

CHATHAM COUNTY PURCHASING & CONTRACTING DEPARTMENT

ADDENDUM NO. 3 TO 10-11-1-4

FOR: Pipemakers Canal - Phase II - Section I - Drainage Improvements

PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

SEE ATTACHED SHEETS (4 sheets) FOR RESPONSES TO QUESTIONS RECEIVED


REMOVE CURRENT BID SHEETS AND REPLACE WITH THE ATTACHED *REVISED* BID SHEETS (11 SHEETS)

THE BID OPENING REMAINS: 2PM, JULY 7, 2010

NOTE: THIS WILL BE THE FINAL ADDENDUM FOR THIS PROJECT.

THE BIDDER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.

7-2-10
DATE



ROBERT E. MARSHALL
SENIOR PROCUREMENT SPECIALIST
CHATHAM COUNTY

Bid # 10-11-1-4
Pipemakers Canal Phase II Section 1 Drainage Improvements

BID ADDENDUM #3

1. Question: Please clarify what costs are to be included in base bid item 34 Special Conditions.

Answer: This pay item is now pay item 35 on the revised bid schedule that was sent out as part of Addendum #2. Revised bid forms have been included with this addendum to include a pay item for special conditions in add alternate 1 and add alternate 2. The following is a list of generally described items that should be included for this pay item which is found in sections 01500, 01600, and 01650 of the specifications.

- Perform all items outlined under erosion and sediment control in section 01500 (NOI, NOT, inspections, etc.).
- All work associated with using available lands and county owned properties for lay down areas in section 01500 (clearing, erosion control, etc.).
- Any items necessary to meet the requirements outlined in the Special Conditions from Property Acquisition in section 01500.
- Obtain permits to perform work in GDOT rights of ways.
- Clearing at 200' intervals for canal surveys
- Any items necessary to meet requirements outlined in section 01600 (traffic control, submittals, etc.).
- Any items outlined to meet requirements outlined in section 01650.
- Locate, expose and cover the existing forcemain as outlined in item 9 of this addendum.

2. Question: In the footprint of the canal access roads would it be acceptable to cut trees off flush with the ground and leave the stumps in place and build the access road on top of the stumps? This would add strength to the subgrade and should reduce demucking/select backfill.

Answer: It will be acceptable to cut trees off flush with the ground and leave the stumps in place. This will allow for undisturbed earth under the access roads as shown on the construction plans. Removal of stumps shall be at the direction of the engineer or owner.

3. Question: There appears to be two sections labeled 01500 in the contract documents.

Answer: The section titled "Project Description and Special Conditions" is section 01500. The section titled "Supplemental Special Conditions" is section 01600. Section 01650 that is currently titled "Supplemental Special Conditions" will now be titled and referred to "Additional Supplemental Special Conditions"

4. Erosion Control Inspections: Erosion control inspections that are outlined in section 01500 of the specifications shall be performed by an independent inspection firm that is hired by the contractor. Personnel that perform the inspections shall have current certification from the Georgia Soil and Water Conservation Commission to perform erosion and sediment control inspections. Copies of inspection reports shall be provided to the engineer and owner.
5. Attached are revised bid forms for the project dated June 30, 2010. These bid forms shall replace the bid forms issued in addendum #2.
6. Final site grading: Contractor's placement of fill price shall include finish grading as necessary to ensure positive drainage behind the access rods along the canal.
7. Channel Liner Clarification: The specification for the channel liner that is to be installed between stations 0+15 to 4+50 and stations 4+91 to 6+00 is in section 01650 of the specifications. The liner shall be 6 inches thick when filled with grout as outlined in section 01650 and the detail on sheet 16 of the construction plans. The liner shall be installed in accordance with the detail on sheet 16 and as outlined in section 01650 of the specifications.

8. Question: Can the forcemain cannot be taken out of service.

Answer: Addendum #2 states that the forcemain cannot be taken out of service.

9. Question: Explain why the drawing on sheet 17 indicates the line to be reconnected with a sleeve.

Answer: Any relocated line will be reconnected to the existing line with a sleeve as shown on the drawings.

10. Question: How do we connect with a sleeve if the line is not to be taken out of service?

Answer: Line stopples will be required in order to make the connections to the existing line without interruption of service.

11. Question: How many bid items are for 14" and how many for 16"?

Answer: All forcemain relocation work that has to be performed in Add Alternates 1 and 2 is 14". Any forcemain relocation work in the base bid between stations 122+00 to 111+12.82 and stations 11+27.39 to 7+25+ is 14". Any forcemain work between stations 7+25+ to 6+00 and stations 99+00 to 75+00 is 16". The bid schedule has been revised to show the pipe sizes.

12. Question: It would seem that the per each bid items for storm line conflicts with the forcemain would require line stopples and tapping sleeves and valves, two sets at each location. Is there another approach besides line stops and tapping sleeves and valves that will be accepted in relocating the lines in conflict?

Answer: The force main must remain in service at all times. The project shall be bid using line stopples to make connections to the existing forcemain.

13. Question: Bid items total more than 3000 feet of forcemain lines to be moved if in conflict with the excavation. This also may require line stops and tapping sleeves and valves to perform this work. Again the question: Is there another way to interrupt the lines besides the line stop approach?

Answer: At this time there is no other approach that will be accepted. The project shall be bid using line stopples to make the connections to the existing forcemain.

14. Question: To bid the forcemain moving on the per foot basis requires knowledge of the number of places it must be relocated in order to calculate the number of line stops and tapping sleeves and valves. How many locations should the bidders include in the per foot bid items in order to price the stops and valves?

Answer: The bid schedule has been revised to include connections to the existing forcemain using line stopples, tapping sleeves, and valves.

15. Question: To better understand my concern each end of the each service interruption or relocation requires more than \$18,000 dollars in a line stop and a tapping sleeve and valve. I see the possibility of doing this 86 times considering the per each storm line conflicts and 100 foot intervals of relocation on the per foot relocation item.

Answer: Chatham County does not see the possibility of having to line stop the forcemain 86 times. The bid schedule has been revised accordingly to provide additional bid items for the forcemain relocation work. All bidders shall submit pricing based on the quantities shown in the bid schedule.

16. Question: Please consider adding bid items for the line stops and tapping sleeves and valves or specify an approach to interrupting the line flow to use the drawing that indicates sleeves.

Answer: The bid schedule has been revised accordingly. The project shall be bid using line stopples to make connections to the existing forcemain.

17. Forcemain Relocation Clarification: Chatham County plans to relocate as little of the existing forcemain as possible. The details on the construction plans and pay items in the bid schedule will only be utilized if the forcemain is found to be in conflict with the proposed canal improvements and if the proposed improvements cannot be field adjusted around the existing forcemain. Forcemain relocation work will only be performed at the direction of Chatham County. At the beginning of construction, the contractor that is awarded the project will pothole the forcemain between stations 164+00 to 76+40.08 for the owner to determine the forcemain's location and depth. The cost to locate, pothole and cover the forcemain shall be part of the contractors price for special conditions in the base bid, add alternate 1 and add alternate 2. The following is a breakdown of the number of holes that will be dug in each area:

- Base Bid: Up to 15 holes
- Add Alternate 1: Up to 8 holes
- Add Alternate 2: Up to 10 holes

The forcemain relocation work shall be bid based on the quantities shown in the revised bid schedule. The cost per linear foot shall include all materials, fittings, up to 12" of stone bedding, and any other items needed to relocate the forcemain away from the canal widening or under a pipe as shown on sheet 17. The per each price for the connections to the existing forcemain shall include one pair of in line stopples, valves, tapping sleeves, and up to 200 feet of bypass line between the two stopples. This cost shall also include any other items needed (fittings etc. to make the connection between the stopples. For pipe relocations in excess of 200 feet in length, two pairs of stopples (1 pair at each end of the pipe) shall be used to make the reconnection. The line stopples shall be Hydra Stop or approved equal. Shop drawings of all line stopple equipment will be required.

18. Question: At what point in time will the Alternates be awarded, if they are to be a part of the contract? Will it be at the same time the base bid is awarded?

Answer: The add alternates accepted by the County will be incorporated into the awarded contract.

PIPEMAKER'S CANAL PHASE 2, SECTION 1
EMC PROJECT NO. 00-0153
BASE BID SCHEDULE

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Page 1 Revised 6-30-2010

Base Bid: Canal Widening					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Mobilization (Less than 2% of Job)	JOB	LS		
2	Earthwork				
	2A. Excavation and Disposal	48,840	CY		
	2B. Select, Fill, in place	16,900	CY		
3	Clearing and Grubbing	14.60	ACRES		
				SUBTOTAL	
B. EROSION CONTROL					
4	Silt Fence	23,650	LF		
5	Rip Rap	200	SY		
6	Construction Exits	2	EA		
7	Jute mesh	18,560	SY		
8	Grassing	35,700	SY		
9	6" Revetment liner for slope protection	6,600	SY		
10	Maintenance of Erosion Control	JOB	LS		
11	Deduction for non-conformance with sediment and erosion control requirements. The actual deduction shall be calculated based on the number of daily occurrences of non-compliance	0	EA	-\$300.00	
				SUBTOTAL	
C. STORM DRAINAGE					
12	18" RCP	72	LF		
13	24" RCP	164	LF		
14	30" RCP	124	LF		
15	42" RCP	48	LF		
16	48" RCP	48	LF		
17	18" Headwall	2	EA		
18	24" Headwall	4	EA		
19	30" Headwall	3	EA		
20	Remove and Replace unsuitable material as directed by the Engineer	2,100	CY		
				SUBTOTAL	
D. MISCELLANEOUS ITEMS					
21	Relocate existing telephone pole near Sta. 3+00	JOB	LS		
22	Remove and relocate (3) existing power poles near Sta. 99+00	JOB	LS		
23	Install filter fabric under access road	26,200	SY		
24	6" Access road stone base with filter fabric	13,100	SY		
25	Geogrid under access road (Tensar BX 1200)	61,400	SY		
26A.	Demucking as directed by the Engineer	13,000	CY		
26B.	Select fill in place as result of demucking as directed by the engineer in item 26 A	13,000	CY		

Base Bid: Canal Widening		Page 2			
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
27	Install rip rap over Cable TV line at Sta. 99+00	215	SY		
28	Construction Staking for the project.	JOB	LS		
29	Remove 480 LF of chain link fence between Sta. 112+00 and 4+50	JOB	LS		
30	Install 598 LF of chain link fence between Sta. 112+00 and 4+50	598	LF		
31	Install chain link gate at access road from Export Blvd. near sta. 117+00	JOB	LS		
32	Perform work in CSX RW at Sta. 122+00	JOB	LS		
33	Relocate 14" forcemain if it is found to be in conflict with the canal widening	1500	LF		
34	Relocate 16" forcemain if it is found to be in conflict with the canal widening.	2400	LF		
35	Connect to existing 14" forcemain with in line stopple	4	EA		
36	Connect to existing 16" forcemain with in line stopple	4	EA		
37	Special conditions	JOB	LS		
				SUBTOTAL	
SUB TOTAL BASE BID CANAL WIDENING					

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Revised 6-30-2010

Base Bid: Daniel Street Access Road

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Earthwork				
	1A. Excavation and Disposal	200	CY		
	1B. Select Fill, in place	1,000	CY		
2	Clearing and Grubbing	0.33	ACRES		
SUBTOTAL					
B. EROSION CONTROL					
3	Silt Fence	1,420	LF		
4	Construction Exits	1	EA		
5	Maintenance of Erosion Control	JOB	LS		
6	Grassing	1,600	SY		
7	Jute Mesh	800	SY		
8	Installation of Rip Rap	10	SY		
SUBTOTAL					
C. MISCELLANEOUS					
9	6" Access road stone base with filter fabric	750	SY		
10	Geogrid under access road (Tensar BX 1200)	3900	SY		
11	Filter Fabric Under Road Embankment	1,600	SY		
SUBTOTAL					
SUB TOTAL BASE BID DANIEL STREET ACCESS ROAD					

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Revised 6-30-2010

Base Bid: Highway 21 Access

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Earthwork: Includes excavation fill and grading	JOB	LS		
2	Clearing and Grubbing	0.50	ACRES		
				SUBTOTAL	
B. EROSION CONTROL					
3	Silt Fence	1,440	LF		
4	Construction Exits	3	EA		
5	Maintenance of Erosion Control	JOB	LS		
6	Grassing	2,420	SY		
7	Jute Mesh	670	SY		
8	Installation of Rip Rap	80	SY		
9	Inlet Sediment Traps	2	EA		
				SUBTOTAL	
C. MISCELLANEOUS					
10	24" RCP	87	LF		
11	36" RCP	150	LF		
12	24" FES	2	EA		
13	36" FES	1	EA		
14	24" Headwall	1	EA		
15	36" Headwall	1	EA		
16	Grate Inlet	1	EA		
17	Ditch Inlet	1	EA		
18	1.25" 9.5mm Super Pave	75	SY		
19	2" 19mm Superpave	75	SY		
20	5" 25mm Superpave	75	SY		
21	8" Graded Aggregate Base	75	SY		
22	8 Ft. Chain Link Fence	320	LF		
23	4 Ft. Wire Fence	150	LF		
24	24 Ft. Farm Gate	1	EA		
25	20 Ft. Farm Gate	1	EA		
26	6" Access road stone base with filter fabric	1,600	SY		
27	Geogrid under access road (Tensar BX 1200)	4,800	SY		
28	Filter Fabric Under Road Embankment	1,600	SY		
				SUBTOTAL	
SUB-TOTAL BASE BID HIGHWAY 21 ACCESS					

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Revised 6-30-2010

Base Bid: Parcel No. 23 Access Road				
A. SITEWORK				
1	Clearing and Grubbing	0.90	ACRES	
2	Earthwork			
	2A. Select Fill, in place	250	CY	
				SUBTOTAL
B. EROSION CONTROL				
3	Silt Fence	1,000	LF	
4	Construction Exits	1	EA	
5	Maintenance of Erosion Control	JOB	LS	
6	Grassing	1,000	SY	
7	Jute Mesh	500	SY	
				SUBTOTAL
C. MISCELLANEOUS				
8	6" Access road stone base with filter fabric	4,400	SY	
9	Filter Fabric Under Road Embankment	4,400	SY	
				SUBTOTAL
SUB TOTAL BASE BID PARCEL NO. 23 ACCESS ROAD				

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Revised 6-30-2010

Base Bid: Parcel 1 Access Road

A. SITEWORK				
1	Clearing and Grubbing	0.37	ACRES	
2	Earthwork			
	2A. Select Fill, in place	525	CY	
				SUBTOTAL
B. EROSION CONTROL				
3	Silt Fence	1,100	LF	
4	Construction Exits	1	EA	
5	Maintenance of Erosion Control	JOB	LS	
6	Grassing	1,790	SY	
7	Installation of Rip Rap	25	SY	
				SUBTOTAL
C. MISCELLANEOUS				
8	6" Access road stone base with filter fabric	700	SY	
9	Filter Fabric Under Road Embankment	1,175	SY	
10	Geogrid under access road (Tensar Bx 1200)	1,175	SY	
11	48" CMP	35	LF	
12	24 Ft. Farm Gate	1	EA	
				SUBTOTAL
SUB TOTAL BASE BID PARCEL NO. 1 ACCESS ROAD				

Base Bid: Reach 1 Sta. 75+00 to Sta. 122+00

Revised 6-30-2010

Base Bid: Parcel 28 Access Road From Export Blvd.

A. SITEWORK				
1	Clearing and Grubbing	0.30	ACRES	
2	Grading: Placement of fill in roadside ditch and grading as needed for positive drainage with in the Export Blvd. RW and along the access road.	JOB	LS	
				SUBTOTAL
B. EROSION CONTROL				
3	Silt Fence	800	LF	
4	Construction Exits	1	EA	
5	Maintenance of Erosion Control	JOB	LS	
6	Grassing	1,452	SY	
7	Installation of Rip Rap	20	SY	
8	Inlet Sediment Trap	1	EA	
				SUBTOTAL
C. MISCELLANEOUS				
9	6" Access road stone base with filter fabric	775	SY	
10	29"x45" ERCP	40	LF	
11	30" RCP	40	LF	
12	29"x45" Headwall	1	EA	
13	30" Headwall	1	EA	
14	Grate Inlet	1	EA	
15	Relocate Power Pole	1	EA	
16	Traffic Control along Export Blvd.	JOB	LS	
				SUBTOTAL
SUB TOTAL BASE BID PARCEL NO. 28 ACCESS ROAD				

PIPEMAKER'S CANAL PHASE 2, SECTION 1

EMC PROJECT NO. 00-0153

ADD ALTERNATE 1 BID SCHEDULE

Add Alternate 1: Reach 2 Sta. 122+00 to Sta. 140+00

Revised 6-30-2010

Add Alternate 1: Canal Widening					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Mobilization (Less than 2% of Job)	JOB	LS		
2	Earthwork				
	2A. Excavation and Disposal	19,350	CY		
	2B. Select, Fill, in place	4,400	CY		
3	Clearing and Grubbing	7.00	ACRES		
				SUBTOTAL	
B. EROSION CONTROL					
4	Silt Fence	10,860	LF		
5	Rip Rap	10	SY		
6	Construction Exits	1	EA		
7	Jute mesh	9,650	SY		
8	Grassing	16,800	SY		
9	Maintenance of Erosion Control	JOB	LS		
				SUBTOTAL	
C. STORM DRAINAGE					
10	18" RCP	40	LF		
11	18" Headwall	1	EA		
12	Remove and Replace unsuitable material as directed by the Engineer	100	CY		
				SUBTOTAL	
D. MISCELLANEOUS ITEMS					
13	Install filter fabric under access road	12,000	SY		
14	6" Access road stone base with filter fabric	6,010	SY		
15	Geogrid (Tensar BX 1200)	28,300	SY		
16A	Demucking as directed by the Engineer	5,600	CY		
16B	Select fill in place as result of demucking as directed by the engineer in item 16 A	5,600	CY		
17	Perform work in Norfolk Southern RW at Sta. 139+00	JOB	LS		
18	Construction Staking for the project.	JOB	LS		
19	Raise Air Release Valve Manhole at Sta. 136+00	JOB	LS		
20	Relocate 14" forcemain if it is found to be in conflict with the canal widening	1500	LF		
21	Connect to existing 14" forcemain with in line stopple	4	EA		
22	Special Conditions	JOB	LS		
				SUBTOTAL	
SUB TOTAL ADD ALTERNATE 1 CANAL WIDENING					

Add Alternate 1: Reach 2 Sta. 122+00 to Sta. 140+00

Revised 6-30-2010

Add Alternate 1: Parcel No. 36 Access Road

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Earthwork				
	1A. Select Fill, In place	3,240	CY		
2	Clearing and Grubbing	1.00	ACRES		
				SUBTOTAL	
B. EROSION CONTROL					
3	Silt Fence	3,500	LF		
4	Construction Exits	1	EA		
5	Maintenance of Erosion Control	JOB	LS		
6	Grassing	4,840	SY		
7	Jute Mesh	3,110	SY		
8	Installation of Rip Rap	36	SY		
				SUBTOTAL	
C. MISCELLANEOUS					
9	Class IV 24" RCP	28	LF		
10	Class III 24" RCP	80	LF		
11	24" Headwall	2	EA		
12	24" FES	2	EA		
13	6" Access road stone base with filter fabric	2,200	SY		
14	Geogrid under access road (Tensar BX 1200)	10,850	SY		
15	Filter Fabric Under Road Embankment	4,850	SY		
				SUBTOTAL	
SUB TOTAL ADD ALTERNATE 1 PARCEL NO. 36 ACCESS ROAD					

PIPEMAKER'S CANAL PHASE 2 SECTION 1
EMC PROJECT NO. 00-0153
ADD ALTERNATE 2 BID SCHEDULE

Add Alternate 2: Reach 3 Sta. 140+00 to Sta. 215+00

Revised 6-30-2010

Add Alternate 2: Canal Widening					
ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	TOTAL PRICE
A. SITEWORK					
1	Mobilization (Less than 2% of Job)	JOB	LS		
2	Earthwork				
	2A. Excavation and Disposal	88,810	CY		
	2B. Select, Fill, in place	20,760	CY		
3	Clearing and Grubbing	27.65	ACRES		
				SUBTOTAL	
B. EROSION CONTROL					
4	Silt Fence	45,000	LF		
5	Rip Rap	480	SY		
6	Construction Exits	3	EA		
7	Jute mesh	36,880	SY		
8	Grassing	67,500	SY		
9	Maintenance of Erosion Control	JOB	LS		
				SUBTOTAL	
C. STORM DRAINAGE					
10	18" RCP	232	LF		
11	24" RCP	40	LF		
12	36" RCP	48	LF		
13	42" RCP	88	LF		
14	48" RCP	52	LF		
15	54" RCP	52	LF		
16	18" Headwall	6	EA		
17	24" Headwall	1	EA		
18	36" Headwall	1	EA		
19	Remove and Replace unsuitable material as directed by the Engineer	1,100	CY		
				SUBTOTAL	
D. MISCELLANEOUS ITEMS					
20	Install filter fabric under access road	50,000	SY		
21	6" Access road stone base with filter fabric	25,000	SY		
22	Geogrid (Tensar BX 1200)	117,500	SY		
23A	Demucking as directed by the Engineer	25,100	CY		
23B	Select fill in place as result of demucking as directed by the engineer in item 23 A	25,100	CY		
24	Install rip rap over Travis Field force main at Sta. 164+00	225	SY		
25	Install rip rap over gas lines at Sta. 162+00	470	SY		
26	Construction Staking for the project.	JOB	LS		
27	Relocate 14" forcemain if it is found to be in conflict with the canal widening	2400	EA		
28	Connect to existing 14" forcemain with in line stopple	4	EA		
29	Special Conditions	JOB	LS		
				SUBTOTAL	
SUB TOTAL ADD ALTERNATE 2 CANAL WIDENING					

Add Alternate 2: Reach 3 Sta. 140+00 to Sta. 215+00

Revised 6-30-2010

Add Alternate 2: Parcel No. 48 Access Road

A. SITEWORK				
1	Earthwork			
	1A. Select Fill, in place	760	CY	
2	Clearing and Grubbing	0.34	ACRES	
				SUBTOTAL
B. EROSION CONTROL				
3	Silt Fence	1,375	LF	
4	Construction Exits	1	EA	
5	Maintenance of Erosion Control	JOB	LS	
6	Grassing	1,630	SY	
7	Jute Mesh	730	SY	
8	Installation of Rip Rap	27	SY	
				SUBTOTAL
C. MISCELLANEOUS				
9	18" RCP	40	LF	
10	18" Headwall	1	EA	
11	Class IV 24" RCP	28	LF	
12	24" FES	2	EA	
13	6" Access road stone base with filter fabric	980	SY	
14	Geogrid under access road (Tensar BX 1200)	3,800	SY	
15	Filter Fabric Under Road Embankment	1,630	SY	
16	8" Aggregate Base	70	SY	
17	1-1/2" 12.5mm Superpave	70	SY	
				SUBTOTAL
SUB TOTAL ADD ALTERNATE 2 PARCEL NO. 48 ACCESS ROAD				