

Source Document Log
Source Document Discrepancy Log (Over)

Drain: JH LEAP

#	Main/Arm Name	Document Name	Document ID	Info From Document
1	JH LEAP	COMMISSIONERS' REPORT	2-12-1883	ORIGINAL OPEN DITCH AS HL ORD
2		COMMISSIONERS' REPORT	8-31-1909	TILE
4		DITCH REPAIR BOOK	DR 5 122 / 3-26-192	MAIN DITCH TILE EXTENDED TO STA 8+50, DATE UNKNOWN
5		WORK ORDER	WO-91-006	BREATHERS
6		WORK ORDER	WO-92-158	CATCH BASIN
7		WORK ORDER	WO-2000-00025	BREATHERS

Drain: JH LEAP **Drain #:** 72
Improvement/Arm: _____
Operator: J. LIVINGSTON **Date:** 3-3-04
Drain Classification: Urban~~Rural~~ **Year Installed:** 1883

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 _____

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: J4 LEAP

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	8"	25'	25'		2. ⁰⁰ /lf	50. ⁰⁰
	16"	825'	825'		5. ⁵⁰ /lf	4537. ⁵⁰
OPEN DITCH	—	7450'	7450'		19. ⁵⁰ /lf	145,647. ⁵⁰
ARM 1 - TILE	8"	1390'	1390'		2. ⁰⁰ /lf	2780. ⁰⁰
	10"	1360'	1360'		3. ⁰⁰ /lf	4080. ⁰⁰
	12"	1350'	1350'		4. ⁰⁰ /lf	5400. ⁰⁰
	14"	563'	563'		4. ²⁵ /lf	2392. ⁷⁵
	15"	637'	637'		5. ⁰⁰ /lf	3185. ⁰⁰
ARM 1 OF 1 - TILE	10"	2235'	2235'		3. ⁰⁰ /lf	6705. ⁰⁰
ARM 2 OF 1 - TILE	4"	269'	269'		1. ⁰⁰ /lf	269. ⁰⁰
ARM 3 OF 1 - TILE	5"	809'	809'		1. ⁰⁰ /lf	809. ⁰⁰
ARM 4 OF 1 - TILE	8"	1100'	1100'		2. ⁰⁰ /lf	2200. ⁰⁰
ARM 1 OF 4 OF 1	4"	384'	384'		1. ⁰⁰ /lf	384. ⁰⁰

Sum: 18,397' 18,397' \$178,439.⁷⁵

Final Report: 18,397'

Comments:

MYLAR MAP on FILE,

✓
DRAIN PLACED IN GIS USING LEGAL DESCRIPTION, VISIBLE ELEMENTS ON THE DIGITAL ORTHO PHOTOS AND INTERPOLATION. LOCATION AT SOME POINTS APPROXIMATE.

ORIGINAL SPECIFICATIONS

DESCRIPTION OF THE MANNER IN WHICH THE WORK SHALL BE DONE

Width at Top	Depth at Cut	Width at Bottom
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This Ditch consist of 850 Feet of tile And 7450 Feet of Open Ditch, and must be repaired to its original Specifications, by removing all mud, slush, that is in it, the same to be deposited not nearer than two feet from the break of the Banks, all bushes, briars, and weeds must be cut, and removed from the ditch and banks a distance of five feet, on each side of the ditch, overhanging trees, logs, ect; must be removed,

The Ditch is three foot wide in bottom with side slopes 1 to 1, or 45° from Station 8+50 to Station 83 or terminus.

All work to be done in a first class & workman like manner, and to the full satisfaction of the (Trustee)

J. S. Shannon,
Co. Surveyor.

No. 5335

Report of Commissioners.

FAVORABLE.

W. L. Orr et al

Filed Feb 12, 1883

J. R. Christian
Clerk Circuit Court.

Wm. B. Burford, Printer, Indianapolis.

REPORT OF COMMISSIONERS.

To the Honorable Judge of the Hamilton Circuit Court:

The undersigned, Commissioners of Drainage, to whom was referred the petition of W. D. ... & John Hunt ^{W. A. H. Evans} for the drainage of the South half of North West quarter of Section 3 Township 19 Range 4 East & the East half of South West quarter of section 3 Township 19 Range 4 East & 20 acres of the north half of the north East quarter of the north west quarter of section 10 Township 19 Range 4 East

in Hamilton

County, respectfully report that they have

inspected personally all the lands described in said petition, and all other lands liable to be affected by the construction of the proposed work, and are of the opinion that the proposed drainage will improve the public health of that neighborhood, will benefit two public highways that the same will be of public utility, and can be accomplished at an expense less than the aggregate benefits to the lands to be affected thereby. And after causing the necessary surveys and examinations to be made they determine that the method of drainage should be as follows to wit:

See 3 page of report.

They estimate the cost of constructing the work at seven hundred thirty seven dollars. They further report that they have estimated the benefits and injury

to the several tracts of land which will be affected by the work, as follows:

OWNERS.	DESCRIPTION.	S.	T.	R.	Acres.	Injury.	Benefit.
Elliott Sumner	NE qr NW qr	3	19	4	40		\$ 10 00
Elliott Sumner	NW qr NW qr	3	19	4	40		5 00
Wmcd McConnell	SE qr NE qr	4	19	4	40		45 00
Wmcd McConnell	pt NE $\frac{1}{4}$ NE $\frac{1}{4}$ begin at SE corner of said NE $\frac{1}{4}$ NE $\frac{1}{4}$ run north $2\frac{1}{4}$ rods west 80 rods south $2\frac{1}{4}$ rods east 80. rods to beginning containing	4	19	4	12		10 00
Margaret Sturdivant	NE $\frac{1}{4}$ SE $\frac{1}{4}$	4	19	4	40		65 00
Margaret Sturdivant	SE $\frac{1}{4}$ SE $\frac{1}{4}$	4	19	4	40		25 00
Elizabeth Jennings	NW $\frac{1}{4}$ SW $\frac{1}{4}$	3	19	4	40		55 00
Elizabeth Jennings	SW $\frac{1}{4}$ SW $\frac{1}{4}$	3	19	4	40		55 00
John Hunt	NE $\frac{1}{4}$ SW $\frac{1}{4}$	3	19	4	40		95 00
John Hunt J. H.	SE $\frac{1}{4}$ SW $\frac{1}{4}$	3	19	4	40		115 00
William Lickitt Est.	SW $\frac{1}{4}$ SE $\frac{1}{4}$	4	19	4	40		5 00
George Beatty	SE $\frac{1}{4}$ NW $\frac{1}{4}$	10	19	4	40		60 00
Emmanuel Royer	SW $\frac{1}{4}$ NE $\frac{1}{4}$	10	19	4	40		45 00
Emmanuel Royer P. J. Reasner	NW $\frac{1}{4}$ NE $\frac{1}{4}$	10	19	4	40		20 00
P. J. Reasner	NW $\frac{1}{4}$ SE $\frac{1}{4}$	10	19	4	40		20 00
Henry Orr	SW $\frac{1}{4}$ NW $\frac{1}{4}$	3	19	4	40		95 00
Henry Orr	SE $\frac{1}{4}$ NW $\frac{1}{4}$	3	19	4	40		65 00
							<u>800 00</u>

All of which is respectfully submitted.

Commissioners.

OWNERS.

DESCRIPTION.

S. T. R. A. Benefits. Injury.

A H Evans

part of N $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$ begin 10 19 4
at North east corner
of said S $\frac{1}{2}$ W $\frac{1}{2}$ run
west 120 rods south
26 $\frac{2}{3}$ rods East 120 rods
north 26 $\frac{2}{3}$ rods
containing

~~25.00~~

20 25.00

Nathan Hiatt
Geo Krum

part of N $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$ 10 19 4
begin 26 $\frac{2}{3}$ rods south
of N $\frac{1}{2}$ corner of said
north west 120 rods
west 120 rods south
53 $\frac{1}{3}$ rods East 120 rods
north 53 $\frac{1}{3}$ rods to
beginning containing

40 50.00

Jackson Township

Public Highway
on the line between
running East & west
on the line between

3 10 19 4 20 20.00

Jackson Township

Public Highway
running north &
south through the
center of

10 19 4 20 20.00

Fault

S $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$

3 19 4 30.00

amount brought from page 2 600.00

Total assessment 945.00

3rd page

By the construction of a ditch commencing 50 rods East of S.W. corner N.W. 1/4 Section 8 Township 19 Range 4 and run thence.

S 69° East	250 ft	S 82° E -	350 ft
S 29 E	200 "	S 62 E	110 "
East	230 "	South	180 ft
East	165 "	S. 9. E	590 "
S 16. W	330 "	S. 4. E	440 "
S. 4. W	300 "	S. 16. E	460 "
S. 2 1/4 E	270 "	S. 12. E	240 "
S. 22. E,	440 "	S 37 1/2 E,	150 "
South	190 "	S 15 1/2 E	590 "
S 45 1/2 E	1000 "	S 35 1/2 E	150 "
South	400 "	East	660 "
South	200 "	East	200 "

And terminate 70 rods west 60 rods south of the North East corner of the South East quarter Section 10 Township and range aforesaid

The following is a tabulated statement of the number of Station Depth of cut number of cubic yards width at bottom and top &c at each stake and for each one hundred feet.

No. of Station.	Depth of Cut.	Width at Bottom.	Width at Top.	No. Cubic Yards.	Cost per Cubic Yard.	Cost per	Section.	No. of Station.	Depth of Cut.	Width at Bottom.	Width at Top.	No. Cubic Yards.	Cost per Cubic Yard.	Cost per	Section.
0	4.	1	9.		12 1/2			33	4.7	1.	10.4	66	12 1/2	8	25
1	3.4	1	7.8	64	"	\$8.00		34	5.5	1.	12.0	90	"	11	25
2	3.5	1	8.0	50	"	6	25	35	4.4	1.	9.8	87	"	10	87 1/2
3	3.4	1	7.8	45	"	5	62 1/2	36	4.1	1.	9.2	66	"	8	25
4	3.9	1	8.8	51	"	6	37 1/2	37	4.3	1.	9.6	81	"	8	12 1/2
5	3.2	1	7.4	53	"	6	62 1/2	38	4.8	1.	10.6	91	"	11	37 1/2
6	3.2	1	7.4	44	"	5	50	39	4.4	1.	9.8	20	"	8	75
7	3.5	1	8.0	45	"	5	62 1/2	40	4.5	1.	10.0	63	"	7	87 1/2
8	3.4	1	7.8	50	"	6	25	41	4.6	1.	10.2	71	"	8	87 1/2
9	3.5	1	8.0	50	"	6	25	42	4.5	1.	10.0	76	"	9	50
10	3.7	1	8.4	41	"	5	12 1/2	43	4.7	1.	10.4	80	"	10	50
11	4.7	1	10.4	41	"	5	12 1/2	44	4.9	1.	10.8	88	"	11	50
12	4.1	1	9.2	53	"	6	62 1/2	45	5.3	1.	11.6	100	"	12	50
13	4.1	1	9.2	47	"	5	87 1/2	46	5.7	1	12.4	112	"	14	50
14	3.6	1	8.2	37	"	4	62 1/2	47	4.8	1	10.6	119	"	14	87 1/2
15	4.1	1	9.2	42	"	5	25	48	4.7	1	10.4	99	"	12	87 1/2
16	4.6	1	10.2	64	"	8	50	49	4.4	1	9.8	73	"	9	12 1/2
17	3.4	1	7.8	43	"	5	37 1/2	50	4.9	1	10.8	77	"	9	62 1/2
18	3.6	1	8.2	38	"	4	75	51	5.7	1	12.4	103	"	12	87 1/2
19	3.5	1	8.0	38	"	4	75	52	5.2	1	11.4	103	"	12	87 1/2
20	3.8	1	8.6	41	"	5	12 1/2	53	5.9	1	12.8	102	"	12	75
21	3.5	1	8.0	41	"	5	12 1/2	54	5.9	1	12.8	105	"	13	12 1/2
22	3.5	1	8.0	58	"	7	25	55	5.7	1	12.4	106	"	13	25
23	3.3	1	7.6	55	"	6	87 1/2	56	5.7	1	12.4	101	"	12	62 1/2
24	3.3	1	7.6	40	"	5	50	57	5.2	1	11.4	98	"	12	25
25	3.2	1	7.4	39	"	4	87 1/2	58	4.9	1	10.8	74	"	13	87 1/2
26	3.0	1	7.0	31	"	3	87 1/2	59	5.4	1	11.8	115	"	14	37 1/2
27	3.2	1	7.4	42	"	5	25	60	5.6	1	12.2	132	"	16	50
28	3.2	1	7.4	44	"	5	50	61	5.2	1	11.4	128	"	16	50
29	3.2	1	7.4	44	"	5	50	62	5.0	1	11.0	115	"	14	37 1/2
30	3.6	1	8.2	51	"	6	37 1/2	63	4.9	1	10.8	107	"	13	37 1/2
31	3.6	1	8.2	56	"	7	50	64	5.4	1	11.8	115	"	14	37 1/2
32	3.7	1	8.4	56	"	7	50	65	5.2	1	11.4	123	"	15	37 1/2

No. of Station.	Depth of Cut.	Width at Bottom.	Width at Top.	No. Cubic Yards.	Cost per Cubic Yard.	Cost per	Section.	No. of Station.	Depth of Cut.	Width at Bottom.	Width at Top.	No. Cubic Yards.	Cost per Cubic Yard.	Cost per	Section.
66	4.1	1	9.2	90	12 1/2	11	25								
67	5.0	1	11.0	61	"	7	62 1/2								
68	5.0	1	11.0	86	"	10	75								
69	4.2	1	9.4	75	"	9	37 1/2								
70	5.0	1	11.0	70	"	8	75								
71	4.4	1	9.8	74	"	9	25								
72	4.5	1	10.0	63	"	7	87 1/2								
73	4.7	1	10.4	55	"	8	87 1/2								
74	5.0	1	11.0	58	"	7	25								
75	5.9	1	12.8	48	"	6	00								
76	5.6	1	12.2	56	"	7	00								
77	5.3	1	11.6	58	"	7	25								
78	5.7	1	12.4	57	"	7	12 1/2								
79	5.8	1	12.6	31	"	3	87 1/2								
80	4.5	1	10.0	15	"	1	87 1/2								
81	2.9	1	6.8	9	"	1	12 1/2								
82	3.6	1	8.2	3	"		37 1/2								
												<i>Total Estimate for Cutting</i> 50 cu yds \$576 Cost of removal \$697.00 grub + clear 40.00 <i>Total cost</i> \$737.00			

We further specify that the banks of said ditch shall be cut smooth and of uniform slope, the earth excavated therefrom to be deposited not nearer than 2 ft of the banks of said ditch and to slope away from ditch. All work to be done in a neat and workmanlike manner.

We would a further show that the following named persons are entitled to fees for services as follows to wit:

Thomas Hunt Chain	\$8.00
Law Hunt "	3.00
M. S. Carr ax	3.00
H. B. Orr ax	3.00
L. P. Osenbach rod	4.00

We claim fees for services as Engineer and Commissioners of Drainage in the matter as follows, to wit:

Samuel B. Kelly Commissioner 5 days	\$15.00
James A. McMillan " 4 days	12.00
E. F. Cottingham " 2 da	6.00
E. F. Cottingham Engineer 3 da	15.00

all of which is respectfully submitted

Samuel B. Kelly
James A. McMillan
E. F. Cottingham } Commissioners

STATE OF INDIANA,

Hamilton County, } ss :

We, the undersigned, Commissioners of Drainage, swear that we have each personally examined each tract of land assessed for benefits and damages and the whole route of the proposed work, and that such drain is of sufficient capacity to carry, without overflowing, all the water which flows or should flow along such route, that no other lands than those described in this report will be either benefited or damaged by the construction of the proposed work, and that all the statements therein are true and correct, and that all assessments of benefits and injuries set forth therein are correct, just, fair and equitable to all parties concerned, as we verily believe.

Samuel B Wells
James M Mullan
E. H. Cottingham } Commissioners.

Subscribed and sworn to by said Commissioners, this *12* day
of *February*, 188*5*, before me.

J. Klebitz
Clerk Circuit Court.

THE GLOBE-WERNICKE LEGAL WRAPPER—Patented Feb. 11, 1890—FIRST QUALITY.
Directions: Elevate the metal points—apply the manuscript—then bend the points down flat—damp the gummed flap and stick it down—fastens the papers and hides the metal.

REPORT ON

THE CASE OF THE

ESTATE OF THE

J. H. LEAD ET AL

DEATH.

made on a copy of the original
filed in 1900

WILLIAMS

AUG 31 1900

J. H. LEAD

STATE OF INDIANA
HAMILTON COUNTY SS:

IN THE MATTER OF THE J.H. LEAP ET AL DRAIN

REPORT OF DRAINAGE COMMISSIONERS AND ENGINEER.

TO THE HONORABLE BOARD OF COMMISSIONERS, HAMILTON COUNTY, INDIANA.

The undersigned Commissioners of Drainage, to whom was referred the above entitled petition for the drainage of certain lands in Jackson Township, Hamilton County, Indiana, would respectively report and show to the Board that as directed by the order and mandate of said Board they hereby submit this report.

That as shown by said report they have definitely determined the best and cheapest method of draining said lands; they have fixed the route, location and character of the proposed work and fixed the same by metes and bounds, courses, distances and descriptions, grade and bench marks so as to provide for the complete drainage of the lands to be effected by the proposed work. That they have divided the ditch or drain into sections, each not more than one hundred feet in length that they have computed and set out the number of cubic yards of excavation in each station and they have assessed the benefits and damages as the case may be, to each separate tract of land and to the proper Township where highways were benefited; that they have fixed the beginning and outlet of said drain or ditch so as to secure the best results; that they have run the lines of said ditch so as to secure the best results and cause the least possible injury to the lands effected and so as to benefit the public highway; that said drain when completed will be practicable; that the public health will be improved; that a number of highways will be benefited; that the ditch will be of public utility and that the cost, damages and expenses of completing the work will be less than the benefits to the owners of the lands likely to be assessed for the construction.

Main Ditch.

L O C A T I O N

Beginning 50 rods east of the south west corner of the north west quarter of Section 3 Township 19 Range 4 East, and run thence South 69° east 250 feet, thence south 82° east 350 feet, thence south 29° east 200 feet, thence south 33° east 110 feet, thence east 230 feet, thence south 180 feet, thence ^{cut} 165 feet, thence south 9° east 590 feet, thence south 16° west 330 feet, thence south 4° east 440 feet, thence south 4° west 300 feet, thence south 16° east 460 feet, thence south 2½° east 270 feet, thence south 12° east 240 feet, thence south 22° east 440 feet, thence south 37½° east 150 feet, thence south 190 feet, thence south 15½° east 590 feet, thence south 45½° east 1000 feet, thence south 35½° east 150 feet, thence south 400 feet, thence east 660 feet, thence south 200 feet, thence east 200 feet, and terminate ^{1155'} 70 rods west and ^{790'} 60 rods south of the north east corner of the south east quarter of section 10 Township and Range above described.

Arm NO. 1

Beginning 430 feet south and 457 feet west of the north east corner of the S.W quarter of the N.E quarter of Sec. 4 Tp 19 N. R 24 East Run thence south 18° east 250 feet, thence south 10° east 440 feet, then south 84° east 310 feet, thence south 61° east ³⁹⁰⁺⁶⁵ 475 feet, thence south 46° east 125 feet, thence south 63° east 200 feet, thence south 60½° ^{cut} 200 ft. thence south 55° east 100 feet, thence south 63° east 100 feet, thence south 88° east 150 feet, thence north 59° east 110 feet, thence north 31½° east 240 feet, thence north 25° east 165 feet, thence north 26½° east 70 ft thence north 36° east 150 feet, thence north 88° east 245 feet, thence S. 58° east 170 feet, thence south 36° east 100 feet, thence south 33° east 328 feet, thence south 77½° east 274 feet, thence north 87° east 100 feet. thence north 51° east 100 feet, thence north 62° east 100 ft, thence N. 35½° east 60 ft, thence north 12° east 122 ft, thence north 41° east 198. thence east 820 feet, and terminating in Main Ditch at Sta. 0+25

ARM NO 1 TO ARM NO 1

Begin 495 feet south and 304 feet West of the north east corner of the S.W quarter of the N.E quarter of Sec, 4 Tp 19 N.R.4 East. Run thence S. $57\frac{1}{2}^\circ$ east 200 feet, thence S. 40° east 100 feet, thence S, 44° east 160 feet, thence east 250 feet, thence north 70° east 125 ft, thence north 62° east 100 feet, thence east 40 feet, thence S. 40° east 160 feet, thence S, 54° east 100 feet, thence S. 71° east 300 feet, thence S, 36° east 280 feet, thence S, 43° east 90 feet, thence S, $23\frac{1}{2}^\circ$ east 160 ft thence S, 51° east 205 feet, and terminating in arm NO 1 at sta, 46+63.

ARM NO 2 TO ARM NO 1

Begin 456 feet south of the north east corner of the N.E $\frac{1}{4}$ of S.E $\frac{1}{4}$ of Sec, 4 Tp 19 N.R. 4 E. Run thence N, $71\frac{1}{2}^\circ$ west 194 feet, thence North 75 feet, and terminating in arm NO 1 at Sta, 43

ARM NO 3 TO ARM NO 1

Begin 174 feet north and 561 feet east of the south west corner of the S.W $\frac{1}{4}$ of the N.E $\frac{1}{4}$ Sec, 4 Tp, 19 N.R 4 E. Run thence S, 57° east 330 feet, thence S, 48° east 340 feet, thence S, 49° east 139 feet, and terminating at Stake NO 43 on arm NO1.

ARM NO 4 TO ARM NO1

Begin 108 feet south and 52 feet west of the N.E corner of the S.E $\frac{1}{4}$ of the S.E $\frac{1}{4}$ of Sect, 4 Tp, 19 N.R4 E. Run thence N, $35\frac{1}{2}^\circ$ west 135 ft thence N, 16° west 325 feet, thence N, 28° west 140 feet, thence ^{North} 31° west 212 feet, thence N, 2° west 258 feet, thence N, 42° west 30 feet, and terminating at Sta, 41 on arm NO 1.

ARM NO 1 TO ARM NO 4

Begin 569 feet north of the S.E corner of the N.E $\frac{1}{4}$ of the S.E $\frac{1}{4}$ of Sect, 4 Tp. 19 N.R 4 E. Run thence N, 83° east 200 feet, thence N, 80° E. 137 feet, thence N, 79° east 47 feet, and terminating at stake 8+28 of arm NO 4.

REQUIREMENTS
=====

MAIN DITCH

Ditch to consist of One row of 8 inch tile from station 0 to station 0+25 and one row of 16 inch tile from station, 0+25 to station 2+37, and one row of 18 inch Sewer tile from station 2+37 to station 2+47, and from station 2+47 to station 83 or terminus an open ditch 1 foot wide in the bottom with side slopes 1 to 1 or 45°. all dirt removed to be deposited 2 feet from break of bank.

83+00

Arm NO 1

To consist of one row of 8 inch tile from station 0 to station 13+90, and one row of 10 inch tile from station 13+90 to station 27+50 and one row of 12 inch tile from station 27+50 to station 41, and one row of 14 inch tile from station 41 to station 46+63, and one row of 15 inch tile from station 46+63 to station 53 or terminus.

Arm NO 1 to arm NO 1

Arm #1 83+00

To consist of one row of 10 inch tile from station 0 to station 22+35 or terminus

Arm NO 2 to arm NO 1

To consist of one row 4 inch tile from station 0 to station 2+69 or terminus.

Arm NO 3 to arm NO 1

To consist of one row of 5 inch tile from station 0 to station 8+09 or terminus.

Arm NO 4 to arm NO 1

To consist of one row of 8 inch tile from station 0 to station 11 or terminus.

Arm NO 1 to arm NO 4

To consist of one row of 4 inch tile from station 0 to station 3+84 or terminus.

RETAINING WALL
=====

At station 2+47 to be constructed a retaining wall built of concrete or field rock, Dimensions of same to be 25x6½x2 feet, If built of rock it shall be laid up in mortar made of one part Portland cement to three parts clean sharp sand and so constructed as to receive the tile at proper grade 18 inches above the base of the wall. If of cement it shall consist of one part Portland cement to 5 parts clean sand & gravel.

ESTABLISHED FALL OF THE GRADE IS AS FOLLOWS.

MAIN DITCH.

18/100 fall from station 0 to station 83 or terminus.

ARM NO 1

57/100 fall from station 0 to station 41 and 18/100 fall from station 41 to station 53 or terminus.

ARM NO 1 TO ARM NO 1

70/100 from station 0 to station 16 and 60/100 fall from ~~from~~ station 16 to station 22+35 or terminus.

ARM NO 2 TO ARM NO 1

1.50/100 fall from station 0 to station 2+69 or terminus.

ARM NO 3 TO ARM NO 1

1.10/100 fall from station 0 to station 8+09 or terminus.

ARM NO 4 TO ARM NO 1

10/100 fall from station 0 to station 11 or terminus.

ARM NO 1 TO ARM NO 4

60/100 fall from station 0 to station 3+84 or terminus.

C A T C H B A S I N
#####

At station 13+90 and at station 27+50 on arm NO 1 ~~is~~ catch basins
All above mentioned catch basins to be built from hard burnt brick
laid up in mortar made of one part Portland cement to three parts clean
sharp sand and covered with an iron ring and open cover of the Elwood
or Bellfountain Iron works pattern. Dimensions of same to be 22 inches
in diameter. Said catch basins to be three feet in diameter inside meas-
urement, the walls to be 9 inches thick and extend to a depth of 18 inch
below the bottom of the tile and to a height to conform with the general
conditions of the ground. The bottom of the basin to be floored with one
layer of brick and well plastered over the bottom and up the sides above
the tile. All inlet and outlet tile to be of first grade sewer tile and
to be built in the walls of the catch basins.

L A Y I N G T I L E F I L L I N G D I T C H & E T C .

#####

All tile used in the construction of this ditch shall be of good quality and subject to the inspection and approval by the Superintendent in charge of the work, they shall be laid in the ditch in a true line with joints well matched and at proper grade as shown on the profile hereto attached and marked "EXHIBIT B" and left uncovered until inspected and accepted by the Superintendent, after same have been accepted they shall be covered with earth to a depth of two feet, level across, where the ditch runs in the old channel and where the ditch is new cut, the trench shall be filled full. All trees to be deadened and bushes cut for a distance of 25 feet on each side of the ditch.

C O N N E C T I N G B O X

#####

sta 43 of arm No 1
At the head of the ditch to be constructed a connecting box of cement, the box to be constructed of ~~###~~ a mixture of one part Portland cement to three parts clean sand and gravel and to be built in forms that will receive the tile at each end of the box, the box to be *2 ft wide 2 ft deep 2 ft*
~~4 ft wide 4 ft long 30 inches~~ high, and the top of the box to be made in a form on top of the ground and well reinforced with steel bars. and let well dry and thoroughly set before being placed on the box.

~~F A L L O F E S T A B L I S H E D G R A D E~~

#####

~~## 25/100 ft. per each 100 feet, from sta, 0 to sta, 36 or terminus. At station 29+75 or end of tile to be a drop in the grade of 6 inches.~~

~~E S T I M A T E D C O S T~~

#####

The tile now in the ground near line of ditch, - as far as practical, - to be removed by the contractor, and layed on the bank, and to remain the property of the original Owner.

E S T I M A T E D C O S T

2937 cu yd of excavation -----	\$ 632.40
2 Feet of 8" Sewer tile	.50
10 feet of 18 inch sewer tile -----	\$6.75
4 " " 10 " " " "	1.00
212 " " 16 " " Drain tile -----	40.28
637 " " 15 " " " "	105.10
563 " " 14 " " " "	84.85
1350 " " 12 " " " "	128.25
3595 " " 10 " " " "	237.27
2527 " " 8 " " " "	132.30
809 " " 5 " " " "	16.99
648 " " 4 " " " "	9.79
2 15 inch Y with 8 inch openings at Sta. 41 & Sta. 46+63	6.00
1 connecting box at sta, 43 2 x 2 x 2 -----	4.50
2 catch basins -at- Sta, 13+90 and 27+50	40.00
1 stone retaining wall on M.D. 2+47 25 x 6 1/2 x 2	40.00
Connecting 12 feet 8 inch tile at head of Main Ditch	.75
Deadning, Clearing, Laying tile & falling ditch -----	125.00
	\$1329.03
	\$1612.23

754.83

2937 / 632.40 (2)
 682.8
 2500

PROFILE PAPER.

No. of Station,	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
<i>Main Ditch.</i>						
<i>Stone</i> 0.	3.27		1 Ft.			
B.M.	4.48	EL. 40.28	Burr Oak	0 x 50		North side Ditch.
1	4.75		"	20		
2.	2.55		"	16		
2+47		E 35.35 W 34.85	Stone wall.			
3.	5.15	Slope 1 to 1	"	16		
4.	3.65	"	"	16		
5.	3.93	"	"	16		
6.	4.61	"	"	15		
7.	4.61	"	"	15		
8.	4.72	"	"	14		
9.	4.06	"	"	16		
10.	6.09	"	"	18		
11.	6.41	"	"	18		
12.	5.60	"	"	16		
13.	4.83	"	"	15		
14.	4.22	"	"	14		
<i>Stone</i> 15.	4.76	"	"	14		
16.	5.38	"	"	13		
17.	4.50	"	"	13		
18.	6.03	"	"	12		
19.	7.13	"	"	11		
<i>Stone</i> 20	6.14	"	"	10		
21.	4.45	"	"	10		
22.	4.80	"	"	10		
23	4.80	"	"	11		
24.	4.43	"	"	12		
<i>Stone</i> 25	4.30	"	"	13		
26	4.26	"	"	13		
27.	4.89	"	"	14		

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
28.	3.96	Slope 1 to 1	1 Ft.	15		
29.	4.60	"	"	15		
<i>Stone</i> 30.	4.32	"	"	15		
31.	5.16	"	"	17		
32.	5.08	"	"	18		
33.	5.55	"	"	18		
34.	6.38	"	"	18		
<i>Stone</i> 35.	5.14	"	"	20		
BM	5.69	El. 34.69	Blm. 35 + 65	West side Ditch.		
36.	3.94	"	"	20		
37.	5.27	"	"	15		
38.	5.73	"	"	12		
39.	6.19	"	"	12		
<i>Stone</i> 40.	5.63	"	"	10		
41.	5.52	"	"	10		
42.	5.51	"	"	10		
43.	5.59	"	"	10		
44.	5.84	"	"	9		
45.	6.54	"	"	9		
46.	6.54	"	"	9		
47.	5.76	"	"	9		
48.	6.79	"	"	9		
49.	6.37	"	"	9		
50.	6.37	"	"	8		
51.	6.61	"	"	8		
52.	7.29	"	"	8		
53.	6.80	"	"	8		
54.	7.37	"	"	9		
<i>Stone</i> 55.	7.30	"	"	9		
56.	8.04	"	"	9		
57.	7.01	"	"	9		

Fall 1900 per 100'

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
58	7.87	Slope to 1	1.	8		
59	7.20	"	"	6		
60 60	7.38	"	"	6		
61	6.08	"	"	6		
62	6.89	"	"	6		
63	6.11	"	"	6		
64	6.06	"	"	6		
65	6.63	"	"	6		
66	4.84	"	"	9		
67	5.28	"	"	10		
B.M.	4.09	El. 29.08			Red oak	67+30 W. Base Ditch
68.	5.64	"	"	10		
69.	5.20	"	"	10		
70	5.53	"	"	10		
71	4.79	"	"	10		
72	8.03	"	"	9		
73	5.10	"	"	8		
74	5.73	"	"	6		
75 75	5.03	"	"	6		
76.	5.56	"	"	7		
77	4.24	"	"	5		
78	3.59	"	"	4		
79	3.53	"	"	4		
80 80	4.70	"	"	2		
81	3.66	"	"	2		
82	2.35	"	"	2		
83	2.46	"	"	2		
				900 Cy.		

Fall 18700 per 100'

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
	<i>Amu No 1</i>					
0.	2.69					
1.	2.96			16		
2.	2.68			16		
2+64	1.77					
3.	2.54			14		
B.M.	3.19	El. 62.89			Elu Sta	3+45
4.	2.59			14		
5.	2.57			14		
6.	2.75			15		
7.	2.96			16		
8.	3.19			17		
9.	3.23			18		
10.	3.08			17		
11.	3.27			18		
12.	3.21			18		
13.	3.41			18		
B.M.	3.83	El. 58.57			White Oak	East Sta 13
14.	3.59			19		
15.	4.02			21		
16.	4.17			22		
17.	4.02			22		
18.	3.58			21		
19.	3.65			20		
20.	3.56			20		
21.	3.58			20		
22.	3.38			19		
23.	3.62			20		
24.	3.92			21		
25.	4.89			25		
26.	5.20			28		

Fall $\frac{57}{100}$ per 100' - p

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
27	5.01			28		
BM.	5.80	El. 57.82		Elm	26 + 90	
28.	5.16			28		
29.	4.52			27		
30.	4.94			26		
31	5.27			28		
32.	5.08			30		
33.	5.89			32		
34	5.76			33		
35	5.70			32		
36	6.70			33		
37	5.81			34		
38	5.55			32		
39	4.84			29		
40	5.40			30		
41	5.28			39		
42	4.74			35		
43	4.42			30		
44	3.99			29		
45	3.95			29		
46	4.14			30		
47	3.36			18		
BM	5.40	El. 42.38			Bar Oak. 42 + 50	S. bank ditch
48	4.38			22		
49	5.74			22		
50	7.02			23		
51	7.42			23		
52	3.33			20		
53	3.27			20		Enters Main ditch at Sta 0 + 25'

Fall 5 1/2" per 100'

X

18 1/2" per 100'

1151

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
Crum No 1 to Crum No 1.						
0.	3.02					
1.	2.67			16		
2.	2.77			15		
3.	3.21			16		
4.	3.27			16		
5.	2.00			15		
6.	2.08			12		
7.	2.41			13		
8.	2.65			14		
9.	2.69			15		
10.	2.96			15		
11.	3.58			16		
Bill.	6.58	6.5768			Wild cherry	30' south sta 12
12.	3.54			20		
13.	4.98			24		
14.	4.80			24		
15.	5.27			28		
16.	5.42			30		
17.	4.61			28		
18.	5.28			25		
19.	4.52			27		
20.	4.85			27		
21.	4.34			25		
22.	3.32			21		
22+35'	2.46			L		Expatries into Crum No 1 at sta 46+60
Bill	4.59	6.4238		448		

79/100

x

Fall 6/100

Bill 4.59 6.4238
 Crum No 1 S. bank Crum No 1 -
 at Sta. 47+50

PROFILE PAPER.

No. of Station,	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
	Arroyo No 2. to Arroyo No 1.					
BM	4.48	El. 46.18				Walnut 50' East Sta 0.
0	2.64					
1	2.73			13		
2	3.93			13		
2+69	4.42			13		Empty into Arroyo No 1 at Sta 43
				39		cy
	Arroyo No 3 to Arroyo No. 1					
0	2.82					
1	3.14			14		
2	3.71			16		
3	3.84			18		
4	2.94			16		
5	3.29			14		
6	3.38			16		
7	4.03			17		
8	4.51			20		
8+97	4.42			2		Empty into Arroyo No 1 at Station 43
				133		cy

PROFILE PAPER.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
<i>Arm No 4 to Arm No 1.</i>						
0.	2.50					
1.	2.45			12		
<i>B.M.</i>	2.92	<i>El. 42.29</i>				<i>Mail in fence post 10' W. line ditch Sta 1+33</i>
2.	2.36			11		
3.	2.45			11		
4.	3.18			13		
5.	4.27			17		
6.	5.05			22		
7.	4.67			23		
8.	4.61			22		
<i>8+28.</i>	4.27			21		<i>Arm No 1 to Arm No 4. enters,</i>
9.	4.13			19		
10.	4.94			21		
11.	5.04			23		
				<i>215</i>		<i>cu. empties into Arm No. 1 at Sta 4+1</i>
<i>Arm No 1 to Arm No 4</i>						
<i>B.M.</i>	3.39	<i>El. 44.69</i>				<i>Wh. 70' East of Sta 0.</i>
0.	2.59					
1.	2.79			12		
2.	2.86			13		
3.	3.76			13		
<i>3+84</i>	3.84			13		<i>empties into Arm No 4. at Sta 8+28</i>
				<i>51</i>		<i>cu.</i>

No.	NAMES.	DESCRIPTION OF LANDS.	Section	T.P.	Range	Acres Assessed		Acres Benefitted		Amt. of Assessm't		Totals	
						A	Hun.	A	Hun.	\$	Cts.	\$	Cts.
	J.W. [unclear]	Pt. of the S 1/2 of the N 1/2 of NW 1/4	4	19	4		18		57.00		57.00		
	J.H. Reap.	Pt NW 1/4 NE 1/4	4	19	4		13		39.00				
	Do	NE 1/4 SE 1/4	4	19	4		40		240.00		279.00		
	Thomas Brandenburg	Pt. SE 1/4 NW 1/4	4	19	4		18		90.00		90.00		
	Alice M. Wilson	Pt SE 1/4 NW 1/4	4	19	4		5		25.00		25.00		
	J.S. & S.W. McConnell	Pt. W 1/2 NE 1/4	4	19	4		48		220.00		220.00		
	J.S. McConnell	Pt SE 1/2 NE 1/4	4	19	4		50		250.00		250.00		
	Nancy McConnell	Pt NE 1/4 NE 1/4	4	19	4		3		9.00		9.00		
	S.J. Newby	Pt SE 1/2 SW 1/4	4	19	4		9		27.00		27.00		
	Louisa Newby	Pt NW 1/4 SE 1/4	4	19	4		30		150.00				
	Do	Pt SW 1/4 SE 1/4	4	19	4		5		15.00		165.00		
	William McConnell	Pt. SE 1/4 SE 1/4	4	19	4		14		70.00		70.00		
	V.E. Buzan	SW 1/4 NW 1/4	3	19	4		40		200.00				
	Do	Pt SE 1/4 NW 1/4	3	19	4		30		150.00		105.00		
									90.00		210.00		
									This assessment has been reduced 1/2 by order of the board of Commissioners				
	E. Jennings	NW 1/4 SW 1/4	3	19	4		40		72.00				
	Do	Pt. SW 1/4 SW 1/4	3	19	4		28		28.00		100.00		
	E.P. Hunt	NE 1/4 SW 1/4	3	19	4		40		40.00		40.00		
	D.P. Hunt	SE 1/4 SW 1/4	3	19	4		40		40.00		40.00		
	A.W. Evans et al.	Pt N 1/2 of NW 1/4	10	19	4		18		18.00		18.00		
	Peter Krower	Pt N 1/2 NW 1/4	10	19	4		20		20.00		20.00		
	J.W. [unclear]	Pt SE 1/4 NW 1/4	10	19	4		20		20.00		20.00		

No.	NAMES.	DESCRIPTION OF LANDS.	Section	Tp.	Range	Acres Assessed		Acres Benefited		Amt. of Assesment		Totals			
						A	Hun.	A	Hun.	\$	Cts.	\$	Cts.		
	Charles Reasoner	pt NW 1/4 NE 1/4	10	19	4			40			10	00			
	do	pt SW 1/4 NE 1/4	10	19	4			40			20	00	30	00	
	Jacob Reasoner	pt NW 1/4 SE 1/4	10	19	4			30			15	00	15	00	
	Jackson Township	Public Highway E/W Cut	4	19	4						\$	25	00		
	do	" " N/S Cut NE 1/4	4	19	4							20	00		
	do	" " N/S Cut SE 1/4	4	19	4							25	00		
	do	" " Between	7	10	19	4						10	00		
	do	" " N/S Cut	10	19	4							10	00	9	00
										Total Assessment		\$	177	200	
										Re-adjusted assessment		\$	166	700	

STATE OF INDIANA, HAMILTON COUNTY, SS:

We the undersigned Drainage Commissioners of Hamilton County, Indiana, to whom was referred the above entitled petition for report after being each duly sworn upon his oath says, that we have each personally examined each tract of land as above set out in this report and that we have examined the whole line and route of the proposed drain and that ~~no~~^{no} other lands than that above 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.

*** W. S. Clark
VIEWERS**----- Jess Kellars

L. J. Nottingham
Engineer & Cor'r

Subscribed and sworn to before me this 31 day of Aug 1909

W. M. Dargill
Auditor of Hamilton County.