



SURVEYOR'S OFFICE

Hamilton County

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

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

February 8, 2017

To: Hamilton County Drainage Board

Re: William Knight Drain, Marcum Arm

Attached is a drain map and the original petition filed by Doris Marcum for an Arm to the William Knight Regulated Drain located in Washington Township, Section 11, Township 18 North, Range 3 East.

History

The original petition was presented to the Board on February 10, 2014 (see Hamilton County Drainage Board Minutes Book 15, Pages 342-244) to regulate an existing 10 inch diameter private drain tile which connects to the William Knight Regulated Drain. At that meeting it was stated that the existing 10-inch tile was clay material and 358-feet in length on Parcel #08-09-11-00-00-021.000 owned by Doris M. Marcum, 203 E. 161st Street, Westfield, IN 46074, located in Washington Township, Section 11, Township 18 North, Range 3 East.

A public hearing for the petition was held on April 28, 2014. A report from the Hamilton County Surveyor was presented at this meeting. There was discussion concerning the petition and the item was tabled to the next Board meeting on May 12, 2014 (see Hamilton County Drainage Board Minutes Book 15, Pages 398-401).

There was further discussion concerning the petition at the May 12, 2014 Board meeting and the item was tabled to a future date (see Hamilton County Drainage Board Minutes Book 15, Page 408).

At the Board meeting on November 10, 2014, a report by the Hamilton County Surveyor dated November 3, 2014 was presented to the Board. The report indicates, among other things, (1) that the area is experiencing increased precipitation amounts as well as increased rainfall intensities; (2) that the development to the north of 161st Street has managed the runoff and lowered the peak flow draining through the Marcum property; (3) that a surface swale along the west property line would be more costly than replacing the existing pipe; and (4) that it is likely that the age of the 10-inch tile and the increases in precipitation amounts has led to the deteriorating condition of the tile. The item was tabled to a future date. (see Hamilton County Drainage Board Minutes Book 16, Pages 2-6).

On November 14, 2014, the Hamilton County Surveyor met with representatives of the City of Westfield to discuss the possibility of cost sharing for the construction of a drainage outlet for future improvements to 161st Street across the Marcum property.

At the Board meeting on January 12, 2015, the matter was discussed and road drainage issues within the right-of-way of 161st Street were identified and the original petition was approved (see Hamilton County Drainage Board Minutes Book 16, Pages 78-79).

The Hamilton County Surveyor and several members of his staff met with representatives of the City of Westfield to discuss the project on March 22, 2016. The Surveyor was to provide to the City the topographic survey information from a recent survey completed by the Surveyor for use in establishing a top of casting elevation within the 161st Street right-of-way for drainage of future roadway improvements. This meeting was summarized for the Board at the meeting on March 28, 2016 (see Hamilton County Drainage Board Minutes Book 16, Page 504).

On April 26, 2016, the Hamilton County Surveyor received via email from Phil Sunderling, Project Manager for the City of Westfield, an electronic copy of a letter dated April 20, 2016 from Mayor J. Andrew Cook, Mayor of the City of Westfield to Kenton C. Ward, Surveyor that outlined the commitment of the City of Westfield to provide the 50% share in cost for the project and indicating that the project will provide an immediate solution to the issues being experienced on the Marcum property as well as providing a positive outlet to convey standing water from 161st Street that has been an issue for many years.

A progress update on this project was provided to the Board on May 9, 2016. It was agreed that the project has become more than a private drain petition. Westfield will drain the future road improvements to this area and will need an outlet. It was also stated that Westfield has agreed to pay half the cost of the project (see Hamilton County Drainage Board Minutes Book 15, Page 554).

Existing Tile

The age of the existing, private 10" clay private tile is not known. The tile discharged to the William Knight Regulated Drain at the former Station 13+77. The tile was intercepted at a new structure (Structure 112) that was constructed with the recent William Knight Reconstruction project. The tile runs from Structure 112 to the north/northwest approximately 360 feet to the west property line of parcel #08-09-11-00-00-021.000. There are several holes in the soil above the existing tile on the Marcum property. There are two complaints on file for this tile: The first on May 13, 2009 from Doris Marcum and the second on August 19, 2013 from Doris Marcum.

Project Summary

The project includes the installation of 552.75-LF of 18" HDPE Pipe and two 48" manholes. The new tile will be connected to the new structure installed with the recent William Knight Reconstruction project (Structure 112). From this structure, the first 215-LF follows the alignment of the existing 10-inch tile to the north/northwest. The tile then continues an additional 69.03-LF off of the alignment of the existing tile to Structure 113 where the tile turns north, parallel to the property line, a distance of 268.72-LF to Structure 114 at the south right-of-way of 161st Street. The existing tile continues to the west off of the Marcum property approximately 72-LF north of Structure 113. The existing tile will be connected to the new tile at this location. The design of the new tile system allows for future movement of the tile to the west and south property lines while maintaining a reasonable slope in the tile in the event that the tile is moved as the property is developed.

No part of the existing tile will become a part of the regulated drain system. The tile on the Marcum property that will be part of the regulated drain will be new tile.

Easement

A Regulated Drain easement is needed over the new tile and will need to be recorded. The new easement will be 30-feet in width (centered on the proposed tile) and run solely on Parcel #08-09-11-00-00-021.000. The Surveyor is of the opinion that a 30-foot width easement is adequate for future maintenance of this tile. Ms. Marcum has already indicated verbally that they would be willing to dedicate such easement at no cost to the County. A meeting has been scheduled with Ms. Marcum on February 9, 2017 to execute the easement.

Permits

No permits are required for this project. The Surveyor will confirm if approval of the construction entrance from 161st Street is required from the City of Westfield.

Project Cost

The estimated cost of the project is itemized below. Survey, Design and Construction Plan production was completed by staff from the Hamilton County Surveyor's Office. Construction staking and development of As-Built drawings of the completed project will be completed by the Hamilton County Surveyor's Office. As such, there are no costs for these services in the itemized project cost below.

<i>Line Item</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
12" HDPE (0-5' Deep)	15	LF	\$17.75	\$266.25
18" HDPE (0-5' Deep)	552.75	LF	\$26.88	\$14,857.92
48" Manholes	2	EA	\$3,600.00	\$7,200.00
Castings	2	EA	\$400.00	\$800.00
Tree Removal	4	EA	\$1,250.00	\$5,000.00
Disposal of Excess Soil Material	180	CY	\$20.00	\$3,600.00
Erosion Control	1	LS	\$1,620.00	\$1,620.00
Clearing (14,000-SF)	1	LS	\$1,500.00	\$1,500.00
Shaping New Berm	1	LS	\$1,000.00	\$1,000.00
Wye Tile Connection	2	EA	\$500.00	\$1,000.00
Existing Tile Removal and backfill	132	LF	\$5.00	\$660.00
5" clay tile connection	1	EA	\$250.00	\$250.00
Swale grading	553	LF	\$3.00	\$1,659.00
Fence Repair	1	EA	\$2,725.00	\$2,725.00
Seeding with Watering (0.3-acres)	1	LS	\$2,500.00	\$2,500.00
			Subtotal	\$44,638.17
			15% Contingency	\$6,695.73
			Engineering	\$-
			Survey	\$-
			Construction Staking	\$-
			As-Builts	\$-
			Total Cost	\$51,333.90

Project Funding

Per a letter from Mayor Andy Cook dated April 20, 2016, the City of Westfield has agreed to pay for 50% of the cost of the project, which is equal to \$25,666.95. In the opinion of the Hamilton County Surveyor, the maintenance fund balance for the Cool Creek Drain (#345) exceeds the amount reasonably needed for maintenance within the watershed in the foreseeable future. Therefore, the Surveyor recommends that a portion of this balance be transferred to this reconstruction project. The maintenance fund transfer is as outlined in IC 36-9-27-45.5. The current maintenance fund balance for the Cool Creek Drain is \$1,332,932.58 and up to \$25,666.95 will be transferred for this project.

Changes to the Drain

The project will be known as the Marcum Arm to the William Knight Drain and will be 552.75-feet in length and will increase the length of the William Knight Drain by 552.75-feet.

Maintenance of Drain

The Surveyor also believes that the proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

Benefitted Parcels

Parcels benefitted by this drain are currently assessed for the Cool Creek Drain. Therefore no changes in the current assessment shall be required.

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


The following tracts are affected by the proposed arm:

Parcel	Owner
08-09-11-00-00-021.000	Marcum, Doris M
08-09-11-00-00-020.000	Ferraro, Joseph P. and Georgia A.
161 st Street R/W	City of Westfield, Indiana

The project will (1) provide an outlet for the drainage system of the future improvements to 161st Street; (2) intercept storm water runoff that drains from north to south under 161st Street; (3) will resolve an issue of standing water on the north side of 161st Street due to the 161st Street culvert being submerged on the south side of 161st Street; and (4) will resolve the issues being experienced by Ms. Marcum.

I recommend that the Board set a hearing for this proposal for March 27, 2017.

Sincerely,


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

KCW

To: Hamilton County Drainage Board

Re: In the matter of the William Knight Drain Petition

Comes now the undersigned individuals, who petition the Hamilton County Drainage Board, per IC 36-9-27-54, for a new regulated drain. The undersigned believe the following:

1. They are owners of ten percent (10%) in acreage; or twenty five percent (25%) or more of the assessed valuation of the land that is outside the corporate boundaries of a municipality and is alleged by the petition to be affected by the proposed drain.

2. That as property owners within the drainage shed, they are qualified petitioners.

3. That they now desire that a regulated drain be established in WASHINGTON Township, which involves the following public roads; 161st STREET and various areas surrounding these roads in the drainage shed.

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 11, township 18 north, range 3 east, Hamilton County, Indiana.

5. No other public lands or owners are located in the area which would affect improvement.

6. That the general route of the proposed drain is shown in the attached plan which is marked Exhibit "B" and made a part hereof.

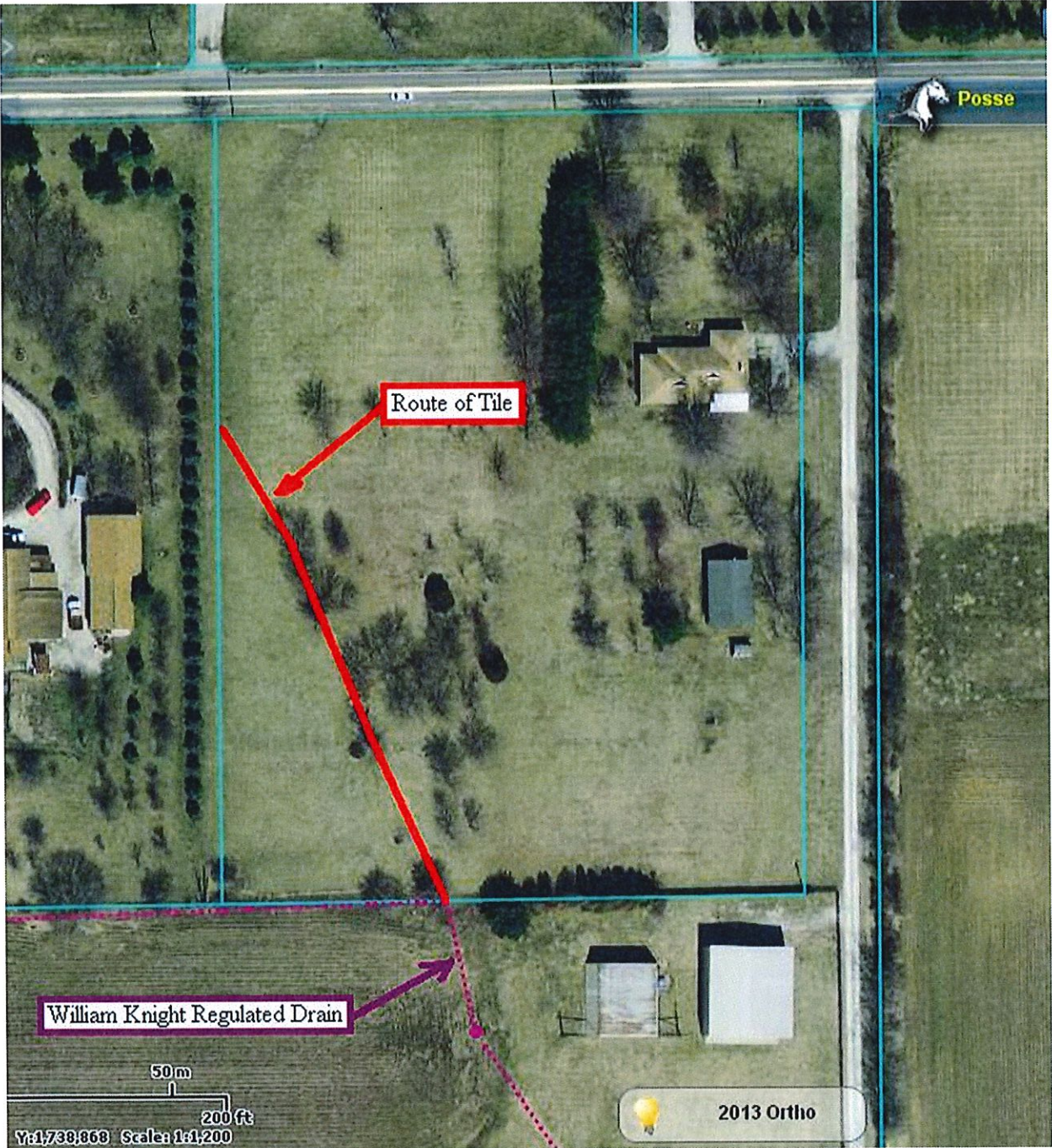
7. That in the opinion of the Petitioner, the costs, damages, and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land to be benefited thereby.

8. That in the opinion of the Petitioner, the proposed improvement will improve the public health; benefit a public highway; and be of public utility.

Signature	Printed Name	Printed Address
<u>Paris M. Marcum</u>	<u>PARIS M. MARCUM</u>	<u>2038-161st St. Westfield, IND.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

1-8-14

EXHIBIT B



M/C
⑥
14 Feb

2017005961 EASEMENTS \$0.00
02/09/2017 10:55:07A 6 PGS
Jennifer Hayden
HAMILTON County Recorder IN
Recorded as Presented

DOCUMENT CROSS REFERENCE #2000055627

DRAINAGE EASEMENT

THIS INDENTURE WITNESSETH: That **Doris M. Marcum, as trustee of the James C. Marcum & Doris M. Marcum Revocable Living Trust**, (referred to herein as the "Grantor") for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby convey to the Board of Commissioners of Hamilton County, ("Grantee") a non-exclusive perpetual easement through, upon, over, along and across the following described real property located in Hamilton County, Indiana, ("the Easement") to-wit;

See Exhibit A and Exhibit B

This Easement is granted for the purpose of providing overland or subsurface paths and courses for the construction, maintenance, preservation of storm drainage. The Grantor reserves for themselves and their successors and assigns the right to use the Easement for any uses which are not inconsistent with the purposes herein. However, in the event the Grantor, or their successors, elect or desire to do any construction or alterations to the Real Estate within the Easement, they shall do so only upon approval of the Grantee. The Grantor further agrees that they shall not grant any easements to any other utilities, or other persons, through the real estate described herein, without the consent of the Grantees, and if said grants are given, those easements shall be subject to the Grantee's rights to regulate and permit construction or alteration with the Easement.

In the event the Grantee, its employees, or contractors are required to come upon the real estate contained in the Easement to replace, restore, or clear any drainage structures, ditches, drains, or swales contained therein, the Grantee shall only be liable to restore the Grantor's real estate to its previous grade, and to reseed and undertake erosion control measures as are required by 327 IAC15-5 as amended. The Grantee, its employees, or contractors shall not be liable to Grantor, or his successor in title, for any improvements to the real estate, landscaping, sod, or any

other improvements within the Easement which are damaged in the course of the repair of the drainage structure, ditches, drains, or swales contained in the Easement area.

This Drainage Easement and the agreements herein shall run with the land and shall be binding upon and inure to the benefit of the Grantor and its successors and assigns and upon the Grantee and its successors.

IN WITNESS WHEREOF, The Grantor has executed this Drainage Easement on this 9th day of February 2017

GRANTOR

Doris M. Marcum

Doris M. Marcum, as trustee of the James C. Marcum & Doris M. Marcum Revocable Living Trust

STATE OF INDIANA)
) SS:
COUNTY OF HAMILTON)

Subscribed and sworn to before me, a Notary Public this 9th day of February, 2017 personally appeared the within named **Doris M. Marcum** and acknowledged the execution of the foregoing document.

WITNESS my hand and official seal



Janet M. Hansen

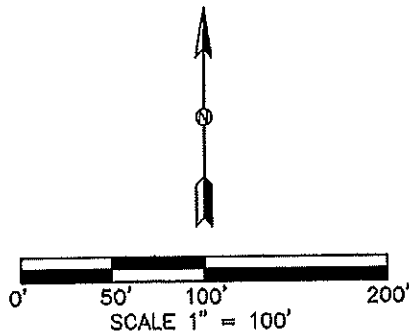
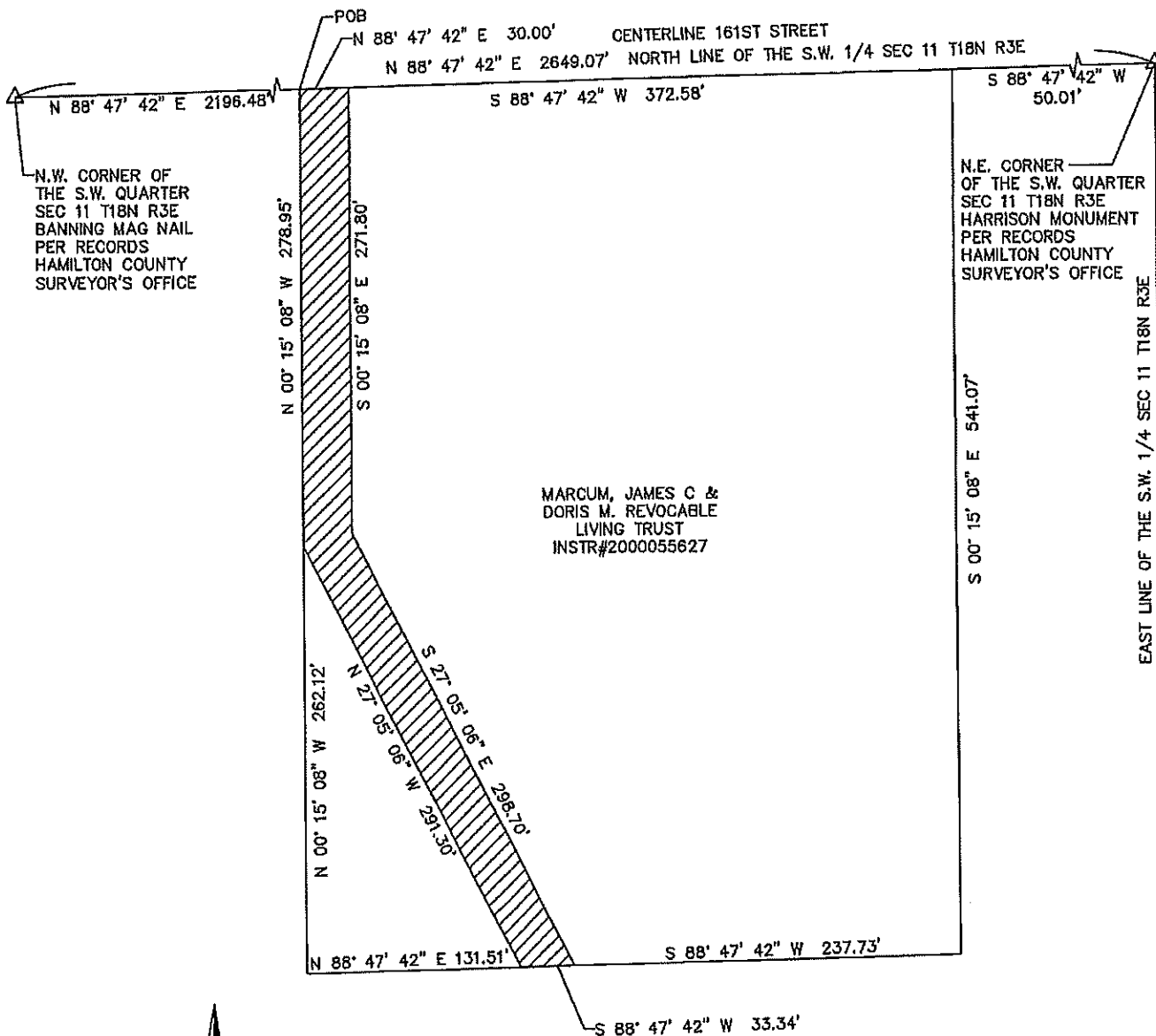
Notary Public,
Residing in Hamilton County, IN

My Commission Expires: June 23, 2024

This instrument prepared by Michael A. Howard, Attorney at Law, 694 Logan Street, P.O. Box 309, Noblesville, Indiana 46060, (317) 773-4212.

I, Gary R. Duncan, Jr., affirm, under the penalties for perjury, that I have taken reasonable care to redact each social security number in the document, unless required by law.

EXHIBIT A



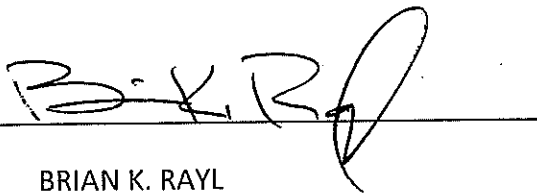
HAMILTON COUNTY, INDIANA
 HAMILTON COUNTY SURVEYOR'S OFFICE
 HAMILTON COUNTY GOVERNMENT AND
 JUDICIAL CENTER
 ONE HAMILTON COUNTY SQUARE, SUITE 188
 NOBLESVILLE, IN 46060
 PHONE: (317) 776-8495
 FAX: (317) 776-9628
 SURVEYOR@HAMILTONCOUNTY.IN.GOV

EXHIBIT B

FOR LEGAL DESCRIPTION PURPOSE EASEMENT ONLY
NOT A FIELD SURVEY

COMMENCING AT THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 18 NORTH, RANGE 3 EAST, SAID POINT MARKED BY A BANNING MAG NAIL AND RUNNING THENCE NORTH 88 DEGREES 47 MINUTES 42 SECONDS EAST 2196.48 FEET ALONG THE NORTH LINE OF SAID QUARTER SECTION TO **THE POINT OF BEGINNING** OF THIS DESCRIPTION, SAID POINT ALSO BEING THE NORTHWEST CORNER OF A TRACT OF LAND DESCRIBED BY INSTRUMENT NUMBER 2000055627 SAID POINT ALSO BEING SOUTH 88 DEGREES 47 MINUTES 42 WEST 452.59 FEET WEST OF THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION 11, THENCE NORTH 88 DEGREES 47 MINUTES 42 SECONDS EAST 30.00 FEET ALONG THE NORTH LINE OF SAID SOUTHWEST QUARTER, THENCE SOUTH 00 DEGREES 15 MINUTES 08 SECONDS EAST 271.80 FEET PARALLEL WITH THE EAST LINE OF SAID SOUTHWEST QUARTER, THENCE SOUTH 27 DEGREES 05 MINUTES 06 SECONDS EAST 298.70 FEET TO THE SOUTH LINE OF SAID TRACT OF LAND, THENCE SOUTH 88 DEGREES 47 MINUTES 42 SECONDS WEST 33.34 FEET ALONG THE SOUTH LINE OF SAID TRACT OF LAND AND PARALLELL WITH THE NORTH LINE OF SAID QUARTER SECTION, THENCE NORTH 27 DEGREES 05 MINUTES 06 SECONDS WEST 291.30 FEET TO A POINT ON THE WEST LINE OF SAID AFOREMENTIONED TRACT, THENCE NORTH 00 DEGREES 15 MINUTES 08 SECONDS WEST 278.95 ALONG THE WEST LINE OF SAID TRACT OF LAND PARALLELL WITH THE EAST LINE OF SAID SOUTHWEST QUARTER SECTION TO THE POINT OF BEGINNING; BEING A PART OF THE SOUTHWEST QUARTER OF SECTION 11 TOWNSHIP 18 NORTH, RANGE 3 EAST AND CONTAINING 0.39 ACRES, MORE OR LESS, SUBJECT TO ALL LEGAL RIGHTS OF WAY AND EASEMENTS OF RECORD

BY:



BRIAN K. RAYL
PROFESSIONAL SURVEYOR
INDIANA LICENSE NO. LS20100070
DATE: NOVEMBER 22, 2016



PREPARER'S STATEMENT: I AFFIRM UNDER THE PAINS AND PENALTIES OF PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW. BRIAN K. RAYL

TRUSTEE AUTHORITY AFFIDAVIT

STATE OF INDIANA)

SS:

COUNTY OF Hamilton)

Doris M. Marcum, being first duly sworn upon her oath deposes and says:

That she is Trustee of a trust under an agreement dated the 3 day of NOVEMBER 2000 and pursuant to the Trust agreement she has full authority to manage the affairs of said Trust and sign and execute documents on its behalf, and that her authority has not been revoked; that she is therefore, fully authorized and empowered to convey to the Board of Commissioners of Hamilton County, Indiana real estate of this Trust, and that on the date of execution of said deed it had full authority to so act.

Doris M. Marcum
Trustee Signature

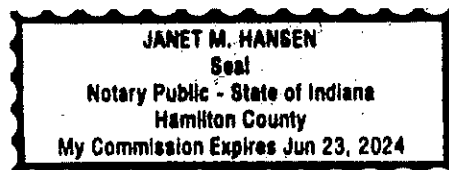
DORIS M. MARCUM
Printed

Subscribed and sworn to before me this 9th Day of February, 2017.

Janet M. Hansen
Notary Public

Janet M. Hansen
Printed

My Commission Expires: June 23, 2024
County of Residence: Hamilton



This instrument prepared by: Michael A. Howard Attorney at Law

I affirm, under the penalties of perjury, that I have taken reasonable care to redact each Social Security Number in the document, unless required by law. Kenton C. Ward

MARCUM



Board of Works
Andy Cook
Randy Graham
Kate Snedeker

Clerk Treasurer
Cindy J. Gossard

April 20, 2016

Hamilton County Surveyor's Office
1 Hamilton County Square
Suite 188
Noblesville, IN 46060

ATTN: Kenton C. Ward, Surveyor

RE: Cool Creek Drain – Marcum Arm

Dear Mr. Ward:

First of all, I want to thank you all for working collaboratively with the City in an effort to improve the drainage along 161st and surrounding watershed. We greatly appreciate your efforts.

Please receive this letter as a commitment on behalf of the City of Westfield to provide the 50% share in cost for the reconstruction of the Marcum Arm through Mrs. Marcum's property along 161st Street. Not only will this immediately solve Mrs. Marcum's safety and drainage issues, but this will provide a positive outlet that will help convey standing water from 161st Street which has been a problem for many years.

If you need anything additional, please let me know.

Sincerely,

J. Andrew Cook
Mayor

Public Works Department

(317) 804-3100 office
(317) 804-3190 fax

2706 East 171st Street
Westfield, IN 46074
westfield.in.gov

cc: Jeremy Lollar, City of Westfield
Phil Sundling, City of Westfield
Wes Rood, City of Westfield
Gary Duncan, HCSO
Andy Conover, HCSO
Luther Cline, HCSO
Brian Rayl, HCSO

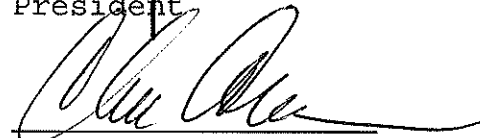
FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
William Knight Drain,
Marcum Arm

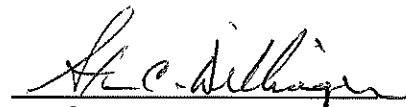
On this 27th day of March, 2017, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *William Knight Drain, Marcum Arm*


Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD


President


Member


Member

Attest: 
Executive Secretary

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
William Knight Drain, Marcum Arm

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *William Knight Drain, Marcum Arm* came before the Hamilton County Drainage Board for hearing on *March 27, 2017*, 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 *William Knight Drain, Marcum 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

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

William Knight Drain, Marcum 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 William Knight Drain, Marcum Arm on March 27, 2017 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 William Knight Drain, Marcum Arm

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **March 27, 2017** 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.

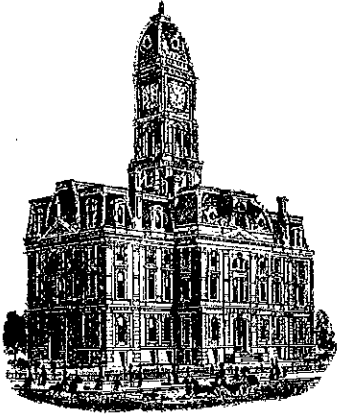
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

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: Mark Heirbrandt
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY



Kent

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

January 3, 2018

To: Hamilton County Drainage Board

Re: Marcum Arm to the William Knight Arm, Cool Creek Regulated Drain
Final Inspection Report

FINAL REPORT

This is the inspector's final report on the Marcum Arm to the William Knight Arm of the Cool Creek Regulated Drain Reconstruction, located in Section 11, Township 18 North, Range 3 East, in Washington Township in Hamilton County, Indiana.

The Surveyor's Report for the Marcum Arm to the William Knight Arm to Cool Creek Regulated Drain dated February 8, 2017 was presented to the Drainage Board and approved at hearing on May 27, 2017. (Hamilton County Drainage Board Minute Book 17, Pages 315-319). The Engineer's Estimate was \$51,333.90. Of this amount Westfield agreed to pay for 50% of the cost of construction. (Minute Book 17, Page 317.)

Bids were opened at the May 22, 2017 meeting, (Minute Book 17, Page 366). The Board awarded the contract for construction of the Marcum Arm to the William Knight Arm to Cool Creek Regulated Drain to Clark Farm Drainage on June 12, 2017 for the amount of \$28,765.77. (Minute Book 17, Pages 375-376).

During construction, two changes were made to the plans, which will alter the plans submitted with the Surveyor's Report for this drain. The changes made, allowed under IC 36-9-27-80.5, were as follows:

Change Order #1 was required because of private tiles that were encountered during construction of the storm drain which per the contract these tiles are required to be connected to the new storm drain. A 6" tile along with 3-4" tiles were found along the route of the new Marcum Arm to the William Knight Drain. Cost of Change Order #1 was \$600.00. The change order was approved by the Hamilton County Drainage Board August 14, 2017. (Minute Book 17, Pages 468-469)

Change Order #2 was required because of the dry weather following hydro seeding of the site. Watering of the site was necessary in order to get the seed established. Cost of Change Order #2 was \$972.00. The change order was approved by the Hamilton County Drainage Board November 13, 2017. (Minute Book 17, Page 545.)

Partial Pay Requests for this project submitted and paid as allowed in IC 36-9-27-81 are as follows:

Pay Request #1 submitted 8/1/17	Paid 9/26/17	\$ 24,960.90
Pay Request #2 submitted 11/7/17	Paid 12/12/17	\$ 826.20
Pay Request #3 Retainage submitted 11/29/17	Paid 12/27/17	\$ 4,550.87
Total Construction Costs – Clark Farm Drainage		\$ 30,337.77

The Final Costs for the Reconstruction are as follows:

Clark Farm Drainage Bid -----	\$ 28,765.77
Change Order #1 -----	\$ 600.00
Change Order #2 -----	\$ 972.00
Reconstruction Cost -----	\$ 30,337.77
Westfield Portion of Cost (50%) -----	\$ 15,168.89
Reconstruction cost of drain from Cool Creek Fund -----	\$ 15,168.88
Total	\$ 30,337.77
Engineer's Estimate -----	\$ 51,333.90
Total Cost -----	\$ 30,337.77
Difference -----	\$ 20,996.13

The City of Westfield was invoiced \$15,168.89 which represented 50% of the total cost. This was paid by the City on December 20, 2017 with check number 37952.

Form E-1 stating that all expenses for labor & materials has been paid as required by IC 36-9-27-82(b) has been received and retainage withheld was released December 27, 2017.

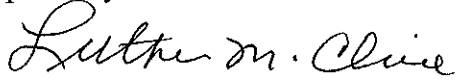
As of the date of this report, I hereby attest to and agree that the reconstruction was completed according to the specified plans and change orders. All inspections have been completed.

Construction staking and asbuilts were done by the Hamilton County Surveyor's Office. Asbuilt plans have been approved.

Easement for the drain was donated by the landowner as outlined in my report to the board, dated February 8, 2017. (Hamilton Count Drainage Board Minute Book 17, Pages 315-319).

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

Respectfully



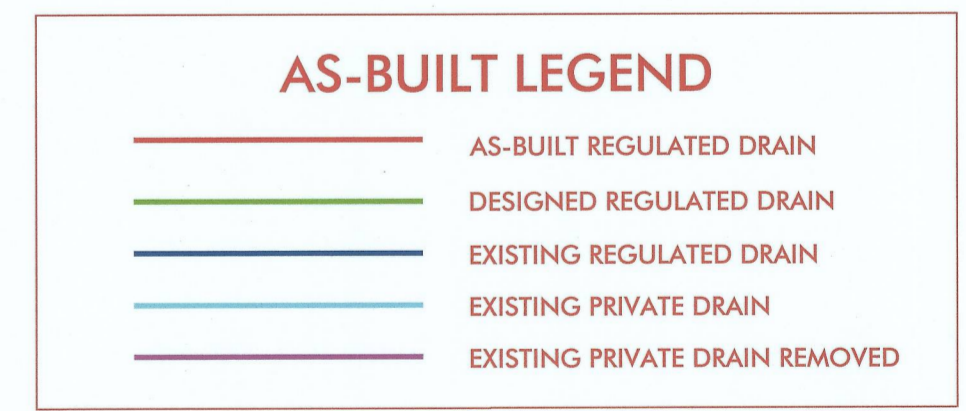
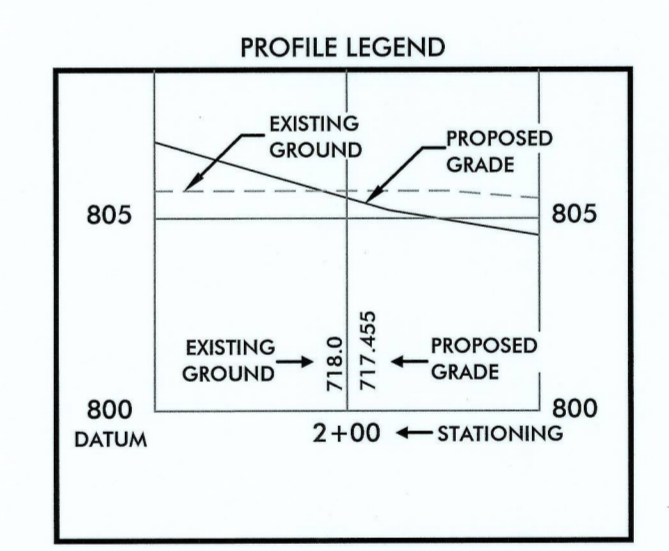
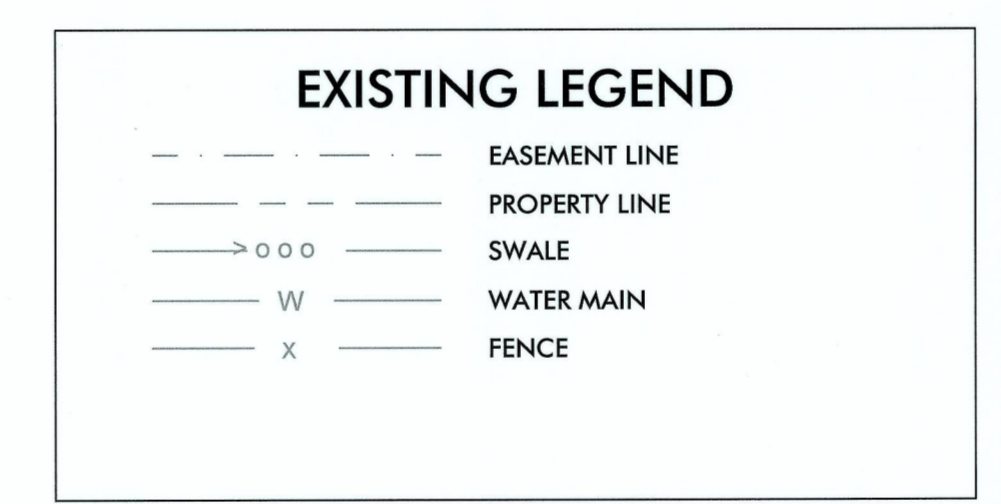
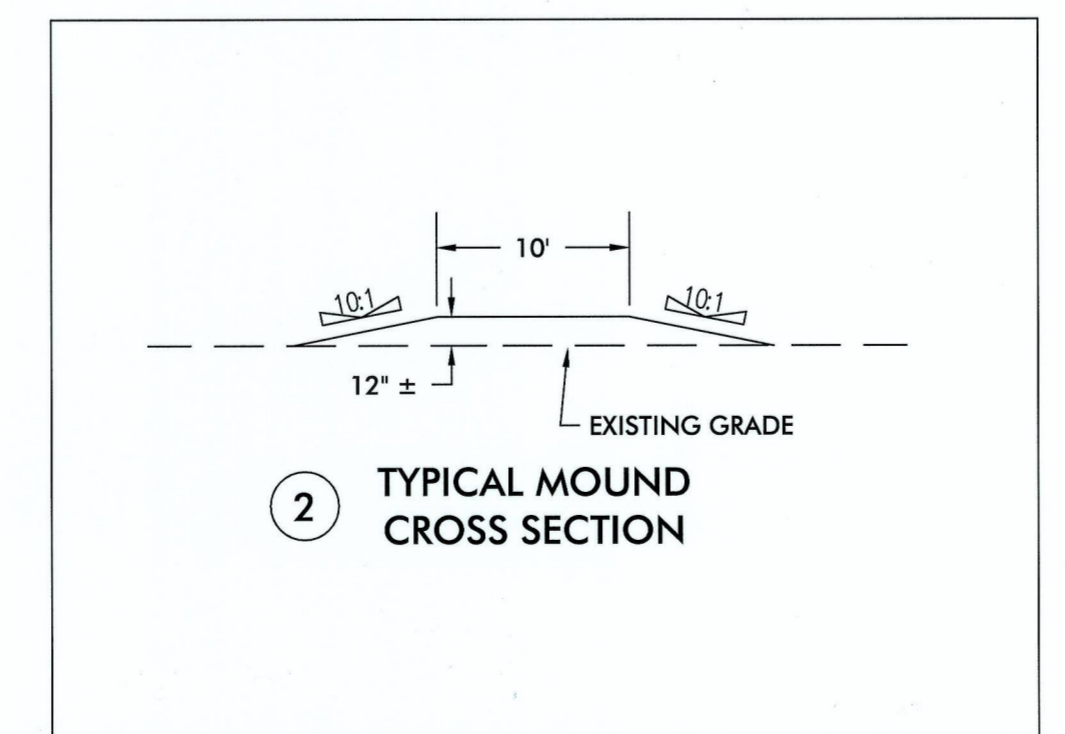
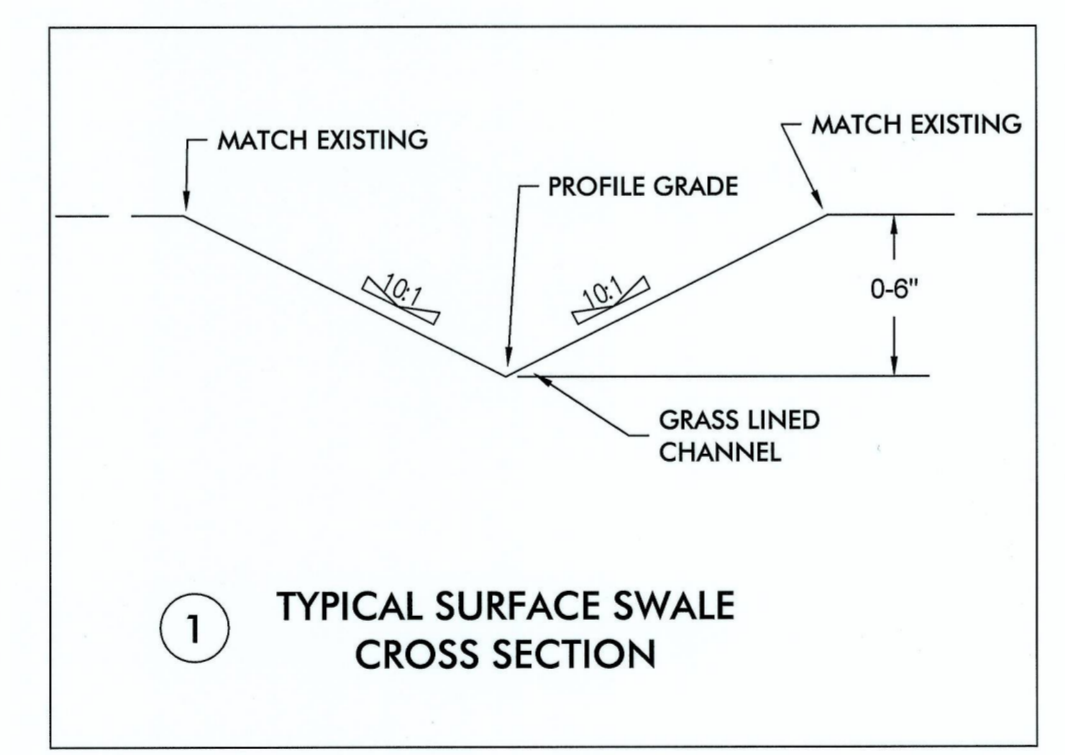
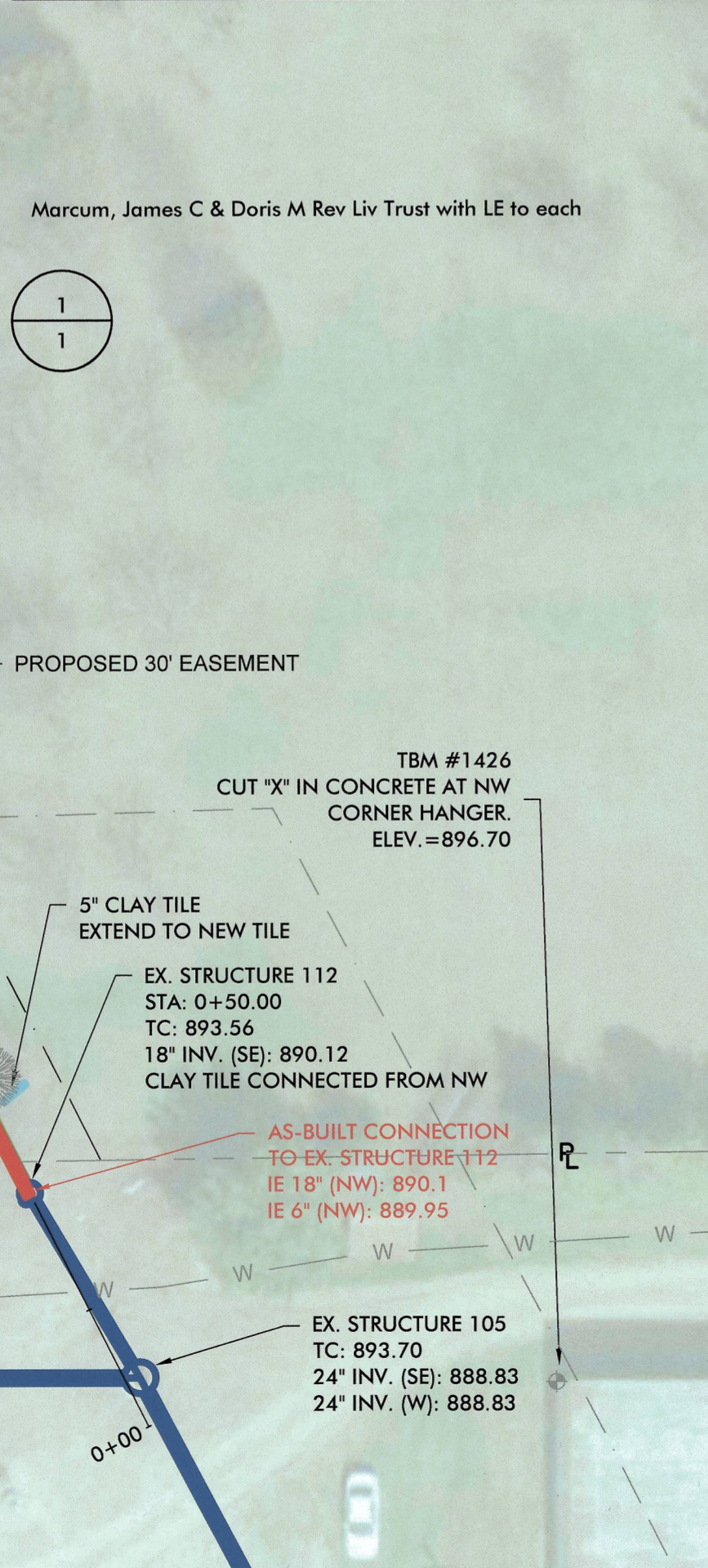
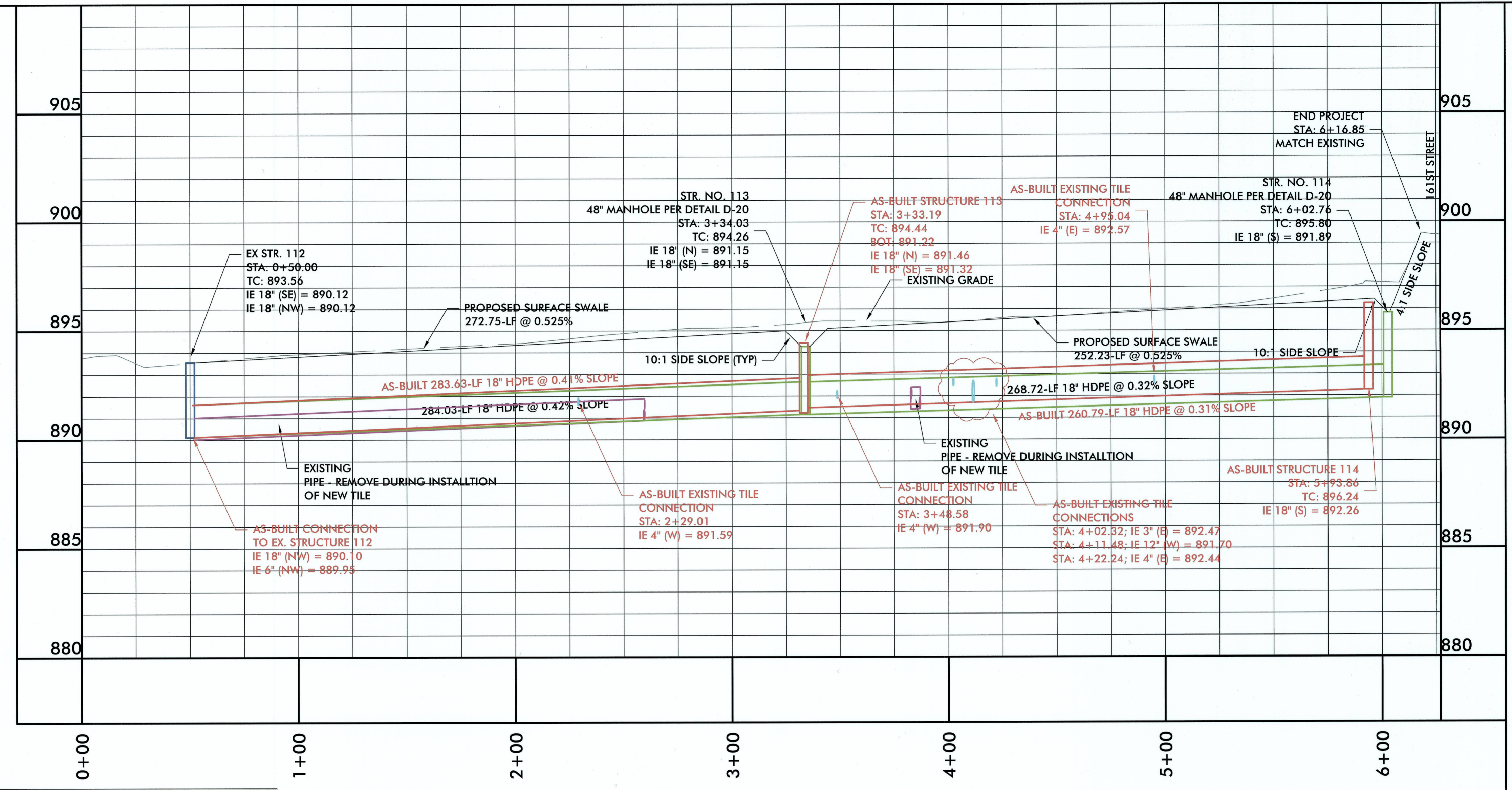
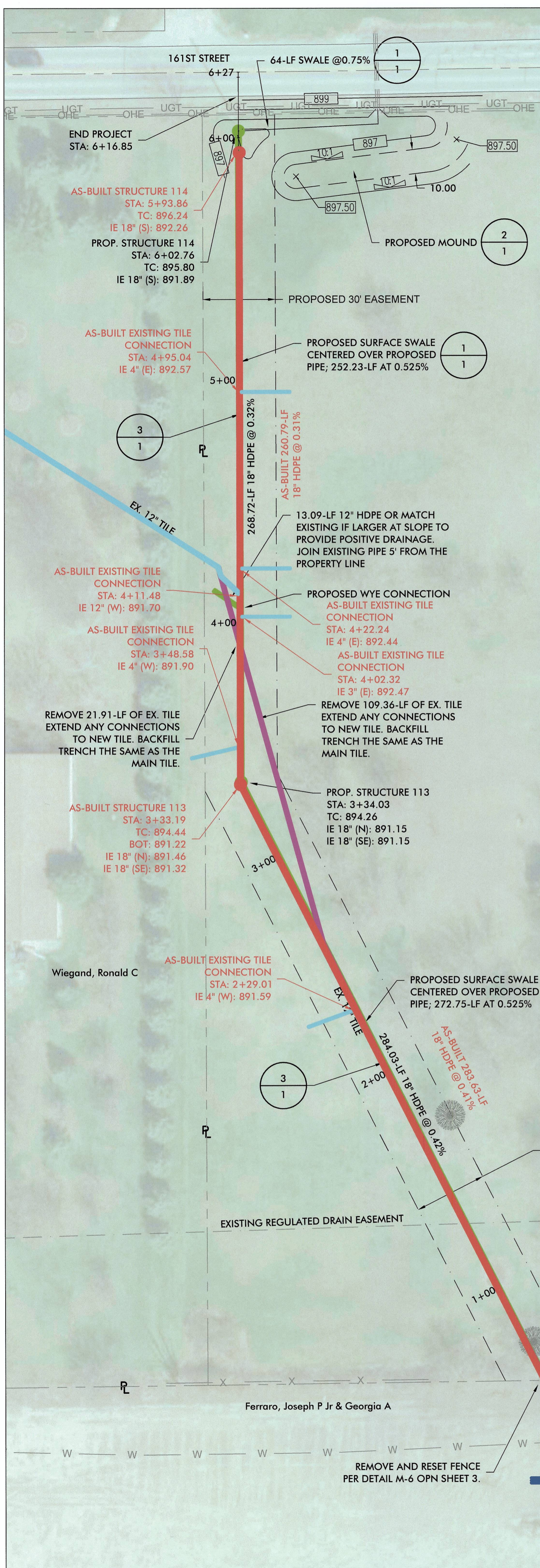
Luther M. Cline

Inspector

Hamilton County Surveyor's Office

Jan 08, 2018 - 3:16 pm

S:\E-Surv\Projects\Regulated Drains\William Knight\Marcum Arm\Civil3D\Production Drawings\1\Marcum As Built.dwg



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: 2018
 Entered By: SLM

BRIAN K. RAYL
 REGISTERED
 No. 20100070
 STATE OF INDIANA
 LAND SURVEYOR

By: *B.K. Rayl*
 BRIAN K. RAYL
 PROFESSIONAL SURVEYOR
 INDIANA LICENSE NO. LS 20100070
 DATE: DECEMBER 15, 2017

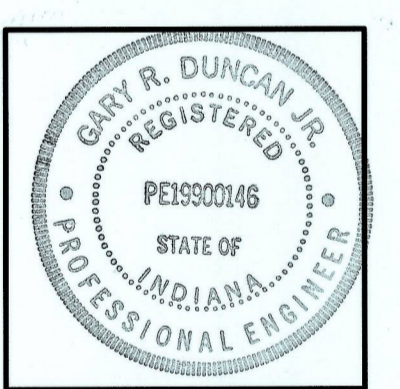
CERTIFIED AS-BUILT INFORMATION ONLY

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:	07-16
WATERSHED NO:	345
FIELD BY:	GD
DRAWN BY:	BR
CHECKED BY:	BR
DATE:	12/15/17

REVISIONS:	
DATE:	
BY:	



CERTIFIED BY:
Gary R. Duncan, Jr.
 GARY R. DUNCAN, JR., P.E.

PROJECT NAME:	WILLIAM KNIGHT REGULATED DRAIN
AS-BUILT	
SHEET NO.	1 OF 1
PLOT DATE:	Jan 08, 2018 - 3:16 pm