Hales to Ellipane

REQUEST FOR INFOR	MATION					PROJEC	T No.	Arapaho Phase III	
RFI #14						Date:	Au	gust 18, 2004	
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Plano, Texas 75093 Guy Van Bulen do Daniel Filer						Andrew S	chneemann		
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Weekly Meeting Agenda

Date: Tuesday, August 17, 2004

Arapaho Road

Time 11:00 AM Location: Field Office

- I. Safety Issues
- II. Schedule
 - 1 Review Weekly Schedule
- III. Submittals
- IV. Old Business
- VI. Change Orders
- 1. HNTB requests pricing on temporary fence at D.W.U. water plant. A/W is in the process of getting price.
- VII. Miscellaneous
- 1. Has Temporary Construction Easement been secured with D.G.N. & O railroad for site grading purposes?
- 2. Paving removal discrepancy at "The Rink".
- 3. A/W requests to move our construction entrance at Surveyor Blvd. to be located at the intersection of the proposed new Arapaho Road & Surveyor Blvd.

ARAPAHO ROAD

8/17/2004

Archer Western Commissions

			Cu	irren							We				Following Week			Archer Western		
Activity Description	Prod	M	T				S/S		T	W			S/S		Τ	W	T	F	S/S	
7 totally 2 doorpaid.	1100	16	17	18	19	20	21	23	24	25	26	27	28	30	31	1	2	3	4	Equipment
TXU Conduit				Х	Х	X		Х	Х											S&J Electrical
Demo/Haul Storage Concrete					Х				X	X	Х									Stomper
Sewer/Water /Trailers				Х	Х	X														
Demo Trees/ Prep ROW		Х	Х	Χ	Х	Х		Х	Х	Х	Х	Χ		Х	Χ	Х	Х	Χ		
Orange Fence-60" water line		Х	Х	Χ	Х	Х														
Temp Fence at DWU plant								Х	Х	Х	Χ	Х								C.O. ?
Saw Cut Site & Streets		Х	Х	Х	Χ	Х		Χ	Х	Х										
Construction Entrances								Х	Х	Х										North Texas
Temp RR Crossings								Х	Х	Х	Χ	Χ								Lone Star
Filter Dam At Midway																				North Texas-T.C.E. ?
Box Culvert A & B	-													Χ	Х	Х	Х	Х		John Griffin
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Crew Size:																				

EXHIBIT "A"

Lying and situated in the Town of Addison, Dallas County, Texas, the Edward Cook Survey, Abstract No. 326 and being a part of Iceoplex Addition, an addition to the Town of Addison, according to the map or plat thereof recorded in Volume 95210, page 03012, Deed Records of Dallas County, Texas (D.R.D.C.T.) conveyed to Hard To The Net Hockey, L.L.C. by a Deed recorded in Volume 2004069, page 02089, D.R.D.C.T. and being more particularly described as follows:

BEGINNING at a 1/2-inch iron rod found at the intersection of the east right of way line of Midway Road (100 feet wide) with the south right of way line of the St. Louis & Southwestern Railroad for the northwest corner of said addition and being 195.00 feet, N 89° 41′ 00" W along said railroad right of way line from a 1/2-inch iron rod found;

THENCE S 89° 41' 00" E, along the south right of way line of said railroad, 15.00 feet;

THENCE S 00° 42′ 00" E, 11.74 feet to the beginning of a curve to the right having a radius of 1019.93 feet, a central angle of 12° 14′ 20″, and a chord that bears S 05° 25′ 10″ W, 217.45 feet;

THENCE Southwesterly along said curve, an arc distance of 217.87 feet;

THENCE S 11° 32' 20" W, a distance of 20.00 feet;

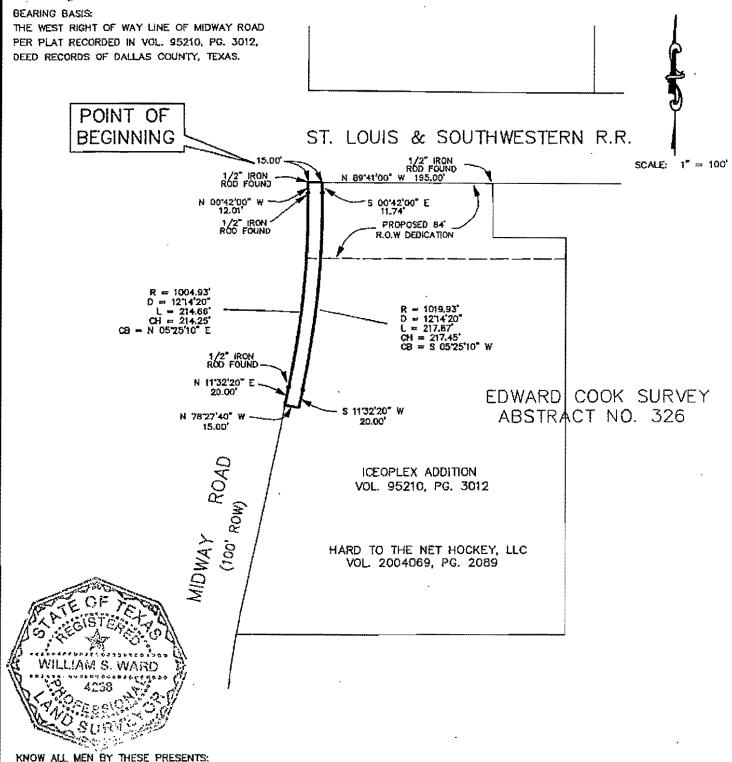
THENCE N 78° 27' 40" W, 15.00 feet to a point on the east right of way line of Midway Road;

THENCE N 11° 32′ 20″ E, along said east right of way line, 20.00 feet to a 1/2-inch rod found at the beginning of a curve to the left having a radius of 1004.93 feet, a central angle of 12° 14′ 20″, and a chord that bears N 05° 25′ 10″ E, 214.25 feet;

THENCE Northeasterly along said curving east right of way line an arc distance of 214.66 feet to a 1/2-inch iron rod found:

THENCE N 00° 42' 00" W, 12.01 feet to the place of beginning and containing 3,722.11 square feet of land, more or less.

WR#2041434.2



THAT I WILLIAM S. WARD, REGISTERED PROFESSIONAL LAND SURVEYOR DO HEREBY DECLARE THAT THIS PLAT IS THE RESULT OF A SURVEY MADE ON THE GROUND MY PERSONAL SUPERVISION ON MAY 17, 2004 AND ALL DIMENSIONS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

WARD, R.P.C.S./NO. 4238

EXHIBIT "A" TXU ELECTRIC DELIVERY CO. EASEMENT IN THE CITY OF DALLAS DALLAS COUNTY, TEXAS

PAGE 2 OF 2

T-485

P 001

Fax Cover

TXU Electric Delivery Project Management and Design Services 301 S. Harwood, 6 South Dallas, TX 75201

Date: 08.03.04	_
To: Steve Chutchian	
Company:	Fax: 972-450-2837
From: James Davis	Phone: 214-875-2380
Dept:	Fax: 214-875-2266
Re: Ice Rink Easem	ent
	se Reply Please Reply When Received
Steve	,
Included.	is the exhibit
drawing to be affi	
document and signatur	e page Can you
send me the docume	at you propose the
grantor to sign by	e-mail or tex?
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If any pages are not received, please call:

Number of pages (include cover page):

This communication (including any attachments) contains or may contain confidential information intended only for the addressee, and is subject to copyright protection. If you are not the intended recipient of this communication, or the employee or agent responsible for delivering it to the intended recipient, please be advised that any reading, dissemination, distribution, copying or use of this communication or its attachments is strictly prohibited. If you have received this communication in error, please notify the sender immediately by telephone at the direct dial number noted above, and return the original message to us at the above address via the U.S. mastal service.

5910 W. Plano Parkusy Satte 200 Plano, Texas 75093 (972) 661-5626 EAX (972) 661-5614 www.9nth.com

August 2, 2004

Mr. Jim Pierce Town of Addison 16801 Westgrove Drive Addison, TX 75001-9010

RE: SHOP DRAWING REVIEW AND PROJECT ADMINISTRATION - ARAPAHO PHASE 3 CONSTRUCTION PROJECT

Dear Mr. Pierce:

Enclosed for your review and signatures are two copies of a Consultant Professional Services Agreement for engineering services for the Arapaho Phase 3 Construction Project. Upon review of the Agreement, please sign and return one fully executed copy to, HNTB Corporation; 5910 West Plano Parkway, Suite 200; Plano, TX 75093.

If you have any questions or require any additional information, please feel free to call (972) 628-3116.

Thank you,

HNTB CORPORATION

Erica T Bourné Project Administrator

Enclosures

DATE SUBMITTED:

August 1, 2004 FOR COUNCIL MEETING: August 10, 2004

Council Agenda Item:

SUMMARY:

This item is for the approval of an Engineering Services Contract with HNTB Corporation, in an amount not to exceed \$55,964.00, for Construction Administration and Bridge Shop Drawing Review on Arapaho Road, Phase III, from Surveyor Blvd. to Addison Road.

FINANCIAL IMPACT:

Budgeted Amount: Not specifically budgeted

Cost: \$55,964,00

Source of Funds: Funds are available from the FY 2004 Bond Sale and from

unallocated Bond Fund Proceeds

BACKGROUND:

The third phase of the proposed Arapaho Road extension project extends from Surveyor Blvd. to Addison Road. Construction of this section of Arapaho Road will complete an east-west minor arterial roadway that is necessary to relieve traffic congestion on Belt Line Road. The firm of HNTB completed design of this phase of the project and will continue to perform inspection and general contract administration of the proposed roadway and drainage infrastructure. However, it was determined that certain shop drawing review and contract administration related to the proposed bridge construction should be handled by HNTB. Accordingly, a proposal was submitted that included the following items:

- 1. Management and Administration
- 2. Shop Drawing Review
- 3. Response to requests for Information by the Contractor
- 4. Site Visits

This agreement will permit an optimum level of inspection and construction administration of the bridge, roadway and drainage components of the project.

RECOMMENDATION:

It is recommended that Council authorize the City Manager to enter into a contract with HNTB Corporation, in an amount not to exceed \$55,964.00, for Construction Administration and Bridge Shop Drawing Review on Arapaho Road, Phase III, from Surveyor Blvd. to Addison Road.

AGREEMENT

THIS AGREEMENT is made by and between HNTB Corporation, hereinafter called "ENGINEER", and the Town of Addison, Texas, hereinafter called "OWNER."

WHEREAS, OWNER desires ENGINEER to perform certain work set forth in Section 2, Scope of Services.

WHEREAS, the ENGINEER has expressed a willingness to perform said services, hereinafter referred to only as "services", specified in said Scope of Services, and enumerated under Section 2 of this Agreement.

NOW, THEREFORE, all parties agree as follows:

SECTION 2. SCOPE OF SERVICES

The following Basic and Additional Services, when authorized in writing by a notice-to-proceed, shall be performed by the ENGINEER in accordance with the OWNER's requirements to provide shop drawing review and project administration during the construction of the Arapaho Road Phase 3 Bridge over Midway Road in Addison, Texas.

A Shop Drawing Review

ENGINEER will review the construction contractor's shop drawing submittals for compliance with and adherence to the plans, standard specifications, special provisions to the standard specifications, and special specifications (CONTRACT DOCUMENTS).

Sole responsibility for correctness of dimensions, details, quantities and safety during fabrication and erection shall remain with the construction contractor. Review of shop drawings, and similar submittals by ENGINEER shall not be construed as his approval of the methods, construction procedures nor facilities to be used in construction of this work.

ENGINEER will not review any temporary structures, including shoring and form work, for structural integrity. ENGINEER will not bear any responsibility for structural integrity of temporary structures including shoring and form work.

The shop drawing submittals will be limited to those specifically called for in the contract documents. The shop drawings required from the standard specifications, special provisions to the standard specifications, and special specifications are limited to the following sections:

SECTION BC - BRIDGE CONSTRUCTION SECTION SSH - STEEL STRUCTURE HANGERS

SECTION IB - INDUCTION BENDING OF STRUCTURAL MEMBERS SECTION BELF - BRIDGE EXTERIOR LIGHTING FIXTURES

Shop drawing submittals received by ENGINEER will consist of the

following number of copies:

PLANO, TX 75093

5910 W. PLANO PARKWAY, SUITE 200

972-661-5626

	* * *	3
	construction project personnel. The	will be received from OWNER's e reviewed shop drawing submittal will ruction project personnel for further
	written response detailing the resu will include a cover letter summ marked copies of the submitted m	ER's construction project personnel a lts of the review. The written response narizing the results of the review and naterial. A review stamp indicating the need to the first sheet of each packet of on of the stamp is shown below.
		NO EXCEPTIONS TAKEN MAKE CORRETIONS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS
Contractor is solely itechniques, sequent Exceptions taken ar	responsible for verifying dimensions, ces and procedures of construction	concept and intent of Contract Documents. for establishing fabrication processes, means, and for coordination of work of all trades. not authorize work resulting in contract cost der.
		BY:
		DATE:/
A たいけい としょう B	ENGINEERS PLANNERS	

ENGINEER will review the submittals and provide a response as quickly as possible; however, ENGINEER will have a minimum of 7 calendar days from the date when the submittal was received by ENGINEER to provide a response to OWNER's construction project personnel.

ENGINEER will log and track all shop drawing submittals. ENGINEER will provide a written status report of shop drawings in the review process for use during regular construction project meetings.

Submission of shop drawings is anticipated to begin soon after a contract with OWNER has been finalized and cease on or before the construction projects scheduled completion date of October 2005. Lengthening of this duration, in excess of that detailed above, is beyond the scope of this agreement.

B Request For Information (RFI)

ENGINEER will provide consulting services to answer questions concerning the design intent during the construction period.

All RFI's will be forwarded to ENGINEER for response. ENGINEER will log and track all RFI's. ENGINEER will provide a written status report of outstanding RFI's for use during regular construction project meetings.

RFI's concerning value engineering proposals are not part of this agreement. When authorized by subsequent supplemental agreement, ENGINEER will review, evaluate and comment on value engineering proposals submitted to OWNER from the construction contractor.

C Site Visits

ENGINEER will visit the construction site to evaluate construction related issues upon request of OWNER's construction project personnel.

Construction related issues pertaining to construction contractor errors are not part of this agreement. When authorized by subsequent supplemental agreement, ENGINEER will review, evaluate and prepare the necessary plan sheets to resolve the issue.

ENGINEER will not have authority to make modifications to the construction contract or stop the contractor's work. ENGINEER will not be responsible for or have authority over job site safety or construction means and methods.

SECTION 3. PAYMENT

OWNER shall pay ENGINEER for services authorized in writing as properly performed by ENGINEER on the basis herein described, subject to additions or deletions for changes or extras agreed upon in writing.

Basis of Compensation

OWNER shall make payment monthly to ENGINEER based upon statements submitted by the ENGINEER for work performed.

Compensation for performing Basic and Additional Services shall be as shown in Exhibit A on a Lump Sum amount of \$55,964.

SECTION 4. RESPONSIBILITIES

OWNER shall perform and provide the following in a timely manner so as not to delay the Services of ENGINEER, and ENGINEER may rely on the accuracy and completeness of the following:

- Authorize ENGINEER in writing to proceed [authorization to proceed is given by the execution of this Agreement].
- Place at ENGINEER's disposal all available information pertinent to the Project, including previous reports, drawings, specifications or any other data relative to the design or construction of the Project.
- Designate in writing a person to act as OWNER's representative, such person to have complete authority to transmit instructions, receive information, and interpret and define OWNER's decisions with respect to ENGINEER's Services for the Project.
- Render decisions and approvals as promptly as necessary to allow for the expeditious performance of ENGINEER's Services.
- Obtain, arrange, and pay for all surveys, advertisements for bids, permits, licenses, easements, rights-of-way, and access necessary for the performance of ENGINEER's Services.
- Make OWNER's facilities available to ENGINEER as required for performance of the Services under this Agreement, and provide labor and safety equipment required for access.
- Require all construction contracts to include provisions requiring Contractors to indemnify OWNER and ENGINEER and requiring Contractors to name OWNER, ENGINEER, and its parent company, affiliated and subsidiary entities, directors, officers and employees, as Additional Insureds on Contractors' liability insurance policies.
- Maintain property insurance on all pre-existing physical facilities.
- Provide a Builder's Risk All-Risk insurance policy for full replacement value for all Project work, which will include, without limitation, coverage for loss due to defects in materials and workmanship and errors in design, and will include OWNER, ENGINEER and Contractor as insureds.

- Give prompt written notice to ENGINEER whenever OWNER becomes aware of any development that does or may affect the scope or timing of ENGINEER's Services, or any defect in the Services of ENGINEER or its subconsultants, or the work of construction Contractors.
- Advise ENGINEER of the identity and scope of services of any independent consultants retained by OWNER to provide services in regard to the Project.

Unless otherwise provided in this Agreement, OWNER shall bear all costs incident to compliance with the above items.

SECTION 5. TIME FOR PERFORMANCE

ENGINEER shall perform all services as provided for under this Agreement in a proper, efficient and professional manner in accordance with the terms of this Agreement.

In the event ENGINEER's performance of this Agreement is delayed or interfered with by acts of the OWNER or others, ENGINEER may request an extension of time for the performance of same as hereinafter provided. If such delay is in excess of 60 days on any one occurrence or a cumulative delay of over 180 days, ENGINEER shall have the right to renegotiate the remainder of this contract. A delay shall be defined as any event caused by others that substantially inhibits the ENGINEER from proceeding with its services on the project. This shall include, but is not limited to, OWNER reviews, right-of-way negotiations and awaiting critical information to be supplied by OWNER or franchised utility companies.

No allowance of any extension of time, for any cause whatever, shall be claimed or made by the ENGINEER, unless ENGINEER shall have made written request upon OWNER for such extension within 14 calendar days after the cause for such extension occurred, and unless OWNER and ENGINEER have agreed in writing upon the allowance of additional time to be made. Provided, however, ENGINEER shall not be considered in default hereunder in delays are caused by reasons beyond its reasonable control.

SECTION 6. DOCUMENTS

All instruments of service (including plans, specifications, drawings, reports, designs, computations, computer files, estimates, surveys, other data or work items, etc.) prepared under this Agreement shall be submitted for approval of the OWNER. All completed instruments of service shall be professionally sealed as may be required by law or by OWNER.

Such instruments of service, together with necessary supporting documents, shall be delivered to OWNER, and OWNER shall have unlimited rights, for the benefit of OWNER, in all instruments of service, including the right to use same on any other work of OWNER without additional cost to OWNER. If, in the event, OWNER uses such instruments of service on any work of OWNER other than that intended in the Scope of Services, defined in Section 2, under those circumstances OWNER hereby agrees to protect, defend, indemnify and hold harmless the ENGINEER, their officers, agents,

servants and employees (hereinafter individually and collectively referred to as "Indemnities"), from and against suits, actions, claims, losses, liability or damage of any character, and from and against costs and expenses, including, in part, attorney fees incidental to the defense of such suits, actions, claims, losses, damages or liability on account of injury, disease, sickness, including death, to any person or damage to property including, in part, the loss of use resulting therefrom, arising from any inaccuracy, such use of such instruments of service with respect to such other work except where ENGINEER is hired to modify such instrument for such other work.

ENGINEER agrees to and does hereby grant to OWNER a royalty-free license to such instruments of service which ENGINEER may cover by copyright and to designs as to which ENGINEER may cover by copyright and to designs as to which ENGINEER may assert any rights or establish any claim under the design patent or copyright laws. ENGINEER, after completion of the services, agrees to furnish the originals of such instruments of service to the OWNER. ENGINEER may, however, retain copies of any and all documents produced. The license granted herein by ENGINEER shall survive termination of this Agreement for any reason.

SECTION 7. TERMINATION

OWNER may suspend or terminate this Agreement for cause or without cause at any time by giving five (5) days written notice to the ENGINEER. In the event termination is for cause however, such shall be in accordance with section 14 hereof. In the event suspension or termination is without cause, payment to ENGINEER, in accordance with the terms of this Agreement, will be made on the basis of services reasonably determined by OWNER to be satisfactorily performed to date of suspension or termination. Such payment will be due upon delivery of all instruments of service to OWNER.

Should the OWNER require a material modification of this Agreement, and in the event OWNER and ENGINEER fail to agree upon such modification to this Agreement, OWNER shall have the option of terminating this Agreement and the ENGINEER's services hereunder at no additional cost other than the payment to ENGINEER, in accordance with the terms of this Agreement, for the services reasonably determined by OWNER to be properly performed by the ENGINEER prior to such termination date.

ENGINEER may terminate this Agreement upon written notice to OWNER in the event of substantial failure by the OWNER to perform in accordance with the terms of this Agreement. OWNER shall have 14 calendar days from the receipt of the termination notice to cure or to submit a plan for cure acceptable to the ENGINEER. In the event the parties cannot agree upon an acceptable cure within a reasonable period of time from the date of notice, ENGINEER may terminate this Agreement.

SECTION 8. INSURANCE

ENGINEER shall provide and maintain Worker's Compensation and Employer's Liability Insurance for the protection of ENGINEER's employees, as required by law. ENGINEER shall also provide and maintain in full force and effect during the term of this Agreement, insurance (including insurance covering the operation of automobiles,

trucks and other vehicles) protecting ENGINEER and OWNER against liability from damages because of injuries, including death, suffered by any person or persons other than employees of ENGINEER, and liability for damages to property, arising from or growing out of ENGINEER's operations in connection with the performance of this Agreement.

Such insurance covering personal and bodily injuries or death shall be in the sum of not less than Two Hundred Fifty Thousand Dollars (\$250,000.00) for one (1) person, and not less than Three Hundred Thousand Dollars (\$300,000.00) for any one (1) occurrence. Insurance covering damages to property shall be in the sum of not less Three Hundred Thousand Dollars (\$300,000.00) aggregate.

ENGINEER shall also provide and maintain Professional Liability Insurance coverage to protect ENGINEER from liability arising out of the performance of professional services under this Agreement. Such coverage shall be in the sum of not less than \$1,000,000.00.

A signed Certificate of Insurance, showing compliance with the requirements of this Section, shall be furnished to OWNER before any services are performed under this Agreement. Such Certificate of Insurance shall provide for ten (10) days written notice to OWNER prior to the cancellation or modification of any insurance referred to therein. Such Certificates shall terminate after completion of the project.

OWNER shall be named as an "additional insured" party on all insurance policies, except for Worker's Compensation and Professional Liability policies.

SECTION 9. INDEMNIFICATION FOR INJURY AND PERFORMANCE

ENGINEER further specifically obligates itself to OWNER in the following respects, to wit:

The ENGINEER hereby agrees to protect, indemnify and hold harmless the OWNER, their officers, agents, servants and employees (hereinafter individually and collectively referred to as "Indemnities"), from and against losses, liability or damage of any character, including defense costs, expenses and attorney fees incidental to the defense of such losses, damages or liability on account of injury, disease, sickness, including death, to any person or damage to property including the loss of use resulting therefrom, from any negligent act, error, or omission of the ENGINEER, its officers, employees, or subcontractors, or anyone else for whom ENGINEER is legally liable which are resulting from or caused by the performance of any services called for by this Agreement. In the event the parties are found to be jointly or derivatively negligent or liable for such damage or injury, the indemnification shall be assessed on a proportionate basis in accordance with the final judgment, after all appeals are exhausted, determining such joint or derivative negligence or liability.

The ENGINEER is not responsible for the actions of the OWNER's contractor or any other party contracting with OWNER to perform the construction of the improvements covered under this Agreement.

Acceptance and approval of the final plans by the OWNER shall not constitute nor be deemed a release of the responsibility and liability of ENGINEER, its employees, associates, agents and ENGINEERs for the accuracy or competency of their designs, working drawings and specifications, or other documents and services provided by ENGINEER hereunder; nor shall such approval be deemed to be an assumption of such responsibility by the OWNER for any defect in the designs, working drawings and specifications, or other documents and services provided by ENGINEER hereunder; or other documents prepared by ENGINEER, its employees, and subconsultants.

SECTION 10. INDEMNIFICATION FOR UNEMPLOYMENT COMPENSATION

ENGINEER agrees that it is an independent contractor and not an agent of the OWNER, and that ENGINEER is subject, as an employer, to all applicable Unemployment Compensation Statutes, so as to relieve OWNER of any responsibility or liability from treating ENGINEER's employees as employees of OWNER for the purpose of keeping records, making reports or payments of Unemployment Compensation taxes or contributions. ENGINEER further agrees to indemnify and hold OWNER harmless and reimburse it for any expenses or liability incurred under said Statutes in connection with employees of ENGINEER.

SECTION 11. INDEMNIFICATION FOR NON-PAYMENT

To the extent OWNER has paid ENGINEER in full hereunder for same, ENGINEER shall defend and indemnify OWNER against and hold OWNER and the premises harmless from any and all claims, suits or liens based upon or alleged to be based upon the non-payment of labor, tools, materials, equipment, supplies, transportation and management costs incurred by ENGINEER in performing this Agreement.

SECTION 12. ASSIGNMENT

Neither party shall assign or sublet this Agreement or any part thereof, without the prior written consent of the other party.

SECTION 13. APPLICABLE LAWS

ENGINEER shall comply with all federal, state, county and municipal laws, ordinances, regulations, safety orders, resolutions and building codes applicable to services to be performed under this Agreement.

SECTION 14. DEFAULT OF ENGINEER

In the event ENGINEER fails to comply or is unable to comply with the provisions of this Agreement as to the quality or character of the service or time of performance, and the failure is not corrected within fourteen (14) days after written notice by OWNER to ENGINEER, OWNER may, at its sole discretion without prejudice to any other right or remedy:

- Terminate this Agreement and be relieved of the payment of any further consideration to ENGINEER except for all services determined by OWNER to be satisfactorily completed prior to termination. Payment for work satisfactorily completed shall be for percentage of completion by ENGINEER through such date of termination. In the event of, of such termination, OWNER may proceed to complete the services in any manner deemed proper by OWNER, either by the use of its own forces or by resubletting to others. In either event, the ENGINEER shall be liable for all reasonable, unmitigatable costs in excess of the total contract price under this Agreement incurred to complete the services herein provided for and the costs so incurred may be due or that may thereafter become due to ENGINEER under and by virtue of this Agreement.
- OWNER may, without terminating this Agreement or taking over the services, furnish the necessary materials, equipment, supplies and/or help necessary to remedy the situation. The reasonable expense for same may be offset against amounts due the ENGINEER. In such case, ENGINEER shall not be liable with respect to indemnity or otherwise for any such services performed, arranged, or furnished by OWNER. ENGINEER shall not be considered in default of this Agreement for delays in performance caused by acts of the OWNER or other circumstances beyond the reasonable control of the ENGINEER.

SECTION 15. ADJUSTMENTS IN SERVICES

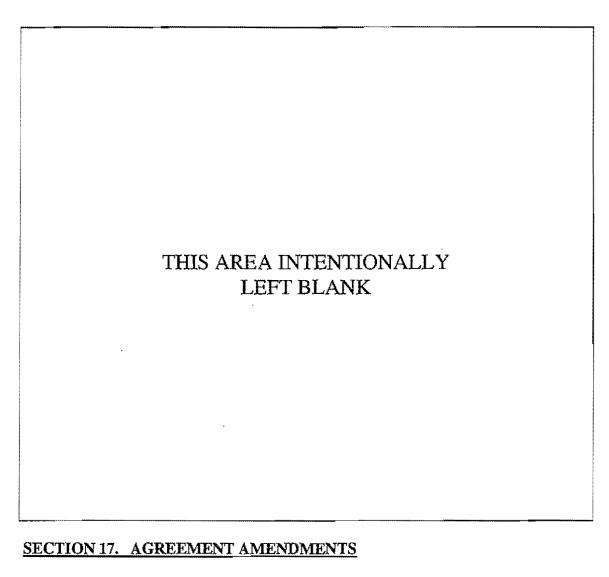
No claims for extra services, additional services or change in the services will be made by ENGINEER without a written agreement with OWNER prior to the performance of such services.

SECTION 16. EXECUTION BECOMES EFFECTIVE

This Agreement will be effective upon execution by and between ENGINEER and OWNER.

SECTION 16-A. VENUE LOCATION

In the event of any dispute or action under this Contract, venue for any and all disputes or actions shall be instituted and maintained in Dallas County, Texas. The parties agree that the laws of the State of Texas shall apply to the interpretation, validity and enforcement of this Contract; and, with respect to any conflict of law provisions, the parties agree that such conflict of law provisions shall not affect the application of the law of Texas (without reference to its conflict of law provisions) to the interpretation, validity and enforcement of this Agreement.



This Agreement contains the entire understanding of the parties with respect to the subject matter hereof and there are no oral understandings, statements, or stipulation bearing upon the meaning or effect of this Agreement, which have not been incorporated herein. This Agreement may only be modified, amended, supplemented or waived by a written instrument executed by the parties except as may be otherwise provided therein.

SECTION 18. WRITTEN NOTICES

All notices, demands and communications hereunder shall be in writing and may be served or delivered personally upon the party for whom intended, or mailed to the party to whom intended at the address set forth on the signature page of this Agreement. The address of a party may be changed by notice given pursuant to this Section.

SECTION 19. GENDER AND NUMBER

The use of any gender in this Agreement shall be applicable to all genders, and the use of singular numbers shall include the plural conversely.

this the day of August, 2004.	iges hereto have executed this Agreement on
OWNER: TOWN OF ADDISON, TEXAS	ENGINEER: HNTB CORPORATION
By :	By Jany Holet.
Ron Whitehead, City Manager 5300 Beltline Road P.O. Box 9010 Addison, Texas 75001-9010	Jerry D. Holder P.E. Associate Vice President 5910 Plano Parkway, Suite 200 Plano, Texas 75093
Witness:	Witness

EXHIBIT A

ARAPAHO ROAD PHASE 3 SHOP DRAWING REVIEW

	Description	Number of Sbeets	Project Manager	Senior Engineer	Design Engineer	CADD . Technician	Clerical	Total
		42000		~~1 <u>B</u> 111241	Signess	1 001111011111		
I.	General							
	Management and administration	N/A	16	40	24		24	104
П.	Shop Drawing Review							
	Strands	10	2	5	10	0	O	17
	Prestressed Concrete Beams	65	4	16	30		4	54.
	Prestressed Concrete Panels or Permanent Metal Deck Forms	45	3	11	20		4	38
	Sealed Expansion Joints	9	2	2	4	0	2	10
	Arch Ribs	51	6	24	51	0	4	85
	Fence	10	2	2	5	0	0	9
	Rail	10	2	2	5	0	0	9
	Lights	2	0	2	2	0	0	4
III.	Request For Information (RFI)							
	Design Intent	N/A	16	32	16	4	16	84
IV.	Site Visits	N/A	4	12	12	0	4	32

	Labor Hours	202 Sheets	57	148	179	4	58	446
	Labor Rate		\$56	\$46	\$36	\$25	\$19	
	- Total Direct Labor		\$3,192	\$6,808	\$6,444	\$100	\$1,102	\$17,646
	Indirect Labor and Overhead		\$5,139	\$10,961	\$10,375	\$161	\$1,774	\$28,410
	Subtotal		\$8,331	\$17,769	\$16,819	\$261	\$2,876	\$46,056
								*
	Profit							\$6,908
	Expenses							
	Printing and Reproduction							\$1,250
	Courier, Mailing, & Misc. exp.							\$1,750
	Subtotal							\$3,000
							1	\$55.074
	Total Labor and Expenses							\$55,964

HNTB Corporation Shop Drawing Review 8/2/2004



50 YEARS OF FUNI

(972) 450-2871 FAX (972)450-2837

Post Office Box 9010 Addison, Texas 75001-9010

16801 Westgrove

17 August 2004

VIA FAX to 214-243-1110

Mr. Marco Ramirez **DWU Relocations** Water Utilities Department **Engineering Services-Relocations** 2121 Main Street, #400 Dallas, TX 75201

RE:

Arapaho Road Phase III

Breakdown of DWU Portion of Construction Cost

Dear Mr. Ramirez:

Per the attached bidder's proposal form submitted by Archer Western, the selected contractor on the above referenced project, the construction cost for the DWU water line valve and relocation is as follows:

Bid Item 263 - 60" RCCP water lowering including but not limited to all thrust blocking, fittings and appurtenances (per DWU standards) - \$113,119.20 (\$1,413.99 per linear foot)

Bid Item 270 – 60" Butterfly Valve and Appurtenances, per plans - \$18,309.88 (lump sum)

DWU is responsible for the cost of Bid Item 270, \$18,309.88, and any other costs as covered in the ILA agreement between the Town of Addison and the City of Dallas. All other construction costs shall be the responsibility of the Town of Addison.

Sincerely,

Mike Murphy, P.E.

Director of Public Works

Attachment: Archer Western Bid Sheet

-E. Mary

Peter Fitzwilliams, DWU Program Manager cc:

Archer Western Contractors

261 Fire Hydrant (including 6" water lead and valve) EA. 2,591.65 1 262 8" C909 PVC Class 150 water line L.F. 55.18 85 60" RCCP water lowering including but not limited to all thrust blocking, fittings, and appurtenances (per DWU standards) L.F. 1,413.99 80 263 16" C900 PVC Class 150 Water lowering L.F. 143.17 30 265 8" C909 PVC Class 150 Water lowering L.F. 145.67 40 266 Trench Safety L.F. 1.00 14,5 267 Sediment removal, inside 66" RCP CY 30,74 25 268 Remove 9"x5" Headwall on West side of Midway Road EA. 1,256.75 1 Preparation and implementation of SWPPP, per specifications and 269 TCEQ requirements L.S 500.00 1 270 60" Butterfly Valve and Appurtenances, per plans L.S 18,309.88 1 271 Grouted Riprap SY 36.29 75 Temporary 8" thick Asphalt Pavement (2" HMAC Type D, 6" HMAC SY 23.05 50 272 Type B), per Traffic Control Plan SY 23.05 50 Traffic Signals - Arapaho Road at Addison Road L.S. 23,000.00 1 301 Traffic Signals - Arapaho Road at Surveyor Boulevard L.S. 10,500.00 1 302 Traffic Signals - Arapaho Road at Surveyor Boulevard L.F. 5.00 11,0 303 Conduit, 2" schedule 40 PVC, bored and trenched L.F. 5.00 10 305 Conduit, 4" schedule 40 PVC, bored and trenched L.F. 20.00 24	3,315.15 2,591.65 4,690.30 113,119.20 4,295.10 5,826.80 14,536.00 7,685.00 1,256.75 500.00 18,309.88 27,217.50 11,525.00	1 750 500	2,591.65 55.18 1,413.99 143.17 145.67 1.00 30.74 1,256.75 500.00 18,309.88 36.29	EA. L.F. L.F. L.F. CY EA. LS LS SY	Pump Station Fire Hydrant (including 6" water lead and valve) 8" C909 PVC Class 150 water line 60" RCCP water lowering including but not limited to all thrust blocking, fittings, and appurtenances (per DWU standards) 16" C900 PVC Class 150 Water lowering 8" C909 PVC Class 150 Water lowering Trench Safety Sediment removal, inside 66" RCP Remove 9'x5' Headwall on West side of Midway Road Preparation and implementation of SWPPP, per specifications and TCEQ requirements 60" Butterfly Valve and Appurtenances, per plans Grouted Riprap	261 262 263 264 265 266 267 268 269 270
262 8" C909 PVC Class 150 water line 60" RCCP water lowering including but not limited to all thrust blocking, fittings, and appurtenances (per DWU standards) 263 blocking, fittings, and appurtenances (per DWU standards) 264 16" C900 PVC Class 150 Water lowering 265 8" C909 PVC Class 150 Water lowering 266 Trench Safety 267 L.F. 145.67 40 268 Remove 9'x5' Headwall on West side of Midway Road 269 Remove 9'x5' Headwall on West side of Midway Road 260 Preparation and implementation of SWPPP, per specifications and 260 TCEQ requirements 270 60" Butterfly Valve and Appurtenances, per plans 271 Grouted Riprap 272 Type B), per Traffic Control Plan 273 Traffic Signals - Arapaho Road at Addison Road 302 Traffic Signals - Arapaho Road at Addison Road 303 Conduit, 2" schedule 40 PVC 304 L.F. 25.00 105 305 Conduit, 4" schedule 40 PVC, bored and trenched 275 L.F. 25.00 286 Traffic Signals - Value and Appurtenance of the conduit of the conduit of the conduit, 2" schedule 40 PVC, bored and trenched 305 Conduit, 4" schedule 40 PVC, bored and trenched 306 Conduit (RM)(1-1/2") 307 L.F. 20.00 208 Traffic RM(1-1/2") 308 Conduit (RM)(1-1/2") 309 L.F. 25.00 309 L.F. 25.00 300	4,690.30 113,119.20 4,295.10 5,826.80 14,536.00 7,685.00 1,256.75 500.00 18,309.88 27,217.50 11,525.00	85 80 30 40 14,536 250 1 1 1 750 500	55.18 1,413.99 143.17 145.67 1.00 30.74 1,256.75 500.00 18,309.88 36.29	L.F. L.F. L.F. CY EA. LS LS SY	8" C909 PVC Class 150 water line 60" RCCP water lowering including but not limited to all thrust blocking, fittings, and appurtenances (per DWU standards) 16" C900 PVC Class 150 Water lowering 8" C909 PVC Class 150 Water lowering Trench Safety Sediment removal, inside 66" RCP Remove 9'x5' Headwall on West side of Midway Road Preparation and implementation of SWPPP, per specifications and TCEQ requirements 60" Butterfly Valve and Appurtenances, per plans Grouted Riprap	262 263 264 265 266 267 268 269 270
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306 Conduit (RM)(1-1/2") L.F. 20.00 24	2,160.00	108	20.00	L.F.	Conduit, 2" schedule 40 PVC, bored and trenched	304
	4,875.00	195	25.00	L.F.	Conduit, 4" schedule 40 PVC, bored and trenched	305
307 35' 3" street light pole	4,860.00	243	20.00	L.F.	Conduit (RM)(1-1/2")	306
307 100 0 Street right pole EA. 2,000,00 9	18,000.00	9	2,000.00	EA.	35' 3" street light pole	307
308 Pedestrian base and light pole EA. 3,400.00 64	217,600.00	64	3,400.00	EA.	Pedestrian base and light pole	308
309 Combination, street light w/pedestrian fixture EA. 8,500.00 13	110,500.00	13	8,500.00	EA.	Combination, street light w/pedestrian fixture	309
310 Retaining Wall Mounted Light Pole EA. 1,500.00 4	6,000.00	4	1,500.00	EA.	Retaining Wall Mounted Light Pole	310
311 70W wall mounted luminaire fixture EA. 6,750.00 4	27,000.00	4	6,750.00	EA.	70W wall mounted luminaire fixture	311
312 Cable, insulated, #6 AWG L.F. 1.00 22,7		22,706	1.00	L.F.	Cable, insulated, #6 AWG	312
	654.50	770		L.F.	Cable, insulated, #8 AWG	313
	327.25	385			Bare ground, #8 AWG	314
		11,353	<u> </u>		Bare ground, #6 AWG	315
	11.353.00	11,000	~ _		Cable, insulated, #4 AWG	316
		780	1.00		Bare ground #4 AWG	317
318 Foundation, 35' 3" street light pole EA. 800.00 21	3 11,353.00 780.00 390.00	<u> </u>	<u> </u>	J L.F. I	paro ground, in Arro	

13430 Staveyor 1984 Addison TA 75001

> iPhane Nambers of AV Nambers www.haith.com

August 17, 2004

Archer Western Contractors, Ltd. 2121 Avenue "J" Suite 103 Arlington, TX 76006

Attention: Mr. Ben Withered

Re: Temporary Security Fence along City of Dallas Reservoir and Intervest Co. R.O.W.

Dear, Mr. Withered

During the recent walk through to meet the Owners/management of the adjacent properties, an issue was discussed as referenced above.

Archer Western Contractors, Ltd. is directed to submit a cost proposal to install temporary security fencing along the temporary construction easement and/or R.O.W. of the City of Dallas Reservoir and Intervest Co. property.

Archer Western Contractors, Ltd. will not proceed with the work described above until a contract change order has been issued or he is specifically directed to do so.

Thank you.

Jung V

Guy Van Baulen HNTB Corporation

Attachments:

cc: Project File

Steve Chutchian, Town of Addison Jerry D. Holder, HNTB Corporation



2121 Avenue "J", Suite 103 Arlington, TX 76006 Phone: 817/640-3898

Fax: 817/640-8734

Letter of Transmittal

To:	Town of Public Wa 16801 Wester Addison, T	rove Driv X 75001	1-e	Transmittal: Date: Project: From: Deliveried v	Andrew Schneemann
Aun.	Steven Ch	<u>noids lui</u>	<u> </u>	Deliverieu v	
We are send	ding you <u>X</u>	_attached	under sepea	rate cover the fo	ollowing items:
	_Submittals _Photos _Copy of Letter _Disks		Plans Specifications Shop Drawings CD/DVD's	×	O & M's Invoice Other:
No.	ITEM	DATE		Desc	ription
}		8-16-0H	Notice of Inte	of CHOI) Fo	c Storm Water Discharges
	<u> </u>	8-16-04	Construction S	ita Nation	
-		3 10 - 1	00.011401101	1101100	
	-				
These are Tra	nsmitted as check	ed below:			
	For Approval		Approved as Submitted		Resubmit Copies for Approval
X	For Your Use		Approved as Noted		Resubmit Copies for Distribution
.	As Requested		Returned for Corrections		Return Corrected Prints
	For Review & Comme	ent			
Comments	: :				



Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity under the TPDES Construction General Permit (TXR150000)

TCEQ Office Use Only

For help completing this application, read the TXR150000 NOI Instructions (TCEQ-20022-Instructions).

A.	Construction Site Operator New No Change Customer Reference Number: CN
	Name: Archen Western Contractors, Ltd
	Mailing Address: 2/2 Avenue J Suite 103 City: Arlington State: TX Zip Code: 76006
	Country Mailing Information (if outside USA) Territory: Country Code: Postal Code:
	Phone Number: 817 - 640 - 3898
	E-mail Address:
	Type of Operator:
	State Government ☐ County Government ☐ City Government ☐ Other:
	Federal Tax ID: 36-3286318 State Franchise Tax ID Number: 1-36-3286318-2DUNS Number: 1449947779
	Billing Address
Δ.	Name: Archer Western Contractors, Lital Attn Job # 204059
	Mailing Address: 2121 Avenue J. Suite 103 City: Arlington State: TX Zip Code: 7606
	Country Mailing Information (if outside USA) Territory: Country Code: Postal Code:
~	
L.,	Project / Site Information
	Mailing Address: 2121 Avenue 1. Suite 103 City: Arlington State: TX Zip Code: 76006
	Physical Address: 15150 Surveyor Blyd City: Addison County: - Dallas Zip Code: 75001
	Location Access Description: Armento Rd From Surveyor Blad to Addison Rd.
	Latitude: 32. °57 '24" N Longitude: "% °50' 17" W Degrees ("), Minutes ("), and Seconds (")
	Latitude: Decimal Form
	Standard Industrial Classification (SIC) code: 1622 Also, describe the construction activity at this site (do not repeat the SIC code):
	Roadway + Bridge Construction
	Has a storm water póliution prevention plan been prepared as specified in the general permit (TXR150000)? ☐ Yes ☐ No
	Estimated area of land disturbed (to the nearest acre): 10 is the project / site located on Indian Country Lands? Yes No
	Does this project / site discharge storm water into a municipal separate storm sewer system (MS4)? X Yes No
	If yes, provide the name of the MS4 operator: Town of Addison
	Provide the name or segment number of the water body that receives storm water from this project / site: White Rock Creek
D.	Contact - If the TCEQ needs additional information regarding this application, who should be contacted?
	Name: Ben Withered Title: Project Manager
	Phone Number: 817 - 640 - 3898 Extension: Fax Number: 3817 - 640 - 8734
	E-mail Address: bwithered @ Walsharoup, com
Ε.	Payment Information - Check / Money Order Number: Name on Check / Money Order:
F.	Certification
	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified
	personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am
	aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Construction Site Operator:
٠٠;	Prefix: Mr. First: Ben Middle: J.
	Last: Withered Suffix: Title: Project Manager
	Signature: Date: 872/114
	If you have questions on how to fill out this form or about the storm water program, please contact us at (512) 239-4671.
	Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information
	corrected. To review such Information, contact us at (512) 239-3282.

The completed NOI must be mailed to the following address. Use the attached document to submit the \$100 application fee. Please note that the NOI and application fee are submitted separately to different addresses.

> Texas Commission on Environmental Quality Storm Water & General Permits Team; MC - 228 P.O. Box 13087



CONSTRUCTION SITE NOTICE

FOR THE

Texas Commission on Environmental Quality (TCEQ)
Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.D.2.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from construction sites. Additional information regarding the TCEQ storm water permit program may be found on the internet at:

www.tnrcc.state.tx.us/permitting/waterperm/wwperm/tpdestorm

Contact Name and Phone Number:

Don Good 817-401-5456

Project Description:

(Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized)

Location of Storm Water Pollution Prevention Plan:

Project Description:

Arapaho Rd from Surveyor Blvd to Addison, TX

Signature and Titl

5910 W. Plano Parkway Suite 200 Plano, Texas 75093 (972) 661-5626 EAX (972) 661-561-1 www.bntb.com

August 12, 2004

Archer Western Contractors, Ltd. 2121 Avenue "J" Suite 103 Arlington, Texas 76006

Attention: Mr. Andrew Schneemann

ARAPAHO ROAD - PHASE III DWU WORKING TIME LINE

Dear Mr. Schneemann:

We have received an email from DWU indicating the time they will allow the 60-inch water line for this project to be worked on. In the email they state there is a 2-week window in which they will allow work on the waterline. This time period is from November 1, 2004 thru November 15, 2004.

DWU also requests that you submit laying plans and plans for testing the tie-in for their staff review.

The email has been attached to this letter for your reference. Please call with any questions regarding this matter.

Sincerely,

HNTB CORPORATION

Jerry D. Holder, Jr., P.E.

Director of Municipal Services

Attachment

c: Steve Chutchian, Town of Addison Katura Curry, Grantham & Associates Daniel Filer, HNTB Corporation Theodore Keptra, DWU Guy Van-Baulen, HNTB Corporation

Angela Winkler

From: Theodore Keprta [tkeprta@mail.ci.dallas.tx.us]

Sent: Monday, August 02, 2004 9:03 AM

To: lawrence.scalf@dallascityhall.com; peter.fitzwilliams@dallascityhall.com;

drobinso@dwu.ci.dallas.tx.us; maramir@dwu.ci.dallas.tx.us; bgrantham@gra-ce.net; kcurry@gra-ce.net; Jenny Nicewander; Gary Lewis; Jose Orozco; Johnny Helton; Rick

Galceran; Randy Payton; Theodore Keprta

Subject: 60-inch tie-in window

Katura

I have just received word from Pumping regarding the tie-in window for the pipe lowering and valve replacement on the 60-inch pipe along Arapaho Road.

Pumping is giving a two week window between November 1, 2004 and November 15, 2004 to complete the tie-in. Please submit laying plans and plans for testing and tie-in in time for review and approval by DWU staff in time to complete the construction work with in the time alloted.

Pumping and Distribution can not accommodate any other shut downs of the main at this time.

If you have any questions, please call me.

Thank you.

Theodore Raymond Keprta, Jr.
Engineer Assistant
Dallas Water Utilities - Relocation Section
214-671-9531 (phone)
214-243-1110 (fax)

Ĭ.,

SUBMITTAL LOG ARCHER WESTERN ARAPAHO ROAD PHASE III

Section	Submittal	Specification	Description			HNTB Review					
Number	Number	Section	(Specification/Submittal)	Туре	Provider	Date Submitted	Returned	Days Out	Status	Posted / Published	Comments
TxDot 421	1.1	TxDot 425	Portland cement concrete	Mix design	Southern Star	8/10/04	09/02/04	23	AAN		
BC	2.1	Spec BC	Arch Rib and Stinger Shop Drawings	Shop drawings	King	8/10/04	08/31/04	21	AAN		Sheets E2,S1,S6 Still under review
Bld Item 146	3,1	Addendum 3	Bollards	Shop drawings	Rejiance Foundry	8/20/04					
TxDot 462	4.1	TxDot 462	RCB Lay Schedule	Lay Schedule	Hanson	8/23/04	09/07/04	15	RR		
TxDot 462	5.1	TxDot 462	RCP Lay Schedule	Lay Schedule	Hanson	8/23/04	09/07/04	15	RR		
TxDot 423	6,1	TxDot 423	MSE Backfill, Crushed Concrete	Test Reports	BigCity	8/23/04					
TxDot 132	7.1	TxDot 132	Embankment Material - NTTA	Test Reports	Archer Western	8/24/04					
Vold	8.1	Void	Vold	Vold	Void	Vold	Void	Vold	Vold	Vold	Void
TxDot 440	9.1	TxDot 440.2	Rebar - Drill Shafts - All	Placing Sheets	Lofland	8/27/04					
TxDot 440	10.1	TxDot 440.2	Rebar - Columns 2-8 & 11-14	Placing Sheets	Lofland	8/27/04					
TxDot 440	11.1	TxDot 440.2	Rebar - Abutments 1 & 15	Placing Sheets	Lofland	8/27/04	•				
TxDot 440	12,1	TxDot 440.2	Rebar - Bents 2 - 8 & 11-14	Placing Sheets	Loffand	8/27/04					
NTCOG 805	13.1	805.3.4.1,2,3	Conduit	Product Data	S&J Electric	8/27/04					
TxDot	14.1	Sht. 329	Type A&C Pull Boxes	Product Data	S&J Electric	8/27/04					
BELF	15.1	BELF	Exterior Fixtures	Product Dats	S&J Electric	8/27/04					
SLL	16.1	BELF,SLL	Street Lights and Fixtures	Product Data	S&J Electric	8/27/04					
TxDot 423	17.1	TxDot 423	MSE Wall Calculations	Calculations	Robertson Eng	8/27/04					
WML	18.1	WML	Waji Mount Lightd	Product Data	S&J Electric	8/27/04					
NTCOG 805	19.1	805,3.5	Wire and Cable	Product Data	S&J Electric	8/27/04					
TxDot 423	20.1	TxDot 423	MSE Wall Shop Drawings	Shop drawings	Robertson Eng	9/1/04					

9/8/2004

Α	RA	PΑ	OH.	RO	AD

PRIORI PRIORIDI		Current Week						Next Week						Following Week						Archer Wessern Contractors	
Activity Description	Prod	M	T	W	T	F	S/S	i		W	J		S/S			W			S/S	Contactors	
		6	7	8	9	10	11	13	14	15	16	17	18	20	21	22	23	24	25	Equipment	
TXU Lines		<u></u>			Х	X		Х	Х	Х										S&J/ TXU	
Excavate Brick Yard							Χ														
Cut-in 8" water valve @ 39+50							Х														
Box Culvert A & B					Х	Х		Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X		
Demo Trees/Grind Trees			Х	Χ				Х		Х		Х								Thelin	
Orange Fence(60') East of Midv	way			Χ																	
Temp. Fence At Water Plant				Х	Х	Х															
Saw Cut- Site & Streets				Х																	
Temp. R.R. Crossing																				DGNO	
Inlets																Х	Χ	Х		Inlet Spec.	
								,													
																			\nearrow		

DATE SUBMITTED: August 2, 2004 FOR COUNCIL MEETING: August 19, 2004

Council Agenda Item:

SUMMARY:

This item is for Council authorization for the City Manager to enter into a Contract Agreement with TXU Electric Delivery for the relocation and installation of electrical services in connection with the extension of Arapaho Road, Phase III, from Addison Road to Surveyor Blvd.

FINANCIAL IMPACT:

Budgeted Amount: Not specifically budgeted

Cost: \$282,948.00

Source of Funds: Funds are available from the Arapaho Road Capital Project

Fund.

BACKGROUND:

Of the many aspects relating to the Arapaho Road, Phase III construction project, the relocation of electric utilities is a substantial undertaking. In accordance with the attached agreement with TXU Electric Delivery, the Town of Addison's contractor will install conduit for services that will be relocated during construction. TXU Electric Delivery will pull wires through this conduit and perform other relocation of overhead electric facilities within the project site. Money had been allocated to accommodate funding requirements for this portion of the project and it is within the existing budget limits.

RECOMMENDATION:

Staff recommends that the City Manager be authorized to sign this agreement with TXU Electric Delivery in the amount of \$282,948.00.

GO-BYS TXUBANK
FOR AGENDA I TEM

Council Agenda Item

SUMMARY:

This item is for Council approval of a change order, in the amount of \$101,587.00, for the construction of Spectrum Drive North/South Extension Project.

FINANCIAL IMPACT:

Budgeted Amount:

\$3,100,000

Change Order Cost:

\$101,587.00

Source of Funds:

\$2,600,000 from Bond Sale. Remaining amount from

Unallocated Bond Fund Proceeds

BACKGROUND:

The Spectrum Drive North/South Extension Project was established as part of the Year 2000 General Obligation Bond Program. In December 2003, a construction contract was awarded to Site Concrete, Inc., in the amount of \$2,536,979.50, which is approximately \$563,000 under the budgeted amount. During the construction of these improvements, Public Works Department staff and the Contractor have identified several necessary field changes. Accordingly, a change order in the total amount of \$101,587.00 was prepared and submitted to Council for consideration. This change order is the result of the following construction issues:

• The design engineer, Huitt-Zollars, Inc., inadvertently omitted pay quantities in the contract proposal for the removal and replacement of an existing concrete drive and fire lane at the Millenium building site. This work is an integral component of the project, and was included in the engineering design. It is necessary because a proposed outfall box culvert storm sewer system must be constructed under the existing drive and fire lane. Staff evaluated the possibility of moving the culvert to either side of the concrete drive. However, development plans on the Millenium side include the construction of a new structural facility that will prevent any encroachment from this project. The box culvert cannot be placed on the other side of the drive due to the proximity of the DART right-of-way and the location of numerous utility and fiber optic lines. The Contractor originally designed the drive replacement with 6" reinforced concrete over a lime stabilized subgrade. Equivalent work on other areas of this project was bid at \$30.00 per square yard for concrete and \$2.00 per square yard for lime stabilization, with a total unit cost of \$32.00 per square yard. However, the

- change order for the drive reflects construction of 8" reinforced concrete over a compacted subgrade at a reduced total unit cost of \$28.00 per square yard.
- Staff determined the need for changes to the design of a proposed retaining wall and tree grates, with a total net increase in cost of \$17,972.00. A milsap stone façade will be placed on the originally designed concrete retaining wall. The IronSmith tree grates will be replaced with Neenah tree grates.
- Due to the review of engineering plans and specifications for the proposed Parkview at Addison Circle Townhome development, adjacent to Spectrum Drive, staff was able to reduce the planned water and sanitary sewer facilities to serve the area. The change order reflects a reduction in total utility installation cost by \$6,050.00.

It should be noted that the drive and fire lane replacement portion of the project must be performed at this time, and is included in the original design plans and specifications. The cost of performing these improvements would have been part of the original bid package if the Engineer had placed the quantities in the proposal. The resulting total construction cost is increased to \$2,638,566.50, which remains under the budgeted amount by approximately \$461,000.

RECOMMENDATION:

It is recommended that Council approve a change order, in the amount of \$101,587.00, for the construction of the Spectrum Drive North/South Extension Project.

DATE SUBMITTED: June 11, 2004 FOR COUNCIL MEETING: June 22, 2004

Council Agenda Item:

SUMMARY:

This item is for the award of a contract to Archer Western Contractors, Ltd., for construction of Arapaho Road and Bridge, Phase III, from Surveyor Blvd. to Addison Road, including Alternate Bid #1 & #2.

FINANCIAL IMPACT:

Construction Cost:

\$16,702,578.42

Source of Funds:

Funds are available from the FY 2002 & 2004 General Obligation

Bond Program (Arapaho Road & Midway Road), DART LAP

Funds, & Dallas County, Project No. 83300.

BACKGROUND:

The third phase of the proposed Arapaho Road extension project extends from Surveyor Blvd. to Addison Road. Construction of these improvements will complete an east-west minor arterial roadway that is necessary to relieve traffic congestion on Belt Line Road. It is anticipated that the new road will initially absorb approximately 11,000 vehicles per day, with a maximum future count of 15,000 vehicles per day. A proposed signature bridge over Midway Road and a pedestrian trail system are also proposed as an integral part of the roadway section in this phase. The firm of HNTB Corporation acted as the principal designer for this project. Bids were received on June 7, 2004 for construction of the project, and included the following items:

- Roadway Improvements
- Utility Improvements
- Lighting and Signalization Improvements
- Streetscape Improvements
- Bridge Construction
- Bridge Lighting

Attached is a bid tabulation for these improvements. The bid proposal in the specifications for construction was structured to provide an incentive/disincentive method of bidding the project. Specifically, each bid submitted was required to consist of two parts whereby:

DATE SUBMITTED: August 2, 2004 FOR COUNCIL MEETING: August 19, 2004

Council Agenda Item:

SUMMARY:

This item is for Council authorization for the City Manager to enter into a Contract Agreement with TXU Electric Delivery for the relocation and installation of electrical services in connection with the extension of Arapaho Road, Phase III, from Addison Road to Surveyor Blvd.

FINANCIAL IMPACT:

Budgeted Amount:

Not specifically budgeted

Cost:

\$282,948.00

Source of Funds:

Funds are available from the Arapaho Road Capital Project

Fund.

BACKGROUND:

Of the many aspects relating to the Arapaho Road, Phase III construction project, the relocation of electric utilities is a substantial undertaking. In accordance with the attached agreement with TXU Electric Delivery, the Town of Addison's contractor will install conduit for services that will be relocated during construction. TXU Electric Delivery will pull wires through this conduit and perform other relocation of overhead electric facilities within the project site. Money had been allocated to accommodate funding requirements for this portion of the project and it is within the existing budget limits.

RECOMMENDATION:

Staff recommends that the City Manager be authorized to sign this agreement with TXU Electric Delivery in the amount of \$282,948.00.

P.002

T-483

Tariff for Retail Delivery Service **TXU Electric Delivery Company**

6.3 Agreements and Forms Applicable: Entire Certified Service Area Effective Date: January 1, 2002

Page 2 of 23 Revision: Original

6.3.1 Facilities Extension Agreement

		Project Number	
		WR Number	1992629 and 2041434
		Region/District	Farmers Branch
Companundergreundergre undergre Road an	reement is made between <u>Town of Addison</u> ner" and TXU Electric Delivery Company, a Texas corporati ny Delivery System facilities, as hereinafter described, to the ound at seven locations between Surveyor and Midway Ro ound approximately 400 feet in duct bank on east side of M nd crossing Midway north and south of the railroad tracks; a n Road approximately 100 feet west of Intersection with Ara	e following location: c ads from pole line on : lidway where Arapaho ind from pole line on e	rossing Arapaho Road south side of railroad tracks; Road bridge crosses Midway ast side of Addison Road acros
The Con	npany has received a request for the extension of: (check	all that apply)	
	STANDARO DELIVERY SYSTEM FACILITIES TO NON-RESIDEN	TIAL DEVELOPMENT	
	Company shall extend standard Delivery System far maximum demand requirement ofkW (*hereunder will be of the character commonly descrit phase, at 60 here, with reasonable variation to be a	'Contract kW"). The Doed as	elivery System facilities installe
	STANDARD DELIVERY SYSTEM FACILITIES TO RESIDENTIAL (DEVELOPMENT	
	Company shall extend standard Delivery System fac	littles necessary to ser	ve:
	(Number of Istatuda) All-electric residential lot(s)/ap	partment units, or	
	Electric and gas residential to	t(s)/aparlment units.	
	The Delivery System facilities installed hereunder will as volt, pallowed.		

X NON-STANDARD DELIVERY SYSTEM FACILITIES

Company shall extend/install the following non-standard facilities:

TXU Electric Delivery removes seven overhead services that cross Arapaho Road from Surveyor to Midway and replaces with underground cable. Company installs pads and sets two new padmounted transformers to serve two of these customers. Bulloughs-Lykos and Absolute Systems, who are convening their point of delivery from overhead to underground. Town of Addison supplies and installs at its expense conduit and spare for all six services. Town of Addison also performs all electric work past the company's point of ownership at each service location. Company removes overhead lines on east and west sides of Midway where Arapaho Road crosses, replaces with underground cable, and installs the four overhead/underground transitions at existing or relocated pole locations. Town of Addison reserves the option to perform all civil work associated with the relocation of the overhead wires at the above mentioned Midway crossing to underground, including the duct bank and the two bores across Midway, north and south of the railroad tracks. The transformer gole serving the customers at 15289 Addison Road at the southwest corner of the intersection of Arapaho and Addison Boads will be relocated to clear Arapaho Road and retain its overhead wire attachments until the Addison Road project replaces the overhead wires with underground cable.

ARTICLE I - PAYMENT BY CUSTOMER

At the time of acceptance of this Agreement by Customer, Customer will pay to Company Two hundred and eighty two thousand nine hundred and forty eight Dollars (\$ 282,948) as payment for the Customer's portion of the cost of the

P 003

T-483

Tariff for Retail Delivery Service TXU Electric Delivery Company

6.3 Agreements and Forms

Applicable: Entire Certified Service Area Effective Date: January 1, 2002

Page 2 of 23 Revision: Original

extension of Company facilities, in accordance with Company's Facilities Extension Policy, such payment to be and remain the property of the Company.

ARTICLE II - NON-UTILIZATION CLAUSE FOR STANDARD DELIVERY SYSTEM FACILITIES

This Article II applies only to the Installation of standard Delivery System facilities.

- a. The amount of Contribution in Ald of Construction ("CIAC") to be paid by Customer under Article I above is calculated based on the estimated data (i.e., Contract kW or number and type of lots/units) supplied by Customer and specified above. Company will conduct a review of the actual load or number and type of lots/units at the designated location to determine the accuracy of the estimated data supplied by Customer. If, within two (2) years after Company completes the extension of Delivery System facilities, the estimated load as measured by actual maximum kW billing demand at seid location has not materialized or the estimated number and type of dwelling unite/lots at said location have not been substantially completed, Company will re-calculate the CIAC based on actual maximum kW billing demand realized or the number and type of substantially completed dweiling units/tots. For purposes of this Agreement, a dwelling unit/lot shall be deemed substantially completed upon the installation of Company's meter. The installation of a Company meter in connection with Temporary Delivery Service does not constitute substantial completion.
- b.Cuelomer will pay to Company a "non-utilization charge" in an amount equal to the difference between the recalculated CIAC amount and the amount paid by Customer under Article I, above. Company's Invoice to Customer for such "non-utilization charge" is due and payable within fifteen (15) days after the date of the

ARTICLE (II - TITLE AND OWNERSHIP

Company at all times shall have title to and complete ownership and control over the Delivery System facilities extended under this Agreement.

ARTICLE IV - GENERAL CONDITIONS

Delivery service is not provided under this Agreement. However, Customer understands that, as a result of the
Installation provided for in this Agreement, the Delivery of Electric Power and Energy by Company to the specified location
will be provided in accordance with Rate Schedule, which may from time to time be amended
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This Agreement supersedes all previous agreements or representations, either written or oral, between Company and Customer made with respect to the matters herein contained, and when duly executed constitutes the agreement between the parties hereto and is not binding upon Company unless and until signed by one of its duly authorized representatives.

ARTICLE V - OTHER SPECIAL CONDITIONS

The (entity name) agrees that the payment indicated in ARTICLE I of this Agreement shall be made within 30 days of the date the project is completed or the date the invoice is received, whichever is fater.

ACCEPTED BY COMPANY:	ACCEPTED BY CUSTOMER:
Samo & Daws	Signature
Senior Engineer Title	Title
August 3, 2004	Date Signed

Steve Chutchian

From:

JDAVI\$4@txued.com

Sent: To: Tuesday, August 03, 2004 9:59 AM Steve Chutchian; Mike Murphy

Subject:

BREAKOUT OF COST FOR TXU ED RELOCATION ON ARAPAHO ROAD PHASE III

Mike and Steve,

The following is a breakout of cost for the TXU ED relocation for Arapaho Road Phase III:

- (1) \$ 82,570 WR#1992629: Relocation of all overhead wires crossing Arapaho Road between Surveyor and Midway to underground, relocation of overhead service to Charter Furniture on west side of Midway to underground, and relocation of one pole just west of Arapaho and Addison Road intersection.
- (2) \$329,481 WR#2041434: Cost to relocate overhead wires on east and west sides of Midway to underground in duct bank. This is cost for TXU ED to perform electrical and all civil construction, including the material for and construction of duct bank, two manholes, conduits, and performance of two bores across Midway. The total civil construction cost is \$205,943. The non-civil or electrical portion of the cost is \$123,538.
- (3) \$119,103 WR#2008401: Cost to clear Arapaho Road bridge on east and west sides of Midway by increasing height of overhead wires with taller poles.

Total TXU ED cost is the cost of item #1 and the difference in cost between items #2 and #3. This amount is \$282,948. If you have any questions about these costs, please contact me.

Sincerely,
James Davis
Senior Engineer
TXU Electric Delivery Company

Confidentiality Notice: This email message, including any attachments, contains or may contain confidential information intended only for the addressee. If you are not an intended recipient of this message, be advised that any reading, dissemination, forwarding, printing, copying or other use of this message or its attachments is strictly prohibited. If you have received this message in error, please notify the sender immediately by reply message and delete this email message and any attachments from your system. .

Archer Western Contractors

					T	
	260	8" Reinforced Concrete Parking Lot sawcut/removal/replacement at Pump Station	SY	73.67	45	3,315.15
	261	Fire Hydrant (including 6" water lead and valve)	EA.	2,591.65	1	2,591.65
	262	8" C909 PVC Class 150 water line	L.F.	55.18	85	4,690.30
		60" RCCP water lowering including but not limited to all thrust				MARKET MERCHANISTER AND ASSESSMENT OF THE PROPERTY OF THE PROP
*	263	blocking, fittings, and appurtenances (per DWU standards)	L.F.	1,413.99	80	113,119.20
	264	16" C900 PVC Class 150 Water lowering	L.F.	143.17	30	4,295.10
	265	8" C909 PVC Class 150 Water lowering	L.F.	145.67	40	5,826.80
	266	Trench Safety	L.F.	1.00	14,536	14,536.00
	267	Sediment removal, inside 66" RCP	CY	30.74	250	7,685.00
	268	Remove 9'x5' Headwall on West side of Midway Road	EA.	1,256.75	1	1,256.75
ĺ		Preparation and implementation of SWPPP, per specifications and				
.]	269	TCEQ requirements	LS	500.00	1	500.00
*1	270	60" Butterfly Valve and Appurtenances, per plans	LS	18,309.88	1	18,309.88
l	271	Grouted Riprap	SY	36,29	750	27,217.50
	272	Temporary 8" thick Asphalt Pavement (2" HMAC Type D, 6" HMAC Type B), per Traffic Control Plan	SY	23.05	500	11,525.00
			LIP CONTRACT		好的 医隐断	
	TOTAL AM	OUNT: BID: FOR MATERIAL'S AND SERVICES SCHEDULE: II; ITEMS		⊥ aza inci delve		\$ 3,741,303.93
ł	301	Traffic Signals - Arapaho Road at Addison Road	L.S.	23,000.00	<u> </u>	23,000.00
ı	302	Traffic Signals - Arapho Road at Surveyor Boulevard	L.S.	10,500.00	1	10,500.00
ŀ	303	Conduit, 2" schedule 40 PVC	L.F.	5.00	11,003	55,015.00
ŀ	304	Conduit, 2" schedule 40 PVC, bored and trenched	L.F.	20.00	108	2,160.00
-	305	Conduit, 4" schedule 40 PVC, bored and trenched	L.F.	25.00	195	4,875.00
ŀ	306	Conduit (RM)(1-1/2")	L.F.	20.00	243	4,860.00
ł	307	35' 3" street light pole	EA.	2,000.00	9	18,000.00
Ì	308	Pedestrian base and light pole	EA.	3,400.00	64	217,600.00
l	309	Combination, street light w/pedestrian fixture	EA.	8,500.00	13	110,500.00
ľ	310	Retaining Wall Mounted Light Pole	EA.	1,500.00	4	6,000.00
Ī	311	70W wall mounted luminaire fixture	EA.	6,750.00	4	27,000.00
r	312	Cable, insulated, #6 AWG	L.F.	1.00	22,706	22,706.00
	313	Cable, insulated, #8 AWG	L.F.	0.85	770	654.50
ľ	314	Bare ground, #8 AWG	L.F.	0.85	385	327,25
f	315	Bare ground, #6 AWG	L.F.	1.00	11,353	11,353.00
	316	Cable, insulated, #4 AWG	L.F.	1.00	780	780.00
ľ	317	Bare ground, #4 AWG	L.F.	1.00	390	390.00
f	318	Foundation, 35' 3" street light pole	EA.	800.00	21	16,800.00
_			L			10,000,00

Steve Chutchian

To:

Schneemann, Andrew

Subject: RE: TEMPORARY ELECTRIC POLE FOR JOB TRAILERS

Andrew: it is satisfactory to place the pole on this comer, with the provision that it does not impede the Town's ability to move municipal vehicles into and out of the site. Thanks.

Steve C.

----Original Message----

From: Schneemann, Andrew [mailto:aschneemann@walshgroup.com]

Sent: Tuesday, July 27, 2004 5:09 PM

To: Steve Chutchian **Cc:** Withered, Ben

Subject: TEMPORARY ELECTRIC POLE FOR JOB TRAILERS

Steve

Please review the attached Sketch. Archer Western and Oncor need to install a temporary electric pole on the north east corner of Surveyor Blvd. and Arapaho Rd, approximately Surveyor Blvd. station 49+08, 33' LT. The power line will extend across Surveyor Blvd. and then across proposed Arapaho Rd. to the trailer site. The Pole will be removed after the completion of the project. Will it be acceptable to the Town of Addison to locate the temporary electric pole on this corner? Please let me know as soon as possible, so that we can proceed with hooking up power to the trailer site.

Thank You

Andrew Schneemann Archer Western Contractors, Ltd. W-(817) 503-0298 F-(817) 503-0289

HP LaserJet 3200se

HP LASERJET 3200

JUL-23-2004 7:49AM



Fax Call Report

Time Type

Identification

Duration

Pages

Result

279 7/23/2004

Date

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OK

TOWN OF ADDISON PUBLIC WORKS

PUBLIC WORKS

Company: Philling Lift Barricide

Date: 7/23/09

No. of Pages (including cover): 3

From:

Michael E. Murphy, P.E. Director of Public Works

Office: 972/450-2876 Fax: 972/450-2837

16801 Westgrove

P.D. Box 9010 Addison, TX 75001-9010

Stone, For Arapahoth File DEW John

2/2/6/1
DATE //22/14
you NAME Cowboy with Palles Light Nom HOME# 214-748 3586 Fox
ADDRESS COLD-214882-8272 WORK#214-748-5791
REQUEST FOR Jolly Light GAMCielo for Antonform
Gignage for ArapphoII - 48x48 or 36x30 {
Project signs - Caxed
Messey foreste? Ours or theirs? When?
TAKEN I told him signs could be placed according to MUTCD
minimums, but could be spread out further to accomodate
sight lines + local conditions. Size could be changed
ROBIN_ # if OK'd by angineer. He asked
AL
MITCH A faxed him Project Sign Tr to.
JAMES
JEFF
JOHN

TOWN OF ADDISON PUBLIC WORKS

To: Cowboy Gary

Company: Pallas Light + Barricade

FAX#:214-748-3586

Date: 7/23/04

No. of Pages (including cover): 3

From:

Michael E. Murphy, P.E. Director of Public Works

Office: 972/450-2878 Fax: 972/450-2837

16801 Westgrove P.O. Box 9010 Addison, TX 75001-9010

PLEASE PARDON THE TEMPORARY INCONVENIENCE DURING THIS PROJECT ARAPAHO ROAD -- PHASE III:

- -- CONSTRUCTION OF ARAPAHO ROAD FROM SURVEYOR BOULEVARD TO ADDISON ROAD
- -- BRIDGE OVER MIDWAY ROAD

CONTRACTOR: Archer-Western Ph.* _ _____ ESTIMATED COMPLETION DATE: Fall, 2005

AN ADDISON PROJECT; FUNDED BY BONDS FOR MORE INFORMATION, PLEASE CALL 972-450-2860

287/

PROJECT SIGN

Project Designation signs will be constructed and installed on the project site as the Owner. It will be the responsibility of the Contractor to maintain the sign sentable condition at all times during construction. Maintenance will include and repairs as directed by the City Engineer or his appointee. The locations of will be given to the Contractor by the Town of Addison at the pre-construction

medal

shall be constructed of 3/4-inch thick smooth finish fir ply-wood (Grade A-C, mor better).

will be securely mounted to 6" x 6" square posts. Nuts and bolts will not protrude an acceptance of sign. Posts will be mounted to a support system that will provide adequate a support system to ensure the sign will not fall over in heavy winds. Sand bags or other adaptives may be necessary to protect sign.

oimensions:

rect sign will be four feet tall and six feet wide. The height and arrangement of the leading shall be in accordance with the attached detail.

will be one-sided and will have a white background. Text will be black, except for word "Addison!" which will be a blue color approved by the City Engineer. The will be an outdoor paint and will be maintained throughout the project in proper The quality of the paint, painting, lettering on the signs shall be approved by the Engineer or his appointee.

winent:

will not be a separate pay item, but will be subsidiary to other bid items. This will be all labor, equipment, tools, and incidentals necessary to complete and install the



The HNTB Companies 5910 W. Plano Parkway Plano, Texas 75093 (972) 661-5626 (972) 661-5614 FAX

Town of Addison, Texas Arapaho Phase 3 HNTB Job No. 25768

MEETING MINUTES July 14, 2004 2:00 pm, 16801 Westgrove, Addison, Texas

The following represents the undersigned's understanding of the issues discussed and the resolutions agreed upon. Any objection to any item(s) in these minutes must be submitted in writing to the undersigned within ten (10) calendar days of the issue date of these minutes or these minutes shall become part of the permanent project record.

Attendees:	Name	Organization
	Mike Murphy	Town of Addisor

Steve Chutchian Town of Addison Robin Jones Town of Addison

Josh Newman Lone Star Railroad Contractors
Joseph Angelone American Landscape Systems

Archer-Western Chris Langford Archer-Western Kelly Brannum Andrew Schermann Archer-Western Don Good Archer-Western Archer-Western Ben Withered S&J Electric Tim Sparks Tommy Curtis S&J Electric S&J Electric James A. Ward

Jay Galler Dallas Lite and Barricade

Ben Claybour
Rick Poe
James Davis
TXU ED
David Barnes
H-T-S Drilling
David Robinson
Erick Steitle
Raymond Keprta
DART
Hanson
DART
Hanson
DAILas Water Utilities
Dallas Water Utilities
Dallas Water Utilities

Bruce Grantham G&A

Mike Preston HNTB Corporation
David Boles HNTB Corporation
Daniel J. Filer HNTB Corporation
Guy Nan Baulen HNTB Corporation
Mike Ebling HNTB Corporation
Jenny Nicewander HNTB Corporation

I. Arapaho Phase 3 Preconstruction Conference

- A. Introductions
- B. Agenda Items J. Nicewander
 - 1. Project Information –(See Agenda.)
 - 2. Notice to Proceed to be issued tentative date August 9, 2004
 - 3. Purpose of the preconstruction meeting explained. (See Agenda.)
 - 4. Environmental issues None outstanding. NOI application to be filed with TCEQ. Contractor to file for both the contractor and the Town.
 - 5. Utility overview
 - David Robinson was concerned with shut down schedule and outages. He expressed the importance to letting DWU be aware of what was happening to give them enough lead time. He wants to review the final plans an be in formed to schedule outages.
 - B. Grantham mentioned some design issues, but feels they are close to establishing a schedule for shut down; there was a change to original design that will ease the tie-in; after a final design, a scheduling meeting will be necessary; DWU is providing the valve; Town of Addison will bring in Ben W. once design is complete; design is expected within 2 weeks.
 - Mark (SBC) is concerned with Midway Road because of fiber lines; he stressed that there are many customers along that trunk.
 - James (Oncor/TXU) mentioned that relocation at Dallas Water Station will be first critical issue; we are still lacking easement along Midway which will be needed before relocation can proceed; Ben W. insisted that change to Oncore line at water tank requires more details/drawings;
 - Jose Flores or Dave Wilde will work closely with utility relocation
 - 6. Review of General Conditions. (See Agenda.)
 - 7. HNTB to provide electronic format of monthly estimate to contractor.
 - ROW ROW has been acquired. Only outstanding ROW issue is easement for the Oncor transformer. The Town is working with Oncor to facilitate obtaining this easement.
 - 9. Work Hours
 - Not restricted except for within a 300 feet of hotels. The Contractor was asked to formally submit a letter to the town requesting unrestricted work hours outside of the hotel restriction.
 - Project signs
 - Project signs should be placed at both ends of project and on both directions of Midway; spec book has layout information; signs should be placed ASAP
 - 11. Public Involvement
 - By 01Sep04, key personnel should have "face-to-face" meeting with individual business owners along project site;
 - Public involvement is critical because of high exposure of this project

12. DART

Need to be cognizant of protecting the rail at all times. CONTRACTORS
ARE TO STAY OFF THE TRACKS

Town of Addison, Texas Arapaho Phase 3 HNTB Job No. 25768

13. Staging plan

Staging of equipment plan may need to be addressed because of ROW issues.

C. Action Items

- 1. HNTB to provide electronic format of monthly estimate to contractor.
- 2. Team to set up weekly progress meetings after the NTP.
- 3. Contractor to provide an electronic copy of the schedule for review

Author of Meeting Minutes:

Jenny Nicewander, P.E. HNTB Corporation

Issue Date: July 19, 2004

Arapaho Phase 3 Page 3 07/21/04

PRECONSTRUCTION CONFERENCE

Project:

Arapaho Road - Phase III - Surveyor Boulevard to Addison Road

1.0 Introductions

2.0 Project Information:

Nature and Size of the Project: Paving, Structures, Storm Sewer, Water, Sanitary Sewer, Signalization, Streetscape Improvements

Bid Date:

May 27, 2004

Number of Bidders:

\$16,710,548.42 including Alternate 1

Contractor:

Archer Western Contractors

Schedule:

Low Bid:

425 Calendar Days

Notice to Proceed Issued:

August 9, 2004 - Tentatively

Time Charges Begin:

August 9, 2004 - Tentatively

3.0 Purpose

The purpose of the conference is for all parties to get acquainted; establish lines of authority and communication; determine the responsibilities and duties of the contractor's personnel, subcontractors, Town and consultant personnel; clarify potential sources of misunderstanding and work out the details necessary for a successful project completion.

The Contractor must adhere to all provisions of the Standard Specifications and Special Provisions and all other provisions of the signed contract regardless of whether these specifications are specifically discussed in this preconstruction conference.

4.0 Environmental Issues

Status of the NOI Application

Town of Addison NOI Application

5.0 Review of General Conditions

Standard Specifications: shall be the Standard Specifications for Public Works Construction, North Central Texas Council of Governments, 4th Edition, 2002.

<u>Special Provisions:</u> shall be that section of the contract titled Section SP, Special Provisions.

Permits and Licenses shall be secured and paid for by the Contractor.

All property corners and control monumentations shall be carefully preserved by the Contractor.

The Contractor shall contact all utility companies which have facilities in the vicinity of the proposed improvements to confirm the horizontal and vertical locations of their respective facilities; the Contractor shall be responsible for the protection of all existing utilities and service lines within the project limits.

Traffic Control shall be provided by the Contractor in accordance with the provisions of the latest edition of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways

The Contractor shall provide an Engineer's Field Office in accordance with the provisions of Special Provision 53, Project Trailer and Staging Area.

The Contractor should take note of the allowed work hours as noted in Special Provision 55, Restricted Work Hours.

6.0 Waivers of Lien

The Contractor must submit Waivers of Lien in accordance with Section WOL, Waiver of Lien.

7.0 Submittals

The Contractor shall submit seven (7) copies of all submittals. All submittals must be clearly stamped with the Contractor's name and date as checked/reviewed by the Contractor prior to submittal to the Engineer. Submittals received by the Engineer without the Contractor's stamp will be returned not reviewed. The contractor will receive three (3) copies of submittals back following review by the Engineer.

8.0 Subcontractors

A complete list of all subcontractors must be submitted to the Engineer prior to the start of any work.

9.0 Partial Pay Requests

Monthly pay estimates will be processed in accordance with Standard Specification 109.5. The Engineer will provide an electronic format of the partial pay estimate for use by the Contractor.

10.0 Requests for Information

The Engineer will provide an electronic format for Requests for Information (RFI's) for all questions submitted to the Engineer by the Contractor.

11.0 Coordination with Property Owners

12.0 Construction Traffic Entrances

13.0 Dallas Water Utility

Open forum to specifically discuss the water utility issues.

14.0 Open Forum for Questions/Discussion

This will be an open forum for anyone to discuss any issues not covered above.

PRECONSTRUCTION CONFERENCE

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1.0 Introductions

2.0 Project Information:

Nature and Size of the Project: Paving, Structures, Storm Sewer, Water, Sanitary Sewer, Signalization, Streetscape Improvements

Bid Date: May 27, 2004

Number of Bidders: 3

Low Bid: \$16,710,548.42 including Alternate 1

Contractor: Archer Western Contractors

Schedule: 425 Calendar Days

Notice to Proceed Issued: August 9, 2004 - Tentatively

<u>Time Charges Begin:</u> August 9, 2004 - Tentatively

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Facsimile (972) 450-7096

P.O. Box 9010 Addison, Texas 75001

July 13, 2004

Matthew Walsh Archer Western Contractors, Ltd. 2121 Avenue J, Suite 103 Arlington, TX 7600650

Re: NOTICE TO PROCEED- Bid 04-22 Arapaho Rd Phase III

Dear Mr. Walsh:

This document shall serve as your Notice to Proceed for the above referenced project, and is issued and effective to commence work August 9, 2004 to provide all labor and materials as outlined in the specifications, and under the terms and conditions of the contract documents. Enclosed is your copy of the signed contract.

The proposed improvements and work shall be completed within the calendar days and with the original price of the contract. Please include Bid No. and Name: 04-22 Arapaho Rd Phase III, on all monthly invoices or other correspondence to the Town of Addison.

Should you have any questions, please contact my office at 972-450-7091.

Sincerely,

Minok Suh Purchasing Coordinator

Enclosure

Cc:

Jim Pierce Steve Chutchian



Jap

June 29, 2004

Steve Chutchian Town of Addison Department of Public Works 16801 Westgrove Addison, TX. 75001

Dear Mr. Chutchian,

Per Item N of the special Provisions, the tentative work to be performed by Archer Western will be as follows:

- General Site Preparation
- Excavation
- Embankment
- Removals and Disposals
- Reinforced Concrete Pavement
- · Retaining Walls
- Bridge Construction
- Sanitary Sewer
- Storm Sewer
- Water Line

We are currently evaluating proposals from subcontractors for storm sewer and concrete pavement construction. We will notify the town of Addison if we choose to subcontract this work.

Attached is a list of subcontractors and suppliers which will be used on this project.

If you have any questions do not hesitate to contact me at 817-503-0298.

Thank You

Ben Withered

Project Manager

No.	Subcontractors	item of Work	Address	Phone	Fax	Contact
		4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.		<u> </u>		
2	American Landscape Systems	Landscaping/ Irrigation	2314 Glenda Lane, Dallas, TX. 75229	972-484-5858	972-484-7470	
3	ATS Drilling	Drill Shafts	PO Box 48353, Ft Worth, TX, 76148	817-498-0040	817-831-2938	
5	Dallas Light and Barricade	Traffic Control	1607 Ft. Worth Avenue, Dallas, TX. 75208	214-748-5791	214-748-3586	
7	Haukos	Trenching	18352 Dallas Pkwy Suite 136-313, Dallas, TX. 75287	972-386-4220	972-490-5059	
9	Longhorn Road Bonng Co.	Jack and Bore	PO Box 810001, Dallas, TX. 75381	972-241-8686	972-241-5557	
10	North Texas Erosion	Erosion Control	2426 Westwood Avenue, Mesquite, TX. 75150	214-664-9700	214-664-9701	
<u>1</u> 1	Paver Construction	Brick Pavers	PO Box 660, Cedar Hill, TX. 75106	972-299-2246	972-299-2258	
12	Primate Construction	Saw and Seal	PO Box 1509, Humble, TX. 77347	281-441-3355	281-441-3414	
13	Renolds Asphalt & Construction	Asphalt	PO Box 370, Euless, TX. 76039	817-267-3131	817-267-1878	
14	BTA	Striping	PO Box 850 Rockwall, TX. 75087	972-771-3832	972-771-6525	
15	S&J Electric	Electrical	PO Box 121516, Fort Worth, TX. 76121	817-443-3591	817-443-3692	
16	Scott Derr Painting	Paint	PO Box 1848 Friendswood Tx 77549	281-480-0158	281-480-0157	
17	Lone Star Railroad Contractors	Rail Crossings	PO Box 1150, Ennis, TX. 75120	972-878-9500	972-878-9503	
				I		
	Suppliers					
				Ī		
25	CBSI	Strand	245 McCarty Dr., Houston, TX, 77029	713-675-1180	713-675-1140	
27	Gordon Specialties Inc.	SEJ 4"	720 W. Wintergreen Hutchins, Texas 75141	972-225-1660	972-225-6662	
28	Hanson Pipe Products	RCP/RCB	1003 N MacArthur Blvd, Grand Prairie, TX. 75050	972-262-3600	972-266-7456	1,000
29	Hardrock Products	River Cobble	PO Box 1007, Azle, TX. 76020	817-237-9100	817-238-7272	
30	King Fabrication	Steel Arch	19300 West Hardy Road, Houston, TX, 77073	281-209-0811	281-209-1774	
31	Lofland	Rebar	4100 North I-35E, Waxahachie, TX. 75165	972-299-5106	972-938-9419	
32	Martin Marietta	Aggregates	PO Box 2466, Denton, TX. 76202	940-243-8520	940-323-1270	
33	North Texas Trucking	Select Fill	PO Box 542842, Dallas, TX 75354	214-904-8263	214-904-8089	######################################
35	Southern Star Concrete	Concrete	8505 Freeport Pkwy, Irving, TX. 75063	972-621-0345	469-417-1387	1
36	Structural & Steel Products	Metal Deck	1320 S University # 701 Ft Worth Tx 76107	817-332-7417	817-332-2992	
37	Texas Welded Wire	Precast Wall Panels	645 West Hurst Blvd. Hurst, TX. 76053	817-282-4560	817-285-9608	
			A 2 A A A A A A A A A A A A A A A A A A			

What is a second of the second

arapaho Red Phase III -Lig Oliphant Meeting announcement of local businesses impacted give basic info, contacts, ref. wet page. We need, names of addresses of those Posteard update every 3 or 4 months Brod publicity - local news Media Professional Organizations Professionelly Video the sugress Ribbon cutting on completion Interviewes - on Midway Pd-Contact Carrollton of Farmers Branch Individual business impacted (425 days bid)

5350 Belt Line Road

(972) 450-7091

E-mail msuh@ci.addison.tx.us

Facsimile (972) 450-7096

P.O. Box 9010

Addison, Texas 75001

June 22, 2004

Matthew Walsh Archer Western Contractors, Ltd. 2121 Avenue J, Suite 103 Arlington, TX 76006

NOTICE OF AWARD:

Bid 04-22 Arapaho Rd Phase III

Dear Mr. Walsh:

Receipt of this document authorizes your company to provide all labor and materials as outlined in the specifications, and under the terms and conditions of the contract documents for Bid No: 04-22.

Enclosed please find four completed copies of the contract to be signed by an authorized officer or principal of your firm.

Please send the signed contracts along with the necessary insurance certificates and bonds as soon as possible, but no later than July 6, 2004. Once we receive these items a Notice to Proceed will be issued.

If you have any questions or if I can be of assistance to you, please contact me at 972-450-7091.

Sincerely,

Minok Suh Purchasing Coordinator

Enclosures

Copy:

Steve Chutchian Jim Pierce

SECTION CA

CONTRACT AGREEMENT

SECTION CA CONTRACT AGREEMENT

STATE OF TEXAS

COUNTY OF DALLAS

THIS AGREEMENT is made and entered into this 22 day ofJune
WITNESSETH: That for and in consideration of the payment and agreement hereinafter mentioned, to be made and performed by the OWNER, the said CONTRACTOR hereby agrees with the said OWNER to commence and complete construction of certain improvements as follows:
Paving, Storm Sewer, Water, Sanitary Sewer, Signalization and Streetscape Improvements for ARAPAHO ROAD - PHASE III – SURVEYOR BOULEVARD TO ADDISON ROAD
and all extra work in connection therewith, under the terms as stated in the General and Specific Provisions of the AGREEMENT; and at his own proper cost and expense to furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance and other accessories and services necessary to complete the said construction, in accordance with the conditions and prices stated in the Proposal attached hereto and in accordance with the Advertisement for Bids. Instructions to Bidders, General Provisions. Special Provisions. Plans, and other drawings and printed or written explanatory matter thereof, and the Technical Specifications and Addenda thereto, as prepared by the OWNER, each of which has been identified by the endorsement of the CONTRACTOR and the OWNER thereon, together with the CONTRACTOR's written Proposal and the General Provisions, all of which are made a part hereof and collectively evidence and constitute the entire AGREEMENT.
The CONTRACTOR hereby agrees to commence work within ten (10) calendar days after the date of written notice to do so has been given to him, and to complete all work within the number of days he bid (Calendar Days "B") in the proposal after he commences work, subject to such extensions or reductions of time as are provided by these Contract Documents.
The OWNER agrees to pay the CONTRACTOR \$ 16,702,578.42 in current funds for the performance of the Contract in accordance with the Proposal submitted

thereof, subject to additions and deductions, as provided in the General Provisions, and to make payments of account thereof as provided therein.

IN WITNESS THEREOF, the parties of these presents have executed this AGREEMENT in the year and day first above written.

TOWN OF ADDISON (OWNER)	ATTEST:
BY:	
	City Secretary
	Party of the Second Part
	(CONTRACTOR)
ATTEST:	
	Ву:
The following to be executed if the	e CONTRACTOR is a corporation:
I,, ce CONTRACTOR herein; that behalf of the CONTRACTOR	rtify that I am the secretary of the corporation named as, who signed this Contract or of said
corporation; that said Arapaho Ro	ad – Phase III – From Surveyor Boulevard to Addisor or and in behalf of said corporation by authority of its
	Signed:
Corporate Seal	

ACTC PRE-LOIST.

DATE SUBMITTED: June 14, 2004 FOR COUNCIL MEETING: June 22, 2004

Council Agenda Item:

SUMMARY:

This item is for the approval of a Supplemental Contract Amendment with HNTB Corporation, Inc., for engineering services related to materials inspection and testing on the Arapaho Road, Phase III improvements.

FINANCIAL IMPACT:

Cost:

\$99,250.00

Source of Funds:

Funds are available from FY 2002 & 2004 General Obligation

Bond Program (Arapaho Road & Midway Road), DART LAP

Funds, & Dallas County, Project No. 83300.

BACKGROUND:

Bids for the construction of Arapaho Road, Phase III, from Surveyor Blvd. to Addison Road, were recently received and are being submitted for contract award consideration. Based on previous experiences on similar construction projects, it was determined that material testing and inspection should be controlled by the Town in lieu of permitting the Contractor to select his own testing firm and perform all the necessary testing throughout the life of the project. It is important that all testing of subgrades, concrete and bridge improvements be accurate, complete, and all results obtained on a timely basis. With a construction project on the scale of the Arapaho Road bridge and roadway improvements, the Town should be in control of these activities. Consequently, the firm of HNTB Corporation, Inc. submitted a supplemental agreement for all materials testing and inspection for this project, in the amount of \$99,250.00. Rone Engineers is the testing lab that will be performing all testing and inspection, and will submit continuous reports to the Town, under the supervision of HNTB Corporation. Rone Engineers has performed this type of work for the Town of Addison and other surrounding communities with excellent results.

RECOMMENDATION:

Staff recommends that Council authorize the City Manager to enter into a Supplemental Contract amendment with HNTB Corporation, Inc., in the amount of \$99,250.00, for engineering services related to materials inspection and testing on the Arapaho Road, Phase III improvements.

SUPPLEMENTAL AGREEMENT

This Supplemental Agreement, Number 11, to the AGREEMENT FOR ENGINEERING SERVICES, dated January 23, 2001 (the Agreement), between Town of Addison (Owner) and HNTB Corporation (Engineer) is made effective as of the 11th day of June, 2004

- 1. Engineer shall perform the following Services:
 - See Attachment A
- 2. In conjunction with the performance of the foregoing Services, Engineer shall provide the following submittals/deliverables (Documents) to Owner:
 - Test results for documented scope in Attachment A
- 3. Engineer shall perform the Services and deliver the related Documents (if any) according to the following schedule:

There will be no change in the schedule due to the above mentioned items.

In return for the performance of the foregoing obligations, Owner shall pay to Engineer the amount of \$ 99,250, payable according to the following terms:

Payments will be made based upon the provisions of the original contract, with a corresponding increase in the total contract amount to \$1,145,929.00.

Except to the extent modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Town of Addison (Owner)		HNTB Corporation (Engineer)
Signature:	· ·	Signature: Olymphy Kly
Name:	*	Name: Benjamin J. Biller
Title:		Title: Vice President
Date:	•	Date:6/11/2004

ATTACHMENT A

DESCRIPTION	Estimated Quantity
EARTHWORK	•
Moisture Density Relationship ASTM D-698 (each)	4.0
Relative Density ASTM D-4253 (each)	1.0
Moisture Density Relationship TXDOT 113-E (each)	4.0
Atterberg Limits (each)	8.0
Wet Ball Mill Test (each)	2.0
Soil Sulfate Test (each)	26.0
Engineering Technician (hourly)	432.0
Engineering Technician Overtime (hourly)	64.0
In Place Density Test (each)	708.0
Base Depth Checks (each)	26.0
Transportation Charge (trip)	154.0
Engineering & Report Review (hourly)	54.1
Assumptions: 1 density test for every 10,000 square feet of paving subgrade, 1 density test for every 150 lineal feet of trench backfill per lift.	
PIER INSPECTION	
Senior Engineering Technician (hourly)	90.0
Senior Engineering Technician Overtime (hourly)	22.0
Concrete Test Cylinders (each)	44.0
Transportation Charge (trip)	12.0
Engineering & Report Review (hourly)	8.8
Assumptions: 11 days of pier drilling with one technician and 1 drilling rig.	
CONCRETE	
Concrete Mix Design Review (each)	3.0
Concrete Inspection (hourly)	531.0
Concrete Inspection Overtime (hourly)	68.0
Concrete Test Cylinders (each)	448.0
Concrete Test Flexural Beams (each)	580.0
Reinforcing Steel Inspection (hourly)	226.0
Transportation Charge (trip)	147.0
Engineering & Report Review (hourly)	88.2
Structural Steel Inspection (hourly, min. 5 hours)	45,0
Ultrasonic Steel Inspection (hourly, min. 5 hours)	15.0
Transportation Charge (trip)	12.0
Engineering & Report Review (hourly)	6.0
Assumptions: 1 set of 4 concrete test cylinders for every 100 yards of concrete place	ed in structures.
1 set of 4 concrete test flexural beams for every 100 yards of conc	rete placed in

Project Engineering services on materials engineering and testing for consultation shall include analysis, report preparation and review, supervision and scheduling of field and laboratory personnel.

paving. Concrete Inspection time is based on delivery of concrete at 50 yards per

DATE SUBMITTED: June 11, 2004 FOR COUNCIL MEETING: June 22, 2004

Council Agenda Item:

SUMMARY:

This item is for the award of a contract to Archer Western Contractors, Ltd., for construction of Arapaho Road and Bridge, Phase III, from Surveyor Blvd. to Addison Road, including Alternate Bid #1 & #2.

FINANCIAL IMPACT:

Construction Cost:

\$16,702,578.42

Source of Funds:

Funds are available from the FY 2002 & 2004 General Obligation

Bond Program (Arapaho Road & Midway Road), DART LAP

Funds, & Dallas County, Project No. 83300.

BACKGROUND:

The third phase of the proposed Arapaho Road extension project extends from Surveyor Blvd. to Addison Road. Construction of these improvements will complete an east-west minor arterial roadway that is necessary to relieve traffic congestion on Belt Line Road. It is anticipated that the new road will initially absorb approximately 11,000 vehicles per day, with a maximum future count of 15,000 vehicles per day. A proposed signature bridge over Midway Road and a pedestrian trail system are also proposed as an integral part of the roadway section in this phase. The firm of HNTB Corporation acted as the principal designer for this project. Bids were received on June 7, 2004 for construction of the project, and included the following items:

- Roadway Improvements
- Utility Improvements
- Lighting and Signalization Improvements
- Streetscape Improvements
- Bridge Construction
- Bridge Lighting

Attached is a bid tabulation for these improvements. The bid proposal in the specifications for construction was structured to provide an incentive/disincentive method of bidding the project. Specifically, each bid submitted was required to consist of two parts whereby:

- a. The Contractor submits a standard bid (A), which is the summation of the products of the estimated quantities shown in the proposal, multiplied by their bid unit prices.
- b. The Contractor submits a time bid (B), which is the product of the number of calendar days required to construct the project, determined by the Contractor, and the Daily Value established by the Town. The Daily Value was established in the contract at \$4,000. The number of calendar days is intended to include inclement weather, holidays, etc.

The lowest bid (Total) for award of the contract was determined as the lowest sum of the standard bid (A) plus time bid (B). The contract establishes the actual contract amount for payment to the successful contractor to be the value indicated in the standard bid (A). Also included in the bidding process was a provision whereby the Contractor is awarded an incentive payment if construction is completed prior to the number of calendar days he submitted. The total amount of the incentive is the product of the Daily Value (\$4,000) and the number of days the Contractor completes the project prior to the established contract time. Accordingly, the contract provides for a disincentive amount to be established based on the product of the Daily Value (\$4,000) and amount of time that the Contractor exceeds the established contract time. The total incentive payment cannot exceed \$400,000. However, there is no limit to the amount of disincentive reduction (same as liquidated damages) from the Contractor's final payment that the Town will impose for going over the contract time limit.

Archer Western Contractors, Ltd. submitted the lowest Total bid (A + B), in the amount of \$18,098,232.40 and 425 calendar days. The actual amount of the standard bid (A) recommended for award is \$16,398,232.40. In addition, the Engineer estimated that it would take approximately 540 calendar days to complete a project of this magnitude and complexity. The number of calendar days submitted by Archer Western Contractors, Ltd. (425 calendar days) represents a potential reduction of total construction time by approximately 4.0 months. In addition, two alternate bids were received. Alternate bid #1, in the amount of \$339,446.02, provides for the construction of two pocket parks within the project limits. One park would be located on the south side of Arapaho Road and situation on the tract of land once owned by the DGNO Railroad. The other park would be located adjacent to the Surveyor Pump Station and along the north side of the roadway. Alternate bid #2 provides a reduction in cost, in the amount of \$35,100, for elimination of aluminum type street lights along the roadway's length and installation of steel type street lights. The contractor was subject to an extensive reference check by the Engineer and staff, and was found to have successfully completed construction of numerous related improvements in the State and throughout the country.

RECOMMENDATION:

Staff recommends that Council authorize the City Manager to enter into a contract with Archer Western Contractors, Ltd., for Arapaho Road, Phase III, from Surveyor Blvd. to Addison Road, including Alternate Bids # 1 & #2, in the total amount of \$16,702,578.42.

PAVING, UTILITIES, SIGNALIZATION, AND STREETSCAPE BID SCHEDULE SUMMARY ARAPAHO ROAD - PHASE III MARSH LANE TO SURVEYOR BOULEVARD

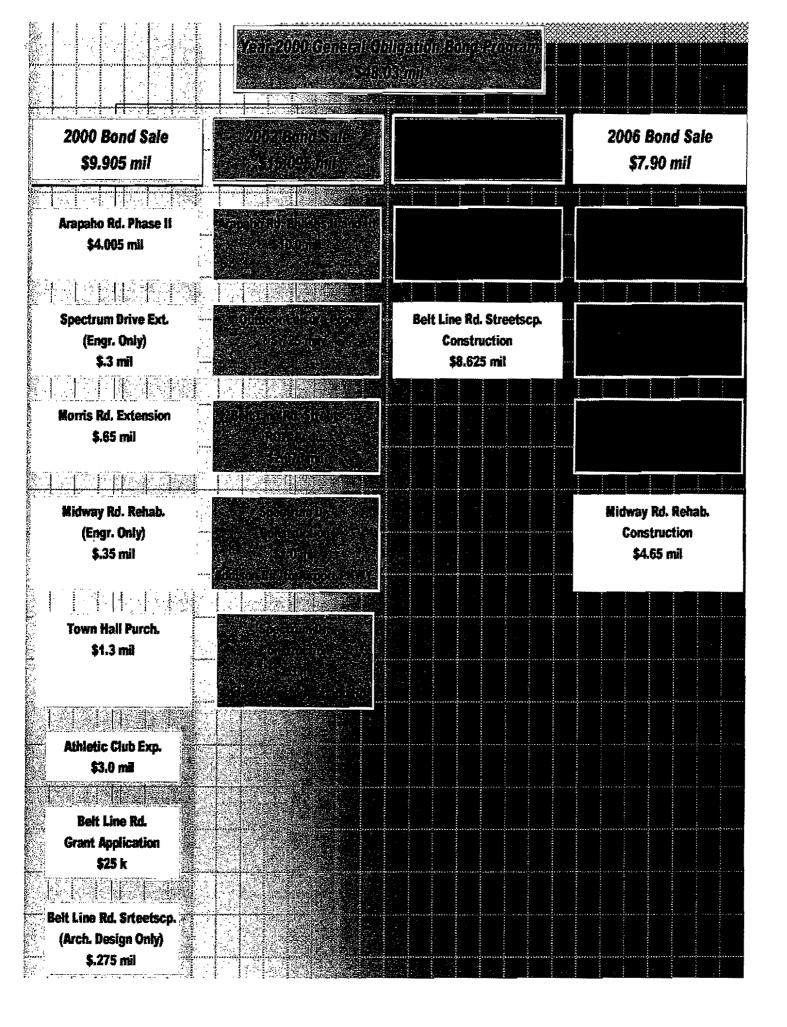
ENGINEER'S ESTIMATE

Bid Schedule & Description		Total Amount Materials & Services		
L	Roadway Improvements	\$	4,886,680.00	
II.	Utility Improvements	\$	3,688,007,00	
ш	Signalization and Lighting	s	864,190.00	
V.	Bridge	5	4,427,693.40	
VL.	Bridge Lighting	s	646,678.25	
VII.	Streetscape	s	1,905,416.60	
	(A) TOTAL BID FOR SCHEDULES I - VIII	\$	16,418,665.25	
	(B) TOTAL DAYS BID @ \$4000			
			TOTAL PROJECT A+B	
VIII.	(A) Alternate Bid 1	\$	340,280.00	
	(B) TOTAL DAYS BID @ \$4000			
			TOTAL PROJECT A+B	
VIII.	(A) Alternate Bid 2	\$	0.00	
	(B) TOTAL DAYS BID @ \$4000			
			TOTAL PROJECT A+B	

	Archer		Orval	Austi	n Bridge		Average Bid
\$	4,947,345.22	\$	7,105,603.70	\$	5,951,268.42	\$	6,000,842.45
		_					
\$	3,741,303.93	\$	4,036,269.65	\$	4,335,466,93	\$	4,037,680.14
\$	614,220.75	\$	637,020.76	\$	677,946.97	\$	643,062.82
**	5,255,580.09	\$	5,825,147.44	Ş	5,229,213.90	\$	6,436,647.14
\$	709,871.75	\$	714,371.75	\$	755,848.19	\$	726,630,56
\$	1,129,910.86	\$	1,254,216.60	\$	1,374,099.16	\$	1,252,742.14
*	16,398,232.40	\$	19,572,528.78		19,323,843,57	\$	19,097,604.25
_	425		550		480		485
\$	1,700,500.00	*	2,290,090.00	*	1,920,000,00	1	1,640,000.00
8	19,098,232.40	\$	21,772,629.79	\$	20,243,843.67		20,038,135.25
\$	339,446.02	\$	356,518.60	\$	428,866,08		374943.5667
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\$	4,900.00	\$	4,000.00	\$	4,000.00		4000
*	343,448.02		380 ,518.60	8	432,888.08	1	378,943.67
\$	(35,100.00)	\$	(35,100.00)	\$	(25,152.00)	\$	(31,784.00)
	1		1		1		1
\$	4,000.00	S	4,000.00	\$	4,000.00	\$	4,000.00
\$	(81,100.00)	*	(31,100.05)	*	(21,162.00)	•	(27,784.00)
\$	18,410,578.42	\$	22,101,948.39	s	20,655,357.85	\$	20,389,294.82

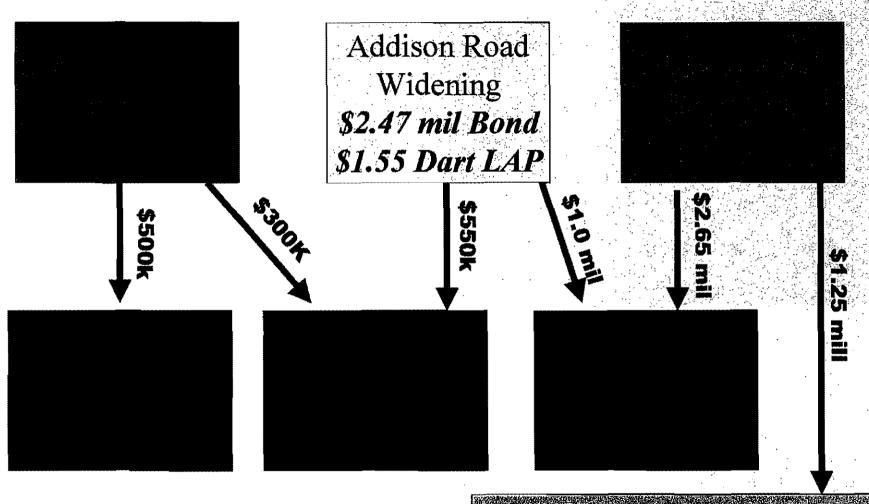
Project Budget	ARAPAHO ROAD, MARSH LANE TO ADDISON ROAD								
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TOTAL COUNTY AVAILABLE DISTRICT TO THE STATE OF THE STATE	Total under available budget	\$1,477,452							
		φ1,411,452							
yellow represents changes in original scope									

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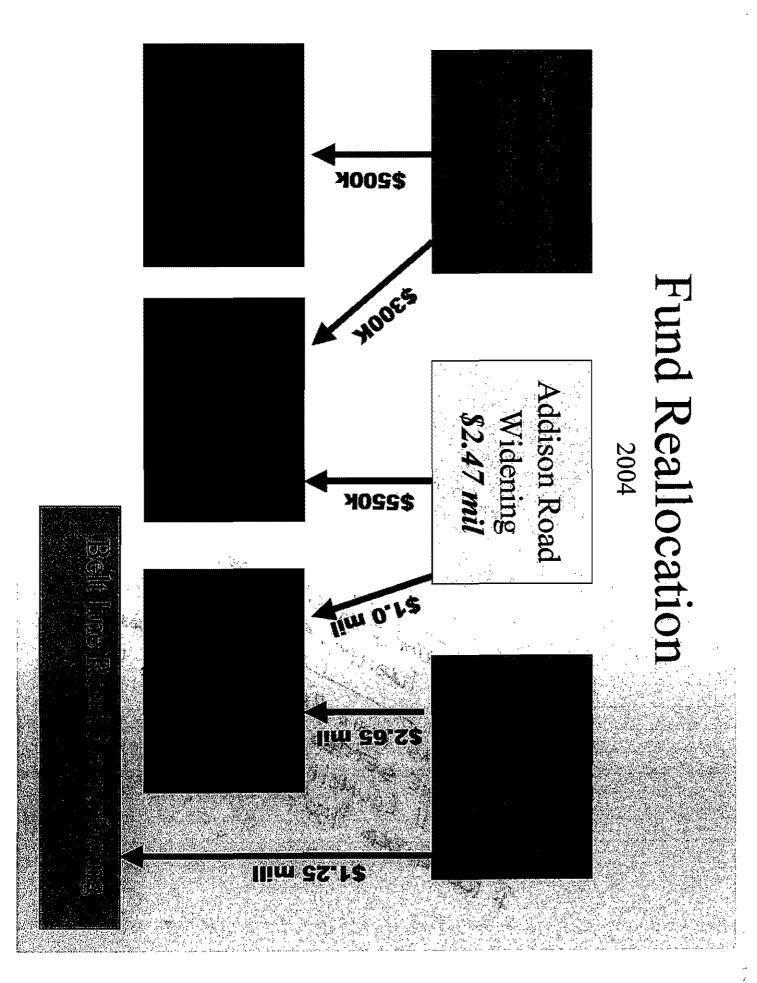


Fund Reallocation

2004



Belt line Road Re-surfacing \$1.25 mill



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June 8, 2004

Town of Addison 16801 Westgrove Drive P.O. Box 9010 Addison, Texas 75001-9010

Attn: Mr. Steve Z. Chutchian, P.E.

ARAPAHO ROAD - PHASE III BID

Dear Steve:

We have reviewed the bids for the referenced project. All three of the bidders attended the required pre-bid conference. The low bidder for the project is Archer Western Contractors, Ltd. Attached are three copies of the bid tab. Numbers highlighted in yellow indicate values that we determined to be incorrect on the bid documents due to mathematical errors. None of the errors were on Archer Western Contractors bid and none of the errors resulted in a change in the low bidder.

As a reminder, item 20 of the Special Provisions in the specifications requires a preconstruction conference to be held. Prior to the meeting the contractor has to deliver a schedule to you that we can discuss at the meeting. Let us know when you schedule this meeting and we will be glad to attend. Thank you for letting us work on this project with you and your staff.

Very truly yours,

HNTB CORPORATION

Jerry D. Holder, Jr., P.E. Director of Municipal Services

JDH/rmh

Enclosure



CHUBB GROUP OF INSURANCE COMPANIES

Surety Department, 15 Mountain View Road, P.O. Box 1615, Warren, NJ 07061-1615 Phone: (908) 903-3485 • Facsimile: (908) 903-3656

FEDERAL INSURANCE COMPANY

BID BOND

Bond No. W-9043

Amount \$

5% of GAB

Know All Men By These Presents,

That we, Austin Bridge & Road, LP

(hereinafter called the Principal),

as Principal, and the FEDERAL INSURANCE COMPANY, Warren, New Jersey, a corporation duly organized under the laws of the State of Indiana, (hereinafter called the Surety), as Surety, are held and firmly bound unto Town of Addison

(hereinafter called the Obligee),

Sealed with our seals and dated this

7th

day of

June, 2004

WHEREAS, the Principal has submitted a bid, dated

for

"Arapaho Road – Phase III – Surveyor Boulevard to Addison Road

Addison, Texas"

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Obligee shall accept the bid of the Principal and the Principal shall enter into a contract with the Obligee in accordance with such bid and give bond with good and sufficient surety for the faithful performance of such contract, or in the event of the failure of the Principal to enter into such contract and give such bond, if the Principal shall pay to the Obligee the difference, not to exceed the penalty hereof, between the amount specified in said bid and the amount for which the Obligee may legally contract with another party to perform the work covered by said bid, if the latter amount be in excess of the former, then this obligation shall be null and void, otherwise to remain in full force and effect.

Austin Bridge & Road, LP

Principal

Jerry Barnes

Vice President

FEDERAL INSURANCE COMPANY

Daniel T. Howard, Attorney-in-Fact



POWER OF ATTORNEY

Federal insurance Company Vigilant Insurance Company Pacific Indemnity Company Attn.: Surety Department 15 Mountain View Road Warren, NJ 07059

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behelf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other then bail bonds) given or executed in the course of business, and any instruments amending or eltering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

in Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 8th day of February, 2002

Kenneth C. Wendel, Assistant Secretary	frank & plutson
Kenneth C. Wandel, Assistant Secretary	Frank E. Robertson, Vice/President

STATE OF NEW JERSEY
County of Somerset

COTARY

UBLIC

On this 8th day of February, 2002 , before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworm, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals and the said saffixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by title authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson and was thereto subscribed by authority of said By-Laws and in deponent's presence.

A Price

Notary Public State of New Jersey No. 2231647

Karlakrice Notary Public

Commission Expires Orgentification

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

(i) the foregoing extract of the By-Laws of the Companies is true and correct,

(ii) the Companies are duty licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treesury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guarn, and each of the Provinces of Canada except Prince Edward Island; and

(iii) the foregoing Power of Attorney is true, correct and in full force and effect

(iii) the foregoing Power of Attorney is true, correct and in full force and effect

(iii) the foregoing Power of Attorney is true, correct and in full force and effect

(iii) the foregoing Power of Attorney is true, correct and in full force and effect

(iii) the foregoing Power of Attorney is true, correct and in full force and effect

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(iii) the foregoing Power of Attorney is true, correct and effect

(iii) the foregoing Power of Attorney is true, correct and effect







Kenneth C. Wendel, Assistant Secretary

Kenneth C. Wender, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

This Notice pertains to the following Surety Bond issued by a member insurer of the Chubb Group of Insurance Companies, including Federal Insurance Company, Vigilant Insurance Company and Pacific Indemnity Company.

POLICYHOLDER DISCLOSURE NOTICE TERRORISM RISK INSURANCE ACT OF 2002

You are hereby notified that pursuant to the Terrorism Risk Insurance Act of 2002 (the "Act") effective November 26, 2002, we are making available to you coverage for losses arising out of certain acts of international terrorism. Terrorism is defined as any act certified by the Secretary of the Treasury, in concurrence with the Secretary of State and the Attorney General of the United States, to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of an air carrier or vessel or the premises of a United States Mission; and to have been committed by an individual or individuals acting on behalf of any foreign person or foreign interest, as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion. Coverage for acts of terrorism is already included in the captioned Surety Bond.

You should know that, effective November 26, 2002, any losses caused by acts of terrorism covered by your Surety Bond will be partially reimbursed by the United States under the formula set forth in the Act. Under this formula, the United States of America pays 90% of covered terrorism losses that exceed the statutorily established deductible to be paid by the insurance company providing the coverage. The portion of your premium that is attributable to coverage for such acts of terrorism is zero, because we could not distinguish (and separately charge for) acts of terrorism from other causes of loss when we calculated your premium.

If you have any questions about this notice, please contact your agent or broker.



SECTION PF PROPOSAL FORM

JUNE 7,2004

TO: The Honorable Mayor and Town Council Town of Addison, Texas

Gentlemen:

The undersigned bidder, having examined the plans, specifications and contract documents, and the location of the proposed work, and being fully advised as to the extent and character of the work, proposes to furnish all equipment and to perform labor and work necessary for completion of the work described by and in accordance with the Plans, Specifications and Contract for the following prices, to wit:

Signed By:

Jerry Barnes

Vice President

ACKNOWLEDGEMENT OF ADDENDA:

The Bidder acknowledges receipt of the following addenda:

Addendum No. 1 Dated: MAY 17, 2004 JWB

Addendum No. 2 Dated: MAY 26, 2004 JWB

Addendum No. 4 Dated: MAY 28, 2004 JWB

Addendum No. 5 Dated: June 3, 2004 JWB

Addendum No. 6 Dated: June 4, 2004 JWB

Addendum No. 7 Dated: June 4, 2004 JWB

PROPOSAL FORM Austin Bridge & Road, LP 6330 Commerce Drive, Suite 150 Irving, Texas 75063

	Place
	Date JUNE 7, 2004
Proposal of	
<u>-</u>	
a Corporation	
organized and existing under the laws of t	the State of
	OR
Proposal of AUSTIN BRIDGE	F FROND LP N BRADGE & ROAD, DWC. SE, DUC.
a partnership consisting of AVSTII	N'BRIDGE & ROAD, DWC.
and AUSTIN BROWZ	E, Duc.
	OR
Proposal of	
an individual trading as	
	OR
Proposal of	
a Joint Venture consisting of	
and	

TO: Town of Addison, Texas

Sealed bids addressed to the Town of Addison, Texas, for the Construction of Paving, Storm Sewer, Water, Sanitary Sewer, Signalization and Streetscape Improvements for ARAPAHO ROAD - PHASE III - SURVEYOR BOULEVARD TO ADDISON ROAD for the Town of Addison, Texas, hereinafter called "Town", in accordance with the plans, specifications and contract documents prepared by HNTB Corporation, will be received at the office of Ms. Minok Suh, Purchasing Coordinator, Finance Building, 5350 Belt Line Road, Addison, Texas until 2:00 p.m. on Thursday, the 7th day of June, 2004. Bids received by the appointed time will be opened and read aloud. Any bids received after stated time will be returned unopened.

The undersigned Bidder, having visited the site of the work, having examined the Plans, Specifications, and other Contract Documents, including all Addenda, and being familiar with all of the conditions relating to the proposed project, hereby proposes to furnish all material, supplies, equipment, and appliances specified for the project and to furnish all labor, tools, equipment and incidentals to complete the work in accordance with the Specifications, and other Contract Documents at and for the unit prices proposed herein:

The undersigned Bidder agrees that this bid may not be withdrawn for a period of sixty (60) days after the opening of the bids.

In submitting this bid, it is understood by the undersigned Bidder that the right is reserved by the Town of Addison to reject any and all bids.

AUSTIN BRIDGE & ROAD, LP
Name of Bidder By: Same
(Signature) Jerry Barnes, Vice President Austin Bridge & Road, Inc. General Partner
(Print Name and Title)
Witness:
(Signature) Austin Bridge & Road, LP 6330 Commerce Drive, Suite 150 Irving, Texas 75063
(Office Address of Bidder)
Bidder's Tax I.D. No. or Employer No
SEAL (If Bidder is a Corporation) NOTES: Sign in ink. Do not detach.

PAVING, UTILITIES, SIGNALIZATION, AND STREETSCAPE BID SCHEDULE SUMMARY ARAPAHO ROAD - PHASE III SURVEYOR BOULEVARD TO ADDISON ROAD

Base Bid Bid Sched	lule & Description	Total Amount Materials & Services
I.	Roadway Improvements	s 5,951,768.42
H.	Utility Improvements	s 4,335, 466, 93
III.	Lighting and Signalization Improvements	s \$ 677, 946. 97 JWB
IV.	Streetscape Improvements	s 1,374,099.16
v.	Bridge Construction	s 5 229 213, 90
VI. ays	Bridge Lighting	s 755 648. 19
	TOTAL BID FOR SCHEDULES I - VI = TOTAL OF STANDARD BID (A)	18,323,643.
	written in words: Eighteen wenty Three Thougand FAHTY Seven Cent	Six Hundred Fort Three Pand
,	TOTAL OF TIME BID	90
	BASIS FOR COMPARISON OF BIDS (A) + (B) = TOTAL BID	57
		Three Dollars and
	Fifty Seven Court	y

DIU OVIII	suate a Descripado	Total Angodic Haterials & Services
VII.	Roadway Lighting	12 565 26
VIII.	Streetscape Improvements	s 431 720. 92
IX.	Deductions if alternative #1 is Accepted	5 - 15 420 10
		·
1	TOTAL BID FOR ADDITIVE ALTERNATE I = TOTAL OF ADDITIVE ALTERNATE BID (A):\$ 428,866 <u>08</u>
	TOTAL OF CALENDAR DAYS x \$4,000 (B): <u> </u>
	BASIS FOR COMPARISON OF BIDS Additive Alternate I (A) + (B) = TOTAL BID	
	WRITTEN IN WORDS: FOUR H	when Twenty Eight Thousan
	Eight Hundred Sixty	STX Dollars and Fight cent.
مدانة الدادة	Alternate II	
	edule & Description	Total Amount Materials & Services
Х.	Roadway Lighting	\$ 341,548 00
XI.	Deductions if alternative #2 is Accepted	\$366,700.
;	TOTAL BID FOR ADDITIVE ALTERNATE II TOTAL OF ADDITIVE ALTERNATE BID (A):\$ -25,152
	TOTAL OF CALENDAR DAYS x \$4,000 (B): <u>Ø</u>
	BASIS FOR COMPARISON OF BIDS Additive Alternate II (A) + (B) = TOTAL BID	
	WRITTEN IN WORDS: Minus	worth Fire Thousand
	- One Hundred Folly	Two Dollars and No outs

NOTES:

- All items, labor, materials, equipment, facilities, incidentals, and work required for construction of the project are to be provided and installed by the Contractor as part of the project and payment for the cost of such shall be included in the price bid for the construction of the project.
- Prices must be shown in words and figures for each item listed in this proposal. In the event of discrepancy, the words shall control.
- 3. It is understood the the Bid Security shall be collected and retained by the Owner as liquidated damages in the event a contract is made by the Owner based on this proposal within ninety (90) calendar days after receiving bids and the undersigned falls to execute the contract and required bonds within ten (10) days from the date the Contractor is notified and has received the conformed documents. After this period, if the contract has been executed and the required bonds have been submitted, the said Bid Security shall be returned to the undersigned upon demand.
- 4. One contract will be awarded based on the total value of items I through VI, (A) plus (B). Contractor will be paid in accordance with A+B Bidding which specifies the contract amount is based on (A) with incentives and disincentives being (B)

Bidder's Tax I.D. No. or Employer No.	5-2846900
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Item Number	Description	Unit Price in Words	1184	Unit Price	Estimated Quantity	Amount Birl
	Mobilization Description	one million nine hundred ninety thousand dollars 00 cents		\$1,990,000.00		\$1,990,000.00
			STA.	\$9,200.00		
	General Site Preparation	nine thousand two hundred dollars 00 cents				\$496,800.00
	Full depth saw cut existing concrete	three dollars 00 cents	L.F.	\$3.00	1564.00	\$4,692.00
	Remove and dispose of existing concrete pavement,		l	n= nn		80004000
	including curb	five dollars 00 cents	S.Y.	\$5.00		
	Remove and dispose of existing concrete sidewalk	ten dollars 00 cents	S.Y.	\$10.00		
	Remove and dispose of existing driveway	ten dollars 00 cents	S.Y.	\$10.00		
	Unclassified street excavation	three dollars 00 cents	C.Y.	\$3.00		
	Embankment	Ihree dollars 60 cents	C.Y.	\$3.60	56000.00	\$201,600.00
	Furnish and place 10" thick reinforced concrete					
	pavement, 5000 psi @ 28 days	forty dollars 00 cents	S.Y.	\$40.00	29400.00	\$1,176,000.00
	Furnish and place 6" thick integral concrete curb, 4000					
	psi @ 28 days	one dollars 05 cents	L.F.	\$1.05	11325.00	\$11,891.25
	Furnish and place monolithic median nose, 4000 psi @					
	28 days	two thousand six hundred dollars 00 cents	EA.	\$2,600.00	8.00	\$20,800.00
	Furnish and place 8" thick reinforced concrete driveway,					
112	4000 psi @ 28 days	forty one dollars 00 cents	S.Y.	\$41.00	450.00	\$18,450.00
	Furnish and place reinforced concrete island, 4000 psi @	F				
113	28 days	forty seven dollars 00 cents	S.Y.	\$47.00		\$14,100.00
114	not used	zero dollars 00 cents	EA.	\$0.00	0.00	\$0.00
	Remove and relocate roadside sign	one hundred eighty dollars 87 cents	EA.	\$180.87	1.00	\$180.87
116	Furnish and install Stop sign (R1-1)	Ihree hundred thirty dollars 74 cents	EA.	\$330.74	2.00	\$661.48
	Furnish and Install Speed Limit sign (R2-1)	three hundred ten dollars 07 cents	EA.	\$310.07	5.00	\$1,550.35
			İ		***************************************	
118	Furnish and install Left Lane Must Turn Left Sign (R3-7L)	three hundred thirty dollars 74 cents	EA.	\$330.74	3,00	\$992.22
	Furnish and install Right Lane Must Turn Right sign (R3-			T. (2000)		
119	7R)	three hundred thirty dollars 74 cents	EA.	\$330.74	2.00	\$661.48
120	Furnish and install Merge Right sign (R4-7)	three hundred ten dollars 06 cents	EA.	\$310.06		\$930.18
	Furnish and install Signal Ahead sign (W3-3)	three hundred seventy six dollars 21 cents	EA.	\$376.21	1.00	
	Furnish and install Wrong Way Sign (R5-1A)	three hundred ten dollars 06 cents	EA.	\$310.06		
	Furnish and install Keep Right sign (R4-7A)	three hundred ten dollars 06 cents	EA.	\$310.06		
	Furnish and install No Parking sign (R8-3A)	three hundred ten dollars 07 cents	EA.	\$310.07	3.00	
	Furnish and install Divided Highway sign (R6-3A)	two hundred seventy six dollars 99 cents	EA.	\$276.99		
	Furnish and install Left Lane Ends sign (R9-2L)	three hundred ten dollars 06 cents	EA.	\$310.06		
	Furnish and install RR XING (W10-1)	three hundred seventy six dollars 21 cents	EA.	\$376.21	4,00	
	Furnish and Install Do Not Stop on Tracks sign (R8-8)	three hundred ten dollars 07 cents	EA.	\$310.07	4.00	
	A THE LEGISLA CONTRACTOR OF SECULAR SECURITIES SEC	I man a man i land land of the same of the		ΨΟ 10.02	7.00	4:,ETU,EU
129	Furnish and install RR XING, Cross Bucks sign (R15-1)	three hundred seventy two dollars 08 cents	EA.	\$372.08	4.00	\$1,488.32
130	Furnish and install 2 Tracks sign (R15-2)	three hundred ten dollars 07 cents	EA.	\$310.07	4,00	
	Furnish and Install One Way sign (R6-1R)	two hundred seventy three dollars 89 cents	EA,	\$273.89		
	Furnish, place and maintain traffic control devices		L.S.	\$68,782.71		

item Number	Description	Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bld
	Furnish and place 4" white/red reflective square acrylic					
		two dollars 47 cents	EA.	\$2.47	550.00	\$1,358.50
	Furnish and place 4" white non-reflective raised ceramic					
134	buttons	one dollars 76 cents	EA,	\$1.76	550.00	\$968.00
	Furnish an place 4" yellow double-reflective square					
135	acrylic buttons	two dollars 47 cents	EA.	\$2.47	497.00	\$1,227.59
136	Furnish and place 6" x 6" white jiggle bar tiles	fourteen dollars 10 cents	EA.	\$14.10	122.00	
137	Remove existing pavement markings and buttons	seven hundred four dollars 84 cents	L.S.	\$704.84		
	Furnish and place pavement directions markers	seventy seven dollars 53 cents	EA.	\$77.53		\$1,705.66
	White thermoplastic reflective pavement marking					
139	("ONLY")	eighty four dollars 58 cents	EA.	\$84.58	16.00	\$1,353.28
140	RR Xing Pavement Markings, as shown on plans	two hundred forty six dollars 69 cents	EA.	\$246.69		
	THE THE PARTY OF T	Signature (or source)	 	33.13.13	7.7.7	- 1,0,0,2
141	Furnish and place 24" solid white thermoplastic stop bar	four dollars 23 cents	L.F.	\$4,23	128.00	\$541.44
142	Furnish and place 4" solid yellow thermoplastic stripe	zero dollars 70 cents	L.F.	\$0.70		\$70.00
	Total City Sides 4 Cold June 11 (1011) Spices Super	1	12011	45.14	100.00	
143	Furnish and place MSE retaining wall TxDOT ITEM 423	thirty three dollars 50 cents	S.F.	\$33.50	15000.00	\$502,500.00
ידין	Furnish and place concrete retaining wall Class F	THE TY RESECTIONS OF CRIES		400.00	10000.00	WOW., OND.
144	Concrete (CIP Wall), F'c=4000 psi	three hundred eighty five dollars 00 cents	C.Y.	\$385.00	950.00	\$365,750.00
145	Structural excavation	twenty dollars 00 cents	C.Y.	\$20.00	463.00	
146	Furnish and place boilards	five hundred dollars 00 cents	EA.	\$500.00		
147	Provide underground electrical service	one hundred thirty four thousand dollars 00 cents	L.S.	\$134,000.00		
141	Furnish and install temporary construction fence (orange	one hundred thirty loar thousand donals do cents	L.O.	\$134,000.00	ļ	\$194,000.00
148	plastic)	nen dellare 25 annte	L.F.	\$1.25	040000	E40 405 00
149	Furnish and Install Pedestrian Rail (TXDOT Item 450)	one dollars 25 cents	L.F.			
149		eighty seven dollars 85 cents	L.F.	\$87.85	690.00	\$60,616.50
4 2" 25	Furnish and install Traffic Rail Type T4 (S) (MOD)			270.05	A THE TOTAL	
150	(TxDOT item 450)	seventy two dollars 35 cents	L.F.	\$72.35	1950.00	\$141,082.50
4 = 4	Furnish an Install Single Guardrall Terminal TxDOT Item	F. 4 1 14 MA	l `			
151	SGT (8)-03A	forty seven dollars 20 cents	L.F.	\$47.20		
152	Furnish and install wheel stops	twenty five dollars 84 cents	EA.	\$25.84		
153	Engineer's Field Office	two thousand dollars 00 cents	Month	V V V V V V V V		
154	not used	zero dollars 00 cents		\$0.00		
155	Install and Furnish Concrete Railroad Crossing	seven hundred fifty dollars 00 cents	L.F.	\$750.00		<u> </u>
156	Deleted	zero dollars 00 cents	L.S.	\$0.00		
157	Deleted	zero dollars 00 cents	L.S.	\$0.00		
158	Deleted	zero dollars 00 cents	L.S.	\$0.00		
159	Deleted	zero dollars 00 cents	L.S.	\$0.00		
160	Deleted	zero dollars 00 cents	L.S.	\$0.00		
161	Unclassified Brickyard excavation	nine dollars 40 cents	C.Y.	\$9.40		
162	Furnish and place 4" white stripe	zero dollars 56 cents	L.F.	\$0.56		
163	Furnish and place 10' chain link fence	thirty six dollars 17 cents	L.F.	\$36.17	110.00	\$3,978.70

	Arapano Road - Phase III					
Item Number	Description	Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bid
			<u> </u>			
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICES	S, SCHEDULE I, ITEMS 101				
	THROUGH 161, INCLUSIVE					\$5,951,268.42
			1			
	Furnish and install 10" PVC SDR 35 sanitary sewer pipe,					
200	including embedment	fifty eight dollars 69 cents	L.F.	\$58.69	1396.00	\$81,931.24
	Furnish and install 12 PVC SDR35 sanitary sewer pipe,					
201	including embedment	sixty four dollars 98 cents	L.F.	\$64.98	1177.00	\$76,481.46
	Furnish and install 4' diameter sanitary sewer manhole,					
202	complete and in place	three thousand thirty nine dollars 26 cents	EA.	\$3,039.26	6.00	\$18,235.56
	Furnish and Install 4' diameter sanitary sewer manhote				>	
203	with internal drop, complete and in place	three thousand nine hundred eighty two dollars 48 cents	EA.	\$3,982.48	4.00	\$15,929.92
	Install and connect various size sanitary sewer services,	The state of the s				
204	including clean-outs, per plans	one thousand one hundred fifty two dollars 82 cents	EA.	\$1,152.82	6.00	\$6,916.92
VV.2.	Furnish and install 24" steel encasement pipe for sanitary	7777711111111				
	sewer lines as shown on the plans, including spacers and			İ		
205	embedment	one hundred dollars 61 cents	L.F.	\$100.61	300.00	\$30,183.00
206	RESERVED	zero dollars 00 cents	1	\$0.00		\$0.00
207	Remove and dispose of existing manhole	six hundred eighty one dollars 21 cents	EA.	\$681.21	5.00	\$3,406.05
	Furnish, install, maintain and remove erosion control		1		İ	1
208	devices	thirty six thousand dollars 00 cents	L.S.	\$36,000.00	1.00	\$36,000.00
209	Remove concrete channel lining	one hundred thousand dollars 00 cents	L.S.	\$100,000.00		
	Remove existing 66" RCP	forty one dollars 92 cents	L.F.	\$41,92		
211	Remove 3-66" Headwall	one thousand four hundred sixty seven dollars 23 cents	EA.	\$1,467.23		
212	Remove 54" headwall and RCP	thirty four dollars 58 cents	L.F.	\$34.58		
213	Remove 9'x5' box culvert	ninety eight dollars 51 cents	L.F.	\$98.51	30.00	\$2,955.30
214	Remove 24" RCP	seven dollars 34 cents	L.F.	\$7.34		
215	Remove 30" RCP	ten dollars 48 cents	L,F.	\$10.48		
216	Remove 30" headwall	five hundred twenty four dollars 01 cents	EA.	\$524.01		
217	Remove CMP and headwall	twelve dollars 58 cents	L.F.	\$12.58		
218	Remove 2-4x2' headwall	six hundred twenty eight dollars 81 cents	EA.	\$628.81		
219	Salvage Fire hydrant and valve	four hundred nineteen dollars 21 cents	EA.	\$419.21		
220	Construct concrete pilot channel	forty seven dollars 16 cents	S.Y	\$47.16		
221	8' standard curb inlet	one thousand eight hundred eight dollars 71 cents	EA.	\$1,808.71		
222	10' standard curb inlet	two thousand forty six dollars 43 cents	EA.	\$2,046.43		
223	12' standard curb inlet	two thousand three hundred ninety seven dollars 83	EA.	\$2,397.83		
224	8' Recessed curb inlet	one thousand eight hundred eight dollars 71 cents	EA.	\$1,808.71		
225	10' Recessed curb inlet	two thousand forty six dollars 43 cents	EA.	\$2,046.43		
226	2-8' Recess curb inlet	three thousand seven hundred twenty dollars 78 cents	EA.	\$3,720.78		
227	10' modified curb inlet	two thousand five hundred eighty three dollars 88 cents	EA.	\$2,583.88		
228	2-Grate Inlet	two thousand three hundred seventy seven dollars 17	EA.	\$2,377.17		

	Arapano Roau - Filase III					
Item Number	<u>Description</u>	Unit Price in Words		Unit Price	Estimated Quantity	
229	"Y" inlet	one thousand four hundred forty six dollars 97 cents	EA.	\$1,446.97	13.00	
230	1'x1' grate inlet	two thousand sixty seven dollars 10 cents	EA.	\$2,067.10	1.00	
231	Double 10'x6' PW Wingwall for one end treatment	four hundred forty five dollars 41 cents	EA.	\$445.41	1.00	
232	1-6'x5' PW Wingwall for one end treatment	four hundred forty five dollars 41 cents	EA.	\$445.41	1.00	\$445.41
233	30" Type "A" headwall	one thousand thirty three dollars 55 cents	EA.	\$1,083.55	1.00	\$1,033.55
234	36" Type "B" headwall	one thousand two hundred forty dollars 26 cents	EA.	\$1,240.26	1.00	\$1,240.26
235	Box Culvert Storm Manhole	nine hundred forty three dollars 22 cents	EA.	\$943.22	6.00	\$5,659.32
236	Type A storm sewer manhole	one thousand nine hundred sixty three dollars 75 cents	EA.	\$1,963.75	1.00	\$1,963.75
237	18" RCP storm sewer pipe	forty one dollars 92 cents	L.F.	\$41.92	8.00	\$335.36
238	21"RCP storm sewer pipe	forty six dollars 11 cents	L.F.	\$46.11	914.00	\$42,144.54
239	24"RCP storm sewer plpe	fifty dollars 30 cents	L.F.	\$50.30	925.00	\$46,527.50
240	30"RCP storm sewer pipe	sixty two dollars 88 cents	LF.	\$62.88	583.00	\$36,659.04
241	36" RCP storm sewer pipe	eighty five dollars 94 cents	L.F.	\$85.94	40.00	\$3,437.60
242	54"RCP storm sewer pipe	one hundred fifty five dollars 11 cents	L.F.	\$155.11	19.00	
243	60*RCP storm sewer pipe	one hundred seventy eight dollars 16 cents	L.F.	\$178.16	6.00	\$1,068.96
244	4'X2' box culvert	one hundred thirty six dollars 24 cents	L.F,	\$136.24	24.00	
245	6'X3' box cuivert	two hundred fifteen dollars 89 cents	L.F.	\$215.89	244.00	
246	6'X5' box culvert	two hundred sixty nine dollars 34 cents	L.F.	\$269.34	112.00	\$30,166.08
247	7'X5' box culvert	three hundred fifteen dollars 45 cents	L.F.	\$315.45	260.00	\$82,017.00
248	8'X5' box culvert	three hundred thirty eight dollars 51 cents	LF.	\$338.51	590.00	\$199,720.90
249	9'X5' box culvert	three hundred eighty five dollars 67 cents	L.F.	\$385.67	4516.00	\$1,741,685.72
250	10'X5' box culvert	four hundred fifty nine dollars 03 cents	LF.	\$459.03	512.00	\$235,023,36
251	10'X6' box culvert	five hundred eight dollars 29 cents	L.F.	\$508.29	1395.00	\$709,064.55
252	21" RCP w/36" steel encasement by bore and jack	four hundred thirty one dollars 78 cents	L.F.	\$431.78	48.00	\$20,725.44
253	24" RCP w/36" steel encasement by bore and jack	four hundred thirty seven dollars 02 cents	L.F.	\$437.02	42.00	\$18,354.84
254	30" RCP w/42" steel encasement by bore and jack	five hundred thirty nine dollars 73 cents	L.F.	\$539.73	38.00	
255	4" schedule 40 PVC pipe	thirty six dollars 68 cents	L.F.	\$36.68	1572.00	\$57,660.96
256	8" schedule 40 PVC pipe	forty one dollars 92 cents	L.F.	\$41.92	15.00	\$628.80
257	PVC Fittings for Schedule 40 PVC pipe	three thousand one hundred forty four dollars 06 cents	L.S.	\$3,144.06	1.00	\$3,144.06
258	12" HDPE storm sewer pipe	forty six dollars 11 cents	L.F.	\$46.11	124.00	\$5,717.64
	10" Reinforced Concrete Pavement					
	sawcul/removal/replacement at Surveyor Blvd. and				,	
259	Midway Road (including Midway Road median)	seventy eight dollars 60 cents	S.Y	\$78.60	510,00	\$40,086.00
	8" Reinforced Concrete Parking Lot					
260	sawcut/removal/replacement at Pump Station	forty seven dollars 16 cents	S.Y	\$47.16	45.00	\$2,122.20
261	Fire Hydrant (including 6" water lead and valve)	four thousand one hundred ninety two dollars 08 cents	EA.	\$4,192.08	1,00	\$4,192.08
262	8" C909 PVC Class 150 waterline	forty seven dollars 16 cents	L.F.	\$47.16	85.00	\$4,008.60
	60" RCCP water lowering including but not limited to all					
	thrust blocking, fittings, and appurtenances (per DWU		I			
263	standards)	one thousand nine hundred seven dollars 40 cents	LF	\$1,907.40		\$152,592.00
264	16" C900 PVC Class 150 Water lowering	two hundred thirty five dollars 80 cents	LF	\$235.80	30.00	\$7,074.00

	Arapano Road - Phase III					
Item Number	Description	Unit Price In Words	UM	Unit Price	Estimated Quantity	Amount Bld
265	8" C909 PVC Class 150 waterline lowering	one hundred thirty one dollars 00 cents	LF	\$131.00	40.00	
266	Trench Safety	one dollars 05 cents	LF	\$1.05	14536.00	\$15,262.80
267	Sadiment removal, Inside 66" RCP	sixty eight dollars 12 cents	CY	\$68.12		
268	Remove 9'x5' Headwall on West Side of Midway Road	one thousand four hundred sixty seven dollars 23 cents	EA	\$1,467.23	1.00	\$1,467.23
	Preparation and Implementation of SWPPP, per	one hundred fifteen thousand nine hundred four dollars				
269	specifications and TCEQ requirements	17 cents	LS	\$115,904.17	1.00	\$115,904.17
270	60" Butterfly Valve and Appurtenances, per plans	eighty nine thousand eighty one dollars 67 cents	LS	\$89,081.67	1.00	\$89,081.67
271	Grouted Riprap	forty one dollars 92 cents	SY	\$41.92	750.00	\$31,440.00
7	Temporary 8" thick Asphalt Pavement (2" HMAC Type D,					
272	6" HMAC Type B) per Traffic Control Plan	thirty eight dollars 41 cents	SY	\$38.41	500.00	\$19,205.00
				<u> </u>		
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICE	S, SCHEDULE II, ITEMS 200	ļ			
	THROUGH 272, INCLUSIVE		<u> </u>			\$4,335,466.93
301	Traffic Signals - Arapaho Road at Addison Road	twenty four thousand four hundred eighty four dollars 80	L.S.	\$24,484.80	1.00	\$24,484.80
302	Traffic Signals - Arapaho Road at Surveyor Blvd		IL.S.	\$11,177,84		
303	Conduit, 2" schedule 40 PVC	five dollars 32 cents	L.F.	\$5.32	1	\$58,535.96
304	Conduit, 2" schedule 40 PVC, bored and trenched	twenty one dollars 29 cents	L.F.	\$21.29		
305	Conduit, 4" schedule 40 PVC, bored and trenched	twenty one dollars 29 cents	L.F.	\$26.61		
306	Conduit (RM) (1-1/2")	twenty one dollars 29 cents	L.F.	\$20.61		
307	35' 3" street light pole	two thousand one hundred twenty nine dollars 11 cents	EA.	\$2,129.11	9.00	\$19,161.99
308	Pedestrian base and light pole	three thousand six hundred nineteen dollars 49 cents	EA.	\$3,619.49	<u> </u>	
309	Combination, street light w/ pedestrian fixture		EA.			
310	<u> </u>	nine thousand forty eight dollars 73 cents		\$9,048.73		
	Retaining Wall Mounted Light Pole	seven thousand six hundred sixty four dollars 81 cents	EA.	\$7,664.81	4.00	\$30,659.24
311	70W wall mounted luminaire fixture	seven thousand one hundred eighty five dollars 76 cents	EA.	\$7,185.76		
312	Cable, insulated, #6 AWG	one dollars 06 cents	L.F.	\$1.06		
313	Cable, insulated, #8 AWG	zero dollars 90 cents	L.F.	\$0.90		
314	Bare ground, #8 AWG	zero dollars 90 cents	L.F.	\$0.90		\$346.50
315	Bare ground, #6 AWG	one dollars 06 cents	L.F.	\$1.06		\$12,034.18
316	Cable, insulated #4 AWG	one dollars 06 cents	L.F.	\$1.06		\$826.80
317	Bare ground, #4 AWG	one dollars 06 cents	L.F.	\$1.06		
318	Foundation, 35'3" street light pole	eight hundred fifty one doltars 65 cents	EA.	\$851.65		\$17,884.65
319	Foundation, pedestrian light pole	eight hundred fifty one dollars 65 cents	L.F.	\$851.65		
320	Ground mounted pullbox, Type A	five hundred thirty two dollars 28 cents	EA.	\$532.28		
321	Ground mounted pullbox, Type C	five hundred thirty two dollars 28 cents	EA.	\$532.28		
322	Lighting control cabinet	six thousand three hundred eighty seven dollars 34 cents	EA.	\$6,387.34	3.00	\$19,162.02
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICE	S SCHEDULE III ITEMS 301	 	<u> </u>		
	THROUGH 322, INCLUSIVE	The state of the s	 		<u> </u>	\$677,946.97
	1 and the same state of t		 	 		WILL 1.040.01
401	Furnish and install Shumard Oak (4" cal.)	seven hundred eighteen dollars 83 cents	EA.	\$718.83	36.00	\$25,877.88

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	Arapano Road - Phase III			_		
Item Number	Description	Unit Price in Words	UM	Unit Price	Estimated Quantity /	
402	Furnish and Install Shantung Maple (3" cal.)	three hundred eighty seven dollars 06 cents	EA.	\$387.06	37.00	\$14,321.22
403	Furnish and install Savannah Holly (30 gal. specimen)	two hundred ten dollars 12 cents	EA.	\$210.12	105.00	\$22,062.60
	All Marian Control of the Control of					
404	Furnish and Install Vitex/Chaste Tree (30 gal. Specimen)	two hundred fifty four dollars 36 cents	EA.	\$254.36	8.00	\$2,034.88
	Furnish and install Crape Myrtle (30 gal.)	one hundred eighty eight dollars 00 cents	EA.	\$188.00	43.00	\$8,084.00
406	Furnish and install Dwarf Burford Holly (5 gal.)	seventeen dollars 69 cents	EA.	\$17.69		\$3,980.25
407	Furnish and Install Fringe Flower (5 gal.)	nineteen dollars 91 cents	EA.	\$19.91	108.00	\$2,150.28
408	Furnish and Install Harbor Dwarf Nandina (3 gal.)	sixteen dollars 59 cents	EA.	\$16.59	263.00	\$4,363.17
409	Furnish and install Mary Nell Holly (5 gal.)	nineteen dollars 91 cents	EA.	\$19.91	178.00	\$3,543.98
410	Furnish and install purple wintercreeper (1 gal.)	six dollars 19 cents	EA.	\$6.19		\$10,690,13
	Furnish and Install Asian Jasmine (1 gal.)	two dollars 32 cents	EA.	\$2.32	14706.00	\$34,117.92
412	Furnish and install Indian Grass (5 gal)	twenty two dollars 12 cents	EA.	\$22.12	66.00	\$1,459.92
413	Furnish and install Bushy Bluestern Grass (5 gal)	twenty two dollars 12 cents	EA.	\$22.12	130.00	\$2,875.60
414	Furnish and install Little Bluestern Grass (3 gal)	seventeen dollars 69 cents	EA.	\$17.69	615.00	\$10,879.35
415	Furnish and install Lindheimer's Muhly (3 gal)	seventeen dollars 69 cents	EA.	\$17.69	104.00	\$1,839.76
416	Furnish and place solid sod (Bermuda)	two dollars 49 cents	S.Y	\$2.49	12800.00	\$31,872.00
417	Furnish and place Hydromulch (Bermuda)	zero dollars 06 cents	S.F.	\$0.06	105082.00	\$6,304.92
418	Furnish and install tree protection	one dollars 66 cents	L.F.	\$1.66	4000.00	\$6,640.00
419	Furnish and place compost in turf areas (sod only)	thirty three dollars 18 cents	C.Y.	\$33.18	363.00	\$12,044,34
420	Furnish and Install finely shredded hardwood bark mulch	thirty three dollars 18 cents	C.Y.	\$33.18	346.00	\$11,480.28
421	Furnish and Install bed preparation with compost	thirty five dollars 39 cents	C.Y.	\$35.39	346.00	\$12,244.94
422	Furnish and install imigation system, turnkey	one hundred forty seven thousand seven hundred twenty	L.S.	\$147,725.92	1.00	\$147,725.92
423	Furnish and install crosswalk brick pavers (see specs)	thirteen dollars 87 cents	S.F.	\$13.87	2016.00	\$27,961,92
424	Furnish and install median pavers (see specs)		IS.F.	\$18.33	3724.00	\$68,260.92
425	Furnish and install walkway pavers (see specs)	fourteen dollars 16 cents	S.F.	\$14.16	4472.00	\$63,323.52
426	Furnish and place 5" reinforced concrete paving	three dollars 69 cents	S.F.	\$3.69	43207.00	\$159,433.83
427	Furnish and place 5" reinforced concrete path	three dollars 69 cents	S.F.	\$3.69	28845.00	\$106,438.05
428	Furnish and place 12" concrete bands	nine dollars 64 cents	L.F.	\$9.64	2396.00	\$23,097.44
429	Embankment	eighteen dollars 51 cents	C.Y.	\$18.51	248.00	\$4,590.48
430	Furnish and install flush concrete stripe (2'x10')	ten dollars 28 cents	S.F.	\$10.28	20.00	\$205.60
431	Furnish and place decomposed granite paving	two dollars 76 cents	S.F.	\$2.76	32488.00	\$89,666.88
ļ						
432		four hundred fourteen dollars 71 cents	C.Y.	\$414.71	59.00	\$24,467.89
433	Furnish and install flagstone paving	twenty dollars 53 cents	S.F.	\$20.53	6100.00	\$125,233.00
434	Furnish and install ADA ramp	one thousand one dollars 51 cents	EA.	\$1,001.51	7.00	\$7,010.57
435	Furnish and install tree grate	one thousand six hundred lifty eight dollars 85 cents	EA.	\$1,658.85	22.00	\$36,494.70
436	Furnish and place concrete banches (18" ht)	six hundred twenty nine dollars 47 cents	EA.	\$629.47	3.00	\$1,888.41
437	Furnish and install CMU wall (includes footing)	fifty one dollars 47 cents	L.F.	\$51.47	144.00	\$7,411.68
438	Furnish and Install brick veneer (see specs)	four dollars 71 cents	S.F.	\$4.71	608.00	\$2,863.68
439	Furnish and instalt cast stone cap	twenty two dollars 39 cents	L,F,	\$22.39	144.00	\$3,224.16

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	Arapano Roau - Filase III					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Item Number	Description	Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bld
					-	
440	Furnish and install modular retaining wall system (Mesa)	nineteen dollars 91 cents	S.F.	\$19.91		
441	Fumish and install security fence on retaining wall	one hundred twenty one dollars 53 cents	L.F.	\$121.53		
442	Furnish and install decorative metal fence	one hundred nineteen dollars 54 cents	L.F.	\$119.54		
443	Furnish and install decorative metal gate	eight thousand seven hundred eighty five dollars 18 cents	EA.	\$8,785.18	1.00	
444	Furnish and place brick columns	nine hundred ninety five dollars 31 cents	EA.	\$995.31	6.00	\$5,971.86
	Furnish and Install pedestal voice communication unit					
445	(inlcu	ten thousand three hundred thirty five dollars 50 cents	EA.	\$10,335.50	3.00	\$31,006.50
446	Furnish and install steel edging	two dollars 49 cents	L.F.	\$2.49	484.00	\$1,205.16
		14-5-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICE	S, SCHEDULE IV, ITEMS 401				
	THROUGH 446, INCLUSIVE					\$1,374,099.16
			 			
501	48" Dia. Concrete Drilled Shaft (TXDOT Item 416)	one hundred forty nine dollars 51 cents	LF	\$149.51	147.00	\$21,977.97
502	60" Dia. Concrete Drilled Shaft (TXDOT Item 416)	two hundred forty dollars 75 cents	LF	\$240.75	312,00	
503	96" Dia. Concrete Drilled Shaft (TXDOT Item 416)	five hundred thirty eight dollars 81 cents	LF	\$538.81	365.00	\$196,665.65
	Cast-in-Place Concrete Abutment (TXDOT Item 420)		1=1	**************************************		7.00,000.00
504	(Class F Concrete - 5000 psf)	four hundred seventy six dollars 25 cents	CY	\$476.25	79.30	\$37,766.63
1001	Cast-In-Place Concrete Bents 2-8 & 1-14 (TXDOT Item	sweet a management was control of the sweet and security	-			401,100.00
505	420) (Class F Concrete - 5000 psf)	six hundred five dollars 47 cents	CY	\$605.47	1037.50	\$628,175.13
-	Cast-in-Place Concrete Bents 9 & 10 (TXDOT Item 420)	Oly statement and modern of the card	<u> </u>	4000.11	1003.00	Ψ0.Ε 0, 110.10
506	(Class F Concrete - 5000 psf)	four hundred eighty three dollars 01 cents	CY	\$483.01	505.20	\$244,016.65
7 50	Cast-In-Place Concrete Diaphragm (TXDOT Item 420)	TOTAL TOTAL CONTROL OF THE STATE OF THE STAT	1		JGG,29	Ψ4.77,Ω10.00
507	(Class-F Concrete - 5000 psf)	one thousand two hundred ninety two dollars 92 cents	CY	\$1,292,92	99,40	\$128,516.25
301	Construct Reinforced Concrete Slab (TXDOT Item 422)	One tributation wo helities timety two socials as conto	<u>`</u>	# # # # # # # # # # # # # # # # # # #	33.40	ψ120 ₁ 0 (0,20
508	(Class S Concrete)	eleven dollars 73 cents	SF	\$11.73	83680.00	\$981,566.40
300	Precast Prestressed Concrete Members (TXDOT Item	Cicycii uviidis / 5 Ceilla	Sr	4	90090.00	\$501,000.40
509	425) (U54 Beams)	two hundred furbuses on dellars 97 pents	LF	694767	2000 00	ድ 4 ድስብ ዓይስ ፈሳ
510	Concrete Surface Treatment (TXDOT Item 428)	two hundred forty seven dollars 87 cents zero dollars 78 cents	SY	\$247.87 \$0.78	9298.00	\$1,509,280.43
511	Structural Steel fro Steel Arch (TXDOT Item 442)	four dollars 40 cents	LB	\$4,40		
512	Structural Steel for Steel Stinger (TXDOT item 442)	three dollars 45 cents	LB			
012	Furnish, Install & Tension Structural Strands, 2 1/2" Dia	one hundred fifty six thousand six hundred forty three	LB	\$3.45	12701.00	\$43,818.45
513	(Tech Spec SSH)	dollars 42 cents	LS	\$156,643.42	4.00	8450 940 4B
514 514	Pedestrian Rail (TXDOT 450)	eighty six dollars 27 cents	LS LF			
515	Traffic Rail Type T4 (S) (MOD) "A" (TXDOT Item 450)		LF	\$86.27		
516	Traffic Rail Type T4 (S) (MOD) "B" (TXDOT item 450)	seventy dollars 93 cents	LF	\$70.93		
517	Sealed Expansion Joint (4") (TXDOT Item 454)	seventy dollars 93 cents	LF	\$70.93		
518		seventy eight dollars 54 cents		\$78.54		
519	Structural Approach Stab (TXDOT ITEM 442)	two hundred seventy five dollars 35 cents	CY	\$275.35		
520	"Addison" Logo Form Liner	twelve thousand four hundred two dollars 60 cents	LS	\$12,402.60		
220	Standard 24" x 24" Monument Plaque	two thousand five hundred eighty three dollars 88 cents	EA	\$2,583.88	2.00	\$5,167.76
			<u> </u>			

	Arapano Road - Phase III						
item Number	Description	Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bid	
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICES	S, SCHEDULE V, ITEMS 501					
	THROUGH 520, INCLUSIVE					\$5,229,213.90	
	Furnish & Install Conduit, 3/4" schedule 40 PVC	three dollars 19 cents	LF	\$3.19	3870.00	\$12,345.30	
602	Furnish & Install Conduit, 2" schedule 80 PVC	six dollars 39 cents	LF	\$6.39	760.00	\$4,856.40	
603	Furnish & Install Conduit, 3/4" schedule 40 RMC	ten dollars 65 cents	LF	\$10.65	3620.00	\$38,553.00	
604	Furnish & Install Conduit, 1" schedule 40 RMC	ten dollars 65 cents	LF	\$10.65	150,00		
605	Furnish & Install Electrical Conductor, #2, Bare	two dollars 13 cents	LF	\$2.13	450.00	\$958.50	
606	Furnish & Install Electrical Conductor, #2, Insulated	two dollars 13 cents	LF	\$2.13	1000.00	\$2,130.00	
607	Furnish & Install Electrical Conductor, #6, Bare	one dollars 06 cents	LF	\$1.06	1040.00	\$1,102.40	
608	Furnish & Install Electrical Conductor, #6, Insulated	one dollars 06 cents	LF	\$1,06	3680.00	\$3,900.80	
609	Furnish & Install Electrical Conductor, #8, Bare	zero dollars 90 cents	LF	\$0.90	1485.00	\$1,336.50	
610	Furnish & Install Electrical Conductor, #8, Insulated	zero dollars 90 cents	LF	\$0.90	3130.00	\$2,817.00	
611	Furnish & Install Electrical Conductor, #10, Bare	zero dollars 48 cents	LF	\$0.48	4630.00	\$2,222.40	
612	Furnish & Install Electrical Conductor, #10, Insulated	zero dollars 48 cents	LF	\$0.48	10410.00	\$4,996.80	
613	Furnish & Install Electrical Conductor, #12, Bare	zero dollars 37 cents	LF	\$0.37	3420.00	\$1,265.40	
614	Furnish & Install Electrical Conductor, #12, Insulated	zero dollars 37 cents	LF	\$0.37	6840.00	\$2,530.80	
615	Fumish and install Ground Box (Type E)	five hundred thirty two dollars 28 cents	EA	\$532.28	9.00		
616	Furnish and install Junction Box	one hundred fifty nine dollars 68 cents	EA	\$159.68		\$8,303.36	
617	Furnish and Install Fused Disconnects	eight hundred fifty one dollars 65 cents	EA	\$851.65	3.00	\$2,554.95	
618	Furnish and install Pedestal Service & Foundation	six thousand three hundred eighty seven dollars 34 cents	EA	\$6,387.34	1.00	\$6,387.34	
		twelve thousand seven hundred seventy four dollars 68					
619	Furnish and Install Load Distribution Center & Foundation	cents	EA	\$12,774.68	2.00	\$25,549.36	
	Furnish and install 120v Weatherproof Duplex						
620	Receptacles	two hundred twelve dollars 91 cents	EA	\$212.91	12.00	\$2,554.92	
621	Furnish and Install LED Drivers	one thousand sixty four dollars 56 cents	EA	\$1,064.56	36.00	\$38,324.16	
	Furnish and install Fixtures & Mounting Type "A-1A" Arch		1				
622	Floodlight w/ Baffles, 175w	five thousand three dollars 42 cents	EA	\$5,003.42	2.00	\$10,006.84	
	Furnish and install Fixtures & Mounting Type "A-1B" Arch		1				
623	Floodlight w/ Baffles, 250w	five thousand one hundred sixty three dollars 10 cents	EA	\$5,163.10	4.00	\$20,652.40	
	Furnish and Install Fixtures & Mounting Type "A-1C" Arch	M. M. M. M. M. M. M. M. M. M. M. M. M. M	}		A.A.A.A.A.A.A.A.	11	
624	Floodlight w/ Baifles, 400w	five thousand four hundred twenty nine dollars 24 cents	EA	\$5,429.24	3,00	\$16,287.72	
	Furnish and install Fixtures & Mounting Type "A-2A" Arch		Ì				
625	Floodlight, 175w	four thousand three hundred sixty four dollars 68 cents	EA	\$4,364.68	2.00	\$8,729.36	
	Furnish and install Fixtures & Mounting Type "A-1B" Arch	**************************************	**************************************	- American			
626	Floodlight, 250w	four thousand five hundred twenty four dollars 37 cents	EA	\$4,524.37	4.00	\$18,097.48	
	Furnish and install Fixtures & Mounting Type "A-2C" Arch	The state of the s	1				
627	Floodlight , 400w	four thousand seven hundred ninety dollars 50 cents	EA	\$4,790.50	3.00	\$14,371.50	
	Furnish and install Fixtures & Mounting Type "B", Blue	The second secon	1			4	
628	LED Marker Light	five thousand eight hundred fifty five dollars 06 cents	EA	\$5,855.06	22.00	\$128,811.32	

	Arapano Roau - Phase III					
item Numb		Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bid
	Furnish and install Fixtures & Mounting Type "C-1", LED		1			
629	Linear Grazing Accent, 18"	one thousand sixty four dollars 56 cents	EA	\$1,064.56	54.00	\$57,486.24
	Furnish and install Fixtures & Mounting Type "C-2", LED					
630	Linear Grazing Accent, 12°	one thousand sixty four dollars 56 cents	EA	\$1,064.56	54.00	\$57,486.24
	Furnish and install Fixtures & Mounting Type "D",					
631	Induction Area Light	one thousand eight hundred sixty two dollars 97 cents	EA	\$1,862.97	48.00	\$89,422.56
	Furnish and install Fixtures & Mounting Type "E-1",					
632	Stinger Lighting, Deck Mount	two thousand four hundred forty eight dollars 48 cents	EA	\$2,448.48	2.00	\$4,896.96
	Furnish and install Fixtures & Mounting Type "E-2",					
633	Stinger Lighting, Triangular Bent Mount	two thousand four hundred forty eight dollars 48 cents	EA	\$2,448.48	2.00	\$4,896.96
	Furnish and install Fixtures & Mounting Type "F",			}		
634	Roadway Lighting, 20' Height	five thousand one hundred nine dollars 87 cents	EA	\$5,109.87	20.00	\$102,197.40
	Furnish and install Fixtures & Mounting Type "G",					
635	Roadway Lighting, 35' Height	five thousand three hundred twenty two dollars 78 cents	EA	\$5,322.78		\$47,905.02
636	Grounding of Steel Structures	five thousand three hundred twenty two dollars 78 cents	LS	\$5,322.78	1.00	\$5,322.78
			1			·
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICES	S, SCHEDULE VI, ITEMS 601				
	THROUGH 636, INCLUSIVE					\$ 755,648.19
				80 400 000		20 004 01
701 702	Pedestrian base and light pole	three thousand one hundred ninety three dollars 67 cents		\$3,193.67	3,00	\$9,581.01
	Foundation, pedestrian light pole	eight hundred fifty one dollars 65 cents	EA.	\$851.65		\$2,554.95
703	Bare ground, #6 AWG	one dollars 06 cents	L.F.	\$1.06		\$143.10
704	Cable, insulated #6 AWG	one dollars 06 cents	L.F.	\$1.06	270.00	\$286.20
	TOTAL AMOUNT BID FOR MATERIALS AND SERVICE:	S SCHEOULE VILITEMS 701			anamatantanta A.	
	THROUGH 704, INCLUSIVE	Transfer to the transfer to the state of the				\$12,565.26
	7777777					Abusing delicent statements.
801	Furnish and install Shantung Maple (3" cal.)	three hundred seventy four dollars 50 cents	EA.	\$374.50	22.00	\$8,239.00
802	Furnish and install Vitex/Chaste Tree (30 gal. Specimen)	two hundred forty six dollars 10 cents	EA.	\$246.10	9.00	\$2,214.90
803	Furnish and install Wildflower Mix (seed)	zero dollars 16 cents	S.F.	30.16		\$422,72
804	Furnish and install Indian Grass (5 gal)	twenty one dollars 40 cents	EA.	\$21.40		\$192.60
805	Furnish and Install Little Bluestern Grass (3 gal)	seventeen dollars 12 cents	EA.	\$17.12	522.00	\$8,936.64
806	Furnish and install Lindheimer's Muhly (3 gal)	seventeen dollars 12 cents	EA.	\$17.12	136.00	\$2,328.32
807	Furnish and install Weeping Love Grass (see specs)	zero dollars 67 cents	S.Y	\$0.67	1323.00	\$886.41
808	Furnish and install solid sod (Buffalo 609)	four dollars 01 cents	S.Y	\$4.01	5616.00	\$22,520.16
809	Furnish and install solid sod (Bermuda)	two dollars 41 cents	S,Y	\$2.41	2790.00	\$6,723.90
	Furnish and place compost @ sod (Bermuda), wildflower					
810	& Weeping Love grass	thirty two dollars 10 cents	C.Y.	\$32.10	233.00	\$7,479.30
811	Furnish and install finely shredded hardwood bark mulch	thirty two dollars 10 cents	C.Y.	\$32.10	40.00	\$1,284.00

	Arapario Roau - Priase III					
Item Number		Unit Price in Words		Unit Price	Estimated Quantity	
812	Furnish and install bed preparation with compost	thirty four dollars 24 cents	C.Y.	\$34.24		
813	Furnish and install walkway pavers (see specs)	thirteen dollars 43 cents	S.F.	\$13.43		
814	Furnish and install 12" concrete bands	nine dollars 32 cents	L.F.	\$9.32		
815	Furnish and install 6" concrete bands	eight dollars 02 cents	L.F.	\$8.02	540.00	
816	Embankment	fifteen dollars 35 cents	C.Y.	\$15.35		
817	Furnish and install concrete strips (2'x10')	nine dollars 95 cents	S.F.	\$9.95	100.00	\$995.00
818	Furnish and place river cobbles with drain pipe, if shown	 four hundred one dollars 25 cents	C.Y.	\$401.25	15.00	\$6,018.75
819	Furnish and place landscape boulders	eight hundred two dollars 50 cents	EA.	\$802.50	26.00	
820	Furnish and install flagstone paving	nineteen dollars 86 cents	S.F.	\$19.86		
821	Furnish and place concrete benches (18" ht.)	six hundred nine dollars 04 cents	EA.	\$609.04		
822	Furnish and place concrete benches (22" ht.)	seven hundred eight dollars 72 cents	EA.	\$708.72		\$4,961.04
	Furnish and place concrete retaining wall (includes					
823	footing)	five hundred sixty dollars 49 cents	C.Y.	\$560.49	82.00	\$45,960.18
824	Furnish and install steel edging	two dollars 41 cents	L.F.	\$2.41		
	SUB-TOTAL AMOUNT BID ALTERNATIVE #1 FOR MAT	EDIAL & AND SERVICES		<u> </u>		
	SCHEDULE VIII, ITEMS 801 THROUGH 824, INCLUSIV					\$431,720.92
901	Furnish and place 5" reinforced concrete paving	three dollars 50 cents	S.F.	\$3.50	-2476.00	-\$8,666.00
902	Furnish and place Hydromulch (Bermuda)	zero dollars 05 cents	S.F.	\$0.05	-105082.00	-\$5,254.10
903	Furnish and install tree grate	one thousand five hundred dollars 00 cents	EA.	\$1,500.00	-1.00	-\$1,500.00
	SUB-TOTAL AMOUNT OF DEDUCTIONS FOR BID ALT	 ERNATE #1 FOR MATERIALS		}		
	AND SERVICES, SCHEDULE IX, ITEMS 901 THROUGH					-\$15,420.10
	TOTAL AMOUNT DID ALTERNATE #4 FOR MATERIAL	AND PEDVICES SCHEDULEVI				
	TOTAL AMOUNT BID ALTERNATE #1 FOR MATERIALS THROUGH SCHEDULE IX, ITEMS 701 THROUGH 903.					\$428,866.08
	,		 			<u>,</u>
1001	35' 3" Street Light Pole (Steel Type)	one thousand two hundred thirty six dollars 00 cents	EA.	\$1,236.00	9.00	\$11,124.00
1002	Pedestrian Light Pole (Steel Type)	three thousand two hundred ninety six dollars 00 cents	EA.	\$3,296.00		
	Combination, Street Light w/ Pedestrian Fixture (Steel					
1003	Type)	seven thousand four hundred sixteen dollars 00 cents	EA.	\$7,416.00	13.00	\$96,408.00
1004	Retaining Wall Mounted Light Pole (Steel Type)	five thousand seven hundred sixty eight dollars 00 cents		\$5,768.00		
	TOTAL AMOUNT BID FOR MATERIAL AND SERVICES	SCHEDULE X. ITEMS 1001	-			
	THROUGH 1004, INCLUSIVE		+			\$341,548.00
1101	35' 3" Street Light Pole (aluminum)	two thousand dollars 00 cents	EA.	\$2,000.00	-9.00	-\$18,000.00
1102	Pedestrian Light Pole (aluminum)	three thousand three hundred dollars 00 cents	EA.	\$3,300.00	-64.00	-\$211,200.00

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	Aranaha Paad Phasa III					
Item Number	Arapaho Road - Phase III	Unit Price in Words	UM	Unit Price	Estimated Quantity	Amount Bid
	Combination, Street Light w/ Pedestrian Fixture					
1103	(aluminum)	eight thousand five hundred dollars 00 cents	EA.	\$8,500.00	-13.00	-\$110,500.00
1104	Retaining Wall Mounted Light Pole (aluminum)	six thousand seven hundred fifty dollars 00 cents	EA.	\$6,750.00	-4.00	-\$27,000.00
	SUB-TOTAL AMOUNT OF DEDUCTIONS FOR BID A	LTERNATE #2 FOR MATERIALS			**************************************	
	AND SERVICES, SCHEDULE XI, ITEMS 1101 THRO	UGH 1104, INCLUSIVE				-\$366,700.0
	TOTAL AMOUNT BID ALTERNATE #2 FOR MATERI	ALS AND SERVICES, SCHEDULE X				
	THROUGH SCHEDULE XI, ITEMS 1001 THROUGH				······	-\$25,152.0

TRANSMITTAL OF ADDENDUM				
INSTRUCTIONS:				
Acknowledge receipt of Addenda with the form below, please FAX to (972) 450-7096 upon receipt and Acknowledgement of Addenda on outer envelope of bid.				

Addendum Acknowledgment Should be faxed to (972) 450-7096				
I Acknowledge the receipt of Addendum No.: 6 Total # Pages: 2				
Town of: ADDISON, TEXAS				
Project Name: 04-22 Arapaho Rd Phase III				
By Facsimile Transmission on this date: June 4, 2004				
The undersigned bidder hereby certifics that Addendum No. 6 has been incorporated into the proposal and if accepted becomes part of the contract.				
Company Name:				
Signed By (print name):				
Signature:				
Date:				
Diama Nas				

PLEASE SIGN & FAX THIS PAGE BACK TO TOWN OF ADDISON

(As verification that you received this update) 972-450-7096

Town of Addison Bid 04-22 Arapaho Rd Phase III ADDENDUM NO. 6

Bid Due: Monday, June 7, 2004 @ 2:00PM

- 1. Delete or enter \$0.00 for Roadway pay items 156-160.
- 2. All Railroad control will be done by others.

All updates and addendum notices will be posted on $\underline{www.ci.addison.tx.us}$ under Purchasing or $\underline{www.demandstar.com}$.

ACKNOWLEDGED BY BIDDING CONTRACTOR:

_______Date: ______

TRANSMITTAL OF ADDENDUM **INSTRUCTIONS:** Acknowledge receipt of Addenda with the form below, please FAX to (972) 450-7096 upon receipt and Acknowledgement of Addenda on outer envelope of bid. Addendum Acknowledgment Should be faxed to (972) 450-7096 I Acknowledge the receipt of Addendum No.: Total # Pages: Town of: ADDISON, TEXAS Project Name: 04-22 Arapaho Rd Phase III By Facsimile Transmission on this date: June 4, 2004 The undersigned bidder hereby certifies that Addendum No. 7 has been incorporated into the proposal and if accepted becomes part of the contract. Company Name: Signed By (print name): Signature: Date:

PLEASE SIGN & FAX THIS PAGE BACK TO TOWN OF ADDISON

(As verification that you received this update) 972-450-7096

Phone No:

Town of Addison Bid 04-22 Arapaho Rd Phase III ADDENDUM NO. 7

Bid Due: Monday, June 7, 2004 @ 2:00PM

1. Replace the following bid sheets (4 pages).
All updates and addendum notices will be posted on www.ci.addison.tx.us under Purchasing or www.demandstar.com .
ACKNOWLEDGED BY BIDDING CONTRACTOR:
Date:

5910 W. Plano Parkway Nutre 200 Plano, Texas 75093 (972) 661-5626 EAX (972) 661-561-6 avenebnils.com

June 1, 2004

Town of Addison 16801 Westgrove Drive P.O. Box 9010 Addison, Texas 75001-9010

Attn: Mr. Jim Pierce, P.E.

ARAPAHO ROAD PHASE III - Testing Laboratory Recommendation

Dear Jim:

Interviews were conducted on the following dates for the selection of a testing laboratory for the referenced project:

May 20, 2004 at 1:30 p.m. Mas-Tek Engineering & Associates, Inc.

May 20, 2004 at 3:00 p.m. Terra-Mar – U.S. Labs

May 21, 2004 at 9:00 a.m. Rone Engineers May 24, 2004 at 10:30 a.m. ECS, LTD.

The interviews were conducted in the HNTB Plano office by Jerry Holder, Jenny Nicewander, and Michael Ebeling. Michael participated in the interviews via telephone. An agenda was developed prior to the interviews and used in all interviews for consistency. The following are a sample of questions asked to each firm:

- Please describe similar projects you have worked on and provide references
- Who will be your field personnel and what is their experience
- Who will be our point of contact and what is their experience
- Is your lab AASHTO certified
- What is your typical turn around time for written results
- Is all testing done in-house
- How many employees do you have locally, and how many are technicians
- Do you have a P.E. that will review all test results

All of the firms brought impressive experience and the desire to work on the project. We feel that all of the firms have the basic qualifications to perform the work requested. In order to get an unbiased opinion of the firms, each of us scored them independently and then shared our thoughts. Interestingly, all three of us ranked the firms in the same order.

- 1. Rone Engineers
- 2. Terra-Mar U.S. Labs
- 3. Mas-Tek Engineering & Associates, Inc.
- 4. ECS, LTD.

Mr. Jim Pierce June 1, 2004 Page 2

The scores were very close between first and second, with third and fourth having more separation. The key factors that put Rone in first place were:

- Testing laboratory was both AASHTO and ALLA certified
- They have over 40 field technicians in the Dallas area
- They have experience with large drilled shaft construction (DNT & SH 121 most recent)
- Their point of contact, Larry Bracken, was very eager to work on this project

This is not to say the other firms weren't eager or didn't have applicable experience, but Rone's experience came across as being better suited for this project than the others. Our recommendation to the Town of Addison is to select Rone Engineers for the testing services during construction of the Arapaho Road Phase III project. We will be happy to meet with you and go over our notes and answer any questions you have. We understand this is a Town of Addison project and not an HNTB project, so we want your input before any final selection is made. We look forward to discussing this selection with you and your staff.

Very truly yours,

HNTB CORPORATION

Jerry D. Holder, Jr., P.E.

Director of Municipal Services

JDH

Enclosure

25768 DS 301

May 26, 2004 3:00pm, Pre Bid Meeting Sign in Sheet

			04-22 Arapaho Rd Phase	III,81	7-401-1267
			BEN		
	Add 3	Company			Fax
*		MARTIN K. EBY CONST. Co.	KURT GRIER	214-880-0028	214-880-9916
*	V	MARTIN K. EBY DONST, CO.	CRAIG CHRISTIAN	817-268-0514	817-268-1309
		Ry "	RICHARD MCGRD	1- /- 11	4 11 15
		Aucher Western	Andrew Schneemunn	817-640-3898	817-640-8734
		L.H. Lacy Co.	Darlene Coney	214-357-0146	214-350-1262
		MARIO SINATOLA · Sous	LARRYM LAMP	2)387-3900	2)387.3940
		Orial Hall Excavating Co.	Lori Nelson	817-624-7207	80-625-2941
	•	TEXES Steeling Const	Carl D (vol)	972-606-2733	972-606-2713
		A. H. Beck Foundation Co.	Robin L. Reeves	912.993.0316	98972-8462107
		MELS ELECTRIC L.P	KEITH ROBERTSON	214-565-1074	214-565-1081
		ECS, Ltd	Bobby RAY	972-392-3222	972-392-0102
			Chris Eddy	*)	1,
		GREAT WESTERNERECTOR	S PETE SELF	214,637,2500	214.637.2504
		BENDTEC	MICHAEL WHITNEY	172-247-92SD	972-247-9252
		BENDTEC	BOB MEERHOFF	1	1)
头		AUSTIN BRIDGE & ROAD	CHAPLEY SPENCE	214 596 7300	214596 7395
		ALISTIN BRIDGE & ROAD	TONY STEHLING	ec er er	24-596-7371
	<u> </u>	eo !	Jerony Show	ge to tr	1' '' 7395
		CHURS URS	CI: H Hall	972.406.6950	972.406.6951

* will not bid with 4th Edition Indemnification provisions.

May 26, 2004 3:00pm, Pre Bid Meeting Sign in Sheet 04-22 Arapaho Rd Phase III,

		04-22 Arapano Rd Phase	: III,	
Add 3	Company	Name	Phone	Fax
	HNTB	Jerry Holder		
	GYEA	Bruce Grantham.	(9)864-2333	(9)864-2334
	MICA	Jay Hencken	817-577-0455	817-428-0577
	Journ of Addison	Ronher	(972)450-2863	(972) 450-2834
		DineWilde	972 450-2847	972-450 2837
	Town of Addisin	Jim Pierce	972-450-2879	<u> </u>
				_

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Steve Chutchian

From:

Mike Murphy

Sent:

Tuesday, May 18, 2004 2:23 PM Bryan Langley; Randy Moravec

To; Cc:

Chris Terry; Steve Chutchian; Jim Pierce

Subject:

Arapaho Phase III

Randy, Bryan,

As you know we are in the home stretch of starting construction on Arapaho Road Phase III. It is our goal to award the Road and Bridge construction contract during our June 22nd Council Meeting. Therefore, please make whatever arrangements necessary to begin process to acquire remaining Arapaho Road Bond Funds.

Please let me know what me or my staff can do to assist. Although I don't know how much will be requested on a monthly basis, I would guess that payments would be made in range of half million dollar to million dollar increments over an eighteen month period.

Thanks,

Call with any questions.

Mike

Michael E. Murphy, PE
Director of Public Works
(972) 450-2878 Work
(214) 215-5280 Mobile
(972) 450-2837 Fax
E-Mail: mmurphy@ci.addison.tx.us

Sign in Sheet TxDOT Arapaho Phase 3 Pre-Bid Meeting

17-May-04

Name	Company	Phote # JEW
1 Bujan Riper	Site Concréte, Inc.	972-313-0733 Fax 972-513-0661
2 Steve Godoran	North Texas Picific	17-501-1356
JIM SMITH	COPPELL CONSTRUCTION CO., INC	P 940-995-3101 F 940-995-2416
4 Chris Charoll	Doracour Corp.	P 817. 205. 2197 F 817-788-5221
5 Cliff Carroll	11 11	811-528-9881
6 JAY Simms	ED BELL CONST.	214 358 6581
7 Jared Fecht	American Civil Constructors	972-827-0150 827-0151 fax
8 MARK LOHSE	ARCHER WESTERN CONTRACTORS	PH 817-640-3899 FAX 817-640-8734
9 BEN WITHERED Cell: 817 401 7202	ARCHOR WESTERN	8174017202
10 Ranch Lackner/Bob Meierhol	F Bendtec	218 722-0205
11 Soul Ausson	EB (940-627-0684/0687fm
12 RICK BURGET	REBCON, Inc.	972 444 8230 472 444 8234
13 KEITH ROBERTSON	MELS ELECTRIC	214-565-1074
14 TROY CHILDERS	MSEO PAVING	972-289-0723

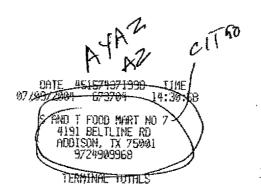
Name	Company	Phone # / FAX
15 LON Nelson	Orwal Hall Excavating Co	817-624-7207 P
16 (00) T (100)	TExas Sterling Onel De	972-606-2733 Tuly 972-606-2713 Fox
17 CRAIG CHEISTIAN	MARTIN K. EBY CONST. Co.	817-268-0514 (Pel.) 817-268-1309 (FAX)
18 Norma Heersing	10 11 11	"
19 RICHARD MC CORD	a n e	1)
20 Jim Pierce	Tom of Addison	912-450-2879
21 Dave Wilde	Town of Addison	972-450-2847
22 CLIFF HALL	URS	972.406.6950 972.406.6951(PAT)
23 Bruce Grantham	GRA	972-864-233\$ ph.
24 Katura Curry	u `	и
25 MIKE Murphy (DIRECTOR)	Town of Doneson	972-450-2818
26 LUKE JALBERT CP.M)	() 11 11	972-450-286
27		
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arapaho Pel Phase III 5-17-04 fre Bid Meeting Ron White feed - Don't damige water main Must Lover 60" water line New projectal form to come out Bridge Splie , special weld rod? Treffic control? Traffie Barriers, Lightning protestion? Cast Box in place? - common wall with differing fin lines. Castin place detail? 10% or 100% maintener bord. Kiosk questions Channel removed lump sum, Embankment inside MSE walls? Check spees on fill: mate used MSE walls -Delay bids by ne week - ? Existing Utilities - Onco. ... SBL ... Describe A+B bidding \$ 4,000 day Work hour restrictions wit motels

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TIM BEST

NEMA-FARZIN

ASSISTANT HOCKEY DIRECTOR nemededdisonsupergarden.com EXTENTION: 288

15100 MIDWAY ROAD

ADDISON, TEXAS 75001

972-960-7465

FAX: 972-991-7465





AntiqueLand USA, Inc.

E-Mail: sharik@antiquelandusa.com

Shari King General Manager

Forestwood Antique Mall

5333 Forest Lane Dallas, TX 75244

Phone: 972-661-0001 Fax: 972-661-0477

Unlimited, Ltd. Antique Mall

15201 Midway Road Addison, TX 75001 Phone: 972-490-4085 Fax: 972-490-0579

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JAMER SAMONTE

4555 BELT LINE ROAD ADDISON, TX 75001

CHOICE HOTELS

GENERAL MANAGER

PHONE/FAX 972.503.6500

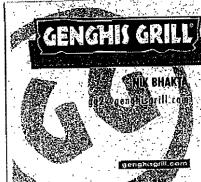


Moorman

RETAIL STORE MANAGER

MAPSCO, INC. 4181 CENTURION WAY • ADDISON, TX 75001 (972) 450-9380 • FAX (972) 450-9305 dmoorman@mapsco.com

mapsco.com



MANAGER

CHALAK INVESTMENT GROUP, LP.INC. "INDEPENDENTLY OWNED AND OPERATED" 4201 BELTLINE RO. SUITE-1 ADDISON, TEXAS 75001

772 503 KHAN PK 972 503 5990 FAX



John Terri



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Maggiore Realty 3004 Canyon Creek Dr. . Suite 100 Richardson, Texas 75080

> Real Estate Investment Property Management

PETER C. MAGGIORE, CPM President 972/669-9400 Fax 972/699-8364



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4325 8eltline Rd.



469-916-2929 x222

4139 Centurion Way Addison, Tx 75001

Fax: (469) 916-2930 Cel: (214) 793-8989

gene.harris@absolutesystems.com

Gene Harris

CEO

arapato Phase III affected Property Dunerth Dunerth Public Storage of Dallas, Ltd. Parcelo-Hate A. Starke Taylor, III, President 12\$13 Witson & Taylor Management, Jone. 3939 Belt Line Road addison, Tx 75001 Bullough / Lykos Office Blog No I, L.P. Mr. Date C. Bullough 4101 Centurian Way addum, TX 75001 Parcel 10 John A. Winslow

4125 Centurian Way, L.P. 4125 Centurian Way addison TX 75001

Intervet Companies addition Mr. John Wilson 4131 Centurian Way addison, TX 75001-4379

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	Mr. Gary B. Crouch
	ADR Partners
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Parcel 6

Motel 6 Operating L.P.
Mr. Rardy Lee, V.P.
Accor Economy Lodging
14651 Dallas Parkway, Suite 500
Dalles, Tx 75254

mgr:

Kelly Kellett-Drzymala, General Manager Motel 6 # 1125 4325 Belt Line Rd Addison, TX 75001 owner: 1201 Page Drive Local:
Fargo, ND 58103
attm: Mr. Rick Larsen
(also Tharaldson Development)

City of Dellas (DWU) Mr. Eric Steitle, Relocation Section, Interum mgr., Pallas Water Utilities 2121 Main Street, Suite 400 Dallas, TX 75201

15211 Addison Road Joint Venture Parel

M. Kim Forsythe 3333 Earhart Suite 250 Carrollton, TX 75006 DART

Ms. Jan Seidner, Mgr., Raubroad Facilities Dallas, TX 75266-7210

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CWOTS # 4185T03 4801 Matlock Road, Room B16 Arlington, Texas 76018

December 31, 2003

TOWN OF ADDISON-P O Box 9010 Addison, TX 75001

Dear Mr. Jalbert,

This letter is in regards to your request for Southwestern Bell Telephone, L.P. to perform custom work for you. Enclosed please find an Application and Letter of Agency for Custom Work. This application describes the custom work you have requested along with the associated charges for us to do the work. We require an advance payment on this amount, which is shown on the application.

Both the signed application and the advance payment must be received by our office before we can proceed on your behalf. Our mailing address for these documents is listed below:

Southwestern Bell Telephone, L.P. Attn: Shirley Meadows 4801 Matlock Road, Room B16 Arlington, Texas 76018

If you decide not to proceed with this work, please call our business office so that we may cancel your request. As always, please feel free to contact our business office at 1 800 303-7477 if you have any questions regarding this matter. Please refer to the record number at the top of your application to assist us in locating your file.

Sincerely,

Shirley Meadows

Shirley Meadows CWOTS Department Southwestern Bell Telephone, L.P. 817 467-8124 or 1-888-321-8535 Phone 817 467-8198 or 1-800-851-7311 Fax



APPLICATION and LETTER OF AGENCY FOR CUSTOM WORK

December 31, 2003

CWOTS Number: 4185T03

Customer Billing Telephone Number: 972 450-7000

BILL TO:

TOWN OF ADDISON

P O Box 9010 Addison, TX 75001

DESCRIPTION OF CUSTOM WORK:

This cost estimate is for the extension of Arapaho Road from Surveyor Road to Addison Road. This job will reroute conduit run under new box culvert. Contract engineer will design job.

CHARGE FOR CUSTOM WORK:

ESTIMATED COST:

\$ 44,359.10+ tax

(Actual charges may exceed this estimated cost.)

IF USING A PURCHASE ORDER ESTIMATED COST WILL BE \$45,124.75

ESTIMATED LABOR: \$ 34,064.31; ESTIMATED MATERIALS: \$ 6,128.88;

ESTIMATED OVERHEAD EXPENSE: \$4,165.91

Applicant requests that Southwestern Bell Telephone, L.P. act as its agent in performing the above-described custom work on Applicant's behalf. Applicant agrees to pay the charge(s) indicated above for such work. The work is to be done on an "Actual Cost" basis, all charge(s) will be computed in accordance with Southwestern Bell Corporation's ordinary accounting practices under the Uniform System of Accounts for Class A telephone companies and will include allocated costs for labor, engineering, materials, transportation, motor vehicles, tool and supply expenses and sundry billings from sub-contractors and suppliers for work and materials related to the job. The Applicant affirms that the cost estimate furnished by the Telephone Company has been considered only as an estimate of approximate costs and that the actual costs incurred by the Telephone Company in doing the work at the particular time and location might be higher. Said estimated cost is subject to change due to any number of factors including, but not limited to, changing conditions in the field, weather delays, or changes in the scope of the work.

CHANGE ORDERS

Should concealed conditions exist, including conditions that may exist below the surface of the ground, or if conditions exist that could not have been anticipated by SBC at the time of this agreement, SBC will be entitled to additional funds and/or additional time to complete the work. SBC will request such additional funding and/or additional time through a request for a change order.

Should Applicant or its agents, servants, or employees order or seek changes in the scope of the work, SBC is entitled to seek from Applicant, its agents, servants, or employees, additional funds as necessary to perform the work, and additional time, as necessary to complete the work. Said request for additional funds and/or additional time will be through change order.

All change orders will be in writing.

All change orders will be submitted and accepted by Applicant, its agents, servants or employees, before SBC proceeds to execute the work or, if work has been initiated on the project, continues with executing the work except in an emergency endangering life or property.

Applicant, its agents, servants or employees, are deemed to have accepted the terms of any change order by signing where indicated on the change order.

8056 Actual Cost

Under no circumstances will SBC's request for a change order be deemed or used as evidence of delay on the project. Nor will any change order issued in this project be used to charge SBC with responsibility for any alleged delay on the project.

TIME TO COMPLETE

Any representation by SBC, its agents, servants or employees that the project, or any additional work authorized by change order, will be complete by a certain date or certain time period is strictly an estimate and not binding on SBC, its agents, servants, or employees. All estimated completion dates are subject to changing conditions in the field, changes in the scope of the work, relocation of existing utilities not within SBC's control, Acts of God, weather delays, labor disputes, vendor/contractor disputes, and other conditions or circumstances that SBC, its agents, servants, or employees, could not reasonably anticipate at the time of the estimate.

PAYMENT

Applicant agrees to make an advance payment of \$44,359.10 prior to commencement of the work and agrees to pay the applicable taxes when the work is completed. Applicable charges for Custom Work will be billed on a special bill separate from the bill that Applicant receives for telephone service.

Applicant, its agents, servants, or employees agree to make payment on change orders within thirty (30) days of the date of signature on the change order. Failure to make payment within the designated thirty (30) day time period will operate to cancel the change order and SBC will cease all work activity on the project until payment is made.

When the Applicant agrees to Interval Billing *, the balance of the Contract Price or Actual Cost (as applicable) will be made in monthly payments. If the Actual Cost made varies from the Estimated Cost, then a correcting adjustment will be made in the last payment.

CANCELLATION

If the applicant cancels the work prior to completion, Applicant agrees to pay Southwestern Bell Telephone, L.P. for the costs it has incurred in starting performance under the contract and before being notified to cease only.

ESTIMATED PRICE QUOTE

The above estimated price is guaranteed for 60 days from December 31, 2003. If the charges are not accepted within 60 days the order will be cancelled and a new order will need to be placed. The second estimate may be higher than the estimated price set out above.

CHOICE OF LAW AND ARBITRATION

Should any dispute arise between the parties concerning the subject matter of this agreement, or any term contained therein, the parties agree that the dispute or claim shall be submitted to binding arbitration before the American Arbitration Association. The parties further agree that the prevailing party in any such dispute will be entitled to recover attorney's fees and costs of arbitration.

Texas law governs the application of this agreement and all terms contained therein.

INDEMNIFICATION AND HOLD HARMLESS

Applicant, its agents, servants, and employees hereby agree to indemnify and hold harmless SBC, and its employees, agents and contractors, from and against any and all claims, costs, expenses, judgments or actions for damage to property or injury or death to persons, and/or arising from or relating to the work that is the subject of this agreement, to the extent any such claims are caused by the negligent acts or omissions of the Applicant, its agents, servants, or employees.

ENTIRE AGREEMENT

The parties agree that the terms set forth herein constitute the entire agreement and there are no other agreements regarding the project that is the subject of this agreement between the parties.

MODIFICATION & NOTICE

Any modification to this agreement must be made in writing and signed by both parties.

Any party to this agreement may provide the other party with notice of any fact or condition by providing such information in writing and serving said writing via certified mail, return receipt requested.

8056 Actual Cost

ACCEPTED FOR CUSTOMER:	ACCEPTED	FOR SOUTHWESTERN E	SELL TELEPHONE, L.P.:
Authorized Signature, Title or Relationship to Company or Individua Company:	Title:	Mgr Oprs-Cntl/CWOTS	- · ·
Date:	Date:		

^{*} Applicable to orders over \$25,000 and work will take 6 or more months to complete.



LETTER OF TRANSMITTAL

Job No.

25768-DS-301

Date

October 23, 2003

To: Mr. Lim Pierce

Pown of Addison

16801 Westgrove Drive

P.O. Box 9010

Addison, TX 75001-9010

Re: Arapaho Road Phase 3
Revised Proposal for Additional Services

SLADE IS MS

WE ARE FORWARDING TO YOU:

COPIES	SHEET NO.	LAST DATED	DESCRIPTION
1	Attachment A	09/08/2003	Tree Survey - East of Midway Road
1	Attachment B	09/08/2003	Y'Track Additional Topographic Survey
1	Attachment C	09/08/2003	Additional Drainage Services
, ., -		4	

ANAMA APPRIANCIPANT IN INCIDENT		CONTRACT THE SECRET SEC	MARKE B 1/ IS N MINISTER E E E 1/200° E VEZZONOSZEZEZEZEZEZEZEZEZEZEZEZEZEZEZEZEZEZEZE
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COPY TO:

Slade Strickland - Town of Addison

25768-DS-301

By: Juny D. Holder St., P.E.

Attachment A Compensation

Arapaho Road Extension Phase 3 - PS&E Tree Survey - East of Midway Road Estimate of Manhours Grantham & Associates, Inc.

Manhour Projection							Survey Crev Expense	
Task	Assistant Project Manager	Project Engineer	Design Tech	CADD Operator	Clerical	Survey Manager	Survey Technician	Survey Crev
Tree Survey (approx. 500 lf)	0.5	2	Q	0	0	4	8	20
Total Hours	0.5	2	0	0	0	4	8	20
Hourly Rate	\$45.00	\$41.00	\$24.00	\$16.00	\$16.00	\$40.00	\$25.00	\$110.00
Direct Labor Cost	\$22.50	\$82.00	\$0.00	\$0.00	\$0.00	\$160,00	\$200.00	\$2,200.00

G&A Direct Labor \$ 464.50

Indirect Labor, Overhead (1.8775) \$ 872.10

Subtotal \$ 1,336.60

Profit & Contingency \$ 200.49

Survey Crew Expense \$ 2,200.00

Direct Expense \$ 500.00

G&A Fee \$ 4,237.09

Attachment B Compensation

Arapaho Road Extension Phase 3 - PS&E Y' Track Additional Topographic Survey Estimate of Manhours Grantham & Associates, Inc.

Manhour Projection						Survey Crew Expense		
Task	Assistant Project Manager	Project Engineer	Design Tech	CADD Operator	Clerical	Survey Manager	Survey Technician	Survey Crew
Topographic Survey	0.5	2	0	0	0	4	8	16
Total Hours	0.5	2	0	0	0	4	8	16
Hourly Rate	\$45.00	\$41.00	\$24.00	\$16.00	\$16.00	\$40.00	\$25.00	\$110.00
Direct Labor Cost	\$22.50	\$82.00	\$0.00	\$0.00	\$0.00	\$160.00	\$200.00	\$1,760.00

G&A Direct Labor \$ 464.50

Indirect Labor, Overhead (1.8775) \$ 872.10

Subtotal \$1,336.60

Profit & Contingency \$ 200,49

Survey Crew Expense \$1,760.00

Direct Expense \$ 500.00

G&A Fee \$3,797.09

Attachment C Compensation

Arapaho Road Extension Phase 3 - PS&E Additional Drainage Services Estimate of Manhours Grantham & Associates, Inc.

	Manhour Projection						
Task	Assistant Project Manager	Project Engineer	Design Tech	CADD Operator	Clerical		
Addison Road Drainage							
Plans and Specifications	4	8	4	8	4		
Total Hours	4	8	4	8	4		
Hourly Rate	\$ 45.00	\$ 41.00	\$ 24.00	\$ 16.00	\$ 16.00		
Direct Labor Cost	\$ 180.00	\$ 328.00	\$ 96.00	\$ 128.00	\$ 64.00		

G&A Direct Labor \$ 796.00 Indirect Labor, Overhead (1.8775) \$ 1,494.49 Subtotal \$ 2,290.49 Profit & Contingency \$ 343:57

Direct Expense \$ 250.00

G&A Fee \$ 2,884.06

Y' Track Drainage					
Drainage Plan / Profile	4	8	8	16	
Drainage Calculations	4	8	4	8	
Utility Coordination	2	4	2	6	4
Total Hours	10	20	14	30	4
Hourly Rate	\$ 45.00	\$ 41.00	\$ 24.00	\$ 16.00	\$ 16.00
Direct Labor Cost	\$ 450.00	\$ 820.00	\$ 336.00	\$ 480.00	\$ 64.00

G&A Direct Labor \$ 2,150.00

Indirect Labor, Overhead (1.8775) \$ 4,036.63

Subtotal \$ 6,186.63

Profit & Contingency \$ 927.99

Direct Expense \$ 250.00

G&A Fee 5 7,364:62

HP Laserjet 3200se

TOWN OF ADDISON 9724502837 FEB-7-2003 1 16:25



Fax Call Report

Job Date

Identification

Duration

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2/ 7/2003 171

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Addison	PUBLIC WORKS
To: Jerry Holder, P.E. Company: HUTB FAX #: 972-661-5614 Date: 2-7-03 # of pages (including cover): 2 Re: Anapahr Rel Phece	From: Jim Pierce, P.E. Asst. Public Wks. Dir. Phone: 972/450-2879 FAX: 972/450-2837 pierce@claddison.tx.us 16801 Westgrove P.O.Box 9010 Addison, TX 75001-9010
Original in mail Per your request	
Comments att defter of water Main	2-6-03 re

February 6, 2003

Mr. Mike Murphy, P.E. Public Works Director, Town of Addison 16801 Westgrove Drive P.O. Box 9010 Addison, TX 75001-9010

Dear Mr. Murphy:

adjacent to Dalles Water Utulities,
60 water main

This correspondence is in response to your request during a meeting in your conference room on February 5, 2003. The purpose of this letter is to discuss the steps HNTB plans to implement during our design of the retaining walls along the north side Arapaho Road on the east and west sides of Midway Road. For reference, the walls are located at the following approximate station locations along the Arapaho Road, Phase Extension centerline: (cliffs letter should in the " blan

West Side of Midway Road: Station 46+00 to Station 51+00 East Side of Midway Road: Station 67+00 to Station 71+00

The preliminary plans for the phase 3 extension of Arapaho Road anticipated the use of Mechanically Stabilized Retaining (MSE) retaining walf on the approaches to the Midway Road Overpass. MSE walls are typically founded on a small footing with stability provided by anchors embedded in the retained embankment. Due to the proximity of \$\frac{1}{4}\$ 60" water line located approximately 8 feet from the wall, the Dallas Water Utilities Department (DWU) has expressed concern that a water line rupture would cause erosion that might undermine the wall footing and result in wall failure.

To minimize these concerns, a revised wall design is proposed that should protect the wall and roadway from damaging erosión. The revised design would be founded on drilled shafts supporting a curtain wall that would extend to a depth below the flow line of the water line. A 9' by 6' box drainage culvert that be cast integrally with the curtain wall and together form the footing of a cast-in place retaining wall. A rupture of the water line causing a localized erosion of soil would expose the face of the curtain wall but should not result in a failure of the wall or roadway. would

The revised wall will be designed with the standard of care that should protect the roadway from damage based on our judgment of the erosion that could result from a water line rupture. -cannot and will not quarentee that in the entreme ease of water line rupture, some damage to the Wall-and roadway world occur-STATE OF THE PARTY.

We trust the revised design described will provide the DWU with reasonable assurance that precautions and measures will be taken to avoid a major incident in the event of a water line rupture. are being

Sincerely, **HNTB** Corporation

Jerry D. Holder, Jr., P.E.



Advisory Circular

Subject: OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION

Date: 1/17/03

AC No: 150/5370-2E

Initiated by: AAS-300

Change:

1. THE PURPOSE OF THIS ADVISORY CIRCULAR (AC).

Aviation safety is the primary eonsideration at airports, especially during construction. This AC sets forth guidelines for operational safety on airports during construction. It contains major changes to the following areas: "Runway Safety Area," paragraph 3-2; "Taxiway Safety Areas/Object-Free Areas," paragraph 3-3; "Overview," paragraph 3-4; "Marking Guidelines for Temporary Threshold," paragraph 3-5; and "Hazard Marking and Lighting," paragraph 3-9.

2. WHAT THIS AC CANCELS.

This AC cancels AC 150/5370-2D, Operational Safety on Airports During Construction, dated May 31, 2002.

3. READING MATERIAL RELATED TO THIS AC.

Appendix 1 contains a list of reading materials on airport construction, design, and potential safety hazards during construction, as well as instructions for ordering these documents. Many of them, including this AC, are available on the Federal Aviation Administration (FAA) Web site.

4. WHO THIS AC AFFECTS.

This AC assists airport operators in complying with 14 Code of Federal Regulations (CFR), part 139, Certification and Operation: Land Airports Serving Certain Air Carriers, and with the requirements of airport construction projects receiving funds under the Airport Improvement Program or from the Passenger Facility Charge Program. While the FAA does not require noncertificated airports without grant agreements to adhere to these guidelines, we recommend that they do so as it will help these airports maintain a desirable level of operational safety during construction.

5. ADDITIONAL BACKGROUND INFORMATION.

Appendix 2 contains definitions of terms used in this AC. Appendix 3 provides airport operators with boilerplate format and language for developing a safety plan for an airport construction project. Appendix 4 is a sample Notice to Airmen form.

6. HAZARD LIGHTING IMPLEMENTATION TIME LINE.

Supplemental hazard lighting must be red in color by October 1, 2004. See paragraph 3-9 for more information.

DAVID L. BENNETT

Director, Office of Airport Safety and Standards

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CHAPTER 1. GENERAL SAFETY REQUIREMENTS AND RESPONSIBILITIES

1-1. OVERVIEW.

Hazardous practices and marginal conditions created by construction activities can decrease or jeopardize operational safety on airports. To minimize disruption of normal aircraft operations and to avoid situations that compromise the airport's operational safety, the airport operator must carefully plan, schedule, and coordinate construction activities. While the guidance in this AC is primarily used for construction operations, some of the methods and procedures described may also enhance day-to-day maintenance operations.

1-2. WHO IS RESPONSIBLE FOR SAFETY DURING CONSTRUCTION.

An airport operator has overall responsibility for construction activities on an airport. This includes the predesign, design, preconstruction, construction, and inspection phases. Additional information on these responsibilities can be found throughout this AC.

a. Airport operator's responsibilities-

- (1) Develop internally or approve a construction safety plan developed by an outside consultant/contractor that complies with the safety guidelines in Chapter 2, "Safety Plans," and Appendix 3, "Airport Construction Safety Planning Guide," of this AC.
- (2) Require contractors to submit plans indicating how they intend to comply with the safety requirements of the project.
- (3) Convene a meeting with the construction contractor, consultant, airport employees, and, if appropriate, tenant sponsor to review and discuss project safety before beginning construction activity.
- (4) Ensure contact information is accurate for each representative/point of contact identified in the safety plan.
- (5) Hold weekly or, if necessary, daily safety meetings to coordinate activities.
- (6) Notify users, especially aircraft rescue and fire fighting (ARFF) personnel, of construction activity and conditions that may adversely affect the operational safety of the airport via Notices to Airmen (NOTAMs) or other methods, as appropriate. Convene a meeting for review and discussion if necessary.
- (7) Ensure that construction personnel know of any applicable airport procedures and of changes to those procedures that may affect their work,

- (8) Ensure that construction contractors and subcontractors undergo training required by the safety plan.
- (9) Develop and/or coordinate a construction vehicle plan with airport tenants, the airport traffic control tower (ATCT), and construction contractors. Include the vehicle plan in the safety plan. See Chapter 2, section 2, of this AC for additional information.
- (10) Ensure tenants and contractors comply with standards and procedures for vehicle lighting, marking, access, operation, and communication.
- (11) At certificated airports, ensure that each tenant's construction safety plan is consistent with 14 CFR part 139, Certification and Operations: Land Airports Serving Certain Air Carriers.
- (12) Conduct frequent inspections to ensure construction contractors and tenants comply with the safety plan and that altered construction activities do not create potential safety hazards.
 - (13) Resolve safety deficiencies immediately.
- (14) Ensure construction access complies with the security requirements of 49 CFR part 1542, Airport Security.
- (15) Notify appropriate parties when conditions exist that invoke provisions of the safety plan (e.g., implementation of low-visibility operations).

b. Construction contractor's responsibilities—

- (1) Submit plans to the airport operator on how to comply with the safety requirements of the project.
- (2) Have available a copy of the project safety plan.
- (3) Comply with the safety plan associated with the construction project and ensure that construction personnel are familiar with safety procedures and regulations on the airport.
- (4) Provide a point of contact who will coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety of the airport.
- (5) Provide a safety officer/construction inspector familiar with airport safety to monitor construction activities.
- (6) Restrict movement of construction vehicles to construction areas by flagging and barricading, creeting temporary fencing, or providing escorts, as appropriate.

- (7) Ensure that no construction employees, employees of subcontractors or suppliers, or other persons enter any part of the air operations areas (AOAs) from the construction site unless authorized.
- c. Tenant's responsibilities if planning construction activities on leased property-
- (1) Develop a safety plan, and submit it to the airport operator for approval prior to issuance of a Notice to Proceed.
- (2) Provide a point of contact who will coordinate an immediate response to correct any

- construction-related activity that may adversely affect the operational safety of the airport.
- (3) Ensure that no tenant or construction employees, employees of subcontractors or suppliers, or any other persons enter any part of the AOA from the construction site unless authorized.
- (4) Restrict movement of construction vehicles to construction areas by flagging and barricading or creeting temporary fencing.

CHAPTER 2. SAFETY PLANS

Section 1. Basic Safety Plan Considerations

2-1. OVERVIEW.

Airport operators should coordinate safety issues with the air carriers, FAA Airway Facilities, and other airport tenants before the design phase of the project. The airport operator should identify project safety concerns, requirements, and impacts before making arrangements with contractors and other personnel to perform work on an airport. These safety concerns will serve as the foundation for the construction safety plan and help maintain a high level of aviation safety during the project.

The airport operator should determine the level of complexity of the safety plan that is necessary for each construction project and its phases. The safety plan may be detailed in the specifications included in the invitation for bids, or the invitation for bid may specify that the contractor develop the safety plan and the airport operator approve it. In the latter case, the invitation for bid should contain sufficient information to allow the contractor to develop and determine the costs associated with the safety plan. In either case, safety plan costs should be incorporated into the total cost of the project. The airport operator has final approval authority and responsibility for all safety plans.

Coordination will vary from formal predesign conferences to informal contacts throughout the duration of the construction project.

Details of a specified safety plan, or requirements for a contractor-developed safety plan, should be discussed at the predesign and preconstruction conferences and should include the following, as appropriate:

- a. Actions necessary before starting construction, including defining and assigning responsibilities.
- b. Basic responsibilities and procedures for disseminating instructions about airport procedures to the contractor's personnel.
- c. Means of separating construction areas from aeronautical-use areas.
- d. Navigational aid (NAVAID) requirements and weather.
 - e. Marking and lighting plan illustrations.
- f. Methods of coordinating significant changes in airport operations with all the appropriate parties.

2-2. SAFETY PLAN CHECKLIST.

To the extent applicable, the safety plan should address the following:

- a. Scope of work to be performed, including proposed duration of work.
 - b. Runway and taxiway marking and lighting.
- c. Procedures for protecting all runway and taxiway safety areas, obstacle-free zones (OFZs), object-free areas (OFAs), and threshold citing criteria outlined in AC 150/5300-13, Airport Design, and as described in this AC. This includes limitations on equipment height and stockpiled material.
- d. Areas and operations affected by the construction activity, including possible safety problems.
- e. NAVAIDs that could be affected, especially critical area boundaries.
- f. Methods of separating vehicle and pedestrian construction traffic from the airport movement areas. This may include fencing off construction areas to keep equipment operators in restricted areas in which they are authorized to operate. Fencing, or some other form of restrictive barrier, is an operational necessity in some cases.
- g. Procedures and equipment, such as barricades (identify type), to delineate closed construction areas from the airport operational areas, as necessary.
 - h. Limitations on construction.
- i. Required compliance of contractor personnel with all airport safety and security measures.
- j. Location of stockpiled construction materials, construction site parking, and access and haul roads.
 - k. Radio communications.
 - I. Vehicle identification.
- m. Trenches and excavations and cover requirements.

- n. Procedures for notifying ARFF personnel if water lines or fire hydrants must be deactivated or if emergency access routes must be rerouted or blocked.
- Emergency notification procedures for medical and police response.
 - p. Use of temporary visual aids.
 - q. Wildlife management.
 - r. Foreign object debris (FOD) control provisions.
 - Hazardous materials (HAZMAT) management.
 - t. NOTAM issuance.
 - u. Inspection requirements.
- v. Procedures for locating and protecting existing underground utilities, cables, wires, pipelines, and other underground facilities in excavation areas.

- w. Procedures for contacting responsible representatives/points of contact for all involved parties. This should include off-duty contact information so an immediate response may be coordinated to correct any construction-related activity that could adversely affect the operational safety of the airport. Particular care should be taken to ensure that appropriate Airways Facilities personnel are identified in the event that an unanticipated utility outage or cable cut occurs that impacts FAA NAVAIDs.
 - x. Vehicle operator training.
- y. Penalty provisions for noncompliance with airport rules and regulations and the safety plan (e.g., if a vehicle is involved in a runway incursion).
- z. Any special conditions that affect the operation of the airport and will require a portion of the safety plan to be activated (e.g., low-visibility operations, snow removal).

Section 2. Safety and Security Measures

2-3. OVERVIEW.

Airport operators are responsible for closely monitoring tenant and construction contractor activity during the construction project to ensure continual compliance with all safety and security requirements. Airports subject to 49 CFR part 1542, Airport Security, must meet standards for access control, movement of ground vehicles, and identification of construction contractor and tenant personnel. In addition, airport operators should use safety program standards, as described in Chapter 3 of this AC, to develop specific safety measures to which tenants and construction contractors must adhere throughout the duration of construction activities.

General safety provisions are contained in AC 150/5370-10, Standards for Specifying Construction of Airports, paragraphs 40-05, "Maintenance of Traffic"; 70-08, "Barricades, Warning Signs, and Hazard Markings"; and 80-04, "Limitation of Operations." At any time during construction, aircraft operations, weather, security, or local airport rules may dictate more stringent safety measures. The airport operator should ensure that both general and specific safety requirements are eoordinated with airport tenants and ATCT personnel. The airport operator should also include these parties in the coordination of all bid documents, construction plans, and specifications for on-airport construction projects.

2-4. VEHICLE OPERATION AND MARKING AND PEDESTRIAN CONTROL.

Vehicle and pedestrian access routes for airport construction projects must be controlled to prevent inadvertent or unauthorized entry of persons, vehicles, or animals onto the AOA. This includes aircraft movement and nonmovement areas. The airport operator should develop and coordinate a construction vehicle plan with airport tenants, contractors, and the ATCT. The safety plan or invitation for bid should include specific vehicle and pedestrian requirements.

The vehicle plan should contain the following items:

- a. Airport operator's rules and regulations for vehicle marking, lighting, and operation.
- b. Requirements for marking and identifying vehicles in accordance with AC 150/5210-5, Painting, Marking, and Lighting of Vehicles Used on an Airport.
- e. Description of proper vehicle operations on movement and nonmovement areas under normal, lost communications, and emergency conditions.
- d. Penalties for noncompliance with driving rules and regulations.
- e. Training requirements for vehicle drivers to ensure compliance with the airport operator's vehicle rules and regulations.
- f. Provisions for radio communication training for eonstruction contractor personnel engaged in construction activities around aircraft movement areas. Some drivers,

such as construction drivers under escort, may not require this training.

- g. Escort procedures for construction vehicles requiring access to aircraft movement areas. A vehicle in the movement area must have a working aviation-band, two-way radio unless it is under escort. Vehicles can be in closed areas without a radio if the closed area is properly marked and lighted to prevent incursions and a NOTAM regarding the closure is issued.
- h. Monitoring procedures to ensure that vehicle drivers are in compliance with the construction vehicle plan.
- i. Procedures for, if appropriate, personnel to control access through gates and fencing or across aircraft movement areas.

2-5. CONSTRUCTION EMPLOYEE PARKING AREAS.

Designate in advance vehicle parking areas for contractor employees to prevent any unauthorized entry of persons or vehicles onto the airport movement area. These areas should provide reasonable contractor employee access to the job site.

2-6. CONSTRUCTION VEHICLE EQUIPMENT PARKING.

Construction employees must park and service all construction vehicles in an area designated by the airport operator outside the runway safety areas and OFZs and never on a closed taxiway or runway. Employees should also park construction vehicles outside the OFA when not in use by construction personnel (e.g., overnight, on weekends, or during other periods when construction is not active). Parking areas must not obstruct the clear line of sight by the ATCT to any taxiways or runways under air traffic control nor obstruct any runway visual aids, signs, or navigational aids. The FAA must also study those areas to determine effects on 14 CFR part 77, Objects Affecting Navigable Airspace, surfaces (see paragraph 2-13 for further information).

2-7. RADIO COMMUNICATION TRAINING.

The airport operator must ensure that tenant and construction contractor personnel engaged in activities involving unescorted operation on aircraft movement

areas observe the proper procedures for communications, including using appropriate radio frequencies at airports with and without ATCTs. Training of contractors on proper communication procedures is essential for maintaining airport operational safety. When operating vehicles on or near open runways or taxiways, construction personnel must understand the critical importance of maintaining radio contact with airport operations, ATCT, or the Common Traffic Advisory Frequency, which may include UNICOM, MULTICOM, or one of the FAA Flight Service Stations (FSS), as directed by airport management.

Vehicular traffic crossing active movement areas must be controlled either by two-way radio with the ATCT, escort, flagman, signal light, or other means appropriate for the particular airport. Vehicle drivers must confirm by personal observation that no aircraft is approaching their position when given clearance to cross a runway. In addition, it is the responsibility of the escort vehicle driver to verify the movement/position of all escorted vehicles at any given time.

Even though radio communication is maintained, escort vehicle drivers must also familiarize themselves with ATCT light gun signals in the event of radio failure (see the FAA safety placard "Ground Vehicle Guide to Airport Signs and Markings"). This safety placard may be ordered through the Runway Safety Program Web site at http://www.faarsp.org or obtained from the Regional Airports Division Office.

2-8. FENCING AND GATES.

Airport operators and contractors must take care to maintain a high level of safety and security during construction when access points are created in the security fencing to permit the passage of construction vehicles or personnel. Temporary gates should be equipped so they can be securely closed and locked to prevent access by animals and people (especially minors). Procedures should be in place to ensure that only authorized persons and vehicles have access to the AOA and to prohibit "piggybacking" behind another person or vehicle. The Department of Transportation (DOT) document DOT/FAA/AR-00/52, Recommended Security Guidelines for Airport Planning and Construction, provides more specific information on fencing. A copy of this document can be obtained from the Airport Consultants Council, Airports Council International, or American Association of Airport Executives.

Section 3. Notification of Construction Activities

2-9. GENERAL.

In order to maintain the desired levels of operational safety on airports during construction activities, the safety

plan should contain the notification actions described below.

2-10. ENSURING PROMPT NOTIFICATIONS.

The airport operator should establish and follow procedures for the immediate notification of airport users and the FAA of any conditions adversely affecting the operational safety of an airport.

2-11. NOTICES TO AIRMEN (NOTAMS).

The airport operator must provide information on closed or hazardous conditions on airport movement areas to the FSS so it can issue a NOTAM. The airport operator must coordinate the issuance, maintenance, and cancellation of NOTAMs about airport conditions resulting from construction activities with tenants and the local air traffic facility (control tower, approach control, or air traffic control center. Refer to AC 150/5200-28, Notices to Airmen (NOTAMs) for Airport Operators, and Appendix 4 in this AC for a sample NOTAM form. Only the FAA may issue or cancel NOTAMs on shutdown or irregular operation of FAA-owned facilities. Only the airport operator or an authorized representative may issue or cancel NOTAMs on airport conditions. (The airport owner/operator is the only entity that can close or open a runway.) The airport operator must file and maintain this list of authorized representatives with the FSS. Any person having reason to believe that a NOTAM is missing, incomplete, or inaccurate must notify the airport operator.

2-12. AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) NOTIFICATION.

The safety plan must provide procedures for notifying ARFF personnel, mutual aid providers, and other emergency services if construction requires shutting off or otherwise disrupting any water line or fire hydrant on the airport or adjoining areas and if contractors work with hazardous material on the airfield. Notification procedures must also be developed for notifying ARFF and all other emergency personnel when the work performed will close or affect any emergency routes. Likewise, the procedures must address appropriate notifications when services are restored.

2-13. NOTIFICATION TO THE FAA.

For certain airport projects, 14 CFR part 77 requires notification to the FAA. In addition to applications made for Federally funded construction, 14 CFR part 157, Notice of Construction, Alteration, Activation, and

Deactivation of Airports, requires that the airport operator notify the FAA in writing whenever a non-Federally funded project involves the construction of a new airport; the construction, realigning, altering, activating, or abandoning of a runway, landing strip, or associated taxiway; or the deactivation or abandoning of an entire airport. Notification involves submitting FAA Form 7480-1, Notice of Landing Area Proposal, to the nearest FAA Regional Airports Division Office or Airports District Office.

Also, any person proposing any kind of construction or alteration of objects that affect navigable airspace, as defined in 14 CFR part 77 must notify the FAA. This includes construction equipment and proposed parking areas for this equipment (i.e., cranes, graders, etc.). FAA Form 7460-1, Notice of Proposed Construction or Alteration, can be used for this purpose and submitted to the FAA Regional Airports Division Office or Airports District Office. (See AC 70/7460-2, Proposed Construction or Alteration of Objects that May Affect the Navigable Airspace.)

If construction operations require a shutdown of an airport owned NAVAID from service for more than 24 hours or in excess of 4 hours daily on consecutive days, we recommend a 45-day minimum notice prior to facility shutdown. Coordinate work for a FAA owned NAVAID shutdown with the local FAA Airways Facilities Office. In addition, procedures that address unanticipated utility outages and cable cuts that could impact FAA NAVAIDs must be addressed.

2-14. WORK SCHEDULING AND ACCOMPLISHMENT.

Airport operators—or tenants having construction on their leased properties—should use predesign, prebid, and preconstruction conferences to introduce the subject of airport operational safety during construction (see AC 150/5300-9, Predesign, Prebid, and Preconstruction Conferences for Airport Grant Projects). The airport operator, tenants, and construction contractors should integrate operational safety requirements into their planning and work schedules as early as practical. Operational safety should be a standing agenda item for discussion during progress meetings throughout the project. The contractor and airport operator should carry out onsite inspections throughout the project and immediately remedy any deficiencies, whether caused by negligence, oversight, or project scope change.

CHAPTER 3. SAFETY STANDARDS AND GUIDELINES

Section 1. Runway and Taxiway Safety Areas, Obstacle-Free Zones, and Object-Free Areas

3-1. OVERVIEW.

Airport operators must use these safety guidelines when preparing plans and specifications for construction activities in areas that may interfere with aircraft operations. The safety plan should recognize and address these standards for each airport construction project. However, the safety plan must reflect the specific needs of a particular project, and for this reason, these safety guidelines should not be incorporated verbatim into project specifications. For additional guidance on meeting safety and security requirements, refer to the planning guide template included in Appendix 3 of this AC.

3-2. RUNWAY SAFETY AREA (RSA)/ OBSTACLE-FREE ZONE (OFZ).

A runway safety area is the defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway (see AC 150/5300-13, Airport Design). Construction activities within the standard RSA are subject to the following conditions:

a. Runway edges.

- (1) No construction may occur closer than 200 feet (60m) from the runway centerline unless the runway is closed or restricted to aircraft operations, requiring an RSA that is equal to the RSA width available during construction, or 400 feet, whichever is less (see AC 150/5300-13, Tables 3-1 through 3-3).
- (2) Personnel, material, and/or equipment must not penetrate the OFZ, as defined in AC 150/5300-13.
- (3) The airport operator must coordinate the construction activity in the RSA as permitted above with the ATCT and the FAA Regional Airports Division Office or appropriate Airports District Office and issue a local NOTAM.

b. Runway ends.

(1) An RSA must be maintained of such dimensions that it extends beyond the end of the runway a distance equal to that which existed before construction activity, unless the runway is closed or restricted to aircraft operations for which the reduced RSA is adequate (see AC 150/5300-13). The temporary use of declared distances and/or partial runway closures may help provide the necessary RSA.

In addition, all personnel, materials, and/or equipment must remain clear of the applicable threshold siting surfaces, as defined in Appendix 2, "Threshold Siting Requirements," of AC 150/5300-13. Consult with the appropriate FAA Regional Airports Division Office or Airports District Office to determine the appropriate approach surface required.

- (2) Personnel, material, and/or equipment must not penetrate the OFZ, as defined in AC 150/5300-13.
- (3) The safety plan must provide procedures for ensuring adequate distance for blast protection, if required by operational considerations.
- (4) The airport operator must coordinate construction activity in this portion of the RSA with the ATCT and the FAA Regional Airports Division Office or appropriate Airports District Office and issue a local NOTAM.

c. Excavations.

- (1) Construction contractors must prominently mark open trenches and excavations at the construction site with red or orange flags, as approved by the airport operator, and light them with red lights during hours of restricted visibility or darkness.
- (2) Open trenches or excavations are not permitted within 200 feet (60m) of the runway centerline and at least the existing RSA distance from the runway threshold while the runway is open. If the runway must be opened before excavations are backfilled, cover the excavations appropriately. Coverings for open trenches or excavations must be of sufficient strength to support the weight of the heaviest aircraft operating on the runway.

3-3. TAXIWAY SAFETY AREAS/OBJECT-FREE AREAS.

a. Unrestricted construction activity is permissible adjacent to taxiways when the taxiway is restricted to aircraft such that the available taxiway safety area is equal

If a full safety area cannot be obtained through declared distances and partial closures, or other methods such as alternate runway use, construction activity may operate in the RSA as long as conditions cited in paragraph 3-1b(2) thru (4) are met. In addition, various surfaces outlined in AC 150/5300-13 and Terminal Instrument Procedures (TERPS) must be protected through an aeronautical study.

to at least ½ of the widest wingspan of the aircraft expected to use the taxiway and the available taxiway object-free area is equal to at least .7 times the widest wingspan plus 10 feet. (See AC 150/5300-13 for guidance on taxiway safety and object-free areas.)

Construction activity may be accomplished closer to a taxiway, subject to the following restrictions:

- (1) The activity is first coordinated with the airport operator.
 - (2) Appropriate NOTAMs are issued.
- (3) Marking and lighting meeting the provisions of paragraph 3-9 are implemented.
- (4) Adequate clearance is maintained between equipment and materials and any part of an aircraft. If such clearance can only be maintained if an aircraft does not have full use of the entire taxiway width (with its

main landing gear at the edge of the pavement), then it will be necessary to move personnel and equipment for each passing aircraft. In these situations, flag persons will be used to direct construction equipment, and wing walkers may be necessary to guide aircraft. Wing walkers should be airline/aviation personnel rather than construction workers.

1/17/03

- b. Construction contractors must prominently mark open trenches and excavations at the construction site, as approved by the airport operator, and light them with red lights during hours of restricted visibility or darkness
- e. Excavations and open trenches may be permitted up to the edge of a structural taxiway and apron pavement provided the dropoff is marked and lighted per paragraph 3-9, "Hazard Marking and Lighting."

Section 2. Temporary Runway Thresholds

3-4. OVERVIEW.

Construction activity in a runway approach area may result in the need to partially close a runway or displace the existing runway threshold. In either case, locate the threshold in accordance with Appendix 2 of AC 150/5300-13, Airport Design. Objects that do not penetrate these surfaces may still be obstructions to air navigation and may affect standard instrument approach procedures. Coordinate these objects with the FAA's Regional Airports Office or appropriate Airports District Office, as necessary. Refer to the current edition of AC 150/5300-13 for guidance on threshold siting requirements. The partial runway closure, the displacement of the runway threshold, as well as closures of the complete runway and other portions of the movement area also requires coordination with appropriate ATCT personnel and airport users.

Caution regarding partial runway closures: When filing a NOTAM for a partial runway closure, clearly state to FSS personnel that the portion of pavement located prior to the threshold is not available for landing and departing traffie. In this case, the threshold has been moved for both landing and takeoff purposes (this is different than a displaced threshold).

Example NOTAM: "North 1,000 feet of Runway 18/36 is closed; 7,000 feet remain available on Runway 18 and Runway 36 for arrivals and departures." There may be situations where the portion of closed runway is available for taxiing only. If so, the NOTAM must reflect this condition.

Caution regarding displaced thresholds: Implementation of a displaced threshold affects runway length available for aircraft landing over the displacement. Depending on the reason for the displacement (to provide obstruction clearance or RSA), such a displacement may also require an adjustment in the landing distance available and aecelerate-stop distance available in the opposite direction. If project scope includes personnel, equipment, excavation, etc. within the RSA of any usable runway end, we do not recommend a displaced threshold unless arrivals and departures toward the construction activity are prohibited. Instead, implement a partial elosure.

3-5. MARKING GUIDELINES FOR TEMPORARY THRESHOLD.

Ensure that markings for temporary displaced thresholds are clearly visible to pilots approaching the airport to land. When construction personnel and equipment are located close to any threshold, a temporary visual NAVAID, such as runway end identifier lights (REIL), may be required (even on unlighted runways) to define the new beginning of the runway clearly. A visual vertical guidance device, such as a visual approach slope indicator (VASI), pulse light approach slope indicator (PLASI), or precision approach path indicator (PAPI), may be necessary to assure landing clearance over personnel, vehicles, equipment, and/or above-grade stockpiled materials. If such devices are installed, ensure an appropriate descriptive NOTAM is issued to inform pilots of these conditions. The current edition of AC 150/5340-1, Standards for Airport Markings, describes standard marking colors and layouts. In addition, we recommend that a temporary runway threshold be marked using the following guidelines:

a. Airport markings must be clearly visible to pilots; not misleading, confusing, or deceptive; secured in place to prevent movement by prop wash, jet blast, wing vortices, or other wind currents; and constructed of

materials that would minimize damage to an aircraft in the event of inadvertent contact.

- (1) Pavement markings for temporary closed portions of the runway should consist of yellow chevrons to identify pavement areas that are unsuitable for takeoff/landing (see AC 150/5340-1). If unable to paint the markings on the pavement, construct them from any of the following materials: double-layered painted snow fence, colored plastic, painted sheets of plywood, or similar materials. They must be properly configured and secured to prevent movement by prop wash, jet blast, or other wind currents.
- (2) It may be necessary to remove or cover runway markings, such as runway designation markings and aiming point markings, depending on the length of construction and type of activity at the airport.
- (3) When threshold markings are needed to identify the temporary beginning of the runway that is available for landing, use a white threshold bar of the dimensions specified in AC 150/5340-1.
- (4) If temporary outboard elevated or flush threshold bars are used, locate them outside of the runway pavement surface, one on each side of the runway. They should be at least 10 feet (3m) in width and extend outboard from each side of the runway so they are clearly visible to landing and departing aircraft. These threshold bars are white. If the white threshold bars are not discernable on grass or snow, apply a black background with appropriate material over the ground to ensure the markings are clearly visible.
- (5) A temporary threshold may also be marked with the use of retroreflective, elevated markers. One side of such markers is green to denote the approach end of the runway; the side that is seen by pilots on rollout is red. See AC 150/5345-39, FAA Specification L-853, Runway and Taxiway Retroreflective Markers.
- (6) At 14 CFR part 139 certificated airports, temporary elevated threshold markers must be mounted with a frangible fitting (see 14 CFR part 139.309). However, at noncertificated airports, the temporary elevated threshold markings may either be mounted with a frangible fitting or be flexible. See AC 150/5345-39.
- b. The application rate of the paint to mark a short-term temporary runway threshold may deviate from the standard (see Item P-620, "Runway and Taxiway Painting," in AC 150/5370-10, Standards for Specifying Construction of Airports), but the dimensions must meet the existing standards, unless coordinated with the appropriate offices.
- c. When a runway is partially closed, the distance remaining signs for aircraft landing in the opposite direction should be covered or removed during the construction.

3-6. LIGHTING GUIDELINES FOR TEMPORARY THRESHOLD.

A temporary runway threshold must be lighted if the runway is lighted and it is the intended threshold for night landings or instrument meteorological conditions. We recommend that temporary threshold lights and related visual NAVAIDs be installed outboard of the edges of the full-strength pavement with bases at grade level or as low as possible, but not to exceed 3 inches (7.6cm) above ground. When any portion of a base is above grade, place properly compacted fill around the base to minimize the rate of gradient change so aircraft can, in an emergency, cross at normal landing or takeoff speeds without incurring significant damage (see AC 150/5370-10). We recommend that the following be observed when using temporary runway threshold lighting:

- a. Maintain threshold and edge lighting color and spacing standards as described in AC 150/5340-24, Runway and Taxiway Edge Lighting System.

 Battery-powered, solar, or portable lights that meet the criteria in AC 150/5345-50, Specification for Portable Runway Lights, may be used. These systems are intended primarily for visual flight rules (VFR) aircraft operation but may be used for instrument flight rules (IFR) aircraft operations, upon individual approval from the Flight Standards Division of the applicable FAA Regional Office.
- b. When the runway has been partially closed, disconnect edge and threshold lights with associated isolation transformers on that part of the runway at and behind the threshold (i.e., the portion of the runway that is closed). Alternately, cover the light fixture in such a way as to prevent light leakage. Avoid removing the lamp from energized fixtures because an excessive number of isolation transformers with open secondaries may damage the regulators and/or increase the current above its normal value.
- c. Secure, identify, and place any temporary exposed wiring in conduit to prevent electrocution and fire ignition sources.
- d. Reconfigure yellow lenses (caution zone), as necessary. If the runway has centerline lights, reconfigure the red lenses, as necessary, or place the centerline lights out of service.
- e. Relocate the visual glide slope indicator (VGSI), such as VASI and PAPI; other airport lights, such as REIL; and approach lights to identify the temporary threshold. Another option is to disable the VGSI or any equipment that would give misleading indications to pilots as to the new threshold location. Installation of temporary visual aids may be necessary to provide adequate guidance to pilots on approach to the affected runway. If the FAA owns and operates the VGSI,

coordinate its installation or disabling with the local Airway Facilities Systems Management Office. f. Issue a NOTAM to inform pilots of temporary lighting conditions.

Section 3. Other Construction Marking and Lighting Activities

3-7. OVERVIEW.

Ensure that construction areas, including closed runways, are clearly and visibly separated from movement areas and that hazards, facilities, cables, and power lines are identified prominently for construction contractors. Throughout the duration of the construction project, verify that these areas remain clearly marked and visible at all times and that marking and lighting aids remain in place and operational. Routine inspections must be made of temporary construction lighting, especially battery-powered lighting since weather conditions can limit battery life.

3-8. CLOSED RUNWAY AND TAXIWAY MARKING AND LIGHTING.

Closed runway markings consist of a yellow "X" in compliance with the standards of AC 150/5340-1, Standards for Airport Markings. A very effective and preferable visual aid to depict temporary closure is the lighted "X" signal placed on or near the runway designation numbers. This device is much more discernible to approaching aircraft than the other materials described. If the lighted "X" is not available, construct the marking of any of the following materials: double-layered painted snow fence, colored plastic, painted sheets of plywood, or similar materials. They must be properly configured and secured to prevent movement by prop wash, jet blast, or other wind currents. In addition, the airport operator may install barricades, traffic cones, activate stop bars, or other acceptable visual devices at major entrances to the runways to prevent aircraft from entering a closed portion of runway. The placement of even a single reflective barricade with a "do not enter" sign on a taxiway centerline can prevent an aircraft from continuing onto a closed runway. If the taxiway must remain open for aircraft crossings, barricades or markings, as described above or in paragraph 3-9, should be placed on the runway.

a. Permanently closed runways.

For runways and taxiways that have been permanently closed, disconnect the lighting circuits. For runways, obliterate the threshold marking, runway designation marking, and touchdown zone markings, and place "X's" at each end and at 1,000-foot (300-m) intervals. For taxiways, place an "X" at the entrance of the closed taxiway,

b. Temporarily closed runway and taxiways.

For runways that have been temporarily closed, place an "X" at the each end of the runway. With taxiways, place an "X" at the entrance of the closed taxiway.

c. Temporarily closed airport.

When the airport is closed temporarily, mark the runways as closed and turn off the airport beacon.

d. Permanently closed airports

When the airport is closed permanently, mark the runways as permanently closed, disconnect the airport beacon, and place an "X" in the segmented circle or at a central location if no segmented circle exists.

3-9. HAZARD MARKING AND LIGHTING.

Provide prominent, comprehensible warning indicators for any area affected by construction that is normally accessible to aircraft, personnel, or vehicles. Using appropriate hazard marking and lighting may prevent damage, injury, traffic delays, and/or facility closures. Hazard marking and lighting must restrict access and make specific hazards obvious to pilots, vehicle drivers, and other personnel. Barricades, traffic cones (weighted or sturdily attached to the surface), or flashers are acceptable methods used to identify and define the limits of construction and hazardous areas on airports.

Provide temporary hazard marking and lighting to prevent aircraft from taxiing onto a closed runway for takeoff and to identify open manholes, small areas under repair, stockpiled material, and waste areas. Also consider less obvious construction-related hazards and include markings to identify FAA, airport, and National Weather Service facilities cables and power lines; instrument landing system (ILS) critical areas; airport surfaces, such as RSA, OFA, and OFZ; and other sensitive areas to make it easier for contractor personnel to avoid these areas.

The construction specifications must include a provision requiring the contractor to have a person on call 24 hours a day for emergency maintenance of airport hazard lighting and barricades. The contractor must file the contact person's information with the airport.

a. Nonmovement areas.

Indicate construction locations on nonmovement areas in which no part of an aircraft may enter by using barricades that are marked with diagonal, alternating orange and white stripes. Barricades may be supplemented with alternating orange and white flags at least 20 by 20 inches (50 by 50 cm) square and made and installed so they are always in an extended position, properly oriented, and securely fastened to eliminate jet engine ingestion. Such barricades may be many different shapes and made from various materials, including railroad ties, sawhorses, jersey barriers, or barrels. During reduced visibility or night hours, supplement the barricades with red lights, either flashing or steady-burning, which should meet the luminance requirements of the State Highway Department (yellow lights are not acceptable after October 1, 2004). The intensity of the lights and spacing for barricade flags and lights must adequately and without ambiguity delineate the hazardous area.

h. Movement areas.

Use orange traffic concs; red lights, either flashing or steady-burning, which should meet the luminance requirements of the State Highway Department (yellow lights are not acceptable after October 1, 2004); collapsible barricades marked with diagonal, alternating orange and white stripes; and/or signs to separate all construction/maintenance areas from the movement area. All barricades, temporary markers, and other objects placed and left in safety areas associated with any open runway, taxiway, or taxilane must be as low as possible to the ground; of low mass; easily collapsible upon contact with an aircraft or any of its components; and weighted or sturdily attached to the surface to prevent displacement from prop wash, jet blast, wing vortex, or other surface wind currents. If affixed to the surface, they must be frangible at grade level or as low as possible, but not to exceed 3 inches (7.6cm) above the ground. Do not use nonfrangible hazard markings, such as concrete barriers and/or mctal-drum-type barricades, in aircraft movement areas. Do not use railroad ties on runways.

Use highly reflective barriers with flashing or steadyburning red lights to barricade taxiways leading to closed runways. Evaluate all operating factors when determining how to mark temporary closures that can last from 10 to 15 minutes to a much longer period of time. However, we strongly recommend that, even for closures of relatively short duration, major taxiway/runway intersections be identified with barricades spaced no greater than 20 fect (6m) apart. Mark the barricades with a flashing or steady-burning red light. At a minimum, use a single barricade placed on the taxiway centerline.

3-10. CONSTRUCTION NEAR NAVIGATIONAL AIDS (NAVAIDS).

Construction activities, materials/equipment storage, and vehicle parking near electronic NAVAIDs require special consideration since they may interfere with signals essential to air navigation. Evaluate the effect of construction activity and the required distance and direction from the NAVAID for each construction project. Pay particular attention to stockpiling material, as well as

to movement and parking of equipment that may interfere with line of sight from the ATCT or with electronic emissions. Interference from construction may require NAVAID shutdown or adjustment of instrument approach minimums for IFR. This condition requires that a NOTAM be filed. Construction activities and materials/equipment storage near a NAVAID may also obstruct access to the equipment and instruments for maintenance. Before commencing construction activity, parking vehicles, or storing construction equipment and materials near a NAVAID, consult with the nearest FAA Airway Facilities Office.

3-11. CONSTRUCTION SITE ACCESS AND HAUL ROADS.

Determine the construction contractor's access to the construction sites and haul roads. Do not permit the construction contractor to use any access or haul roads other than those approved. Construction contractors must submit specific proposed routes associated with construction activities to the airport operator for evaluation and approval as part of the safety plan before beginning construction activities. These proposed routes must also provide specifications to prevent inadvertent entry to movement areas. Pay special attention to ensure that ARFF right of way on access and haul roads is not impeded at any time and that construction traffic on haul roads does not interfere with NAVAIDs or approach surfaces of operational runways.

3-12. CONSTRUCTION MATERIAL STOCKPILING.

Stockpiled materials and equipment storage are not permitted within the RSA and OFZ of an operational runway. The airport operator must ensure that stockpiled materials and equipment adjacent to these areas are prominently marked and lighted during hours of restricted visibility or darkness. This includes determining and verifying that materials are stored at an approved location to prevent foreign object damage and attraction of wildlife.

3-13. OTHER LIMITATIONS ON CONSTRUCTION.

Contractors may not use open-flame welding or torches unless adequate fire safety precautions are provided and the airport operator has approved their use. Under no circumstances should flare pots be used within the AOA at any time. The use of electrical blasting caps must not be permitted on or within 1,000 feet (300m) of the airport property (see AC 150/5370-10, Standards for Specifying Construction of Airports).

3-14. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT.

Waste and loose materials, commonly referred to as FOD, are capable of causing damage to aircraft landing gears, propellers, and jet engines. Construction contractors must

not leave or place FOD on or near active aircraft movement areas. Materials tracked onto these areas must be continuously removed during the construction project. We also recommend that airport operators and construction contractors carefully control and continuously remove waste or loose materials that might attract wildlife.

Section 4. Safety Hazards and Impacts

3-15. OVERVIEW.

The situations identified below are potentially hazardous conditions that may occur during airport construction projects. Safety area encroachments, unauthorized and improper ground vehicle operations, and unmarked or uncovered holes and trenches near aircraft operating surfaces pose the most prevalent threats to airport operational safety during airport construction projects. Airport operators and contractors should consider the following when performing inspections of construction activity:

- Excavation adjacent to runways, taxiways, and aprons.
- b. Mounds of earth, construction materials, temporary structures, and other obstacles near any open runway, taxiway, or taxilane; in the related object-free area and aircraft approach or departure areas/zones; or obstructing any sign or marking.
- c. Runway resurfacing projects resulting in lips exceeding 3 inches (7.6cm) from pavement edges and ends.
- d. Heavy equipment (stationary or mobile) operating or idle near AOAs, in runway approaches and departures areas, or in OFZs.
- e. Equipment or material near NAVAIDs that may degrade or impair radiated signals and/or the monitoring of navigational and visual aids. Unauthorized or improper vehicle operations in localizer or glide slope critical areas, resulting in electronic interference and/or facility shutdown.
- f. Tall and especially relatively low-visibility units (i.e., equipment with slim profiles)—cranes, drills, and similar objects—located in critical areas, such as OFZs and approach zones.
- g. Improperly positioned or malfunctioning lights or unlighted airport hazards, such as holes or excavations, on any apron, open taxiway, or open taxilane or in a related safety, approach, or departure area.
- h. Obstacles, loose pavement, trash, and other debris on or near AOAs. Construction debris (gravel,

sand, mud, paving materials, etc.) on airport pavements may result in aircraft propeller, turbine engine, or tire damage. Also, loose materials may blow about, potentially causing personal injury or equipment damage.

- i. Inappropriate or poorly maintained fencing during construction intended to deter human and animal intrusions into the AOA. Fencing and other markings that are inadequate to separate construction areas from open AOAs create aviation hazards.
- j. Improper or inadequate marking or lighting of runways (especially thresholds that have been displaced or runways that have been closed) and taxiways that could cause pilot confusion and provide a potential for a runway incursion. Inadequate or improper methods of marking, barricading, and lighting of temporarily closed portions of AOAs create aviation hazards.
- k. Wildlife attractants—such as trash (food scraps not eollected from construction personnel activity), grass seeds, or ponded water—on or near airports.
- J. Obliterated or faded markings on active operational areas.
- m. Misleading or malfunctioning obstruction lights. Unlighted or unmarked obstructions in the approach to any open runway pose aviation hazards.
- n. Failure to issue, update, or cancel NOTAMs about airport or runway closures or other construction-related airport conditions.
- o. Failure to mark and identify utilities or power cables. Damage to utilities and power cables during eonstruction activity can result in the loss of runway/taxiway lighting; loss of navigational, visual, or approach aids; disruption of weather reporting services; and/or loss of communications.
- p. Restrictions on ARFF access from fire stations to the runway-taxiway system or airport buildings.
- q. Lack of radio communications with construction vehicles in airport movement areas.
- r. Objects, regardless of whether they are marked or flagged, or activities anywhere on or near an airport

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that could be distracting, confusing, or alarming to pilots during aircraft operations.

- s. Water, snow, dirt, debris, or other contaminants that temporarily obscure or derogate the visibility of runway/taxiway marking, lighting, and pavement edges. Any condition or factor that obscures or diminishes the visibility of areas under construction.
- t. Spillage from vehicles (gasoline, diesel fuel, oil, etc.) on active pavement areas, such as runways, taxiways, ramps, and airport roadways.
- u. Failure to maintain drainage system integrity during construction (e.g., no temporary drainage provided when working on a drainage system).

- v. Failure to provide for proper electrical lockout and tagging procedures. At larger airports with multiple maintenance shifts/workers, construction contractors should make provisions for coordinating work on circuits.
- w. Failure to control dust. Consider limiting the amount of area from which the contractor is allowed to strip turf.
- x. Exposed wiring that creates an electrocution or fire ignition hazard. Identify and secure wiring, and place it in conduit or bury it.
- y. Site burning, which can cause possible obseuration.
- z. Construction work taking place outside of designated work areas and out of phase.

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APPENDIX 1. RELATED READING MATERIAL

- 1. Obtain the latest version of the following free publications from the FAA on its Web site at http://www.faa.gov/arp/. In addition, these ACs are available by contacting the U.S. Department of Transportation, Subsequent Distribution Office, SVC-121.23, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785.
- a. AC 150/5200-28, Notices to Airmen (NOTAM) for Airport Operators. Provides guidance for the use of the NOTAM System in airport reporting.
- b. AC 150/5200-30, Airport Winter Safety and Operations. Provides guidance to airport owners/operators on the development of an acceptable airport snow and ice control program and on appropriate field condition reporting procedures.
- c. AC 150/5200-33, Hazardous Wildlife Attractants On or Near Airports. Provides guidance on locating certain land uses having the potential to attract hazardous wildlife to public-use airports.
- d. AC 150/5210-5, Painting, Marking, and Lighting of Vehicles Used on an Airport. Provides guidance, specifications, and standards for painting, marking, and lighting vehicles operating in the airport air operations areas.
- e. AC 150/5220-4, Water Supply Systems for Aircraft Fire and Rescue Protection. Provides guidance for the selection of a water source and standards for the design of a distribution system to support aircraft rescue and fire fighting service operations on airports.
- f. AC 150/5340-1, Standards for Airport Markings. Contains FAA standards for markings used on airport runways, taxiways, and aprons.
- g. AC 150/5340-14B, Economy Approach Lighting Aids. Describes standards for the design, selection, siting, and maintenance of economy approach lighting aids.

- h. AC 150/5340-18, Standards for Airport Sign Systems. Contains FAA standards for the siting and installation of signs on airport runways and taxiways.
- i. AC 150/5345-28, Precision Approach Path Indicator (PAPI) Systems. Contains the FAA standards for PAPI systems, which provide pilots with visual glide slope guidance during approach for landing.
- j. AC 150/5380-5, Debris Hazards at Civil Airports. Discusses problems at airports, gives information on foreign objects, and explains how to eliminate such objects from operational areas.
- k. AC 70/7460-2, Proposed Construction or Alteration of Objects that May Affect the Navigable Airspace. Provides information to persons proposing to erect or alter an object that may affect navigable airspace and explains the need to notify the FAA before construction begins and the FAA's response to those notices, as required by 14 CFR part 77.
- 2. Obtain copies of the following publications from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Send a check or money order made payable to the Superintendent of Documents in the amount stated with your request. The Government Printing Office does not accept C.O.D. orders. In addition, the FAA makes these ACs available at no charge on the Web site at http://www.faa.gov/arp/.
- a. AC 150/5300-13, Airport Design. Contains FAA standards and recommendations for airport design, establishes approach visibility minimums as an airport design parameter, and contains the object-free area and the obstacle free-zone criteria. (\$26. Supt. Docs.) SN050-007-01208-0.
- b. AC 150/5370-10, Standards for Specifying Construction of Airports. Provides standards for construction of airports. Items covered include earthwork, drainage, paving, turfing, lighting, and incidental construction. (\$18. Supt. Docs.) SN050-007-0821-0.

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APPENDIX 2. DEFINITIONS OF TERMS USED IN THE AC

- 1. AIR OPERATIONS AREA (AOA). Any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operations area includes such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runways, taxiways, or aprons.
- CONSTRUCTION. The presence and movement of construction-related personnel, equipment, and materials in any location that could infringe upon the movement of aircraft.
- 3. CERTIFICATED AIRPORT. An airport that has been issued an Airport Operating Certificate by the FAA under the authority of 14 CFR part 139, Certification and Operation: Land Airports Serving Certain Air Carriers, or its subsequent revisions.
- 4. FAA FORM 7460-1, NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION. The form submitted to the FAA Regional Air Traffic or Airports Division Office as formal written notification of any kind of construction or alteration of objects that affect navigable airspace, as defined in 14 CFR part 77, Objects Affecting Navigable Airspace (see AC 70/7460-2, Proposed Construction or Alteration of Objects that May Affect the Navigable Airspace, found at http://www.faa.gov/arp/).
- 5. FAA FORM 7480-1, NOTICE OF LANDING AREA PROPOSAL. Form submitted to the FAA Airports Regional Division Office or Airports District Office as formal written notification whenever a project without an airport layout plan on file with the FAA involves the construction of a new airport; the construction, realigning, altering, activating, or abandoning of a runway, landing strip, or associated taxiway; or the deactivation or abandoning of an entire airport (found at http://www.faa.gov/arp/).
- 6. MOVEMENT AREA. The runways, taxiways, and other areas of an airport that are used for taxiing or hover taxiing, air taxiing, takeoff, and landing of aircraft, exclusive of loading ramps and aircraft parking areas (reference 14 CFR part 139).
- 7. OBSTRUCTION. Any object/obstacle exceeding the obstruction standards specified by 14 CFR part 77, subpart C.

- 8. OBJECT-FREE AREA (OFA). An area on the ground centered on the runway, taxiway, or taxilane centerline provided to enhance safety of aircraft operations by having the area free of objects except for those objects that need to be located in the OFA for air navigation or aircraft ground maneuvering purposes (see AC 150/5300-13, Airport Design, for additional guidance on OFA standards and wingtip clearance criteria).
- 9. OBSTACLE-FREE ZONE (OFZ). The airspace below 150 feet (45m) above the established airport elevation and along the runway and extended runway centerline that is required to be clear of all objects, except for frangible visual NAVAIDs that need to be located in the OFZ because of their function, in order to provide clearance protection for aircraft landing or taking off from the runway and for missed approaches (refer to AC 150/5300-13 for guidance on OFZs).
- 10. RUNWAY SAFETY AREA (RSA). A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway, in accordance with AC 150/5300-13.
- 11. TAXIWAY SAFETY AREA. A defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an airplane unintentionally departing the taxiway, in accordance with AC 150/5300-13.
- **I2. THRESHOLD.** The beginning of that portion of the runway available for landing. In some instances, the landing threshold may be displaced.
- 13. DISPLACED THRESHOLD. The portion of pavement behind a displaced threshold that may be available for takeoffs in either direction or landing from the opposite direction.
- 14. VISUAL GLIDE SLOPE INDICATOR (VGSI). This device provides a visual glide slope indicator to landing pilots. These systems include precision approach path indicators (PAPIs), visual approach slope indicators (VASIs), and pulse light approach slope indicators (PLASIs).

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APPENDIX 3. AIRPORT CONSTRUCTION SAFETY PLANNING GUIDE

Aviation Safety Requirements During Construction

PURPOSE. This appendix provides airport operators with boilerplate format and language for developing a safety plan for an airport construction project. Adapt this appendix, as applicable, to specific conditions found on the airport for which the plan is being developed. Consider including a copy of this safety plan in the construction drawings for easy access by contractor personnel. Plans should contain the following:

1. GENERAL SAFETY REQUIREMENTS.

Throughout the construction project, the following safety and operational practices should be observed:

- Operational safety should be a standing agenda item during progress meetings throughout the construction project.
- The contractor and airport operator must perform onsite inspections throughout the project, with immediate remedy of any deficiencies, whether caused by negligence, oversight, or project scope change.
- Airport runways and taxiways should remain in use by aircraft to the maximum extent possible.
- Aircraft use of areas near the contractor's work should be controlled to minimize disturbance to the contractor's operation.
- Contractor, subcontractor, and supplier employees or any unauthorized persons must be restricted from entering an airport area that would be hazardous.
- Construction that is within the safety area of an active runway, taxiway, or apron that is performed under normal operational conditions must be performed when the runway, taxiway, or apron is closed or use-restricted and initiated only with prior permission from the airport operator.
- The contracting officer, airport operator, or other designated airport representative may order the contractor to suspend operations; move personnel, equipment, and materials to a safe location; and stand by until aircraft use is completed.

2. CONSTRUCTION MAINTENANCE AND FACILITIES MAINTENANCE.

Before beginning any construction activity, the contractor must, through the airport operator, give notice [using the Notice to Airmen (NOTAM) System] of proposed location, time, and date of commencement of construction. Upon completion of work and return of all such areas to standard conditions, the contractor must, through the airport operator, verify the cancellation of all notices issued via the NOTAM System. Throughout the duration of the construction project, the contractor must—

- a. Be aware of and understand the safety problems and hazards described in AC 150/5370-2, Operational Safety on Airports During Construction.
- b. Conduct activities so as not to violate any safety standards contained in AC 150/5370-2 or any of the references therein.
- c. Inspect all construction and storage areas as often as necessary to be aware of conditions.
- d. Promptly take all actions necessary to prevent or remedy any unsafe or potentially unsafe conditions as soon as they are discovered.

3. APPROACH CLEARANCE TO RUNWAYS.

Runway thresholds must provide an unobstructed approach surface over equipment and materials. (Refer to Appendix 2 in AC 150/5300-13, Airport Design, for guidance in this area.)

4. RUNWAY AND TAXIWAY SAFETY AREA (RSA AND TSA).

Limit construction to outside of the approved RSA, as shown on the approved airport layout plan—unless the runway is closed or restricted to aircraft operations, requiring a lesser standard RSA that is equal to the RSA available during construction (see AC 150/5370-2 for exceptions). Construction activity within the TSA is permissible when the taxiway is open to aircraft traffic if adequate wingtip clearance exists between the aircraft and equipment/material; evacuations, trenches, or other conditions are conspicuously marked and lighted; and local NOTAMs are in effect for the activity (see AC 150/5300-13 for wingtip clearance requirements). The NOTAM should state that, "personnel and equipment are working adjacent to Taxiway......."

a. Procedures for protecting runway edges.

 Limit construction to no closer than 200 fcet (60m) from the runway centerline—unless the runway is closed or restricted to aircraft operations, requiring a lesser standard RSA

- that is equal to the RSA available during construction.
- Prevent personnel, material, and/or equipment, as defined in AC 150/5300-13, Paragraph 306, "Obstacle Free Zone (OFZ)," from penetrating the OFZ.

 Coordinate construction activity with the Airport Traffic Control Tower (ATCT) and FAA Regional Airports Division Office or Airports District Office, and through the airport operator, issue an appropriate NOTAM.

Complete the following chart to determine the area that must be protected along the runway edges:

Runway	Aircraft Approach— Category*	Airplane Design Group*	RSA-Width in Feet Divided by 2*
	A, B, C, of D	I, II, III, or IV	

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*See AC 150/5300-13, Airport Design, to complete the chart for a specific runway.

b. Procedures for protecting runway ends.

- Maintain the RSA from the runway threshold to a point at least the distance from the runway threshold as existed before construction activity—unless the runway is closed or restricted to aircraft operations, requiring an RSA that is equal to the RSA length available during construction in accordance with AC 150/5300-13. This may involve the use of declared distances and partial runway closures (see AC 150/5370-2 for exceptions).
- Ensure all personnel, materials, and/or equipment are clear of the applicable threshold siting criteria surface, as defined in Appendix 2, "Threshold Siting Requirements," of AC 150/5300-13.

- Prevent personnel, material, and/or equipment, as defined in AC 150/5300-13, from penetrating the obstacle-free zone.
- Ensure adequate distance for blast protection is provided, as needed.
- Coordinate construction activity with the ATCT and FAA Regional Airports Division Office or Airports District Office, and through the airport operator, issue an appropriate NOTAM.
- Provide a drawing showing the profile of the appropriate surfaces of each runway end where construction will take place. Where operations by turbojet aircraft are anticipated, review takeoff procedures and jet blast characteristics of aircraft and incorporate safety measures for construction workers in the contract documents.

1/17/03 AC 150/5370-2E

Complete the following chart to determine the area that must be protected before the runway threshold:

Number	Airplane Design Group*	Aircraft Approach Category* A, B, C, or D	Minimum Safety Area Prior to the Threshold*	Approach Slope
3nastadain			: FEET	: 1 to (threshold)
	***************************************		: FEET	: 1 to (threshold)
	•	***************************************	: FEET	: 1 to (threshold)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			: FEET	: 1 to (threshold)

^{*}See AC 150/5300-13, Airport Design, to complete the ehart for a specific runway.

5. MARKING AND LIGHTING FOR TEMPORARY THRESHOLDS.

Marking and lighting for a temporary threshold is _____/is not ____ required. The airport owner or contractor, as specified in the contract, will furnish and maintain markings for temporary thresholds. Precision approach path indicators (PAPIs) or runway end identification lights (REIL) are ____/are not ___ required. The airport owner or contractor, as specified in the contract, will furnish and install all temporary lighting. Include appropriate items per AC 150/5370-2, Chapter 3, "Safety Standards and Guidelines." If marking and lighting for the temporary threshold is not required, delete this section of the safety plan. If visual aids and/or markings are necessary, provide details. (Include applicable 14 CFR part 77 surfaces in the contract documents.)

6. CLOSED RUNWAY MARKINGS AND LIGHTING.

The following must be specified	for closed runways.
Closed runway marking are	/are not required.
Closed runway markings will be	as shown on the
plans/as furnished by the ai	rport
owner /other (specify).	Barricades, flagging,
and flashers are/are not	required at Taxiway
and Runway and will be sup	plied by the airport
/other(specify).	•

7. HAZARDOUS AREA MARKING AND LIGHTING.

Hazardous areas on the movement area will be marked with barricades, traffic cones, flags, or flashers (specify). These markings restrict access and make hazards obvious to aircraft, personnel, and vehicles. During periods of low visibility and at night, identify hazardous areas with red flashing or steady-burning lights (specify). The hazardous area marking and lighting will be supplied by

the airport operator/contractor, as specified in the contract, and will be depicted on the plans.

8. TEMPORARY LIGHTING AND MARKING.

Airport markings, lighting, and/or signs will be altered in the following manner (specify) during the period from to ______. The alterations are depicted on the plans.

9. VEHICLE OPERATION MARKING AND CONTROL.

Include the following provisions in the construction contract, and address them in the safety plans:

- a. When any vchicle, other than one that has prior approval from the airport operator, must travel over any portion of an aircraft movement area, it will be escorted and properly identified. To operate in those areas during daylight hours, the vehicle must have a flag or beacon attached to it. Any vehicle operating on the movement areas during hours of darkness or reduced visibility must be equipped with a flashing dome-type light, the color of which is in accordance with local or state codes.
- b. It may be desirable to clearly identify the vehicles for control purposes by either assigned initials or numbers that are prominently displayed on each side of the vehicle. The identification symbols should be at minimum 8-inch (20-cm) block-type characters of a contrasting color and easy to read. They may be applied either by using tape or a water-soluble paint to facilitate removal. Magnetic signs are also acceptable. In addition, vehicles must display identification media, as specified in the approved security plan. (This section should be revised to conform to the airport operator's requirements.)

c.	Emple	oyee pa	rking sh	iall be		
	_					_(specify
location	ı), as de	signate	d by the	е аігро	rt mana	iger/
project	enginee	:г	_/other		_ (speci	ify).
(speeify	route); enginee	as sho	i job site wn on ti /design	he plar ated b	ns y the	_/designated
superin	tendent		/designa			port
manage	ıΓ	/other		(speci	fy).	

- e. At 14 CFR part 139 certificated and towered airports, all vehicle operators having access to the movement area must be familiar with airport procedures for the operation of ground vehicles and the consequences of noncompliance.
- f. If the airport is certificated and/or has a security plan, the airport operator should check for guidance on the additional identification and control of construction equipment.

10. NAVIGATIONAL AIDS.

The contractor must not conduct any construction activity within navigational aid restricted areas without prior approval from the local FAA Airway Facilities sector representative. Navigational aids include instrument landing system components and very high-frequency omnidirectional range, airport surveillance radar. Such restricted areas are depicted on construction plans.

11. LIMITATIONS ON CONSTRUCTION.

Additional limitations on construction include—

a. Prohibiting open-flame welding or torch cutting operations unless adequate fire safety precautions are provided and these operations have been authorized by the airport operator (as tailored to conform to local requirements and restrictions).

- b. Prominently marking open trenches, excavations, and stockpiled materials at the construction and lighting these obstacles during hours of restricted visibility and darkness.
- Marking and lighting closed, deceptive, and hazardous areas on airports, as appropriate.
- d. Constraining stockpiled material to prevent its movement as a result of the maximum anticipated aircraft blast and forecast wind conditions.

12. RADIO COMMUNICATIONS.

Vehicular traffic located in or crossing an active movement area must have a working two-way radio in contact with the control tower or be escorted by a person in radio contact with the tower. The driver, through personal observation, should confirm that no aircraft is approaching the vehicle position. Construction personnel may operate in a movement area without two-way radio communication provided a NOTAM is issued closing the area and the area is properly marked to prevent incursions. Two-way radio communications are not required between contractors and the Airport Traffic Control Tower /FAA Flight Scrvice /Airport Aeronautical Advisory Stations Station (UNICOM/CTAF) __. Radio contact is _ required between the hours of and Continuous monitoring is required /or is required only when equipment movement is necessary in certain . (This section may be tailored to suit the specific vehicle and safety requirements of the airport sponsor.)

13. DEBRIS.

Waste and loose material must not be placed in active movement areas. Materials tracked onto these areas must be removed continuously during the work project.

APPENDIX 4. SAMPLE NOTAM

		AIRPORT			
FAA NOTAM #			DATE:		
AIRPORT I.D. #				TIME:	
NOTAM TEX	KT:				
NOTIFICAT(ON:				
				CALLED IN BY	
####FSS					
				CALLED IN BY	
			AIRLINES		
			WYV.	·····	
CANCELLEI):				
NOTIFICATO					
#### TOWE					
	PHONE #	INITIALS	TIME	CALLED IN BY	
####FSS					
	PHONE #	INITIALS	TIME	CALLED IN BY	
			AIRLINES		

Tariff for Retail Delivery Service TXU Electric Delivery Company

6.3 Agreements and Forms

Applicable: Entire Certified Service Area

Page 2 of 23 Effective Date: January 1, 2002 Revision: Original

6.3.1 Facilities Extension Agreement

	Project Number	
	WR Number	1992629 and 2041434
	Region/District	Farmers Branch
This Agreement is made between Town of Addison 'Customer" and TXU Electric Delivery Company, a Texas of Company Delivery System facilities, as hereinafter describer underground at seven locations between Surveyor and Midv underground approximately 400 feet in duct bank on east sic Road and crossing Midway north and south of the railroad tr Addison Road approximately 100 feet west of intersection way. The Company has received a request for the extension of:	d, to the following location: c way Roads from pole line on a de of Midway where Arapaho acks; and from pole line on e ith Arapaho Road to relocate	rossing Arapaho Road south side of railroad tracks; Road bridge crosses Midway ast side of Addison Road across
STANDARD DELIVERY SYSTEM FACILITIES TO NON-R Company shall extend standard Delivery Sys	ESIDENTIAL DEVELOPMENT	erve Customer's estimated
maximum demand requirement of hereunder will be of the character commonly phase, at 60 hertz, with reasonable variation	_kW ("Contract kW"). The D described as	elivery System facilities installed
☐ STANDARD DELIVERY SYSTEM FACILITIES TO RESIDE	ENTIAL DEVELOPMENT	
Company shall extend standard Delivery Sys	tem facilities necessary to se	rve:
Number of loss/units) All-electric residential I	ot(s)/apartment units, or	
[Number of loss/units] Electric and gas reside	ential lot(s)/apartment units.	
The Delivery System facilities installed hereu as volt, allowed.	nder will be of the character of the phase, at 60 hertz, with	

x Non-Standard Delivery System Facilities

Company shall extend/install the following non-standard facilities:

TXU Electric Delivery removes seven overhead services that cross Arapaho Road from Surveyor to Midway and replaces with underground cable. Company installs pads and sets two new padmounted transformers to serve, two of these customers, Bulloughs-Lykos and Absolute Systems, who are converting their point of delivery from overhead to underground, Town of Addison supplies and installs at its expense conduit and spare for all six services. Town of Addison also performs all electric work past the company's point of ownership at each service location. Company removes overhead lines on east and west sides of Midway where Arapaho Road crosses, replaces with underground cable, and installs the four overhead/underground transitions at existing or relocated pole locations. Town of Addison reserves the option to perform all civil work associated with the relocation of the overhead wires at the above mentioned Midway crossing to underground, including the duct bank and the two bores across Midway, north and south of the railroad tracks. The transformer pole serving the customers at 15289 Addison Road at the southwest corner of the intersection of Arapaho and Addison Roads will be relocated to clear Arapaho Road and retain its overhead wire attachments until the Addison Road project replaces the overhead wires with underground cable.

ARTICLE I - PAYMENT BY CUSTOMER

At the time of acceptance of this Agreement by Customer, Customer will pay to Company Two hundred and eighty two thousand nine hundred and forty eight Dollars (\$ 282,948) as payment for the Customer's portion of the cost of the

Tariff for Retail Delivery Service TXU Electric Delivery Company

6.3 Agreements and Forms

Applicable: Entire Certified Service Area Effective Date: January 1, 2002

Page 2 of 23 Revision: Original

extension of Company facilities, in accordance with Company's Facilities Extension Policy, such payment to be and remain the property of the Company.

ARTICLE II - NON-UTILIZATION CLAUSE FOR STANDARD DELIVERY SYSTEM FACILITIES

This Article II applies only to the installation of standard Delivery System facilities.

- a.The amount of Contribution in Aid of Construction ("CIAC") to be paid by Customer under Article I above is calculated based on the estimated data (i.e., Contract kW or number and type of lots/units) supplied by Customer and specified above. Company will conduct a review of the actual load or number and type of lots/units at the designated location to determine the accuracy of the estimated data supplied by Customer. If, within two (2) years after Company completes the extension of Delivery System facilities, the estimated load as measured by actual maximum kW billing demand at said location has not materialized or the estimated number and type of dwelling units/lots at said location have not been substantially completed, Company will re-calculate the CIAC based on actual maximum kW billing demand realized or the number and type of substantially completed dwelling units/lots. For purposes of this Agreement, a dwelling unit/lot shall be deemed substantially completed upon the installation of Company's meter. The installation of a Company meter in connection with Temporary Delivery Service does not constitute substantial completion.
- b.Customer will pay to Company a "non-utilization charge" in an amount equal to the difference between the recalculated CIAC amount and the amount paid by Customer under Article I, above. Company's invoice to Customer for such "non-utilization charge" is due and payable within fifteen (15) days after the date of the invoice.

ARTICLE III - TITLE AND OWNERSHIP

Company at all times shall have title to and complete ownership and control over the Delivery System facilities extended under this Agreement.

ARTICLE IV - GENERAL CONDITIONS

Delivery service is not provided under this Agreement.	However, Customer understands that, as a result of the
installation provided for in this Agreement, the Delivery	of Electric Power and Energy by Company to the specified location
will be provided in accordance with Rate Schedule	, which may from time to time be amended
or succeeded.	

This Agreement supersedes all previous agreements or representations, either written or oral, between Company and Customer made with respect to the matters herein contained, and when duly executed constitutes the agreement between the parties hereto and is not binding upon Company unless and until signed by one of its duly authorized representatives.

ARTICLE V - OTHER SPECIAL CONDITIONS

The (entity name) agrees that the payment indicated in ARTICLE I of this Agreement shall be made within 30 days of the date the project is completed or the date the invoice is received, whichever is later.

ACCEPTED BY COMPANY:	ACCEPTED BY CUSTOMER:
Signature Senior Engineer	City MANAGER
August 3, 2004	Title 8/17/04
Date-Signed /	Date Signed