



December 21, 2017

Mr. Russ Federico
MARANA UNIFIED SCHOOL DISTRICT
11249 W. Grier Road
Marana, Arizona 85653

**Re: MARANA UNIFIED SCHOOL DISTRICT OPERATIONS CENTER 12-INCH
WATER MAIN DESIGN
WESTLAND PROPOSAL NO. 2017P00425**

Dear Mr. Federico:

WestLand Resources, Inc. (WestLand), is pleased to provide this proposal for the engineering design and permitting of the Marana Unified School District (MUSD) Operations Center 12-inch water main. Per discussions with MUSD, this portion of the project will include approximately 5,100 feet of 12-inch water main. The new main line will begin by connecting to the existing Marana Water Department (MWD) 12-inch line located just south of the intersection of Interstate 10 (I-10) eastbound frontage road and Tiffany Loop. From the connection point, the new pipeline will travel northwest along the western edge of the I-10 southbound frontage road until reaching the future site of the new MUSD Operations Center, where it will stub out to the west to tie into the future on-site services. At completion of construction, it is assumed that pipeline will be owned and operated by MWD.

To provide a comprehensive set of constructible plans and associated permitting support, WestLand proposes the following tasks:

TASK 1 – PROJECT MANAGEMENT AND COORDINATION

This task includes management functions for all activities of the design portion of the project. The project manager (PM) will be the established point of contact for the project. This task includes allocation of resources, oversight, budget tracking, and meetings and coordination with subconsultants, stakeholders, and the applicable agencies for the project. This task assumes three progress meetings, two agency meetings, and two stakeholder meetings.

WestLand proposes to provide Task 1 – Project Management and Coordination on a time-and-materials basis in accordance with the attached billing rates. Reimbursable expenses and subconsultant fees will be marked up 15%. The estimated budget of \$11,000.

TASK 2 – ENVIRONMENTAL SERVICES

As the alignment is located within the ADOT ROW, a ROW (encroachment) permit from ADOT's Southcentral District Office will be required. In accordance with Arizona Department of

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ENGINEERING AND ENVIRONMENTAL CONSULTANTS

4001 E. Paradise Falls Drive • Tucson, Arizona 85712 • 520•206•9585

Transportation (ADOT) guidelines, the five areas that must be addressed for this project are: the Endangered Species Act (ESA), National Historic Preservation Act, (NHPA), Clean Water Act (CWA), Arizona Native Plant Law (ANPL), and Clean Air Act (CAA).

WestLand proposes to complete the necessary environmental investigations as outlined in the following scope of work in a timely manner and provide MUSD with the Environmental Self-Certification for submittal to ADOT, documenting that the required resource studies have been completed and the project is in compliance with state and federal environmental guidelines.

Based upon our understanding of the project and current ADOT guidelines for ROW permits, we propose to complete the sub-tasks outlined below:

Traffic Control Plan. Under our blanket permit for conducting non-invasive surveys within ADOT's right of way, WestLand must submit a project-specific traffic control plan for review and approval prior to initiating the work. Approval of the traffic control plan can take up to two weeks depending on the workload of ADOT's permit technician.

Endangered Species Act Compliance. A Phase I BE will be conducted to support the application for the ROW Permit. Agencies that will be contacted in the process of completing the BE include the Arizona Game & Fish Department (AGFD) and the U.S. Fish & Wildlife Service (USFWS). Our fee proposal assumes no coordination with USFWS will be required.

Clean Water Act Compliance: Sections 401, 402, and 404. Should the project impact waters of the U.S. the applicant must document compliance with Section 404 and 401 of the CWA. Concurrent with the biological survey, WestLand will evaluate the presence of potential jurisdictional waters. Our cost proposal and scope of work anticipates that no such waters will be present and no further coordination with the Army Corps of Engineers is required.

Arizona Native Plant Law Native Plant Survey. WestLand will conduct a site visit to inventory native plants in the ROW that are deemed salvageable by the Arizona Department of Agricultural (ADA). A WestLand field technician will survey the portion of the ADOT ROW that occurs within the project boundary and document the findings in a technical memorandum that will be submitted for the project file. Based on the survey results, we will develop a Notice of Intent to Clear Land form for submittal to the ADA.

Clean Air Act Compliance. WestLand does not propose to conduct any work related to CAA compliance. Our cost assumes that no cement structures or pavement will be removed, so there is no need for asbestos or lead-based paint testing. We understand the Client will implement best management practices to reduce dust emissions during construction to meet federal, state, and local requirements.

Cultural Resources. WestLand will conduct a Class I archival research and a Class III pedestrian survey of the project area, and will record up to two archaeological sites within the project corridor.

It is anticipated that a negative survey report will be sufficient, and that it will be reviewed by the Arizona State Land Department. The final report will be registered with the Arizona State Museum as required by WestLand's Arizona Antiquities Act permit.

Upon completion of the previous tasks, WestLand will develop an Environmental Self Certification and cover letter that will be submitted to the Client for review and signature. When signing the Self Certification, the Client is agreeing to implement any mitigation measures identified in the cover letter for submittal to ADOT with the Encroachment Permit application. The resource reports will be submitted to ADOT if requested.

Storm Water Pollution Prevention Plan (SWPPP). As noted, the alignment is located within the ADOT ROW, therefore a SWPPP will be required to be prepared for and approved by ADOT. WestLand proposes prepare and provide a hard copy to serve as the site copy and will provide a complete digital copy of a SWPPP to MUSD for the Project. This SWPPP will be in compliance with the Arizona Pollutant Discharge Elimination System (AZPDES) Construction General Permit (CGP-2013), ADOT's Municipal Separate Storm Sewer System Permit (MS4 Permit), as well as all other state and local SWPPP requirements.

WestLand proposes to provide the services in Task 2 – Environmental Services for a lump-sum fee of \$15,250. Reimbursable expenses as described in the scope of work are included in the lump sum amount.

TASK 3 –SURVEY SERVICES

WestLand proposes to provide topographic, control, culture, and utility surveying for design of the new water line along the described stretch of the I-10 frontage road, including a portion of Tiffany Loop Road, and a Marana school parcel at the north end. As part of this survey, the I-10 right-of-way shall be shown from record drawings and available monuments representing the right-of-way. The east boundary line of the Marana school parcel shall be shown from available record information.

The survey includes recovering necessary horizontal and vertical control points. As part of the task, Westland shall survey existing cultural features and utility crossings which may affect the design route. These include features such as fences, walls, visible utility and drainage crossings, and other improvements the aerial topography will not pick up. WestLand proposes to incorporate utility research/bluestake and coordination with existing utility companies to assist with the alignment options. This task does not include private utility location in the event utility companies do not respond to the design bluestake request.

Westland shall set ground control and have the site flown for a 1"=40', 1' contour interval topo and color imagery for the alignment for design purposes.

Westland will provide right-of-way linework from a combination of available record information and recovery of monuments set by ADOT representing the I-10 right-of-way. Research shall include

obtaining existing right-of-way documents, Road Proceedings, and deeds of adjoining properties for purposes of writing needed legal descriptions at the Marana parcel at the northern end of the design route. This proposal does not include a right-of-way survey.

WestLand proposes to provide the services in Task 3 – Survey Services for a lump sum fee of \$17,800. Reimbursable expenses as described in the scope of work are included in the lump sum amount.

TASK 4 – ENGINEERING DESIGN AND PERMITTING SERVICES

WestLand proposes to provide engineering design for approximately 5,100 linear feet of 12-inch water main along I-10 East Bound Frontage Road from Tiffany Loop to the Project site. The pipeline is assumed to be located within the shoulder of the Frontage Road. The design will include details regarding directional drilling installation of certain sections of the pipeline, due to the restricted corridor available for the pipeline. The design will also include a jack and bore underneath a wash tributary to the Santa Cruz River. It is assumed that the jack and bore will be located underneath the existing culvert crossing under the I-10 Frontage Road, therefore, no hydrologic analysis for scour will be performed. The design will be prepared according to Town of Marana specifications and details (latest edition), with required notes, aerial photos, and plan/profile view construction drawings. The design will be completed in compliance with ADOT requirements for design plans. The plans will be provided in 1"=40' scale. The plans will also conform to the Pima County Department of Environmental Quality (PDEQ), and American Water Works Association (AWWA) Standards.

It is assumed that the plans will be submitted to MUSD for review at the 30%, 90%, and Final Design stages. The expected plan set should include, at a minimum:

- Cover
- General Notes
- Plan and Profile
- Details
- Any required specifications will be provided on the plans

In addition to the plans and specifications, a design report will be prepared which shall include calculations, pipe sizing, demand requirements, system pressures, pipe alignment description, and other information pertinent to the successful permitting of the project. The final design report will comply with MWD and PDEQ requirements.

WestLand proposes to perform internal Quality Assurance and Quality Control (QA/QC) measures for all submittals to the Client during the design process. QA/QC staff will provide guidance on project methodology, criteria, review of project deliverables, and perform checks of all engineering calculations. QA/QC staff shall consist of senior level engineers experienced in pipeline design and construction methods. WestLand will incorporate into the design the latest in materials used by MWD.

As the new water main alignment will cross the alignment of an existing Pima County Regional Wastewater Reclamation Department (RWRD) sewer line, WestLand will prepare the RWRD review submittal package, in addition to holding a meeting with RWRD to coordinate approval of the Project. It is assumed that MUSD will provide payment for the RWRD review fees.

In addition to RWRD permitting, WestLand will provide preparation of PDEQ permitting documentation for the Project. It is assumed that MUSD will provide payment for the PDEQ review fees. WestLand will prepare all approval to construct (ATC) forms for MUSD to sign and submit to PDEQ.

WestLand proposes to provide the services in Task 4 – Engineering Design and Permitting Services for a lump sum fee of \$48,400. Reimbursable expenses as described in the scope of work are included in the lump sum amount.

Key Assumptions and Exclusions:

This scope does not include any revisions required by the client or regulatory agencies.

This proposal does not include bidding period or construction period services, such as completion of the Approval of Construction (AOC) permitting or the Engineer’s Certificate of Completion (ECC), which will be required for PDEQ approval of the project. These services may be provided with a separate proposal upon request.

A proposal to provide SWPPP inspection services to meet PDEQ’s and ADOT’s specific requirements can be provided at the client’s request.

Cost Summary

WestLand will provide the above scope of services per **Table 1**.

Table 1. Summary of Tasks and Fees.

Task	Fee	Billing
1. Project Management and Coordination	\$ 11,000	T&M
2. Environmental Services	\$ 15,250	LS
3. Survey Services	\$ 17,800	LS
4. Engineering Design and Permitting Services	\$ 48,400	LS
Total	\$ 92,450	

If you find the scope of services and costs described herein to be acceptable, we understand that you will issue a purchase order from MUSD, under existing State contract number ADOT14-068334.

This proposal is valid for ninety (90) days from the date of the proposal. WestLand reserves to modify the proposal following that timeframe.

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If you have any questions or require additional information, please do not hesitate to call.

Respectfully,
WestLand Resources, Inc.

A handwritten signature in blue ink, appearing to read "Erik Christenson".

Erik Christenson, P.E.
Project Manager

Attachment: Billing Rates

cc: Kara Festa, P.E., WestLand Resources, Inc.
Troy Belcher, P.E., WestLand Resources, Inc.