

Estep Construction, Inc.

820 S Duncan Drive
Tavares, FL 32778

Invoice

Date	Invoice #
9/18/2017	965

Bill To
Lake County RO 12901 County Landfill Rd PO Box 7800 Tavares, FL 32778

CC/Ship To:
Contract #13-0607 PO# 20170178 CR 435 4 Locations
RECEIVED SEP 18 2017 LAKE COUNTY ROAD OPERATIONS

P.O./Contract #	Terms	Due Date	Ship Date	Ship Via	Project
20170178	Due on receipt	9/18/2017	9/18/2017		16-17/H

Item	Description	Quantity		Unit Pr...	Amount	
	CR 435 - 30303, 30308, 30318, 30200					
1	Pipe Cleaning - 18" Heavy [30318]	34	LF	4.50	153.00	
1	Pipe Cleaning - 15" Heavy [30308] - Pipe Collapsed	36	LF	4.00	144.00	
1	Pipe Cleaning - 15" Heavy [30200] - Pipe Collapsed	40	LF	4.00	160.00	
1	Pipe Cleaning - 15" Heavy [30303] - Unable to Clean, blocked by Hurricane Debris			0.00	0.00	
1	Video Recording - 3 Locations	73.57	LF	1.00	73.57	
<p><i>[Signature]</i> 9/26/17</p> <p>OK TO PAY - FY 16/17</p> <p>PO#: <u>20170178</u></p> <p>Acct#: 1120.5053200. <u>830460</u></p> <p>Goods Recd: <u>9 / 17 / 17</u></p> <p><i>[Signature]</i> 9/26/17</p> <p><i>[Signature]</i> 9/25/17</p>						
Thank you for your business.					Total	\$530.57

Balance Due \$530.57

BP
9/22



LAKE COUNTY
FLORIDA

Date: 8-14-2017

Estep Construction, Inc.
689 S. Binion Road, Apopka, FL 32703

Subject: Project Order Form
Contract No. 13-0607, Storm Water Pipe/Water Quality Unit
Cleaning, Video Recording and Related Services
Purchase Order No. 20150035

Dear Estep Construction:

Please find below a request for services under the Storm Water Pipe/Water Quality Unit Cleaning, Video Recording and Related Services Contract No. 13-0607. A description of the requested services and project specific information is listed below.

Any questions or discrepancies regarding the pipe size, length or amount of blockage must be addressed and agreed upon between the Contractor and the Project Manager prior to performing any work. Any work performed without agreement by all parties shall be paid in accordance with the terms and conditions of the Contract. Invoices should be sent to 12901 County Landfill Road, Tavares, FL 32778.

Pursuant to the Contract, all work shall begin within fourteen (14) calendar days from receipt of this notice. Please make sure to contact our office regarding the scheduling of this work.

PIPE LOCATION: Road Number: 3888 Segment Number: 3-3888-04 & 05

Road Name: CR 435 Address: 30303, 30200, 30308 and 303018 CR 435

Section: 32 Township: 19 Range: 28 Closest City: Mt. Plymouth

PIPE SPECIFICATIONS:

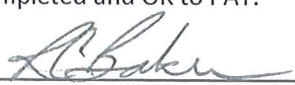
Diameter: 15" and 18" Length: below Number of Manholes/Inlets:

Percentage of Blockage: 10% or less 11% - 30% above 30% X

WORK DESCRIPTION:

Clean and video all pipes. Do 15" pipe at 30303 CR 435 first as length is unknown. 30200 CR 435 is

15" X 40' length, 30308 CR 435 is 15" X 36" length and 303018 CR 435 is 18" X 34' length

Work Completed and OK to PAY: <u>9-7-17</u>	Invoice # <u>965</u>
 Inspected by	<u>9-25-17</u> Date

Project Information

PROJECT NAME: 16-17/H	CREATED: 2017.09.05	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

Customer: Lake County

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Project Leader: James Rash

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Contractor: Estep Construction Inc

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

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Section List

PROJECT NAME: 16-17/H	CREATED: 2017.09.05	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

No.	Section	City	Street	Length	Length Total	Date
1	30318 - 30318 A		C.R. 435	✓34.41 ft	34.41 ft	2017.09.05
2	30308 - 30308 A		C.R. 435	✓10.17 ft	44.58 ft	2017.09.06
2	30308 - 30308 A (2)		C.R. 435	✓6.72 ft	51.30 ft	2017.09.06
4	30200 - 30200 A		C.R. 435	✓14.76 ft	66.06 ft	2017.09.07
4	30200 - 30200 A (2)		C.R. 435	✓7.51 ft	73.57 ft	2017.09.07
				73.57 ft	73.57 ft	

Defect Grade Description

PROJECT NAME: 16-17/H	CREATED: 2017.09.05	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

1	<p style="color: green; font-weight: bold;">Excellent Condition</p> <p style="color: green;">Minor Defects - Failure unlikely in the foreseeable future.</p>
2	<p style="color: blue; font-weight: bold;">Good Condition</p> <p style="color: blue;">Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
3	<p style="color: orange; font-weight: bold;">Fair Condition</p> <p style="color: orange;">Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
4	<p style="color: red; font-weight: bold;">Poor Condition</p> <p style="color: red;">Severe defects that will become grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
5	<p style="color: magenta; font-weight: bold;">Immediate Attention</p> <p style="color: magenta;">Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

Section Protocol

SECTION NAME: 30318 - 30318 A	SECTION NUMBER: 1	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 30318	DOWNSTREAM MANHOLE NUMBER: 30318 A	
MUNICIPAL:	START NODE STREET NAME: C.R. 435	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 34.41 ft
INSPECTION DATE: 2017.09.05	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Corrugated metal pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 15	
PRE-CLEANED: Heavy Cleaning	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 300	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		AEP	End of Pipe, 30318	00:00:04	
	4.85 ft		MMC	Material Change, Reinforced concrete pipe	00:00:43	
	12.46 ft		CM	Crack Multiple, from 5 o'clock, to 7 o'clock, within 8 inch	00:01:37	0000
	19.32 ft		RFJ	Roots Fine Joint, at 6 o'clock, within 8 inch	00:02:15	0001
	20.37 ft		JSM	Joint Separated Medium, 0 ° displacement	00:02:47	0002
	28.50 ft		MMC	Material Change, Corrugated metal pipe	00:03:35	0003
	34.41 ft		AEP	End of Pipe, 30318 A	00:03:52	

Section Protocol

SECTION NAME: 30308 - 30308 A	SECTION NUMBER: 2	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 30308	DOWNSTREAM MANHOLE NUMBER: 30308 A	
MUNICIPAL:	START NODE STREET NAME: C.R. 435	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 10.17 ft
INSPECTION DATE: 2017.09.06	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Polyethylene	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 15	
PRE-CLEANED: Heavy Cleaning	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 150	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		AEP	End of Pipe, 30308	00:00:02	
	10.07 ft		MSA	Survey Abandoned, Can't get past roots. Performing reverse inspection.	00:00:58	
	10.17 ft		RTB	Roots Tap Barrell, at 12 o'clock, 60 % of cross sectional area	00:00:45	0000, 0001

Section Protocol

SECTION NAME: 30308 - 30308 A (2)	SECTION NUMBER: 2	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 30308	DOWNSTREAM MANHOLE NUMBER: 30308 A
MUNICIPAL:	START NODE STREET NAME: C.R. 435
LOCATION CODE:	DIRECTION OF SURVEY: Upstream
	CALCULATED LENGTH: 6.72 ft
INSPECTION DATE: 2017.09.06	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Polyethylene
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 15
PRE-CLEANED: Heavy Cleaning	SEWER SHAPE: Circular
COMMON REMARKS: Reverse set up	

1 : 100	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	30308 A		MGO	Reversal Inspection, 30308 A to 30308	00:00:02	
		0.00 ft	AEP	End of Pipe, 30308 A	00:00:08	
		6.72 ft	XP	Collapse Pipe Sewer, 65 % lost	00:00:31	0000
		6.72 ft	MSA	Survey Abandoned, Can't get past collapse. Survey incomplete.	00:00:35	

First video

Section Protocol

Reversal Inspection

SECTION NAME: 30200 - 30200 A	SECTION NUMBER: 4	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 30200	DOWNSTREAM MANHOLE NUMBER: 30200 A	
MUNICIPAL:	START NODE STREET NAME: C.R. 435	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 14.76 ft
INSPECTION DATE: 2017.09.07	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Polyethylene	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 15	
PRE-CLEANED: Heavy Cleaning	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 150	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		AEP	End of Pipe, 30200	00:00:02	
	8.50 ft		RFB	Roots Fine Barrell, at 9 o'clock	00:00:30	0000
	14.27 ft		RMB	Roots Medium Barrell, at 1 o'clock, 30 % lost	00:00:57	0001
	14.76 ft		MSA	Survey Abandoned, Can't get past roots. Performing reverse inspection.	00:01:14	

Section Protocol

SECTION NAME: 30200 - 30200 A (2)	SECTION NUMBER: 4	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 30200	DOWNSTREAM MANHOLE NUMBER: 30200 A	
MUNICIPAL:	START NODE STREET NAME: C.R. 435	
LOCATION CODE:	DIRECTION OF SURVEY: Upstream	CALCULATED LENGTH: 7.51 ft
INSPECTION DATE: 2017.09.07	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Polyethylene	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 15	
PRE-CLEANED: Heavy Cleaning	SEWER SHAPE: Circular	
COMMON REMARKS: Reverse set up		

1 : 100	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	30200 A		AEP	End of Pipe, 30200 A	00:00:02	
	0.00 ft		MGO	Reversal Inspection, 30200 A to 30200	00:00:04	
	7.51 ft		XP	Collapse Pipe Sewer, 80 % lost	00:00:35	0000
	7.51 ft		MSA	Survey Abandoned, Can't get past callase. Inspection incomplete.	00:00:40	



First video

30200 <- 30200 A

-0.99 %
7.52 ft

2017-09-07 15 02 50

Second video

30200 -> 30200 A

1.80 %
8.48 ft

2017-09-07 14 55 44

