Montoya Residen 4688 Pacheco Pa Gilroy, CA 95020	ce ss Hwy
SCOPE OF WORK	INDEX
 NEW SINGLE FAMILY DWELLING 6' FRONT WIRE-FENCE TO BE APPROVED. 	A-0PROJECT DATA P-1PROPOSED SITE PLAN P-2PARTIAL SITE PLAN
PROJECT DATA1) APN: 898-26-0102) CONSTRUCTION TYPE: V-B3) EXISTING ZONING: AGRICULTUREA-EXISTING LOT	OWTSSEPTIC TANK, EFFLUENT TRANSPORT PIPE DETAIL, DIVERSION VALVE, SOIL PROFILE, TIPYCAL LEACH LINE & PERCOLATION TEST. C-1PRECISE GRADING PLAN (TITLE SHEET) C-2PRECISE GRADING PLAN (TITLE SHEET) C-3PRECISE GRADING PLAN DETAILS C-4CUT AND DETAILS C-4CUT AND FILL PLAN C-5EROSION CONTROL PLAN
APPLICABLE CODES	VICINITY MAP
CURRENT SANTA CLARA COUNTY ZONING ORDINANCE	dos Highway



VICINITY MAP

4688 Pacheco Pass Highway

PROVIDE FIRE SPRINKLERS: DEFERRED SUBMITTAL

acheco Pass Hy

DEFENSIBLE SPACE (maintained at all times)

Providing a 30-100 ft. zone around all structures where flammable vegetation is reduced keeps direct flames and heat away from the side of the building. This means modifying the fuel to reduce the wildfire threat and provide an opportunity for firefighters to effectively defend a structure from an oncoming wildfire.

Providing defensible space does not mean scraping away all vegetation from the landscape. Landscaping can be designed to create an attractive well-vegetated property that also provides effective defensible space.

Removal of dead vegetation, reduction of "ladder fuels" by thinning brush and (limbing-up trees, and replacement of highly flammable plants, such as (Eucalyptus or Scotch Broom with fire-resistive plants are all part of a good (vegetation planning and management program. This applies even to existing (structures.

Wildland Urban Interface (WUI) Codes and Standards

Chapter 7A of theCalifornia Building Code (CBC) and Chapter R337 of the California Residential Code (CRC) contain standards associated with the construction of buildings in wildfire prone areas.

New or replacement single family dwellings

FIRE SPRINKLERS- An automatic sprinkler system approved by your local fire agency must be installed in all new and replacement single family dwellings. REQUIRED ACCESS- A fire access road is required when any portion of the building is more than 150 feet from the public road, as measured along an approved access route from the public road to the building. WATER STORAGE- An approved water supply capable of supplying the required water flow for fire protection must be provided. This may be accomplished by various means such as water tanks, reservoirs, or hydrants, but must be approved by the Fire Agency in any case. Contact your local Fire Agency for details. When a portion of the building is more than 150 feet from a water supply on a public street, an approved hydrant is required on the site. The following Uniform Building Code requirements apply to all new or replacement single family dwellings, and are verified by the building Inspector.

SMOKE DETECTORS- Smoke detectors are required in each sleeping room and in hallways. A smoke detector is required at each story, including basements, and may be required at certain other locations as specified in the Building Code. Smoke detectors are required to be supplied with power by the permanent wiring and to have a battery backup. Smoke detectors must be interconnected unless tests demonstrate that the alarm from any detector is audible in all sleeping areas.

HOUSE NUMBERS- House numbers a minimum of 4 inches in height with a contrasting background showing the address must be placed in such a position as to be plainly visible from the street adjoining the property. SPARK ARRESTORS- Spark arrestors are required on all chimneys. Spark

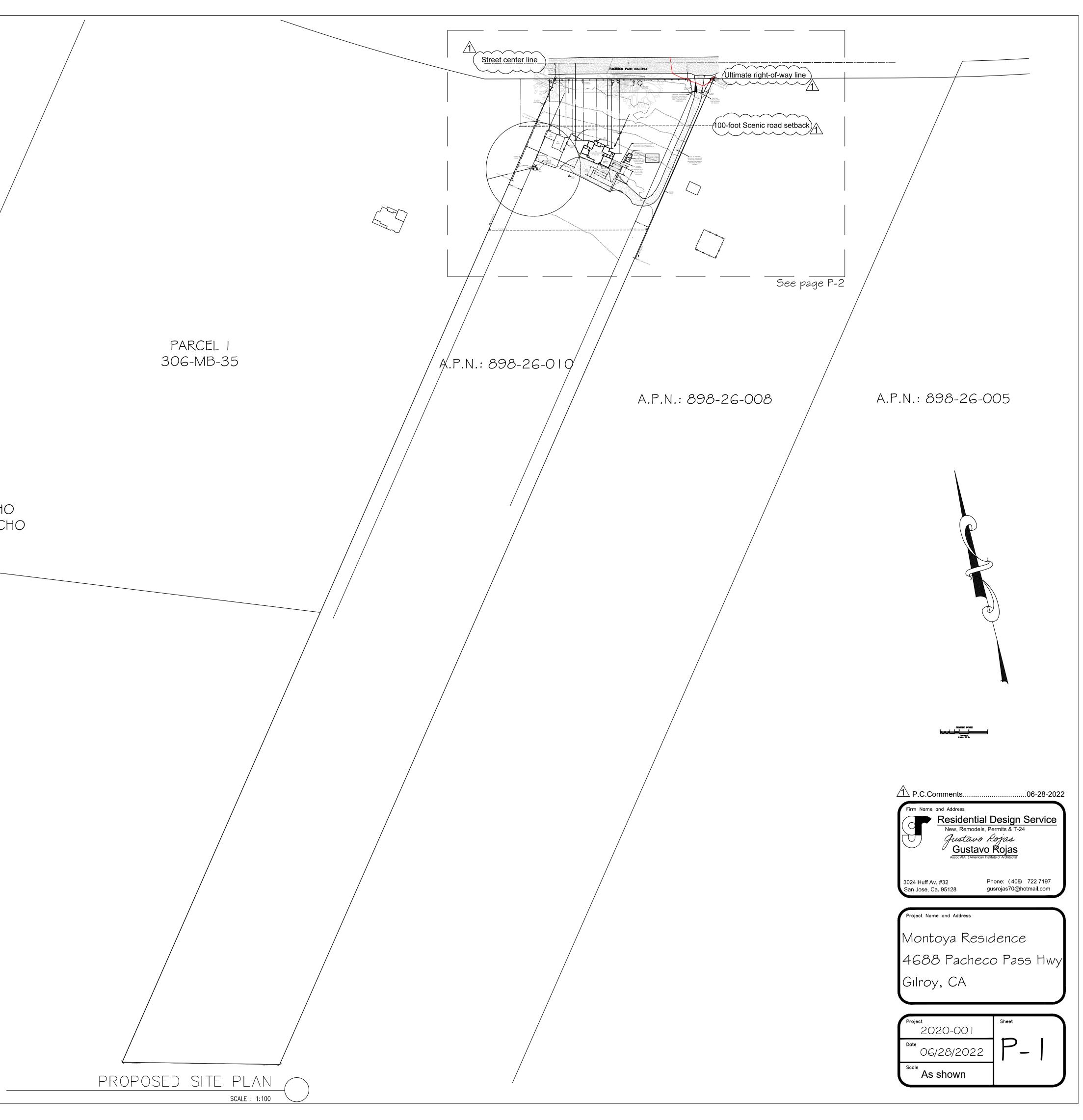
Arrestors must have openings 1/2 inch in diameter. ROOFS- Roofs must have a minimum Class B Fire Resistive rating, and Class A is required in some areas of the County.

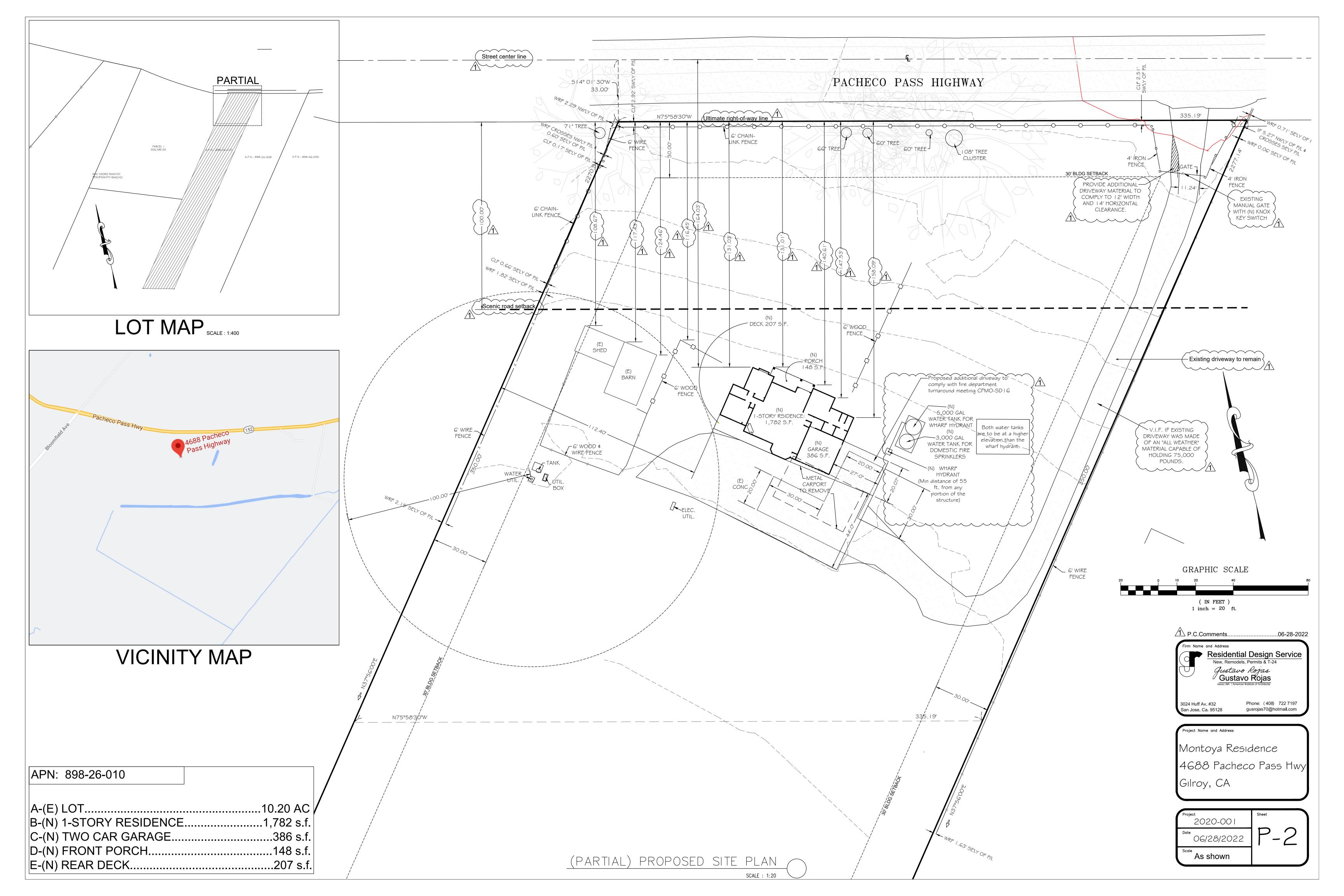
is required in some areas of the County.

APN: 898-26-010

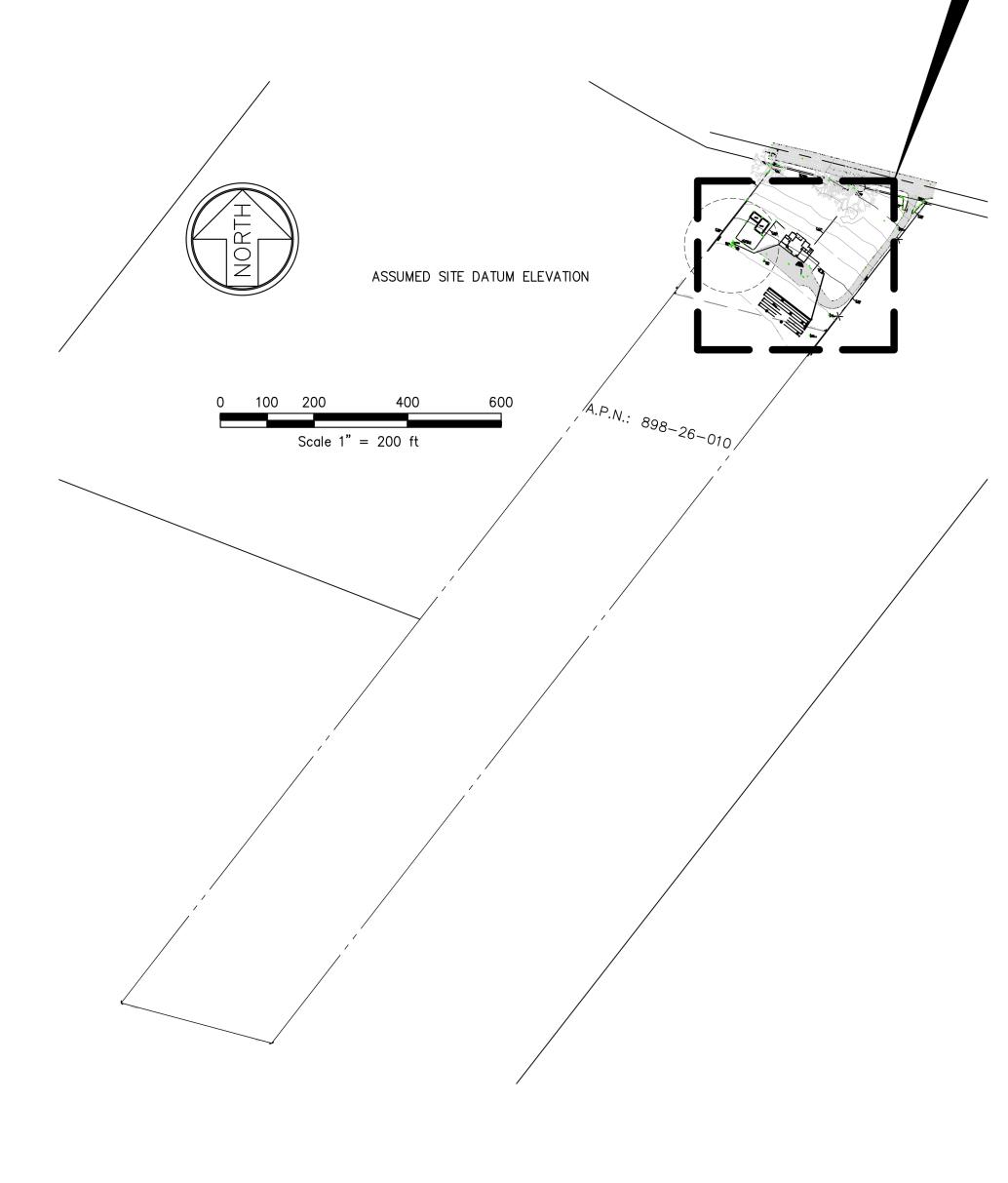
A-(E) LOT	10.20 AC
B-(N) 1-STORY RESIDENCE	1,782 s.f.
C-(N) TWO CAR GARAGE	
D-(N) FRONT PORCH	148 s.f.
E-(N) REAR DECK	

SAN YSIDRO RANCHO TESUESQUITO RANCHO

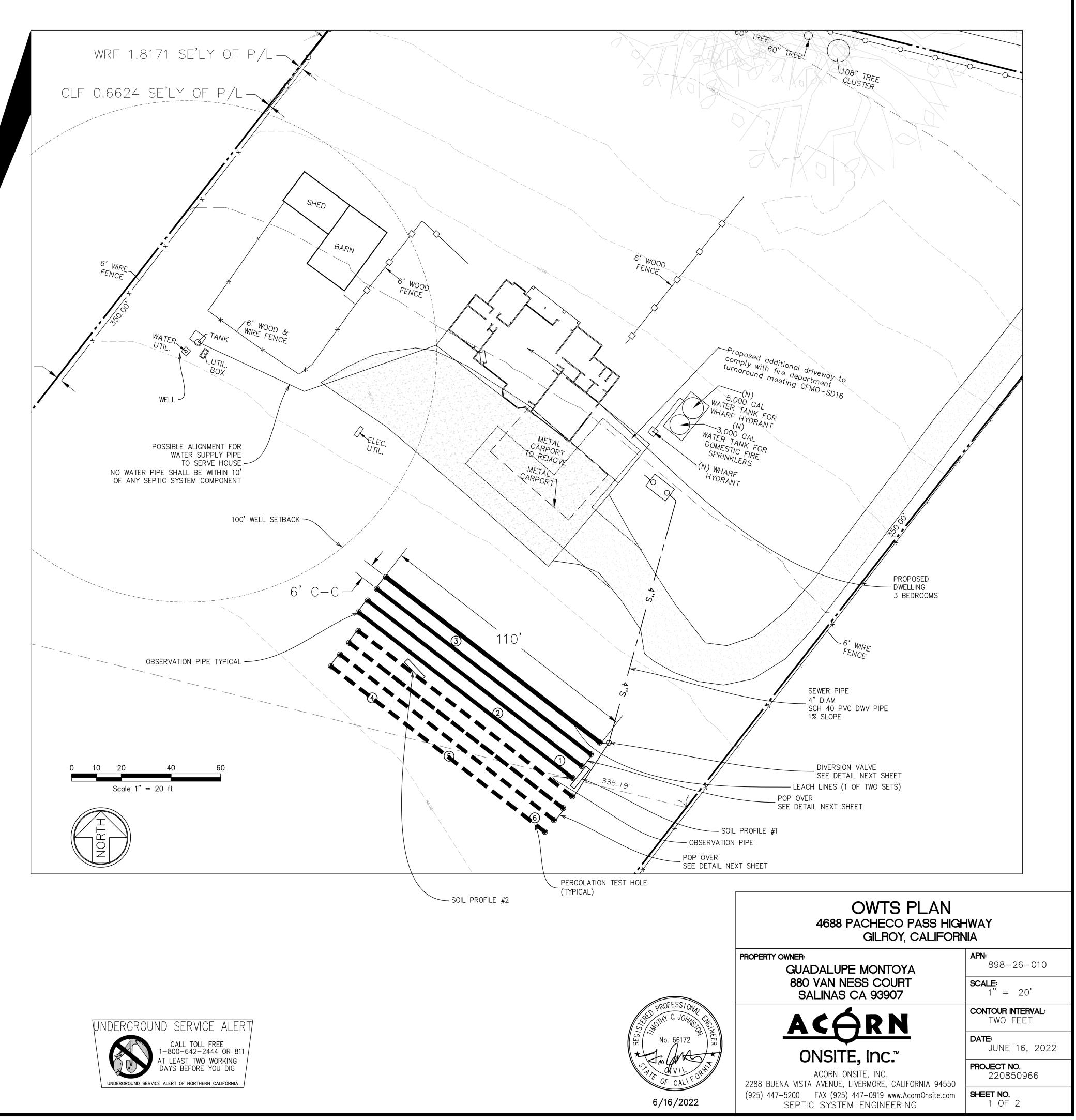




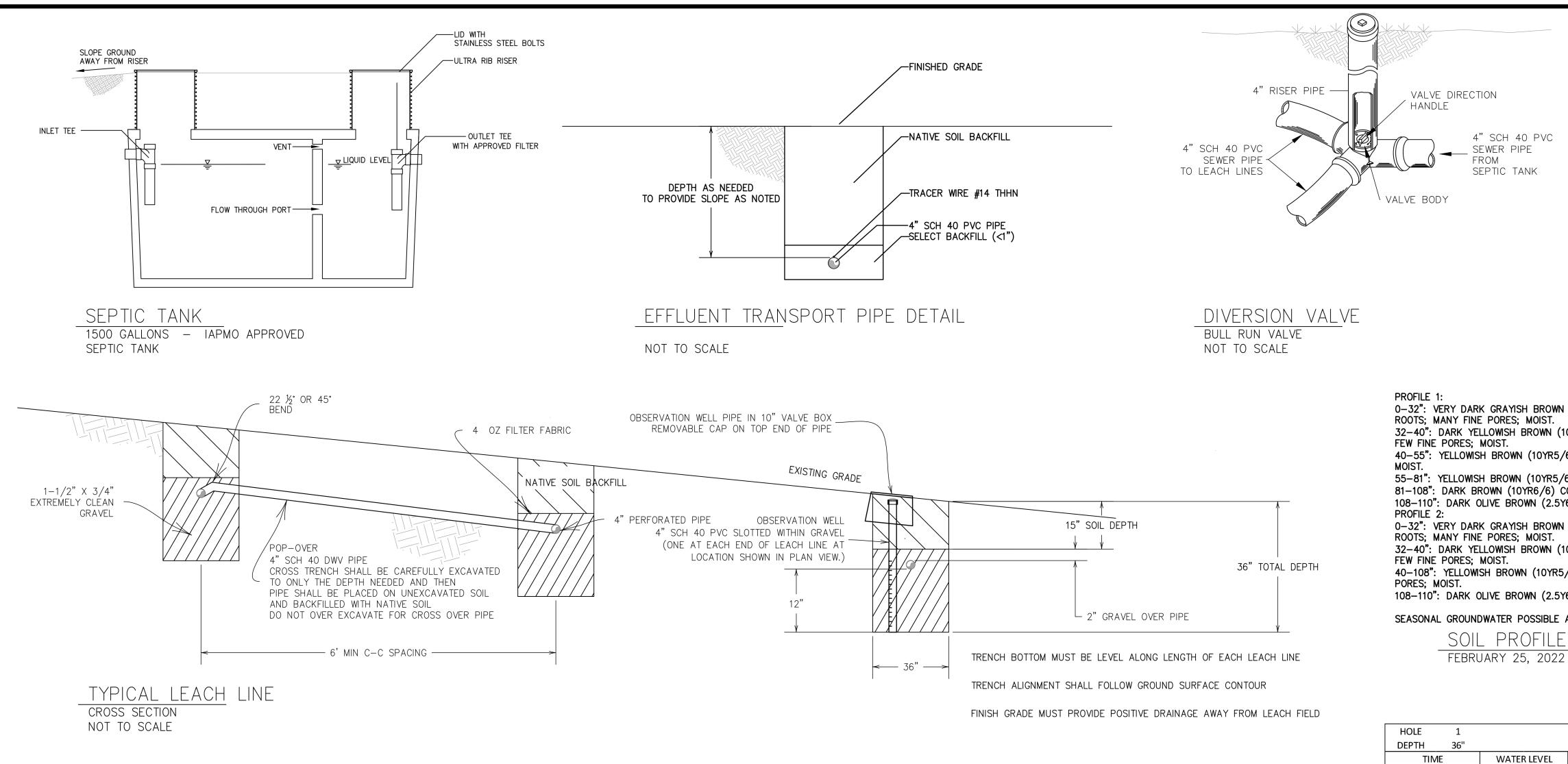
4688 PACHECO PASS HIGHWAY SANTA CLARA COUNTY ONSITE WASTEWATER TREATMENT SYSTEM INSTALLATION PLAN TO SERVE NEW DWELLING



THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN FROM SITE MAP PROVIDED BY PROPERTY OWNER. THIS PLAN ONLY ADDRESSES THE NEW OWTS COMPONENTS AS SHOWN, ALL OTHER SITE INFORMATION IS FROM SITE PLAN PROVIDED BY PROPERTY OWNER.







SITE USE/BACKGROUND:

THIS DOCUMENT DESCRIBES A NEW SEPTIC SYSTEM TO SERVE A NEW DWELLING.

WASTEWATER TREATMENT TRAIN: DOMESTIC RAW SEWAGE -> SEPTIC TANK -> GRAVITY LEACH LINES

GENERAL INSTALLATION NOTES:

- 1. OWTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ENGINEER-OF-RECORDS'S DESIGN INTENT AND REGULATORY AGENCY REQUIREMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD AT THE EARLIEST OPPORTUNITY.
- OWTS TO BE INSTALLED BY A LICENSED CONTRACTOR WITH AT LEAST THREE YEARS EXPERIENCE INSTALLING SIMILAR OWTS. 3. INSTALLATION OF OWTS SHALL NOT BEGIN PRIOR TO APPROVAL OF THIS PLAN AND ISSUANCE OF AN INSTALLATION PERMIT FROM THE SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ...
- 4. INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITIES INCLUDING INSTALLER MUST NOTIFY UNDERGROUND SERVICE ALERT (CALL 811) AT LEAST TWO WORKING DAYS. NOT INCLUDING THE DATE OF
- NOTIFICATION. PRIOR TO EXCAVATION. 5. INSTALLATION OBSERVATION BY ENGINEER-OF-RECORD REQUIRED. JOINT OBSERVATION BY THE ENGINEER-OF-RECORD, INSTALLER, AND DEH MAY BE REQUIRED. INSTALLER SHALL COORDINATE OBSERVATION VISITS WITH EACH APPROPRIATE PARTY:
- 5.1. PRECONSTRUCTION WHERE THE CONSTRUCTION STAKING OR MARKING OF THE VARIOUS SYSTEM COMPONENTS IS PROVIDED AND CONSTRUCTION PROCEDURES DISCUSSED. (ALL COMPONENT LOCATIONS MARKED IN FIELD, DISPERSAL FIELD LAYOUT TO BE DONE BY ENGINEER-OF-RECORD OR LAND SURVEYOR, INSTALLER SHALL PROVIDE A CONSTRUCTION SCHEDULE AND GENERAL PROCEDURE FOR INSTALLATION)
- 5.2. WATER TIGHTNESS OF SEPTIC TANK.
- EXCAVATION OF DISPERSAL TRENCHES AND PIPING (INCLUDING OPEN TRENCH OBSERVATION AND GRAVEL SAMPLE) 5.3.
- DRAIN ROCK MATERIAL CLEANLINESS AND PLACEMENT IN TRENCHES. 5.4.
- 5.5. PIPING INSTALLATION AND DISTRIBUTION SYSTEM 5.6. FINAL OBSERVATION TO VERIFY THAT ALL CONSTRUCTION ELEMENTS ARE IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS INSTALLER SHALL PROVIDE SUBMITTAL PACKAGE FOR REVIEW AND APPROVAL BY ENGINEER-OF-RECORD PRIOR COMMENCING INSTALLATION. INSTALLER SHALL PROMPTLY NOTIFY ENGINEER-OR-RECORD OF ANY DISCREPANCIES FOUND OR DISCOVERY OF DIFFERING SITE CONDITIONS FROM THOSE NOTED.
- DISPERSAL FIELD SHALL NOT BE INSTALLED IN OVERLY MOIST SOIL.
- 9. DISPERSAL FIELD EXCAVATIONS SHALL NOT BE LEFT UNCOVERED DURING ANY RAIN EVENT OR FOR AN EXTENDED PERIOD OF TIME.

GENERAL MAINTENANCE NOTES:

1. ANNUAL SERVICE SHALL INCLUDE: CYCLE DIVERSION VALVE AND MONITOR GENERAL SITE CONDITIONS IN DISPERSAL FIELD VICINITY TO VERIFY SERVICEABILITY OF SITE, AND RESPOND TO CONDITIONS FOUND. 2. INSPECTION OF SEPTIC TANK AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID HEIGHT INSIDE THE SEPTIC TANK.

GENERAL LONG TERM USE NOTES:

- 1. IN ACCEPTING THE DESIGN, THE OWNER REALIZES THAT EXPANSION OF THE DISPERSAL FIELD MAY BE REQUIRED IF LIQUID LOADING IS NOT DISPOSED OF BY THE PROPOSED DISPERSAL FIELD. EVERY EFFORT SHOULD BE MADE TO MINIMIZE LIQUID LOADING ON THE OWTS.
- 3. LOW FLOW PLUMING FIXTURES ARE REQUIRED.
- 4. OTHER THAN EARTHWORK OF THE OWTS, NO FILL SHALL BE PLACED OVER THE DISPERSAL FIELD AREA.
- 5. NO EXCAVATION OR CUTTING SOIL SHALL OCCUR DOWNSLOPE OF DISPERSAL FIELD, CONTACT ENGINEER-OF-RECORD FOR APPROPRIATE SETBACK REQUIREMENTS. 6. NO VEHICULAR TRAFFIC OR OTHER ACTIVITIES THAT WILL COMPACT SOIL ARE PERMITTED IN DISPERSAL FIELD AREA. 7. ROOF DOWNSPOUTS SHALL NOT DRAIN INTO OWTS OR OVER OWTS.

GENERAL CONDITIONS:

- 1. THIS DOCUMENT AND ASSOCIATED REPORTS ARE AN INSTRUMENT OF PROFESSIONAL SERVICE DESCRIBING THE SITE CONDITIONS AND DESIGN FOR THE INSTALLATION OF THE OWTS DESCRIBED. 2. ANY USE OF THIS DOCUMENT AND ASSOCIATED REPORTS BEYOND THE INSTALLATION OF THE OWTS DESCRIBED IS NOT THE INTENDED PURPOSED OF THE DOCUMENT, IS NOT AUTHORIZED BY ACORN ONSITE,
- INC., AND IS DONE AT THAT PERSON OR ENTITY'S OWN RISK. 3. THIS DOCUMENT IS NOT A BOUNDARY SURVEY, ANY PROPERTY DELINEATION OR REFERENCE TO A PROPERTY DELINEATION IS WORK OF OTHERS PROVIDED BY THE PROPERTY OWNER.





CALL TOLL FREE -800-642-2444 OR 81 AT LEAST TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

PERCOLATION TEST MAY 9, 2022

START | FINISH | START | FINISH

12:50 PM 1:20 PM 7 - 1/2 7 - 1/8 1:20 PM 1:50 PM 7 - 1/2 7 - 1/8

1:50 PM 2:20 PM 7 - 1/2 7 - 1/8

2:20 PM 2:50 PM 7 - 5/8 7 - 1/4

START | FINISH | START | FINISH

1:54 PM | 12

WATER LEVEL

11 - 3/8

11 - 1/2

11 - 1/2

11 - 1/2

3

TIME

36"

12:54 PM 1:24 PM 12

1:54 PM 2:04 PM 12

2:24 PM 2:54 PM 12

5

HOLE

DEPTH

1:24 PM

HOLE

DISPERSAL FIELD DESIGN NOTES: PROPOSED DWELLING: 3 BEDROOM ADU MAXIMUM DAILY FLOW: 450 GALLONS PER DAY APPLICATION RATE: 0.26 GPD/SQ FT 4 SQ FT PER LF OF TRENCH MINIMUM LENGTH OF TRENCH: 433 LF PER ZONE DESIGN LENGTH OF TRENCH: 2 ZONES EACH WITH 4 LINES @ 110' EACH, TOTAL LEACH LINE LENGTH OF 880 LF

DISPERSAL FIELD DESIGN NOTES BASED ON SOIL CONDITIONS OBSERVED

0-32": VERY DARK GRAYISH BROWN (10YR3/2) COLOR; LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; FRIABLE CONSISTENCE; MANY FINE 32-40": DARK YELLOWISH BROWN (10YR4/4) COLOR; CLAY; WEAK FINE SUBANGULAR BLOCKY STRUCTURE; VERY FIRM CONSISTENCE; FEW FINE ROOTS; 40-55": YELLOWISH BROWN (10YR5/6) COLOR; CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; FIRM CONSISTENCE; FEW FINE PORES; 55-81": YELLOWISH BROWN (10YR5/6) COLOR; CLAY; MODERATE MEDIUM ANGULAR BLOCKY STRUCTURE; FRIABLE CONSISTENCE; MOIST. 81-108": DARK BROWN (10YR6/6) COLOR; CLAY; MODERATE MEDIUM ANGULAR BLOCKY STRUCTURE; FIRM CONSISTENCE; FEW FINE PORES; MOIST. 108-110": DARK OLIVE BROWN (2.5Y6/6) COLOR WITH WHITE (2.5Y9/1) INTERSPERSED ALONG PORES; CLAY. REDOXIMORPHIC FEATURES. 0-32": VERY DARK GRAYISH BROWN (10YR3/2) COLOR; LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; FRIABLE CONSISTENCE; MANY FINE 32-40": DARK YELLOWISH BROWN (10YR4/4) COLOR; CLAY; WEAK FINE SUBANGULAR BLOCKY STRUCTURE; VERY FIRM CONSISTENCE; FEW FINE ROOTS;

40-108": YELLOWISH BROWN (10YR5/6) COLOR; CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; FIRM CONSISTENCE; FEW FINE

108-110": DARK OLIVE BROWN (2.5Y6/6) COLOR WITH WHITE (2.5Y9/1) INTERSPERSED ALONG PORES; CLAY. REDOXIMORPHIC FEATURES.

SEASONAL GROUNDWATER POSSIBLE AT 108" BELOW GROUND SURFACE BASED ON REDOXIMORPHIC FEATURES.

ΔMIN	ΔINCH	MPI
30	3/8	80
30	3/8	80
30	3/8	80
30	3/8	80

ΔMIN	ΔINCH	MPI
30	5/8	48
30	1/2	60
30	1/2	60
30	1/2	60

HOLE	5					
DEPTH	36"					
TIN	/IE	WATE	R LEVEL			
START	FINISH	START	FINISH	ΔMIN	ΔINCH	MPI
12:58 PM	1:28 PM	11 - 7/8	11 - 3/8	30	1/2	60
1:28 PM	1:58 PM	11 - 7/8	11 - 3/8	30	1/2	60
1:58 PM	2:28 PM	12	11 - 1/2	30	1/2	60
2:28 PM	2:58 PM	12	11 - 1/2	30	1/2	60

HOLE	2					
DEPTH	36"					
ווד	ME	WATEF	R LEVEL			
START	FINISH	START	FINISH	ΔMIN	ΔINCH	MPI
12:52 PM	1:22 PM	13	12 - 3/8	30	5/8	48
1:22 PM	1:52 PM	13	12 - 3/8	30	5/8	48
1:52 PM	2:22 PM	13	12 - 3/8	30	5/8	48
2:22 PM	2:52 PM	13	12 - 3/8	30	5/8	48

HOLE	4					
DEPTH	36"					
ווד	ME	WATEF	R LEVEL			
START	FINISH	START	FINISH	ΔMIN	ΔINCH	MPI
12:56 PM	1:26 PM	10 - 3/8	9 - 7/8	30	1/2	60
1:26 PM	1:56 PM	10 - 1/2	10	30	1/2	60
1:56 PM	2:26 PM	10 - 1/2	10	30	1/2	60
2:26 PM	2:56 PM	10 - 1/2	10 - 1/8	30	3/8	80

HOLE	6					
DEPTH	36"					
TII	ME	WATEF	R LEVEL			
START	FINISH	START	FINISH	ΔMIN	ΔINCH	MPI
1:00 PM	1:30 PM	10 - 1/8	9 - 5/8	30	1/2	60
1:30 PM	2:00 PM	10 - 1/8	9 - 1/2	30	5/8	48
2:00 PM	2:30 PM	10 - 1/8	9 - 1/2	30	5/8	48
2:30 PM	3:00 PM	10 - 1/8	9 - 1/2	30	5/8	48
1	2	3	4	5	6	

80

112

60

84

48

67

48

67

60

84

HOLE STABILIZED MPI 80 ADJUSTED STABILIZED MPI 112 AVERAGE ADJUSTED STABILIZED MPI



EROSION CONTROL

- 1. TEMPORARY EROSION CONTROL PLANS ARE REQUIRED FROM OCTOBER 15 TO MAY 15. EROSION CONTROL DEVICES SHALL BE AVAILABLE ON-SITE BETWEEN OCTOBER 15 AND MAY 15.
- 3. BETWEEN OCTOBER 15 AND MAY 15, EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHENEVER THE FIVE-DAY PROBABILITY OF RAIN EXCEEDS 30 PERCENT. DURING THE REMAINDER OF THE YEAR, THEY SHALL BE IN PLACE AT THE END OF THE
- WORKING DAY, WHENEVER THE DAILY RAINFALL PROBABILITY EXCEEDS 50 PERCENT. 4. TEMPORARY DESILTING BASINS, WHEN REQUIRED, SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT.

REQUIRED INSPECTIONS

- - 2. A PRE-PAVING MEETING SHALL BE SCHEDULED 48 HOURS PRIOR TO START OF THE SUB-GRADE PREPARATION FOR THE PAVING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, PAVING CONTRACTORS, DESIGN CIVIL ENGINEER, SOILS ENGINEER, CITY BUILDING INSPECTOR OR THEIR REPRESENTATIVES. REQUIRED FIELD INSPECTIONS WILL BE OUTLINED AT THE MEETING.

GRADING FILLS/CUTS

- 1. GRADED SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL
- 2. FILL SLOPES SHALL BE COMPACTED TO NO LESS THAN 90 PERCENT RELATIVE COMPACTION OUT TO THE FINISHED SURFACE. 3. ALL FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM TEST METHOD 1557, AND APPROVED BY THE SOILS ENGINEER. COMPACTION TESTS SHALL BE PERFORMED APPROXIMATELY EVERY TWO FEET IN VERTICAL HEIGHT AND OF SUFFICIENT QUANTITY TO ATTEST TO THE OVERALL COMPACTION EFFORT APPLIED TO THE FILL AREAS. 4. AREAS TO RECEIVE FILL SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS, SCARIFIED AND APPROVED BY THE SOILS ENGINEER PRIOR TO
- PLACING OF THE FILL.
- 5. FILLS SHALL BE KEYED OR BENCHED INTO COMPETENT MATERIAL. ALL EXISTING FILLS SHALL BE APPROVED BY THE SOILS ENGINEER OR REMOVED BEFORE ANY ADDITIONAL FILLS ARE ADDED. 7. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE SOILS
- ENGINEER. 8. THE ENGINEERING GEOLOGIST AND SOILS ENGINEER SHALL, AFTER CLEARING AND PRIOR TO THE PLACEMENT OF FILL IN CANYONS, INSPECT EACH CANYON FOR AREAS OF ADVERSE STABILITY AND DETERMINE THE PRESENCE OF, OR POSSIBILITY OF FUTURE ACCUMULATION OF, SUBSURFACE WATER OR SPRING FLOW. IF NEEDED, DRAINS WILL BE DESIGNED AND CONSTRUCTED PRIOR TO THE PLACEMENT OF FILL IN EACH RESPECTIVE CANYON.
- 9. THE EXACT LOCATION OF THE SUBDRAINS SHALL BE SURVEYED IN THE FIELD FOR LINE AND GRADE. 10. ALL TRENCH BACKFILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION, AND APPROVED BY THE SOILS ENGINEER. THE BUILDING DEPARTMENT MAY REQUIRE CORING OF CONCRETE FLAT WORK PLACED OVER UNTESTED BACKFILLS TO FACILITATE TESTING
- 11. THE STOCKPILING OF EXCESS MATERIAL SHALL BE APPROVED BY THE BUILDING DEPARTMENT. 12. LANDSCAPING OF ALL SLOPES AND PADS SHALL BE IN ACCORDANCE WITH CHAPTER 15 OF THE NBMC.
- 13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL RECOMMEND AND SUBMIT NECESSARY TREATMENT TO THE BUILDING DEPARTMENT FOR APPROVAL. 14. WHERE SUPPORT OR BUTTRESSING OF CUT AND NATURAL SLOPES IS DETERMINED TO BE NECESSARY BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER, THE SOILS ENGINEER WILL OBTAIN APPROVAL OF DESIGN, LOCATION AND CALCULATIONS FROM THE BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
- 15. THE ENGINEERING GEOLOGIST AND SOILS ENGINEER SHALL INSPECT AND TEST THE CONSTRUCTION OF ALL BUTTRESS FILLS AND ATTEST TO THE STABILITY OF THE SLOPE AND ADJACENT STRUCTURES UPON COMPLETION.
- 16. WHEN CUT PADS ARE BROUGHT TO NEAR GRADE THE ENGINEERING GEOLOGIST SHALL DETERMINE IF THE BEDROCK IS EXTENSIVELY FRACTURED OR FAULTED AND WILL READILY TRANSMIT WATER. IF CONSIDERED NECESSARY BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER, A COMPACTED FILL BLANKET WILL BE PLACED.
- 17. THE ENGINEERING GEOLOGIST SHALL PERFORM PERIODIC INSPECTIONS DURING GRADING. 18. NOTIFICATION OF NONCOMPLIANCE: IF, IN THE COURSE OF FULFILLING THEIR RESPONSIBILITY, THE CIVIL ENGINEER, THE SOILS ENGINEER, THE ENGINEERING GEOLOGIST OR THE TESTING AGENCY FINDS THAT THE WORK IS NOT BEING DONE IN CONFORMANCE WITH THE APPROVED GRADING PLANS. THE DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE PERSON IN CHARGE OF THE GRADING WORK AND TO THE BUILDING INSPECTOR. RECOMMENDATIONS FOR CORRECTIVE MEASURES, IF NECESSARY, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR APPROVAL.

OFFSITE IMPROVEMENT NOTICE

- 1. AN APPROVED ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK ACTIVITIES WITHIN THE PUBLIC RIGHT-OF-WAY. 2. A PUBLIC WORKS DEPARTMENT ENCROACHMENT PERMIT INSPECTION IS REQUIRED BEFORE THE BUILDING PERMIT FINAL CAN BE ISSUED. AT THE TIME OF PUBLIC WORKS DEPARTMENT INSPECTION, IF ANY OF THE EXISTING PUBLIC IMPROVEMENTS SURROUNDING THE SITE IS DAMAGED, NEW CONCRETE SIDEWALK, CURB AND GUTTER, AND ALLE/STREET PAVEMENT WILL BE REQUIRED. ADDITIONALLY, IF EXISTING UTILITIES INFRASTRUCTURE ARE DEEMED SUBSTANDARD, A NEW 1-INCH WATER SERVICE, WATER METER BOX, SEWER LATERAL AND/OR CLEANOUT WITH BOX AND LID WILL BE REQUIRED. 100% OF THE COST SHALL BE BORNE BY THE PROPERTY OWNER (MUNICIPAL CODES 14.24.020 AND 14.08.030). SAID DETERMINATION AND THE EXTENT OF THE REPAIR WORK SHALL BE MADE AT THE DISCRETION OF THE PUBLIC WORK INSPECTOR. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PUBLIC RIGHT OF WAY AT ALL TIMES DURING THE CONSTRUCTION PROJECT. A STOP WORK NOTICE MAY BE ISSUED FOR ANY DAMAGE OR UNMAINTAINED PORTION OF THE PUBLIC RIGHT OF WAY.
- 3. AN ENCROACHMENT AGREEMENT IS REQUIRED FOR ALL NON-STANDARD IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY. 4. ALL WORK RELATED TO WASTEWATER IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A C-42 LICENSED SANITATION SEWER
- CONTRACTOR OR AN "A" LICENSED GENERAL ENGINEERING CONTRACTOR. 5. ALL WORK RELATED TO WATER IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A C-34 LICENSED PIPELINE CONTRACTOR OR AN "A" LICENSED GENERAL ENGINEERING CONTRACTOR.

OWNER/SUBDIVIDER:
IONTOYA RESIDENCE
588 PACHECO PASS HWY
GILROY,CA

PRECISE GRADING PLAN FOR **MONTOYA RESIDENCE**

4588 PACHECO PASS HWY, GILROY, CA

- A PRE-GRADING MEETING SHALL BE SCHEDULED 48 HOURS PRIOR TO START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, CITY BUILDING INSPECTOR OR THEIR REPRESENTATIVES. REQUIRED FIELD INSPECTIONS WILL BE OUTLINED AT THE MEETING.

DOCUMENTATION

- AN AS-BUILT GRADING PLAN SHALL BE PREPARED BY THE CIVIL ENGINEER INCLUDING ORIGINAL GROUND SURFACE ELEVATIONS, AS GRADED GROUND SURFACE ELEVATIONS, LOT DRAINAGE PATTERNS AND LOCATIONS, AND ELEVATIONS OF ALL SURFACE AND SUBSURFACE DRAINAGE FACILITIES. HE/SHE SHALL PROVIDE WRITTEN APPROVAL THAT THE WORK WAS DONE IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN AND STATE THE NUMBER OF YARDS OF CUT AND/OR FILL MOVED DURING THE OPERATION.
- 2. A SOILS GRADING REPORT PREPARED BY THE SOILS ENGINEER, INCLUDING LOCATIONS AND ELEVATION OF FIELD DENSITY TESTS. SUMMARIES OF FIELD AND LABORATORY RESULTS AND OTHER SUBSTANTIATED DATA AND COMMENTS ON ANY CHANGES MADE DURING GRADING AND THEIR EFFECT ON THE RECOMMENDATIONS MADE IN THE SOILS ENGINEERING INVESTIGATION REPORT. HE SHALL PROVIDE WRITTEN APPROVAL AS TO THE ADEQUACY OF THE SITE FOR THE INTENDED USE AND COMPLETION OF WORK IN ACCORDANCE WITH THE JOB SPECIFICATIONS.
- 3. A GEOLOGIC GRADING REPORT PREPARED BY THE ENGINEERING GEOLOGIST, INCLUDING A FINAL DESCRIPTION OF THE GEOLOGY OF THE SITE, INCLUDING ANY NEW INFORMATION DISCLOSED DURING THE GRADING AND THE EFFECT OF SAME ON RECOMMENDATIONS INCORPORATED IN THE APPROVED GRADING PLAN. HE/SHE SHALL PROVIDE WRITTEN APPROVAL AS TO THE ADEQUACY OF THE SITE FOR THE INTENDED USE AS AFFECTED BY GEOLOGIC FACTORS.

ENGINEER'S NOTICE TO CONTRACTOR

- 1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE A REPRESENTATION AS THE TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY AND/OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT THE UTILITIES OF RECORD OR NOT THE RECORD OR NOT SHOWN ON THESE PLANS.
- RELOCATION OR REMOVAL OF ANY EXISTING UTILITIES SHALL BE PERFORMED BY THE RESPECTIVE UTILITY OWNERS, AT THE EXPENSE OF THE DEVELOPER.
- 3. THE GRADING CONTRACTOR SHALL SATISFY HIMSELF AS TO THE GRADING QUANTITY AS SHOWN ON THIS PLAN AS PART OF HIS BID. 4. IT IS REQUESTED THAT THE GRADING CONTRACTOR NOTIFY THIS PRIVATE ENGINEER BY CALLING AT LEAST 48 HOURS BEFORE COMPLETION OF THE GRADING OPERATION IN ORDER THAT THIS OFFICE MAY PERFORM A FINAL INSPECTION WITH OUR GRADE CERTIFICATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS
- CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PROJECT ENGINEER OF WORK.

NOTICE TO CONTRACTOR

- 1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 2. IF THIS PROJECT IS STAKED BY SURVEY CREWS OTHER THAN THOSE CREWS UNDER THE DIRECT SUPERVISION OF THE SIGNATORY ENGINEER, THE SIGNATORY ENGINEER WILL NO LONGER BE THE ENGINEER OF RECORD AND WILL HAVE NO RESPONSIBILITY AS TO THE FINAL CONSTRUCTED PROJECT. THE SIGNATORY ENGINEER WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT COULD HAVE BEEN CORRECTED DURING THE CONSTRUCTION OF THIS PROJECT, IF THE STAKING HAD BEEN DONE BY THE SURVEY CREW UNDER HIS DIRECT SUPERVISION.
- 3. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

ADDITIONAL NOTE

- 1. LICENSED SURVEYOR TO PROVIDE MONITORING OF SHORING AND IMPROVEMENTS ON THE ADJACENT PROPERTIES AND SUBMIT RESULTS WITH A REPORT TO THE SHORING DESIGN ENGINEER AND TO THE BUILDING INSPECTOR ON A DAILY BASIS DURING EXCAVATION AND SHORING AND WEEKLY BASIS THEREAFTER. WHERE DEWATERING IS REQUIRED, MONITORING SHALL CONTINUE UNTIL DEWATERING IS STOPPED.
- 2. IN LIEU OF SPECIAL INSPECTION BY DEPUTY BUILDING INSPECTOR. GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS INSPECTIONS DURING SHORING AND EXCAVATION OPERATIONS AND DURING REMOVAL OF SHORING.
- 3. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNER BY CERTIFIED MAIL 10 DAYS PRIOR TO STARTING THE SHORING OR EXCAVATION WORK.
- 4. SURVEYOR TO FILE A CORNER RECORD OR RECORD OF SURVEY WITH THE OFFICE OF COUNTY SURVEYOR. EVIDENCE OF FILING SHALL BE SUBMITTED TO BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION.
- 5. SURVEYOR OR ENGINEER SHALL PERMANENTLY MONUMENT PROPERTY CORNERS OR OFFSET BEFORE STARTING GRADING.





							PLANS PRE	EPARI
						POFFSS/0		
						AND THE TRANSPORTED FOR THE TATUL FOR		
				DESIGNER				
				DESIGNED BY:		★ EXP. 3/31/23		
						Rever and		
				DRAFTED BY:		OF CALIFOR		
NO.	DATE	REVISIONS	APPROVED BY	CHECKED BY:	W.C.			

UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLAN WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED

SHEET INDEX

TITLE SHEET	C-1
PRECISE GRADING PLAN	C-2
SECTIONS & DETAILS	C-3
CUT AND FILL PLAN	C-4
EROSION CONTROL PLAN	C-5

EARTH WORK QUANTITY

CUT	143	C.Y.
FILL	63	C.Y.
IMPORT	0	C.Y.
EXPORT	80	C.Y.
OVEREXCAVATION AND RECOMPACTION	50	C.Y.
NEW ADDED IMPERVIOUS AREA:	3,060	SQ-FT

NOTE:

QUANTITIES SHOWN HERE ON ARE FOR PERMIT AND/OR BONDING PURPOSE ONLY.

ARCHITECT

GUSTAVO ROJAS 3024 HUFF AVE. SAN JOSE, CA 95128 PHONE: 408-722-7197 EMAIL: GUSROJAS70@HOTMAIL.COM

CIVIL ENGINEER

W.H. CIVIL ENGINEERING INC. NORTH CA: 1590 OAKLAND RD., SUITE B112 SAN JOSE, CA 95131 SOUTH CA: 25 MAUCHLY, SUITE 323 **IRVINE, CA 92618**

BENCH MARK

PROJECT BENCHMARK ELEVATIONS ARE ON ASSUMED DATUM.

LEGAL DESCRIPTION

THE MOST NORTHERLY 350' OF LOT 10 OF SANTA CLARA COUNTY ASSESSOR'S PARCEL MAP RECORDED IN BOOK 898 PAGE 26.

FEMA INFORMATION

FLOOD ZONE A PER FEMA MAP NO. 06085C0780H EFFECTIVE DATE MAY 18, 2009



RED BY:

WAI LIN MAUNG CHEN

R.C.E. C83487 EXP. 3/31/2023

W.H. CIVIL ENGINEERING

NORTH-CA:1590 OAKLAND RD., SUITE 112, SAN JOSE, CA 95131 SOUTH-CA: 25 MAUCHLY, SUITE 323, IRVINE, CA 92618 INFO@WHENGINEERINGGROUP.COM

> 06-29-2022 DATE



SECTION 4216 / 4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE SSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOU DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TOW WORKING DAY BEFORE YOU DIG.

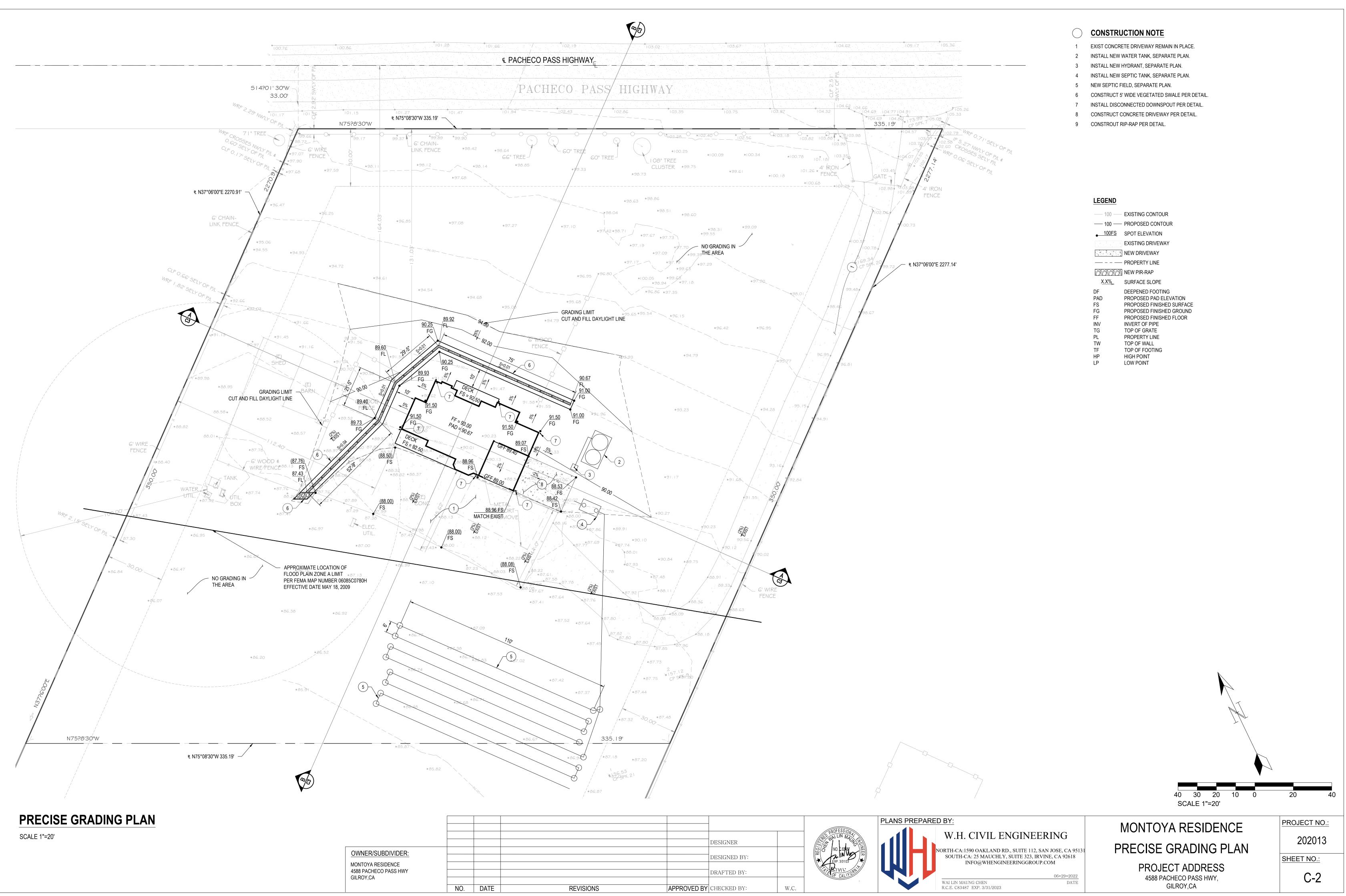


PROJECT NO.

202013

SHEET NO .:

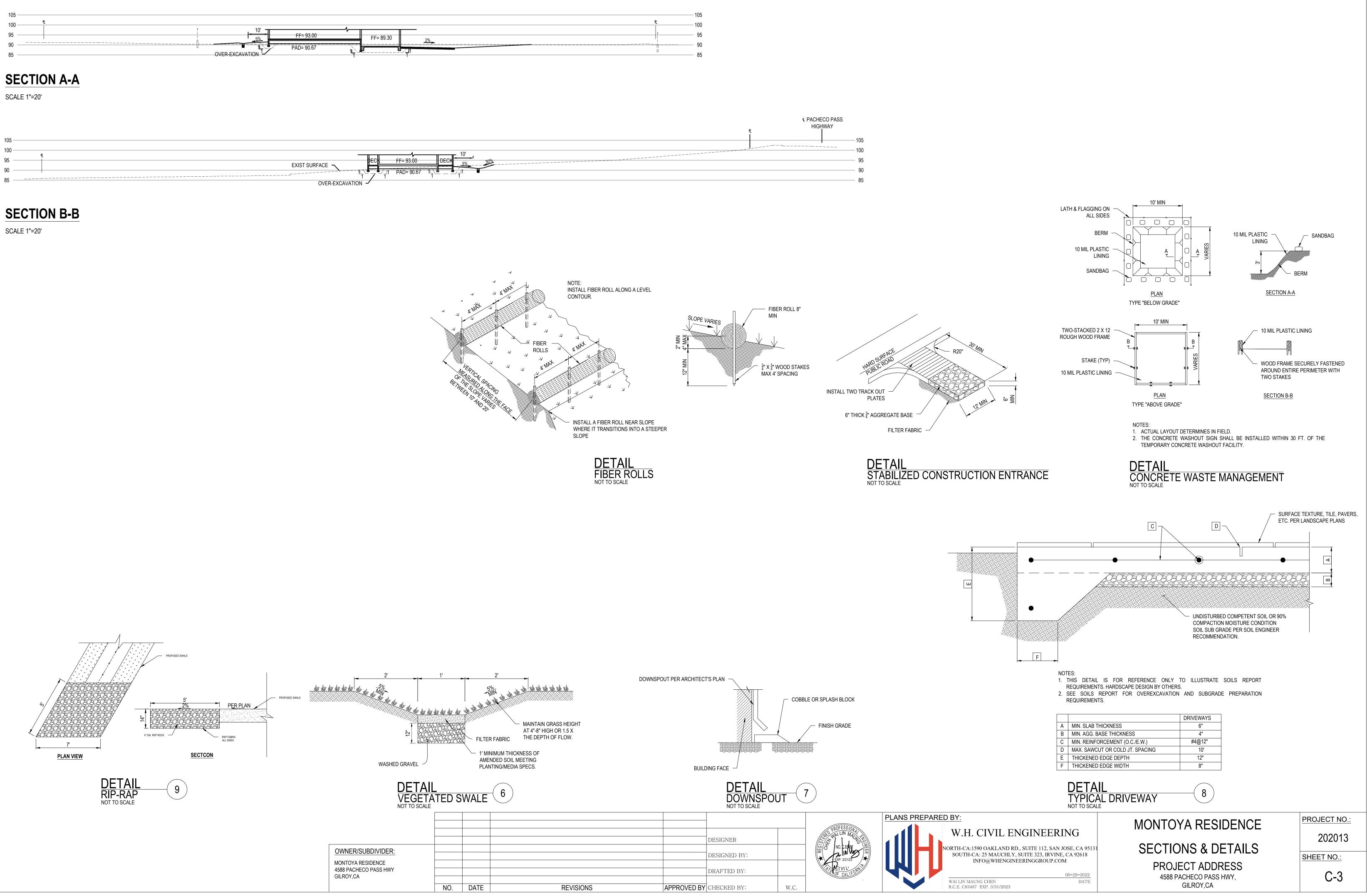
U-



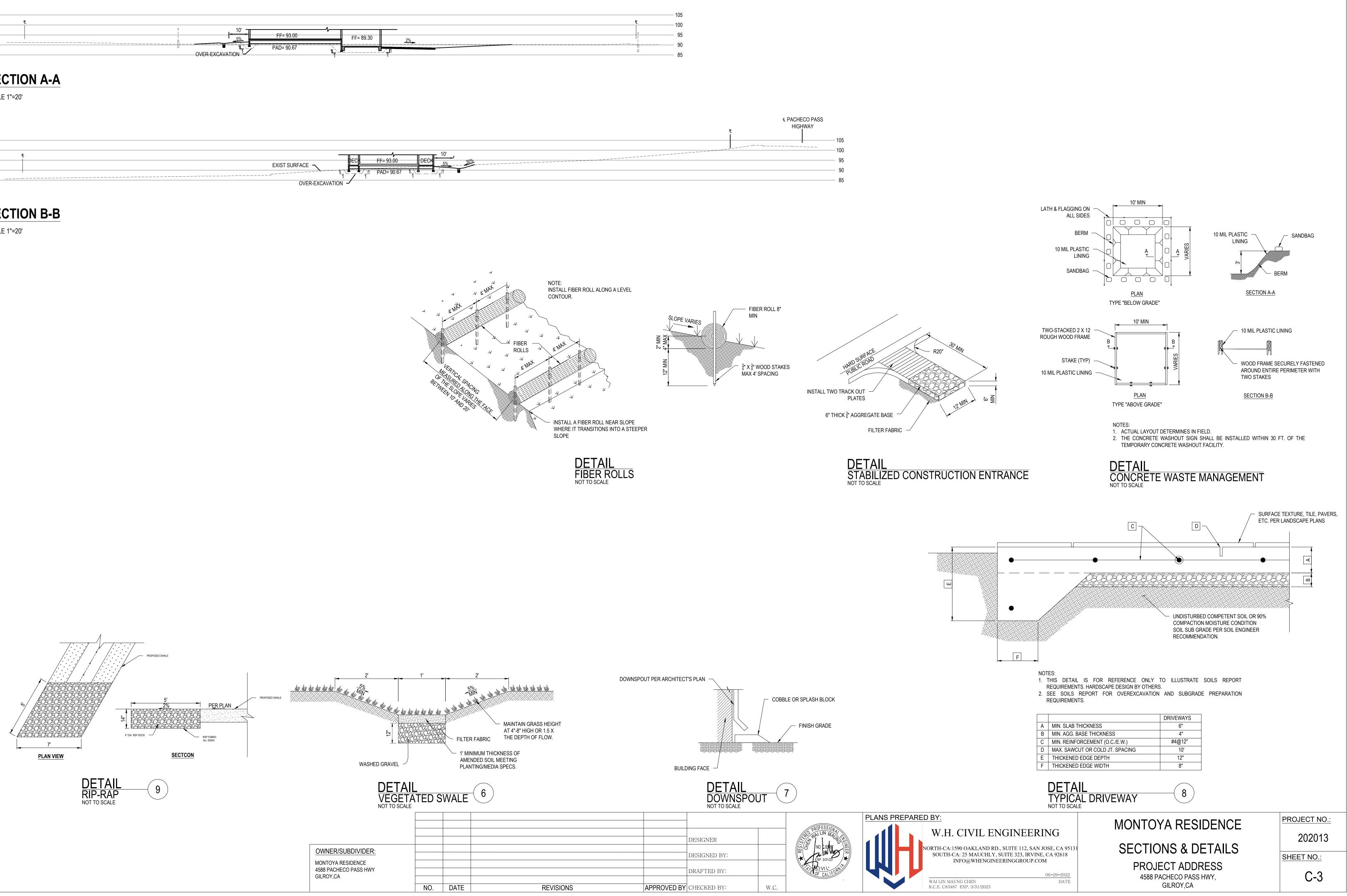
DATE	REVISIONS	APPROVED BY	CHECKED BY:	W.C.	
			DRAFTED BY:		OF CALIFORN
					EXP. 3/31/23
			DESIGNED BY:		+ thing
					(E) 5 NO. C 83487

105.26	
105.33 2 102.79 WRF	
WRF 0.71, SELY OF P/L 102.58 IF 5.27, NW/LY OF P/L 02.60 CROSSES SELY OF P/L WRF 0.06' SELY OF P/L #	
N =	

— 100 —	EXISTING CONTOUR
<u> </u>	PROPOSED CONTOUR
<u>100FS</u>	SPOT ELEVATION
	EXISTING DRIVEWAY
4	NEW DRIVEWAY
	PROPERTY LINE
	NEW PIR-RAP
<u>X.X%</u>	SURFACE SLOPE
DF PAD FS FG FF INV TG PL TW TF HP LP	DEEPENED FOOTING PROPOSED PAD ELEVATION PROPOSED FINISHED SURFACT PROPOSED FINISHED GROUND PROPOSED FINISHED FLOOR INVERT OF PIPE TOP OF GRATE PROPERTY LINE TOP OF WALL TOP OF FOOTING HIGH POINT LOW POINT



105 -				
100 -				
100	P		^	
95 —		DECK	FF= 93.00	DECK
30	EXIST SURFACE 🥆		FF- 93.00	
90 –				
90		╵_┛	_1 PAD= 90.67	1Ļ∖≞
05	1	/	1	1
85 –	OVER-EXCAVATION -	/		

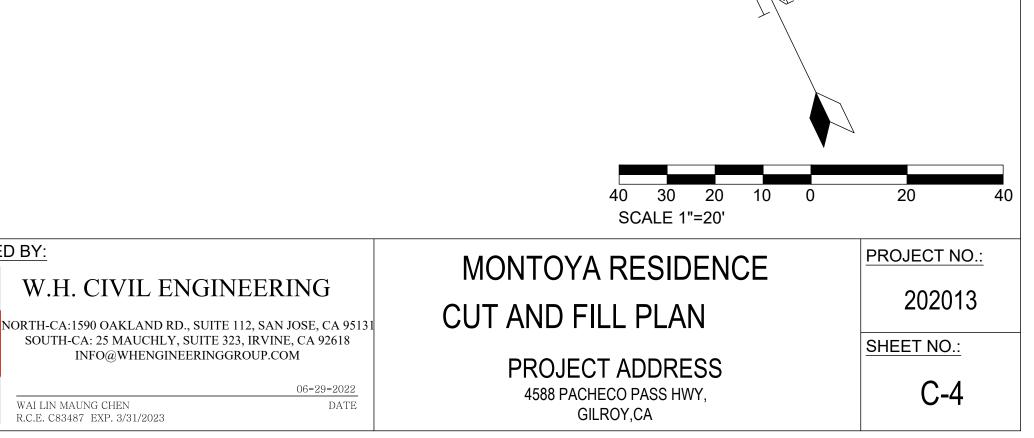




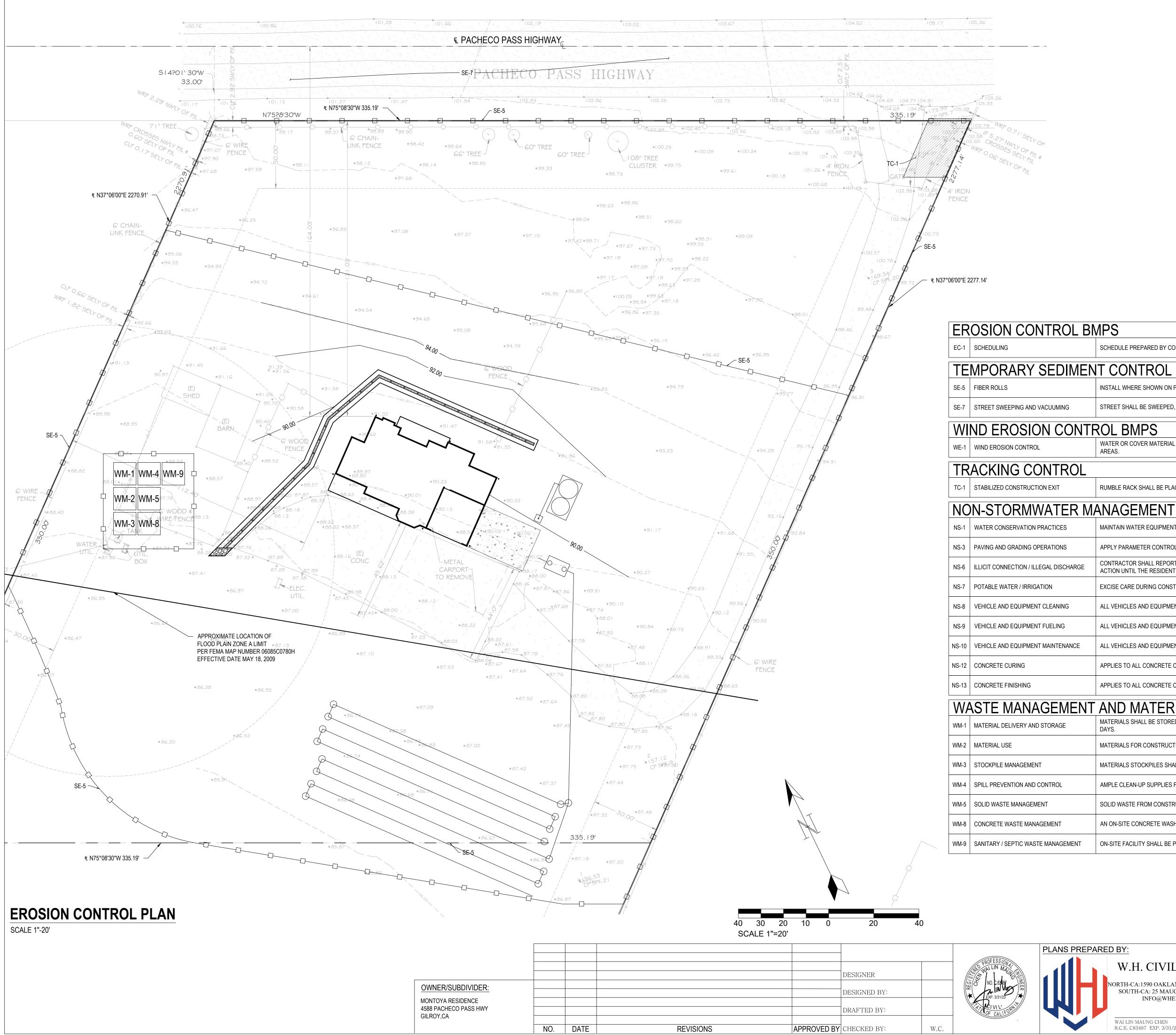
							PLANS PREPAR	RED
						PROFESS/04		
						ALD NALLIN MAT		
				DESIGNER				
								N
				DESIGNED BY:		K 1 EXP 3/31/23		
				DRAFTED BY:		OF CALLEOR		
).	DATE	REVISIONS	APPROVED BY	CHECKED BY:	W.C.			

GRADING AND EXCAVATION SUMMARY

		AREA(SQ-FT)	CUT (FT)	CUT VOLUME(C.Y.)	FILL (FT)	FILL VOLUME (C.Y.)
	BUILDING PAD AREA A1 AREA A2	2,530 2,130 400	- 1.00	- 15	0.64 -	50 -
	LANDSCAPE AREA AREA L1 AREA L2 AREA L3 AREA L4	10,208 3,998 4,238 1,400 572	0.50 0.25 - 0.25	74 39 - 5	- - 0.25 -	- - 13 -
	DRIVEWAY AREA D1	530 530	0.50	10	-	-
4	TOTAL	13,268	-	143	-	63



D BY:



SCHEDULE PREPARED BY CONTRACTOR SHALL BE ON-SITE DURING CONSTRUCTION

INSTALL WHERE SHOWN ON PLAN.

STREET SHALL BE SWEEPED, SEDIMENT COLLECTED, AND DISPOSED OF OFF-SITE ON A DAILY BASIS.

WATER OR COVER MATERIAL SHALL BE USED TO ALLEVIATE DUST NUISANCE ON THE ROUGH GRADED PADS AND ANY STOCKPILE

RUMBLE RACK SHALL BE PLACED ON THE DRIVEWAY TO ENSURE THAT ALL VEHICLES LEAVING THE SITE PASS OVER THE DEVICES BEFORE ENTERING THE PUBLIC STREET

MAINTAIN WATER EQUIPMENT TO PREVENT NON-STORMWATER DISCHARGES.

APPLY PARAMETER CONTROLS AND VACUUMING TO PREVENT NON-STORMWATER DISCHARGE.

CONTRACTOR SHALL REPORT ILLICIT CONNECTIONS OR ILLEGALLY DUMPED MATERIALS ON SITE TO THE RESIDENT ENGINEER IMMEDIATELY AND CONTRACTOR SHALL TAKE NO FURTHER ACTION UNTIL THE RESIDENT ENGINEER PROVIDE A RESPONSE

EXCISE CARE DURING CONSTRUCTION TO PREVENT NON-STORMWATER DISCHARGES.

ALL VEHICLES AND EQUIPMENT WILL BE CLEANED OFF-SITE.

ALL VEHICLES AND EQUIPMENT WILL BE FUELED OFF-SITE.

ALL VEHICLES AND EQUIPMENT WILL BE MAINTAINED OFF-SITE.

APPLIES TO ALL CONCRETE CONSTRUCTION.

APPLIES TO ALL CONCRETE CONSTRUCTION.

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL

MATERIALS SHALL BE STORED ON-SITE IN ORIGINAL MARKED CONTAINERS AND COVERED FROM RAIN AND WIND. MATERIAL INVENTORY SHALL CONSIST OF SUPPLY REQUIRED FOR A FEW

MATERIALS FOR CONSTRUCTION SHALL BE USED IN ACCORDANCE WITH PRODUCT DIRECTION.

MATERIALS STOCKPILES SHALL BE SURROUNDED BY A TEMPORARY SEDIMENT BARRIER AND COVERED TO MAINTAIN DUST CONTROL.

AMPLE CLEAN-UP SUPPLIES FOR STORED MATERIALS SHALL BE KEPT ON-SITE. EMPLOYEE SHALL BE EDUCATED ON THE CLASSIFICATION OF SPILLS AND APPROPRIATE RESPONSES.

SOLID WASTE FROM CONSTRUCTION ACTIVITIES SHALL BE STORED IN APPROPRIATE CONTAINERS. FULL CONTAINERS SHALL BE DISPOSED OF PROPERLY.

AN ON-SITE CONCRETE WASHOUT AREA SHALL BE CONSTRUCTED, USED, AND DISPOSED OF IN A MANNER WHICH MEETS THE REQUIREMENT OF THE CITY.

ON-SITE FACILITY SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT.

W.H. CIVIL ENGINEERING

NORTH-CA:1590 OAKLAND RD., SUITE 112, SAN JOSE, CA 95131 SOUTH-CA: 25 MAUCHLY, SUITE 323, IRVINE, CA 92618 INFO@WHENGINEERINGGROUP.COM

MONTOYA RESIDENCE **EROSION CONTROL PLAN**

PROJECT ADDRESS 4588 PACHECO PASS HWY, GILROY,CA

PROJECT NO.: 202013

SHEET NO .:

C-5

WAI LIN MAUNG CHEN R.C.E. C83487 EXP. 3/31/2023 06-29-2022 DATE