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

# GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY XXXXXXXX AND DATED XXXXXXX XX, 2019. THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS. 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE
- SATISFACTION OF THE COUNTY. DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.
- DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR
- CONDITIONS OF DEVELOPMENT APPROVAL. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.
- DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR
- ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
- . UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS. THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18).
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

# CONSTRUCTION STAKING

- THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND
- GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING
- CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR. PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY
- AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK. ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

# CONSTRUCTION INSPECTION

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

# SITE PREPARATION (CLEARING AND GRUBBING)

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE ACCESS ROADS AND DRIVEWAYS AS FOLLOWS:
  - PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
  - B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.
- JTILITY LOCATION, TRENCHING & BACKEILI
- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 811 A MINIMUM OF 24 HOURS BEFORE BÈGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED
- OUTSIDE THE PAVED AREAS. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS
- DIRECTED BY THE COUNTY. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

# retaining walls

- REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING CONTINUAL CONTROL OF THE COUNTY INSPECTOR INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL
- SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

# GRADING

- SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1. IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE HOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.
- 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS. 5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING
- AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. 6. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
HOUSE & GARAGE	72	0	1.5
DRIVEWAY &	292	0	5.0'
YARD			
OFF SITE	0	0	0
IMPROVEMENTS			
TOTAL	364	0	

- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP
- 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
- 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
- 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE
- CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95%
- RELATIVE COMPACTION. 11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY
- ENGINEER FOR BUILDING OCCUPANCY. 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR
- TO THE CONSTRUCTION OF ANY PAVED AREA 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
- 14. TOTAL DISTURBED AREA FOR THE PROJECT
- <u>\_\_\_20,000</u>\_\_\_SF. 15. WDID NO.
- PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

# TREE PROTECTION

- 1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA R INTERFACES WITH THE LIMITS OF DEVELOPMENT ON SITE. THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
- FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE
- CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL
- BARRIER FROM CONSTRUCTION ACTIVITIES. SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE
- PROTECTION MEASURES MAY BE FOUND AT http://www.sccplanning.gov." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACED AND INSPECTED BY THE LAND
- DEVELOPMENT ENGINEERING INSPECTOR. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

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

# STREET LIG<u>HTING</u>

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

# SANITARY SEWER

- THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY. NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE 2. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL
- CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION AFTERCONSTRUCTION. OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

# PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI

# AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. 2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING
- AREAS AT CONSTRUCTION SITES. 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS
- CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED. 6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL
- HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
- 7. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PFR HOUR. 8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE
- RUNNING IN PROPER CONDITION PRIOR TO OPERATION. 9. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED. A. 15 MILES PER HOUR (MPH) SPEED LIMIT
  - B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY
- MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367. 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM
- CONDITION CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
- 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8. 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
- 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE. 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE
- COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT. CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE
- LIMITED TO THE FOLLOWING; A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
- B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES,
- INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS. PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS. SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY. 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY
- TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

# STORM DRAINAGE AND STORMWATER MANAGEMENT

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

# AS-BUILT PLANS STATEMENT

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

# SIGNATURE

- COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER
- GEOTECHNICAL ENGINEER OBSERVATION
- 1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH
- THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.







# EXISTING TREE PROTECTION DETAILS

- 1. PRIOR TO THE COMMENCEMENT OF ANY GRADING. TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION
- SHALL BE INCORPORATED INTO THE GRADING PLANS. 2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
- 3. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART. 4. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER
- FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
- 5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

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

ENCROACHMENT PERMIT NO.

DATE 9/14/23

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHUOT AN ENCROACHEMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED XXXXX, XX, XXXX FILE NO. XXXXX-XXX-XXX-XXXX. MEa

SIGNATURE



# COUNTY ENGINEER'S NOTE

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

CHRISTOPHER L. FREITAS

42.107 R.C.E. NO.



# GRADING & DRAINAGE IMPROVEMENT PLANS \_ANDS OF FREDERICKS SCOPE OF WORK

- 1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.
- 2. SCOPE OF WORK IN RIGHT OF WAY: NONE, THE EXISITNG HOME IS LOCATED ON A PRIVATE ROAD AND HAS UTILITIES IN PLACE.
- 3. SCOPE OF WORK ON SITE: A. CONSTRUCT NEW HOUSE
  - B. CONSTRUCT DRIVEWAY AND RETAINING WALLS
  - C. CONSTRUCT NEW SEPTIC SYSTEM

# LEGEND (EXISTING)

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# LEGEND (PROPOSED)

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NEW TOP OF WALL TW=124.0 🦳 GRADE
NEW FINISH GRADE 100.7 100,2 EXIST. GRADE <100.7
NEW AC PAVING (2' AC OVER 6" AB)
AREA OF DISTURBANCE (20,000 SQUARE FEET) EAVE LINE PROPERTY LINE EXST ELEVATION CONTOUR
EXST ELEVATION35 CONTOUR (10' INTERVAL)
NEW FINISH GRADE CONTOUR (2' INTERVAL)
GRADE
HIGH PIONT H-P

# COUNTY OF SANTA CLARA LAND DEVELOPMENT ENGINEERING & SURVEYING GRADING / DRAINAGE PERMIT NO. ISSUED BY: \_\_\_\_\_ DATE:\_\_\_ MICHAEL F. GOOH No. 7867 Exp. 12/31/24

3-31-24

EXPIRATION DATE

C 1	TITLE SHEET, COUNTY STANDARD NOTES, VICINITY MAP								
C2	GRADING & DRAINAGE PLAN								
C3	CROSS SECTIONS, DRIVEWAY PROFILE, DETAILS								
C4	WATER POLLUTION CONTROL PLAN								
C5	TOPOGRAPHIC MAP								
BMP-1 BMP-2	SANTA CLARA COUNTY BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS SHEET SANTA CLARA COUNTY BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS SHEET								
ENGI	NEER'S NAME: MICHAEL F GOODHUE								
ADDF	RESS: PO BOX 1914 APTOS, CA. 95001								
PHONE NO. (831) 601-9519									
FAX	FAX NO. (831) 763–1661								
Revisio	n 1 Date APN Sheet								
Revisio	n 2 Date 538-08-095 & 96 C1 Co. File of								
Revisio	n 3 Date   7								

# SHEET INDEX



# GENERAL NOTES

- ALL RECOMENDATIONS CONTAINED IN THE GEOTECHNICAL INVE INCOPORATED BY REFERENCE.
- THE INTENT OF THIS PLAN IS TO PROVIDE FOR GRADING AND 2. IN ACCORDANCE WITH THE REQUIREMENTS OF SANTA CLARA
- TOP SOIL SHALL BE STRIPPED AND STOCK PILED BEFORE GRA 3. 4. NATIVE MATERIAL USED FOR FILL SHALL BE APPROVED BY TH PRIOR TO PLACEMENT.
- PRIOR TO EXCAVATION, CONTRACTOR SHALL LOCATE ALL UND 811 TO HAVE UTILITIES LOCATED AND MARKED.
- CONTRACTOR SHALL ROUTE ALL DOWNSPOUTS TO PRE-CAST PAVED AREAS.
- CONTRACTOR SHALL GRADE TO PROVIDE 5% MINIMUM SLOPE A MINIMUM DISTANCE OF 5 FEET IN LOCATIONS WERE CONCRE FLAT WORK IS NOT INSTALLED, UNLESS OTHERWISE NOTED.
- AGGREGATE BASE SHALL BE CLASS 2 IN CONFORMANCE WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) ASPHALT CONCRETE (AC) SHALL BE 1/2" MAXIMUM TYPE "B' 39 OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPOR SPECIFICATIONS. ASPHALT SHALL BE AR-4000 AND AMOUNT AGGREGATE SHALL BE BETWEEN 5 AND 7 PERCENT BY WEIGH
- FOR AC CURBS SHALL BE AR 8000 WITH 3/8' MAXIMUM SIZE 10. A SEPARATE PERMIT FROM THE BUILDING INSPECTION OFFICE RETAINING WALLS EXCEEDING 4' IN HEIGHT NOT ASSOCIATED
- 11. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15 IS AT SANTA CLARA COUNTY BUILDING DEPARTMENT.
- 12. THIS GRADING AND DRAINAGE PLAN IS BASED ON A TOPOGRA L.E, ENGINEERING, SAN JOSE, CA., DATED OCTOBER 2016. CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFTEY THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF PROPERTY.

# PROPOSED IMPROVEMENT NOTES

- 1 INSTALL FIRE DEPARTMENT REQUIRED 5,000 GALL
- 2 FIRE DEPARTMENT TURN AROUND TEMPLATE, SEE REQUIRED DIMENSIONS (TURNAROUND C)
- 3 INSTALL FIRE DEPARTMENT REQUIRED FIRE HYDRA
- 4 INSTALL 145' LONG RETAINING WALL, HEIGHT VARI STRUCTURAL DESIGN BY OTHERS

ORIGINAL SCALE IN INCHES

				BY	
ESTIGATION ARE HEREBY D DRAINAGE IMPROVEMENTS COUNTY. ADING. HE GEOTECHNICAL ENGINEE DERGROUND UTILITIES. CA CONCRETE SPLASH BLOCK AWAY FROM BUILDING FOR RETE SWALE OR CONCRETE H SECTION 26 OF THE STA	LEGEND (PEXISTING FINISH FLOORSFIRE HYDRANTNEW TOP OF WA GRADEERNEW FINISH GRADEALLEXIST. GRADEKS OR(2' AC OVER 6"R(20,000 SQUARE EAVE LINE PROPERTY LINEATE OFEXST ELEVATION	EXST         FF         ILL         TW=124.0         DE       100.7         100.7         AB)         BANCE         FEET)		REVISION	
STANDARD SPECIFICATIONS. "IN CONFORMANCE WITH S RTATION (CALTRANS) STAN T TO BE MIXED WITH THE HT OF DRY AGGREGATE. E AGGREGATE. IS REQUIRED FOR THE WITH THIS PERMIT. T THE DISCRETION OF THE CAPHIC MAP PREPARED BY 24 HOURS A DAY DURING ALL PERSONS AND	CONTOUR SECTION (2' INTERVAL) NDARD EXST ELEVATION CONTOUR ASPHALT (10' INTERVAL) NEW FINISH GRAI CONTOUR (2' INTERVAL) GRADE TO DRAIN HIGH PIONT S LEGEND (EX	$\frac{35}{DE} = 30$	NFa	FESSION 9/14/23 LAND SUR	F GODHUE A NO. 7867
		DINT UTILITY POLE	`}	PROFIL	61 61 67 67 67 67 61 67 61 61
LON WATER TANK SHEET C3 FOR ANT RIES 1' TO 5'.	LINE EASEMENT LINE ELEVATION CONTOUR (5' INTERVAL) ELEVATION CONTOUR (1' INTERVAL) EDGE OF PAVEMENT EDGE OF PAVEMENT EDGE OF GRAVEL DRIVEWAY CENTER LINE OF EXISTING DRIVEWAY	260		PROJECT ENGINEER	MFG Engineers, Inc PO BOX 1914 APTOS, CA. 95001 (831) 763-16 CEL (831) 601-95
	ESTIMATED EARTHWO (NOT FOR BIDDING CUT AT DRIVEWAY & YARD AT GARAGE SLAB AT HOUSE FOUNDATION TOTAL CUT FILL TOTAL FILL DOES NOT INCLUDE SHRINKAGE	ORK PURPOSES) 292 CUBIC YARDS 60 CUBIC YARDS 12 CUBIC YARDS 364 CUBIC YARDS 0 CUBIC YARDS FACTOR FOR FILL A CALCULATIONS		⊃N 558-08-095 & 096	DING & DRAINAGE PLAN santa cruz highway, los gatos, ca
	EXISTING IMPERVIOUS AREA SHEDS ACCESSORY STRUCTURE TOTAL EXSTING IMPERVIOUS PROPOSED IMPERVIOUS ARE	225*SF <u>1,165 SF</u> S AREA 1,390 SF EA 3 300 SE	_	AF	GRA 22197 OLD
	ASPHALI DRIVEWAY House & Garage	3,300 SF 3,796 SF			<u> </u>

	GR	2197 01			
DRAW	N: MF	G			
CHECKED: MFG					
DATE:	9/	23			
SCAL	E: 1"	=20'			
JOB	NO.				
	SHEET				
C2	<u>2</u> of	7			

DECK AT HOUSE

NEW IMPERVIOUS AREA

TOTAL PROPOSED IMPERVIOUS AREA 7,886 SF

NET IMPERVIOUS AREA TO BE ADDED 7,661 SF

IMPERVIOUS AREA TO BE REMOVED

\*IMPERVIOUS AREA TO BE REMOVED

DRAWING NAME:

3,796 SF \_\_\_\_\_790\_SF\_

225 SF \_\_\_\_\_7,886\_SF



#### **TURNAROUNDS:** Χ.

Turnarounds are required for all driveways with a length in excess of 150 feet.











FOR REDUCED PLANS       0       1       2       3         ORIGINAL SCALE IN INCHES
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FIBER ROLLS DISTURBANCE

STORM DRAIN OFFSITE INLET

STABILIZED CO THIS DESIGNED EFFECTIVE FO

PARK, TRAVEL Compaceted

USED (I.E. SO ALL CHEMICAL

THERE IS NO <u>VEHICLE STOR</u> MEASURES SH

FOR REDUCED PLANS ORIGINAL SCALE IN INCHES 

			ВΥ	
TROL REQUIREMENTS				
ROSION CONTROL AND HOUSE KEEPING MEASU SILT, DUST, GARBAGE AND ANY OTHER POLLU AND SOIL DURING CONSTRUCTION. THESE ME ERAL, STATE AND LOCAL REQUIREMENTS THRO CTICES (BMP'S)LISTED BELOW.	RES ARE INTENDED TO CONTROL TANTS FROM THE SITE OR INTO ASURES ARE INTNEDED TO DUGH THE USE OF BEST			
ARE SOIL: ONE OF THE FOLLOWING MEASURES WINTER SEASON (OCTOBER 15TH TO APRIL 15	SHALL BE USED TO COVER BARE SOIL TH);		REVISION	
<u>IRAW MULCH</u> IRAW MULCH SHALL BE USED IN DISURBED AR ITROL UNTIL PERMANENT STABILIZATION IS ES ) 3:1 H:V (33%).	REAS AS A MEANS FOR TEMPORARY TABLISHED. IT MAY BE USED ON			
TRAW MULCH SHALL CONSIST OF SPREADING S STURBED AREAS AND THEN PLACING A UNIFOR INCORPORATING IT INTO THE SOIL WITH A STU STABILIZING EMULSION.	EED (A MINIMUM OF 5 LBS/1000 SQ M LAYER OF STRAW (2-3 BALES/1000 IDDED ROLLER OR ANCHORING IT WITH		DATE	
BE ANNUAL WINTER BARLEY AND THE STRAW	SHALL BE DERIVED FROM RICE BARLY	N	- A	HILE *
ITROL BLANKETS (GEOTEXTILE OR EROSION MA ITROL BLANKETS ARE REQUIRED ON SLOPES S O ON GROUND SURFACES FLATTER THAN 3:1 IT BE PLACED ON THE DISTURBED GROUND PR NKET AND DESCRIBED IN THE SEED AND STRA NTROL:	TS) TEEPER THAN 3:1, HOWEVER THEY IN LIEU OF SEED AND STRAW MULCH. RIOR TO PLACEMENT OF THE EROSION W MULCH SECTION ABOVE.	1 pca	9/14/23 LAND	UE 10 HILP 10 NO. 7867 NO. 7867 EXP. 12/31/24 RIU RIU RIU RIU CALIF
<u>(WATTLES)</u> SHALL BE PLACED AT THE DOWN LIMITS TO PREVENT OR LIMIT SEDIMENT FROM S OR SITES DIRECTLY ADJACENT TO STREETS, THE BACK OF SIDEWALK OR CURB TO LIMIT SE	SLOPE PERIMETER OF 1 LEAVING THE SITE. IN FIBER ROLES SHALL BE DIMENT FROM ENTERING THE	m	PROFESSION	60 міснает F соорн К No. 43754 Exp. 6/30/25 CIVIL
I INLET PROTECTION: DRAIN INLETS ON THE SITE (NEW AND EXISTING TS SHALL RECIEVED STORM DRAIN INLET PROT I INLET PROTECT DETAIL ON THIS PLAN.	G) AND EXISTING DOWNSTREAM ECTION AS SHOWN ON THE		VEER	) 763–166 ) 601–951
CONSTRUCTION EXIT: TR DOES NOT BELIEVE THAT A STABILIZED CON OR THIS PROJECT. CONTRACTROR SHALL EFFE 'SWEEPING THE STREET DAILLY IF NECESSARY THE CONTRACTOR OR DIRECTED BY THE COUN	NSTRUCTION EXIT WOULD BE CCTIVELY LIMIT OFF SITE AND BY OTHER MEANS AS TY INSPECTOR.		CT ENGIN	eers, Inc 914 95001 831  CEL (831
ESS AREAS: SHALL PROVIDE A ROCKED ACCESS AREA WE L AND WORK. ROCKED ACCESS AREAS SHAL BASE ROCK OR DRAIN ROCK. ROCKED ACCE RUCTION VEHICLES OFF OF BARE SOIL. NG REQUIREMENTS:	RE CONSTRUCTION VEHICLES L CONSIST OF 6" OF SS AREAS ARE INTENDED TO		PROJE	MFG Engine PO BOX 19 APTOS, CA
<u>OL/WIND EROSION CONTROL:</u> SHALL EFFECTIVELY LIMIT DUST AND WIND EF AND KEEPING ALL MATERIAL STOCK PILES COV	ROSION BY WATERING THE SITE /ERED WHEN NOT IN USE.			CA
<u>IN MATERIALS:</u> DF STOCKPILED CONSTRUCTION MATERIALS THA DIL SPOILS, AGGREGATE FLY ASH, STUCCO, HY	T ARE NOT ACTIVELY BEING DRATED LIME, ETC) SHALL BE		9	_A∖ atos,
LS SHALL BE STORED IN WATERTGHT CONTAIN CONTAINMENT TO PREVENT ANY SPILLAGE OR ETELY ENCLOSED. F CONSTRUCTION MATERIALS TO PRECIPITATION CLUDE THOSE MATERIALS AND EQUIPMENT TH	IERS (WITH APPROPRIATE LEAKAGE) OR IN A STORAGE N SHALL BE MINIMIZED. THIS TA ARE INTENDED TO BE		& 09	LOS G
EMENT PRACTICES TO LIMIT AND PREVENT THE TRUCTION MATERIALS SHALL BE IMPLEMENTED.	E OFF-SITE TRACKING OF		92	√A( vaΥ,
<u>GEMENT:</u> ANY RINSE OR WASH WATER OR MATERIALS R INTO THE STORM DRAIN SYSTEM SHALL BE FACILITIES SHALL BE CONTAINED (E.G. PORTAB OF POLLUTANTS. PORTABLE TIOLETS SHALL B INLETS, STREETS, DRIVEWAYS, DRAINAGE FACI EAS. FACILITIES SHALL BE INSECTED REGULARLY AN	ON IMPERVIOUS OR PERVIOUS PREVENTED. ELE TOILETS) TO PREVENT E LOCATED A MINIMUM OF 20' LITIES, STREAMS OR OTHER D CLEANED AND REPLACED AS		3-08-03	& DRAII
E AND DISPOSAL CONTAINERS AT THE END OF I RAIN EVENT. FROM WASTE DISPSOAL CONTAINERS TO THE LL BE PREVENTED. WASTE MATERIAL SHALL BE CONTAINED AND S AIN AT ALL TIMES UNLESS ACTIVELY BEING US THAT EFFECTIVELY ADDRESS HAZARDOUS ANI PLEMENTED. AND MATERIALS FOR CLEANUP OF SPILLS SHAL AND LEAKS CAN AND SHALL BE CLEANED IMI	F EACH WORK DAY AND STORM WATER DRAINAGE SECURELY PROTECTED FROM SED. D NON-HAZARDOUS SPILLS L BE AVAILABLE ON SITE SO MEDIATLEY AND DISPOSED OF		APN 558	SRADING OLD SANTA (
ASHOUT AREAS AND OTHER WASHOUT AREAS SHALL BE CONSTRUCTED TO EFFIECTIVELY CO DISCHARGE INTO THE SOIL OR SURROUNDING	THAT CONTAIN POSSIBLE NTAIN POLLUTANTS SO THAT AREA.			2197
RAGE & MAINTENANCE: HALL BE TAKEN TO PREVENT OIL, GREASE OR	FUEL FROM LEAKING ONTO			<sup>(N</sup>
NT OR VEHICLES, WHICH ARE TO BE FUELED , BE IN A DESIGNATED AREA FITTED WITH APPRI	3. MAINTAINED AND STORED ON OPRIATE BMP's.		DRAW	N: MFG
BE IMMEDIATELY CLEANED AND LEAKED MAT	ERIALS SHALL BE DISPOSED OF		CHECI	KED: MFG
MATERIALS: CKPILED AND STORED MATERIALS SUCH AS M	ULCHES, TOPSOIL, FERTILIZERS AND		DATE:	9/23
THE APPLICATION OF ANY ERODIBLE LANDSCF DRECAST RAIN EVENT OR DURING PERIODS OF	AGHVELT USED. PAE MATERIALS WITHIN 2 DAYS RAIN.			$\approx 1 = 20^{\circ}$
BLE LANDSCAPE MATERIAL AT QUANTITIES AN URES' RECOMENDATIONS OR BASED ON WRITTE	ND APPLICATION RATES ACCORDING IN SPECIFICATIONS BY			SHEET
BLE AND EXPERIENCED PERSONNEL.				1 оғ 7
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![](_page_4_Figure_0.jpeg)

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AREA DRAIN BUILDING	FC	EASEMENT FACE OF CURB	PHF	EASEMENT PUBLIC TITUTY FASEMENT	<b>4</b>	BENCH
BUILDING SETBACK LINE	FD	FOUND	PVMT	PAVEMENT	<b>—</b>	BOUND
BOTTOM OF WALL/BACK OF	FG	GROUND FINISH GRADE	PVC	POLYVINYL CHLORIDE	CB	
WALK ,	FH	FIRE HYDRANT	R	RADIUS	_	CAICH
CURB & GUTTER	FL	FLOW LINE	RW	RETAINING WALL	4 . 4 . 4 . 5 .	CONCR
CENTERLINE	G	GARAGE SLAB	R/W	RIGHT OF WAY		CONTO
CHAIN LINK FENCE		ELEVATION/GAS LINE	SD	STORM DRAIN		
SANITARY SEWER	GM	GAS METER	SE	SLOPE EASEMENT	U	DRAINA
CLEANOUT	INV	INVERT	SS	SANITARY SEWER/LATERAL ·		EASEM
CONCRETE	LIP	LIP OF GUTTER	SSE	SANITARY SEWER		
DRAINAGE INLET	LS	LANDSCAPED AREA		EASEMENT	+101.70	EXISTIN
DRIVEWAY	MAX	MAXIMUM	SW	SIDEWALK	— <u>X</u> X	FFNCF
EASEMENT	МН	MANHOLE	ТС	TOP OF CURB	$\sum$	
ELEVATION	MIN	MINIMUM	TOE	TOE OF BANK	( • )	IREE
ELECTRIC METER	MW	MONUMENT WELL	ΤW	TOP OF WALL		
FLECTRIC OVERHEAD	NTS	NOT TO SCALE	W	WATER	•	IRON F
EDGE OF PAVEMENT	ОН	OVERHEAD	WLK	WALKWAY	GM	GAS M
FXISTING	ΓP	PROPERTY LINE	WM	WATER METER	GV	
	PSE	PUBLIC SERVICE EASEMENT	WV	WATER VALVE	Š	gas v

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![](_page_4_Figure_4.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_16.jpeg)

![](_page_5_Figure_17.jpeg)

# STANDARD BEST MANAGEMENT PRACTICE NOTES

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

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

# **STANDARD EROSION CONTROL NOTES**

1. Sediment Control Management

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

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

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

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

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

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

# Information Project

BMP-1

![](_page_5_Picture_54.jpeg)

![](_page_6_Figure_0.jpeg)

![](_page_6_Figure_1.jpeg)

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	ABBR		5				CIVIL SYMBOL			GENERAL SHEET N	JIES	
Ø	DIAMETER	MAX MEP	MAXIMUM MECHANICAL/ELECTRICAL/PLUMBING	SURVE	EY TOPO AND SI	ITE IMPR	OVEMENTS	A	NNOTATION	1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET AP CIVIL DRAWINGS, REFER TO OTHER DISCIPLINES F	PLY ONLY TO THE OR APPLICABLE	⊢
	AGGREGATE BASE ABANDONED	MH MIN	MANHOLE MINIMUM	6" CL	JRB & GUTTER	SDLO 🔿	STORM DRAIN CLEANOUT	1 KEYNOTE		ABBREVIATIONS AND SYMBOLS NOT PROVIDED HE 2. THIS IS A STANDARD ABBREVIATION AND LEGEND	RE. SHEET, THEREFORE,	Ш Ц
	ACRE, ASPHALT CONCRETE ASBESTOS CEMENT PIPE ASBESTOS CONTAINING MATERIAL	MIPT MJ MPVC	MALE IRON PIPE THREAD MECHANICAL JOINT MIDPOINT OF VERTICAL CURVE	EDGE	E OF AC PAVEMENT	ΛE	ELECTRIC VAULT COVER	(1) DEMOLITION NOTE		SOMEABBREVIATIONS AND LEGEND SYMBOLS MAY SHEET AND MAY NOT BE UTILIZED ON THIS PROJEC	CAPPEAR ON THIS CT.	
AD AGG	AREA DRAIN AGGREGATE	MON	MONUMENT	6" VE	ERTICAL CURB	РВ	PULL BOX		SECTION	<ol> <li>JOINOT SCALE DRAWINGS.</li> <li>ALL WORK AND MATERIALS SHALL BE IN FULL ACC CURRENTLY REQUIRED VERSION OF THE FOLLOW!</li> </ol>	ORDANCE WITH THE	N N
ALGN ARV	ALIGNMENT AIR RELEASE VALVE	N (N)	NORTHING COORDINATE NEW	DW DOMI	ESTIC WATER MAIN	HVE	HIGH VOLTAGE ELECTRIC	NUMBER	LETTER	4.1. CALIFORNIA BUILDING CODE 4.2. CALIFORNIA PI UMBING CODE	NG CODE.	
ASB ASPH	AGGREGATE SUBBASE ASPHALT	NĆ NIC	NORMALLY CLOSED NOT IN CONTRACT	E ELEC		T		C-501	C-301	4.3. CALIFORNIA MECHANICAL CODE 4.4. CALIFORNIA ELECTRICAL CODE		
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BEG BFP	BEGIN BACK FLOW PREVENTER			G GAS		JP			SECTION APPEARS SECTION INDICATOR	5. NOTHING ON THE ENCLOSED DRAWINGS IS TO BE REQUIRING OR PERMITTING WORK THAT IS CONTR	CONSTRUED AS ARY TO THE CODES,	Ŭ
BLDC BLDG	BUILDING CORNER BUILDING	OHE O.R.	OVERHEAD ELECTRIC OFFICIAL RECORDS		GATION LINE		STREETLIGHT			ORDINANCES, OR REGULATIONS DESCRIBED ABOV 6. ANY DEVIATIONS FROM THE PROPOSED PLANS SH	E. ALL BE DISCUSSED	
BOD	BOTTOM OF DOCK	(P)	PROPOSED	ОН OVEF	RHEAD WIRES	/\	ELECTROLIER	SI		FIELD.	CHANGES IN THE	
BSW BVC	BACK OF SIDEWALK BEGIN VERTICAL CURVE	PA PB	PLANTER AREA PULL BOX	OHE OVEF	RHEAD ELECTRIC		TRAFFIC SIGNAL	Bear Creek Redwoods				
BW	FINISHED GRADE AT BOTTOM OF WALL	PCC	POINT OF COMPOUND CURVATURE PORTLAND CEMENT CONCRETE	OVER	RHEAD TELEPHONE	O <sub>TS</sub>	TRAFFIC SIGNAL	Open Space Preserve				
C CB	CONCRETE OR CIVIL CATCH BASIN	PE PED	PLAIN END PEDESTRIAN	RW RECY	YCLED WATER	$\frown$	PEDESTRIAN LIGHT	Temporarily closed				
C&G CG&S/W	CURB AND GUTTER CURB, GUTTER & SIDEWALK	PERF PH	PERFORATED POTHOLE	SS SANI'	ITARY SEWER LINE	$\propto$	PEDESTRIAN PUSH BUTTON	<sup>™</sup> O Tinh Uyến	Lexington	WASTEWATER SHEETS	6	HV HV 33
CI CIP	CAST IRON OR CURB INLET CAST IRON PIPE	PID PIV	POINT ID POST INDICATOR VALVE	SD STOP	RM DRAIN LINE	O DET	CROSSWALK DETECTOR	Jacob -		NO SHEET TITI	F	n S 10 50 96
	CENTERLINE CLEAR CONTROLLED LOW-STRENGTH MATERIAL	PL PM PMH	PROPERTY LINE PARKING METER POWER MANHOLE	SL STRE		SL	STREET LIGHT PULLBOX		22107 Old Santa			-00 Cr
CMN	COMMUNICATION CORRUGATED METAL PIPE	PO	PUSH-ON POINT ON CURVE				SIGN (AS NOTED)		Cruz Highway, Los	1 WW 1 COVER SHEET		& oje
CO CONC	CLEAN OUT CONCRETE	POI PP	POINT OF INTERSECTION POWER POLE				THRUST BLOCK		PROJECT	2 WW 2 EXISTING SITE LAYOUT		Pr Pr 95
CONST CONF	CONSTRUCTION OR CONSTRUCT CONFORM TO EXISTING	PRC PRV	POINT OF REVERSE CURVATURE PRESSURE REDUCING VALVE	w WAT				N	SITE	3 WW 3 WASTEWATER SYSTEM		as lent old C/C/C/C/C/C/C/C/C/C/C/C/C/C/C/C/C/C/C/
CSC CU	CITY OF SANTA CLARA CUBIC	PRUE PT	PRIVATE UTILITY EASEMENT POINT OF TANGENCY	UGE UNDE	ERGROUND ELECTRIC		BUTTERFLY VALVE	A Tony Do				-08
CY D-		PUE PVC	POBLIC UTILITY EASEMENT POLYVINYL CHLORIDE PIPE		NCH DRAIN		DEMO			4 WW 4 DETAILS	SCHEMATIC AND	0V6 58
D- DCDA DEMO	DOUBLE CHECK DETECTOR ASSEMBLY	R R=	RIGHT RADIUS (CURVE)	META	AL BEAM GUARD RAIL		WELL		PART P	5 WW 5 WASTEWATER SYSTEM	SPECIFICATIONS	Ch 22 22 5 5
DEPT	DEPARTMENT DETAIL	RC RCP	RELATIVE COMPACTION REINFORCED CONCRETE PIPE	— • — • • – SILT	FENCE	$\overline{\Box}$	PUMP	SIT	<b>FE LOCATION</b>			en Im PN
DI DIA	DROP INLET, DUCTILE IRON DIAMETER	RJ RP	RESTRAINED JOINT RADIUS POINT	— × —— × – CHAI	IN LINK FENCE	) M	BALL VALVE	NT				AI AI
DIP DOM	DUCTILE IRON PIPE DOMESTIC	RPBFP RPPA R	REDUCED PRESSURE BACKFLOW PREVENTER EDUCED PRESSURE PRINCIPLE ASSEMBLY	FLOV	W LINE		ACTUATED BALL VALVE		Car	PROJECT DESIGN AND OPER	ATION NOTES	Pa. 19 Lc
DW DWG	DOMESTIC WATER DRAWING	RSC RW	RECEIVING AND SUPPORT CENTER RECYCLED WATER	# CON <sup>-</sup>	TOUR ELEVATION LINE	$\mathbb{A}$	SOLENOID VALVE		Cruz Highway, Los	DESIGN FLOWS, VOLUMES, AND TREATME FACILITY TYPE: RESIDENTIAL	<u>NT</u>	52
E	EASTING COORDINATE, ELECTRIC	R/W, ROW		CEN1	TER LINE	Ŕ	AIR/VACUUM BREAKER		18 mm drive - home	UNIT FLOW BASIS: # OF BEDROOMS # OF UNITS: (N) 3 BEDROOM + 1 OFFICE EQUIV. SFD + LEGALI. DESIGN ELOWS: 675 CPD	ZE (E) 1 BEDROOM ADU	
EG EG EL ELEV	EXISTING GRADE	S S.A.D. SD	SEE ARCHITECTURAL DRAWINGS	PROF		$\bowtie$	PRESSURE REGULATOR	Patchen Cali	formia PRO IECT	TREATMENT CATEGORY: CONVENTIONAL TANK WITH ALTERNATIVE DISPOS NEW SEPTIC TANK VOLUME: 1,500 GALLONS AT F	AL (PRESSURE DOSED LEACHFIELDS)	S ND
ELEC EP	ELECTRICAL EDGE OF PAVEMENT	SDCB SDI	STORM DRAIN CATCH BASIN STORM DRAIN INLET				SSD FILTER		SITE	NEW PUMP TANK VOLUME: 1,500 GALLO TOTAL HYDRAULIC VOLUME OF TREATMENT SYSTEM: WASTEWATER STRENGTH: DOMESTIC RESIDENTIA	N 3,000 GALLONS L STRENGTH	
EVA EX,EXIST	EMERGENCY VEHICLE ACCESS , EXISTING	SDMH SDCO	STORM DRAIN MANHOLE STORM DRAIN CLEANOUT	$- \frac{\text{TC } 24.52}{\text{FG}}$				Patchen Old Town		DOMESTIC STRENGTH DEFINITION: <220 MG/L BOD, <60 MC	G/L TSS, <60 MG/L TN	
(E)		S.E.D. SF	SEE ELECTRICAL DRAWINGS SILT FENCE		FACE DRAINAGE SLOPE	-=< [2]		Christmas free Farm	==	SOIL TESTING RESULTS AND DISPOSAL DE SITE SOIL PROFILES (TEST PITS):	SIGN	し
(F) FA	FUTURE FIRE ALARM	SG SHLDR	SUBGRADE SHOULDER	x 95.94 5 SPOT	T ELEVATION	$\bigcirc$	PRESSURE GAUGE	d Sant		ON JULY 7, 2017, THE COUNTY OF SANTA CLARA DEPARTMENT OF EL OBSERVED FOUR (4) TEST PITS ON THE SUBJECT PROPERTY (2 PER ORIGIN	NVIRONMENTAL HEALTH (DEH) AL LOT, WHICH ARE TO BE COMBINED	
F/C,FC FD FDC	FACE OF CORB FOUND FIRE DEPARTMENT CONNECTION	SHI SL SLD	SHEET STREETLIGHT SEE LANDSCARE DRAWINGS	✓ <sup>G</sup> ————————————————————————————————————	DE BREAK	Ć	PRESSURE SWITCH	4 Crut		AREA AND ARE PROVIDED ON THE PROJECT DESIGN PLANS. THE RESULTS A THE PROJECT FEASIBILITY REPORT.	RE PRESENTED IN ATTACHMENT 1 OF	<b>_</b>
FF,FFE FG	FINISHED FLOOR ELEVATION FINISH GRADE	S.E.D. SMH S.M.D	SIGNAL MANHOLE SEE MECHANICAL DRAWINGS	LIMIT	OF WORK/GRADING		FLOAT VALVE	And	Shway	TO GET A BETTER REPRESENTATION OF THE SOILS IN WHICH THE SYSTEM PITS WERE EXCAVATED CLOSER TO THE PROPOSED DISPOSAL AREA ENGINEERING AND DELL OPSERVED THE SOIL CHARACTERISTICS OF T	VILL BE INSTALLED, ADDITIONAL TEST ON NOVEMBER 29, 2022, MYER	<u> </u>
FH FIPT	FIRE HYDRANT FEMALE IRON PIPE THREAD	S.P.D SS	SEE PLUMBING DRAWINGS SANITARY SEWER		GATION BOX			"It Ra	Old Santa Cruz Av NestIdown Therapeutic Riding Center	EXCAVATED TO DEPTHS OF 10.0', 6.0', AND 6.5' BELOW GROUND LEVEL (BGL ARE PROVIDED ON THE PROJECT DESIGN PLANS. THE FOLLOWING SC	). THE LOCATIONS OF THE TESTS PIT DIL PROFILES WERE OBSERVED:	
FL FLG	FLOW LINE, FLANGE FLANGE	S.S.D. SSD	SEE STRUCTURAL DRAWINGS SUBSURFACE DRIP	GM GAS	METER				Melody Lo	TEST PIT 5 (MYER TP-1) LOCATED ON APN:558-08-096 ELEVATION 0'- 16" BGL: LOOSE DARK BROWN SANDY L 16"- 3 0' BGL: DARK BROWN LOAM: MORE COMPACT	N 1,520' ABOVE SEA LEVEL DAM THAN ABOVE	RIN( Ser N RE 073 19.cc
FM FOUND	FLOWMETER/FORCE MAIN FOUNDATION	SSCO SSFM	SANITARY SEWER CLEANOUT SANITARY SEWER FORCE MAIN	GAS Y	VALVE			<u>\@/{</u>		3.0'- 8.0' BGL: BROWN SANDY LOAM 8.0'- 8.5' BGL: MOTTLED SANDSTONE		EEF GLE GLE N 956 N 956
FS FT FW	FINISHED SURFACE FOOT, FEET FIRE WATER	SSMH SSPS	SANITARY SEWER MANHOLE SANITARY SEWER PUMP STATION					PROJE	CT DESCRIPTION	8.5'- 10.0' BGL: MOTTLED SANDY LOAM END DIG AT 10.0'. GROUNDWATER WAS NOT ENC TEST PIT 6 (MYER TP-2) I OCATED ON APN:558-08-095 FI EVATION	DUNTERED	GIN B Con B
G	GAS, GROUND ELEVATION	STD STL	STANDARD STEEL	Watt	ER METER OR BEP			GEN	ERAL: (N) SEPTIC SYSTEM	0'- 12" BGL: LOOSE DARK BROWN SANDY L 12"- 3.0' BGL: DARK BROWN CLAY LOAM	DAM I	LAUF AUE B31) nyer
GB GI	GRADE BREAK GALVANIZED IRON	S/W SVP	SIDEWALK SILICON VALLEY POWER		HYDRANT			BASIS: (	N) SFD AND LEGALIZE (E) ADU	5.0'- 6.0' BGL: BROWN CLAY LOAM 5.0'- 6.0' BGL: DAMP SANDY LOAM (MOTTLED END DIG AT 6.0'. GROUNDWATER WAS NOT ENCO	AT 6') DUNTERED	T/ER 1 Engi 796 L 200 SOO
GRD, G GV	GROUND GATE VALVE	Т	TELEPHONE	FIRE	DEPARTMENT CONNECT	TION		JUSTIFICATION FOR DESIGN S NOTES ON THIS S	SUMMARY (SEE PROJECT DESIGN AND OPERATION SHEET FOR ADDITIONAL INFORMATION):	TEST PIT 7 (MYER TP-3) LOCATED BETWEEN TWO PARCELS I 0'- 3.0' BGL: LOOSE BROWN SANDY LOA	NEAR PROPERTY LINE. M	
HMA	HOT MIX ASPHALT	TC TD	TOP OF CURB TRENCH DRAIN	WATE	ER TAPPING SADDLE			THE SITE SOILS WITHIN THE PRO	OPOSED DISPOSAL AREA GENERALLY CONSIST OF	4.0'- 6.5' BGL: SANDY LOAM TRANSITIONING TO SANDY LOAM MOTTLING AT 6' END DIG AT 6.5'. GROUNDWATER WAS N	G FRACTURED SANDSTONE WITH DT ENCOUNTERED	₹N
HORIZ HT	HORIZONTAL HEIGHT HIGH DOINT	TEL TEMP			ER MANHOLE			DARK BROWN SANDY LOAM TO A SANDY CLAY LOAM WITH FRACT	A DEPTH OF APPROXIMATELY 3' BGL, UNDERLAIN BY FURED SANDSTONE AND MOTTLING FROM 6' TO	SITE PERCOLATION TEST:		
INV	INVERT	ТНК	THICK TOP OF DOCK	© SEWE	ER CLEANOUT			8'BGL, OVER A LAYER OF SANDY GROUNDWATER WAS NOT ENCO	Y CLAY LOAM TO A DEPTH OF AT LEAST 10'. DUNTERED HOWEVER MOTTLING AND INDICATORS	TEST HOLE #1 (P-1): DEPTH = 2.0', RATE = 120 MPI X TEST HOLE #2 (P-2): DEPTH = 3.0', RATE = 34.2 MPI X	1.4 = 168 MPI 1.4= 47.88 MPI	SPROFESSION P
INST	INSTALL IRRIGATION	TOE TW.TOW	TOE OF SLOPE TOP OF WALL	O SEWE	ER LAMP HOLE			AVERAGE STABILIZED PERCOLA	ATION RATE IN THE UPPER 3' OF SOIL WAS 62 MPI	TEST HOLE #3 (P-3): DEPTH = 3.0', RATE = 34.2 MPI X TEST HOLE #4 (P-4): DEPTH = 3.0', RATE = 9.6 MPI X TEST HOLE #5 (P-5): DEPTH = 2.0', RATE = 8 MPI X 1	1.4 = 47.88 MPI .4 = 13.44 MPI 4 = 11.2 MPI	A T T T
JP	JOINT POLE	TS TYP	TOP OF SLAB TYPICAL		ER VENT			THE CLAY LOAM UPPER SITE SO MYER ENGINEERING RECOMMEN	DILS. HOWEVER, NDS INSTALLATION OF THE DISPOSAL SYSTEM SET	TEST HOLE #6 (P-6): DEPTH = 3.0', RATE = 60 MPI X AVERAGE ADJUSTED STABILIZED RATE = 62	1.4 = 84 MPI 2 MPI	
JT	JOINT TRENCH	UON	UNLESS OTHERWISE NOTED	SDMH STOF	RM DRAIN MANHOLE			BACK AT LEAST 15' FROM THE S TEST HOLE P-1. THE AVERAGE S	SLOWER SOILS ENCOUNTERED IN PERCOLATION STABILIZED PERCOLATION RATE IN THE UPPER 3' OF	AVERAGE ADJUSTED STABILIZED RATE, EXCLUDING DESIGN AREA APPLICATION RATE: 0.8 GPL	P-1 = 40.8 MPI	
L L=		U/G		Св САТС	CH BASIN			SOIL, EXCLUDING THE SLOWER	SOIL RATES FOUND ADJACENT TO P-1 WAS 40.8 MPI REMENTS FOR GROUNDWATER SEPARATION, MYER	REQUIRED EFFECTIVE LEACHING AREA: 900 DESIGN PRIMARY EFFECTIVE LEACHING AREA	SF X 2 : 900 SF	TE OF CALIFOR
LF LAT LIP	LINEAR FEET LATERAL LIP OF GUTTER		VERTICAL CURVE					ENGINEERING RECOMMENDS IN PRESSURE DOSED SAND TRENC	ISTALLATION OF AN ALTERNATIVE INCLUDING CH LEACHFIELDS INSTALLED TO A MAXIMUM DEPTH	DESIGN SECONDARY EFFECTIVE AREA: 90 DESIGN TRENCH GEOMETRY: 6 X 3'W X 3'D (2' EFFEC MAX EFFECTIVE AREA/LF: 3SF/LF	CTIVE) X 100'L	Drawn By Checked By PEM PEM
LP LPFH	LIGHT POLE, LOW POINT FIRE HYDRANT	WM WM	WATER METER WATER VALVE		NAGE INLET			OF 3' BGL.		WATER SUPPLY: PRIVATE WELL		Project No. Scale 202162 AS SHOWN
LS LSA	LANDSCAPE LANDSCAPE ARCHITECT	WWF W/	WELDED WIRE FABRIC WITH							OWNER IS RESPONSIBLE FOR GENERAL OPERATION AND MAINTENANC	E OF THE WASTEWATER SYSTEM	Date SEP 2023
MA	MEDICAL AIR	YDS	YARDS							THE SEPTIC/WASTEWATER SYSTEM SHALL BE INSTALLED BY A C	UALIFIED PROFESSIONAL.	Sheet No.
												\\/\/
											No Revision/Issue	

![](_page_8_Figure_0.jpeg)

	EXISTING SITE LAYOUT	
	Patchen Christmas Tree Farm Site Improvement Project 22199 and 22197 Old Santa Cruz HWY Los Gatos CA 95033 APN: 558-08-095 & -096	
	CLIENT JIM BECK AND KELLEY FREDERICKS	
	MYER ENGINEERING, INC. Civil Engineering Consulting Services PAUL MYER, MS, PE 1796 LAUREL GLEN RD. SOQUEL, CA 95073 (831) 800-2244 paul@myerengineering.com	
0 20' 40' SCALE: 1" = 20' @ 24"X36"	Drawn By PEM PEM Project No. Date SEP 2023 Sheet No.	
No. Revision/Issue Date	2 OF 5	

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_0.jpeg)

#### GENERAL SPECIFICATIONS

#### THE FOLLOWING SPECIFICATIONS ARE FOR THE INSTALLATION OF THE ENHANCED WASTEWATER TREATMENT SYSTEM AT THE LOCATION SPECIFIED IN THE BORDER OF THESE DESIGN PLANS. THE ACCOMPANIED PLANS PRESENT THE GENERAL LAYOUT, PLUMBING CONFIGURATION, AND CONSTRUCTION DETAILS.

#### MATERIAL SPECIFICATIONS

THE FOLLOWING ARE MATERIAL SPECIFICATIONS FOR THE WASTEWATER SYSTEM COMPONENTS. ALL MATERIALS USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AND AS DESCRIBED IN THE ACCOMPANIED PLANS OR AN ENGINEER APPROVED EQUIVALENT.

#### SUBSURFACE TANKS

INSTALLATION.

THE SUBSURFACE TANKS INCLUDE THE 1,500 GALLON CONCRETE WATER-TIGHT SEPTIC TANK (TREATMENT TANK) AND THE 1,500 GALLON CONCRETE WATER-TIGHT PUMP TANK.

.1. DIMENSIONS, FITTING SIZES AND LOCATIONS, AND OPTIONAL ACCESSORIES SHALL BE INCLUDED AS SHOWN ON TANK DRAWINGS. THE TANK SHALL BE WATERTIGHT AND TESTED IN THE FIELD AFTER

1.2. PRODUCT STORAGE. THE SUBSURFACE TANKS SHALL BE CAPABLE OF STORING SEPTAGE LIMITED TO THE COLLECTION AND STORAGE OF HUMAN SOLID OR LIQUID ORGANIC WASTE.

1.3. PIPING. SDR35 PVC PIPE, SCHEDULE 40 PVC PIPE, OR ABS PIPE SHALL BE USED FOR INLET AND OUTLET PIPING AS SHOWN ON DRAWINGS. ALL PIPING SHALL BE FACTORY SEALED TO ENABLE FIELD TIGHTNESS TESTING WITH AT LEAST ONE PIPE OPENING PROVIDED WITH A THREADED FITTING FOR CONNECTING A PRESSURE TEST MANIFOLD

1.4. ACCESS OPENINGS. ALL ACCESS OPENINGS SHALL BE 30 INCHES IN DIAMETER OR LARGER AS SHOWN ON THE PLANS, SHALL BE MANUFACTURED OF FIBERGLASS, CONCRETE OR CAST IRON WITH RESPECT TO SPECIFIED TRAFFIC RATING. LOCATIONS SHALL BE AS SHOWN ON TANK DRAWINGS. EACH MANHOLE SHALL HAVE A WATERTIGHT RISER TO FINISH GRADE.

1.5. RISERS. RISERS SHALL BE REQUIRED FOR ACCESS TO INTERNAL VAULTS AND ACCESS INTO THE TANKS FOR SEPTAGE PUMPING. ALL RISERS SHALL BE CONSTRUCTED WITH WATERTIGHT SEALS PROVIDED. RISERS SHALL BE A MINIMUM OF 30" IN NOMINAL DIAMETER WHEN THE DEPTH OF BURY IS 36" OR GREATER. TO ENSURE PRODUCT COMPATIBILITY, RISERS, LIDS, AND ATTACHMENT COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER AND, WHERE APPLICABLE, SHALL BE FACTORY EQUIPPED WITH THE FOLLOWING:

1.5.1. ADHESIVE. WHEN BONDING TO THE RISER RINGS, AN EPOXY PROVIDED BY THE MANUFACTURER SHALL BE USED. ADHESIVES AND SEALANTS SHALL BE WATERPROOF. CORROSION RESISTANT, AND APPROVED FOR THE INTENDED APPLICATION. THE RISER-TO-TANK CONNECTION SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. THE RISER-TO-TANK CONNECTION SHALL BE CAPABLE OF WITHSTANDING A VERTICAL UPLIFT OF 5,000 POUNDS TO PREVENT RISER SEPARATION DUE TO TANK SETTLEMENT, FROST HEAVE, AND VEHICLE TRAFFIC OVER THE TANK.

1.5.2. LIDS. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE WATERPROOF, CORROSION RESISTANT, AND UV RESISTANT. LIDS SHALL BE FLAT, WITH NO NOTICEABLE UPWARD DOME. LIDS SHALL NOT ALLOW WATER TO POND ON THEM. LIDS SHALL FORM A WATERTIGHT SEAL WITH THE TOP OF RISER. TRAFFIC-RATED LIDS SHALL BE CAPABLE OF WITHSTANDING A TRUCK WHEEL LOAD (36 SQUARE INCHES) OF 2500 POUNDS FOR 60 MINUTES WITH A MAXIMUM VERTICAL DEFLECTION OF 1-1/2". LIDS SHALL BE PROVIDED WITH TAMPER-RESISTANT STAINLESS STEEL FASTENERS AND A TOOL FOR FASTENER REMOVAL. TAMPER-RESISTANT FASTENERS INCLUDE RECESSED DRIVES, SUCH AS HEX, TORX, AND SQUARE. FASTENERS THAT CAN BE REMOVED WITH COMMON SCREWDRIVERS, SUCH AS SLOTTED AND PHILLIPS, OR FASTENERS THAT CAN BE REMOVED WITH STANDARD TOOLS, SUCH AS PLIERS OR CRESCENT WRENCHES, ARE NOT CONSIDERED TAMPER-RESISTANT. TO PREVENT A TRIPPING HAZARD, FASTENERS SHALL NOT EXTEND ABOVE THE SURFACE OF THE LID.

1.5.3. RISER INSTALLATION. RISER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

#### PIPING AND FITTINGS

THE TYPE OF PIPE MATERIALS AND FITTINGS SHALL BE AS DESIGNATED ON THE PLANS AND SHALL COMPLY WITH THE FOLLOWING:

#### 2.1. FITTINGS AND COUPLINGS

THE FITTINGS AND COUPLINGS FOR PVC PIPES SHALL BE THREADED OR SLIP-FITTED TAPERED SOCKET SOLVENT WELD. THREADED ADAPTERS SHALL BE PROVIDED WITH SOCKET PIPE FOR CONNECTIONS TO THREADED PIPE

#### VALVES

#### 3.1. GENERAL

VALVES SHALL BE OF THE SIZE, TYPE, AND CAPACITY DESIGNATED ON THE PLANS OR IN THE SPECIFICATIONS AND SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN. ALL VALVES ON PRESSURIZED PORTIONS OF THE SYSTEM SHALL BE CAPABLE OF SATISFACTORY PERFORMANCE AT WORKING PRESSURE OF 150 PSI. ALL VALVES ON GRAVITY PORTIONS OF THE SYSTEM SHALL BE RATED FOR AT LEAST TWICE THE ESTIMATED STATIC HEAD ABOVE THE VALVE. VALVES SHALL BE DESIGNED TO PERMIT DISASSEMBLY TO REPLACE SEALING COMPONENTS WITHOUT REMOVAL OF THE VALVE BODY FROM THE PIPELINE, SUCH AS TRUE UNION BALL VALVES AND CHECK VALVES.

#### I. PUMP SYSTEMS

ALL PUMP SYSTEMS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.

#### ADDITIONAL COMPONENTS

ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.

#### b. LEACHFIELDS

HE LEACHFIELD SYSTEM SHALL PROVIDE ADDITIONAL TREATMENT AND DISPOSAL OF THE WASTEWATER. THE SYSTEM SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

#### 6.1. CLEAN DRAIN ROCK

THE DRAIN ROCK SHALL BE LOCATED AS SHOWN IN THE ACCOMPANYING PLANS. THE ROCK SHALL BE CLEAN, DOUBLE WASHED GRAVEL RANGING FROM 3/4"Ø TO 1-1/2"Ø WITH FINES LESS THAN 1%.

# 6.2. FILTER FABRIC THE FILTER FABRIC SHALL BE PLACED ON TOP OF THE GRAVEL ROCK BED. THE FABRIC SHALL BE A

GEOTEXTILE SYNTHETIC FILTER FABRIC SUCH AS MIRAFI 1100N, DUPONT TYPAR (4 OR 6 OZ/SQ YD), OR APPROVED EQUIVALENT. THE FABRIC SHALL COVER AN AREA SUCH THAT IT EXTENDS 1 FOOT BEYOND THE TRENCH IN EACH DIRECTION.

#### 6.3. SOIL COVER

THE SOIL COVER SHALL BE PLACED OVER THE LEACHFIELDS TO REDUCE EROSION AND SLOPE INSTABILITY. THE SOIL SHALL BE A SANDY LOAM TO INCREASE THE POTENTIAL FOR AIR THROUGH THE DEPTH OF THE SOIL. THE SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION IN LANDSCAPE AREAS AND 95% RELATIVE COMPACTION IN DRIVEWAYS AND ROADWAYS.

#### 6.4 SAND PLEASE SEE THE SAND SPECIFICATION PROVIDED ON THE DETAILS SHEET OF THIS PLAN SET.

# CONSTRUCTION SPECIFICATIONS

THE CONSTRUCTION OF THE PROJECT SHALL CONFORM TO THE PLANS AND FOLLOWING SPECIFICATIONS. ALL NECESSARY CONSTRUCTION PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ALL SITE WORK.

#### PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH THE ENGINEER AND OWNER AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF SITE WORK. THE ENGINEER SHALL BE CONTACTED 48 HOURS PRIOR TO THE MEETING CONFERENCE. THE MEETING SHOULD BE CONDUCTED TO REVIEW THE DESIGN, MATERIAL, AND CONSTRUCTION SPECIFICATIONS. ALL CONTRACTOR PROPOSED REVISIONS IN THE DESIGN SHALL BE APPROVED BY THE ENGINEER. THE INSTALLATION MUST BE INSPECTED BY THE ENGINEER FOR CONFORMANCE TO THE DESIGN.

#### . STAKING

THE CONTRACTOR WILL PROVIDE SUFFICIENT HORIZONTAL AND VERTICAL CONTROL FOR INSTALLATION OF THE WORK AT DATUM POINTS NECESSARY TO ESTABLISH ALIGNMENT AND GRADE. THE PROTECTION AND CARE OF THE STAKES ONCE SET, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

#### EXCAVATION

ALL EXCAVATION WORK SHALL BE MADE TO THE LINES, GRADES AND DIMENSIONS SHOWN IN THE

#### ACCOMPANIED PLANS. EXCAVATIONS SHALL BE PERFORMED IN THE DAY AND IN A MANNER THAT MINIMIZES EROSION. FLOODING AND SEDIMENTATION. EXCAVATED SOILS THAT ARE TO BE STOCKPILED ON-SITE SHALL BE PLACED IN A LOCATION AND MANNER THAT MINIMIZES EROSION AND CONTROLS SEDIMENTATION.

THE CONTRACTOR SHALL TAKE EXTRA PRECAUTION WHERE EXCAVATION EQUIPMENT MAY ENCOUNTER EXISTING UNDERGROUND UTILITIES AND OTHER FACILITIES OF ANY NATURE. CONTRACTOR SHALL PERSON HIS OPERATION IN SUCH A MANNER AND SHALL EXERCISE THE GREATEST OF CARE SO AS NOT TO INJURE IN ANY MANNER EXISTING UNDERGROUND UTILITIES, MAINS OR FACILITIES OF ANY NATURE. SHOULD THE CONTRACTOR INJURE, BREAK OR DAMAGE EXISTING UNDERGROUND UTILITIES, MAINS, OR FACILITIES OF ANY NATURE IN ANY MANNER, THEY SHALL REPAIR THE SAME AT THEIR OWN EXPENSE. IF IT DOES NOT APPEAR FEASIBLE THAT THE CONTRACTOR CAN MAKE NEEDED REPAIRS, THEN SUCH REPAIRS SHALL BE MADE BY THE OWNER AND THE CONTRACTOR SHALL BE CHARGED FOR SUCH REPAIRS.

### 4. POLLUTION CONTROL

4.1. WATER POLI UTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PERMITTING REQUIREMENTS RELEVANT TO THE CONSTRUCTION OF THE PROJECT ARE MET AT ALL TIMES. ACTIONS BY THE CONTRACTOR, THE SUBCONTRACTORS OR EMPLOYEES THEREOF RESULTING IN NONCOMPLIANCE OF PERMITTING REQUIREMENTS MAY BE GROUNDS FOR TERMINATION OF THIS CONTRACT.

#### 4.2. NOISE POLLUTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP NOISE POLLUTION, DUE TO THESE CONSTRUCTION ACTIVITIES, AS LOW AS POSSIBLE.

4.3. SOIL CONTAMINATION THE CONTRACTOR SHALL NOT ALLOW REGULATED MATERIALS TO SPILL ON THE PROJECT SITE. ANY SPILLAGE OR REGULATED MATERIALS RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

# 4.4. STORAGE OF REGULATED MATERIALS

THE STORAGE AND USE OF ANY REGULATED MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY THE REQUIREMENTS OF ANY REGULATORY AGENCY FOR THE STORAGE, MONITORING, USAGE, TRANSPORTATION, SAFETY, REPORTING, OR ANY OTHER REQUIREMENTS REGARDING THE MANAGEMENT OF REGULATED MATERIALS ON AND OFF THE PROJECT SITE.

# 5. SITE WORK

5.1. MOBILIZATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATORY WORK AND PLACEMENT OF MATERIALS IN A STAGING AREA REQUIRED FOR CONSTRUCTION OPERATIONS INCLUDING, BUT NOT LIMITED TO, THOSE NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE: FOR THE ESTABLISHMENT OF FACILITIES NECESSARY FOR WORK ON THE PROJECT; PROVIDING POLLUTION CONTROL MEASURES; AND FOR ALL OTHER WORK AND OPERATIONS WHICH MUST BE PERFORMED.

#### THE CONTRACTOR SHALL PROVIDE MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR PROPER COMPLETION OF THE WORK OF THIS SECTION, AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE COUNTY.

# 5.2. CLEARING AND GRUBBING

CLEAR THE SITE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION. CLEARING AND GRUBBING SHALL CONSIST OF ALL WORK INCLUDING, BUT NOT LIMITED TO, SALVAGED MATERIALS REMOVAL, PROVIDING AND INSTALLING TEMPORARY EROSION CONTROL, AND PLACEMENT OF TREES, TREE BRANCHES, TREE STUMPS, BRUSH, ROOTS, BOULDERS, SHRUBS, SEDIMENT, AND ALL OBJECTIONABLE MATERIALS IN AN AGREED UPON LOCATION ADJACENT TO THE WORK SITE.

#### EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

ALL WASTES DISPOSAL SHALL BE CONDUCTED AS FOLLOWS:

- A. REMOVE WASTE FROM CLEARING OPERATIONS. B. DISPOSE OF AWAY FROM THE SITE IN A LEGAL MANNER.
- C. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE JOB SITE.
- D. DO NOT BURN DEBRIS AT THE SITE.
- 6. DELETERIOUS MATERIALS

#### MATERIALS CONTAINING AN EXCESS OF 5% (BY WEIGHT) OF VEGETATION OR OTHER DELETERIOUS MATTER MAY BE UTILIZED IN AREAS OF LANDSCAPING OR OTHER NON-STRUCTURAL FILLS. DELETERIOUS MATERIAL INCLUDES ALL VEGETATIVE AND NON-MINERAL MATTER, AND ALL NON-REDUCIBLE STONE, RUBBLE AND/OR MINERAL MATTER OF GREATER THAN 6 INCHES.

#### 7. UTILITY TRENCHES

- A. A SELECT. NONCORROSIVE. GRANULAR. EASILY COMPACTED MATERIAL SHOULD BE USED AS BEDDING AND SHADING IMMEDIATELY AROUND UTILITY PIPES. THE SITE SOILS MAY BE USED FOR TRENCH BACKFILL ABOVE THE SELECT MATERIAL. IF OBTAINING COMPACTION IS DIFFICULT WITH THE SITE SOILS, USE OF A MORE EASILY COMPACTED SAND MAY BE DESIRABLE. THE UPPER FOOT OF BACKFILL IN LANDSCAPED OR OTHER OPEN AREAS SHOULD CONSIST OF NATIVE MATERIAL TO REDUCE THE
- POTENTIAL FOR SEEPAGE OF WATER INTO THE BACKFILL. B. TRENCH BACKFILL IN THE UPPER 12 INCHES OF SUBGRADE BENEATH AREAS TO RECEIVE PAVEMENT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY. TRENCH BACKFILL IN OTHER AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY. JETTING OF UTILITY TRENCH BACKFILL SHOULD NOT BE ALLOWED.

#### 8. PIPE INSTALLATION

8.1. GENERAL PIPE SHALL BE JOINED BY SOCKET TYPE SOLVENT-WELDED FITTINGS OR THREADED FITTINGS. PLASTIC PIPE SHALL BE CUT SQUARE, EXTERNALLY CHAMFERED APPROXIMATELY 10 TO 15 DEGREES, AND ALL BURRS AND FINS REMOVED. SOLVENT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2855. THE SOLVENT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.

CARE SHALL BE EXERCISED IN ASSEMBLING A PIPELINE WITH SOLVENT WELDED JOINTS SO THAT STRESS ON PREVIOUSLY MADE JOINTS IS AVOIDED. HANDLING OF THE PIPES FOLLOWING JOINTING, SUCH AS LOWERING THE ASSEMBLED PIPELINE INTO THE TRENCH, SHALL NOT OCCUR PRIOR TO THE SET TIMES SPECIFIED BY THE MANUFACTURER.

SOLVENTS SHALL BE APPLIED TO PIPE ENDS IN SUCH A MANNER THAT NO MATERIAL IS DEPOSITED ON THE INTERIOR SURFACE OF THE PIPE OR EXTRUDED INTO THE INTERIOR OF THE PIPE DURING JOINTING. EXCESS CEMENT ON THE EXTERIOR OF THE JOINT SHALL BE WIPED CLEAN IMMEDIATELY AFTER ASSEMBLY.

#### THREADED PIPE JOINTS SHALL BE MADE USING TEFLON TAPE OR OTHER APPROVED JOINTING MATERIAL. SOLVENT SHALL NOT BE USED WITH THREADED JOINTS. PLASTIC PIPE WHICH HAS BEEN NICKED, SCARRED, OR OTHERWISE DAMAGED SHALL BE REMOVED AND REPLACED. PLASTIC PIPE SHALL BE SNAKED FROM SIDE TO SIDE IN THE TRENCH TO ALLOW 1 FOOT OF EXPANSION AND CONTRACTION PER 100 FEET OF STRAIGHT RUN

THE PIPELINE SHALL NOT BE EXPOSED TO WATER FOR 24 HOURS AFTER THE LAST SOLVENT-WELDED JOINT IS MADE.

#### 8.2 GRAVITY PIPE

GRAVITY PIPE FOR WASTEWATER SHALL PROVIDE 2 FT VERTICAL AND 10 FT HORIZONTAL CLEARANCE FROM WATER LINES, AND SHALL CROSS SUCH LINES AS NEARLY AS POSSIBLE TO 90 DEGREES, IF CROSSING CAN NOT BE AVOIDED.

#### PIPE SLOPES SHALL NOT BE LESS THAN 2% FOR 4"Ø PIPE. PIPES SHALL ENTER AND LEAVE CONNECTIONS AS CLOSE TO PARALLEL AS POSSIBLE, BUT IN NO WAY TO EXCEED AN ANGLE OF 45°. 90° TEE CONNECTIONS ARE NOT ALLOWED.

#### 8.3 GENERAL TRENCHING

EXCAVATION OF PIPE TRENCHES SHALL FOLLOW NEAT AND PARALLEL LINES, WITH TRENCH WIDTH, IN GENERAL, TO BE ONE FOOT, WITH SUCH WIDENING, AS REQUIRED TO PLACE VALVES AND FITTINGS WITH A MINIMUM OF 4 INCH CLEARANCE TO TRENCH WALL. THE TRENCH SHALL BE NO LESS THAN 24 INCHES DEEP, EXCEPT WHEN IT IS NECESSARY, TO AVOID UNDERGROUND OBSTRUCTIONS OR ROCKY CONDITIONS. IN ALL CASES, THE PIPE SHALL BE PLACED ON A BEDDING OF IMPORTED OR NATIVE MATERIAL PROVIDING CONTINUOUS SUPPORT THROUGHOUT ITS LENGTH.

BACKFILL FOR THE PIPE TO THE TOP OF THE PIPE PLUS 4 INCHES SHALL BE SELECTED OR IMPORTED SANDY MATERIAL, FREE OF STONE, CLAY, LIMBS OR OTHER DELETERIOUS MATERIALS IN EXCESS OF 1/2 INCH MAXIMUM DIMENSION, PLACED AND TAMPED AND/OR PADDLED ABOUT THE PIPE TO ENSURE PROPER BEDDING PRIOR TO COMPLETION OF TRENCH FILL. THE REMAINING BACKFILL SHALL BE PLACED AT 90% RELATIVE COMPACTION.

#### 9. FLUSHING AND TESTING

AFTER COMPLETION, ALL PIPELINES SHALL BE THOROUGHLY FLUSHED TO REMOVE DIRT, SCALE, OR OTHER MATERIAL. AFTER FLUSHING, THE LINE SHALL BE PRESSURE TESTED. ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM THE TESTS SHALL BE FURNISHED BY THE CONTRACTOR AND ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR ENGINEER.

THE CONTRACTOR SHALL PERFORM A TEST TO DEMONSTRATE THAT THE TANKS AND BASINS ARE WATER TIGHT. THE INLET AND OUTLET PIPES OF THE TANKS SHALL BE CAPPED AND THE TANKS SHALL BE COMPLETELY FILLED WITH WATER. THE WATER LEVEL SHALL REMAIN CONSTANT FOR MORE THAN 24 HOURS OR DURATION BY THE REVIEWING AGENCY JURISDICTION, WHICHEVER IS GREATER, TO DETERMINE IF IT IS WATER TIGHT.

10. OPERATIONAL TEST

THE PERFORMANCE OF ALL COMPONENTS OF THE SYSTEMS SHALL BE EVALUATED BY THE CONTRACTOR.

DURING THE TEST PERIOD AND AT LEAST 15 DAYS PRIOR TO FINAL INSPECTION, THE SYSTEM SHALL OPERATE SATISFACTORILY DURING SUCH PERIOD. ALL NECESSARY REPAIRS, REPLACEMENTS, AND ADJUSTMENTS SHALL BE MADE UNTIL ALL EQUIPMENT, ELECTRICAL WORK, CONTROLS, AND INSTRUMENTATION ARE FUNCTIONING IN ACCORDANCE WITH THE CONTRACTORS DOCUMENTS OR MANUFACTURER SPECIFICATIONS.

11. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF AS-BUILT DRAWINGS OF THE LAYOUT AND CONSTRUCTION OF THE SYSTEM.

12. OTHER ITEMS

ANY PROCEDURES NOT NOTED OR INCLUDED IN THE ENGINEERING PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION.

13. CONSTRUCTION INSPECTION.

13.1. AT A MINIMUM, INSPECTION OF THE DRIP DISPERSAL SYSTEM INSTALLATION SHOULD INCLUDE THE FOLLOWING. THIS IS IN ADDITION TO INSPECTION WORK REQUIREDFOR THE TREATMENT SYSTEM. JOINT INSPECTION BY THE DESIGNER. CONTRACTOR, AND DEH MAY BE REQUIRED. 13.1.1. PRE-CONSTRUCTION INSPECTION WHERE THE CONSTRUCTION STAKING OR MARKING OF THE DRIP LINES, SUPPLY AND RETURN PIPING, PUMP SYSTEM AND APPURTENANCES IS PROVIDED AND CONSTRUCTION PROCEDURES DISCUSSED;

13.1.2. WATER TIGHTNESS OF EFFLUENT DOSING (PUMP) TANK; DRIP FIELD LAYOUT, PIPING MATERIALS AND INSTALLATION, AND ALL ASSOCIATED VALVES AND 13.1.3. CONNECTIONS;

HYDRAULIC TESTING OF THE DRIP SYSTEM; 13.1.4. 13.1.5. FUNCTIONING AND SETTING OF ALL CONTROL DEVICES; AND

FINAL INSPECTION TO VERIFY THAT ALL CONSTRUCTION ELEMENTS ARE IN CONFORMANCE WITH 13.1.6 THE APPROVED PLANS, SPECIFICATIONS, AND MANUFACTURE RECOMMENDATIONS; ALL INSPECTION WELLS ARE INSTALLED; AND EROSION CONTROL HAS BEEN COMPLETED.

14. MANAGEMENT REQUIREMENTS

14.1. RECOMMENDED MINIMUM PROCEDURES AND FREQUENCY FOR INSPECTION, MAINTENANCE, MONITORING AND REPORTING ACTIVITIES FOR SUBSURFACE DRIP DISPERSAL SYSTEMS ARE OUTLINED IN TABLE DD-2.

15. OPERATING PERMITS (PER SANTA CLARA COUNTY ORDINANCE SECTION B11-92)

15.1. (A) IN ADDITION TO AN INSTALLATION PERMIT, AN OPERATING PERMIT IS REQUIRED FOR ALL ALTERNATIVE OWTS, INCLUDING THOSE INSTALLED IN CONNECTION WITH THE REPAIR OR UPGRADE OF EXISTING OWTS AS WELL AS THOSE FOR NEW CONSTRUCTION. GENERAL REQUIREMENTS PERTAINING TO **OPERATING PERMITS ARE AS FOLLOWS** 

15.1.1. (1) THE OPERATING PERMIT WILL BE ISSUED BY THE DIRECTOR FOLLOWING: A COMPLETION OF CONSTRUCTION OF THE ALTERNATIVE OWTS; B.SATISFACTORY COMPLIANCE WITH THE INSTALLATION PERMIT REQUIREMENTS; AND C.PAYMENT OF APPLICABLE FEES. OPERATING PERMITS ARE NON-TRANSFERABLE.

15.1.2. (2) AFTER INITIAL ISSUANCE, THE OPERATING PERMIT IS REQUIRED TO BE RENEWED PERIODICALLY, THE STANDARD RENEWAL PERIOD BEING ONE YEAR. THE DIRECTOR MAY ESTABLISH CONDITIONS ALLOWING THE TIME PERIOD BETWEEN RENEWALS TO BE EXTENDED FOR CERTAIN TYPES OF OWTS BASED ON A RECORD OF FAVORABLE PERFORMANCE OR OTHER FACTORS WARRANTING A REDUCTION IN SYSTEM OVERSIGHT BY DEH. PROVISIONS FOR ADJUSTING THE OPERATING PERMIT RENEWAL PERIOD SHALL BE PRESCRIBED BY THE DIRECTOR IN THE ONSITE SYSTEMS MANUAL. OPERATING PERMITS MUST ALSO BE RENEWED AT THE TIME OF CHANGE IN PROPERTY OWNERSHIP.

15.1.3. (3) OPERATING PERMITS ARE INTENDED TO SERVE AS THE BASIS FOR VERIFYING THE ADEQUACY OF ALTERNATIVE OWTS PERFORMANCE AND ENSURING ON-GOING MAINTENANCE. PERMIT CONDITIONS SHALL INCLUDE MONITORING AND INSPECTION REQUIREMENTS, PERMIT DURATION, AND OTHER PROVISIONS AS PRESCRIBED BY THE DIRECTOR IN THE ONSITE SYSTEMS MANUAL OR AS DEEMED APPROPRIATE BY THE DIRECTOR ON A CASE-BY-CASE BASIS.

15.1.4. (4) RENEWAL OF AN OPERATING PERMIT REQUIRES: A.PAYMENT OF THE APPLICABLE FEES, UPON RECEIPT OF NOTICE FROM THE DIRECTOR; ANDB.SUBMISSION OF THE RESULTS OF REQUIRED SYSTEM INSPECTION AND MONITORING

15.1.5. (5) FAILURE TO PAY THE REQUIRED FEE OR SUBMIT THE SPECIFIED MONITORING AND INSPECTION INFORMATION, OR FAILURE TO UNDERTAKE ANY REQUIRED CORRECTIVE WORK SPECIFIED BY THE DIRECTOR MAY BE CAUSE FOR ISSUANCE OF A CITATION, PENALTY FEES, NON-RENEWAL AND/OR REVOCATION OF THE OPERATING PERMIT BY THE DIRECTOR. THE DIRECTOR MAY PLACE A LIEN ON THE PROPERTY FOR RECOVERY OF ANY ASSOCIATED ABATEMENT COSTS AND UNPAID FEES.

15.1.6. (6) A CERTIFIED COPY OF THE FOLLOWING SHALL BE RECORDED AGAINST THE PROPERTY IN THE OFFICE OF THE COUNTY RECORDER OF SANTA CLARA COUNTY:A.INITIAL OPERATING PERMIT ISSUED FOR THE SYSTEM; B.REISSUANCE OF OPERATING PERMIT TO NEW OWNERS; ANDC.NOTICES OF WITHDRAWAL OF ANY OPERATING PERMIT

15.2. (B) OTHER USES OF OPERATING PERMITS, AN OPERATING PERMIT MAY ALSO BE UTILIZED FOR CIRCUMSTANCES OTHER THAN ALTERNATIVE OWTS, SUCH AS FOR LARGER FLOW OWTS (> 2,500 GPD), IN CONNECTION WITH HOLDING TANK EXEMPTIONS OR WHERE, IN THE OPINION OF THE DIRECTOR, THE TYPE, SIZE, LOCATION OR OTHER ASPECTS OF A PARTICULAR OWTS INSTALLATION WARRANT THE ADDITIONAL LEVEL OF OVERSIGHT PROVIDED BY AN OPERATING PERMIT. IN SUCH CASES, THE ISSUANCE AND SCOPE OF OPERATING PERMITS WILL BE ISSUED IN ACCORDANCE WITH THE GENERAL REQUIREMENTS LISTED IN SECTION B11-92(A)(1) THROUGH (A)(6) ABOVE, AND ANY ADDITIONAL REQUIREMENTS PRESCRIBED BY THE DIRECTOR IN THE ONSITE SYSTEMS MANUAL FOR PARTICULAR CIRCUMSTANCES.

16. PERFORMANCE MONITORING AND REPORTING.

16.1. (A) A MONITORING PROGRAM WILL BE ESTABLISHED FOR EACH ALTERNATIVE OWTS AS A CONDITION OF THE OPERATING PERMIT AT THE TIME OF PERMIT ISSUANCE, AND MAY BE AMENDED AT THE TIME OF PERMIT RENEWAL. SAID MONITORING SHALL BE PERFORMED TO ENSURE THAT THE ALTERNATIVE OWTS IS FUNCTIONING SATISFACTORILY TO PROTECT WATER QUALITY AND PUBLIC HEALTH AND SAFETY. THE MONITORING PROGRAM WILL BE IN ACCORDANCE WITH GUIDELINES IN THE ONSITE SYSTEMS MANUAL AND MAY ALSO INCORPORATE RECOMMENDATIONS OF THE SYSTEM DESIGNER, MANUFACTURER, OR THIRD-PARTY REVIEWER.

16.2. (B) MONITORING REQUIREMENTS WILL VARY DEPENDING UPON THE SPECIFIC TYPE OF ALTERNATIVE OWTS IN ACCORDANCE WITH GUIDELINES IN THE ONSITE SYSTEMS MANUAL. 16.3. (C) THE REQUIRED FREQUENCY OF MONITORING WILL BE IN ACCORDANCE WITH GUIDELINES IN THE

ONSITE SYSTEMS MANUAL. MONITORING FREQUENCY MAY BE INCREASED IF, IN THE OPINION OF THE DIRECTOR. SYSTEM PROBLEMS ARE EXPERIENCED. 16.4. (D) MONITORING OF ALTERNATIVE OWTS SHALL BE CONDUCTED BY OR UNDER THE SUPERVISION OF

ONE OF THE FOLLOWING: 16.4.1. (1) REGISTERED CIVIL ENGINEER:

16.4.2. (2) PROFESSIONAL GEOLOGIST; 16.4.3.

REQUIREMENTS.

(3) REGISTERED ENVIRONMENTAL HEALTH SPECIALIST; OR (4) OTHER ONSITE WASTEWATER MAINTENANCE PROVIDER REGISTERED WITH THE DEPARTMENT 16.4.4. OF ENVIRONMENTAL HEALTH AND MEETING QUALIFICATIONS AS ESTABLISHED IN THE ONSITE SYSTEMS MANUAL. REGISTRATION SHALL ENTAIL:

16.4.4.1. A. DOCUMENTATION OF REQUIRED QUALIFICATIONS;

16.4.4.2. B. PARTICIPATION IN ANNUAL TRAINING/REVIEW CONDUCTED BY THE DIRECTOR; AND 16.4.4.3. C. PAYMENT OF AN ANNUAL FEE ESTABLISHED BY THE BOARD OF SUPERVISORS. 16.4.4.4. ADDITIONALLY, THE DIRECTOR MAY REQUIRE THIRD-PARTY OR COUNTY MONITORING OF ANY ALTERNATIVE OWTS WHERE DEEMED NECESSARY BECAUSE OF SPECIAL

CIRCUMSTANCES, SUCH AS THE COMPLEXITY OF THE SYSTEM OR THE SENSITIVE NATURE OF THE SITE. THE COSTS FOR SUCH ADDITIONAL MONITORING WOULD BE THE RESPONSIBILITY OF THE OWNER. 16.5. (E) MONITORING RESULTS SHALL BE SUBMITTED TO THE DIRECTOR IN ACCORDANCE WITH REPORTING

GUIDELINES PROVIDED IN THE ONSITE SYSTEMS MANUAL. THE MONITORING REPORT SHALL BE SIGNED BY THE PARTY RESPONSIBLE FOR THE MONITORING. NOTWITHSTANDING FORMAL MONITORING REPORTS, THE DIRECTOR SHALL BE NOTIFIED IMMEDIATELY OF ANY SYSTEM PROBLEMS OBSERVED DURING SYSTEM INSPECTION AND MONITORING THAT THREATEN PUBLIC HEALTH OR WATER QUALITY. 16.6. (F) IN ADDITION TO REGULAR INSPECTION AND MONITORING ACTIVITIES, POST-SEISMIC INSPECTION AND EVALUATION OF ALTERNATIVE OWTS LOCATED IN HIGH-RISK SEISMIC AREAS WILL BE REQUIRED IN THE EVENT OF AN EARTHQUAKE CAUSING SIGNIFICANT GROUND SHAKING IN THE REGION, AS DETERMINED BY

THE DIRECTOR IN CONSULTATION WITH THE COUNTY GEOLOGIST. THE DIRECTOR WILL BE RESPONSIBLE FOR ISSUING APPROPRIATE NOTICES WHEN SUCH INSPECTIONS ARE REQUIRED; THOSE CONDUCTING THE INSPECTIONS WILL BE REQUIRED TO REPORT THE INSPECTION RESULTS TO THE DIRECTOR. THE PURPOSE OF SUCH INSPECTIONS WILL BE TO ASSESS AND DOCUMENT ANY DAMAGE TO THE OWTS AND TO IMPLEMENT CORRECTIVE MEASURES, AS NEEDED, IN A TIMELY MANNER. POST-SEISMIC INSPECTION SHALL BE IN ACCORDANCE WITH REQUIREMENTS PRESCRIBED BY THE DIRECTOR, IN CONSULTATION WITH THE COUNTY

GEOLOGIST, AND CONTAINED IN THE ONSITE SYSTEMS MANUAL. 16.7. (G)THE DIRECTOR WILL, FROM TIME-TO-TIME, COMPILE AND REVIEW MONITORING AND INSPECTION RESULTS FOR ALTERNATIVE OWTS AND, AT LEAST EVERY TWO YEARS, WILL PROVIDE A SUMMARY OF RESULTS TO THE SAN FRANCISCO BAY AND CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARDS. BASED ON THIS REVIEW, THE DIRECTOR MAY REQUIRE CORRECTIVE ACTION FOR SPECIFIC PROPERTIES OR CERTAIN TYPES OF ALTERNATIVE OWTS, OR GENERAL CHANGES IN MONITORING AND INSPECTION

**EROSION CONTROL NOTES: GENERAL. THE CONTRACTOR SHALL** STORMWATER CONTROL MEASURES

PLANS AND THE LOCAL JURISDICTIC 1.1. THE CONSTRUCTION OF THIS P

(OCTOBER 15TH THROUGH APRIL 15 1.2. THE CONTRACTOR SHALL BE RE

AND MAINTENANCE.

1.3. ALL GRADING SHALL CONFORM AND CALIFORNIA BUILDING CODE.

1.4. ALL DISTURBED SURFACES SHA ESTABLISH NATIVE OR NATURALIZE SHALL CONSIST OF: A. EFFECT TEI FAST-GERMINATION SEED, AND MU **B) PERMANENT PLANTING OF NATIV** OR OTHER VEGETATION, PURSUANT COMPLETED; C) MULCHING, FERTIL NEW VEGETATION, ON SLOPES LESS

SEED AND MULCH. ALL AREAS ON- AI PERMANENTLY LANDSCAPED PER F **BROADCASTING OF THE FOLLOWING** DISTURBED SLOPES:

BROMUS CARINATUS 10#/ACRE LEYMUS TRITICOIDES 8#/AC. HORDEUM BRACHYANTHERUM 5#/A FESTUCA RUBRA 8#/AC. DESCHAMPSIA CESPITOSA 8#/AC.

THE MIX/APPLICATION SHALL ALSO - FERTILIZER (6-3-3) SHALL BE HAND - MYCHORRHIZAL FUNGI SHALL BE - IF HYDROSEEDING, ADD MULCH AN

ALL EXCAVATED MATERIAL SHALL B IN A MANNER THAT WILL NOT CAUSE

CONCRETE WASHOUT. TEMPORAR FEET FROM STORM DRAIN INLETS, WASHOUT FACILITY SHALL BE BELC WIDTH OF 10 FEET. TEMPORARY C SUFFICIENT QUANTITY AND SIZE TO OPERATIONS. THE WASHOUT SHAL WASHOUT FACILITIES ARE NO LONG MATERIALS FOR THE WASHOUT SH GROUND DISTURBANCES CAUSED I AND REPAIRED.

**OTHER PROVISIONS.** IF CONSTRUCT NOT INVOLVED IN IMMEDIATE CONS TIMES. AFTER APRIL 15TH, EROSION WEATHER.

EROSION CONTROL MEASURES SHA HAS BEEN ESTABLISHED AND PROV

INSTALL, MAINTAIN AND INSPECT EROSION CONTROL AND TEMPORARY IS TO CONTROL SEDIMENT AND RUNOFF IN ACCORDANCE WITH THESE ON. PROJECT IS NOT EXPECTED TO OCCUR DURING THE WINTER SEASON 5TH). ESPONSIBLE FOR EROSION AND SEDIMENT CONTROL BMP INSTALLATION A TO THE LOCAL GRADING ORDINANCE, EROSION CONTROL ORDINANCES, ALL BE PREPARED AND MAINTAINED TO CONTROL EROSION AND TO D VEGETATIVE GROWTH COMPATIBLE WITH THE AREA. THIS CONTROL MPORARY PLANTING SUCH AS RYE GRASS, SOME OTHER LCHING WITH STRAW AND/OR OTHER SLOPE STABILIZATION MATERIAL; 'E OR NATURALIZED DROUGHT RESISTANT SPECIES OF SHRUBS, TREES, T TO THE COUNTY'S LANDSCAPE CRITERIA, WHEN THE PROJECT IS IZING, WATERING OR OTHER METHODS MAY BE REQUIRED TO ESTABLISH S THAN 20%, TOPSOIL SHOULD BE STOCKPILED AND REAPPLIED. ND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PLAN, SHALL BE PROTECTED BY MULCHING AND/OR HAND G STERIL, WEED FREE, SEED MIX AND INCORPORATED OVER ALL AC.			WASTEWATER SYSTEM SPECIFICATIONS		
ADDED AT 50 LB/ ACKE. ND TACKIFIER TO ABOVE. BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE E EROSION. Y CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 OPEN DRAINAGE FACILITIES, AND WATERCOURSES. THE CONCRETE DW GRADE AND CONSTRUCTED WITH A MINIMUM LENGTH AND MINIMUM ONCRETE FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN 0 CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT L HAVE A 10 MIL POLYETHYLENE PLASTIC LINER. WHEN CONCRETE 3ER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND ALL BE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS, OR OTHER BY THE REMOVAL OF THE CONCRETE WASHOUT SHOULD BE BACKFILLED CTION OCCURS BETWEEN OCTOBER 15TH AND APRIL 15TH, EXPOSED SOIL STRUCTION ACTIVITY SHALL BE PROTECTED FROM EROSION AT ALL N CONTROL MEASURES SHALL BE IN PLACE DURING INCLEMENT ALL BE KEPT IN PLACE BY THE CONTRACTOR UNTIL NATIVE VEGETATION 10DES NECESSARY SLOPE COVER (MINIMUM 70% COVER).			Patchen Christmas Tree Farm Site Improvement Project	22199 and 22197 Old Santa Cruz HWY Los Gatos CA 95033	APN: 558-08-095 & -096
			CLIENT	JIM BECK AND KELLEY	
			MYER ENGINEERING, INC.	PAUL MYER, MS, PE 1796 LAUREL GLEN RD. SOQUEL, CA 95073 (831) 800-2244	paul@myerengineering.com
			Drawn By PEM Project No. 202162	DFESS/ON M C 80522 C 80522 C 903/31/25 CIVIL OF CALIFORM OF CALIFORM Checked B PEN Scale AS SH(	AMO WE RENIDUE
No.	Revision/Issue	Date	Date S Sheet No.	5 OF	5

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