

THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB PURCHASING AGENT

GWEN MCLAREN, CPPB ASST. PURCHASING AGENT

COUNTY COURTHOUSE 722 Moody (21st Street) Fifth (5th) Floor GALVESTON, TEXAS 77550

November 14, 2019

PROJECT NAME: Bacliff Villas Drainage Restoration

SOLICITATION NO: B201010

RE: ADDENDUM #1

To All Prospective Bidders:

The following information is being provided to aid in preparation of your proposal submittal(s):

Question #1: Is a sign-in sheet available from the pre-bid meeting that was held on November 5th at

10:00 a.m.?

Response: The pre-bid meeting sign-in sheet is attached with this addendum.

Question #2: If open cut construction is utilized, there will be a lot of extra work required including

clearing, fence removal and replacement, temporary fencing, and restoration of the

easement. How will this additional work be paid?

Response: A separate pay item for each intersection and specification will be added in this

addendum to compensate for removing and reinstalling any objects needed for open cutting the storm sewer. See attached Bid Proposal and Specification 02201 – SITE

PREPARATION, GRADING, RESTORATION AND CLEAN UP.

Question #3: Will there be a laydown/staging area for this project?

Response: Yes, the laydown/staging area will be located at 1142 Bacliff Dr., Bacliff, TX 77518.

Question #4: When installing the B-B inlet, how will the B-B inlet transition to existing conditions?

Response: The top of the B-B inlet shall be at the same elevation as the adjacent top of curb. The

contractor will transition at a constant slope behind the B-B inlet to existing grade.

Question #5: If open cutting is needed between the houses, how will the contractor be compensated

for removing and reinstalling the fences, sheds, Ac units, etc.?

Response: See response to Question 2

Question #6: Are off-duty uniformed police officers required?

Response: No; however, flaggers will be required to be certified by one of the providers shown on

the attached pdf (TxDOT Special Provisions to Item 7, paragraph 2.6.5.1.2) or an approved equal. Also, see Note 5 on revised sheet 02 of 19 attached in this addendum.

Question #7: What pipe material will be required for the Additive Alternate No., 1, Item No. 1 (open

cutting between residents)?

Response: 20" CCFRPM Pipe will be required for the Additive Alternate No. 1, Item No. 1 (open

cutting between residents).

As a reminder, all questions regarding this proposal must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB Galveston County Purchasing Agent 722 Moody, Fifth (5th) Floor Galveston, Texas 77550

E-mail: <u>purchasing.bids@co.galveston.tx.us</u>

If you have any further questions regarding this proposal, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at purchasing.bids@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

Rufus G. Crowder, CPPO CPPB

Purchasing Agent Galveston County Bid #B201010 DATE: 11/05/2019 TIME: 10:00 A.M.

PRE-BID CONFERENCE BACLIFF VILLAS DRAINAGE RESTORATION GALVESTON COUNTY, TEXAS

Pre-bid Conference for Bid #B201010 will be held on Tuesday, November 5, 2019 at Galveston County Courthouse, Purchasing Department, 722 Moody, 5th Floor, Galveston, TX

PHONE	409.770.5372	281-496-0066	211-496-0066 110515	409-682-3985	113-937-3081	123-457-628B	409 770 54 53	833-817-0915	(201) 995 -1785	241 950-0678		
E-MAIL ADDRESS	rufus.crowder@co.galveston.tx.us	DMIBIC HUITT- FOLLARS. COM	payers & Hutt. 7, 1/ans . cm	CHASTOPHER, Bearland a Co. galveston, + x. us 409-682-3985	briggw conrad @ hotmail. Em 713-937-3081	Les ser @ hobs saise. Com	H: chand = 6 hand = 100 570 54 53	Sstraner & Gogman Com	cc- ochs 73 + 101. cc.	Laring & Kraffen, net		
COMPANY NAME	Galveston County	MITT-ZOLARS	Huit = 21/ans	CB Road + Bilge	Coursed Gust.	H8745 P. p.e.	GALVESTON COURTY	Lucos Construction	KR Alle, Cong.	KRAllen Const		
SIGNATURE	(As Col	724	The March	John Sand	A GO	R. Ferri	160 csp		MALCO			
PRINTED NAME	Rufus Crowder	DANO Mou	Joe Myms	Chris Bearland	Briay Corrad	KICK ENGUR	MICHOEL SHANDON	Teccob Stowner	Chis My	lary Aller		

BID PROPOSAL

ADDENDUM # 1

BACLIFF VILLAS DRAINAGE RESTORATION

BASE BID

					BASE BID		
ITEM	SPEC.	DESCRIPTION	UNIT	QUAN.	UNIT PRICE IN WORDS	UNIT	TOTAL
NO.	NO.					PRICE	PRICE
1	500	MOBILIZATION & DEMOBILZATION	LS	1			
					DOLLARS ANDCENTS		
2	530	DRIVEWAYS (CONCRETE), 6"	SY	69			
		DEPTH (COMPLETE IN PLACE)			DOLLARS AND CENTS		
3	104	REMOVE CONCRETE	SY	69			
		(DRIVEWAYS), ALL DEPTHS			DOLLARS AND CENTS		
4	104	REMOVE CONCRETE (PAVEMENT)	SY	500			
		INCLUDING CURBS AND GUTTERS, ALL DEPTHS			DOLLARS AND CENTS	-	
5	N/A	MANDREL	EA	7			
					DOLLARS AND CENTS		
6	027260	20" CCFRPM PIPE (SLIPLINING)	LF	837			
		(COMPLETE IN PLACE)			DOLLARS AND CENTS		
7	496	REMOVE STRUCTURE (PIPE),	LF	529			
		ALL SIZES			DOLLARS AND CENTS		
8	496	REMOVE STRUCTURE (INLET)	EA	21.00			
					DOLLARS AND CENTS		
9	464	REINFORCED CONCRETE PIPE	LF	173			
		(ARCHED)(CLASS IV)(DESIGN 1) (13" X 22") (COMPLETE IN PLACE)			DOLLARS AND CENTS		
10	464	REINFORCED CONCRETE PIPE	LF	248			
		(ARCHED)(CLASS IV)(DESIGN 3) (18" X 29")(COMPLETE IN PLACE)			DOLLARS AND CENTS		**
11	026310	HDPE PIPE, 24"	LF	108		1	
		(COMPLETE & IN PLACE)			DOLLARS AND CENTS		
12	465	BB INLET (COMPLETE IN PLACE)	EA	21		1 1	
					DOLLARS AND CENTS		
13	496	REMOVE STRUCTURE (MANHOLE)	EA	7			
					DOLLARS AND CENTS		
14	465	MANHOLE (TYPE C) (PRE-CAST)	EA	7	Winner		
		(COMPLETE IN PLACE)			DOLLARS AND CENTS		
15	465	MANHOLE(TYPE C)(CAST IN PLACE)	EA	1	•		
		(COMPLETE IN PLACE)			DOLLARS AND CENTS		
16	530	INTERSECTION, DRIVEWAYS,	SY	500			
		& TURNOUT(CONCRETE) INCLUDING CURBS & GUTTERS, 6 INCH DEPTH			DOLLARS AND CENTS		
17	502	TRAFFIC CONTROL TO INCLUDE	LS	1	CENTO		
		BARRICADES, SIGNS &FLAGPERSONS		·	DOLLARS AND CENTS		

ADDITIVE ALTERNATE NO. 1

	SPEC.	DESCRIPTION UNIT (QUAN.	UNIT PRICE IN WORDS	UNIT	TOTAL
NO.	NO.					PRICE	PRICE
1		CCFRPM PIPE, 24"OPEN CUT BETWEEN RESIDENTS WITH PROTECTION OF FOUNDATIONS (COMPLETE & IN PLACE)	LF	837	DOLLARS AND CENTS		
2	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF BIG REEF DR	EA	1	DOLLARS AND CENTS	-	
3	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF MOODY REEF DR	EA	1	DOLLARS AND CENTS	-	
4	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF CARANCHUA REEF DR	EA	1	DOLLARS AND CENTS	-	
5	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF DOLLARS REEF DR	EA	1	DOLLARS AND CENTS	-	
6	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF REDFISH REEF DR	EA	1	DOLLARS AND CENTS	-	
7	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF HANNAS REEF DR	EA	1	DOLLARS AND CENTS	-	
8	02201	REMOVING & REINSTALLING ANY OBJECTS NEEEDED FOR OPEN CUTTING BETWEEN RESIDENTS AT THE INTERSECTION OF SCOTT REEF DR	EA	1	DOLLARS AND CENTS		

BID PROPOSAL BACLIFF VILLAS DRAINAGE RESTORATION

BID SUMMARY	BID SUMMARY		
TOTAL - BASE BID:			
TOTAL BASE BID PLUS ALTERNATE NO. 1:			

This Proposal consists of a Base Bid, and an additive alternate. For a bid to be considered responsive all sections must be completed. A combination of Base Bid with or without the Additive Alternate may be awarded for contract, however in no case will the additive alternate only be awarded. The award of the contract will be based on the combination considered to be in the best interest of Galveston County.

SECTION 02201

SITE PREPARATION, GRADING, RESTORATION AND CLEAN UP

PART 1 - GENERAL

1.1 SECTION INCLUDES

This Section covers the clearing, grubbing, grading, final clean-up, fence removal and replacement, air conditioner unit removal and replacement, sheds removal and replacement, temporary fencing and restoration of the site in preparation for hydro mulch or sodding, and move out.

1.2 MEASUREMENT AND PAYMENT

This item will be measured by each as stated on the bid form.

1.3 REFERENCES

A. Federal Seed Act Regulations (Department of Agriculture)

1.4 SUBMITTALS

- A. Submit product data in accordance with Section 01330 Submittal Procedures.
- B. Submit seed to engineer for approval. Submit certification from supplier that each type of seed conforms to these specifications and the requirements of the Texas Seed Law. Certification shall accompany seed delivery.
- C. Submit a certificate stating that fertilizer complies with these specifications and the requirements of the Texas Fertilizer Law.

1.5 SEQUENCE OF WORK

- A. Restoration of each site shall be completed immediately after all work is completed and the storm sewer pipe is returned to service.
- B. After obtaining approval from the County Engineer of satisfactory site restoration, Contractor shall hydro mulch all areas disturbed during construction. The hydro mulch seeding requirements, together with other necessary related work, shall conform to the requirements of this Section.
- C. All fences, walks, driveways or other permanent facilities are to be completed in place before the finished hydro mulch is applied.

PART 2 - PRODUCTS

2.1 MATERIALS

A. All seed must meet the requirements of U.S. Department of Agriculture Rules and Regulations as set forth in Federal Seed Act and Texas Seed Law. Type of seed, purity and germination requirements, date of application and planting dates are as follows:

Application Rate					
Туре	Pounds Per Acre	Planting Date			
Hulled Common Bermuda Grass 98/88	40 January 1 to April 15				
Unhulled Common Bermuda	40				
Grass 98\88					
Annual Rye Grass (Gulf)	50				
Hulled Common Bermuda	40				
98/88	April 15 to Gr	ass			
	October 1				
Unhulled Common Bermuda	40				
Grass 98/88					
Annual Rye Grass	40				

B. Fertilizer:

Fertilizer shall be water soluble with analysis of 10% nitrogen, 20% phosphoric acid and 10% potash. Rate of application shall be 750 pounds per acre except during the period of April 15 through September 1, when the rate shall be reduced to 600 pounds per acre.

C. Mulch:

Mulch shall be virgin wood cellulose fiber made from whole wood chips.

Within the fiber material at least 20% of the fibers will be 10.7 mm in length and 0.27 mm in diameter. Rate of application shall be 2000 pounds per acre. Soil stabilizers such as Terra type III, (or approved equal) shall be applied at a rate of 40 pounds per acre in the flatter portions of the disturbed areas.

PART 3 - EXECUTION

3.1 DESCRIPTION

- A. The work covered by this Section consists of furnishing all labor, materials, equipment, supplies, supervision, tools, fence removal and replacement, air conditioner unit removal and replacement, sheds removal and replacement, temporary fencing, and performing all work necessary for clearing and protection of facilities during construction and top soiling, finish grading, seeding, fertilizing, watering, maintenance, and clean-up of disturbed areas within the individual water plant areas at the completion of work, in accordance with these specifications and as shown on drawings.
- B. Fences shall be installed in the original location as shown on the plans. All damage to existing fencing occurring during construction activities shall be repaired or replaced at the Contractor's expense to a condition equal to or better than existing prior to such damage. Fencing relocated for the convenience of accommodating construction activities shall be returned to its original location at the completion of the work.
- C. Silt fencing and four (4) foot safety fencing is to be installed as indicated on the plans.
- D. All sites shall be restored to a condition equal to or better than that existing prior to construction activities. All holes and open excavations shall be filled and compacted to the density of the surrounding area. Level all washes, ruts, depressions, and mounds to provide a smooth finish with no large debris, dirt clods, or lumps of size that would interfere with the operation of a standard rotary lawnmower.

3.2 MAINTENANCE

The hydro mulch seeding shall be adequately watered until established. Any areas damaged by erosion or areas that do not have acceptable turfing shall be reapplied to the satisfaction of the Engineer.

END OF SECTION

GENERAL NOTES AND SPECIFICATION DATA

THE CONTRACTOR SHALL CARETULY EXAMME. THE DRAWNIGS AND SPECIFICATIONS, WIST THE STEED "THIS WORK, AND OFFICE THE PROPOSED LOCKINGS OF ALL EXISTING WIST. THE STREAM WHITE THE STALL WICHMAN HAS TO BE TAKEN OF COMPINIONS. JUMINATORS, AVAILABLE CERRONGES, MOST SHALL PROPOSED LOCKINGS. MAINTAINES, AVAILABLE CERRONGES, AND SHALL PROPOSED AND THE FROMES.

WHERE A MATERIAL OR PRODUCT IS REFERED TO ON THE DRAWINGS BY A MAUJACULPRES'S BRAND OR STRADE MALE, IT IS FOR THE PURPOSE OF ESTABLISHING STRANDARD OR OUALITY. SMILLAR MATERIALS OR PRODUCTS OF EQUAL OUALITY (METING DESOR REQUIENTIS) FROM OTHER MANUFACTURER'S WILL BE GYEN DUE CONSIDERATION PROVIDED THEY ARE SUBMITTED TO AND APPROVED BY THE ENGINEER.

2 MUD'S SHALL THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE COUNTYS OR THE WID'S FACULTISE CAUSED BY SPECIAL RESPONSE AND SHALL RESPONSE AND SHALL RESPONSE AND SHALL RESPONSE AND SHALL RESPONSE TAKENDER FACULTISES TO SERVICE IN NUMBERS IN CASE OF CONFLICT OR DAMAGE THE AND SHALL SHAL

THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PROPERTY. SHOULD HE'D DRAGARE IN THE MESSEN, OR WITH EACH OTHER, BASE THE BISS ON THE WOST EXPENSIVE COMBINATION OUTLITY AND OUANITY AND OUANITY CHECKEN THE WORK INDUCATED. THE CHORNER WILL CLANEY THE PROJECT REQUIREMENTS IN THE FIVENT OF THE MODIF MENTIONED DISAGREEMENT THE PROJECT REQUIREMENTS IN THE WORK INDUCATION OF THE MODIF MENTIONED DISAGREEMENT.

ARE ARE THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTANING AND FURNISHING PERMITS AND LICENSES, RALMAY, OF INT, COUNTS, STATE OF FEDERAL AS RECOURSE FOR HE PERFORMANCE OF HIS CONTRACT.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED IN THE PROPOSAL AS PAY TEMS SHALL BE CONSIDERED INCIDENTAL AND SEPARATE PAYMENT SHALL BE MADE FOR SAME.

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MIXING OF MATERALS, STORING OF MATERALS, STORING OF EQUIPMENT OR REPAIRING OF ECOMPAINT ON TO'D PARKER OF BROBE EDICAS WILL OF DE PERMITTED NULSS SPECIFICALLY AUTHORISED BY THE ENDNEER. PERMISSION WILL BE GRANED TO STORE MATERIALS ON SUBJECT SURFACES IF NO DAMAGE OF DISCOLGRATION WILL PESSULT.

ALL REMORE, DEMOLESCHE, OBLITERATED, EKCESS, AND WASTE, MATERIALS SHALL BE PROPERLY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF PET-SITE. ANNOLING, HANDLING, SAME, TO ANNOLOGY, BUT ITEMS AND NO SEPRART PAYMENT SHALL BE MADE FOR SAME.

DRAINAGE RESTORATION BACLIFF

VILLAS SUBDIVISION





G.W. R308005.01 05-29-2 N/A (H) N/A (V) F.J.S. D.E.M. CHECKED: C PROJ. NO.: I SHEET 02 DESIGNED: DRAWN:

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NOTES CENERAL

DURING CEPTAIN PHASES OF CONSTRUCTION FLACACEN WILL BE REQUIRED TO DIRECT AND CONTROL TRAFFOR. HIS WORK WILL NOT BE ADD FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BUT ITEMS. FLACACER CONTROL SHALL BE AMENTALIED IN ACCORDANCE WITH THE LATEST TEXAS MANUAL ON UNFORM TRAFFOR CONTROL DEVICES (TAUTICE).

ALL EQUIPMENT SHALL BE OFF THE ROAD BY DARK AND BEFORE DAWN.

EXISTING DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.

LOOSE GRAVEL, UNEVEN PAVEMENT AND ROUGH PAVEMENT SIGNS AND MANITARED THROUGHOUT THE PROJECT ON A CONTINUOUS BY THE ENGINEER.

THE COMPACTOR SALE BE RESPONSEDE FOR CONTROLLINE CECESS DUST AND LOOSE ROCKS FROUGED BY THE MONE. THE CONTROL THESE PROBLETS WHICH ARE RESORABLE AND PRACTICAL TO CONTROL. THESE PROBLETS. SIGNAL OFF ON OPERATURE ALMEN SECULATION OFFERENCES BETWEEN ADJACENT LANES OF GREATER THAN 1 IN.

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IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DIBNOS THE CHESTRECTOR THAN MARI SOLVINED IN THE CONTROL DEALWARGS, THE RESPONSIBLE TO PREPARE AND SUBBUT AN ALTERNALE SET OF PLANS" TO PLAN REVEW SECTION FOR APPROVING TRANSPRING TO METABORATION "THESE PLANS SHALL BE DANKIN TO SELLE ON REPRODUCEDE BYTAKES AND SEALD BE A LUCKSED FROMEREN THE STATE OF TRANS. PLANS SHALL BE DANKIN TO SELLE OF TRANS.

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LANES SHALL BE KEPT CLOSED DURING PAYEMENT SURFACE RESTORATION AND OPENED ONLY AFTER PAYEMENT IS RESTORED COMPLETELY.

TRAFFIC CONTROL NOTES

CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONTROLAWAGE WITH PART V OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.

61/41/11 3TAQ

CONTRACTOR WIL BE RESPONSIBLE FOR REPLACING AND MAINTAINING PAVEMENT MARKINGS WHICH INCLUDE CENTERLINE; BARRIER LINES, LANE LINES AND RAISED PAVEMENT MARKINGS.

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FOR THIS PROJECT, THE CONTRACTOR WILL FURNISH AND MAINTAIN ALL BARRICAGES AND WARRING SOCKS, INCLUDING, LEMPGRARY NAME PORTAGEL TRAFFIC CONTROLLED FUNCES ANY EXCESSARY DURING THE VARROUS PHASES OF CONSTRUCTION. THESE BARRICAGES AND WARRING SORS SHALL BE CONSTRUCTION AND PACED IN ACCORDANCE WITH THE TARRECORE AND CONSTRUCTION STANDARDS, LATEST TEXAS WUTCD AND TYPICAL CONSTRUCTION LAYOUTS, OR AS DIRECTED BY THE ENGMERER.

OR DETAILS OF SIGNS, BARRICADES AND PLACEMENT OF SUCH SEE "BARRICADE AND CONSTRUCTION STANDARDS"...

BARRICADES, SIGNS, AND TRAFFIC HANDLING

TEM 502:

TWO WELS PRIOR TO ANY ALTERATION IN TRAFTIC PATTERNS, THE CONTRACTOR WILL PRODUCE. THE TRONGER. TO'R HIS APPROVAL, A LATIOUT SHOWNER ALL STANS, BARRICARES, STRIPHING AND SOKALLZATION. THE, APPROVAL OF THIS LATIOUT PRESENCE WILL NOT RELIEVE. THE CONTRACTION OF HIS RESPONSIBILITY FOR THE PROTECTION OF THE TRAVELING PUBLIC.

ALL ADVANCE WARNING SIGNS ARE TO BE SET PRIOR TO THE STRATE OF CONSTRUCTION ACTIVITIES AND TO BEAMIN IN PLACE UNIT. ALL CONSTRUCTION ACTIVITIES ARE COMPLETE AND ACCEPTED THE GALVESTON COUNTY. THE CONTRACTOR WILL COCOMPANE, THE THE CALVESTON COUNTY. BEGINETERN OF DEPARTMENT IN SETABLISMING TRAFFIC ROUTES AND LOCATION OF SIGNS.

THE CONTRACTOR SHALL PROVIDE, INSTALL, MONE, REPLACE AND MANITAIN IN A CLEAN AD BOOD CONDITION. ALL PARRICACES, SIGNS, BARRISES, COMES, LIDENS, SONALS, AND OTHER SOUTH THE DEVICES AS WIFE REQUIRED. UPON COMPRETION OF THE WORK, ALL BARRICACES, SIGNS, BARRIERS, ETC. AND EVIDENCE THEREOF SHALL BE REJUNCED BY THE CONTRACTOR.

ACCESS TO ALL BUSINESS AND PRIVATE PROPERIES SHALL BE CONTINUOUSLY MAINTAINED EXCEPT FOR SHORT PRECOS DUBINEO PANNG OPERATIONS AND AS APPROVED BY THE EXGMETER. THE CONTRACTOR SHALL NOTFY PROPERTY OWNERS AT LEAST 48 HOURS PRIOR TO PANNG DORKEMY FILETS.

at the end of the working day the roadways shall be opened to two-way traffic with adequate pavewent markings and signs.

MATERALS FURNISHED AND WORK PERFORMED UNDER THESE PROMISIONS SHALL BE MEXADRED FOR PAYMENT BUT SHALL BE CONSIDERED SUBSIDIARY TO VARIOUS BIO TEMS.

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REVISION

- THIS TRAFFIC CONTROL, PLAN REPRESENTS THE MINIMUM REQUIRED BY TRAFFIC COMPINIONS IN THE LID. CONTINUENT MANIMUM REQUIRED BY TRAFFIC TO SHALL BE LOSED READ TO ALL AND CONTROL WORKEY. THE REMOVE THE REMOVE THE MEN WENNES SHALL BE REMOVED THE REMOVE THE WARRY SHALL BE DETERMED WITH THE MEN WAS THE WARRY SHALL BE SOLID THE WARRY SHALL BE WARRY mi
 - CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, AND OPEN LANES FOR NORMAL TRAFFIC FLOW.

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 FLAGGERS SHALL BE CERTIFIED PER SPECIAL PROVISION TO ITEM NO. 7 OF 		
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FLAGGERS	PARAGRAPH 2.6.5.1.2 - FLAGGER TRAINING.	-
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- LANE CLOSURE TIME(S) SHALL BE SPECIFIED ON THE LANE CLOSURE
- Κ.

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APPROVAL

THE CONTRACTOR WILL NOT BLOCK TRAFFIC WITHOUT PRIOR ENGINEER.

Special Provision to Item 7 Legal Relations and Responsibilities



Item 7, "Legal Relations and Responsibilities," of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Section 7.2.6.5, "Training," is supplemented by the following:

Coordinate enrollment, pay associated fees, and successfully complete Department-approved Training or Contractor-developed Training. Training is valid for the period prescribed by the provider. If no training period is prescribed by the provider, then training is valid for 3 yrs. from the date of completion. The Engineer may require training at a frequency in lieu of the period prescribed based on the Department's needs. Training and associated fees will not be measured or paid for directly but are considered subsidiary to pertinent Items.

2.6.5.1. Department-approved Training. Department-approved training is listed below. For Section 7.2.6.5.1.4., "Other Work Zone Personnel", the Contractor may use Contractor-developed Training in lieu of Department-approved Training.

2.6.5.1.1 Contractor Responsible Person and Alternate.

Provider	Course Title		
American Traffic Safety Services Association	Traffic Control Supervisor		
National Highway Institute ¹	Design and Operation of Work Zone Traffic Control, Work Zone Traffic Control for Maintenance Operations		
Texas Engineering Extension Service	Work Zone Traffic Control for CRPs		
University of Texas Arlington, Division for Enterprise Development	Traffic Control Supervisor		

^{1.} Both classes are required in order to equal the level of training taught in a single class by other providers.

2.6.5.1.2. Flagger Instructor Training.

Provider	Course Title		
American Traffic Safety Services Association	Flagging Instructor Training		
Texas Engineering Extension Service	Train-the-Trainer Flaggers		
National Safety Council	Flagger Instructor Training		
University of Texas at Arlington, Division for Enterprise Development	Certified Instructor: Qualified Flagger Training		

Flagger Training.

Provider	Course Title		
Texas Engineering Extension Service	Flaggers in the Work Zone		
National Safety Council	Work Zone Flagger (Flagger Novice)		
University of Texas Arlington, Division for Enterprise Development	Flaggers in Work Zones		
University of Texas at Arlington, Division for Enterprise Development	Work Zone Traffic Control & Qualified Flagger		
Associated Builders and Contractors, Austin Chapter	Flagger Training		

2.6.5.1.3. Law Enforcement Personnel.

Provider	Course Title
National Highway Institute	Safe and Effective Use of Law Enforcement
	Personnel in Work Zones

2.6.5.1.4. Other Work Zone Personnel.

Provider	Course Title		
American Traffic Safety Services Association	Traffic Control Technician		
Texas Engineering Extension Service	Work Zone Traffic Control		
National Highway Institute	Maintenance of Traffic for Technicians		
National Highway Institute	Maintenance Training Series: Basics of Work Zone Traffic Control		
University of Texas at Arlington, Division for Enterprise Development	Temporary Traffic Control		

- 2.6.5.2. Contractor-developed Training. Develop and deliver Contractor-developed Training meeting the minimum requirements established by the Department. The outline for this training must be submitted to the Engineer for approval at the preconstruction meeting. The CRP or designated alternate may deliver the training in lieu of the Department-approved training. The work performed and materials furnished to develop and deliver the training will not be measured or paid for directly but will be considered subsidiary to pertinent Items.
- 2.6.5.2.1 Flagger Training Minimum Requirements. A Contractor's certified flagging instructor is permitted to train other flaggers.
- 2.6.5.2.2 Other Work Zone Personnel Minimum Requirements. Contractor-developed Training must provide information on the use of personnel protection equipment, occupational hazards and health risks, and other pertinent topics related to traffic management. The type and amount of training will depend on the job duties and responsibilities. Develop training applicable to the work being performed. Develop training to include the following topics:
 - The Life You Save May Be Your Own (or other similar company safety motto)
 - Purpose of the Training
 - It's The Law

2-3 07-15

- To make work zones safer for workers and motorist
- To understand what is needed for traffic control
- To save lives including your own

Personal and Co-Worker Safety

- High Visibility Safety Apparel: Discuss compliant requirements; Inspect regularly for fading and
 reduced reflective properties; If night operations are required, discuss the additional and
 appropriate required apparel in addition to special night work risks; If moving operations are
 underway, discuss appropriate safety measures specific to the situation and traffic control plan.
- Blind Areas: A blind area is the area around a vehicle or piece of construction equipment not visible
 to the operators, either by line of sight or indirectly by mirrors. Discuss the "Circle of Safety" around
 equipment and vehicles; Use of spotters; Maintain eye contact with equipment operators; Use of
 hand signals.
- Runovers and Backovers: Remain alert at all times; Keep a safe distance from traffic; Avoid turning
 your back to traffic and if you must then use a spotter; Stay behind protective barriers, whenever
 possible. Note: It is not safe to sit on or lean against a concrete barrier, these barriers can deflect
 4+ feet when struck by a vehicle.
- Look out for each other, warn co-workers
- Be courteous to motorists
- Do not run across active roadways
- Workers must obey traffic laws and drive courteously while operating vehicles in the work zones.
- Workers must be made aware of company distracted driving policies
- Night Time Operations: Focus should be placed on projects with a nighttime element.
- Traffic Control Training: Basics of Traffic Control.
 - Identify Work Zone Traffic Control Supervisor and other appropriate persons to report issues to when they arise.
 - Work Zone Traffic Control Devices must be in clean and in undamaged condition. If devices have
 been hit but not damaged, put back in their correct place and report to traffic control supervisor. If
 devices have been damaged, replace with new one and report to traffic control supervisor. If
 devices are dirty, faded or have missing or damaged reflective tape clean or replace and report to
 traffic control supervisor. Show examples of non-acceptable device conditions. Discussion on
 various types of traffic control devices to be used and where spacing requirements can be found.
 - Channelizing Devices and Barricades with slanted stripes: Stripes are to slant in the direction you
 want traffic to stay or move to; Demonstrate this with a device.
 - Traffic Queuing: Workers must be made aware of traffic queuing and the dangers created by it.
 Workers must be instructed to immediately notify the traffic control supervisor and other supervisory personnel if traffic is queuing beyond advance warning sign and devices or construction limits.
 - Signs: Signs must be straight and not leaning. Report problems to the traffic control supervisor or other as designated for immediate repair. Covered signs must be fully covered. If covers are damaged or out of place, report to traffic control supervisor or other as designated.

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