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**STATE ROUTE 4
BYPASS AUTHORITY**

DATE: October 12, 2006

TO: Board of Directors

FROM: Dale Dennis, Program Manager 

SUBJECT: Approve Segment 1, Construction Package 1, Contract Change Orders Nos. 42 and 43S1.

Recommendation: **APPROVE** Contract Change Orders (CCOs) 42 and 43S1 with Bay Cities Paving and Grading for an estimated cost of \$130,000.00 for Segment 1, Package 1, and **AUTHORIZE** the Secretary or his designee to sign the CCOs.

Discussion:

Contract Change Order 42:

This change compensates the contractor for building a retaining wall on the Laurel Road Extension Project just east of Empire Avenue. This retaining wall is required to protect the property owner's existing water well and pump house. Without the retaining wall, the planned fill slope would have buried the water well and pump house. This work will be paid for as Extra Work at Force Account for an estimated cost of \$35,000.00.

Contract Change Order 43S1:

This change order provides \$95,000.00 in supplemental funds for CCO 43, which overran the original force account estimate. CCO 43 was for the installation of three 610mm PVC sleeves for future sanitary sewer service within the Laurel Road Extension Project.

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ACTION OF BOARD ON _____ APPROVED AS RECOMMENDED _____ OTHER _____

VOTE OF DIRECTORS _____
UNANIMOUS (ABSENT _____)
AYES: _____ **NOES:** _____
ABSENT: _____ **ABSTAIN:** _____

I hereby certify that this is a true and correct copy of an action taken and entered on the minutes of the Board of Directors on the date shown.

ATTESTED _____
Secretary to the Authority

An explanation of the overruns is as follows:

- 1) The Engineer's original estimate assumed that the work would be done with equipment and personnel already on-site. This did not happen and equipment / crews had to be mobilized.
- 2) The work was performed on Saturdays and Sundays in order complete the work prior to FCI/DeSilva Gates starting work on the Laurel Road Extension project which resulted in higher labor costs.
- 3) The Engineer's original estimate underestimated the production rates.
- 4) Due to slippage of the trench slopes, the trench was much wider than planned, which resulted in significantly more roadway reconstruction costs.

Attached is a worksheet, prepared by Parsons Brinckerhoff, which shows a summary of the executed change orders to date, as well as the status of several pending change orders. The source for funding contract changes orders comes from three places: Supplemental funds, Authority-furnished materials and the traditional project contingency. Supplemental funds are set aside by the designer to cover items that are anticipated but are undefined until actual project construction. Authority-furnished materials are items that are needed for the project but excluded from the contractor bids. The contingency is for items not anticipated during the design of the project.

STATE ROUTE 4 BYPASS
SEGMENT 1/ PACKAGE 1
CCO LOG
PROJECT NO. 4660-6X4446



Original Bid Amount \$5,596,581.55
 Other Contract Items \$531,319.35
 Supplemental Funds \$373,500.00
 Authority Furnished Items \$70,000.00
 Contingency \$369,318.00
 Total Available for CCO's \$1,344,137.35
 Total Budget \$5,940,718.90

CCO No.	Description	CT Concurrence	To Contractor	From Contractor	To SR4BA	Date Executed	Date Approved By Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Cost to Date	Remarks
1	Traffic Control	N/A	07/29/04	08/03/04	08/05/04	08/12/04	08/09/04	0	Y		\$20,000.00				\$20,000.00	\$18,257.88	
2	Modify Structural Section to include CTB/ Additional Roadway construction on C-Line 2004.	12/17/2004	12/01/04	12/16/04	12/22/04	01/18/05	01/13/05	0	N	(\$73,817.17)		\$363,707.88		\$30,828.08	\$320,518.58	\$298,511.85	
3	Modify Grading limits required by December 31, 2004.	03/12/04	07/29/04	08/03/04	08/05/04	08/19/04	08/09/04	0	N/A						\$0.00	\$0.00	
4	Modifications for Erosion Control	9/28/2004	08/20/04	09/22/04	09/27/04	10/14/04	10/14/04	0	Y		\$25,000.00				\$25,000.00	\$25,000.00	
481	Create Stepped Slope/Foresh - Modify Erosion Control	12/21/2004	12/23/04	02/16/05	02/18/05	02/24/05	03/10/05	0	N	(\$8,481.45)	\$15,000.00		(\$10,000.00)		(\$8,481.45)	(\$3,481.45)	
482	Place Erosion Control on Slope w/ Hose	3/17/2005	04/06/05	06/22/05	07/09/05	07/19/05	07/14/05	0	N	\$683.00				\$4,708.00	\$5,371.00	\$5,371.00	
483	Supplement for Erosion Control	see above			07/24/06	07/24/06	08/10/06	0	N		\$42,000.00				\$42,000.00	\$35,184.83	
5	Modifications for Electrical Special Provisions	10/12/04	07/29/04	08/09/04	08/15/04	08/20/04	08/09/04	0	N/A						\$0.00	\$0.00	
6	Change Crank Cushion Arrays	7/8/2004	07/28/04	08/03/04	08/05/04	08/12/04	08/09/04	0	N/A					\$0.00	\$0.00	\$0.00	
7	Retaining Wall Dimensions	09/09/2004	09/07/04	11/02/04	11/03/04	11/16/04	01/13/05	0	N/A						\$0.00	\$0.00	
8	Modifications Drainage System #11	02/29/2004	10/01/04	02/28/04	03/02/04	03/28/04	02/24/04	0	N/A				(\$5,000.00)		(\$5,000.00)	(\$5,000.00)	
9	Subgrade Preparation under permeable base at wick drain locations	10/6/2004	08/25/04	08/30/04	08/30/04	08/16/04	08/09/04	0	N		\$10,000.00				\$10,000.00	\$10,000.00	
9S1	Supplement for Subgrade prep under permeable base at wick drain locations	see above			07/24/06	07/24/06	08/09/04	0	N		\$2,000.00				\$2,000.00	\$842.70	
10	Remove Buried Man made objects	8/5/2004	08/25/04	08/30/04	08/30/04	08/19/04	08/09/04	0	N		\$10,000.00				\$10,000.00	\$6,516.37	
11	Regrade Existing Lane Tree Way Fill	8/12/2004	08/30/04	09/22/04	09/27/04	10/14/04	09/09/04	0	N		\$15,000.00				\$15,000.00	\$3,181.59	
12	Deck Segment 1, Package 2 Alignment	N/A	09/16/04	09/22/04	09/27/04	10/14/04	10/14/04	0	N		\$45,000.00				\$45,000.00	\$45,000.00	
12S1	Supplement for SIP2 Alignment	N/A			07/24/06	07/24/06	08/10/06	0	N		\$10,000.00				\$10,000.00	\$8,125.77	
13	Soffit Flue Change	12/18/2004	11/10/04	12/10/04	12/16/04	12/23/04	01/13/05	0	N	\$2,013.99				\$93.10	\$2,367.09	\$2,367.09	re-issued on 12/18/04
14	Temporary Drainage Modifications, TC1 Line	12/17/2004	10/28/04	12/18/04	12/22/04	01/19/05	01/13/05	0	N		\$20,000.00				\$20,000.00	\$7,778.85	
15	Banker Anesthetic Treatment Details	3/21/2005	03/02/05	03/14/05	03/21/05	03/24/05	04/14/05	0	N				\$21,500.00		\$21,500.00	\$21,500.00	
16	TC1 Line MBGR SFT and/or assembly	12/14/2004	11/10/04	12/10/04	12/16/04	12/23/04	01/13/05	0	N			\$1,284.00			\$1,284.00	\$1,284.00	
17	Polishing support for Package 2 Wetlands Mitigation	N/A	11/23/04	12/03/04	12/07/04	12/16/04	01/13/05	0	N		\$2,000.00				\$2,000.00	\$1,002.17	
18	Remove and Dispose Trash/Debris	N/A	11/30/04	12/02/04	12/07/04	12/16/04	01/13/05	0	Y		\$10,000.00				\$10,000.00	\$10,000.00	
18S1	Supplement for Remove and Dispose Trash/Debris	N/A			07/24/06	07/24/06	03/08/05	0	N		\$3,000.00				\$3,000.00	\$1,595.47	
19	Segment 1 Package 2- Remove and Replace Water Line	N/A	02/18/05	02/25/05	02/28/05	03/08/05	03/10/05	0	N		\$150,000.00				\$150,000.00	\$148,572.86	
20	Additional SWPPP Work	N/A	12/20/04	02/15/05	02/15/05	02/24/05	03/10/05	0	Y		\$7,500.00				\$7,500.00	\$7,367.31	

NOTE: When a CCO is Executed/Modified, highlight the row

503