

**EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS**

PART 1 - GENERAL

1.01 INCLUSION OF OTHER CONTRACT DOCUMENTS

- A. Standard Specifications. The work embraced herein shall be done in accordance with the provisions of the STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2009 Edition, written by Public Works Standards, Inc., insofar as the same may apply, which specifications are hereinafter referred to as the Standard Specifications.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 02072, Minor Demolition.
- B. Section 02200, Earthwork.

1.03 QUALITY ASSURANCE

- A. Contractor /Installer/Fabricator shall have been in business for Five (5) years providing/installing/finishing similar size projects and complexity.
- B. Comply with governing codes and regulations.
- C. Comply with the State Water Resources Control Board requirements.

1.04 SUBMITTALS

- A. Refer to Standard Specification Section 2-5.3.
- B. Manufacturer's Data: Submit list and complete descriptive data of all products proposed for use. Include manufacturer's specifications, published warranty or guarantee, installation instructions, and maintenance instructions.

1.05 GUARANTEE

- A. Plan shall be implemented and function properly during the entire time it is required for project.

1.06 REFERENCES AND STANDARDS

- A. California Building Code current edition at time of permit issuance.
- B. California Storm Water Qualities Association (CASQA)
 - 1. CASQA Construction BMP Handbook, available online at www.casqa.org
- C. Title 24 California Code of Regulations.
- D. YUBA COUNTY Standards and Specifications.

1.07 DELIVERY, STORAGE AND HANDLING

EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS

- A. Transport, store and handle in strict accord with the local jurisdiction.
- B. Make delivery to job when notified by Contractor verifying that the job is ready to receive the work of this Section and that arrangements have been made to properly store, handle and protect such materials and work.

1.08 PROJECT CONDITIONS

- A. Field-verify that all infrastructure, components, etc. provided by others are installed correctly before proceeding with installation of products as herein specified.

1.09 EXISTING SITE CONDITIONS

- A. Contractor shall acquaint himself with all site conditions. If unknown active utilities are encountered during work, notify the County's Project Manager promptly for instructions. Failure to notify will make Contractor liable for damage to these utilities arising from Contractor's operations subsequent to discovery of such unknown active utilities.

1.10 PROTECTION

- A. Adequate protection measures shall be provided to protect workmen and passers-by on and off the site. Adjacent property shall be fully protected throughout the operations. Blasting will not be permitted. Prevent damage to adjoining improvements and properties both above and below grade. Restore such improvements to original condition should damage occur. Replace trees and shrubs outside building area disturbed by operations.
- B. In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for working conditions at the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and shall not be limited to normal working hours.
- C. Any construction review of the Contractor's performance conducted by the owner's representative is not intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.
- D. Surface Drainage: Provide for surface drainage during period of construction in manner to avoid creating nuisance to adjacent areas. The contractor shall make a reasonable effort on a daily basis to keep all excavations and the site free from water during entire progress of work, regardless of cause, source, or nature of water.
- E. Adjacent streets and sidewalks shall be kept free of mud, dirt or similar nuisances resulting from earthwork operations.
- F. The site and adjacent influenced areas shall be watered as required to suppress dust nuisance. Dust control measures shall be in accordance with the local jurisdiction.

**EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS**

1.11 PERFORMANCE, TESTING AND INSPECTION

- A. General:
 - 1. Comply with manufacturers standards.
 - 2. Comply with Building Code.
 - 3. Job site inspections shall be done as herein specified and as listed in drawings.
- B. Standards: CASQA Construction BMP Handbook.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Single source responsibility, specified items shall be from one manufacturer for each product type.
- B. Acceptable manufacturers shall be one of the following:
 - 1. Reviewed Equivalent by Architect.
 - a. Substitutions and deviations shall require Architect's approval and shall be given in letterform.
 - b. Proposed alternate products must be equal in terms of chemical composition, color, finish, configuration, performance standards, etc.
- C. All products and materials indicated shall be installed according to current listed specification requirements and manufacturers specifications/recommendations.
- D. Refer to drawings, details, and other related specification section whether listed or not.

2.02 MATERIALS

- A. Straw Wattles: Shall be straw wattles bound with wire or nylon string.
- B. Inlet filters: Shall be as detailed in the Drawings.

2.03 OTHER MATERIALS

- A. Provide other materials (BMP's) as necessary to comply with state and local codes, not specifically described but required for a complete and proper installation, such BMP's selected by the General Contractor subject to the approval of the Architect Owner.

EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS

PART 3 - EXECUTION

3.01 EXAMINATION OF CONDITIONS

- A. Verification of Conditions:
 - 1. Examine areas and conditions under which work is to be performed.
 - 2. Identify conditions detrimental to proper or timely completion of work and coordinate with General Contractor to rectify.

3.02 INSTALLATION

- A. Plan
 - 1. A Storm Water Pollution Prevention Plan (SWPPP) is not required. It is the contractor's responsibility to employ the measures he/she deems necessary to comply with State and Local Requirements.
- B. Implementation and installation
 - 1. Straw Wattles:
 - a. Each wattle shall be staked as shown on the drawings, or in accordance with CASQA Construction BMP Handbook. In paved areas stakes can be replaced with sand bags laid over wattles at same spacing.
 - b. Ends shall be horizontally overlapped at least 12 inches and secured with stakes or sandbags.
 - 2. Inlet Filters:
 - a. Filter Bags: Shall be installed per the drawings.
 - b. Wattle Inlet Filters: Shall be installed per the drawings.
 - c. Straw bale Inlet Filters: Shall be installed in accordance with CASQA Construction BMP Handbook.

3.03 COORDINATION

- A. Coordinate scheduling, submittals, and Work of the various Sections of specifications to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. General Contractor shall coordinate work as herein specified, as required to complete scope of work with all related trades.
- C. Schedule materials deliveries to provide for minimal onsite storage and/or providing covered storage for materials wherever practical.

**EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS**

- D. Designate specific areas for overnight equipment storage and maintenance and providing runoff control around those areas to minimize the potential for runoff to contact spilled materials.
- E. Coordinate completion and clean up of Work of separate Sections in preparation for Substantial Completion and for portions of Work designated for Owners occupancy.
- F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

3.04 MAINTENANCE AND REMOVAL

- A. General:
 - 1. Maintain and repair existing and new erosion control facilities throughout the construction period.
 - 2. Remove silt build up at straw wattles and/or silt fences as needed.
 - 3. Repair damage to earth slopes and banks.
 - 4. Erosion control measures shall be left in place until final paving and landscaping are complete.
- B. Monitoring:
 - 1. Provide monitoring/maintenance of erosion control measures before and after storm events.
 - 2. Provide a daily log of construction activities and impact on erosion control measures, if any.
 - 3. Update erosion control plan continuously throughout construction period as modifications become necessary.
- C. Remove erosion control measures prior to placing finish landscaping.

3.05 PROTECTION AND CLEANING

- A. Keep areas of work free from debris as work progresses.
- B. Subcontractor will keep the work areas in a clean and safe condition so his rubbish, waste, and debris do not interfere with the work of others.
- C. Protect work and materials of this Section prior to and during installation, and protect the installed work and materials of other trades.
- D. In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no cost to the Owner.

EROSION CONTROL
Section 02270
YUBA COUNTY PARKING
LOT IMPROVEMENTS

- E. After completion of work in this section, remove all erection equipment and implements of service, and debris.
 - 1. Leave entire area in a neat, clean, acceptable condition.
- F. Provide Guarantee/Warranties and Bonds as required by the Standard Specifications.
- G. Close out, on-site, inspection will be at the discretion of the County's Project Manager after he received the General Contractor's Notice of Substantial Completion.

END OF SECTION