

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

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SANTA BARBARA • SANTA CRUZ

OFFICE OF DESIGN & CONSTRUCTION SERVICES and PHYSICAL FACILITIES

CONTRACTING SERVICES
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SENT VIA: FAX ON THIS DATE
 HAND DELIVERY ON THIS DATE
 FEDERAL EXPRESS ON THIS DATE
 UNITED PARCEL SERVICE ON THIS DATE

HOLDERS OF PLANS AND SPECIFICATIONS:

JOB ORDER CONTRACT - HAZARDOUS
MATERIAL REMOVAL & DEMOLITION IN
SUPPORT OF PUBLIC BID PROJECTS
Project No. FM100356-JOC
Addendum No. ONE

July 9, 2010

Enclosed is **ADDENDUM NO. ONE** to the Construction Documents on the above-captioned project.

Bid date has been changed from Thursday, July 15, 2010 at 2:30PM to **Tuesday, July 20, 2010 at 2:30 PM** to be held at:

CONTRACTING SERVICES
Facilities Management, Bldg. 439,
Door #E, Reception Counter
University of California, Santa Barbara
Santa Barbara, CA 93106-1030.

Late arrivals shall be disqualified. Please allow time for unforeseen traffic delays, securing a parking permit and potential parking problems.

A handwritten signature in black ink, appearing to read "Anna Galanis".

Anna Galanis
Director, Contracting Services

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

ADDENDUM NUMBER 1

to the

Construction Documents

July 9, 2010

GENERAL

The following changes, additions or deletions shall be made to the following document(s) as Indicated; all other conditions shall remain the same.

I. TABLE OF CONTENTS

Item No.

1. Table of Contents, **DELETE** "List of Drawings".

Item No.

2. Table of Contents, **DELETE** "Drawings (Under Separate Cover)".

Item No.

3. Table of Contents, **ADD**, Volume II in attached CD".

Item No.

4. Table of Contents, **ADD**, Volume II – Construction Task Catalogue and Technical Specifications.

II. ADVERTISEMENT FOR BID

Item No.

1. Advertisement for Bids, Second Page, second paragraph, sentence beginning with "Bid Deadline...", **CHANGE** to read in it's entirety as follows:
"Bid Deadline: Sealed bids must be received on or before **2:30 P.M. on Tuesday, July 20, 2010.** Sealed Bids will be received only at: Contracting Services, Facilities Management, Building #439, Door "E", Reception Counter, University of California, Santa Barbara, Santa Barbara, California 93106-1030."

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

III SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Item No.

1. Number 4, **CHANGE** to read in it's entirety as follows:
"Bids will be received on or before the Bid Deadline: **2:30 P.M., Tuesday, July 20, 2010** and only at: Contracting Services, Facilities Management, Building #439, Door "E", Reception Counter, University of California, Santa Barbara, Santa Barbara, California 93106-1030."

IV SPECIFICATIONS

Item No.

1. Table of Contents, **ADD**, "Section 01560, Temporary Stormwater Pollution Prevention Construction Sites Less Than One Acre, pages 1-13".

Item No.

2. Section 01500, Construction Facilities and Temporary Controls, **REPLACE** in it's entirety with attached Revised Section 01500, Construction Facilities and Temporary Controls, Revised per Addendum One, 4 pages

Item No.

3. **ADD** attached Section 01560, Temporary Stormwater Pollution Prevention Construction Sites Less Than One Acre. 13 pages.

V CONSTRUCTION TASK CATALOG

Item No.

1. General Requirements, 01000, page 01-1, **REPLACE** with attached Page 01-1R.

Item No.

2. Site Work, 02000, page 02-1, **REPLACE** with attached Page 02-1R.

END OF ADDENDUM NO. ONE

REVISED SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1. GENERAL

1.01 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

- A. The drawings show, if applicable, existing above and below grade structures, drainage lines, storm drains, sewers, water, gas, electrical, hot water, and other utilities which are known to University.
- B. Locate all know existing installations before proceeding with construction operations which may cause damage to such installations. Existing installations shall be kept in service where possible and damage to them shall be repaired with no adjustment of Contract Sum.
- C. If any other structures or utilities are encountered, request University's Representative to provide direction on how to proceed with the Work.
- D. If any structure or utility is damaged, take appropriate action to ensure the safety of persons and property.

1.02 INTERRUPTION OF BUILDING SERVICES

- A. Obtain University's approval at least 3 days prior to any service shutdown or cutover. Do not interrupt mechanical and electrical services to the building or Campus facilities except at such times as will cause the least inconvenience to the University and only with the approval of the University Representative.

1.03 TRENCHING AND EXCAVATION

- A. General Protection: Pursuant to Labor Code Sections 6705 and 6707, Contractor shall include in its base bid all costs incident to the provision of adequate sheeting, shoring, bracing or equivalent method for the protection of life and limb, which shall conform to the applicable Federal and State Safety Orders.
- B. Before beginning any excavation five feet or more in depth, Contractor shall submit to University's Representative a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during excavation in conformance with the California Construction Safety Orders and Title 24 of the California Code of Regulations (CCR). If the detailed plan varies from such shoring system standards, it shall be prepared by a registered civil or structural engineer whose name and registration number shall be indicated on the drawing. If a dispute arises as to whether the plan must be prepared by a registered civil or structural engineer, University's Representative's determination of the matter shall be final and conclusive on Contractor. The cost of required engineering services shall be borne by Contractor and shall be deemed to have been included in the amount bid for the Work as stated in the Agreement.

- C. Comply with State of California Construction Safety Orders, Article 6 – Excavations, trenches earthwork, whether or not the excavation, trench, or earthwork is five feet or more in depth.

1.04 CONTROL OF AIRBORNE CONTAMINANTS

- A. This section is applicable when any of the following tasks are performed in occupied existing buildings and/or where the project will impact occupied existing buildings.
 - 1. Tasks that include chemical mixing on site, including but not limited to epoxy coatings.
 - 2. Tasks that include spray application.
 - 3. Welding and soldering tasks.
 - 4. Tasks that include sanding and grinding.
 - 5. Tasks that generate visible emissions.
 - 6. Tasks that generate fugitive dust, chemical vapors, aerosols, fumes and/or other airborne contaminants.

- B. Contractor shall develop detailed work plan(s) for each applicable task. Work plan shall be submitted to the University Representative for review at a minimum of five working days before applicable task is scheduled to commence. Each work plan shall document:
 - 1. Work sequence.
 - 2. Work area limits of task.
 - 3. Negative Pressure Containment (NPC) details including isolation of the work area from building's Heating Ventilation Air Condition (HVAC) systems.
 - 4. Waste transport and disposal procedures.
 - 5. Material Safety Data Sheets (MSDS) for applicable products.
 - 6. Applicable training of workers.
 - 7. Applicable engineering controls (example: ventilation).
 - 8. Applicable Personal Protective Equipment (PPE) for workers.
 - 9. Acceptable airborne contaminant levels in and adjacent to the work area.
 - 10. Exposure monitoring plan for
 - a. Workers performing tasks.
 - b. Migration of airborne contaminants from work area.
 - 11. Housekeeping procedures.
 - 12. Work area clearance standards.

- C. Task shall not commence until University Representative has:
 - 1. Reviewed work plan and authorized in writing that the task may proceed.

2. Inspected NPC.
- D. Contractor shall install, operate and maintain Negative Pressure Containment(s) (NPC) as needed to control fugitive dust, chemical vapors, aerosols, fumes and other airborne contaminants generate by applicable task. NPC(s) shall be designed and built to:
1. Separate the project air space from the building.
 2. Ensure that the campus population and research are protected from air borne contaminants.
 3. Provide adequate ventilation for the work space.
- E. Negative Pressure Containment (NPC): NPC shall meet at a minimum the following specifications.
1. Maintain negative pressure relative to outside pressure throughout the project.
 2. Achieve at least 6 Air Changes per Hour (ACH) and/or a minimum of -0.02 column inches of water pressure differential, relative to outside pressure.
 3. Differential/Negative pressure shall be documented throughout the project by manometric measurements.
 4. Adequate number of exhaust machine(s) shall be provided, operated and maintained by Contractor to establish a NPC that achieves the required total exhaust in Cubic Feet per Minute (CFM) for 6 ACH as calculated by:
 - a. Total Exhaust CFM = $\frac{6 \text{ ACH} \times \text{Space Volume (Length}' \times \text{Width}' \times \text{Height}')}{60}$
 5. If dust/fibers/aerosols are generated by the project, the exhaust machines shall be equipped with HEPA filters.
 6. Critical barriers shall be placed over all the openings to the NPC. Air from the NPC shall be exhausted to the exterior of the building. Typical critical barriers shall consist of 6 mil fire resistant poly sheeting.
 7. NPC exhaust shall be done in a way that ensures it will not reenter the building, adjacent buildings or become a hazard to individuals.
 8. NPC shall encompass the work area limits.
- F. University Representative may independently monitor airborne contaminant levels.
1. University monitoring results will take precedent over those of the Contractor's.
- G. If University Representative and/or Contactor monitoring documents that airborne contaminant levels have exceeded those indicated by the work plan and/or applicable regulatory standards, the Contractor, at no cost to the University, shall:
1. Stop work and institute corrective measures to bring airborne contaminant levels within acceptable limits.

2. Resume work only after receiving written approval from the University Representative.
- H. University may independently document that clearance standards, indicated by work plan and/or applicable regulatory standards, have been meet.
- I. Contractor shall maintain and operate NPC(s) until applicable clearance standards are met and documented to the satisfaction of the University Representative.
1. Applicable clearance shall be those established by the work plan or applicable regulation.
 2. The Contractor, if requested by University Representative, shall:
 - a. Allow University Representative to independently conduct clearance testing.
- J. The NPC(s) shall remain in operation until written permission, from the University Representative, is given to the contractor for removal.

END OF SECTION

SECTION 01560

TEMPORARY STORMWATER POLLUTION PREVENTION
CONSTRUCTION SITES LESS THAN ONE ACRE

PART 1 - GENERAL

1.01 GENERAL

- A. Stormdrains at the University of California Santa Barbara Campus discharge directly to creeks, the Goleta Slough, the Campus Lagoon, and the Pacific Ocean without treatment. Discharge of Pollutants or Contaminants (any substance, material, or waste other than uncontaminated stormwater) from this Project into the stormdrain system is strictly prohibited by the State Water Resources Control Board (SWRCB) and the Central Coast Regional Water Quality Control Board (RWQCB).
- B. The Contractor is responsible for stormwater quality within the Project site (which includes the staging area, material storage, waste management areas, construction areas, on-site parking, site entrances and exists, and anywhere Project construction disturbs soil) and the quality of stormwater leaving the Project site.
- C. The Contractor is required to prevent erosion of disturbed areas during construction and ensure pollutants, including sediment, do not leave the Project site, either water-borne, air-borne, on the tires of vehicles, or by spillage from offsite hauling of soils.
- D. The Contractor is responsible for properly managing all construction debris, solid and construction waste materials including litter, liquid waste including fluids from vehicles, construction materials, hazardous materials and waste, and sanitary and septic waste.
- E. The requirements in this section are intended to be implemented on a year-round basis, not just during the part of year when there is a high probability of a rain event which results in stormwater runoff. The requirements and practices discussed in this Section should be implemented at the appropriate level and in a proactive manner during all seasons while construction is ongoing.
- F. The following terms and their definitions will be used throughout this Section.
 - 1. Best Management Practices (BMPs) – The term BMP is used to describe the controls and activities used to prevent stormwater pollution.
 - 2. BMP Site Map – A map typically 11"x17" including, but not limited to, the following: entire construction site, site perimeter, adjacent roadways, all existing and proposed stormdrains on and near the site, site entrances/exits, building footprint, construction trailer, topography including slope, all current BMPs, NOI, and the location of the Questionnaire or Stormwater Pollution Prevention Plan (SWPPP).
 - 3. Contaminants or Pollutants – Any substance, material, or waste other than uncontaminated stormwater, including, but not limited to materials such as acids, adhesives, asphalts, concrete compounds, curing compounds, detergents, fertilizers, glues, lime, paints, pesticides and herbicides, petroleum products, plaster, roofing tar, solvents, wood preservatives, soil

- and any materials that may be detrimental if released to the environment.
4. Contractor – The term "Contractor" refers to the person or firm responsible for performing the work and is identified as such in the Agreement. The Contractor may use subcontractors, and the subcontractors may use sub-subcontractors to perform parts of the work. However, the Agreement is between the University and the Contractor, and the Contractor alone is responsible for completing the Project.
 5. Final Stabilization – Final stabilization is achieved when all construction activities are complete, all disturbed soil areas have been properly stabilized, all stormwater regulations have been achieved, and a uniform vegetative cover with 70 percent coverage has been established.
 6. General Permit - National Pollutant Discharge Elimination System (NPDES) General Permit For Storm Water Discharges Associated with Construction Activity Water Quality Order 00-08-DWQ, Waste Discharge Requirements Order No. 99-08 DWQ (National Pollution Discharge Elimination System (NPDES) Permit No. CAS000002), Resolution No. 2001-046, Modification of Water Quality Order 99-08, State Water Resources Control Board, and any amendments or revisions of these permits or orders.
 7. Hazardous Materials – Materials such as paints, solvents, petroleum products, pesticides, wood preservatives, treated wood, acids, roofing tar, batteries, Fluorescent lights, light ballasts, etc.
 8. Maximum Extent Practicable (MEP) – Less-effective treatment or activities may not be substituted when it is practicable to provide more effective treatment or activities.
 9. Notice of Intent (NOI) – Document that must be submitted to the State of California to obtain coverage under the General Permit and be permitted to develop property one acre or larger.
 10. Notice of Termination (NOT) – Document that must be submitted to the State of California once the Project is complete and has achieved Final Stabilization, which certifies that all State and local requirements have been met in accordance with Special Provisions for Construction Activity, C.7, of the General Permit.
 11. Post-Construction BMPs – Permanent features designed to minimize pollutant discharges, including sediment, from the site after construction has been completed. These features; such as bioswales, rain gardens, roof drains connected to landscaping, permeable pavement, etc.; will be installed and maintained by the Contractor during the construction of the Project until the Project has achieved Final Stabilization.
 12. Project or Project site – All areas including the staging area, material storage, waste management areas, construction areas, on-site parking, site entrances and exits, and anywhere Project construction disturbs soil.
 13. Questionnaire - UCSB Construction Stormwater Quality Questionnaire for Site Less than 1 Acre.
 14. Storm drain System - Stormwater conduits, stormdrain inlets and other stormdrain structures, street gutters, channels, watercourses, creeks, the Goleta Slough, the Campus Lagoon, and the Pacific Ocean.
 15. Stormwater Pollution Prevention Plan (SWPPP) Sites greater than or equal to

one acre – A living document that is site specific and created by the Contractor that specifies Best Management Practices that will prevent construction pollutants from contacting stormwater and with the intent of keeping all products of erosion from moving off site into receiving waters. The SWPPP will be written to comply with all requirements of the State Water Resources Control Board (SWRCB) National Pollution Discharge Elimination System (NPDES) General Permit for Construction Stormwater Discharges (General Permit), and will be modified throughout the life of the Project, as needed, to maintain compliance with the General Permit.

1.02 RELATED SECTIONS

- A. Section 01010, "Summary of Work".

1.03 GENERAL CONTRACTOR SCOPE

- A. Provide all material, labor, and equipment, for installation, implementation, and maintenance of all stormwater quality control measures. This work includes the following:
 - 1. Complying with applicable standards and regulations per Paragraph 1.04 REGULATIONS AND STANDARDS.
 - 2. Furnishing, placing, and installing effective measures for preventing erosion and runoff of soil, silts, gravel, hazardous chemicals, all construction materials including wastes, or other materials prohibited by the Central Coast RWQCB from leaving the site and/or entering the stormwater drainage system.
 - 3. Management of onsite construction materials and waste in such a manner as to prevent said materials and waste from contacting stormwater or wash water and running off site and/or into the stormdrain system.
- B. Contractor shall have stormdrain pollution prevention measures in place and follow this Specification at all times. It is the responsibility of the Contractor to be prepared for a rain event, and to be aware of weather predictions. The University is not responsible for informing the Contractor of rain predictions.
- C. Contractor shall not allow any unauthorized non-stormwater to enter the stormdrain system or leave the construction site. Non-stormwater includes domestic supply water used onsite to wash painting and drywall equipment, tools, equipment, or vehicles.
- D. Sanitary sewer discharge regulations are intended to provide protection of the sanitary sewer system and Goleta Sanitary District (GSD) and Goleta West Sanitary District's (GWSD) wastewater treatment plants. In this Section, "sanitary sewer" shall include any sanitary sewer manhole, clean-out, side sewer or other connection to the GSD and GWSD wastewater treatment plants.
- E. Sanitary sewer blockage will likely result in a back-up and overflow to the stormdrain system. The Contractor shall immediately notify the University's Representative if there is a clogged sanitary sewer.

1.04 REGULATIONS AND STANDARDS

- A. Contractor shall comply with the following applicable regulations:

1. Clean Water Act, United States Environmental Protection Agency.
 2. The Porter-Cologne Clean Water Act, State of California.
 3. Central Coast Basin (Region 3) Water Quality Control Plan (Basin Plan).
 4. National Pollutant Discharge Elimination System (NPDES) General Permit For Storm Water Discharges Associated with Construction Activity (General Permit) Water Quality Order 00-08-DWQ, Waste Discharge Requirements Order No. 99-08 DWQ (National Pollution Discharge Elimination System (NPDES) Permit No. CAS000002), Resolution No. 2001-046, Modification of Water Quality Order 99-08, State Water Resources Control Board, and any amendments or revisions of these permits or orders. These orders are referred to as the General Permit.
- B. Contractor shall comply with the following standards and guidelines on stormwater pollution prevention:
1. University of California, Santa Barbara BMP Handbook
 2. California Stormwater Quality Association Handbooks – Construction, Municipal, Industrial and Commercial, and New Development and Redevelopment. These documents can be viewed and downloaded from the UCSB Environmental Health & Safety website, or at <http://www.cabmphandbooks.com/>.
 3. Caltrans Storm Water Quality Handbooks - This document can be viewed and downloaded from the UCSB Environmental Health & Safety website, or at <http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm>.

1.05 SUBMITTALS

- A. When the entire construction Project, including the staging area, material storage, waste management areas, construction areas, onsite parking, site entrances and exists, and anywhere Project construction disturbs soil, is less than 1 acre and is not part of a common plan of development, the Contractor shall comply with UCSB Construction Stormwater Quality Questionnaire for Site Less than 1 Acre (Questionnaire) which is available as Information available to bidders.
1. Submit the Questionnaire to the University's Representative for review 14 calendar days prior to scheduled implementation. At the completion of the review, a meeting will be conducted by the University's Representative and the Contractor to discuss and agree upon the implementation of the Questionnaire.
 2. No work shall begin until the Questionnaire has been approved by the University's Representative and the Questionnaire has been implemented.
 3. The Contractor shall bear all cost of design, installation, and maintenance of all stormwater quality control measures.
 4. The Contractor shall submit written reports of inspections and maintenance. Submit all completed inspection sheets from the previous week, to the University's Representative on the first day of each week. Written reports include:
 - a. Pre-rain event inspections.
 - b. Post-rain event inspections.

- c. Weekly inspections.
- d. Maintenance inspections.

1.06 Environmental Enforcement

The SWRCB and the RWQCB have the authority to enforce, through codified regulations, any portions of this Section that if not implemented may violate applicable regulations. Agency enforcement may include but is not limited to: citations, orders to abate, bills for cleanup costs and administration, civil suits, and/or criminal charges. Regulating agencies will cite UCSB for all violations which will be the Contractor's responsibility to correct, pay any fines issued, and remedy all violations as needed. The University's Representative may stop all construction activities as deemed necessary until such violations are remedied.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Provide products and materials as indicated in the Questionnaire/SWPPP, including Activity and Best Management Practice sheets and Drawings.
- B. Where product or material requirements are not specified in the Questionnaire/SWPPP, comply with other applicable sections of the Specifications and obtain approval of the University's Representative.

PART 3 - EXECUTION

3.01 GENERAL

- A. The Contractor will write and implement the Questionnaire/SWPPP and include a BMP Site Map and written description of pollution prevention methods. The intent of this requirement is to ensure Contractor compliance with applicable regulations for the discharge of stormwater from the Project. The Contractor will choose the best available performance-based technology and methods to prevent stormwater pollution from construction activities to the Maximum Extent Practicable (MEP). The method(s) chosen shall be appropriate for each specific site condition.
- B. The Contractor will implement the Questionnaire/SWPPP once it has been reviewed and approved by the University's Representative. Construction activities including clearing and grading will not begin until the Questionnaire/SWPPP has been implemented.
- C. The University's Representative and the Contractor will meet to discuss and agree upon implementation of the Questionnaire/SWPPP.
- D. The Contractor is required to maintain a standby crew for emergency work at all times during the rainy season, October 1 through May 1. Necessary materials shall be available on the Project site and stockpiled at convenient locations to facilitate rapid construction of temporary devices or to repair any damaged stormwater quality control measures when rain is imminent.

3.02 IMPLEMENTATION

A. Stormwater Quality Control Measures

Comply with all requirements and stormwater quality control measures of the Questionnaire/SWPPP including, but not limited to, the following approved BMPs

referenced in the UCSB BMP Handbook. This list is not all inclusive and the Contractor should refer to the resources listed in Paragraph 1.04 REGULATIONS AND STANDARDS of this Section for additional information. The Contractor will consult the University's Representative before implementing a BMP that is not included in the UCSB BMP Handbook. The Contractor is required to, at a minimum, implement the following applicable BMPs. The Contractor may implement equivalent BMPs as long as the University's Representative approves. The Contractor is required to include BMP specification sheets for all BMPs that are not currently listed in the UCSB BMP Handbook.

1. Best Management Practices

a. Erosion Control (EC)

Provide a description of erosion control measures, including a time schedule, to be implemented during construction to minimize erosion on disturbed areas of the Project site, and identify the controls on the BMP Site Map. Areas requiring erosion control measures are exposed soil, such as soil piles, bare soil, sloped soil, and any area of disturbed soil. All inactive soil disturbed areas on the Project site and some active areas that are not experiencing high traffic, including relatively flat areas, must be protected from erosion. Both erosion and sediment control practices are designed to be implemented as an integrated system of pollution control. Without erosion controls, sediment controls are easily overwhelmed and will not prevent pollution. Preserve existing vegetation where feasible, limit disturbance of existing vegetation, and stabilize and revegetate disturbed areas as soon as possible after grading or construction. Stabilize exposed soil to the Maximum Extent Practicable (MEP) throughout the duration of the Project.

1. The Contractor is required to implement the following applicable BMPs, or equivalent BMPs with the approval of the University's Representative:

- EC – 1 Scheduling of Activities
- EC – 2 Preserving Existing Vegetation
- EC – 3 Temporary Soil Stabilization: Erosion Control Blanket

b. Temporary Sediment Control (TSC)

Provide a description of temporary sediment control measures that will be used on the Project site, and identify the controls on the BMP Site Map. Temporary sediment control measures generally involve intercepting sediment laden runoff, slow the flow of stormwater, and cause suspended sediment particles to drop out of suspension to ensure contaminants do not leave the Project site and enter the waters of the United States. An example of temporary sediment control measures include stormdrain inlet protection and site perimeter controls. Do not use sand bags near the Project site perimeter or near stormdrain inlets. Install sediment control BMPs at appropriate locations along the site perimeter and at all operational inlets to the stormdrain system. All new and existing roadways, curbs, and gutters must be protected from sediment-laden runoff, are considered as perimeters of the site, and will need perimeter controls installed. Sediment control BMPs should be installed and maintained according to specifications. Ensure that adequate erosion

control, sediment control, and soil stabilization BMPs are available onsite throughout the life of the Project.

1. The Contractor is required to implement, at a minimum, at least one of the following applicable perimeter control BMPs, or equivalent BMPs with the approval of the University's Representative:

TSC – 1 Cut Back Curb (Perimeter Control)

TSC – 2 Fiber Roll (Perimeter Control)

TSC – 3 Gravel Bag Berm (Perimeter Control)

2. The Contractor is required to implement the following applicable BMPs, or equivalent BMPs with the approval of the University's Representative:

TSC – 4 Stormdrain Inlet Protection (Secondary Control)

TSC – 5 Slope BMP: Fiber Roll or Gravel Bag

c. Tracking Control (TC)

All new and existing roadways, curbs, and gutters must be protected from sediment-laden runoff, are considered as perimeters of the site, and will need to be swept and vacuumed daily to ensure sediment and pollutants from construction activities are not leaving the site and potentially entering the stormdrain system. Identify and clearly mark one or two locations where vehicles will enter and exit the construction site and focus stabilizing measures at these locations. Install and maintain a stabilized entrance at all Project site entrances and exits to prevent tracking of mud and sediment off site. Vacuum and sweep sidewalks, roadways, site entrance/exit, curb, and gutter daily. Do not use kick brooms or sweeper attachments. Dispose of sweeper waste at an approved disposal facility. If construction parking is permitted on the Project site, then the area needs to be properly maintained and free of tracking and trash.

1. The Contractor is required to implement the following applicable BMPs, or equivalent BMPs with the approval of the University's Representative:

TC – 1 Stabilized Construction Entrance: Rumble Strips

TC – 2 Sweeping and Vacuuming

d. Wind Erosion Control (WEC)

Contractor shall use best available dust suppression equipment and methods to control dust so that the dust does not cause discomfort or nuisance to occupants of the Project site neighboring property. Contractor shall control dust suppression water so that it is effective in controlling dust, but does not leave the Project site or enter the stormdrain system. Contractor shall describe their dust suppression water management methods in the Questionnaire/SWPPP

1. The Contractor is required to implement the following applicable BMP, or equivalent BMPs with the approval of the University's Representative:

WEC – 1 Dust Control

e. Non-Stormwater Management (NSM)

Non-stormwater discharges include a wide variety of sources, including

improper dumping, spills, or leakage from storage tanks or transfer areas. Eliminate all unauthorized non-stormwater discharges to the Maximum Extent Practicable. Assign a qualified person the responsibility for ensuring that no materials other than stormwater, free of all contaminants, are discharged. Include the name, contact information, and qualifications of said person in the Questionnaire/SWPPP.

All workers on the Project site must be adequately trained on non-stormwater management procedures and be in compliance with procedures such as the following at all times:

- Washing in designated, contained areas only.
 - Eliminating discharges to the stormdrain system by infiltrating the wash water on site.
 - All washing activities must be approved by the University's Representative if there is a potential to discharge to the stormdrain system or for discharge to leave the Project site.
 - Do not wash paved areas.
 - Route water line flushing and water from water line repair to landscaped areas.
 - Avoid dewatering discharges by using water for dust control or allow to infiltrate onsite.
 - Unauthorized non-stormwater cannot be discharged without obtaining a permit from the Central Coast RWQCB.
 - Send vehicles/equipment offsite to be cleaned, fuelled, and repaired as much as possible. If it cannot be avoided, the Contractor is required to follow the practices described in NSM-3 Vehicle and Equipment Practices.
 - Inspect the site regularly for evidence of illicit connections, illegal dumping, or discharges.
 - Discharges of stormwater and non-stormwater exposed to concrete during curing and finishing may have a high pH and may contain chemicals, metals, and fines. Properly maintain all chemicals and wastes related to concrete curing and finishing as outlined in NSM-5 Concrete Curing and NSM-6 Concrete Finishing.
 - Prevent the discharge of pollutants from paving operations by following the practices described in NSM-7 Paving and Grinding Operations.
 - Minimize use of hazardous materials onsite. Store and dispose of all materials properly. Do not allow hazardous materials to come in contact with stormwater which could run off site and pollute the stormdrain system.
1. The Contractor is required to implement the following applicable BMPs, or equivalent BMPs with the approval of the University's Representative:
- NSM – 1 Water Conservation
 - NSM – 2 Dewatering Operations
 - NSM – 3 Vehicle and Equipment Practices

- NSM – 4 Illicit Connection/Illegal Discharge Detection
- NSM – 5 Concrete Curing
- NSM – 6 Concrete Finishing
- NSM – 7 Paving and Grinding
- NSM – 8 Potable Water/Irrigation
- NSM – 9 Material Use

f. Waste Management (WM)

The Contractor is required to prevent the discharge of pollutants to stormwater from solid or liquid wastes that will be generated at the Project site. Dumpsters or disposal containers of sufficient size, number, complete with no holes or damage where waste could leak out, are watertight, and have proper covering will be provided and properly maintained by the Contractor. Littering on the Project site is prohibited. If necessary, the Contractor may provide and maintain trash receptacles at locations where workers congregate for lunch and breaks, as long as the trash receptacles have no holes or breaks where waste could leak out, are watertight, are properly covered, and are properly maintained. Construction debris and litter from work areas within the construction limits of the Project site shall be collected and placed in watertight dumpster at the end of every work day. Provide convenient, well-maintained, and properly located toilet facilities. All workers on the Project site must be adequately trained on proper material use, storage, and waste disposal. The Contractor is required to implement a comprehensive set of waste-management practices for hazardous or toxic materials including storage, handling, inventory, and clean-up procedures.

All workers on the Project site must be adequately trained on waster management procedures and be in compliance with procedures such as the following at all times:

- Temporary material storage should be covered, have secondary containment, and be located away from vehicular traffic, the Project perimeter, and stormdrains.
- The Contractor shall provide and properly maintain an adequate number of watertight, crack free, covered containers for all trash and waste related to the construction Project. Collect construction trash daily throughout the Project and from around the perimeter of the site.
- Store dry and wet concrete materials under cover, in secondary containment, away from drainage areas and the Project perimeter. Concrete washout is only permitted in a designated and properly maintained concrete washout bin. Concrete is not allowed to be dumped or spilled anywhere onsite except in the concrete washout bin.
- Temporary sanitary facilities should be located away from watercourses, stormdrain inlets, the Project site perimeter, and traffic circulation. If there is a risk of tipping over or being blown over, the temporary sanitary facility should be secured by stakes or ties to prevent overturning. Wastewater should never be discharged or

buried within or anywhere around the Project site.

- Locate stockpiles on a permeable surface a minimum of 50 feet away from concentrated flows of stormwater, stormdrain inlets, and the Project site perimeter. Do not place stockpiles on an impermeable surface. Completely cover all stockpiles with a tarp or some type of cover; anchor the cover to ensure the stockpile is completely covered at all times.
- Spills of oil, petroleum products, substances listed under 40 CFR Parts 11, 117, and 302, and sanitary wastes should be contained and cleaned up immediately. Practice spill prevention procedures at all times including proper material handling and storage. Provide stockpiles of cleanup materials at key locations throughout the Project site.
- 1. The Contractor is required to implement the following applicable BMPs, or equivalent BMPs with the approval of the University's Representative:
 - WM – 1 Material Delivery and Storage
 - WM – 2 Trash Containment
 - WM – 3 Temporary Concrete Washout and Waste Management
 - WM – 4 Sanitary Waste Management
 - WM – 5 Stockpile Management
 - WM – 6 Spill Prevention and Control
 - WM – 7 Hazardous Waste Management
 - WM – 8 Contaminated Soil Management

B. Monitoring and Maintenance

Throughout the life of the Project and especially during the rainy season, all protective devices shall be in place at the end of each working day including those protective devices removed during the day's activities. Please note: no protective devices shall be removed during a rain event.

1. Do not move or modify stormwater quality control devices without the approval of the University's Representative.
2. All removable protective devices indicated on the Questionnaire/SWPPP shall be in place at the end of each day and especially any time rain is predicted in the Santa Barbara area.
3. After a rain event, manage and repair all stormwater quality control devices to ensure they are in good working condition. Equipment, materials, and workers must be available for rapid response to failures and emergencies. All corrective maintenance to BMPs shall be performed as soon as possible, depending upon worker safety.

C. Water Main and Sanitary Sewer Line Break Contingency Plan

If working on or near a water main line or sanitary sewer line, the Contractor shall have a written emergency response plan that states procedures for responding to a break and release of supply water or waste water to the stormdrain system. The Contractor shall meet the following requirements:

1. Water Main Work

- a. Determine the direction of water flow if the main were to break.
 - b. Divert water from entering the storm drain system and contain when possible.
 - c. If there is a water main break, pump the water that is collected or diverted to a sanitary sewer, based on the approval of the University Representative.
 - d. Put in place, before digging, sediment control structures upstream of drain inlets and at drain inlets.
 - e. If a break occurs contact the University's Representative or inspector of record immediately. Include in the Plan the phone number of the University's Representative.
2. Sanitary Sewer Line Work
- a. Determine where the sewage will flow if the work could cause a blockage.
 - b. Contain any sewage spill from entering the storm drain system.
 - c. If a sewage blockage occurs, pump it to a sanitary sewer, and do not allow it to flow into the stormdrain system.
 - d. If a sewage blockage or spill occurs contact the University's Representative or inspector of record immediately. Include in the Plan the phone number of the University's Representative contact.
3. Excavation Work
- This Paragraph applies to Contractors that excavate in the vicinity of sanitary sewer lines and cause or discover a sewage spill, leak or blockage.
- a. Immediately notify the University's Representative. Include in the Plan the phone number of the University's Representative.
- D. Good Housekeeping Practices
- The Contractor shall implement the following applicable good housekeeping practices:
1. Store materials that have the potential to be transported to the stormdrain system by stormwater runoff or spillage away from areas of heavy traffic and under cover in a contained area or in sealed waterproof containers.
 2. Use tarps on the ground to collect fallen debris or splatters that could contribute to stormwater pollution.
 3. Secure opened bags of powdered materials (if any) that could contribute to stormwater pollution and visible dust emissions.
 4. Pick up litter, construction debris, and other waste generated by Project activities daily from the Project site and adjacent areas, including the sidewalk area, gutter, street pavement, and stormdrains impacted by the Project. All wastes shall be stored in watertight covered containers, disposed of, or recycled immediately.
 5. Clean sidewalks, driveways, or other paved areas within and around the construction site to eliminate or prevent mud-tracking conditions. Dispose of sweepings in a place that will not pollute the stormdrain system. If wash-water is used in the interior of the site ensure it does not leave the site perimeter or enter a stormdrain inlet. The discharge of wash-water to the stormdrain system is prohibited.

6. Inspect vehicles and equipment arriving on-site for leaking fluids, and promptly repair leaking vehicles and equipment. Use drip pans to catch leaks until repairs are made.
 7. Avoid spills by handling materials carefully. Keep a stockpile of appropriate spill clean-up materials, such as rags or absorbent materials, readily accessible on site. Clean up all spills of materials brought on site for Project activities.
 8. Train employees regularly on good housekeeping practices and procedures. Assign responsibility to specific employees for inspecting good housekeeping and responding to spills.
- E. Post-Construction Stormwater Run-Off Control Measures
1. All permanent structural and nonstructural control measures that are planned for the Project to control pollutants in stormwater discharges after construction is completed shall be delineated on a post-construction BMP Site Map. Post-construction BMPs include, but are not limited to:
 - a. Minimization of land disturbance.
 - b. Minimization of impervious surfaces.
 - c. Treatment of stormwater run-off using infiltration.
 - d. Water detention/retention, bioswales, or rain gardens.
 - e. Bio-filter BMPs.
 - f. Efficient irrigation systems.
 - g. Ensuring that interior building drains and trash enclosures are tied to the sanitary sewer system, and not the stormdrain system.
 - h. Appropriately designed and constructed energy dissipation devices.
 - i. Ensuring that roof drains are directed to rain gardens or landscaped areas, not the stormdrain system.
 - j. Use permeable pavement and permeable surfaces where possible.
 2. Post construction BMPs must be consistent with all University's and local post-construction stormwater management requirements, policies, and guidelines.
 3. Contractor shall refer to construction drawings for post-construction BMPs and include them in the SWPPP and on the post-construction BMP Site Map.
- F. Personnel Training
1. The Contractor shall train its employees working on the site on the requirements contained in this Section. Training should be both formal and informal, occur on an ongoing basis when it is appropriate and convenient, and should include training/workshops offered by the SWRCB, RWQCB, and other locally recognized agencies or professional organizations.
 2. The Contractor shall document this training in writing. The University's Representative for the site will request to see the training materials and records at the onset of work. All training records will be included in the SWPPP.
 3. The Contractor shall inform all subcontractors (if any) of the water pollution prevention requirements contained in this specification and include appropriate subcontract provisions to ensure that these requirements are

met.

3.03 Final Stabilization

- A. All disturbed areas of the construction site must be stabilized before the Project is deemed complete. Final Stabilization for the purposes of submitting a NOT is satisfied when all disturbing soil activities are completed, all construction materials and waste have been disposed of properly, the site is in compliance with all stormwater regulations, and a uniform vegetative cover with 70 percent coverage has been established.
- B. When construction is complete, the Project site has achieved Final Stabilization, all construction materials and waste have been disposed of properly, the site is in compliance with all stormwater regulations, and the Project is deemed complete by the University's Representative, submit the completed Notice of Termination (NOT) form to the University's Representative. The NOT will be signed by the University's Representative.
- C. When construction is complete, the Project site has achieved Final Stabilization, all construction materials and waste have been disposed of properly, the site is in compliance with all stormwater regulations, and the Project is deemed complete by the University's Representative, submit the completed SWPPP with all necessary documents including but not limited to inspections, annual certifications, SWPPP amendments, training certificates, schedules, qualifications, BMP Site Maps, NOI, and NOT to the University's Representative.
- D. When construction is complete, the Project site has achieved Final Stabilization, all construction materials and waste have been disposed of properly, the site is in compliance with all stormwater regulations, and the Project is deemed complete by the University's Representative, if the stormwater protections are no longer required and upon obtaining approval from the University's Representative and the University's Representative, remove the protections and restore the site or structure to the required condition.

END OF SECTION 01560



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01000 General Requirements

01350 Labor/Wage Rates (01000)

Note: For tasks not included in the Construction Task Catalog® and as directed by the Owner only.

01352 Wage Rates (01350)

Note: Wage rates include base rate, fringe and an allowance for payroll taxes, worker's compensation, unemployment insurance, etc.

01352-0001 Rates For Services (01352)

01352-0002	DAY Demolition Worker Complete	Note: Rate shall use general prevailing wage determination for the craft of Laborer and shall be based on a standard, straight time eight hour shift; including applicable travel and/or subsistence payment (Labor Code Sections 1773.1 and 1773.9). Includes but is not limited to project management, supervision, customary tools of trade, equipment needed to perform: 1. Typical non-hazardous demolition activities done in compliance with local, state and Federal codes. 2. Submittal of close out documentation as a digitally signed PDF. Close out documentation shall include: a. Work Certifications b. Daily Job Logs 3. Cal/OSHA notifications as required. The University shall supply: 1. Documentation of asbestos and/or Pb content of building components. 2. On-site storage location for contractor's equipment. Equipment Included but not limited to customary tools of trade/craft.	575.00
01352-0003	DAY Abatement Removal Worker Complete	Note: Rate shall use general prevailing wage determination for the craft of asbestos and lead abatement (laborer) and shall be based on a standard, straight time eight hour shift; including applicable travel and/or subsistence payment (Labor Code Sections 1773.1 and 1773.9). Includes but is not limited to project management, supervision, customary tools of trade, equipment, PPE, personal air monitoring needed to perform: 1. Typical abatement activities done in compliance with CCR Title 8, Section 1529 Asbestos a. Class I abatement including work and construction in/of a Class I negative pressure enclosure b. Class II abatement including work and construction in/of a Class II negative pressure enclosure 2. Typical lead related construction demolition task done in compliance with CCR Title 8, 1532 Lead. 3. Clean Demolition of non-structural building components to support repair of water damaged materials. Work may include handling of building materials with micro biological growth. 4. Loading of waste. 5. Submittal of close out documentation as a digitally signed PDF. Close out documentation shall include: a. Work Certifications b. Daily Job Logs c. Personnel air sample reports 6. Includes contractor assist. 7. Cal/OSHA notifications as required The University shall supply: 1. APCD Notification when applicable 2. Final visual and air clearance where applicable 3. Documentation of asbestos and/or Pb content of building components being removed. 4. On-site storage location for contractor's equipment. Equipment Included but not limited to customary tools of trade/craft e.g. PPE for work environment, HEPA vacuums, HEPA equipped negative air machines, 6 mil poly sheeting for NPEs, tools, ladders, electronic manometer with tape.	775.00
01352-0004	DAY Abatement Removal Worker TSI Complete	Note: Rate shall use general prevailing wage determination for the craft of Hazardous Material Handler Mechanic and shall be based on a standard, straight time eight hour shift; including applicable travel and/or subsistence payment (Labor Code Sections 1773.1 and 1773.9). Includes but is not limited to project management, supervision, customary tools of trade, equipment, PPE, personal air monitoring needed to perform: 1. Typical abatement activities done in compliance with CCR Title 8, Section 1529 Asbestos a. Class I abatement including work and construction in/of a Class I negative pressure enclosure 2. Submittal of close out documentation as a digitally signed PDF. Close out documentation shall include: a. Work Certifications b. Daily Job Logs c. Personnel air sample reports 6. Includes contractor assist. 3. Cal/OSHA notifications as required. The University shall supply: 1. APCD Notification when applicable 2. Final visual and air clearance where applicable 3. Documentation of asbestos and/or Pb content of building components being removed. 4. On-site storage location for contractor's equipment. Equipment Included but not limited to customary tools of trade/craft e.g. PPE for work environment, HEPA vacuums, HEPA equipped negative air machines, 6 mil poly sheeting for NPEs, tools, ladders, electronic manometer with tape.	675.00

END OF SECTION 01



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02000 Site Work

02110 Demolition (02000)

02116 Hazardous Material (02110)

Note: Asbestos, lead or contaminated soils

02116-0001 Hazardous Material Hauling And Disposal (02116)

02116-0002	EA	Friable Asbestos Containing Hazardous Waste per Container	400.00
		Note: Includes transport, packaging and solidification of floor tile mastic to Landfill. (Contractor Delivered)	
		02MOD-1054 Add Per Each Container, Disposal Company Delivered	800.00
		02MOD-1056 Current California B.O.E disposal fee, Add Per Ton	19.98
02116-0003	CY	Non Friable Non-Hazardous Asbestos Containing Waste.....	10.84
		Note: Includes transport, packaging, and all regulatory and landfill requirements and solidification of floor tile mastic to Landfill.	
		02MOD-1055 Hauling Per Load For Loads Under 20 CY, Add Per Each Load	135.00
		02MOD-1057 Daily Rental For Loads Under 20 CY, Add Per Day	3.00
02116-0004	CY	Non-hazardous Construction/Architectural Debris	7.20
		Note: Includes transport, packaging, and all regulatory and landfill requirements to Landfill.	
		02MOD-1055 Hauling Per Load For Loads Under 20 CY, Add Per Each Load	135.00
		02MOD-1057 Daily Rental For Loads Under 20 CY, Add Per Day	3.00

END OF SECTION 02