

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

September 6, 2017

To: Hamilton County Drainage Board

Re: Mud Creek – Sand Creek Drainage Area, Frank Keiser Arm, Cyntheanne Road
Bridge 306 Project Reconstruction

Attached are petition and plans for the proposed reconstruction of the Mud Creek – Sand Creek Drainage Area, Frank Keiser Arm. This project is to be paid for by the Hamilton County Highway Department. The proposal is to reconstruct the existing tile drain currently in the Cyntheanne Road right-of-way owned by Hamilton County per the 'Replacement Plan for Small Structure No. 23034 (Bridge No. 306) Cyntheanne Road Over Frank Keiser Drain' project plans by Lochmueller Group, Project No. PB-14-0004, revision date 8/21/2017.

Per the plans, the upstream end of this reconstruction will begin at a proposed manhole (Str. 19) near the east right-of-way line of Cyntheanne Road, and replace 180' feet of tile to a proposed manhole (Str. 17) near the west right-of-way line. This is approximately equivalent to existing stations 140+24 to 142+04 on the existing drain.

This reconstruction will consist of the following:

180' of 30" RCP

The new drain involves the following structures: 17, 19

The newly installed drain will have a length of 180'.

Regarding the existing drain, this project will replace 180' of existing tile. This proposal will maintain the current footage of the drain's total length.

The project will also replace another existing tile between proposed Strs. 18 and 16. The existing tile is not maintained as part of the regulated drain. The existing tile was a previously vacated tile that continues to drain under Cyntheanne Road. The new pipe will be located approximately 12 feet from the regulated drain and will run parallel to the drain.

The project also involves installing a bridge north of the regulated drain and installing a 60" culvert. These improvements are not part of the regulated drain.

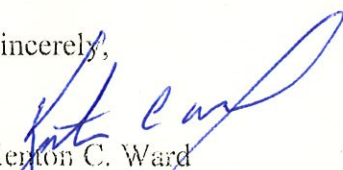
The Frank Keiser Drain was reconstructed 1949 per Viewer's Report dated August 19, 1949. The drain is currently on a maintenance program which was approved at hearing on January 15, 1979. See Minutes Book 1, Page 287. On January 7, 1980, the original tile was confirmed abandoned as recorded in Drainage Board Minutes Book 1, page 332. The Frank Keiser Drain was made an arm to the Mud Creek - Sand Creek Drainage Area on January 22, 2007 as recorded in Minutes Book 10, Pages 56 - 59.

The cost of the project is to be paid by Hamilton County Highway Department. The petitioner has not submitted surety for the proposed drain reconstruction, as this requirement has been waived for the Hamilton County Highway Department.

The new drain will be installed within existing regulated drain easement within road right-of-way. Therefore, no additional easement is required.

This project satisfies the requirements set forth in IC-36-9-27-52.5. Therefore, a hearing without public notice is required.

Sincerely,



Kerton C. Ward
Hamilton County Surveyor

KCW/stc



HAMILTON COUNTY
INDIANA

HIGHWAY DEPARTMENT

Bradley Davis, P.E. - Director
Joel Thurman, P.E. - Acting County Engineer
Bob Davis - Superintendent

September 5, 2017

Kenton C Ward
Hamilton County Surveyor Office
1 Hamilton County Square, Suite 188
Noblesville, Indiana 46060

FILED
SEP 08 2017

OFFICE OF HAMILTON COUNTY SURVEYOR


RE: Petition to Reconstruct Field Tile &
Construct Mitigation Site
Small Structure # 23034 (Bridge #306)
Cyntheanne Road / Frank Keiser Drain
Wayne Township
Hamilton County, Indiana
PB-14-0004

Mr. Ward:

County Surveyor's Office has requested reconstruction of Frank Keiser Drain Field Tile as part of small structure # 23034 replacement project. Reconstruction of the field tile will involve replacing two 27 inch field tile with two 30-inch reinforced concrete pipe within the newly acquired county right-of-way. This will also include installing two inlet structures upstream and two inlet structures downstream on both field tiles.

County Highway will also mitigate wetland from SS # 23034 project to County owned parcel located on the Southeast corner of 106th Street and Cumberland Road intersection. Mitigation will involve constructing POD A, B, open Water (2/MD3), and plantation of various vegetation as indicated on the mitigation plan. Mitigation plan shall accommodate HCSO master site plan.

Therefore, County Highway is requesting HCSO/Drainage Board to initiate the reconstruction petition for Frank Keiser Drain and authorize County Highway to construct mitigation site on 106th Street and Cumberland road Intersection. If you have any questions regarding the above-mentioned project, please feel free to call. I look forward to working with you on this project.

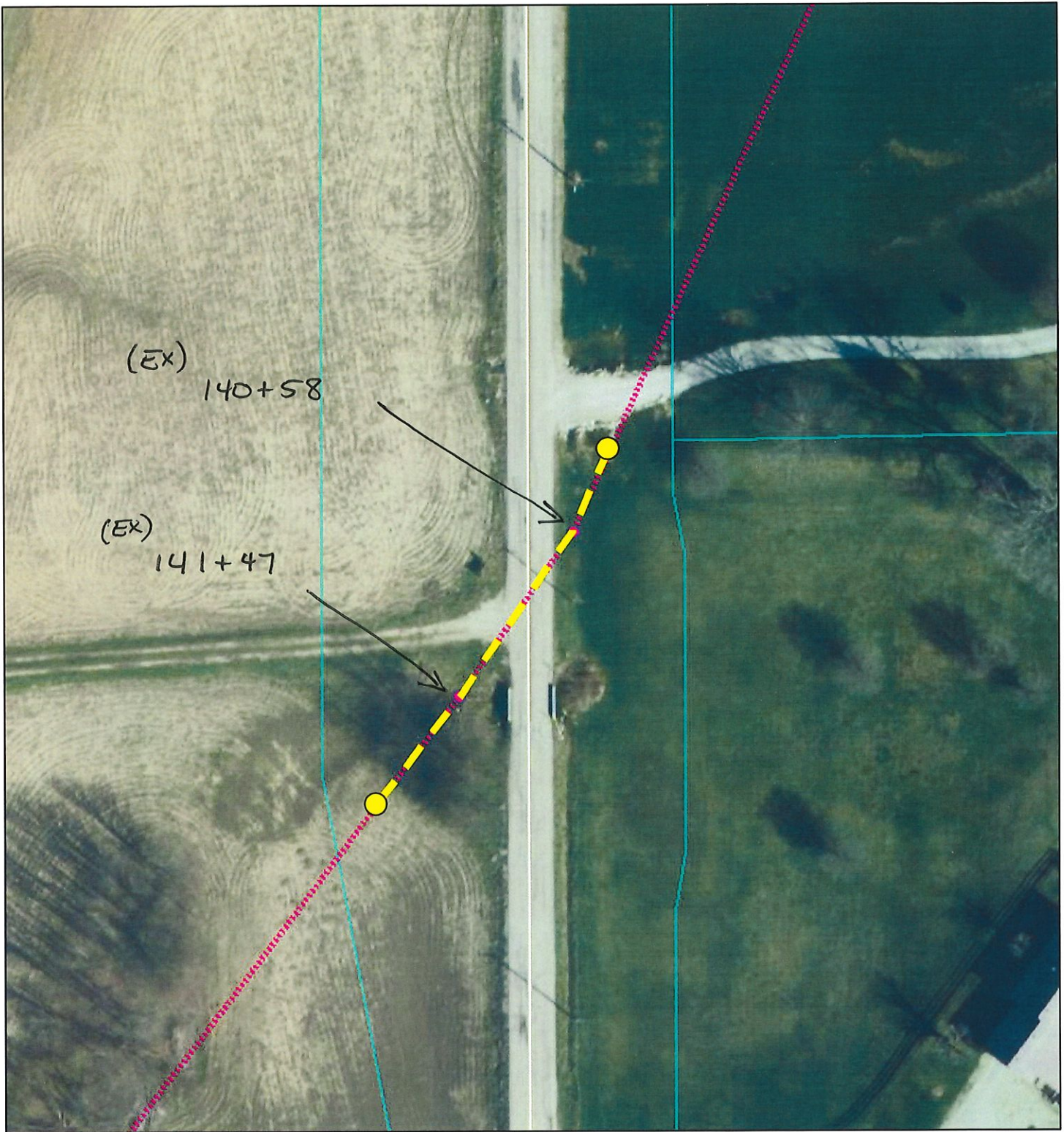
Sincerely,

Bradley Davis

cc: Joel Thurman
Faraz Khan

FJK:fjk

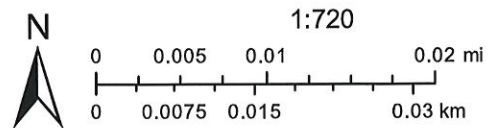
G:\USERS\Small Structures\SS # 23034\PB-14-0004\HCHD\2017 -09-05 - Reconstruct HCSO Dual Field Tile.docx

Frank Keiser Drain - Bridge 306 Project

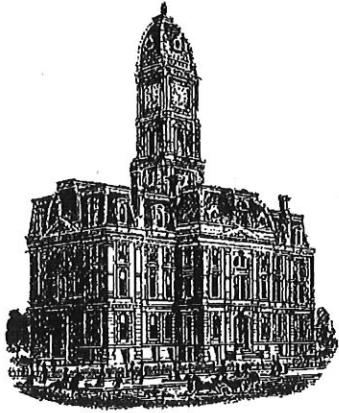


September 6, 2017

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



Basemap information here



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

April 8, 2021

Re: Mud Creek – Sand Creek D.A.: Frank Keiser Arm – Cyntheanne Rd Bridge 306 Project Recon.

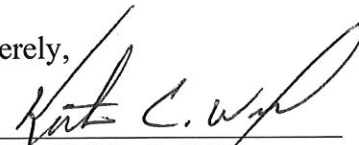
Attached are as-builts and other information for Cyntheanne Rd Bridge 306 Project Recon. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated September 6, 2017. The report was approved by the Board at the hearing held September 11, 2017. (See Drainage Board Minutes Book 17, Pages 471-472) The changes are as follows: the 30" RCP was shortened from 180 feet to 176 feet. The length of the drain due to the changes described above is now **176 feet**. The original 27" concrete tile was removed from Sta. 140+32 to Sta 142+02. Thus, the project added 6 feet to the overall drain length.

The work was performed within existing regulated drain easement and road right of way. The project was paid for by the Hamilton County Highway Department.

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

PROJECT	DESIGNATION
PB-14-0004	PB-14-0004
CONTRACT	BRIDGE FILE
	Hamilton Co. Br. 306

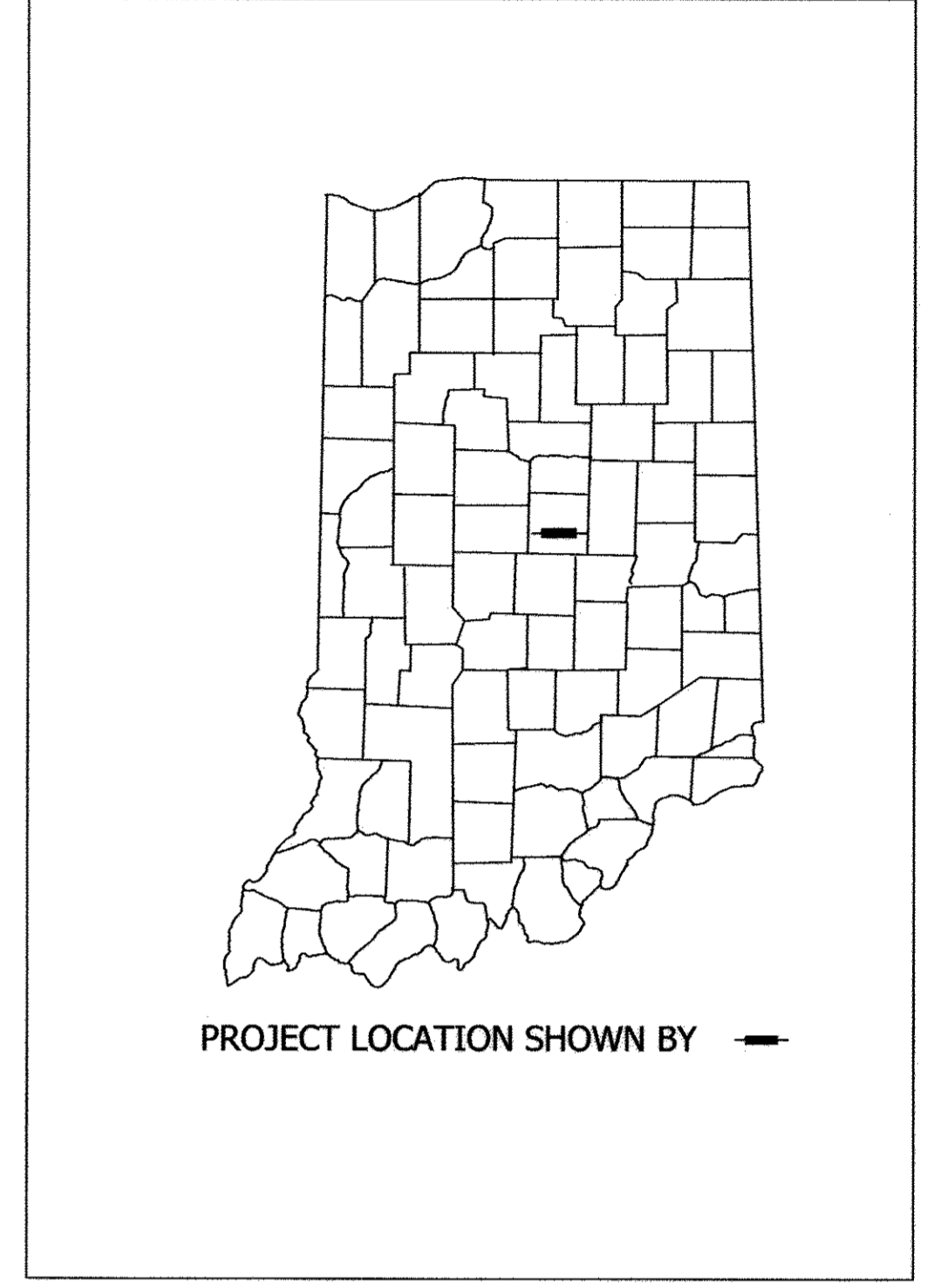
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
HAMILTON CO. BRIDGE	REINFORCED CONCRETE SLAB	27'-0" SPAN 25°00'00" SKEW	FRANK KEISER DRAIN	59+48.00

HAMILTON COUNTY HIGHWAY DEPARTMENT

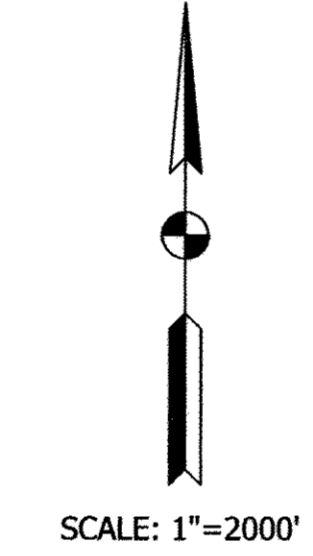
REPLACEMENT PLAN FOR SMALL STRUCTURE NO. 23034 (BRIDGE NO. 306) CYNTHEANNE ROAD OVER FRANK KEISER DRAIN WAYNE TOWNSHIP PB-14-0004

TRAFFIC DATA	
A.D.T. (2011)	492 V.P.D.
DESIGN SPEED	55 M.P.H.
LOCAL FUNCTIONAL CLASSIFICATION	LOCAL ROAD
REGULATED DRAIN	YES - KEISER DRAIN

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: 2021
Entered By: SLM



REPLACEMENT OF HAMILTON COUNTY SMALL STRUCTURE NO. 23034 (BRIDGE NO. 306). CYNTHEANNE ROAD OVER FRANK KEISER DRAIN, 0.42 MILES NORTH OF 146TH STREET. LOCATED IN SECTION 17 & 18, T18N, R6E IN WAYNE TOWNSHIP, HAMILTON COUNTY, INDIANA



APPROVED BY:
HAMILTON COUNTY BOARD OF COMMISSIONERS

Date: May 22, 2017

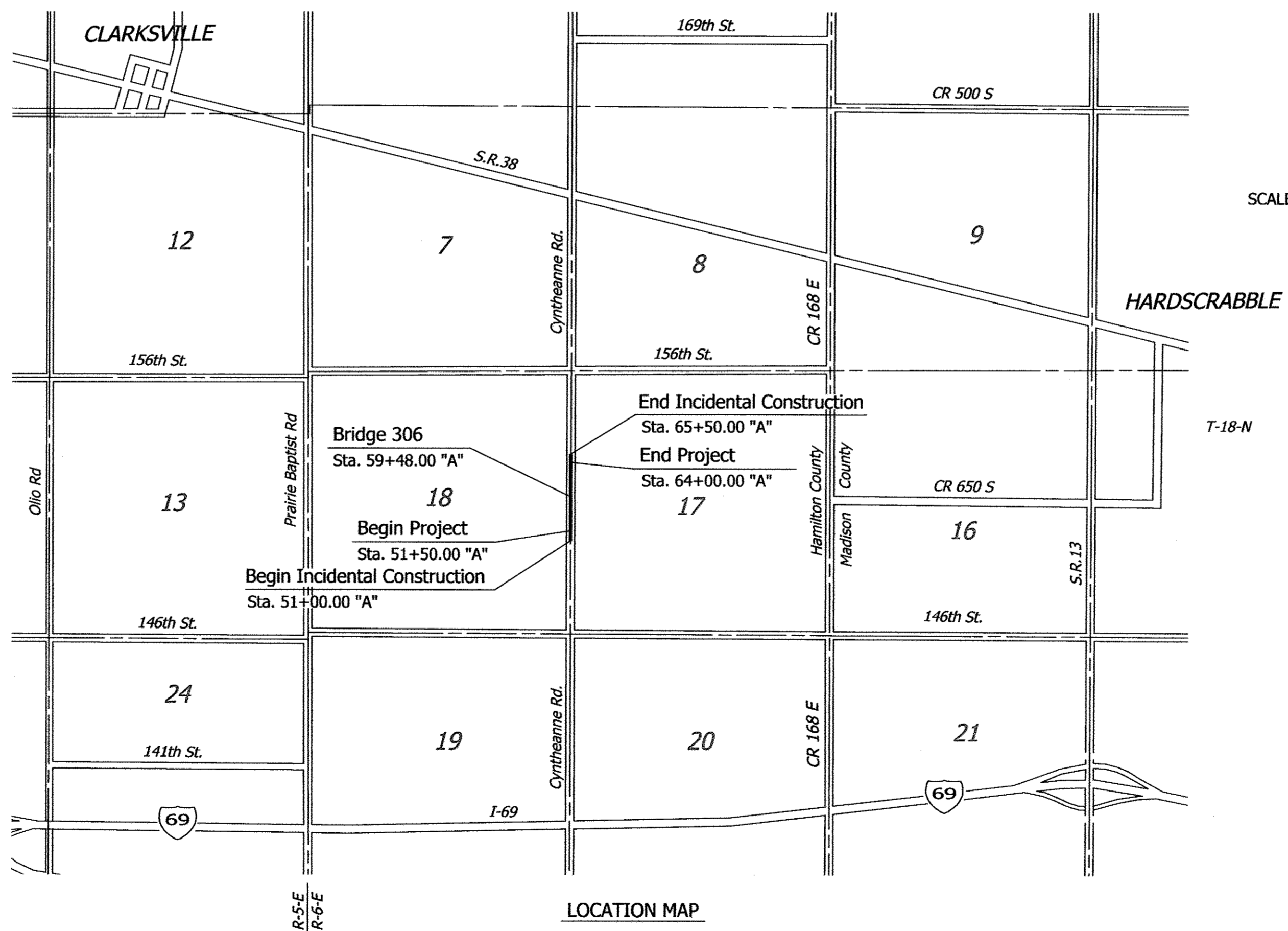
Christine Altman
Christine Altman President

Mark Heirbrandt
Mark Heirbrandt Vice President

Steven C. Dillinger
Steven C. Dillinger Member

Robin M. Mills
Robin M. Mills Auditor

Joel Thurman
Joel Thurman, P.E. Acting County Highway Engineer



LATITUDE: 40°00'33"N	LONGITUDE: 85°52'53"W
BRIDGE LENGTH:	0.008 MI.
ROADWAY LENGTH:	0.229 MI.
TOTAL LENGTH:	0.237 MI.
MAX. GRADE:	2.95 %

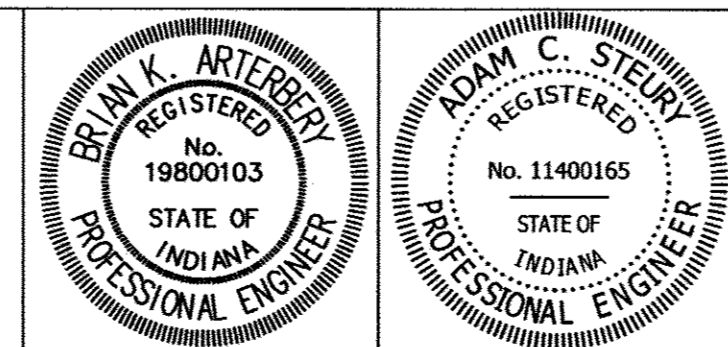
GENERAL NOTES

1) Notify the Hamilton County Surveyor's Office at 317-776-8495 a minimum of 30 days prior to construction per Indiana Code. The placement of a benchmark by the Contractor will be required as a part of this project. See Section Corner Monument and Benchmark Placement Special Provision for additional information.

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016
TO BE USED WITH THESE PLANS

Plans Prepared By:
LOCHMUELLER GROUP
3502 Woodview Trace, Suite 150
Indianapolis, Indiana 46268
Phone: 317.222.3880
Toll Free: 888.830.6977

SOIL CONSULTANTS
EARTH EXPLORATION, INC.
7770 West New York St
Indianapolis, Indiana, 46214
(317) 273-1690



CERTIFIED BY: *Brian K. Artterbery*
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 19800103
May 18, 2017 DATE

CERTIFIED BY: *Adam C. Stekler*
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 11400165
May 18, 2017 DATE

BRIDGE FILE	
HAMILTON CO. BR. 306	
DESIGNATION	
PB-14-0004	
SURVEY BOOK	SHEETS
CONTRACT	1 of 39
PROJECT	
PB-14-0004	

Date: May 18, 2017, 11:08am User Name: bstulzman File: M:_2014\214-0000\Road\CAD\MiscDWG\Title.dwg

UTILITIES

ELECTRIC

Duke Energy
100 S. Mill Creek Road
Noblesville, IN 46062
Contact: Brynn Streeter
(317)-703-0681
Brynn.streeter@duke-energy.com

WATER

CEG Water
2150 Dr. Martin Luther King Jr. Street
Indianapolis, IN 46202
Contact: Chris Brumfield
(317)-695-0978
CBrumfield@citizensenergygroup.com

COMMUNICATIONS

AT&T
240 N Meridian Street
Indianapolis, IN 46204
Contact: Brian Cravens
(317)-796-5793
BC85@attn.com

Comcast

5330 East 65th Street
Indianapolis, IN 46220
Contact: ~~Thomas Spencer~~ Scott Evans
(317)-752-~~9426~~ 6569
~~tspencer~~@telecomplacement.com
sevans



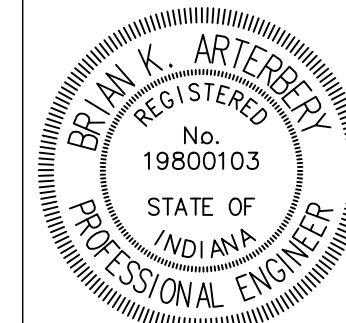
INDEX

SHEET NO.	DESCRIPTION
	DIVISION A - CYNTHEANNE ROAD OVER FRANK KEISER DRAIN
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3	LOCATION CONTROL ROUTE SURVEY
4-5	TYPICAL CROSS SECTIONS
6	MAINTENANCE OF TRAFFIC
7-9	PLAN & PROFILE SHEETS
10-13	TEMPORARY EROSION CONTROL
14-15	PAVEMENT MARKING AND SIGNING
16	SOIL BORINGS
17-18	GENERAL PLAN
19	FOUNDATION LAYOUT
20-22	END BENT #1 & #2 CONSTRUCTION & DETAILS
23-24	SUPERSTRUCTURE DETAILS
25	SCREED DETAILS
26	R.C. BRIDGE APPROACH
27	BRIDGE SUMMARY OF QUANTITIES
28	ROAD SUMMARY
29	PAVEMENT QUANTITIES AND APPROACH TABLE
30	STRUCTURE DATA TABLE AND PIPE MATERIAL TABLE
31-39	CROSS SECTIONS
	DIVISION B - WETLAND MITIGATION
1 - 10	WETLAND MITIGATION PLANS

REVISIONS

SHEET NO.	DATE	REVISED

Date: May 25, 2017, 9:45am User Name: bstatzman
File: M_L_20141214-0030 (Road CAD) (Misc DWG) Index.dwg

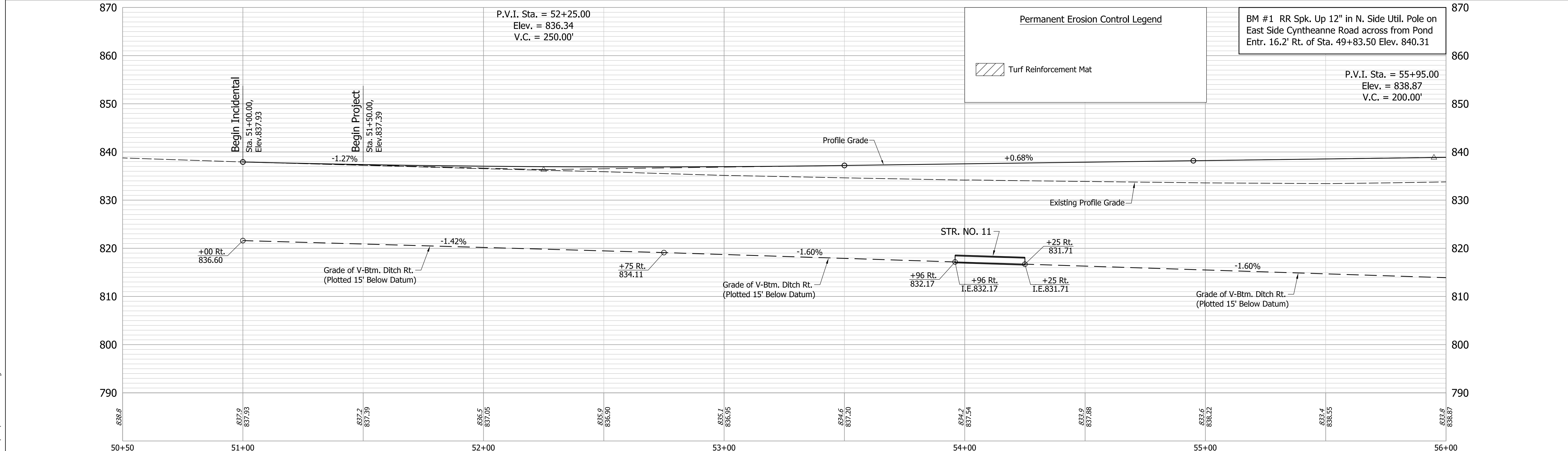
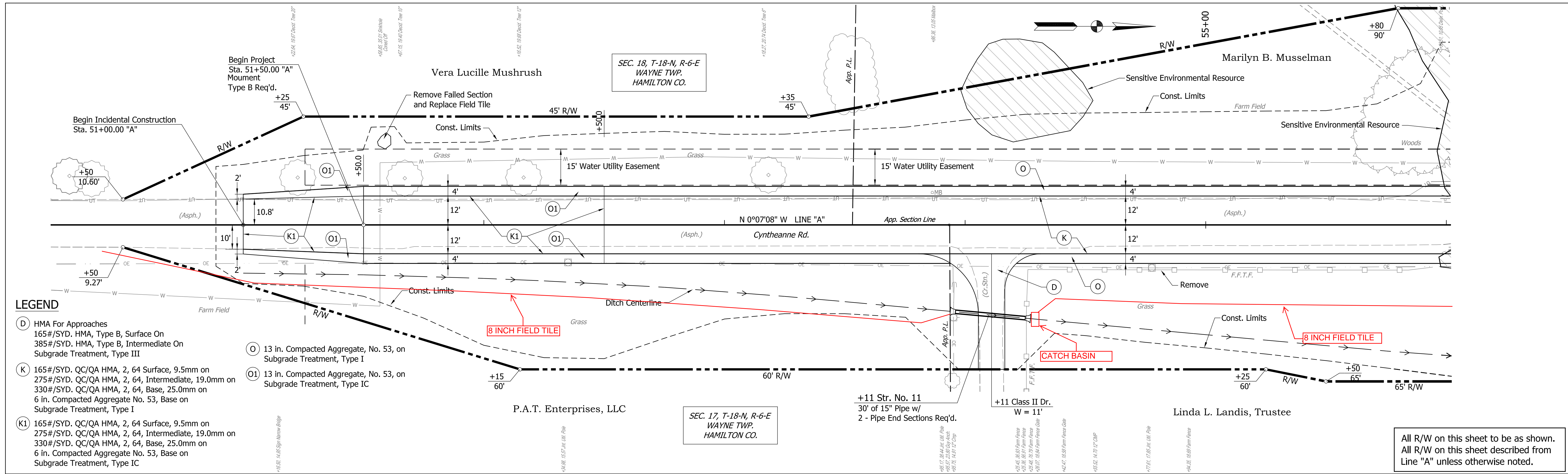


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	DESIGN ENGINEER	04/28/2017	DATE
DESIGNED:	BSS	DRAWN:	DJG	
CHECKED:	BKA	CHECKED:	BSS	

HAMILTON COUNTY
HIGHWAY DEPARTMENT

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	HAMILTON CO. BR. 306
VERTICAL SCALE	DESIGNATION
N/A	PB-14-0004
SURVEY BOOK	SHEETS
	2 of 39
CONTRACT	PROJECT
	PB-14-0004



HAMILTON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE LINE "A" STA. 51+00.00 TO STA. 56+00.00

DESIGNED: BSS **DRAWN:** DJG **DATE:** 04/28/2017

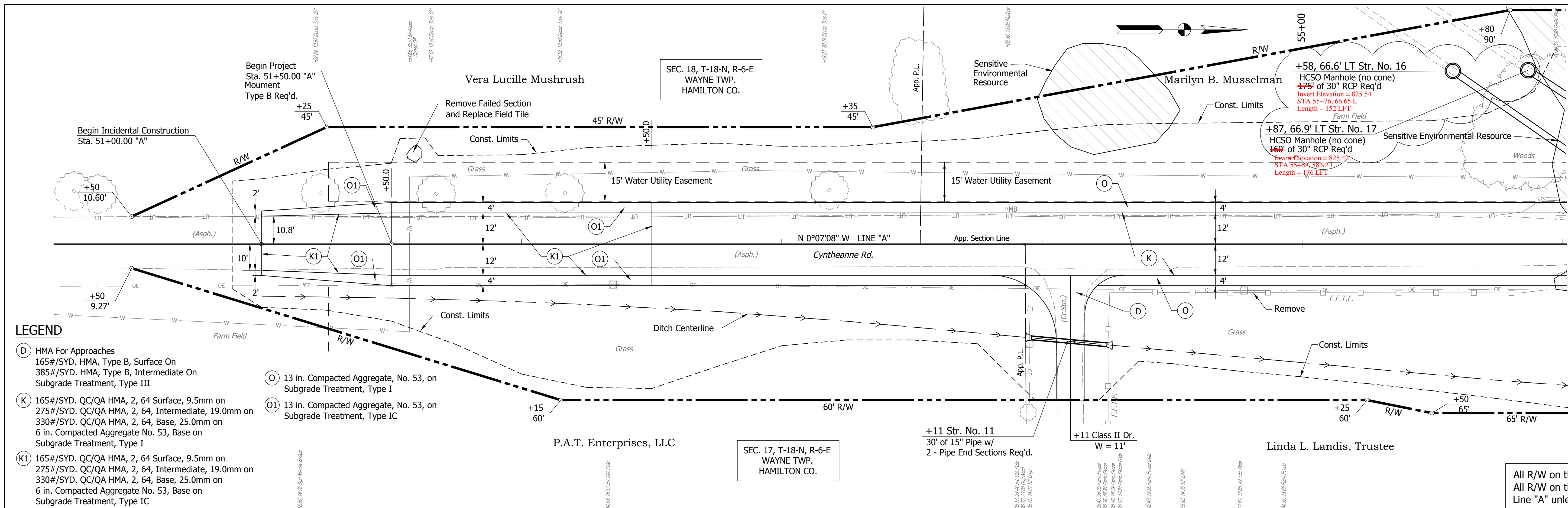
CHECKED: BKA **CHECKED:** BSS

RECOMMENDED FOR APPROVAL: *R. K. [Signature]* **DESIGN ENGINEER** **DATE:** 04/28/2017

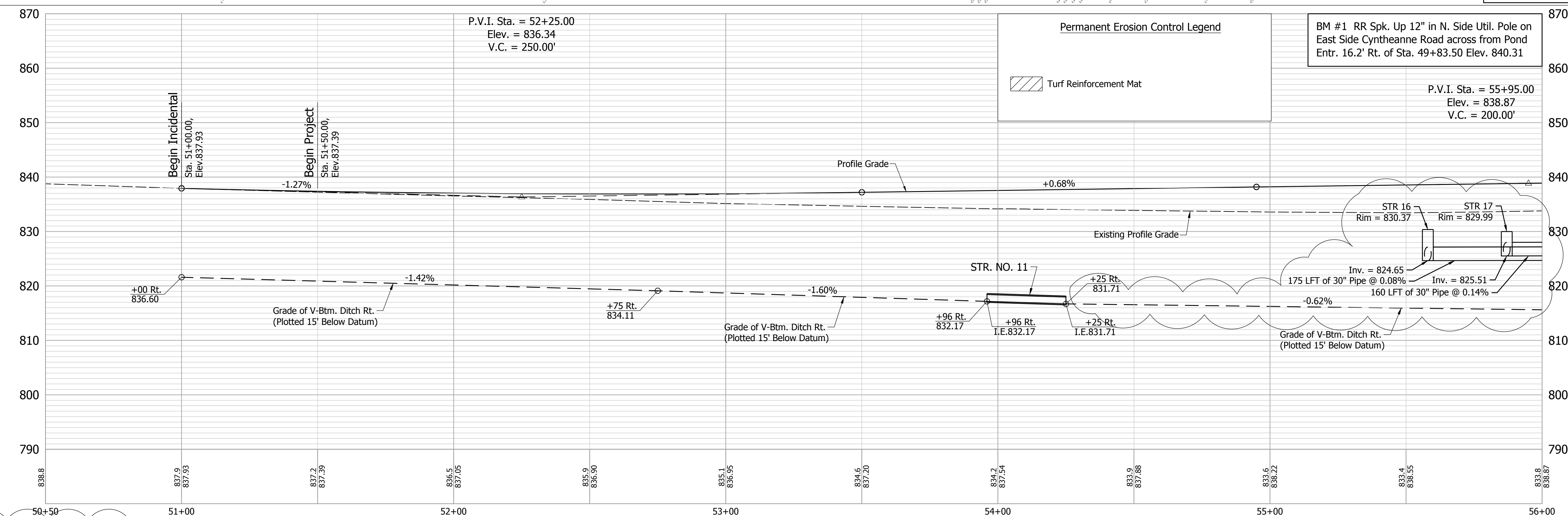
BRUNY K. ARTERBERG
 REGISTERED PROFESSIONAL ENGINEER
 No. 19800103
 STATE OF INDIANA

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	HAMILTON CO. BR. 306
VERTICAL SCALE	DESIGNATION
1"=10'	PB-14-0004
SURVEY BOOK	SHEETS
	7 of 39
CONTRACT	PROJECT
	PB-14-0004

Note:
 All Disturbed Areas Shall Have Erosion Control Blanket and See Mixture, R; Unless Otherwise Shown.

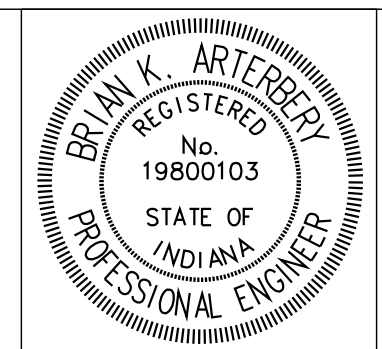


All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" unless otherwise noted.



Note:
Manholes to Connect New 30" RCP to Existing Field Drain. Inverts Shown are Approximate. Contractor to Verify and Match Field Conditions.

Note:
All Disturbed Areas Shall Have Erosion Control Blanket and See Mixture, R; Unless Otherwise Shown.



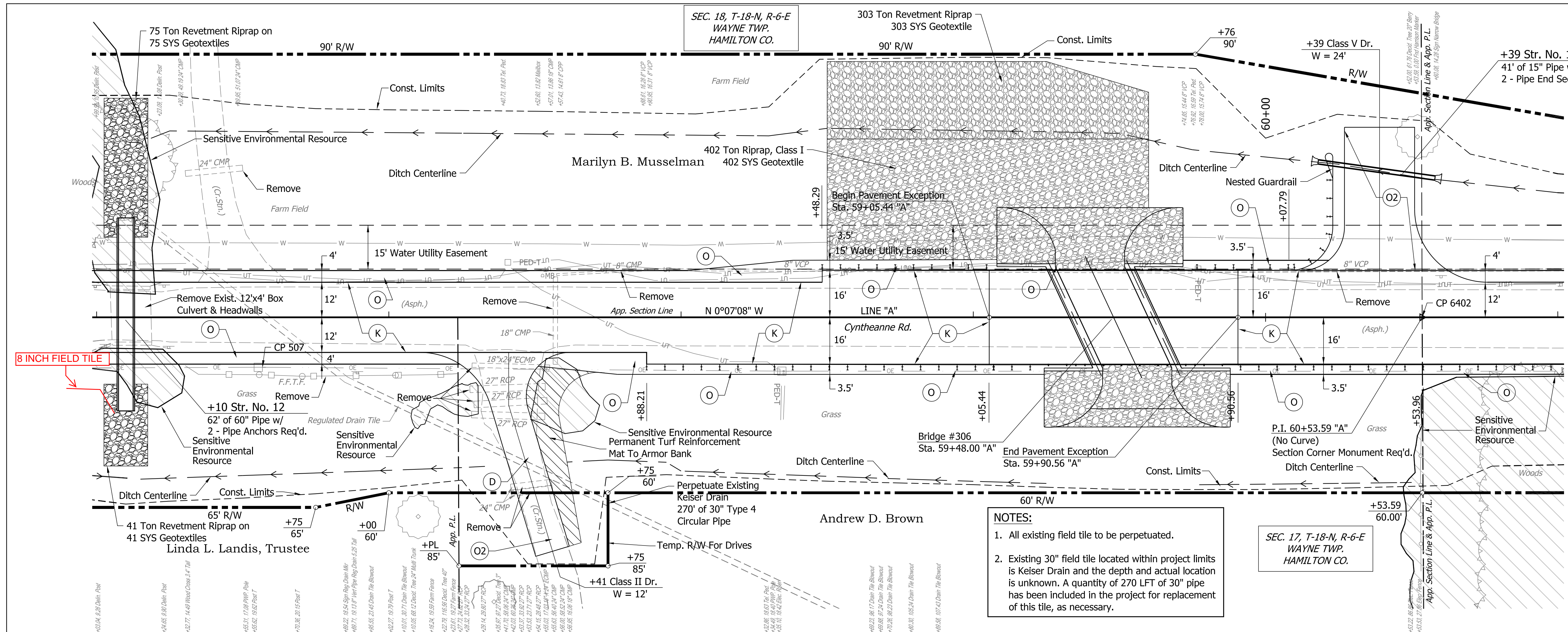
RECOMMENDED FOR APPROVAL	<i>B. K. Artz</i>	DESIGN ENGINEER	04/28/2017
DESIGNED:	BSS	DRAWN:	DJG
CHECKED:	BAK	CHECKED:	BSS

HAMILTON COUNTY
HIGHWAY DEPARTMENT

PLAN & PROFILE LINE "A"
STA. 51+00.00 TO STA. 56+00.00

HORIZONTAL SCALE	1"=20'	BRIDGE FILE	HAMILTON CO. BR. 306
VERTICAL SCALE	1"=10'	DESIGNATION	PB-14-0004
SURVEY BOOK	7	SHEETS	of 39
CONTRACT		PROJECT	PB-14-0004

Date: Sep 26, 2017, 12:17pm User Name: bstutzman
File: M:_2014\1214-0030\Road\CAD\Plan & Profiles.dwg

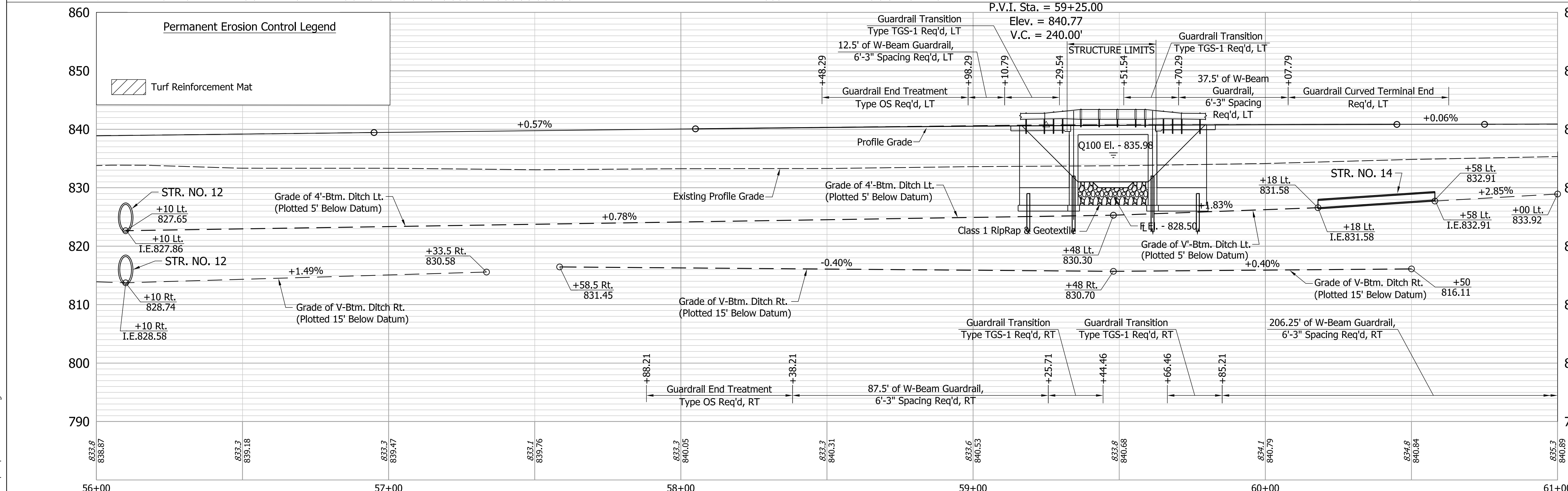


- LEGEND**
- (D) HMA For Approaches
165#/SYD. HMA, Type B, Surface On
385#/SYD. HMA, Type B, Intermediate On
Subgrade Treatment, Type III
 - (K) 165#/SYD. QC/QA HMA, 2, 64 Surface, 9.5mm on
275#/SYD. QC/QA HMA, 2, 64, Intermediate, 19.0mm on
330#/SYD. QC/QA HMA, 2, 64, Base, 25.0mm on
6 in. Compacted Aggregate No. 53, Base on
Subgrade Treatment, Type I
 - (K1) 165#/SYD. QC/QA HMA, 2, 64 Surface, 9.5mm on
275#/SYD. QC/QA HMA, 2, 64, Intermediate, 19.0mm on
330#/SYD. QC/QA HMA, 2, 64, Base, 25.0mm on
6 in. Compacted Aggregate No. 53, Base on
Subgrade Treatment, Type IC
 - (O) 13 in. Compacted Aggregate, No. 53, on
Subgrade Treatment, Type I
 - (O1) 13 in. Compacted Aggregate, No. 53, on
Subgrade Treatment, Type IC
 - (O2) Compacted Aggregate, No. 53

NOTES:

- All existing field tile to be perpetuated.
- Existing 30" field tile located within project limits is Keiser Drain and the depth and actual location is unknown. A quantity of 270 LFT of 30" pipe has been included in the project for replacement of this tile, as necessary.

All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" unless otherwise noted.



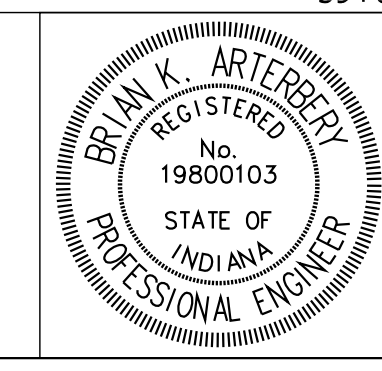
BM #2 Chis. Square on Top of South End of East-Most
Conc. Drive Culvert for Address 15044 Cyntheanne Road
32.8' Rt. of Sta. 57+29.00 Elev. 833.08

HYDRAULIC INFORMATION

DRAINAGE AREA	= 2.33 mi ²
PROPOSED AREA REQUIRED	= 62.0 ft. ²
PROPOSED AREA PROVIDED	= 106.9 ft. ²
Q100 DISCHARGE	= 487 ft. ³ /sec.
Q100 ELEVATION	= 835.98 ft.
PROPOSED VELOCITY	= 6.2 ft./sec.
PROPOSED BACKWATER DEPTH (Q100)	= 1.80 ft.
LOW STRUCTURE ELEV.	= 838.71 ft.
Q100 SCOUR ELEV.	= 823.46 ft.
Q500 SCOUR ELEV.	= 820.78 ft.

Date: Jun 07, 2017, 6:28am User Name: barthelmy
 File: H:_2017\14-0000\Road\CAD\Plan & Profiles.dwg

Note:
All Disturbed Areas Shall Have Erosion Control
Blanket and See Mixture, R; Unless Otherwise
Shown.

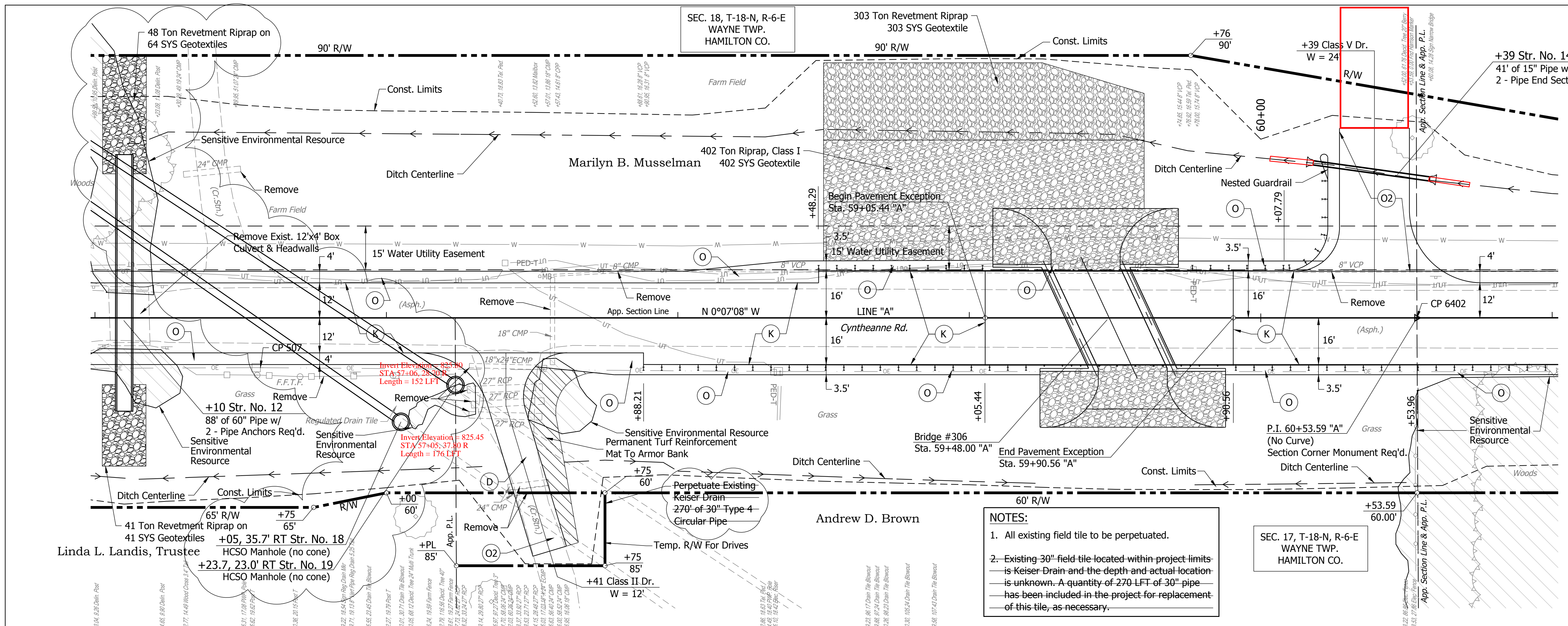


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	DESIGN ENGINEER	04/28/2017	DATE
DESIGNED:	BSS	DRAWN:	DJG	
CHECKED:	BAK	CHECKED:	BSS	

HAMILTON COUNTY
HIGHWAY DEPARTMENT

**PLAN & PROFILE LINE "A"
STA. 56+00.00 TO STA. 61+00.00**

HORIZONTAL SCALE	1"=20'	BRIDGE FILE	HAMILTON CO. BR. 306
VERTICAL SCALE	1"=10'	DESIGNATION	PB-14-0004
SURVEY BOOK	8	SHEETS	of 39
CONTRACT		PROJECT	PB-14-0004

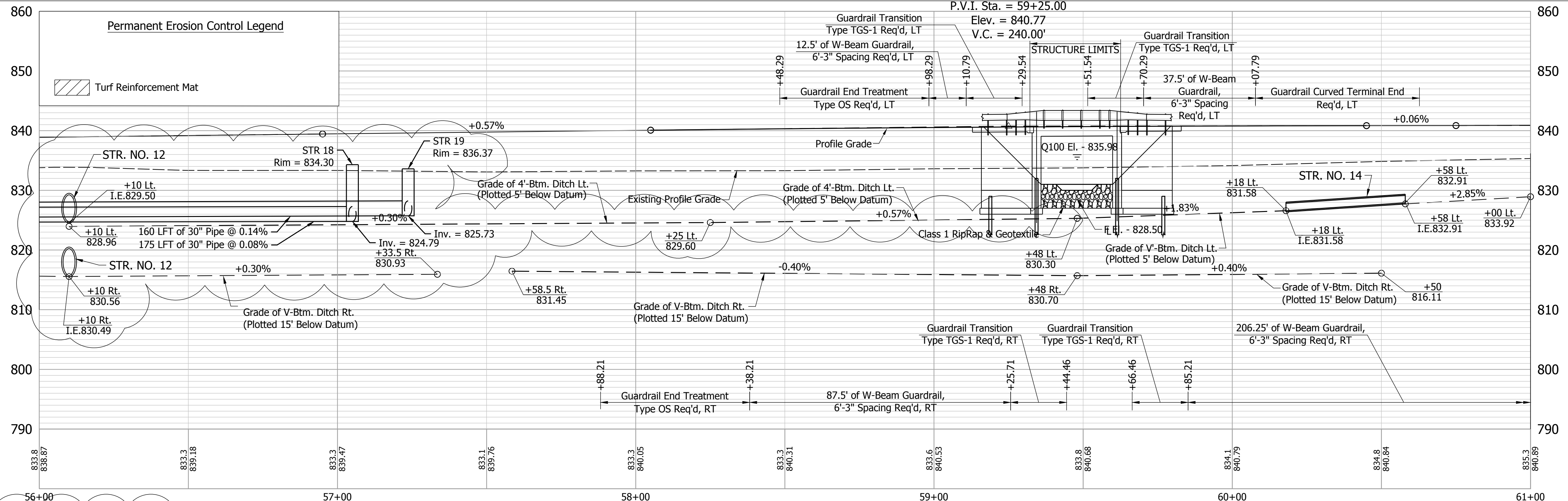


- LEGEND**
- (D) HMA For Approaches
165#/SYD. HMA, Type B, Surface On
385#/SYD. HMA, Type B, Intermediate On
Subgrade Treatment, Type III
 - (K) 165#/SYD. QC/QA HMA, 2, 64 Surface, 9.5mm on
275#/SYD. QC/QA HMA, 2, 64, Intermediate, 19.0mm on
330#/SYD. QC/QA HMA, 2, 64, Base, 25.0mm on
6 in. Compacted Aggregate No. 53, Base on
Subgrade Treatment, Type I
 - (K1) 165#/SYD. QC/QA HMA, 2, 64 Surface, 9.5mm on
275#/SYD. QC/QA HMA, 2, 64, Intermediate, 19.0mm on
330#/SYD. QC/QA HMA, 2, 64, Base, 25.0mm on
6 in. Compacted Aggregate No. 53, Base on
Subgrade Treatment, Type IC
 - (O) 13 in. Compacted Aggregate, No. 53, on
Subgrade Treatment, Type I
 - (O1) 13 in. Compacted Aggregate, No. 53, on
Subgrade Treatment, Type IC
 - (O2) Compacted Aggregate, No. 53

NOTES:

- All existing field tile to be perpetuated.
- Existing 30" field tile located within project limits is Keiser Drain and the depth and actual location is unknown. A quantity of 270 LFT of 30" pipe has been included in the project for replacement of this tile, as necessary.

All R/W on this sheet to be shown. All R/W on this sheet described from Line "A" unless otherwise noted.



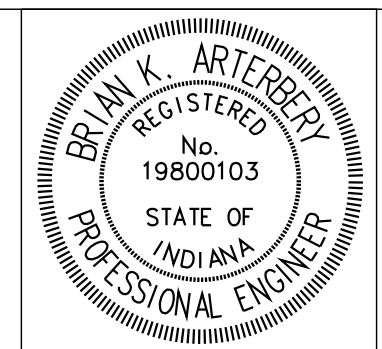
BM #2 Chis. Square on Top of South End of East-Most Conc. Drive Culvert for Address 15044 Cyntheanne Road 32.8' Rt. of Sta. 57+29.00 Elev. 833.08

HYDRAULIC INFORMATION

DRAINAGE AREA	=2.33 mi ²
PROPOSED AREA REQUIRED	=62.0 ft. ²
PROPOSED AREA PROVIDED	=106.9 ft. ²
Q100 DISCHARGE	=487 ft. ³ /sec.
Q100 ELEVATION	=835.98 ft.
PROPOSED VELOCITY	=6.2 ft./sec.
PROPOSED BACKWATER DEPTH (Q100)	=1.80 ft.
LOW STRUCTURE ELEV.	=838.71 ft.
Q100 SCOUR ELEV.	=823.46 ft.
Q500 SCOUR ELEV.	=820.78 ft.

Note: Manholes to Connect New 30" RCP to Existing Field Drain. Inverts Shown are Approximate. Contractor to Verify and Match Field Conditions.

Note: All Disturbed Areas Shall Have Erosion Control Blanket and See Mixture, R; Unless Otherwise Shown.



RECOMMENDED FOR APPROVAL: *Brian K. Artz* DESIGN ENGINEER, 04/28/2017 DATE

DESIGNED: BSS DRAWN: DJG

CHECKED: BKA CHECKED: BSS

HAMILTON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE LINE "A" STA. 56+00.00 TO STA. 61+00.00

HORIZONTAL SCALE	1"=20'	BRIDGE FILE	HAMILTON CO. BR. 306
VERTICAL SCALE	1"=10'	DESIGNATION	PB-14-0004
SURVEY BOOK		SHEETS	8 of 39
CONTRACT		PROJECT	PB-14-0004

Date: Sep 26, 2017, 12:17pm User Name: bstuzman File: H:_2014\14-0004\Road\CAD\Plan & Profiles.dwg