

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
ACTION AGENDA SUMMARY

DEPT: Public Works

BOARD AGENDA # *C-2

Urgent Routine

AGENDA DATE July 23, 2013

CEO Concurs with Recommendation YES NO
(Information Attached)

4/5 Vote Required YES NO

SUBJECT:

Approval of an Independent Contractor Services Agreement with Tesco Controls, Inc. to Provide a Supervisory Control and Data Acquisition (SCADA) System for the Salida Area

STAFF RECOMMENDATIONS:

1. Approve an Independent Contractor Services Agreement with Tesco Controls, Inc. to provide a Supervisory Control and Data Acquisition (SCADA) System for the Salida area.
2. Authorize the Public Works Director to sign the agreement.
3. Authorize the Public Works Director to sign future amendments during the life of the agreement and within the approved compensation limits.

FISCAL IMPACT:

The amount assigned to this agreement with Tesco Controls, Inc. to provide, install, and activate an operational SCADA system for five existing storm drain pump station sites in Salida is \$400,000. The SCADA system is funded through the Planning Salida Storm Drain - Developer Funds. The current balance of the Planning Salida Storm Drain fund is approximately \$909,000.

BOARD ACTION AS FOLLOWS:

No. 2013-376

On motion of Supervisor Withrow, Seconded by Supervisor O'Brien

and approved by the following vote,

Ayes: Supervisors: O'Brien, Withrow, Monteith, De Martini and Chairman Chiesa

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) X Approved as recommended

2) _____ Denied

3) _____ Approved as amended

4) _____ Other:

MOTION:



ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

Approval of an Independent Contractor Services Agreement with Tesco Controls, Inc. to Provide a Supervisory Control and Data Acquisition (SCADA) System for the Salida Area

DISCUSSION:

Currently, the County owns and maintains five storm drain pump stations within the community of Salida. The basins and pump stations were built by the surrounding residential and commercial developments in Salida. These pump stations are located adjacent to regional storm drain detention basins responsible for capturing all surface runoff during rain events from the surrounding roads.

The pump stations operate individually and are not connected to or managed by any common radio telemetry communication system. Consequently, Public Works maintenance staff has no way of knowing if or when the pump station systems are running, how long they are running or when pump malfunctions occur. Maintenance staff has to visit each site regularly during storm events to visually inspect the stations to assure proper system operation and to perform any needed maintenance. There have been instances in the past where pump stations malfunctioned and flooding occurred due to the fact that maintenance staff could not be immediately notified that a failure or malfunction was taking place. The SCADA system will alleviate the possibility of not knowing if pump stations are operating correctly.

The SCADA system will communicate with a computer system installed at the Public Works Morgan Road facility using radio telemetry communication. This computer system will be in constant contact with each pump station. Installing the SCADA System at each pump location will allow Public Works' maintenance staff constant contact so that they can monitor, track, and adjust the operations and activities of each pump station remotely from the Public Works Morgan Road facility. Using this centralized control system, maintenance staff can be immediately notified when failures occur and can also plan and track the maintenance and operations on the pump station facilities.

Public Works released a Request for Proposal in February 2013 for services to design, construct, integrate, and implement a SCADA System for five existing storm drain pump station sites in Salida.

On March 19, 2013, only one firm, Tesco Controls, Inc., submitted a proposal for County consideration. Public Works staff reviewed and evaluated the proposal. Based on the results of the following evaluation criteria, staff determined the proposal met all the requirements and guidelines and found Tesco Controls to be more than qualified and responsible to provide the desired services and equipment:

- Understanding of the work to be performed;
- Experience with similar work and technologies;
- Qualifications and availability of staff;
- Demonstration of technical ability; and,
- References.

Approval of an Independent Contractor Services Agreement with Tesco Controls, Inc. to Provide a Supervisory Control and Data Acquisition (SCADA) System for the Salida Area

The Independent Contractor Services Agreement will commence immediately upon execution with a not to exceed amount of \$400,000. Work on the project is anticipated to begin in August 2013 and be completed by November 2013.

POLICY ISSUES:

The recommended actions are consistent with the Board's priorities of providing A Safe Community, A Healthy Community and A Well Planned Infrastructure System by ensuring operational infrastructure is provided and maintained to alleviate the possibility of flooding during storm events.

STAFFING IMPACT:

There is no staffing impact associated with this item.

CONTACT PERSON:

Matt Machado, Public Works Director, (209) 525-4130

CB:la

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**AGREEMENT
FOR
INDEPENDENT CONTRACTOR SERVICES**

This Agreement for Independent Contractor Services (the "Agreement") is made and entered into by and between the County of Stanislaus ("County") and TESCO Controls, Inc., ("Contractor") as of July 23, 2013.

Recitals

WHEREAS, the County has a need for the purchase and installation of a Supervisory Control and Data Acquisition (SCADA) System to monitor five (5) storm drain pump stations in the Salida area; and

WHEREAS, the Contractor is specially trained, experienced and competent to perform and has agreed to provide such services;

NOW, THEREFORE, in consideration of the mutual promises, covenants, terms and conditions hereinafter contained, the parties hereby agree as follows:

Terms and Conditions

1. **Scope of Work**

1.1 The Contractor shall furnish to the County upon execution of this Agreement or receipt of the County's written authorization to proceed, those services and work set forth in **Exhibit A**, attached hereto and, by this reference, made a part hereof.

1.2 All documents, drawings and written work product prepared or produced by the Contractor under this Agreement, including without limitation electronic data files, are the property of the Contractor; provided, however, the County shall have the right to reproduce, publish and use all such work, or any part thereof, in any manner and for any purposes whatsoever and to authorize others to do so. If any such work is copyrightable, the Contractor may copyright the same, except that, as to any work which is copyrighted by the Contractor, the County reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, and use such work, or any part thereof, and to authorize others to do so.

1.3 Services and work provided by the Contractor at the County's request under this Agreement will be performed in a timely manner consistent with the requirements and standards established by applicable federal, state and County laws, ordinances, regulations and resolutions, and in accordance with a schedule of work set forth in Exhibit A. If there is no schedule, the hours and times for completion of said services and work are to be set by the Contractor; provided, however, that such

schedule is subject to review by and concurrence of the County.

2. Consideration

2.1 County shall pay Contractor as set forth in Exhibit A.

2.2 Except as expressly provided in Exhibit A of this Agreement, Contractor shall not be entitled to nor receive from County any additional consideration, compensation, salary, wages or other type of remuneration for services rendered under this Agreement. Specifically, Contractor shall not be entitled by virtue of this Agreement to consideration in the form of overtime, health insurance benefits, retirement benefits, disability retirement benefits, sick leave, vacation time, paid holidays or other paid leaves of absence of any type or kind whatsoever.

2.3 County will not withhold any Federal or State income taxes or Social Security tax from any payments made by County to Contractor under the terms and conditions of this Agreement. Payment of all taxes and other assessments on such sums is the sole responsibility of Contractor. County has no responsibility or liability for payment of Contractor's taxes or assessments.

2.4 Pursuant to Penal Code section 484b and to Business and Professions Code section 7108.5, the Contractor must apply all funds and progress payments received by the Contractor from the County for payment of services, labor, materials or equipment to pay for such services, labor, materials or equipment. Pursuant to Civil Code section 1479, the Contractor shall direct or otherwise manifest the Contractor's intention and desire that payments made by the Contractor to subcontractors, suppliers and materialmen shall be applied to retire and extinguish the debts or obligations resulting from the performance of this Agreement.

3. Term

3.1 The term of this Agreement shall be from the date of approval of this Agreement until completion of the agreed upon services unless sooner terminated as provided below or unless some other method or time of termination is listed in Exhibit A.

3.2 Should either party default in the performance of this Agreement or materially breach any of its provisions, the other party, at that party's option, may terminate this Agreement by giving written notification to the other party.

3.3 This Agreement shall terminate automatically on the occurrence of (a) bankruptcy or insolvency of either party, (b) sale of Contractor's business, (c) cancellation of insurance required under the terms of this Agreement, and (d) if, for any reason, Contractor ceases to be licensed or otherwise authorized to do business in the State of California, and the Contractor fails to remedy such defect or defects within thirty (30) days of receipt of notice of such defect or defects.

3.4 The County may terminate this agreement upon 30 days prior written notice to the Contractor. Termination of this Agreement shall not affect the County's obligation to pay for all fees earned and reasonable costs necessarily incurred by the Contractor as provided in Paragraph 2 herein, subject to any applicable setoffs.

4. Required Licenses, Certificates and Permits

Any licenses, certificates or permits required by the federal, state, county or municipal governments for Contractor to provide the services and work described in Exhibit A must be procured by Contractor and be valid at the time Contractor enters into this Agreement. Further, during the term of this Agreement, Contractor must maintain such licenses, certificates and permits in full force and effect. Licenses, certificates and permits may include but are not limited to driver's licenses, professional licenses or certificates and business licenses. Such licenses, certificates and permits will be procured and maintained in force by Contractor at no expense to the County.

5. Office Space, Supplies, Equipment, Etc.

Unless otherwise provided in Exhibit A, Contractor shall provide such office space, supplies, equipment, vehicles, reference materials and telephone service as is necessary for Contractor to provide the services identified in Exhibit A to this Agreement. County is not obligated to reimburse or pay Contractor for any expense or cost incurred by Contractor in procuring or maintaining such items. Responsibility for the costs and expenses incurred by Contractor in providing and maintaining such items is the sole responsibility and obligation of Contractor.

6. Insurance

6.1 Contractor shall take out, and maintain during the life of this Agreement, insurance policies with coverage at least as broad as follows:

6.1.1 General Liability. Comprehensive general liability insurance covering bodily injury, personal injury, property damage, products and completed operations with limits of no less than One Million Dollars (\$1,000,000) per incident or occurrence. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to any act or omission by Contractor under this Agreement or the general aggregate limit shall be twice the required occurrence limit.

6.1.2 Automobile Liability Insurance. If the Contractor or the Contractor's officers, employees, agents, representatives or subcontractors utilize a motor vehicle in performing any of the work or services under this Agreement, owned/non-owned automobile liability insurance providing combined single limits covering bodily injury, property damage and transportation related pollution liability with limits of no less than One Million Dollars (\$1,000,000) per incident or occurrence.

6.1.3 Workers' Compensation Insurance. Workers' Compensation insurance as required by the California Labor Code. In signing this contract, the Contractor certifies under section 1861 of the Labor Code that the Contractor is aware of the provisions of section 3700 of the Labor Code which requires every employer to be insured against liability for workmen's compensation or to undertake self-insurance in accordance with the provisions of that code, and that the Contractor will comply with such provisions before commencing the performance of the work of this Agreement.

6.2 Any deductibles, self-insured retentions or named insureds must be declared in writing and approved by County. At the option of the County, either: (a) the insurer shall reduce or eliminate such deductibles, self-insured retentions or named insureds, or (b) the Contractor shall provide a bond, cash, letter of credit, guaranty or other security satisfactory to the County guaranteeing payment of the self-insured retention or deductible and payment of any and all costs, losses, related investigations, claim administration and defense expenses. The County, in its sole discretion, may waive the requirement to reduce or eliminate deductibles or self-insured retentions, in which case, the Contractor agrees that it will be responsible for and pay any self-insured retention or deductible and will pay any and all costs, losses, related investigations, claim administration and defense expenses related to or arising out of the Contractor's defense and indemnification obligations as set forth in this Agreement.

6.3 The Contractor shall obtain a specific endorsement to all required insurance policies, except Workers' Compensation insurance and Professional Liability insurance, if any, naming the County and its officers, officials and employees as additional insureds regarding: (a) liability arising from or in connection with the performance or omission to perform any term or condition of this Agreement by or on behalf of the Contractor, including the insured's general supervision of its subcontractors; (b) services, products and completed operations of the Contractor; (c) premises owned, occupied or used by the Contractor; and (d) automobiles owned, leased, hired or borrowed by the Contractor. For Workers' Compensation insurance, the insurance carrier shall agree to waive all rights of subrogation against the County and its officers, officials and employees for losses arising from the performance of or the omission to perform any term or condition of this Agreement by the Contractor.

6.4 The Contractor's insurance coverage shall be primary insurance regarding the County and County's officers, officials and employees. Any insurance or self-insurance maintained by the County or County's officers, officials and employees shall be excess of the Contractor's insurance and shall not contribute with Contractor's insurance.

6.5 Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the County or its officers, officials, employees or volunteers.

6.6 The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

6.7 Each insurance policy required by this section shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party except after thirty (30) days' prior written notice has been given to County. The Contractor shall promptly notify, or cause the insurance carrier to promptly notify, the County of any change in the insurance policy or policies required under this Agreement, including, without limitation, any reduction in coverage or in limits of the required policy or policies.

6.8 Insurance shall be placed with California admitted insurers (licensed to do business in California) with a current rating by Best's Key Rating Guide acceptable to the County; provided, however, that if no California admitted insurance company provides the required insurance, it is acceptable to provide the required insurance through a United States domiciled carrier that meets the required Best's rating and that is listed on the current List of Eligible Surplus Line Insurers maintained by the California Department of Insurance. A Best's rating of at least A-VII shall be acceptable to the County; lesser ratings must be approved in writing by the County.

6.9 Contractor shall require that all of its subcontractors are subject to the insurance and indemnity requirements stated herein, or shall include all subcontractors as additional insureds under its insurance policies.

6.10 At least ten (10) days prior to the date the Contractor begins performance of its obligations under this Agreement, Contractor shall furnish County with certificates of insurance, and with original endorsements, showing coverage required by this Agreement, including, without limitation, those that verify coverage for subcontractors of the Contractor. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements shall be received and, in County's sole and absolute discretion, approved by County. County reserves the right to require complete copies of all required insurance policies and endorsements, at any time.

6.11 The limits of insurance described herein shall not limit the liability of the Contractor and Contractor's officers, employees, agents, representatives or subcontractors.

7. Defense and Indemnification

7.1 To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County and its agents, officers and employees from and against all claims, damages, losses, judgments, liabilities, expenses and other costs, including litigation costs and attorneys' fees, arising out of, resulting from, or in connection with the performance of this Agreement by the Contractor or Contractor's officers, employees, agents, representatives or subcontractors and resulting in or attributable to personal injury, death, or damage or destruction to tangible or intangible

property, including the loss of use; provided, however, such indemnification shall not extend to or cover loss, damage or expense arising from the sole negligence or willful misconduct of the County or its agents, officers and employees.

7.2 Contractor's obligation to defend, indemnify and hold the County and its agents, officers and employees harmless under the provisions of this paragraph is not limited to or restricted by any requirement in this Agreement for Contractor to procure and maintain a policy of insurance.

8. Status of Contractor

8.1 All acts of Contractor and its officers, employees, agents, representatives, subcontractors and all others acting on behalf of Contractor relating to the performance of this Agreement, shall be performed as independent contractors and not as agents, officers or employees of County. Contractor, by virtue of this Agreement, has no authority to bind or incur any obligation on behalf of County. Except as expressly provided in Exhibit A, Contractor has no authority or responsibility to exercise any rights or power vested in the County. No agent, officer or employee of the County is to be considered an employee of Contractor. It is understood by both Contractor and County that this Agreement shall not be construed or considered under any circumstances to create an employer-employee relationship or a joint venture.

8.2 At all times during the term of this Agreement, the Contractor and its officers, employees, agents, representatives or subcontractors are, and shall represent and conduct themselves as, independent contractors and not employees of County.

8.3 Contractor shall determine the method, details and means of performing the work and services to be provided by Contractor under this Agreement. Contractor shall be responsible to County only for the requirements and results specified in this Agreement and, except as expressly provided in this Agreement, shall not be subjected to County's control with respect to the physical action or activities of Contractor in fulfillment of this Agreement. Contractor has control over the manner and means of performing the services under this Agreement. Contractor is permitted to provide services to others during the same period service is provided to County under this Agreement. If necessary, Contractor has the responsibility for employing other persons or firms to assist Contractor in fulfilling the terms and obligations under this Agreement.

8.4 If in the performance of this Agreement any third persons are employed by Contractor, such persons shall be entirely and exclusively under the direction, supervision and control of Contractor. All terms of employment including hours, wages, working conditions, discipline, hiring and discharging or any other term of employment or requirements of law shall be determined by the Contractor.

8.5 It is understood and agreed that as an independent Contractor and not an employee of County, the Contractor and the Contractor's officers, employees, agents, representatives or subcontractors do not have any entitlement as a County employee, and do not have the right to act on behalf of the County in any capacity whatsoever as

an agent, or to bind the County to any obligation whatsoever.

8.6 It is further understood and agreed that Contractor must issue W-2 forms or other forms as required by law for income and employment tax purposes for all of Contractor's assigned personnel under the terms and conditions of this Agreement.

8.7 As an independent Contractor, Contractor hereby indemnifies and holds County harmless from any and all claims that may be made against County based upon any contention by any third party that an employer-employee relationship exists by reason of this Agreement.

9. Records and Audit

9.1 Contractor shall prepare and maintain all writings, documents and records prepared or compiled in connection with the performance of this Agreement for a minimum of four (4) years from the termination or completion of this Agreement. This includes any handwriting, typewriting, printing, photostatic, photographing and every other means of recording upon any tangible thing, any form of communication or representation including letters, words, pictures, sounds or symbols or any combination thereof.

9.2 Any authorized representative of County shall have access to any writings as defined above for the purposes of making audit, evaluation, examination, excerpts and transcripts during the period such records are to be maintained by Contractor. Further, County has the right at all reasonable times to audit, inspect or otherwise evaluate the work performed or being performed under this Agreement.

10. Confidentiality

The Contractor agrees to keep confidential all information obtained or learned during the course of furnishing services under this Agreement and to not disclose or reveal such information for any purpose not directly connected with the matter for which services are provided.

11. Nondiscrimination

During the performance of this Agreement, Contractor and its officers, employees, agents, representatives or subcontractors shall not unlawfully discriminate in violation of any federal, state or local law, rule or regulation against any employee, applicant for employment or person receiving services under this Agreement because of race, religion, color, national origin, ancestry, physical or mental disability, medical condition (including genetic characteristics), marital status, age, political affiliation, sex, or sexual orientation. Contractor and its officers, employees, agents, representatives or subcontractors shall comply with all applicable Federal, State and local laws and regulations related to non-discrimination and equal opportunity, including without limitation the County's nondiscrimination policy; the Fair Employment and Housing Act (Government Code sections 12900 et seq.); California Labor Code sections 1101, 1102

and 1102.1; the Federal Civil Rights Act of 1964 (P.L. 88-352), as amended; and all applicable regulations promulgated in the California Code of Regulations or the Code of Federal Regulations.

12. Assignment

This is an agreement for the services of Contractor. County has relied upon the skills, knowledge, experience and training of Contractor and the Contractor's firm, associates and employees as an inducement to enter into this Agreement. Contractor shall not assign or subcontract this Agreement without the express written consent of County. Further, Contractor shall not assign any monies due or to become due under this Agreement without the prior written consent of County.

13. Waiver of Default

Waiver of any default by either party to this Agreement shall not be deemed to be waiver of any subsequent default. Waiver or breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach, and shall not be construed to be a modification of the terms of this Agreement unless this Agreement is modified as provided below.

14. Notice

Any notice, communication, amendment, addition or deletion to this Agreement, including change of address of either party during the term of this Agreement, which Contractor or County shall be required or may desire to make shall be in writing and may be personally served or, alternatively, sent by prepaid first class mail to the respective parties as follows:

To County: County of Stanislaus
Department of Public Works
Attn: Chris Brady, Road Operations Manager
1716 Morgan Road
Modesto, CA 95358

To Contractor: TESCO Controls, Inc.
Attn: Shain Thomas, Sales Manager
8440 Florin Road
Sacramento, CA 95823

15. Conflicts

Contractor agrees that it has no interest and shall not acquire any interest direct or indirect which would conflict in any manner or degree with the performance of the work and services under this Agreement.

16. Severability

If any portion of this Agreement or application thereof to any person or circumstance shall be declared invalid by a court of competent jurisdiction or if it is found in contravention of any federal, state or county statute, ordinance or regulation the remaining provisions of this Agreement or the application thereof shall not be invalidated thereby and shall remain in full force and effect to the extent that the provisions of this Agreement are severable.

17. Amendment

This Agreement may be modified, amended, changed, added to or subtracted from by the mutual consent of the parties hereto if such amendment or change is in written form and executed with the same formalities as this Agreement and attached to the original Agreement to maintain continuity.

18. Entire Agreement

This Agreement supersedes any and all other agreements, either oral or in writing, between any of the parties herein with respect to the subject matter hereof and contains all the agreements between the parties with respect to such matter. Each party acknowledges that no representations, inducements, promises or agreements, oral or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that no other agreement, statement or promise not contained in this Agreement shall be valid or binding.

19. Advice of Attorney

Each party warrants and represents that in executing this Agreement, it has received independent legal advice from its attorneys or the opportunity to seek such advice.

20. Construction

Headings or captions to the provisions of this Agreement are solely for the convenience of the parties, are not part of this Agreement, and shall not be used to interpret or determine the validity of this Agreement. Any ambiguity in this Agreement shall not be construed against the drafter, but rather the terms and provisions hereof shall be given a reasonable interpretation as if both parties had in fact drafted this Agreement.

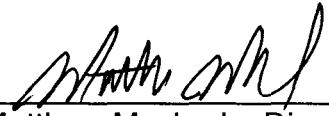
21. Governing Law and Venue


This Agreement shall be deemed to be made under, and shall be governed by and construed in accordance with, the laws of the State of California. Any action brought to enforce the terms or provisions of this Agreement shall have venue in the County of Stanislaus, State of California.

IN WITNESS WHEREOF, the parties or their duly authorized representatives have executed this Agreement on the day and year first hereinabove written.

COUNTY OF STANISLAUS

TESCO CONTROLS, INC.

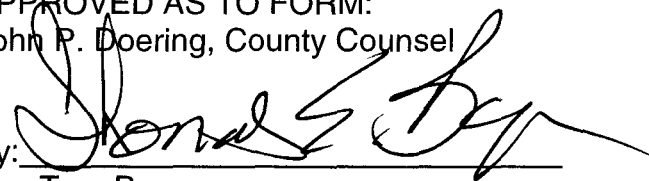
By: 
Matthew Machado, Director
Public Works Department

By: 
Shain Thomas
Sales Manager

"County"

"Contractor"

APPROVED AS TO FORM:
John P. Doering, County Counsel

By: 
Tom Boze
Deputy County Counsel

Board Resolution No. 2013-376

EXHIBIT A

A. SCOPE OF WORK

The Contractor shall provide services under this Agreement as outlined in the Contractor's project scope of work hereby attached to this Exhibit.

B. COMPENSATION

The Contractor shall be compensated for the services provided under this Agreement as follows:

1. Contractor will be compensated on a lump sum basis for each task as set forth in the proposal and scope of work dated March 18, 2013, attached hereto and, by this reference, made a part hereof. In addition to the aforementioned fees, Contractor will be reimbursed for the following expenses, plus any expenses agreed to by the parties as set forth in a Schedule of Rates attached hereto, that are reasonable, necessary and actually incurred by the Contractor in connection with the services:

- (a) Any filing fees, permit fees, or other fees paid or advanced by the Contractor.
- (b) Expenses, fees or charges for printing, reproduction or binding of documents at actual costs.

2. The County shall retain ten (10) percent of all periodic or progress payments made to the Contractor until completion and acceptance of all work tasks.

3. The parties hereto acknowledge the maximum amount to be paid by the County for services provided shall not exceed Four Hundred Thousand Dollars (\$400,000), including, without limitation, the cost of any subcontractors, consultants, experts or investigators retained by the Contractor to perform or to assist in the performance of its work under this Agreement.

Project Scope of Work

Scope of Work

This proposal shall include all necessary equipment, materials, and labor to conduct the work required of this project; and such work shall adhere to industry standards and practices (UL, NEMA, NEC, IEEE, Automation Standards, and the like). Additionally, all work performed shall be in accordance to owner's standards and requirements. TESCO will be providing all work and services required for a "turn-key" solution, which includes engineering assessment, engineered submittals/documentation, PLC programming, SCADA development programming, field installation, system integration, testing, startup, training, support and warranty.

Item	Qty.	Radio Telemetry Survey
1	Lot	Onsite Survey and Radio Communication Diagnostic Testing to include: <ul style="list-style-type: none"> • Field Engineering Services for onsite Radio Frequency (RF) testing of proposed nine (9) sites. • Test equipment setup. • Assess existing sites and installation details. • Acquire sufficient RF propagation data for analysis via diagnostic readings and RF testing. • Payload and message telemetry testing. • Performance testing for error-free data exchange. • Photographs of existing site conditions and surrounding affecting foliage, obstructions, and terrain. • Record site elevations. • Verify GPS coordinates, recording latitudes and longitudes of lift station sites and affected locations.
2	Lot	Radio System and Telemetry Study to include: <ul style="list-style-type: none"> • In-house compilation of findings, path studies, evaluation, and analysis. • Data entry of recorded data into diagnostic and modeling software. • Establish radio topology requirements for reliable communication links. • Engineering calculations for segment link trajectories, path measurements, fade margins, signal to noise ratios, and calculated RF signals. • Topographical overview generation. • Geographical RF propagation modeling. • Path and trajectory profile generation. • Recorded data, calculation results, engineering and networking analysis. • System design recommendations. • System equipment/component specifications. • Report Generation of compiled findings, test results, path profiles, trajectory studies, RF topology, radio system documentation, and recommendations.
3	Lot	Professional Services to include: <ul style="list-style-type: none"> • Project Management • Field Service Engineer / Specialist • Communications Engineer/Specialist • Network Engineer / Communication Systems Architect
Item	Qty.	SCADA Software Integration at Corporation Yard
4	Lot	Corporation Yard (SCADA Central) to include: <ul style="list-style-type: none"> • SCADA Computer Hardware and peripherals • TESCO NEMA Rated wall mount radio enclosure <ul style="list-style-type: none"> ◦ Panel disconnect 120VAC • Radio Components to include: <ul style="list-style-type: none"> ◦ In-line power filtering ◦ Radio Transceiver ◦ Radio Power Supply ◦ RF Feedline Pigtail ◦ RF Feedline Lightning Arrestor ◦ Antenna Feed Line Cable (Qty 5) Remote Access Laptop • Power Surge Protector • Miscellaneous din rail, terminals, nameplates and connectors
5	1	Omni Antenna (mast by others)
6	Lot	SCADA Software to include: <ul style="list-style-type: none"> • ClearSCADA Server License 5000 points • ClearCare Annual Support, 5000 points, One Year • (Qty 6) ViewX Remote Clients • Worksmart Report Software Suite • WIN911 PRO Alarm Software

Project Scope of Work

7	Lot	<p>Tesco Professional Services to include:</p> <ul style="list-style-type: none"> • Project Engineering <ul style="list-style-type: none"> ○ Engineered Drawings and Submittal Packages ○ Updated Technical Documentation ○ As-built Drawings ○ Operations and Maintenance Manuals • Manufacturing Services • SCADA Configuration services to include: <ul style="list-style-type: none"> ○ ClearSCADA Implementation and Configuration ○ WIN911 Alarm Software Configuration ○ Worksmart Report Integration Services • Field Service <ul style="list-style-type: none"> ○ Calibrations, point to point verification, testing, operational verification and start up of SCADA and radio telemetry system. • Training with County Personnel
Item	Qty:	<p>Remote Sites (Typical of the following sites: Bristol Glenn Storm Drain Basin, Wincanton Storm Drain Basin, South Pirrone Storm Drain Basin, North Pirrone Storm Drain Basin, Stoddard Storm Drain Basin)</p>
8	5	<p>Typical Remote Site Location to include:</p> <ul style="list-style-type: none"> • TESCO NEMA Rated Control Panel (Sized per individual site requirements) <ul style="list-style-type: none"> ○ TESCO 24-200 Metered Panel <ul style="list-style-type: none"> ▪ Provisions for utility metering, 480V ○ TESCO 24-000 Enclosure <ul style="list-style-type: none"> ▪ Main Disconnect ▪ Circuit Breakers (as required) ▪ Motor Starters as required • Tesco L2000™ Programmable Logic Controller <ul style="list-style-type: none"> ○ L2000 PLC ○ CPU w/ Ethernet Card ○ I/O Cards as Required ○ Power Supply ○ Small Operator Interface • Radio Components to include: <ul style="list-style-type: none"> ○ In-line power filtering ○ Radio Transceiver ○ Radio Power Supply ○ RF Feedline Pigtail ○ RF Feedline Lightning Arrestor ○ Antenna Feed Line Cable • Power Surge Protector • Motor Controls and Pilot Devices • Battery Backup System w/ Battery Check System • Generator Receptacle • GFCI receptacle • Internal Light w/ Switch • Heater w/ thermostat • Cooling fan w/ thermostat and louver kit • Miscellaneous din rail, terminals, nameplates and connectors
9	5	Reactive Air Level Monitoring System w/ Opti-Float backup
10	5	Yagi Directional Antenna w/ Cable, Connectors & Pigtails (mast by others)
11	Lot	<p>Tesco Professional Services to include:</p> <ul style="list-style-type: none"> • Project Engineering <ul style="list-style-type: none"> ○ Engineered Drawings and Submittal Packages ○ Updated Technical Documentation ○ As-built Drawings ○ Operations and Maintenance Manuals • Manufacturing Services • PLC Programming <ul style="list-style-type: none"> ○ Custom Programming for PLC • SCADA Configuration services to include: <ul style="list-style-type: none"> ○ ClearSCADA Implementation and Configuration • Field Service <ul style="list-style-type: none"> ○ Installation verification and start up of new L2000™ PLC equipment and controls ○ Calibrations, point to point verification, testing, operational verification and start up of radio telemetry system and controls. • Training with County Personnel

PRICE PROPOSAL

Schedule of Prices for Furnishing and Implementation of the SCADA System Project

ITEM DESCRIPTION TOTAL	
Radio Telemetry Survey	\$ INC.
Remote Site Hardware	\$ INC.
SCADA Hardware and Software	\$ INC.
Professional Integration Services	\$ INC.
Electrical Installation Services	\$ INC.
Insurance and Bonding	\$ INC.
Project Total	\$400,000.00

TESCO shall warranty all materials and integration on this project for a period of one (1) year from final approval. Additional professional service maintenance/integration work shall be incurred at the hourly rate as show in the Price Schedule.

Shain Thomas
Sales Manager

