

COUNTY OF SANTA CLARA  
General Construction  
Specifications

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY EARTH SYSTEMS PACIFIC AND DATED APRIL 7, 2015. 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 WORKS 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 NECESSARY 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 ALL TREES TO BE PROVIDED AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
- ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
- UPON DISCOVERING OR UNCOVERING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION 16-18).
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE STRUCTURE 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 FOR CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEANING AND GRUBBING)

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

UTILITY LOCATION, TRENCHING & BACKFILL

- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE, UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY. GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

RETAINING WALLS

- REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL 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.

GRADING

- 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, IT 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 IS CONTACTED TO THE 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.
- NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	0	743	2.0'
PONDING BASIN	90	0	3.0'
POOL/HARDSCAPE	0	132	0.5'
LANDSCAPE	0	0	0.5'
DRIVEWAY	3	7	0.75'
OFF SITE MOVEMENTS	30	5	0.75'
TOTAL	123	887	0.5"-3.0'

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE HULDED TO A COUNTY APPROVED DUMP SITE.
- NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK WITH THE COUNTY INSPECTOR.
  - ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
  - THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
  - ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
  - THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED AND CONDITIONED AND CONTRACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BY THE COUNTY ENGINEER PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
  - THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.
  - GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
  - TOTAL DISTURBED AREA FOR THE PROJECT 32,254 SF.
  - WFO NO.(N/A).
  - THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

- FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFERING 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 DRIFLINE 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 PLACE AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
- SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

ACCESS ROADS AND DRIVEWAYS

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

STREET LIGHTING

- PACIFIC GAS & ELECTRIC 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.

PORTLAND CEMENT CONCRETE

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

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
- ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT RESEMBLING THE ENTRANCE TO CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
  - 15 MILES PER HOUR (MPH) SPEED LIMIT
  - 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
  - TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION CONTROL DIVISION IS 925-833-3333.

SURVEY MONUMENT PRESERVATION

- THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
- THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED, DAMAGED, COVERED, OBLITERATED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
  - PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
  - PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
  - PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLIOT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE AND SITUATIONALLY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

STORM DRAINAGE AND STORMWATER MANAGEMENT

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

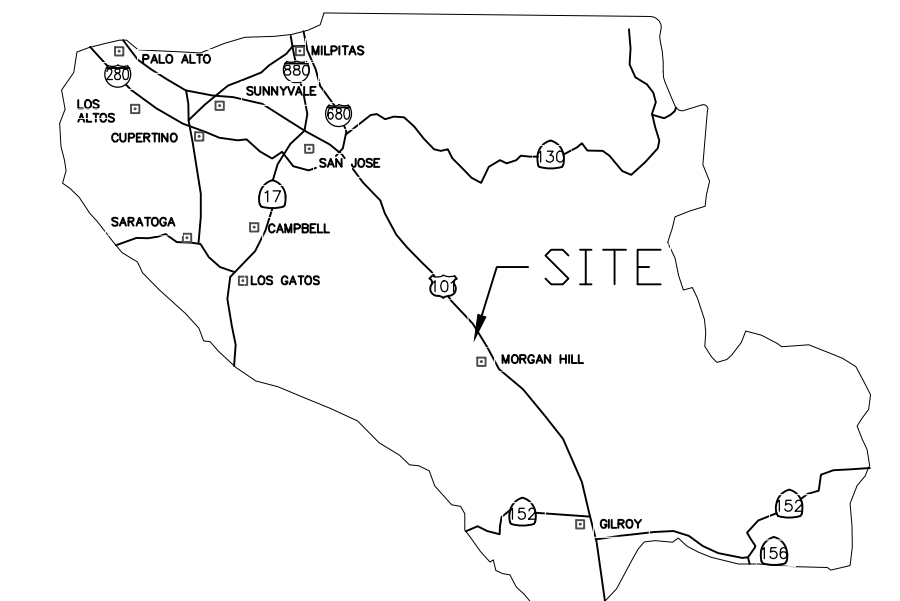
DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

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

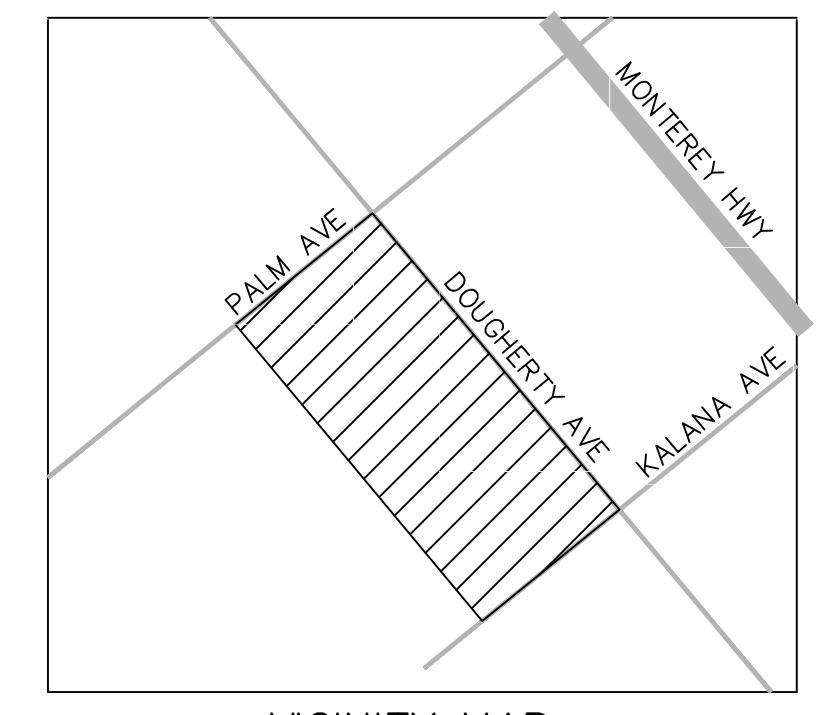
GEOTECHNICAL ENGINEER OBSERVATION

- A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER 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.

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
CHRISTOPHER L. FREITAS, RCE  
42107 R.C.E. NO. \_\_\_\_\_ 3/31/24 EXPIRATION DATE



COUNTY LOCATION MAP

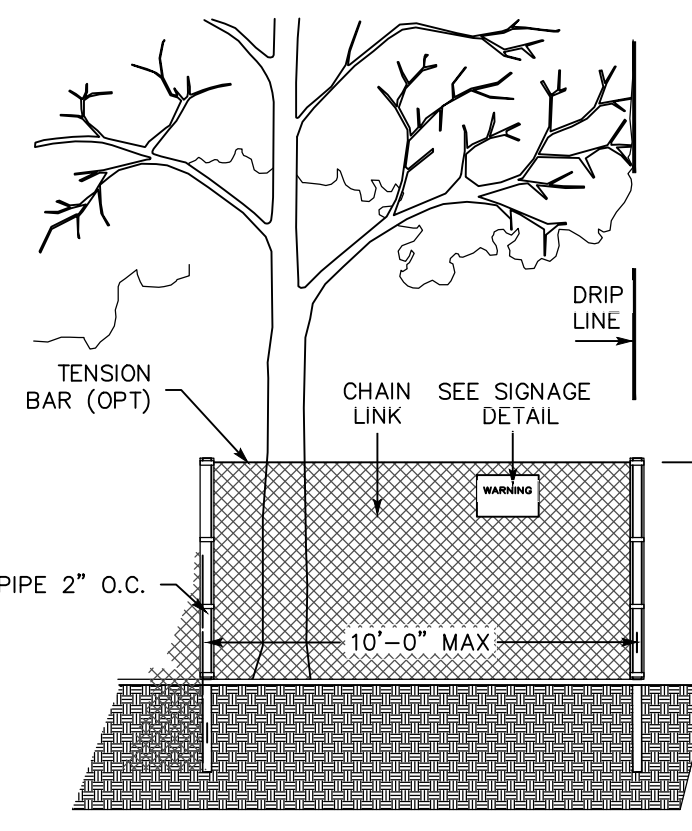


VICINITY MAP

NEW RESIDENCE FOR:  
GURDEEP DHADWAL

SCOPE OF WORK

- THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLIOT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
- CONSTRUCTION OF 15' DRIVEWAY.
- CONSTRUCTION OF ONSITE PONDING BASIN.
- CONSTRUCTION OF OFFSITE IMPROVEMENT ALONG PALM AVENUE.



EXISTING TREE PROTECTION DETAILS

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

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

ENGINEER'S CERTIFICATION:  
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.  
*Peter Pao Moua* 2/2/23  
PETER PAO MOUA, P.E. DATE  
LIC. NO. C61918

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

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

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED JULY 18, 2015 FILE(S) NO. 9470-60-45-14B.

DATE: 2/2/23 *Peter Pao Moua* SIGNATURE  
*Peter Pao Moua* REGISTERED PROFESSIONAL ENGINEER  
No. C61918 CIVIL  
STATE OF CALIFORNIA

COUNTY ENGINEER'S NOTE

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

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
CHRISTOPHER L. FREITAS, RCE  
42107 R.C.E. NO. \_\_\_\_\_ 3/31/24 EXPIRATION DATE

SHEET INDEX

NO.	DESCRIPTION
1	COVER SHEET
2	GRADING PLAN
3	GRADING PLAN
4	OFFSITE STREET IMPROVEMENT
5	EROSION CONTROL PLAN
6	DETAILS
7	DETAILS
8	DETAILS
9	STANDARD TRAFFIC CONTROL PLANS
10	STANDARD TRAFFIC CONTROL PLANS

ENGINEER'S NAME: PETER P. MOUA, PE/LS  
CENTRAL VALLEY ENGINEERING AND SURVEYING  
2132 HIGH STREET  
SELMA, CA 93662  
PHONE NO.(559) 891-8811  
Revision 1 3/21/18 APN 712-27-012 Sheet 1 of 10  
Revision 2 5/24/18 Co. File  
Revision 3 7/26/18



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**KEYNOTES**

- 1. VERIFY STRUCTURAL SECTION WITH STRUCTURAL ENGINEER & ARCHITECT PRIOR TO CONSTRUCTION. Slope Garage Slab per Architectural Plans.
- 2. INSTALL RIPRAP ALONG SWALE.

GRADING IS FOR THE PURPOSE OF CONSTRUCTION OF PRIMARY AND SECONDARY RESIDENCE.

NOTE: SEE SHEET A1.1 FOR WATER, SEPTIC AND GAS. NO UTILITY CONNECTION FROM COUNTY RIGHT-OF-WAY.

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



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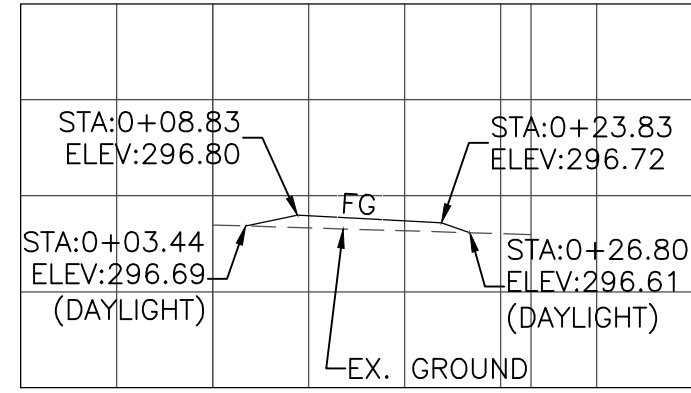
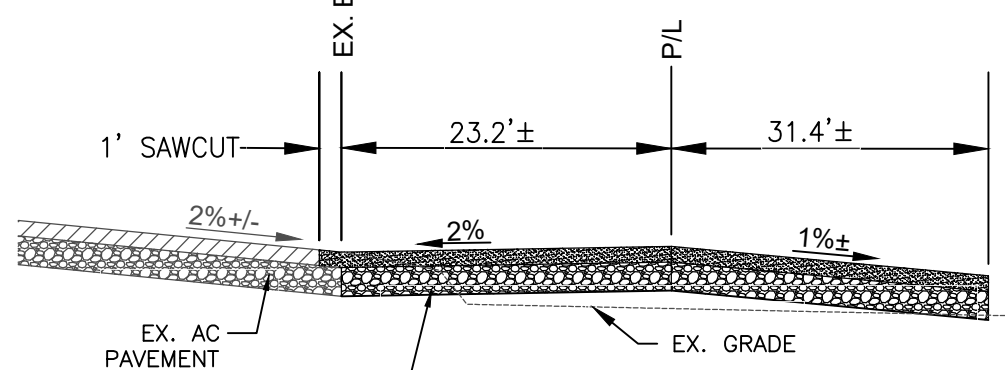
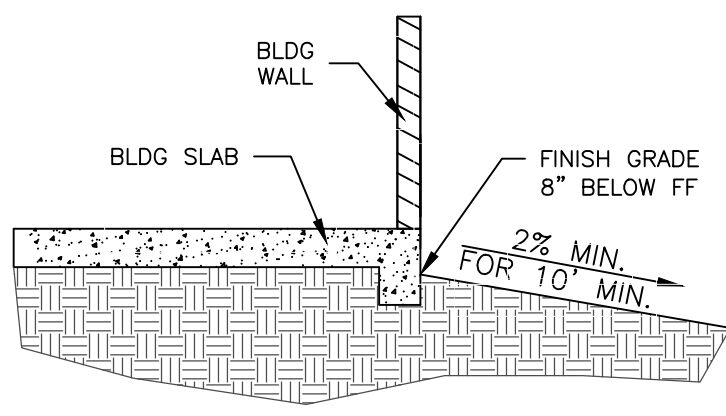
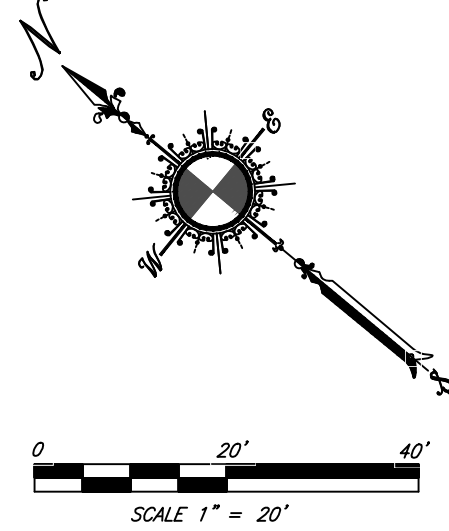
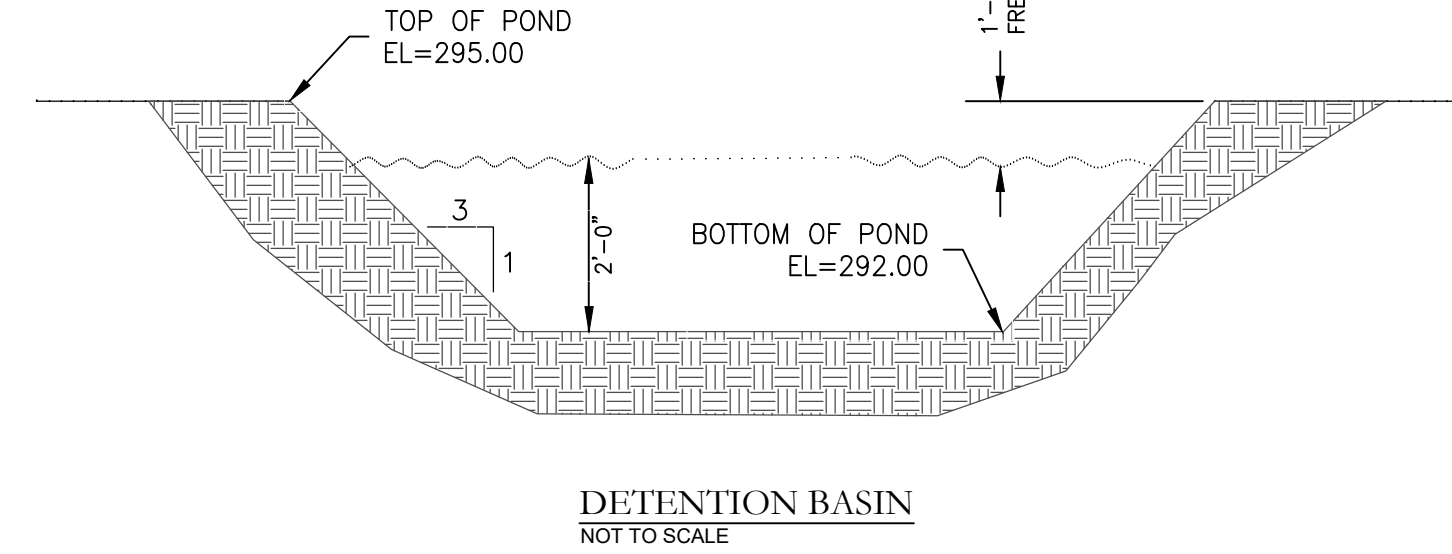
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**CENTRAL VALLEY**  
ENGINEERING & SURVEYING, INC.  
2132 HIGH STREET Tel. (559) 891-8811  
SELMA, CA 93662 Fax (559) 891-8815  
WWW.CVEAS.COM Email: info@cveas.com

**ABBREVIATIONS / LEGEND**

AC	ASPHALTIC CONCRETE	FL	FLOW LINE	SDCO	STORM DRAIN CLEANOUT
C	CONCRETE	FNC	FENCE	SDI	STORM DRAIN INLET
CATV	CABLE TELEVISION LINE	FS	FIRE SPRINKLER	SDMH	STORM DRAIN MANHOLE
CC	CONCRETE CURB	GR	GUTTER/GUTTER LIP	SSCO	SEWER SANITARY CLEANOUT
CL	CENTER LINE	GRD	GROUND	TC	TOP OF CURB
CLF	CHAIN LINK FENCE	GUY	GUY WIRE	TF	TOP OF FOOTING
D	DIRT/GROUND SURFACE	IE	INVERT ELEVATION	TTC	TOP FACE OF CURB
DI	DRAIN INLET	IRR	IRRIGATION	TP	TELEPHONE POLE
EC	END OF CURVE	MB	MAIL BOX	TW	TOP OF WALL
EG	EXISTING GROUND	MIR	METER	UE	UNDERGROUND ELECTRICAL
EP	EDGE OF PAVEMENT	O/H	OVERHEAD ELECTRICAL LINE	W	WATER
ETW	EDGE OF TRAVEL WAY	P	PAVEMENT		
EX	EXISTING	PP	POWER POLE		
FD	FOUND	P/L	PROPERTY LINE		
FF	FINISH FLOOR	RB	REBAR		
FG	FINISH GRADE	R/W	RIGHT OF WAY		

- GRAVEL
- ASPHALT CONCRETE (AC)
- CONCRETE (CONC)
- SPOT ELEVATION & DESCRIPTION

- GENERAL RIGHT-OF-WAY NOTES:**
- SAWCUT AND REPAVE A MINIMUM OF 1-FT OF PLAM AVENUE ALONG DRIVEWAY AND PROPERTY FRONTAGE.
  - RESTRIPE FOG LINE IN SAWCUT AREA IN KIND WITH 4-INCH WHITE REFLECTIVE PAVEMENT MARKINGS AND AS REQUESTED BY COUNTY INSPECTOR AND/OR ENGINEER.
  - ALL SAWCUT SPOILS SHALL BE VACUUMED.
  - OFF HAUL ALL CONSTRUCTION SPOILS AND DEBRIS TO AN APPROPRIATE DUMP FACILITY.
  - INSTALL AND MAINTAIN PROPER BMPs THROUGHOUT THE DURATION OF CONSTRUCTION.
  - INSTALL AND MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD.



**CUT/FILL**  
CUT = 123 CUBIC YARDS  
FILL = 144 CUBIC YARDS  
NET FILL = 21 CUBIC YARDS  
DISTURBED AREA = 32,254 SF

**ENGINEER'S CERTIFICATION:**  
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.  
*Peter Pao Moua*  
PETER PAO MOUA, P.E.  
LIC. NO. C61918  
DATE 2/2/2023

PROJECT: NEW RESIDENCE FOR: GURDEEP DHADWAL, PALM AVE AND DOUGHERTY AVE, MORGAN HILL, CA 95037, APN: 712-27-012



Revisions:	Date:

**GRADING PLAN**

CVEAS Job #:	16067
Current Release Date:	xxxx
Drawn By:	PM
Planning Submittal Date:	xxxx
P.C. Submittal Date:	
Checked By:	RL
Scale:	AS NOTED

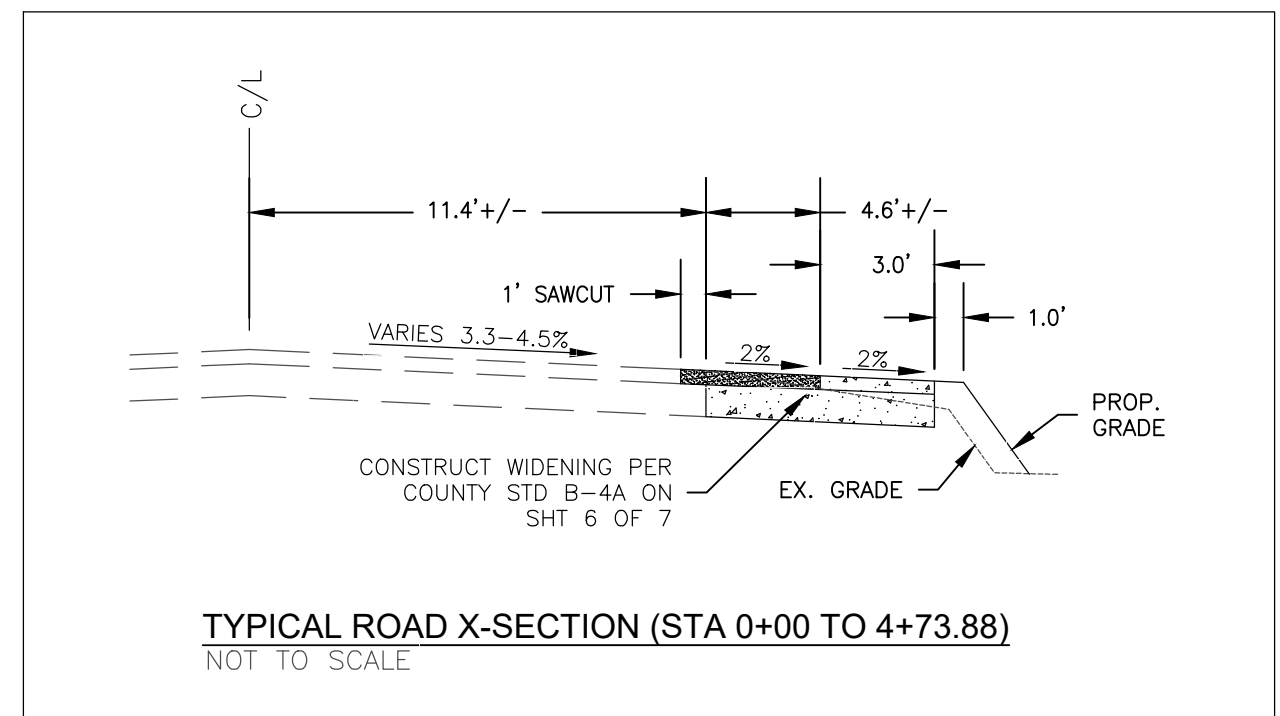
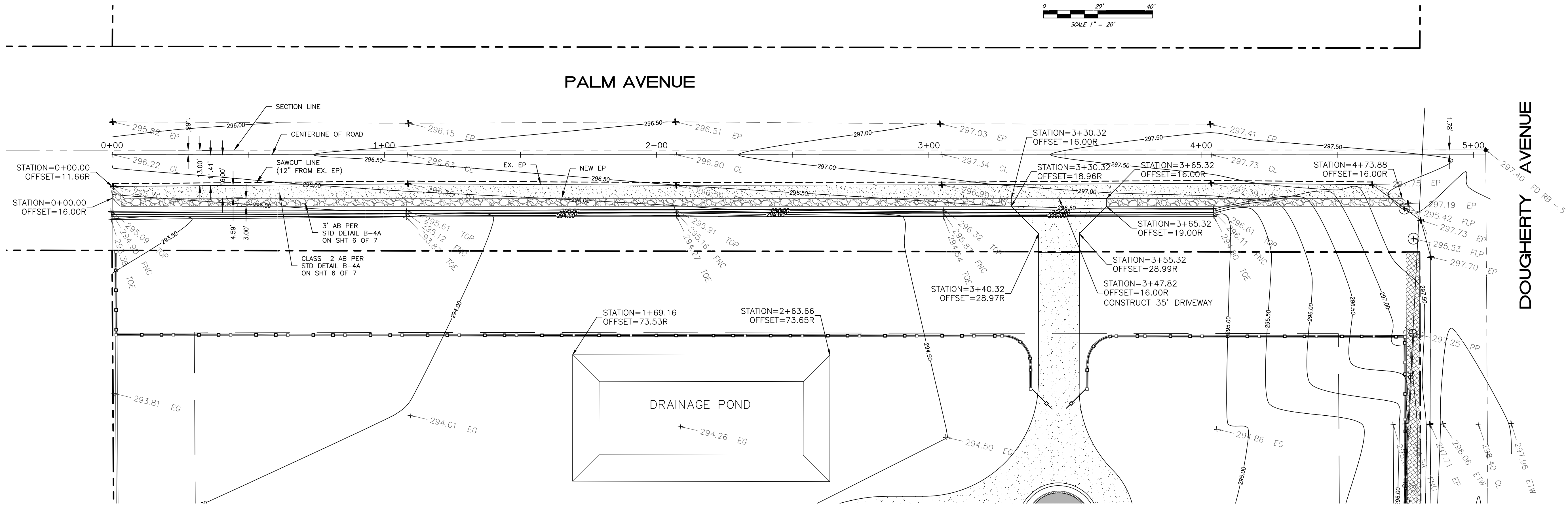
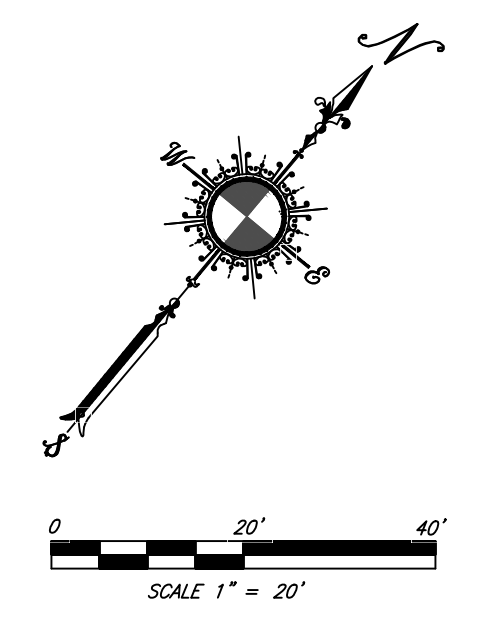
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PROJECT  
NEW RESIDENCE FOR:  
GURDEEP DHADWAL  
PALM AVE AND DOUGHERTY AVE  
MORGAN HILL, CA 95037  
APN: 712-27-012



Revisions:	Date:
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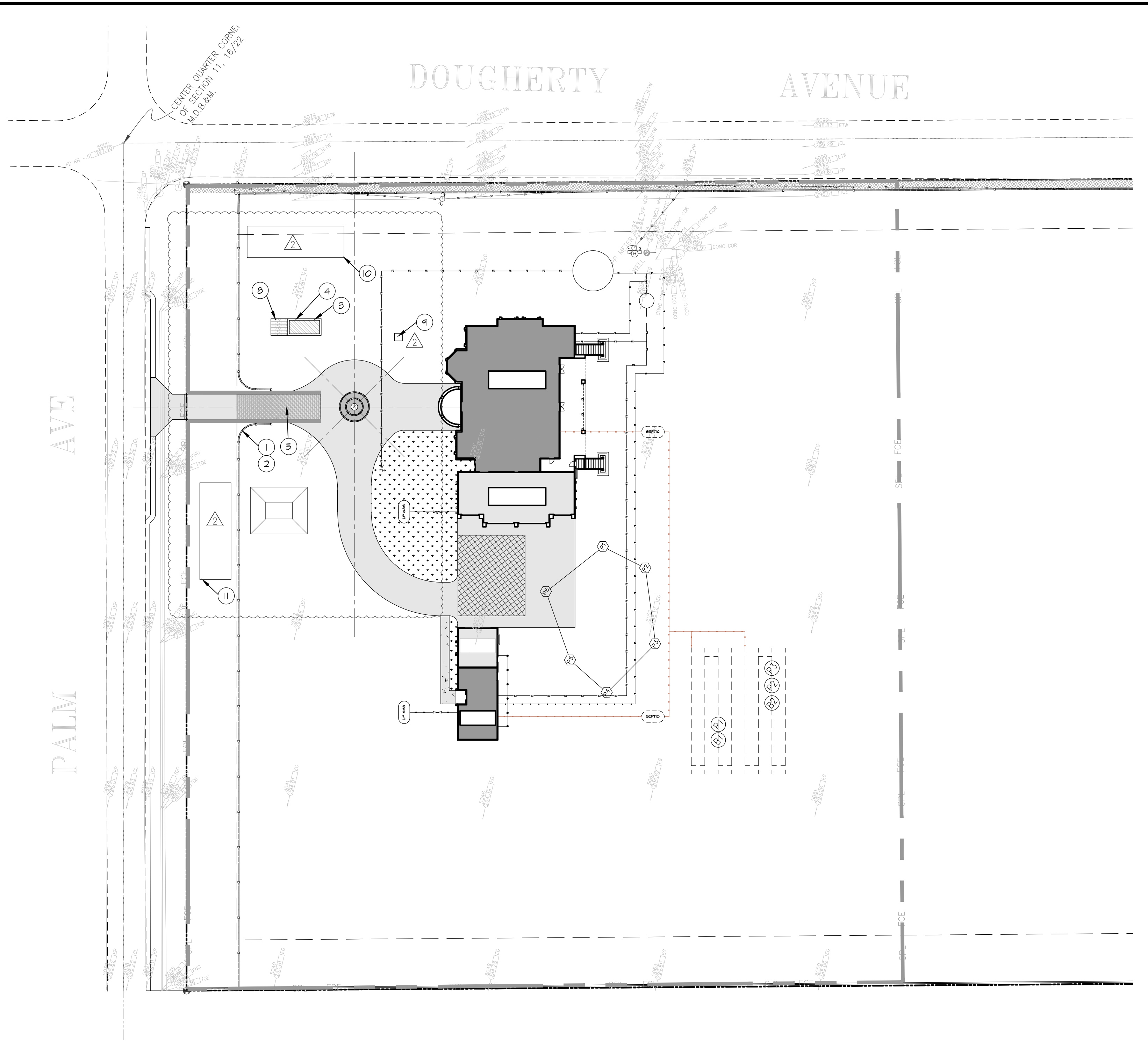
**HALF STREET IMPROVEMENT**

CVEAS Job #:	16067
Current Release Date:	xxxx
Drawn By:	PM
Planning Submittal Date:	xxxx
P.C. Submittal Date:	
Checked By:	RL
Scale:	AS NOTED

ENGINEER'S CERTIFICATION:  
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.  
*Peter Pao Moua*  
PETER PAO MOUA, P.E.  
LIC. NO. C61918  
2/2/2023  
DATE

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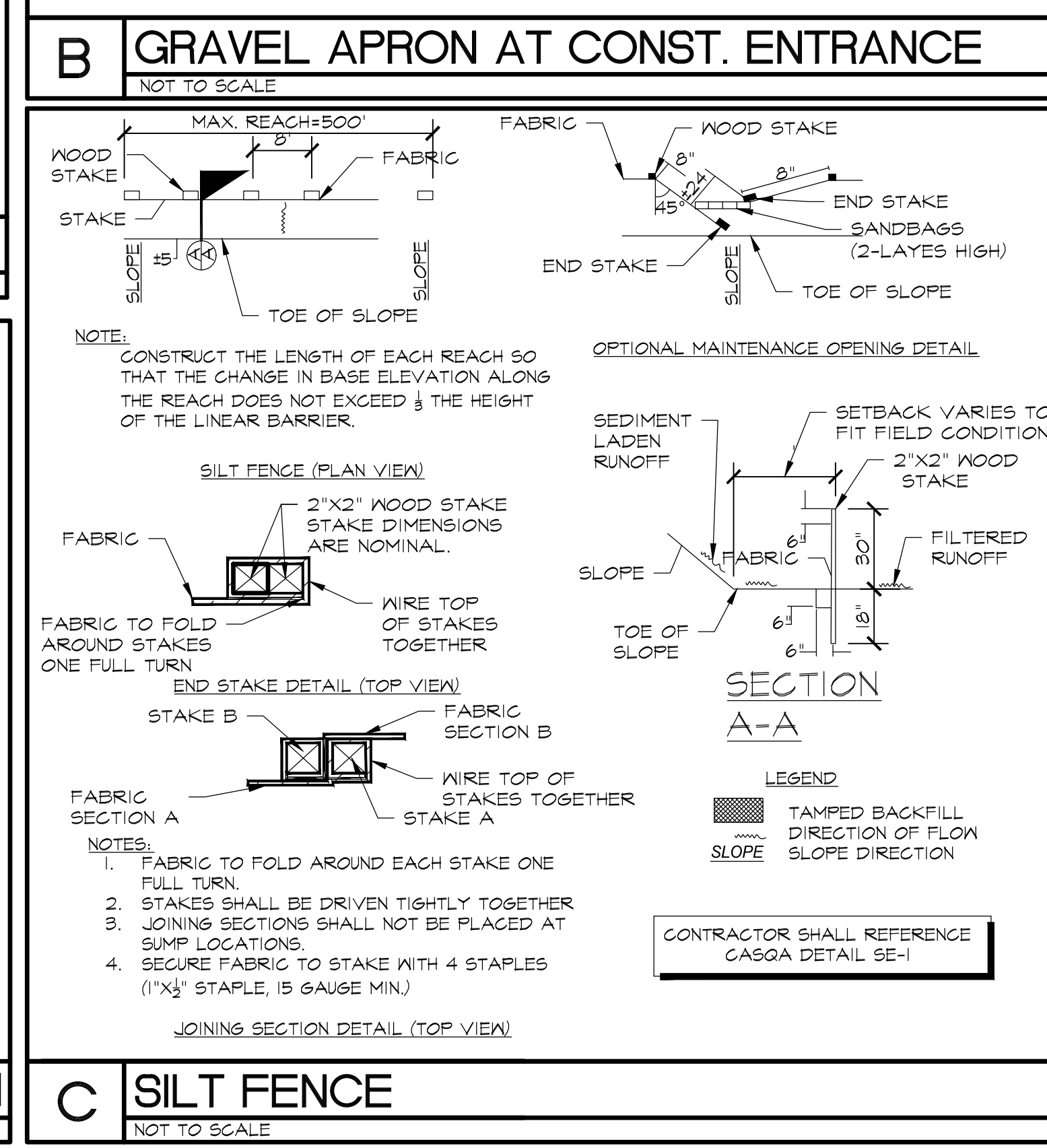
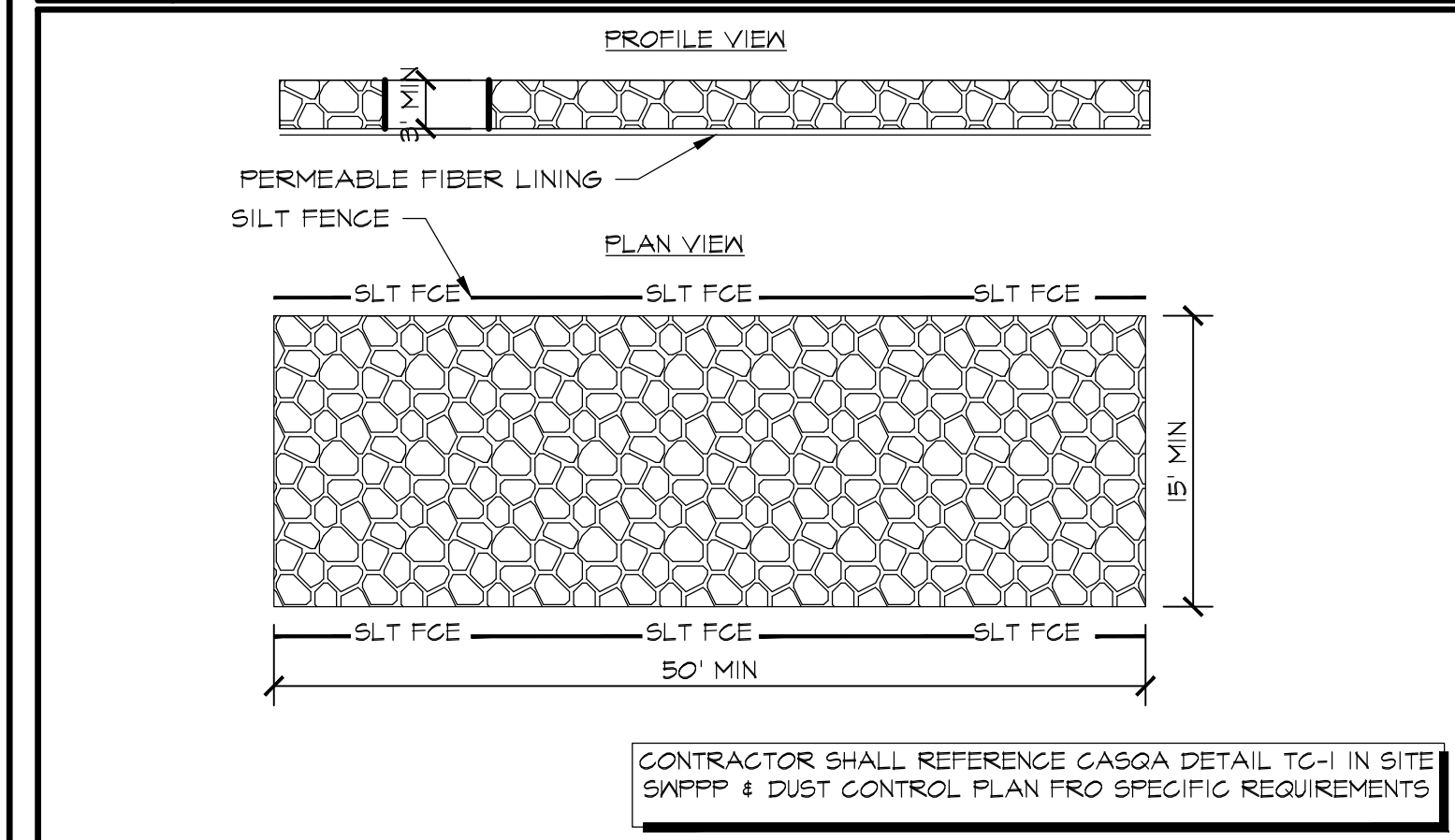
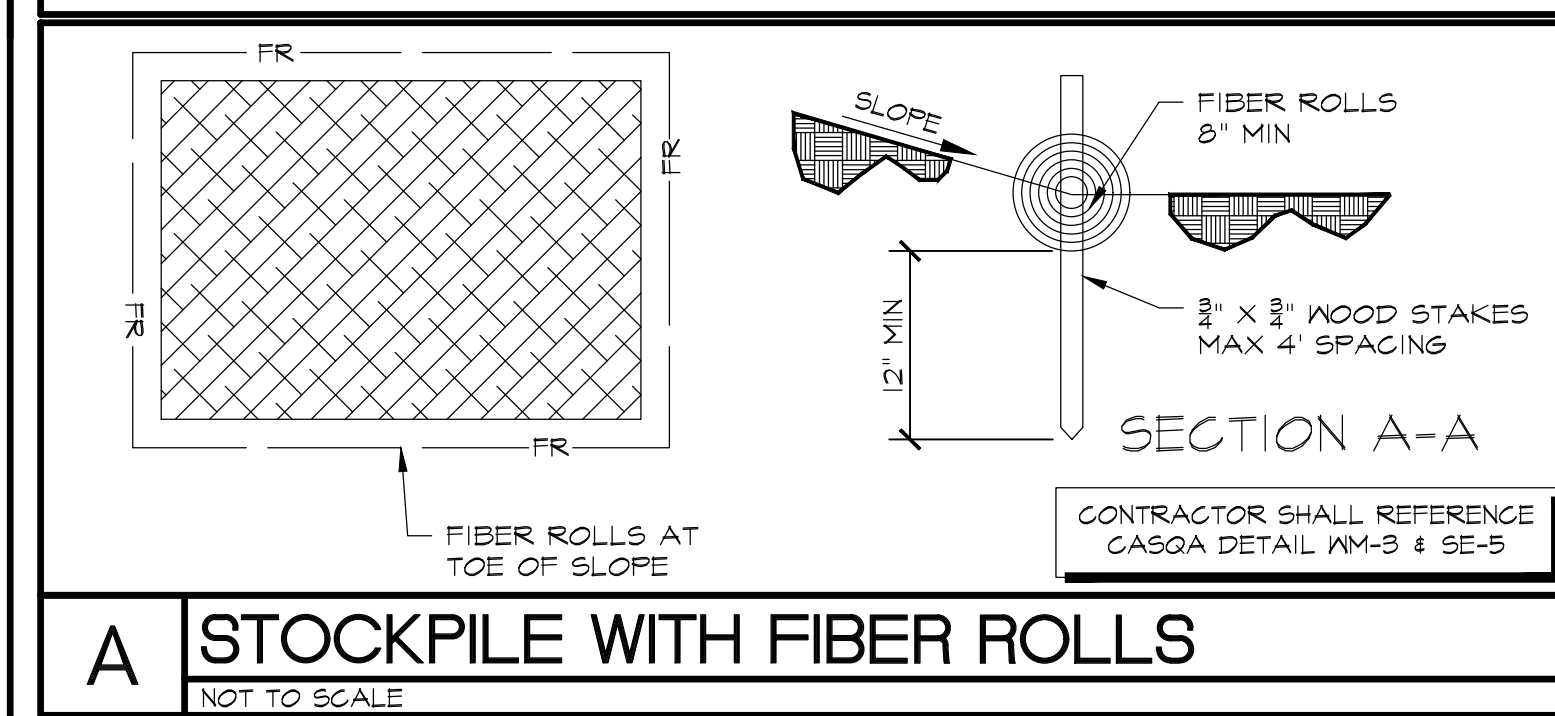
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**1 EROSION CONTROL PLAN**  
SCALE: 1"=40'

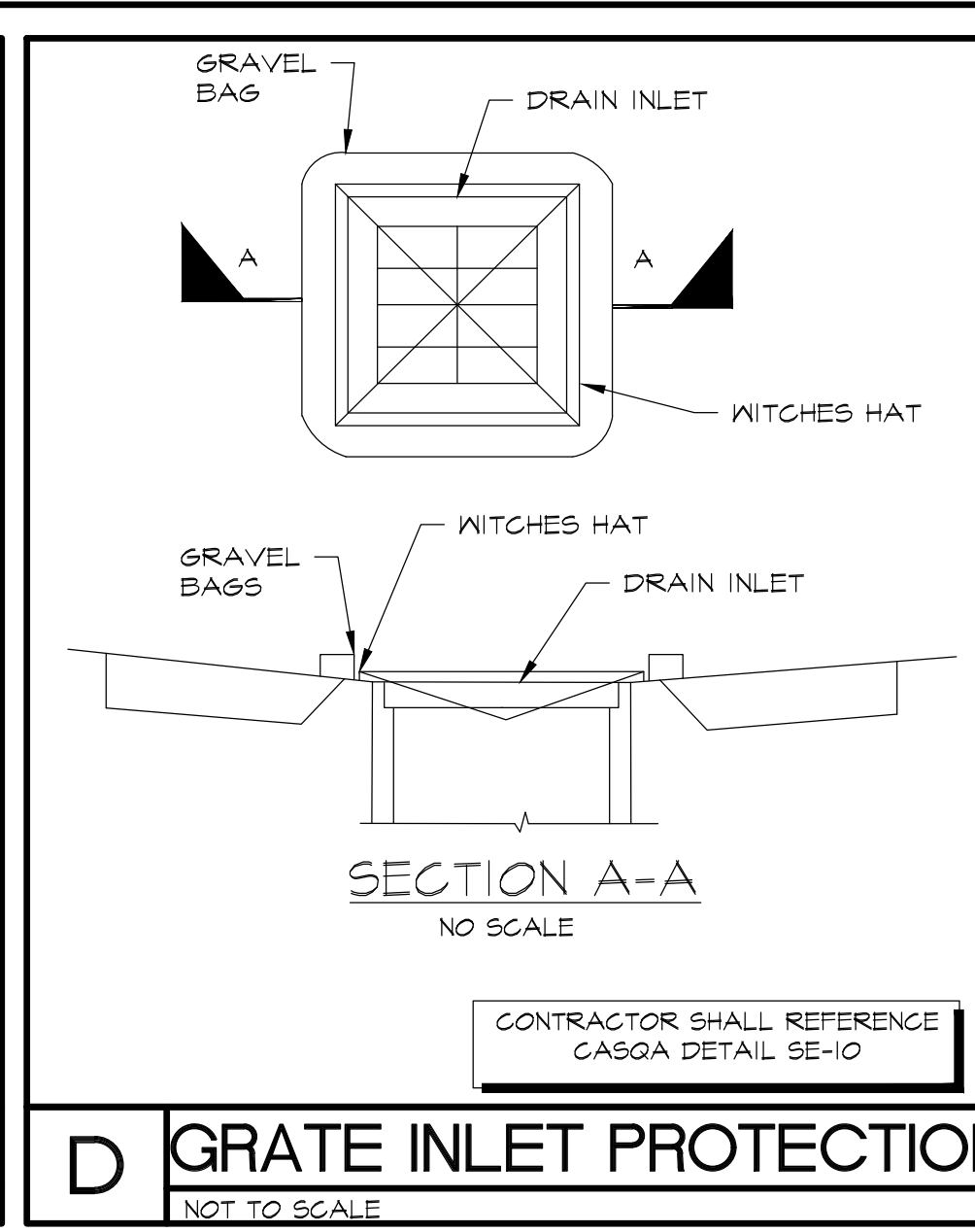
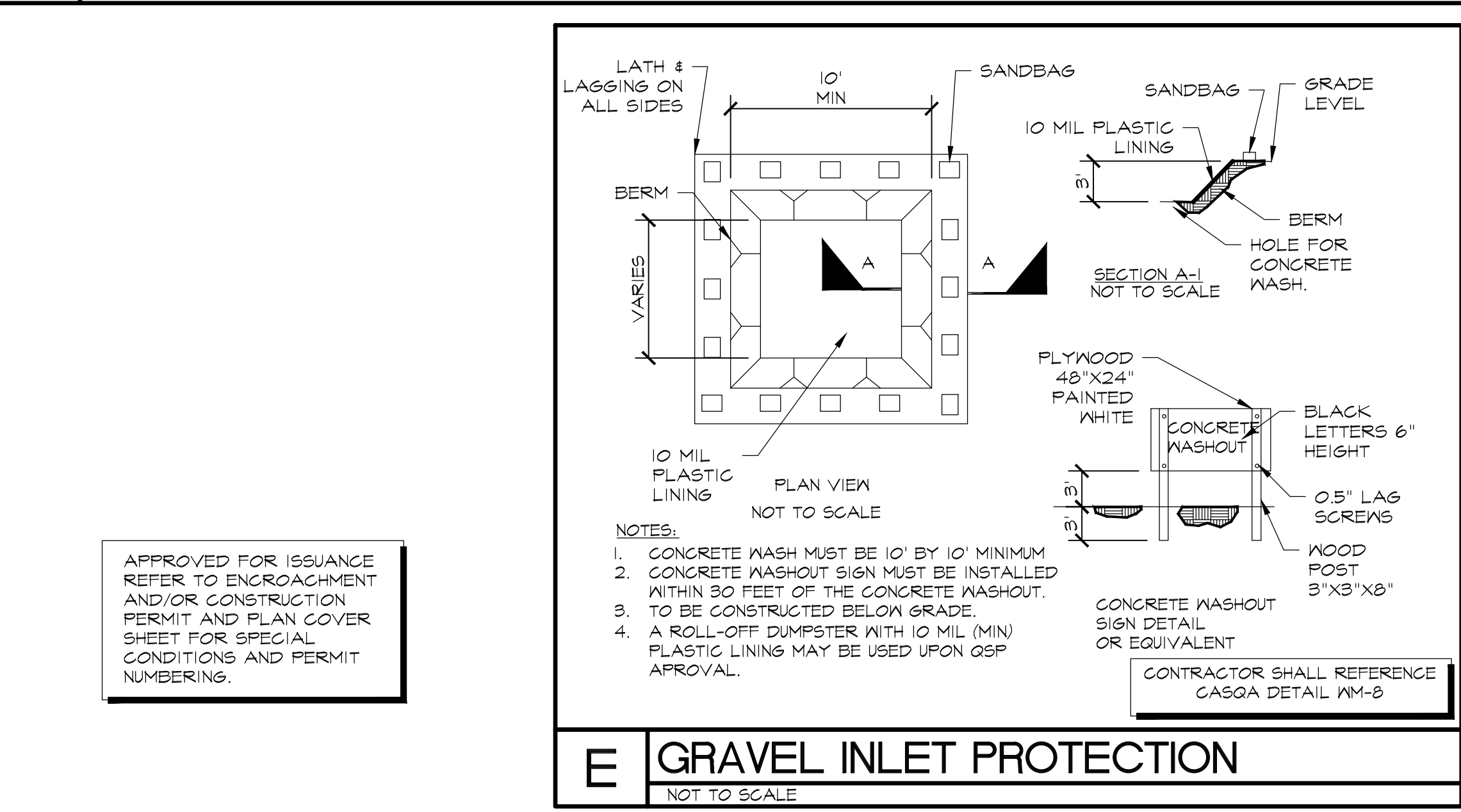
### LEGEND

- MATERIALS LAY-DOWN AND STOCKPILE AREA & EQUIPMENT PARKING WITH PROTECTIVE OIL PANS UNDER EQUIPMENT. (SEE DETAIL A)
- GRATE INLET (SEE DETAIL D)
- 50' LONG GRAVEL PAD AT CONSTRUCTION ENTRANCE (SEE DETAIL B)
- CONSTRUCT CONCRETE WASHOUT (PER DETAIL E)
- GRIZZLY/RUMBLE PLATE
- SILT FENCE (DETAIL C)
- SITE BOUNDARY
- PHASE BOUNDARY
- FIBER ROLLS (DETAIL A)
- PROPOSED STORM DRAIN LINE
- FINISHED GROUND CONTOUR
- EXISTING GROUND CONTOUR



- ### STORMWATER POLLUTION PREVENTION NOTES:
1. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE QUALIFIED SWPPP DEVELOPER (QSD) OR THE QUALIFIED SWPPP PRACTITIONER (QSP).
  2. GRADED AREAS ADJACENT TO HILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE COMPLETION OF EACH WORKING DAY OR EROSION CONTROL BMP'S MUST BE IN PLACE. (EC-1)
  3. THE USE OF A GRAVEL BLANKET AT CONSTRUCTION ENTRANCES WITH PUBLIC ROADS IS REQUIRED AT ALL TIMES DURING CONSTRUCTION. (TC-1)
  4. THE CONTRACTOR SHALL RESTRICT TRAFFIC AND POST 15 MPH SPEED LIMITS ON THE SITE TO REDUCE DUST. (NE-1)
  5. CONTRACTOR SHALL WATER THE SITE AS NEEDED TO ELIMINATE DUST. (MINIMUM OF 650 GALLONS/AC. AND ONCE DAILY, (NE-1)
  6. CONSTRUCTION EQUIPMENT SHALL BE PARKED, WHEN NOT IN USE AND FOR MAINTENANCE, IN DESIGNATED AREA (NS-2,10).
  7. SILT FENCING, STRAW BALES AND SANDBAGS WILL BE INSTALLED AS DIRECTED BY THE QSD/QSP, AS NEEDED.
  8. EXCEPT AS OTHERWISE APPROVED BY THE QSD/QSP ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY OR ON WEEKENDS WHEN THE 48-HOUR RAIN PROBABILITY FORECAST EXCEEDS 50%.
  9. ALL LOOSE SOIL AND DEBRIS, WHICH MAY CREATE A POTENTIAL HAZARD TO OFFSITE PROPERTY, SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE QSP.
  10. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE WITHIN THE SITE IS AT THE DISCRETION OF THE QSP.
  11. EROSION CONTROL DEVICES WILL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES AND PLANS OF THESE CHANGES SUBMITTED FOR APPROVAL AS REQUIRED.
  12. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM.
  13. THIS PLAN HAS BEEN CREATED AS A BEGINNING CONCEPT ONLY. IF BMP'S SHOWN ARE DEEMED INEFFECTIVE OR UNNECESSARY, QSP IS TO REMOVE OR SELECT ALTERNATIVE BMP'S FROM CASQA'S HANDBOOK AND REDLINE THIS PLAN AS NEEDED.
  14. WHILE NOT ALL THE LISTED BMP'S ARE NOT INCLUDED IN THE SPECIFIC TEXT OF THE EROSION CONTROL PLAN MANY OF THESE ITEMS ARE STILL NECESSARY TO ADDRESS SPECIFIC CONSTRUCTION PROCEDURES THE CONTRACTOR PLANS IMPLEMENT. THESE ITEMS SUCH AS REFUELING STATIONS, BATCH PLANTS, WASTE FACILITIES AND THE LIKE ARE NOT SPECIFICALLY SITED ON THE PLAN BUT STILL ARE REQUIRED TO BE ADDRESS BY THE CONTRACTORS BASED ON THE CONTRACTORS PLANNED LOCATIONS.
  15. ALL BMP'S MAY NOT BE LISTED ON THIS EROSION CONTROL PLAN. THE CONTRACTOR IS REFERRED TO BE FAMILIAR WITH THE SWPPP DOCUMENT FOR THIS SITE, AS IT MAY INCLUDE ADDITIONAL NECESSARY BMP'S.

- ### DUST CONTROL NOTES:
- CONSTRUCTION OF THE PROJECT REQUIRES THE IMPLEMENTATION OF CONTROL MEASURES RECOMMENDED BY THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT THAT CAN REDUCE FUGITIVE DUST EMISSIONS ASSOCIATED WITH THIS PROJECT.
- A. ALL DISTURBED AREAS, INCLUDING STORAGE PILES, WHICH ARE NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER COVERED WITH A TARP OR OTHER SUITABLE COVER, OR VEGETATIVE GROUND COVER.
  - B. ALL ONSITE UNPAVED ROADS AND OFFSITE UNPAVED ACCESS ROADS SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER.
  - C. ALL LAND CLEARING, GRUBBING, SCRAPING, EXCAVATION, LAND LEVELING, GRADING, CUT & FILL, AND DEMOLITION ACTIVITIES SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PRESOAKING.
  - D. WHEN MATERIALS ARE TRANSPORTED OFFSITE, ALL MATERIALS SHALL BE COVERED, OR EFFECTIVELY NETTED TO LIMIT VISIBLE DUST EMISSIONS, AND AT LEAST SIX INCHES OF FREEBOARD SPACE FROM TOP OF THE CONTAINER SHALL BE MAINTAINED.
  - E. ALL OPERATIONS SHALL LIMIT OR EXPEDITIOUSLY REMOVE THE ACCUMULATION OF MUD OR TRACK-OUT FROM ADJACENT PUBLIC STREETS AT THE END OF EACH WORKDAY. (USING A PM10-EFFICIENT METHOD, SE-7).
  - F. FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACE OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER AND COVERING.
  - G. ASPHALT-CONCRETE PAVING SHALL COMPLY WITH BMP THAT PREVENT INFILTRATION OF PAVING MATERIALS AND RUNOFF INTO STORM DRAIN SYSTEMS (NS-3).
  - H. CEASE GRADING ACTIVITIES DURING PERIODS OF HIGH WINDS (GREATER THAN 20 MPH OVER A ONE-HOUR PERIOD).
  - I. LIMIT CONSTRUCTION RELATED VEHICLE SPEEDS TO 15 MPH ON ALL UNPAVED AREAS AT THE CONSTRUCTION SITE.
  - J. ALL DUST CONTROL MEASURES ARE NOT NECESSARY LISTED HERE ON THIS PLAN. THE CONTRACTOR IS REFERRED TO THE DUST CONTROL PLAN FOR THE PROJECT AND/OR SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT RULES TO CHECK COMPLIANCE.



- ### CONSTRUCTION NOTES:
1. POST 'NO TRESPASSING' SIGN AT PROJECT ENTRANCE(S)
  2. POST 'CONSTRUCTION TRAFFIC 15 MPH' SIGN AT PROJECT ENTRANCES
  3. MATERIAL LAY-DOWN AND STOCKPILE AREA (DETAIL A)
  4. EQUIPMENT PARKING WITH PROTECTIVE OIL PANS UNDER EQUIPMENT.
  5. GRAVEL PAD AT CONSTRUCTION ENTRANCE MIN. 50' LONG (SEE DETAIL B)
  6. INLET PROTECTION WITH GRAVEL BAGS. (SEE DETAIL D)
  7. STOCKPILE FOR ALL PHASES [PLACE FIBER ROLLS AT TOE OF SLOPE ALL THE WAY AROUND THE STOCKPILE] (SEE DETAIL A)
  8. CONTRACT CONCRETE WASHOUT (PER DETAIL E)
  9. LOCATION OF PORT-A-LET (PORTABLE TOILET)
  10. HAZARDOUS MATERIAL STORAGE AREA
  11. CONSTRUCTION PARKING AREA

**CENTRAL VALLEY ENGINEERING & SURVEYING, INC.**  
2511 LOGAN STREET TEL: (559) 891-8911  
SELMA, CA 95662 FAX: (559) 891-8915  
WWW.CVEAS.COM EMAIL: INFO@CVEAS.COM

PROJECT

ARCHITECTURAL DRAFTING • COMMERCIAL & RESIDENTIAL BUILDING DESIGN • PLANNING & PROJECT MANAGEMENT

NEW SINGLE FAMILY RESIDENCE FOR:  
GURDEEP DHADWAL  
PALM AND DOUGHERTY AVE.  
MORGAN HILLS, CA 95037  
APN: 712-27-043

DATE SIGNED: 2/3/2023

Revisions	Date
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**EROSION CONTROL PLAN**

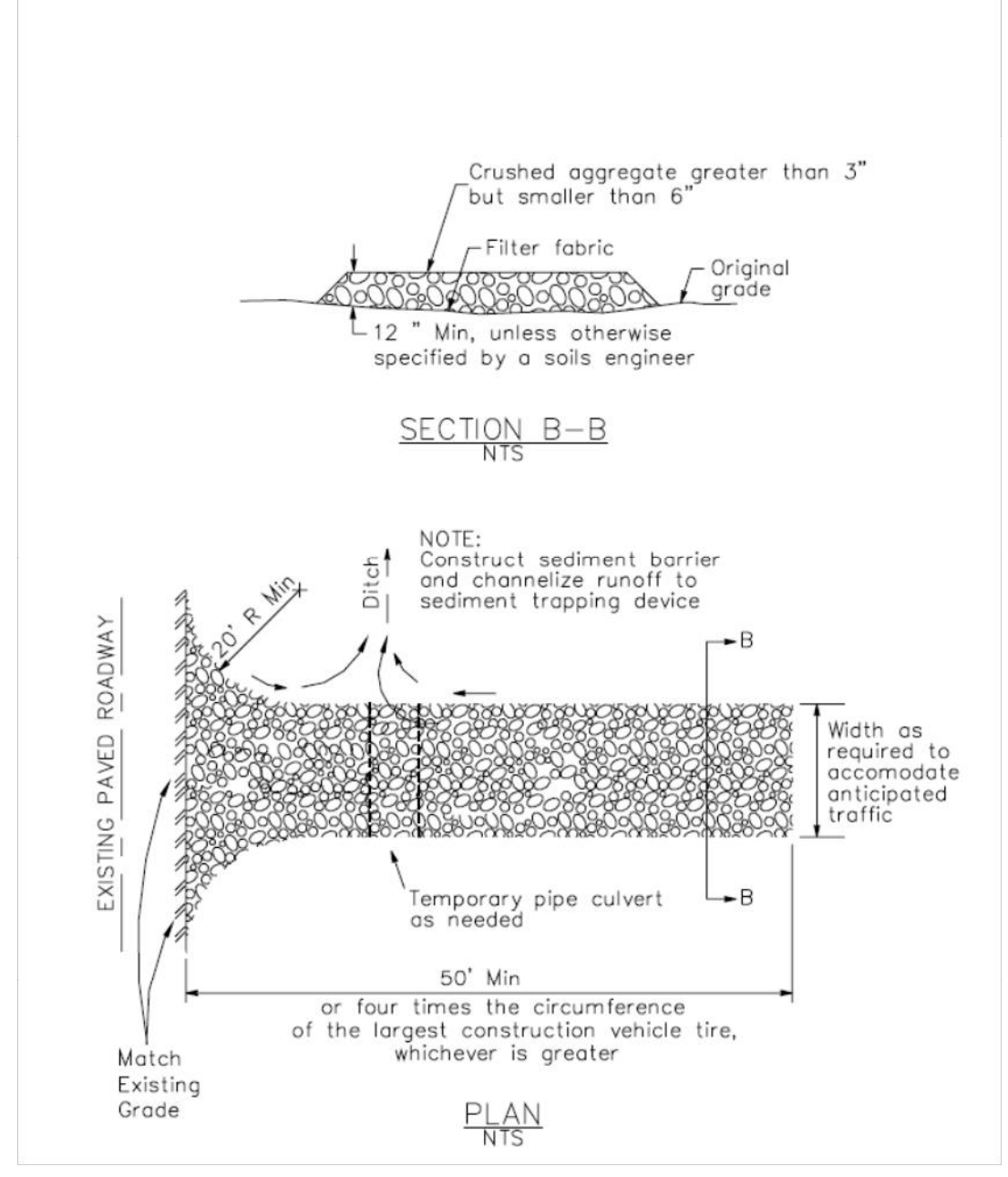
CVEAS JOB #:	22146
DATE:	2/3/2023
PLANNING SUBMITTAL #:	XX-XXXX
PLAN CHECK SUBMITTAL #:	XX-XXXX
DRAWN BY:	KX
CHECKED BY:	RL
SCALE:	NOTE ON PLANS

**C5**

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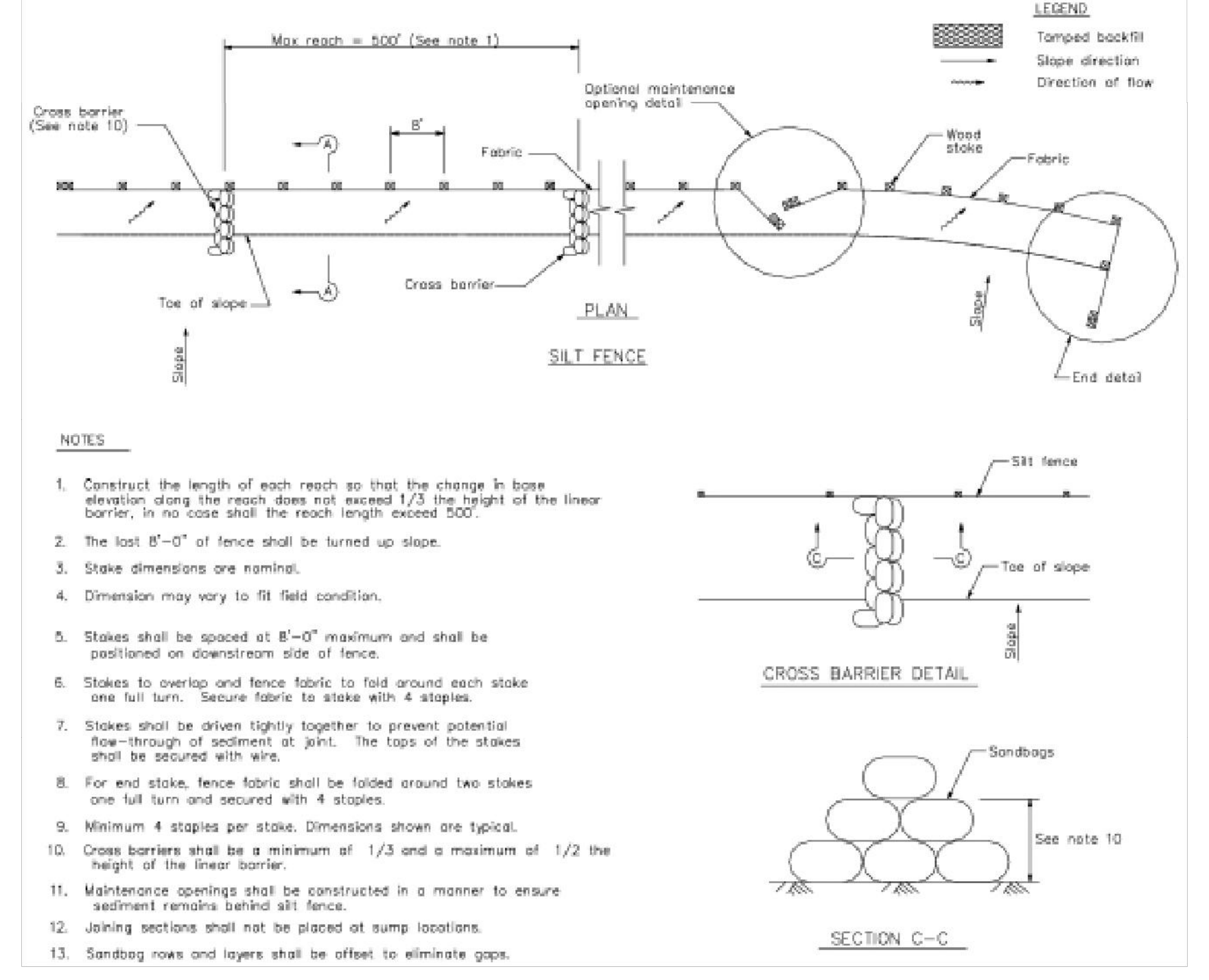
### 3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



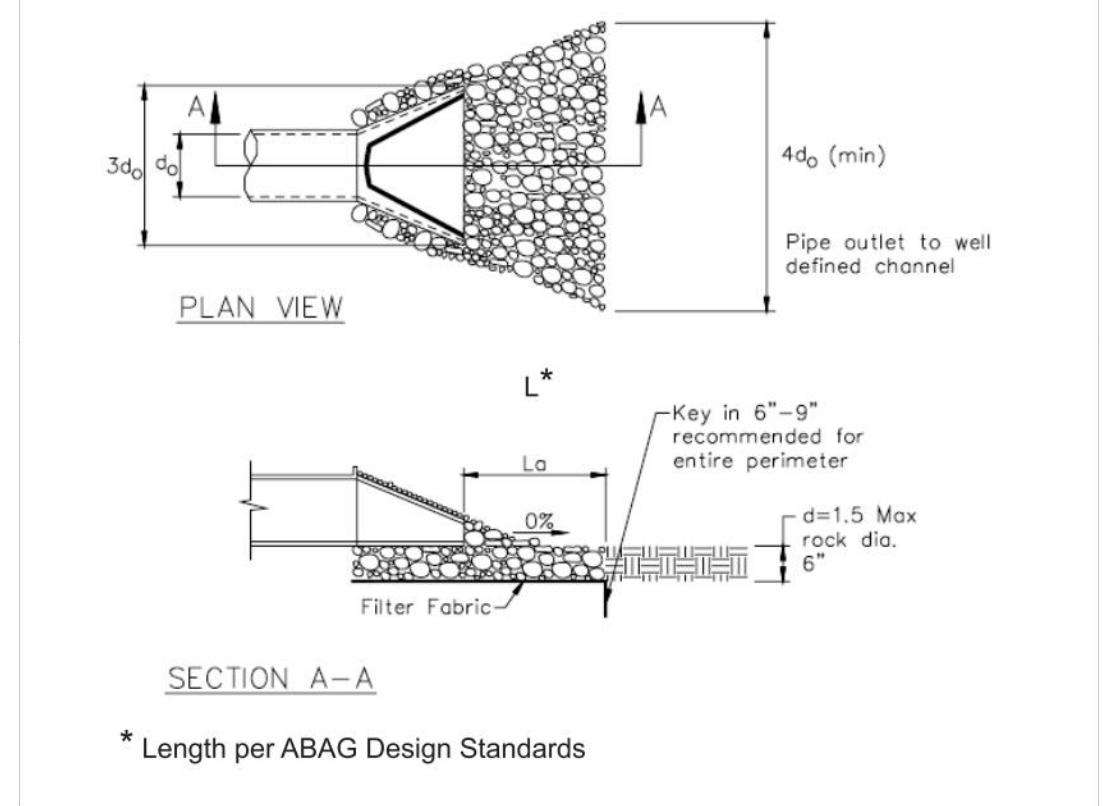
### 1 Silt Fence

CASQA Detail SE-1



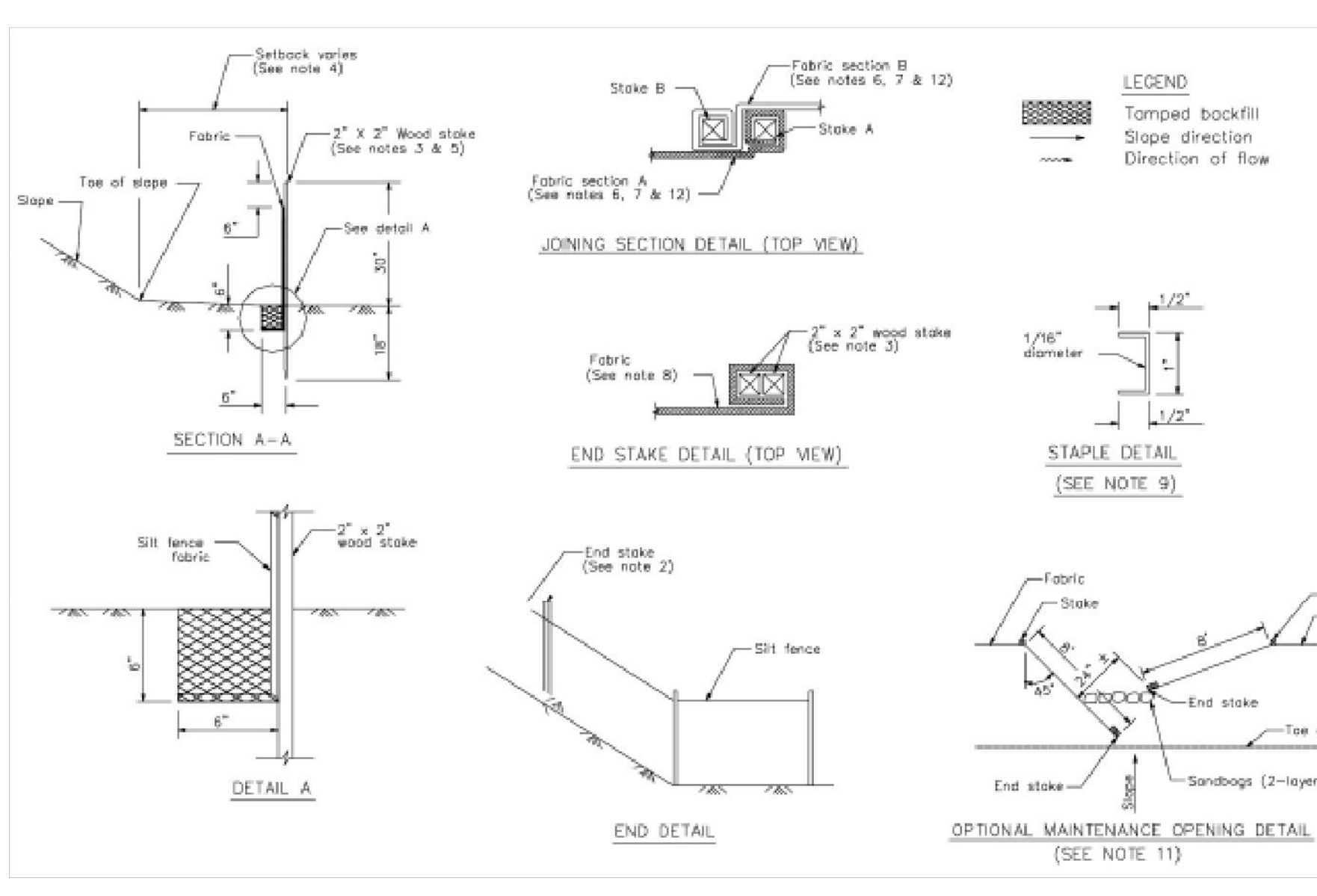
### 4 Velocity Dissipation Devices

CASQA Detail EC-10



### 2 Silt Fence

CASQA Detail SE-1



#### STANDARD BEST MANAGEMENT PRACTICE NOTES

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

#### STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
  - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
  - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
  - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
  - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
  - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

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

## Best Management Practices and Erosion Control Details Sheet 1

### County of Santa Clara



# BMP-1

Project Information

PROJECT  
**NEW SINGLE FAMILY RESIDENCE FOR:  
 GURDEEP DHADWAL  
 PALM AND DOUGHERTY AVE.  
 MORGAN HILLS, CA 95037  
 APN: 712-27-043**



DATE SIGNED: 2/3/2023

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#### SANTA CLARA COUNTY ROAD AND AIRPORT STANDARDS

CVEAS JOB #:	22146
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PLAN CHECK SUBMITTAL #:	XX-XXXX
DRAWN BY:	KX
CHECKED BY:	RL
SCALE:	NOTE ON PLANS

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# C6

ALL DETAILS, SPECIFICATIONS, DIMENSIONS AND NOTES ARE TO BE USED IN CONJUNCTION WITH THE APPLICABLE PERMITS, ORDINANCES, REGULATIONS AND DEPARTMENT OF PUBLIC WORKS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE APPLICABILITY OF THESE DETAILS TO THE PROJECT AND FOR OBTAINING NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

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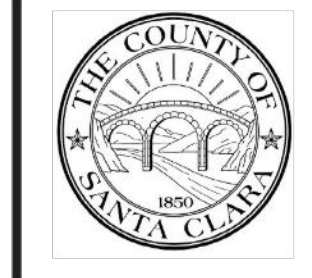


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SANTA CLARA  
 COUNTY ROAD AND  
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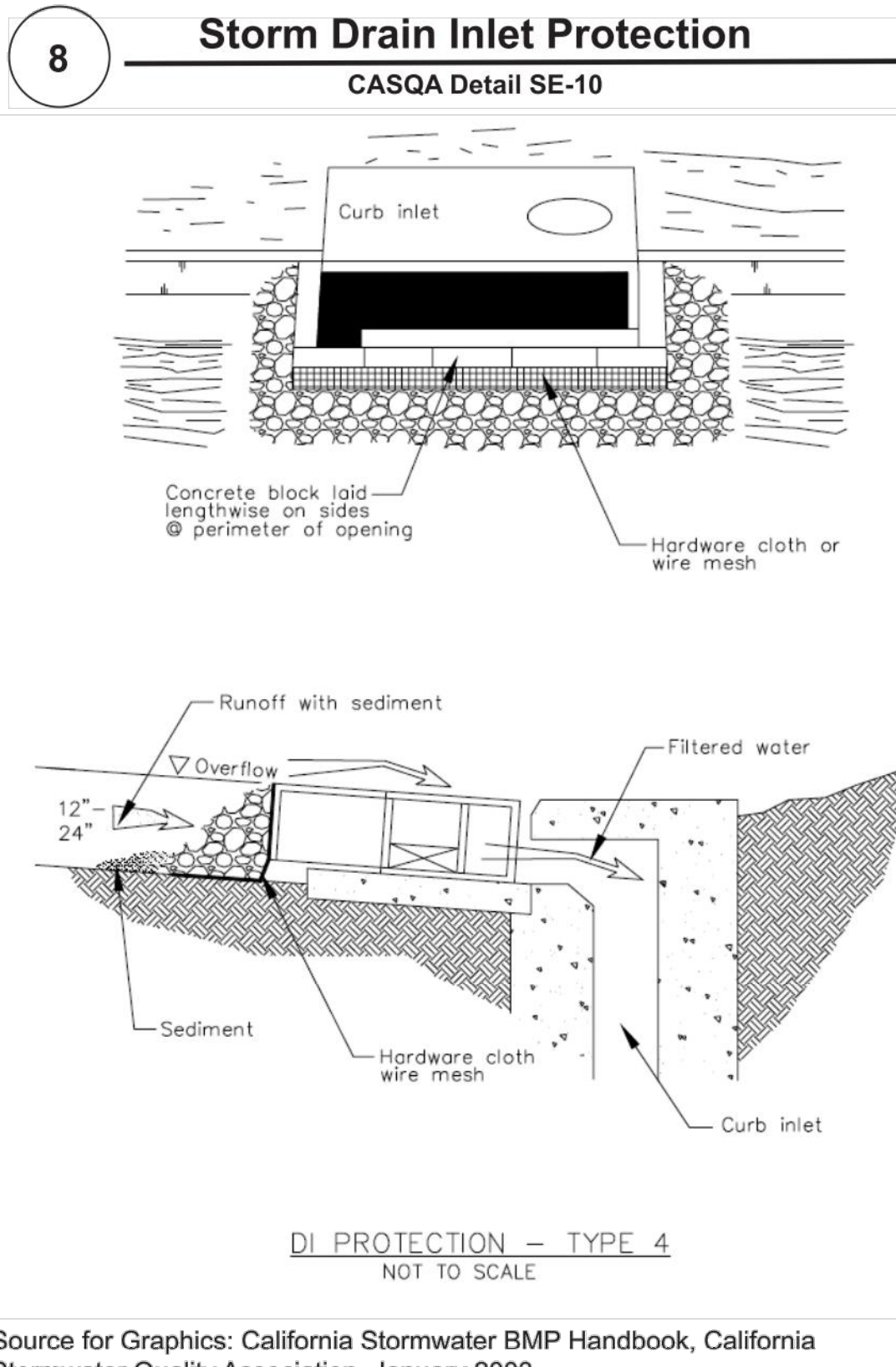
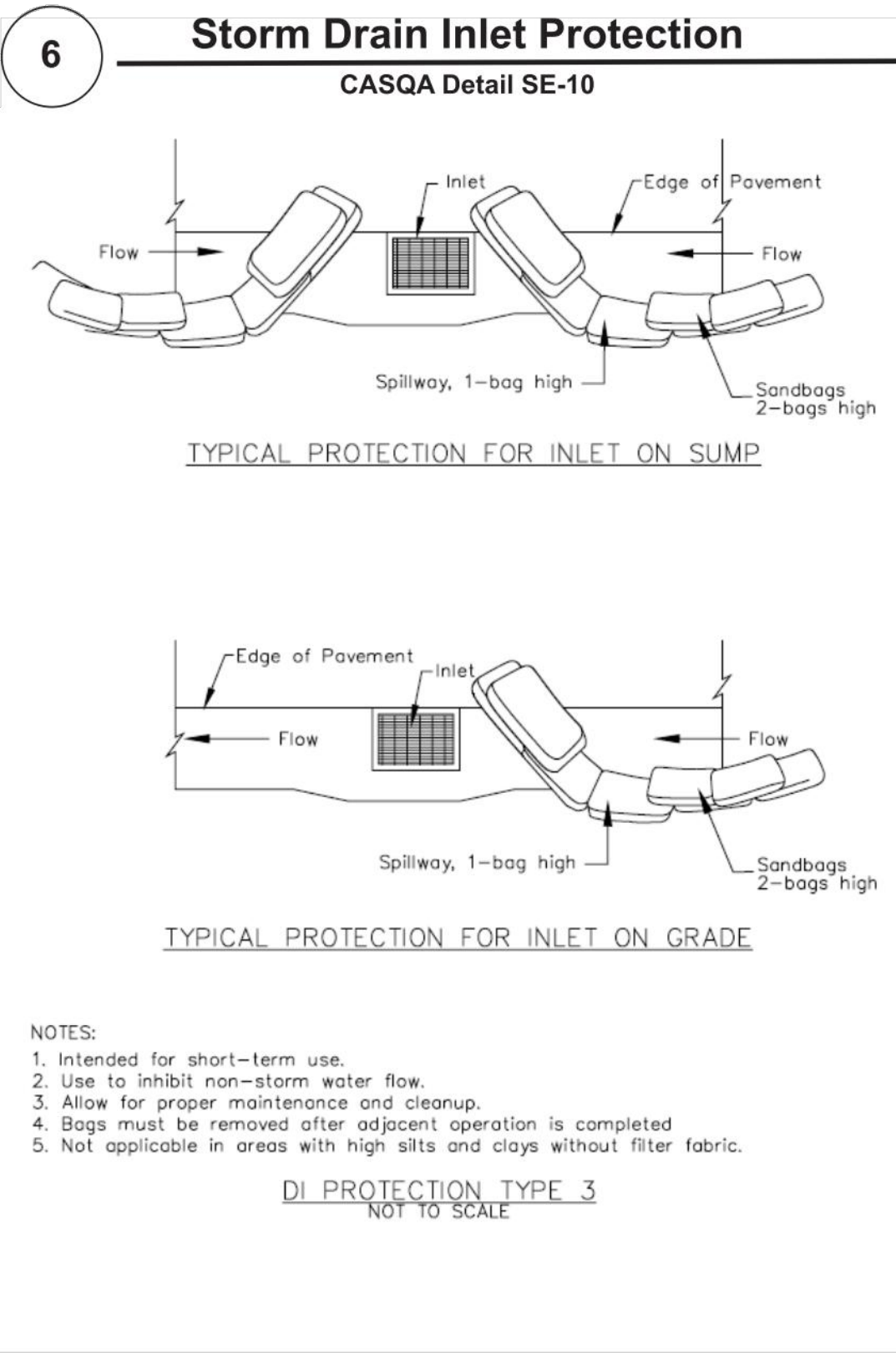
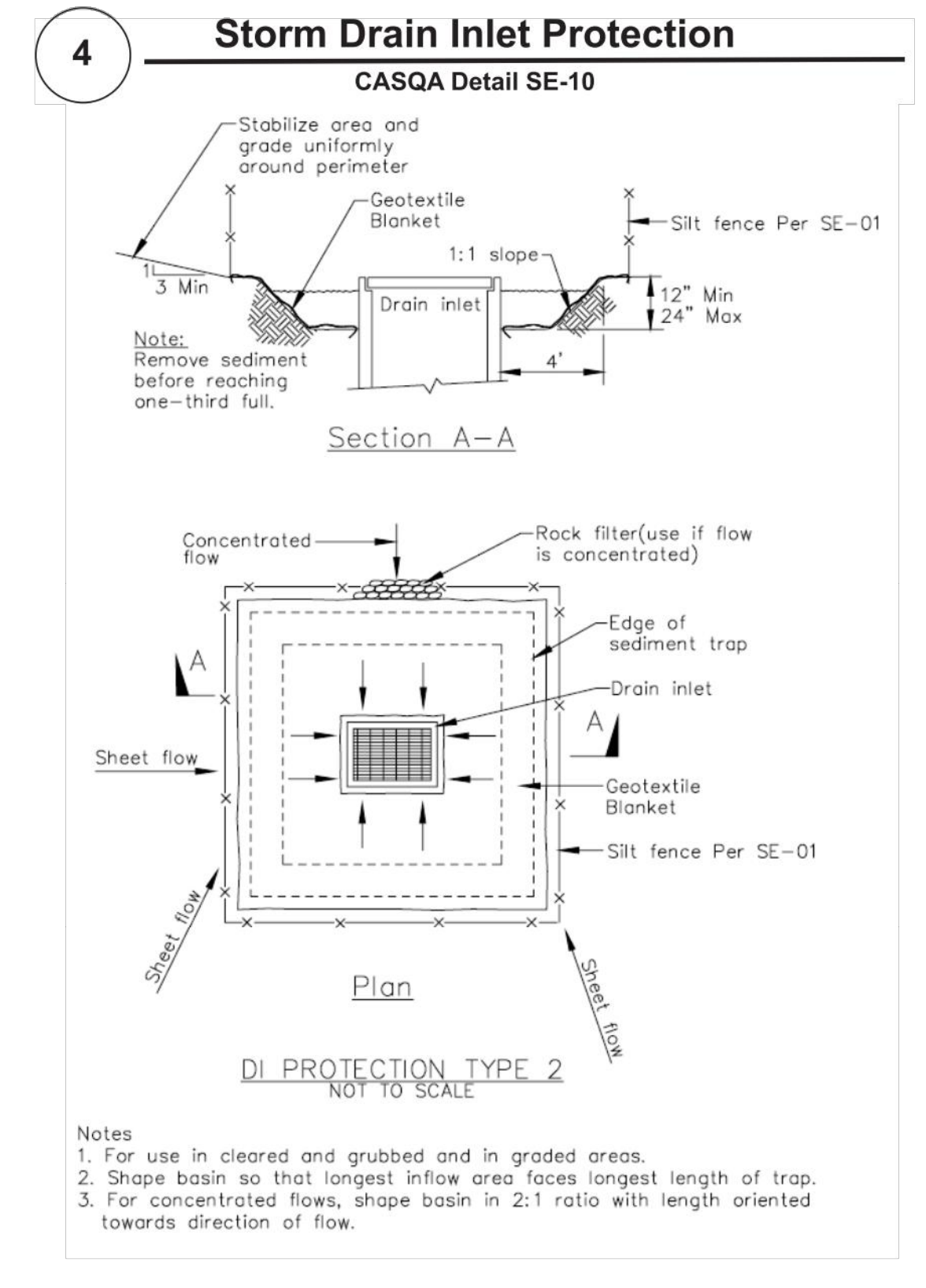
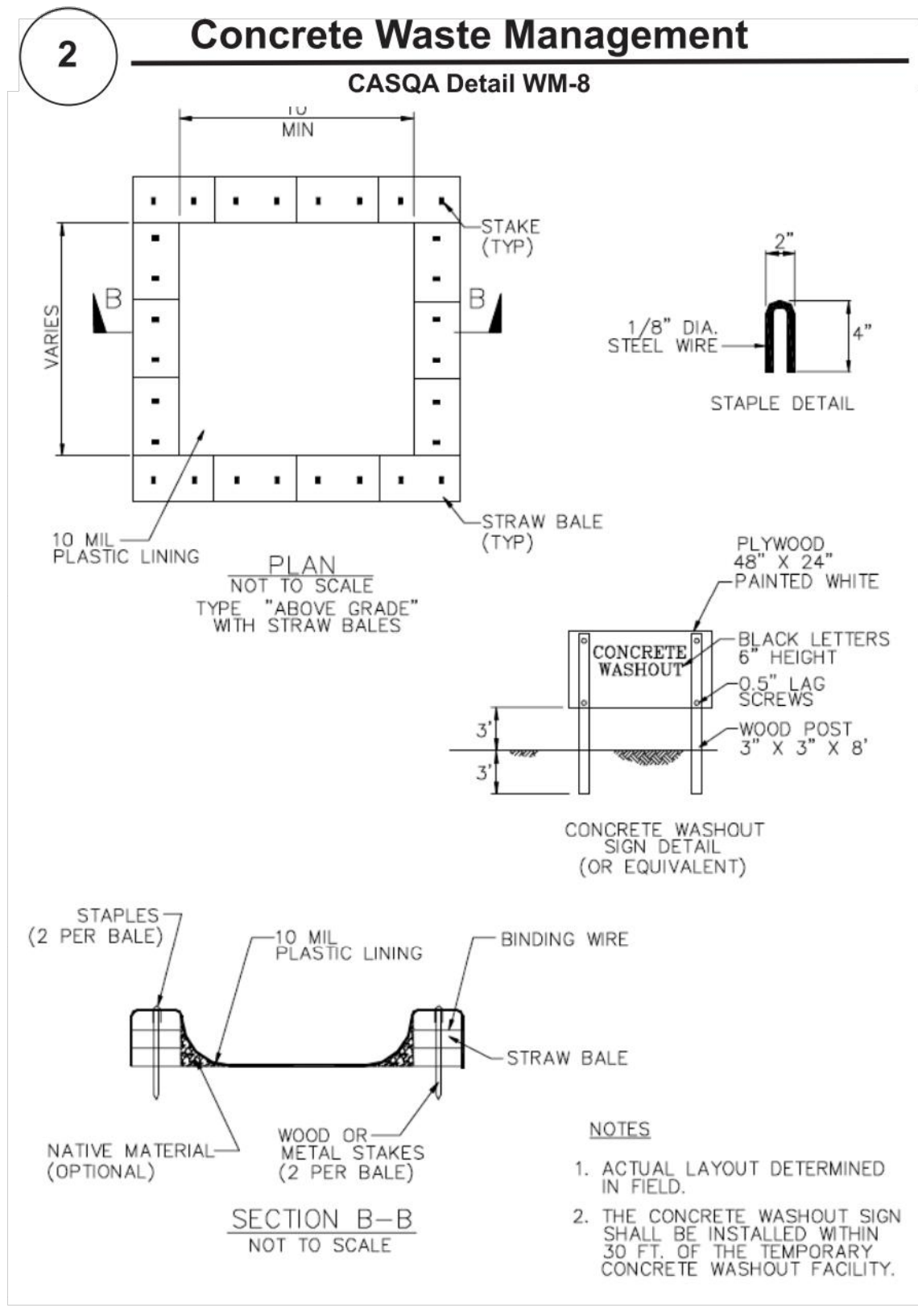
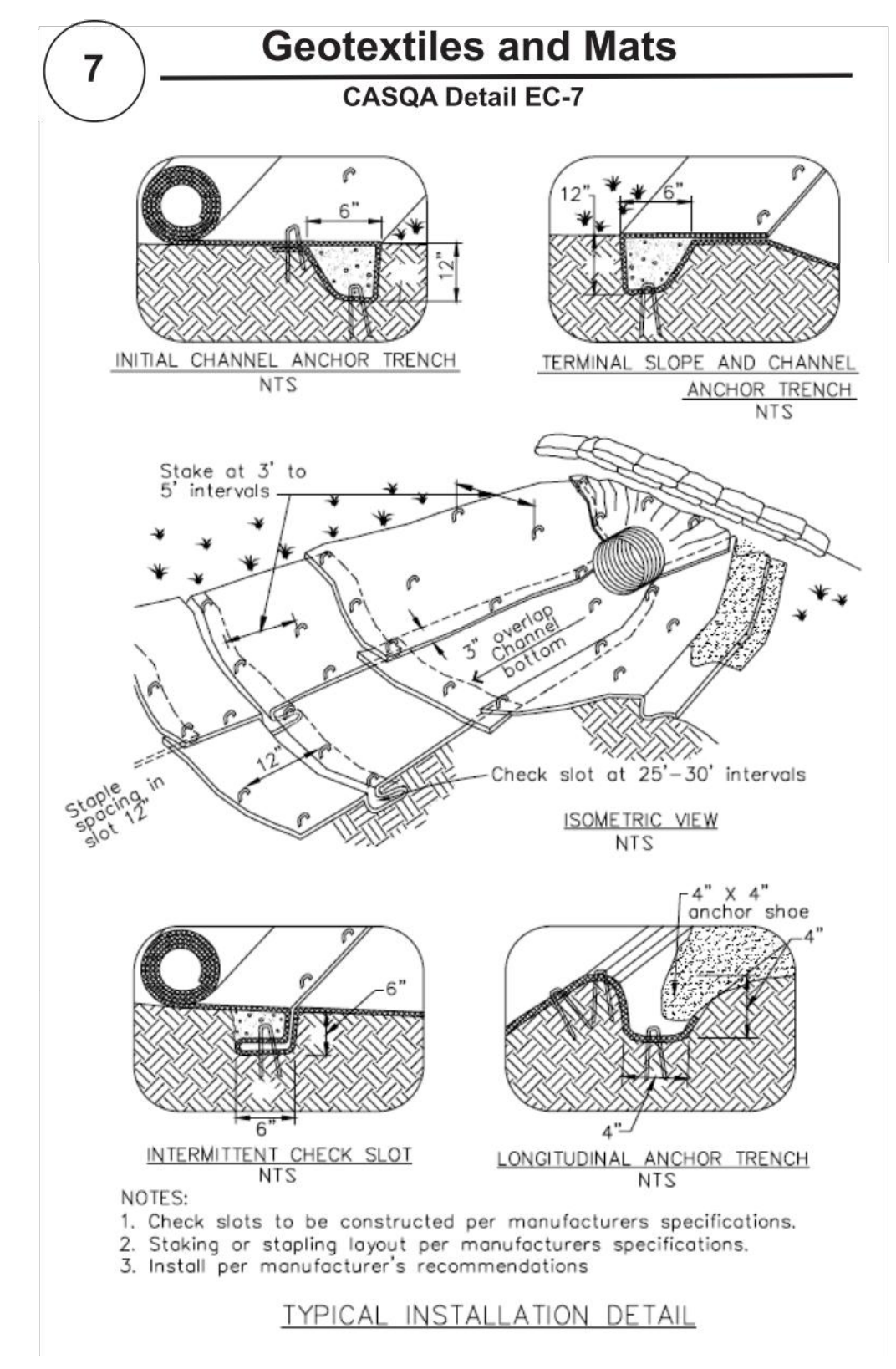
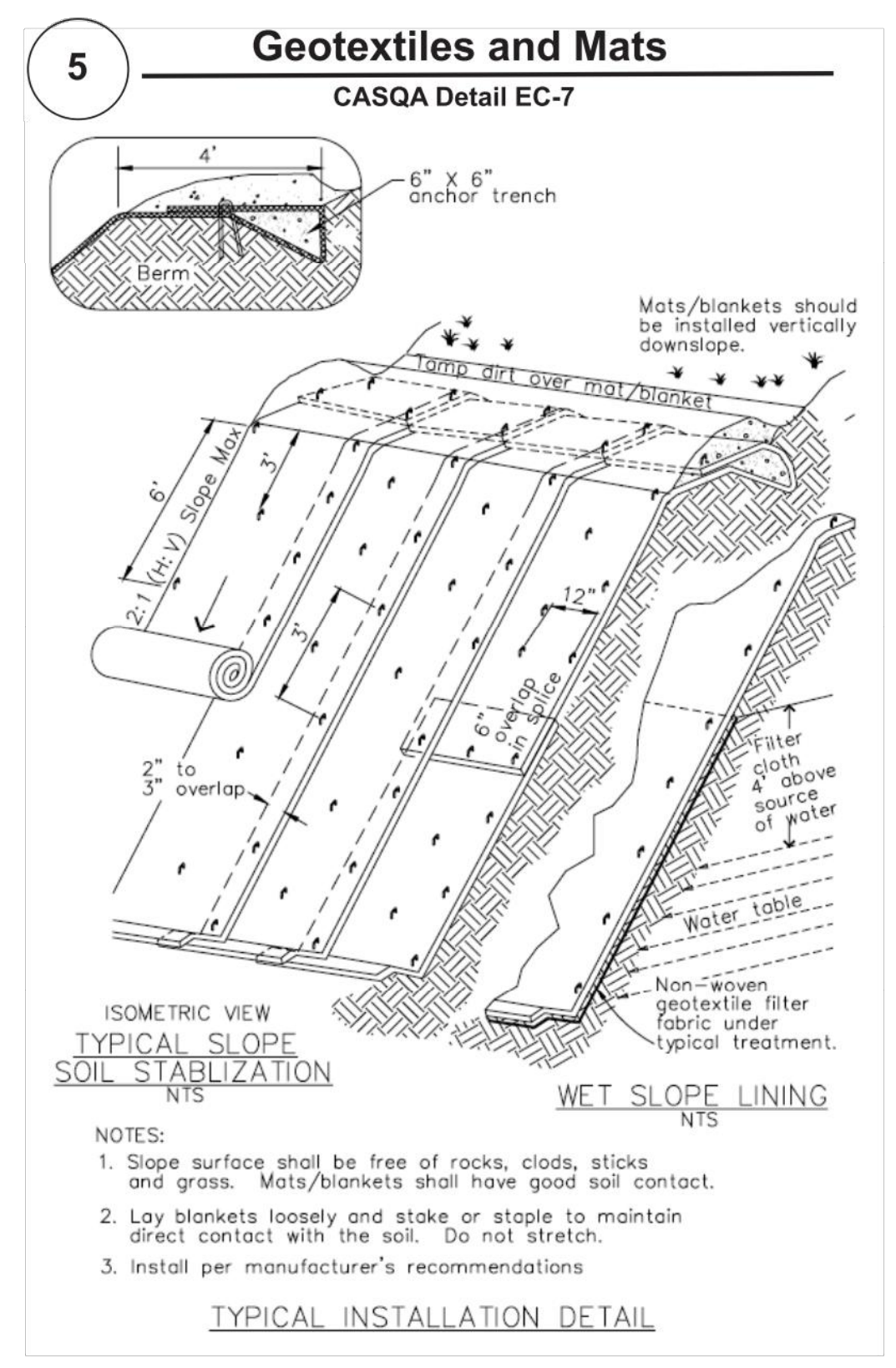
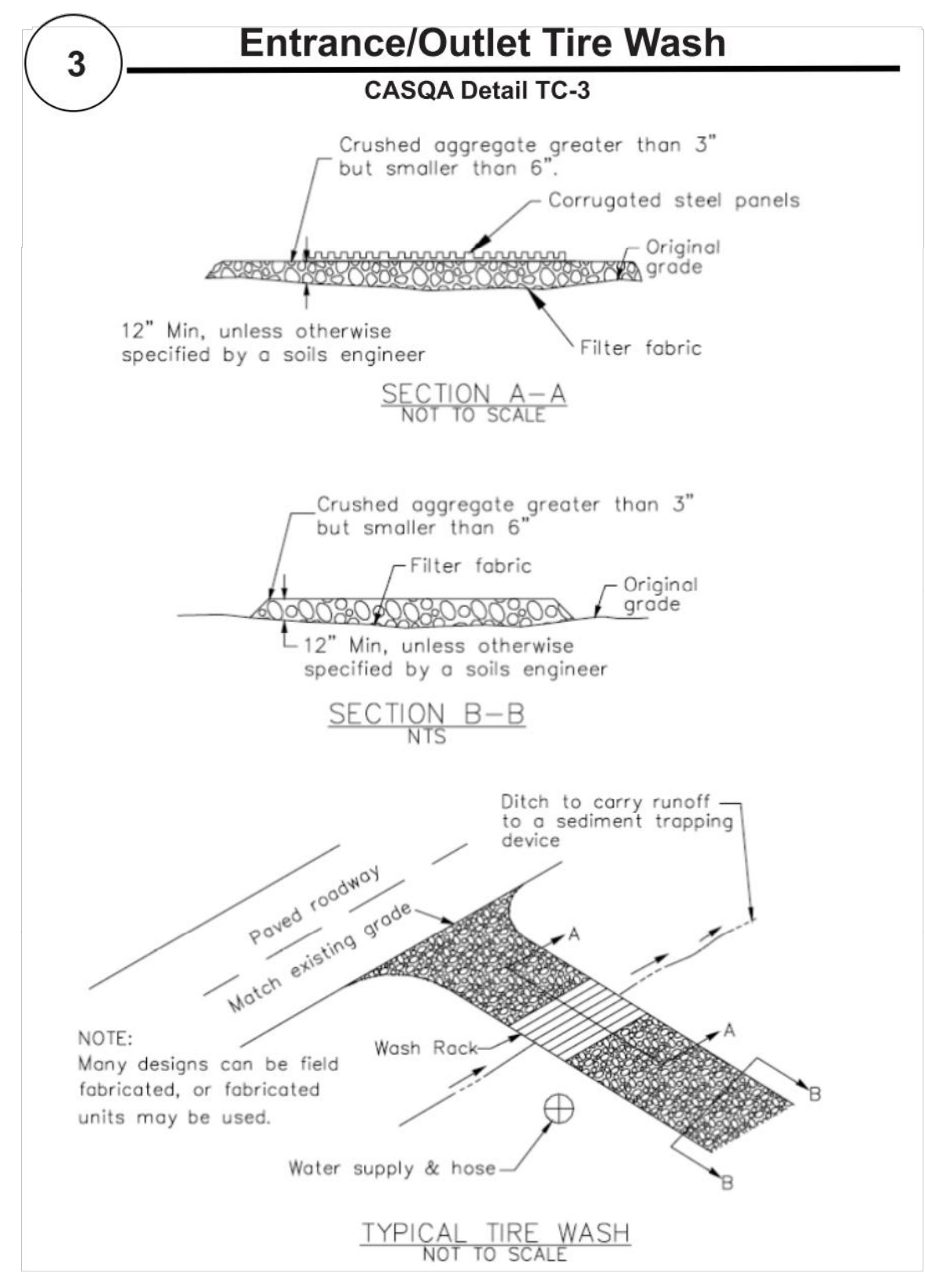
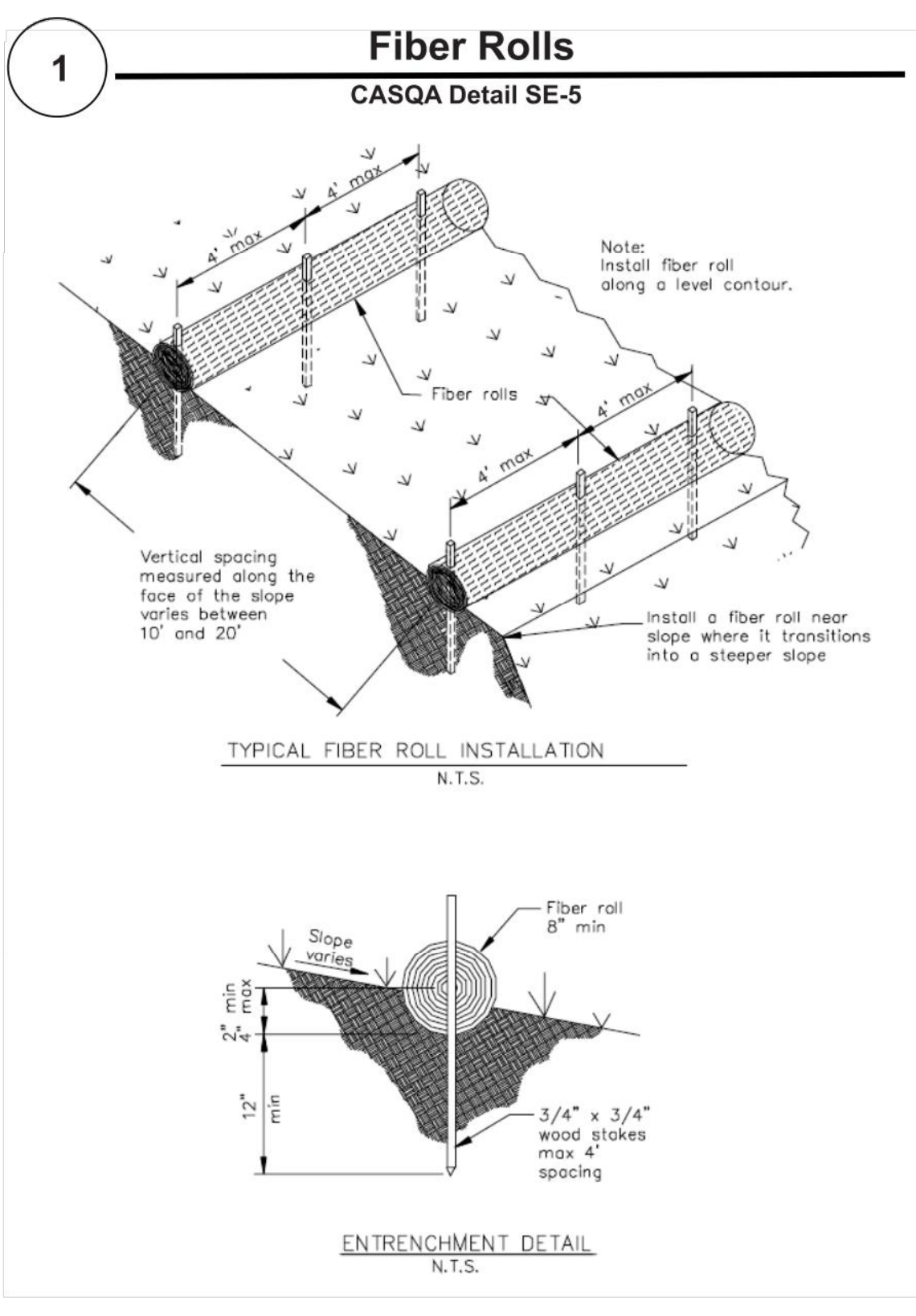
Project Information



**BMP-2**

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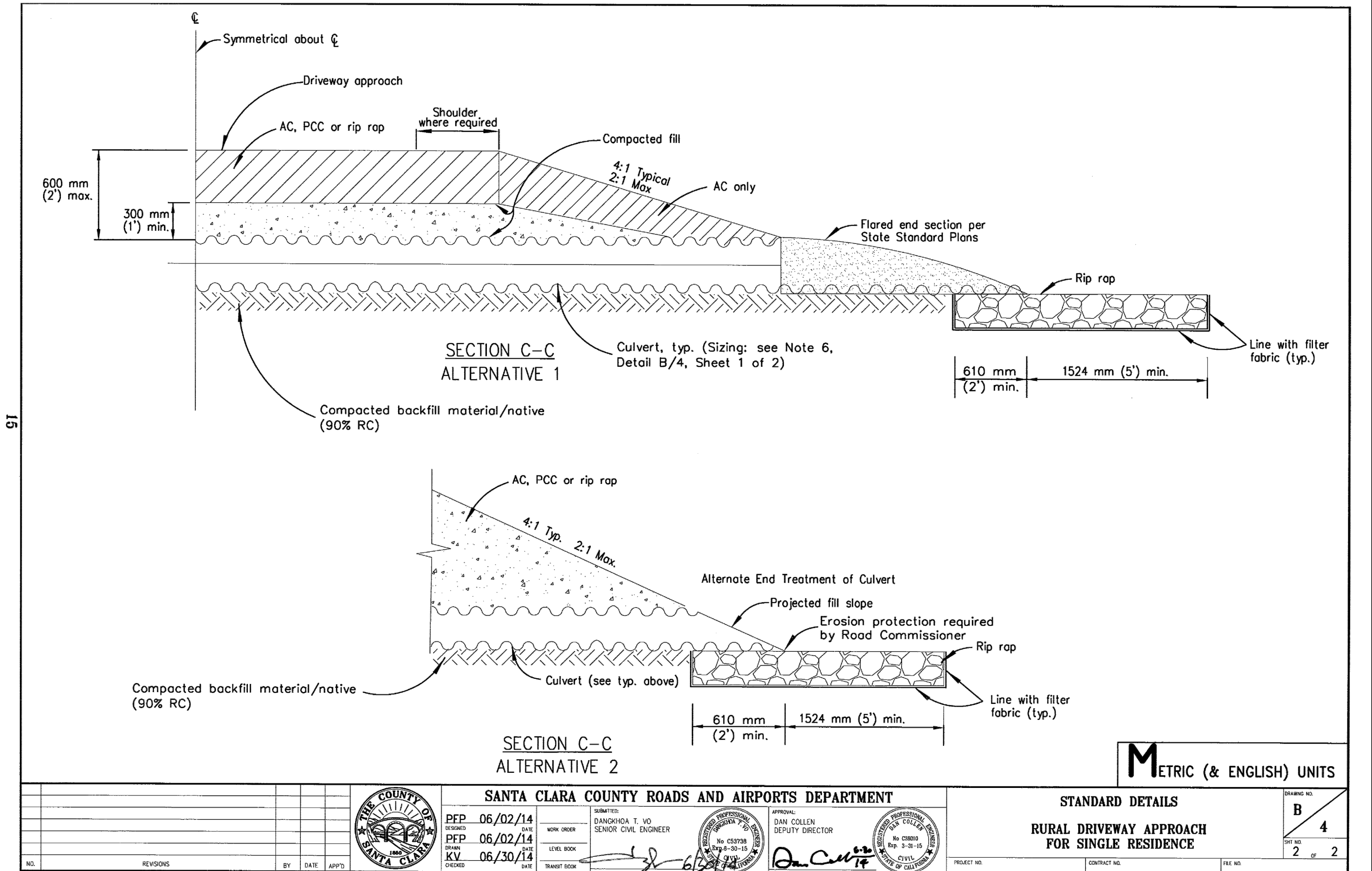
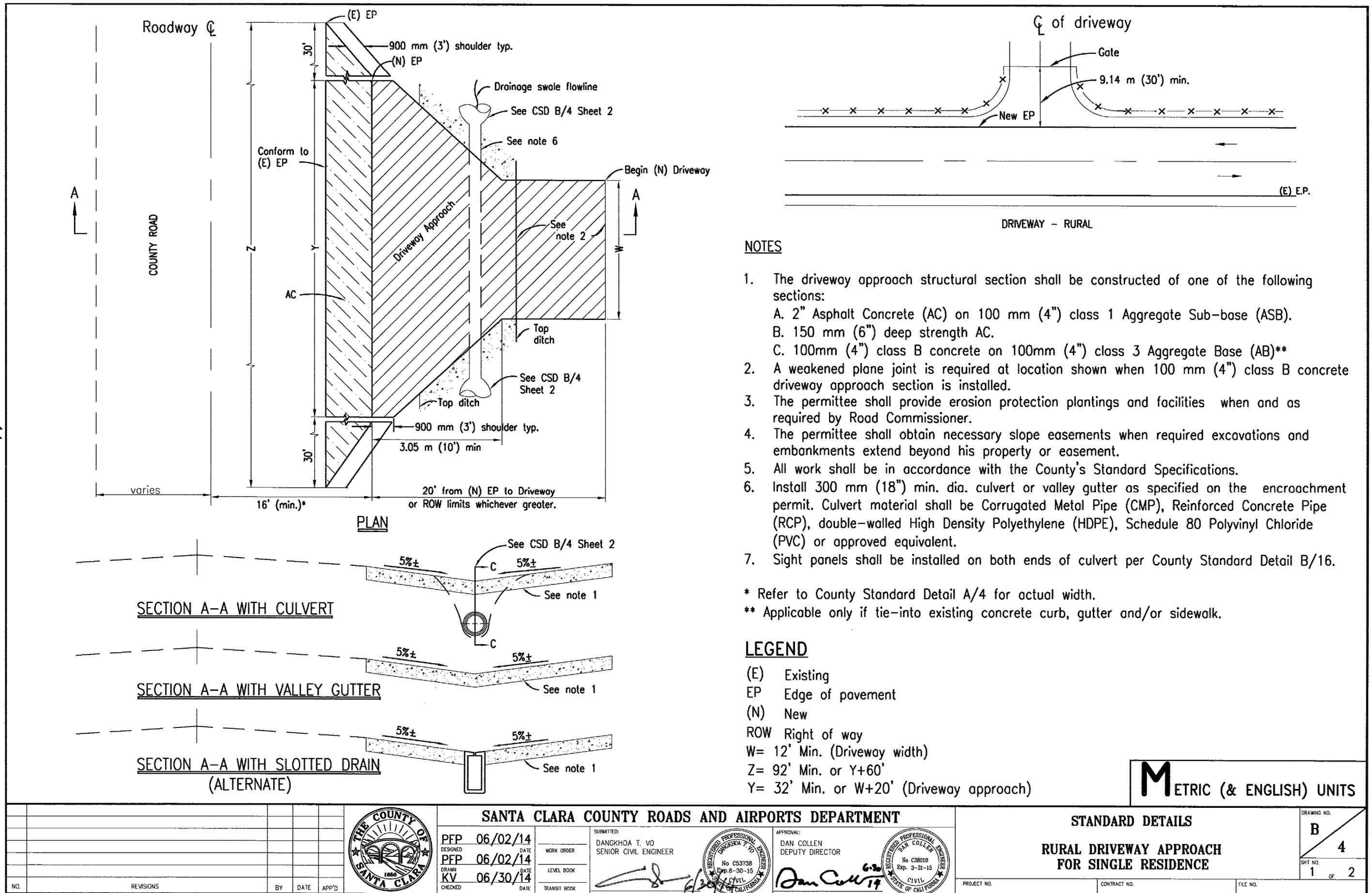


Best Management Practices and Erosion Control Details Sheet 2  
County of Santa Clara

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

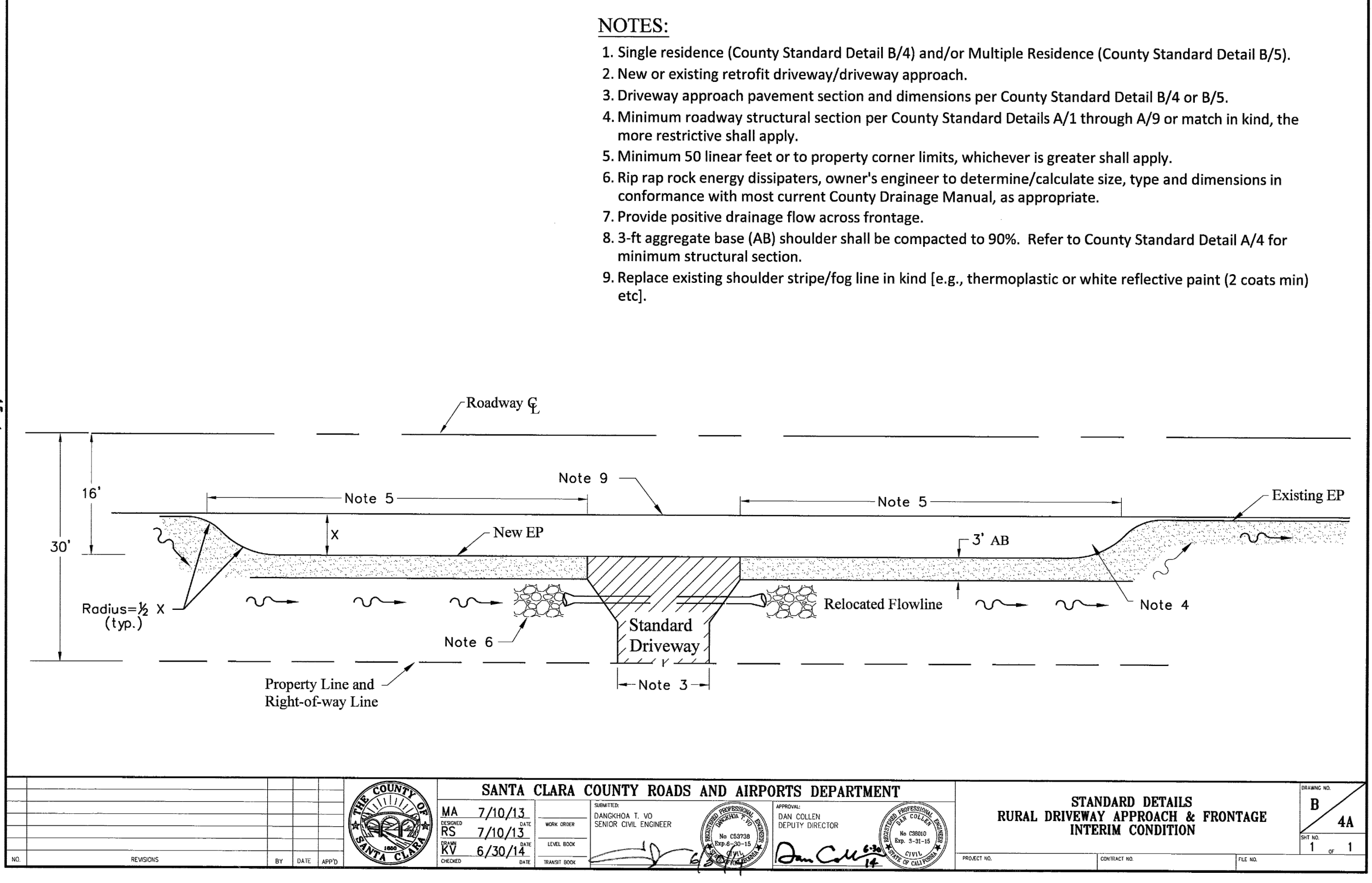
ALL UTILITIES, STRUCTURES, AND OTHER FEATURES TO BE SHOWN ON THIS DRAWING ARE TO BE LOCATED AND DEPTH AS SHOWN ON THE RECORD DRAWINGS AND AS NOTED ON THE FIELD SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES PRIOR TO CONSTRUCTION.

PROJECT  
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**MORGAN HILLS, CA 95037**  
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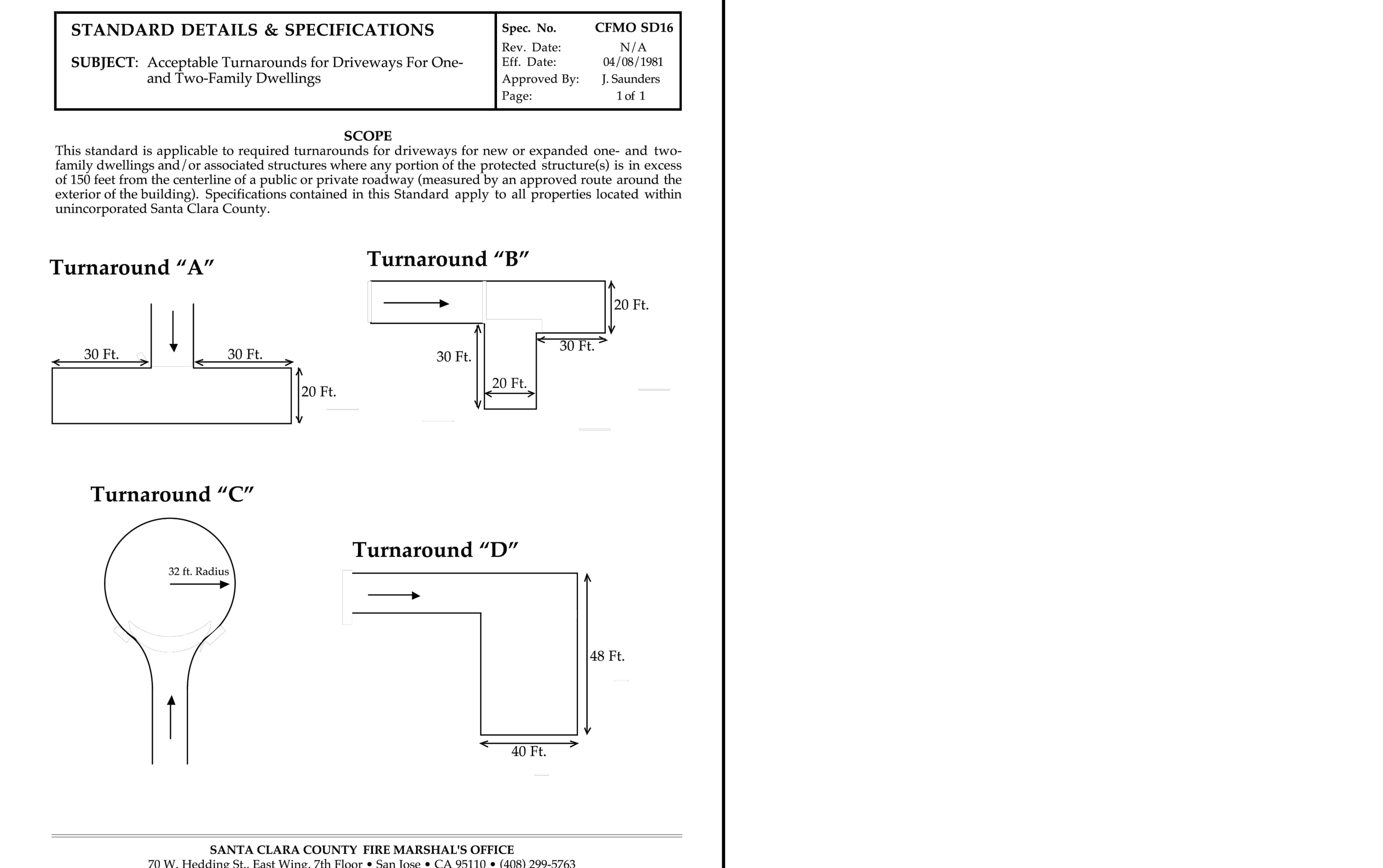


**B4-1 SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.**  
 SCALE: N.T.S.

**B4-2 SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.**  
 SCALE: N.T.S.



**B-4A SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.**  
 SCALE: N.T.S.



**SD-16 SCMO - FIRE TRUCK TURN-AROUND**  
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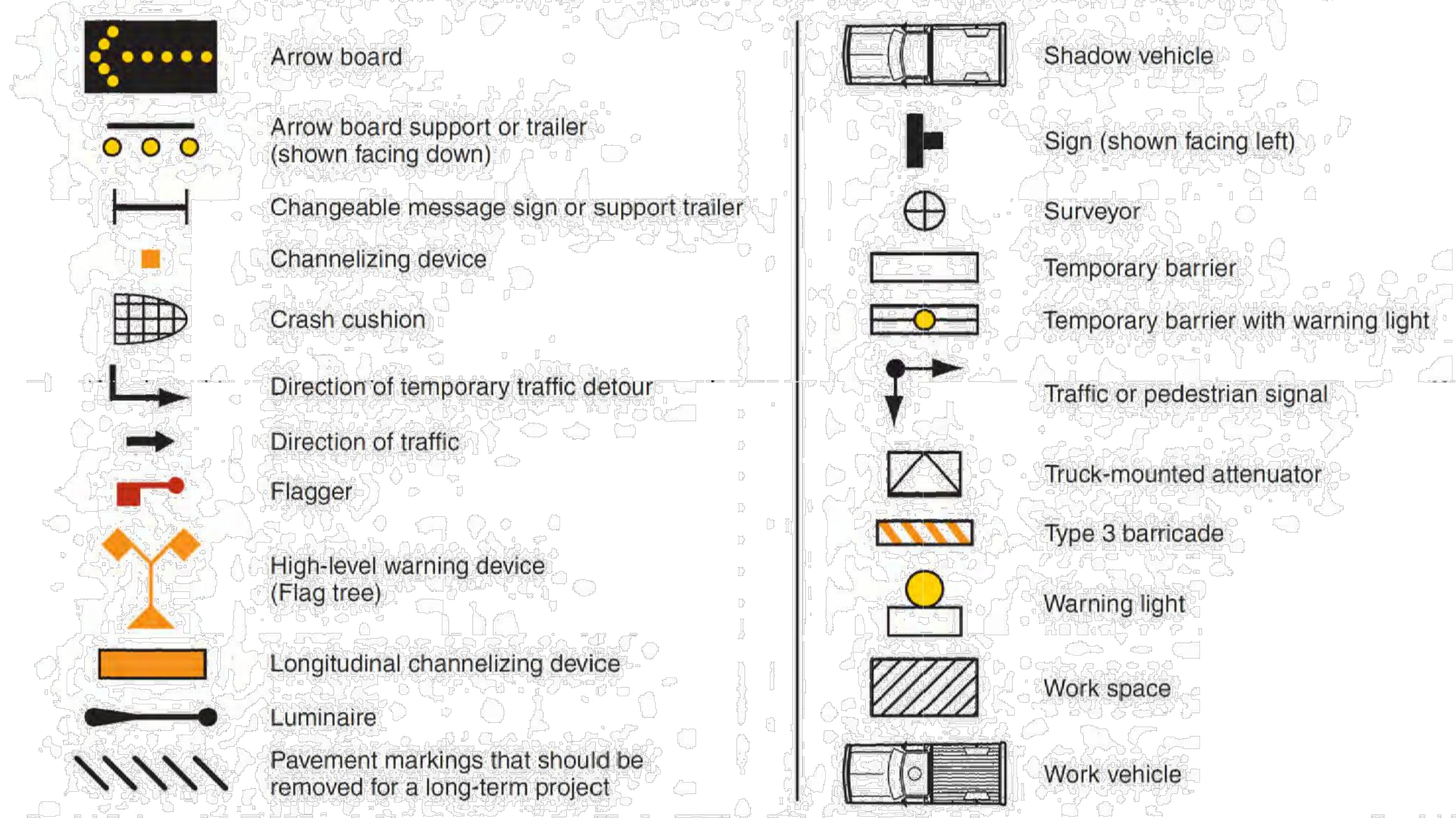
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**Table 6H-2. Meaning of Symbols on Typical Application Diagrams**



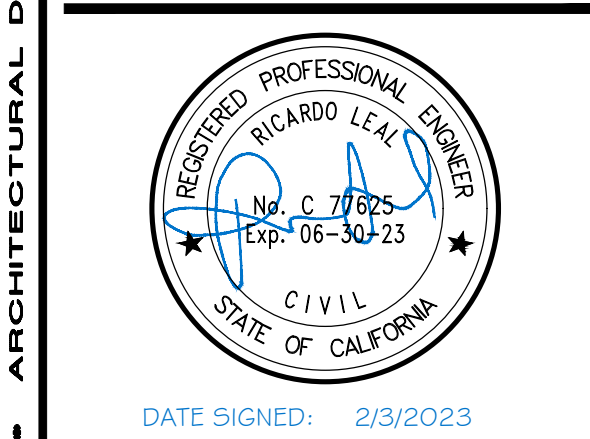
**Table 6E-101(CA). Stopping Sight Distance as a Function of Speed on Downgrades. (Used as suggested longitudinal buffer space length or location for flagger station)**

Speed (mph)	% Downgrade (Buffer Space)		
	-3% (feet)	-6% (feet)	-9% (feet)
20	116	120	126
25	158	165	173
30	205	215	227
35	257	271	287
40	315	333	354
45	378	400	427
50	446	474	507
55	520	553	593
60	598	638	686
65	682	728	785
70	771	825	891
75	866	927	1003

\* Exhibit 3-2. A Policy on Geometric Design of Highways and Streets, AASHTO, 2001, p.115.

- Use appropriate TCP as needed during construction depending on type of work (for example, to block a lane, block the shoulder, or work off of the shoulder without blocking it).
- See the County Road Book at [www.countyroads.org](http://www.countyroads.org) to confirm "Local Road" classification ("Local Urban", "Local Rural" as shown in note 5a on intro page of County Road Book)
- These TCP sheets for use on Local Roads only. All other classifications require an engineered site-specific plan.

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NO.	REVISIONS	BY	DATE	APP'D		<b>COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT</b>		<b>STANDARD TRAFFIC CONTROL PLANS - LOCAL NOTES &amp; LEGEND</b>				DRAWING No.						
												SUBMITTED:		APPROVED:		TCP		
												DESIGNED	5-2015	DATE		SHT No.	OF	
												DRAWN	5-2015	DATE		Scale		
					CHECKED	5-2015	DATE		WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.	FILE No.						
									XX									

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

**Option:**

1. For low-volume (Refer to Part 5, Section 5A.01) situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

**Guidance:**

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

**Standard:**

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

**Guidance:**

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

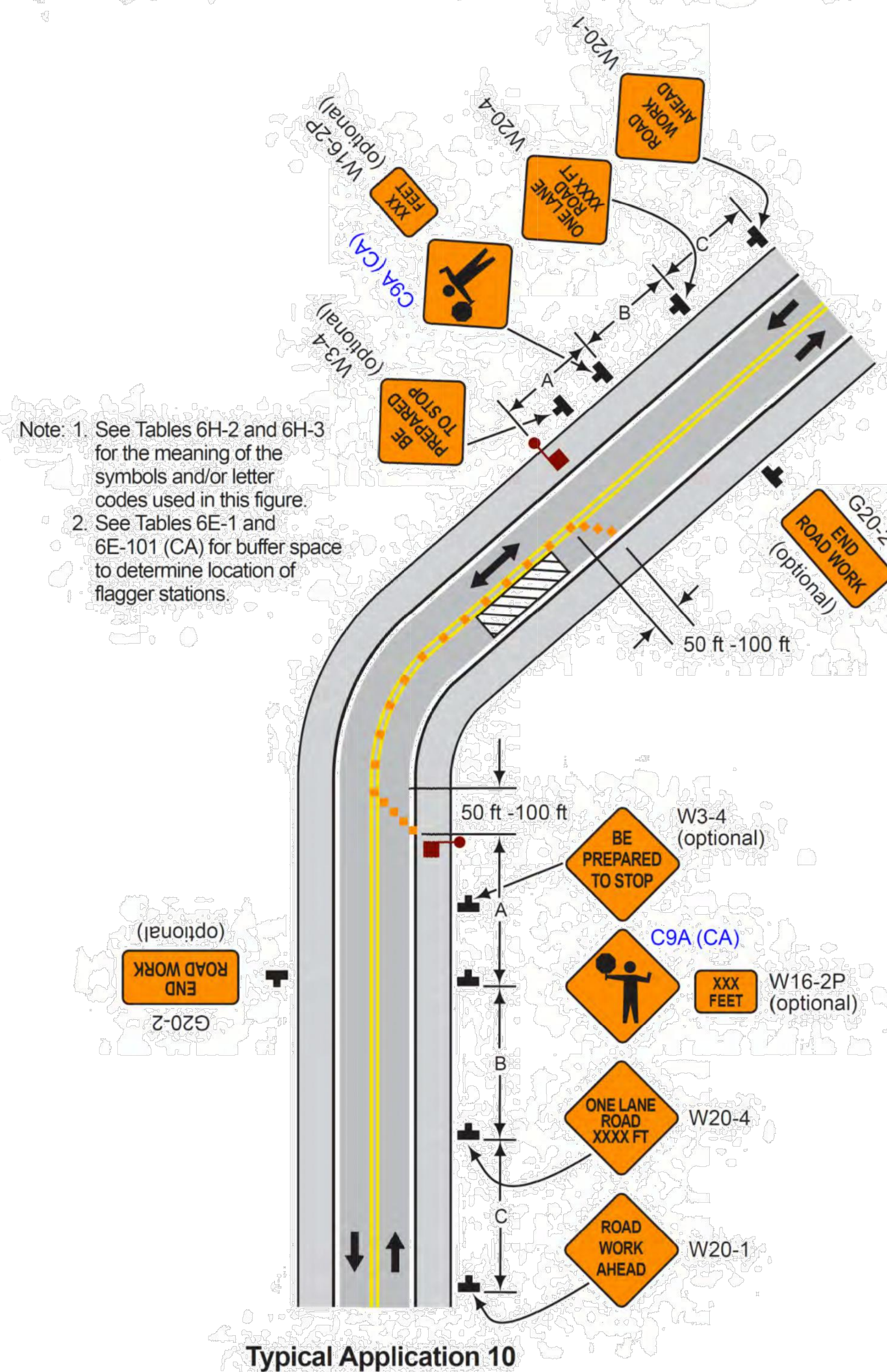
**Option:**

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

**Support:**

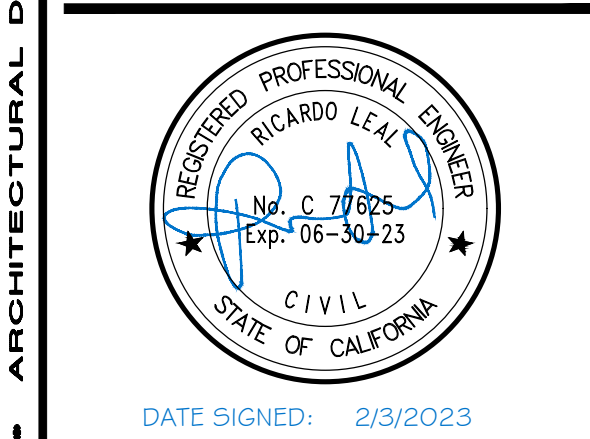
12. For State highways, see Caltrans' Standard Plan T13. See Section 1A.11 for information regarding this publication.
13. If portable transverse rumble strips are used for flagging operations, refer to Section 6F.87.

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



**Typical Application 10**

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SANTA CLARA COUNTY ROADS AND AIRPORT STANDARDS

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		<b>COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT</b>		<b>STANDARD TRAFFIC CONTROL PLANS - LOCAL LANE CLOSURE WITH FLAGGERS</b>		DRAWING No. <b>TCP</b>	
DESIGNED	5-2015	DATE	5-2015	ADVERTISED		CONTRACT No.	
DRAWN	5-2015	DATE	5-2015	FILE No.		FILE No.	
CHECKED	5-2015	DATE		WORK ORDER No.	XX	ADVERTISMENT DATE:	

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