

The Good.

Prj_Nbr	Catg.	LIN	Item Code	Item Description	Quantity	Unit	Unit Price	Net Change
MP05600641101	0001	8001	04895	LOOP SAW SLOT AND FILL	290.000	LF	15.130	\$4,387.70
MP05600641101	0001	8002	04830	LOOP WIRE	1,300.000	LF	0.610	\$793.00
MP05600641101	0001	8003	04829	PIEZOELECTRIC SENSOR	3.000	EACH	1,677.500	\$5,032.50
MP05600641101	0001	8004	04820	TRENCHING AND BACKFILLING	30.000	LF	5.500	\$165.00
MP05600641101	0001	8005	04795	CONDUIT-2 IN	30.000	LF	14.300	\$429.00

**Change Order Amount: \$10,807.20**

**CHANGE ORDER TIME ADJUSTMENT DAYS: 107**

**Time Adjustment Explanation**



Sensor loops to be installed while the Sherman Minton is closed. Change the Specified Date of Completion from 11/15/11 as Specified in the contract to 03/01/12. "A Net Increase of 107 Days." Due to the roadway being closed, there is no benefit in requiring the contractor to have the road open prior to 3/1/2012.

**Explanations That Apply To All Line Items**



Unit Price is justified due to the small quantity of repair locations (1).



(027) This item shall include all labor, equipment, materials and overhead necessary to complete this item of work.



Sensor loops to be installed at location that was damaged during concrete patch repair must be completed prior to opening of the Sherman Minton Bridge. No additional monies will be considered for traffic control or other items associated with the installation of the sensor loops. Contractor is to conform to drawings provided by the Cabinet in regards to installation as well as the current edition of the Standard Specifications and Standard Drawings.

**Explanations That Apply To Specific Line Items**

[8001],[8002],[8003],[8004],[8005] (004) Contract Omission - Extra Work is required as a result of a Contract Omission.

Prj_Nbr	Catg.	LIN	Item Code	Item Description	Quantity	Unit	Unit Price	Net Change
DE00802371132	0001	0010	00001	DGA BASE	-21,500.000	TON	16.000	\$-344,000.00
DE00802371132	0001	0100	00388	CL3 ASPH SURF 0.38B PG64-22	378.000	TON	58.000	\$21,924.00
DE00802371132	0001	0470	06514	PAVE STRIPING-PERM PAINT-4 IN	15,285.000	LF	0.140	\$2,139.90
DE00802371132	0001	8003	02200	ROADWAY EXCAVATION	2,800.000	CUYD	32.970	\$92,316.00
DE00802371132	0001	8004	00214	CL3 ASPH BASE 1.00D PG64-22 (FOR TIE-IN/TURN LANES)	3,282.000	TON	65.000	\$213,330.00
DE00802371132	0001	8005	00001	DGA BASE (FOR TIE-IN/TURN LANES)	1,890.000	TON	24.000	\$45,360.00
DE00802371132	0001	8006	06515	PAVE STRIPING-PERM PAINT-6 IN	7,080.000	LF	0.330	\$2,336.40
DE00802371132	0001	8007	02650	MAINTAIN & CONTROL TRAFFIC (FOR TIE-IN/TURN LANES)	1.000	LS	26,000.000	\$26,000.00
DE00802371132	0003	8008	02568	MOBILIZATION (FOR TIE-IN/TURN LANES)	1.000	LS	4,525.000	\$4,525.00
DE00802371132	0001	8009	00001	DGA BASE (RECYCLED CONCRETE)	10,000.000	TON	14.500	\$145,000.00

**Change Order Amount: \$208,931.30**

### CHANGE ORDER TIME ADJUSTMENT DAYS: 121

#### Time Adjustment Explanation

Extend the Specified Date of Completion from August 3, 2012 as specified in Change Order #1 to November 30, 2012. "A Net Increase of 119 Calendar Days." Based on the cost ratio of the original contract time (\$5,464,791.00 divided by 372 calendar days = \$14,690.30); a time extension of 15 calendar days, \$208,931.30 divided by \$14,690.30 = 14.22, is granted for additional work. Based upon the scope of the work and per Section 108.07.04 of the Standard Specifications, an additional 104 calendar days is granted for additional work. The Contractor shall put forth all effort to complete all contract and change order work by November 30, 2012. However, in order to account for weather, seasonal and temperature limitations that may prevent construction operations during the fall of the year, the contractor shall have 40 working days to complete all remaining contract and change order work. The Engineer will charge all working days that occur, beginning October 1, 2012, in accordance with Section 108.07.02 of the 2008 KYTC Standard Specifications.



#### Explanations That Apply To Specific Line Items

[8003],[8004],[8005],[8006],[8007],[8008],[8009] (027) This item shall include all labor, equipment, materials and overhead necessary to complete this item of work.

[0100],[0470] (006) Contract Item Overrun - Extra Work is required as a result of a Contract Item Overrun.



[8003],[8004],[8005],[8007],[8008],[8009] (004) Contract Omission - Extra Work is required as a result of a Contract Omission.

[8006] (008) Owner Induced Enhancement - Extra Work is required to improve or enhance the project.

[8003],[8004],[8005],[8007],[8009] (015) Itemized cost breakdown supplied by the contractor including equipment, labor materials, and time needed to perform proposed work.

[8006] (014) Cost is less than or equal to 110% of the average unit bid price.



[8008] Prime Contractor Mobilization Cost is equivalent to 1.11% (\$4,525/\$408,002.10) of the total scheduled for Change Order #2. This office concurs with this price for Mobilization for Change Order #2.

[0100] CL3 ASPH SURF 0.38B PG64-22 - This material is to be placed according to the existing applicable Typical Section after the appropriate thickness of base material has been installed. Specifically, an additional quantity of CL3 ASPH SURF 0.38B PG64-22 shall be installed from the existing southern limits of the project south through the intersection of Stephens Elementary School. One copy of supplemental pavement design to be provided to the contractor and one to remain on file at the Section Engineer's office. See related items.

[8003] ROADWAY EXCAVATION - 1420 C.Y. of this material is to be removed along mainline from Sta. 118+20 south for 562 LF to accommodate a full depth asphalt pavement tie-in at the intersection of Stephens Elementary School. This interface should have been the original southern terminus of this project so as to coincide with the northern terminus of the 6YP project slated for letting in

October 2012. After base material was installed, D6 Traffic Operations requested that this project be redesigned to accommodate 8 offset left turn lanes (4 intersections) with flashing yellow signals. The storage for these lanes, once offset, will be on the old raised median sections that were wedged over per plan. In order to meet design criteria, 1380 C.Y. of roadway excavation must be performed along the said medians to allow for the installation of a proper base material. See related items.

**[8005]** DGA BASE (FOR TIE-IN/TURN LANES) - 958 tons of this material is to be placed subgrade (6" lift) in the void created by the Roadway Excavation (Item 8003) along the mainline from Sta. 118+20 south for 562 LF to accommodate a full depth asphalt tie-in at the intersection of Stephens Elementary School. This interface should have been the original southern terminus of this project so as to coincide with the northern terminus of the 6YP project slated for letting in October 2012. D6 Traffic Operations requested that this project be redesigned to accommodate 8 offset left turn lanes (4 intersections) with flashing yellow signals. In order to meet design criteria, 932 tons of DGA (6" lift) must be installed on subgrade in the void created by the Roadway Excavation (Item 8003) along the said medians. One copy of supplemental pavement design to be provided to the contractor and one to remain on file at the Section Engineer's office. See related items.

**[8004]** CL3 ASPH BASE 1.00D PG64-22 (FOR TIE-IN/TURN LANES) - 1664 tons of this material is to be placed atop 6" of DGA in the void created by the Roadway Excavation (Item 8003) along the mainline from Sta. 118+20 south for 562 LF to accommodate a tie-in at the intersection of Stephens Elementary School. This interface should have been the original southern terminus of this project so as to coincide with the northern terminus of the 6YP project slated for letting in October 2012. D6 Traffic Operations requested that this project be redesigned to accommodate 8 offset left turn lanes (4 intersections) with flashing yellow signals. In order to meet design criteria, 1618 tons of CL3 ASPH BASE 1.00D PG64-22 must be installed atop 6" of DGA in the void created by the Roadway Excavation (Item 8003) along the said medians. One copy of supplemental pavement design to be provided to the contractor and one to remain on file at the Section Engineer's office. See related items.

**[0470]** PAVE STRIPING - PERM PAINT - 4 IN - 10,510 LF of 4" Yellow and 4,775 LF of 4" White Permanent paint is scheduled for placement to delineate the 8 offset left turn lanes and to complete striping per the plans on the southern end of the project. See Supplemental Striping sheets for details; one copy to be provided to the contractor and one to remain on file at the Section Engineer's office.

**[8006]** PAVE STRIPING - PERM PAINT - 6 IN - 7080 LF of 6" White Permanent paint is scheduled for placement to delineate the 8 offset left turn lanes. See Supplemental Striping sheets for details; one copy to be provided to the contractor and one to remain on file at the Section Engineer's office.

**[8007]** MAINTAIN & CONTROL TRAFFIC (FOR TIE-IN/TURN LANES)- Traffic and all Traffic Control Devices are to be maintained during the entirety of the work scheduled for Change Order #2. Specifically, the contractor shall provide traffic control for all work items as described herein. See related items.

**[0010]** (020) Contract Item underrun.

**[0010]** DGA BASE - Trenching for underdrain produced embankment material where DGA was specified for shoulders allowing for a substantial underrun in plan quantity.

**[8008]** MOBILIZATION (FOR TIE-IN/TURN LANES) - This item is necessary in order to mobilize equipment, specifically for this extra work which had been removed or was not on project.

~~**[0010],[8009]**~~ DGA BASE (RECYCLED CONCRETE) - In lieu of DGA Base, install recycled concrete along the shoulders of KY 237. The recycled concrete shall meet all DGA material specifications per the 2008 Standard Specifications. This change in material will result in a cost savings to the Department.



The Bad.

Prj_Nbr	Catg.	LIN	Item Code	Item Description	Quantity	Unit	Unit Price	Net Change
MB11990001001	0001	0090	08526	CONC CLASS M FULL DEPTH PATCH	2.370	CUYD	150.000	\$355.50
MB11990001001	0001	0100	08150	STEEL REINFORCEMENT	274.280	LB	2.000	\$548.56
MB11990001001	0001	0260	06550	PAVE STRIPING-TEMP REM TAPE-W	1,215.000	LF	4.000	\$4,860.00
MB11990001001	0001	0300	02562	SIGNS (REVISED: 7-22-10)	140.000	SQFT	6.000	\$840.00
MB11990001001	0001	8001	06551	PAVE STRIPING-TEMP REM TAPE-Y	3,256.000	LF	4.000	\$13,024.00
MB11990001001	0001	8002	06549	PAVE STRIPING-TEMP REM TAPE-B	2,104.000	LF	4.000	\$8,416.00

Change Order Amount: \$28,044.06


CHANGE ORDER TIME ADJUSTMENT DAYS: 0


Time Adjustment Explanation


Contract time is unaffected Specified Date of Completion remains 11/15/10 



Explanations That Apply To Specific Line Items


[0090],[0100],[0260],[0300] (006) Contract Item Overrun - Extra Work is required as a result of a Contract Item Overrun.

[0090],[0100] more full depth patching was required due to poor condition of bridge deck. 

[0260],[0300] due to additional traffic control requirements, additional quantity needed. 

[8001],[8002] No temporary black or yellow was set up on this project 

[8001],[8002] The standard drawing that was used as referenced in the proposal was not applicable to this project , standard drawing TTC-115 was referenced and thus the added quantity of black and yellow removable tape was required.  

[8001],[8002] (016) Cost comparison to the competitive bid contracts in an area or district for items similar to scope of work. 

[8001],[8002] (027) This item shall include all labor, equipment, materials and overhead necessary to complete this item of work.




The Bad.

Prj_Nbr	Catg.	LIN	Item Code	Item Description	Quantity	Unit	Unit Price	Net Change
DE05600650908	0001	8005	02650	MAINTAIN & CONTROL TRAFFIC ADDED for I 265WB to I 65 SB	1.000	LS	44,119.280	\$44,119.28

**Change Order Amount: \$44,119.28**


**CHANGE ORDER TIME ADJUSTMENT DAYS** 

**Explanations That Apply To Specific Line Items** 

 **[8005]** (016) Cost comparison to the competitive bid contracts in an area or district for items similar to scope of work.

**[8005]** (027) This item shall include all labor, equipment, materials and overhead necessary to complete this item of work.

**[8005]** (006) Contract Item Overrun - Extra Work is required as a result of a Contract Item Overrun.

 **[8005]** Maintenance of Traffic for Extra Work at Ramp from I-265W to I-65S.



The Ugly.

Prj_Nbr	Catg.	LIN	Item Code	Item Description	Quantity	Unit	Unit Price	Net Change
MP05600641101	0001	8001	04895	LOOP SAW SLOT AND FILL	290.000	LF	15.130	\$4,387.70
MP05600641101	0001	8002	04830	LOOP WIRE	1,300.000	LF	0.610	\$793.00
MP05600641101	0001	8003	04829	PIEZOELECTRIC SENSOR	3.000	EACH	1,677.500	\$5,032.50
MP05600641101	0001	8004	04820	TRENCHING AND BACKFILLING	30.000	LF	5.500	\$165.00
MP05600641101	0001	8005	04795	CONDUIT-2 IN	30.000	LF	14.300	\$429.00

**Change Order Amount: \$10,807.20**

**CHANGE ORDER TIME ADJUSTMENT DAYS: 78**

**Time Adjustment Explanation**

Piezoelectric Sensor Loops were encountered during the project and need to be put back in.

