

DOCKETED	
Docket Number:	21-SPPE-01
Project Title:	CA3 Backup Generating Facility-Vantage
TN #:	240158
Document Title:	CA3DC PCC Drawing Set Rev3 - Part I
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	10/28/2021 10:25:36 AM
Docketed Date:	10/28/2021

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VANTAGE CA31

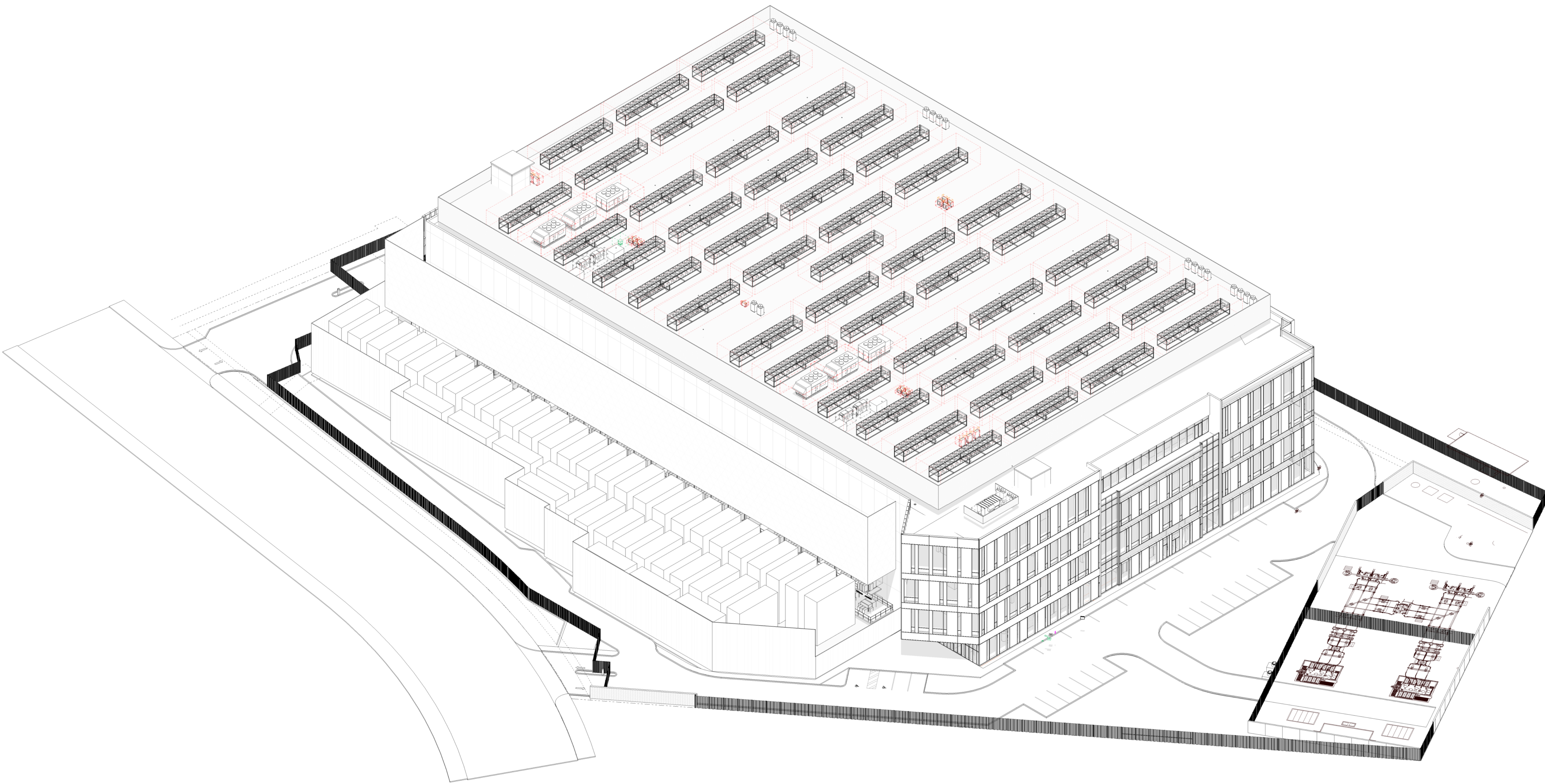
2590 WALSH AVENUE SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

10-26-2021

DRAWING LIST

<u>GENERAL</u>	
G000.01	COVER SHEET
<u>CIVIL</u>	
C1	EXISTING CONDITIONS
C2	SITE PLAN
C3	GRADING AND DRAINAGE PLAN
C4	UTILITY PLAN
C4.1	LOW VOLTAGE DUCT BANK (PRIVATE) CROSS SECTIONS
C5	STORMWATER CONTROL PLAN
C5A	STORMWATER CONTROL PLAN NOTES & DETAILS
C5B	STORMWATER CALCULATIONS
C6	FIRE ACCESS & HYDRANT PLAN
C6.1	CROSS SECTIONS
C6.1	FIRE ACCESS DRIVEWAY ENLARGEMENT & SECTIONS
C7	SITE ACCESS - WB67
<u>LANDSCAPE</u>	
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L1.1	EXISTING TREE INVENTORY / REMOVAL PLAN
L1.2	EXISTING TREE PROTECTION NOTES AND DETAILS
	ARBORIST NOTES
L1.3	EXISTING TREE INVENTORY LIST
L2.0	LANDSCAPE HYDROZONE PLAN
L3.0	LANDSCAPE CONSTRUCTION DETAILS
L3.1	LANDSCAPE CONSTRUCTION DETAILS
L3.2	LANDSCAPE CONSTRUCTION DETAILS
L4.0	LANDSCAPE SPECIFICATIONS
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AS101.02	CAMPUS PARKING PLAN
A111.01	FLOOR PLAN - LEVEL 1
A111.02	FLOOR PLAN - LEVEL 2
A111.03	FLOOR PLAN - LEVEL 3
A111.04	FLOOR PLAN - LEVEL 4
A111.06	DUNNAGE PLATFORM PLAN
A211.01	EXTERIOR ELEVATIONS
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A211.03	3D BUILDING ELEVATIONS
A420.01	TRASH ENCLOSURE AND BIKE STORAGE DETAILS
<u>ELECTRICAL</u>	
EP03-00-K	ELECTRICAL SITE LIGHTING PLAN - PHOTOMETRICS



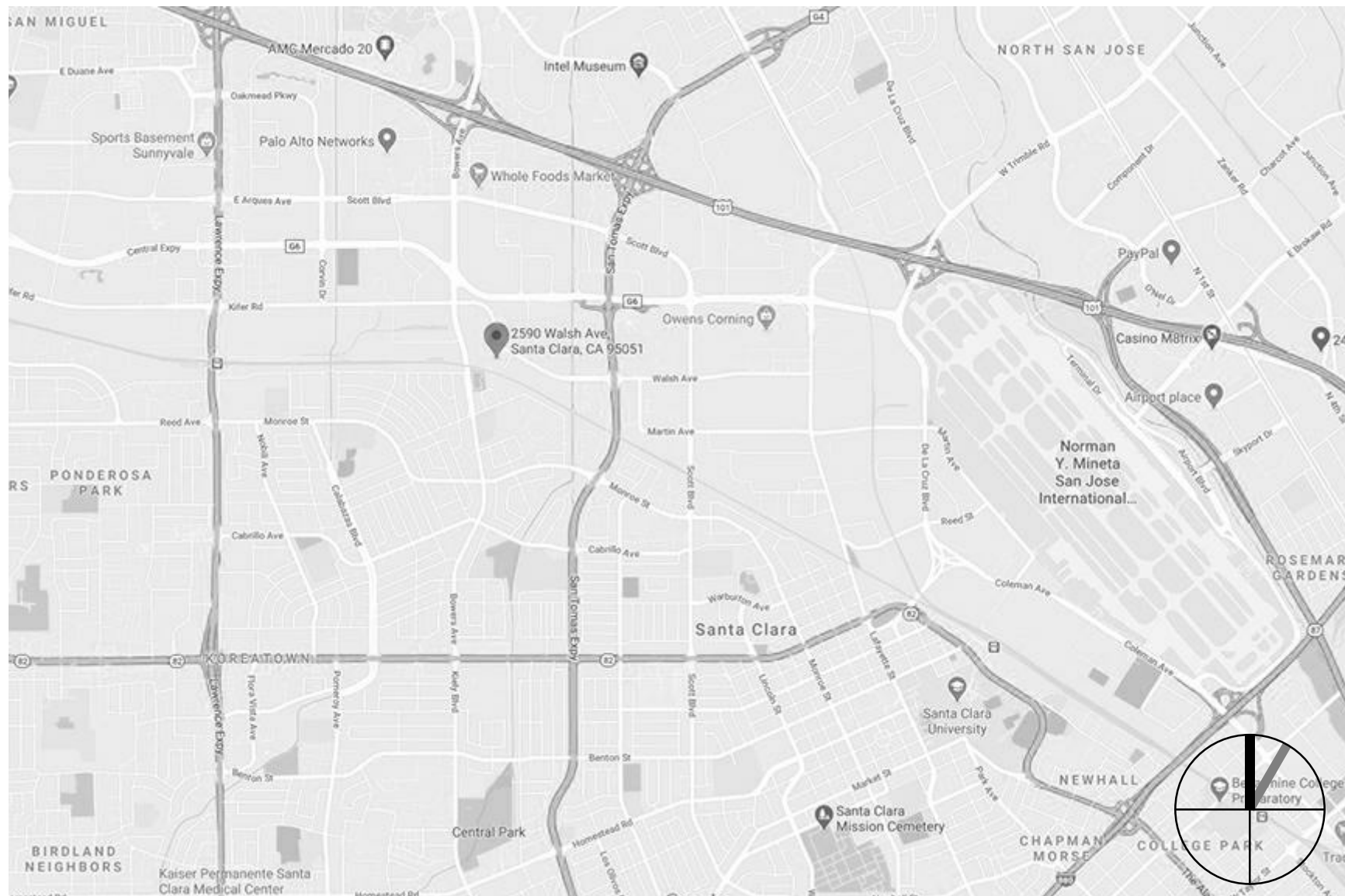
SCOPE OF WORK

NEW PROJECT CONSISTING OF 8 DATA HALLS, MECHANICAL PENTHOUSE, BACKUP GENERATORS, POWER EQUIPMENT CENTERS AND ADMINISTRATIVE FUNCTIONS.THE SITE IS CURRENTLY DEVELOPED WITH AN APPROXIMATELY 115,000 SQUARE FOOT SINGLE-STORY OFFICE AND WAREHOUSE BUILDING AND ASSOCIATED PAVED SURFACE AREAS WHICH WILL BE DEMOLISHED. THE SCOPE OF WORK WITHIN THESE DOCUMENTS CONSISTS OF ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK TO SUPPORT THE CONSTRUCTION OF THE CORE AND SHELL OF THE BUILDING AND THE TENANT BUILD OUT OF THE DATA HALL.

PROJECT INFORMATION SUMMARY

BUILDING GSF: 468,170 SF
OCCUPANCY GROUP: NON-SEPERATED MIXED OCCUPANCY(B,S-2, AND A-2)
USE: ELECTRONIC DATA PROCESSING
TYPE OF CONSTRUCTION: TYPE I-B
NUMBER OF STORIES: 4 STORIES
BUILDING HEIGHT: 87.5'
TYPE OF FIRE SPRINKLERS SYSTEM PROVIDED:
BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATED NFPA13 SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1
NUMBER OF PARKING SPACES:30 SPACES PROVIDED ON SITE*
*SEE SHEET AS100.02 FOR ADDITIONAL PARKING INFORMATION

VICINITY MAP



LOCATION MAP



OWNER



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PROGRESS SET
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D	ISSUED FOR PCC REVIEW	10-26-2021
C	ISSUED FOR PCC REVIEW	10-06-2021
B	ISSUED FOR PCC REVIEW	08-11-2021
I	ISSUED FOR 100% SD	07-16-2021
A	ISSUED FOR PCC REVIEW	05-10-2021

VANTAGE CA31
2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

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COVER SHEET

G000.01

SCALE: AS NOTED

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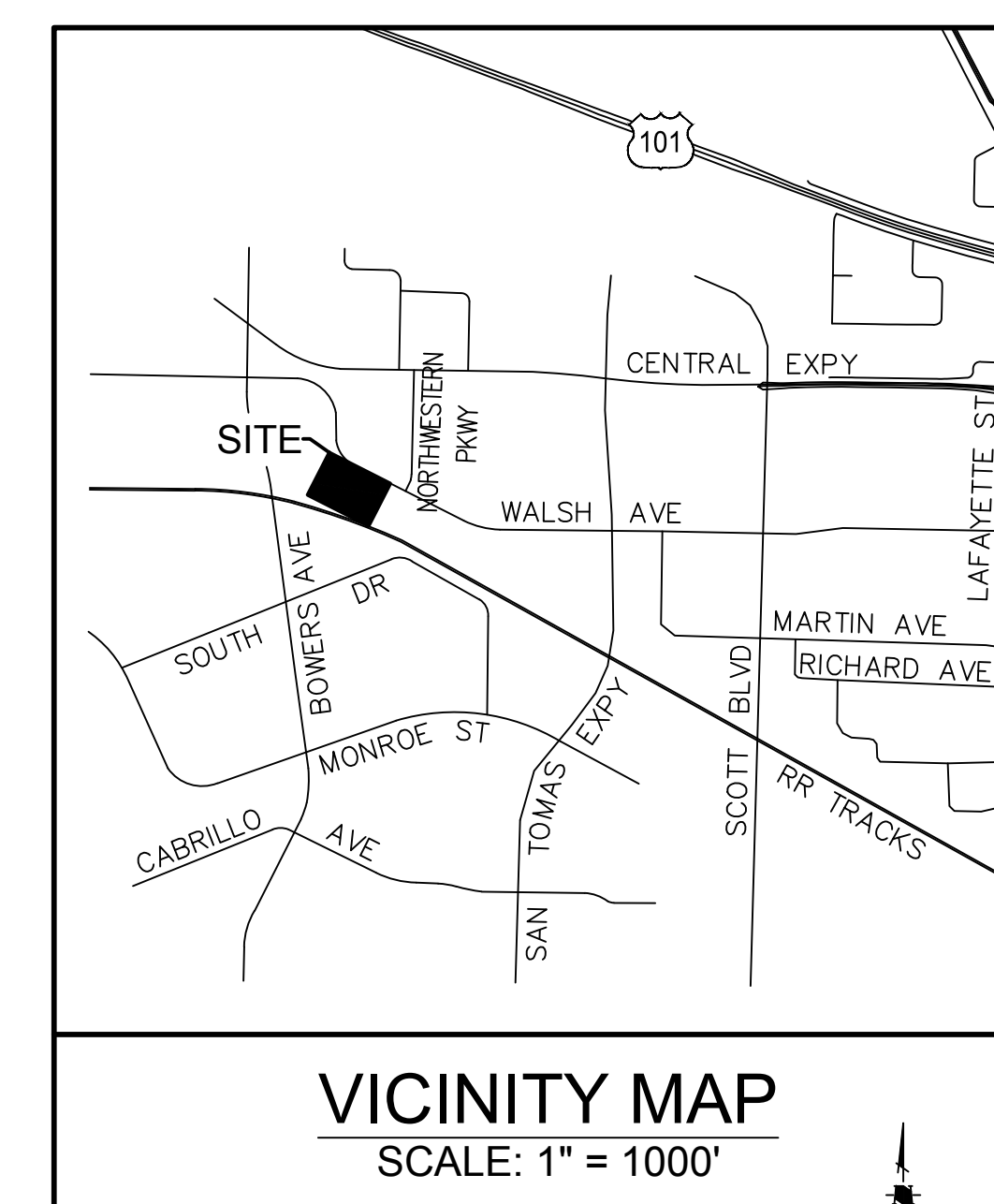
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EXISTING CONDITIONS

C1

SCALE: AS NOTED

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PROJECT BOUNDARY
EASEMENT
CURB AND GUTTER
SIDEWALK
CENTERLINE
SANITARY SEWER
STORM DRAIN LINE
DRIVEWAY
WATER MAIN
GAS
JOINT TRENCH
FIBER OPTIC
TELECOMMUNICATION
COMCAST
VERIZON

EXISTING

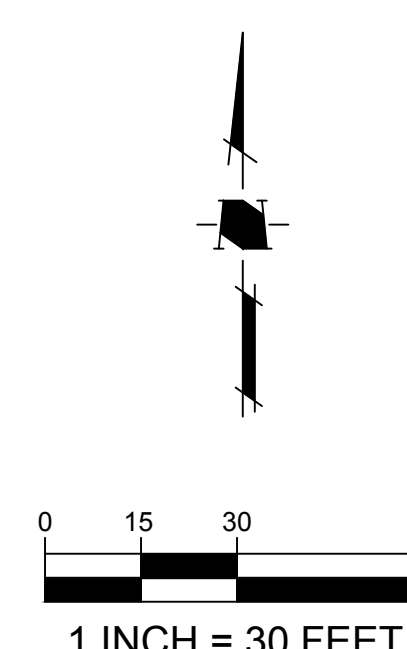
- EX-SS
- EX-SO
- EX-W
- G
- JT
- FO(E)
- T(E)
- COMCAST(E)
- VERIZON(E)

NOTES

1. ALL EXISTING STRUCTURES TO BE REMOVED.
2. ALL EXISTING TREES TO BE REMOVED ONSITE.
3. ALL EXISTING OVERHEAD UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED
4. EXISTING JOINT TRENCH ALONG PROJECT FRONTAGE CONTAINS MULTIPLE OWNERS (SVP, COMCAST, ZAYO, VERIZON BUSINESS & CENTURY LINK) WITHIN DUCT BANK.

ABBREVIATION LIST

E.U.E	ELECTRICAL UTILITY EASEMENT
W.C.E	WIRE CLEARANCE EASEMENT
ASPH	ASPHALT
CL	CENTERLINE
CONC	CONCRETE
SVP	SILICON VALLEY POWER
TP	TYPICAL
SS	SEWER
TD	TRANSFORMER DRAIN
FP	FINISHED FLOOR
TC	TOP OF CURB
HP	HIGH POINT
BOC	BACK OF CURB
PP	PROPERTY LINE
LP	LOW POINT
BUDG	BUILDING
STD	STANDARD
ADMIN	ADMINISTRATION
BW	BACK OF WALK
EW	EDGE OF WALK
EGS	EDGE OF GRADE
ESMT	EASEMENT
EXIST	EXISTING
GEN	GENERAL
LNS	LANDSCAPE
EL	ELEVATION
FHY	FIRE HYDRANT
PAV	PAVEMENT
DMA	DRAINAGE MANAGEMENT AREA
YMI	YARD MEASUREMENT, MEASURE
AB	AGGREGATE BASE
MIN	MINIMUM
WFO	WFO



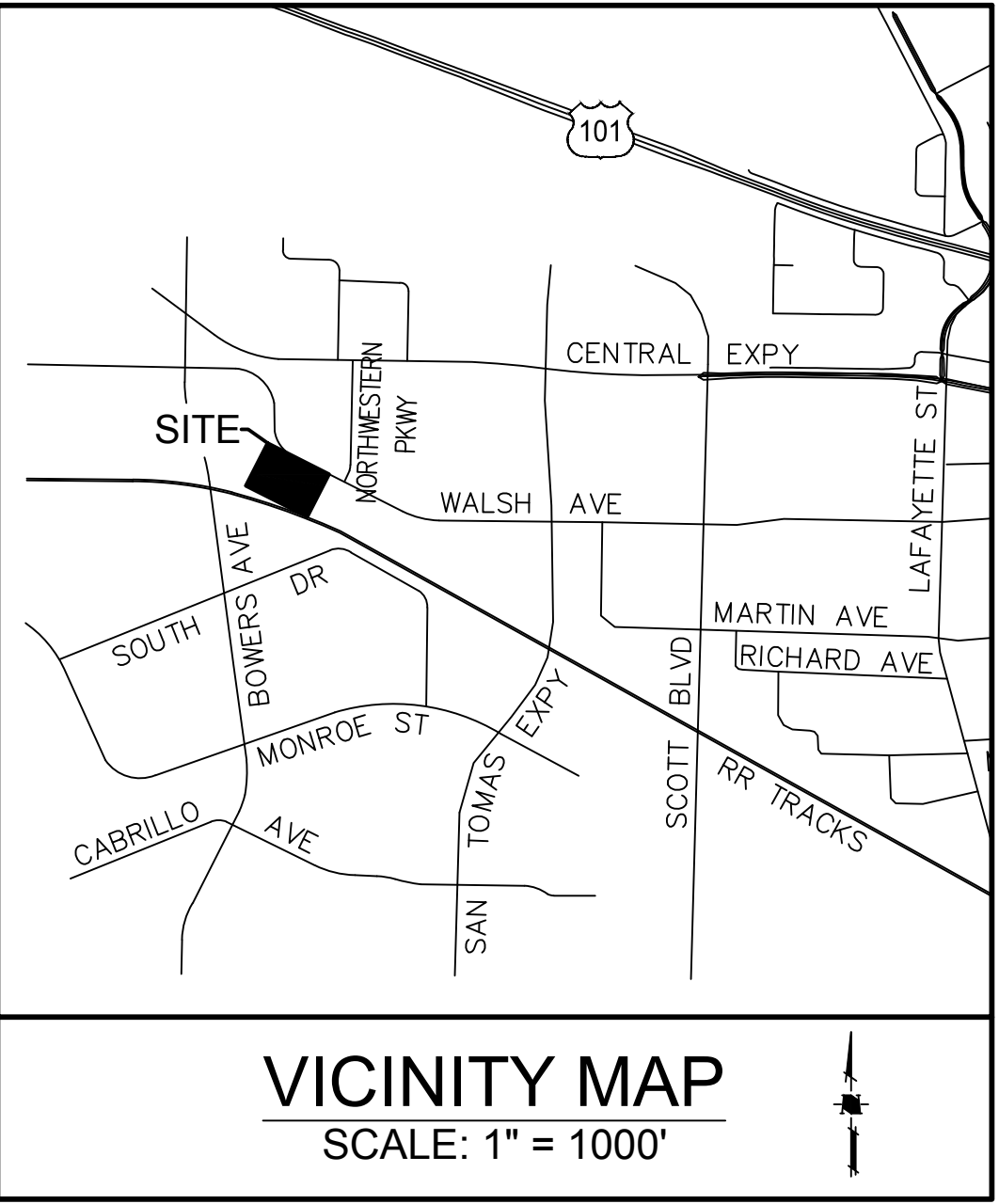
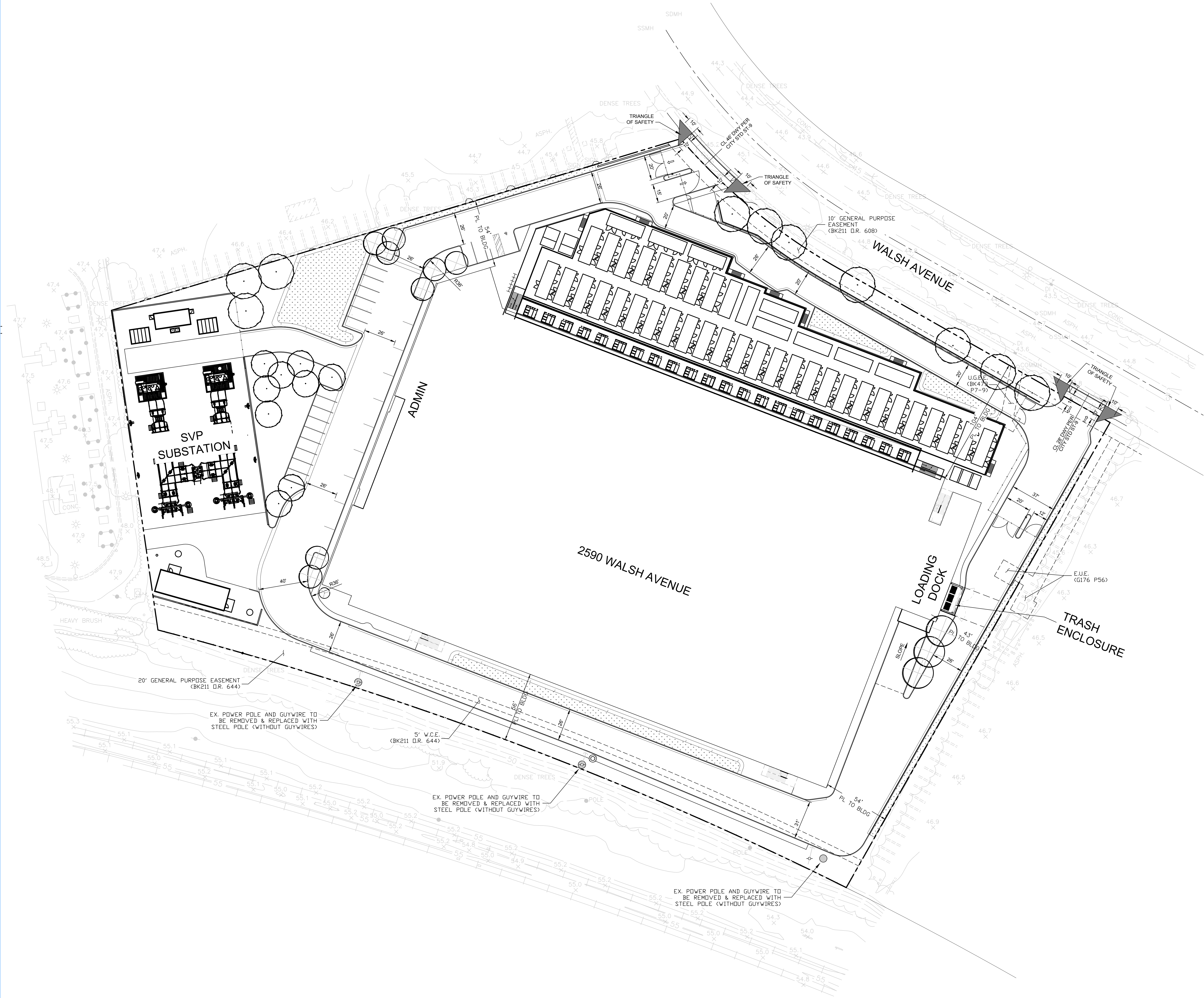
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LEGEND	PROPOSED	EXISTING
PROJECT BOUNDARY		
EASEMENT		
CURB AND GUTTER		
SIDEWALK		
VALLEY GUTTER		
CENTERLINE		
STANDARD CSC DRIVEWAY (PER STD DETAIL ST-9)		

NOTES

1. EXISTING EASEMENTS ARE LABELED ON SHEET C1.

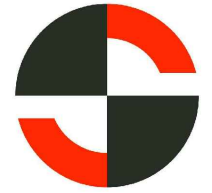
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2590 WALSH AVENUE
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SITE PLAN

C2

SCALE: AS NOTED

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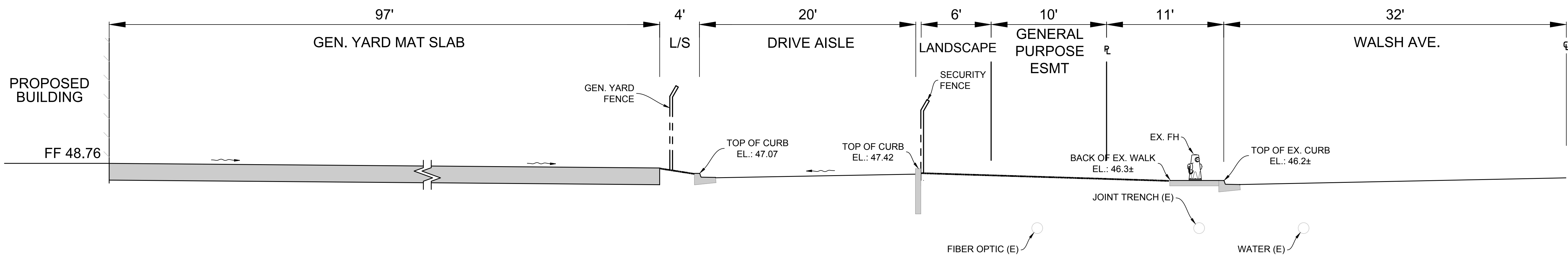
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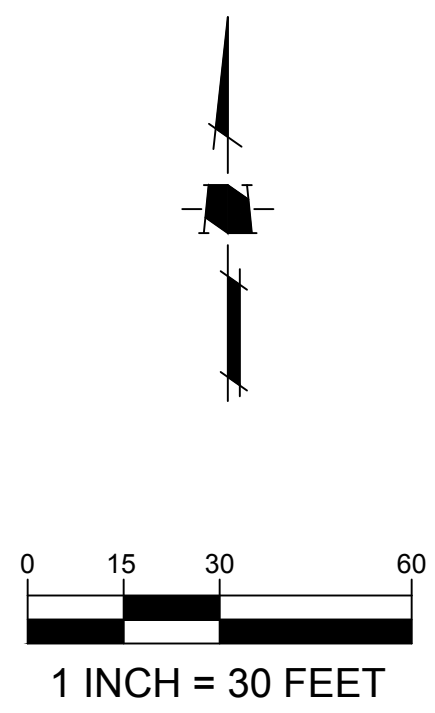
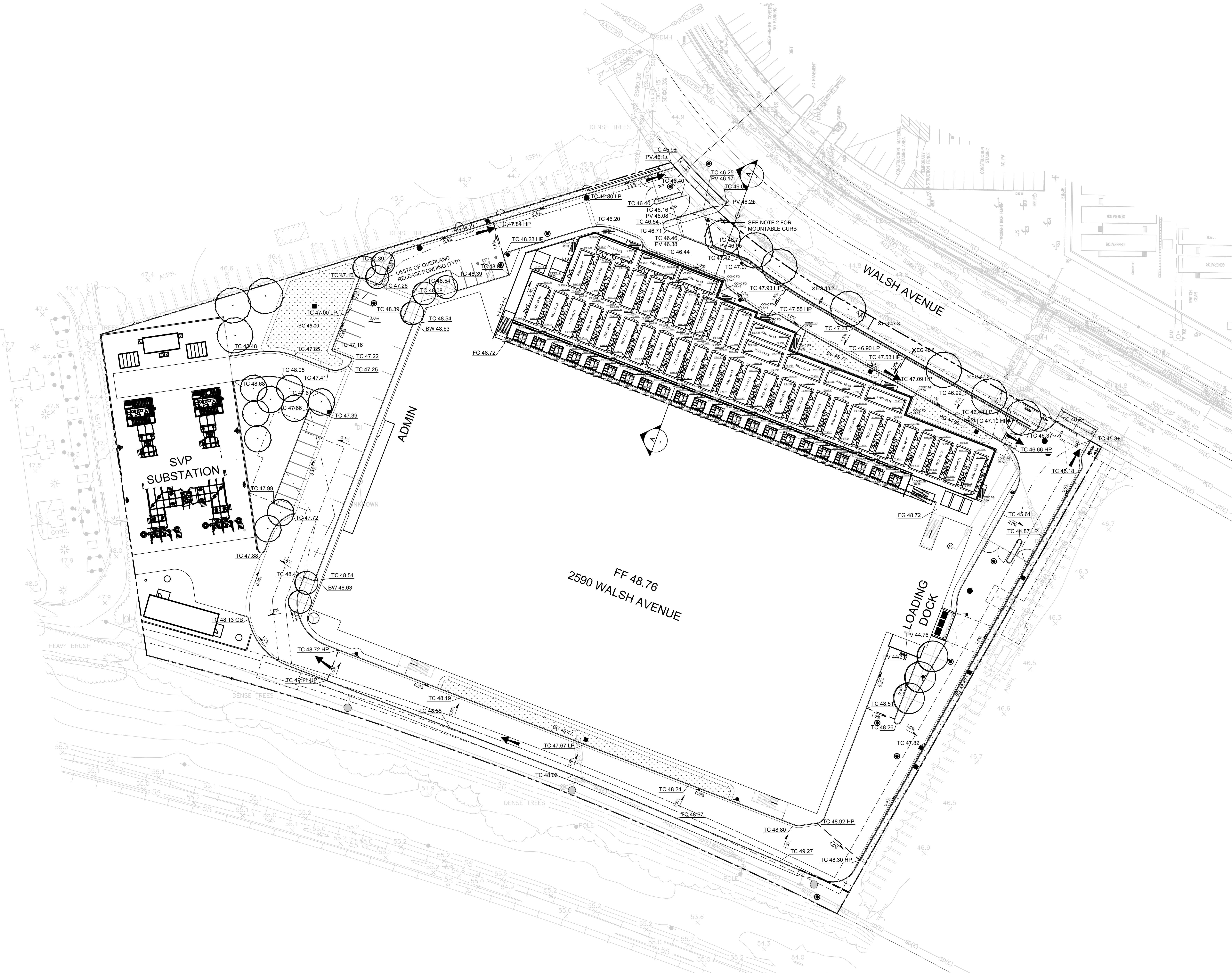
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LEGEND	PROPOSED	EXISTING
PROJECT BOUNDARY		
CURB AND GUTTER		
SIDEWALK		
DRIVEWAY		
GRADE BREAK		
CONCRETE DRAINAGE SWALE		
EASEMENT (SEE NOTE 1)		
VALLEY GUTTER		
OVERLAND RELEASE		
PONDING DEPTH		

- NOTES
- EXISTING EASEMENTS ARE LABELED ON SHEET C1.
 - SEE SHEET C6.1 FOR MOUNTABLE CURB FOR FIRE ACCESS ROAD DETAIL.
 - SEE SHEET C5 FOR CURB OPENING INTO BIOTRETENTION BASINS.



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GRADING AND DRAINAGE PLAN

C3

PUBLIC WATER SYSTEM NOTES

1. WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE PROJECT PLANS, AND TO THE CITY OF SANTA CLARA WATER AND SEWER UTILITIES STANDARD DRAWINGS AND SPECIFICATIONS. COPIES ARE AVAILABLE ON THE CITY'S WEBSITE.
2. INFORMATION ON MATERIALS PROPOSED TO BE USED IN CONSTRUCTING WATER SYSTEM FACILITIES SHALL BE SUBMITTED TO WATER AND SEWER UTILITIES FOR REVIEW AND APPROVAL PRIOR TO THE BEGINNING OF ANY CONSTRUCTION OF WATER FACILITIES.
3. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY WATER AND SEWER UTILITIES IN ATTENDANCE PRIOR TO ANY WORK BEING ALLOWED TO BEGIN ON THE PUBLIC WATER SYSTEM. CALL 615-2053 BETWEEN 7:00 AM AND 4:00 PM MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS. NOTIFY THE CITY WATER INSPECTOR A MINIMUM OF ONE WORKING DAY PRIOR TO REQUIRED INSPECTIONS.
4. WATER FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE APPROVED PLANS. ALL CHANGES MUST BE APPROVED BY THE WATER INSPECTOR PRIOR TO BEING CONSTRUCTED. A REVISED DRAWING MUST BE APPROVED BY THE ENGINEER.
5. CLEARANCES:
 - ONE FOOT MINIMUM VERTICAL CLEARANCE FOR OPEN TRENCH CONSTRUCTION BETWEEN WATER AND GRAVITY MAINS UNLESS OTHERWISE NOTED ON THE PLANS.
 - TWO FEET MINIMUM VERTICAL CLEARANCE FOR OPEN TRENCH CONSTRUCTION BETWEEN WATER AND RECYCLED WATER MAINS AND SERVICES AND OTHER FACILITIES UNLESS OTHERWISE NOTED ON THE PLANS.
 - FIVE FEET MINIMUM VERTICAL CLEARANCE FOR HORIZONTAL DIRECTION BORING CONSTRUCTION BETWEEN WATER AND RECYCLED WATER MAINS AND SERVICES AND OTHER FACILITIES UNLESS OTHERWISE NOTED ON THE PLANS.
 - TEN FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN WATER AND RECYCLED WATER MAINS AND SERVICES AND SANITARY MAINS AND SERVICES AND TREES.
 - FIVE FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN WATER AND STORM MAINS AND LATERALS AND OTHER GENERAL UTILITIES AND FACILITIES.
6. CONSTRUCTION OF WATER MAINS AND SERVICES CANNOT BEGIN UNTIL SITE IS AT SUB GRADE.
7. CITY OR CITY ASSIGNED CONTRACTOR WILL PERFORM ALL TAPS TO THE WATER MAIN. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE TAPPING SLEEVE AND VALVE, AND PREPARING THE SITE FOR CITY OR CITY ASSIGNED CONTRACTOR TO PERFORM TAP.
8. WATER MAINS SHALL BE AWWA C300, C305 DR 14 MINIMUM STANDARD PRESSURE CLASS 200 FOR POLYVINYL CHLORIDE (PVC) PRESSURE PIPE, AWWA C150, C151, C154 STANDARD PRESSURE CLASS 360 FOR DUCTILE IRON (DIP) PRESSURE PIPE, OR TYPE K COPPER AS SHOWN ON THE PLANS. RECYCLED WATER MAINS SHALL CONFORM TO CITY WATER MAIN STANDARDS WITH THE FOLLOWING EXCEPTIONS: RECYCLED WATER P.V.C. MAINS SHALL BE PURPLE AND LABELED RECYCLED WATER. DIP SHALL BE ENCASED IN PURPLE POLY WRAPO.
9. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS, FITTINGS AND DEADENDS USING MECHANICALLY RESTRAINED DEVICES IN ACCORDANCE WITH CITY REQUIREMENTS.
10. ALL PUBLIC WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF FOUR INCHES (4") OF SAND BEDDING UNDER PIPE AND 12" OF SAND BEDDING OVER TOP OF PIPE. SAND SHALL CONFORM TO WATER AND SEWER UTILITIES STANDARD DRAWING NUMBER 23. THE REMAINING TRENCH SHALL BE BACKFILLED AND COMPACTED PER CITY OF SANTA CLARA DEPARTMENT OF PUBLIC WORKS STANDARDS AND COMPACTED TO 95% RELATIVE DENSITY.
11. CONTRACTOR SHALL DISINFECT AND FLUSH ALL NEW AND REPAIRED PORTIONS OF THE PUBLIC WATER SYSTEM ACCORDING TO WATER AND SEWER UTILITIES SPECIFICATIONS. CONTRACTOR MUST COMPLY WITH THE CITY'S NON-POINT SOURCE CONTROL PROGRAM. THE INITIAL BACTERIOLOGICAL TEST SHALL BE PERFORMED BY THE CITY AT THE CITY'S COST. SUBSEQUENT TESTS REQUIRED DUE TO FAILED INITIAL BACTERIOLOGICAL SAMPLES SHALL BE PERFORMED BY THE CITY AT DEVELOPER'S EXPENSE.
12. PRESSURE TEST SHALL BE PERFORMED BY THE CONTRACTOR AT 200 PSI FOR A MINIMUM OF TWO HOURS.
13. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING A SET OF CURRENT, THOROUGH, AND ACCURATE AS-BUILT DRAWINGS AT THE PROJECT SITE. THEY SHALL INCLUDE CENTER TO CENTER DIMENSIONS BETWEEN FITTINGS, VALVES, SERVICES, DEADENDS, TIE-BACKS, CHANGES IN PIPE TYPE, ETC. AND SHALL INCLUDE A DIMENSION REFERENCE TO A TRACKABLE FEATURE ON THE EXISTING WATER SYSTEM. THE UPDATED AS-BUILT DRAWINGS SHALL BE AVAILABLE FOR THE INSPECTOR'S REVIEW AT ALL TIMES. THE PROJECT WILL NOT BE CONSIDERED FOR ACCEPTANCE NOR ANY METERS ALLOWED TO BE TURNED ON UNTIL THE AS-BUILT DRAWINGS ARE COMPLETED, TURNED IN TO THE INSPECTOR, VERIFIED, AND ACCEPTED.
14. ALL WATER USE SHALL BE METERED EXCEPT FOR USE IN DISINFECTION AND FLUSHING OF WATER MAINS.
15. NO WATER VALVES ON THE EXISTING SYSTEM NOR ANY NEW VALVE CONNECTED TO THE EXISTING SYSTEM SHALL BE OPENED OR CLOSED BY ANYONE EXCEPT AUTHORIZED WATER AND SEWER UTILITIES PERSONNEL.
16. MAINTAIN, SECURE, AND PROTECT ANY EXISTING WATER SYSTEM FACILITY IN PLACE UNTIL THE PROPOSED WATER SYSTEM IS COMPLETED AND ACTIVATED.
17. PARTS FROM ABANDONED CITY FACILITIES, INCLUDING METERS AND VALVES, SHALL BE RETURNED TO THE WATER AND SEWER UTILITIES INSPECTOR.
18. WATER AND SEWER UTILITIES WILL PLACE A HOLD ON THE FINAL INSPECTION ON ALL OR PART OF THE DEVELOPMENT UNTIL:
 - AN ACCURATE AND COMPLETE SET OF FIELD AS-BUILT DRAWINGS FOR THE PUBLIC WATER SYSTEM HAS BEEN SUBMITTED TO AND APPROVED BY THE WATER DEPARTMENT.
 - PUNCH LIST ITEMS HAVE BEEN CORRECTED.
 - ANY WATER OR PUBLIC UTILITY EASEMENTS REQUIRED FOR THE PROJECT ARE RECORDED WITH THE COUNTY.
19. CONTRACTOR SHALL SUBMIT AN ACCURATE SET OF RECORD DRAWINGS IN PDF AND AUTOCAD FORMAT TO WATER AND SEWER UTILITIES PRIOR TO FINAL ACCEPTANCE.

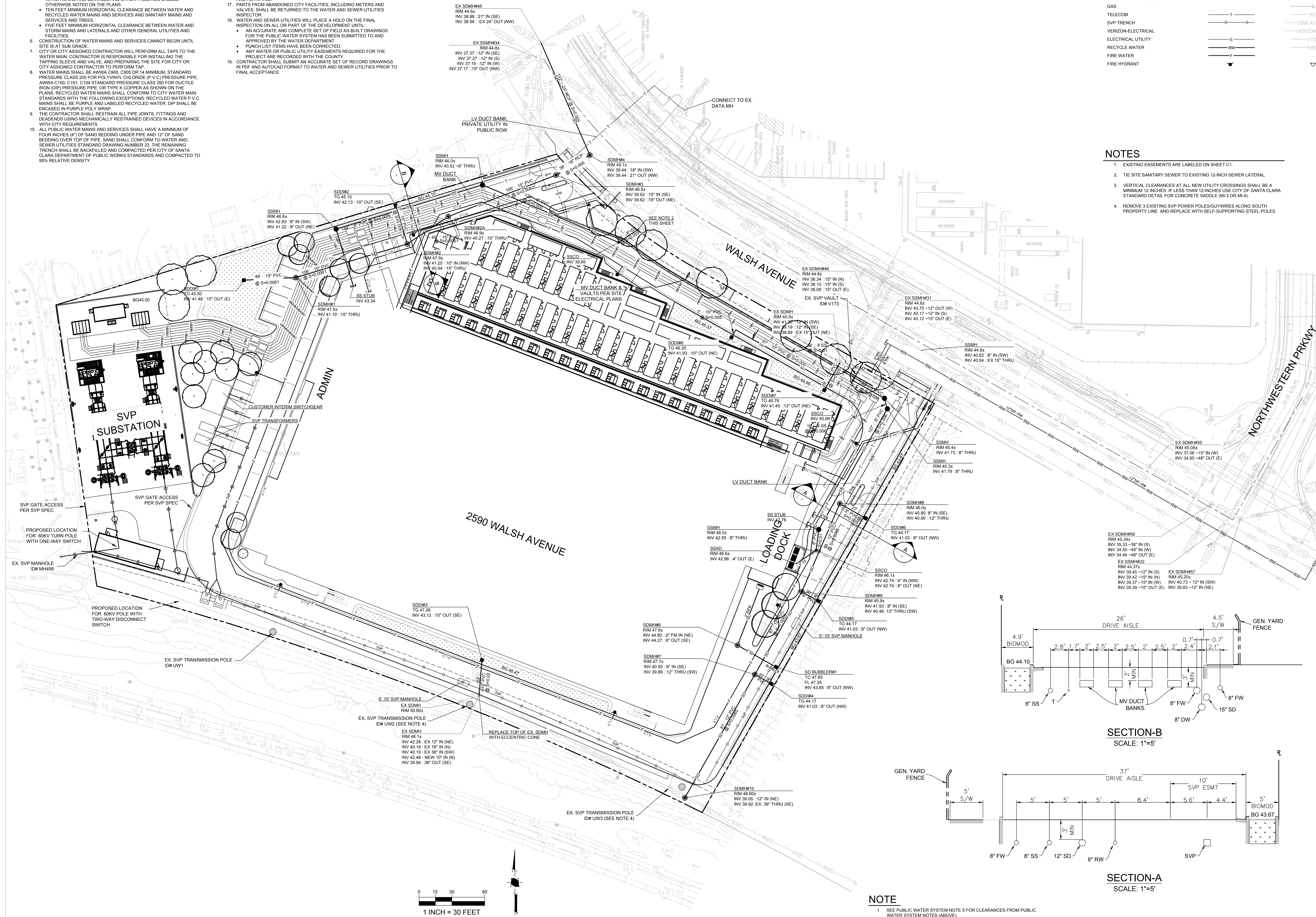
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LEGEND

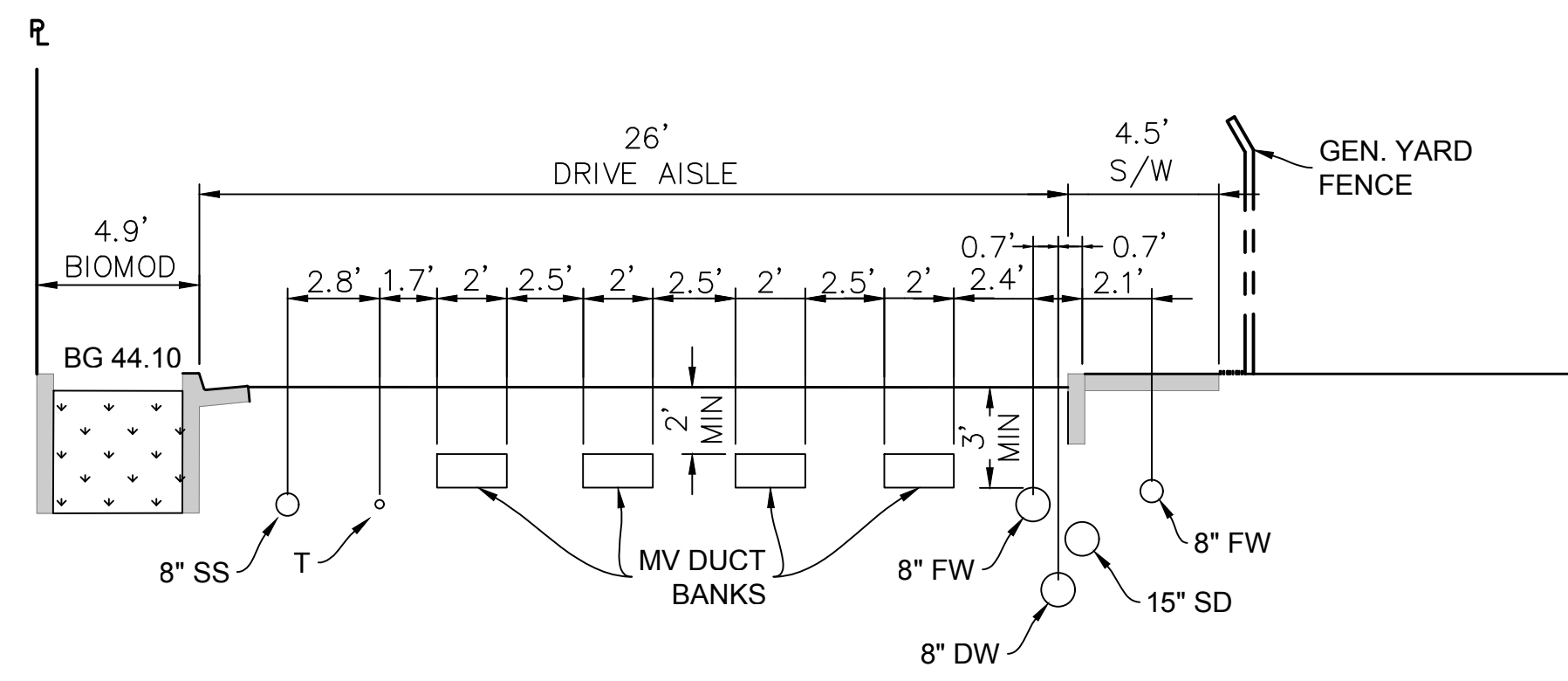
PROPOSED	EXISTING
PROJECT BOUNDARY	PROJECT BOUNDARY
STORM DRAIN MANHOLE	STORM DRAIN MANHOLE
SANITARY SEWER MANHOLE	SANITARY SEWER MANHOLE
CURB INLET	CURB INLET
CATCH BASIN/BUBBLER	CATCH BASIN/BUBBLER
FLOW DRAINAGE	FLOW DRAINAGE
EASEMENT	EASEMENT
CURB AND GUTTER	CURB AND GUTTER
SIDEWALK	SIDEWALK
VALLEY/GUTTER	VALLEY/GUTTER
CENTERLINE	CENTERLINE
SANITARY SEWER	SANITARY SEWER
STORM DRAIN LINE	STORM DRAIN LINE
DRIVEWAY	DRIVEWAY
GRADE BREAK	GRADE BREAK
CONCRETE DRAINAGE SWALE	CONCRETE DRAINAGE SWALE
SCREEN WALL	SCREEN WALL
DOMESTIC WATER (DW)	DOMESTIC WATER (DW)
GAS	GAS
TELECOM	TELECOM
SVP TRENCH	SVP TRENCH
VERIZON-ELECTRICAL	VERIZON-ELECTRICAL
ELECTRICAL UTILITY	ELECTRICAL UTILITY
RECYCLE WATER	RECYCLE WATER
FIRE WATER	FIRE WATER
FIRE HYDRANT	FIRE HYDRANT

NOTES

1. EXISTING EASEMENTS ARE LABELED ON SHEET C1.
2. THE SITE SANITARY SEWER TO EXISTING 12-INCH SEWER LATERAL.
3. VERTICAL CLEARANCES AT ALL NEW UTILITY CROSSINGS SHALL BE A MINIMUM 12 INCHES. IF LESS THAN 12 INCHES USE CITY OF SANTA CLARA STANDARD DETAIL FOR CONCRETE SADDLE (MI-3 OR MI-4).
4. REMOVE EXISTING SVP POWER POLES/GUYWIRES ALONG SOUTH PROPERTY LINE AND REPLACE WITH SELF-SUPPORTING STEEL POLES.

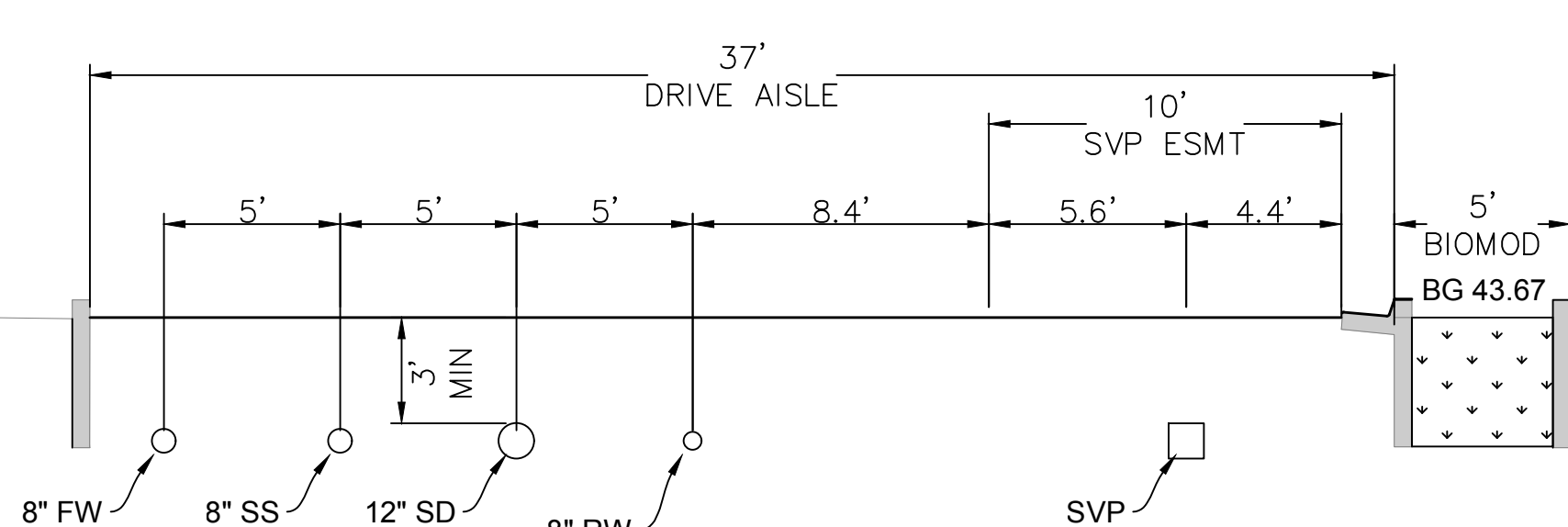
SECTION-B

SCALE: 1"=5'



SECTION-A

SCALE: 1"=5'



NOTE

1. SEE PUBLIC WATER SYSTEM NOTE 5 FOR CLEARANCES FROM PUBLIC WATER SYSTEM NOTES (ABOVE).

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VANTAGE CA31

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UTILITY PLAN

C4

SCALE: AS NOTED

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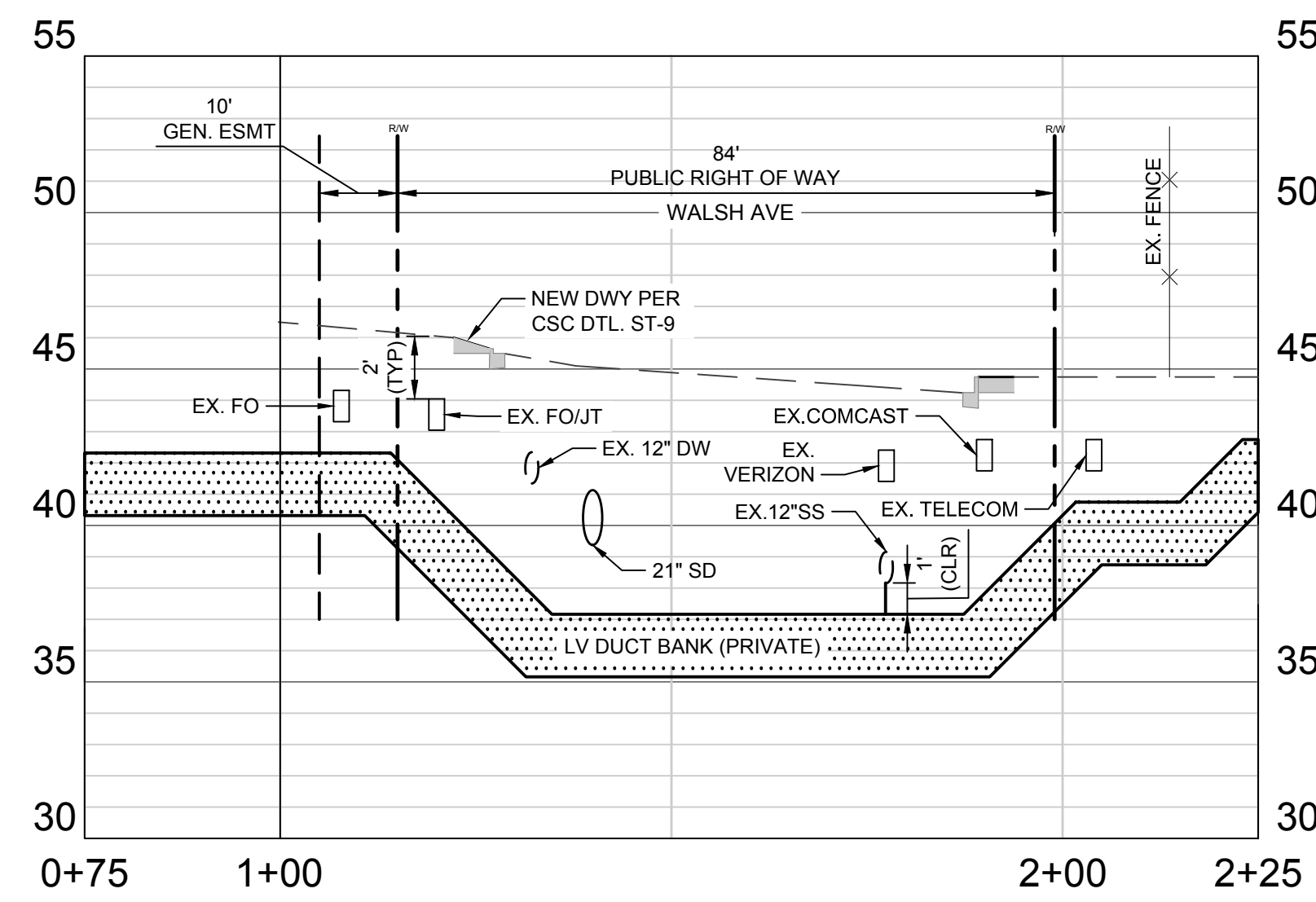
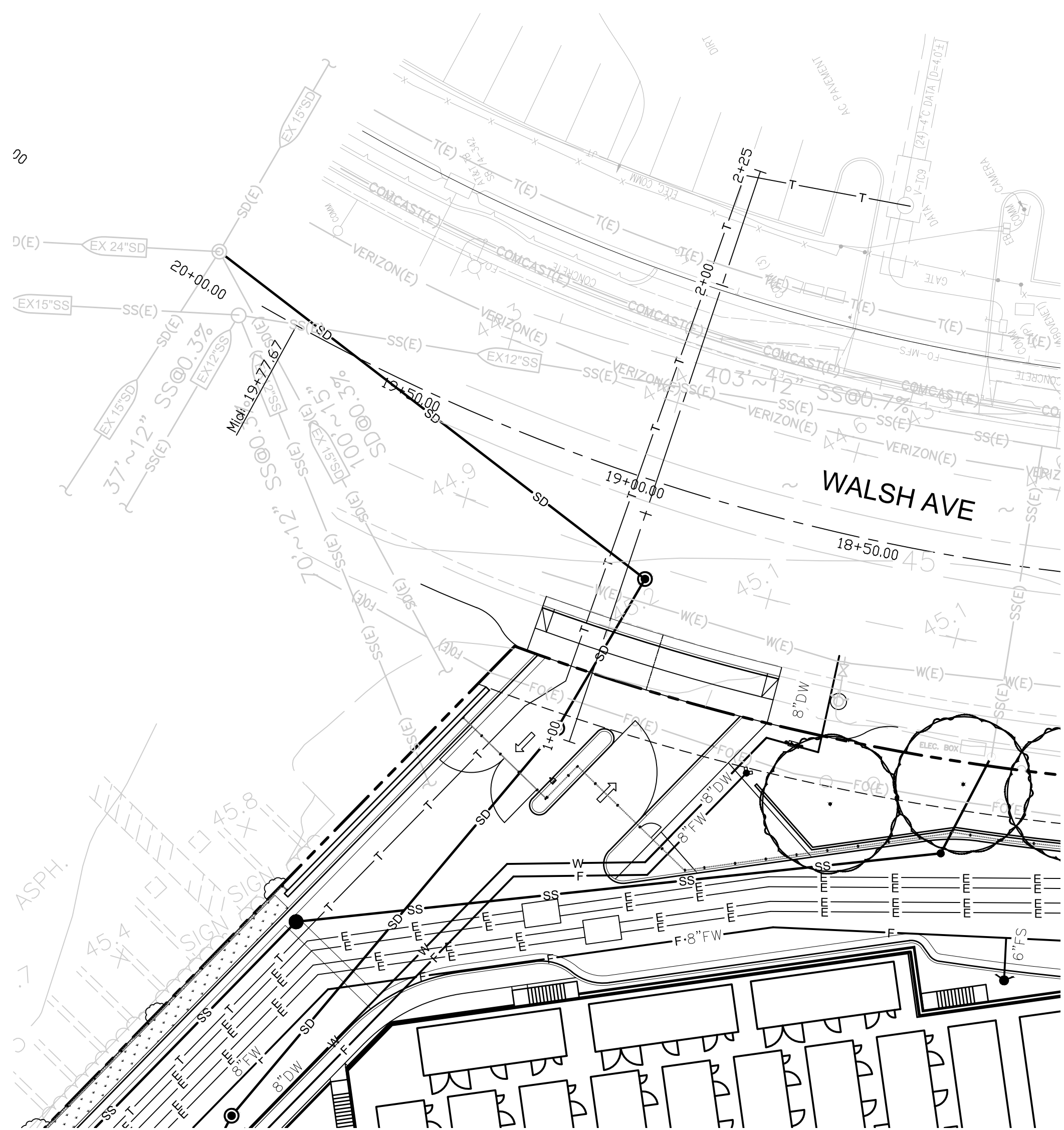
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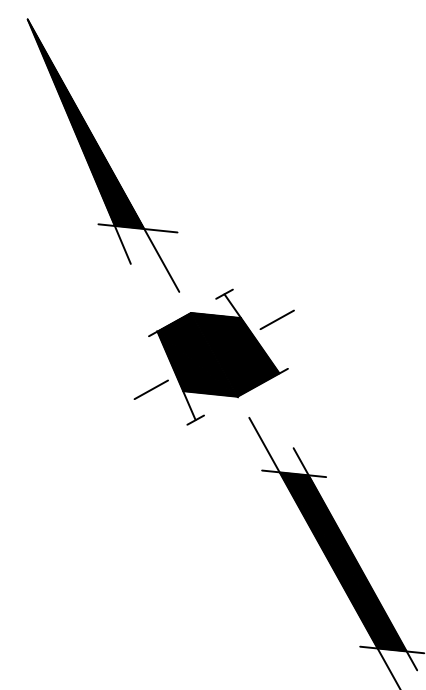
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VERTICAL=1"=5'

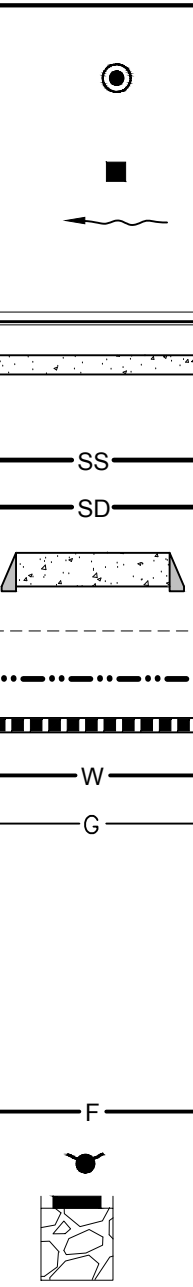


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1 INCH = 20 FEET

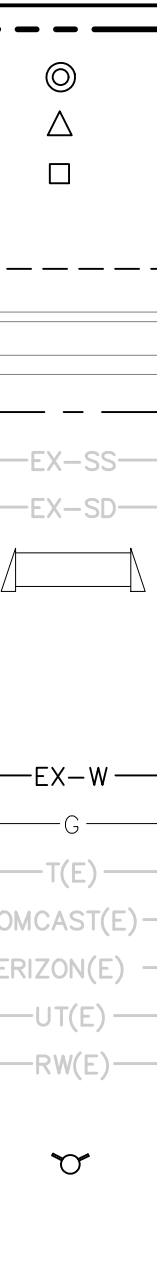
LEGEND

PROJECT BOUNDARY
STORM DRAIN MANHOLE
CURB INLET
CATCH BASIN
FLOW DRAINAGE
EASEMENT
CURB AND GUTTER
SIDEWALK
CENTERLINE
SANITARY SEWER
STORM DRAIN LINE
DRIVEWAY
GRADE BREAK
CONCRETE DRAINAGE SWALE
SCREEN WALL
WATER MAIN
GAS
TELECOM
COMCAST-ELECTRICAL
VERIZON-ELECTRICAL
ELECTRICAL UTILITY
RECYCLE WATER
FIRE WATER
FIRE WATER HYDRANT
CURB OPENING
(SEE DETAIL 3 SHEET C5A)

PROPOSED



EXISTING



NOTES

- EXISTING EASEMENTS ARE LABELED ON SHEET C1.
- ALL EXISTING UTILITIES SHOWN ARE FROM RECORD DRAWINGS AND SHALL BE POTHOLED TO VERIFIED DEPTH AT ALL CROSSING.

OWNER

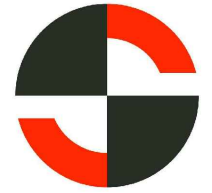


ARCHITECT

**SHEEHAN
NAGLE
HARTRAY
ARCHITECTS**

SHEEHAN NAGLE HARTRAY ARCHITECTS
130 East Randolph Street, Suite 3100
CHICAGO, IL 60601

MEP ENGINEER



**Southland
Industries**

33225 Western Ave.
Union City, CA 94587
510.477.3300



STRUCTURAL ENGINEER

PEOPLES ASSOCIATES

STRUCTURAL ENGINEERS
408-957-9220 www.pase.com
San Jose, California Pleasanton, California

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(408) 487-2200
HMHca.com



REED ASSOCIATES
UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N ZEEB RD
ANN ARBOR MI 48106-1500

PROGRESS SET
NOT FOR CONSTRUCTION

D	Issued for PCC Review	10-25-2021
C	Issued for PCC Review	09-30-2021
Z	Issued for 100% DD	08-25-2021
B	Issued for PCC Review	08-11-2021
I	Issued for 100% SD	07-16-2021
A	Issued for PCC Review	05-10-2021

No.	Description	Date
-----	-------------	------

VANTAGE CA31

2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

LOW VOLTAGE DUCT BANK (PRIVATE)
CROSS SECTIONS

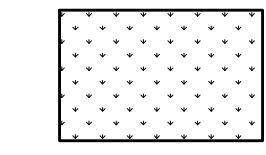
C4.1

SCALE: AS NOTED

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**Per Chapter 2.3 of the C3 Stormwater Handbook Roadway projects that add new sidewalk along an existing roadway are exempt from Provision C.3.c of the Municipal Stormwater

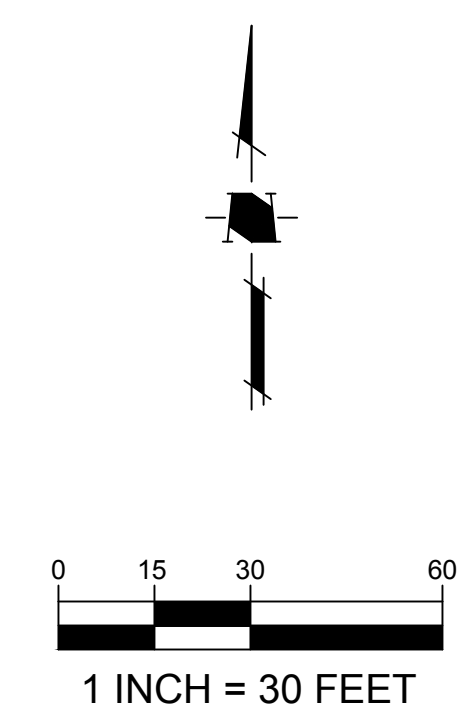
LID TREATMENT DRAINAGE AREA
(SEE TCM SUMMARY TABLE THIS
SHEET AND SIZING CALCULATIONS
ON SHEET 5B)



BIORETENTION AREA



1. EXISTING EASEMENTS ARE LABELED ON SHEET C1.



OWNER

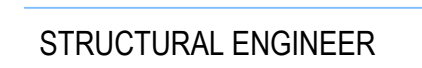


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CHICAGO, IL 60601

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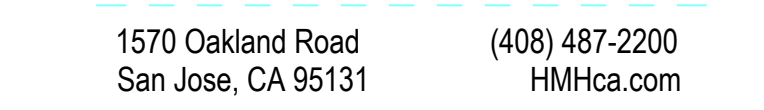


33225 Western Ave.
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VANTAGE CA31
2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

STORMWATER CONTROL PLAN

C5

SCALE: AS NOTED

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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 2-3 DAYS, JUL AND REPAIR AND/OR 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 REPLIUED 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 =	1		
A =	30944	s.f.	
Impervious Area =	29405	s.f.	% Imperviousness = 95.03%
MAPage =	14	Correction Factor =	1.0072
MAPage =	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 not graded/compacted? NO Yes/No			
If no, and the soil will be compacted during site preparation and grading, the soils infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)			
Modified Soil Type:	CLAY		
S =	1.003%		
UBS Volume for 1% Slope (UBS1%) =	0.56158215	inches (Use Figure B-2)	
UBS Volume for 15% Slope (UBS15%) =	0.5850795	inches (Use Figure B-5)	
UBS Volume for X% Slope (UBSX%) = 0.56158215 inches (Corrected Slope for the site)			
Adjusted UBS = Correction Factor (Step 2) x UBSx% (Step 5)			
Adjusted UBS =	0.5656223	inches	
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1ft/12inch			
Design Volume =	1,458.65	ft ³	
COMBO FLOW & VOLUME BIORETENTION CALCULATION			
Total Drainage Area =	30,944	sq. ft.	
Impervious Area =	29,405	sq. ft.	
Pervious Area =	1,539	sq. ft.	
Equivalent Impervious Area =	154	sq. ft.	Total Equivalent Impervious = 29,559 sq. ft.
Rainfall Intensity =	0.2	in/hr	
Duration =	Adjusted UBS (Step 6) / Rainfall Intensity		
Duration =	2.821115	hrs	
Estimate the Surface Area =	674	sq. ft.	(Typically start with Total Impervious x 0.03)
Volume of Treated Runoff =	794.227	cu ft.	
Volume in Ponding Area =	664.3234	cu ft.	
Depth of Ponding =	0.985643	ft.	
Depth of Ponding =	11.8	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 bioretention of flow through planters.			

SIZING FOR VOLUME BASED TREATMENT			
DMA =	6		
A =	24186	s.f.	
Impervious Area =	23137	s.f.	
		% Imperviousness =	95.66%
MAPaite =	14	Correction Factor =	1.0072
MAPage =	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 not graded/compacted?			NO Yes/No
If no, and the soil will be compacted during site preparation and grading, the soils infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)			
Modified Soil Type:	CLAY		
S =	1.003%		
UBS Volume for 1% Slope (UBS1%) = 0.58355462 inches (Use Figure B-2)			
UBS Volume for 15% Slope (UBS15%) = 0.86969834 inches (Use Figure B-5)			
UBS Volume for X% Slope (UBSX%) = 0.63555462 inches (Corrected Slope for the site)			
Adjusted UBS = Correction Factor (Step 2) x UBSx% (Step 5)			
Adjusted UBS =	0.567609	inches	
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1ft/12inch			
Design Volume =	1,144.02	ft ³	
COMBO LOW & VOLUME BIORETENTION CALCULATION			
Total Drainage Area =	24,186	sq. ft.	
Impervious Area =	23,137	sq. ft.	
Pervious Area =	1,049	sq. ft.	
Equivalent Impervious Area =	105	sq. ft.	
Total Equivalent Impervious =		23,242	sq. ft.
Rainfall Intensity =	0.2	in/hr	
Duration = Adjusted UBS (Step 6) / Rainfall Intensity			
Duration =	2.838048	hrs	
Estimate the Surface Area =		568	sq. ft.
Volume of Treated Runoff =		671.67061	cu. ft.
Volume in Ponding Area =		472.34526	cu. ft.
Depth of Ponding =		0.8315938	ft.
Depth of Ponding =		10	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 bioretention of flow through planters.			

SIZING FOR VOLUME BASED TREATMENT			
DMA = 3			
A = 76865 s.f			
Impervious Area = 66580 s.f	% Imperviousness = 86.62%		
MAPaite = 14	Correction Factor = 1.0072		
MAPage = 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 not graded/compacted? NO Yes/No			
If no, and the soil will be compacted during site preparation and grading, the soils infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)			
Modified Soil Type: CLAY			
S = 1.00%			
UBS Volume for 1% Slope (UBS1%) = 0.53552013 inches (Use Figure B-2)			
UBS Volume for 15% Slope (UBS15%) = 0.55985818 inches (Use Figure B-5)			
UBS Volume for X% Slope (UBSX%) = 0.53552013 inches (Corrected Slope for the site)			
Adjusted UBS = Correction Factor (Step 2) x UBSx% (Step 5)			
Adjusted UBS = 0.5393728 inches			
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1ft/12inch			
Design Volume = 3,454.91 ft ³			
COMBO FLOW & VOLUME BIORETENTION CALCULATION			
Total Drainage Area =	76,865 sq. ft.		
Impervious Area =	66,580 sq. ft.		
Pervious Area =	10,285 sq. ft.		
Equivalent Impervious Area =	1,029 sq. ft.	Total Equivalent Impervious =	67,609 sq. ft.
Rainfall Intensity =	0.2 in/hr		
Duration =	Adjusted UBS (Step 6) / Rainfall Intensity		
Duration =	2.69684 hrs		
Estimate the Surface Area =	2087 sq. ft.	(Typically start with Total Impervious x 0.03)	
Volume of Total Runoff =	2345.148 cu. ft.		
Volume in Ponding Area =	1109.7359 cu. ft.		
Depth of Ponding =	0.5317487 ft.	Depth of Ponding = 6.4	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 bioretention of flow through planters.			

SIZING FOR VOLUME BASED TREATMENT			
DMA =	6		
A =	27340	s.f.	
Impervious Area =	26203	s.f.	
		% Imperviousness =	95.84%
MAPsite =	14	Correction Factor =	1.0072
MAPage =	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 not graded/compacted? NO Yes/No			
If no, and the soil will be compacted during site preparation and grading, the soils infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (eg. Silt Loam to Clay)			
Modified Soil Type:	CLAY		
S =	1.00%		
UBS Volume for 1% Slope (UBS1%) = 0.5641079 inches (Use Figure B-2) UBS Volume for 15% Slope (UBS15%) = 0.5875237 inches (Use Figure B-5)			
UBS Volume for X% Slope (UBSX%) = 0.5641079 inches (Corrected Slope for the site)			
Adjusted UBS = Correction Factor (Step 2) x UBSX% (Step 5)			
Adjusted UBS = 0.5681662 inches			
Design Volume = Adjusted UBS (Step 6) x Drainage Area (Step 1) x 1/12/inch			
Design Volume = 1,294.47 cu ft			
COMBO FLOW & VOLUME BIORETENTION CALCULATION			
Total Drainage Area =	27,340 sq. ft.		
Impervious Area =	26,203 sq. ft.		
Pervious Area =	1,137 sq. ft.		
Equivalent Impervious Area =	114 sq. ft.		Total Equivalent Impervious =
			26,317 sq. ft.
Rainfall Intensity =	0.2 in/hr		
Duration =	Adjusted UBS (Step 6) / Rainfall Intensity		
	Duration = 0.284312 hrs		
Estimate the Surface Area =	641 sq. ft.		(Typically start with Total Impervious x 0.03)
Volume of Treated Surface =	758.73865 cu. ft.		
Volume in Ponding Area =	535.73341 cu. ft.		
Depth of Ponding =	0.8357779 ft.		
		Depth of Ponding = 10	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 bioretention of flow through planters.			



REED ASSOCIATES
LANDSCAPE ARCHITECTURE
475 SOUTH FAIRFAX STREET
SUNNYVALE, CALIFORNIA 94088
PHONE: 408-401-9029

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VANTAGE CA31
2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

STORMWATER CALCULATIONS

C5B

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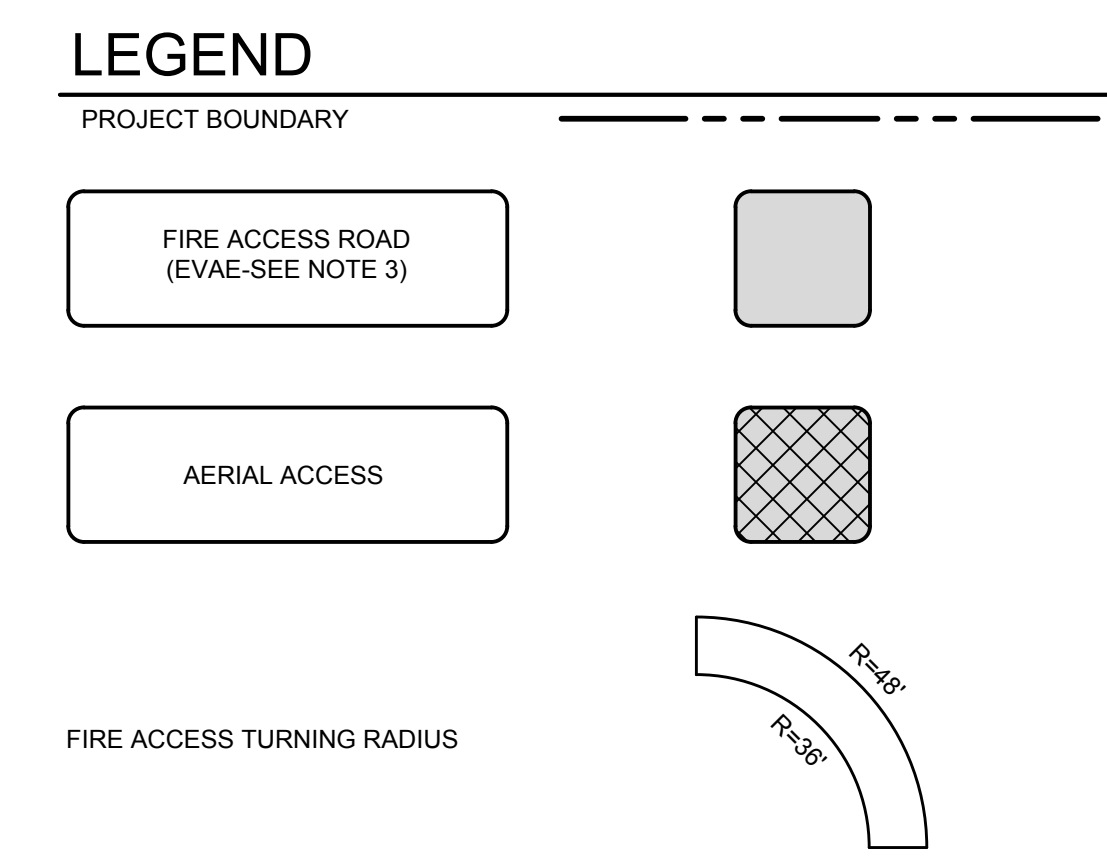
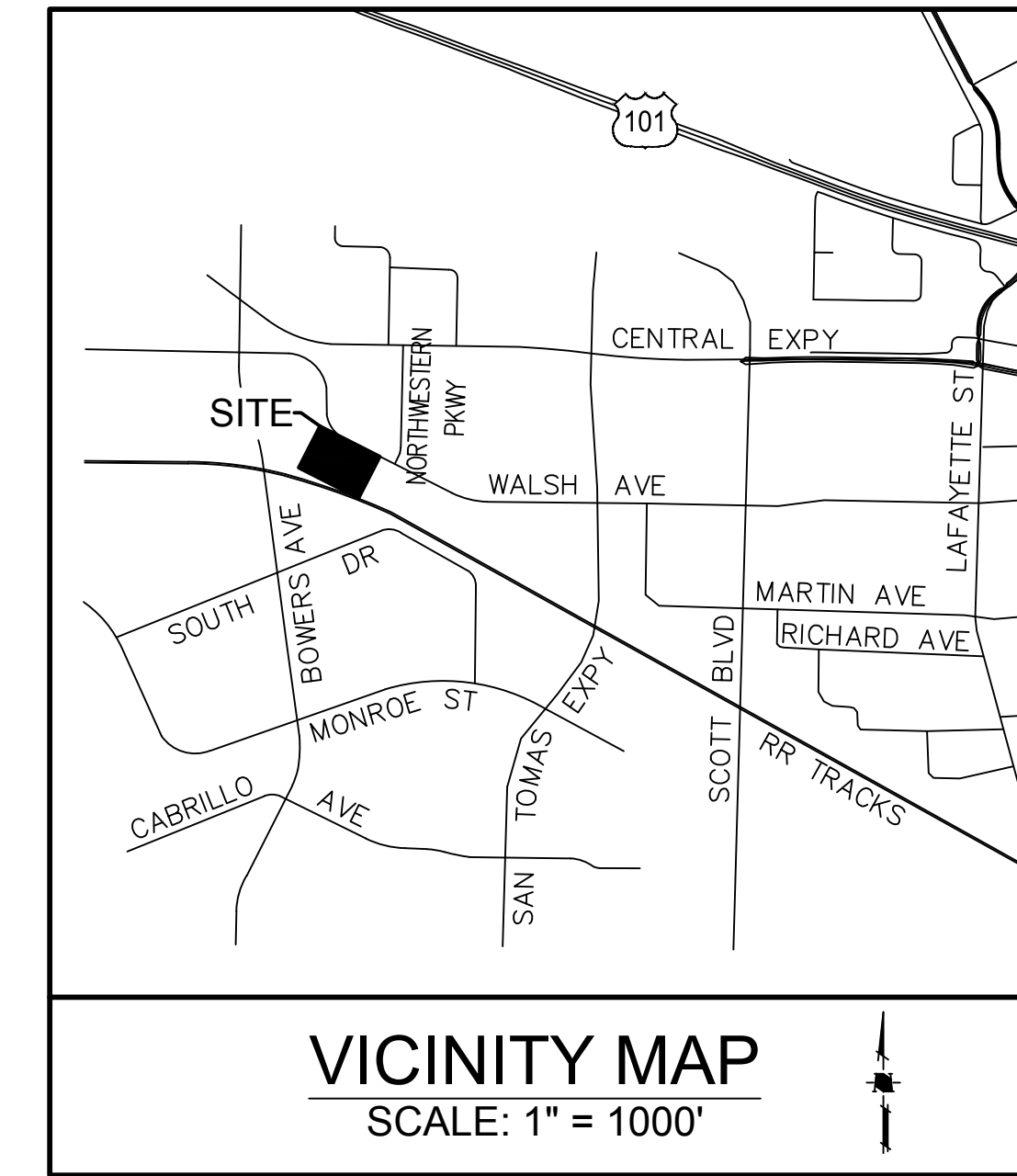
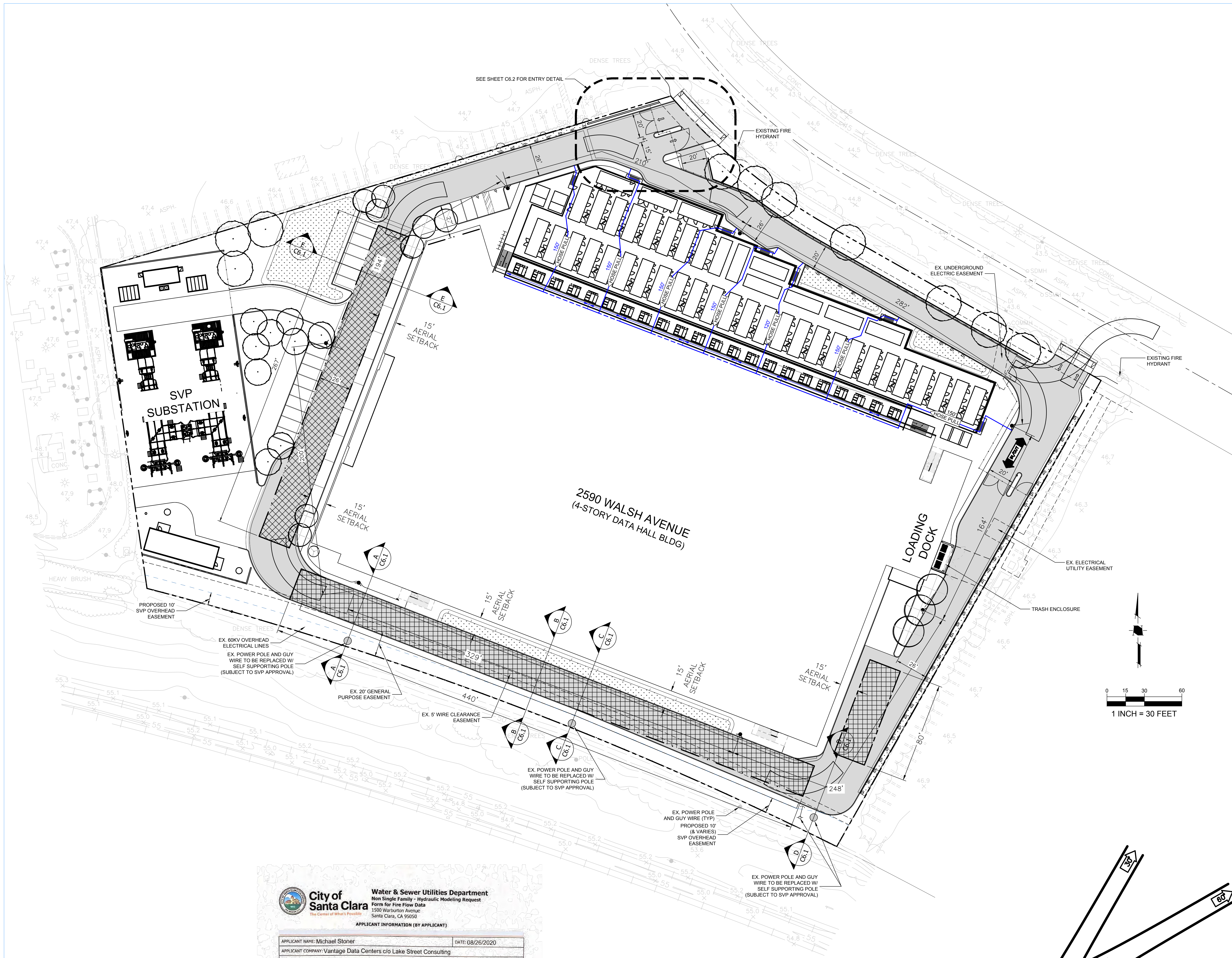
E

D

C

B

A



- NOTES**
- SECURITY GATES SHALL BE EQUIPPED WITH OPTICOM SWITCH OR APPROVED ALTERNATIVE FOR FIRE DEPARTMENT ACCESS.
 - ALL EVAE'S ARE FUTURE AND SHALL BE DEDICATED BY SEPARATE INSTRUMENT.
 - ALL TREES ALONG AERIAL ACCESS ROADWAY(S) SHALL HAVE MATURE HEIGHTS OF NOT GREATER THAN 30 FEET.
 - PAINT ALL CURBS RED ALONG EMERGENCY VEHICLE ACCESS EASEMENT (EVAE) LINES.
 - REPLACE EXISTING SVP POWER POLES + GUY WIRES WITH SELF SUPPORTING POLES.
 - AERIAL ACCESS PROVIDED:
 - EXTERIOR PERIMETER: 1,558 LF
 - AERIAL ACCESS PROVIDED: 784 LF
 - COVERAGE: 92%

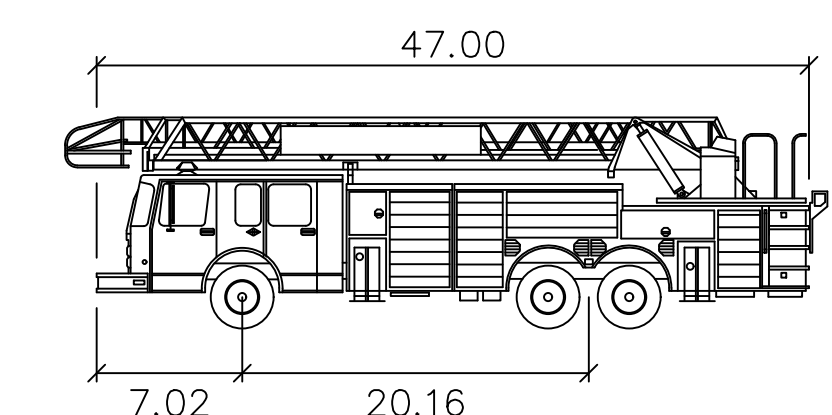
	AREA (SF)	CONSTRUCTION TYPE	OCCUPANCY GROUP	NUMBER OF STORIES	HEIGHT (FT)
BUILDING 1	468,170	IB	NON-SEPARATED MIXED OCCUPANCY (B, S-2 & A-2)	4	87'-6"

PER CFC 2019 APPENDIX B

SECTION B104.1	
TOTAL FLOOR AREA (SF)	468,170
TABLE B105.1(2)	
TOTAL FIRE-FLOW (GPM)	6,000
TABLE B105.2	
REDUCED FIRE-FLOW (GPM)	1,500

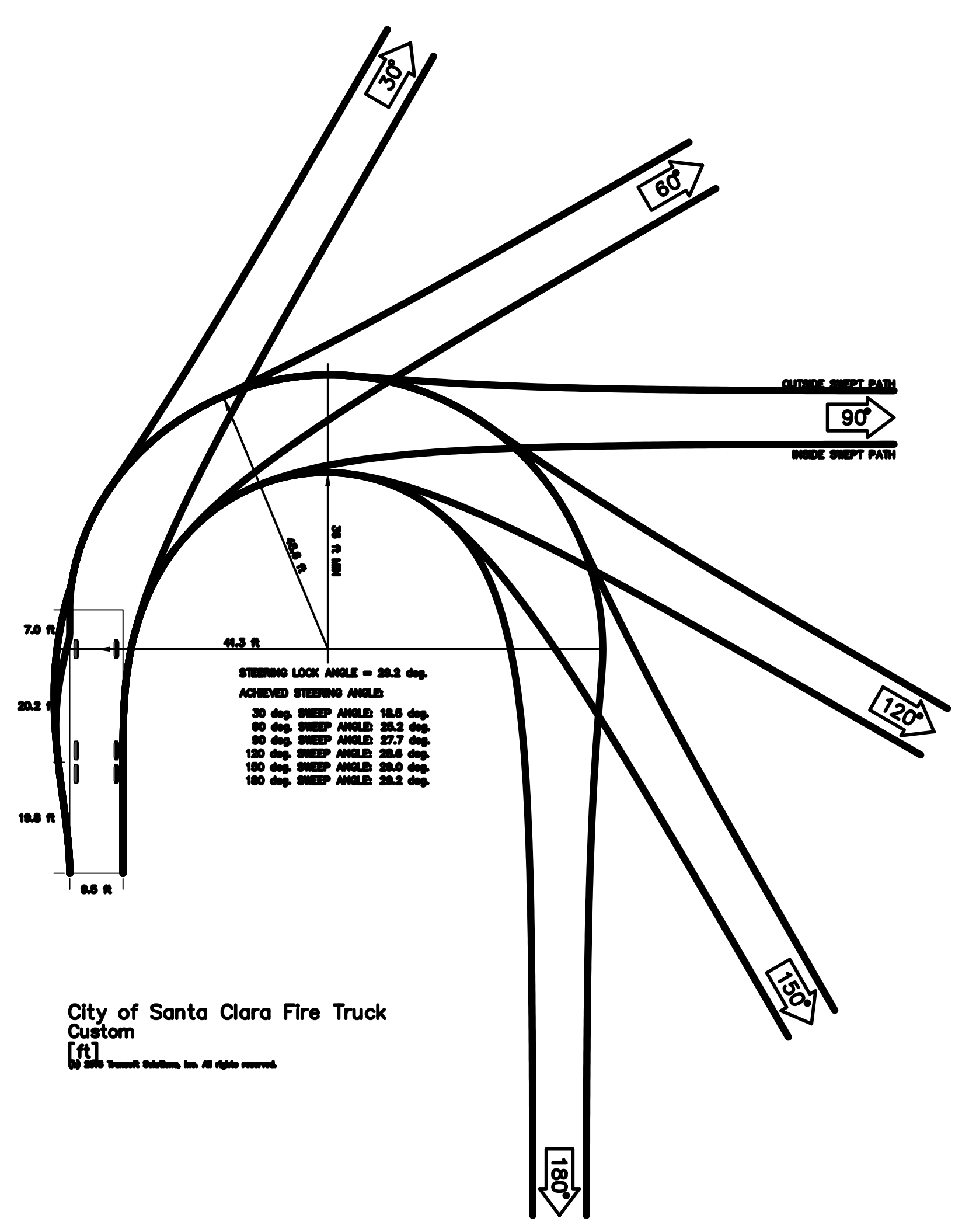
PER CFC 2019 APPENDIX, TABLE C102.1

MINIMUM NUMBER OF HYDRANTS	6
AVERAGE SPACING BETWEEN HYDRANTS (FT)	250
MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO EXTERIOR WALL OF THE BUILDING (FT)	150



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 : 7.02 s
- Steering Angle : 29.2°



City of Santa Clara
Water & Sewer Utilities Department
Non Single Family - Hydraulic Modeling Request
Form for Fire Flow Data
1550 Warrenton Avenue
Santa Clara, CA 95050

APPLICANT INFORMATION (BY APPLICANT)

APPLICANT NAME: Michael Stoner DATE: 08/26/2020
APPLICANT COMPANY: Vantage Data Centers c/o Lake Street Consulting
APPLICANT ADDRESS: 2820 Northwestern Parkway
APPLICANT PHONE NO.: (650) 776-8553 ALTERNATE PHONE NO.:
APPLICANT EMAIL: michael@lakesideventures.com

PROJECT INFORMATION (BY APPLICANT)

PROJECT NAME: Vantage Data Center
PROJECT ADDRESS: 2590 Walsh Avenue
PROJECT DESCRIPTION: Data center of TBD s.f.

APR: 210-28-112 BUILDING TYPE (CALIFORNIA BUILDING CODE):
NO. OF HYDRANTS TO BE FLOWED: 1
FLOW HYDRANT (S) NO.: 2353 STATIC & RESIDUAL HYDRANT (S) NO.: 2352, 3447

PROJECT MODELING DATA (CITY TO PROVIDE TO APPLICANT)

FLOW HYDRANT (S) NO.: 2353	STATIC & RESIDUAL HYDRANT (S) NO.: 2352, 3447
RESIDUAL PRESSURE (PSI): 50.0	STATIC PRESSURE (PSI): 50.0
AVAILABLE FLOW AT 20 PSI (GPM): 2,000	TEST FLOW (GPM): 2,000

APPROVED BY MODELING ENGINEER: YES NO SIGNATURE: DATE: 10/20/20
APPROVED BY UTILITIES ENGINEER: YES NO SIGNATURE: DATE: 10/20/20

Notes:
1. The fire flow request by applicant will be analyzed using the City's hydraulic modeling program. This will determine the projected available fire flow capacity and residual pressure from public fire hydrants.
2. Results are typically available 2-3 weeks after the application has been submitted.
3. The hydraulic modeling fee for a single family home fire flow request is \$1,400. Email Water@cityofsc.org for instructions on submitting payment.
4. Upon proof of payment, email application to Water@cityofsc.org or deliver in person to the Water & Sewer Utilities Department at the City.
5. Upon submittal of form, City will provide applicant with an utility map to that applicant can identify desired hydrant and hydrant to be flowed.

OWNER



ARCHITECT
**SHEEHAN
NAGLE
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PROGRESS SET
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No.	Description	Date
D	Issued for PCC Review	10-25-2021
C	Issued for PCC Review	09-30-2021
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B	Issued for PCC Review	08-11-2021
I	Issued for 100% SD	07-16-2021
A	Issued for PCC Review	05-10-2021

VANTAGE CA31
2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

FIRE ACCESS & HYDRANT PLAN

C6.0

SCALE: AS NOTED

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6

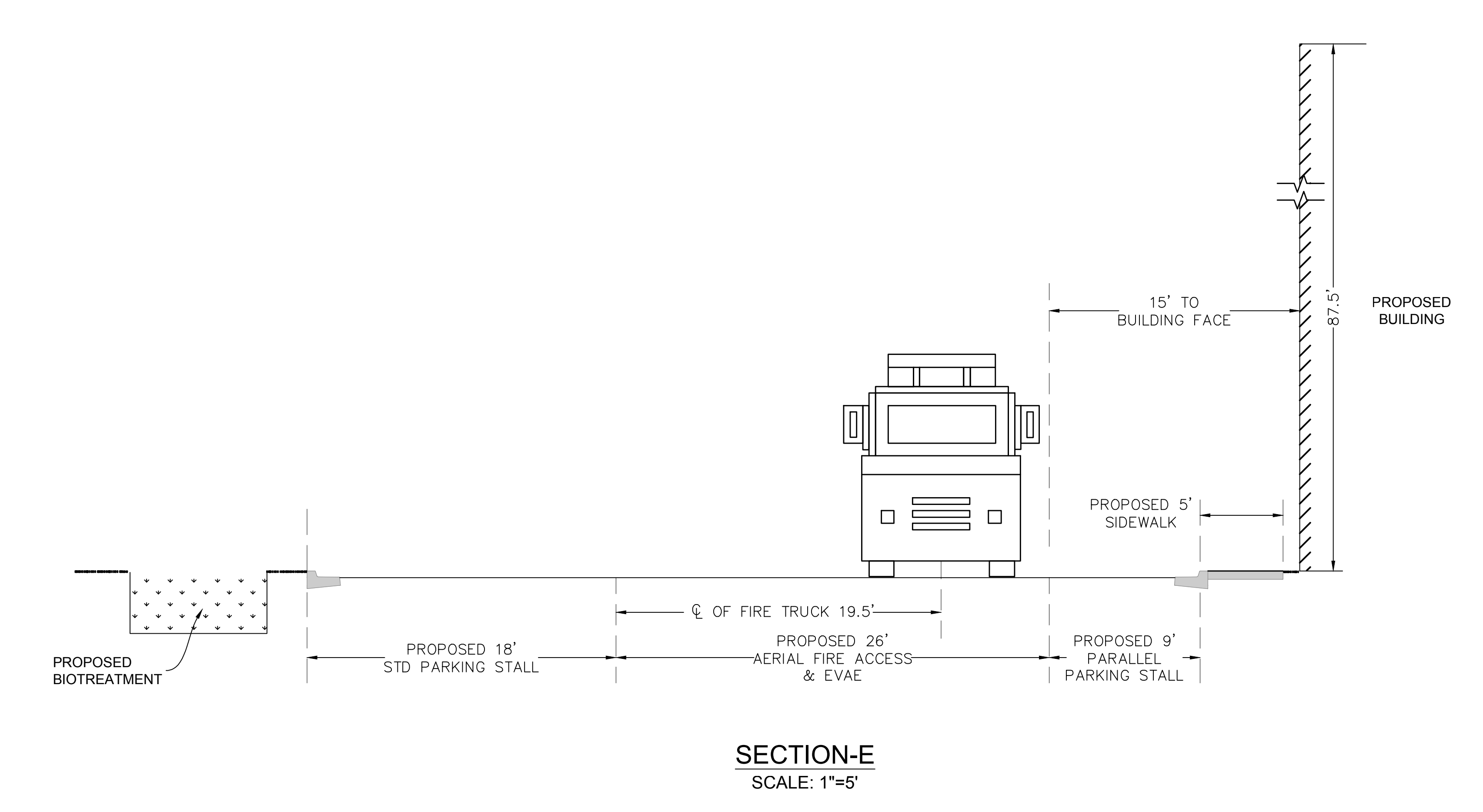
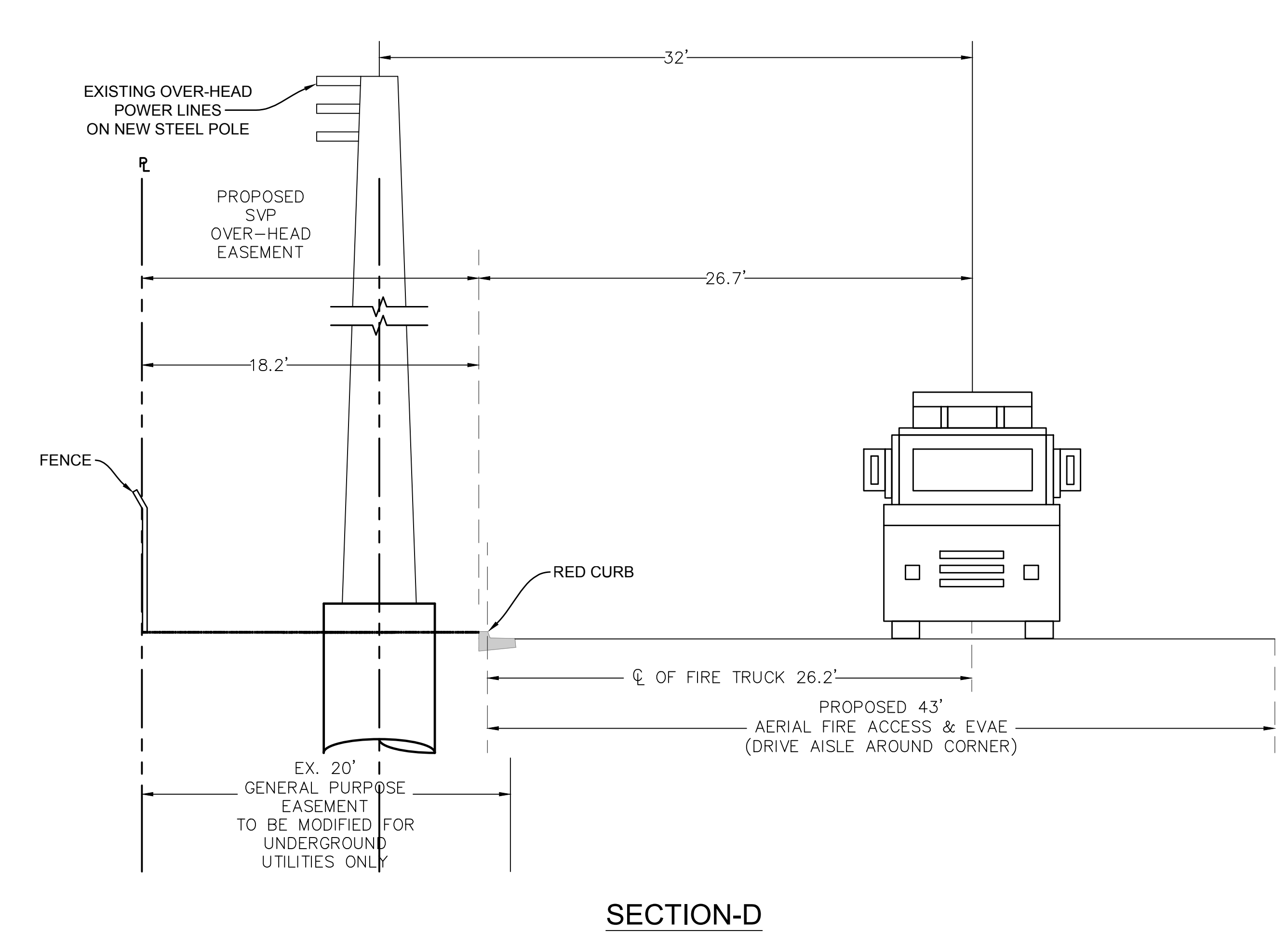
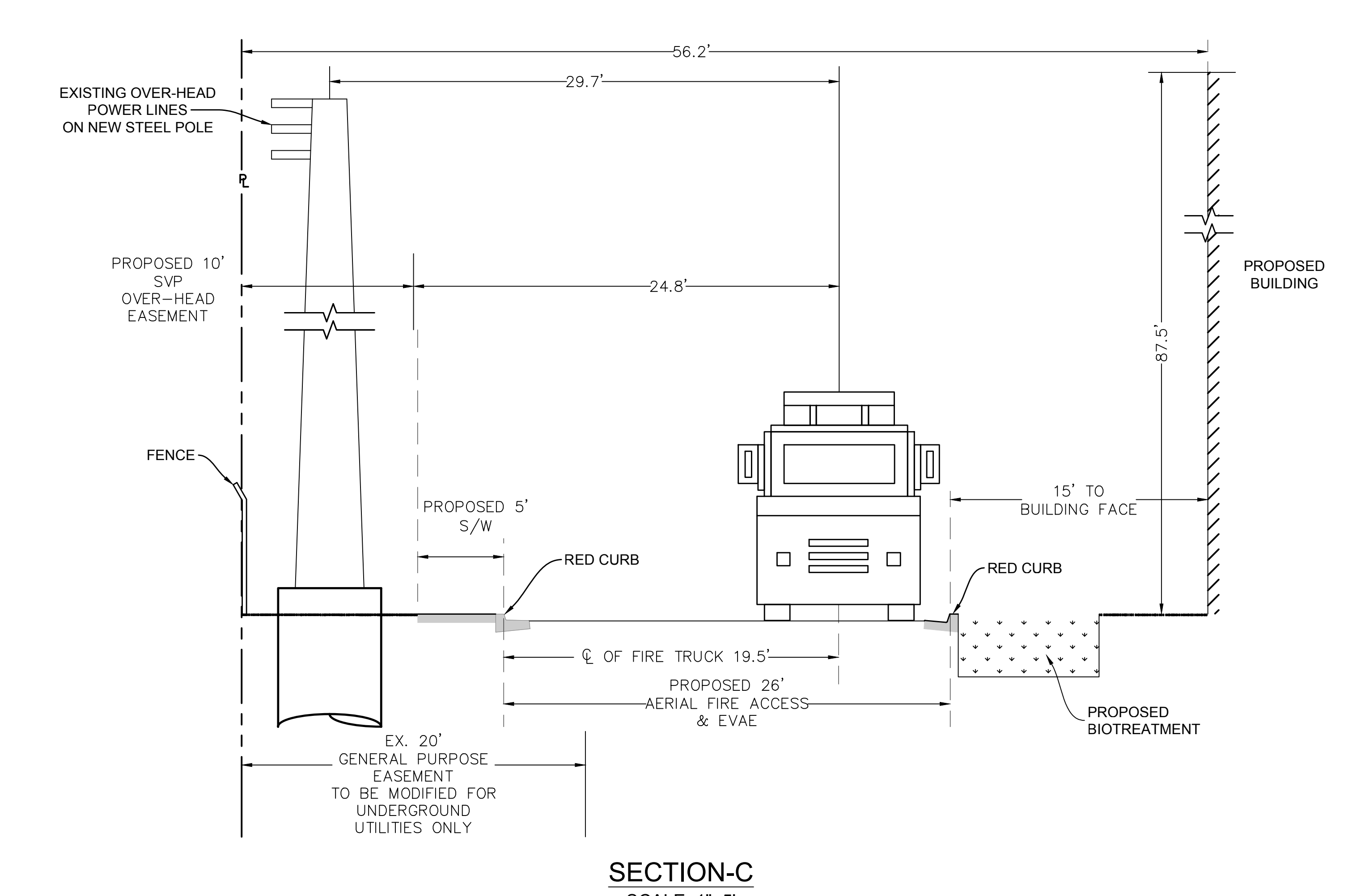
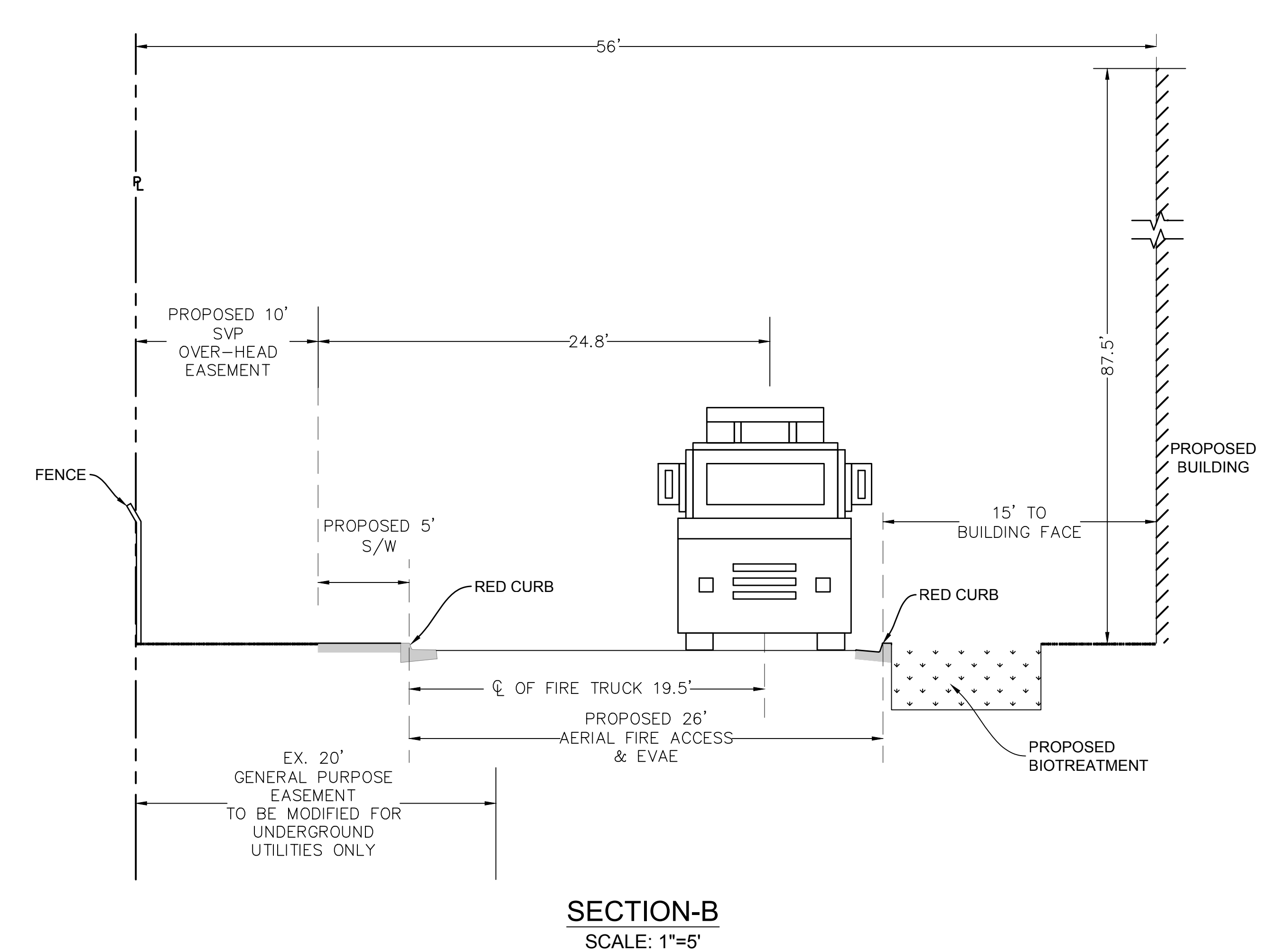
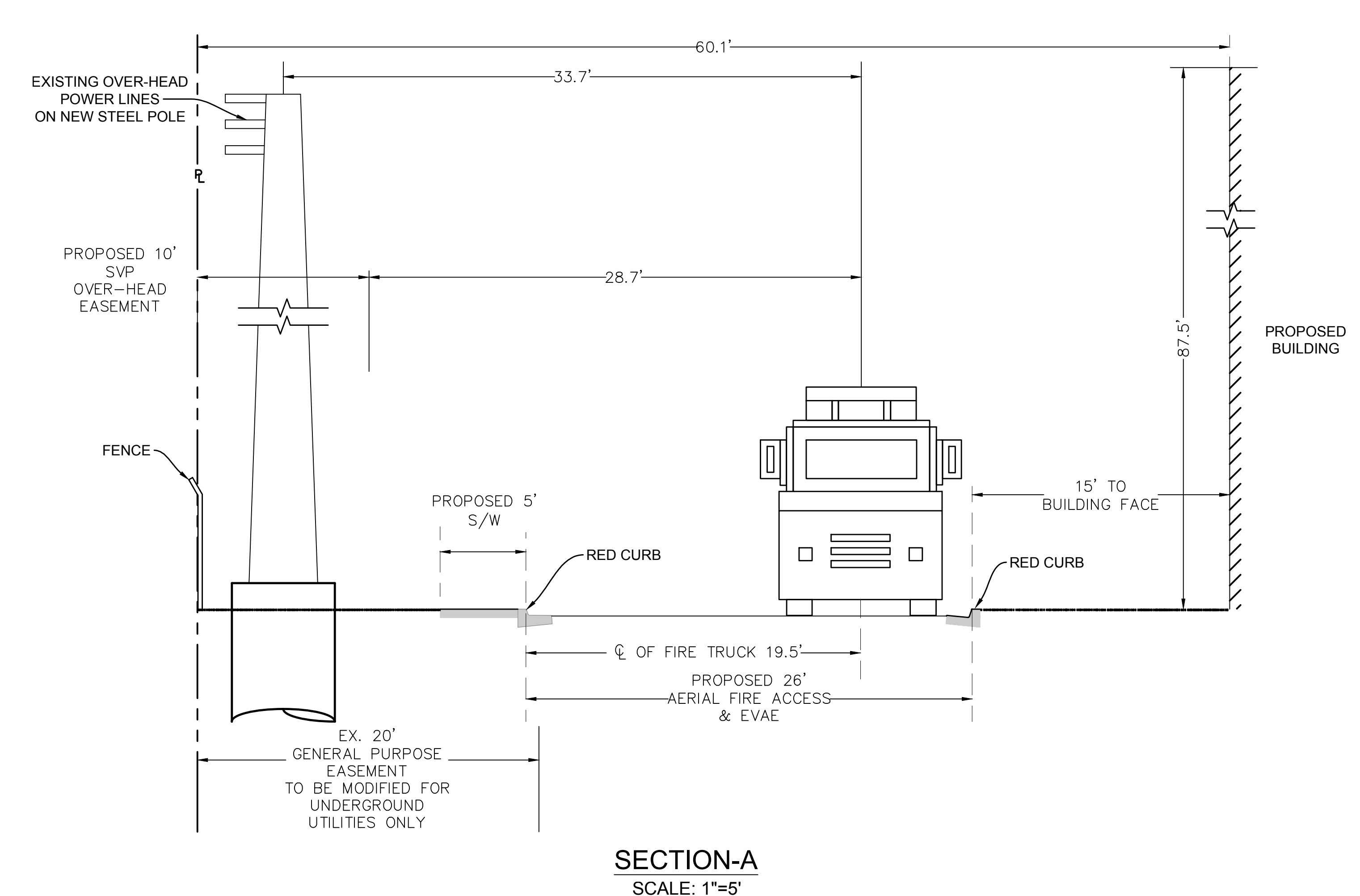
5

4

3

2

1



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VANTAGE
DATA CENTERS

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UNIVERSITY CREST DRIVE
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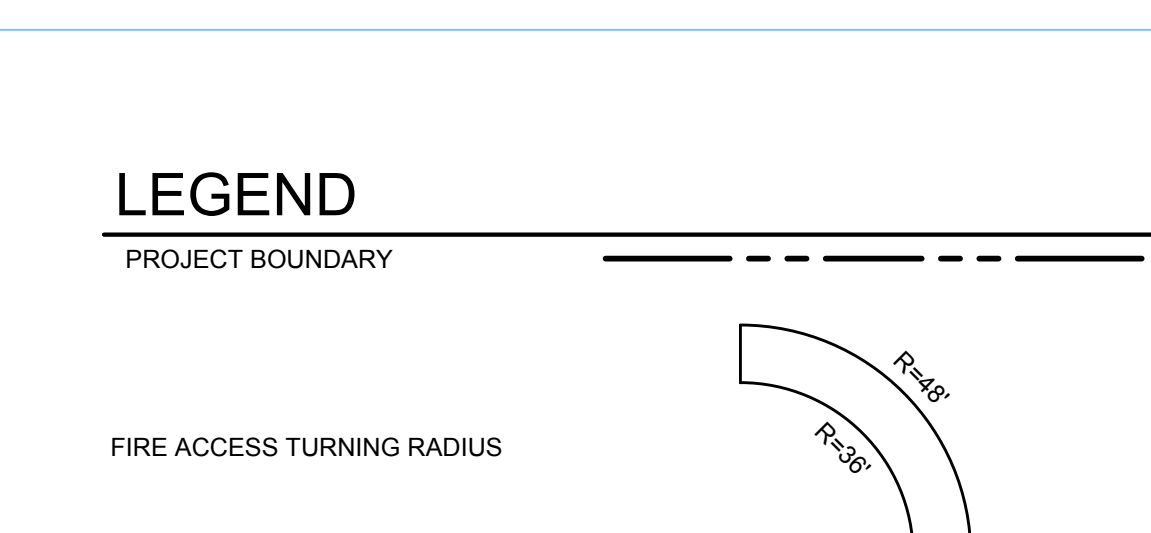
No.	Description	Date
D	Issued for PCC Review	10-25-2021
C	Issued for PCC Review	09-30-2021
2	Issued for 100% SD	08-26-2021
B	Issued for PCC Review	08-11-2021
1	Issued for 100% SD	07-16-2021
A	Issued for PCC Review	06-10-2021

VANTAGE CA31
2590 WALSH AVENUE
SANTA CLARA, CA 95051
APN : 216-28-112

ISSUED FOR PCC REVIEW

CROSS SECTIONS

C6.1



REED ASSOCIATES
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677 SOUTH TAPPAE STREET
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PROGRESS SET
NOT FOR CONSTRUCTION

D	Issued for PCC Review	10-25-2021
C	Issued for PCC Review	09-30-2021
B	Issued for 100% DQ	08-26-2021
B	Issued for PCC Review	08-11-2021
I	Issued for 100% SD	07-16-2021
A	Issued for PCC Review	05-10-2021
No.	Description	Date

VANTAGE CA31
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ISSUED FOR PCC REVIEW

FIRE ACCESS - DRIVEWAY ENLARGEMENT & SECTIONS

C6.2

SCALE: AS NOTED

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