A.L. FRANKS ENGINEERING

118 East Broad Street
Texarkana, AR 71854
PHONE 870.216.1906 • FAX 870.216.1907

March 06, 2017

Ms. Jacqueline Trotta
Enforcement Analyst
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: City of Magnolia Status Report
AFIN: 14-00059 NPDES Permit No. AR0043613

Dear Ms. Trotta:

As you are aware from previous correspondence, the City of Magnolia Wastewater Department has, for the past 12 months, been manually diverting the sludge blowdown and backwash water received from the Municipal Water Treatment Plant directly to the stabilization pond. This process adjustment has allowed the WWTP to operate as designed and reduce discharge limit violations. The problem with the effluent from the WTP is lack of alkalinity and ph. Caustic is currently being fed at the head of the WWTP to increase alkalinity and adjust ph. This effort appears to be working, with limitations. The feed rate is based on a once a day laboratory result which allow for improper feed rates between test results. The Utility is investigating equipment to provide continuous monitoring of alkalinity and ph with automatic feed systems that will provide immediate adjustments as necessary. With the implementation of this automated equipment, more decant and possible all of the effluent from the WTP can be introduced to the WWTP at the headworks without directing it to the stabilization pond. This feed process adjustment will eliminate unnecessary sludge buildup in the stabilization pond.

The Utility has made application to the ADEQ for a land application permit to remove sludge from the stabilization pond. The permit is administratively and technical complete. We are waiting on public notice information and approvals from ADEQ. Construction for the sludge removal should take place this summer when the pond level can be lowered.

For the past 12 months Utility crews have been smoke testing the collection system in an effort to reduce SSOs. The focus of the first phase of smoke testing was on or near streets that were previously scheduled for resurfacing. Results and a summary are attached. Photos of point repair locations are included on the attached flash drive. Other areas are currently being smoke tested and similar results are being identified and repaired.

In summary, to complete the chemical feed process adjustments and the WWTP, receive land application permit approval and remove sludge from the stabilization pond and to complete the smoke testing, the City is requesting an extension to December 2018.

We appreciate your consideration of this summary and proposal. If you require additional information, please contact me, Mayor Parnell Vann or Russell Thomas of the Magnolia Waster Water System.

Sincerely,

A. L. FRANKS ENGINEERING, INC.

Anthony L. (Andy) Franks, P.E.
Principal

CC: Mayor Parnell Vann
Russell Thomas, Magnolia Waste Water

We started smoke testing the system on March 7, 2016

smoke testing machine	$2,475.00
liquid smoke	$1,495.00

At the request of the Mayor we first smoke tested the areas that was going to be repaved.
We Smoke tested the following areas:

Summit Street.
Amhurst Street.
Shamrock Street
Melrose Street.
Biscanye Street.
W. University
Travel Center area.
W. Ross
Dogwood , Greene- Sue
Columbia, Linda-Bradley.
Columbia, Jackson To Dudney.
Stadium, Jackson to Washington.
Dewbeery Street.
Grayson, Calhoun to Lelia.
Hollensworth Street.
Academy Street.
Harlem Street.
Harper Street
High School Dr. Bradley to Lee St.
W. North, Washington to Vine.
S. Jefferson, Calhoun to South St.
Pearce St.
Azalea Subdivision.
S. Vine from ross to dead end street.
Sumac St.
Catalpa.
Sprig St.
Teal St.
Mallard St.
Linda St.
S. Height, Ross to Mullins
N. Washington.
Willow St.
S. Chinqupen.
Acorn alley
Ellis Street.
Charolette St.
Broadmore St.

W. North, Vine To Height St.
S. Vine, Main to Calhoun. to School.
Refroe, Jackson to Calhoun , Calhoun to Carver.
Carver.
Jewell.
Renfroe, Carver to dead end.
Marie
Jacks
Emerson.
Curry.
Cordellia.
Adkins.
Blue Bird
N. Dudney.
W. Columbia.
Couch
N.Fredrick
S. Fredrick
W. Garland.

Main line leaks identified by smoke testing and repaired

2515 N. Vine Repaired 6 " main with full circle clamp.
37 Chinquepin, Dug up Manhole forced cement under manhole to stop inflow.
*Repaired Manhole South driveway at attwoods on79.
Dug up Manhole at the end of oak street. to repair Taking in water
*N. Dudney & Lee, smoke coming out of storm drain.
Manhole across from street Department.
214 Samuel. clay main line repaired
Jewel & Mc Authur Main line repaired.
Creek Crossing at end of S. Dudney.
Willow Street Main line in ditch repaired.
318 S. Kelso, main line repaired.
*Creek Crossing at N. Vine at Amfuel.
Blue Bird and Dudney, repaired leaking Manhole.
Hazel Circle Repaired Line outside Manhole, taking water in.
N. Dudney at Lee St. repaired mainline break.
Lee Street replaced twenty nine foot clay line.
Rebuilt Manhole at Smith and Buffington taking water in.
Madison and Union. repaired main line
W. Main and N. height, line separated from manhole,repaired.
Intersection Norma and Grayson, clay line separated from manhole, repaired.
Estimated total cost for main line repairs to date is approx. $47,000.00

Private property, Abandoned service lines identified by smoke testing that have been dug up and plugged.

211 Collegeview.	722 E. McNeil
1022 Calhoun Rd.	304 Sprig.
1210 Calhoun Rd.	803 Smith.
704 W. Ross	211 N. Dudney.
708 Sue, abandon Service in creek	1321 S. Fredrick,
1209 McArthur	1505 Harper.
601 Calhoun Rd.	2015 Field Rd.
1105 S. Fredrick	1322 S. Fredrick
1208 S. Fredrick	1207 S. Fredrick
616 Jack	615 Jack
409 Jack	501 Jack
505 Jack	518 Jack
515 Jack	225 South Cordellia
209 S. Cordellia	1311 Dewberry
1405 Dewberry	1320 Blackberry
410 Blackberry	1405 Blackberry
1206 Patton	1203 Patton
1110 Harlem	1106 Hilltop
1105 Hilltop	1002 Hilltop
1016 Hilltop	419 Emerson
410 Emerson	501 Curry
415 Renfroe	431 Renfroe
1202 Harper	

Majority of what we are finding is clean out cap missing

Manpower:

1 person working in lab .	Tracie Love.
2 maintenance people in plant.	Mike Dodson, Carl Smith
1 person processing sludge.	Jared Fuller.
2 people in the field.	Michael Wilson, David Randolph
1 Superintendent.	Russell Thomas

Televising equipment came in on April 18th, cost of $37,045.96 just purchased cargo trailer for unit $1,050.00

Public Notice

SMOKE TESTING SEWERS

August 3, 2016

The Magnolia Wastewater crew will be smoke testing sanitary sewers in the Junior High School area starting August 8th 2016.

Other areas will include the following streets:

North Street beween Dudney and Verda.
West Union between Dudney and Pine.
East McNeil Between Dudney and Jackson.
North Oakland.
Parkway.
Smith Street Between Dudney and Olive.
Verda.
Wilson.
Lucy Circle.
Nursery St.
Joy St.

This test will assist us in locating breaks and defects in the sewer system. During the test **YOU MAY SEE SMOKE COMING FROM VENT STACKS ON BUILDS OR HOLES IN THE GROUND.** Don't be alarmed. The smoke has no odor, is non-toxic, non-staining, does not create a fire hazard, and will dissipate in a few minutes.

Before we conduct the smoke test, please pour water into your floor drains and unused sinks. This will seal the drain traps so smoke will not enter your building through the drain.

If Smoke should enter your building during the test, it probably means that there are defects in your plumbing that could allow **DANGEROUS SEWER GAS** to enter your building. Note the location of the smoke and call the number at the

bottom of this to arrange a meeting with our inspector. Open doors and windows to ventilate any smoke that enters your building.

Please notify us before we conduct the test if you have any of following situations:

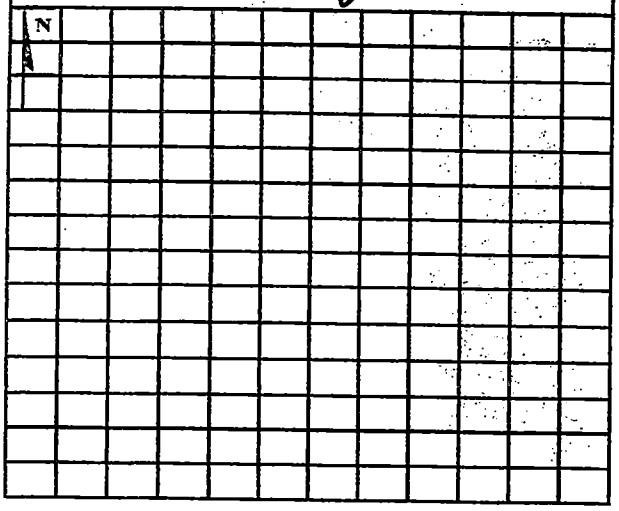
- dogs, birds or other pets that will be confined alone in the building during the test.
- A person who will be alone and is an invalid or sleeping during the test.
- Any individuals with respiratory problems who will be in the building.
- Elderly persons who will be alone and might be alarmed or confused if they see smoke.

If you have any of these situations or have questions regarding the smoke test, call:

City Hall	234-1375
Russell Thomas	904-1694
Wastewater	234-2955

MAIN LINE LEAK REPORT

LOCATION: N. Dudney & Lee St.



Project: _____
Job #: _____
Area: _____
Line No.: _____
Leak No.: _____
Line Size: 8" Avg.Depth: 6'
Date: 3/18/2016 Time: 09:30
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	X
Ditch/Storm Sewer Parallels	
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	Yes

DEGREE OF LEAK	
Heavy	
Moderate	X
Light	

DESCRIPTION OF LEAK
Smoke coming out of ~~Storm~~ Storm Drains in Street.

MEASURED INFLOW	DRAINAGE AREA	MANHOLES	ACCESSIBLE
_____ (GPD)	Street _____ sq.ft.	Up Stream _____	
	Ground _____ sq.ft.	Down Stream _____	

LEAK LOCATION

LOCATION OF LINE	
Under Street	X
Righ-of-Way	
Easement	
Other	

COVER OVER LINE			
Conc. Pavement		Yard/ Field	
Asph. Pavement	X	Woods	
Gravel		Other	
Sidewalk			

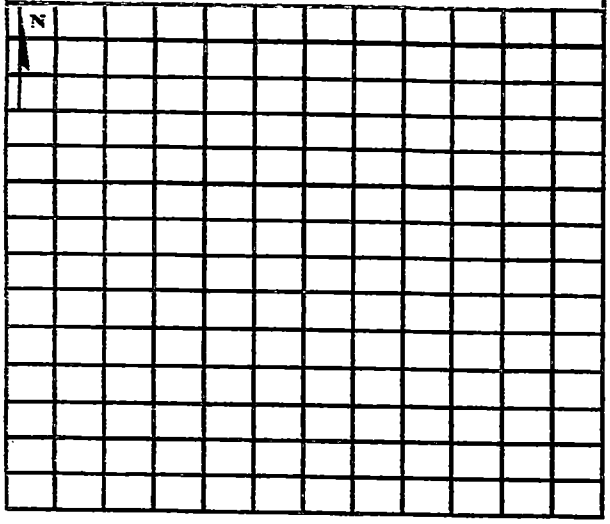
LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION: High school



Project: Mogrehi High school
Job #:
Area: Technology Building
Line No.:
Leak No.:
Line Size: Avg.Depth:
Date: 3/21/2016 Time: 010:25
Chew Chief/
Inspector:

LEAK SOURCE	
Ditch/Storm Sewer Crossing	X
Ditch/Storm Sewer Parallels	
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	X

DEGREE OF LEAK	
Heavy	X
Moderate	
Light	

DESCRIPTION OF LEAK
Storm Drain

MEASURED INFLOW	
	(GPD)

DRAINAGE AREA	
Street	sq.ft.
Ground	sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION

LOCATION OF LINE	
Under Street	
Righ-of-Way	
Easement	
Other	X

COVER OVER LINE			
Conc. Pavement	X	Yard/ Field	X
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

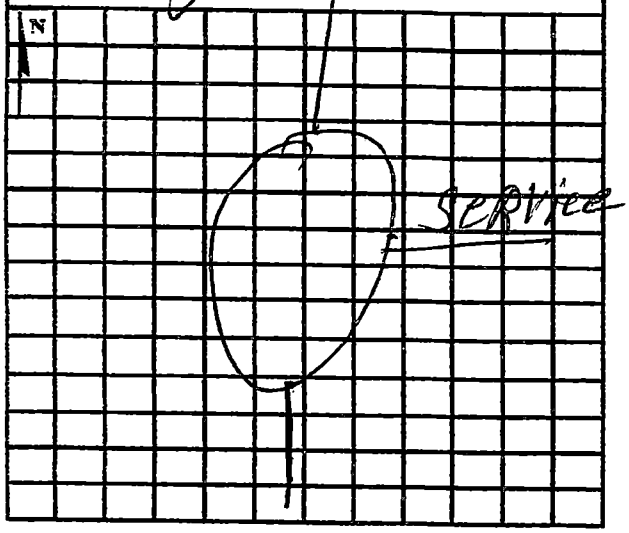
LEAK CHARACERISTICS	
Ponding Area	✓
Size of Hole	12X12"
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION: Jack, st.



Project:
Job #: M.H. 10-45 Jack St.
Area:
Line No.:
Leak No.:
Line Size: 6" Avg.Depth: 6' 9"
Date: 3/28/2016 Time: 010:30
Chew Chief/
Inspector:

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	

DEGREE OF LEAK	
Heavy	
Moderate	X
Light	

DESCRIPTION OF LEAK
Smoke coming from out of Concrete on ring

MEASURED INFLOW	
	(GPD)

DRAINAGE AREA	
Street	sq.ft.
Ground	sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION
Around Cone side

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement		Yard/ Field	X
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

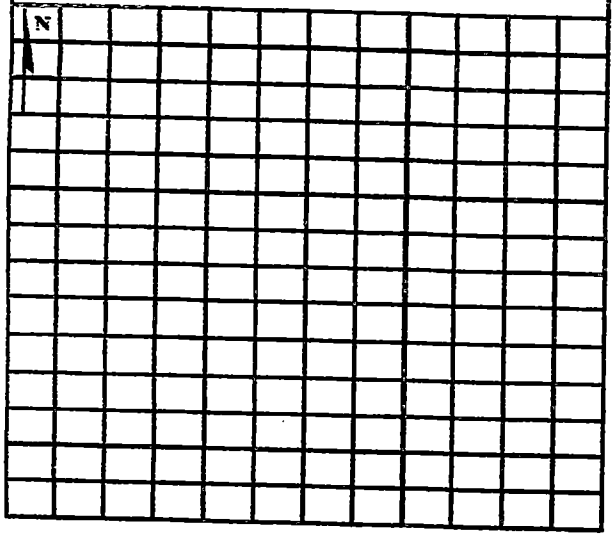
LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION: 1310 S. Fredrick



Project: _____
Job #: _____
Area: _____
Line No.: _____
Leak No.: _____
Line Size: _____ Avg.Depth: _____
Date: 3/09/2016 Time: 10:13
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	X
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	

DEGREE OF LEAK	
Heavy	
Moderate	X
Light	

DESCRIPTION OF LEAK

MEASURED INFLOW
_____ (GPD)

DRAINAGE AREA	
Street	_____ sq.ft.
Ground	_____ sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION
On ditch on East side of road at phone box

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement		Yard/ Field	
Asph. Pavement	X	Woods	
Gravel		Other	
Sidewalk			

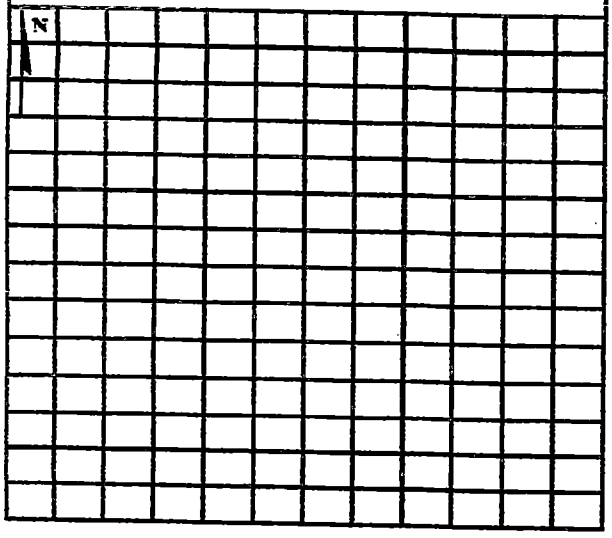
LEAK CHARACERISTICS	
Ponding Area	X
Size of Hole	
Potential Head	

REHABILITATION METHOD
Dig up and patch

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION: 129 S. Cordelia



Project: _____
Job #: _____
Area: S. Cordelia 129
Line No.: _____
Leak No.: _____
Line Size: 6" Avg.Depth: 6'
Date: 3/29/2016 Time: 8:54
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	X
Ponding Area	X
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND
Quantification Testing: _____
Internal Televising: _____

DEGREE OF LEAK	
Heavy	
Moderate	X
Light	

DESCRIPTION OF LEAK

MEASURED INFLOW
_____ (GPD)

DRAINAGE AREA	
Street	_____ sq.ft.
Ground	_____ sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION
On ditch on west side of road

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement	X	Yard/ Field	
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

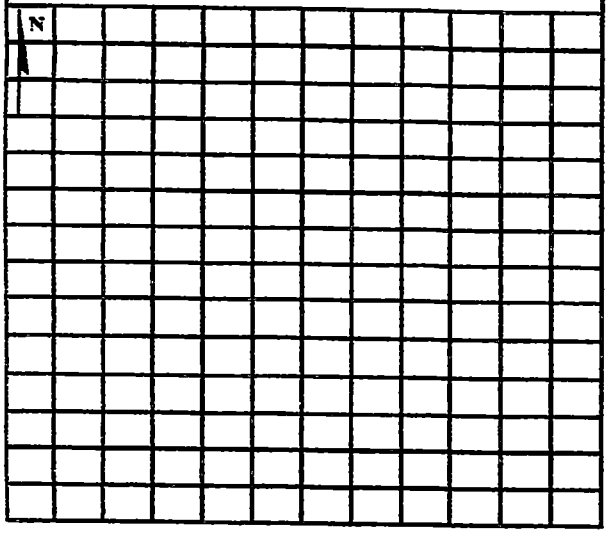
LEAK CHARACERISTICS
Ponding Area Ditch
Size of Hole _____
Potential Head _____

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION:



Project: _____
Job #: _____
Area: Dewell
Line No.: 7
Leak No.: _____
Line Size: 8" Avg.Depth: 2 ft
Date: 9/20/2016 Time: 700
Chew Chief/
Inspector: _____

RECOMMEND	
Quantification Testing:	
Internal Televising:	

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	X
Ponding Area	X
Potholes/ Faults	
Break Along Line	X
Private Line Tie-In	
Other	

DEGREE OF LEAK	
Heavy	✓
Moderate	
Light	

DESCRIPTION OF LEAK

Hole in top of pipe from being hit with backhoe

MEASURED INFLOW	
_____	(GPD)

DRAINAGE AREA	
Street _____	sq.ft.
Ground _____	sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION

~~Footpath~~

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement	X	Yard/ Field	X
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	3in
Potential Head	

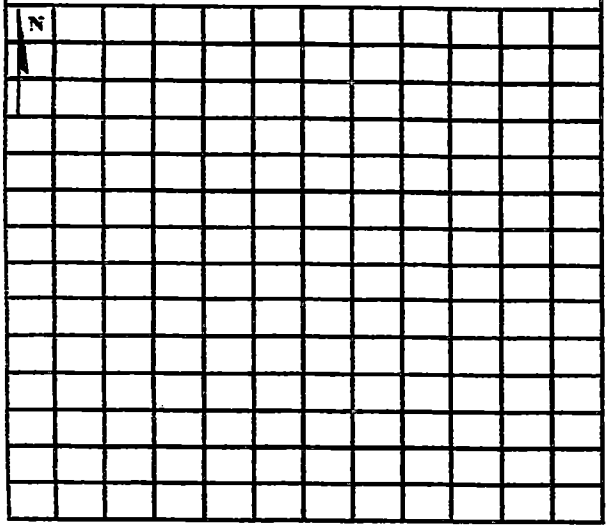
REHABILITATION METHOD

Fixed on 5/23/2016 with flashing and Concrete

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION:



Project: _____
Job #: _____
Area: Dunn & Grayson
Line No.: _____
Leak No.: _____
Line Size: 8" Avg.Depth: _____
Date: 5-26-2016 Time: _____
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	✓
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	

DEGREE OF LEAK	
Heavy	
Moderate	✓
Light	

DESCRIPTION OF LEAK

MEASURED INFLOW
_____ (GPD)

DRAINAGE AREA	
Street	_____ sq.ft.
Ground	_____ sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION

LOCATION OF LINE	
Under Street	✓
Righ-of-Way	
Easement	
Other	

COVER OVER LINE			
Conc. Pavement		Yard/ Field	
Asph. Pavement	✓	Woods	
Gravel		Other	
Sidewalk			

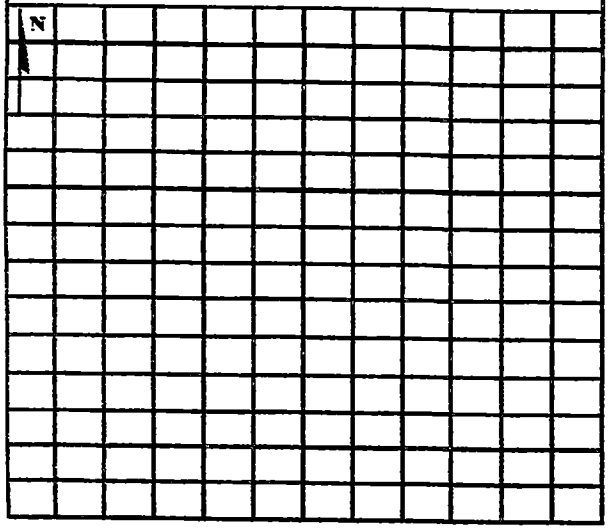
LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION:



Project: _____
Job #: _____
Area: Willow
Line No.: _____
Leak No.: _____
Line Size: 8 Avg.Depth: _____
Date: 6/2/2016 Time: 3:00
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	X
Ponding Area	
Potholes/ Faults	
Break Along Line	X
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	

DEGREE OF LEAK	
Heavy	X
Moderate	
Light	

DESCRIPTION OF LEAK

Fixed on 6/7/2016

MEASURED INFLOW	
_____ (GPD)	

DRAINAGE AREA	
Street _____	sq.ft.
Ground _____	sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream X	

LEAK LOCATION

On Ditch on left side of Road at dead end of line.

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement	X	Yard/ Field	
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

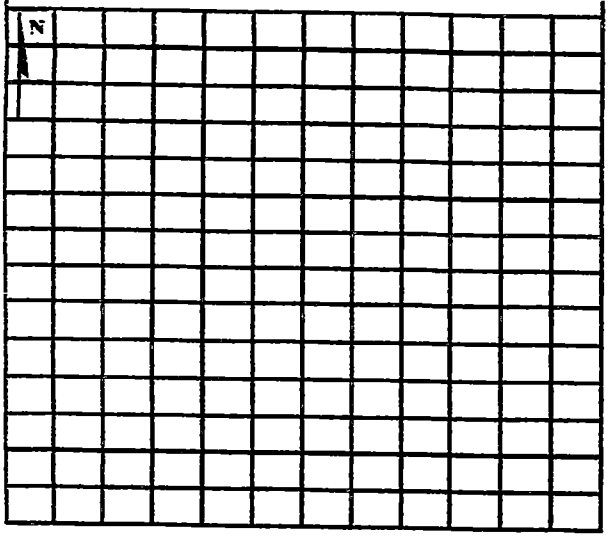
LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION:



Project: _____
Job #: _____
Area: W L S Sub
Line No.: _____
Leak No.: _____
Line Size: 8" Avg.Depth: 7'
Date: 6/9/2016 Time: 10:30
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	
Ponding Area	
Potholes/ Faults	
Break Along Line	X
Private Line Tie-In	
Other	

RECOMMEND	
Quantification Testing:	
Internal Televising:	

DEGREE OF LEAK	
Heavy	
Moderate	X
Light	

DESCRIPTION OF LEAK

MEASURED INFLOW
_____ (GPD)

DRAINAGE AREA	
Street	_____ sq.ft.
Ground	_____ sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION

LOCATION OF LINE	
Under Street	
Righ-of-Way	X
Easement	
Other	

COVER OVER LINE			
Conc. Pavement	X	Yard/ Field	
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

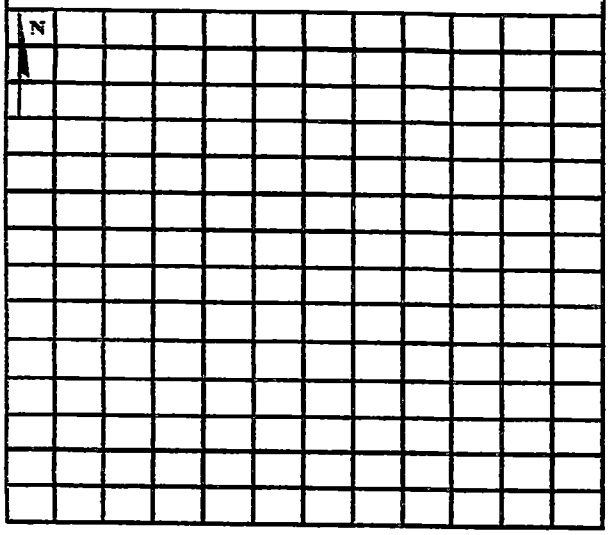
LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

MAIN LINE LEAK REPORT

LOCATION:



Project: _____
Job #: _____
Area: 1323 Mallard
Line No.: _____
Leak No.: _____
Line Size: _____ Avg.Depth: _____
Date: _____ Time: _____
Chew Chief/
Inspector: _____

LEAK SOURCE	
Ditch/Storm Sewer Crossing	
Ditch/Storm Sewer Parallels	✓
Ponding Area	
Potholes/ Faults	
Break Along Line	
Private Line Tie-In	
Other	

RECOMMEND
Quantification Testing: _____
Internal Televising: _____

DEGREE OF LEAK	
Heavy	
Moderate	✓
Light	

DESCRIPTION OF LEAK
Coming out of main line

MEASURED INFLOW
_____ (GPD)

DRAINAGE AREA	
Street	_____ sq.ft.
Ground	_____ sq.ft.

MANHOLES	ACCESSIBLE
Up Stream	
Down Stream	

LEAK LOCATION

LOCATION OF LINE	
Under Street	
Righ-of-Way	
Easement	✓
Other	

COVER OVER LINE			
Conc. Pavement		Yard/ Field	✓
Asph. Pavement		Woods	
Gravel		Other	
Sidewalk			

LEAK CHARACERISTICS	
Ponding Area	
Size of Hole	
Potential Head	

REHABILITATION METHOD

ADDITIONAL COMMENTS

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	317 S. Vine	old	service										
2	309 S-Vine	old	service										
3	329 S. Vine	under	Toilet										
4	814 W. Monroe	old	service										
5	815 W. Monroe	from	under House										
6	909 W. Monroe	old	Vent Pipe										
7	427 S. Height	Broke	Vent Pipe										
8	402 S. Height	From	under House										
9	513 S. Height	No	Vent Cap and old service								X	3	
10	open lot S. ~~Hwy~~ Height	of	Right side										

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	Remodel House	Coming out of house											
2	open lot W. Ross	old Services											
3	702 W. Calhoun	old Services											
4	724 W. Main	clean out cap											
5	737 W. Main	open sewer											
6	749 W. Calhoun	Coming out of water meter box											
7	203 S. Kelso	sewer line in ditch by clean out											
8	open lot on S Kelso	West side in ditch old sewers											
9	open lot on S. Kelso	East side old service											
10	911 W. Calhoun	sewer line											

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	608 W. Calhoun	old	Services										
2	517 W. Calhoun	old	service										
3	318 W. Calhoun	old	service										
4	300 W Calhoun	old	service										
5	217 S-Vine	storm	Drain	and under	house								
6	309 W. Monroe	old	service										
7	South of S-Vine + W. Monroe	Storm	Drain										
8	405 W Calhoun	Clean	out cap	+ under	house								
9	402 W. Calhoun	old	service										
10	318 W. Calhoun	old	clean-out										

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	310 W. Calhoun	old sewer											
2	AP+ 7F Willow	Coming out of wall											
3	Eastside of willow	+5 Jefferson old service											
4	305 Willow	old Service X 2											
5	320 Willow	old service											
6	611 S. Jefferson	Clean out cap											
7	415 Elm	Main line Fence Post											
8	1812 N. Jackson	Clean out											
9	1910 N. Jackson	Clean out Service line											
10	2030 N. Jackson	service line Little mall + Bathroom											

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	932 Mongingo	service line											
2	1914 Mongingo	clean out											
3	620 Sue	service line											
4	1323 Mallard	main line											
5	1301 Mallard	clean out											
6	1310 Mallard	under house											
7	1315 Teal	clean out											
8	In Ditch westside	W. Columbia											
9	920 N. Madison	old service											
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	210 3 N. Washington	open	service		X	2							
2	210 3 N. Washington	open	clean out	Caps	X	2							
3	1920 N. Washington	Broke	Clean out	Cap									
4	102 Stadium D	Both	3	service	Line								
5	1316 N. Washington	service	line										
6	1313 N. Washington	from	under	house									
7	1326 N. Washington	clean	out	Cap									
8	122 Stadium	clean	out	Cap									
9	701 W. North	Sewer	line	8"	overgrown								
10	703 W. North	out	of	ditch	Could	be	Old	sewer					

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
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STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	731 W. North	open	Clean out										
2	742 W. North	open	sewer line										
3	610 W North	open	sewage		X	5	old						
4	532 W North	open	Clean out										
5	Behind old Wal-Mart	open	Clean out										
6	KZHC		Floor Drain		X	3							
7	Bow Wow N. Vine	South side	next to	Wall									
8	308 W. North	open	clean out	under	House								
9	1006 E Columbia	Clean out	Cap										
10	917 Buffington	Clean out	Cap										

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
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4 CONNOT TEST

STATUS CODES
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SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
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5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. ______	Date ______
Contractor ______	Length ______
Technician ______	Predominate Surface Cover ______

Manhole Number UPSTREAM	SAND BAGGED	BLOWER	Manhole Number DOWNSTREAM	SAND BAGGED	BLOWER
	Y / N	Y / N		Y / N	Y / N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y / N	DVD NO.
1	Columbia St & Buffington		Storm		Drain								
2	507 E Columbia	Broke	Clean	out									
3	E. Columbia St Charles apt		open		Clean out								
4	308 Stadium	open	Clean out										
5	211 Cordelia	open	Clean out										
6	407 Cordelia	open	Clean out										
7	1119 Linda	open	Clean out										
8	1143 Linda	Clean	out	cap on but not fitting right									
9	601 W Ross	open	service X 4										
10	620 W Ross	open	service										

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	800 Caldwell	open	Service										
2	1317 W. Williamson	Clean out Cap											
3	1300 E Main	Clean out Cap											
4	1219 N. Dudley	open Service Line											
5	807 N. Dudley	Smoke in house											
6	614 N. Dudley	Clean out Caps											
7													
8													
9													
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

AMHURST

Smoke Inspection Test

AMHURST 3-7-2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

	OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Set up	1	2407 - MH. 11-133												
#1	2	2350 N - CLEANOUT CAP												
#2	3	2507 - CLEANOUT CAP												
Set up	4	2601 MH. 11-132												
#3	5	2608 - CLEANOUT CAP												
#4	6	MH. 11-130 N. 6" CLEANOUT												
Setup	7	MH. 11-130												
#5	8	1206 MELROSE - DRIVEWAY	MORTORED			3/8/2016				DONE				
	9													
	10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

SHAM ROCK 3-7-2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Setup 1	MH. 11-136. N. Good												
Setup	MH. 11-139 BISCYANE												
3	1119 BISCYANE-SMOKE N HOUSE												
#6 4	1199 BISCYANE KITCHEN SINK												
Setup 5	1103 BISCYANE												
#7 6	1103 BISCYANE CLEANOUT CAP												
Setup 7	MAGNOLIA APARTMENTS - RE MORTOR LID												
#8 8	MAG APT. 26												
9	MIDDLE MH LID BROKE REPLACE = DONE 3/8/2016												
10				=									

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

North Vine 3-7-2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Setup													
1	DRIVEWAY to CAR WASH												
1277	MH at Light Pole Re MORTOR & BUTTE												
Setup	MH@2604 N. VINE												
Setup	MH@2408 N. VINE												
#9	2410 N. VINE CLEANout CAP												
#10	2409 N. VINE CLEANout CAP												
#11	2515 N. Vine Main Line			Repaired				Done					
#12	2515 N. Vine Main Line			Repaired				Done					
Setup	2463 N. VINE												
#13	2463 N. VINE CLEAN out			CAP									
#14													

SKETCH

MAYO CAR CLINIC - DRAIN IN BACK

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

W. University 3/8/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Setup	1 MH. At TRAILER PARK												
#15	2 OPEN Lot												
#16	3 OPEN Lot												
#17	4 OPEN Lot												
#18	5 FIRST OPEN Lot	DANNY		Jones									
#19	6 FIRST OPEN Lot	DANNY		Jones									
#20	7 PANTHER DEN												
#21	8 PANTHER DEN												
#22	9 PANTHER DEN			=									
#23	10 PANTHER DEN			=									

SKETCH

#24 PANTHER DEN

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Portee DR. LAWTON Cir A

3/14/2016

3-16/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	MH9-62												
2	MH9-60												
3	MA 9-59												
4	812 Portee DR. Cleanout												
5	MH 9-63												
6	MH 9-87 LAWTON	Cir A											
7	Kittle JEANS Service												
8	1016 Lawton Cir	Service X 2											
9	1003 Lawton Cir.	Main Ditch											
10													

setup
setup
setup
setup
setup

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

N. Linda 3/16/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Set-up 1	MH. 9-73												
2	1321 N. LINDA	CLEAN outs											
3	1312 N. LINDA	Main Line FRONT					YARD						
4	1303 N LINDA	CLEAN outs											
HERNANDEZ 5	1304 N. LINDA	SMOKE IN Both BATH ROOMS					Toilets						
6													
7													
8													
9													
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test.

N. Dudney & Ridgewood 3/16/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	Ridgewood MH #1												
2	#1 2 Ridgewood smoke in house coming from behind Washer												
3	MH 9-69A 1600 N. Dudney CLEANOUTS												
4	N. Dudney & Lee Storm Drain												
5	#6 Mimosa Cleanouts												
6													
7													
8													
9													
10													

Setup

Setup

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Bradley St - 3/21/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	Set-up M.H. 9-81												
2	1423 Chestnut Clean out Cap												
3	1412 Chestnut smoke in street on service line out												
4	Setup MH. 9-81A												
5	Setup MH. 9-80 — Storm Drain at textbridge building Main line												
6	Setup High school old band hall Clean out.												
7	MH 9-79												
8													
9													
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

N Dudley & Greene — 3/21/2016, 3/22/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
setup 1	MH 9-102												
setup 2	MH 9-119												
3	1815 N Dudley	Clean out - Back yard											
4	1803 N Dudley	Clean out Back yard											
5	1811 N. Dudley	P. Trap in Back with bath Sup South-end											
setup 6	MH. 9-121												
setup 7	MH. 9-123												
8	Old House N. Dudley	smoke coming out under house											
9													
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

AZ Alert 3/22/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	MH-A-1												
2	MH-A-H												
3	MH-A-6												
4	#77 Azalea Clean out Cap												
5	#13 Holley Smoke in house at Bathroom								Mr. Phillips				
6	#5 Holley Sewer Valley no P-Trap under sink in back bath												
7	3208 Live oak Clean out Cap						South side						
8	#5 Azalea Smoke in garage												
9													
10													

SETUP
SETUP
SETUP

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

5/03/2016

Smoke Inspection Test

Year
N Lakewood

S. Lakewood

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	9-130												
2	9-115												
3	1610 N Lakewood	Clean out			Caps								
4	9-117												
5	9-110												
6	1608 S Lakewood	Clean outs			caps								
7	1619 S Lakewood	Clean out			Caps								
8													
9													
10													

Setup
setup
setup
setup

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Shade LANE
Blue Bird

Smoke Inspection Test
Pineview

3/23/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Setup 1	MH. 9-105												
Setup 2	MH 9-106												
3	1730 Pineview	Delete											
4	1809 Pineview	Cleanouts in A Meter Box											
5	1816 N. Rudwey	Cleanouts in BACK on Pineview											
Setup 6	9-126												
Setup 7	9-127												
Setup 8	12-53												
9	1401 Bluebird Hill DR	Clean out Caps											
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

BlueBird Hill DR

3/24/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	MH 12-50												
2	MH. 12-51												
3	1303 Bluebird Hill DR.				smoke in house around toilet								
4													
5													
6													
7													
8													
9													
10													

Setup

Setup

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

3/28/2016

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. ______________________ Date ______________________

Contractor ______________________ Length ______________________

Technician ______________________ Predominate Surface Cover ______________________

Manhole Number UPSTREAM	SAND BAGGED	BLOWER	Manhole Number DOWNSTREAM	SAND BAGGED	BLOWER
	Y / N	Y / N		Y / N	Y / N

Set up

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
[redacted]													
2	MH. 10-4:00												
3	616 Jack St Old service line opened Plugged												
4	706 S. Fredrick smoke under toilet and Clean out pipe												
5	615 Jack 3 places old service lines Plugged												
6	614 S. Fredrick Clean outs old service Plugged												
7	1507 Dewberry 3 old Vent stacks with some Cover												
8	Vacant lot on S. Cordelia Clean out Plugged												
9	225 S Cordelia 3 old cleanouts or Vent Pipes Plugged												
10	209 S Cordelia Clean out and service line open ~~Plugged~~ Plugged												

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

1 Clean out next to house - live

Dewberry 3/25/2016 Jack 3/28/2016

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	MH. 7-13 Dewberry												
2	1311 Dewberry open sewer pipe at old Trailer P lugged												
3	1311 Dewberry ~~Open~~ Clean out cap between houses P lugged												
4	1405 Dewberry Clean out cap P lugged												
5	10-46-Blackberry												
6	1323 Blackberry - Smoke Coming all out of house												
7	MH: 10-45 Smoke Coming from around manhole												
8	409 Jack Smoke Coming out of ground possible sewer Plugged												
9	501 Jack Clean out Cap Landlord Fixed												
10	505 Jack apartment Clean out Broke off Landlord Fixed												

5 steps

Set up P

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Jack 3/28/2016 — ann st 3/28/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO
1	open lot north of 518 Jack	open					Service line Plugged						
2	open lot ~~south of 518~~ Jack apartments	open					Service line Plugg						
3	604 Jack squirl line	broke	Linda house				Home owner said he fix it						
4	1320 Blackberry	Vacant lot					Service line open Plugged						
5	MH-10-43A BLACKberry												
6	1511 Blackberry	smoke coming up from toilet											
7	1410 Blackberry	Clean out Cap					Plugged						
8	1410 Blackberry	Clean out Cap					Plugged						
9	1411 ann	Clean out = Cap											
10	1401 Blackberry	Clean out = Cap					Plugged						

Set up

SKETCH

1405 Blackberry - old service Plugged

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

3/29/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	1205 Patten - old service Christmas tree Plugged												
2	1206 Patten - old service and a Clean out Plugged												
Set up 3	MH. 10-23												
4	1322 S. Fredrick - open left, Big hole Plugged												
5	1310 S Fredrick - in Ditch after main												
Set up 6	MH. 10-21 S. Fredrick												
7	1075 Fredrick - Smoke coming from under house (Back)												
8													
9													
10													

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

3/29/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
Setup 1	MH. 7-17 S. Cordelia												
2	125 S. Cordelia smoke coming out of edg of Roof on W. end at top												
3	129 S. Cordelia smoke coming out of ditch on main												
Setup 4	M.H. 10-37 S. Fredrick												
5	MH 10-35 S. Fredrick Re Mortar at Creek												
6	M.H. 10-31 Right of Way S. Fredrick new Ring when dry												
7	M.H. 10-35 S. Fredrick												
8	1209 S. Fredrick - old sewere line Plugged												
9	1207A S. Fredrick - old sewere line Plugged												
10	1203 Patton - old sewere line in front Plugged												

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

3/30/2016

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
	Setup												
1	~~HARLEM~~												
2	906 Harlem	Clean out	Broke										
3	1110 Harlem	out	Service	Liner						Plugged			
4	1015 Harlem	Clean out	Cap	broke									
5	MH 10-83 McGregor												
6	1204 McGregor	Clean out in	back										
7	1304 Harlem	Coming out from under	house										
8	1106 Hilltop	Clean out	Cap							Plugged			
9	1105 Hilltop	old	service	Vacant	Lot					Plugged			
10	1002 Halpin	old	service	line						Plugged			

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

3/30/2016 — 3/31/2016

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	1016 Hilltop	old service			P		lugged						
Setup 2	MH-10-100	Raising manhole											
3	419 EMERSON	Maybe old service			Fence		Post	Plugged					
4	409 EMERSON	Clean out CAP and from ground											
5	410 EMERSON	Old service			P		lugged						
6	501 Curry	old service lines			P		lugged						
7	1107 Curry	From under house											
8	1111 Curry	Clean out on service											
Setup 9	MH-10-98												
10	415 Renfroe	old service lines						Plugged					

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	431 Renfrew	4	old service		P		Plugged						
2	1515 McCay		service line		P		Plugged						
3	MH-10-169												
4	612 Renfrew		Clean out				Cap						
5	619 Renfrew		Service		Line								
6	611 Renfrew		Sewer		Line								
7	MH. 10-69												
8	1212 Carver		Clean out		Cap								
9	1212 Carver open		lot		service		line						
10	1213 Carver		Clean		out								

4/11/2016
5/19/2016

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left _	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	1304 Carver	Service line											
2	808 Calhoun Rd	Clean out Cap											
3	1221 Carver	Coming out window Hose											
4	1205 Carver	Septic line											
5	1205 Carver	Storm drain											
6	1201 Harper	R. Service line R clean out											
7	1023 Renfrew	open lot											
8	1213 Yorkshire	Dead end	Service line										
9	1210 Harper	Service line											
10	1205 Renfrew	Clean out											

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	1207 Renfroe	Service line											
2	1206 Renfroe	from under House											
3	1217 Renfroe	Clean out open lot											
4	10-57												
5	1005 Dewell	Coming from under house and at edge											
6	1114 Stevens	Busted service line											
7	open lot at Stevens & Larson												
8	1008 Dewell	from under House											
9	1117 Marshall	service line											
10	1119 Marshall	open service line											

5' Setups

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	922 Dewell	Coming from under Toilet											
2	922 Dewell	sewer line											
3	913 Dewell	Service line											
4	915 Dewell	Main line				Fixed							
5	1119 Marshall	in house coming from out of toilet											
6	1121 Marshall	in house coming from under toilet											
7	907 Dewell	open lot. Sewer line											
8	901 McArthur	open service line											
9	2-22												
10	10-1228												

5/23/2016

5/26/2016

SKETCH

RESULT CODES
1 POSITIVE
2 SUSPECT
3 NEGATIVE
4 CONNOT TEST

STATUS CODES
1 PRIVATE
2 PUBLIC

SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
3 DRIVEWAY DRAIN
4 WINDOW WELL DRAIN
5 STAIRWELL DRAIN
6 AREA DRAIN
7 DOWNSPOUT
8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	406 Norma & Coming out of Water Meter Box												
2	Norma & Grayson out of Street Inside manhole												
3	402 Norma open Lot Behind service line												
4	320 Felix Clean out Cap												
5	8-26												
6	S.W. Corner of Madison & Garland unknown smoke												
7	607 N. Madison Service line												
8	601 N. Madison smoke unknown												
9	804 N. Jefferson Service line												
10	720 N. Jefferson service line X 2												

SKETCH

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STATUS CODES
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SOURCE TYPE CODES
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6 AREA DRAIN
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8 DOWNSPOUT DRAIN
9 FOUNDATION DRAIN
10 BUILDING INSIDE
11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from maintine Left	Distance from maintine Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
5/26/2016 1	10-77												
5/31/2016 2	1-55												
3	602 Couch	Clean out cap & old service											
4	604 Couch	old service											
5	608 Couch	old service X2											
5/31/2016 6	1-40												
7	638 Couch	old services X2											
8	599 Homer	old service											
9	601 Homer	old services											
5/31/2016 10	1-34			=									

SKETCH

RESULT CODES
1 POSITIVE
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STATUS CODES
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SOURCE TYPE CODES
1 SERVICE LATERALS
2 TRANSITIONAL JOINT
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11 CATCH BASIN
12 STORM DITCH
13 STORM MANHOLE
14 MAIN SEWER
15 UPSTREAM MANHOLE
16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

Revised: Mar-08

Smoke Inspection Test

Contractor's Smoke Testing Form

Project No. _____ Date _____

Contractor _____ Length _____

Technician _____ Predominate Surface Cover _____

Manhole Number UPSTREAM	SAND BAGGED Y/N	BLOWER Y/N	Manhole Number DOWNSTREAM	SAND BAGGED Y/N	BLOWER Y/N

5/31/2016

OBS No.	Source Address/Location (All Positive and Suspect)	Distance from UPS MH	Distance from mainline Left	Distance from mainline Right	Result	Status	Source Type	Smoke	Area Ft	Area Ft	Run Off	TV Y/N	DVD NO.
1	1-4												
2	903 S. Vine	old service											
3	393 E Norail	Toilet leaking											
4	805 S. Height	old service X 2											
5	8213 Height Dirt Drive	old services X 2											
6	819 S. Height	old service											
7	807 Mullen	old service											
8	Willow St	Main line Repaired 6/7/2016											
9	409 S. Vine	old service X 2											
10	411 S. Vine	old service X 2											

SKETCH

RESULT CODES
1 POSITIVE
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SOURCE TYPE CODES
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2 TRANSITIONAL JOINT
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16 CLEANOUT
17 OTHER

SMOKE CODE
1 LIGHT
2 MEDIUM
3 HEAVY

RUNOFF CODES
1 0% PAVED
2 25% PAVED
3 50% PAVED
4 75% PAVED
5 100% PAVED

Other Leaks or Comments:

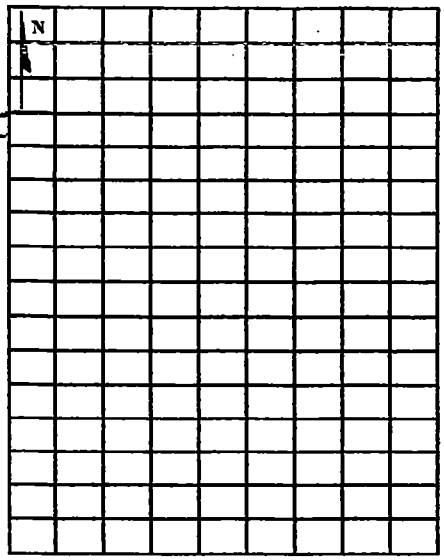
Revised: Mar-08

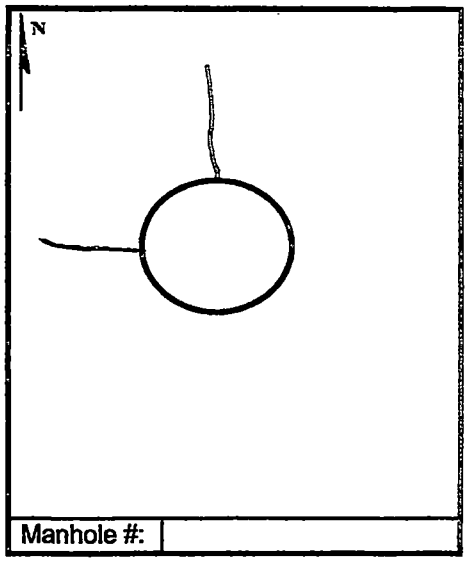
MANHOLE SURVEY

CITY OF:
Wilmington

Manhole No: Ridge Wood 1
Area:
Crew:
Date: 3/18/2016
Time: 09:07

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

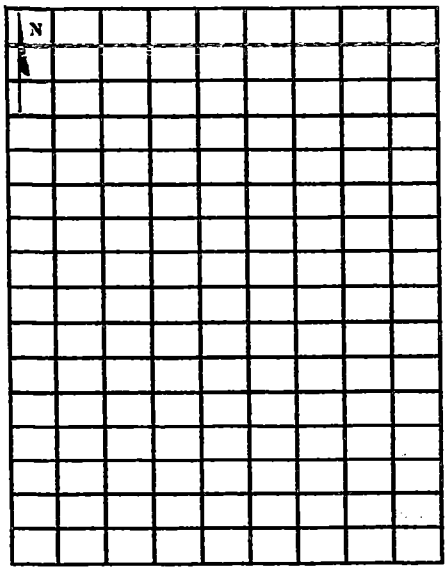
SOIL CONDITIONS	
	Dry
X	Moist
	Wet
	Saturated

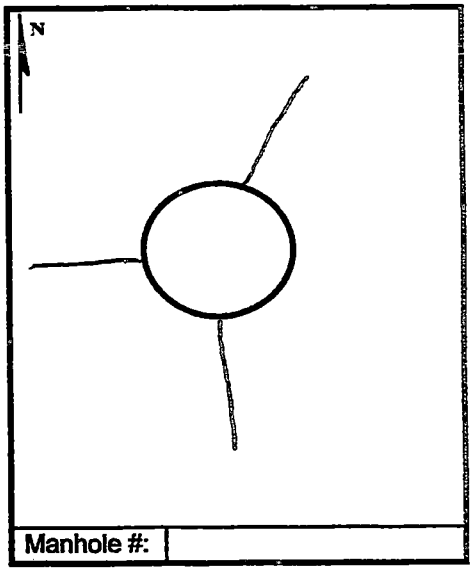
Estimated Cost = $

MANHOLE SURVEY

CITY OF: Magnolia

Manhole No: 9-81
Area: Lee St
Crew:
Date: 3/21/2016
Time: 09:00





Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [x] Block
- [ ] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [x] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

MH DEFECTS

- [x] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	11"					
Depth of Surchage						
Depth of Flow						

(VC) Vertified Clay C - Concrete (PVC) Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

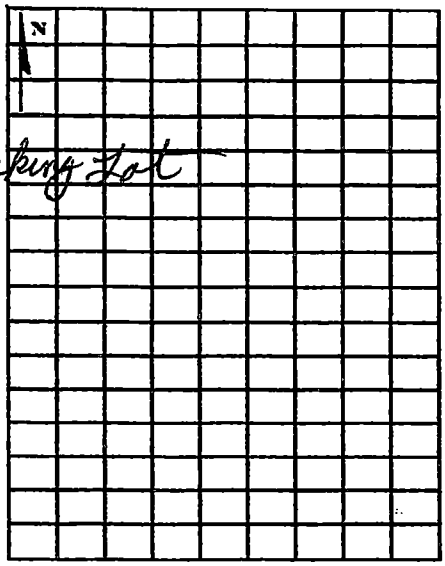
SUGGESTED REHAB:

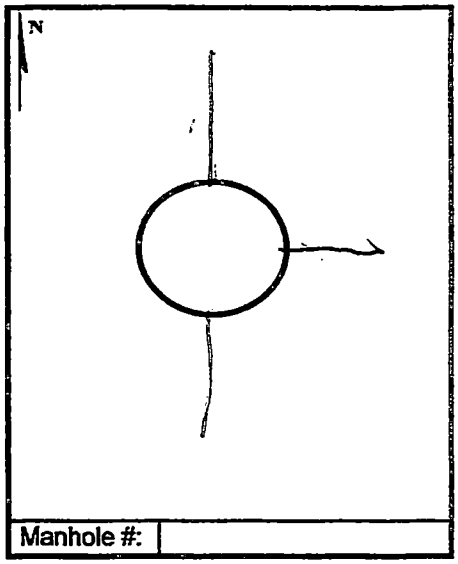
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-817
Area: Bibbley Parking Lot
Crew:
Date: 3/2/2016
Time: 09:12





Manhole #:

MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
X	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
X	Good
	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	11'-0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

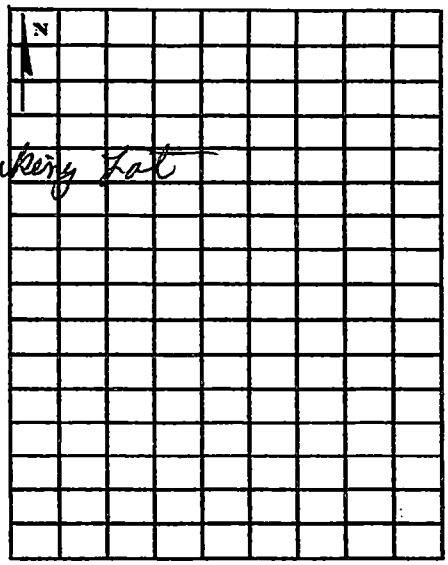
SUGGESTED REHAB:

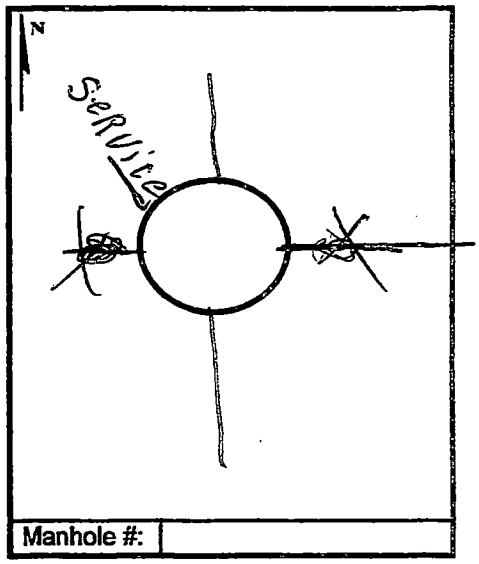
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-82
Area: Buddy Parkway Est
Crew:
Date: 3/21/2016
Time: 09:41





Manhole #:

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
X	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	9'4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

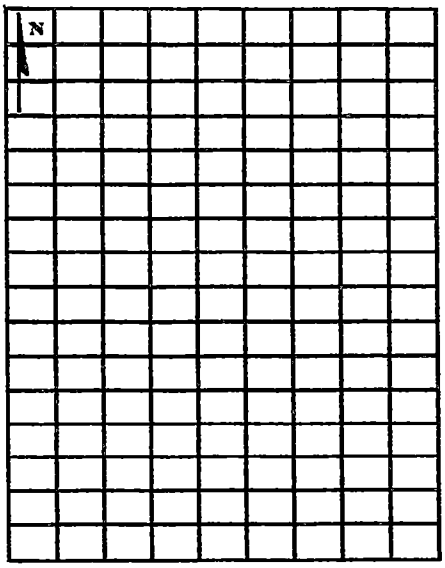
Estimated Cost = $

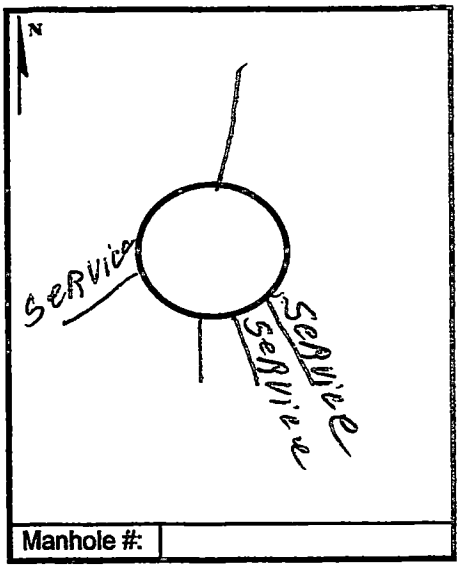
MANHOLE SURVEY

CITY OF:

Manhole No:	9-79
Area:	
Crew:	
Date:	3/21/2016
Time:	10:36

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	3'					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
X	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

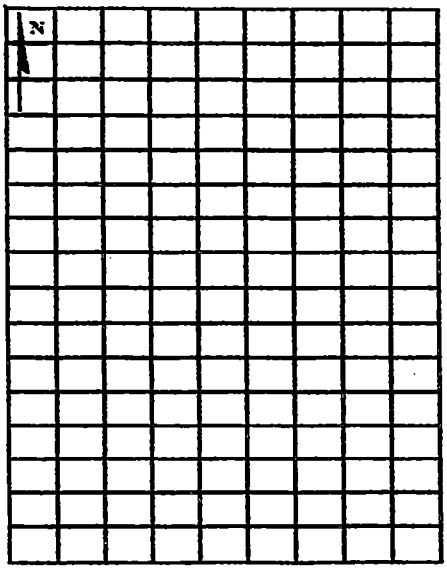
Estimated Cost = $

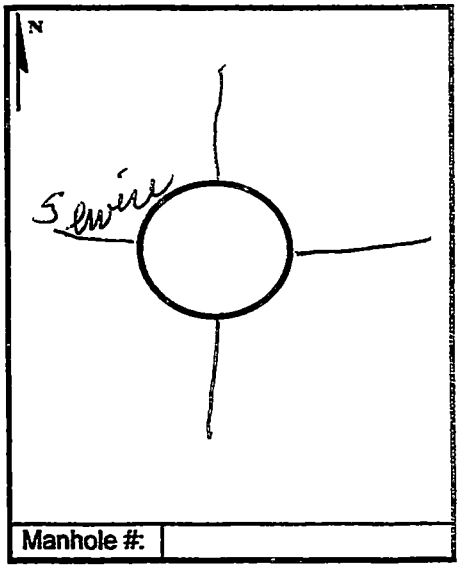
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-10 J
Area:
Crew:
Date: 3/21/2016
Time: 2:43

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
	Fair
X	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	4'6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

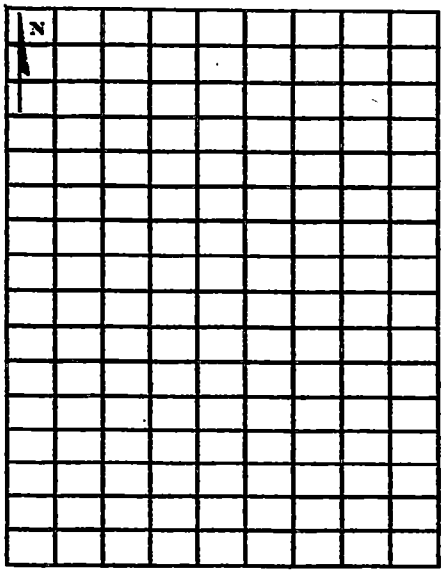
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

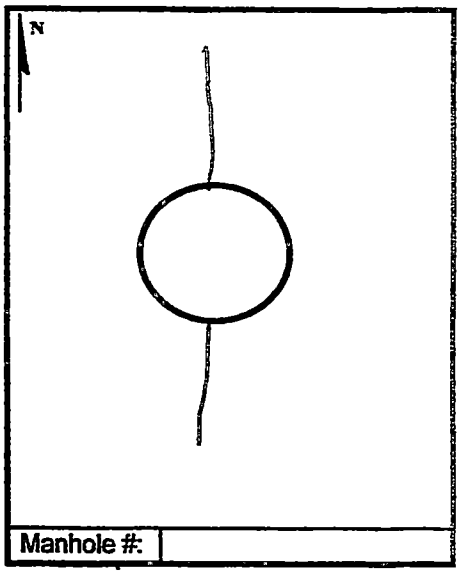
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-119
Area:
Crew:
Date: 3/21/2016
Time: 3:02





Manhole #:

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	139					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

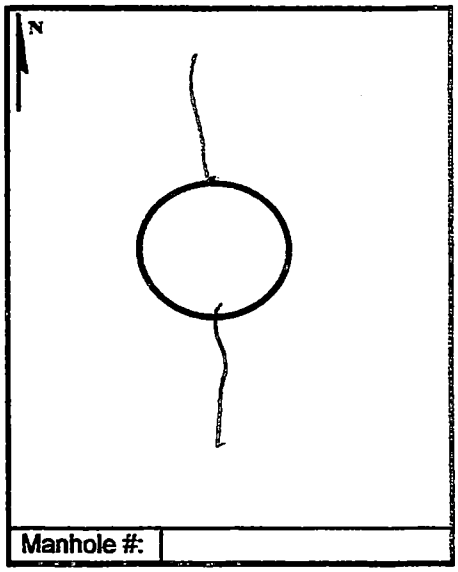
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-121
Area:
Crew:
Date: 3/22/2016
Time: 08:32

N



Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [x] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION

- [ ] Good
- [ ] Fair
- [x] Poor
- [ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	7'3"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [x] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [x] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

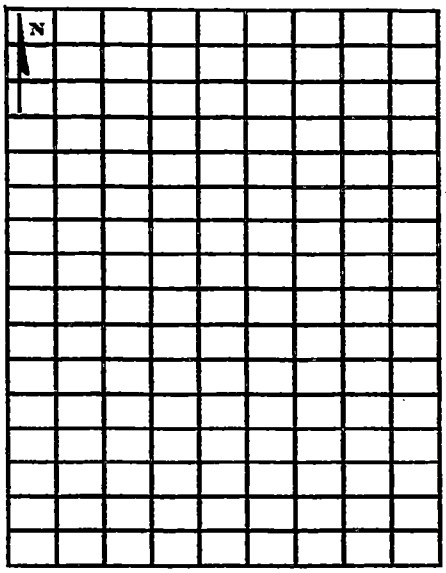
Estimated Cost = $

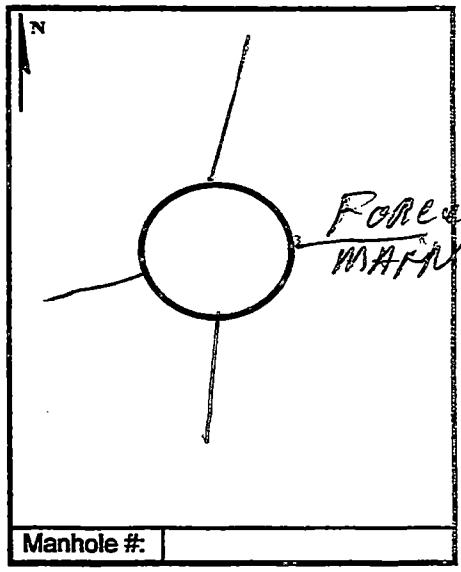
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 9-123
Area:
Crew:
Date: 3/22/2016
Time: 09:19

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
	Fair
X	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	6.0					
Depth of Surchage						
Depth of Flow						

VC - Verified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
X	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
X	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
X	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Replace

Estimated Cost = $

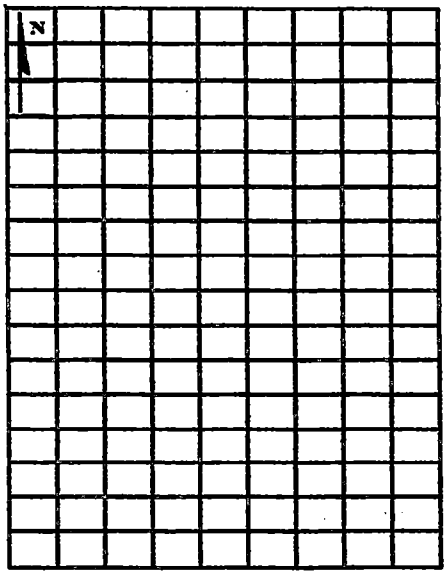
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

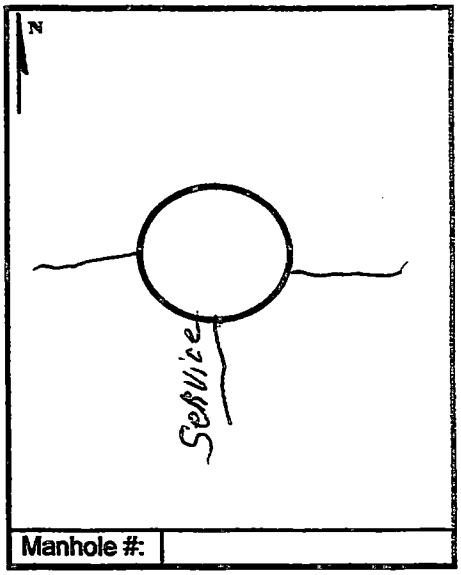
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	A-1
Area:	
Crew:	
Date:	3/22/2016
Time:	09:48

MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
X	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert		6'8"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

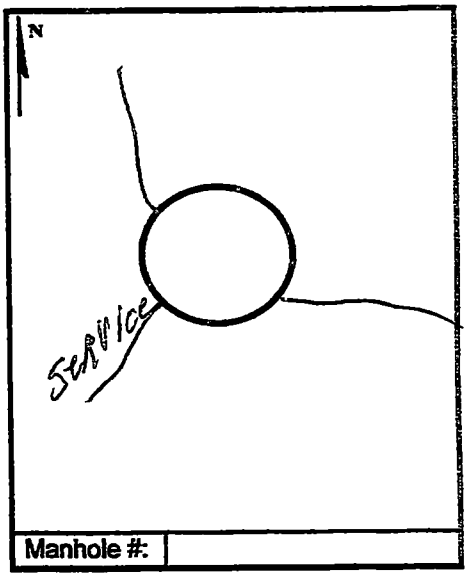
Estimated Cost = $

MANHOLE SURVEY

CITY OF: Wagnalia

Manhole No: A-4
Area:
Crew:
Date: 3/22/2016
Time: 0 10:21

N



Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [ ] Concrete Poured
- [x] Conrete Precast
- [ ] Fiberglass

Cover Size

MH CONDITION

- [x] Good
- [ ] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	7'0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [ ] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [x] Soil
- [x] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

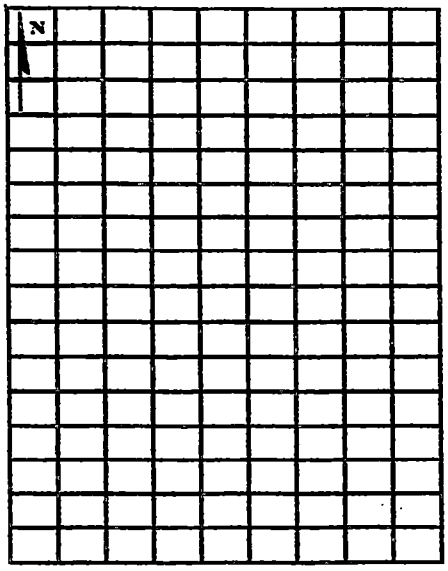
Estimated Cost = $

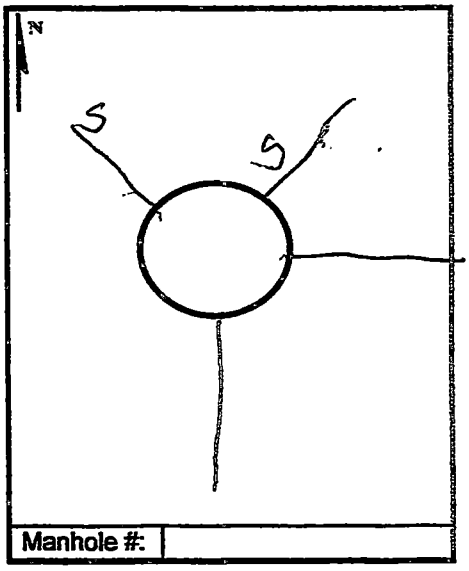
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	A-115
Area:	
Crew:	
Date:	3/23/2016
Time:	0 10:21

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	12'0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
X	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

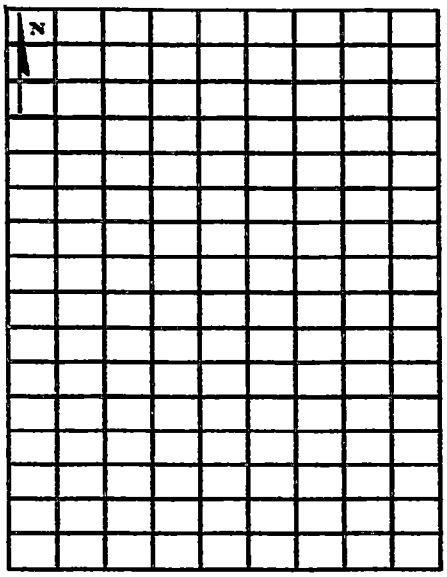
Estimated Cost = $

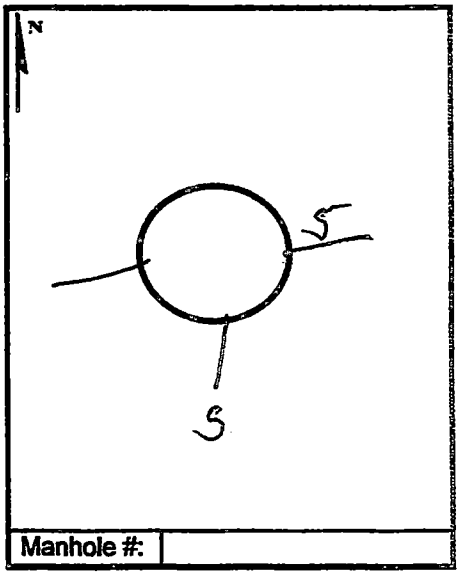
MANHOLE SURVEY

CITY OF:

Manhole No: 9-117
Area:
Crew:
Date: 3/23/2016
Time: 01:35

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	3'4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

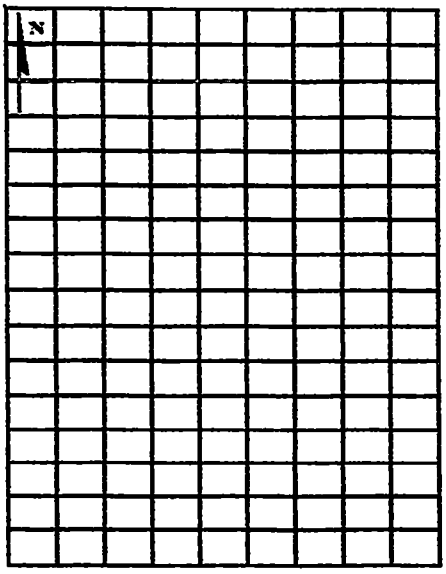
Estimated Cost = $

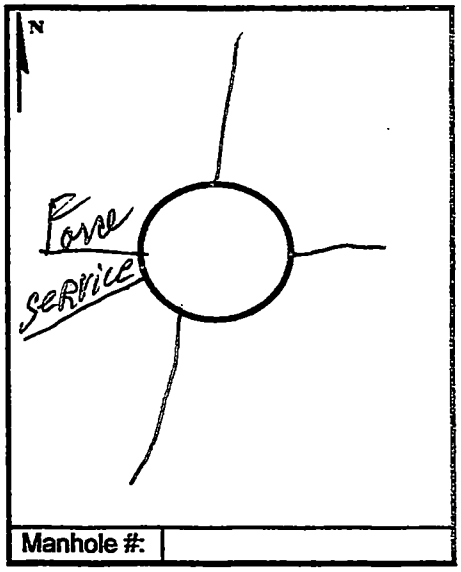
MANHOLE SURVEY

CITY OF:

Manhole No: 4-130
Area:
Crew:
Date: 3/23/2016
Time: 09:51

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	5'10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

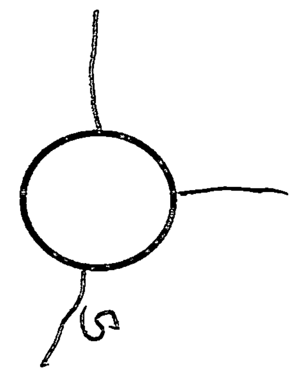
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 9-110
Area:
Crew:
Date: 3/23/2016
Time: 010:47

N								



Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [X] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass
- Cover Size ______

MH CONDITION

- [ ] Good
- [X] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	12.0					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay (circled) C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [ ] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [X] Soil
- [X] Grass
- [X] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [X] Visible Infiltration
- [X] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

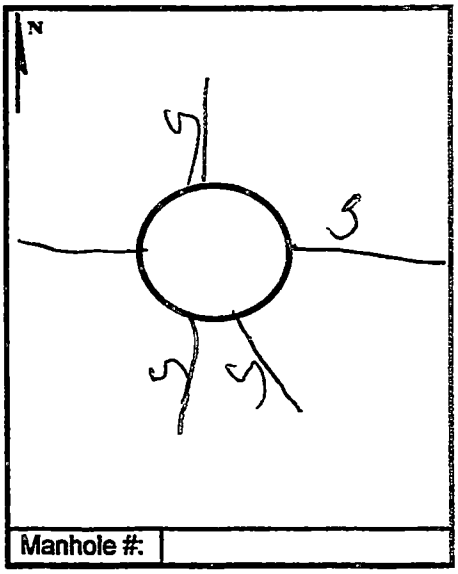
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 4-1114
Area:
Crew:
Date: 3/23/2016
Time: 11:11

N



Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [x] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	4.0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [ ] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [x] Soil
- [x] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

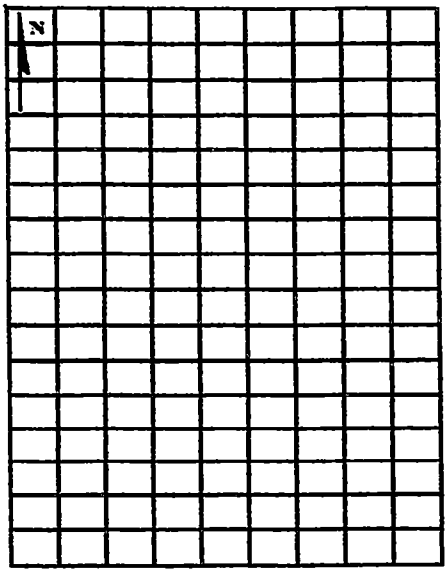
Estimated Cost = $

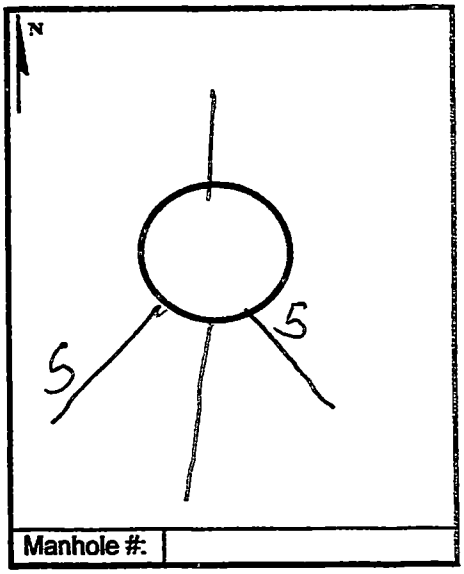
MANHOLE SURVEY

CITY OF:

Manhole No:	9-105
Area:	
Crew:	
Date:	3/23/2006
Time:	1:23

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	10'3"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

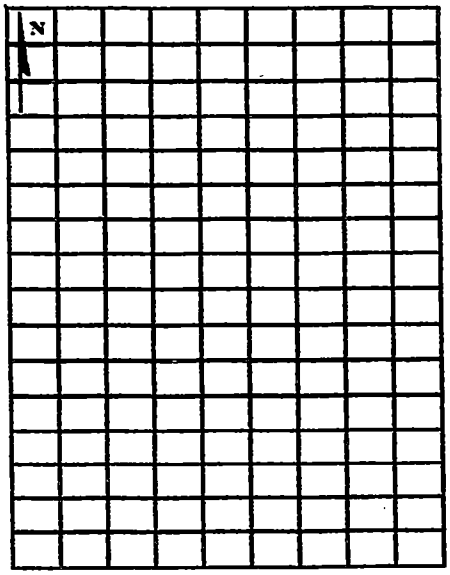
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

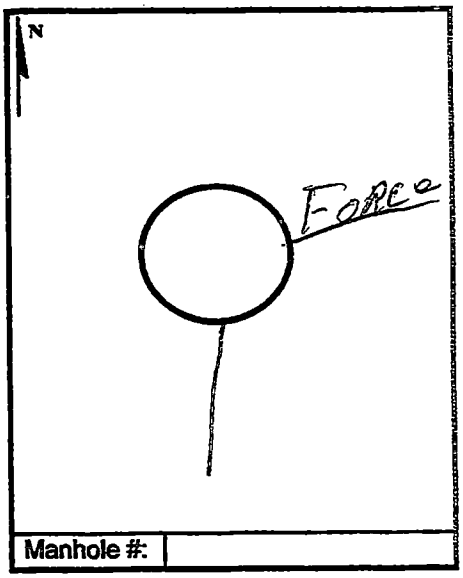
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 9-106
Area:
Crew:
Date: 3/23/2016
Time: 1:30





Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [X] Block
- [ ] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass
- Cover Size _____

MH CONDITION

- [ ] Good
- [X] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	4'0					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [X] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [X] Roots Present
- [X] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS

- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

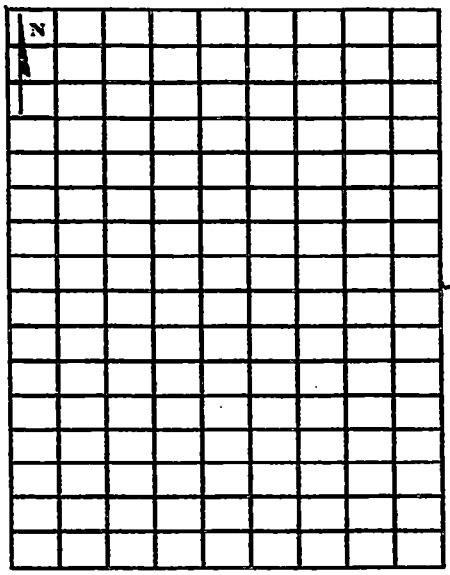
Estimated Cost = $

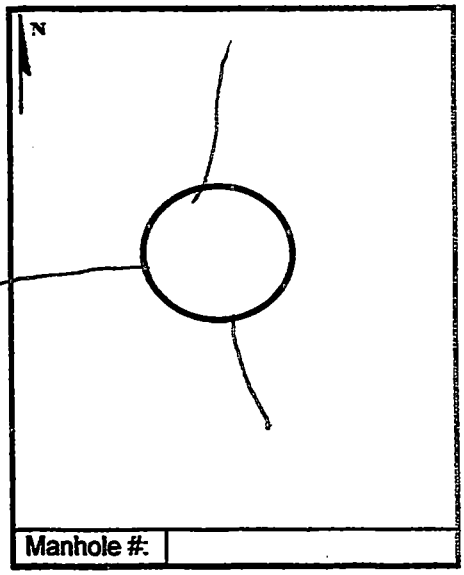
MANHOLE SURVEY

CITY OF:

Manhole No: 9-120
Area:
Crew:
Date: 3/23/2016
Time: 1:50

MANHOLE CONSTRUCTION
[ ] Brick
[X] Block
[ ] Concrete Poured
[ ] Conrete Precast
[ ] Fiberglass
Cover Size





Manhole #:

MH CONDITION
[ ] Good
[X] Fair
[ ] Poor
[ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	9'9"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
[ ] Concrete Pavement
[X] Asphalt Pavement
[ ] Gravel
[ ] Sidewalk
[ ] Soil
[ ] Grass
[ ] Trees

Potential For Inflow	Drainage Area =

[ ]	In Ditch
[ ]	In Pond Area
[ ]	In Flood Area

Cover Opening	1	2	3	4
Possible Head Size				

MH DEFECTS
[ ] Line Cracks
[ ] Circle Cracks
[ ] Broken Walls
[ ] Broken Pipe Entrance
[ ] Broken Bottom
[ ] Broken Frame
[ ] Broken Cover
[ ] Clogged with Debris
[ ] Roots Present
[X] Visible Infiltration
[ ] Visible Inflow

Infiltration:	Estimated Rate (GPM) =

[ ]	High
[ ]	Medium
[ ]	Low

LEAK DESCRIPTION

SOIL CONDITIONS
[X] Dry
[X] Moist
[ ] Wet
[ ] Saturated

SUGGESTED REHAB:

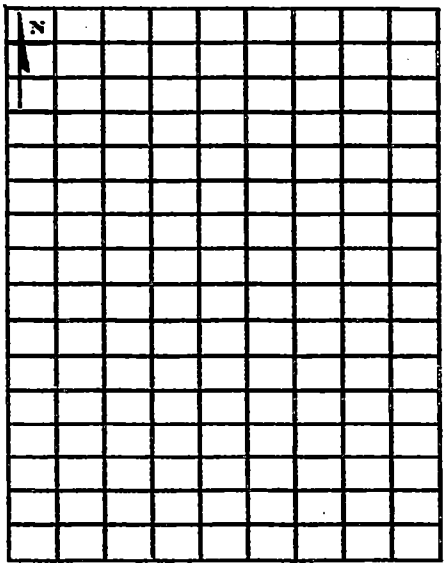
Estimated Cost = $

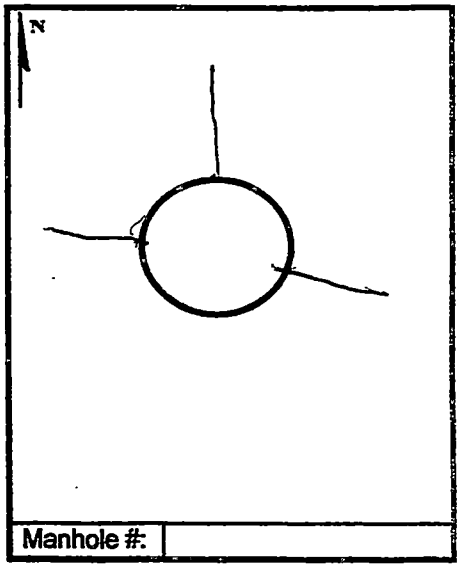
MANHOLE SURVEY

CITY OF:

Manhole No:	9-127
Area:	
Crew:	
Date:	3/23/2016
Time:	2:08

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	5'8"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
X	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

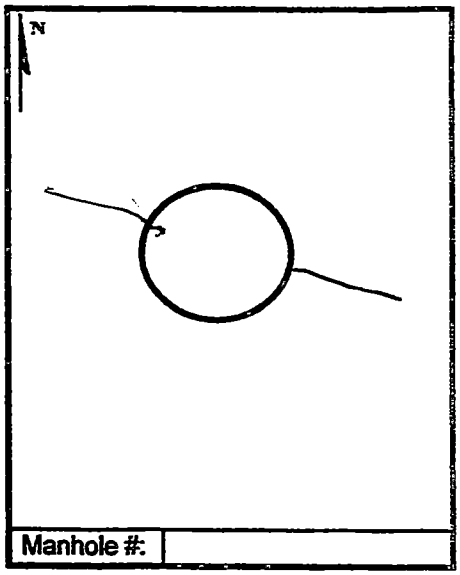
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 12-53
Area:
Crew:
Date: 2/23/2010
Time:

N



Manhole #:

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	4"S					
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
X	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

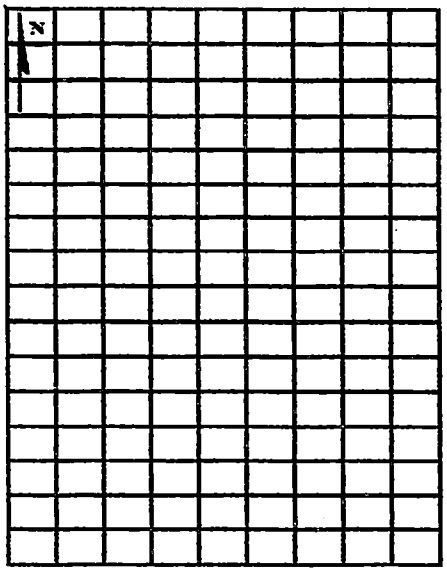
Estimated Cost = $

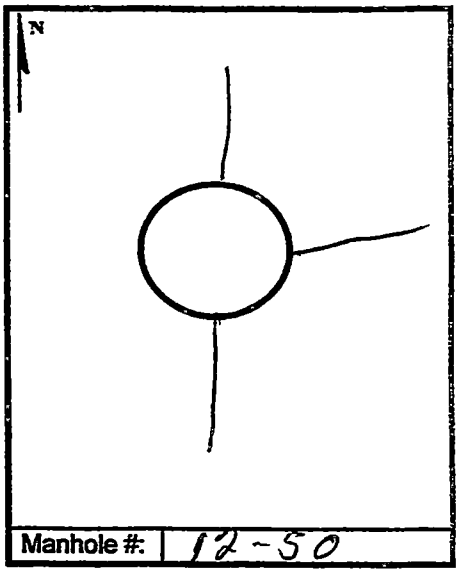
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	12-50
Area:	
Crew:	
Date:	3/24/2016
Time:	09:11

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size 23 1/2





Manhole #: 12-50

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	8'0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
X	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

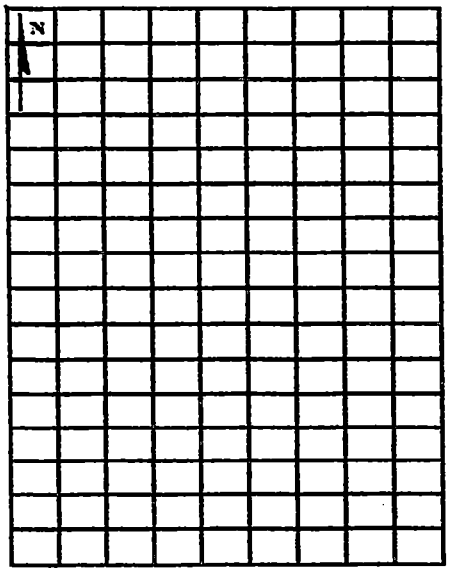
Estimated Cost = $

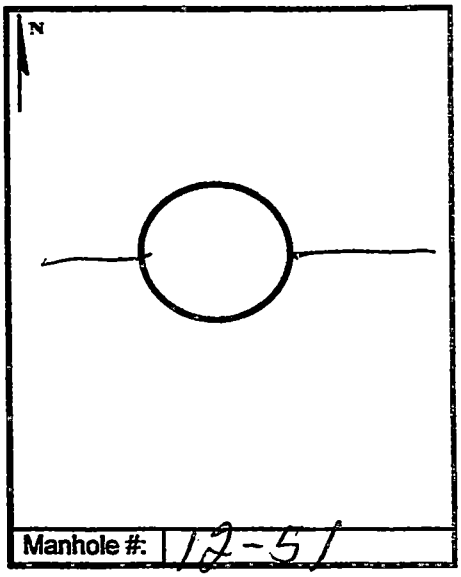
MANHOLE SURVEY

CITY OF:

Manhole No:	12-51
Area:	
Crew:	
Date:	3/24/2016
Time:	10:29

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	6'11"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
X	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

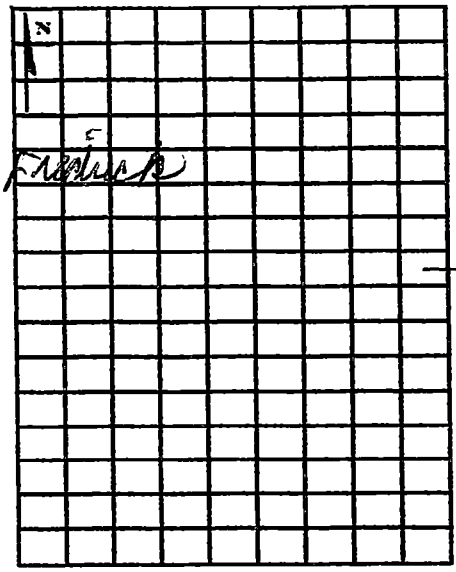
SUGGESTED REHAB:

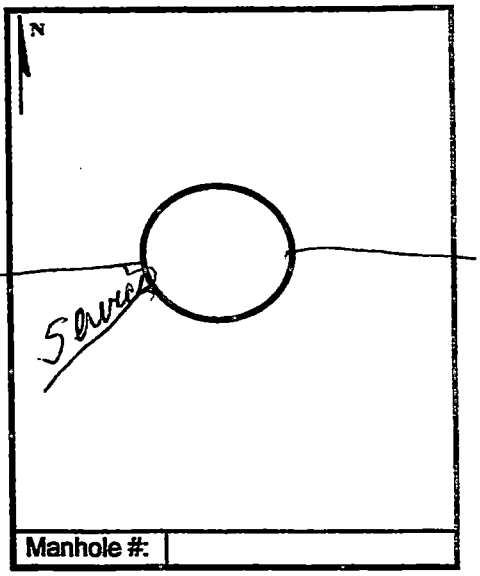
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 7-13
Area: Dewberry & Fredricks
Crew:
Date: 3/28/2016
Time: 08:54





Manhole #:

MANHOLE CONSTRUCTION
[ ] Brick
[ ] Block
[X] Concrete Poured
[ ] Conrete Precast
[ ] Fiberglass
Cover Size _____

MH CONDITION
[ ] Good
[X] Fair
[ ] Poor
[ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	5'0					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
[ ] Concrete Pavement
[ ] Asphalt Pavement
[X] Gravel
[ ] Sidewalk
[X] Soil
[X] Grass
[ ] Trees

Potential For Inflow Drainage Area =

[ ]	In Ditch
[ ]	In Pond Area
[ ]	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
[ ] Line Cracks
[ ] Circle Cracks
[ ] Broken Walls
[ ] Broken Pipe Entrance
[ ] Broken Bottom
[ ] Broken Frame
[ ] Broken Cover
[ ] Clogged with Debris
[X] Roots Present
[X] Visible Infiltration
[ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

[ ]	High
[ ]	Medium
[ ]	Low

LEAK DESCRIPTION

SOIL CONDITIONS
[X] Dry
[ ] Moist
[ ] Wet
[ ] Saturated

SUGGESTED REHAB:

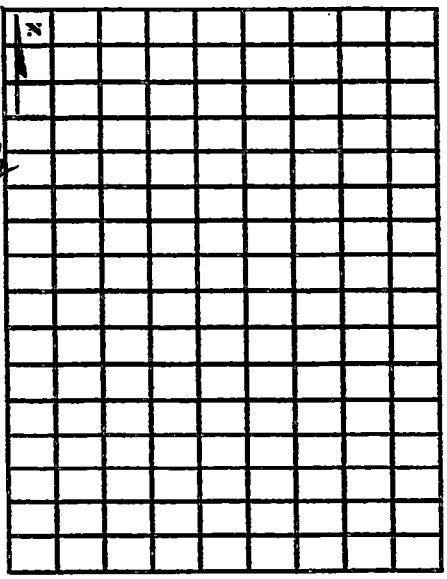
Estimated Cost = $

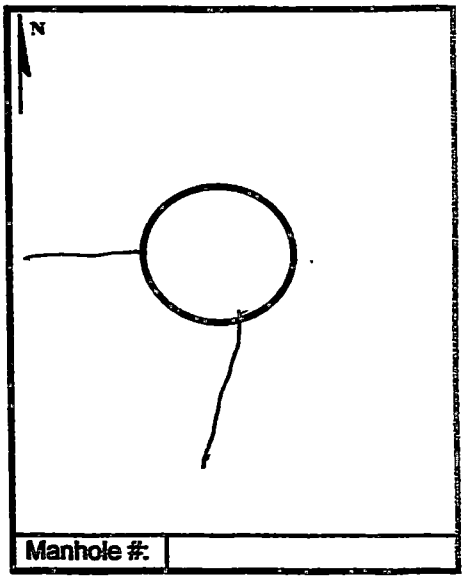
MANHOLE SURVEY

CITY OF:

Manhole No: 10-46
Area: ~~Main~~ Blackburn + Jack
Crew:
Date: 3/28/2016
Time: 09:42

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #:

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	7 ft					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

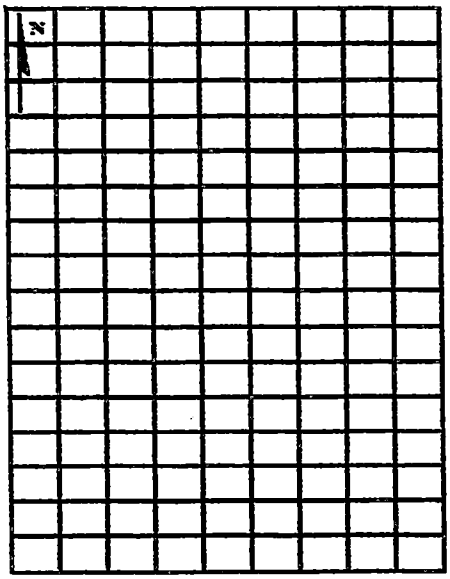
SUGGESTED REHAB:

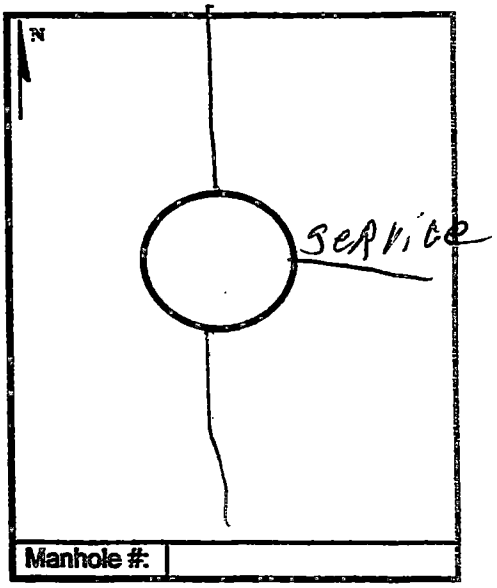
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 10-45
Area:
Crew:
Date: 3/29/2012
Time: 10:44





Manhole #:

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [x] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size

MH CONDITION

- [ ] Good
- [x] Fair
- [x] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [ ] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [x] Soil
- [x] Grass
- [ ] Trees

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [x] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	6'4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

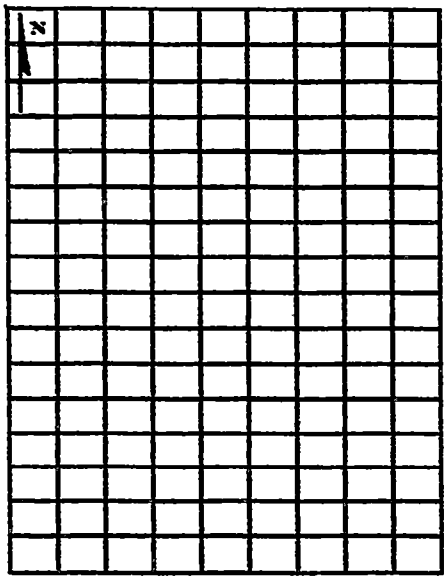
SUGGESTED REHAB:

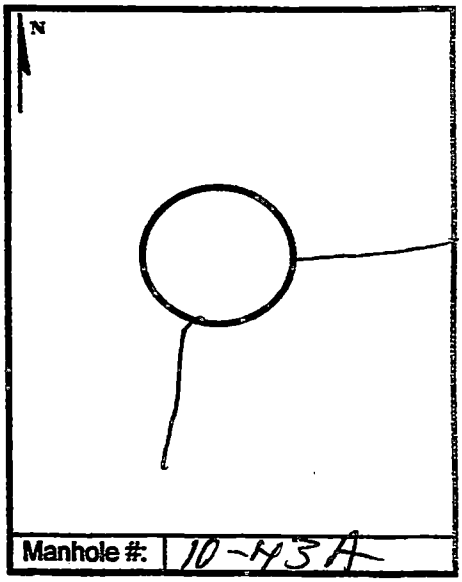
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 10-43A
Area: Blackberry
Crew:
Date: 3/25/2016
Time: 1:00





MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
X	Concrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	10'	10"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

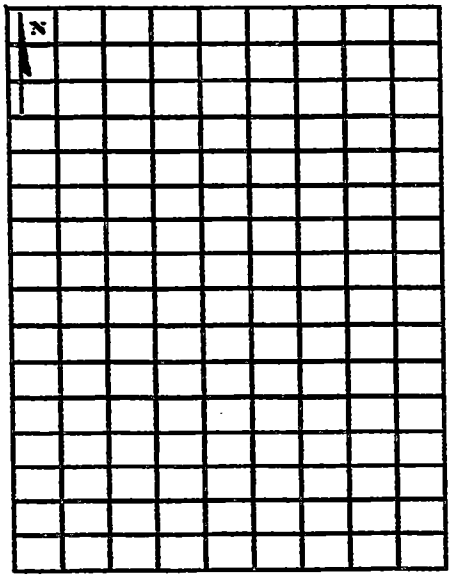
Estimated Cost = $

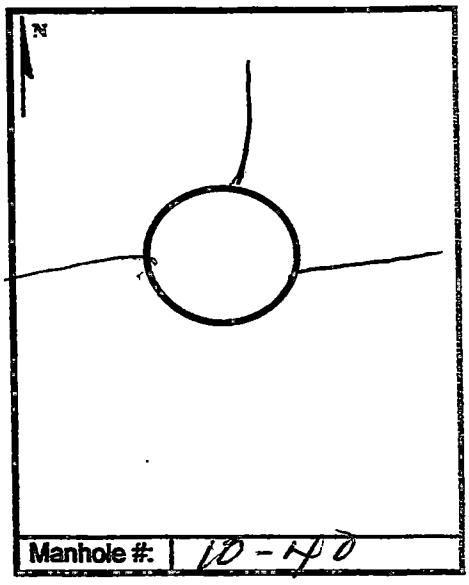
MANHOLE SURVEY

CITY OF:

Manhole No:	10-40
Area:	
Crew:	
Date:	3/29/2010
Time:	2:05

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	8'	16'				
Depth of Surchage						
Depth of Flow						

VC - Verified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

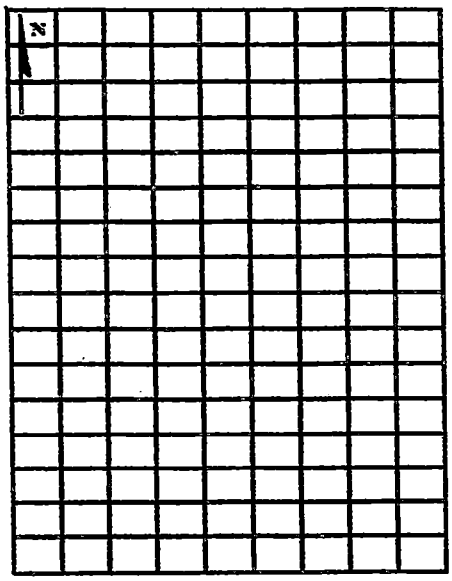
Estimated Cost = $

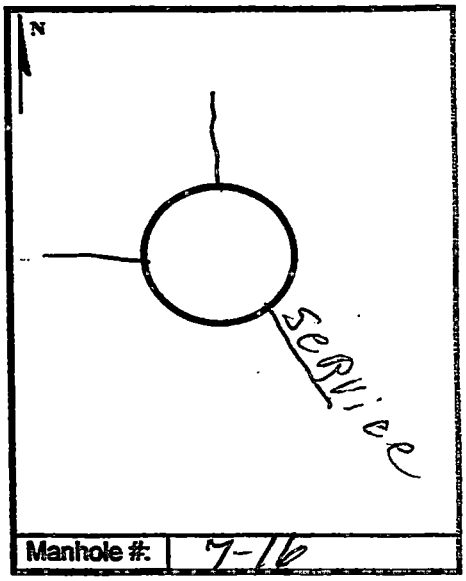
MANHOLE SURVEY

CITY OF:

Manhole No:	7-16
Area:	
Crew:	
Date:	3/29/2016
Time:	2:39

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	11'8"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

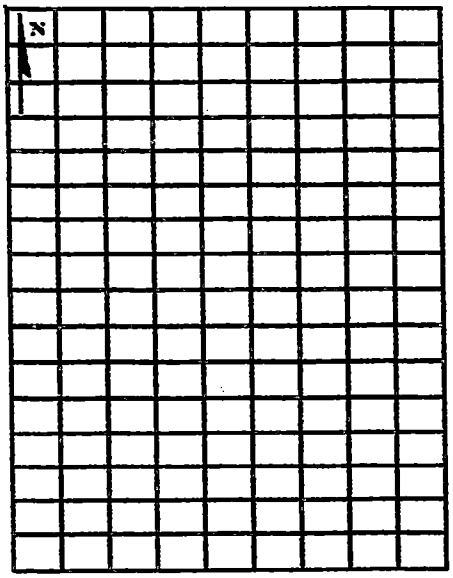
Estimated Cost = $

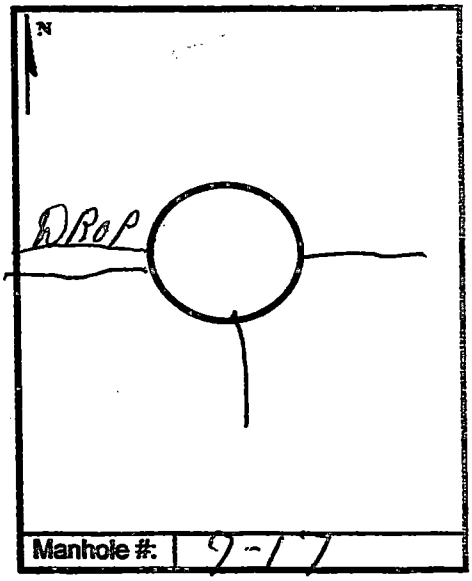
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	7-17
Area:	
Crew:	
Date:	3/29/2016
Time:	08:23

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 7-17

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert		13'10"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

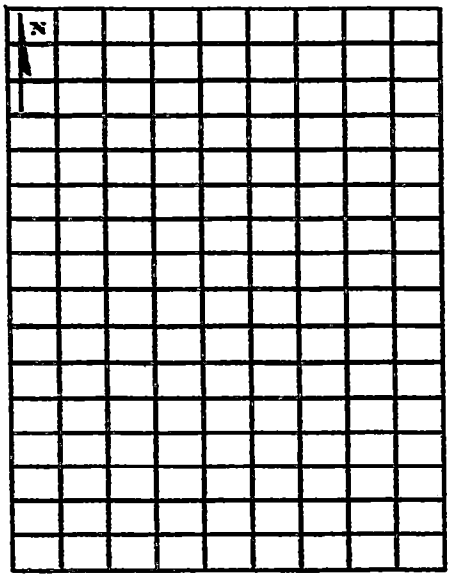
SUGGESTED REHAB:

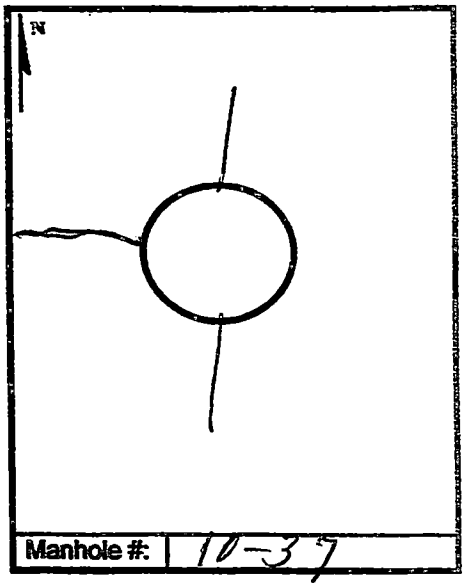
Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No: 10-37
Area:
Crew:
Date: 3/29/2016
Time: 9:04





Manhole #: 10-37

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	5'5"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

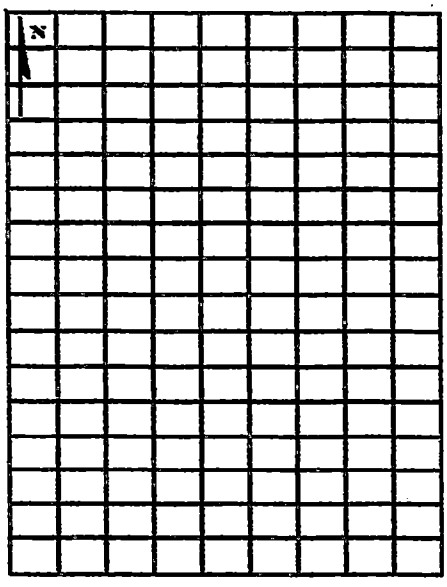
Estimated Cost = $

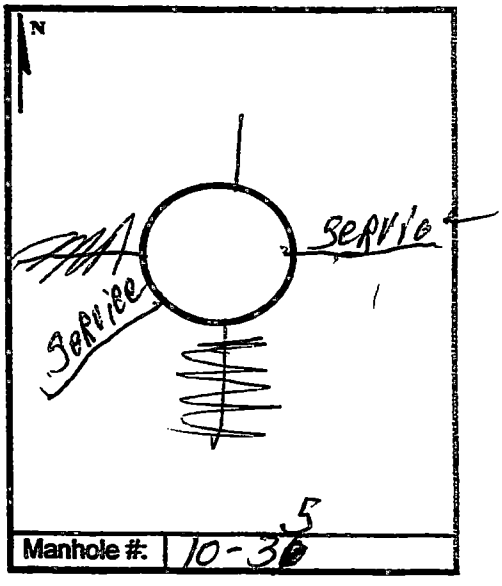
MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	10-35
Area:	
Crew:	
Date:	3/29/2016
Time:	9:38

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	4'9"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
X	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	10-23
Area:	
Crew:	
Date:	3/29-2016
Time:	10:00

N

N

Service

Manhole #: 10-23

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert		5'-9"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride

CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

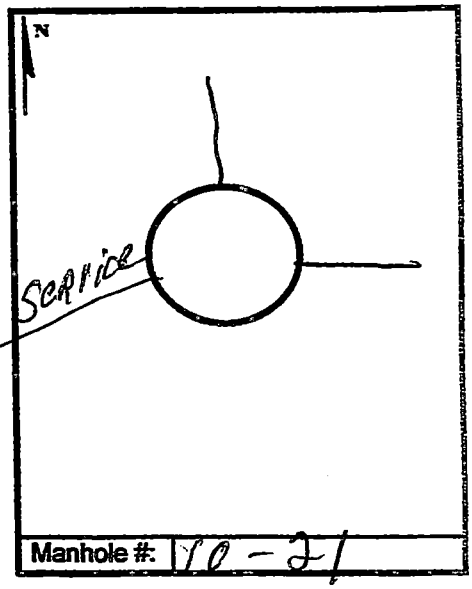
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

MANHOLE SURVEY

CITY OF:
Magnolia

Manhole No:	10-21
Area:	
Crew:	
Date:	3/29/2016
Time:	10:18

N



Manhole #: 10-21

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration Bad
X	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

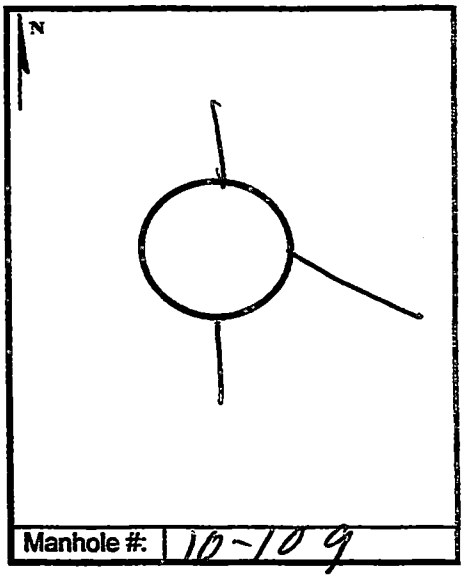
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 10-109
Area:
Crew:
Date: 5/19/2016
Time: 1:00

N



Manhole #: 10-109

MANHOLE CONSTRUCTION
X Brick
Block
Concrete Poured
Conrete Precast
Fiberglass
Cover Size

MH CONDITION
Good
X Fair
Poor
Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	6'8"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
Concrete Pavement
X Asphalt Pavement
Gravel
Sidewalk
Soil
Grass
Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
X Line Cracks
Circle Cracks
Broken Walls
Broken Pipe Entrance
Broken Bottom
Broken Frame
Broken Cover
Clogged with Debris
Roots Present
Visible Infiltration
Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS
X Dry
Moist
Wet
Saturated

SUGGESTED REHAB:

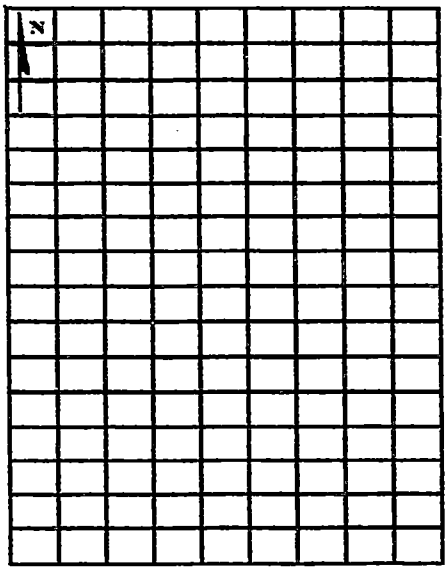
Estimated Cost = $

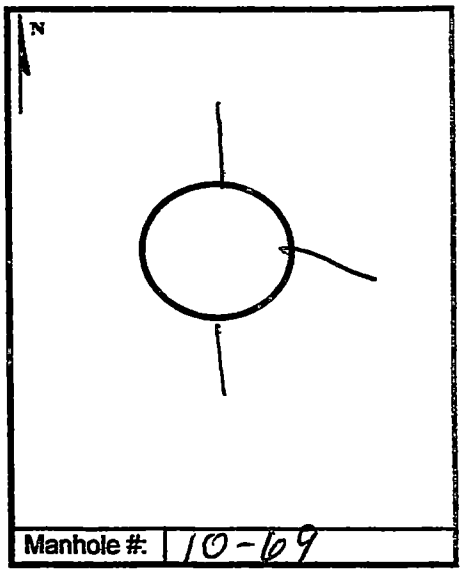
MANHOLE SURVEY

CITY OF:

Manhole No:	10-69
Area:	
Crew:	
Date:	5/19/2010
Time:	1:40

MANHOLE CONSTRUCTION	
X	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 10-69

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	10'					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
X	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
X	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

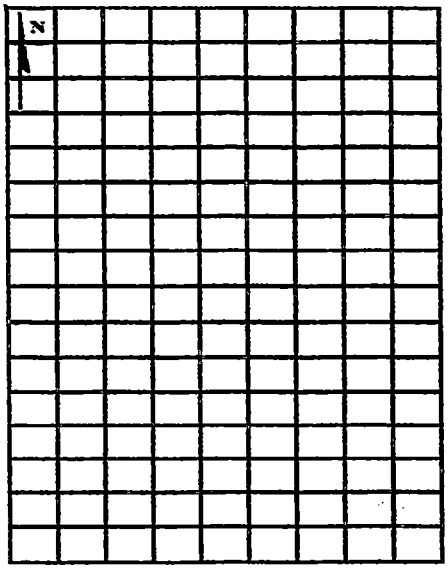
Estimated Cost = $

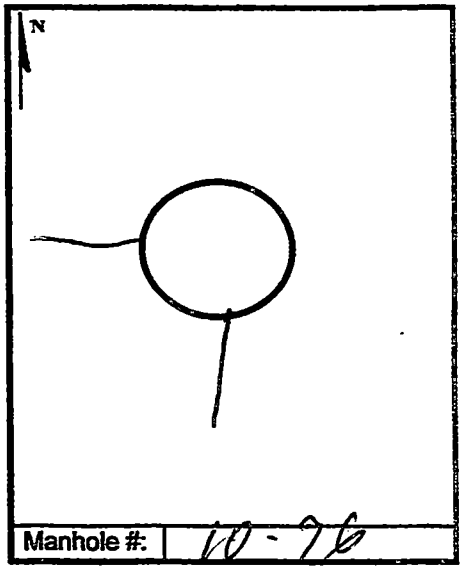
MANHOLE SURVEY

CITY OF:

Manhole No:	10+70
Area:	
Crew:	
Date:	5/19/2016
Time:	2:38

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	10'	3"				
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

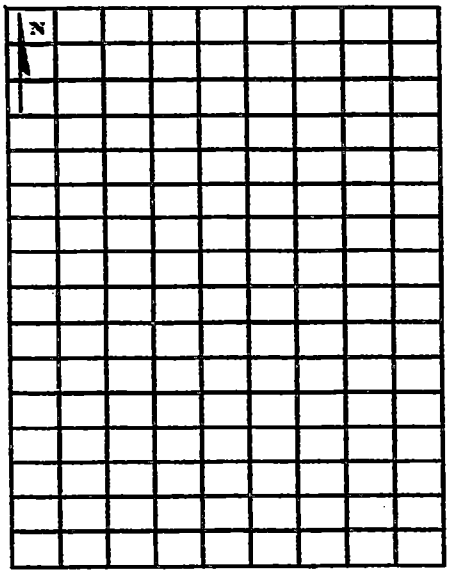
Estimated Cost = $

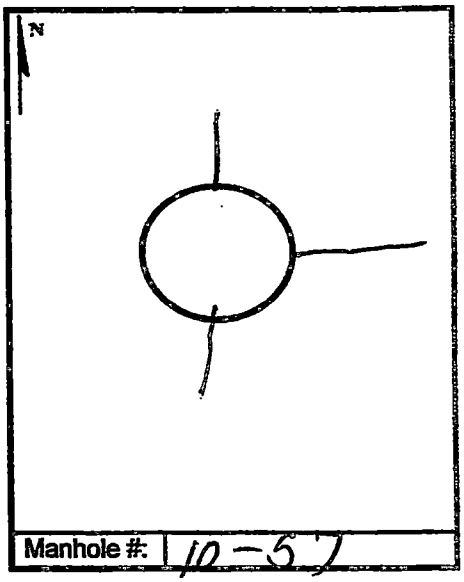
MANHOLE SURVEY

CITY OF:

Manhole No:	10-57
Area:	
Crew:	
Date:	5/20/2016
Time:	1:30

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 10-57

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6"					
Depth of Invert	9"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

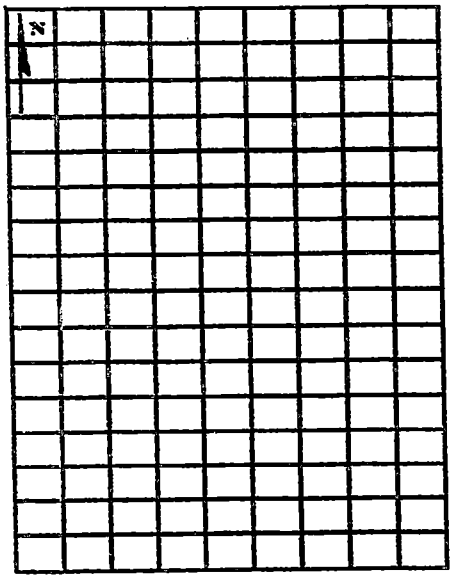
SUGGESTED REHAB:

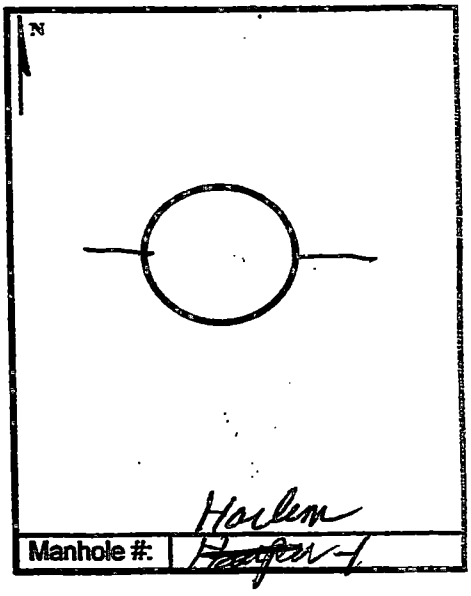
Estimated Cost = $

MANHOLE SURVEY

CITY OF: Magnolia

Manhole No: Harlem - 1
Area:
Crew:
Date: 3/30/2016
Time: 9:26





MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [ ] Concrete Poured
- [x] Concrete Precast
- [ ] Fiberglass
- Cover Size 23 1/2

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert		5'10				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [ ] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [x] Soil
- [x] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

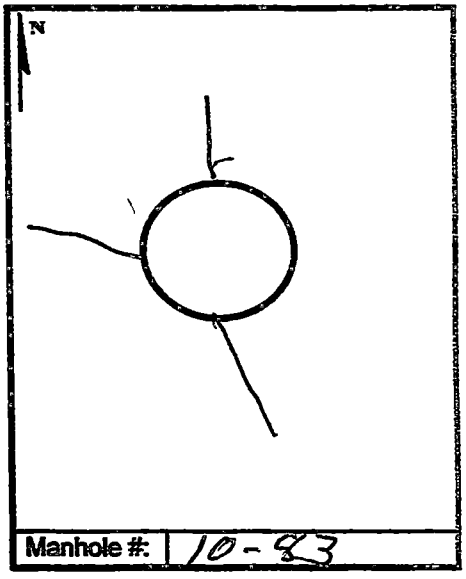
Estimated Cost = $

MANHOLE SURVEY

CITY OF: Magnolia

Manhole No: 10-83
Area:
Crew:
Date:
Time:

N



Manhole #: 10-83

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [x] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size 23/12

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [x] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	H:0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

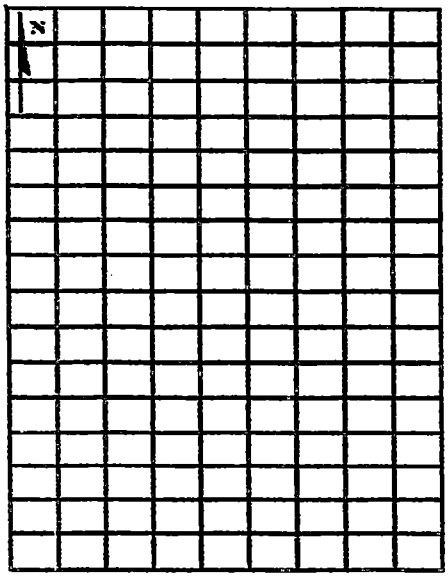
Estimated Cost = $

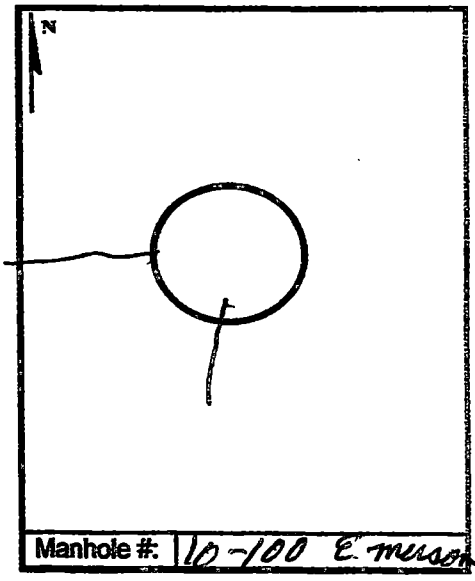
MANHOLE SURVEY

CITY OF:
Wagoner

Manhole No:	10-100
Area:	Emerson
Crew:	
Date:	7/31/2016
Time:	08:57

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size 23 1/2





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8					
Depth of Invert	5'0					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

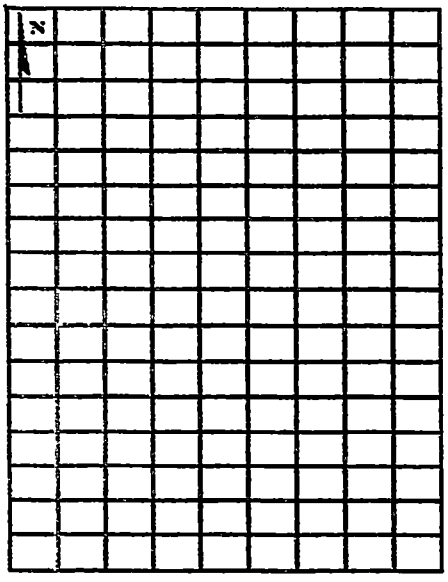
Estimated Cost = $

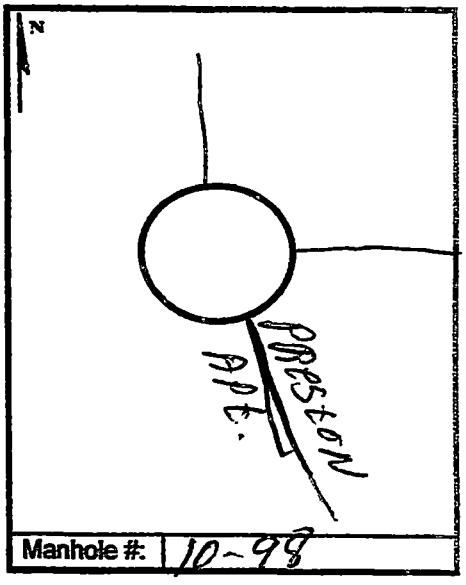
SOIL CONDITIONS	
	Dry
X	Moist
	Wet
	Saturated

MANHOLE SURVEY

CITY OF: Magnolia

Manhole No: 10-98
Area:
Crew:
Date: 4/1/2016
Time:





MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [x] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size 23/2

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6"	11				
Depth of Invert	5'1	5"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [x] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [x] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

SUGGESTED REHAB:

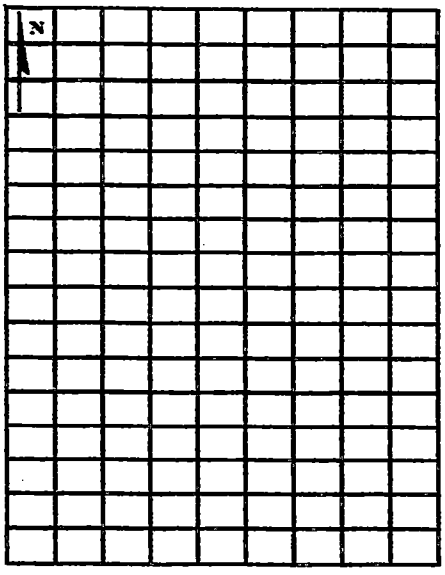
Estimated Cost = $

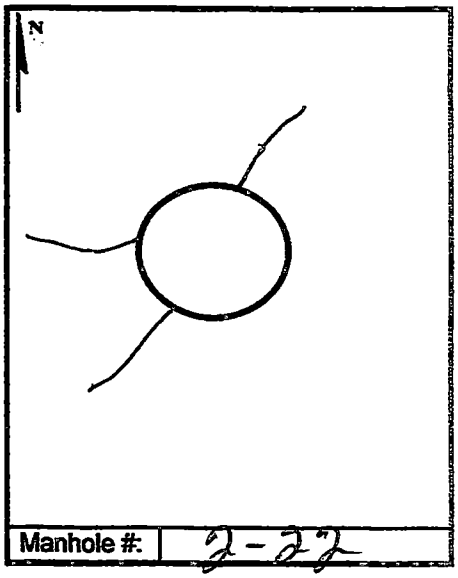
MANHOLE SURVEY

CITY OF:

Manhole No: 2-22
Area:
Crew:
Date: 5/26/2016
Time: 08:47

MANHOLE CONSTRUCTION
[X] Brick
[X] Block
[ ] Concrete Poured
[ ] Conrete Precast
[ ] Fiberglass
Cover Size





Manhole #: 2-22

MH CONDITION
[ ] Good
[X] Fair
[X] Poor
[ ] Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6"					
Depth of Invert	5'4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
[ ] Concrete Pavement
[X] Asphalt Pavement
[ ] Gravel
[ ] Sidewalk
[ ] Soil
[ ] Grass
[ ] Trees

Potential For Inflow	Drainage Area =

[ ]	In Ditch
[ ]	In Pond Area
[ ]	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
[ ] Line Cracks
[ ] Circle Cracks
[ ] Broken Walls
[ ] Broken Pipe Entrance
[ ] Broken Bottom
[ ] Broken Frame
[ ] Broken Cover
[ ] Clogged with Debris
[ ] Roots Present
[ ] Visible Infiltration
[ ] Visible Inflow

Infiltration:	Estimated Rate (GPM) =

[ ]	High
[ ]	Medium
[ ]	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS
[X] Dry
[ ] Moist
[ ] Wet
[ ] Saturated

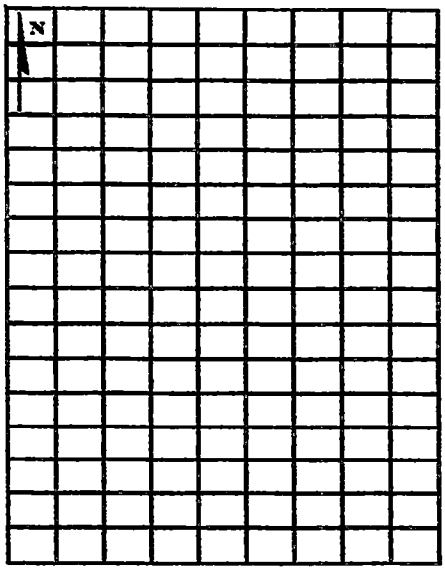
Estimated Cost = $

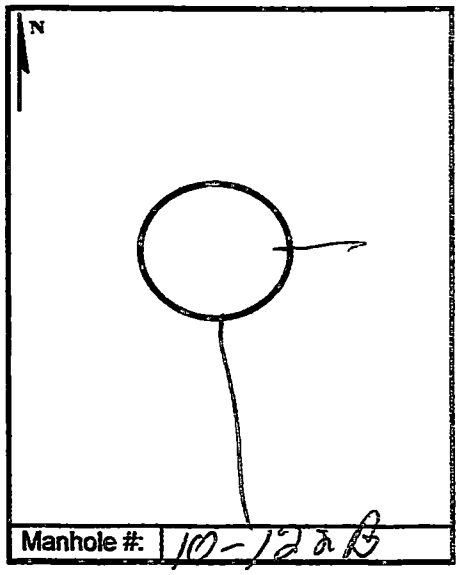
MANHOLE SURVEY

CITY OF:

Manhole No: 10-123-B
Area:
Crew:
Date: 5/24/2011
Time: 0925

MANHOLE CONSTRUCTION	
✓	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	VC					
Size	8					
Depth of Invert	5'9					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
✓	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

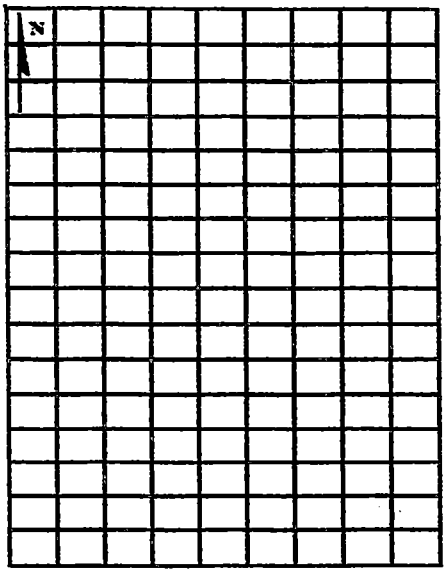
Estimated Cost = $

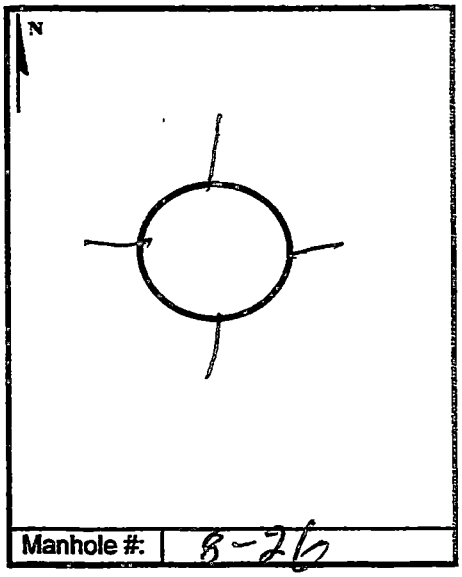
MANHOLE SURVEY

CITY OF:

Manhole No: 8-26
Area:
Crew:
Date: 5/26/2016
Time: 1:15

MANHOLE CONSTRUCTION	
	Brick
	Block
✓	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 8-26

MH CONDITION	
X	Good
	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	4"					
Depth of Invert	7½"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

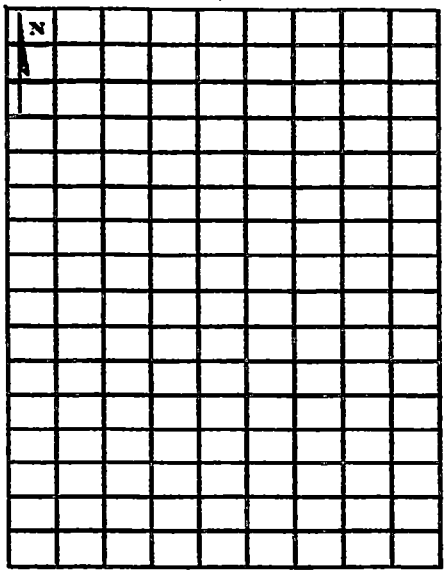
Estimated Cost = $

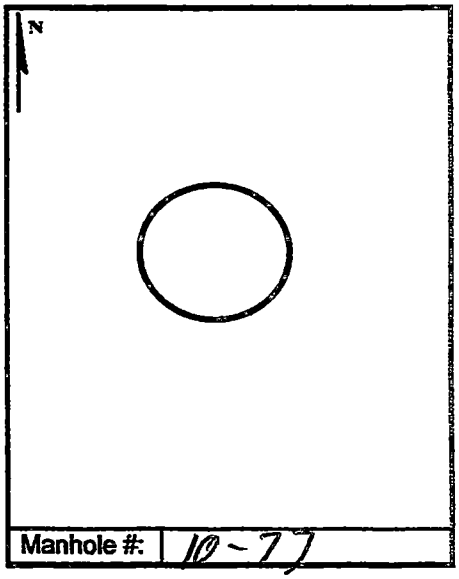
MANHOLE SURVEY

CITY OF:

Manhole No: 10-77
Area:
Crew:
Date: 5-26-2016
Time: 2049

MANHOLE CONSTRUCTION
✓ Brick
Block
Concrete Poured
Conrete Precast
Fiberglass
Cover Size





Manhole #: 10-77

MH CONDITION
Good
X Fair
Poor
Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert	10'6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
Concrete Pavement
X Asphalt Pavement
Gravel
Sidewalk
Soil
Grass
Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
Line Cracks
Circle Cracks
Broken Walls
Broken Pipe Entrance
Broken Bottom
Broken Frame
Broken Cover
Clogged with Debris
Roots Present
X Visible Infiltration
Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS
X Dry
Moist
Wet
Saturated

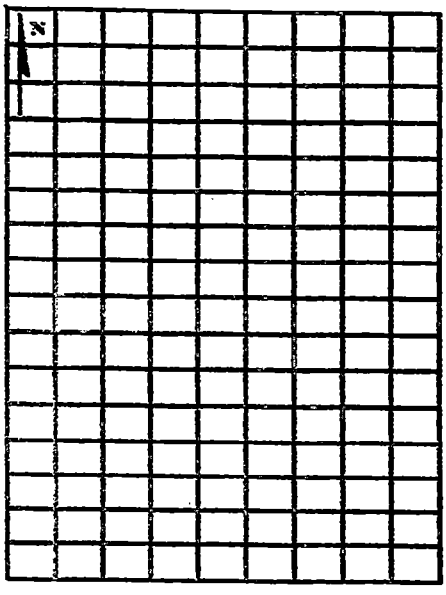
Estimated Cost = $

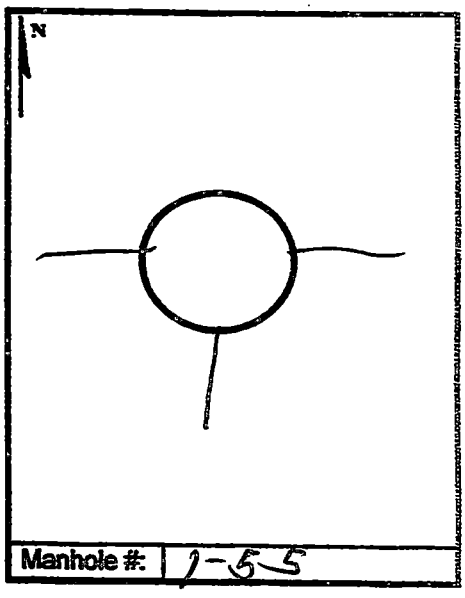
MANHOLE SURVEY

CITY OF:

Manhole No:	1-55
Area:	
Crew:	
Date:	5/3/2016
Time:	1:45

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	8'9"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
X	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

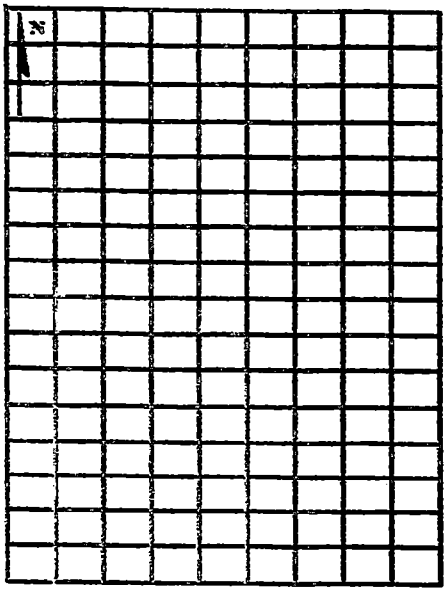
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

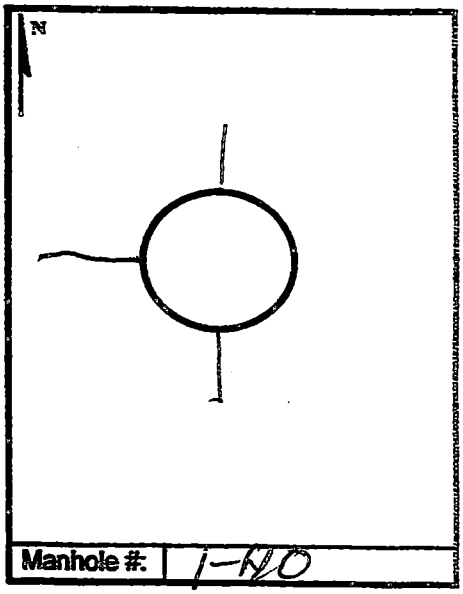
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: I-40
Area:
Crew:
Date: 9:15
Time: 5/3/2016





MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [X] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION

- [X] Good
- [ ] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS

	A	B	C	D	E	F
Material						
Size	12"					
Depth of Invert	4'3"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER

- [ ] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [X] Clogged with Debris
- [ ] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS

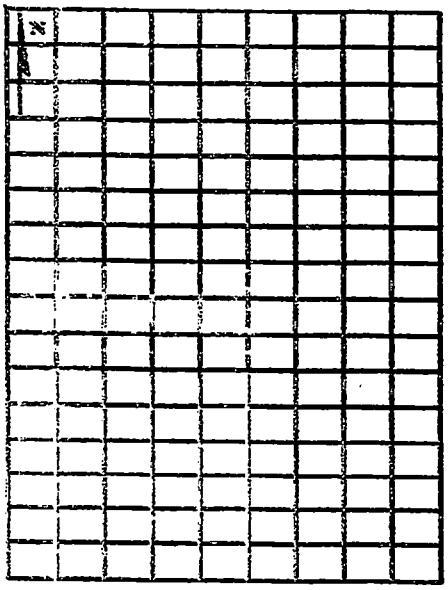
- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

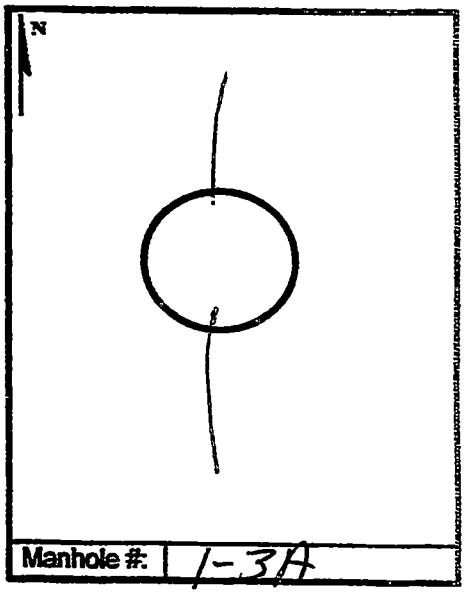
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: I-3A
Area:
Crew:
Date: 5/3/2016
Time: 2:40





MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [ ] Concrete Poured
- [X] Concrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION

- [ ] Good
- [X] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		8"				
Depth of Invert		8'2"				
Depth of Surcharge						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

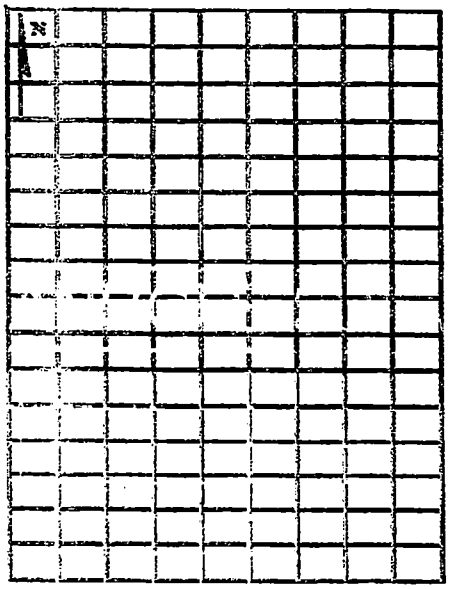
SUGGESTED REHAB:

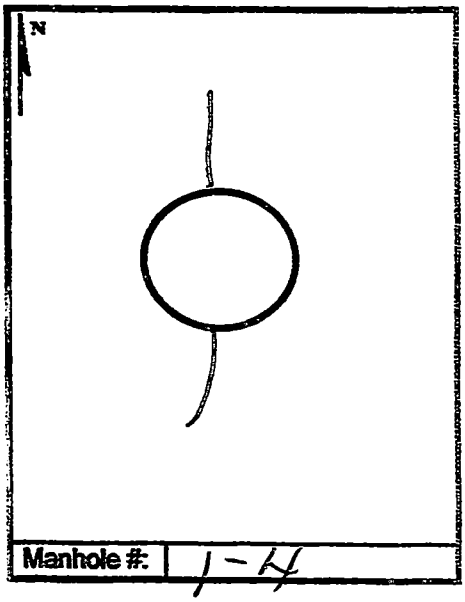
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 1-4
Area:
Crew:
Date: 5/31/2016
Time: 2:50





MANHOLE CONSTRUCTION
- [ ] Brick
- [ ] Block
- [X] Concrete Poured
- [ ] Concrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION
- [X] Good
- [ ] Fair
- [ ] Poor
- [ ] Leaking

LINE CONDITIONS

	A	B	C	D	E	F
Material						
Size		8"				
Depth of Invert		1'4'6"				
Depth of Surcharge						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
- [ ] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

Potential For Inflow — Drainage Area =

- [ ] Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [X] Visible Infiltration
- [ ] Visible Inflow

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS
- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

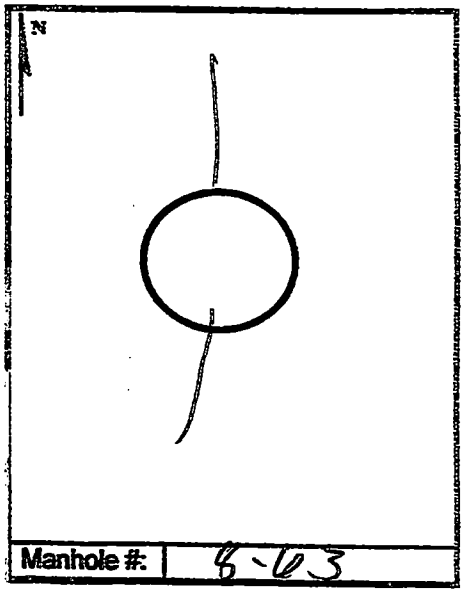
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: S-63
Area:
Crew:
Date: 6/2/2016
Time: 1:31

N



Manhole #: S-63

MANHOLE CONSTRUCTION

- [ ] Brick
- [ ] Block
- [X] Concrete Poured
- [ ] Concrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION

- [ ] Good
- [X] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

LINE CONDITIONS

	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert						
Depth of Surcharge	6'0					
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [X] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

Infiltration Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS

- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

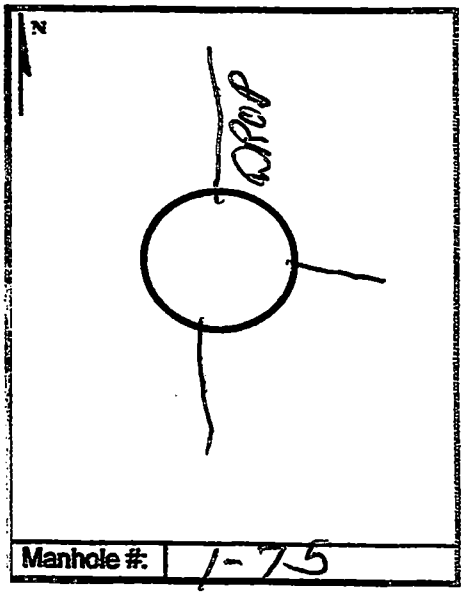
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 1-75
Area:
Crew:
Date: 6/2/2016
Time: 2:00

N



Manhole #: 1-75

MANHOLE CONSTRUCTION
- ✓ Brick
- Block
- Concrete Poured
- Concrete Precast
- Fiberglass
- Cover Size

MH CONDITION
- ✓ Good
- Fair
- Poor
- Leaking

AREA COVER
- Concrete Pavement
- Asphalt Pavement
- ✓ Gravel
- Sidewalk
- Soil
- Grass
- Trees

LINE CONDITIONS

	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	7'10"					
Depth of Surcharge						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- In Ditch
- In Pond Area
- In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
- Line Cracks
- Circle Cracks
- Broken Walls
- Broken Pipe Entrance
- Broken Bottom
- Broken Frame
- Broken Cover
- Clogged with Debris
- Roots Present
- X Visible Infiltration
- Visible Inflow

Infiltration Estimated Rate (GPM) =

- High
- Medium
- Low

LEAK DESCRIPTION

SOIL CONDITIONS
- X Dry
- Moist
- Wet
- Saturated

SUGGESTED REHAB:

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: I-16
Area:
Crew:
Date: 6/7/2016
Time: 2:37

N

N

Manhole #: I-16

MANHOLE CONSTRUCTION

- [X] Brick
- [ ] Block
- [ ] Concrete Poured
- [ ] Concrete Precast
- [ ] Fiberglass
- Cover Size

MH CONDITION

- [ ] Good
- [X] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [X] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

MH DEFECTS

- [ ] Lane Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [X] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [X] Clogged with Debris
- [ ] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [X] Dry
- [ ] Moist
- [ ] Wet
- [ ] Submerged

LINE CONDITIONS

	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	5'0"					
Depth of Surcharge						
Depth of Flow						

VC - Vitrified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] Pitch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

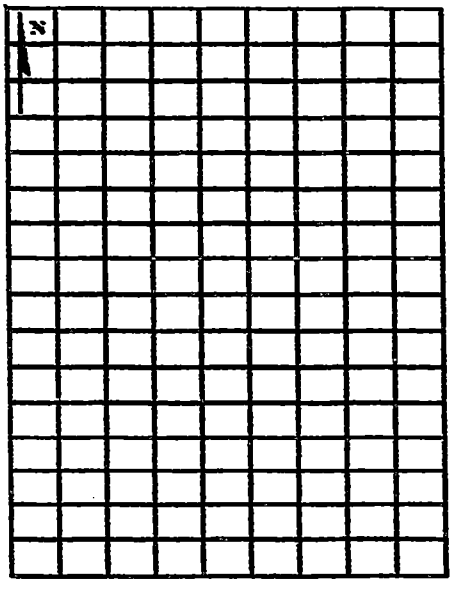
Estimated Cost = $

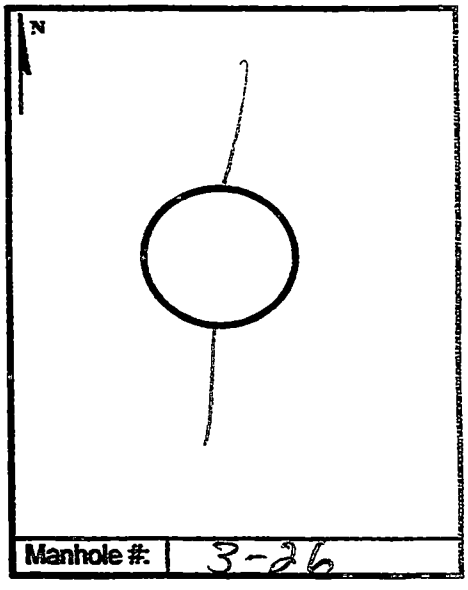
MANHOLE SURVEY

CITY OF:

Manhole No:	3-26
Area:	
Crew:	
Date:	6/6/2016
Time:	09:30

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 3-26

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material		11				
Size		8				
Depth of Invert		6' 7"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
X	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

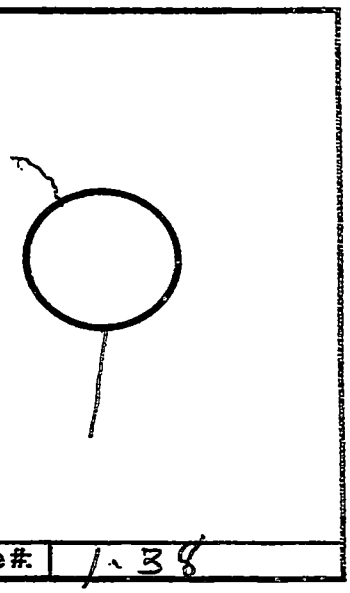
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	1-38
Area:	
Crew:	
Date:	6/6/2010
Time:	10:30

N



Manhole #: 1-38

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	6' 10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

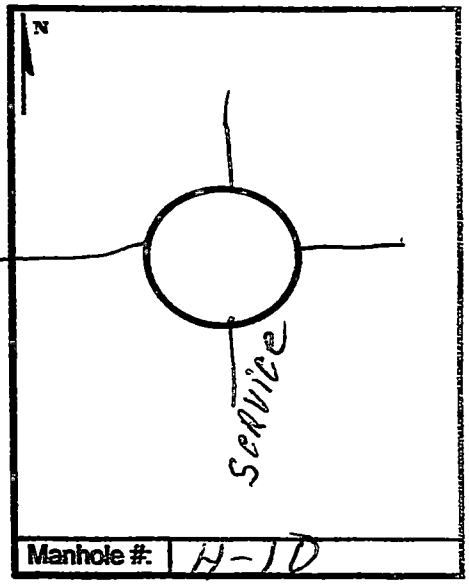
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	H-10
Area:	
Crew:	
Date:	6/6/2016
Time:	1:25

N



Manhole #: H-10

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material		8"				
Size		8				
Depth of Invert		8'11"				
Depth of Surchage						
Depth of Flow						

VC - Verified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

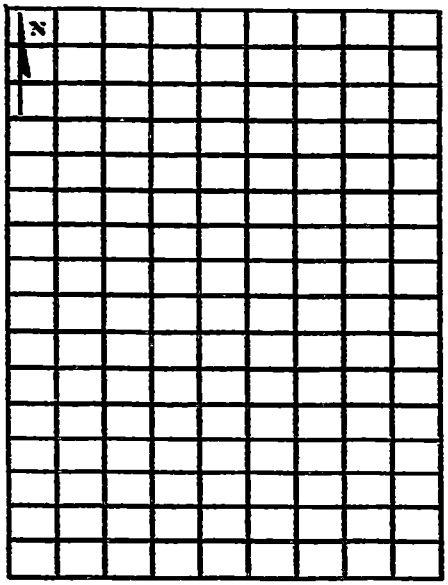
Estimated Cost = $

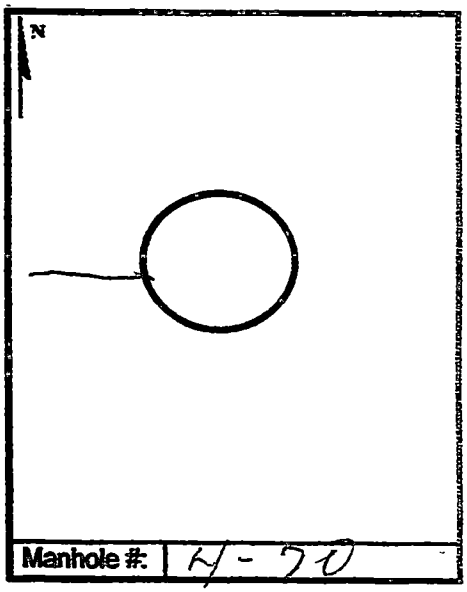
MANHOLE SURVEY

CITY OF:

Manhole No:	H-70
Area:	
Crew:	
Date:	6/6/2016
Time:	

MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	VC					
Size	8					
Depth of Invert	4'6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Off set Ring & Lid

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

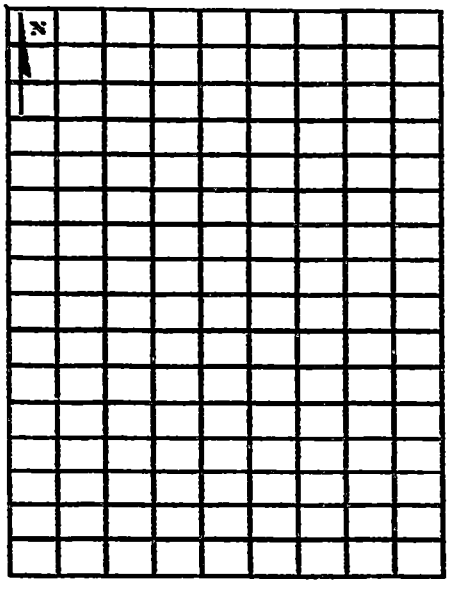
Estimated Cost = $

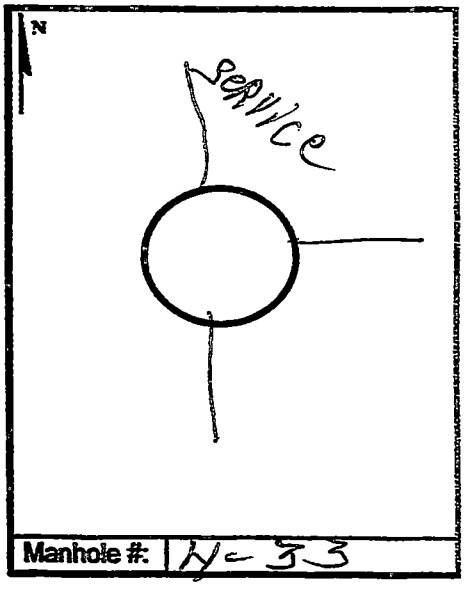
MANHOLE SURVEY

CITY OF:

Manhole No:	H-33
Area:	
Crew:	
Date:	6/8/2006
Time:	10:06

MANHOLE CONSTRUCTION	
	Brick
	Block
✓	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	9'	10"				
Depth of Surchage						
~~Depth of Flow~~						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

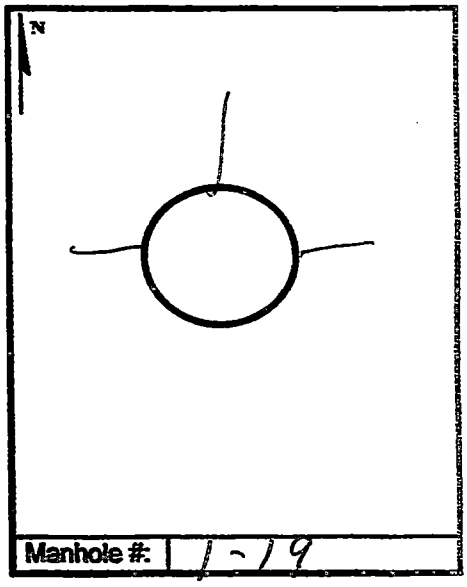
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	1-19
Area:	
Crew:	
Date:	6/8/2016
Time:	1:23

N



Manhole #: 1-19

MANHOLE CONSTRUCTION
Brick
Block
Concrete Poured
Conrete Precast
Fiberglass
Cover Size

MH CONDITION
Good
Fair
Poor
Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	6'0					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER
Concrete Pavement
Asphalt Pavement
Gravel
Sidewalk
Soil
Grass
Trees

Potential For Inflow Drainage Area =

In Ditch
In Pond Area
In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS
Line Cracks
Circle Cracks
Broken Walls
Broken Pipe Entrance
Broken Bottom
Broken Frame
Broken Cover
Clogged with Debris
Roots Present
Visible Infiltration
Visible Inflow

Infiltration: Estimated Rate (GPM) =

High
Medium
Low

LEAK DESCRIPTION

SOIL CONDITIONS
Dry
Moist
Wet
Saturated

SUGGESTED REHAB:

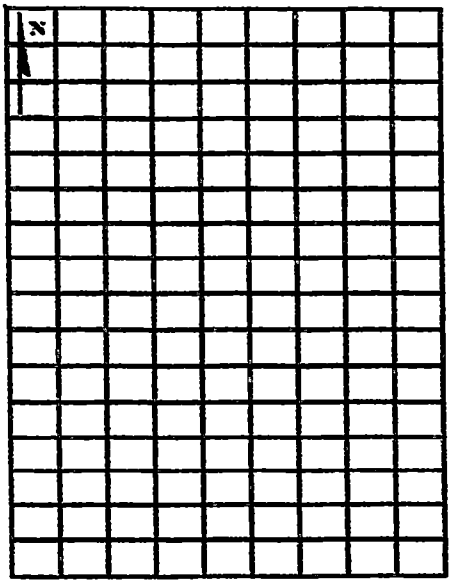
Estimated Cost = $

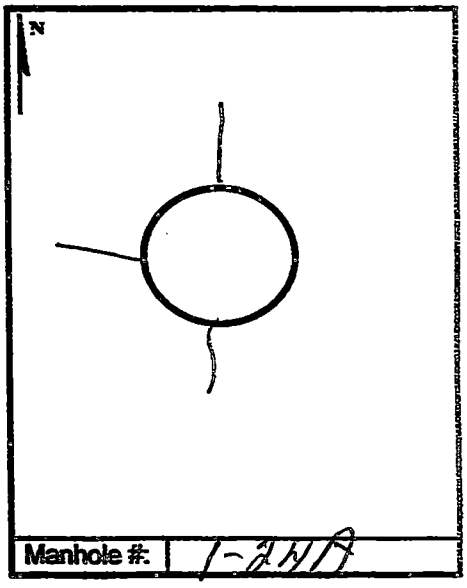
MANHOLE SURVEY

CITY OF:

Manhole No:	I-24A
Area:	
Crew:	
Date:	6/8/2016
Time:	2:18

MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	10'7"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
✓	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

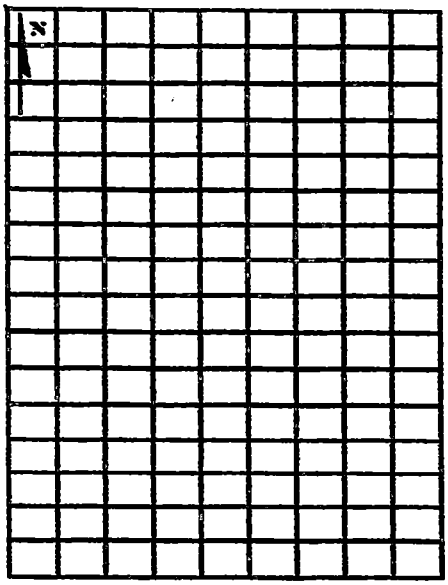
SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

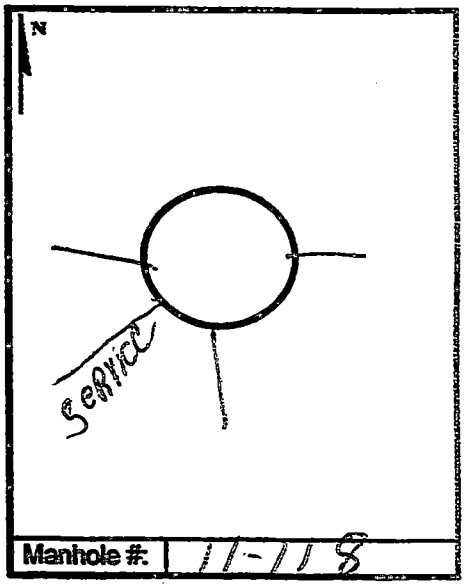
MANHOLE SURVEY

CITY OF:

Manhole No:	11-118
Area:	
Crew:	
Date:	6/9/2016
Time:	09:50

MANHOLE CONSTRUCTION	
✓	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	7'6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

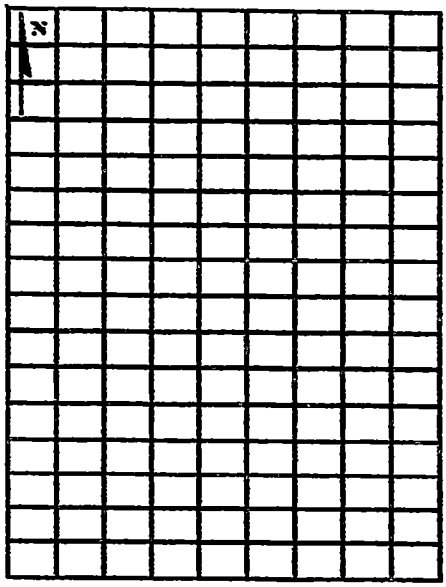
Estimated Cost = $

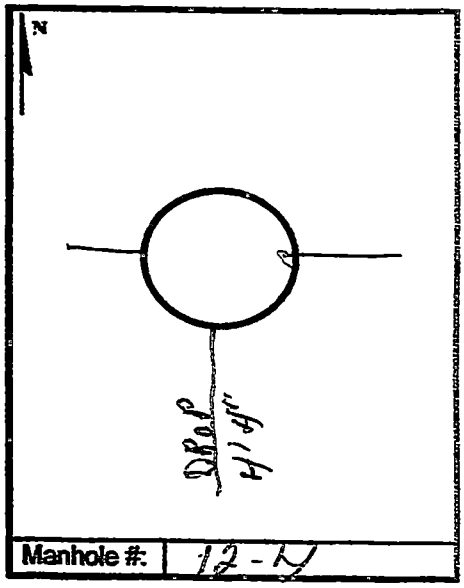
MANHOLE SURVEY

CITY OF:

Manhole No:	12-N
Area:	
Crew:	
Date:	8/9/2016
Time:	10:50

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	10' 9"					
Depth of Surchage						
~~Depth of Flow~~						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

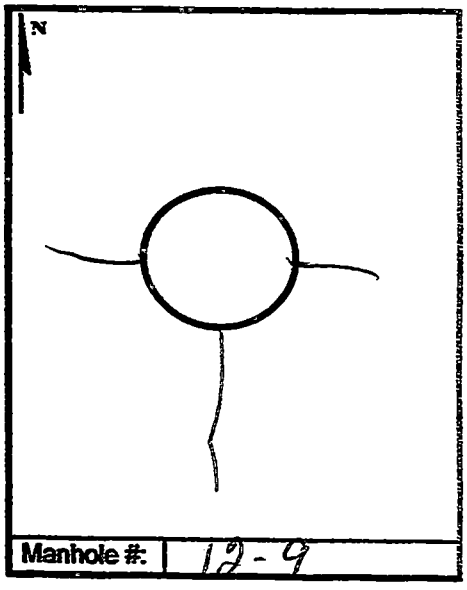
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	12-9
Area:	
Crew:	
Date:	8/9/2016
Time:	1:30

N



Manhole #: 12-9

MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		8				
Depth of Invert		6 | 9				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

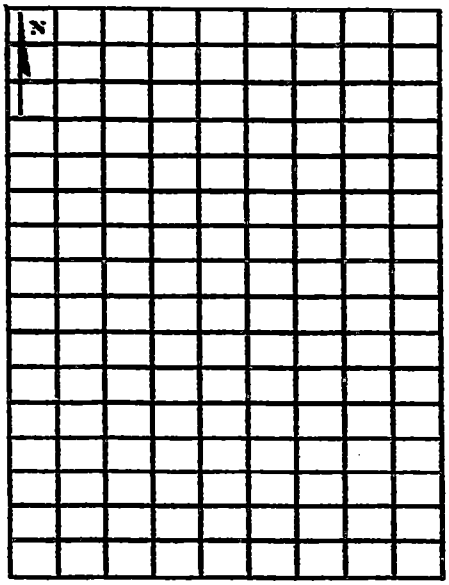
SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

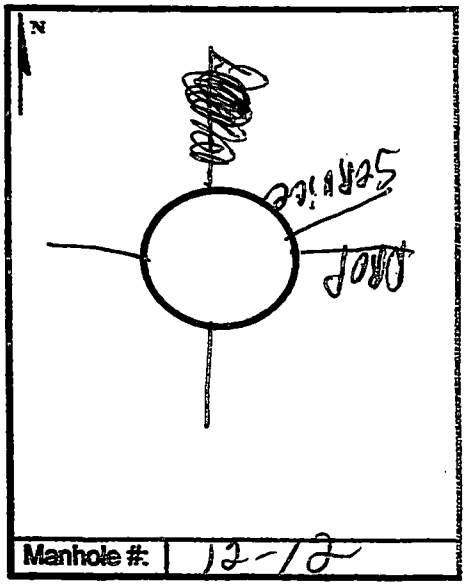
MANHOLE SURVEY

CITY OF:

Manhole No: 12-12
Area:
Crew:
Date: 12/9/2016
Time: 1:52

MANHOLE CONSTRUCTION	
✓	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 12-12

MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	6"					
Size	6					
Depth of Invert	1'0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

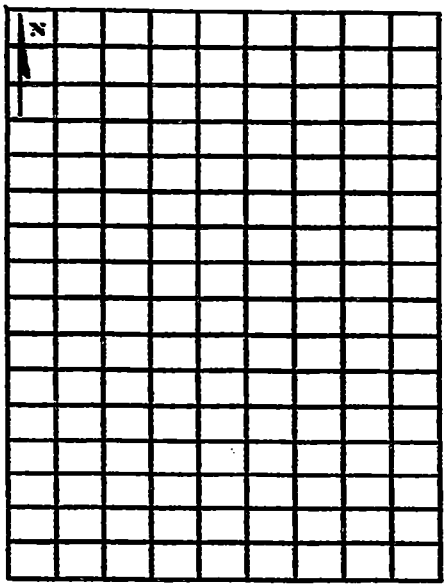
Estimated Cost = $

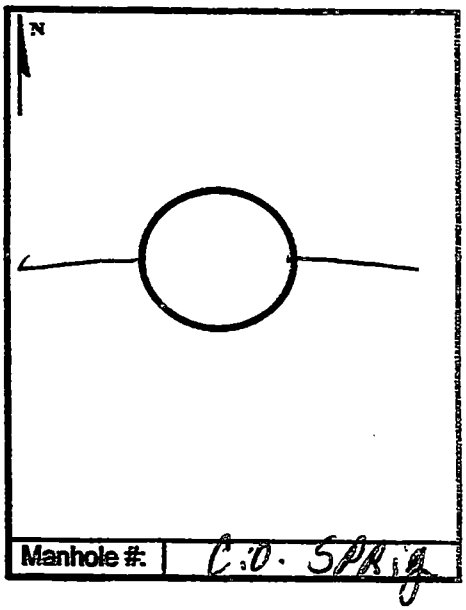
MANHOLE SURVEY

CITY OF:

Manhole No:	C.O.
Area:	SPR; 8
Crew:	
Date:	6/21/2016
Time:	9:10

MANHOLE CONSTRUCTION	
	Brick
	Block
✓	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size _____





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6"					
Depth of Invert	5'10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
✓	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

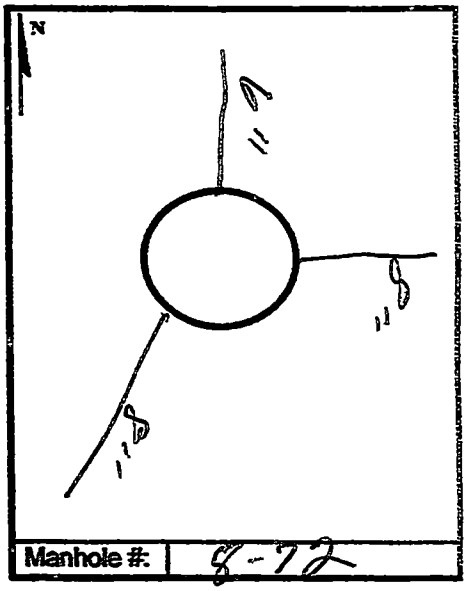
MANHOLE SURVEY

CITY OF:

Manhole No:	S-72
Area:	
Crew:	
Date:	6/21/2016
Time:	09:42

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

N



Manhole #: S-72

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"	6"				
Depth of Invert	5'6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
X	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

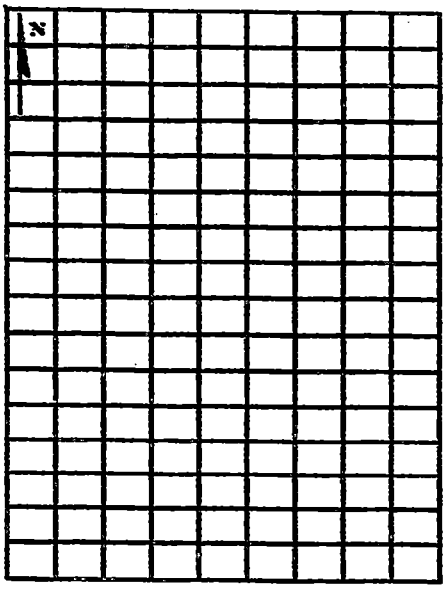
Estimated Cost = $

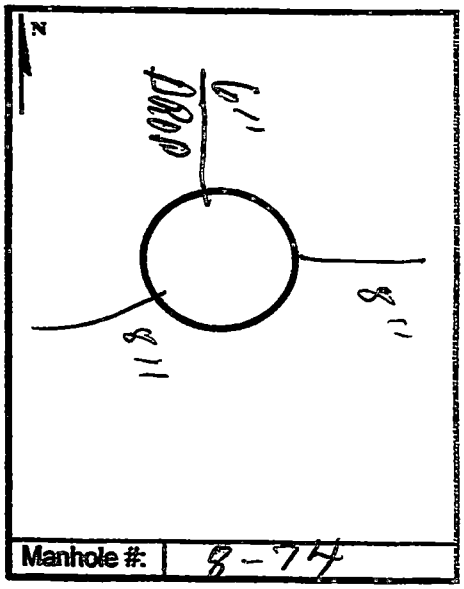
MANHOLE SURVEY

CITY OF:

Manhole No: S-74
Area: Mallard
Crew:
Date: 6/2/2016
Time: 10:11

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6" Proz		8"			
Depth of Invert	7'0"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

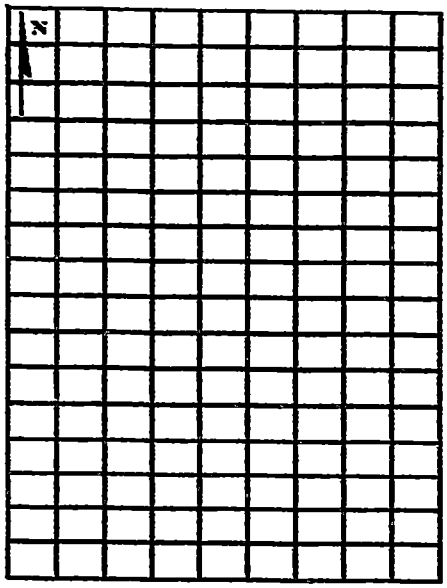
Estimated Cost = $

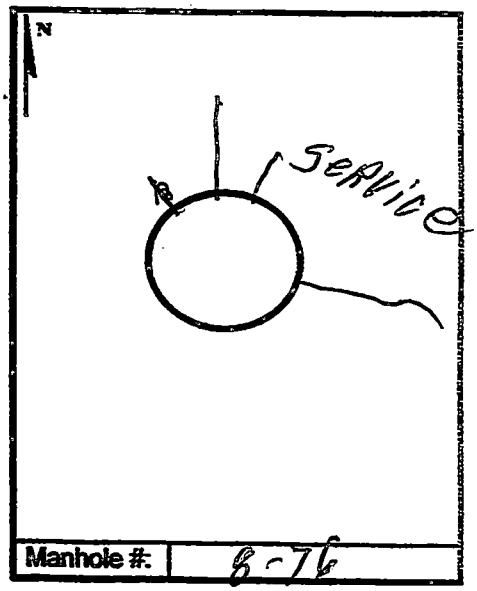
MANHOLE SURVEY

CITY OF:

Manhole No:	81-76
Area:	
Crew:	
Date:	8/21/2016
Time:	10:46

MANHOLE CONSTRUCTION	
✓	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 8-76

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		8"				
Depth of Invert		6'0"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
X	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

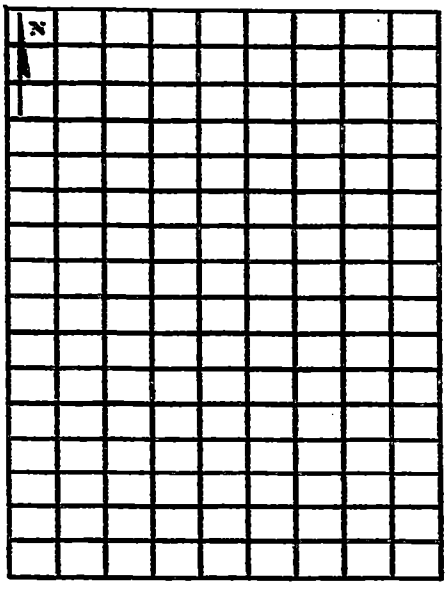
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

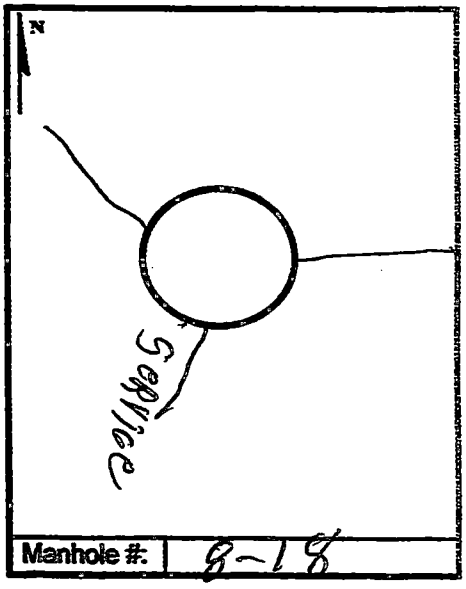
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 8-19
Area:
Crew:
Date: 6/27/2016
Time: 1:25





MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		12"				
Depth of Invert		3'10"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
	Asphalt Pavement
X	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

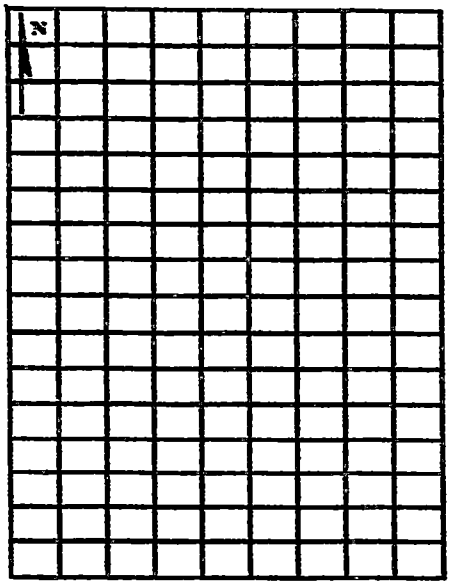
Estimated Cost = $

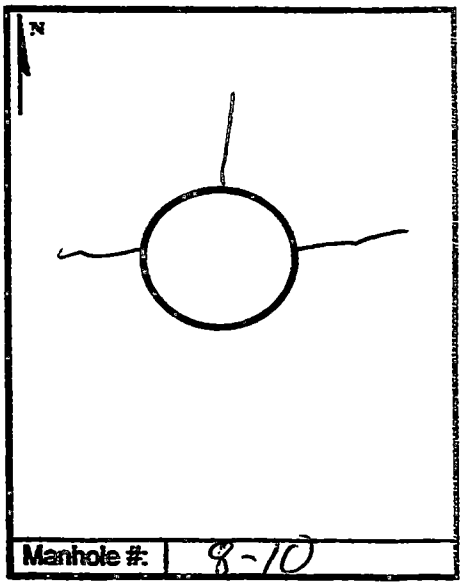
MANHOLE SURVEY

CITY OF:

Manhole No:	8-10
Area:	
Crew:	
Date:	6/21/2016
Time:	2:18

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	12"					
Depth of Invert	4'8"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
X	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

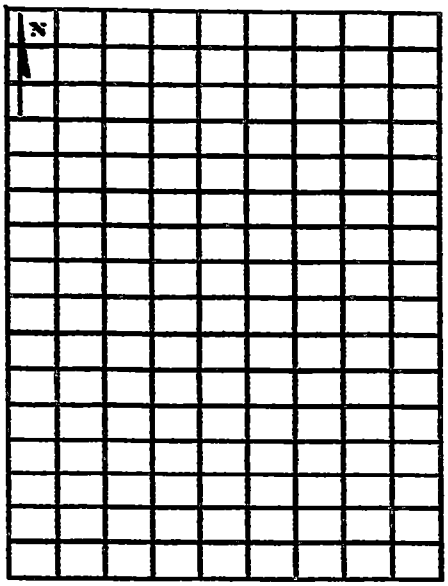
Estimated Cost = $

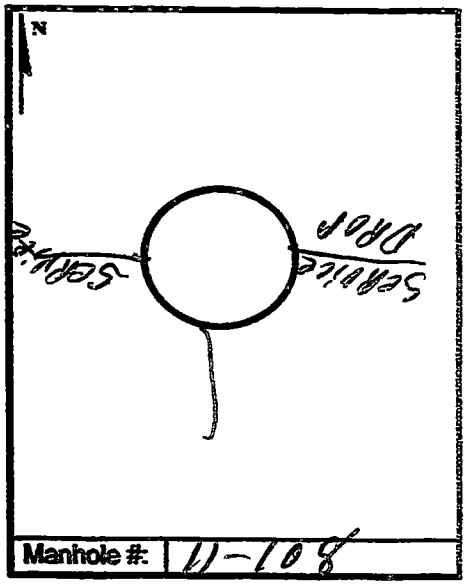
MANHOLE SURVEY

CITY OF:

Manhole No:	11-108
Area:	
Crew:	
Date:	6/23/2016
Time:	10:16

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	6'10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay (circled) C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
X	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

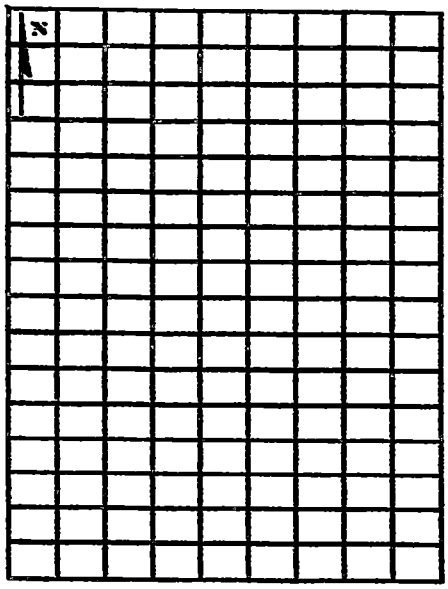
Estimated Cost = $

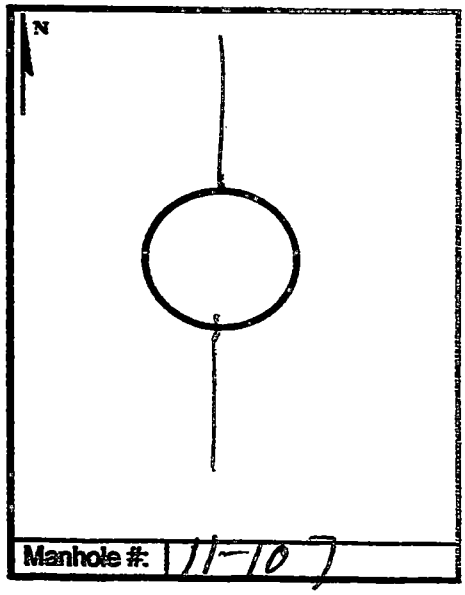
MANHOLE SURVEY

CITY OF:

Manhole No:	11-107
Area:	
Crew:	
Date:	10/23/2016
Time:	10:29

MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	6"					
Depth of Invert	7 1/4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

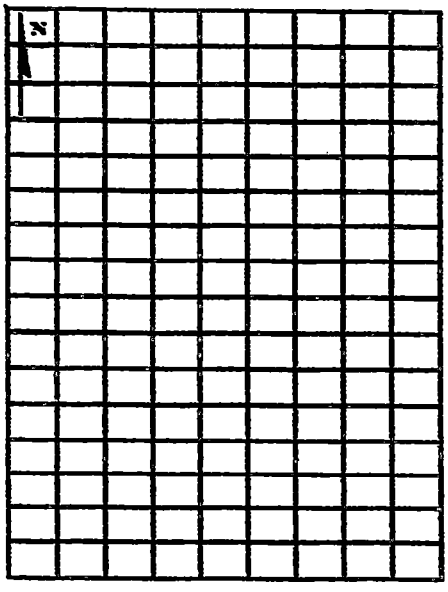
Estimated Cost = $

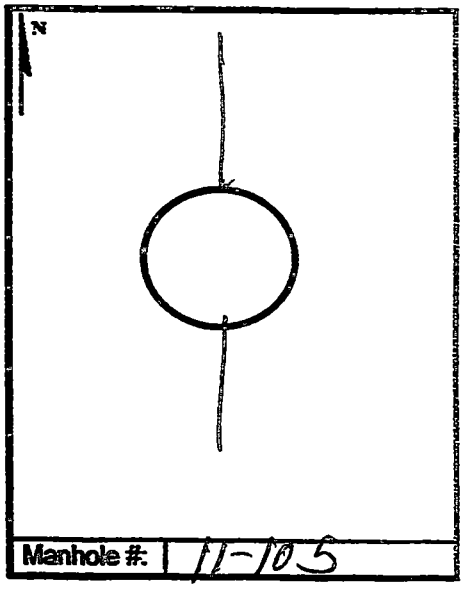
MANHOLE SURVEY

CITY OF:

Manhole No: 11-105
Area:
Crew:
Date: 6/23/2010
Time: 10:30

MANHOLE CONSTRUCTION	
X	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 11-105

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		6"				
Depth of Invert		6.15'				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

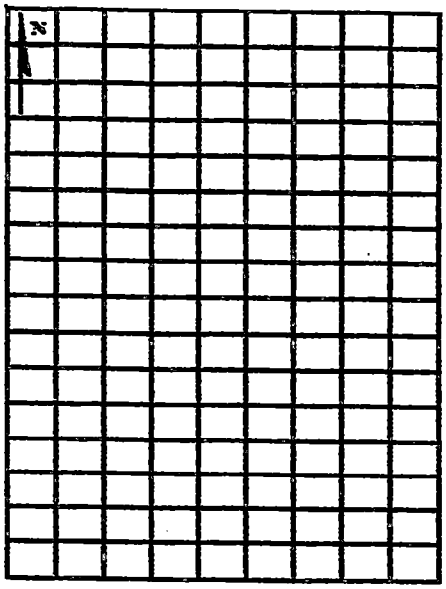
Estimated Cost = $

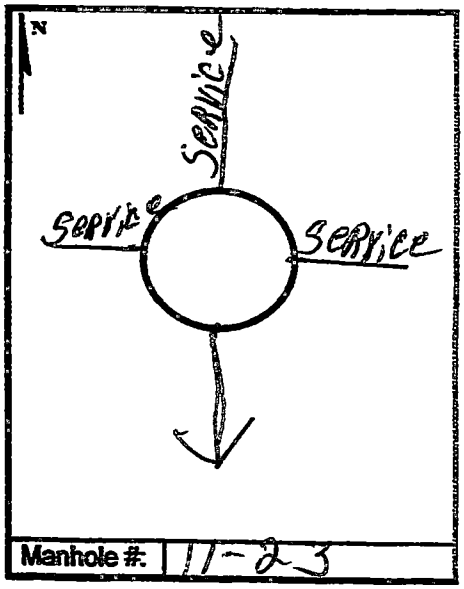
MANHOLE SURVEY

CITY OF:

Manhole No:	11-23
Area:	
Crew:	
Date:	6/23/2016
Time:	1:21

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size		8				
Depth of Invert		7 1/4				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

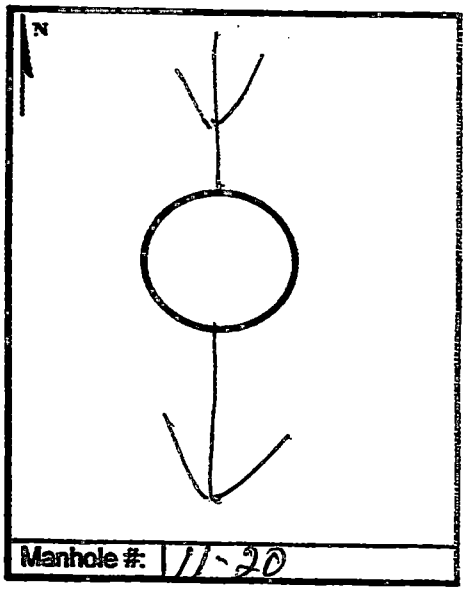
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 11-20
Area:
Crew:
Date: 6/23/2016
Time: 1:41

N



Manhole #: 11-20

MANHOLE CONSTRUCTION

- [x] Brick
- [ ] Block
- [ ] Concrete Poured
- [ ] Conrete Precast
- [ ] Fiberglass

Cover Size

MH CONDITION

- [ ] Good
- [x] Fair
- [ ] Poor
- [ ] Leaking

AREA COVER

- [ ] Concrete Pavement
- [x] Asphalt Pavement
- [ ] Gravel
- [ ] Sidewalk
- [ ] Soil
- [ ] Grass
- [ ] Trees

MH DEFECTS

- [ ] Line Cracks
- [ ] Circle Cracks
- [ ] Broken Walls
- [ ] Broken Pipe Entrance
- [ ] Broken Bottom
- [ ] Broken Frame
- [ ] Broken Cover
- [ ] Clogged with Debris
- [ ] Roots Present
- [ ] Visible Infiltration
- [ ] Visible Inflow

SOIL CONDITIONS

- [x] Dry
- [ ] Moist
- [ ] Wet
- [ ] Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert						
Depth of Surchage	4'6"					
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

- [ ] In Ditch
- [ ] In Pond Area
- [ ] In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

- [ ] High
- [ ] Medium
- [ ] Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	11-25
Area:	
Crew:	
Date:	6/23/2016
Time:	2:20

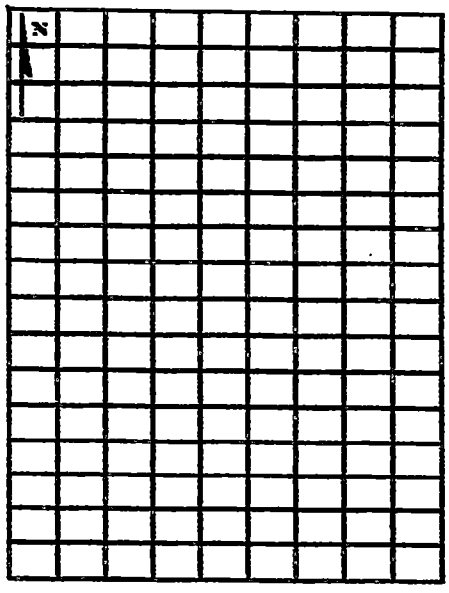
MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

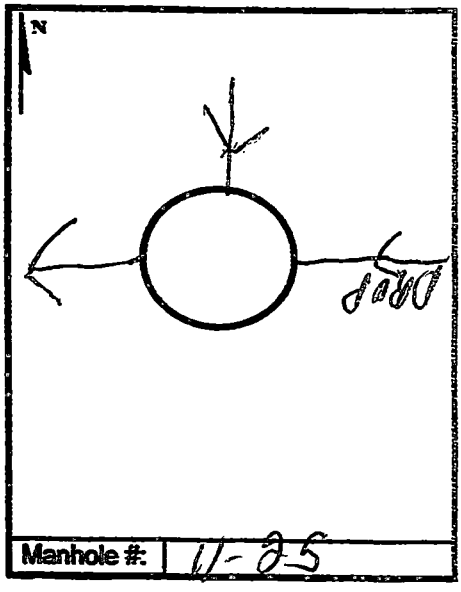
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
X	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	13'11"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

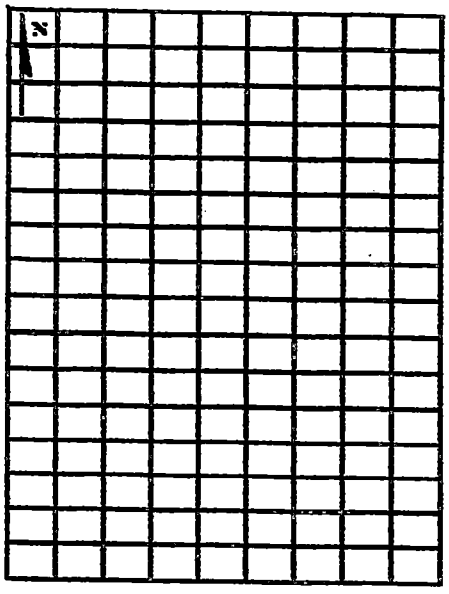
SUGGESTED REHAB:

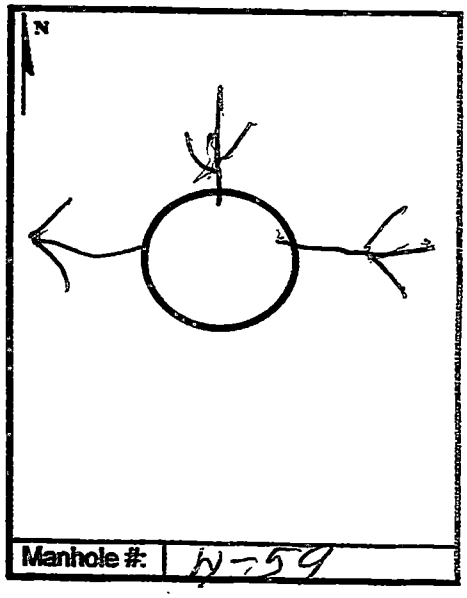
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: M-59
Area:
Crew:
Date: 6/27/2016
Time: 9:00





MANHOLE CONSTRUCTION
X Brick
Block
Concrete Poured
Conrete Precast
Fiberglass
Cover Size

MH CONDITION
Good
X Fair
Poor
Leaking

AREA COVER
Concrete Pavement
X Asphalt Pavement
Gravel
Sidewalk
Soil
Grass
Trees

MH DEFECTS
Line Cracks
Circle Cracks
Broken Walls
Broken Pipe Entrance
Broken Bottom
Broken Frame
Broken Cover
Clogged with Debris
Roots Present
X Visible Infiltration
X Visible Inflow

SOIL CONDITIONS
X Dry
Moist
Wet
Saturated

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size						
Depth of Invert		6-5"				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	M-25
Area:	
Crew:	
Date:	6/7/2016
Time:	9:56

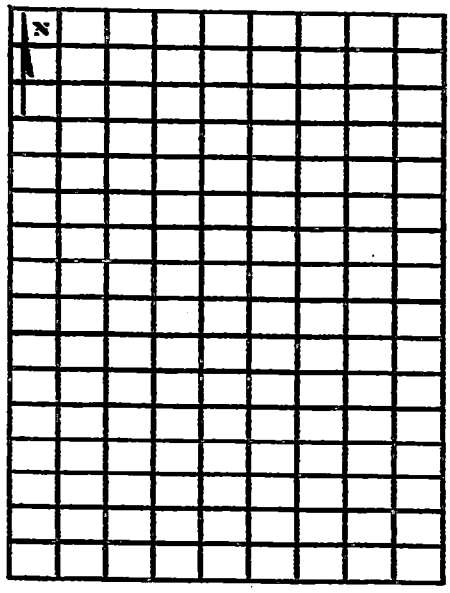
MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

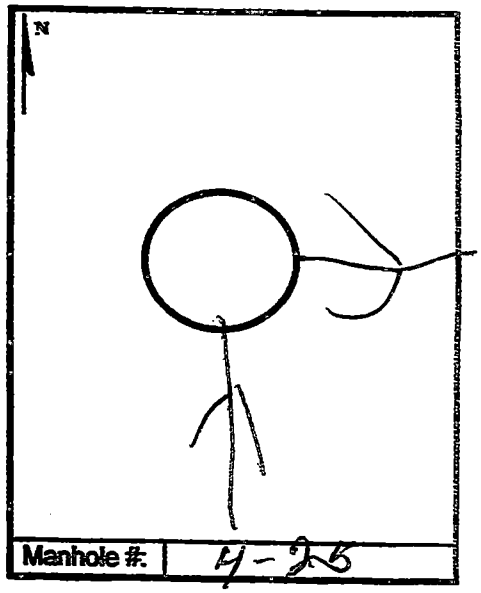
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





Manhole #: M-25

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8	12				
Depth of Invert	8					
Depth of Surchage	5"	11				
~~Depth of Flow~~						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

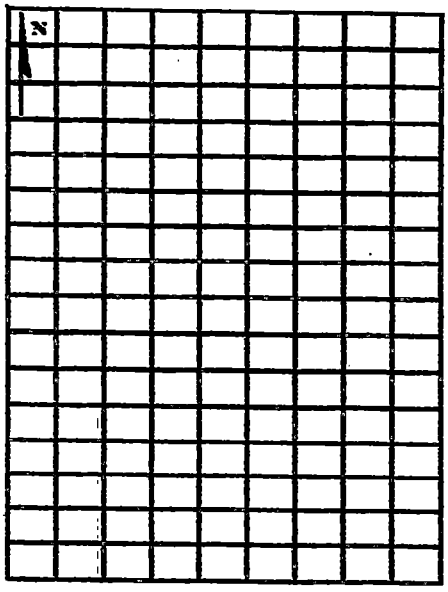
SUGGESTED REHAB:

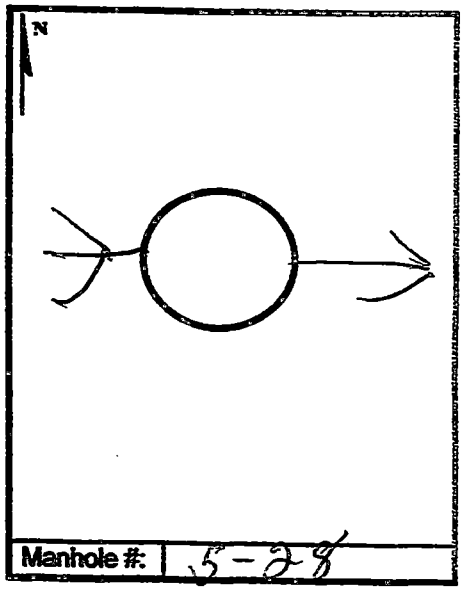
Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No: 5-28
Area:
Crew:
Date: 6/27/2016
Time: 1:10





MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8"					
Depth of Invert	5'11"					
Depth of Surchage						
Depth of Flow						

VC - Verified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
X	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

SUGGESTED REHAB:

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	S-27
Area:	
Crew:	
Date:	10/5/11 Sat
Time:	1:56

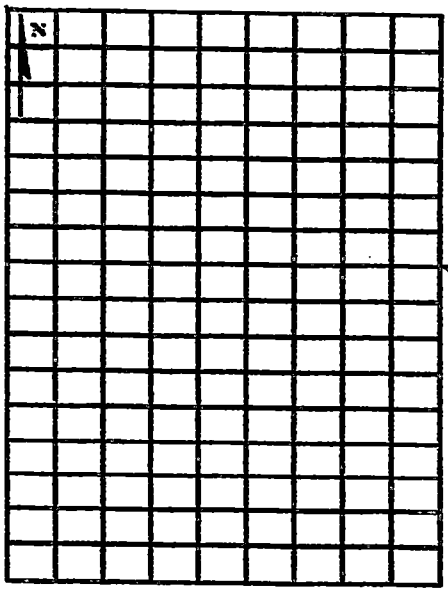
MANHOLE CONSTRUCTION	
	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

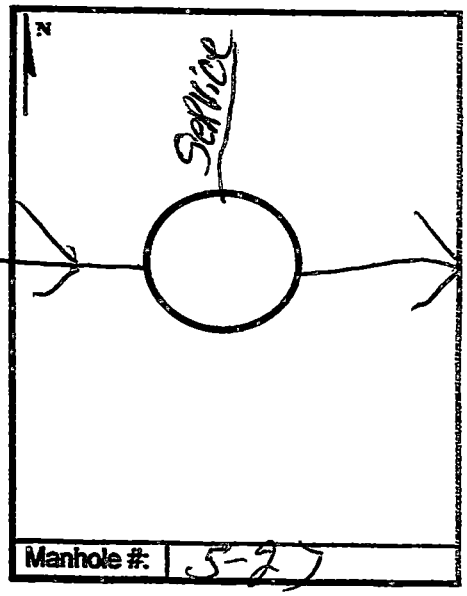
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
X	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	10 ft					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

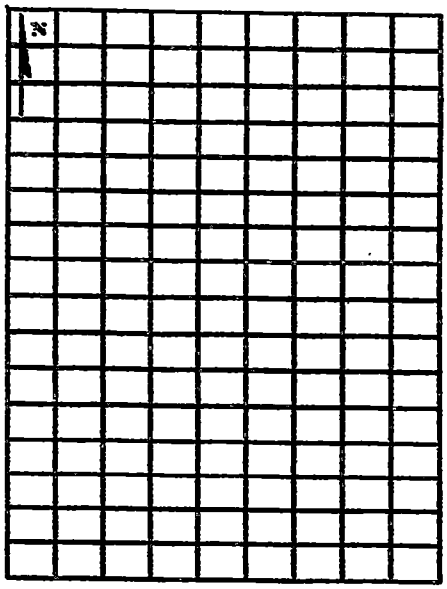
Estimated Cost = $

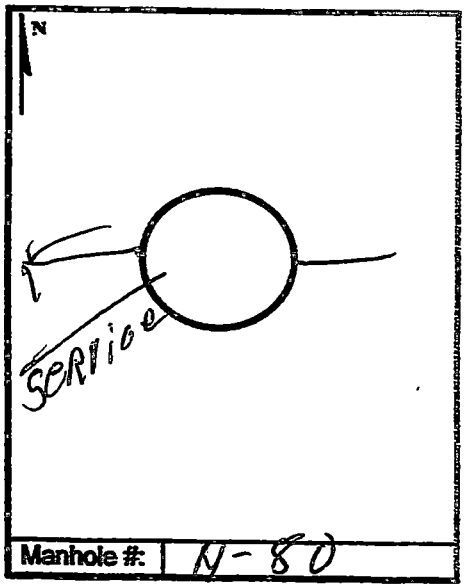
MANHOLE SURVEY

CITY OF:

Manhole No:	M-80
Area:	
Crew:	
Date:	10/27/2016
Time:	2:23

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8"					
Depth of Invert	6' 2"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	6-45
Area:	
Crew:	
Date:	6/28/2016
Time:	9:10

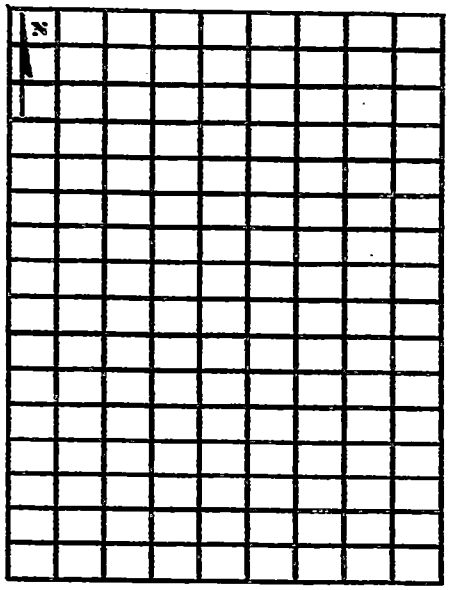
MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

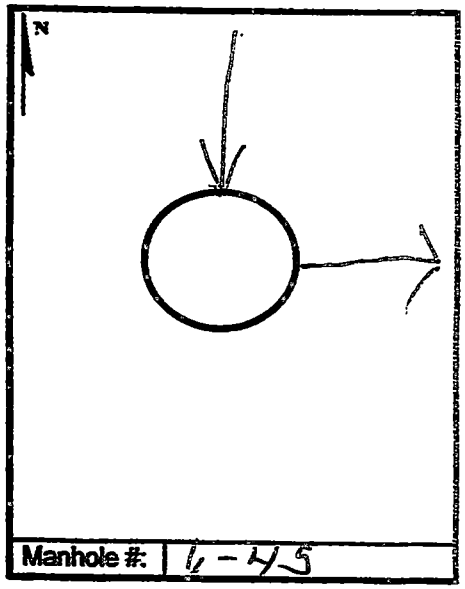
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





Manhole #: 6-45

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert	7'10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

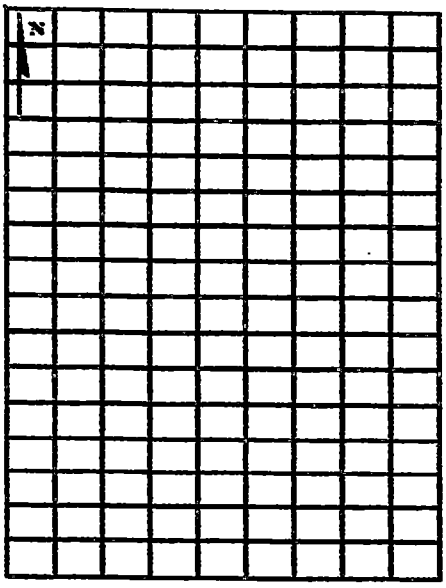
Estimated Cost = $

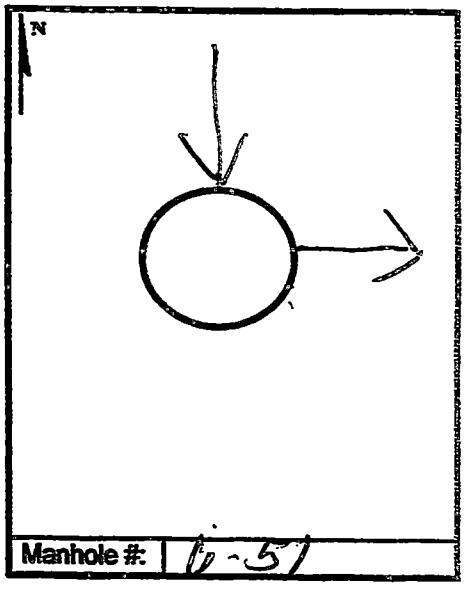
MANHOLE SURVEY

CITY OF:

Manhole No:	6-51
Area:	
Crew:	
Date:	12/28/2016
Time:	9:50

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8					
Depth of Invert	10'					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

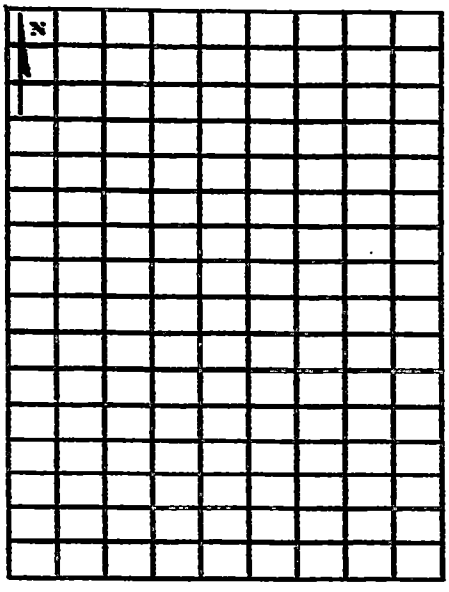
SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

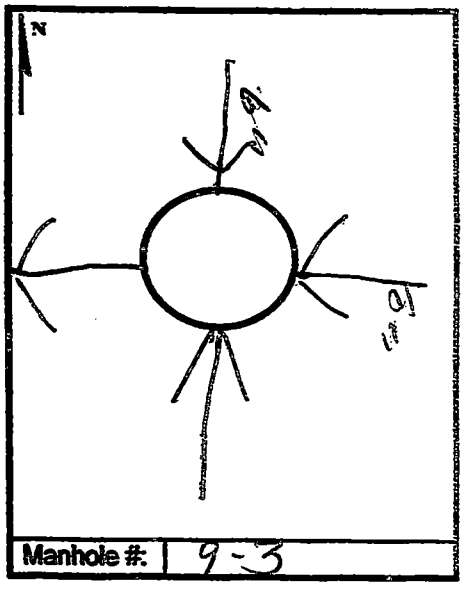
MANHOLE SURVEY

CITY OF:

Manhole No:	9-3
Area:	
Crew:	
Date:	6/28/2016
Time:	1:13

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	10"					
Depth of Invert	6' 10"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

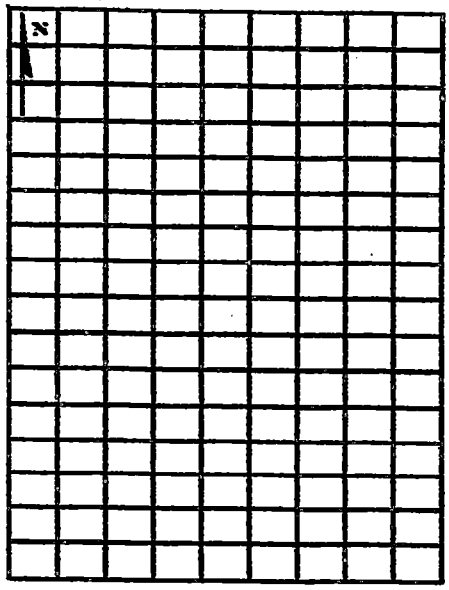
Estimated Cost = $

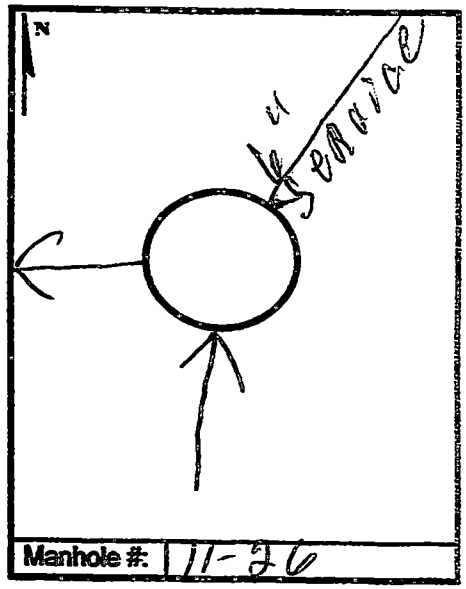
MANHOLE SURVEY

CITY OF:

Manhole No:	11-26
Area:	
Crew:	
Date:	10/28/2016
Time:	2:25

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material		8"				
Size						
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Verified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	7-9
Area:	
Crew:	
Date:	6/30/2016
Time:	

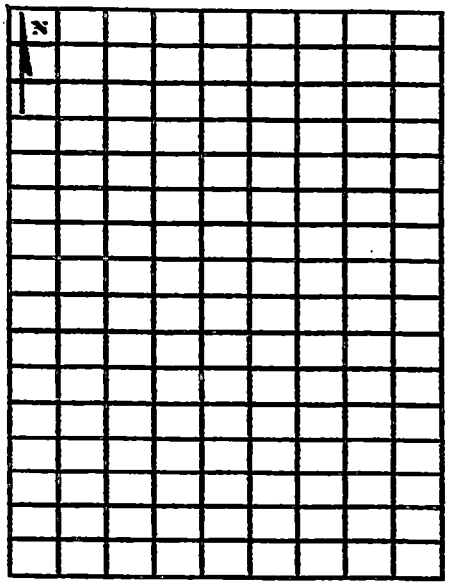
MANHOLE CONSTRUCTION	
	Brick
✓	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

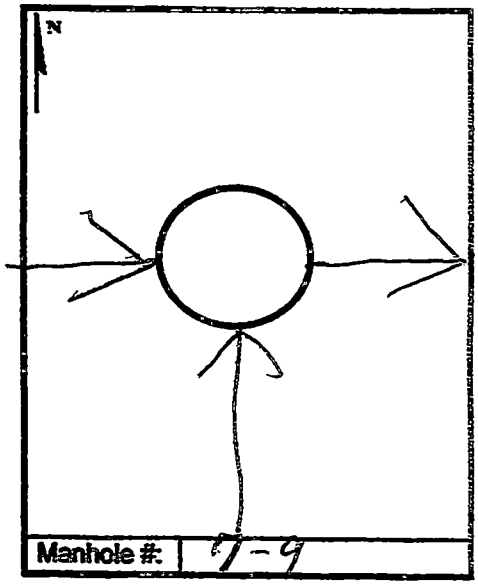
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8					
Depth of Invert	5' 6"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	7-38
Area:	
Crew:	
Date:	6/30/2016
Time:	10:24

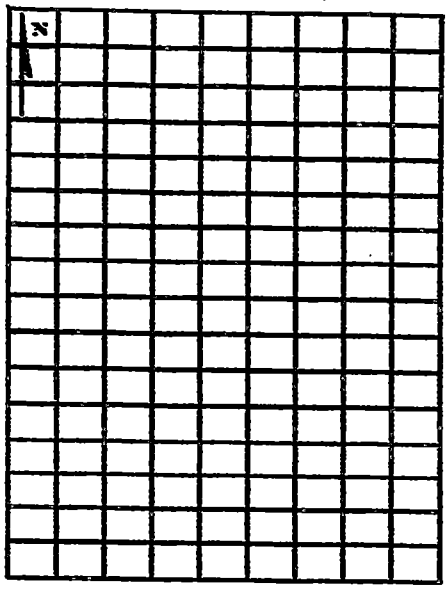
MANHOLE CONSTRUCTION	
	Brick
X	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

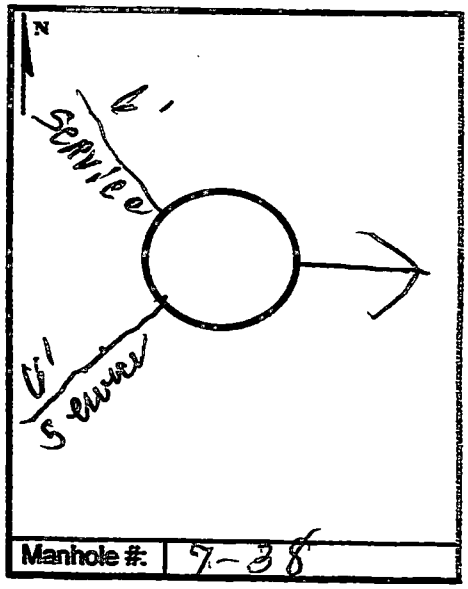
MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
X	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
✓	Dry
	Moist
	Wet
	Saturated





LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size	8					
Depth of Invert	5' 7"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

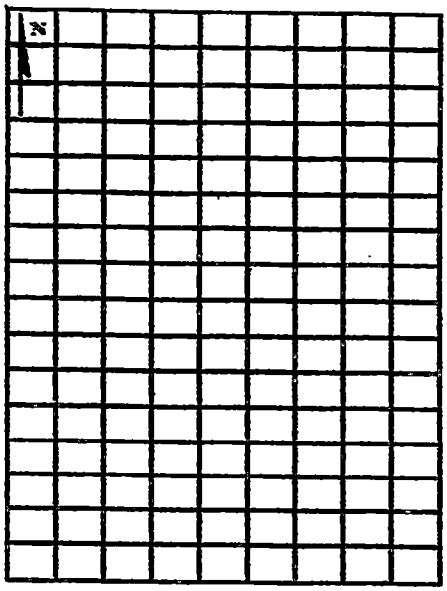
Estimated Cost = $

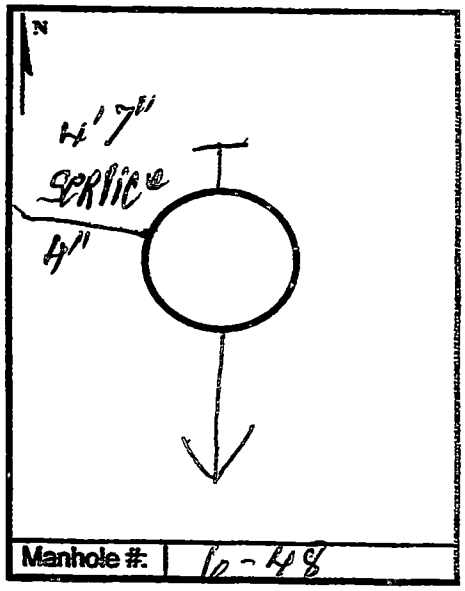
MANHOLE SURVEY

CITY OF:

Manhole No:	16-48
Area:	
Crew:	
Date:	6/30/2016
Time:	1:30

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8	21				
Size						
Depth of Invert	10	9				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
X	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

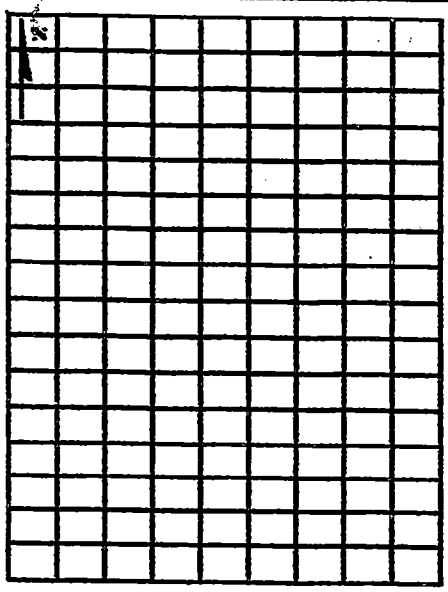
Estimated Cost = $

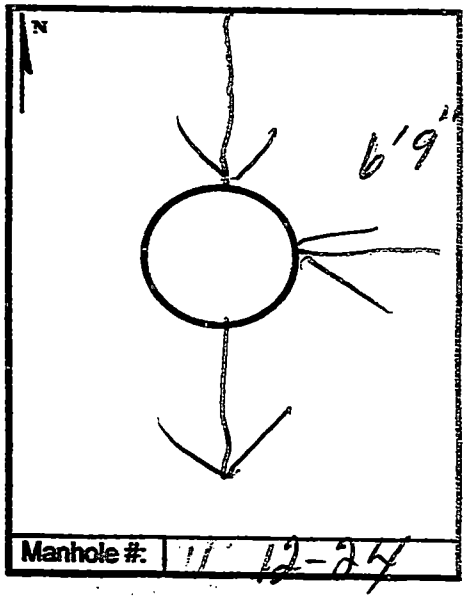
MANHOLE SURVEY

CITY OF:

Manhole No:	12-24
Area:	
Crew:	
Date:	7-5-2016
Time:	9:18

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"	4"				
Depth of Invert	6	4				
Depth of Surchage						
~~Depth of Flow~~						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	12-23
Area:	
Crew:	
Date:	7/5/2016
Time:	

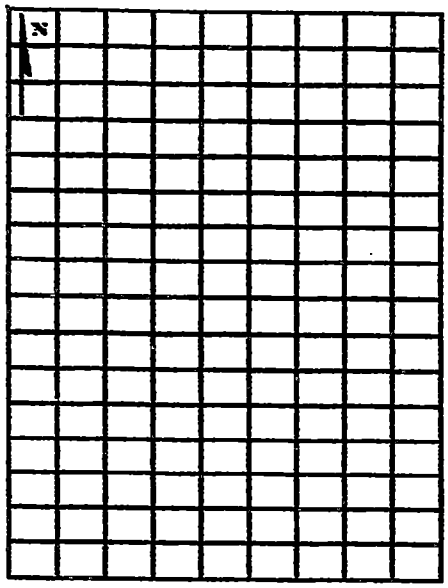
MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

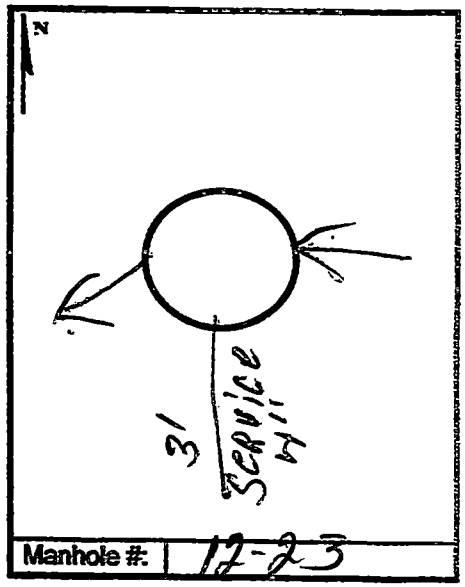
MH CONDITION	
	Good
✓	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
✓	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





Manhole #: 12-23

LINE CONDITIONS	A	B	C	D	E	F
Material	VC					
Size	8"					
Depth of Invert	5'4"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

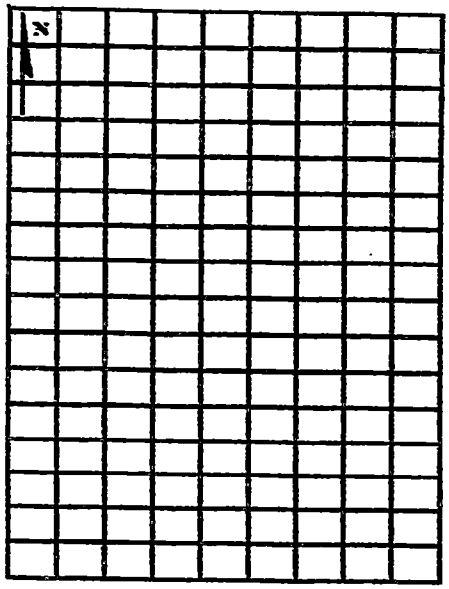
Estimated Cost = $

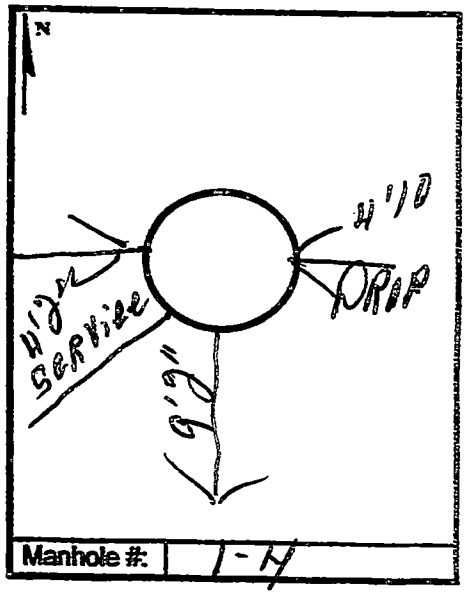
MANHOLE SURVEY

CITY OF:

Manhole No:	1-H
Area:	
Crew:	
Date:	7/5/2016
Time:	1025

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





Manhole #: 1-H

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8"					
Size						
Depth of Invert	9'2"					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
X	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

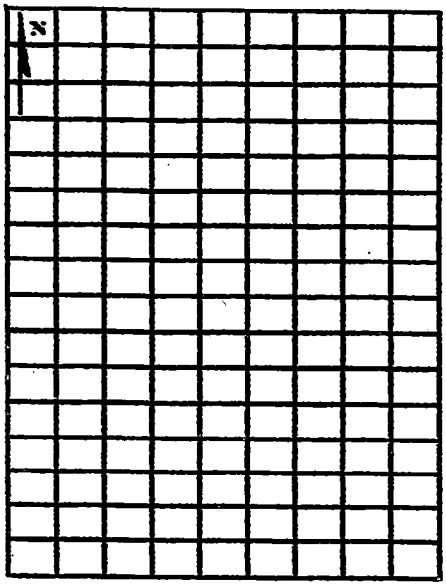
Estimated Cost = $

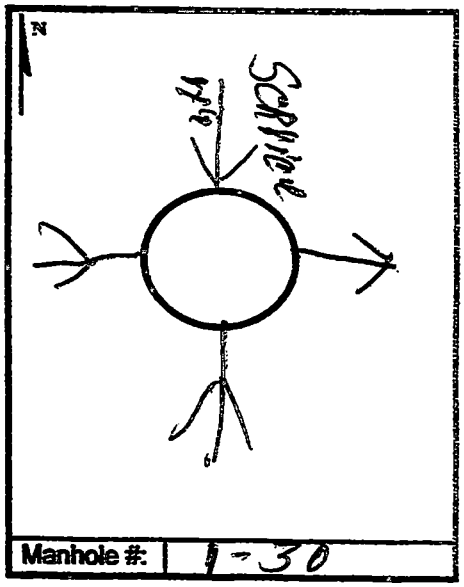
MANHOLE SURVEY

CITY OF:

Manhole No:	1-30
Area:	
Crew:	
Date:	7/5/2016
Time:	1:40

MANHOLE CONSTRUCTION	
	Brick
	Block
X	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
X	Good
	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material	8N					
Size	8-18"					
Depth of Invert	3'6					
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

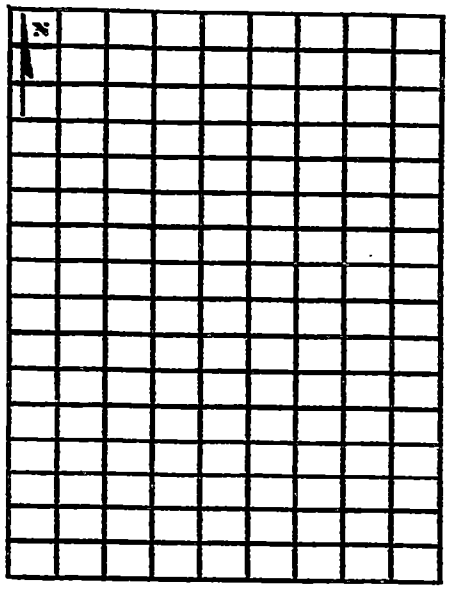
Estimated Cost = $

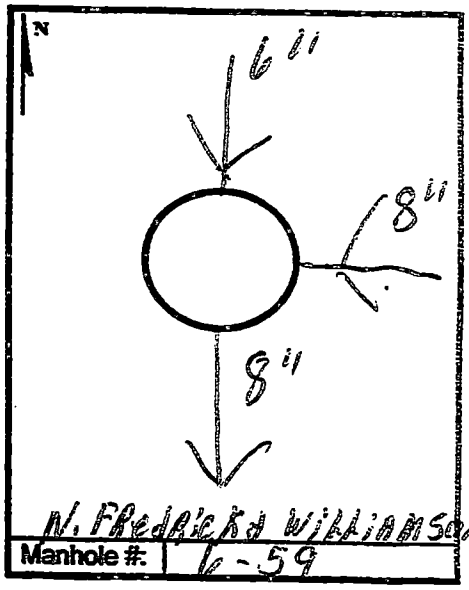
MANHOLE SURVEY

CITY OF:

Manhole No:	10-59
Area:	
Crew:	
Date:	7/13/2016
Time:	8:45

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size





MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	3"					
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

MANHOLE SURVEY

CITY OF:

Manhole No:	9-45
Area:	
Crew:	
Date:	7/13/2016
Time:	10:00

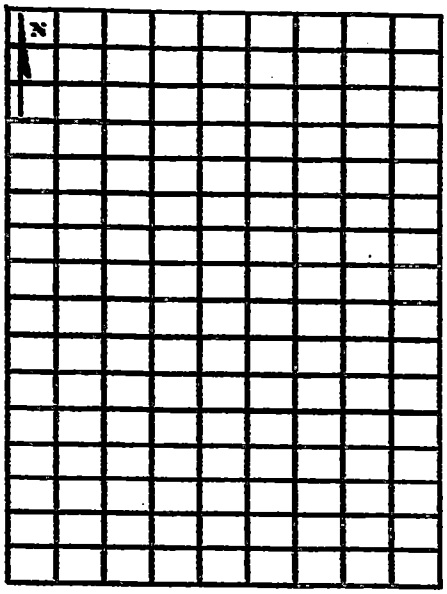
MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

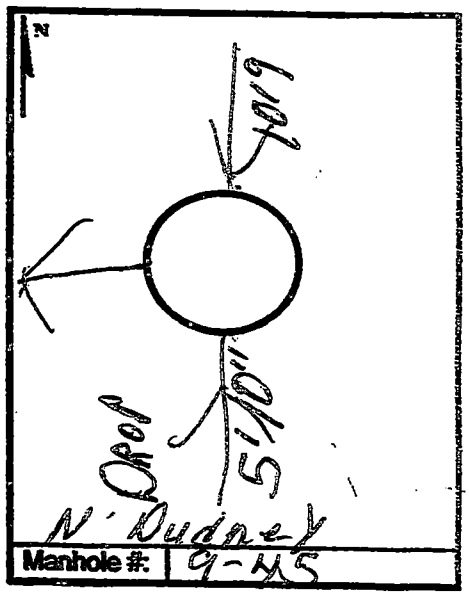
MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
	Broken Cover
	Clogged with Debris
	Roots Present
X	Visible Infiltration
	Visible Inflow

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated





LINE CONDITIONS	A	B	C	D	E	F
Material						
Size	8"					
Depth of Invert						
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

Potential For Inflow Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

Infiltration: Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

Estimated Cost = $

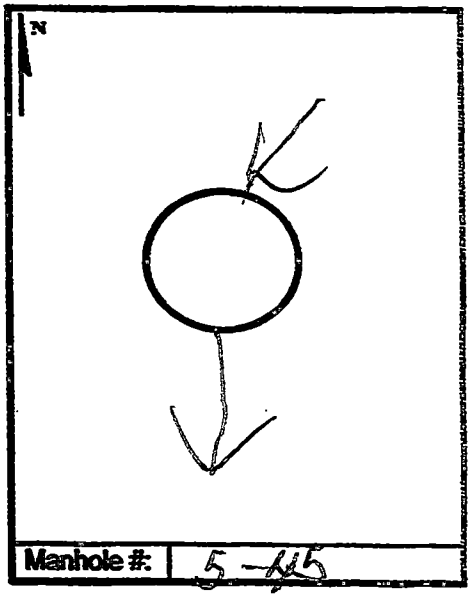
MANHOLE SURVEY

CITY OF:

Manhole No:	S-45
Area:	
Crew:	
Date:	
Time:	

MANHOLE CONSTRUCTION	
X	Brick
	Block
	Concrete Poured
	Conrete Precast
	Fiberglass
	Cover Size

N



Manhole #: S-45

MH CONDITION	
	Good
X	Fair
	Poor
	Leaking

LINE CONDITIONS	A	B	C	D	E	F
Material		Cll				
Size		8				
Depth of Invert		5'				
Depth of Surchage						
Depth of Flow						

VC - Vertified Clay C - Concrete PVC - Polyvinyl Chloride
CI - Cast Iron AC - Asbestos Cement

AREA COVER	
	Concrete Pavement
X	Asphalt Pavement
	Gravel
	Sidewalk
	Soil
	Grass
	Trees

Potential For Inflow	Drainage Area =

	In Ditch
	In Pond Area
	In Flood Area

Cover Opening	1	2	3	4
Possible Head				
Size				

MH DEFECTS	
	Line Cracks
	Circle Cracks
	Broken Walls
	Broken Pipe Entrance
	Broken Bottom
	Broken Frame
X	Broken Cover
	Slogged with Debris
	Roots Present
	Visible Infiltration
	Visible Inflow

Infiltration:	Estimated Rate (GPM) =

	High
	Medium
	Low

LEAK DESCRIPTION

SUGGESTED REHAB:

SOIL CONDITIONS	
X	Dry
	Moist
	Wet
	Saturated

Estimated Cost = $

Thumb Drive SCANNED IN
SEPARATE FILE

ADEQ
5301 NORTHSHORE DR
NORTH LITTLE ROCK AR 72118-5317
P:BOX3
S:3MR
SHOR-2868
9115
MAR 08 02:29:23 2017
518

A L FRANKS ENGINEERING
(870) 216-1906
ANDY FRANKS
118 EAST BROAD ST
TEXARKANA AR 71854

2 LBS
SHP WT: 2 LBS
DATE: 07 MAR 2017

1 OF 1

SHIP TO: ENFORCEMENT ANALYST
ADEQ
5301 NORTHSHORE DR

NORTH LITTLE RO AR 72118-5328

AR 722 9-21

UPS GROUND
TRACKING #: 1Z A55 40F 03 7039 9115

BILLING: P/P

ISH 13.00N ZZP 450 84.5U 01/2017

Express Pak