

Drain: WHEELER AND WHEELER DRAIN **Drain #:** 25
Improvement/Arm: ARBOR GROVE - SECTION 4
Operator: JOH **Date:** 8-25-04
Drain Classification: Urban/Rural **Year Installed:** 2003

GIS Drain Input Checklist

- Pull Source Documents for Scanning JOH
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JOH
- Digitize & Attribute SSD JOH
- Digitize & Attribute Open Ditch N/A
- Stamp Plans JOH
- Sum drain lengths & Validate JOH
- Enter Improvements into Posse JOH
- Enter Drain Age into Posse JOH
- Sum drain length for Watershed in Posse JOH
- Check Database entries for errors JOH

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: Arbor Grove Section 4

Drain Type:	Size:	Length (Surveyor's Report)	Length (DB Query)	Length Reconcile	Price:	Cost:
SSD	6	3365.3	3365.3	0		
RCP	12	523	523	0		
RCP	15	203	203	0		
RCP	18	536	536	0		
RCP	21	147	147	0		
RCP	27	322	322	0		

Sum: **5096.3** **5096.3** _____

Final Report: 5096.3

Comments:



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

February 20, 2003

To: Hamilton County Drainage Board

Re: Wheeler & Wheeler Drain, Arbor Grove Section 4 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Arbor Grove Section 4 Arm, Wheeler & Wheeler Drain. 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 drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages, and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6" SSD	3,376 ft	15" RCP	173 ft	21" RCP	147 ft
12" RCP	523 ft	18" RCP	536 ft	27" RCP	322 ft

The total length of the drain will be 5,077 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines, which are located within the right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

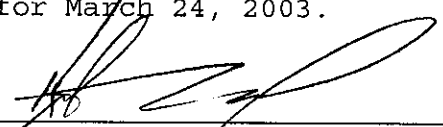
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per lot, \$10.00 per acre for roadways with common areas set at \$10.00 per acre with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$2,939.10.

Parcels assessed for this drain may be assessed for the Stoney Creek Drain at sometime in the future.

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.

I recommend that upon approval of the above-proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Arbor Grove, Section 4 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for March 24, 2003.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

BAY DEVELOPMENT CORPORATION

10415 N. College Ave.
Indianapolis, Indiana 46280
Phone: 317-844-8844

Sub-Contract Agreement

THIS AGREEMENT, made this 26 day of August, 2002, by and between Bay Development Corporation/ Bay Communities LLC. hereinafter called the Contractor, and Snider Group, P.O. Box 281, Zionsville, IN 46077, Attention: Dan Shotts, Ph# (317)773-5265, Fax # (317)873-5280, hereinafter called the Sub-contractor.

For the consideration hereinafter named, the said Sub-contractor covenants and agrees with said Contractor, as follows:

FIRST. the Sub-contractor agrees to furnish all material and perform all work necessary to complete the Earthwork, Sanitary Sewers, Storm Sewers & Watermains at Arbor Grove, Section IV, located on State Road 238 east of Cumberland Road in Noblesville Township, Hamilton County as per plans prepared by Weihe Engineers, Inc., dated 2-21-2000 and stamped approval pending, and to the full satisfaction of said Engineer.

SECOND. The Sub-contractor agrees to promptly begin said work as soon as notified by said Contractor, and to complete the work as follows:

Pricing is based on the following quantities:

1. Earthwork: Common excavation required to bring site to +/- 0.10' of proposed grades shown on plans. This price assumes an earthwork balance on-site and includes placing required quantity of clay from existing stockpile to balance Section IV	\$ 65,330.00
2. Sanitary Sewers	\$220,500.00
3. Storm Sewer/Sub-surface Drains	\$ 82,100.00
4. Water Mains	\$ 43,830.00
TOTAL	\$411,760.00

Note: Prices do not include rock excavation. If rock is encountered, the additional cost of blasting and/or excavating the rock will be negotiated.

Do not start until 10/1/02 (A/S)

THIRD. The Sub-contractor shall take out and pay for Workmen's Compensation and Public Liability Insurance, also Property Damage and all other necessary insurance, as required by the Owner, Contractor or by the State in which this work is performed. A copy of the Sub-contractor's Certificate of Insurance listing Bay Development Corporation, Bay Communities L.L.C., and Bay Communities L.P. as co-insured parties shall be supplied to the Contractor upon execution of this contract.

FOURTH. The Sub-contractor shall pay all Old Age Benefit and Unemployment Compensation Taxes upon the materials and labor furnished under this contract, as required by the United States Government and the State in which this work is performed.

FIFTH. No extra work or changes under this contract will be recognized or paid for, unless agreed to in writing before the work is done or the changes made.

SIXTH. This contract shall not be assigned by the Sub-contractor without first obtaining permission in writing from the Contractor.


SEVENTH: Contract between Sub-Contractor and Contractor is contingent upon Contractor obtaining satisfactory financing for Arbor Grove, Section IV This contingency will be released in writing within 24 hours of bank approval. Sub-Contractor agrees to commence construction within seven (7) days of notification.

IN CONSIDERATION WHEREOF, the said Contractor agrees that he will pay to the said Sub-contractor, in monthly payments for said materials and work based upon invoices of work completed to be submitted by the Sub-contractor, said amount to be paid as follows: ninety percent (90%) of all labor and material which has been placed in position by said Sub-contractor, must be submitted by the 24th of the month to be paid on or about the 10th of the following month, except the final payment, which the said Contractor shall pay to the said Sub-contractor within thirty (30) days after the Sub-contractor shall have completed his work to the full satisfaction of the said Engineer or Owner. The balance of the payment, the ten percent (10%) retainage must be invoiced upon completion.

The Contractor and the Sub-contractor for themselves, their successors, executors, administrators and assigns, hereby agree to the full performance of the covenants of this agreement

IN WITNESS WHEREOF, the have executed this agreement the day and date written above.

Snider Group
SUB-CONTRACTOR


BY: DANIEL SHOTTS - VP

Date: 8-26-02

Bay Development Corporation.
CONTRACTOR


BY: Allen I. Sklare - President

Date: 9/10/02

CERTIFICATE OF COMPLETION AND COMPLIANCE



To: Hamilton County Surveyor

Re: Arbor Grove Section 4

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. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.

Signature: Allan H. Weihe Date: August 28, 2003

Type or Print Name: Allan H. Weihe

Business Address: 10505 N. College Avenue
Indianapolis, Indiana 46280

Telephone Number: 317-846-6611

SEAL



INDIANA REGISTRATION NUMBER

8827



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

To: Hamilton County Drainage Board

April 21, 2004

Re: Wheeler & Wheeler: Arbor Grove Sec. 4 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Arbor Grove Sec. 4. 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 February 20, 2003. The report was approved by the Board at the hearing held March 24, 2000. (See Drainage Board Minutes Book 7, Pages 11-12)
 The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original Plans:	Difference:
789		802.28					
788	804.64	801.92	12	122	0.3		
788	804.64	801.92					
787	804.37	801.81	18	30	0.37		
787	804.37	801.81					
786	804.45	801.55	18	38	0.68		
786	804.45	801.55					
785	805.25	801.3	18	76	0.33		
785	805.25	801.3					
784	804.47	800.63	27	145	0.46		
784	804.47	800.63					
783	804.57	800.45	27	32	0.56		
783	804.57	800.45					
782A	804.23	800.25	27	20	1		
782A	804.23	800.25					
782	805.27	800.16	27	125	0.07		
794		804.29					
793	805.63	803.33	12	120	0.8		
793	805.63	803.33					
792	805.65	803.05	15	30	0.93		
792	805.65	803.05					

791	805.82	802.96	18	29	0.31		
791	805.82	802.96					
790	805.8	801.8	18	134	0.87		
790	805.8	801.8					
785	805.25	801.3	18	54	0.93		
805	810.58	808					
804	810.45	807.25	12	152	0.49		
804	810.45	807.25					
803	810.59	807.59	12	34	0.59		
803	810.59	807.05					
802	810.84	806.9	15	30	0.5		
802	810.84	806.9					
801	809.82	806.14	15	143	0.53		
801	809.82	806.14					
800	809.58	805.47	18	145	0.46		
800	809.58	805.47					
799	808.36	805.32	18	30	0.5		
799	808.36	805.32					
798	809.69	805.14	21	22	0.82		
798	809.69	805.14					
797	808.34	804.6	21	125	0		
782B	805.21	801.17			0.43		
782A	804.23	800.25	12	95	0.97		

6" SSD Streets:	
Tenor Way	1058.71
Timpeni	623.94
Totalx2:	<u>3365.3</u>

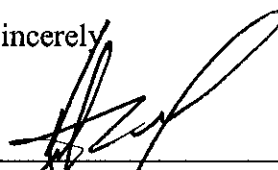
RCP Pipe Totals:	
12	523
15	203
18	536
21	147
27	322
Total:	<u>1731</u>

The length of the drain due to the changes described above is now **5096.3 feet**.

The non-enforcement was approved by the Board at its meeting on February 20, 2003 and recorded under instrument #200400015541.

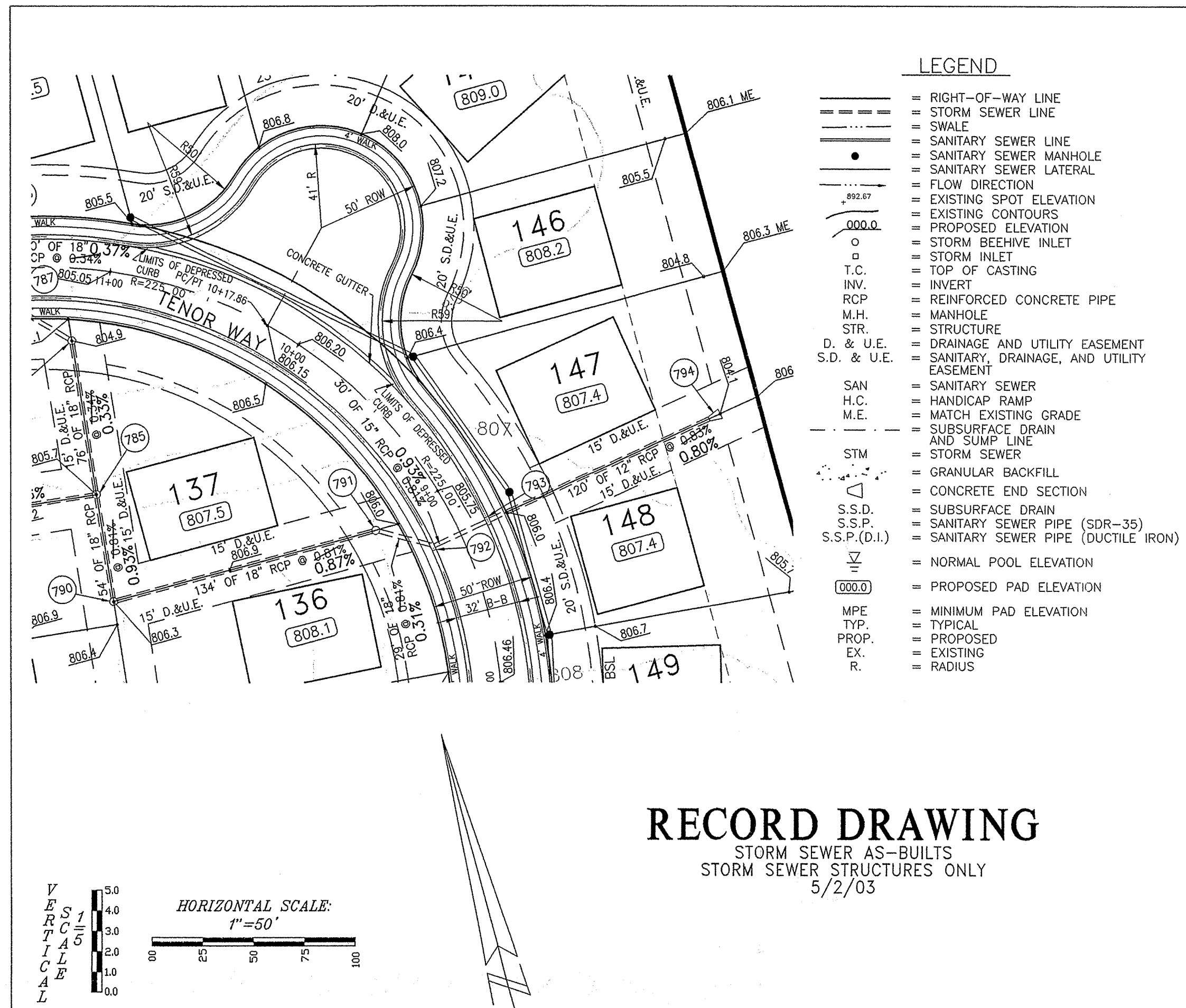
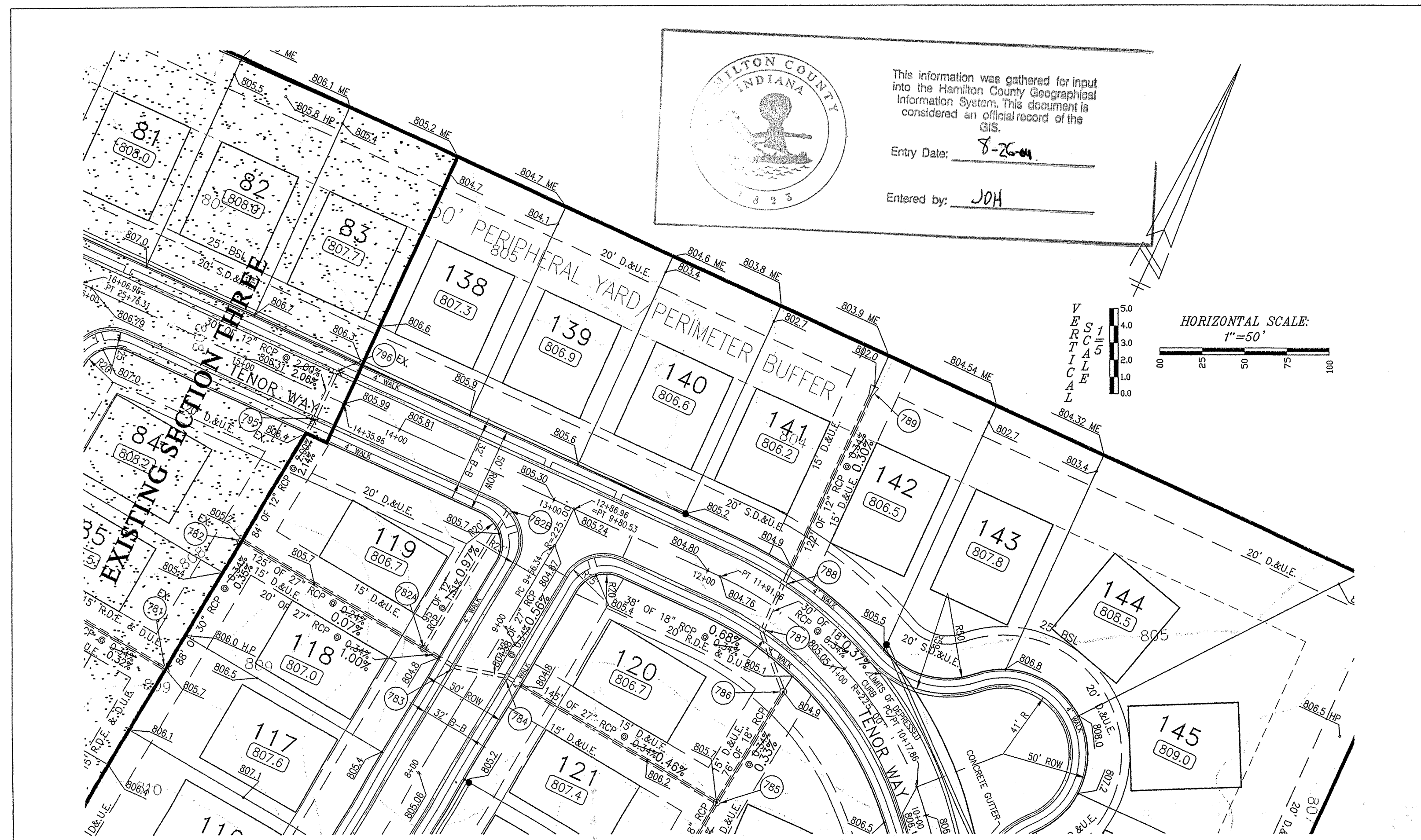
Sureties were not obtained for this project.

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

Sincerely,


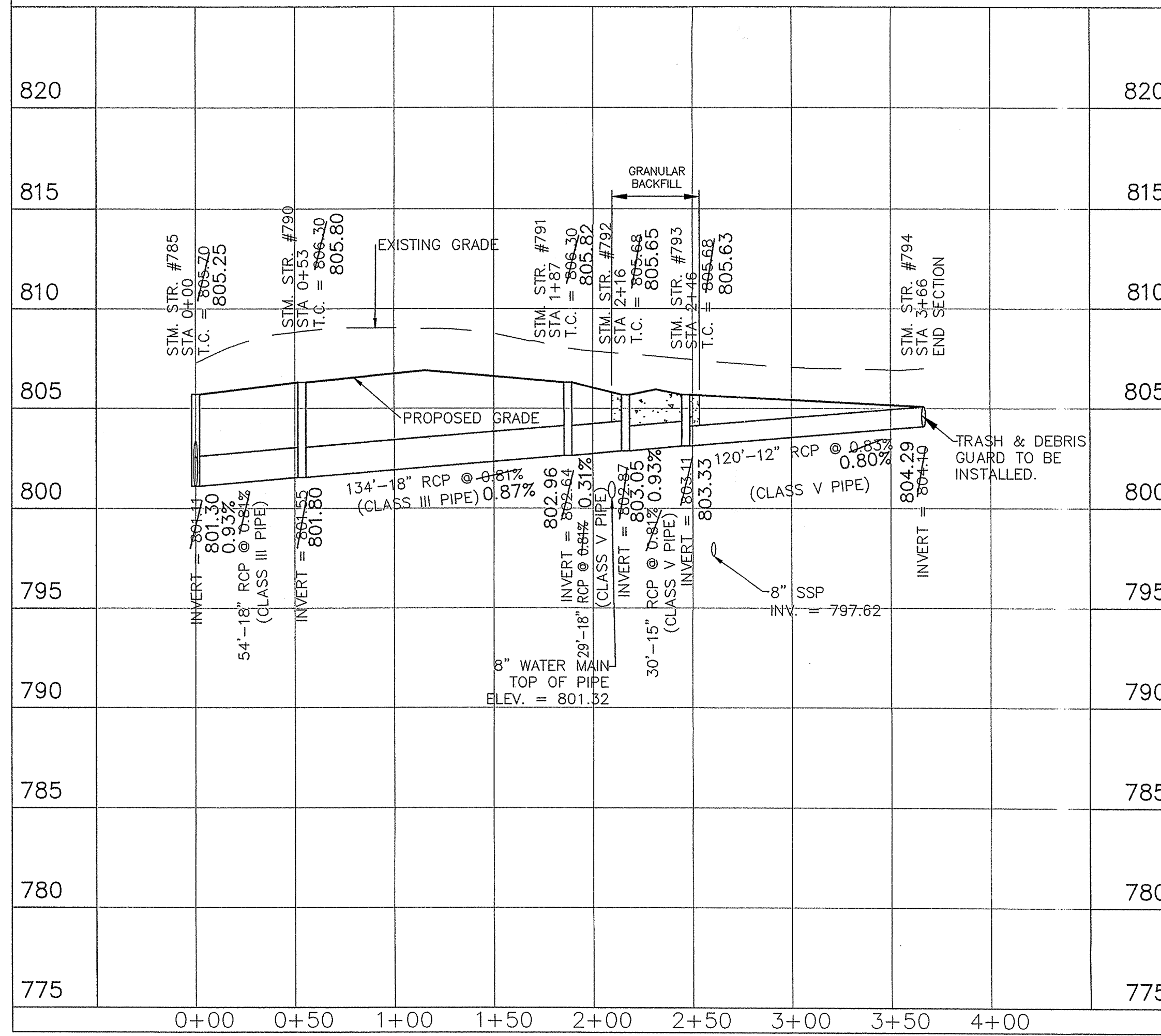
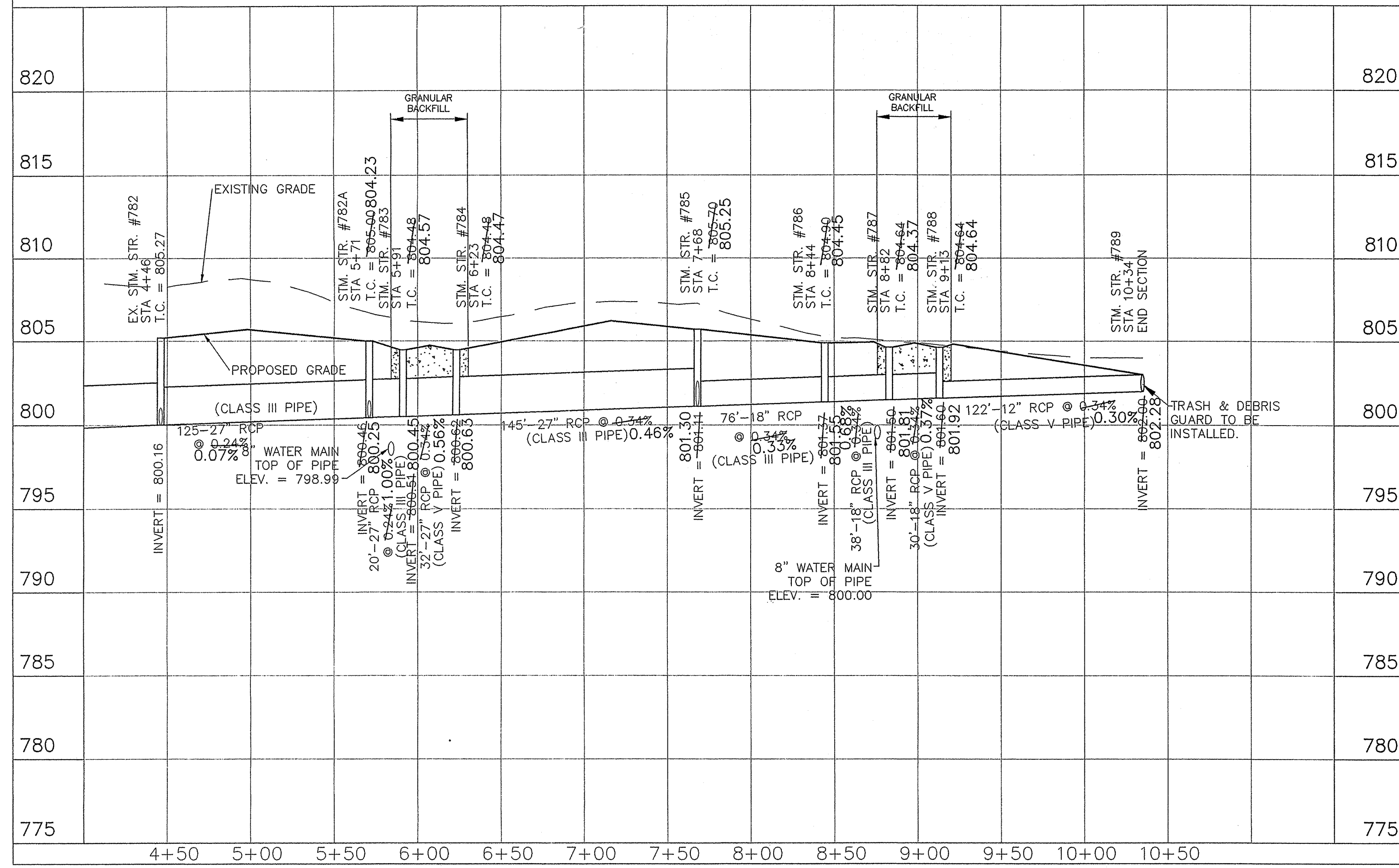
 Kenton C. Ward,
 Hamilton County Surveyor

KCW/slm



RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
5/2/03

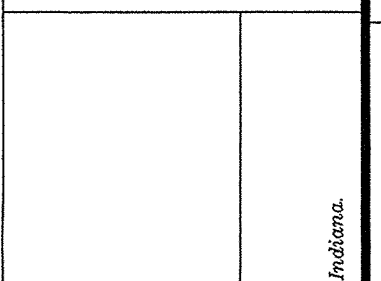
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- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - FLOW DIRECTION
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOURS
 - PROPOSED ELEVATION
 - STORM BEEHIVE INLET
 - STORM INLET
 - TOP OF CASTING
 - INVERT
 - REINFORCED CONCRETE PIPE
 - MANHOLE
 - STRUCTURE
 - DRAINAGE AND UTILITY EASEMENT
 - SANITARY, DRAINAGE, AND UTILITY EASEMENT
 - SANITARY SEWER
 - HANDICAP RAMP
 - MATCH EXISTING GRADE
 - SUBSURFACE DRAIN AND SUMP LINE
 - STORM SEWER
 - GRANULAR BACKFILL
 - CONCRETE END SECTION
 - SUBSURFACE DRAIN
 - SANITARY SEWER PIPE (SDR-35)
 - SANITARY SEWER PIPE (DUCTILE IRON)
 - NORMAL PAD ELEVATION
 - PROPOSED PAD ELEVATION
 - MINIMUM PAD ELEVATION
 - TYPICAL
 - PROPOSED
 - EXISTING
 - RADIUS



WEIHE ENGINEERS, INC.
1005 NORTH COLLEGE AVENUE
CITY 846-6011 FAX (317) 846-0646
TOLL-FREE (800) 452-6408

PROJECT NO.	5903333333
TITLE	STORM SEWER AS-BUILTS
DATE	5/15/02
BY	EAC
DATE	5/2/03
BY	EAC
DATE	5/2/03
BY	EAC
DATE	5/2/03
BY	EAC
DATE	5/2/03

REVISED PER T.A.C. REVIEW
SANITARY & STORM SEWER AS-BUILTS



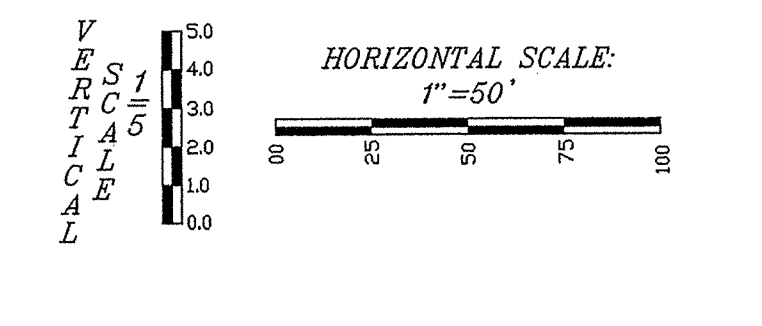
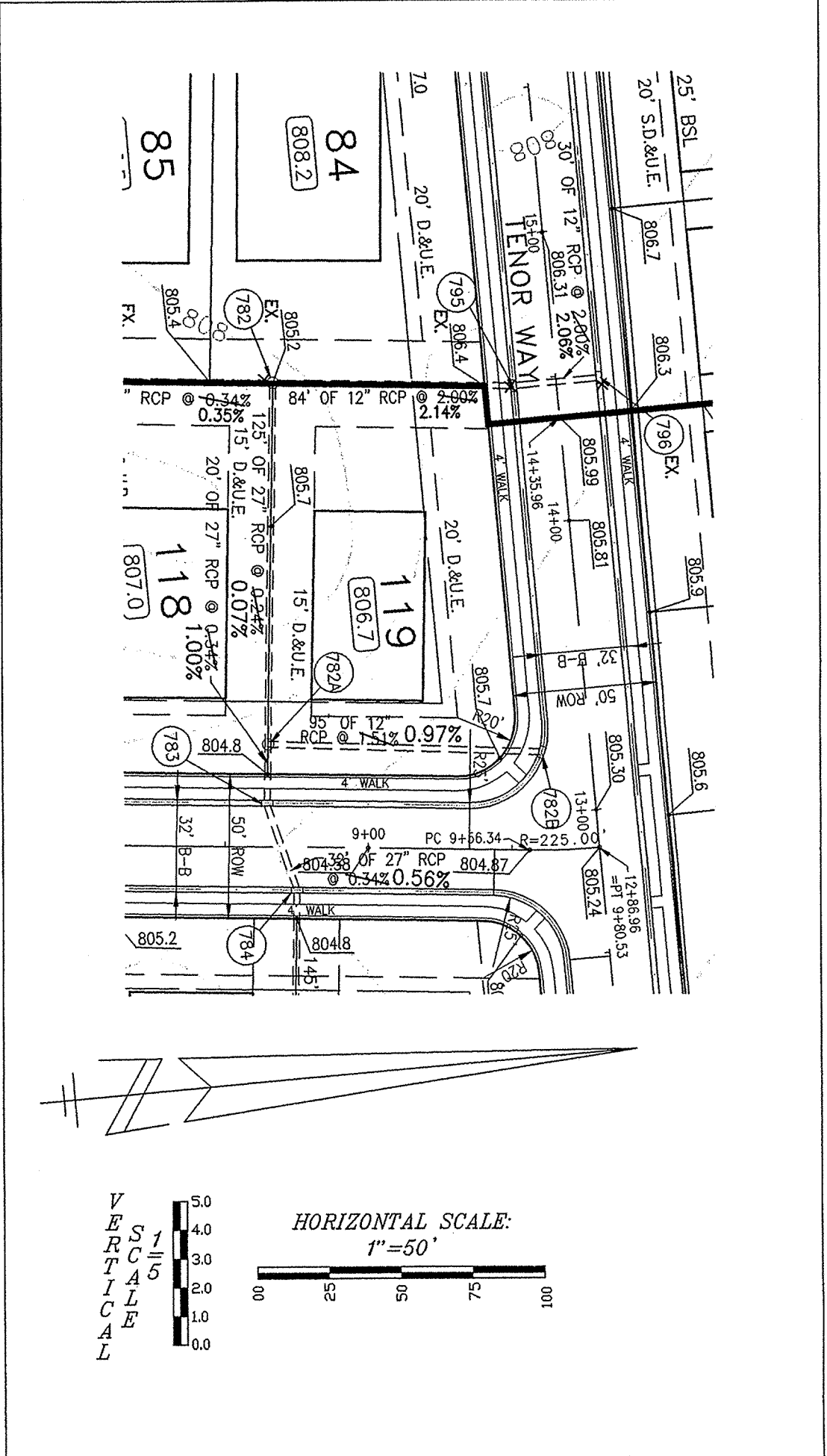
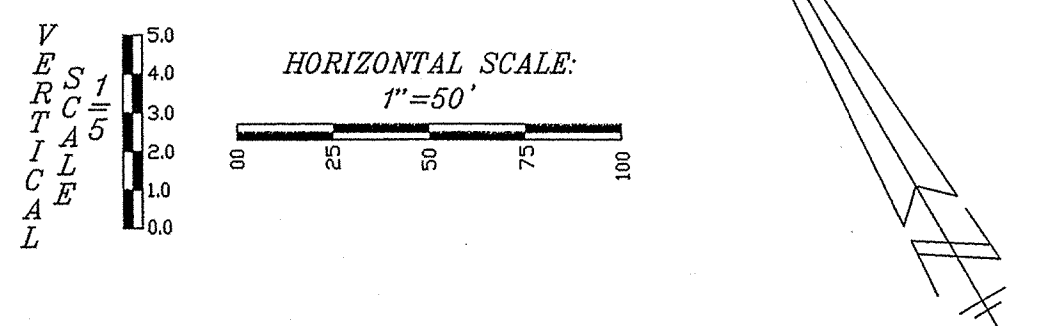
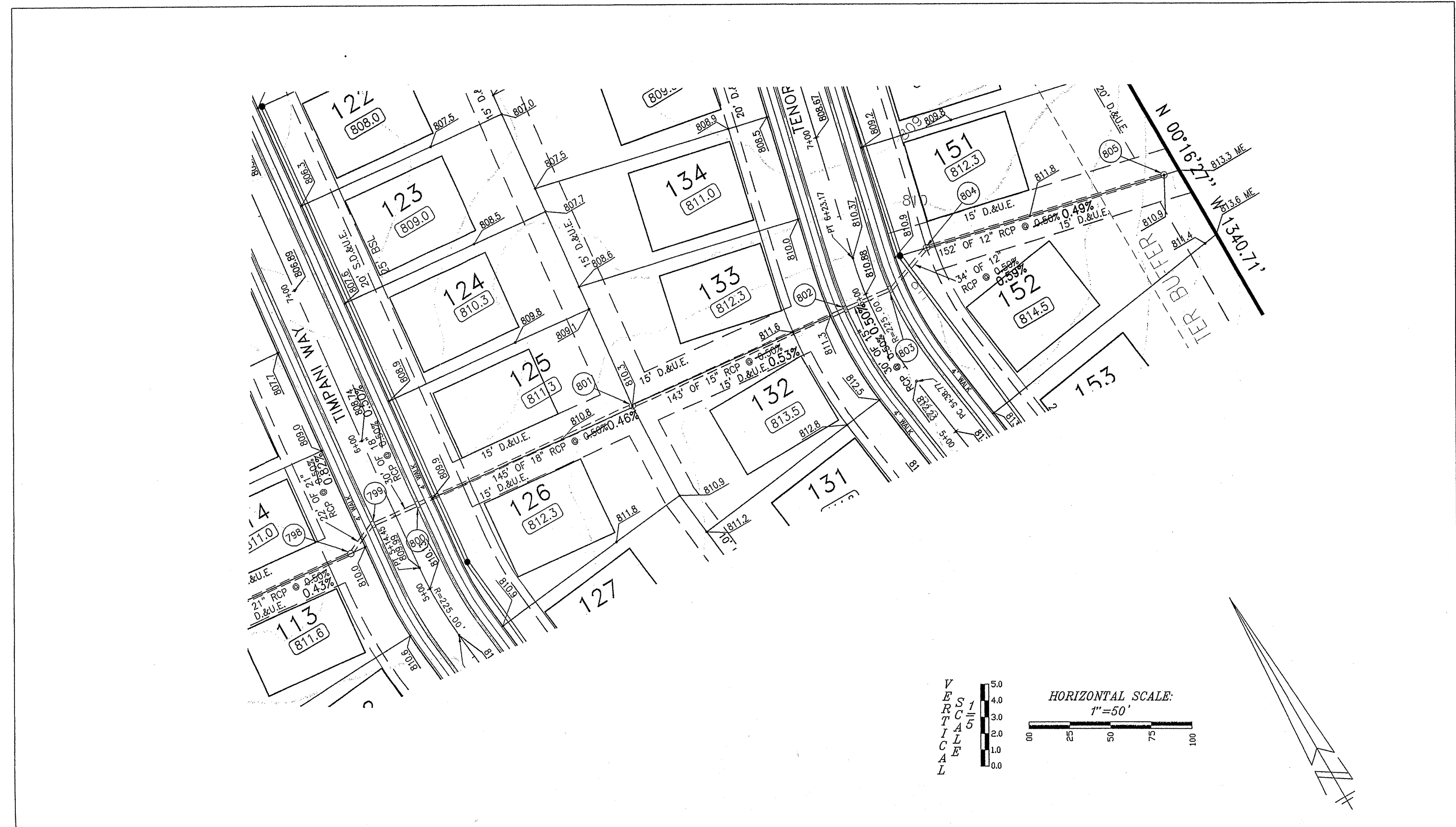
PREPARED FOR:
ARBOR GROVE SECTION FOUR
BAY DEVELOPMENT CORP.

SHEET NO. **6**

PROJECT NO. **99-0386**

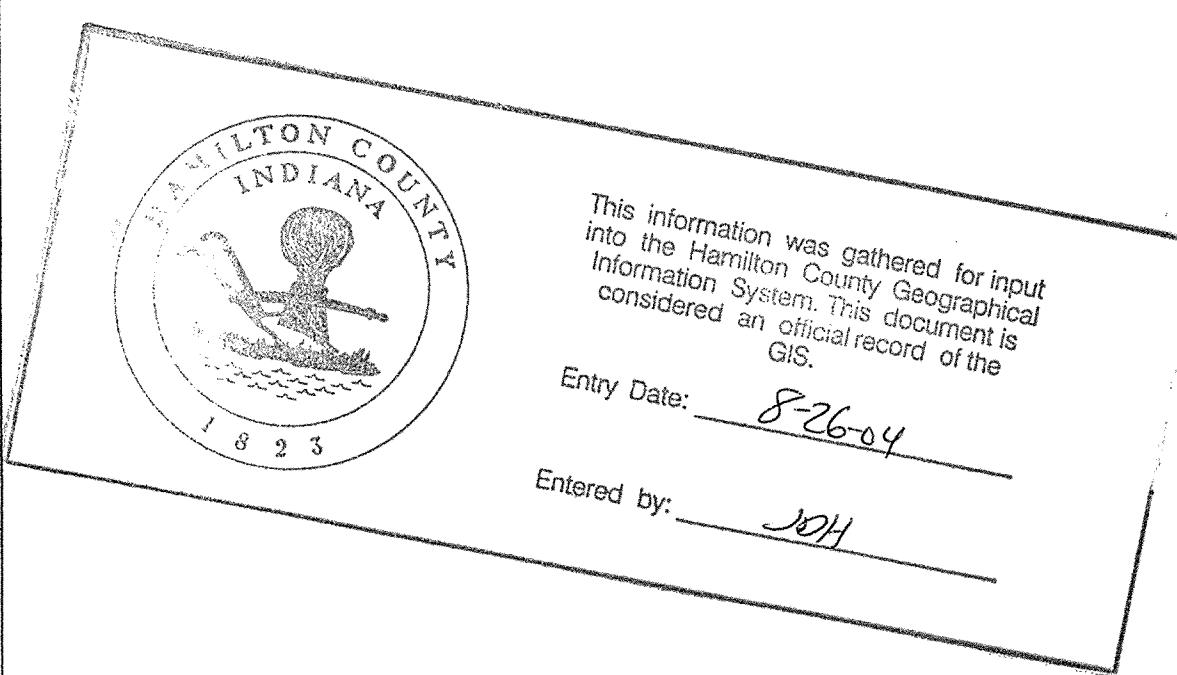
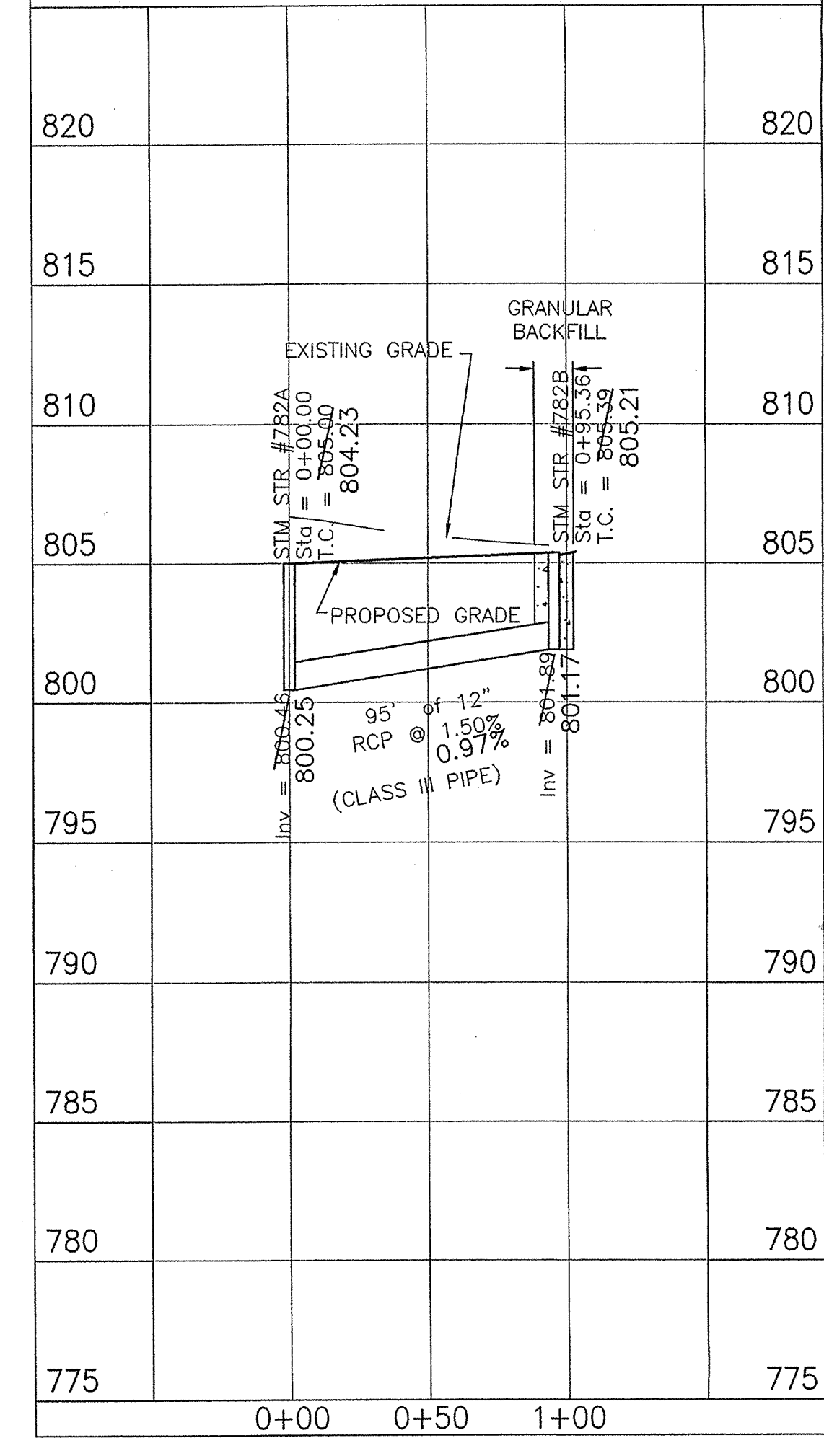
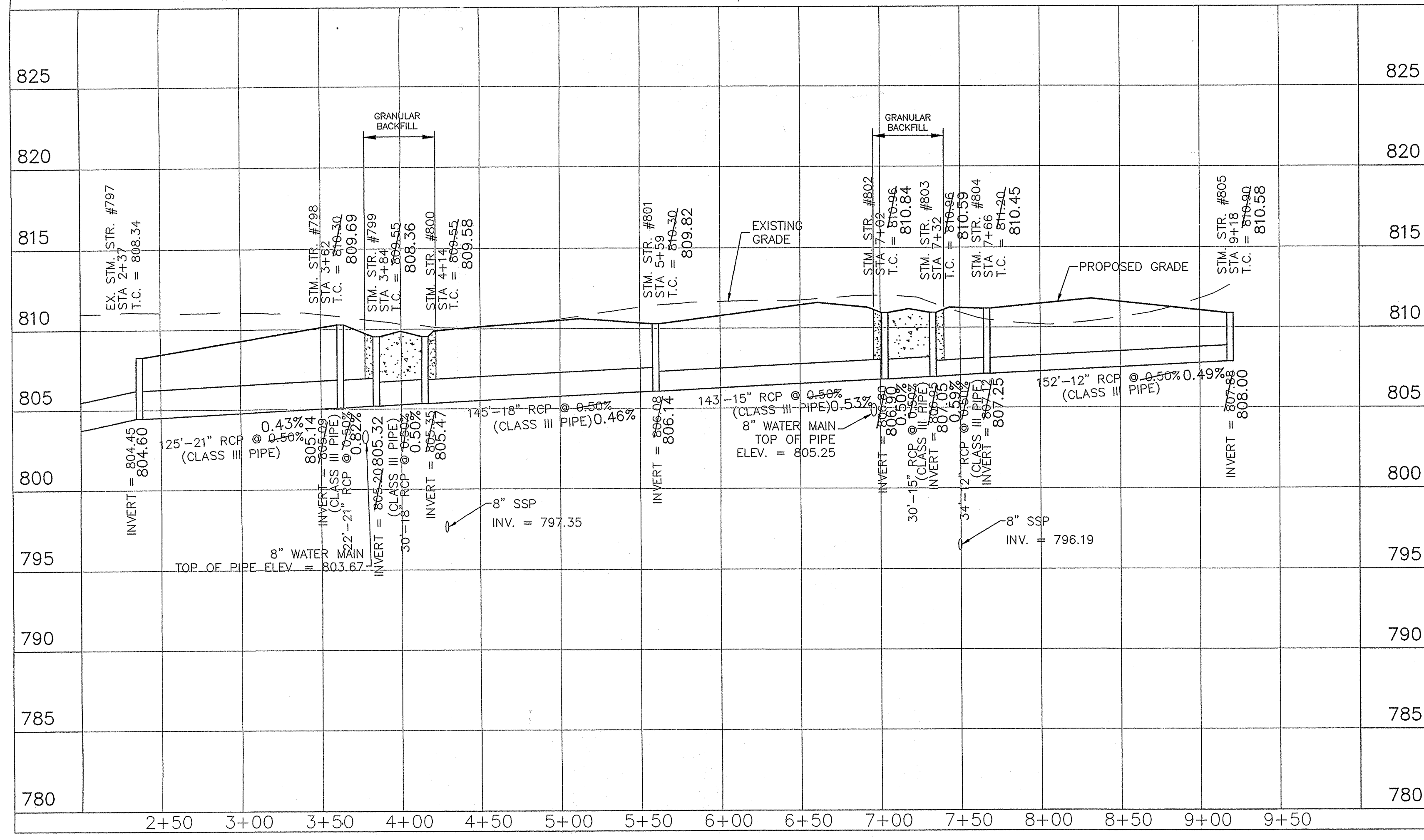
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LOCATION: C:\PROJECTS\ARBOR GROVE\SECTION 4\ARBOR03821.dwg
 DATE/TIME: May 05, 2003 - 8:23am



- LEGEND**
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - FLOW DIRECTION
 - EXISTING SPOT ELEVATION
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 - STORM INLET
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 - T.C. TOP OF CASTING
 - INV. INVERT
 - RCP REINFORCED CONCRETE PIPE
 - M.H. MANHOLE
 - STR. STRUCTURE
 - D. & U.E. DRAINAGE AND UTILITY EASEMENT
 - S.D. & U.E. SANITARY, DRAINAGE, AND UTILITY EASEMENT
 - SAN. SANITARY SEWER
 - H.C. HANDICAP RAMP
 - M.E. MATCH EXISTING GRADE
 - S.S.P. SUBSURFACE DRAIN AND SUMP LINE
 - STM STORM SEWER
 - GRANULAR BACKFILL
 - CONCRETE END SECTION
 - S.S.D. SUBSURFACE DRAIN
 - S.S.P. SANITARY SEWER PIPE (SDR-35)
 - S.S.P.(D.I.) SANITARY SEWER PIPE (DUCTILE IRON)
 - NORMAL POOL ELEVATION
 - PROPOSED PAD ELEVATION
 - MPE MINIMUM PAD ELEVATION
 - TYP. TYPICAL
 - PROP. PROPOSED
 - EX. EXISTING
 - R. RADIUS
 - SECTION TWO & THREE

RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 5/2/03



WEIHE ENGINEERS, INC.
 1066 NORTH COLLEGE AVENUE
 INDIANAPOLIS, INDIANA 46280
 (317) 846-6611 FAX: (317) 843-0546
 TOLL-FREE (800) 452-6468

ALLAN H. WEIHE
 REGISTERED LAND SURVEYOR
 REGISTERED LAND SURVEYOR
 PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

PROJECT NO.: 99-0386
 DATE: 5/15/02
 BY: EAC
 CHECKED BY: JCH
 DATE: 2/12/02

REVISIONS AND ISSUES
 REVISION PER T.A.C. REVIEW
 SANITARY & STORM SEWER AS-BUILTS

ALLAN H. WEIHE
 REGISTERED
 NO. 8827
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

PREPARED FOR:
ARBOR GROVE SECTION FOUR
 BAY DEVELOPMENT CORP.

SHEET NO. **7**

PROJECT NO. 99-0386