQUIPMENT. ALL POINT SOURCE SYSTEM SHALL BE ADEQUATELY FILTERED AND REGULATED PER THE MANUFACTURER'S RECOMMENDED DESIGN PARAMETERS. ALL IRRIGATION IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF GILROY MUNICIPAL CODE.
 I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

MATHEW J. MORGAN, LLA 6256

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PROJECT DELIVERY PACKAGE
 PLANNING/ENTITLE.

PROJECT: CAMINO ARROYO - BUILDING 1

SHEET TITLE: PRELIMINARY LANDSCAPE PLAN

CONFIDENTIAL

REVISIONS

MARK	DATE	DESCRIPTION
	30OCT2020	PLANNING AND ENTITLEMENT

SEAL/SIGNATURE

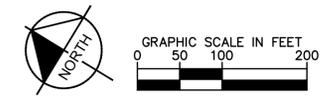
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ISSUE DATE: 30OCT2020 **KH PROJECT NO:** 197315002
DESIGNED: EB **ENGINEER:** MM
DRAWING NUMBER: L100

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PLANT PALETTE

TREES	BOTANICAL / COMMON NAME	SHRUBS	BOTANICAL / COMMON NAME	GROUND COVERS	BOTANICAL / COMMON NAME
	CINNAMOMUM CAMPHORA / CAMPHOR TREE		DIETES IRIDIROIDES / FORTNIGHT LILY		ARCTOSTAPHYLOS X 'PACIFIC MIST' / PACIFIC MIST MANZANITA
	FRAXINUS ANGUSTIFOLIA 'RAYWOOD' / NARROW-LEAVED ASH		LEUCOPHYLLUM CANDIDUM 'THUNDER CLOUD' TM / BREWSTER COUNTY BAROMETERBUSH		BACCHARIS PILULARIS 'PIGEON POINT' / COYOTE BRUSH
	PLATANUS X ACERIFOLIA / LONDON PLANE TREE		MYRTUS COMMUNIS / COMMON MYRTLE		BIORETENTION AREA
	PODOCARPUS GRACILIOR / FERN PINE		NERIUM OLEANDER 'DWARF' / DWARF OLEANDER		CARISSA MACROCARPA 'GREEN CARPET' / GREEN CARPET NATAL PLUM
	QUERCUS RUBRA / RED OAK		OLEA EUROPAEA 'MONTRA' TM / LITTLE OLLIE OLIVE		CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT' / YANKEE POINT CALIFORNIA LILAC
	RHUS LANCEA / AFRICAN SUMAC		PHORMIUM X 'AMAZING RED' / AMAZING RED NEW ZEALAND FLAX		CISTUS SALVIFOLIUS 'PROSTRATUS' / SAGELEAF ROCKROSE
	TREE FOR REMOVAL		RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' / CALIFORNIA COFFEEBERRY		CRUSHED GRAVEL / 1.5" DIA.
	TREE TO REMAIN / PROTECT IN PLACE		RHAPHIOLEPIS INDICA 'PINK LADY' / PINK LADY INDIAN HAWTHORN		CRUSHED STONE / 1/8" DESERT GOLD MANUFACTURER: LYNOSO OR APPROVED EQAUL
			WESTRINGIA FRUTICOSA 'MORNING LIGHT' / MORNING LIGHT COAST ROSEMARY		



SHADE TREES

-  CINNAMOMUM CAMPHORA / CAMPHOR TREE 40' H X 40' W
-  FRAXINUS ANGUSTIFOLIA 'RAYWOOD' / NARROW-LEAVED ASH 40' H X 20' W
-  PLATANUS X ACERIFOLIA / LONDON PLANE TREE 50' H X 40' W
-  PODOCARPUS GRACILIOR / FERN PINE 40' H X 40' W
-  QUERCUS RUBRA / RED OAK 60' H X 40' W
-  RHUS LANCEA / AFRICAN SUMAC 30' H X 20' W



SEEDED OPEN AREA

-  SEEDED OPEN AREA / SEE SHEET L100 FOR SEED MIX CHART
NATURE'S SEED PACIFIC SOUTHWEST WILDFIRE RESISTANT BLEND



BIORETENTION AREAS

-  BIORETENTION MIX SHALL INCLUDE:
BIORETENTION BASIN MATURE HEIGHT: 24" - 48"
SELECT PLANTS MAY INCLUDE:
CAREX DIVULSA / BERKELEY SEDGE
CAREX PANSA / DUNE SEDGE
CHONDROPETALUM ELEPHANTINUM / LARGE CAPE RUSH
CHONDROPETALUM TECTORUM / SMALL CAPE RUSH
JUNCUS PATENS / CALIFORNIA GRAY RUSH
STIPA ARUNDINACEA / NEW ZEALAND WIND GRASS
-  BIORETENTION BANKS MATURE HEIGHT: 24" - 48"
SELECT PLANTS MAY INCLUDE:
BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA
CHONDROPETALUM TECTORUM / SMALL CAPE RUSH
FESTUCA CALIFORNICA / CALIFORNIA RESCUE
JUNCUS PATENS / CALIFORNIA GRAY RUSH
MUHLENBERGIA RIGENS / DEER GRASS
SALVIA SONMENSIS / CREEPING SAGE
STIPA ARUNDINACEA / NEW ZEALAND WIND GRASS
-  BIORETENTION UPLAND MATURE HEIGHT: 24" - 60"
SELECT PLANTS MAY INCLUDE:
ARCTOSTAPHYLOS 'EMERALD CARPET' / EMERALD CARPET MANZANITA
CHONDROPETALUM TECTORUM / SMALL CAPE RUSH
FESTUCA CALIFORNICA / CALIFORNIA RESCUE
HETEROMELES ARBUTIFOLIA / TOYON
MUHLENBERGIA RIGENS / DEER GRASS
RHAMNUS CALIFORNICA / COFFEEBERRY
SALVIA SONMENSIS / CREEPING SAGE



NOTE: FOR BIORETENTION PLANTINGS, THE PROJECT PROPOSES A COMBINATION OF SEED, AND 1-GALLON CONTAINER STOCK. BASINS, BANKS, AND UPLAND AREAS WILL BE SEED. ADDITIONALLY, BANKS AND UPLAND AREAS WILL RECEIVE CONTAINER STOCK PLANTINGS SPACED BROADLY FOR IMMEDIATE IMPACT AND NATURALISTIC AESTHETIC. ALL PLANTS PROPOSED FOR BIORETENTION AREAS SHALL COMPLY WITH SCVURPPP RATINGS FOR BASIN, BANKS, AND UPLAND ZONES.

CRUSHED STONE

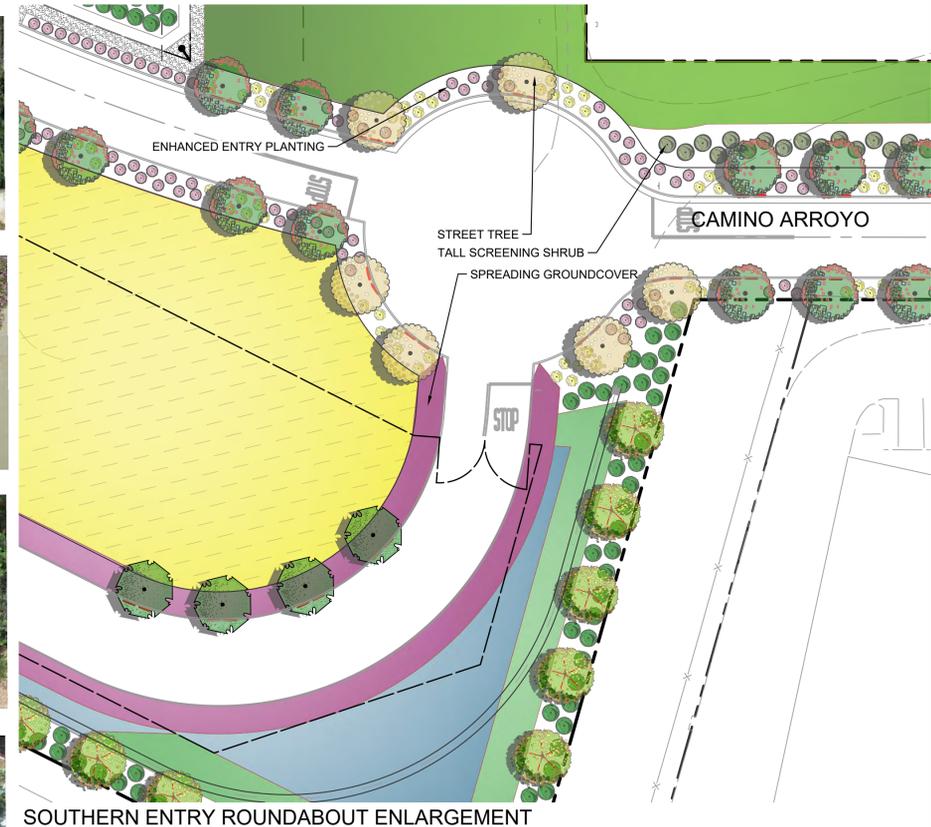
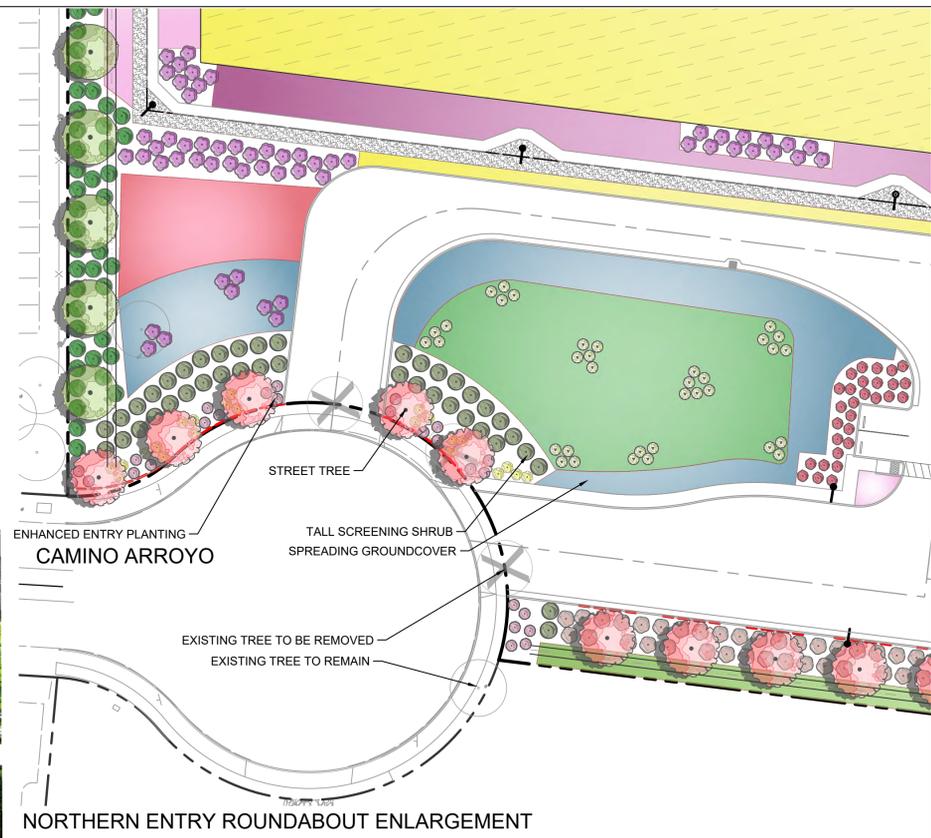
-  CRUSHED STONE / 1/8" DESERT GOLD
MANUFACTURER: LYNGSO OR APPROVED EQAUL



SHRUBS AND GROUNDCOVERS

- SHRUBS**
-  BOTANICAL / COMMON NAME MATURE HEIGHT: 24" - 60"
DIETES IRIDIROIDES / FORTNIGHT LILY
 -  LEUCOPHYLLUM CANDIDUM 'THUNDER CLOUD' TM / BREWSTER COUNTY BAROMETERBUSH
 -  MYRTUS COMMUNIS / COMMON MYRTLE
 -  NERIUM OLEANDER 'DWARF' / DWARF OLEANDER
 -  OLEA EUROPAEA 'MONTRA' TM / LITTLE OLLIE OLIVE
 -  PHORMIUM X 'AMAZING RED' / AMAZING RED NEW ZEALAND FLAX
 -  RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' / CALIFORNIA COFFEEBERRY
 -  RHAPHIOLEPIS INDICA 'PINK LADY' / PINK LADY INDIAN HAWTHORN
 -  WESTRINGIA FRUTICOSA 'MORNING LIGHT' / MORNING LIGHT COAST ROSEMARY

- GROUND COVERS**
-  BOTANICAL / COMMON NAME MATURE HEIGHT: 24" - 60"
ARCTOSTAPHYLOS X 'PACIFIC MIST' / PACIFIC MIST MANZANITA
 -  BACCHARIS PILULARIS 'PIGEON POINT' / COYOTE BRUSH
 -  BIORETENTION AREA
 -  CARISSA MACROCARPA 'GREEN CARPET' / GREEN CARPET NATAL PLUM
 -  CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT' / YANKEE POINT CALIFORNIA LILAC
 -  CISTUS SALVIFOLIUS 'PROSTRATUS' / SAGELEAF ROCKROSE
 -  CRUHSED GRAVEL / 1.5" DIA.
 -  CRUSHED STONE / 1/8" DESERT GOLD
MANUFACTURER: LYNGSO OR APPROVED EQAUL
 -  EXISTING DIRT ROAD / TO REMAIN
 -  JUNIPERUS HORIZONTALIS / CREEPING JUNIPER
 -  LANTANA MONTEVIDENSIS / TRAILING LANTANA
 -  MYOPORUM PARVIFOLIUM 'PUTAH CREEK' / PUTAH CREEK MYOPORUM
 -  ROSMARINUS OFFICINALIS 'PROSTRATUS' / DWARF ROSEMARY
 -  SEEDED OPEN AREA
NATURE'S SEED PACIFIC SOUTHWEST WILDFIRE RESISTANT BLEND OR APPROVED EQUAL



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PROJECT DELIVERY PACKAGE
PLANNING/ENTITLE.

PROJECT: **CAMINO ARROYO - BUILDING 1**
SHEET TITLE: **PRELIMINARY LANDSCAPE PALETTE AND ENLARGEMENTS**
CONFIDENTIAL

REVISIONS

MARK	DATE	DESCRIPTION
300	30OCT2020	PLANNING AND ENTITLEMENT

SEAL/SIGNATURE



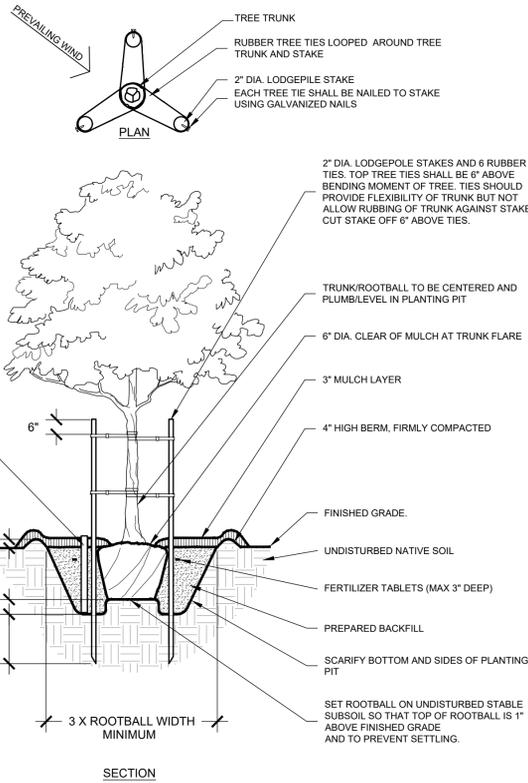
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ISSUE DATE: 30OCT2020 KH PROJECT NO:197315002
DESIGNED: EB ENGINEER: MM

DRAWING NUMBER: **L101**

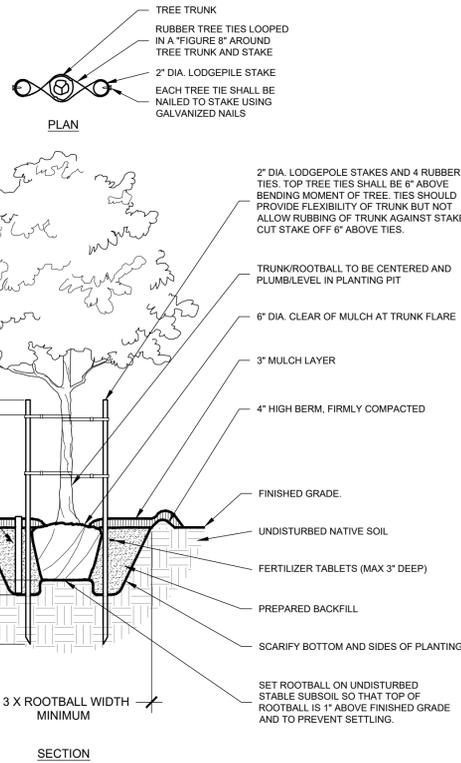
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- NOTES:**
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 2. TRIPLE STAKE ALL TREES #36" BOX SIZE AND LARGER.
 3. LOCATE ALL STAKES OUTSIDE OF ROOTBALL. DO NOT DRIVE STAKES INTO ROOTBALL. STAKE MUST BE DRIVEN MIN. 24" INTO NATIVE SOIL AT BOTTOM OF PLANTING PIT.
 4. REMOVE ANYTHING (IE. BURLAP, WIRES, STRAPS, ETC.) THAT COULD GIRDLING TREE OR RESTRICT TREE GROWTH.

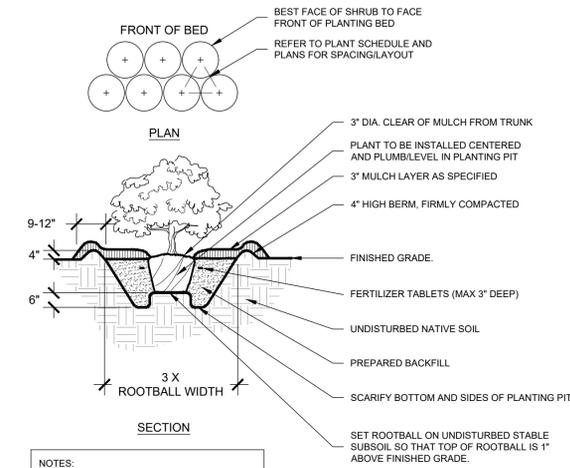


A HIGH WIND TREE PLANTING NTS

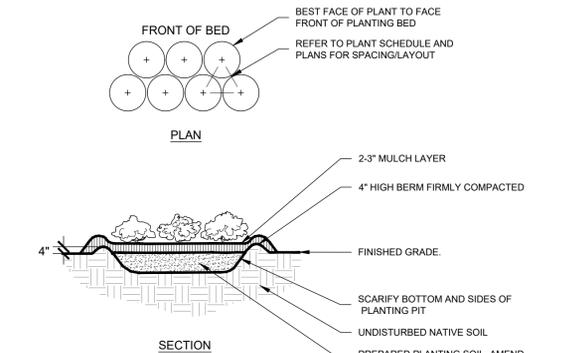
- NOTES:**
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 2. DOUBLE STAKE ALL TREES #15 (15 GAL.) SIZE AND LARGER.
 3. FOR SINGLE STAKED TREES, PLACE STAKE ON WINDWARD SIDE OF TREE.
 4. FOR DOUBLE STAKED TREES, PLACE STAKES PERPENDICULAR TO WINDWARD SIDE OF TREE.
 5. LOCATE ALL STAKES OUTSIDE OF ROOTBALL. DO NOT DRIVE STAKES INTO ROOTBALL. STAKE SHALL BE DRIVEN MIN. 24" INTO NATIVE SOIL AT BOTTOM OF PLANTING PIT.
 6. REMOVE ANYTHING (IE. BURLAP, WIRES, STRAPS, ETC.) THAT COULD GIRDLING TREE OR RESTRICT TREE GROWTH.



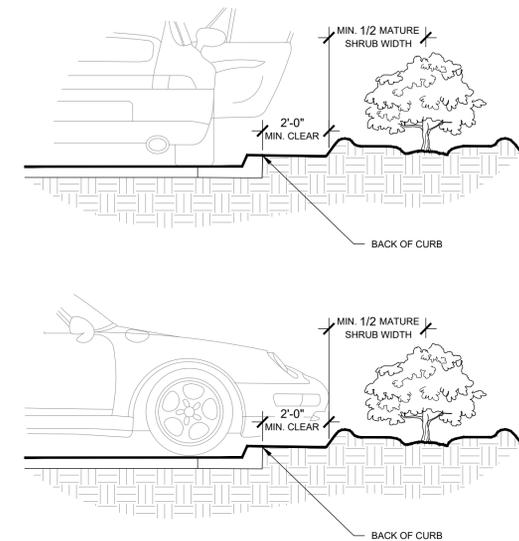
B TYPICAL TREE PLANTING NTS



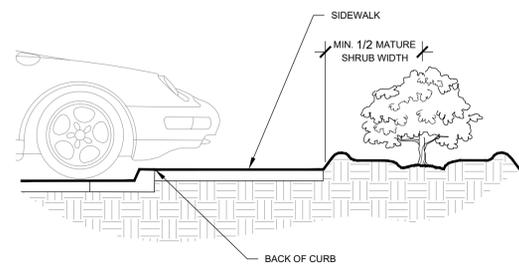
C TYPICAL SHRUB PLANTING NTS



D TYPICAL GROUNDCOVER PLANTING NTS



E SHRUB PLANTING AT CURB NTS



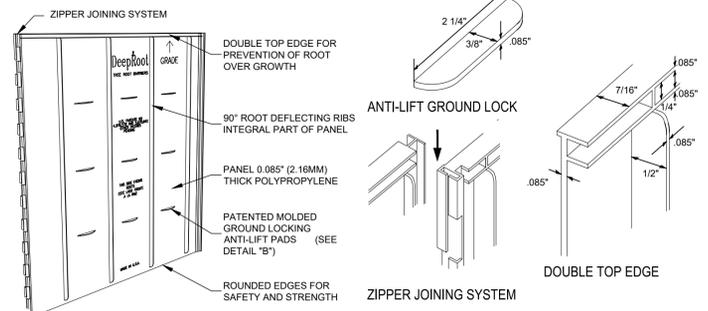
F SHRUB PLANTING AT SIDEWALK NTS

- NOTES:**
- SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING ADJACENT PAVING / HARDSCAPE ELEMENTS. ASSEMBLED IN 2' LONG MODULES OR FOR LINEAR APPLICATIONS DIRECTLY BESIDE AN ADJACENT HARDSCAPE AREA TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

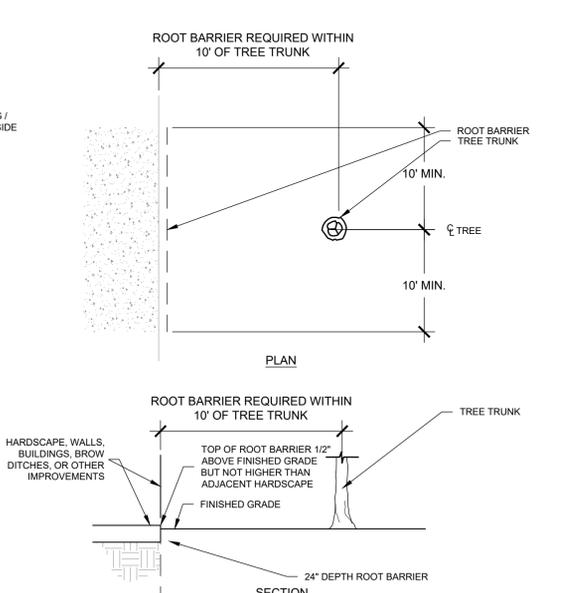
- MATERIALS:**
1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT # UB 24-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, L.P. 530 WASHINGTON STREET, SAN FRANCISCO, CA 94111 (800-458-7688), OR APPROVED EQUAL. THE BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS, OF 0.085" WALL THICKNESS IN MODULES 24" LONG BY 24" DEEP, MANUFACTURED WITH A MINIMUM 50% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE.

CONSTRUCTION AND INSTALLATION:

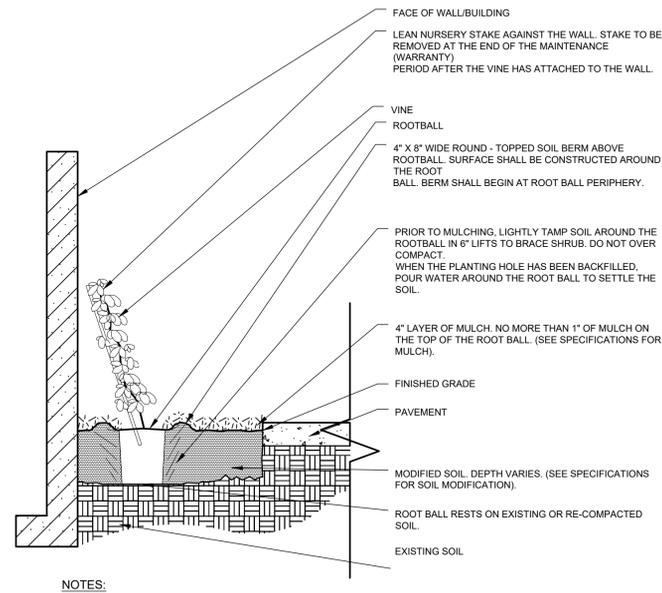
1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE NUMBER OF PANELS AND IN THE MANNER SHOWN ON THE DRAWINGS. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2" ABOVE GRADE. EACH OF THE REQUIRED NUMBER OF PANELS SHALL BE CONNECTED EITHER TO FORM A CIRCLE AROUND THE ROOT BALL OR BE JOINED IN A LINEAR FASHION AND PLACED ALONG THE ADJACENT HARDSCAPE.
2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS



G ROOT CONTROL BARRIER NTS



- NOTES:**
1. ROOT BARRIER SHALL BE INSTALLED ADJACENT TO THE IMPROVEMENT AND NOT AROUND THE ROOTBALL.
 2. ROOT BARRIER REQUIRED WHEN TREE TRUNK IS WITHIN 10' OF HARDSCAPE, WALLS, BUILDINGS, BROW DITCHES, OR OTHER IMPROVEMENTS



- NOTES:**
1. VINES SHALL BE OF QUALITY AS PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

H VINE PLANTING NTS

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PROJECT DELIVERY PACKAGE
PLANNING/ENTITLE.

PROJECT: CAMINO ARROYO - BUILDING 1
SHEET TITLE: PRELIMINARY LANDSCAPE DETAILS
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REVISIONS

MARK	DATE	DESCRIPTION
	30OCT2020	PLANNING AND ENTITLEMENT

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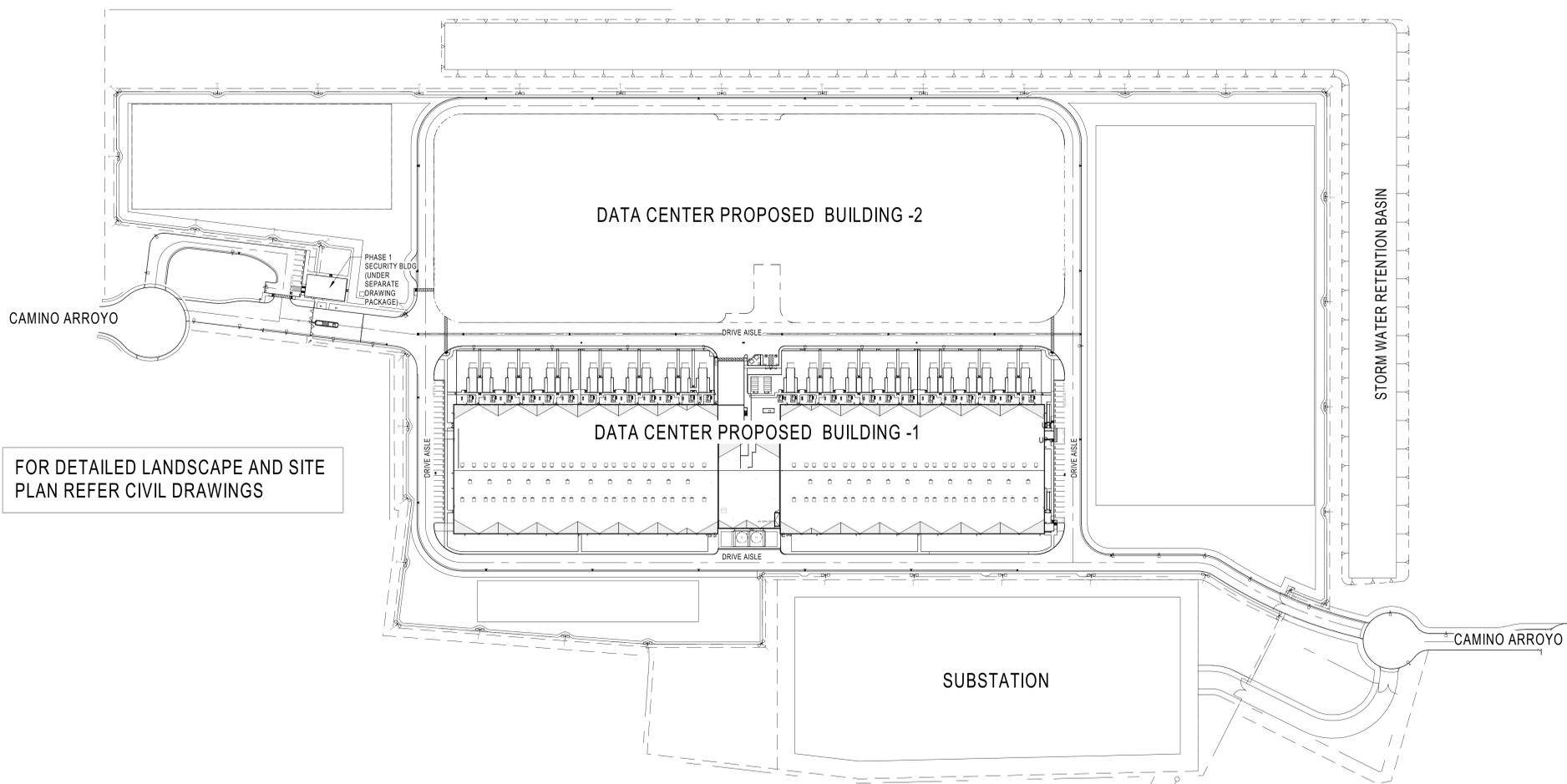


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ISSUE DATE: 30OCT2020 **KH PROJECT NO:** 197315002
DESIGNED: EB **ENGINEER:** MM

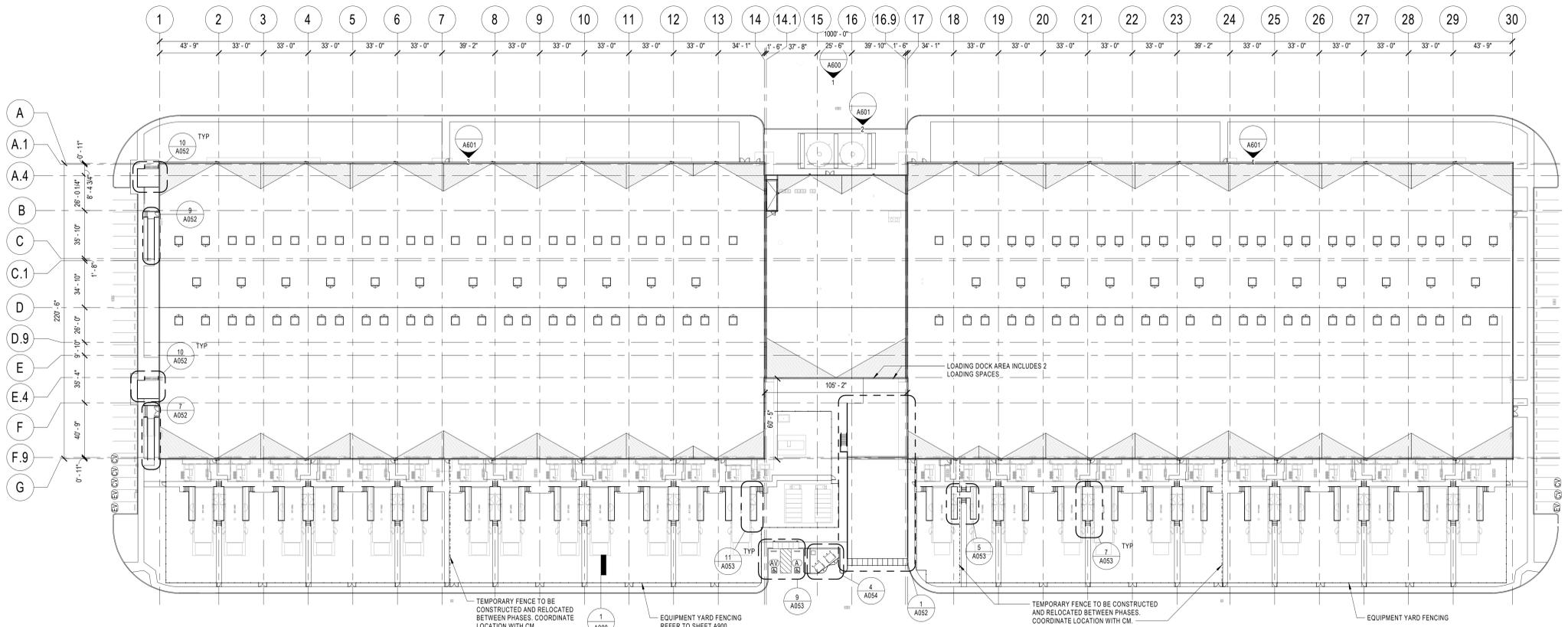
DRAWING NUMBER: L102

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FOR DETAILED LANDSCAPE AND SITE PLAN REFER CIVIL DRAWINGS

2 ARCHITECTURAL CAMPUS OVERALL PLAN
A051 1" = 100'-0"



1 ARCHITECTURAL SITE OVERALL PLAN
A051 1" = 40'-0"

GENERAL NOTES

1. ARCHITECTURAL ELEVATIONS ARE BASED ON MAIN FLOOR LEVEL 0'-0" ± CIVIL FINISH FLOOR ELEVATION, SEE CIVIL FOR PFE.
2. WHERE ENLARGED PLANS ARE PROVIDED, DETAILED DIMENSIONS AND OTHER INFORMATION WILL BE FOUND ON THE ENLARGED PLAN, UNLESS OTHERWISE INDICATED.
3. ALL STRUCTURAL STEEL EXPOSED TO VIEW WILL CONFORM TO A.E.S.S. SPECIFICATIONS.
4. REFER TO A700, A701 FOR EXTERIOR WALL ASSEMBLIES; A710, A711 FOR ROOF ASSEMBLIES.
5. EXTERIOR WALLS ARE TILT-WALL ASSEMBLIES UNLESS OTHERWISE INDICATED.
6. REFER TO A740, A741, A742 FOR INTERIOR WALL ASSEMBLIES AND STANDARD INFORMATION.
7. INTERIOR WALLS ARE A6 UNLESS OTHERWISE INDICATED.
8. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYP UNLESS OTHERWISE INDICATED.
9. ALL FIXTURES AND ACCESSORIES MOUNTED TO MEET ADA REQUIREMENTS. SEE C700 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
10. CONTRACTOR TO COORDINATE REQUIREMENTS OF EQUIPMENT WITH LOCATION OF ELECTRICAL, LIGHTING, PLUMBING, MECHANICAL, AND FIRE PROTECTION ELEMENTS. REFER TO A053 FOR SITE DETAILS.
11. REFER TO A053 FOR SITE DETAILS.
12. ALL FIBER AND CABLE PENETRATIONS THROUGH RATED WALLS WILL USE A HILTI SPEED SLEEVE SYSTEM.
13. PURCHASE AND INSTALL ADHERED 48" TALL STAINLESS STEEL CORNER GUARDS ABOVE THE WALL BASE, TIGHT TO THE WALL, AT ALL OUTSIDE CORNERS IN BACK OF HOUSE AREAS, AND AT OUTSIDE CORNERS ALONG MAJOR CIRCULATION PATHS WITHIN OFFICE AREA. USE 2" WIDE WINGS AT BACK OF HOUSE AND 1" WIDE WINGS IN OFFICE AREA.
14. CONTRACTOR TO VERIFY IN FIELD ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION.

PARKING TOTALS

SYMBOL	PARKING STALL TYPE	COUNT
(A)	ADA PARKING STALL	1
(AV)	ADA VAN PARKING STALL	1
(CV)	CLEAN AIR VEHICLE PARKING STALL	5
(EV)	ELECTRIC VEHICLE PARKING STALL	3
	REGULAR PARKING STALL	42
TOTAL PARKING STALLS PROVIDED:		52

NOTE: LOADING DOCK AREA INCLUDES 2 LOADING DOCK SPACES

PHASING

- THE MASTERPLAN CONSISTS OF 2 PHASES AS DESCRIBED BELOW:
1. DATA CENTER BUILDING 1, SUBSTATION, SECURITY BUILDING AND ALL REQUIRED DRIVE AISLES AND LANDSCAPE. REF CIVIL.
 2. DATA CENTER BUILDING 2 AND ALL REQUIRED DRIVE AISLES AND LANDSCAPE. REF CIVIL.

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PROJECT DELIVERY PACKAGE

PLANNING/ ENTITLE.

PROJECT:
CAMINO ARROYO - BUILDING 1

SHEET TITLE:
ARCHITECTURAL SITE PLAN

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REVISIONS

MARK	DATE	DESCRIPTION
A	07AUG2020	ISSUE FOR 50% REVIEW
B	18SEP2020	ISSUE FOR 80% REVIEW
C	16OCT2020	100% CD
D	09NOV2020	ISSUE FOR BID
	30OCT2020	ISSUE FOR PLANNING & ENTITLEMENT

SEAL/SIGNATURE



KEYPLAN

OVERALL

ISSUE DATE: 16OCT2020 PROJECT NO: 24094.000
DESIGNED: PA ARCHITECT: GWV
DRAWING NUMBER: **A051**

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