SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: STP 2022(538)HESG CONTROL: 0920-38-280
COUNTY: JEFFERSON
LETTING: 08/03/2022
REFERENCE NO: 0708

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
X BID INSERTS (SH. NO.: ALL SHEETS)
_ GENERAL NOTES (SH. NO.:
)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

*****BID INSERTS*****

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
502-6001, 618-6021, 624-6007, 680-6011, 690-6039, 6293-6002
6306-6002, 6306-6007, 6320-6002

*****GENERAL NOTES*****

SHEET C:ITEM 8 & 502 NOTES REVISED, NOTES SHIFTED BETWEEN SHEETS

SHEET D:ITEM 502 NOTES REVISED, NOTES SHIFTED BETWEEN SHEETS.

SHEET E:ITEM 506 NOTE ADDED, NOTES SHIFTED BETWEEN SHEETS

SHEET F:NOTES SHIFTED BETWEEN SHEETS

SHEET G:ITEM 620 & 624 NOTES REVISED, NOTES SHIFTED BETWEEN SHEETS

SHEET H:NOTES SHIFTED BETWEEN SHEETS

DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

SHEET I:NOTES SHIFTED BETWEEN SHEETS

SHEET J:NOTES SHIFTED BETWEEN SHEETS_SO SHEET REMOVED

*****PLANS*****

SHEET 2:(INDEX OF SHEETS) SHEETS 39-42 OMITTED

SHEET 3:(LOCATION MAP) PHELAN & HIGHLAND LOCATIONS REMOVED

SHEET 5-8:(GENERAL NOTES) NOTES REVISED AS ABOVE

SHEET 9:(ESTIMATE & QUANTITY) QUANTITIES REVISED AS NOTED ABOVE

SHEET 10:(QUANTITY SUMMARIES) QUANTITIES REVISED AS NOTED ABOVE

		GENERAL
	1	TITLE SHEET
	2	INDEX OF SHEETS
	3	PROJECT LOCATION
	4-8	GENERAL NOTES
	9	ESTIMATE & QUANTITY
	10	QUANTITY SUMMARY
		TRAFFIC STANDARDS
##	11-12	BTS-1 to BTS-2
##	13-24	BC(1)-21 THRU BC(12)-21
##	25	TPC(1-1)-18
##	26	TCP(1-2)-18
##	27	TCP(1-3)-18
##	28	TCP(1-4)-18
##	29	TS-CF-21
		PROJECT LAYOUTS
	30-36	4th STREET CORRIDOR
	37-38	GLADYS AVENUE CORRIDOR
	~~39-40~~	~~PHELAN BOULEVARD CORRIDOR~~
	~~41-42~~	~~HIGHLAND AVENUE CORRIDOR~~
		ELECTRICAL STANDARDS
##	43	ED (1) - 14
##	44	ED (3) - 14
##	45	ED (4) - 14
##	46	ED (5) - 14
##	47	ED (6) - 14
##	48	ED (8) - 14
##	49	ED (9) - 14
		ENVIRONMENTAL ISSUES
	50	SW3PI
	51	EPIC

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*** TxDOT STANDARDS**
THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH A "##" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

Brandon Belaire — NAME

4.28.2022 — DATE

STATE OF TEXAS
BRANDON G. BELAIRE
138396
LICENSED
PROFESSIONAL ENGINEER

BEAUMONT Public Works

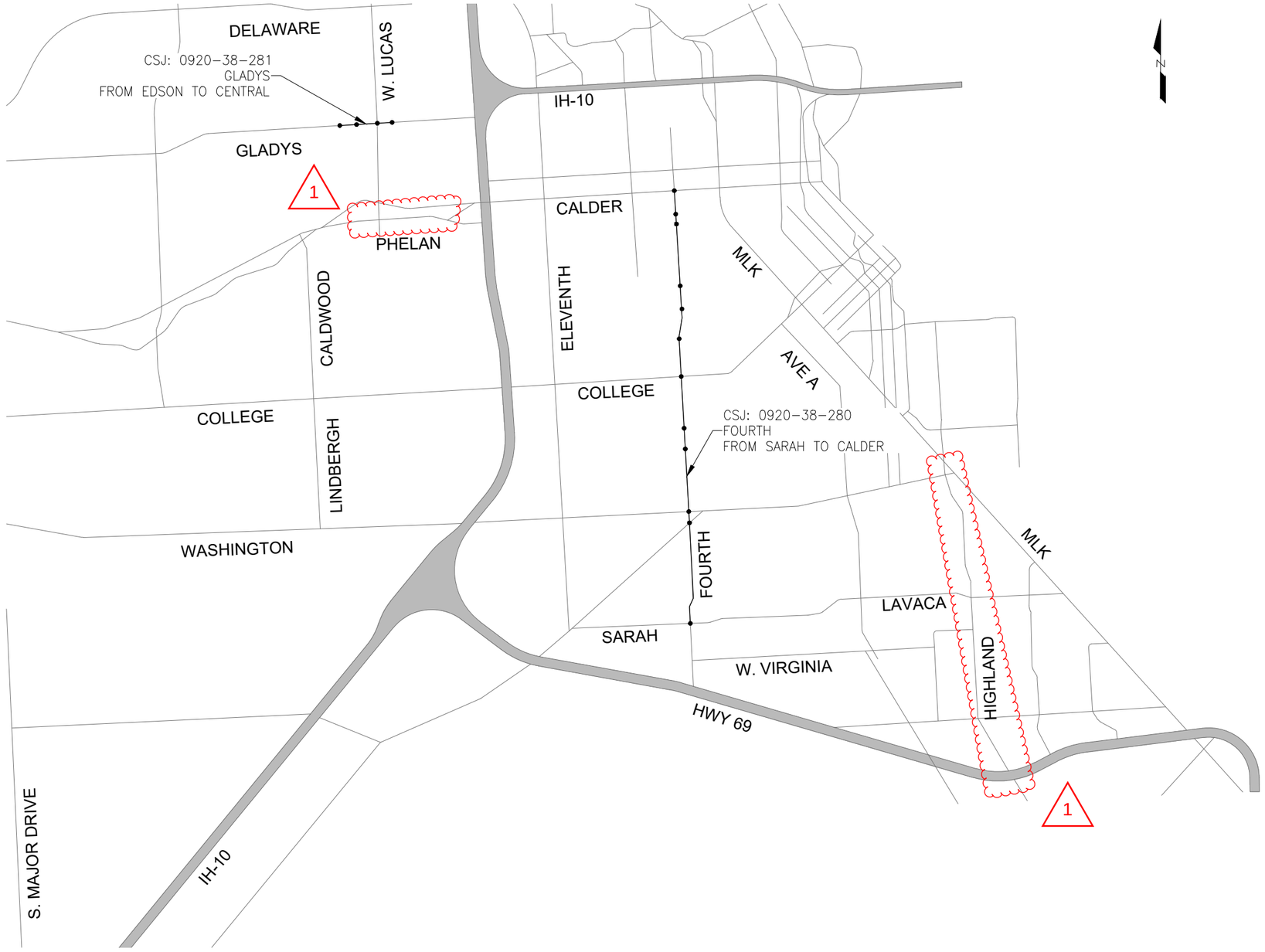
Texas Department of Transportation

2020 HSIP INTERCONNECT SIGNALS
JEFFERSON COUNTY

INDEX OF SHEETS

FED. RD. DIV. No.	STATE AID PROJECT NO.		SHEET NO.
N/A	SEE TITLE SHEET		2
STATE	DIST.	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
0920	38	280, Etc.	N/A

1 REVISED 6/23/22



1 06-23-2022 REVISED

STATE OF TEXAS
BRANDON G. BELAIRE
138396
LICENSED
PROFESSIONAL ENGINEER

Brandon Belaire
6-23-2022

BEAUMONT Public Works

Texas Department of Transportation

2020 HSIP INTERCONNECT SIGNALS
JEFFERSON COUNTY

LOCATION MAP

FED. RD. DIV. No.	STATE AID PROJECT NO.		SHEET NO.
N/A	SEE TITLE SHEET		3
STATE	DIST.	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
0920	38	280, Etc.	N/A

Project Number: **Control: 0920-38-280, Etc.**
County: Jefferson
Highway: N/A

Item 8: Prosecution and Progress

The Contractor will submit a proposed schedule of work using a bar chart. Compute and charge working days in accordance with Article 8.3.1.4 Standard Workweek. This schedule will be submitted prior to setting project barricades and prior to commencing any work. The Engineer will require monthly updates of the schedule.

Adjoining projects may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects, if applicable. Manage construction of all phases to minimize disruption to traffic.

The Engineer will suspend time charges after completion of all work and removal of the barricades. The department will grant final acceptance when all performance periods are complete.

Item 502: Barricades, Signs and Traffic Handling

For overhead work above a travel lane, the lane will be closed.

Ensure flashing beacon lights are installed on all vehicles and/or equipment that are used during any construction phase of this project.

Remove all traffic control devices from the roadway, off of the right of way, when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or right of way when not in use or stored in other approved areas on the project. Cover any construction signs that are not in effect and are installed in a fashion that will not allow them to be removed from the right of way easily.

Construct all work zone signs, sign supports, and barricades from material other than wood unless approved otherwise. Metal posts, if used, are to be galvanized. Aluminum signs, if used, will meet the following minimum thickness requirements:

Square Feet	Minimum Thickness
Less than 7.5	0.080 inches
7.5 to 15	0.100 inches
Greater than 15	0.125 inches

The traffic control plan for this Contract consists of the installation and maintenance of warning signs and other traffic control devices shown on the plans; specification data, which may be included in the general notes; applicable provisions of the Texas Manual on Uniform Traffic Control Devices (TMUTCD); traffic control plan sheets included on the plans; standard BC sheets; Compliant Work Zone Traffic Control Device List, and Item 502 of the Standard Specifications.

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Project Number: **Control: 0920-38-280, Etc.**
County: Jefferson
Highway: N/A

High-visibility safety apparel is required for workers in accordance with the General Notes on current BC standards.

Place and maintain signs, channelizing devices, and flaggers to direct and route traffic at any location and for any period of time as may be required or directed.

When operations require a lane closure, provide cones, vertical panels, drums, signs, flaggers, and flashing arrow panels as necessary to route traffic around the closed lane as shown on the plans and as directed. Lane closures will be limited to one specific lane as directed.

Unless otherwise approved, lane closures for minor or major construction operations will not be allowed on Good Friday, Easter weekend, Memorial Day, Memorial Day weekend, July 4th, Labor Day, Labor Day weekend, Thanksgiving Day thru Sunday, Christmas Eve, Christmas Day, New Year's Eve, New Year's Day, or on any other high traffic days or holidays as determined.

Maintain existing roadside signs within this project's limits during this Contract. In order to accommodate the grading or other operations, temporarily relocate these signs in accordance with the TMUTCD as directed. This work will not be paid for directly but will be subsidiary to Item 502.

Provide a truck-mounted attenuator (TMA) on the trailing vehicle as shown on the appropriate traffic control plan sheets. Provide a letter certifying that all TMA's used on this project meet the NCHRP 350 requirements.

Regulate all construction activities and equipment to minimize inconvenience to the traveling public. At points where it is necessary for trucks to stop, load, or unload, provide warning signs and flaggers to protect the traveling public.

The pavement will be entirely open to traffic each night. Remove or clearly barricade all material stockpiles, equipment left overnight, or any obstruction within 30 ft. of a travel-way as approved.

The Contractor Force Account "Safety Contingency" is intended to be used for work zone enhancements that could not be foreseen in the project planning and design stage for the purpose of improving the effectiveness of the Traffic Control Plan. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid Items if it does not slow the implementation of enhancement.

All work required by these general notes, except as provided for by Item 502, will not be paid for directly, but will be subsidiary to Item 502 unless otherwise shown on the plans.

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County: Jefferson
Highway: N/A

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

The Contractor Force Account "SW3P Contingency" that has been established for this project is intended to be utilized in the event that such controls become necessary. The SW3P for this project will consist of the use of any temporary erosion control measures deemed necessary by the Engineer and as specified under this Item. This work will be paid for in accordance with Article 4.4., "Changes in the Work."

Items 618, 620, & 624: Conduit, Conductors, Ground Box

Use materials from the pre-qualified material producers list as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list.
See http://www.dot.state.tx.us/business/doing_business/product_evaluation/default.htm for list of pre-qualified manufacturers. Category is "Roadway Illumination and Electrical Supplies."

The location of the conduits, conductors, and ground boxes are diagrammatic only and may be shifted by the Engineer to accommodate field conditions.

Do not use non-certified persons to perform electrical work. See Item 7.18 "Electrical Requirements" for additional details.

Item 618: Conduit

PVC Conduit systems that snap or lock together without glue and that are UL listed to be used for bored PVC electrical applications will be allowed for PVC Schedule 40.

Place conduit under existing roadways and/or driveways as directed by the Engineer and in accordance with Item 476.

Ensure open trenches and excavations are filled at the end of each workday.

Use non-metallic pull rope to install conductors in PVC conduit.

Leave a minimum length of 2 feet for each conductor cable in each ground box and in each pole.

With approval, bend all PVC conduits in accordance with NEC-352.24.

Refer to plans and specifications for type of conduit. Waterproof and tighten all couplings and connections. Bring all proposed and existing conduit into a ground box and 'elbow' it unless otherwise shown on the plans. Provide a bushing to protect the wire from abrasion when a conduit run terminates.

Install conduit in an area not exceeding 2 ft. in any direction from a straight line with the depth of the conduit at least 2 ft. unless otherwise shown on the plans. Installation of the conduit by jacking

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Highway: N/A

or boring method will be at a depth of at least 1 ft. below the bottom of the base material of the roadway. Evidence of damage to the roadway during the jacking or boring operation will be enough grounds to stop the method being used.

Install conduit on a 2 in. sand cushion and backfill with at least 6 in. of sand. Backfill the remainder of the trench with flexible base, soil or two-sack concrete as required by the location of the conduit or as directed.

Consider all conduit elbows and rigid metal extensions required to be installed on PVC conduit systems subsidiary.

Install a non-metallic pull rope in conduit runs, which are longer than 50 ft. Installed pull ropes in conduit are for future use and will be capped using standard weather tight conduit caps as directed. Consider this work subsidiary to the pertinent Items.

Install a continuous bare or green insulated copper wire No. 8 AWG or larger in every conduit throughout the electrical system which are in conformance with the Electrical Detail Standard Sheets and the latest edition of the National Electric Code.

Placement of conduit under the existing pavement using the open trench method will not be allowed without prior approval.
Consider all fittings, brackets, and junction boxes necessary to complete the installations subsidiary to the pertinent Items.

Furnish couplings and connections that are tight and waterproof. All conduit will be brought into a ground or junction box and elbowed unless otherwise shown on the plans.

The Contractor may, at his option, substitute high-density polyethylene (HDPE) conduit meeting the specifications of Item 618 for all bores requiring PVC schedule 40 conduit and, when approved by the Engineer, may substitute HDPE for schedule 80 bored conduit. HDPE will be the same size as the PVC conduit shown on the plans. HDPE will be terminated with UL listed fittings. HDPE may be threaded and used with threaded PVC connectors or couplings. HDPE will be extended through the bore in one continuous piece and will be coupled to RMC elbows or to PVC conduit at the bore pits prior to entering ground boxes (if ground boxes are required by the plans). HDPE will not contain conductors during installation in this manner. No additional compensation will be paid to the Contractor when HDPE is substituted for this purpose.

When using PVC, duct cable, and HDPE conduit 1 in. and larger, provide a PVC elbow in place of the galvanized rigid metal elbow required by the Electrical Detail standards. Ensure the PVC elbow is of the same schedule rating as the conduit to which it is connected. Ensure only a flat, high tensile strength polyester fiber pull tape is used for pulling conductors through the PVC conduit system.

Exact location of boring and installation of conduit shall be per the Engineer's field direction.

Project Number:
County: Jefferson
Highway: N/A

Control: 0920-38-280, Etc.

Item 620: Electrical Conductors

Identify the conductors as shown on the Electrical Details Standard Sheets when two or more conductors are present in one conduit or enclosure. Use an identification tag with two plastic straps. Each tag will indicate circuit number, letter, or other identification as shown on the plans. Insulated conductors are to have solid color insulation of black and white.

Bond grounding conductors, which share the same conduit, junction box or structures, together at every accessible point in accordance with the Electrical Detail Standard Sheets and the latest edition of the National Electric Code.

All wiring will be in accordance with the National Electric Code and the appropriate Department standard sheets.

Existing conductors in any existing conduit to be reused will be removed and disposed of by the Contractor. This work will be subsidiary to this Item.

Exact location for installation of electrical conductors shall be per the Engineer's field direction.

Item 624: Ground Boxes

Type C ground boxes shall be installed a minimum of 5 feet from back of curb or edge of the roadway, unless otherwise directed by the Engineer.

Class A concrete will be considered miscellaneous. All ground boxes will be precast polymer concrete of the size and type specified on the plans.

Exact location for installation of ground boxes shall be per the Engineer's field direction.

Item 680: Highway Traffic Signals Upgrades

Requirements for this Item include the following work, all of which are subsidiary to this Item:

Provide submittal literature for all traffic signal equipment before installation.

Provide a new controller (Trafficware Series 980 ATC Type II Controller), 980 ATC faceplate upgrade, and Trafficware controller cabinet (Specification #7006-3055E-WBC7010000) at the locations specified in the plans. Provide detector panel toggle switches that additionally permit the user to disconnect the detector. Provide new MMU with Ethernet port.

Provide Communication cards per the following requirements:
Dual channel VIVIDS Card with Ethernet Output Part Number ITSP-V200E

Project Number:
County: Jefferson
Highway: N/A

Control: 0920-38-280, Etc.

Install the controller cabinet in an orientation as directed by the Engineer.

Connect all field wiring to the controller assembly. The City will assist in determining how the detection cables are to be connected, and will also program the controller for operation, hook up the malfunction management unit (MMU) or conflict monitor, detector units, and other equipment, and turn on the controller. Have a qualified technician and a representative from the controller supplier on the project site to place the traffic signals in operation.

Have a qualified technician on the project site to place the traffic signal in operation.

Use qualified personnel to respond to and diagnose all trouble calls during the thirty-day test period. Repair any malfunction to Contractor-supplied signal equipment. Provide to the Engineer a local telephone number, not subject to frequent changes and available on a 24-hour basis, for reporting trouble calls. Response time to reported calls must be less than 2 hours. Make appropriate repairs within 24 hours. Place a logbook in the controller cabinet and keep a record of each trouble call reported. Notify the Engineer of each trouble call. Do not clear the error log in the conflict monitor or MMU during the thirty-day test period without approval.

When the work required by this contract has been satisfactorily completed on any individual or inter-connected system of signalized intersections, final clean-up has been performed, and the traffic signal equipment supplied has operated continuously and satisfactorily for at least 30 days, release from further maintenance on that particular intersection is authorized. This partial acceptance, made in writing, does not void or alter any of the terms of the contract.

Prevent any damage to property owner's poles, fences, shrubs, mailboxes, etc. Protect all underground and overhead utilities and repair any damage. Provide access to all driveways during construction.

The concrete foundation for the controller as shown on TS-CF-21 is diagrammatic and the dimensions will be adjusted in the field to fit existing conditions.

Item 6293: Adaptive Traffic Control System

Provide an Adaptive Traffic Control System per the following requirements:
Per Intersection SynchroGreen License Part Number 97500-0030
Per intersection SynchroGreen Configuration/Integration Part Number 97500-0005

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Project Number: **Control: 0920-38-280, Etc.**
County: Jefferson
Highway: N/A

Item 6306: VIVIDS Camera Assembly (its plus) and VIVIDS Cabling

Provide VIVIDS Camera Assemblies per the following requirements:
ITS Plus, Pole Mount, 12-24 VDC, Coaxial Communications Part Number ITSP-PM24C
Micro Video Monitor Part Number ITSP-MVM

Exact location for installation of cameras and cabling shall be per the Engineer's field direction.

Item 6320: Cellular Modem

This is for furnishing and installation of Cellular Modems per the following requirements:
Panorama LPAM-BC3G - antenna
Mfg. Part#: LPAM-BC3G-26-1SP
UNSPSC: 43221723
Contract: TIPS Technology Solutions Products and Services (200105)
Cradlepoint 3-Year NetCloud Essentials for Mobile Router
Mfg. Part#: TC03-0900120B-NN
Electronic distribution - NO MEDIA
Contract: TXDIR - CradlePoint Emergency Prep DIR-TSO-4234
(DIR-TSO-4234)

Provide only Cat 6 Ethernet cables. Cables shall be factory terminated and are not to be cut or terminated by the contractor. Excess cable shall be neatly coiled and secured with ties.

Exact location for installation of cellular modem shall be per the Engineer's field direction.

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1 06-23-2022 REVISED

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0920-38-280 **DISTRICT** Beaumont **COUNTY** Jefferson
HIGHWAY 4TH ST, GLADYS

				CONTROL SECTION JOB	**0920-38-280**		**0920-38-281**		TOTAL EST.	TOTAL FINAL
				PROJECT ID	**A00179788**		**A00179822**			
				COUNTY	**Jefferson**		**Jefferson**			
				HIGHWAY	**4TH ST**		**GLADYS**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**		EST.	FINAL	EST.	FINAL		
	500-6001	MOBILIZATION	LS		0.500		0.500		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO		3.500		1.000		4.500	
	618-6021	CONDT (PVC) (SCH 40) (1 1/2")	LF		1,660.000				1,660.000	
	624-6007	GROUND BOX TY C (162911)	EA		33.000				33.000	
	680-6011	INSTALL HWY TRF SIG (UPGRADE)	EA		29.000		8.000		37.000	
	690-6036	INSTALL OF FND FOR GROUND MNT CABINETS	EA		1.000				1.000	
	690-6039	REPLACE OF CONTROL CABINET(GRND MNT)	EA		1.000				1.000	
	690-6040	INSTALL OF CONTROL CABINET(GRND MNT)	EA		1.000				1.000	
	690-6041	REMOVAL OF CONTROL CABINET(POLE MNT)	EA		1.000				1.000	
	6293-6002	ATSC (TY 2)	EA		12.000		4.000		16.000	
	6306-6002	VIVDS CAM ASSY FXD LNS	EA		34.000		6.000		40.000	
	6306-6007	VIVDS CABLING	LF		3,920.000		590.000		4,510.000	
	6320-6002	INSTALL OF CELLULAR MODEM	EA		12.000		4.000		16.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS		1.000				1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS		1.000				1.000	

1 REVISED 7/22/2022

BID ITEM	DESC CODE	DESCRIPTION	Unit	CSJ 0920-38-280 Fourth Street	CSJ 0920-38-281 Gladys Avenue	Total
500	6001	MOBILIZATION	LS	0.50	0.50	1
502	6001	BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	3.5	1.0	4.5
618	6021	CONDT (PVC) (SCH 40) (1 1/2")	LF	1,660	0	1,660
624	6007	GROUND BOX TY C	EA	33	0	33
680	6011	INSTALL HIGHWAY TRAFFIC SIGNALS (UPGRADE)	EA	29	8	37
*	*	*COMMS CARD*	*EA*	*19*	*4*	*23*
*	*	*CONTROLLER*	*EA*	*8*	*3*	*11*
*	*	*CONTROLLER FACEPLATE UPGRADE*	*EA*	*2*	*1*	*3*
690	6036	INSTALL OF FND FOR GROUND MNT CABINETS	LF	1	0	1
690	6039	REPLACE OF CONTROLLER CABINET (GRND MNT)	EA	1	0	1
690	6040	INSTALL OF CONTROL CABINET (GRND MNT)	EA	1	0	1
690	6041	REMOVAL OF CONTROL CABINET (POLE MNT)	EA	1	0	1
6293	6002	ATSC (TY 2)	EA	12	4	16
6306	6002	VIVDS CAM ASSY FXD LNS	EA	34	6	40
6306	6007	VIVDS CABLING	LF	3,920	590	4,510
6320	6002	INSTALL OF CELLULAR MODEM	EA	12	4	16
*	SUBSIDIARY TO ITEM 680, FOR CONTRACTOR'S INFORMATION ONLY					

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1 06-23-2022 REVISED

STATE OF TEXAS
BRANDON G. BELAIRE
138396
LICENSED
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Brandon Belaire
7-05-2022

BEAUMONT
Public Works

Texas Department of Transportation

2020 HSIP INTERCONNECT SIGNALS
JEFFERSON COUNTY

QUANTITY SUMMARY

FED. RD. DIV. No.	STATE AID PROJECT NO.		SHEET NO.
N/A	SEE TITLE SHEET		10
STATE	DIST.	COUNTY	
TEXAS	BMT	JEFFERSON	
CONTROL	SECTION	JOB	HIGHWAY NO.
0920	38	280, Etc.	N/A