

Drain: DUNSHAW AND HEILEY **Drain #:** 321
Improvement/Arm: _____
Operator: J. LIVINGSTON **Date:** 1-16-04
Drain Classification: Urban/Rural **Year Installed:** 1908

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

JWJ
SEM/JWJ

JWJ

J SEM
JWJ
JWJ

**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: WINSTON AND HEILEY

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
TILE	10"	615'	615'		3. ⁰⁰ /lf	1845. ⁰⁰
	14"	1135'	1135'		4. ²⁵ /lf	4823. ⁷⁵
	15"	2200'	2200'		5. ⁰⁰ /lf	11,000. ⁰⁰
ARMED-TILE	8"x2	1600'	1600'		2. ⁰⁰ /lf	6400. ⁰⁰

Sum: 5550' 5550' \$24,668.75

Final Report: _____

Comments:

IN THE MATTER OF THE BARCLAY HENLEY ET AL
DRAIN: MUTUAL AGREEMENT.

THIS AGREEMENT and subscription witnesseth that whereas the undersigned desire the construction ^{of a drain} over and along the route set out in the plans and specifications and the profile which are attached hereto and form part, we each agree to pay the amounts set out herein toward the construction of said ditch and the consideration for our subscription herein is the construction and completion of said drain and the mutual agreements of each other herein.

The amounts herein mentioned to be paid without relief from valuation and appraisement laws of Indiana, and to be due and payable three months after the completion of the ditch.

In order that ^{and} it is now understood and agreed that Emma Newby James T. Hinshaw shall be and are hereby appointed as our agents to advertise for bid, to contract for same, to supervise the construction and to accept the same when completed, and to collect the assessments herein agreed to be paid. It is agreed by us that the amounts herein agreed to be paid shall be and constitute a lien on our respective ^{respective} parcels of real estate benefited by said drain the same as a ^{present} lien or assessment made in ditch established by Court. ^{We also} agree that when said drain shall have been constructed and completed we each agree to keep up and in repair our respective proportion of said ditch in a manner that will be fair and equitable to all parties concerned

We agree to pay the following amounts to wit:

PLANS AND SPECIFICATIONS OF DRAIN REFERRED TO IN .

THE ATTACHED CONTRACT -----

LOCATION.

Begin 60 rods south and 164 feet west of north west corner of east half of the south west quarter section 16, township 18, range 3 east, run thence south 85 degrees east 900 feet, thence south 65 degrees east 200 feet, thence south 10 degrees east 240 feet, thence ~~xxxxx~~ east degrees north 960 feet, thence south 56 degrees east 400 feet, thence south 15 degrees east 800 feet, thence 55 degrees east 500 feet, thence south 64 degrees east 500 feet, thence 73 degrees east 200 feet, thence south 68 degrees east to terminus.

REQUIREMENTS.

Main ditch to consist of one row of ten inch tile from station 0 to station 6 plus 15, and one row of fourteen inch tile from station 6 plus 15 to station 17 plus 50 and one row of 15 inch tile from station 17 plus 50 to station 39 plus 50 and one row of sixteen inch tile from station 39 plus 50 to station 54 plus 23, and one row of 16 inch sewer tile from station 54 plus 23 to station 54 plus 33.

ARM NUMBER 1.

Beginning 13 rods north of the south west corner of the east half of the north east quarter of section 16, township 18, range 3 east, run thence south 900 feet, thence south 39 degrees east 700 feet, terminating in Main ditch at station 6 plus 15 of said Main ditch, said arm to consist of two rows of eight inch tile from station 0 to station 16 or terminus.

All of which arm is now in place and known as a part of the John Ortwine ditch and which arm is accepted as sufficient and which is hereby made a part of the Barclay Henley drain.

STONEWALL.

At station 54 plus 33, on Main ditch there is to be constructed a stone retaining wall 22 feet long 6 feet high and $1\frac{1}{2}$ feet thick, said wall to be constructed to conform with drawings as made by surveyor, said wall to be built from common field rock and laid up in mortar made from one part Portland Cement and three parts clean sharp sand and so constructed as to receive the tile at the proper grade, 18 inches above the base of the wall.

LAYING TILE FILLING DITCH ECT

All tile used in the construction of the ditch to be laid in ditch in a true line with the joints well matched and at proper grade as shown by profile as made by surveyor and to be left uncovered until inspected and accepted by the engineer or superintendent in charge of construction. After same has been accepted to be covered with earth to a depth of two feet where the ditch runs in the old channel and where ditch is new cut the trench to be filled full.

All trees to be deadened and all bushes to be cut for a distance of twenty five feet on each side of the ditch; all work to be done in a first class workmanlike manner and to the satisfaction of the engineer or superintendent in charge of construction.

GENERAL SPECIFICATIONS.

Length of Main ditch 5460 feet, length of tile in place and accepted 1600 feet: length of new tile ditch 5433 feet.

FALL OF ESTIMATED GRADE

From station 0 to station 2, 1 foot to 100 feet. From station two to station 17 $\frac{4}{10}$ to 100 feet. From station 17 to station 24 $\frac{71}{100}$ feet to 100 feet: from station 24 to station 45 $\frac{35}{100}$ feet to 100 feet: From station 45 to station 54 plus 60 $\frac{44}{100}$ feet to 100 feet.

CONNECTING BOX.

At station 6 plus 15 there shall be constructed a concrete connecting box in line of main ditch to receive and connect the two rows of eight inch tile of Arm number 1 to Main ditch.

Dimensions of said Box to be two feet long by 18 inches deep and 18 inches wide inside measurement: same to be constructed in suitable forms to hold concrete in place until firmly set.

Concrete to be made from one part Portland Cement to three parts clean sharp sand, said Box to have walls and floor four inches thick and to be covered with slab of concrete four inches thick by 26 inches wide and 32 inches long: Said lid or cover to be composed of concrete of same proportions as Box proper and re-enforced with twelve lengths of barbed wire laid lengthwise and twelve lengths of barbed wire laid across in the slab: slab to be made in suitable forms and let remain in forms until concrete is thoroughly set before placing on connecting Box.

CATCH BASIN.

At station 39 plus 50 there is to be constructed a catch basin five feet high by

On Main ditch from station 0 to station 1 plus 64 contractor will be required to take up the ten inch tile already in place and replace them to grade indicated on profile as made by surveyor.

GENERAL REQUIREMENTS.

Where angles or bends occur in the old channel the contractor shall vary the course of the new ditch so that the curve of the line of tile shall not have less than a 50 foot radius. At or new station 39 the course of the ditch shall leave the old channel so as to cross the highway east of the culvert now in place and not to return to the old channel until near station 41.

Between station 17 and station 19 the course of the new ditch shall vary from the old channel so as to cross the highway either north or south of culvert.

No. Station	Depth of Cut	Cubic Yards
0	205	
1	248	10
2	387	15
3	485	13
4	538	8
5	474	8
6	482	8
7	537	7, 1/2
8	538	7
9	457	6
10	567	8
11	422	10
12	441	10
13	490	8, 1/2
14	488	7

15	461	6
16	524	7
17	498	8
18	498	8, 1/2
19	507	8
20	485	8, 1/2
21	596	8
22	356	7, 1/2
23	602	8, 1/3
24	553	10
25	543	11
26	506	12
27	537	12
28	567	13
29	542	10
30	528	10
31	456	10
32	522	10
33	522	10, 1/2
34	514	12
35	313	12
36	469	12, 1/2
37	445	13
38	421	12, 1/2
39 436x	436	12, 1/2
40	412	13
41	455	23
42	458	23
43	437	11
44	394	12
45	387	13
46	460	14
		11

47	423	10
48	485	9
49	441	10
50	394	9
51	419	9
52	385	8
53 2	384	10
54	392	7
54 plus 33	258	end of tile
54 plus 80	120	end of Di tch at Williams creek
		560
		6 stone wall

DIRECTIONS—Elevate the metal points, catch the manuscript when bent the points down flat—dash the framed flat and stick it down—this fastens the papers and hides the metal.

In the Matter of
The J. J. Kerishaw & Co
Deceit
Report of Viewers
Or
Examiner

Viewers
of the
deceit
of the
said
J. J. Kerishaw & Co
in the
matter of
the
said
deceit

OCT - 3 1908

STATE OF INDIANA

SS:-

HAMILTON COUNTY

IN THE MATTER OF THE

James F Hinshaw 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 Washington and Clay Townships, Hamilton County, Indiana, would respectfully report to the Board that as directed by the order and mandate of said Board, they met at the time and place set out in the order to view, on the 30th. day of September 1908. and proceeded to make the necessary surveys and personal

inspection of the lands named in the petition and such other lands as would likely be affected by the proposed drain. We find that the drainage as proposed will be of public utility.

We would show to the Board that we have definitely determined the best and cheapest method of draining said lands; that we have fixed the route location and character of the proposed work and fixed the same by metes and bounds, courses, distances, descriptions, grades and bench marks so as to provide for the complete drainage of the lands affected by the proposed work; that we have divided the work into sections of not more than 100 feet each and have computed and set out the number of cubic yards of excavation in each station and assessed the benefits or damages as the case may be to each separate tract of land and to the proper Township where highways are benefitted; we have fixed the beginning and outlet of said drain so as to secure the best results and have run the line of said ditch so as to secure the best results and cause the least possible injury to the lands affected and so as to benefit the highways.

We would further report the work as proposed will be practicable and that the cost will be less than the benefits.

to conform to the conditions of the ground. Catch basins shall be set to a depth of 18 inches below the grade of the ditch.

STONE WALL.

At Station 54+33 a stone or concrete retaining wall shall be built 24' X 5' X 1½' Wall to be built to the plan of the Engineer and set at such grade as to receive the tile at proper grade 18 inches ~~below~~ above the base of the wall.

- Y- Connections,

At Station 6+15 on the Main Ditch to be placed a Y connection 10 inches by 12 inches by 14 inches also an 8" X 8" X 12" Y connection shall be placed in the line of both the Ortwine Ditch connecting same to the main ditch.

Open Portion

The open part of the ditch shall be straightened and cut 1½ feet wide in the bottom with side slopes of 1 to 1 or 45° and all earth excavated shall be deposited on the bank not nearer than two feet from the break of the banks. 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.

GENERAL SPECIFICATIONS.

Total length of ditch,-----	6950 feet.
Length of Main tile ditch,-----	5433 feet.
Length of Ortwine Arm,-----	32 feet.
Length of open part of Main Ditch,-----	1067 feet.
Length of open arm,-----	450 feet.

Laying Tile, Filling Ditch, Clearing etc. . .

All the tile used in the construction of the ditch to be first class tile subject to the inspection of the Superintendent in charge of the work and shall be laid in the trench in a true line with joints well matched and at proper grade as shown on the profile hereto attached and made a part of this report and left uncovered until inspected by the Superintendent in charge of the work after which the trench shall be filled full where trench is new cut and where ditch follows in old channel the tile shall be covered to a depth of two feet.

ESTIMATED COST.

64 feet of 8" drain tile,-----	\$ 3.07
451 feet of 10" drain tile,-----	\$29.78
1135 feet of 14" drain tile,-----	\$170.25
2200 feet of 15" drain tile,-----	\$363.00
1473 feet of 16" drain tile,-----	\$279.87 <i>1595</i>
10 feet of 18" sewer tile,-----	\$ 6.00
Stone wall 24'X 5'X 18',-----	\$ 30.00
Two catch basins-- One at each road crossing,-----	\$ 35.00
Two "Y" connections for Ortwine tile,-----	\$ 4.00
726 cubic yards of excavation,-----	\$173.51
Laying tile, filling ditch, clearing etc. -----	\$ 75.00
Total,-----	\$1169.46

LOCATION.

Begin 60 rods south 164 feet west of the north west corner of the ^{11.25} east $\frac{1}{2}$ of the south ^{27.25} west $\frac{1}{4}$ of Section 16. Township 18, Range 3 East run thence S 85° E 900 feet, thence S 65° E 200 feet, thence S 10° E 240 feet, thence East 960 feet, thence S 56° E 400 feet, thence S 15° E 800 feet, thence S 55° E 500 feet, thence S 64° E 500 feet, thence S 73° E 200 feet, thence S 68° E to point where ditch enters open drain known as Williams Creek, Thence following in the channel of said Williams Creek 1067. THIS IS PART OF CHAS. O'CONNOR DRAIN

Chas. O'CONNOR DRAIN

Arm No. 1. Begin 392 feet east of the SE corner of the SW $\frac{1}{4}$ of ~~the~~ Section 15 Twp. 18 Range 3 East running thence in the channel of the old open ditch a distance of 450 feet intersecting the main ditch at Station 54+60 of said main ditch.

RE QUIREMENTS.

Main Ditch to consist of one row of 10" drain tile from Station 0 to Sta. 6+15, 164 feet of which are now in place but which shall be taken up and replaced to grade as shown on profile. One row of 14" drain tile from Sta. 6+15 to Sta. 17+50 and one row of 15" drain tile from Sta. 17+50 to Sta. 39+50 and one row of 16" drain tile from Sta. 39+50 to Sta. 54+23 and one row of 18" sewer tile from Sta. 54+23 to Sta. 54+33 or terminus of tile portion of ditch and an open ditch 18 inches wide in the bottom from Sta. 54+33 to Station 65. Also 64 feet of 8" drain tile and two "Y" connections for connecting Ortwine Ditch. Also an open arm 18" wide in the bottom 450 feet long beginning at the bridge over Williams Creek on the Township line and entering the Main Ditch at Station 54+60 of said Main Ditch.

CATCH BASINS.

Near Station 17+50 ~~and~~ where Ditch crosses highway and ~~also~~ where ditch crosses Township line Catch basins are to be constructed in the line of the ditch. Said catch basins to be built of concrete mixed one part portland cement to 5 parts clean sharp sand and gravel Walls to be not less than 6" in thickness. Catch basins to be 36 inches in diameter inside measurement and be laid up in suitable forms and covered with iron ring and open cover of the Ellwood County Survey pattern, eight of basins

No.	NAMES	DESCRIPTION OF LANDS	Section	T _P	Range	Acres Assessed		Acres Revalued		Amt. of Assessment		Totals	
						Δ	Hun	Δ	Hun	Δ	Cts.	Δ	Cts.
	James Meirshaw	Pt SW	SW	15	18	3	20 ⁰⁰						
	Do	" SE	SW	15	18	3	32 ⁰⁰						
X	Do	" "	"	15	18	3	8 ⁰⁰						
	Do	Pt NE	NW	22	18	3	18 ⁵⁰						
		Pt NW	NE	22	18	3							
X	Do	Pt NW	NE	22	18	3	1 ⁰⁰						284 ⁵⁰
	Elmer Edson	Pt NW	NW	22	18	3	2 ⁵⁰						18 ⁰⁰
	A.W. Meirshaw	Pt NE	NW	22	18	3	3 ⁰⁰						122 ⁰⁰
		Pt NW	NE	22	18	3							
X	Lelay Surr	Surr line bet $\frac{17}{22}$		18	3		1						15 ⁰⁰
X	Washington Surr	Highway E to W cent		16	18	3							25 ⁰⁰
		" N to S bet $\frac{15}{16}$		18	3								
		" E to W cent $\frac{15}{16}$		18	3								
		" E to W bet $\frac{9}{16}$		18	3								
		" E to W " $\frac{15}{32}$		18	3								10 ⁰⁰
<hr/>													
	Ed Davis	SW	SW	10	18	3	40						465
	Do	Pt SE	SW	10	18	3	6 ⁵⁰						
	Ollie Carey	Pt NW	SW	10	18	3	5 ⁰⁰						50
	Jane Britton	Pt E $\frac{1}{2}$	SW	10	18	3	17 ⁰⁰						170
	I. F. Kittinger	Pt E $\frac{1}{2}$	SW	10	18	3	1 ⁰⁰						10
	S. A. Clark	Pt SE	SW	10	18	3	11 ⁰⁰						120
	A. W. Clark	Pt NE	SW	10	18	3	4 ⁰⁰						40
	M. A. Reynolds	Pt NW	SE	10	18	3	10 ⁰⁰						100
	L. M. Morgan	SW	SE	10	18	3	40 ⁰⁰						400

No.	NAMES.	DESCRIPTION OF LANDS.	Section	Tp.	Range	Acres Assessed		Acres Benefited		Amt. of Assessm't		Totals	
						A	Hun.	A	Hun.	\$	Cts.	\$	Cts.
	John Brouette	Pt NE	SE	10	183	4	00						40
	Narsus Clark	Pt SE	SE	10	183	35	00						3 50
	Frank Clark	Pt SE	SE	10	183	1	00						10
	Chas R Heber	Pt NE	NE	15	183	10	00						
	do	NW	NE	15	183	40	00						
	do	PSW	NE	15	183	30	00						
	do	SE	NW	15	183	40	00						
	do	NE	NW	15	183	40	00						16 00
	W H Morris	NW	NW	15	183	40	00						
	do	SW	NW	15	183	40	00						8 00
	Lena Maxwell	Pt NE	SW	15	183	20	00						2 00
	Francis Kershaw	Pt SE	SE	15	183	5	00						
		SW	SE	15	183	40	00						8 50
		NW	SE	15	183	40	00						
		NE	SE	15	183	40	00						
	E. Braashaw												15 00

Begun by J. H. ...
 1400 S 7th Street
 392 East 9th Street
 Noblesville, Ind.

No.	NAMES.	DESCRIPTION OF LANDS.	Section	T _p	Range	Acres Assessed		Acres Benetted		Amt. of Assessm't		Totals	
						A	Hun.	A	Hun.	\$	Cts.	\$	Cts.
	Simon M Davis	Pt NW	SW	16	183	7	00					8	34
	John Studer	Pt NE	SW	16	183	37	50					60	75
	do	Pt SW	NW	16	183	14	00						
	Thomas Crave	Pt SE	SW	16	183	3	00					10	71
	William Kenley	NW	SE	16	183	40	00					162	40
	do	Pt SW	SE	16	183	10	00						
	Frank & Mary Perkins	Pt SE	NW	16	183	7	00					9	95
	John Perkins John Hinchman	Pt SE	NW	16	183	8	00					11	40
	Geo Orwinn	Pt SW	NE	16	183	18	00					25	73
	Emma Orwinn	E 1/2 SW	NE	16	183	20	00					40	00
	Elizabeth Orwinn	E 1/2 NW	NE	16	183	20	00					40	00
	William Orwinn	Pt NE	NE	16	183	10	00					23	30
x	do	Pt NE	NE	16	183	30							
	Emma Newby	Pt SE	NE	16	183	27						81	97
x	do	Pt SE	NE	16	183	13							
x	do	Pt NW	SW	15	183	5	50						
	do	" "	"	15	183	14	50						
	A J Dobbin	Pt NE	SE	16	183	20	00					60	90
	Jennie M Dobbin	Pt NE	SE	16	183	20	00					60	
	do	Pt SE	SE	16	183	20	00					162	
	Geo T Fisher	Pt SW	SE	9	183	2	00						
x	do	Pt SE	SE	9	183	18	00					4	37
	Ettall M Newby	Pt NE	SW	15	183	5	50						
x	do	" "	"	15	183	14	50						
	do	Pt W 1/2 W 1/2	SW	15	183	25	00						
x	do	Pt NW	SW	15	183	10	00					126	00