COUNTY OF SANTA CLARA
General Construction Specifications

GENERAL CONDITIONS

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY REDWOOD GEOTECHNICAL ENGINEERING, INC. PO BOX 53058, SAN JOSE, CA 95153, TEL 408-227-5168, PROJECT NO. 2349SCL AND DATED AUGUST 8, 2017. 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.
2. 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.
3. 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.
4. 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.
5. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA.
6. 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.
7. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
8. 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.
9. 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 (4008) 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).
10. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
11. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

1. 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.
2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
3. 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.
4. PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

CONSTRUCTION INSPECTION

1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
2. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
3. 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.
4. 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.
5. 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)

1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
   A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF 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.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

UTILITY LOCATION, TRENCHING & BACKFILL

1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
2. 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.
3. 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.
4. 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.
5. 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.
6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

RETAINING WALLS

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

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GRADING

1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
2. EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
3. 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.

EARTHWORK QUANTITIES			MAXIMUM DEPTHS	
DESCRIPTION	CUT (−)	FILL (+)	CUT (FT)	FILL (FT)
BUILDING FOOTPRINTS & 5' WITHIN THE FOOTPRINTS	124 C.Y.	101 C.Y.	−1.37 FT	1.70 FT
SITE WORK (EXCLUDES BUILDING FOOTPRINTS & 5' WITHIN THE FOOTPRINTS)	243 C.Y.	163 C.Y.	−1.1 FT	0.7 FT
TOTALS RAW: 10% SHRINKAGE FACTOR (ASSUMED)	367 C.Y.	264 C.Y. 26 C.Y.		
TOTAL ADJUSTED:	367 C.Y.	290 C.Y.		
NET IMPORT = FILL − CUT	77 C.Y. (IN-PLACE C.Y)			

NOTE: FILL VOLUMES INCLUDE 20% SHRINKAGE.

EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.

7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%
10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.
13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
14. TOTAL DISTURBED AREA FOR THE PROJECT 42,576 SF (0.98 AC).
15. WDID NO. N/A.
16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

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

ACCESS ROADS AND DRIVEWAYS

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

STREET LIGHTING

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

SANITARY SEWER

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

PORTLAND CEMENT CONCRETE

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

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM 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 PER 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
   C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367.
10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8.
13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.
16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR.
17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING;
   A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
   B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
   C. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL 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.
3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.
4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
5. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

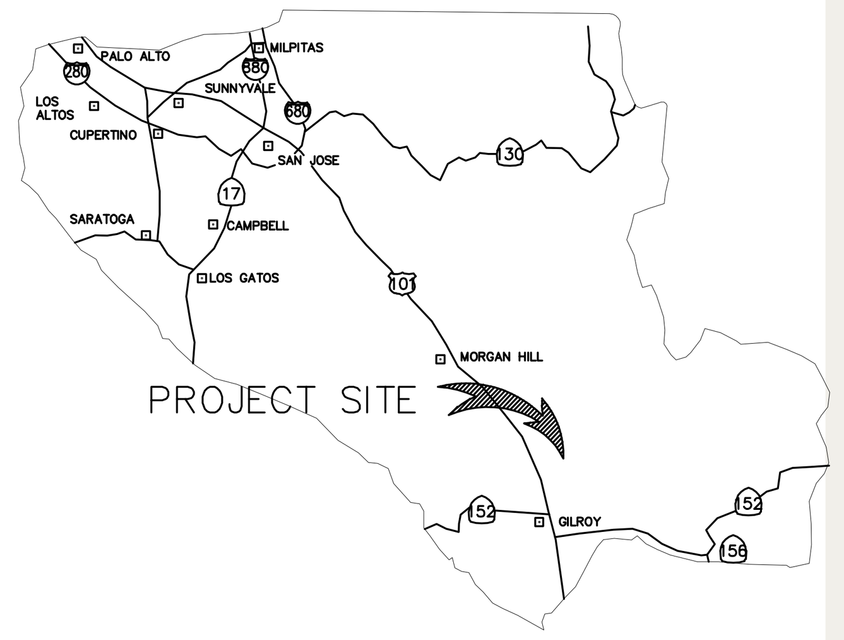
THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (___ WERE) (___ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (___WERE) (___ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL△.

DATE ____________ SIGNATURE ____________

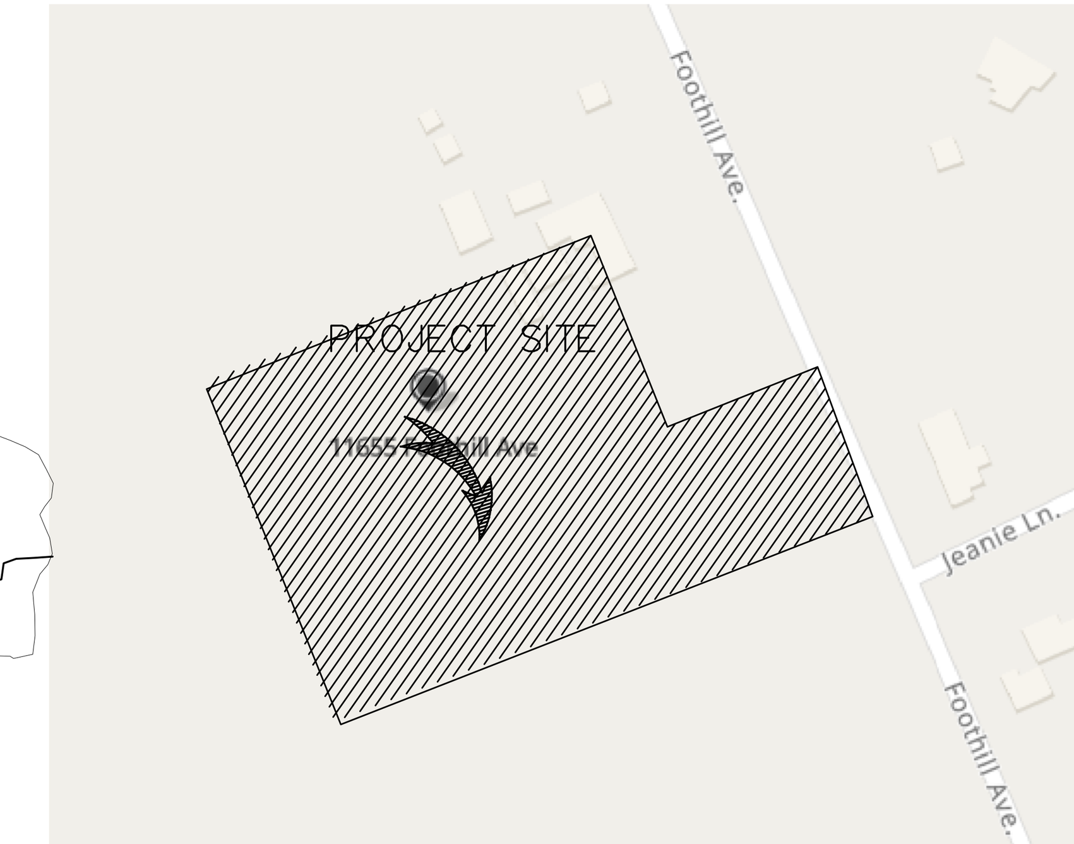
NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTERCONSTRUCTION.

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.



COUNTY LOCATION MAP



VICINITY MAP

SURVEY MONUMENT PRESERVATION

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

BASIS OF BEARINGS

THE BEARING NORTH 66°11'00" EAST OF THE LOT 167 AS SHOWN ON THAT PARCEL MAP FILED FOR RECORD IN BOOK 587 OF MAPS PAGES 13, SANTA CLARA COUNTY RECORDS, AND AS FOUND MONUMENTED, WAS TAKEN AS THE BASIS OF BEARING FOR THIS SURVEY.

BENCH MARK

DESCRIPTION: ASSUMED BENCHMARK, 1/2 REBAR IN THE LOT, NEAR THE SOUTHERLY EASTERLY CORNER OF LOT AS SHOWN: ELEV.: 100.00'

ABBREVATIONS

AC = ASPHALT CONCRETE
AD = AREA DRAIN
BC = BEGIN CURVE
BS = BOTTOM OF STAIR
BU = BUBBLE UP
BVC = BEGIN VERTICAL CURVE
BRW = BOTTOM OF RETAINING WALL
CB = CATCH BASIN
CL = CENTERLINE
CO = CLEANOUT
DS = DOWNSPOUT WITH SPLASH BOX
EC = END CURVE
ELEV. = ELEVATION
EVC = END VERTICAL CURVE
EX. = EXISTING
F/C = FACE OF CURB
FF = FINISHED FLOOR ELEVATION
FH = FIRE HYDRANT
FL = FLOW LINE
GB = GRADE BREAK
GFF = GARAGE FINISH FLOOR
HP = HIGH POINT
HC = HANDICAP UNIT
INV = INVERT
LP = LOW POINT
PAD = PAD ELEVATION
PCC = PORTLAND CEMENT CONCRETE
PL = PROPERTY LINE
PV = PAVEMENT GRADE
PVC = POLYVINYL CHLORIDE PIPE
PVI = POINT OF VERTICAL INTERSECTION
RCP = REINFORCED CONCRETE PIPE
ROW = RIGHT OF WAY
S=.004> SLOPE
SD = STORM DRAIN
SDMH = STORM DRAIN MANHOLE
SG = SUBGRADE ELEVATION
SS = SANITARY SEWER
SSMH = SANITARY SEWER MANHOLE
STA = STATION
TC = TOP OF CURB
TF = TOP OF FENCE
TRW = TOP OF RETAINING WALL
TS = TOP OF STAIR
TW = TOP OF WALL
VCP = VITRIFIED CLAY PIPE
WM = WATER METER
WV = WATER VALVE

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS
ISSUED BY: ____________ DATE: ____________
ENCROACHMENT PERMIT NO. ____________

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY 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 FILE(S) NO. ____________

DATE 11/8/24 ____ P. Oscar Osuna ____ SIGNATURE

70829
R.C.E. NO.
6-30-25
EXPIRATION DATE

REGISTERED PROFESSIONAL ENGINEER PORFIRIO OSCAR OSUNA No. 70829 Exp. 6-30-25 CIVIL STATE OF CALIFORNIA

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.

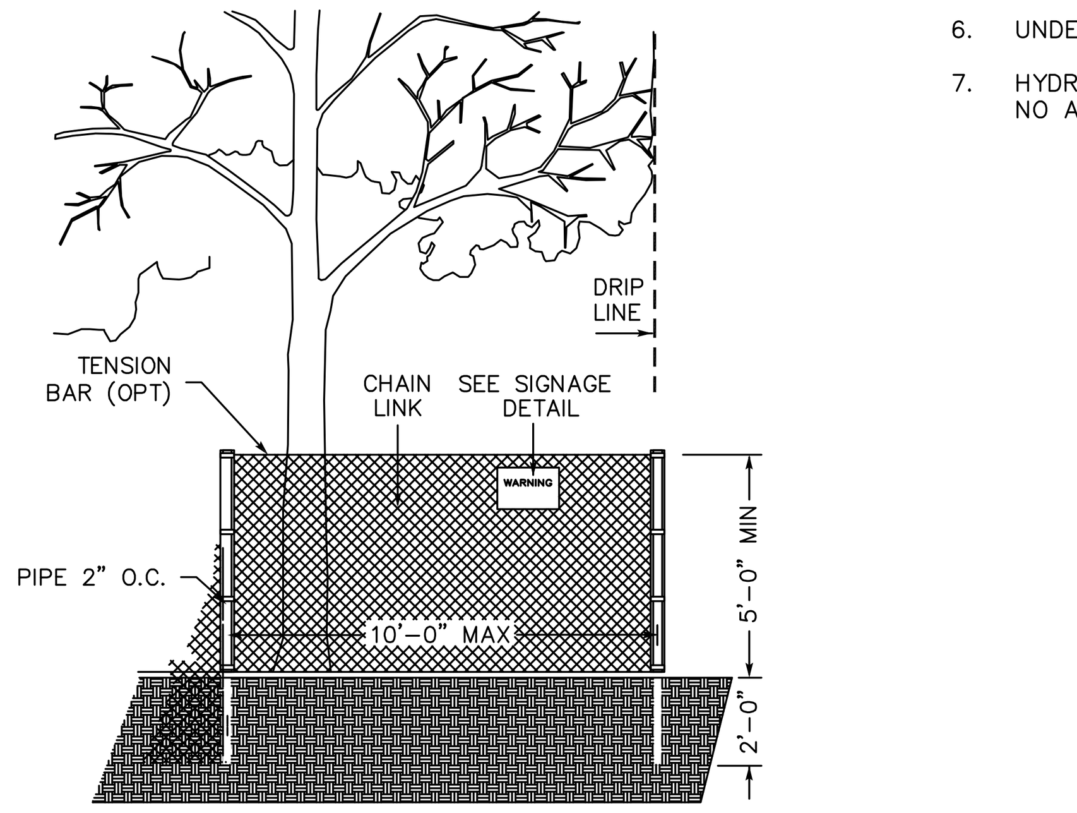
DATE ____________

DARRELL K.H. WONG
63958 — 9/30/2024
R.C.E. NO. — EXPIRATION DATE

FOOTHILL AVENUE PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN LANDS OF CHEN

SCOPE OF WORK

1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION COTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
2. CONSTRUCTION OF NEW HOUSE PAD.
3. CONSTRUCTION OF NEW DRIVEWAY (GRAVEL)
4. CONSTRUCTION OF STORM WATER FACILITIES
5. CONSTRUCTION OF SEPTIC SYSTEM
6. UNDERGROUND UTILITIES
7. HYDROSEED OPEN DISTURBED AREA- NO APPROVED LANDSCAPE



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.

LEGEND

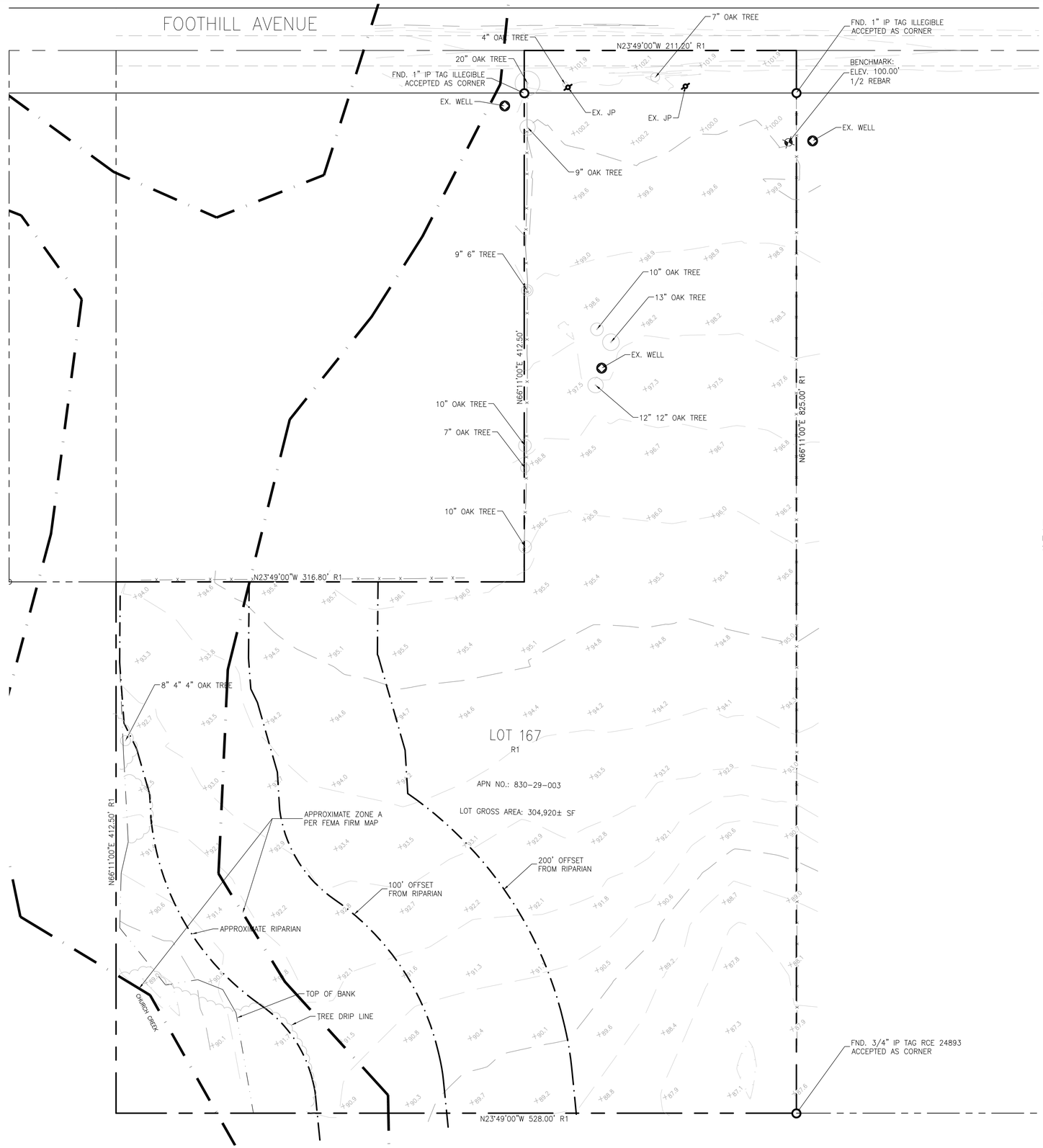
DESCRIPTION	SYMBOL
BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
SIDEWALK	
WOOD FENCE	—X—X—
CHAIN LINK FENCE	
RETAINING WALL	
DRIVEWAY DRAIN INLET	
AREA DRAIN	
DROP INLET	
MONUMENT	
FIRE HYDRANT	
ELECTROLIER	
WATER METER	W
AC UNIT	
SANITARY SEWER LATERAL	
STORM DRAIN	— SD —
SANITARY SEWER	— SS —
STREET LIGHT CONDUITS	— SL —
WATER	— W —
JOINT TRENCH	— JT —
HOUSE SERVICE	— SVC —
SLOPE ARROW	
EXISTING CONTOUR	- - 100 - -
PROPOSED CONTOUR	—(100)—
OVERLAND RELEASE	
DIRECTION OF SURFACE DRAINAGE	→
5% SLOPE AWAY FROM BUILDING	>>

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

SHEET INDEX

ENGINEER'S NAME: PORFIRIO OSCAR OSUNA
ADDRESS: 1949 O'TOOLE WAY
SAN JOSE, CA 95131
PHONE NO. 408-721-2100
EMAIL: info@osunaengineering.com

Revision 1	APN 830-29-003	Sheet C0 of 13
Revision 2		
Revision 3	Co. File LDE17-10900 G	



LEGEND

- EXISTING CONTOUR LINE
- NATURAL GRADE CONTOUR LINE
- FOUND CITY MONUMENT BOX, OR AS NOTED
- BOUNDARY OF PROPERTY SURVEYED
- ( ) RECORD INFORMATION
- CENTERLINE
- CURB INLET
- CURB LINE
- DRIVEWAY APRON
- ELECTROLIER
- FENCE
- FIRE HYDRANT
- FLAT GRATE INLET
- O.H. PWR OVERHEAD POWER LINE
- O.H. TEL OVERHEAD TELEPHONE LINE
- SS SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- SIGN
- SD STORM DRAIN LINE
- STORM DRAIN MANHOLE
- UTILITY BOX
- UTILITY POLE
- W WATER LINE
- WATER METER
- WATER VALVE
- ELM ELECTRIC METER
- WH WATER HEATER
- G GAS
- WELL

10 30 50
0 20 40 100
GRAPHIC SCALE
1" = 40'

BASIS OF BEARINGS

THE BEARING NORTH 66°11'00" EAST OF THE LOT 167 AS SHOWN ON THAT PARCEL MAP FILED FOR RECORD IN BOOK 587 OF MAPS PAGES 13, SANTA CLARA COUNTY RECORDS, AND AS FOUND MONUMENTED, WAS TAKEN AS THE BASIS OF BEARING FOR THIS SURVEY.

REFERENCES:

R1	DEED # 22828129	115-M-46&47
R2	RECORD OF SURVEY	215-M-15
R3	PARCEL MAP	587-M-13

BENCH MARK

DESCRIPTION: ASSUMED BENCHMARK, 1/2 REBAR IN THE LOT, NEAR THE SOUTHERLY EASTERLY CORNER OF LOT AS SHOWN: ELEV.: 100.00'

ABREVIATIONS

APN	ASSESSOR'S PARCEL NUMBER
BM	BENCH MARK
CATV	CABLE TELEVISION OVERHEAD
D	CURVE DELTA
DRWY	DRIVEWAY
DS	DOWNSPOUT
FL	FLOW LINE ELEVATION
IP	IRON PIPE
L	CURVE LENGTH
R#	REFERENCE DOCUMENT
M-M	MONUMENT TO MONUMENT
O.H. PWR	OVERHEAD POWER LINE
O.H. TEL	OVERHEAD TELEPHONE LINE
PCL	PARCEL
P.M.	PARCEL MAP
PTN	PORTION
R	RADIUS
SD	STORM DRAIN
SS	SANITARY SEWER
TC	TOP OF CURB ELEVATION
TEMP.	TEMPORARY
PUE	PUBLIC UTILITY EASEMENT
WLE	WATER LINE EASEMENT

PROFESSIONAL LAND SURVEYOR
PORFIRIO OSCAR OSUNA
No. 8921
Exp. 9-30-26
STATE OF CALIFORNIA

NOTES:

1. DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
2. THE DISTINCTIVE BORDER LINE DENOTES THE BOUNDARY.
3. TREES SPECIES NAMES ARE APPROXIMATE, AND LABELED BY THEIR COMMON NAME TO THE BEST OF OUR KNOWLEDGE. IT IS NOT BASED ON AN ARBORIST REPORT.
4. THIS MAPS REPRESENTS TOPOGRAPHY OF THE SURFACE FEATURES ONLY.
5. UNLESS SPECIFIED ON THIS MAP, LOCATIONS OF THE UNDERGROUND AND OVERHEAD UTILITIES ARE NEITHER INTENDED NOR IMPLIED. FOR THE LOCATIONS OF UNDERGROUND UTILITIES CALL "USA" (1-800-642-2440).
6. A TITLE REPORT FOR THE SUBJECT PROPERTY HAS NOT BEEN EXAMINED BY GREENBLUEARTH, INC. OTHER EASEMENTS OF RECORD MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.

RECORD OF SURVEY NOTE:
THIS PRELIMINARY SITE SURVEY BOUNDARY IS INTENDED FOR INITIAL STUDIES OR PLANNING DESIGN. TO FINALIZE THIS BOUNDARY SURVEY A RECORD OF SURVEY MUST BE FILED PER THE MANDATORY FILING PROVISIONS OF SECTION 8762(B) OF THE PROFESSIONAL LAND SURVEYORS' ACT. THE RECORD OF SURVEY IS BEING FILED CONCURRENTLY WITH THESE PLANS

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

DATE
REVISIONS
DATE 7-02-18
SCALE AS SHOWN
DRAWN BY O.OSUNA
CHECKED BY O.O.

SUPERVISED BY
PROFESSIONAL LAND SURVEYOR NO. 8921
EXPIRES 9/30/2026

PRELIMINARY BOUNDARY AND TOPOGRAPHIC MAP
LANDS OF CHEN
11655 FOOTHILL AVE - APN 830-29-003
GILROY, CALIFORNIA

JOB NO. 1393
SHEET BT1 OF 13

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17-10900 G

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

ABBREVATIONS

AC = ASPHALT CONCRETE
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WM = WATER METER
WV = WATER VALVE

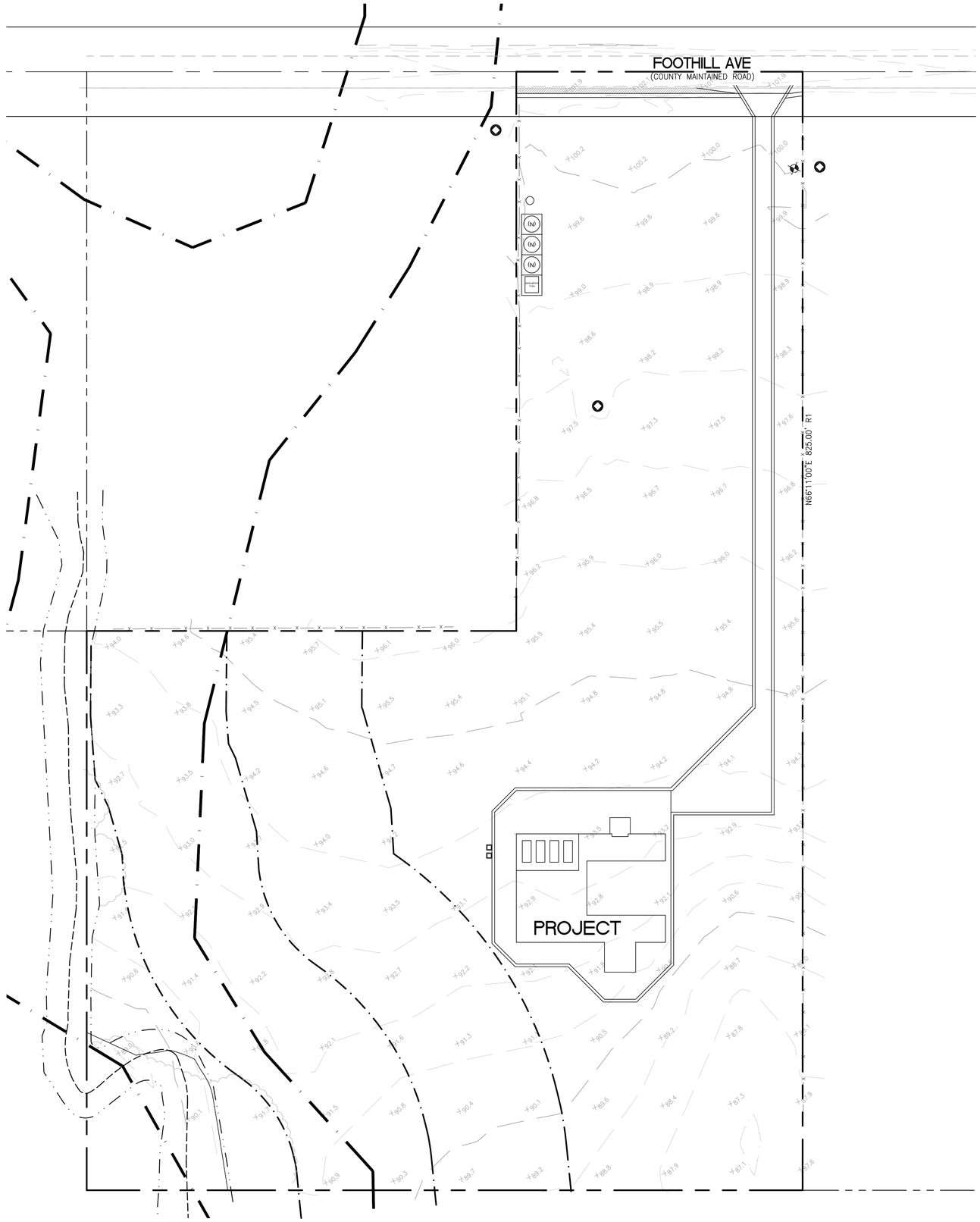
BENCH MARK

DESCRIPTION: ASSUMED BENCHMARK, 1/2 REBAR IN THE LOT, NEAR THE SOUTHERLY EASTERLY CORNER OF LOT AS SHOWN: ELEV.: 100.00'

a. Total Site Area: 304,920 (ft²)		**b. Total Land Area Disturbed During Construction:** 42,576 (ft²) (including clearing, grading, stockpiling, or excavating)			
Project Totals	**Total Existing (Pre-project) Area (ft²)**	**Existing Area Retained[1] (ft²)**	**Existing Area Replaced[2] (ft²)**	**New Area Created[2] (ft²)**	**Total Post-Project Area (ft²)**
Impervious Area (IA)					
c. Total on-site IA	0	0	0	32,006	32,006
d. Total off-site IA[3]	0		0	0	0
e. Total project IA	0	0	0	32,006	32,006
f. Total new and replaced IA			32,006		
Pervious Area (PA)[4]					
g. Total on-site PA	42,576				10,570
h. Total off-site PA[3]	0				0
i. Total project PA	42,576				10,570
j. Total Project Area (2.c.+2.i.)	42,576				42,576

LEGEND

DESCRIPTION	SYMBOL
BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
SIDEWALK	
WOOD FENCE	X — X
CHAIN LINK FENCE	
RETAINING WALL	
DRIVEWAY DRAIN INLET	
AREA DRAIN	
DROP INLET	
MONUMENT	
FIRE HYDRANT	
ELECTROLIER	
WATER METER	
AC UNIT	
SANITARY SEWER LATERAL	
STORM DRAIN	SD
SANITARY SEWER	SS
STREET LIGHT CONDUITS	SL
WATER	W
JOINT TRENCH	JT
HOUSE SERVICE	SVC
SLOPE ARROW	
EXISTING CONTOUR	100
PROPOSED CONTOUR	100
OVERLAND RELEASE	
DIRECTION OF SURFACE DRAINAGE	
5% SLOPE AWAY FROM BUILDING	>>



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

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17-10900 G

REVISIONS | BY | CITY | DATE

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6-30-25

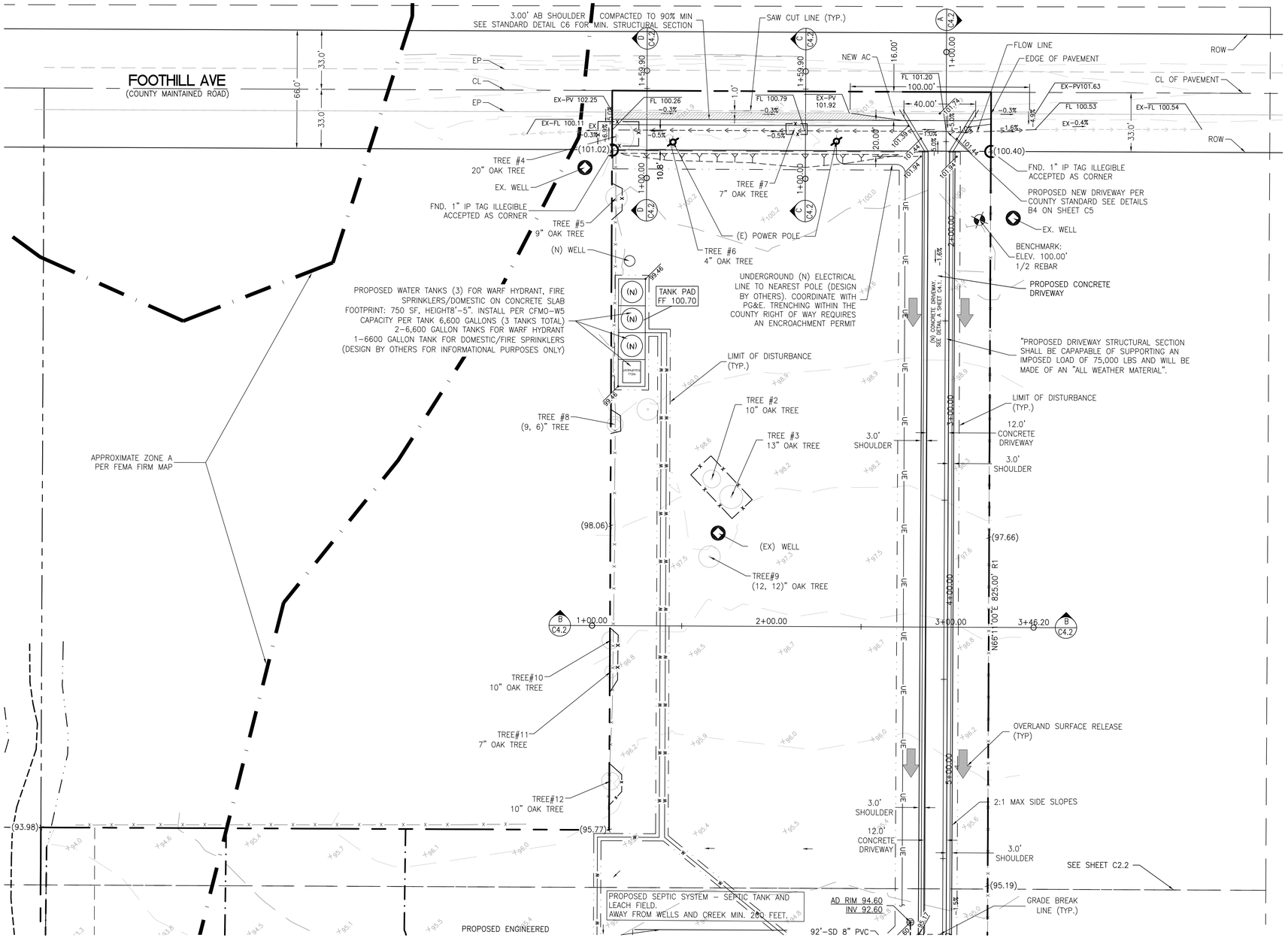
OSUNA ENGINEERING INC.
Planning | Surveying | Civil Engineering
CONSULTING CIVIL ENGINEERS & LAND SURVEYORS
1949 O' TOOLE WAY SAN JOSE, CA 95131
TEL. (408) 721-2100
info@osunaengineering.com

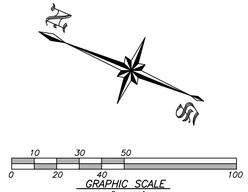
PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
SITE PLAN
11655 FOOTHILL AVE
CALIFORNIA

Project No.: 1323	Designed: JO/OO	Checked: O.O.	Date: 11/8/24

CITY OF GILROY

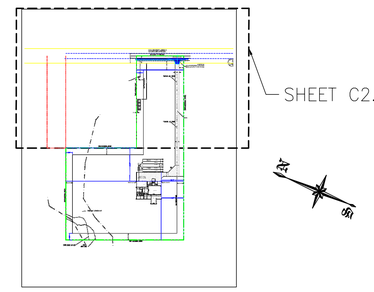
SHEET
C1
OF 13 SHEETS





	TREE SUMMARY TABLE	
TREE #	TREE SIZE AND OBSERVED TYPE*	COMMENTS
1	12 " TREE (PER OWNER, TREE FELL BY STORM)	REMOVED
2	10" OAK TREE	TO REMAIN
3	13" OAK TREE	TO REMAIN
4	20" OAK TREE	TO REMAIN
5	9" OAK TREE	TO REMAIN
6	4" OAK TREE	TO REMAIN
7	7" OAK TREE	TO REMAIN
8	9, 6" TREE	TO REMAIN
9	12, 12" OAK TREE	TO REMAIN
10	10 " OAK TREE	TO REMAIN
11	7" OAK TREE	TO REMAIN
12	10" OAK TREE	TO REMAIN

* TREES SIZE AND TYPE ARE APPROXIMATE BY FIELD SURVEYOR OBSERVATION.
IF REQUIRED FURTHER DETAIL REFER TO ARBORIST



KEY MAP
N.T.S.

GENERAL RIGHT OF WAY (ROW) NOTES:

1. ALL SAWCUT SPOILS SHALL BE VACUUMED
2. SAWCUT AND REPAVE A MINIMUM 1 FOOT OF FOOTHILL AVE/PROPERTY FRONTAGE IMPROVEMENTS LIMITS. MATCH PAVEMENT SECTION IN KIND AND TO COUNTY STANDARD
3. RESTRIPE FOG LINE IN SAWCUT AREA IN KIND WITH 4-INCH WHITE REFLECTIVE PAVEMENT MARKING AND AS REQUESTED BY COUNTY INSPECTOR AND/OR ENGINEER
4. OFF HAUL ALL CONSTRUCTION SPOILS AND DEBRIS TO AN APPROPIATE DUMP FACILITY
5. INSTALL AND MAINTAIN PROPER BMPs THROUGHOUT THE DURATION OF CONSTRUCTION
6. INSTALL AND MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD

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

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REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6-30-25

REVISIONS	BY	CITY	DATE

OSUNA ENGINEERING INC.
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1949 O' TOOLE WAY
SAN JOSE, CA 95131
TEL. (408) 721-2100
Info@osunaengineering.com

PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
11655 FOOTHILL AVE
CALIFORNIA

Project No.: 1393	Designed: JO/20	Checked: O.O.	Date: 11/8/24

CITY OF GILROY

SHEET
C2.1
OF 13 SHEETS

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17-10900 G

	TREE SUMMARY TABLE	
TREE #	TREE SIZE AND OBSERVED TYPE*	COMMENTS
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5	9" OAK TREE	TO REMAIN
6	4" OAK TREE	TO REMAIN
7	7" OAK TREE	TO REMAIN
8	9, 6" TREE	TO REMAIN
9	12, 12" OAK TREE	TO REMAIN
10	10 " OAK TREE	TO REMAIN
11	7" OAK TREE	TO REMAIN
12	10" OAK TREE	TO REMAIN

* TREES SIZE AND TYPE ARE APPROXIMATE BY FIELD SURVEYOR OBSERVATION.
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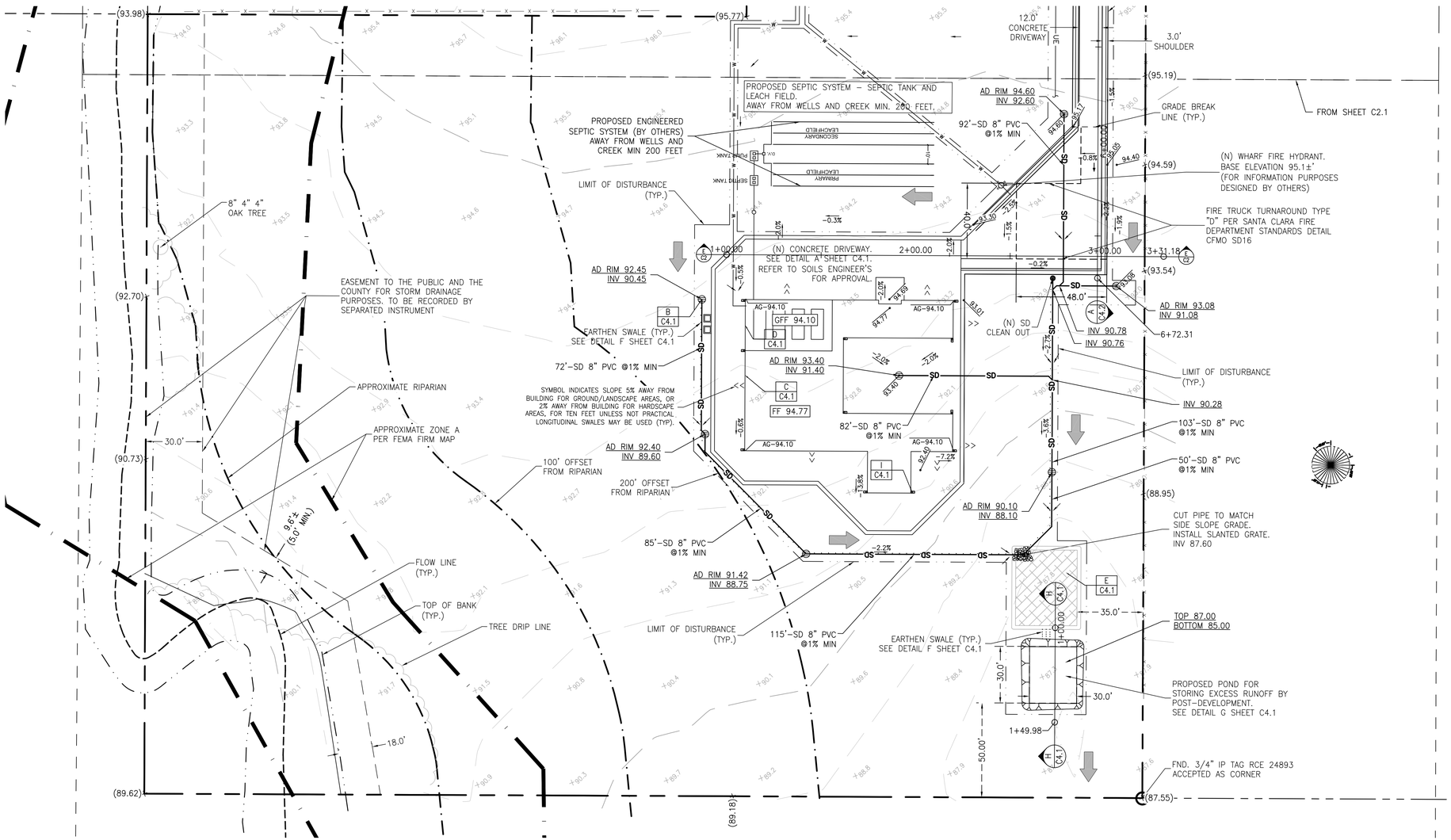

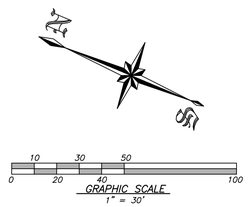

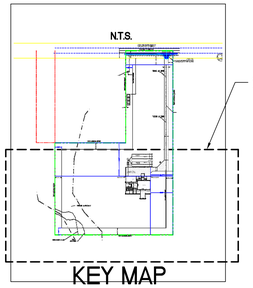

APPROVED FOR ISSUANCE
REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING

REVISIONS | DATE | CITY | BY

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

P. Oscar Osuna
PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6–30–25

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PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
11655 FOOTHILL AVE
CALIFORNIA
CITY OF GILROY
Project No.: 1393 | Designed: JO/20 | Checked: O.O. | Date: 11/8/24

SHEET
C2.2
OF 13 SHEETS

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17–10900 G

STORMWATER CONTROL PLAN

11655 FOOTHILL AVE

11655 FOOTHILL AVE, GILROY, CA 95020

APN NO.: 830-29-003

NEW RESIDENTIAL HOUSE WITH ATTACHED GARAGE & DRIVEAY

POLLUTANTS AND POLLUTANT SOURCE AREAS:
SEDIMENT: roads, parking lots and roofs
The main component of total suspended solids (TSS), and is detrimental to aquatic life. They also transport pollutants such as trace metal, nutrients, and hydrocarbons that attach to each particle.

ORGANIC COMPOUNDS: automotive fluids, pesticides and fertilizers
Organic compounds often attach to soil particles

NUTRIENTS: organic litter, fertilizers, food waste, sewage and sediment.
Nutrients include nitrogen, phosphorus and other organic compounds. Excess nutrients impact creek health and impair use of water in water supply sources by promoting excessive growth of algae or vegetation.

METALS: motor vehicles, roofing and construction materials and chemicals.
Trace metals such as copper, lead, cadmium, chromium, nickel and zinc can be toxic to aquatic organisms and, in accumulated quantities, can contaminate drinking water supplies.

BACTERIA & VIRUSES: animal excrement (areas where pets are often walked), sanitary overflow, and trash handling areas (dumpsters).
Bacteria & viruses may pose public health and safety concerns if they are present in drinking water sources.

OIL & GREASE: motor vehicles, food service establishments and fueling stations.
Oil & grease act as carriers for heavy metals and contain hydrocarbon comp8ounds, which even at low concentrations may be toxic to aquatic organisms.

STORMWATER TREATMENT SUMMARY
The infill site will be designed to Minimize the Directly Connected Impervious Area (DCIA). The downspouts will not be directly connected to the storm sewer system and will be directed into the landscape areas.

The site will use Bioretention to treat impervious areas. A range of treatment measures may be utilized for this infill site, including but not limited to infiltration, concrete pervious pavers, and bioretentions.
This will maximize the opportunity for the runoff to be cleaned before it enters the collection system.
These measures will be maintained by the home owner.

BIORETENTION AREA MAINTENANCE PLAN

1. OBJECTIVES
THE PRINCIPAL MAINTENANCE OBJECTIVE IS TO PREVENT SEDIMENT BUILDUP AND CLOGGING, WHICH REDUCES POLLUTANT REMOVAL EFFICIENCY AND MAY LEAD TO BIORETENTION AREA FAILURE.

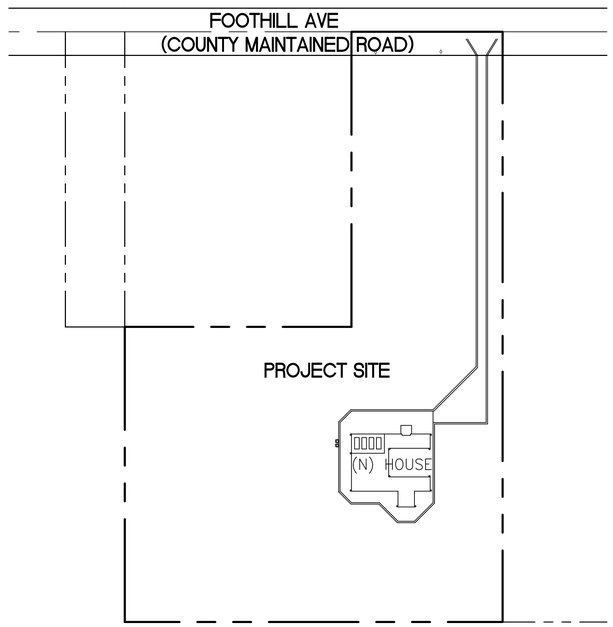
2. ROUTINE MAINTENANCE ACTIVITIES
ROUTINE MAINTENANCE ACTIVITIES, AND THE FREQUENCY AT WHICH THEY WILL BE CONDUCTED:
2.1 REMOVE OBSTRUCTIONS, DEBRIS AND TRASH FROM BIORETENTION AREA AND DISPOSE OF PROPERLY. MONTHLY, OR AS NEEDED AFTER STORM EVENTS.
2.2 INSPECT BIORETENTION AREA TO ENSURE THAT IT DRAINS BETWEEN STORMS AND WITHIN FIVE DAYS AFTER RAINFALL. MONTHLY, OR AS NEEDED AFTER STORM EVENTS
2.3 INSPECT INLETS FOR CHANNELS, SOIL EXPOSURE OR OTHER EVIDENCE OF EROSION. CLEAR OBSTRUCTIONS AND REMOVE SEDIMENT. MONTHLY, OR AS NEEDED AFTER STORM EVENTS.
2.4 REMOVE AND REPLACE ALL DEAD AND DISEASED VEGETATION. TWICE A YEAR.
2.5 MAINTAIN VEGETATION AND THE IRRIGATION SYSTEM. PRUNE AND WEED TO KEEP BIORETENTION AREA NEAT AND ORDERLY IN APPEARANCE. BEFORE WET SEASON BEGINS, OR AS NEEDED.
2.6 CHECK THAT MULCH IS AT APPROPRIATE DEPTH (3 INCHES PER SOIL SPECIFICATIONS) AND REPLENISH AS NECESSARY BEFORE WET SEASON BEGINS. MONTHLY.
2.7 INSPECT BIORETENTION AREA USING THE ATTACHED INSPECTION CHECKLIST. MONTHLY, OR AFTER LARGE STORM EVENTS, AND AFTER REMOVAL OF ACCUMULATED DEBRIS OR MATERIAL.

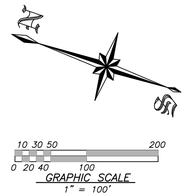
3. PROHIBITIONS
THE USE OF PESTICIDES AND QUICK RELEASE FERTILIZERS SHALL BE MINIMIZED, AND THE PRINCIPLES OF INTEGRATED PEST MANAGEMENT (IPM) FOLLOWED:
3.1 EMPLOY NON-CHEMICAL CONTROLS (BIOLOGICAL, PHYSICAL AND CULTURAL CONTROLS) BEFORE USING CHEMICALS TO TREAT A PEST PROBLEM.
3.2 PRUNE PLANTS PROPERLY AND AT THE APPROPRIATE TIME OF YEAR.
3.3 PROVIDE ADEQUATE IRRIGATION FOR LANDSCAPE PLANTS. DO NOT OVER WATER.
3.4 LIMIT FERTILIZER USE UNLESS SOIL TESTING INDICATES A DEFICIENCY. SLOW-RELEASE OR ORGANIC FERTILIZER IS PREFERABLE. CHECK WITH MUNICIPALITY FOR SPECIFIC REQUIREMENTS.
3.5 PEST CONTROL SHOULD AVOID HARMING NON-TARGET ORGANISMS, OR NEGATIVELY AFFECTING AIR AND WATER QUALITY AND PUBLIC HEALTH. APPLY CHEMICAL CONTROLS ONLY WHEN MONITORING INDICATES THAT PREVENTATIVE AND NON-CHEMICAL METHODS ARE NOT KEEPING PESTS BELOW ACCEPTABLE LEVELS. WHEN PESTICIDES ARE REQUIRED, APPLY THE LEAST TOXIC AND THE LEAST PERSISTENT PESTICIDE THAT WILL PROVIDE ADEQUATE PEST CONTROL. DO NOT APPLY PESTICIDES ON A PRESCHEDULED BASIS.
3.6 SWEEP UP SPILLED FERTILIZER AND PESTICIDES. DO NOT WASH AWAY OR BURY SUCH SPILLS.
3.7 DO NOT OVER APPLY PESTICIDE. SPRAY ONLY WHERE THE INFESTATION EXISTS. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR MIXING AND APPLYING MATERIALS.
3.8 ONLY LICENSED, TRAINED PESTICIDE APPLICATORS SHALL APPLY PESTICIDES.
3.9 APPLY PESTICIDES AT THE APPROPRIATE TIME TO MAXIMIZE THEIR EFFECTIVENESS AND MINIMIZE THE LIKELIHOOD OF DISCHARGING PESTICIDES INTO RUNOFF. WITH THE EXCEPTION OF PRE-EMERGENT PESTICIDES, AVOID APPLICATION IF RAIN IS EXPECTED.
3.10 UNWANTED/UNUSED PESTICIDES SHALL BE DISPOSED AS HAZARDOUS WASTE.

4. VECTOR CONTROL
4.1 OBJECTIVE: TO PREVENT CONDITIONS WITHIN SWALES THAT ATTRACT AND/OR PROMOTE THE GROWTH OF DISEASE VECTORS, INCLUDING BUT NOT LIMITED TO MOSQUITOS, RODENTS, AND FLIES.
4.2 MAINTENANCE ACTIVITIES FOR VECTOR CONTROL
4.2.1 INSPECTIONS: REGULAR INSPECTIONS WILL DETERMINE IF SWALES HAVE POOLS OF STANDING WATER OR DEBRIS ACCUMULATION. INSPECTIONS WILL BE CONDUCTED PRIOR TO THE RAINY SEASON, AFTER MAJOR STORM EVENTS, AND AT LEAST ONCE DURING THE DRY SEASON TO ASCERTAIN THAT STANDING WATER DRAINS FROM THE SWALE WITHIN 5 DAYS.
4.2.2 HOLES IN GROUND: ABATE POTENTIAL VECTORS BY FILLING HOLES IN THE GROUND IN AND AROUND THE SWALE AND BY INSURING THAT THERE ARE NO AREAS WHERE WATER STANDS LONGER THAN 5 DAYS FOLLOWING A STORM.
4.2.3 OTHER MAINTENANCE ACTIVITIES: IF ANY OBSTRUCTIONS DEVELOP (E.G. DEBRIS ACCUMULATION, INVASIVE VEGETATION, CLOGGING OF OUTLETS AND/OR UNDER DRAINS) WITHIN THE SWALE, APPROPRIATE MAINTENANCE ACTIVITIES SHALL BE IMPLEMENTED TO CORRECT THE OBSTRUCTION. REFER TO SECTION 3 FOR DETAILS ON SPECIFIC MAINTENANCE ACTIVITIES.

4.3 MOSQUITO ABATEMENT: THE AUTHORITY IN SANTA CLARA COUNTY IN CHARGE OF MOSQUITO ABATEMENT SHALL BE CONTACTED AS NEEDED FOR ASSISTANCE SHOULD ANY MOSQUITO ISSUES ARISE. MOSQUITO LARVICIDES SHOULD BE APPLIED ONLY WHEN ABSOLUTELY NECESSARY AND THEN ONLY BY A LICENSED PROFESSIONAL OR CONTRACTOR.

5. CORRESPONDENCE
CORRESPONDENCE REGARDING OPERATIONS, INSPECTIONS AND MAINTENANCE OF THE STORM WATER TREATMENT MEASURES WILL BE PROVIDED TO THE COUNTY OF SANTA CLARA ENVIRONMENTAL SERVICES DIVISION AS REQUIRED AND ACCORDING TO THE SCHEDULE OUTLINED IN THE OPERATIONS AND MAINTENANCE AGREEMENT.





ABBREVATIONS

AC = ASPHALT CONCRETE
AD = AREA DRAIN
BC = BEGIN CURVE
BS = BOTTOM OF STAIR
BU = BUBBLE UP
BVC = BEGIN VERTICAL CURVE
BRW = BOTTOM OF RETAINING WALL
CB = CATCH BASIN
CL = CENTERLINE
CO = CLEANOUT
DS = DOWNSPOUT WITH SPLASH BOX
EC = END CURVE
ELEV. = ELEVATION
EVC = END VERTICAL CURVE
EX. = EXISTING
F/C = FACE OF CURB
FF = FINISHED FLOOR ELEVATION
FH = FIRE HYDRANT
FL = FLOW LINE
GB = GRADE BREAK
GFF = GARAGE FINISH FLOOR
HP = HIGH POINT
HC = HANDICAP UNIT
INV = INVERT
LP = LOW POINT
PAD = PAD ELEVATION
PCC = PORTLAND CEMENT CONCRETE
PL = PROPERTY LINE
PV = PAVEMENT GRADE
PVC = POLYVINYL CHLORIDE PIPE
PVI = POINT OF VERTICAL INTERSECTION
RCP = REINFORCED CONCRETE PIPE
ROW = RIGHT OF WAY
S=.004> SLOPE
SD = STORM DRAIN
SDMH = STORM DRAIN MANHOLE
SG = SUBGRADE ELEVATION
SS = SANITARY SEWER
SSMH = SANITARY SEWER MANHOLE
STA = STATION
TC = TOP OF CURB
TF = TOP OF FENCE
TRW = TOP OF RETAINING WALL
TS = TOP OF STAIR
TW = TOP OF WALL
VCP = VITRIFIED CLAY PIPE
WM = WATER METER
WV = WATER VALVE

LEGEND

DESCRIPTION	SYMBOL
BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
SIDEWALK	
WOOD FENCE	x x
CHAIN LINK FENCE	
RETAINING WALL	
DRIVEWAY DRAIN INLET	
AREA DRAIN	
DROP INLET	
MONUMENT	
FIRE HYDRANT	
ELECTROLIER	
WATER METER	
AC UNIT	
SANITARY SEWER LATERAL	
STORM DRAIN	SD
SANITARY SEWER	SS
STREET LIGHT CONDUITS	SL
WATER	W
JOINT TRENCH	JT
HOUSE SERVICE	SVC
SLOPE ARROW	
EXISTING CONTOUR	100
PROPOSED CONTOUR	100
OVERLAND RELEASE	
DIRECTION OF SURFACE DRAINAGE	
5% SLOPE AWAY FROM BUILDING	>>

Operation and Maintenance Information

a) Property Owner's Name: Mingwei Chen

b) Responsible Party for Stormwater Treatment/Hydromodification Control O&M:

i. Name: Mingwei Chen

ii. Address: 11655 Foothill Ave

iii. Phone/E-mail: (909) 860-8216 / finy8@hotmail.com

1-800-642-2444 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

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

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REVISIONS | BY | CITY | DATE

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

P. Oscar Osuna
PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6-30-25

OSUNA ENGINEERING INC.
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CONSULTING CIVIL ENGINEERS & LAND SURVEYORS
1949 O' TOOLE WAY SAN JOSE, CA 95131
TEL. (408) 721-2100
info@osunaengineering.com

PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
STORMWATER CONTROL PLAN
11655 FOOTHILL AVE
CALIFORNIA

CITY OF GILROY | Project No.: 1383 | Designed: T.M.W. | Checked: O.O. | Date: 11/8/24

SHEET
C3.1
OF 13 SHEETS

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17-10900 G

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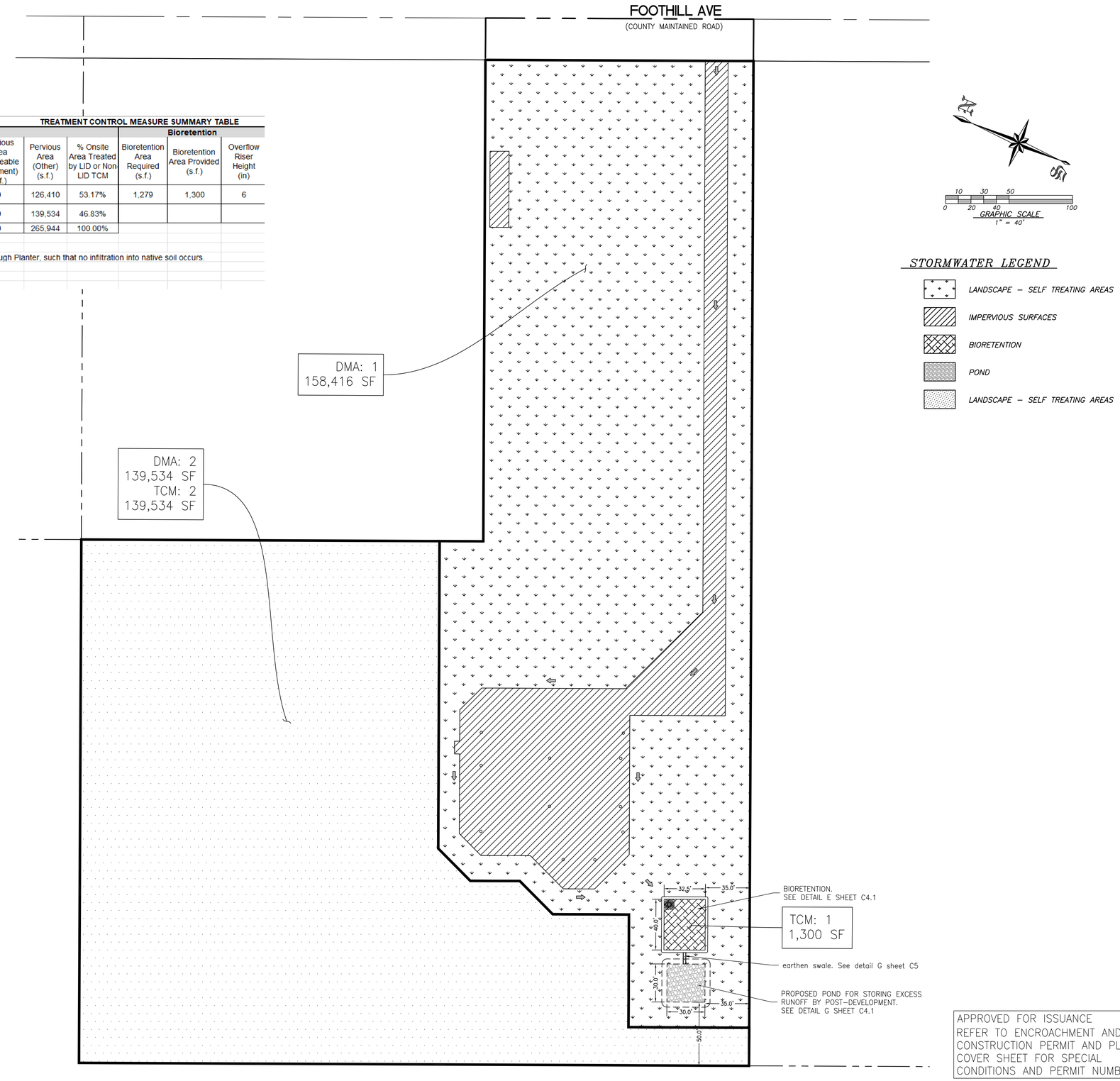
TREATMENT CONTROL MEASURE SUMMARY TABLE

DMA #	TCM #	Location[1]	Treatment Type[2]	LID or Non-LID	Sizing Method	Drainage Area (s.f.)	Impervious Area[4] (s.f.)	Pervious Area (Permeable Pavement) (s.f.)	Pervious Area (Other) (s.f.)	% Onsite Area Treated by LID or Non-LID TCM	Bioretention		
											Bioretention Area Required (s.f.)	Bioretention Area Provided (s.f.)	Overflow Riser Height (in)
1	1	Onsite	Bioretention unlined w/ underdrain	LID	2C. Flow: 4% Method **	158,416	32,006	0	126,410	53.17%	1,279	1,300	6
2	2	Onsite	Self-treating areas (landscaped)	LID	N/A	139,534	0	0	139,534	46.83%			
					Totals:	297,950	32,006	0	265,944	100.00%			

Footnotes:

1 "Lined" refers to an impermeable liner placed on the bottom of a Bioretention basin or a concrete Flow-Through Planter, such that no infiltration into native soil occurs.
2 Sizing for Bioretention Area Required calculated using the 4% Method (Impervious Area x 0.04)
3 Gravel is considered as an impervious surface unless it is part of an infiltration trench.



STORMWATER LEGEND

- LANDSCAPE – SELF TREATING AREAS
- IMPERVIOUS SURFACES
- BIORETENTION
- POND
- LANDSCAPE – SELF TREATING AREAS

Project Watershed/Receiving Water (creek, river): Church Creek

1. Total Project Area	42,576	ft²
2. Pre-Project		
(a) Impervious Area	0	ft²
(b) Pervious Area	42,576	ft²
3. Post-Project		
(a) Replaced Impervious Area	0	ft²
(b) New Impervious Area	32,006	ft²
(c) Total Post-Project Impervious Area (*sum of Line 3a and Line 3b*)	32,006	ft²
(d) Post-Project Pervious Area	10,570	ft²
Net Impervious Area		
4. Reduced Impervious Area Credit *(Line 2a minus Line 3c)*	0	ft²
5. Net Impervious Area *(Line 3c minus Line 4)*	32,006	ft²

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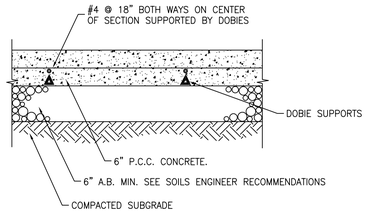
CITY OF GILROY

SHEET
C3.2
OF 13 SHEETS

APPLICANT: CHEN | ROAD: FOOTHILL AVE | FILE NO.: LDE17-10900 G



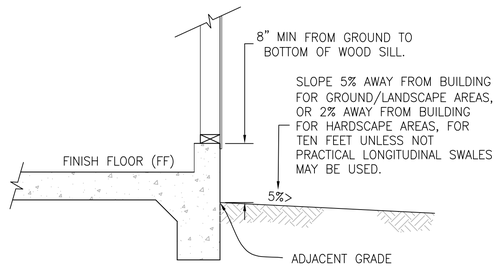
NOTE:
1. CONCRETE STRENGTH: 3,500 PSI IN 28 DAYS
2. PAVEMENT SHOULD BE LATERALLY CONSTRAINED WITH CONCRETE VERTICAL CURBS OR 1.5' DEEPENED SHOULDERS
3. INSTALL SUFFICIENT CONTROL JOINTS TO LIMIT AND CONTROL CRACKING
4. REFER TO LANDSCAPE PLANS FOR PATTERN AND COLOR.

CONCRETE PAVEMENT SECTION
N.T.S.

N.T.S.

A CONCRETE DRIVEWAY DETAIL

NOTE: ALL GRADING IS BASED OFF OF THIS ARCHITECTURAL SECTION. THE ADJACENT GRADE AND GFF DIMENSIONS SHOWN HERE MUST BE KEPT. NOTIFY THE ENGINEER BEFORE MAKING ANY CHANGES.



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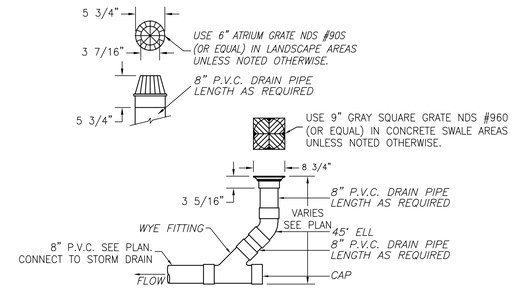
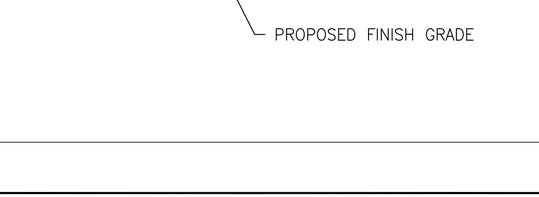


LANDSCAPE DRAIN DETAIL
N.T.S.

N.T.S.

B AREA DRAIN DETAIL



CROSS SECTION OF BIORETENTION AREA (SIDE VIEW)
PER FIGURE 6-3 OF C3 HANDBOOK
N.T.S.

N.T.S.

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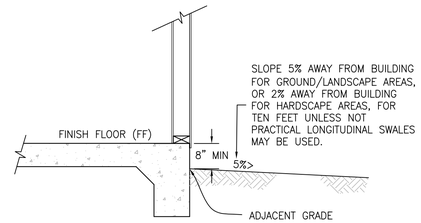

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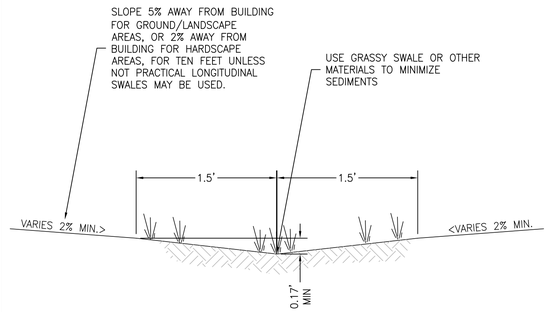
C TYPICAL FOUNDATION/FF/GROUND SECTION



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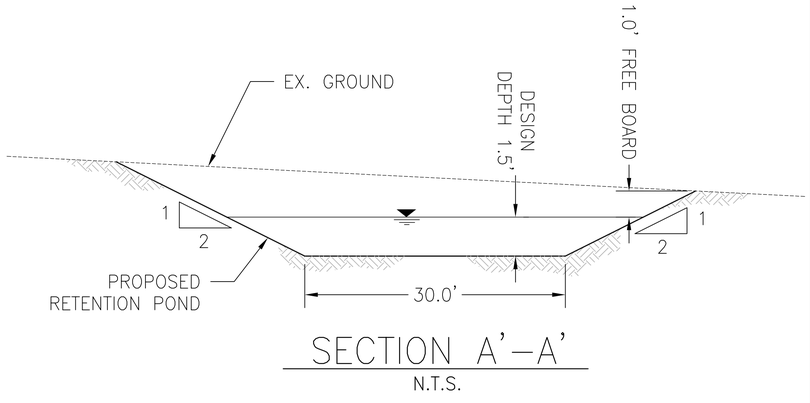
D TYPICAL FOUNDATION/GFF/GROUND SECTION

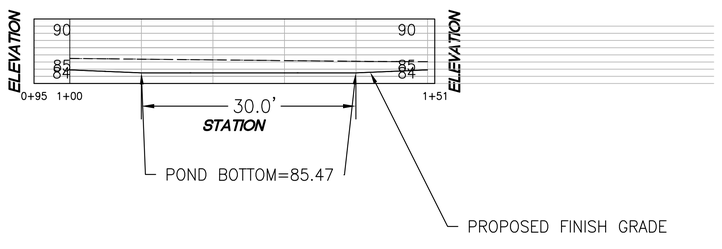


SECTION A'–A'
N.T.S.

N.T.S.

E BIORETENTION DETAIL

SECTION POND PROFILE



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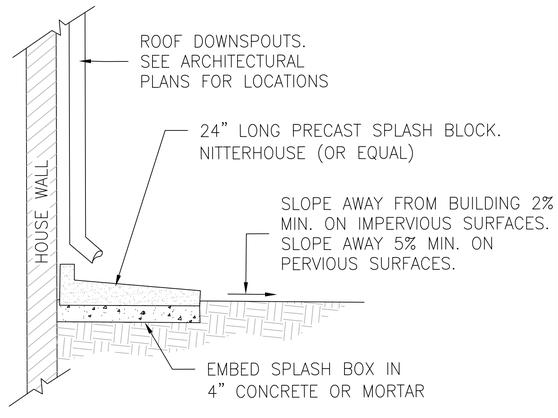
F EARTHEN SWALE DETAIL



SPLASH BLOCK/DOWNSPOUT DETAIL
N.T.S.

N.T.S.

G POND RETENTION DETAIL

H POND SECTION

I SPLASH BLOCK/DOWNSPOUT DETAIL

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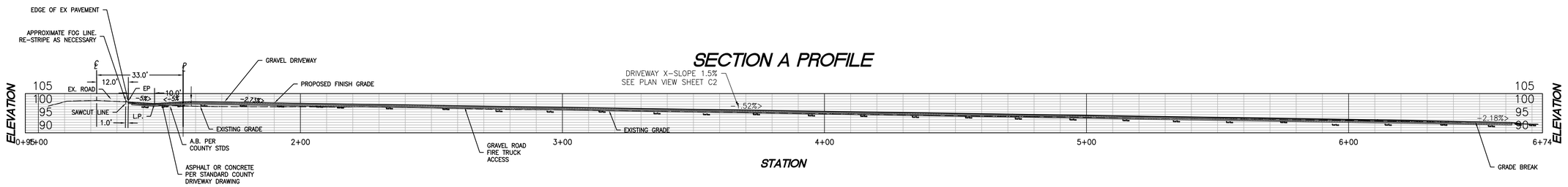

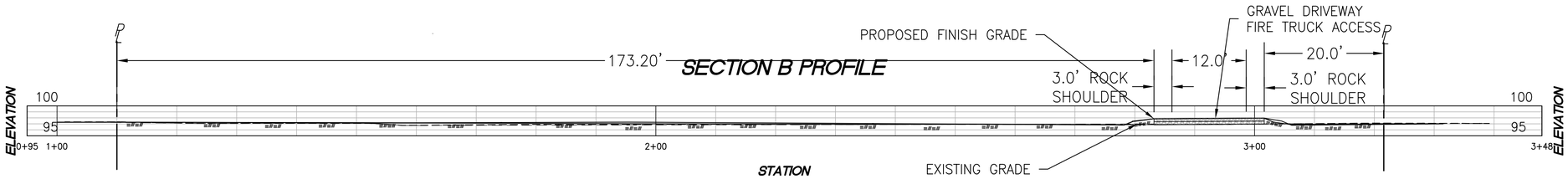

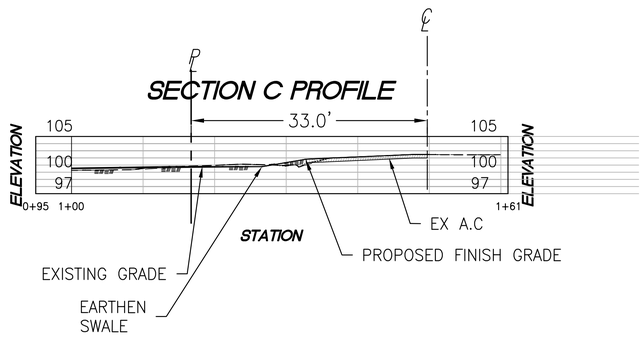

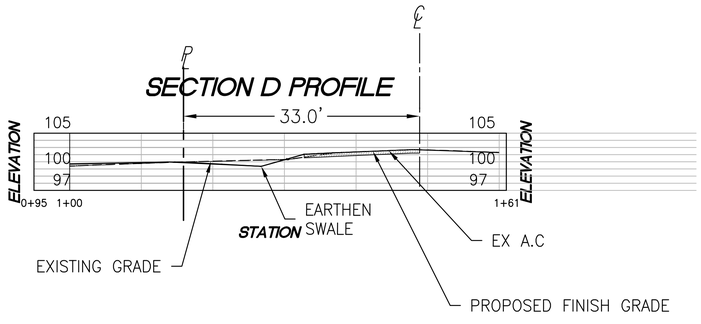

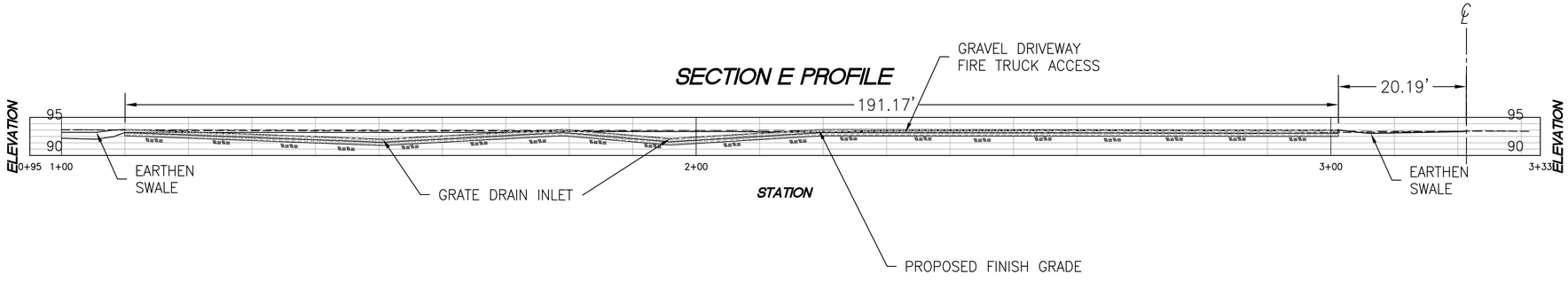

H: SCALE: 1"=20' ; V: SCALE:1"=10'

SECTIONS

APPLICANT: CHEN

ROAD: FOOTHILL AVE

FILE NO.: LDE17-10900 G

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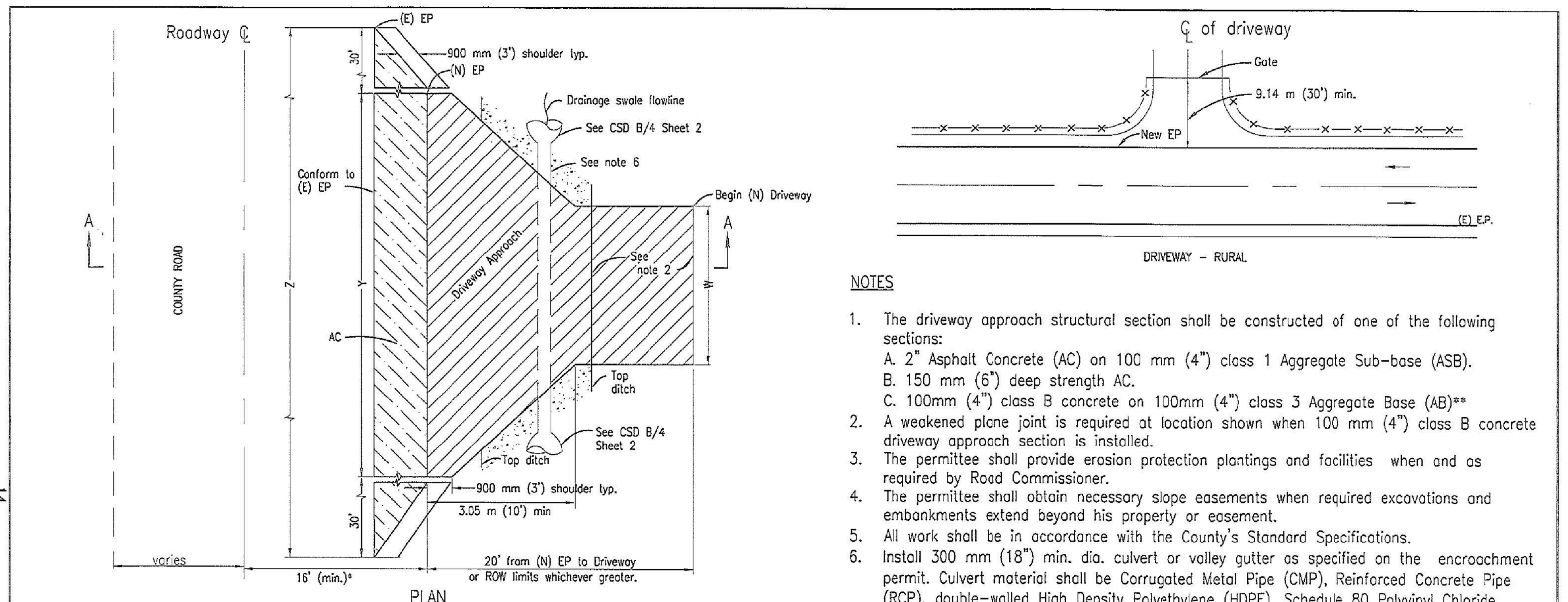
PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
DETAILS AND SECTIONS
11655 FOOTHILL AVE
CALIFORNIA

CITY OF GILROY | Project No.: 1393 | Designed: JO/20 | Checked: O.O. | Date: 11/8/24

SHEET
C4.2
OF 13 SHEETS



DRIVEWAY – RURAL

NOTES

1. The driveway approach structural section shall be constructed of one of the following sections:
   A. 2" Asphalt Concrete (AC) on 100 mm (4") class 1 Aggregate Sub-base (ASB).
   B. 150 mm (6") deep strength AC.
   C. 100mm (4") class B concrete on 100mm (4") class 3 Aggregate Base (AB)**
2. A weakened plane joint is required at location shown when 100 mm (4") class B concrete driveway approach section is installed.
3. The permittee shall provide erosion protection plantings and facilities when and as required by Road Commissioner.
4. The permittee shall obtain necessary slope easements when required excavations and embankments extend beyond his property or easement.
5. All work shall be in accordance with the County's Standard Specifications.
6. Install 300 mm (18") min. dia. culvert or valley gutter as specified on the encroachment permit. Culvert material shall be Corrugated Metal Pipe (CMP), Reinforced Concrete Pipe (RCP), double-walled High Density Polyethylene (HDPE), Schedule 80 Polyvinyl Chloride (PVC) or approved equivalent.
7. Sight panels shall be installed on both ends of culvert per County Standard Detail B/16.

* Refer to County Standard Detail A/4 for actual width.
** Applicable only if tie-into existing concrete curb, gutter and/or sidewalk.

LEGEND

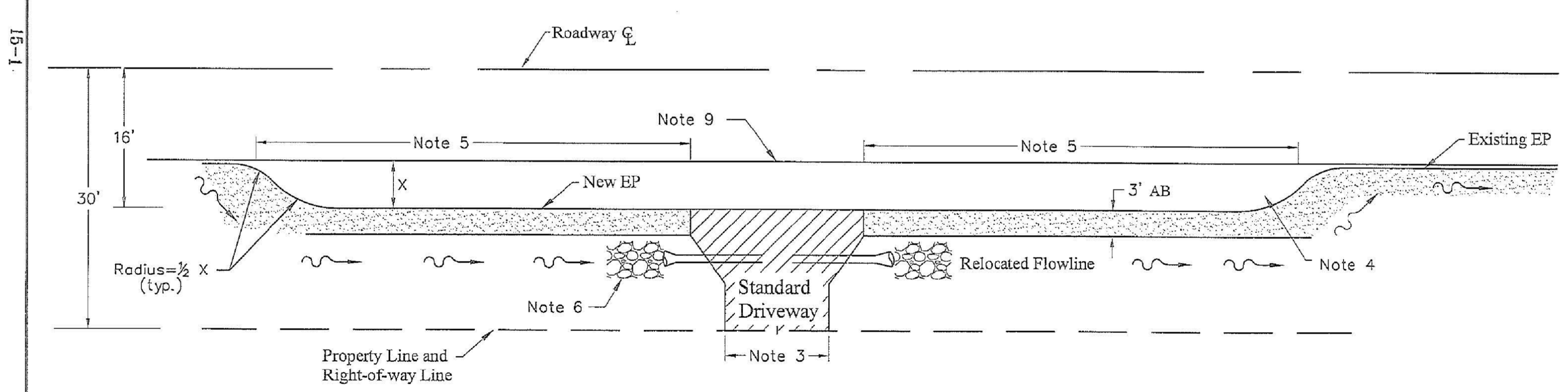
(E) Existing
EP Edge of pavement
(N) New
ROW Right of way
W= 12' Min. (Driveway width)
Z= 92' Min. or Y+60'
Y= 32' Min. or W+20' (Driveway approach)

METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
APPROVAL: DAN COLLEN, DEPUTY DIRECTOR
STANDARD DETAILS
RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE
DRAWING NO. B/4 — SHT NO. 1 OF 2

NOTES:

1. Single residence (County Standard Detail B/4) and/or Multiple Residence (County Standard Detail B/5).
2. New or existing retrofit driveway/driveway approach.
3. Driveway approach pavement section and dimensions per County Standard Detail B/4 or B/5.
4. Minimum roadway structural section per County Standard Details A/1 through A/9 or match in kind, the more restrictive shall apply.
5. Minimum 50 linear feet or to property corner limits, whichever is greater shall apply.
6. Rip rap rock energy dissipaters, owner's engineer to determine/calculate size, type and dimensions in conformance with most current County Drainage Manual, as appropriate.
7. Provide positive drainage flow across frontage.
8. 3-ft aggregate base (AB) shoulder shall be compacted to 90%. Refer to County Standard Detail A/4 for minimum structural section.
9. Replace existing shoulder stripe/fog line in kind [e.g., thermoplastic or white reflective paint (2 coats min) etc].



SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
STANDARD DETAILS
RURAL DRIVEWAY APPROACH & FRONTAGE INTERIM CONDITION
DRAWING NO. B/4A — SHT NO. 1 OF 1

A COUNTY OF SANTA CLARA STANDARD DETAIL B4

California MUTCD 2012 Edition
(FHWA's MUTCD 2009 Edition, as amended for use in California) — Page 1157

Notes for Figure ~~6H-10~~ 6H-10(CA) —Typical Application 10 Lane Closure on a Two-Lane Road Using Flaggers

Option:
1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.

Standard:

5. At night, flagger stations shall be illuminated, except in emergencies.

Guidance:

6. When used, the BE PREPARED TO STOP sign should be located ~~between~~ after the Flagger sign and the ONE LANE ROAD sign.
7. When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.
8. When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.
9. When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.
10. Early coordination with the railroad company or light rail transit agency should occur before work starts.

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

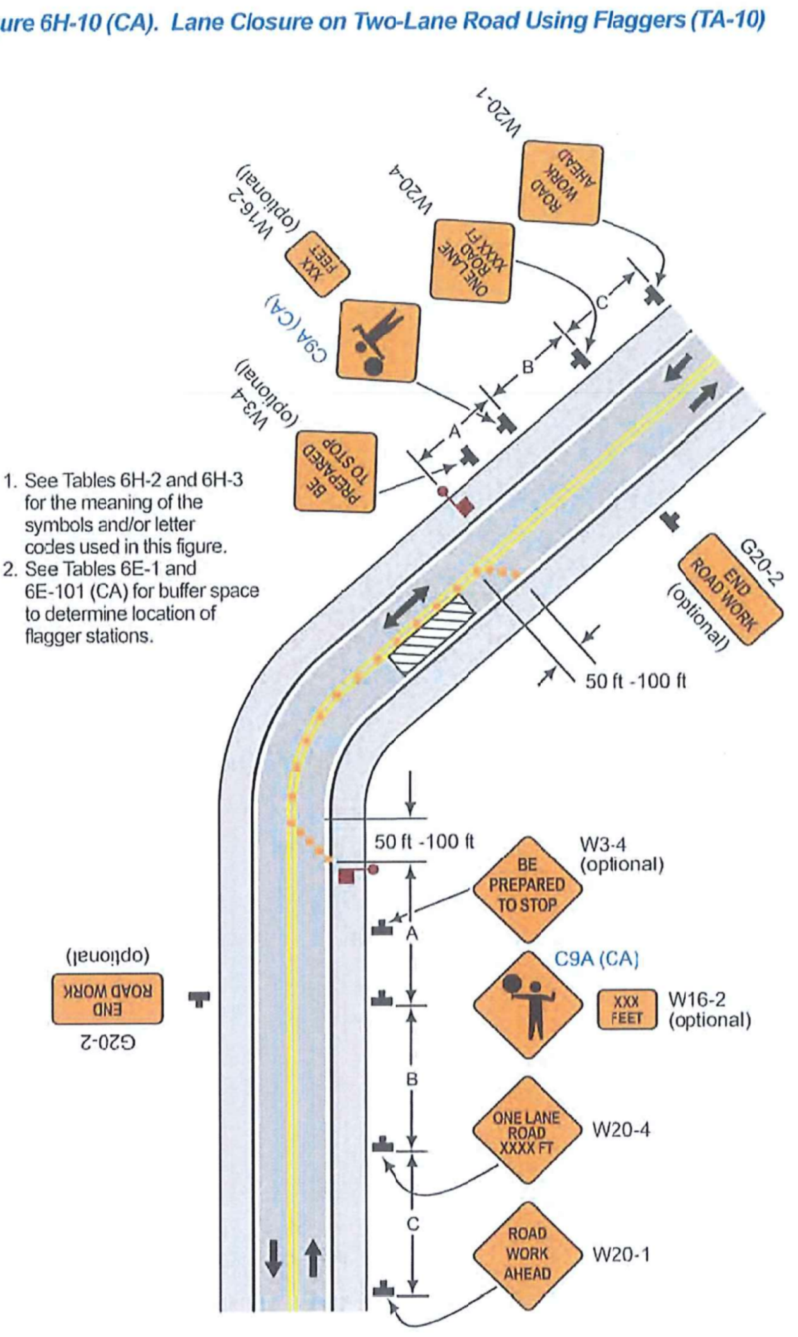
Support:

12. For State highways, see Department of Transportation's Standard Plan T13. See Section 1A.11 for information regarding this publication.

Chapter 6H – Typical Applications
Part 6 – Temporary Traffic Control — January 13, 2012
Temporary Traffic Control (Parts 1 & 6) Page 215 of 320

California MUTCD 2012 Edition
(FHWA's MUTCD 2009 Edition, as amended for use in California) — Page 1159

Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Note: 1. See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.
2. See Tables 6E-1 and 6E-101 (CA) for buffer space to determine location of flagger stations.

Typical Application 10

Chapter 6H – Typical Applications
Part 6 – Temporary Traffic Control — January 13, 2012
Temporary Traffic Control (Parts 1 & 6) Page 217 of 320

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

REVISIONS — BY — CITY — DATE

REGISTERED PROFESSIONAL ENGINEER — PORFIRIO OSCAR OSUNA — No. 70829 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA
PORFIRIO OSCAR OSUNA RCE 70829 EXP. 6-30-25

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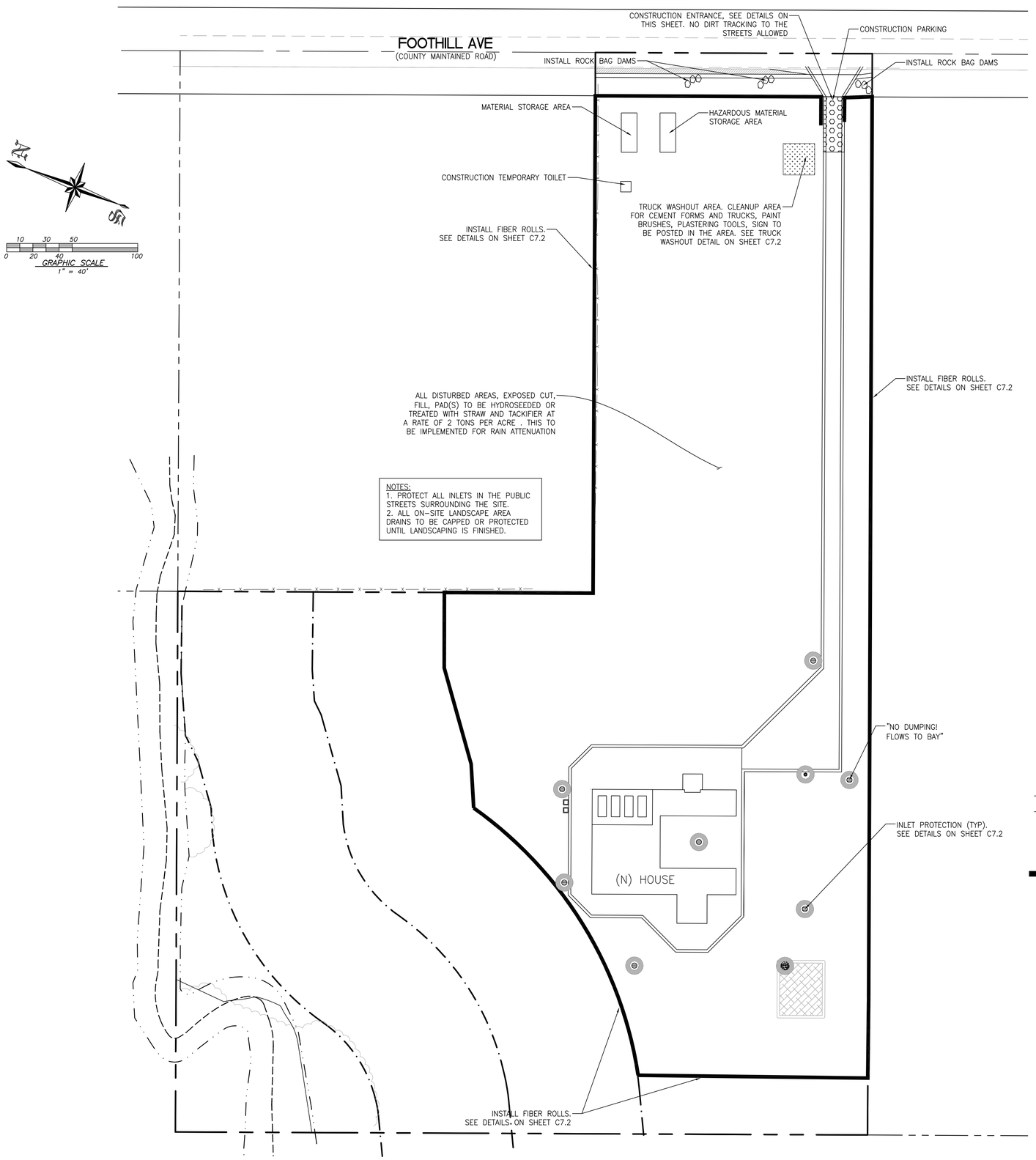
PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
COUNTY STANDARD DETAILS
11655 FOOTHILL AVE
CITY OF GILROY CALIFORNIA
Project No.: 1393 Designed: J.O. Checked: O.O. Date: 11/8/24

SHEET C5 OF 13 SHEETS



CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

EROSION & SEDIMENT CONTROL NOTES

1. NOT USED
2. THE DEVELOPER IS RESPONSIBLE FOR ENSURING THAT ALL CONTRACTORS AND SUBCONTRACTORS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION BEST MANAGEMENT PRACTICES WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, AND/OR STOP ORDERS.
3. ANY VEHICLE OR EQUIPMENT WASHING/STEAM CLEANING MUST BE DONE AT AN APPROPRIATELY EQUIPPED FACILITY WHICH DRAINS TO THE SANITARY SEWER. OUTDOOR WASHING MUST BE MANAGED IN SUCH A WAY THAT THERE IS NO DISCHARGE OF SOAPS, SOLVENTS, CLEANING AGENTS OR OTHER POLLUTANTS TO THE STORM DRAINS. WASH WATER SHALL DISCHARGE TO THE SANITARY SEWER, SUBJECT TO REVIEW AND APPROVAL OF UNION SANITARY DISTRICT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LITTER CONTROL AND SWEEPING OF ALL PAVED SURFACES DURING CONSTRUCTION.
5. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 15. EROSION CONTROL MEASURES ARE TO BE FUNCTIONAL PRIOR TO OCTOBER 1ST OF ANY YEAR GRADING OPERATIONS HAVE LEFT AREAS UNPROTECTED FROM EROSION.
6. ALL ON-SITE STORM DRAINS SHALL BE CLEANED IMMEDIATELY BEFORE THE START OF THE RAINY SEASON BEGINNING ON OCTOBER 1ST EACH YEAR, SUBJECT TO THE REVIEW OF THE BUILDING/ENGINEERING INSPECTOR.
7. IF RAINY WEATHER BECOMES IMMINENT, GRADING OPERATIONS SHALL BE STOPPED AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PROTECT DISTURBED AREAS.
8. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
9. CONSTRUCTION ENTRANCES SHALL CONSIST OF A MINIMUM 8" THICK LAYER OF 3"-4" FRACTURED STONE AGGREGATE UNLAID WITH GEOTEXTILE LINER FOR A MINIMUM DISTANCE OF 50 FEET, AND IS TO BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. THE DEPTH AND LENGTH OF AGGREGATE MAY NEED TO BE ADJUSTED IN THE FIELD TO ENSURE NO TRACKING OF SEDIMENT ONTO EXISTING PAVED STREETS. CONSTRUCTION ENTRANCES SHALL SLOPE AWAY FROM EXISTING PAVED STREETS.
10. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL MEASURES ARE TO BE BLOCKED UNLESS THE AREA DRAINED IS UNDISTURBED OR STABILIZED.
11. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTORL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.
12. NO STRAW BALES OR SILT FENCES SHALL BE USED AS EROSION CONTROL MEASURES. SILT FENCES MAY ONLY BE USED AS A PHYSICAL BARRIER TO PREVENT VEHICULAR AND PEDESTRIAN TRAFFIC FROM USING NON-APPROVED ACCESS POINTS (E.G. - ALONG RIGHT-OF-WAY).
13. ALL DISTURBED AREAS INCLUDING FLAT PADS ARE TO BE TREATED WITH STRAW AND TACKIFIER AT A RATE OF 2 TONS PER ACRE APPROXIMATELY 3 INCHES THICK.

SUPPLEMENTAL EROSION & SEDIMENT CONTROL NOTES

1. SEE STANDARD EROSION & SEDIMENT CONTROL NOTES ABOVE.
2. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 15. FACILITIES ARE TO BE OPERABLE PRIOR TO OCTOBER 1 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE WAYS.
4. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE COUNTY.
5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE COUNTY REPRESENTATIVE OF ANY FIELD CHANGES.

LEGEND

PROPOSED	DESCRIPTION
	SITE BOUNDARY
	STABILIZED CONSTRUCTION ENTRANCE 4"-6" ROCK (MIN)
	FIBER ROLL

MAINTENANCE NOTES

MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:

1. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING DAY.
2. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
3. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
4. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINIAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1 FOOT.
5. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
6. RILLS AND GULLIES MUST BE REPAIRED.

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

REVISIONS	BY	CITY	DATE

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

P. Oscar Osuna
PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6-30-25

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PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
EROSION CONTROL PLAN
11655 FOOTHILL AVE
CITY OF GILROY CALIFORNIA

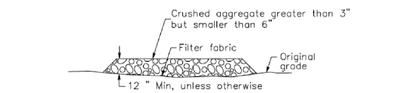
Project No.: 1323	Designed: JD/TMM	Checked: O.O.	Date: 11/8/24

SHEET
C6
OF 13 SHEETS

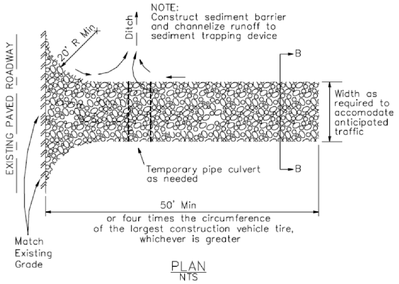
APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17-10900 G

3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



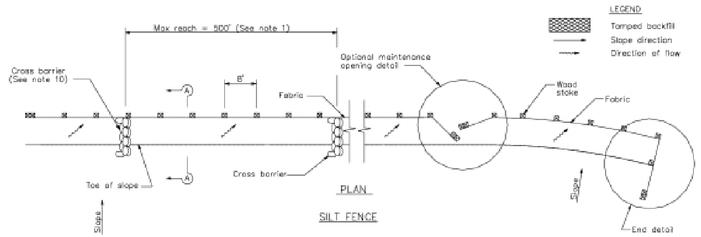
SECTION B–B
NTS



PLAN
NTS

1 Silt Fence

CASQA Detail SE-1

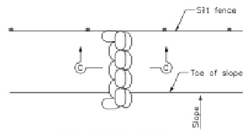


PLAN

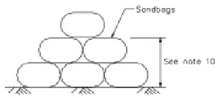
SILT FENCE

NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500'.
2. The last B'–0" of fence shall be turned up slope.
3. Stake dimensions are nominal.
4. Dimension may vary to fit field condition.
5. Stakes shall be spaced at B'–0" maximum and shall be positioned on downstream side of fence.
6. Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
7. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. Minimum 4 staples per stake. Dimensions shown are typical.
10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
12. Joining sections shall not be placed at sump locations.
13. Sandbag rows and layers shall be offset to eliminate gaps.



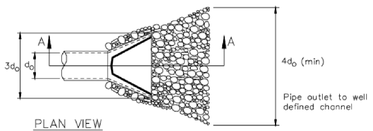
CROSS BARRIER DETAIL



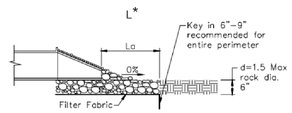
SECTION C–C

4 Velocity Dissipation Devices

CASQA Detail EC-10



PLAN VIEW

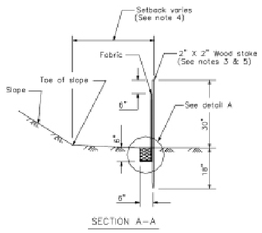


SECTION A–A

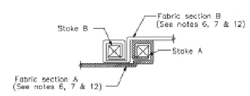
* Length per ABAG Design Standards

2 Silt Fence

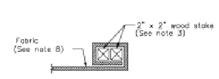
CASQA Detail SE-1



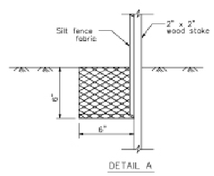
SECTION A–A



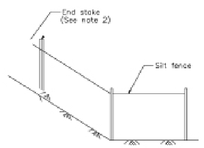
JOINING SECTION DETAIL (TOP VIEW)



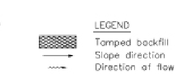
END STAKE DETAIL (TOP VIEW)

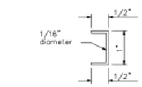


DETAIL A

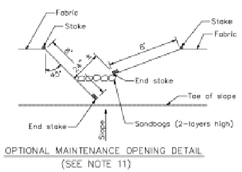


END DETAIL





STAPLE DETAIL
(SEE NOTE 9)



OPTIONAL MAINTENANCE OPENING DETAIL
(SEE NOTE 11)

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from www.cabmphandbooks.com.

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. Hazardous Waste Management: 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. Spill Prevention and Control: 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. Vehicle and Construction Equipment Service and Storage: An area shall be designated for the maintenance, where on-site 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. Material Delivery, Handling and Storage: 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. Handling and Disposal of Concrete and Cement: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
7. Pavement Construction Management: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
8. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
9. Sanitary/Septic Water Management: 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.

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. Inspection & Maintenance: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
4. Project Completion: 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.

Project Information

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

BMP-1

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

REVISIONS | BY | CITY | DATE

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
No. 70829
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA
P. Oscar Osuna
PORFIRIO OSCAR OSUNA
RCE 70829 EXP. 6-30-25

OSUNA ENGINEERING INC.
Planning | Surveying | Civil Engineering
CONSULTING CIVIL ENGINEERS & LAND SURVEYORS
1949 O' TOOLE WAY SAN JOSE, CA 95131
TEL. (408) 721-2100
Info@osunaengineering.com

PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
COUNTY BMP SHEET
11655 FOOTHILL AVE
CALIFORNIA

Project No.: 1323	Designed: J.O.	Checked: O.O.	Date: 11/8/24

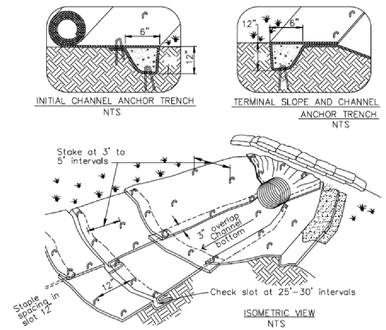
CITY OF GILROY

SHEET
C7.1
OF 13 SHEETS

APPLICANT: CHEN ROAD: FOOTHILL AVE FILE NO.: LDE17–10900 G

7 Geotextiles and Mats

CASQA Detail EC-7

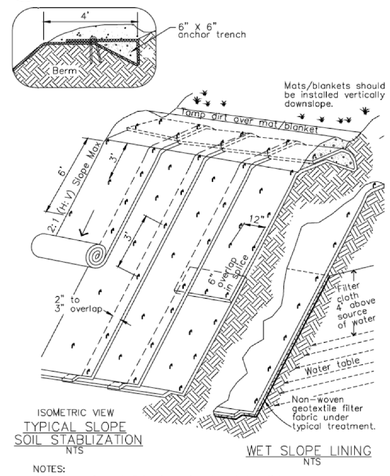


NOTES:
1. Check slots to be constructed per manufacturers specifications.
2. Staking or stapling layout per manufacturers specifications.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

5 Geotextiles and Mats

CASQA Detail EC-7

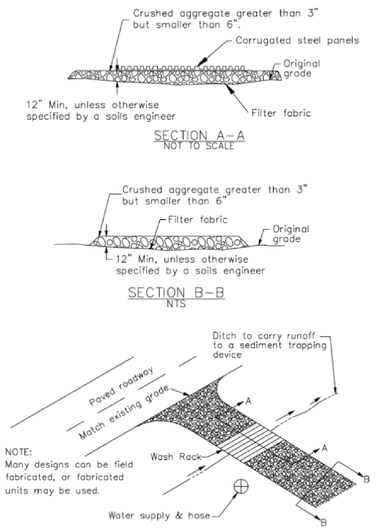


NOTES:
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

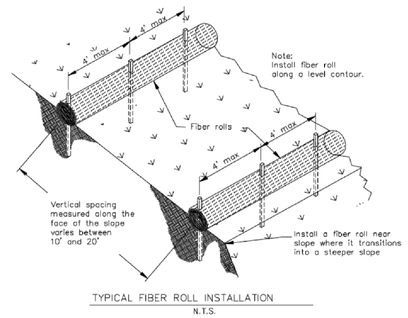
3 Entrance/Outlet Tire Wash

CASQA Detail TC-3



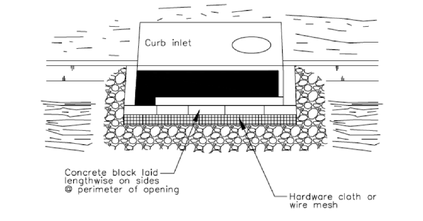
1 Fiber Rolls

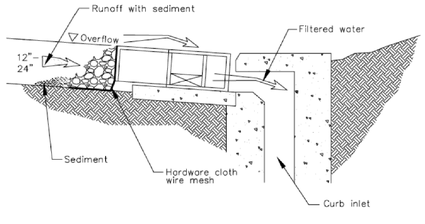
CASQA Detail SE-5



8 Storm Drain Inlet Protection

CASQA Detail SE-10



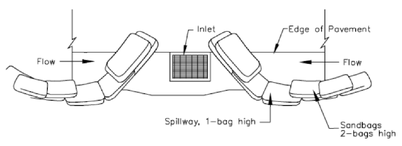


DI PROTECTION – TYPE 4
NOT TO SCALE

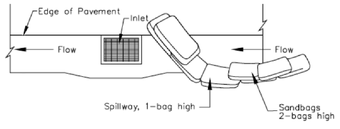
Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from www.cabmphandbooks.com.

6 Storm Drain Inlet Protection

CASQA Detail SE-10



TYPICAL PROTECTION FOR INLET ON SUMP



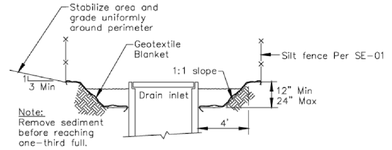
TYPICAL PROTECTION FOR INLET ON GRADE

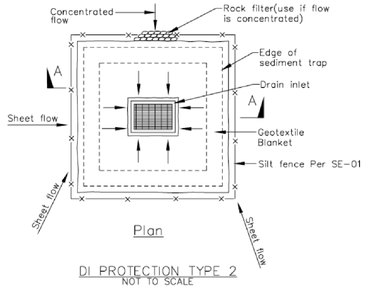
NOTES:
1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3
NOT TO SCALE

4 Storm Drain Inlet Protection

CASQA Detail SE-10



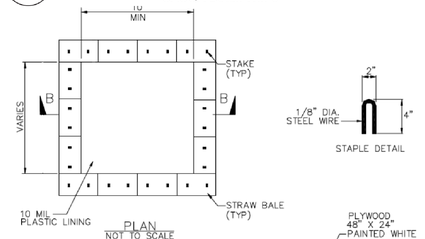


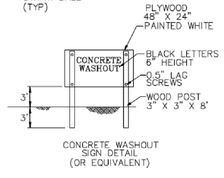
DI PROTECTION TYPE 2
NOT TO SCALE

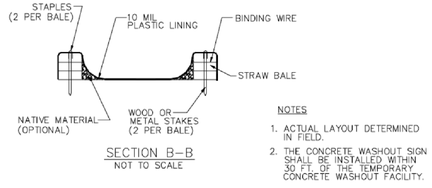
Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

2 Concrete Waste Management

CASQA Detail WM-8







NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Project Information

Best Management Practices and Erosion Control Details Sheet 2
County of Santa Clara

BMP-2

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

REVISIONS | BY | CITY | DATE

REGISTERED PROFESSIONAL ENGINEER
PORFIRIO OSCAR OSUNA
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Exp. 6-30-25
CIVIL
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P. Oscar Osuna
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PUBLIC IMPROVEMENTS AND GRADING & DRAINAGE PLAN
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11655 FOOTHILL AVE
CITY OF GILROY | CALIFORNIA
Project No.: 1383 | Designed: J.O. | Checked: O.O. | Date: 11/8/24

SHEET
C7.2
OF 13 SHEETS

APPLICANT: CHEN | ROAD: FOOTHILL AVE | FILE NO.: LDE17-10900 G