

COUNTY OF SANTA CLARA

General Construction Specifications

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY EARTH SYSTEMS PACIFIC & DATED JULY 25, 2018. 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 06-18).
- THESE PLANS ARE THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

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

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. ASPHALT CONCRETE IS INSPECTED IN PLACE.
- 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 TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAID ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEARING AND GRUBBING)

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

UTILITY LOCATION, TRENCHING & BACKFILL

- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE FINISHES. 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.

STORM DRAINAGE AND STORM WATER MANAGEMENT

- 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.
- 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 CURBETS 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 TO THE STREET.
- THE COUNTY ENGINEERING INSPECTOR SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS PRIOR TO BACKFILL.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FRESH PAVED, 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.
- 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.
- 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.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
- ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS: OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OF THE COUNTY APPLICABLE AGENCY IF REQUIRED.
 - 15 MILES PER HOUR (MPH) SPEED LIMIT
 - 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
 - TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST CONTROL. PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAINT HOTLINE OF 1-800-334-6367.
- ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
- 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.
- ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SPECIFICATIONS.
- ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATORS 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.
- PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 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.
- THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST 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:
 - PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
 - 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.
- 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 AREA'S, ECT. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- 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 AND SITUATIONALLY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

ACCESS ROADS AND DRIVEWAYS

- 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 APPROX 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.
- THE OWNER AND PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
- ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC.

STREET LIGHTING

- PACIFIC GAS & ELECTRIC ELECTROLEU 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.
- 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.

RETAINING WALLS

- 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.
- SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

TREE PROTECTION

- 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:
 - FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRUPLINE 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 SHALL BE INSTALLED AND THE FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5700. 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 PLACE AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
- SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

GRADING

- EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IT SHALL BE STRIPPED OF ALL VEGETATION. TO AGHUE 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 KEVED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL BROUGHT TO A WATER TABLE THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE. EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
 - 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.
 - NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
 - THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
 - MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL 2 HORIZONTAL TO 1 VERTICAL.
- | | | |
|-------------------------------|-----|-------------|
| ESTIMATED VOLUME OF CUT(SITE) | 184 | CUBIC YARDS |
| FILL (SITE) | 484 | CUBIC YARDS |
| MAXIMUM DEPTH OF CUT (SITE) | 6.0 | FEET |
| FILL (SITE) | 6.0 | FEET |
- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.
- NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
 - ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
 - THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%
 - ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
 - 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.
 - 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.
 - GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
 - TOTAL DISTURBED AREA FOR THE PROJECT **8,535 SF (INCLUDING OFF-SITE)**
 - WDD NO. **N/A**
 - 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.

PORTLAND CEMENT CONCRETE

- 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.

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: _____

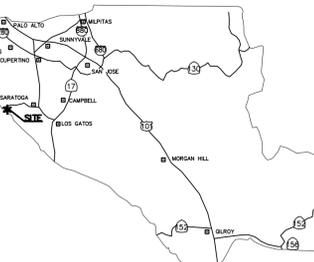
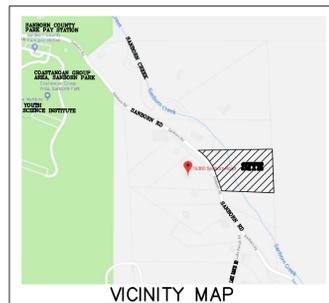
NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

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

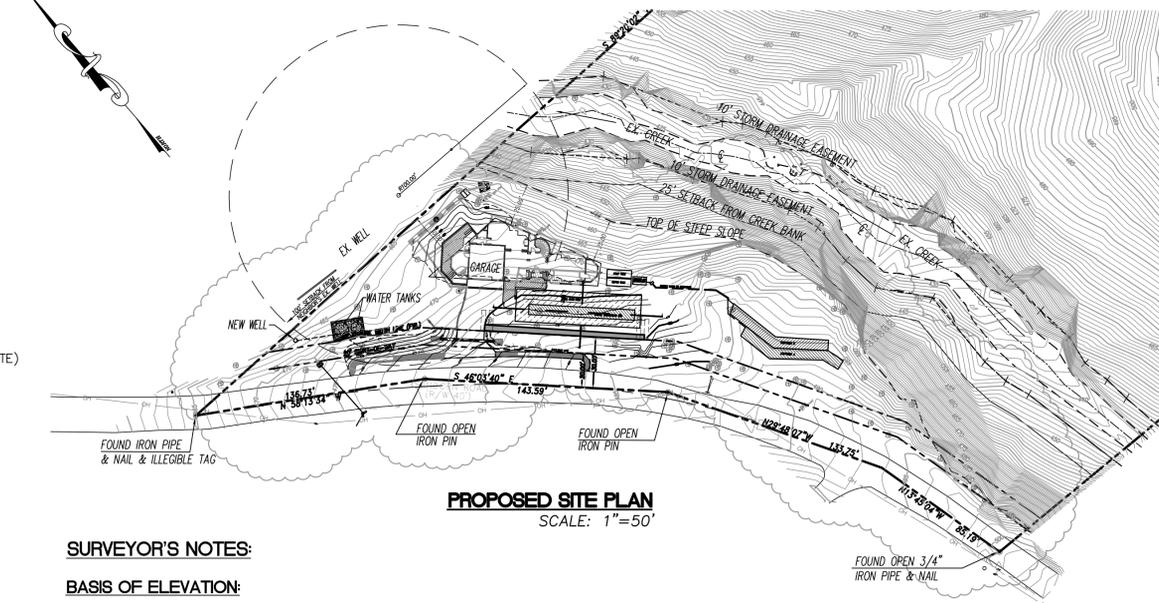
CONSTRUCTION / ENCROACHMENT / GRADING PERMIT

PERMIT(S) NO.: _____
 FILE(S) NO.: _____
 ISSUED BY: _____ DATE: _____
 LAND DEVELOPMENT ENGINEERING & SURVEYING
 DEVELOPMENT SERVICES OFFICE
 COUNTY OF SANTA CLARA



COUNTY LOCATION MAP

BUILDING SITE APPROVAL, DESIGN REVIEW AND GRADING ABATEMENT PLANS FOR LANDS OF NAMIT GUPTA & SHIVI AGARWAL 16365 SANBORN ROAD, SARATOGA, CA



PROPOSED SITE PLAN
SCALE: 1"=50'

SURVEYOR'S NOTES:

BASIS OF ELEVATION:
ASSUMED ELEVATION OF 500.00 AT A SET MAG NAIL SET BY SMP ENGINEERS

HIGH PRIORITY STORMWATER INSPECTION SITE
MONTHLY CONSTRUCTION SITE CONTROL INSPECTION IS REQUIRED.

LEGEND

DESCRIPTION	TO BE CONST.	EXISTING
PROPERTY LINE	---	---
CURB AND GUTTER	---	---
CITY SURVEY MONUMENT	---	●
SEPTIC TIGHT-LINE	---	---
SEPTIC TANK	□	---
STORM SEWER	---	---
DAYLIGHT LINE	---	---
ELECTROLEU	---	☆
EDGE OF PAVEMENT	---	---

GRADING QUANTITIES BY AREA

AREA	QUANTITIES (CY)		MAX. DEPTHS (FT)	
	CUT	FILL	CUT	FILL
BUILDING FOOTPRINT	0	80	0.0'	5.7'
DRIVEWAY	2	40	0.1'	3.0'
LANDSCAPING & OTHER IMPROVEMENTS (REST OF SITE)	0	180	0.0'	6.0'
GRADING ABATEMENT (GRADE RESTORATION) SEE SHEET C7	210	9	6.0'	0.2'
SEPTIC AREA (REVISED GRADING) SEE SHEET C8	0	145	0.0'	4.0'
SITE TOTAL	212	454		

COUNTY OF SANTA CLARA
DEPARTMENT OF ROADS AND AIRPORTS

ISSUED BY: _____ DATE: _____
 ENCROACHMENT PERMIT NO. _____

COUNTY OF SANTA CLARA
LAND DEVELOPMENT ENGINEERING & SURVEYING

CONSTRUCTION PERMIT NO. _____
 GRADING PERMIT NO. _____
 ISSUED BY: _____ DATE: _____

ENGINEER'S STATEMENT

I HERBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED 3/21/2019 FILE(S) NO. PLN18-11220

DATE: _____ SIGNATURE: _____

COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITEE 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: _____ SIGNATURE: _____

CHRISTOPHER L. FREITAS
R.C.E. NO. 42107 EXPIRATION DATE 3/31/22

ENGINEER'S NAME: DILIP KISHNANI, PE, QSD
 PRINCIPAL, STERLING CONSULTANTS

ADDRESS: 46560 FREMONT BLVD, SUITE 205
 FREMONT, CA 94538

PHONE NO. 510-344-8956
 FAX NO. N/A
 PREPARED BY: _____

STERLING CONSULTANTS

46560 FREMONT BOULEVARD, UNIT NO. 205
 FREMONT, CA 94538
 Isterlingconsultants@gmail.com PHONE: 510.344.8956

Rev.1	APN 517-33-015	Sheet 1 of 13
Rev.2	Co. File	
Rev.3	PLN18-11220 / 21-093	

PLAN # _____ OF SHEET _____

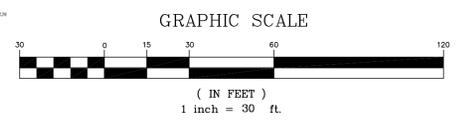


DEVELOPMENT AREA SLOPE DENSITY

$$S = \frac{(0.0023)(791.33)(5)}{0.36} = 25.3\%$$

LEGEND

SYMBOL	DESCRIPTIONS	ABBREVIATIONS
---	BOUNDARY / RIGHT-OF-WAY LINE	AC AIR CONDITIONER UNIT
---	EASEMENT LINE	AD AREA DRAIN
---	CENTERLINE (⊙)	BSW BACK OF WALK
---	RETAINING WALL	BW BOTTOM OF WALL (EXPOSED FACE)
---	SANITARY SEWER LINE AND MANHOLE OR CLEANOUT	CONC. CONCRETE
---	DRAIN INLET	DBH DIAMETER AT BREST HEIGHT
---	PERCENT GRADE	DI DRAIN INLET
---	EXISTING GRADE ELEVATION	DS DOWNSPOUT
---	EXISTING CONTOUR w/ ELEVATION	EP EDGE OF PAVEMENT
---	EXISTING TREE w/ DBH	EM ELECTRIC METER
		EX EXISTING
		FF FINISHED FLOOR ELEVATION
		FG FINISHED GRADE ELEVATION
		FL FLOW LINE ELEVATION
		FW FACE OF WALL
		GM GAS METER
		MB MAIL BOX
		O/H OVERHEAD
		PL PROPERTY LINE
		PUE PUBLIC UTILITY EASEMENT
		R= RADIUS OF CURVE
		Δ= INCLUDED ANGLE OF CURVE
		L= LENGTH OF CURVE
		SSCO SANITARY SEWER CLEAN-OUT
		WM WATER METER



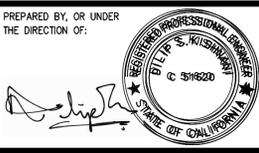
BENCHMARK: ASSUMED ELEVATION OF 500.00 AT A SET MAG NAIL SET BY SMP ENGINEERS.

BASIS OF BEARINGS: HELD CALCULATED BEARING OF N47°06'31"W BETWEEN SW CORNER OF PARCEL "B" AND NW CORNER OF PARCEL "A", DISTANCE = 962.22 (MEASURED); 962.32 (RECORD) AS SHOWN ON THE RECORD OF SURVEY FILED IN BOOK 199 AT PAGE 7, SANTA CLARA COUNTY RECORDS.

BOUNDARY: TOPOGRAPHIC SURVEY AS SHOWN WAS DONE BY SMP ENGINEERS IN FEBRUARY 2018.

ELEVATIONS SHOWN ABOVE WERE VERIFIED AND AN INDEPENDENT BOUNDARY SURVEY WAS PERFORMED BY HELMUT KORSTIG, PLS IN MAY 2018.

DATE: FEBRUARY 18, 2022				
SCALE: AS SHOWN				
DRAWN: DSK				
DESIGNED: DSK				
ENGINEER: DSK				
MANAGER: DSK				
NO.	BY	DATE	REVISIONS	CITY APPR



PREPARED BY:
STERLING CONSULTANTS
 46560 FREMONT BOULEVARD, UNIT NO. 205
 FREMONT, CA 94538
 1sterlingconsultants@gmail.com

PREPARED FOR:
 WAKIL RAZZAQUI
 3084 CANTON ROAD
 SAN JOSE, CA 95127

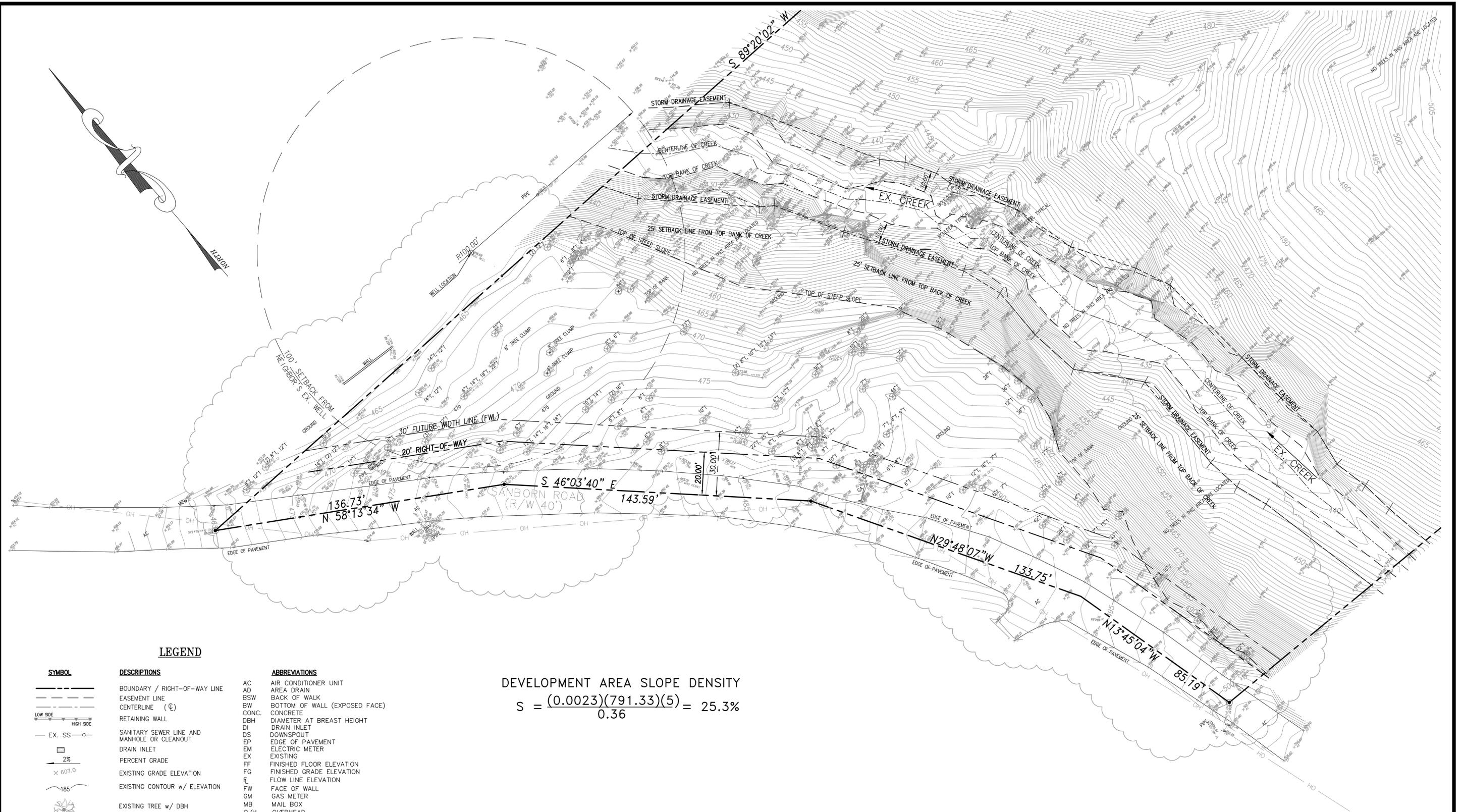
GRADING & DESIGN REVIEW / GRADING ABATEMENT
 16365 SANBORN ROAD
BOUNDARY & TOPOGRAPHIC SURVEY
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

SHEET NO. **C2**
 2 OF 13 SHEETS
 JOB NO. 2018-343

APPLICANT: WAKIL RAZZAQUI

ROAD: SANBORN

COUNTY FILE NO.: PLN18-11220
 PLN21-093

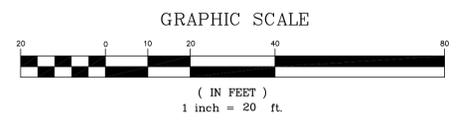


LEGEND

SYMBOL	DESCRIPTIONS	ABBREVIATIONS
---	BOUNDARY / RIGHT-OF-WAY LINE	AC AIR CONDITIONER UNIT
- - -	EASEMENT LINE	AD AREA DRAIN
⊙	CENTERLINE (⊙)	BSW BACK OF WALK
---	RETAINING WALL	BW BOTTOM OF WALL (EXPOSED FACE)
---	SANITARY SEWER LINE AND MANHOLE OR CLEANOUT	CONC. CONCRETE
⊙	DRAIN INLET	DBH DIAMETER AT BREAST HEIGHT
---	PERCENT GRADE	DI DRAIN INLET
---	EXISTING GRADE ELEVATION	DS DOWNSPOUT
---	EXISTING CONTOUR w/ ELEVATION	EP EDGE OF PAVEMENT
---	EXISTING TREE w/ DBH	EM ELECTRIC METER
		EX EXISTING
		FF FINISHED FLOOR ELEVATION
		FG FINISHED GRADE ELEVATION
		FL FLOW LINE ELEVATION
		FW FACE OF WALL
		GM GAS METER
		MB MAIL BOX
		O/H OVERHEAD
		PL PROPERTY LINE
		PUE PUBLIC UTILITY EASEMENT
		R= RADIUS OF CURVE
		Δ= INCLUDED ANGLE OF CURVE
		L= LENGTH OF CURVE
		SSCO SANITARY SEWER CLEAN-OUT
		WM WATER METER

DEVELOPMENT AREA SLOPE DENSITY

$$S = \frac{(0.0023)(791.33)(5)}{0.36} = 25.3\%$$



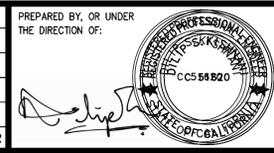
BENCHMARK: ASSUMED ELEVATION OF 500.00 AT A SET MAG NAIL SET BY SMP ENGINEERS.

BASIS OF BEARINGS: HELD CALCULATED BEARING OF N47°06'31"W BETWEEN SW CORNER OF PARCEL "B" AND NW CORNER OF PARCEL "A", DISTANCE = 962.22 (MEASURED); 962.32 (RECORD) AS SHOWN ON THE RECORD OF SURVEY FILED IN BOOK 199 AT PAGE 7, SANTA CLARA COUNTY RECORDS.

BOUNDARY: TOPOGRAPHIC SURVEY AS SHOWN WAS DONE BY SMP ENGINEERS IN FEBRUARY 2018.

ELEVATIONS SHOWN ABOVE WERE VERIFIED AND AN INDEPENDENT BOUNDARY SURVEY WAS PERFORMED BY HELMUT KORSTICK, PLS IN MAY 2018.

DATE: FEBRUARY 18, 2022				
SCALE: AS SHOWN				
DRAWN: DSK				
DESIGNED: DSK				
ENGINEER: DSK				
MANAGER: DSK				
NO.	BY	DATE	REVISIONS	CITY APPR



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 1sterlingconsultants@gmail.com

PREPARED FOR:
 WAKIL RAZZAQUI
 3084 SANBORN RD
 SAN JOSE, CA 95127

GRADING & DESIGN REVIEW / GRADING ABATEMENT
 16365 SANBORN ROAD
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA
BOUNDARY & TOPOGRAPHIC SURVEY
 SHEET NO. **C3**
 3 OF 13 SHEETS
 JOB NO. 2018-343
 COUNTY FILE NO.: PLN18-11220
 PLN21-093

APPLICANT: WAKIL RAZZAQUI

ROAD: SANBORN

COUNTY FILE NO.: PLN18-11220
 PLN21-093

PLANNING OFFICE REVIEW
 Zoning: HS-5r
 Setbacks: Front 30' Sides 30' Rear 30'
 Max. Height: 35'
 APN #: 177-33-015
 This project conforms to current zoning requirements.
 By: *Colleen Kuehn* 3/17/19
 dated: 3-17-19 for residence & driveway - 7A approval
 1/20/19

Approval of City of all utilities
 former modification of S20240
 not subject to further hearings

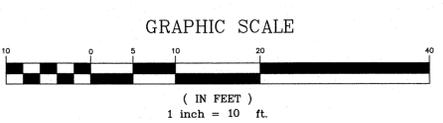
AREA OF UNPERMITTED GRADING

DETENTION PIPE CONTROL STRUCTURE DETAIL
 NOT TO SCALE

FOR REFERENCE ONLY. THIS PLAN IS THE APPROVED GRADING, DRAINAGE & UTILITY PLAN FOR PLN18-11220.

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UTILITY CONNECTIONS: A SEPARATE ENCROACHMENT PERMIT SHALL BE REQUIRED BY THE PROPERTY OWNER OR THE UTILITY COMPANY. IF PROPANE TANKS ARE PROPOSED, IT MUST BE LOCATED OUTSIDE THE RIGHT-OF-WAY.

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

DATE: FEB 07, 2020					
SCALE: AS SHOWN					
DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					
	NO.	BY	DATE	REVISIONS	CITY APPR

PREPARED BY, OR UNDER THE DIRECTION OF:

PREPARED BY:

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 46560 FREMONT BOULEVARD, UNIT NO. 205
 FREMONT, CA 94538
 1sterlingconsultants@gmail.com PHONE: 510.344.8956

PREPARED FOR:

NAMIT GUPTA & SHIVI AGARWAL
 3084 CRATER LANE
 SAN JOSE, CA 95132

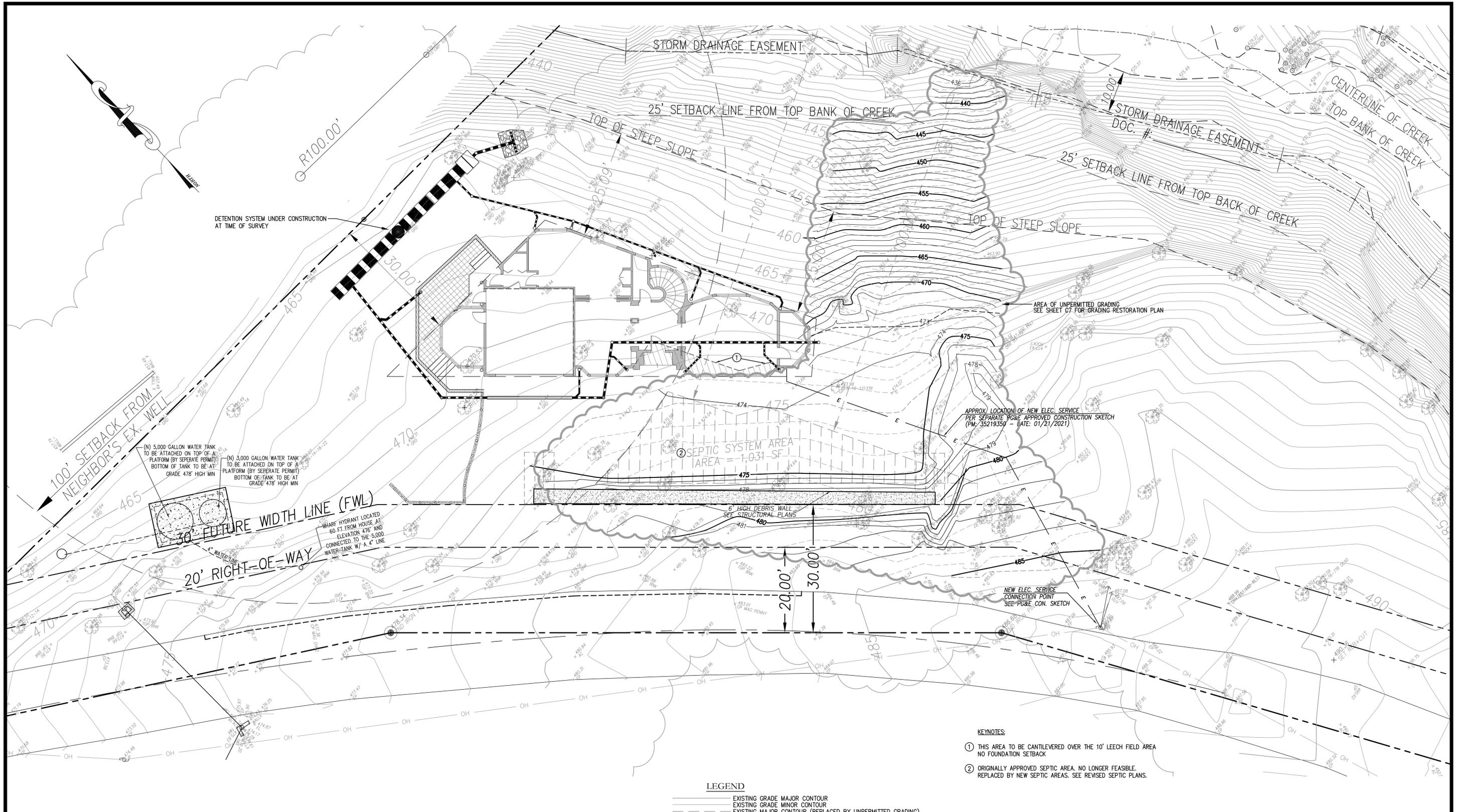
GRADING PERMIT / ENCROACHMENT PERMIT CONCURRENT REVIEW

GRADING, DRAINAGE & UTILITY PLAN

CITY OF SARATOGA (UN-INCORPORATED) SANTA CLARA COUNTY CALIFORNIA

SANBORN ROAD

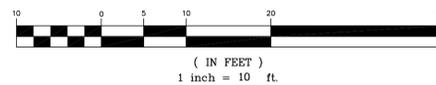
SHEET NO. **C4**
 4 OF 14 SHEETS
 JOB NO. 2018-343



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GRAPHIC SCALE



LEGEND

- EXISTING GRADE MAJOR CONTOUR
- EXISTING GRADE MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
- - - EXISTING MINOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
- OBSERVED GRADE MAJOR CONTOUR (AS SURVEYED MAY 2021)
- OBSERVED GRADE MINOR CONTOUR (AS SURVEYED MAY 2021)

KEYNOTES:

- ① THIS AREA TO BE CANTILEVERED OVER THE 10' LEECH FIELD AREA. NO FOUNDATION SETBACK.
- ② ORIGINALLY APPROVED SEPTIC AREA. NO LONGER FEASIBLE. REPLACED BY NEW SEPTIC AREAS. SEE REVISED SEPTIC PLANS.

GRADING VIOLATION: THIS PLAN SHOWS THE CONDITION OF THE SITE AT THE TIME OF SURVEY IN MAY 2021. SEE LEGEND AND PLAN FOR EXTENTS OF UNPERMITTED GRADING. NOTHING IS PROPOSED ON THIS PLAN SHEET.

DATE: FEBRUARY 18, 2022					
SCALE: AS SHOWN					
DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					
	NO.	BY	DATE	REVISIONS	CITY APPR

PREPARED BY, OR UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER
D. S. K. SHAW
C 51620
STATE OF CALIFORNIA

PREPARED BY:

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46560 FREMONT BOULEVARD, UNIT NO. 205
FREMONT, CA 94538
sterlingconsultants@gmail.com

PREPARED FOR:

WAKIL RAZZAQUI
30843 SANBORN ROAD
SARATOGA, CA 95070

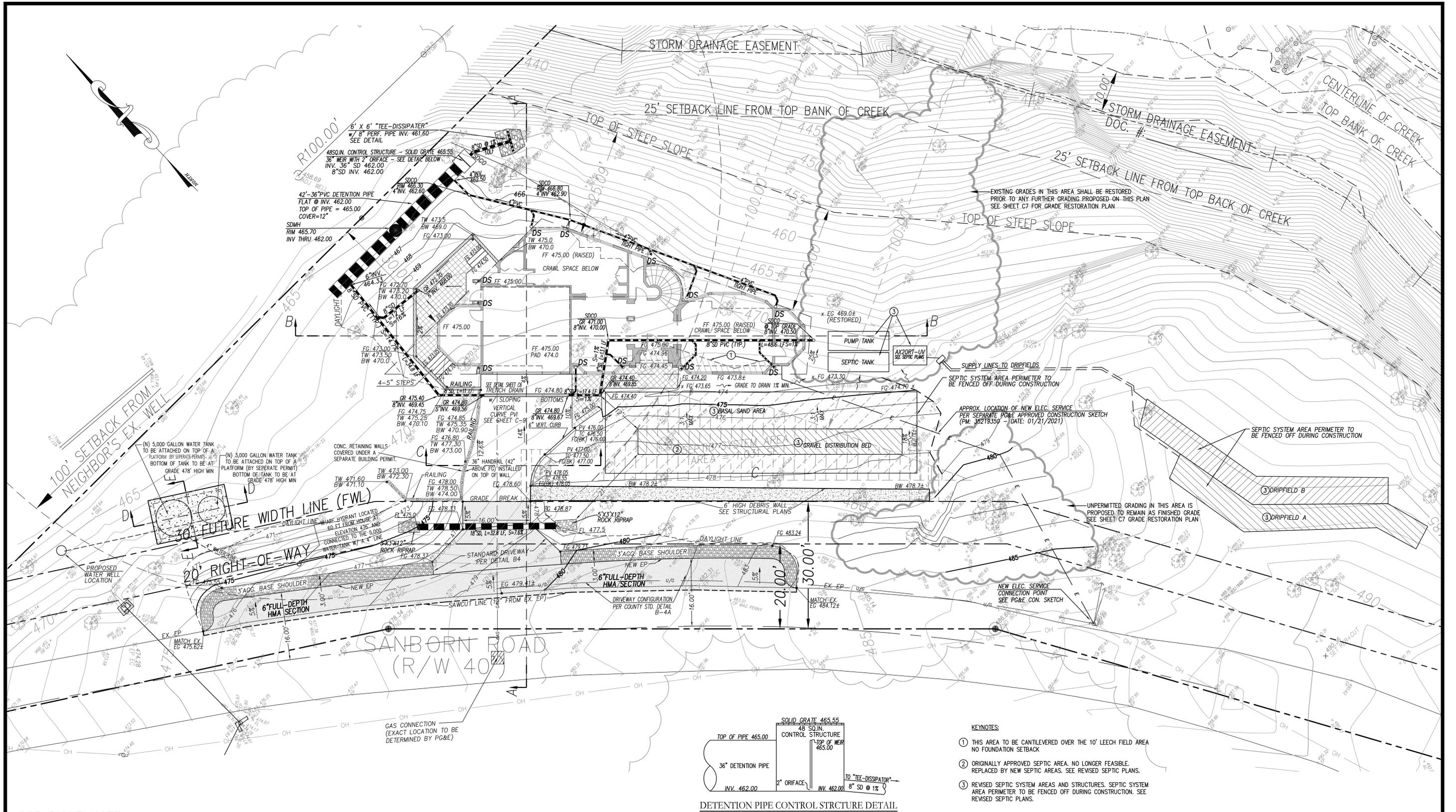
GRADING & DESIGN REVIEW / GRADING ABATEMENT

16365 SANBORN ROAD

CONDITION OF GRADING VIOLATION

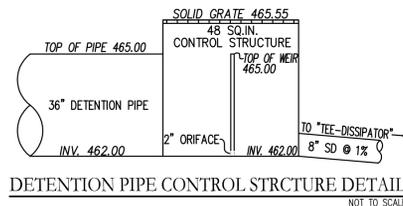
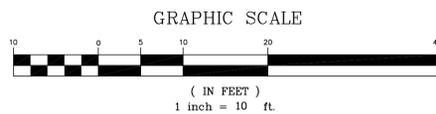
SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

SHEET NO. **C5**
5 OF 13 SHEETS
JOB NO. 2018-343



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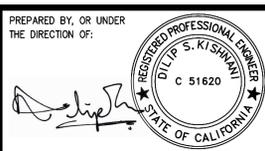
GRADING ABATEMENT: NO GRADING WORK PROPOSED ON THIS PLAN IS PERMITTED UNTIL THE GRADING ABATEMENT, AS SHOWN ON SHEET C7 GRADE RESTORATION PLAN, HAS BEEN COMPLETED TO THE SATISFACTION OF THE PROJECT SOILS ENGINEER AND COUNTY INSPECTOR.

KEYNOTES:

- ① THIS AREA TO BE CANTILEVERED OVER THE 10' LEACH FIELD AREA NO FOUNDATION SETBACK
- ② ORIGINALLY APPROVED SEPTIC AREA. NO LONGER FEASIBLE. REPLACED BY NEW SEPTIC AREAS. SEE REVISED SEPTIC PLANS.
- ③ REVISED SEPTIC SYSTEM AREAS AND STRUCTURES. SEPTIC SYSTEM AREA PERIMETER TO BE FENCED OFF DURING CONSTRUCTION. SEE REVISED SEPTIC PLANS.

UTILITY CONNECTIONS: A SEPARATE ENCROACHMENT PERMIT SHALL BE REQUIRED BY THE PROPERTY OWNER OR THE UTILITY COMPANY. IF PROPANE TANKS ARE PROPOSED, IT MUST BE LOCATED OUTSIDE THE RIGHT-OF-WAY.

DATE: FEBRUARY 18, 2022					
SCALE: AS SHOWN					
DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					
	NO.	BY	DATE	REVISIONS	CITY APPR

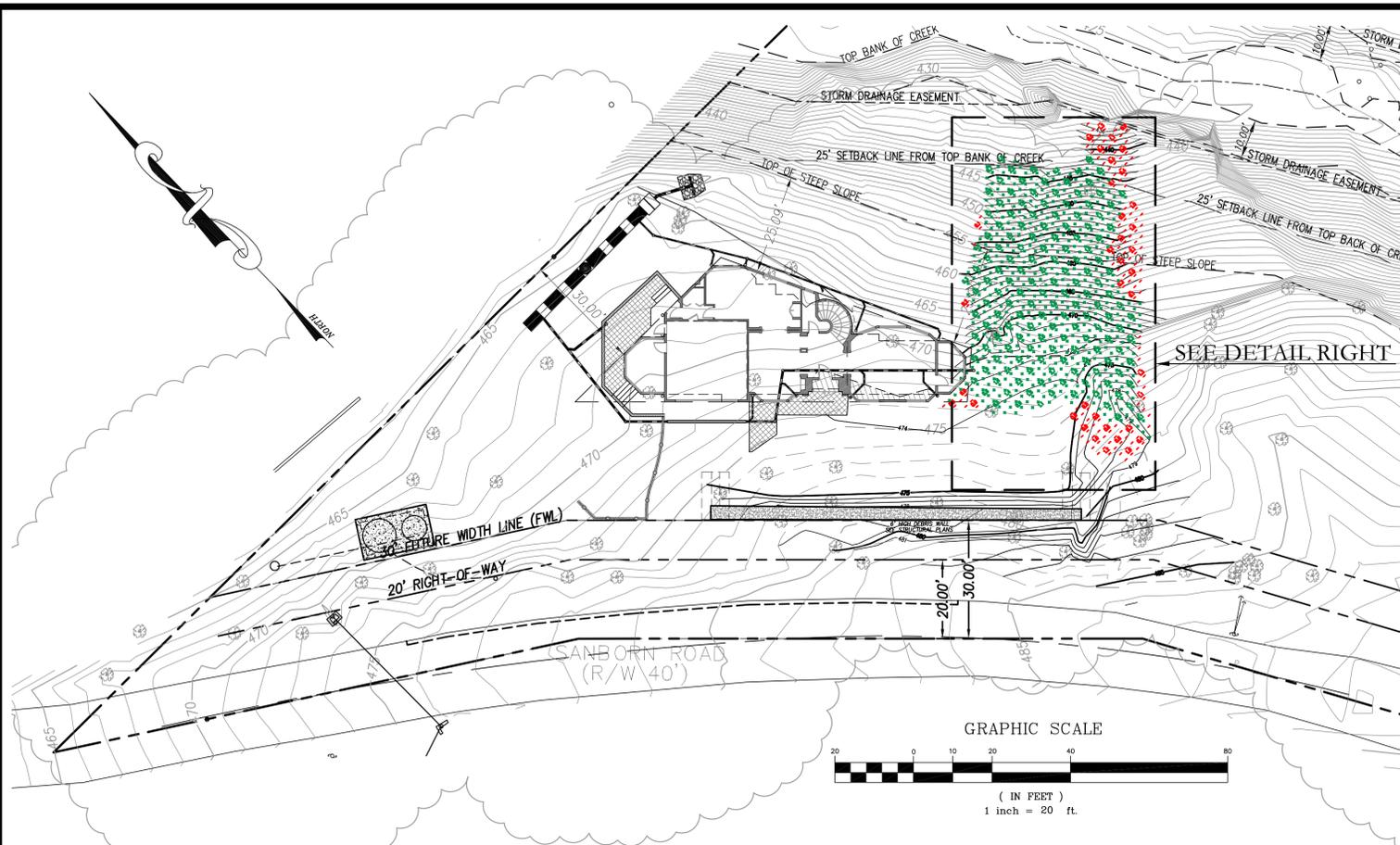


PREPARED BY: **STERLING CONSULTANTS**
 46560 FREMONT BOULEVARD, UNIT NO. 205
 FREMONT, CA 94538
 1sterlingconsultants@gmail.com

PREPARED FOR:
 WAKIL RAZZAQUI
 3084 SANBORN RD
 SARATOGA, CA 95070

GRADING & DESIGN REVIEW / GRADING ABATEMENT
GRADING, DRAINAGE & UTILITY PLAN
 (AFTER GRADING ABATEMENT)
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA
 16365 SANBORN ROAD

SHEET NO. **C6**
 6 OF 13 SHEETS
 JOB NO. 2018-343



LEGEND

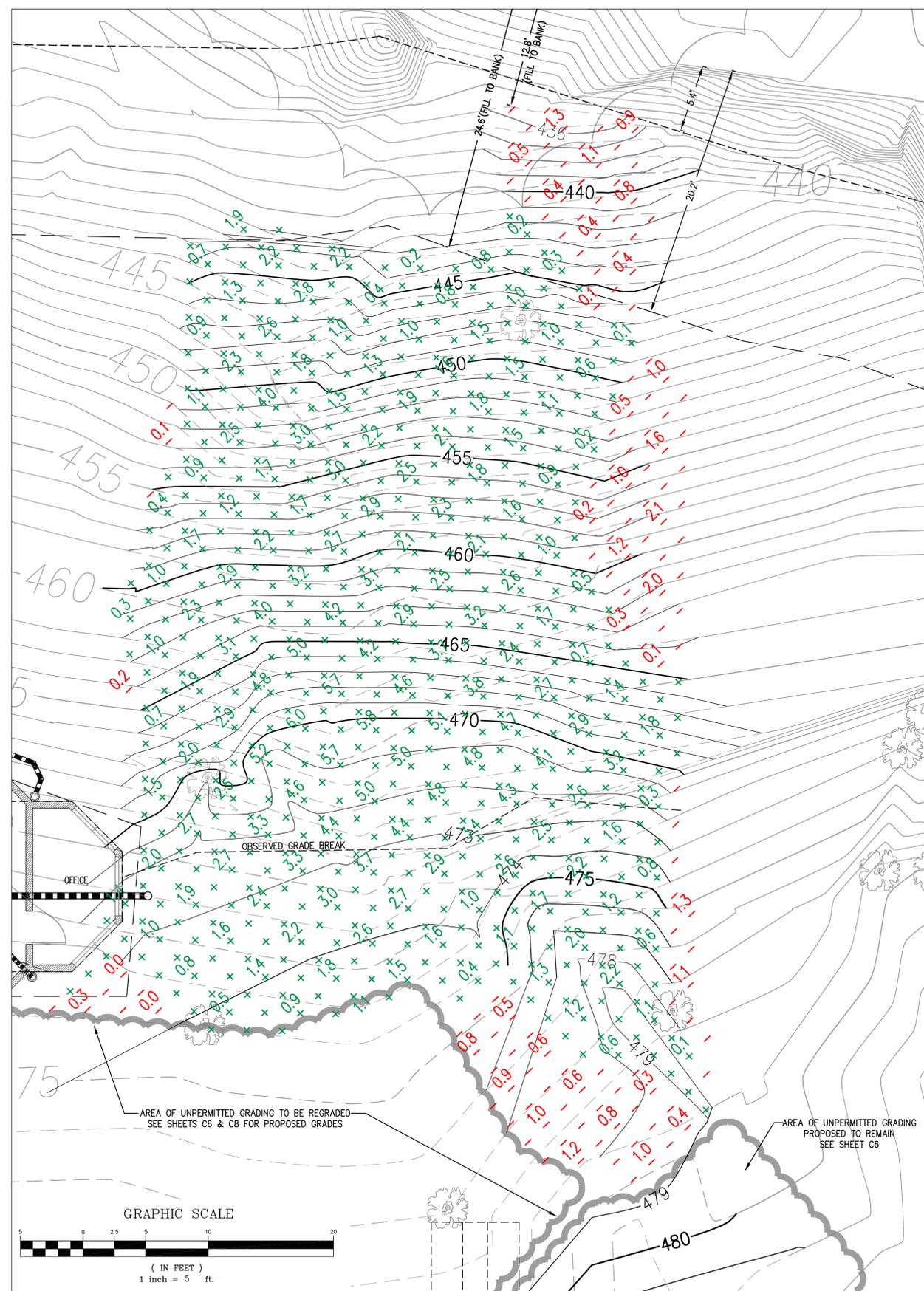
- EXISTING GRADE MAJOR CONTOUR
- EXISTING GRADE MINOR CONTOUR
- EXISTING MAJOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
- EXISTING MINOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
- OBSERVED GRADE MAJOR CONTOUR (AS SURVEYED MAY 2021)
- OBSERVED GRADE MINOR CONTOUR (AS SURVEYED MAY 2021)
- +2.0 DEPTH OF UNPERMITTED FILL (FEET)
- 2.0 DEPTH OF UNPERMITTED CUT (FEET)

EARTHWORK ESTIMATE

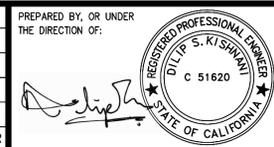
GRADING RESTORATION FOR CREEK SLOPE
(EXISTING GRADE VS SURVEYED GRADE)
CUT : 9 CY
FILL : 210 CY
210 CY OF CUT AND 9 CY OF FILL
TO RESTORE SLOPE TO EXISTING GRADE

GRADE RESTORATION NOTES:

1. PRIOR TO ANY OTHER GRADING ACTIVITIES, DEVELOPER SHALL REMOVE ALL UNPERMITTED FILL IN THE SLOPE BEHIND AND BESIDE THE NEW HOME TOWARDS THE CREEK (AS SHOWN IN DETAIL) UNDER THE RECOMMENDATIONS AND SUPERVISION OF THE PROJECT GEOTECHNICAL ENGINEER.
2. EXTENT OF SLOPE RESTORATION IS DENOTED IN THE DETAIL TO THE RIGHT AND SHOWN BY CUT AND FILL TICKS. IN THIS AREA, UNPERMITTED GRADING (SHOWN AS OBSERVED GRADE CONTOURS / BOLD SOLID LINES) SHALL BE RETURNED THE EXISTING GRADE (SHOWN AS EXISTING CONTOURS / GRAY DASHED LINES).
3. PROJECT GEOTECHNICAL ENGINEER SHALL INSPECT THE FINAL SITE CONDITIONS TO CONFIRM THAT THE ENTIRETY OF UN-PERMITTED FILL IN THE SLOPE HAS BEEN REMOVED AND THAT THE SLOPE IS STABLE.
4. PRIOR TO FINAL INSPECTION, DEVELOPER SHALL SUBMIT A CONSTRUCTION OBSERVATION LETTER THAT VERIFIES WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS.



DATE: FEBRUARY 18, 2022					
SCALE: AS SHOWN					
DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					
	NO.	BY	DATE	REVISIONS	CITY APPR

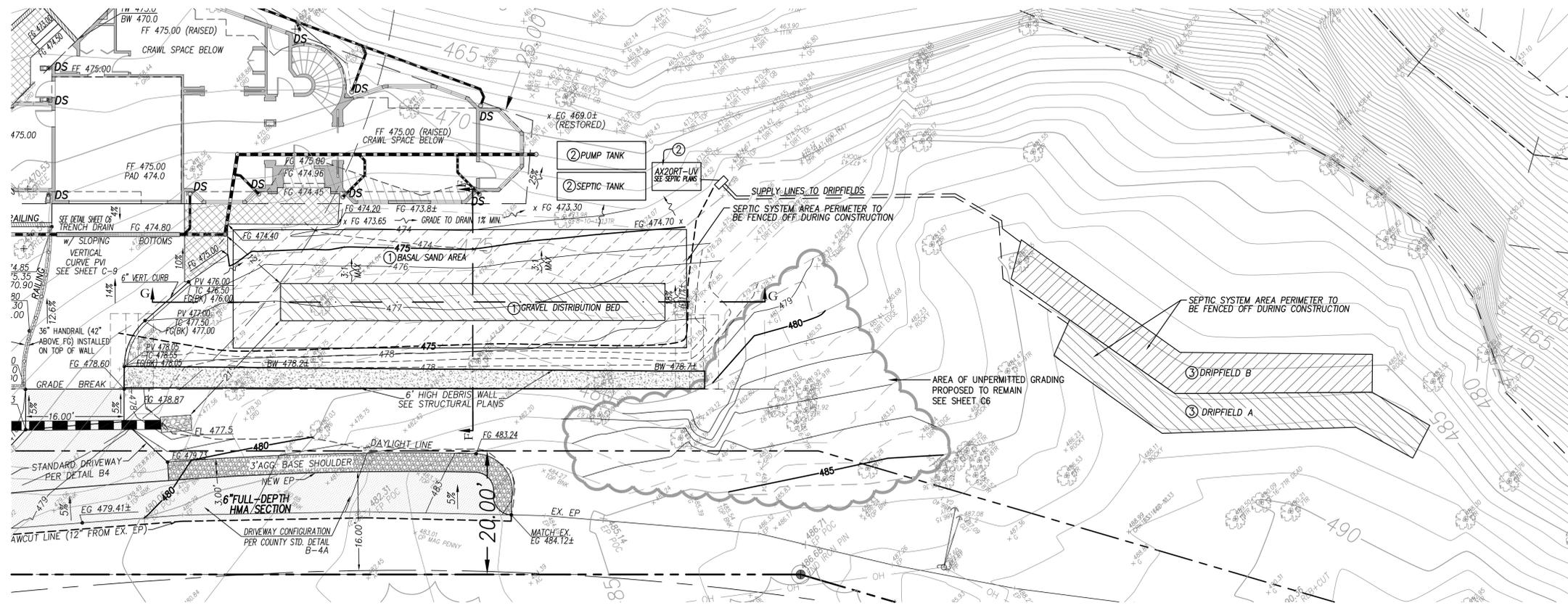


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FREMONT, CA 94538
sterlingconsultants@gmail.com

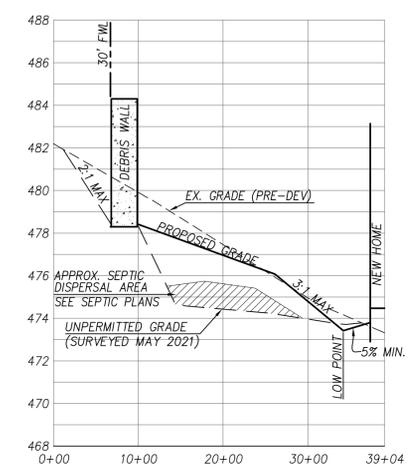
PREPARED FOR:
WAKIL RAZZAQUI
3084 SANBORN ROAD
SAN JOSE, CA 95130

GRADING & DESIGN REVIEW / GRADING ABATEMENT
16365 SANBORN ROAD
GRADE RESTORATION PLAN
SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

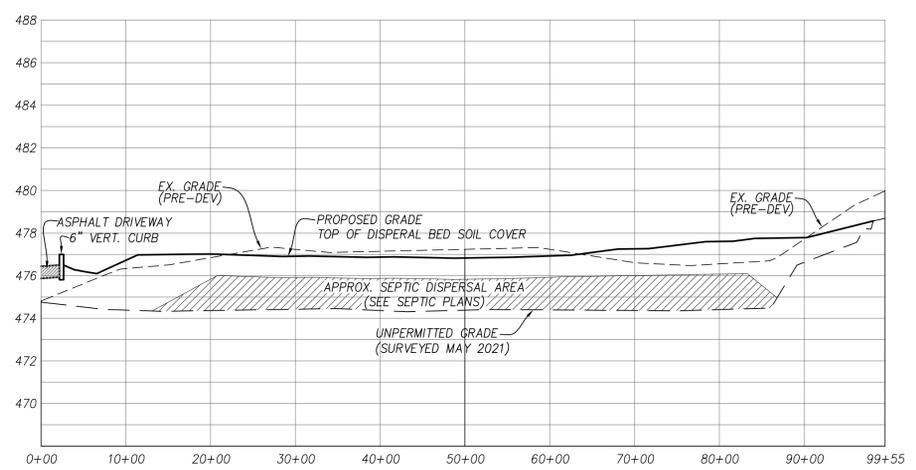
SHEET NO.
C7
7 OF 13 SHEETS
JOB NO.
2018-343



- KEYNOTES**
- ① NEW GRAVEL BED DISPERSAL AREA FOR MOUND SEPTIC FIELD. SEE SEPTIC PLANS FOR DETAILS. SEPTIC DETAILS, MATERIALS, AND DEPTHS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. SEPTIC SYSTEM AREA PERIMETER TO BE FENCED OFF DURING CONSTRUCTION.
 - ② NEW SEPTIC SYSTEM STRUCTURES. SEE SEPTIC PLANS FOR DETAILS.
 - ③ NEW DRIPFIELDS INSTALLED IN NATIVE SOIL. EXISTING SURFACE GRADES TO BE MAINTAINED POST DRIPFIELD CONSTRUCTION. SEE SEPTIC PLANS FOR DETAILS. SEPTIC SYSTEM AREA PERIMETER TO BE FENCED OFF DURING CONSTRUCTION.



SEPTIC SECTION - SECTION F-F
 SCALES: HORIZ: 1" = 10'
 VERT: 1" = 4'



SEPTIC SECTION - SECTION G-G
 SCALES: HORIZ: 1" = 10'
 VERT: 1" = 4'

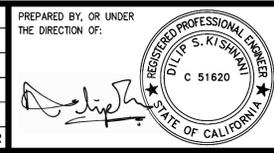
- LEGEND**
- EXISTING GRADE MAJOR CONTOUR
 - - - EXISTING GRADE MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
 - - - EXISTING MINOR CONTOUR (REPLACED BY UNPERMITTED GRADING)
 - - - UNPERMITTED GRADE MAJOR CONTOUR TO BE REGRADED
 - - - UNPERMITTED GRADE MINOR CONTOUR TO BE REGRADED
 - PROPOSED FINISHED GRADE CONTOUR

EARTHWORK ESTIMATE

DISPERSAL SEPTIC AREA (EXISTING GRADE VS SURVEYED GRADE)	
CUT :	181 CY
FILL :	21 CY
DISPERSAL SEPTIC AREA (CURRENT (SURVEYED) GRADE VS PROPOSED GRADE)	
CUT :	0 CY
FILL :	145 CY

145 CY OF FILL PROPOSED IN THE NEW DISPERSAL SEPTIC AREA. DOES NOT DIFFERENTIATE BETWEEN SEPTIC MATERIALS AND SOIL COVER. SEE SEPTIC PLANS.

DATE: FEBRUARY 18, 2022					
SCALE: AS SHOWN					
DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					
	NO.	BY	DATE	REVISIONS	CITY APPR



PREPARED BY, OR UNDER THE DIRECTION OF:

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 46560 FREMONT BOULEVARD, UNIT NO. 205
 FREMONT, CA 94538
 1sterlingconsultants@gmail.com

PREPARED FOR:

WAKIL RAZZAQUI
 3084 SANBORN ROAD
 SARATOGA, CA 95070

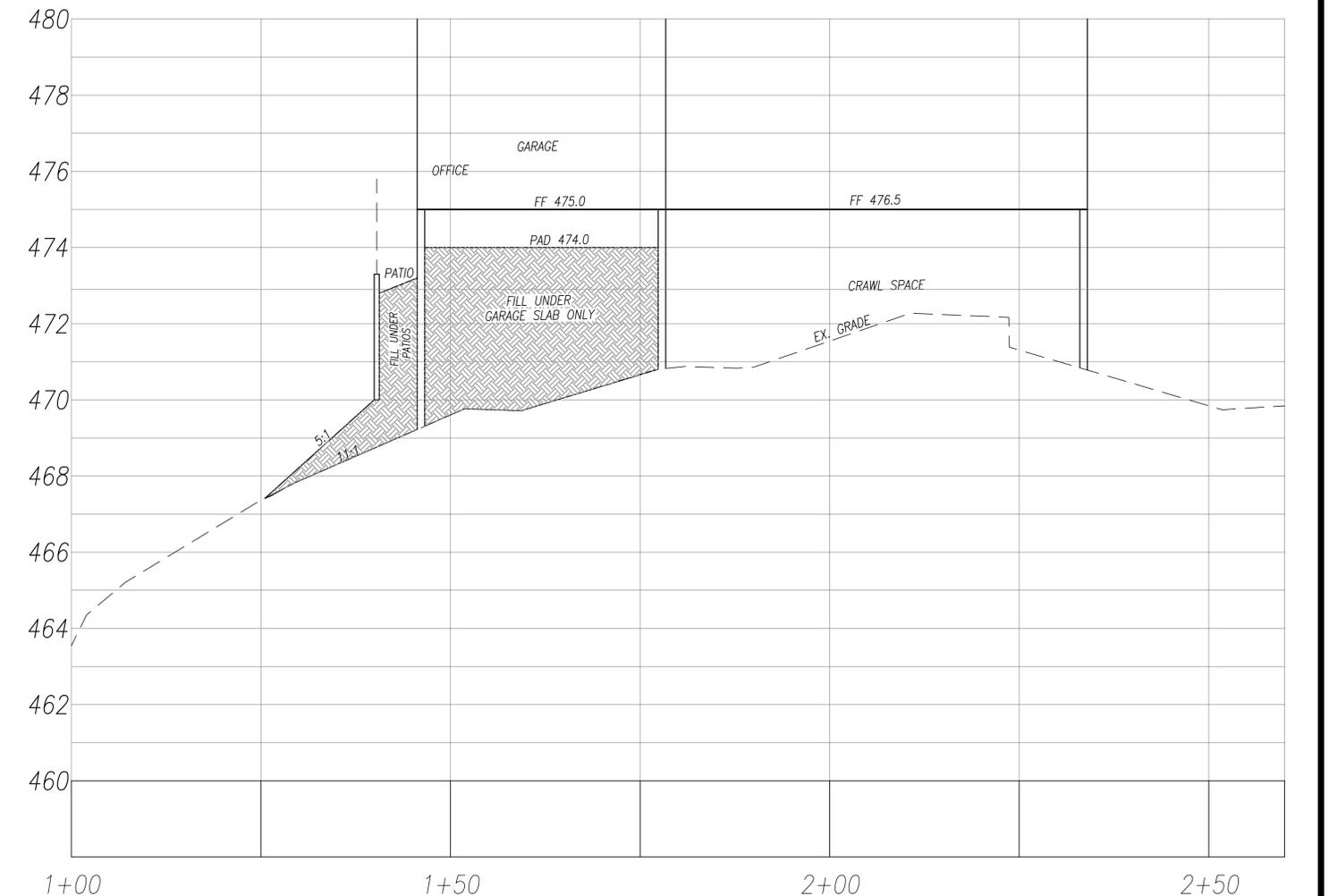
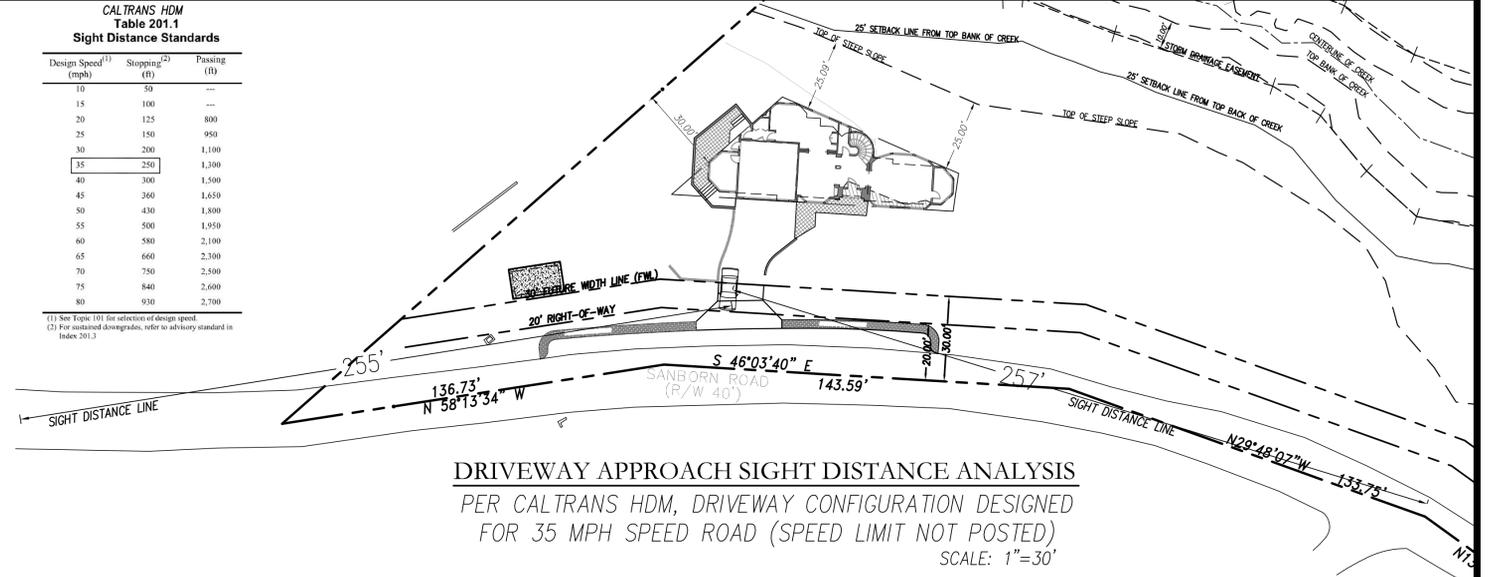
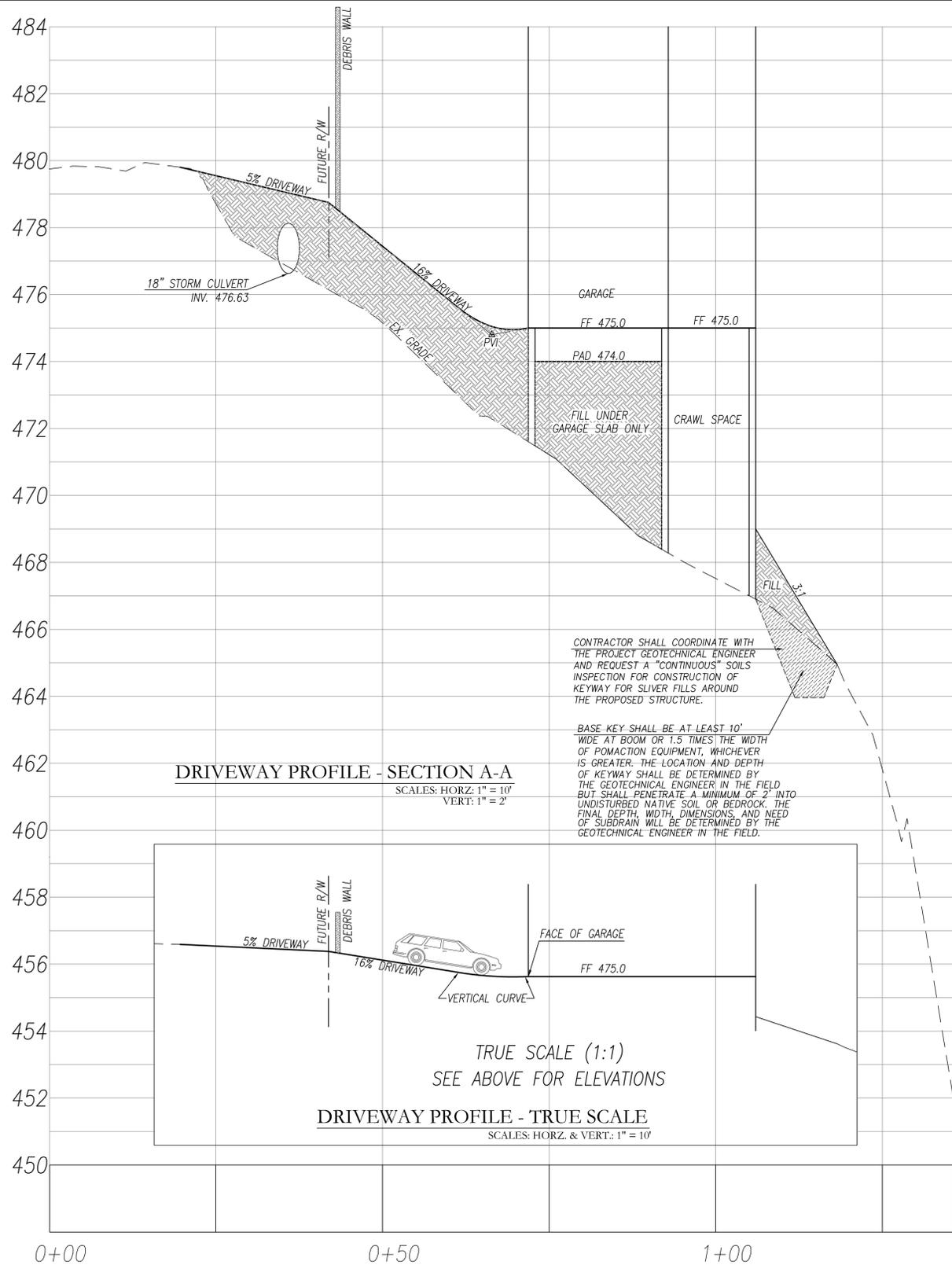
GRADING & DESIGN REVIEW / GRADING ABATEMENT

16365 SANBORN ROAD

GRADING DETAILS AT SEPTIC AREA

SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

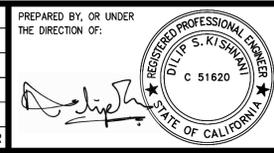
SHEET NO. **C8**
 8 OF 13 SHEETS
 JOB NO. 2018-343



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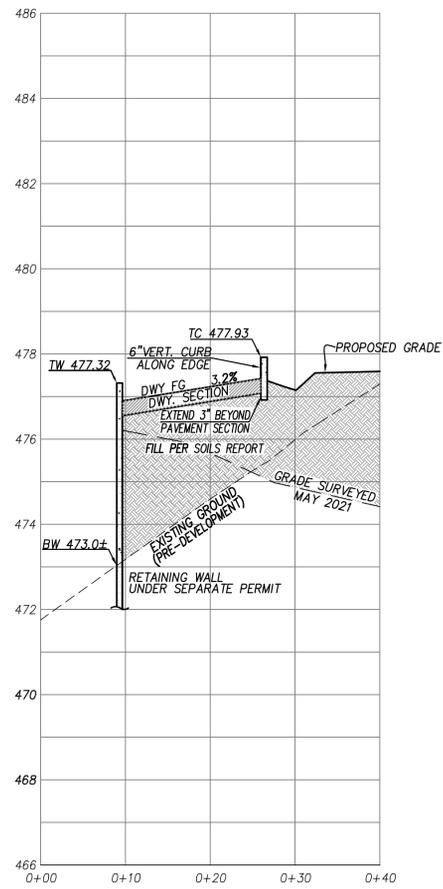
DATE: FEBRUARY 18, 2022	NO.	BY	DATE	REVISIONS	CITY APPR
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DRAWN: DSK					
DESIGNED: DSK					
ENGINEER: DSK					
MANAGER: DSK					



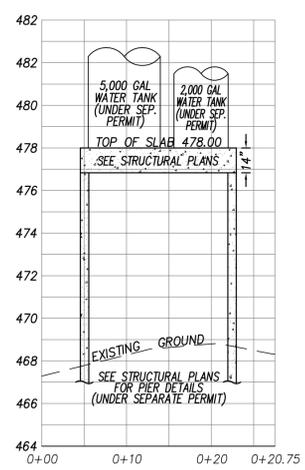
PREPARED BY: **STERLING CONSULTANTS**
 46560 FREMONT BOULEVARD, UNIT NO. 205
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 1sterlingconsultants@gmail.com

PREPARED FOR:
 WAKIL RAZZAQUI
 30843 SANBORN RD
 SAN JOSE, CA 95130

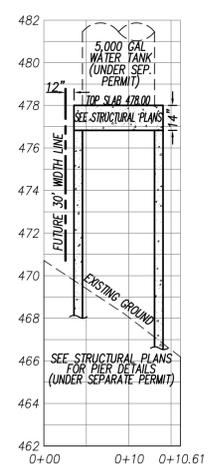
GRADING & DESIGN REVIEW / GRADING ABATEMENT
 16365 SANBORN ROAD
DRIVEWAY PROFILE, SITE SECTIONS & SIGHT DISTANCE
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA
 SHEET NO. **C9** OF 13 SHEETS
 JOB NO. 2018-343



DRIVEWAY SECTION - SECTION C-C
 SCALES: HORZ: 1" = 10'
 VERT: 1" = 2'



WATER TANK - SECTION D-D
 SCALES: HORZ: 1" = 10'
 VERT: 1" = 4'

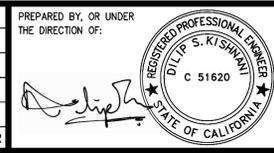


WATER TANK - SECTION E-E
 SCALES: HORZ: 1" = 10'
 VERT: 1" = 4'

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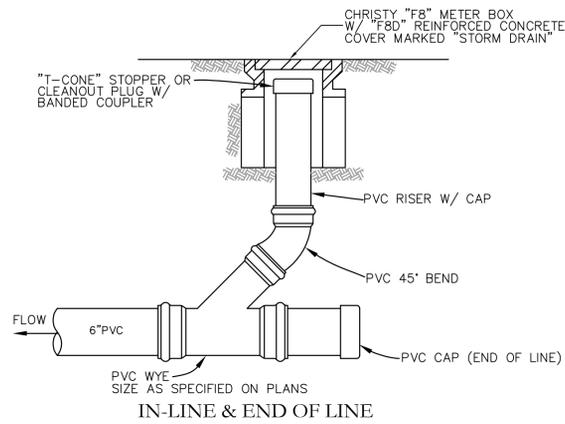


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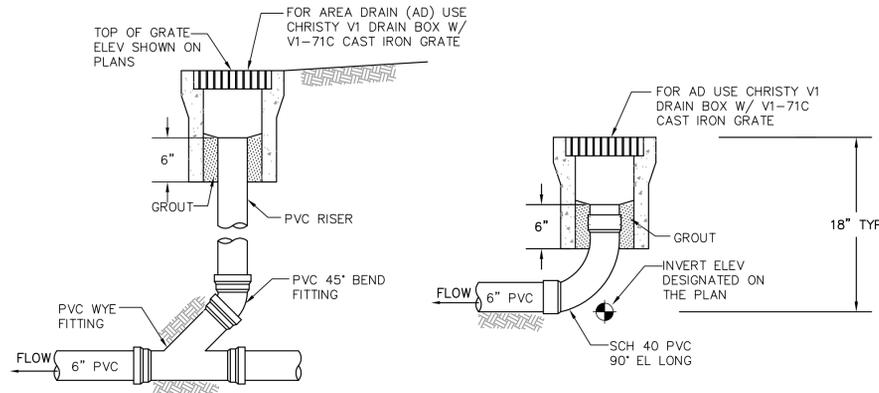
PREPARED FOR:
 WAKIL RAZZAQUI
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 SARATOGA, CA 95070

GRADING & DESIGN REVIEW / GRADING ABATEMENT
 16365 SANBORN ROAD
DRIVEWAY & WATER TANK X-SECTIONS
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

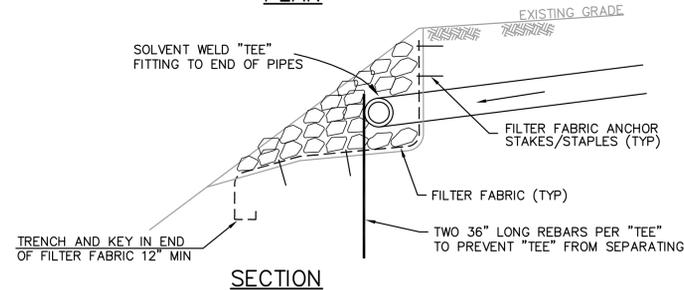
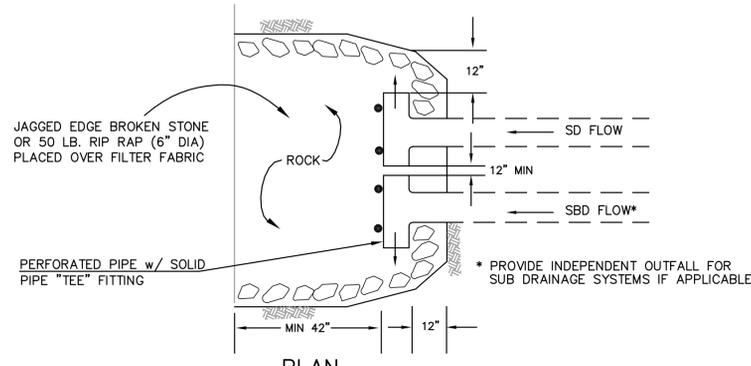
SHEET NO. **C10**
 10 OF 13 SHEETS
 JOB NO. 2018-343



STORM DRAIN CLEANOUT
NOT TO SCALE



AREA DRAIN - DETAIL
NOT TO SCALE



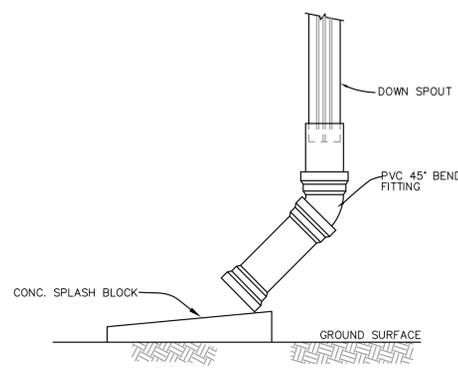
STORM DRAIN/SUBDRAIN DISSIPATER
NOT TO SCALE

NOTES:

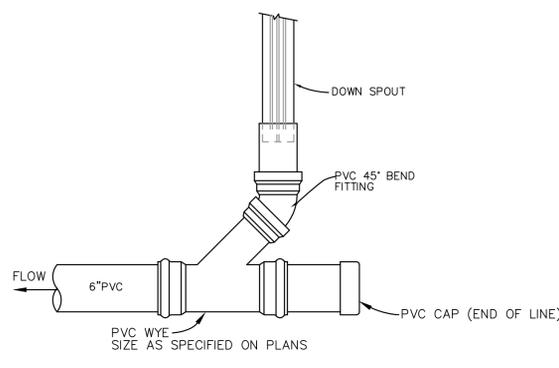
1. MEETS COUNTY BMP-1 DETAIL 4 AND ABAG DESIGN STANDARDS MINIMUM SIZING.

GRADING NOTES:

1. ALL GRADING, SITE PREPARATION, PLACING AND COMPACTION OF FILL SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY EARTH SYSTEMS PACIFIC, DATED JULY 25, 2018.
2. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
3. ALL CUT AND FILL SLOPES AT THE BOUNDARY LINES SHALL BE CONSTRUCTED IN SUCH A MANNER THAT ADJACENT FENCES WILL NOT BE DAMAGED.
4. ALL CUT SLOPES SHALL BE ROUNDED TO MEET EXISTING GRADES AND BLEND WITH SURROUNDING TOPOGRAPHY. ALL GRADED SLOPES OVER FIVE FEET IN HEIGHT SHALL BE PLANTED WITH SUITABLE GROUND COVER.
5. DURING GRADING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES BOTH ON-SITE AND OFF-SITE. STREETS SHALL BE SWEEPED A MINIMUM OF TWO TIMES A DAY OR AS REQUIRED BY THE REGULATING AGENCY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF SAID GRADING QUANTITIES PRIOR TO THE START OF THE GRADING OPERATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DISTRIBUTING ANY EXCESS MATERIAL OR SUPPLY MATERIAL FOR DEFICIENCIES TO BRING PAVEMENT OR LOTS TO REQUIRED GRADE. CLARIFICATION OF GRADING SHALL BE DONE BY THE ENGINEER.
7. THE GRADING OPERATIONS SHALL BE PERFORMED UNDER THE OBSERVATION OF A REPRESENTATIVE FROM THE SOILS ENGINEER. FIELD DENSITY TESTS SHALL BE PERFORMED BY THE PROJECT SOILS ENGINEER ON THE COMPACTED MATERIAL IN ORDER TO ASCERTAIN WHETHER THE MATERIAL ATTAINED THE REQUIRED DEGREE OF MOISTURE CONTENT AND COMPACTION. THE LOCATION AND FREQUENCY OF THE FIELD DENSITY TESTS WILL BE DETERMINED BY THE SOILS ENGINEER AND/OR THE INSPECTOR IN THE FIELD DURING THE GRADING OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE GRADING CONTRACTOR TO PROVIDE A SMOOTH PAD CUT INTO THE COMPACTED SOIL AT THE LOCATION DESIGNATED BY THE SOILS ENGINEER AND/OR THE CITY INSPECTOR FOR THE FIELD TESTING.
8. THE OFFICE OF EARTH SYSTEMS PACIFIC SHOULD BE NOTIFIED ON THE COMMENCEMENT OF THE GRADING OPERATIONS AT LEAST THREE DAYS IN ADVANCE. TELEPHONE: 510.766-2879.
9. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAWCUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS WHICH COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
10. FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. AREAS REQUIRING CLEANING SHOULD BE SWEEPED.
11. WHERE UNSTABLE OR UNSUITABLE MATERIALS ARE ENCOUNTERED DURING SUBGRADE PREPARATION, THE AREA IN QUESTION SHALL BE OVER EXCAVATED AND REPLACED BY SELECT BACKFILL MATERIAL AS DIRECTED IN THE FIELD BY THE SOILS ENGINEER.
12. WHERE ABANDONED UNDERGROUND STRUCTURES ARE ENCOUNTERED IN THE STREET AREAS, REMOVE TO SUFFICIENT DEPTH TO ALLOW UNDERGROUND LINES TO BE IDENTIFIED, BACKFILL AND COMPACT DURING ROUGH GRADING. THE INSPECTOR MAY REQUIRE FURTHER WORK TO BE DONE IF VISUAL INSPECTION INDICATES SO DURING CONSTRUCTION.
13. PRIOR TO ANY GRADING, DEMOLITION OF THE SITE SHOULD BE COMPLETED. DEMOLITION SHOULD INCLUDE THE COMPLETE REMOVAL OF ALL SURFACE AND SUBSURFACE STRUCTURES. IF ANY OF THE FOLLOWING ARE ENCOUNTERED: TREE ROOT SYSTEMS, CONCRETE, SEPTIC TANKS, GAS OR OIL TANKS, STORM INLETS, IRRIGATION PIPES, FOUNDATIONS, ASPHALT, DEBRIS AND TRASH, THESE SHOULD ALSO BE REMOVED. WITH THE EXCEPTION OF ITEMS SPECIFIED BY THE OWNER FOR SALVAGE, THE OFFICE OF GEOTECHNICAL ENGINEERING SHOULD BE NOTIFIED PRIOR TO DEMOLITION OF THE SITE.
14. EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE APPROXIMATE ESTIMATED QUANTITIES AND ARE FURNISHED FOR THE COUNTY OF SANTA CLARA'S INFORMATION ONLY. THE ACTUAL AMOUNT MAY VARY DEPENDING ON COMPACTION, CONSOLIDATION, STRIPPING AND THE CONTRACTOR'S METHOD OF OPERATION. EARTHWORK SUMMARY: SEE SHEET C1
15. DRIVEWAY SHALL BE MADE OF "ALL WEATHER" MATERIAL AND CAPABLE OF HOLDING 75,000 POUNDS WITH A MAXIMUM SLOPE OF 16%.

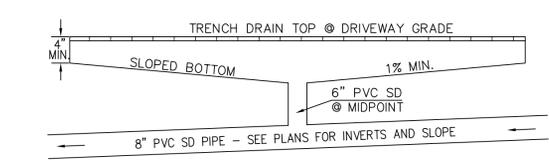
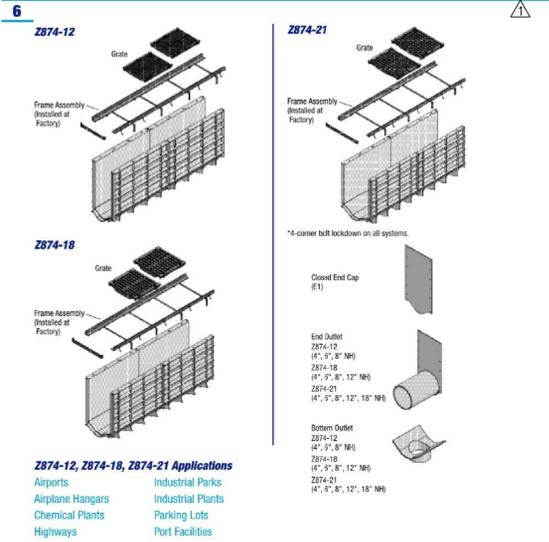


DOWN SPOUT DETAIL
NOT TO SCALE

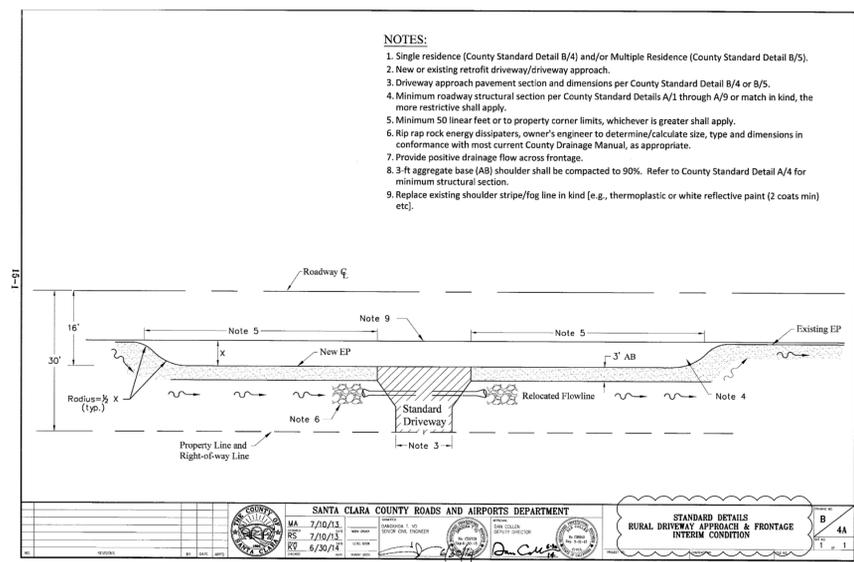
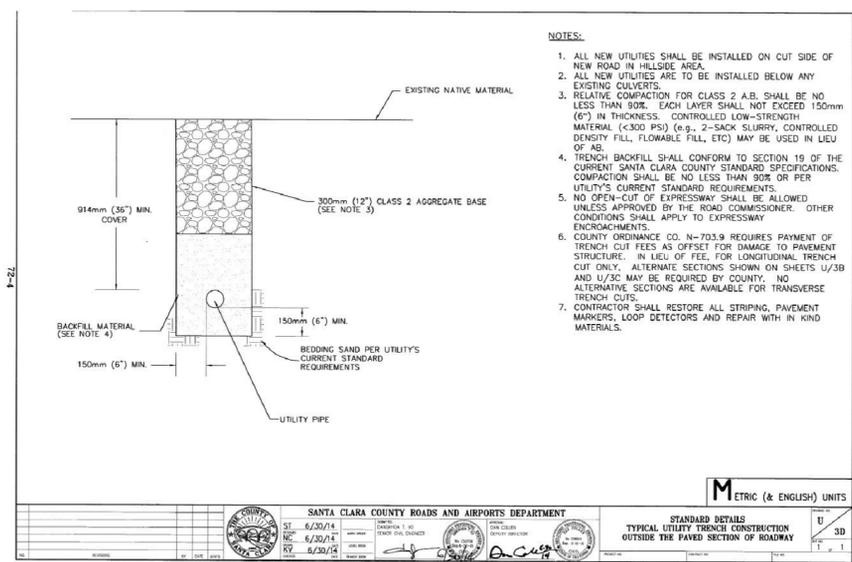


IN-LINE & END OF LINE

Z874 Perma-Trench HDPE Drain Systems (12", 18", 21.25" Throat)



TYP. DRIVEWAY TRENCH DRAIN DETAIL
NOT TO SCALE



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

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PREPARED BY, OR UNDER THE DIRECTION OF:

[Signature]

REGISTERED PROFESSIONAL ENGINEER
DIPLOMA IN CIVIL ENGINEERING
C 51620
STATE OF CALIFORNIA

PREPARED BY:

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GRADING & DESIGN REVIEW / GRADING ABATEMENT

16365 SANBORN ROAD

SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

SHEET NO. **C11**
11 of 13 SHEETS
JOB NO. 2018-343

COUNTY FILE NO.: PLN18-11220
PLN21-093

TREE PRESERVATION NOTES:

PRIOR TO DEMOLITION, BUILDING OR GRADING PERMIT ISSUANCE

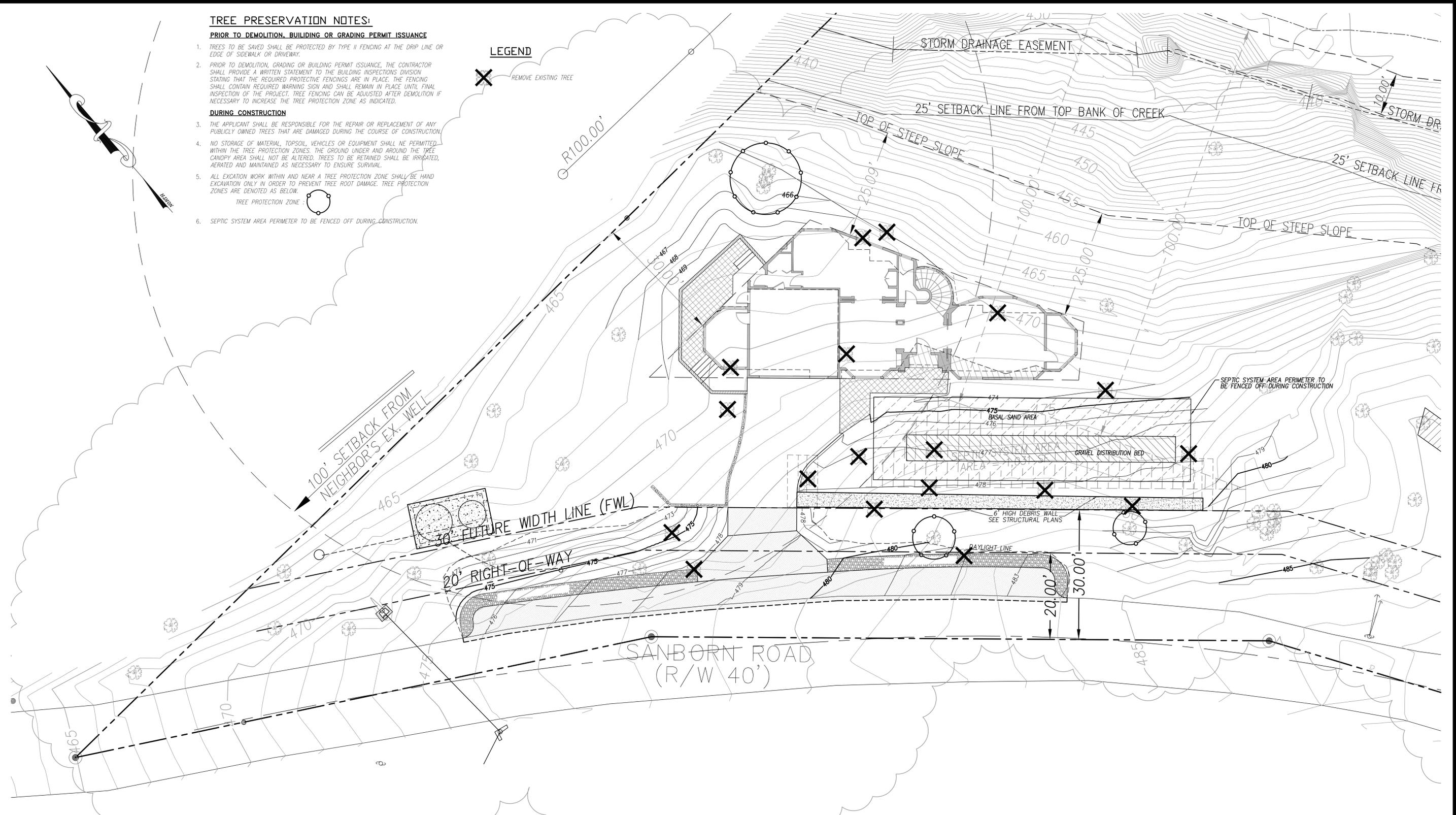
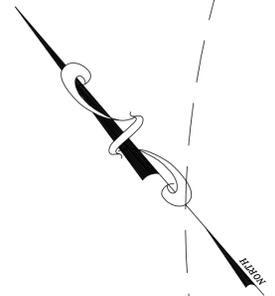
1. TREES TO BE SAVED SHALL BE PROTECTED BY TYPE II FENCING AT THE DRIP LINE OR EDGE OF SIDEWALK OR DRIVEWAY.
2. PRIOR TO DEMOLITION, GRADING OR BUILDING PERMIT ISSUANCE, THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT TO THE BUILDING INSPECTIONS DIVISION STATING THAT THE REQUIRED PROTECTIVE FENCINGS ARE IN PLACE. THE FENCING SHALL CONTAIN REQUIRED WARNING SIGN AND SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION OF THE PROJECT. TREE FENCING CAN BE ADJUSTED AFTER DEMOLITION IF NECESSARY TO INCREASE THE TREE PROTECTION ZONE AS INDICATED.

DURING CONSTRUCTION

3. THE APPLICANT SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY PUBLICLY OWNED TREES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTION.
4. NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION ZONES. THE GROUND UNDER AND AROUND THE TREE CANOPY AREA SHALL NOT BE ALTERED. TREES TO BE RETAINED SHALL BE IRRIGATED, AERATED AND MAINTAINED AS NECESSARY TO ENSURE SURVIVAL.
5. ALL EXCAVATION WORK WITHIN AND NEAR A TREE PROTECTION ZONE SHALL BE HAND EXCAVATION ONLY IN ORDER TO PREVENT TREE ROOT DAMAGE. TREE PROTECTION ZONES ARE DENOTED AS BELOW.
TREE PROTECTION ZONE: 
6. SEPTIC SYSTEM AREA PERIMETER TO BE FENCED OFF DURING CONSTRUCTION.

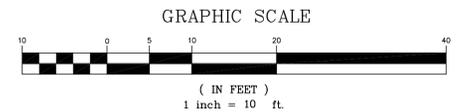
LEGEND

 REMOVE EXISTING TREE

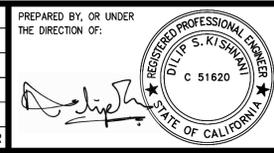


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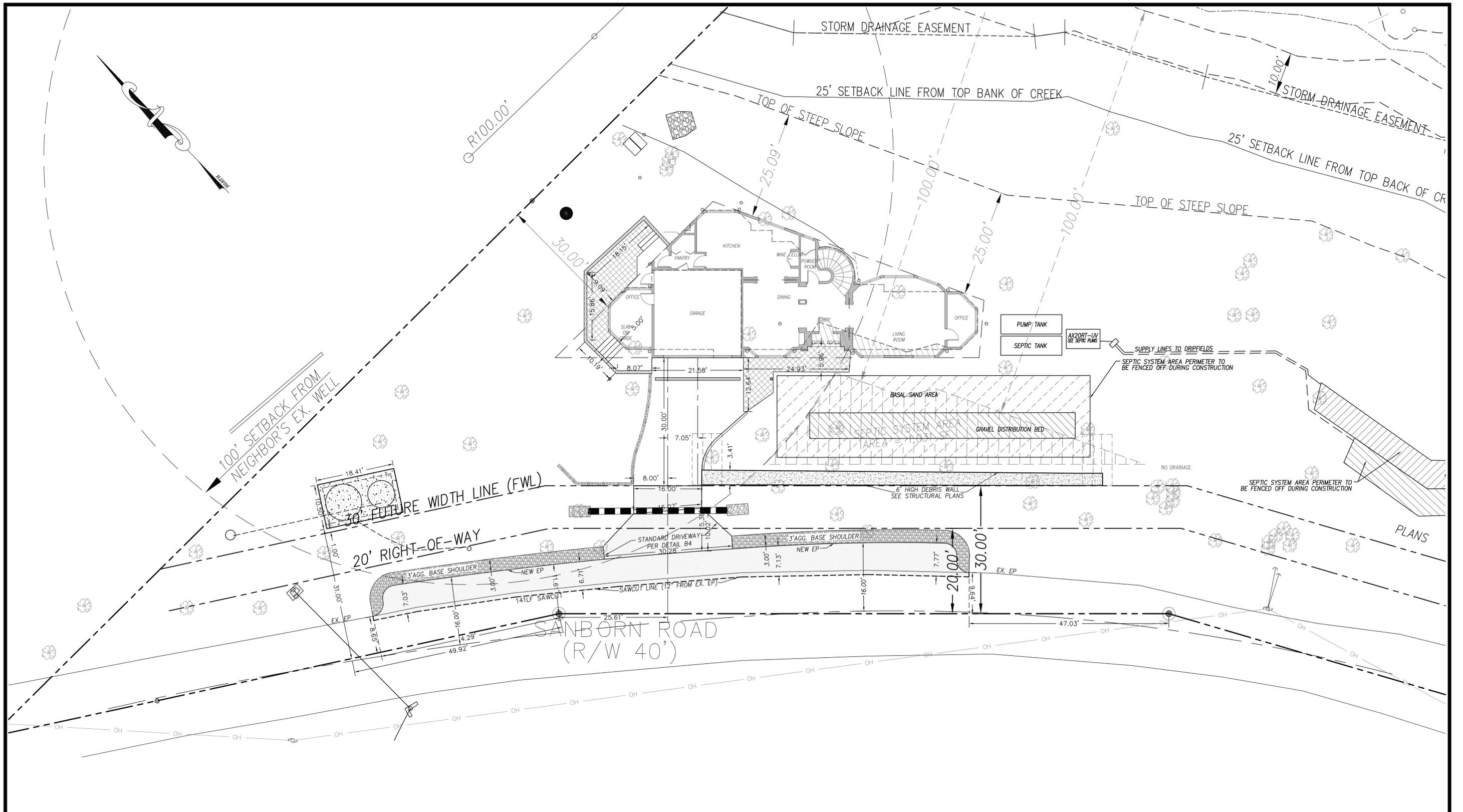


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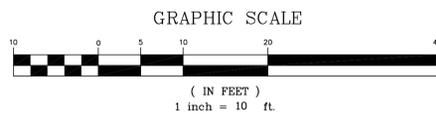
GRADING & DESIGN REVIEW / GRADING ABATEMENT
16365 SANBORN ROAD
TREE PROTECTION PLAN
SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

SHEET NO.
C12
12 OF 13 SHEETS
JOB NO.
2018-343

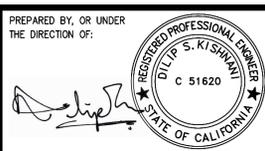


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GRADING & DESIGN REVIEW / GRADING ABATEMENT
 16365 SANBORN ROAD
HORIZONTAL CONTROL PLAN
 SARATOGA (UN-INCORP.) SANTA CLARA COUNTY CALIFORNIA

SHEET NO. **C13**
 13 OF 13 SHEETS
 JOB NO. 2018-343