

# Notice of Intent to Award

## January 22, 2021

Notice is hereby given that the Coachella Valley Association of Governments (CVAG) intends to award a contract to the following bidder:

Crosstown Electrical & Data, Inc.

The proposed award is the result of the CVAG's Notice to Bidders listed below:

CVAG Regional Traffic Signal Synchronization Project (TSSP) - Phase 1  
Federal Aid Project No. CML-6164 (021)  
Project No. CV-2020-TSS-01

This notice constitutes compliance with the project specifications and contract documents. Any protests concerning this proposed award must be filed with and received by the Coachella Valley Association of Governments by 5:00 P.M. on January 29, 2021.

Coachella Valley Association of Governments  
Eric Cowle, Transportation Program Manager  
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Palm Desert, CA 92260,  
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electronic mail: [ecowle@cvag.org](mailto:ecowle@cvag.org)

Attachments:

- Bid Summary

RTSSP Phase 1 Bid-11-23-2020 3:00pm					Crosstown Electrical Data Inc.		Elecnor Belco Electric Inc.		DBX Inc.	
Bid	Item	Description	Quantity	Unit	Item Price (In Figures)	Total Price (Calculated)	Item Price (In Figures)	Total Price (Calculated)	Item Price (In Figures)	Total Price (Calculated)
Base	1	Mobilization	1	LS	\$ 931,756.31	\$ 931,756.31	\$ 418,672.00	\$ 418,672.00	\$ 830,000.00	\$ 830,000.00
Base	2	Dust Control	1	LS	\$ 8,000.00	\$ 8,000.00	\$ 6,000.00	\$ 6,000.00	\$ 15,000.00	\$ 15,000.00
Base	3	Traffic Control	1	LS	\$ 80,000.00	\$ 80,000.00	\$ 100,818.00	\$ 100,818.00	\$ 700,000.00	\$ 700,000.00
Base	4	Stormwater Pollution Prevention Plan (SWPPP)	1	LS	\$ 4,000.00	\$ 4,000.00	\$ 5,580.04	\$ 5,580.04	\$ 4,500.00	\$ 4,500.00
Base	5	Project Information Signs	18	EA	\$ 1,900.00	\$ 34,200.00	\$ 1,500.00	\$ 27,000.00	\$ 3,000.00	\$ 54,000.00
<b>Field Elements - Conduit, Pull Boxes, and Splice Vaults</b>										
Base	6	Furnish and install No. 6 Pull Box. Provide 45 degree conduit sweeps. Reconstruct sidewalk, match existing surface/elevation.	107	EA	\$ 2,260.00	\$ 241,820.00	\$ 2,176.00	\$ 232,832.00	\$ 1,750.00	\$ 187,250.00
Base	7	Furnish and install N40 Splice Vault with Extension. Reconstruct sidewalk, match existing surface/elevation.	59	EA	\$ 2,592.00	\$ 152,928.00	\$ 2,678.00	\$ 158,002.00	\$ 3,400.00	\$ 200,600.00
Base	8	Remove existing Pull Box. Furnish and install No. 6 Pull Box in place. Provide 45 degree conduit sweeps. Reconstruct sidewalk, match existing surface/elevation.	338	EA	\$ 2,590.00	\$ 875,420.00	\$ 2,616.00	\$ 884,208.00	\$ 1,750.00	\$ 591,500.00
Base	9	Remove existing Pull Box. Furnish and install No. 6 Pull Box in place. Protect in place existing 45 degree conduit sweeps. Reconstruct sidewalk, match existing surface/elevation.	4	EA	\$ 2,260.00	\$ 9,040.00	\$ 2,232.00	\$ 8,928.00	\$ 1,800.00	\$ 7,200.00
Base	10	Furnish and install No. 6E Pull Box. Provide 45 degree conduit sweeps. Reconstruct sidewalk, match existing surface/elevation.	25	EA	\$ 2,700.00	\$ 67,500.00	\$ 2,790.00	\$ 69,750.00	\$ 1,750.00	\$ 43,750.00
Base	11	Remove existing Pull Box and conduit sweeps. Reconstruct sidewalk or surface to match existing surface/elevation.	80	EA	\$ 1,000.00	\$ 80,000.00	\$ 1,004.00	\$ 80,320.00	\$ 1,300.00	\$ 104,000.00
Base	12	Remove existing pull box. Furnish and install N40 Splice Vault in place. Provide 45 degree conduit sweeps. Reconstruct sidewalk, match existing surface/elevation.	33	EA	\$ 2,480.00	\$ 81,840.00	\$ 2,567.00	\$ 84,711.00	\$ 3,400.00	\$ 112,200.00
Base	13	Remove existing pull box. Connect conduit. Reconstruct sidewalk, match existing surface/elevation.	129	EA	\$ 1,000.00	\$ 129,000.00	\$ 948.00	\$ 122,292.00	\$ 1,200.00	\$ 154,800.00
Base	14	Furnish and install ground rod inside pull box. (CMS locations)	5	EA	\$ 160.00	\$ 800.00	\$ 167.00	\$ 835.00	\$ 150.00	\$ 750.00
Base	15	Furnish and install 2" Sch. 80 PVC Conduit + pull tape.	3,765	LF	\$ 42.00	\$ 158,130.00	\$ 42.00	\$ 158,130.00	\$ 76.00	\$ 286,140.00
Base	16	Furnish and install 3" Sch. 80 PVC Conduit + pull tape.	4,015	LF	\$ 48.00	\$ 192,720.00	\$ 50.00	\$ 200,750.00	\$ 63.00	\$ 252,945.00
Base	17	Furnish and install 3" Sch. 80 High-Density Polyethylene (HDPE) Conduit, grey color + pull tape.	19,630	LF	\$ 47.00	\$ 922,610.00	\$ 50.00	\$ 981,500.00	\$ 57.00	\$ 1,118,910.00
Base	18	Furnish and install 2" galvanized rigid steel conduit mounting assembly. Mount existing conduit on existing bridge deck to new mounting assembly.	20	EA	\$ 216.00	\$ 4,320.00	\$ 225.00	\$ 4,500.00	\$ 180.00	\$ 3,600.00
Base	19	Furnish and install 3" 45 degree galvanized steel elbow. Connect existing 2" conduit on bridge deck to new 3" elbow using adapter.	6	EA	\$ 540.00	\$ 3,240.00	\$ 600.00	\$ 3,600.00	\$ 550.00	\$ 3,300.00
Base	20	Furnish and install a new metal straps to secure conduit to bridge deck	3	EA	\$ 864.00	\$ 2,592.00	\$ 900.00	\$ 2,700.00	\$ 350.00	\$ 1,050.00
Base	21	Remove and Salvage conduit adapter	6	EA	\$ 108.00	\$ 648.00	\$ 112.00	\$ 672.00	\$ 100.00	\$ 600.00
<b>Field Elements - Existing SIC and Fiber Optical Communication</b>										
Base	22	Remove and salvage copper Signal Interconnect Cable (SIC) from existing conduit	108,475	LF	\$ 1.10	\$ 119,322.50	\$ 0.50	\$ 54,237.50	\$ 0.40	\$ 43,390.00
Base	23	Remove and salvage Fiber Optic Cable (FOC) from existing conduit	16,125	LF	\$ 1.10	\$ 17,737.50	\$ 0.50	\$ 8,062.50	\$ 0.40	\$ 6,450.00
Base	24	Furnish and install 144 Strand Single Mode Fiber Optic Cable in existing/proposed conduit	153,300	LF	\$ 3.42	\$ 524,286.00	\$ 4.00	\$ 613,200.00	\$ 3.50	\$ 536,550.00
Base	25	Furnish and install 96 Strand Single Mode Fiber Optic Cable in existing/proposed conduit	36,870	LF	\$ 3.10	\$ 114,297.00	\$ 4.00	\$ 147,480.00	\$ 3.00	\$ 110,610.00
Base	26	Furnish and install 36 Strand Single Mode Fiber Optic Cable tape in existing/proposed conduit	3,400	LF	\$ 2.60	\$ 8,840.00	\$ 2.50	\$ 8,500.00	\$ 2.25	\$ 7,650.00
Base	27	Furnish and install 12 Strand Single Mode Fiber Optic drop cable in existing/proposed conduit	20,600	LF	\$ 2.25	\$ 46,350.00	\$ 1.90	\$ 39,140.00	\$ 2.00	\$ 41,200.00
Base	28	Furnish and install underground Fiber Optic Splice Enclosure.	112	EA	\$ 1,500.00	\$ 168,000.00	\$ 1,572.00	\$ 176,064.00	\$ 1,325.00	\$ 148,400.00
Base	29	Furnish and install 12 Port Fiber Patch Panel complete (shelf/rack mount).	97	EA	\$ 1,400.00	\$ 135,800.00	\$ 1,210.00	\$ 117,370.00	\$ 1,300.00	\$ 126,100.00
Base	30	Furnish and install 144 Port Fiber Distribution Unit complete (rack mount) in Communication HUB cabinet.	30	EA	\$ 5,300.00	\$ 159,000.00	\$ 7,508.00	\$ 225,240.00	\$ 6,610.00	\$ 198,300.00
Base	31	Furnish and install outdoor rated CAT 6 cable.	61,345	LF	\$ 2.65	\$ 162,564.25	\$ 1.90	\$ 116,555.50	\$ 2.00	\$ 122,690.00
<b>Field Elements - CCTV Cameras</b>										
Base	32	Remove and Salvage Existing CCTV camera assembly.	8	EA	\$ 278.00	\$ 2,224.00	\$ 300.00	\$ 2,400.00	\$ 182.00	\$ 1,456.00
Base	33	Furnish and install HD IP CCTV camera assembly.	69	EA	\$ 7,590.00	\$ 523,710.00	\$ 19,950.00	\$ 1,376,550.00	\$ 6,800.00	\$ 469,200.00
Base	34	Furnish and install HD IP THERMAL-VIDEO CCTV camera assembly.	1	EA	\$ 21,500.00	\$ 21,500.00	\$ 34,206.00	\$ 34,206.00	\$ 21,200.00	\$ 21,200.00
<b>Field Elements - Arterial Management System</b>										
Base	35	Remove and Salvage Existing Bluetooth Wireless detector and assembly.	4	EA	\$ 280.00	\$ 1,120.00	\$ 300.00	\$ 1,200.00	\$ 182.00	\$ 728.00
Base	36	Furnish and install Bluetooth Detector and assembly.	77	EA	\$ 8,085.00	\$ 622,545.00	\$ 7,797.00	\$ 600,369.00	\$ 8,150.00	\$ 627,550.00
<b>Field Elements - Communication HUBS</b>										
Base	37	Furnish and install Type 334L HUB Cabinet on new foundation	15	EA	\$ 9,360.00	\$ 140,400.00	\$ 10,278.00	\$ 154,170.00	\$ 11,500.00	\$ 172,500.00
Base	38	Furnish and install internal Air-Conditioner Unit Assembly	15	EA	\$ 5,425.00	\$ 81,375.00	\$ 6,097.00	\$ 91,455.00	\$ 5,300.00	\$ 79,500.00
Base	39	Furnish and install Battery Back-up System (BBS) assembly	15	EA	\$ 11,000.00	\$ 165,000.00	\$ 12,970.00	\$ 194,550.00	\$ 16,100.00	\$ 241,500.00
Base	40	Furnish and Install #8 AWG Service Conductors inside existing/proposed conduit	12,630	LF	\$ 2.00	\$ 25,260.00	\$ 1.50	\$ 18,945.00	\$ 3.00	\$ 37,890.00
Base	41	Modify existing service enclosure. Furnish and install new 120V, 40A, IP circuit breaker for HUB cabinet.	23	EA	\$ 175.00	\$ 4,025.00	\$ 142.00	\$ 3,266.00	\$ 300.00	\$ 6,900.00
Base	42	Replace landscape, hardscape, and irrigation in-kind.	10	EA	\$ 3,530.00	\$ 35,300.00	\$ 2,000.00	\$ 20,000.00	\$ 3,500.00	\$ 35,000.00
Base	43	Construct 4" PCC concrete sidewalk/pad over 4" base.	593	SF	\$ 68.00	\$ 40,324.00	\$ 51.00	\$ 30,243.00	\$ 30.00	\$ 17,790.00
Base	44	Construct 0'-6" PCC curb.	15	LF	\$ 185.00	\$ 2,775.00	\$ 125.00	\$ 1,875.00	\$ 700.00	\$ 10,500.00
<b>Field Elements - Traffic Signal Cabinets, Foundations, Controllers and MMU's</b>										
Base	45	Furnish and install Type "P44" NEMA Controller Cabinet assembly on existing foundation. Remove and salvage existing Controller Cabinet complete.	1	EA	\$ 23,500.00	\$ 23,500.00	\$ 21,472.00	\$ 21,472.00	\$ 21,000.00	\$ 21,000.00
Base	46	Furnish and install Type "O" NEMA Controller Cabinet assembly on existing foundation. Remove and salvage existing Controller Cabinet complete.	2	EA	\$ 24,250.00	\$ 48,500.00	\$ 21,939.00	\$ 43,878.00	\$ 25,000.00	\$ 50,000.00
Base	47	Furnish and Install Type 332L Cabinet assembly. Remove and salvage existing Controller Cabinet complete.	2	EA	\$ 20,500.00	\$ 41,000.00	\$ 17,454.00	\$ 34,908.00	\$ 15,500.00	\$ 31,000.00
Base	48	Furnish and Install Type 333L Cabinet assembly. Remove and salvage existing Controller Cabinet complete.	9	EA	\$ 22,500.00	\$ 202,500.00	\$ 19,304.00	\$ 173,736.00	\$ 18,000.00	\$ 162,000.00
Base	49	Furnish and install side-mount NEMA 3R enclosure and mounting cabinet, provide 120VAC power to the NEMA enclosure per NEC standards. (Backhaul Wireless locations)	1	EA	\$ 3,500.00	\$ 3,500.00	\$ 2,209.00	\$ 2,209.00	\$ 2,500.00	\$ 2,500.00
Base	50	Relocate existing BBS assembly onto new cabinet.	11	EA	\$ 960.00	\$ 10,560.00	\$ 3,900.00	\$ 42,900.00	\$ 950.00	\$ 10,450.00
Base	51	Paint cabinet downtown purple (Purple Grape Formulation) per Cathedral City Requirements and Special Provisions.	6	EA	\$ 1,725.00	\$ 10,350.00	\$ 1,200.00	\$ 7,200.00	\$ 2,000.00	\$ 12,000.00
Base	52	Furnish and install new Type 2070 ATC controller assembly per approval of CVAG and local agencies, and approved ATC firmware, in existing cabinet. Remove and salvage existing controller to City Yard. (Desert Hot Springs, Palm Springs, Cathedral City, County of Riverside, Indio, Coachella)	49	EA	\$ 3,550.00	\$ 173,950.00	\$ 2,796.00	\$ 137,004.00	\$ 3,269.00	\$ 160,181.00
Base	53	Procure and install state-furnished 2070E Controller assembly (CALTRANS)	23	EA	\$ 830.00	\$ 19,090.00	\$ 480.00	\$ 11,040.00	\$ 8,500.00	\$ 195,500.00
Base	54	Furnish and install new NEMA ATC controller assembly per approval of CVAG and local agencies, and approved ATC firmware, in new cabinet. Remove and salvage existing controller to City Yard. (Indian Wells)	3	EA	\$ 26,000.00	\$ 78,000.00	\$ 3,712.00	\$ 11,136.00	\$ 23,500.00	\$ 70,500.00
Base	55	Furnish and install D-Connector adapter ("Y" cable). Maintain existing cabinet special functions.	25	EA	\$ 295.00	\$ 7,375.00	\$ 217.00	\$ 5,425.00	\$ 1,500.00	\$ 37,500.00
Base	56	Furnish and install new NEMA ATC controller assembly per approval of CVAG and local agencies, and approved ATC firmware, in existing cabinet. Remove and salvage existing controller to City Yard. (Palm Desert, Indian Wells, La Quinta)	48	EA	\$ 2,575.00	\$ 123,600.00	\$ 3,716.00	\$ 178,368.00	\$ 2,600.00	\$ 124,800.00
Base	57	Procure and Install State-Furnished 2070E Master Controller Assembly And Configure Intersection For the Intended Operation (CALTRANS)	5	EA	\$ 1,300.00	\$ 6,500.00	\$ 485.00	\$ 2,425.00	\$ 9,500.00	\$ 47,500.00
Base	58	Remove and Salvage existing 170E/2070E master controller assembly.	1	EA	\$ 225.00	\$ 225.00	\$ 345.00	\$ 345.00	\$ 150.00	\$ 150.00
Base	59	Remove and Salvage existing NEMA master controller assembly.	1	EA	\$ 225.00	\$ 225.00	\$ 345.00	\$ 345.00	\$ 150.00	\$ 150.00
Base	60	Furnish and install NEMA IP-capable malfunction monitoring unit (MMU) (shelf-mount). Remove and salvage existing MMU.	31	EA	\$ 1,350.00	\$ 41,850.00	\$ 947.00	\$ 29,357.00	\$ 1,600.00	\$ 49,600.00

Base	61	Furnish and Install IP-capable Malfunction Monitoring Unit (MMU) for Type (33X) controller cabinet assembly complete. Remove and salvage existing MMU.	71	EA	\$ 1,225.00	\$ 86,975.00	\$ 1,286.00	\$ 91,306.00	\$ 1,400.00	\$ 99,400.00
Base	62	Furnish and install 120/240V Type III-CF service cabinet with circuit breakers complete on new foundation (CMS location)	5	EA	\$ 7,875.00	\$ 39,375.00	\$ 6,000.00	\$ 30,000.00	\$ 9,500.00	\$ 47,500.00
Base	63	Furnish and install Opticom Model 764 Multi-Mode Phase Selector in detector rack	21	EA	\$ 5,600.00	\$ 117,600.00	\$ 5,518.00	\$ 115,878.00	\$ 5,245.00	\$ 110,145.00
Base	64	Furnish and install new R3-18 sign. (CALTRANS)	1	EA	\$ 185.00	\$ 185.00	\$ 500.00	\$ 500.00	\$ 450.00	\$ 450.00
<b>Field Elements - Detection</b>										
Base	65	Install Type E Vehicle Detector Loop.	12	EA	\$ 435.00	\$ 5,220.00	\$ 447.00	\$ 5,364.00	\$ 900.00	\$ 10,800.00
Base	66	Install Modified Type E/Type D Vehicle Detector Loop.	16	EA	\$ 485.00	\$ 7,760.00	\$ 503.00	\$ 8,048.00	\$ 900.00	\$ 14,400.00
Base	67	Furnish and install Detector Lead-in Cable (DLC).	25,800	LF	\$ 2.00	\$ 51,600.00	\$ 2.34	\$ 60,372.00	\$ 1.90	\$ 49,020.00
Base	68	Furnish and install 2/4 CH Vehicle Detector (rack mount) Module.	11	EA	\$ 235.00	\$ 2,585.00	\$ 620.00	\$ 6,820.00	\$ 450.00	\$ 4,950.00
Base	69	Furnish and install new hardened H.264 Video Encoder+Data unit with power supply and jumper cables complete. Modify Existing video detection system.	1	EA	\$ 2,300.00	\$ 2,300.00	\$ 1,500.00	\$ 1,500.00	\$ 4,200.00	\$ 4,200.00
Base	70	Furnish and Install Econolite Vision Video Detection System and assembly. (4 camera system/intersection)	33	EA	\$ 33,370.00	\$ 1,101,210.00	\$ 41,375.00	\$ 1,365,375.00	\$ 31,500.00	\$ 1,039,500.00
Base	71	Furnish and Install Econolite Vision Video Detection System and assembly. (3 camera system/intersection)	3	EA	\$ 26,575.00	\$ 79,725.00	\$ 34,127.00	\$ 102,381.00	\$ 28,000.00	\$ 84,000.00
Base	72	Remove and Salvage existing video detection camera, mounting, and cable(s) complete.	140	EA	\$ 165.00	\$ 23,100.00	\$ 168.00	\$ 23,520.00	\$ 250.00	\$ 35,000.00
Base	73	Remove and Salvage existing video detection equipment inside controller cabinet.	44	EA	\$ 115.00	\$ 5,060.00	\$ 223.00	\$ 9,812.00	\$ 250.00	\$ 11,000.00
Base	74	Furnish and Install ITERIS Vantage NEXT Vector Hybrid Video Detection Cameras (HD) and assembly. (4 camera system/intersection)	4	EA	\$ 22,870.00	\$ 91,480.00	\$ 27,582.00	\$ 110,328.00	\$ 27,000.00	\$ 108,000.00
Base	75	Furnish and Install ITERIS Vantage NEXT Video Detection Cameras (HD) and Vantage NEXT Vector Hybrid Video Detection Cameras (HD) and assembly. (2 NEXT, 2 Vector NEXT Hybrid camera system/intersection)	20	EA	\$ 17,775.00	\$ 355,500.00	\$ 20,467.00	\$ 409,340.00	\$ 19,500.00	\$ 390,000.00
Base	76	Furnish and Install ITERIS Vantage NEXT Vector Hybrid Video Detection Cameras (HD) and assembly. (3 camera system/intersection)	16	EA	\$ 17,265.00	\$ 276,240.00	\$ 21,943.00	\$ 351,088.00	\$ 19,500.00	\$ 312,000.00
Base	77	Furnish and Install ITERIS R24 advanced wide dynamic range video detection cameras (HD) and assembly. (4 camera system/intersection, CALTRANS locations only)	20	EA	\$ 12,685.00	\$ 253,700.00	\$ 15,918.00	\$ 318,360.00	\$ 15,000.00	\$ 300,000.00
Base	78	Furnish and Install Itevis Video Detection System (VDS) Inside Existing Controller Cabinet. Install Vantage Edge 2 Video Processors, Extension Modules, Vantage Edgeconnect (Communication Module), Led Monitor (Rack Mounted Pull Out Drawer) And Patch Cables Complete.	18	EA	\$ 23,215.00	\$ 417,870.00	\$ 27,437.00	\$ 493,866.00	\$ 26,500.00	\$ 477,000.00
Base	79	Furnish And Install Video Detection System (VDS) Inside Existing Controller Cabinet. Install Vantage Next Platform, VDS Module(s), Communication Module, Led Monitor And Patch Cables Complete. Configure Video+Data Source For Remote Monitoring At The TMC/TOC.	34	EA	\$ 19,170.00	\$ 651,780.00	\$ 22,788.00	\$ 774,792.00	\$ 20,500.00	\$ 697,000.00
Base	80	Furnish And Install Shelf-Mount Video Detection System (VDS) Inside Existing Controller Cabinet. Install Vantage Next Platform, VDS Module(s), Led Monitor And Patch Cables Complete. Configure Video+Data Source For Remote Monitoring At The TMC/TOC.	9	EA	\$ 15,800.00	\$ 142,200.00	\$ 22,322.00	\$ 200,898.00	\$ 18,500.00	\$ 166,500.00
<b>Field Elements - Wireless Communication Systems</b>										
Base	81	Furnish and install 5GHz (Unlicensed) Point-to-Multipoint (PTMP) Wireless Broadband Radio system and assembly (Proxim).	54	EA	\$ 4,170.00	\$ 225,180.00	\$ 6,466.00	\$ 349,164.00	\$ 6,265.00	\$ 338,310.00
Base	82	Remove and Salvage existing 5GHz wireless radio system and assembly.	29	EA	\$ 268.00	\$ 7,772.00	\$ 320.00	\$ 9,280.00	\$ 182.00	\$ 5,278.00
Base	83	Furnish and install (Licensed) Point-to-Point (PTP) Wireless Broadband Radio system assembly. (Backhaul)	17	EA	\$ 11,880.00	\$ 201,960.00	\$ 14,452.00	\$ 245,684.00	\$ 18,610.00	\$ 316,370.00
Base	84	Furnish and install outdoor 10' triangular antenna tower, radio tower mast guy-anchor(s) and assembly.	5	EA	\$ 2,800.00	\$ 14,000.00	\$ 2,243.00	\$ 11,215.00	\$ 4,235.00	\$ 21,175.00
Base	85	Perform wireless spectral analysis and Line of Sight survey for licensed and unlicensed PTP and PTMP locations.	1	LS	\$ 19,350.00	\$ 19,350.00	\$ 6,398.00	\$ 6,398.00	\$ 73,840.00	\$ 73,840.00
Base	86	Furnish and install 10 foot pole and mounting assembly for wireless radio. (Backbone link)	2	EA	\$ 2,200.00	\$ 4,400.00	\$ 955.00	\$ 1,910.00	\$ 1,150.00	\$ 2,300.00
<b>Field Elements - Networking</b>										
Base	87	Furnish and install Hardened Managed Ethernet Switch (Edge) system and assembly.	141	EA	\$ 3,450.00	\$ 486,450.00	\$ 3,429.00	\$ 483,489.00	\$ 3,480.00	\$ 490,680.00
Base	88	Furnish and install Hardened Managed 24 Port Gigabit Aggregate Switch (HUB) system and assembly	16	EA	\$ 10,540.00	\$ 168,640.00	\$ 9,860.00	\$ 157,760.00	\$ 10,140.00	\$ 162,240.00
Base	89	Furnish and install Hardened Managed Ethernet-over-Copper (VDSL2) Switch system and assembly.	3	EA	\$ 1,950.00	\$ 5,850.00	\$ 5,839.00	\$ 17,517.00	\$ 4,030.00	\$ 12,090.00
Base	90	Furnish and install Time-Sync GPS Module, Antenna and cable complete.	6	EA	\$ 1,450.00	\$ 8,700.00	\$ 1,789.00	\$ 10,734.00	\$ 1,300.00	\$ 7,800.00
Base	91	Procure and Install State Furnished 2070-7G Time Sync GPS module, antenna, and cable complete. (CALTRANS)	7	EA	\$ 400.00	\$ 2,800.00	\$ 321.00	\$ 2,247.00	\$ 2,500.00	\$ 17,500.00
Base	92	Procure and Install state furnished 2070-6D fiber digital modem complete. (CALTRANS)	17	EA	\$ 400.00	\$ 6,800.00	\$ 480.00	\$ 8,160.00	\$ 3,800.00	\$ 64,600.00
Base	93	Furnish and install new Hardened 4G/LTE Verizon Wireless Cellular Gateway Modem system and assembly-including SIM Card.	1	EA	\$ 3,440.00	\$ 3,440.00	\$ 1,284.00	\$ 1,284.00	\$ 8,900.00	\$ 8,900.00
Base	94	Furnish and install New Hardened 4G/LTE Verizon Wireless cellular modem system and assembly - including SIM Card. (CALTRANS)	9	EA	\$ 3,440.00	\$ 30,960.00	\$ 1,303.00	\$ 11,727.00	\$ 8,900.00	\$ 80,100.00
<b>Field Elements - CMS/DMS Sign systems</b>										
Base	95	Furnish and install No.8 AWG Conductors in existing/proposed cabinet conduit. (CMS/DMS controller cabinet)	5,535	LF	\$ 2.00	\$ 11,070.00	\$ 1.60	\$ 8,856.00	\$ 3.00	\$ 16,605.00
Base	96	Furnish and install No.8 AWG Conductors in existing/proposed cabinet conduit. (CMS/DMS Sign Panel)	5,545	LF	\$ 2.00	\$ 11,090.00	\$ 1.60	\$ 8,872.00	\$ 3.00	\$ 16,635.00
Base	97	Furnish and install Overhead CMS/DMS tubular structure including, mast arm, pole, mounting brackets, aesthetic elements, and CIDH Foundation complete.	5	EA	\$ 40,450.00	\$ 202,250.00	\$ 48,000.00	\$ 240,000.00	\$ 53,762.00	\$ 268,810.00
Base	98	Furnish and install Full Color LED Overhead CMS/DMS panel (5'8" x 14'6" x 1'4") complete.	5	EA	\$ 59,250.00	\$ 296,250.00	\$ 62,151.00	\$ 310,755.00	\$ 70,000.00	\$ 350,000.00
Base	99	Furnish and install Type 334L CMS/DMS Cabinet assembly with CMS/DMS controller complete on new foundation.	5	EA	\$ 13,275.00	\$ 66,375.00	\$ 11,965.00	\$ 59,825.00	\$ 12,000.00	\$ 60,000.00
Base	100	Furnish and install Hybrid CMS/DMS Sign Fiber Optic data cable.	1,000	LF	\$ 7.00	\$ 7,000.00	\$ 3.78	\$ 3,780.00	\$ 3.00	\$ 3,000.00
Base	101	Construct 4" PCC concrete pad around CMS/DMS, controller cabinet and pull boxes	1,400	SF	\$ 35.00	\$ 49,000.00	\$ 17.86	\$ 25,004.00	\$ 19.00	\$ 26,600.00
<b>Traffic Signal Improvements</b>										
Base	102	Traffic Signal Modification Improvements for Bankside Drive at Highway 111	1	LS	\$ 106,175.00	\$ 106,175.00	\$ 140,000.00	\$ 140,000.00	\$ 83,291.00	\$ 83,291.00
Base	103	Traffic Signal Modification Improvements for Channel Drive at Washington Street	1	LS	\$ 110,235.00	\$ 110,235.00	\$ 115,000.00	\$ 115,000.00	\$ 12,000.00	\$ 12,000.00
Base	104	Traffic Signal Modification Improvements for Highway 111 at Washington Street - (Signal Rewire)	1	LS	\$ 47,350.00	\$ 47,350.00	\$ 42,000.00	\$ 42,000.00	\$ 29,000.00	\$ 29,000.00
<b>TMC/TOC Elements - General TMC/TOC Cabling and Routing Work</b>										
Base	105	Furnish and install 1.5" corrugated loom tubing.	4,305	LF	\$ 4.60	\$ 24,108.00	\$ 5.00	\$ 21,525.00	\$ 4.00	\$ 17,220.00
Base	106	Furnish and install indoor rated CAT 5E cable inside 1.5" corrugated loom tubing.	2,655	LF	\$ 2.20	\$ 5,841.00	\$ 5.00	\$ 13,275.00	\$ 1.00	\$ 2,655.00
Base	107	Furnish and Install CAT6 cable(s) (Indoor Type - No. of cables as noted) inside new low profile over floor cable raceway duct.	1,825	LF	\$ 3.80	\$ 6,935.00	\$ 1.90	\$ 3,467.50	\$ 2.00	\$ 3,650.00
Base	108	Furnish and install indoor-plenum rated 12 Strand Single Mode Fiber Optic cable in corrugated loom tubing	3,350	LF	\$ 4.30	\$ 14,405.00	\$ 1.90	\$ 6,365.00	\$ 3.00	\$ 10,050.00
Base	109	Furnish and install indoor-plenum rated 144 Strand Single Mode Fiber Optic cable in corrugated loom tubing	1,750	LF	\$ 6.60	\$ 11,550.00	\$ 5.00	\$ 8,750.00	\$ 17.00	\$ 29,750.00
Base	110	Furnish and install 24 Port Fiber Distribution Unit complete (rack mount). Terminate fiber optic cable.	1	EA	\$ 2,150.00	\$ 2,150.00	\$ 2,500.00	\$ 2,500.00	\$ 2,415.00	\$ 2,415.00
Base	111	Furnish and install 2-144 Port Fiber Distribution Units complete (rack mount). Terminate fiber optic cable. (two at each TMC)	8	EA	\$ 12,200.00	\$ 97,600.00	\$ 7,800.00	\$ 62,400.00	\$ 13,220.00	\$ 105,760.00
Base	112	Furnish and install 3" L.B. (45 Degrees) and 3" rigid steel conduit from proposed vault to building entry point. Core drill into existing masonry wall.	1	EA	\$ 3,500.00	\$ 3,500.00	\$ 6,100.00	\$ 6,100.00	\$ 8,500.00	\$ 8,500.00
Base	113	Furnish and install Fiber Optic jumper cables	4	EA	\$ 60.00	\$ 240.00	\$ 100.00	\$ 400.00	\$ 60.00	\$ 240.00

Base	114	Furnish and install fiber optic media converter link (pair)	8	EA	\$ 3,400.00	\$ 27,200.00	\$ 1,000.00	\$ 8,000.00	\$ 1,095.00	\$ 8,760.00
Base	115	Furnish and install overhead ladder rack for cable management	2	EA	\$ 3,215.00	\$ 6,430.00	\$ 1,600.00	\$ 3,200.00	\$ 1,080.00	\$ 2,160.00
<b>TMC/TOC Elements - Advanced Traffic Management System (ATMS) - LOCAL</b>										
Base	116	Furnish and install Local ATMS (L-ATMS) for Palm Springs system complete	1	EA	\$ 43,245.00	\$ 43,245.00	\$ 12,737.00	\$ 12,737.00	\$ 46,640.00	\$ 46,640.00
Base	117	Furnish and install Local ATMS (L-ATMS) for Cathedral City system complete	1	EA	\$ 53,180.00	\$ 53,180.00	\$ 18,737.00	\$ 18,737.00	\$ 57,220.00	\$ 57,220.00
Base	118	Furnish and install Local ATMS (L-ATMS) for Desert Hot Springs system complete	1	EA	\$ 20,880.00	\$ 20,880.00	\$ 6,466.00	\$ 6,466.00	\$ 22,055.00	\$ 22,055.00
Base	119	Furnish and install Local ATMS (L-ATMS) for County of Riverside system complete	1	EA	\$ 23,370.00	\$ 23,370.00	\$ 10,506.00	\$ 10,506.00	\$ 24,700.00	\$ 24,700.00
Base	120	Furnish and install Local ATMS (L-ATMS) for Coachella system complete	1	EA	\$ 19,650.00	\$ 19,650.00	\$ 8,741.00	\$ 8,741.00	\$ 20,735.00	\$ 20,735.00
Base	121	Furnish and install Local ATMS (L-ATMS) for Palm Desert system Complete	1	EA	\$ 55,660.00	\$ 55,660.00	\$ 19,913.00	\$ 19,913.00	\$ 59,865.00	\$ 59,865.00
Base	122	Furnish and install Local ATMS (L-ATMS) for Indian Wells system complete	1	EA	\$ 25,855.00	\$ 25,855.00	\$ 11,682.00	\$ 11,682.00	\$ 27,345.00	\$ 27,345.00
Base	123	Furnish and install Local ATMS (L-ATMS) for La Quinta system complete	1	EA	\$ 53,180.00	\$ 53,180.00	\$ 18,737.00	\$ 18,737.00	\$ 57,220.00	\$ 57,220.00
Base	124	Furnish and install Local ATMS (L-ATMS) for Indio system complete	1	EA	\$ 46,970.00	\$ 46,970.00	\$ 15,797.00	\$ 15,797.00	\$ 50,610.00	\$ 50,610.00
Base	125	Modify and maintain existing ATMS system as part of the integration of the new ATMS (Palm Springs)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
Base	126	Modify and maintain existing ATMS system as part of the integration of the new ATMSm (Coachella)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
Base	127	Modify and maintain existing ATMS system as part of the integration of the new ATMS (Palm Desert)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
Base	128	Modify and maintain existing ATMS system as part of the integration of the new ATMS (Indian Wells)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
Base	129	Modify and maintain existing ATMS system as part of the integration of the new ATMS (La Quinta)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
Base	130	Modify and maintain existing ATMS system as part of the integration of the new ATMS (Indio)	1	EA	\$ 4,050.00	\$ 4,050.00	\$ 1,500.00	\$ 1,500.00	\$ 3,140.00	\$ 3,140.00
<b>TMC/TOC Elements - (STMP) and (R-ATMS) - REGIONAL</b>										
Base	131	Furnish and install the Regional Smart Transportation Management Platform (STMP) Hardware/Software platform complete	1	EA	\$ 467,100.00	\$ 467,100.00	\$ 935,065.00	\$ 935,065.00	\$ 498,640.00	\$ 498,640.00
Base	132	Furnish and install Regional ATMS (R-ATMS) for CVAG Regional system complete	1	EA	\$ 49,775.00	\$ 49,775.00	\$ 3,500.00	\$ 3,500.00	\$ 48,500.00	\$ 48,500.00
Base	133	Furnish and configure Regional STMP/R-ATMS client software on local workstations	1	EA	\$ 19,470.00	\$ 19,470.00	\$ 3,500.00	\$ 3,500.00	\$ 18,600.00	\$ 18,600.00
Base	134	Furnish and configure regional servers to Cloud services as a back-up (and for future use as the primary central system) to include the STMP, R-ATMS, CMS/DMS, AMS, and NAS including links to the back-up TMC's, all local TOC's, County, and Caltrans TMC.	1	EA	\$ 191,170.00	\$ 191,170.00	\$ 3,100.00	\$ 3,100.00	\$ 266,800.00	\$ 266,800.00
<b>TMC/TOC Elements - Video Management System (VMS)</b>										
Base	135	Furnish, install, and configure Desert Hot Springs - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 27,300.00	\$ 27,300.00	\$ 30,807.00	\$ 30,807.00	\$ 29,930.00	\$ 29,930.00
Base	136	Furnish, install, and configure Palm Springs - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 57,670.00	\$ 57,670.00	\$ 63,483.00	\$ 63,483.00	\$ 60,490.00	\$ 60,490.00
Base	137	Furnish, install, and configure Cathedral City - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 61,215.00	\$ 61,215.00	\$ 69,362.00	\$ 69,362.00	\$ 66,090.00	\$ 66,090.00
Base	138	Furnish, install, and configure Palm Desert - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 66,600.00	\$ 66,600.00	\$ 75,234.00	\$ 75,234.00	\$ 71,785.00	\$ 71,785.00
Base	139	Furnish, install, and configure Indian Wells - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 39,845.00	\$ 39,845.00	\$ 45,637.00	\$ 45,637.00	\$ 43,510.00	\$ 43,510.00
Base	140	Furnish, install, and configure La Quinta - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 61,215.00	\$ 61,215.00	\$ 69,362.00	\$ 69,362.00	\$ 66,090.00	\$ 66,090.00
Base	141	Furnish, install, and configure Indio - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 59,875.00	\$ 59,875.00	\$ 67,878.00	\$ 67,878.00	\$ 64,680.00	\$ 64,680.00
Base	142	Furnish, install, and configure Coachella - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 34,500.00	\$ 34,500.00	\$ 39,705.00	\$ 39,705.00	\$ 37,860.00	\$ 37,860.00
Base	143	Furnish, install, and configure County of Riverside - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 34,500.00	\$ 34,500.00	\$ 39,705.00	\$ 39,705.00	\$ 37,860.00	\$ 37,860.00
Base	144	Furnish, install, and configure Regional TMC - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 64,445.00	\$ 64,445.00	\$ 67,062.00	\$ 67,062.00	\$ 63,900.00	\$ 63,900.00
Base	145	Furnish, install, and configure Genetec's - Bosch Traffic Data Integration Module.	8	EA	\$ 9,570.00	\$ 76,560.00	\$ 11,252.00	\$ 90,016.00	\$ 10,180.00	\$ 81,440.00
Base	146	Furnish, install, and configure Genetec Mobile Application.	3	EA	\$ 5,125.00	\$ 15,375.00	\$ 6,346.00	\$ 19,038.00	\$ 5,340.00	\$ 16,020.00
Base	147	Furnish, install, and configure VMS Recording system complete - Regional TMC	1	EA	\$ 25,800.00	\$ 25,800.00	\$ 29,930.00	\$ 29,930.00	\$ 28,560.00	\$ 28,560.00
<b>TMC/TOC Elements - Changeable/Dynamic Message Sign System (CMS/DMS)</b>										
Base	148	Furnish, install, and configure Daktronics CMS/DMS management server, hardware, Vanguard Professional software, power supply, and patch cords complete.	9	EA	\$ 5,120.00	\$ 46,080.00	\$ 4,908.00	\$ 44,172.00	\$ 10,965.00	\$ 98,685.00
<b>TMC/TOC Elements - Arterial Management System (AMS)</b>										
Base	149	Furnish, install, and configure BlueArgus web-based client software on Local TOCs, Back-up TMC's, and Regional TMC.	10	EA	\$ 5,640.00	\$ 56,400.00	\$ 7,538.00	\$ 75,380.00	\$ 7,785.00	\$ 77,850.00
<b>TMC/TOC Elements - Network Attached Storage (NAS)</b>										
Base	150	Furnish, install, and configure network attached storage (NAS) TOC/TMC	9	EA	\$ 5,120.00	\$ 46,080.00	\$ 4,320.00	\$ 38,880.00	\$ 9,240.00	\$ 83,160.00
Base	151	Furnish, install, and configure network attached storage (NAS) RTMC	1	EA	\$ 504,860.00	\$ 504,860.00	\$ 74,923.00	\$ 74,923.00	\$ 90,960.00	\$ 90,960.00
<b>TMC/TOC Elements - Network Monitoring System (NMS)</b>										
Base	152	Furnish, install, and configure professional network monitoring software (NMS) on local workstations. (Hirschmann Network Management)	11	EA	\$ 6,220.00	\$ 68,420.00	\$ 5,665.00	\$ 62,315.00	\$ 6,100.00	\$ 67,100.00
<b>TMC Elements - Network Equipment - Regional, Back-Up TMC, Local</b>										
Base	153	Furnish and install Layer 3 Cisco Chassis Switch (Regional TMC)	1	EA	\$ 90,180.00	\$ 90,180.00	\$ 98,720.00	\$ 98,720.00	\$ 99,575.00	\$ 99,575.00
Base	154	Furnish and install full height 42RU enclosed server rack, fan, locking door assembly, and power strip complete.	9	EA	\$ 4,765.00	\$ 42,885.00	\$ 2,602.00	\$ 23,418.00	\$ 6,320.00	\$ 56,880.00
Base	155	Furnish and install 18RU enclosed server rack, fan, locking door assembly, power strip complete on rolling castors	6	EA	\$ 1,600.00	\$ 9,600.00	\$ 4,582.00	\$ 27,492.00	\$ 3,280.00	\$ 19,680.00
Base	156	Furnish and install wall-mounted 18U enclosed rack.	2	EA	\$ 2,260.00	\$ 4,520.00	\$ 1,211.00	\$ 2,422.00	\$ 2,315.00	\$ 4,630.00
Base	157	Furnish and install KVM unit.	10	EA	\$ 3,395.00	\$ 33,950.00	\$ 3,062.00	\$ 30,620.00	\$ 3,170.00	\$ 31,700.00
Base	158	Furnish and install UPS unit.	8	EA	\$ 3,780.00	\$ 30,240.00	\$ 1,973.00	\$ 15,784.00	\$ 3,410.00	\$ 27,280.00
Base	159	Furnish and install 24 Port Layer 3 Cisco Core Switch, SFP modules, power supply and patch cords complete	9	EA	\$ 10,390.00	\$ 93,510.00	\$ 11,271.00	\$ 101,439.00	\$ 12,375.00	\$ 111,375.00
Base	160	Furnish and install new Managed 24 Port gigabit aggregate Switch, SFP modules, power supply and patch cords complete	10	EA	\$ 8,810.00	\$ 88,100.00	\$ 8,702.00	\$ 87,020.00	\$ 9,865.00	\$ 98,650.00
Base	161	Furnish and install new wireless radio for link to future City Hall	1	EA	\$ 11,880.00	\$ 11,880.00	\$ 1,500.00	\$ 1,500.00	\$ 18,610.00	\$ 18,610.00
Base	162	Furnish and install new backbone wireless radio for link to Amtrak Station	1	EA	\$ 11,880.00	\$ 11,880.00	\$ 1,500.00	\$ 1,500.00	\$ 18,610.00	\$ 18,610.00
Base	163	Furnish and install Firewall/VPN appliance (TOC)	7	EA	\$ 5,300.00	\$ 37,100.00	\$ 4,800.00	\$ 33,600.00	\$ 6,210.00	\$ 43,470.00
Base	164	Furnish and install Firewall/VPN appliance (RTMC/Back-up TMC)	3	EA	\$ 17,800.00	\$ 53,400.00	\$ 18,819.00	\$ 56,457.00	\$ 20,745.00	\$ 62,235.00
Base	165	Furnish and install dedicated business-class internet access line	11	EA	\$ 19,240.00	\$ 211,640.00	\$ 11,044.00	\$ 121,484.00	\$ 8,865.00	\$ 97,515.00
<b>TMC Elements - Video Display / Video Wall</b>										
Base	166	Furnish and install BARCO 55" LED video wall display and assembly (Back-Up TMC's and Regional)	19	EA	\$ 8,800.00	\$ 167,200.00	\$ 11,806.00	\$ 224,314.00	\$ 20,775.00	\$ 394,725.00
Base	167	Furnish and install 65" NEC commercial grade display monitor, internal NUC, and wall mounting assembly complete (Lobby area - Regional)	3	EA	\$ 7,560.00	\$ 22,680.00	\$ 4,806.00	\$ 14,418.00	\$ 3,920.00	\$ 11,760.00
<b>TMC Elements - A/V Equipment / Furniture</b>										
Base	168	Furnish and install ergonomic 48" workstation desk and accessories complete	13	EA	\$ 3,275.00	\$ 42,575.00	\$ 4,074.00	\$ 52,962.00	\$ 4,155.00	\$ 54,015.00

Base	169	Furnish and install ergonomic workstation chair assembly complete	13	EA	\$ 1,725.00	\$ 22,425.00	\$ 920.00	\$ 11,960.00	\$ 1,160.00	\$ 15,080.00
Base	170	Furnish and install dual 24" LED monitors, tower workstation, keyboard/mouse, and accessories complete	14	EA	\$ 5,240.00	\$ 73,360.00	\$ 5,234.00	\$ 73,276.00	\$ 5,640.00	\$ 78,960.00
Base	171	Furnish and install 7" color touch screen panel	4	EA	\$ 2,719.00	\$ 10,876.00	\$ 2,616.00	\$ 10,464.00	\$ 9,200.00	\$ 36,800.00
Base	172	Furnish and install low profile cable raceway duct	235	LF	\$ 28.10	\$ 6,603.50	\$ 10.00	\$ 2,350.00	\$ 34.00	\$ 7,990.00
Base	173	Furnish and install 4" text digital PoE clock	8	EA	\$ 1,115.00	\$ 8,920.00	\$ 775.00	\$ 6,200.00	\$ 2,205.00	\$ 17,640.00
Base	174	Furnish and install A/V control server, power supply, and patch cords complete.	4	EA	\$ 24,886.00	\$ 99,544.00	\$ 3,843.00	\$ 15,372.00	\$ 23,240.00	\$ 92,960.00
Base	175	Relocate existing master controller equipment to designated rack in EOC and TOC (Palm Desert)	1	LS	\$ 2,175.00	\$ 2,175.00	\$ 1,296.00	\$ 1,296.00	\$ 7,340.00	\$ 7,340.00
Base	176	Furnish, install, and configure Hardened Ruggedized Laptop for field operations staff - Deliver 2 to each Agency.	22	EA	\$ 3,300.00	\$ 72,600.00	\$ 3,945.00	\$ 86,790.00	\$ 3,610.00	\$ 79,420.00
<b>Asset and Maintenance Management System</b>										
Base	177	Furnish and install Regional Asset and Maintenance Management System complete	1	LS	\$ 270,000.00	\$ 270,000.00	\$ 279,026.00	\$ 279,026.00	\$ 300,000.00	\$ 300,000.00
<b>Integration, Testing, and Commissioning</b>										
Base	178	System Integration at Field Elements	1	LS	\$ 364,815.00	\$ 364,815.00	\$ 481,174.00	\$ 481,174.00	\$ 540,910.00	\$ 540,910.00
Base	179	System Integration TOC (Local TOC's)	6	EA	\$ 7,240.00	\$ 43,440.00	\$ 11,335.00	\$ 68,010.00	\$ 14,400.00	\$ 86,400.00
Base	180	System Integration Back-up TMC's (2 Back-up TMC's, 1 Remote Access Workstation (Consultant))	3	EA	\$ 8,040.00	\$ 24,120.00	\$ 17,942.00	\$ 53,826.00	\$ 14,400.00	\$ 43,200.00
Base	181	System Integration REGIONAL TMC	1	EA	\$ 8,040.00	\$ 8,040.00	\$ 642,930.00	\$ 642,930.00	\$ 22,720.00	\$ 22,720.00
Base	182	System Integration CALTRANS	1	EA	\$ 33,472.00	\$ 33,472.00	\$ 80,634.00	\$ 80,634.00	\$ 48,480.00	\$ 48,480.00
Base	183	System Integration County of Riverside	1	EA	\$ 5,360.00	\$ 5,360.00	\$ 40,944.00	\$ 40,944.00	\$ 18,560.00	\$ 18,560.00
Base	184	Network Testing and System Documentation (STMP, R-ATMS, L-ATMS, VMS, AMS, NMS)	1	LS	\$ 71,780.00	\$ 71,780.00	\$ 352,719.00	\$ 352,719.00	\$ 73,185.00	\$ 73,185.00
Base	185	Network Testing and System Documentation (Fiber Optic, Traffic Network, and ITS field elements)	1	LS	\$ 166,960.00	\$ 166,960.00	\$ 115,000.00	\$ 115,000.00	\$ 99,840.00	\$ 99,840.00
Base	186	As-Built Plans	1	LS	\$ 13,400.00	\$ 13,400.00	\$ 12,797.00	\$ 12,797.00	\$ 34,640.00	\$ 34,640.00
<b>ITS Field Elements Training - (4 Days Total)</b>										
Base	187	VMS Training (CCTV, Video/Radar Detection)	1	LS	\$ 28,288.00	\$ 28,288.00	\$ 36,079.00	\$ 36,079.00	\$ 56,660.00	\$ 56,660.00
Base	188	CMS/DMS Training	1	LS	\$ 4,020.00	\$ 4,020.00	\$ 18,406.00	\$ 18,406.00	\$ 6,660.00	\$ 6,660.00
Base	189	Arterial Management Systems (AMS) - Bluetooth Training	1	LS	\$ 5,508.00	\$ 5,508.00	\$ 13,954.00	\$ 13,954.00	\$ 12,780.00	\$ 12,780.00
<b>Regional TMC Training - (8 Days Total)</b>										
Base	190	Regional ATMS Training	1	LS	\$ 32,211.00	\$ 32,211.00	\$ 46,211.00	\$ 46,211.00	\$ 46,222.00	\$ 46,222.00
Base	191	Regional ITS Elements Training (CCTV, Video/Radar Detection, CMS/DMS,VMS)	1	LS	\$ 6,877.00	\$ 6,877.00	\$ 6,398.00	\$ 6,398.00	\$ 70,915.00	\$ 70,915.00
<b>Local TOC Training - (8 Days Total)</b>										
Base	192	Local ATMS Training	1	LS	\$ 6,480.00	\$ 6,480.00	\$ 27,671.00	\$ 27,671.00	\$ 20,510.00	\$ 20,510.00
Base	193	Local TOC ITS Elements Training (CCTV, Video/Radar Detection, CMS,VMS)	1	LS	\$ 6,877.00	\$ 6,877.00	\$ 32,395.00	\$ 32,395.00	\$ 70,915.00	\$ 70,915.00
<b>Network Training - (2 Days Total)</b>										
Base	194	Network Training	1	LS	\$ 22,000.00	\$ 22,000.00	\$ 29,450.00	\$ 29,450.00	\$ 33,530.00	\$ 33,530.00
					<b>Total Base</b>	<b>\$ 18,699,602.06</b>	<b>Total Base</b>	<b>\$ 20,693,670.04</b>	<b>Total Base</b>	<b>\$ 20,705,896.00</b>
<b>Additive Alternate Bid Item A</b>										
<b>CVAG Regional Traffic Management Center (RTMC) Building Tenant Improvements</b>										
<b>Interior Demolition</b>										
Alt-A	200	Protect Existing	1	LS	\$ 2,200.00	\$ 2,200.00	\$ 2,232.00	\$ 2,232.00	\$ 3,000.00	\$ 3,000.00
Alt-A	201	Remove ACT Ceiling	335	SF	\$ 1.93	\$ 646.55	\$ 23.00	\$ 7,705.00	\$ 5.00	\$ 1,675.00
Alt-A	202	Remove 3'x7' Doors & Frames	1	EA	\$ 495.00	\$ 495.00	\$ 4,464.00	\$ 4,464.00	\$ 250.00	\$ 250.00
Alt-A	203	Remove Existing Cabinetry at Room 202	1	LS	\$ 1,925.00	\$ 1,925.00	\$ 2,790.00	\$ 2,790.00	\$ 500.00	\$ 500.00
Alt-A	204	Remove Interior Walls, 9' high	532	SF	\$ 2.07	\$ 1,101.24	\$ 14.00	\$ 7,448.00	\$ 16.00	\$ 8,512.00
Alt-A	205	Remove Storefront, Frames and Glazing	1	LS	\$ 2,420.00	\$ 2,420.00	\$ 3,348.00	\$ 3,348.00	\$ 4,000.00	\$ 4,000.00
Alt-A	206	Remove Flooring	490	SF	\$ 1.93	\$ 945.70	\$ 15.00	\$ 7,350.00	\$ 5.50	\$ 2,695.00
<b>Concrete</b>										
Alt-A	207	Patch/Prep Existing Concrete Floor Slab At Demo	490	SF	\$ 11.00	\$ 5,390.00	\$ 28.00	\$ 13,720.00	\$ 3.00	\$ 1,470.00
<b>Metals</b>										
Alt-A	208	Misc. Metals Allowance (ties, connections, bracing, bolts, etc.)	1	LS	\$ 2,750.00	\$ 2,750.00	\$ 4,464.00	\$ 4,464.00	\$ 3,600.00	\$ 3,600.00
<b>Wood and Plastics</b>										
Alt-A	209	Rough Carpentry - Blocking	490	SF	\$ 7.43	\$ 3,640.70	\$ 23.00	\$ 11,270.00	\$ 16.00	\$ 7,840.00
Alt-A	210	Rough Carpentry - Additional Blocking At Display Monitor Wall	96	SF	\$ 7.43	\$ 713.28	\$ 28.00	\$ 2,688.00	\$ 20.00	\$ 1,920.00
Alt-A	211	Architectural Millwork - PL Base Cabinet W/ PL Countertop At Rm #200	12	LF	\$ 275.00	\$ 3,300.00	\$ 458.00	\$ 5,496.00	\$ 40.00	\$ 480.00
<b>Thermal &amp; Moisture Protection</b>										
Alt-A	212	Sound & Thermal Insulation, Walls	126	SF	\$ 1.21	\$ 152.46	\$ 59.00	\$ 7,434.00	\$ 14.00	\$ 1,764.00
Alt-A	213	Caulking & Sealants - Allowance	1	LS	\$ 2,750.00	\$ 2,750.00	\$ 2,009.00	\$ 2,009.00	\$ 250.00	\$ 250.00
Alt-A	214	Roof Demo/Cutting/Patching At New Unit	1	LS	\$ 3,850.00	\$ 3,850.00	\$ 11,162.00	\$ 11,162.00	\$ 1,500.00	\$ 1,500.00
<b>Doors &amp; Windows</b>										
Alt-A	215	Sliding Aluminum Door, Frame & Hardware, Single, 3'-0"x7'-0"	2	EA	\$ 2,860.00	\$ 5,720.00	\$ 2,343.00	\$ 4,686.00	\$ 6,000.00	\$ 12,000.00
Alt-A	216	Aluminum Storefront Fixed Panel	96	SF	\$ 110.00	\$ 10,560.00	\$ 17.00	\$ 1,632.00	\$ 80.00	\$ 7,680.00
<b>Finishes</b>										
Alt-A	217	Drywall - Patch/Repair Existing Gyp Bd Walls	1,397	SF	\$ 3.30	\$ 4,610.10	\$ 9.00	\$ 12,573.00	\$ 5.00	\$ 6,985.00
Alt-A	218	Drywall - 3 5/8" Metal Framing, 5/8" GWB, 2s - Interior Partition	126	SF	\$ 16.50	\$ 2,079.00	\$ 34.00	\$ 4,284.00	\$ 65.00	\$ 8,190.00
Alt-A	219	Drywall - 3 5/8" Metal framing, 5/8" GWB, 2s, Soffits/Bulkheads	446	SF	\$ 16.50	\$ 7,359.00	\$ 34.00	\$ 15,164.00	\$ 63.00	\$ 28,098.00
Alt-A	220	Flooring - Carpet Tiles	26	SY	\$ 23.10	\$ 600.60	\$ 84.00	\$ 2,184.00	\$ 60.00	\$ 1,560.00
Alt-A	221	Flooring - VCT	160	SF	\$ 6.60	\$ 1,056.00	\$ 21.00	\$ 3,360.00	\$ 15.00	\$ 2,400.00
Alt-A	222	Flooring - VCT - Static Dissipative	120	SF	\$ 9.90	\$ 1,188.00	\$ 28.00	\$ 3,360.00	\$ 19.00	\$ 2,280.00
Alt-A	223	Flooring - Misc. Transition Strips - Allowance	1	LS	\$ 1,650.00	\$ 1,650.00	\$ 2,232.00	\$ 2,232.00	\$ 1,500.00	\$ 1,500.00
Alt-A	224	Flooring - Rubber Base	132	LF	\$ 2.20	\$ 290.40	\$ 21.00	\$ 2,772.00	\$ 20.00	\$ 2,640.00
Alt-A	225	Ceiling - Suspended Ceiling w/ 5/8" Gyp Bd	73	SF	\$ 25.30	\$ 1,846.90	\$ 23.00	\$ 1,679.00	\$ 60.00	\$ 4,380.00
Alt-A	226	Ceiling - 3 5/8" Metal framing, 5/8" GWB, 1s, Light Cove	121	SF	\$ 27.50	\$ 3,327.50	\$ 23.00	\$ 2,783.00	\$ 55.00	\$ 6,655.00
Alt-A	227	Ceiling - 3 5/8" Metal framing, 5/8" GWB, 1s, Shade Pocket	51	SF	\$ 35.20	\$ 1,795.20	\$ 23.00	\$ 1,173.00	\$ 60.00	\$ 3,060.00
Alt-A	228	Ceiling - ACT, 2x4 Armstrong #704 Cortega Angled Tegular, Suprafine 9/16" grid	145	SF	\$ 7.70	\$ 1,116.50	\$ 23.00	\$ 3,335.00	\$ 19.00	\$ 2,755.00
Alt-A	229	Ceiling - ACT, 2x2 Armstrong #704 Cortega Angled Tegular, Suprafine 9/16" grid	134	SF	\$ 7.70	\$ 1,031.80	\$ 23.00	\$ 3,082.00	\$ 19.00	\$ 2,546.00
Alt-A	230	Paint Soffits/Bulkheads	311	SF	\$ 1.65	\$ 513.15	\$ 14.00	\$ 4,354.00	\$ 9.00	\$ 2,799.00
Alt-A	231	Paint New & Extg Gyp Bd Walls	1,486	SF	\$ 1.65	\$ 2,451.90	\$ 6.00	\$ 8,916.00	\$ 10.50	\$ 15,603.00
<b>Specialties</b>										
Alt-A	232	Signage Allowance, Interior	1	LS	\$ 825.00	\$ 825.00	\$ 2,231.00	\$ 2,231.00	\$ 5,200.00	\$ 5,200.00
<b>Furnishings</b>										
Alt-A	233	Roller Window Shades	130	SF	\$ 23.10	\$ 3,003.00	\$ 28.00	\$ 3,640.00	\$ 72.00	\$ 9,360.00
<b>Mechanical Systems</b>										
Alt-A	234	Plumbing, condensate drain piping	16	LF	\$ 220.00	\$ 3,520.00	\$ 67.00	\$ 1,072.00	\$ 100.00	\$ 1,600.00
Alt-A	235	Condensate pump, "Little Giant" model # EC-400	1	EA	\$ 231.00	\$ 231.00	\$ 1,674.00	\$ 1,674.00	\$ 1,000.00	\$ 1,000.00
Alt-A	236	Fire Sprinkler (Relocate sprinkler heads is needed for new lay-out)	1	LS	\$ 3,850.00	\$ 3,850.00	\$ 11,161.00	\$ 11,161.00	\$ 5,200.00	\$ 5,200.00
Alt-A	237	HVAC Wall mtd ductless unit w/ CU on roof & refrigerant lines	1	EA	\$ 13,475.00	\$ 13,475.00	\$ 13,394.00	\$ 13,394.00	\$ 9,000.00	\$ 9,000.00
Alt-A	238	Roof penetration for refrigerant lines	2	EA	\$ 1,100.00	\$ 2,200.00	\$ 893.00	\$ 1,786.00	\$ 900.00	\$ 1,800.00
Alt-A	239	Set roof mtd CU curb	1	EA	\$ 2,475.00	\$ 2,475.00	\$ 2,233.00	\$ 2,233.00	\$ 1,000.00	\$ 1,000.00
Alt-A	240	Relocate air grilles & diffusers as noted drwg. M-1.0	12	LS	\$ 605.00	\$ 7,260.00	\$ 782.00	\$ 9,384.00	\$ 7,500.00	\$ 90,000.00
Alt-A	241	Service all exist'g HVAC equip't per note # 3, M-1.0	8	LS	\$ 632.50	\$ 5,060.00	\$ 1,340.00	\$ 10,720.00	\$ 9,000.00	\$ 72,000.00
Alt-A	242	Misc ductwork tie-ins, insulation patch, test & balance	16	LS	\$ 660.00	\$ 10,560.00	\$ 447.00	\$ 7,152.00	\$ 7,500.00	\$ 120,000.00
Alt-A	243	Locate wall mtd t'stat for new HVAC unit	1	EA	\$ 1,375.00	\$ 1,375.00	\$ 559.00	\$ 559.00	\$ 1,200.00	\$ 1,200.00
<b>Electrical</b>										
Alt-A	244	Demolition	1	LS	\$ 1,650.00	\$ 1,650.00	\$ 2,233.00	\$ 2,233.00	\$ 18,000.00	\$ 18,000.00
Alt-A	245	Lighting Fixture Type A, LED type 2x4 w/ dimmer	3	EA	\$ 704.00	\$ 2,112.00	\$ 882.00	\$ 2,646.00	\$ 500.00	\$ 1,500.00
Alt-A	246	Lighting Fixture Type AEM, LED type 2x4 w/ dimmer w/ 90 minute emerg'y backup	1	EA	\$ 1,100.00	\$ 1,100.00	\$ 949.00	\$ 949.00	\$ 900.00	\$ 900.00
Alt-A	247	Lighting Fixture Type B, LED type 2x2 w/ dimmer	4	EA	\$ 990.00	\$ 3,960.00	\$ 559.00	\$ 2,236.00	\$ 800.00	\$ 3,200.00
Alt-A	248	Lighting Fixture Type C, LED type 4" diameter w/ dimmer, downlight	10	EA	\$ 385.00	\$ 3,850.00	\$ 391.00	\$ 3,910.00	\$ 400.00	\$ 4,000.00
Alt-A	249	Lighting Fixture Type D, LED type surface mtd strip	1	EA	\$ 440.00	\$ 440.00	\$ 559.00	\$ 559.00	\$ 500.00	\$ 500.00
Alt-A	250	Fixture supports/seismic bracing	1	LS	\$ 1,200.00	\$ 1,200.00	\$ 4,464.00	\$ 4,464.00	\$ 4,000.00	\$ 4,000.00
Alt-A	251	Lighting fixture controls, switches, occupancy sensors	2	EA	\$ 2,420.00	\$ 4,840.00	\$ 335.00	\$ 670.00	\$ 750.00	\$ 1,500.00
Alt-A	252	Lighting J-box	2	EA	\$ 440.00	\$ 880.00	\$ 280.00	\$ 560.00	\$ 350.00	\$ 700.00

Alt-A	253	Lighting fixture conduit & wiring	228	LF	\$ 22.00	\$ 5,016.00	\$ 6.00	\$ 1,368.00	\$ 50.00	\$ 11,400.00
Alt-A	254	Power panel "A" ( existing ) rework circuits	1	LS	\$ 1,375.00	\$ 1,375.00	\$ 3,906.00	\$ 3,906.00	\$ 3,200.00	\$ 3,200.00
Alt-A	255	Floor boxes w/ power & data	2	EA	\$ 440.00	\$ 880.00	\$ 2,233.00	\$ 4,466.00	\$ 3,200.00	\$ 6,400.00
Alt-A	256	Duplex recpls	10	EA	\$ 385.00	\$ 3,850.00	\$ 335.00	\$ 3,350.00	\$ 225.00	\$ 2,250.00
Alt-A	257	Quad recpls	2	EA	\$ 418.00	\$ 836.00	\$ 503.00	\$ 1,006.00	\$ 250.00	\$ 500.00
Alt-A	258	Conduit & wiring for recpls	100	LF	\$ 27.50	\$ 2,750.00	\$ 17.00	\$ 1,700.00	\$ 15.00	\$ 1,500.00
Alt-A	259	Underfloor conduit/wiring to floor boxes w/ saw cutting-trenching	22	LF	\$ 33.00	\$ 726.00	\$ 56.00	\$ 1,232.00	\$ 300.00	\$ 6,600.00
Alt-A	260	Tel / Data Rough-in @ IDF room, including rack	1	LS	\$ 2,750.00	\$ 2,750.00	\$ 13,393.00	\$ 13,393.00	\$ 8,500.00	\$ 8,500.00
Alt-A	261	Data outlets	10	EA	\$ 330.00	\$ 3,300.00	\$ 280.00	\$ 2,800.00	\$ 150.00	\$ 1,500.00
Alt-A	262	Data raceway & cabling	225	LF	\$ 27.50	\$ 6,187.50	\$ 23.00	\$ 5,175.00	\$ 25.00	\$ 5,625.00
Alt-A	263	Fire Alarm tie in to exist'g panel	1	LS	\$ 1,100.00	\$ 1,100.00	\$ 11,161.00	\$ 11,161.00	\$ 3,000.00	\$ 3,000.00
Alt-A	264	Strobe device, wall mtd	2	EA	\$ 550.00	\$ 1,100.00	\$ 893.00	\$ 1,786.00	\$ 2,800.00	\$ 5,600.00
Alt-A	265	Pull box	1	EA	\$ 495.00	\$ 495.00	\$ 893.00	\$ 893.00	\$ 1,800.00	\$ 1,800.00
Alt-A	266	FA raceway & signal wiring, complete	135	LF	\$ 27.50	\$ 3,712.50	\$ 12.00	\$ 1,620.00	\$ 50.00	\$ 6,750.00
Alt-A	267	Distribution and power to HVAC equipment ( per schedule M-1.0 )	1	LS	\$ 1,100.00	\$ 1,100.00	\$ 11,161.00	\$ 11,161.00	\$ 6,200.00	\$ 6,200.00
					<b>Total Alt A</b>	<b>\$ 188,519.98</b>	<b>Total Alt A</b>	<b>\$ 319,399.00</b>	<b>Total Alt B</b>	<b>\$ 573,072.00</b>
<b>Additive Alternate Bid Item B</b>										
<b>TMC/TOC Elements - Video Management System (VMS)</b>										
Alt-B	300	Furnish, install, and configure CALTRANS - Genetec VMS system (ENTERPRISE) complete including, server, hardware, software, and cables complete.	1	EA	\$ 58,570.00	\$ 58,570.00	\$ 85,027.00	\$ 85,027.00	\$ 73,440.00	\$ 73,440.00
<b>Mobile Application</b>										
Alt-B	301	CVAG Travel Mobile Application Build Fee (One-Time Cost)	1	EA	\$ 210,600.00	\$ 210,600.00	\$ 114,173.00	\$ 114,173.00	\$ 161,250.00	\$ 161,250.00
<b>TMC Elements - Video Display / Video Wall</b>										
Alt-B	302	Furnish and install NEC 55" LED video wall display and assembly	2	EA	\$ 8,455.00	\$ 16,910.00	\$ 3,400.00	\$ 6,800.00	\$ 20,775.00	\$ 41,550.00
Alt-B	303	Furnish and install 55" NEC commercial grade display monitor, internal NUC, and wall mounting assembly complete (Lobby area)	1	EA	\$ 8,455.00	\$ 8,455.00	\$ 3,400.00	\$ 3,400.00	\$ 3,510.00	\$ 3,510.00
					<b>Total Alt B</b>	<b>\$ 294,535.00</b>	<b>Total Alt B</b>	<b>\$ 209,400.00</b>	<b>Total Alt B</b>	<b>\$ 279,750.00</b>
<b>Additive Alternate Bid Item C</b>										
<b>Miscellaneous Unit Costs</b>										
Alt-C	400	Furnish and install Load Switch	50	EA	\$ 170.00	\$ 8,500.00	\$ 89.00	\$ 4,450.00	\$ 60.00	\$ 3,000.00
Alt-C	401	Furnish and install Flash Transfer Relay	50	EA	\$ 175.00	\$ 8,750.00	\$ 94.00	\$ 4,700.00	\$ 60.00	\$ 3,000.00
Alt-C	402	Furnish and install Bus Interface Unit (BIU)	50	EA	\$ 625.00	\$ 31,250.00	\$ 260.00	\$ 13,000.00	\$ 850.00	\$ 42,500.00
Alt-C	403	Furnish and install Flasher	50	EA	\$ 170.00	\$ 8,500.00	\$ 97.00	\$ 4,850.00	\$ 60.00	\$ 3,000.00
Alt-C	404	Furnish and install 242 DC Isolator	50	EA	\$ 200.00	\$ 10,000.00	\$ 108.00	\$ 5,400.00	\$ 80.00	\$ 4,000.00
Alt-C	405	Furnish and install Ground Fault Circuit Interrupter (GFCI) inside traffic signal cabinet	50	EA	\$ 195.00	\$ 9,750.00	\$ 250.00	\$ 12,500.00	\$ 140.00	\$ 7,000.00
					<b>Total Alt C</b>	<b>\$ 76,750.00</b>	<b>Total Alt C</b>	<b>\$ 44,900.00</b>	<b>Total Alt C</b>	<b>\$ 62,500.00</b>
					<b>Total</b>	<b>\$ 19,259,407.04</b>	<b>Total</b>	<b>\$ 21,267,369.04</b>	<b>Total</b>	<b>\$ 21,621,218.00</b>