LOCATION

BLDG CODES

GODSTON RESIDENCE

LOS GATOS, CA

PROJECT DATA

DESCRIPTION: NEW SINGLE FAMILY, 4 BEDROOMS, CARPORT, DRIVEWAY, SEPTIC SYSTEM (BY OTHERS)

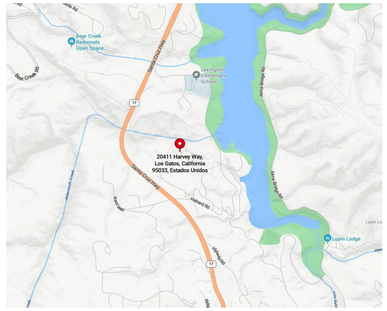
LOCATION: 20411 HARVEY WAY
LOS GATOS, CA 95033

APN: 558-04-033

LOT SIZE: 48,366.2 SQ.FT.

BUILDING AREA CALCULATION:

	PROPOSED
UNCONDITIONED	
1ST STORY (CARPORT)	390 ft²
2ND STORY (PORCH)	114 ft²
CONDITIONED	
1ST STORY	420 ft²
2ND STORY	1,215 ft²
3RD STORY	920 ft²
==========	==========
TOTAL CONDITIONED	2,555 ft²
TOTAL BUILDING AREA:	3,059 ft²
IMPERVIOUS SURFACE	
DRIVEWAY	5,426.2 ft²
BUILDING	1,419.6 ft²
WATER TANK	432 ft²
OFFSITE IMPROVEMENTS	216.3 ft²
TOTAL	7,494.1ft²
PERVIOUS SURFACE	
PERMEABLE PAVER PATIO	1,072.3 ft²
PARKING:	
CAR	2
CONSTRUCTION:	V-B
ZONE/HEIGHT:	HS
OCCUPANCY:	R-3
NO. OF UNITS:	1
NO. OF STORIES:	3
FIRE SPRINKLERS:	Yes
WATER WELL	Existing
FIRE SRA	Yes



FIRE PROTECTION

1. AUTOMATIC FIRE SPRINKLERS SHALL COMPLY WITH NFPA-13D AND BE INSTALLED BY LICENSED C-16 CONTRACTOR.
2. SMOKE AND CO DETECTORS SHALL BE INSTALLED AS REQUIRED BY CODE, WHERE INDICATED ON PLANS, AND POWERED BY 110V AC CURRENT WITH 9V BATTERY BACK-UP.

CODE DATA

2022 CA BUILDING CODE
2022 CA MECHANICAL CODE
2022 CA ELECTRICAL CODE
2022 CA PLUMBING CODE
2022 CA ENERGY CODE
2022 CA GREEN BUILDING CODE
2022 CA RESIDENTIAL CODE

COMPLY WITH ALL LOCAL ORDINANCES AND AMENDMENTS

PROJECT CONTACTS

OWNER:	JON GODSTON 20411 HARVEY WAY LOS GATOS, CA 95033
	E: godston@gmail.com T: (312) 451-3960
ARCHITECT:	DNM ARCHITECTURE DAVID MARLATT, AIA 1A GATE 5 ROAD SAUSALITO, CA 94965
	E: david@dnmarchitecture.com T: 415-348-8910
CONTRACTOR:	TBD
STRUCTURAL ENGINEER:	TBD
GEOTECHNICAL ENGINEER:	TBD
SURVEYOR:	JMH WEISS 150 ALMADEN BOULEVARD SUITE 700, SAN JOSE CA.
	T:(408) 286-4555
CIVIL ENGINEER:	DEBOLT 480 SAN RAMON VALLEY BLVD UNIT L, DANVILLE CA 94526
	T:(925) 837-3780
ENERGY CONSULTANT:	TBD
CIVIL ENGINEER: *LEACH FIELD*	HOGAN 2604 41ST AVENUE SUITE B, SOQUEL CA 95073
	T:(831) 425-1617

APPROVALS

DRAWING INDEX

SHT	TITLE	1/19/24	4/17/24 (1)	11/13/24 (2)	04/04/25 (3)	-	-
A0.0	PROJECT DATA	X	X		X		
A1.0	[E] SITE PLAN		X	X	X		
A1.1	[N] SITE PLAN	X	X	X	X		
A1.2	DISTURBED AREA & SETBACK PLAN		X	X	X		
A1.3	1ST & 2ND STORY	X					
A1.4	3RD STORY & ROOF PLAN	X					
A2.0	ELEVATIONS	X	X	X	X		
A2.1	ELEVATIONS	X	X	X	X		
A3.0	SITE SECTIONS	X	X	X	X		
A3.1	BUILDING SECTIONS			X	X		
A3.2	BUILDING SECTIONS	X	X	X	X		
SUR-1	TOPOGRAPHIC SURVEY	X	09/12/24				
CE-1	COVER SHEET	X	09/12/24	X			
CE-2	GRADING & DRAINAGE PLAN		09/12/24	X			
CE-3	CROSS SECTION		09/12/24	X			
CE-4	EROSION CONTROL PLAN		09/12/24	X			
CE-5	SLOPE DENSITY CALCULATION	X	08/26/24	11/18/24			
C1	DRIP SYSTEM NOTES	X					
C2	DRIP SYSTEM DETAILS	X					
C3	DRIP SYSTEM DETAILS	X					
C4	DRIP SYSTEM PLAN	X					

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LICENSED ARCHITECT
DAVID A. MARLATT
C-27909
RENEWAL 08/31/2025
STATE OF CALIFORNIA

SITE APPROVAL PERMIT

PROJECT DATA

23.0911

GODSTON RESIDENCE

20411 HARVEY WAY

LOS GATOS, CA 95033

APN: 558-04-033

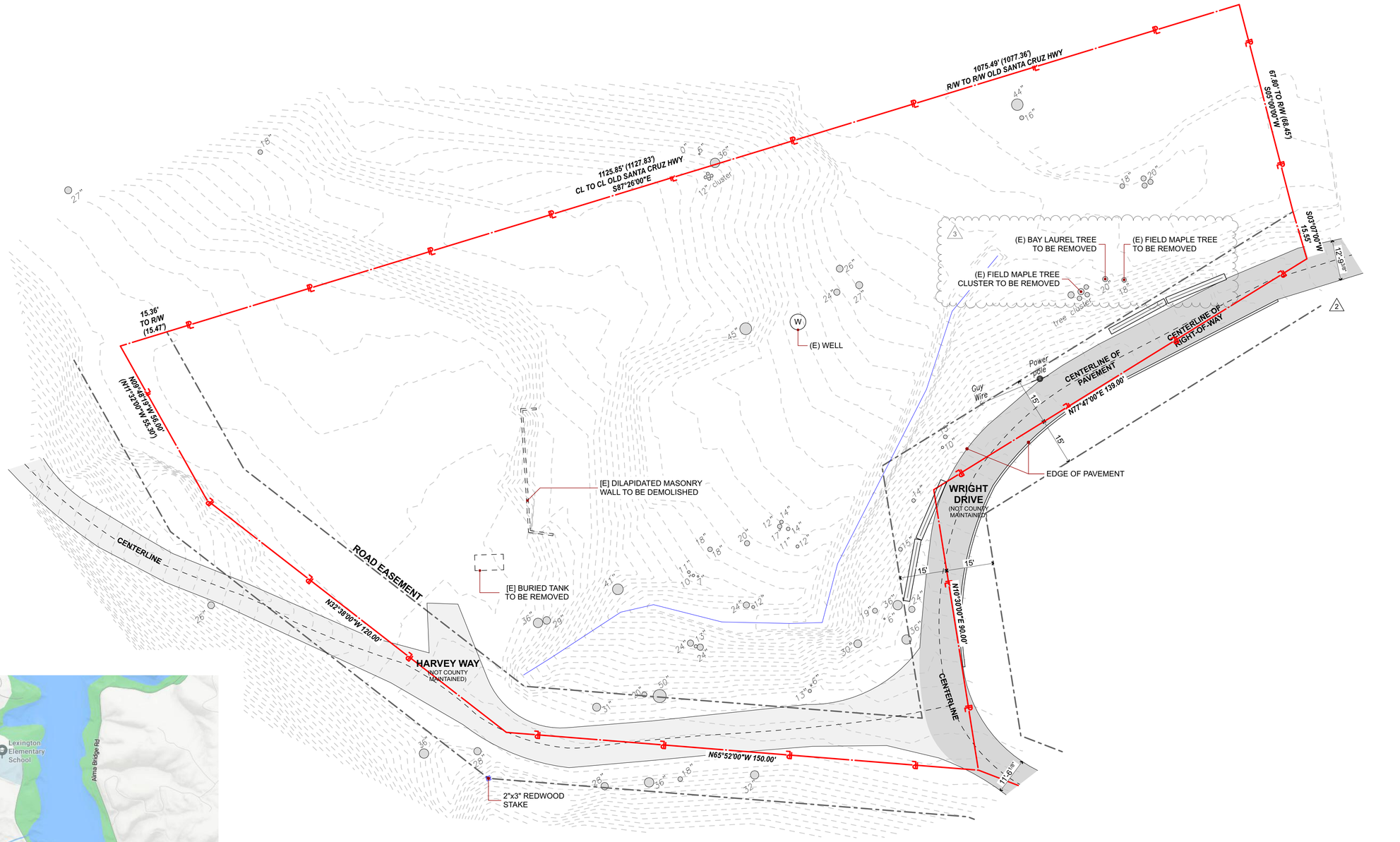
REVISIONS

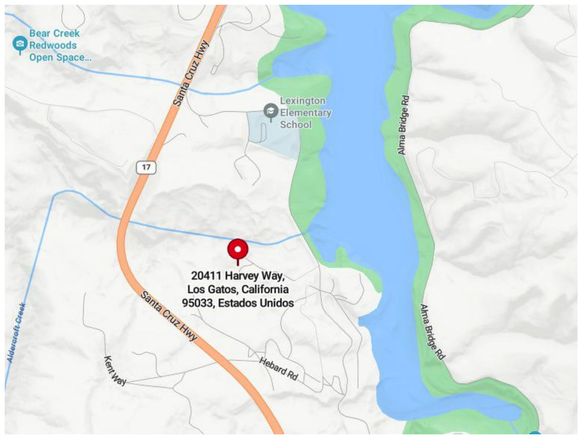
#	REASON	DATE
1.	PCCL 1	04/17/24
2.	PCCL 2	11/13/24
3.	PCCL 3	04/04/25
4.	_	-
5.	_	-
6.	_	-

1/19/2024

A0.0

PARCEL AREA:	
GROSS SIZE:	48,366.2 SF / 1.110 Acres
NET SIZE:	24,678.3 SF / 0.567 Acres





VICINITY MAP 2

[E] SITE PLAN 1

SCALE: 1/16" = 1'-0"

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C-27909
RENEWAL 2025
STATE OF CALIFORNIA

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[E] SITE PLAN

23.0911
GODSTON RESIDENCE
20411 HARVEY WAY
LOS GATOS, CA 95033

APN: 558-04-033

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5.	_	-
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1/19/2024

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1

GENERAL NOTES

1. FIRE DEPARTMENT ACCESS IS TO BE MADE OF AN AGGREGATE BASE & "ALL WEATHER" MATERIAL CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT LEAST 75,000 LBS, PER CFMO-A.1.
2. DRIVEWAYS & ACCESS ROADS SHALL BE DESIGNED & MAINTAINED TO SUPPORT AT LEAST 75,000 LBS, PER CFMO-A.1.
3. STANDARD HYDRANTS LOCATED WITHIN THE SOUTH SANTA CLARA COUNTY FIRE PROTECTION DISTRICT & ALL STATE RESPONSE AREAS REQUIRE A 4-1/2" PUMPER CONNECTION.
4. 20' SIDE YARD SETBACKS PER SANTA CLARA COUNTY ZONING ORDINANCE SECTION 4.20.110(C)(1)

T-01 (N) FIELD MAPLE TREE

T-02 (N) BAY LAUREL TREE

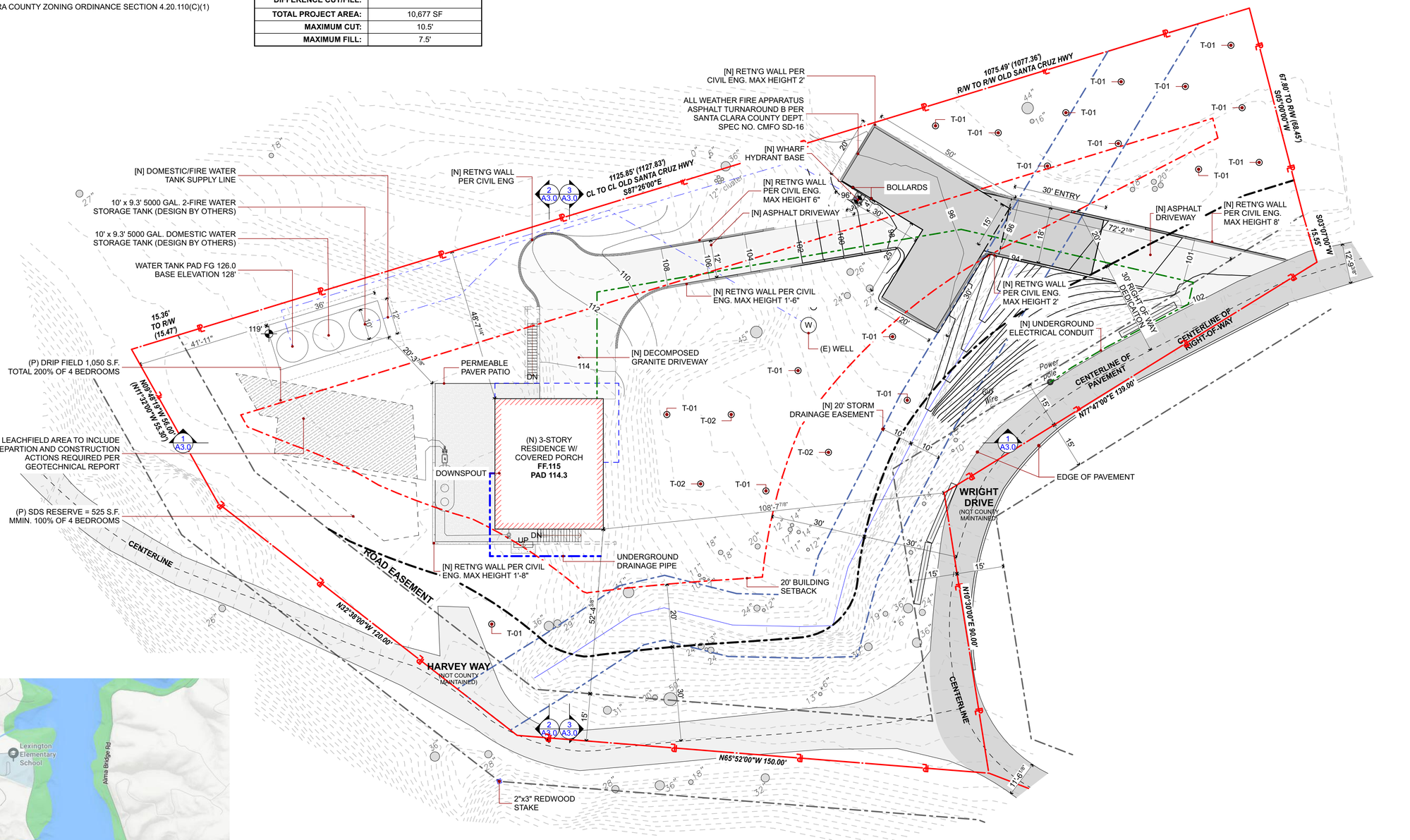
EARTHWORK SUMMARY:		
	CUT (CY)	FILL (CY)
HOUSE PADS:	220±	5±
DRIVEWAY/SIDEWALK:	190±	310±
YARDS/HILLSIDE:	65±	185±
WATER TANK PAD:	5±	5±
RAW QUANTITY:	480±	505±
NET VOLUMETRIC DIFFERENCE CUT/FILL:	25± CY NET CUT (IMPORT)	
TOTAL PROJECT AREA:	10,677 SF	
MAXIMUM CUT:	10.5'	
MAXIMUM FILL:	7.5'	

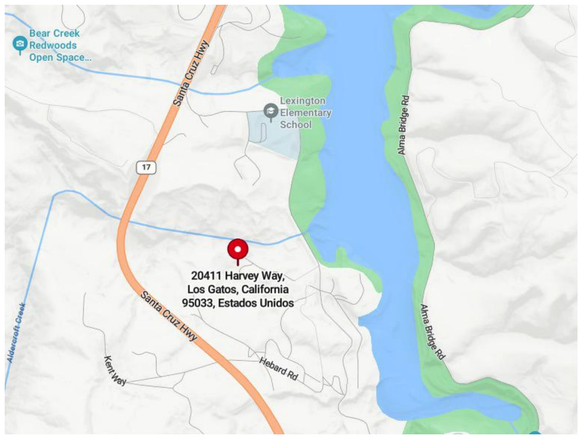
PROJECT FLOOR AREA:	
EXISTING:	0 SF
PROPOSED:	
1ST STORY:	420 SF
2ND STORY:	1,215 SF
3RD STORY:	920 SF
TOTAL:	2,555 SF

ESTIMATED IMPERVIOUS AREA:	
EXISTING:	1,604.7 SF
PROPOSED*:	7,494.1 SF
NET CHANGE:	+5,889.4 SF

*INCLUDING OFFSITE IMPROVEMENTS

TREE CALCULATIONS:		
	REMOVED:	REPLACED:
FIELD MAPLES:	6	18
BAY LAURELS:	1	3





VICINITY MAP 2

[N] SITE PLAN 1

SCALE: 1/16" = 1'-0"

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[N] SITE PLAN

23.0911

GODSTON RESIDENCE

20411 HARVEY WAY

LOS GATOS, CA 95033

APN: 558-04-033

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4/17/2024

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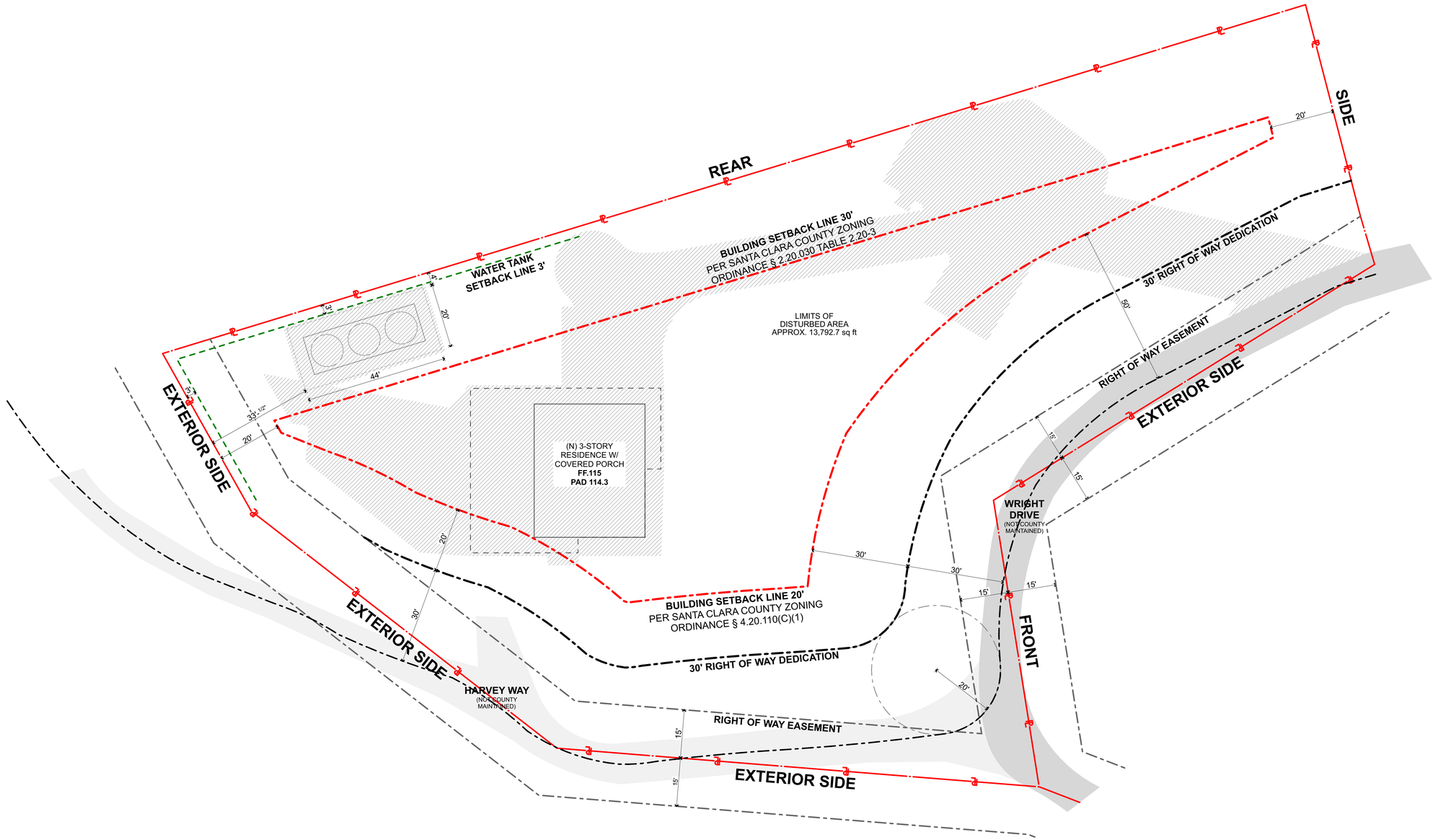

DISTURBED AREA & SETBACK PLAN

1

SCALE: 1/16" = 1'-0"

N

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DISTURBED AREA & SETBACK PLAN

23.0911

GODSTON RESIDENCE

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4/17/2024

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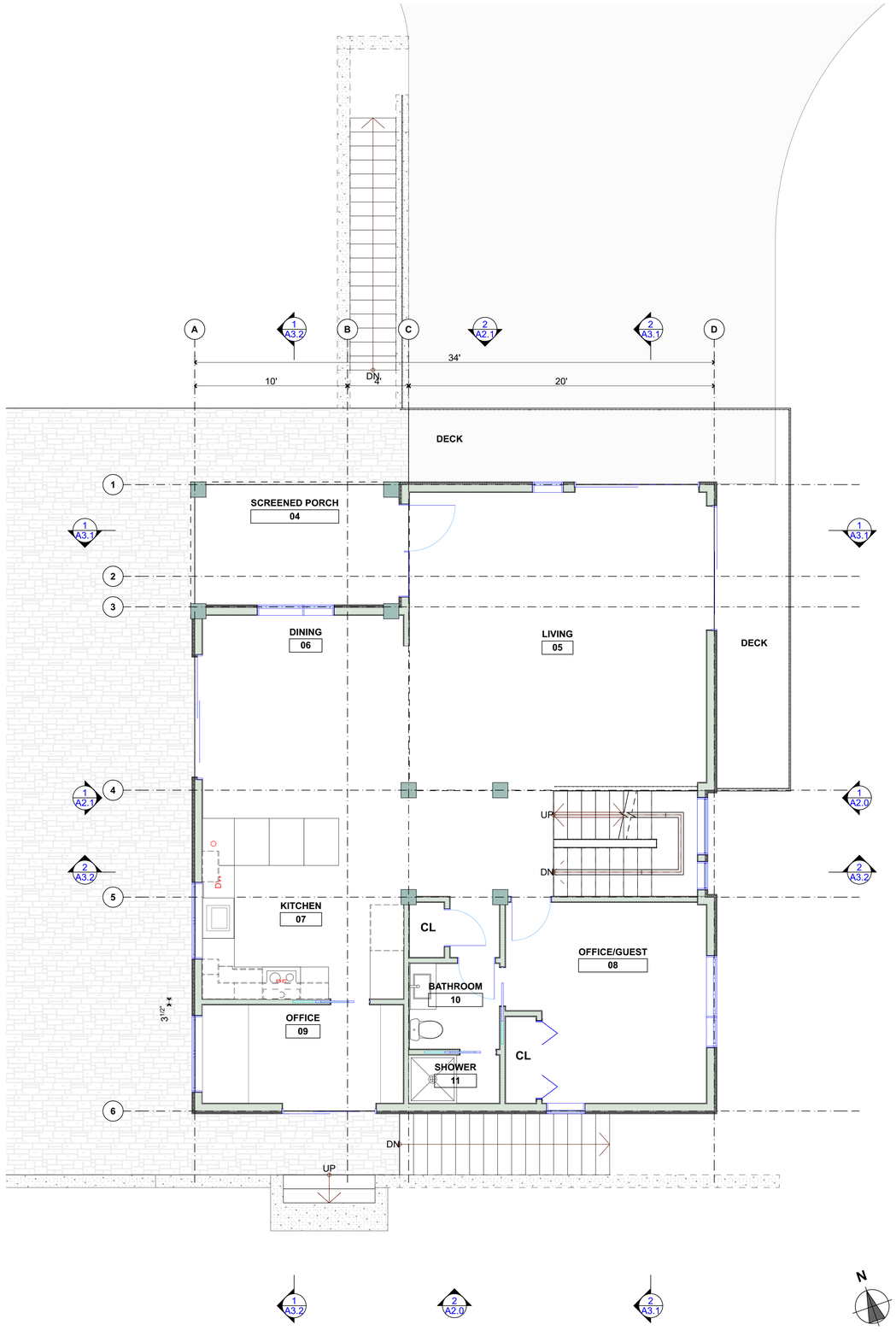
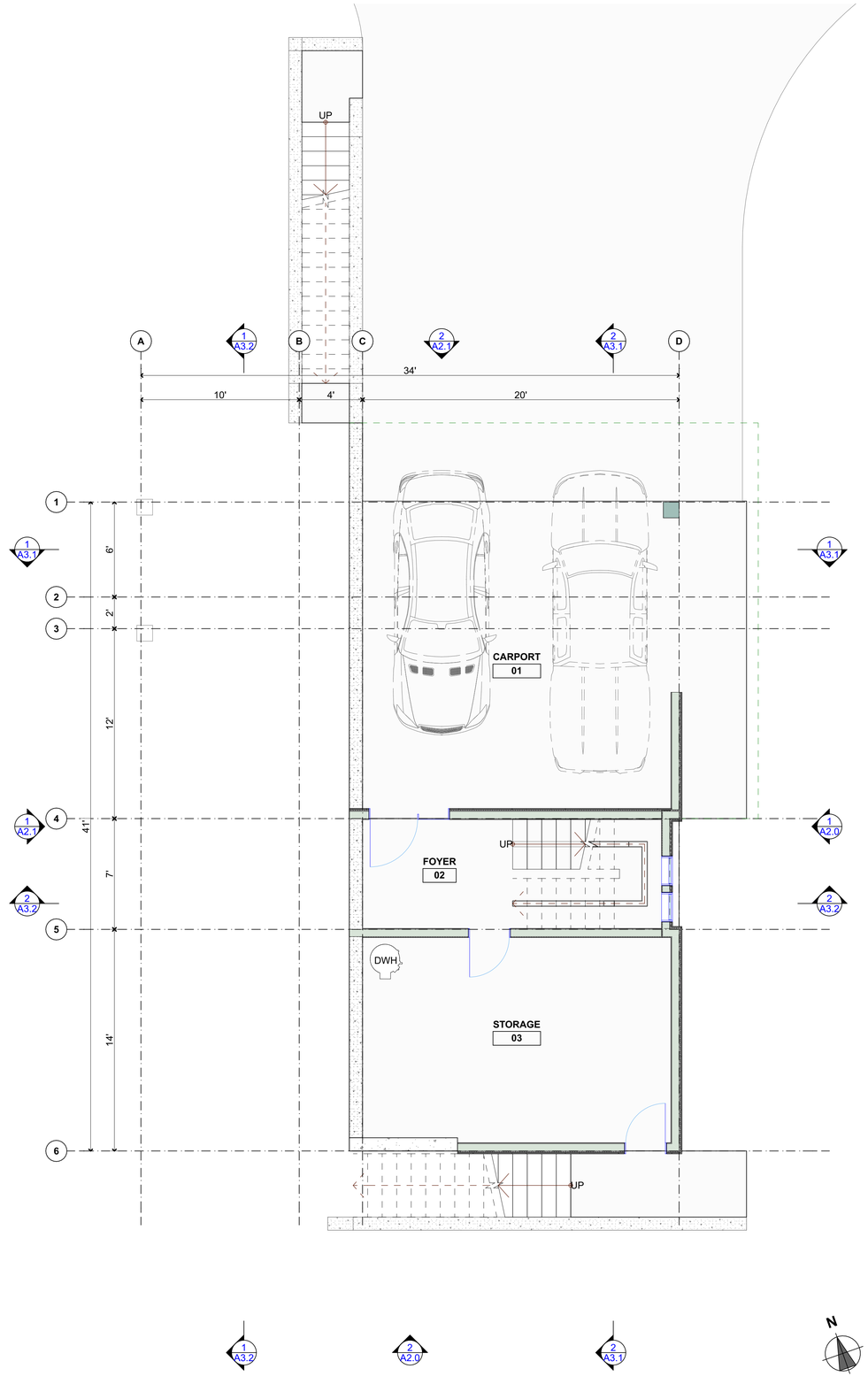


2ND STORY

SCALE: 1/4" = 1'-0"



1ST STORY CARPORT

SCALE: 1/4" = 1'-0"

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1ST & 2ND STORY

23.0911
GODSTON RESIDENCE
20411 HARVEY WAY
LOS GATOS, CA 95033

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REVISIONS

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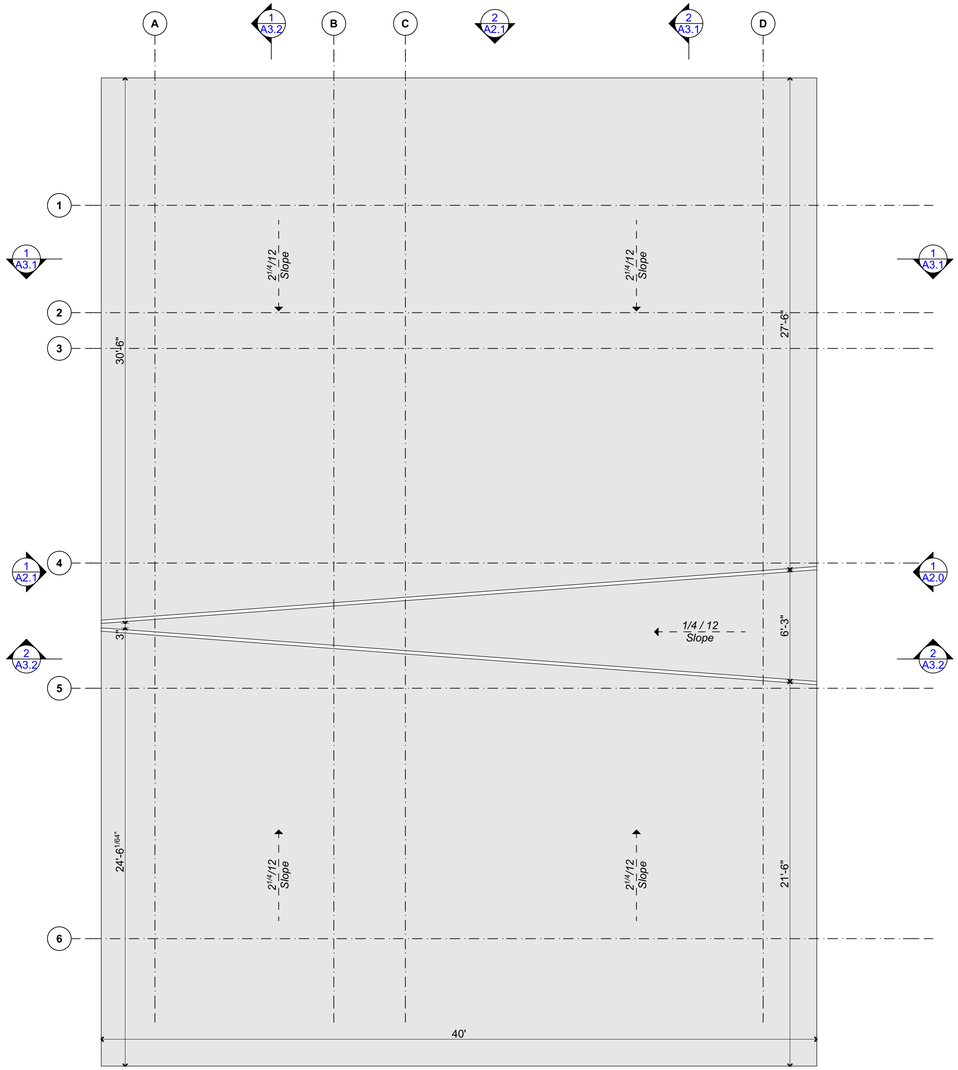
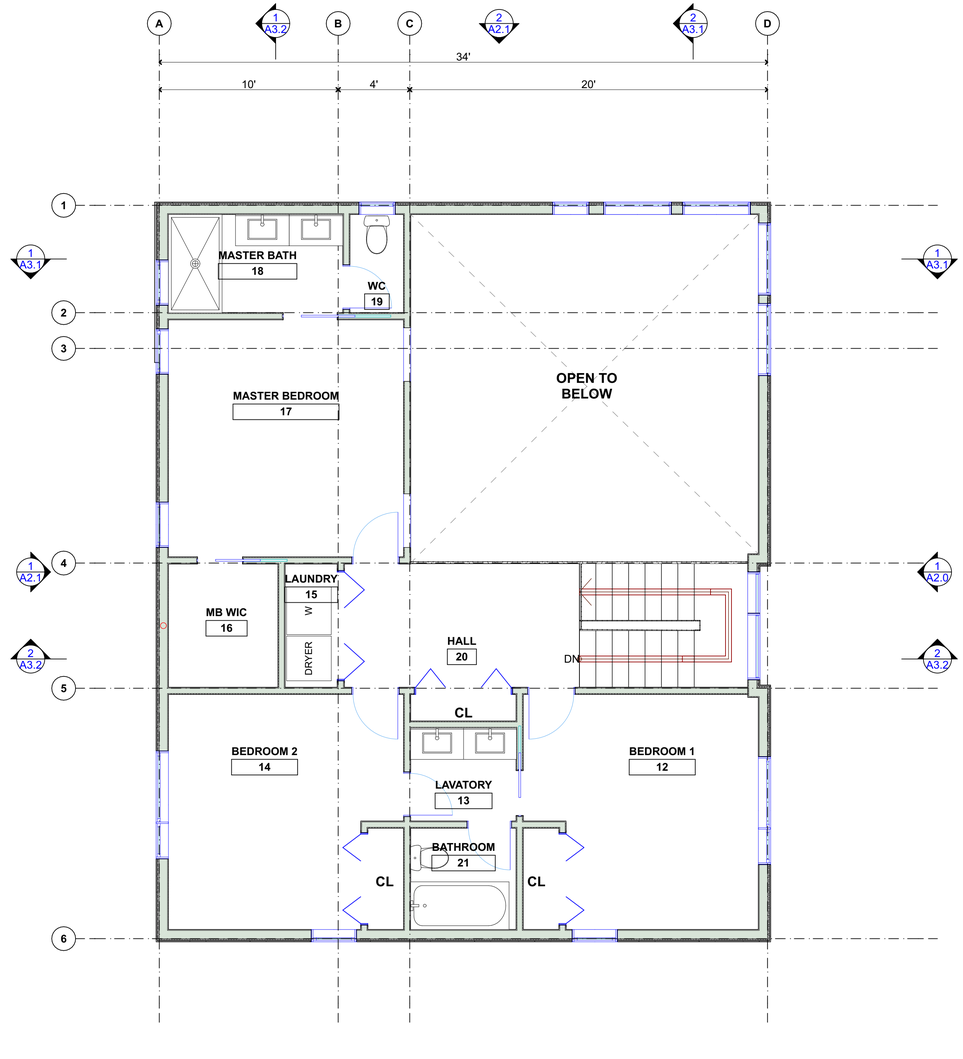


ROOF 2

SCALE: 1/4" = 1'-0"



3RD STORY 1

SCALE: 1/4" = 1'-0"

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3RD STORY & ROOF PLAN

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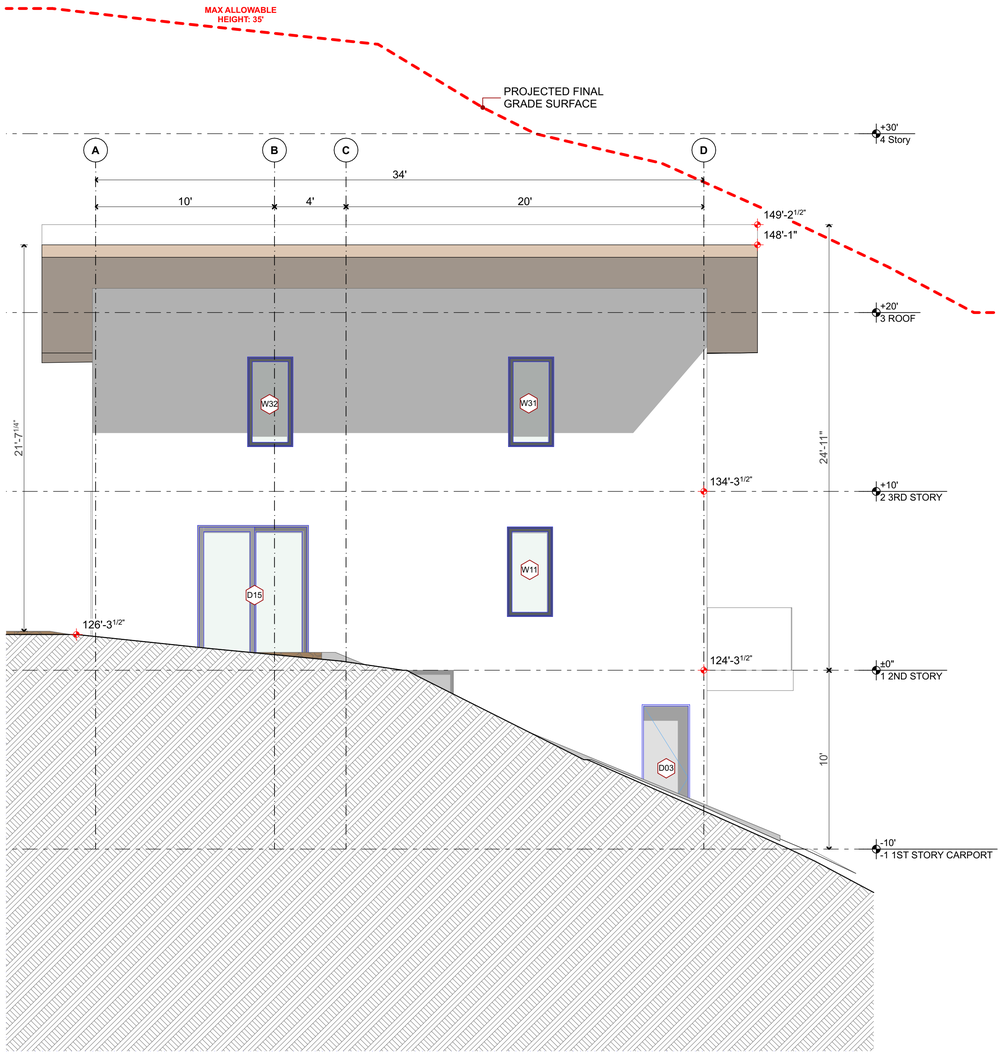
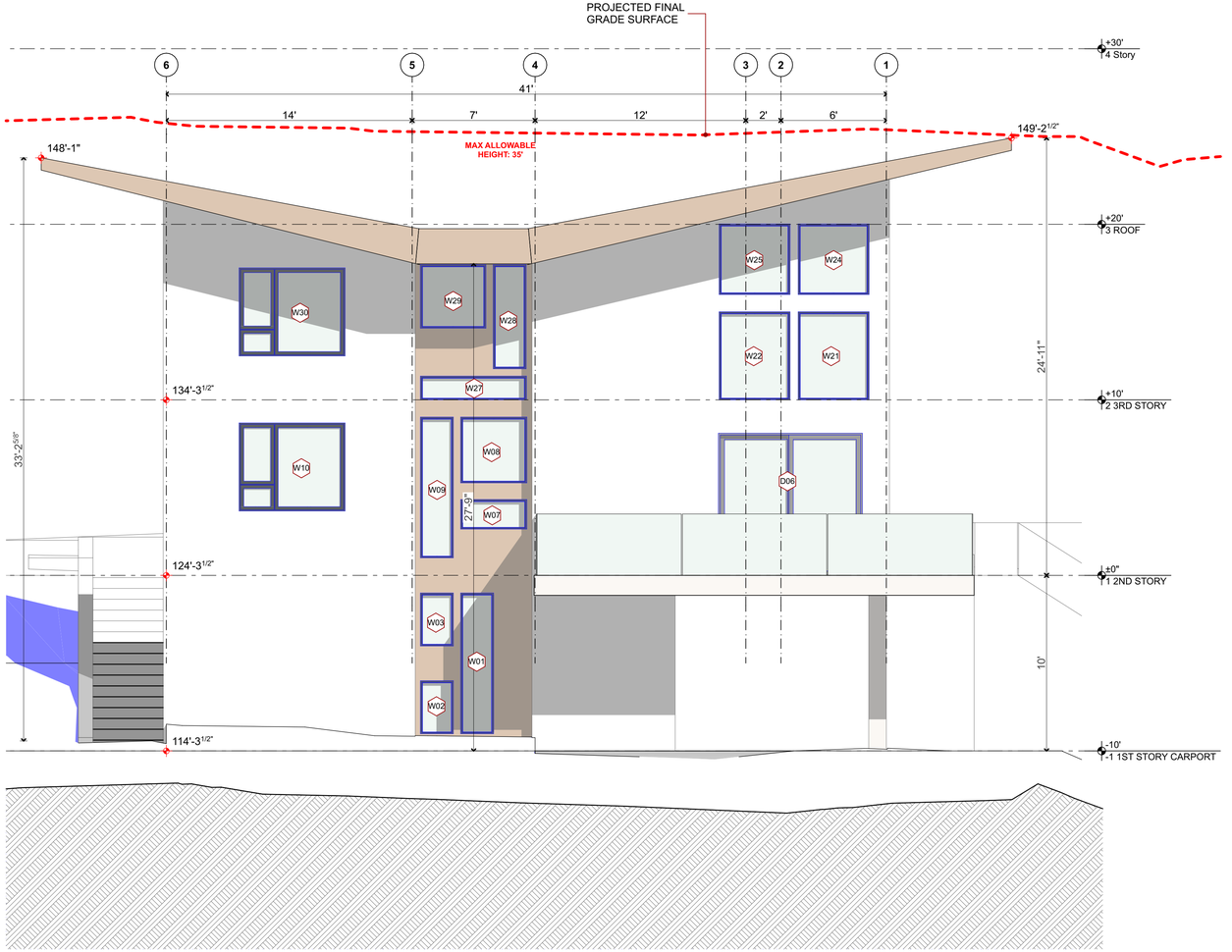
A1.4



SOUTH ELEVATION 2

SCALE: 1/4" = 1'-0"



EAST ELEVATION 1

SCALE: 1/4" = 1'-0"

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ELEVATIONS

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1/19/2024

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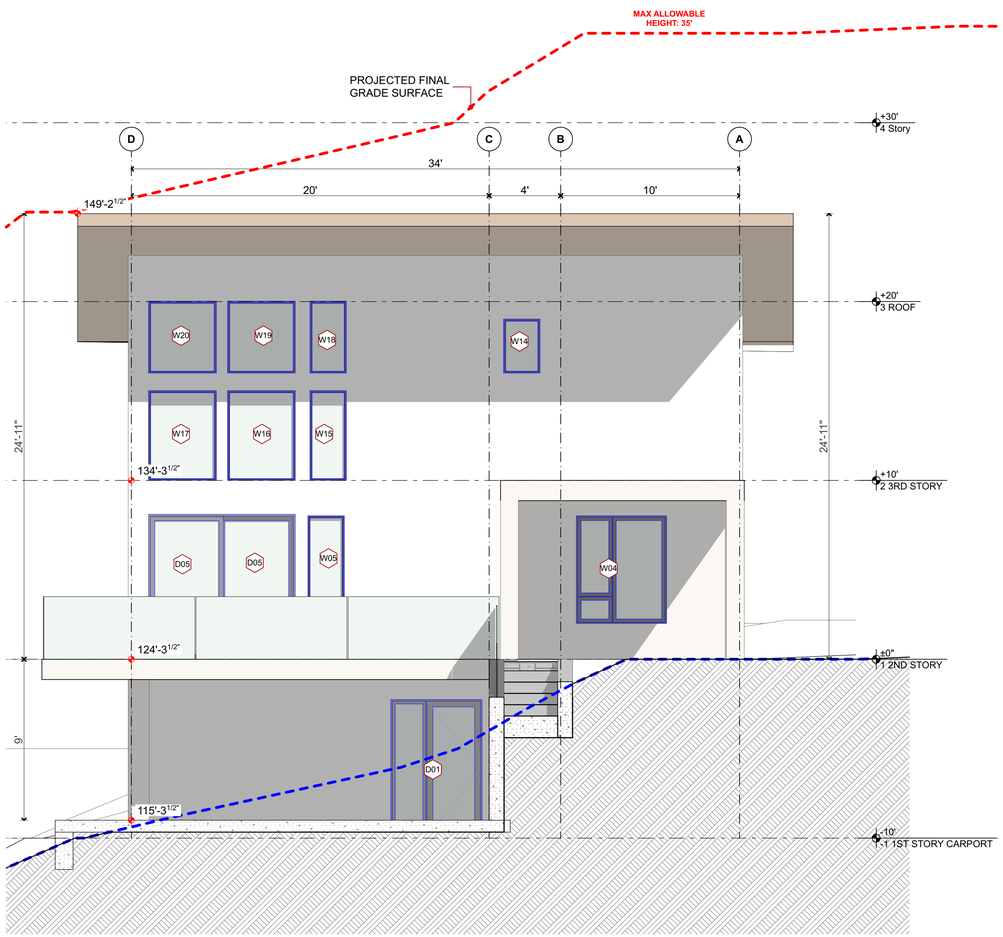
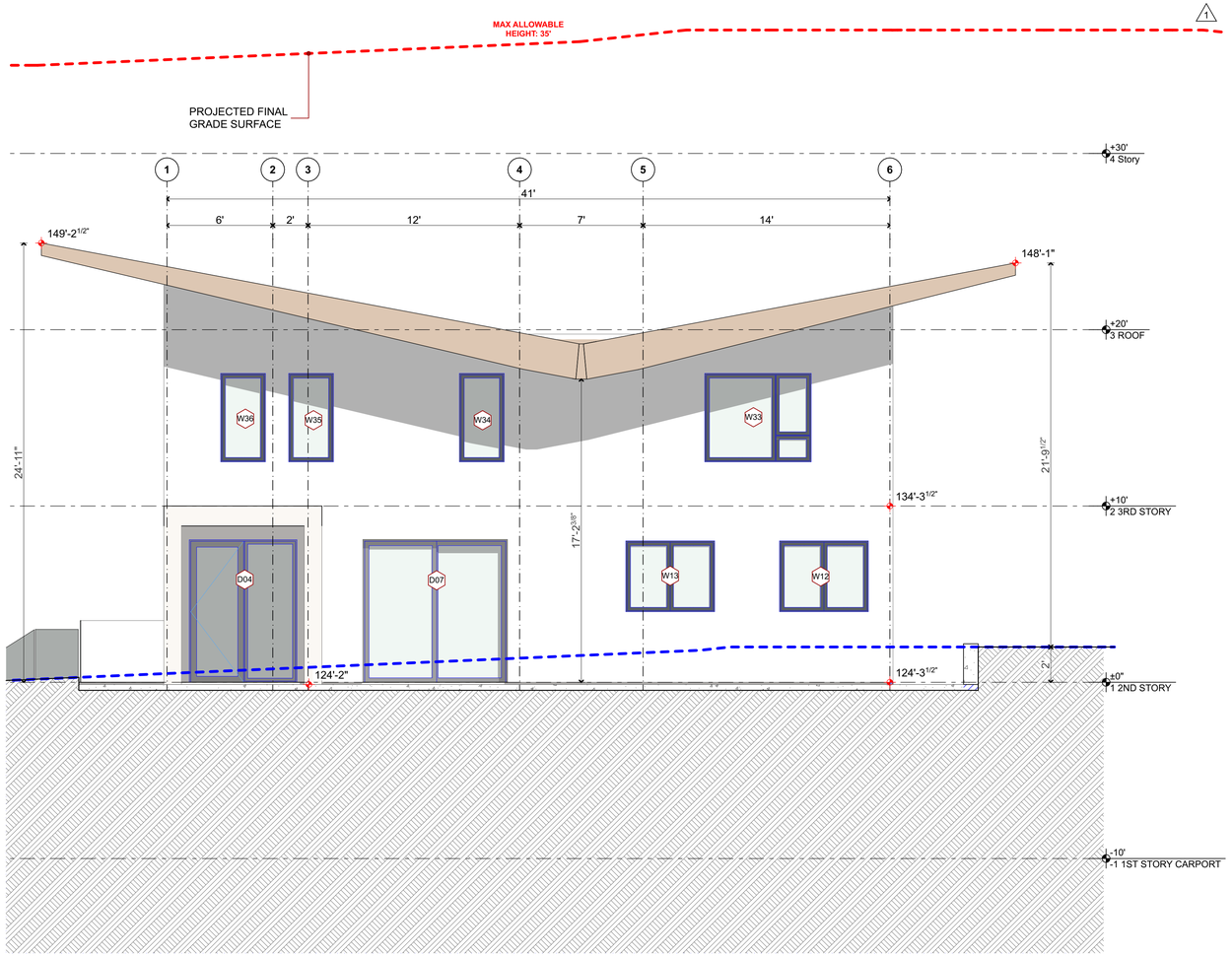


NORTH ELEVATION 2

SCALE: 1/4" = 1'-0"



WEST ELEVATION 1

SCALE: 1/4" = 1'-0"

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C-27909
RENEWAL 08/31/2025
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SITE APPROVAL PERMIT

ELEVATIONS

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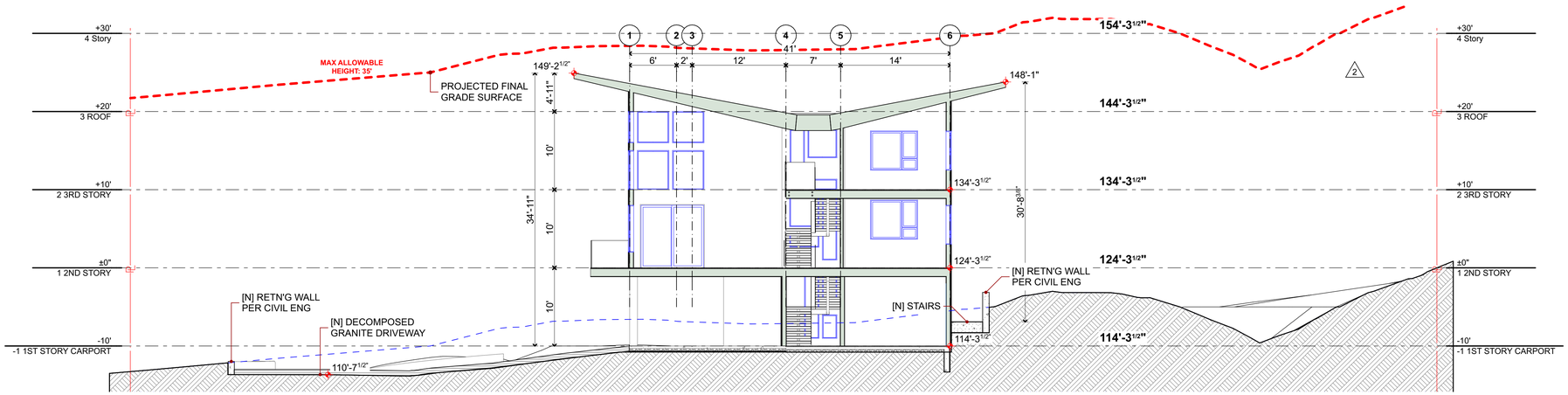
1/19/2024

A2.1

3



SITE SECTION 03 (3)

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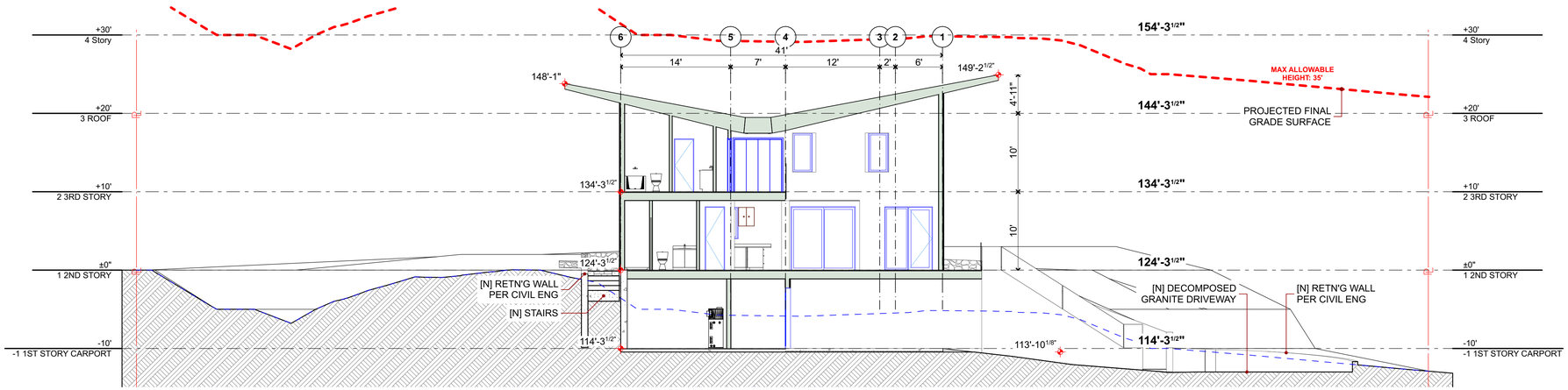

SITE SECTION 02 (2)

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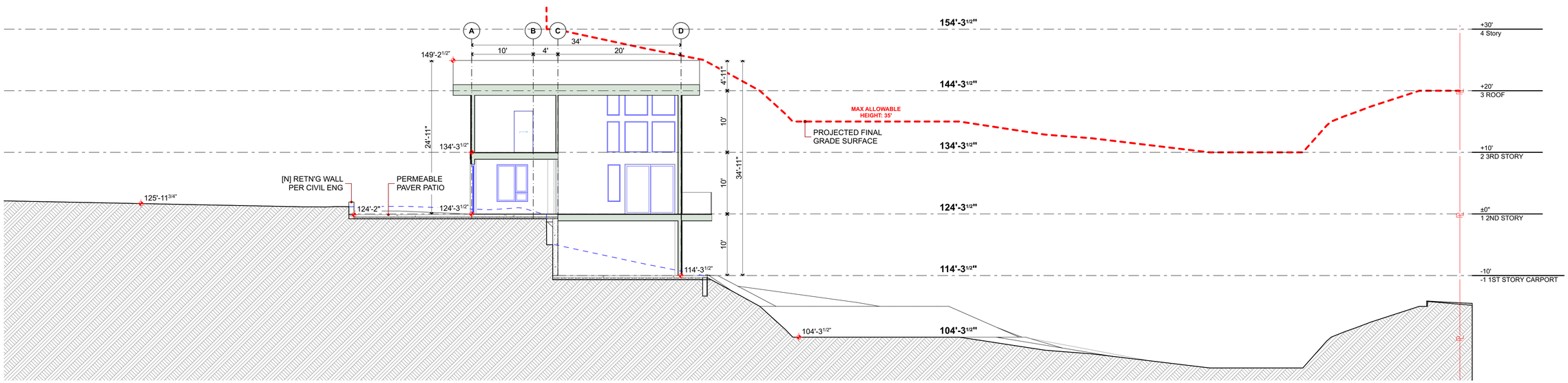

SITE SECTION 01 (1)

SCALE: 1/8" = 1'-0"

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SITE SECTIONS

23.0911

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1/19/2024

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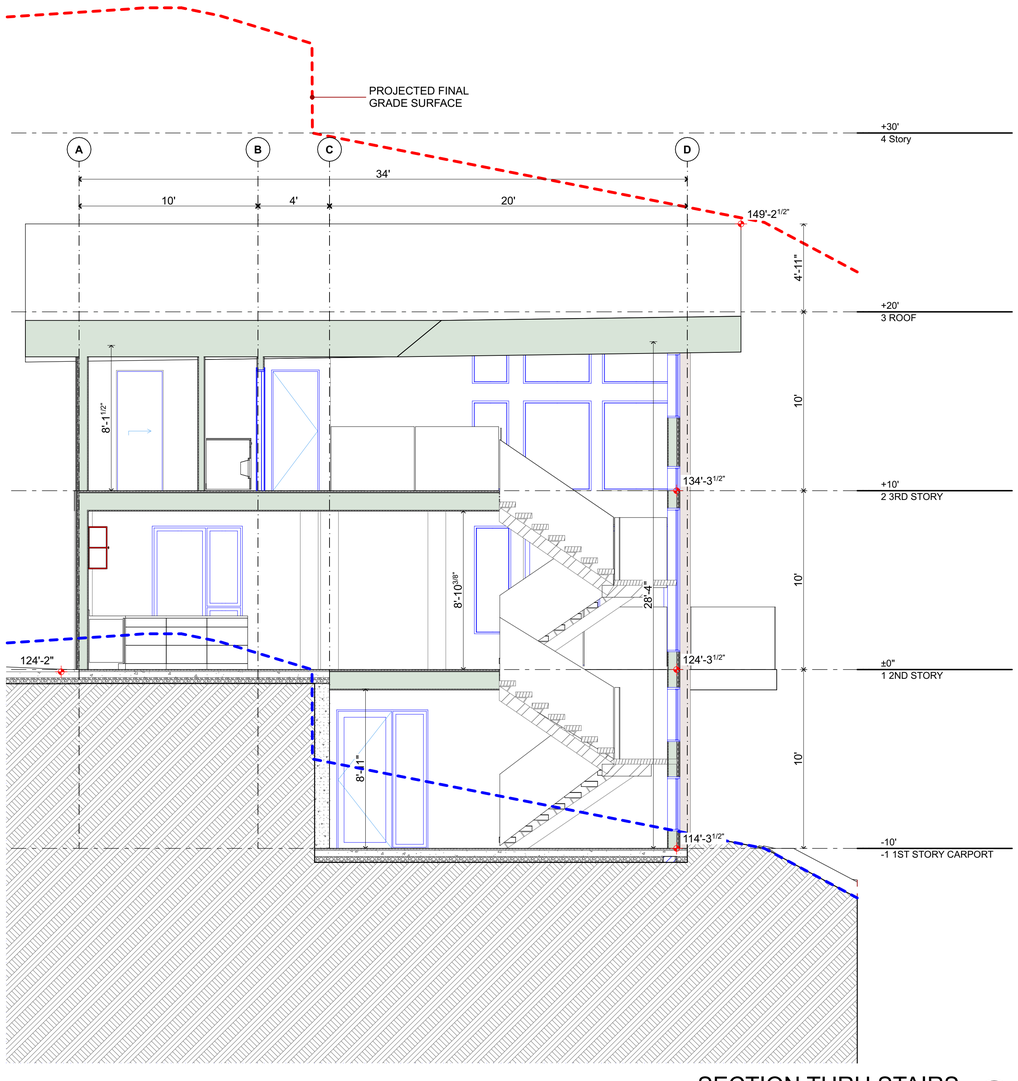
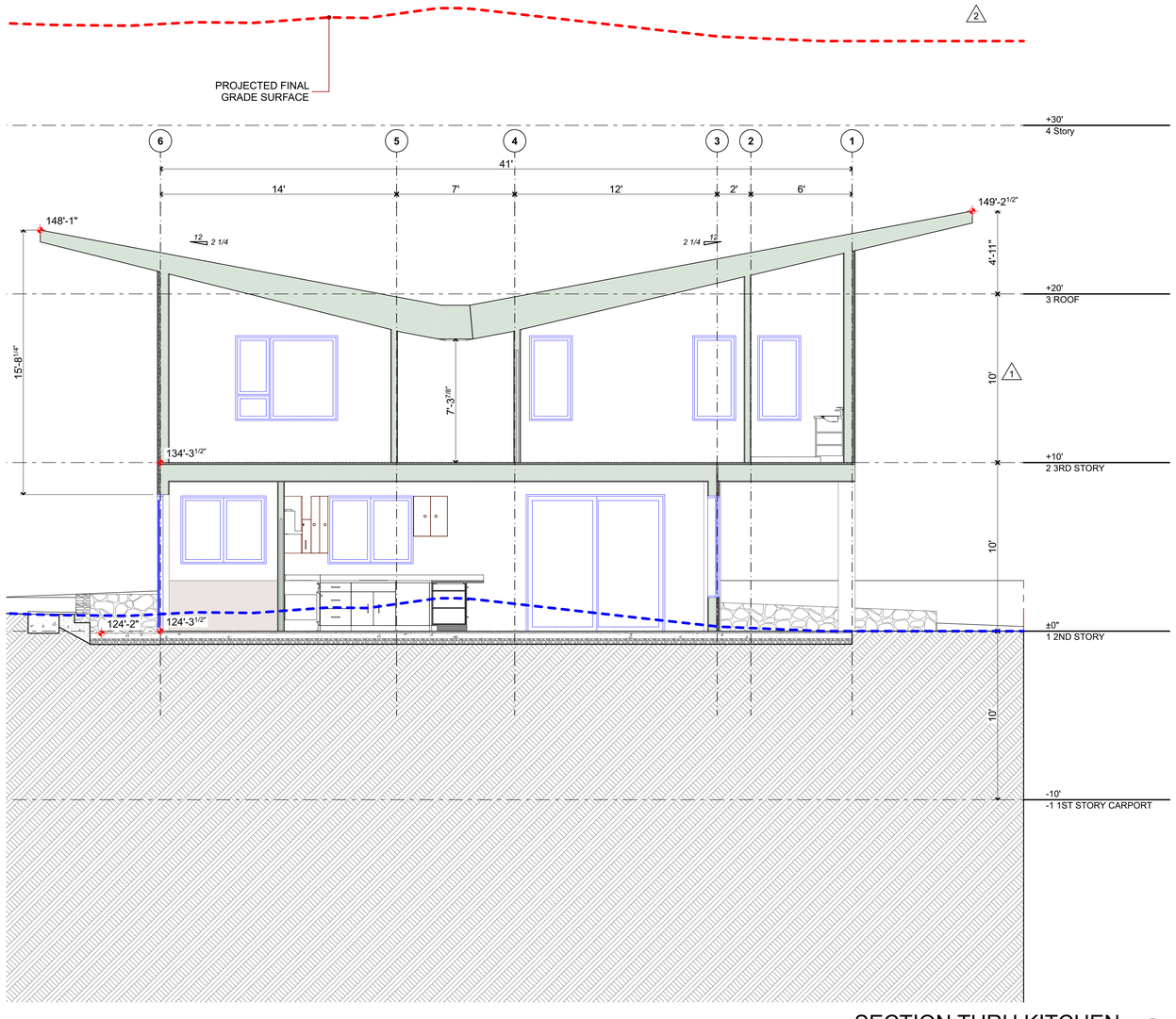


SECTION THRU STAIRS 2

SCALE: 1/4" = 1'-0"



SECTION THRU KITCHEN 1

SCALE: 1/4" = 1'-0"

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C-27909
RENEWAL 08/2025
STATE OF CALIFORNIA

SITE APPROVAL PERMIT

BUILDING SECTIONS

23.0911

GODSTON RESIDENCE

20411 HARVEY WAY

LOS GATOS, CA 95033

APN: 558-04-033

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1/19/2024

A3.2

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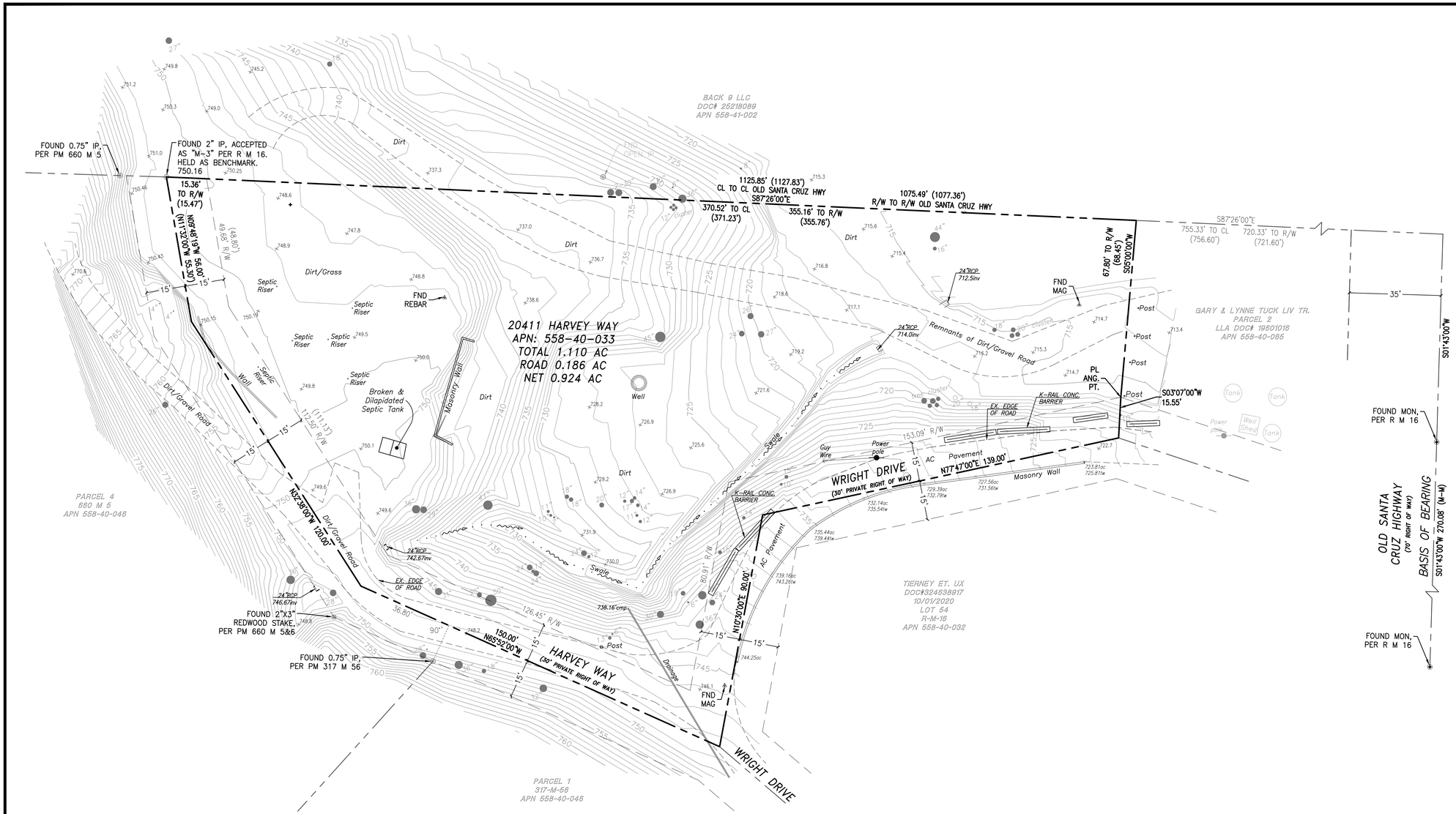


ADDITIONAL NOTES:

1) EXISTING / SHOWN "BROKEN & DILAPIDATED SEPTIC TANK" STRUCTURE TO BE REMOVED.

2) EXISTING / SHOWN "MASONRY WALL" STRUCTURE TO BE REMOVED.

SURVEYOR'S STATEMENT & NOTES:

1. ALL FEATURES SHOWN HEREON REPRESENT CONDITIONS OF THE PROJECT AREA AS COMPILED FROM A FIELD SURVEY IN MAY 2014 AND SUBSEQUENT SITE VISITS IN FEBRUARY 2015, JUNE 2024. NO ATTEMPT HAS BEEN MADE TO DETERMINE THE EXTENT OR EXISTENCE OF UNDERGROUND UTILITIES OR OTHER FEATURES NO SURFACE VISIBLE.
2. BENCHMARK: FOUND IP, ACCEPTED AS "M-3" PER R M 16; ELEV. 750.16
3. BASIS OF BEARING: THE BEARING S01°43'W OF THE MONUMENT LINE OF OLD SANTA CRUZ HIGHWAY PER R M 16 OF SANTA CLARA COUNTY RECORDS.
4. THIS SURVEY WAS PREPARED BY REQUEST OF THE OWNER OF THE SUBJECT PARCEL, MR. JON GODSTON

LICENSED LAND SURVEYOR
KEVIN R. WEISS
007139
STATE OF CALIFORNIA

KEVIN R. WEISS, L.S. 7139

DATE

TOPOGRAPHIC & BOUNDARY SURVEY

OF

LOT 31 OF "IDLEWILD SUBDIVISION NO. 3," PER R MAP 16
20411 HARVEY WAY

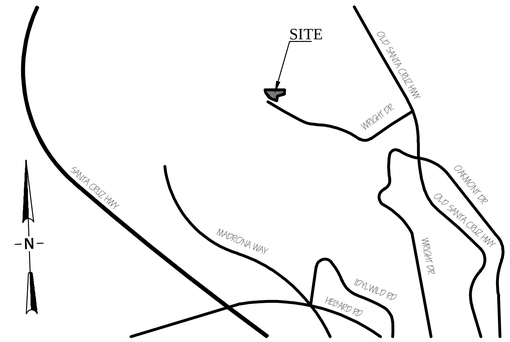
LOS GATOS CALIFORNIA

JMH weiss
Real Estate Development Consultants
Planning and Engineering
1731 Technology Drive, Ste 880
San Jose, CA 95110
Phone: (408) 286-4555
www.jmhweiss.com

1 OF 1	AS SHOWN	06/26/2024	5005
SHEET	SCALE	DATE	JOB NO.

GENERAL NOTES

1. TOPOGRAPHIC INFORMATION PROVIDED BY THE OWNER.
2. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE CONDITIONS AND SHALL HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY REAL OR ALLEGED LIABILITIES EXCEPT THOSE ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. CONTRACTOR SHALL NOTIFY DEBOLT CIVIL ENGINEERING TWO WORKING DAYS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION FOR CONSTRUCTION STAKES.
4. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT DEBOLT CIVIL ENGINEERING AT 925/837-3780 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
5. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 800/227-2600 72 HOURS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
6. ALL REVISIONS TO THIS PLAN MUST BE APPROVED BY THE TOWN OF DANVILLE PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO FOLLOW RECOMMENDATIONS FROM SOILS REPORT.
8. ALL TREES SHALL REMAIN EXCEPT FOR THOSE SHOWN ON THE IMPROVEMENT PLAN TO BE REMOVED. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT SO AS TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED AND PROPERLY GRADED AND SEALED. AN ARBORIST SHALL BE PRESENT FOR ANY CONSTRUCTION WORK NEAR OR UNDER THE TREES' DRIPLINE. TREE REMOVAL SHALL BE ALLOWED ONLY UPON PRIOR WRITTEN APPROVAL FROM THE PLANNING DIVISION.
9. CONTRACTOR TO USE CARE IN THE VICINITY OF EXISTING TREES TO REMAIN. A TEMPORARY FENCE SHOULD BE INSTALLED AROUND TREE FOR PROTECTION. CONTRACTOR TO FOLLOW ARBORIST'S RECOMMENDATION.
10. IN THE EVENT THAT SUBSURFACE ARCHAEOLOGICAL REMAINS ARE DISCOVERED DURING ANY CONSTRUCTION OR PRE-CONSTRUCTION ACTIVITIES ON THE SITE, ALL LAND ALTERATION WORK WITHIN 30.5 METERS (100 FEET) OF THE FIND SHALL BE HALTED, THE TOWN PLANNING DIVISION NOTIFIED, AND A PROFESSIONAL ARCHAEOLOGIST, CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY AND/OR THE SOCIETY OF PROFFESSIONAL ARCHAEOLOGY, SHALL BE NOTIFIED. SITE WORK IN THIS AREA SHALL NOT OCCUR UNTIL THE ARCHAEOLOGIST HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND OUTLINE APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY. IF PREHISTORIC ARCHAEOLOGICAL DEPOSITS ARE DISCIVERED DURING DEVELOPMENT OF THE SITE, LOCAL NATIVE AMERICAN ORGANIZATIONS SHALL BE CONSULTED AND INVOLVED IN MAKING RESOURCE MANAGEMENT DECISIONS.
11. CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO THE PERIOD BETWEEN THE WEEKDAY HOURS OF 7:30 A.M. TO 5:30 P.M. (MONDAYS THROUGH FRIDAYS), UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER FOR GENERAL CONSTRUCTION ACTIVITY AND THE CHIEF BUILDING OFFICIAL FOR BUILDING CONSTRUCTION ACTIVITY. PRIOR TO ANY CONSTRUCTION WORK ON THE SITE, INCLUDING GRADING, THE CONTRACT0R SHALL INSTALL A MINIMUM 3'X3' SIGN AT THE PROJECT ENTRY WHICH SPECIFIES THE ALLOWABLE CONSTRUCTION WORK DAYS AND HOURS, AND LISTS THE NAME AND CONTACT PERSON FOR THE OVERALL PROJECT MANAGER AND ALL CONTRACTORS AND SUB-CONTRACTORS WORKING ON THE JOB.
12. THE CONTRACTOR SHALL PROVIDE SECURITY FENCING, TO THE SATISFACTION OF THE CITY ENGINEER AND/OR THE CHIEF BUILDING OFFICIAL, AROUND THE SITE DURING CONSTRUCTION OF THE PROJECT.
13. THE CONTRACTOR AND SUBCONTRACTORS TO FIT ALL INTERNALCOMBUSION ENGINES WITH MUFFLERS WHICH ARE IN GOOD CONDITION, AND TO LOCATE STATIONARY NOISE-GENERATING EQUIPMENT AS FAR AWAY FROM EXISTING RESIDENCES AS FEASIBLE. WARMING OF CONSTRUCTION EQUIPMENT AND/OR SERVICING SUCH EQUIPMENT SHALL OCCUR ONLY WITHIN THE AUTHORIZED WORK PERIODS.
14. A WATERING PROGRAM WHICH INCORPORATES THE USE OF A DUST SUPPRESSANT, AND WHICH COMPLIES WITH REGULATION 2 OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT SHALL BE ESTABLISHED AND IMPLEMENTED FOR ALL ON AND OFF-SITE CONSTRUCTION ACTIVITIES. EQUIPMENT AND HUMAN RESOURCES FOR WATERING ALL EXPOSED OR DISTURBED SOIL SURFACES SHALL BE SUPPLIED ON WEEKENDS AND HOLIDAYS AS WELL AS WORK DAYS. DUST-PRODUCING ACTIVITIES SHALL BE DISCONTINUED DURING HIGH WIND PERIODS.
15. ANY GRADING ON ADJACENT PROPERTIES WILL REQUIRE PRIOR WRITTEN APPROVAL OF THOSE PROPERTY OWNERS AFFECTED.
16. AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF GRADING, THE CONTRACTOR SHALL POST THE SITE AND MAIL TO THE OWNERS OF THE PROPERTY WITHIN 300 FEET OF THE EXTERIOR BOUNDARY OF THE PROJECT SITE, TO THE HOMEOWNER ASSOCIATIONS OF NEARBY RESIDENTIAL PROJECTS AND TO THE TOWN OF DANVILLE DEVELOPMENT SERVICES DEPARTMENT, A NOTICE THAT CONSTRUCTION WORK WILL COMMENCE. THE NOTICE SHALL INCLUDE A LIST OF CONTRACT PERSONS WITH NAME, TITLE, PHONE NUMBER AND AREA OF RESPONSIBILITY. THE PERSON RESPONSIBLE FOR MAINTAINING THE LIST SHALL BE INCLUDED. THE LIST SHALL BE KEPT CURRENT AT ALLTIMES AND SHALL CONSIST OF PERSONS WITH AUTHORITY TO INITIATE CORRECTIVE ACTION IN THEIR AREA OF RESPONSIBILITY. THE NAMES OF INDIVIDUALS RESPONSIBLE FOR DUST, NOISE AND LITTER CONTROL SHALL BE EXPRESSLY IDENTIFIED IN THE NOTICE.
17. ALL CUT SLOPES SHALL BE ROUNDED TO MEET EXISTING GRADES AND BLEND WITH SURROUNDING TOPOGRAPHY. ALL GRADED SLOPES OVER 1.5 METERS (FIVE FEET) IN HEIGHT SHALL BE PLANTED WITH SUITABLE GROUND COVER.
18. ALL EARTH SWALES SHALL BE 1% MINIMUM SLOPES, AND 4% MAXIMUM SLOPES.
19. WHERE SOILS OR GEOLOGIC CONDITIONS ENCOUNTERED IN GRADING OPERATIONS ARE DIFFERENT FROM THAT ANTICIPATED IN THE SOILS REPORT, A REVISED SOILS REPORT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEER. IT SHALL BE ACCOMPANIED BY AN ENGINEERING AND GEOLOGICAL OPINION AS TO THE SAFETY OF THE SITE FROM SETTLEMENT AND SEISMIC ACTIVITY.
20. ALL DEVELOPMENT SHALL TAKE PLACE IN COMPLIANCE WITH THE TOWN EROSION CONTROL ORDINANCE (ORD. 91-25). RESTRICTIONS INCLUDE LIMITING CONSTRUCTION PRIMARILY TO THE DRY MONTHS OF THE YEAR (MAY THROUGH OCTOBER) AND, IF CONSTRUCTION DOES OCCUR DURING THE RAINY SEASON, THE DEVLEOPER SHALL SUBMIT AN EROSION CONTROL PLAN TO THE CITY ENGINEER FOR REVIEW AND APPROVAL. THIS PLAN SHALL INCORPORATE EROSION CONTROL DEVICES SUCH AS THE USE OF SEDIMENT TRAPS, SILT FENCING, PAD BERMING AND OTHER TECHNIQUES TO MINIMIZE EROSION.
21. ALL NEW DEVELOPMENT SHALL BE CONSISTENT WITH MODERN DESIGN FOR RESISTANCE TO SEISMIC FORCES. ALL NEW DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE AND TOWN OF DANVILLE ORDINANCES.
22. ALL CUT AND FILL AREAS SHALL BE APPROPRIATELY DESIGNED TO MINIMIZE THE EFFECTS OF GROUND SHAKING AND SETTLEMENT.
23. STOCKPILES OF DEBRIS, SOIL, SAND OR OTHER MATERIALS THAT CAN BE BLOWN BY THE WIND SHALL BE COVERED.
24. IF TOXIC OR CONTAMINATED SOIL IS ENCOUNTERED DURING CONSTRUCTION, ALL CONSTRUCTION ACTIVITY IN THAT AREA SHALL CEASE UNTIL THE APPROPRIATE ACTCION IS DETERMINED AND IMPLEMENTED. THE CONCENTRATIONS, EXTENT OF THE CONTAMINATION AND MITIGATION SHALL BE DETERMINED BY THE CONTRA COSTA COUNTY HEALTH DEPARTMENT. SUITABLE DISPOSAL AND/OR TREATMENT OF ANY CONTAMINATED SOIL SHALL MEET ALLFEDERAL STATE AND LOCAL REGULATIONS. IF DEEMED APPROPRIATE BY THE HEALTH DEPARTMENT, THE APPLICANT SHALL MAKE PROVISIONS FOR IMMEDIATE CONTAINMENT OF THE MATERIALS. RUNOFF FROM ANY CONTAMINATED SOIL SHALL NOT BE ALLOWED TO ENTER ANY DRAINGE FACILITY, INLET OR CREEK.
25. ALL GRADING ACTIVITY SHALL ADDRESS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONCERNS. SPECIFIC MEASURES TO CONTROLSEDIMENT RUNOFF, CONSTRUCTION POLLUTION AND OTHER POTENTIAL CONSTRUCTION CONTAMINATION SHALL BE ADDRESSED THROUGH THE EROSION CONTROL PLAN (ECP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A NPDES CONSTRUCTION PERMIT MAY BE REQUIRED, AS DETERMINED BY THE CITY ENGINEER.
26. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE ENGINEERING DIVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES WITHIN ANY PUBLIC RIGHT-OF-WAY OR EASEMENT.
27. ALL MUD OR DIRT CARRIED OFF THE CONSTRUCTION SITTE ONTO ADJACENT STREETS SHALL BE SWEPT EACH DAY. WATER FLUSHING OF SITE DEBRIS OR SEDIMENT OR CONCRETE WASHING IS EXPRESSLY PROHIBITED.
28. ANY DAMAGE TO STREET IMPROVEMENTS NOW EXISTING OR DONE DURING CONSTRUCTION ON OR ADJACENT TO THE SUBJECT PROPERTY SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER, AT FULL EXPENSE TO THE CONTRACTOR. THIS SHALL INCLUDE SLURRY SEAL, OVERLAY OR STREET RECONSTRUCTION IF DEEMED WARRANTED BY THE CITY ENGINEER.
29. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING CURB, GUTTER, SIDEWALKS, DRIVEWAYS, PAVING AND UTILITIES, SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED STANDARDS AND/OR PLANS AND SHALL COMPLY WITH THE STANDARD PLANS AND SPECIFICATIONS OF THE DEVELOPMENT SERVICES DEPARTMENT AND CHAPTERS XII AND XXXI OF THE TOWN CODE.
30. ALL NEW UTILITIES REQUIRED TO SERVE THE DEVELOPMENT SHALL BE INSTALLED UNDERGROUND.
31. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR TO EXPOSE AND VERIFY.
32. ANY ON-SITE WELLS SHALL BE RESET TO FINISH GRADE IN ACCORDANCE WITH CONTRA COSTA COUNTY HEALTH SERVICES DEPARTMENT -- ENVIRONMENTAL HEALTH DIVISION REGULATIONS.



VICINITY MAP

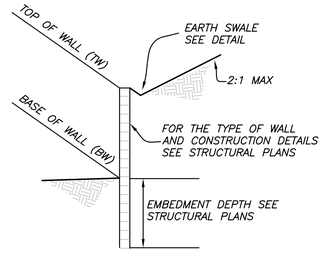
N.T.S.

ABBREVIATIONS:

BLDG	BUILDING
CONC	CONCRETE
(E)/EX	EXISTING
ESMT	EASEMENT
FNC	FENCE
INV.	INVERT
P.U.E	PRIVATE UTILITY EASEMENT
REBAR.	REBAR
( )	RECORD DATA
R/W	RIGHT OF WAY
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SDDI	STORM DRAIN DRAIN INLET
(T)	TOTAL
WM	WATER METER
WV	WATER VALVE

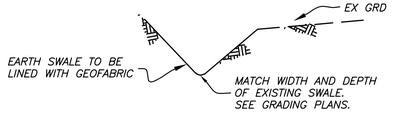
LEGEND:

S	SANITARY SEWER MANHOLE
WV	WATER VALVE
	FOUND MONUMENT AS NOTED
	STANDARD STREET MONUMENT
	EASEMENT LINE
	ADJACENT PROPERTY LINE
	BOUNDARY LINE
	TIE LINE
	CENTERLINE
W	EXISTING WATER LINE
EX SD	EXISTING STORM DRAIN PIPE
OE	EXISTING ELECTRIC CABLE
8"SS	EXISTING SANITARY SEWER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING BUILDING
	EXISTING CURB AND GUTTER
	EXISTING TREE



RETAINING WALL
TYPICAL SECTION

N.T.S.



EARTH SWALE

N.T.S.

SHEET INDEX

ALL PLANS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS SIGNED AND STAMPED BY THE ENGINEER AND REVIEWING AGENCY.

COVER SHEET

20411 HARVEY WAY

LOS GATOS SANTA CLARA COUNTY CALIFORNIA

EASTON C McALLISTER - PE 61148 / PLS 9583
RENEWAL DATE: 12/31/24 (PE) 03/31/25 (PLS)

#	REVISIONS	DATE

DEBOLT 50+ YEARS CIVIL ENGINEERING
(925) 837-3780 | OFFICE@DEBOLTCIVIL.COM
480 SAN RAMON VALLEY BLVD UNIT L, DANVILLE, CA 94526

Date: 11/13/24
Scale: N.T.S.
By: EM
Job No.: 23213

LEGEND

IMPERVIOUS ASPHALT PAVEMENT PER GEOTECH RECOMMENDATIONS.

PERMEABLE PAVER PATIO.

BUILDING OUTLINE.

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1 inch = 10 ft.

EARTHWORK SUMMARY

	CUT (CY)	FILL (CY)
HOUSE PADS	220±	5±
DRIVEWAY/SIDEWALK	190±	310±
YARDS & HILLSIDE	65±	185±
WATER TANK PAD	5±	5±
RAW QUANTITY	480±	505±
NET VOLUMETRIC DIFFERENCE CUT/FILL	25± CY NET CUT (IMPORT)	
TOTAL PROJECT AREA	10,677 SF	
MAXIMUM CUT	10.5'	
MAXIMUM FILL	7.5'	

DOMESTIC WATER STORAGE TANK (DESIGN BY OTHERS)

WATER TANK PAD FG 126.00

(2) FIRE WATER STORAGE TANK (DESIGN BY OTHERS)

FIRE WATER TANK SUPPLY LINE

DOMESTIC WATER TANK SUPPLY LINE

SEE SHEET CE-3

TW 736.5± BW/EP 734.30

TW 736.6± BW/EP 733.69

TW 736.7± BW/EP 733.00

TW 735.0± BW/EP 730.42

TW 726.2± BW/EP 726.05

EP 726.66

TW 736.1± BW/EP 731.50

TW 736.3± BW/EP 731.50

TW 728.0± BW/EP 726.66

CL 735.00

CL 733.00

8%

6" SD, S=0.02 MIN

TW 737.8± BW/EP 736.75

TW 738.4± BW/EP 737.24

TW 740.00 BW 737.80 FG 737.80

TW 740.36 BW/EP 737.36

TW 740.36 BW/EP 737.40

TW 749.80 BW/EP 737.67

TW 748.2± BW 747.80

TW 748.2± BW 747.80

4.5%

TW 737.7± BW/EP 736.89

TW 749.51 BW 747.80 BW (EX) 749.0±

TW 749.80 BW/EP 737.71

CONNECT HOUSE DRAINAGE TO 6" SD

EP 737.80

FG 747.80

EP 737.80 TW 747.80 BW 738.50

SEPTIC SYSTEM (DESIGN BY OTHERS)

PATIO FG 747.80

(N) 3-STORY RESIDENCE W/ OVERED PORCH FF 738.50 PAD 737.80

A

SEE SHEET CE-3

A

FG 747.80

TW 747.80 BW 738.50

FG 747.80

FG 739.00

TW 739.50 BW 739.00 BW (EX) 738.8±

TW 750.52 BW 747.80 BW (EX) 750.0±

TW 750.30 BW 747.80

TW 749.50 BW 747.80

FG 740.30

TW 743.50 BW 740.30 BW (EX) 743.0±

FG 748.80

N32°38'00"W 112.50'

N32°38'00"W 120.00'

HARVEY WAY

SEE SHEET CE-3

D

S87°26'00"E 170.52'

D

TW 721.05 EP 720.55 BW 715.8±

TW 721.45 EP 720.95 BW 720.7±

2.0%

0.5%

EP 720.89

EP 721.30

WHARF HYDRANT

CL 721.30

CL 720.68

3.5%

6" SD, S=0.02 MIN

EP 721.30

TW 720.50 EP 720.00 BW 716.1±

1.5%

TW 720.22 EP 719.72 BW 716.0±

12" SD INV 715.50

12" SD SDCB GR 719.70 INV 716.00

24" RCP CULVERT INV 712.5±

3.5%

CL 720.02

CL 719.90

TW 720.62 EP 720.12 BW 717.50

EP 720.65

TW 722.48 EP 721.98 BW 715.1±

TW 722.58 EP 722.08 BW 719.2±

TW 722.46 EP 722.0± BW 721.8±

4.0%

2.0%

CL 722.16

TW 722.50 EP 721.98 BW 722.00

EP 722.34

0.5%

EP (EX) 722.3±

TW 721.57 EP 721.07 BW 718.3±

1.0%

TW 721.00 EP 720.50 BW 719.8±

1.5%

24" RCP CULVERT INV 714.0

TW 720.58 EP 720.08 BW 716.68

ABANDON EX. 24" RCP CULVERT

SEE SHEET CE-3

EP (EX) 726.3±

PROTECT IN PLACE EX. 3 TREES

RE-ROUTE EX. SWALE

TW 720.74 EP 720.24 BW 720.00

CONNECT TO EX. WELL.

N77°47'00"E 153.09'

N77°47'00"E 139.00'

S10°00'00"W 61.80'

S10°00'00"W 80.91'

20.0' S.D.E.

WRIGHT DRIVE

SDCB
RIM 719.70
INV 716.00 (12" IN)
INV 716.00 (12" OUT)

OVERFLOW WEIR ELEV. 717.10

DISCHARGE

12" SD PIPE

12" SD INV 716.00

1.90" DIA. ORIFICE FLOW RESTRICTION

ORIFICE RESTRICTION FOR DETENTION

N.T.S.

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PRELIMINARY GRADING AND DRAINAGE PLAN

20411 HARVEY WAY

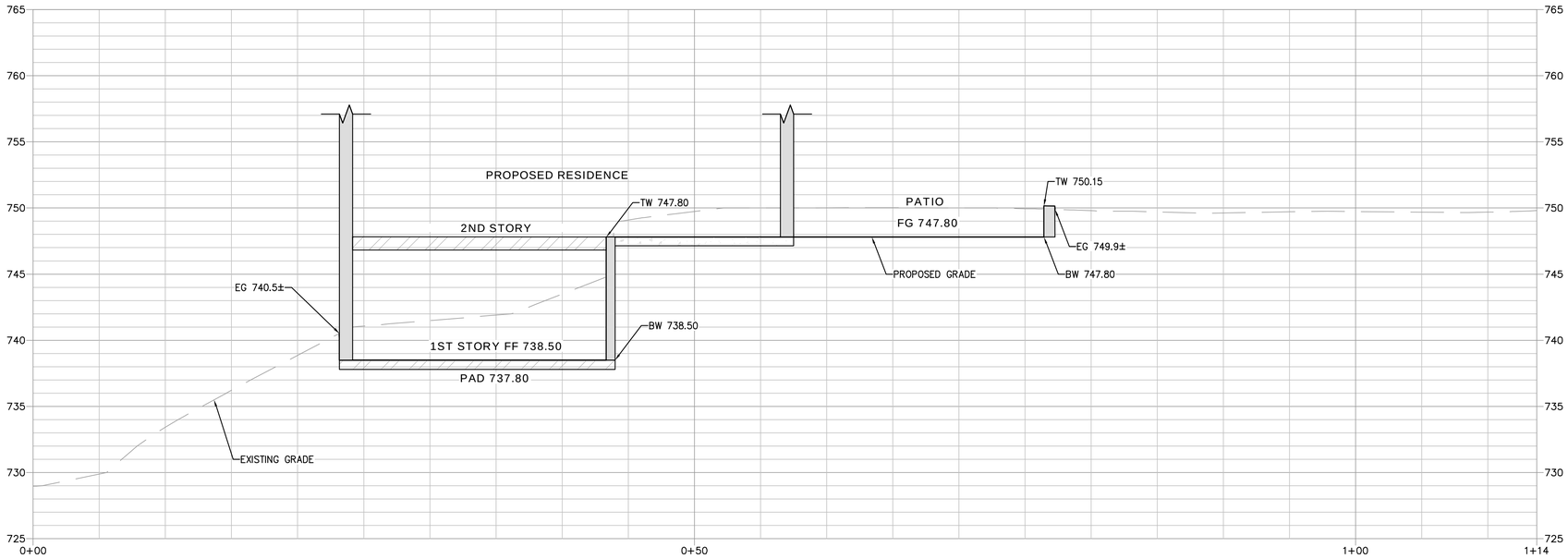
LOS GATOS SANTA CLARA COUNTY CALIFORNIA

EASTON C McALLISTER - PE 61148 / PLS 9583
RENEWAL DATE: 12/31/24 (PE) 03/31/25 (PLS)

#	REVISIONS	DATE

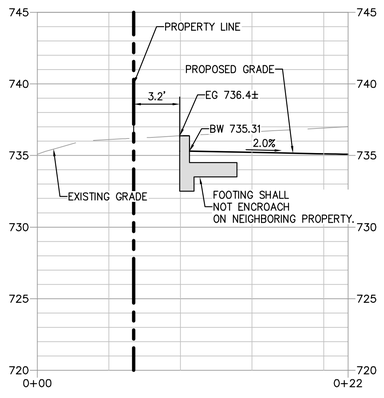
DEBOLT 50+ YEARS CIVIL ENGINEERING
(925) 837-3780 | OFFICE@DEBOLTCIVIL.COM
480 SAN RAMON VALLEY BLVD UNIT L, DANVILLE, CA 94526

Date: 11/13/24
Scale: 1" = 10'
By: EM
Job No.: 23213



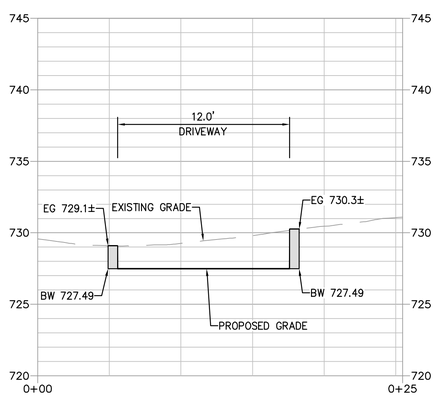
SECTION A-A

HORZ: 1"=5'
VERT: 1"=5'



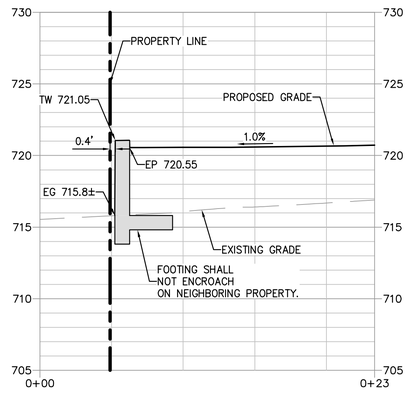
SECTION B-B

HORZ: 1"=5'
VERT: 1"=5'



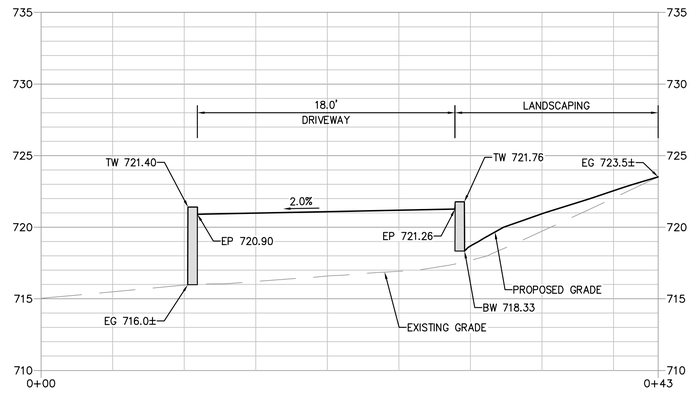
SECTION C-C

HORZ: 1"=5'
VERT: 1"=5'



SECTION D-D

HORZ: 1"=5'
VERT: 1"=5'



SECTION E-E

HORZ: 1"=5'
VERT: 1"=5'

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CROSS SECTION

20411 HARVEY WAY

LOS GATOS SANTA CLARA COUNTY CALIFORNIA

EASTON C McALLISTER - PE 61148 / PLS 9583
RENEWAL DATE: 12/31/24 (PE) 03/31/25 (PLS)

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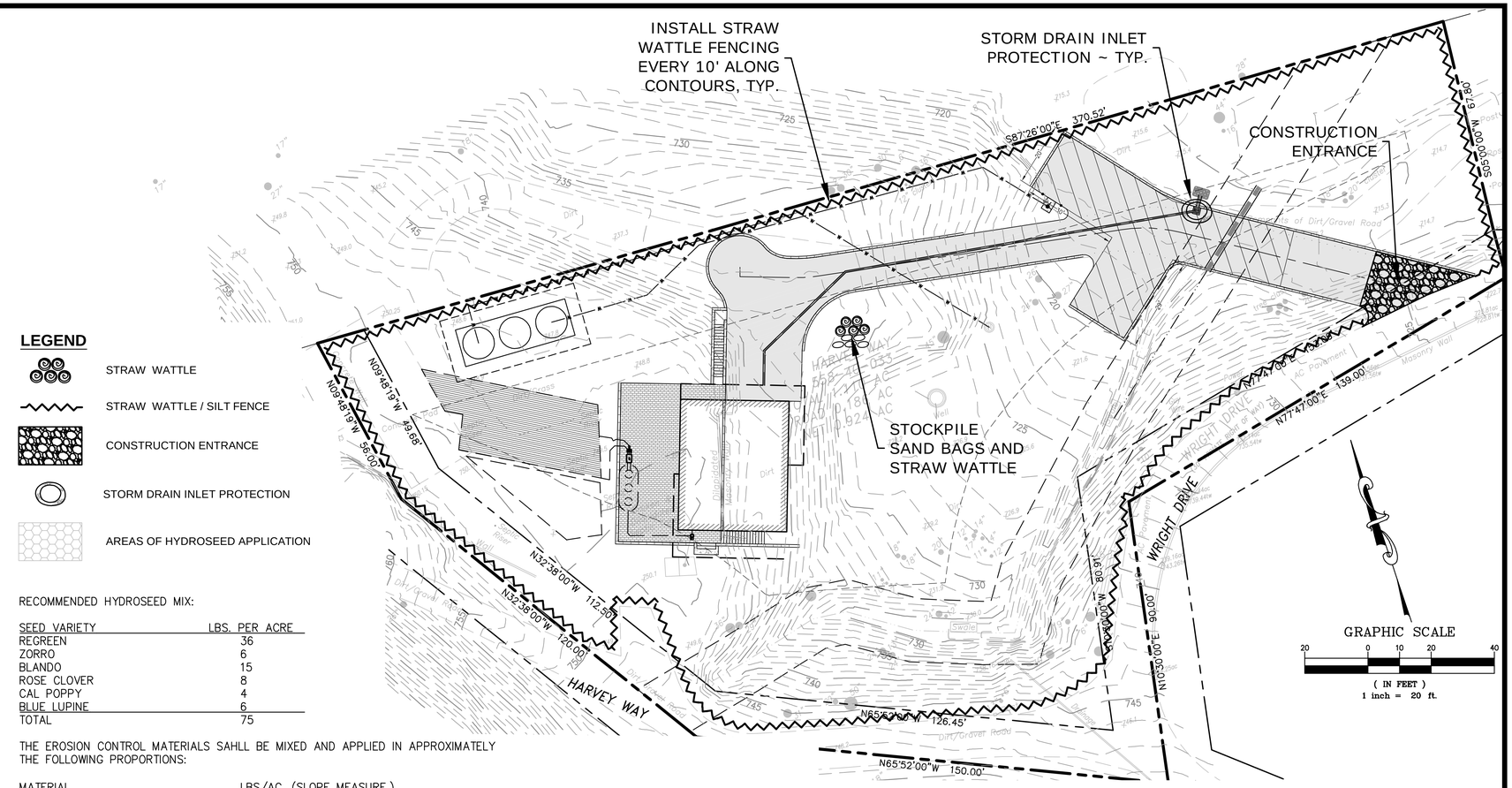
EROSION CONTROL NOTES

1. THIS EROSION CONTROL PLAN REPRESENTS THE MINIMUM REQUIRED EFFORT TO PREVENT TRANSPORT OF SEDIMENTATION DURING CONSTRUCTION ACTIVITIES AND DOES NOT REPRESENT A COMPREHENSIVE SOLUTION TO ALL CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE PROTECTION TO PREVENT EROSION AND ANY POTENTIAL DAMAGE CAUSED BY EROSION TO THE SITE, NEIGHBORING PROPERTIES OR THE REGIONAL STORM DRAINAGE SYSTEM.
2. THE EROSION CONTROL MEASURES ARE TO BE OPERABLE DURING THE RAINY SEASON, OCTOBER FIRST TO APRIL FIFTEENTH. EROSION CONTROL PLANTING IS TO BE COMPLETED BY OCTOBER FIRST. NO GRADING OR UTILITY TRENCHING SHALL OCCUR BETWEEN OCTOBER FIRST AND APRIL FIFTEENTH UNLESS AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE DIRECTOR OF PUBLIC WORKS.
4. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
5. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
6. A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT OF EGRESS FROM THE SITE TO ROADWAY. A CONSTRUCTION ENTRANCE SHOULD BE COMPOSED OF COARSE DRAIN ROCK (3" MINIMUM DIAMETER) AT LEAST EIGHT INCHES THICK BY FIFTY (50) FEET LONG FOR THE FULL WIDTH AND SHALL BE MAINTAINED UNTIL THE SITE IS PAVED.
7. TEMPORARY EROSION CONTROL DEVICES WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED ONLY WHEN THE GRADING INSPECTOR SO DIRECTS.
8. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND REMOVED DAILY AND AS DIRECTED BY THE INSPECTOR.
9. AFTER SEWER LATERAL AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHALL BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
10. EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN SHALL ALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FORECAST OF RAIN PROBABILITY EXCEEDS 40 % AND MAINTAINED DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15).
11. STRAW WATTLES AND SANDBAGS SHALL BE STOCKPILED AS SHOWN ON THE EROSION CONTROL PLAN READY TO BE PLACED IN POSITION WHEN RAIN FORECAST IS 40% OR WHEN DIRECTED BY THE INSPECTOR.
12. SANDBAGS REFERRED TO IN THE PRECEDING ITEMS MUST BE FULL. APPROVED SANDBAG FILL MATERIALS ARE SAND, DECOMPOSED GRANITE, AND/OR GRAVEL OR OTHER MATERIALS APPROVED BY THE INSPECTOR.
13. THE DOWNSTREAM STORM SYSTEM SHOULD BE INSPECTED TO VERIFY THAT THE SYSTEM IS CLEAR OF OBSTRUCTIONS AND FUNCTIONING PROPERLY.
14. AS PART OF THE EROSION CONTROL MEASURES, THE UNDERGROUND STORM DRAIN FACILITIES SHOULD BE INSTALLED COMPLETE AS SHOWN ON THESE PLANS.
15. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THESE PLANS IN THE FIELD, SUBJECT TO APPROVAL OF THE CITY ENGINEER.
16. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE ASSOCIATION OF BAY AREA GOVERNMENTS (ABAG) "MANUAL OF STANDARDS FOR EROSION AND SEDIMENT CONTROL." MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE CITY ENGINEER.
17. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (SEEDED) TO THE SATISFACTION OF THE INSPECTOR.

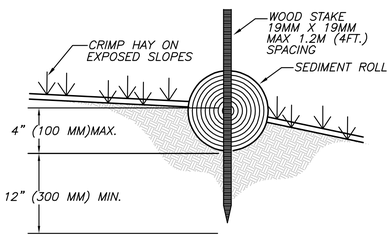


RECOMMENDED HYDROSEED MIX:

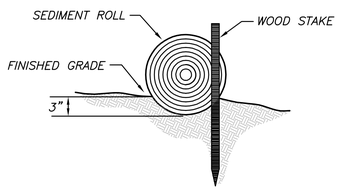
SEED VARIETY	LBS. PER ACRE
REGREEN	36
ZORRO	6
BLANDO	15
ROSE CLOVER	8
CAL POPPY	4
BLUE LUPINE	6
TOTAL	75

THE EROSION CONTROL MATERIALS SAHLL BE MIXED AND APPLIED IN APPROXIMATELY THE FOLLOWING PROPORTIONS:

MATERIAL	LBS/AC. (SLOPE MEASURE.)
SEED	75 LBS
WOOD FIBER MULCH	2,000 LBS
R BINDER	60 LBS
FERTILIZER	400 LBS
WATER	AS NEEDED FOR APPLICATION

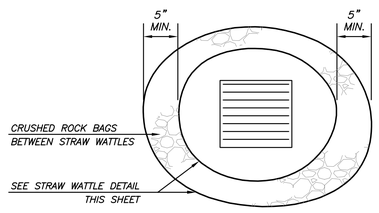


ENTRENCHMENT DETAIL IN SLOPE AREA
N.T.S.

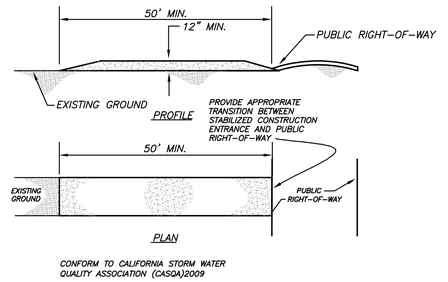


ENTRENCHMENT DETAIL IN FLAT AREAS
N.T.S.

STRAW WATTLE DETAILS
N.T.S.



INLET PROTECTION DETAIL
N.T.S.



STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.

EROSION CONTROL PLAN

20411 HARVEY WAY

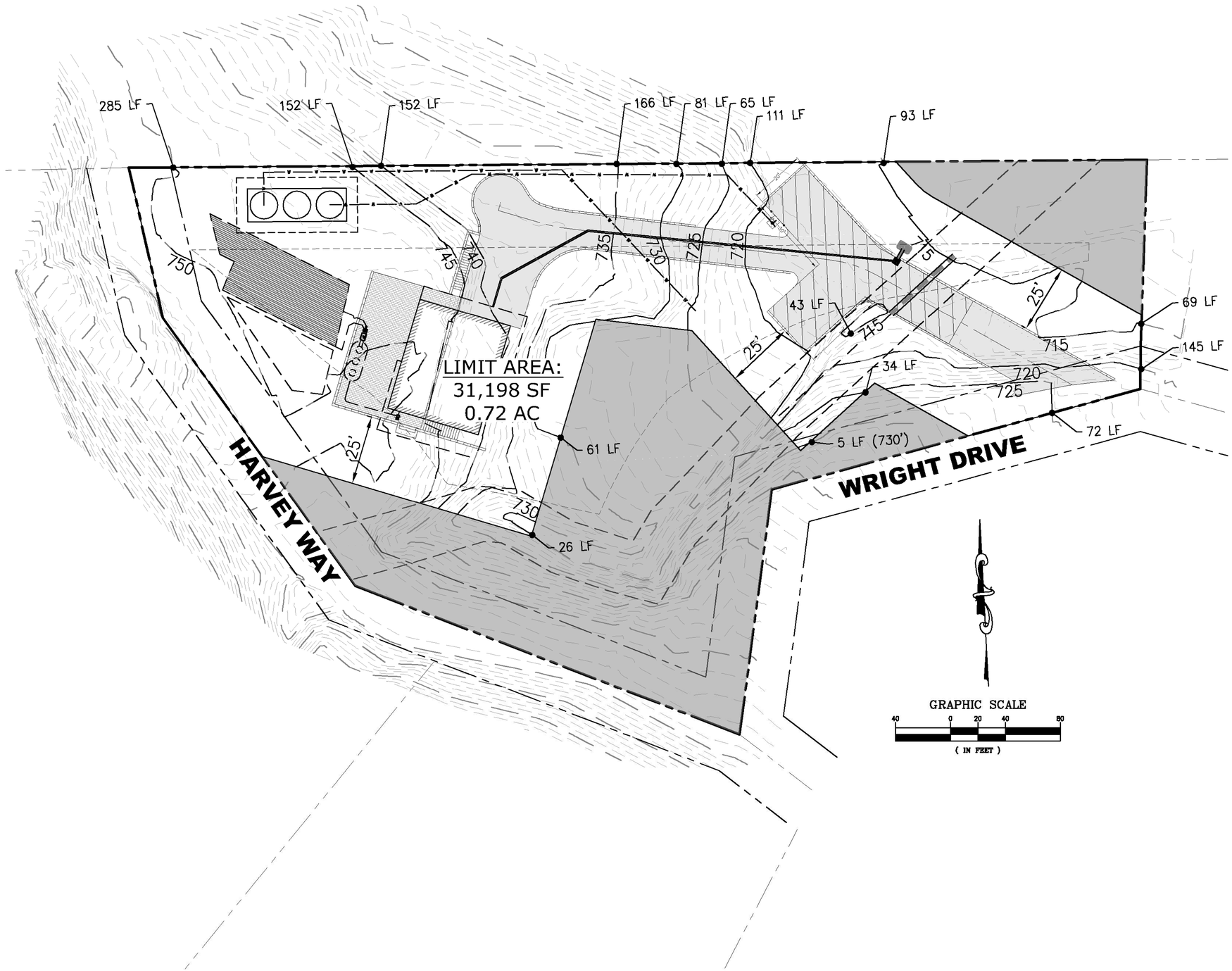
LOS GATOS SANTA CLARA COUNTY CALIFORNIA

EASTON C McALLISTER - PE 61148 / PLS 9583
RENEWAL DATE: 12/31/24 (PE) 03/31/25 (PLS)

#	REVISIONS	DATE

DEBOLT 50+ YEARS CIVIL ENGINEERING
(925) 837-3780 | OFFICE@DEBOLTCIVIL.COM
480 SAN RAMON VALLEY BLVD UNIT L, DANVILLE, CA 94526

Date: 11/13/24
Scale: 1" = 20'
By: EM
Job No.: 23213



GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

Slope Density Calculation
23213-20411 Harvey Way
Dated: 11/18/24

Interval 5 ft

Contour	Length
715	205
720	256
725	171
730	173
735	166
740	152
745	152
750	285
Total	**1,560**

SLOPE DENSITY

$$\text{SLOPE DENSITY} = \frac{0.00229 * I * L}{A}$$

$$\frac{0.00229 * 5 * 1{,}560}{0.72} = 24.8\%$$

SLOPE DENSITY = 24.8%

REGISTERED PROFESSIONAL ENGINEER
EASTON C. McALLISTER
No. 61148
EXP. 12/31/24
CIVIL
STATE OF CALIFORNIA

DEBOLT

20411 HARVEY WAY
SLOPE DENSITY

Revisions

No.

Date
Scale
Job No.
Drawing

1

PLOT DATE: 11-18-24 PLOTTED BY: emile

LANDS OF GODSTON

SUBSURFACE DRIP SEWAGE DISPOSAL SYSTEM

20411 HARVEY WAY, LOS GATOS CA 95033

APN: 558-400-33

GENERAL NOTES

1. DRIP LINES SHALL FOLLOW THE NATURAL CONTOUR OF THE GROUND; TRENCH BOTTOMS SHALL BE LEVEL. THE MAXIMUM DEVIATION ALONG THE DOWNHILL SIDE OF THE TRENCH SHALL NOT VARY MORE THAN 0.25 FEET (THREE INCHES) VERTICALLY PER A 100 FOOT RUN. DISTRIBUTION TRENCHES SHALL BE ANGLED OR CURVED TO MEET THIS REQUIREMENT.
2. BACKFILL MATERIAL SHALL BE NATIVE TOP SOIL PLACE AT NATIVE COMPACTION AND MOUNDED FOR SETTLEMENT.
3. PLACE CLEANOUTS EVERY 100' ON GRAVITY MAIN FROM SERVICE CONNECTION TO TANK.
4. CONTACT **HOGAN LAND SERVICES** (831-425-1617) AND SANTA CLARA COUNTY ENVIRONMENTAL HEALTH (408-918-3400) A MIN. OF 48 HOURS BEFORE INITIATING CONSTRUCTION AND PRIOR TO ALL INSPECTION REQUESTS.
5. ALL TANKS SHALL BE SIZED ACCORDING TO PLAN AND IAPMO APPROVED. ALL TANKS SHALL HAVE APPROVED RISERS THAT EXTEND 2" ABOVE SURROUNDING GRADE.
6. AT THE TIME OF INSPECTION OF THE DISPOSAL FIELD THE CONTRACTOR SHALL PERFORM A HYDRAULIC PUMP TEST FOR BOTH THE ES-6 UNIT AND DRIP FIELD.
7. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. ALL MECHANICAL, PLUMBING AND ELECTRICAL WORK SHALL CONFORM TO THE APPROPRIATE CODES ADOPTED BY THE COUNTY OF SANTA CLARA.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND AVOIDING UTILITY LINES IN THE WORK AREA.
9. THE INSTALLATION OF THIS SEWAGE DISPOSAL SYSTEM MAY BE RESTRICTED TO CERTAIN TIMES OF THE YEAR BASED ON SEASONAL GROUND WATER AND WEATHER CONDITIONS. CONTRACTOR TO VERIFY STARTING TIME WITH HOGAN LAND SERVICES AND SANTA CLARA COUNTY ENVIRONMENTAL HEALTH.
10. QUESTIONS REGARDING THE SUITABILITY OF ANY MATERIALS OR CONSTRUCTION PROCEDURES USED IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS SHALL BE DIRECTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
11. ALL SEPTIC TANK AND SUMP JOINTS TO BE WATERTIGHT: SEAL WITH RAMNEK JOINT COMPOUND OR EQUAL. SEAL PIPES EXTENDING THROUGH TANK WALLS WITH NON-SHRINK GROUT OVERLAID WITH XYPEX OR THOROSEAL OR PRECAST INTO SUMP. TANK AND RISER JOINT SHALL BE SEALED AND MADE WATER TIGHT WITH NON-SHRINK GROUT OVERLAID WITH XYPEX OR THOROSEAL.
12. THIS SEWAGE DISPOSAL SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE A PEAK DAILY FLOW OF 525 GALLONS PER DAY. WATER CONSERVATION MEASURES MAY BE NECESSARY TO MAINTAIN THESE WATER USAGE LIMITS. LOW FLOW TOILETS (1.6 GALLONS MAXIMUM PER FLUSH) ARE REQUIRED.
13. FILL MATERIAL SHALL BE REMOVED FROM LEACHING AND TANK AREAS PRIOR TO INSTALLATION.

INSTALLATION GUIDELINES

ALL GEOFLOW DRIP SYSTEMS REQUIRE:
100 MICRON / 150 MESH FILTER, FILTER FLUSH VALVE, FIELD FLUSH VALVE AND AIR VENT IN EACH ZONE. ALL WASTEFLOW CLASSIC DRIP SYSTEMS REQUIRE PRESSURE REGULATION. SYSTEM TO BE INSTALLED BY LICENSED CONTRACTOR WITH AT LEAST 5 YEARS EXPERIENCE. HANDLE DRIPLINES AND COMPONENTS WITH CARE. ROOTGUARD IS TEMPERATURE SENSITIVE. TO ASSURE A LONG LIFE STORE THE DRIP LINE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. THIS SHOULD BE A CONSIDERATION WHEN INSTALLING THE SYSTEM IN VERY HOT AND SUNNY AREAS.

A) ALL DRIPFIELD CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH LOCAL RULES AND REGULATIONS.

B) NO UTILITIES, CABLE WIRE, DRAINAGE LINES, ETC. SHALL BE LOCATED IN DRIPFIELD.

C) TAKE MEASURES TO PREVENT COMPACTION OF THE DRIP FIELD DURING AND AFTER CONSTRUCTION.

D) THE SYSTEM IS NOT TO BE INSTALLED WHEN GROUND IS WET OR FROZEN.

E) DIVERT ALL DOWNSPOUTS AND SURFACE WATERS AWAY FROM DRIPFIELD.

F) ALL MATERIALS REQUIRED FOR THE INSTALLATION SHOULD BE ON SITE PRIOR TO OPENING TRENCHES. PRE-ASSEMBLE COMPONENTS AS PRACTICAL ABOVE GROUND AND IN A COMFORTABLE PLACE. COMPRESSION OR LOCKSLIP ADAPTERS SHOULD BE GLUED TO PVC TEES, RISER UNITS SHOULD BE PRE-ASSEMBLED, THE SUB-MAIN MANIFOLD WITH TEES CAN BE PRE-ASSEMBLED AND USED TO MARK THE BEGINNING AND END OF WASTEFLOW LINES.

G) THE SOIL SURFACE SHOULD BE DRY SO THAT THE INSTALLATION EQUIPMENT MAINTAINS TRACTION. PROPER PRECAUTION SHOULD BE TAKEN TO REDUCE SMEARING AND COMPACTION OF THE DRAINFIELD AND THE TRENCH SIDEWALLS.

H) MARK THE FOUR CORNERS OF THE FIELD. THE TOP TWO CORNERS SHOULD BE AT THE SAME ELEVATION AND THE BOTTOM TWO CORNERS SHOULD BE AT A LOWER ELEVATION. IN FREEZING CONDITIONS THE BOTTOM DRIPLINE MUST BE HIGHER THAN THE SUPPLY AND RETURN LINE ELEVATION AT THE DOSING TANK.

I) INSTALL THE DOSING TANK PER PLAN. IN FREEZING CONDITIONS THE DOSING TANK SHOULD BE AT THE LOWEST ELEVATION OF THE ENTIRE SYSTEM. INSTALL A WATERTIGHT RISER ON THE DOSING TANK.

J) DETERMINE THE PROPER SIZE FOR THE SUPPLY AND RETURN MANIFOLDS. SEE WORKSHEET & PLAN.

L) INSTALL THE PVC SUPPLY LINE FROM THE DOSING TANK TO THE TOP FEED MANIFOLD ON THE SUPPLY SIDE OF THE DISPERSION FIELD. 24" MINIMUM COVER FOR SUPPLY, RETURN AND PRESSURE MAINS.

M) PAINT A LINE BETWEEN THE TWO CORNER STAKES ON THE RETURN SIDE OF THE DISPERSION FIELD.

N) INSTALL THE GEOFLOW WASTEFLOW DRIPLINE BY HAND WITH 3" WIDE SHOVEL FROM THE SUPPLY SIDE OF THE DISPERSION FIELD TO THE PAINTED LINE, TO AN 8" MINIMUM DEPTH OR AS SPECIFIED. UPON REACHING THE PAINTED LINE, PULL THE PLOW OUT OF THE GROUND AND CUT THE DRIPLINE ONE FOOT ABOVE THE GROUND. TAPE THE END OF THE DRIPLINE TO PREVENT DEBRIS FROM ENTERING. CONTINUE THIS PROCESS UNTIL THE REQUIRED FOOTAGE OF DRIP LINE IS INSTALLED. GEOFLOW DRIPLINE MUST BE SPACED ACCORDING TO SPECIFICATION (TWO FEET IS STANDARD). DEPTH OF BURIAL OF DRIPLINE MUST BE CONSISTENT THROUGHOUT THE FIELD. TAKE CARE NOT TO GET DIRT INTO THE LINES. SERPENTINE LINES MAY BE UTILIZED TO REDUCE THE NUMBER OF REQUIRED TEE'S. MAX ALLOWABLE LENGTH OF A SINGLE WASTEFLOW LINE SHALL BE NO MORE THAN 100'.

O) INSTALL THE SUPPLY TOP FEED MANIFOLD. HOOK UP THE GEOFLOW LINES TO THE TOP FEED MANIFOLD PER DETAIL/PLAN. DO NOT GLUE WASTEFLOW DRIPLINE.

INSTALLING LOCKSLIP FITTINGS

A) HOLD THE FITTING IN ONE HAND AND POSITION THE TUBING WITH THE OTHER HAND.

B) MOVE THE SLEEVE BACK, AND PUSH THE TUBING ONTO THE EXPOSED STEM AS FAR AS POSSIBLE.

C) PUSH THE SLEEVE OUT OVER THE TUBING AND THREAD THE SLEEVE ONTO TUBING, AS THOUGH TIGHTENING A NUT TO A BOLT. HAND TIGHTEN. DO NOT USE TOOLS.

D) INSTALL THE VORTEX FILTER AND FILTER FLUSH VALVE, OR INSTALL THE PRE-ASSEMBLED HEADWORKS BETWEEN THE FIELD AND THE PUMP TANK ON THE SUPPLY LINE. *INSULATE THE BOX IN FREEZING CONDITIONS. INSTALL SUPPLY AND RETURN FLOW METERS IN CONCRETE OR PLASTIC BOX PER DETAIL.

E) IF USING A PRESSURE REGULATOR, INSTALL IT DOWNSTREAM OF THE FILTER OR HEADWORKS, JUST AHEAD OF THE DISPERSAL FIELD, ON THE SUPPLY LINE. INSTALL THE PRESSURE REGULATOR INSIDE A SMALL VALVE BOX FOR EASY ACCESS. *INSULATE THE BOX IN FREEZING CONDITIONS.

F) INSTALL THE FLOATS IN THE DOSING TANK AND WIRE TO THE TIMER CONTROL. THE TIMER CONTROL SHOULD BE SET TO PUMP NO MORE THAN THE DESIGN FLOW, DO NOT SET TO MATCH THE TREATMENT CAPACITY. 3 FLOAT SYSTEM REQUIRED FOR TIME DOSED SETUP.

G) INSTALL THE PUMP. FILL THE DOSING TANK WITH FRESH WATER AND TURN ON THE PUMP. CHECK FOR FLOW OUT THE ENDS OF ALL OF THE GEOFLOW LINES. LET THE PUMP RUN FOR ABOUT FIVE MINUTES TO FLUSH OUT ANY DIRT. SHUT OFF THE PUMP AND TAPE THE ENDS OF THE LINES.

H) DIG THE RETURN SIDE TOP FEED MANIFOLD DITCH ALONG THE LINE PAINTED ON THE GROUND AND BACK TO THE PRE-TREATMENT TANK. START THE RETURN HEADER AT THE FURTHEST END FROM THE DOSING TANK. THE RETURN LINE MUST HAVE SLOPE BACK TO THE TREATMENT TANK OR SEPTIC TANK.

I) INSTALL THE RETURN SIDE TOP FIELD MANIFOLD AND CONNECT ALL OF THE GEOFLOW LINES. CARE MUST BE TAKEN NOT TO KINK THE DRIPLINE.

J) INSTALL AIR VACUUM BREAKERS AT THE HIGHEST POINTS IN THE DISPERSAL FIELD. USE PIPE DOPE OR TEFLON TAPE AND HAND TIGHTEN.

K) CONNECT THE RETURN LINE BACK THROUGH THE HEADWORKS BOX & FIELD FLUSHING VALVE. OPEN THE FIELD FLUSH VALVE AND TURN ON THE PUMP TO FLUSH LINES THEN CLOSE THE VALVE AND CHECK THE FIELD AND ALL PIPING AND CONNECTIONS FOR LEAKS. TURN OFF THE SYSTEM.

L) TURN ON THE PUMP AND CHECK THE PRESSURE AT THE AIR VACUUM BREAKER(S). IT SHOULD BE BETWEEN 15 TO 45 PSI. CHECK THE PRESSURE IN THE WASTEFLOW HEADWORKS. IT SHOULD BE FIVE PSI OR HIGHER. IF USING A MANUAL VALVE FOR FIELD FLUSHING, CRACK IT OPEN UNTIL AT LEAST ONE PSI IS LOST OR DESIGN PRESSURE IS REACHED AND LEAVE IN THAT POSITION.

M) CHECK THE FILTER FOR CONSTRUCTION DEBRIS AND CLEAN.

N) PROVIDE OWNER WITH FINAL AS-BUILT DIAGRAMS, FLOW MEASUREMENTS AND PRESSURE READINGS AT STARTUP.

VALVE INSTALLATION AND OPERATION

A) WRAP MALE ADAPTERS WITH 2 WRAPS OF TEFLON TAPE AND THREAD THE ADAPTERS INTO THE VALVE INLET AND OUTLET 1 TURN PAST HAND TIGHT. CAUTION: OVER TIGHTENING MAY CAUSE DAMAGE TO THE VALVE. THE SOLENOID IS LOCATED ON THE DOWNSTREAM SIDE OF THE VALVE.

B) USING WATERTIGHT CONNECTORS, CONNECT THE VALVE COMMON AND AN INDIVIDUAL OUTPUT WIRE TO THE SOLENOID LEADS.

C) FLUSH THE LATERALS BY OPENING THE INTERNAL MANUAL BLEED LEVER ON THE DOWNSTREAM SIDE OF THE SOLENOID. TURN THE FLOW CONTROL STEM FULLY OPEN (COUNTERCLOCKWISE) FOR FLOW CONTROL MODELS.

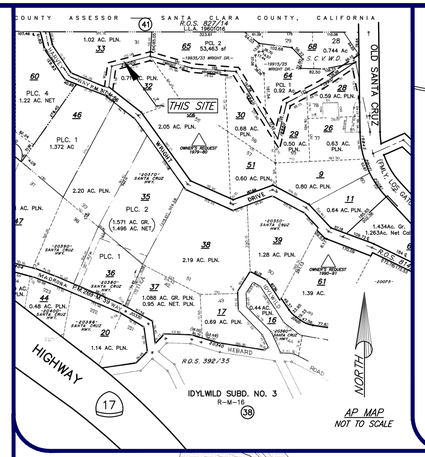
D) CLOSE THE INTERNAL MANUAL BLEED AFTER FLUSHING THE SYSTEM.

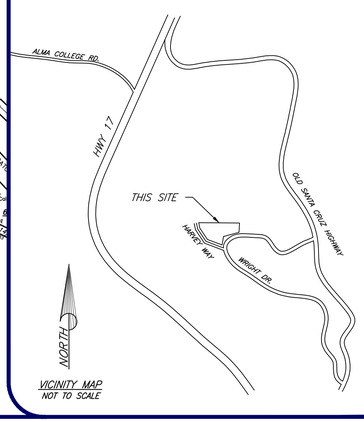
NOTES TO OWNER, CONTRACTOR, & OTHERS

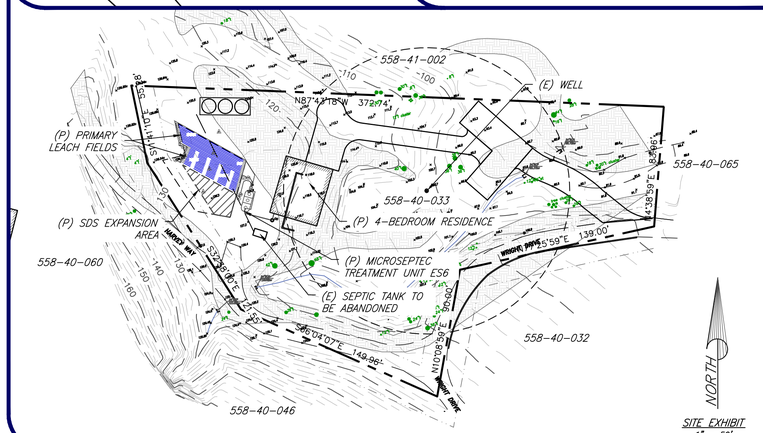
1. INSTALLATION OF THIS DESIGN WILL REQUIRE A MINIMUM OF ONE SITE REVIEW BY THE ENGINEER DURING CONSTRUCTION. ADDITIONAL REVIEWS MAY BE REQUIRED DEPENDING ON THE ABILITY OF THE CONTRACTOR TO COMPLETE THE SYSTEM IN A TIMELY MANNER AND PER PLAN. ALL FIELD REVIEWS WILL BE BILLED TO THE OWNER AT THE PRINCIPAL ENGINEER RATE SHOWN IN THE PROFESSIONAL SERVICE AGREEMENT.
2. ADDITIONALLY, THE SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH REQUIRES A LETTER OF DESIGN CONFORMANCE AND AN AS-BUILT PLAN ISSUED BY THE ENGINEER ASSESSING DESIGN COMPLIANCE AND NOTING ANY SUBSTANTIVE CHANGES TO THE APPROVED PLAN. THIS LETTER AND PLAN IS PREPARED AND SENT UPON COMPLETION OF CONSTRUCTION AND SATISFACTION OF ALL OUTSTANDING INVOICES DUE TO THE ENGINEER.
3. SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH REQUIRES ALTERNATIVE SYSTEMS TO HAVE AN OPERATING PERMIT WITH THE COUNTY AND AN ONGOING SERVICE PROVIDER AGREEMENT. THESE TWO CONDITIONS WILL BE RECORDED ON THE PROPERTY DEED.
4. SUBSURFACE CONDITIONS MAY BE COMPLEX AND MAY DIFFER FROM THOSE INDICATED BY SURFACE FEATURES OR AS ENCOUNTERED AT PERCOLATION TEST HOLE OR PROFILE TRENCH LOCATIONS. THEREFORE, ROCK OR OTHER VARIATIONS IN SUBSURFACE CONDITIONS NOT INDICATED IN REPORTS OR SHOWN ON THIS PLAN COULD BE ENCOUNTERED. HOGAN LAND SERVICES SHOULD BE NOTIFIED IMMEDIATELY IF ANY ADVERSE CONDITIONS ARE DISCOVERED DURING CONSTRUCTION SO THAT TIMELY ACTION CAN BE TAKEN TO MODIFY THIS PLAN AND/OR THE SYSTEM HEREIN DESIGNED.
5. THIS PLAN AND DESIGN IS BASED ON CURRENT STANDARDS AND TECHNICAL DATA REQUIREMENTS OF THE SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COMPLIANCE WITH CURRENT COUNTY CODES, STANDARDS, AND REQUIREMENTS IS NOT A GUARANTEE OF WARRANTY, EITHER EXPRESSED OR IMPLIED, OF SEPTIC SYSTEM FUNCTION OR PERFORMANCE OF THE SYSTEM.
6. HOGAN LAND SERVICES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY HOGAN LAND SERVICES. IN ADDITION, THE ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE FUNCTION OF ANY OF THE SYSTEM COMPONENTS MANUFACTURED/DESIGNED BY OTHERS.
7. THE CONSTRUCTION CONTRACTOR AGREES IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, HE/SHE WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL EXEMPT FROM ANY AND ALL LIABILITY IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
8. PRINTS OF THESE PLANS USED IN CONSTRUCTION MUST HAVE A "WET" STAMP OF APPROVAL APPLIED BY THE SANTA CLARA COUNTY DEPARTMENT ENVIRONMENTAL HEALTH TO INDICATE THAT A PERMIT TO INSTALL THE SEPTIC SYSTEM HAS BEEN GRANTED. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR CONSTRUCTION DONE WITHOUT PERMITS OR THE COUNTY APPROVED PLAN(S).
9. THE SITE EXHIBITS ASSOCIATED WITH THE PRODUCTION OF THESE PLANS DOES NOT REPRESENT A BOUNDARY DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. PROPERTY LINES SHOWN IN THESE EXHIBITS ARE FOR GENERAL REFERENCE ONLY. ANY USE OF THESE PLANS OTHER THAN FOR INSTALLATION OF THE PROPOSED SEPTIC SYSTEM IS AT THE RISK OF THE DEVELOPER.
10. SHOULD TREE ROOT ZONE BE IMPACTED, IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSULT WITH A QUALIFIED ARBORIST TO DETERMINE THE APPROPRIATE COURSE OF ACTION.

EROSION AND SEDIMENT CONTROL

1. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE CBC AND THE SANTA CLARA COUNTY CODE.
2. DURING THE RAINY SEASON, OCT. 15 TO APRIL 15, EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE.
3. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
4. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED ON THE SITE. IF QUESTIONS REGARDING THE COUNTY SPECIFIED BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL CALL HOGAN LAND SERVICES.
5. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE AND AFTER STORM EVENTS.
6. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MAY RESULT IN RESPONSE TO FIELD CONDITIONS.
7. ENTRANCES TO SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY R.O.W. SHALL BE DISPOSED OF AS THEY OCCUR.
8. EXPOSED SLOPES SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES. FIBER ROLL SILT BARRIERS AND SILT FENCES SHALL BE KEYED INTO THE SOIL AND INSTALLED ON CONTOUR.
9. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICABLE AFTER GRADING. GROUND SHOULD BE COMPLETELY COVERED.
10. STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS.
11. SOIL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE RUNOFF.
12. SOLID WASTE AND CONSTRUCTION MATERIALS SHALL BE PLACED IN DESIGNATED COLLECTION AREAS AND DISPOSED OF AT APPROVED DISPOSAL SITES.







NOTE: THIS EXHIBIT REPRESENTS A TOPOGRAPHIC SURVEY BY JMH WEISS INC. PERFORMED ON 05/19/2014. THIS EXHIBIT DOES NOT REPRESENT A BOUNDARY DETERMINATION. BOUNDARY SHOWN IS PER ASSESSOR RECORDS AND RECORD DATA ONLY AND HAS NOT BEEN SURVEYED OR CONFIRMED.

STAGES TO BE INSPECTED

CONTRACTOR IS REQUIRED TO HAVE ENGINEER AND/OR ENVIRONMENTAL HEALTH INSPECT THE CONSTRUCTION AT THE FOLLOWING STAGES. FAILURE TO REQUEST THESE INSPECTIONS WILL RESULT IN THE CONTRACTOR HAVING TO UN-EARTH AND REDO THE WORK. THE ENGINEER MUST ISSUE AN INSPECTION REPORT TO THE COUNTY PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE COUNTY. THE CONTRACTOR SHALL GIVE 48-HOUR ADVANCE NOTICE TO THE ENGINEER FOR ANY OF THESE INSPECTIONS:

INSPECTIONS BY ENGINEER ONLY

1. INSPECTION OF IMPORTED MATERIALS
2. CHECKING OF LAYOUT; LINE AND GRADE, STAKES.

INSPECTIONS BY HOGAN LAND SERVICES AND WELL & SEPTIC STAFF
3. SEPTIC & SUMP TANK WATER TIGHTNESS TEST.
4. INSPECTION OF HYDRAULIC (SQUIRT) TEST.
5. INSPECTION OF PRESSURE LINES PRIOR TO COVER.
6. FINAL INSPECTION, MONITORING WELL LOCATIONS.

NOTE: ATU SERVICE PROVIDER SHALL BE ON SITE AT STARTUP INSPECTION.
NOTE: ELECTRICAL PERMIT SHALL BE APPROVED PRIOR TO SYSTEM FINAL (UNDER SEPARATE BUILDING PERMIT).

7. THE ENGINEER, INSTALLER AND SERVICE PROVIDER WILL BE PRESENT WITH WELL AND SEPTIC STAFF AT THE START UP INSPECTION.

LIST OF SITE INVESTIGATIONS

SITE EVALUATION	02/14/18
SHALLOW PERC TEST	02/16/18

SHEET INDEX

ALTERNATIVE SYSTEM SPECIFICATIONS

THE INTENT OF THIS PLAN IS TO SERVE A PROPOSED 4 BEDROOM RESIDENCE UTILIZING ALTERNATIVE TREATMENT WITH A SHALLOW DRIP DISPERSAL FIELD.

A STANDARD OWTS WAS DETERMINED TO BE INFEASIBLE DUE TO THE EXTREMELY LIMITED AREA AVAILABLE FOR DISPERSAL. THE SITE HAS BEEN SUBJECT TO A LARGE AMOUNT OF DISTURBANCE AND HAS NATURAL FEATURES THAT RESTRICT DEVELOPMENT ON THE SITE.

WATER TO THE SITE WILL BE SUPPLIED BY A NEW WELL, INSTALLED UNDER SEPARATE PERMIT. SEE SHEET C4 FOR APPROXIMATE PROPOSED LOCATION.

PRIMARY SDS AREA - 4 BEDROOMS:

DESIGN FLOW = 525 GALLONS/DAY

TREATMENT UNIT - MICROSEPTEC ES-6, 600 GPD TREATMENT CAPACITY

DOSING PUMP - STA-RITE MODEL 2ODOM05121

DISPERSAL FIELD - GEOFLOW SHALLOW DRIP IRRIGATION

APPLICATION RATE: 1.0 GAL/S.F./DAY [PERCOLATION TESTING]

PRIMARY FIELD SIZING: 525 GAL/1.0 = 525 S.F. OF LEACHING AREA REQUIRED

DOUBLE FIELD REQUIREMENT: 1,050 S.F. TO BE INSTALLED

INSTALL DRIP LINES 12" O.C. WITH 1' EMITTER SPACING @ 12" DEPTH. SEE DETAILS AND CALCULATIONS FOR ADDITIONAL DETAIL.

TIMED DOSING ON A 2-HOUR INTERVAL = 12 DOSES PER DAY

REVISION BLOCK

1	PLAN CHECK COMMENTS	4/1/24
2	PLAN CHECK COMMENTS	4/17/24
3	PLAN CHECK COMMENTS	5/15/24

REGISTERED PROFESSIONAL ENGINEER * MANDY T. FLEISSNER * GEOTECHNICAL * No. 82889 * CIVIL * STATE OF CALIFORNIA

THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF JON GODSTON IN JANUARY, 2024

GEOFF FLEISSNER R.C.E. 82889

DRN:	CHK:	PM:	DATE:	JOB #:
RS	GTF	GTF	1/18/24	6406

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FAX (831) 425-0224
www.hoganls.com
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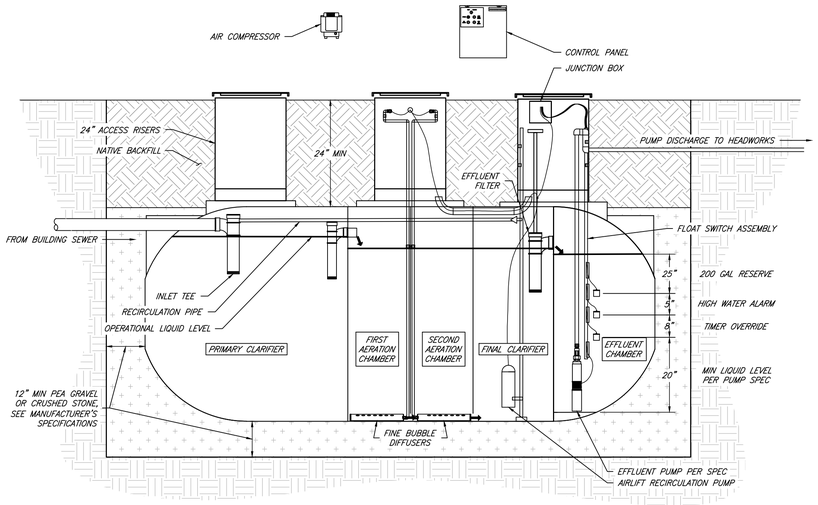
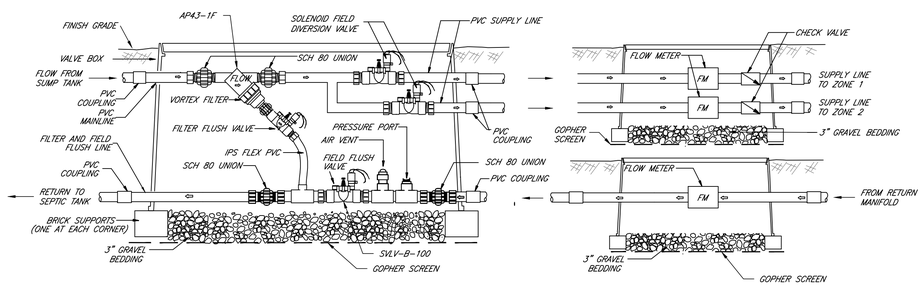
LANDS OF GODSTON
DRIP SYSTEM NOTES
APN: 558-40-033
20411 HARVEY WAY
LOS GATOS, CALIFORNIA



1 MICROSEPTEC ES6 DETAIL

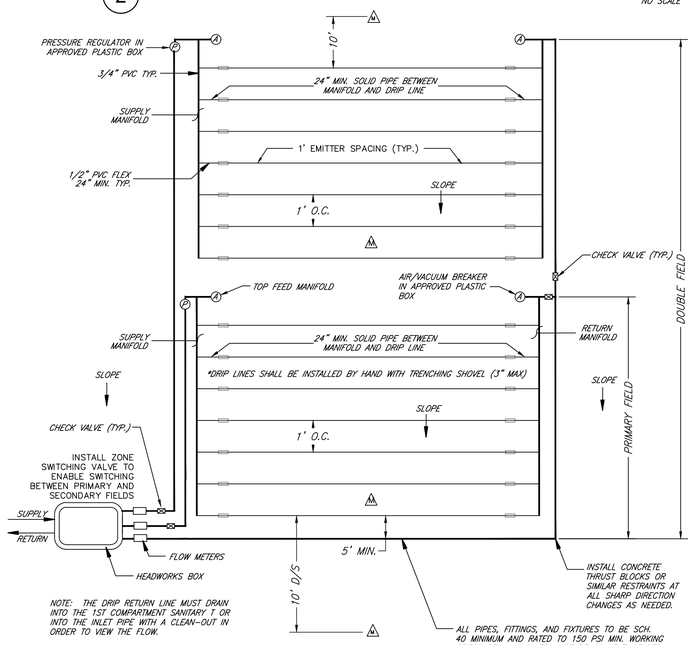
SEE MICROSEPTEC INSTALLATION NOTES AND ENVIROSERVER SERIES SPECIFICATION MANUAL FOR FURTHER DETAILS

NO SCALE



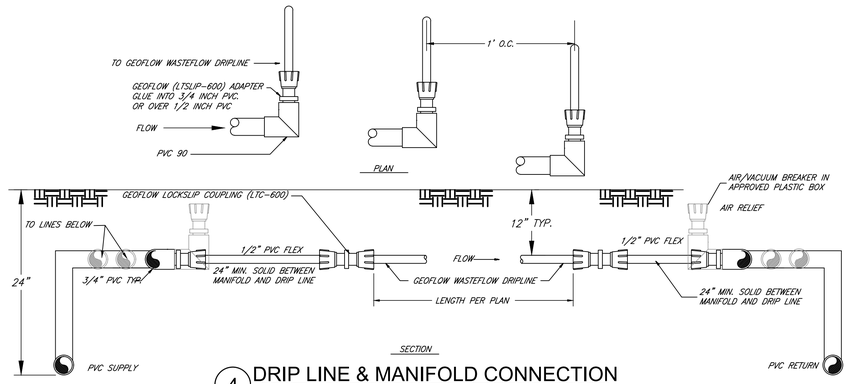
2 DUAL FIELD HEADWORKS BOX & FLOW METERS DETAIL

NO SCALE



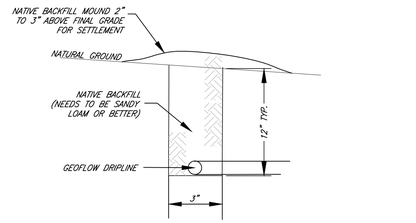
3 FIELD LAYOUT SCHEMATIC

NO SCALE



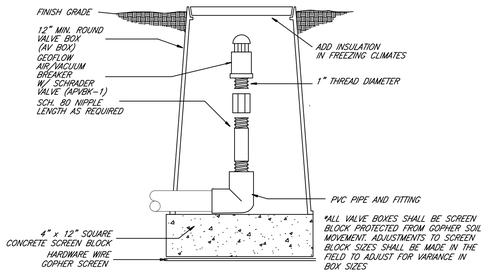
4 DRIP LINE & MANIFOLD CONNECTION

NO SCALE



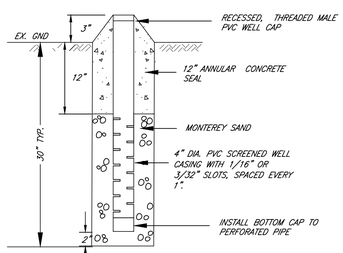
5 DRIP LINE TRENCH DETAIL

NO SCALE



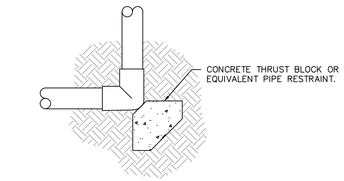
6 1" AIR BREAKER VALVE

NO SCALE



7 MONITORING WELL DETAIL

NO SCALE



8 THRUST BLOCK DETAIL

NO SCALE

REVISION BLOCK

1	PLAN CHECK COMMENTS	4/1/24
2	PLAN CHECK COMMENTS	4/17/24
3	PLAN CHECK COMMENTS	5/15/24

REGISTERED PROFESSIONAL ENGINEER * GEOFFREY T. FLEISSNER * NO. 82889 * CIVIL * STATE OF CALIFORNIA

THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF JON GODSTON IN JANUARY, 2024

GEOFF FLEISSNER R.C.E. 82889

DRN:	RS	CHK:	GTF	
PM:	GTF	DATE:	1/18/24	
JOB #:	6406			

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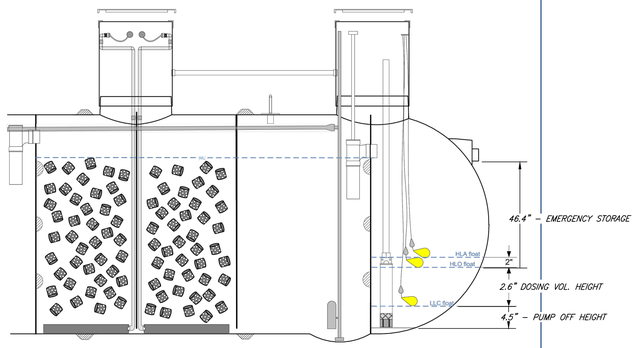
LANDS OF GODSTON
DRIP SYSTEM DETAILS

APN: 558-40-033

20411 HARVEY WAY
LOS GATOS, CALIFORNIA

MicroSepTec

Pump Chamber Volume



	Volume above LLC float
ES6	843
ES12	1023
ES25	2014

	Description	Function
HLA float	Alarm	creates alarm
HLO float	Override	turns on pump, regardless of timer
LLC float	Timer Enable	turns on timer

VOLUMETRIC/TANK ELEVATION CALCULATIONS:

TANK VOLUME ESTIMATED AT APPROX. 17 GAL./IN. FOR THE PURPOSES OF FLOAT ELEVATION SETTING

PUMP OFF ELEVATION:

BASED ON SANTA CLARA COUNTY OWTS DESIGN MANUAL

4" MINIMUM CLEARANCE – 4.5" PER MANUFACTURERS SPECIFICATION

4.5" X 17 GAL./IN. = 76.5 GAL.

DOSING VOLUME

DAILY LOAD = 525 GPD
TIMED DOSAGES = 12
VOLUME PER DOSE = 525/12 = ~44 GAL.
ELEVATION IN TANK = 44 GAL./17 GAL./IN. = 2.6 IN.

EMERGENCY STORAGE VOLUME

BASED ON SANTA CLARA COUNTY OWTS DESIGN MANUAL

1.5 DAYS OF DAILY FLOW
1.5 X 525 GAL. = ~788 GAL.
ELEVATION IN TANK = 788 GAL./17 GAL./IN. = 46.4 IN.

TOTALS:

TOTAL VOLUME USED:

PUMP OFF VOLUME =	*76.5 GAL.*
DOSING VOLUME =	*44 GAL.*
EMERGENCY STORAGE VOLUME =	*788 GAL.*
	908.5 GAL.

PUMP OFF VOLUME DISCOUNTED FROM TOTAL, SEE DIAGRAM ON THIS PAGE

TANK VOLUME REQUIRED = 908.5 GAL. – 76.5 GAL. = 832 GAL.

TANK VOLUME AVAILABLE ABOVE PUMP OFF SWITCH = 843 GAL.

TOTAL HEIGHT USED:

PUMP OFF HEIGHT =	*4.5"*
DOSING HEIGHT =	*2.6"*
EMERGENCY STORAGE HEIGHT =	*46.4"*
	53.5"

TANK HEIGHT AVAILABLE TO BOTTOM OF OUTFLOW = 56"

SOIL PROFILE SUMMARY

PROFILE 1 (TP1)

0' – 2.5'	*REDDISH SAND AND SANDSTONE COBBLES. POSSIBLE DRAINROCK. LOCATED ORIGINAL LEACH FIELD. TERMINATED DIG.*

PROFILE 2 (TP2)

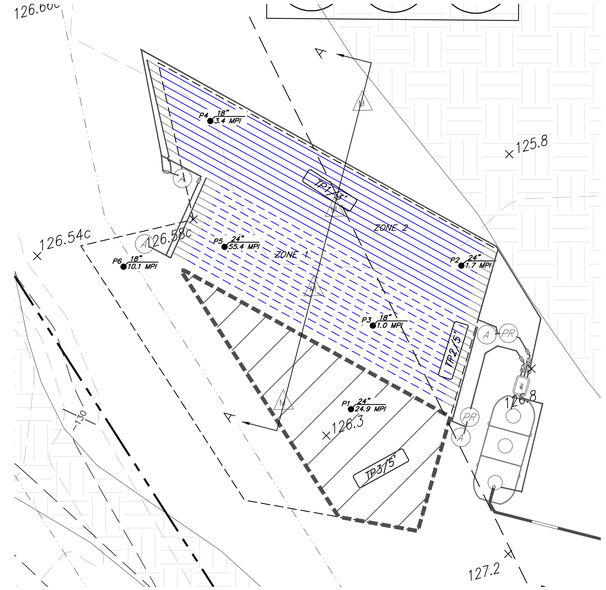
0' – 2.5'	*REDDISH SAND, LIGHT CLAYS, SMALL STONES. LOW MOISTURE.*
2.5' – 3.5'	*SANDY CLAY LOAM OVER LARGE SANDSTONE BOULDERS, 2–3" DIMENSIONS.*
3.5' – 5'	*LARGE BOULDERS AND SILTY SAND FINES.*

PROFILE 3 (TP3)

0' – 8"	*DARK LOAMY TOPSOIL. SILTY CLAY LOAM.*
8" – 3'	*SILTY CLAY LOAM. SOME ROOTS.*
3' – 4'	*CONSOLIDATED, STIFF CLAY.*
4' – 5'	*ROCK COBBLES AND SAND FINES.*

LEGEND

- *PROPERTY LINE*
- *RIGHT OF WAY*
- *SDS PRIMARY FIELD*
- *SDS EXPANSION AREA*
- *SDS SETBACK LINE*
- *ID DEPTH / MPI — PERC. HOLE W/DEPTH & MINUTES PER INCH*
- *ID/DPTH — SOILS PROFILE PIT W/DEPTH*
- *CO — CLEAN OUT*
- *MONITORING WELL*
- *HW — HEADWORKS BOX*
- *MICROSEPTEC ES–6 TREATMENT UNIT*

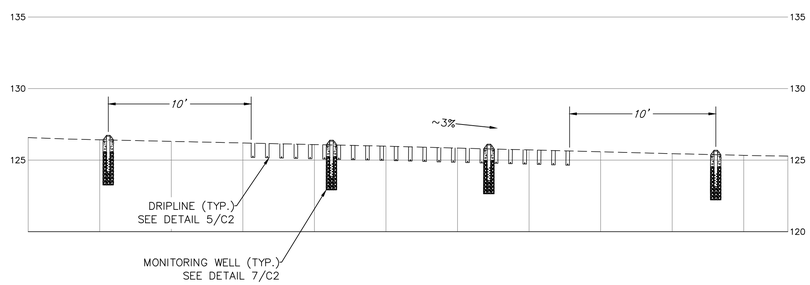


DRIPFIELD AND MONITORING WELL DETAIL

SCALE 1" = 10'

DRIP FIELD MANAGEMENT REQUIREMENTS

	Work	Frequency
Inspection	• Conduct routine visual observations of drip field, downslope area and surroundings for wet areas, pipe leaks or damage, soil erosion, drainage issues, abnormal vegetation, gophers or other problems. • Conduct routine physical inspections of system components, including valves, filters, and headworks box(es). • Perform special inspections of drip field at time of any landscaping work or other digging in drip field area. • Perform inspections of dosing pump(s) and appurtenances (per O&M manual and Performance Evaluation Guidelines, Part 5 of this Manual). • Record observations.	• Every 6 to 12 months.
Maintenance	• Manually remove and clean filter. • Clean and check operation of pressure reducing valves. • Clean flush valves and vacuum release valves.	• Clean filter every 6 months. • Other maintenance annually.
Water Monitoring & Sampling	• Measure and record water levels in dispersal field monitoring wells, as applicable, per permit requirements. • Obtain and analyze water samples from dispersal field monitoring wells, as applicable, per permit requirements.	• According to permit conditions, if applicable.
Reporting	• Report findings to DEH per permit requirements. • Standard report to include dates, monitoring well and other data collected, work performed, corrective actions taken, and performance summary. • Report public health/water quality emergency to DEH immediately.	• According to permit conditions, typically every 1 to 2 years, depending on system size, usage, history, location.



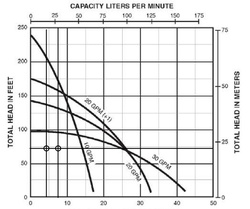
SECTION A - A: DRIPFIELD DETAIL

SCALE 1" = 5'

STA-RITE

4" multi-stage submersible pump

PUMP PERFORMANCE



PUMP PERFORMANCE *(Capacity in Gallons per Minute)*

Pump Model	Flow Rate (GPM)	PSI 0	10	20	30	40	50	60	70	80	90	100	110
10DOM05221	10			15.9	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
10DOM05121	10			15.9	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
20DOM05221	20			30.0	26.0	21.5	14.2	4.4					
20DOM05121	20			30.0	26.0	21.5	14.2	4.4					
30DOM05221	30		38.5	33.3	25.8	16							
30DOM05121	30		38.5	33.3	25.8	16							
20DOM05221+1	20 + 1			30	27.5	24	20	13.5	6				
20DOM05121+1	20 + 1			30	27.5	24	20	13.5	6				

PUMP PERFORMANCE *(Capacity in Liters per Minute)*

Pump Model	Flow Rate (LPM)	Bar 0	.69	1.38	2.07	2.76	3.45	4.13	4.82	5.51	6.20	6.89	7.58
10DOM05221	37.85		56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8		
10DOM05121	37.85		56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8		
20DOM05221	75.7		113.6	98.4	81.4	53.7	16.7						
20DOM05121	75.7		113.6	98.4	81.4	53.7	16.7						
30DOM05221	113.55	145.7	126.0	97.7	60.6								
30DOM05121	113.55	145.7	126.0	97.7	60.6								
20DOM05221+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				
20DOM05121+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				

Worksheet - Pump Sizing

Section 1 - Summary from Worksheet 1		
Flow required to dose field	4.64	gpm
Flow required to flush field	4.81	gpm
Flow required to dose & flush field	9.45	gpm
Filter	BioDisc Filter-150	
No. of Zones	2	zones
Zone valve	HT-4402	
Dripline	Wasteflow PC - 1/2gph	
Dripline longest lateral	40.38	ft.

Section 2	Ft of head	Pressure
A. Flush line - Losses through return line		
Select Pipe from dropdown menu	PVC schedule 40	
Select Flush Line Diameter	2" inch	
Length of return line	60 ft.	
Equivalent length of fittings	5 ft.	
Elevation change. (if downhill enter 0)	5 ft.	
Pressure loss in 100 ft of pipe	0.06 ft.	0.03 psi
Total pressure loss from end of dripline to return tar	*5.0 ft.*	2.18 psi
B. Dripline - Losses through Wasteflow dripline		
Length of longest dripline lateral	**40** ft.	
Minimum dosing pressure required at end of dripline	23.10 ft.	10.00 psi
Loss through dripline during flushing	0.32 ft.	0.14 psi
Total minimum required dripline pressure	*23.42 ft.*	10.14 *psi*
A+B. Minimum Pressure required at beginning of dripfield		
CALCULATED pressure required at beginning of dri	*28.46 ft.*	12.32 *psi*
SPECIFIED pressure at beginning of dripfield (from	**57.8 ft.**	25.00 *psi*
Great! SPECIFIED Pressure is greater than CALCULATED Pressure requirement. Go to next step		
C. Drip components - Losses through headworks		
Filter	11.6 ft.	5.00 psi
Zone valve pressure loss (not in diagram)	4.62 ft.	2.00 psi
Flow meter pressure loss (not in diagram)	ft.	- psi
Other pressure losses	ft.	- psi
Total loss through drip components	**16.17 ft.**	7.00 psi
D. Supply line - Minimum Pressure head required to get from pump tank to top of dripfield		
Select Pipe from dropdown menu	PVC schedule 40	
Select Supply line diameter	2" inch	
Length of supply line	20 ft.	
Equivalent length of fittings	5 ft.	
Height from pump to tank outlet	5 ft.	
Elevation change. (if downhill enter 0)	-5 ft.	
Pressure loss/gain in 100 ft. of pipe	0.21 ft.	0.09 psi
Total gain or loss from pump to field	***0.1 ft.***	0.02 psi
Total dynamic head	**74.0 ft.**	32.02 *psi*
Pump capacity * - Field Flush Flow	**9.4 gpm**	32.02 *psi*
- Field Dose Flow	**4.6 gpm**	
- Filter Flush Flow	**- gpm**	- *psi*
Pump Model Number	**20DOM05121**	
Voltz / Hp / phase	**115 VAC / 0.5 HP / 1 PH**	

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DRN:	CHK:	PM:	DATE:	JOB #:
RS	GTF	GTF	1/18/24	6406

LANDS OF GODSTON
DRIP SYSTEM DETAILS
APN: 558-40-033
20411 HARVEY WAY
LOS GATOS, CALIFORNIA

REVISION BLOCK

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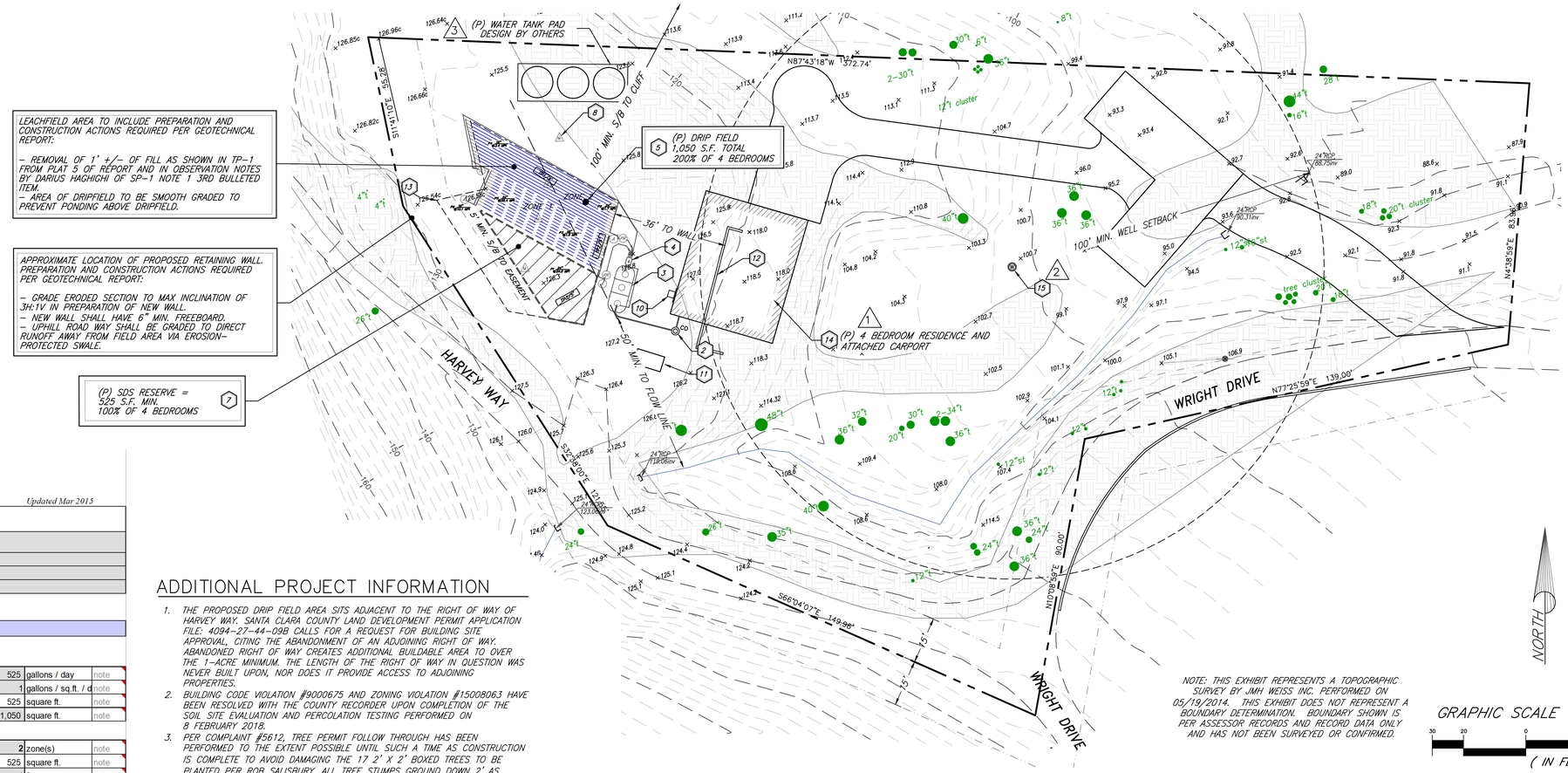

NOTE: THIS EXHIBIT REPRESENTS A TOPOGRAPHIC SURVEY BY JMH WEISS INC. PERFORMED ON 05/19/2014. THIS EXHIBIT DOES NOT REPRESENT A BOUNDARY DETERMINATION. BOUNDARY SHOWN IS PER ASSESSOR RECORDS AND RECORD DATA ONLY AND HAS NOT BEEN SURVEYED OR CONFIRMED.

GRAPHIC SCALE

30 20 0 40

(IN FEET)
1 inch = 20 ft.

ADDITIONAL PROJECT INFORMATION

1. THE PROPOSED DRIP FIELD AREA SITS ADJACENT TO THE RIGHT OF WAY OF HARVEY WAY. SANTA CLARA COUNTY LAND DEVELOPMENT PERMIT APPLICATION FILE: 4094–27–44–09B CALLS FOR A REQUEST FOR BUILDING SITE APPROVAL, CITING THE ABANDONMENT OF AN ADJOINING RIGHT OF WAY. ABANDONED RIGHT OF WAY CREATES ADDITIONAL BUILDABLE AREA TO OVER THE 1–ACRE MINIMUM. THE LENGTH OF THE RIGHT OF WAY IN QUESTION WAS NEVER BUILT UPON, NOR DOES IT PROVIDE ACCESS TO ADJOINING PROPERTIES.
2. BUILDING CODE VIOLATION #9000675 AND ZONING VIOLATION #15008063 HAVE BEEN RESOLVED WITH THE COUNTY RECORDER UPON COMPLETION OF THE SOIL SITE EVALUATION AND PERCOLATION TESTING PERFORMED ON 8 FEBRUARY 2018.
3. PER COMPLAINT #5612, TREE PERMIT FOLLOW THROUGH HAS BEEN PERFORMED TO THE EXTENT POSSIBLE UNTIL SUCH A TIME AS CONSTRUCTION IS COMPLETE TO AVOID DAMAGING THE 17 2" X 2' BOXED TREES TO BE PLANTED PER ROB SALISBURY. ALL TREE STUMPS GROUND DOWN 2' AS REQUIRED.
4. ALL TRASH, SCRAP, DEBRIS, AND JUNK HAVE BEEN PROPERLY REMOVED FROM THE PROPERTY, INCLUDING ALL WOOD, MILLING EQUIPMENT, TENTS, ETC.
5. THE PROPOSED RESIDENCE LOCATION AND FOOTPRINT ARE PRELIMINARY AND APPROXIMATE. PROPOSED SIZE NOT TO EXCEED 4 BEDROOMS AND ~2,650 SQFT.

ELECTRICAL NOTES

I. REQUIRED ELECTRICAL FEATURES

A. ALL MATERIALS, CONNECTIONS, AND SPECIFICATIONS SHALL MEET THE CALIFORNIA ELECTRICAL CODE.
1. IN ALL CASES IN WHICH A SUMP WITH A PUMP IS USED FOR A SEWAGE DISPOSAL SYSTEM, THE CONTRACTOR/OWNER SHALL OBTAIN AN ELECTRICAL PERMIT FROM PRMD OR CITY BUILDING DEPARTMENT HAVING JURISDICTION.
2. THE BUILDING OFFICIAL SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF ALL ELECTRICAL CODE.
3. DISCONNECTING MEANS (CONTROL PANEL OR DISCONNECTING SWITCH) SHALL BE LOCATED IN SIGHT FROM THE PUMP LOCATION PER THE COUNTY ADOPTED ELECTRICAL CODE.

B. THE ALARM SHALL BE EQUIPPED WITH:
1. A LOUD (87 DECIBELS AT A 10 FOOT MINIMUM HORIZONTAL DISTANCE FROM THE ALARM LOCATION) AUDIO ALARM OPERATED BY A FLOAT SWITCH(S) TO INDICATE AN "ALARM" CONDITION.
2. A MINIMUM SIZED 7/8 INCH DIAMETER RED LIGHT SHALL BE MOUNTED ON THE FACE OF THE PANEL, WHICH SHALL GLOW AS LONG AS THE "ALARM" CONDITION EXISTS.
3. A MOMENTARY "ALARM TEST/ALARM SILENCE" SWITCH TO TEST THE ALARM LIGHT AND HORN TO SIMULATE AN "ALARM" CONDITION AND TO SILENCE THE AUDIO ALARM HORN.

C. AN APPROVED LISTED MODEL OR TYPE OF FLOAT SWITCH SHALL BE USED TO ACTIVATE EACH PUMP. THE ALARM/CONTROL PANEL SHALL BE EQUIPPED WITH A MOTOR CONTACTOR FOR THE PUMP AND A PUMP HAND/OFF/AUTOMATIC SWITCH TO MANUALLY RUN THE PUMP BYPASSING THE CONTROL PANEL AUTOMATIC MODE AND TO TEST THE ALARM.

D. POWER SUPPLY TO EACH CIRCUIT BREAKER IN THE CONTROL PANEL SHALL BE FROM A SEPARATE DEDICATED CIRCUIT WITH CIRCUIT PROTECTION, OF EQUIVALENT OR HIGHER AMPERAGE RATING, AT THE POWER SUPPLY PANEL.
1. THE ALARM/CONTROL PANEL SHALL BE EQUIPPED INTERNALLY WITH SEPARATE CIRCUIT PROTECTION FOR THE CONTROL AND PUMP CIRCUITRY.
   a. MULTIPLEX (MORE THAN ONE PUMP) SYSTEMS SHALL HAVE SEPARATE POWER SUPPLY CIRCUITS.
   b. SEPARATE CIRCUITS ARE REQUIRED FOR CONTROLS AND EACH PUMP.
   c. JOINT CIRCUITS MAY BE ACCEPTABLE FOR EXISTING SUMP/PUMP SYSTEMS THAT WERE INSTALLED PRIOR TO THE THIS REQUIREMENT IF FUSED PURSUANT TO THE CURRENT ELECTRICAL CODE.
2. PUMP PROTECTION SHALL BE PROVIDED BY A THERMAL MAGNETIC CIRCUIT BREAKER FOR OVERLOAD PROTECTION.
   IS SINGLE–PHASE, THE MOTOR WINDINGS SHALL HAVE
   'RMAL OVERLOAD PROTECTION.
   IS THREE–PHASE, THE CIRCUIT PROTECTION IN THE
   TCL BOX SHALL BE EQUIPPED
   WITH AN ADJUSTABLE THERMAL OVERLOAD PROTECTION.
3. BELOW GRADE ELECTRICAL SPLICES SHALL BE PLACED IN A SONOMA COUNTY–APPROVED PULL BOX INSTALLATION OR A SONOMA COUNTY–APPROVED EXTERNAL SPLICE BOX WITH WATERPROOF SPLICE CONNECTORS. TRAFFIC– RATED PULL BOXES SHALL BE USED IN TRAFFIC AND ADJACENT AREAS. (SEE THE PULL BOX DIAGRAMS.)
4. ELECTRICAL NON–METALLIC SPLICE BOXES MAY BE PLACED WITHIN THE SUMP CHAMBER FOR EXISTING SUMP/PUMP SYSTEMS THAT WERE INSTALLED PRIOR TO THE THIS REQUIREMENT. THEY SHALL BE GAS–TIGHT BOXES WITH WATERPROOF SPLICE CONNECTORS.
5. THE PUMP POWER LEAD AND THE FLOAT SWITCH CONTROL WIRES MAY RUN IN A COMMON CONDUIT. HIGH VOLTAGE AND LOW VOLTAGE CONDUCTORS SHALL BE RUN IN SEPARATE CONDUITS.
   a. ALL CORDS GOING INTO THE SUMP SHALL BE INDIVIDUALLY SEALED WITH NON–METALLIC GAS TIGHT FITTINGS IN EITHER THE RISER, JUNCTION BOX OR ALARM/CONTROL PANEL AS APPROPRIATE.
   b. METALLIC GAS TIGHT FITTINGS ARE NOT ALLOWED.
   c. ALL EXPOSED PVC CONDUIT SHALL BE SCHEDULE 80.

E. THE CONTROL PANEL AND ITS CONTENTS SHALL BE UL LISTED.
1. THE CONTROL PANEL SHALL BE PLACED IN AN EASILY ACCESSIBLE LOCATION.
2. A NON–RESETTABLE DOSE COUNTER SHALL BE INSTALLED IN CONTROL BOXES UTILIZED FOR NON–STANDARD SYSTEMS.
3. IF A DOSE COUNTER IS NOT PROVIDED, A NON–RESETTABLE FLOW METER SHALL BE PROVIDED ON THE OUTGOING LINE TO THE DISPOSAL FIELD. ADDITIONALLY, SYSTEMS WITH FLUSH MODES SHALL BE EQUIPPED WITH A FLOW METER ON THE RETURN LINE. THE FLOW METER SHALL READ IN GALLONS PER MINUTE AND TOTAL GALLONS.
4. THE CONTROL PANEL SHALL BE EQUIPPED SO SETTINGS CAN BE ADJUSTED MANUALLY ON–SITE.
5. CONTROL BOXES THAT MUST BE OPENED TO VIEW THE DOSE COUNTER SHALL BE EQUIPPED WITH A CLEAR PLASTIC OR PYREX SAFETY SHIELD INSIDE THE CONTROL BOX.
6. THE CONTROL BOX SHALL BE LABELED, "CAUTION– ELECTRICAL HAZARD".
7. THE DOSE SETTINGS (TIME OR GALLONS), CALCULATED DOSE VOLUME AND FLOAT SETTINGS SHALL BE POSTED ON THE INSIDE OF THE PANEL.

F. ALL EXTERIOR MOUNTED ALARM AND CONTROLLER ENCLOSURE SHALL BE NEMA TYPE 4. IF THE ALARM/CONTROLLER IS MOUNTED MORE THAN 75 FEET FROM ANY RESIDENCE SERVED BY THE SYSTEM, A SEPARATE AUDIBLE/VISIBLE ALARM SHALL BE PROVIDED AT EACH STRUCTURE CONNECTED TO THE SEPTIC SYSTEM. THE ENCLOSURE FOR THE REMOTE AND AUDIO/VISUAL ALARM SHALL BE NEMA TYPE 1 IF MOUNTED INDOORS.

INSTALLATION NOTES

1. REMOVE ~12" OF FILL FROM DRIPFIELD AREA PRIOR TO INSTALLATION, PER GEOTECHNICAL RECOMMENDATIONS.
2. INSTALL NEW SEWER LATERAL FROM BUILDING TO TREATMENT UNIT. USE 4" ABS OR EQUIVALENT. ENSURE 2% MINIMUM SLOPE.
3. INSTALL MICROSEPTEC ES–6 TREATMENT UNIT. SEE MANUFACTURER SPECIFICATIONS FOR COMPLETE INSTALLATIONS INSTRUCTIONS. FINAL LOCATION SHALL BE DETERMINED AT TIME OF CONSTRUCTION. MAINTAIN 10' MIN. SETBACK TO PROPERTY LINE AND DRIVEWAY. ALTERNATE TANK LOCATION TO BE CONFIRMED WITH HLS PRIOR TO CONSTRUCTION. SEE DETAIL 1/C2.
4. INSTALL HEADWORKS WASTEFLOW BOX WITH FLUSH VALVE AND VORTEX FILTER. INSTALL CHECK VALVE ON SUPPLY LINE PRIOR TO DRIP FIELD PER DETAIL. SEE DETAIL AND MANUFACTURER SPECIFICATIONS. INSTALL ZONE SWITCHING VALVE MODEL V4402A. SEE DETAIL 2/C2.
5. INSTALL PRIMARY DRIP FIELDS A & B 525 S.F. MIN. EACH WITH TOP FEED MANIFOLD AND 25 PSI PRESSURE REGULATOR. INSTALL AIR RELIEF VALVE ON SUPPLY/RETURN LINE ENDS. SEE DETAIL 3/C2, 4/C2, 5/C2, AND 6/C2.
6. SMOOTH GRADE DRIPFIELD SURFACE AFTER INSTALLATION TO PREVENT SURFACE PONDING, PER GEOTECHNICAL RECOMMENDATIONS.
7. 100% RESERVE AREA (525 S.F. MIN.) TO REMAIN NATIVE AND UNDISTURBED.
8. INSTALL 4 MONITORING WELLS PRIOR TO DRIP LINE INSTALLATION. SEE DETAIL 7/C2.
9. INSTALL REBAR AT SUPPLY LINE ANGLE POINTS FOR FUTURE LOCATION DETERMINATION
10. INSTALL CONTROL PANEL WITH ALARM AND TELEMETRY CONNECTIONS, PER MANUFACTURERS SPECIFICATION.
11. DEMOLISH EXISTING SEPTIC TANK AND ABANDON LEACH LINE PER ENVIRONMENTAL HEALTH GUIDELINES.
12. EXISTING RETAINING WALL, PROPOSED TO BE INTEGRATED INTO RESIDENCE U.S.P. CONSTRUCTION. APPROXIMATE RETAINED HEIGHT = 9'
13. AVAILABLE LEACH FIELD AREA, AS DEFINED BY SITE EXPLORATION WITH SANTA CLARA COUNTY ENVIRONMENTAL HEALTH.
14. PROPOSED 4 BEDROOM SINGLE FAMILY RESIDENCE. LOCATION AND FOOTPRINT APPROXIMATE.
15. WELL INSTALLED UNDER PERMIT SR0864464.
16. INSTALL THRUST BLOCKS AT ALL PRESSURE LINE ANGLE POINTS. SEE DETAIL 8/C2.

LEGEND

- RECORD BOUNDARY LINE
- XX"t TREE (DIAMETER IN INCHES)
- FLOWLINE
- EASEMENT AND RIGHT OF WAYS
- EDGE OF GRAVEL ROAD
- FENCE
- APPROXIMATE LOCATIONS OF FILL PER GEOTECHNICAL REPORT
- SDS EXPANSION AREA
- ID/DPTH SOILS PROFILE PIT W/DEPTH
- SDS PRIMARY FIELD ZONE "A"
- SDS PRIMARY FIELD ZONE "B"
- SDS RESERVE AREA
- SANITARY SEWER W/SIZE
- 12" CMP CULVERT/STORMDRAIN W/SIZE & TYPE
- SDS SETBACK LINE
- ID DEPTH MPI PERC HOLE W/DEPTH & MINUTES PER INCH
- D/S DOWN SLOPE
- WELL
- CO CLEANOUT
- HOSE BIB
- PR PRESSURE REGULATOR
- A AIR RELIEF VALVE
- CHECK VALVE
- FM FLOW METER
- HW HEADWORKS BOX
- 8 INSTAL. KEY NOTE
- MONITORING WELL

REVISION BLOCK

1	PLAN CHECK COMMENTS	4/1/24
2	PLAN CHECK COMMENTS	4/17/24
3	PLAN CHECK COMMENTS	5/15/24

GEOFLOW
SUBSURFACE DRIP

Updated Mar 2015

FIELD FLOW

Job Description:	6406 GODSTON-HARVEY WY
Contact:	JON GODSTON
Prepared by:	HOGAN LAND SERVICES
Date:	23-Aug-18

Worksheet 1- Field Flow

Total field

Total Quantity of effluent to be disposed per day	525	gallons / day	note
Hydraulic loading rate	1	gallons / sq.ft. / d	note
Minimum Dispersal Field Area	525	square ft.	note
Total Dispersal Field Area	1,050	square ft.	note

Flow per zone

Number of Zones	2	zone(s)	note
Dispersal area per zone	525	square ft.	note
Choose line spacing between WASTEFLOW lines	1	ft.	note
Choose emitter spacing between WASTEFLOW em	1	ft.	note
Total linear ft.per zone (minimum required)	525	ft. per zone	note
Total number of emitters per zone	525	emitters per zone	note
Select Wasteflow dripline (16mm)	Wasteflow PC - 1/2gph	dripline	note
	Wasteflow Classic		
	Wasteflow PC - 1/2gph		
	Wasteflow PC - 1 gph		
Pressure at the beginning of the dripfield	25	psi	note
Feet of Head at the beginning of the dripfield	57.75	ft.	note
What is the flow rate per emitter in gph?	0.53	gph	note
Dose flow per zone	4.64	gpm	note

Note: A few States or Counties require additional flow for flushing. Please check your local regulations.
Flush velocity calculation below is for PC dripline. Classic dripline requires less flow to flush than PC.
Please refer to Geoflow's spreadsheet "Design Flow and Flush Curves" at www.geoflow.com or call 800-8

If required, choose flush velocity	0.5	ft/sec	note
How many lines of WASTEFLOW per zone?	13	lines	note
Fill in the *actual* length of longest dripline lateral	40	ft.	note
Flush flow required at the end of each dripline	0.37	gpm	note
Total Flow required to achieve flushing velocity	4.81	gpm	note
Total Flow per zone- worst case scenario	9.45	gpm	note

Select Filters and zone valves

Select Filter Type	BioDisc Filter		note
Recommended Filter (item no.)	BioDisc Filter-150	1.5in < 30 gpm	note
Select Zone Valve Type	Hydraulic	-	note
Recommended Zone Valve (item no.)	HT-4402	alve 1.25x1.25", 2	note

Note minimum pressure of 25 psi required for Hydraulic valves.Check pressure in Cell D28 abo

Dosing

Number of doses per day / zone:	12	doses	note
Timer ON. Pump run time per dose/zone:	4.43	mins:secs	4.72
Timer OFF. Pump off time between doses	1:55	hrs:mins	1.92
Per Zone - Pump run time per day/zone:	0:56	hrs:mins	0.94
All Zones - Number of doses per day / all zones	24	doses / day	
Allow time for field to pressurize	0:00:30	hrs:mins:secs	0.500
Filter flush timer	0:00:20	hrs:mins:secs	0.333
Drain timer	0:05:00	hrs:mins:secs	5.000
Field flush timer	0:01:00	hrs:mins:secs	1.000
Field flush counter	3	cycles	note
Time required to complete all functions per day	**4:37**	hrs:mins	4.6201
Dose volume per zone	22	gallons per dose	note

GEOFLOW DRIP CALCULATIONS

HOGAN LAND SERVICES
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PROFESSIONAL ENGINEER * REGISTERED GEOLOGIST * CIVIL ENGINEER * G. T. FLEISSNER * NO. 82889 * STATE OF CALIFORNIA

THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF JON GODSTON IN JANUARY, 2024

GEOFF FLEISSNER R.C.E. 82889

DRN:	RS	CHK:	GTF	PM:	GTF
DATE:	1/19/24	JOB #:	6406		

LANDS OF GODSTON
DRIP SYSTEM PLAN

APN: 558-40-033

20411 HARVEY WAY
LOS GATOS, CALIFORNIA