SECTION 21

CONTRACTOR'S AND DEVELOPER'S RESPONSIBILITIES

21-1 GENERAL - All improvements within City of Roseville rights-of-way, and easements, and onsite private drainage improvements shall be installed in accordance with the approval improvement plans and specifications, the City of Roseville Design and Construction Standards, the Stormwater Quality Design Manual for the Sacramento and South Placer Regions, the City of Roseville Stormwater Quality BMP Guidance Manual for Construction, and the State of California Department of Transportation Standard Specifications, hereinafter referred to as the Caltrans Standard Specifications. The latest Caltrans edition which specifies U.S. Customary Units of ounces and inches shall apply to these Construction Standards with the exception of Traffic Sections 56, 82, 84, 85 and 86, which will conform to the latest edition of the Caltrans Standard Specifications. The public roadway infrastructure improvements shall be designed and constructed in accordance with these Design and Construction Standards and the latest edition of the City's American Disabilities Act (ADA) Transitions Plan. Should there be any discrepancy between these Standards and the ADA Transition Plan with respect to accessibility, the ADA Transition Plan shall have precedence. Caltrans Standard Specifications shall apply where not superseded by these Construction Standards. The Contractor shall follow all applicable City, County, State and Federal laws and regulations relating to construction on the improvements.

21-2 CONTRACTIOR'S RESPONSIBILITY - It shall be the Contactor's responsibility for:

A. Plans - Perform construction per plans signed and approved by all required City of Roseville Departments. Any additions, deletions or changes to the approved plans shall be submitted to said departments for review and approval prior to construction.

B. Notification - The Contractor shall schedule a preconstruction meeting with the Development Services Department (DSD), the Environmental Utilities Departments (EUD) and any other departments reviewing and inspecting the improvements. The meeting shall take place a minimum of 48 hours prior to the start of construction. The preconstruction meeting shall not be scheduled prior to the City departments' receipt of approved plans.

Minimum advance notice to the City's Construction Inspector for inspection shall be 48 hours. The City's Construction Inspector shall

have the opportunity to inspect all underground/subsurface improvements prior to backfill or cover.

C. U.S.A. Markings - White paint shall be used to indicate areas to be marked by Underground Service Alert (U.S.A.). Any areas not marked shall not be included in the U.S.A. and the Contractor shall not excavate in these areas. The Contractor will be responsible for any damage resulting from excavation in unmarked areas. The Contractor or Applicant who requested the USA markings shall be responsible for the removal of the USA markings upon completion of the work, at the discretion of the City Engineer.

The location of storm drain lines is not included within the USA markings. The Contractor shall take routine precautions to ascertain the location of storm drain pipes prior to excavating around them. Contractor shall notify the City's Construction Inspector when the storm drain system is affected.

D. Testing - Constructed utilities shall be tested in accordance with these Construction Standards.

E. Cultural Resources - The Contractor shall stop construction if cultural resources are discovered during excavation operations. It is possible that previous activities have obscured surface evidence of cultural resources.

If signs of an archeological site, such as any unusual amounts of stone, bone, or shell are uncovered during grading or other construction activities, work shall be halted within 100 feet of the find and the Roseville Community Development Department shall be notified immediately. A qualified archaeologist shall be consulted for an on-site evaluation. Additional mitigation may be required by the archaeologist.

F. Hazardous or Toxic Materials and Contaminated Soils – Should the Contractor encounter hazardous or toxic materials, or contaminated soils, or materials which the Contractor believes may be hazardous waste during any and all excavation or grading operations, as defined in Section 25117 of the Health and Safety Code, which require them to be moved to a Class I, Class II or Class III disposal site in accordance with provisions of existing law, the City of Roseville Fire Department shall be contacted immediately. The area which contains the hazardous or toxic materials or contaminated soils shall be marked off until an investigation by a member of the Fire Department is conducted. The cost for remediation and/or removal of soil shall be bourn solely by the Contractor/Property owner. The parties intend that this provision be broadly construed.

G. Working Hours - In accordance with the City of Roseville's noise ordinance, the hours of project construction shall be limited to the following:

7:00AM to 7:00PM, Monday through Friday
8:00AM to 8:00PM, Saturday, Sunday and Holidays

There may be additional limitations placed on working hours specified in the project's approved plans, conditions of approval, special provisions, or encroachment permit.

H. Emergency Contact person - Prior to the commencement of project construction, the City's Construction Inspector shall be furnished with the name and telephone number of a contact person who can be reached 24 hours per day regarding problems or emergencies at the site.

I. Traffic Control - A traffic control plan (TCP) shall be submitted whenever required by the City's Construction Inspector.

Traffic control plans may not be required, when in the opinion of the City's Construction Inspector, the situation is adequately covered by the State of California Manual on Uniform Traffic Control Devices (latest edition). When the City's Construction Inspector has determined a TCP is required, the Contractor shall submit the plan to the City's Construction Inspector in accordance with Section 12 of these Standards for acceptance by the City's Traffic Engineering Section. The plan shall include: The project title, the encroachment permit number if applicable, the requested traffic alteration specifics and the requested working hours. Upon the Traffic Engineering Section's acceptance of the plan, the Contractor shall obtain it directly from the Traffic Engineering Section. Upon issuance, the TCP shall be available at the site at all times during the work. The Contractor shall assure that the traffic control equipment is erected prior to the work beginning and that it is removed immediately when appropriate.

1. **Start of Construction -** Construction within City rights-of – way shall not start until all equipment required by the California MUTCD Part 6 has been erected, all required permits from other agencies have been obtained and the Contractor has obtained approval from the City's Construction Inspector. Parties not obtaining prior approval shall be subject to a stop-work order from the City. The TCP shall be the primary governing traffic document. All residences and businesses shall be notified by the Contractor 48 hours prior to site access being affected.

2. **Lane Changes and Closures and Street Closures -** Lanes shall be closed or transitioned conforming to the California MUTCD, or the approved TCP. See Detail ST-40 for the standard lane closure. Lane closures shall not be allowed when the visibility is less than ¼ mile due to fog, dust or rain.

   A lighted arrow board may be employed as an additional lane change measure and shall always be used for lane changes and closures ½ hour after sunset to ½ hour before sunrise.

   Lane closures/transitions are only permitted from 8:30 AM to 4:00 PM unless otherwise noted on the approved TCP.

   Traffic control devices/equipment setup/placement shall be accomplished in a manner which renders the safest condition for drivers, pedestrians and workers. As examples, warning signs should be erected prior to erection of cones or delineators.

   The worker who places the cones or delineators should be accompanied by a helper to watch on-coming traffic. The reverse should apply upon removal of the equipment.

   Street closures shall be subject to the approval of the Traffic Engineering Section. Appropriate traffic control and detour plans shall be submitted to the Traffic Section via the City's Construction Inspector 96 hours prior to the proposed closure. The closure shall not be scheduled until plan approval is received. Notification of all concerned agencies including City Public Information, Fire, Police, Refuse, school and public bus systems and ambulance services shall be the responsibility of the Contractor, a minimum of 48 hours in advance of the closure.

3. **Flag Persons -** Flag persons shall be equipped as required in the governing manual with bright colored or fluorescent vests or clothing, flags and/or stop/slow paddles and other equipment as needed. During darkness, clothing shall be reflectorized and shall be visible for one thousand feet and the flag person shall be equipped with a flashlight with an orange or lime green cone. During darkness, flaggers' stations shall be illuminated per the California MUTCD.

4. **Adjacent Roadway Excavation -** Where excavation adjacent to an existing roadway results in an elevation difference of greater than 0.16 foot, the excavated area shall be filled with compacted aggregate base (3/4 inch minus), flush with the adjacent roadway at a slope not to exceed 4:1 (horizontal to vertical) prior to the end

of each workday. Native fill may be used with the approval of the City's Construction Inspector. Delineators shall be placed two feet off the edge of pavement. The spacing (in feet) of the delineators shall correspond to the speed limit.

Where concrete forms are placed within three feet of the existing pavement edge, the preceding requirement may be exempted overnight upon the placement of appropriate delineation and the approval of the City's Construction Inspector.

Unless construction is prohibited by rain, the Contractor shall be aggressive in completing work in the City right of way following excavation and/or removal of existing improvements for same and in opening the thoroughfare up to the public as soon as is practically possible.

5. **Steel plates -** Every effort shall be made to assure the excavation in existing street is backfilled, compacted and cut-backed at the end of each work day. Plates shall be pinned at the discretion of the City's Construction Inspector.

   Steel plates shall not be used over trench areas without the approval of the City's Construction Inspector. Steel plates shall have an ante-skid surface.

   All excavations covered by steel plates shall be shored. Adequate temporary pavement (cut-back) shall be used to secure the plate and as a traffic transition. Grade differences between the plate and the existing pavement may require notching of pavement for acceptable transitions.

   A W-33 (Rough Road") or W-37 ("Bump") sign shall be installed 200 feet ahead of the steel plate. The sign may be mounted to an operable, lighted barricade for a maximum of 24 hours. The sign shall be mounted to a 4"x4" post for a period exceeding 24 hours.

6. **Sidewalk Removal -** Barricades are required where construction requires the removal of sidewalk or curb and gutter. Wooden lathe with flagging or cones shall not be allowed. Signs indicating "Sidewalk Closed" shall be installed at the ends of construction areas, or where required by the City's Construction Inspector.

7. **Barricades -** Barricades shall be Type 2 per Caltrans Specifications. Barricades shall only be used where collision with an object would be more severe than collision with the barricade and as approved by the City's Construction Inspector. Barricades

placed in an excavated street section adjacent to a traffic lane shall be placed at a maximum 50 feet interval.

8. **Temporary Fencing -** Any excavation exceeding two feet in depth, left unattended outside project work hours, within a close proximity to or within a City right-of-way or easement shall be enclosed with a six foot high temporary fence.

   Where temporary fencing is placed along the street in the gutter Pan or at the back of City sidewalk, a delineator or cone shall be placed at a maximum 50 foot interval along the outside of the fence.

9. **Warning Signs** - All traffic warning signs shall be a minimum 36 inches square; shall be mounted on a metal flag tree assembly and shall include two flags each, fully exposed above the sign. The sign shall only be metal, fabric or as approved by the City's Construction Inspector. The top of the sign shall be a minimum six feet high. No sign shall be placed on a barricade unless specifically allowed by the City's Construction Inspector or specified by the Traffic Control Plan.

   Upon the approval of the City's Construction Inspector, signs may be place on a 4x4 wood post for long durations. Clearance shall be seven feet from finish grade to bottom of sign.

   Signs which are prefabricated to be site specific which may specify detour routing and street names shall be steel or aluminum, 0.080 gauge.

   Minimum six inch black letters shall be employed on a clean, traffic orange background. The signs shall be approved by the Traffic Engineering Section prior to erection.

10. **Cones and Delineators** - Cones shall be a minimum 28 inches in height and delineators a minimum 36 inches high by three inches in diameter. Delineators shall include white or yellow reflective stripe(s). Cones shall include a white or yellow reflective sleeve after dark. Yellow reflective material shall be used between opposing traffic and white at the side of the roadway. Only cones, delineators, k-rail, temporary striping or temporary tape shall be used to temporarily channelize traffic.

J. Preservation of Property - The Contractor shall take extreme care to protect existing site and adjacent improvements from damage.

The Contractor shall be responsible for any damage resulting from the construction and shall be responsible for repair or replacement conforming to the latest standards.

K. Personnel - Only personnel competent in the particular trade undertaken shall be employed for the construction work.

L. Weather - Construction work shall not commence or progress when the weather jeopardizes a safe working environment or the quality of the project in any manner.

Construction activities within or adjacent to the public right of way during inclement weather may be prohibited where the activity constitutes an unsafe condition for the public and/or the workers. This applies to the traveled way and any work area adjacent to the traveled way.

M. Trenching Safety – Prior to excavation of trenches 5 feet or deeper, the Contractor shall submit the following to the City's Construction Inspector:

1. A copy of the company's annual CALOSHA trenching permit.

2. A copy of the company's letter informing CALOSHA of the time the trenching is commencing and the location of the work.

Prior to trenching within any City street right-of-way or easement, an encroachment permit shall be obtained from the Development Services Department, Engineering Division.

In unimproved areas, the maximum length of open trench (five feet in depth or more) shall be that which can be trenched and backfilled in one day. Any trench left open over night and the method of protection thereof shall be approved by the City's Construction Inspector.

In existing streets, following trenching and pipe laying, backfill shall be accomplished immediately unless approved otherwise by the City's Construction Inspector. No excavation which is larger than necessary to leave the end of the pipe exposed for the next work day shall remain open at the end of the day. The excavation shall be plated and/or fenced, subject to the approval of the City's Construction Inspector and in accordance with the City's Trench Cut Ordinance.

N. Trailer and Material Storage - Dumpsters, construction materials or equipment shall not be placed in the City of Roseville

right-of-way without first obtaining an Encroachment Permit from the DSD. As a minimum, two, operable, Type II, lighted barricades shall be place at each end of the obstacle. The Encroachment Permit conditions may indicate additional reflectorization requirements.

Use of the City right of way should not be requested if there is adequate storage space on-site. Construction offices or material trailers shall not be placed within the City right-of-way with one exception. A trailer with a current California license may be parked along the edge of the street within a subdivision for a period of 72 hours, provided the travel ways are unobstructed and two operable, lighted barricades are placed at each end of the trailer.

O. Street Cleaning - Where dirt, mud, rock, sand or other foreign material are tracked onto public street pavement, the Contractor shall clean the streets daily, or as directed by the City's Construction Inspector. If the Contractor fails to keep the streets clean, the City may clean the areas and bill the Contractor. Streets shall be cleaned with a power broom or hand brooms and shall not be washed with water without the approval of the City's Construction Inspector. Any mud displaced into the City storm drain system by the Contractor shall be removed at the discretion of the City's Construction Inspector.

P. Interruption of Parking Areas - Where parking needs to be interrupted by construction work, the Contractor shall place Type II barricades with "No Parking" notices behind the curb, adjacent to the respective parking area, a minimum of 24 hours prior to the start of construction. For more information on street cleaning, see Roseville's Stormwater BMP Guidance Manual for construction**.**

Information on the notice shall include the date and times that parking is prohibited and shall be legible from a distance of 25 feet. Barricades/notices shall be placed at a minimum interval of one per parking space.

Q. Contractor Employee Vehicle Parking - The Contractor's employee parking shall be limited to designated areas on-site, and shall not encroach into designated wetland areas, tree protected zones or any other areas protected by jurisdictional boundaries, Conditions of Approval or City ordinances.

R. Construction Safety - Construction safety within the City of Roseville shall be governed by the Construction Safety Orders of the Occupational Safety and Health Standards of Title 8 of the California Code of Regulations.

S. Blasting and Explosive Requirements - The contractor shall have a valid California State Blasting License issued from the State of California Department of industrial Relations, Occupational Safety and Health Administration, and a City of Roseville Business License. Additionally, the Contractor shall obtain a City of Roseville "Explosives Application/Permit" from the City's Fire Department prior to any and all blasting within the limits of the City of Roseville. The Contractor shall have on file, and keep current, the required insurance documents established by the Risk Manager's Office. The Contractor shall notify the following City Departments 72 hours in advance of blasting. (If the blasting event involves a street closure or public safety concern, the City reserves the right to require more notification time.) :

Police Dispatch:	774-5117
Public Information Office:	774-5201
Development Services Engineering:	774-5339

T. Pavement Milling Requirements - All Milled edges perpendicular and diagonal to the travel way shall be temporarily transitioned at 30:1 slope with temporary pavement (cut-back). A W8-8 ("Rough Road") or W8-1 ("Bump") sign shall be installed 200 feet ahead of the pavement milled location. The sign may be mounted to a metal flag tree stand for a maximum of 24 hours. The sign shall be mounted to a "4 X 4" post for a period exceeding 24 hours.

U. Discharge Fluid From Boring Operations - Utilizing the City's drainage system for residual discharge from boring equipment without the required measures is prohibited. This discharge is a violation of the Clean Water Act. Discharging into an open area without the approval is also not allowed.

All street boring shall include adequate measures to mitigate muddy water discharge. An acceptable measure is pumping the discharge fluid into a tanker and hauling it away. Other measures suggested by the Contractor will be considered by the City. For more information concerning discharge fluid from boring operations, see Roseville's Stormwater BMP Guidance Manual for construction.

V. Concrete Truck Washout Areas - The Contractor shall use precautions and or devices for the protection of storm drain inlets, wetlands, vernal pools and sensitive open space areas which may border the respective project. The washout area shall be confined to respective site. For more information concerning concrete truck washout areas, see Roseville's Stormwater BMP Guidance Manual for Construction at:
http://www.roseville.ca.us/ ds/engineering/construction_management/stormwater.asp

21-3 DEVELOPER'S RESPONSIBILITY - It shall be the Developer's responsibility for:

A. Record Drawings-PDF electronic, two sets of blue line prints (1 set of 24"x36" and 1 set of 11"x17") shall be submitted to City's Construction Inspector as a condition of the Certificate of Completion.

21-4 MINIMUM REQUIREMENTS FOR MODEL HOME BUILDING PERMITS

Model home building permits will be issued upon the City's satisfaction of all requirements specified in the "Model Home Complex application and building permit submittal and development department inspection checklist, issued by the Permit Center. This includes the following Development Services Department requirements:

A. The pad grades for the model home lots have been certified for compaction by a geotechnical engineer and for conformance to the grading plan elevations by a registered Civil Engineer or a Land Surveyor and approved by the City Engineer. Original stamped certifications are required.

B. All property corners for each of the model home lots shall be staked with permanent markers to the satisfaction of the City Engineer. If curb, gutter and sidewalk has been placed at the time for which model home permits are applied, the front property corners shall be marked per Section 71-4 F. of the Standards.

C. All utilities, utility crossings and utility extensions to each lot, located within the roadway, shall be installed.

Utilities include, but are not limited to: natural gas, electric, cable, telephone, water, sewer and storm drain.

D. Access to the model homes from future streets within the subdivision or from approved alternative access does not cross the alignment of any future utility to be installed with the Subdivision Improvements, as determined by the City Engineer.

E. Fire hydrants must be located within 500 feet of all combustible materials and be capable of delivering adequate fire flows to the satisfaction of the Fire Marshall.

F. For every issuance of model permits access to the model homes must be paved and connected to a maintained public street to the satisfaction of the City Engineer.

If the sub divider intends to obtain an alternative access to the model homes from an adjacent maintained public street, the sub divider shall obtain approval from the City Engineer and Fire Marshal.

The City Engineer may require all work and construction on the model homes to cease at any time until all or additional portions of the subdivision improvements are finished in order to protect the health, safety or welfare of the public and workers.

21-5 MINIMUM REQUIREMENT FOR PRODUCTION HOME BUILDING PERMITS

Production home building permits may be issued once the subdivision improvements are substantially complete.

The subdivision shall be deemed to be substantially complete by the Public Works Inspector when the following items are completed or verified:

A. All surface street improvements (sidewalks, curbs, gutters, ramps, driveways and street paving) are installed.

B. Raise and pave all manholes and water valves.

All water, sewer and storm drainage components shall be tested, approved and operational. This includes conformance to the City of Roseville Fire Department's minimum flows for all fire hydrants.

C. Ball and flush all sewers.

D. Install all underground gas, electric, telephone and TV cable facilities and backfill trenches.

E. Submit lot pad certifications for grade and compaction. Original stamped certifications required.

F. Mark lot corners in City sidewalk or curb and gutter and at the back of lots.

G. Install erosion and sediment control measures, including storm water outfalls as shown on the approved plans and fully implement Stormwater Pollution Protection Plan, (SWPPP).

H. Install street name and traffic signs and striping.

I. Construct all common lot retaining walls per the improvement plans.

J. Assure final subdivision map is recorded.

K. Completion of sound walls shall be a condition of building permit issuance, only where the sound wall backs up to existing, adjacent residences.

21-6 REQUIREMENTS FOR SUBDIVISION CERTIFICATE OF COMPLETION (C.O.C)

Prior to acceptance of public improvements by the Roseville City Council, the following items must be completed and provided to the City's Construction Inspector:

A. The Contractor or Developer shall request a final inspection and punch list for the constructed improvements from the City Development Services Engineering Department. As each department approves the completion of punch list items and appropriate conditions of approval, that acceptance will be placed in the Permits System. Upon receipt of all applicable approvals, Engineering will consolidate the C.O.C. package and forward it to City Council for approval.

B. PDF Electronic, two sets of blue line prints (1 set of 24"x36" and 1 set of 11"x17").

C. Lot pad elevation and compaction certifications, (original stamped documents).

D. Payment of all outstanding plan check and inspection fees.

E. Maintenance Bond to cover one year construction maintenance warranty period.

F. Written certification from the applicating Contractor that anti-graffiti coat has been placed on all sound and retaining walls conforming to the Roseville Construction Standards and manufacturer's recommendations.

G. Per Roseville Municipal Code, Section 19.64.050 P., where model home complex trap fencing is used, it shall be placed behind the City sidewalk.

H. Annual Stormwater Maintenance Agreement.

21-7 RESIDENTIAL OCCUPANCIES DURING RESIDENTIAL BUILDING - Upon the occupancy of one or more homes in public or private subdivisions, the occupant (s) shall have a safe, clean, un-obstructed travel way, including sidewalks, in accessing and exiting the area of their home, applying to newly constructed streets within the subdivision extending to the closest existing street. The following minimum standards are to be met:

A. Streets shall be thoroughly cleaned, back of walk to back of walk at the end of each work day.

B. No building materials, portable toilets or construction equipment shall be stored within the street right-of-way. Portable toilets shall be a minimum of 50 feet from drain inlets.

A trailer with a valid California license may be parked along edges of the street within a subdivision for a period of 72 hours, provided the travel ways are unobstructed and each outside corner of the trailer has lighted barricades.

Erosion control materials at drain inlets such as straw bales and gravel bags shall be removed. Silt bags which are in drain inlets fronting homes with completed landscaping shall be removed.

C. Landscaping related materials (such as cobbles, bark or gravel) may be staged in the streets for immediate removal. If stored overnight, a lighted barricade shall be placed on each side of the pile, toward traffic. The pile shall not extend into the street from the curb further than the width of a parked car.

D. Unoccupied cul-de-sacs or other section of streets for which there is no public access necessary shall be barricaded. Barricades shall be Type III (or fencing as approved by the City Fire Department), subject to the approval of the City Engineer.

E. Completion of the street lighting system shall be a condition of home occupancy and not a condition of building permit issuance.

F. All other requirements within the Subdivision Ordinance and Building Division regulations for approval of occupancy shall apply.

21-8 GUARANTEE AND WARRANTY - The Contractor shall guarantee and warrant all materials supplied as being fit for the purposes intended. The Contractor shall guarantee and warrant all work preformed as having been accomplished in a proper and workman-like manner.

Should any failure of work occur within the warranty period, the Contractor shall promptly make the needed repairs at the Contractor's own expense. Should such failure of work result in excessive maintenance by the City, or in the opinion of the City, the failure is best left unrepaired, the Contractor shall incur the additional maintenance cost.
The cost shall be equal to the annual maintenance cost divided by the current prime rate. Should the Contractor not make or undertake the

Necessary repairs within 30 days of having received written notification from the City Engineer, the City may make the repairs and the Contractor shall pay the entire cost thereof.

In emergency cases, where in the opinion of the City Engineer (provided a Reasonable attempt has been made to notify the Contractor) delay would cause serious loss or damages, or a serious hazard to the public, the repairs may be made without prior notice to the Contractor, and the Contractor shall pay the entire cost thereof.

The procedures for review, repair and release of guarantee and warranty obligations shall be as follows:

A. Subdivision Improvements - The guarantee and warranty shall continue for a period of one year after Certificate of Completion for all public improvement work installed under any Subdivision Agreement. The Subdivision Agreement shall be binding in its entirety.

The following procedures shall be followed for completion of the guarantee and warranty for subdivision improvement:

1. All necessary City departments shall complete their guarantee and warranty inspections during approximately the tenth month following the Notice of Completion and prepare and deliver a final punch list to the Contractor by approximately the end of the tenth month.

2. Within 30 days of receipt of the final punch list (during the eleventh month), the Contractor shall repair or address all items indicated. All City departments issuing a punch list shall then be notified for re-inspection of repairs.

3. Within 30 days of notifying the Contractor (by the end of the eleventh month), the City departments shall re-inspect the repaired improvements.

Upon the City's approval of the repairs, the maintenance bond will be allowed to expire, at the conclusion of one year following the Certificate of Completion. If the Contractor does not complete the

required work by the end of the eleventh month, the list of repairs will be referred to the City Attorney's office for further management.

Any subdivision improvement work subject to the one year warranty shall require the issuance of an encroachment permit.

B. Encroachment Permit Improvements - The guarantee and warranty shall continue for a period of 180 days after approval from all City departments affected, for all work installed and completed under an Encroachment Permit for projects valued less than $25,000.00. For projects valued greater than $25,000.00, as determined by the Director, the warranty period shall be 365 days. Upon the permittee's request, the performance security shall be replaced with a warranty security equal to 10 percent of the project costs. Upon final inspection following the warranty period all securities will be released. The Encroachment Permit Shall be binding in its entirety. The following procedures shall be followed for completion of the guarantee and warranty for encroachment permit improvements:

1. All necessary City departments shall complete their guarantee and warranty inspections during the last two weeks of the fifth month following the date of the City's acceptance of the work.

2. The Contractor shall be issued a punchlist upon the conclusion of the two week inspection period.

3. The Contractor shall complete the required repair work by the end of the sixth month following the initial approval of the work.

4. Within 30 days of notification, the City departments shall re-inspect repaired improvements, and upon approval of the repaired improvements, shall notify the City Clerks office for release of the Encroachment Bond.

C. Underground Warranty Work Within City Street Right-of-Way - All underground work done as a result of the of the one year warranty inspection shall comply with the following:

1. All backfill in City streets shall be two sack, slurry cement.

2. The asphalt concrete patch shall conform to Construction Standard Details TB-1 or TB-3 and the Trench Cut Ordinance. Determination of Detail TB-1 or TB-3 shall be at the developer's discretion.

3. Depending upon the extent of asphalt concrete patching necessary and at the discretion of the City's Construction Inspector, a

CalTrans Type II slurry seal or one inch asphalt concrete overlay of the entire street width in the area of the patches may be required.

4. Pavement cracking: Depending upon the extent of cracking and at the discretion of the City's Construction Inspector, cracks shall be sealed per Section 71-4 D (Asphalt Concrete Paving) of these Standards.

Crack sealing shall be followed with a slurry seal or one inch asphalt concrete overlay which shall be applied to the entire street width in the area of the cracks as required by the City's Construction Inspector.

D. EUD's Policy on Warrant Repairs on Sewer Stub and Services

1. Sewer Services to residential and commercial subdivision lots under warranty: Where a project inspection identifies defects in a sewer service and the sewer main is still within the warrant period, the responsibility to repair the service rests solely on the developer who installed the sewer main.

2. Sewer services to residential and commercial subdivisions outside of warranty: Where a project inspection identifies defects in a sewer service and the sewer main is no longer under warranty, the responsibility to repair the defects shall rest on both the developer and the City as follows:

i. The developer shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer cleanout to the commercial or residential building (that portion of the sewer services that is considered "private").

ii. The City shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer cleanout to the sewer mainline (that portion of the sewer service that is considered "public").

3. Sewer stubs to residential and commercial subdivisions: Where sewer stubs have been constructed on sewer mains, these sewer stubs become an integral part of the sewer system of the proposed residential or commercial subdivision they were designed and built to serve. The developer of the subdivisions shall be required to test and repair these stubs, if found damaged, prior to tie-ins. A note to this effect shall be placed on all Building and improvement plans to ensure the developer is aware of this requirement prior to initiating construction.

21-9 MATERIALS

A. Approved Equal - The words "approved equal" shall mean any public works material deemed by the EUD or DSD to be acceptable for use within the City rights-of-way or property as compared to products of specified manufacturers. Contactors proposing to use materials which are not specifically named shall submit all necessary documentation to allow use of said material as an approved equal.

The submittal shall include a letter with:

1. **Product-** A description of the product and the appropriate materials specification section number.

2. **Contact-** The name and telephone number of the contact person for the proposed product.

3. **Reference-** A list of other agencies that are using the proposed product including names and telephone numbers.

   For water, sewer and reclaimed water related materials, address the letter to the EUD Engineering Division at 2005 Hilltop Circle, Roseville, CA 95747, ATTN: Senior Engineer. For streets and storm drain related materials, address the letter to 311 Vernon Street, Roseville, CA 95678, ATTN: Senior Engineer, Construction Management Section.

   The Contractor shall allow eight to ten weeks review time by the City staff.

B. Unapproved Materials - Materials not approved for use on the project shall be removed from the site within 24 hours if requested by the EUD/DSD inspector.

THIS PAGE INTENTIONALLY LEFT BLANK