



THE CITY OF NASHUA

*Division of Public Works
Administration*

"The Gate City"

Board of Public Works Special Meeting of April 8, 2020

Agenda

A meeting of the Board of Public Works is scheduled for Wednesday, April 8, 2020 at 2:00 p.m. via WebEx Conference Call.

I. Roll Call

II. Motion: To approve the agenda as presented.

III. Solid Waste

A. Motion: To approve a contract with Milton Cat of Londonderry, NH to perform a Caterpillar Certified Rebuild to the Solid Waste compactor #052 for a cost not to exceed \$500,000. Funding will be through: Department: 168 Solid Waste; Fund: Solid Waste; Activity; CERF.

IV. Engineering

B. Motion: To approve Change Order #2 for the 2019 CIPP Lining Project with Kenyon Pipeline Inspection of Queensbury, NY for an amount not to exceed \$1,500,000. Funding will be through Department: 169 Wastewater; Fund: Bond; Activity: Sewer Infrastructure Improvements.

C. Commissioner's Comments

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: April 8, 2020

From: Jeff Lafleur, Superintendent
Solid Waste Department

Re: Caterpillar Certified Rebuild for Compactor #052

A. Motion: To approve a contract with Milton Cat of Londonderry, NH to perform a Caterpillar Certified Rebuild to the Solid Waste compactor #052 for a cost not to exceed \$500,000. Funding will be through: Department: 168 Solid Waste; Fund: Solid Waste; Activity; CERF.

Attachments: Service History for Compactor #052

Discussion: Compactor #052 is a 1999 Caterpillar 826G with approximately 17,000 hours. Compactor #052 has been out of service since September 2018 due to major engine, hydraulic and electrical harness failures. #052 was the backup compactor for Compactor #080 until the time of the failures. Attempts were made using the Dozer at the land fill as a backup during times of maintenance and repairs to #080. The Dozer does not have the weight or compaction required for this function.

Milton Cat of Londonderry has proposed a Caterpillar Certified Rebuild for compactor #052. The Caterpillar Certified Rebuild entails striping the compactor down to the base frame. Then performs rebuilds to the engine and driveline, replace all hydraulic hoses and cylinders, replace electrical harnesses, recondition, paint, reseal and check every component for proper function and operation. The operators cab and rebuilt wheels are also included in the certified rebuild. This will bring the compactor to a like new appearance and operational ability at a significant savings over the purchase of a new compactor.

The proposal from Milton Cat includes a 4 year / 6000 hour warranty and all scheduled service maintenance for the warranty period.



ARCHIVE FACILITY

VEHICLE REPAIR HISTORY REPORT

FACILITY: 00999

STARTING VMRS CODE: 000-000-000
ENDING VMRS CODE: 999-999-999

DATE: FIRST
DATE: LAST

VEHICLE: 052
VEHICLE: 052

UNIT: 052	LF MTR: 16929.0	CUR MTR: 16910.0	YR: 99	MAKE: CAT	DEPT: SOLIDWASTE	SIZE: H	CLASS: WASTE CO	FUEL: D					
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC	RC	WA
001		TITLE >	AIR CONDITION,HEAT										
001-000-000	06162016	0007045	16930	16910	AIR CONDITION,HEAT	OUT	5648.88	0.00	5648.88	0.00	1	4	4
001-000-000	06182008	7081054	0	19-	AIR CONDITION,HEAT		40.00	64.52	104.52	3.00 TOML	02	8	13
001-048-000	03032017	0007820	16930	16910	CABIN AIR FILTER		14.86	71.13	85.99	3.00 DAN	1	4	3
001		TOTAL >	AIR CONDITION,HEAT				5703.74	135.65	5839.39				
002		TITLE >	CAB/SHEET METALS										
002-006-000	08212018	0009422	16930	16910	HOOD LATCH	OUT	3231.84	0.00	3231.84	0.00	1	4	3
002-009-000	07312014	0004693	16990	16991	MIRROR		158.93	37.47	196.40	1.50 JOE A	1	4	3
002-029-000	06162016	0007045	16930	16910	DRIVERS SEAT	OUT	3812.27	0.00	3812.27	0.00	1	4	3
002		TOTAL >	CAB/SHEET METALS				7203.04	37.47	7240.51				
006		TITLE >	MILLING MACHINE										
006-000-000	04012008	708784	0	19-	MILLING MACHINE		95.40	0.00	95.40	0.00	02	8	13
006		TOTAL >	MILLING MACHINE				95.40	0.00	95.40				
032		TITLE >	CRANKING SYSTEM										
032-001-000	01192017	0007614	16930	16910	BATTERIES		254.67	108.32	362.99	4.00 Rick	1	4	3
032-002-000	01232017	0007614	16930	16910	STARTER	OUT	4140.50	0.00	4140.50	0.00	1	4	3
032-002-000	05142013	0003305	16470	16474	STARTER		0.00	65.85	65.85	3.00 RALPH	1	4	13
032-002-000	05142013	0003305	16470	16474	STARTER		529.92	72.39	602.31	3.00 TOMK	1	4	13
032		TOTAL >	CRANKING SYSTEM				4925.09	246.56	5171.65				
041		TITLE >	AIR INTAKE SYSTEM										
041-001-000	03132017	0007872	16930	16910	AIR FILTER ELEMENT		71.85	47.42	119.27	2.00 TOML	1	4	3
041		TOTAL >	AIR INTAKE SYSTEM				71.85	47.42	119.27				
042		TITLE >	COOLING SYSTEM										
042-037-000	05142013	0003305	16470	16474			0.00	122.15	122.15	5.00 ED	1	4	13
042-037-000	05142013	0003305	16470	16474			38.87	122.15	161.02	5.00 JOEA	1	4	13
042		TOTAL >	COOLING SYSTEM				38.87	244.30	283.17				
043		TITLE >	EXHAUST SYSTEM										
043-007-000	11152017	0008548	16930	16910	MUFFLER		1288.13	379.12	1667.25	14.00 DARYL	1	4	3
043		TOTAL >	EXHAUST SYSTEM				1288.13	379.12	1667.25				
044		TITLE >	FUEL SYSTEM										
044-000-000	03132017	0007872	16930	16910	FUEL SYSTEM		19.29	7.11	26.40	0.30 TOML	1	4	3



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UNIT: 052	LF MTR: 16929.0	CUR MTR: 16910.0	YR: 99	MAKE: CAT	DEPT: SOLIDWASTE	SIZE: H	CLASS: WASTE CO	FUEL: D					
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC	RC	WA
044-000-000	05112011	1112911	0	19-	FUEL SYSTEM		79.99	21.95	101.94	1.00 TOML	1	10	13
044-006-000	01032019	0009750	16930	16910	FUEL FILTERS		8.91	48.98	57.89	2.00 TOML	1	4	3
044-006-000	05272014	0004388	16990	16991	FUEL FILTERS		10.66	50.78	61.44	2.20 Rick	1	4	3
044-006-000	01302014	0004027	16760	16764	FUEL FILTERS		145.33	45.78	191.11	2.00 Rick	1	4	3
044-006-000	10212013	0003679	16620	16619	FUEL FILTERS		24.24	47.87	72.11	2.00 TOMK	1	4	3
044-024-000	06242013	0003405	16470	16474	HAND THROTTLE CABL		3.09	71.81	74.90	3.00 TOMK	1	4	3
044-024-000	11052012	0003090	16360	16355	HAND THROTTLE CABL		22.51	43.90	66.41	2.00 CHAD	1	11	13
044-024-000	12192007	708496	0	19-	HAND THROTTLE CABL		20.85	43.31	64.16	2.00 TOML	02	8	13
044-042-000	05032018	0009145	16930	16910	THROTTLE CABLE	OUT	1452.00	0.00	1452.00	0.00	1	4	3
044-046-000	01232008	708600	0	19-			69.15	0.00	69.15	0.00	02	8	13
044-046-000	11152007	708408	0	19-			67.54	0.00	67.54	0.00	02	8	13
044		TOTAL >	FUEL SYSTEM				1923.56	381.49	2305.05				
045		TITLE >	POWER PLANT										
045-034-000	02032017	0007728	16930	16910	OIL FILLER CAP		24.77	0.00	24.77	0.00	1	4	3
045		TOTAL >	POWER PLANT				24.77	0.00	24.77				
046		TITLE >	ELECTRIC PROPULSION										
046-000-000	09242012	0002957	0	19-	ELECTRIC PROPULSIO		0.00	73.29	73.29	3.00 ED	1	11	13
046-000-000	09242012	0002957	0	19-	ELECTRIC PROPULSIO		334.89	73.29	408.18	3.00 JOES	1	11	13
046		TOTAL >	ELECTRIC PROPULSION				334.89	146.58	481.47				
051		TITLE >	GENERAL ACCESSORIES										
051-003-000	08052014	0004726	16810	16810	FIRE EXTINGUISHER		12.45	74.13	86.58	3.00 CHRIS	1	4	4
051		TOTAL >	GENERAL ACCESSORIES				12.45	74.13	86.58				
065		TITLE >	HYDRAULIC										
065-000-000	09262018	0009515	16930	16910	HYDRAULIC	OUT	1375.81	0.00	1375.81	0.00	1	4	4
065-000-000	04162014	0004335	16990	16991	HYDRAULIC		0.00	95.54	95.54	4.00 Rick	1	4	1
065-000-000	03202014	0004227	16990	16991	HYDRAULIC		31.09	149.88	180.97	6.00 JOES	1	4	3
065-000-000	02152012	0002743	0	19-	HYDRAULIC		44.61	48.26	92.87	2.00 TOMK	1	8	13
065-000-000	02212008	708679	0	19-	HYDRAULIC		11.82	0.00	11.82	0.00	02	8	13
065-000-000	08232007	708153	0	19-	HYDRAULIC		126.55	0.00	126.55	0.00	02	8	13
065-005-000	03182015	0005588	16830	16810	PRESSURE LINES	OUT	1456.06	0.00	1456.06	0.00	1	4	3
065-006-000	04112017	0008004	16930	16910	RETURN LINES	OUT	1005.47	0.00	1005.47	0.00	2	4	3
065		TOTAL >	HYDRAULIC				4051.41	293.68	4345.09				
066		TITLE >	PREVENTIVE MAINT.										
066-000-000	02182009	809793	0	19-	PREVENTIVE MAINT.		95.40	0.00	95.40	0.00	02	8	13



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VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC	RC	WA
066-000-000	08052008	809108	0	19-	PREVENTIVE MAINT.		73.10	0.00	73.10	0.00	02	8	13
066-000-000	09292008	809317	0	19-	PREVENTIVE MAINT.		12.00	0.00	12.00	0.00	02	8	13
066-000-000	10292009	910392	0	19-	PREVENTIVE MAINT.		20.85	65.42	86.27	3.00 JOEA	XX	1	7
066-002-000	08142012	0121061	0	19-	PM B INSPECTION		67.29	43.90	111.19	2.00 CHAD	1	1	13
066-002-000	05222012	0121038	0	19-	PM B INSPECTION		55.19	21.95	77.14	1.00 CHAD	1	8	7
066-002-000	01102012	1112536	0	19-	PM B INSPECTION		0.00	43.90	43.90	2.00 CHAD	1	8	7
066-002-000	01102012	1112536	0	19-	PM B INSPECTION		20.85	48.86	69.71	2.00 JOES	1	8	7
066-002-000	06032011	1112954	0	19-	PM B INSPECTION		0.00	24.13	24.13	1.00 TED	1	8	13
066-002-000	06032011	1112954	0	19-	PM B INSPECTION		20.85	21.95	42.80	1.00 RALPH	1	8	7
066-002-000	01052011	1112502	0	19-	PM B INSPECTION		20.85	20.20	41.05	1.00 RALPH	02	1	1
066-002-000	04222010	9101037	0	19-	PM B INSPECTION		20.85	19.69	40.54	1.00 TOML	02	1	13
066-002-000	06102008	708261	0	19-	PM B INSPECTION		95.40	0.00	95.40	0.00	02	8	13
066-002-000	02042010	910694	0	19-	PM B INSPECTION		20.85	43.61	64.46	2.00 JOEA	02	1	7
066-005-000	06162016	0007045	16930	16910	PM E INSPECTION	OUT	950.00	0.00	950.00	0.00	1	4	8
066-005-000	08282015	0006114	16930	16910	PM E INSPECTION		0.00	70.89	70.89	3.00 DARYL	1	4	8
066-005-000	09162014	0004882	16830	16810	PM E INSPECTION	OUT	1150.00	0.00	1150.00	0.00	1	4	8
066-005-000	03142013	0003607	16470	16474	PM E INSPECTION	OUT	0.00	0.00	0.00	0.00	1	8	8
066-010-000	09162014	0004902	16830	16810	CABIN FILTER		15.60	0.00	15.60	0.00	1	4	3
066		TOTAL >		PREVENTIVE MAINT.			2639.08	424.50	3063.58				
099		TITLE >		PAVER									
099-002-000	07302018	0009364	16930	16910	FUEL FILTER		9.35	97.96	107.31	4.00 TOML	1	4	3
099-002-000	10192017	0008502	16930	16910	FUEL FILTER		22.28	24.49	46.77	1.00 TOML	1	4	3
099-002-000	03012017	0007820	16930	16910	FUEL FILTER		9.68	32.50	42.17	1.20 Rick	1	4	3
099-002-000	03012017	0007820	16930	16910	FUEL FILTER		22.69	32.50	55.18	1.20 Rick	1	4	3
099-002-000	01302017	0007716	16930	16910	FUEL FILTER		9.57	47.42	56.99	2.00 TOML	1	4	3
099-002-000	03102016	0006723	16930	16910	FUEL FILTER		24.64	60.03	84.67	2.50 DARYL	1	4	3
099-002-000	08282015	0006114	16930	16910	FUEL FILTER		9.63	23.63	33.26	1.00 DARYL	1	4	3
099		TOTAL >		PAVER			107.84	318.53	426.37				
101		TITLE >		ROAD CALL									
101-000-000	03012017	0007820	16930	16910	ROAD CALL		0.00	32.50	32.50	1.20 Rick	1	4	1
101-000-000	03012017	0007820	16930	16910	ROAD CALL		0.00	32.50	32.50	1.20 Rick	1	4	1
101-000-000	01302017	0007716	16930	16910	ROAD CALL		0.00	47.42	47.42	2.00 TOML	1	4	3
101-000-000	07302014	0004693	16990	16991	ROAD CALL		0.00	34.34	34.34	1.50 Rick	1	4	1
101-000-000	05272014	0004388	16990	16991	ROAD CALL		194.25	99.92	294.17	4.00 TOMK	1	4	3
101-001-000	10192017	0008502	16930	16910	LANDFILL		0.00	48.98	48.98	2.00 TOML	1	4	1
101-001-000	08282015	0006114	16930	16910	LANDFILL		0.00	47.26	47.26	2.00 DARYL	1	4	1



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UNIT: 052	LF MTR: 16929.0	CUR MTR: 16910.0	YR: 99	MAKE: CAT	DEPT: SOLIDWASTE	SIZE: H	CLASS: WASTE CO	FUEL: D					
VMRS Code	DATE	WO NUM	LF-UNTS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS MECHANIC	CC	RC	WA
101		TOTAL >	ROAD CALL				194.25	342.92	537.17				
102		TITLE >	PLOW CONTROL										
102-000-000	05202010	910949	0	19-	PLOW CONTROL		361.60	86.02	447.62	4.00 TOML	02	8	13
102-000-000	03282008	708799	0	19-	PLOW CONTROL		31.85	0.00	31.85	0.00	02	8	13
102		TOTAL >	PLOW CONTROL				393.45	86.02	479.47				
114		TITLE >	AUTOMATED ARM										
114-000-000	05312012	0121055	0	19-	AUTOMATED ARM		0.00	43.90	43.90	2.00 CHAD	1	8	13
114-000-000	05312012	0121055	0	19-	AUTOMATED ARM		21.82	48.26	70.08	2.00 GUS	1	8	13
114-000-000	09112010	1011144	0	19-	AUTOMATED ARM		0.00	46.98	46.98	2.00 DAVE	02	1	13
114-000-000	09272010	1011144	0	19-	AUTOMATED ARM		80.88	0.00	80.88	0.00	02	1	13
114-000-000	09112010	1011144	0	19-	AUTOMATED ARM		1072.32	80.80	1153.12	4.00	02	1	13
114		TOTAL >	AUTOMATED ARM				1175.02	219.94	1394.96				
119		TITLE >	COMPACTOR										
119-000-000	03202015	0005588	16830	16810	COMPACTOR		0.00	404.48	404.48	16.00 Rick	1	4	4
119		TOTAL >	COMPACTOR				0.00	404.48	404.48				
131		TITLE >	CUTTING EDGE										
131-000-000	08052014	0004726	16810	16810	CUTTING EDGE		0.00	24.71	24.71	1.00 CHRIS	1	4	1
131-000-000	05192008	708985	0	19-	CUTTING EDGE		20.85	87.22	108.07	4.00 JOEA	02	8	13
131-000-000	09052007	708153	0	19-	CUTTING EDGE		0.00	19.69	19.69	1.00 TOML	02	8	13
131-000-000	06232009	8091291	0	19-	CUTTING EDGE		20.85	19.69	40.54	1.00 RALPH	02	8	13
131-000-000	05012009	8091147	0	19-	CUTTING EDGE		25.43	43.61	69.04	2.00 GUS	02	8	13
131-000-000	12312008	809629	0	19-	CUTTING EDGE		20.85	46.64	67.49	2.00 REN	02	8	13
131-000-000	09292008	809317	0	19-	CUTTING EDGE		93.95	64.97	158.92	3.00 JOES	02	8	13
131		TOTAL >	CUTTING EDGE				181.93	306.53	488.46				



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METER: STANDARD			SUBTOTALS OF VMRS CODES FOR DIVISION > AL			PERIOD: CURRENT		TOT COST
VMRS CODE	QUANTITY	LABOR HRS	LABOR COST	PARTS COST	TOTAL COST	PERCENT	/METER	
001	AIR CONDITION,HEAT	3	6.00	135.65	5703.74	5839.39	16.95%	49.07050
002	CAB/SHEET METALS	3	1.50	37.47	7203.04	7240.51	21.01%	60.84462
006	MILLING MACHINE	1	0.00	0.00	95.40	95.40	0.28%	0.80168
032	CRANKING SYSTEM	4	10.00	246.56	4925.09	5171.65	15.01%	43.45924
041	AIR INTAKE SYSTEM	1	2.00	47.42	71.85	119.27	0.35%	1.00227
042	COOLING SYSTEM	2	10.00	244.30	38.87	283.17	0.82%	2.37958
043	EXHAUST SYSTEM	1	14.00	379.12	1288.13	1667.25	4.84%	14.01050
044	FUEL SYSTEM	12	16.50	381.49	1923.56	2305.05	6.69%	19.37017
045	POWER PLANT	1	0.00	0.00	24.77	24.77	0.07%	0.20815
046	ELECTRIC PROPULSION	2	6.00	146.58	334.89	481.47	1.40%	4.04597
051	GENERAL ACCESSORIES	1	3.00	74.13	12.45	86.58	0.25%	0.72756
065	HYDRAULIC	8	12.00	293.68	4051.41	4345.09	12.61%	36.51336
066	PREVENTIVE MAINT.	19	19.00	424.50	2639.08	3063.58	8.89%	25.74437
099	PAVER	7	12.90	318.53	107.84	426.37	1.24%	3.58294
101	ROAD CALL	7	13.90	342.92	194.25	537.17	1.56%	4.51403
102	PLOW CONTROL	2	4.00	86.02	393.45	479.47	1.39%	4.02916
114	AUTOMATED ARM	5	10.00	219.94	1175.02	1394.96	4.05%	11.72235
119	COMPACTOR	1	16.00	404.48	0.00	404.48	1.17%	3.39899
131	CUTTING EDGE	7	14.00	306.53	181.93	488.46	1.42%	4.10471
TOTALS:		87	170.80	4089.32	30364.77	TOT: 34454.09	100.00%	89.53017

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: April 8, 2020

From: Daniel Hudson, P.E., City Engineer
Engineering Department

Re: 2019 CIPP Lining Project
Change Order #2

B. Motion: To approve Change Order #2 for the 2019 CIPP Lining Project with Kenyon Pipeline Inspection of Queensbury, NY for an amount not to exceed \$1,500,000. Funding will be through Department: 169 Wastewater; Fund: Bond; Activity: Sewer Infrastructure Improvements.

Attachments: 2019 CIPP Lining Project Change Order #2

Discussion: Kenyon Pipeline Inspection was the low bidder of the 2019 CIPP Lining Project and we have found their work to be satisfactory. A previous Change Order 1 was approved (no-cost change order). The purpose of this Change Order #2 is to provide additional funding for lining of deteriorated sewer pipes, as identified through previous video inspection, and to complete cleaning, video inspection, and lining of additional sewer pipes throughout the City.

Over the course of the existing contract with Kenyon and though our other video inspection work on our aging and deteriorating sewer system, the need for additional inspection and lining has been identified. Over 10,000 linear feet of pipe has been identified as needing lining and we expect additional priority needs will be identified through continued pipe assessment. The Engineering Department would like to continue to use the services of Kenyon and seeks a \$1.5M change order to continue to clean, video inspect, and line deteriorated sewer pipes throughout the City. Kenyon has agreed to hold their original bid prices for this change order.

Assessing sewer pipes enables us to identify pipes in need of repair and address them before they deteriorate to the point of needing complete replacement, which is significantly more expensive and disruptive to the public. Pipe lining is substantially less expensive than pipe replacement, and is the most economical option for sewer pipe rehabilitation.

CHANGE ORDER

No. 2

PROJECT: 2019 CIPP Lining Project

OWNER'S CONTRACT NO: IFB1087-021219

EXECUTED CONTRACT DATE: 04/19/19

DATE OF ISSUANCE: 04/13/20 EFFECTIVE DATE: Upon City Approval

OWNER: City of Nashua, NH

OWNER's Purchase Order NO.: 148060

CONTRACTOR: Kenyon Pipeline Inspection, LLC

ENGINEER: DPW Engineering

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

Description:

The additional video provided by Kenyon through Change Order 1 has revealed more crumbling sewer pipes throughout the City. Most of these pipes are still intact enough to enable them to be lined with an epoxy-infused felt liner, providing many more years of service life. The Division of Public Works Engineering Department would like to continue to utilize Kenyon's services to clean, video inspect, and line sewer pipes throughout Nashua by extending the existing contract under this Change Order 2.

Justification:

In order to prevent existing sewer infrastructure from deteriorating to the point that it needs complete replacement, the Division of Public Works Engineering Department proposes to extend Kenyon's existing 2019 CIPP Lining Contract into 2020 by awarding a \$1.5M change order to clean, video inspect, and line additional sewer pipe throughout the City.

Summary

<u>CHANGE IN CONTRACT PRICE:</u>		<u>CHANGE IN CONTRACT TIMES:</u>	
Original Contract Price \$2,825,135.00		Original Contract Times Substantial completion: October 30, 2019 Ready for final payment: November 29, 2019	
Net changes from previous Change Orders \$0		Net change from previous Change Orders 30 days	
Contract Price prior to this Change Order \$2,825,135.00		Contract Times prior to this Change Order Substantial completion: November 29, 2019 Ready for final payment: December 29, 2019	
Net Increase (decrease) of this Change Order \$1,500,000.00		Net Increase (decrease) of this Change Order 365 days	
Contract Price with all approved Change Orders \$4,325,135.00		Contract Times with all approved Change Orders Substantial completion: November 29, 2020 Ready for final payment: December 29, 2020	
<u>RECOMMENDED:</u>	<u>ACCEPTED:</u>	<u>APPROVED:</u>	
By: _____ DPW Engineer (Authorized Signature)	By: _____ Contractor (Authorized Signature)	By: _____ Mayor Jim Donchess Owner (Authorized Signature)	
Date: _____	Date: _____	Date: _____	