

Kenton C. Ward, CFM  
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Suite 188  
One Hamilton County Square  
Noblesville, Indiana 46060-2230

April 16, 2019

To: Hamilton County Drainage Board

Re: Reconstruction of a portion of the Section 1 Arm of the Anchorage Regulated Drain

Attached is a drain map and petition for the re-construction of a portion of the Anchorage Regulated Drain in the Anchorage Subdivision. The portion of the regulated drain to be reconstructed is located in Fall Creek Township, Section 10, Township 17 North, Range 5 East.

#### History

The Section 1 Arm of the Anchorage Regulated Drain was constructed in 1991. The portion of the drain to be reconstructed is presently a 6" SSD installed in 1991. Approval for maintenance of the Section 1 Arm of the Anchorage Drain was granted by the Drainage Board on June 17, 1991 (see Hamilton County Drainage Board Minutes Book 2, page 538)

There is a chronic issue of standing water and poor drainage at the rear of Lots 60, 61, 62, 64, 65, 67, 68, and 69. These poorly drained areas have no positive outlet and hold storm water runoff during and after storm events. This is a chronic and persistent issue that the property owners have had to deal with since purchasing the properties. The areas that hold water have stagnated and cannot be maintained or enjoyed by the property owners. The conditions have resulted in the death of many of the trees and it is not possible to establish stands of grass in these areas.

The reason the conditions exist is not apparent. The likely reason is that the installation of proper drainage infrastructure in the rear yards would have resulted in the undesirable removal of many trees by the Developer. Most property owners inherited this issue when purchasing the properties. There is a regulated drain in the rear yards. This regulated drain is a 6-inch diameter sub-surface drain that does not have capacity to adequately convey surface storm water runoff. Such drains are also prone to root clogging and require frequent maintenance to remain effective. The regulated drain is also on the north side of a ridge. The ridge prevents surface water from the lots south of the ridge from entering the drain.

There have been five drainage complaints filed with the Hamilton County Surveyor's Office for this area since 2002.

Drainage Complaint Number	Date of Complaint	Property Address	Complaint	Status of Investigation
DC-2002-00062	3/11/2002	10210 Summerlin Way	Standing Water	Completed
DC-2011-00135	4/20/2011	12421 Anchorage Way	Standing Water	Completed
DC-2016-00240	7/9/2016	10200 Summerlin Way	Drain Clogged	Completed
DC-2017-00069	3/3/2017	10138 Summerlin Way	Standing Water	Completed
DC-2018-00090	4/3/2018	10188 Summerlin Way	Standing Water; Drain Clogged	Completed

There have been four work issued by the Hamilton County Surveyors Office for this area since 2002 with a total value of \$3,245.88.

Work Order Number	Amount	Property Address	Status
WO-2002-00036	\$ 1,008.88	10210 Summerlin Way	Completed
WO-2011-00159	\$ 375.00	12421 Anchorage Way	Completed
WO-2016-00232	\$ 932.00	10200 Summerlin Way	Completed
WO-2017-00355	\$ 930.00	10275 Summerlin Way	Completed

The Anchorage Drain Shed consists of 21.93-acres and 70-lots.

At the September 26, 2016 meeting of the Drainage Board, the maintenance assessments were increased as outlined in the Maintenance of Drain section of this report (see Hamilton County Drainage Board Minutes Book 17, pages 127-128).

On June 28, 2018, the Hamilton County Surveyor's Office received a petition dated May 21, 2018 from 9 property owners within the Anchorage.

The Surveyor's Office and the Hamilton County Drainage Board held a public information meeting with the affected property owners on December 4th, 2018 to discuss the project and how to fund the project.

#### Project Description

The project includes construction of the following: 443-LF of 12" Dual Wall HDPE tile; 44-LF of 6" Dual Wall HDPE tile; 7, 6" Dual Wall HDPE tile stubs; 10, 6" HDPE tile caps; 5, 2'x2' precast inlets with casting; 12 connections of the existing tile to the new tile; 125-CY of topsoil; clearing, including the removal of one large tree and portions of an existing landscaping wall; erosion control measures including 105-LF of tree protection fence, 60-LF of 12" diameter fiber rolls; mulched seeding, and inlet protection; and restoration of the existing landscape wall.

The intent of the design is to provide a positive outlet to the existing poorly drained area at the rear of the lots to facilitate drainage of surface runoff. The existing 6" SSD is connected to a

structure on Lot 65 (identified as Structure 1100 on the Construction Plans). This Structure is drained by a 12-inch reinforced concrete pipe. This 12" tile outlet dictated the size of the proposed tile and is the largest tile that could be installed. Five new inlets (Structures 601, 602, 603, 604, and 605 on the Construction Plans) are proposed at existing low areas along the alignment and where the new tile changes alignment.

The new tile does not follow the alignment of the existing 6" SSD due to the location of the low areas and to avoid several existing mature trees at the rear of Lot 67.

Shallow slope surface swales are proposed along the alignment to direct runoff to the new inlets. These surface swales will be constructed as the trench to install the tile is backfilled.

During rain events where the capacity of the new tile is exceeded, runoff will continue to collect and pond in the area along the rear of lots 60, 61, and 62 due to the existing ridge along the property line. The length of time that water stands in this area will be greatly reduced from the existing condition due to the proposed positive outlet.

The existing 6" SSD will be connected to the new tile or the new inlets in all instances where the 6" SSD crosses the new tile. Several private yard drains will be connected to the new tile as the tile is installed to provide an improved outlet to these private drainage systems.

#### Easements

No additional easements are required for the project. The new drain will be constructed in existing platted drainage and drainage and utility easements. The easements per the plat for the Anchorage, as recorded in the office of the Hamilton County Recorder as Instrument No. 9117550, P.C. No. 1, Slide No. 173, that will be utilized are as follows:

- Variable Width Drainage Easement on the south side of Lots 69, 68, 67, and 65
- 15' wide Drainage Easement on the north side of Lots 60, 61, and 62
- 15' wide Drainage and Utility Easement on the east side of Lot 57

#### Permits

No permits from Federal or State Agencies are required for this project.

#### Project Cost

Line Item	Item Description	Quantity	Unit	Unit Cost	Total Cost
1	Clearing	0.3	Acre	\$5,000.00	\$1,500.00
2	Large Tree Removal	1	EA	\$2,500.00	\$2,500.00
3	Disposal of Excess Soil Material	130	CYS	\$25.00	\$3,250.00
4	Tree Protection Fence	105	LF	\$2.00	\$210.00
5	Core Drill Existing Structure	1	EA	\$1,000.00	\$1,000.00

6	Landscape Wall Removal and Restoration	1	LS	\$2,000.00	\$2,000.00
7	Mulched Seeding	0.3	Acre	\$9,750.00	\$2,925.00
8	Inlet Protection	5	EA	\$140.00	\$700.00
9	12" Diameter Fiber Rolls	60	LF	\$7.00	\$420.00
10	12" Dual Wall HDPE Tile	443	LF	\$50.00	\$22,150.00
11	6" Dual Wall HDPE Tile	44	LF	\$25.00	\$1,100.00
12	6" HDPE Caps	10	EA	\$75.00	\$750.00
13	6" Dual Wall HDPE Stubs	7	EA	\$50.00	\$350.00
14	2'x2' Precast Inlets W/Casting	5	EA	\$3,000.00	\$15,000.00
15	Topsoil	125	CY	\$70.00	\$8,750.00
16	Yard Drain and Regulated Drain Connection Inside Trench	8	EA	\$500.00	\$4,000.00
17	Yard Drain Connection Outside Trench	4	EA	\$250.00	\$1,000.00
Subtotal					\$67,605.00
15% Contingency					\$10,140.75
Total					\$77,745.75

### Project Funding

This project is considered a reconstruction project. While assistance is being sought by the City of Fishers, it is customary for reconstruction projects to be funded by a special assessment to either the properties within the watershed of the drain or to those properties that directly benefit from the reconstruction project.

State Law does allow the use of monies from the drain's maintenance fund (up to 75% of the balance in the fund) for reconstruction projects. However, the current balance of the maintenance fund for the drain is in the red \$10,852.46 due to the maintenance fund being utilized to fund the reconstruction project along Brooks School Road in 2017 as well as other recent maintenance on the drain. The drain collects \$4,878.96 per year from maintenance assessment.

There are 8 property owners that benefit from the project. Dividing the construction cost by the number of properties results in a per property assessment of \$9,718.22.

Dividing these costs by the acreage of each property that will drain to the new tile, the following assessments would be necessary using a rate of \$17,589.63 per acre.

Property	Area (acres)	Assessment
Lot 69	0.66	\$11,609.09



Lot 68	0.50	\$8,794.77
Lot 67	0.54	\$9,498.35
Lot 65	0.50	\$8,794.77
Lot 64	0.52	\$9,146.56
Lot 62	0.55	\$9,674.24
Lot 61	0.52	\$9,146.56
Lot 60	0.63	\$11,081.40
Total	4.42	\$77,745.75

An updated report will be provided to the Board when the participation from the City of Fishers is finalized and the final assessment roll is developed.

I believe no damages will result to the landowners. Damages are set at zero (0).

#### Changes to the Drain

The length of the drain will be increased by 487-feet. This increase consists of 443-LF of 12" Dual Wall HDPE tile and 44-LF of 6" Dual Wall HDPE Tile.

The 7, 6" Dual Wall HDPE Pipe stubs are 2-feet in length for connections to inlets by the property owners. The actual length of pipe stubs may vary when installed. These pipe stubs are not considered part of the regulated drain. The yard drain connections per line items 16 & 17 are considered ancillary to the project and will not part of the regulated drain.

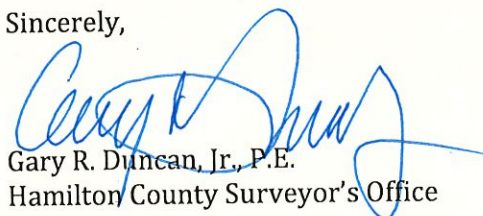
#### Maintenance of Drain

The Anchorage Drainage shed consists of 21.93 acres and 70 lots. At the September 26, 2016 Board meeting the Board increased the maintenance assessment rates to the following:

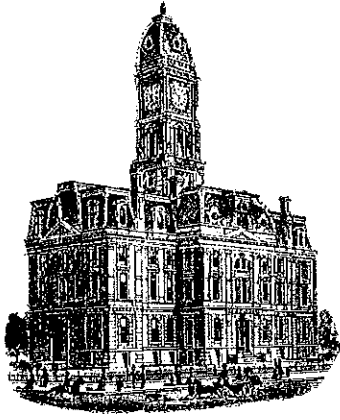
1. Maintenance assessment for platted lots within subdivisions be set at \$65.00 per lot/minimum. Common areas set at \$10.00 per acre with a \$65.00 minimum.
2. Maintenance assessment for roads and streets be set at \$15.00 per acre.
3. The above rates will collect \$4,878.96 annually for the drain.
4. The collection period was also increased from 4 times the annual assessment to 8 times the annual assessment as allowed under IC-36-9-27-43.

I recommend that the Board set a hearing for this proposal May 28, 2019.

Sincerely,

  
 Gary R. Duncan, Jr., P.E.  
 Hamilton County Surveyor's Office

GRD/pll



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*Noblesville, Indiana 46060-2230*

August 16, 2019

TO: Hamilton County Drainage Board

RE: Anchorage, Reconstruction of Portion of Section 1

At the meeting on August 12, 2019 a report written by Mr. Gary Duncan dated August 6, 2019 was given to the Board recommending the cost breakdown on this project and associated assessments. At that time the Board wanted additional options for payment of this project. Before going into the Options 1 I thought it would be good to recap the given items for this drain and the project.

The Anchorage Drainage Shed consists of 21.93 acres, which is made up of roads and common areas, and 70 lots. The maintenance assessment was increased by the Board at its meeting of September 26, 2016 per my report dated August 11, 2016. The rates increased from \$40.00 per lot, common areas \$5.00 per acre with a \$5.00 minimum and roads at \$10.00 per acre. This assessment brought in \$3,019.30 and at the time of the report the fund balance was \$13,852.44. The approved rates, which are the current rates, are \$65.00 per lot/minimum, common areas \$10.00 per acre with a \$65.00 minimum and roads \$15.00 per acre. The annual collection is \$4,878.96. The period of collections also increased from four (4) years to eight (8) years. Attached to this report is the current assessment schedule.

At its meeting of December 21, 2016, the Board approved the reconstruction of the drain by replacing 6" SSD with 15" storm sewer along the subdivision's west boundary along Brook School Road. The cost of this project was \$59,296.30 of which Fishers paid \$29,648.15. The remaining cost was paid by utilizing 75% of the maintenance fund balance at that time, \$9,690.33 and the rest by using up to \$4,878.96 over a five (5) year period beginning in 2017 from the maintenance fund. Currently the maintenance fund (#246) is \$8,040.53 in the red.

Upon review of the maintenance costs over the last ten (10) years I found the following:

2009-	\$	0.00
2010 -	\$	0.00
2011 -	\$	2,139.61
2012 -	\$	5,418.75
2013 -	\$	0.00
2014 -	\$	0.00
2015 -	\$	0.00
2016-	\$	932.00
2017-	\$	3,992.75
2018-	\$	1,825.50
2019-	\$	<u>0.00</u>
Total	\$	14,309.61

This shows a 10-year average cost per year of \$1,430.86. Using 70 lots and not including roads and commons areas the total cost per lot per year over this time frame is \$20.44.

On May 13, 2019 two bids were received by the Board, both over the Engineer's Estimate. On June 10, 2019 one quote was received for the project in the amount of \$75,625.00. On July 22, 2019, a quote for the additional work associated with the arm to the south was received in the amount of \$29,225.00. Including a 15% contingency, the total cost of the project will be \$120,577.50.

On August 2, 2019, the City of Fishers confirmed by email that through their Grant Program, the City of Fishers can contribute \$49,500.00 to help fund the project.

The balance of the maintenance fund for this drain is -\$8,040.53. The maintenance fund collects \$4,878.96 annually.

With a \$49,500.00 grant from the City of Fishers, the remaining project balance to be funded is \$71,077.50.

The Surveyor believes that no damages will result to the landowners as existing easements will be utilized. Damages are set at zero (0).

Upon consideration of the above parameters the options are as follows:

Option #1 – Do nothing, no costs involved.

Option #2 – Funding the remaining \$71,077.50 through GDIF with repayment from an assessment for the 9-lots that petitioned for the drain reconstruction results in a total cost to each lot as outlined in the table below. These numbers would be adjusted for any interest that is charged dependent upon the interest rate and the repayment term. This is the recommendation in Mr. Duncan's report of August 6, 2019 and is the recommendation of the office.

The Board should note that these amounts are not included in the maintenance assessment examined under each of the following options. The Board should also consider utilizing no more than 75% of the total annual maintenance assessment for each option examined which would increase the assessments annually or increase the period of pay back for the reconstruction.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 9,515.44
68; Pt 67	0.50	\$ 7,208.68
Pt 67	0.54	\$ 7,785.36
65	0.50	\$ 7,208.68

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 7,497.02
62	0.55	\$ 7,929.54
61	0.52	\$ 7,497.02
60	0.63	\$ 9,082.92
59	0.51	\$ 7,352.84

At the August 12, 2019 meeting the Board expressed their wish that the remainder of the \$71,077.50 be split between the 9 lots benefited and the maintenance fund for the Anchorage Drain. The remaining options examine various methods in doing so.

Starting with Option #3 the options include the increase in the maintenance drainage assessment. In doing that calculations for the future maintenance assessments. The Board should consider including the amount, the fund balance is now in the red, \$8,040.53. The Board should also consider the average cost per lot over the last 10 years of \$20.44. The fund balance per lot, not including roads and common areas is \$114.86 per lot.

Option #3 – The balance of the \$71,077.50 be split evenly 50%, between the nine (9) lot owners. This amounts to \$35,538.75 being paid by those benefited and within the overall drainage shed. Below shows the total cost to each lot. These numbers would be adjusted for any interest rate and the repayment term. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 4,757.72
68; Pt 67	0.50	\$ 3,604.34
Pt 67	0.54	\$ 3,892.68
65	0.50	\$ 3,604.34

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 3,748.51
62	0.55	\$ 3,964.77
61	0.52	\$ 3,748.51
60	0.63	\$ 4,541.46
59	0.51	\$ 3,676.42

With the above split \$35,538.75 will be charged to the drainage shed. The lot rate, not including roads and common areas, is \$507.70 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The Board can rise the annual maintenance rate per lot for a one- year payment of \$507.70, not including those factors presented above for the 10- year average cost per lot the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction pay off.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$169.23  
 5 years - \$101.54  
 7 years - \$ 72.53  
 10 years - \$ 50.77

Option #4 – The balance of the \$71,077.50 be split 2/3, \$47,621.92 paid by the nine (9) lot owners and 1/3 \$23,455.58 paid by increase of maintenance assessment for the overall drainage shed. Below shows the total cost to each lot. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 6,375.35
68; Pt 67	0.50	\$ 4,829.81
Pt 67	0.54	\$ 5,216.19
65	0.50	\$ 4,829.81

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 5,023.00
62	0.55	\$ 5,312.79
61	0.52	\$ 5,023.00
60	0.63	\$ 6,085.56
59	0.51	\$ 4,926.41

With the above split \$23,455.60 will be charged to the drainage shed. The lot rate, not including roads and common areas, is \$335.08 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The Board can rise the annual maintenance rate per lot for a one- year payment of \$335.08, not including those factors presented above for the 10- year average cost per lot the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction pay off.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$111.69  
 5 years - \$ 67.02  
 7 years - \$ 47.87  
 10 years - \$ 33.51

Option #5 – The balance of the \$71,077.50 be split 1/3 \$23,455.60 paid by the nine (9) lot owners and 2/3 \$47,621.92 paid increase of the maintenance assessment for the overall drainage shed. Below shows the total cost to each lot. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 3,141.10
68; Pt 67	0.50	\$ 2,378.86
Pt 67	0.54	\$ 2,569.17
65	0.50	\$ 2,378.86

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 2,474.01
62	0.55	\$ 2,616.75
61	0.52	\$ 2,474.01
60	0.63	\$ 2,997.36
59	0.51	\$ 2,426.44

With the above split \$47,622.40 will be charged to the drainage shed. The lot rate, not including roads and common areas, is \$680.32 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The Board can rise the annual maintenance rate per lot for a one- year payment of \$680.32, not including those factors presented above for the 10- year average cost per lot the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction pay off.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$226.78  
5 years - \$136.62  
7 years - \$ 97.20  
10 years - \$ 68.04

Option #6 – The balance of the \$71,077.50 be split  $\frac{1}{4}$ , \$17,769.39, paid by the nine (9) lot owners and  $\frac{3}{4}$ , \$53,307.80, paid by increase of the maintenance assessment for the overall drainage shed. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 2,378.86
68; Pt 67	0.50	\$ 1,802.17
Pt 67	0.54	\$ 1,946.34
65	0.50	\$ 1,802.17

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 1,874.26
62	0.55	\$ 1,982.39
61	0.52	\$ 1,874.26
60	0.63	\$ 2,270.73
59	0.51	\$ 1,838.21

With the above split \$53,307.80 will be charged to the drainage shed. The lot rate, not including roads and common areas, is \$761.54 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The board can rise the annual maintenance rate per lot for a one- year payment of \$761.54, not including those factors presented above for the 10- year average cost per lot the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction pay off.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$253.86  
 5 years - \$152.32  
 7 years - \$108.80  
 10 years - \$ 76.16

Option #7 – The balance of the \$71,077.50 be split  $\frac{3}{4}$ , \$53,308.18, paid by the nine (9) lot owners and  $\frac{1}{4}$ , \$17,770.20, paid by increase of the maintenance assessment for the overall drainage shed. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 7,136.59
68; Pt 67	0.50	\$ 5,406.51
Pt 67	0.54	\$ 5,839.03
65	0.50	\$ 5,406.51

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 5,622.77
62	0.55	\$ 5,947.16
61	0.52	\$ 5,622.77
60	0.63	\$ 6,812.20
59	0.51	\$ 5,514.64

With the above split \$17,769.38 will be charged to the drainage she. The lot rate, not including roads and common areas, is \$253.86 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The Board can rise the annual maintenance rate per lot for a one- year payment of \$253.86, not including those factors presented above for the 10- year average cost per lot the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction pay off.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$ 84.62  
 5 years - \$ 50.78  
 7 years - \$ 36.26  
 10 years - \$ 25.40

Option #8 – The balance of the \$71,077.50 be split by matching the \$49,500.00 grant from Fishers paid by an increase of the maintenance assessment for the overall drainage shed and \$21,577.50 paid by the nine (9) lot owners. Below shows the total cost to each lot. These numbers would be adjusted for any interest rate and the repayment term.

Lot	Lot Size (acres)	Total Cost
69	0.66	\$ 2,888.68
68; Pt 67	0.50	\$ 2,888.40
Pt 67	0.54	\$ 2,363.46
65	0.50	\$ 2,188.40

Lot	Lot Size (acres)	Total Cost
64	0.52	\$ 2,275.94
62	0.55	\$ 2,407.24
61	0.52	\$ 2,275.94
60	0.63	\$ 2,757.38
59	0.51	\$ 2,232.16

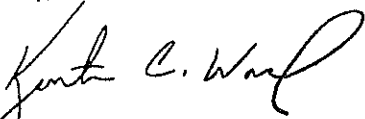
With the above split \$49,500.00 will be charged to the drainage shed. The lot rate, not including roads and common areas, is \$707.14 per lot. With this rate the Board needs to determine the increase of maintenance per lot. The Board can raise the annual maintenance rate per lot for a one year payment of \$507.70, not including those factors presented above for the 10-year average cost per lot, the current fund balance, which is in the red, and using 75% of the annual assessment for the reconstruction payoff.

The Board may wish to consider paying this amount off over an extended period of time. Below are options for 3 years, 5 years, 7 years and 10 years. The rates per lot per year is as follows:

3 years - \$235.72  
5 years - \$141.44  
7 years - \$101.02  
10 years - \$ 70.72

In determining its decision, the Board should also be mindful of the following – 1. Amount of time these funds would be unavailable to the General Drain Improvement Fund (GDIF), 2. In order to increase the maintenance assessment the Board would need to set a hearing to do so. The soonest the Board could set a hearing would be October 28, 2019, 3. The 90-day bid hold started June 10, 2019 and will expire September 8, 2019. Also, attached is an assessment schedule for each of the above rates for maintenance.

Sincerely,



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/llm



FILED

JUN 28 2018

OFFICE OF HAMILTON COUNTY SURVEYOR

To: Hamilton County Drainage Board

Date: 5-21-2018

Re: Anchorage Drain

Andrew Allen and Eight Neighbors (Here-in-after "Petitioner"),

hereby petitions the Hamilton County Drainage Board under IC 36-9-27-66 for an arm to be

installed to the Anchorage Drain in order to serve the property of the

petitioner. The petitioner, in support of said petition, advises the Board that:

1. The Anchorage Drain is presently on a maintenance program and that land of the petitioner is assessed as benefited by the maintenance of the regulated drain

2. There is no known adequate open or tiled drain connecting the land of the petitioner with the regulated drain;

3. The waters from the petitioners land flow over or through land owned by others to reach the regulated drain;

4. The legal description of lands through which the new regulated drain will run along with the parcel numbers, name and address of each owner of that land is shown on Exhibit "A" which is attached; - Not Attached

5. The general route of the proposed new regulated drain and method of construction is shown on Exhibit "B" which is attached. - Not Attached

6. ~~Petitioner agrees to pay all legal and construction costs involved with the construction of the proposed new regulated drain.~~ only interested in a survey at this time.

with Knatch

Signed

Printed

Andrew Allen 10138 Summerlin Way

Drew & Kristin Allen

Erin Madigan 10220 Summerlin Way

Jeff & Erin Madigan

Steve J. Allen 12421 Anchorage Way

Steven J. Allen

André Guillaume 12441 Anchorage Way

André Guillaume

Michelle Bortenschlager 10188 Summerlin Way

Michelle Bortenschlager

Robert C. Midsen 10108 Summerlin Way

Robert C. Midsen

Suzanne Bargmann 12431 Anchorage Way

Suzanne Bargmann

Robyn Cefali 10200 Summerlin Way

Robyn Cefali

Adobe PDF Fillable Form

FILED

JUN 28 2018

OFFICE OF HAMILTON COUNTY SURVEYOR

To: Hamilton County Drainage Board

Date: 5-21-2018

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petitioner. The petitioner, in support of said petition, advises the Board that:

1. The Anchorage Drain is presently on a maintenance program and that land of the petitioner is assessed as benefited by the maintenance of the regulated drain
2. There is no known adequate open or tiled drain connecting the land of the petitioner with the regulated drain;
3. The waters from the petitioners land flow over or through land owned by others to reach the regulated drain;
4. The legal description of lands through which the new regulated drain will run along with the parcel numbers, name and address of each owner of that land is shown on Exhibit "A" which is attached; - Not Attached
5. The general route of the proposed new regulated drain and method of construction is shown on Exhibit "B" which is attached. - Not Attached
6. ~~Petitioner agrees to pay all legal and construction costs involved with the construction of the proposed new regulated drain.~~ only interested in a survey at this time.

*with knowledge* *ELICK KRAVICH* 10210 Summerlin Way FISHERS, IN 46037  
Signed Printed

*Andrew Allen* 10138 Summerlin Way *Drew & Kristin Allen*

*Eric Moleban* 10220 Summerlin Way *Jeff & Eric Moleban*

*Steve Jones* 12421 Anchorage Way *Steven J. Jones*

*Andre Guillarme* 12441 Anchorage Way *Andre Guillarme*

*Michelle Bortenschlager* 10188 Summerlin Way *Michelle Bortenschlager*

*Robert C Midamonti* 10108 Summerlin Way *Robert C Midamonti*

*Suzanne Bargmann* 12431 Anchorage Way *Suzanne Bargmann*

*Robyn Cefali* 10200 Summerlin Way *Robyn Cefali*

Adobe PDF Fillable Form

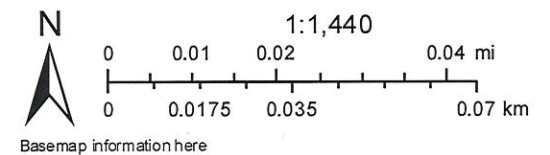


# Anchorage Drain - Allen Petition



June 28, 2018

- |                        |                     |                                    |
|------------------------|---------------------|------------------------------------|
| ● All Other Structures | ..... CLOSED DRAIN  | --- SSD                            |
| ⊕ MUNICIPAL MANHOLE    | --- MUNICIPAL DRAIN | --- Regulated Drains Waterways     |
| Drain Name             | --- OPEN DRAIN      | --- Regulated Drains Drainage Pool |





STATE OF INDIANA       )  
                                  )   ss:  
COUNTY OF HAMILTON   )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
***Anchorage Drain, Reconstruction of a portion of Section 1 Arm***

**FINDINGS AND ORDER FOR RECONSTRUCTION**

The matter of the proposed Reconstruction of the ***Anchorage Drain, Reconstruction of a portion of Section 1 Arm*** came before the Hamilton County Drainage Board for hearing ***on September 23, 2019***, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.


Wherefore, it is ORDERED, that the proposed Reconstruction of the ***Anchorage Drain, Reconstruction of a portion of Section 1 Arm*** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:


HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
PRESIDENT

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

ATTEST:

  
Executive Secretary

May 20, 2019

Hamilton County Drainage Board  
One Hamilton County Square, Ste 188  
Noblesville, IN 46060-2230

**FILED**  
**MAY 24 2019**  
OFFICE OF HAMILTON COUNTY SURVEYOR

To Hamilton County Drainage Board,

I am in receipt of notice of a hearing regarding a meeting on May 28. Included in this letter, is a proposed assessment for my property in order to improve the drainage problem that has been escalating the last few years here in The Anchorage.

I object to this personal assessment, as it is believed that the County never did the drain properly. My neighbors and myself have made NUMEROUS calls to the Drainage Board for months, even years that were never responded to.

Exactly one year ago was the first time a team of individuals came out and met with several of us. It was also the driest day of the year. Again, months passed and finally were able to get a meeting at the Fall Creek offices. They showed us all a survey of the area, and it was determined that what was proposed did not even help my entire problem. The water now is literally within feet of my house.

We have lost 5 big trees, grass is nonexistent, looks like a swamp, and is an embarrassment. It is going to cost thousands just to re landscape alone, if even possible in the near future. If this would have been addressed years ago when we asked for help, it could have been avoided. We have been here for 25 years, and when a member of your board was asked why it probably wasn't done right in the first place, his response was "25 years ago we only had 4 guys working in the office, so couldn't check everything". Well, I will not pay for the negligence that occurred then, nor the ignoring of calls for help even a couple years ago. You created this disaster, as that's what it has now become. You need to be responsible to your long time citizens to fix it.

I trust you will really listen now, actually come see the flooding, and realize the enormity of this issue. Most of us have been here for 20plus years, have been a part of little Fishers into a growing metropolis. We need just as much attention as all the new, "bigger" things.

Michelle Bortenschlager  
The Anchorage

Anchorage Drain

Parcel No. 13-15-10-00-04-0607.000



# Anchorage - Bortenschlager Objection



May 24, 2019

Parcels  
Subdivisions  
Interstates & US Highways

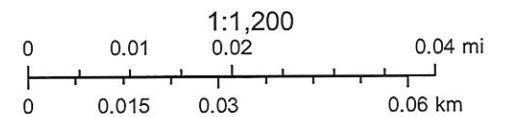
State Highways  
Major Roads  
Minor Roads

Lakes & Reservoirs  
Rivers & Streams

## Drainage Structures

● All Other Structures  
⊕ MUNICIPAL MANHOLE

Drain Name



Author: Hamilton County



BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

**Anchorage Drain**  
**Reconstruction of a Portion of Section 1 Arm**

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County  
Drainage Board concerning the reconstruction of the **Anchorage  
Drain, Reconstruction of a Portion of Section 1 Arm** on **May 28, 2019**  
at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial  
Center, One Hamilton County Square, Noblesville, Indiana.  
Construction and maintenance reports of the Surveyor and the  
Schedule of Assessments proposed by the Drainage Board have been  
filed and are available for public inspection in the office of the  
Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

**Anchorage Drain**  
**Reconstruction of a Portion of Section 1 Arm**  
**(Continued Hearing)**

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Anchorage Drain, Reconstruction of a Portion of Section 1 Arm (Continued Hearing)** on **August 26, 2019** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



STATE OF INDIANA        )  
                          ) SS               BEFORE THE HAMILTON  
                          )  
COUNTY OF HAMILTON    )               DRAINAGE BOARD

**IN THE MATTER OF Anchorage Drain, Reconstruction of a  
Portion of Section 1**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **September 23, 2019** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

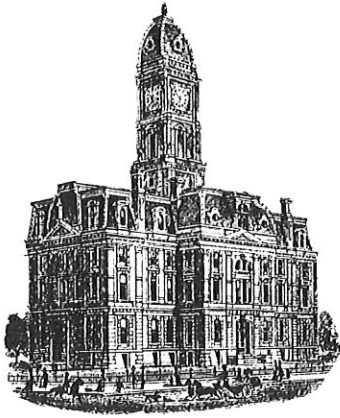
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Christine Altman  
PRESIDENT

ATTEST: Lynette Mosbaugh  
SECRETARY



Kenton C. Ward, CFM  
Surveyor of Hamilton County  
Phone (317) 776-8495  
Fax (317) 776-9628

Suite 188  
One Hamilton County Square  
Noblesville, Indiana 46060-2230

August 17, 2020

TO: Hamilton County Drainage Board

**RE: Reconstruction of a Portion of the Section 1 Arm of the Anchorage Regulated Drain**

This is the Inspector's Final report on the Anchorage Drain reconstruction, across Lots 60, 61, 62, 64, 65, 67, 68 and 69 located in Section 10, Township 17 North, Range 5 East in Fall Creek Township, Hamilton County, Indiana.

After several continuances, updates and discussions on the Anchorage reconstruction project by the Board between April and September 2019 the following is a timeline of the process from the initial bid opening to acceptance of the Agricon quote.

At the April 22, 2019 meeting of the Hamilton County Drainage Board the Surveyor requested a May 28, 2019 hearing for the Anchorage Drain reconstruction. The Surveyor mentioned plans were already on the street in anticipation of having hard numbers for the hearing. (Hamilton County Drainage Board Minutes Book 18, Pages 414-415)

At the May 13, 2019 meeting of the Hamilton County Drainage Board two bids were received for the project to reconstruct a portion of the Anchorage Regulated Drain. The bids received were as follows:

Millennium Contractors, LLC	\$175,000.00
Morphey Construction	\$177,745.00

Both bids exceeded the Engineer's Estimate as well as the funds available for this project. The Board authorized and directed the County Surveyor to invite three quotes for this project from three contractors.

At the May 28, 2019 meeting of the Hamilton County Drainage Board the Surveyor recommended that the Board reject the submitted bids of Millennium Contractors and Morphey Construction. The Board heard and tabled the Surveyor's Report for the Anchorage reconstruction. (Hamilton County Drainage Board Minutes Book 18, Pages 430-431 & 440-449)

At the June 10, 2019 meeting of the Hamilton County Drainage Board received a quote from Agricon Inc in the amount of 75,625.00. Quote was referred to Surveyor for review. The Board asked the Surveyor to obtain written consent from Agricon to hold quote and made a motion to continue the hearing to July 22, 2019. (Hamilton County Drainage Board Minute Book 18, Page 457)

At the July 8, 2019 meeting of the Hamilton County Drainage Board there was discussion to extend the drain to the Moheban property. The Board was informed the survey and design work had been done and the drain could be extended to the Moheban property to address the Moheban drainage issue. (Hamilton County Drainage Board Minute Book 18, Page 511)

At the July 22, 2019 meeting of the Hamilton County Drainage Board there was continued discussion on the reconstruction, the Board was informed that a new reconstruction notice had been issued due to drain extension to the Moheban property. The Board continued the tabled hearing for the reconstruction to August 26, 2019. (Hamilton County Drainage Board Minutes Book 18, Pages 513-518)

At the August 12, 2019 meeting of the Hamilton County Drainage Board the Board was updated on the reconstruction and the new arm to the Moheban property. (Hamilton County Drainage Board Minutes Book 18, Pages 548-551)

At the August 26, 2019 meeting the revised Surveyor's report was presented to the Board. The revised report addressed the drain extension to the Moheban property. The Board tabled the hearing and requested the Surveyor seek a 30 day hold on the quote from Agricon. (Hamilton County Drainage Board Minutes Book 18, Pages 564-572)

At the September 9, 2019 meeting there was a motion by the Board to amend the meetings agenda to discuss the Anchorage reconstruction project. The discussion centered on funding for the reconstruction project. The Board tabled the hearing again. Agricon agreed to hold quote for another 30 days. (Hamilton County Drainage Board Minutes Book 18, Pages 582-588)

At the September 23, 2019 meeting there was discussion by the Board on how to fund the reconstruction and how to make up the funding shortfall. The Board approved the tabled revised Surveyor's Report to the Board and approved the quote from Agricon at the request of the Surveyor in the amount of \$104,850.00. (Hamilton County Drainage Board Minutes Book 19, Pages 13-17 & 22-23)

The original cost estimate for the Anchorage Drain 2019 Reconstruction was \$77,745.75. But with additional design work for an addition of an Arm south to the Moheban property on the project, the Engineers Estimate was revised to \$120,577.50.

The Anchorage Drain Reconstruction consisted of clearing of existing trees from the project area, installation of 600 feet of 12" HDPE pipe and the installation of 7 precast inlet structures with stool type beehive castings.

During the reconstruction there were some minor changes made to the original design of Gary R. Duncan, P.E., Staff Engineer of the Hamilton County Surveyor's Office. Structure 601 on Lot 67 was switched out from a beehive casting to a solid lid casting, grades adjusted and the swale across Lot 67 was eliminated at the request of the property owner.

There was some private drainage work done by Agricon for the property owners to address wet areas on their properties. This private work will remain private and not become part of the regulated drain reconstruction. The cost of the private work was borne by the property owners affected by the project.

The following is the installed lengths of 12" HDPE pipe between structures.

Structures	Proposed	Actual
Existing Structure – Structure 601	91.02 LF	92 LF
Structure 601 – Structure 602	60.28 LF	61 LF
Structure 602 – Structure 603	66.78 LF	62 LF
Structure 603 – Structure 604	129.87 LF	129 LF
Structure 604 – Structure 606	48.56 LF	50 LF
Structure 606 – Structure 605	46.09 LF	50 LF
Structure 606 – Structure 607	<u>154.29 LF</u>	<u>156 LF</u>
Total	596.89 LF	600 LF

During the reconstruction there was one (1) Change Order.

Change Order # 1 dated May 4, 2020 was taken to the Hamilton County Drainage Board at the May 11, 2020 meeting for discussion and approval of additional work required for the project and deletion of several items from the contract. (Hamilton County Drainage Board Minutes Book 19, Page 215)

The following is an addition to the Anchorage Drain Reconstruction contract.

1. 10 feet of 6" Dual Wall HDPE	\$ <u>500.00</u>
---------------------------------	------------------

Total Cost of Change Order # 1	\$ 500.00
--------------------------------	-----------

The following items were not billed for on the contract and therefore their costs were deducted from the contract with Change Order # 1.

1. Item 3 – Tree Protection Fence	\$1,550.00
2. Item 5 – Landscape Wall Removal & Restoration	\$3,500.00
3. Item 8 – 12" Diameter Fiber Rolls	\$1,800.00
4. Item 11 – 3 – 6" Caps	\$ 75.00
5. Item 14 Topsoil (166 CY)	\$6,640.00
6. Item 15 – Two (2) Yard Drain & Drain Connections	<u>\$1,000.00</u>
	(\$-14,065.00)

The following is a breakdown of costs associated with the Anchorage reconstruction. During the project there were Four (4) pay applications.

Pay Application # 1 Total	\$52,500.00
Retainage	<u>\$ (7,875.00)</u>
Amount Paid to Agricon (01/14/20)	\$44,625.00

Pay Application # 2 Total	\$31,925.00
Retainage	<u>\$ (4,788.75)</u>
Amount Paid to Agricon (02/25/20)	\$27,136.25

Pay Application # 3 Total	\$ 6,360.00
Retainage	<u>\$ (954.00)</u>
Amount Paid to Agricon (05/27/20)	\$ 5,406.00

Pay Application # 4 Total (Retainage)	\$(13,617.75)
Amount Paid to Agricon (06/23/2020)	<u>\$ 13,617.75</u>
Total Paid to Agricon	\$ 90,785.00
Revised Engineers Estimate	\$120,577.50
Contractors Bid	\$104,850.00
Total Additions of Change Order # 1	500.00
Deletions from Contract (Change Order # 1)	<u>(-\$14,565.00)</u>
Total Reconstruction Cost	<b>\$90,785.00</b>

The project was paid for out of the General Drain Improvement Fund along with a grant from the City of Fishers Stormwater Program for \$49,500.00 and individual assessments to property owners directly affected by the project.

Engineering, Construction Staking and As-built Drawings were completed in house by Hamilton County Surveyor's Office staff under the supervision of Brian Rayl, PLS.

The Contractor's statement that all incurred expenses have been paid was signed by the contractor as required in IC 36-9-27-82(b) was received on May 01, 2020.

The Irrevocable Standby Letter of Credit #60006335 for the reconstruction in the amount of \$127,500.50 was released at the August 10, 2020 meeting of the Hamilton County Drainage Board. (Hamilton County Drainage Board Minutes Book 19, Page 301)

As of August 17, 2020, I hereby attest to and agree that the reconstruction was completed according to specified plans and have approved such work under IC 36-9-27-82(a). All inspections have been completed.

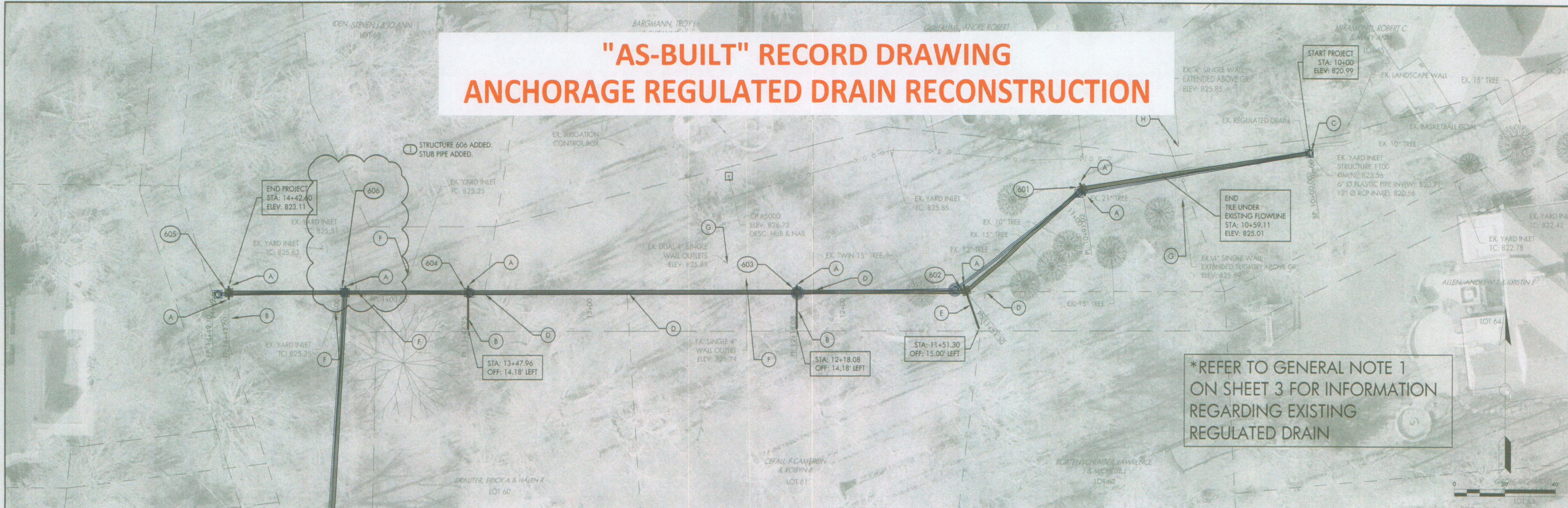
I recommend the Board approve the drain's reconstruction as complete and acceptable.

Respectfully,

  
 Jerry L. Liston  
 Hamilton County Surveyor's Office



# "AS-BUILT" RECORD DRAWING ANCHORAGE REGULATED DRAIN RECONSTRUCTION



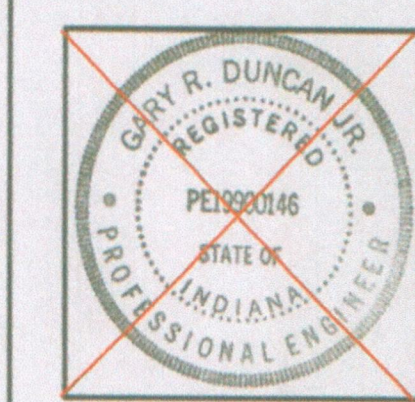
HAMILTON COUNTY, INDIANA

HAMILTON COUNTY SURVEYOR'S OFFICE  
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER  
ONE HAMILTON COUNTY SQUARE, SUITE 188  
NOBLESVILLE, IN 46060  
PHONE: (317) 776-8495  
FAX: (317) 776-9628  
SURVEYOR@HAMILTONCOUNTY.IN.GOV



PROJECT NO:	24618
WATERSHED NO:	246
FED BK:	10, PG 123-133
FED BY:	BKR
DRAWN BY:	GRD/ROA
CHECKED BY:	GRD
DATE:	10/24/2018

BY:	GRD
DATE:	07/17/19
REVISIONS:	VARIES. SEE NOTES



CERTIFIED BY: *[Signature]*  
GARY R. DUNCAN, JR., P.E.

PROJECT NAME:  
ANCHORAGE DRAIN  
RECONSTRUCTION  
PLAN & PROFILE

SHEET NO.  
2 OF 5

## PLAN NOTES

- (A) SHORT STUB OF 6" DUAL WALL HDPE TILE WITH CAP FOR FUTURE CONNECTION (WITHIN EXCAVATION FOR INLET).
- (B) 14.18 LF OF 6" DUAL WALL HDPE TILE @ 0.20% SLOPE WITH CAP FOR FUTURE CONNECTION.
- (C) CONNECT TO EXISTING STORM DRAIN STRUCTURE. CORE DRILL HOLES, INSPECTOR SHALL INSPECT CONNECTION PRIOR TO BACKFILL.
- (D) REBAR TO BE RESET BY HCISO.
- (E) 15 LF OF 6" DUAL WALL HDPE TILE @ 0.20% SLOPE WITH CAP FOR FUTURE CONNECTIONS.
- (F) CONNECT YARD DRAIN TO PROPOSED TILE IF PIPE IS UNCOVERED DURING TRENCHING WORK.
- (G) CONNECT YARD DRAIN TO PROPOSED TILE IF APPROVED BY PROPERTY OWNER.
- (H) CONNECT YARD DRAIN TO PROPOSED TILE IF APPROVED BY PROPERTY OWNER. SINCE OUTLET IS OUTSIDE OF EASEMENT, SUCH APPROVAL SHALL BE OBTAINED IN WRITING.

## PROPOSED LEGEND

- (601) STORM STRUCTURE #
- (A) PLAN NOTE
- (1) DEMOLITION NOTE
- (C) EROSION & SEDIMENT CONTROL NOTE
- (P) PROPOSED STORM SEWER
- (T) TREE PROTECTION FENCE

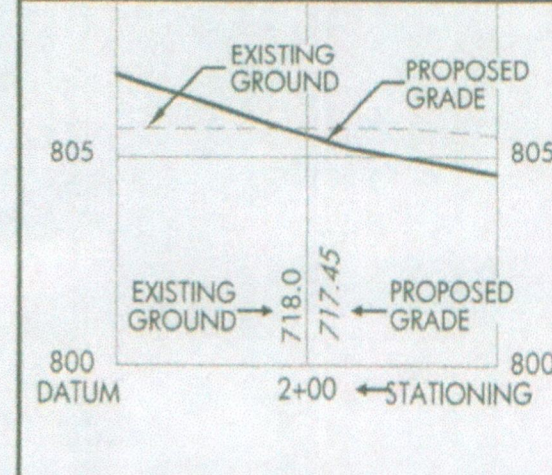
## HATCH LEGEND

- PROPOSED SEEDING. SEE PROJECT MANUAL FOR APPLICATION RATES, SEED MIX, SURFACE ROUGHENING AND STRAW MULCHING
- CLEARING

## LEGEND

- EXISTING EASEMENT LINE
- APPROX. PROPERTY LINE
- OHE EXISTING OVERHEAD ELECTRIC
- SAN EXISTING SANITARY SEWER
- W EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING UTILITY POLE
- EXISTING SIGN

## PROFILE LEGEND



## PLAN VIEW SCALE: 1"=20'

PROFILE VIEW:  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

REFER TO GENERAL NOTES ON SHEET 3

## "AS-BUILT" CERTIFICATION

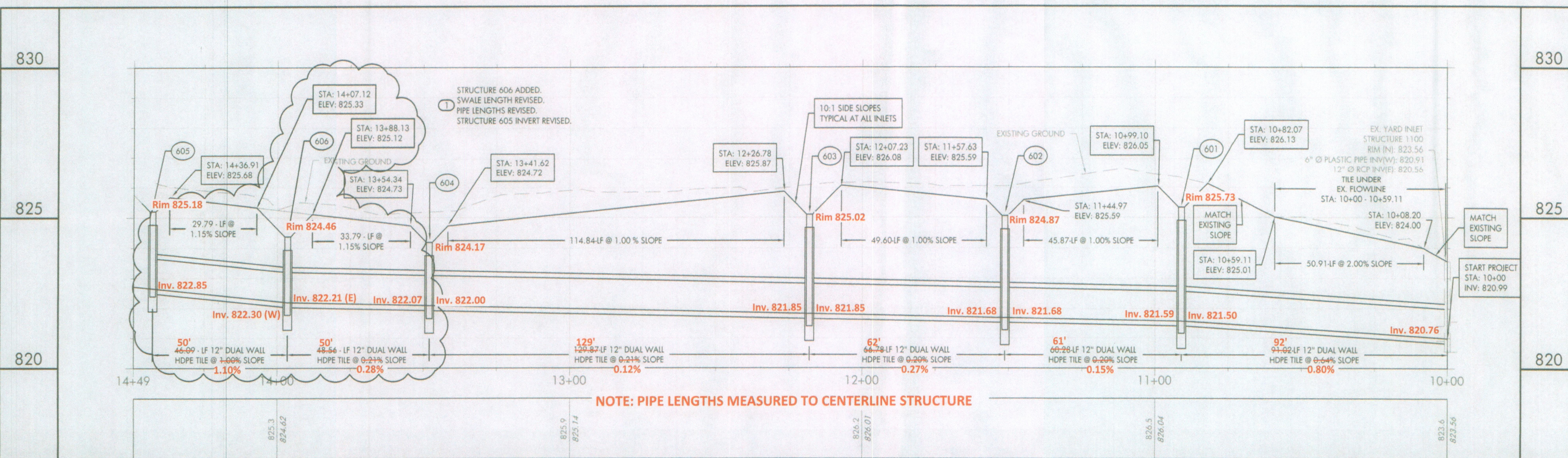
"AS BUILT" INFORMATION COLLECTED BY HAMILTON COUNTY SURVEYOR'S OFFICE. I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, A TRUE AND CORRECT REPRESENTATION OF THE LOCATIONS AND ELEVATIONS OF THE "AS-BUILT" REGULATED DRAIN IMPROVEMENTS. INFORMATION OBTAINED BY FIELD SURVEY ON 3/05/2020 Field Book #11 Pages 86-89

CERTIFIED BY: *[Signature]*  
BRIAN K. RAYL, PS  
PROFESSIONAL SURVEYOR  
INDIANA LICENSE NO. 20100070



DATE: MAY 14, 2020

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR SURVEYOR LOCATION REPORT



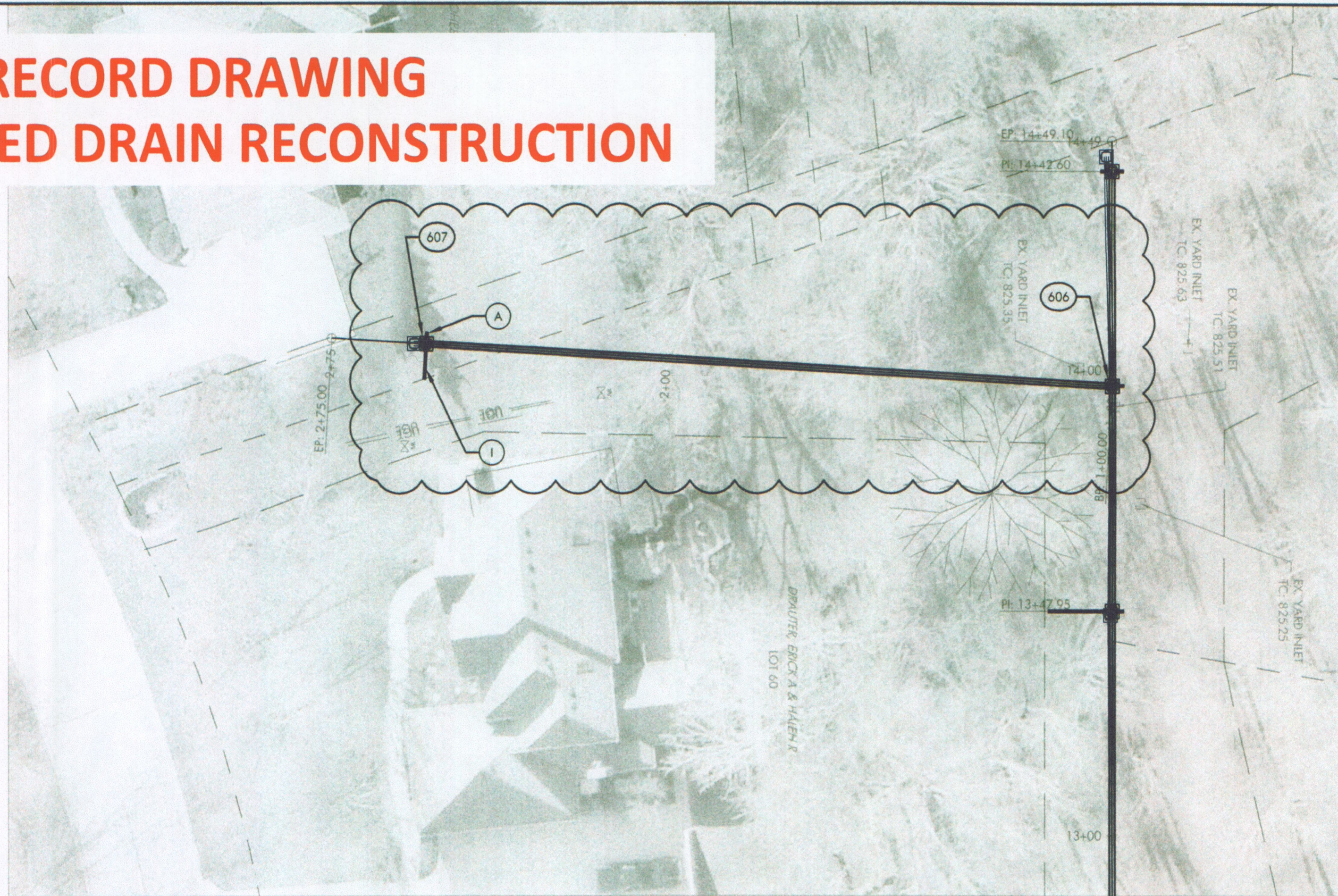
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# "AS-BUILT" RECORD DRAWING ANCHORAGE REGULATED DRAIN RECONSTRUCTION



EROSION & SEDIMENT CONTROL



## DEMOLITION NOTES

- 1 REMOVE EXISTING TREE.
- 2 PROTECT EXISTING TREE DURING CONSTRUCTION. PRUNE ANY BRANCHES AT TRUNK PER SPECIAL INSTRUCTIONS.
- 3 REMOVE EXISTING LANDSCAPE WALL. REFER TO SPECIAL INSTRUCTIONS FOR REMOVAL AND RESTORATION REQUIREMENTS. NOTIFY HCSO IF WORK DOES NOT REQUIRE REMOVAL.

## PLAN NOTES

- A SHORT STUB OF 6" DUAL WALL HDPE TILE WITH CAP FOR FUTURE CONNECTION (WITHIN EXCAVATION FOR INLET).
- B 14.18 LF OF 6" DUAL WALL HDPE TILE @ 0.20% SLOPE WITH CAP FOR FUTURE CONNECTION.
- C CONNECT TO EXISTING STORM DRAIN STRUCTURE. CORE DRILL HOLES. INSPECTOR SHALL INSPECT CONNECTION PRIOR TO BACKFILL.
- D REBAR TO BE RESET BY HCSO.
- E 15 LF OF 6" DUAL WALL HDPE TILE @ 0.20% SLOPE WITH CAP FOR FUTURE CONNECTIONS.
- F CONNECT YARD DRAIN TO PROPOSED TILE IF PIPE IS UNCOVERED DURING TRENCHING WORK.
- G CONNECT YARD DRAIN TO PROPOSED TILE IF APPROVED BY PROPERTY OWNER.
- H CONNECT YARD DRAIN TO PROPOSED TILE IF APPROVED BY PROPERTY OWNER. SINCE OUTLET IS OUTSIDE OF EASEMENT, SUCH APPROVAL SHALL BE OBTAINED IN WRITING.
- I 7 LF OF 6" DUAL WALL HDPE TILE @ 0.2% SLOPE WITH CAP FOR FUTURE CONNECTION.

PLAN NOTE ADDED

## EROSION / SEDIMENT CONTROL

- A WELDED WIRE MONOFILAMENT INLET PROTECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- B 8" FIBER ROLL AT LENGTH NOTED INSTALLED AND STAKED PER MANUFACTURER'S RECOMMENDATIONS.
- C TREE PROTECTION FENCE AT LENGTH NOTED.

## PROPOSED LEGEND

- 601 STORM STRUCTURE #
- A PLAN NOTE
- 1 DEMOLITION NOTE
- C EROSION & SEDIMENT CONTROL NOTE
- PROPOSED STORM SEWER
- TREE PROTECTION FENCE

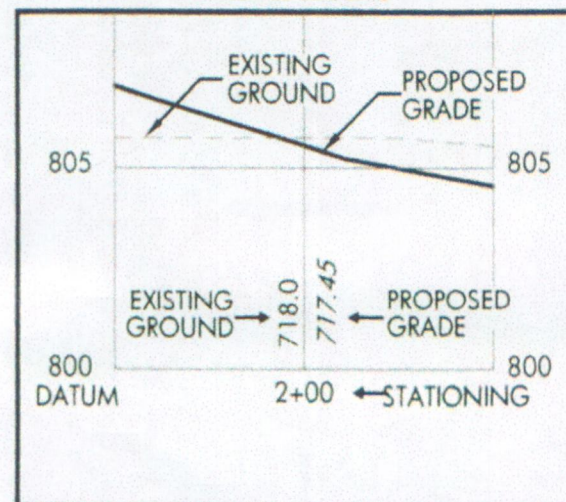
## HATCH LEGEND

- PROPOSED SEEDING. SEE PROJECT MANUAL FOR APPLICATION RATES, SEED MIX, SURFACE ROUGHENING AND STRAW MULCHING
- CLEARING

## LEGEND

- EXISTING EASEMENT LINE
- APPROX. PROPERTY LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING UTILITY POLE
- EXISTING SIGN

## PROFILE LEGEND



PLAN VIEW SCALE: 1"=20'

PROFILE VIEW SCALE: 1"=20'  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

REFER TO GENERAL NOTES ON SHEET 3

THE AS-BUILT SURVEY USED THE FOLLOWING DATUM:  
HORIZONTAL DATUM: NAD 1983 (CONUS) INDIANA EAST 1301  
VERTICAL DATUM: (NAVD 88) (GEOID 12A)

## "AS-BUILT" CERTIFICATION

"AS BUILT" INFORMATION COLLECTED BY HAMILTON COUNTY SURVEYOR'S OFFICE. I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, A TRUE AND CORRECT REPRESENTATION OF THE LOCATIONS AND ELEVATIONS OF THE "AS-BUILT" REGULATED DRAIN IMPROVEMENTS. INFORMATION OBTAINED BY FIELD SURVEY ON 3/05/2020 Field Book #11 Pages 86-89

CERTIFIED BY:   
BRIAN K. RAYL, PS  
PROFESSIONAL SURVEYOR  
INDIANA LICENSE NO. 20100070

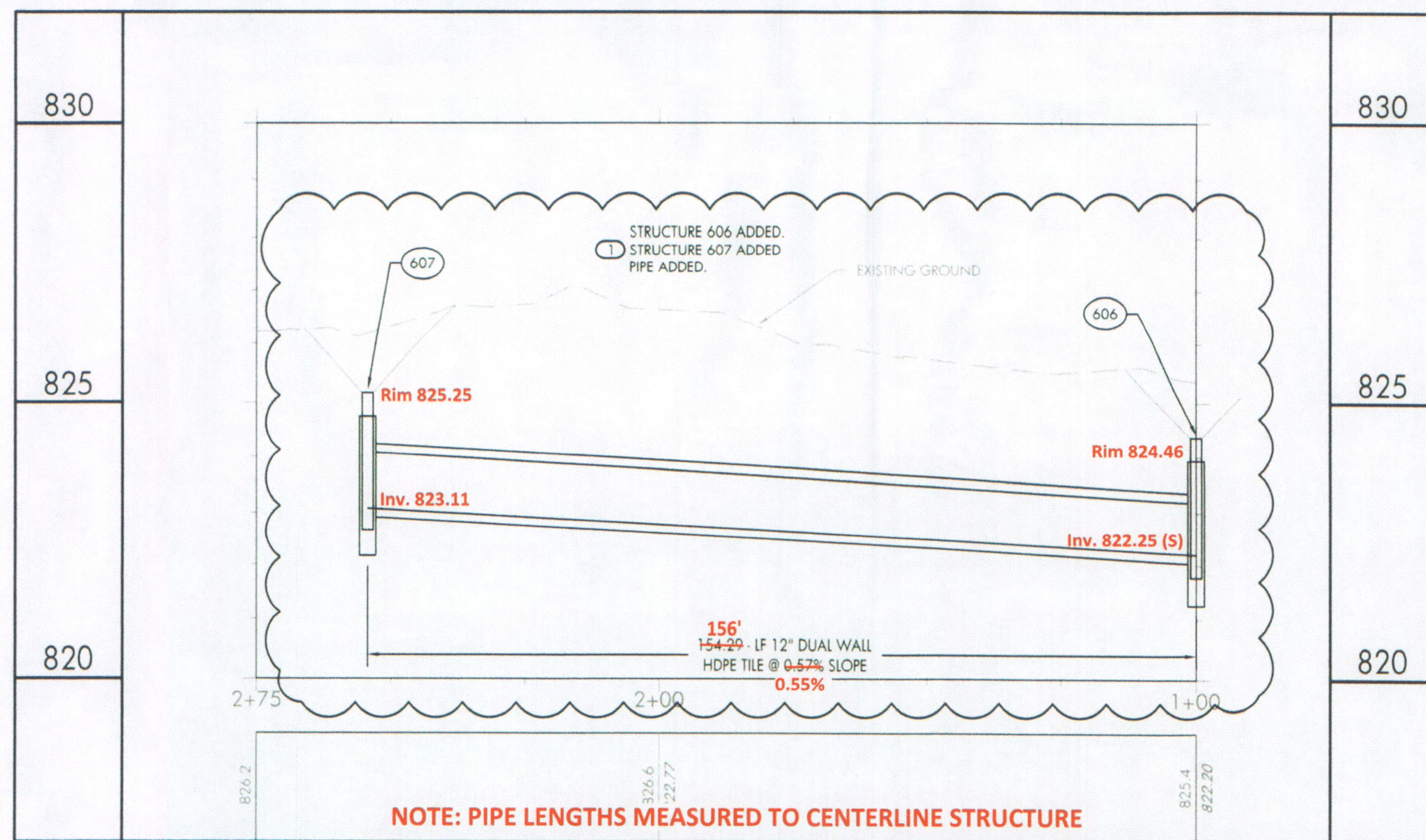
DATE: May 14, 2020

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR SURVEYOR LOCATION REPORT

## PREPARED BY:



HAMILTON COUNTY, INDIANA  
HAMILTON COUNTY SURVEYOR'S OFFICE  
HAMILTON COUNTY GOVERNMENT AND JUDICIAL CENTER  
ONE HAMILTON COUNTY SQUARE, SUITE 188  
NOBLESVILLE, IN 46060  
PHONE: (317) 776-8495  
FAX: (317) 776-9628  
SURVEYOR@HAMILTONCOUNTY.IN.GOV



NOTE: PIPE LENGTHS MEASURED TO CENTERLINE STRUCTURE

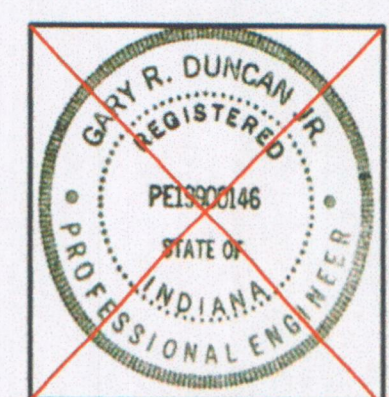
HAMILTON COUNTY, INDIANA

HAMILTON COUNTY SURVEYOR'S OFFICE  
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER  
ONE HAMILTON COUNTY SQUARE, SUITE 188  
NOBLESVILLE, IN 46060  
PHONE: (317) 776-8495  
FAX: (317) 776-9628  
SURVEYOR@HAMILTONCOUNTY.IN.GOV



PROJECT NO: 246-18  
WATERSHED NO: 246  
FIELD BK: 10, PG 123-133  
FIELD BY: BKR  
DRAWN BY: GRD/ROA  
CHECKED BY: GRD  
DATE: 10/24/2018

BY: GRD  
DATE: 07/17/19  
REVISIONS:  
VARIES: SEE NOTES



CERTIFIED BY:   
GARY R. DUNCAN, JR., P.E.

PROJECT NAME:  
ANCHORAGE DRAIN  
RECONSTRUCTION  
SOUTH PIPE STUB - PLAN & PROFILE  
EROSION & SEDIMENT CONTROL  
SHEET NO.  
5 OF 5  
PLOT DATE: Jul 17, 2019 - 5:05 pm