

## SECTION 1

### PURPOSE, DEFINITIONS AND ABBREVIATIONS (PD)

**1-1 PURPOSE** - The purpose of these Construction Standards is to provide **minimum** standards to be applied to the construction of improvements which are to be dedicated to the public and accepted by the City for maintenance and/or operation. These Construction Standards may also apply to certain private works, as well as improvements to be installed within existing right-of-ways and easements. This is necessary in order to provide for coordinated development of required facilities to be used by the public and for the protection of the health, safety and welfare of the public. These Construction Standards shall apply to, regulate, and guide construction of streets, bikeways, alleys, traffic signals, site access, drainage facilities, sewerage collection facilities, water supply facilities and related public improvements, and shall set guidelines for all private works which involve drainage, grading, trees and related improvements.

**1-2 CONSTRUCTION PRACTICE** - Because it is virtually impossible to anticipate all situations that may arise or to prescribe specifications applicable to every situation, any items or situations not included in these Construction Standards shall be constructed in accordance with the approved project improvement plans, accepted construction practices, the City of Grass Valley Public Works Department "Design Standards", the State of California Department of Transportation Caltrans Standard Specifications, the State of Caltrans Construction Manual, the Caltrans Standard Plans, and/or other standards as specified by the Public Works Director/City Engineer.

Should conflicts arise between documents, specifications in these Construction Standards and the approved improvement plans shall take precedence over the Caltrans Standard Specifications. In the event of conflict between applicable documents and/or plans, the most restrictive shall prevail.

The Public Works Director/City Engineer may require additional specifications and/or regulations when deemed necessary to protect the health, safety and welfare of the public.

**1-3 DEFINITIONS** - Whenever the following terms or titles are used in these specifications, or in any document or instrument where these specifications govern, the intent and meaning shall be defined as:

- A. Applicant** - The Developer or their consulting engineer working on their behalf.
- B. Approved Plans** - All plans prepared for construction of improvements, reviewed, approved and signed by the necessary Departments within the City of Grass Valley.
- C. City** - The City of Grass Valley and its applicable Departments.
- D. City Engineer** - The Public Works Director/City Engineer of the City of Grass Valley, acting either directly or through the staff of the appropriate Divisions of the Public Works Department, or their authorized representatives.
- E. Community Development Director** - The Community Development Director of the City of Grass Valley, acting either directly or through the staff of the appropriate Divisions of the Community Development Department or their authorized representatives.
- F. Compaction** - The increase of density of a soil or rock fill by mechanical means.

- G. Construction Standard Details** - The standard construction drawings as set forth in these Construction Standards, approved by the Public Works Director/City Engineer, and as amended.
- H. Consulting Engineer** - Any person(s), firm(s), partnership(s) corporation(s), or combination of, legally and currently registered, licensed and authorized to practice professional engineering in the State of California who prepares or submits improvement plans and specifications for approval by the Public Works Department of the City of Grass Valley.
- I. Contractor** - Any person(s), firm(s), partnership(s), corporation(s) or combination of, currently licensed to perform the type of work involved, who has entered into a contract with any person, corporation or company, or their legal representatives, for the construction of any approved improvement, or portion of any improvement, within the City of Grass Valley.
- J. Developer** - Any person(s), firm(s), partnership(s), corporation(s), or combination of, financially responsible for the work involved.
- K. Development** - The act or process of any construction on properties as well as subdivision improvements.
- L. Fees** -The schedule of fees and costs shall be those established and adopted by the City Council, from time to time, by resolution or ordinance.
- M. Geotechnical Engineer** - A professional engineer, currently licensed by the State of California as qualified in the field of soil mechanics, and soil engineering, and eligible to use the title “Soils Engineer.”
- N. Hazards** - Any work or condition on private or public property that constitutes a risk to public safety, endangers property, negatively impacts the air quality, or negatively impacts the water quality of any bodies of water or water courses. Also any work or condition that adversely affects the safety, use, and/or stability of adjacent property, overhead or underground utilities, public ways, waterways or drainage channels
- O. Improvements** - Refers to street work, bridges, sidewalk, curb, gutter, driveways, sanitary sewer, water facilities, storm drainage, traffic signals, public utilities, landscaping, irrigation, parks, fences, walls, and other facilities to be constructed or installed, by the developer within an existing or future public right-of-way or easement, private areas, and other improvements that the City of Grass Valley is responsible to inspect.
- P. Laboratory** - Any testing agency or testing firm, which has been approved by the Public Works Department.
- Q. National Pollutant Discharge Elimination System (NPDES)** - A Federal permit administered by the State Water Resources Control Board and the Regional Water Quality Control Boards (Region 5S-Central Valley).
- R. Notice of Intent (NOI)** - The notification to the State Water Quality Board necessary to comply with the NPDES General Permit if the project area results in the disturbance of one-acre or more of total land area, or which is part of a larger common area of development or sale
- S. Owner** - The legal owner of the property on the latest equalized assessment roll in the office of the County assessor.

- T. Public Works Department** - The Public Works Department of the City of Grass Valley.
- U. Permits** - An official document or certificate issued by a government agency authorizing performance of a specified activity.
- V. Public Facilities** - Streets, sewers, water supply, etc., for public use.
- W. Rainy Season** - For the purpose of the Construction Standards, the rainy season is defined as October 15<sup>th</sup> to April 15<sup>th</sup>, inclusive.
- X. Relative Compaction** - The result of processing soil and moisture in the most effective manner to obtain the maximum density and stability (or as a minimum, the required percentage of compaction). All relative compaction testing shall reference ASTM D 1557-1578.
- Y. Safety Rules/Orders** - Subchapter 4, Construction Safety Orders, of Chapter 4, Division of Industrial Safety, of the California Division of Occupational Health and Safety, Title 8 regulations.
- Z. Soils Report** - A report prepared by any person(s), firm(s), partnership(s), or corporation(s) currently legally licensed to prepare "Soils Reports" in the State of California.
- AA. State** - As used in State Specifications, is the City of Grass Valley. If a state in the USA, is the State of California.
- BB. State Highway Design Manual** - The "Highway Design Manual" of the State of California, Department of Transportation (Caltrans), latest edition.
- CC. State Standard Plans** - The "Standard Plans" of the State of California, Department of Transportation (Caltrans), latest edition.
- DD. State Standard Specifications** - The "Standard Specifications" of the State of California, Department of Transportation (Caltrans), latest edition.
- EE. State Traffic Manual** - The "Manual on Uniform Traffic Control Devices for Streets and Highways", of the State of California, Department of Transportation (Caltrans), latest edition.
- FF. State Construction Manual** - The "Construction Manual" of the State of California, Department of Transportation (Caltrans), latest edition.
- GG. Stop Work Notice** - An order issued by the City Engineer to suspend the Contractors work until an illegal or hazardous situation can be resolved.
- HH. Storm Water Pollution Prevention Plan (SWPPP)** - The plan required by the National Pollution Discharge Elimination System (NPDES) permit. This shall include BMPs for stormwater management, including a revegetation and winterization plan for review and approval.
- II. Subdivision Ordinance** - The "Subdivision Ordinance" of the City Code as adopted by the City Council of the City of Grass Valley.

**JJ. Work Hours** - The hours authorized to perform project work involving machinery or equipment with engines running. Workers shall not be on site more than ½ hour before or after authorized work hours and then only to perform project related functions.

**KK. Zoning Ordinance** -The "Zoning Ordinance" of the City Code as adopted by the City Council of the City of Grass Valley.

**1-4 ABBREVIATIONS** - The following abbreviations are used within these Construction Standards:

**AASHTO:** American Association of State Highway and Transportation Officials

**AB:** Aggregate Base

**ABS:** Acrylonitrile-Butadiene-Styrene

**AC:** Asphalt Concrete and Alternating Current

**AS:** Aggregate Subbase

**ANSI:** American National Standards Institute

**ARV:** Air Release Valve

**ASTM:** American Society for Testing and Materials

**AWG:** American Wire Gauge

**AWWA:** American Water Works Association

**BCR:** Beginning of Curb Return

**BMP:** Best Management Practices

**BO:** Blow Off

**CAL OSHA:** State of California Occupational Safety and Health Act

**Caltrans:** State of California Department of Transportation

**C & G:** Curb and Gutter

**C-C:** Center to Center

**CEQA:** California Environmental Quality Act

**C.F.:** Cubic Foot

**CIP:** Cast-in-place

**C/L:** Centerline

**C.M.P.:** Corrugated Metal Pipe

**CMUTCD:** California Manual on Uniform Traffic Control Devices

**Const. :** Construction

**CST:** Construction Standards, Construction

**Ctrs:** Centers

**Cu. Ft.:** Cubic Feet

**DET:** Detail

**DFR;** Daily Field Report

**Dia.:** Diameter

**DIP:** Ductile Iron Pipe

**DLC:** Detector Lead-in Cable

**DR:** Drainage

**Dwg:** Drawing

**Fdn.:** Foundation

**FL:** Flowline

**Ga.:** Gauge

<b>Gal.:</b>	Gallon
<b>Galv.:</b>	Galvanized
<b>GR:</b>	Grading
<b>HDPE:</b>	High Density Polyethylene
<b>Horz.:</b>	Horizontal
<b>Hz:</b>	Hertz
<b>IBOC:</b>	Internal Battery Operated Clock
<b>ID:</b>	Inside Diameter
<b>LED:</b>	Light Emitting Diode
<b>LS:</b>	Landscaping
<b>LMA:</b>	Luminaire Mast Arm
<b>MAS:</b>	Mast-Arm Side mount
<b>MAT:</b>	Mast -Arm Top mount
<b>Max.:</b>	Maximum
<b>Mil.:</b>	Millimeter
<b>Min.:</b>	Minimum
<b>M.P.:</b>	Metal Plate
<b>NPDES:</b>	National Pollutant Discharge Elimination System:
<b>No.:</b>	Number
<b>O.C.:</b>	On Center
<b>OD:</b>	Outside Diameter
<b>OSHA:</b>	Occupational Safety & Health Act
<b>P.C.C.:</b>	Portland Cement Concrete
<b>PEU:</b>	Photoelectric Unit
<b>P.O.C.:</b>	Point of Connection
<b>PPB:</b>	Pedestrian Push Button
<b>Ppm:</b>	parts per million
<b>psi:</b>	pounds per square inch
<b>P.U.E</b>	Public Utility Easement
<b>PVC:</b>	Polyvinyl Chloride
<b>PWD:</b>	Public Works Director/Department
<b>RCP:</b>	Reinforced Concrete Pipe
<b>RCV:</b>	Remote Control Valve
<b>Rwd.:</b>	Redwood
<b>RWQCB:</b>	California Regional Water Quality Control Board
<b>R.P.:</b>	Radius Point
<b>R/W:</b>	Right-of-Way
<b>Sch.:</b>	Schedule
<b>SDMH:</b>	Storm Drain Manhole
<b>SMA:</b>	Signal Mast Arm
<b>SS:</b>	Sanitary Sewer System
<b>SSMH:</b>	Sanitary Sewer Manhole

<b>ST:</b>	Street
<b>STD:</b>	Standard
<b>SWPPP:</b>	Storm Water Pollution Prevention Plan
<b>SWRCB:</b>	State Water Resources Control Board
<b>TCP:</b>	Traffic Control Plan
<b>TS:</b>	Traffic Signals and Markings
<b>Typ.:</b>	Typical
<b>UBC:</b>	Uniform Building Code
<b>UL:</b>	Underwriters' Laboratory, Inc.
<b>U.S.A.:</b>	Underground Service Alert
<b>VA:</b>	Volts ampere
<b>Var.:</b>	Variable
<b>Vert.:</b>	Vertical
<b>WWF:</b>	Welded Wire Fabric
<b>WWM:</b>	Welded Wire Mesh

All references to specifications, standards or other publications refer to the current issue.

- 1-5 UPDATES** - These Construction Standards and the Standard Details shall be updated as necessary to reflect the changing technology and thinking of the engineering profession, the construction industry and the City of Grass Valley. All updates will be as directed by the Public Works Director/City Engineer and as approved by the City Council of the City of Grass Valley. Users of this document shall be responsible for obtaining updates from the City of Grass Valley, Engineering Division