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February 13, 2018

To: Hamilton County Drainage Board

Re: WS Burnau Arm of the FM Musselman Drain

Attached are a petition, reconstruction plans, drain map, drainage-shed map, and schedule of assessments for the reconstruction of the WS Burnau Arm of the FM Musselman Drain. The WS Burnau Arm of the FM Musselman Drain is in need of reconstruction at this time due to its lack of adequate capacity, the condition of the drain due to its age and significant standing water issues on both sides of Mallery Road south of 191<sup>st</sup> Street. The drain is listed as Number 16 on the 2017 Drain Classification List for Reconstruction. A petition for reconstruction of the WS Burnau Arm of the FM Musselman Drain was presented to the Drainage Board on June 8, 2015. The petition was signed by approximately 22% of the landowners within the Drainage Shed. (See Hamilton County Drainage Board Minutes Book 16, page 219).

The attached plans, dated February 16, 2018, were prepared by VS Engineering. The proposed project will improve the flow characteristics of the drain, provide an increased capacity outlet for all areas within the watershed that experience flooding and better drain the soil of the agricultural fields served by this drain.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway and be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited.

**History:**

Per the Report dated April 26, 1994 presented to the Drainage Board at the April 27, 1994 meeting of the Drainage Board, the original construction reports and other information for the W.S. Burnau Drain cannot be found. Information concerning this drain was drawn from other resources such as the 1932 Drain Map. The Drain consists of a main ditch and an arm. The 1994 report states that the main ditch consists of approximately 5,000-feet of tile and 350-feet of open ditch and that the arm consists of approximately 2000-feet of tile. The report states that the approximate total length of the drain is

7,350-feet. The Drain was repaired as part of the S.H. Searce Drain in 1915, 1916 and 1924. A concrete retaining wall was constructed on the outlet of the WS Burnau Arm as part of the 1928 reconstruction of the FM Musselman Drain. (See Hamilton County Drainage Board Minutes Book 3, Page 245)

Sometime after the 1994 report was presented, further investigation of the drain established the total length of the drain to be 8,117-feet. The current GASB 34 footages are listed as follows: 5,757-feet of tile, 360-feet of open ditch with a tile arm 2,000-feet in length. Pipe sizes are not included in the GASB report. It is also noted in the GASB report that the length of the drain is approximate. Through investigations and work orders, the size of the tile has been identified at various times and locations since 2007. The main tile varies in size from 8-inch to 18-inch. Arm 1 is an 8-inch tile through its full length of 2,000-feet.

The drain is located in Noblesville Township, Sections 21 and 28 of Township 19 North Range 5 East. The drain starts at a point approximately 2,400-feet east of Promise Road and 1,620-feet south of 191<sup>st</sup> Street and runs north and west to its point of discharge to the FM Musselman Drain. Arm 1 starts approximately 643-feet east of Mallery Road and 646-feet south of 191<sup>st</sup> Street and runs north and west to where it joins the main drain at approximately Station 25+77 of the main drain. This station is based on the approximate length of the drain from the GASB 34 footages. The drain is part of the FM Musselman Drain watershed.

A report dated December 19, 1985 was presented to the Drainage Board at the January 13, 1986 meeting of the Drainage Board. The report states that the Surveyor is investigating the possibility of constructing a new drain for Kentre Meadows or reconstructing the WS Burnau Drain. (See Hamilton County Drainage Board Minutes Book 2, Page 105).

At the meeting of the Drainage Board on January 22, 1991, Mr. Steven Church and Mr. Les Locke came before the Board to discuss drainage problems at 191<sup>st</sup> Street and Mallery Road. It was stated that, at that time, the Drain was not under a maintenance or reconstruction program. The Board requested that the Surveyor and the Highway Department investigate the drainage problem. (See Hamilton County Drainage Board Minutes Book 2, Page 502).

At the meeting of the Drainage Board on February 19, 1991, the Surveyor reported to the Board that the tile on the Church property was the WS Burnau Drain, a 10-inch tile, was running full and clean, and draining approximately 60-acres. (See Hamilton County Drainage Board Minutes Book 2, Page 502).

At the June 27, 1994 meeting of the Drainage Board the Board placed the F.M. Musselman watershed on a maintenance program. This area included the watersheds of the F.M. Musselman, E.G. Barker, W.S. Burnau and Thomas Huggins Drains. (See Hamilton County Drainage Board Minutes Book 3, pages 257-258)

On June 2, 2015 the above mentioned petition was received by the Surveyors office.

Requests for Proposal for the design of the reconstruction of the Drain were approved at the meeting of the Drainage Board on July 13, 2015 (See Hamilton County Drainage Board Minutes Book 16, Page 244).

At the meeting of the Drainage Board on August 10, 2015, six firms presented proposals for the design of the reconstruction of the Drain. (See Hamilton County Drainage Board Minutes Book 16, Page 267).

At the meeting of the Drainage Board on August 24, 2015, the County Surveyor recommended that the Board award the design services contract for the reconstruction of the drain to VS Engineering. (See Hamilton County Drainage Board Minutes Book 16, Page 272).

At the meeting of the Drainage Board on September 14, 2015, the professional services contract for the reconstruction of the drain was approved. (See Hamilton County Drainage Board Minutes Book 16, Page 291).

At the meeting of the Drainage Board on May 26, 2016, the Board approved the acquisition of easements on the Boyce, Roth, and Wampler properties needed to complete the reconstruction project. (See Hamilton County Drainage Board Minutes Book 16, Pages 559-560).

At the meeting of the Drainage Board on June 13, 2016, an amendment to the professional services contract for the reconstruction of the drain was approved. The amendment was associated with an expanded scope of services to extend the Drain to the east side of Mallery Road to provide a better outlet for a long standing drainage issue. (See Hamilton County Drainage Board Minutes Book 16, Page 576).

A public information meeting was held on October 11<sup>th</sup>, 2016 in the Noblesville Library. Notices of the meeting were mailed to the owners of the property within the WS Burnau Arm watershed. The meeting was attended by the following persons: Steve Williams, Ellen Wethington, Don Wethington, Kevin Burrow, Marshelia McLane, Chad Galloway, Mary Ogle, Mike Latty and Susan Peterson.

At the meeting of the Drainage Board on March 27, 2017, the Board approved the request to obtain appraisals for the four easements needed for the project. (See Hamilton County Drainage Board Minutes Book 17, Page 320).

At the meeting of the Drainage Board on July 10, 2017, the Board accepted the value of the appraisals and approved offers being made to the property owners for the four easements needed for the project. (See Hamilton County Drainage Board Minutes Book 17, Page 405).

At the meeting of the Drainage Board on July 24, 2017, property owners addressed the Board regarding the condition of the drain, issues experienced on their properties and the work on the Wampler property. (See Hamilton County Drainage Board Minutes Book 17, Pages 413-420).

At the meeting of the Drainage Board on August 14, 2017, the Hamilton County Surveyors Office made a presentation to the Board regarding their investigation of the work that had been completed on the Wampler property. Discussion regarding the condition of the drain, issues experienced on the properties and the work on the Wampler property continued. (See Hamilton County Drainage Board Minutes Book 17, Pages 431-439).

At the meeting of the Drainage Board on August 28, 2017, the easements from the Wampler and Ogle properties were approved. (See Hamilton County Drainage Board Minutes Book 17, Page 466).

At the meeting of the Drainage Board on September 11, 2017, the easement from the Roth property was approved. (See Hamilton County Drainage Board Minutes Book 17, Page 473).

At the meeting of the Drainage Board on October 23, 2017, the easement from the Boyce property was approved. (See Hamilton County Drainage Board Minutes Book 17, Page 500).

**Current Condition of the Drain:**

The drain functions but is undersized and requires frequent maintenance. There is significant flooding that occurs on the properties on both the east and west sides of Mallery Road south of 191<sup>st</sup> Street. There is also significant flooding in the field northeast of the intersection of 191<sup>st</sup> Street and Mallery Road that results in saturated soil that affects crop production. In 2017, in response to standing water in the areas served by the drain, several sinkholes and water surfacing and running across the downstream properties. A repair was completed on the Latty property to restore the function of the drain. Per WO-2017-00094, the cost of this repair was \$38,435.90.

Based on a search of the County’s database for drainage complaints, there have been twenty-five (25) Drainage Complaints logged in to the County’s database for such complaints since 2002. The complaints are listed below.

Job #	Issue	Location
2002-215	Drain not draining; Flooding house	Mallery Road and 191st Street
2002-452	Neighbor filling yard	18953 Mallery Road
2003-391	Standing water	18770 Mallery Road
2003-475	Drain backing up in house	11439 East 191st Street
2003-513	Standing water	18993 Mallery Road
2004-246	Erosion where maintenance completed	11345 East 196th Street
2005-38	Broken tile	18751 Mallery Road
2005-53	Drain clogged	11439 East 191st Street East
2005-110	Culvert blocked	11385 East 191st Street
2006-498	Blow holes	North side of 191st Street and west of Summer Road
2009-13	Water ponding in yard; entering crawl space	18953 Mallery Road
2009-68	Large sink hole	Southwest corner of 196th Street and Summer Road
2009-82	1 hole in woods; 1 next to woods	11395 East 196th Street
2009-127	Front/Backyard flooded	18953 Mallery Road
2013-103	Sink holes	11395 East 196th Street
2014-210	Standing water	18993 Mallery Road
2015-161	Tile full of dirt	191st Street and Mallery Road
2015-190	Digging on SE corner of 191st street and Mallery Road; tile not draining	Southeast corner Of 191st Street And Mallery Road
2015-455	Set new breather	East of Mallery Road; south side of 191st Street
2017-109	Water flowing on surface onto property	11345 East 196th Street
2017-386	Yard flooded	11439 East 191st Street East
2017-398	Debris from work in woods has uprooted fence; culvert needs inspection	11390 East 196th Street
2017-403	Drain clogged	11655 East 191st Street

2017-410	Hole in pasture	11390 East 196th Street
2017-500	Old drain needs replaced due to flooding	18953 Mallery Road

There have been a total of twelve (12) work orders since 2007 with a total value of \$54,947.50. The Work Orders are listed below.

Job #	Issue	Location	Value
2007-29	Repair holes in drain	191st Street and Summer Road	\$ 3,411.75
2007-286	Jet pipe	191st Street and Summer Road	\$ 656.25
2008-47	Set Breather	12440 East 196th Street	\$ 558.30
2009-91	Repair holes in drain	South of 196th Street/East of Promise Road	\$ 3,636.87
2009-103	Jet pipe	South of 191st Street/West of Mallery Road	\$ 250.00
2013-86	Repair holes in drain	196th Street and Promise Road	\$ 1,057.00
2015-176	Jet pipe	191st street and Mallery Road	\$ 1,962.10
2015-177	Jet pipe	191st street and Mallery Road	\$ 890.00
2015-368	Set Breather	East of Mallery Road; South Side of 191st Street	\$ 1,502.38
2016-209	Excavation to locate tile	191st street and Mallery Road	\$ 1,346.95
2017-94	Repair tile	South of 196th Street/East of Promise Road	\$ 38,435.90
2017-302	Repair tile	South of 196th Street/East of Promise Road	\$ 1,240.00

**Proposed Project:**

The existing tile was installed for agricultural drainage of the watershed and is not adequately sized to convey surface runoff. The new tile is sized to convey the runoff from the 10-year storm event in the future, developed condition with detention provided. The proposed tile system will provide a significant increase in capacity compared to the existing tile system. County standards require that new development provide detention facilities that store runoff up to the 100-year storm event and release the runoff at a reduced rate of 0.3-cfs/acre. The reduced rate was developed from the former standard that required the runoff from the 100-year storm event in the proposed condition be released at a peak rate that did not exceed the peak rate of runoff from the 10-year storm event in the existing condition. As such, this tile will also serve as an adequate outfall for future development.

The project also includes the installation of a grass waterway that will convey runoff in excess of the capacity of the proposed tile.

The reconstruction project will consist of the following: 3,063-LF of 48" HDPE pipe; 4,146-LF of 24" HDPE pipe; 978-LF of 12" HDPE pipe; 117-LF of 48" RCP; 149-LF 24" RCP; 39-LF of 12" RCP; 6,796-LF of grass waterway with 10:1 side slopes; 850-LF of grass waterway with 3:1 side slopes; 13, 48" diameter manholes; 9, 60" diameter manholes; 1, 72" diameter manhole; 4, Type A Inlets; gravel driveway repair; asphalt driveway repair; 1 pipe bulkhead; 1, 48-Inch RCP end section; demolition and clearing; pavement removal and repair where the drain crosses the various roadways; fence removal and repair; maintenance of traffic; construction phase erosion and sediment control; removal of the existing tile; rip-rap armorment at the outfall to the open ditch and seeding of the disturbed non-farmed areas.

There is roadway culvert work that is required to construct the project but these culverts are not part of the regulated drain: 37-LF of new 36" RCP to replace an existing culvert; 29-LF of new 24" RCP to replace and existing culvert; remove and replace 1 existing 21" CMP; pavement removal and repair.

Any excess soil material generated from the installation of the new pipe shall be spread within the limits of the existing easement so as not to negatively affect the existing surface drainage flow.

With the exception of the small portion across the Kopczynski property described below, the existing tile of both the main drain and Arm 1 will be removed as the project is constructed. Due to the current footage of the drain being stated as approximate, the stationing referenced in this report is based on the reconstruction plans dated February 16, 2018.

The current alignment of Arm 1 crosses the Kopczynski property from southeast to northwest. Existing buildings on the property are either located over the tile or are in such close proximity to the tile that maintenance of the tile would be hindered. As such, the project proposes to relocate the tile such that it runs north along the eastern property and then west along the north property line of the Kopczynski property. The portion of the existing tile across the Kopczynski property will be abandoned in place and the project will construct a positive outfall at the breather that was installed on the western property line in 2015.

**Easements:**

The project will occur within existing regulated drain easement. Four additional easements were required for this project. These easements were accepted by the Board at various meetings as previously outlined in this report. The parcels on which the easements run, the widths of the easements, acreage, and the instrument numbers of the recorded easements are outlined below.

Parcel Number	Owner	Easement Width	Instrument Number
10-07-28-00-00-007.001	Boyce Land Co., Inc.	Irregular; 0.764-acres	2017054517
10-07-28-00-00-018.000	Mark R. Roth	20-feet; 0.092-acres	2017049038
10-07-28-00-00-012.000	3 Percent Holdings, LLC [Formerly Wampler, Brent Trustee of Brent Wampler Rev Trust]	48.5-feet and 40- feet; 0.618-acres	2017048647
10-07-28-00-00-014.003	Jeffrey A. & Mary A. Ogle	40-feet; 0.104-acres	2017046357

The Surveyor is of the opinion that the widths of each easement is adequate for future maintenance of this tile and is allowed under IC 36-9-27-33(e).

**Permits:**

As this project is a project that will replace an existing pipe with a proposed pipe, no permits are required from IDNR, IDEM, or U.S. Army Corps of Engineers.

## Changes to the Drain:

Due to the current footage of the drain being stated as approximate, the stationing referenced in this report is based on the reconstruction plans dated February 16, 2018.

With the exception of approximately 170-feet across the Kopczynski property, the existing tile of the main drain and Arm 1 will be removed as the project is constructed. The approximately 170-feet of existing tile across the Kopczynski property shall be abandoned in place and removed from the County Regulated Drain inventory.

As previously stated, the current GASB 34 footages are listed as follows: 5,757-feet of tile, 360-feet of open ditch with a tile arm 2,000-feet in length. Pipe sizes are not included in the GASB 34 report. It is noted in the GASB 34 report that the length of the drain is approximate.

The proposed length of the main drain tile is 5,784-feet resulting in an increase to the GASB 34 footage of 27-feet. The length of the open ditch will be reduced from 360-feet to 260-feet. The main drain will consist of the following:

- 3,063-feet of 48" HDPE tile
- 117-feet of 48" RCP tile
- 2,231-feet of 24" HDPE tile
- 88-feet of 24" RCP tile
- 25-feet of 12" RCP (for two area inlets)
- 260-feet of open ditch

The existing retaining wall at the current outlet will remain.

The proposed length of Arm 1 is 2,037-feet resulting in an increase of the GASB 34 footage of 37-feet. Arm 1 will consist of the following:

- 1,915-feet of 24" HDPE tile
- 61-feet of 24" RCP tile
- 61-feet of 12" HDPE tile (for positive outfall for the portion of the existing tile to be abandoned across the Kopczynski property).

A new Arm will be constructed with this project. The new Arm shall be known as Arm 2 to the WS Burnau Drain. The new arm will be 931-feet in length and consists of the following:

- 892-feet of 12" HDPE tile
- 39-feet of 12" RCP tile

The final length of the drain will be 8,752-feet.

The regulated drain will now include a grass waterway for conveyance of runoff in excess of the capacity of the new tile. The grass waterway consists of two arms. One grass waterway will be parallel with the main drain tile and is 5,715-feet in length. The second grass waterway will be parallel with Arm 1 and is 1,931-feet in length.

**Project Cost:**

VS Engineering is under contract to provide the following professional services:

1. Survey
2. Engineering
3. Construction staking
4. As-Built drawing preparation
5. Geotechnical investigation
6. Easement document preparation

These contracted services equal \$49,250.00.

Gerdenich, Maten, Gabor was contracted to provide appraisal services for easement acquisition. The value of this contract is \$2,400.00.

The value of the easements acquired for this project are as follows:

Wampler Easement	\$ 8,200.00
Ogle Easement	\$ 1,600.00
Roth Easement	\$ 1,300.00
Boyce Easement	\$ 15,280.00
Total Acquisition Cost:	\$ 26,380.00

Buying services for easement acquisition were provided by staff of the Hamilton County Highway Department.

The estimated construction cost of the project is outlined as follows:

Line Item	Quantity	Unit	Unit Cost	Total Cost
12" HDPE (4-9' Deep)	978	LF	\$ 55.00	\$ 53,790.00
24" HDPE (5-10' Deep)	4146	LF	\$ 80.00	\$ 331,680.00
48" RCP (6-12' Deep)	46	LF	\$ 255.00	\$ 11,730.00
48" HDPE (1-12' Deep)	3063	LF	\$ 170.00	\$ 520,710.00
Type A Inlet	4	EA	\$ 2,000.00	\$ 8,000.00
48" Manholes, 4-12" deep with casting and marker	13	EA	\$ 4,000.00	\$ 52,000.00
60" Manholes, 4-12' deep with casting and marker	9	EA	\$ 5,000.00	\$ 45,000.00
72" Manholes, 4-12' deep with casting and marker	1	EA	\$ 6,000.00	\$ 6,000.00
48' RCP End Section	1	EA	\$ 5,000.00	\$ 5,000.00
Grass Waterway	7,646	LF	\$10.00	\$ 76,460.00
Demolish Existing Tile	7,344	LF	\$ 20.00	\$ 146,880.00
Clearing	1	LS	\$ 21,500.00	\$ 21,500.00
#53 Crushed Stone	5	TON	\$ 40.00	\$ 200.00



Gravel Drive Repair	1	EA	\$ 500.00	\$ 500.00
HMA Drive Repair	16	SYS	\$ 55.00	\$ 880.00
Fence Repair	4	EA	\$ 2,725.00	\$ 10,900.00
Rip-Rap Armorment	1	LS	\$ 500.00	\$ 500.00
Pipe Bulkhead	1	EA	\$500.00	\$500.00
Seeding	34,300	SYS	\$ 1.00	\$ 34,300.00
Erosion and Sediment Control	1	LS	\$ 20,000.00	\$ 20,000.00
			Subtotal	\$ 1,346,530.00
			15% Contingency	\$ 201,979.50
			Total Cost	\$ 1,548,509.50

Hamilton County Highway Department				
Line Item	Quantity	Unit	Unit Cost	Total Cost
12" RCP (4-9' Deep) [Arm 2 - Mallery Road]	39	LF	\$ 83.00	\$ 3,237.00
24" RCP (4-10' Deep) [Main Drain and Arm 1 - 191 <sup>st</sup> Street]	149	LF	\$ 120.00	\$ 17,880.00
36" RCP (2'-5' Deep) [191 <sup>st</sup> Street Culvert]	37	LF	\$ 180.00	\$ 6,660.00
48" RCP (6-12' Deep) [Main Drain - 196 <sup>th</sup> Street]	71	LF	\$ 255.00	\$ 18,105.00
24" RCP (4-10' Deep) [191 <sup>st</sup> Street Culvert]	29	LF	\$120.00	\$3,480.00
Remove and Reset Existing CMP Culvert	1	EA	\$ 2,000.00	\$ 2,000.00
#53 Crushed Stone	71	TON	\$ 40.00	\$ 2,840.00
HMA Roadway Repair	216	SYS	\$ 55.00	\$ 11,880.00
Maintenance of Traffic	1	LS	\$ 16,100.00	\$ 16,100.00
			Subtotal	\$ 82,182.00
			15% Contingency	\$ 12,327.30
			Total Cost	\$ 94,509.30

<b>Cost Summary</b>	
Total Construction Cost	\$ 1,643,018.80
Appraisal for easements	\$ 2,400.00
Four easement purchases	\$ 26,380.00
<i>Sub-Total</i>	<i>\$ 1,671,798.80</i>
VS Engineering Services	\$ 49,250.00
<i>Total Project Cost</i>	<i>\$ 1,721,048.80</i>

**Project Funding:**

The WS Burnau Drain is part of the FM Musselman Drainage Shed. The WS Burnau Drain shed is comprised of 370.48-acres and includes 50 parcels. The annual maintenance assessment of the FM Musselman Drainage Shed is \$49,316.74. As of February 14, 2018, the maintenance fund balance for the FM Musselman Drainage Shed is \$374,658.73.

The maintenance assessments for the FM Musselman Drainage Shed shall not change due to the proposed reconstruction.

The cost of the work within the rights-of-way of 196<sup>th</sup> Street, 191<sup>st</sup> Street and Mallery Road shall be paid by the Hamilton County Highway Department per IC 36-9-27-71. The lump sum cost to be charged to the Hamilton County Highway Department will be \$ 94,509.30.

The following costs have already been paid for this project.

Payment	Amount	Fund
VS Engineering	\$ 35,570.00	Maintenance Fund
Gerdenich, Maten and Gabor	\$ 2,400.00	GDIF
Easement Acquisition	\$ 26,380.00	GDIF

The remaining \$13,680 for the VS Engineering Contract includes construction staking and as built drawing preparation services.

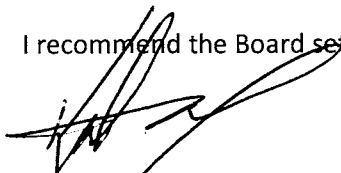
I recommend to the Board that \$100,000.00 of the F. M. Musselman Drainage Fund be utilized towards the cost of this project. I believe that the funds used towards the engineering in the amount of \$35,570.00 be considered part of this amount leaving \$64,430.00 to be expended for the reconstruction.

The benefitted drainage shed for this reconstruction project is 370.48-acres. I have reviewed the benefitted drainage shed and upon considering each parcel individually, I believe each parcel within the drainage shed will have equal benefits by land use as provided by the drain. Therefore, I recommend each tract be assessed as follows:

1. Utilize \$100,000.00 from the maintenance fund.
2. County Highway to pay \$94,509.30 lump sum.
3. Entire Burnau Arm shed be assessed \$4,120.44 per acre.

I also believe that no damages will result to landowners by the reconstruction of this drain. Therefore, damages shall be set at \$0.00.

I recommend the Board set a hearing for this reconstruction for April 23, 2018.



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/pll

**W.S. Burnau Arm to F.M. Musselman**  
**Reconstruction will add 635' to overall footage.**  
 Current Footage Revised Footage  
 Main - tile 5,757 5,524  
 Main - open 360 260  
 Arm 1 - tile 2,037  
 (New) Arm 2 - tile n/a 931  
 Totals: 8,117 8,752

Construction cost estimate: \$1,643,018.80  
 Easement appraisal & purchases: \$ 28,780.00  
 VS Engineering services: \$ 49,250.00  
**Total cost estimate: \$1,721,048.80**

**Reconstruction Funding**  
 Maintenance Funds: \$ 100,000.00  
 County Highway Lump Sum: \$ 94,509.30  
 Assessed to Burnau Arm: \$ 1,526,540.74  
**Total funding: \$ 1,721,050.04**

Reconstruction Hearing: 04/23/18

\*No change in current maintenance assessment.

Property owners on Burnau Arm proposed to be assessed **\$4,120.44 per acre.**

Parcel	Owner	Desc	Ben	Rec. Asmt	Damages	% of Total	Maint. Asmt
10-07-28-00-00-011.000	3 Percent Holdings LLC	S28 T19 R5 30.00Ac	30.00	\$123,613.20	Zero	7.63%	*
10-07-28-00-00-012.000	3 Percent Holdings LLC	S28 T19 R5 4.00Ac	4.00	\$16,481.76	Zero	1.02%	*
10-07-28-00-00-006.000	Adams, Barbara A Lvg Trust	S28 T19 R5 5.06Ac	5.06	\$20,849.44	Zero	1.29%	*
10-07-28-00-00-007.000	Adams, Dennis & Michael TR of Barbara Adams Family	S28 T19 R5 40.00Ac	37.36	\$153,939.64	Zero	9.50%	*
10-07-28-00-00-005.001	Adams, Mike L	S28 T19 R5 6.15Ac	4.06	\$16,729.00	Zero	1.03%	*
10-07-28-00-00-005.101	Adams, Mike L	S28 T19 R5 6.19Ac	5.29	\$21,797.14	Zero	1.34%	*
10-07-28-00-00-007.001	Boyce Land Co Inc	S28 T19 R5 59.00Ac	51.43	\$211,914.24	Zero	13.07%	*
10-07-28-00-00-008.000	Boyce Land Co Inc	S28 T19 R5 3.80Ac	3.03	\$12,484.94	Zero	0.77%	*
12-07-27-00-00-015.000	Canterbury Estates	S27 T19 R5 77.68Ac	62.39	\$257,074.26	Zero	15.86%	*
10-07-28-00-00-026.000	Clark, Joseph D	S28 T19 R5 Kentre Meadows 1st Lot 8	0.51	\$2,101.42	Zero	0.13%	*
10-07-28-00-00-006.002	Cook, Paul & Jaclyn R	S28 T19 R5 5.01Ac	5.01	\$20,643.40	Zero	1.27%	*
10-07-28-00-00-023.000	Dent, Jeffrey T & Lori L h&w	S28 T19 R5 Kentre Meadows 1st Lot 11	0.46	\$1,895.40	Zero	0.12%	*
10-07-21-00-00-032.000	Derival, Robert R	S21 T19 R5 1.05Ac	1.05	\$4,326.46	Zero	0.27%	*
10-07-28-00-00-024.000	Fowler, Fredrick D & Diana L	S28 T19 R5 Kentre Meadows 1st Lot 10	0.46	\$1,895.40	Zero	0.12%	*
10-07-28-00-00-005.000	Goodwin, Donald L & Wanda D	S28 T19 R5 14.44Ac	14.44	\$59,499.16	Zero	3.67%	*
10-07-28-00-00-025.000	Grace Enterprises LLC	S28 T19 R5 Kentre Meadows 1st Lot 9	0.46	\$1,895.40	Zero	0.12%	*
10-07-28-00-00-006.001	Graves, Bradley J & Theresa L	S28 T19 R5 5.00Ac	3.46	\$14,256.72	Zero	0.88%	*
10-07-28-00-00-006.003	Gustin, Christian R & Andrea R h&w	S28 T19 R5 5.02Ac	5.02	\$20,684.62	Zero	1.28%	*
99-99-99-99-99-999.001	Hamilton County Highway Department	S21,27 & 28 T19 R5 - Lump Sum	n/a	\$94,509.30	Zero	5.83%	*
99-99-99-99-99-999.001	Hamilton County Highway Department	S21,27 & 28 T19 R5	25.53	\$105,194.84	Zero	6.49%	*
10-07-28-00-00-027.000	Hazelwood, Alfred L & Carol A	S28 T19 R5 Kentre Meadows 2nd Lot 7	0.46	\$1,895.40	Zero	0.12%	*
10-07-28-00-00-010.000	Kopczynski, Deborah & Eugene	S28 T19 R5 1.00Ac	1.00	\$4,120.44	Zero	0.25%	*
10-07-28-00-00-005.002	Latty, Michael D & Cynthia R	S28 T19 R5 12.22Ac	12.22	\$50,351.78	Zero	3.11%	*
10-07-28-00-00-035.001	Martin, Miranda S	S28 T19 R5 3.00Ac	0.48	\$1,977.82	Zero	0.12%	*
10-07-21-00-00-031.000	May, Rene & Terry	S21 T19 R5 4.40Ac	2.32	\$9,559.42	Zero	0.59%	*
10-07-21-00-00-031.001	May, Rene & Terry A	S21 T19 R5 1.00Ac	1.00	\$4,120.44	Zero	0.25%	*
10-07-28-00-00-016.000	McLane, Michael J & Marshelia A	S28 T19 R5 Kentre Meadows 2nd Lot 18,19	0.92	\$3,790.80	Zero	0.23%	*
10-07-28-00-00-009.000	Morgan, Ronald L & Barbara A	S28 T19 R5 1.30Ac	1.30	\$5,356.58	Zero	0.33%	*
10-07-21-00-00-027.000	Murdock, Family Trust	S21 T19 R5 18.23Ac	12.38	\$51,011.06	Zero	3.15%	*
12-07-27-00-00-001.000	Murdock, Larry C & Sue Ann	S27 T19 R5 0.54Ac	0.05	\$206.02	Zero	0.01%	*
10-07-28-00-00-017.000	Ogden, Melvin R & Karen E h&w	S28 T19 R5 Kentre Meadows 2nd Lot 17	0.46	\$1,895.40	Zero	0.12%	*
10-07-28-00-00-014.003	Ogle, Jeffrey A & Mary A	S28 T19 R5 5.00Ac	5.00	\$20,602.20	Zero	1.27%	*
12-07-27-00-00-014.000	Parker, Steven & Hollie h&w	S27 T19 R5 27.44Ac	10.44	\$43,017.40	Zero	2.65%	*
10-07-28-00-00-021.000	Peterson, Susan C	S28 T19 R5 Kentre Meadows 1st Lot 13,14	0.92	\$3,790.80	Zero	0.23%	*

Parcel	Owner	Desc	Ben	Rec. Asmt	Damages	% of Total	Maint. Asmt
10-07-21-00-00-029.000	Promise Road WEG LLC	S21 T19 R5 29.08Ac	3.35	\$13,803.48	Zero	0.85%	*
10-07-21-00-00-033.000	Puckett, Patrick C & Dedra T/E	S21 T19 R5 1.00Ac	0.62	\$2,554.68	Zero	0.16%	*
10-07-21-00-00-030.000	Ragsdale, Sondra	S21 T19 R5 1.20Ac	1.20	\$4,944.54	Zero	0.31%	*
10-07-28-00-00-018.000	Roth, Mark R	S28 T19 R5 Kentre Meadows 2nd Lot 16	0.60	\$2,472.26	Zero	0.15%	*
10-07-28-00-00-035.000	Roth, Mark R	S28 T19 R5 26.04Ac	13.87	\$57,150.50	Zero	3.53%	*
10-07-28-00-00-011.001	Roudebush, Michael E & Pati A	S28 T19 R5 6.00Ac	6.00	\$24,722.64	Zero	1.53%	*
12-07-27-00-00-014.001	Roudebush, Michael E & Pati A	S27 T19 R5 0.56Ac	0.56	\$2,307.46	Zero	0.14%	*
10-07-28-00-00-019.000	Rusher, Karon	S28 T19 R5 Kentre Meadows 1st Lot 15	0.67	\$2,760.70	Zero	0.17%	*
10-07-28-00-00-022.000	Smith, Rex A & Vicky Lynn Smith	S28 T19 R5 Kentre Meadows 1st Lot 12	0.46	\$1,895.40	Zero	0.12%	*
10-07-28-00-00-015.000	Spear, Brian & Stephanie h&w	S28 T19 R5 40.00Ac	8.00	\$32,963.52	Zero	2.03%	*
12-07-27-00-00-013.000	Stomberg, Dwight William & Irene Schafer Stomberg	S27 T19 R5 12.00Ac	3.00	\$12,361.32	Zero	0.76%	*
12-07-27-00-00-015.001	Wende, Pamela Sue & Boyd L Crecellius	S27 T19 R5 2.32Ac	2.32	\$9,559.42	Zero	0.59%	*
10-07-28-00-00-013.000	Wethington, Ellen J & Ivan O Roudebush TC	S28 T19 R5 5.00Ac	5.00	\$20,602.20	Zero	1.27%	*
10-07-28-00-00-014.000	Wethington, Ellen J & Ivan O Roudebush TC	S28 T19 R5 9.00Ac	0.40	\$1,648.18	Zero	0.10%	*
12-07-27-00-00-012.000	Wethington, Ellen J & Ivan O Roudebush TC	S27 T19 R5 40.00Ac	11.00	\$45,324.84	Zero	2.80%	*
10-07-28-00-00-014.004	Wethington, Gene E & Denise L	S28 T19 R5 5.00Ac	5.00	\$20,602.20	Zero	1.27%	*
10-07-28-00-00-028.000	Williams, Stephen L & Patricia	S28 T19 R5 Kentre Meadows 2nd Lot 6	0.46	\$1,895.40	Zero	0.12%	*
Parcels: 50			370.48	\$1,621,050.04		100.0%	
				Maintenance Funds: \$100,000.00			
				Total funds: \$1,721,050.04			

JUN 02 2015

To: Hamilton County Drainage Board

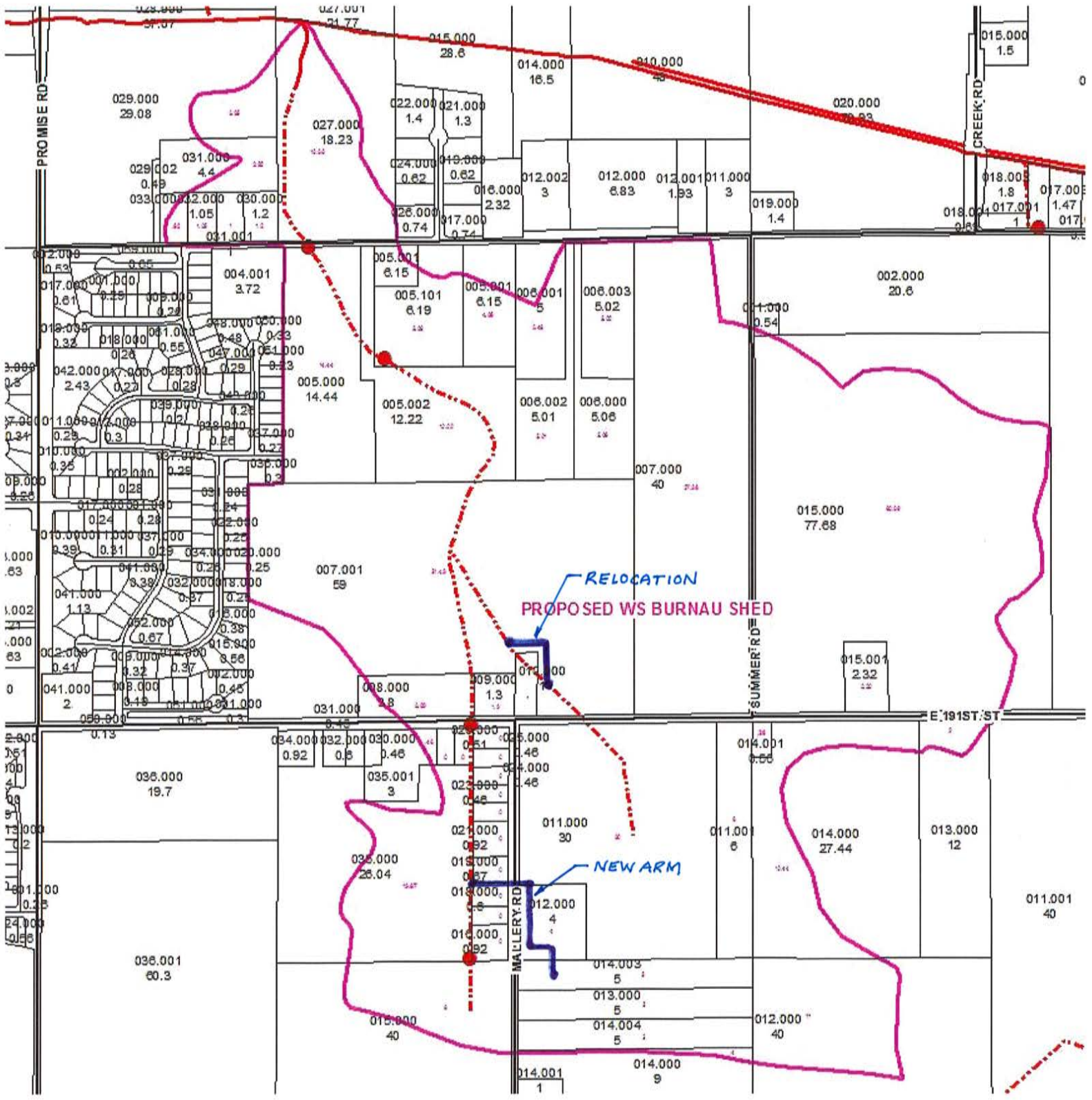
OFFICE OF HAMILTON COUNTY SURVEYOR

Re: In the matter of the FM Mussleman Drain, WS Burnau Arm Drain Petition

Comes now the undersigned individuals, who petition the Hamilton County Drainage Board, per IC 36-9-27, for the reconstruction of the above referenced regulated drain. The undersigned believe the following:

1. They are owners of ten percent (10%) in acreage or more of land area alleged by the petition to be affected by the drain.
2. That as property owners within the drainage shed, they are qualified petitioners.
3. That they now desire that a regulated drain be reconstructed in Noblesville/Wayn Township.
4. The names and address of each owner affected by the proposed public drainage are attached hereto, made a part hereof, and marked Exhibit "A", which area of land involved in the proposed drainage area is located in section 21, township 19 north, range 4 east, Hamilton County, Indiana. 27&28
5. That the proposed reconstruction consists of replacing the existing old undersized tile with new drain.  
The main Burnau Arm drain to be reconstructed from Sta 0+00 to confluence with FM Mussleman Ditch.  
Arm 1 to be reconstructed from south side of 191st right-of-way to the confluence with main Burnau drain.
6. That in the opinion of the Petitioner, the costs, damages, and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land to be benefited thereby.
7. That in the opinion of the Petitioner, the proposed improvement will improve the public health; benefit a public highway; and be of public utility.
8. That Petitioners shall pay the cost of notice and all legal costs including engineering expense if the petition is dismissed.
9. Petitioners shall post a bond, if required, to pay the cost of notice and all legal costs in the case the improvement is not established.

Signature	Printed Name	Printed Address
<i>Cynthia Latty</i>	Cynthia Latty	11395 E. 196th St. Noblesville
<i>Don Goodwin</i>	Don Goodwin	11345 E 196th
<i>Fred Fowles</i>	Fred Fowles	19040 Mallery rd Noblesville
<i>April</i>	April	18953 M Mallery
<i>Cyan Fisher</i>	Cyan Fisher	18953 Mallery Rd
<i>Jeff Ogden</i>	Jeff Ogden	18970 Mallery Rd
<i>Steven B. Wampler</i>	STEVEN B. WAMPLER	11655 E. 191st 46060
<i>Brent Wampler</i>	BRENT WAMPLER	11655 E 191st 46060



RELOCATION  
PROPOSED WS BURNAU SHED

NEW ARM

029.000 29.08  
027.000 18.23  
022.000 1.4  
021.000 1.3  
015.000 28.6  
014.000 16.5  
010.000  
020.000  
015.000 1.5  
018.000 1.8  
017.000 1.47  
017.000  
031.000 4.4  
029.002 0.69  
033.000 1.05  
032.000 1.2  
030.000  
031.001  
024.000 0.62  
019.000  
016.000 3  
012.002  
012.000 6.83  
012.001 1.93  
011.000 3  
019.000 1.4  
018.000  
017.001 1  
017.000  
004.001 3.72  
005.001 6.15  
005.101 6.19  
005.001 6.15  
005.001 5  
006.003 5.02  
011.000 0.54  
002.000 20.6  
007.000 40  
015.000 77.68  
015.001 2.32  
007.001 58  
008.000 3.8  
009.000 1.3  
010.000  
011.000 30  
011.000 6  
014.001 6.55  
014.000 27.44  
013.000 12  
011.001 40  
036.000 19.7  
034.000 0.92  
032.000 0.5  
030.000 0.46  
025.000 0.48  
024.000 0.48  
023.000 0.48  
021.000 0.92  
020.000 0.92  
018.000 0.92  
016.000 0.92  
015.000 40  
014.003 5  
013.000 5  
014.004 5  
012.000 40  
014.001 1  
014.000 9