

ADDENDUM NO. 3

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

PROJECT NAME: **Fredericksburg Road Congestion Mitigation**

DATE: March 30, 2011

ADDENDUM NO.3

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

CIMS PROJECT NO.: **40-00016**

PLANS:

- Delete the existing Sheet 4 - 7 of 234 Traffic Signal Summary and replace with the new version dated 03-30-11 (attached).
- Delete the existing Sheet 229 of 234 4" PVC Multiduct Conduit (2-Way System) and replace with the new version dated 03-25-11 (attached).

SPECIFICATIONS:

Formal Invitation for Bid and Contract:

- Delete the existing 025 Unit Pricing Form and replaced with the new version dated 03-30-11 (attached).
- Delete the existing page "GSSP-3" of the Governing Specifications, Special Specifications, and Special Provisions and replaced with the new version (attached).

Special Provisions:

- Delete paragraph 5 on page SP-2 (under Item 624). The contractor shall furnish all ground boxes for this project.
- Delete the special provisions to Item 682 Vehicle and Pedestrian Signal Heads. The Contractor will be required to provide both vehicular and pedestrian signal heads and mounting brackets and back plates for this project.

ANSWERS TO QUESTIONS RECEIVED BY CITY DURING THE PRE-SUBMITTAL CONFERENCE on March 23, 2011 ARE ANSWERED AS FOLLOWS:

Q1. Should Item 110 be included?

A1. Yes. Please refer to the revised 025 form (attached).

Q2. Should bid items for Mobilization and Insurance and Bonding be included?

A2. Yes. Please refer to the revised 025 form (attached).

Q3. Should there be pay items for the installation of the traffic signal poles?

A3. Include in Costs for Item 680.

Q4. Does SAWS know what size the replacement gate valves will be?

A4. Yes. The number and size of the water valves are five (5) of 8" gate valve, two (2) of 12" gate valve and three (3) of 16' gate valve under Item 828. Also, add two (2) of "Locate and Adjusting Existing Manholes" under Item 851A. Please refer to the revised 025 form (attached).

Q5. What are the depths of flowable fill and where are these depths located?

A5. Sheet 229 of 234 shows the standard depth of flowable fill when not under pavement. There is a note with an asterisk that shows the depth of flowable fill when used under the pavement. An asterisk has been added to the Modified Trench Detail on that sheet (attached).

Q6. Should Field Office be included in the Bid Tabs?

A6. No. Please refer to the revised 025 form (attached). Although the Field Office is not a pay item, it will be required for this project. See Spec #526.

Q7. What items will the City provide?

A7. The City is providing the following Items: Traffic Signal Cabinets with Controllers, Wireless Mesh Communication Equipment, Pedestrian Push Button Pole Assemblies, Traffic Signal Pole Assemblies and Pedestal Pole Assemblies.

Q8. How are the 24" drill shaft foundations for the COSA furnished pedestal poles to be paid?

A7. Include the costs in Item 680.

Q9. Can you provide a detail on the COSA furnished pedestrian push button posts and its foundations?

A9. Foundations for pedestrian push button posts are standard type 24-A as shown in the plans. Include the costs for the foundation in Item 680.

Q10. Regarding the duct bank trenching in the outside lane of Fred Rd, instead of opening the lane to traffic at the end of each work day which is a very time consuming task to install & asphalt-down the steel plates and clean-up spoils, would the City allow a reasonable working area of the roadway to remain closed at the end of each work day? Plates would still be used to avoid pedestrian incidents; however, we wouldn't have to make the lane traffic ready every day. This will assist greatly in production and cut down on the number of days required to get the trench in. As the trenching progresses up the road, the closed-road working area will progress along with it leaving completed trench & open roadway behind it.

A10. Bid the plans as shown.

Q11. Under CONSTRUCTION NOTES on each proposed intersection plan sheet, Note 1 states that "the contractor shall supply an additional support equipment for the project: one (1) VIVDS processor unit and one (1) VIVDS camera. Support equipment shall...". The pay quantities

currently established provide for this spare equipment for each intersection which explains why the count of cameras and processors is so high. Just checking to make sure that's what you really want. See example plan sheets 72 and 75.

A11. Bid the plans as shown.

End of Addendum

****NOTE ADDENDUM ACKNOWLEDGEMENT FORM IS REQUIRED TO BE RETURNED WITH THE BID PACKAGE****

CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
CONTRACT SERVICES DIVISION

RECEIPT OF ADDENDUM NUMBER(S) 3 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF: **Fredericksburg Road Congestion Mitigation 40-00016**

FOR WHICH BIDS WILL BE OPENED ON **TUESDAY, APRIL 5, AT 2:00 PM**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

ALT. NO.	ITEM NO.	DESC CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				STREET/ROADWAY CONSTRUCTION BASE BID					
	100.1			MOBILIZATION	LS	1			
	100.2			INSURANCE AND BOND	LS	1			
	101.1			PREPARING RIGHT OF WAY	LS	1			
	103			REMOVING CONCRETE CURB	LF	1272			
	103			REMOVING SIDEWALKS & DRIVEWAYS	SF	5533			
	103			REMOVING MISCELLANEOUS CONCRETE	SF	282			
	110.2.1			TRANSPORTATION OF SOILS	CY	12			
	110.2.2			LANDFILL DISPOSAL OF SOILS	CY	12			
	110.5.1			DEVELOPMENT AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	EA	1			
	204.1			ONE COURSE SURFACE TREATMENT	SY	20032			
	205.3			HOT MIX ASPHALTIC PAVEMENT TYPE C (2")	SY	20032			
	208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	SY	20032			
	307			ITS TYPE A MANHOLE	EA	23			
	308.1		2003	DRILL SHAFT (TRF SIG POLE) (30' - A)	LF	216			
	308.1		2004	DRILL SHAFT (TRF SIG POLE) (36' - A)	LF	224			
	308.1		2006	DRILL SHAFT (TRF SIG POLE) (48' - A)	LF	440			
	413			FLOWABLE FILL (LOW STRENGTH)	CY	1406			
	500			CONCRETE CURB	LF	1272			
	502			CONCRETE SIDEWALKS - CONVENTIONAL FORM	SY	1961			
	503			PORTLAND CEMENT CONCRETE DRIVE - COMM.	SY	309			
	504			CONCRETE MEDIAN	SY	216			
	504			CONCRETE RIPRAP (4")	SY	28			
	506			CONCRETE RETAIN WALLS - COMBO TYPE	CY	9			
	511			REPLACE WITH PORTLAND CONCRETE PAVE (6")	SY	7			
	511			REPLACE WITH HOT MIX ACP TY. C (2")	SY	2783			
	522			SIDEWALK PIPE RAIL (REMOVE & RESET)	LF	145			
	530			BARRICADES, SIGNS AND TRAFFIC HOLDING	MO	10			
	535.1			4" WIDE YELLOW LINE	LF	1452			
	535.2			4" WIDE WHITE LINE	LF	812			
	535.4			8" WIDE WHITE LINE	LF	2769			
	535.7			24" WIDE WHITE LINE	LF	6546			
	535.8			RIGHT WHITE ARROW	EA	2			
	535.9			LEFT WHITE ARROW	EA	24			
	535.10			COMBINATION THRU/RIGHT WHITE ARROW	EA	1			
	535.12			WORD "ONLY"	EA	24			
	537.6			PAVEMENT MARKER TYPE I-C	EA	181			
	537.8			PAVEMENT MARKER TYPE II-A-A	EA	123			
	540			SANDBAGS FOR EROSION CONTROL (8")	LF	2000			
	540			TEMPORARY SEDIMENT-CONTROL FENCE	LF	2000			
	532			REMOVING & RELOCATING IRRIGATION SYSTEMS	LF	10			
662			2113	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	444			
662			2014	WK ZN PAV MRK SHT TERM (TAB) TY Y	EA	96			
677			2007	ELIM EXT PAV MARK & MRKS (24")	LF	184			
677			2008	ELIM EXT PAV MARK & MRKS (ARROWS)	EA	2			
618				CONDUIT (4"MULTIDUCT)(BORE)	LF	515			
618				CONDUIT (4"MULTIDUCT)	LF	18349			

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	618.1		2018	CONDUIT (2 INCH/PVC SCHEDULE 40) (TRENCH)	LF	2091			
	618.2		2022	CONDUIT (3 INCH/PVC SCHEDULE 40) (TRENCH)	LF	3744			
	618.5		2023	CONDUIT (3 INCH/PVC SCHEDULE 40) (BORE)	LF	9300			
	620.2		2011	ELEC CONDUCTOR (NO.8) (BARE)	LF	15788			
	620.3		2010	ELEC CONDUCTOR (NO.6) (INSULATED)	LF	1364			
	624			GROUND BOX TYPE 1	EA	7			
	624.1		2007	GROUND BOX TYPE A (122311)	EA	63			
	624.4		2015	GROUND BOX TYPE D (162922)	EA	14			
	624.5		2008	GROUND BOX TYPE A (122311) WITH APRON	EA	21			
	624.8		2014	GROUND BOX TYPE D (162922) WITH APRON	EA	9			
	628.1			ELECTRICAL SERVICE TYPE D	EA	20			
	628.2		2158	REMOVAL ELECTRICAL SERVICE	EA	20			
	633.1			BATTERY BACKUP SYSTEM	EA	21			
	655.1			TYPE 332 CONTROLLER FOUNDATION	EA	14			
	680.2		2003	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	21			
	682.1		2001	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (3 SEC)	EA	151			
	682.2		2002	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (4 SEC)	EA	6			
	682.3		2003	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (5 SEC)	EA	6			
	683.1		2001	LED COUNTDOWN PEDESTRIAN SIGNAL MODULE	EA	146			
	684.1		2035	TRAFFIC SIGNAL CABLES (TYPE A)/(1/4 AWG)(CONDUCTOR NO. 9)	EA	43619			
	684.1		2050	TRAFFIC SIGNAL CABLES (TYPE A)/(1/4 AWG)(CONDUCTOR NO. 4)	LF	14079			
	688.3		2001	AUDIBLE PEDESTRIAN SIGNAL UNITS (2 INCH PUSH BUTTONS)	EA	146			
	693.1		2003	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 6')	EA	35			
	693.1		2006	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 8')	EA	43			
	694.1		2001	VIVDS PROCESSOR UNIT	EA	130			
	694.2		2002	VIVDS CAMERA ASSEMBLY	EA	130			
	694.4		2003	VIVDS SET-UP SYSTEM	EA	21			
	694.6		2003	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	20919			
	695.2			EMERGENCY PREEMPTION PHASE SELECTOR (TWO CHANNEL)	EA	21			
	695.3			EMERGENCY PREEMPTION DETECTOR	EA	68			
	695.4			EMERGENCY PREEMPTION DETECTOR CABLE	LF	9517			
	802.2			LEVEL II PRUNING	LS	1			
	6007		2001	REMOVING TRAFFIC SIGNAL	EA	16			

SAWS WATER BASE BID

828				8" GATE VALVE WITH VALVE BOX COMPLETE	EA	5			
828				12" GATE VALVE WITH VALVE BOX COMPLETE	EA	2			
828				16" GATE VALVE WITH VALVE BOX COMPLETE	EA	3			
831A				LOCATE AND ADJUSTING EXISTING MANHOLES	EA	2			

COSA BASE BID:

SAWS WATER BASE BID:

TOTAL BID AMOUNT:

I certify that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out. Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

- 688 - PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS
- 693 - INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLIES
- 694 - VIDEO IMAGING VEHICLE DETECTION SYSTEM
- 695 - EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM
- 700 - COST LOADED PROJECT SCHEDULES
- 801 - TREE AND LANDSCAPE PROTECTION
- 802 - TREE PRUNING, SOIL AMENDING, AND FERTILIZATION
- 828 - GATE VALVES
- 851A - LOCATE AND ADJUSTING EXISTING MANHOLES
- 1000 - WEB PORTAL

SPECIAL SPECIFICATIONS FOR CONSTRUCTION

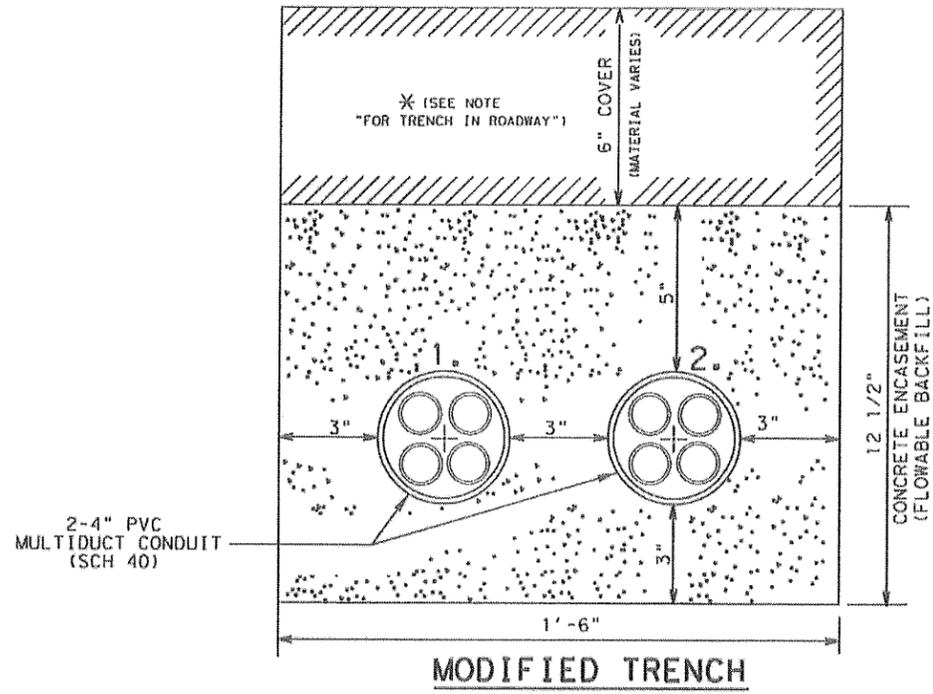
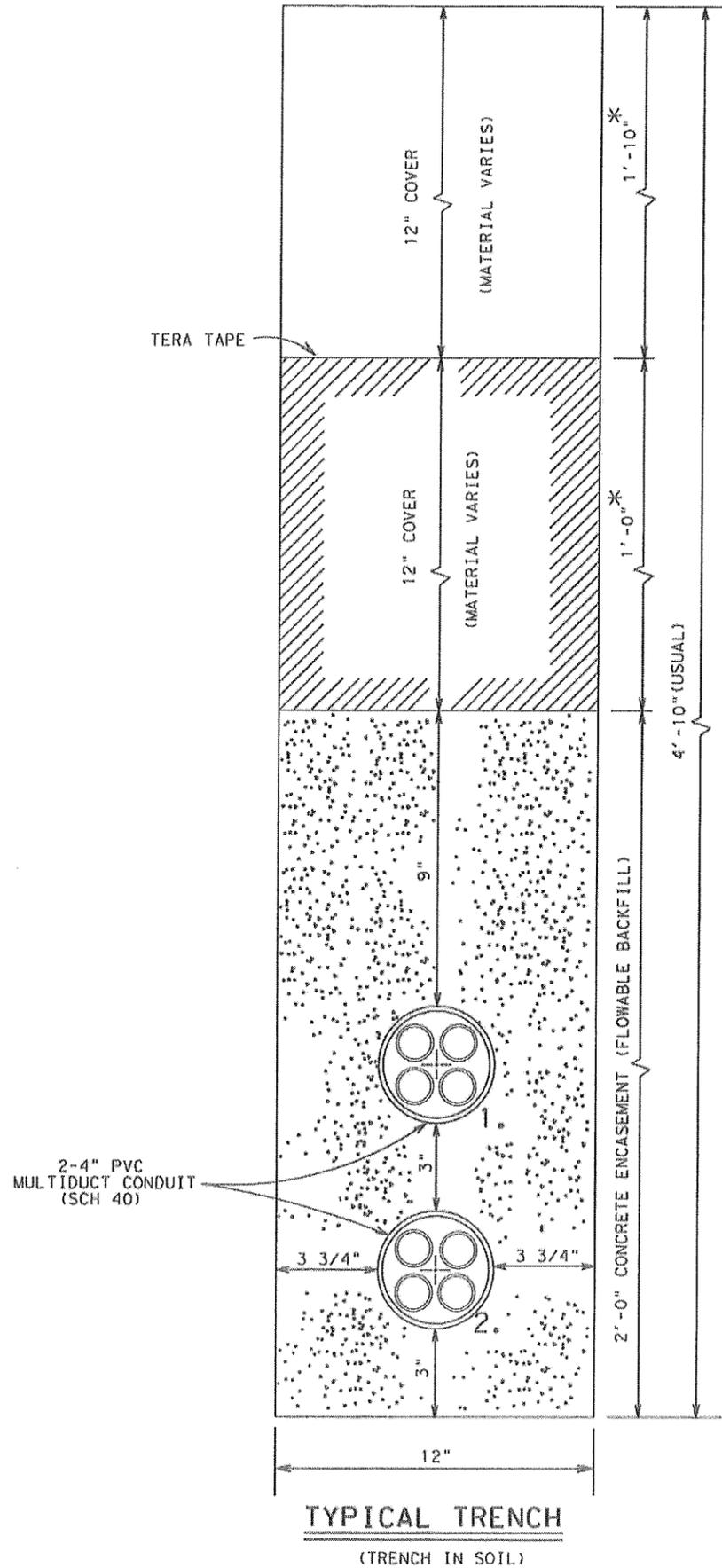
- 316 - SURFACE TREATMENTS
- 662 - WORK ZONE PAVEMENT MARKINGS
- 6007 - REMOVE TRAFFIC SIGNALS
- SPL-1 - MULTI-DUCT CONDUIT SYSTEM
- SPL-2 - REMOVAL OF CONTAMINATED SOILS

SPECIAL DETAILS AND NOTES FOR CONSTRUCTION

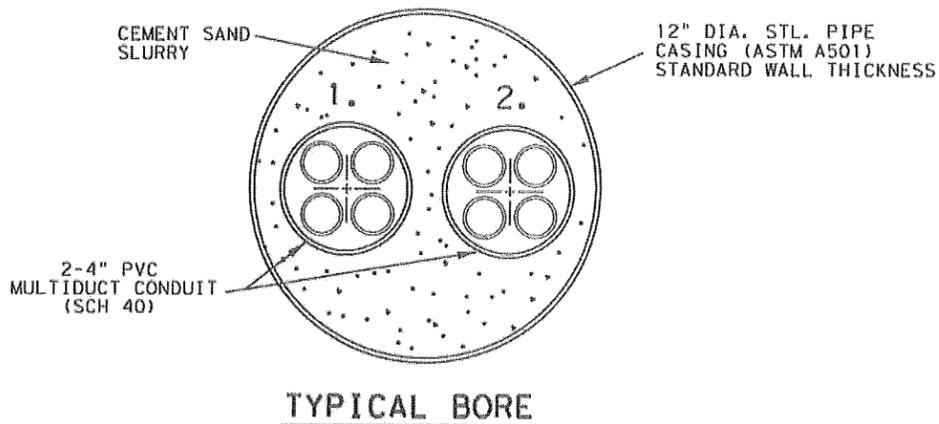
GENERAL NOTES

TRAFFIC NOTES AND SPECIAL CONDITIONS

Some materials, which have been identified in the special provisions and the bid proposal estimate, will be provided by the City of San Antonio. The Contractor shall be responsible for providing all other material required and the installation of all equipment and materials.



SHALL ONLY BE USED WHEN APPROVED BY THE ENGINEER DUE TO UTILITY CONFLICT



FOR TRENCH IN ROADWAY

* CONTRACTOR SHALL CONCRETE ENCASE FULL DEPTH (WITH FLOWABLE BACKFILL) ANY TRENCHES THROUGH MAINLANES, SHOULDERS, FRONTAGE ROADS, INTERSECTIONS, OR RAMPS. TOP OF CONCRETE SHALL BE 2" BELOW FINISHED GRADE OR AS DIRECTED BY THE ENGINEER. 2" OF ASPHALT SHALL BE PLACED ON TOP OF CONCRETE ENCASEMENT TO FINISHED GRADE. ANY ADDITIONAL CONCRETE SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

NOTES:

1. SPECIAL ATTENTION SHOULD BE MADE TO THE EXISTING UTILITIES. THE CONTRACTOR MAY HAVE TO VARY THE DEPTH OF THE TRENCH IN ORDER TO PASS OVER/UNDER ANY EXISTING UTILITY.
2. A TEMPLATE SHALL BE PROVIDED AT 10' (FOOT) INTERVALS TO INSURE THAT THE CONDUIT REMAINS IN ITS ORIGINAL POSITION AS APPROVED BY THE ENGINEER.
3. NO DIRECT PAYMENT SHALL BE MADE FOR THE TEMPLATES BUT THESE SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
4. A 10' (FOOT) TRANSITION SHALL BE USED TO GO FROM A TYPICAL TRENCH TO A MODIFIED TRENCH.
5. SEE "ED" SHEETS FOR ADDITIONAL DETAILS AND NOTES.
6. THE LOCATION OF UTILITIES, EITHER UNDERGROUND OR OVERHEAD, SHALL BE VERIFIED BY THE CONTRACTOR BEFORE BEGINNING CONSTRUCTION OPERATIONS.
7. FOR TYPICAL BORE, A 2' (FOOT) PLUG OF CEMENT SAND SLURRY SHALL BE INJECTED INTO EACH END OF STEEL PIPE CASING TO MAKE IT WATERTIGHT. CASING SHALL BE CONSIDERED SUBSIDIARY TO THE MULTIDUCT.
8. INSTALL A SINGLE 1/C #14 INSULATED WIRE IN CONDUIT RUN. (TRACER WIRE FOR LOCATING UNDERGROUND CONDUIT)



Carol Greiner Luscher, PE
3/25/2011

Lockwood, Andrews & Newnam, Inc. 10 No. 2614

LAN Lockwood, Andrews & Newnam, Inc.
A LEO A. DALY COMPANY

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

FREDERICKSBURG ROAD BOND PROJECT
4" PVC MULTIDUCT CONDUIT
[2-WAY SYSTEM]

100% SUBMITTAL PROJECT NO.: 130-10185-000 DATE: 2/17/2011
DRWN. BY: CM DSGN. BY: CM CHKD. BY: CL SHEET NO: 229OF 234

TRAFFIC SIGNALS - MATERIALS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR			FREDERICKSBURG @ KENS 5	FREDERICKSBURG @ CALLAGHAN	FREDERICKSBURG @ MAGIC	FREDERICKSBURG @ LAKE RIDGE	FREDERICKSBURG @ WOODLAKE	SUB-TOTAL QUANTITIES
COSA BID ITEM #	DESCRIPTION	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	
100.1	MOBILIZATION	LS						
100.2	INSURANCE AND BOND	LS						
101.1	PREPARING RIGHT OF WAY	LS						
110.2.1	TRANSPORTATION OF SOILS	CY						
110.2.2	LANDFILL DISPOSAL OF SOILS	CY						
110.5.1	DEVELOPMENT AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	EA						
204.1	ONE COURSE SURFACE TREATMENT	SY	1864	2175	1130	2095	2219	9483
205.3	HOT MIX ASPHALTIC PAVEMENT TYPE C (2")	SY	1864	2175	1130	2095	2219	9483
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	SY	1864	2175	1130	2095	2219	9483
308.1	DRILL SHAFT (TRF SIG POLE) (30 - A)	LF	12		12			24
308.1	DRILL SHAFT (TRF SIG POLE) (36 - A)	LF		14				14
308.1	DRILL SHAFT (TRF SIG POLE) (36 - B)	LF						
308.1	DRILL SHAFT (TRF SIG POLE) (48 - A)	LF	44	66	44	44	44	242
530	BARRICADES, SIGNS AND TRAFFIC HOLDING	MO						
535.1	4" WIDE YELLOW LINE	LF	111	65	6	147		329
535.2	4" WIDE WHITE LINE	LF	60	110		60	120	350
535.4	8" WIDE WHITE LINE	LF	282	233	130	225	332	1202
535.7	24" WIDE WHITE LINE	LF	653	752	477	652	598	3132
535.8	RIGHT WHITE ARROW	EA						
535.9	LEFT WHITE ARROW	EA	2	2	1	2	3	10
535.10	COMBINATION THRU/RIGHT WHITE ARROW	EA						
535.12	WORD "ONLY"	EA	2	2	1	2	3	10
537.6	PAVEMENT MARKER TYPE I-C	EA	17	14	7	15	26	79
537.8	PAVEMENT MARKER TYPE II-A-A	EA	6	8	11	8		33
	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	49	56	37	51	45	238
	WK ZN PAV MRK SHT TERM (TAB) TY Y	EA	6	8	2	8		24
	ELIM EXT PAV MARK & MRKS (24")	LF						
	ELIM EXT PAV MARK & MRKS (ARROWS)	EA						
* 615.1	TRAFFIC SIGNAL CONTROLLER (TYPE 332 CABINET)	EA	1	1	1	1	1	5
618.1	CONDUIT (2 INCH/PVC SCHEDULE 40) (TRENCH)	LF	143	87	124	80	123	557
618.2	CONDUIT (3 INCH/PVC SCHEDULE 40) (TRENCH)	LF	242	123	249	154	373	1141
618.5	CONDUIT (3 INCH/PVC SCHEDULE 40) (BORE)	LF	656	729	279	502	679	2845
628.1	ELECTRICAL SERVICE TYPE D	EA	1	1	1	1	1	5
628.2	REMOVAL ELECTRICAL SERVICE	EA	1	1	1	1	1	5
620.2	ELEC CONDUCTOR (NO.8) (BARE)	LF	1078	1046	681	763	1044	4612
620.3	ELEC CONDUCTOR (NO.6) (INSULATED)	LF	34	74	58	46	52	264
624.1	GROUND BOX TYPE A (122311)	EA	4	1	2	3	2	12
624.4	GROUND BOX TYPE D (162922)	EA	1	1	2			4
624.5	GROUND BOX TYPE A (122311) WITH APRON	EA		2	1		2	6
624.8	GROUND BOX TYPE D (162922) WITH APRON	EA					2	3
633.1	BATTERY BACKUP SYSTEM	EA	1	1	1	1	1	5
655.1	TYPE 332 CONTROLLER FOUNDATION	EA	1	1	1	1	1	3
**680 SUP.	WIRELESS MESH COMMUNICATION EQUIPMENT	EA	1	1	1	1	1	5
680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	1	1	1	1	1	5
682.1	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (3 SEC)	EA	12	13	9	8	8	50
682.2	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (4 SEC)	EA						
682.3	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (5 SEC)	EA						
683.1	LED COUNTDOWN PEDESTRIAN SIGNAL MODULE	EA	8	8	6	8	8	38
684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) CONDUCTOR NO. 9)	LF	3926	3678	2406	2666	3514	16190
684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) CONDUCTOR NO. 4)	LF		929	633	822	875	3259
*	PEDESTRIAN PUSH BUTTON POLE ASSEMBLIES (STEEL) (60" HIGH)	EA	4	1	1	1	2	9
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 20')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 24')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')	EA						2
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 44')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 48')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 50')	EA			2	2	2	6
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 55')	EA		2				2
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 60')	EA		1				2
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 36'-24')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 44'-24')	EA						
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 40'-32')	EA						
* 687.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 50'-44')	EA						
* 687.1	PEDESTAL POLE ASSEMBLY	EA	2	1	1			4
688.3	AUDIBLE PEDESTRIAN SIGNAL UNITS (2 INCH PUSH BUTTONS)	EA	8	8	6	8	8	38
693.1	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 6)	EA		2	2	2	3	9
693.1	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 8)	EA		2	1	2	2	7
694.1	VIVDS PROCESSOR UNIT	EA	7	9	6	6	7	35
694.2	VIVDS CAMERA ASSEMBLY	EA	7	9	6	6	7	35
694.4	VIVDS SET-UP SYSTEM	EA	1	1	1	1	1	5
694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	1394	1799	1042	1061	1280	6576
695.2	EMERGENCY PREEMPTION PHASE SELECTOR (TWO CHANNEL)	EA	1	1	1	1	1	5
695.3	EMERGENCY PREEMPTION DETECTOR	EA	2	4	3	3	3	15
695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	523	547	472	423	504	2469
802.2	LEVEL II PRUNING	LS						
828	GATE VALVE WITH VALVE BOX COMPLETE	EA						
851A	LOCATE AND ADJUSTING EXISTING MANHOLES	EA						
6007	REMOVING TRAFFIC SIGNAL	EA						5

* ITEMS TO BE PROVIDED BY THE CITY OF SAN ANTONIO AND INSTALLED BY THE CONTRACTOR

** REFER TO SHEET 5 OF 6 FOR COMPONENTS PART NO. LISTING AND QUANTITIES.

NOTES:

THE CONTRACTOR SHALL CONTACT MR. GARY FORD, PE (CITY OF SAN ANTONIO) AT (210) 207-4540 AT LEAST 96 HOURS PRIOR TO PICKING UP CITY FURNISHED MATERIALS AND PRIOR TO CONNECTING FIELD WIRING TO CONTROLLER.



CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FREDERICKSBURG ROAD BOND PROJECT
TRAFFIC SIGNAL SUMMARY
 SHEET 2 OF 6

100 % SUBMITTAL	PROJECT NO.:	130-10185-000	DATE:	2/22/11			
DRWN. BY:	JB	DSGN. BY:	JB	CHKD. BY:	TD	SHEET NO:	OF

TRAFFIC SIGNALS - MATERIALS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR			FREDERICKSBURG @ CLUB-HILDEBRAND	HILDEBRAND @ WEST	FREDERICKSBURG @ MARY LOUISE	FREDERICKSBURG @ DONALDSON-LYNWOOD	FREDERICKSBURG @ FULTON-GRAMERCY-ZARZAMORA	FREDERICKSBURG @ BUCKEYE-CALAVERAS	SUB-TOTAL QUANTITIES	TOTAL QUANTITIES
COSA BID ITEM #	DESCRIPTION	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY		
100.1	MOBILIZATION	LS								
100.2	INSURANCE AND BOND	LS								
101.1	PREPARING RIGHT OF WAY	LS								
110.2.1	TRANSPORTATION OF SOILS	CY					12		12	12
110.2.2	LANDFILL DISPOSAL OF SOILS	CY					12		12	12
110.5.1	DEVELOPMENT AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	EA					1		1	1
204.1	ONE COURSE SURFACE TREATMENT	SY		540					540	20032
205.3	HOT MIX ASPHALTIC PAVEMENT TYPE C (2")	SY		540					540	20032
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	SY		540					540	20032
308.1	DRILL SHAFT (TRF SIG POLE) (30 - A)	LF		36	12			24	72	216
308.1	DRILL SHAFT (TRF SIG POLE) (36 - A)	LF		14				14	28	224
308.1	DRILL SHAFT (TRF SIG POLE) (36 - B)	LF								
308.1	DRILL SHAFT (TRF SIG POLE) (48 - A)	LF								440
530	BARRICADES, SIGNS AND TRAFFIC HOLDING	MO								10
535.1	4" WIDE YELLOW LINE	LF								1452
535.2	4" WIDE WHITE LINE	LF								812
535.4	8" WIDE WHITE LINE	LF								2769
535.7	24" WIDE WHITE LINE	LF		402	92				494	6546
535.8	RIGHT WHITE ARROW	EA								2
535.9	LEFT WHITE ARROW	EA								24
535.10	COMBINATION THRU/RIGHT WHITE ARROW	EA								1
535.12	WORD "ONLY"	EA								24
537.6	PAVEMENT MARKER TYPE I-C	EA								181
537.8	PAVEMENT MARKER TYPE II-A-A	EA								123
	WK ZN PAV MRK SHT TERM (TAB) TY W	EA		31					31	444
	WK ZN PAV MRK SHT TERM (TAB) TY Y	EA								96
	ELIM EXT PAV MARK & MRKS (24")	LF			22				22	184
	ELIM EXT PAV MARK & MRKS (ARROWS)	EA								2
* 615.1	TRAFFIC SIGNAL CONTROLLER (TYPE 332 CABINET)	EA							6	20
618.1	CONDUIT (2 INCH/PVC SCHEDULE 40) (TRENCH)	LF	78	68	142	33	40	49	410	2091
618.2	CONDUIT (3 INCH/PVC SCHEDULE 40) (TRENCH)	LF	54	104	119	42	185	75	579	3744
618.5	CONDUIT (3 INCH/PVC SCHEDULE 40) (BORE)	LF	484	372	390	334	331	422	2333	9300
628.1	ELECTRICAL SERVICE TYPE D	EA								6
628.2	REMOVAL ELECTRICAL SERVICE	EA								20
620.2	ELEC CONDUCTOR (NO.8) (BARE)	LF	645	577	668	434	591	669	3584	15788
620.3	ELEC CONDUCTOR (NO.6) (INSULATED)	LF	62	14	132	58	66	50	382	1364
624.1	GROUND BOX TYPE A (122311)	EA	3	4		3	6	3	19	63
624.4	GROUND BOX TYPE D (162922)	EA							4	14
624.5	GROUND BOX TYPE A (122311) WITH APRON	EA			4				5	21
624.8	GROUND BOX TYPE D (162922) WITH APRON	EA							2	9
633.1	BATTERY BACKUP SYSTEM	EA							6	21
655.1	TYPE 332 CONTROLLER FOUNDATION	EA							2	14
**680 SUP.	WIRELESS MESH COMMUNICATION EQUIPMENT	EA							6	20
680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA							6	21
682.1	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (3 SEC)	EA		6				8	14	151
682.2	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (4 SEC)	EA								6
682.3	INSTALL VEHICLE SIGNAL SECTION (12" LED) WITH BACK PLATE (5 SEC)	EA		2					2	6
683.1	LED COUNTDOWN PEDESTRIAN SIGNAL MODULE	EA	8	8	8	8	8	6	46	146
684.1	TRAFFIC SIGNAL CABLES (TYPE AX) (14 AWG) (CONDUCTOR NO. 9)	LF	512	1677	509	415	252	1620	4985	43619
684.1	TRAFFIC SIGNAL CABLES (TYPE AX) (14 AWG) (CONDUCTOR NO. 4)	LF	604	300	581	611	1367	641	4104	14079
*	PEDESTRIAN PUSH BUTTON POLE ASSEMBLIES (STEEL) (60" HIGH)	EA	4 ***	2	4 ***	2 ***	2 ***		14	37
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 20')	EA							1	1
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 24')	EA		2				1	3	8
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')	EA								3
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')	EA								5
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')	EA								9
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')	EA								2
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 44')	EA								1
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 48')	EA								1
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 50')	EA								12
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 55')	EA								5
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 60')	EA								2
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 36'-24')	EA								1
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 44'-24')	EA								1
* 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 40'-32')	EA								1
* 687.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 50'-44')	EA								1
* 687.1	PEDESTAL POLE ASSEMBLY	EA		2				3	5	21
688.3	AUDIBLE PEDESTRIAN SIGNAL UNITS (2 INCH PUSH BUTTONS)	EA	8	8	8	8	8	6	46	146
693.1	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 6)	EA	2	2	2	2	4	2	14	35
693.1	INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLY (SINGLE SIDED MAST ARM MOUNTED 8)	EA	2	1	2	2	3	2	12	43
694.1	VIVDS PROCESSOR UNIT	EA	4	5	5	5	5	5	29	130
694.2	VIVDS CAMERA ASSEMBLY	EA	4	5	5	5	5	5	29	130
694.4	VIVDS SET-UP SYSTEM	FA								21
694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	527	498	557	584	754	646	3566	20919
695.2	EMERGENCY PREEMPTION PHASE SELECTOR (TWO CHANNEL)	EA	1		1	1			6	21
695.3	EMERGENCY PREEMPTION DETECTOR	EA	4	3	3	4	5	4	23	68
695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	651	214	278	511	859	285	2798	9517
802.2	LEVEL II PRUNING	LS								1
828	GATE VALVE WITH VALVE BOX COMPLETE	EA								10
851A	LOCATE AND ADJUSTING EXISTING MANHOLES	EA								2
6007	REMOVING TRAFFIC SIGNAL	EA							2	16

* ITEMS TO BE PROVIDED BY THE CITY OF SAN ANTONIO AND INSTALLED BY THE CONTRACTOR
 ** REFER TO SHEET 6 OF 6 FOR COMPONENTS PART NO. LISTING AND QUANTITIES.
 *** POWDER COATED GREEN POLE

NOTES:
 THE CONTRACTOR SHALL CONTACT MR. GARY FORD, PE (CITY OF SAN ANTONIO) AT (210) 207-4540 AT LEAST 96 HOURS PRIOR TO PICKING UP CITY FURNISHED MATERIALS AND PRIOR TO CONNECTING FIELD WIRING TO CONTROLLER.

Lockwood, Andrews & Newnam, Inc.
 A LEAD A. DALY COMPANY

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

FREDERICKSBURG ROAD BOND PROJECT
TRAFFIC SIGNAL SUMMARY
 SHEET 4 OF 6

100% SUBMITTAL	PROJECT NO. 130-10185-000	DATE: 2/22/11
DRWN. BY: JB	DSGN. BY: JB	CHKD. BY: TD
		SHEET NO. OF

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