

AGENDA

Addison-Dryden Intercounty Drain Drainage Board Lapeer and Oakland Counties

1:00 p.m., Thursday, July 21, 2022

Brandon Township Library
304 South Street
Ortonville, MI 48462

1. Call meeting to order

Board Members:

Mike Gregg, Chair, Michigan Department of Agriculture & Rural Development

Joseph Suma, Lapeer County Drain Commissioner

James Nash, Oakland County Water Resources Commissioner

2. Approval of the meeting agenda for July 21, 2022
3. Approval of the Drainage District Board Meeting Minutes from November 30, 2016
4. Public Comment
5. Present Memorandum from Geoff S. Wilson, P.E., Assistant Chief Engineer and Ed Thick, Drain Maintenance Supervisor, dated July 21, 2022, requesting the Board to authorize the Oakland County Water Resources Commissioner to conduct a drain inspection and perform necessary maintenance, as limited by the Michigan Drain Code, for 2023 and approve an assessment of \$10,000 for 2023.
6. Other Business
7. Adjourn

Agenda Item No. 3

Board Meeting Minutes from
November 30, 2016

Minutes of the Meeting
of the Intercounty Drain Drainage Board for the
Addison-Dryden Drain

November 30, 2016

A meeting of the Intercounty Drainage Board for the Addison-Dryden Drain was held at the office of the Lapeer County Court Complex, County Court House, 225 Clay Street, Lapeer, Michigan on November 30, 2016. The meeting was called to order by the Chairman at 2:21 p.m.

Board Members Present: Michael Gregg, Chairperson
Michigan Department of Agriculture and Rural Development

Joseph Suma, Member
Lapeer County Drain Commissioner

Steven Korth, Member
Office of the Oakland County Water Resources Commissioner

Also Present: Joel Kohn, Oakland County
Michael McMahon, Oakland County
Jacklyn Thomas, Oakland County

Motion by Mr. Suma, supported by Mr. Korth, to have Oakland County serve as Secretary.

Adopted: Yeas – 2
Nays – 0

Motion by Mr. Suma, supported by Mr. Korth, to approve the November 30, 2016 agenda.

Adopted: Yeas – 2
Nays – 0

Motion by Mr. Suma, supported by Mr. Korth, to approve the minutes from the March 23, 2016 meeting.

Adopted: Yeas – 2
Nays – 0

Mr. McMahon presented the trial balance as of November 23, 2016 showing a deficit fund balance of \$4,640.08.

Motion by Mr. Korth, supported by Mr. Suma, to receive and file the November 23, 2016 trial balance as presented.

Adopted: Yeas – 2
Nays – 0

Joel Kohn, Engineering Systems Coordinator, presented a Memorandum dated November 30, 2016 with results from the November 7, 2016 visual drain inspection performed by the Oakland County maintenance staff. According to the report, there were multiple locations where fallen trees and debris were blocking the flow of the drain along with a beaver dam.

It was recommended that the Board authorize the Oakland County drain maintenance staff to perform maintenance on the drain to remove trees, debris and beaver dams with expenditures not exceeding the annual assessment amount set by the Michigan Drain Code, which is \$5,000 per mile of drain for maintenance. Per the final order of determination dated March 26, 1904, the length of the drain is 83.5 chains or 5,511 feet. It was also recommended that the Intercounty drainage board approve the original apportionment between counties dated May 10, 1904. The determined percentage for Oakland County is 76% and Lapeer County is 24%. Mr. Kohn added the total maintenance costs are estimated at \$7,000.

Motion by Mr. Korth, supported by Mr. Suma, to authorize Oakland County drain maintenance staff to perform the recommended maintenance as presented and to approve the apportionment dated May 10, 1904 showing Oakland County is 76% and Lapeer County is 24%.

Adopted: Yeas – 2
 Nays – 0

Chairperson Gregg recommended that one county provide the 7-day notice for the tree removal. Mr. Korth said Oakland County could provide the notice for both counties.

Chairperson Gregg recommended a resolution regarding the authorized public agency status for soil erosion be adopted.

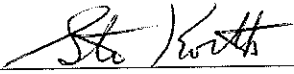
Motion by Mr. Korth, supported by Mr. Suma, to adopt the resolution regarding the authorized public agency status for soil erosion.

Adopted: Yeas – 2
 Nays – 0

Mr. Suma requested Mr. Kohn to provide maps of the drain in the Addison and Oxford areas that affect Lapeer County.

Motion by Mr. Suma, supported by Mr. Korth, to adjourn at 3:15 p.m.

Adopted: Yeas – 2
 Nays – 0

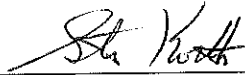


Steven Korth, Member
Addison-Dryden Intercounty Drain Board

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Addison-Dryden Intercounty Drain, Oakland County, Michigan, held on the 30th day of November, 2016, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner.



Steven Korth, Member
Addison-Dryden Intercounty Drain Board

Dated: December 9, 2016

Run By: 13073
 Run: 11/23/2016 at 11:06 AM
 Scope: 25359 Addison Dryden Ch 5 Drain

YTD Trial Balance
Fund: 25359 Addison Dryden Ch 5 Drain
As of Fiscal Period: Month 2, 2017

ACCOUNT		Fiscal Year BEG BAL	Current FY Net Activity	ENDING BAL
100100	Cash - Operating	(2,885.15)	(754.72)	(3,639.87)
104100	Accrued Interest on Investment	(0.55)	0.34	(0.21)
228100	Deposits	(1,000.00)	0.00	(1,000.00)
	Revenues	0.00	4.98	4.98
	Expenditures	0.00	749.40	749.40
	Special Items- Uses	0.00	0.00	0.00
381350	FB Restricted Programs	3,885.70	0.00	3,885.70
		0.00	0.00	0.00

11/23/16

Fund Balance

\$ 4,640.08

Deficit

COUNTY LINE CH 4 DRAIN

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Thru 06/30/16
Excess Rev/(Exp) Balance per Drain Annual Report	\$ (1,524.28)	\$ 582.66	\$ 2,174.42	\$ 461.19	\$ 26.31	\$ (9,870.58)	\$ (186.01)	\$ (23,685.42)	\$ (4,677.70)	\$ (2,561.41)	\$ (2,000.35)	\$ (811.22)	\$ (687.78)	\$ (437.05)	\$ (715.18)	\$ (281.52)	\$ (781.16)	\$ (321.03)	\$ (253.40)
REVENUES																			
Other Revenue (Transfers In)	8,905.54	4,963.50	6,202.00	-	-	1,360.52	-	-	-	-	-	-	-	-	-	-	-	-	-
Income from Investments	-	401.52	840.42	461.19	26.31	33.83	14.94	(28.89)	(1,095.90)	(1,530.10)	(1,531.15)	(811.22)	(455.54)	(366.31)	(241.82)	(281.52)	(537.13)	(321.03)	(253.40)
TOTAL REVENUES	8,905.54	5,365.02	7,042.42	461.19	26.31	1,394.35	14.94	(28.89)	(1,095.90)	(1,530.10)	(1,531.15)	(811.22)	(455.54)	(366.31)	(241.82)	(281.52)	(537.13)	(321.03)	(253.40)
EXPENDITURES																			
Salaries - Regular	1,135.18	41.16	-	-	-	70.47	132.04	5,610.36	2,185.07	592.63	281.82	-	130.59	49.07	-	-	-	-	-
Fringe Benefits	820.06	15.75	-	-	-	24.35	57.90	2,495.60	1,080.42	302.08	187.38	-	68.95	16.37	-	-	-	-	-
Contractual Services	8,392.75	4,725.45	4,868.00	-	-	11,167.50	-	15,117.16	139.01	-	-	-	-	-	-	-	-	-	-
Commodities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Internal Services (Drain Equip)	81.83	-	-	-	-	2.61	11.01	433.41	177.30	136.60	-	-	32.70	5.30	473.36	-	244.03	-	-
TOTAL EXPENDITURES	10,429.82	4,782.36	4,868.00	-	-	11,264.93	200.95	23,656.53	3,581.80	1,031.31	469.20	-	232.24	70.74	473.36	-	244.03	-	-
Excess Rev/(Exp) Balance	(1,524.28)	582.66	2,174.42	461.19	26.31	(9,870.58)	(186.01)	(23,685.42)	(4,677.70)	(2,561.41)	(2,000.35)	(811.22)	(687.78)	(437.05)	(715.18)	(281.52)	(781.16)	(321.03)	(253.40)
FUND BALANCE	\$(1,537.28)	\$(954.62)	\$1,219.80	\$1,680.99	\$1,707.30	\$(8,163.28)	\$(8,349.29)	\$(32,034.71)	\$(36,712.41)	\$(39,273.82)	\$(41,274.17)	\$(42,085.39)	\$(42,773.17)	\$(43,210.22)	\$(43,925.40)	\$(44,206.92)	\$(44,988.08)	\$(45,309.11)	\$(45,562.51)

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Addison Dryden Inter-County Drainage Board

FROM: Joel Kohn, Engineering Systems Coordinator

SUBJECT: Oakland County Water Resources Maintenance Recommendation

DATE: November 30, 2016

On November 7, 2016 drain maintenance staff visually inspected the Addison Dryden Inter-County Drain. Per the attached report it was noted there are multiple spots in which fallen trees and debris are blocking flow of the drain, this also includes a beaver dam.

It is staff recommendation that the inter-county drainage board authorizes Oakland County Water Resources to perform maintenance on the drain to remove trees, debris and beaver dams with expenditures not exceeding the annual assessment amount set by the Michigan Drain Code, which is \$5,000 per mile of drain for maintenance. Per the final order of determination dated March 26, 1904 the length of the drain is 83.5 chains or 5,511 feet.

It is also staff recommendation that the inter-county drainage board approve the original apportionment of tax between counties dated May 10, 1904. The determined percent for each county is Oakland County 76 percent and Lapeer County 24 percent.

Total Maintenance costs are estimated at \$7,000.

Storm Structure Inspection Sheets

7

Nov 07, 2016

Up MapSheet ID: DRT136001

Up Const#: DRT136001

GPS Captured

Dw MapSheet ID: ADT009003

Dw Const#:

Street # 5757 Street Rochester Rd

Lot #

Subdivision N/A

Downstream Pipe Shape: Open Trench

Drain Addison Dryden

Downstream Pipe Size: In.

Invert: N/A Ft. Number Steps:

Adjusting Material Height: Ft.

Mh. Depth: Ft. Number of Bolts:

In. Downstream Pipe Length: 1720 Ft.

Mh. Diameter: Ft. Cover Diameter:

Catch Basin Connections

Traffic Control

Yes

No

Composition

- Asphalt
- Concrete
- Gravel
- Sod
- Grass Seed
- Unfinished

Section Abandoned

This Structure is an End Section

Location in Lot

- Front
- Back
- Side
- Not in Lot

Surface

- Roadway
- Drive Way
- Sidewalk
- Road Shoulder
- Ditch
- Lawn
- Field/Woods
- Undefined

Good Condition:

Needs Repair:

Crew

Inspection

Repair

Cross Roads: Bordman + Rochester

Date: 11-9-16

Crew Names:

MARK McCARTHY

Cody Wakeford

Inspection Area:

DRT136001 - ADT009003

Conditions: (Give details, take photos & measurements if needed)

SWAMP AND vegetation is Heavy

Recommendations:

Good Condition

Equipment:

JOHN P. McCULLOCH
OAKLAND COUNTY DRAIN COMMISSONER

Storm Structure Inspection Sheets

7

Nov 07, 2016

Up MapSheet ID: ADT009003

Up Const#: ADT009003

GPS Captured

Dw MapSheet ID: ADT009002

Dw Const#:

Street # 5757 Street Rochester Rd Lot #

Subdivision N/A Downstream Pipe Shape: Circle

Drain Addison Dryden Downstream Pipe Size: 48 In.

Invert: N/A Ft. Number Steps: —

Mh. Depth: — Ft. Number of Bolts: — Adjusting Material Height: — Ft.

Mh. Diameter: — Ft. Cover Diameter: — In. Downstream Pipe Length: 20 Ft.

Catch Basin Connections: — Yes No

Frame

- East Jordan
- Neehan
- Unknown

Frame Type

- Plain
- Bolt-down
- Other

Cover Type

- Plain
- Bolt-down
- Other

Composition

- Asphalt
- Concrete
- Gravel
- Sod
- Grass Seed
- Unfinished

Surface

- Roadway
- Drive Way
- Sidewalk
- Road Shoulder
- Ditch
- Lawn
- Field/Woods
- Undefined

Location in Lot

- Front
- Back
- Side
- Not in Lot

Manhole Construction

- Poured in Place
- PreCast Concret
- Block
- Brick
- Combo Brick/Block

Adjusting Material

- Concrete Rings
- Block Work
- Brick
- None

Crew

- Inspection
- Repair

Structure Comments: CUT Trees From AROUND INLET

ATMOSPHERIC TESTS

Date: 11-09-16 02

SERIAL NUMBER# : 913070253 PID: B
 LEL/Comb/H2 (%) : 0 OXY/O2 (%) : 20.9
 CO (ppm) : 0 H2S (ppm) : 0

[Signature]
Employee Signature

- Manhole Needs Work**
- E1 [] Manhole Leaks
 - E2 [] Illegal Connection-Sump Pump or Drainage
 - E4 [] Root Intrusions
 - E5 [] Chemicals or Oils Evident
 - E6 [] Deteriorated Adjusting Material
 - E7 [] Needs Brick Repairs
 - E8 [] Lead Needs Pointing
 - D1 [] Could Not Locate
 - D2 [] Manhole Buried, Needs Raising
 - D3 [] Loose Manhole Frame
 - D4 [] Broken Concrete Adjusting Rings
 - D5 [] Manhole Missing Steps
 - D6 [] Spillway Needs Repair
 - D7 [] Cracked or Wrong Size Manhole Cover
 - D8 [] Manhole Pre-cast Section Cracked
 - D9 [] Manhole Needs Lowering
 - D0 [] Replace Frame/Lid or Adjusting Material
 - DA [] Needs Repair
- (Write in repair comments):

Last Reading	Le1	CO	O2	H2S	PID
	-1	-1	-1	-1	-2

This Structure is an End Section

Type of Structure

- Storm Manhole
- Drop Manhole
- Inlet
- Outlet
- Catch Basin
- Detention Pond
- Retention Pond
- Diversion Chamber
- Junction Chamber

- Downstream Line Condition**
- L1 [] Downstream Line OK - Best that can be determined
 - L2 [] Line Joints Need Repair
 - L3 [] Settlement in Pipe, Line OK
 - L4 [] Settlement in Pipe, Needs Attention
 - A [] Manhole in Good Condition
 - C [] Manhole/CB Needs Cleaning
 - R [] Needs Surface Restoration without Soil Erosion Measur
 - S [] Needs Surface Restoration with Soil Erosion Measures
 - X [] Unsafe Atmosphere
 - Z [] Manhole Abandoned

CUT Trees From AROUND INLET

JOHN P. McCULLOCH
 OAKLAND COUNTY DRAIN COMMISSIONER

Friday, January 03, 2014

Storm Structure Inspection Sheet

Township ADT Sheet 009 Manhole ADT009002 GPS Captured Downstream Manhole: ADT009001

Street # 5757 Street ROCHESTER RD.

Subdivision N/A Lot Number _____

Drain ADDISON - DYDEN DRAIN

Invert: N/A Ft. Number Steps: —

Mh. Depth: — Ft. Number of Bolts: —

Mh. Diameter: — Ft. Cover Diameter: —

Adjusting Material Height: —

Downstream Pipe Size: 8" RCP

Downstream Pipe Length: 814 Ft.

In. Catch Basin Connections: —

Traffic Control

Yes

No

Frame

East Jordan

Neehan

Unknown

Frame Type

Plain

Boltdown

Other

Cover Type

Plain

Boltdown

Other

Composition

Asphalt

Concrete

Gravel

Sod

Grass Seed

Unfinished

Surface

Roadway

Drive Way

Sidewalk

Road Shoulder

Ditch

Lawn

Field/Woods

Undefined

Location in Lot

Front

Back

Side

Not in Lot

Manhole Construction

Poured in Place

PreCast Concrete

Block

Brick

Combo Brick/Block

Adjusting Material

Concrete Rings

Block Work

Brick

None

Crew

Inspection

Repair

Hazard Accessment Permit #:

Manhole Comments: THIS IS A 48" RCP OUTLET

ATMOSPHERIC TESTS

SERIAL NUMBER# : 915078253 PID: 0

LEL/Comb/H2 (%) : 0 OXY/O2 (%) : 20.9

CO (ppm): 0 H2S (ppm): 0

Date: 11-9-10
Mark MGA
Employee Signature

Manhole Needs Work

- E1 [] Manhole Leaks
- E2 [] Illegal Connection-Sump Pump or Drainage
- E4 [] Root Intrusions
- E5 [] Chemicals or Oils Evident
- E6 [] Deteriorated Adjustment Material
- E7 [] Needs Brick Repairs
- E8 [] Lead Needs Pointing
- D1 [] Could Not Locate
- D2 [] Manhole Buried, Needs Raising
- D3 [] Loose Manhole Frame
- D4 [] Broken Concrete Adjusting Rings
- D5 [] Manhole Missing Steps
- D6 [] Spillway Needs Repair
- D7 [] Cracked or Wrong Size Manhole Cover
- D8 [] Manhole Pre-cast Section Cracked
- D9 [] Manhole Needs Lowering
- D0 [] Replace Frame/Lid or Adjusting Material
- DA [X] Needs Repair

(Write in Repair Comment Below)

CUT BRUSH AROUND OUTLET

This Structure is an End Section

Type of Structure

Storm Manhole Outlet Retention Pond

Drop Manhole Catch Basin Ordinary Manhol

Inlet Detention Pond Combo CB-MH

Headwall No End Treatment

Downstream Line Condition

- L1 [] Downstream Line OK - Best that can be determined
- L2 [] Line Joints Need Repair
- L3 [] Settlement in Pipe, Line OK
- L4 [] Settlement in Pipe, Needs Attention
- A [] Manhole in Good Condition
- C [] Manhole/CB Needs Cleaning
- R [] Needs Surface Restoration with no Soil Erosion Measu
- S [] Needs Surface Restoration with Soil Erosion Measures
- X [] Unsafe Atmosphere
- Z [] Manhole Abandoned

Problems:

Storm Structure Inspection Sheets

8

Nov 07, 2016

Up MapSheet ID: ADT009002

Up Const#: ADT009002

GPS Captured

Dw MapSheet ID: ADT009001

Dw Const#:

Street # 5757 Street Rochester Rd Lot # _____

Subdivision N/A Downstream Pipe Shape: Open Trench
Drain Addison Dryden Downstream Pipe Size: _____ In.

Invert: N/A Ft. Number Steps: _____
Mh. Depth: _____ Ft. Number of Bolts: _____
Mh. Diameter: _____ Ft. Cover Diameter: _____
Adjusting Material Height: _____ Ft.
In. Downstream Pipe Length: 825 Ft.
Catch Basin Connections: _____

Traffic Control
 Yes
 No

Composition
 Asphalt Sod
 Concrete Grass Seed
 Gravel Unfinished

Location in Lot
 Front
 Back
 Side
 Not in Lot

Surface
 Roadway Ditch
 Drive Way Lawn
 Sidewalk Field/Woods
 Road Shoulder Undefined

Good Condition:
Needs Repair:
Crew
 Inspection
 Repair

Section Abandoned
 This Structure is an End Section

Cross Roads: Rochester + Boardman

Date: 11-9-16 Crew Names: MARK McARTHY
Cody Wakeford
Crew Leader Signature

Inspection Area: ADT009002 - ADT009001

Conditions: (Give details, take photos & measurements if needed)
4'-6' BANKS
15'-20' wide
NO EROSION

Recommendations: 2 crews 6 HRS
Cut From ADT009002 South to Swamp

Equipment: Robber Boots
CHAINSAW PPE

Storm Structure Inspection Sheets

7

Nov 07, 2016

Up MapSheet ID: ADT009001

Up Const#: ADT009001

GPS Captured

Dw MapSheet ID: ADT006003

Dw Const#:

Street # 7757 Street Rochester Rd

Lot #

Subdivision N/A

Drain Addison Dryden

Downstream Pipe Shape: Rectangle

Downstream Pipe Width: 43 In.

Downstream Pipe Height: 64 In.

Adjusting Material Height: — Ft.

In. Downstream Pipe Length: 50 Ft.

Catch Basin Connections: —

Invert: — Ft. Number Steps: —
Mh. Depth: — Ft. Number of Bolts: —
Mh. Diameter: — Ft. Cover Diameter: —

Traffic Control

Yes
 No

Frame

East Jordan
 Neehan
 Unknown

Frame Type

Plain
 Bolt-down
 Other

Cover Type

Plain
 Bolt-down
 Other

Composition

Asphalt
 Concrete
 Gravel
 Sod
 Grass Seed
 Unfinished

Surface

Roadway
 Drive Way
 Sidewalk
 Road Shoulder
 Ditch
 Lawn
 Field/Woods
 Undefined

Location in Lot

Front
 Back
 Side
 Not in Lot

Manhole Construction

Poured in Place
 PreCast Concret
 Block
 Brick
 Combo Brick/Block

Adjusting Material

Concrete Rings
 Block Work
 Brick
 None

Crew

Inspection
 Repair

Structure NEW DATA - PLEASE VERIFY ACCURACY
Comments:

ATMOSPHERIC TESTS Date: 11-9-16 02

SERIAL NUMBER# : 913076253 PID: 0
LEL/Comb/Hc (%): 0 OXY/O2 (%): 20.9
CO (ppm): 0 H2S (ppm): 0

Mark M...
Employee Signature

- Manhole Needs Work**
- E1 [] Manhole Leaks
 - E2 [] Illegal Connection-Sump Pump or Drainage
 - E4 [] Root Intrusions
 - E5 [] Chemicals or Oils Evident
 - E6 [] Deteriorated Adjusting Material
 - E7 [] Needs Brick Repairs
 - E8 [] Lead Needs Pointing
 - D1 [] Could Not Locate
 - D2 [] Manhole Buried, Needs Raising
 - D3 [] Loose Manhole Frame
 - D4 [] Broken Concrete Adjusting Rings
 - D5 [] Manhole Missing Steps
 - D6 [] Spillway Needs Repair
 - D7 [] Cracked or Wrong Size Manhole Cover
 - D8 [] Manhole Pre-cast Section Cracked
 - D9 [] Manhole Needs Lowering
 - D0 [] Replace Frame/Lid or Adjusting Material
 - DA [] Needs Repair
- (Write in repair comments):

This Structure is an End Section

Type of Structure

Storm Manhole Outlet Retention Pond
 Drop Manhole Catch Basin Diversion Chamber
 Inlet Detention Pond Junction Chamber

Downstream Line Condition

L1 [] Downstream Line OK - Best that can be determined
L2 [] Line Joints Need Repair
L3 [] Settlement in Pipe, Line OK
L4 [] Settlement in Pipe, Needs Attention
A [] Manhole in Good Condition
C [] Manhole/CB Needs Cleaning
R [] Needs Surface Restoration without Soil Erosion Measur
S [] Needs Surface Restoration with Soil Erosion Measures
X [] Unsafe Atmosphere
Z [] Manhole Abandoned

*Inlet is under water,
Crossing pipe is brand new*

JOHN P. McCULLOCH
OAKLAND COUNTY DRAIN COMMISSONER

Page 3 of 4 02/20/07

Friday, January 03, 2014

Storm Structure Inspection Sheet

Township ADJ Sheet 006 Manhole ADT006003 GPS Captured Downstream Manhole: ADT006002

Street # 5650 Street Rochester Rd

Subdivision N/A Lot Number _____

Drain Addison-Dryden Drain

Invert: _____ Ft. Number Steps: _____

Mh. Depth: _____ Ft. Number of Bolts: _____

Mh. Diameter: _____ Ft. Cover Diameter: _____

Adjusting Material Height: _____

Downstream Pipe Size: Open Ditch

Downstream Pipe Length: 2478 Ft.

In. Catch Basin Connections: _____

Traffic Control

Yes
 No

Frame

East Jordan
 Nechan
 Unknown

Frame Type

Plain
 Bolt-down
 Other

Cover Type

Plain
 Bolt-down
 Other

Composition

Asphalt
 Concrete
 Gravel
 Sod
 Grass Seed
 Unfinished

Surface

Roadway
 Drive Way
 Sidewalk
 Road Shoulder
 Ditch
 Lawn
 Field/Woods
 Undefined

Location in Lot

Front
 Back
 Side
 Not in Lot

Manhole Construction

Poured in Place
 PreCast Concrete
 Block
 Brick
 Combo Brick/Block

Adjusting Material

Concrete Rings
 Block Work
 Brick
 None

Crew

Inspection
 Repair

Hazard Assessment Permit #:

Manhole Comments: outlet is under water
crossing is new

ATMOSPHERIC TESTS

SERIAL NUMBER# : 913070253 PID: 0
LEL/Comb/HC (%): 0 OXY/O2 (%): 20.9
CO (ppm): 0 H2S (ppm): 0

Date: 11-9-16

[Signature]
Employee Signature

Manhole Needs Work

- E1[] Manhole Leaks
- E2[] Illegal Connection-Sump Pump or Drainage
- E4[] Root Intrusions
- E5[] Chemicals or Oils Evident
- E6[] Deteriorated Adjustment Material
- E7[] Needs Brick Repairs
- E8[] Lead Needs Pointing
- D1[] Could Not Locate
- D2[] Manhole Buried, Needs Raising
- D3[] Loose Manhole Frame
- D4[] Broken Concrete Adjusting Rings
- D5[] Manhole Missing Steps
- D6[] Spillway Needs Repair
- D7[] Cracked or Wrong Size Manhole Cover
- D8[] Manhole Pre-cast Section Cracked
- D9[] Manhole Needs Lowering
- D0[] Replace Frame/Lid or Adjusting Material
- DA[] Needs Repair

(Write in Repair Comment Below)

outlet is under water
crossing is new

This Structure is an End Section

Type of Structure

Storm Manhole Outlet Retention Pond
 Drop Manhole Catch Basin Ordinary Manhol
 Inlet Detention Pond Combo CB-MH
 Headwall No End Treatment

Downstream Line Condition

- L1 [] Downstream Line OK - Best that can be determined
- L2 [] Line Joints Need Repair
- L3 [] Settlement in Pipe, Line OK
- L4 [] Settlement in Pipe, Needs Attention
- A Manhole in Good Condition
- C [] Manhole/CB Needs Cleaning
- R [] Needs Surface Restoration with no Soil Erosion Measu
- S [] Needs Surface Restoration with Soil Erosion Measures
- X [] Unsafe Atmosphere
- Z [] Manhole Abandoned

Problems:

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSONER

Storm Structure Inspection Sheets

8

Nov 07, 2016

Up MapSheet ID: ADT006003

Up Const#: ADT006003

GPS Captured

Dw MapSheet ID: ADT006002

Dw Const#:

Street # 5650

Street Rochester Rd

Lot #

Subdivision

Drain Addison Dryden

Downstream Pipe Shape: Open Trench

Downstream Pipe Size: In.

Invert: Ft. Number Steps:

Mh. Depth: Ft. Number of Bolts:

Mh. Diameter: Ft. Cover Diameter:

Adjusting Material Height: Ft.

In. Downstream Pipe Length 2478 Ft.

Catch Basin Connections

Traffic Control

Yes No

Composition

- Asphalt
- Concrete
- Gravel
- Sod
- Grass Seed
- Unfinished

Location in Lot

- Front
- Back
- Side
- Not in Lot

Surface

- Roadway
- Drive Way
- Sidewalk
- Road Shoulder
- Ditch
- Lawn
- Field/Woods
- Undefined

Good Condition:

Needs Repair:

Crew

Inspection Repair

Section Abandoned

This Structure is an End Section

Cross Roads: Rochester & Bordman

Date: 11-9-16

Crew Names:

MARK McLAERY

CODY WAKEFORD

Mark McLaery

Crew Leader Signature

Inspection Area:

ADT006003 - ADT006002

Conditions: (Give details, take photos & measurements if needed)

SWAMP, HEAVY vegetation
banks - 4'-20'
wide - 6'-20'

ALSO HAVE BEAVER DAM 600' upstream from ADT006002

Recommendations:

CUT blockages out of flow from ADT006002
upstream ABOUT 600' to SWAMP
2 crews 1/2 days

Equipment:

Rubber Boots
Chaps
PPE

Storm Structure Inspection Sheets

7

Nov 07, 2016

Up MapSheet ID: ADT006002

Up Const#: ADT006002

GPS Captured

Dw MapSheet ID: ADT006001

Dw Const#: _____

Street # _____ Street Bordman Lot # _____

Subdivision _____ Downstream Pipe Shape: **Circle**

Drain **Addison Dryden** Downstream Pipe Size: **42** In.

Invert: _____ Ft. Number Steps: _____

Mh. Depth: _____ Ft. Number of Bolts: _____

Mh. Diameter: _____ Ft. Cover Diameter: _____

Adjusting Material Height: _____ Ft.

In. Downstream Pipe Length: **28** Ft.

Catch Basin Connections: _____

Traffic Control

Yes

No

Frame

East Jordan

Neehan

Unknown

Frame Type

Plain

Bolt-down

Other

Cover Type

Plain

Bolt-down

Other

Composition

Asphalt

Concrete

Gravel

Sod

Grass Seed

Unfinished

Surface

Roadway

Drive Way

Sidewalk

Road Shoulder

Ditch

Lawn

Field/Woods

Undefined

Location in Lot

Front

Back

Side

Not in Lot

Manhole Construction

Poured in Place

PreCast Concret

Block

Brick

Combo Brick/Block

Adjusting Material

Concrete Rings

Block Work

Brick

None

Crew

Inspection

Repair

Structure **NEW DATA - PLEASE VERIFY ACCURACY**

Comments: _____

ATMOSPHERIC TESTS Date: 11-9-16 02

SERIAL NUMBER# : 913070253 PID): 0

LEL/Comb/H2 (%) : 0 OXY/O2 (%) : 20.9

CO (ppm): 0 H2S (ppm): 0

Employee Signature: [Signature]

- Manhole Needs Work**
- E1 [] Manhole Leaks
 - E2 [] Illegal Connection-Sump Pump or Drainage
 - E4 [] Root Intrusions
 - E5 [] Chemicals or Oils Evident
 - E6 [] Deteriorated Adjustment Material
 - E7 [] Needs Brick Repairs
 - E8 [] Lead Needs Pointing
 - D1 [] Could Not Locate
 - D2 [] Manhole Buried, Needs Raising
 - D3 [] Loose Manhole Frame
 - D4 [] Broken Concrete Adjusting Rings
 - D5 [] Manhole Missing Steps
 - D6 [] Spillway Needs Repair
 - D7 [] Cracked or Wrong Size Manhole Cover
 - D8 [] Manhole Pre-cast Section Cracked
 - D9 [] Manhole Needs Lowering
 - D0 [] Replace Frame/Lid or Adjusting Material
 - DA [x] Needs Repair
- (Write in repair comments):

Last Reading	LeI	CO	O2	H2S	PID
	-1	-1	-1	-1	-2

This Structure is an End Section

Type of Structure

Storm Manhole Outlet Retention Pond

Drop Manhole Catch Basin Diversion Chamber

Inlet Detention Pond Junction Chamber

Downstream Line Condition

- L1 [] Downstream Line OK - Best that can be determined
- L2 [] Line Joints Need Repair
- L3 [] Settlement in Pipe, Line OK
- L4 [] Settlement in Pipe, Needs Attention
- A [] Manhole in Good Condition
- C [] Manhole/CB Needs Cleaning
- R [] Needs Surface Restoration without Soil Erosion Measur
- S [] Needs Surface Restoration with Soil Erosion Measures
- X [] Unsafe Atmosphere
- Z [] Manhole Abandoned

Need to cut logs from the front of inlet.

JOHN P. McCULLOCH
OAKLAND COUNTY DRAIN COMMISSONER

Page 2 of 4 02/20/07

Storm Structure Inspection Sheet

Friday, January 03, 2014

Township ADT Sheet 006 Manhole ADT 05001 GPS Captured Downstream Manhole: ADT05001

Street # _____ Street BORDMAN

Subdivision _____ Lot Number _____

Drain ADDITION - DRY Down Drain

Invert: Ft. Number Steps:

Mh. Depth: Ft. Number of Bolts:

Mh. Diameter: Ft. Cover Diameter:

Adjusting Material Height:

Downstream Pipe Size: 24" Ditch

Downstream Pipe Length: 1082 Ft.

In. Catch Basin Connections:

Traffic Control

Yes
 No

- Frame**
- East Jordan
 - Neehan
 - Unknown

- Frame Type**
- Plain
 - Bolt-down
 - Other

- Cover Type**
- Plain
 - Bolt-down
 - Other

- Composition**
- Asphalt
 - Concrete
 - Gravel
 - Sod
 - Grass Seed
 - Unfinished

- Surface**
- Roadway
 - Drive Way
 - Sidewalk
 - Road Shoulder
 - Ditch
 - Lawn
 - Field/Woods
 - Undefined

- Location in Lot**
- Front
 - Back
 - Side
 - Not in Lot

- Manhole Construction**
- Poured in Place
 - PreCast Concrete
 - Block
 - Brick
 - Combo Brick/Block

- Adjusting Material**
- Concrete Rings
 - Block Work
 - Brick
 - None

- Crew**
- Inspection
 - Repair

Hazard Accessment Permit #: _____

Manhole Comments: _____

ATMOSPHERIC TESTS

SERIAL NUMBER# : 913076257 PID: 0
 LEL/Comb/HC (%): 0 OXY/O2 (%): 20.9
 CO (ppm): 0 H2S (ppm): 0

Date: 11-9-16

Matt Mead
Employee Signature

Manhole Needs Work

- E1[] Manhole Leaks
- E2[] Illegal Connection-Sump Pump or Drainage
- E4[] Root Intrusions
- E5[] Chemicals or Oils Evident
- E6[] Deteriorated Adjustment Material
- E7[] Needs Brick Repairs
- E8[] Lead Needs Pointing
- D1[] Could Not Locate
- D2[] Manhole Buried, Needs Raising
- D3[] Loose Manhole Frame
- D4[] Broken Concrete Adjusting Rings
- D5[] Manhole Missing Steps
- D6[] Spillway Needs Repair
- D7[] Cracked or Wrong Size Manhole Cover
- D8[] Manhole Pre-cast Section Cracked
- D9[] Manhole Needs Lowering
- D0[] Replace Frame/Lid or Adjusting Material
- DA[] Needs Repair

(Write in Repair Comment Below)

This Structure is an End Section

- Type of Structure**
- Storm Manhole
 - Outlet
 - Drop Manhole
 - Catch Basin
 - Inlet
 - Detention Pond
 - Headwall
 - No End Treatment
 - Retention Pond
 - Ordinary Manhol
 - Combo CB-MH

Downstream Line Condition

- L1 [] Downstream Line OK - Best that can be determined
- L2 [] Line Joints Need Repair
- L3 [] Settlement in Pipe, Line OK
- L4 [] Settlement in Pipe, Needs Attention
- A. Manhole in Good Condition
- C [] Manhole/CB Needs Cleaning
- R [] Needs Surface Restoration with no Soil Erosion Measu
- S [] Needs Surface Restoration with Soil Erosion Measures
- X [] Unsafe Atmosphere
- Z [] Manhole Abandoned

Problems: _____

Storm Structure Inspection Sheets

8

Nov 07, 2016

Up MapSheet ID: ADT006001

Up Const#: ADT006001

GPS Captured

Dw MapSheet ID: ADT005001

Dw Const#:

Street # _____ Street Bordman Rd

Lot # _____

Subdivision _____

Downstream Pipe Shape:

Open Trench

Drain Addison Dryden

Downstream Pipe Size:

_____ In.

Invert:

Ft. Number Steps:

Mh. Depth:

Ft. Number of Bolts:

Adjusting Material Height:

_____ Ft.

Mh. Diameter

Ft. Cover Diameter:

In. Downstream Pipe Length

1082 Ft.

Catch Basin Connections

Traffic Control

Yes
 No

Composition

- Asphalt
- Concrete
- Gravel
- Sod
- Grass Seed
- Unfinished

Location in Lot

- Front
- Back
- Side
- Not in Lot

Surface

- Roadway
- Drive Way
- Sidewalk
- Road Shoulder
- Ditch
- Lawn
- Field/Woods
- Undefined

Good Condition:

Needs Repair:

Crew

- Inspection
- Repair

Section Abandoned

This Structure is an End Section

Cross Roads: Bordman & Rochester

Date: 11-9-16

Crew Names:

MARK McARTY
CODY WAKEFORD

Crew Leader Signature

Inspection Area:

ADT006001 - ADT005001

Conditions: (Give details, take photos & measurements if needed)

4'-10' BANKS
10'-15' wide
Light Erosion
No vegetation

Recommendations:

CUT TREES OUT OF THE FLOW.
2 CREWS
2 DAYS

Equipment:

RUBBER BOOTS
CHAIN SAWS PPE

Storm Structure Inspection Sheets

8

Nov 07, 2016

Up MapSheet ID: ADT005001

Up Const#: ADT005001

GPS Captured

Dw MapSheet ID: OUTLET

Dw Const#:

Street # _____ Street Boodman Rd Lot # _____

Subdivision _____ Downstream Pipe Shape: Circle Open Ditch
Drain Addison Dryden Downstream Pipe Size: _____ In.

Invert: _____ Ft. Number Steps: _____
Mh. Depth: _____ Ft. Number of Bolts: _____
Mh. Diameter: _____ Ft. Cover Diameter: _____
Adjusting Material Height: _____ Ft.
In. Downstream Pipe Length: _____ Ft.
Catch Basin Connections: _____
 Yes
 No

Frame <input type="checkbox"/> East Jordan <input type="checkbox"/> Neehan <input type="checkbox"/> Unknown	Frame Type <input type="checkbox"/> Plain <input type="checkbox"/> Bolt-down <input type="checkbox"/> Other	Cover Type <input type="checkbox"/> Plain <input type="checkbox"/> Bolt-down <input type="checkbox"/> Other	Composition <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Sod <input type="checkbox"/> Grass Seed <input type="checkbox"/> Unfinished	Surface <input type="checkbox"/> Roadway <input type="checkbox"/> Drive Way <input type="checkbox"/> Sidewalk <input type="checkbox"/> Road Shoulder <input type="checkbox"/> Ditch <input type="checkbox"/> Lawn <input checked="" type="checkbox"/> Field/Woods <input type="checkbox"/> Undefined	Location in Lot <input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Side <input type="checkbox"/> Not in Lot
Manhole Construction <input type="checkbox"/> Poured in Place <input type="checkbox"/> PreCast Concret <input type="checkbox"/> Block <input type="checkbox"/> Brick <input type="checkbox"/> Combo Brick/Block	Adjusting Material <input type="checkbox"/> Concrete Rings <input type="checkbox"/> Block Work <input type="checkbox"/> Brick <input type="checkbox"/> None	Traffic Control <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Structure NEW DATA - PLEASE VERIFY ACCURACY
Comments:

ATMOSPHERIC TESTS Date: 11-9-16 02

SERIAL NUMBER# : 913070253 PID): 0
 LEL/Comb/HC (%): 0 OXY/O2 (%): 20.9
 CO (ppm): 0 H2S (ppm): 0

Employee Signature: [Signature]

Manhole Needs Work

	Last Reading	Lel	CO	O2	H2S	PID
E1 [] Manhole Leaks		-1	-1	-1	-1	-2
E2 [] Illegal Connection-Sump Pump or Drainage						
E4 [] Root Intrusions						
E5 [] Chemicals or Oils Evident						
E6 [] Deteriorated Adjusting Material						
E7 [] Needs Brick Repairs						
E8 [] Lead Needs Pointing						
D1 [] Could Not Locate						
D2 [] Manhole Buried, Needs Raising						
D3 [] Loose Manhole Frame						
D4 [] Broken Concrete Adjusting Rings						
D5 [] Manhole Missing Steps						
D6 [] Spillway Needs Repair						
D7 [] Cracked or Wrong Size Manhole Cover						
D8 [] Manhole Pre-cast Section Cracked						
D9 [] Manhole Needs Lowering						
D0 [] Replace Frame/Lid or Adjusting Material						
DA [] Needs Repair						

(Write in repair comments):

This Structure is an End Section

Type of Structure

<input type="checkbox"/> Storm Manhole	<input checked="" type="checkbox"/> Outlet	<input type="checkbox"/> Retention Pond
<input type="checkbox"/> Drop Manhole	<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Diversion Chamber
<input type="checkbox"/> Inlet	<input type="checkbox"/> Detention Pond	<input type="checkbox"/> Junction Chamber

Downstream Line Condition

L1 [] Downstream Line OK - Best that can be determined
 L2 [] Line Joints Need Repair
 L3 [] Settlement in Pipe, Line OK
 L4 [] Settlement in Pipe, Needs Attention
 A Manhole in Good Condition
 C [] Manhole/CB Needs Cleaning
 R [] Needs Surface Restoration without Soil Erosion Measur
 S [] Needs Surface Restoration with Soil Erosion Measures
 X [] Unsafe Atmosphere
 Z [] Manhole Abandoned

JOHN P. McCULLOCH
OAKLAND COUNTY DRAIN COMMISSONER







Addison Dryden INTERCOUNTY DRAIN

Lapeer & Oakland Counties

RESOLUTION RE: AUTHORIZED PUBLIC AGENCY STATUS

At a regular meeting of the Addison Dryden Intercounty Drain Drainage Board held in the City/Township of Lapeer, Michigan, on November 30, 20 16 at 1:30 o'clock p.m.

PRESENT: Summa & Korth

ABSENT: _____

The following resolution was offered by Suma and seconded by Korth:

WHEREAS, a drain project/maintenance for the _____ Intercounty Drain was deemed necessary pursuant to the Michigan Drain Code, MCL 280.1 *et seq*;

WHEREAS, Part 91 of Public Act 451 of 1994 ("Part 91") requires that soil erosion and sedimentation control permits be obtained from a county or municipal enforcing agency for earth change activities that disturb one or more acres or are located within 500 feet of a lake or stream;

WHEREAS, Part 91 further provides that state agencies or agencies of a local unit of government that are designated as Authorized Public Agencies (APA) by the Michigan Department of Environmental Quality (MDEQ) may undertake earth change activities for projects under their jurisdiction in accordance with soil erosion and sedimentation control procedures approved by the MDEQ as an alternative to obtaining soil erosion and sedimentation control permits;

WHEREAS, Part 91 further provides that a state agency or an agency of a local unit of government may apply to the MDEQ for designation as an APA by submitting to the Department the soil erosion and sedimentation control procedures governing all earth changes normally undertaken by the agency;

WHEREAS, Pursuant to an agreement with the MDEQ, Intercounty Drain Drainage Boards will be deemed in compliance with the requirements outlined in Part 91 if each of the Drain Commissioners on the Intercounty Drain Drainage Board is currently an APA and if each of the Drain Commissioners assume Part 91 jurisdiction and responsibility of the portion of the drain project/maintenance undertaken in their County.

WHEREAS, the County Drain Commissioners of Lapeer & Oakland county(ies) have applied to the MDEQ for APA status and are currently designated as APA's pursuant to Part 91;

WHEREAS, the Drain Commissioner(s) of Lapeer & Oakland county(ies) is/are not APA's and therefore permits are required within that/those county(ies).

NOW, THEREFORE BE IT RESOLVED:

1. The Lapeer & Oakland County Drain Commissioner(s) that are APA's agree to assume Part 91 responsibility and jurisdiction for the portion of the Addison Dryden Intercounty Drain project/maintenance that will be undertaken in their respective County((ies). Further, the County Drain Commissioner(s) agree to be responsible for compliance with Part 91 for the drain work in his/her county with the Addison Dryden Intercounty Drain Drainage District assuming liability for any violations or damages that may occur as a result of such work.
2. An application for a Part 91 permit in the name of the _____ Intercounty Drain Drainage District is hereby authorized for earth disturbances on the _____ Intercounty Drain within _____ county(ies) for work being performed because the County Drain Commissioner(s) in that County is not an APA.

AYES: Korth & Suma

NAYS: _____

RESOLUTION ADOPTED.

Michael R. Gregg

Chairperson of Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Drain Maintenance Memorandum

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

TO: Michael Gregg - Chairperson of the Addison-Dryden Intercounty Drain Drainage Board

**FROM: Geoff S. Wilson, P.E. - Assistant Chief Engineer
Ed Thick – Supervisor Drain Maintenance**

SUBJECT: Addison-Dryden Drain Maintenance

DATE: July 21, 2022

The Addison-Dryden Drain primarily has issues with beaver damming portions of the drain. A contracted trapper works on behalf of the Oakland County Water Resources Commissioner (WRC) for many of the requests. WRC removes beaver dams using hand equipment or a mini excavator. The drain was inspected in 2016 and the inspection yielded approximately \$1,700 worth of downed tree removals. The drain is due for a formal inspection which is estimated to cost \$1,000.

The maintenance account has a deficit balance of (\$20,805) as of March 31, 2022. The assessment length of the drain is two miles. The drain is apportioned to Oakland County 76% and to Lapeer County 24%.

Requested Actions:

Authorize the Oakland County Water Resources Commissioner to conduct a drain inspection and perform necessary maintenance (as limited by the Michigan Drain Code) for 2023.

Approve an assessment of \$10,000 for 2023.



2017 Orthophotography
DRAIN QUARTER GRID(S)
 3 QUARTER SHEET(S):
 ADT005, ADT006, ADT009

ADDISON DRYDEN DRAIN - INTER - COUNTY

Oakland County
Revenue and Expenditures - 8 year Comparison
Fund: 25359 Addison Dryden Ch 5 Drain

	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Revenues								
630805 Forfeiture of Deposits	0.00	343.90	0.00	0.00	0.00	0.00	0.00	0.00
630966 Inspection Fees	500.00	156.10	0.00	0.00	0.00	0.00	689.26	0.00
655077 Accrued Interest Adjustments	0.52	0.30	(1.37)	(7.70)	(6.94)	(34.45)	21.19	26.79
655385 Income from Investments	1.01	(1.41)	(23.93)	(52.23)	(115.97)	(224.03)	(317.41)	(157.85)
Total Revenues	501.53	498.89	(25.30)	(59.93)	(122.91)	(258.48)	393.04	(131.06)
Expenditures								
730044 Adj Prior Years Revenue	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
730373 Contracted Services	0.00	0.00	0.00	0.00	0.00	0.00	1,235.00	1,040.00
771638 Drain Equip Labor	213.97	1,799.81	1,756.64	3,676.18	1,377.78	4,812.04	1,262.10	1,029.50
771639 Drain Equipment	28.15	398.62	413.63	626.30	271.14	909.92	188.18	277.87
Total Expenditures	242.12	2,448.43	2,170.27	4,302.48	1,648.92	5,721.96	2,685.28	2,347.37

Agenda Item No. 6

Other Business

Agenda Item No. 7

Adjourn