

# Entouch Systems

PO 134710  
Rec 384187  
12/22/16

app

Job Number:

WO15CFB1074

Community:

Ft Bend County

Section:

FM 1093 Road widening

Contractor:

Elite/Byers

Project Description: Westpark Tollway

		Invoice #
Elite Utilities Invoices	\$48,624.85	14123
Byers Invoices	\$600.00	661185
Byers Invoices	\$13,979.55	661186
Byers Invoices	\$3,400.00	691338
In House Project Management	\$9,000.00	120 hour @ \$75 per hour
Material	\$32,775.06	

Total Cost

\$108,379.46

Fort Bend County Reimbursement (50%)

\$54,189.73

ok to pay  
FWB 12/22/16

ELITE UTILITY SERVICES, INC.

15918 ESCHER  
CYPRESS, TX 77429

# Invoice

Date	Invoice #
10/4/2016	14123

Bill To
En-Touch Systems, Inc. 11011 Richmond Suite 400 Houston, Texas 77042

FM1093 Aerial Cable Relocate WO15CFB1074
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P.O. Number	Terms	Project
	Net 30	

Item Number	Description	Quantity	Amount
AER-001	FM1093 Aerial Cable Relocate WO15CFB1074 Placement of new strand, duct, utility poles, handholes, fiber optic cable, and wrecking out old cable, strand, and hardware from old route.		
AER-003	13832 ft./ Install Strand and Hardware	13,832	4,149.60
AER-010	13832 ft./ Lash Fiber Over 1,000ft	13,832	7,192.64
AER-011	16-Lash Storage Loops	16	1,200.00
	130 -Chase Slack Loop/ delash and relash, pull slack to new location	130	97.50
AER-012	10000ft.-Wreck Out fiber and strand	10,000	1,800.00
AER-012	4700 ft.-Wreck Out Wreckout with slack loops made for re-use of fiber	4,700	2,820.00
AER-013	3-Pole Transfer	3	93.00
AER-014	86-Pole Attachment	86	1,290.00
AER-016	2-Remove Down Guy	2	24.00
AER-017	6-Sidewalk Guy	6	141.30
AER-023	2-Install Anchor (2- remove)	2	50.00
AER-025	90 ft./ Re-Sag Strand	90	34.20
AER-026	7-Set Class 3 Pole	7	2,975.00
AER-027	4-Riser Transfer to new pole (2- new, 2- remove)	4	300.00
Fib-009	Loc # 1 New handhole on Spring Green	96	2,016.00
Fib-009	Loc #2 New aerial case on 723	96	2,016.00
FIB-001	Loc #3 New aerial case on 1093 near WL	24	600.00
Fib-009	Loc #4 New aerial case on KATy Gaston near 1093	96	2,016.00
Fib-008	Loc #5 New aerial case on 723 2nd night	48	1,056.00
Fib-008	Loc #6 New HH on Spring Green	48	1,056.00
FIB-002	4-Fiber Cable Prep Fee	4	300.00
FIB-003	9-Enclosure Re-Entry	9	900.00
FIB-005	3-Remount Fiber Enclosure	3	300.00
FIB-006	3- Trouble Shooting / Mapping per location	3	150.00
UG-005	650 ft.-2in Bore	650	4,875.00
UG-010	1-Place Handhole- New handhole	1	125.00
UG-010B	1-Place handhole on existing plant	1	250.00
UG-013	1442 ft./Place cable or fiber in conduit	1,442	793.10
<b>Total</b>			

ELITE UTILITY SERVICES, INC.

15918 ESCHER  
CYPRESS, TX 77429

# Invoice

Date	Invoice #
10/4/2016	14123

Bill To
En-Touch Systems, Inc. 11011 Richmond Suite 400 Houston, Texas 77042

FM1093 Aerial Cable Relocate WO15CFB1074
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P.O. Number	Terms	Project
	Net 30	

Item Number	Description	Quantity	Amount
UG-014	90 ft./ Place or Rod cable or fiber in existing conduit	90	67.50
UG-018	2-Dig pit and place coupler to exist. Innerduct	2	250.00
MISC-003	2-After Hours Fee	2	600.00
Misc-010	Hang yellow Caution Tape off fiber over driveways and roads.	6	900.00
Maint-005	Treated Utility Poles - 30'	8	7,072.00
Maint-005	Sidewalk Guy MAterials	6	1,022.94
Maint-005	Concrete Pole Hardware- 10ft all thread rod, 3/4" SS band, 3/4" band buckles-	2	92.07
<b>Total</b>			<b>\$48,624.85</b>



6285 BARFIELD ROAD - ATLANTA, GEORGIA 30328-4303  
404.843.1000 – FAX 404.843.2116 – [www.byers.com](http://www.byers.com)  
FEI#58-1117270

STATEMENT

EnTouch Systems  
11011 Richmond Ave.  
Suite 400  
Houston, Tx 77042

No. 661185

DATE 10/08/15

Attention: Wesley Pennix

Job No. FTH42021

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Senior Outside Plant Engineer hourly billing off site –

WO15CFB1090  
Jerry Sproull  
24 hours @ \$50/per hour = \$1,200.00  
Week Ending 09/04/2015

WO15CFB1017  
Jerry Sproull  
12 hours @ \$50/per hour = \$600.00  
Week Ending 09/04/2015

WO15CFB1074  
Jerry Sproull  
12 hours @ \$50/per hour = \$600.00  
Week Ending 09/12/2015

WO15CFB1017  
Jerry Sproull  
8 hours @ \$50/per hour = \$400.00  
Week Ending 09/12/2015

WO15CFB1109

Jerry Sproull

4 hours @ \$50/per hour = \$200.00

Week Ending 09/12/2015

WO15CFB1111

David Bryant

5 hours @ \$50/per hour = \$250.00

Week Ending 09/19/2015

WO15CFB1110

David Bryant

8 hours @ \$50/per hour = \$400.00

Week Ending 09/19/2015

WO15CFB1109

David Bryant

6 hours @ \$50/per hour = \$300.00

Week Ending 09/19/2015

WO15CFB1090

David Bryant

6 hours @ \$50/per hour = \$300.00

Week Ending 09/19/2015

WO15CFB1090

Jerry Sproull

16 hours @ \$50/per hour = \$800.00

Week Ending 09/19/2015

WO15CFB1110

Jerry Sproull

2 hours @ \$50/per hour = \$100.00

Week Ending 09/19/2015

WO15CFB1112

Jerry Sproull

7 hours @ \$50/per hour = \$350.00

Week Ending 09/19/2015

WO15CFB1109

Jerry Sproull

13 hours @ \$50/per hour = \$650.00

Week Ending 09/19/2015

WO15CFB1017

Jerry Sproull

1 hours @ \$50/per hour = \$50.00

Week Ending 09/19/2015

WO15CFB1113

Jerry Sproull

1 hours @ \$50/per hour = \$50.00

Week Ending 09/19/2015

Statement Amount

\$6,250.00



6285 BARFIELD ROAD - ATLANTA, GEORGIA 30328-4303  
404.843.1000 – FAX 404.843.2116 – [www.byers.com](http://www.byers.com)  
FEI#58-1117270

STATEMENT

EnTouch Systems  
11011 Richmond Ave.  
Suite 400  
Houston, Tx 77042

No. 661186

DATE 10/15/15

Attention: Wesley Pennix

Byers No. FTH42027  
Job No. W015CFB1074

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Aerial fiber cable relocation for the FM 1093-West Park toll extension conflict, from  
Katy Gaston Rd and FM 1093 to Westheimer Lakes North Dr and FM 1093

Scope of Work:

Coordinate with the two retained representatives Fort Bend County  
Review and analyze associated toll road extension construction plans  
Produce field notes/cad drawings to place 12,735 linear ft of aerial fiber cable and to  
remove 13,432 linear ft of aerial cable  
Produce field notes/cad drawings to place 497 linear ft of buried fiber cable  
Process a pole attachment application with Center point Energy for 75 poles  
Produce and submit a non-typical TXDOT traffic control permit  
Process a reimbursement agreement for Entouch with Fort Bend County for this project

Statement Amount	\$13,979.55
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6285 BARFIELD ROAD - ATLANTA, GEORGIA 30328-4303  
404.843.1000 - FAX 404.843.2116 - [www.byers.com](http://www.byers.com)  
FEI#58-1117270

STATEMENT

EnTouch Systems  
11011 Richmond Ave.  
Suite 400  
Houston, Tx 77042

No. 691338

DATE 10/06/2016

Attention: Wesley Pennix

Job No. FTH42042

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Senior Outside Plant Engineer hourly billing off site -

WO16CFB1176 *Grove Parkman*  
BEC 203- Project Coordinator/Engineering Designer to assist Manager  
16 hours @ \$50/per hour = \$800.00

WO15CFB1074 *Em 1093*  
BEC 203- Project Coordinator/Engineering Designer to assist Manager  
68 hours @ \$50/per hour = \$3400.00

WO16CFB1024  *Hwy 359/90*  
BEC 203 - Project Coordinator/engineering Designer to assist Manager  
29 hours @ \$50/per hour = \$1450.00

WO16CFB1190 *Spring Valley Medical - 9190 Katy Freeway*  
BEC 203 - Project Coordinator/engineering Designer to assist Manager  
80 hours @ \$50/per hour = \$4000.00

WO16CFB1021 *West Belt*  
BEC 203 - Project Coordinator/engineering Designer to assist Manager  
44 hours @ \$50/per hour = \$2200.00

Statement Amount

\$11,850.00



MATERIALS

GP Item #	Material List	Vendor		Cost	Qty	Total
	<b>FIBER</b>					
FIB000088	12Ct. Fiber-Commscope/KGP	KGP	Per FT	\$0.29		\$0.00
FIB000089	24Ct. Fiber-Commscope/KGP	KGP	Per FT	\$0.37		\$0.00
FIB000090	48Ct. Fiber-Commscope/KGP	KGP	Per FT	\$0.48		\$0.00
FIB000091	96Ct. Fiber-Commscope/KGP	KGP	Per FT	\$0.85		\$0.00
FIB000092	144Ct. Fiber-Commscope/KGP	KGP	Per FT	\$1.24	16200	\$20,088.00
FIB000105	288Ct. Fiber		Per FT	\$2.48		\$0.00
	<b>Conduit</b>					
CON000005	1 1/4" Conduit	CSC	Per FT	\$0.42		\$0.00
CON000006	2" Conduit	CSC	Per FT	\$0.76	2000	\$1,520.00
CON000010	1" Plenum Flex Duct	Graybar	Per FT	\$2.05		\$0.00
	<b>PEDS</b>					
FIB0000145	Clearfield 2 port XPAK	Clearfield	Each	\$52.00		\$0.00
FIB0000146	Clearfield 4 port XPAK	Clearfield	Each	\$66.00		\$0.00
FIB0000147	Charles BD4 FFTH ped	P&T	Each	\$96.40		\$0.00
FIB0000148	Charles BD4 FFTH ped STAKE	P&T	Each	\$7.95		\$0.00
BC000116	Ant Poison 1 per ped & HH (Order for every FFTH Ped)		Each	\$3.62	4	\$14.46
	<b>Handholes</b>					
FIB000086	24X36X36 PC TIER 15 PULL BOX W/COVER SMALL HH	City Build	Each	\$365.00	4	\$1,460.00
FIB000087	30x48x36 PolyConcrete box, open bottom. 2 piece lid LARGE HH	City Build	Each	\$500.00		\$0.00
FIB000009	Fiber Markers - Poly Dome Posts		Each	\$12.00	4	\$48.00
BC000027	Ground Rod		Each	\$7.00	4	\$28.00
BC000025	Gound Rod clamps		Each	\$4.03	4	\$16.12
	<b>Splice Cases/Trays</b>					
FIB000107	FOSC450-D6-6-NT-0-D3V - KGP Underground (Tyco Splice Case)	KGP	Each	\$316.69		\$0.00
FIB000108	FOSC-ACC-D-TRAY-36-KIT - KGP (Tyco Splice Tray)	KGP	Each	\$20.82		\$0.00
FIB000110	Coyote Closure - Reg 144 ct or less (Aerial)	City Build	Each	\$270.00	3	\$810.00
FIB000109	Coyote Closure - Lg - 288 ct or more (Aerial)	City Build	Each	\$490.00		\$0.00
FIB000135	36ct Splice Tray	City Build	Each	\$36.50	12	\$438.00
FIB000027	Emersen Splice Trays		Each			\$0.00
BC000110	3M Fiber Bonding Clamps	P&T	Each	\$0.79		\$0.00
	<b>Aerial</b>					
AE000001	430 Lashing Wire -2 Per 1000 ft Aerial	P&T	Per Roll	\$9.68	26	\$251.68
AE000002	1/4" Extra High Strength Strand		Per Ft	\$0.12	15200	\$1,824.00
AE000003	5/8" x 14" Machine Bolt (box of 25) (1 per pole)	P&T	Each	\$1.34		\$0.00
AE000004	5/8" x 14" Thimble Eye Bolt (box of 25)	P&T	Each	\$3.40	100	\$340.00
AE000005	5/8" x 16" Machine Bolt (box of 25)	P&T	Each	\$1.55		\$0.00
AE000006	5/8" x 16" Thimble Eye Bolt (box of 25)	P&T	Each	\$3.80		\$0.00
AE000007	2" Square Washer (box of 100) (2 per pole)	P&T	Each	\$0.21	200	\$42.00
AE000008	5/8" Square Nut (box of 100) (1 per pole)	P&T	Each	\$0.19	200	\$38.00
AE000009	3 Bolt B Suspension Clamp (box of 25) (1 per pole)	P&T	Each	\$2.85	100	\$285.00
BC000102	Aerial Fiber markers (4" Orogen Panel- part # APCM40) (1 per pole)	ACP	Each	\$1.55	100	\$155.00
AE000010	1/4" Guy Grip (Dead End) (box of 100)	P&T	Each	\$1.12	100	\$112.00
AE000011	Anchor - 6" 3/4" X 66"	P&T	Each	\$18.89	5	\$94.45
AE000012	Yellow Guy Guard (box of 25)	P&T	Each	\$3.63	10	\$36.30
AE000013	2"x8" Plastic U-guard (box of 100)	P&T	Each	\$8.34	10	\$83.40
AE000014	Bug Nuts (box of 100) (2 per pole)	P&T	Each	\$0.40	200	\$80.00
AE000015	Panduit Support Tie and Spacer (100/bag)	P&T	Each	\$0.84	200	\$168.00
AE000016	Weaver Clamp (box of 100)	P&T	Each	\$4.16	1	\$4.16
AE000020	Aerial Hanger Clamp Kit	P&T	Each	\$21.89	8	\$175.12
AE000021	6 GA Copper Bare Wire (315' roll)	P&T	Each	\$115.92	0.5	\$57.96
AE000022	1/4" x 2" Galvanized Lag Screw	P&T	Each	\$0.20	25	\$5.00
AE000023	1/4 straight splice for strand	P&T	Each	\$10.35	2	\$20.70
AE000024	16" Aluminum Fiber Storage Unit	P&T	Each	\$50.00	4	\$200.00

# MATERIALS

AE000025	20" Aluminum Fiber Storage Unit	P&T	Each	\$65.28		\$0.00
AE000026	Hook 5/8" Guy w/Integral Lag (Goat Head)	P&T	Each	\$2.76	8	\$22.08
AE000032	Double Arming Bolt - Riser Standoff	City Build	Each	\$5.95	6	\$35.70
AE000033	2 1/4" X 2 1/4" X 1/8" Square Washer - Riser Standoff	City Build	Each	\$0.45	6	\$2.70
AE000034	Unistrut - Galv. 1/5/8" Slotted - Riser Standoff (10')	City Build	Each	\$1.45	6	\$8.70
AE000035	2" Unistrut Pipe Clamp - Riser Standoff	City Build	Each	\$2.96	12	\$35.52
AE000036	1 1/4" Unistrut Pipe Clamp - Riser Standoff	City Build	Each	\$2.69		\$0.00
	<b>EMT</b>					
MISC	<b>1 - 1/4" EMT (Includes connectors/mount brackets/couplers....)</b>	Graybar	Each	\$2.00		\$0.00
DP000151	<b>C-Access for EMT Per Each</b>	Graybar	Each	\$18.32		\$0.00
DP000150	<b>LB or for EMT Per Each</b>	Graybar	Each	\$10.38		\$0.00
DP000127	<b>Install 6X6 EMT box Per Each</b>	Graybar	Each	\$7.62		\$0.00

<b>Cost:</b>	\$28,500.05
<b>Tax/Shipping</b>	\$4,275.01
<b>Total Cost:</b>	<b>\$32,775.06</b>

## Peterson, Jillian

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**From:** Michael Kaspar <Michael.Kaspar@dannenbaum.com>  
**Sent:** Thursday, December 22, 2016 8:46 AM  
**To:** Peterson, Jillian  
**Cc:** Wesley Pennix  
**Subject:** RE: FM 1093 Westpark Extension - EnTouch Amendment  
**Attachments:** 2016.11.22 Amendment\_EnTouch\_FM 1093.pdf; EnTouch-INVOICE SUMMARY.PDF; EnTouch-INVOICE BACKUP.PDF

Jillian,

The invoice I received from EnTouch is attached. The invoiced amount is acceptable, and is covered by the amendment. Please advise if EnTouch needs to modify the invoice in any way.

Thanks,

Michael Kaspar, P.E.  
Dannenbaum Engineering Corporation  
3100 W. Alabama  
Houston, TX 77098-2094  
Ph: 713-527-6374  
Cell Ph: 979-270-1115  
E-mail: [michael.kaspar@dannenbaum.com](mailto:michael.kaspar@dannenbaum.com)

**From:** Peterson, Jillian [mailto:[Jillian.Peterson@fortbendcountytexas.gov](mailto:Jillian.Peterson@fortbendcountytexas.gov)]  
**Sent:** Thursday, December 22, 2016 8:40 AM  
**To:** Michael Kaspar <Michael.Kaspar@dannenbaum.com>  
**Subject:** RE: FM 1093 Westpark Extension - EnTouch Amendment

Michael,

Attached is the signed amendment for your records. Purchasing has modified the PO, however, they still have not sent a copy. You are welcome to have them send their invoice.

Thank you!

**Jillian Peterson**  
Special Projects Coordinator  
Fort Bend County Engineering  
W. 281-633-7507  
[Jillian.Peterson@FortBendCountyTx.gov](mailto:Jillian.Peterson@FortBendCountyTx.gov)

ENGINEERING HAS MOVED TO 301 JACKSON STREET RICHMOND, TX 77469.

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**From:** Michael Kaspar [mailto:[Michael.Kaspar@dannenbaum.com](mailto:Michael.Kaspar@dannenbaum.com)]  
**Sent:** Thursday, December 22, 2016 6:47 AM  
**To:** Peterson, Jillian  
**Subject:** RE: FM 1093 Westpark Extension - EnTouch Amendment

Jillian,



Can you check on the status of the EnTouch Amendment? If was on the 11/22 Board agenda for approval. EnTouch again requested the status so they can invoice.

Thanks,

Michael Kaspar, P.E.  
Dannenbaum Engineering Corporation  
3100 W. Alabama  
Houston, TX 77098-2094  
Ph: 713-527-6374  
Cell Ph: 979-270-1115  
E-mail: [michael.kaspar@dannenbaum.com](mailto:michael.kaspar@dannenbaum.com)

**From:** Peterson, Jillian [<mailto:Jillian.Peterson@fortbendcountytexas.gov>]  
**Sent:** Thursday, December 1, 2016 8:15 AM  
**To:** Michael Kaspar <[Michael.Kaspar@dannenbaum.com](mailto:Michael.Kaspar@dannenbaum.com)>  
**Subject:** RE: FM 1093 Westpark Extension - EnTouch Amendment

Good morning Michael,

Sorry about that. Didn't check the date of what I sent. You're correct in that I have not yet received the signed amendment. I will forward once I do.

Have a great day!

**Jillian Peterson**  
Special Projects Coordinator  
Fort Bend County Engineering  
W. 281-633-7507  
[Jillian.Peterson@FortBendCountyTexas.gov](mailto:Jillian.Peterson@FortBendCountyTexas.gov)

ENGINEERING HAS MOVED TO 301 JACKSON STREET RICHMOND, TX 77469.

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**From:** Michael Kaspar [<mailto:Michael.Kaspar@dannenbaum.com>]  
**Sent:** Wednesday, November 30, 2016 4:00 PM  
**To:** Peterson, Jillian  
**Subject:** RE: FM 1093 Westpark Extension - EnTouch Amendment

Jillian,

There was an amendment (see attached) on the 11/22 agenda. It probably has not made its way back to you yet. The PO will be revised for the amended amount.

Thanks,

Michael Kaspar, P.E.  
Dannenbaum Engineering Corporation  
3100 W. Alabama  
Houston, TX 77098-2094  
Ph: 713-527-6374  
Cell Ph: 979-270-1115  
E-mail: [michael.kaspar@dannenbaum.com](mailto:michael.kaspar@dannenbaum.com)