

Erosion Control Notes

All erosion control plans shall be in accordance with City of Lake Elsinore Ordinance Nos. 1237, 772, 529, 1004, construction site Best Management Practices (BMP's) and standards outlined within the Lake Elsinore Design Manual. No grading permit shall be issued without an erosion control plan approved by the City Engineer. The erosion control plan shall include details of protective measures, including desilting basins or other temporary drainage or control measures, or both, as may be necessary to protect the water quality of receiving water bodies or to protect adjoining public and private property from damage from erosion, flooding or the deposition of mud or debris which may originate from the site or result from such grading operations.

The following Erosion Control and NPDES notes as worded with blanks filled in, shall be placed on the plans:

1. All erosion control plans shall be in accordance with City of Lake Elsinore Ordinance Nos. 529, 772, 1237, 1004, construction site Best Management Practices (BMP's), and standards outlined within the Lake Elsinore Design Manual
2. The developer/contractor is responsible for any discharges by subcontractors.
3. In case of emergency, call _____ (responsible person) at _____ (24-hour phone number).
4. Devices to reduce erosion damage shall not be placed moved or modified without the approval of the Qualified SWPPP Developer, City Engineer, or in an emergency, by the person responsible for grading operations.
5. Areas that are cleared and graded shall be limited to only the portion of the site that is necessary for construction. The construction site shall be managed to minimize the exposure time of disturbed soil areas through phasing and scheduling of grading and the use of temporary and permanent soil stabilization.
6. Once disturbed, graded slopes exceeding a 3:1 ratio and/or ten (10) feet in height (temporary or permanent) shall be stabilized if they will not be worked within 7 days. During the storm season, all slopes shall be stabilized 24 hours prior to a predicted storm event. Construction sites shall be revegetated as early as feasible after soil disturbance and within 7-days of completion.
7. Fill slopes at the tract perimeter must drain away from the top of the slope at the conclusion of each working day.
8. The contractor shall be responsible and have signs posted on the site to warn against public trespass into areas where water is impounded.
9. Dust shall be controlled by watering or other methods approved by the City Engineer.
10. Placement of devices to reduce erosion damage within the development shall be shown on the approved plan.
11. Desilting facilities at all drainage inlets for the graded site shall be designed for a twenty-five (25) year, six (6) hour storm intensity. They must be detailed on the plans. Design and specific recommendations shall be submitted for the following:
 - a) Desilting basin volume based on gradient and nature of soils.

- b) The extent of all graded areas and identification of any temporary soil stabilization measures.
 - c) Size of desilting basin outlet pipe and overflow.
 - d) Dike requirements. Show minimum wall width, slope of walls, percent compaction, etc.
 - e) Outlet conditions from the desilting basin shall not exceed downstream limitations, with the exception of overflow, which is to be designed to provide capacity of 1.5 times the maximum design flow.
12. Necessary materials shall be available on-site and at convenient locations to facilitate rapid construction of temporary devices or to repair any damaged erosion control measures when a 50% chance or greater of rain within a 48 hour period is forecast for Lake Elsinore by the National Oceanic and Atmospheric Agency (NOAA).
 13. BMP's shall be maintained and inspected daily to minimize and/or prevent the entrainment of soil in runoff from disturbed soil areas on Construction Sites. All removable protective erosion control devices shown shall be in place at the end of each working day when the four (4) day rain probability forecast exceeds forty percent (40%).
 14. After a rainstorm, all project generated silt and debris shall be removed from check berms, onsite public drains and pipes, drains and pipes of adjacent properties and desilting basins and the basins pumped dry. Any graded slope BMP's damaged during a rainstorm shall also be immediately repaired. Failure to provide effective maintenance may result in penalties.
 15. Discharging of contaminated soils via surface erosion is prohibited.
 16. Construction access points shall be stabilized with a combination of rock and shaker plates year-round to prevent track-out. Routine street sweeping shall be performed on all paved streets where tracking is observed. Vacuum sweepers shall be used when street sweeping becomes ineffective.

NPDES / Storm Water Pollution Notes

1. For projects that require coverage under the General Construction Permit, the property owner is responsible for ensuring that a Qualified SWPPP Practitioner (QSP) and Qualified SWPPP Developer (QSD) implement and maintain the SWPPP-approved, pre-qualified BMP's from the California Storm water Quality Association (CASQA) handbook / website for construction to retain sediments and pollutants of concern from areas disturbed onsite to the maximum extent practicable during ANY phase of construction operations. For all other projects, the property owner is responsible for ensuring that BMP's for construction are implemented to retain sediments and pollutants of concern from areas disturbed onsite to the maximum extent practicable. The erosion control measures include those shown on this plan as well as any additional erosion control measures dictated by field conditions to prevent erosion and/or the introduction of pollutants into existing public streets and/or onto adjacent properties during ANY phase of construction.

2. For projects that require coverage under the General Construction Permit, the Storm Water Pollution Prevention Plan (SWPPP) shall be kept on-site and made available upon request of a representative of the Regional Water Quality Control Board (RWQCB) - Santa Ana Region and/or the City of Lake Elsinore.
3. Construction sites shall be maintained in such a condition that an anticipated storm does not carry wastes or pollutants off the site. Discharges of material other than storm water (non-storm water) are prohibited except as authorized by an individual NPDES permit under the statewide General Permit – Construction Activity.
4. Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, sealants, solvents, detergents, glues, lime, pesticides, herbicides, fertilizers, wood preservatives, and asbestos fibers, paint flakes or stucco fragments; fuels, oils lubricants, and hydraulic, radiator or battery fluids; concrete and related cutting or curing residues; floatable wastes; wastes from engine/equipment steam cleaning or chemical degreasing; wastes from street cleaning; and super-chlorinated potable water from line flushing and testing. During construction, disposal of such materials should occur in a specified and controlled temporary area on-site physically separated from potential storm water runoff, with ultimate disposal in accordance with local, state and federal requirements.
5. Runoff from equipment and vehicle washing shall be contained at construction site and must not be discharged to receiving waters or the local storm drain system.
6. Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented to eliminate or reduce transport from the site to streets, drainage facilities, or adjoining properties by wind or runoff.
7. Material storage and staging areas shall be established. Fuel tank, portable toilets, liquids, gels and powders shall have secondary containment and be stored away from all private / public storm water conveyance systems, sidewalks, rights-of-ways and flow-lines.
8. All portable mixers shall have plastic liners underneath with gravel bags placed on the down-hill side of the liners to contain discharges.
9. Controlled street washing will only be allowed prior to the application of asphalt seal coats and only when all pertinent drainage inlets are protected.
10. All construction contactors and subcontractor personnel are to be made aware of the required BMPs and good housekeeping measures for the project site and any associated construction staging areas.
11. Discharging contaminated groundwater produced by dewatering groundwater that has infiltrated into the construction site is prohibited. Discharging non-contaminated groundwater produced by dewatering activities may require a National Pollutant Discharge Elimination System (NPDES) permit from the Regional Water Quality Control Board.
12. Storm water runoff shall not be directed over any slopes without permanent down drains installed. Erosion and sediment controls including maintenance are required on all exposed slopes until sufficient permanent landscaping has been established. 100% slope protection must be in place prior to the issuance of the final certificate of occupancy.

13. Vegetation clearing and brushing activities shall not be initiated during the wet season on any sites which are not adequately protected with desilting basins or other temporary drainage or control measures.
14. Stockpiles of soil shall be properly secured with BMP's to eliminate or reduce sediment transport from the site to streets, drainage facilities or adjacent properties.
15. Stockpiles of soil shall be properly contained to eliminate or reduce sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking or wind. Inactive for a period of 14 days or more shall be covered; active stockpiles shall be covered prior to a forecasted rain.
16. For project requiring coverage under the Construction General Permit, special attention shall be given to preparation and installation of the Rain Event Action Plan (REAP) as required based on site Risk Level or as mandated by the Santa Ana Regional Board NPDES Permit, General Permit – Construction Activities.
17. At the end of each day of construction activity, all construction debris and waste materials shall be collected and properly disposed of in covered trash or covered recycle bins.
18. This site has obtained a National Pollution Prevention Elimination System (NPDES) permit to regulate municipal and industrial storm water discharges.
NPDES WDID # _____ DATE WDID ISSUED: _____
19. The undersigned civil engineer, a qualified QSP and/or QSD will review placement of erosion control and insure that work is in accordance with the approved plans.

(Signature) (RCE No.) (Exp) (Date)