

CHANGE ORDER

No. 1 (Final)

DATE OF ISSUANCE November 7, 2011

EFFECTIVE DATE

OWNER	St. Charles Parish Department of Public Works/Wastewater
CONTRACTOR	Fleming Construction Co., LLC
Contract:	Ormond Boulevard Culvert Replacement
Project:	P090204 – Ormond Boulevard Culvert Replacement
OWNER's Contract No.	P090204
ENGINEER:	Volkert, Inc.
	ENGINEER's PROJECT No. 965801.80

You are directed to make the following changes in the Contract Documents:

Description:

1. Delete the Following Work Items:

- | | |
|--|----------------|
| a. Contract Item No. 713-09-00100 – Temporary Portable Barriers (Water Filled) | (\$97,875.00) |
| b. Contract Item No. S-002 - Relocation of Infrastructure | (\$125,000.00) |

Total of Deleted Items (\$222,875.00)

2. Add the Following Work Items:

- | | |
|--|------------|
| a. Contract Item No. S-006 – Barrier Modifications for Rain Events | \$8,902.30 |
| b. Contract item No. S-007 – Erosion Control – Turf Reinforcing Mats | \$4,471.00 |
| c. Contract Item No. NS-300-00060 - Geogrid | \$100.80 |
| d. Contract Item No. 203-01-00100 – General Excavation | \$3,008.00 |
| e. Contract Item No. 203-04-00200 – Non-Plastic Embankment (Sand) | \$216.00 |

Total of Added Work Items \$16,698.10

3. Revise the Following Work Item Quantities:

- | | |
|---|--------------|
| a. Contract Item No. 202-02-06100 – Removal of Concrete Walks and Drives | (\$27.00) |
| b. Contract Item No. 202-02-32100 – Removal of Pipe (Cross Drain) (60" CMP) | (\$440.00) |
| c. Contract Item No. 202-02-32120 – Removal of Pipe (Side Drain) (24" RCP & 18" RCP) | (\$1,160.00) |
| d. Contract Item No. 202-02-38500 – Removal of Surfacing and Stabilized Base | \$266.00 |
| e. Contract Item No. 203-08-00100 – Geotextile Fabric | \$459.80 |
| f. Contract Item No. 204-06-00100 – Temporary Silt Fencing | (\$189.00) |
| g. Contract Item No. 302-02-02100 – Class II Base Course (6" Thick) (Stone or RcyI PCC) | \$9,902.50 |
| h. Contract Item No. 302-02-06120 – Class II Base Course (12" Thick)(Stone or RcyI PCC) | (\$28.00) |
| i. Contract Item No. 402-01-00100 – Traffic Maintenance Aggregate | (\$2,000.00) |
| j. Contract Item No. 502-01-00100 – Superpave Asphaltic Concrete | \$10,865.50 |
| k. Contract Item No. 509-01-00100 – Cold Planing Asphaltic Concrete | (\$45.00) |
| l. Contract Item No. 701-03-01040 – Storm Drain Pipe (24" RCP) | (\$5,760.00) |
| m. Contract Item No. 702-04-00100 – Adjusting Manholes | \$2,899.18 |
| n. Contract Item No. 706-02-00200 – Concrete Drive (6" Thick) | (\$221.00) |
| o. Contract Item No. 711-01-03000 – Rip Rap | \$2,552.00 |
| p. Contract Item No. 713-02-00100 – Temporary Pavement Markings (4" Width) | \$390.60 |
| q. Contract Item No. 713-06-00100 – Temp. Reflectorized Raised Pavement Markers | (\$1,420.80) |
| r. Contract Item No. 713-07-00100 – Temporary Precast Concrete Barrier (Cont. Furn.) | \$51,000.00 |
| s. Contract Item No. 713-10-00100 – Temporary Precast Barrier Movement | \$6,450.00 |
| t. Contract Item No. 714-01-00600 – Slab Sodding (St. Augustine) | \$406.00 |
| u. Contract Item No. 715-01-00100 – Topsoil | (\$648.00) |
| v. Contract Item No. 726-01-00100 – Bedding Material | (\$1,456.00) |
| w. Contract Item No. 729-01-00100 – Sign (Type A) | \$27.84 |
| x. Contract Item No. 732-01-01000 – Plastic Pavement Striping (4" Width) (Thermo 90) | \$27.75 |
| y. Contract Item No. 732-01-01020 – Plastic Pavement Striping (6" Width) (Thermo 90) | (\$42.90) |
| z. Contract Item No. 732-05-00100 – Removal of Existing Markings | \$184.80 |
| aa. Contract Item No. 739-01-00100 – Hydroseeding | (\$1,689.60) |

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bb. Contract Item No. 741-01-01140 – Water Main (12" PVC)	(\$930.00)
cc. Contract Item No. 741-01-02080 – Water Main (12" Ductile Iron)	(\$880.00)
dd. Contract Item No. 805-02-00200 – Class A(M) Concrete (Footings)	(\$5,900.00)
ee. Contract Item No. 806-01-00100 – Deformed Reinforcing Steel	(\$56.70)
ff. Contract Item No. NS-700-00180 – Impact Attenuator (Construction Zone)	\$30,956.00
gg. Contract Item No. NS-700-00181 – Impact Attenuator Relocation (Construction Zone)	\$2,160.00

Total Change in Work Item quantities (\$95,653.97)

TOTAL CHANGE IN PROJECT COST **(\$110,522.93)**

Reason for Change Order:

1. Deleted Work Items

- a. The water filled barriers specified were changed to precast concrete barriers to increase safety and reduce risk to traveling public through the work zone.
- b. The relocation of the infrastructure item in the bid was not used during the construction.

2. Add Work Items

- a. The concrete barriers and impact attenuators were modified at the canal crossing in order to allow water to flow freely across the roadway and work zone during a major rain event.
- b. Turf reinforcing mats were added along the slopes in front of the four wing walls of the culvert structure in order to prevent erosion and scouring.
- c. Geogrid was added into the traffic maintenance aggregate near 2416 Ormond Blvd. due to unsuitable soil conditions near an existing telecommunications manhole.
- d. Additional general excavation was required to install additional temporary asphaltic pavement in order to accommodate traffic shifts and maintenance of traffic through the work zone.
- e. Sand fill was used to backfill areas of unsuitable soil which were mucked out near a telecommunications manhole near 2416 Ormond Blvd. See also item 2c above.

3. Revise Work Item Quantities

- a. Contract Item No. 202-02-06100 – Removal of Concrete Walks and Drives
This item was reduced in cost due to actual quantity of driveways removed during construction.
- b. Contract Item No. 202-02-32100 – Removal of Pipe (Cross Drain) (60" CMP)
This item was reduced in cost due to actual quantity of culverts removed during construction.
- c. Contract Item No. 202-02-32120 – Removal of Pipe (Side Drain) (24" RCP & 18" RCP)
This item was reduced in cost due to revisions made to the storm drainage which required less pipe to be removed than what was included in the contract.
- d. Contract Item No. 202-02-38500 – Removal of Surfacing and Stabilized Base
This item increased in cost due to additional quantity of roadway removal required, which was not accounted for in the contract.
- e. Contract Item No. 203-08-00100 – Geotextile Fabric
This item increased in cost due to additional temporary asphalt paving required to facilitate traffic through the work zone while maintaining proper detour lane widths for all traffic shifts.
- f. Contract Item No. 204-06-00100 – Temporary Silt Fencing
This item decreased in cost due to actual quantity of silt fencing installed during construction.
- g. Contract Item No. 302-02-02100 – Class II Base Course (6" Thick) (Stone or RcyI PCC)
This item increased in cost due to additional temporary asphalt paving required to facilitate traffic through the work zone while maintaining proper detour lane widths for all traffic shifts.
- h. Contract Item No. 302-02-06120 – Class II Base Course (12" Thick)(Stone or RcyI PCC)
This item decreased in cost due to actual quantity of 12" Class II Base Course installed during construction.
- i. Contract Item No. 402-01-00100 – Traffic Maintenance Aggregate
This item decreased in cost due to actual quantity of traffic maintenance aggregate required during construction.
- j. Contract Item No. 502-01-00100 – Superpave Asphaltic Concrete
This item increased in cost due to additional temporary asphalt paving required to facilitate traffic through the work zone while maintaining wider detour lane widths for all traffic shifts.
- k. Contract Item No. 509-01-00100 – Cold Planing Asphaltic Concrete
This item decreased in cost due to actual quantity of cold planning during construction.

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- i. Contract Item No. 701-03-01040 – Storm Drain Pipe (24" RCP)
This item decreased in cost due to actual quantity of new 24" RCP storm drainage pipe required based on the re-configuration of the storm drainage.
- m. Contract Item No. 702-04-00100 – Adjusting Manholes
This item increased in cost due to two (2) additional manholes which required adjusting to meet new project grades.
- n. Contract Item No. 706-02-00200 – Concrete Drive (6" Thick)
This item decreased in cost due to actual quantity of driveway installed during construction.
- o. Contract Item No. 711-01-03000 – Rip Rap
This item increased in cost due to actual quantity of rip rap installed during construction. Additional rip rap was installed at the outfall of the culvert to prevent erosion and scouring.
- p. Contract Item No. 713-02-00100 – Temporary Pavement Markings (4" Width)
This item increased in cost due to additional temporary pavement striping needed to facilitate traffic through the work zone during construction.
- q. Contract Item No. 713-06-00100 – Temp. Reflectorized Raised Pavement Markers
This item decreased in cost due to actual quantity of temporary raised pavement markers installed during construction.
- r. Contract Item No. 713-07-00100 – Temporary Precast Concrete Barrier (Cont. Furn.)
This item increased in cost due to the change noted in item 1a above. The previously noted water filled barriers were replaced with precast concrete barriers to increase safety for traffic through the work zone.
- s. Contract Item No. 713-10-00100 – Temporary Precast Barrier Movement
This item increased in cost due to item 3r (above). Additional precast concrete barriers required additional movement of concrete barriers.
- t. Contract Item No. 714-01-00600 – Slab Sodding (St. Augustine)
This item increased in cost due to additional slab sodding required during construction which was not accounted for in the project plans.
- u. Contract Item No. 715-01-00100 – Topsoil
This item decreased in cost due to actual quantity of topsoil installed onsite during construction.
- v. Contract Item No. 726-01-00100 – Bedding Material
This item decreased in cost due to less storm drainage being installed onsite. See item 3l (above).
- w. Contract Item No. 729-01-00100 – Sign (Type A)
This item increased in cost due to actual quantity of signage installed onsite. Project plan quantities were incorrect.
- x. Contract Item No. 732-01-01000 – Plastic Pavement Striping (4" Width) (Thermo 90)
This item increased in cost due to additional striping installed as directed by the Engineer.
- y. Contract Item No. 732-01-01020 – Plastic Pavement Striping (6" Width) (Thermo 90)
This item decreased in cost due to actual quantity of 6" striping installed onsite.
- z. Contract Item No. 732-05-00100 – Removal of Existing Markings
This item increased in cost due to additional striping which was required by the Engineer to be removed prior to start of traffic shifts.
- aa. Contract Item No. 739-01-00100 – Hydroseeding
This item decreased in cost due to actual quantity of hydroseeding required during construction.
- bb. Contract Item No. 741-01-01140 – Water Main (12" PVC)
This item decreased in cost due to actual length of water main installed. Less water main length was removed during construction, resulting in less pipe length to be re-installed.
- cc. Contract Item No. 741-01-02080 – Water Main (12" Ductile Iron)
This item decreased in cost due to actual length of water main installed. Less water main length was removed during construction, resulting in less pipe length to be re-installed.
- dd. Contract Item No. 805-02-00200 – Class A(M) Concrete (Footings)
This item decreased in cost due to actual neat quantities of concrete placed for the foundation of the precast bridge culvert.
- ee. Contract Item No. 806-01-00100 – Deformed Reinforcing Steel
This item decreased in cost due to actual steel provided as determined by the approved shop drawings for the reinforcing steel.
- ff. Contract Item No. NS-700-00180 – Impact Attenuator (Construction Zone)
This item increased in cost due to the change in barriers from water filled to precast concrete barriers (see no. 1a above). Impact attenuators are not required on water filled barriers but are required for precast concrete barriers.
- gg. Contract Item No. NS-700-00181 – Impact Attenuator Relocation (Construction Zone)
This item increased in cost due to item no. 3ff above. Additional attenuators required additional relocations.

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4. Contract Time

Total of 37 calendar days were added to the project. (23 rain days, 4 days adverse site conditions, 6 days due to additional work, and 4 days due to third party delay)

- 3 days due to pouring Cast-in-place manholes, which was a change from precast manholes to allow re-route of subsurface drain in median
- 2 days to raise two (2) additional manholes to allow re-route of subsurface drain in median
- 1 day due to lost time from re-design of storm drain re-route in median
- 3 days due to delay of pricing approval by third party utility (AT&T) for removal of a driveway so they could install new conduit.
- 1 day to install vertical offset in water main
- 4 days rain days during the month of June 2011
- 1 day adverse site conditions during the month of June 2011
- 19 days rain days during the month of July 2011
- 3 days adverse site conditions during the month of July 2011

Attachments:

CCD No. 1 – 3/25/11

CCD No. 2 – 5/2/11

CCD. No. 3 – 5/11/11

Fleming documentation for barrier modifications – 7/25/11

Fleming documentation for turf reinforcing mats – 9/14/11

Fleming time extension request – multiple items – 8/25/11

Fleming time extension request – Month of June 2011 – 7/7/11

Fleming time extension request – Month of July 2011 – 8/8/11

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CHANGE IN CONTRACT PRICE:
Original Contract Price \$1,848,179.00
Net Increase (Decrease) from previous Change Orders No. ___ to ___: \$0.00
Contract Price prior to this Change Order: \$1,848,179.00
Net increase (decrease) of this Change Order: (\$110,522.93)
Contract Price with all approved Change Orders: \$1,737,656.07

CHANGE IN CONTRACT TIMES:
Original Contract Times: Substantial Completion: July 26, 2011 Ready for final payment: 45 days
Net change from previous Change Orders No. ___ to No. ___: Substantial Completion: 0 Ready for final payment: 0
Contract Times prior to this Change Order: Substantial Completion: July 26, 2011 Ready for final payment: 45 days
Net increase (decrease) this Change Order: Substantial Completion: September 1, 2011 Ready for final payment: 0 days
Contract Times with all approved Change Orders: Substantial Completion: September 1, 2011 Ready for final payment: 45 days

RECOMMENDED:

By: [Signature]
 ENGINEER (Authorized Signature)

APPROVED:

By: [Signature]
 OWNER (Authorized Signature)

ACCEPTED:

By: [Signature]
 CONTRACTOR (Authorized Signature)

Date: 11-7-11

Date: 11/22/11

Date: 11/9/11

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Prepared by the Engineers Joint Contract Documents Committee and endorsed by The Associated General Contractors of America and the Construction Specifications Institute.