

1.	CODES AND REGULATIONS	ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES, AS WELL AS ALL APPLICABLE STATE CODES & LOCAL CITY ORDINANCES, 2019 CALIFORNIA BUILDING CODE (C.B.C.) 2019 CALIFORNIA RESIDENTIAL CODE (C.R.C.) 2019 CALIFORNIA ELECTRICAL CODE (C.P.C.) 2019 CALIFORNIA PLUMBING CODE (C.P.C.) 2019 CALIFORNIA MECHANICAL CODE (C.M.C.) 2019 CALIFORNIA FIRE CODE (C.F.C.) 2019 CALIFORNIA FIRE CODE (C.F.C.) 2019 CALIFORNIA FIRE CODE (C.F.C.) 2019 CALIFORNIA FIRE CODE (C.F.C.) 2019 CALIFORNIA FIRE CODE (C.G.C.) NOTHING ON THE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES & REGULATIONS.	
2.	SITE VERIFICATION	GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL EXAMINE THOROUGHLY THE SITE AND SATISFY THEMSELVES AS TO THE CONDITIONS TO WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS WORK, AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME. NO EXTRA COST TO THE OWNER WILL BE ALLOWED RESULTING FROM HIS NEGLIGENCE TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS AFFECTING HIS WORK.	
3.	MEASUREMENTS	CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BY TAKING FIELD MEASUREMENTS; FOR PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY. REPORT TO THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF ANY RELATED WORK. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO DO SO, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR THE CORRECTION OR ADJUSTMENT OF ANY SUCH RELATED WORK OR ERRORS.	
4.	DIMENSIONS	DO NOT SCALE THESE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.	
5.	DISCREPANCIES	MINOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ARE TO BE EXPECTED. CONDITIONS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.	
6.	MANUFACTURER'S SPECIFICATIONS	CONTRACTOR AND ALL SUBCONTRACTORS SHALL INSTALL OR APPLY, AND PROTECT ALL PRODUCTS, MATERIALS, PROCESSES, METHODS, COATINGS, EQUIPMENT, APPLIANCES, HARDWARE, SOFTWARE, ETC. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, DETAILS & INSTRUCTIONS, TYPICAL. ALL MANUALS OR INSTRUCTIONS PROVIDED BY THESE MANUFACTURER'S FOR PROPER OPERATION AND MAINTENANCE OF THE ABOVE ARE TO BE DELIVERED TO THE OWNER AT THE COMPLETION AND FINAL INSPECTION OF THE PROJECT.	
7.	WINDOWS AND DOORS	CONTRACTOR SHALL VERIFY THE QUANTITY, ROUGH OPENINGS AND TYPES OF DOORS AND WINDOW AND DOOR SCHEDULES IN RELATION TO FRAMING PER FIELD PRIOR TO ORDERING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.	
8.	CALGREEN STANDARDS	ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AND AEROSOL PAINT CONTAINERS MUST REMAIN ON THE SITE FOR FIELD VERIFICATION BY THE BUILDING INSPECTOR. PER CGBSC SEC. 4.504.2.4	
		PRIOR TO FINAL INSPECTION, A LETTER SIGNED BY THE GENERAL CONTRACTOR OR THE OWNER/BUILDER (FOR ANY OWNER/BUILDER) PROJECTS MUST BE PROVIDED TO THE COUTY OF SANTA CLARA BUILDING OFFICIAL CERTIFYING THAT ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AEROSOL PAINTS, AEROSOL COATINGS, CARPET SYSTEMS (INCLUDING CARPETING, CUSHION AND ADHESIVE), RESILIENT FLOORING SYSTEMS, AND COMPOSITE WOOD PRODUCTS INSTALLED ON THIS PROJECT ARE WITHIN THE EMISSION LIMITS SPECIFIED IN CGBSC SECTION 4.504.	

1.			
	GROSS AREA :	= 1	l3.41 AC.
	NET AREA :	= 1	13.28 AC.
2.	FLOOR AREA		
	LOWER FLOOR AREA :	=	1,428 SQ. FT.
	UPPER FLOOR AREA :	=	2,484 SQ. FT.
	UPPER FLOOR AREA DBL. COUNTED:	=	276 SQ. FT.
	TOTAL CONDITIONED FLOOR AREA :	=	4,188 SQ. FT.
	LOWER FLOOR CABANA/ KITCHEN:	=	353 SQ. FT.
	UPPER FLOOR AREA PORCH & BALCONY:	=	67 SQ. FT.
	UPPER FLOOR AREA DBL.COUNTED @ BALCONY	=	6 SQ. FT.
	GARAGE AREA :	=	602 SQ. FT.
	TOTAL UNCONDITIONED FLOOR AREA :	=	1,028 SQ. FT.
	TOTAL FLOOR AREA:	=	5,216 SQ. FT.

CONSULTANT DIRECTORY

ARCHITECT

METRO DESIGN GROUP CONTACT : TOM SLOAN A.I.A. 1475 S. BASCOM AVE. # 208 CAMPBELL, CALIFORNIA 95008 (408) 871-1071 PHONE

CIVIL ENGINEER

HANNA - BRUNETTI ASSOCIATES. CONTACT: AMANDA MUSY - VERDEL 7651 EIGLEBERRY ST. GILROY, CA 95020 (408) 842 - 2173 OFFICE

GEOTECHNICAL ENGINEER UPP GEOTECHNOLOGY 750 CAMDEN AVE, SUITE A CAMPBELL, CA 95008 (408) 866-5436 PHONE (408) 941-6824 FAX

SEPTIC SYSTEM ENGINEER

S.R. HARTSELL, R.E.H.S. P.O. BOX 342 PACIFICA, CA 94044 (650) 888-2419 PHONE srhartsell@gmail.com

TOPO SURVEY & BOUNDARIES

ALPHA LAND SURVEYS, INC. A. BRODIE FRENCH, PSL 9301 4444 SCOTTS VALLEY DR #7 SCOTTS VALLEY, CA 95066 (831) 229-2032 CELL (831) 438-4453 OFFICE

PROPERTY OWNERS
PHONE:
MAILING ADDRESS
MAILING ADDRESS

MAX HEIGHT

CONSTRUCTION TYPE OCCUPANCY STORIES

FIRE SPRINKLERS

EXISTING USE

3.28 AC		
17-30-013		
17-30 , PAR	CEL B	
IS-d1 -sr (10	0%)	
Equired Ront: Dide: Ear: Cenic Road	30' 30' 30' 2: 100'	<u>PROPOS</u> FRONT: SIDE: REAR:
ΈS		

PROPOSED

V-B R-3/U

<u>ALLOWED</u>

35'

3 REQUIRED (NFPA-13D)

RESIDENTIAL, VACANT LOT

PROJECT DESCRIPTION

APPLICATION FOR DESIGN REVIEW TIER II FOR A NEW RESIDENCE ON A VACANT LOT. PROJECT DEVELOPMENT INCLUDES NEW DRIVEWAY, WALKWAYS, PATIOS, WATER STORAGE AND SEPTIC SYSTEM. TWO OAK TREES, ONE FIR TREE AND EIGHT BAY TREES ARE PROPOSED TO BE REMOVED.

30.56'

PROJECT SITE

PROJECT DESCRIPTION VICINITY MAP SHEET INDEX CONSULTANT DIRECTORY

DATE : 7/27/2022 SCALE : AS-NOTED

DRAWN BY: D.Z. T.S.

CHECKED BY : TS ARCHITECT : TOM SLOAN PROJECT NO: 20695

SHEET NUMBER





1" = 20' DATE: 11/16/20 JOB#: 2020-176

SARATOGA, CALIFORNIA OF ONE



7/2022 4:22 PM

	VICINITY M	AP	
	Proved Hakone Estate and Gardens Montalvo Arts Center 16968 Bohlman Rd, Saratoga CA 95070 El Sereno	B Pollard Pd Pollard Pd Pol	METRO DESIGN DESIGN GROUP ARCHITECTURE: PLANNING: INTERIORS 1475 S. BASCOM AVE SUITE 208 CAMPBELL, CA 95008 (408)871-1071 phone www.metroarchitects.com The plans, ideas and design on this drawing are the property of the drawing are the property of the
	Preserve		contract. Plans shall not be used, in whole or in part, for any purpose for which they were not intended without the written permission of METRO DESIGN GROUP. C
/ /	AREA TABUL	ATIONS	PROJECT NAME
]	1. SITE AREA		SINAPI
	GROSS AREA :	= 13.41 AC.	RESIDENCE
	NET AREA : 2. FLOOR AREA	= 13.28 AC.	16968 BOHLMAN ROAD
	LOWER FLOOR AREA :	= 1,428 SQ. FT.	SARATOGA, CA 95070
	UPPER FLOOR AREA :	= 2,484 SQ. FT.	AFN 317-30-013
	TOTAL CONDITIONED FLOOR AREA :	= 4,188 SQ. FT.	
	LOWER FLOOR CABANA/ KITCHEN:	= 353 SQ. FT.	
SCALE	UPPER FLOOR AREA PORCH & BALCONY: UPPER FLOOR AREA DBL.COUNTED @ BALCOM	= 67 SQ. FT. NY = 6 SQ. FT.	
	GARAGE AREA :	= 602 SQ. FT.	
	TOTAL FLOOR AREA:	= 1,028 SQ. FT. = 5,216 SQ. FT.	
	3. IMPERVIOUS AREA		
	BUILDING FOOTPRINT :	= 3,098 SQ. FT.	
	CONCRETE PATIO, WALKS : SWIMMING POOL:	= 1,548 SQ. FT. = 497 SQ. FT.	
	DRIVEWAY:	= 2,082 SQ. FT.	
		= 7,225 SQ. FT.	
	8" Min. Low Permeable Sole	Cao Unit	
	8 Min. Low Permeable Soli Keystone 24" Unit Drai Crushed Geogrid 1/8" - 1/4"	e Standard III Unit nage Fill (3/4" Rock or Stone) Reinf. 8" Min. Low	
Unit dard III Fill Approximate Limits of Excavation	B" Grid Depth Unreinforced Concrete or Crushed Stone Leveling Pad Reinforced Soil 24"	Keystone Cap Unit Keystone Standard III Unit Unit Drainage Fill (3/4" Crushed Rock or Stone) Unit Drainage Fill (3/4" Crushed Rock or Stone) Geogrid Reinf.	THOMAS J. SLOAN C20278 EXP. 10/31/21
4" Perforated PVC	Grid Depth	Finished Grade	SITE PLAN
oncrete ne <u>Note:</u> When site conditions tile in 3/4" aggregate drainage composite of	require, wrap drainage and filter fabric with or aggregate back drain	Unreinforced Concrete or Crushed Stone Leveling Pad	
system, as directed t	by geotecnnical engineer. <u> Typical Reinforced Tiered Wall</u> Standard III Unit - Near Vertical Setbac	Section ^{ck}	BOUNDARY PLAT AREA TABULATIONS VICINITY MAP GRADING QUANTITIES
			DATE : 7/27/2022
			SCALE : AS NOTED
			DRAWN BY : D.Z. T.S.
			CHECKED BY : TS
			ARCHITECT : TOM SLOAN
			PROJECT NO: 20695

A-1.0



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	METRO
	D E S I G N G R O U P
	ARCHITECTURE: PLANNING: INTERIORS
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	PROJECT NAME
	KESIDENCE
	16968 BOHLMAN ROAD SARATOGA, CA 95070
	APN 517-30-013
	REVISIONS
	ENSED ARCHITA
	THOMAS J. SLOAN
	★ C20278 EXP. 10/31/21 ★
	ST THE
	OF CALIFOT
	LANDSCAPE PLAN
,	
	SCALE :
	DRAWN BY : TS
	CHECKED BY : TS
	ARCHITECT : TOM SLOAN
]	PROJECT NO: 20695
	SHEET NUMBER

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PHOTOS













S & SPECIFICATIONS	Spec. No.	CFMO SD16
narounds for Driveways For One-	Rev. Date: Eff. Date:	N/A 04/08/1981
v Dwellings	Approved By:	J. Saunders
_	Page:	1 of 1

SCOPE This standard is applicable to required turnarounds for driveways for new or expanded one- and two-family dwellings and/or associated structures where any portion of the protected structure(s) is in excess of 150 feet from the centerline of a public or private roadway (measured by an approved route around the exterior of the building). Specifications contained in this Standard apply to all properties located within unincorporated Santa Clara County.



Turnaround "D"



SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE 70 W. Hedding St., East Wing, 7th Floor • San Jose • CA 95110 • (408) 299-5763







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PROJECT NAME	
SINAPI	
16968 BOHLMAN ROAD SARATOGA, CA 95070	
APN 517-30-013	
	-
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	_
	-
SEENSED ARCHITE	
★ THOMAS J. SLOAN ★ C20278 ★	
EXP. 10/31/21	
PAR OF CALIFORT	
	_
DATE : 7/27/2022	
$\frac{\text{SCALE}}{\text{DRAM/N} \text{ RV} \cdot \text{ TC}}$	
CHECKED BY : TS	_
ARCHITECT : TOM SLOAN	
PROJECT NO: 20695	
SHEET NUMBER	

A- :	L.2
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27/2022 In 12/2022





	METRO
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	METRO DESIGN GROUP. C
	PROJECT NAME
	SINAPI
	RESIDENCE
	16968 BOHLMAN ROAD
	SARATOGA, CA 95070 APN 517-30-013
	REVISIONS
	SSENSED ANCHINES
	THOMAS J. SLOAN ★ C20278 ★
	EXP. 10/31/21
	FIE OF CALIFORNIA
	MAIN & LOWER FLOOR PLAN
	TABLII ATTONS
	TADULATIONS
,	
	SCALE : 7/2//2022
	$\frac{33.12}{\text{DRAWN BY}} = 1.5710$
	CHECKED BY : TS
	ARCHITECT : TOM SLOAN
]	PROJECT NO: 20695
	SHEET NUMBER

A-	2.	2
A-	2.	2

	TABULATION	5
ID		AREA
Α	23.75 X 25.38	598.71 sq ft
В	(1.63 X 4.17) / 2	3.32 sq ft
	SUBTOTAL	602.03 sq ft
С	(4.5 " X 4.17) / 2	18.63 sq ft
D	(4.5 X 11.77) / 2	26.06 sq ft
Е	15.92 X 10.15	161.29 sq ft
F	2 X 12.42	24.83 sq ft
G	22 X 28.88	635.00 sq ft
Н	3.38 X 12.92	43.76 sq ft
Ι	3'-9.5" X 3'-9.5" / 2	7.16 sq ft
J	3.79 X 5.33	20.24 sq ft
K	3.79 X 3.79 / 2	7.16 sq ft
L	2 X 9.5	19.03 sq ft
М	9.04 X 18.58	168.21 sq ft
Ν	(3.14) X (4.75) / 2	35.49 sq ft
0	1.5 X 9.5	14.26 sq ft
Р	6.71 X 16.75	112.49 sq ft
Q	33.08 X 36	1,190.90 sq ft
	SUBTOTAL	2,483.61 sq ft
R	13.90 X 23.71	329.45 sq ft
	SUBTOTAL	329.45 sq ft
S	10.5 X 11.96	125.74 sq ft
Т	12.67 X 17.90	226.75 sq ft
	SUBTOTAL	352.49 sq ft
U	12.67 X 9.5	120.56 sq ft
V	3.14 X 4.75 / 2	35.46 sq ft
W	1.5 X 9.5	14.25 sq ft
Х	6.71 X 16.75	112.47 sq ft
Y	24.67 X 33.08	816.10 sq ft
	SUBTOTAL	1,098.84 sq ft



27/2022 4:22 PN





		M E T R O D E S I G N G R O U P ARCHITECTURE · PLANNING · INTERIORS 1475 S. BASCOM AVE SUITE 208 CAMPBELL, CA 95008 (408)871-1071 phone www.metroarchitects.com
		for which they were not intended without the written permission of METRO DESIGN GROUP. © PROJECT NAME SINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINAPI BINA BINAPI BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA BINA
		REVISIONS I
TERIOR FINISH ROOF: GUTTERS, DOWNSPOUTS SCUPPERS:	ES CLASS -A 'CERTAINTEED' ASPHALT SHINGLES STYLE - LANDMARK PRO - COLOR- COBBLE STONE LRV 35 ARCHITECTURAL COPPER LRV 6 LATEX COLOR INTEGRAL STUCCO	KENSED ARCHITCH THOMAS J. SLOAN C20278 EXP. 10/31/21
WAINSCOT:	-MEDIUM TAN COLOR TO MATCH KELLY MOORE KM5716-3 'RODEO ROUNDUP'-LRV 30 'BUECHEL STONE' LEDGESTONE - NATURAL STONE VENEER - CINNAMON BARK COLOR LRV 25	EXTERIOR
 WINDOWS/EXTERIOR DOORS, EXTERIOR WALLS METAL CLAD BEAMS, RAFTER TAILS, FASCIA BOARD/ WINDOW & DOOR EXTERIOR CASINGS 	ALUMINUM WOOD CLAD / ALUMINUM CLAD 'DARK BRONZE' ANODIZED ALUMINUM, LRV 5 CINNAMON STAINED DOUGLAS FIR WOOD/ 'AZEK, BORAL OR SIMILAR' TRIMS PAINTED TO MATCH WOOD COLOR, LRV 15	ELEVATIONS
		DATE : 7/27/2022 SCALE : 1/4" = 1'-0" DRAWN BY : D.Z. T.S. CHECKED BY : TS ARCHITECT : TOM SLOAN PROJECT NO : 20695

SHEET NUMBER



EX

1

2

3

5

6

____ T.P. = 996.00' (8'-0" A.F.F.)

F.F. = 988.00'





SHEET NUMBER







tire parcel by others	County of Santa Clara Department of Environmental Health SOIL PERCOLATION TEST RECORDED MEASUREMENTS	
	OWNER/APPLICANT: James Morris SR#: PLN FILE#: LOCATION: Bohlman Road, Saratoga REHS: 5 Hartsell CONTACT PERSON: James Morris PHONE: 650 888 2419 DATE: 11-15-20/6	
PARCEL B	HOLE # 1. DEPTH 5' HOLE # 2 DEPTH 5' TIME WATER LEVEL TIME WATER LEVEL START FINISH START FINISH AMIN AINCH MPI START FINISH START FINISH AMIN AINCH MPI 8 9 30 22 4/3 216/4 20 6/5 40 807 837 24 948 32	
427 MAPS 29 NET AREA	831 7 23% 227 30 1 30 B32 962 74 WT 30 19 930 23% 22% 30 1 30 902 832 74 WT 30 930 10 23% 22% 1 30 932 942 74 78% 10 4% 24	
=13.28 AC. + / -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	HOLE #3 DEPTH 5' HOLE #4 DEPTH 5' TIME WATER LEVEL TIME WATER LEVEL AND A NOT ME START FRUSH A AND A DEPTH ADD	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HSPECIALISE
NDARY	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hart Part
LAT		PIRES 12
		CONTROL OF
AL SYSTEMS	START FINISH AMIN AMIN AMIN AMIN AMIN MINCH MPI START FINISH AMIN AMIN AMIN MPI 805 835 $185/8$ mT 30 — 806 836 $234/9$ $30^{-17.8}$ $44/829$ $41/6$ 835 905 $182/8$ MT 30 — 836 906 $229/8$ mT 30 — $-$	CS
FE OF INSPECTION: 5 / 12 / 11	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
CHECKED BY: R- Chung		
HOLE #:	HOLEI23456Stabilized MPIR302.89.8 3.3 1.2 1.4 Adjusted Stabilized MPIR ₁ =R x 1.4 42 3.7 13.7 4.6 1.7 1.7 Average Adjusted Stabilized MPIR= 2.8 $1/2$ 4.6 5.6 5.6 5.6 5.6	
2 ft-	# Bedrooms: FOR OFFICE USE ONLY Tank Size (Gal) Leach line (Ft)	H.S.
3 ft-	These percolation test holes were set up and the test was conducted in accordance with county standards, including the pre-soak. I was on site during the entire test. SR Hartsell, REHS County of Santa Clara– Department of Environmental Health	1.E.H 12 12 402 888-24
4 ft-	SOIL PERCOLATION TEST RECORDED MEASUREMENTS OWNER/APPLICANT: Notest Schapp Schapp SR#: LOCATION: / SQL8 Schapp REHS: Sector	(650) (650)
5 ft-	CONTACT PERSON: Contact Person: Contact Person: IHOLE### HOLE### 3 DEPTH Contact Person: IHOLE###### DEPTH Contact Person: IHOLE###### DEPTH Contact Person: IHOLE####################################	SEL BO) A, C
6 ft-	STARTFINISHSTARTFINISHAMINANCHMPISTARTFINISHSTARTFINISHAMINAINCHMPI125012090MT36 D 125/121120MT30 D 12015090MT36 D 121/15116MT30 D 15015090MT36 D 121/15116MT30 D 15015090931622921151/1511612566336297	ART O. O. Bund
8 ft-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P. H/
10 ft-	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	P. P.
12 ft-	HOLE#4. 9 DEPTH 5' HOLE#4 DEPTH	
16 ft-	Image: Start water level time water level Start Finish Start Finish Start Finish 12 52 12.2 6 MT 30 7 12 12 15.3 6 MT 30 7	
18 ft.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	TER
20 ft-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VA ⁻ SPC
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	N DI A
APN 517 30 013 11/26/2016	HOLE $+$ B 4 5 6 Stabilized MPI R $2,2-5$ $2,6$ $5,5$ $-$ Adjusted Stabilized MPI $R_1 = R \times 1.4$ $3,15$ 3.7 $7,7$ $-$ Average Adjusted Stabilized MPI $R_2 = (\Sigma R_1)/\#$ Holes $2,54$ $ -$	VAS VT 8 VT 8
SR Hartsell GHI, REHS, SANTA CLARA COUNTY	# Bedrooms: FOR OFFICE USE ONLY Tank Size (Gal) Leach line (Ft) holes 3,4,7,8, and 9 are in the proposed leach field are in or close to the propose Tank Size (Gal) Tank Size (Gal)	N E V SY
DESCRIPITON	per inch (MPI) respectively. The average rate for these five perk test hoels is 4.55 MPI.	ISIT ATN
andy silty loamy clay roots present	PROJECT DISCUSSION	IRE.
	The property owners (the Sinapi's) want to build their new home on this site. Since there is no public sewer in this area, this plan was developed to show where and how an onsite wastewater treatment and dispesal system will be installed on this property.	
	to serve the proposed 6 bedroom home.	
wn sandy silty clay with fractured rock	Percolation testing and soil profiles were perfumed as shown on this page. The soil profiles showed acceptable soils down to a depth of at least 13 feet and no signs of	DAD 70
	calculated per County instructions. Since some of the slope exceeds 30% an alternative system is required and a pressure dosed system will be installed.	J RC 950 013
	At this rate (4.55 MPI) the County allows an application rate of 1.2 gallons per square	1AN CA 30-0
DTAL DEPTH 13' DRY	trench. Since the slope of he are used is less than 40% a trench separation of 9' on center is used, and leach trench separation is 9' on center.	HLN 17-
ROAD, SARATOGA, CA 95070 APN 517 30 013	For a six bedroom home the County requires the septic system have two leach fields	
11/26/2016 SR Hartsell	each able to handle 675 gallons of wastewater a day, in this case two leach fields each with 141 linear feet of leach trench are required for standard leach trench detail (675 gallons per day/1.2 gallons per square foot of infiltrative area = 563 square feet of	68 RAT API
GHI, REHS, SANTA CLARA COUNTY	infiltrative area per leach field/ 4 square feet of infiltrative area per linear foot of leach trench = 141' of leach trench for each of the two required leach fields). Since this	169 SA
DESCRIPITON	plan utilizes Quick Four High Capacity infiltrator chambers (with a 6.6 Square feet of Infiltrative area per liner foot) the County allows a 30% reduction in trench length99	
sillty loamy sandy clay roots present reddish bro9wn sandy clay	linear feet are required perk leach field. trench per leach field is 99 linear feet (141 *.7 = 99'). This plans show two leach fields each with at least 99 linear feet of leach trench	MAY 22 2022
	A 1500 gallon septic tank and 1500 gallon pump chamber are also shown.	SCALE AS NOTED
		BY SRH
an sandy alcy with rock fragemtns	KEY TO PAGES	
	 OVERALL ONSITE SYSTEM PLAN CALCULATIONS AND SELECTED EQUIPMENT 	PAGE
	3. SELECTED EQUIPMENT AND SECTIONS	onsite 1
depth 14' no water seen	4. ADDITIONAL COUNTY KEQUIKEIVIENTS	SS-1

SHALLOW TRENCH PRESSURE DOSED SYSTEM CALCULATIONS

The following calculations were base on the EPA Design Manual 35, **Onsite Wastewater Treatment and Disposal Systems (manual) and** the Washington State Department of Health Recommended Standards and Guidance for Performance, Application, Design, and **Operation & Maintenance Pressure Distribution Systems** (guidelines) published in 2009, and the Santa Clara County Onsite Systems Manual.

System Criteria

Each of the two required leach fields has three laterals, separated by a Orenco distributing valve so that each time the pump is turned on only one of the leach trenches is pressurized. This discussion addresses the parameters of the leach trench that has the highest head (the one farthest from the pump).

- 1. All coupling utilize solvent welding.
- 2. The hole diameter selected is $\frac{3}{16}$ " with a spacing of 2 feet (see table A1).

3. The laterals are 1.5" schedule 40 PVC. 4. A minimum of 5 feet of head is to be maintained in the system so the orifice discharge rate is .93 gallons per hole (table A2) . 5. The total maximum number of orifices in a trench is trench is 21 $(\frac{40}{2} + 1 = 21)$. Each leach trench requires a minimum flow of gallons per minute (21 *.93 = 19.53 gallon per minute).

6. . The minimum dose volume shall be 150 gallons.

Drill orifice holes carefully and clean any residue from the holes before installing the pipe. Make sure no gravel gets inside the pipe.

PUMP SYSTEM WORKSHEET

Applicant Mr. and Ms. Sinapi		Date	5-27-2022
Owner same		File No.	
Site Address 16968 Bohlman R	oad City Sarato	oga APN	517 30 013
Designer (REHS or RCE) Steven	Hartsell		
Number of bedrooms6	Total s	quare footage of living	spacena
Septic tank size <u>1500 gallon</u> Install	ed drainfield 199 linea	r feet Expansion dra	infield
Elevation of highest drainfield (ft) Elevation of pump off (ft) Total lift (Ft Head)	- <u>981</u> - <u>971</u> =10 (A)		
<u>TIGHT LINE</u> Diameter of tight line (inches) <u>1.5</u> Length of tight line from pump to up	oper drainfield (ft) _40'	(B)	
FITTINGS			
<u></u>	Pipe Lenath	Total Pipe	
No. of Fittings	Equivalent (ft)	Equivalent (ft)	
<u>.</u>	See chart]
90° standard elbow X	4	=_16	
45° standard elbow X	2	= 8	
90° long radius elbow X	(=	
other fittings X	< <u>1</u>	=	
gate valve (fully open) X	(<u> </u>	=_1	
check valve x		=	
(conventional swing)			
Total Length of Pipe = $B + C =7$	′ <u>0'</u> (D)	TOTAL= <u>30</u> (C)	
CALCULATIONS:			
Friction Loss in Pipes and Fittings: (D/100 ft) x 2.61 (friction loss p .7	er chart) = (E)	Head in Feet	Dosing volume to achie conditions.
$\frac{\text{Required Pump Size:}}{__10} (A) + _1.83 (E) = _11.83 (C)$ there is an additional head of 5 f $\frac{\text{Pump Size:}}{_(E) \text{ versus GPM}} = \text{Pump Size} (reference)$	(F) Total Pumping Head feet for the distributi r to pump curve)	l in Feet on valve and 1 feet o	f r the discharge assembly
(,			

Pump Model: (Attach Pump Curve) 19.53 GPM at 18 (G) (ft of head: from pump curve) Manufacturer/Model Goulds WE Series model 3885

() (1 1 ,
Required Capacity in Gallons	
Dosing Volume	<u>150 gallons</u>
Storage Capacity (1 1/2 days)	<u>_1012.5 gallons</u> = 1.5 * 675
Pump Displacement	<u>8 gallons</u>
Volume from tank bottle to pump base	5"
Total tank capacity	<u>1500 gallons</u>

Pump Tank Information Manufacturer Don Chapin Pre-Cast Size 1500 Gallons per inch varies by depth see

Tables A1 and A2 Weshington State Department of Health

<text></text>	bles A1 an ecommei policatio	nd A2 washii Aded Standa A Design a	ngton State ards and G and Operati	e Departmei uidance for ion & Maint	nt of Health Performance,		Technical Data She	et	Orenco [®]	Technical Data She	et		
	stributio	n Systems	(guidelines	b) published	in 2009	DISTRIDU	iting valve	S	Specifications Model Inlet	Size, in. (mm) Outlets Size, in. (mm)) Flow Range, gpm (L/sec)	Max Head, ft (m)	Min. Enclosure
		Pressure Distrib	oution Systems - Reco Effective Date:	ommended Standards a : July 1, 2009	and Guidance	Applications		General	V4402A V4403A	1.25 (32) 1.25 (32) 1.25 (32) 1.25 (32)	10 - 40 (0.63 - 2.52) 10 - 40 (0.63 - 2.52)	170 (51.816) 170 (51.816)	VB1217 VB1217
			Table	• A-1		Automatic Distributing Valve As tiple zone distribution systems i drainfields.	semblies are used to pressurize mul- ncluding textile filters, sand filters and	Urenco's Automatic Distributing Valve Assemblies are mechanically oper- ated and sequentially redirect the pump's flow to multiple zones or cells in a distribution field. Valve actuation is accomplished by a combination	V4404A V4605A	1.25 (32) 1.25 (32) 1.25 (32) 1.25 (32) 1.25 (32) 1.25 (32)	10 - 40 (0.63 - 2.52) 10 - 40 (0.63 - 2.52)	170 (51.816) 170 (51.816)	VB1217 RR2418
			Lateral Design T	able (continued)	T / 1T /			of pressure and flow. They allow the use of smaller horsepower pumps on large sand filters and drainfields. For example, a large community drainfield requiring 300 gpm (18.90L/sec) can use a six-line valve	V6402A	1.25 (32) 1.25 (32) 1.50 (38) 1.50 (38) 1.50 (38) 1.50 (38)	10 - 40 (0.63 - 2.52) 15 - 100 (0.95 - 6.31) 15 - 100 (0.95 - 6.31)	345 (105.16)	RR2418 RR2418 RR2418
	Orifice	Lateral	Orifice Spaci	ing	n Lateral Lengt Pipe Material	th (ft) Top View	Coupling	assembly to reduce the pump flow rate requirement to only 50 gpm (3.14L/sec).	V6404A V6605A	1.50 (38) 1.50 (38) 1.50 (38) 1.50 (38)	15 - 100 (0.95 - 6.31) 15 - 100 (0.95 - 6.31) 15 - 100 (0.95 - 6.31)	<u>345 (105.16)</u> 345 (105.16)	RR2418 RR2418
	(inches)	(inches)	(feet)	Schedule 40	Class 200 Class	<u>ss 160</u>		Urenco only warrants Automatic Distributing Valves when used in con- junction with High-Head Effluent Pumps with Biotube® pump vaults to provide pressure and flow requirements, and to prevent debris from	V6606A	1.50 (38) 1.50 (38)	15 - 100 (0.95 - 6.31)	345 (105.16)	RR2418
	3/16 3/16	1.25	2	46 52.5	54 62.5	56 62.5	Distributing valve	fouling valve operation. An inlet ball valve, a section of clear pipe, and a union for each outlet are provided for a complete assembly that is easy to maintain and monitor. Ideal valve location is at the high point in the	Table 1. Automat	tic Distributing Valve As	sembly Headloss E	quations	ae, apm (L/sec)
	3/16 3/16	1.25	3	60 72	69 84		Union	system. Refer to Automatic Distributing Valve Assemblies (NTP-VA-1) for more information.	V4400A	$H_{\rm L} = 0.085 \times Q^{1.45}$		10 - 40 (0.63 - 2	<u>(.52)</u>
	3/16 3/16	1.25	<u> </u>	<u>85</u> 96	95 108	100 Clear pipe	\bigcirc	Standard Models	V6000A V6400A V6600A	$H_{L} = 0.0005 \text{ kg}^{-1} + 3.5 \text{ k}$ $H_{L} = 0.0049 \text{ kg}^{2} + 3.5 \text{ k}$	(1 - e ^{-0.060})	<u>15 - 70 (0.95 - 4.4</u> <u>15 - 70 (0.95 - 4.4</u>	42)
	3/16	1.5	1.5 2	49.5 60 70	55.5 68	57 70 80 Ball valve —		V4402A, V4403A, V4404A, V4605A, V4606A, V6402A, V6403A, V6404A, V6605A, V6606A.	35				+ <u>c</u> ,
	3/16	1.5	2.5	70	87	80 Elbow 90 Elbow		Product Code Diagram	£ 30			V66	300A
	3/16	1.5	5	<u> </u>	104 120	108 125	Side View	V 6 4 03 A	qu 25 20			Ve	
	3/16	2	1.5	76.5	81	84 102		Discharge connections installed: 02 = 2 connections 03 = 3 connections	line 15	V4600A	V4400A		
	3/16	2	2.5	105	112.5	<u>117.5</u> 132	Elbows	O4 = 4 connections O5 = 5 connections O6 = 6 connections					
	3/16	2	4	144	152	160 185		Available discrarge connections: 4 = 4 available connections 6 = 6 available connections later/available connections			25 40 45 50		
	3/16	2	6	186	198 24	210 Bottom View		$\begin{array}{l} 4 &= 1.25 (32) \\ 6 &= 1.50 (40) \end{array}$	about 5	5° of head for distribut	35 40 45 50 w (gpm)	55 00 65	3 70
	7/32	1	2	24	30			Materials of Construction	about				
	7/32	1	3	30	39			All Fittings Sch. 40 PVC per ASTM specification Unions Sch. 80 PVC per ASTM specification					
	7/32		5	45	55 60			Ball Valve Sch. 40 PVC per ASTM specification Clear Pipe Sch. 40 PVC per ASTM specification					
	7/32	1.25	1.5	31.5	36	37.5		<u></u> _					
	7/32	1.25	2.5	42.5	50 57	40 52.5 60 0renco Systems® Inc. , 814 Airway	Ave., Sutherlin, OR 97479 USA • 800-348-98	43 • 541-459-4449 • www.orenco.com NTD-SF-VA-1	NTD-SF-VA-1	Orenco Systems® Inc. , 814 Airway /	Ave., Sutherlin, OR 97479 USA • 800-3	348-9843 • 541-459-4449 • 1	www.orenco.com
	7/32	1.25	3 4 5	60 70	68 80	72 80 FEFT	pump curve	Rev. 1.1, © 09/14 Page 1 of 2	Rev. 1.1, © 09/14 Page 2 of 2				
	., 54	1.43	Table A-2	2		130 WF1	5HH	·	SERIES: WE		pui inter	np chal rpolated form	2000 galle
	d (ft)	Orif	ice Discharge	Rates (gpm)		120			SIZE: 3/4" SOL RPM: 3500 8	201		1	- 00110
		1/8	5/32	3/16 0.59	7/32 1/4 0.80 1.04	110 WE20H		→ 5 GPM		d d	eptn from bottom 0	inches tank v	ioiume per
				0.72 0.83	0.98 1.28 1.13 1.47	. 100		5FT			1		25.659
<text></text>		0.41 0.45	0.64 0.71	0.93 1.02	1.261.651.381.80	90 WE15H		performance curve of select	ted pump		3		51.44J 77.34
<text><text><text><text><text></text></text></text></text></text>		0.49 0.52	0.76 0.81	1.10 1.17	1.491.951.602.08	70 VETUH					4		103.37
<text></text>		0.55 0.58	0.86 0.91	1.24 1.31	1.69 2.21 1.78 2.33	60 WE07H					6		155.79
<text></text>	luals grea	ter than 10 feet or f	for orifice diameter	rs greater than 1/4 i	inch, the equation <u>must</u>	t be 50 WE05Rt					7		182.1
<section-header><text><text><text><text> and a data data part of a data data part of a data data data part of a data data data data part of a data data data data data data data d</text></text></text></text></section-header>	and verif	fy with Table A-2.	pressure is not a v	whole number. For	large systems use the	40					9		235.35
<section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>						30 WE03M					10 11		262.1 289.0
<section-header><text><text> A mathematical and a mathematical mathematical and a mathematical and a ma</text></text></section-header>	num o	f 3 to 5 doses	per day at de	esign flow		20 WE03L					12		316.03
						10					13 14		343.17 370.4
<text> a the first is a state of the fi</text>						0 10	20 30 40 5	0 60 70 80 90 100 110 1	20 130 140 150	0 160 GPM	15		397.83
<section-header></section-header>	DH = 1	.7.83				MOL	system ope	erating point			16 17		425.34 452.9
<section-header><section-header> automatic bit interventions</section-header></section-header>						Ora Nun	ber HP Phase Volts RPM Impeller Diameter (i	Maximum Locked Rotor KVA Full Load Resistance Power Weig in.) Amps Amps Code Efficiency % Start Line-Line Cable Size (lbs.	ht)		18		480.75
<section-header><section-header></section-header></section-header>	numbe	er				WEG WEO WEO	111 113 111 208 111 0.33 111 1750 5.38	10.7 30.0 M 34 11.9 1.7 6.8 19.5 K 51 9.1 4.2 4.9 14.1 L 53 14.5 8.0 10.7 20.0 M 54 11.9 1.7			20		508.64
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<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header> Sharebase Sharebase Sharebase<!--</td--><td>Si</td><td>imple></td><td>x Cont</td><td>trol Pa</td><td>nels</td><td>Submittal Data Sheet</td><td></td><td></td><td></td><td></td><td>29</td><td></td><td>794.54</td></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Si	imple >	x Cont	trol Pa	nels	Submittal Data Sheet					29		794.54
Applications Base multiple main productions for productions fo				i		1-800-348-9843	Circulary Court	nal Danala (a antinua d)			30 31		823.83 853.2
<text><image/> static inclusion: Springen These grands in the part of the part o</text>	App S seri	lications es control panels a	re a popular choic	e for a simplex	General Standard features in	clude circuit breakers, an	Simplex Cont	roi Paneis (continued)			32		882.80
<text><image/> specific indication of and series of and and series of and and series of a</text>	motor tactor	and alarm system. , which increases s	These panels inclusystem life by reduc	ude a motor con- cing the load	automatic/manual/of alarm with auto rese	ff toggle switch, and an audible/visual et. Other standard and optional features	Standard Featur	es			33 34		912.4 942.29
the number is the first first for the first	requir have a	ements on the inpu a separate "on" and	It switches. S serie d "off" controls for	es panels also the motor and	are listed on page 2. be used. Listed per U	Any input sensor with contacts can JL 508; a UL-Canada listing is available.	Feature Motor-Start Contactor	Specification(s)	n at 50% of ELA)		35		972.2
$f: S^2 = \frac{f(x) + 1}{f(x) + 1} + \frac{f(x) + 1}{f(x) + $	240 V	AC.	rs up to T np at 120	vac or 3 np at	Standard Mod	dels	Pump Circuit Breaker	240 VAC: 16 FLA, 3 hp, 60 hz; 2.5 million cycles at FLA (10 millio 20 amps, OFF/ON switch. Single pole 120 VAC, double pole 240	n at 50% FLA). VAC. DIN rail mounting with t	thermal	36 37		1002.29
Noneclature \$		6			S1, S2		Controls Circuit Breaker	magnetic tripping characteristics. 10 amps, OFF/ON switch. Single pole 120V. DIN rail mounting v	vith thermal magnetic tripping		38		1062.8
Signal colspan="2">1 $\frac{1}{100}$ 1		Centrel Panel	-		Nomenclature	e	Toggle Switch	Characteristics. Single pole-double throw HOA switch rated at 20 amps. 95 dB at 24" workle-tone sound			39 40		1093.26
$\frac{1}{100 \text{ km}^2} = \frac{1}{100 \text{ km}^2} + \frac{1}{10$		Section of the			S 1 PT CT Indicates select	ected options (see page 2).	Audible Alarm Silence Relay	120 VAC, automatic reset. DIN rail mount.			41		1154.5
					Indicates voltage $1 = 120$ VAC		Visible Alarm	7/8" diameter red lens, "Push-to-silence." NEMA 4X, 1-watt LE	ED, 120 VAC.		42		1216.3
Specifications 45 127.4		E State Stat	(Ui		∠ = 240 VAC						44		1247.50 1279 7
Image: Specifications is stated as stated.Arrow is stated as stated.<							Optional Feature	es			46		1310.11
Feature Specifications) Specifications 55 159.8.4 Panel Enclosure: Measures 11.5" high x 33" wide x 5.4" icep. NEMA 4X rated. Constructed of UV resistant fiberglass; hinge and latch are stainless steel. CT 56 163.1.1 Via the unconstructed of UV resistant fiberglass; hinge and latch are stainless steel. CT 56 163.1.1 Via the unconstructed of UV resistant fiberglass; hinge and latch are stainless steel. CT 56 163.1.1 Via the unconstructed of UV resistant fiberglass; hinge and latch are stainless steel. CT 56 163.1.1	1	-		-/1			Feature	Specification(s)	Product Code A	Adder	47 19		1341.6 1372 20
Programmable Timer 120 VAC, Repeat cycle from 0.05 seconds to 30 hours. Separate variable PT 50 1436.9 controls for OFF & 0.01 king and not with the second s		tertberneter 2					Intrinsically Safe Control Relays	120 VAC. Listed per UL 698A, for Class 1 Div. 1, groups A, B, C, D hazardous locations. Larger enclosure required.	IR		49		1405.0
Fedure Specifications: Measures 11.5° high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high g as the steinless steel. CT 51 1408.5 Year Decifications: Measures 11.5° high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant fiberglass; high x 9.3° wide x 5.4° deep. NEMA 4X rated. Constructed of UV resistant f		The second secon					Programmable Timer	120 VAC, Repeat cycle from 0.05 seconds to 30 hours. Separat controls for OFF & ON time periods.	e variable PT		50 51		1436.92
Nature Specification(s) Specifica	ĺ						neaundant Uff Kelay Heater	120 VAC, provides a secondary off. Sounds alarm on low level condition. DIN rail mount. Anti-condensation heater. Self-adjusting: rediates additional	нт		52		1501.1
Specifications 54 1565.8 Elapsed Time Meter 120 VAC, 7-digit, non-resettable. Limit of 99,999 hours; ETM 55 1598.4 Specification(s) Event Counter 120 VAC, 6-digit, non-resettable. CT 56 1631.2 Panel Enclosure: Measures 11.5" high x 9.3" wide x 5.4" deep. NEMA 4X rated. Constructed of UV resistant fiberglass; 7/8" green lens. NEMA 4X, 1-watt LED, 120 VAC. PRL 57 1663 1696.9 1730. 1730. 1730. 1730. 1730. 101 br i// Different trainless steel. 50 1730. 1730.			1				Disconnect Switch	wattage as temperature drops. Single pole-single throw, 20 amps, motor rated at 1 hp.	DS		53		1533.41
Specifications CT 1631.1 Feature Specification(s) Panel Enclosure: Measures 11.5" high x 9.3" wide x 5.4" deep. NEMA 4X rated. Constructed of UV resistant fiberglass; hinge and latch are stainless steel. CT 56 1631.1 100 AC, 6-digit, non-resettable. 7/8" green lens. NEMA 4X, 1-watt LED, 120 VAC. PRL 57 1663 101 AC 102 AC, 6-digit, non-resettable. 101 AC 101 AC 101 AC 101 AC 101 AC 103 AC 101 AC 103 AC 101 AC		(All					Elapsed Time Meter	120 VAC, 7-digit, non-resettable. Limit of 99,999 hours; accurate to 0.01 hours.	ETM		54 55		1598.41
Feature Specification(s) Panel Enclosure: Measures 11.5" high x 9.3" wide x 5.4" deep. NEMA 4X rated. Constructed of UV resistant fiberglass; hinge and latch are stainless steel. 59 1730. 01 100.000 (0.000	Spe	cifications					Event Counter Pump Run Light	120 VAC, 6-digit, non-resettable. 7/8" green lens. NEMA 4X, 1-watt LED, 120 VAC.	CT PRL		56 57		1631.1 1662
Panel Enclosure: Measures 11.5" high x 9.3" wide x 5.4" deep. NEMA 4X rated. Constructed of UV resistant fiberglass; hinge and latch are stainless steel.	Featu	re	Specification(s))							58		1696.91
	Panel	Enclosure:	Measures 11.5" hinge and latch a	high x 9.3″ wide x 5.4 are stainless steel.	4" deep. NEMA 4X rated.	Constructed of UV resistant fiberglass;					59		1730.0

Recomme	and A2 Washir ended Standa	ngton State ards and G	e Departmei uidance for	nt of Healt Performa	th nce,		Technical Data She	et	Orenco [®] <i>Tecl</i>	hnical Data Shee	t		
Distributi	on, Design, a ion Systems	(guidelines	s) published	in 2009	ressure	Distribu	ting Valve	S	Specifications Model Inlet Size, in. (r	nm) Outlets Size, in. (mm)	Flow Range, gpm (L/sec)	Max Head, ft (m)	Min. Enclosure
	Pressure Distrib	oution Systems - Reco Effective Date	ommended Standards a :: July 1, 2009	and Guidance		Applications		General	V4402A 1.25 (32) V4403A 1.25 (32)	1.25 (32) 1.25 (32)	10 - 40 (0.63 - 2.52) 10 - 40 (0.63 - 2.52)	170 (51.816) 170 (51.816)	VB1217 VB1217
		Table	a A_1			Automatic Distributing Valve Asse tiple zone distribution systems in drainfields	mblies are used to pressurize mul- cluding textile filters, sand filters and	Orenco's Automatic Distributing Valve Assemblies are mechanically oper- ated and sequentially redirect the pump's flow to multiple zones or cells in a distribution field. Valve actuation is accomplished by a combination	V4404A 1.25 (32) V4605A 1.25 (32)	1.25 (32) 1.25 (32)	10 - 40 (0.63 - 2.52) 10 - 40 (0.63 - 2.52)	170 (51.816) 170 (51.816)	VB1217 RR2418
		Lateral Design T	Table (continued)			arannolasi		of pressure and flow. They allow the use of smaller horsepower pumps on large sand filters and drainfields. For example, a large community drainfield requiring 200 appr (1.8 QCI (reg) con use a circline when	V4606A 1.25 (32) V6402A 1.50 (38)	1.25 (32) 1.50 (38)	10 - 40 (0.63 - 2.52) 15 - 100 (0.95 - 6.31)	170 (51.816) 345 (105.16)	RR2418 RR2418
Orifice	Lateral	Orifice Spac	Maximur	n Lateral L Pipe Materia	Length (ft)	Top View	Coupling	assembly to reduce the pump flow rate requirement to only 50 gpm (3.14L/sec).	V6403A 1.50 (38) V6404A 1.50 (38)	1.50 (38) 1.50 (38)	15 - 100 (0.95 - 6.31) 15 - 100 (0.95 - 6.31)	345 (105.16) 345 (105.16)	RR2418
(inches)	(inches)	(feet)	Schedule 40	Class 200	Class 160		Coupling	Orenco only warrants Automatic Distributing Valves when used in con- junction with High-Head Effluent Pumps with Biotube® pump vaults to	V6605A 1.50 (38) V6606A 1.50 (38)	1.50 (38) 1.50 (38)	15 – 100 (0.95 – 6.31) 15 – 100 (0.95 – 6.31)	345 (105.16) 345 (105.16)	RR2418 RR2418
3/16 3/16	1.25 1.25	2 2.5	46 52.5	54 62.5	56 62.5		Distributing valve	fouling valve operation. An inlet ball valve, a section of clear pipe, and a union for each outlet are provided for a complete assembly that is easy	Table 1. Automatic Dis	tributing Valve Ass	embly Headloss E	quations	
3/16 3/16	1.25 1.25	3 4	60 72	69 84	72 88		Union	to maintain and monitor. Ideal valve location is at the high point in the system. Refer to Automatic Distributing Valve Assemblies (NTP-VA-1) for more information.	Model Series V4400A	Equation $H_L = 0.085 \times Q^{1.45}$		Operating Ra 10 - 40 (0.63 -	. ange, gpm (L/sec) – 2.52)
3/16 3/16	1.25 1.25	5 6	85 96	95 108	100 114	Clear pipe	O	Standard Models	V4600A V6400A	$H_L = 0.085 \text{ x } Q^{1.58}$ $H_L = 0.0045 \text{ x } Q^2 + 3.5 \text{ x } (1 - 10.0045 \text{ x } Q^2)$	- e ^{-0.060})	10 - 25 (0.63 – 15 - 70 (0.95 –	- 1.57) - 4.42)
3/16 3/16	1.5	1.5 2	49.5 60	55.5 68	57 70			V4402A, V4403A, V4404A, V4605A, V4606A, V6402A, V6403A, V6404A, V6605A, V6606A.	V6600A	$H_{\rm L} = 0.0049 {\rm x} {\rm Q}^2 + 5.5 {\rm x} (1 - 1)^2$	- e ^{-0.10})	15 - 70 (0.95 -	- 4.42)
3/16 3/16	1.5	2.5	70 78	77.5 87	80 90	Ball valve		Product Code Diagram	€ 30			v	√6600A
3/16 3/16	1.5	4 5	92 110	104 120	108 125		Side View	V 6 4 03 A	Ald 25				
3/16 3/16	1.5	6 1.5	120 76.5	138 81	144 84			I Assembly Discharge connections installed: 02 = 2 connections	4 20	V4600A	V4400A	v	/6400A
3/16 3/16	2	2	92 105	98 112.5	102 117.5		Elbows	$\begin{array}{l} 03 = 3 \text{ connections} \\ 04 = 4 \text{ connections} \\ 05 = 5 \text{ connections} \\ 06 = 6 \text{ connections} \end{array}$					
3/16 3/16	2 2	3 4	120 144	129 152	132 160			Available discharge connections: 4 = 4 available connections 6 = 6 available connections	¥ 5 0				
3/16 3/16	2	5	165 186	180 198	185 210	Bottom View	·	Intel/outlet size, in. (mm): 4 = 1.25 (32) 6 = 1.50 (40)	0 5 10 15	20 25 30 Signature	35 40 45 50	55 60	65 70
7/32 7/32	1 1	1.5 2	19.5 24	24 30				Distributing valve	about 5' of h	ead for distributio	on valve		
7/32 7/32	1 1	2.5	27.5 30	35 39				All Fittings Sch. 40 PVC per ASTM specification					
7/32 7/32	1 1	4 5	36 45	44 55				Unions Sch. 80 PVC per ASTM specification Ball Valve Sch. 40 PVC per ASTM specification					
7/32 7/32	1 1.25	6 1.5	48 31.5	60 36	37.5			Clear Pipe Sch. 40 PVC per ASTM specification					
7/32 7/32	1.25 1.25	2 2.5	38 42.5	44 50	46 52.5								
7/32 7/32	1.25 1.25	3 4	48 60	57 68	60 72	Orenco Systems® Inc. , 814 Airway A	ve., Sutherlin, OR 97479 USA • 800-348-98	43 • 541-459-4449 • www.orenco.com NTD-SF-VA-1 Rev. 1.1, © 09/14 Page 1 of 2	NTD-SF-VA-1 01 Rev. 1.1, © 09/14 Page 2 of 2	renco Systems® Inc. , 814 Airway Ave	e., Sutherlin, OR 97479 USA • 800-3	348-9843 • 541-459-4449	• www.orenco.com
7/32	1.25	5 Table A-	- 2 70	80	80	FEET	pump curve				pui	mp cha	amber '
	Orifi	ice Discharge	Rates (gpm)			120 WE15	HH		SIZE: 3/4" SOLIDS		inter	polated form	n 2000 gallon
Head (ft)	1/8	Orific 5/32	e Diameter (in) 3/16	7/32	1/4	110 WE20H			1750	de	pth from bottom	inches tank	< volume per ir
2 3			0.59 0.72	0.80 0.98	1.04 1.28	. 100					0 1		25.6597
4 5	0.41	0.64	0.83 0.93	1.13 1.26	1.47 1.65	90 WE15H					2		51.4417
6 7	0.45 0.49	0.71 0.76	1.02 1.10	1.38 1.49	1.80 1.95	80 WE10H		performance curve of select			3		//.346 103.3732
<u>8</u> 9	0.52	0.81	1.17 1.24	1.60 1.69	2.08	70 WEOZH					5		129.523
TO For residuals or	0.38	for orifice diamete	1.51	nch the equation	n must be	60 WE05RTH					6 7		182.195
used. This is als	so true if the residual erify with Table A-2.	pressure is not a v	whole number. For	large systems us	se the	50 WE05H	\times				8		208.713
						40 ×					10		262.125
minimum	of 2 to 5 dosos	nor dav at d	osign flow			20 WE03L					11		289.017
mmum	01 5 10 5 00585	sper day at u	esigninow			10					13		343.174
						0					14		370.44
the TDH =	17.83					0 10	20 30 40 5 system ope	0 60 70 80 90 100 110 1. rating point	20 130 140 150 16	0 GPM	16		425.3467
						MODI	ELS	Maximum Locked Rotor KVA Full Load Resistance Power Weig	nt l		17 18		452.988 480.7552
order num	her					Numb WE031 WE031	In Pridse Voits RPW Diameter (i 1L 115 208 1	n.) Amps Amps Code Efficiency Start Line-Line Cable Size (lbs. 10.7 30.0 M 54 11.9 1.7 6.8 19.5 K 51 9.1 4.2)		19		508.648
	Dei					WE031 WE031	2L 0.33 230 1750 5.38 3M 1 208 1 1 5 1	4.9 14.1 L 53 14.5 8.0 10.7 30.0 M 54 11.9 1.7 6.8 19.5 K 51 9.1 4.2			20 21		536.6677 564.81
						WE031 WE051	ZM Z30 1H 115 3450 3.56	4.9 14.1 L 53 14.5 8.0 14.5 46.0 M 54 7.5 1.0 14/3 60			22		593.085
											23 24		621.483 650.008
						~.~					25		678.661
art						\sim					26 27		707.4412 #VALUE
C	imploy	. Cont		nala	Subm	ittal OSI					28		765.3847
3	ounhie)		uvi ra	IIGIZ	Data Sh	eet Incorporated 1-800-348-9843					29 30		794.5477 823.839
An	plications	_		General			Simplex Cont	rol Panels (continued)			31		853.26
S se	eries control panels a	re a popular choic	ce for a simplex	Standard feat	ures include circuit nual/off togglo switt	breakers, an ch. and an audible/viewel	Ctondard F 1	· · · · · · · · · · · · · · · · · · ·		_	32 33		882.808 912.48(
tact	tor, which increases s uirements on the inpu	system life by redu it switches. S serie	icing the load es panels also	alarm with aut are listed on p	to reset. Other stand bage 2. Any input se	lard and optional features	Stanuard Featur	50		_	34		942.292
have	e a separate "on" and accommodate motor	d "off" controls fo rs up to 1 hp at 120	r the motor and) VAC or 3 hp at	be used. Liste	d per UL 508; a UL-C	Canada listing is available.	Feature Motor-Start Contactor	Specification(s) 120 VAC: 16 FLA, 1 hp, 60 hz; 2.5 million cycles at FLA (10 millio 240 VAC: 15 FLA, 2 hp, 60 hz; 2.5 million cycles at FLA (10 millio	n at 50% of FLA).		35 36		972.228 1002.293
240	VAC.			Standard	Models		Pump Circuit Breaker	230 VAC. 10 FLA, 3 HP, 00 HZ; 2.3 MIIION CYCles at FLA (10 millio 20 amps, OFF/ON switch. Single pole 120 VAC, double pole 240 magnetic tripping characteristics.	N AL 50 /0 FLA). VAC. DIN rail mounting with thermal		37		1032.488
		3		51, 52			Controls Circuit Breaker	10 amps, OFF/ON switch. Single pole 120V. DIN rail mounting v characteristics.	vith thermal magnetic tripping		38 39		1062.81 1093.268
	Lentres Panel OG			Nomencl	ature		Toggle Switch Audible Alarm	Single pole-double throw HOA switch rated at 20 amps. 95 dB at 24", warble-tone sound.			40		1123.85
					ates selected options (see	: page 2).	Audible Alarm Silence Relay Visible Alarm	120 VAC, automatic reset. DIN rail mount.	D 120 VΔC		41 42		1185.416
				Indicates vol 1 = 120 VAC 2 = 240 VAC	ltage						43		1216.393
	E STATE										44 45		1278.742
							Optional Feature	S		_	46		1310.114
	1						Feature	Specification(s)	Product Code Adder		48		1373.253
	The second secon						Control Relays Programmable Timer	C, D hazardous locations. Larger enclosure required. 120 VAC, Repeat cycle from 0.05 seconds to 30 hours. Separat	e variable PT		49		1405.021
							Redundant Off Relay	controls for OFF & ON time periods. 120 VAC, provides a secondary off. Sounds alarm on low level	RO		50		1468.954
							Heater	condition. DIN rail mount. Anti-condensation heater. Self-adjusting: radiates additional wattage as temporature drope	HT		52		1501.120
	There are a start		- C				Disconnect Switch Elapsed Time Meter	Single pole-single throw, 20 amps, motor rated at 1 hp. 120 VAC, 7-dioit, non-resettable, Limit of 99 999 hours:	DS FTM		55 54		1565.851
							Event Counter	accurate to 0.01 hours. 120 VAC, 6-digit, non-resettable.	CT		55		1598.417
Sp	pecifications						Pump Run Light	7/8" green lens. NEMA 4X, 1-watt LED, 120 VAC.	PRL		57		1663.95
Fea Pan	nture nel Enclosure:	Specification(s Measures 11.5") high x 9.3″ wide x 5.4	″ deep. NEMA 4X	rated. Constructed of	of UV resistant fiberalass:					58 50		1696.917
51 F	Panel Ratings:	hinge and latch 120 VAC, 3/4 hp.	are stainless steel. 14 amps, single phas	e, 60 Hz.							60		1763.25

e to achiev





Feature	Specification(s)
Panel Enclosure:	Measures 11.5" high x 9.3" wide x 5.4" deep. NEMA hinge and latch are stainless steel.
S1 Panel Ratings:	120 VAC, 3/4 hp, 14 amps, single phase, 60 Hz.
S2 Panel Ratings:	240 VAC, 2 hp, 14 amps, single phase, 60 Hz.

SCOPE OF WORK

The following is a brief summary of work to be done under permits issued by the County of Santa Clara.

- 1. Install new 1500 gallon septic tank and pump chamber (with traffic rated access risers and lids if needed for the proposed depth of burial check with manufacturer before installation). These tanks must be tested to show they are water tight. This testing is to be done as specified by Environmental Health (EH). EH must witness testing and confirm tanks are "watertight". 2. Install new leach trenches as shown.
- 3. Install pump and pump accoutrements (splice box, floats, discharge assembly, et cetera).
- 4. Install control and alarm panel as per manufacturer's directions and as shown.
- 5. All electrical wiring must be done by a licensed Electrician.
- 6. Install Monitoring Wells as noted.
- 7. Calibrate the system to provide adequate squirt at end of each leach trench, confirm the proper operation of all equipment, and have these items verified by the County and system designer.
- All material and methods shall comply with Santa Clara County regulations and policies. All work must be inspected and approved before covering it.
- Nothing herein should be considered to be a warranty or guarantee of any kind and the designer liability is hereby limited to \$500 or the fee paid for the design whichever is 655

olume ank volumes

n gallons float function and elevation

off, tank volume 262

timer on, tank volume 425.4

timer override

alarm





Wastewater Design Flows for



tion; normally-closed "N" float switches have a red cap. "P" and "N" model float switches use Super Vu-Tron® electrical cords for superior

J = 10 fm (J m) J = 10 ft (3 m), stand = 20 ft (6 m) J = 30 ft (9 m) J = 50 ft (15 m)

PD = pump valit (standard float settings)
 V = pump valit (standard float settings)
 STEP = Standard float settings for STEP with redundant off
 SVCOM = Standard float settings for VCOM simplex

NTD-MF-MF-1 Rev. 3.0, © 03/17 Page 1 of 2

field set
 elbow.style //

pump basir

Float stem length: Blank = no float stem (floats and collars only) 19, 21, 27, 33, 37, 39, 45, 51, 57, 66 = stem length, in. 5, 11 = stem length, in. (for elbow-style float brackets)

Foat switch models (listed in order from the top of the float stem down): B, C, G, N, P

Number of float switches (when using multiples of the same float switch model): Blank = no multiples of the same float switch model

When ordering float switch assemblies, remember to list float switches from the top of the float stem down. An "MEPBN-" nomenclature indi-

chemical and water resistance.

Standard Models

MF 4 PPPN - FS - 50

B, C, G, N, P

Float switch assembly

Product Code Diagram

459-4449 • www.orenco.con





STERCO S Y S T E M S Technical Data Sheet **Float Switch Assemblies** Applications General Float switches are used to signal liquid level positions for alarm and All models listed are UL listed and CSA certified for use in water or sewpump control applications. Orenco float switch assemblies can be age. Non-mercury float switches (models B, C, N, and P) are used where mounted in pump vaults, effluent screens, pump basins, and risers. components containing mercury are prohibited. Float switches are typically ordered in assemblies that include one or more switches mounted on a 1-inch PVC float stem. ABS float collars are used to provide secure mounting that is easily adjustable. Normally-open "P" float switches have a blue cap for easy identifica-



The "On" and "Off" positions describe normally open floats. For normally closed floats, the functions are reversed.

Materials of Construction

Materials	of Construction	cates one "P" switch at the top of the stem, one "B" in the middle of
Float housing	Impact-resistant, noncorrosive PVC plastic for use in liquids up to 140° F (60° C)	the stem, and one "N" switch at the bottom of the stem; an "MF2PN-" indicates "P" switches at the top and middle of the stem, and one "N" switch at the bottom of the stem
Float cord, P and N models	Flexible 2-conductor (UL, CSA) SJOOW; Super Vu-Tron® Supreme, yellow	
Float cord, All other models	Flexible 2-conductor (UL, CSA) SJOW; water-resistant (CPE); neoprene coating	
Float collar	ABS	

	_
renco Systems [®] Inc. , 814 Airway Ave., Sutherlin, OB 97479 USA • 800-348-9843 • !	541

S Y S T E M S hnical Data Sheet Signal- and Motor-Rated Float Switch Matrix Float State¹ Type IR² Volts Amps hp Tether X Y Drawdown³ Signal-rated mechanical floats⁴ (for control switch applications) Yes n/a n/a 2.00 in. 1.50 in. 0.50 in. 2.00 in. Yes n/a n/a 2.00 in. 1.50 in. 0.50 in. 2.00 in. P Model^a Normally open Mechanical N Model^a Normally closed Mechanical Motor-rated floats⁴ (for pump switch applications) B Model Normally open Mechanical No 120V 13A 1/2 hp 2.00 in.^b 2.50 in. 1.50 in. 4.00 in.

				240V	13A	1 hp	3.00 in.	3.00 in.	1.50 in.	4.50 in.
							4.00 in.	3.25 in.	1.50 in.	4.75 in.
C Model	Normally open	Mechanical	No	120V	13A	1/2 hp	2.00 in.	3.00 in.	2.50 in.	5.50 in.
				240V	15A	2 hp	3.00 in. ^b	3.50 in.	3.00 in.	6.50 in.
							4.00 in.	4.00 in.	3.50 in.	7.50 in.
							5.00 in.	4.50 in.	4.00 in.	8.50 in.
							6.00 in.	5.25 in.	4.25 in.	9.50 in.
G Model	Normally open	Mercury	Yes	120V	15A	3/4 hp	2.00 in.	1.50 in.	3.00 in.	4.50 in.
				240V	15A	2 hp	3.00 in. ^b	1.75 in.	3.00 in.	4.75 in.
							4.00 in.	2.00 in.	3.50 in.	5.50 in.
a. Suitable for use	with VCOM and MVP.									

b. Standard tether length Notes

VCOM panels.

¹ State: normally open or normally closed The default state of a float — normally open or normally closed — refers to the contact positions in the float when the float is resting (down). Float switches have an internal contact. The terms "normally open" (N/O) and "normally closed" (N/C) refer to the state of the float which contain frainfull update (vel) and instanting operations (vel) felds to an equal or the form of the form position. A normally open float switch contact (ori) in the down position and a normally closed float switch has a closed contact (ori) in the down position. Therein the part of index switches that are normally open. One notable exception is the redundant off and low-level alarm function that requires a normally closed float switch, except with MVP and

² IR (intrinsically safe relay) Approved for use with intrinsically safe, Class I, Division 1 applications, where reliable float switch operation with very low current is required.



switches. In some systems, a float switch is used to directly start and stop a pump. In this application, the current that is running the pump passes through the float switch as well, and the float switch must be "motor-rated." In most instances, a motor-rated float switch can be used as a signal float switch.







MAY	22, 2022
SCALE AS	NOTED

BY SRH

PAGE

onsite 2 **SS-2**

1796.62725

61



source Washington State Department of Health, Pressure Distribution Systems

Operation and Maintenance

The systems must be monitored and maintained at a frequency commensurate with the site,

soil, system complexity and use patterns. As a minimum, the items in 3.1 - 3.5 be inspected at six months and then yearly, after the system is put into use. The system designer will perform the first inspection before the system is put into use and record the initial data in a construction record. Refer to the system construction record for initial readings and settings. This pressure distribution systems must be inspected and / or serviced on a yearly basis, which shall include but not be limited to the following:

3.1. Evaluate Drainfield

3.1.1. for indications of surfacing effluent. 3.1.2. for appropriate vegetation, landscaping impacts, ponds, etc.

3.1.3. for absence of heavy traffic.

3.1.4. for inappropriate building.

3.1.5. for impervious materials or surfaces. 3.1.6. for abnormal settling or erosion.

3.2. Evaluate Laterals

3.2.1. for residual pressure at the distal ends. Confirm that it is the same as those recorded on the construction record. If not the same, laterals and orifices need to be cleaned.

3.2.2. for equal flows in each lateral.

3.2.3. for need for cleaning. Clean laterals and orifices as necessary. 3.3. Measure Pump Run Time per Cycle and Drawdown

Compare these values with those recorded in the construction record. If not the same, evaluate the system for improperly set timer control, float switches, clogged laterals, plugged orifices.

3.4. Test Alarms

Test alarms for proper functioning (high and low liquid level). Pressure Distribution Systems - Recommended Standards and Guidance

Effective Date: July 1, 2012

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3.5. Evaluate Septic Tank and Pump Chamber

3.5.1. for sludge and scum accumulations; pump when the sludge and scum thickness total 1/3 of the depth of the tank.

3.5.2. for clogging, damage, and proper placement of outlet baffle screen. Clean each

time it is inspected or as needed to avoid clogging.

3.5.3. for signs of leaking in tanks and risers. Repair or replace if necessary.

3.5.4. for risers and lids being above grade and having lids that are secure.

3.5.5. for properly functioning of floats. Movement should not be restricted. Floats should be positioned correctly and provide positive instrumentation signals.

Some additional notes:

1. Designer is required to submit final letter that system works per plan and was installed per plan.

2. Designer is required to submit final as-built drawing to the County.

3. Dosing needs to be 3-5 times daily.

4. Thrust Blocking

All pipes and fittings called out in this plan are to be solvent welded at joints and or fittings. According to Larry Workman on page 28 of *Plastic Piping Systems* published in 2011 by the Plastic Pipe and Fitting Association, 800 Roosevelt Road, Building C, Suite 312, Glen Ellyn, Illinois 60137 no thrust blocking is needed for solvent welded plastic pipe. 5. The leach trenches for this septic system shown in this plan are on slopes that exceed 20&.

the County requires a geotech report as described in Attachment D;

ATTACHMENT D

Geotechnical Report & Engineering Installation Plan Requirements for:

« Slopes Exceeding 20%

« Reduction of Horizontal Setbacks

When it is proposed to install an OWTS on slopes over 20% the County OWTS Ordinance, Code Section B11-83, requires that it be demonstrated "through a geotechnical report and complete engineering installation plan ... that use of the subsurface dispersal system will not permit sewage effluent to surface, degrade water quality, create a nuisance, affect soil stability, or present a threat to the public health or safety. The geotechnical report shall include, but not be limited to, soil percolation rates, contours, soil depth, seasonal groundwater elevation(s), location of all existing or proposed ground cuts, rock formations, soil stability, drainage, and other data as determined by the director and the County geologist."

Also, under Section B11-67(i)(6) regarding horizontal setback distances between the dispersal field and cut banks, embankments, steep slopes and unstable land masses, the Code allows for reduction of the required setback distance "...in accordance with recommendations provided in a geotechnical report by a registered civil engineer or professional geologist...". The following are the minimum requirements for the preparation of the geotechnical report and

engineering installation plan pertaining to the above provisions of the Code. 1. The geotechnical report must be prepared by a state registered civil engineer or a professional geologist certified as an engineering geologist or having similar geotechnical expertise as determined by the County geologist. The engineering installation plan must be prepared by a

state registered civil engineer, professional geologist, or registered environmental health specialist. The report and plan may be prepared by different authorized professionals.

2. Engineering Installation Plan Requirements:

a) The plan must be wet-stamped by the designer and initialed or signed.

b) The plan must include cross section(s) through the dispersal field that show dispersal line depths and details, and any benching that will be necessary to install the system.

c) Any OWTS proposed for installation on slopes between 30% and 40% shall require the use of pressure distribution methods, designed in accordance with applicable guidelines

in Part 4 of the Onsite Systems Manual. d) Any OWTS proposed for installation on slopes between 40% and 50% shall require the use of subsurface drip dispersal methods, designed in accordance with applicable

guidelines in Part 4 of the Onsite Systems Manual. e) The plan must include an erosion control plan, incorporating measures consistent with guidelines and requirements contained in Division C12, Chapter III of the Santa Clara

County Code (County Grading Ordinance).

f) The plan shall incorporate applicable recommendations contained in the geotechnical report regarding the avoidance or mitigation of slope stability concerns, including, as applicable, recommended horizontal setback distance(s) from cut banks, embankments, steep slopes, or any identified unstable land mass within 100 feet the dispersal field. 3. Geotechnical Report Requirements:

a) The report must specifically reference the engineering installation plan. If, at some future date, the dispersal field is appreciably modified an amended report must be submitted that references the modified plan.

b) The geotechnical report must discuss the geology, slope stability and seismic hazards, soils, groundwater, drainage, percolation rate, topography, cuts, vegetation and other pertinent site features.

c) The report shall include any recommendations deemed appropriate or necessary to mitigate potential slope stability, drainage or seepage concerns associated with either the installation or on-going operation of the proposed OWTS, including, as applicable, recommended horizontal setback(s) from any cut banks, embankments, steep slopes or

any identified unstable land mass.

d) The report must state specifically in the conclusion that the proposed OWTS will not (or other wording such as not likely to, risk is very low, etc.):

1) Permit sewage effluent to surface 2) Degrade water quality

Affect soil stability 3)

4) Present a threat to the public health or safety

5) Create a public nuisance

e) The geotechnical report shall be wet-stamped and signed by the responsible licensed professional.

NOTE:

Property owner will need to get an annual operating permit from Santa Clara County Environmental Health. The system will need to be checked by a qualified professional twice a year for the first, four years then annually. The property Owner will be required to have a maintenance contract with a gualified service professional. If there is water in the inspection wells, samples will need to be taken of this water and analyzed by a qualified analytical laboratory for E. coli bacteria on a regular basis.

Schutch R. Huge R. Hug
S.R. HARTSELL, R.E.H.S. P.O. BOX 342 PACIFICA, CA 94044 srhartsell@gmail.com (650) 888-2419
ONSITE WASTEWATER TREATMENT & DISPOSAL SYSTEM
16968 BOHLMAN ROAD SARATOGA, CA 95070 APN 517-30-013
MAY 22, 2022 SCALE AS NOTED
BY SRH PAGE
onsite 4 SS-4

COUNTY OF SANTA CLARA <u>General Construction</u> <u>Specifications</u>

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY _
- THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND DATED SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS. 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
- DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE
- DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.
- DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR
- DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN 3. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA.
- THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED. 6. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 9. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY
- INSPECTOR.
- ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
- UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18)
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

- THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
- PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.
- PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.
- IN ACCORDANCE WITH THE CALIFORNIA PROFESSIONAL LAND SURVEYORS' ACT (BUSINESS AND PROFESSIONS CODE) CHAPTER 15 SECTIONS 8771 AND 8725.1, CALIFORNIA PENAL CODE 605, AND CALIFORNIA GOVERNMENT CODE 27581, ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING ROADWAY/STREET MONUMENT. PROPERTY CORNER. OR ANY OTHER PERMANENT SURVEYED MONUMENT AND/OR AS SHOWN ON THIS TENTATIVE MAP SHALL ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE OCUNTY SURVEYOR OFFICE PRIOR TO DISTURBING SAID MONUMENTS. ALL DISTURBED OR DESTROYED MONUMENTS SHALL BE RESET AND FILED IN COMPLIANCE WITH SECTION 8771.

CONSTRUCTION INSPECTION

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
- INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM.
- THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEARING AND GRUBBING)

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS 3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION. TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
- TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
- FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED
- ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

UTILITY LOCATION, TRENCHING & BACKFILL

- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

<u>RETAINING WALLS</u>

- 1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL. 2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT
- INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

<u>GRADING</u>

- 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
- COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN. 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- 5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. D
RESIDENCE	±473	±28	±10.5/:
DRIVEWAY	±200	±175	±8.6/±
YARD	±225	±98	±9.8/=
TANK PAD	±29	±66	±4.9/±
TOTAL	±927	±367	

NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE.

- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE. 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
- 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE. 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND
- COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
- 11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
- 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.
- 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
- 14. TOTAL DISTURBED AREA FOR THE PROJECT 23,285 SF. 15. WDID NO.__
- 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

- 1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING: A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR
- GROVE OF TREES. B. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND
- SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION. C. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
- D. SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA
- BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

ACCESS ROADS AND DRIVEWAYS

- 1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT).
- 2. ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15 LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING.
- 3. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
- 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- . ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC..

STREET LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

SANITARY SEWER

1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY. 2. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

EPTH	
±4.4	
±6.4	
±5.1	
±6.6	

PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY

- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. 3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL
- UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- 5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED. 6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM SURVEY MONUMENT PRESERVATION IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED 3 BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED. A. 15 MILES PER HOUR (MPH) SPEED LIMIT
- B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
- TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367. 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION
- CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
- 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
- 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE
- 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL
- INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY
- INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING; A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC
- ROAD RIGHT-OF-WAY. C. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL 1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

CLARA TREE PROTECTION MEASURES MAY BE FOUND AT http://www.sccplanning.gov." SHALL STORM DRAINAGE AND STORMWATER MANAGEMENT

- 2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT CAS000004/ ORDER NO. 2013-0001-DWQ.
 - 2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
 - 3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW. 4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
 - 5. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (____ WERE) (____ WERE NOT) MINOR FIELD CHANGES – MARKED WITH THE SYMBOL (^). THERE (___WERE) (___ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL \triangle .

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PFRFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTERCONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.

- THE LANDOWNER/CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES. 2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG ALL
- PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY
- THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED DAMAGED, COVERED, DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

EXISTING TREE PROTECTION DETAILS

- SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
- 2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
- FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO
- THE GROUND AND SPACED NOT MORE THAN 10 FEET APART. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
- 5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS ISSUED BY: _____ DATE: _

ENCROACHMENT PERMIT NO.

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEARBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION APPLICATION AND A COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION AND A COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION AND A COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION AND A COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION AND A COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPLICATION AND A COMPLICATION AN AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED DATE _____ _____

COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DATE _____

COUNTY OF SANTA CLARA LAND DEVELOPMENT ENGINEERING & SURVEYING
GRADING/DRAINAGE PERMIT NO
ISSUED BY: DATE:

DATE:	ENGINEER'S NAME: _ HANNA & BRUNETTI	
	ADDRESS: _7651 EIGLEBERRY STREET, GILROY CA 95020	
	PHONE NO408 842-2173	
	FAX NO. 408 842-3662	
PROVED TENTATIVE MAR (OR PLAN)		
PROILESSION AF	PRELIMINARY	
- LA SI ELIS	IMPROVEMENT PLAN	1S
NO. 69278 E		
	FOR THE	
ST CIVIL	HOME GRADING AND DRAINAGE	
OF ENGINEER FROM RESPONSIBILITY	ON THE LANDS OF SINAPI	
OF CONSTRUCTION, THE PUBLIC		
	10300 DOLLMAN NOAD, LOS GATOS	

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DARRELL K.H. WONG

FILE(S) NO.

69278

R.C.E. NO.

Montexserend PROJEC 20 Lexington Reservoir A VICINITY MAP NO SCALE

SCOPE OF WORK

- 1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION
- 2. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND.
- CLEAR AND GRUB BUILDING PAD AND DRIVEWAY.
- BUILDING PAD AND DRIVEWAY GRADING
- INSTALL WATER TANKS 6. INSTALL WHARF FIRE HYDRANT
- 7. INSTALL STORM DRAIN SYSTEM
- SEPARATE PERMIT: CONSTRUCT DRIVEWAY APPROACH
- 2. INSTALL SEPTIC SYSTEM
- 3. CONSTRUCT RETAINING WALL

SHEET INDEX

SECTIONS, DETAILS & NOTES

EROSION CONTROL PLAN

BMP1&2 BEST MANAGEMENT PRACTICES

PRELIMINARY GRADING & DRAINAGE PLAN

COVER SHEET

SITE PLAN

evision 1 Date	APN	Sheet
	517-30-013	1
evision 2 Date	517-50-015	1
	Co. File	of
evision 3 Date	V	Q
	^	0

BITED	PR	OJECT NOTES:
RESTRICTI	1.	THE LOCATION OF THE BUILDING PADS AND/OR FOUNDATIONS ARE TO BE ESTABLISHED BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING. A LETTER SIGNED AND SEALED BY THAT AUTHORIZED PERSON, STATING THAT HE/SHE HAS LOCATED THE BUILDING CORNERS, AND THEIR LOCATIONS CONFORM TO COUNTY BUILDING SETBACK REQUIREMENTS PER THE APPROVED BUILDING PLANS IS REQUIRED TO BE SUBMITTED TO THE COUNTY ENGINEER.
HOLE OR PAR OF THESE	2.	'THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.'
HOD, IN WHEPTANCE	3. 4.	NO TREES ARE TO BE REMOVED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION ON THE SUBJECT SITE.
ANY METH THE ACC	5.	BOTH DRAINFIELDS MUST BE STAKED AND STRUNG PRIOR TO APPROVAL OF THE SEPTIC DESIGN TO VERIFY THAT THE PROPOSED SEPTIC DESIGN WILL ACTUALLY FIT INTO THE PROPOSED LEACHFIELD AREA, AND CONFORM TO ALL REQUIRED SETBACKS.
ATION BY	6.	IF ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL BE HALTED WITHIN 50 METERS (150 FEET) OF THE FIND UNTIL IT CAN BE EVALUATED BY A QUALIFIED ARCHAEOLOGIST. IF THE FIND IS DETERMINED TO BE SIGNIFICANT, APPROPIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED.
E VIDEN	7.	NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
OR P	0. 0	TO THE SITE.
PRODUCTION	5.	THE GRADING, SCRAPING OR EXCAVATION, ALL WORK SHOULD BE HALTED IN THE VICINITY OF THE FIND AND AN ARCHAEOLOGIST SHOULD BE CONTACTED IMMEDIATELY TO EVALUATE THE DISCOVERED MATERIAL TO ASSESS ITS AREAL EXTENT, CONDITION, AND SCIENTIFIC SIGNIFICANCE. IF THE DISCOVERED MATERIAL IS DEEMED POTENTIALLY SIGNIFICANT, A QUALIFIED ARCHAEOLOGIST SHOULD MONITOR ANY SUBSEQUENT ACTIVITY IN THE PROXIMITY.
TO SUCH USE. REAL CONSTITUTE	10.	IN THE EVENT THAT HUMAN SKELETAL REMAINS ARE ENCOUNTERED, THE APPLICANT IS REQUIRED BY COUNTY ORDINANCE NO. B6–18 TO IMMEDIATELY NOTIFY THE COUNTY CORONER. UPON DETERMINATION BY THE COUNTY CORONER THAT THE REMAINS ARE NATIVE AMERICAN, THE CORONER SHALL CONTACT THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION, PURSUANT TO SUBDIVISION (c) OF SECTION 7050.5 OF THE HEALTH AND SAFETY CODE AND THE COUNTY COORDINATOR OF INDIAN AFFAIRS. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY CHAPTER. IF ARTIFACTS ARE FOUND ON THE SITE A QUALIFIED ARCHAEOLOGIST SHALL BE CONTACTED ALONG WITH THE COUNTY PLANNING OFFICE. NO FURTHER DISTURBANCE OF THE ARTIFACTS MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY PLANNING OFFICE.
S SH.	11.	THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
	12.	UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
RESSL	13.	ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.
OF IS EXPI	14.	ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
THERE NS A	15.	AN APPROVED RESIDENTIAL FIRE SPRINKLER SYSTEM COMPLYING WITH FIRE MARSHAL STANDARD CFMO—SP6 IS REQUIRED TO BE INSTALLED THROUGHOUT THE STRUCTURE.
TION .	16.	ALL NEW ON-SITE UTILITIES, MAINS AND SERVICES SHALL BE PLACED UNDERGROUND AND EXTENDED TO SERVE THE PROPOSED RESIDENCE.
D PUBLICA TH THESE	17.	A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND.
T WI	18.	ALL ROOF RUNOFF SHALL BE DIRECTED TO LANDSCAPED OR NATURAL AREAS AWAY FROM BUILDING FOUNDATIONS, TO ALLOW FOR STORM WATER INFILTRATION INTO THE SOIL AND SHEET FLOW.
EPARE	<u>NO</u>	TE TO CONTRACTOR
THEY WERE PRI	CON COU REQ SHA ALLI SOL	ITRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE IRSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS UIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR ILL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR EGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE E NEGLIGENCE OF THE OWNER OR ENGINEER.
OR WHICH	THE OTH CON	CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND ER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKER'S DESTROYED DURING ISTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
SITE F JT PF	WHE ASS	RE THE FIRM OF HANNA & BRUNETTI DOES NOT PROVIDE CONSTRUCTION STAKES, SAID FIRM WILL NUME NO RESPONSIBILITY WHATSOEVER FOR IMPROVEMENTS CONSTRUCTED THEREFROM.
THOL	<u><u>co</u></u>	NTRACTOR TO VERIFY:
ORIG W	CON FOU	ITRACTOR TO VERIFY PRIOR TO CONSTRUCTION OF BUILDING PAD, THE STRUCTURAL SECTION OF NDATION TO DETERMINE BUILDING PAD ELEVATION.
O THE	SEE OF	E SOILS REPORT AND/OR STRUCTURAL PLANS TO DETERMINE THE ELEVATION THE BUILDING FINISH FLOOR AND PAD.
ED TO		
TRICT		THESE OLIANTITIES DO NOT INCLUDE ANY SHRINKAGE SUBSIDENCE
LL BE RES MAINS IN		OVER-EXCAVATION, OR ANY SPECIAL CONDITIONS OR REQUIREMENTS THAT MAY BE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT. THESE QUANTITIES IN THE AREA FOR PERMIT PURPOSES ONLY. ALL CONTRACTORS BIDDING ON THIS PROJECT SHOULD MAKE THEIR OWN DETERMINATION OF EARTHWORK QUANTITIES PRIOR TO SUBMITTING A BID.
S SHA JS RE		EXCESS MATERIAL SHALL BE OFF—HAULED. IF LOCATION IS WITHIN THE COUNTY A SEPERATED PERMIT SHALL BE REQUIRED.
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PLAN #

REVISIONS: DESCRIPTION

BY:

HANNA-BRUNETTI

CIVIL ENGINEERS • LAND SURVEYORS CONSTRUCTION MANAGERS 7651 EIGLEBERRY STREET • GILROY • 95020 • CALIFORNIA OFFICE (408) 842-2173 • FAX (408) 842-3662 EMAIL: ENGINEERING @ HANNABRUNETTI.COM

DATE:UNE 2022
HORIZ. SCALE: $\frac{ ''=2\mathcal{O}'}{2\mathcal{O}'}$
VERT. SCALE: <u>NONE</u>
designed by: AM
CHECKED BY:
DRAWN BY:T.M.

R.C.E. # 69278

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EROSION CONTROL NOTES

- 1. EROSION CONTROL MEASURES SHALL BE EFFECTIVE FOR CONSTRUCTION DURING THE RAINY SEASON; OCTOBER 15 THROUGH APRIL 15.
- 2. NO STORM WATER RUNOFF SHALL BE ALLOWED TO DRAIN INTO THE EXISTING AND/OR PROPOSED UNDERGROUND STORM SYSTEM UNTIL SUITABLE EROSION CONTROL MEASURES ARE FULLY IMPLEMENTED. NO STORM WATER RUNOFF SHALL BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM THAT IS NOT CLEAR, AND FREE OF SILTS.
- 3. A FIBER ROLL BARRIER PER "DETAIL SE-5" SHALL BE INSTALL ALONG THE PERIMETER OF THE PROJECT SITE. THE LOCATION OF THE FIBER ROLL ALONG THE PERIMETER SHALL BE ADJUSTED TO ELIMINATE SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE. A FIBER ROLL SHALL ALSO BE REQUIRED AROUND THE PERIMETER OF ANY STOCKPILE OR OTHER SITE OF BARE, LOOSE EARTH.
- ALL STORM DRAIN MANHOLES, CATCH BASINS, AND/OR DROP INLETS THAT ARE TO ACCEPT STORM WATER SHALL HAVE INLET PROTECTION MEASURES PER DETAIL SE-10. STORM WATER RUNOFF SHALL BE DIRECTED TO THESE INLETS ONLY. STORM DRAIN CATCH BASINS THAT ARE NOT COMPLETE, SHALL BE BLOCKED OFF COMPLETELY.
- 5. THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR THE IMPLEMENTATION OF THE EROSION CONTROL PLAN SHALL BE PROVIDED TO THE COUNTY.
- 6. PRIOR TO GRADING, AN ENTRANCE SHALL BE CONSTRUCTED, CONSISTING OF A MINIMUM OF 50 LF OF DRAIN ROCK, 3" IN DIAMETER, PLACED OVER MIRAFI 500X (OR EQUAL) PER DETAIL TC-1. THE ENTRANCE SHALL CONFORM TO "CONSTRUCTION ENTRANCE DETAIL TC-1". THERE SHALL BE ONLY ONE ENTRANCE/EXIT POINT TO THE SITE DURING THE RAINY SEASON. THE LOCATION SHALL BE AS SHOWN ON THESE PLANS, OR AT A LOCATION APPROVED BY THE COUNTY.
- 7. ALL AREAS OF BARE, TURNED OR DISTURBED EARTH SHALL BE STABILIZED BY USE OF HYDROSEED PER THE TABLE BELOW. ALL STOCKPILES, AND/OR BORROW AREAS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES SUCH AS A PERIMETER SILT FENCE, AND OTHER METHODS TO PREVENT ANY EROSION OR SILTS MIGRATION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE COUNTY INSPECTOR. THE STORM DRAIN SYSTEM SHALL MAINTAIN A FORM OF DRAIN INLET PROTECTION UNTIL COUNTY ACCEPTS THE FINAL STREET IMPROVEMENTS. THE DRAIN INLET PROTECTION SHALL BE MAINTAINED, EFFECTIVE AND SUBJECT TO COUNTY INSPECTOR'S APPROVAL.
- 8. ALL PAVED STREET, AND AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO ELIMINATE SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
- 9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH DAY DURING THE RAINY SEASON. ANY DAMAGED STRUCTURAL MEASURES ARE TO BE REPAIRED BY END OF THE DAY. TRAPPED SEDIMENT IN "SD INLETS" (AND OTHER EROSION CONTROL MEASURES) SHALL BE REMOVED TO MAINTAIN TRAP EFFIIENCY. REMOVED SEDIMENT SHALL BE DISPOSED BY SPREADING ON SITE, WHERE IT WILL NOT MIGRATE.
- 10. IT IS THE RESPOSIBILITY OF THE CONTRACTOR TO PREVENT THE FORMATION OF AIRBORNE DUST NUISANCE AND SHALL BE RESPOSIBILE FOR ANY DAMAGE RESULTING FROM A FAILURE TO DO SO.
- 11. ALL DRAIN SWALES SHALL BE PER DETAIL EC-9.
- 12. INCOMPLETE GRADING SHALL NOT BE ALLOWED. CONTRATOR SHALL MAINATIN A DRAIN PATH AS SHOWN ON THIS PLAN. SAID DRAIN PATH SHALL BE MAINTAINED LINED DRAIN SWALES, AND INLET PROTECTION AT A MINIMUM. IF PONDING DOES OCCUR ON THE SITE AFTER GRADING, THE WATER MUST BE FREE AND CLEAR OF SEDIMENT PRIOR TO DISCHARGE TO THE STORM DRAIN SYSTEM. THIS REQUIREMENT MAY NECESSITATE THE USE OF NATURAL AND/OR MECHANICAL DESILTING METHODS, SUBJECT TO APPROVAL BY THE COUNTY INSPECTOR.
- 13. F THESE EROSION CONTROL MEASURE PROVE INADEQUATE, STRAW MULCH, TACKIFIER, AND ADDITIONAL HYDROSEEDING MAY BE REQUIRED.

HYDROSEED TABLE	
ITEM	LBS/ACRE
COMMON BARLEY ANNUAL RYEGRASS CRIMSON CLOVER FERTILIZER 7–2–3	45 45 10 400
FIBER MULCH	2000
TACKIFIER	100

- 14. ALL GRADING WORK BETWEEN OCTOBER 15th AND APRIL 15th IS AT THE DISCRETION OF THE SANTA CLARA COUNTY BUILDING OFFICIAL.
- 15. PROVIDE SHRUBS AND/OR TREES REQUIRED ON SLOPES GREATER THAN 15 FEET IN VERTICAL HEIGHT.
- 16. THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL INSTALL AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL WITHIN THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY AND ANY PORTION OF THE SITE WHERE STORM WATER RUN-OFF IS DIRECTLY FLOWING INTO THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, WASTE MATERIALS, AND SEDIMENT CAUSED BY EROSION FROM CONSTRUCTION ACTIVITIES ENTERING THE STORM DRAIN SYSTEM, WATERWAYS, AND ROADWAY INFRASTRUCTURE. BMP'S SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING PRACTICES APPLICABLE TO THE PUBLIC ROAD AND EXPRESSWAY FACILITIES:
- A) REDUCTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN/STAGING AREAS.
- B) PREVENTION OF TRACKING OF MUD, DIRT AND CONSTRUCTION MATERIALS ONTO PUBLIC ROAD RIGHT OF WAY.
- C) PREVENTION OF DISCHARGE OF WATER RUNOFF DURING DRY AND WET WEATHER CONDITIONS ONTO PUBLIC ROAD RIGHT OF WAY
- 17. THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY AND ANY PORTION OF THE SITE WHERE STORM WATER RUN-OFF IS DIRECTLY FLOWING INTO THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY SHALL HAVE SEASONALLY APPROPRIATE BMP'S INSTALLED AND MAINTAINED AT ALL TIMES.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERS

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Erosion Control Plan

Lands of Sinapi - 16968 Bohlman Road - apn 517-30-013

SANTA CLARA COUNTY JOB NO. CALIFORNIA

STANDARD BEST MANAGEMENT PRACTICE NOTES

- 1. Solid and Demolition Waste Management: Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- 2. <u>Hazardous Waste Management</u>: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- 3. <u>Spill Prevention and Control</u>: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- 4. <u>Vehicle and Construction Equipment Service and Storage</u>: An area shall be designated for the maintenance, where onsite maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- 5. <u>Material Delivery, Handling and Storage</u>: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- 6. <u>Handling and Disposal of Concrete and Cement</u>: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- 7. <u>Pavement Construction Management</u>: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- 8. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- 9. <u>Sanitary/Septic Water Management</u>: Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- 10.Inspection & Maintenance: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

Best Management Practices and Erosion Control Details Sheet 1 County of Santa Clara

STANDARD EROSION CONTROL NOTES

1. Sediment Control Management:

Tracking Prevention & Clean Up: Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.

Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.

Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

<u>Dust Control</u>: The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

Stockpiling: Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures(tarps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.

- <u>Erosion Control</u>: During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- 3. Inspection & Maintenance: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- 4. <u>Project Completion</u>: Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- 6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Duciant Information	IMPROVEMENT PLANS
I INDECT IIIMITATION	FOR THE
	HOME GRADING AND DRAINAGE
	ON THE LANDS OF SINAPI
	16968 BOHLMAN ROAD, LOS GATOS
	PARCEL B, AS SHOWN ON THAT CERTAIN PARCEL MAP FILED OCTOBER 3, 1978 IN BOOK 427 OF MAPS, AT PAGE 29
	SANTA CLARA COUNTY, CALIFORNIA
	A.P.N.: 517-30-013

BMP-1

County of Santa Clara