LEGEND

	EXISTING AC PATH / RAMP		PROPOSED CURB & GUTTER
	CENTERLINE		PROPOSED VERTICAL CURB
	EXISTING CURB & GUTTER	78	PROPOSED CONTOUR
	EXISTING CURB		PROPOSED STORM DRAIN LINE
———— E ————	EXISTING ELECTRICAL LINE	\oplus	EXISTING ELECTRICAL MANHOLE
SS	EXISTING SANITARY SEWER LINE		EXISTING ELECTRICAL BOX
SD	EXISTING STORM DRAIN LINE		EXISTING CATCH BASIN
т	EXISTING TELEPHONE LINE	0	EXISTING MANHOLE
DW	EXISTING DOMESTIC WATER LINE	<i>\$</i>	EXISTING ELECTROLIER
LW	EXISTING LAKE WATER LINE	\bowtie	EXISTING WATER VALVE
SW	EXISTING SEARSVILLE WATER LINE	ď	EXISTING FIRE HYDRANT
SC			EXISTING SIGN
CW	CONDENSATE LINE EXISTING CHILLED WATER LINE	\triangle	EXISTING SURVEY CONTROL
SL		A	DETAIL NUMBER DESIGNATION
C	EXISTING COMMUNICATION LINE	07.0	
G	EXISTING GAS LINE		PROPOSED CATCH BASIN
		¥	PROPOSED ELECTROLIER

PROJECT NOTES

. THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PM10 CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE PROGRAM EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES.

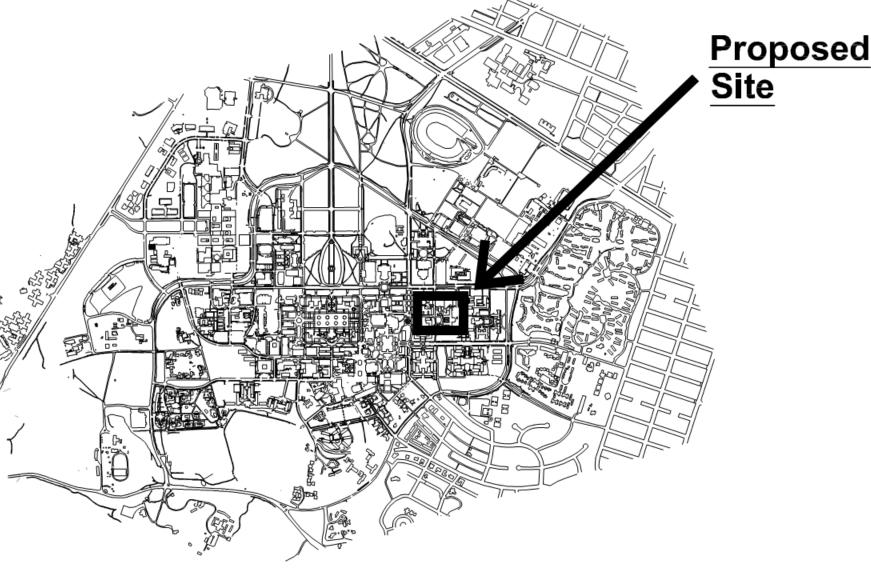
PROPOSED OVERFLOW DRAIN

- 1.1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY; 1.2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT
- LEAST TWO FEET OF FREEBOARD; 1.3. 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;
- 1.4. 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; 1.5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
- THE USE OF DRY POWDER SWEEPING IS PROHIBITED; 1.6. HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS
- INACTIVE FOR TEN DAYS OR MORE) 1.7. ENCLOSE. COVER. WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND);
- 1.8. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH; 1.9. INSTALL FIBER ROLLS, SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC
- ROADWAYS;
- 1.10. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE; 1.11. INSTALL WHEEL WASHERS FOR ALL EXISTING TRUCKS, OR WASH OFF TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE; AND
- 1.12. SUSPEND ALL EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH. 2. ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT AND WHERE FEASIBLE, USE "CLEAN FUEL" EQUIPMENT AND EMISSIONS CONTROL TECHNOLOGY (EG., CNG FIRED ENGINES, CATALYTIC CONVERTERS, PARTICULATE TRAPS, ETC.). MEASURES TO REDUCE DIESEL FUEL EMISSION WOULD BE CONSIDERED FEASIBLE WHEN THEY ARE CAPABLE OF BEING
- USED ON EQUIPMENT WITHOUT INTERFERING SUBSTANTIALLY WITH EQUIPMENT PERFORMANCE. CONSTRUCTION MATERIALS AND FILL DIRT DELIVERED FROM OFF CAMPUS SHALL NOT BE DELIVERED BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 TO 6:00 PM ON WEEKDAYS.
- 4. TRUCKS EXPORTING/IMPORTING FILL DIRT AND BUILDING MATERIALS FOR THE PROJECT SHALL USE APPROVED TRUCK ROUTES SHOWN IN THE 2000 GUP, AS DESIGNATED BY THE CITIES OF PALO ALTO AND MENLO PARK.
- 5. THE WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- 6. GRADING WORK BETWEEN OCTOBER 15 AND APRIL 15 IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
- 7. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS. 8. PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL GRADED AREAS SHALL BE RESEEDED (CONTRACTOR TO OBTAIN
- MIX FROM STANFORD) IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION ON THE SUBJECT SITE
- 9. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR ROUND 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. 10. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLANS. THE
- ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION. 11. THE CONSTRUCTION INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND
- AN UPDATED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON THE SITE. 12. IN THE EVENT THAT PREVIOUSLY UNIDENTIFIED HISTORIC OR PREHISTORIC ARCHAEOLOGICAL RESOURCES ARE DISCOVERED
- DURING BUILDING CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IN THE IMMEDIATE AREA AND THE COUNTY PLANNING OFFICE AND CAMPUS ARCHAEOLOGIST SHALL BE CONTACTED. AN INDEPENDENT QUALIFIED ARCHAEOLOGIST RETAINED BY THE COUNTY AT THE EXPENSE OF STANFORD SHALL ASSESS THE SIGNIFICANCE OF THE FIND AND MAKE MITIGATION RECOMMENDATIONS.
- 13. THE CONTRACTOR SHALL FILE FOR AND OBTAIN BUILDING PERMITS FOR ALL STRUCTURES AND BRIDGES TO BE CONSTRUCTED, AND FOR ALL LIGHTING TO BE INSTALLED FOR THE PROJECT.
- 14. THE PROJECT HAS BEEN CONDITIONED TO REQUIRE ALL TRUCK TRAVEL TO USE ONLY APPROVED AREA TRUCK ROUTES, AND ALL TRUCK TRAVEL, EITHER FOR EXCAVATING MATERIALS OR FOR TRANSPORTING CONSTRUCTION MATERIALS TO THE SITE, WOULD USE THESE ROUTES CONSISTENT WITH REQUIREMENTS UNDER THE GUP. FURTHER, THE PROJECT HAS BEEN CONDITIONED TO RESTRICT CONSTRUCTION MATERIAL DELIVERIES TO NON-PEAK HOURS.
- 15. THE PROJECT MAY CREATE TEMPORARY NOISE IMPACTS DUE TO CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC AND CONSTRUCTION MANAGEMENT PLAN. FURTHER, CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7 AM AND 7 PM, MONDAY THROUGH SATURDAY, WITH NO CONSTRUCTION OCCURRING AFTER 7 PM OR ON SUNDAYS.

	IMPERVIOUS / PERVIOUS SUMMAR EXISTING AREA	Y INCREASE IN IMPERVIOUS AREA INCREASE = PROPOSED IMPERVIOUS - EXISTING IMPERVIOUS
	AREA DESCRIPTION C 0.35 ACRES PERVIOUS 0.30	= 0.57 - 0.52 = 0.05 ACRES
	0.52 ACRES IMPERVIOUS 0.85	TREE SUMMARY
	PROPOSED AREA	SEE LANDSCAPE PLANS FOR DETAILS
D BY: wilm	ACREDESCRIPTIONC0.30ACRESPERVIOUS0.300.57ACRESIMPERVIOUS0.85	

STANFORD UNIVERSITY CROTHERS WAY EXTENSION **PROJECT #5403** QUAD #06

STANFORD, SANTA CLARA COUNTY CALIFORNIA



CAMPUS VICINITY MAP

SCALE: NTS

UTILITY NOTES

- 1. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE ACTUAL LOCATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- 2. STANFORD ARBORIST SHALL BE PRESENT FOR ANY EXCAVATION/DEMOLITION WITHIN 10' OF EXISTING TREE DRIPLINES.
- 3. REPLACE ALL VAULT/BOX COVERS AS NEEDED TO MEET H-20 LOADING IF LOCATION IS SUBJECT TO VEHICULAR TRAFFIC.
- 4. CONTRACTOR SHALL ADJUST TO GRADE, AS NECESSARY ALL EXISTING SURFACE FEATURES SUCH AS UTILITY VALVES, VAULTS AND COVERS WHICH ARE IMPACTED BY THE PROPOSED IMPROVEMENTS.
- 5. STORM AND SEWER VERTICAL ALIGNMENT TO GOVERN IN UTILITY CROSSING CONFLICTS. UTILITY TO CROSS ABOVE IF MINIMUM COVER CAN BE MAINTAINED; OTHERWISE CROSS BELOW AND MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN UTILITY CROSSINGS.
- 6. REFER TO STANFORD FDG TRENCH BACKFILL AND RESURFACING DETAILS AND SPECIFICATIONS FOR ALL UTILITY TRENCHING.
- 7. REPLACE CURB OR CURB AND GUTTER DISTURBED BY UTILITY CONSTRUCTION.
- 8. STORM DRAIN: PVC SDR 35 FOR LINES SMALLER THAN 12". RCP CLASS III FOR 12" AND LARGER.

MISCELLANEOUS NOTES

- 1. NOTIFY THE SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD WITH THE CONTRACTOR.
- 2. EXISTING TREES SHALL BE PROTECTED IN PLACE BY FENCING DURING PERIOD OF CONSTRUCTION. TEMPORARY CRIBBING MAY BE NEEDED TO PROTECT SOILS AROUND TREES TO KEEP THEM FROM SLOUGHING AND EXPOSING ROOTS. CONTRACTOR TO GET OWNER APPROVAL TO CUT ROOTS LARGER THAN 3/4" DIAMETER.
- 3. ALL WORK SHALL CONFORM TO STANFORD'S STANDARD DETAILS, SPECIFICATIONS, AND GUIDELINES.

SWPPP/NOI NOTE

1. THIS PROJECT DISTURBS LESS THAN ONE (1) ACRE. THEREFORE THIS PROJECT DOES NOT NEED COVERAGE UNDER THE STATE CONSTRUCTION GENERAL PERMIT (I.E., FILE A NOTICE OF INTENT AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN).

C1.0 C1.1 PL1.2 C2.0 C2.1 C3.0 C3.1 C4.0 C4.1 C5.0 C5.1 C5.2 C5.4 C6.0 C7.0	-C5.3
L0.0 L1.0 L1.1 L1.2 L1.3	

L1.4 —

E1.0 ——

ABBREVIATIONS

AB AC AD ALT BCR BW CO CONC CW DW DI DIP E ECR EG ELEC EP EW	AGGREGATE BASE ASPHALT CONCRETE AREA DRAIN ALTERNATE BEGIN CURB RETURN BEGINNING OF WALL CLEANOUT CONCRETE CHILLED WATER DOMESTIC WATER DRAIN INLET DUCTILE IRON PIPE ELEVATION END CURB RETURN EXISTING GRADE ELECTRICAL EDGE OF PAVEMENT END OF WALL	EX FDC FG FS GES INV KV L MHN OD PIV PR PVC PVI	EXISTING FIRE DEPARTMENT CONNECTION FINISHED GRADE FIRE SERVICE GREEN EARTH SCIENCE INVERT KILO - VOLT LEFT OF CENTERLINE MANHOLE MINIMUM ON CENTER OVERFLOW DRAIN POINT ON CURVE POST INDICATOR VALVE PROPOSED POINT OF REVERSE CURVE POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION	F F F S S S S S S S S S S F F F F Z S S
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GENERAL

JENER
APN:

PARCEL DEVELO

LAND U SITE AF DEMOLI

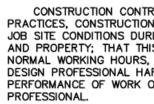
PERCENTAGE OF SITE AREA:

BUILDIN PARKIN SIDEWA

OUTSIDE LANDSC

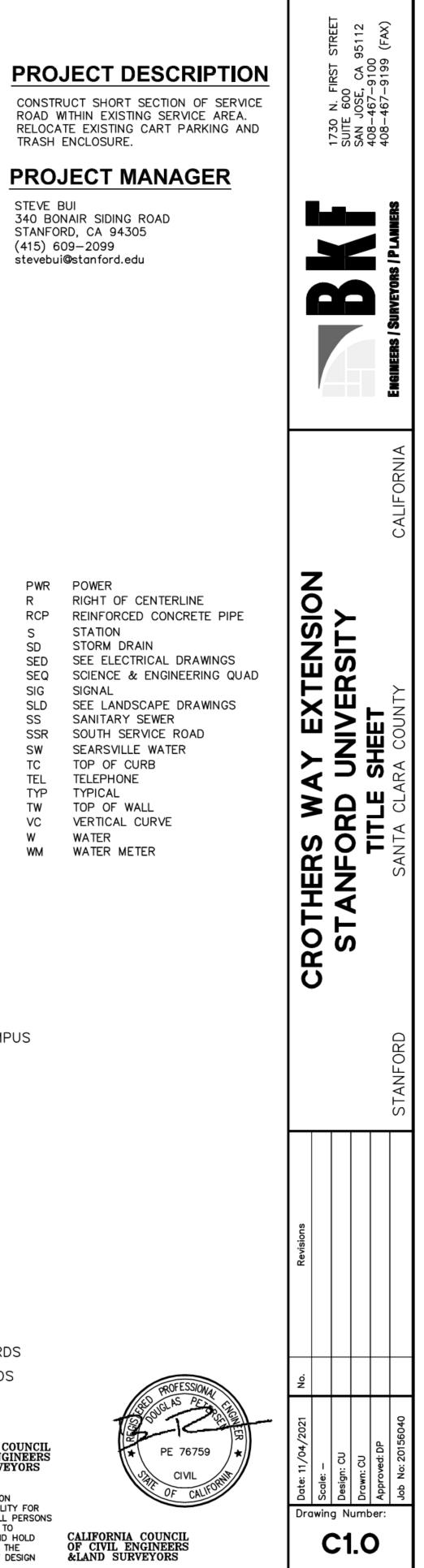
UNDEVE

ESTIMA CUT: FILL:



INDEX OF SMALL GRADING PERMIT SHEETS

TITLE SHEET CONSTRUCTION NOTES GUP INFORMATION MAP IMPERVIOUS AREA EXHIBIT DEMOLITION PLAN DEMOLITION PLAN HORIZONTAL CONTROL PLAN HORIZONTAL CONTROL PLAN GRADING AND UTILITY PLAN GRADING AND UTILITY PLAN EROSION CONTROL PLAN EROSION CONTRO
 PLANTING PLAN "B" SITE DETAILS SITE DETAILS LIGHTING AND POWER



OF

SITE DATA INFORMATION

	142-04-036
L SIZE:	31.28 AC
OPMENT DISTRICT:	EAST CAMPUS
USE DESIGNATION: REA:	ACADEMIC CAMPUS 0.87 AC
ITION AREA:	0.68 AC

IG:
G/DRIVEWAYS:
LKS/STREETS:
E STORAGE:
CAPING:
ELOPED:
TED CUT AND FILL:

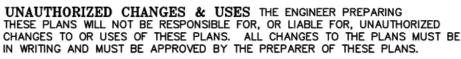
40% 0% 370 CUBIC YARDS 60 CUBIC YARDS

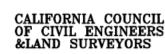
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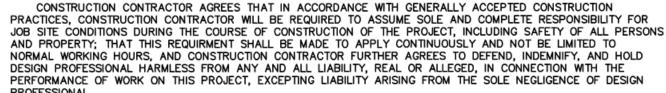
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<u>COUNTY OF SANTA CLARA</u> General Construction Specifications

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY CORNERSTONE AND DATED <u>5/16/2014</u>. 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 D. 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).
- 0. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION. . ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

- THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
- PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK
- 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, 48 HOURS FOR ASPHALT CONCRETE INSPECTION. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE
- WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION. SITE CONDITIONS. EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR
- WITH PAD ELEVATION AND LOCATION CERTIFICATES. PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

<u>SITE PREPARATION</u> (CLEARING AND <u>GRUBBING)</u>

- 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

- 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 STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED
- OUTSIDE THE PAVED AREAS. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT
- ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT
- FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM
- STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

<u>GRADING</u>

- 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
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.
- 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- 5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. 6. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL

SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
BUILDING	0	0	0
ACCESSORY STRUCTURE	0	0	0
POOL/HARDSCAPE	0	0	0
LANDSCAPE	20	20	1 FT CUT
DRIVEWAY/ ACCESS ROAD	350	40	1 FT CUT
TOTAL	370	60	

EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP

- . 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 0.53 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.

TRFF. 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:
- FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION
- PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION
- FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES. SIGNAGE STATING. "WARNING- THIS FENCING SHALL NOT BE REMOVED
- WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION
- MEASURES MAY BE FOUND AT http://www.sccplanning.gov." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY. . PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE
- FENCING SHALL BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
- 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. . 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

- . 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.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 1. 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 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
- 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. 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
 - 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367.
- 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT
- THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH. 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE
- ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW. 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS
- SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.
- 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION
- ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT. CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE LIMITED TO THE
- FOLLOWING; A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT
- LAYDOWN / STAGING AREAS. B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET
- WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS,
- PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY. 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS,
- DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.
- STORM DRAINAGE AND STORMWATER MANAGEMENT
- 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT CAS000004/ ORDER NO. 2013-0001-DWQ.
- DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
- WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW. 4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS. PROPERTY OWNERS SHALL
- PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

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

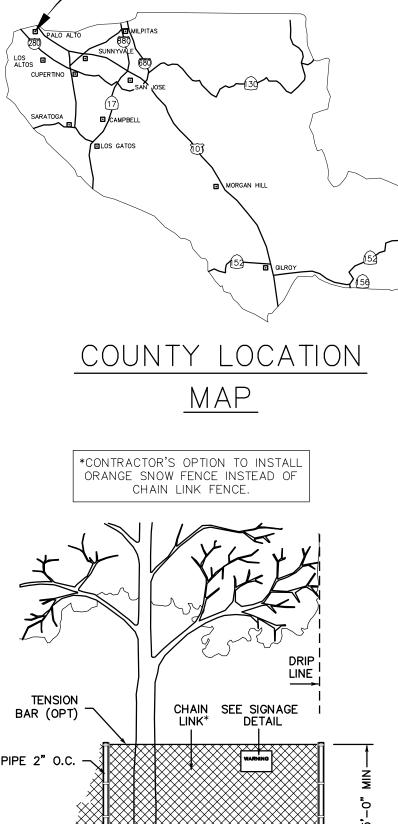
SIGNATURE

DATE

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.

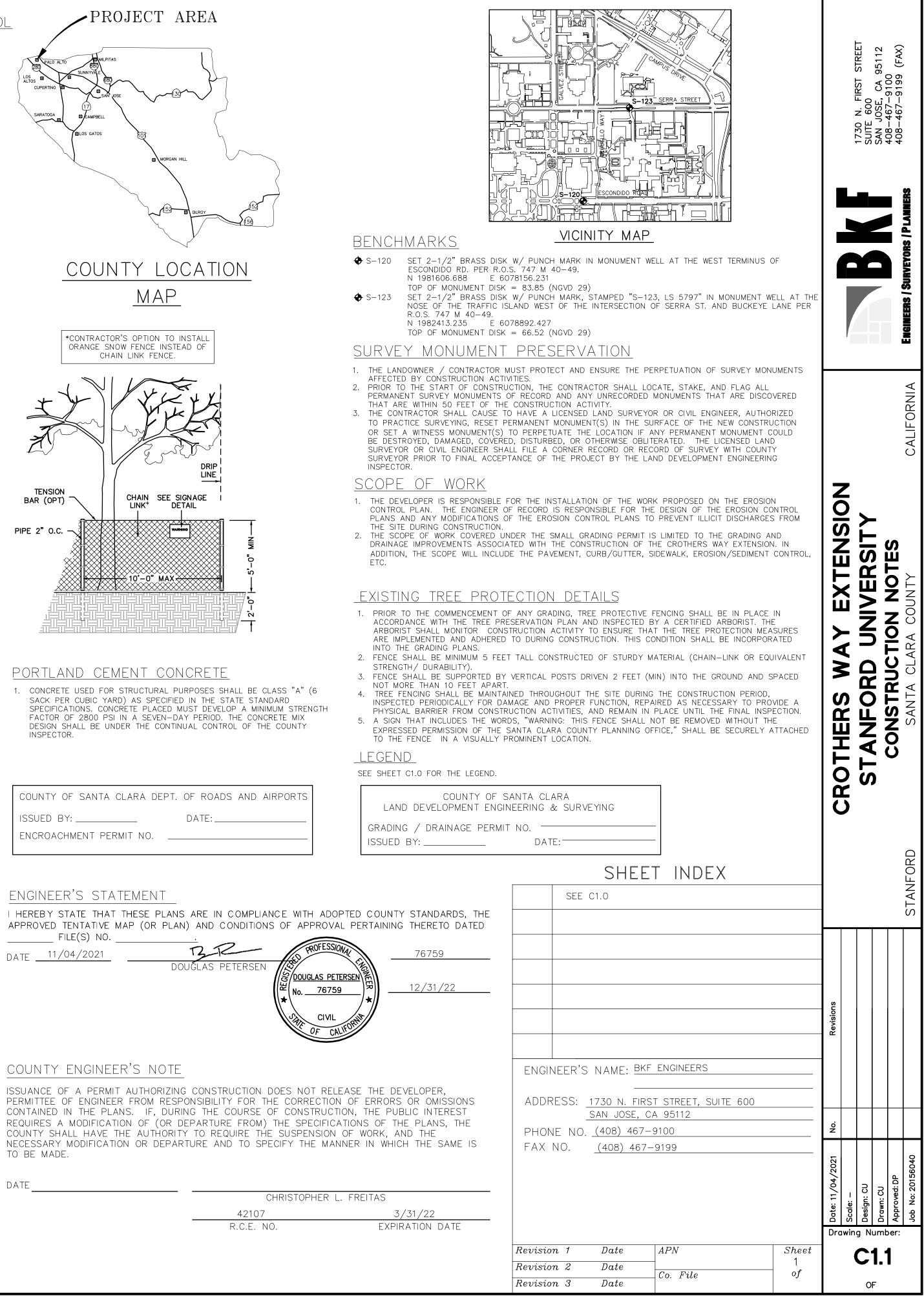
geotechnical engineer observation

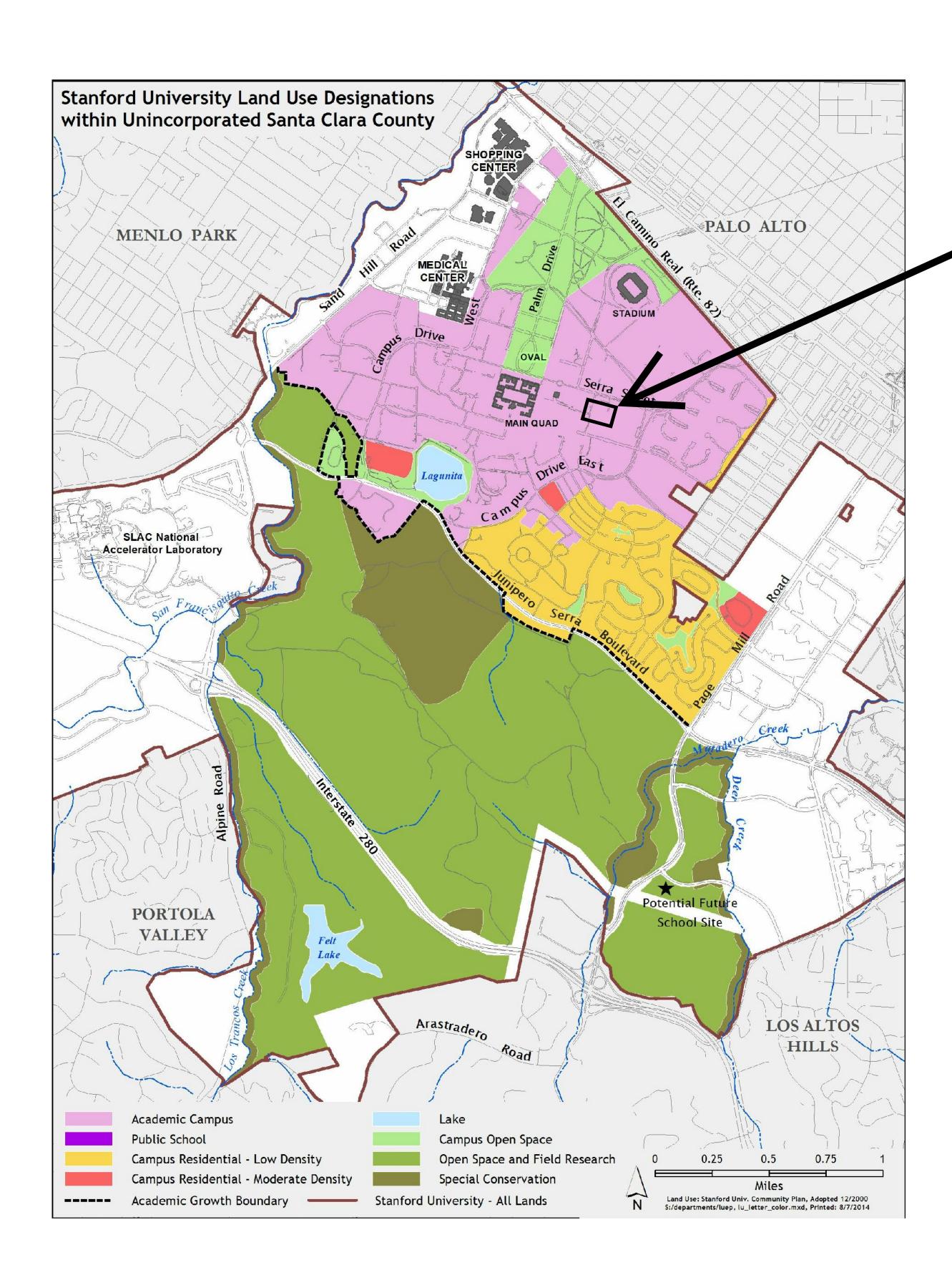
1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION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

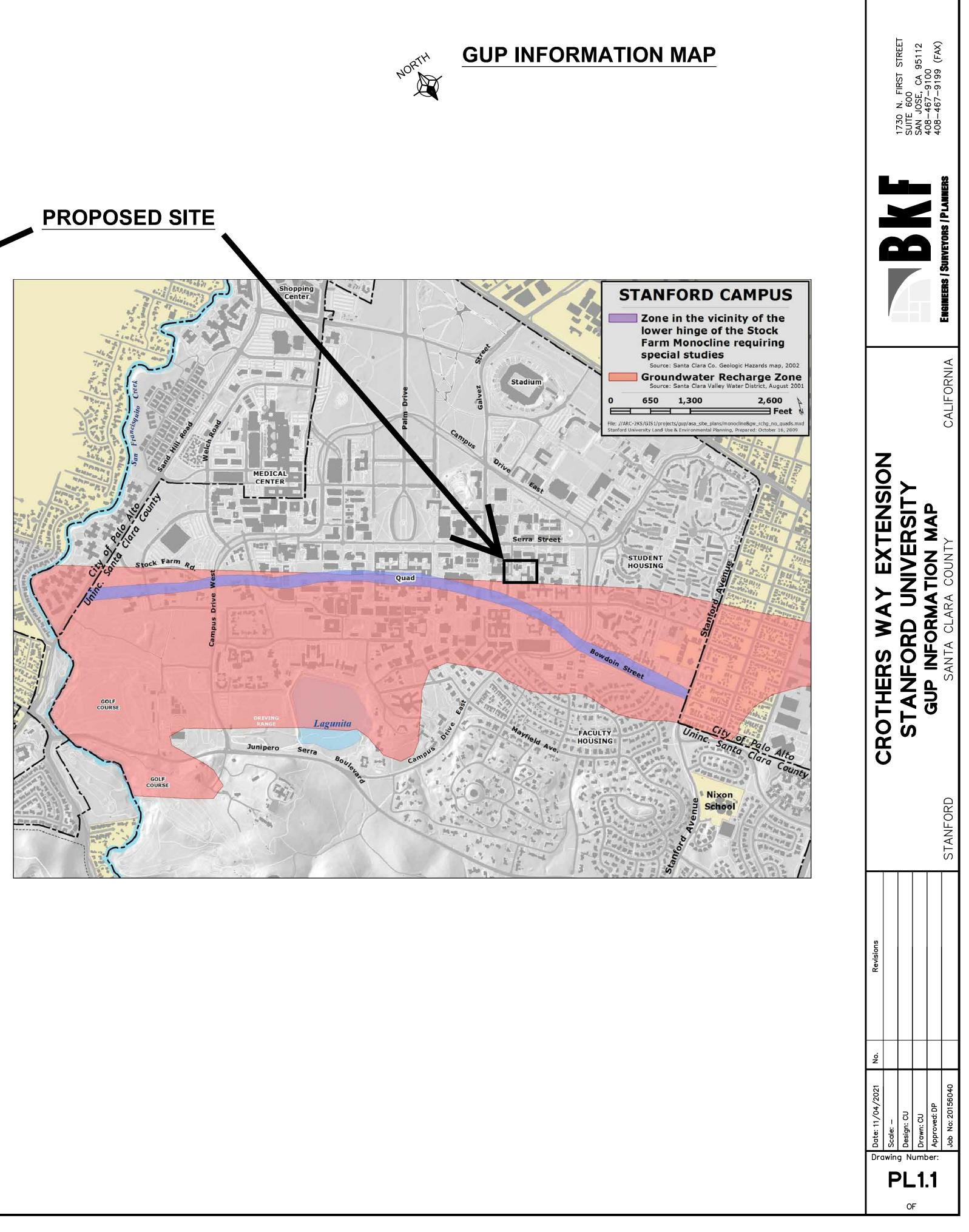


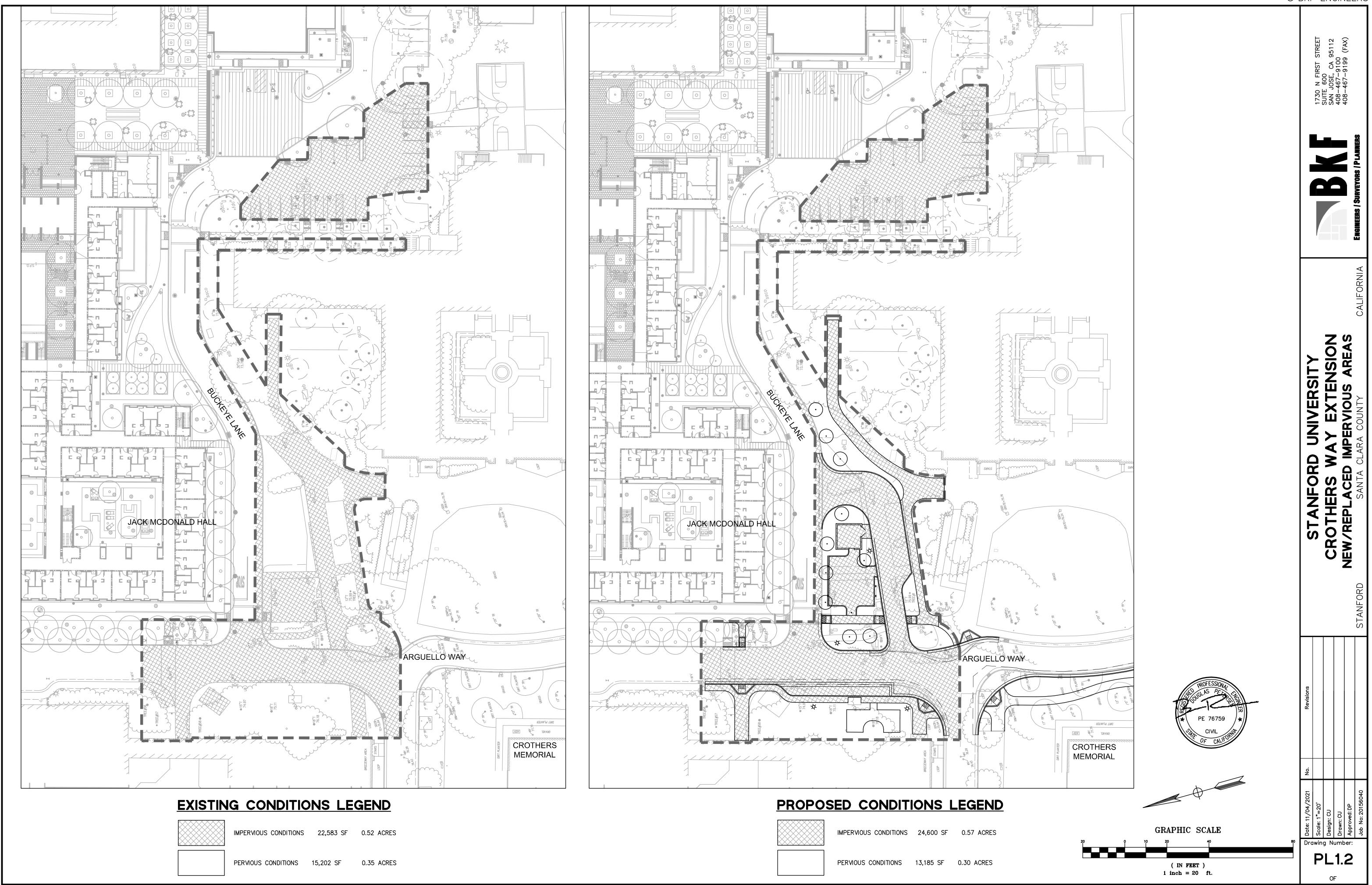
SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD INSPECTOR.

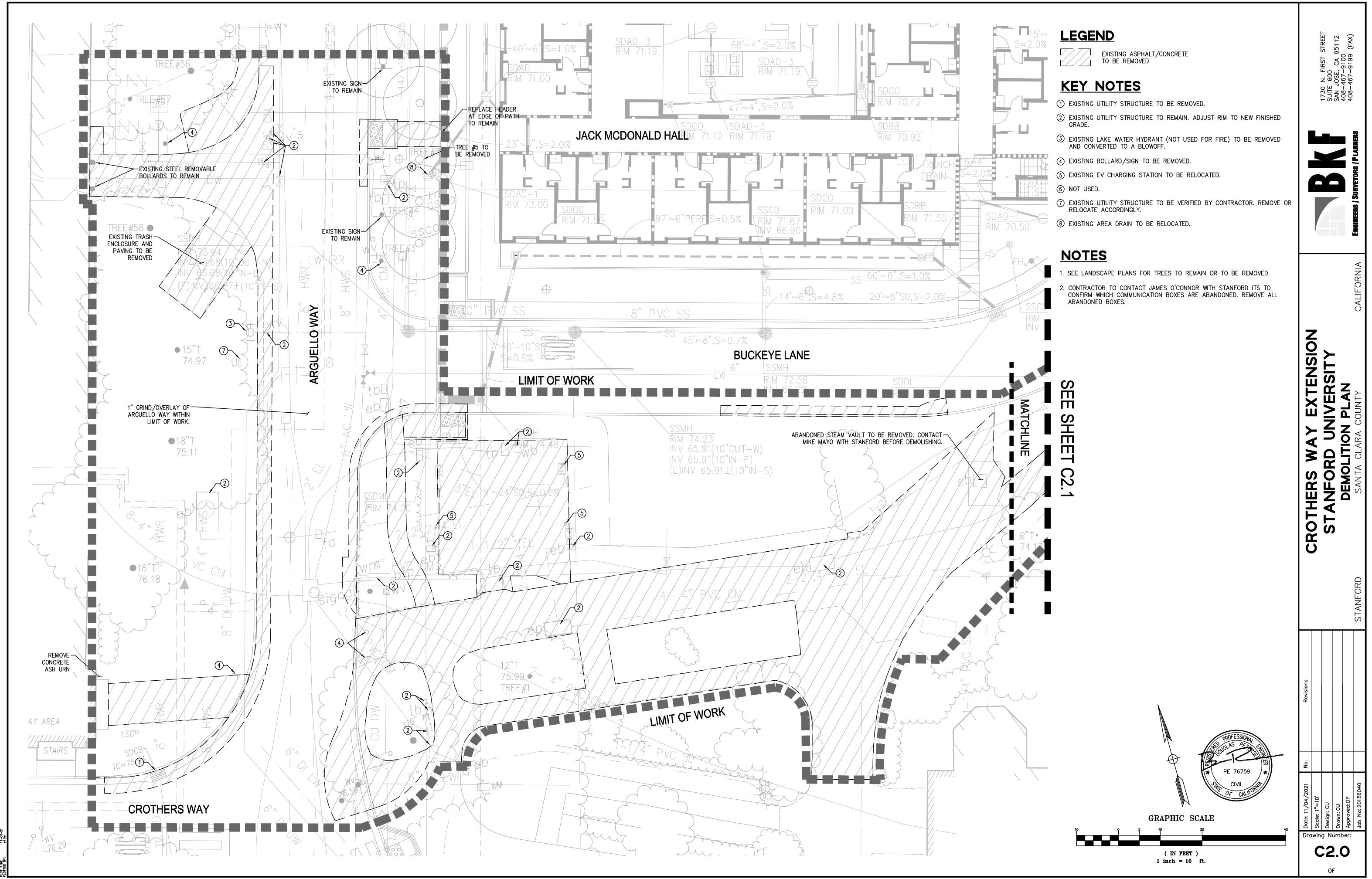
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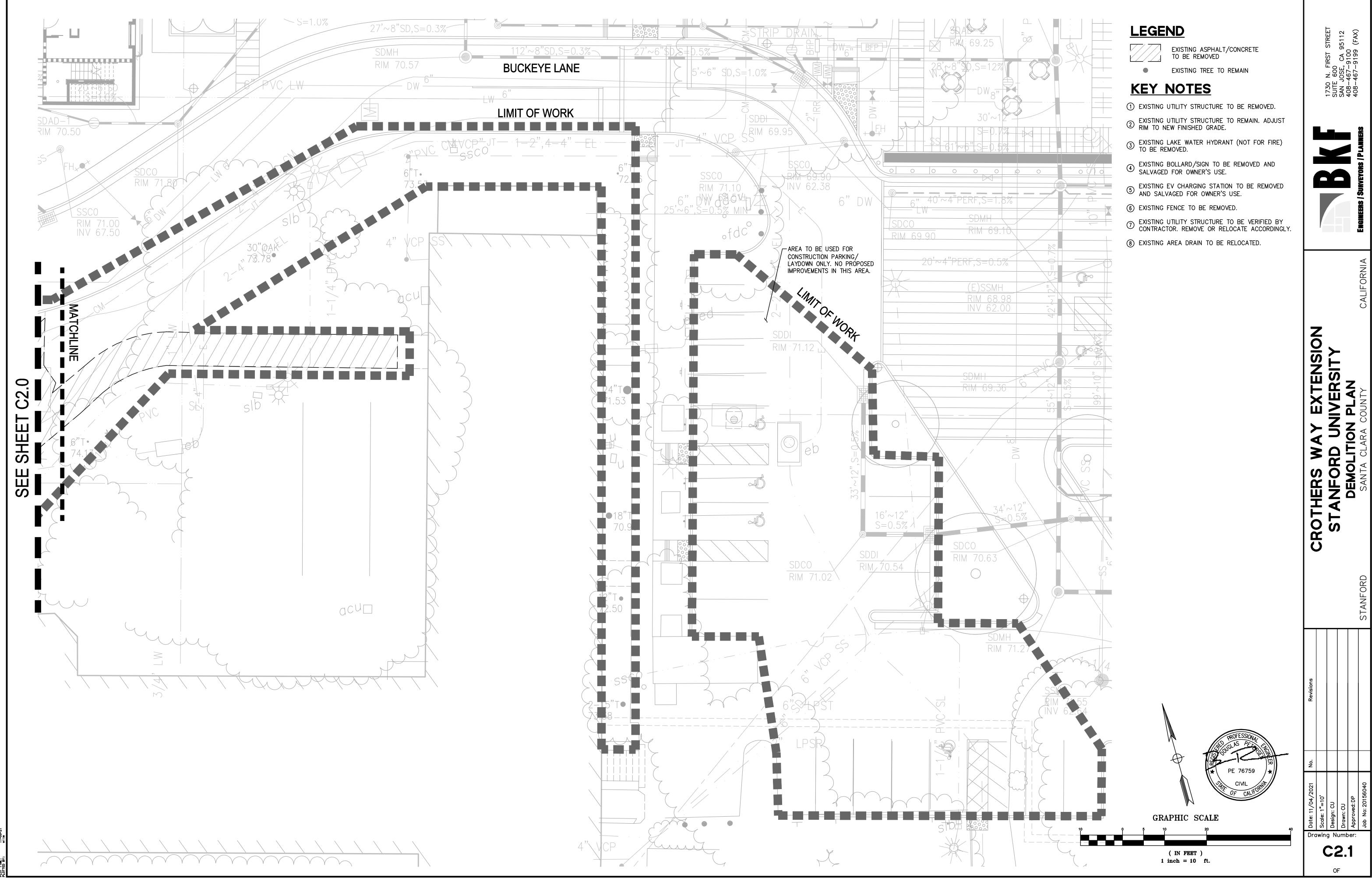




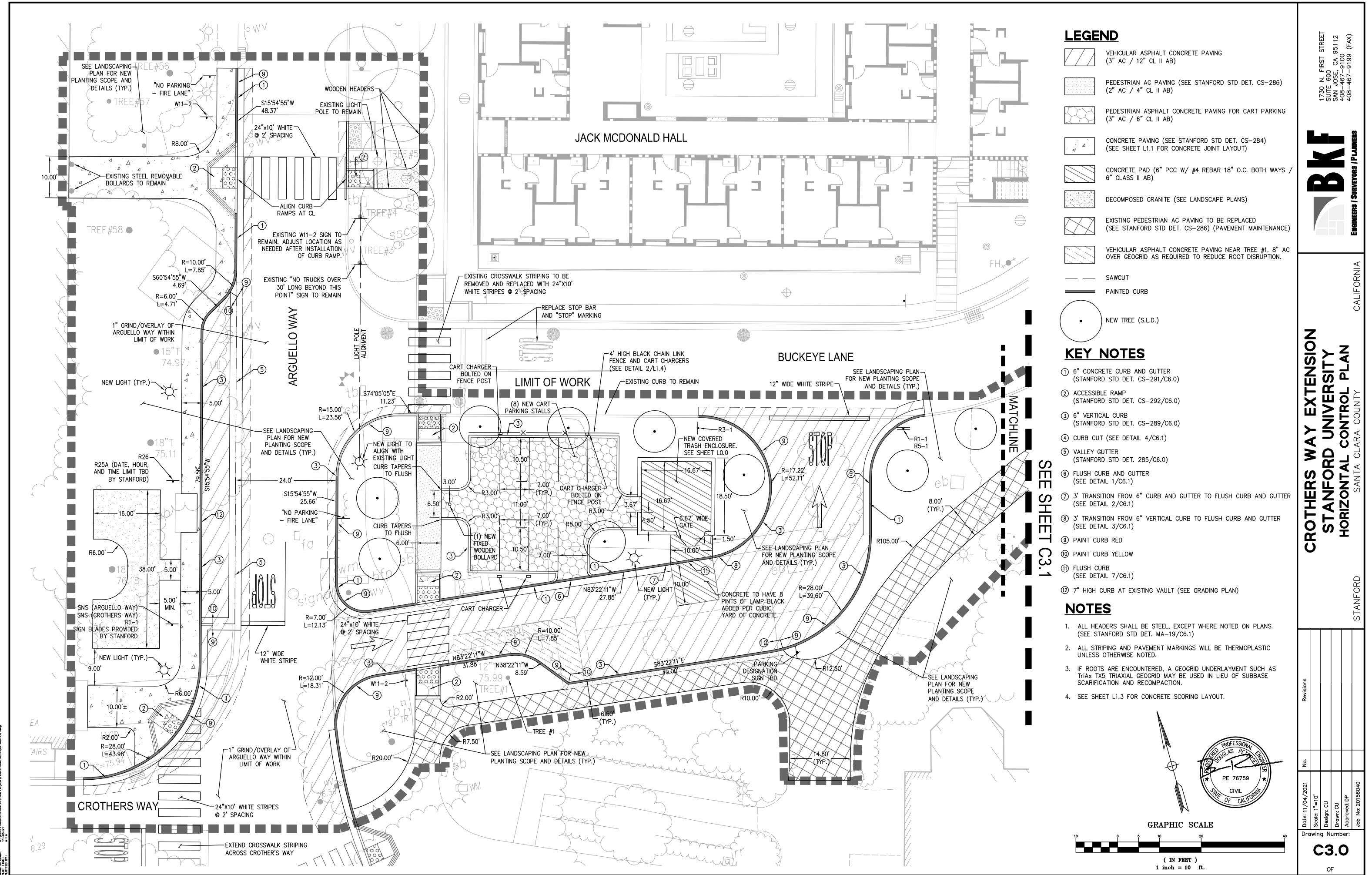


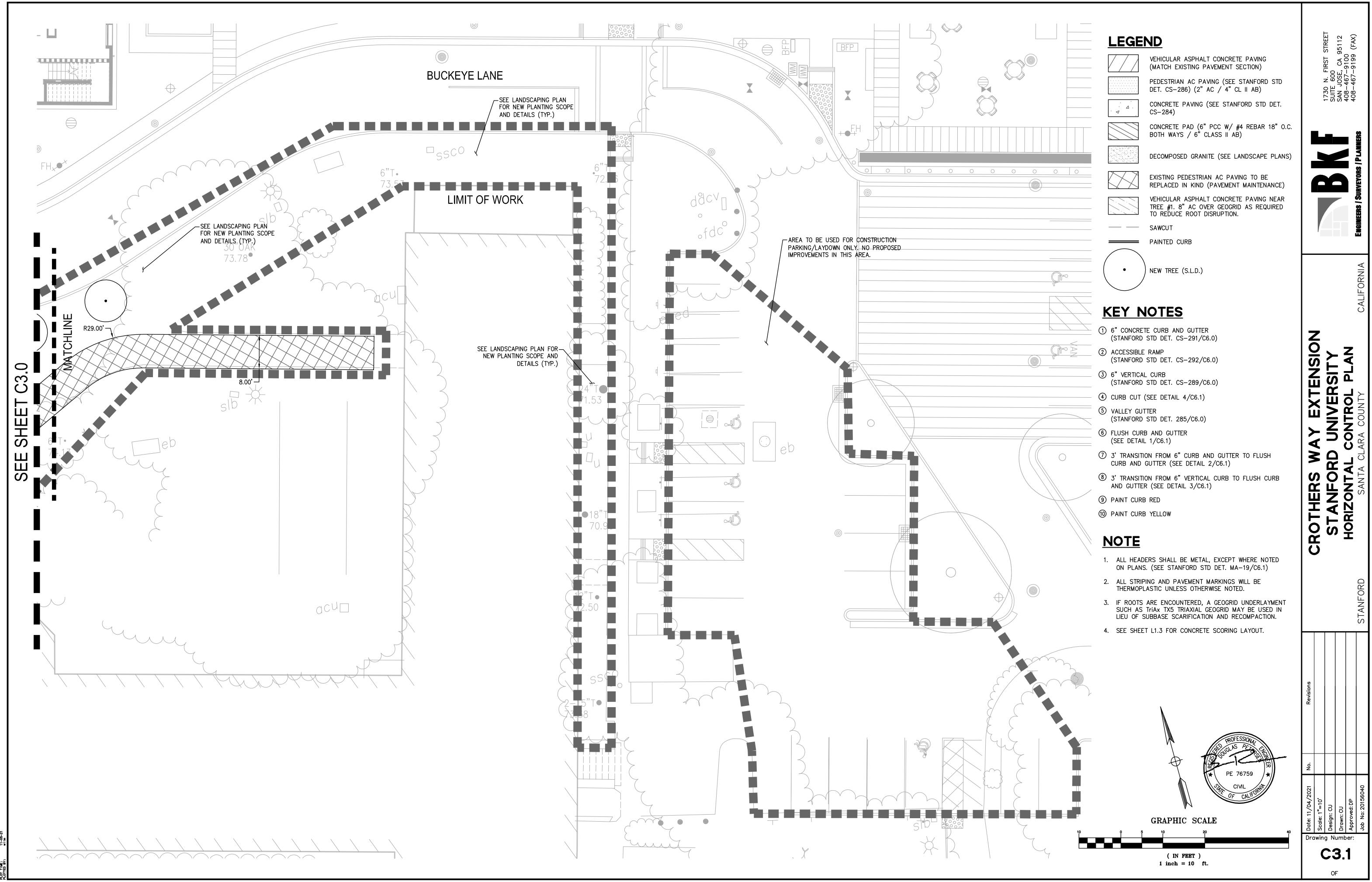


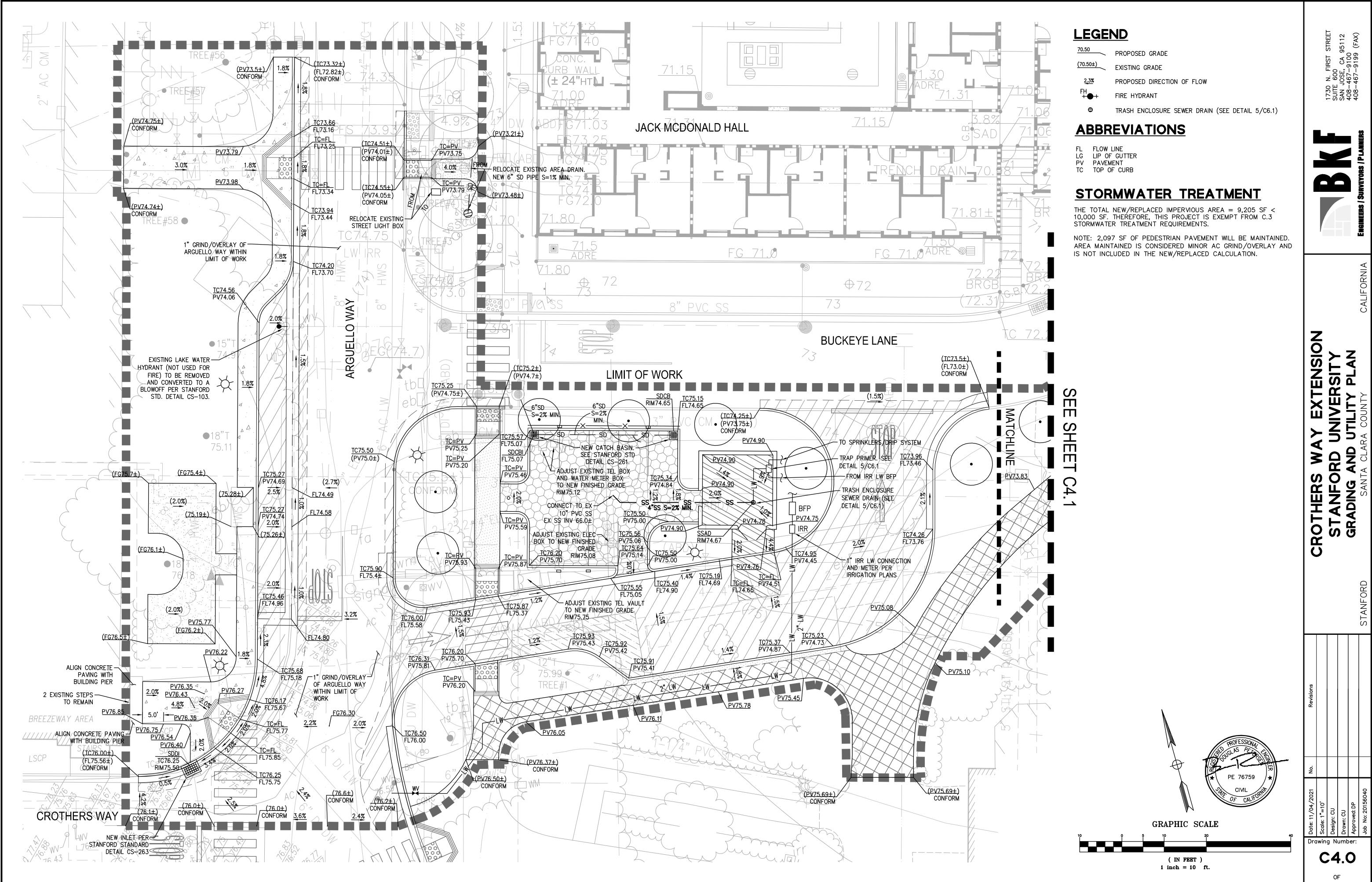




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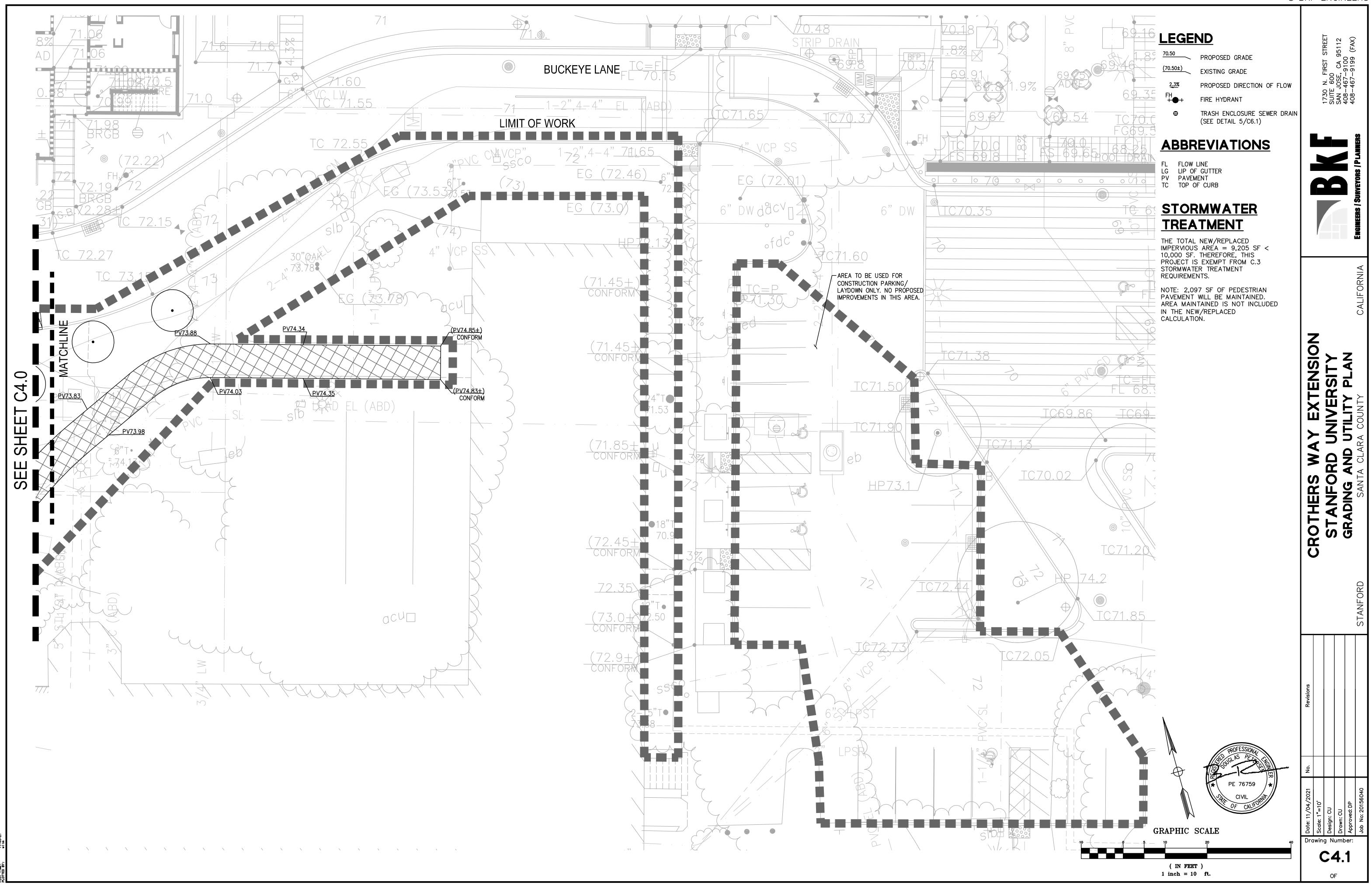


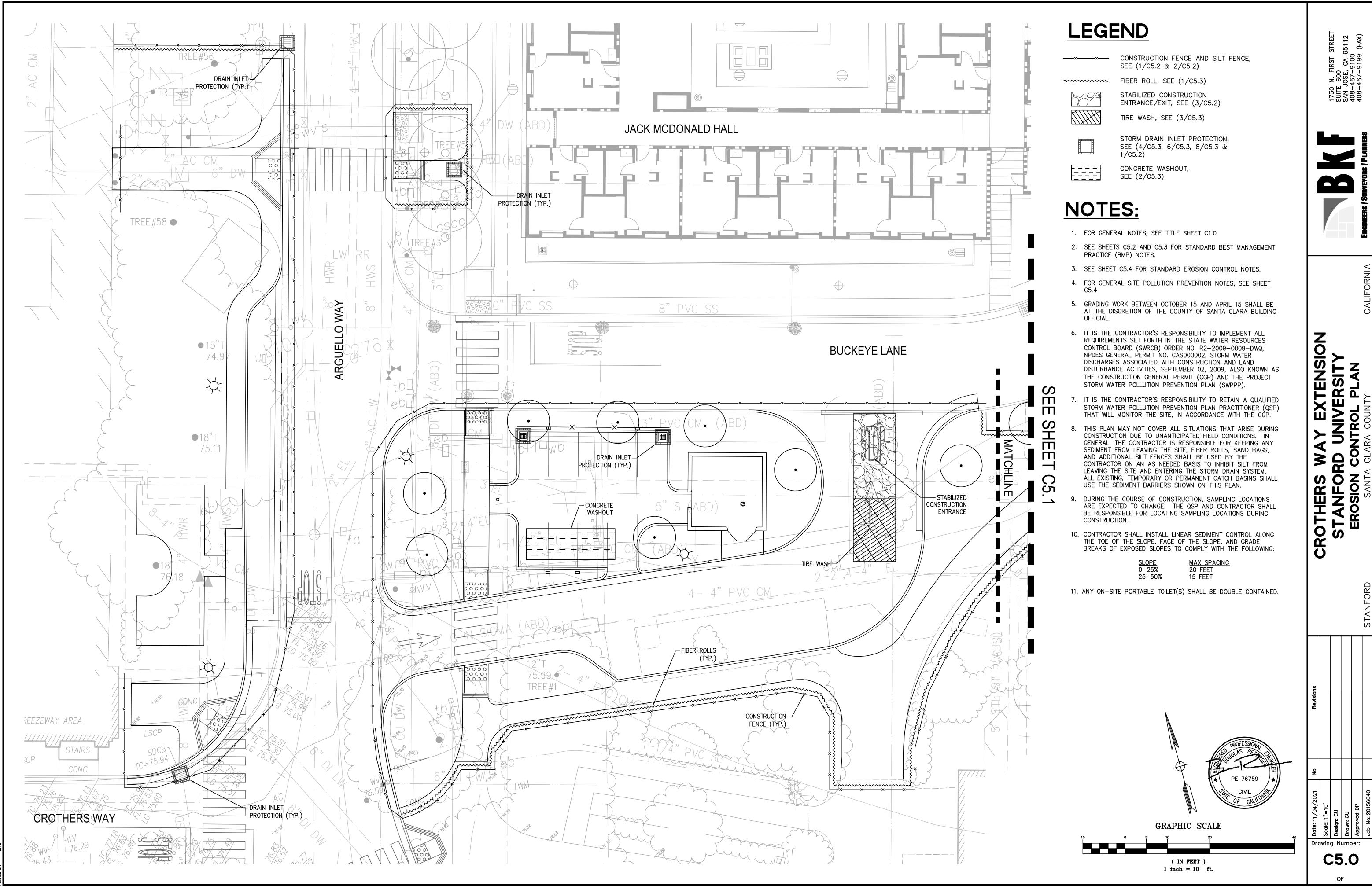


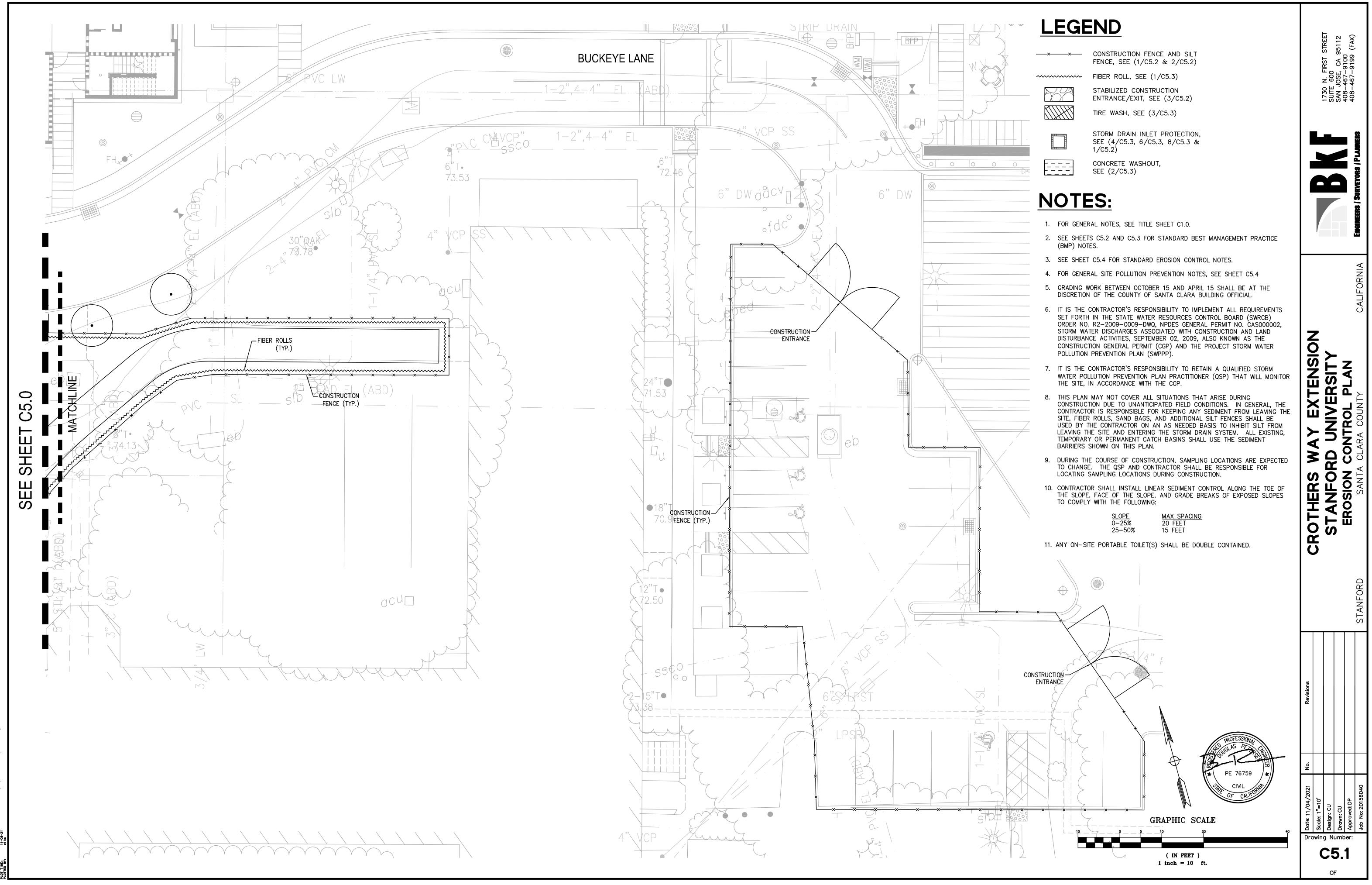


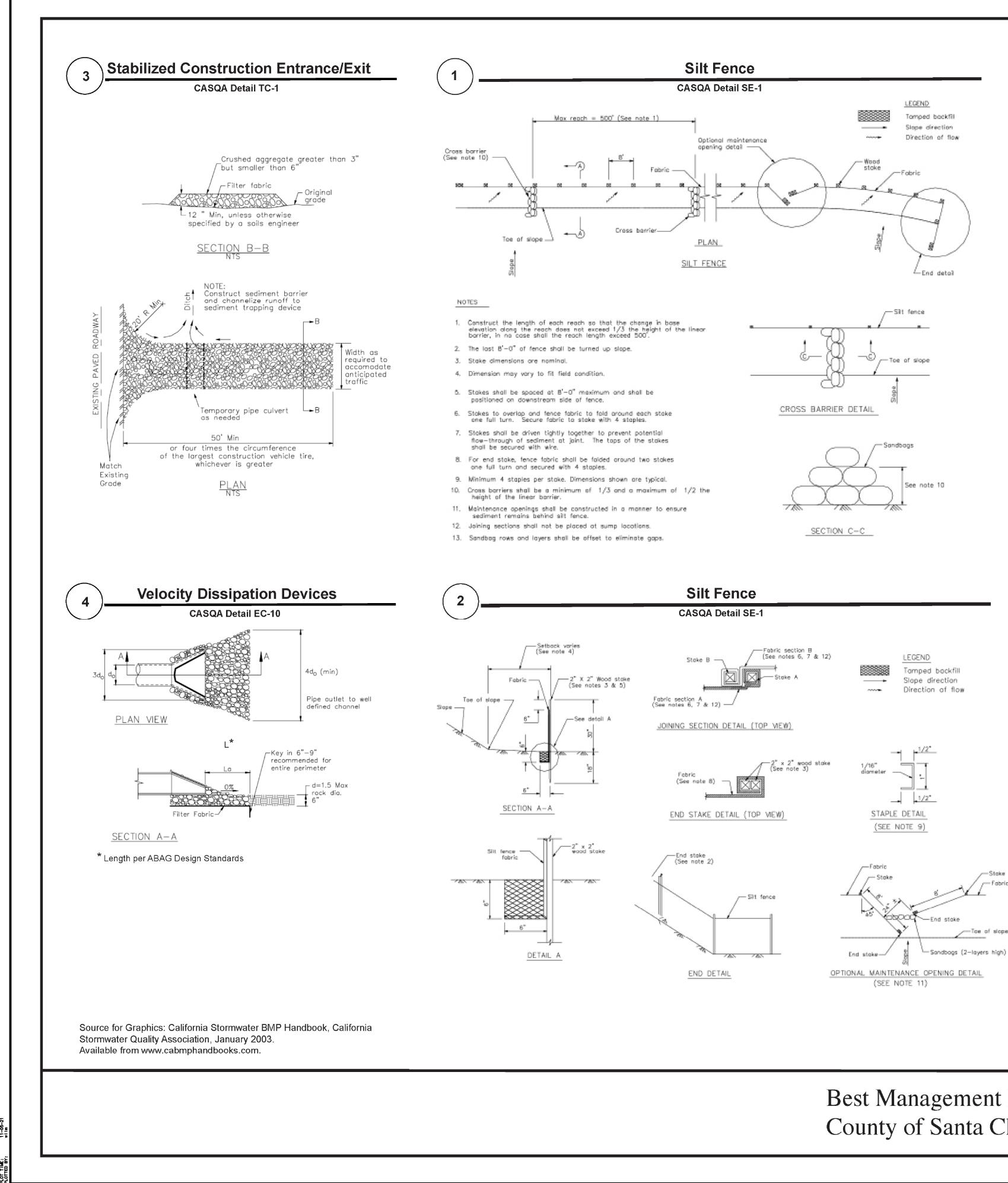
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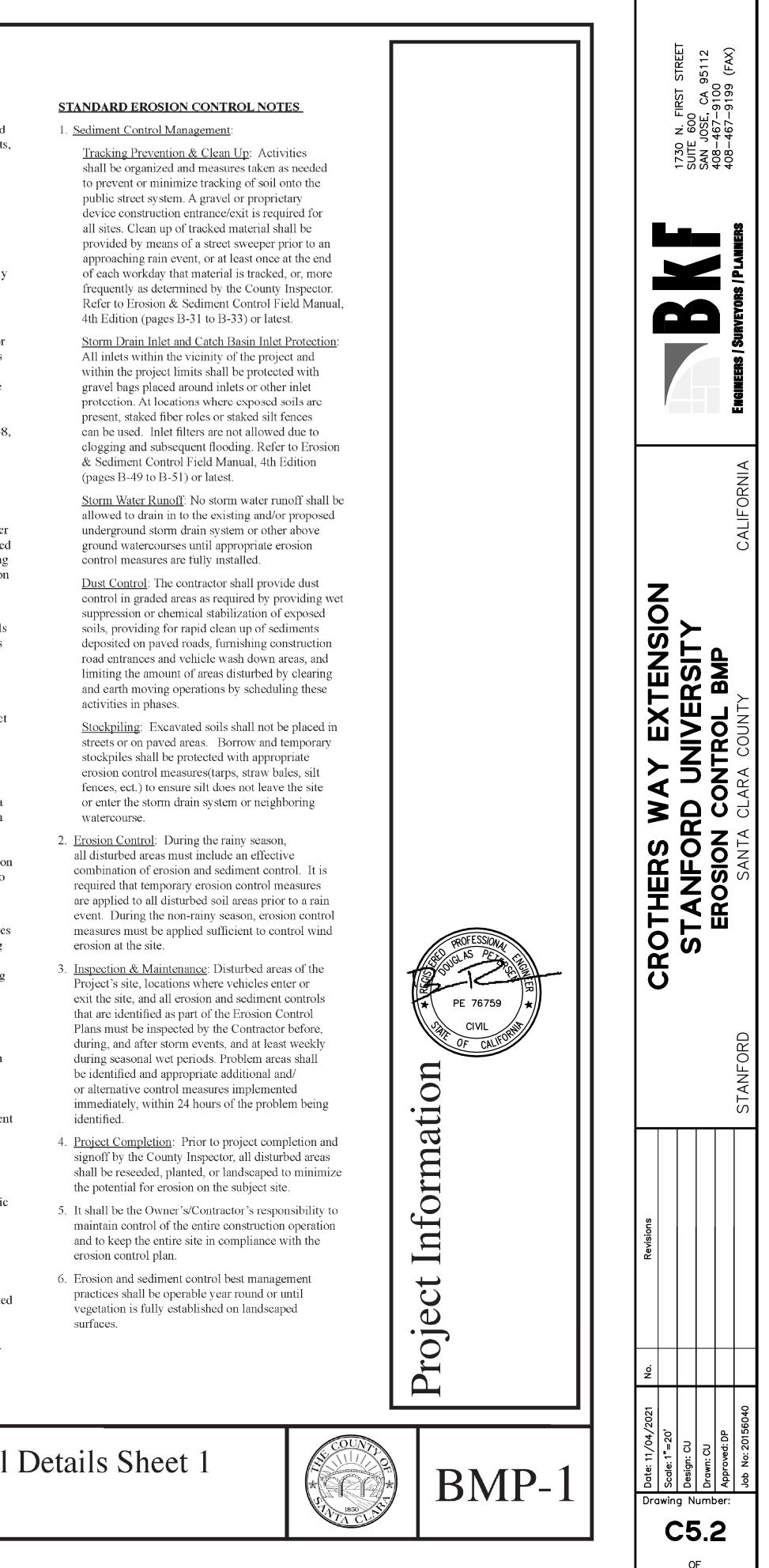


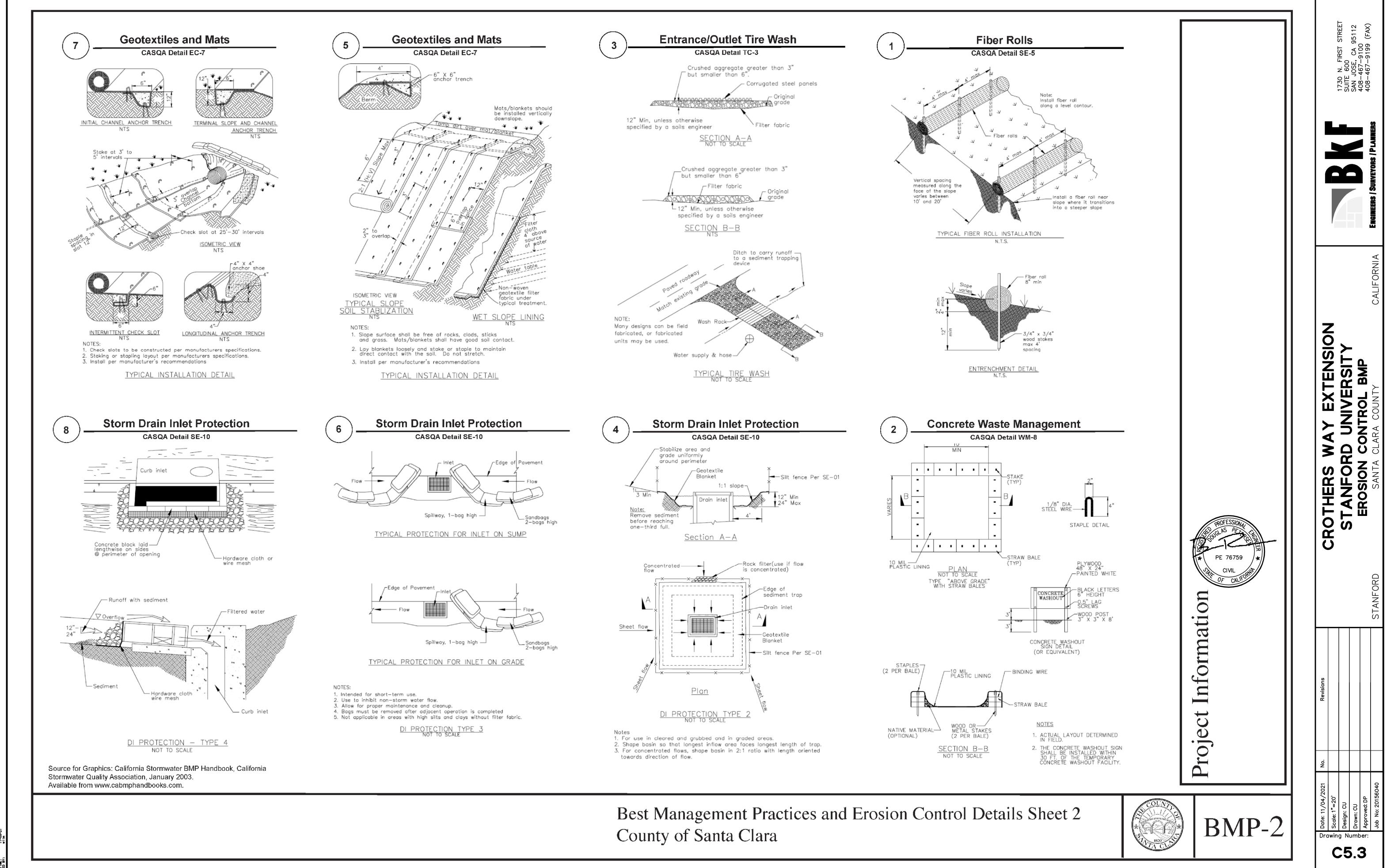


STANDARD BEST MANAGEMENT PRACTICE NOTES

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

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





OF

General Construction and Site **Supervision**

Best Management Practices for Construction



Who should use this brochure?

Fresh Concrete

Best Management Practices for

Who should use this brochure?

Concrete delivery/pumping workers

Earth-Moving

Dewatering

the Construction Industry

Best Management Practices for

Activities

Masons and bricklayers

Patio construction workers

Construction inspectors

General contractors

Home builders

Developers

and

Sidewalk construction crews

and Mortar

Application

the Construction Industry

- General contractors
- Site supervisors
- Inspectors
- Home builders
- Developers

Preventing Pollution: It's Up to Us

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay without treatment. Stormwater pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or baylands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion; landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or

storm drain Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. Join us, by following the practices described in this pamphlet.

Doing the Job Right General Principles

- □ Keep an orderly site and ensure good housekeeping practices are used.
- Maintain equipment properly.
- Cover materials when they are not in use. Keep materials away from streets, storm drains and drainage channels
- Ensure dust control water doesn't leave site or discharge to storm drains
- Advance Planning To Prevent Pollution Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion
- controls before rain begins. Use the Erosion and Sediment Control Manual, available form the Regional Water Quality Control Board, as a Control the amount of runoff crossing your site

(especially during excavation!) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce

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Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. Join us by following the practices described in this pamphlet.



Storm Drain Pollution from **Construction Activities**

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and

As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or

stormwater runoff velocities by constructing temporary check dams or berms where appropriate.

Train your employees and subcontractors. Mak these brochures available to everyone who works on the construction site. Inform subcontractors about the stormwater requirements and their own responsibilities. Use Blueprint for a Clean Bay, a construction best management practices guide available from the Santa Clara Valley Urban Runoff Pollution Prevention Program, as a reference.

Good Housekeeping Practices Designate one area of the site for auto parking vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site. □ Keep materials out of the rain – prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.

Keep pollutants off exposed surfaces. Place trash cans and recycling receptacles around the site to minimize litter.

Storm Drain Pollution from Fresh Concrete and

Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law

Doing the Job Right

General Business Practices

- U Wash out concrete mixers only in designated wash-out areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse Wash out chutes onto dirt areas at site that do
- not flow to streets or drains. Always store both dry and wet materials under cover, protected from rainfall and runoff and
- away from storm drains or waterways. Protect dry materials from wind. □ Secure bags of cement after they are open. Be
- sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff Do not use diesel fuel as a lubricant on
- concrete forms, tools, or trailers.

Storm Drain Pollution from Earth-Moving Activities and Dewatering

Soil excavation and grading operations looser large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Contaminated groundwater is a common problem in the Santa Clara Valley. Depending on soil types and site history, groundwater pumped from construction sites may be contaminated with toxics (such as oil or solvents) or laden with sediments. Any of these pollutants can harm wildlife in creeks or the Bay, or interfere with wastewater treatment

Discharging sediment-laden water from a dewatering site into any water of the state without treatment is prohibited.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary
- vegetation for erosion control on slopes or where construction is not immediately planned Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control
- secured tarps or plastic sheeting.

1. Check for Toxic Pollutants Check for odors, discoloration, or an oily shee on groundwater.

- and ask whether the groundwater must be If contamination is suspected, have the water ested by a certified laboratory. Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain (if no sediments present) or
- for treatment and disposal at an appropriate treatment facility. 2. Check for Sediment Levels
- □ If the water is clear, the pumping time is less the street or storm drain.
- If the water is not clear, solids must be filtered
- inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate. OR pump water through a grassy swale prior to discharge.
- Small Business Hazardous Waste **Disposal Program**

Who should use this brochure?

- Bulldozer, back hoe, and grading machine operators
- Dump truck drivers Site supervisors
- General contractors
- Home builders
- Developers

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay without treatment. Stormwater pollution is a serious problem for wildlife dependent on our waterways and for the people who live near

polluted streams or baylands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion, andscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.

Preventing Pollution:

It's Up to Us

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and ousinesses and fight stormwater pollution. Join us, by following the practices described in this pamphlet

- General Business Practices □ Schedule excavation and grading work during
- Perform major equipment repairs away from the
- When refueling or vehicle/equipment maintenance must be done on site, designate a
- Do not use diesel oil to lubricate equipment

location away from storm drains.

- parts, or clean equipment.
- Doing the Job Right
- drv weather.
- job site.

- - Cover stockpiles and excavated soil with
- plant operation.

- - Pumping through a perforated pipe sunk
- level using a submersible pump: a swimming pool filter or filter fabric wrapped around end of suction pipe.
 - U When discharging to a storm drain, protect the

Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down. Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction

Heavy

Equipment

Operation

Best Management Practices for

Who should use this brochure?

Site supervisors

Home builders

Developers

General contractors

Landscaping,

Gardening, and

the Construction Industry

Pool Maintenance

Best Management Practices for

Who should use this brochure?

Swimming pool/spa service

and repair workers

General contractors

Landscapers

Gardeners

Vehicle and equipment operators

the Construction Industry

Place portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks

Materials/Waste Handling Practice Source Reduction -- minimize waste when you order materials. Order only the amount Use recyclable materials whenever possible. Arrange for pick-up of recyclable materials such as

you need to finish the job.

creek or stream bed.

Permits

Control Board.

drain

has dried.

storm drains.

mortar in the trash.

concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires. Dispose of all wastes properly. Many construction materials and wastes, including solvents, waterbased paints, vehicle fluids, broken asphalt and

concrete, wood, and cleared vegetation can be recycled. (See the reference list of recyclers in Blueprint for a Clean Bay.) Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a In addition to local grading and building permits,

you will need to obtain coverage under the State's General Construction Activity Stormwater Permit i your construction site's disturbed area totals 5 acres or more. Information on the General Permi can be obtained from the Regional Water Quality



Don't mix up more fresh concrete or cement han you will use in a two-hour period. Set up and operate small mixers on tarps or eavy plastic drop cloths.

U When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm

Protect applications of fresh concrete and mortar from rainfall and runoff until the material

Wash down exposed aggregate concrete only

when the wash water can (1) flow onto a dirt

area: (2) drain onto a bermed surface from which it can be pumped and disposed of properly: or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters of

When breaking up pavement, be sure to pick up all the pieces and dispose of properly Recycle large chunks of broken concrete at a

- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and
- Home builders Never dispose of washout into the street, storm Developers drains, drainage ditches, or streams.
 - Homeowners

Dewatering Operations

Call your local wastewater treatment agency

sanitary sewer. OR, you may be required to collect and haul pumped groundwater offsite

than 24 hours, and the flow rate is less than 20 gallons per minute, you may pump water to □ If the pumping time is more than 24 hours and the flow rate greater than 20 gpm, call your local wastewater treatment plant for guidance. or settled out by pumping to a settling tank prior to discharge. Options for filtering include

> part way into a small pit filled with gravel: Pumping from a bucket placed below water Pumping through a filtering device such as

- - General contractors
 - Home builders Developers

Preventing Pollution: It's Up to Us

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay, without treatment. Stormwater pollution is a serious problem for wildlife dependent on our waterways and for people who live near polluted streams or baylands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion, landscaping runoff containing pesticides or weed killers; and materials such as used motor oil antifreeze and paint products that people pour or spill into streets or storm drains

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. Join us. by following the practices described in this pamphlet.

Doing the Job Right

Site Planning and Preventive Vehicle Maintenance

Designate one area of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment maintenance Contain the area with berms, sand bags, or other barriers.

Stormwater Pollution from Heavy Equipment on **Construction Sites**

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.

- Perform major maintenance, repair jobs, and vehicle and equipment washing off site where cleanup is easier
- □ If you must drain and replace motor oil, radiator coolant, or other fluids on site, use drip pans or drop cloths to catch drips and spills. Collect all spent fluids, store in separate containers, and properly dispose as hazardous waste (recycle whenever possible)
- Do not use diesel oil to lubricate equipment parts, or clean equipment. Use only water for any onsite cleaning.
- Cover exposed fifth wheel hitches and other oily or greasy equipment during rain events.

Spill Cleanup

- Clean up spills immediately when they happen.
- Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- Sweep up spilled dry materials immediately Never attempt to "wash them away" with water, or burv them.
- Use as little water as possible for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills to the appropriate local spill response agencies immediately. (See reverse side of brochure for telephone numbers)
- If the spill poses a significant hazard to human health and safety, property or the environmer you must also report it to the State Office of Emergency Services (see reverse).

When it's time to drain a pool, spa, or fountain,

treatment plant before you start for further guidance

on flow rate restrictions, backflow prevention, and

wash). Discharge flows should be kept to the low

Never discharge pool or spa water to a street

□ If possible, when emptying a pool or spa, let

Do not use copper-based algaecides. Contro

algae with chlorine or other alternatives, such

Never clean a filter in the street or near a storm

If there is no suitable dirt area, call your local

drain. Rinse cartridge and diatomaceous earth

filters onto a dirt area, and spade filter residue

into soil. Dispose of spent diatomaceous earth

wastewater treatment plant for instructions on

discharging filter backwash or rinsewater to the

chlorine dissipate for a few days and then

recycle/reuse water by draining it gradually onto

or storm drain; discharge to a sanitary sewer

handling special cleaning waste (such as acid

levels typically possible through a garden hose.

Higher flow rates may be prohibited by local

please be sure to call your local wastewater

Preventing Pollution: It's Up to Us

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Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. Join us, by following the practices described in this pamphlet.

Doing the Job Right

General Business Practices

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- □ Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains
- Protect storm drains with sandbags or other
- sediment controls. □ Revegetation is an excellent form of erosion control for any site.

from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming poo water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

- Landscaping/Garden Maintenance Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinsewater as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste
- Collect lawn and garden clippings, pruning waste, and tree trimmings. Chip if necessary, and compost.
- □ In communities with curbside pick-up of yard waste, place clippings and pruning waste at the curb in approved bags or containers. Or, take to a landfill that composts yard waste. No curbside pickup of yard waste is available for commercial properties
- Do not blow or rake leaves, etc. into the street. or place vard waste in gutters or on dirt shoulders, unless you are piling them for recycling (allowed by San Jose and unincorporated County only). Sweep up any leaves, litter or
- residue in autters or on street □ In San Jose, leave yard waste for curbside recycling pickup in piles in the street, 18 inches from the curb and completely out of the flow line to any storm drain.

Storm Drain Pollution from

Paints, Solvents, and

Adhesives

and cleaning fluids should be recycled when

possible, or disposed of properly to prevent

□ Keep all liquid paint products and wastes

solvents, glues, and cleaning fluids are

away from the gutter, street, and storm

drains. Liquid residues from paints, thinners,

hazardous wastes and must be disposed of at

a hazardous waste collection facility (contact

your local stormwater program listed on the

U When thoroughly dry, empty paint cans, used

disposed of as garbage in a sanitary landfill

U Wash water from painted buildings constructed

begin stripping paint or cleaning pre-1978

uilding exteriors with water under high

pressure, test paint for lead by taking paint

scrapings to a local laboratory. See Yellow

paint tests positive for lead, block storm drains

Check with the wastewater treatment plant to

determine whether you may discharge water to

the sanitary sewer, or if you must send it offsite

Pages for a state-certified laboratory.

□ If there is loose paint on the building, or if the

for disposal as hazardous waste.

Empty, dry paint cans also may be recycled as

before 1978 can contain high amounts of lead,

even if paint chips are not present. Before you

brushes, rags, and drop cloths may be

and watercourses.

Doing the Job Right

Handling Paint Products

back of this brochure).

these materials from flowing into storm drains

Painting Cleanup Never clean brushes or rinse paint

- containers into a street, gutter, storm drain, French drain, or stream. For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint
- down a storm drain. For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids and residue as hazardous waste.

Paint Removal

- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified
- contractor U When stripping or cleaning **building exteriors** with high-pressure water, block storm drains. Direct wash water onto a dirt area and spade into soil. Or, check with the local wastewater treatment authority to find out if you can collect (mop or vacuum) building cleaning water and dispose to the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.
- Recycle/Reuse Leftover Paints Whenever Possible.

Recycle or donate excess water-based (latex) paint, or return to supplier.

- Reuse leftover oil-based paint. Dispose of non-recyclable thinners, sludge and unwanted paint, as hazardous waste.
- Unopened cans of paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.



Preventing Pollution: It's Up to Us Application of

Best Management Practices for

Solvents and **Adhesives** the Construction Industry

Painting and



Who should use this brochure?

- Homeowners Painters
- Paperhangers Plasterers
- Dry wall crews
- Floor covering installers
- Graphic artists

Thirteen valley municipalities have joined together Water District to educate local residents and

streams or baylands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion; landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.

with Santa Clara County and the Santa Clara Valley businesses and fight stormwater pollution. Join us, by following the practices described in this pamphlet.

In the Santa Clara Valley, storm drains transpor water directly to local creeks and San Francisco Bay without treatment. Stormwater pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liqui or solid products or from cleaning residues or rags. Paint material and wastes, adhesives

Storm Drain Pollution Pool/Fountain/Spa Maintenance Draining pools or spas

ordinance

cleanout

a landscaped area.

as sodium bromide.

Filter Cleaning

in the garbage.

sanitary sewer.

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SUIT SAN 408-

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Roadwork and Paving

Best Management Practices for the Construction Industry



Who should use this brochure? Road crews

- Driveway/sidewalk/parking lot
- construction crews
- Seal coat contractors Operators of grading equipment, paving machines, dump trucks,
- concrete mixers Construction inspectors
- General contractors
- Home builders Developers

- construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms. Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch
- drips when not in use. Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose
- of contaminated soil. Collect and recycle or appropriately dispose of excess abrasive gravel or sand.
- Avoid over-application by water trucks for dust control.

Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm



÷ •

OPTIONAL OVERFLOW

SILTSACK

DUMP LOOPS -

(REBAR NOT INCLUDED)

INSERT 1" REBAR

FROM INLET

FOR BAG REMOVAL

(REBAR NOT INCLUDED)

Preventing Pollution: It's Up to Us In the Santa Clara Valley, storm drains transport

water directly to local creeks and San Francisco Bay without treatment. Stormwater pollution is a serious problem for wildlife dependent on our creeks and bay and for the people who live near polluted streams or baylands. Common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion: landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. Join us, by following the practices described in this pamphlet.

Doing the Job Right

General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments.
- Schedule excavation and grading work during drv weather
- Check for and repair leaking equipment. Perform major equipment repairs at designated
- areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.

Small Business Hazardous Waste Disposal Program

Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use Santa Clara County's Small Business Hazardous Waste Disposal Program. Call (408) 299-7300 for a quote, more information or quidance on disposal.

collection, for small businesses. Call the City of Palo Alto, (650) 496-6980, or Greenfield Services Corporation, 1-800-433-5060 for information or to schedule an appointment. This brochure is one in a series of pamphlets describing storm drain pollution prevention

Palo Alto operates a similar program, with monthly

measures for specific types of construction industry activities. Other pamphlets include:

General Construction and Site Supervision Landscaping, Gardening, and Pool

Painting and Application of Solvents and Adhesives

Fresh Concrete and Mortar Application Earth-Moving Activities and Dewatering Activitie

Heavy Equipment Operation Home Repair and Remodeling

For additional brochures call 1-800-794-2482.

June 2001

SIDE VIEW INSTALLED

INSTALLATION DETAIL

ACF Environmental, Inc

2831 Cardwell Rd. Richmond, Virginia 23234 (800) 448-3636

EXPANSION DESTRAINT

DETAIL OF INLET SEDIMENT CONTROL DEVICE

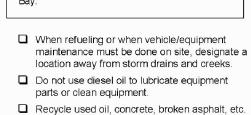
TYPE A - WITHOUT CURB DEFLECTOR

INLET SEDIMENT BARRIER

Environmental

Your Complete Source for Geosynthetic Solutions





Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly.

Storm Drain Pollution

Road paving, surfacing, and pavement remova

happen right in the street, where there are

numerous opportunities for asphalt, saw-cut

slurry, or excavated material to illegally enter

storm drains. Extra planning is required to store

and dispose of materials properly and quard

against pollution of storm drains, creeks, and the

from Roadwork

During Construction

- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- Never wash excess material from exposedaggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other

Spill Response Agencies:

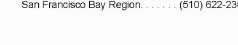
- 1. In the City of Santa Clara, call (408) 984-3080. In the City of Palo Alto, call (650) 329-2413. In the City of San Jose, dial 9-1-1 if hazardous materials enter the storm drain system. For non-hazardous spills, call (408) 945-3000. 4. In other cities, DIAL 9-1-1 5. State Office of Emergency Services Warning Center (24 hours). . .
- 6. Santa Clara County Environmental Health ...(408) 299-6930 Services.

Local Pollution Control Agencies County of Santa Clara Pollution Prevention Program. . . . (408) 441-1195 County of Santa Clara Integrated Waste (408) 441-1198 Management Program.... County of Santa Clara District Attorney Environmental Crimes Hotline . . . (408) 299-TIPS Santa Clara County ...1-800-533-8414 Recycling Hotline.

Santa Clara Valley Water District
Santa Clara Valley Water District Pollution Hotline 1-888-510-5151
San Jose/Santa Clara Water Pollution Control Plant (408) 945-3000 Serving Campbell, Cupertino, Los Gatos, Milpitas, Monte Sereno, San Jose, Santa Clara, Saratoga
Sunnyvale Water Pollution Control Plant Serving Sunnyvale (408) 730-7270
Regional Water Quality

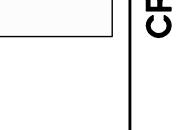
Control Plant. . . (650) 329-2598 Serving East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford

Regional Water Quality Control Board San Francisco Bay Region.

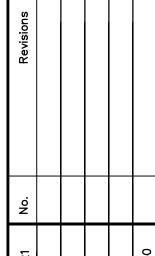


... (510) 622-2300









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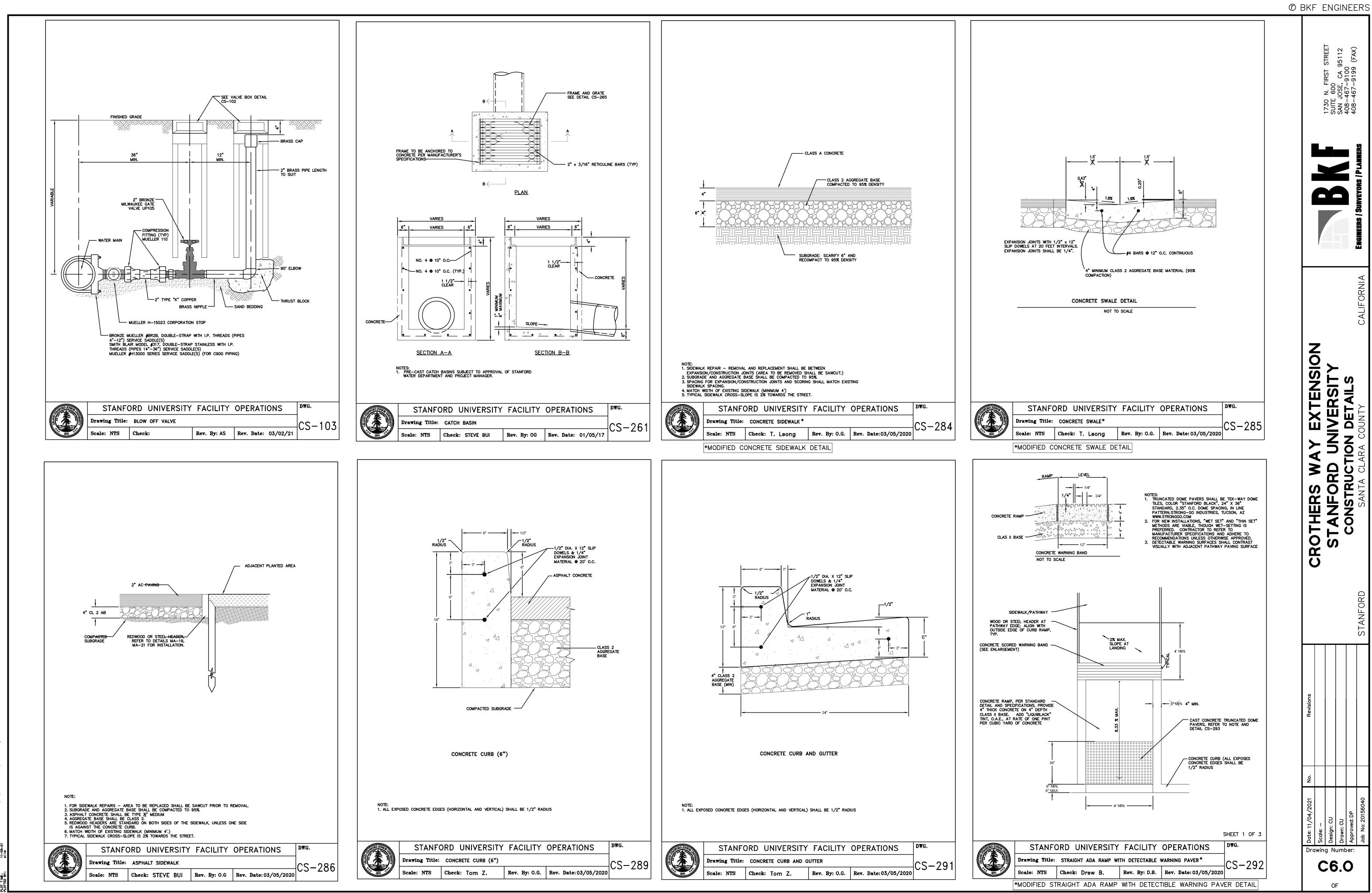
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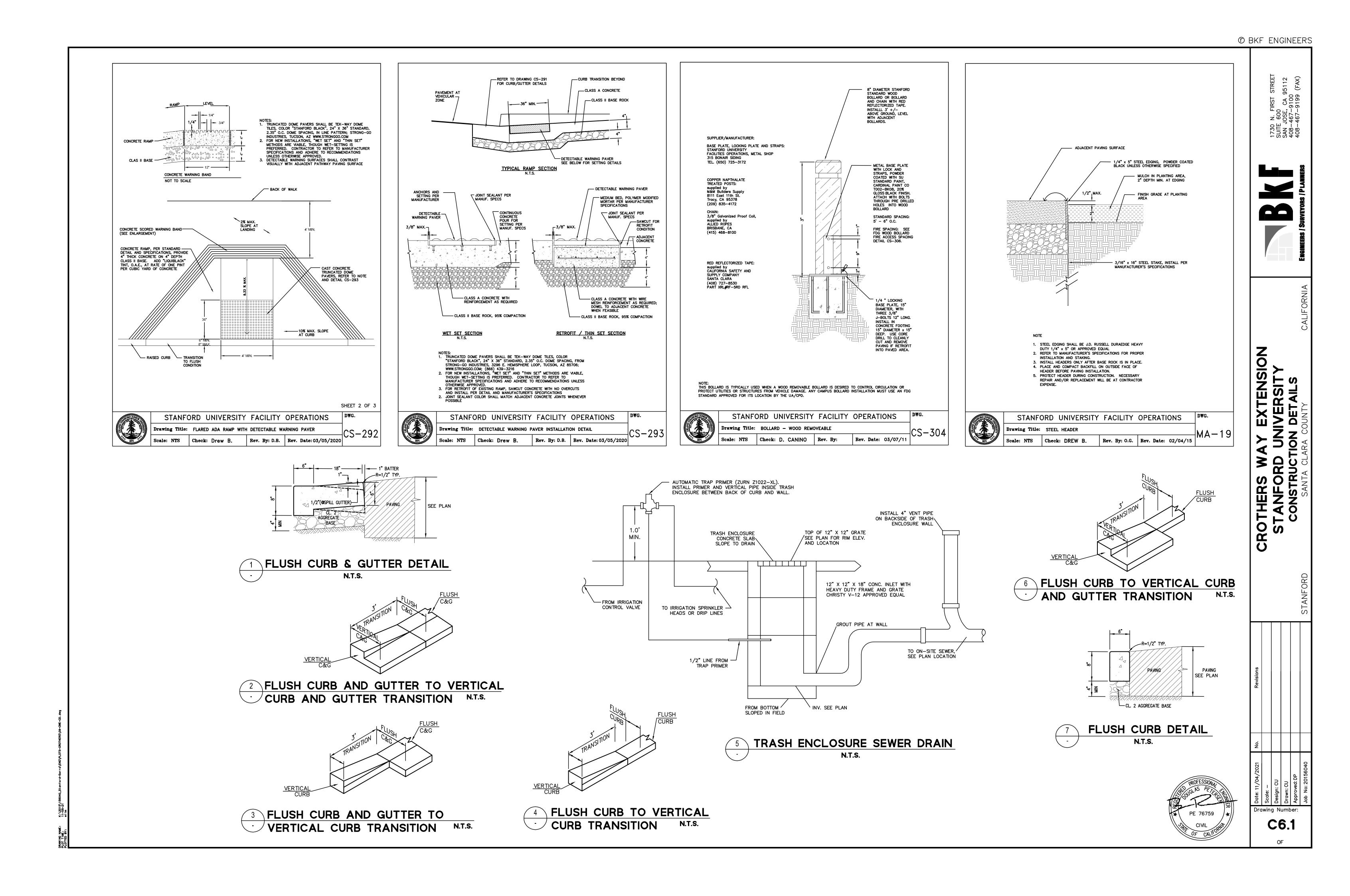
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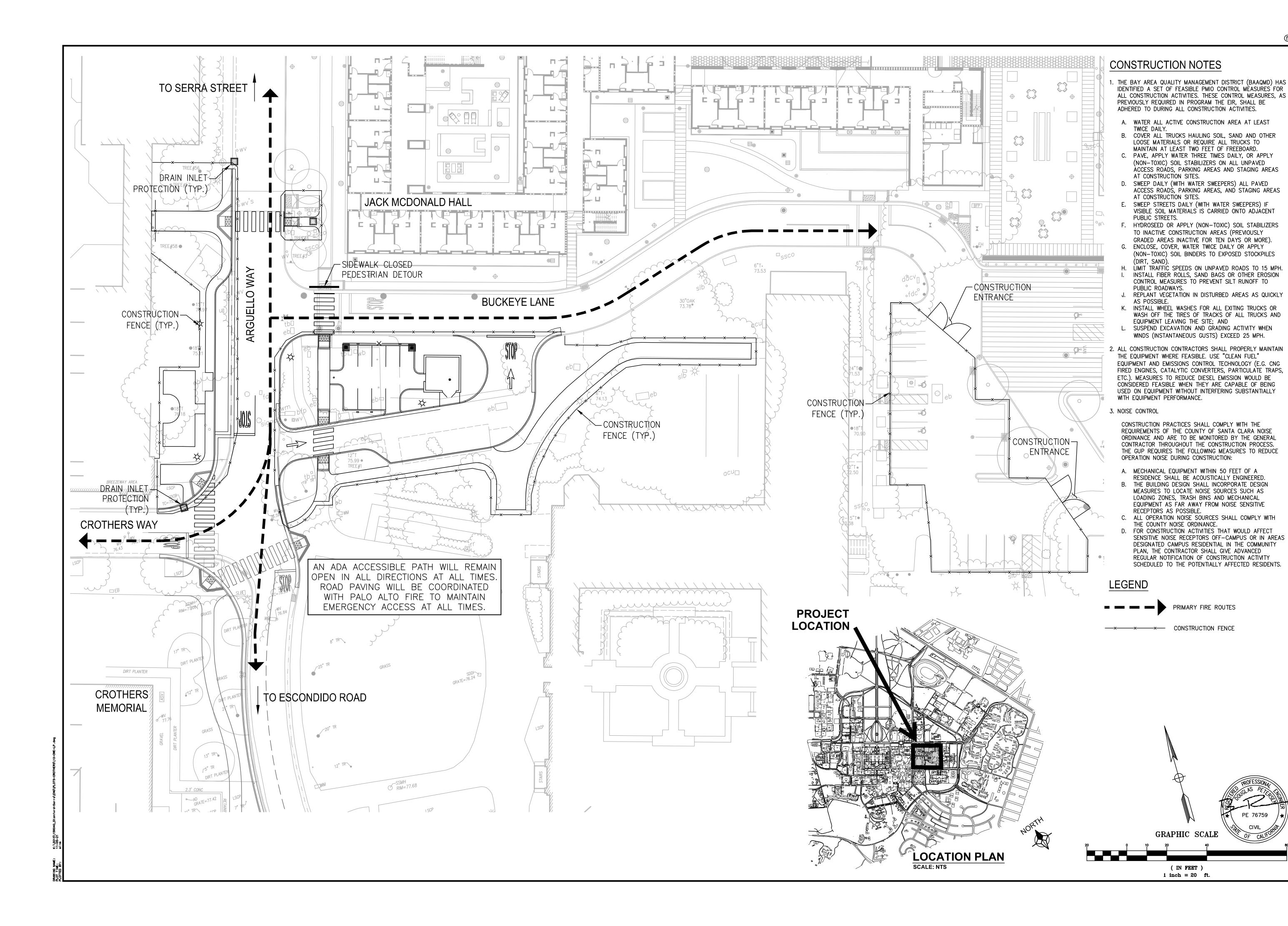


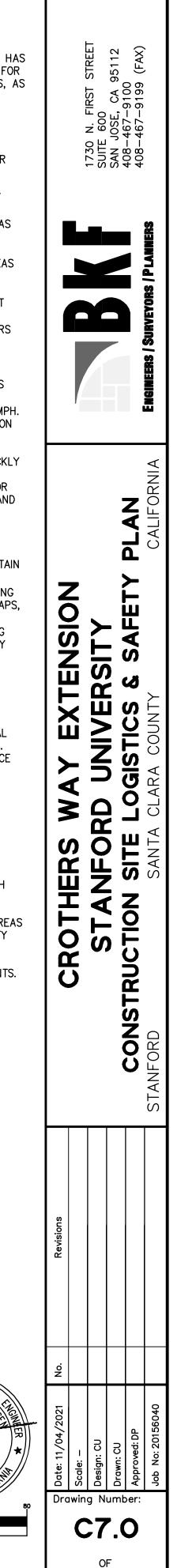
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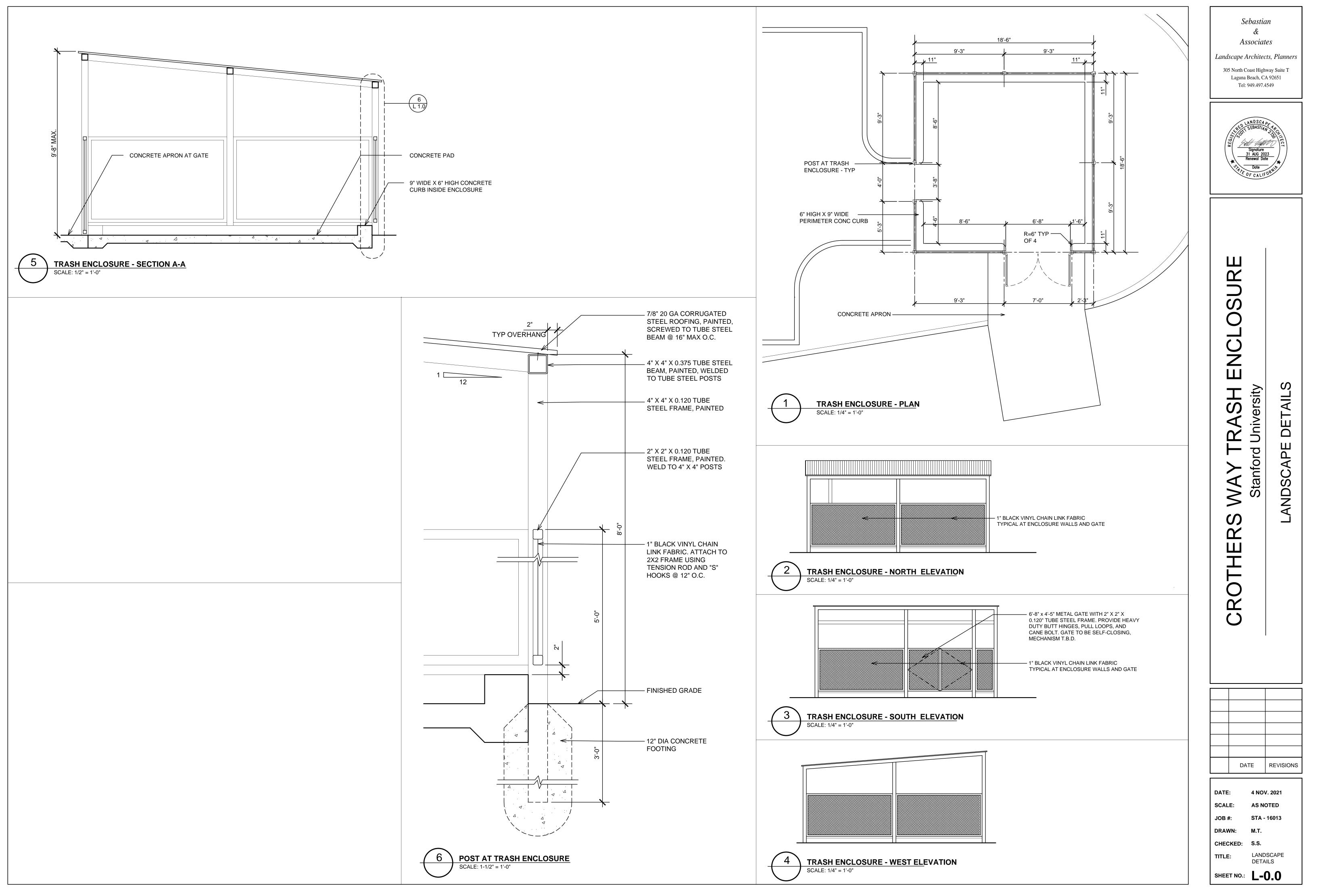


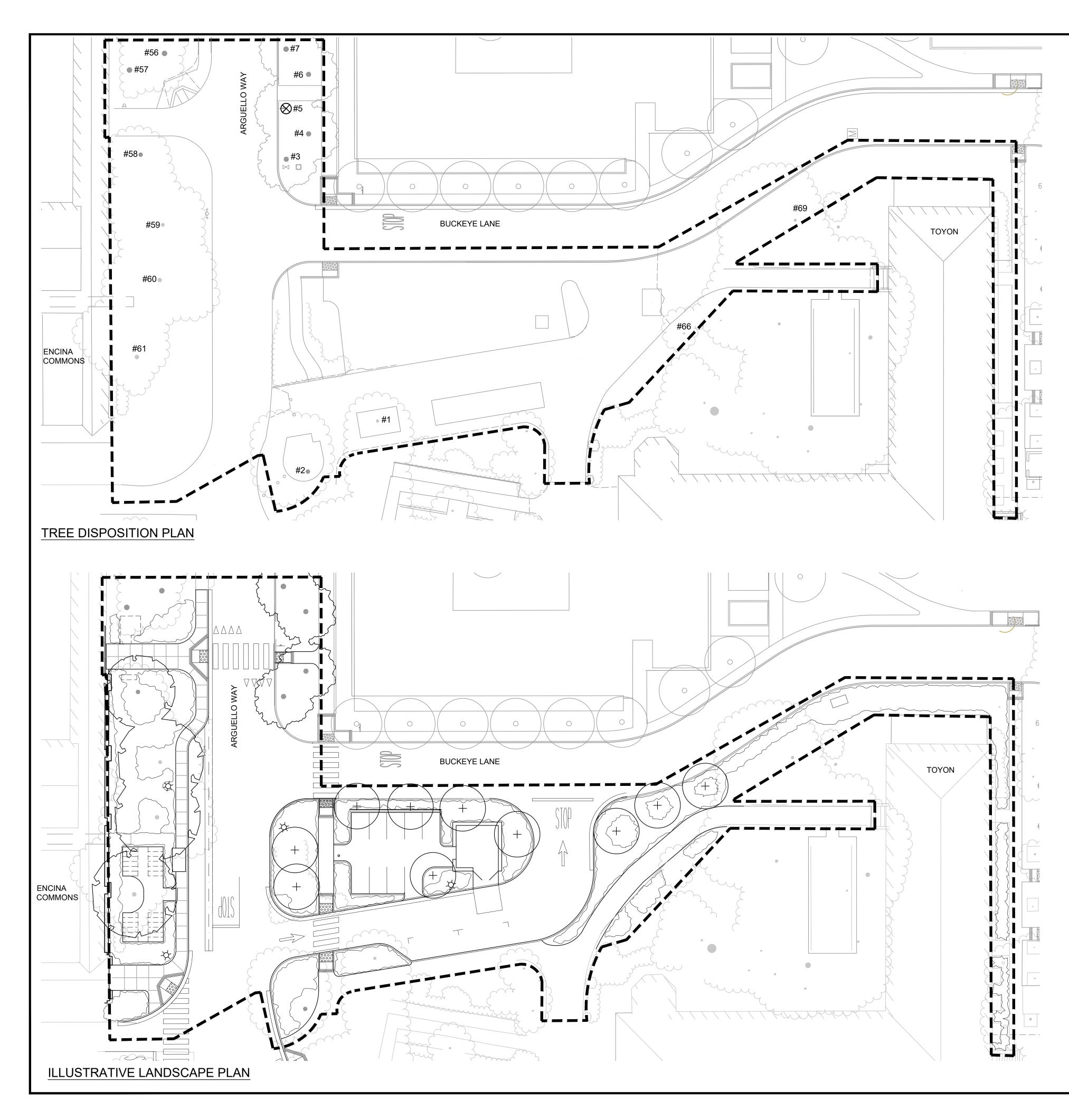




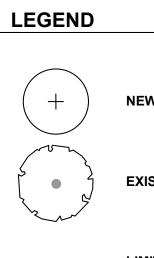








Tree No	Common Name	Scientific Name Genus, Species	Trunk Dia(in)	Proposed Action
1	Quercus agrifolia	California Live Oak	13.2	protect in place
2	Quercus agrifolia	California Live Oak	19.9	protect in place
3	Eucalyptus sideroxylon 'Rosea'	Red Ironbark	7.9	protect in place
4	Eucalyptus sideroxylon	Red Ironbark	5.3	protect in place
5	Eucalyptus sideroxylon	Red Ironbark	6.5	remove
6	Eucalyptus sideroxylon	Red Ironbark	6.5	protect in place
7	Eucalyptus sideroxylon	Red Ironbark	5.2	protect in place
56	Quercus agrifolia	California Live Oak	14	protect in place
57	Quercus agrifolia	California Live Oak	5.4	protect in place
58	Quercus agrifolia	California Live Oak	10.2	protect in place
59	Quercus agrifolia	California Live Oak	18.2	protect in place
60	Quercus agrifolia	California Live Oak	18.9	protect in place
61	Quercus agrifolia	California Live Oak	21.8	protect in place
66	Quercus rubra	Red Oak	4.9	protect in place
69	Quercus agrifolia	Coast Live Oak	18.5	protect in place



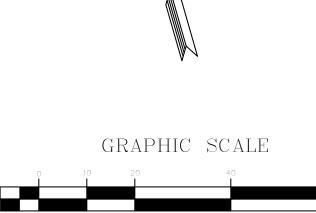
EXISTING TREE TO REMAIN

LEGEND

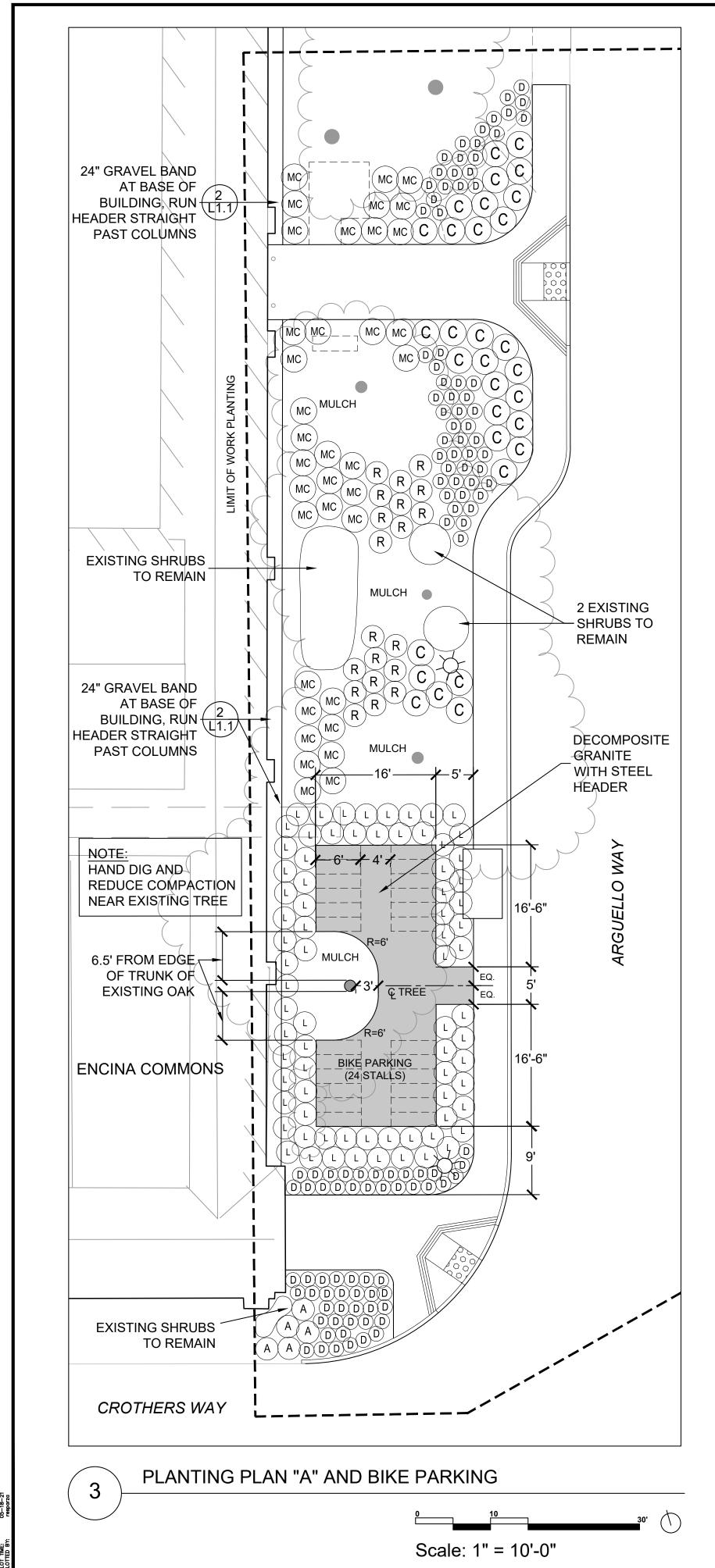
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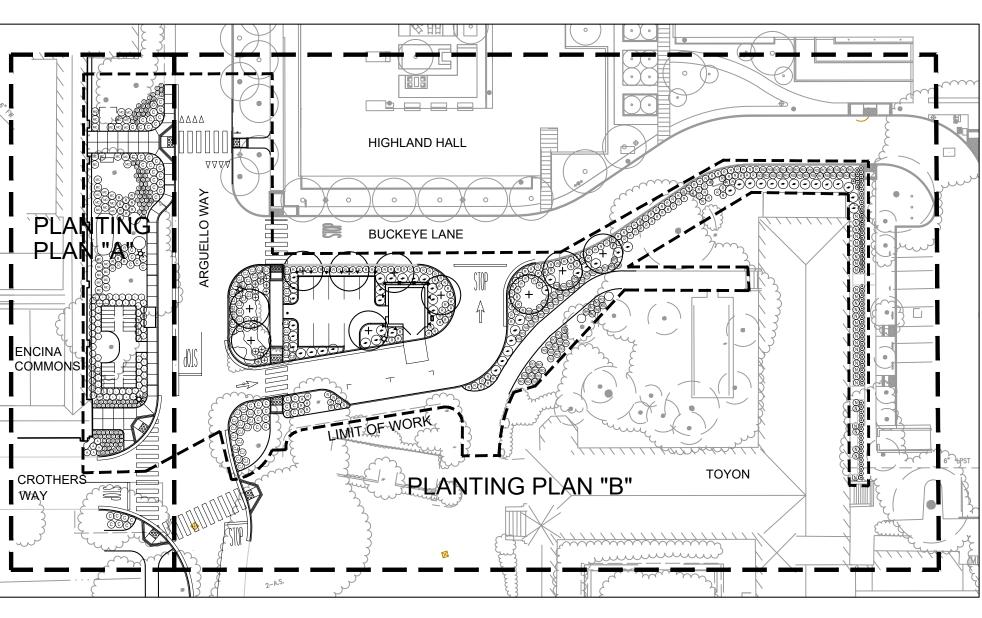
NEW TREE EXISTING TREE



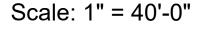
(IN FEET) 1 inch = 20 ft.

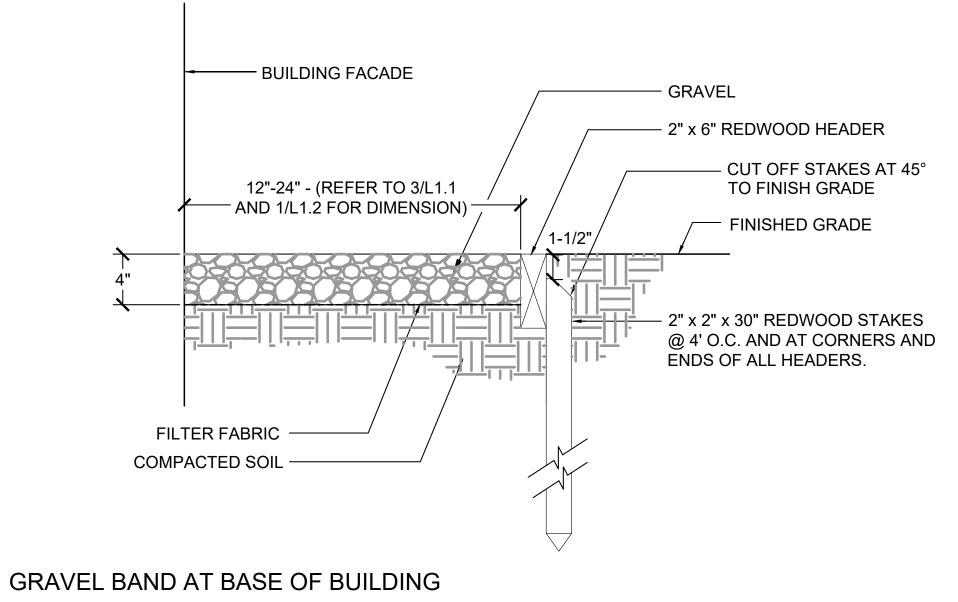


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KEY - PLANTING PLAN

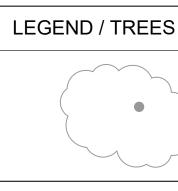




N.T.S.

MATERIALS NOTES

- 1. STABILIZED DECOMPOSED GRANITE TO BE "CALIFORNIA GOLD" BY TMT ENTERPRISES INC., OR APPROVED EQUAL.
- 2. WOOD HEADER TO BE 2 X 6 REDWOOD.
- 3. GRAVEL TO BE 3/4" DESERT GOLD BY LYNGSO, OR APPROVED EQUAL.
- 4. STEEL HEADER TO BE 1/4 X 5" BY DURA EDGE, OR APPROVED EQUAL.



2 QW Quercus wislizenii Interior Live Oak 36" Box SHRUBS 5 A Abelia grandifolia Glossy Abelia 5 gal. 5 A Abelia grandifolia Glossy Abelia 5 gal. 54 C.J Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C Ceanothus griseus horizontalis Yankee Point Ceanothus 5 gal. 119 D Dietes iridioides Fortnight Lily (white and violet flower) 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 71 ○ Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 R Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 Rosa flower c	PLANTING LIST					
8 PC Pistacia chinensis Chinese Pistache 36" Box 2 QW Quercus wislizenii Interior Live Oak 36" Box SHRUBS 5 A Abelia grandifolia Glossy Abelia 5 gal. 5 A Abelia grandifolia Glossy Abelia 5 gal. 54 CJ Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C Ceanothus griseus horizontalis 'Yankee Point' Yankee Point Ceanothus 5 gal. 119 D Dietes iridioides Fortnight Lily (white and violet flower) 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 ③ Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 R	SPACING	SIZE	MMON NAME	SCIENTIFIC NAME C	SYMBOL	QTY
2 QW Quercus wisiizenii Interior Live Oak 36" Box SHRUBS 5 A Abelia grandifolia Glossy Abelia 5 gal. 5 A Delia grandifolia Glossy Abelia 5 gal. 64 C Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C Ceanothus griseus horizontalis Yankee Point Ceanothus 5 gal. 119 D Dietes indioides Fortnight Lily (white and violet flower) 5 gal. 51 • Heteromeles arbuttfolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 71 ③ Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 24 Rosa flower carpet pink supreme <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>TREES</td>	_					TREES
SHRUBS Abelia grandifolia Glossy Abelia 5 gal. 5 A Abelia grandifolia Glossy Abelia 5 gal. 64 CJ Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C Ceanothus griseus horizontalis 'Yankee Point' Yankee Point Ceanothus 5 gal. 119 D Dietes iridioides Fortnight Lily (white and violet flower) 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 145 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Hound San Bruno' 5 gal. 71 • Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 16 Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 52 Ro Rosa flower carpet white White Flower Carpet Rose 5 gal.	As Shown	36" Box	Chinese Pistache	Pistacia chinensis	PC	8
5 A Abelia grandifolia Glossy Abelia 5 gal. 54 CJ Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C Ceanothus griseus horizontalis Yankee Point Ceanothus 5 gal. 119 D Dietes indioides Fortnight Lily (white and violet flower) 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 145 R Rhamnus californica 'Yound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 • Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 Rŵ Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 Rosa flower carpet scarlet Scarlet Flower Carpet Rose 5 gal. 52 Rô Rosa flower carpet white White Flower Carpet Rose 5 gal.	As Shown	36" Box	Interior Live Oak	Quercus wislizenii	QW	2
54 C. Ceanothus 'Joyce Coulter' Creeping Mountain Lilac 5 gal. 46 C. Ceanothus griseus horizontalis 'Yankee Point' Yankee Point Ceanothus 5 gal. 119 D. Dietes iridioides Fortnight Lily (white and volet flower) 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MCC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 71 • Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 RO Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 24 RO Rosa flower carpet white Varite Flower Carpet Rose 5 gal.		•				SHRUBS
46 C Ceanothus origination corpus oranic Fortnight Lily 5 gal. 119 D Dietes iridioides Fortnight Lily 5 gal. 51 • Heteromeles arbutifolia Toyon 5 gal. 76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 71 • Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 R0 Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 R0 Rosa flower carpet white Scarlet Flower Carpet Rose 5 gal.	36" O.C.	5 gal.	Glossy Abelia	Abelia grandifolia	A	5
119DDietes iridioidesFortnight Lily (white and violet flower)5 gal.51•Heteromeles arbutifoliaToyon5 gal.76LLigustrum japonicum 'Texanum'Waxleaf Privet5 gal.36MCMyrtus communisCommon Myrtle5 gal.31NNandina domestica 'Royal Princess'Heavenly Bamboo5 gal.24RRhamnus californica 'Eve Case'Coffeeberry 'Eve Case'5 gal.71○Punica granatum 'Nana'Dwarf Pomegranate5 gal.24RORosa flower carpet pink supremePink Supreme Flower Carpet Rose5 gal.16RORosa flower carpet whiteScarlet Flower Carpet Rose5 gal.	42" O.C.	5 gal.	Creeping Mountain Lilac	Ceanothus 'Joyce Coulter'	CJ	54
119Dietes indicides(white and violet flower)5 gal.51•Heteromeles arbutifoliaToyon5 gal.76LLigustrum japonicum 'Texanum'Waxleaf Privet5 gal.36MCMyrtus communisCommon Myrtle5 gal.31NNandina domestica 'Royal Princess'Heavenly Bamboo5 gal.24RRhamnus californica 'Eve Case'Coffeeberry 'Eve Case'5 gal.145RRhamnus californica 'Mound San Bruno'Coffeeberry 'Mound San Bruno'5 gal.71○Punica granatum 'Nana'Dwarf Pomegranate5 gal.24RORosa flower carpet pink supremePink Supreme Flower Carpet Rose5 gal.16RORosa flower carpet whiteScarlet Flower Carpet Rose5 gal.	42" O.C.	5 gal.	Yankee Point Ceanothus	Ceanothus griseus horizontalis 'Yankee Point'	O	46
76 L Ligustrum japonicum 'Texanum' Waxleaf Privet 5 gal. 36 MC Myrtus communis Common Myrtle 5 gal. 31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 145 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 O Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 RO Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	24" O.C.	5 gal.	Fortnight Lily (white and violet flower)	Dietes iridioides	D	119
10 10 11 <th< td=""><td>54" O.C.</td><td>5 gal.</td><td>Toyon</td><td>Heteromeles arbutifolia</td><td></td><td>51</td></th<>	54" O.C.	5 gal.	Toyon	Heteromeles arbutifolia		51
31 N Nandina domestica 'Royal Princess' Heavenly Bamboo 5 gal. 24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 145 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 O Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 RO Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	36" O.C.	5 gal.	Waxleaf Privet	Ligustrum japonicum 'Texanum'	L	76
24 R Rhamnus californica 'Eve Case' Coffeeberry 'Eve Case' 5 gal. 145 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 O Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 RO Rosa flower carpet pink supreme Pink Supreme Flower Carpet Rose 5 gal. 16 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	42" O.C.	5 gal.	Common Myrtle	Myrtus communis	MC	36
145 R Rhamnus californica 'Mound San Bruno' Coffeeberry 'Mound San Bruno' 5 gal. 71 O Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 Image: Comparison of the supreme Pink Supreme Flower Carpet Rose 5 gal. 16 Rosa flower carpet scarlet Scarlet Flower Carpet Rose 5 gal. 52 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	36" O.C.	5 gal.	Heavenly Bamboo	Nandina domestica 'Royal Princess'	N	31
71 O Punica granatum 'Nana' Dwarf Pomegranate 5 gal. 24 Image: Constraint of the second secon	36" O.C.	5 gal.	Coffeeberry 'Eve Case'	Rhamnus californica 'Eve Case'	R	24
24 Image: Constraint of the constraint	36" O.C.	5 gal.	Coffeeberry 'Mound San Bruno'	Rhamnus californica 'Mound San Bruno'	R	145
16 RO Rosa flower carpet scarlet Scarlet Flower Carpet Rose 5 gal. 52 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	24" O.C.	5 gal.	Dwarf Pomegranate	Punica granatum 'Nana'	\bigcirc	71
52 RO Rosa flower carpet white White Flower Carpet Rose 5 gal.	36" O.C.	5 gal.	Pink Supreme Flower Carpet Rose	Rosa flower carpet pink supreme	RO	24
	36" O.C.	5 gal.	Scarlet Flower Carpet Rose	Rosa flower carpet scarlet	RO	16
	36" O.C.	5 gal.	White Flower Carpet Rose	Rosa flower carpet white	RO	52
ID Tylosma congestum Shiny Xylosma 5 gal.	36" O.C.	5 gal.	Shiny Xylosma	Xylosma congestum	(+)	15
VINES						VINES
16 Solanum jasminoides Potato Vine 5 gal.	As Shown	5 gal.	Potato Vine	Solanum jasminoides		16

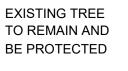
PLANTING NOTES

- OR APPROVED EQUAL.

- ATTENTION.
- FOR ROOT ZONE DEFINITION.

- OR EXISTING TREE. DIRECTION.
- PLANTING.

- WALK THROUGH AND PROJECT ACCEPTANCE.



PROPOSED TREE +

PROVIDE 3" LAYER OF MULCH FOR ALL NEW PLANT BEDS, MAINTAIN 4" OF CLEARANCE AROUND ALL CROWNS, STEMS AND TRUNKS OF PLANT MATERIAL TO MINIMIZE POTENTIAL DISEASES. 2. MULCH TO BE FIR MULCH BY LYNGSO GARDEN MATERIALS, ph: (650) 364-1730 OR PSSI (ph: 650-321-4236) IF AVAILABLE,

3. TEST EXISTING SOILS, AMEND SOIL IN ALL PLANTING AREAS ACCORDING TO SOILS REPORT RECOMMENDATIONS. 4. INCORPORATE COMPOST AT A RATE OF AT LEAST FOUR CUBIC YARDS PER 1,000 SQUARE FEET TO A DEPTH OF SIX INCHES INTO LANDSCAPE AREA (UNLESS CONTRA-INDICATED BY A SOIL TEST). REFER TO STANFORD FDG SPECIFICATIONS. 5. ALL PLANTING AREAS FOR GROUNDCOVER SHALL BE SCARIFIED A MIN. DEPTH OF 10" AND IN TWO DIRECTIONS, PRIOR TO TILLING. SCARIFICATION SHALL NOT OCCUR WITHIN ROOT ZONE OF EXISTING TREES (ROOT ZONE IS AREA FROM THE TRUNK OUT TO 10' BEYOND TREE'S DRIPLINE). ALL EXCEPTIONS MUST BE APPROVED BY STANFORD ARBORIST. 6. IRRIGATION TO BE DESIGN BUILD USING UNIVERSITY SPECIFICATIONS AND PROCEDURES. TREES SHOULD BE ON SEPARATE

VALVES FROM SHRUBS, MINIMUM TWO BUBBLERS PER TREE. CONTRACTOR TO SUBMIT IRRIGATION DRAWINGS AND PARTS LISTS FOR REVIEW AND APPROVAL BY STANFORD GROUNDS PRIOR TO INSTALLATION. PRIOR TO BEGINNING LANDSCAPE INSTALLATION, A PRELIMINARY SITE WALK SHOULD BE DONE WITH PROJECT MANAGER, LANDSCAPE CONTRACTOR, AND PLANNING OFFICE LANDSCAPE ARCHITECT TO IDENTIFY ANY SITE CONDITIONS NEEDING

PROTECT EXISTING TREES FROM INJURY AND COMPACTION. HAND DIG WITHIN ROOT ZONE AND DO NOT CUT ROOTS OVER 2" DIAMETER. IF ANY ROOTS 2" DIAMETER OR LARGER ARE ENCOUNTERED DURING EXCAVATION NEAR ANY TREE, PLEASE CONTACT A STANFORD UNIVERSITY ARBORIST. REFER TO STANFORD UNIVERSITY FDG SPECIFICATIONS 01, SECTION 01 56 39

9. FDG SPECIFICATIONS GUIDELINES DIVISION 01, SECTION 01 56 39 TREE AND SHRUB PROTECTION GUIDELINES ARE TO BE FOLLOWED. BEFORE CONSTRUCTION MOBILIZATION ON SITE BEGINS, PROVIDE CHAIN LINK FENCING AS INDICATED IN FDG SPECIFICATIONS GUIDELINES. ALL TREE PROTECTION MEASURES SHALL BE SUBJECT TO APPROVAL AND SUPERVISION BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.

10. STANFORD FDG PLANTING SPECIFICATIONS GUIDELINES AND STANFORD STANDARD PLANTING DETAILS ARE TO BE FOLLOWED. **REFER TO SPECIFICATIONS DIVISION 32, SECTION 32 90 00.** 11. VERIFY LOCATIONS OF UTILITIES BY CALLING USA BEFORE DIGGING.

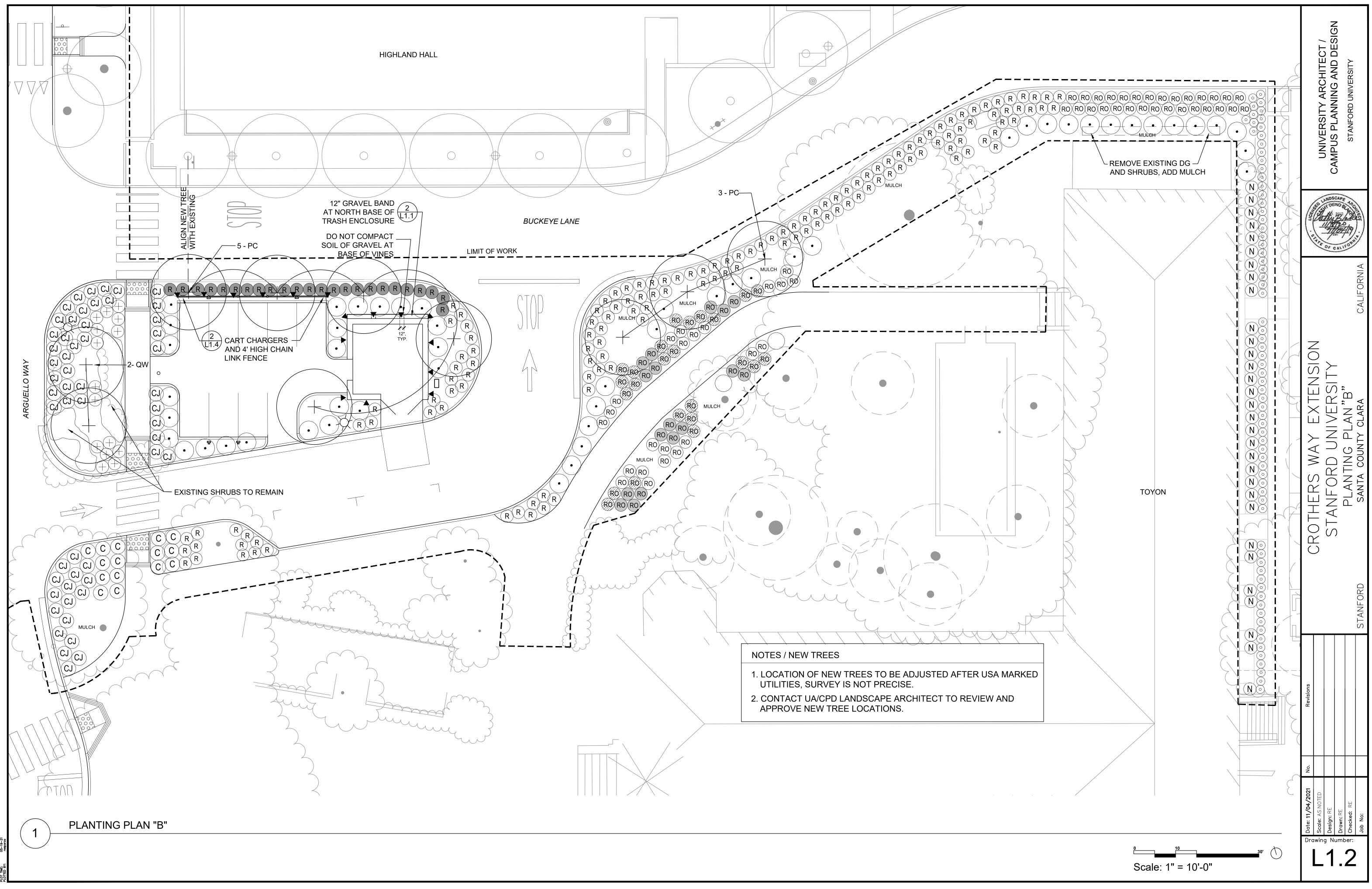
12. REESTABLISH PROPER FINISHED GRADE PRIOR TO PLACING NEW PLANTS AND POST CONSTRUCTION. 13. PROVIDE MATCHING SPECIES AND FORMS FOR ALL HEDGE PLANTINGS. SPACE EQUALLY. DO NOT PLANT WITHIN 2' OF NEW

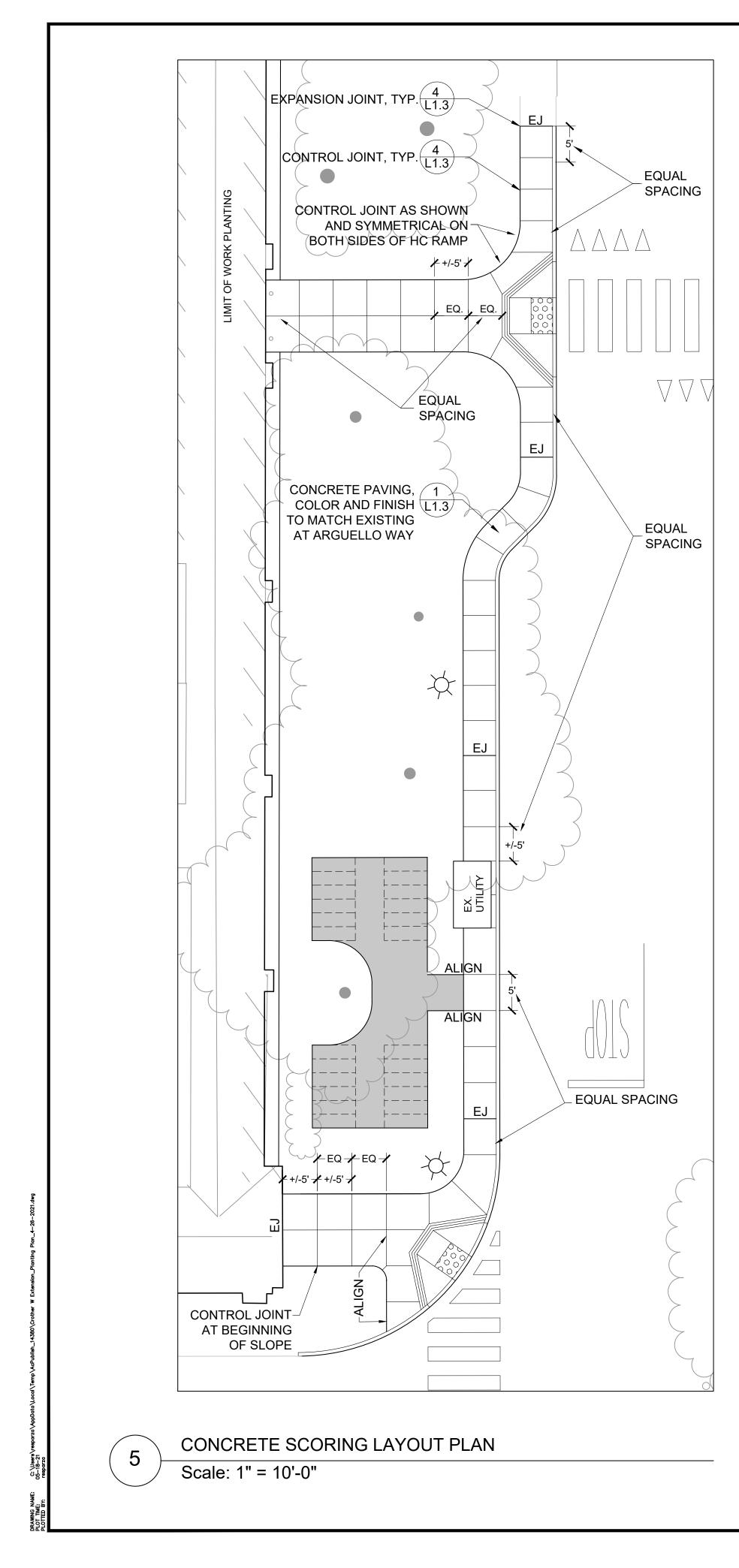
14. CONTACT ARCHITECT/CAMPUS PLANNING OFFICE IF PROBLEMS OCCUR WITH PLANT ORDERS OR FOR CONSTRUCTION

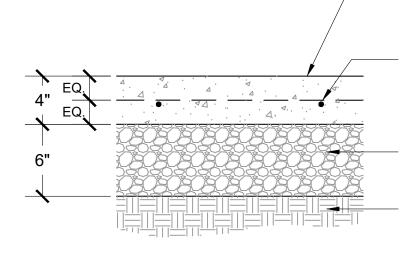
15. CONTACT ARCHITEC/CAMPUS PLANNING OFFICE TO APPROVE ALL PLANT MATERIALS FOR VIGOR AND SPECIES BEFORE

16. CONTACT ARCHITECT/CAMPUS PLANNING OFFICE FOR REVIEW AND APPROVAL OF PLANT PLACEMENT PRIOR TO INSTALLATION. 17. IRRIGATION SYSTEM AS-BUILT PLAN, INCLUDING CONTROLLER, VALVES, LINES, AND HEADS, FOR ALL NEW PLANTINGS TO BE SUPPLIED TO STANFORD UPON PROJECT COMPLETION PER STANFORD'S STANDARD REQUIREMENTS. 18. COORDINATE TRIMMING OF EXISTING TREES AND SHRUBS WITH STANFORD ARBORIST AND STANFORD LANDSCAPE ARCHITECT. 19. AS PART OF FINAL COMPLETION, ALL AREAS IMPACTED BY LANDSCAPE CONSTRUCTION TO BE RESTORED TO ORIGINAL CONDITION, INCLUDING SOILS, PLANTS, IRRIGATIONS, PAVING, AND OTHERS. 20. PROVIDE 90 DAY PLANTING/IRRIGATION MAINTENANCE AND OVER ONE YEAR PLANT/TREE WARRANTY, TO BEGIN AFTER FINAL

/ SIGN UNIVERSITY ARCHITECT CAMPUS PLANNING AND DE \bigcirc RKIN(ERSITY BIKE PARKIN WAY E) D UNIVE AND 2 \triangleleft Ϋ́Ζ CROTHERS STANFO -ANTING PLA Ω







CONCRETE PAVING

Scale: 1-1/2" = 1'-0"

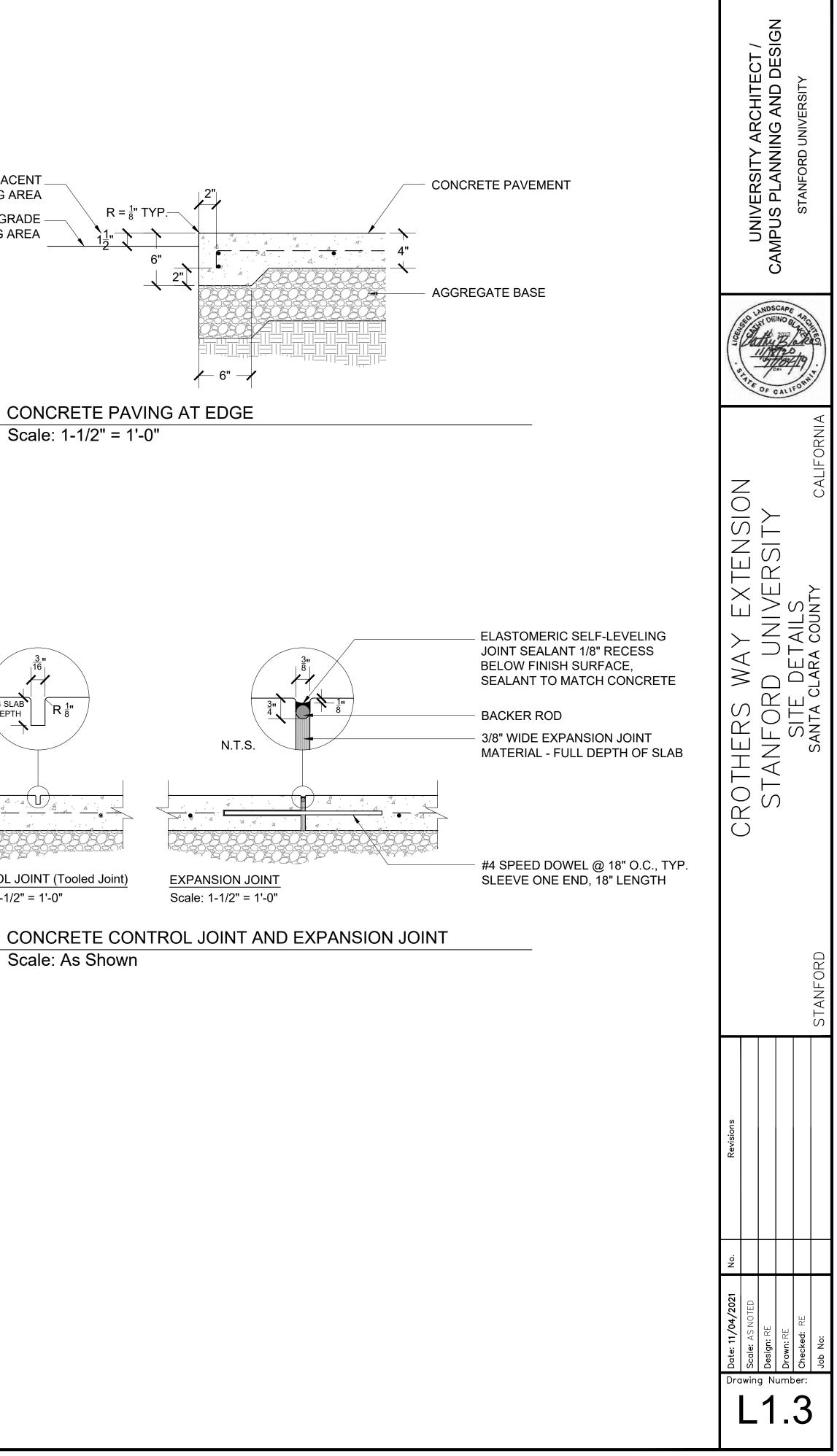
CONCRETE - COLOR AND FINISH TO MATCH EXISTING CONCRETE PAVEMENT AT ARGUELLO WAY - #4 REBARS @ 18" MAX. O.C. BOTH WAYS

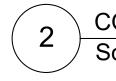
CLASS II AGGREGATE BASE COMPACTED TO 95% DENSITY

SUBGRADE - SCARIFY 6" AND RECOMPACT TO 95% DENSITY

ELASTOMERIC SELF-LEVELING

WHEN ADJACENT _ TO PLANTING AREA FINISH GRADE PLANTING AREA

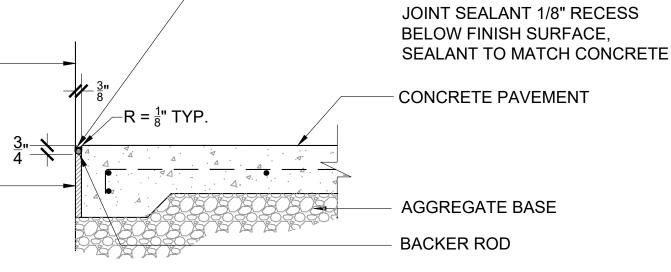




Scale: 1-1/2" = 1'-0"



3/8" WIDE EXPANSION JOINT MATERIAL, FULL DEPTH OF SLAB



// 1/4 SLAB DEPTH $R\frac{1}{8}$ \neg N.T.S.

CONTROL JOINT (Tooled Joint) Scale: 1-1/2" = 1'-0"



Scale: As Shown



CONCRETE PAVING AT BUILDING STEPS OR CURB Scale: 1-1/2" = 1'-0"

