

COUNTY OF SANTA CLARA

General Construction

Specifications

GENERAL CONDITIONS

- 1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY American Soil Testing & Engineering Inc. report # 23-5139-S... DATED 07/31/2023... 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...

CONSTRUCTION STAKING

- 1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB...

CONSTRUCTION INSPECTION

- 1. 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...

SITE PREPARATION (CLEARING AND GRUBBING)

- 1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS: A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)...

UTILITY LOCATION, TRENCHING & BACKFILL

- 1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BECOMING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES. 2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUCITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY...

RETAINING WALLS

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

GRADING

- 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED...

Table with columns: LOCATION, CUT (C.Y.), FILL (C.Y.), VERT. DEPTH. Rows include HOUSE, GARAGE, PORCH, DRIVEWAY, SITE, and TOTAL.

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE. 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.

TREE PROTECTION

- 1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA THAT INTERFERES WITH THE LINES OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING: A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES.

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.

STREET LIGHTING

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

SANITARY SEWER

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

PORTLAND CEMENT CONCRETE

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

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. 2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. 3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.

- 15. 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. 16. 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.

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...

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.

STREET LIGHTING

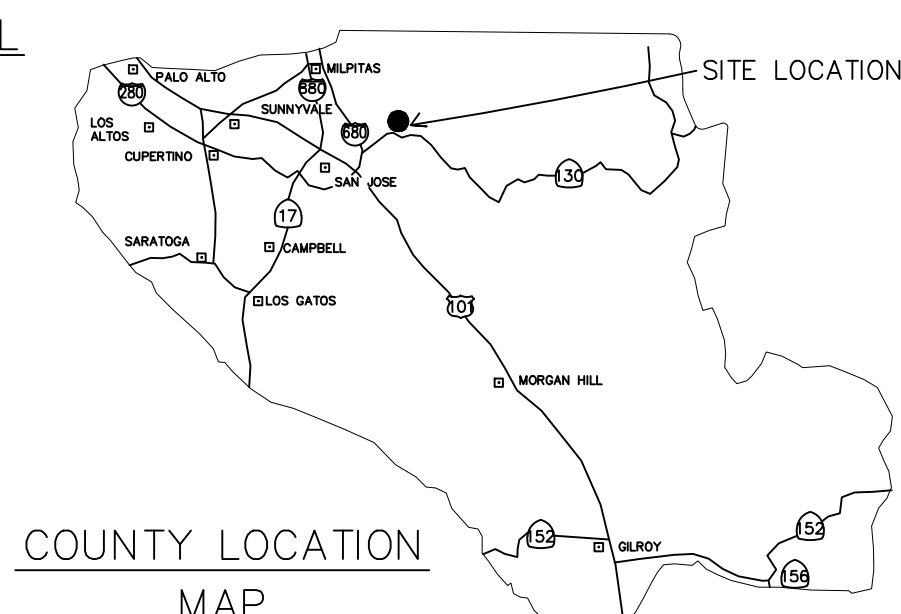
NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

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.

NOTE:

THE SOIL REPORT IS DONE BY AMERICAN SOIL TESTING & ENGINEERING INC. REPORT # 23-5139-S, DATED 07/31/2023. AMERICAN SOIL TESTING & ENGINEERING INC. @ 408-559-6400 SHALL BE RETAINED TO PROVIDE OBSERVATION AND TESTING REPORTS DURING THE GRADING PHASE OF CONSTRUCTION PER SOIL REPORT RECOMMENDATIONS.



SURVEY MONUMENT PRESERVATION

- 1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES. 2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.

BASIS OF BEARINGS:

FOUND SURVEY MONUMENTS. RECORD INFORMATION WAS USED. PER RECORD MAP, BOOK: 788 PAGE: 52 WHICH IS FILED IN THE COUNTY OF SANTA CLARA RECORDER'S OFFICE.

PROJECT BENCHMARK:

S.C.V.M.D. BENCHMARK #1060 (NAVD 88 DATUM)

SITE BENCHMARK:

SURVEY CONTROL SET MAG NAIL ELEVATION=777.0' (NAVD 88 DATUM)

SCOPE OF WORK

- 1. EXCAVATION, GRADING & DRAINAGE. 2. PERFORM CHANNEL DRAINAGE, INLET 3. RETAINING WALL WITH SUBDRAIN 4. EROSION CONTROL BMP,S

- THE WATER & SANITARY SEWER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.

NOTICE TO CONTRACTORS. CONTRACTOR TO NOTIFY U.S.A. (UNDERGROUND SERVICE ALERT) AT 800-277-2600 A MINIMUM OF 2 WORKING DAYS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES.

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

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

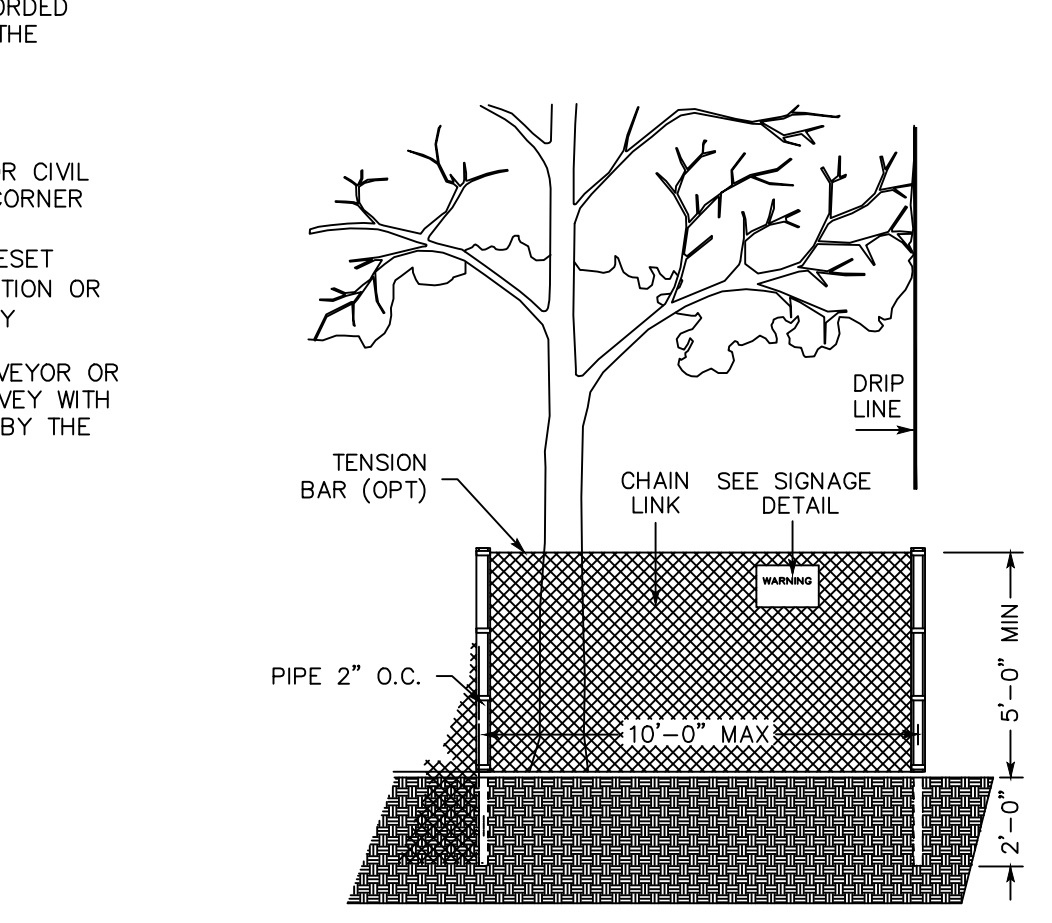
DATE 09/27/2022 [Signature] SIGNATURE C52724 R.C.E. NO.

COUNTY ENGINEER'S NOTE

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

DATE \_\_\_\_\_ DARRELL K.H. WONG 63958 R.C.E. NO. 9-30-2024 EXPIRATION DATE

Scale: NTS Prepared by: S.P. Checked by: S.R. Date: 08/15/2024 SMP PROJECT #: 223130



EXISTING TREE PROTECTION DETAILS

- 1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPROVED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.

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

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER SAEED RAZAVI No. C52724 CIVIL STATE OF CALIFORNIA

GRADING AND DRAINAGE PLANS

NEW SINGLE FAMILY HOUSE

15820 MIRADERO AVE., SAN JOSE, CA 95127

LEGEND

Table with columns: DESCRIPTION, PROPOSED, EXISTING. Lists various construction elements like PROPERTY LINE, CENTER LINE, FILL AREA LIMIT, etc.

SHEET INDEX

Table with columns: Sheet No., Description. Lists sheets C-1 through C-7 including COVER SHEET, NOTES, GRADING AND DRAINAGE PLAN, DETAILS, EROSION CONTROL PLAN, etc.

ENGINEER'S NAME: SAEED RAZAVI SMP ENGINEERS ADDRESS: 1534 CAROB LANE LOS ALTOS, CA 94024 PHONE NO. (650) 941-8055 FAX NO. (650) 941-8755

Table with columns: Revision, Date, APN, Co. File, Sheet. Shows revision history for the plan.

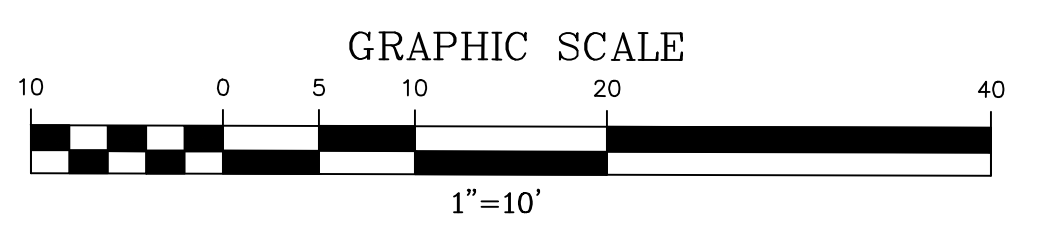
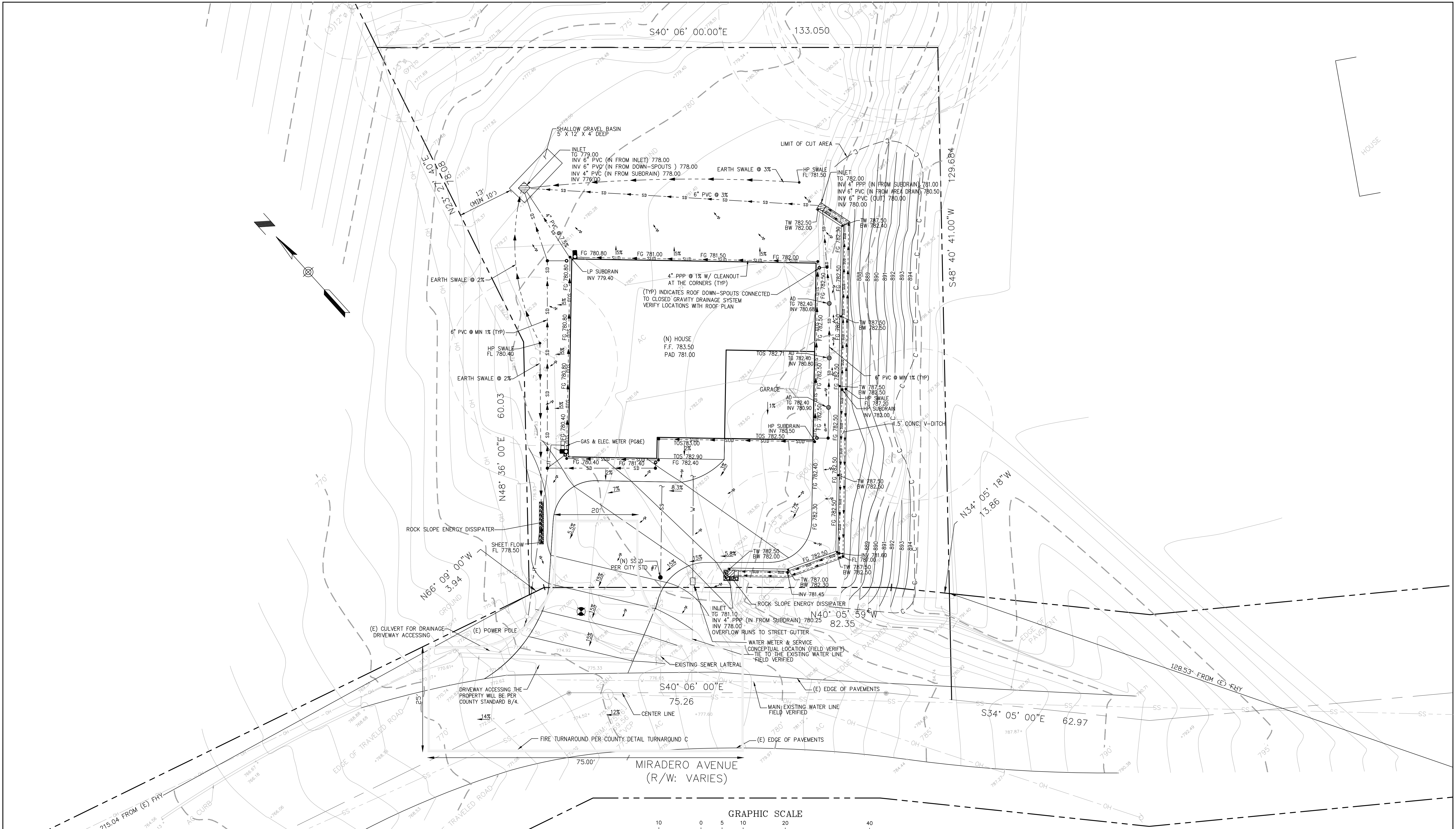
SMP ENGINEERS CIVIL ENGINEERS-LAND SURVEYORS 1534 Carob Lane Los Altos, CA 94024 Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS: APPLICANT: MANUELA AGUIAR

GRADING AND DRAINAGE PLANS COVER SHEET, NOTES

COUNTY OF SANTA CLARA NEW SINGLE FAMILY HOUSE 15820 MIRADERO AVE., SAN JOSE, CA 95127

Sheet: C-1 1 OF 7 COUNTY RECORD NO.:



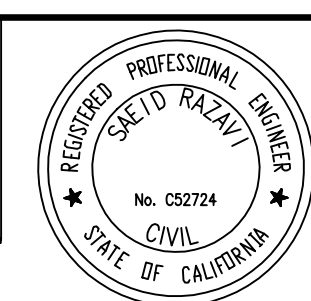
$$\text{SLOPE DENSITY} = \frac{0.0023 \times 1 \times 2,938}{0.321} = 21.05\%$$

**SMP ENGINEERS**  
 CIVIL ENGINEERS—LAND SURVEYORS  
 1534 Carob Lane Los Altos, CA 94024  
 Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS:  
 APPLICANT: MANUELA AGUIAR

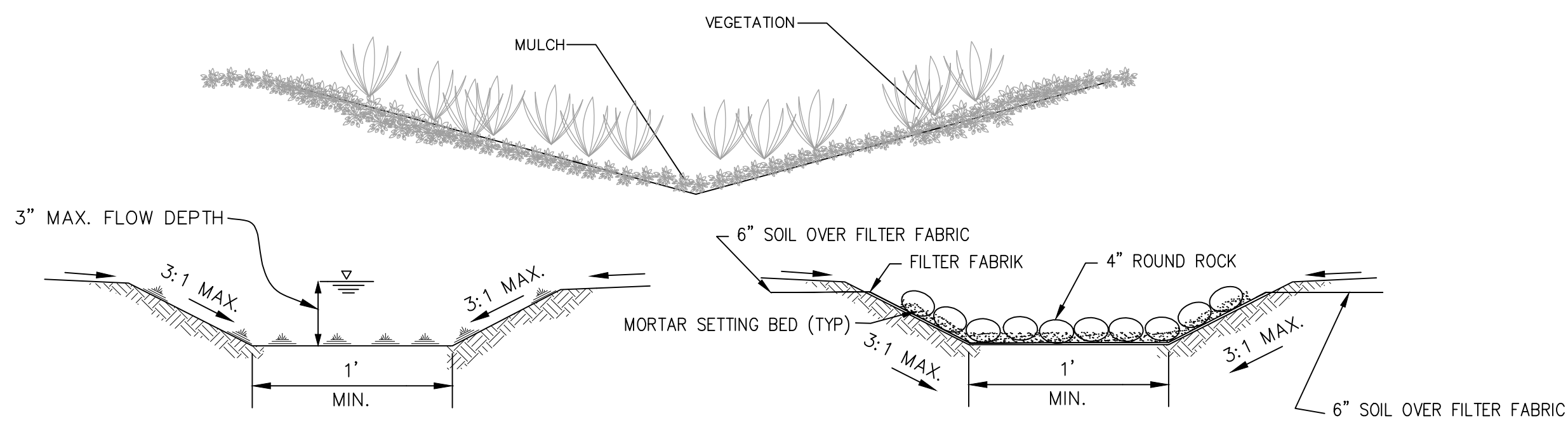
**GRADING AND DRAINAGE PLANS**  
**GRADING AND DRAINAGE PLAN**  
 COUNTY ROAD: MIRADERO

Scale: 1"=10'  
 Prepared by: S.P.  
 Checked by: S.R.  
 Date: 08/15/2024  
 SMP PROJECT #: 223130



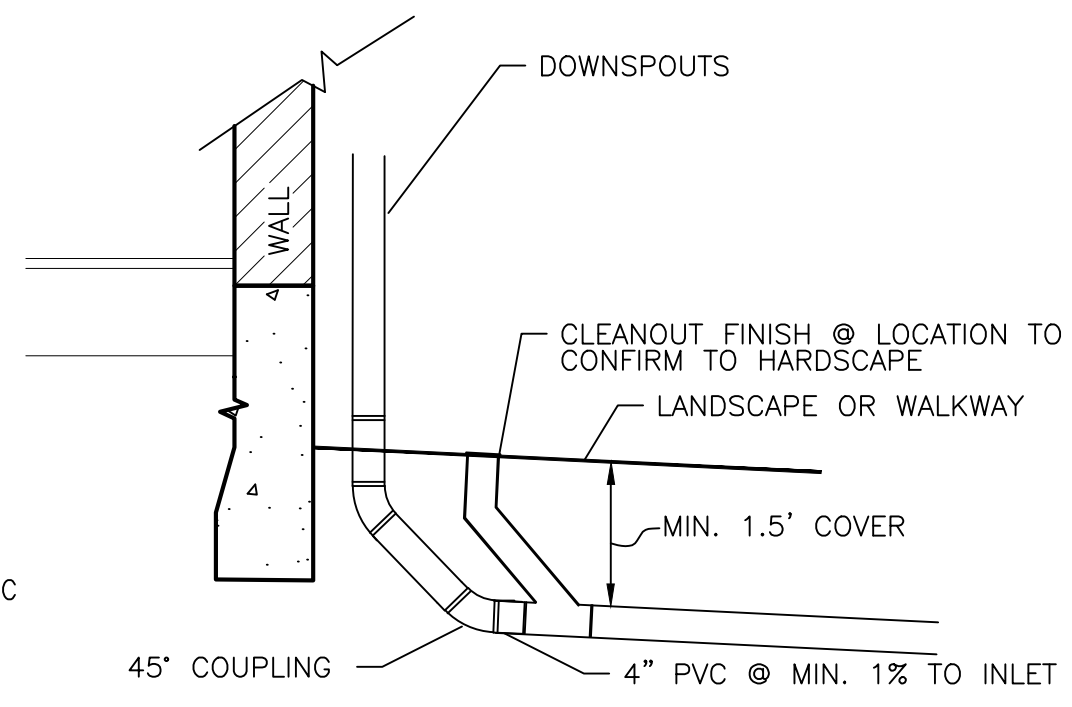
COUNTY RECORD NO.:

COUNTY OF SANTA CLARA  
 NEW SINGLE FAMILY HOUSE  
 15820 MIRADERO AVE., SAN JOSE, CA 95127  
 Sheet: **C-2**  
 2 OF 7

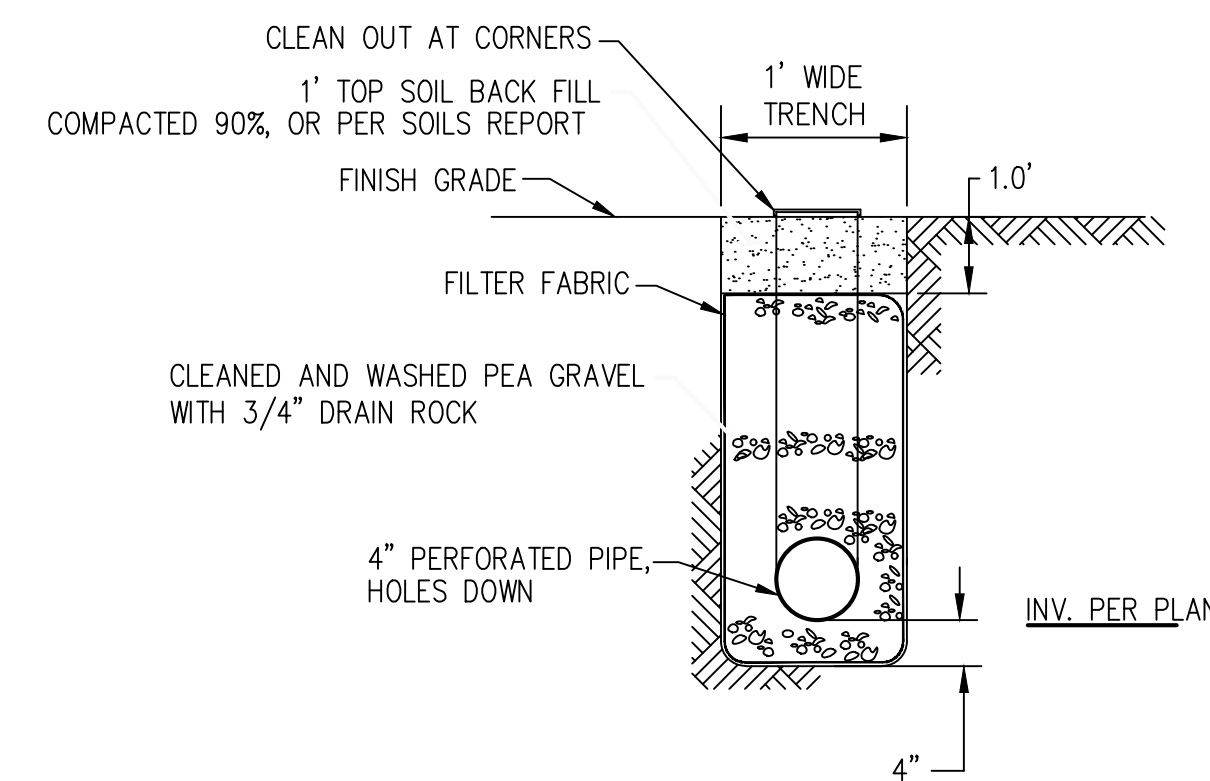


**EARTH SWALE DETAIL**  
N.T.S.

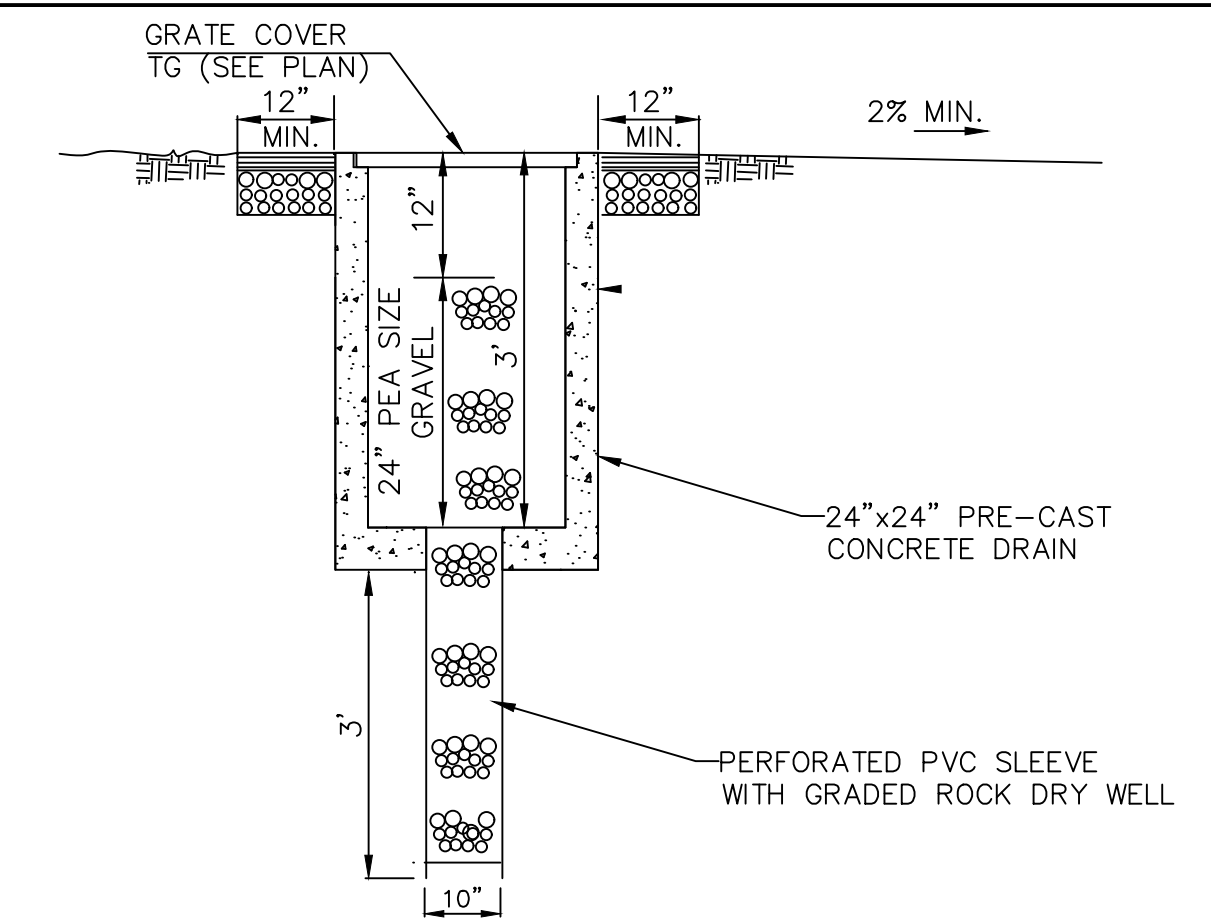
**ROCK ENERGY DISSIPATOR DETAIL**  
N.T.S.



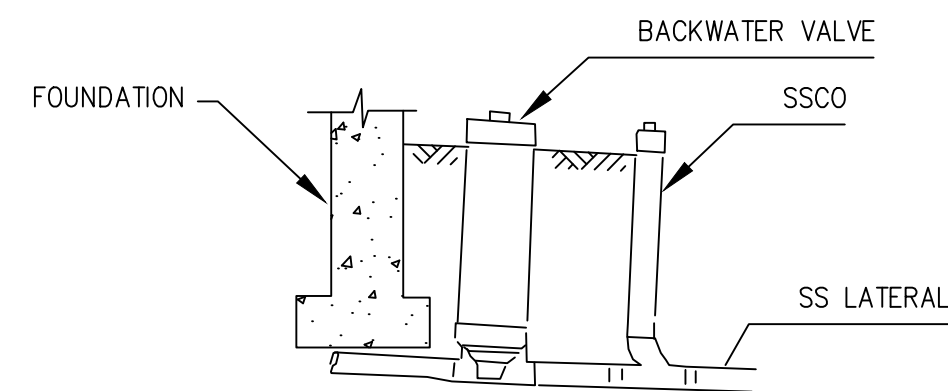
**ROOF DOWN-SPOUT CONNECTION**  
N.T.S.



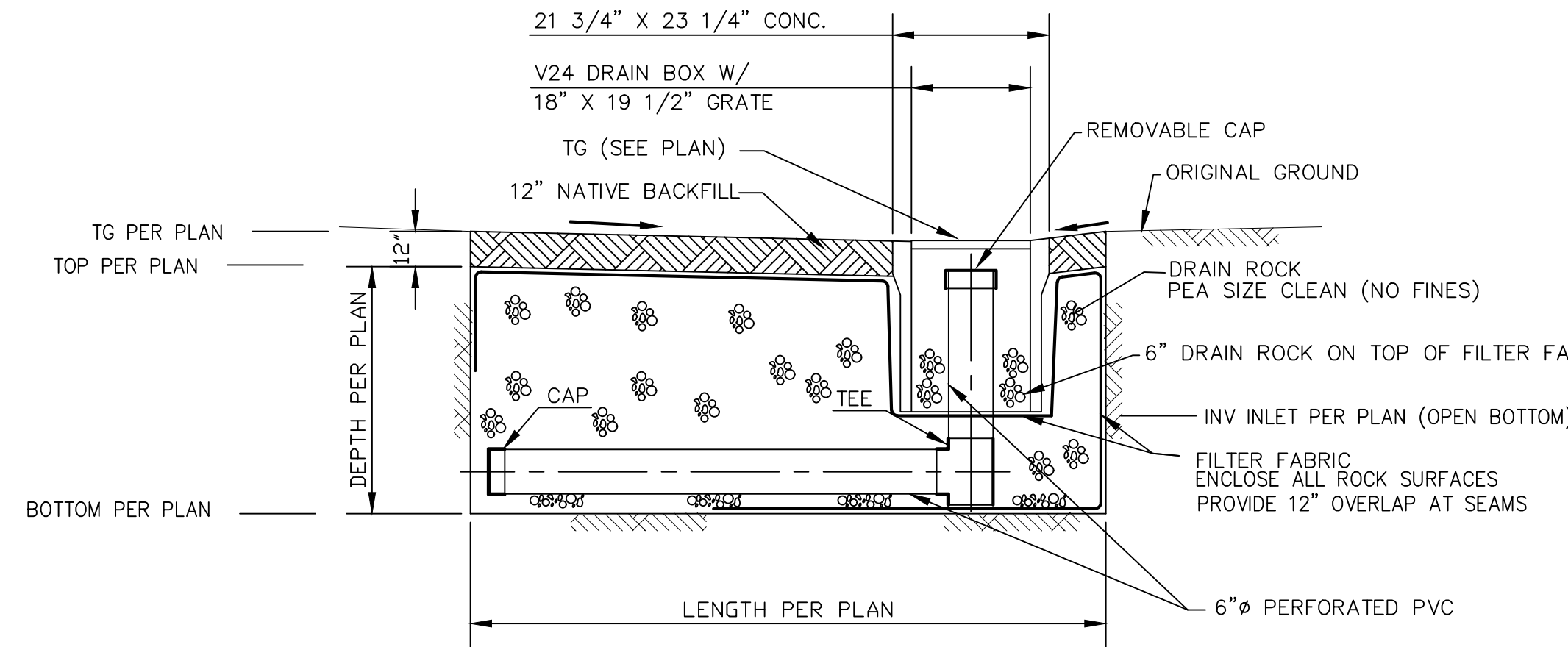
**SUBDRAIN TRENCH DETAIL**  
N.T.S.



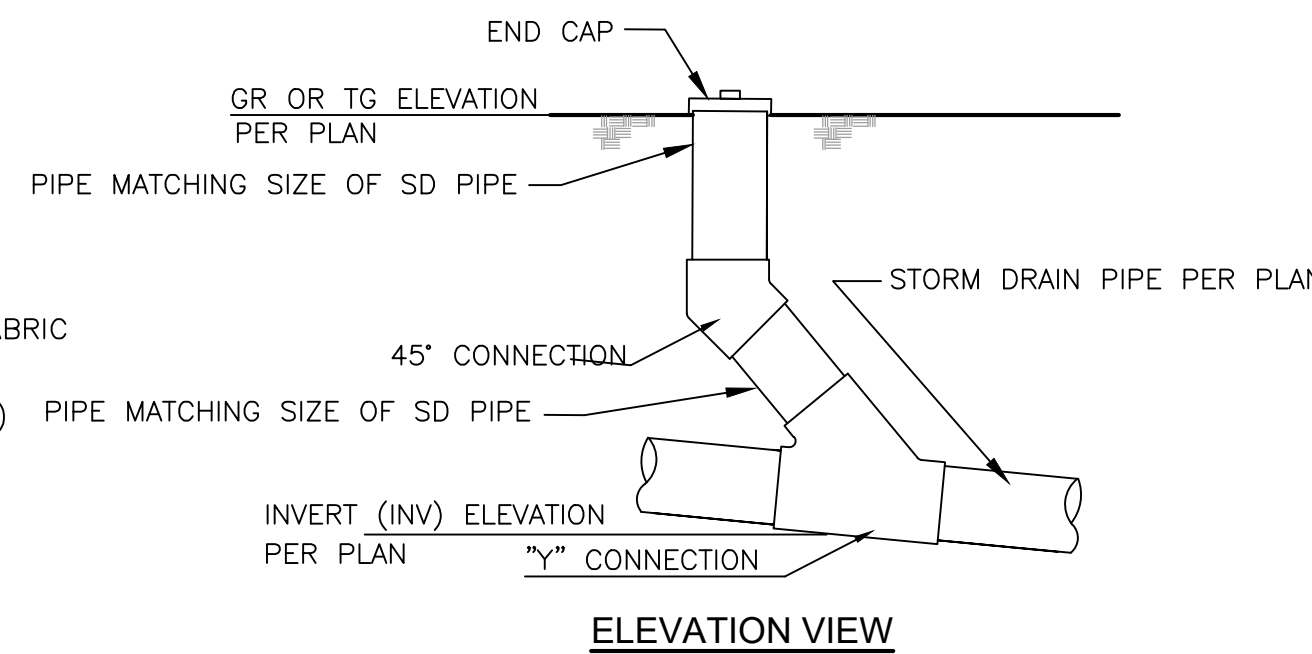
**INLET WITH DRY WELL**  
N.T.S.



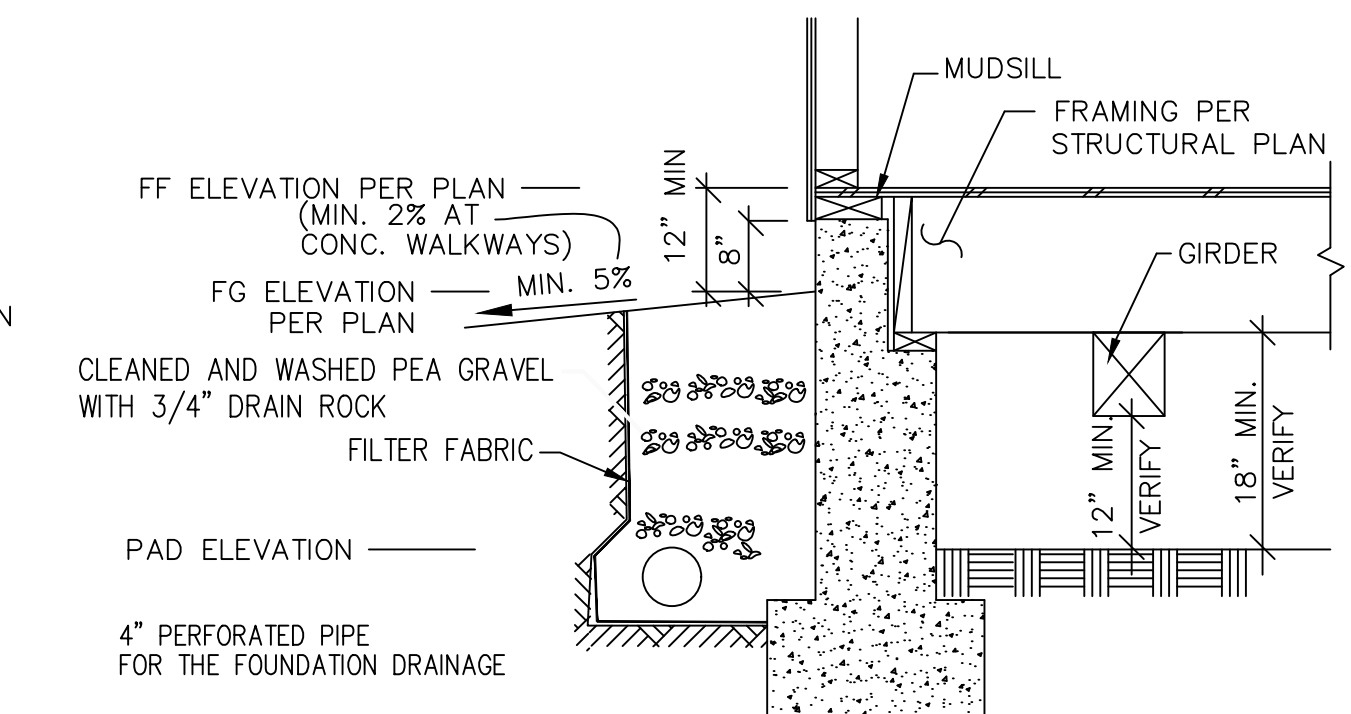
**SANITARY SEWER BACKFLOW PREVENTER DETAIL**  
N.T.S.



**INFILTRATION DEVICE**  
ELEVATION VIEW- NTS

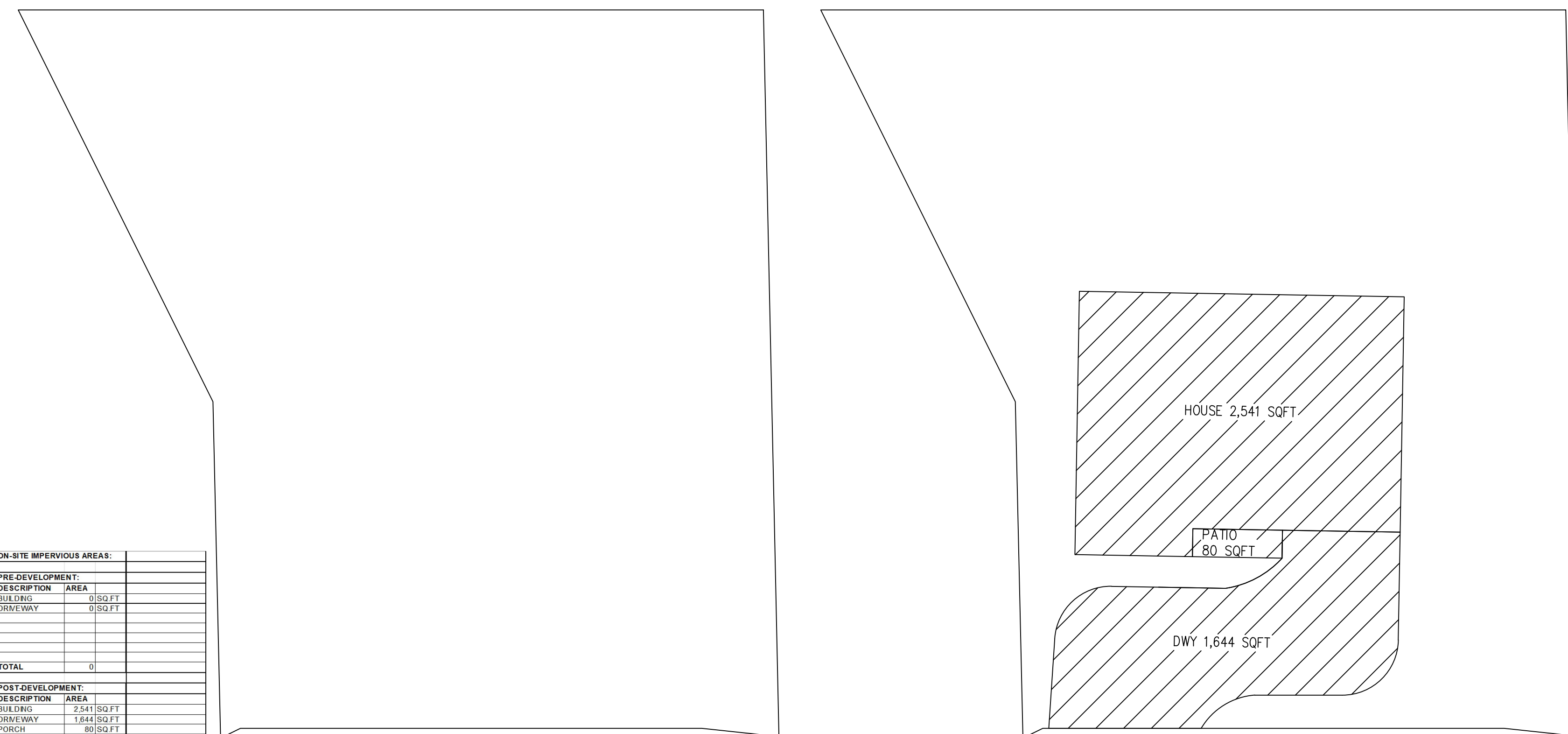


**STORM DRAIN CLEANOUT DETAIL**  
N.T.S.



**RAISED FOUNDATION CONCEPTUAL DETAIL**  
N.T.S.

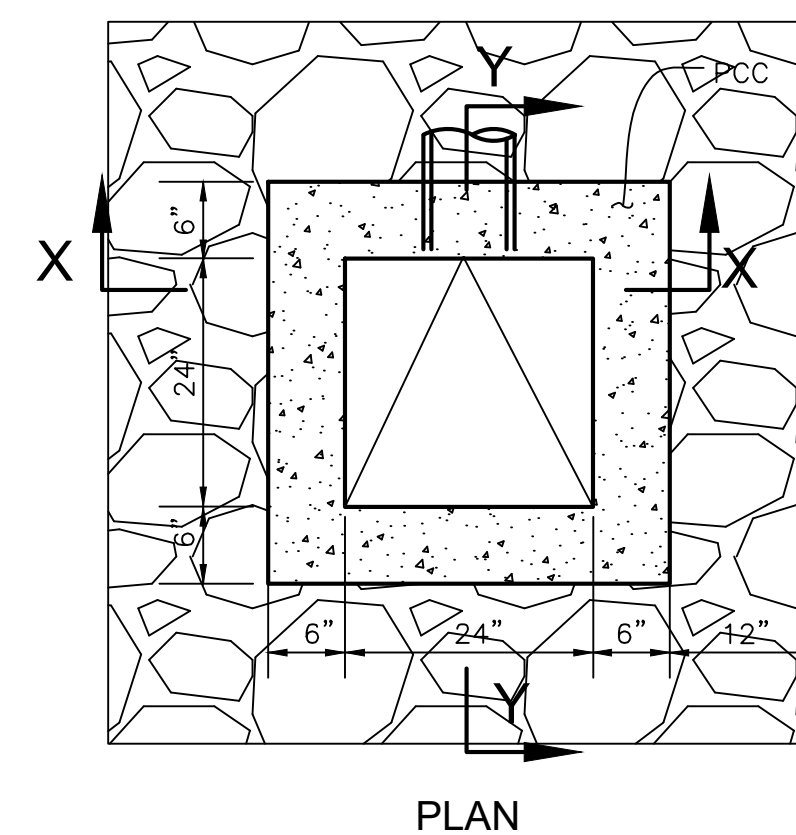
**PERVIOUS AND IMPERVIOUS AREA**  
N.T.S.



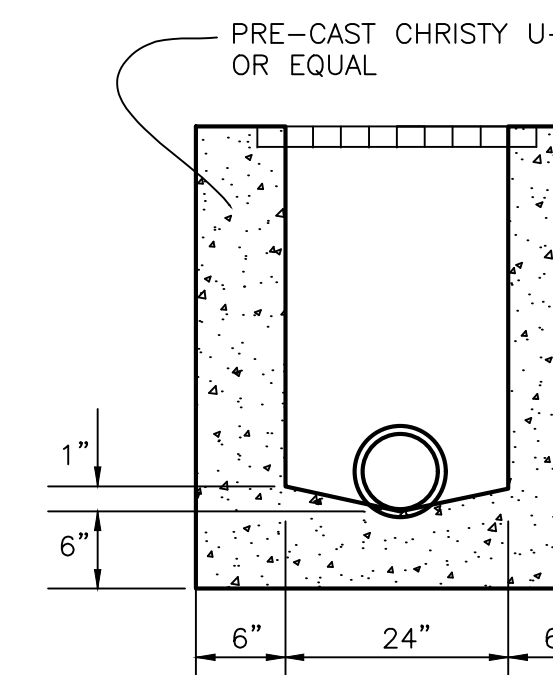
EXISTING IMPERVIOUS AREA  
TOTAL = 0 SQFT

PROPOSED IMPERVIOUS AREA  
TOTAL = 4,265 SQFT

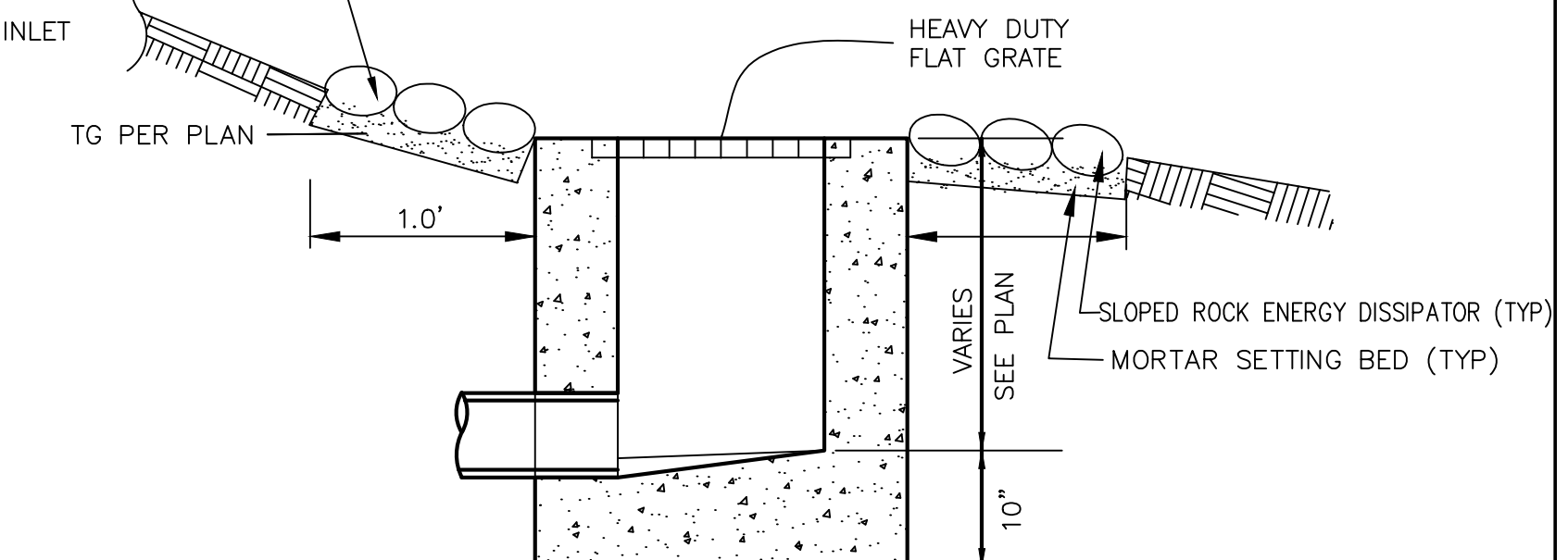
ON-SITE IMPERVIOUS AREAS:	
DESCRIPTION	AREA
BUILDING	0 SQFT
DRIVEWAY	0 SQFT
TOTAL	0
POST-DEVELOPMENT:	
DESCRIPTION	AREA
BUILDING	2,541 SQFT
DRIVEWAY	1,644 SQFT
PORCH	80 SQFT
TOTAL	4,265
TOTAL CHANGE	4,265



PLAN

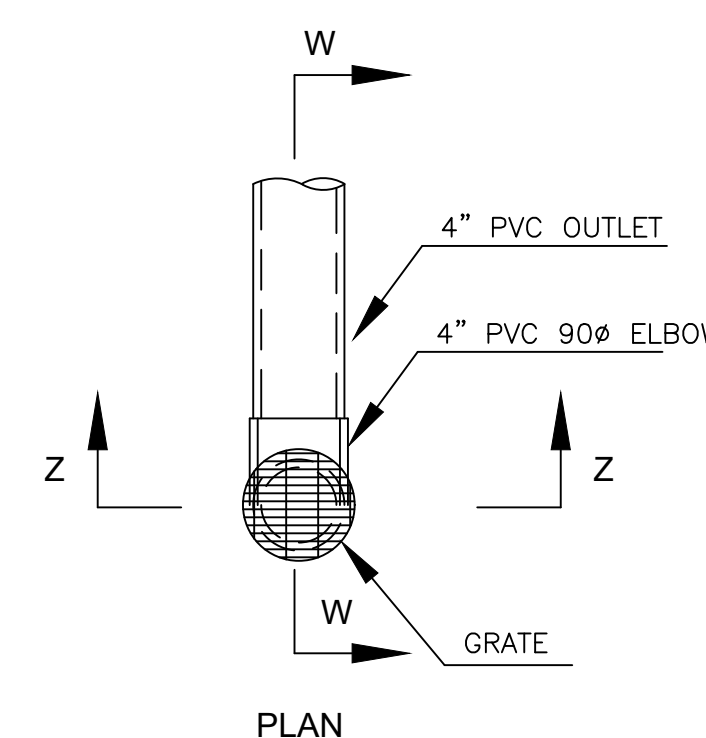


SECTION X-X

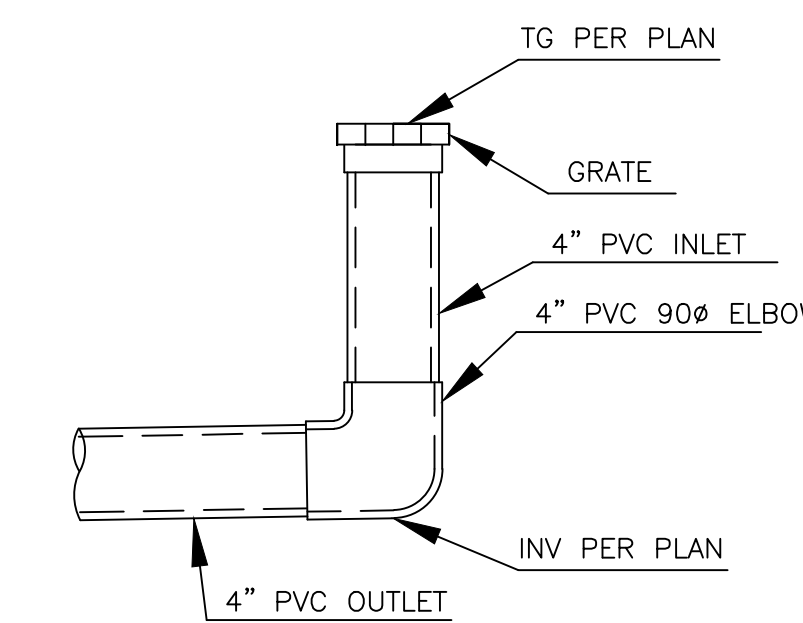


SECTION Y-Y

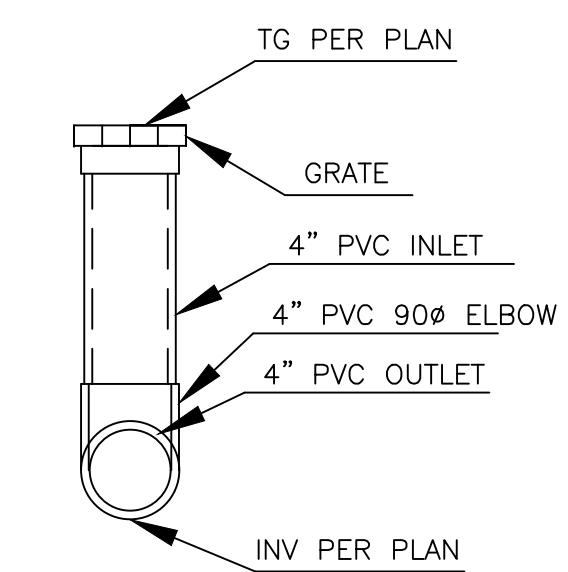
**STORM DRAIN INLET**  
N.T.S.



PLAN



SECTION W-W



SECTION Z-Z

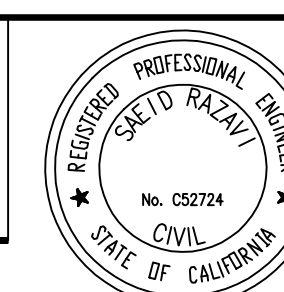
**STORM DRAIN AREA DRAIN**  
N.T.S.

**SMP ENGINEERS**  
CIVIL ENGINEERS—LAND SURVEYORS  
1534 Carob Lane Los Altos, CA 94024  
Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS:

**GRADING AND DRAINAGE PLANS**  
**DETAILS**

Scale:  
Prepared by: S.P.  
Checked by: S.R.  
Date: 08/15/2024  
SMP PROJECT #: 223130



COUNTY OF SANTA CLARA  
NEW SINGLE FAMILY HOUSE  
15820 MIRADERO AVE., SAN JOSE, CA 95127

Sheet:  
**C-3**  
3 OF 7

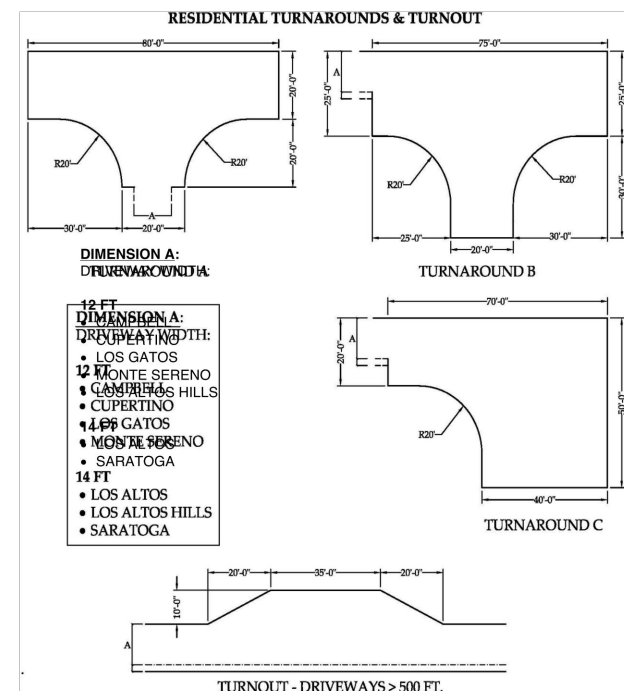
APPLICANT: MANUELA AGUIAR

COUNTY ROAD: MIRADERO

COUNTY RECORD NO.:

**X. TURNAROUNDS:**

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



**NOTE:** Turnarounds cannot exceed 5% in any one direction.

SDAS D-15A04.27.21 Driveway Turnaround 4 of 4

*Serving Santa Clara County and the communities of Campbell, Cupertino, Los Altos, Los Altos Hills, Los Gatos, Monte Sereno, and Saratoga.*

**PLAN**

**SECTION A-A WITH CULVERT**

**SECTION A-A WITH VALLEY GUTTER**

**SECTION A-A WITH SLOTTED DRAIN (ALTERNATE)**

**NOTES**


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

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

**LEGEND**

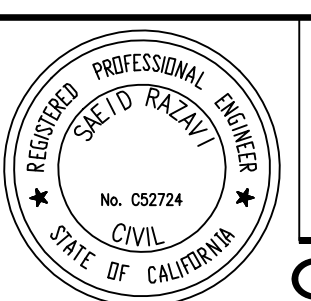
(E) Existing  
 EP Edge of pavement  
 (N) New  
 ROW Right of way  
 W = 12' Min. (Driveway width)  
 Z = 92' Min. or W+60'  
 Y = 32' Min. or W+20' (Driveway approach)

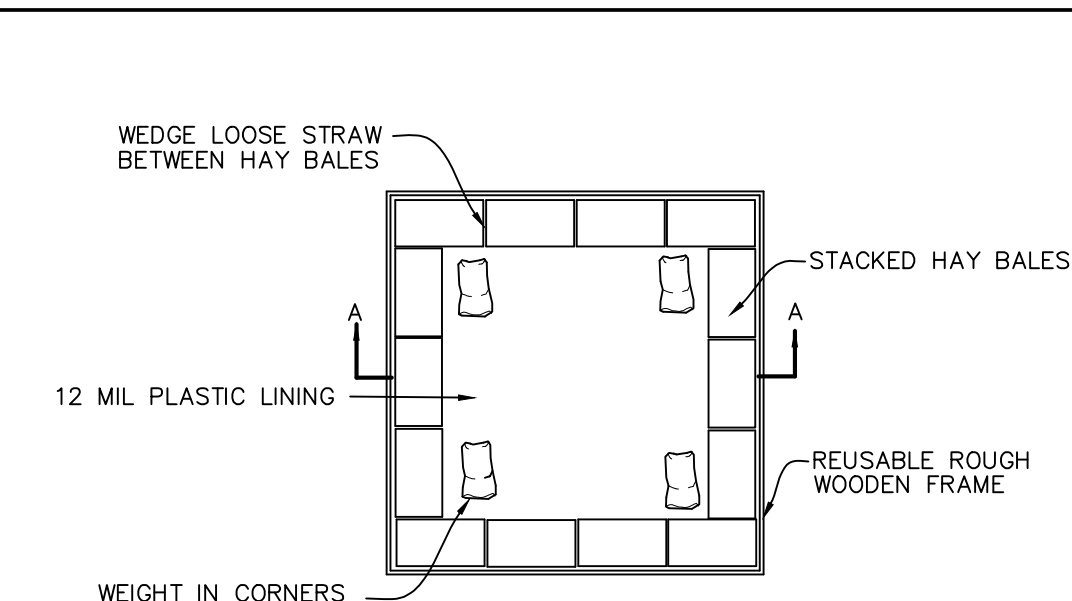
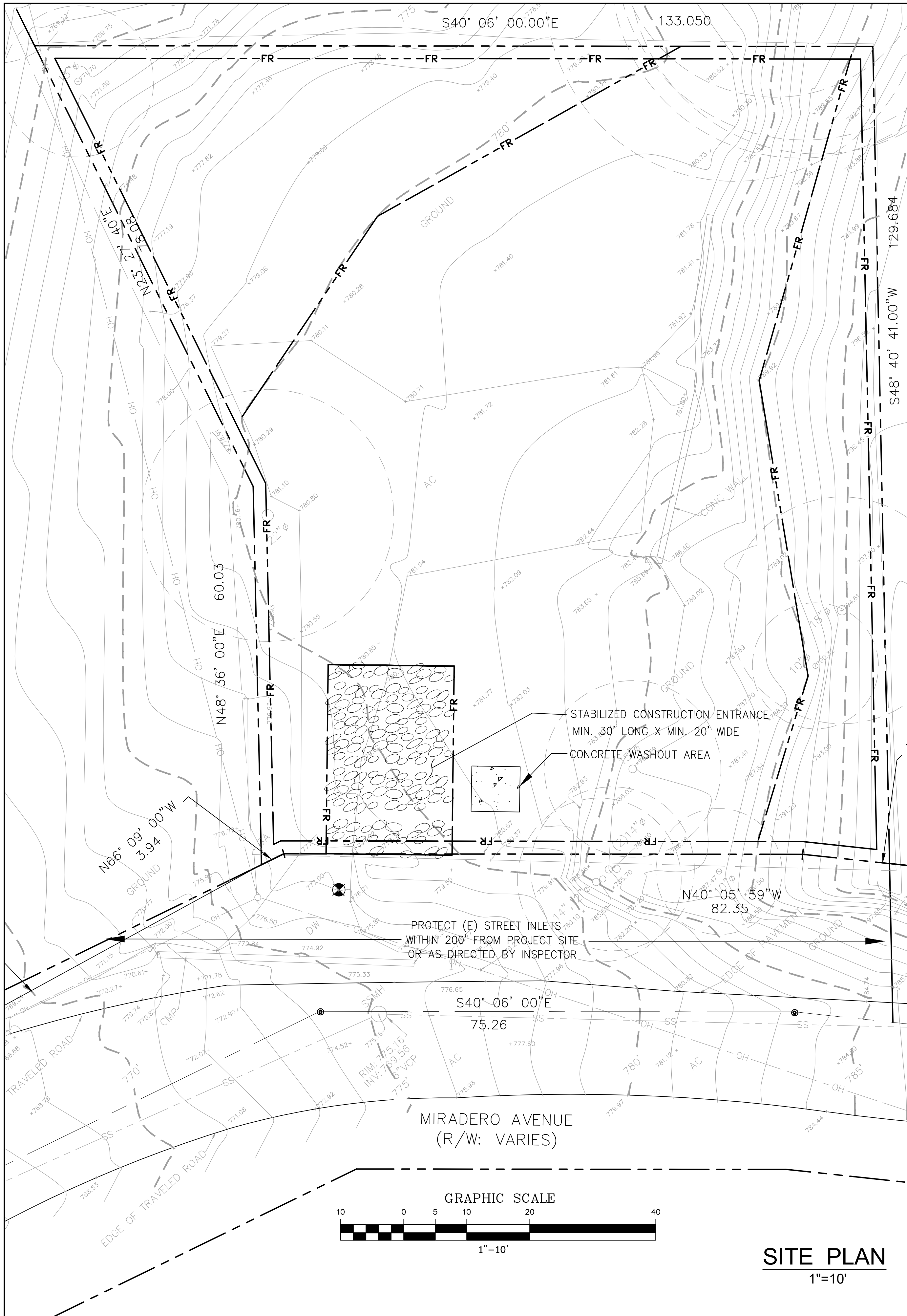
**M**ETRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT		STANDARD DETAILS	
PFP 06/02/14 PFP 06/02/14 KV 06/30/14	SENIOR CIVIL ENGINEER 	RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE	B 4 1 of 2

REVISIONS:

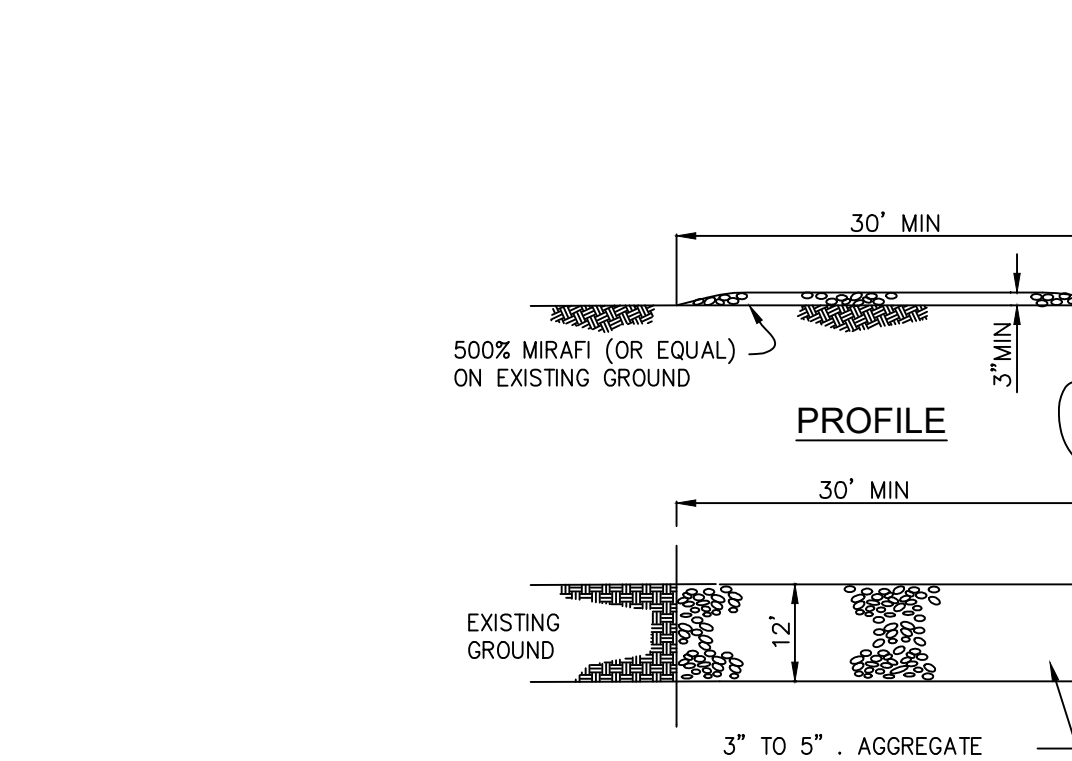
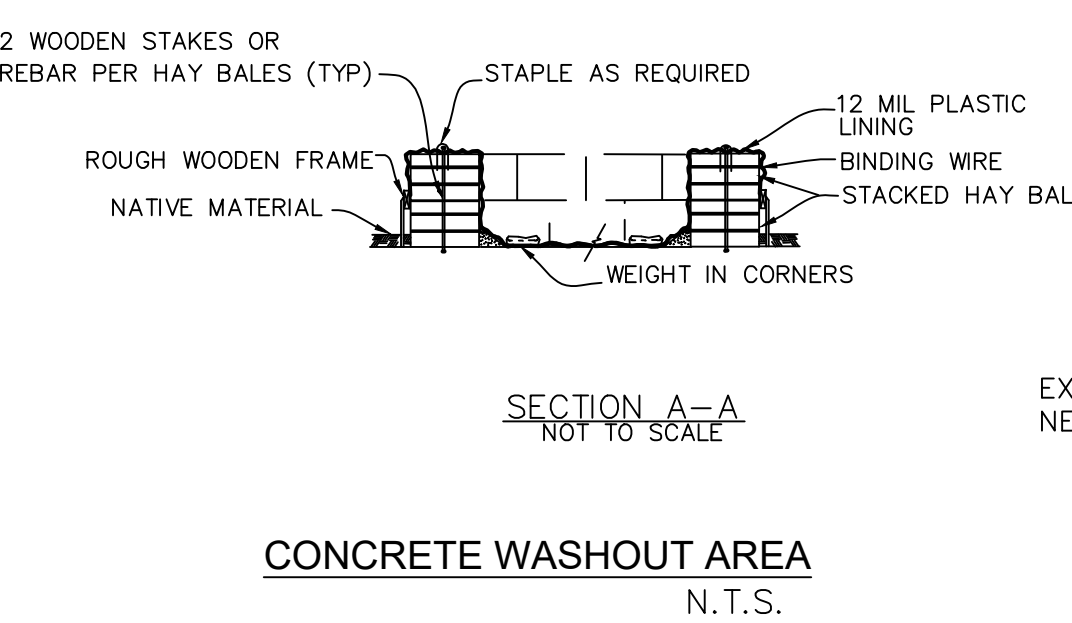
Scale:  
 Prepared by: S.P.  
 Checked by: S.R.  
 Date: 08/15/2024  
 SMP PROJECT #: 2.231.30





**FIBER ROLL NOTES**

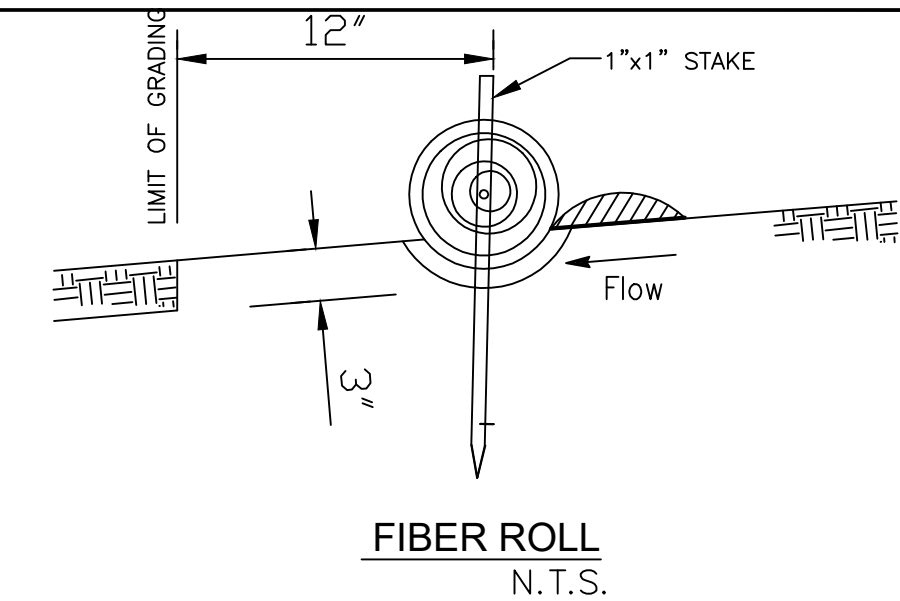
1. Place fiber roll in key trench 3" deep and place excavated soil on uphill or flow side of the roll.
2. On slopes and hillsides, fiber rolls shall be abutted at the ends and not overlapped. Place alternate stakes on both sides of the roll, every 6'.
3. Install fiber roll 12" from limit of grading.



**Maintenance**

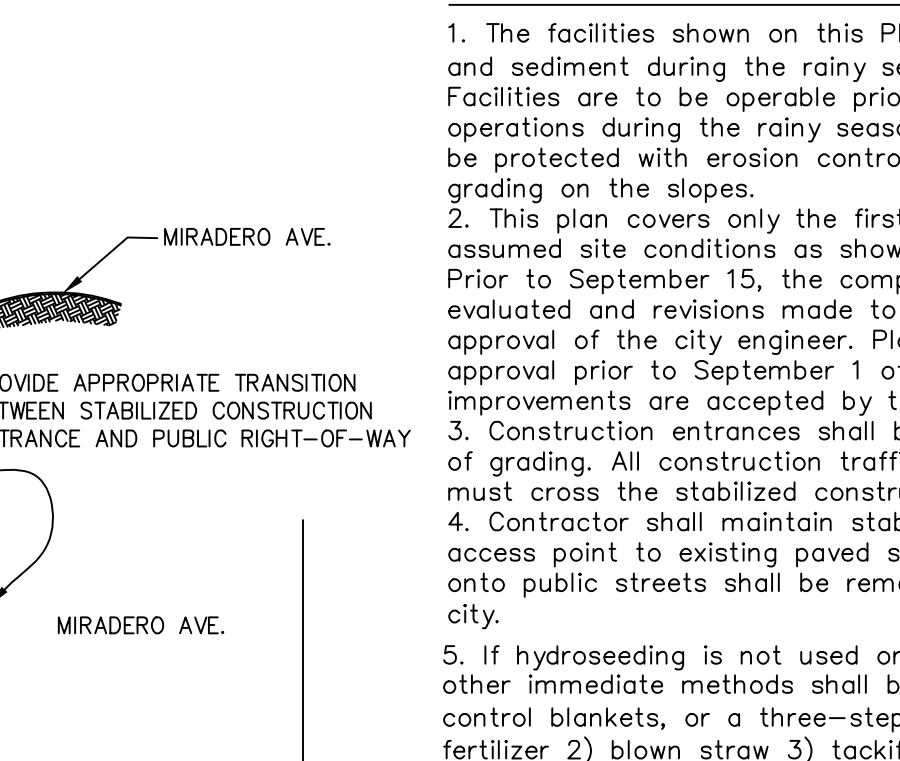
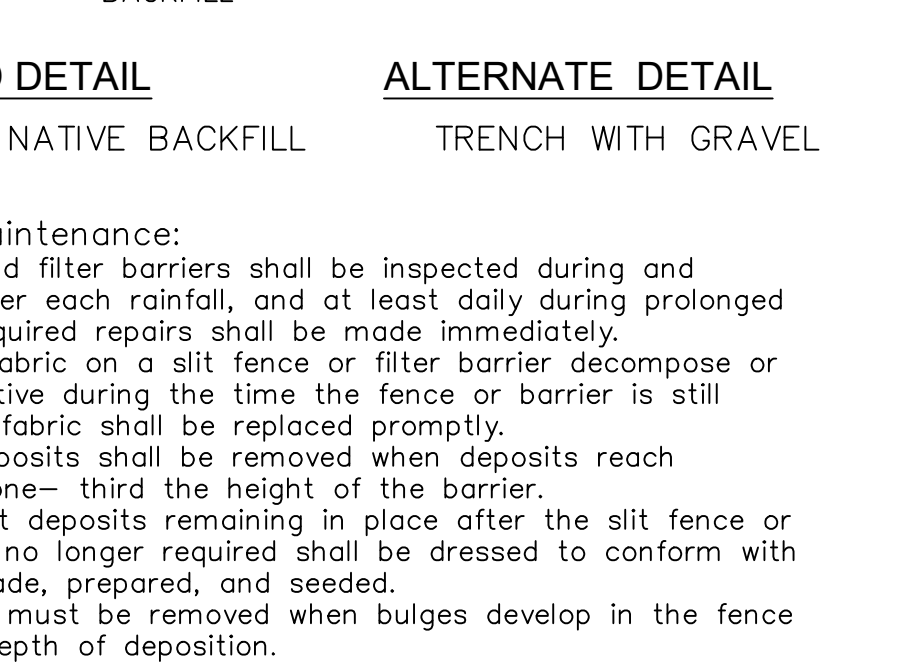
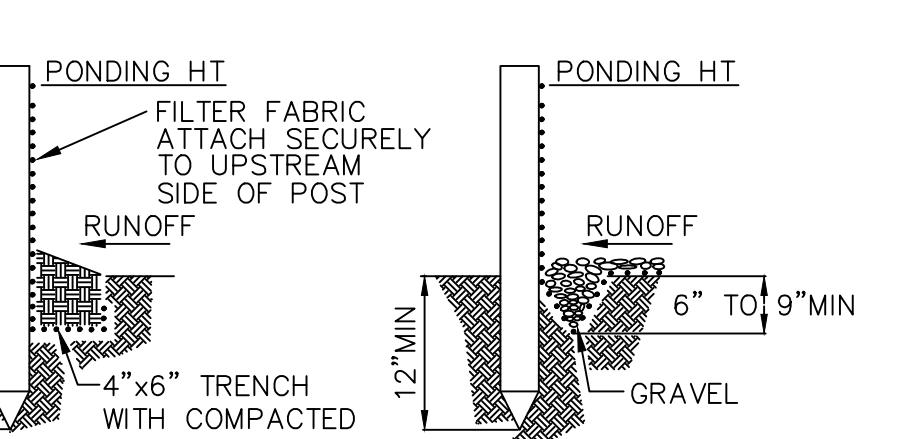
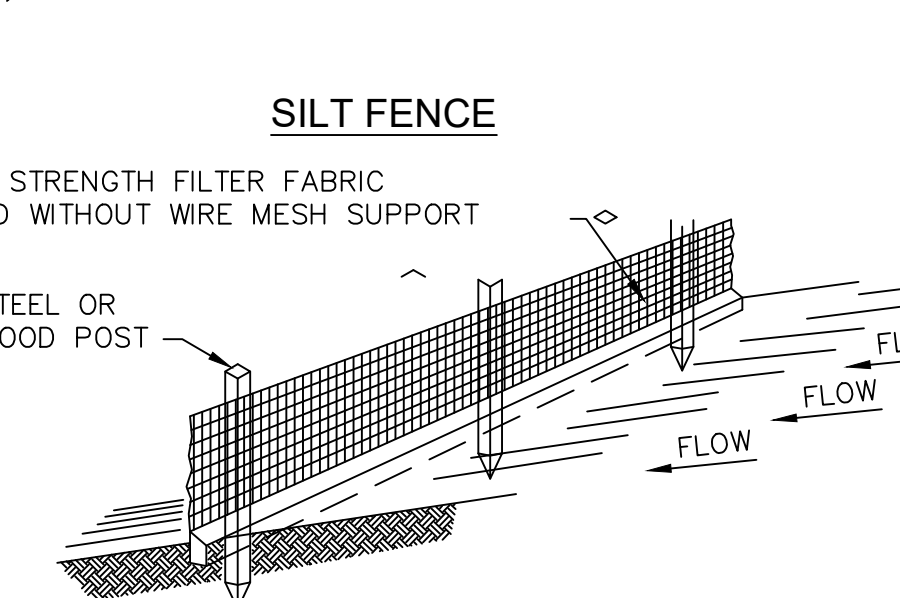
- The entrance shall be maintained in a condition that will prevent tracking or flowing sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand, and repair and/or clean out any measures used to trap sediment.
- All sediment spilled, dropped, washed, or tracked onto public rights-of-way shall be removed immediately.
- When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. This shall be done on an area stabilized with crushed stone, which drains into an approved sediment trap or sediment basin.

**STABILIZED CONSTRUCTION ENTRANCE (TO BE MAINTAINED)**



**FIBER ROLL NOTES**

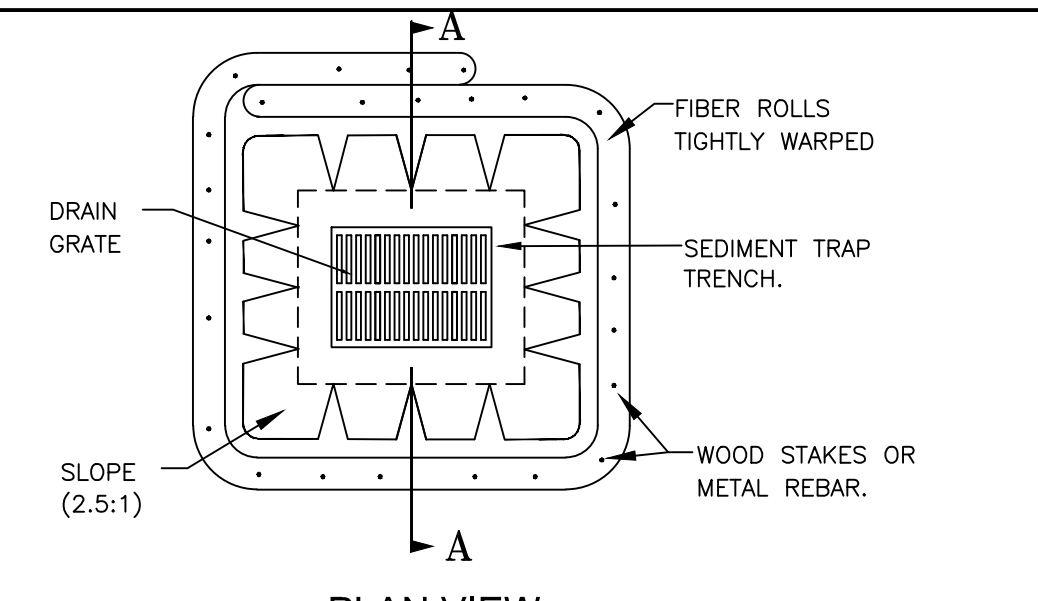
1. Place fiber roll in key trench 3" deep and place excavated soil on uphill or flow side of the roll.
2. On slopes and hillsides, fiber rolls shall be abutted at the ends and not overlapped. Place alternate stakes on both sides of the roll, every 6'.
3. Install fiber roll 12" from limit of grading.



**Maintenance**

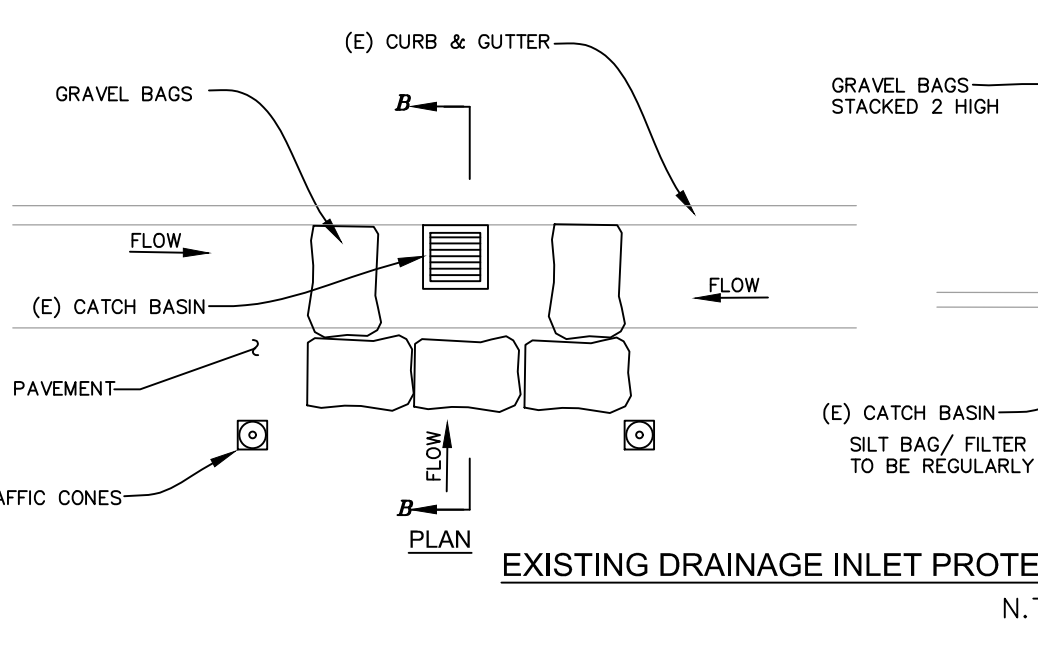
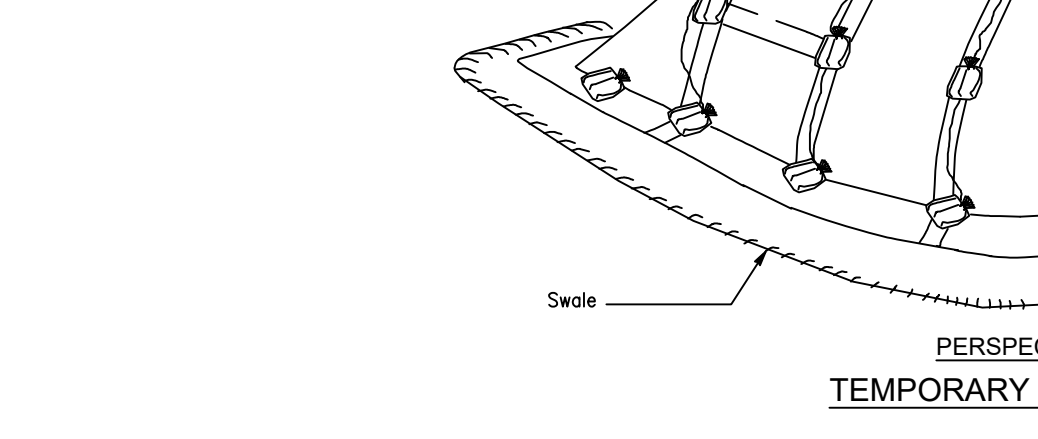
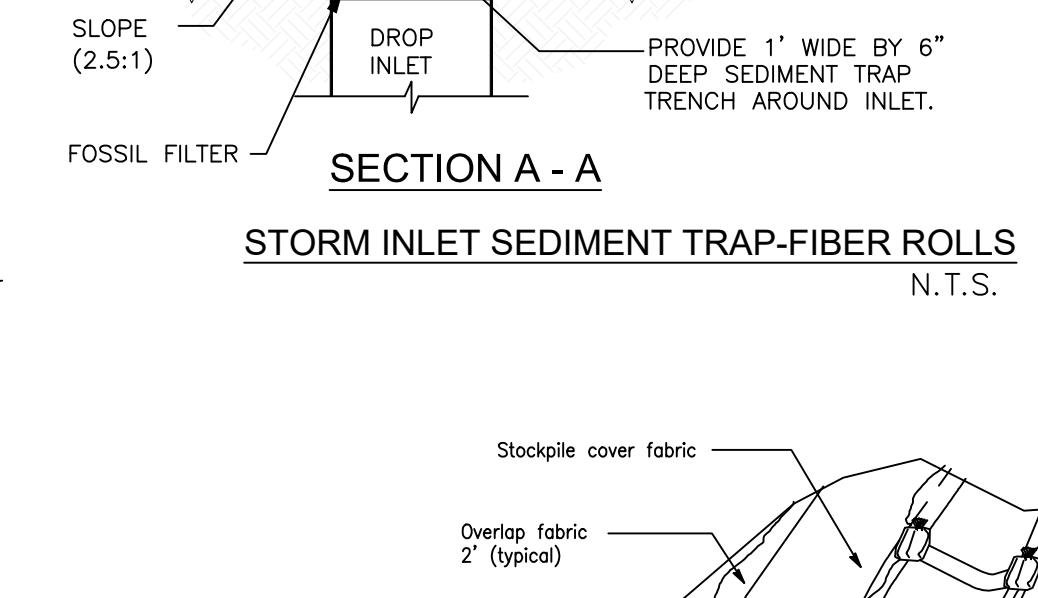
- The entrance shall be maintained in a condition that will prevent tracking or flowing sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand, and repair and/or clean out any measures used to trap sediment.
- All sediment spilled, dropped, washed, or tracked onto public rights-of-way shall be removed immediately.
- When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. This shall be done on an area stabilized with crushed stone, which drains into an approved sediment trap or sediment basin.

**STABILIZED CONSTRUCTION ENTRANCE (TO BE MAINTAINED)**



**NOTES:**

1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROX. 8" DIA. AND 20 - 30 FT. LONG.
2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.
4. FOSSIL FILTERS SHALL BE INCORPORATED IN ALL CATCH BASINS AND FIELD INLETS 24" AND LARGER AND SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. FOSSIL FILTERS ARE AVAILABLE FROM KRISTAR ENTERPRISES INC., 422 LARKFIELD CENTER, SUITE 271, SANTA ROSA, CA 95403, PHONE (800) 578-8819.



**EROSION AND SEDIMENT CONTROL NOTES AND MEASURES**

1. The facilities shown on this Plan are designed to control Erosion and sediment during the rainy season, October 15 to April 15. Facilities are to be operable prior to October 1 of any year. Grading operations during the rainy season, which leave denuded slopes shall be protected with erosion control measures immediately following grading on the slopes.
2. This plan covers only the first winter following grading with assumed site conditions as shown on the Erosion Control Plan. Prior to September 15, the completion of site improvement shall be evaluated and revisions made to this plan as necessary with the approval of the city engineer. Plans are to be resubmitted for city approval prior to September 1 of each subsequent year until site improvements are accepted by the city.
3. Construction entrances shall be installed prior to commencement of grading. All construction traffic entering onto the paved roads must cross the stabilized construction entrances.
4. Contractor shall maintain stabilized entrance at each vehicle access point to existing paved streets. Any mud or debris tracked onto public streets shall be removed daily and as required by the city.
5. If hydroseeding is not used or is not effectively 10/10, then other immediate methods shall be implemented, such as Erosion control blankets, or a three-step application of: 1) seed, mulch, fertilizer 2) blown straw 3) tackifier and mulch.
6. Inlet protection shall be installed at open inlets to prevent sediment from entering the storm drain system. Inlets not used in conjunction with erosion control are to be blocked to prevent entry of sediment.
7. Lots with houses under construction will not be hydroseeded. Erosion protection for each lot with a house under construction shall conform to the Typical Lot Erosion Control Detail shown on this sheet.
8. This erosion and sediment control plan may not cover all the situations that may arise during construction due to unanticipated field conditions. Variations and additions may be made to this plan in the field. Notify the city representative of any field changes.
9. This plan is intended to be used for interim erosion and sediment control only and is not to be used for final elevations or permanent improvements.
10. Contractor shall be responsible for monitoring erosion and sediment control prior, during, and after storm events.

**MAINTENANCE NOTES**

1. Maintenance is to be performed as follows:
  - A. Repair damages caused by soil erosion or construction at the end of each working day.
  - B. Swales shall be inspected periodically and maintained as needed.
  - C. Sediment traps, berms, and swales are to be inspected after each storm and repairs made as needed.
  - D. Sediment shall be removed and sediment traps restored to its original dimensions when sediment has accumulated to a depth of one foot.
  - E. Sediment removed from trap shall be deposited in a suitable area and in such a manner that it will not erode.
  - F. Rills and gullies must be repaired.
2. All existing drainage inlets on St. George Lane within the limit of the project shall be protected with sand bags during construction. See detail. Sand bag inlet protection shall be cleaned out whenever sediment depth is one half the height of one sand bag.
3. Existing concrete ditch sediment trap shall be cleaned out routinely during construction.

**EROSION AND SEDIMENT CONTROL NOTES AND MEASURES**

1. The facilities shown on this Plan are designed to control Erosion and sediment during the rainy season, October 15 to April 15. Facilities are to be operable prior to October 1 of any year. Grading operations during the rainy season, which leave denuded slopes shall be protected with erosion control measures immediately following grading on the slopes.
2. This plan covers only the first winter following grading with assumed site conditions as shown on the Erosion Control Plan. Prior to September 15, the completion of site improvement shall be evaluated and revisions made to this plan as necessary with the approval of the city engineer. Plans are to be resubmitted for city approval prior to September 1 of each subsequent year until site improvements are accepted by the city.
3. Construction entrances shall be installed prior to commencement of grading. All construction traffic entering onto the paved roads must cross the stabilized construction entrances.
4. Contractor shall maintain stabilized entrance at each vehicle access point to existing paved streets. Any mud or debris tracked onto public streets shall be removed daily and as required by the city.
5. If hydroseeding is not used or is not effectively 10/10, then other immediate methods shall be implemented, such as Erosion control blankets, or a three-step application of: 1) seed, mulch, fertilizer 2) blown straw 3) tackifier and mulch.
6. Inlet protection shall be installed at open inlets to prevent sediment from entering the storm drain system. Inlets not used in conjunction with erosion control are to be blocked to prevent entry of sediment.
7. Lots with houses under construction will not be hydroseeded. Erosion protection for each lot with a house under construction shall conform to the Typical Lot Erosion Control Detail shown on this sheet.
8. This erosion and sediment control plan may not cover all the situations that may arise during construction due to unanticipated field conditions. Variations and additions may be made to this plan in the field. Notify the city representative of any field changes.
9. This plan is intended to be used for interim erosion and sediment control only and is not to be used for final elevations or permanent improvements.
10. Contractor shall be responsible for monitoring erosion and sediment control prior, during, and after storm events.

**MAINTENANCE NOTES**

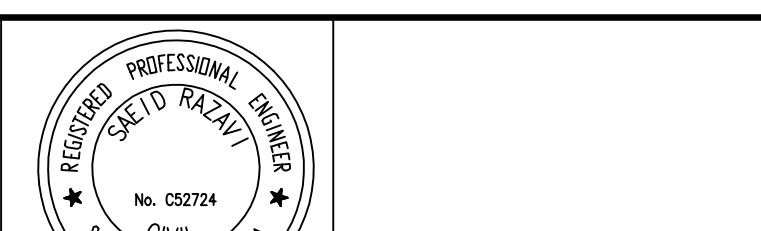
1. Maintenance is to be performed as follows:
  - A. Repair damages caused by soil erosion or construction at the end of each working day.
  - B. Swales shall be inspected periodically and maintained as needed.
  - C. Sediment traps, berms, and swales are to be inspected after each storm and repairs made as needed.
  - D. Sediment shall be removed and sediment traps restored to its original dimensions when sediment has accumulated to a depth of one foot.
  - E. Sediment removed from trap shall be deposited in a suitable area and in such a manner that it will not erode.
  - F. Rills and gullies must be repaired.
2. All existing drainage inlets on St. George Lane within the limit of the project shall be protected with sand bags during construction. See detail. Sand bag inlet protection shall be cleaned out whenever sediment depth is one half the height of one sand bag.
3. Existing concrete ditch sediment trap shall be cleaned out routinely during construction.

**SMP ENGINEERS**  
 CIVIL ENGINEERS—LAND SURVEYORS  
 1534 Carob Lane Los Altos, CA 94024  
 Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS:  
 APPLICANT: MANUELA AGUIAR

**GRADING AND DRAINAGE PLANS**  
**EROSION CONTROL PLAN**

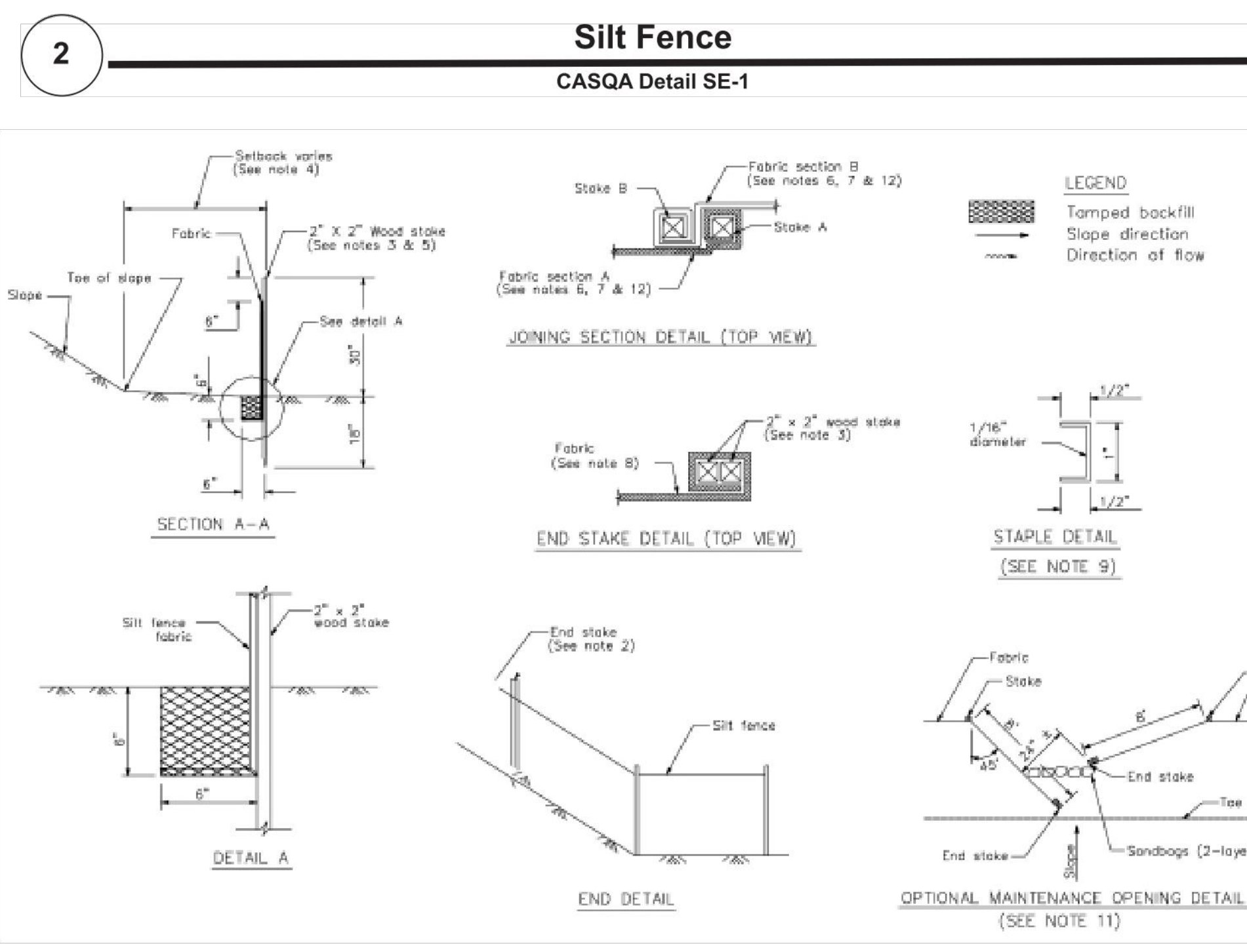
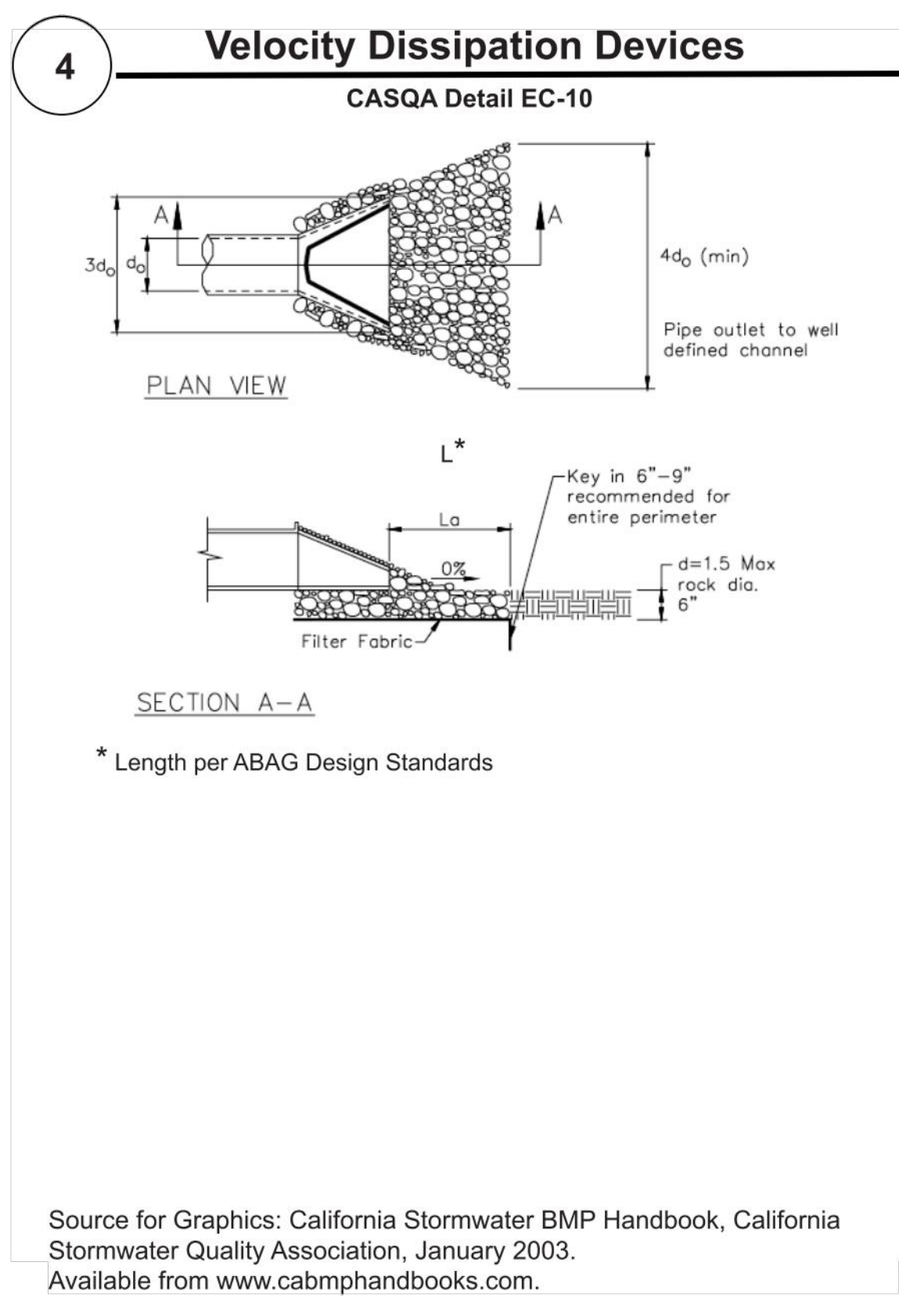
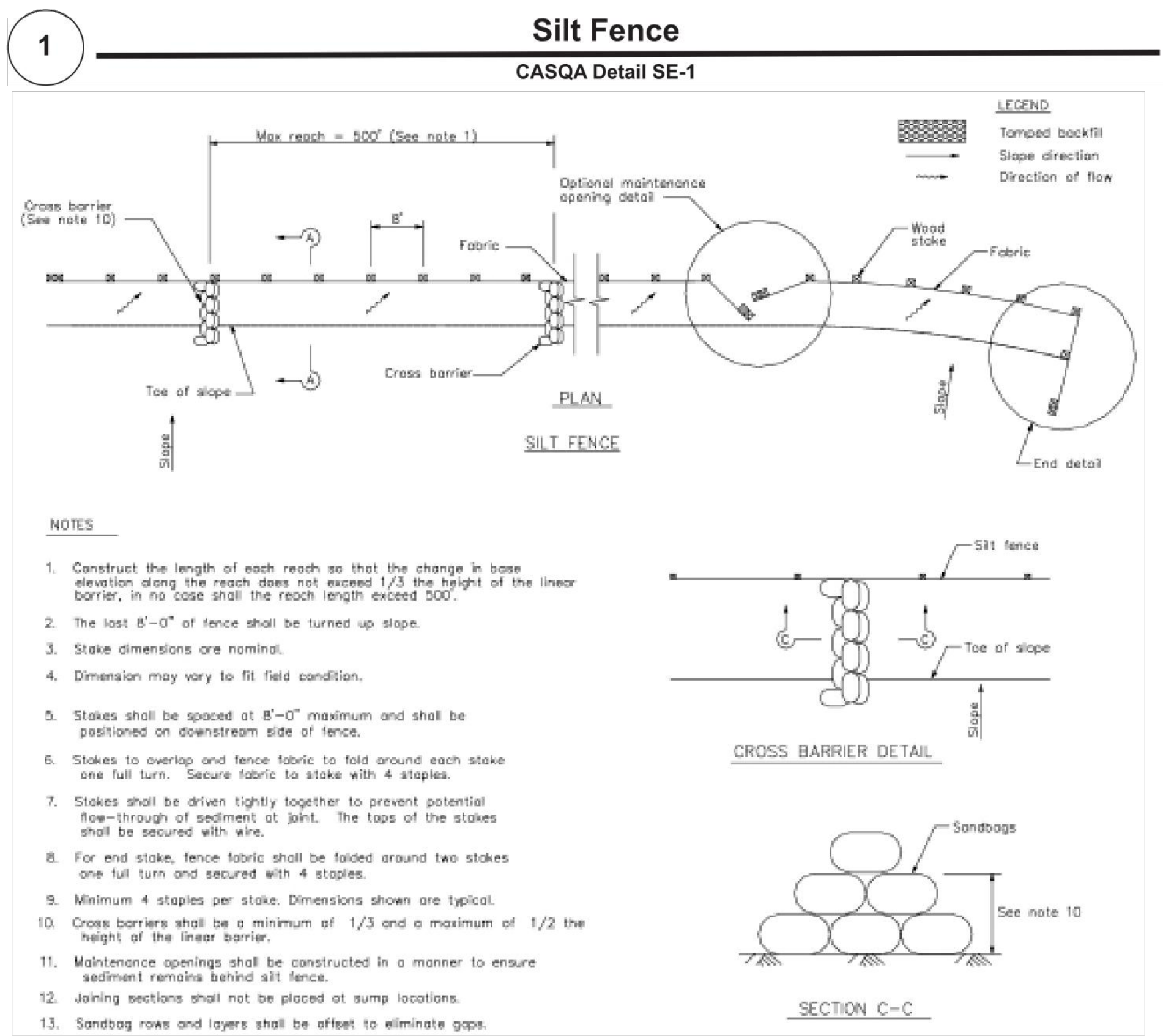
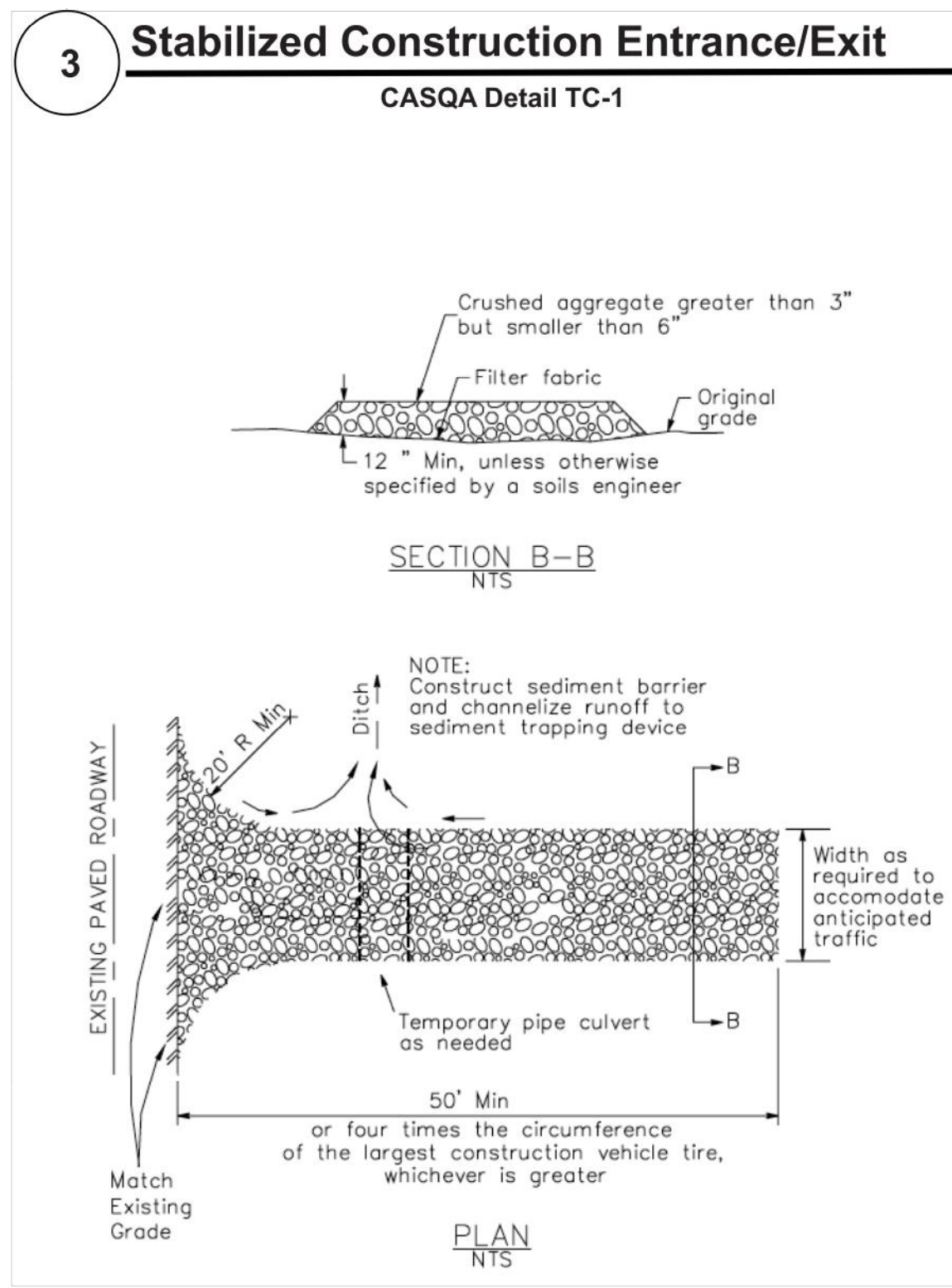
Scale: AS NOTED  
 Prepared by: S.P.  
 Checked by: S.R.  
 Date: 06/03/2024  
 SMP PROJECT #: 223130



**COUNTY OF SANTA CLARA**  
**NEW SINGLE FAMILY HOUSE**  
 15820 MIRADERO AVE., SAN JOSE, CA 95127

Sheet: **C-5**  
 5 OF 7

APPLICANT: MANUELA AGUIAR COUNTY ROAD: MIRADERO COUNTY RECORD NO.:



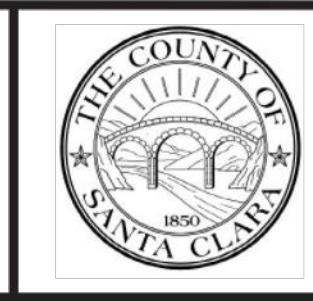
- #### STANDARD BEST MANAGEMENT PRACTICE NOTES
- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all 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 dust 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.

Project Information

## Best Management Practices and Erosion Control Details Sheet 1

### County of Santa Clara



**BMP-1**

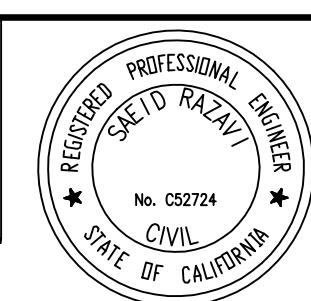
**SMP ENGINEERS**  
CIVIL ENGINEERS—LAND SURVEYORS  
1534 Carob Lane Los Altos, CA 94024  
Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS:

APPLICANT: MANUELA AGUIAR

GRADING AND DRAINAGE PLANS  
BMP-1, EROSION CONTROL DETAILS, NOTES

Scale:  
Prepared by: S.P.  
Checked by: S.R.  
Date: 08/15/2024  
SMP PROJECT #: 2.231.30



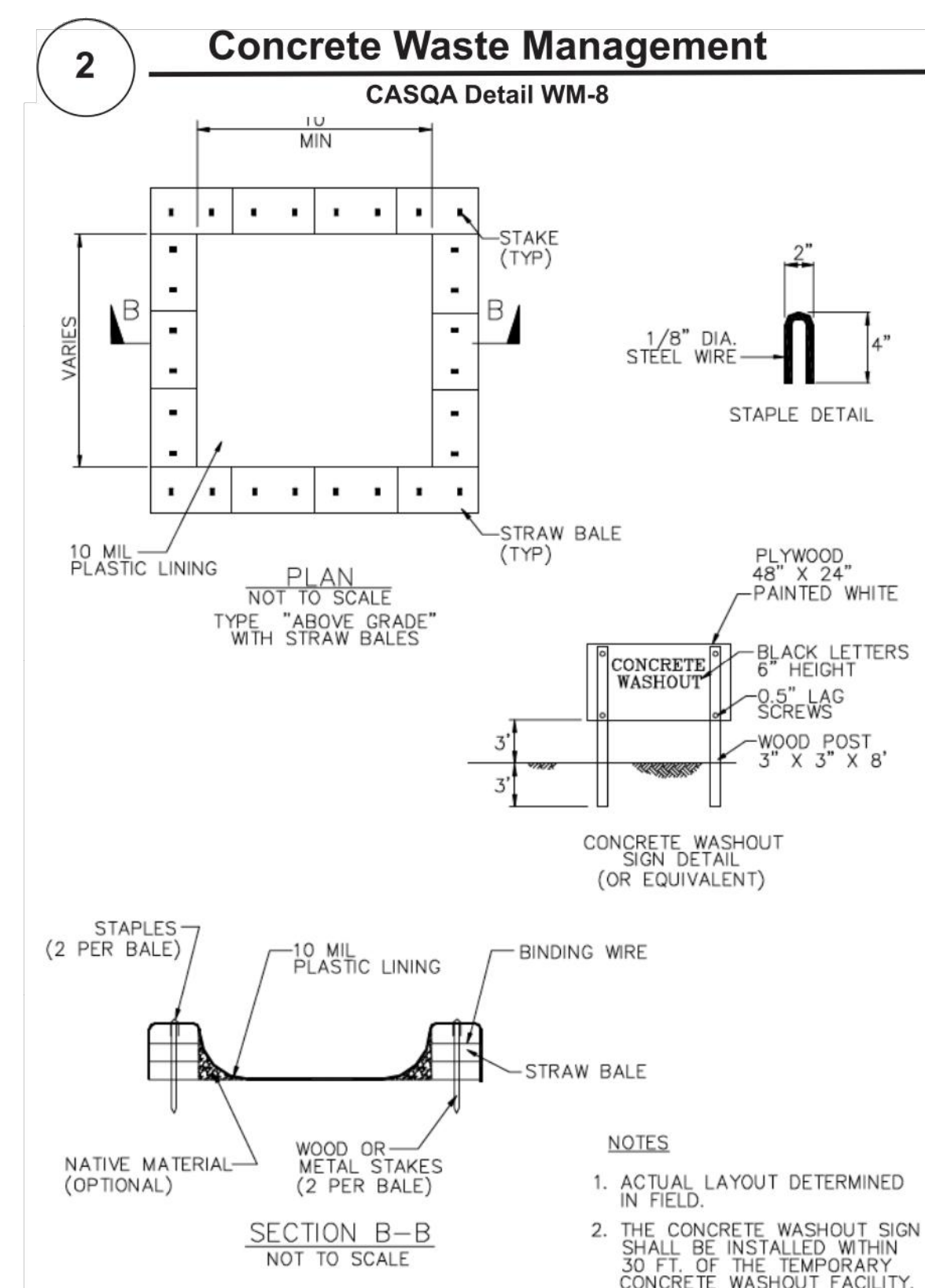
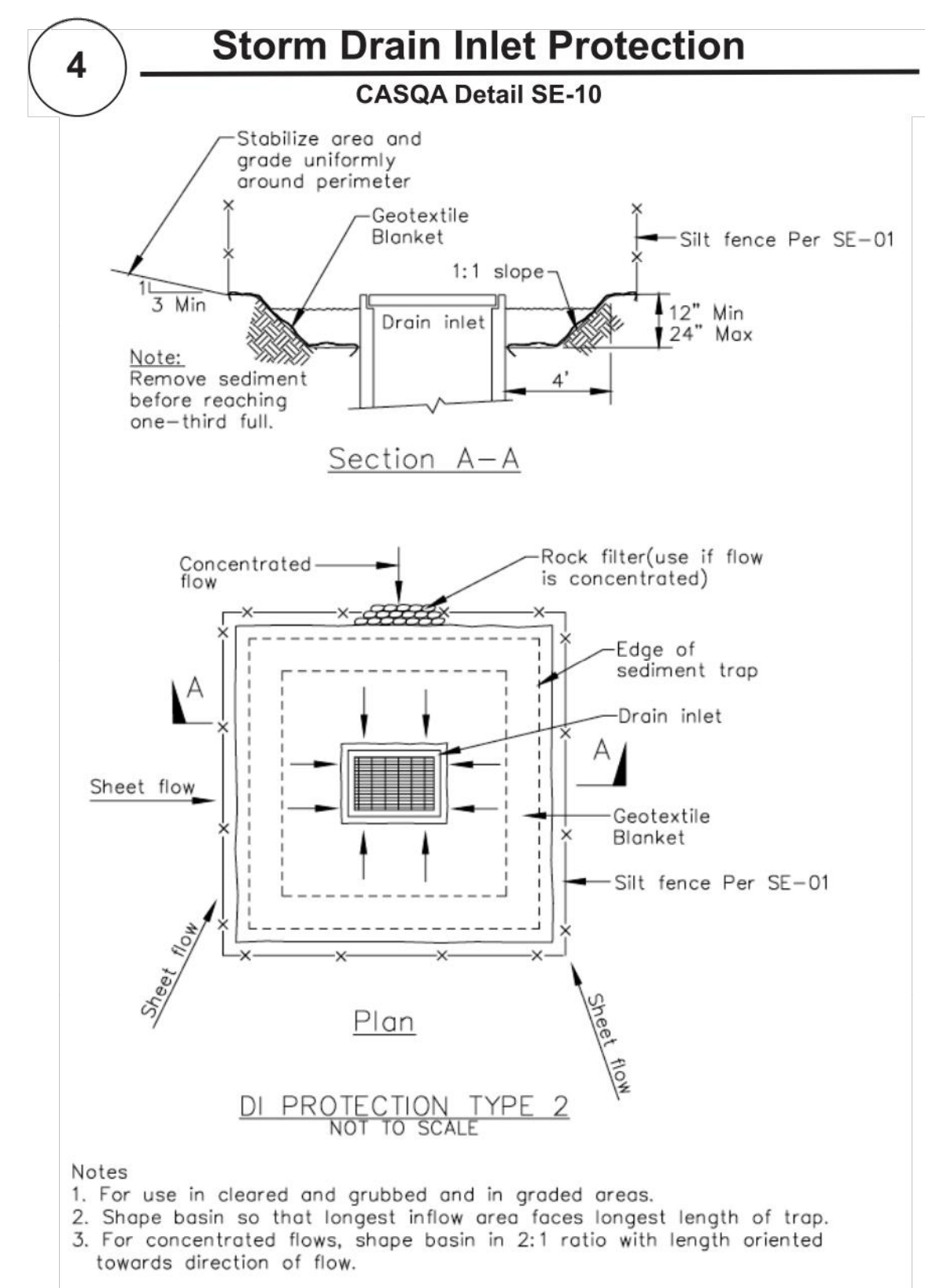
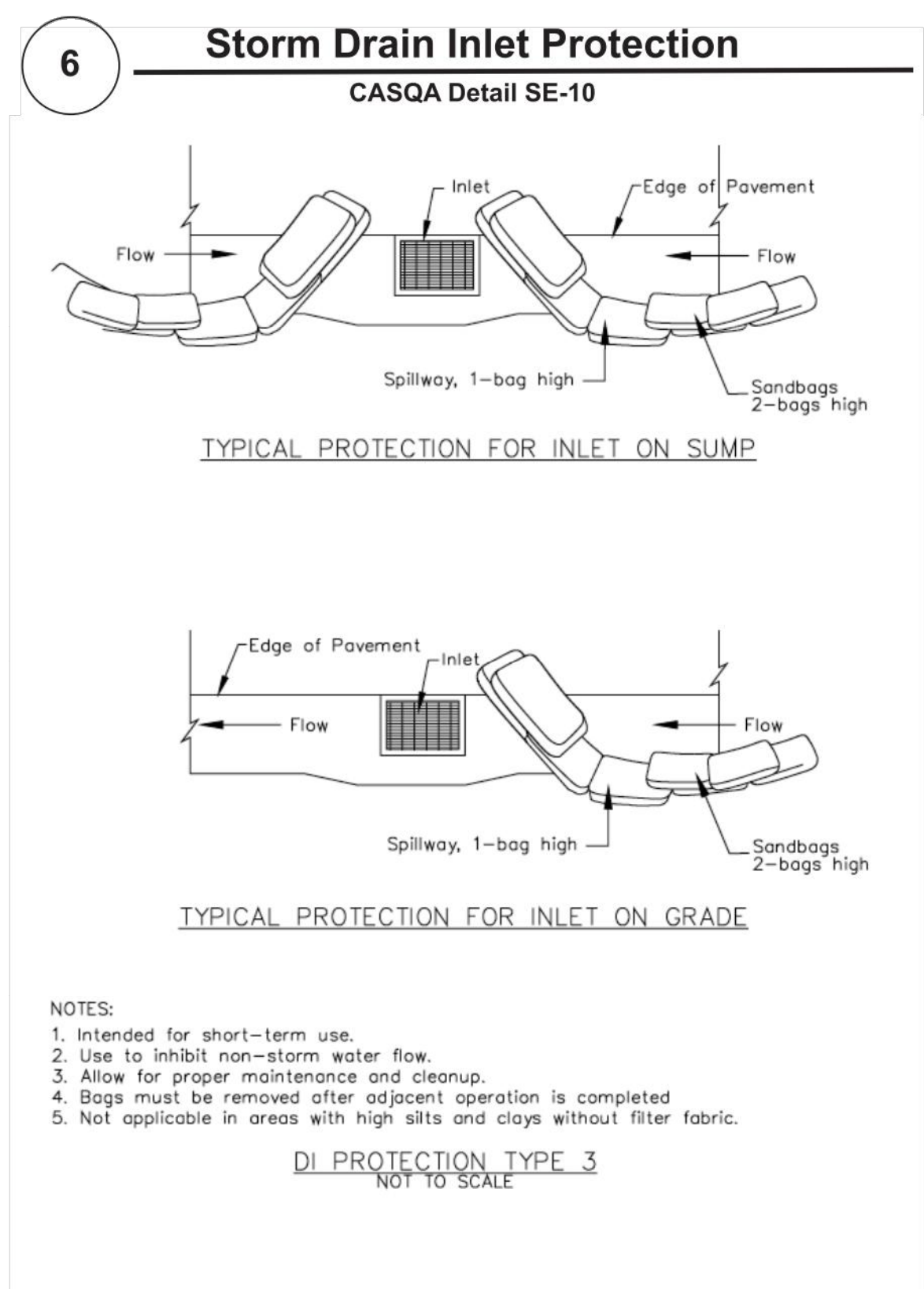
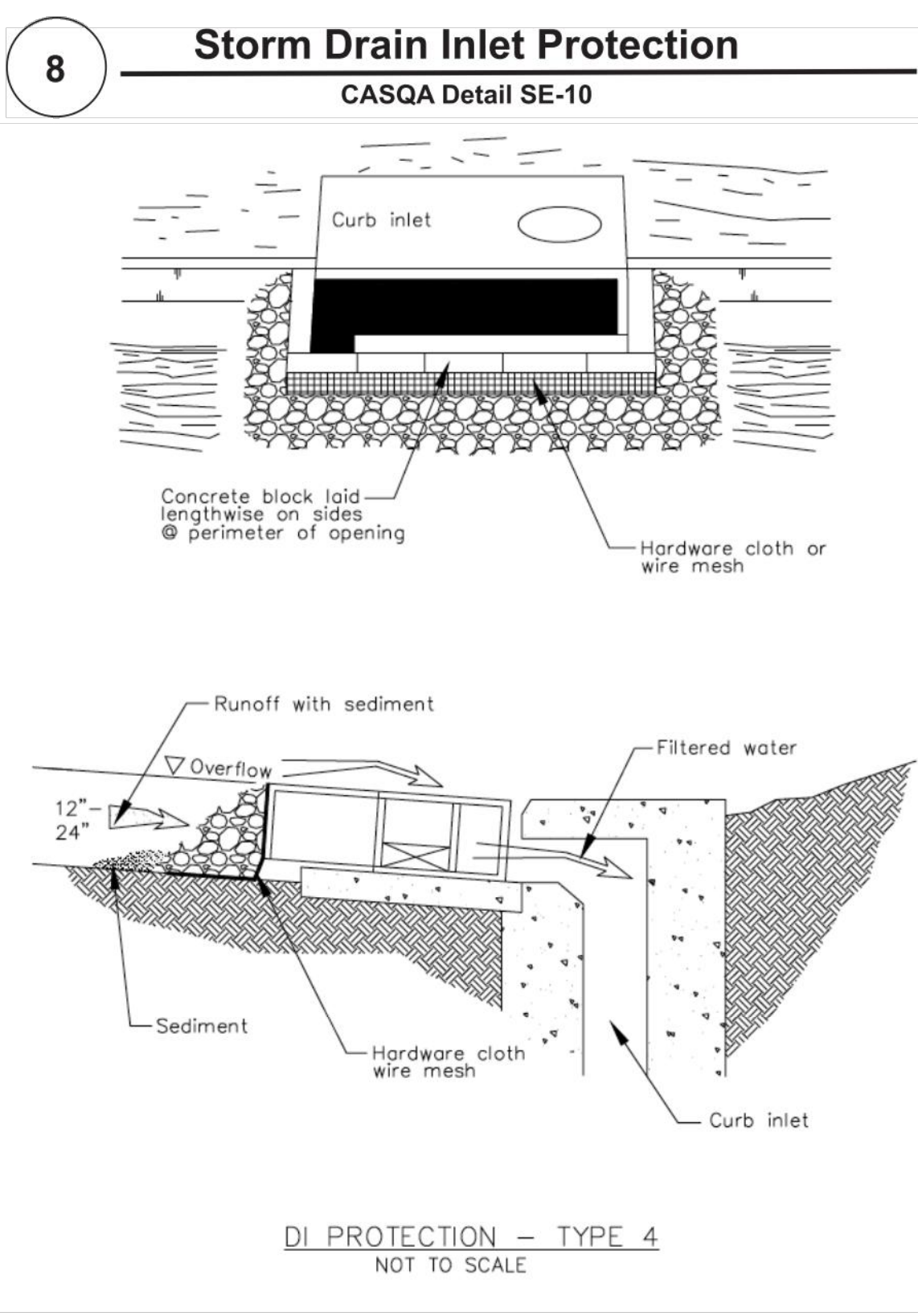
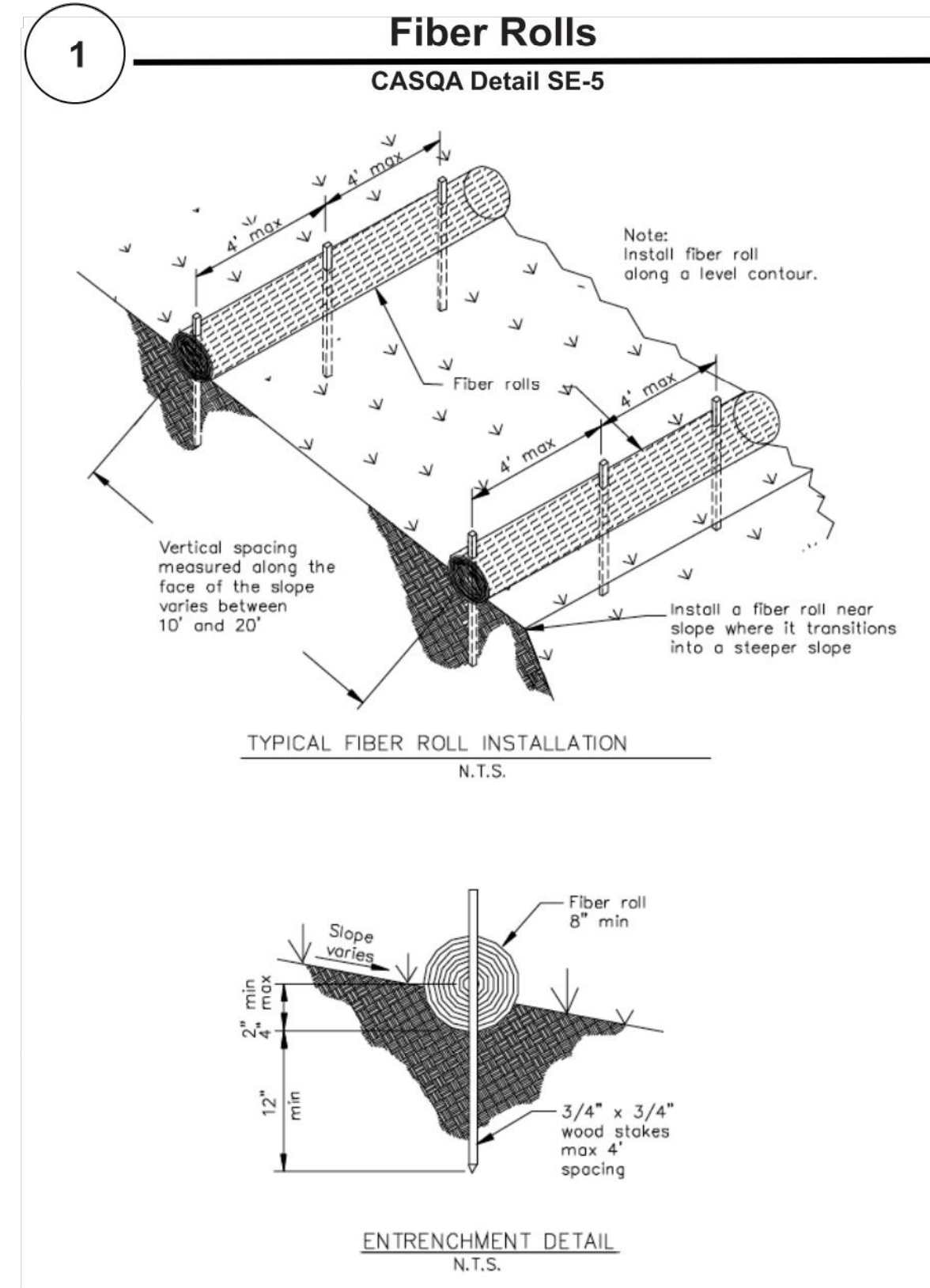
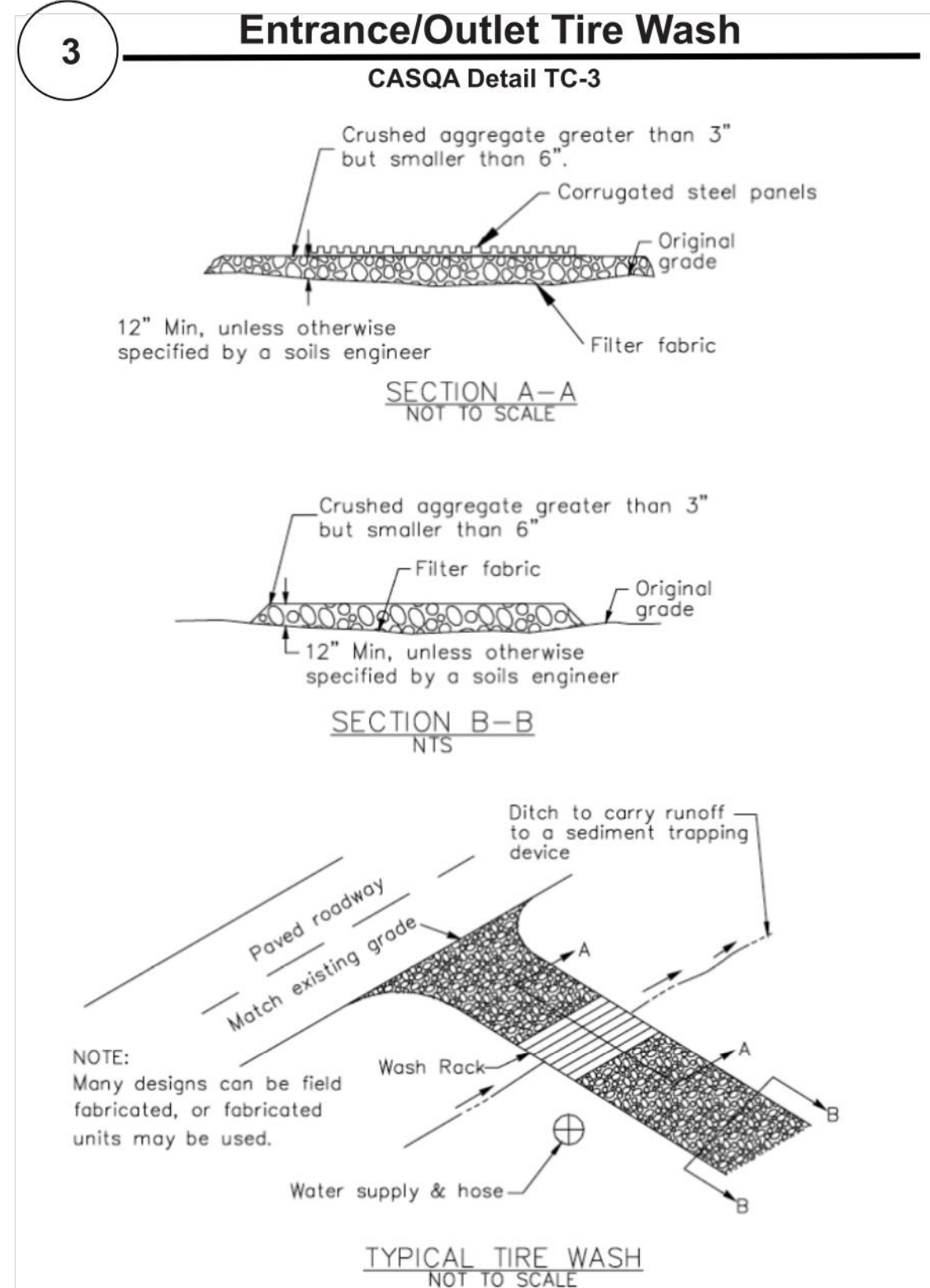
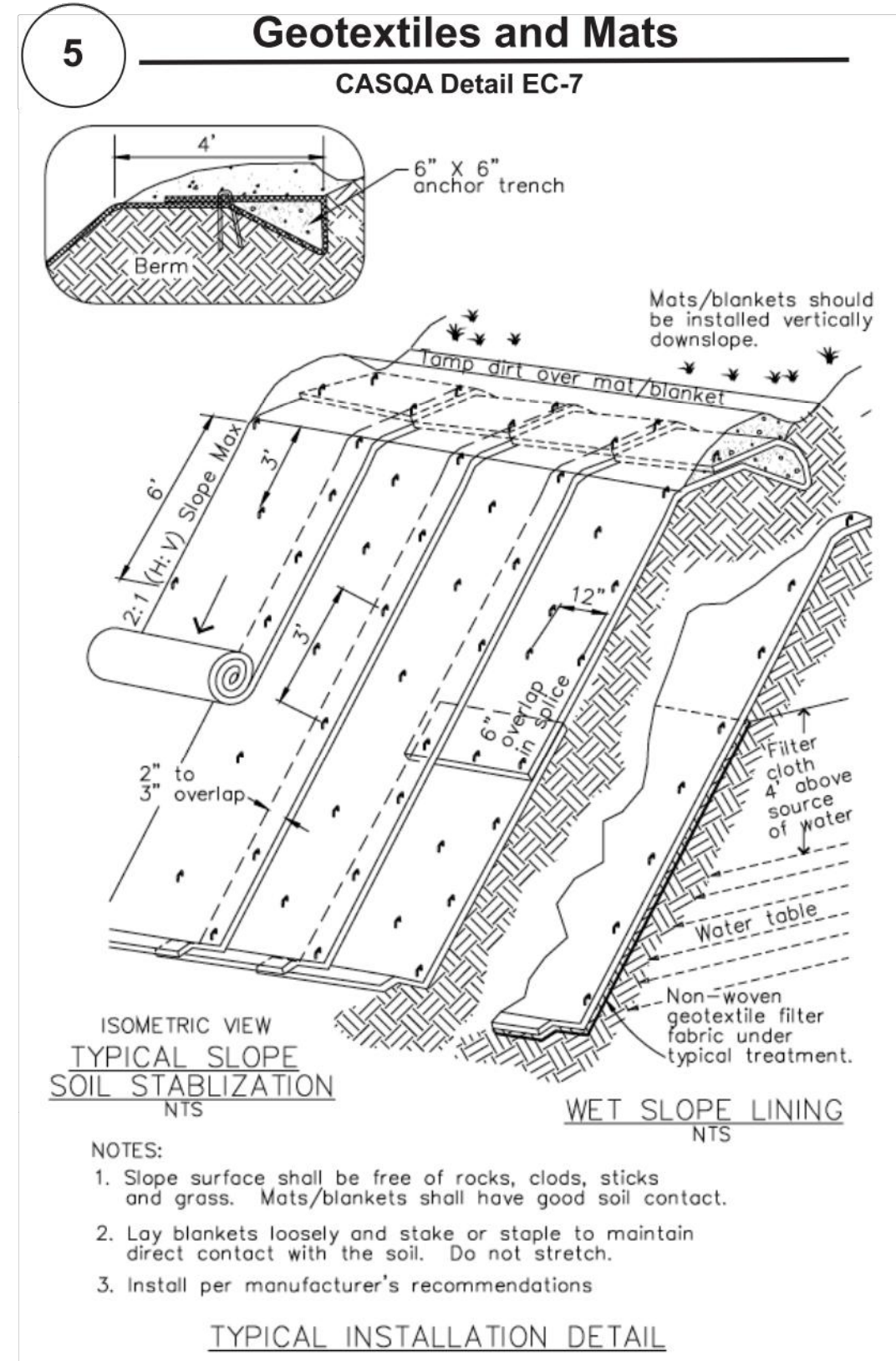
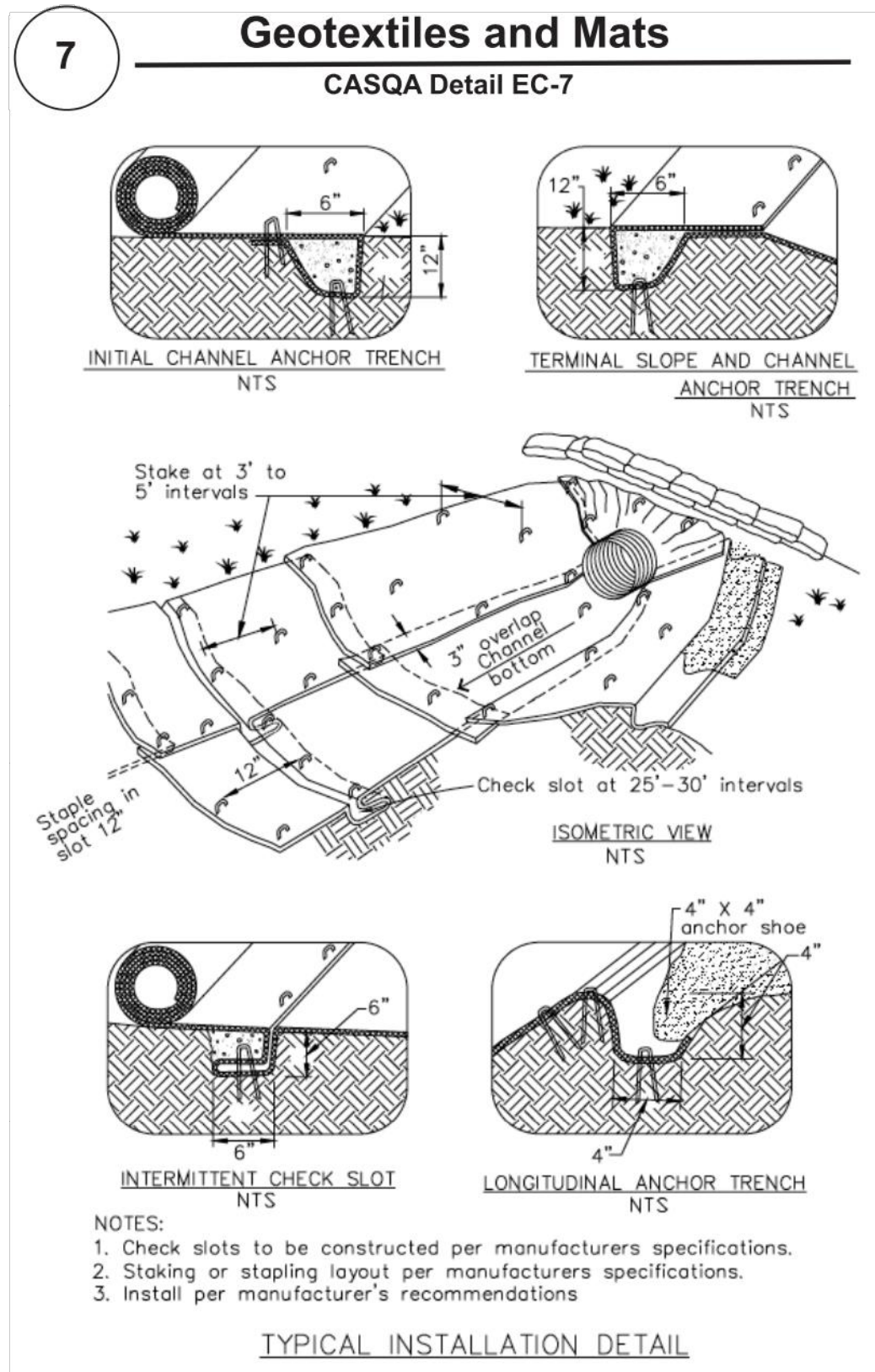
COUNTY OF SANTA CLARA  
NEW SINGLE FAMILY HOUSE  
15820 MIRADERO AVE., SAN JOSE, CA 95127

Sheet:  
**C-6**  
6 OF 7

COUNTY RECORD NO.:

APPLICANT: MANUELA AGUIAR

COUNTY ROAD: MIRADERO



Project Information

## Best Management Practices and Erosion Control Details Sheet 2

### County of Santa Clara



# BMP-2

**SMP ENGINEERS**  
 CIVIL ENGINEERS—LAND SURVEYORS  
 1534 Carob Lane Los Altos, CA 94024  
 Tel. (650) 941-8055 Fax (650) 941-8755

REVISIONS:

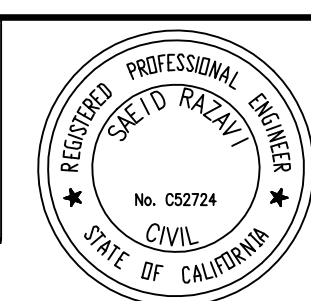
APPLICANT: MANUELA AGUIAR

GRADING AND DRAINAGE PLANS

BMP-2, EROSION CONTROL DETAILS, NOTES

COUNTY ROAD: MIRADERO

Scale:  
 Prepared by: S.P.  
 Checked by: S.R.  
 Date: 08/15/2024  
 SMP PROJECT #: 2.231.30



COUNTY OF SANTA CLARA  
 NEW SINGLE FAMILY HOUSE  
 15820 MIRADERO AVE., SAN JOSE, CA 95127

COUNTY RECORD NO.:

Sheet:  
**C-7**  
 7 OF 7