

PMC-EF2a

(20102)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION**



RECIPIENT:NREL

STATE: CO

PROJECT TITLE : Denver West Parkway/Marriott Blvd. Intersection Improvements; NREL Tracking No. 09-044

Funding Opportunity Announcement Number **Procurement Instrument Number** **NEPA Control Number** **CID Number**
 NREL-09-044A 0

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

- | | |
|------------------------|---|
| DOE/EA-1440 | Final Site-Site Wide Environmental Assessment of the National Renewable Energy Laboratory's (NREL) South Table Mountain Complex (February 2003) |
| DOE/EA-1440-S-I | Final Supplement to Final Site-Wide Environmental Assessment of the National Renewable Energy Laboratory's (NREL) South Table Mountain Complex (May 2008) |
| B1.32 | Traffic flow adjustments to existing roads at DOE sites (including , but not limited to, stop sign or traffic light installation, adjusting direction of traffic flow, and adding turn lanes). Road adjustments such as widening or realignment are not included. |

Rational for determination:

In 2003, a NEPA determination was signed for the Site-Wide Environmental Assessment of the National Renewable Energy Laboratory's (NREL) South Table Mountain Complex (STMC) DOE/EA-1440. In 2008, a NEPA determination was signed for the tiered Site-Wide Supplemental I (DOE/EA-1440-S-I), supported by the 2008 NREL South Table Mountain Traffic Mitigation Action Plan and NREL South Table Mountain Traffic Impact Study. DOE/EA-1440-S-I and Traffic Mitigation Action Plan identified adding lanes and signalized lights to intersections to mitigate traffic impacts. This NEPA determination includes design and construction of the Denver West Parkway intersection. This location is located at the Denver West Parkway and Denver West Marriott Boulevard intersection Lakewood, CO 8040. This proposed project is to develop, design, and construct a larger Denver West Parkway and Denver West Marriott Boulevard intersection. The project would be divided into two stages with multiple tasks:

Stage I - Site Preparation (Contract 1):

- Coordinate and negotiate land acquisitions for Right of Way widening with Marriott, DWMD and Patricia Stevinson.
- Provide design and consultants for the project.
- Coordinate, file all documentation and received approvals with all jurisdictions (City of Lakewood, Jefferson County, DWMD, RTD and CDOT).
- Coordinate, file all documentation and received approvals with all utility entities.
- Locate all existing utilities in both future and existing Right of Ways in both horizontal and vertical directions.
- Provide weekly updates to NREL Project Manager.

Stage II – Construction (Contract 2):

Currently, the estimated area of impact would be ~15,000 square feet. The conceptual design has a 12-ft wide right turn lane added to the intersection of east bound traffic on Denver West Parkway transitioning onto Denver West Marriott Blvd. A pedestrian walk-way would also be included (5-ft wide) and the length of the turn lane from ~120 to 220-ft of lane with ~80 to 100-ft of taper area (transitioning from 1 lane to 2 lanes). Some landscaping including trees may be removed, and lighted signals, signs, and/or utility boxes may also need to be relocated. The construction phase of this project is estimated to begin in late May to early June lasting four to six months.

- Competitively bid the project in a public forum.
- Coordinate all construction related activities.
- Follow all local and state applicable codes.
- Provide safety plan for all work on this project.
- All work done under this project to be Davis Bacon Wages with certified payroll provide as backup for payment.
- Provide Construction Schedule of the project with timely updates as the project progresses.
- Provide NREL PM and NREL EHS to do routine site visit and observations.
- Provide weekly updates to NREL Project Manager.

In general, the Work covered under these subcontracts would include, but is not limited to:

- a. General Requirements
- b. Design (Final and Construction Documents)
- c. Construction Administration Services
- d. Construction of the roadway and utilities.
- e. All acquisitions and approvals.

Archeological/Cultural Resources/ Threatened/Endangered

Given the history of the existing urban setting of the intersection there are no concerns for Archeological, Cultural Resources, Threatened and Endangered species. More detailed analysis can be found in DOE/EA-1440-S-I.

Noise

There would be noise typical of construction equipment, such as grader, paving machine, dump truck and pickup trucks during construction. Work would be conducted during daylight hours.

Construction related noise would consist of a short-term increase in ambient noise levels. Impacts would vary with the phase of construction and occur intermittently. Construction activities would comply with applicable noise ordinances. More detailed analysis can be found in DOE/EA-1440-S-I.

Safety and Security

NREL and all contractors would follow all federal, state, local safety and security regulations.

The subcontractor would be responsible for coordinating all scheduling, questions, problems or operational matters with the NREL Project Manager. The subcontractor would designate a single point of contact that would be responsible for coordinating activities with the NREL Project Manager. All activities that require interruption of existing services or operations i.e. electrical power, gas, sewer, water, interior traffic etc. would be scheduled with the NREL Project Manager at least 5 days in advance.

1. Subcontractor Safety Plan - The subcontractor shall submit a site specific safety plan that is appropriate for the size of the project and the hazard level expected. This plan must be approved by the NREL EHS Office prior to the start of work. Guidelines for preparation of the safety plan are found in NREL's Construction Safety Program. Required elements of the Contractor Safety Plan include:

- NREL Construction Safety Policy - Safety and Health requirements specific to NREL are included in this policy, which is available from the NREL Safety and Health Section.
- All portions of 29 CFR 1910, Occupation Safety and Health Standards for General Industry and 29 CFR 1926, Safety and Health Regulations for construction.
- Job-site Inspections - Representatives of DOE, NREL and/or OSHA may perform inspections. Inspectors have the authority to stop work if safe work practices are not being utilized.
- Emergency Reporting - All emergencies, including the need for emergency medical services, will be reported by calling the NREL emergency number 1234.
- Accident Reporting - All bodily injury, property damage incidents, and near misses shall be reported to NREL within 24 hrs. A written report (e.g., First Report of Injury) is required. This does not relieve construction subcontractors of OSHA or insurance carrier reporting requirements.
- Exit Access - A clear path of at least 44" shall be maintained to all exits.
- Electrical work shall comply with the National Electric Code, OSHA, and NREL's Electrical Safety Program.
- Personnel Protective Equipment will be required as appropriate for the work being performed. At minimum, approved safety glasses, hard hats and appropriate safety shoes are required at all times.

2. EHS Construction Contractor Safe Work Permit - This Permit provides the authorization basis for construction work to begin. The Permit shall be available and posted at the job site. The subcontractor shall abide by the terms and conditions specified in this Permit.

3. Hazardous Materials List - A list of all hazardous materials used on the job shall be submitted to the ES&S Office for approval before the start of work. If requested, the subcontractor shall also supply information that documents the contractor's Hazard Communication program. MSDS's shall be available on the job site. The subcontractor shall notify NREL's project manager prior to generating hazardous waste.

4. Pre-construction Orientation - A pre-construction orientation shall be conducted prior to the start of construction.

5. DOE Poster - The DOE Rights & Responsibilities Poster shall be posted at the job site where possible. This poster will be issued by NREL during the Pre-construction Orientation.

6. NREL Hot Work Permit - This Permit represents the authorization basis for conducting hot work. Hot work is defined as activity involving the use of cutting torches, welders, open flame devices, spark producing grinders, or any work that could result in fire potential.

7. Confined Space Permit - All work requiring entry into a confined space (e.g. manholes, electrical vaults, tanks, vessels, etc.) shall be conducted in accordance with the requirements set forth in NREL's Confined Space Program. The subcontractor shall provide the required equipment and qualified, properly trained personnel.

8. Lockout/Tagout - All work on systems or equipment that may contain hazardous energy shall be conducted in

accordance with the NREL LO/TO program and comply with OSHA LO/TO requirements.

9. Excavation Permit - An Excavation Permit is required for trenching, excavating, digging, floor cutting or related activities that could result in damage to existing utilities or injury to workers.

10. Fire System Outage Permit - This Permit is necessary for work that will require disabling or impairing a fire detection, alarm or suppression systems.

11. Electrical Work – NREL strongly discourages energized electrical work. However, it may be performed in certain circumstances under very specific conditions.

This proposal comprises mitigation measures identified in the 2008 NREL South Table Mountain Traffic Mitigation Action Plan in support of DOE/EA-1440-S-1. Additionally, CX B1.32 can be used to adjust traffic flows at existing intersections.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____


NEPA Compliance Officer

Date: 2/23/10

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____

Field Office Manager

Date: _____