Appendix B

Site Plan, Building Review Process, and Green Ordinance Requirements
Applications must be submitted in person. Appointments are required to submit three or more applications. Please call (213) 974-6438 for an appointment. Incomplete applications will not be accepted.

### Checklist Summary (Refer to No. 14)

1. Completed application with original signature(s).
2. Three sets of folded plans (site plan, floor plans and elevations). For Coastal Zone, five sets of plans.
3. Minimum six (6) different color photos (no aerials).
4. Fees (cash, check or money order only). Make checks payable to “Los Angeles County”.

### 1. Subject Property (Sujeto Propiedad)

- Assessor’s Parcel Number:
- Property Address:
- Legal Description:

### 2. Project Description and Proposed Use (Descripción del Proyecto y El Uso Propuesto)

### 3. Project and Property Data (Datos de la Propiedad y Proyecto)

- Existing Use(s) and Structure(s) (square feet):
- Total number of existing residential buildings/units: _____
- Existing structure(s) to be demolished (if applicable):
- Proposed New Use(s) and Structure(s) (square feet):
- Total number of proposed residential buildings/units: _____

### 4. Record Owner (Dueño/a Registrado)  Applicant/Agent (Solicitante/Agente)

<table>
<thead>
<tr>
<th>Name (print):</th>
<th>Name (print):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Address:</td>
</tr>
<tr>
<td>City/State:</td>
<td>City/State:</td>
</tr>
<tr>
<td>Zip:</td>
<td>Zip:</td>
</tr>
<tr>
<td>Tel/Fax:</td>
<td>Tel/Fax:</td>
</tr>
<tr>
<td>E-mail:</td>
<td>E-mail:</td>
</tr>
<tr>
<td>Name (additional owner):</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
</tbody>
</table>
### 5. Project Data Continued (Datos de el Proyecto continuado)

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is grading proposed?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If yes, cubic yards Cut:</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>Fill:</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>Total grading (cut plus fill):</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>Will grading be balanced on-site?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If no, indicate quantities to be transported off-site. Export:</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>Import:</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>Natural and finished grade and finished floor must be depicted on the elevations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there slopes of 25% or more on the subject property?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If yes, topographic lines must be depicted on the site plan. A slope map may be required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposed maximum height of structure(s) from natural and finished grade:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the proposal meet all required setbacks?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If no, a yard modification is required. Specify what setback is to be modified and the proposed setback:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are retaining walls proposed?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If yes, submit wall cross-sections and elevations.</td>
<td></td>
<td></td>
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<tr>
<td>Water source:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sewer System:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Water</td>
<td></td>
<td></td>
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<tr>
<td>Private Well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Sewer</td>
<td></td>
<td></td>
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<tr>
<td>Shared well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shared Water Well application required for shared wells.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applying for a second unit?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If yes, all supplemental information must be attached.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applying for a density bonus?</td>
<td>□</td>
<td>☐</td>
</tr>
<tr>
<td>If yes, all supplemental information must be attached.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5. Residential Parking Data (Datos de Estacionamiento Residencial)

| Number of covered on-site spaces provided: | | |
| Number of uncovered on-site parking spaces provided: | | |
| Number of bike spaces¹ provided (1 space/10 units short-term spaces; 1/2 units long-term spaces): | | |

### 6. Commercial/Industrial Parking Data (Datos de Estacionamiento Comercial/Industrial)

<table>
<thead>
<tr>
<th>Existing or Proposed Use</th>
<th>Square Feet or Occupant Load</th>
<th>Spaces/ Square Feet (sf)</th>
<th>Required Parking</th>
<th>Proposed Parking</th>
<th>Required Bike Parking (space/ square feet)¹</th>
<th>Proposed Bike Parking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail</td>
<td>1/250 sf</td>
<td></td>
<td></td>
<td></td>
<td>1/5000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Medical Office</td>
<td>1/250 sf</td>
<td></td>
<td></td>
<td></td>
<td>1/20,000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Professional Office</td>
<td>1/400 sf</td>
<td></td>
<td></td>
<td></td>
<td>1/20,000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td>1/500 sf</td>
<td></td>
<td></td>
<td></td>
<td>1/20,000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Warehouse²</td>
<td>1/1,000 sf²</td>
<td></td>
<td></td>
<td></td>
<td>1/20,000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Restaurant³</td>
<td>1/3 occupants³</td>
<td></td>
<td></td>
<td></td>
<td>1/5000 ST, 1/10,000 LT*</td>
<td></td>
</tr>
<tr>
<td>Churches⁴</td>
<td>1/5 occupants⁴</td>
<td></td>
<td></td>
<td></td>
<td>1/50 occupants ST*</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1/100 occupants LT*</td>
<td></td>
</tr>
</tbody>
</table>

|             | Total Spaces:                |                          |                 |                 |                                             |
| Standard Spaces: |                              |                          |                 |                 |                                             |
| ADA Spaces:    |                              |                          |                 |                 |                                             |
| Compact Spaces⁵ |                              |                          |                 |                 |                                             |

¹ Bike space is 6’ length X 2’ width. ST is for ≤ 2 hrs duration for the public, LT is > 2 hrs for residents, employees, etc.
² A minimum of 80% of the floor area must be dedicated to warehouse use to apply the parking ratio of 1/1,000.
³ Parking for entertainment, assembly and dining are based on the occupant load determined by Building & Safety (minimum 10 spaces are required). Occupant load determination “Form A” from Building & Safety must be attached.
⁴ Parking for churches is based on the occupancy load of the largest assembly area determined by Building & Safety.
⁵ A maximum of 40% compact parking is allowed.
** Non-residential parking spaces shall not back over a sidewalk, public street, alley or highway.
*** Walls and landscaping are required for parking adjacent to front lot lines and certain side and rear lot lines.
8. Owner’s Consent* (Consentimiento del Dueño/a)

I, the owner of the subject property, have read, understand and consent to the submission of this application. If the applicant signs for the owner, please submit a letter of authorization from the owner with original signature(s):

Signature: ____________________________________   Print Name: _________________________   Date: __________
(ORIGINAL SIGNATURE SIGNED IN BLUE INK)

Signature: ____________________________________   Print Name: _________________________   Date: __________
(ORIGINAL SIGNATURE SIGNED IN BLUE INK)

*If the record owner is a company, corporation, or association, include a copy of Statement by Domestic Corporation.

* It is the responsibility of the owner to notify the Department of any changes in ownership during processing.

9. Applicant or Owner Certification (Certificación del Solicitante o Dueño/a)

I hereby certify that:

1. The information provided in this application, including all attachments, are accurate and correct,
2. I have carefully reviewed and signed with initials all items under Section No. 14 (pages 5-8) and included all applicable required information, and
3. I understand that the submittal of inaccurate or incomplete information and plans may result in processing delays and/or denial of my application.

Signature: ____________________________________   Print Name: _________________________   Date: __________
(ORIGINAL SIGNATURE SIGNED IN BLUE INK)

10. Oak Tree Certification (Certificación de Áboles Robles) (Pursuant to Chapter 22.56, Part 16)

Are there any oak trees on the subject property or next to the subject property?

☐ Yes  ☐ No

If yes, please check one of the following boxes:

☐ I certify that no activity will occur within five feet of any oak tree dripline (canopy) or within 15 feet of any oak tree trunk, whichever distance is greater. This applies to both oak trees located on the subject property AND oak trees next to the subject property. All oak tree dimensions, trunk diameter and canopy, are accurately depicted on the plans and drawn to scale.

☐ Activity will occur within five feet of any oak tree canopy or within 15 feet of any oak tree trunk and I have concurrently filed for an oak tree permit. All oak tree dimensions, including trunk diameter and canopy, are accurately depicted on the site plan and are drawn to scale.

Signature: ____________________________________   Date: ____________________________
(ORIGINAL SIGNATURE SIGNED IN BLUE INK)

11. Lobbyist Statement (Declaración de un Grupo de Presión)

The Los Angeles County Lobbyist Ordinance, effective May 7, 1993, requires certification that each person who applies for a County permit is familiar with the requirements or Ordinance No. 93-0031 (Lobbyist Ordinance), and that all persons acting on behalf of the applicant have complied and will continue to comply with the requirements of said Ordinance through the application process.

I hereby certify that I am familiar with the requirements of Ordinance No. 93-0031. I further understand that the making of such a certification, and compliance with this ordinance, shall be conditions precedent to the granting of the requested permit, license, contract or franchise.

Signature: ____________________________________   Date: ____________________________
(ORIGINAL SIGNATURE SIGNED IN BLUE INK)

LOBBYIST PERMIT NO(S) IF APPLICABLE: ________________________________________________________

12. Plan Distribution (Distribución de Planos) (check one box only)

Mail approved plans to: ☐ Record Owner ☐ Applicant/Agent  OR
Call for pick up: ☐ Record Owner ☐ Applicant/Agent
13. Yard Modification Burden of Proof (only required for a yard modification)*
(Carga de la Prueba para una Modificación de Yarda)

Los Angeles County Zoning Ordinance Section 22.48.180 authorizes the Director of Planning without notice or hearing to grant a modification to specified setback regulations of the Zoning Ordinance where topographic features, subdivision plans and other conditions create an unnecessary hardship or unreasonable regulation or make it obviously impractical to require compliance with the setback requirements. (See page 10 for additional requirements that must be submitted along with this application)

A. What topographic features, lot design or other conditions justify the setback modification? (If necessary attach additional pages)

B. Are other adjacent or neighboring properties enjoying setbacks similar to what you propose? If so, please list addresses, relevant setback, height and description of structure involved. Include photos and a vicinity map showing the location of all listed properties. (If necessary attach additional pages)
14. Application and Plan Certification  *(Certificación de Aplicación y Planos)*

Please review carefully and sign your initials next to all sections to certify that you understand and have addressed all requirements. The application and plans must comply with all applicable regulations.

Revise cuidadosamente y escribe su iniciales para reconocer que usted entiende y se ha cumplido con todos los requisitos. La aplicación y los planos deben de cumplir con todas las regulaciones aplicables.

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**General Information (Información General)**

___

**Fees (Cargos)**

The fees required for this application may not reflect the total fees required. You will be notified if additional fees are required. If you fail to pay fees as they are due, your application may be delayed and/or denied.

Puede que los honorarios requeridos para esta aplicación no reflejen los cargos totales. Usted será notificado si se requieren cargos adicionales. Si usted no paga los cargos adicionales cuando son debidos puede su aplicación se puede retrasar y/o negarse.

___

**Copyright (Copyright)**

All materials you submit in connection with this application may become public record subject to inspection and copying by the public. You acknowledge that you understand that the public may inspect and copy these materials and that some or all of the materials may be posted on the Department’s website. For any materials that may be subject to copyright protection, or which may be subject to sections 5500.1 and 5536.4 of the California Business and Professions Code, you represent that you have the authority to grant, and are granting, the County permission to make the materials available to the public for inspection and copying, in hardcopy or electronic format.

Todos los materiales que usted presente en relación con esta aplicación se pueden convertir en registros públicos sujetos a la inspección y copia del público. Usted manifiesta que entiende que el público puede inspeccionar y copiar estos materiales y se podrían publicar en el sitio web del departamento. Para los materiales que puedan ser objeto de protección del copyright, o que puedan ser sujetos a las secciones 5500.1 y 5536.4 del código de negocios y profesiones de California, usted manifiesta tener la autoridad necesaria para conceder permiso y está otorgando permiso al condado para hacer los materiales disponibles al público para inspección o para copiar.

___

**Right of Entry (Inspeccionar)**

You consent and expressly allow, authorize, and permit the County of Los Angeles to enter and inspect the subject property, with or without prior notice, to inspect, photograph, and/or process this application. No additional permission or consent to enter upon the subject property is necessary or shall be required. You further certify and warrant that you are authorized to, and hereby do, consent and allow such inspections on behalf of each and all owners of the subject property.

Usted da su consentimiento y autoriza expresamente al Condado de Los Ángeles para entrar e inspeccionar la propiedad, con o sin previo aviso, para inspeccionar, fotografiar y/o procesar esta aplicación. No será necesario y no se requerirá permiso o consentimiento adicional para entrar a la propiedad. Usted certifica y garantiza que está autorizado y por este medio, autoriza tales inspecciones en nombre de todos los dueños de la propiedad en cuestión.

___

**Approval (Aprobaciones)**

Approval only verifies that the project is consistent with the Zoning Ordinance. Review and approval by the Department of Public Works and any other regulatory agencies shall be required, as applicable.

Aprobaciones solamente verifica que el proyecto esta consecuentes con la reglamentación de zonificacion. El desarrollo actual requiere la aprobación del Departamento de Obras Publicas y cualquier otras agencias regulador, como pertinente.

___

**Zoning Violations (Violaciones de Zonificación)**

If there is a zoning violation on the property, plan review may be delayed and additional permits may be required. Any unpermitted structures or uses must either be removed or legalized at part of this application.

Si hay una violación de zonificacion en la propiedad, revisión del plano se va a demorar y permisos adicionales pueden ser requeridos. Cualquier uso o estructuras sin permisos deben de ser quitados o legalizados como parte de esta aplicación.

___

**Certificate of Compliance (Certificado de Conformidad)**

If a Certificate of Compliance (C of C) is required, it must be submitted prior to or concurrently with this application. An unconditional Certificate of Compliance or clearance of conditions must be recorded prior to approval.

Si un Certificado en Conformidad es requerido, la aplicación debe de someterse antes de o concurrente con la aplicación del plano del sitio. Un incondicional Certificado en Conformidad a un despeje de condiciones para un Certificado en Conformidad condicional deben de ser registrado antes de la aprobación del plano del sitio.
Changes (Cambios)

It is the responsibility of the owner to notify the Department in writing of any changes to the project. Any changes subsequent to planning approval will require additional planning review and payment of fees.

Es la responsabilidad del dueño de notificar el Departamento por escrito de cualquier cambios al propuesto proyecto. Cualquier cambio de los planos subsiguientes a la aprobación de planificación va a requerir una revisión adicional y un pago de cuotas.

Application (Aplicación)

Record Owner (Dueño Registrado)

The current property owner must sign the application or submit a letter of authorization with original signature in blue ink (photocopies or faxes will not be accepted). If the record owner is a Corporation, a copy of the Statement by Domestic Corporation is required verifying the signatory is authorized to sign.

El dueño de propiedad debe de firmar la aplicación o entregar una carta de autorización con la firma original en tinta azul (fotocopias o faxes no son aceptados). Si el dueño registrado es una corporación, se requiere una copia de la acta constitutiva de la empresa confirmando que el signatario esta autorizado a firmar.

Photographs (Fotografías)

Provide at least six different printed color photographs of the property. Do not submit aerial photos. Photographs must be labeled or numbered and referenced on a copy of the site plan in a photo key.

Proporcione por lo menos seis fotografías impresas diferentes de color del sujeto propiedad. No entregué aero-fotos. Fotografías deben de ser clasificados o numerados y referenciados en una copia del plano del sitio en una clave fotostática.

Building Permits and Assessor’s Building Description Blank (Permiso de Construcción y Permisos del Asesor)

Submit building permits and Assessor’s building description slip blanks for all existing buildings on the subject property. Visit your local Building and Safety office and regional Assessor’s office for copies.

Somete los permisos de construcción y documentos del Asesor para todos los edificios existentes en la propiedad. Para obtener copias, visite su oficina local de Obras Publicas y oficina regional del Asesor.

Second Units (Segundas Residencias)

Second units must meet all requirements pursuant to Chapter 22.52, Part 16.

Segunda residencias deben de cumplir con todos los requisitos según el Capítulo 22.52, Parte 16.

Infill for Residential Projects (Estudio de densidad para proyectos residenciales)

For projects that exceed the maximum residential density allowed by the General Plan land use category up to one General Plan category, an Infill Burden of Proof is required. Also submit a 500-foot radius map showing the subject property and the gross density of all residential parcels within the radius. There is no guarantee of approval for infill requests.

Para los proyectos que excedan el máximo densidad residencial permitido por el Plan General de uso de la tierra hasta la categoría uno del Plan General, un estudio de densidad residencial es requerido. También se requiere un mapa de radio de 500 pies que demuestra la propiedad en cuestión y la densidad de todas las parcelas residenciales dentro del radio. No hay ninguna garantía de aprobación para este tipo de petición.

Shared Water Wells (Posos de Agua Compartidos)

A separate application must be filed for a shared well. Approval of this project does not constitute a shared well approval.

Una aplicación separada debe de ser presentado para los posos de agua compartidos. La aprobación de este proyecto no constituye una aprobación por un poso de agua compartido.

Site Plan / Elevation Plan / Floor Plan (Planos del sitio/elevacion/del piso)

Site Plan (Planos del Sitio)

Three (3) sets of plans (five for projects in the Malibu Coastal Zone): each set must include a site plan, floor plan, and elevations drawn to scale (for example 1/8”=1’) on paper approximately 2’ x 4’ in size. Each set must be stapled together and folded separately to fit in an 8 1/2” X 14” folder. Depict all onsite and offsite oak trees on the plans (see oak tree diagram). Depict all property lines, and location, height and size of all existing and proposed buildings, structures, fences, walls, and driveways.

Tres (3) juegos de planos (cinco para proyectos en la zona costal de Malibu): cada juego debe incluir un plano del sitio, del piso y elevaciones a escala indicado (por ejemplo 1/8” = 1’) en papel de aproximadamente 2’ por 4’ de tamaño. Cada juego debe ser grapado y doblado a un tamaño de 8” x 14”. Dibujar cada juego separado. Describe en los planos todos los arboles de roble localizados en la propiedad y fuera del sitio (vea el diagrama de arboles robles adjunto para las instrucciones). Describe todas las líneas de propiedad y la ubicación, altura y el tamaño de todos los edificios existentes y propuestas, estructuras, cercas, paredes y caminos de entrada.
**Drawing Size** *(Tamaño del Dibujo)*

Plans will be rejected if the paper size is too small to show all required information. The common size is about 2 feet X 4 feet. If the property is large, provide a detailed site plan of the development area and include a dimensioned inset map of the entire property.

Los dibujos van hacer rechazados si el tamaño del papel esta muy pequeño en mostrar todo la información requerido. El tamaño común es de 2 pies por 4 pies. Si el sujeto propiedad esta muy grande, proporcione un plano del sitio detallado de la parte del desarrollo, y inserta una mapa dimensionada de toda la propiedad.

**Scale** *(Escala)*

Plans must be drawn to a scale of at least one inch equals 20 feet or 1/8 inch equals one foot. The scale must be included on the plans. Unusual, non-standard, immeasurable or distorted scales will not be accepted.

Los Planos deben de ser dibujados a una escala de por lo menos de una pulgada equivalente a 20 pies o 1/8 pulgada equivalente a un pie. La escala debe de ser incluida en los planos. Insólito, no estándar, inconmensurable o escalas retrocedidas no van hacer aceptados.

**Dimensions** *(Dimensiones)*

Plan must be fully dimensioned and oriented with a North arrow clearly indicated on the plans. Do not use the edge of the paper as a property line. All plans should have a borderline and title block.

Los planos deben de ser dimensionados completamente y orientados con una flecha punta hacia el Norte claramente indicado en los planos. No use el borde del papel como la línea de la propiedad. Todos los planos deben de tener una línea divisoria y un título.

**Structures** *(Estructuras)*

Identify and provide floor plans and elevations of all existing and proposed structures on the property.

Identifique todas las estructuras existentes y el propuesto. Proporcione planos de piso y elevaciones de todas las estructuras.

**Height** *(Altura)*

Clearly depict the height and number of stories of all structures. For properties with sloping terrain, include building cross-sections and depict the natural, finished grade and finished floor. For projects with structure height at or near the maximum height allowed, an architect/engineer certification may be required to verify compliance with the maximum height.

Claramente represente la altura y el número de pisos de todas las estructuras. En las elevaciones, represente el nivel natural y el nuevo nivel y el nuevo piso. A las propiedades con el terreno inclinado incluye una sección transversal del edificio. Proyectos con estructuras legando casi al la altura máxima permitido, una certificación de un arquitecto/ingeniero va hacer requerido para verificar conformidad a la altura máxima.

**Yards and Setbacks** *(Yardas y Atrasos)*

The project must meet all required setbacks unless a yard modification is approved. A survey prepared by a licensed surveyor may be required to verify the accuracy of any dimensions depicted on the plans.

El proyecto debe de cumplir con todos los requeridos atrasos a menos que se aprueba una modificación. Un agrimensión preparado por un agrimensor licenciado va hacer requerido para verificar la exactitud de cualquier dimensión representada en los planos.

**Fences and Walls** *(Cercas y Muros)*

Show the location, height, and materials of all existing and proposed fences and walls on the subject property. Wall cross-sections are required for all retaining walls.

Demuestre la ubicación, altura y materiales de todo lo existente y las propuestas cercas y muros en la propiedad. Se requiere una sección transversa a todos los muros de contención.

**Features** *(Características)*

Indicate landscaping, topography and other development features applicable to the request.

Indica paisajes, topografías y otros desarrollos características aplicable a la solicitud.

**Community Standards District** *(Reglas del Distrito de la Comunidad)*

Verify if the property is located in a Community Standards District prior to submittal. Plans must include any additional information required to verify compliance with all applicable CSD regulations.

Verifique si la propiedad esta localizada en una Reglas del Distrito del la Comunidad antes de someter. Los planos deben de incluir información adicional requerida para verificar conformidad con las regulaciones.
Access (Acceso)
Driveway access, vehicular back-up, and parking must be depicted and fully dimensioned. Depict street names, centerlines and widths of all highways, streets and alleys adjacent to the subject property.

Acceso al camino de entrada, área de reversa vehicular, y estacionamiento deben de ser representadas y completamente dimensionadas. Represente las nombres de las calles, las líneas del centro y lo ancho de todas las carreteras, calles y callejones contiguo a la propiedad sujetó.

Topography (Topografía)
Topographic lines must be depicted on plans where grading is proposed or there are slopes of ≥ 25%.

Líneas topográficas deben de ser representados en los planes donde se propone escarbarmiento o hay un inclinado ≥ 25%.

Grading (Escarbarmiento)
Plans must note the total cubic yards of cut and/or fill grading proposed. Also include the grading quantities to be imported or exported. Depict natural and finished grade on the elevations. Please be aware that grading of ≥ 100,000 cubic yards, or import of ≥ 1,000 cubic requires a Conditional Use Permit.

Planes deben de notar las yardas cúbicas totales de escarbarmiento si se propone un corte y/o relleno. También incluye las cantidades de escarbarmiento que se van hacer importados o exportados. Representa los niveles naturales y el nuevo nivel en las elevaciones. Por favor sea consciente que el escarbarmiento de ≥ 100,000 yardas cúbicas, o la importación de ≥ 100,000 yardas cúbicas requiere un Permiso de Uso Condicional.

Haul Route (Ruta de Transporte)
The off-site transport of 10,000 cubic yards of dirt requires a haul route. Include a map depicting the proposed haul route, the property owner and address of the receiving site and letter of authorization.

La transportación de 10,000 yardas cúbicas de tierra fuera del sitio requiere una ruta de transporte. Incluye una mapa representando el propuesto ruta de transporte, el dueño y dirección de propiedad quien lo recibe y una carta de autorización.

Yard Modifications (if applicable) / Modificacion de Yarda (si es aplicable)

Burden of Proof (No. 13) (Carga de la Prueba)
Respond to the questions in section 13. Submit photographs, with the address noted, of any properties that have similar setbacks to those requested (question B. in Section 13). There is no guarantee of approval for yard modifications.

Conteste las preguntas en la sección 13 de esta aplicación. Somete fotografías, con la dirección anotada, de todas las propiedades notadas quienes tienen atrasos similares a los que se solicitan.

Vicinity Map (Mapa de la Vecindad)
Show the location and dimension of all structures on nearby lots that have similar setbacks to those being requested on a separate 500-feet radius map (linked to question B in section 13).

Demuestre la ubicación y las dimensiones de todas las estructuras en los lotes contiguos quienes tienen atrasos similares a los quienes se solicitan en una mapa separada de hasta 500 pies (en conexión a la pregunta B en la sección 13)

Ownership Map, List and Gum Labels (Mapa de la Propiedad, Lista y Etiqueta de Goma)
I hereby grant the Department of Regional Planning authorization to provide the certified mailing list, mailing labels, ownership and vicinity maps as required by Title 22 (Zoning Ordinance) of the Los Angeles County Code.

Por este medio concedo al Departamento la autorización de proporcionar la lista de direcciones certificado, etiquetas para enviar, y mapas de propiedad y cercanías como se requiere por el Título 22 (Ordenanza de Zonamiento).

Reduced Copy of Site Plan (Una Copia del Plano del Sitio Reducido)
Provide a copy of the site plan on an 8 ½” x 11” size paper for mailing.

Proporcione una copia del plano del sitio en un papel del tamaño 8 ½”x11” para enviar por correo.

I hereby certify that:
1. I have carefully reviewed and initialed all items above and prepared the application and plans in accordance with the instructions, and
2. I understand that the submittal of inaccurate or incomplete information or plans, or failure to comply with the instructions may result in processing delays and/or denial of my application.

Signature: ____________________________________   Name (Print) _________________________   Date:  ________

If you suspect fraud or wrongdoing by a County employee, please report anonymously to the Fraud Hotline at 1-800-544-6864 or www.lacountyfraud.org
SAMPLE RESIDENTIAL SITE PLAN

Property Line 50'

10' min. driveway width

Dripline

15' protected zone from trunk

5' protected zone

Note: (Min. parking space dimension is 8' - 6" x 18'")

New 600 sq. ft. 1-story addition

15' min. rear yard

Property Line 120'

5' min. side yard width

New 400 sq. ft. 2-car garage

26' min. vehicle backup

Existing 1,750 sq. ft. 1-story Single Family Residence

Landscape

Landscape

10' min. driveway width

20' min. front yard for:
R-1, R-2, R-A, A-1, A-2
15' min. front yard for:
R-3, R-4

existing driveway

6' Max. Side yard fence height

No side yard for a reverse corner lot is 10'

7' Max. Front yard fence height

North

Must show location of street centerline on the plans and include measurement from the centerline to the front property line

Measure street width from the centerline of the street to determine where the property line begins

California Blvd.

Scale: 1/8" = 1' (Note: This sample drawing is not to scale)

Disclaimer:
This sample does not address Community Standards District, Setback District, Equita

District, CUP, TCO, or other requirements different than the zoning
Density Based on General Plan, and Zoning Requirements
Sample Commercial Site Plan

**Measure street width from the centerline of the street to determine where the property line begins.**

**SCALE: 1/8" = 1' (This Sample is not drawn to scale)**

- **C** = Compact Parking Space
- **S** = Standard Parking Space

---

**Total Landscape Area = ? square feet**

Los Angeles County Department of Regional Planning | 320 W. Temple Street | Los Angeles, CA 90012
Phone: (213) 974-6411 | Fax: (213) 626-0434 | http://planning.lacounty.gov
Oak Tree Diagram

(Oak trees, at least 8 inches in diameter at 4.5 feet above natural grade or multi-trunk oak trees with a combined diameter of 12 inches, are protected)

1- Oak tree protected zones are the areas 15 feet from trunk and 5 feet from dripline (canopy). Show BOTH on site plan. Encroachment will occur within either area.
2- Any construction, improvement, and demolition (including but not limited to structures, walls, fences, grading, paving, irrigation, landscaping, balconies, storage, and required parking) must be located outside the oak tree protected zones.
3- Show the oak tree protected zones, whether the tree is on your property or outside your property (including the public right of way.)
4- An arborist report may be required to determine if there is an encroachment.
1. A minimum of two (2) complete sets of plans and one (1) additional architectural set for the County Assessor that includes: a) a site plan, b) dimensioned floor plans, and c) elevations shall be submitted (jurisdiction may require additional sets); partially completed plans will not be accepted.
2. All plans and applications shall include an accurate description of the entire scope of work.
3. Plans must be legible, blue-line or copies (no ink), fully dimensioned and drawn to scale (minimum 1/8” scale, 1/4” recommended) on sheets which are 18” x 24” Min. (24” x 36” recommended). Superfluous general notes and details which do not apply to the proposed construction project shall not be included on the plans.
4. All plans submitted must be signed by the person responsible for their preparation. When required, plans must be wet stamped and signed by an licensed architect or engineer registered in the state of California.
5. A fully dimensioned SITE PLAN which contains the following information is required:
   - Project address
   - Name, address, and telephone numbers of the owner and the person responsible for the preparation of the plans.
   - All easements and restricted use areas, with dimensions.
   - Landscaping, floor area ratio, and lot coverage tabulations in both square feet and as a percent (%) of the lot.
   - North arrow.
   - All structure-to-property line setback dimensions (existing and proposed).
   - Location of all property lines.
   - Dimensions of all architectural projections (mansards, marquees, bay windows, signs, cornices, balconies, awnings, eaves, etc.).
   - Street name(s) for all adjacent streets, and street center lines.
   - Fully dimensioned parking plan, including tabulation of existing, proposed and required parking spaces (not required for privately funded single-family dwellings).
   - Grade elevations at property line corners, at driveways, and at garage floor.
   - Show all proposed and existing utility meters, public sewer connections, private sewage disposal systems, and fire hydrant locations.
   - Locations of all buildings / structures on adjacent property within 10 feet of property line. (For shoring requirements, see item 19).
   - Location and dimensions of all walks, driveways and hardscape.
   - Show the location of top or toe of any slope on property.
6. A DRAINAGE PLAN, when required, shall include the following information and details:
   - Site drainage patterns
   - Drainage devices, such as catch basins, area drains, and sump pumps
7. GENERAL NOTES shall be included on the plans to address all construction requirements. The general notes shall include information which addresses the following:
   - Applicable codes.
   - Occupancy classification, and use
   - Construction Type
   - If fire sprinklers are to be provided
   - Assessor’s Parcel Number
   - Legal description of parcel
   - Lot area
   - Building area
   - Building height
   - Zone (Fire, Seismic, etc.)
   - Description of work
8. A SITE SURVEY, when required, shall contain the following information:
   - Name, address, telephone number, and State of California license number of surveyor.
   - Locations of property lines, structures on property, and/or grade elevations and topography.
9. **SEPARATE PERMITS** may be required for any of the following:

- Electrical
- Mechanical
- Plumbing
- Site improvements such as Pools and Spas
- Retaining walls (other than walls which are part of the building)
- Fences
- Grading
- Demolition
- Driveway Aprons and Street use

10. Fully dimensioned **FLOOR PLANS** are required for every affected story. Every room shall identify the existing and intended use. Door and window schedules shall be provided to identify the dimension and type of doors and windows. The floor plans shall identify all existing and new construction.

11. Fully dimensioned details indicating compliance with **DISABLED ACCESS** requirements, including (not required for privately funded single family dwellings and duplexes):

- Disabled unit(s) and disabled adaptable unit(s).
- Disabled parking spaces
- Paths of travel from disabled parking spaces to building entrance
- Building entrance and paths of travel within the building
- Disabled access to facilities within the building, including restrooms, telephones, drinking fountains, and counters.

12. Dimensioned **STRUCTURAL PLANS** shall be provided for each floor and roof level. Structural, framing, and foundation plans shall identify the size and spacing of all structural elements. Complete details shall be provided for:

- All critical connections
- All construction assemblies
- Size, location and embedment depth of all anchor bolts, including bolts required for hold-down devices.
- Concrete reinforcement details, including the size, spacing, location and number of reinforcing bars
- All lateral force-resisting elements, including shear wall schedules, diaphragm construction specifications, and construction details for steel frame elements.
- For prefabricated trusses, plans must indicate type of truss and connection details at time of submittal.

13. Complete **STRUCTURAL CALCULATIONS** shall be provided to substantiate the structural plans if deviating from the conventional construction provisions of the building code. The structural calculations shall address both vertical and lateral forces, and shall be wet stamped and signed by a licensed engineer or architect registered in the state of California.

14. Fully dimensioned **EXTERIOR ELEVATION** drawings shall be provided that show existing and finished grade lines. Show wall and roof finish material, and location of all openings. The elevation drawings shall identify the building height at all critical locations.

15. Fully dimensioned **SECTION** drawings shall be provided through the building at all significant locations. At least two sections shall be provided in orthogonal directions.

16. A complete and dimensioned **LANDSCAPE AND IRRIGATION** plan, prepared by an individual licensed in the state of California to prepare and stamp such a plan, may be required for all new construction and most other projects which will revise existing parking and/or landscaping.

17. A signed **CERTIFICATE OF COMPLIANCE** shall be included to verify energy conservation compliance. Energy conservation calculations shall be provided for computer or points method.

18. The type of soil and bearing value shall be indicated on the plans. Where expansive soil conditions exist, refer to local jurisdiction requirements. A **SOIL/GEOTECHNICAL REPORT** may be required by the local jurisdiction.

19. **SHORING** plans and calculations may be required for all excavations which exceed four feet in depth or which remove lateral support from an existing building, an adjacent property or the public right of way.

20. If a new, relocated or upgraded **ELECTRIC SERVICE** is required, applicants must contact the local utility company for approval of meter location and the available short circuit current information.

21. **NPDES** requirements shall be incorporated into the construction documents. See attached documents provided by local jurisdiction for details.
GENERAL PROJECT INFORMATION

PLAN CHECK NO. __________________________ DISTRICT NO _______
JOB ADDRESS _____________________________ CITY __________________ ZIP _______

NOTE: Numbers in the parenthesis ( ) refer to sections of the 2008 edition of the Los Angeles County Building Code, Table (T), Plumbing Code (PC), Mechanical Code (MC), Electrical Code (EC).

INSTRUCTIONS

• The following notes must be included on the plans.

SECURITY REQUIREMENTS

1. Exterior doors, doors between house and garage, windows and their hardware shall conform to the Security Provisions of Chapter 67 of the County of Los Angeles Building Code:
   a. Single swinging doors, active leaf or a pair of doors, and the bottom leaf of Dutch doors shall be equipped with a latch and a deadbolt key operated from the outside. Deadbolts shall have a hardened insert with minimum 1-in. throw and 5/8-in. embedment into the jamb. If a latch has a key-locking feature, it shall be a dead latch type. (6709.2)
   b. Inactive leaf of a pair of doors or upper leaf of Dutch doors shall have a deadbolt as per the paragraph “a” not a key operated, or hardened deadbolt at top and bottom with 1/2-in. embedment. (6709.3)
   c. Swinging wood door(s) shall be solid core not less than 1-3/8-in. thick. (6709.1.1)
   d. Panels of wood doors shall be 1-3/8-in. thick and not more than 300 sq. inches. Stiles and rails to be 1-3/8-in. thick and 3-in. minimum width. (6709.1.2)
   e. Door hinge pins accessible from the outside shall be non-removable. (6709.5)
   f. Doorstops of wood jambs of in-swinging doors shall be one-piece construction or joined by a rabbet. (6709.4)
   g. Glazing within 40-in. of the locking device of the door shall be fully tempered/approved. (6714)
   h. Overhead and sliding garage doors shall be secured with a cylinder lock, a padlock with a hardened steel shackle, or equivalent when not otherwise locked by electric power operation. Jamb locks shall be on both jambs for doors exceeding 9-ft.in width. (6711)
   i. Sliding glass doors and sliding glass windows shall be capable of withstanding the tests set forth in Section 6706 and 6707 and shall bear forced-entry-resistant labels. (6710, 6715)

CONSTRUCTION REQUIREMENTS

2. Notching of exterior and bearing/nonbearing walls shall not exceed 25% / 40% respectively. Bored holes in bearing/nonbearing walls shall not exceed 40% / 60% respectively. (2308.9.10, 2308.9.11)
3. Group R-3 shall have a minimum interior finish rating of Class C. (T-803.5)
4. Provide fire blocking in concealed spaces of stud walls, partitions, including furred spaces, at the ceiling and floor level, and at 10-ft. intervals both vertical and horizontal. (717.2)
5. Pipes, ducts and other nonstructural construction shall not interfere with accessibility to or within under-floor area. (1209.1.1)
6. Galvanized steel (zinc-coated G90) (26 gage) roof valley flashing is required. (T-1507.2.9.2)
7. Note on the plans: “Roof diaphragm nailing to be inspected before covering. Face grain of plywood shall be perpendicular to supports.”
8. Floors shall have approved tongue-and-groove joints or blocked panel edges. Plywood spans shall comply with Table 2304.7(3).

GLAZING REQUIREMENTS

The following shall be considered specific hazardous locations requiring safety glazing: (2406.3)

9. Glazing in swinging, sliding, storm and bi-fold doors.
10. Glazing located within 60-in. of the floor surface in tubs, showers, saunas, or steam rooms.
11. Glazing within a 24-in. arc of either vertical edge of doors and within 60-in. of walking surface.
12. Glazing in an individual fixed or operable panel that meets all of the following conditions:
   a. Exposed area of an individual pane greater than 9 SF.
   b. Exposed bottom edge less than 18-in. above the floor.
   c. Exposed top edge greater than 36-in. above the floor.
d. One or more walking surfaces within 36-in. horizontally of the plane of the glazing

13. Glazing in guards and railings regardless of height above a walking surface. Included are structural baluster panels and nonstructural in-fill panels.

14. Glazing in walls and fences enclosing indoor and outdoor swimming pools, hot tubs and spas where all of the following conditions are present:
   a. The bottom edge of the glazing is less than 60-in. above the walking surface.
   b. The glazing is within 60-in. of the water's edge.

15. Glazing adjacent stairways, landings and ramps within 36-in. horizontally of walking surface and less than 60-in. above walking surface.

16. Glazing adjacent stairways within 60-in. horizontally of bottom tread of stairway and exposed surface is less than 60-in. above nose of tread.

17. Glazing is within 40" of a locking device of the door.

MECHANICAL / PLUMBING / ELECTRICAL CODE

18. Dwelling shall be provided with comfort heating facilities capable of maintaining a room temperature of 68° F @ 3-ft. above floor. (1204.1)

19. The following are required for the forced air furnace in a compartment:
   a. Central heating furnaces and low-pressure boilers installed in alcoves and closets shall be listed for such installation. Listed clearances shall be used and may not be reduced. (MC 904.2(B))
   b. When combustion air is taken from inside, area of combustion air openings shall be 1 sq. in. per 1,000 BTU (100 sq. in. minimum) per opening, one opening within 12-in. of ceiling and second opening within 12-in. of floor. (MC 701.3.1(1))
   c. Combustion air from outside to compartment with a 1/4-in. screen at outside opening. (MC 701.9(B))
   d. Separate ducts for upper and lower combustion air supply openings. (MC 701.1(4))

20. The following are required for furnace or comfort cooling equipment in an attic:
   a. Scuttle 22-in. x 30-in. or the size of the largest piece of equipment and located not over 20-ft. from equipment where the height of passageway is less than 6-ft. (MC 904.11)
   b. 24-in. wide unobstructed passageway of solid continuous flooring from scuttle to equipment and its controls. (MC 904.11)
   c. Unobstructed workspace of 30-in. X 30-in. min. in front of service side of equipment. (MC 104.11)
   d. A permanent 120V receptacle outlet and a lighting fixture shall be installed near the appliance. Light switch shall be located at the entrance to the passageway. (MC 931.4)
   e. Vent through the roof a min. of 5ft. above the highest vent collar that it serves. (MC 806.2.1)
   f. Furnace installation shall meet all listed clearance. (MC 304)

21. Clothes dryer moisture exhaust duct shall terminate on the outside of the building and shall be equipped with a back-draft damper. Screens shall not be used and the exhaust duct may not extend into or through ducts or plenums. (MC 504.3)

22. Clothes dryer moisture exhaust duct must be 4-in. in diameter and length is limited to 14-ft. with 2 elbows. The duct length shall be reduced by 2-ft. for every elbow in excess of two. (MC 504.3.2.2)

23. The building shall have water closets (toilets), which use no more than 1.6 gallons per flush. (PC 402.2)

24. Ducts shall be sized per Chapter 6 of the Mechanical Code.

25. ABS and PVC DWV piping installations shall be limited to not more than two stories of residential areas. (PC 701.1.2.2)

26. Plumbing plan check and approval are required for 2-in. or larger gas lines and/or water lines.

27. Where NM Cable (Romex) is run across the top of ceiling joists and/or where the attic is not accessible by permanent stairs or ladders, protection within 6-ft. of the nearest edge of the scuttle hole or attic entrance shall be provided. (EC 334.23, 320.23(A))

I agree that the above notes are applicable to the project and constitute a part of the building plans.

Signature: ___________________________ Date: ___/___/___

Residential Plan General Notes.doc 02-27-2008 Page 2 of 2
County of Los Angeles
Department of Public Works
Building and Safety Division / Land Development Division
900 South Fremont Avenue, Third Floor
Alhambra CA 91803
(Monday – Thursday, 7 am – 5 pm, Closed Friday)

Building and Safety Division:
Building Section (626) 458-3173
Electrical Section (626) 458-3180
Mechanical/Plumbing Section (626) 458-3182
Drainage and Grading Section (626) 458-6390

Land Development Division:
Subdivision Plan Checking (626) 458-4943
Subdivision Mapping Section (626) 458-4902
Subdivision Management (626) 458-4904
Subdivision Public Counter (626) 458-4930

Gail Farber, Director of Public Works
Rajesh Patel, Superintendent of Building

March 28, 2011

NOTE: Building and Safety Division: Permits and information may be obtained in the district or city office of the area in which the construction is planned. For your convenience, plan check applications for construction in the unincorporated County territory may be submitted at the Alhambra headquarters office as well as the local district office. Land Development Division: permit applications must be submitted at the Alhambra headquarters office. Should questions arise regarding permit or construction requirements, please contact your local district office, either in person, by telephone, or you can email your questions to: http://dpw.lacounty.gov/general/dpwrequest/
## BUILDING AND SAFETY

### DISTRICT OFFICES

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antelope Valley</td>
<td>335A East Avenue K6</td>
<td>(661) 524-2390</td>
</tr>
<tr>
<td>Calabasas/Malibu</td>
<td>26600 Agoura Rd. Suite 110</td>
<td>(818) 880-4150</td>
</tr>
<tr>
<td>Carson</td>
<td>701 E. Carson St.</td>
<td>(310) 830-7600</td>
</tr>
<tr>
<td>East Los Angeles</td>
<td>4801 E. 3rd St.</td>
<td>(323) 881-7030</td>
</tr>
<tr>
<td>La Puente</td>
<td>16005 E. Central Ave.</td>
<td>(626) 961-9611</td>
</tr>
<tr>
<td>Lomita/Lennox</td>
<td>24320 S. Narbonne Ave.</td>
<td>(310) 534-3760</td>
</tr>
<tr>
<td>San Gabriel Valley</td>
<td>125 S. Baldwin Ave.</td>
<td>(626) 961-9611</td>
</tr>
<tr>
<td>Santa Clarita</td>
<td>23757 Valencia Blvd.</td>
<td>(661) 222-2940</td>
</tr>
<tr>
<td>Southwest</td>
<td>1320 West Imperial Hwy.</td>
<td>(323) 820-6500</td>
</tr>
<tr>
<td>South Whittier</td>
<td>13823 Telegraph Rd.</td>
<td>(562) 946-1390</td>
</tr>
<tr>
<td>Universal</td>
<td>100 Universal City Plaza MT85</td>
<td>(818) 762-6284</td>
</tr>
</tbody>
</table>

### CONTRACT CITY OFFICES

<table>
<thead>
<tr>
<th>City</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artesia (8-10)*</td>
<td>18747 Clarkdale Ave.</td>
<td>(562) 865-6263</td>
</tr>
<tr>
<td>Carson (M-Th 7-6)*</td>
<td>701 E. Carson St.</td>
<td>(310) 830-7600</td>
</tr>
<tr>
<td>Cerritos (8-5)*</td>
<td>18125 Bloomfield Ave.</td>
<td>(562) 860-0311</td>
</tr>
<tr>
<td>Commerce</td>
<td>2535 Commerce Way</td>
<td>(323) 887-4455</td>
</tr>
<tr>
<td>Duarte (M-Th 7:30-6)</td>
<td>1600 Huntington Dr.</td>
<td>(626) 357-7931</td>
</tr>
<tr>
<td>Industry</td>
<td>16005 E. Central Ave.</td>
<td>(626) 961-9611</td>
</tr>
<tr>
<td>Irwindale (M-Th 8-12)*</td>
<td>5050 N. Irwindale Ave.</td>
<td>(626) 430-2200</td>
</tr>
<tr>
<td>La Canada Flintridge (8-10)*</td>
<td>1327 Foothill Blvd.</td>
<td>(818) 790-8651</td>
</tr>
<tr>
<td>Lakewood (M-Th, Alt F 7-5:30)*</td>
<td>5050 N. Clark Ave.</td>
<td>(562) 866-9771</td>
</tr>
<tr>
<td>Lawndale (7:30-11:30)*</td>
<td>14717 S. Burin Ave.</td>
<td>(310) 970-2100</td>
</tr>
<tr>
<td>Lomita</td>
<td>24320 S. Narbonne Ave.</td>
<td>(310) 534-3760</td>
</tr>
<tr>
<td>Rolling Hills Estates</td>
<td>24320 S. Narbonne Ave.</td>
<td>(310) 534-3760</td>
</tr>
<tr>
<td>Santa Fe Springs (8-4)*</td>
<td>11710 E. Telegraph Rd.</td>
<td>(562) 868-0511</td>
</tr>
<tr>
<td>Temple City (8-12)*</td>
<td>9701 Las Tunas Dr.</td>
<td>(626) 285-0488</td>
</tr>
<tr>
<td>Westlake Village</td>
<td>26600 Agoura Rd. Suite 110</td>
<td>(818) 880-4150</td>
</tr>
</tbody>
</table>

### Normal Office Hours: Monday-Friday, 8:00 a.m. to 4:30 p.m., except legal holidays or as indicated above by the *.

Inspection requests must be made 24 hours in advance.
PREFACE

The purpose of this guide is to provide an informational manual to homeowners, contractors and engineers for the preparation and processing of grading permit applications. Portions of the grading code that are commonly encountered during the planning, permitting, and construction of grading work are presented herein in order to reduce unnecessary plan review time and construction delays. Also provided are referrals to other governmental agencies that may have an influence on the design and approval of the proposed project. The information presented in this guide does not presume to cover all the possible Code and ordinance requirements. The prospective owner and contractor may find it necessary to confer directly with the staff of Building and Safety Division or Land Development Division, of the Department of Public Works, for a specific project.

Los Angeles County Codes

The purpose of the building code is to provide minimum standards to safeguard the public’s safety and welfare by regulating the design, construction, quality of materials, use, occupancy, location and maintenance of all dwellings, other structures, certain equipment and grading.

Los Angeles County is currently using the following codes:

- 2011 Los Angeles County Building Code (LACBC-Title 26) based on the 2010 California Building Code (CBC)
- 2011 Los Angeles County Residential Code (LACRC-Title 30) based on the 2010 California Residential Code (CRC)
- 2011 Los Angeles County Green Building Code (LACGBC-Title 31) based on the 2010 California Green Building Code (CGBGC)

The codes are adopted with amendments to meet local conditions. Appendix J of the LACBC (the portion of the code related specifically to grading) is provided in its entirety in this packet.

BUILDING AND SAFETY & LAND DEVELOPMENT OFFICES

The Building and Safety and Land Development Divisions of the Department of Public Works are the agencies responsible for the enforcement of the applicable codes (as indicated above) for the unincorporated areas of Los Angeles County as well as contract cities. Building and Safety Division reviews grading plans for Code compliance, issues grading permits, and inspects grading and construction work. Land Development Division reviews subdivision grading plans for Code compliance and enforcement of Conditions of Approval for various departments and agencies. Both Building and Safety and Land Development Divisions staff the Alhambra headquarters office at 900 South Fremont Avenue, 3rd floor, Alhambra, CA 91803. Building and Safety Division also staffs 11 regional District Offices for the convenience of the public. Building and Safety Division also provides building and safety services for 17 Contract Cities. See the directory of offices herein for the location, telephone number and hours of operation for each office.

LOCAL PLANNING AGENCY

The local planning agency (Department of Regional Planning for unincorporated areas of Los Angeles County) regulates the subdivision of land, as well as the location, height and use of dwellings and other structures, off-street parking, and grading through the Zoning Ordinance. For all grading projects, the proposed development must comply with the intended land use for the site, and therefore compliance with the Zoning Ordinance is required prior to issuance of any grading permits.

Parcels of land that have not been established by a subdivision map may need proof that they were legally created. The Department of Regional Planning investigates the history of your parcel and issues a Certificate of Compliance if the legality is affirmed. Therefore it is advisable that you understand the zoning regulations applicable to your property before preparing plans or making other arrangements for construction. Relevant zoning information affecting your project may be obtained in person from Department of Regional Planning or the local Building and Safety District Office, many of which have Regional Planning representatives. Applicants may contact the local District Office for more information.

For grading projects associated with any proposed subdivision of land, a Tentative Parcel Map or Tentative Tract Map must be approved by Regional Planning prior to applying for a grading permit.

If your lot is located in the jurisdiction of one of the Contract City offices, contact the local planning agency of that city. City planning agencies may have additional regulations or requirements that could impact grading.
PERMITS REQUIRED

No person shall do any grading without first having obtained a grading permit from the building official. A grading permit shall be obtained for each property. Generally, plans and permit for grading must be processed and issued separately from and prior to any building permit on the property. **Building permits cannot be issued until rough grading (graded soil surface is within six inches of final planned grade or elevation and all rough drainage devices are installed) is complete and approved by the Building Inspector.**

Certain minor grading is exempt from the need to obtain a grading permit, including the following:

1. When approved by the building official, grading in an isolated, self-contained area if there is no danger to private or public property.
2. An excavation below finished grade for basements and footings of a building, retaining wall or other structure authorized by a valid building permit. This shall not exempt any fill made with the material from such excavation or exempt any excavation having an unsupported height greater than 5 feet after the completion of such structure.
3. Cemetery graves.
4. Refuse disposal sites controlled by other regulations.
5. Excavations for wells or tunnels or utilities.
6. Mining, quarrying, excavating, processing or stockpiling of rock, sand, gravel, aggregate or clay where established and provided for by law, provided such operations do not affect the lateral support or increase the stresses in or pressure upon any adjacent or contiguous property.
7. Exploratory excavations under the direction of soil engineers or engineering geologists. This shall not exempt grading of access roads or pads created for exploratory excavations.
8. An excavation that does not exceed 50 cubic yards (38.3 m³) and complies with one of the following conditions:
   (a) is less than 2 feet (0.6 m) in depth.
   (b) does not create a cut slope greater than 5 feet (1.5 m) measured vertically upward from the cut surface to the surface of the natural grade and is not steeper than 2 units horizontal to 1 unit vertical (50 percent slope).
9. A fill not intended to support a structure, that does not obstruct a drainage course and complies with one of the following conditions:
   (a) is less than 1 foot (0.3 m) in depth and is placed on natural terrain with a slope flatter than 5 units horizontal to 1 unit vertical (20 percent slope).
   (b) is less than 3 feet (0.9 m) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, does not exceed 50 cubic yards, and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50 percent slope).
   (c) is less than 5 feet (1.5 m) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, does not exceed 20 cubic yards, and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50 percent slope).

GRADING DESIGNATION

Grading in excess of 5,000 cubic yards or that is proposed to support any structure shall be performed in accordance with the approved grading plan prepared by a civil engineer, and shall be designated as "engineered grading." Grading involving less than 5,000 cubic yards and that will not support any structure shall be designated "regular grading" unless the permittee chooses to have the grading performed as engineered grading, or the building official determines that special conditions or unusual hazards exist, in which case grading shall conform to the requirements for engineered grading. The project shall also be considered "engineered grading" whenever the grading involves development of two or more lots or parcels.
PERMIT PROCEDURE

GRADING PERMIT APPLICATIONS

To obtain a permit for grading on any property not currently in the subdivision process, the applicant shall first complete an application form furnished for that purpose at the Building and Safety office closest to the location of the job site. Each application shall describe the work to be covered by the permit including the grading quantities in cubic yards, the site address, contact information for the owner, permittee, engineer and contractor, and provide other information as may reasonably be required by the Division. The staff at the local Building and Safety office may assist you in completing the application, and possibly input the information in the computerized permitting system.

A legal description of the property, obtained from either a tax bill for the property or the deed to the property, may need to be provided when the site is unimproved. If an address has not been assigned to the property, one will need to be obtained from Mapping and Property Management Division. The counter personnel at the local Building and Safety office can assist you in this process.

To obtain a permit for grading for a proposed subdivision (Parcel Map or Tract Map), the applicant must obtain and complete the grading permit application as stated above and submit the plans, reports, and supplemental documents directly to Land Development Division. See below for specific SUBMITTAL REQUIREMENTS.

SUBMITTAL REQUIREMENTS

Grading first plan check submittals shall include the following:

1. Grading permit application
2. Grading plan check fee
3. Four (4) sets of legible grading plans
4. Three (3) sets of current (less than one year old) soils engineering and/or geology investigation reports. In addition, a complete text-searchable electronic version of the geotechnical report in Adobe Portable Document Format (PDF) presented on a compact disc is required. It shall include an electronically generated representation of the license seal, signature, license, and date of sealing or signing.
5. Supplemental documentation such as hydrology/hydraulic calculations, earthwork volume calculations, oak tree reports, easement documents, deed restrictions, etc. as applicable to your project. The plan checker will request all the necessary supplemental documentation during his/her review.

The following additional items must be submitted to Land Development Division for proposed subdivision grading:

6. Approved Tentative Map and Conditions, Conditional Use Permit, Oak Tree Permit, and Mitigation Monitoring Program
7. Hydrology map approved by Land Development Division
8. Copies of all improvement plans such as street, sewer and storm drain plans should be submitted for reference with all grading plan submittals.

INFORMATION REQUIRED ON GRADING PLANS

Engineered Grading: Engineered grading plans and specifications shall be prepared and signed by a licensed civil engineer. Plans shall be drawn to scale, with a scale no smaller than 1” = 40’. Plans shall show in sufficient clarity the nature and extent of the work proposed and that it will conform to the provisions of the applicable codes and all relevant laws, ordinances, rules and regulations. The first sheet of each set of plans shall give the location of the work, the name and address of the owner, and
the person by whom they were prepared. The plans shall include the following information:

1. General vicinity of the proposed site.
2. Grading notes and completed “Project Information” table.
3. Property limits and accurate contours of existing ground and details of terrain and area drainage.
4. Limiting dimensions, elevations or finish contours to be achieved by the grading, and proposed drainage channels and related construction.
5. Detailed plans of all surface and subsurface drainage devices, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work, together with a map showing the drainage area and the estimated runoff of the area served by any drains.
6. Location of any buildings or structures on the property where the work is to be performed and the location of any buildings or structures on land of adjacent owners that are within 15 feet of the property or that may be affected by the proposed grading operations.
7. Recommendations included in the soils engineering and geology report(s) shall be incorporated in the grading plans and specifications.
8. A drainage plan for that portion of a lot or parcel to be utilized as a building site (building pad), including elevations of floors with respect to finish site grade and locations of proposed stoops, slabs and fences that may affect drainage. Proposed structures must be free of flood hazard. If a site is subject to inundation, overflow or erosion, a permit may not be issued unless provisions are made to eliminate the hazard. Therefore, plans must also show all mitigative measures to protect proposed structures and hydrology/hydraulic calculations justifying the design must be provided.
9. Location and type of any proposed private sewage disposal system.
10. Where grading plans show proposed slopes 20’ or more in height, details for landscaping and irrigation for the slopes is required.
11. Provisions for storm water flows to prevent erosion and sediment transport onto adjacent properties, adjacent roadways, storm drain systems and natural drainage courses during the rainy season. These provisions must be shown on a Local Stormwater Pollution Prevention Plan (LSWPPP) for projects which are one acre or larger, or a Wet Weather Erosion Control Plan (WWECP) for sites under one acre. See “NPDES COMPLIANCE” for more specific requirements.

12. Many commercial and industrial projects, as well as subdivisions and large hillside single-family residences, are required to provide permanent devices to treat stormwater flows and urban runoff. These projects are required to prepare a Standard Urban Stormwater Mitigation Plan (SUSMP). See “NPDES COMPLIANCE” for applicability and specific requirements.

Review sheets for grading, LSWPPP, and SUSMP as well as several other useful forms and publications are available on our Public Works website at http://dpw.lacounty.gov/bsd/publications. The review sheets contain the notes needed for the grading plan, LSWPPP and SUSMP.

Regular Grading: Application for a “regular grading” permit shall be accompanied by a plan in sufficient clarity to indicate the nature and extent of the work. The plans shall give the location of the work, the name of the owner and the name of the person who prepared the plan. The plan shall include the following information at a minimum:

1. General vicinity of the proposed site.
2. Limiting dimensions and depth of cut and fill.
3. Location of any buildings or structures where work is to be performed, and the location of any buildings or structures within 15 feet (4572 mm) of the proposed grading.

Contact the local Building and Safety office for additional project-specific requirements that may apply.

PLAN CHECK AND PERMIT FEES

The grading plan check fee will be collected at the time the plans and supporting documents are submitted for review. The permit (inspection fee) will be collected at the time the grading permit is issued. Permit fees and plan checking or review fees for grading are proportional to the amount of grading proposed. The fees shall be based on the number of cubic yards of material in excavation or fill, whichever is greater, plus any overexcavation or removal and recompaction. If a review from Geotechnical and Materials Engineering Division is required for the review of the soils engineering and geology report(s), this fee will be assessed at the time of submittal, along with the plan check fee.
GRADING PERMIT SECURITY

For projects in which the proposed grading involves more than 1,000 cubic yards, the owner (or authorized agent) must post with the building official a grading permit security in one of the following forms:
1. A bond furnished by a corporate surety authorized to do business in this state.
2. A cash bond.
3. Savings and loan certificates or shares deposited and assigned to the County of Los Angeles.
4. An instrument of credit.

Note: For items 3 and 4 above, approval from Public Works, Fiscal Division is required.

The amount of security shall be based on the number of cubic yards of material in excavation or fill, whichever is greater, plus the cost of all drainage or other protective devices or work necessary to eliminate geotechnical hazards.

EXPIRATION OF FEES/PERMITS

Grading Plan Check: If a permit is not secured within twelve (12) months after plans have been filed for checking, two six-month extensions may be granted upon written request and payment of an extension fee equal to 25 percent of the plan check fee by the applicant.

Grading permit applications processed through Land Development Division for subdivisions do not expire as long as the application is active and in the plan check process.

Grading Permit: The issued permit shall expire by limitation if the work is not commenced within six (6) months from the date of issuance, or if the work is suspended or abandoned for a period of six (6) months at any time after the start of work.

PERMIT FEE REFUND

If the work for which a grading permit is issued has not begun and the applicant desires a refund of the permit fee, he/she must file for the refund within one year of the date the permit fee was paid (or within 6 months of the permit extension granted by the Building and Safety Division). The amount of the refund will be 80 percent of the fee paid.

SUSPENSION OR REVOCATION OF PERMITS

When a permit has been issued in error or on the basis of incorrect information supplied by the applicant or is in violation of any applicable regulation, the Building Official may suspend or revoke said permit.

STOP WORK ORDERS

If work for which a permit is required has been started without the required permit, the Grading Inspector may issue an order to comply with the code (Stop Work Order). The owner of the property must then obtain the required permit and correct any work done that does not comply with applicable regulations. The code provides that the grading permit fee shall be doubled when work has been done without the required permit and the owner or contractor was responsible for securing the permit.

COVENANTS/DEED RESTRICTIONS

Whenever an applicant proposes to do work outside his/her property or to do work which affects an adjoining property, the applicant may be required to make a declaration of covenant to perform said work and must obtain written permission from the adjoining property owner(s) in the form of a covenant. This work may include (but is not limited to): grading, retaining walls, inlet structures (acceptance of drainage), outlet structures (discharge of drainage), or any change in the existing drainage pattern (including changes in flow rates, velocities, and water surface elevations). These covenants must be notarized and recorded prior to grading approval. The Building and Safety or Land Development Division staff can provide sample documents and assist you in preparing these documents.

For subdivision grading projects, in addition to the covenant requirements stated above, deed restrictions are recorded as part of the Final Parcel or Tract Map.

AGENCY APPROVALS

CLEARANCES REQUIRED

Every construction project is reviewed for compliance with the LACBC, LACRC and LACGBC, which includes verifying graded sites for buildings are free of flood & geotechnical hazards and that the proposed grading will not be a hazard to adjacent properties. Other county departments and agencies may also review plans and/or reports to verify compliance with laws and ordinances under their jurisdiction. Prior to obtaining a grading permit,
Grading Guidelines

approvals (or clearances) from the following agencies may be required based on site location and proposed development:

PUBLIC WORKS DEPARTMENT
900 South Fremont Ave, Alhambra, CA 91803

Building and Safety Division

All retaining walls that are shown on the grading plans that must be constructed at the time of grading must be approved prior to issuance of the grading permit. A separate retaining wall permit and fees are required. Retaining walls are plan checked and permitted by the local Building and Safety District Office. Retaining walls that are less than 4’ high from the bottom of the foundation to the top of the wall that do not support a surcharge are exempt from a building permit.

Geotechnical and Materials Engineering Division

In areas of questionable geologic or soil stability, the Building Official will require the grading plans to be reviewed by this Division. Soils and/or geology reports may be requested. A grading permit will not be issued unless the necessary plans showing compliance with the recommendations of the geotechnical consultants’ report(s) are approved and remedial action is proposed or completed, as applicable. If an uncorrectable geologic hazard is found to exist, the permit may be denied.

Construction Division/Land Development Division

Approval is required prior to any work within a public right-of-way or easement. For work within the public right-of-way, slope easement, or future road widening easement of a public street, an encroachment or excavation permit is required from Construction Division. For any proposed work within a County of Los Angeles Flood Control District easement (including encroachment into the easement and connection to a public storm drain), an encroachment and/or connection permit is required, also from Construction Division.

For work within the public right-of-way, slope easement, or future road widening easement of a private and future street, approval from Land Development Division is required.

Environmental Programs Division

All grading projects in the unincorporated area of Los Angeles County will need to submit a “Construction and Demolition Debris Recycling and Reuse Plan” for approval from Environmental Programs Division.

In addition, for commercial, industrial and subdivision development where a SUSMP is required (See NPDES COMPLIANCE), approval is required from the Industrial Waste Unit for all structural BMPs selected to treat onsite pollutants.

DEPARTMENT OF REGIONAL PLANNING
320 W. Temple St., Hall of Records, Los Angeles, CA 90012

Zoning issues such as land use, building height, location on a lot, number of stories, vehicular access, parking, and grading are handled by the Department of Regional Planning for the unincorporated areas of Los Angeles County. All proposed grading must conform to the approved land use of the area and/or the applicable community standards district.

Oak Tree Ordinance

Oak trees are protected in Los Angeles County, and therefore any proposed development within the protected zone of an oak tree requires an Oak Tree Permit from the Department of Regional Planning. This ordinance applies for all oak trees with trunks which are 8 inches or larger in diameter, measured 4½ feet from natural grade (or for oaks with multiple trunks, a combined diameter or 12 inches or larger), and the protected zone is defined as 5 feet outside the dripline (or canopy) of the oak tree, or 15 feet from the trunk, whichever is greater.

CITY PLANNING DEPARTMENT

Construction within the jurisdiction of a Contract City usually requires the City Planning Department approval. Please contact the individual city’s planning department for any planning/zoning requirements.
The ability of the Fire Department to fight a structure fire depends in part upon the availability of an adequate water supply to control and extinguish the fire, adequacy of access roads, and the travel distance to the site. For grading projects in which a future structure is planned, the Fire Department must have physical access to the site. For most projects, a signed statement by the owner or engineer certifying that you are aware of the Fire Department’s requirements is generally adequate. However, in more rural areas in which the public road is more than 150’ from all points of the structure, the Fire Department strongly recommends obtaining “Grading and Access Approval” in advance, to prevent the future need for a secondary grading permit to make road improvements to meet Fire Department requirements. Contact your local Fire Prevention Bureau for more information.

In addition, in Very High Fire Hazard Severity Zones (commonly referred to as “Fire Zone 4”), the applicant must obtain a Fire Department Permit prior to issuance of the grading permit.

**CALIFORNIA COASTAL COMMISSION**

All new construction that occurs in the “Coastal Zone” requires a permit from the Coastal Commission prior to issuance of a grading permit. The Coastal Zone boundary varies between 1,000 yards to 5 miles inland from mean high tide. If you are not sure whether your site is in the Coastal Zone, contact your local Building and Safety office or the Coastal Commission for assistance:

- **South Central Coast Area (West of City of LA):** 89 S. California St., Ventura, CA 93001, (805) 585-1800
- **South Coast Area (All areas south east of the City of LA):** 200 Ocean Gate, 10th Floor, Long Beach, CA 90802, (562) 590-5071

**CALTRANS**

Any work proposed within the State highway right-of-way or easement requires a permit from the State Department of Transportation. Call (213) 897-3631 for permit information.

**CALIFORNIA DEPARTMENT OF FISH AND GAME**

4949 Viewridge Ave., San Diego, CA 92123, (858) 467-4201

All work within or near a natural streambed or watercourse (including but not limited to “blue line streams”) requires a Streambed Alteration Agreement from the Dept. of Fish and Game prior to issuance of the grading permit. All conditions of the Streambed Alteration Agreement must be made a part of the grading plans.

**U.S. ARMY CORPS OF ENGINEERS**

Department of the Army, Los Angeles District, Corps of Engineers, 911 Wilshire Blvd, Los Angeles, CA 90017, (213) 452-3412

All work within or near a natural streambed or watercourse (including but not limited to “blue line streams”) also requires approval from the U.S. Army Corps of Engineers. The Army Corps generally issues 404 Permits for projects in which fill and/or removal of material in the natural streambed is proposed. All conditions of the permit must be made a part of the grading plans.

**STATE DEPARTMENT OF CONSERVATION**

**Abandonment of Oil and Gas Wells**

Los Angeles Area: 5816 Corporate Ave. Suite 200, Cypress, CA 90630, (714) 816-6847

Clearance is required if the proposed development encroaches or impacts an existing oil or gas well, or if the project calls for the abandonment of a gas or oil well.

**Department of Conservation, Office of Mine Reclamation**

801 K St. MS 09-06, Sacramento, CA 95814, (916) 323-9198

Clearance is required if the proposed development impacts an existing mine.

**AIR QUALITY MANAGEMENT DISTRICT**

For jurisdiction determination, please visit http://www2.aqmd.gov/webappl/gisaqi2/VEMap3D.aspx

South Coast Air Quality Management District, 21865 E. Copley Drive, Diamond Bar, CA 91765, (909) 396-2000

Projects with 50 acres of disturbed area or 5,000 cubic yards or more of grading are required to comply with AQMD requirements. Prior to grading plan approval, an approval letter shall be submitted to Building and Safety. This excludes agricultural use, emergencies, and utilities.

Antelope Valley Air Quality Management District, 43301 Division Street, Suite 206, Lancaster, CA 93535. (661) 723-8070
Grading Guidelines

Projects that meet either one of the following requirements must comply with AQMD requirements.
- Residential Development with a disturbed area of 10 acres or greater or a Commercial Development with a disturbed area of 5 acres or greater.
- Any project that has 7,500 cubic yards of grading or more. This excludes agricultural use, emergencies, utilities, and residential properties with a disturbed area of less than half an acre.

Prior to grading plan approval, an approval letter shall be submitted to Building and Safety.

GRADING INSPECTION

Grading operations for which a permit is required shall be subject to inspection by the building official. Professional inspection of engineered grading (or if required by the building official for regular grading) shall be provided by the civil engineer, soils engineer and the engineering geologist retained to provide such services.

The permittee shall be responsible for the work to be performed in accordance with the approved plans and specifications and in conformance with the provisions of the Building Code. The permittee shall engage consultants, if required, to provide professional inspections on a timely basis. The permittee shall act as a coordinator between the consultants, the contractor and the building official. In the event of changed conditions, the permittee shall be responsible for informing the building official of such change and shall provide revised plans for approval.

INSPECTION REQUESTS

A request for inspection should be placed with the local Building and Safety office the day before the inspection is desired. Inspection requests may be called in any time during regular office hours (some offices also have an off-hours request answering machine). In general, Building Inspectors may be contacted directly in the local District Office prior to 9:00 am.

REQUIRED INSPECTIONS

Requests for inspections by the Building official shall be made at the following stages of grading:

Pre-Grade Meeting: Prior to any brushing or grading work, the permittee shall request a meeting involving the Building Inspector, the field engineer, the soils engineer (or his field technician), the geologist (if applicable), the grading contractor, the permittee, and any other agencies which may be involved. The purpose of this meeting is for everyone involved to familiarize themselves with the plans and each other, and discuss any site-specific concerns in order to avoid future problems during construction.

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 have been placed prior to this inspection.

Rough: When approximate final elevations have been established; drainage terraces, swales and other drainage devices necessary for the protection of the building site from flooding are installed; berms installed at the top of the slopes; and the statements required by the consultants have been submitted.*

Final: When grading has been completed; all drainage devices necessary to drain the building pad are installed; slope planting established, irritation systems installed; and the as-graded plans and required statements and reports have been submitted and approved.*

Rough and Final Grading Certifications may be obtained by viewing the Drainage and Grading Permit-Inspection documents at the following link: http://dpw.lacounty.gov/bsd/publications/index.cfm.

Supplemental Inspections: In addition to the called inspections specified above, the building official may make such other inspections as may be deemed necessary to determine that the work is being performed in conformance with the requirements of this code. Investigations and reports by an approved soil-testing agency, soils engineer and/or engineering geologist may be required.

FIELD REVISIONS

Site conditions often warrant design changes to the approved grading plans as construction progresses. It is the responsibility of the permittee to inform the Building Inspector and grading plan check engineer of these changes and provide revised plans for approval prior to proceeding with the changes. The final grading approval will not be issued until the revised “as-graded” plans are approved.

NPDES COMPLIANCE

Urban and stormwater runoff is considered to be one of the largest sources of pollution to both local waterways and coastal areas of the United States. As a permittee of the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System Permit (MS4 Permit), the County of Los Angeles is required to develop and implement a Storm Water Quality Management Program, with the goal of reducing pollutants from storm water and urban runoff to receiving waters.
Development Planning and Development Construction are the two programs of the MS4 permit that relate to grading permits on private property.

**Development Planning:** One specific requirement of the Development Planning Program is the Standard Urban Stormwater Mitigation Plan (SUSMP), which was developed as part of the County’s MS4 permit to address storm water pollution from new development and redevelopment by the private sector. Projects that fall within the following categories of development must design and implement a SUSMP:

1. Single family hillside homes, in which grading is proposed on natural slopes with a gradient of 25% or steeper.
2. Ten or more unit homes (including single family, multifamily, condominiums, and apartments)
3. One acre or more of impervious surface in industrial/commercial development
4. Parking lot with 5,000 square feet or more of surface area, or with 25 or more parking spaces
5. Automotive repair shop, automotive and/or equipment maintenance, washing or cleaning areas
6. Retail gasoline outlet, gas station, or fuel dispensing.
7. Restaurants, outdoor food handling or processing
8. Outdoor horticulture activities
9. Animal slaughtering, animal confinement, pet care facilities, stables, kennels, etc.
10. Outdoor manufacturing areas
11. Outdoor handling or storage of hazardous materials
12. Commercial or industrial waste handling or storage
13. Projects located within, directly adjacent to, or directly tributary to an Environmentally Sensitive Area
14. Redevelopment projects in subject categories that meet redevelopment thresholds

Redevelopment is defined as land disturbing activity that results in creation, addition or replacement of 5,000 square feet or more of impervious surface area on an already developed site. Redevelopment includes, but is not limited to, the expansion of a building footprint, addition or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related with structural or impervious surfaces. It does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility, nor does it include emergency construction activities required to immediately protect public health and safety.

Refer to the SUSMP review sheet (see reference on sheet 8) and the SUSMP Manual (available online at: http://dpw.lacounty.gov/wmd/NPDES/SUSMP_MANUAL.pdf) for specific design requirements for all other development categories.

**Development Construction:** All projects with any grading or earth disturbing construction activity must develop and implement a plan designed to minimize the transport of sediment and protect public and private property and natural drainage courses from the effects of erosion, flooding or the deposition of mud, debris or construction related pollutants. The plan must show Best Management Practices (BMP), which include scheduling, operating and maintenance procedures, treatment requirements, and any management practice that prevents, eliminates, or reduces pollution.

*For sites with a disturbed area less than one acre,* a Wet Weather Erosion Control Plan (WWECP) must be developed, which provides temporary erosion and sediment control measures during the rainy season. The BMPs shown on the WWECP shall be installed on or before October 15th.

*For sites with a disturbed area of one acre or greater,* a Local Stormwater Pollution Prevention Plan (LSWPPP) must be developed and implemented in addition to the WWECP. The LSWPPP must provide year round BMPs to control construction related pollutants that originate from the site as a result of construction related activities. The LSWPPP must provide general site management, waste management, non-stormwater management, and materials pollution control BMPs, in addition to erosion and sediment control BMPs.

In addition to filing an LSWPPP with the local Building and Safety District Office or Land Development Division, the applicant must file a Notice of Intent for a State SWPPP and obtain a Waste Discharge Identification Number (WDid) with the State Water Resources Control Board, Division of Water Quality, (916) 341-5536, FAX (916) 341-5543. The following link will provide access to the Board’s SMARTS system for submitting a Notice of Intent: https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp

All BMPs shall be installed before grading begins. As grading progresses, all BMPs shall be maintained in...
good working order to the satisfaction of the design engineer and Building Inspector. The WWECP must be revised annually or as required by the Building Official to reflect the current site conditions, and BMPs must be installed each year until the Building Inspector issues final grading approval and all permanent drainage and erosion control systems, if required, are in place.

LOW IMPACT DEVELOPMENT (LID) COMPLIANCE

All development within the Los Angeles County Unincorporated Areas must comply with the County of Los Angeles LID Ordinance, Title 12 – Section 12.84 and the County of Los Angeles Green Building Code, Title 31 - Section 4.106 or Section 5.106 Site Development. In addition, Residential and Non-Residential Voluntary Measures can also be implemented per Appendix A4 and A5 of the County of Los Angeles Green Building Code, Title 31. LID standards are intended to distribute stormwater and urban runoff across developed sites to help reduce adverse water quality impacts and replenish groundwater supplies. All projects must comply with the Low Impact Development Requirements of the Los Angeles County Grading Review Sheet. The review sheet is available in the Drainage and Grading Section located at the following link: http://dpw.lacounty.gov/bsd/publications.
APPENDIX J GRADING

SECTION J101

J101.1 Scope. The provisions of this chapter apply to grading, excavation and earthwork construction, including fills and embankments and the control of runoff from graded sites, including erosion sediments and construction-related pollutants.

The purpose of this appendix is to safeguard life, limb, property, and the public welfare by regulating grading on private property.

J101.2 Flood hazard areas. The provisions of this chapter shall not apply to grading, excavation and earthwork construction, including fills and embankments, in floodways designated in Chapter 11.60 of Title 11 of the Los Angeles County Code or in floodways within flood hazard areas established in Section 1612.3 or in flood hazard areas where design flood elevations are specified but floodways have not been designated, unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed work will not result in any increase in the level of the base flood.

J101.3 General Hazards. Whenever the Building Official determines that any existing excavation, embankment or fill on private property has become a hazard to life and limb, or endangers property, or adversely affects the safety, use or stability determined that any existing excavation, embankment or fill on private property shall be stopped by notice in writing served on any persons engaged in doing or causing such work to be done, and any such person shall immediately stop such work. The Building Official may authorize the work to proceed if the Building Official finds adequate safety precautions can be taken or corrective measures incorporated in the work to avoid likelihood of such danger, deposition or interference. If the grading work as done has created or resulted in a hazardous condition, the Building Official shall give written notice requiring correction thereof to the owner of the property upon which the excavation, embankment or fill is located, or other person or agent in control of said property. Upon receipt of said notice, the owner or other person or agent in control of the property shall repair or eliminate such excavation, embankment or fill so as to eliminate the hazard, in conformance with the requirements of this code, within the period specified in said notice.

J101.4 Safety Precautions. If at any stage of the work the Building Official determines by inspection that further grading as authorized is likely to endanger any public or private property or result in the deposition of debris on any public way or interfere with any existing drainage course, the Building Official may order the work stopped by notice in writing served on any persons engaged in doing or causing such work to be done, and any such person shall immediately stop such work. The Building Official may authorize the work to proceed if the Building Official finds adequate safety precautions can be taken or corrective measures incorporated in the work to avoid likelihood of such danger, deposition or interference.

J101.5 Protection of Utilities. The permittee and the owner of the property on which the grading is performed shall be responsible for the prevention of damage to adjacent property. No person shall excavate on land sufficiently close to the property line to endanger any adjoining public street, sidewalk, alley, or other public or private property without taking adequate measures to support and protect such property from settling, cracking or other damage that might result. Any person performing any grading that involves imported or exported materials shall take special precautions, as approved by the Building Official, to prevent such materials from being deposited on the adjacent public way and/or drainage courses.

J101.6 Protection of Adjacent Property. The permittee and the owner of the property on which the grading is performed shall be responsible for the prevention of damage to adjacent property. No person shall excavate on land sufficiently close to the property line to endanger any adjoining public street, sidewalk, alley, or other public or private property without taking adequate measures to support and protect such property from settling, cracking or other damage that might result. Any person performing any grading that involves imported or exported materials shall take special precautions, as approved by the Building Official, to prevent such materials from being deposited on the adjacent public way and/or drainage courses.

J101.7 Storm Water Control Measures. The permittee and the owner of the property on which the grading is performed shall put into effect and maintain all precautionary measures necessary to protect adjacent water courses and public or private property from damage by erosion, flooding, and deposition of mud, debris, and construction-related pollutants originating from the site during grading and related construction activities.

J101.8 Maintenance of Protective Devices and Rodent Control. All drainage structures and other protective devices and all barriers and rodent control structures, as shown on the grading plans approved by the building official, shall be maintained in a good condition and, when necessary, promptly repaired by the owner of the property on which grading has been performed or by any other person or agent in control of such property.

J101.9 Correlation with Other Sections. The provisions of this chapter are independent of the provisions of Chapter 99 of this code relating to building and property rehabilitation. This section may be applied even though the same facts have been used to determine that there is substandard property subject to the provisions of Chapter 99.

J101.10 Conditions of Approval. In granting any permit under this code, the Building Official may include such conditions as may be reasonably necessary to prevent creation of a nuisance or hazard to public or private property. Such conditions may include, but shall not be limited to:

1. Improvement of any existing grading to comply with the standards of this code.
2. Requirements for fencing of excavations or fills, which would otherwise be hazardous.

SECTION J102 DEFINITIONS

J102.1 Definitions. For the purposes of this appendix chapter, the terms, phrases and words listed in this section and their derivatives shall have the indicated meanings.

APPROVAL. When the proposed work or completed work conforms to this chapter, as determined by and to the satisfaction of the Building Official.

AS–BUILT. See Section J105.12.

BEDROCK. The relatively solid, undisturbed rock in place either at the ground surface or beneath superficial deposits of alluvium, colluvium and/or soil.

BENCH. A relatively level step excavated into earth material on which fill is to be placed.

BEST MANAGEMENT PRACTICE (BMP). Practices, prohibitions of practices, or other activities to reduce or eliminate the discharge of pollutants to surface waters. BMPs include structural and nonstructural controls, management practices, operation and maintenance procedures, and system, design, and engineering methods.

BORROW. Earth material acquired from an off–site location for use in grading on a site.

CIVIL ENGINEER. A professional engineer registered in the state of California to practice in the field of civil works.

CIVIL ENGINEERING. The application of the knowledge of the forces of nature, principles of mechanics and the properties of materials to the evaluation, design, and construction of civil works.

COMPACT. The densification of a fill by mechanical means.

CUT. See "Excavation".

DESILTING BASINS. Physical structures, constructed for the removal of sediments from surface water runoff.

DESIGN ENGINEER. The Civil Engineer responsible for the preparation of the grading plans for the site grading work.

DOWN DRAIN. A device for collecting water from a swale or ditch located on or above a slope, and safely delivering it to an approved drainage facility.

EARTH MATERIAL. Any rock, natural soil or fill or any combination thereof.

ENGINEERING GEOLOGIST. A geologist experienced and knowledgeable in engineering geology. Shall mean a person holding a valid certificate of registration as a geologist in the specialty of engineering geology issued by the state of California under the applicable provisions of the Geologist and Geophysicist Act of the Business and Professions Code.

ENGINEERING GEOLOGY. The application of geologic knowledge and principles in the investigation and evaluation of naturally occurring rock and soil for use in the design of civil works.

EROSION. The wearing away of the ground surface as a result of the movement of wind, water, or ice.

EXCAVATION. The removal of earth material by artificial means, also referred to as a cut.
FIELD ENGINEER. The Civil Engineer responsible for performing the functions as set forth in Section J105.3.

FILL. Deposition of earth materials by artificial means.

GEOTECHNICAL ENGINEER. See “Soils Engineer.”

GEOTECHNICAL HAZARD. An adverse condition due to landslide, settlement, and/or slippage. These hazards include but are not limited to loose debris, slopewash, and mud flows from natural or graded slopes.

GRADE. The vertical location of the ground surface.

GRADE, EXISTING. The grade prior to grading.

GRADE, FINAL. See Section J105.7.

GRADE, FINISHED. The grade of the site at the conclusion of all grading efforts.

GRADE, INITIAL. See Section J105.7

GRADE, ROUGH. See Section J105.7.

GRADING. An excavation or fill or combination thereof.

KEY. A compacted fill placed in a trench excavated in earth material generally constructed at the toe of a slope.

LANDSCAPE ARCHITECT. A person who holds a certificate to practice landscape architecture in the state of California under the applicable landscape architecture provisions of Division 3, Chapter 3.5 of the Business and Professions Code.

LINE. The horizontal location of the ground surface.

PERMITTEE. See Section J105.6

PRIVATE SEWAGE DISPOSAL SYSTEM. A septic tank with effluent discharging into a subsurface disposal field, into one or more seepage pits or into a combination of subsurface disposal field and seepage pit or of such other facilities as may be permitted in accordance with the procedures and requirements set forth in Title 28 of the Los Angeles County Code.

PROJECT CONSULTANTS. The professional consultants required by this code which may consist of the design engineer, field engineer, soils engineer, engineering geologist, and landscape architect as applicable to this chapter.

PROFESSIONAL INSPECTION. The inspection required by this code to be performed by the Project Consultants. Such inspections shall be sufficient to form an opinion relating to the conduct of the work.

SITE. A lot or parcel of land or contiguous combination thereof, under the same ownership, where grading is performed or permitted.

SLOPE. An inclined ground surface the inclination of which is expressed as a ratio of horizontal distance to vertical distance.

SOIL. Naturally occurring superficial deposits overlying parent bedrock.

SOILS ENGINEER (GEOTECHNICAL ENGINEER). A civil engineer experienced and knowledgeable in the practice of soils engineering.

SOILS ENGINEERING (GEOTECHNICAL ENGINEERING). The application of the principals of soils mechanics in the investigation, evaluation, and design of civil works involving the use if earth materials and the inspection or testing of construction thereof.

STORM DRAIN SYSTEM. A conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, and man-made channels, designed or used for collecting and conveying stormwater.

STORM WATER POLLUTION PREVENTION PLAN. A site drawing with details, notes, and related documents that identify the measures proposed by the permittee to (1) control erosion and prevent sediment and construction-related pollutants from being carried offsite by stormwater, and (2) prevent non-stormwater discharges from entering the storm drain system.

SURFACE DRAINAGE. Flows over the ground surface.

SOIL TESTING AGENCY. An agency regularly engaged in the testing of soils and rock under the direction of a civil engineer experienced in soil testing.

TERRACE. A relatively level step constructed in the face of a graded slope for drainage and maintenance purposes.

SECTION J103 PERMITS REQUIRED

J103.1 Permits required. Except as exempted in Section J103.2, no grading shall be performed without first having obtained a permit from the Building Official. A grading permit does not include the construction of retaining walls or other structures. A separate permit shall be obtained for each site and may cover both excavations and fills. Any Engineered Grading as described in Section J104 shall be performed by a contractor licensed by the State of California to perform the work described herein. Regular Grading less than 5,000 cubic yards may require a licensed contractor if the Building Official determines that special conditions or hazards exist.

J103.2 Exemptions. A grading permit shall not be required for the following:

1. When approved by the Building Official, grading in an isolated, self-contained area, provided there is no danger to the public, and that such grading will not adversely affect adjoining properties.

2. Excavation for construction of a structure permitted under this code.

3. Cemetery graves.

4. Refuse disposal sites controlled by other regulations.

5. Excavations for wells, or trenches for utilities.

6. Mining, quarrying, excavating, processing or stockpiling rock, sand, gravel, aggregate, or clay controlled by other regulations, provided such operations do not affect the lateral support of, or significantly increase stresses in, soil on adjoining properties.

7. Exploratory excavations performed under the direction of a Geotechnical Engineer or Engineering Geologist. This shall not exempt grading of access roads or pads created for exploratory excavations. Exploratory excavations must not create a hazardous condition to adjacent properties or the public in accordance with Section J101.3. Exploratory excavations must be restored to existing conditions, unless otherwise approved by the Building Official.

8. An excavation that does not exceed 50 cubic yards (38.3 m³) and complies with one of the following conditions:

   (a) is less than 2 feet (0.6 m) in depth.

   (b) does not create a cut slope greater than 5 feet (1.5 m) measured vertically upward from the cut surface to the surface of the natural grade and is not steeper than 2 units horizontal to 1 unit vertical (50 percent slope).

9. A fill not intended to support a structure that does not obstruct a drainage course and complies with one of the following conditions:

   (a) is less than 1 foot (0.3 m) in depth and is placed on natural terrain with a slope flatter than 5 units horizontal to 1 unit vertical (20 percent slope).

   (b) is less than 3 feet (0.9 m) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, does not exceed 50 cubic yards, and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50 percent slope).

   (c) is less than 5 feet (1.5 m) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, does not exceed 20 cubic yards, and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50 percent slope).

![FIGURE J103.2]
Exemption from the permit requirements of this appendix shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

**J103.3 Unpermitted Grading** A person shall not own, use, occupy or maintain any site containing unpermitted grading. For the purposes of this Code, unpermitted grading shall be defined as either of the following: (1) grading that was performed, at any point in time, without the required permit(s) having first been obtained from the Building Official, pursuant to Section J103.1; or (2) grading for which a permit was obtained pursuant to this Section, but which was not completed, pursuant to Section J105, prior to the expiration of the permit, pursuant to Section 106.5.4.

**J103.4 Availability of Permit at Site.** No person shall perform any grading that requires a permit under this chapter unless a copy of the grading permit and approved grading plans are in the possession of a responsible person and available at the site for the Building Official's reference.

**J103.5 Grading Fees.** Fees shall be assessed in accordance with the provisions of this section. The amount of the fees shall be as specified in Section 107 of this code.

1. Plan Review Fees. When a plan or other data are required to be submitted, a plan review fee shall be paid at the time of submitting plans and specifications for review. Separate plan review fees shall apply to retaining walls or major drainage structures as required elsewhere in this code. For excavation and fill on the same site, the fee shall be based on the volume of excavation or fill, whichever is greater.

2. Permit Fees. A fee for each grading permit shall be paid to the Building Official at the time of submitting plans and specifications for review. A fee for each grading permit shall be paid to the Building Official at the time of submitting plans and specifications for review.

3. Site Inspection Fee. When the Building Official finds that a visual inspection of the site is necessary to establish drainage requirements for the protection of property, existing buildings or the proposed construction, a site inspection shall be made during plan check of grading plans. A fee for such inspection shall be paid to the Building Official at the time of submitting plans and specifications for review.

**J103.6 Compliance with Zoning Code.** The Building Official may refuse to issue a grading permit for work on a site if either the proposed grading or the proposed land use for the site shown on the grading plan application does not comply with the provisions of Title 22, entitled "Planning and Zoning," of the Los Angeles County Code.

**J103.7 Grading Security.**

**J103.7.1 Scope and Purpose.** The Building Official may require a permittee or the owner(s) of the property on which the grading is proposed to occur to provide security, as a condition of the issuance of a grading permit for any grading involving more than 1,000 cubic yards (764.6 m³). Where unusual conditions or special hazards exist, the Building Official may require security for grading involving less than 1,000 cubic yards (764.6 m³). The purpose of the security shall be to guarantee the permittee's obligation to mitigate any hazardous conditions, including flood and geotechnical hazards, that may be created if the grading is not completed in accordance with the approved plans and specifications, and to complete any work that the Building Official determines is necessary to bring the property into compliance with this Chapter.

Security required by this Section may include incidental off-site grading on property contiguous with the site to be developed, provided written consent of the owner of such contiguous property is filed with the Building Official. The Building Official may waive the requirements for a security for the following:

1. Grading being done by or for a governmental agency.
2. Grading necessary to remove a geotechnical hazard, where such work is covered by an agreement and security posted pursuant to the provisions of Title 21, entitled Subdivision Ordinance, of the Los Angeles County Code.
3. Grading on a site, not exceeding a slope of three horizontal to one vertical, provided such grading as determined by the Building Official will not affect drainage from or to adjacent properties.

**J103.7.2 Form of Security** The security referred to in Section J103.7.1 shall be in one of the following forms:

1. A bond furnished by a corporate surety authorized to do business in this state.
2. Cash.
3. Savings and loan certificates or shares deposited and assigned to the county as provided in Chapter 4.36 of Title 4 of the Los Angeles County Code.
4. An instrument of credit from a financial institution subject to regulation by the state or federal government and pledging that funds in the amount required by the Building Official are on deposit and guaranteed for payment, or a letter of credit issued by such a financial institution.

**J103.7.3 Amount of Security.** The amount of security shall be based on the number of cubic yards of material in either excavation or fill, whichever is greater, and the cost of all drainage or other protective devices or work necessary to eliminate potential geotechnical hazards. That portion of the security valuation based on the volume of material in either excavation or fill shall be computed as follows:

- 100,000 cubic yards or less - 50 percent of the estimated cost of grading work.
- Over 100,000 cubic yards - 50 percent of the cost of the first 100,000 cubic yards plus 25 percent of the estimated cost of that portion in excess of 100,000 cubic yards.

**J103.7.4 Conditions.** All security shall include the conditions that the principal shall:

1. Comply with all of the provisions of this code, applicable laws, and ordinances;
2. Comply with all of the terms and conditions of the grading permit;
3. Complete all of the work authorized by the permit.

**J103.7.5 Term of Security.** The term of each security shall begin upon the filing with the Building Official and the security shall remain in effect until the work authorized by the grading permit is completed and approved by the Building Official.

**J103.7.6 Default Procedures.** In the event any grading for which a permit has been issued is not completed in accordance with the approved plans and specifications for said work or with all terms and conditions of the grading permit, the Building Official may declare that a default has occurred. The Building Official shall give notice thereof to the principal and surety or financial institution executing the security, or to the owner in the case of a cash bond or assignment.

The Building Official may thereafter determine the work that is necessary to mitigate any hazardous or unsafe conditions on the site and cause such work to be performed.

Where the security consists of a bond or instrument of credit, the surety or financial institution executing the security shall be responsible for the payment of all costs and expenses incurred by the Building Official in causing such work to be performed, up to the full amount of the security. In the case of a cash bond or assignment, the Building Official may pay all costs and expenses incurred in causing such work to be performed from the funds deposited, and return any unused portion of such deposit or funds to the person making said deposit or assignment.

**J103.7.7 Right of Entry.** The Building Official or the authorized representative of the surety company or financial institution executing the security shall have access to the premises described in the permit for the purpose of inspecting the work.

In the event of default, as described in section J103.7.6, the surety...
The plans shall include or be accompanied by the following information:

1. General vicinity of the proposed site.
2. Property limits and accurate contours of existing ground and details of terrain and area drainage.
3. Limiting dimensions, elevations, or finish contours to be achieved by the grading, proposed drainage channels, and related construction.
4. Detailed plans of all surface and subsurface drainage devices, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work. A map showing the drainage area and the estimated runoff of the area served by any drains shall also be provided.
5. Location of any existing or proposed buildings or structures located on the property on which the work is to be performed and the location of any buildings or structures on adjacent parcels, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work.
6. Recommendations in the geotechnical report and the engineering geology report shall be incorporated into the grading plans or specifications. When approved by the Building Official, specific recommendations contained in the geotechnical report and the engineering geology report, that are applicable to grading, may be included by reference.
7. The dates of the geotechnical and engineering geology reports together with the names, addresses, and phone numbers of the firms or individuals who prepared the reports.
8. A statement of the quantities of material to be excavated and/or filled. Earthwork quantities shall include quantities for geotechnical and geological remediation. In addition, a statement of the quantities of material to be imported or exported from the site.
9. A statement of the estimated starting and completion dates for proposed work.
10. A statement signed by the owner, acknowledging that a field engineer, geotechnical engineer and engineering geologist, when appropriate, will be employed to perform the services required by this code, when the Building Official requires that such professional persons be so employed. These acknowledgments shall be on a form furnished by the Building Official.
11. Storm water provisions are required to be shown on the grading plan in accordance with the requirement of Section 106.4.3 of this code. See Section J111 for specific requirements.
12. A drainage plan for those portions of property proposed to be utilized as a building site (building pad), including elevations of floors with respect to finish site grade and locations of proposed stoops, slabs and fences that may affect drainage.
13. Location and type of any proposed private sewage disposal system, including the location of the expansion area.
14. Location of existing and proposed utilities, drainage facilities, and recorded public and private easements, and recorded public and private easements.
15. Location of all Special Flood Hazard Areas as designated and defined in Title 44, Code of Federal Regulations.
16. Location of all Special Flood Hazard Areas as designated and defined in Title 44, Code of Federal Regulations.

J104.3 Geotechnical and Engineering Geology Reports.

The geotechnical report required by Section J104.2.3 shall include data regarding the nature, distribution and strength of existing soils, conclusions and recommendations for grading procedures and design criteria for corrective measures, including buttress fills, when necessary, and an opinion on the adequacy for the intended use of sites to be developed by the proposed grading as affected by geotechnical factors, including the stability of slopes. All reports shall conform with the requirements of Section 111 of this Code and shall be subject to review by the Building Official. Supplemental reports and data may be required as the Building Official may deem necessary. Recommendations included in the reports and approved by the Building Official shall be incorporated in the grading plan or specifications.

The engineering geology report required by Section J104.2.3 shall include an adequate description of the geology of the site, conclusions and recommendations regarding the effect of geologic

or financial institution executing the security or the Building Official, or any person employed or engaged on the behalf of any of these parties shall have the right to go upon the premises to perform the mitigation work, as described in section J103.7.6.

Neither the permittee, owner, or any other person shall interfere with or obstruct the ingress into or egress from any such premises, of any authorized representative of the surety or financial institution executing the security or the Building Official engaged to perform the mitigation work, as described in section J103.7.6.

SECTION J104 PERMIT APPLICATION AND SUBMITTALS

J104.1 Submittal requirements. In addition to the provisions of Section 106, the applicant shall state the following:

1. The estimated quantities of excavation and fill.
2. The proposed land use for the site on which the grading is to be performed.

J104.2 Site plan requirements. In addition to the provisions of Section 106, a grading plan shall show the existing grade and finished grade in contour intervals of sufficient clarity to indicate the nature and extent of the work and show in detail that it complies with the requirements of this code. The plans shall show the existing grade on adjoining properties in sufficient detail to identify how grade changes will conform to the requirements of this code.

J104.2.1 Grading Designation. Grading in excess of 5,000 cubic yards (3825 m³) or that is proposed to support any structure shall be designated as “Engineered Grading.” All engineered grading shall be performed in accordance with an approved grading plan and specifications prepared by a civil engineer, unless otherwise required by the Building Official.

Grading involving less than 5,000 cubic yards (3825 m³) and that will not support any structure shall be designated “Regular Grading” unless the permittee chooses to have the grading designated as engineered grading, or the Building Official determines that, due to the existence of special conditions or unusual hazards, the grading should be designated as engineered grading.

J104.2.2 Regular Grading Requirements.

In addition to the provisions of Section 106, and Section J104.2, for a regular grading permit shall be accompanied by two sets of plans in sufficient clarity to indicate the nature and extent of the work. The plans shall give the location of the work, the name of the owner, and the name of the person who prepared the plan. The plan shall include the following information:

1. General vicinity of the proposed site.
2. Limits and depths of cut and fill.
3. Location of any buildings or structures where work is to be performed, and the location of any buildings or structures within 15 feet (4.6 m) of the proposed grading.
4. Contours, flow areas, elevations, or slopes, which define existing and proposed drainage patterns.
5. Storm water provisions in accordance with the requirements of Section 106.4.3 of this code. See Section J111 for specific requirements.
6. Location of existing and proposed utilities, drainage facilities, and recorded public and private easements and restricted use areas.
7. Location of all recorded floodways as established by Chapter 11.60 of Title 11 of the Los Angeles County Code.
8. Location of all Special Flood Hazard Areas as designated and defined in Title 44, Code of Federal Regulations.
conditions on the proposed development, and an opinion on the adequacy for the intended use of sites to be developed by the proposed grading as affected by geologic factors. The engineering geology report shall include a geologic map and cross sections utilizing the most recent grading plan as a base. All reports shall conform with the requirements of Section 111 of this Code and shall be subject to review by the Building Official. Supplemental reports and data may be required as the Building Official may deem necessary. Recommendations included in the reports and approved by the Building Official shall be incorporated in the grading plan or specifications.

Exception: A geotechnical or engineering geology report is not required where the Building Official determines that the nature of the work applied for is such that a report is not necessary.

J104.4 Liquefaction study. For sites with mapped maximum considered earthquake spectral response accelerations at short periods (Sₜ) greater than 0.5g as determined by Section 1613, a study of the liquefaction potential of the site shall be provided, and the recommendations incorporated in the plans. A geotechnical investigation will be required when the proposed work is a "Project" as defined in California Public Resources Code §2693, and is located in an area designated as a "Seismic Hazard Zone" as defined in Title 14 of the California Code of Regulations §3722 on Seismic Hazard Zone Maps issued by the State Geologist under Public Resources Code §2696.

Exception: A liquefaction study is not required where the Building Official determines from established local data that the liquefaction potential is low.

SECTION J105 INSPECTION

J105.1 General. Grading inspections shall be governed by Section 108 and as indicated herein. Grading operations for which a permit is required shall be subject to inspection by the Building Official. In addition, professional inspection of grading operations shall be performed by the Field Engineer, Geotechnical Engineer and the Engineering Geologist retained to provide such services in accordance with this Section for engineered grading and as required by the Building Official for regular grading.

J105.2 Special and Supplemental inspections. The special inspection requirements of Section 1704.7 shall apply to work performed under a grading permit where required by the Building Official. In addition to the called inspections specified in Section J105.7, the Building Official may make such other inspections as may be deemed necessary to determine that the work is being performed in conformance with the approved plans and specifications and in conformance with the provisions of this code. The Building Official may require investigations and reports by an approved soil testing agency, Geotechnical Engineer and/or Engineering Geologist, and Field Engineer. Inspection reports shall be provided when requested in writing by the Building Official.

The Building Official may require continuous inspection of drainage devices by the Field Engineer in accordance with this Section when the Building Official determines that the drainage devices are necessary for the protection of the structures in accordance with Section 110.

J105.3 Field Engineer. The Field Engineer shall provide professional inspection of those parts of the grading project within such engineer’s area of technical specialty, oversee and coordinate all field surveys, set grade stakes, and provide site inspections during grading operations to ensure the site is graded in accordance with the approved grading plan and the appropriate requirements of this code. During site grading, and at the completion of both rough grading and final grading, the Field Engineer shall submit statements and reports as required by Sections J105.11 and J105.12. If revised grading plans are required during the course of the work they shall be prepared by a Civil Engineer and approved by the Building Official.

J105.4 Geotechnical Engineer. The Geotechnical Engineer shall provide professional inspection of those parts of the grading project within such engineer’s area of technical specialty, which shall include observation during grading and testing for required compaction. The Geotechnical Engineer shall provide sufficient observation during the preparation of the natural ground and placement and compaction of the fill to verify that such work is being performed in accordance with the conditions of the approved plans and the appropriate requirements of this code. The conditions differing from the approved geotechnical engineering and engineering geology reports are encountered during grading, the Geotechnical Engineer shall provide revised recommendations to the permittee, the Building Official and the Field Engineer.

J105.5 Engineering Geologist. The Engineering Geologist shall provide professional inspection of those parts of the grading project within such engineer’s area of technical specialty, which shall include professional inspection of the bedrock excavation to determine if conditions encountered are in conformance with the approved report. If conditions differing from the approved engineering geology report are encountered, the Engineering Geologist shall provide revised recommendations to the geotechnical engineer.

J105.6 Permittee. The permittee shall be responsible for ensuring that the grading is performed in accordance with the approved plans and specifications and in conformance with the provisions of this code. The permittee shall engage project consultants, if required under the provisions of this code, to provide professional inspections on a timely basis. The permittee shall act as a coordinator between the project consultants, the contractor and the Building Official. During site grading, the permittee shall be responsible for informing the Building Official of any such change and shall provide revised plans for approval.

J105.7 Required Inspections. The permittee shall call for an inspection by the Building Official at the following various stages of work and shall obtain the approval of the Building Official prior to proceeding to the next stage of work:

Pre-grade. Before any construction or grading activities occur at the site. Permittee shall schedule a pregrade inspection with the Building Official. The permittee shall ensure that all project consultants are present at the pre-grade inspection.

Initial. When the site has been cleared of vegetation and unapproved fill and has been scarified, benched or otherwise prepared for fill. No fill shall have been placed prior to this inspection.

Rough. When approximate final elevations have been established; drainage terraces, swales and other drainage devices necessary for the protection of the building sites from flooding have been installed; berms have been installed at the top of the slopes; and the statements required by Section J105.12 have been received.

Final. When grading has been completed; all drainage devices necessary to drain the building pad have been installed; slope plants have been established; irrigation systems have been installed; and the as-built plans and required statements and reports have been submitted.

J105.8 Notification of Noncompliance. If, in the course of fulfilling their respective duties under this chapter, the Field Engineer, the Geotechnical Engineer or the Engineering Geologist determines that the work is not being done in conformance with this chapter or the approved grading plans, the Field Engineer, Geotechnical Engineer or the Engineering Geologist shall immediately report, in writing, the discrepancies and the recommended corrective measures to the permittee and to the Building Official.

J105.9 Transfer of Responsibility. If the Field Engineer, the Geotechnical Engineer, or the Engineering Geologist of record is changed at any time after the grading plans required pursuant to Section J104.2.2 or J104.2.3 have been approved by the Building Official, the permittee shall immediately provide written notice of such change to the Building Official. The Building Official may stop the grading from commencing or continuing until the permittee has identified a replacement and the replacement has agreed in writing to assume responsibility for those parts of the grading project that are within the replacement’s area of technical competence.

J105.10 Non-inspected grading. No person shall own, use, occupy or maintain any non-inspected grading. For the purposes of this code, non-inspected grading shall be defined as any grading for which a grading permit was first obtained, pursuant to Section J103, supra, but which has progressed beyond any point requiring inspection and approval by the Building Official without such
J105.11 Routine Field Inspections and Reports. Unless otherwise directed by the Building Official, the Field Engineer for all engineered grading projects shall perform routine field inspections and shall file these reports with the Building Official as follows:
1. Bi-weekly during all times when grading of 400 cubic yards or more per week is occurring on the site;
2. Monthly, at all other times; and
3. At any time when requested in writing by the Building Official.

Such reports shall certify to the Building Official that the Field Engineer has inspected the grading site and related activities and has found them in compliance with the approved grading plans and specifications, the building code, all grading permit conditions, and all other applicable ordinances and requirements. The reports shall conform to a standard “Report of Grading Activities” form, which shall be provided by the Building Official.

J105.12 Completion of work. Upon completion of the rough grading work and at the final completion of the work, the following reports and drawings and supplements thereto are required for engineered grading or when professional inspection is otherwise required by the Building Official:
1. An “As-Built” grading plan prepared by the Field Engineer required to provide such services in accordance with Section J105.3 showing all plan revisions as approved by the Building Official. This shall include original ground surface elevations, as–built ground surface elevations, lot drainage patterns, and the locations and elevations of surface drainage facilities and the outlets of subsurface drains. As-built locations, elevations and details of subsurface drains shall be shown as reported by the geotechnical Engineer.

The As-Built grading plan shall be accompanied by a certification by the Field Engineer that to the best of his or her knowledge, the work within the Field Engineer’s area of responsibility was done in accordance with the final approved grading plan.

2. A report prepared by the Geotechnical Engineer retained to provide such services in accordance with Section J105.4, including locations and elevations of field density tests, summaries of field and laboratory tests, other substantiating data, and comments on any changes made during grading and their effect on the recommendations made in the approved geotechnical engineering investigation report. The report shall include a certification by the Geotechnical Engineer that, to the best of his or her knowledge, the work within the Geotechnical Engineer’s area of responsibility is in accordance with the approved geotechnical engineering report and applicable provisions of this chapter. The report shall contain a finding regarding the safety of the completed grading and any proposed structures against hazard from landslide, settlement, or slippage.

3. A report prepared by the Engineering Geologist retained to provide such services in accordance with Section J105.5, including a final description of the geology of the site and any new information disclosed during the grading and the effect of such new information, if any, on the recommendations incorporated in the approved grading plan. The report shall contain a certification by the Engineering Geologist that, to the best of his or her knowledge, the work within the Engineering Geologist’s area of responsibility is in accordance with the approved engineering geology report and applicable provisions of this chapter. The report shall contain a finding regarding the safety of the completed grading and any proposed structures against hazard from landslide, settlement, or slippage. The report shall contain a final as-built geologic map and cross-sections depicting all the information collected prior to and during grading.

4. The grading contractor shall certify, on a form prescribed by the Building Official, that the grading conforms to said as–built plan and the approved specifications.

J105.13 Notification of completion. The permittee shall notify the Building Official when the grading operation is ready for final inspection. Final approval shall not be given until all work, including installation of all drainage facilities and their protective devices, and all erosion–control measures have been completed in accordance with the final approved grading plan, and all required reports have been submitted and approved.

J105.14 Change of Ownership. Unless otherwise required by the Building Official, when a grading permit has been issued on a site and the owner sells the property prior to final grading approval, the new property owner shall be required to obtain a new grading permit.

SECTION J106 EXCAVATIONS

J106.1 Maximum cut slope. The slope of cut surfaces shall be no steeper than is safe for the intended use, and shall not be steeper than 2 units horizontal to 1 unit vertical (50 percent) unless the applicant furnishes a geotechnical or an engineering geology report, or both justifying a steeper slope. The reports must contain a statement by the Geotechnical Engineer or engineering geologist that the site was investigated and an opinion that a steeper slope will be stable and will not create a hazard to public or private property, in conformance with the requirements of Figure J107.3 or as determined by the Building Official. The Building Official may require the slope of the cut surfaces to be flatter in slope than 2 units horizontal to 1 unit vertical if the Building Official finds it necessary for the stability and safety of the slope.

Exceptions:
1. A cut surface may be at a slope of 1.5 units horizontal to 1 unit vertical (67 percent) provided that all the following are met:
   1.1. It is not intended to support structures or surcharges.
   1.2. It is adequately protected against erosion.
   1.3. It is no more than 8 feet (2.4 m) in height.
   1.4. It is approved by the building official.
   1.5 Ground water is not encountered.

J106.2 Drainage. Drainage, including drainage terraces and overflow protection, shall be provided as required by Section J109.

SECTION J107 FILLS

J107.1 General. Unless otherwise recommended in the soils report, fills shall conform to provisions of this section. Exception: The Building Official may permit a deviation from the provisions of this chapter for minor fills not intended to support structures, where no geotechnical report has been prepared.

J107.2 Preparation of Ground. Fill slopes shall not be constructed on natural slopes steeper than 2 units horizontal to 1 unit vertical (50 percent slope). The ground surface shall be prepared to receive fill by removing vegetation, topsoil and other unsuitable materials (including any existing fill that does not meet the requirements of this chapter), and scarifying the ground to provide a bond with the fill material.

Subdrains shall be provided under all fills placed in natural drainage courses and in other locations where seepage is evident, except where the Geotechnical Engineer or Engineering Geologist recommends otherwise. Such sub-drainage systems shall be of a material and design approved by the Geotechnical Engineer and acceptable to the Building Official. The Geotechnical Engineer shall provide continuous inspection during the process of subdrain installations. The location of the subdrains shall be shown on a plan prepared by the Geotechnical Engineer. Excavations for the subdrains shall be inspected by the Engineering Geologist when such subdrains are included in the recommendations of the Engineering Geologist.

J107.3 Benching. Where existing grade is at a slope steeper than 5 units horizontal to 1 unit vertical (20 percent) and the depth of the fill exceeds 5 feet (1.5 m) benching shall be provided into sound bedrock or other competent material as determined by the Geotechnical Engineer. The ground preparation shall be in accordance with Figure J107.3 or as determined by the Geotechnical Engineer. When fill is to be placed over a cut, a key shall be provided which is at least 10 feet (3.0 m) in width and 2 feet (0.6 m) in depth. The area beyond the toe of fill shall be sloped for sheet overflow or a paved drain shall be constructed thereon. The Geotechnical Engineer or Engineering Geologist or both shall inspect and approve the cut as being suitable for the
foundation and placement of fill material before any fill material is placed on the excavation.

J107.4 Fill material. Fill material shall not include organic, frozen or other deleterious materials. Unless approved by the Building Official, no rock or similar irreducible material greater than 12 inches (0.3 m) in any dimension shall be included in fills. EXCEPTION: The Building Official may permit placement of larger rock when the Geotechnical Engineer deems it necessary to comply with the requirements of this section. In this case, the Geotechnical Engineer shall provide a method of placement and continuous inspection of the placement of the oversized material and whether the work was performed in accordance with the engineer’s recommendations and the approved plans.

1. Prior to issuance of the grading permit, potential rock disposal areas shall be delineated on the grading plan.
2. Rock sizes greater than 12 inches (0.3 m) in maximum dimension shall be 10 feet (3.0 m) or more below grade.
3. Rocks shall be placed so as to assure filling of all voids with well-graded soil.
4. The reports submitted by the Geotechnical Engineer shall acknowledge the placement of the oversized material and whether the work was performed in accordance with the engineer’s recommendations and the approved plans.
5. The location of oversized rock disposal areas shall be shown on the as-built plan.

J107.5 Compaction. All fill material shall be compacted to a minimum of 90 percent of maximum density as determined by ASTM D 1557, Modified Proctor, in lifts not exceeding 12 inches (0.3 m) in depth within 40 feet (12.2 m) below finished grade and 95 percent of maximum dry density deeper than 40 feet (12.2 m) below finished grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the Geotechnical Engineer and approved by the Building Official. Where ASTM D 1557, Modified Proctor is not applicable, a test acceptable to the Building Official shall be used. Field density shall be determined by a method acceptable to the Building Official. However, not less than ten percent of the required density tests, uniformly distributed, shall be obtained by the Sand Cone Method. Fill slopes steeper than 2 units horizontal to 1 unit vertical (50 percent slope) shall be constructed by the placement of soil a sufficient distance beyond the proposed finish slope to allow compaction equipment to operate at the outer surface limits of the fill slope surface. The excess fill is to be removed prior to completion or rough grading. Other construction procedures may be utilized when it is first shown to the satisfaction of the Building Official that the angle of slope, construction method and other factors will comply with the intent of this Section.

J107.6 Maximum fill slope. The slope of fill surfaces shall not be steeper than is safe for the intended use. Fill slopes steeper than 2 units horizontal to 1 unit vertical (50 percent) shall be justified by geotechnical engineering reports conformance with the requirements of Section 111, containing a statement by the Geotechnical Engineer that the site has been investigated and an opinion that a steeper fill slope will be stable and will not create a hazard to public or private property. Substantiating calculations and supporting data may be required where the Building Official determines that such information is necessary to verify the stability and safety of the proposed slope. The Building Official may require the fill slope to be constructed with a face flatter in slope than 2 units horizontal to 1 unit vertical (50 percent slope) if the Building Official finds it necessary for stability and safety of the slope.

J107.7 Slopes to Receive Fill. Where fill is to be placed above the top of an existing slope steeper than 3 units horizontal to 1 unit vertical (33 percent slope), the toe of the fill shall be set back from the top edge of the existing slope a minimum distance of 6 feet (1.8 m) measured horizontally or such other distance as may be specifically recommended by a Geotechnical Engineer or Engineering Geologist and approved by the Building Official.

J107.8 Inspection of Fill. For engineered grading, the Geotechnical Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to ensure that the work is performed in accordance with the conditions of plan approval and the appropriate requirements of this chapter. In addition to the above, the Geotechnical Engineer shall provide continuous inspection during the entire fill placement and compaction of fills that will exceed a vertical height or depth of 30 feet (9.1 m) or result in a slope surface steeper than 2 units horizontal to 1 unit vertical (50 percent slope).

J107.9 Testing of Fills. Sufficient tests of the fill soils shall be made to determine the density and to verify compliance of the soil properties with the design requirements. This includes soil types and shear strengths in accordance with Section J112 Referenced Standards.
but shall not be limited to:
1. Setbacks greater than those required by Figure J108.1.
2. Provisions for retaining walls or similar construction.
3. Erosion protection of the fill slopes.
4. Provision for the control of surface waters.

**J108.4 Alternate Setbacks.** The Building Official may approve alternate setbacks if he or she determines that no hazard to life or property will be created or increased. The Building Official may require an investigation and recommendation by a qualified engineer or engineering geologist to justify any proposed alternate setback.

**SECTION J109 DRAINAGE AND TERRACING**

**J109.1 General.** Unless otherwise recommended by a Civil Engineer and approved by the Building Official, drainage facilities and terracing shall be provided in accordance with the requirements of Section J109.2 for all cut and fill slopes 3 units horizontal to 1 unit vertical (33 percent slope) and steeper.

For slopes flatter than 3 units horizontal to 1 unit vertical (33 percent slope) and steeper than 5 units horizontal to 1 unit vertical (20 percent slope) a paved swale or ditch shall be installed at 30 foot (9.1 m) vertical intervals to control surface drainage and debris. Swales shall be sized based on contributory area and have adequate capacity to convey intercepted waters to the point of disposal as defined in Section J109.1. They shall be reinforced with reinforced concrete not less than 3 inches (0.08 m) in thickness, reinforced with 6-inch (0.2 m) by 6-inch (0.2 m) No.10 by No.10 welded wire fabric or equivalent reinforcing centered in the concrete slab or an equivalent approved by the Building Official. Swales must have a minimum flow line depth of 1 foot (0.3 m) and a minimum paved width of 18 inches (0.5 m). Swales shall have a minimum gradient of not less than 5 percent. There shall be no reduction in grade along the direction of flow unless the velocity of flow is such that slope debris will remain in suspension on the reduced grade.

**J109.2 Drainage Terraces.** Drainage terraces at least 8 feet (2.4 m) in width shall be established at not more than 30 feet (9.1 m) vertical intervals on all cut or fill slopes to control surface drainage and debris. When only one terrace is required, it shall be at midheight. For cut or fill slopes greater than 100 feet (30.5 m) and up to 120 feet (36.6 m) in vertical height, one terrace at approximately midheight shall be 20 feet (6.1 m) in width. Terraces widths and spacing for cut and fill slopes greater than 120 feet (36.6 m) in height shall be designed by the Civil Engineer and approved by the Building Official. Suitable access shall be provided to permit proper cleaning and maintenance.

Drainage swales on terraces shall have a longitudinal grade of not less than 5 percent nor more than 12 percent and a minimum depth of 1 foot (0.3 m) at the flow line. There shall be no reduction in grade along the direction of flow unless the velocity of flow is such that slope debris will remain in suspension on the reduced grade. Drainage swales shall be protected against damage from erosion by planting with deep-rooted plant material needing limited maintenance or by use of erosion control blankets, soil stabilizers or other methods, as approved by the Building Official. A lesser slope may be approved by the Building Official for sites graded in relatively flat terrain, or where special drainage provisions are made, when the Building Official finds such modification will not result in a hazard to life or property.

**SECTION J110 SLOPE PLANTING AND EROSION CONTROL**

**J110.1 General.** The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control shall consist of effective planting, erosion control blankets, soil stabilizers or other means as approved by the Building Official.

**Exception:** Erosion control measures need not be provided on cut slopes not subject to erosion due to the erosion-resistant character of the materials as approved by the Project Consultants, to the satisfaction of the Building Official.

Erosion control for the slopes shall be installed as soon as practicable and prior to calling for final inspection.

**J110.2 Other devices.** Where necessary, check dams, cribbing, riprap or other devices or methods shall be employed to control erosion and provide safety.

**J110.3 Planting.** The surface of all cut slopes more than 5 feet (1.5 m) in height and fill slopes more than 3 feet (9.1 m) in height shall be protected against damage from erosion by planting with grass or ground cover plants. Slopes exceeding 15 feet (4.6 m) in vertical height shall also be planted with shrubs, spaced at not to exceed 10 feet (3.0 m) on centers; or trees, spaced at not to exceed 20 feet (6.1 m) on centers; or a combination of shrubs and trees at an equivalent spacing, in addition to the grass or ground cover plants. The plants selected and planting methods used shall be suitable for the soil and climatic conditions of the site.

Plant material shall be selected which will produce a coverage of permanent planting to effectively control erosion. Consideration shall be given to deep-rooted plant material needing limited watering, maintenance, high root to shoot ratio, wind susceptibility and fire-retardant characteristics. All plant materials must be approved by the Building Official.

Planting may be modified for the site if specific recommendations are provided by both the Geotechnical Engineer and a Landscape Architect. Specific recommendations must consider soils and climatic conditions, irrigation requirements, planting methods, fire retardant characteristics, water efficiency, maintenance needs, and other regulatory requirements. Recommendations must include a...
finding that the alternative planting will provide a permanent and effective method of erosion control. Modifications to planting must be approved by the Building Official prior to installation. A functional test of the system may be required.

For slopes less than 20 feet (6.1 m) in vertical height, hose bibs to permit hand watering will be acceptable if such hose bibs are installed at conveniently accessible locations where a hose no longer than 50 feet (15.2 m) is necessary for irrigation. Irrigation requirements may be modified for the site if specific recommendations are provided by both the Geotechnical Engineer and a Landscape Architect. Specific recommendations must be approved by the Building Official prior to installation. Modifications for irrigation systems must be approved by the Building Official prior to installation.

J110.5 Plans and Specifications. Planting and irrigation plans shall be submitted for slopes required to be planted and irrigated pursuant to Sections J110.3 and J110.4. Except as otherwise required by the Building Official for minor grading, the plans for slopes 20 feet (6.1 m) or more in vertical height shall be prepared and signed by a civil engineer or landscape architect. If requested by the Building Official, planting and irrigation details shall be included on the grading plan.

J110.6 Rodent Control. Fill slopes shall be protected from potential slope damage by a preventative program of rodent control.

J110.7 Release of Security. The planting and irrigation systems required by this section shall be installed as soon as practical after rough grading. Prior to final approval of grading and before the release of the grading security, the planting shall be well established and growing on the slopes and there shall be evidence of an effective rodent control program.

J110.8 National Pollutant Discharge Elimination System (NPDES) Compliance

J110.8.1 General. All grading plans and permits and the owner of any property on which such grading is performed shall comply with the requirements of this section for NPDES compliance. All best management practices shall be installed before grading begins or as instructed in writing by the Building Official for unpermitted grading as defined by Section J103.3. As grading progresses, all best management practices shall be updated as necessary to prevent erosion and to control constructed related pollutants from discharging from the site. All best management practices shall be maintained in good working order to the satisfaction of the Building Official until final grading approval has been granted by the Building Official and all permanent drainage and erosion control systems, if required, are in place. Failure to comply with this Section is subject to “Noncompliance Penalties” pursuant to Section J110.8.5. Payment of a penalty shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work.

J110.8.2 Storm Water Pollution Prevention Plan (SWPPP). The Building Official may require a SWPPP. The SWPPP shall contain details of best management practices, including desilting basins or other temporary drainage or control measures, or both, as may be necessary to control construction-related pollutants which originate from the site as a result of construction related activities. When the Building Official requires a SWPPP, the grading permit shall be issued until the SWPPP has been submitted to and approved by the Building Official. For unpermitted grading as defined by Section J103.3 upon written request a SWPPP in compliance with the provisions of this Section and Section 106.4.3 for NPDES compliance shall be submitted to the Building Official. Failure to comply with this Section is subject to “Noncompliance Penalties” pursuant to Section J110.8.5. Payment of a penalty shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work.

J110.8.3 Wet Weather Erosion Control Plans (WWECP). Where a grading permit is issued and the Building Official determines that the grading will not be completed prior to November 1, the owner of the site on which the grading is being performed shall, on or before October 1, file or cause to be filed with the Building Official a WWECP. The WWECP shall include specific best management practices to minimize the transport of sediment and protect public and private property from the effects of erosion, flooding or the deposition of mud, debris or construction related pollutants. The best management practices shown on the WWECP shall be installed on or before October 15. The plans shall be revised annually or as required by the Building Official to reflect the current site conditions.

The WWECP shall be accompanied by an application for plan checking services and plan-checking fees in an amount determined by the Building Official, up to but not exceeding 10 percent of the original grading permit fee. Failure to comply with this Section is subject to “Noncompliance Penalties” pursuant to Section J110.8.5. Payment of a penalty shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work.

J110.8.4 Storm Water Pollution Prevention Plan, Effect of Noncompliance. Should the owner fail to submit the SWPPP or the WWECP as required by this Section J110.8 or fails to install the best management practices, it shall be deemed that a default has occurred under the conditions of the grading permit security. The Building Official may thereafter enter the property for the purpose of installing, by County forces or by other means, the drainage, erosion control and other devices shown on the approved plans, or if there are no approved plans, as the Building Official may deem necessary to protect adjoining property from the effects of erosion, flooding, or the deposition of mud, debris or constructed related pollutants.

The Building Official shall also have the authority to impose and collect the penalties imposed by Section J110.8.5. Payment of a penalty shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work.

The amount of the penalties shall be as follows:

1. If a SWPPP or a WWECP is not submitted as prescribed in Sections J110.8.2 and J110.8.3:
   - Grading Permit Volume
     - 1--10,000 cubic yards (1--7645.5 m$^3$) $500.00 per day
     - 10,001--100,000 cubic yards (7646.3--76455 m$^3$) $250.00 per day
     - More than 100,000 cubic yards (76455 m$^3$) $500.00 per day

2. If the best management practices for storm water pollution prevention and wet weather erosion control, as approved by the Building Official, are not installed as prescribed in this Section J110.8:
   - Grading Permit Volume
     - 1--10,000 cubic yards (1--7645.5 m$^3$) $100.00 per day
     - 10,001--100,000 cubic yards (7646.3--76455 m$^3$) $250.00 per day
     - More than 100,000 cubic yards (76455 m$^3$) $500.00 per day

NOTE: See Section 108 for inspection request requirements.

SECTION J111

REFERENCED STANDARDS

These regulations establish minimum standards and are not intended to prevent the use of alternate materials, methods or means of conforming to such standards, provided such alternate has been approved.

The Building Official shall approve such an alternate provided he or she determines that the alternate is, for the purpose intended, at least the equivalent of that prescribed in this Code in quality, strength, effectiveness, durability and safety.
The Building Official shall require that sufficient evidence or proof be submitted to substantiate any claims regarding the alternate. The standards listed below are recognized standards. Compliance with these recognized standards shall be prima facie evidence with the standard of duty set forth in Section J107.

- ASTM D 1557 Laboratory Characteristics Compaction of Soil Using Modified Effort
- ASTM D 1556 Density and Unit Weight of Soils In Place by the Sand Cone Method
- ASTM D 2167 Density and Unit Weight of Soils In Place by the Rubber—Balloon Method
- ASTM D 2937 Density of Soils in Place by the Drive-Cylinder Method
- ASTM D 2922 Density of Soil and Soil Aggregate In Place by Nuclear Methods
- ASTM D 3017 Water Content of Soil and Rock in Place by Nuclear Methods
FIGURE 1 – TYPICAL HILLSIDE CUT OVER FILL LOT

Note: Intended only as a general guideline. For specific site recommendations, a soils engineer should be consulted.

FIGURE 2 – TYPICAL BUTTRESS FILL SECTION

Note: Intended only as a general guideline. For specific site recommendations, a soils engineer should be consulted.
FIGURE 3 – RECOMMENDED MINIMUM SLOPE DRAINAGE DEVICES

Not to Scale

Note: Grading inspection during installation is required for all devices. Must pre-wet graded swales prior to paving. Paved drains must be cured with a moisture loss retarder.
FOUNDATION/BUILDING SETBACKS TO SLOPES

1808.7 Foundations on or adjacent to slopes. The placement of buildings and structures on or adjacent to slopes steeper than one unit vertical in three units horizontal (33.3-percent slope) shall comply with Sections 1808.7.1 through 1808.7.5.

1808.7.1 Building clearance from ascending slopes. In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided in Section 1808.7.5 and Figure 1808.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

1808.7.2 Foundation setback from descending slope surface. Foundations on or adjacent to slope surfaces shall be founded in firm material with an embedment and set back from the slope surface sufficient to provide vertical and lateral support for the foundation without detrimental settlement. Except as provided for in Section 1808.7.5 and Figure 1808.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than 1 unit vertical in 1 unit horizontal (100-percent slope), the required setback shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

1808.7.3 Pools. The setback between pools regulated by this code and slopes shall be equal to one-half the building footing setback distance required by this section. That portion of the pool wall within a horizontal distance of 7 feet (2134 mm) from the top of the slope shall be capable of supporting the water in the pool without soil support.

1808.7.4 Foundation elevation. On graded sites, the top of any exterior foundation shall extend above the elevation of the street gutter at point of discharge or the inlet of an approved drainage device a minimum of 12 inches (305 mm) plus 2 percent. Alternate elevations are permitted subject to the approval of the building official, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

1808.7.5 Alternate setback and clearance. Alternate setbacks and clearances are permitted, subject to the approval of the building official. The building official shall be permitted to require a geotechnical investigation as set forth in Section 1803.5.10.
SLOPE SETBACK REQUIREMENTS FROM PROPERTY LINES

**J108.1 General.** Cut and fill slopes shall be set back from the property lines in accordance with this section. Setback dimensions shall be horizontal distances measured perpendicular to the property line and shall be as shown in Figure J108.1, unless substantiating data is submitted justifying reduced setbacks and reduced setbacks are recommended in a geotechnical engineering and engineering geology report approved by the Building Official.

**J108.2 Top of slope.** The setback at the top of a cut slope shall not be less than that shown in Figure J108.1, or than is required to accommodate any required interceptor drains, whichever is greater. For graded slopes the property line between adjacent lots shall be at the apex of the berm at the top of the slope. Property lines between adjacent lots shall not be located on a graded slope steeper than to 5 units horizontal to 1 unit vertical (20 percent slope).

**J108.3 Toe of Fill Slope.** The setback from the toe of a fill slope shall not be less than that shown by figure J108.1. Where required to protect adjacent properties at the toe of a slope from adverse effects of the grading, additional protection, approved by the Building Official, shall be included. Such protection may include but shall not be limited to:

1. Setbacks greater than those required by Figure J108.1.
2. Provisions for retaining walls or similar construction.
3. Erosion protection of the fill slopes.
4. Provision for the control of surface waters.

**J108.4 Alternate Setbacks.** The Building Official may approve alternate setbacks if he or she determines that no hazard to life or property will be created or increased. The Building Official may require an investigation and recommendation by a qualified engineer or engineering geologist to justify any proposed alternate setback.
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