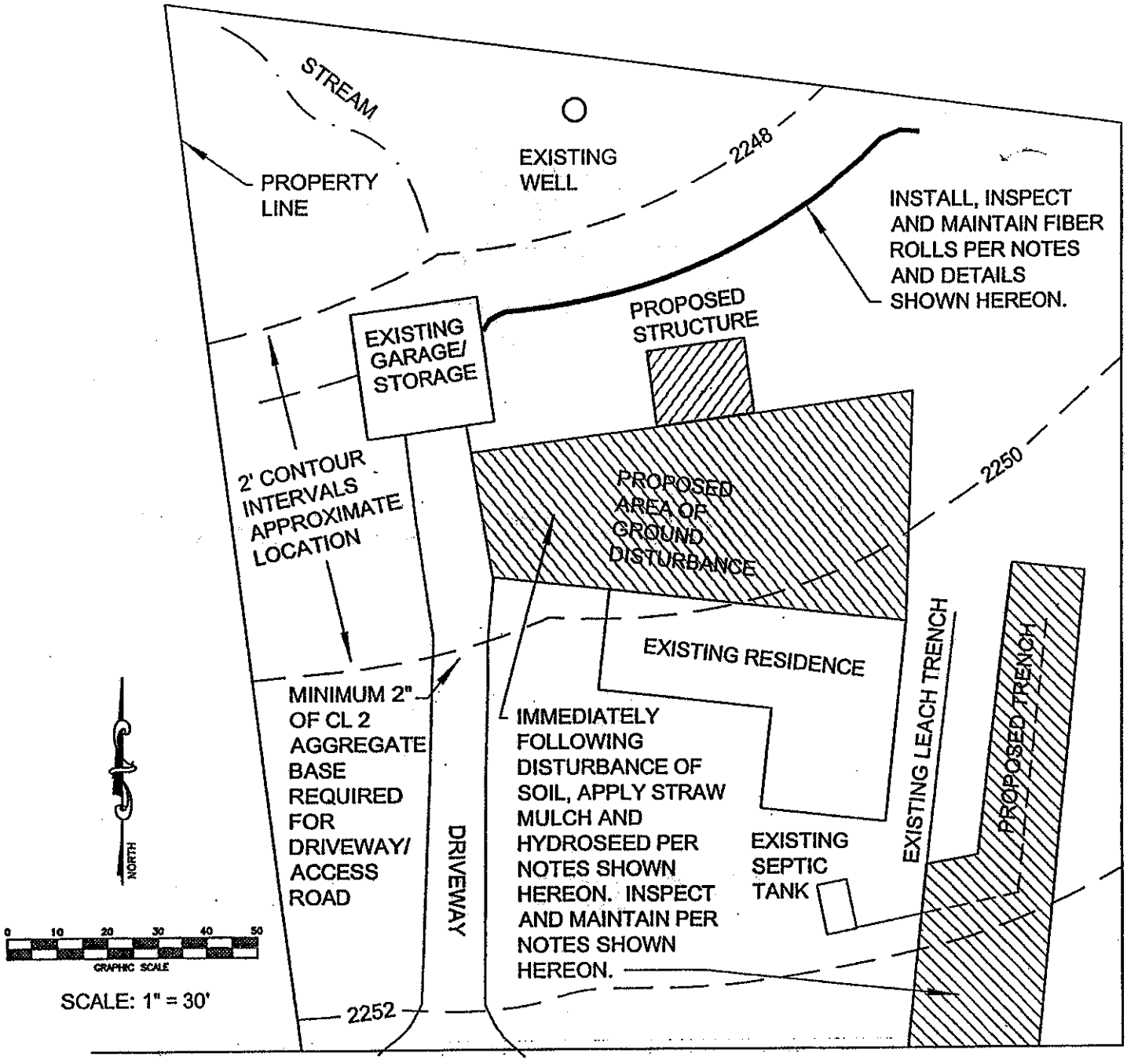
EROSION CONTROL PLAN

SUBMITTAL REQUIREMENTS

July 7, 2005

BUTTE COUNTY SAMPLE EROSION CONTROL PLAN



Assessor's Parcel Number: ☐☐☐ - ☐☐☐ - ☐☐☐ Size (Acres) _____

Owner Name / Address / Phone No. _____

Plan Preparer: _____ Phone _____

Indicate one of the following: "WP" Zone _____ Cohasset Watershed Protection _____

Paradise/Magalia/Firhaven Watershed Protection _____ North Chico Specific Plan _____

Improvement Plan Requirement _____ Map Requirement _____ Other (State) _____

EROSION CONTROL PLAN REQUIREMENTS

GENERAL INFORMATION

- Erosion control plans are to be prepared by a qualified professional with experience in the field of erosion and sediment control.
- The qualified professional shall have the ability to certify based on a professional license or registration issued in the state of California that the erosion and sediment control plans are suitable for proposed construction and that when completed, the construction was in accordance with the erosion and sediment control plans.
- The plans shall include both temporary (first year) and permanent erosion control protection measures that prevent sediment and other pollutant discharges from reaching watershed drainages and streams.
- In the event that the erosion and sediment control plans fail to adequately prevent sediment from leaving the site, the qualified professional will be contacted to immediately correct and/or repair the deficiencies.

PLAN PREPARATION

- Site plan must be drawn to a recognizable scale. Example: 1"= 30 feet. Paper size requirements: 11" x 17" min., 24" x 36" max. Plans must be clearly drawn on clean paper (not graph paper) and large enough to make corrections and comments on without cluttering the plan. Where needed, expanded blow-ups or insets shall be used to clarify details.
- Provide assessor's parcel number, owners name, current mailing address and phone number.
- Provide name, phone number, and professional qualifications of person who prepares plan.
- Indicate why erosion and sediment control plan is required (i.e. Paradise/Magalia/Firhaven Watershed Protection, Cohasset Watershed Protection, North Chico Specific Plan, Map Requirement, etc.).
- State the time of year that construction activity may occur. If construction activity occurs between November 15 and April 1, the preparer of the erosion and sediment control plan shall certify that the conditions are suitable for such construction. If land is cleared between April 1 and November 15, the area shall be revegetated, hydroseeded, mulch protected or otherwise stabilized no later than December 1.

PLAN REQUIREMENTS

- Show property lines
- Show all existing on-site improvements (i.e. buildings, septic systems, retaining walls, fuel tanks, wells, and pools, etc)
- Show all proposed on-site improvements.
- Show location of any spring, creek, or other body of water (including seasonal creeks and drainage ditches) within property boundaries and within 100 feet of the property line.
- Show contour lines at minimum 2' intervals. Approximate representation is adequate.
- Show existing and proposed access for both temporary construction and permanent usage. Indicate type of surface for access road/driveway (i.e. gravel, concrete, etc.).
- Show areas of ground disturbance.
- Show location of soil stockpiles.
- Show north arrow.
- Show scale.
- Label street name that parcel adjoins.

EROSION AND SEDIMENT CONTROL REQUIREMENTS (notes to be shown on the plans)

AGGREGATE BASE:

- Roads and driveways shall be surfaced with at least 2 inches of class 2 aggregate base.

STRAW MULCH:

- Apply straw at a minimum rate of 4,000 lb/acre, either by machine or by hand distribution.
- Roughen embankments and fill rills before placing the straw mulch by rolling with a crimping or punching type roller or by track walking.
- Evenly distribute straw mulch on the soil surface.
- Anchor straw mulch to the soil surface by "punching" it into the soil mechanically (incorporating). Alternatively, use a tackifier to adhere straw fibers. A tackifier is typically applied at a rate of 125 lb/acre. In windy conditions, the rates are typically 180 lb/acre.

HYDROSEEDING:

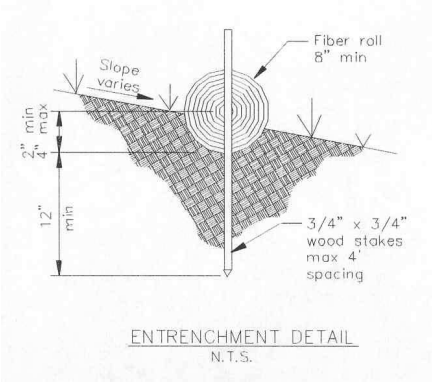
- Use hydroseeding in conjunction with straw mulch. State application rate/seed mixture on plans. Supplemental irrigation may be required during dry periods.
- Hydroseeding mixtures shall conform to the Federal Seed Act, the Federal Noxious Weed Act, and applicable state and local seed and noxious weed laws.
- Avoid use of hydroseeding in areas where it would be incompatible with future earthwork activities and would have to be removed.
- Hydroseeding can be applied prior to straw mulch or in a mixture of fiber, seed, etc. Application prior to straw mulch ensures maximum direct contact of the seeds to the soil. If seed is applied in a mixture, increase the seed rate to

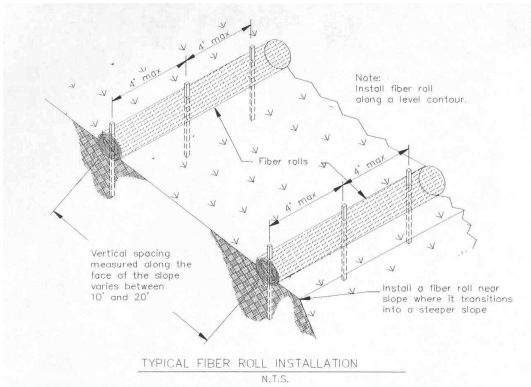
compensate for all seeds not having direct contact with the soil.

- Prior to application, roughen the area to be seeded with the furrows trending along the contours.
- Each seed bag shall be delivered to the site sealed and clearly marked as to species, purity, percent germination, dealer's guarantee, and dates of test. The container shall be labeled to clearly reflect the amount of Pure Live Seed (PLS) contained. All legume seed shall be pellet inoculated. Inoculant sources shall be species specific and shall be applied at a rate of 2 lb of inoculant per 100 lb seed.
- Commercial fertilizer shall conform to the requirements of the California Food and Agricultural Code. Fertilizer shall be pelleted or granular form.
- Follow up application shall be made as needed to cover weak spots and to maintain adequate soil protection.
- Avoid over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.

FIBER ROLLS:

- Use minimum 8 in. diameter rolls.
- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls shall be placed at a maximum interval of 20 ft.
  - Slope inclination of between 4:1 and 2:1 (H:V): Fiber rolls shall be placed at a maximum interval of 15 ft.
  - Slope inclination of 2:1 (H:V) or greater: Fiber rolls shall be placed at a maximum interval of 10 ft.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into a 2 to 4 in. deep trench with a width equal to the diameter of the fiber roll. Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center. Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls shall be abutted securely to one another to provide a tight joint.
- Fiber rolls are typically left in place. If fiber rolls are removed, collect and dispose of sediment accumulation and fill and compact holes, trenches, depressions or any other ground disturbance to blend with adjacent ground.
- Refer to installation detail below:





INSPECTION AND MAINTENANCE REQUIREMENTS (notes to be shown on the plans)

- Inspect erosion control applications prior to forecast rain, daily during extended rain events, after rain events, weekly during the rainy season, and at two-week intervals during the non-rainy season.
- Areas where erosion is evident shall be repaired. Straw mulch and hydroseed shall be re-applied as soon as possible. Care shall be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of straw mulch and hydroseed. Repair of replace split, torn, unraveling, or slumping fiber rolls.
- Reapplication of straw mulch and tackifier may be required to maintain effective soil stabilization over disturbed areas and slopes.
- Where seeds fail to germinate, or they germinate and die, the area must be re-seeded, fertilized, and mulched within the planting season, using not less than half the original application rates.
- Irrigation systems, if applicable, shall be inspected daily while in use to identify system malfunctions and line breaks. When line breaks are detected, the system must be shut down immediately and breaks repaired before the system is put back into operation. Irrigation system shall be inspected for complete coverage and adjusted as needed to maintain complete coverage.
- Sediment shall be removed from fiber rolls when sediment accumulation reaches one-half the designed sediment storage depth, usually one-half the distance between the top of the fiber roll and the adjacent ground surface. Sediment removed during maintenance may be incorporated into earthwork on the site or disposed at an appropriate location.

ADDITIONAL AGENCY REQUIREMENTS

- If one or more acres of ground is disturbed, a permit must be obtained from the State Water Resources Control Board (SWRCB) prior to construction. Contact Scott Zaitz with SWRCB at (530) 224 -4784 for more information.
- If property is located above 300 ft. elevation and excavation exceeds 1,000 cubic yards or 10 feet of vertical depth in either excavation or fill, a grading permit may be required. Contact the Butte County Land Development Division at (530) 538-7266 for more information.