

1 - GENERAL PROVISIONS

1.01 GENERAL

All infrastructure improvements that are subject to the review and approval authority of the City of Napa shall conform to the design criteria set forth in these City Standard Specifications, as well as the City Standard Plans (which are hereby incorporated by reference into these City Standard Specifications).

1.02 PLANS AND SPECIFICATIONS

All construction work shall be done in accordance with the Standard Specifications of the State of California Department of Transportation, latest edition, Standard Plans of the State of California Department of Transportation, latest edition, the City of Napa Standard Specifications, latest edition, and the City of Napa Standard Plans, latest edition. In case of conflict between the Standard Specifications of the State of California Department of Transportation or the Standard Plans of the State of California Department of Transportation and the City of Napa Standard Specifications or the City of Napa Standard Plans, the City of Napa Standard Specifications and the City of Napa Standard Plans shall take precedence over and be used in lieu of such conflicting portions.

1.03 PURPOSE AND DEFINITIONS

When in the Standard Specifications of the State of California Department of Transportation or the Standard Plans of the State of California Department of Transportation (Standard Specifications), or in any documents or instruments where the Standard Specifications govern, or in the City Standard Plans and City Standard Specifications the following terms or nouns are used, the intent and meaning shall be interpreted as follows:

Caltrans – California Department of Transportation.

City Engineer – The Director of Public Works of the City of Napa, California, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

City Manager – The person/s appointed to that position by the City Council.

City Standard Plans – The City of Napa Standard Specifications and Standard Plans, latest edition.

City Standard Specifications – The City of Napa Standard Specifications and Standard Plans, latest edition.

Contractor – The person or persons, firm, partnership, corporation, or combination thereof, private or public, who are performing construction work on private developments that are regulated by the City, or on City streets or other City-owned property.

Department or Department of Transportation – Department of Public Works of the City of Napa, California.

Developer – The person or persons, firm, partnership, corporation, or combination thereof, private or public, who are responsible for work performed on private developments that are regulated by the City, or on City streets or other City-owned property.

Director – Director of Public Works of the City of Napa, State of California, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Laboratory – The established laboratory authorized by the Engineer to test materials and work involved in the contract.

State or Owner – The City of Napa, California, a legal entity organized and existing in the County of Napa, State of California.

Standard Plans – The latest edition of the Standard Plans of the State of California, Department of Transportation. Any reference therein to the State of California or a State agency, Office, or officer shall be interpreted to refer to the City or its corresponding agency, office, or officer.

Standard Specifications – The latest edition of the Standard Specifications of the State of California, Department of Transportation. Any reference therein to the State of California or a State agency, Office, or officer shall be interpreted to refer to the City or its corresponding agency, office, or officer acting under this contract.

Transportation Building – Sacramento – City Hall, City of Napa, State of California.

Utilities Department – The City of Napa’s Water and Solid Waste Recycling Divisions. Utilities office located at 1700 Second Street, Suite 100.

Water Division Engineer – Engineer from the Utilities Department or properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Water Division Inspector – Inspector from the Utilities Department or properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Water Distribution System – The water system owned and operated by the City of Napa including, but not limited to, distribution pipelines, transmission pipelines, and all appurtenances.

1.04 CONSTRUCTION PLANS

Complete construction plans and specifications for all proposed and required improvements, including any necessary dedications and easements, shall be submitted to the City Engineer for review and approval and must be approved prior to the start of construction. The plans and specifications are to be prepared by a Registered Civil Engineer. Additional information may be required including, but not limited to, drainage calculations, geotechnical report, material tests, and right-of-way descriptions.

If alterations or revisions to the plans are required, they shall be properly designed and shown on the plans by the engineer. The plans shall not be considered approved until the City Engineer has signed the approval block on the plans. All construction shall be based on approved plans. There shall be no changes made to a set of approved plans unless such changes or additions are resubmitted to the City Engineer for approval.

In approving a set of plans the City Engineer is approving only those features that do not conflict with State Law, the Napa Municipal Code, these Standard Specifications, conditions of approval of the project, and accepted good engineering practice. It is the design engineer's responsibility to ensure that the plans meet all of the above criteria. The City Engineer is not obligated to review the plans before approval but does have the authority to do so. Errors, omissions or conflicts which may have been overlooked by the City during plan check are subject to correction and redesign by the design engineer at any time they are discovered prior to acceptance of the

completed work or release of bond by the City.

1.05 GENERAL CONSTRUCTION NOTES

The following notes are required on all plans for public improvements. Additional site-specific notes may be added as necessary.

City of Napa General Construction Notes

1. All workmanship and materials for both on-site and off-site improvements shall conform to the most recent edition of the City of Napa Public Works Department (Public Works) Standard Specifications and addendums, and/or the 2015 edition (or most recent) of the State of California (Caltrans) Standard Specifications, Standard Plans, and the geotechnical report and all the notes shown. The contractor shall have a copy of all documents available at the job site at all times. All on site improvements shall be inspected and certified by the Engineer of Record. Improvements in the public right of way shall be inspected by Public Works.
2. The developer/contractor shall contact the Construction Division at 707-257-9520 to schedule a preconstruction meeting prior to the commencement of any and all work. During the duration of the project, rolling 3-week lookahead schedules will be required to be submitted weekly.
3. The contractor and all subcontractors must call underground service alert (USA north 811 or 1-800-227-2600) prior to the start of any work on the project site. Each contractor shall submit a copy of their USA tag to the City for verification. The contractor shall also call any company or agency for service locations who are not a member of underground service alert. Contractor shall be responsible for the verification of all existing utilities in the field. Locations of utilities and underground facilities shown are approximate and for general information only. The contractor is responsible for removing USA markings after the completion of construction from the public right of way.
4. The developer/contractor shall coordinate all necessary utility inspections, scheduling and relocations with the appropriate utility companies.
5. All work shall be in accordance with the prevailing governing agency. For discrepancies between these plans and those agencies' regulations and Standard Plans, agency requirements shall prevail.
6. The developer/contractor shall provide a minimum of two – 24 hour a day emergency telephone numbers of the person(s) who can respond to the project.
7. All materials shall be furnished and installed by the developer/contractor unless otherwise noted on the plans.
8. Developer/contractor shall conform to existing streets, surrounding landscape and other improvements with a smooth transition in paving, curbs, gutters, sidewalks, grading, etc., and to avoid any abrupt or apparent changes in grades or cross slopes, low spots or hazardous conditions.

9. For all construction activities including but not limited to: grading, fencing, retaining walls, tree trimming, storm drainage, or any other type of work, that occur on adjacent property, the developer/contractor shall provide the City a right-of-entry/temporary construction easement signed by the owner of record of the affected/adjacent property prior to start of construction.
10. The contractor shall notify all customers of service interruptions 48 hours in advance with door hung notices. Interruption scheduling shall be authorized in writing by Water Division Engineer.
11. Construction activities throughout the entire duration of the project shall be limited to the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday. There shall be no startup of machines nor equipment prior to 8:00 a.m., Monday through Friday; no delivery of materials nor equipment prior to 7:30a.m. nor past 5:00p.m., Monday through Friday; no cleaning of machines nor equipment past 6:00 p.m., Monday through Friday; no servicing of equipment past 6:45 p.m., Monday through Friday; and construction on weekends or legal holidays shall be limited to the hours of 8:00 a.m. to 4:00 p.m., unless the contractor submits a written request and that request is approved by the City Manager, or their designee, pursuant to section 8.08.025 & 8.08.050 of the City Municipal Code. If the request to work outside of the designated hours is approved, the Contractor may be required to pay the cost of providing inspection services for the work being performed. If inspection services are not available for the requested change, the City Engineer may deny the request. The City Manager, or designee, shall grant such permit:
 - A. For emergency work;
 - B. Other work, if work and equipment will not create noise that may be unreasonably offensive to neighbors as to constitute a nuisance; or
 - C. If necessary to protect the public health, safety, and welfare.

All muffler systems on construction equipment shall be properly maintained. All construction equipment shall not be placed adjacent to developed areas unless said equipment is provided with acoustical shielding. All construction and grading equipment shall be shut down when not actively in use.

If an inspector is required to be onsite for work outside of the Monday through Friday work hours, the contractor shall request from the City, in writing, 72 hours prior to the work, for approval. If prior written notice is not provided, the request will be denied, and construction work may not be performed. Additional fees may be charged for work outside of the Monday through Friday work hours. The City reserves the right to deny all work outside of the Monday through Friday work hours.

Developer/contractors will be given one (1) warning for work starting prior to or after the work hours stated above. After the first warning is given, any violations of time will result in an automatic five (5) working day shutdown of the entire project.

No staging or deliveries in the public right of way unless approved per written request.

The City Engineer, Planning Commission or City Council may impose additional limitations on working hours and noise based on the special circumstances that may

be associated with a particular project. In which case, the more stringent limitations shall apply.

12. The Contractor shall be responsible for the protection of all existing survey monuments and control points. All monuments destroyed during construction shall be resurveyed and replaced by the contractor and at the contractor's expense as outlined in the business and professions code, section 8771.
13. The Contractor shall provide the City submittal(s) for all material to be installed within the public right of way on the project. Construction shall not start prior to submittals being approved. Prior to being submitted to the City, the designer of record shall review and approve such right of way submittal.
14. Site security, perimeter controls, and site safety are the responsibility of the developer/contractor and shall be installed and maintained during all phases of construction. Temporary 6ft chain link fencing with opaque screening shall be used for site security unless another method is submitted and approved for use by the City.

Project Acceptance Notes

1. Prior to project acceptance, the Engineer of Record, the Surveyor of Record, and the Geotechnical Engineer of Record shall submit an engineer's stamped certification letter to the City.
2. Prior to project acceptance all items on the deficiency list shall be corrected and signed off by all divisions.
3. Geotechnical Engineer of Record shall submit a final report and summary of tests of all testing and design changes prior to acceptance.
4. Prior to project acceptance, mylars and CAD files of accurate "record drawings" shall be submitted to the City, stamped and signed with the following:

Record Drawing

Date of completion: _____

Contractor: _____

Engineer: _____

Surveyor: _____

Geotechnical: _____

Engineer of Record
Stamped and signed by: _____

General Traffic Notes

1. All traffic control required for construction activities shall conform to the requirements of the latest edition of the California Manual on Uniform Traffic Control Devices (CA MUTCD). For full street closures, a written explanation detailing the need for full closure shall be accompanied with a traffic control plan and submitted to the City Engineer for review and approval. For all lane and sidewalk closures and detours, a traffic control plan shall be submitted to the City Engineer for review and approval at least ten working days before the scheduled closure. Construction will not be allowed to start prior to the approval of the traffic control plan.
2. All traffic control plans shall be a CAD drawing format plan with complete details and tables. Aerial photos, hand drawn plans, and notes are not acceptable.
3. Traffic control shall be per CA MUTCD, Section 6 (Section 5 is not allowed).
4. "NO PARKING" signs shall be placed 48 hours prior to the work to be completed within an area of designated public parking. No parking signs shall be filled in with all pertinent information of the exact time the work is to take place. Signs shall be clear as to when the public may park in the area outside of the construction time. If work is staged or delayed, then all "NO PARKING" signs shall be removed and new no parking signs shall be placed 48 hours prior to when work is ready to resume. Signs shall be placed approximately every 50 feet apart.
5. Pedestrian and bike access through and/or adjacent to the project site shall remain unobstructed during the project construction or an escort shall be established as approved by the City.
6. The contractor is required to maintain all traffic control equipment in-place during work activities and shall remove all traffic control that is not needed and return accessible travel for the public during non-work hours or days.

7. The City reserves the right to stop all work being performed for lack of traffic control or traffic control that is not per the approved traffic control plan.
8. The contractor is required to maintain all temporary pavement delineation until the permanent pavement delineation is placed. All permanent traffic striping shall be laid out and cat-tracked. The City shall have a minimum of ten working days to approve the striping layout and cat-tracking.
9. Traffic striping shall be thermoplastic with reflector unless otherwise specified.
10. Contrast striping shall be placed on all concrete roadway surfaces.
11. Prior to the street opening after HMA is placed, there shall be temporary paint, tape, or reflective markers placed per City Engineer's approval. Contractor to wait a minimum of 5 days and a maximum of 10 days after HMA is placed before permanent striping is placed.
12. Bike Lane legends shall be helmeted cyclist with arrow.
13. Green-backed dashed bike lanes shall be placed at Conflict Zones.
14. All median noses shall be painted to match the road striping leading to the nose.
15. Type Q markers shall be placed one foot (1') back from all median noses.
16. Median noses shall be signed at intersections and at the start of a median chain.
17. All traffic signs (excluding temporary construction signs) shall have 3M diamond cubed retro-reflective or equivalent base and 3M 1160 protective overlay film or equivalent.

Solid Waste and Recycling Notes

1. All plans for non-residential and/or multi-family development with common prescribed collection areas shall comply with the solid waste and recycling enclosure standards prescribed by City Council resolution R2008-185 or as it may be updated by subsequent council action. Current enclosure standards can be found at WWW.CITYOFNAPA.ORG/832/ENCLOSURE-STANDARDS-UPDATE.
2. During the construction & demolition period of the project, the contractor shall comply with all provisions of the City of Napa's Construction & Demolition Debris (C&DD) recycling ordinance contained in chapter 15.32 of Napa Municipal Code. The C&DD recycling ordinance requires site separation and recycling (or composting) for designated recyclable materials such as clean wood, concrete, metal, yard waste and other salvageable materials, and requires that all projects exceeding 5000 square feet or \$100,000 in project valuation achieve a minimum level of 50% diversion from landfill disposal. All qualifying project applicants must submit a waste reduction and recycling plan (WRRP) and have the WRRP approved by the City before a City building or demolition permit is issued. Also, the City will determine compliance or non-compliance with approved WRRP and City's C&DD ordinance before a certificate of occupancy or temporary certificate of occupancy is issued by the City. A City determination of non-compliance for a given project may result in a fine as prescribed in the City's C&DD ordinance. Details on the City's C&DD ordinance, including a frequently asked questions (FAQ) summary, can be found at WWW.CITYOFNAPA.ORG/709/CONSTRUCTION-AND-DEMOLITION-DEBRIS-RECYC.

Electrical Construction Notes

1. All City electrical & communications conduits installed, to include trenching, and conduit placement shall be inspected by the City of Napa Electrical Division prior to backfill, conduits shall be minimum 24-inches deep in the clear from finished grade.
2. 12mm wide, polyester fiber detectable pulling tape, with printed markings sequentially every foot, along with one, 22 awg detectable solid copper wire attached shall be required in all empty conduits.
3. Exact locations of all streetlight and traffic signal standards, pedestals and cabinets shall be determined by City of Napa Public Works/Electrical Division prior to installation. Signal and lighting standards shall be at least 3 feet from face of curb unless otherwise specified.
4. Pull boxes shall be placed in sidewalk areas or other locations to be determined by City of Napa Electrical Division. Pull boxes shall not be placed in driveway approaches, vehicle traffic lanes, or in sidewalk handicapped ramp areas.
5. All traffic signal heads shall be 12-inches and have a louvered backplate and tunnel visors.

6. All cobra head luminaires shall be supplied with a twist lock photocell receptacle unless otherwise specified.
7. Streetlight and traffic signal related equipment and components shall be per the 2015 Caltrans Standard Specifications unless otherwise noted on the improvement plans which will also list equipment and components specific to City of Napa standards.
8. All lighting, to include traffic signal heads and streetlights shall be L.E.D. as approved by the City.
9. All materials required to be removed & salvaged, shall be delivered to City of Napa Corporation Yard at 770 Jackson Street without damage.
10. Contact City of Napa Electrical Division at 707-257-9588, 48 hrs in advance for all inspections and/or delivery of equipment.

Street Section and Sidewalk Construction Notes

1. Areas to be developed shall be cleared of vegetation, trees, tree roots, debris and any remnants of foundations or abandoned utilities. The area shall be stripped of the upper soils containing organic matter. All contaminated material shall be disposed of according to the guidelines of the Environmental Protection Agency (EPA).
2. All Class II aggregate base shall be sampled and tested for sieve analysis, r-value, sand equivalent and maximum density within 10 days of submitting the submittal to the City Engineer for approval. The City shall receive the submittal a minimum of five working days prior to scheduled use.
3. Job mix formula (JMF) for all hot mix asphalt (HMA) to be used (except for miscellaneous areas and dikes) shall be submitted to the City Engineer for approval. The JMF documents the testing data developed by the mix design laboratory and shall be submitted on Caltrans form CEM-3152 and dated within 12 months of planned pavement work. Hot mix asphalt shall be sampled and tested in accordance with Caltrans Construction Manual, Chapter 4 'Construction Details' 4-3930D (5) 'Sampling and Testing Hot Mix Asphalt'. Obtain split samples of HMA from the mat behind the paver or other location approved by the Inspector.
4. All trench backfill shall be tested per ASTM D1557 by the geotechnical engineer for compaction. If the trench backfill is more than 12-inches deep, compaction testing shall be completed as each lift of fill is placed and compacted. Each lift of material shall not exceed 12-inches in depth. Prior to paving, all trenches shall be tested, and all test results shall be submitted to the City. All test results, both passing and failing shall be shown and provided to the City. The City reserves the right to request additional field testing to be performed.
5. The subgrade shall be scarified, processed and compacted to a minimum of 95% relative compaction per ASTM D1557/ASTM D6938, and shall be firm and unyielding. Proof-rolling of the finished subgrade shall be performed by the contractor using a fully loaded 3-axle water truck and reviewed and approved by the City Inspector prior to placement of additional materials. Proof-rolling shall be observed by the

contractor's licensed geotechnical engineer and the City Inspector. The developer's/contractor's licensed geotechnical engineer shall provide in writing an appropriate method to stabilize the areas of deflection. Attention is directed to City Standard Specification Section 1.10.10, "Earthwork" for "Yielding Subgrade" approval. All compactions shall be tested with a nuclear gage.

6. The Class II aggregate base structural section shall be moisture conditioned and compacted to a minimum of 95% relative compaction per ASTM D1557/ASTM D6938 and shall be firm and unyielding. Proof-rolling of the finished aggregate section shall be performed by the contractor using a fully loaded 3-axle water truck and reviewed and approved by the City Inspector prior to placement of asphalt concrete. Proof-rolling shall be observed by the contractor's licensed geotechnical engineer and the City Inspector. The developer's/contractor's licensed geotechnical engineer shall provide in writing an appropriate method to stabilize the areas of deflection. All aggregate base compaction shall be tested with a nuclear gage.
7. HMA shall be tested for compaction per Caltrans Cal 375 test, minimum 95% compaction required.
8. The project shall comply with the geotechnical report recommendations and the approved plans. The geotechnical report shall be onsite and available to reference.
9. The improvement plans shall show an appropriate 'Pavement Design Chart' with columns for street names; stationing limits for different pavement sections, if used; traffic index; 'R'-Value; AC thickness; AB thickness; and AS thickness (if used); etc. The street names and station limits shall be shown with the traffic index, which shall be subject to the city's approval. The 'R'- Value and section thickness shall be left blank. A note shall state that the thicknesses will be entered after 'R'-Value testing. The street structural section shall be determined by the registered geotechnical engineer of record and shall be shown in the "Pavement Design Chart" on the approved improvement plans. The improvement plans sheet on which the competed pavement design chart appears shall be submitted to the city as an official, dated, clouded revision, and the work shall not be performed until the city has approved the revision.
10. Street restoration limits on existing street pavement whenever a street is cut (either by a longitudinal or transverse cut) for utility or other improvement installations, regardless of limits of overlay shown on the improvement plans, shall be per the City's Pavement Restoration Limits Table. The resurfacing shall extend a sufficient distance beyond any cut to ensure a smooth transition and shall consist of a full 2-inch-deep grind for the entire area and a 2-inch asphalt concrete overlay. Street resurfacing will be required for all cuts resulting from improvements that include but are not limited to pavement widening, curb and gutter, storm drain, water, sewer, signal, lighting, and other utilities for the project. The limits of the overlay may be extended beyond the project frontage of the parcel and/or 10 feet on either side of the trench to cover all the utility trench cuts at the discretion of the City after all underground infrastructure has been installed.

11. All manhole and boxes shall be lowered prior to performing any street grinding and overlay.
12. All manholes and boxes shall be raised to grade after all paving is completed. The asphalt concrete shall be circle cut to full depth of the asphalt concrete for all manholes and boxes. Jack hammering asphalt to raise iron will not be allowed. Use of sack mix shall not be allowed.
13. All new concrete shall be doweled to existing concrete; minimum 18-inches spacing on sidewalk and 24-inches spacing on curb and gutter; with #4 rebar embedded 6-inches deep. If concrete is placed in sections or phases, the new concrete shall be doweled together.
14. Any PCC curb placed on top of existing or new asphalt concrete shall be epoxy-dowelled on 4 feet centers and glued down to the surface.
15. Any concrete placed that becomes tagged, defaced, cracked or damaged shall be replaced prior to project acceptance. Spot patching repairs of concrete is not allowed. Any permanent reference point marks made into concrete is not allowed. If done, entire section of concrete from joint to joint shall be removed and replaced.
16. All survey monument(s) shall be installed prior to final sign-off of the project as shown on the improvement plans or final map.

Landscape, Irrigation and Tree Notes

1. All trees within the public right-of-way must be protected from construction damage. A tree protection plan for said protection must be submitted and approved by the City via authorized signature, before work begins. Plans shall incorporate ANSI A300 (part 5) – 2012 Best Practices as well as companion publication: Managing Trees During Construction, second edition. It is recommended a professional arborist be retained for this purpose. Monitoring of plans pre-construction, during construction and post construction phases is necessary.
2. Prior to any other site work, protective fencing shall be installed a minimum of one foot beyond the canopy drip line of any tree to be saved. The fence should be sturdy, highly visible and solidly anchored to the ground. The fencing shall remain in place continuously during all phases of construction. This tree protection zone (TPZ) shall be posted with warning signs in English and Spanish to alert equipment operators and contractors about the protected status of the TPZ. Signs should contain contact information for the contractor.
3. Activities within the TPZ that compact the soil or physically damage the tree shall be avoided or mitigated.
4. Removal or pruning of any protected native tree, significant tree or tree within the public right-of-way requires a permit from the City of Napa Parks and Recreation Services Department unless it is approved via authorized signature on the development plans. Trees removed shall be completely removed and cut to grade.

Trees to be removed shall be posted 3 days prior indicating that it will be removed, and the removal has been approved as part of an approved development project.

5. Street trees shall be planted within the street right-of-way per City Standard Plan T-1, T-2, T-4, and T-5 at developer's expense. Any street tree spacing shown on the plan is approximate. Contractor shall contact the City's Parks and Recreation Services Department 707-257-9529, after all driveways and utilities are installed. City tree division staff shall mark locations of trees required. A list of tree varieties approved for planting is available at the Parks and Recreation Services Department Office or on the City website.

Stormwater Notes

1. Contractor shall meet the requirements of discharging to a public storm drainage system as required to ensure compliance by the City with all state and federal laws and regulations related to storm water as stipulated in the Clean Water Act. Contractor shall meet the requirements of the National Pollutant Discharge Elimination System (NPDES) permit in effect prior to completion of project construction for storm water discharges from the Municipal Stormwater System operated by the City of Napa. Contractor shall comply with the Stormwater Pollution Prevention Plan (SWPPP) (project > 1 acre) and/or Erosion and Sediment Control Plan (ESCP) (projects <1 acre) and the Stormwater Control Plan (SCP) submitted by developer as part of its application as (modified and) approved by the director of Public Works or City Engineer.

Storm Drainage Notes

1. All storm drains within the City right of way shall be designed using rubber gasket reinforced concrete pipe (RCP). All RCP shall be Class III, unless the depth of the pipe requires a stronger pipe.
2. All connections made to intersecting storm drain lines shall be made at a manhole or drain inlet. Direct connections to storm drain lines are not allowed.
3. If, by special design, plastic pipe is approved for installation of storm drainage systems, water stops shall be installed.
4. Storm drain lines shall not be installed exceeding the maximum deflection of each joint. In no case, shall the rubber gaskets be exposed. If the deflection exceeds the allowable limit per the pipe manufacture, a manhole or junction box must be installed.
5. A 60-inch manhole shall be used for all storm drain lines larger than 24-inches or where more than two storm drain pipes enter the manhole.
6. All storm drain systems shall be videotaped at the completion of subgrade or prior to placement of HMA.
7. Provide stormwater conveyance system stenciling and signage for both private development and public right of way.

- A. Provide concrete stamping, or equivalent, of all stormwater conveyance system inlets and catch basins within the project area with prohibitive language (e.g. “no dumping drains to Napa River”).
- B. Post signs and prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks with the project area, trailheads, parks, building entrances, and bioretention facilities.

Fire Department Notes

1. The City of Napa Fire Department requires that a fire hydrant be in service within 250 feet of the furthest point of construction prior to the stockpiling of combustible materials or the beginning of construction.
2. If the streets or access roads in a development are not paved from October 15th through April 15th, the City requires that a temporary all access weather access road be provided.
3. In accordance with the City of Napa Standard Specifications and Standard Plans, Section 3.04.02 “Fire Access Requirements (for Building Construction)” temporary all weather construction phase Fire Department access route structural sections shall consist of a minimum of 12-inches of base rock material over either: (1) a lime treated subgrade, or (2) a subgrade covered with fabric in accordance with the following design criteria:
 - A. Subgrade is defined as the native soil at the bottom of the access route structural section, excavated to the lines and grades shown on the project grading plan, and provided with a discharge for the collected storm water runoff, as approved by the City Engineer.
 - B. Base rock shall be Class II aggregate base compacted to at least 95% relative compaction.
 - C. Base rock shall be placed only on a firm and unyielding (compacted to at least 95% relative compaction) excavated and drained subgrade.
 - D. Lime treated subgrades shall be designed in accordance with the recommendations of a geotechnical engineer and compacted to at least 95% relative compaction.
 - E. Fabric shall be a ground stabilization fabric such as Mirafi 600X or equivalent.
 - F. Fire Department access shall be a minimum 20 feet in width and provided so that a 150-foot length of hose can be extended from the parked fire vehicle to all points along the exterior perimeter of all structures.
 - G. Alternate all weather access road sections may be proposed by a geotechnical engineer and submitted to the Public Works director for approval. Approval of the Public Works director and fire marshal is required for alternate all weather access roads.

Sewer Notes

1. All sanitary sewer improvements shall be constructed per the current version of Napa Sanitation Districts (NSD) sanitary sewer and recycled water standards.

Water Notes

1. Construction details: Refer to City of Napa Standard Specifications and Plans.
2. Water-sewer separation: Water-sewer (or water-recycled water) separation shall comply with all State Water Resources Control Board requirements. Parallel construction: 10 feet of horizontal separation. Perpendicular construction: water mains at least 1 foot above sewer and recycled water lines.
3. Existing water facilities: Contractor shall locate by excavation all existing water facilities prior to any construction activities. If conflicts arise, an alternate design must be submitted to the City for approval.
4. Obstructions: Trees, foundations, or other permanent structures shall not be installed within 10 feet of any water facility. No obstructions (signpost, mailbox, wall, fence, etc.) shall be installed within 3 feet of any water facility. See Standard Plan W-18 for additional requirements.
5. Construction water: Water supplied from the City of Napa system shall be taken through a metered service or fire hydrant meter. Fire hydrant meters shall be obtained by applying at the revenue/collections division in City Hall at 955 School Street, Napa, (707-257-9508). A form is available online at: www.cityofnapa.com/newdevelopment under the section, Construction Water/ Hydrant Meters.
6. Inspection: Public water facilities up to and including the water meter shall be inspected by the Water Division Inspector (contact 707-257-9521 to schedule inspection). All water facilities between the water meter up to and including the backflow device shall be inspected by the Water Division Backflow Prevention Specialist (contact 707-257-9544 to schedule inspection). All new water facilities shall be tested and inspected prior to activation.
7. Water service interruption: Contractor shall be responsible for notifying affected water customers a minimum of 48 hours (2 business days) in advance. All valves shall be operated by City personnel. Contractor shall schedule all water service interruptions by calling 707-257-9544.
8. Joint deflection: Maximum deflection at pipe joints shall not exceed 3° with a maximum offset of 10-inches per 18-foot length (minimum radius = 345 feet) or as set forth by manufacturer specifications or installation procedures.
9. Corrosion protection: Ductile iron pipe shall be cathodically protected in accordance with the City of Napa Standard Specifications, Plans and the City of Napa's water distribution system provisions. All bolts, studs washers, nuts, etc., shall be stainless steel minimum grade 304SS with teflon coated nuts or City approved equal.

10. Valves: Valves shall be installed as shown in the approved plans and comply with City of Napa Standard Plan W-9. All water service valves shall be placed immediately after the tee or hot tap.
11. Fire hydrants: Fire hydrant installations shall comply with City of Napa Standard Plan W-8. Fire hydrant(s) not in service shall be completely covered.
12. Services: Water service installations shall comply with applicable City of Napa Standard Plans. Fire service meters shall be installed on all fire services with private fire hydrants. All hot-taps to existing mains shall be conducted by the City at the contractor's expense. A water system shutdown shall be required in all cases where the proposed water service is the same size as the existing pipeline supplying the proposed water service(s).
13. Backflow devices: Backflow prevention devices shall be installed on all new services and comply with City of Napa Standard Plans W-5 (A, B, C, & D) and W-7 (A, B, C & D). Approved backflow prevention devices shall be installed and tested, and water meters (if applicable) shall be set, prior to any use of water service. Water meters (if applicable) shall be installed in the locked position until passing test results are received by the City of Napa. Use of jumpers, hose bibs, or other devices shall not be permitted.
14. Backfill: Water main trench backfill shall comply with City of Napa Standard Plan W-13A.
15. Tie-ins: New tie-ins to existing City water mains shall be conducted under City inspection only after pressure testing, chlorination, and bacteriological testing is complete. All hot-taps to existing mains shall be conducted by the City at the contractor's expense. Water system cut-in connections shall be performed by the contractor under Water Division supervision. Valves are to be operated by city staff only. A water system shutdown shall be required in all cases where new pipeline tie-ins are the same size or greater (i.e. size-on-size).
16. Meter installation(s) and water service activation: Meter installation(s) shall occur upon receipt of the parcel address(es) and responsible billing party. All pressurized services shall be considered active and billable.
17. Pressure: Contractor shall install pressure regulators on all water service connections (property owner's side) where pressures exceed 80 pounds per square inch (psi).
18. Documentation and record drawing: All new water system installations shall be GPS surveyed within 5 business days of installation and before backfill. Contractor shall schedule all surveys by calling (707) 257-9521. Record drawings shall be submitted within 20 business days after water system activation.

1.06 AGREEMENTS AND BONDS

The Developer shall enter into an agreement with the City for constructing on-site and off-site improvements, in accordance with approved plans and profiles. The agreement shall be secured by a faithful performance bond or cash deposit in an amount equal to one hundred percent (100%) of the contract price, and a bond to guarantee payment of all claims for labor and material furnished, in an amount equal to fifty percent (50%) of the contract price. Agreement bonds shall

be on the City of Napa forms available at the Public Works Department, or on a substantially similar form as approved by the City Attorney.

In conjunction with the submittal of bonds, the Developer shall furnish the following information: (a) the original, or a certified copy, of the unrevoked appointment, power of attorney, bylaws, or other instrument entitling or authorizing the person who executed the bonds to do so; (b) a certified copy of the certificate of authority of the insurer issued by the Insurance Commissioner of the State of California; and (c) a certificate pursuant to CCP 995.640(a) from the clerk of Napa County that the certificate of authority of the insurer has not been surrendered, revoked, canceled, annulled, or suspended, or, in the event that it has, that renewed authority has been granted.

The agreement shall specify that the proposed improvements will be completed within a certain time limit and if the proposed improvements are not satisfactorily completed within the time limit, the City shall complete the improvements and the faithful performance or cash bond shall be forfeited.

The final acceptance of the work will be contingent upon your guaranty which may be either an extension of the original Faithful Performance Bond or a separate Maintenance Bond in the amount of ten percent (10%) of the final Contract price in favor of the City. Should you not file said bond as required herein, the City may retain the remaining five percent (5%) of the final Contract price as a cash bond for said one (1) year period.

1.07 CONTROL OF WORK

1.07.01 SANITATION FACILITIES

The Contractor shall conform to the requirements of Section 13.16.070 of the Napa Municipal Code, requiring the maintenance of not less than one chemical toilet, approved by the Health Officer, on the premises, for each twenty (20) employees or fractional part thereof working at a construction job site, unless specifically exempt from this requirement by the City Engineer. Alternate sanitary facilities if suitably located and adequately available may be substituted for the facilities required by Section 13.16.070, subject to approval of the City Engineer.

1.07.02 CLEANLINESS OF STREET

Attention is directed to Section 12.16.100 of the Napa Municipal Code which reads:

Vehicles Spilling Loads: It is unlawful for any person to use any vehicle for the conveyance or removal of dirt, gravel, rock or other material without having the same so constructed and loaded as to prevent contents thereof from being scattered or deposited upon the streets over which said vehicles may be driven.

The Contractor may be directed by the City Engineer to use commercial street-sweepers for cleanliness of streets and frequency.

1.07.03 PROJECT APPEARANCE

The Contractor shall maintain a neat appearance of work. In areas visible to the public, the following shall apply:

1. When practicable, broken concrete and debris developed during clearing and grubbing shall be disposed of concurrently with its removal. If stockpiling is necessary, a written

request shall be provided by the Contractor or Developer to the City and the material shall be removed or disposed of within a time frame approved by the City Engineer.

2. Contractor shall furnish trash bins for debris from structure construction. Debris shall be placed in trash bins daily. Contractor shall secure City's approval of trash bin location prior to placement of trash bins. The City does not guarantee that a trash bin can be located within the project limits.
3. Forms or falsework that are to be re-used shall be stacked neatly concurrently with their removal. Forms and falsework that are not to be re-used shall be disposed of concurrently with their removal.

1.07.04 AREAS FOR CONTRACTOR USE

Attention is directed to Section 5-1.32, "Areas of Use," of the Standard Specifications and these City Standard Specifications.

Overnight storage and staging of materials within the right of way will not be allowed unless approved in writing by the City Engineer. Any staging areas used by the Contractor shall be subject to the provisions of "Water Pollution Control", of these City Standard Specifications. Use of the Contractor's staging areas shall be at the Contractor's own risk and the City shall not be held liable for any damage or loss of materials or equipment located within such areas.

The highway right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

Temporary storage of equipment and materials on the parcels adjacent to the right of way will be subject to the approval of the City Engineer on a parcel-by-parcel basis. The Contractor shall fence each of the parcels approved for construction use with 6' high temporary chain link fencing completely covered with opaque black mesh screening. The Contractor shall maintain the fencing continuously. Use of the Contractor's work areas and other City-owned property shall be at the Contractor's own risk, and the City shall not be held liable for any damage to or loss of materials or equipment located within such areas.

1.07.05 WORK SAFETY

The Contractor shall assume sole and complete responsibility for job site conditions for the duration of the project including, but not limited to, the safety and health conditions on the work site. This requirement shall apply continuously and shall not be limited to normal working hours. Contractor shall comply with all applicable provisions of law including the standards, rules, regulations and orders established by the California Division of Industrial Safety. Contractor shall furnish and use safety devices and safeguards and shall adopt and use practices, means, methods, operations, and processes which are reasonably adequate to render the work site safe and healthful. Contractor shall take all steps necessary to ensure that any hazardous condition is corrected promptly either by the Contractor or by assigning such responsibility to the appropriate subcontractor and ensuring that the corrections are completed. The City, design engineer, construction manager and the officers, agents or employees, shall not have charge of or responsibility for construction or safety means, methods, techniques, procedures, as these are solely the responsibility of Contractor.

1.07.06 CONFINED SPACES

For any work that is to take place in a confined space, the Contractor shall comply with all CAL/OSHA regulations concerning entry into confined spaces. Confined space for the purpose of this Article shall mean the interior of storm drains, sewers, vaults, utility pipelines, manholes, reservoirs, and any other such structure which is similarly surrounded by confining surfaces so as to permit the accumulation of dangerous gases or vapors.

Tests for the presence of combustible or dangerous gases shall be made with an approved device immediately prior to a worker entering a confined space and at intervals frequent enough to ensure a safe atmosphere during the time a worker is in such a structure. A record of such tests shall be kept at the job site.

Sources of ignition, including smoking, shall be prohibited in any confined space until after the atmosphere within the confined space has been tested and found safe.

No employee shall be permitted to enter or remain within a confined space until such confined space is free of concentrations of harmful gases, and lack of oxygen, unless the employee is wearing suitable and approved respiratory equipment.

Confined spaces that contain or that have last been used as containers of toxic gases, light oils, hydrogen sulfide, corrosives, or poisonous substances, shall, in every case, be tested by means of approved devices or chemical analysis before being entered without wearing approved respiratory equipment.

Reservoirs, vessels, or other confined spaces having openings or manholes in the side as well as in the top shall be entered from the side openings or manholes when practicable.

1.07.07 RECORD DRAWINGS

Using colored ink, the Contractor shall make changes on a set of clean prints of the project plans and submit to the City Engineer for review. Indicate all changes and revisions to the original design that affect the permanent structures/facilities. Reference underground utilities to semi-permanent or permanent physical objects. Reference water, sewer, telephone, and electrical lines to corners of buildings and survey markers.

Prior to acceptance of the work, based on the Contractor's record drawings described above, the Developer shall submit to the City Engineer one (1) set of printed As-Built drawings and one (1) set of As-Built Drawings in an electronic format approved by the City Engineer.

1.07.08 SOUND CONTROL REQUIREMENTS

Sound control shall conform to the provisions in Section 14-8, "Noise and Vibration," of the Standard Specifications and these City Standard Specifications.

The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 dBA at a distance of 50 feet. This requirement shall not relieve the Contractor from responsibility for complying with local ordinances regulating noise level.

The noise level requirement shall apply to the equipment on the job or related to the job, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

1.08 CONTROL OF MATERIALS

1.08.01 DISPOSAL OF MATERIAL

Disposal of material shall conform to Section 5-1.20B(4) "Contractor-Property Owner Agreement" of the Standard Specifications and these City Standard Specifications.

The Contractor shall make arrangements for disposing of materials outside the street right-of-way. Disposable material shall not be stockpiled in the street beyond the normal working hours. Material shall not be disposed of in any of the following areas:

1. Within the floodway of the City of Napa or the County of Napa.
2. Within the normal channel of any river, creek, stream, ditch, canal, swale or other water course and within the portions of the adjacent flood plain of same as are required to efficiently carry the flood flow, as determined by the Engineer.

Prior to any disposal of material, the Contractor shall obtain written permission from the owner of the proposed disposal site and provide a copy of said written permission to the City.

Whenever any material disposal location is visible from a public street, the disposal area shall be left in a neat and uniform manner to the satisfaction of the Engineer.

If the disposal site is within the City of Napa city limits, Contractor shall submit to the Engineer an approved grading permit and plan prior to disposing of the material. Grading permits are issued by the City of Napa, Building Inspection Division.

If the disposal site is located outside of the city limits, a grading permit from the affected agency as well as written permission from the owner of the disposal site shall be provided to the Public Works Department prior to commencement of the work.

1.08.02 COMPACTION AND TESTING

Attention is directed to Section 6-2, "Quality Assurance", of the Standard Specifications. Compaction of all earthwork materials shall be in accordance with Section 19-5, "Compaction," of the Standard Specifications and these City Standard Specifications.

A geotechnical firm shall be employed by Developers to observe the grading, trench backfill, and placement of aggregate base. A sufficient number of compaction tests shall be performed to ensure that the subgrade, trench backfill, aggregate base rock and asphalt concrete is installed and compacted in accordance with City Specifications. A summary report of the work performed, and the test results shall be submitted to the City. Proof roll to be accepted by the Engineer confirming firm and unyielding soils/materials.

If accepted aggregate base becomes saturated and/or disturbed, the subgrade must again be proof-rolled and testing soils and AB may be required.

All tests shall be per ASTM D1557 methodology. AC density testing per California Test 375 as required by the latest version of the Caltrans Standard Specifications, 95% minimum compaction.

1.08.03 INSPECTION AND ACCEPTANCE OF WORK

The City Engineer, or a duly authorized representative, shall at all times have access to the work during its construction. All completed work, and all materials furnished within the public

right-of-way shall be subject to inspection and approval by the City Engineer, or a duly authorized representative. Work and materials not meeting the requirements of the approved plans and specifications shall be made good, and unsuitable work or materials may be rejected. All work which has been rejected shall be remedied or removed and replaced in an acceptable manner. When the work has been completed, the City Engineer will make a final inspection.

All work performed outside of an existing or future public right-of-way shall be inspected and certified by the Engineer of Record that all work completed meets the requirements of the approved plans and specifications.

The Public Works Department is responsible for the overall coordination of the inspection process and is the primary inspector for certain portions of private developments. The Parks and Recreation Department is responsible for inspecting landscaping and irrigation projects that will be maintained by the City. The Community Development Department, Planning Division is responsible for inspecting landscaping and irrigation projects that will be maintained by private property owners and homeowners or similar associations.

When the City has made the final inspection and determined that the work has been completed in all respects in accordance with the plans and specifications, and the Engineer of Record has certified that all work under their review has been completed in all respects and in accordance with the plans and specifications, the City Engineer will formally accept the improvements. The Developer (for private projects) or the contractor (for City of Napa capital improvement projects) shall then guarantee all materials and workmanship against defects for a period of one year from the date of final acceptance of all work performed.

1.09 LEGAL RELATIONSHIPS AND RESPONSIBILITIES

1.09.01 INSURANCE

Section 7-1.06 "Insurance" of the Standard Specifications is amended to read as follows:

The Developer shall provide and or maintain insurance in accordance with the most current requirements of the City of Napa Risk Manager.

1.09.02 INDEMNIFICATION

Section 7-1.05 "Indemnification" of the Standard Specifications is amended to read as follows:

Hold Harmless: *The Developer shall be solely responsible and save City harmless for all matters relating to the payment of Developer employees and agents, including compliance with social security, withholding and all other regulations governing such matters.*

Indemnification: *Developer hereby warrants that the design and construction of required improvements will not adversely affect any portion of adjacent properties and that all work will be performed in a proper manner and in accordance with all applicable laws and regulations. To the full extent permitted by law, Developer agrees to indemnify, defend, release and save harmless City, its officers and employees from and against any and all claims, suits, liabilities, actions, damages, penalties or causes of actions by any person including Developer, owner, their employees and agents for (a) any personal injury, death, or damage to property from any cause whatsoever in whole or in part arising out of or in connection with this Agreement or the actions and obligations hereunder or approval of Developer's project, and (b) any failure to comply with all applicable laws and regulations,*

including, without limitations, any requirement regarding payment of prevailing wages. This indemnification shall extend, without limitation, to injuries to persons and damages or taking of property resulting from the design or construction of the subdivision or its improvements and to adjacent property owners as a consequence of diversion of waters or design or construction of public drainage systems, streets or other public projects. Developer shall so indemnify City regardless of City's passive negligence, City's approval of plans or City's inspection, approval or acceptance of the improvements and notwithstanding any limitation on the amount or type of damages or compensation payable by or for Developer under Workers' Compensation, disability, or other employee benefit acts, the acceptance of insurance certificates required under this Agreement, or the terms, applicability, or limitations of any insurance held by Developer. The provisions of this paragraph shall continue to bind the parties after acceptance/approval of the works of improvement by City and release of all security.

1.09.03 PUBLIC SAFETY

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.04, "Public Safety," of the Standard Specifications and these City Standard Specifications.

The Contractor shall install temporary railing (Type K) or water barrier between a lane open to public traffic and an excavation, obstacle or storage area when the following conditions exist:

A. Excavations

The near edge of the excavation is fifteen (15) feet or less from the edge of the lane, except:

1. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
2. Excavations less than one (1) foot deep.
3. Trenches less than one (1) foot wide for irrigation pipe or electrical conduit, or excavations less than one foot in diameter.
4. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
5. Excavations in side slopes, where the slope is flatter than 1:4 (vertical : horizontal).
6. Excavations protected by existing barrier or railing.

B. Temporarily Unprotected Permanent Obstacles

The work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the City Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.

C. Storage Areas

Material or equipment is stored within 15 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these City Standard Specifications.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this section "Public Safety" and in Section 7-1.04, "Public Safety," of the Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than one foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15-foot minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Temporary railing (Type K) shall conform to the provisions in Section 12-3, "Temporary Traffic Control Devices," of the Standard Specifications. Temporary railing (Type K), conforming to the details shown on Standard Plan T3A and T3B, may be used.

Temporary crash cushion modules shall conform to the provisions in Section 12-3.22 "Temporary Crash Cushion Module" of the Standard Specifications.

Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane:

Approach Speed of Public Traffic {Posted Limit}	Work Areas
Over 45 Miles Per Hour	Within 6 feet of a traffic lane
35 to 45 Miles Per Hour	Within 3 feet of a traffic lane

The lane closure provisions of this section shall not apply if the work area is protected by permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the City Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

1.09.04 PRESERVATION OF PROPERTY

Attention is directed to Section 5-1.36, "Property and Facility Preservation," of the Standard Specifications and these City Standard Specifications.

D. Plants

Existing trees, plants, shrubs, lawns, other landscaping, irrigation equipment, and other private property that are not shown on the plans as to be removed and are injured or damaged by reason of the Contractor's operations, shall be replaced by the Contractor. The minimum size of tree replacement shall be 24-inch box and the minimum size of shrub replacement shall be 15-gallon container. Replacement ground cover plants shall be from flats and shall be planted 12 inches on center. Replacement of Carpobrotus ground cover plants shall be from cuttings and shall be planted 12 inches on center. Replacement planting shall conform to the requirements in Section 20-3.01C(4), "Replacement Plants," of the Standard Specifications. The Contractor shall water replacement plants in conformance with the provisions in Section 20-3.01C(3), "Watering," of the Standard Specifications.

Damaged or injured plants shall be removed and disposed of outside the highway right of way in conformance with the provisions in Section 20-3.01C(4), "Replacement Plants," of the Standard Specifications. At the option of the Contractor, removed trees and shrubs may be reduced to chips.

Replacement planting of injured or damaged trees, shrubs and other plants shall be completed prior to acceptance of the work and shall conform to the provisions in Section 20-3.02, "Planting Plants," of the Standard Specifications.

E. Monuments

The Contractor shall be responsible for the protection of all existing survey monuments and control points. All monuments destroyed during construction shall be resurveyed and replaced at the Contractor's expense as outlined in the Business and Professions Code, Section 8771.

In the event the Contractor's operations destroy any of the Engineer's survey control points, the Contractor shall replace such control points at their expense, subject to verification by the City Engineer. The cost of any such verification of the Engineer's survey control points will be deducted from any moneys due or to become due the Contractor.

1.09.05 PERMITS AND LICENSES

Attention is directed to Section 5-1.20B "Permits, Licenses, Agreements and Certification" of the Standard Specifications and these City Standard Specifications.

The Contractor shall provide any and all licenses and permits required by the Work. The Contractor shall abide by any and all Federal, State, County and City Laws and Rules affecting the work and shall maintain all required protection for property, employees and the public and insurance in connection with same, for all of which the Contractor shall bear necessary expense.

1.09.06 WORKING DAYS AND HOURS OF WORK

Attention is directed to Section 8-1.05 "Time" of the Standard Specifications.

Section 1-1.07 "Definitions" of the Standard Specifications defines a working day. Construction activities throughout the entire duration of the project shall be limited to the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday. There shall be no startup of machines nor equipment prior to 8:00 a.m., Monday through Friday; no delivery of materials nor equipment

prior to 7:30 a.m. nor past 5:00 p.m., Monday through Friday; no cleaning of machines nor equipment past 6:00 p.m., Monday through Friday; no servicing of equipment past 6:45 p.m., Monday through Friday; and construction on weekends or legal holidays shall be limited to the hours of 8:00 a.m. to 4:00 p.m., unless the contractor submits a written request and that request is approved by the City Manager, or their designee, pursuant to section 8.08.025 & 8.08.050 of the City Municipal Code. If the request to work outside of the designated hours is approved, the Contractor may be required to pay the cost of providing inspection services for the work being performed. If inspection services are not available for the requested change, the City Engineer may deny the request.

All muffler systems on construction equipment shall be properly maintained.

All construction equipment shall not be placed adjacent to developed areas unless said equipment is provided with acoustical shielding

All construction and grading equipment shall be shut down when not actively in use.

The City Engineer, Planning Commission or City Council may impose additional limitations on working hours and noise based on the special circumstances that may be associated with a particular project. In which case, the more stringent limitations shall apply.

1.09.07 FLOOD EVACUATION

Contractor shall be prepared to evacuate the construction site during a Flood Watch issued by the National Weather Service. The Contractor shall, upon 10 hours notification by the City Engineer that the National Weather Service has issued a Flood Warning for the Napa River or Napa Creek, evacuate the construction site. Evacuation shall include removal of all vehicles, equipment, tools, materials, personnel, stockpiled material (including earthwork), trash, etc. Removal shall mean relocation to an area outside the limits of the flood plain, or to an onsite area acceptable to the City Engineer, if such an area exists above expected flood elevations. Bridge falsework and constructed permanent improvements only may remain in place. In no event shall the Contractor allow any manmade object or substance to enter or contaminate the floodwaters.

The Contractor shall conduct such a flood evacuation whenever so notified by the City Engineer, and as many times as requested prior to final acceptance of the project.

1.10 CONSTRUCTION DETAILS

1.10.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 4, "Scope of Work," and Section 5 "Control of Work" of the Standard Specifications and these City Standard Specifications.

Prior to beginning any excavation, the Contractor shall pothole all buried utilities and other man-made objects throughout the proposed area of work, check for conflicts, and provide the pothole data and written notice of any suspected conflicts between existing and proposed facilities to the City Engineer. Said pothole data and written notice shall be provided not less than fourteen (14) days prior to beginning any such excavation. For longer facilities such as buried pipelines, the Contractor shall pothole at an adequate number of locations, as approved by the City Engineer, to determine or verify the type, profile, size, and material of the facility.

Prior to saw cutting of existing curb, gutter, sidewalk, and/or driveway for removal and up to the time the new improvements are opened to the public, the Contractor shall erect and

maintain necessary signs and barricades as required in the sections titled “Maintaining Traffic” and “Public Safety,” of these City Standard Specifications.

1.10.02 WATER POLLUTION CONTROL

Water pollution control work shall conform to the provisions in the Napa Municipal Code, Chapter 8.36, "Stormwater Quality Control," and these City Standard Specifications.

The goal of these requirements is to prevent the pollution of storm water runoff from construction projects by keeping pollution out of storm drains, reducing the exposure and discharge of materials and wastes to storm water, and by reducing erosion and sedimentation. Storm drains discharge runoff directly to creeks and the river without treatment.

The following requirements shall be met on all projects within the City of Napa:

A. General

1. Non-hazardous Material / Waste Management

(a) Designated Area

The Contractor shall propose designated areas of the project site and any staging areas, for approval by the City Engineer, suitable for material delivery, storage, and waste collection that, to the maximum extent practicable, are near construction entrances and away from catch basins, gutters, drainage courses and creeks.

(b) Granular Material

The Contractor shall store granular material at least ten feet away from catch basin and curb returns.

The Contractor shall not allow granular material to enter the storm drains or creeks.

When rain is forecast within 24 hours or during wet weather, the City Engineer may require the Contractor to cover granular material with a tarpaulin and to surround the material with sandbags.

(c) Dust Control

The Contractor shall use reclaimed water to control dust on a daily basis or as directed by the City Engineer.

(d) Street Sweeping

At the end of each working day or as directed by the City Engineer, the Contractor shall clean, and sweep roadways and on-site paved areas of all materials attributed to or involved in the work. The Contractor shall not use water to flush down streets in place of street sweeping.

(e) Recycling

The Contractor shall recycle aggregate base material, asphalt concrete, and Portland cement concrete.

In addition, to the maximum extent practicable, the Contractor shall reuse or recycle any useful construction materials generated during the project providing the material complies with State and Federal regulations.

(f) Disposal

At the end of each working day, the Contractor shall collect all scrap, debris, and waste material, and dispose of such materials properly.

The Contractor shall inspect dumpsters for leaks and contact trash hauling contractors to replace or repair dumpsters that leak.

The Contractor shall not discharge water on-site from cleaning dumpsters.

The Contractor shall arrange for regular waste collection before dumpsters overflow.

2. Hazardous Material / Waste Management

(a) Storage

The Contractor shall label and store all hazardous materials, such as pesticides, paints, thinners, solvents, and fuels; and all hazardous wastes, such as waste oil and antifreeze; in accordance with the City of Napa Hazardous Materials Storage Ordinance and all applicable State and Federal regulations.

The Contractor shall store all hazardous materials and all hazardous wastes in accordance with secondary containment regulations, and it is recommended that these materials and wastes be covered, as needed to avoid potential management of collected rainwater as a hazardous waste.

The Contractor shall keep an accurate, up-to-date inventory, including Material Safety Data Sheets (MSDSs), of hazardous materials and hazardous wastes stored on-site, to assist emergency response personnel in the event of a hazardous materials incident.

(b) Usage

When rain is forecast within 24 hours or during wet weather, the City Engineer may prevent the Contractor from applying chemicals in outside areas.

The Contractor shall not over-apply pesticides or fertilizers and shall follow material manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals. Over-application of a pesticide constitutes a "label violation" subject to an enforcement action by the Napa County Agriculture Department.

(c) Disposal

The Contractor shall arrange for regular hazardous waste collection to comply with time limits on storage of hazardous wastes.

The Contractor shall dispose of hazardous waste only at authorized and permitted Treatment, Storage, and Disposal Facilities, and use only licensed hazardous waste haulers to remove the waste off-site, unless quantities to be transported are below applicable threshold limits for transportation specified in State and Federal regulations.

3. Spill Prevention and Control

The Contractor shall keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site.

The Contractor shall immediately contain and prevent leaks and spills from entering storm drains, and properly clean up and dispose of the waste and cleanup materials. If the waste is hazardous, the Contractor shall handle the waste as described in section A.2.c above.

The Contractor shall not wash any spilled material into streets, gutters, storm drains, or creeks and shall not bury spilled hazardous materials.

The Contractor shall report any hazardous materials spill to City of Napa Dispatch at (707) 257-9223.

4. Vehicle / Equipment Cleaning

The Contractor shall not perform vehicle or equipment cleaning on-site, in any staging area or in the street using soaps, solvents, degreasers, steam cleaning equipment, or equivalent methods.

The Contractor shall perform vehicle or equipment cleaning, with water only, in a designated, bermed area that will not allow rinse water to run off-site or into streets, gutters, storm drains, or creeks.

5. Vehicle / Equipment Maintenance and Fueling

The Contractor shall perform maintenance and fueling of vehicles or equipment in a designated, bermed area or over a drip pan that will not allow run-on of storm water or runoff of spills.

The Contractor shall use secondary containment, such as a drip pan, to catch leaks or spills any time that vehicle or equipment fluids are dispensed, changed, or poured.

The Contractor shall keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site.

The Contractor shall clean up leaks and spills of vehicle or equipment fluids immediately and dispose of the waste and cleanup materials as hazardous waste, as described herein.

The Contractor shall not wash any spilled material into streets, gutters, storm drains, or creeks and shall not bury spilled hazardous materials.

The Contractor shall inspect vehicles and equipment arriving on-site for leaking fluids and shall promptly repair leaking vehicles and equipment. Drip pans shall be used to catch leaks until repairs are made.

The Contractor shall recycle waste oil and antifreeze, to the maximum extent practicable.

The Contractor shall comply with Federal, State, and City requirements for aboveground storage tanks.

6. Contractor Training and Awareness

The Contractor shall train all employees/ subcontractors on the storm water pollution prevention requirements contained in these Specifications.

The Contractor shall inform subcontractors of the storm water pollution prevention contract requirements and include appropriate subcontract provisions to ensure that these requirements are met.

The Contractor shall post warning signs in areas treated with chemicals.

B. Activity-Specific Requirements

The following requirements shall be met on all projects within the City of Napa that include the listed activities.

7. Dewatering Operations

(a) Sediment Control

The Contractor shall route water through a control measure, such as a sediment trap, sediment basin, or Baker tank to remove settleable solids prior to discharge to the storm drain system.

Approval of the control measure shall be obtained in advance from the City Engineer.

Filtration of the water following the control measure may be required on a case-by-case basis

If the City Engineer determines that the dewatering operation would not generate an appreciable amount of settleable solids, the control measure requirement in (1) above may be waived.

The Contractor shall reuse water for other needs, such as dust control or irrigation, to the maximum extent practicable.

(b) Contaminated Groundwater

If the project is within an area of known groundwater contamination, then water from dewatering operations shall be tested prior to discharge. If the water quality meets Regional Water Quality Control Board (RWQCB) standards, then it may be discharged to the storm drain. If the water quality meets City of Napa Municipal Code section 8.36, then it may be discharged to the sanitary sewer with prior approval from the Napa Sanitation District. Otherwise, the water shall be treated or hauled off-site for proper disposal.

If the project is not within an area of known groundwater contamination, then monitoring shall only be required if directed by the City Engineer.

If the project is found to be within an area of groundwater contamination not identified by the City in the project specifications, a change order shall be negotiated to cover additional work performed by the Contractor pursuant to 4-1.03D "Extra Work" of the Standard Specifications.

8. Paving Operations

(a) Project Site Management

When rain is forecast within 24 hours or during wet weather, the City Engineer may prevent the Contractor from paving.

The City Engineer may direct the Contractor to protect drainage courses by using control measures, such as earth dike, straw waddles, and sandbag, to divert runoff or trap and filter sediment.

The Contractor shall place drip pans or absorbent material under paving equipment when not in use.

The Contractor shall cover catch basins and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.

(b) Paving Waste Management

The Contractor shall not sweep or wash down excess sand placed as part of a sand seal or to absorb excess oil into gutters, storm drains, or creeks. Instead, the Contractor shall either, collect the sand and return it to the stockpile, or dispose of it in a trash container. The Contractor shall not use water to wash down fresh asphalt concrete pavement.

9. Saw Cutting

During saw cutting, the Contractor shall cover or barricade catch basins using control measures, such as filter fabric, straw bales, sand bags, and fine gravel bags, to keep slurry out of the storm drain system. When protecting a catch basin, the Contractor shall ensure that the entire opening is covered.

The Contractor shall shovel, absorb, or vacuum saw cut slurry and pick up the waste prior to moving to the next location or at the end of each working day, whichever is sooner.

If saw cut slurry enters catch basins, the Contractor shall remove the slurry from the storm drain system immediately.

10. Contaminated Soil Management

On all projects involving grading or excavation, the Contractor shall look for contaminated soil as evidenced by site history, discoloration, odor, differences in soil properties, abandoned underground tanks or pipes, or buried debris. If the project is not within an area of known soil contamination and no evidence of soil contamination is found, then testing of the soil shall only be required if directed by the City Engineer. The Contractor shall follow points 4.b and 4.c below if contamination is found.

If the project is within an area of known soil contamination or evidence of soil contamination is found, then soil from grading or excavation operations shall be tested. The soil shall be managed as required by the Napa County Environmental Health Department or other agency.

If the project is found to be within an area of soil contamination not identified by the City in the project specifications, a change order shall be negotiated to cover additional work performed by the Contractor pursuant to 4-1.05A "Extra Work" of the Standard Specifications.

11. Concrete, Grout, and Mortar Waste Management

(a) Material Management

The Contractor shall store concrete, grout, and mortar away from drainage areas and ensure that these materials do not enter the storm drain system.

(b) Concrete Truck/Equipment Wash Out

The Contractor shall not wash out concrete trucks or equipment into streets, gutters, storm drains, or creeks.

The Contractor shall perform washout of concrete trucks or equipment off-site or in a designated area on-site where the water will flow onto dirt or into a temporary pit in a dirt area per Caltrans Standard Detail T-59. The Contractor shall not let the water percolate into the soil but allow it to evaporate or dispose

of it per 1.10.02 "Activity-Specific Requirements" 1.A. (1) and dispose of the hardened concrete in a trash container.

12. Earthwork

The Contractor shall maximize the control of erosion and sediment by using the BMPs for erosion and sedimentation in the California Storm Water Best Management Practice Handbook – Construction Activity.

1.10.03 PRE-CONSTRUCTION MEETING

A Pre-Construction Meeting shall be held prior to the commencement of work. The City Engineer will designate the time and place. The Prime Contractor (and major sub-contractors as required) must attend the meeting. The Contractor's representative at this conference shall include all major superintendents for the work and may include major subcontractors.

At, or prior to, this meeting the Prime Contractor must submit:

1. A copy of their City of Napa business license.
2. A letter or memorandum designating the authorized representative who shall have authority to represent and act for the Contractor during the entire work period.
3. A letter or memorandum designating two 24-hour emergency contact persons and their telephone numbers.
4. A project schedule.
5. A Traffic Control Plan per the City of Napa "Traffic Control Plan Preparation Guidelines for Contractors".

1.10.04 OBSTRUCTIONS

Attention is directed to Section 5-1.36C, "Non-Highway Facilities," and Section 15, "Existing Facilities," of the Standard Specifications and these City Standard Specifications.

A traffic control plan, prepared in accordance with the California Supplement of the Manual of Uniform Traffic Control Devices Section 6 (Section 5 is not allowed), shall be submitted as part of the improvement plan set.

Flagging, signs, and all other traffic control devices furnished, installed, maintained, and removed when no longer required shall conform to the provisions in Section 12, "Temporary Traffic Control," of the Standard Specifications and these general provisions.

Type II retroreflective sheeting shall not be used on construction area sign panels.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 working days, but not more than 14 calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert-Northern California (USA)	811

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

Sign substrates for stationary mounted construction area signs shall be fabricated from materials that are approved by the City Engineer.

The Contractor may be required to cover certain signs during the progress of the work. Signs that are no longer required or that convey inaccurate information to the public shall be immediately covered or removed, or the information shall be corrected. Covers for construction area signs shall be of sufficient size and density to completely block out the complete face of the signs. The retroreflective face of the covered signs shall not be visible either during the day or at night. Covers shall be fastened securely so that the signs remain covered during inclement weather. Covers shall be replaced when they no longer cover the signs properly.

The Contractor shall notify residents and property owners in writing forty-eight (48) hours (excluding weekends and holidays) prior to performing any work at the site. The notification form to be provided to residents and property owners shall be submitted to the City for review and approval. Street parking may be restricted as necessary to facilitate construction activity. "No Parking" signs, as required, shall be placed by the Contractor forty-eight (48) hours in advance of the parking restriction. "No Parking" signs shall have the following information:

- "Tow Away, No Parking"
- Date of Restriction
- Time of Restriction
- "Construction Zone"
- "Vehicles in Violation Subject to Tow at Owner's Expense"
- "Napa Police Department: 707-257-9223"
- CVC 22658 (1); CVC 22651 (L)

"No Parking" signs shall have red letters on a white background. "No Parking" signs shall be spaced no more than thirty (30) feet apart.

In-lieu of provisions to the contrary in the Standard Specifications, the following provisions shall apply:

The cost of furnishing, installing, maintaining and removing signs, sign covers, lights, flares, temporary railing, barricades, flagmen, guards and all construction area traffic control devices shall be borne by the Contractor.

1.10.05 UTILITIES

Developers are required to determine all utilities that exist within the project-area and to contact all agencies to determine the requirements applicable to their development. The following is a list of the typical utility systems and the respective owners, there may be other utilities not listed:

1. The sanitary system is owned and operated by the Napa Sanitation District.
2. The gas and electricity distribution systems are owned and operated by the Pacific Gas and Electric Company.

3. The telephone system is owned and operated by AT&T.
4. The cable television system is owned and operated by Comcast.
5. The water system is owned and operated by the City of Napa Utilities Department – Water Division.
6. The street lighting system is owned and operated by the City of Napa.

The Contractor shall limit construction operations to a maximum of 500 linear feet, including excavation, pipe laying and compacting backfill unless otherwise approved by the City Engineer. A trench which has been backfilled and has a surface of temporary paving shall not be counted in this footage. The work area shall be kept in a neat and orderly condition throughout the life of the project and material shall not be stored or placed near intersections for traffic safety.

The Contractor shall exercise care to avoid any damage to utilities during construction.

The Contractor shall contact the City of Napa Utilities Department - Water Division (707-257-9521) and Electrical Division (707-257-9588), Comcast, Napa Sanitation District, Pacific Gas and Electric Company, AT&T, and Underground Service Alert (USA) (811 or 1-800-227-2600), (and any other potentially impacted public or private utility companies) a minimum of 48 hours before underground construction is performed, to ascertain the location of the existing underground utilities within the project area unless City Encroachment Permit specifies otherwise. Contractor is responsible for blacking out U.S.A. markings after the completion of construction.

Any damage to underground utility lines or laterals will be Contractor's responsibility to repair, or to pay for the repairs if the utilities decide to make the repairs with their own forces.

1.10.06 MAINTAINING TRAFFIC

Attention is directed to Sections 7-1.03, "Public Convenience," 7-1.04, "Public Safety," and 12, "Temporary Traffic Control," of the Standard Specifications and to the provisions in "Public Safety" of these City Standard Specifications. Nothing in these City Standard Specifications shall be construed as relieving the Contractor from the responsibilities specified in Section 7-1.04 of the Standard Specifications.

Lane closures shall conform to the provisions in section "Traffic Control System for Lane Closure" of these City Standard Specifications.

The Contractor shall provide for the safe and orderly movement of traffic at all times during construction. On all streets, one lane in each direction shall be maintained at all times. Temporary street closures or providing only one lane for both directions may be approved by the City Engineer provided adequate circulation is maintained and/or adequate flagmen and signage satisfactory to the City Engineer is provided. Any lane closures shall be limited to the hours of 9:00 AM to 3:00 PM unless approved by the City Engineer.

No street closures will be allowed unless directed by the City Engineer. If the Contractor desires a street closure, the Contractor shall submit a written request, accompanied with a traffic control plan, to the City Engineer for review and approval. The request shall state the reason, locations, and times for the closure, and shall be submitted a minimum of ten (10) working days prior to the scheduled work.

The City Engineer shall approve or deny the request within three (3) working days after the receipt of the request. If approved, the Contractor shall notify the Police and Fire Department of the City, the Division of Forestry and Fire Protection (CalFire), local ambulance services,

the V.I.N.E. Bus Service, Napa Recycling and Waste Services, Napa Valley Unified School District Transportation Department and the U.S. Post Office in writing, forty-eight (48) hours in advance of all street closures and keep the Fire Department posted at all times regarding available access to the streets. The Contractor shall also notify United Parcel Service (UPS), Federal Express and other mail delivery services of planned street closures and the current schedule.

Overnight street closures are allowed only with director's approval.

The Contractor shall furnish, install, maintain, and remove barricades, lights and signs as required, and shall provide flagmen and other facilities to safeguard adequately the general public (including vehicles, bicycles and pedestrians) and the work as may be deemed necessary by the City Engineer.

The Contractor shall take extra care to minimize disruption to the adjacent residences/businesses during the progress of work. The Contractor shall provide access to all residences and/or businesses at all times during the progress of the work. The Contractor shall phase the work to ensure that access to each residence and business is provided at all times. Commercial driveways shall be provided with at least ten (10) feet wide of unobstructed opening at all times.

Subject to the coordination with and approval of property owners and approved in advance by the City Engineer in writing, temporary closure of driveways may be allowed. However, in no case shall a driveway remain closed for more than six hours unless otherwise authorized by the City Engineer. Prior to closure of driveways, the Contractor shall coordinate and notify the property owner or resident at least twice of such closure. Closure notices shall be given to the property owner or resident twenty-four (24) hours and one (1) hour prior to each closure. A copy of the closure notice shall be furnished to the City Engineer for review and approval prior to each closure.

The Contractor shall file, with the City Engineer and Police Department, the name and telephone number of their representative (provide minimum two contacts) to be notified after normal working hours and on weekends, in case of emergency. This information shall be provided at the Preconstruction Meeting. If a preconstruction meeting is not held, it shall be provided to the City prior to the start of work.

The Contractor shall submit, at least ten (10) days prior to the initial on-site work, a traffic control plan which conforms to all requirements of these City Standard Specifications and Standard Specifications. This plan shall include all lane closures, construction area signs, detours, and parking prohibitions. Traffic control plans shall conform to the most current edition of the "California Manual on Uniform Traffic Control Devices". No work shall commence prior to the submittal and approval of a satisfactory traffic control plan. A traffic control plan shall not be deemed satisfactory unless it conforms to the requirements of the aforementioned manual and has been reviewed and approved by the City Engineer.

At the end of each working day, if a difference in excess of 0.15-foot exists between the elevation of the existing pavement and the elevation of any excavation within 8 feet of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose. The material shall be placed to the level of the elevation of the top of the existing pavement and tapered at a slope of 4:1 or flatter to the bottom of the excavation. In the case of PCC curb ramps, there must be no difference between the elevation of the existing bottom of ramp and the elevation of the existing pavement; ADA compliance must be maintained for areas open to the public.

1.10.07 FINISHING WORK

Finishing Work shall conform to the requirements of Section 22, "Finish Roadway," of the Standard Specifications and these City Standard Specifications.

Filling and grading, with soil backfill, between the curb and sidewalk and filling, grading, and shaping behind the curb and sidewalk, and within the project area shall be considered as part of this section.

Cleanup of the roadway of all construction debris at the end of each workday shall be included as part of this section.

1.10.08 DUST CONTROL

Attention is directed to Section 10-5 "Dust Control," Section 14-11.04 "Dust Control," and Section 18 "Dust Palliatives," of the Standard Specifications and these City Standard Specifications.

The Contractor shall be familiar with and comply with all monitoring, reporting, notifications, and control requirements of agencies having jurisdiction over air quality.

The Contractor shall prevent the formation of an airborne dust nuisance by watering work areas as required until the project is completed and accepted. The amount of water used shall not be excessive to cause soil and/or water run-off outside the boundaries of the working area. If soil run-off occurs, the Contractor shall immediately notify the City Engineer and identify the area where run-off occurred. The Contractor shall provide polyethylene sheeting to place underneath and over any stockpiled soil. The stockpile shall be covered daily after completion of work or as required by the City's Municipal Stormwater requirements for construction. The sheeting shall be adequately weighted or secured to keep the sheeting in place during non-work periods. The Public Works Director may require work to be suspended if dust control is inadequate.

1.10.09 CLEARING AND GRUBBING

Clearing and grubbing shall conform to the provisions in Section 17-2, "Clearing and Grubbing," of the Standard Specifications and these City Standard Specifications.

Vegetation shall be cleared and grubbed only within the excavation and embankment slope lines.

At locations where there is no grading adjacent to a bridge or other structure, clearing and grubbing of vegetation shall be limited to 5 feet outside the physical limits of the bridge or structure.

Existing vegetation outside the areas to be cleared and grubbed shall be protected from injury or damage resulting from the Contractor's operations.

Activities controlled by the Contractor, except cleanup or other required work, shall be confined within the graded areas of the roadway.

Nothing herein shall be construed as relieving the Contractor of the Contractor's responsibility for final cleanup of the highway as provided in Section 4-1.13, "Cleanup," of the Standard Specifications.

Vegetable growth from clearing and grubbing operations may be disposed of in embankments in conformance with the provisions in "Earthwork" of these City Standard Specifications.

1.10.10 EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these City Standard Specifications.

Amend Section 19-5.03B "Relative Compaction (95 Percent)" by adding the following:

In addition, contractor shall obtain complete stabilization of subgrade material with no rolling or deflection of the subgrade. This proof-rolling is determined by passing a loaded 3 axle water truck, cement truck or similar vehicle over the completed subgrade without the material rolling, deflecting more than ¼" or cracking perpendicular to the path of travel. Proof-rolling shall be observed by a City Inspector.

Compaction testing shall conform to ASTM D1557.

If accepted subgrade becomes saturated and/or disturbed or more than five working days pass between acceptance of the material and placement of the upper layer, the subgrade must again be proof-rolled and retesting will be required. The cost of the retesting shall be borne by the Contractor.

Upon City Engineer's approval of the subgrade, placement of the aggregate base material may proceed.

Surplus excavated material shall become the property of the Contractor and shall be disposed of in conformance with these standards and the provisions in Section 5-1.20B(4), "Contractor-Property Owner Agreement," of the Standard Specifications.

If the Contractor elects to dispose of materials at locations other than those where arrangements have been made by the Department, or, if material is to be disposed of and the Department has not made arrangements for disposal of the material, the Contractor shall make arrangements for disposing of the materials outside the highway right of way and shall pay all costs involved.

Before disposing of any material outside the highway right of way, the Contractor shall furnish to the City Engineer satisfactory evidence that the Contractor has entered into agreements with the property owners of the site involved and has obtained the permits, licenses and clearances.

When any material is to be disposed of outside the highway right of way, and the Department has not made arrangements for disposal of the material, the Contractor shall first obtain written authorization from the property owner on whose property the disposal is to be made and the Contractor shall file with the City Engineer the authorization or a certified copy thereof together with a written release from the property owner absolving the State from any and all responsibility in connection with the disposal of material on the property.

Before any material is disposed of on the property, the Contractor shall obtain written permission from the City Engineer to dispose of the material at the location designated in the authorization.

Where a portion of the existing paved or concrete surfacing is to be removed, the outline of the area to be removed shall be cut on a neat line with a power-driven saw to a minimum depth of 0.20 foot before removing the surfacing.

Yielding Subgrade:

“Yielding Subgrade” is defined as subgrade that exhibits potential failure. Determination of a yielding subgrade shall be determined by the City Engineer on-site. When yielding subgrade is encountered the Contractor shall over-excavate 12” below finish sub grade. Place Mirafi 2XT Geogrid (or approved equivalent) on over-excavated subgrade. Install 12” of 1 ½” class 2 aggregate base at 95% compaction. Install layer of Mirafi 500x (or approved equivalent) at top of 1 ½” class 2 AB. Install ¾” class 2 aggregate base section per plan.

1.10.11 GRADING PERMITS

A grading permit shall not be issued for grading work on any property prior to a project application, or while a project application for the property is under consideration by the City.

Following project approval by the City, as defined herein, and final approval of the grading plan(s) by the Public Works Director, upon request of the applicant, a separate grading permit may be issued by the Chief Building Official prior to issuance of a building permit or approval of the Final Subdivision Map/Parcel Map.

- For subdivisions, project approval is final approval by the City Council of the Tentative Subdivision Map.
- For projects requiring use permits, project approval is expiration of the statutory appeal period with no appeal having been filed, or final approval of the use permit by the City Council.

Upon a finding of no significance by the Public Works Director, a grading permit may be issued for minor work, the first two paragraphs of this section notwithstanding.

For all grading permits that include the off-haul of more than 50 cubic yards of material, the contractor is to provide a written description of the disposal concept and a copy of any permits issued to allow the placement of that material at the destination site.