



City of Santa Clarita
Engineering Services Division
23920 Valencia Boulevard
Santa Clarita, California 91355

GRADING CORRECTION SHEET

<u>MC#</u>	<u>Assessor's Parcel No.</u>	<u>Tract/Parcel Map</u>	<u>Lot No's.</u>	<u>Address</u>
Master Case No.				
<u>ENG</u>	<u>GRA</u>			
Project No.	Case No.	Volume (cut or fill, whichever is greater, plus over-ex)		
<u>Owner</u>	<u>Telephone No.</u>	<u>e-mail address</u>	<u>Plan Check No. / Date</u>	

			1	
<u>Design Engineer</u>	<u>Telephone No.</u>	<u>e-mail address</u>	2	
			3	
			4	
<u>Plan Reviewer</u>	<u>Telephone No.</u>	<u>e-mail address</u>		

* Send request to GIS Division to create shape in City's GIS mapping system for this grading case.

A. GENERAL INFORMATION

1. Prior to issuance of a Grading Permit, the plans for the proposed grading require information and corrections indicated by the items circled below.
2. This Grading Correction Sheet shall be returned with the red-lined set and two sets of revised plans when revisions have been made.
3. The City's approval of plans does not permit the violation of City codes, ordinances or state laws.
4. Counter consultations are not guaranteed unless scheduled in advance with the Plan Reviewer.
5. The numbers following the instructions below refer to the latest edition of the City's Unified Development Code (e.g. 17.81.010).
6. The Grading Inspector shall be notified a minimum of 48 hours in advance of the date and time of the Pre-Grading Meeting.
7. Equipment shall not be brought to the site and work shall not commence prior to obtaining a Grading Permit.
8. Forms are available on the City's website at <http://www.santa-clarita.com/city-hall/departments/public-works/engineering-services/engineering-services-forms#grading>
9. Storm Water Quality Management packets are available on the City's website at <http://www.santa-clarita.com/city-hall/departments/public-works/engineering-services/engineering-services-forms#SUSMP>

B. FEES AND BONDS

Prior to issuance of Grading Permit, the applicant shall:

1. Post a Grading Bond in the amount of \$ _____ (17.84.010)
2. Submit payment for the following fees:
 - a) Bond Processing \$ _____
 - b) Grading Plan Review \$ _____
 - c) Soils Report Review \$ _____
 - d) USMP Review \$ _____
 - e) SWPPP Review \$ _____
 - f) Erosion Control Plan Review \$ _____
 - g) Grading Inspection & Permit \$ _____
 - h) Record Management \$ _____

C. OUTSIDE AGENCY APPROVALS

Los Angeles County

1. Submit LACDPW's approval letter (Green Sheet) for publicly maintained storm drains.
2. Submit a copy of the Hydrology Study stamped 'Approved' by LACDPW.

U.S. Army Corps of Engineers and California Department of Fish & Wildlife

Obtain approval for disturbance of any resource identified on a United States Geological Survey map as a "blue line" watercourse or any waterway otherwise identified as a significant water resource, or submit a non-jurisdictional letter from each agency.

Fire Department

Obtain a permit to operate grading equipment in "Very High Fire Hazard Severity Zone" (formerly Fire Zone 4). Call the Fire Prevention Unit at (661) 286-8821 and you will be directed to the appropriate jurisdictional fire station to obtain a permit.

Regional Water Quality Control Board (RWQCB)

If the project site is 1 acre or more, submit a Notice of Intent (NOI) to acquire a Waste Discharge Identification (WDID) number. Note: this shall be done after the SWPPP is approved by the City. (For small projects constructed during non-rainy season, submit an exemption/waiver from the Regional Board)

D. CITY APPROVALS

Planning (661) 255-4330

1. Obtain preliminary/final approval for Irrigation and Landscape Plan.
2. Obtain a Minor Use Permit for import or export of 10,000-100,000 cubic yards of earth over City roads. With the application for the Minor Use Permit, the applicant shall submit a Haul Route Plan indicating 1) the proposed haul route, and 2) the point(s) of access to/from public streets, and 3) the Grading Permit for the other site to/from where the dirt will be imported/exported. (17.49)
3. Obtain a Conditional Use Permit for more than 100,000 cubic yards of materials moved within site or tract boundaries, whether filed as one permit, or the cumulative total of more than one permit, on the same lot or parcel of land within a one-year period. (Section 7006(b) with reference to Section 22.21.10 of the Planning and Zoning Code)
4. Obtain Hillside Development Review for grading over 100 cubic yards in a hillside area. (17.51.020 C)
5. Obtain an Oak Tree Permit for oak trees located on and within two hundred feet of the project.
6. For single lot grading plans: An environmental assessment is necessary to determine the type of documentation needed to satisfy the requirements of the California Environmental Quality Act (CEQA). Complete and submit an Initial Study Questionnaire.

Urban Forestry (661) 286-4078

Obtain an Oak Tree Impact Assessment for oak trees located on and within two hundred feet of the project.

Building & Safety (661) 255-4935

Obtain a building permit for all retaining walls shown on the Grading Plan.

Engineering Services (661) 286-4060

1. Provide evidence that the site is a legal building site. Submit a copy of the recorded Final Map or Certificate of Compliance.
2. Submit an Acknowledgment to Employ Consultants Form regarding the employment of all technical consultants.
3. Submit a Dust Control Compliance Statement.
4. Submit for review and approval an Urban Storm Water Mitigation Plan (USMP). (LAWQCB, Order R4-20120-175)
5. If the project site is 1 acre or more, submit for review and approval a Storm Water Pollution Prevention Plan (SWPPP).
6. If the project site is less than 1 acre, submit for review and approval an Erosion Control Plan.
7. A revision to the Street Plan is required for _____
8. A revision to the Street Light Plan is required for _____
9. A revision to the Sewer Plan is required for _____
10. A revision to the Storm Drain Plan is required for _____
11. An Easement Document is required for _____
12. An RUA Document is required for _____
13. An Acceptance of Drainage Document is required for _____
14. A Street Vacation Document is required for _____

Note: An Encroachment Permit is required for 1) all work within the public right-of-way and, 2) publicly maintained sewer and storm drain systems on private property.

E. GRADING

General

1. Submit a copy of the Final Conditions of Approval.
2. Submit a copy of the Tentative Tract Map approved by the Planning Division (with Planning's approval stamp).
3. Submit a copy of the Site Plan approved by the Planning Division (with Planning's approval stamp).
4. Submit a copy of the approved Oak Tree Report, if required.
5. The project site is in Flood Zone: A AO AE X-SHADED D No action is required _____ Contact Plan Inspector for requirements
6. If project includes Public Street Improvements, Rough Grading plan cannot be approved without the street plans far along in the review process.

7. Submit Corner Sight Distance study, as necessary.
8. Submit earthwork calculations signed and stamped by Engineer. The calculations shall include cut, fill, and over-excavation.
9. Grading plans can not be approved until the hydrology report and storm drain plans have been approved.

Soils/Geotechnical Investigation Report

1. Geology and Soils Reports shall be reviewed and accepted by the City prior to approval of the Grading Plan.
2. Submit two copies of the Soils Report. Both copies shall be wet stamped and signed by the Geologist and Geotechnical Engineer of record.
3. The report shall indicate the date the report was prepared.
4. The report shall be less than one year old.
5. The report shall be based upon the proposed grading plan.
6. The report shall provide information on the nature, distribution, physical, and engineering properties of the soils on-site and/or to be used as fill, and shall include recommendations on grading procedures.
7. The Geotechnical Report shall comment on the depth of cut and/or fill, and the depth and limits of over-excavation.
8. All recommendations in the Soils Reports shall be incorporated into the Grading Plan.
9. Properties within, but not limited to, the seismic hazard zone shall be evaluated for potential seismically induced liquefaction, soil instability, and earthquake induced landslides. (17.83.010 F,G)
10. Submit the final (City accepted) Soils Report and all addendums in pdf format.

Grading Plan Requirements

1. The City's Grading Approval Signature Block, as shown on Page 8, shall be plotted in the lower right corner of every sheet.
2. A revision block, as shown on Page 8, shall be included on every sheet.
3. Do not use a triangle as the shape for construction notes; a triangle is the symbol used for revisions to plans after they have been approved by the City.
4. City approval of grading plans will only be given on original plans.
5. After City approval of the grading plans, submit in pdf format along with 2 hard copies.
6. Grading plans shall be prepared by a registered civil engineer. The engineer shall sign and stamp every sheet of the grading plans prior to City approval. (Note: Architects may prepare site grading and drainage plans per Section 16 of the 2000 California Architects Board Information Guide if it is within their qualified technical education, training and experience; documented proof of the architect's education shall be submitted with the plan submittal.)
7. The geologist and geotechnical engineer shall sign and stamp every sheet of the grading plan prior to City approval.
8. The scale to be used for grading plans shall be 1"=40', 1"=30', 1"=20', 1"=10' or 1"=5'.
9. Contour intervals shall be 5' maximum.

The following information shall be shown on the Grading Plans:

Items 1 through 11 below shall be shown on Sheet 1

1. Vicinity sketch or other means of adequately indicating the site location (include north arrow).
2. Standard Grading Notes and SWPPP Notes (see pages 5 thru 7).
3. Benchmark information. (Note: Grading plans should be prepared using the adjusted 2009 B.M.)
4. Source and date of the contours for the existing topography.
5. Quantity of material to be cut, filled, and over-excavated.
6. Quantity of material to be imported or exported to/from the site.
7. Name, address and telephone number of the Project Geologist/Geotechnical Engineer.
8. Title and date of the soils report(s) and addendums to the soils report(s).
9. Index of sheets.
10. Statement of who will be responsible for slope maintenance including drainage devices. (Note: This information may be required to be recorded.) (17.87.020 G)
11. For projects that are under one acre, add the following statement under the Storm Water Pollution Plan notes:

As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name _____ Signature _____ Date _____
 (Owner or authorized agent of the owner) (Owner or authorized agent of the owner)

12. North arrow and scale, on every sheet as applicable.
13. Cross sections of streets that are within the site.

14. Cross sections of streets that are adjoining the site. (Note: This is required for reference even if no work is to be done on the adjoining streets.)
15. Geologic information and cross sections.
16. Boundary lines of the property on which the work is to be performed. The boundary lines shall be clearly labeled with bearings and distances.
17. Each lot or parcel of land into which the site is proposed to be divided.
18. Proposed uses of each lot or parcel of land.
19. Location of any existing and proposed structures on the site.
20. Location of any buildings and structures on adjacent land which are within fifteen feet of the property line.
21. Locations and protected zones of all oak trees located on the project site and within 200 feet. Approximate extent of tree drip-line shall be shown to scale.
22. Accurate contours showing the topography of the existing ground for the entire site.
23. Show a sufficient area adjacent to the property to clearly show drainage patterns.
24. Finish contours for proposed grading.
25. Limits of keyways and buttress fills.
26. Location of rock disposal areas and any other special features.
27. Any fill areas that are uncertified shall be clearly outlined on the plans and the following note shall appear prominently: Fills are uncertified and unsuitable for the support of structure. (Note: An RUA shall be recorded for these areas.)
28. Show and label all public and private easements (existing and proposed).
29. A Letter of Permission is required for grading over all easements.
30. A notarized Letter of Permission is required for grading outside of the property lines/tract boundary. (Note: A title report may be required to be submitted to verify owner of property.)
31. A notarized Acceptance of Drainage Form is required if drainage is being diverted to an adjacent property. This document shall be recorded. (Note: A title report may be required to be submitted to verify owner of property)
32. The following Conditions of Approval shall be addressed: _____
33. The Grading Plan does not conform to the Approved Site Plan/Tentative Map. Either revise the Grading Plan to match the approved plan or submit a revised Site Plan/Tentative Map with Planning's approval stamp.
34. For single lot grading plans: Provide a statement signed by the owner or engineer verifying that the owner is aware that fire department access road requirements will be determined prior to issuance of building permits. Add the following note to the plan "*Fire department access road requirements cannot be determined until a building permit application is filed*".

General Slope Requirements

1. Show top and toe of slopes to scale.
2. Specify proposed steepness of cut and fill slopes on plan (ratio of horizontal to vertical distance).
3. Indicate cut and/or fill slope areas by shading.
4. Show location of cut/fill lines and daylight lines.
5. Show top of slope and toe of slope setbacks from property lines and building locations which conform to minimum requirements of Section 17.86.050.
6. For slopes that are taller than 5', the toe of slope shall be set back 2' from the back of walk or a slough wall is required. Slough walls shall be two blocks high and located entirely outside of the public right of way (including the wall footing). A drainage swale is required behind the slough wall.
7. Graded slopes shall not extend into the public right-of-way.

Fill Slope Requirements

1. Fill slopes are shown with a surface gradient steeper than 2:1. The registered Geotechnical Engineer of record shall submit satisfactory soil test data and engineering calculations to substantiate the stability of all such slopes and slope surfaces under conditions of saturation. (17.86.030 F)
2. Fill placed over existing terrain steeper than 5:1 shall be supported on horizontal benches cut into bedrock or other competent material. Show detail and dimensions of such benching to be provided. (17.86.030 C) The bench under the toe shall be at least 10 feet wide and 2 feet deep, or as recommended in the soils report.
 - a. The area beyond the toe of the fill shall be sloped for sheet overflow, or a paved drain shall be constructed thereon. (17.86.030 C)
3. Show toe of fill slope setback at least six feet horizontally from the top of an existing slope steeper than 3:1. A lesser setback may be approved if recommended by the Soil Engineer or Engineering Geologist and approved by the City Engineer. (17.86.030 G)
4. Combination fill-over-cut slopes cannot be approved unless specifically recommended by the Geotechnical Engineer and Geologist and a cross-sectional detail of each slope is shown on the plan.
5. Fills may not toe out on slopes steeper than 2:1. (17.86.030 B)
6. Show subdrains under all fills to be placed in natural drainage courses unless the omission of such drains is specifically recommended by the Geotechnical Engineer and is acceptable to the City Engineer. (17.86.030 B)

7. Provide a detail of subdrain construction and materials as recommended by the Geotechnical Engineer. (17.86.030 B) The outlet shall be embedded in concrete to protect the outlet.
8. Show location and cross-sectional detail of all buttress fills, blanket fills (seals) and/or other similar protective measures recommended by the project Geologist or Geotechnical Engineer.

General Drainage Requirements

1. Show proposed drainage pattern of graded areas.
2. Drainage shall not sheet over graded slopes steeper than 5:1.
3. Concentrated drainage shall not discharge onto any graded slope.
4. All drainage devices which are to be constructed under separate plans shall be referenced to those plans.
5. Easements for publicly maintained drainage systems shall be outlined on the grading plan.
6. Access shall be provided to allow maintenance of drainage devices.
7. All cross lot drainage devices not publicly maintained shall be maintained by an entity such as a homeowners' association. Note the entity on the plan. (17.87.010 H)
8. For privately maintained drainage systems, show details or reference standard drawings for catch basins, inlet structures and outlet structures.
9. Provide a berm, swale or other device at the top of all cut and fill slopes to prevent surface waters from flowing onto the face of slopes. (17.87.010 C)
10. Berms used for slope protection shall be not less than 12 inches above the level of the pad and shall slope back at least four feet from the top of the slope. (17.87.010 C)
11. Show paved interceptor drains along the top of all cut slopes where the height of the cut is greater than five feet measured vertically.
12. Interceptor drains shall be paved with a minimum of three inches of concrete or gunite and reinforced as required for drainage terraces. They shall have a minimum depth of 12 inches and a minimum width of 30 inches measured horizontally across the drain. The slope of the drain shall be 2 percent minimum. (17.87.010 C)
13. Access is required at all points of closed drains where the grade changes from a steep to a relatively flat slope. Detail the access device.
14. Show riprap or a similar energy dissipater for drainage devices that discharge onto natural ground.
15. Show the location, size and type of all BMP devices, including stenciling, as shown on the approved USMP.

Lot Drainage

1. Show the finished elevations at the corners of the lot pad (building site) such that the pad area will have a minimum slope of two percent toward the intended drainage outlet. (17.87.010 D)
2. Show the graded swale high point elevation and swale elevations at proposed building corners. All graded swales must have a minimum of two percent slope towards the street or designed drainage outlet.
3. Show typical side swale detail for adjacent lots of the same elevation (plan view and cross-sections).
4. Show typical side swale detail for adjacent lots of different elevations (plan view and cross-sections).
5. Show detail of the method to be used in side swales when a stoop, fireplace, or other obstruction extends within five feet of the property line.

Terrace Drainage

1. Slopes steeper than 3:1 shall be provided with paved drainage terraces at vertical intervals of 25 feet for slopes over 30 feet high. Such terraces shall have a minimum width of eight feet (total horizontal distance) and depth of one foot at the flow line. (17.87.010 B)
2. For slopes steeper than 3:1 and over 100 feet high, one drainage terrace near mid-height shall be not less than 20 feet in width. (17.87.010 B)
3. Show flow line elevations of all drainage terraces at each change in grade and at approximate 100 foot intervals.
4. Terrace drains shall have a minimum slope of 5% and a maximum slope of 12%. There shall be no reduction in grade along the direction of flow unless it can be shown that the velocity of flow will be such that the slope debris will remain in suspension. (17.87.010 B)
5. Drainage terraces shall be paved with concrete or gunite not less than three inches thick reinforced with 6-inch x 6-inch No.10 x No.10 welded wire fabric or equivalent reinforcing centered in the concrete slab. Show detail. (17.87.010 B)
6. The maximum length of terrace or swale that may contribute to any down drain is approximately 300 feet. (17.87.010 B)
7. Show locations, dimensions and details of splash walls.
8. Provide open down drains unless otherwise approved by the City Engineer.
9. Provide detail of transition structures for open drains where the grade changes from a steep to a relatively flat slope.

F. GRADING PLAN NOTES

The following notes shall be shown on Sheet 1 of the Grading Plans:

General Notes

1. A copy of the grading permit and approved grading plans shall be in the possession of a responsible person and available at the site at all times.
2. Any modifications of, or changes to, approved grading plans shall be approved by the City Engineer prior to implementation in the field.

3. All graded sites shall have drainage swales, berms, and other drainage devices approved at the rough grading stage.
4. The Field Engineer shall set drainage stakes for all drainage devices.
5. All storm drain work shall be done under continuous inspection by the Field Engineer. Weekly status reports shall be submitted by the Field Engineer to the Engineering Services Division.
6. Final grading shall be approved before occupancy of buildings will be allowed.
7. Construction of the retaining wall(s) shown on these plans requires a permit from the Building & Safety Division.
8. Separate plans for temporary drainage and erosion control measures to be used during the rainy season must be submitted prior to October 1. The erosion control devices shown on said plans shall be installed by no later than November 1 and maintained in operable condition until April 15 of the following year. (17.90.030)
9. All subdrain outlets shall be surveyed for line and elevation. This shall be shown on the as-built grading plan included in the final geotechnical and geology report.
10. The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control shall consist of jute netting and effective planting, or other devices satisfactory to the City Engineer. (17.87.020 A)
11. A preventive program to protect the slopes from potential damage from burrowing rodents is required. Owner shall inspect slopes periodically for evidence of burrowing rodents and at first evidence of their existence shall employ an exterminator for their removal. (17.87.020 H)
12. Where necessary, check dams, cribbing, riprap, or other devices or methods shall be employed for erosion control. Jute netting shall be immediately installed on any slopes having a vertical height of seven feet or more and steeper than 3:1 (H:V) to minimize or control erosion problems.
13. Roof drainage shall be diverted from graded slopes.
14. All construction and grading within Storm Drain easement shall be per approved Storm Drain plan.

Fill Notes

15. All fill shall be compacted to the following minimum relative compaction criteria:
 - a. 90 percent of maximum dry density within 40 feet below finish grade
 - b. 93 percent of maximum dry density deeper than 40 feet below finish grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the Geotechnical Engineer.

The relative compaction shall be determined by ASTM Soil Compaction Test D1557-91, where applicable; where not applicable a test acceptable to the City Engineer shall be used. (17.86.030 E)
16. Field density shall be determined by a method acceptable to the City Engineer, however, a minimum of 10 percent of the required density tests shall be obtained by the Sand Cone Method (ASTM D1556). The required 10 percent by Sand Cone Method shall be uniformly distributed throughout the depths and limits of the fill.
17. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill in accordance with the following minimum guidelines:
 - a. One test for each two-foot vertical lift.
 - b. One test for each 1,000 cubic yards of material placed.
 - c. One test at the location of the final fill slope for each building site (lot) in each four-foot vertical lift or portion thereof.
 - d. One test in the vicinity of each building pad for each four-foot vertical lift or portion thereof.

Sufficient tests of fill soils shall be made to verify compliance of the soil properties with the design requirements including soil types and shear strengths. The results of such testing shall be included in the reports required by Section 17.86.030 I.
18. No fill shall be placed until stripping of vegetation, removal of unsuitable soils, and installation of subdrains (if any) have been inspected and approved by the Geotechnical Engineer. (17.86.030 B)
19. No rock or similar material greater than 12 inches in diameter shall be placed in the fill unless recommendations for such placement have been submitted by the Geotechnical Engineer and approved in advance by the City Engineer. (17.86.030 D)
20. Continuous inspection by the Geotechnical Engineer or his responsible representative shall be provided during all fill placement and compaction operations where fills have a vertical height or depth greater than 30 feet or slope surface steeper than 2:1. (17.86.030 H)
21. Continuous inspection by the Geotechnical Engineer or his responsible representative shall be provided during all subdrain installations. (17.86.030 B)
22. Fill slopes in excess of 2:1 steepness ratio are to be constructed by the placement of soil at sufficient distance beyond the proposed finish slope to allow compaction equipment to be operated at the outer limits of the final slope surface. The excess fill is to be removed prior to completion of rough grading. (Other construction procedures may be used when it is demonstrated to the satisfaction of the City Engineer that the angle of slope, construction method and other factors will have equivalent effect). (17.86.030 E)
23. The Geotechnical Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the plan and applicable code requirements. (17.86.030 H)
24. The grading contractor shall submit the statement required by Section 17.88.010 L at the completion of rough grading.

Inspection Notes

25. The permittee or his agent shall notify the Engineering Services Division at least one working day in advance of required inspections at following stages of the work:
 - a. Pre-grade item. (17.88.010 G1)

- b. Initial. When the site has been cleared of vegetation and unapproved fill and it has been scarified, benched or otherwise prepared for fill. No fill shall be placed prior to this inspection. (17.88.010 G2)
- c. Rough. When approximate final elevations have been established; drainage terraces, swales and berms installed at the top of the slopes; and the statements required in Section 17.88.010 L have been received. (17.88.010 G3)
- d. Final. When grading has been completed; all drainage devices installed; slope planting established, irrigation systems installed and the Record Drawings (As-Built Plans), required statements, and reports have been submitted. (17.88.010 G4)
26. In addition to the inspection required by the Engineering Services Division for Regular Grading, reports and statements shall be submitted to the City Engineer in accordance with Section 17.88.010. –

Agency Notes

27. Secure permission from the Engineering Services Division for construction or grading within street right-of-way.
28. Grading in future street right-of-way shall be inspected by the City.
29. All work within the streambed and areas outlined on the grading plans shall conform to:
- Army Corp 404 Permit Number: _____
 - California Fish & Wildlife Permit Number: _____
30. A Storm Water Pollution Prevention Plan (SWPPP) shall be prepared and a copy available for review at the project site at all times. All measures outlined in the project SWPPP shall be implemented throughout the duration of construction.

Geology and Soils Notes

31. All recommendations included in the consultant's soil and geology reports shall be complied with and are a part of the grading specifications. (17.83.010 F)
32. Grading operations shall be conducted under periodic geologic inspection with monthly inspection reports to be submitted to the Engineering Services Division.
33. The Consulting Geologist shall approve rough grading by final report prior to approval by the City Engineer. The final report shall include an as-built Geologic Map.

Planting and Irrigation Notes

34. All cut slopes over five feet and fill slopes over three feet shall be planted with an approved ground cover and provided with an irrigation system as soon as practical after rough grading. (17.87.020 D)

Stormwater Pollution Plan Notes

1. Every effort shall be made to eliminate the discharge of non-stormwater from the project site at all times.
2. Eroded sediments and other pollutants shall be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses, or wind.
3. Stockpiles of earth and other construction-related materials shall be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials shall be stored in accordance with their listing and shall not contaminate the soil and surface waters. All approved storage containers shall be protected from the weather. Spills shall be cleaned up immediately and disposed of in a proper manner. Spills shall not be washed into the drainage system.
5. Excess or waste concrete shall not be washed into the public right-of-way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
6. Trash and construction-related solid wastes shall be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to inhibit sediments from being deposited into the public right-of-way. Accidental depositions shall be swept up immediately and shall not be washed down by rain or other means.
8. Any slopes with disturbed soils or denuded of vegetation shall be stabilized so as to inhibit erosion by wind and water.
9. The following BMP's as outlined in, but not limited to, the "Best Management Practice Handbook, California Stormwater Quality Task Force, Sacramento, California, the latest revised edition, may apply during the construction of this project (additional measures may be required if deemed appropriate by City inspectors):

Erosion Control

EC1 – Scheduling
 EC2 – Preservation of Existing Vegetation
 EC3 – Hydraulic Mulch
 EC4 – Hydroseeding
 EC5 – Soil Binders
 EC6 – Straw Mulch
 EC7 – Geotextiles & Mats
 EC8 – Wood Mulching
 EC9 – Earth Dikes and Drainage Swales
 EC10 – Velocity Dissipation Devices
 EC11 – Slope Drains

Temporary Sediment Control

SE1 – Silt Fence
 SE2 – Sediment Basin
 SE3 – Sediment Trap
 SE4 – Check Dam
 SE5 – Fiber Rolls
 SE6 – Gravel Bag Berm
 SE7 – Street Sweeping and Vacuuming
 SE8 – Sandbag Barrier
 SE9 – Straw Bale Barrier
 SE10 – Storm Drain Inlet Protection

Wind Erosion Control

WE1 – Wind Erosion Control

Equipment Tracking Control

TC1 – Stabilized Construction Entrance/Exit
 TC2 – Stabilized Construction Roadway
 TC3 – Entrance / Outlet Tire Wash

Non-Stormwater Management

NS1 – Water Conservation Practices
 NS2 – Dewatering Operations
 NS3 – Paving and Grinding Operations
 NS4 – Temporary Stream Crossing
 NS5 – Clear Water Diversion
 NS6 – Illicit Connection / Discharge
 NS7 – Potable Water / Irrigation
 NS8 – Vehicle and Equipment Cleaning
 NS9 – Vehicle and Equipment Fueling

NS10 – Vehicle and Equipment Maintenance
 NS11 – Pile Driving Operations
 NS12 – Concrete Curing
 NS13 – Concrete Finishing
 NS14 – Material and Equipment Use
 NS15 – Demolition Adjacent to Water
 NS16 – Temporary Batch Plants

Waste Management & Material Pollution Control

WM1 – Material Delivery and Storage
 WM2 – Material Use
 WM3 – Stockpile Management
 WM4 – Spill Prevention and Control
 WM5 – Solid Waste Management
 WM6 – Hazardous Waste Management
 WM7 – Contamination Soil Management
 WM8 – Concrete Waste Management
 WM9 – Sanitary / Septic Waste Management
 WM10 – Liquid Waste Management

CITY OF SANTA CLARITA
APPROVED
 FOR
 GRADING AND DRAINAGE
 UNDER TITLE 17
 UNIFIED DEVELOPMENT CODE

BY: _____ DATE: _____

This set of plans and specifications **MUST** be kept on the job at all times. It is unlawful to make any changes or alternations on same without permission from Engineering Services Division, City of Santa Clarita.

The stamping of these plans and specifications **SHALL NOT** be used as a substitute for permit or meant as an approval of any violation of the provisions of any City or County Ordinance or State Law.

No.	Revision	Revised by (Registered Engineer's Signature)	City Approval	Date