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GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE COUNTY OF SANTA CRUZ DESIGN CRITERIA, THE STATE STANDARD PLANS AND THE APPLICABLE PROVISIONS OF THE STATE STANDARD SPECIFICATIONS.
- THERE SHALL BE NO CHANGES IN THE APPROVED IMPROVEMENT PLANS WITHOUT PRIOR APPROVAL BY THE SANTA CRUZ COUNTY DEPARTMENT OF PUBLIC WORKS.
- PLEASE CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 811 or 800-227-2600 BEFORE DIGGING.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE APPROVED BY TRANSPORTATION ENGINEERING.
- THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE AT THE TIME THE CONTRACT IS AWARDED.

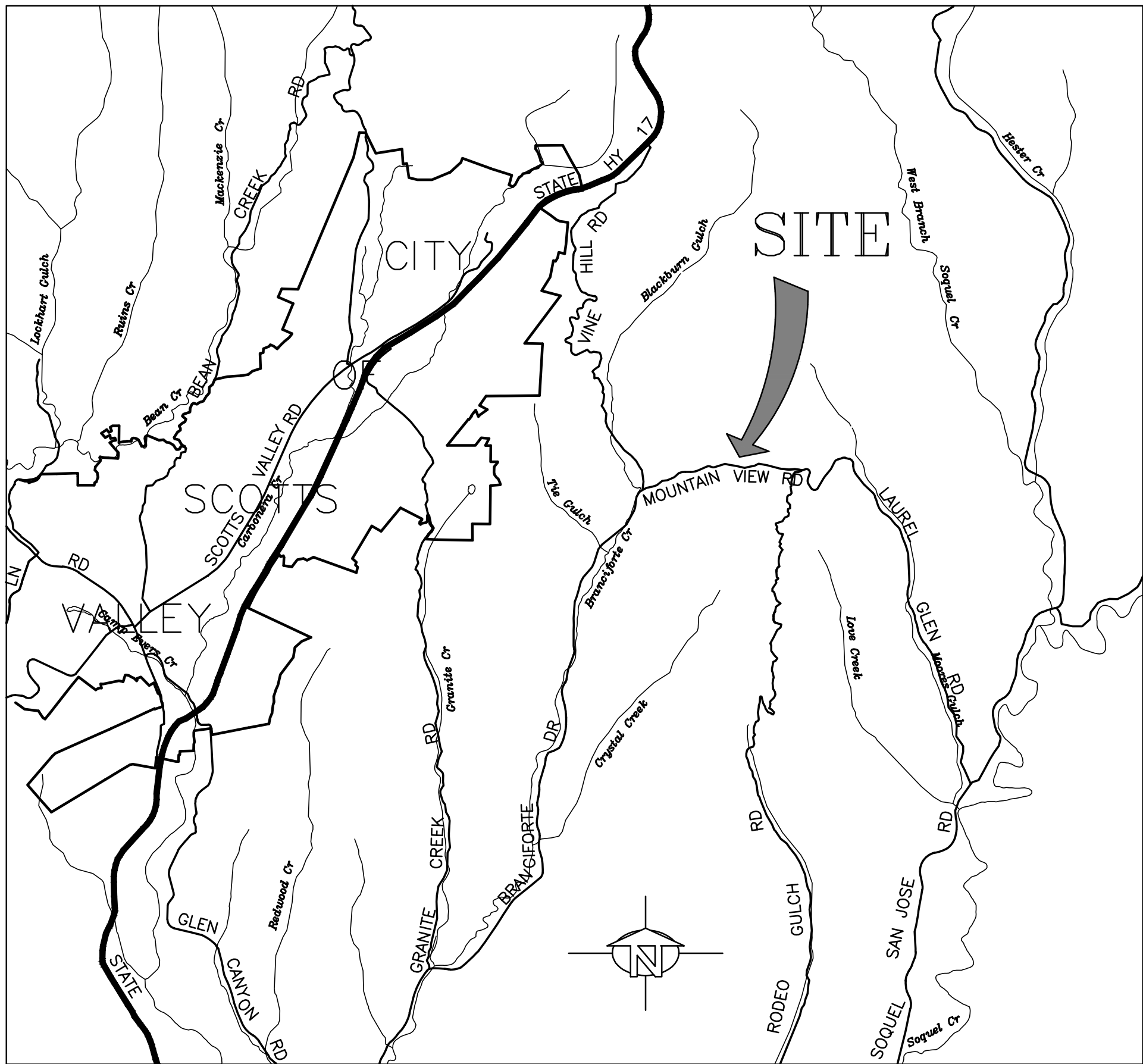
ABBREVIATIONS

A.B.	AGGREGATE BASE	KIP	1000 POUNDS FORCE
AC	ASPHALT CONCRETE	MBGR	METAL BEAM GUARD RAIL
APN	ASSESSOR'S PARCEL NUMBER	MIN	MINIMUM
APPROX	APPROXIMATE	N	NORTH
BOT	BOTTOM	(n)	NEW
BP	BOTTOM CONCRETE PIER	O.C.	ON CENTER
CL	CENTER LINE	OH	OVERHEAD
CL	CONTROL LINE	PERF	PERFORATED
CONC	CONCRETE	PG&E	PACIFIC GAS AND ELECTRIC
CONN	CONNECTION	PM	POST MILE
CONST	CONSTRUCTION	PRIN	PRINCIPAL
CP	CONTROL POINT	PT	POINT
DIA	DIAMETER	PVC	POLY VINYL CHLORIDE
E	EAST	RD	ROAD
(E), EXIST	EXISTING	REINF	REINFORCED
EA	EACH	RT	RIGHT
EL, ELEV	ELEVATION	R/W	RIGHT OF WAY
ENGR	ENGINEER	S	SOUTH
EP	EDGE OF PAVEMENT	SEC	SECTION
EST	ESTIMATE	SHT	SHEET
EXCAV	EXCAVATE, EXCAVATION	S.S.	SANDSTONE
FD	FOUND	STA	STATION
FT	FOOT, FEET	TP	TOP CONCRETE PIER
FTG	FOOTING	TYP	TYPICAL
GEN	GENERAL	U.B.	UNBONDED
GRD	GRADE	W	WEST
HDPE	HIGH DENSITY POLYETHYLENE	W/	WITH
HT	HEIGHT	&	AND
INV	INVERT	@	AT
IP	IRON PIPE	1ST	FIRST
JP	JOINT POLE	<	LESS THAN
		#	POUND

COUNTY OF SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS

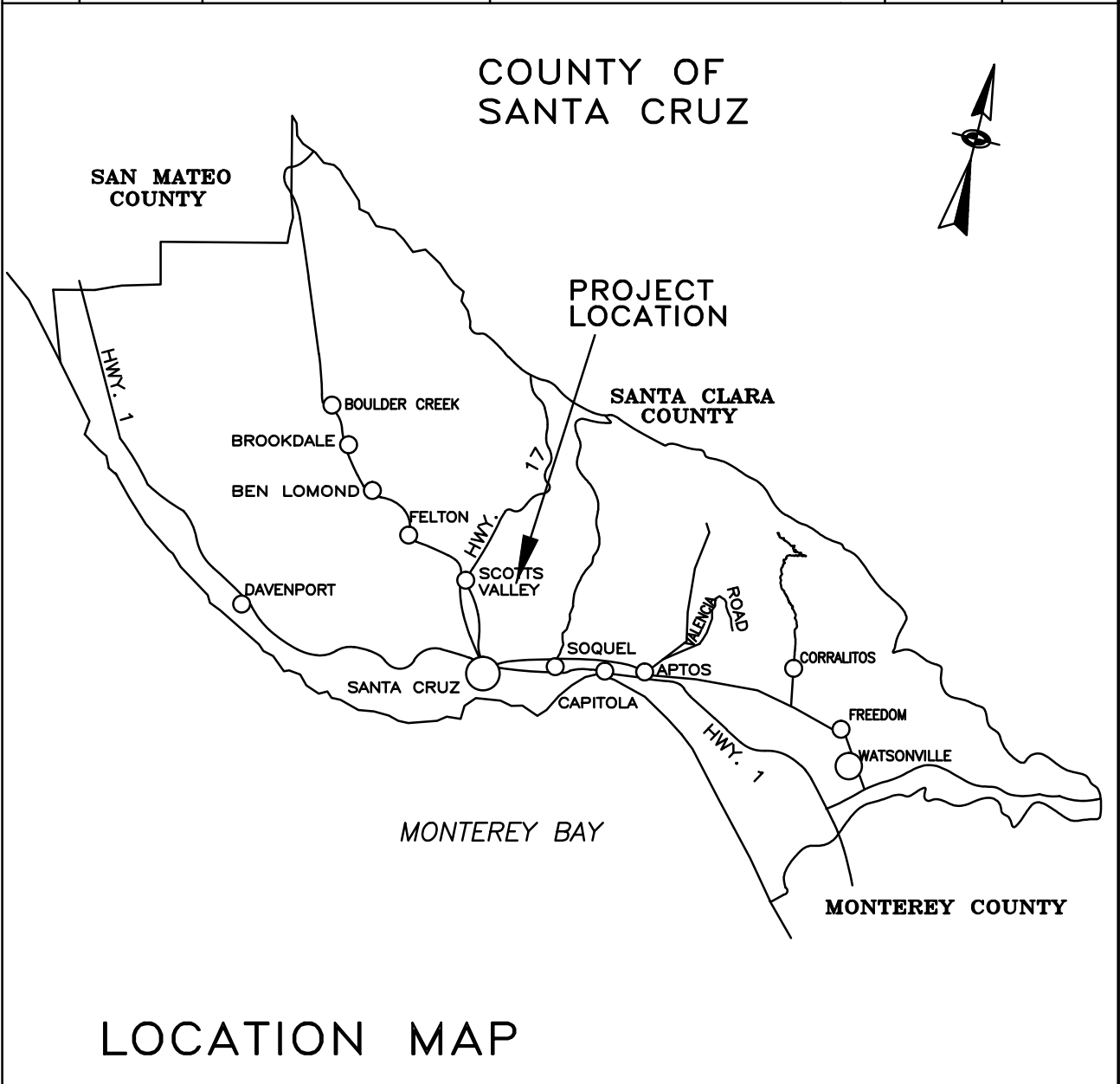
PROJECT PLANS FOR CONSTRUCTION ON
MOUNTAIN VIEW ROAD PM 0.47
STORM DAMAGE REPAIR PROJECT
March 2011 Storm Event

To be supplemented by CalTrans Standard Plans dated May 2010



VICINITY MAP
NOT TO SCALE

DIST	COUNTY	ROUTE	POST MILE OF PROJECT	SHEET No.	TOTAL SHEETS
01	SCr	3402	P.M. 0.47	1	6



LOCATION MAP

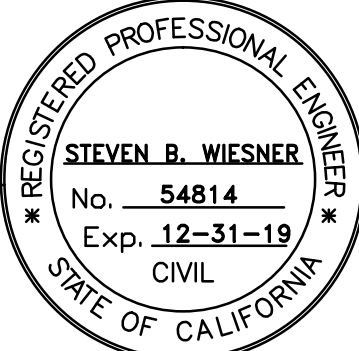
Design Engineer



Senior Design Engineer



Assistant Director of Public Works
Transportation Division



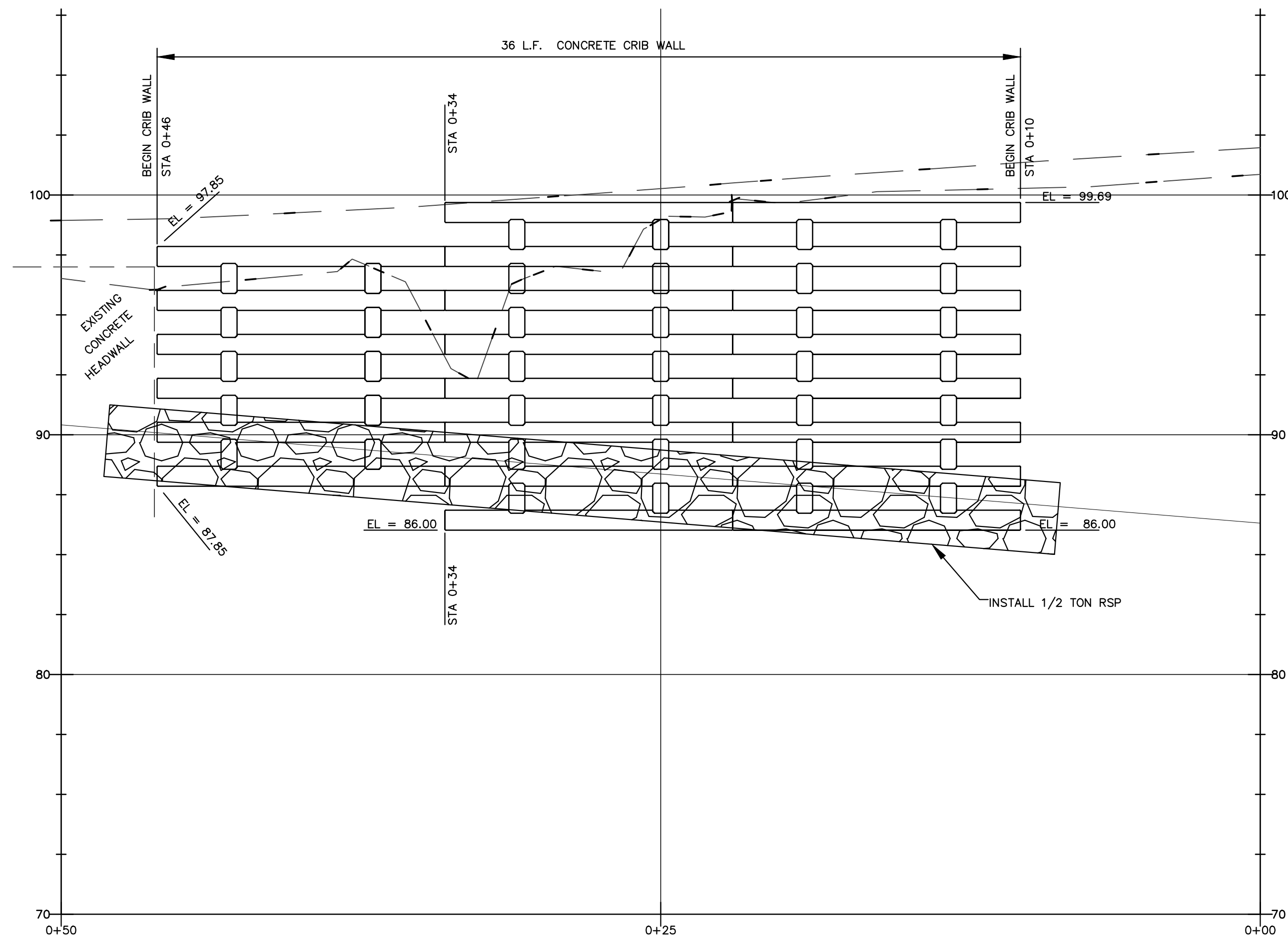
Director of Public Works



Chair, Board of Supervisors

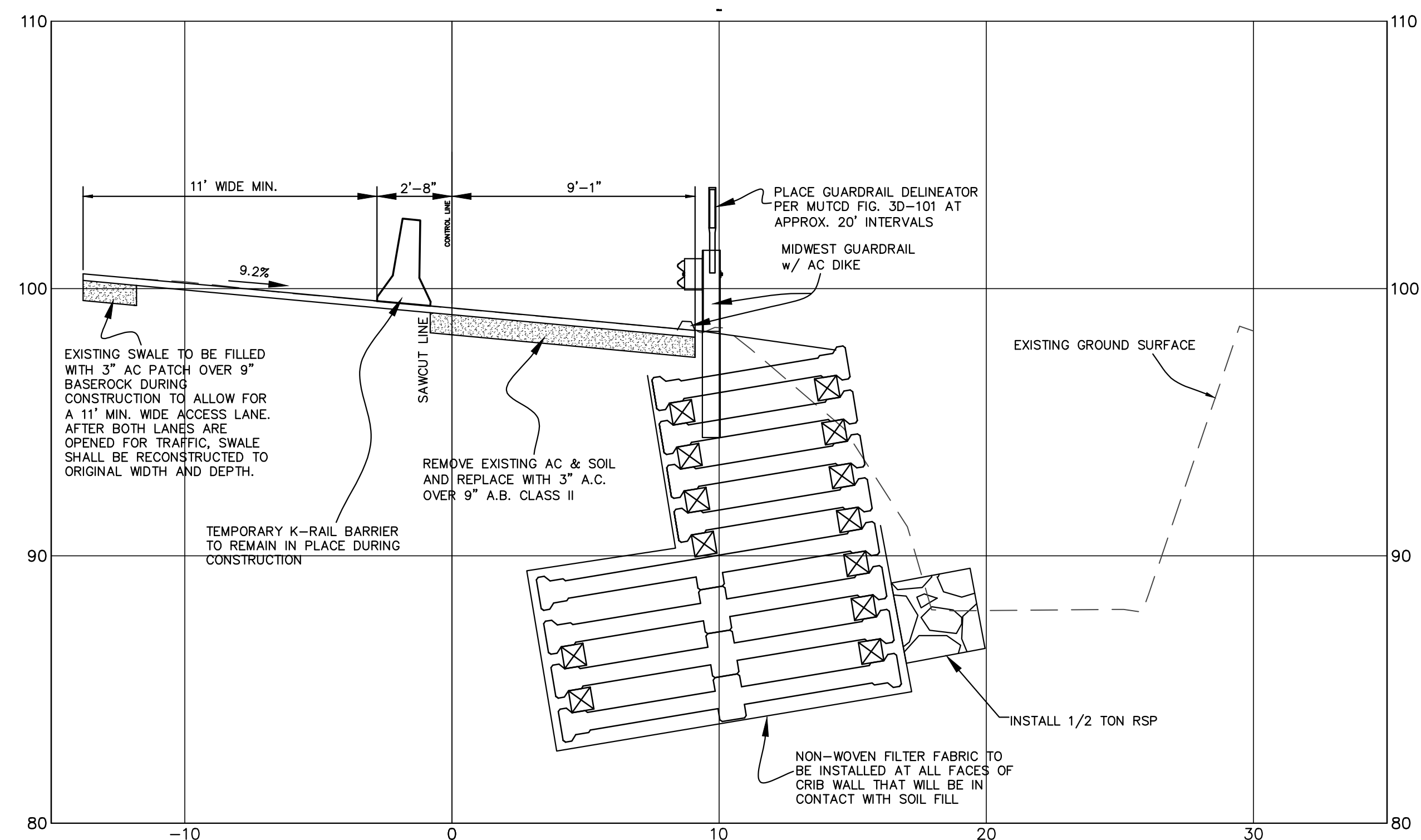
Date approved by Board of Supervisors

County Job No. 79121



PROFILE


SCALE: 1" = 4' HOR & VERT

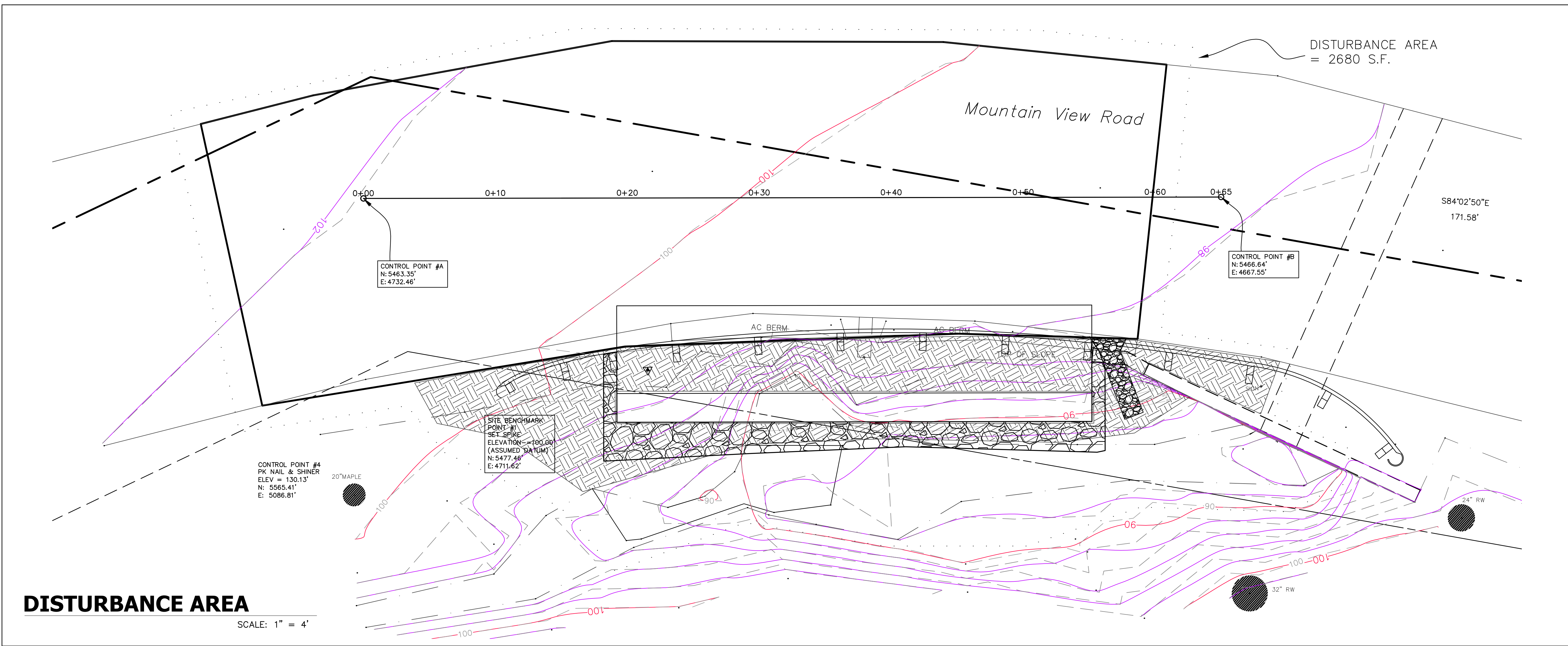


TYPICAL SECTION

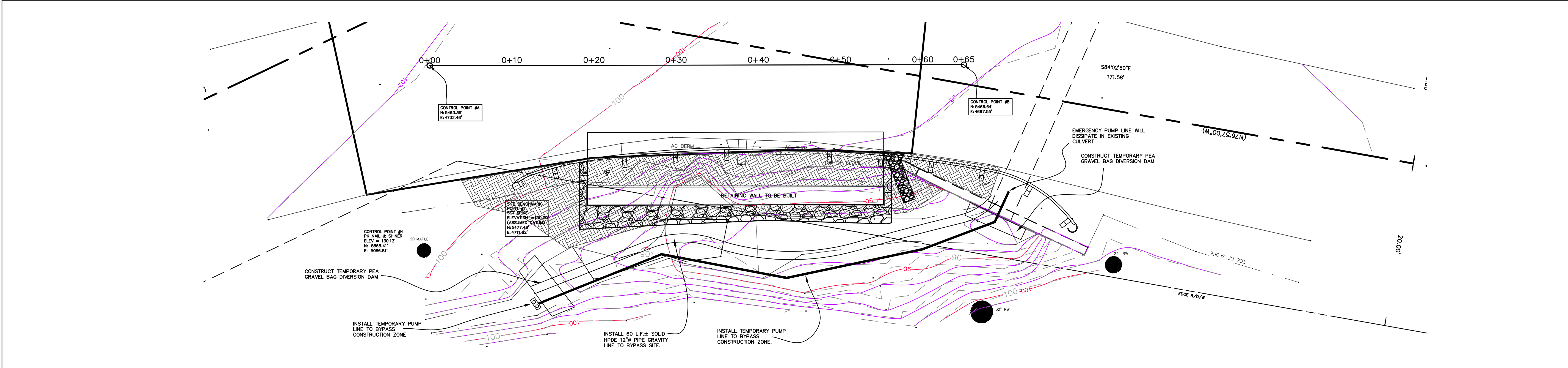
SCALE: 1" = 4' HOR & VERT

PROFILE & SECTION VIEW

COUNTY OF SANTA CRUZ – DEPARTMENT OF PUBLIC WORKS		PROJECT ENGINEER		
MOUNTAIN VIEW RD PM 0.47 STORM DAMAGE REPAIR PROJECT		GREG JONES		
DRAWN: GRJ				
CHECKED: TB				
DATE: 09/12/18				
SCALE: 1"=10'				
JOB NO. 79121				
SHEET				
3 OF 6				



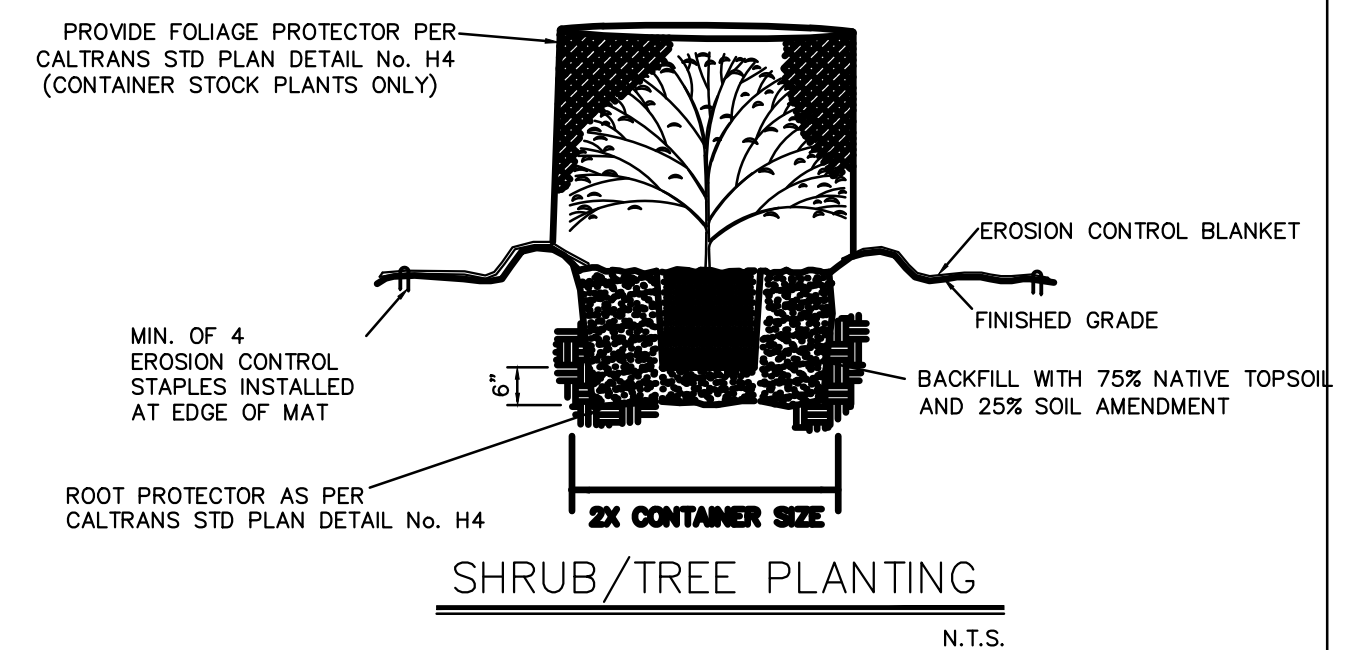
DISTURBANCE AREA
SCALE: 1" = 4'



CREEK DIVERSION
SCALE: 1" = 4'

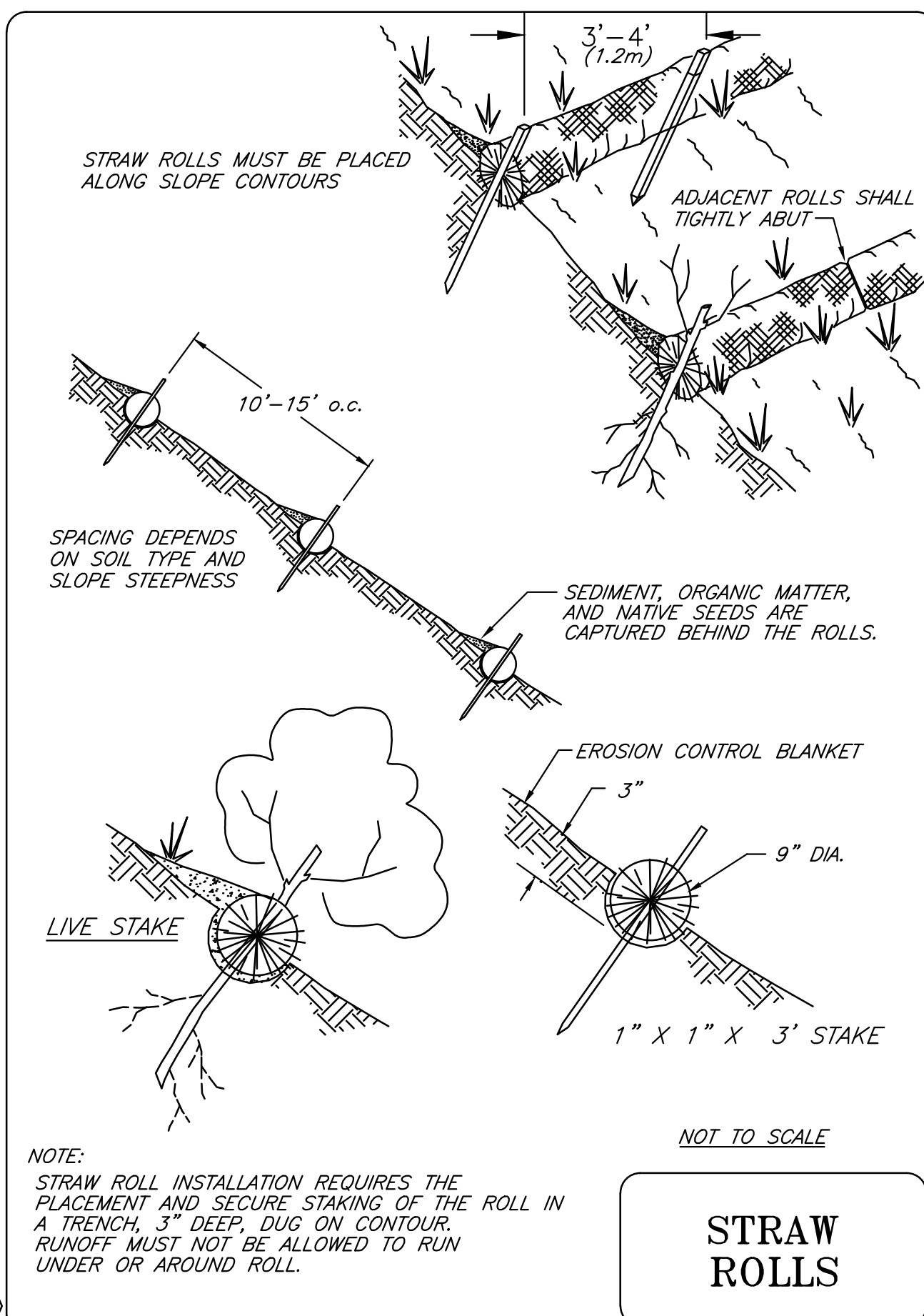
CREEK DIVERSION & DISTURBANCE AREA

BY		REVISION		DATE			PROJECT ENGINEER	GREG JONES	COUNTY OF SANTA CRUZ – DEPARTMENT OF PUBLIC WORKS MOUNTAIN VIEW RD PM 0.47 STORM DAMAGE REPAIR PROJECT	DRAWN: GRJ CHECKED: TB DATE: 09/12/18 SCALE: 1" = 10' JOB NO. 79121 SHEET 4 OF 6



NOTES

1. INSTALL PLANTS PER CALTRANS STD PLAN No. H3 AND AND H4 AND SPECIFICATIONS.
2. EXACT LOCATION OF PLANTS TO BE DETERMINED IN THE FIELD.



NOTE: LOCATIONS FOR
EROSION CONTROL & PLANT
INSTALLATIONS ARE
APPROXIMATE AND SHOULD BE
ADJUSTED IN THE FIELD AS
NECESSARY AND APPROVED BY
THE ENGINEER

STRAW ROLLS

*SEE SPECIAL PROVISIONS FOR WILLOW STAKING.

INSTALL PER MANUFACTURER'S SPECIFICATIONS.

THIS INCLUDES THE FOLLOWING: PREPARE THE SLOPE BEFORE THE INSTALLATION PROCEDURE IS STARTED. DIG 3-INCH DEEP TRENCHES ACROSS THE SLOPE ON CONTOUR TO PLACE THE ROLLS IN. START BUILDING TRENCHES FROM THE BOTTOM OF THE SLOPE AND WORK UP. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF ~10 FEET APART DEPENDING ON STEEPNESS OF SLOPE.

MARK TRENCH LOCATION PRIOR TO HYDROSEEDING AND INSTALLATION OF EROSION CONTROL BLANKET
(SEE HYDROSEEDING AND EROSION CONTROL BLANKET NOTES AND DETAIL FOR INSTALLATION METHODS).

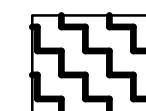
INSTALL STRAW ROLL AFTER EROSION CONTROL BLANKET IS INSTALLED AND BEFORE HYDROSEEDING. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL, EROSION CONTROL BLANKET AND THE STRAW WATTLE. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE POLE CUTTING OR WOODEN STAKES. DRIVE THE STAKE THROUGH PREPARED HOLE INTO THE SOIL. LEAVE APPROXIMATELY 1/2 INCH OF STAKE EXPOSED ABOVE ROLL. STAKE STAKES AT LEAST 6 FEET APART. ALTERNATE STRAIGHT LIVE POLE W/ WOOD CUTTING STAKES, 3/4 INCH DIAMETER; ALTERNATE W/ WOODEN STAKES

EROSION CONTROL NOTES:

1. ALL OPERATIONS SHALL CONFORM TO REQUIREMENTS OF THE COUNTY EROSION CONTROL ORDINANCE. THE DESIRED END RESULT OF THE PROPOSED MEASURE IS TO CONTROL SITE EROSION AND TO PREVENT SEDIMENT TRANSPORT OFF THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ANY ADDITIONAL MEASURES TO MEET THIS GOAL ARE BEING MET. SILT FENCES AND SAND BAGS SHALL BE USED TO PREVENT SILT RUNOFF.
2. DISTURBANCE TO NATURAL VEGETATION SHALL BE MINIMIZED WITHIN AREA OF CONSTRUCTION.
3. BETWEEN OCTOBER 1 AND MAY 31, ALL DISTURBED EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. DURING CONSTRUCTION SUCH PROTECTION SHALL CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF PROJECT ANY EXPOSED SOIL ON DISTURBED SLOPES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
4. SLOPE STABILIZATION SHALL CONSIST OF:
 - 1) REMOVAL OF ALL VEGETATIVE DEBRIS FROM SLOPE.
 - 2) HANDRAKING TO SMOOTH OUT THE DIRT SURFACE OF THE SLOPE.
 - 3) SEEDING ALL DISTURBED EXPOSED SOIL AREA WITH AN APPROVED GRASS SEED MIXTURE.
 - 4) PLACING EROSION CONTROL BLANKET OVER 3:1 SLOPE OR GREATER. ALL BLANKETS SHALL BE SECURED WITH HEAVY GAUGE WIRE STAPLES.
5. ANY EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE OR STOCKPILED IN A MANNER TO AVOID RUNOFF ON ADJOINING PROPERTIES.
6. ANY MATERIAL STOCKPILED DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC.
7. CONTRACTOR SHALL NOTIFY COUNTY OF SANTA CRUZ EROSION CONTROL/GRADING DIVISION, (831-454-3168) AT LEAST 48 HOURS BEFORE ANY EARTHWORK IS BEGUN.
8. EARTHWORK BETWEEN OCTOBER 1 AND MAY 31 IS PROHIBITED UNLESS WINTER GRADING APPROVAL HAS BEEN ISSUED BY ENVIRONMENTAL PLANNERS.
9. TEMPORARY SOOT PILING OF SUITABLE MATERIAL FROM EXCAVATION MAY OCCUR IN THE ROADWAY RIGHT-OF-WAY AREA. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE DISPOSED OF ON A DAILY BASIS AS DIRECTED AND APPROVED BY THE ENGINEER.

PLANT LEGEND

All areas disturbed by proposed improvements shall be seeded
Slopes over 3:1 will be covered with erosion control blanket



HYDROSEEDING WITH STRAW ROLLS

3:1 exposed soil slope shall have Geocir blanket, installation of straw rolls ~10' o.c., anchored with 3' long wood stakes and alternate with Arroyo willow (*Salix Lasiolepis*). All exposed soil disturbed by construction to be seeded and cover with native duff. Install willow wattle bundles at toe of RSP.


PLANT LIST

SYMBOL	SIZE	QUANTITY	BOTANICAL NAME – COMMON NAME / SPACING
AM	TREES 1 Gallon	5	Acer macrophyllum – Big Leaf Maple
CC	UNDERSTORY 1 Gallon	5	Corylus cornuta californica – Hazelnut
RC	1 Gallon	8	California rose (Rosa californica)
	CUTTINGS		
	Stake Cuttings	(30)	Salix Lasiolepis – Arroyo Willow in straw rolls
	Pole Cuttings	(24)	Salix Lasiolepis – Arroyo Willow wattles @ toe RSP

EROSION CONTROL SEED MIXTURE

EROSION CONTROL SEED MIXTURE
30 lbs.Bromus carinatus cucamonga - Cucamonga
Brome
6 lbs.Vulpia microstachys - Three Weeks Fescue
4 lbs.Trifolium wildenovii - Tomcat Clover
25 lbs.Sterile Barley

EROSION CONTROL & REVEGETATION

COUNTY OF SANTA CRUZ – DEPARTMENT OF PUBLIC WORKS		PROJECT ENGINEER		DATE	REVISION	BY
<p>MOUNTAIN VIEW RD PM 0.47</p> <p>STORM DAMAGE REPAIR PROJECT</p>						
DRAWN: CS						
CHECKED: SD						
DATE: 09/12/18						
SCALE: NOTED						
JOB NO. 79121						
SHEET						
5 OF 6						

PLANTING NOTES

A. GENERAL PLANTING INFORMATION

1. THESE NOTES ARE FOR GENERAL REFERENCE, IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATION ASSOCIATED WITH THE CONTRACT DOCUMENTS.
 2. PRIOR TO PLANT MATERIAL INSTALLATION, LOCATIONS SHALL BE COORDINATED WITH LAYOUT OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE FAMILIAR WITH THE LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS THAT MAY CONFLICT WITH THE WORK TO BE DONE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SHOULD CONFLICTS ARISE.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A SAFE AND CLEAN CONDITION. AT THE END OF EACH DAY THE SITE SHALL BE CLEANED UP AND LEFT IN A CONDITION THAT IS SAFE.
- B. NATIVE TOPSOIL
1. SELECT A LOCATION FOR A STABILIZED TEMPORARY STOCKPILE SITE THAT WILL NOT ERODE, BLOCK DRAINAGE, OR INTERFERE WITH WORK WITHIN THE DESIGNATED STAGING AREA.
 2. STRIP TOPSOIL ONLY FROM THOSE AREAS THAT WILL BE DISRUPTED BY EXCAVATION, FILLING, ROAD BUILDING, OR COMPACTING BY EQUIPMENT. A 4–6" STRIPPING DEPTH IS COMMON, BUT DEPTH VARIES DEPENDING ON THE SITE. STORE AT STOCKPILE SITE.
 3. PROTECT TOPSOIL STOCKPILES BY TEMPORARILY COVERING WITH PLASTIC AS SOON AS POSSIBLE TO ASSURE THE STORED MATERIAL IS NOT EXPOSED AND ALLOWED TO ERODE. INSTALL SILT FENCE AROUND STOCKPILES TO CONTROL SEDIMENTATION INTO THE STREAM.
 4. WHEN THE CONSTRUCTION PROJECT IS COMPLETED AND BEFORE PLANTING OPERATIONS AND SEEDING BEGIN, SCARIFY THE SUBSOIL TO A MINIMUM DEPTH OF 3". UNIFORMLY DISTRIBUTE TOPSOIL TO A MINIMUM, LIGHTLY COMPACTED DEPTH OF 4" ON 1V:3H (3:1) SLOPES AND 6" ON FLATTER SLOPES.
 5. DO NOT SPREAD TOPSOIL WHILE IT IS FROZEN OR MUDDY OR WHEN THE SUBGRADE IS WET OR FROZEN. CORRECT ANY IRREGULARITIES IN THE SURFACE THAT RESULT FROM TOPSOILING OR OTHER OPERATIONS TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL, BUT AVOID EXCESSIVE COMPACTING, AS IT INCREASES RUNOFF AND INHIBITS SEED GERMINATION.

C. PLANTING OPERATIONS

1. PLANTING OPERATIONS SHALL BE COMPLETED IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DETAILS FOR SITE PREPARATION AND PLANTING.
2. THE LOCATIONS OF REVEGETATION ELEMENTS ARE FOR PLANNING PURPOSES ONLY AND MAY BE ADJUSTED IN THE FIELD AT THE DIRECTION OF THE ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL TAKE CARE TO LOCATE PLANT MATERIALS TO OPTIMUM GROWTH CONDITIONS AND MAXIMUM AESTHETICS. PLANT MATERIAL SHALL NOT BE INSTALLED SO AS TO OBSTRUCT DRAINAGE PATTERNS OR HARM EXISTING PLANT MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD CONFLICTS OCCUR.
3. PRIOR TO SITE WORK FOR THE INSTALLATION OF THE CONTAINER STOCK, THE CONTRACTOR SHALL LAYOUT PLANT MATERIALS, WHILE STILL IN CONTAINERS OR AS FLAGGED LOCATIONS IN THE FIELD. THE ENGINEER SHALL REVIEW AND APPROVE ALL PLANTING LOCATIONS PRIOR TO SITE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING PLANTS OF THE SPECIES AND SIZE SPECIFIED AND DELIVERY OF THE PLANT MATERIALS TO THE SITE. THE ENGINEER SHALL REVIEW AND APPROVE ALL PLANT MATERIALS, PRIOR TO THEIR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPLACEMENT OF PLANT MATERIAL IF SAID MATERIAL IS IN POOR CONDITION AND REJECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL ENSURE THAT ALL PLANTS ARE TRUE TO NAME, WITH ONE PLANT IN EACH BUNDLE OR LOT TAGGED WITH THE BOTANICAL NAME AND PLANT SIZE, IN ACCORDANCE TO THE STANDARDS OF PRACTICE RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSEYMEN.
6. ALL PLANTS SHALL BE THE GENUS AND SPECIES AND SIZES SHOWN ON THE PLANS. UNDER NO CONDITIONS WILL THERE BE ANY SUBSTITUTION OF PLANTS OR SIZES, EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE ENGINEER AND AUTHORIZATION BY RWQCS.
7. EXISTING VEGETATION THAT IS NOT WITHIN THE LIMITS OF THE PROJECT AREA SHALL NOT BE CUT, REMOVED OR OTHERWISE DISTURBED, EXCEPT FOR OCCURRENCES OF INVASIVE, NON-NATIVE PLANT SPECIES.
8. LIVE CUTTINGS SHALL BE INSTALLED AS SHOWN ON PLANTING PLAN AND SHALL BE ADJUSTED IN THE FIELD AS NECESSARY. LIVE CUTTINGS TO BE INSTALLED DURING ROCK SLOPE PROTECTION PLACEMENT SHALL FOLLOW POLE CUTTINGS FOR INSTALLATION IN RSP METHODS. LIVE CUTTINGS TO BE INSTALLED AFTER THE PROJECT IS FINISHED SHALL FOLLOW LIVE STAKING IN SOIL INSTALLATION METHODS (INSTALLATION BETWEEN DECEMBER–FEBRUARY OR AS DIRECTED BY THE ENGINEER).

D. SEEDING NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPLICATION OF SEED ON ALL DISTURBED SOIL AREAS (SEE PLANTING PLAN FOR SEED MIX). SUBMIT 4-OUNCE SAMPLE OF SEED MIX TO ENGINEER WITH CERTIFICATION. SEED CAN BE OBTAINED FROM PACIFIC COAST SEED, LIVERMORE, CA (510) 373-4417, OR APPROVED EQUAL.
2. SEEDING OPERATIONS SHALL BE APPLIED BY HYDROSEEDING AND COMPLETED IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DETAILS FOR SITE PREPARATION AND SEEDING.
3. THE LOCATIONS OF THE SEEDING AREAS ARE FOR PLANNING PURPOSES ONLY AND MAY BE ADJUSTED IN THE FIELD AT THE DIRECTION OF THE ENGINEER PRIOR TO INSTALLATION. THE GENERAL CONTRACTOR SHALL TAKE CARE TO INSTALL SEED AND RELATED MATERIALS TO PROVIDE OPTIMUM GROWTH CONDITIONS AND MAXIMUM AESTHETICS. SEEDED MATERIAL SHALL NOT BE INSTALLED SO AS TO OBSTRUCT DRAINAGE PATTERNS OR HARM EXISTING PLANT MATERIAL. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD CONFLICT OCCUR.
4. PRIOR TO SITE WORK, THE GENERAL CONTRACTOR SHALL FLAG THE BOUNDARIES OF THE SEEDING AREAS, DEMARCATING THE APPLICATION AREA FOR THE SPECIFIED SEED MIXES. THE ENGINEER SHALL REVIEW AND APPROVE ALL SEEDING LOCATIONS PRIOR TO SITE WORK.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS FOR THE SEED APPLICATION, AS SPECIFIED, AND DELIVERY OF THE MATERIALS TO THE SITE. THE ENGINEER SHALL REVIEW AND APPROVE ALL MATERIALS, PRIOR TO THEIR INSTALLATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY MATERIAL IF SAID MATERIAL IS NOT AS SPECIFIED AND IS REJECTED BY THE ENGINEER.
6. GENERAL CONTRACTOR SHALL ENSURE THAT ALL SEED ARE TRUE TO NAME, WITH SEED MIXES IDENTIFIED WITH THE BOTANICAL NAME, APPLICATION RATE, PURITY AND GERM, AND THAT THE SEED AND/OR SEED MIX CONTAINS NO NOXIOUS WEEDS.
7. ALL SEEDS SHALL BE THE GENUS AND SPECIES SHOWN ON THE PLANS. UNDER NO CONDITIONS WILL THERE BE ANY SUBSTITUTION OF SPECIES, EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE ENGINEER.
8. SEEDING SHALL OCCUR FOLLOWING ALL SITE WORK AND AFTER NATIVE TOPSOIL HAS BEEN SPREAD AND THE SEEDBED HAS BEEN PREPARED.

E. MAINTENANCE & MONITORING NOTES

1. WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, MAINTENANCE OF PLANT MATERIALS, PLANT BASINS, WATERING AND WEEDING NECESSARY TO KEEP THE PLANT MATERIAL IN A HEALTHY, GROWING CONDITION AND KEEP THE PLANTING AREAS NEAT THROUGHOUT THE MAINTENANCE PERIOD. THIS INCLUDES THE REMOVAL OF NON-NATIVE INVASIVE PLANT SPECIES. WORK SHALL CONTINUE WITH A SEPARATE CONTRACT WITH THE APPROVED REVEGETATION SPECIALIST FOR THE 5-YEAR PLANT ESTABLISHMENT PERIOD AS INCLUDED IN THE SPECIAL PROVISIONS. THE CONTRACT SHALL BE EXTENDED ON A YEARLY BASIS UNTIL SUCCESS CRITERIA HAS BEEN MET.
2. ALL WEEDS SHALL BE REMOVED FROM THE CONTAINER STOCK PLANTING BASINS THROUGHOUT THE MAINTENANCE PERIOD. THE WEEDS WILL BE REMOVED IN ORDER TO REDUCE COMPETITION FOR AVAILABLE NUTRIENTS, MOISTURE, AND SUNLIGHT. WEEDS SHALL BE HAND-PULLED. ALL WEED CONTROL SHALL BE DONE IN A MANNER THAT PROTECTS THE INSTALLED PLANTS. WEEDS THAT GROW WITHIN THE PLANTING BASINS SHALL BE CONTROLLED WHEN THEY REACH A HEIGHT OF 4" AND/OR COVER 20% OF THE PLANTING BASIN. WEEDING SHALL CONSIST OF BAGGING AND REMOVAL OF WEED PLANTS FROM THE PROJECT SITE. NO PRE-EMERGENT HERBICIDES SHALL BE ALLOWED.
3. IF INVASIVE, NON-NATIVE PLANT SPECIES ESTABLISH WITHIN THE REVEGETATION AREAS, CONTROLS SHALL BE IMPLEMENTED TO PREVENT THE INFESTATIONS FROM DEVELOPING AND TO FURTHER ENHANCE SURVIVAL OF THE PLANTED SPECIES DURING THE 5 YEAR ESTABLISHMENT PERIOD. HAND REMOVAL SHALL BE UTILIZED TO REMOVE AND CONTROL THE OCCURRENCE OF THESE SPECIES FROM THE PROJECT WORK AREA. INVASIVE, NON-NATIVE SPECIES SHALL BE REMOVED THROUGH HAND HOING AND HAND PULLING, WITH ALL PLANT MATERIAL BAGGED AND REMOVED FROM THE SITE. THE GOAL OF THE MAINTENANCE ACTIONS WILL BE TO REMOVE ALL INVASIVE PLANT SPECIES FROM THE PROJECT AREA PRIOR TO SPREADING INTO THE REVEGETATION AREA. LESS THAN 20% COVERAGE OF NON-NATIVE SPECIES WILL BE ACHIEVED BY THE END OF THE MONITORING PERIOD.
4. SUPPLEMENTAL WATERING SHALL BE IMPLEMENTED FOR THE CONTAINER STOCK AND LIVE CUTTINGS. PLANTS SHALL BE HAND-WATERED NO LESS THAN TWICE A WEEK DURING THE MAINTENANCE PERIOD. APPROXIMATELY 1 GALLON OF WATER SHALL BE APPLIED TO EACH PLANT AT EACH WATERING EVENT. EACH WATERING SHALL BE OF SUCH A QUANTITY AS TO PROVIDE OPTIMUM GROWTH CONDITIONS. THIS WORK SHALL INCLUDE WATERING BY HAND FROM WATER TRUCK. THIS SUPPLEMENTAL IRRIGATION SHALL BE CONTINUED UNTIL NATURAL RAINFALL LEVELS REPLENISH SOIL MOISTURE OF THE GROUND.
5. EROSION CONTROL: ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. PERIODIC INSPECTION REPAIR AND MAINTENANCE OF THE EROSION CONTROL MEASURES WILL BE REQUIRED DURING THE MAINTENANCE PERIOD.
6. THE COUNTY SHALL CONDUCT MONITORING OF THE REVEGETATION AREAS FOR A PERIOD OF 5 YEARS AFTER PLANTING. IN THE FALL OF EACH YEAR ALL INSTALLED PLANTS SHALL BE COUNTED AND MONITORED FOR SURVIVAL, HEALTH AND VIGOR. THE SITE VISITS SHALL BE CONDUCTED BY A HABITAT RESTORATION SPECIALIST AND INSPECTIONS SHALL BE INCORPORATED INTO A YEARLY MONITORING REPORT. PHOTO-DOCUMENTATION SHALL ALSO BE EMPLOYED TO RECORD PROGRESS. DATA FROM THE REPORT SHALL STATE WHETHER THE PLANTINGS HAVE BEEN SUCCESSFUL AND IF ANY REMEDIAL MEASURES ARE REQUIRED. THE PROJECT SHALL BE DEEMED SUCCESSFUL IF THE PROJECT ACHIEVES 80% SURVIVAL OF EACH SPECIES BY THE END OF THE MONITORING PERIOD.

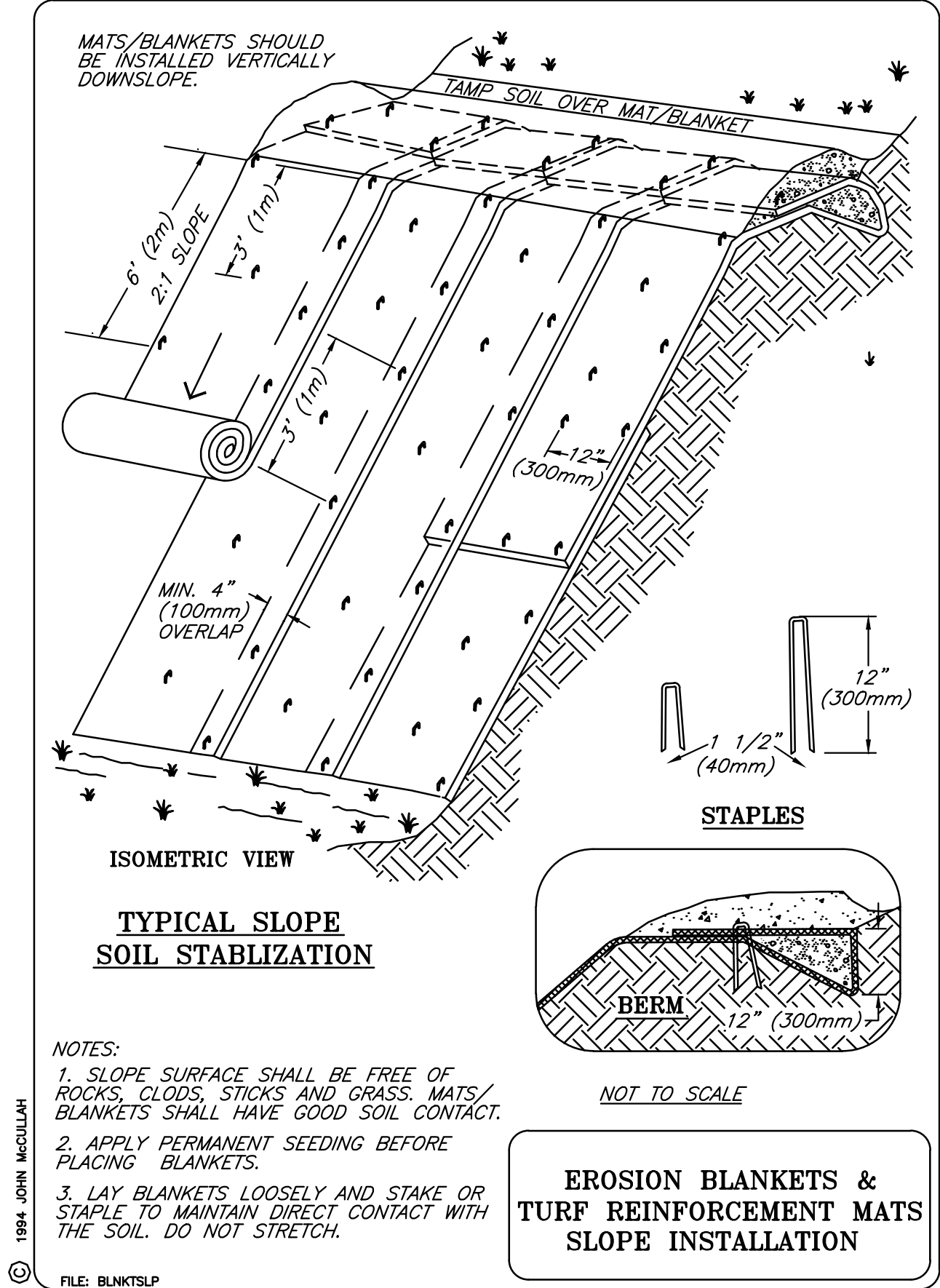
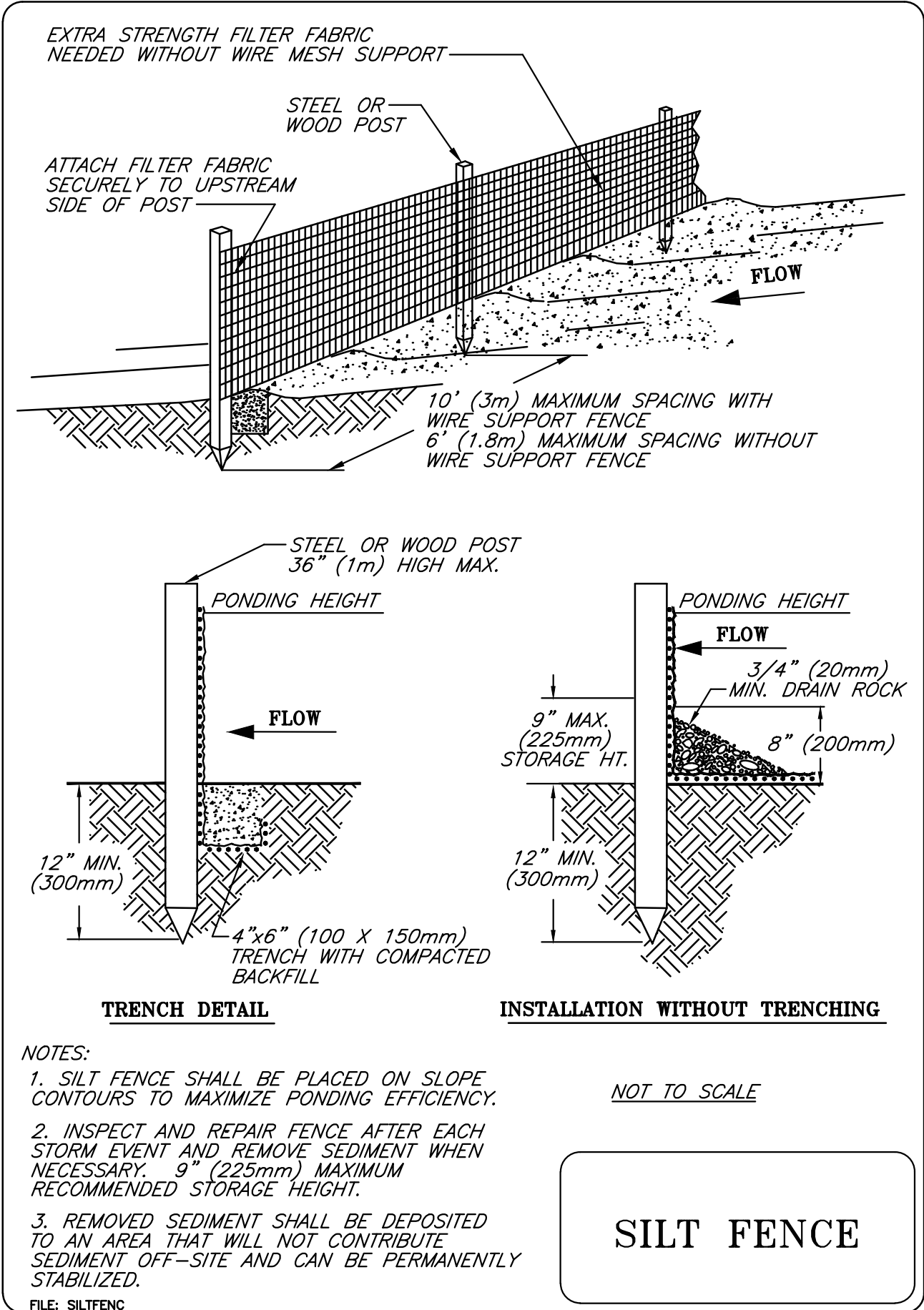
SILT FENCE INSTALLATION

- CONSTRUCTION SPECIFICATIONS:
- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT AND PONDING HEIGHT SHALL NEVER EXCEED 18 INCHES.
 - THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.
 - If possible, the filter fabric shall be cut from a continuous roll to avoid the use of joints. When joints are necessary, filter cloth shall be spliced only at a support post, with a minimum 6 inch overlap and both ends securely fastened to the post.
 - Posts shall be spaced a maximum of 10 feet apart and driven securely into the ground (minimum of 12 inches). When extra-strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
 - Turn the ends of the fence uphill.
 - A trench shall be excavated approximately 4 inches wide and 6 inches deep along the line posts and upslope from the barrier.
 - When standard-strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1 inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 2 inches and shall not extend more than 36 inches above the original ground surface.
 - The standard-strength filter fabric shall be stapled or wired to the fence, and 6 inches of the fabric shall extend into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to the existing trees.
 - When extra-strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts.
 - The trench shall be backfilled and the soil compacted over the toe of the filter fabric.
 - Silt fences placed at the toe of a slope shall be set at least 6 feet from the toe in order to increase ponding volume.
 - Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized and any sediment stored behind the silt fence has been removed.

- INSPECTION AND MAINTENANCE:
- Silt fence and filter barriers shall be inspected weekly after each significant storm (1 inch in 24 hours). Any required repairs shall be made immediately.
 - Sediment shall be removed when it reaches ½ height of the fence or 9 inches maximum.
 - The removed sediment shall conform with the existing grade and be vegetated or otherwise stabilized.

EROSION CONTROL BLANKET INSTALLATION

- CONSTRUCTION SPECIFICATIONS:
- Site Preparation:
- Proper site preparation is essential to ensure complete contact of the protection matting with the soil.
 - Grade and shape area of installation.
 - Remove all rocks, clods, vegetative or other obstructions so that the installed blankets, or mats will have direct contact with the soil.
 - Prepare seedbed by loosening 2–3 inches of topsoil above the final grade.
 - Incorporate amendments, such as lime and fertilizer, into soil according to soil text and the seeding plan.
- Seeding:
- Seed area before blanket installation for erosion control and re-vegetation. Seeding installation is often specified for turf reinforcement application. When seeding prior to blanket installation, all check slots and other areas disturbed during installation must be reseeded.
 - Where soil filling is specified, seed the matting and the entire disturbed area after installation and prior to filling the mat with soil.
- Anchoring:
- U-shaped wire staples, metal geotextile stake pins, or triangular wooden stakes can be used to anchor mats to the ground surface. Wire staples shall be a minimum of 11 gauge. Metal stake pins shall be ⅝ inch diameter steel with a 1 ½ inch steel washer at the head of the pin. Wire staples and metal stakes shall be driven flush to the soil surface. All anchors shall be 6–8 inches long and sufficient ground penetration to resist pullout. Longer anchors may be required for loose soils.
- Installation on Slopes:
- Begin at the top of the slope and anchor its blanket in a 6 inch deep x 6 inch wide trench. Backfill trench and tamp earth firmly.
 - Unroll blanket downslope in the direction of the creek or streambed.
 - The edges of adjacent parallel rolls must be overlapped 2–3 inches and be stapled every 3 feet.
 - When blankets must be spliced, place blankets end over end (shingle style) with 6 inch overlap. Staple through overlapped area, approximately 12 inches apart.
 - Lay blankets loosely and maintain direct contact with the soil – do not stretch.
 - Blankets shall be stapled sufficiently to anchor blanket and maintain contact with the soil. Staples shall be placed down the center and staggered with the staples placed along the edges. Steep slopes, 1:1 and 2:1 require 2 staples per square yard. Moderate slopes 2:1 to 3:1 require 1–2 staples per square yard (1 staple 3 ft. o.c.). Gentle slopes require 1 staple per square yard.
- Installation in Channels:
- Dig initial anchor trench 12 inches deep and 6 inches wide across the channel at the lower end of the project area.



EROSION CONTROL & REVEGETATION NOTES

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES

0 1 2 3

BY				
REVISION				
DATE				
PROJECT ENGINEER		GREG JONES		
COUNTY OF SANTA CRUZ – DEPARTMENT OF PUBLIC WORKS		MOUNTAIN VIEW PM 0.47 STORM DAMAGE REPAIR PROJECT		
DRAWN: CS				
CHECKED: SD				
09/12/18				
SCALE: N/A				
JOB 79121				
SHEET				
6		OF 6		