

# Estep Construction, Inc.

820 S Duncan Drive  
Tavares, FL 32778

RECEIVED

FEB - 1 2017

LAKE COUNTY  
ROAD OPERATIONS

# Invoice

Date	Invoice #
2/1/2017	868

<b>Bill To</b>
Lake County PW 12901 County Landfill Rd PO Box 7800 Tavares, FL 32778

<b>CC/Ship To:</b>
Contract #16-0607 mod 4 PO #20170178 2295-2365 Lakeshore Dr Clean & Video

P.O./Contract #	Terms	Due Date	Ship Date	Ship Via	Project
20170178	Due on receipt	2/1/2017	2/1/2017		16-17/D

Item	Description	Quantity		Unit Pr...	Amount
	2295 - 2365 Lakeshore Dr				
1	Pipe Cleaning - 18" Heavy	372	LF	4.50	1,674.00
1	Pipe Cleaning - 24" Heavy	478	LF	5.00	2,390.00
1	Video Recording	850	LF	1.00	850.00

*JK* 2/1/2017

OK TO PAY - FY 16/17

PO#: 20170178  
Acct#: 1120.5053200. 830400  
Goods Recd: 1/126/17  
KK 02-01-17  
9/1 2/1/17

Thank you for your business.

*ABB 2-8-17*

**Total**

\$4,914.00

**Balance Due**

\$4,914.00



LAKE COUNTY  
FLORIDA

Date: 1-12-17

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: 1040 Segment Number: 2-1040-65

Road Name: Lakeshore Dr. Address: 2295 to 2365 Lakeshore Dr.

Section: 31 Township: 22 Range: 26 Closest City: Clermont

PIPE SPECIFICATIONS:

Diameter: 18" & 24" Length: 965' LF Number of Manholes/Inlets: seven (7)

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

WORK DESCRIPTION:

Clean and video pipes running north to south on the east side of Lakeshore Dr. between the addresses  
listed above.

Work Completed and OK to PAY:	<u>Robert Baker</u>	Invoice #	<u>868</u>
	<u>Robert Baker</u>		<u>2/8/2017</u>
	Inspected by		Date



# LAKE COUNTY FLORIDA

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Work Completed and OK to PAY: _____	Invoice # _____
Inspected by _____	Date _____

BP  
1/12

### Project Information

PROJECT NAME: 16-17/D	CREATED: 2017.01.26	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:

## Table Of Contents

PROJECT NAME: 16-17/D	CREATED: 2017.01.26	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

Project Information	Page 1
Table Of Contents	Page 2
Section List	Page 3
Defect Grade Description	Page 4
Section: 2365 - 2317A	Page 5
Section: 2317B - 2305	Page 6
Section: 2317A - 2317B	Page 7
Section: 2295 - 2301	Page 8
Section: 2301 - 2305	Page 9

### Section List

PROJECT NAME: 16-17/D	CREATED: 2017.01.26	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	2365 - 2317A		Lakeshore Dr.	360.28 ft	360.28 ft	2017.01.26
2	2317B - 2305		Lakeshore Dr.	190.01 ft	550.29 ft	2017.01.26
3	2317A - 2317B		Lakeshore Dr.	12.10 ft	562.39 ft	2017.01.26
4	2295 - 2301		Lakeshore Dr.	136.12 ft	698.51 ft	2017.01.26
5	2301 - 2305		Lakeshore Dr.	152.19 ft	850.70 ft	2017.01.31
				850.70 ft	850.70 ft	

## Defect Grade Description

PROJECT NAME: 16-17/D	CREATED: 2017.01.26	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

1	<p style="color: green;">Excellent Condition</p> <p style="color: green;">Minor Defects - Failure unlikely in the foreseeable future.</p>
2	<p style="color: blue;">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;">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: orange;">Poor Condition</p> <p style="color: orange;">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: red;">Immediate Attention</p> <p style="color: red;">Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

## Section Protocol

SECTION NAME: 2365 - 2317A	SECTION NUMBER: 1	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2365	DOWNSTREAM MANHOLE NUMBER: 2317A
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.
LOCATION CODE:	DIRECTION OF SURVEY: Downstream
	CALCULATED LENGTH: 360.28 ft
INSPECTION DATE: 2017.01.26	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Corrugated metal pipe
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 18
PRE-CLEANED:	SEWER SHAPE: Circular
COMMON REMARKS:	

1: 11000	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
			ACB	Catch Basin, 2365	00:00:03	
			ACB	Catch Basin, 2317A	00:18:39	



## Section Protocol

SECTION NAME: 2317B - 2305	SECTION NUMBER: 2	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2317B	DOWNSTREAM MANHOLE NUMBER: 2305	
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 190.01 ft
INSPECTION DATE: 2017.01.26	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Reinforced concrete pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 24	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 1250	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	2317B					
	0.00 ft		ACB	Catch Basin, 2317B	00:00:03	
	4.03 ft		MMC	Material Change, Reinforced concrete pipe, perforated	00:00:54	0001
	11.87 ft		CL	Crack Longitudinal, at 12 o'clock, within 8 inch	00:01:23	0002
	27.62 ft		CL	Crack Longitudinal, at 1 o'clock, within 8 inch	00:02:20	0003
	43.95 ft		SRV	Surface Reinforcement Visible, at 4 o'clock, within 8 inch	00:03:16	0005
	43.95 ft		SRV	Surface Reinforcement Visible, at 9 o'clock, within 8 inch	00:03:05	0004
	147.73 ft		CL	Crack Longitudinal, at 12 o'clock, within 8 inch	00:09:29	
	160.10 ft		SRV	Surface Reinforcement Visible, at 10 o'clock	00:10:20	0006
	190.01 ft		ACB	Catch Basin, 2305	00:12:22	
	2305					

## Section Protocol

SECTION NAME: 2317A - 2317B	SECTION NUMBER: 3	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2317A	DOWNSTREAM MANHOLE NUMBER: 2317B	
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.	
LOCATION CODE:	DIRECTION OF SURVEY: Upstream	CALCULATED LENGTH: 12.10 ft
INSPECTION DATE: 2017.01.26	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Corrugated metal pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 18	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 350	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	2317B		ACB	Catch Basin, 2317B	00:00:02	
			AMH	Manhole, 2317A	00:01:13	

## Section Protocol

SECTION NAME: 2295 - 2301	SECTION NUMBER: 4	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2295	DOWNSTREAM MANHOLE NUMBER: 2301	
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.	
LOCATION CODE:	DIRECTION OF SURVEY: Upstream	CALCULATED LENGTH: 136.12 ft
INSPECTION DATE: 2017.01.26	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Corrugated metal pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 24	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS: Structure located on north east corner of Brogden Dr and Lakeshore		

1 : 3150	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	2301		ACB	Catch Basin, 2301. Bottom of structure not even with pipe. Starting inside pipe.	00:00:03	
	2295		ACB	Catch Basin, 2295	00:06:45	

## Section Protocol

SECTION NAME: 2301 - 2305	SECTION NUMBER: 5	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2301	DOWNSTREAM MANHOLE NUMBER: 2305	
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 152.19 ft
INSPECTION DATE: 2017.01.31	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Reinforced concrete pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 24	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 850	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	2301					
	0.00 ft		ACB	Catch Basin, 2301. Bottom of structure not even with pipe. Starting inside pipe.	00:00:07	
	16.07 ft		CL	Crack Longitudinal, at 1 o'clock, within 8 inch	00:01:09	0000
	31.06 ft		CL	Crack Longitudinal, at 12 o'clock, within 8 inch	00:01:57	0001
	67.17 ft		CL	Crack Longitudinal, at 12 o'clock, within 8 inch	00:04:16	0002
	83.51 ft		TB	Tap Break-In, at 12 o'clock, 12 inch dim	00:05:22	0003
	95.48 ft		RMJ	Roots Medium Joint, at 4 o'clock, 5 % lost	00:06:03	0004
	104.27 ft		MGO	General Observation, Purforation holes	00:07:00	0005
	110.93 ft		RMJ	Roots Medium Joint, at 4 o'clock, 10 % lost	00:07:18	0006
	112.14 ft		CL	Crack Longitudinal, at 12 o'clock, within 8 inch	00:07:45	0007
	152.19 ft		ACB	Catch Basin, 2305	00:10:53	
	2305					







