



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

*One Hamilton County Square
Noblesville, Indiana 46060-2230*

April 25, 2003

To: Hamilton County Drainage Board

Re: E.E. Bennett Drain and Republic Arm

Attached is a petition for reconstruction filed by the City of Noblesville along with easement descriptions, plans, calculations, quantity summary and schedule of assessment for the E.E. Bennett Drain and Republic Arm. 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 in the petition. Upon doing so, I believe that the Drains are 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 the land likely to be benefited.

The Drain will consist of the following:

E.E. Bennett Drain:

- 2,116-feet of open ditch.
- 47-feet of triple 30-inch RCP.
- 1,855-feet of lineal pond.
- 1,650-feet of open ditch within the detention pond as measured from both inlets to the pond to the outlet.
- 90-feet of 12-inch CMP from the Southeast corner of the detention pond to the interception with the Kinnaman Drain Arm of the E.E. Bennett Drain.
- 186-feet of 54" RCP
- 70-feet of 10' x 5' box culvert under State Road 238.
- 100-feet of 28' x 9' box culvert under Road A.

Republic Arm of the E.E. Bennett: (New Drain)

- 430-feet of open ditch from Sand Creek STA 10+00 to STA 13+00 and 13+50 to 14+80.
- 50-feet of 6-foot x 3-foot Box Culvert under Brookschool Road.
- 1,483-feet of 48-inch RCP (MH Strs. # 1 thru 7).

Total of length or relocated Bennett Drain and Kinnaman Arm Drain is 6,075 feet. The total of the new Republic Arm is 1963 feet. The total reconstructed drain length is 8,038 feet.

The existing E.E. Bennett Drain from its terminus into Sand Creek (Sta. 155+91) to the east line of tract 13-11-23-00-00-011.000 (Sta. 95 + 40) and the portion of the Kinnaman Drain from it's intersection into the E.E. Bennett Drain (Sta. 28+00) to the east line of tract 13-11-23-00-00-011.000 (Sta. 22+70) will be vacated with this proposal. The length of drain vacated is 6,051 feet for the Bennett and 530 feet for the Kinnaman Drain. The total length to be vacated is 6,581 feet. This proposal shall add 1,457 feet to the Drains total length.

The cost estimates prepared by American Consulting, Inc. are attached to this report. The cost for the reconstruction and relocation of the Bennett Drain is estimated at \$936,491.00. The cost for the new Republic Arm to the Bennett Drain is estimated at \$387,459.00. The total cost of these sections of drain equal \$1,323,950.00 This cost shall be spread equally across the drainage shed as a future assessment, which is further described below, as these portions provide future conveyance.

The cost of the detention pond expansion, which is estimated at \$424,925.00, and the Phase I of the detention pond, which is estimated at \$1,370,881.00, shall be paid by the City of Noblesville.

The current maintenance assessment rates will not change with this proposal. The rates which were established per my report dated April 3, 2001 and approved by the Board at hearing on April 23, 2001 (see Drainage Board Minutes Book 6, pages 25-27) will not be affected by the proposed reconstruction. However, due to the relocation of the drain and the construction of the Republic Arm additional tracts will now be assessed for maintenance. These tracts are as follows:

Miller, Wayne S & Cornett Trust & Adaline	13-11-22-00-00-007.001
Bubenzer, Marilyn	13-11-22-00-00-008.000
Interstate Holdings c/o Republic Dev.	13-11-23-00-00-002.000
Watson, Peter R. & Christy A.	13-11-23-00-00-003.000
Irvine, William 90% & Cornett T.R. Adaline	13-11-23-00-00-004.000
Interstate Holdings c/o Republic Dev.	13-11-23-00-00-011.000
Interchange Diversified LLC	13-11-23-00-00-011.001
Irvine, William 90% & Cornett T.R. Adaline	13-11-23-00-00-022.000

Except for the Miller tract listed above, all other tracts listed above are also being assessed currently for the T.J. Patterson Drain. The acres assessed from these tracts for the Patterson Drain will be reduced by the number of acres now to be assessed to the Bennett Drain.

The cost of the reconstruction is to be paid by the Noblesville Redevelopment Authority. The reconstruction assessment is a future assessment to those properties within the drainage shed. Tracts owned by Interstate Holdings and Interchange Diversified, tracts 13-11-23-00-00-011.000, 13-11-23-00-00-011.001 and 13-11-23-00-00-002.000, shall be considered as urban land per IC 36-9-27-69 as of the date of the completion of the reconstruction. These tracts along with all state, county and city streets, roads, and highways shall be considered as being converted from rural land to urban land at that time. These roads subject to urban assessment shall include the proposed road systems on the plan submitted by the City of Noblesville.

All other properties shall be considered rural lands. The reconstruction assessment will be based upon an urban drain and shall not be payable until parcels of real estate are changed from rural land. When acreage is developed and results in the discharge of storm water from land into the reconstructed drain, a reconstruction assessment of \$1,571.00 per acre of developed land shall be fully payable.

All reconstruction assessments, whether deferred or payable at the conclusion at the reconstruction, shall be paid to the Noblesville Redevelopment Authority as the entity which is paying the cost of the reconstruction. Noblesville Redevelopment Authority, in its sole discretion, shall have the right to provide to any property owner whose land is benefited by the reconstruction credits toward the reconstruction assessment.

All deferred reconstruction assessments shall be collected at the time an improvement location permit is issued for the developed land. These assessments shall be transferred to the Noblesville Redevelopment Authority, or its designee, as partial reimbursement of the cost of the reconstruction.

Damages for the reconstruction and relocation of the E.E. Bennett Drain, per this report, shall be set a \$0.00.

The maintenance of the detention pond and the lineal detention pond, which are to be constructed, will be the responsibility of Republic Development. Republic shall perform any maintenance as required by the Hamilton County Drainage Board or Surveyor. Republic shall have up to 30 days from the date of notification by Hamilton County to perform such maintenance. Any maintenance identified as emergency maintenance shall be done within 24 hours of notification by Hamilton County.

The project has been granted a Section 401 Water Quality Certification from IDEM as per letter dated April 16, 2003. The Corps of Engineers Section 404 permit is not required as the activities to be performed with this project fall under the Regional General Permit No. 1 issued February 11, 2000 per Corps letter dated November 18, 2002.

Upon review of the U.S.G.S. quadrangle maps for Riverwood and McCordsville, I found that the area in question is not denoted by a solid blue line. Therefore, the project does not fall under the jurisdiction of IDNR per IC 14-28-1-22 and a permit is not required.

The area within the drainage shed has been analyzed for future requirements for detention. It has been determined that the County standard established for detention shall apply. Thus, tracts developed upstream and downstream of the detention pond to be built on the Republic property shall be required to detain storm water run off at the 2-10-100 standard. This detention is to be done onsite for each individual tract as it is developed.

Additional easements are required under IC 36-9-27-33 for the new sections of the drain. These easements are to be obtained by the City of Noblesville prior to construction. These easements are needed from the following properties:

Marilyn Brubenzer	13-11-22-00-00-008.000
Wayne S. Miller Adaline M Cornett and Eugene P. Cornett, Trustee	13-11-22-00-00-007.001
William O. Irvine (90% interest), Adaline M. Cornett & Eugene Cornett Sole Trustee (10%)	13-11-23-00-00-004.000

The easement descriptions for the new easements are attached.

Bonds for the reconstruction and relocation of the Bennett Drain shall be held by the City of Noblesville. Inspection of the construction activities shall be done jointly by the City of Noblesville and the Hamilton County Surveyor's Office.

I recommend the Drainage Board set a hearing for this proposed reconstruction for May 27, 2003.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor


KCW/pll

To: Hamilton County Drainage Board

Re: In the matter of the E.E. BENNETT 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 the regulated drain be reconstructed in FALL CREEK 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 sections 22 & 23, township 18 north, range 5 east, Hamilton County, Indiana.
5. That the proposed reconstruction consist of _____
SEE EXHIBIT
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 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 expenses if the petition is dismissed.
9. 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.

Signature	Printed Name	Printed Address
	_____	_____
<u>CITY OF NOBLESVILLE</u>	_____	_____
<u>BY: CHRIS HAMM</u>	_____	_____
<u>ECONOMIC DEVELOPMENT DIRECTOR</u>	_____	_____

E. Bennette Regulated Drain
Drainage Reconstruction Plan

The drainage improvements will consist of two major drainage components. The first is the reconstruction of the E. Bennette Regulated Drain ("the Northern Drain"). The Northern Drain, as reconstructed, will have three major components. The most easterly component will be a new retention pond which will collect water from the upstream (easterly) part of the Bennette watershed and run off from roads and private development in the northern part of the Area. The second part of the drain will be a large linear pond located downstream and west of the retention pond. This linear pond will discharge into an open ditch which will discharge into Sand Creek as set out in the Plan.

The Northern Drain will provide both retention and conveyance capacity. Only the portion of the Northern Drain which provides for conveyance of the upper watershed to Sand Creek provides benefit to the watershed. Therefore, the chargeable reconstruction costs for the Northern Drain are only the costs of constructing a 5500 foot trapezoidal ditch from the outlet pipes of the existing drainage structures at the east end of the Northern Drain to Sand Creek. Those costs are shown on Exhibit A as Nine Hundred Thirty-six Thousand Four Hundred Ninety-one Dollars (\$936,491). The balance of the costs of constructing the Northern Drain or Eight Hundred Fifty-nine Thousand Two Hundred Fifteen Dollars (\$859,215) shall be paid by the Petitioner, City of Noblesville, and will not be part of the reconstruction assessment.

The second component of the Drainage Reconstruction will be the construction of a new Saxony Arm of the E. Bennette Drain. This Arm will be located south of the reconstructed Bennette Drain and will discharge into Sand Creek. This Arm will also serve part of the land previously located in the watershed of the Patterson Drain. Those acres will be changed from the Patterson Drain to the Bennette Drain. The cost of this Arm is estimated at Three Hundred Eighty-seven Thousand Four Hundred Fifty-nine Dollars (\$387,459) as set forth in Exhibit B.

Therefore, the reconstruction costs subject to the reconstruction assessment are as follows:

Cost of construction of hypothetical ditch 5500 feet as part of the Northern Ditch	\$ 936,491
Cost of new Saxony Arm	<u>387,459</u>
TOTAL	\$1,323,950

The Northern Drain shall include a retention pond located east of Road "A" and north of Road "B" shall be constructed initially with a surface area of approximately 6 acres to the requirements of the Hamilton County Surveyor's Office (HCSO). Approximately 600 feet of 4-foot wide bottom ditch shall be constructed from the intercepting point with the existing field tile and then run westerly to the retention pond. A linear pond shall connect to the retention pond and run west for an approximate distance of 1900 feet terminating at an outfall structure consisting of the three (3) 30-

inch reinforced concrete culvert outlets and 38-foot wide concrete weir to prevent the pond overtopping. The ponds shall include a safety ledge and slopes as designated by the Surveyor's office.

Approximately 2,100 feet of an outfall ditch shall extend westward to a terminus at Sand Creek. This 24 to 40-foot wide bottom ditch shall have a two-stage trapezoidal channel. The low-flow channel shall be five-foot wide at the base and one-foot deep. The bottom dimensions and slopes shall be acceptable to the County Surveyor. A temporary drainage structure (approximately 62 feet of 5-foot rise x 10-foot span precast reinforced concrete box culvert) shall be constructed at the crossing with the existing SR 238.

In addition, a new legal drain arm called the Saxony Arm shall be constructed along Road "L" and shall run westerly from the proposed cul-de-sac to a terminus at Sand Creek. The Saxony Arm shall consist of approximately 1,700 feet of 48-inch reinforced concrete storm pipe and 430 feet of four-foot wide bottom ditch in accordance with the HCSO requirements. Approximately 50 feet of two (2) 2-foot rise x 4-foot span precast reinforced concrete box culverts shall be provided at the crossing with Brooks School Road in accordance with the Hamilton County Highway Department requirements.

The City of Noblesville, acting through its Redevelopment Authority, shall pay all costs of the reconstruction, including construction of the retention components in the Northern Drain. The Petitioner shall request that the approximately 200 acres of land

presently controlled by Republic Development and the land proposed for streets and rights of way be immediately assessed as urban land pursuant to Section 69 of the Drainage Code.

The City requests that the balance of the land in the new Bennette watershed be considered rural land under the Code and that the assessment on said land be deferred until the rural land is developed. All deferred assessments should be collected at the time an improvement location permit is issued for the developed land and transferred to the City or its designee.

The portion of the assessment for the land owned by Republic Development and the proposed streets shall be credited to the City because the City paid the cost of the reconstruction.

AMERICAN CONSULTING, INC.

PRELIMINARY ENGINEER'S ESTIMATE

PROJECT: NOBLESVILLE CORPORATE CAMPUS - EAST

12/4/2002

E.E. BENNETT LEGAL DRAIN RELOCATION AND RECONSTRUCTION

DESCRIPTION: NEW REPUBLIC ARM

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	3' RISE x 6' SPAN PRECAST RC BOX CULVERT	LFT	50	\$ 310.00	\$15,500.00
2	48" RCP	LFT	1714	\$ 80.00	\$137,120.00
3	HEADWALL WITH FLAPGATE	EACH	1	\$ 5,000.00	\$5,000.00
4	7-FOOT DIAMATER MANHOLE	EACH	6	\$ 4,000.00	\$24,000.00
5	GRANULAR BACKFILL	TON	4,000	\$ 17.00	\$68,000.00
6	COMMON EXCAVATIONS	CY	4,300	\$ 5.25	\$22,575.00
7	TOPSOIL STRIPPING & RESPREAD	SY	6,600	\$ 0.50	\$3,300.00
8	LINEAR DITCH GRADING	LFT	430	\$ 10.00	\$4,300.00
9	SITE CLEARING	LS	1	\$ 5,000.00	\$5,000.00
10	PAVEMENT REPLACEMENT	SY	60	\$ 70.00	\$4,200.00
11	18-INCH THICK REVETMENT RIP-RAP	CY	68	\$ 40.00	\$2,720.00
12	GEOTEXTILE	SY	133	\$ 7.00	\$931.00
13	MULCH SEEDING, U	SY	5,700	\$ 0.75	\$4,275.00
14	EROSION CONTROL BLANKET	SY	1000	\$ 3.00	\$3,000.00
15	MAINTENANCE OF TRAFFIC	LS	1	\$ 20,000.00	\$20,000.00
16	MOBILIZATION	LS	1	\$ 17,000.00	\$17,000.00
	SUBTOTAL				\$336,921.00
	MISC. & CONTINGENCIES (15%)				\$50,538.15
	TOTAL				\$387,459

FILED

FEB 20 2003

OFFICE OF HAMILTON COUNTY SURVEYOR

AMERICAN CONSULTING, INC.

PRELIMINARY ENGINEER'S ESTIMATE

PROJECT: NOBLESVILLE CORPORATE CAMPUS - EAST

12/4/2002

E.E. BENNETT LEGAL DRAIN RELOCATION AND RECONSTRUCTION

DESCRIPTION: ASSESSMENT - STORMWATER CONVEYANCE

APPROXIMATELY 5,000 FEET OF TRAPEZOIDAL DITCH

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	5' RISE x 10' SPAN PRECAST RC BOX CULVERT WITH WINGWALLS	LS	1	\$ 46,000.00	\$46,000.00
2	W-BEAM HIGHWAY GUARDRAIL	LFT	800	\$ 10.00	\$8,000.00
3	END TREATMENT	EACH	4	\$ 3,000.00	\$12,000.00
4	GRANULAR BACKFILL	TON	500	\$ 22.00	\$11,000.00
5	COMMON EXCAVATIONS	CY	65,000	\$ 5.25	\$341,250.00
6	TOPSOIL STRIPPING & RESPREAD	SY	102,000	\$ 0.50	\$51,000.00
7	LINEAR DITCH GRADING	LFT	5,450	\$ 15.00	\$81,750.00
8	SITE CLEARING	LS	1	\$ 10,000.00	\$10,000.00
9	PAVEMENT REPLACEMENT	SY	200	\$ 70.00	\$14,000.00
10	EXISTING FIELD TILE REMOVAL	LFT	1000	\$ 8.70	\$8,700.00
11	SILT FENCE	LFT	2250	\$ 1.00	\$2,250.00
12	18-INCH THICK REVETMENT RIP-RAP	CY	240	\$ 40.00	\$9,600.00
13	GEOTEXTILE	SY	470	\$ 7.00	\$3,290.00
14	ROCK CHECK DAM	LS	10	\$ 300.00	\$3,000.00
15	MULCH SEEDING, U	SY	70,000	\$ 0.75	\$52,500.00
16	EROSION CONTROL BLANKET	SY	30,000	\$ 3.00	\$90,000.00
17	MAINTENANCE OF TRAFFIC	LS	1	\$ 30,000.00	\$30,000.00
18	MOBILIZATION	LS	1	\$ 40,000.00	\$40,000.00
	SUBTOTAL				\$814,340.00
	MISC. & CONTINGENCIES (15%)				\$122,151.00
	TOTAL				\$936,491

FILED

FEB 20 2003

OFFICE OF HAMILTON COUNTY SURVEYOR

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
E. E. Bennett Drain and Republic

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the ***E. E. Bennett Drain and Republic Arm*** came before the Hamilton County Drainage Board for hearing ***on May 27, 2003*** 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.

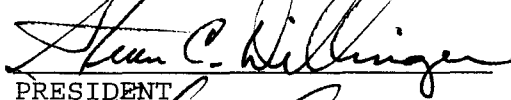
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included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

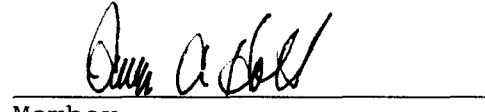
Wherefore, it is ORDERED, that the proposed Reconstruction of the ***E. E. Bennett Drain and Republic Arm*** be and is hereby declared established.

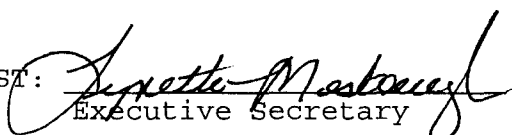
Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD


PRESIDENT


Member


Member

ATTEST: 
Executive Secretary

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Noblesville Corporate Campus East (I-69 & SR 238)

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana
2. I am familiar with the plans and specifications for the above referenced subdivision
3. The information provided is for the top of castings, invert elevations, cross sections and horizontal positions only, was completed under my supervision in February 2007, and that to the best of my knowledge and belief are true to the conditions at that time.

Signature: _____



Date: May 7, 2007

Type or Print Name: Jeffrey J. Franciski

Business Address: USI Consultants, Inc.

8415 East 56th Street, Indianapolis, Indiana 46216-220

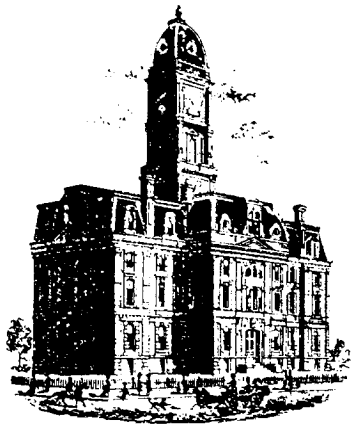
Telephone Number: 317-544-4996

Seal



INDIANA REGISTRATION NUMBER

LS20100074



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

To: Hamilton County Drainage Board

December 14, 2007

Re: EE Bennett Drain – Noblesville Corporate Campus Relocation and the Republic Arm

Attached are as-builts, certificate of completion & compliance, and other information for the Noblesville Corporate Campus Relocation and the Republic Arm. 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 April 25, 2003. The report was approved by the Board at the hearing held May 27, 2003. (See Drainage Board Minutes Book 7, Pages 69-74)

The changes are as follows:

Noblesville Corporate Campus Relocation:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:
	112	10' X 5' Box	CONCRETE	815.64	815.16	0.43
100-101	47	3 ROWS-30"	RCP	818.03	817.91	
	130	28' X 10' Box	CONCRETE			
001-001A	195	18"	CMP *			

RCP Pipe Totals:

3 ROWS-30"	47
box culvert	242
Total:	289

Other Drain:	
Open Ditch	5657
18" CMP	195

Total: 5852

*Replaced 186' feet of 54" RCP. The 90 feet of 12" CMP on the southeast end of the pond was not constructed. The original tile was outleted directly into the pond with an 15" CMP outlet pipe. The length of the Noblesville Corporate Campus Relocation due to the changes described above is now **6164 feet**.

Republic Arm to the EE Bennett:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:
1-2	241	48	RCP	814.02	813.51	0.2
2-3	152	48	RCP	812.44	813.27	0.2
3-4	506	48	RCP	813.27	812.4	0.2

4-5	320	48	RCP	812.29	811.89	0.2
5-6	270	48	RCP	811.55	811.09	0.2
6-7	231	48	RCP	811.22	811.09	0.2
	50	6' X 3' BOX	CONCRETE	809.7	809.6	0.2

RCP Pipe Totals:

48"	1720
6' x 3' box culvert	50
Total:	<u>1770</u>

Other Drain:	
Open Ditch	430
Total:	<u>430</u>

The length of the **Republic Arm to the EE Bennett** Drain due to the changes described above is now **2200 feet**.

The project vacated the original EE Bennett Drain from Sta. 99+20 to Sta 163+20 and vacated the Kinnaman Arm from Sta 23+01 to Sta 30+01. These stations were slightly modified from the ones listed in my original report to the board. This was due to mapping corrections made in 2004. Therefore, 7100 feet of original tile was vacated with this project and overall, the relocation and new republic arm added 1264 feet to the EE Bennett Drain.

Additional easements were required for the new sections of the drain. These easments were obtained by the City of Noblesville prior to construction. These easements were recorded in the Hamilton County Reocorder's Office under the following instrument numbers: #200500024476, #200500024477, #200500024478.

The sureties for this project were held and released by the City of Noblesville. I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

POST CONSTRUCTION SURVEY

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: 12-17-07
 Entered By: SLM

These cross sections represent the condition of the Noblesville Corporate Campus drainage, and were completed under my supervision during the month of February 2007 and that, to the best of my knowledge and belief, are true to the existing conditions on that date.

Jeffrey J. Francisk
 Date: 02/20/2007

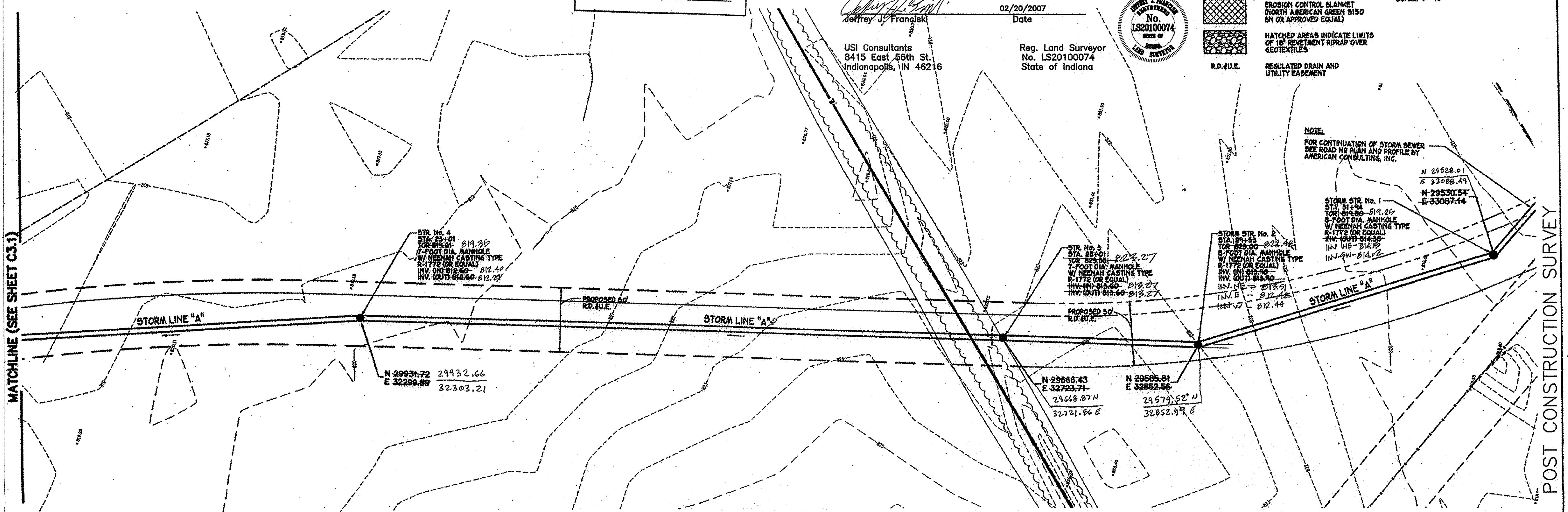
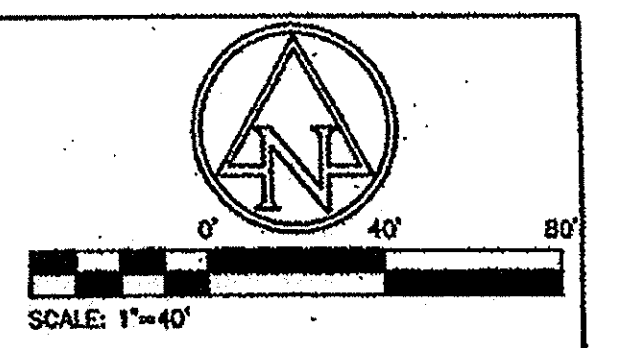
USI Consultants
 8415 East 86th St.
 Indianapolis, IN 46216

Reg. Land Surveyor
 No. LS20100074
 State of Indiana

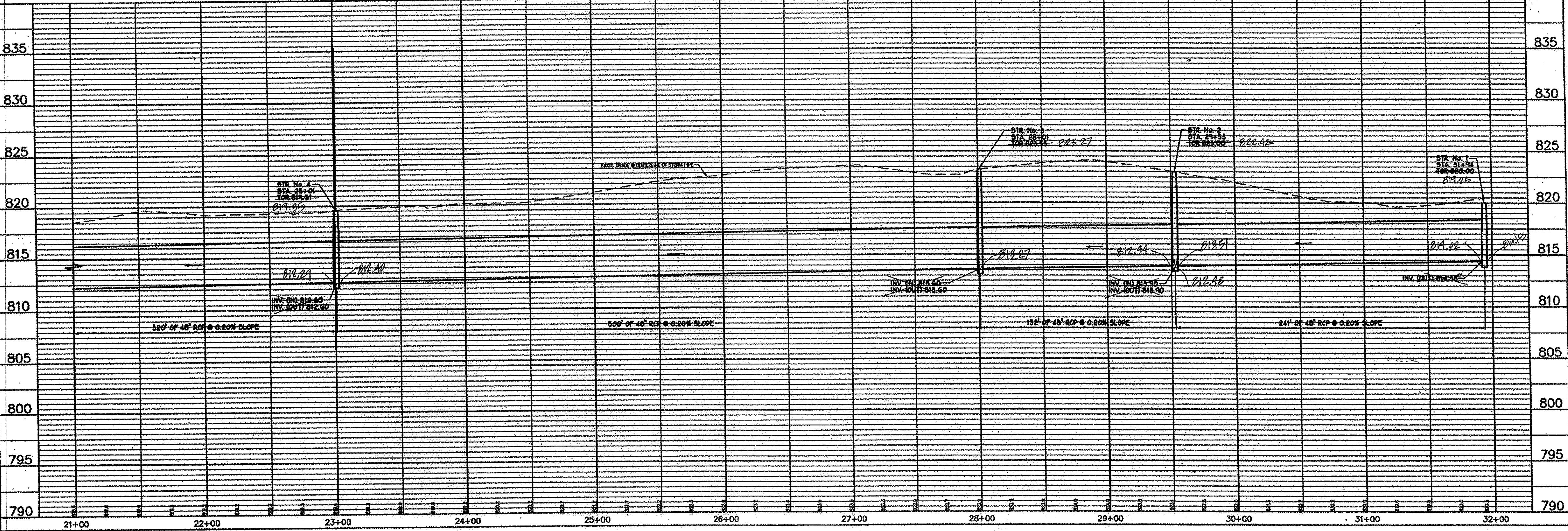


PROPOSED LEGEND

- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATIONS
- SILT FENCE
- ROCK CHECK DAM
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 9150 IN OR APPROVED EQUAL)
- HATCHED AREAS INDICATE LIMITS OF 18" REVETMENT RIPRAP OVER GEOTEXTILES
- REGULATED DRAIN AND UTILITY EASEMENT



STORM LINE "A"



MATCHLINE (SEE SHEET C3.1)

POST CONSTRUCTION SURVEY

CITY OF NOBLESVILLE
 14701 CUMBERLAND ROAD, SUITE 300
 NOBLESVILLE, INDIANA 46080

AMERICAN CONSULTING, INC.
 7260 SHARDELAND STATION
 INDIANAPOLIS, IN 46256-3917
 (317) 547-5580 FAX (317) 547-0270

ALAN FETAHAK
 No. 19900549
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 CERTIFIED BY

PLAN AND PROFILE - OUTFALL PIPE

NOBLESVILLE CORPORATE CAMPUS EAST
 I-69 & S.R. 238
 NOBLESVILLE, INDIANA

DATE:	05/07/03
DRAWN BY:	FED
CHK'D BY:	AF
JOB NO.	IN2002.0575
REVISIONS	

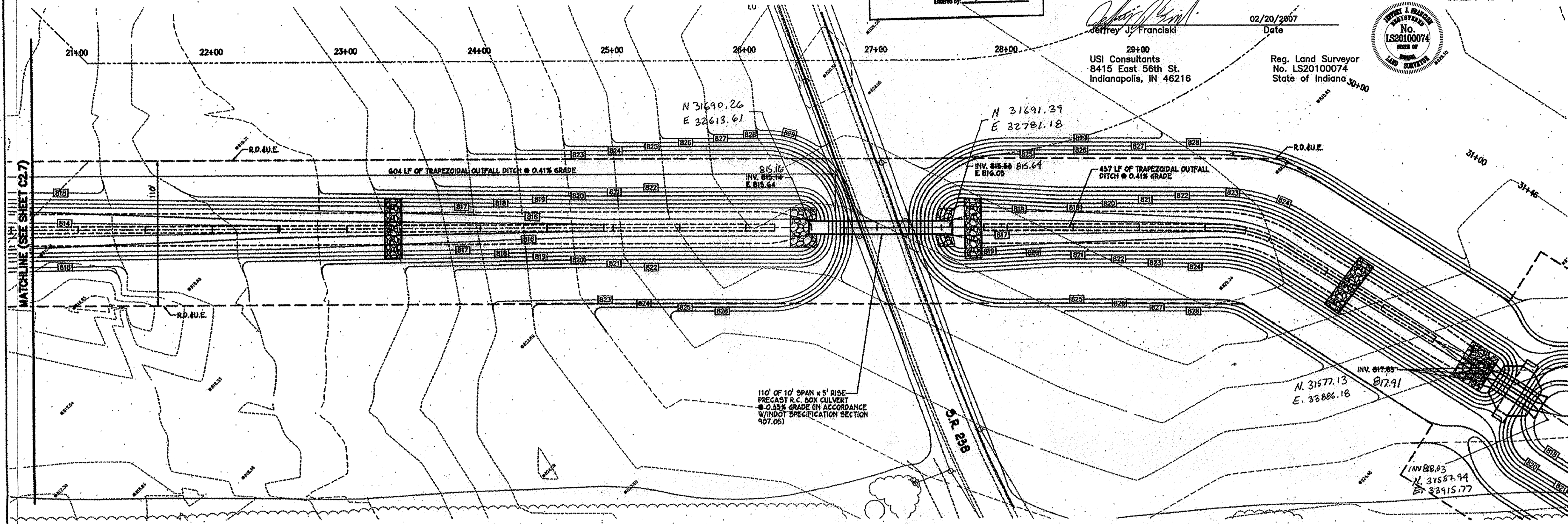
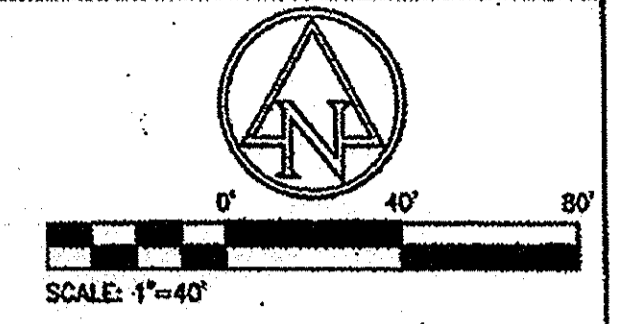
SHEET NO.
C3.2
 25 OF 200

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: 12-17-07
 Entered By: SLM

POST CONSTRUCTION SURVEY

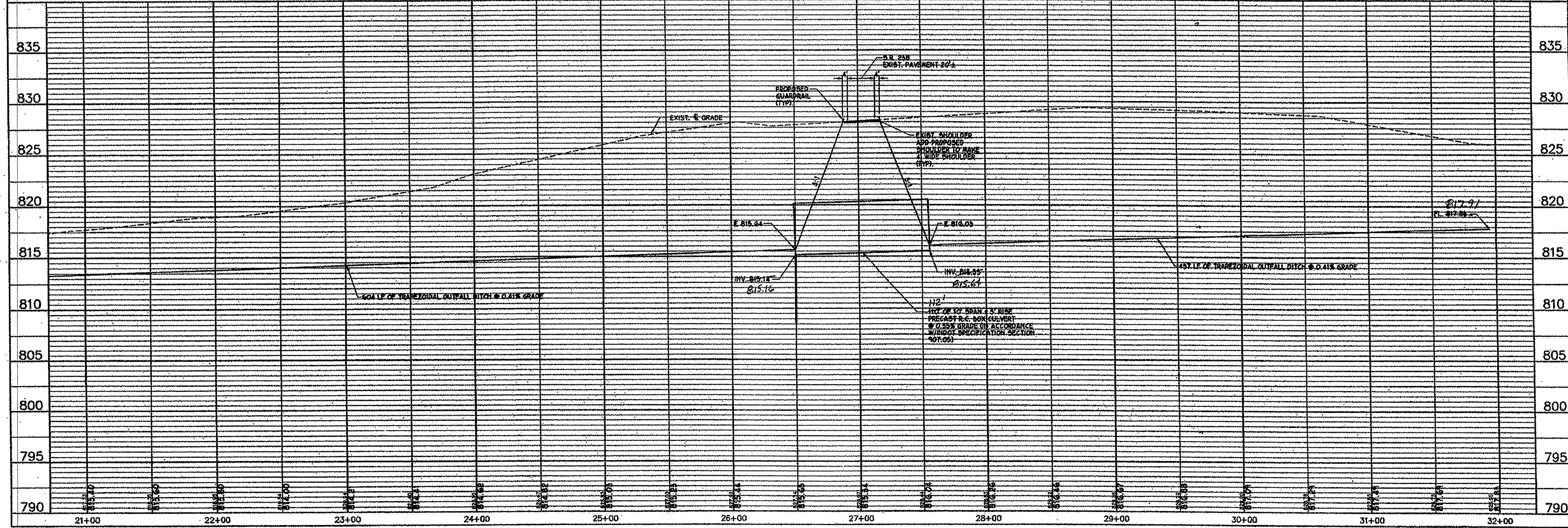
These cross sections represent the condition of the Noblesville Corporate Campus drainage, and were completed under my supervision during the month of February 2007 and that, to the best of my knowledge and belief, are true to the existing conditions on that date.

Jeffrey J. Franciski
 Date: 02/20/2007
 28+00
 USI Consultants
 8415 East 58th St.
 Indianapolis, IN 46216
 Reg. Land Surveyor
 No. LS20100074
 State of Indiana



OUTFALL DITCH

SCALE: 1"=40' (HORIZ)
 1"=5' (VERT)



POST CONSTRUCTION SURVEY

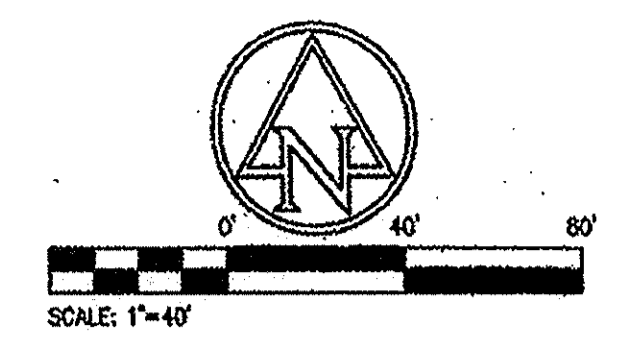
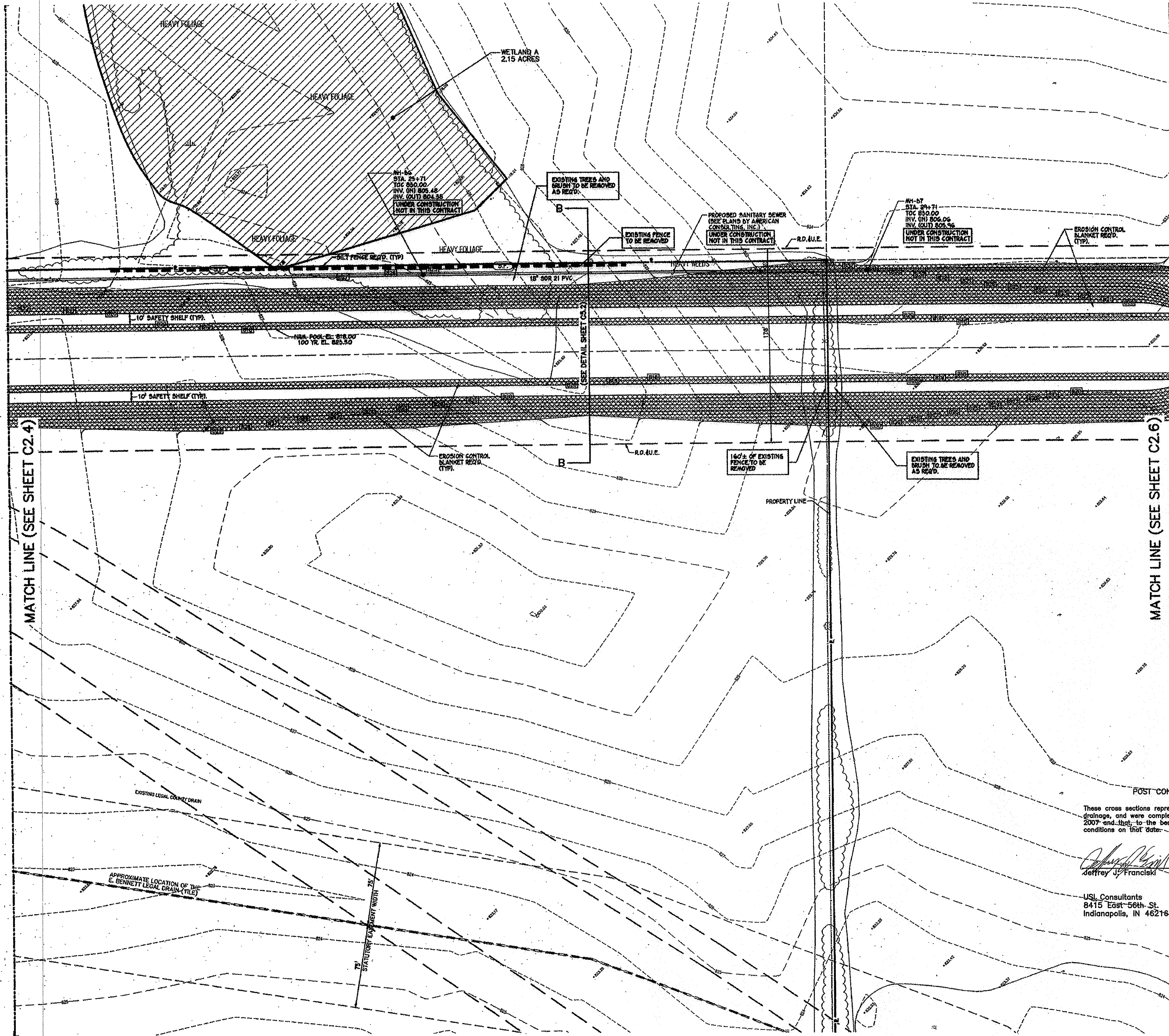
CITY OF NOBLESVILLE
 14701 CUMBERLAND ROAD, SUITE 300
 INDIANA 46080
 AMERICAN CONSULTING, INC.
 1760 SEADELAND STATION
 INDIANAPOLIS, IN 46225
 ARCHITECTS
 CONSULTANTS
 ENGINEERS
 CITY: 317-543-5389 FAX: 317-543-0270



PLAN AND PROFILE - OUTFALL DITCH
 NOBLESVILLE CORPORATE CAMPUS EAST
 I-69 & S.R. 238
 NOBLESVILLE, INDIANA

DATE:	05/07/03
DRAWN BY:	PED
CHK'D BY:	AF
JOB NO.:	IN2002.0575
REVISIONS	

SHEET NO.
C2.8
 23 OF 200



- PROPOSED LEGEND**
- PROPOSED CONTOURS
 - PROPOSED SPOT ELEVATIONS
 - SILT FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL BLANKET (NORTH AMERICAN GREEN #150 5N OR APPROVED EQUAL)
 - HATCHED AREAS INDICATE LIMITS OF 18\"/>

- GENERAL GRADING NOTES**
1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
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 9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
 10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
 11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF NOBLESVILLE AND HCSS STANDARDS.
 12. INVERTS AT PIPE OUTLETS ARE GIVING AT END OF PIPE END SECTION.
 13. DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
 14. DUE TO SITE CONSTRAINTS, THE SITE WILL NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.

NOTE:
1. FOR EROSION CONTROL DETAILS AND SPECIFICATIONS (SEE SHEET CS.1).

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Entry Date: 12-17-07
Entered By: SLM

POST CONSTRUCTION SURVEY

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Jeffrey J. Franciski
Date: 02/20/2007

USL Consultants
8415 East-56th St.
Indianapolis, IN 46216

Reg. Land Surveyor
No. LS20100074
State of Indiana

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and meters made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

CITY OF NOBLESVILLE
14701 CUMBERLAND ROAD, SUITE 300
NOBLESVILLE, INDIANA 46060

AMERICAN CONSULTING INC.
2260 SHADBLAND STATION
INDIANAPOLIS, IN 46256-9177
(317) 547-5580 FAX: (317) 543-0270

ALAN FETAGHIC
No. 19900549
STATE OF INDIANA
PROFESSIONAL SURVEYOR

Alan Fetaghic
CERTIFIED BY

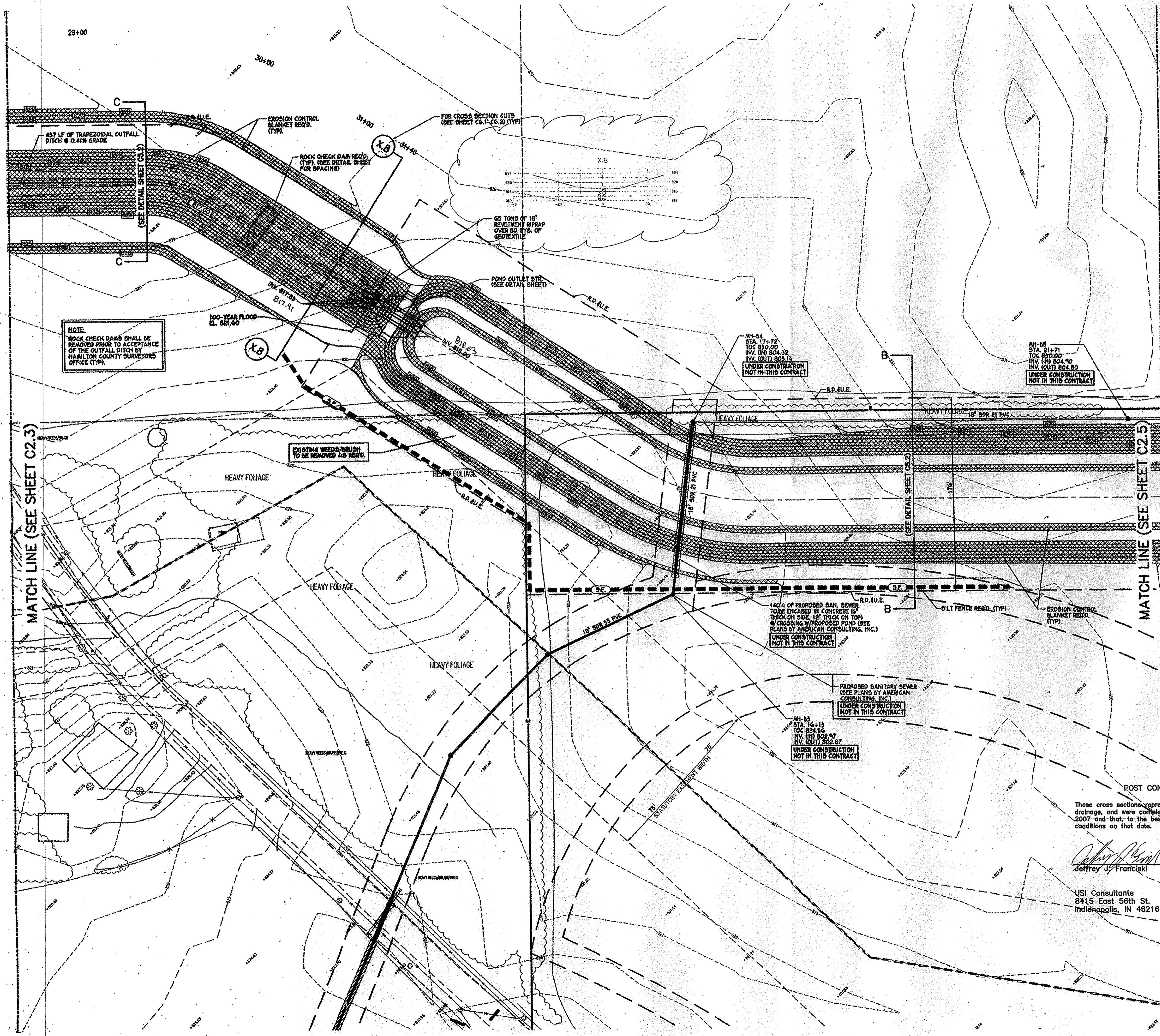
ENLARGED GRADING AND DRAINAGE AND EROSION CONTROL PLAN

NOBLESVILLE CORPORATE CAMPUS EAST
I-69 & S.R. 238
NOBLESVILLE, INDIANA

POST CONSTRUCTION SURVEY

DATE:	05/07/03
DRAWN BY:	RED
CHK'D BY:	AT
JOB NO.:	IN2002.0575
REVISIONS	

SHEET NO.
C2.5
18 OF 200



- PROPOSED LEGEND**
- PROPOSED CONTOUR
 - PROPOSED SPOT ELEVATIONS
 - DIRT FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 5150 OR APPROVED EQUAL)
 - HATCHED AREAS INDICATE LIMITS OF 18\"/>
 - REGULATED DRAIN AND UTILITY EASEMENT

- GENERAL GRADING NOTES**
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NOTE:
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Entry Date: 12-17-07
Entered By: SLM

POST CONSTRUCTION SURVEY
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Jeffrey J. Francisci
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USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

02/20/2007
Date

Reg. Land Surveyor
No. LS20100074
State of Indiana

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1-800-362-5544
- INDIANA UNDERGROUND -

CITY OF NOBLESVILLE
14701 CUMBERLAND ROAD, SUITE 300
NOBLESVILLE, INDIANA 46060

AMERICAN CONSULTING, INC.
7269 SHARDESLEIGH RD
INDIANAPOLIS, IN 46256-3917
(317) 547-5380 FAX: (317) 543-0270

Architects
Engineers

ALLEN FETTERHOLM
No. 19900549
STATE OF INDIANA
PROFESSIONAL ENGINEER
Allen Fetterholm
CERTIFIED BY

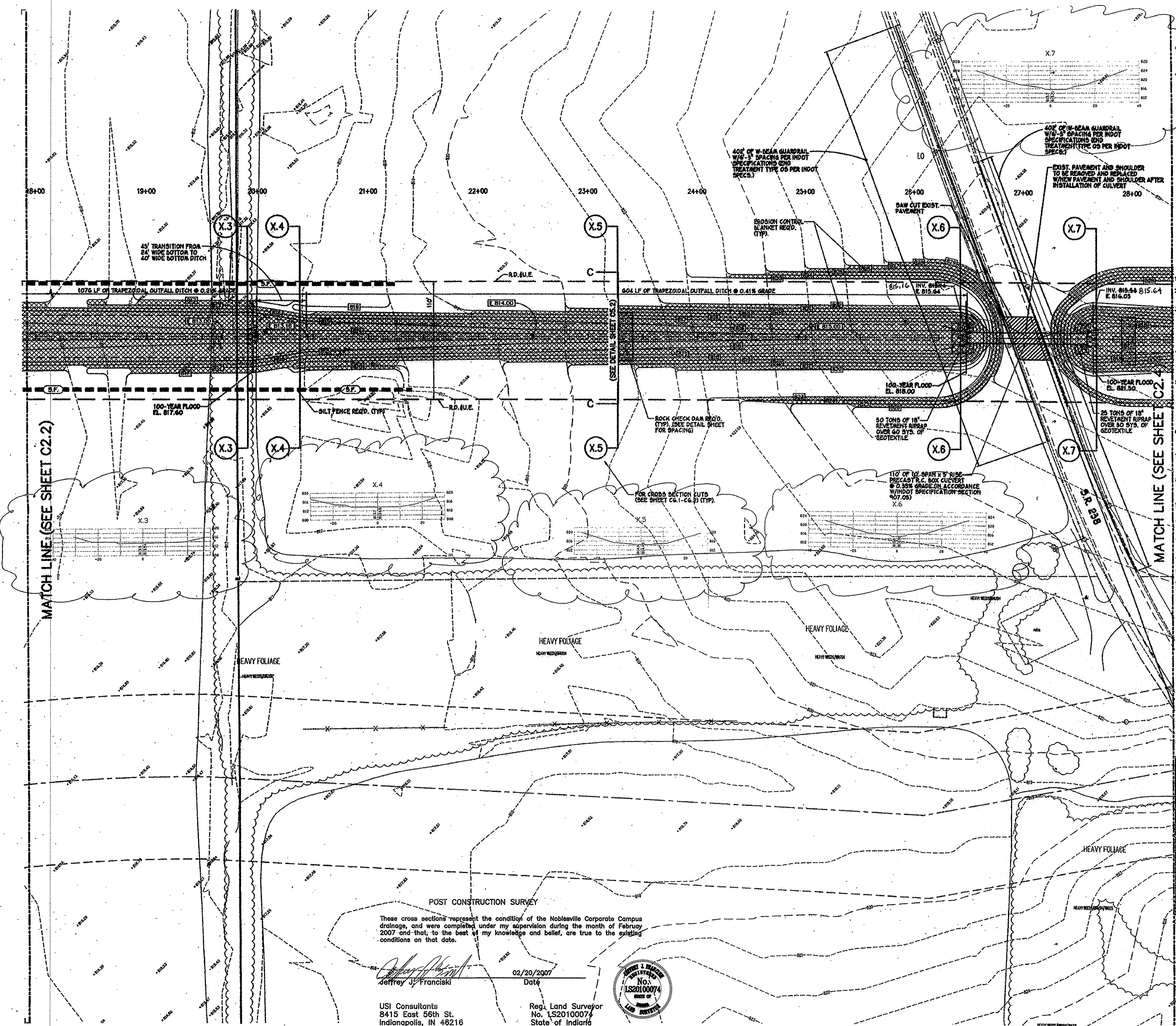
ENLARGED GRADING AND DRAINAGE AND EROSION CONTROL PLAN

NOBLESVILLE CORPORATE CAMPUS EAST
I-69 & S.R. 238
NOBLESVILLE, INDIANA

DATE:	05/07/03
DRAWN BY:	PED
CHK'D BY:	AF
JOB NO.:	IN2002.0575

REVISIONS	

SHEET NO.
C24
17 OF 200



- PROPOSED LEGEND**
- PROPOSED CONTOURS
 - PROPOSED SPOT ELEVATIONS
 - SILT FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 5150 OR APPROVED EQUAL)
 - HATCHED AREAS INDICATE LIMITS OF 18\"/>

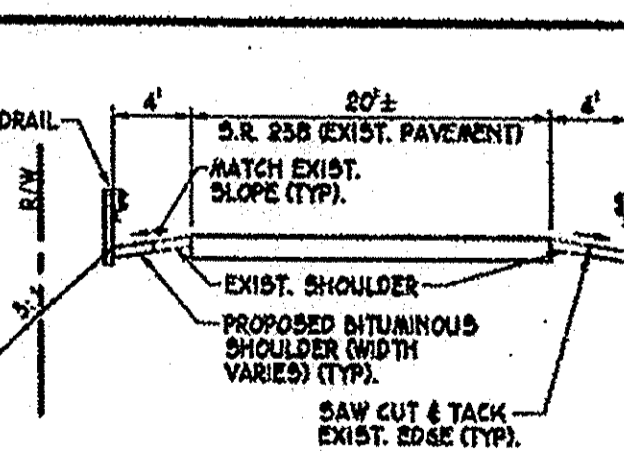
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NOTE:

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Entry Date: 12-17-07
Entered by: SLM



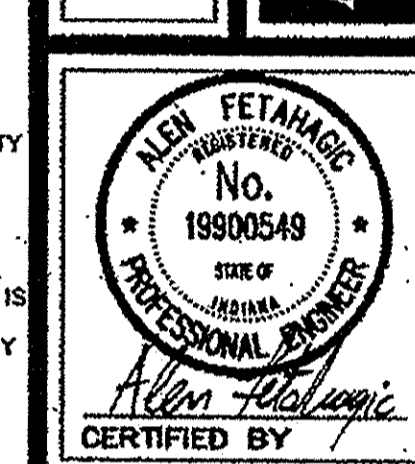
S.R. 238 - TYPICAL CROSS SECTION OF PROPOSED CULVERT
NOT TO SCALE

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1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

CITY OF NOBLESVILLE
14701 CUMBERLAND ROAD, SUITE 300
NOBLESVILLE, INDIANA 46060



AMERICAN CONSULTING, INC.
7250 SHADELAND STATION
INDIANAPOLIS, IN 46256-9917
(317) 547-5586 FAX: (317) 547-9270

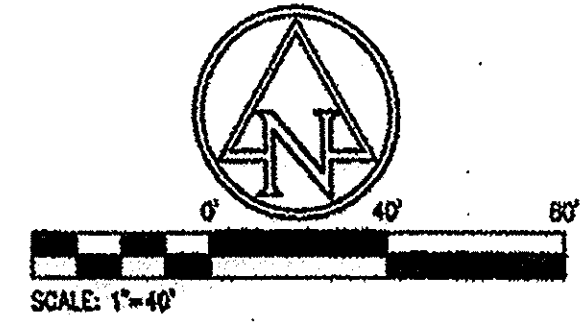
ENLARGED GRADING AND DRAINAGE AND EROSION CONTROL PLAN

NOBLESVILLE CORPORATE CAMPUS EAST
1-69 & S.R. 238
NOBLESVILLE, INDIANA

DATE:	05/07/03
DRAWN BY:	PEB
CHK'D BY:	AF
JOB NO.	IN2002.0575
REVISIONS	

SHEET NO.
C2.3
16 OF 200

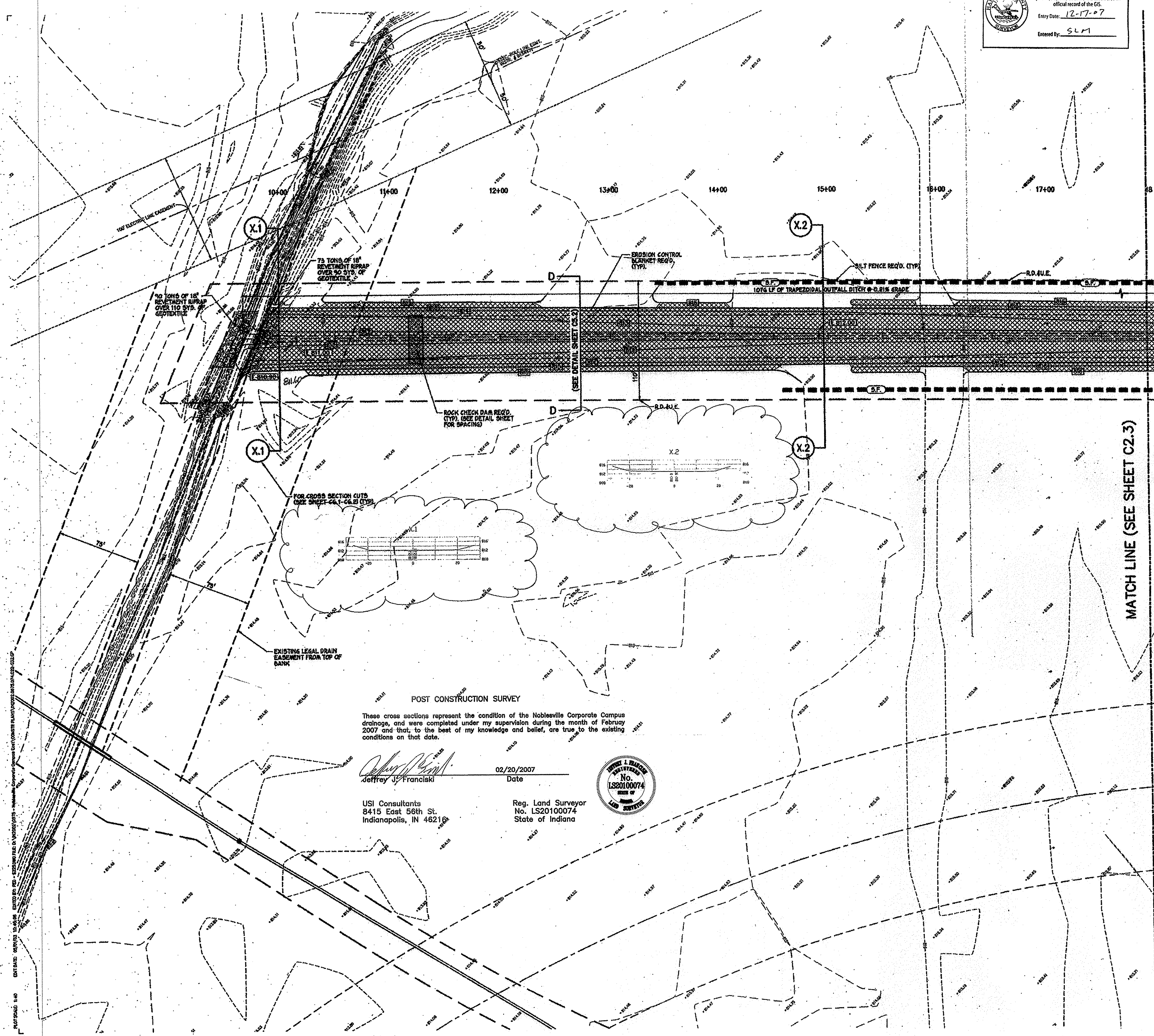
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 Entry Date: 12-17-07
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- PROPOSED LEGEND**
- PROPOSED CONTOURS
 - PROPOSED SPOT ELEVATIONS
 - SILT FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 5150 OR APPROVED EQUAL)
 - HATCHED AREAS INDICATE LIMITS OF 18" REVETMENT RIPRAP OVER GEOTEXTILES
 - R.D./U.E. REGULATED DRAIN AND UTILITY EASEMENT

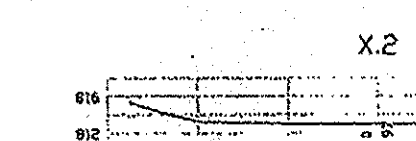
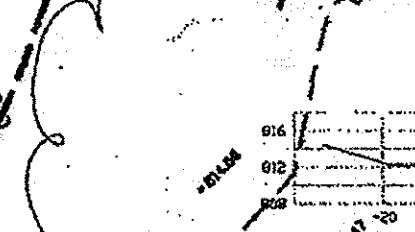
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NOTE:
 1. FOR EROSION CONTROL DETAILS AND SPECIFICATIONS (SEE SHEET C2.1).



MATCH LINE (SEE SHEET C2.3)

FOR CROSS SECTION CUTS
 (SEE SHEET C2.1-C2.5) (TYP)



POST CONSTRUCTION SURVEY
 These cross sections represent the condition of the Noblesville Corporate Campus drainage, and were completed under my supervision during the month of February 2007 and that, to the best of my knowledge and belief, are true to the existing conditions on that date.

Jeffrey J. Francisk
 Jeffrey J. Francisk
 Date: 02/20/2007

Date

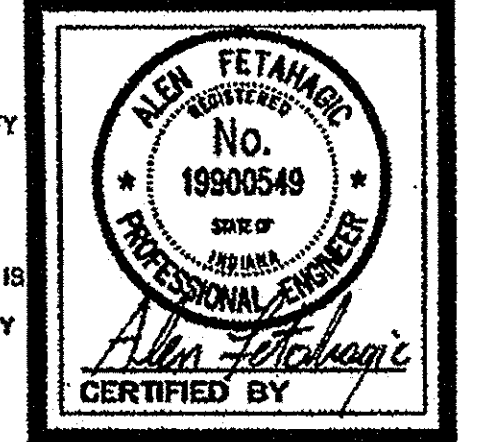
USI Consultants
 8415 East 56th St.
 Indianapolis, IN 46210

Reg. Land Surveyor
 No. LS20100074
 State of Indiana



CITY OF NOBLESVILLE
 14701 CUMBERLAND ROAD, SUITE 300
 INDIANA 46060

AMERICAN CONSULTING, INC.
 7869 SEADLAND STATION
 IN 47435-5500 FAX: (317) 543-0270



ENLARGED GRADING AND DRAINAGE AND EROSION CONTROL PLAN

NOBLESVILLE CORPORATE CAMPUS EAST
 1-69 & SR. 238
 NOBLESVILLE, INDIANA

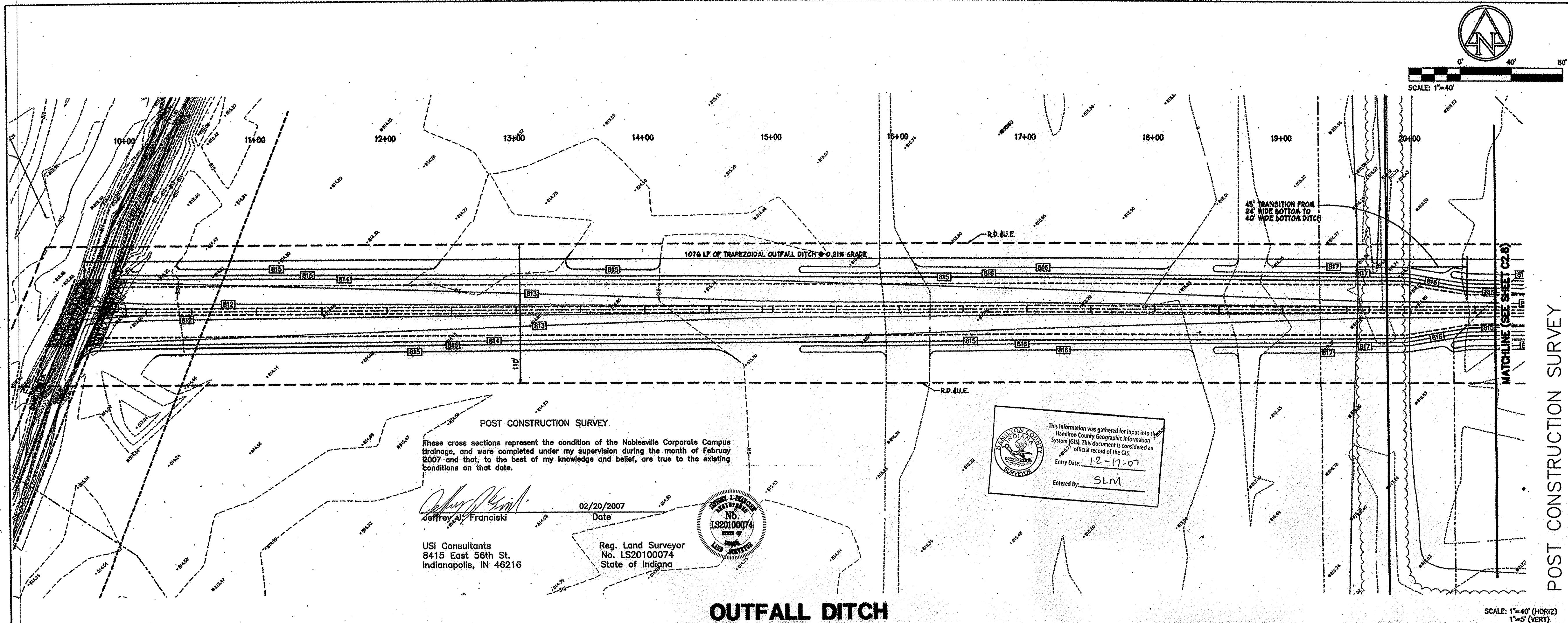
POST CONSTRUCTION SURVEY

DATE:	05/07/02
DRAWN BY:	PEB
CHK'D BY:	AF
JOB NO.	IN2002.0575

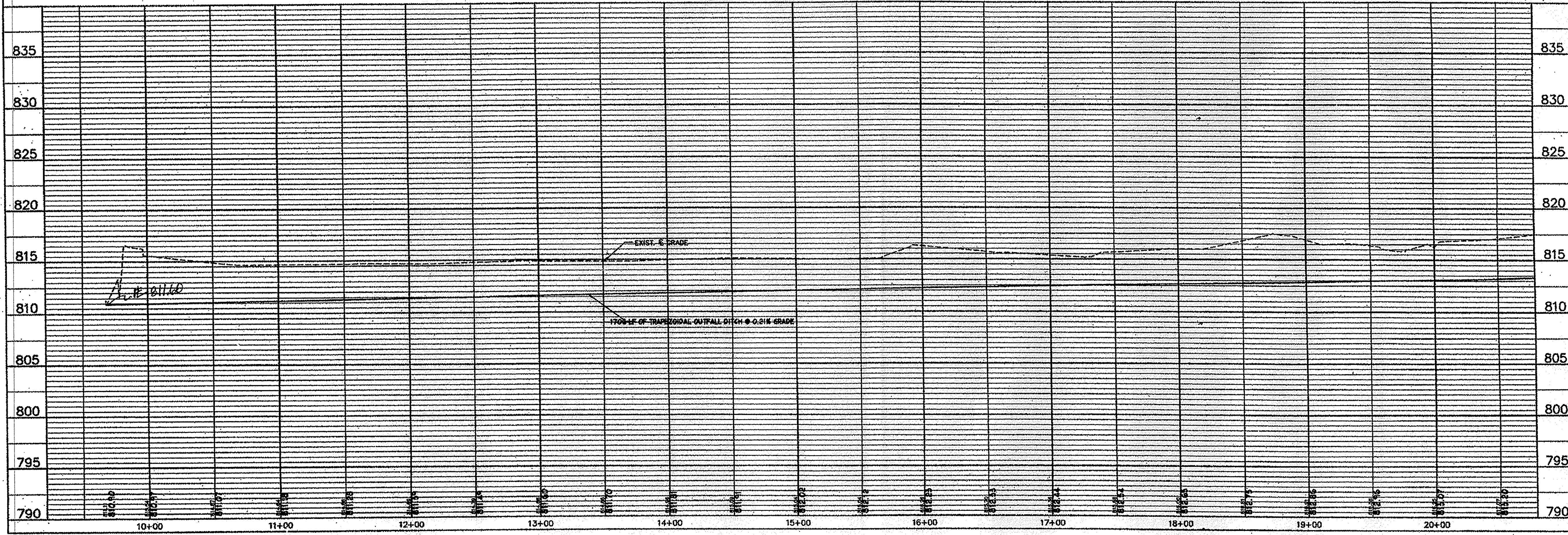
REVISIONS	

SHEET NO.
C2.2
 15 OF 200

CAUTION !!
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 1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -

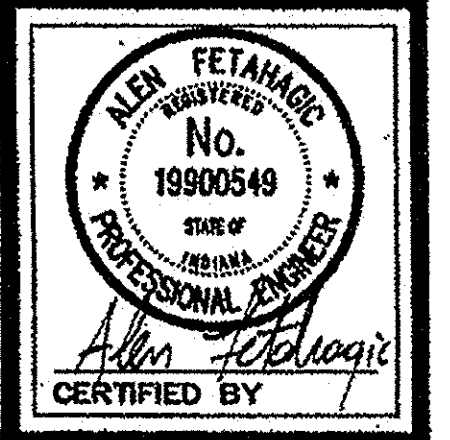


OUTFALL DITCH



CITY OF NOBLESVILLE
 14701 CUMBERLAND ROAD, SUITE 300
 INDIANA 46060

AMERICAN CONSULTING, INC.
 7569 SHADBLAND STATION
 INDIANAPOLIS, IN 46265-3917
 (317) 341-3580 FAX: (317) 345-0270

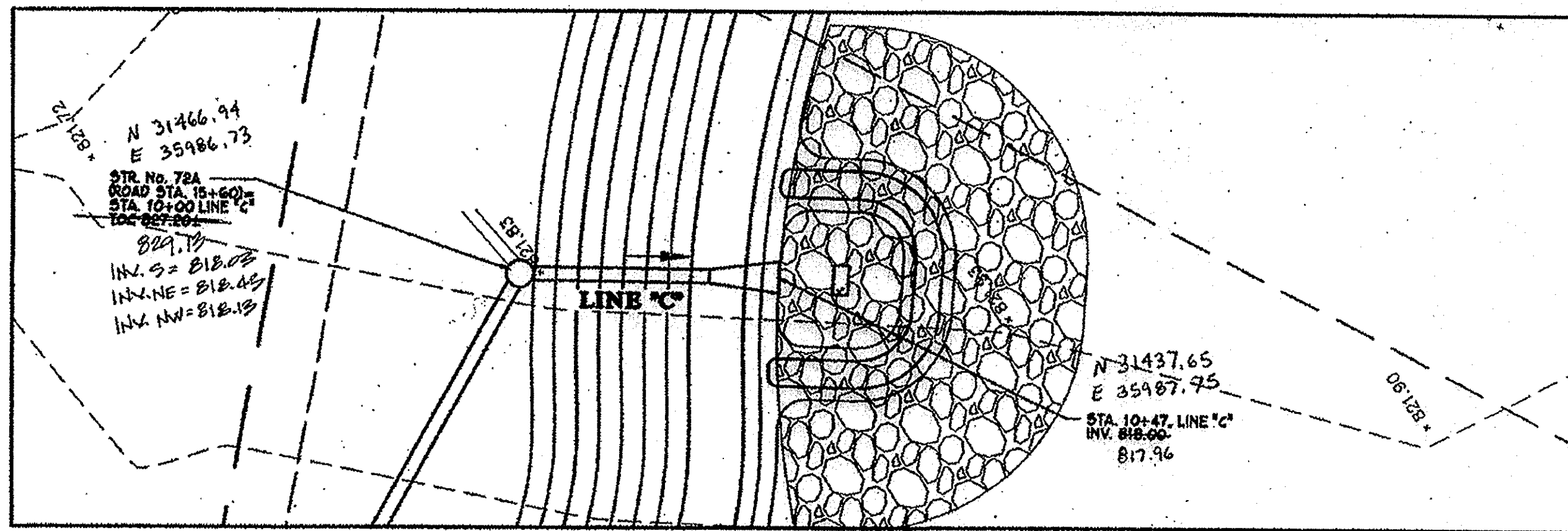


PLAN AND PROFILE - OUTFALL DITCH

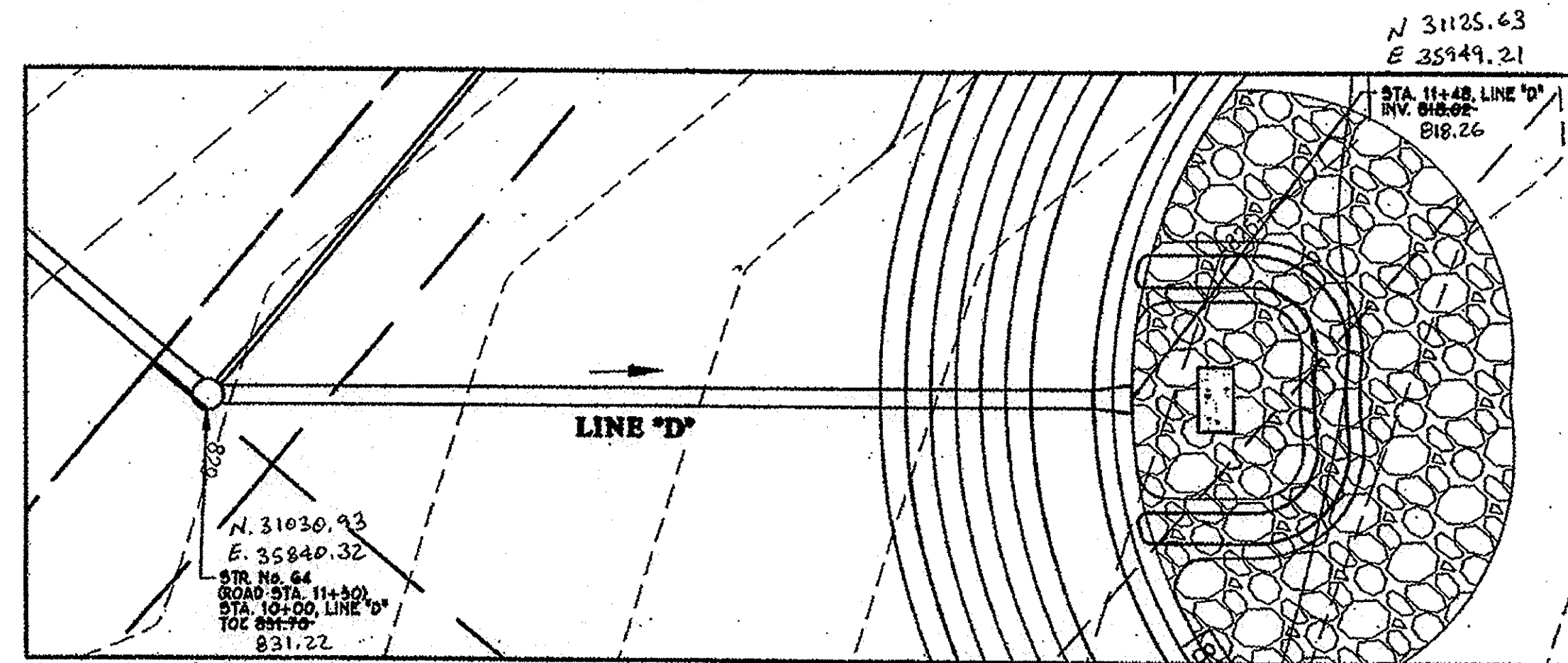
NOBLESVILLE CORPORATE CAMPUS EAST
 I-69 & S.R. 238
 INDIANA
 NOBLESVILLE

DATE:	05/07/03
DRAWN BY:	RED
CHK'D BY:	AF
JOB NO.	IN2002.0575
REVISIONS	

SHEET NO.
C2.7
 22 OF 200



PLAN VIEW - LINE "C"
SCALE: 1"=20'



PLAN VIEW - LINE "D"
SCALE: 1"=20'

POST CONSTRUCTION SURVEY

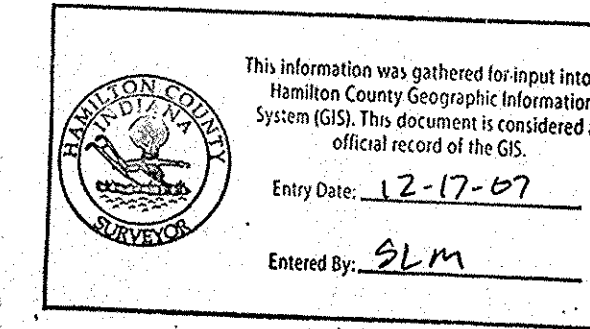
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Jeffrey J. Franciski
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02/20/2007
Date

USI Consultants
8415 East 56th St.
Indianapolis, IN 46216

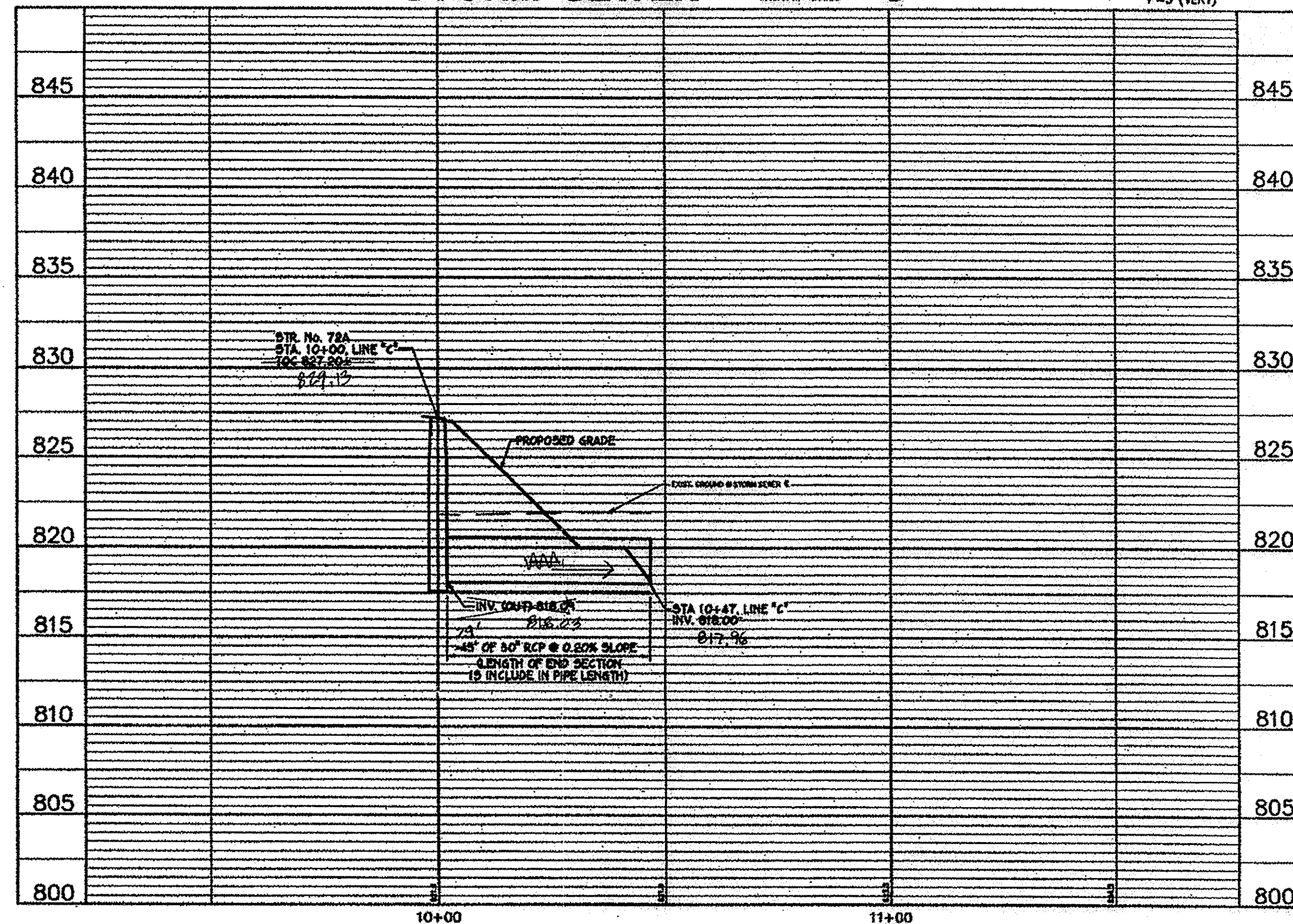
Reg. Land Surveyor
No. LS20100074
State of Indiana



POST
CONSTRUCTION
SURVEY

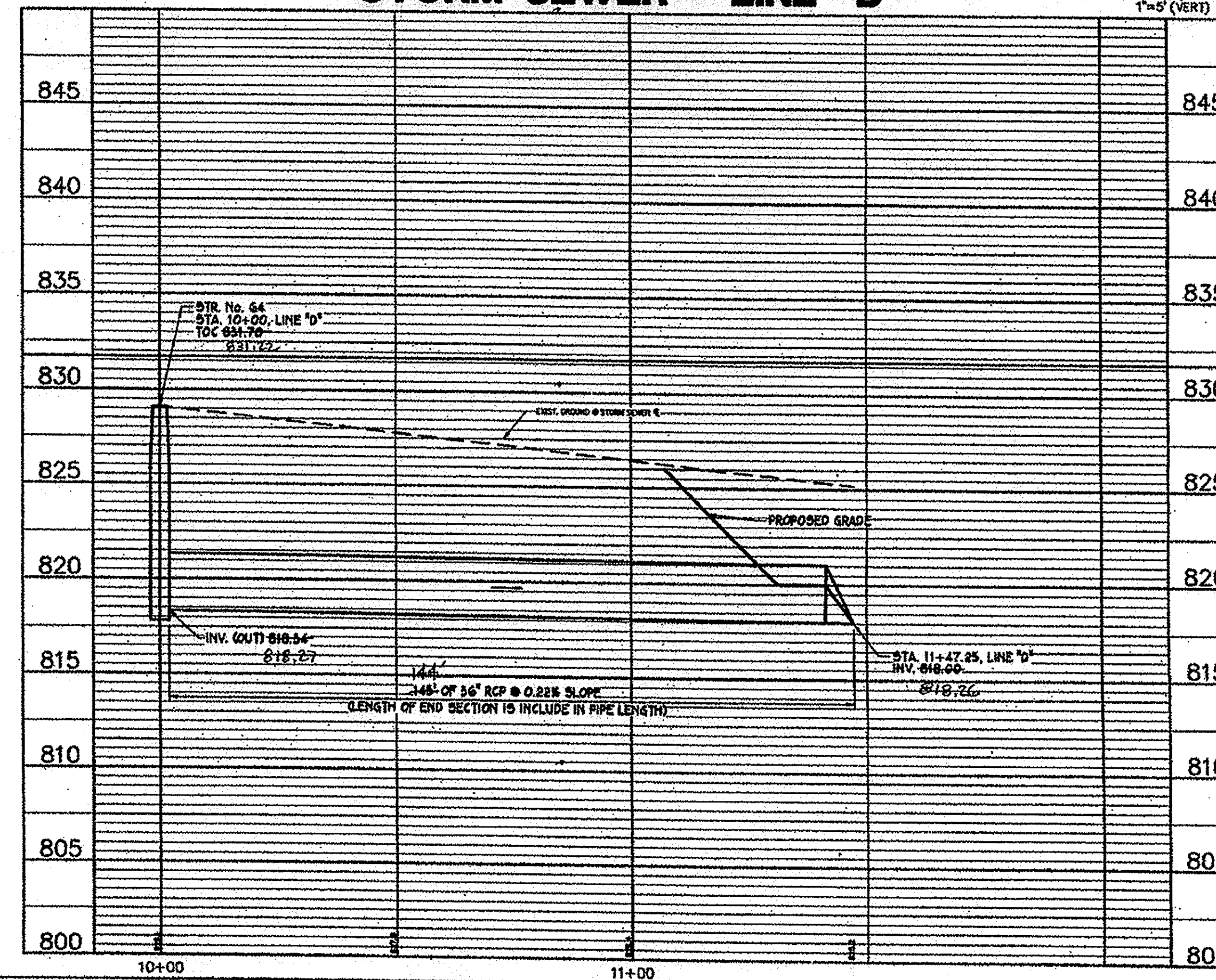
STORM SEWER - LINE "C"

SCALE: 1"=20' (HORIZ)
1"=5' (VERT)



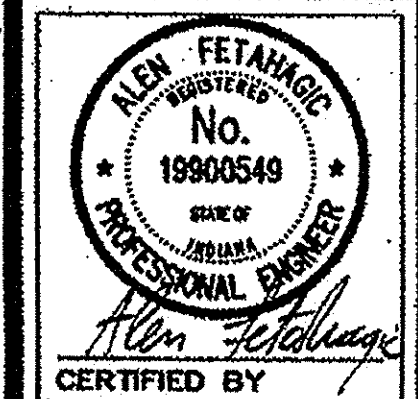
STORM SEWER - LINE "D"

SCALE: 1"=20' (HORIZ)
1"=5' (VERT)



CITY OF NOBLESVILLE
14701 CUMBERLAND ROAD, SUITE 300
NOBLESVILLE, INDIANA 46060

AMERICAN CONSULTING INC.
7260 SHADELAND STATION
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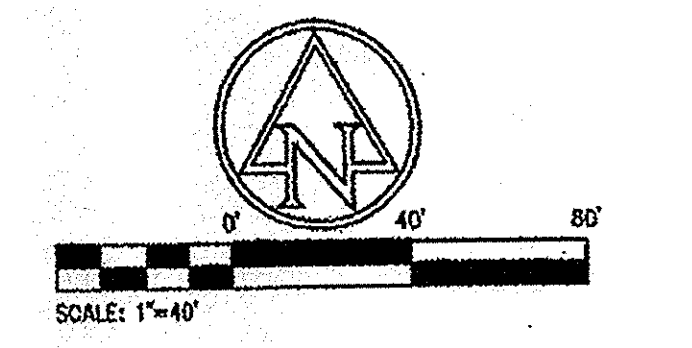
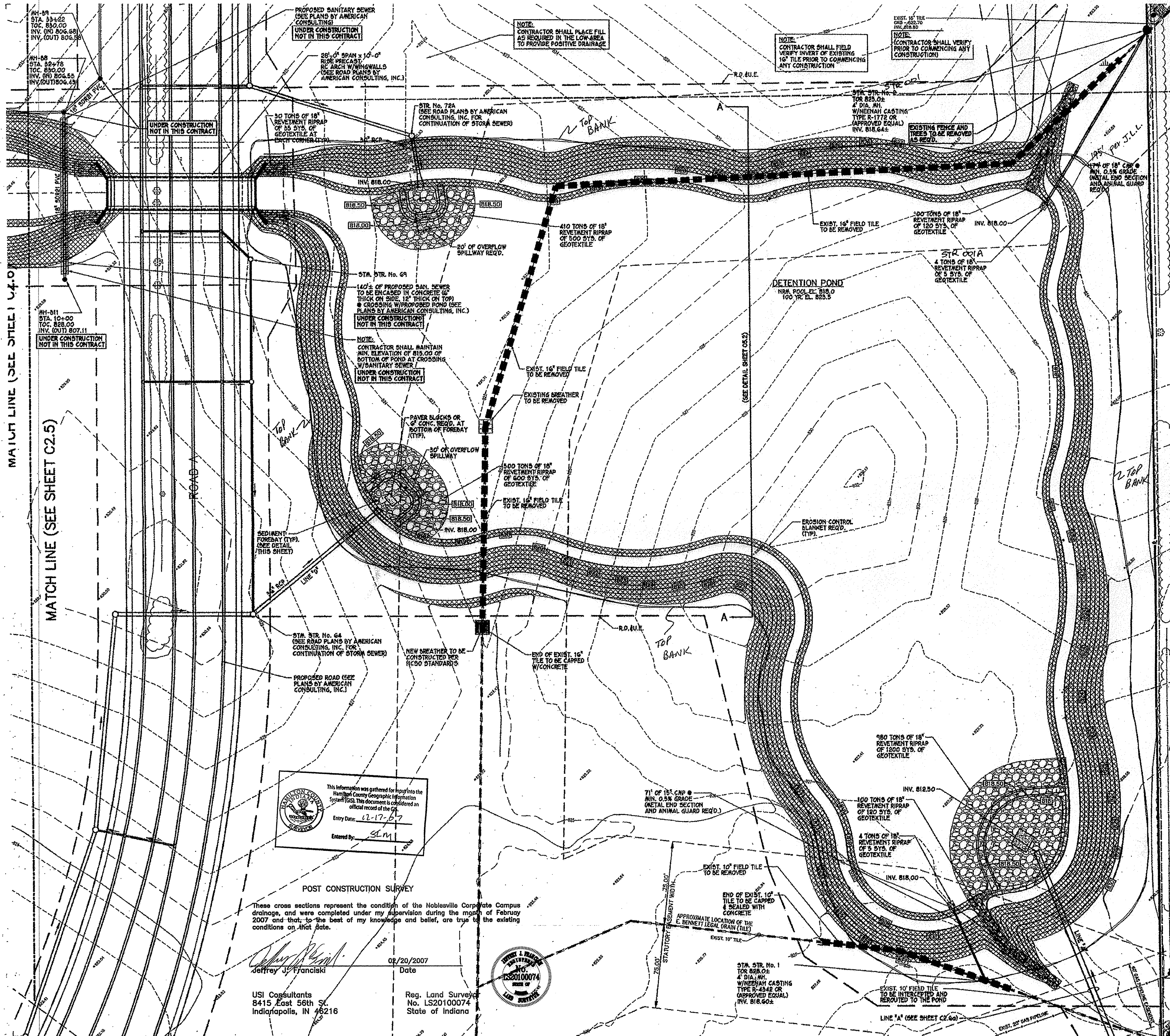
STORM SEWER
PLAN AND PROFILE

NOBLESVILLE CORPORATE CAMPUS EAST
I-69 & S.R. 298
NOBLESVILLE, INDIANA

DATE: 05/07/03
DRAWN BY: PEO
CHK'D BY: AF
JOB NO.: IN2002-0575

REVISIONS

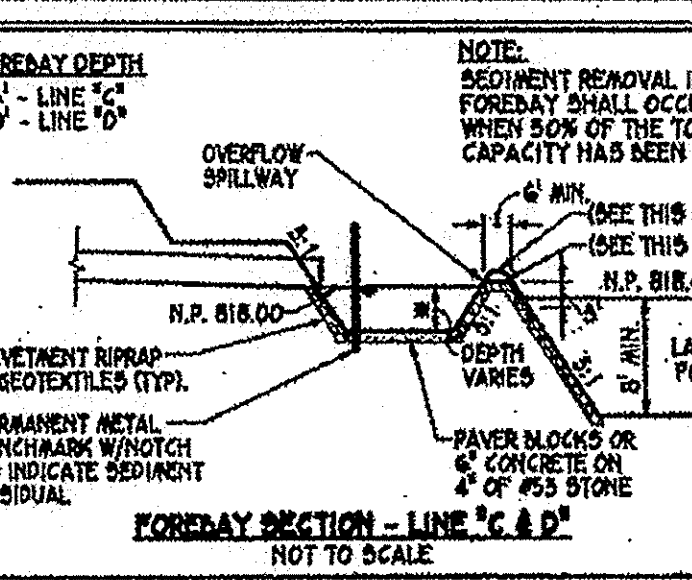
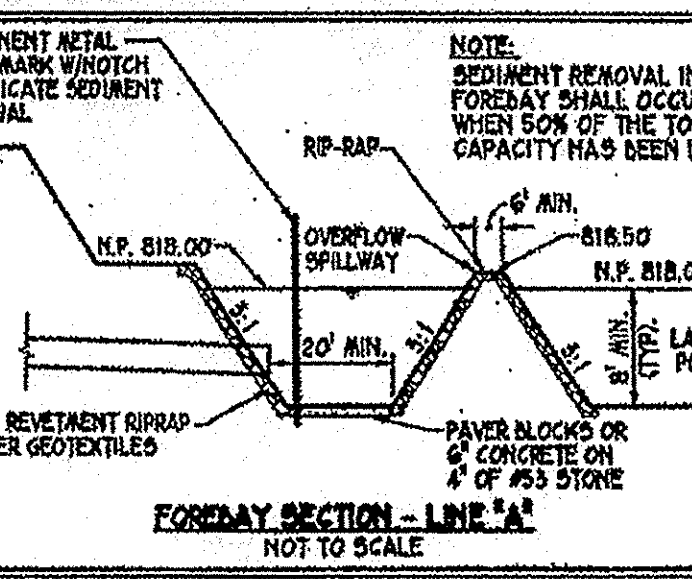
SHEET NO.
C2.6b
21 OF 200



- PROPOSED LEGEND**
- PROPOSED CONTOURS
 - PROPOSED SPOT ELEVATIONS
 - SILT FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 5150 BN OR APPROVED EQUAL)
 - HATCHED AREAS INDICATE LIMITS OF 18" REVEINMENT RIPRAP OVER GEOTEXTILES
 - R.D.B.U.E. REGULATED DRAIN AND UTILITY EASEMENT

- GENERAL GRADING NOTES**
1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
 5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
 6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
 7. AFTER STRIPPING TOPSOIL MATERIAL, PROFFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL.
 8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.
 9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
 10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
 11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF NOBLESVILLE AND HCSO STANDARDS.
 12. INVERTS AT PIPE OUTLETS ARE GIVING AT END OF PIPE END SECTION.
 13. DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
 14. DUE TO SITE CONSTRAINTS, THE SITE WILL NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.

- NOTE:**
1. FOR EROSION CONTROL DETAILS AND SPECIFICATIONS (SEE SHEET C2.5).



CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, vaults, valves, and risers made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

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ALAN FETHANOG
No. 19900549
Professional Engineer
Certified by

ENLARGED GRADING AND DRAINAGE AND EROSION CONTROL PLAN

NOBLESVILLE CORPORATE CAMPUS EAST
1-69 & S.R. 238
NOBLESVILLE, INDIANA

DATE: 05/07/03
DRAWN BY: PED
CHK'D BY: AF
JOB NO.: IN2002.0575

REVISIONS

SHEET NO. **C2.6**
19 OF 200

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the City of Noblesville.

Entry Date: 02-17-07
Entered By: SLM

POST CONSTRUCTION SURVEY

These cross sections represent the condition of the Noblesville Corporate Campus drainage, and were completed under my supervision during the month of February 2007 and that, to the best of my knowledge and belief, are true to the existing conditions on that date.

Jeffrey J. Franciski
Date: 02/20/2007

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No. LS20100074
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