

SURVEYOR'S OFFICE
Hamilton County

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

December 14, 2009

TO: Hamilton County Drainage Board

RE: Crooked Creek Drain, North Augusta Arm 2

Attached is a petition filed by the Hamilton County Board of Commissioners, along with plans, calculations, and quantity summary for an arm to the Crooked Creek Drain. This proposed drain is located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described below. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a 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. The drain will consist of the following:

36" RCP – 110 feet

6" SSD - 40 feet

The total length of the drain will be 150 feet.

The drain shall begin at Str. 82 of the Crooked Creek Drain, West Carmel Marketplace Relocation, which is Str. EX1 on the plans by Civil Site Group, dated November 19, 2009, and having job number ADI.001. This structure is within Common Area Block "E" of West Carmel Marketplace, which is parcel 17-13-07-00-24-009.000, owned by West Carmel Marketplace Owners Association, Inc., then continue to Str. 607, then 608, and to Str. 609. Also to be included in the 4 ten foot SSD runs from Structure 607, 608, and 609, which will help with ground water drainage into the drain.

The cost of the arm is to be paid from the 96th Street & US 421 TIF District.

Since this arm to the Crooked Creek Drain is being paid for by the TIF District, surety is not required to be submitted

I believe this 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.

The easement for the drain should be the existing platted drainage easement for Common Area Block "E" of West Carmel Marketplace, and a 30 foot by 30 square easement in the north east corner of parcel 17-13-07-04-01-008.000, owned by Martin Devine. I believe that no damages will result to landowners by the installation and regulating of this drain.

I recommend that the Board set a hearing for this arm on February 22, 2010.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenton C. Ward', written over a faint, illegible printed name.

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

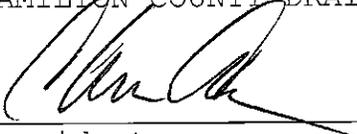
FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE
Crooked Creek Drain, North Augusta Arm 2

On this **22nd day of February 2010**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Crooked Creek Drain, North Augusta Arm 2**.

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.

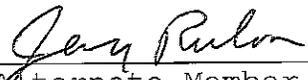
HAMILTON COUNTY DRAINAGE BOARD



President



Member



Alternate Member

Attest: 

Crooked Creek #250

North Augusta Arm 2

Extension frm North Augusta Sec 2 Lot 66 to
West Carmel Marketplace Str. EX1 in CA Blk E

Hearing: February 22, 2010

*Cost of arm to be paid by 96th Street & US 421 TIF District. No change in current maintenance assessment rate.

Parcel	Owner	Description	Benefit	MntAsmt	Percent	Reconstruction
17-13-07-00-24-009.000	West Carmel Marketplace Owners Assoc.	West Carmel Marketplace CA E, 5.41 Ac	*	*	*	*
17-13-07-04-01-008.000	Devine, Martin C	North Augusta 2nd Lot 66	*	*	*	*
Hamilton Co. TIF District	Mike Howard, Administrator	96th St & US421 TIF District	*	*	*	*

IN THE MATTER OF THE CROOKED CREEK DRAIN, NORTH AUGUSTA ARM 2
HAMILTON COUNTY DRAINAGE BOARD

Come now the Board of Commissioners of Hamilton County, who petition the Hamilton County

Drainage Board as follows:

1. They are the duly elected Board of Commissioners of Hamilton County, Indiana.
2. That in that capacity they are responsible for the drainage of public highways.
3. That they now desire that a regulated drain be reconstructed in Clay Township which involves 98th Street and various areas surrounding the road 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 7 Township 17 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 the existing drain tile system as shown in Exhibit "B".
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 benefit a public highway in Hamilton County, Indiana.
9. That the name of the attorney representing Petitioner in the drainage petition is Michael Howard, 694 Logan St., P.O. Box 410, Noblesville, Indiana.
10. That Petitioners shall pay the cost of notice and all legal costs if the Petition is dismissed.
11. Petitioner shall post a bond, if required, to pay the cost of notice and all legal costs in the case the improvement is not established.

Board of Commissioners of
Hamilton County, Indiana

BY: *Steven A. Holt*
Steven A. Holt, President

BY: *Steven C. Dillinger*
Steven C. Dillinger, Member

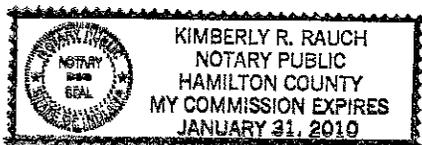
BY: *Christine Altman*
Christine Altman, Member

Attest:

Dawn Coverdale
Dawn Coverdale/Auditor of Hamilton County

STATE OF INDIANA)
) SS:
COUNTY OF HAMILTON)

Subscribed and sworn to before me, A Notary Public this 26 day of October 2009



Kimberly R. Rauch
Notary Public of Hamilton County

My Commission Expires:

1-31-2010

North Augusta Arm #2 Construction Estimate

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1. 36 Inch RCP	110	LFT	\$65.00	\$7,150.00
2. 6 Inch HDPE with Filter Sock	60	LFT	\$25.00	\$1,500.00
3. SSD Riser	1	EA	\$250.00	\$250.00
4. 7' x 7' Reinforced Concrete Box	1	EA	\$3,500.00	\$3,500.00
5. 84 Inch Diameter Manhole Structure	2	EA	\$3,500.00	\$7,000.00
6. Neehah R-3454 or Equal	1	EA	\$1,000.00	\$1,000.00
7. Neenah 4342 or Equal	2	EA	\$350.00	\$700.00
8. Rodney Hunt Series FV-AC Flap Gate	1	EA	\$1,250.00	\$1,250.00
9.. Clearing	1	LS	\$1,000.00	\$1,000.00
10. Stone Backfill	75	TONS	\$25.00	\$1,875.00
11. Coring	1	EA	\$2,500.00	\$2,500.00
12. Erosion Protection	1	LS	\$1,000.00	\$1,000.00
13. Grading & Seeding	1	LS	\$2,500.00	\$2,500.00
14. Construction Staking & Asbuilts	1	LS	\$2,500.00	\$2,500.00
			TOTAL	\$33,725.00
	15% Contengencies			\$5,058.75
				\$38,783.75

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Crooked Creek Drain, North Augusta Arm 2

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Crooked Creek Drain, North Augusta Arm 2** on **February 22, 2010** at **9:20 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made 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 THE

Crooked Creek Drain, North Augusta Arm 2

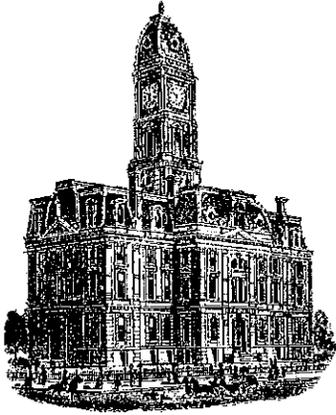
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **February 22, 2010** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



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

May 16, 2012

To: Hamilton County Drainage Board

Re: Crooked Creek - North Augusta Arm 2 Construction Project
 Final Inspection Report

FINAL INSPECTION REPORT

Please regard this letter as the inspector's final report on the North Augusta Arm 2 Construction, located in Section 7, Township 17 North, Range 3 East in Clay Township, Hamilton County Indiana.

At the October 26, 2009 meeting of the Hamilton County Drainage Board a petition from William Armstrong for the construction of Arm 2 of the North Augusta Arm to Crooked Creek was accepted. (HCDB Minute Book 12, Page 317)

At the February 22, 2010 meeting of the Hamilton County Drainage Board the hearing for North Augusta Arm 2 was held, the Surveyor's Report dated December 14, 2009 was approved and the Finding and Order Signed. (HCDB Minute Book 12, Page 421)

At the June 14, 2010 meeting of the Hamilton County Drainage Board the contract for this construction project was awarded to Rhino Trucking & Excavating. (HCDB Minute Book 12, Page 589) The contract amount was \$55,842.50.

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

During the project there was one change order. Change Order #1 was approved by the Hamilton County Drainage Board at the October 25, 2010 meeting. HCDB Minute Book 13, Page 193)

The Change Order #1 was due to the flap gate originally specified by the contract as a Rodney Hunt Series FV-AC. This flap gate was proven to be difficult to locate and impossible to obtain in a timely manner. After discussions with the engineer for the project, a substitute was identified and approved. The flap gate approved was a Neenah Foundry Model R5050-SF48 and was in stock locally.

The substitution of the Neenah Foundry flap gate provided a cost savings to the project in the amount of \$2,000.

Engineer's Estimate -----	\$97,390.00
Contract Amount -----	\$55,842.50
Change Order #1 -----	\$ (2,000.00)
Actual Construction Cost -----	\$53,842.50

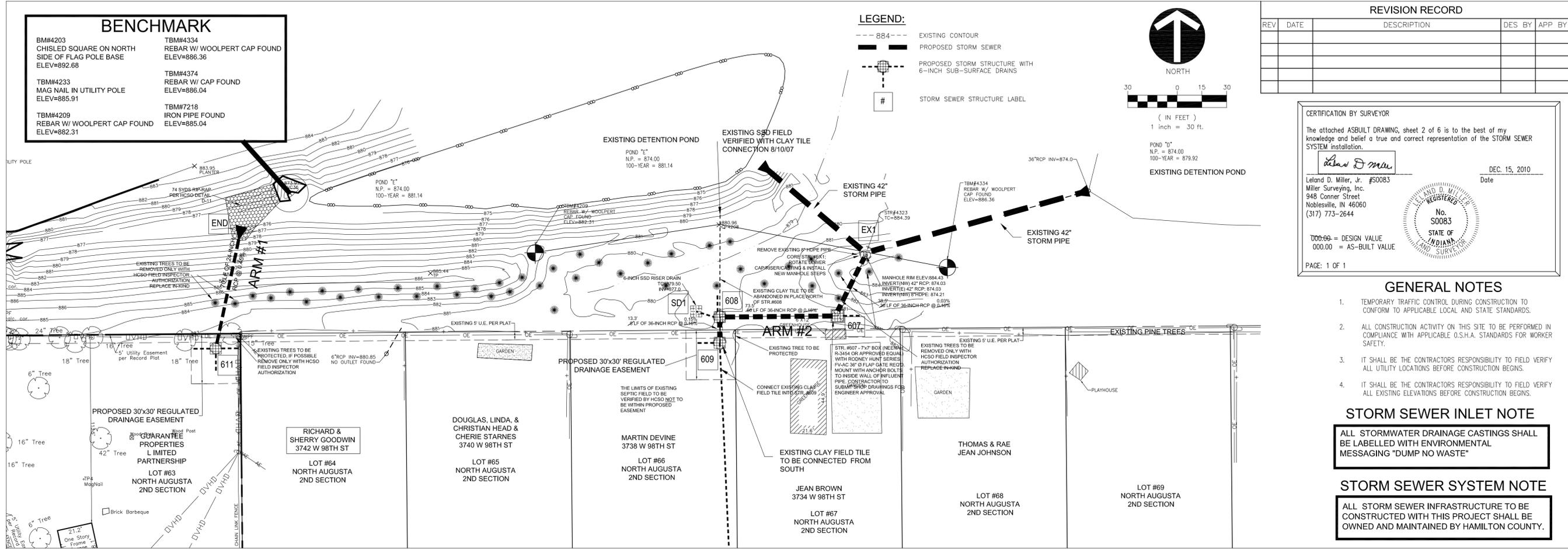
The cost of the installation of Arm #2 was paid for by the Hamilton County Highway Department using 96th Street & US 421 TIF District funds. No GDIF funds were expended.

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

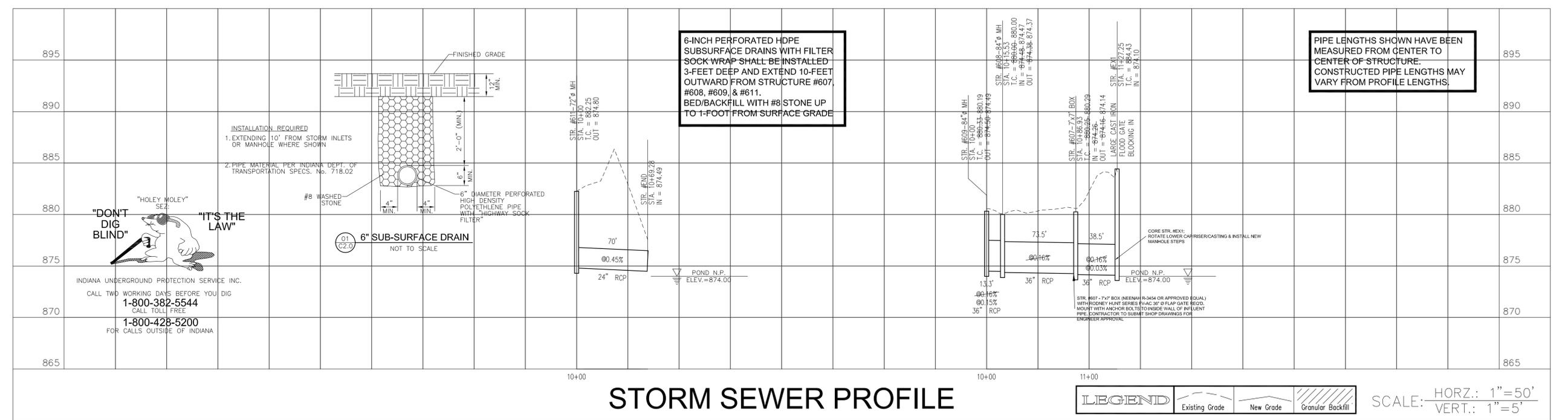
Respectfully,



Luther M. Cline
Inspector
Hamilton County Surveyor's Office



STORM PLAN



STORM SEWER PROFILE

G WILLIAM ARMSTRONG
NORTH AUGUSTA SUBDIVISION
FISHERS, INDIANA 46037

CIVIL SITE GROUP, INC.
643 Massachusetts Avenue, Suite 200
Indianapolis, Indiana 46204
Ph: (317) 423-3305 Fax: (317) 423-3306

INDIANA PROFESSIONAL ENGINEER
No. PE10810647
STATE OF INDIANA

NORTH AUGUSTA ARM 1 & ARM 2
9805 & 9807 MICHIGAN ROAD (U.S. 421)
CARMEL, INDIANA 46032

STORM SEWER PLAN & PROFILE

PROJECT NUMBER
ADI.001

DRAWING NUMBER
C2.0
SHEET 3 OF 6



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

To: Hamilton County Drainage Board

July 18, 2012

Re: Crooked Creek Drain: North Augusta Arm 2

Attached are as-builts, certificate of completion & compliance, and other information for North Augusta Arm 2. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated December 14, 2009. The report was approved by the Board at the hearing held February 22, 2010. (See Drainage Board Minutes Book 12, Pages 421-422)

The changes are as follows:

The 36" RCP was lengthened from 110 feet to 124 feet.

The length of the drain due to the changes described above is now **164 feet**.

A non-enforcement was not required for this project. The project was paid for with the 96th Street & US 421 TIF district funds and therefore no surety was required for this project. The final cost of the project was \$53,842.50. (See the final inspection report dated May 16, 2012)

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

BENCHMARK

BM#4203 CHISLED SQUARE ON NORTH SIDE OF FLAG POLE BASE ELEV=892.68	TBM#4334 REBAR W/ WOOLPERT CAP FOUND ELEV=886.36
TBM#4233 MAG NAIL IN UTILITY POLE ELEV=885.91	TBM#4374 REBAR W/ CAP FOUND ELEV=886.04
TBM#4209 REBAR W/ WOOLPERT CAP FOUND ELEV=882.31	TBM#7218 IRON PIPE FOUND ELEV=885.04

- ### LEGEND:
- 884 --- EXISTING CONTOUR
 - PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE WITH 6-INCH SUB-SURFACE DRAINS
 - # STORM SEWER STRUCTURE LABEL



REVISION RECORD

REV	DATE	DESCRIPTION	DES BY	APP BY

CERTIFICATION BY SURVEYOR

The attached ASBUILT DRAWING, sheet 2 of 6 is to the best of my knowledge and belief a true and correct representation of the STORM SEWER SYSTEM installation.

Leland D. Miller
Leland D. Miller, Jr. #50083
Miller Surveying, Inc.
948 Conner Street
Noblesville, IN 46060
(317) 773-2644

DEC. 15, 2010
Date

No. S0083
STATE OF INDIANA
REGISTERED LAND SURVEYOR

006.00 = DESIGN VALUE
000.00 = AS-BUILT VALUE

PAGE: 1 OF 1

- ### GENERAL NOTES
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING ELEVATIONS BEFORE CONSTRUCTION BEGINS.

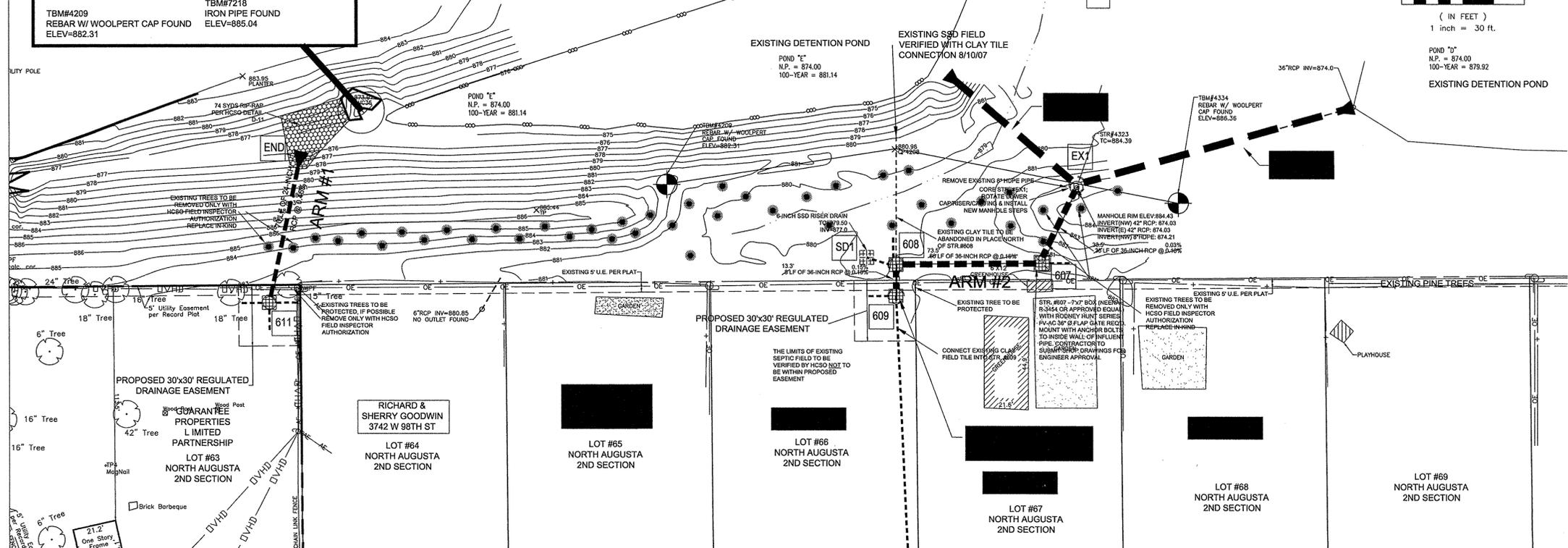
STORM SEWER INLET NOTE

ALL STORMWATER DRAINAGE CASTINGS SHALL BE LABELLED WITH ENVIRONMENTAL MESSAGING "DUMP NO WASTE"

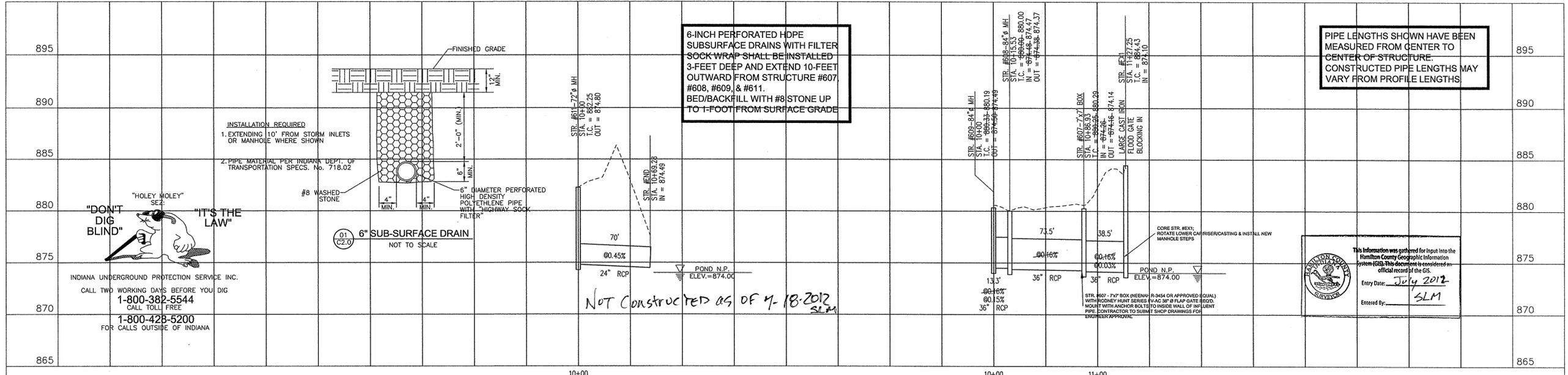
STORM SEWER SYSTEM NOTE

ALL STORM SEWER INFRASTRUCTURE TO BE CONSTRUCTED WITH THIS PROJECT SHALL BE OWNED AND MAINTAINED BY HAMILTON COUNTY.

18" OF VERTICAL SEPARATION MUST BE MAINTAINED FOR ALL UTILITY CROSSINGS.



STORM PLAN



STORM SEWER PROFILE

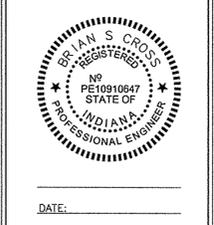
LEGEND

- Existing Grade
- New Grade
- Granular Backfill

SCALE: HORZ.: 1" = 50'
VERT.: 1" = 5'

G WILLIAM ARMSTRONG
NORTH AUGUSTA SUBDIVISION
FISHERS, INDIANA 46037

CIVIL SITE GROUP, INC.
643 Massachusetts Avenue, Suite 200
Indianapolis, Indiana 46204
Ph: (317) 423-3305 Fax: (317) 423-3306



DWN BY: BSC
CHKD. BY: EAG
SCALE: 1" = 30'
DATE: 11/18/09

NORTH AUGUSTA ARM 1 & ARM 2
9805 & 9807 MICHIGAN ROAD (U.S. 421)
CARMEL, INDIANA 46032

STORM SEWER PLAN & PROFILE

PROJECT NUMBER
ADI.001

DRAWING NUMBER
C2.0
SHEET 3 OF 6