

Drain: JR MCKENZIE Drain #: 146  
Improvement/Arm: OA PHEBUS  
Operator: J. LIVINGSTON Date: 3-25-04  
Drain Classification: Urban/Rural Year Installed: 1912

### GIS Drain Input Checklist

- Pull Source Documents for Scanning
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Stamp Plans
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Check Database entries for errors

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Gasb 34 Footages for Historical Cost  
Drain Length Log

Drain-Improvement: JR MCKENZIE - OA PHEBUS

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	18"	334'	334		6.50/lf	2171.00
	14"	2100'	2100'		4.25/lf	8925.00
	15"	6'	6'		5.00/lf	30.00

Sum: 2440'    2440'    \$11,126.00

Final Report: 2440'

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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STATE OF INDIANA.

SS:-

HAMILTON COUNTY.

IN THE MATTER OF THE ... *A. A. Phebus*  
..... *Drain* .....

Report of the Drainage Commissioners and Engineer.

To The Honorable Judge of The Hamilton Circuit Court.

The undersigned Drainage Commissioners and Engineer to whom was referred the above entitled petition for the drainage of certain lands in Adams Township, Hamilton County, Indiana, would respectfully report that on the *1.1.* day of *November* 1912 we met at the head of the proposed drain and proceeded to survey and lay out said drain and examine the lands to be drained by said proposed drain, We would ~~furthor~~ report that we have definitely determined the best and cheapest method of draining said lands and fixed the ~~xxx~~ route, location and character of the proposed work and fixed the same by metes and bounds, courses, distances and descriptions, grades and bench marks so as to provide for the complete drainage of the lands affected by the proposed work. We have divided the work into sections of not more than 100 feet in length and have computed and set out the number of cubic yards of excavation in each station and have assessed the benefits to each separate tract of land and to the proper Township, where Highways are benefited, We have fixed the beginning and outlet of said drain so as to secure the best results and cause the least possible injury to the lands affected and so as to benefit the public highways. We believe the drain when completed will be practicable, ~~thx~~ that the public health will be improved; that... *2.* ...public Highways will be benefited, that the ditch will be of public utility and that the cost and expense of constructing said drain will be less than the benefits to the lands assessed for the construction, that the best and cheapest method of securing said drainage is by a ... *the drain as* .....

Beginning 12 feet south and 15 feet west of the south east corner of the north east quarter of Section 19 Township 20 north of range 3 east in Hamilton County, Indiana, run thence north following the line of the west gutter of the north Adams Gravel Road to and entering the John R McKinzie ditch at stake 139+10 of said John R McKinzie Ditch about two hundred and ten feet south and 15 feet west of the north east corner of said quarter section.

#### REQUIREMENTS.

Said Ditch to consist of one row of 18 Inch drain tile from station 0 to station 3+34. One row of 14 inch drain tile from station 3+34 to station 24+34. One row of 15 inch sewer tile from station 24+34 to station 24 +39.

A concrete retaining wall at station 24+40 in dimensions (18 " x 24 " ) X 6' x 12'.

One concrete catch basin at station 0.

One concrete catch basin at station 3+34.

The connection of certain tile ditch at station 2+90 as shown on the plat and also the connection or repair of a portion of an arm to an arm of the John R McKinzie Ditch beginning at the catch basin located at station 3+34 and running thence to the north east following the line of said arm a distance of 115 feet.

Said repair to consist of ~~xxxxxxxxxxxxxxx~~ <sup>two</sup> row of 12 inch drain tile. and connected to catch basin number two.

Said ditch to be constructed in accordance with the specifications therefor and the plat hereto attached.

The proper connections shall be made where shown on plat, and the cost for making said connections has been included in the estimate for construction. From station 0 to station 3+34 and also the 115 feet to be repaired, ~~the~~ there now exists a tile drain which shall be taken up and the tile used for making repair of the arm to John R McKinzie Ditch.

MIXTURE OF CONCRETE.

The mixture of the concrete for the wall and catch basins shall be one part portland cement to five parts sand and gravel of an approved quality.

The concrete wall to be built in forms so that when completed the wall will have a neat and smooth finish and so constructed as to receive the tile at the proper grade.

The catch basins shall be built up in circular forms, shall have 8 inch walls. Said Basins shall be three and one half feet in diameter inside measurements and shall be brought to a cone shape top of the proper dimensions to receive the iron grated cover, said cover shall be 24 inches in diameter with cone shaped tops and shall be properly imbedded in the concrete.

the Catch Basins shall be at the proper depth to receiver the outlet tile one foot above the base of the wall.

FALL OF THE ESTABLISHED GRADE.

15/100	feet	to	each	100	feet	from	station	0	to	station	4.
10/100	"	"	"	100	"	"	"	4	"	"	15.
60/100	"	"	"	100	"	"	"	15	"	"	18.
10/100	"	"	"	100	"	"	"	18	"	"	23.
30/100	"	"	"	100	"	"	"	23	"	"	24.
10/100	"	"	"	40	"	"	"	24	"	"	24+40.

**LAYING TILE FILLING DITCH DEDDENING AND GRUBBING.**

All tile used in the construction of this drain shall be first class quality and subject to the inspection of the Superintendent in charge of the work, They shall be laid in the trench in a true line with joints well matched and at proper grade as shown on profile hereto attached and marked ( EXHIBIT B ) and made a part of this report and shall be left uncovered untill examined by the Superintendent after which the trench, where the ditch is new out, shall be filled full and where the ditch runs in the old channell the tile shall be covered with two feet of earth.

Trees and bushes shall be cut or deddened on eachside of the ditch for a distance of 25 feet except in the opinion of the Superintendent it is advisable to leave certain trees.

All work to be done in a first class and workmanlike manner, and to the full satisfaction of the Superintendent in charge of the work.

Where deep cuts occur the filling to be done in layers of about 3 feet and allowed to settle, by receiving rain or otherwise.

P R O F I L E .

station	Cut	Cubic Yards.
0	4.70	<del>38</del>
1	4.55	38
2	4.10	38
3	3.00	26
4	3.98	26
5	4.45	31
6	5.95	39
7	6.39	46
8	5.84	46
9	6.05	44
10	6.39	46
11	7.84	53
12	9.26	63
13	9.36	69
14	7.74	63
15	6.34	52
16	4.58	41
17	3.87	31
18	3.91	29
19	4.39	31
20	4.19	32
21	4.24	31
22	4.38	32
23	3.94	31
24	3.79	29
+39	2.24	10
		-----
		967
Proper connections		83
		-----

Total Cubic Yards 1050

ESTIMATED COST.

1050 Cubic Yards of excavation and fill.....	\$	262.50
334 feet of 18 drain tile.....	\$	88.51
2100 feet of 14 inch drain tile.....	\$	315.00
55 feet of 8 inch drain tile.....	\$	26.40
6 feet of 15 inch sewer tile.....	\$	2.40
Two Catch Basins complete.....	\$	45.00
Concrete retaining wall 31 inches below grade...		
24 " base, 18 " Top, 6 feet high, 12 feet long.....	\$	35.00
	\$	774.81

We claim for our services in locating, Viewing, Surveying and making estimate and reporting, the following.

John Hoskins, Viewer.....	\$	8.00
Shan Spencer, Viewer.....	\$	8.00
J.S.Shannon, Engineer Self and help.....	\$	16.00
	\$	32.00
Estimated Attorney Fees.....		
printing.....	\$	15.00
Superintending Construction.....	\$	50.00
Recording.....	\$	1.00
	\$	96.00

Grand Total.....\$ 898.81



ASSESSMENTS.

Name	Pt	Description.	Geo, Tp, R.	Acres	Amount.
G. A. Phebus	Pt	N. E. N. E.	19 20 3	4	\$ 20.00
	Pt	S. E. N. E.	19 20 3	16	\$ 80.00 \$ 100.00
D. W. Martin		S. W. N. W.	20 20 3	40	\$ 100.00
	Pt	N. W. N. W.	20 20 3	10	\$ 20.00 \$ 120.00
Ellen B Willson		N. W. S. W.	20 20 3	40	\$ 120.00
		S. E. S. E.	19 20 3	30	\$ 60.00 \$ 180.00
Lawson W McKinzie		N. E. S. E.	19 20 3	33	\$ 112.00 \$ 112.00
Jennie Haughey	Pt	N. E. N. E.	30 20 3	R714	\$ 28.00 \$ 28.00
Engene T Williams & Wf.		S. W. S. W.	20 20 3	40	\$ 80.00
	Pt	S. E. S. W.	20 20 3	20	\$ 40.00 \$ 120.00
Frank Colby		N. W. N. W.	29 20 3	40	\$ 80.00
	Pt	S. W. N. W.	29 20 3	30 <sup>145</sup>	\$ 30.00 \$ 110.00
Eva Underwood	Pt	N. E. N. W.	29 20 3	15	\$ 30.00 \$ 30.00
Adams Township		Gravel Road N. & W. Through	19+20-20-3		\$ 30.00
	"	" N. & S. Between	19+20-20-3		\$ 70.00 \$ 100.00
Total.....					\$ 900.00



STATE OF INDIANA.

SS:-

HAMILTON COUNTY.

We the undersigned Drainage Commissioners and ~~XXXXXXXX~~ Surveyor of Hamilton County, Indiana, to whom was referred the above entitled petition for report after first being duly sworn upon his oath says that we have personally examined each tract of land as set out in this report and that we have examined the whole line of route of the proposed drain and that no other lands than the above set out and described will be benefited or injured by said drain, and that the above report is true in substance and in fact as we each verily believe.

Drainage Commissioners.

Engineer.

Subscribed and sworn to before me this the .....day of .....1912

Clerk Hamilton Circuit Court.