

2012 DEC -6 PM 2:30  
NOV 27 AM 10:19

**CHANGE ORDER APPROVAL FORM**

PROJECT: 14<sup>th</sup> Street Intersection Improvements CHANGE ORDER NUMBER: 1  
(Hickory to Atlantic) DATE: 10/9/12  
CONTRACT NUMBER: CM1849

TO CONTRACTOR: Baker Infrastructure Group

Reason for Change Order: Add manhole per RFI No. 1; add regular excavation per RFI No. 7; add RCP per RFI No. 8

Original Contract Sum.....	\$	<u>1,577,221.30</u>
Net Change by Previous Change Order/Supplemental Agreement.	\$	<u>.00</u>
Contract Sum Prior to This Change Order.....	\$	<u>1,577,221.30</u>
Amount of This Change Order (Add/Deduct).....	\$	<u>6,594.00</u>
New Contract Sum Including this Change Order.....	\$	<u>1,583,815.30</u>

The contract for substantial completion will be (~~increased~~) (~~decreased~~) (unchanged) by 0 days;  
Substantial Completion: March 26, 2013; Final Completion: May 25, 2013

APPROVED BY: [Signature] DATE: 11/26/12  
Project Manager (Department Head)

APPROVED BY: [Signature] DATE: 11/27/12  
Contract Manager

APPROVED BY: [Signature] DATE: 12.5.12  
Director of Office of Management & Budget

APPROVED BY: [Signature] DATE: 12/5/12  
County Manager

ACCOUNT NO.: \_\_\_\_\_

REC'D - 12/28/12

41151541 - 563410 14 INT -  
63470541 - 563100 14 INT -

SECTION 00 63 63

CHANGE ORDER REQUEST FORM

14<sup>th</sup> Street (Hickory to Atlantic)

2012 NOV 18 AM 11:50

PROJECT

DATE OF ISSUANCE: 10/9/12

EFFECTIVE DATE: 10/9/12

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

COUNTY Contract / Purchase Order No.: CM-1849 / PO # 12000376

CONTRACTOR: Baker Infrastructure Group

ENGINEER / ARCHITECT: McCranie & Associates, Inc.

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

Description: Add 1 EA Manhole 7 Type J per RFI No 1 (S-23A), Add 394.00 CY of Excavation per RFI No. 7, Add 4.0 LF of 18" RCP per RFI No. 8.

Reason for Change Order: See attached RFI's

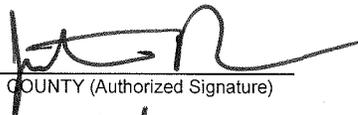
Attachments: (List documents supporting change) Bid Tab and RFI No.'s 1, 7 & 8, Spreadsheet breakdown.

RECOMMENDED:

By:   
Engineer/Architect (Authorized Signature)

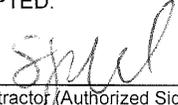
Date: 10-26-12

APPROVED:

By:   
COUNTY (Authorized Signature)

Date: 10/9/12

ACCEPTED:

By:   
Contractor (Authorized Signature)

Date: 10/16/2012

**Change Order No. 1 Cost Breakdown (ETM)**

Description	O/R - U/R Quantity	Units	Unit Price	Total Price
Manhole J-7 < 10'	1.00	EA	\$ 2,500.00	\$ 2,500.00
Regular Excavation	394.00	CY	\$ 10.00	\$ 3,940.00
18" RCP	4	LF	\$ 38.50	\$ 154.00
			Total =	\$ 6,594.00

By:   
Carrie Smithheart

Date: 10/8/12

03/22/2012

11:40

12-FL-014

14th Street Corridor Improvements

\*\*\* Brian Pate

**BID TOTALS**

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
1	MOBILIZATION	1.000	LS	102,000.00	102,000.00
2	MAINTENANCE OF TRAFFIC	1.000	LS	116,000.00	116,000.00
3	SEDIMENT BARRIER	7,500.000	LF	1.40	10,500.00
4	INLET PROTECTION SYSTEM	28.000	EA	110.00	3,080.00
5	CLEARING AND GRUBBING	3.500	AC	19,000.00	66,500.00
6	REMOVAL OF EX CONC PAVEMENT	145.000	SY	50.00	7,250.00
7	MAILBOX F&I	28.000	EA	160.00	4,480.00
8	REGULAR EXCAVATION	2,000.000	CY	10.00	20,000.00
9	EMBANKMENT	500.000	CY	10.00	5,000.00
10	12" TYPE B STABILIZATION	9,500.000	SY	9.75	92,625.00
11	OBG 4	300.000	SY	13.75	4,125.00
12	OBG 6	7,500.000	SY	12.80	96,000.00
13	MILLING EXISTING ASPHALT (1.5" AVG)	13,000.000	SY	1.20	15,600.00
14	SUPERPAVE ASPH (SP-9.5)	1,400.000	TN	98.00	137,200.00
15	ASPH FRICTION COURSE (FC-9.5)	2,000.000	TN	111.50	223,000.00
16	PLAIN CONC PAVEMENT 6"	300.000	SY	29.00	8,700.00
17	INLETS CURB TYPE P-5 <10'	10.000	EA	2,500.00	25,000.00
18	INLETS CURB TYPE P-6 <10'	18.000	EA	2,900.00	52,200.00
19	INLETS CURB TYPE J-4 <10'	2.000	EA	4,000.00	8,000.00
20	INLETS DT BOT TYPE C <10'	3.000	EA	2,375.00	7,125.00
21	INLETS GUTTER TYPE V <10'	1.000	EA	2,500.00	2,500.00
22	MANHOLES P-7 <10'	1.000	EA	2,000.00	2,000.00
23	MANHOLES J-7 <10'	2.000	EA	2,500.00	5,000.00
24	MANHOLES (TOPS)	3.000	EA	1,200.00	3,600.00
25	PIPE CULVERT OPT , ROUND 15" S/CD	202.000	LF	36.50	7,373.00
26	PIPE CULVERT OPT , ROUND 18" S/CD	3,188.000	LF	38.50	122,738.00
27	PIPE CULVERT OPT , ROUND 30" S/CD	334.000	LF	61.80	20,641.20
28	PIPE CULVERT OPT , ROUND 36" S/CD	929.000	LF	70.80	65,773.20
29	FLARED END SECTION 18"	1.000	EA	600.00	600.00
30	FLARED END SECTION 36"	1.000	EA	1,780.00	1,780.00
31	CONC CURB & GUTTER TYPE F	7,600.000	LF	8.50	64,600.00
32	VALLEY GUTTER	100.000	LF	13.00	1,300.00
33	SIDEWALK CONC 4" THICK	100.000	SY	34.00	3,400.00
34	SIDEWALK CONC 6" THICK	1,400.000	SY	28.75	40,250.00
35	DET WARNING ON EX WALKING SURFACE - RE	10.000	EA	300.00	3,000.00
36	PERFORMANCE TURF SOD	3,300.000	SY	2.60	8,580.00
37	CONDUIT, (F&I) (ABOVE GROUND)	15.000	LF	15.00	225.00
38	CONDUIT, (F&I) (UNDERGROUND)	802.000	LF	5.00	4,010.00
39	CONDUIT, (F&I) (UNDERPAVEMENT JACKED)	187.000	LF	13.00	2,431.00
40	SIGNAL CABLE (F&I)	2.000	PL	2,100.00	4,200.00
41	PULL & JUNCTION BOX (F&I)	11.000	EA	270.00	2,970.00
42	ELECTRICAL POWER SERVICE (UNDERGROUN	1.000	AS	1,000.00	1,000.00
43	ELECTRICAL SERVICE WIRE (F&I)	270.000	LF	1.50	405.00
44	ELECTRICAL SERVICE DISCONNECT (F&I) (POL	1.000	EA	270.00	270.00
45	PRESTRESSED CONC POLE (F&I) (TYP P-II) SER	1.000	EA	1,000.00	1,000.00
46	MAST ARM (F&I) SINGLE ARM W/OUT LUMIN -	1.000	EA	31,500.00	31,500.00
47	TRAFFIC SIGNAL (F&I) 3- SECT 1 WAY STD	6.000	AS	980.00	5,880.00
48	TRAFFIC SIGNAL (F&I) 5- SECT 1 WAY STD	2.000	AS	1,370.00	2,740.00
49	PED SIGNAL (F&I) LED COUNTDOWN 1 DIRECTI	10.000	AS	575.00	5,750.00
50	PED SIGNAL (F&I) LED COUNTDOWN 2 DIRECTI	2.000	AS	1,120.00	2,240.00
51	SIGNAL HEAD AUXILLARIES (F&I) ALUM PEDE	4.000	EA	1,050.00	4,200.00
52	INDUCTIVE LOOP DETECTORS (F&I) 2 1CH R S	1.000	EA	180.00	180.00
53	INDUCTIVE LOOP DETECTORS (F&I) 10 2CH SS	3.000	EA	215.00	645.00

3/22/2012  
 12-FL-014  
 \*\*\* Brian Pate

11:40  
 14th Street Corridor Improvements

**BID TOTALS**

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
54	LOOP ASSEMBLY (TYPE F)	8.000	AS	470.00	3,760.00
55	PEDESTRIAN DETECTOR (F&I) POLE MOUNTED	8.000	EA	180.00	1,440.00
56	ACTUATED SOLID STATE CONTROLLER (NEMA	1.000	AS	20,600.00	20,600.00
57	SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL	8.000	EA	55.00	440.00
58	SIGNAL PEDESTAL REMOVAL	1.000	EA	165.00	165.00
59	POLE REMOVAL SHALLOW DIRECT BURIAL	2.000	EA	1,270.00	2,540.00
60	CONTROL ASSEMBLY REMOVE COMPLETE AS	1.000	EA	165.00	165.00
61	SPAN WIRE ASSEMBLY REMOVAL	1.000	EA	385.00	385.00
62	CONDUIT AND CABLING REMOVE	1.000	PL	385.00	385.00
63	INTERNAL ILLUM SIGN F&I STREET NAME	2.000	EA	3,000.00	6,000.00
64	SINGLE SIGN POST (LESS THAN 12 SF)	19.000	AS	300.00	5,700.00
65	SINGLE SIGN POST (RELOCATE)	16.000	AS	80.00	1,280.00
66	SINGLE SIGN POST (REMOVE)	22.000	AS	27.00	594.00
67	SIGN PANEL F&I 15 OR <	8.000	EA	75.00	600.00
68	SIGN PANEL REMOVE	8.000	EA	16.50	132.00
69	SIGN FLASHING BEACON (RELOCATE, GROUN	2.000	AS	1,650.00	3,300.00
70	RETRO REFLECTIVE PAVEMENT MARKERS	499.000	EA	5.00	2,495.00
71	THERMOPLASTIC STD WH SOLID 6"	1.694	NM	5,600.00	9,486.40
72	THERMOPLASTIC STD WH SOLID 8"	441.000	LF	1.30	573.30
73	THERMOPLASTIC STD WH SOLID 12"	1,365.000	LF	2.40	3,276.00
74	THERMOPLASTIC STD WH SOLID 18"	107.000	LF	3.50	374.50
75	THERMOPLASTIC STD WH SOLID 24"	671.000	LF	4.50	3,019.50
76	THERMOPLASTIC STD WH GUIDELINE 6" 2'-4' S	40.000	LF	1.00	40.00
77	THERMOPLASTIC STD WH MESSAGE	2.000	EA	127.00	254.00
78	THERMOPLASTIC STD WH ARROW	24.000	EA	51.00	1,224.00
79	THERMOPLASTIC STD YEL SOLID 6"	2.087	NM	5,600.00	11,687.20
80	THERMOPLASTIC STD YEL SOLID 18"	820.000	LF	3.00	2,460.00
81	THERMOPLASTIC STD YEL DOTTED GUIDELIN	74.000	LF	1.00	74.00

BASE BID \$1,509,616.30

82	CLEARING AND GRUBBING	0.350	AC	4,800.00	1,680.00
83	SIDEWALK CONC 4" THICK	1,200.000	SY	25.60	30,720.00

ALTERNATIVE A - EAST SIDEWALK \$32,400.00

84	CLEARING AND GRUBBING	0.370	AC	4,500.00	1,665.00
85	SIDEWALK CONC 4" THICK	1,300.000	SY	25.80	33,540.00

ALTERNATIVE A - WEST SIDEWALK \$35,205.00

Bid Total \$1,577,221.30

**SECTION 00 63 15**

**CONTRACTOR'S REQUEST FOR INFORMATION**

TO: Jonathan Page

FROM: Frank Slawitschka    CONTRACTOR: Baker Infrastructure Group    DATE: 4-20-12

CONTRACTOR REQUEST FOR INFORMATION NO.: 1

PROJECT NAME: 14<sup>th</sup> Street Corridor Improvements

CONTRACT NUMBER: CM1849

PURCHASE ORDER NO.:

**QUESTION:**

Good morning Jonathon,

This is a follow up email to our conversation yesterday about the storm at 14<sup>th</sup> street.

On sheet 27 it calls for one pipe run (P-23) between S-23 and S-25 which scales approx. 334'. The table on sheet 25 calls out a S-23A and P-23A that are not shown on sheet 27.

Do to the pipe length shown for P-23A and P-23 of 167' each it would lead me to believe there should be a structure (S-23A) between S-23 and S-25 which the summary on sheet 3 calls out as a MH7. Is this an existing structure or a new structure?

BY: Frank Slawitschka

DATE: 4-20-12

**REPLY:**

The labeling of Structure S-23A was ommitted. You are correct that there is a pipe run of 167' from S-23 to S-23A, as well as a pipe run from S-23A to S-25. S-23A is a new structure and should be added to the pay item quantities.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BY: Dan McCranie, P.E.

DATE: 4-20-12

## Carrie Smithheart

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**From:** Jonathan Page [jpage@nassaucountyfl.com]  
**Sent:** Friday, April 20, 2012 10:11 AM  
**To:** Carrie Smithheart; Dan McCranie  
**Cc:** Kent Ponder  
**Subject:** RE: Storm ? on 14th St.

I agree with that we can do it as an overrun and put it in the final true up cost CO.

Jonathan Page, P.E.  
Engineer III  
Nassau County Engineering Services  
96161 Nassau Place  
Yulee, FL. 32097 (904) 491-7330

---

**From:** Carrie Smithheart [mailto:SmithheartC@etminc.com]  
**Sent:** Friday, April 20, 2012 9:46 AM  
**To:** Dan McCranie; Jonathan Page  
**Cc:** Kent Ponder  
**Subject:** RE: Storm ? on 14th St.

Dan,

After looking at the plans it appears that the call out for structure S-23A (MH7 Type J) was inadvertently left off of plan sheet 27 and that we are to install a new MH7 Type J structure at sta. 41+02.50 Lt. as shown on plan sheet 16. In addition, I reviewed the Bid Blank that I have and it appears that we only accounted for 2 EA MH7 Type J's, where, based on the Summary of Drainage structures on plan sheet 3, we should have accounted for a total of 3 EA.

Is this correct? If so, I can go ahead and respond back to Frank Slawitchka with Baker once I get the formal RFI.

Jonathan,

If the above is correct, we can over run the existing pay item and look towards the end of the project to see if we need to write it up on the Final CO based on actual project expenses.

Thoughts?

**Carrie Smithheart**

**Project Administrator**



Direct: 904-265-3170  
Cell: 904-509-9007  
Fax: 904-646-9485  
Email: [SmithheartC@etminc.com](mailto:SmithheartC@etminc.com)

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**From:** Jonathan Page [<mailto:jpage@nassaucountyfl.com>]  
**Sent:** Friday, April 20, 2012 7:50 AM  
**To:** Dan McCranie; Carrie Smithheart  
**Subject:** FW: Storm ? on 14th St.

Guys,

Please see the attached. Carrie I will let them know to copy you on all correspondence. Also should this be generated on the RFI form? If so I will send it back with the for to be filled in.

Thanks and Happy Friday!

Jonathan

Jonathan Page, P.E.  
Engineer III  
Nassau County Engineering Services  
96161 Nassau Place  
Yulee, FL. 32097 (904) 491-7330

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**From:** Frank Slawitschka [<mailto:frank@rbbaker.com>]  
**Sent:** Friday, April 20, 2012 7:24 AM  
**To:** Jonathan Page  
**Cc:** Chuck Chaon; John Cosgrove  
**Subject:** Storm ? on 14th St.

Good morning Jonathon,

This is a follow up email to our conversation yesterday about the storm at 14<sup>th</sup> street.

On sheet 27 it calls for one pipe run (P-23) between S-23 and S-25 which scales approx. 334'. The table on sheet 25 calls out a S-23A and P-23A that are not shown on sheet 27.

Do to the pipe length shown for P-23A and P-23 of 167' each it would lead me to believe there should be a structure (S-23A) between S-23 and S-25 which the summary on sheet 3 calls out as a MH7. Is this an existing structure or a new structure?

Thank you,

**Frank Slawitschka**  
**Baker Infrastructure Group Inc.**  
**Project Engineer**  
249 Industry Place  
St. Augustine, Florida 32095  
Ph: 904-824-9901 ext. 215  
Fax: 904-824-9601  
Cell: 904-545-3728  
[frank@rbbaker.com](mailto:frank@rbbaker.com)

## Carrie Smithheart

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**From:** Dan McCranie [dan@mccranie-engineers.com]  
**Sent:** Monday, September 24, 2012 10:03 AM  
**To:** Carrie Smithheart  
**Cc:** Kent Ponder  
**Subject:** RE: 14th St. (Hickory to Atlantic) - FW: Swale Construction along Fir Street Outfall - Follow up to RFI No. 7 Response

This is a reasonable request. My earthwork volumes are very close to their numbers.

Dan

Daniel I. McCranie, P.E.

Vice-President



McCranie & Associates, Inc. - Certified DBE in Florida  
904-335-8685

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**From:** Carrie Smithheart [mailto:SmithheartC@etminc.com]  
**Sent:** Thursday, September 20, 2012 1:37 PM  
**To:** Dan McCranie  
**Cc:** Kent Ponder  
**Subject:** RE: 14th St. (Hickory to Atlantic) - FW: Swale Construction along Fir Street Outfall - Follow up to RFI No. 7 Response  
**Importance:** High

Dan,

Have you had a chance to review the below?

Thanks,

Carrie

---

**From:** Carrie Smithheart  
**Sent:** Monday, September 10, 2012 1:28 PM  
**To:** Dan McCranie  
**Cc:** Kent Ponder; 'Jonathan Page'  
**Subject:** 14th St. (Hickory to Atlantic) - FW: Swale Construction along Fir Street Outfall - Followup to RFI No. 7 Response  
**Importance:** High

Dan,

Please see the attached letter from Baker requesting additional compensation for the swale grading required along Fir St. per the response to project RFI No. 7. Please review your records and let me know if they are correct in their calculations and if indeed this would be considered additional quantities of regular excavation.

Thank you,

**Carrie Smithheart**

**Project Administrator**



**England-Thims & Miller, Inc.**

**VISION • EXPERIENCE • RESULTS**

Direct: 904-265-3170  
Cell: 904-509-9007  
Fax: 904-646-9485  
Email: [SmithheartC@etminc.com](mailto:SmithheartC@etminc.com)

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**From:** Chuck Chaon [<mailto:chuck@rbbaker.com>]  
**Sent:** Friday, September 07, 2012 4:08 PM  
**To:** Carrie Smithheart  
**Cc:** Frank Slawitschka; Sonny Daniels  
**Subject:** Swale Construction along Fir Street Outfall

Please find the attached documents regarding the additional work requested along the Fir Street outfall.

Thanks and have a great weekend!

CHUCK CHAON  
Baker Infrastructure Group, Inc.  
249 Industry Place  
St. Augustine Florida 32095  
P 904 824-9901 x204  
F 904 824-9601  
C 904 219-2573



## BAKER INFRASTRUCTURE GROUP, INC.

---

Carrie Smithheart  
Project Administrator  
England Thims and Miller, Inc.  
14775 Old St Augustine Road  
Jacksonville, Florida 32258

9.7.12

**SUBJECT: Additional ditch grades per project RFI No 7**  
Contract No CM 1849  
Bid No NC 12-002  
County: Nassau  
Project Name: 14<sup>th</sup> Street Corridor Improvements

Dear Mrs. Smithheart:

Pursuant to Section 00 63 63 Change Order Request, we are hereby informing your office of our request for additional compensation for work not included in the original plans.

Per project RFI No 7, see attached, we have received direction to construct a swale along the Fir street outfall. Please note in the attachments there is approximately a 1 foot cut from the existing topo grades shown for the length of the swale.

Based on the detail provided in the RFI response the volume would be calculated as 9' wide and 1' deep from Station 100+40 to 112+20. By our calculation this would increase the required excavation by 394 CY.

Please advise if compensation for this work can be billed as an overrun to the Regular Excavation items.

Sincerely,

  
Baker Infrastructure Group, Inc.  
Chuck Chaon

**SECTION 00 63 15**

**CONTRACTOR'S REQUEST FOR INFORMATION**

TO: Carrie Smithheart

FROM: Frank Slawitschka      CONTRACTOR: Baker Infrastructure Group      DATE: 8/13/12

CONTRACTOR REQUEST FOR INFORMATION NO.:

PROJECT NAME: 14<sup>th</sup> Street Corridor Improvements

CONTRACT NUMBER: CM1849 BID No. NC12-002      PURCHASE ORDER NO:

QUESTION:

During a review of the plans it has come to our attention there is no typical section or final grade design for the disturbed area along the south side of Fir Street where the pipe is being installed.

Field observations during rain events lead us to believe the lack of grading in this area could be an oversight. Discussions with Kenny Cornell (ETM) would suggest the county would benefit from the construction of a drainage swale along the right of way to channel the runoff between the ditch bottom inlets along the Fir outfall.

Please advise us of what change if any would best suit the owners' needs in this area.

A quick response would be greatly appreciated as we are currently scheduling sodding restoration in this area.

BY: Frank Slawitschka

DATE: 8/13/12

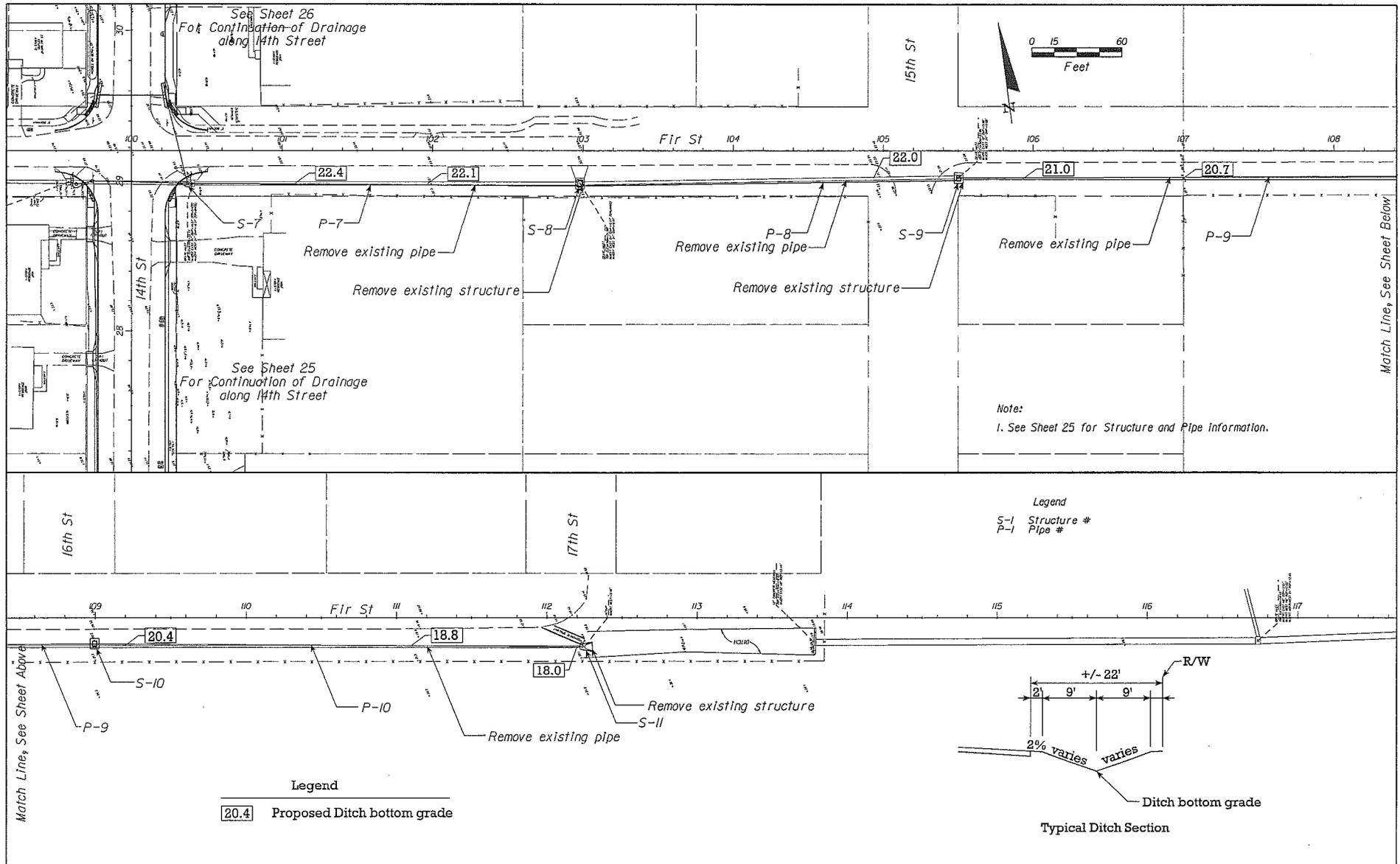
REPLY:

Attached is a revised drainage sheet (Sheet 29). We have added proposed ditch grades (inside the rectangular boxes) as well as a typical ditch section. If there are any questions or conflicts in the field, please notify us immediately.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BY: Dan McCranie

DATE: 8-14-12



REVISIONS			
DATE	BY	DESCRIPTION	
8-14-12	DM	Added Ditch Grades	

Engineer of Record: Daniel J. McCranie, P.E.  
P.E. # 80822  
95094 Ashby Lane  
Fernandina Beach, FL 32034  
(804) 339-8888

**M&A**  
McCrane & Associates, Inc.

Certificate of Authorization No. 8289



NASSAU COUNTY ENGINEERING  
NASSAU COUNTY FLORIDA  
CONSTRUCTION PLANS FOR:  
14th Street

**DRAINAGE SHEET**  
**14TH STREET**

SHEET NO.  
29

## SECTION 00 63 15

## CONTRACTOR'S REQUEST FOR INFORMATION

TO: Carrie Smithheart

FROM: Frank Slawitschka      CONTRACTOR: Baker Infrastructure Group      DATE: 8/23/12

CONTRACTOR REQUEST FOR INFORMATION NO.: 8PROJECT NAME: 14<sup>th</sup> Street Corridor Improvements

CONTRACT NUMBER: CM1849 BID No. NC12-002      PURCHASE ORDER NO:

QUESTION:

Baker Infrastructure Group request direction on the intent of the existing drainage and drainage structure at the SW Corner of Fir Street and S.14<sup>th</sup> Street.

The drainage plans "sheet #25" do not show an existing storm run nor do they give any direction as to removing an existing structure or tying into an existing structure. Also the shop drawing for S-6 was approved with only one hole which would be from S-5 to S-6.

On sheet 14 of the plan and profile sheets the existing structure and pipe run are shown but also do not give any direction as to how the existing structure, pipe or drainage along Fir street are to be constructed.

Please advise on what needs to be done in this area as we will be setting S-5 today.

BY: Frank Slawitschka

DATE: 8/23/12

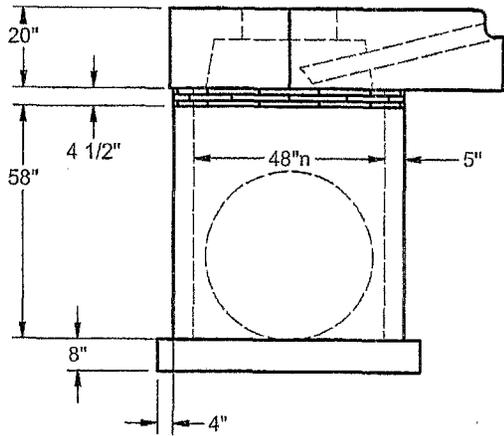
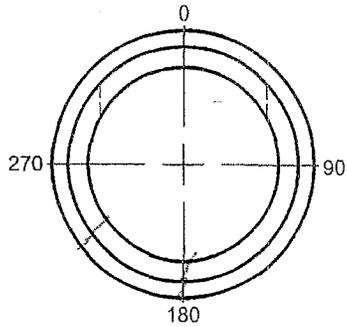
## REPLY:

The shop drawing for S-6 was approved as noted. I added a 36" opening at 207' for an invert of 16.28 (see attached copy). The existing 24" CMP heading east from the existing structure needs to be removed. A new run of +/- 4' of 24" RCP will then run from the existing structure to S-6. I intend for the existing structure to remain, however if that is not feasible, I would like to meet in the field to solve the problem.

BY: Dan McCranieDATE: 8-23-12

NOTE: Tied in w/18" RCP TO MATCH EXISTING. (COV)

48"DIA P-4 CI # S-6  
1 ea



FG = 23.15  
EOP - 22.78 ✓  
TA = 21.48  
TPW1 = 21.11

ITB = 16.28  
APTB = 5.20

- 1 EA CAST USF CVR E STORM
- 1 EA CAST USF RNG 1182
- 1 EA 0-0-0-CI TOP-FDOT TYPE 4-1182-E STM ✓

SPECIFICATIONS

- 1 BASE STEEL - #4 @ 6" O.C.E.W. (Top);
- 2 WALL STEEL - 3X8 W3.0/W2.0 WWF (ASTM C-478)
- 3
- 4
- 5
- 6 4000 PSI
- 7 Grade 60 (400 MPa) steel reinforcement

SPECIAL NOTES: 1 FLAT TOP

PC #	WEIGHT	PIECE DESCRIPTION	PRODUCT CODE
1	5900	048Dia x 05Wall x 058H, MonoBaseExt_Eng	SR048B05M060X000

PC #	DEG/ DIR	PIPE SIZE	PIPE INVERT	HOLE SIZE	BOOT TYPE	HOLE INVERT	HOLE RAISE
1	0	30 RCP	16.78	42	NONE	16.28	0"
1	207	24 RCP	16.78	36	NONE	16.28	0"

14TH STR CORRIDOR IMPV

DESIGN BY: LCWM

R B BAKER CONSTR

DATE: 4/20/2012



ORDER #: 10509951

SCALE: 1:40

REVISED DATE:

DESCRIPTION:

10509951S-6.dwg

4/20/2012

R-048-05-00-CI-P-F4-F-0-0