



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

May 4, 1990

To: Hamilton County Drainage Board

Re: George White & James Bradburn Drains

Attached are calculations, plans, drainage shed map, schedule of assessments and miscellaneous supporting material for the reconstruction of the George White and James Bradburn Drains. This report is being submitted to the Board for consideration as a result of a petition filed by the Fishers Town Board on April 11, 1986 which is attached.

At this time a severe drainage problem exists within the old downtown area of Fishers. (See attached newspaper articles.) The worst flooding takes place in an area bounded by 116th Street on the north, South Street on the south, the railroad on the west, and Lantern Road to the east. Other areas within the drainage area experience periodic flooding such as along South Street east of Lantern Road. However, for the purpose of this project, the area of most severe flooding is to be addressed.

On February 27, 1989 the Hamilton County Drainage Board appointed Weihe Engineers, Inc. to study the problem and develop a plan to alleviate the problem. Two plans were developed for this situation. The first plan is a tile replacing the existing George White tile in approximately its existing location. To meet the requirements for a Q5, Q10 and Q25, the requirements range from 42", 48" and 54"; 48" and 54"; and 48", 54" and 60" respectively. By using the available capacity of the existing 20" tile and placing a parallel tile beside it, the sizes ranged from 42" and

48"; 42", 48" and 54"; and 48", 54" and 60" respectively for the same above mentioned storm events. The hydraulic report by Weihe Engineers, Inc. dated October 2, 1989 is attached along with a plan sheet and plan and profile sheets. The cost of the system would vary depending on the size storm to be used for design. The Q10 was used because of its economics and being a standard practice for sizing storm sewers. This storm event utilizing the existing 20" was estimated for cost. The cost estimate for this minus engineering and eliminating the 54" and substituting an open ditch in its place was \$356,180.00. This was a rough estimate by a contractor familiar with such work and was obtained for discussion purposes only.

The second plan was for an open ditch with storm sewer located only within the area between the Morgan property and Archers. A plan for this to replace the existing tile was rejected because of its close proximity to the Morgan Meadows subdivision as being too great of a liability risk. It was decided to then place the open ditch in approximately the location of the existing James Bradburn tile which is located along the Railroad and through the western portion of the Morgan property. This decision was made because of the existing easement for the Bradburn; it is in farm ground; when developed it can be easily relocated or enclosed by the developer to meet his needs; and it was well away from an existing residential neighborhood. The cost estimate for this plan was \$224,286.00. This estimate also is minus engineering and was a rough estimate from the same contractor obtained for discussion purposes only. Both estimates are attached.

Both plans were presented to homeowners and business people within the affected area. Two meetings were held at the Fishers Public Safety Building. The first was held on November 21, 1989 at which time a cost estimate and some hydraulic data was un-available. (See sign in sheet attached.) The second meeting was held on March 29, 1990 at which time the above cost estimates were given along with the data which was

un-available during the first meeting. At the meetings, information was exchanged and input from the citizens proved useful. At each meeting I felt those attending felt the project necessary although they did not always agree on funding alternatives. I also believe the Town of Fishers is interested in the alleviation of the problem as is evident by a letter dated November 27, 1990 from Roy Holland to Allen Weihe urging him to complete the plans as soon as possible. (See attached.)

Though the above meetings with the citizens, discussions with Stan Neal and Jim O'Bara of Weihe Engineers, discussions with various Town officials and employees, Drainage Board members and John Ward, Drainage Board Contractor, I have prepared the following proposal.

The following proposal is in two parts. The first portion of the proposal deals with a new open ditch located along the western portion of the Robert E. & Francis Morgan property. The second portion deals with the reconstruction of the existing 20" tile located along the east line of the above mentioned property.

The proposed drain improvement will begin at the existing manhole located at the southeast corner of the Archers Grocery (Lot 2, Kimberlains Addition also known as parcel 14-01-02-01-007.000). The line will run east 165' down the alley to MH1 as shown on plans dated 11-28-89. This manhole is located at the northeast corner of lot 17, Kimberlains Addition, parcel 14-01-02-01-023.000. The line will then run south 175' along the west right-of-way line to the southeast corner of the same lot to MH2. The tiles will then run east 250' along the north right-of-way of South Street to MH3 located at the northeast intersection of South Street and the railroad. Thence south 380' to MH4 at the southeast corner of parcel 14-01-02-02-001.000; thence east 160' to MH5; thence southwest parallel with the railroad 22' to the outlet of the storm sewer. This entire line will consist of 48" RCP.

The open ditch will begin at the above referenced location at station 11+50 and follow the approximate location of the James Bradburn Drain as constructed in 1887. The open ditch will be constructed with a 4' bottom width and 2:1 side slopes and empty into the R.J. Craig drain at Sta. 36+70. The open drain will be 2520 feet in length and the storm sewer 1150 feet in length for a total length of 3670 feet.

The cost estimate for this portion of the project is as follows:

48" RCP	1150 Feet @ 104.00	119,600.00
Open Ditch	2520 Feet @ 18.00	45,360.00
Rebuild Existing MH	1 Each @ 5,000.00	5,000.00
Clearing	1.5 Ac @ 10,000	15,000.00
Seeding	10 Ac @ 1,000.00	10,000.00
60" Metal End Sections	1 Each @ 1,200.00	1,200.00
Pavement replacement	625 LF @ 40.00/ft	25,000.00
Riprap	250 Ton @ 20.00	5,000.00
Granular Backfill	1000 CY @ 12.00	12,000.00
54" Crossing	1 Each @ 6000.00	6,000.00
96" Manholes	5 Each @ 4500.00	22,500.00
		<hr/>
		\$266,660.00
	10% Contingency	<hr/>
		26,666.00
	Subtotal	<hr/>
		\$293,326.00
	Engineering	13,500.00
	Staking	<hr/>
		6,000.00
		<hr/>
		\$312,826.00

The proposed drain will replace the existing Bradburn Drain from Sta. 11+00 to Sta. 54+00. The tile will be intercepted at Sta. 11+00 in MH3. The only remaining portion of the Bradburn Drain as originally constructed shall be from MH3 (Sta. 11+00 of original drain) to the manhole at Sta. 3+75 on plans prepared by Weihe Engineers dated 12-16-81, revised 6-20-87 (See attached) which is approximately Sta. 6+00 of the 1887 construction. The existing manhole shown is the same as the above referenced manhole on the Weihe plan revised 6-20-87. The 20" tile will be abandoned from that point to where the tile will intercept the new storm sewer at MH1. At MH1, the 20" and 48" tiles will exit the structure.

The second part of the project is the repair, replacement and rehabilitation of the existing George White as constructed in 1916 as recorded in Ditch Record Book 4,

page 87, and other improvements since as shown in the drain file. The tile is to be connected relocated beginning at the northwest corner of lot 23 of Morgan Meadows Second Section and run south parallel to the subdivision west line (10 feet west of said line) to the open ditch. This is being done as a result of a meeting held in the field on April 24, 1990 with Steve Dillinger, Drainage Board Chairman; John Ward, Drainage Board Contractor; Mike Howard, Attorney for the Commissioners; and myself. The purpose of this relocation is to remove the drain from the existing lots where the homes on lots 20 & 21 are within the easement, keep away from storage buildings and fences and to distance the tile from existing trees. The tile north of this point is either within the farm field or at the property line.

The drain shall consist of 21" RCP from the point of intersection to a point 30 feet south of the south line of Morgan Meadows Second Section. From this point to the R.J. Craig Drain the drain will be open ditch. The existing tile will be abandoned and portions replaced with open ditch from the northwest corner of lot 23, Morgan Meadows Section Two to the R.J. Craig open ditch.

The cost estimate for this work is as follows:

Open Ditch	470' @ 18.00/ft	8,460.00
21" RCP	1050 @ 55.00/ft	57,750.00
24" CMP	20' @ 26.00/ft	520.00
24" Animal Guard	1 Each @ 125.00	125.00
48" Manholes w/castings	4 Each @ 2000.00	8,000.00
Clearing	1 Ac @ 10,000/Ac	10,000.00
Seeding	3.5 Ac @ 1000/Ac	3,500.00
28" Metal End Section	1 Each @ 180.00	180.00
	Sub Total	88,535.00
	10% Cont.	8,854.00
	Total	97,389.00

In addition to the above, I recommend the arms and main ditch north of South Street be jetted and cleaned, structures repaired and the tile on Arm 2 be connected to the structure at Sta. 0 of the 48" RCP instead of "T"ed into the 20' as it is now north of this structure.

The cost estimate for this work is as follows:

Sewer Jet	5,000.00
Structure Repair	5,000.00
Tile Work	<u>5,000.00</u>
	15,000.00

The remaining portion of the 20" tile will be maintained as part of the total periodic maintenance program.

The total cost of the project is as follows.

New 48" and open ditch	312,826.00
Relocation of Existing 20" tile	97,389.00
Work on 20" in old down town	<u>15,000.00</u>
Grand Total	425,215.00

The drainage shed map is attached. I believe it to be representative of the area benefitted by the proposed improvements. An area omitted is the property which Burberry Place will be developing. This acreage will run to the east as shown on the attached copy of the primary plat. According to Doug Miller, engineer for Mr. Murphy, the open ditch is of sufficient elevation to benefit the Murphy property when developed. This will be connected through Arm 1.

The drainage shed consists of 126 lots and 163.42 acres. The acreage figure does not include the lot count. Of this amount, the commercial properties consist of 35.84 acres and 33 lots. Comparing C-values of 1/2 acre residential versus commercial, the values are 0.5 for residential and 0.9 for commercial. Because of the greater C-value for commercial ground, a decision was made to assess the commercial properties a factor of 1.8 more than residential. Commercial properties were determined by using the Fishers Zoning as a guide. (See attached.) Those areas zoned I-1, I-2, C-1, C-2, C-3, and C-4 on the zoning map were assessed as commercial. The reconstruction assessments were set at \$1148.00 per acre & minimum for residential and \$2067.00 per acre & minimum for commercial. Roads, streets and alleys were assessed at residential

rates since the indicated acreages have been shown triple of actual acreage. The railroad was also assessed at the residential rate.

Although this project is being proposed, I must point out at this time the old down town area will still be prone to flood. The system which is proposed is, as I have pointed out previously, designed to handle a 10 year storm event under existing conditions. Per the letter from James Wm. O'Bara of Weihe Engineers dated March 7, 1990, the hydraulic Grade Line (HGL) will remain within the system for a 10 year storm and result in an elevation of 813.76. Mr. O'Bara has indicated on the attached sheet the areas of flooding during the 25, 50 and 100 year storm events. I want to stress the importance of this fact to both the Board and the landowners.

I recommend that if the project is approved, the landowners within these areas which will be prone to flooding obtain flood insurance. On November 6, 1989 a meeting was held with Debbie Smith, Assistant Flood Insurance Co-ordinator; Michael E. Massonne, Hydraulic Engineer, Streams Permits, both of the Division of Water, Indiana Department of Natural Resources (IDNR); Roger Johnson, Development Director, Town of Fishers; and myself. At that time Ms. Smith indicated that the landowners within the flood prone area are eligible for flood insurance as being in a Zone C per the FEMA Flood Studies. This dispels a rumor in the area that the area was not eligible for flood insurance.

Problems with possible pollutants into the system occurs intermittently. This problem has been turned over to the County Board of Health. However, at this time the problem has not been found. The Town of Fishers and the Health Department are waiting for the right conditions in order to conduct a smoke test. Refer to the attached letter from Barry McNulty dated May 3, 1990.

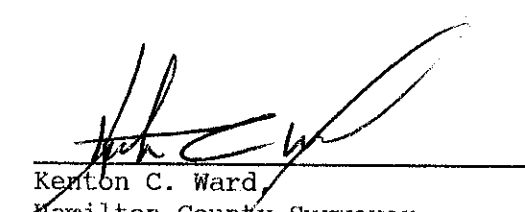
Another rumor which has circulated is that a 36" storm sewer runs down Lantern Road and empties into the 21" regulated drain. To the best of my knowledge and field

observations by my office, this is false. A 15" storm sewer was found running down Lantern Road. I believe the 36" RCP pipe seen along Lantern Road was actually the pipe to be used for the underground storm water retention for Village Pantry. The drainage plan for this site was approved based on the retention. A 6" PVC outlets the retention into the storm sewer at Lantern Road.

An allegation from local residents that the drain in town was not maintained was presented at one of the meetings. I have a map showing the location and work order number for each work order on file attached to this report. Work orders for all drains were kept after 1977. Locations of work done on the drain prior to that time is unknown. This shows that a total of \$14,716.31 has been spent within town, \$3,169.80 spent on the open ditch and \$4,236.74 has been on the tile east of I-69. The work orders are also attached.

Questions as to what has been spent has also been asked. This office has record of monies spent after January 1976. For funds expended from May 4, 1971 when the drain maintenance fund was established to January 1976, the records are located in the Auditors Office. A copy of our records are attached.

I recommend to the Board that a hearing for reconstruction should be set for June 1990.



Kenton C. Ward
Hamilton County Surveyor

KCW/jh

Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE, MD. 21203

Performance Bond

KNOW ALL MEN BY THESE PRESENTS:

That Poindexter Excavating, Inc.
(Here insert the name and address or legal title of the Contractor)
10443 E. 56th St., Indianapolis, IN 46236
as Principal, hereinafter called Contractor, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, with its home office in the City of Baltimore, Maryland, U. S. A., as Surety, hereinafter called Surety, are held and firmly bound unto Hamilton County Drainage Board

(Here insert the name and address or legal title of the Owner)
as Obligee, hereinafter called Owner,
in the amount of Two Hundred Forty Two Thousand Seven Hundred Forty Nine & 08/100

Dollars (\$ 242,749.08), for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated July 10, 1991,
entered into a contract with Owner for Excavation & Mucking of Ditches, Storm Sewer, Ditch Grading & Mulch Seeding, R. J. Craig Drainage Area Drain

in accordance with drawings and specifications prepared by Owner

(Here insert full name, title and address)
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract, including one year maintenance from date of acceptance award.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

- (1) Complete the Contract in accordance with its terms and conditions, or
- (2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of Owner.

Signed and sealed this 10th day of July A.D. 1991

In the presence of:

Betty Jean Atkinson
Betty Jean Atkinson

{
POINDEXTER EXCAVATING, INC. (SEAL)
Principal
BY: Billy Poindexter
Billy Poindexter *Title* President
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

Clara Lu Day
Clara Lu Day

By: Jan L. Jacobs (SEAL)
Jan L. Jacobs - Attorney-in-Fact

Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE, MD. 21203

Labor and Material Payment Bond

Note: This bond is issued simultaneously with Performance Bond in favor of the owner conditioned on the full and faithful performance of the contract.

KNOW ALL MEN BY THESE PRESENTS:

That Poindexter Excavating, Inc.
(Here insert the name and address or legal title of the Contractor)
10443 E. 56th St., Indianapolis, IN 46236
as Principal, hereinafter called Principal, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, with its home office in the City of Baltimore, Maryland, U. S. A., as Surety, hereinafter called Surety, are held and firmly bound unto Hamilton County Drainage Board

(Here insert the name and address or legal title of the Owner)
as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of Two Hundred Forty Two Thousand Seven Hundred Forty Nine & 08/100

(Here insert a sum equal to at least one-half of the contract price)
Dollars (\$ 242,749.08), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated July 10, 1991, entered into a contract with Owner for Excavation & Mucking of Ditches, Storm Sewer, Ditch Grading & Mulch Seeding, R. J. Craig Drainage Area Drain

in accordance with drawings and specifications prepared by Owner

(Here insert full name, title and address)
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Principal or with a sub-contractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.
2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
3. No suit or action shall be commenced hereunder by any claimant:
 - (a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: The Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.
 - (b) After the expiration of one (1) year following the date on which Principal ceased work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
 - (c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.
4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 10th day of July A.D. 1991

In the presence of:

Betty Jean Atkinson
Betty Jean Atkinson

Clara Lu Day
Clara Lu Day

POINDEXTER EXCAVATING, INC. (SEAL)
Principal
BY: Billy Poindexter
Billy Poindexter *Title* President
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By Jan L. Jacobs (SEAL)
Jan L. Jacobs - Attorney-in-Fact

C309e4-
Approved by The American Institute of Architects, A.I.A. Document
No. A-311 February 1970 Edition.

Power of Attorney
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

HOME OFFICE, BALTIMORE, MD

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, by C. M. PECOT, JR., Vice-President, and C. W. ROBBINS, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Company, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, does hereby nominate, constitute and appoint Jan L. Jacobs, William E. Frick, Jr., Steven E. Wolf, Anthony E. Ortman, Delores Koch, Clara Lu Day, Andrew M. Pathway and Eric A. Schieferstein, all of Indianapolis, Indiana, EACH, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, and as its act and deed: any and all bonds and undertakings.....

And the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Md., in their own proper persons. This power of attorney revokes those issued on behalf of Jan L. Jacobs et al, dated, June 8, 1987 and on behalf of Eric A. Schieferstein, dated, December 1989.

The said Assistant Secretary does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article VI, Section 2, of the By-Laws of said Company, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seal of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 31st day of January, A.D. 1991



FIDELITY AND DEPOSIT COMPANY OF MARYLAND

ATTEST:

C. W. Robbins
Assistant Secretary

By *[Signature]*
Vice-President

STATE OF MARYLAND
CITY OF BALTIMORE } ss:

On this 31st day of January, A.D. 1991, before the subscriber, a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and qualified, came the above-named Vice-President and Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and saith, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and that the said Corporate Seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the City of Baltimore, the day and year first above written.



CAROL J. FADER

[Signature]
Notary Public Commission Expires August 1, 1992

CERTIFICATE

I, the undersigned, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the Vice-President who executed the said Power of Attorney was one of the additional Vice-Presidents specially authorized by the Board of Directors to appoint any Attorney-in-Fact as provided in Article VI, Section 2, of the By-Laws of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 16th day of July, 1969.

RESOLVED: "That the facsimile or mechanically reproduced signature of any Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed."

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said Company, this 10th day of July, 1991

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[Signature]
Assistant Secretary

Nov 24, 1997

DR BOOK 4 PAGE 482

The Surveyor informed the Board that the Town of Fishers had requested relocation of both Castetter and Randall Drain and the R.J. Craig Drainage Area-White Arm because of the expansion of 116th Street within the Right-of-Way. The plans had been reviewed and it meets with his approval.

Reconstruction Hearing
R.J. Criag and Castetter
Randall Drains

Mr. Holt made the motion to approve the reconstruction of the Castetter-Randall Drain and R.J. Craig Drainage Area-George White Arm by the Town of Fishers, seconded by Mr. Dillinger and passed unanimously.

Mr. Jerry Ayres came before the Board concerning, in his opinion, that he was being assessed unfairly on the Symons Drain and the William Thomas Drain. He had written a letter explaining his position. (H.I.)

Request to reduce assessm
Symonds and Wm Thomas Dra

"HAMILTON COUNTY DRAINAGE BOARD
C/O NANCY OLDHAM
HAMILTON COUNTY SURVEYOR'S OFFICE
1 HAMILTON COUNT SQUARE SUITE 146
NOBLESVILLE, IN 46060

TO WHOM IT MAY CONCERN:

IT BECAME APPARENT TO US THIS FALL THAT FOR SOME TIME WE HAVE BEEN PAYING A DITCH ASSESSMENT TWICE A YEAR THAT IS A DOUBLE CHARGE ON 80 ACRES. I HAVE ATTACHED COPIES OF OUR ASSESSMENT RECEIPTS FOR YOUR CONVENIENCE.

ONE CHARGE IS FOR THE WILLIAM THOMAS DRAIN AND ONE IS FOR THE GEORGE SYMONDS. THIS 80 ACRES DRAINS AND IS DITCHED TO THE WILLIAM THOMAS NOT GEORGE SYMONDS. WE HAVE BEEN PAYING AN \$80 ASSESSMENT TO BOTH DRAINS WHICH IS NOT FAIR AND NOT RIGHT.

AT THIS TIME, I WOULD LIKE TO ASK THE BOARDS' CONSIDERATION TO REMOVE THE ASSESSMENT OF THE 80 ACRES FOR THE GEORGE SYMONDS DRAIN AND REFUND THE AMOUNT WE HAVE PAID TO DATE FOR THE DOUBLE CHARGE.



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

October 12, 1994

To: Christie Starr
C.P. Morgan Co.

Re: R.J. Craig Drain

The Hamilton County Surveyors Office has reviewed and approves the proposed casting change on the existing structure (E2) on the R.J. Craig Drain.

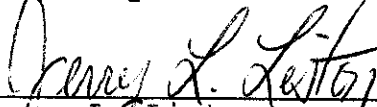
The casting change is from a solid type casting to a R-4342 casting (Beehive).

The remaining proposed changes to the drainage facilities in Heritage Meadows fall under the Town of Fishers jurisdiction.

Please install erosion control (straw bales or silt fence) around new casting on structure.

If you have any questions contact 776-8495.

Sincerely



Jerry L. Liston,
Inspector

JLL/jh

cc: Commissioners
Jim Brimbury, Fishers

file copy

Homes
By
MORGAN
C.P.
Creating Better Environments For Living

FACSIMILE COVER SHEET

NAME: Jerry Liston / Jim Brimbury

COMPANY: County Surveyor / Town of Fishers

FAX #: _____

TOTAL NUMBER OF PAGES TO FOLLOW: 1

DATE OF TRANSMISSION: Oct. 6, 1994

NOTES:

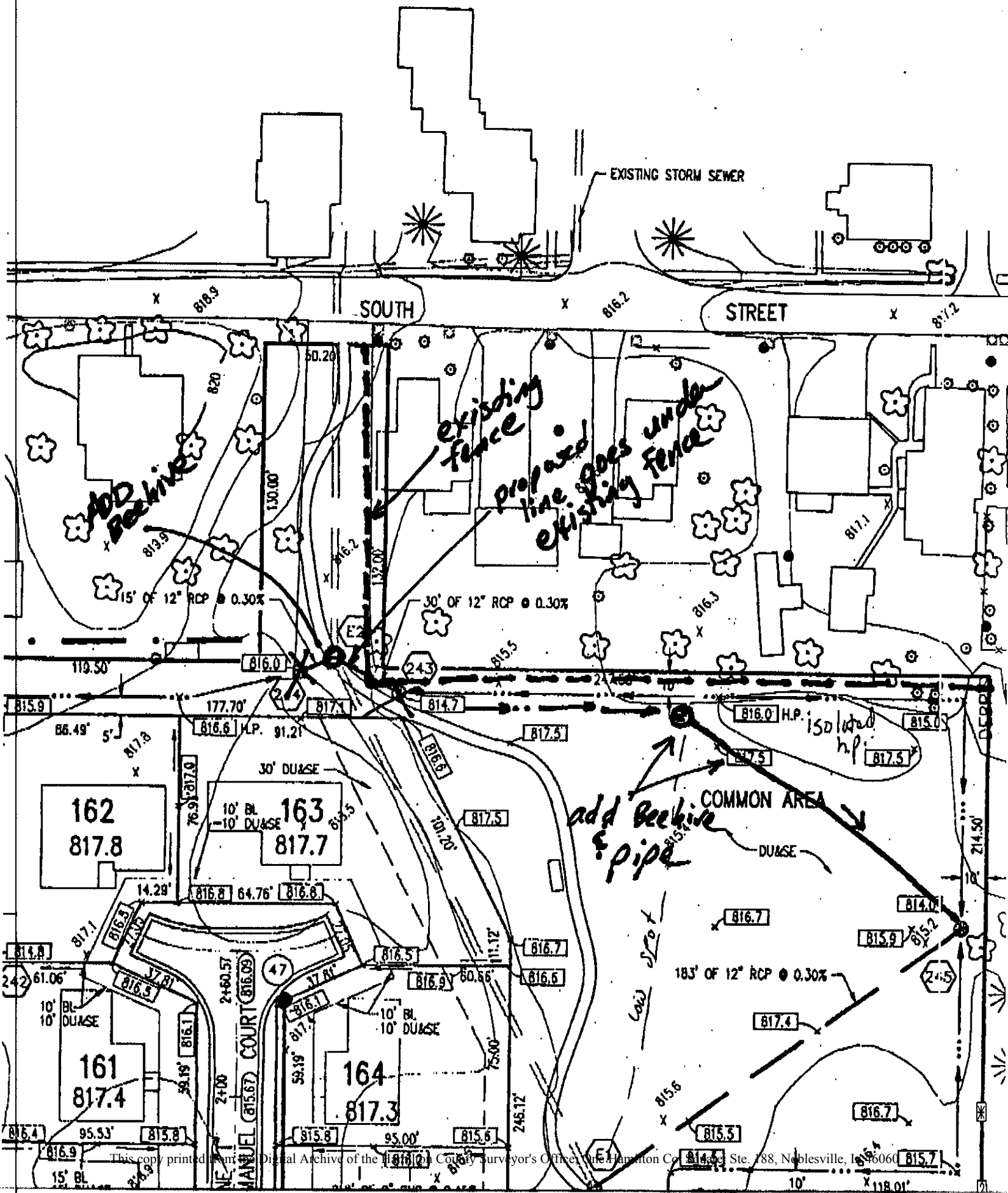
We would like to make several modifications to our storm drain improvements for Heritage Meadows Section 5. The existing fence is constructed making it very difficult to construct the pipes as shown. We are asking permission to delete 2 beehives and pipes and install a beehive on top of the existing manhole. The Topo is also off and it makes more sense to add a beehive as shown. I'd like to meet you on site next week to discuss these revisions. Thanks for your help.

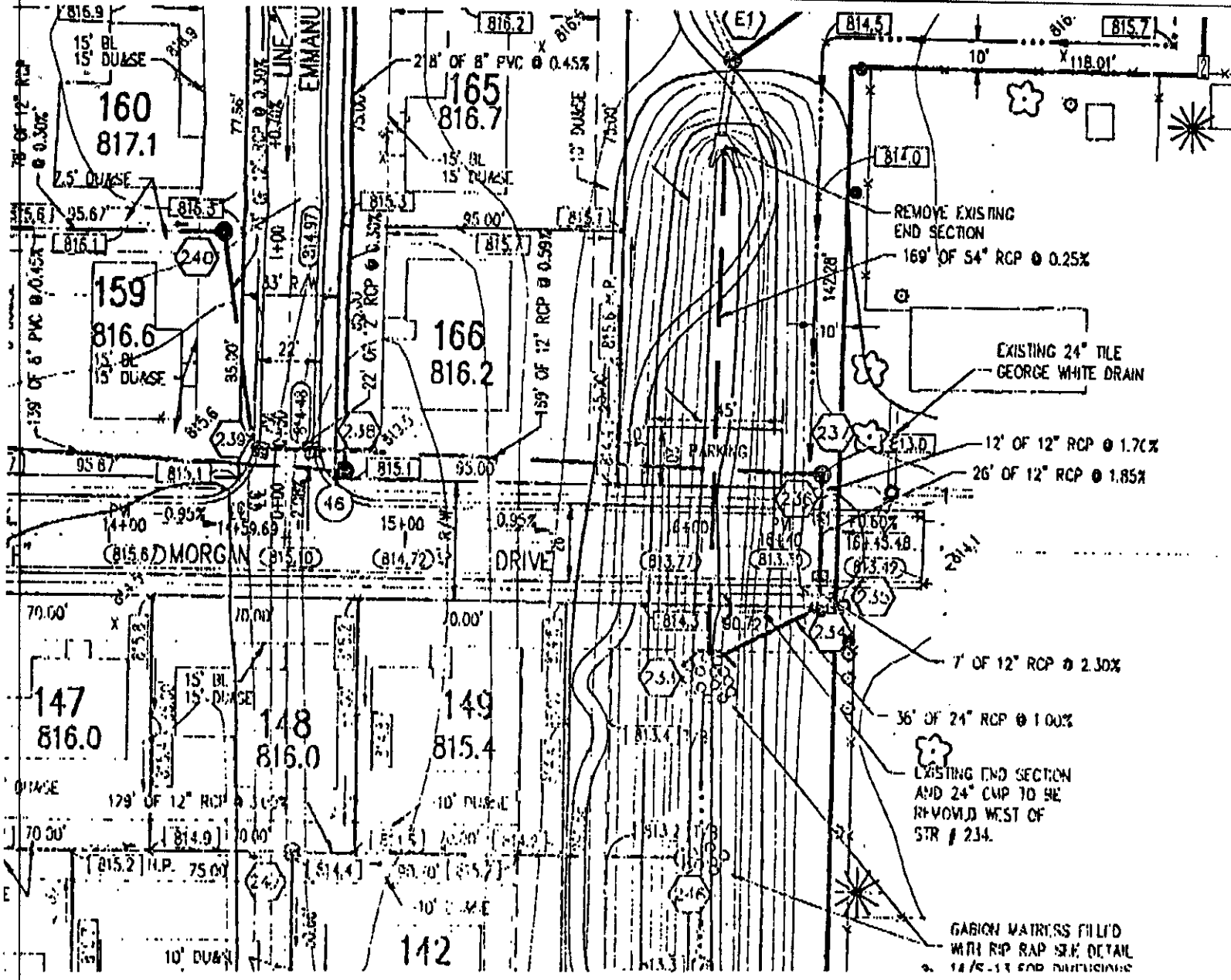
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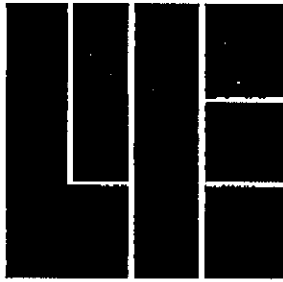
NAME: Christie Starr

PHONE #: (317) 848-4040

FAX #: (317) 848-2242







WEIHE ENGINEERS INC.

ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

10505 N. COLLEGE

INDIANAPOLIS, INDIANA 46280

317-846-6611
FAX (317) 843-0546

FAX TRANSMITTAL COVER SHEET

DATE: 26 FEB. 91

TO: JERRY LISTON

FAX NO. 776-9628

FROM: OBARA

JOB NO. R/CEN-6

TOTAL NUMBER OF DOCUMENTS IN THIS TRANSMISSION INCLUDING THIS PAGE: 3

NOTES: _____

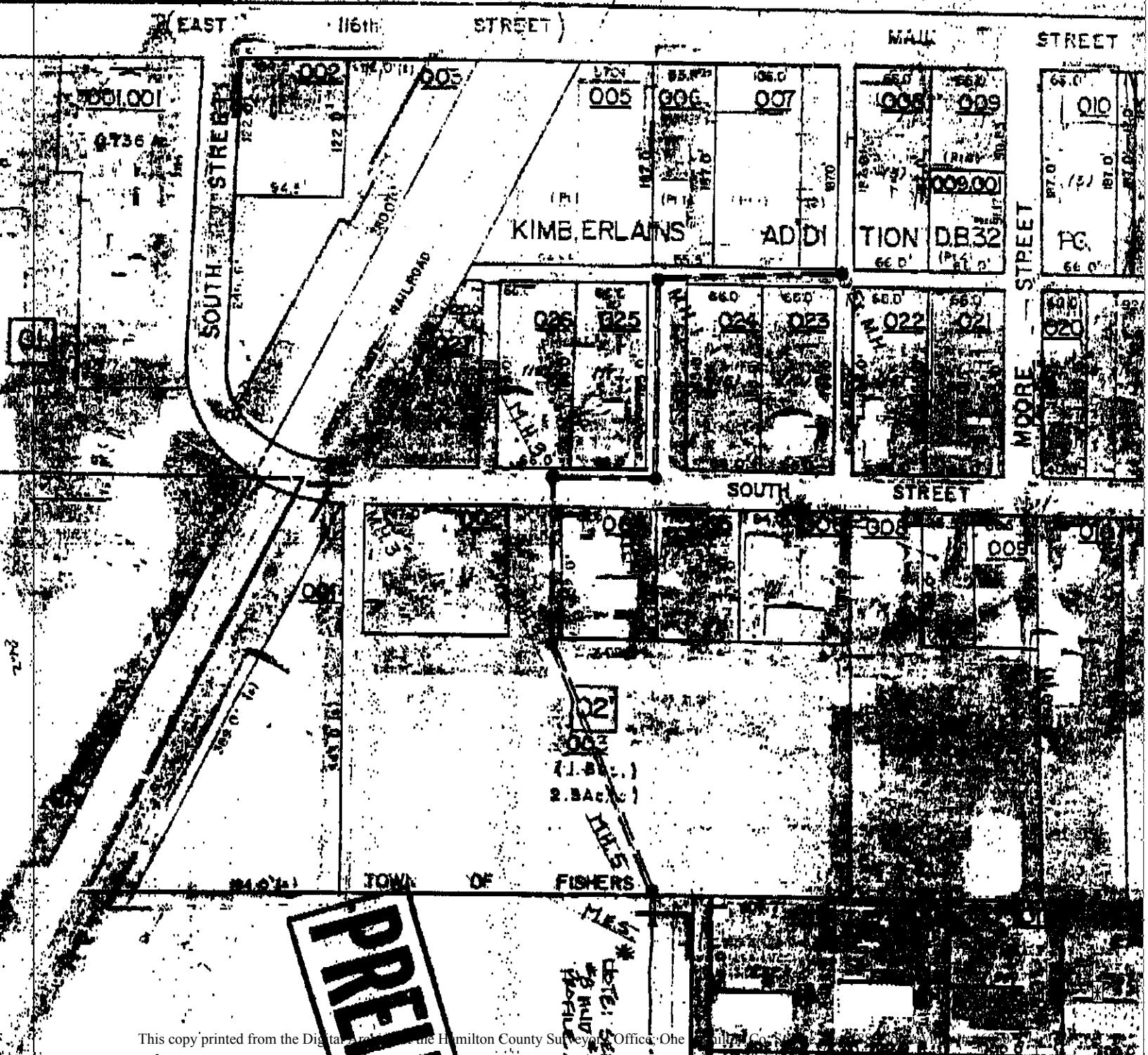
If you are experiencing difficulties in receiving, please call us at (317) 846-6611.

Thank you.

CIVIL ENGINEERS

LAND SURVEYORS

LAND PLANNERS



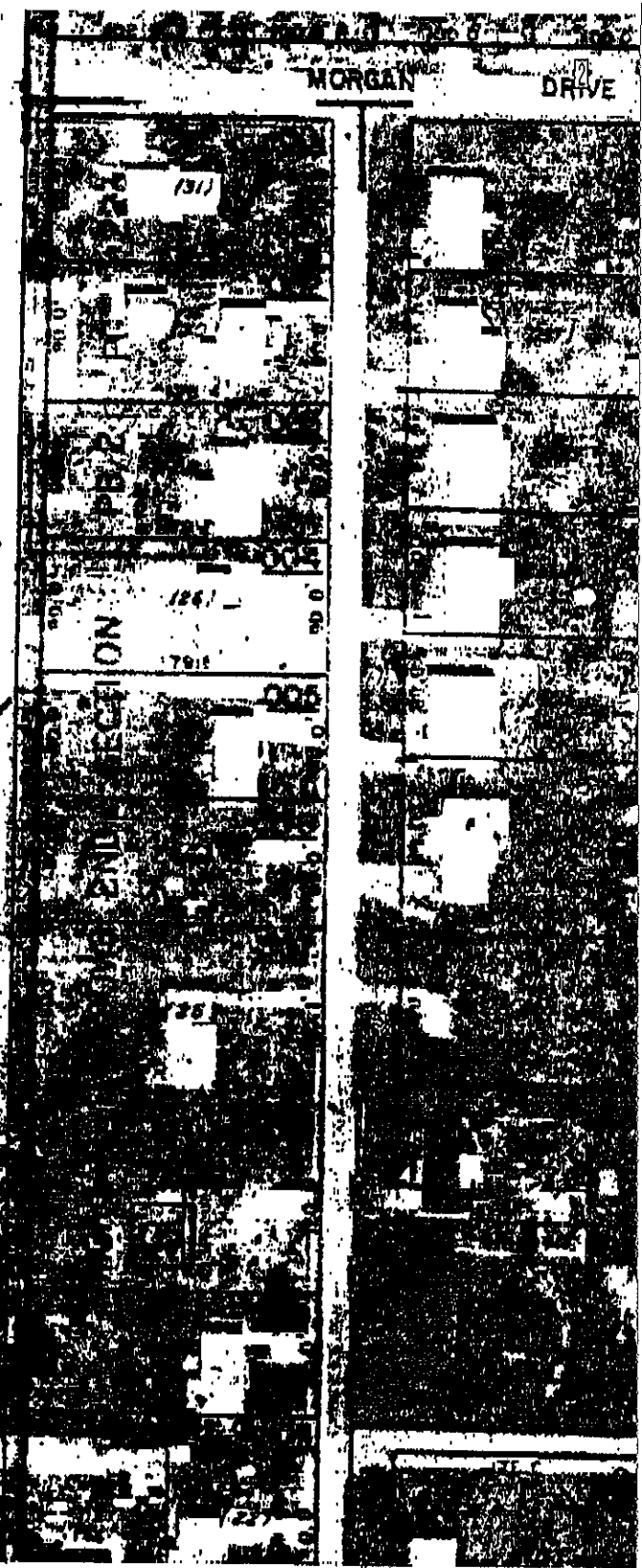
UNIVERSITY

SEE PLAN & PROFILE SHEETS
FOR PROPOSED DRIVE



14-01-00

WEST SIDE - ~~PROPOSED DRIVE~~



N1234

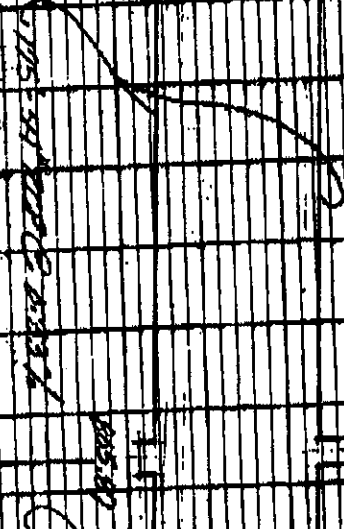
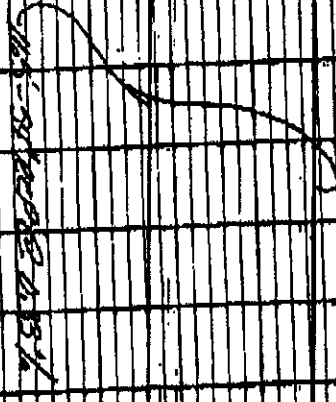
705

800

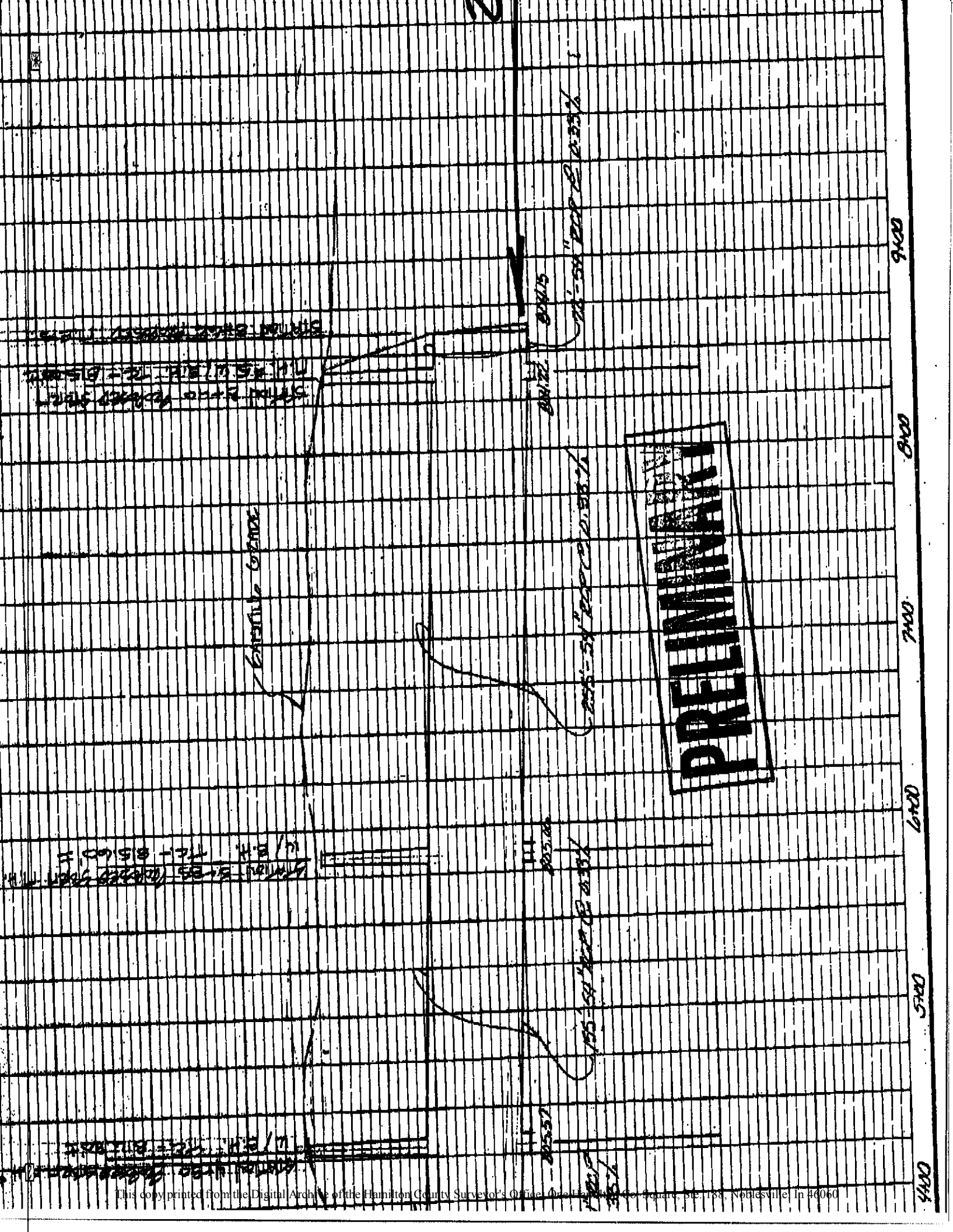
805

810

815



805
800
795



PRELIMINARY

9216

9218

7100

9217

9215

9214

George White Drain - SPILL SEWER R.M. AND REPAIRS

Prepared for
Hamilton County Drainage Board

SHEET NO

5

OF 11

815

810

805

800

795

CHERRY
CREEK

2400'
AT 0.915%

TO THE HAMILTON COUNTY DRAINAGE BOARD

The following Bid is for the Reconstruction of the
R.J. Craig Drainage Drain.

<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>COST</u>
<u>R.J. CRAIG OPEN DITCH</u>			
DREDGING	3910	FEET	
		4.51	17,634.10
CLEARING	8	ACRE	
		4,000.00	32,000.00
SEEDING (HYDRO)	10	ACRE	
		1,800.00	18,000.00
SILT BASINS	3	EACH	
		1,020.00	3,060.00
SUB TOTAL			70,694.10

NEW OPEN DITCH AND STORM SEWER

OPEN DITCH (NEW)	2400	FEET	
		13.84	33,216.00
SEEDING (HYDRO)	10	ACRE	
		1,410.00	14,100.00
54" RCP	848	FEET	
		73.76	62,548.48
96" MANHOLES	6	EACH	
		4,570.00	27,420.00
CLEARING	1	ACRE	
		3,800.00	3,800.00
GABION	2	EACH	
		100.00	200.00
60" MES	1	EACH	
		1,068.00	1,068.00
PAVEMENT REPLACEMENT	625	LINEAL FEET	
		46.18	28,862.50
SILT BASINS	2	EACH	
		420.00	840.00
SUB TOTAL			172,054.98

GRAND TOTAL PRICE 242,749.08

BF-1

Polindexter Excavating, Inc.
10443 East 56th Street
Indianapolis, Indiana 46236

SUPPLEMENTARY BID

RCP CI III

4 INCH	N/A	18 INCH	18.38
5 INCH	N/A	20 INCH	N/A
6 INCH	N/A	22 INCH	N/A
8 INCH	N/A	24 INCH	24.95
10 INCH	N/A	27 INCH	29.59
12 INCH	14.33	30 INCH	35.10
14 INCH	N/A	36 INCH	47.55
16 INCH	N/A		

CORRUGATED METAL PIPE PER LINEAL FOOT INSTALLED

	16GA	14GA	12GA	ANIMAL GUARD
6 INCH	7.97	N/A	N/A	34.69
8 INCH	8.97	9.86	N/A	36.80
10 INCH	10.05	11.69	N/A	38.80
12 INCH	11.50	13.71	N/A	41.56
15 INCH	13.42	15.19	N/A	46.83
18 INCH	15.82	16.79	22.60	60.83
21 INCH	17.24	20.63	25.38	62.83
24 INCH	18.55	22.39	28.50	73.10
30 INCH	21.16	25.87	32.69	81.65
36 INCH	25.47	31.64	39.63	91.48

PLASTIC PIPE PER LINEAL FOOT

4 INCH	5.54	8 INCH	7.34
5 INCH	N/A	10 INCH	8.49
6 INCH	6.85	12 INCH	10.56

BF-2

Poindexter Excavating, Inc.
10443 East 56th Street
Indianapolis, Indiana 46236

SUPPLEMENTARY BID (CONTINUED)

CONCRETE PER CUBIC YARD	185.00
7" OR 9" GRADED RIP RAP PER CUBIC YARD	31.50
DIRT FILL PER CUBIC YARD	3.25
GRAVEL FILL PER CUBIC YARD	8.00
MACHINE PRICE PER HOUR WITH OPERATOR	
CRANE	136.00
BULLDOZER	75.00
BACKHOE WITH LOADER	61.00
TRUCK 1/2 TON 35.00	3/4 TON 35.00
2 TON 51.00	1 TON 47.00
	OVER 2 TON 55.00

LABOR PER HOUR (NOT INCLUDING MACHINE OPERATORS)

SUPERVISORS	46.00
LABORS	30.00

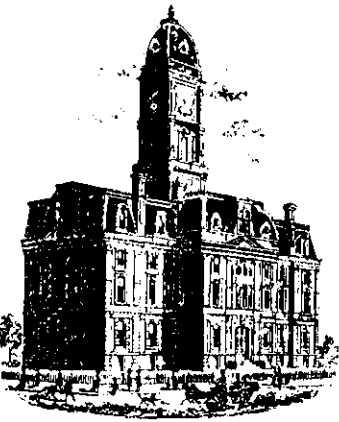
OTHER BID ITEMS

THE ABOVE BID HAS BEEN SUBMITTED THIS 1 DAY OF July
 19 91.

BY: Poindexter Excavating, Inc.
 Name of Bidder

BY: Billy Poindexter
 Signed for Bidder
 Billy Poindexter, President

BF-3



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

December 2, 2003

Re: RJ Craig Drain: George White Arm

Attached are final road construction plans and other information for 116th Street Reconstruction of the George White Drain. An inspection of the drainage facilities for this area 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 verbal report presented to the Board. The report was approved by the Board at its meeting held November 24, 1997. (See Drainage Board Minutes Book 4, Page 482)

The changes to the drain are as follows:

Arm 1

Arm 1 of the George White Drain was replaced from Sta 0 to the point it was reconstructed in 1991. Therefore, Arm 1 has been replaced in its entirety with the completion of this project. The arm now consists of 15" RCP. The length of drain for **Arm 1 is 257 feet.**

Arm 2

Arm 2 of the George White Drain was replaced from Sta 1+20 to its terminus. This project saw 212 feet of 24" RCP and 26 feet of 27" RCP installed. Therefore, the length of drain for **Arm 2 is 358 feet.**

Arm 3

Arm 3 of the George White Drain was replaced from Sta 8+75 to the point it was reconstructed in 1991. Sta 0 to 8+75 as constructed in 1951 still remains. The arm now consists of 12" tile and 15" RCP. The length of drain for **Arm 3 is 1164 feet.**

The above mentioned facilities were paid for by the Town of Fishers.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward,
Hamilton County Surveyor

CONTINUATION SHEET

Subcontract Title: POINDEXTER EXCAVATION INC.

Page : 2 of 2 Pages

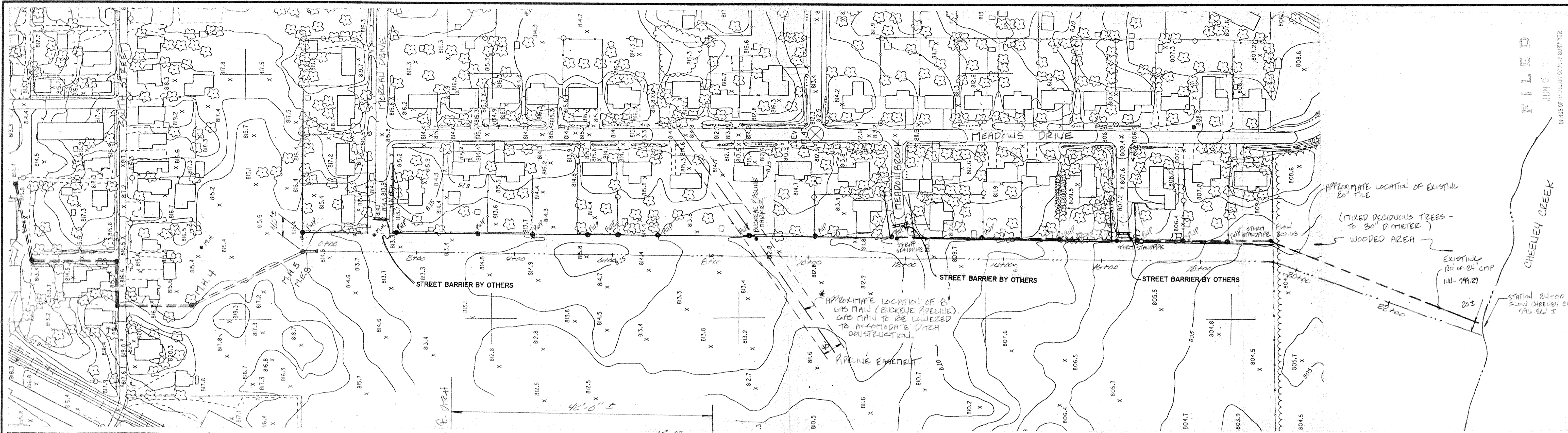
91-040A3

Contract No. R.J. CRAIG DRAIN

Application No.: TWO

Period to : 8/30/91

Item No.	Description of Work	Scheduled Value			Progress of Works (%)			Value of Works Completed			
		Quantity	Unit	Rate	Total Value	This Period	From Previous Application	Total Completed and Stored To Date	This Period	From Previous Application	Total Completed and Stored To Date
					(C x E)	(J/F)	(K/F)	(L/F)			(J+K)
1.	DREDGING	3910	FT.	4.51	17,634.10	15.00%	85.00%	100.00%	2,645.12 2,452.20	14,988.90	17,634.02 ✓
2.	CLEARING	8	A.	4,000.00	32,000.00		100.00%	100.00%		32,000.00	32,000.00 ✓
3.	SEEDING (HYDRO)	10	A.	1,800.00	18,000.00	100.00%		100.00%	18,000.00		18,000.00 ✓
4.	SILT BASINS	3	EA.	1,020.00	3,060.00	67.00%	33.00%	100.00%	2,040.00	1,020.00	3,060.00 ✓
5.	OPEN DITCH (NEW)	2400	FT.	13.84	33,216.00	100.00%		100.00%	33,216.00		33,216.00 ✓
6.	SEEDING (HYDRO)	10	A.	1,410.00	14,100.00	90.00%		90.00%	12,690.00		12,690.00 ✓
7.	54" RCP	848	FT.	73.76	62,548.48		100.00%	100.00%		62,548.48	62,548.48 ✓
8.	MANHOLES	6	EA.	4,570.00	27,420.00		100.00%	100.00%		27,420.00	27,420.00 ✓
9.	CLEARING	1	A.	3,800.00	3,800.00		100.00%	100.00%		3,800.00	3,800.00 ✓
10.	GABIONS	2	EA.	100.00	200.00		100.00%	100.00%		200.00	200.00 ✓
11.	60" MES	1	EA.	1,068.00	1,068.00						
12.	PAVEMENT REPLACEMENT	625	LF.	46.18	28,862.50		65.00%	65.00%		18,760.63	18,760.63 ✓
13.	SILT BASINS CHANGE ORDER # 1	2	EA.	420.00	840.00	100.00%		100.00%	840.00		840.00 ✓
14.	EARTHEN STREET BARRICADES	3	EA.	215.00	645.00	50.00%		50.00%	322.50		322.50 ✓
15.	EXTENTION PIPE & INLET, BRABURN DRAIN	1	LS.	1,675.00	1,675.00		100.00%	100.00%		1,675.00	1,675.00 ✓
16.	GRADE & INSTALL RIP-RAP STATION 19+00	1	LS.	395.00	395.00		100.00%	100.00%		395.00	395.00 ✓
17.	ARMOR CORNER STA. 19+00 CHANGE ORDER # 2	1	LS.	1,300.00	1,300.00	100.00%		100.00%	1,300.00		1,300.00 ✓
18.	ENLARGE PIPE HOLES FOR FUTURE CONST.	1	LS.	524.16	524.16	100.00%		100.00%	524.16		524.16 ✓
				\$247,288.24	Totals				\$71,577.76 71,577.86	\$162,808.01	\$234,385.79

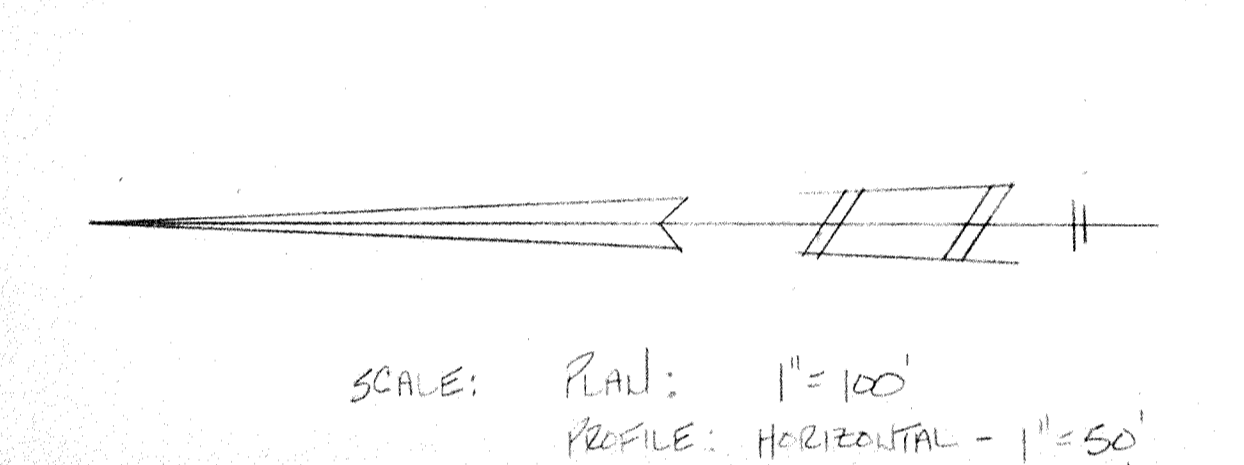
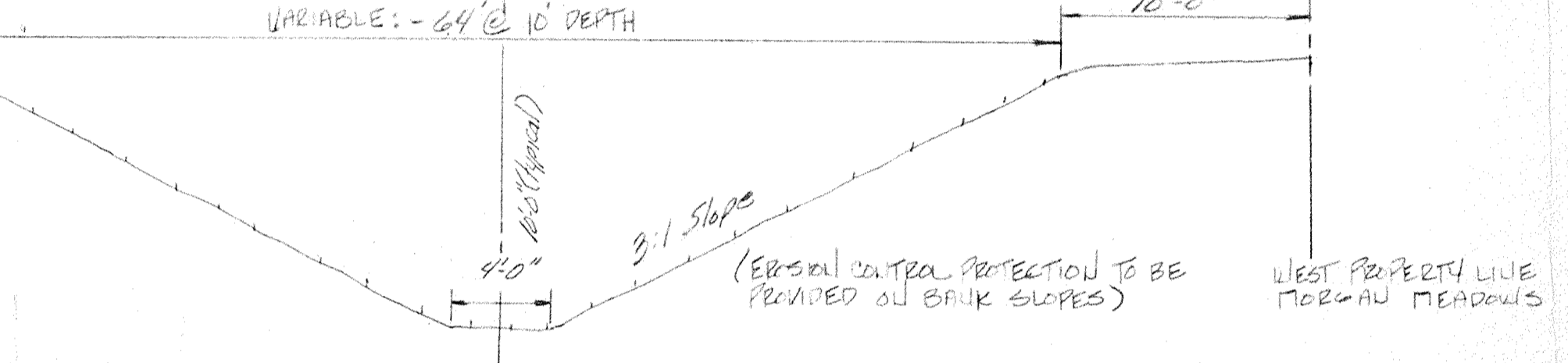


HAMILTON COUNTY INDIANA
1823

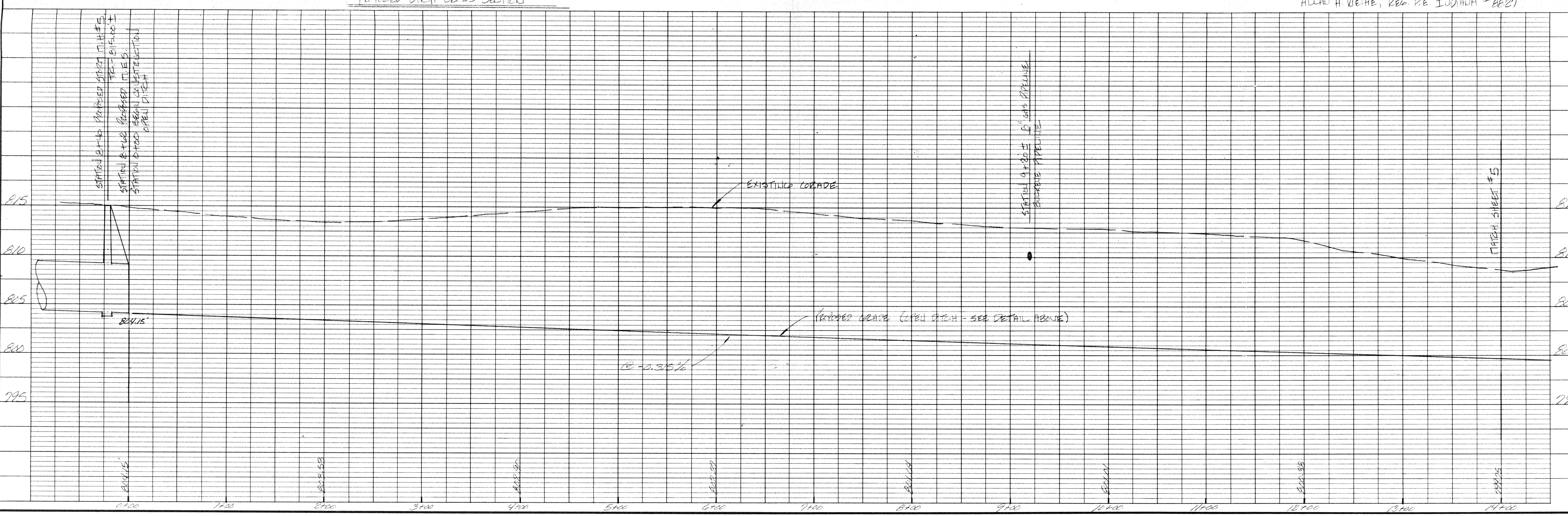
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

City Date: 11-26-03

Entered by: [Signature]



* NOTE: ACTUAL LOCATION OF PROPOSED DITCH SHALL BE DETERMINED IN THE FIELD BY THE HAMILTON COUNTY SURVEYOR, PRIOR TO CONSTRUCTION.



FILED
JUN 03 2004
OFFICE OF HAMILTON COUNTY SURVEYOR

WEIHE ENGINEERS INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611

LAND PLANNERS
LAND SURVEYORS
CIVIL ENGINEERS

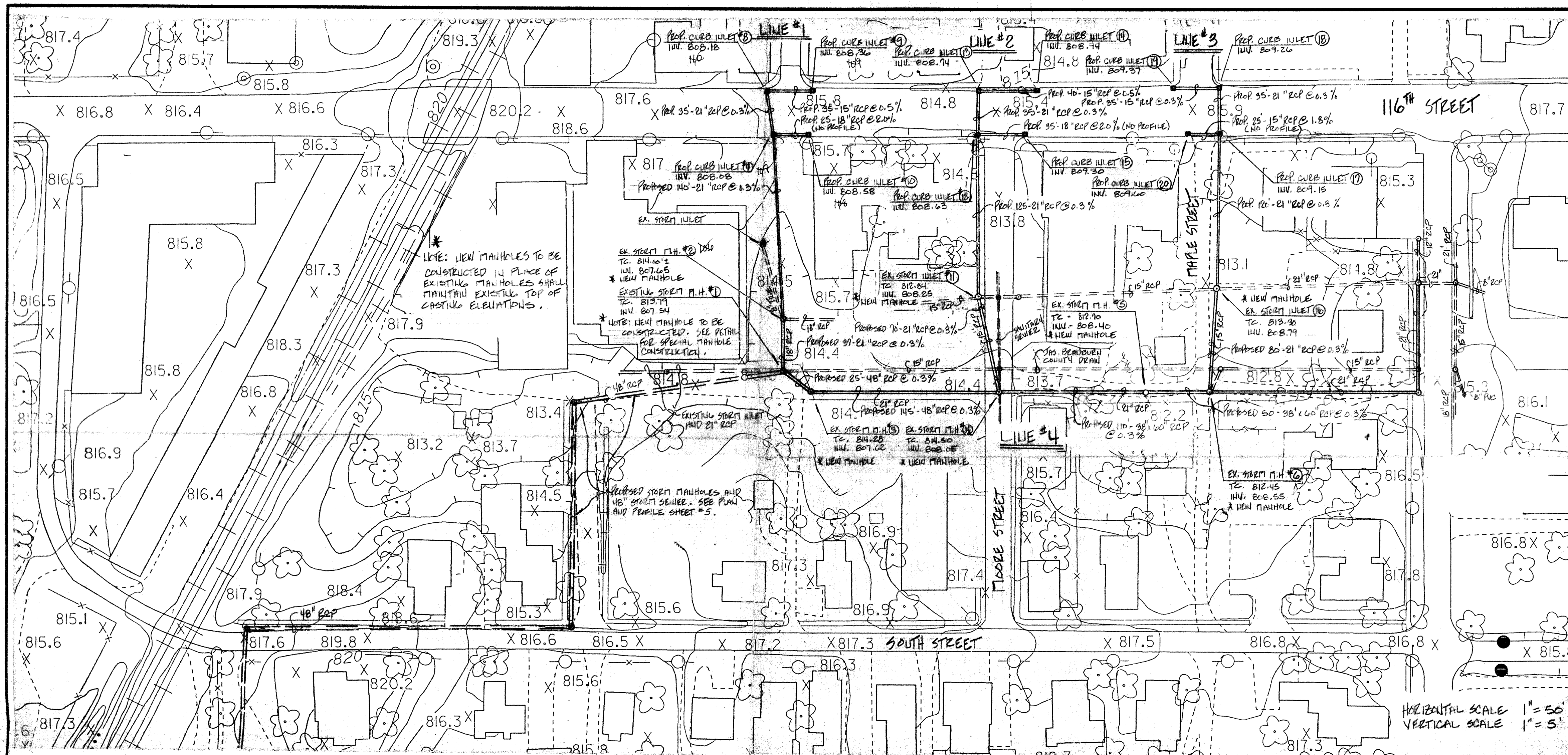
ALLAN H. WEIHE, P.E., L.S.
PRESIDENT

DATE: 11-26-03	DATE: 11-26-03
BY: [Signature]	BY: [Signature]
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DATE: 11-26-03	DATE: 11-26-03
BY: [Signature]	BY: [Signature]
DRAWN BY: [Signature]	CHECKED BY: [Signature]

REVISIONS:
1. CHANGE FROM 24\"/>

HAMILTON COUNTY DRAINAGE BOARD
GEORGE WHITE DEAN: PROPOSED DITCH PLAN & PROFILE

SHEET NO. **6**
OF 10



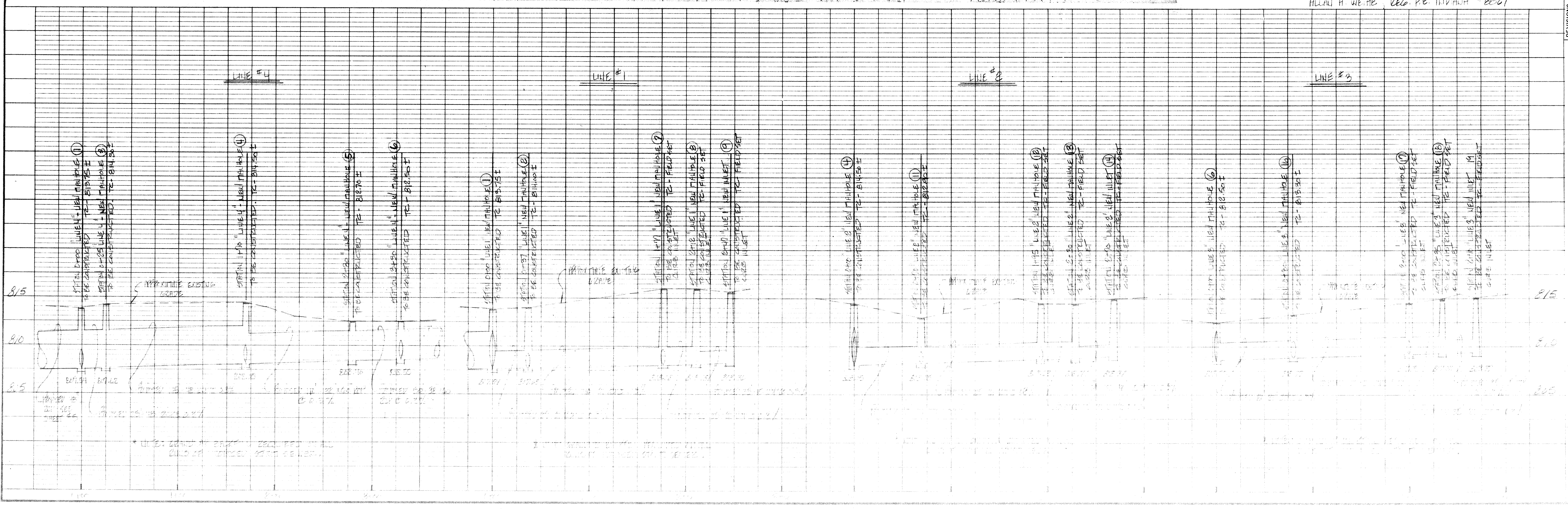
- GENERAL NOTES:
- 1) IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNERS AND THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
 - 2) ALL STORM SEWER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE CLASS III OR AS NOTED AND CONFORM TO A.S.T.M. C-76 OR LATEST REVISION.
 - 3) STANDARD SPECIFICATIONS OF THE TOWN OF FISHERS AND THE HAMILTON COUNTY DRAINAGE BOARD SHALL APPLY FOR ALL WORK AND MATERIALS.
 - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE, CITY AND COUNTY PERMITS.
 - 5) ALL PIPES OR DRAINAGE STRUCTURES UNDER PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED BY APPROVED METHODS.
 - 6) THE TOP OF EXISTING ELEVATIONS OF THE PROPOSED CURB INLETS ON 116th STREET SHALL BE SET AND ADJUSTED IN THE FIELD AT TIME OF CONSTRUCTION TO MATCH EXISTING PAVEMENT AND TOP OF CURB ELEVATIONS.
 - 7) THERE EXISTS A 20" WATER MAIN (INDIANAPOLIS WATER COMPANY) ALONG 116th STREET. WHERE THE PROPOSED STORM SEWER CROSSES THE MAIN, DEPENDING UPON THE DEPTH OF THE WATER MAIN, THE PROPOSED STORM SEWER MAIN NEED TO BE RAISED OR LOWERED IN THE FIELD UPON VERIFICATION OF THE WATER MAIN DEPTH. THE WATER MAIN ALSO EXTENDS SOUTH ALONG THE WEST SIDE OF WATER MAIN ROAD, APPROXIMATELY 8 FEET WEST OF CENTERLINE. IF THE PROPOSED STORM SEWER CONSTRUCTION CONFLICTS WITH THE EXISTING WATER MAIN, CORRECTIVE MEASURES SHALL BE AT THE DISCRETION OF THE HAMILTON COUNTY SURVEYOR AND THE INDIANAPOLIS WATER COMPANY.
 - 8) WHERE EXISTING STORM SEWER IS TO BE REPLACED WITH PROPOSED STORM SEWER OF GREATER SIZE, THE EXISTING MANHOLES SHALL BE RECONSTRUCTED TO ACCOMMODATE THE LARGER PIPE SIZES. MANHOLE RECONSTRUCTION TO BE AT THE DISCRETION OF THE HAMILTON COUNTY SURVEYOR. ONLY IF THE EXISTING MANHOLES HAVE OTHER STORM SEWER LINES CONNECTING TO THEM. ALL LINES EXISTING AT EACH MANHOLE SHALL CONTINUE TO CONNECT TO THE MANHOLES UNLESS OTHERWISE DIRECTED BY THE HAMILTON COUNTY SURVEYOR.

This information was gathered for input in the GIS system. The geographic information is provided by the GIS system. The information is not a guarantee of accuracy or reliability of the GIS.

Entry Date: 12-1-03

Entered by: *Jef*

ALLAN H. WEIHE, REG. P.E. INDIANA #8837



WEIHE ENGINEERS INC.
1505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6811

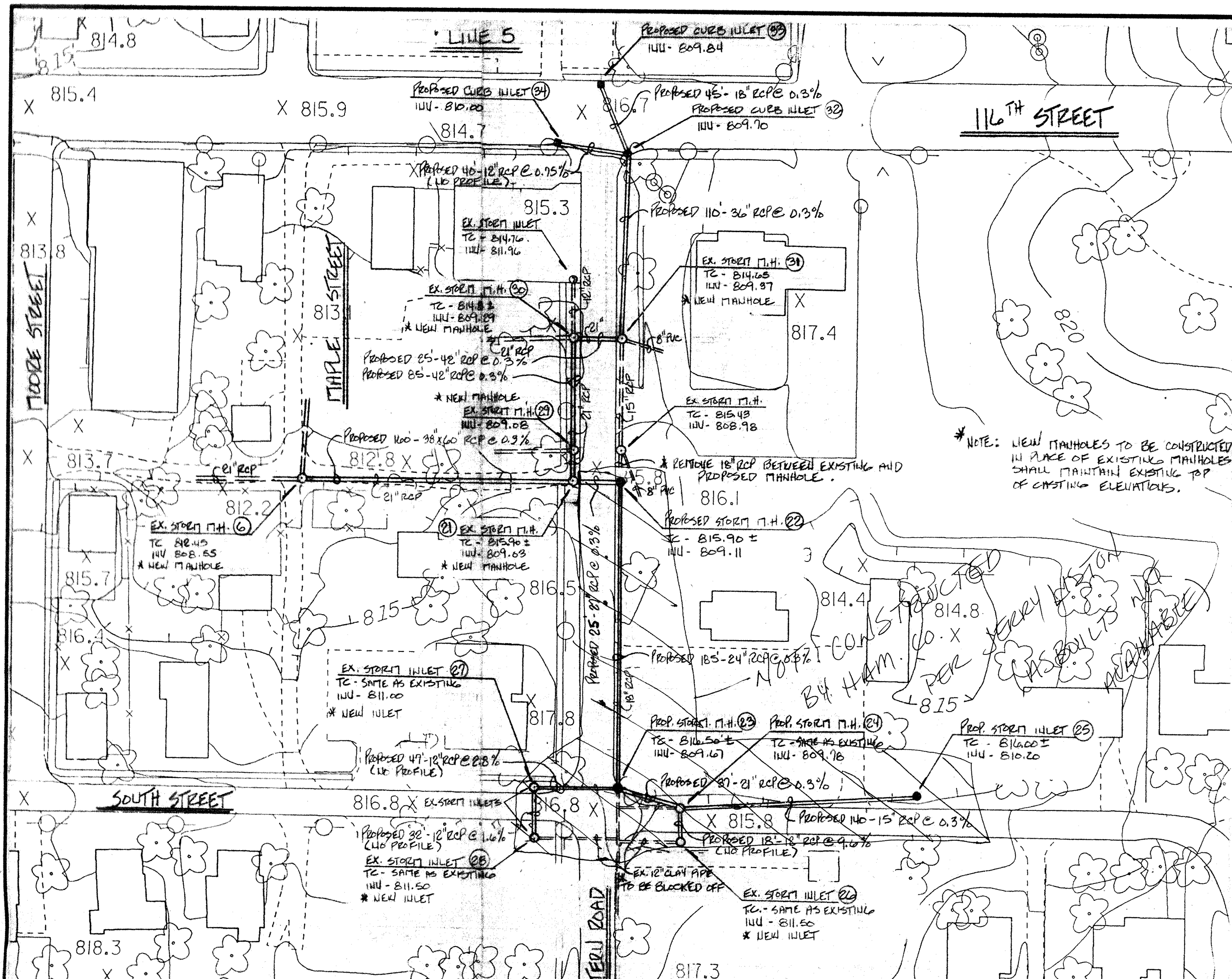
DATE BY: JOB NO. 01-7605
DRAWN BY: P.H.P.
CHECKED BY: A.H.W.
DATE: 12-1-03

LAND PLANNERS
LAND SURVEYORS
CIVIL ENGINEERS

REVISIONS

F. B. PAGE

SHEET NO. 6



GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNERS AND/OR THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- ALL STREET SEWER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE CLASS III OR AS NOTED AND CONFORM TO A.S.T.M. C-76 OR LATEST REVISION.
- STANDARD SPECIFICATIONS OF THE TOWN OF FISHERS AND THE HAMILTON COUNTY DRAINAGE BOARD SHALL APPLY FOR ALL WORK AND MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE, CITY AND COUNTY PERMITS.
- ALL PIPES OR DRAINAGE STRUCTURES UNDER PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED BY APPROVED METHODS.
- THE TOP OF CASTING ELEVATIONS OF THE PROPOSED CURB INLETS ON 116TH STREET SHALL BE SET AND ADJUSTED IN THE FIELD AT TIME OF CONSTRUCTION TO MATCH EXISTING PAVEMENT AND TOP OF CURB ELEVATIONS.
- THERE EXISTS A 20" WATER MAIN (INDIANAPOLIS WATER COMPANY) ALONG 116TH STREET, WHERE THE PROPOSED STREET SEWER CROSSES THE MAIN. DEPENDING UPON THE DEPTH OF THE WATER MAIN THE PROPOSED STREET SEWER MAIN NEED TO BE RAISED OR LOWERED IN THE FIELD UPON VERIFICATION OF THE WATER MAIN DEPTH. THE WATER MAIN ALSO EXTENDS SOUTH ALONG THE WEST SIDE OF LAUREL ROAD, APPROXIMATELY 4 FEET WEST OF CENTERLINE. IF THE PROPOSED STREET SEWER CONSTRUCTION COMPLECTS WITH THE EXISTING WATER MAIN, CORRECTIVE MEASURES SHALL BE AT THE DIRECTION OF THE HAMILTON COUNTY SURVEYOR AND THE INDIANAPOLIS WATER COMPANY.
- WHERE EXISTING STREET SEWER IS TO BE REPLACED WITH PROPOSED STREET SEWER OF GREATER SIZE, THE EXISTING MANHOLES SHALL BE RECONSTRUCTED TO ACCOMMODATE THE LARGER PIPE SIZES. MANHOLE RECONSTRUCTION TO BE AT THE DIRECTION OF THE HAMILTON COUNTY SURVEYOR. MANY OF THE EXISTING MANHOLES HAVE OTHER STREET SEWER LINES CONNECTING TO THEM. ALL LINES EXISTING AT EACH MANHOLE SHALL CONTINUE TO CONNECT TO THE MANHOLES UNLESS OTHERWISE DIRECTED BY THE HAMILTON COUNTY SURVEYOR.



This information was gathered for input into the Hamilton County Government's Information System and is not to be construed as an official record of any other nature.

Entry Date: 12-2-03

Entered by: Jof

WEIHE ENGINEERS INC.
 10605 NORTH COLLEGE AVENUE
 INDIANAPOLIS, INDIANA 46280
 (317) 846-8611

ALAN H. WEIHE, P.E., L.S.
 PRESIDENT

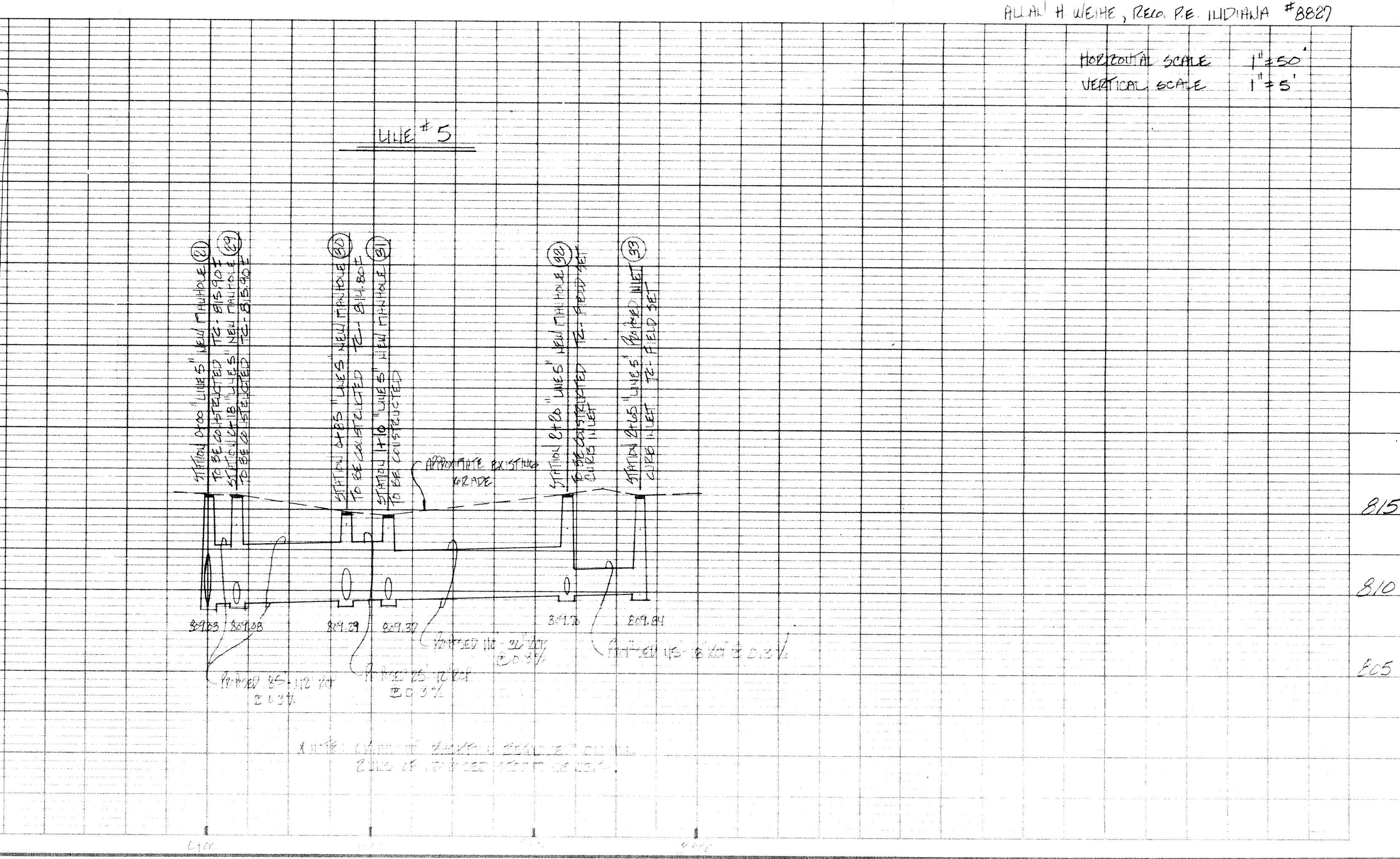
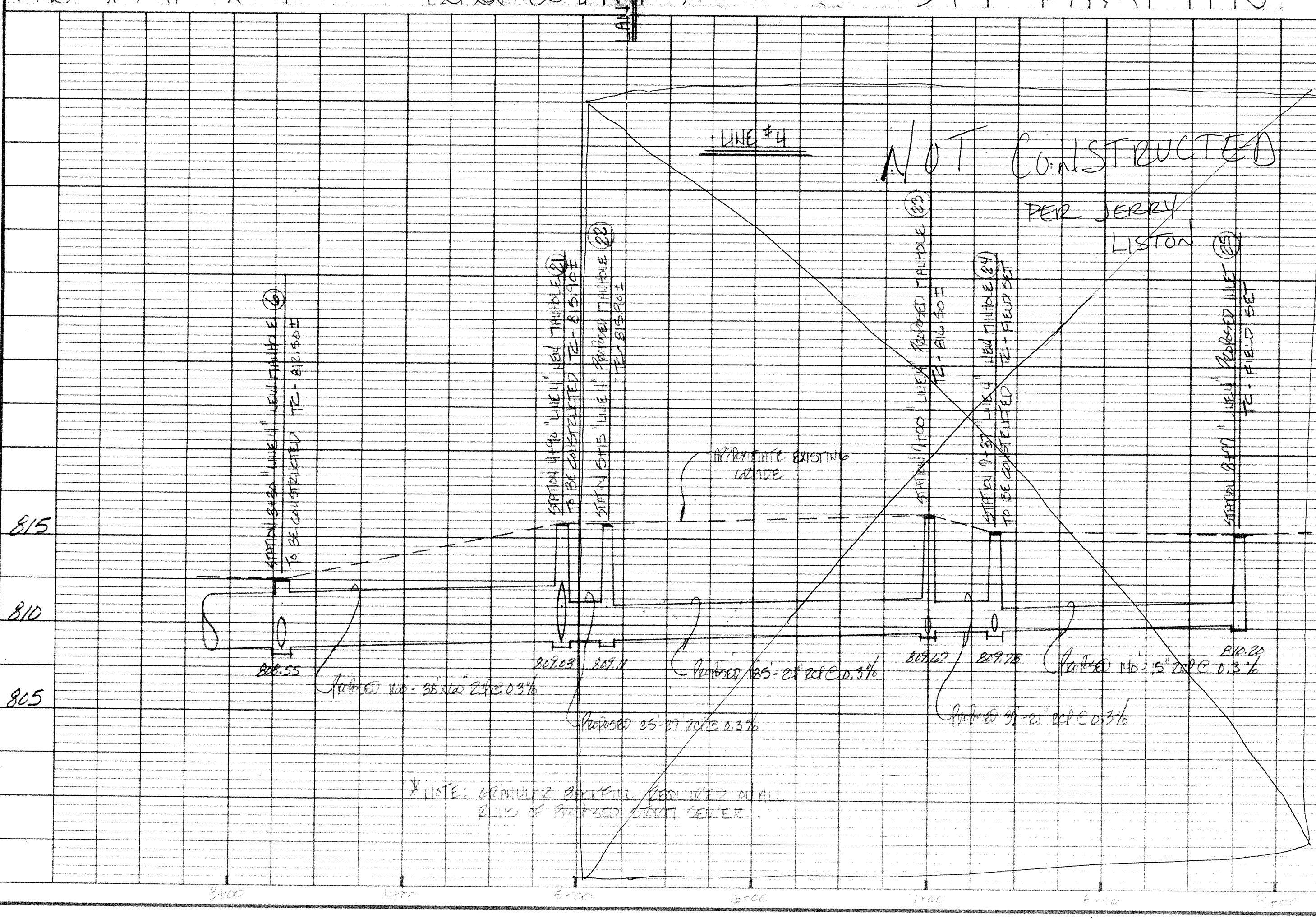
CIVIL ENGINEERS
 LAND PLANNERS
 LAND SURVEYORS

JOB NO: 84-505
 DRAWN BY: P.H.B.
 CHECKED BY: Z.H.U.
 DATE: 5-24-90

DATE BY: 12-2-03
 REVISIONS: 1

HAMILTON COUNTY DRAINAGE BOARD
 WEIHE WHITE ZEM: STREET PLAN AND PROFILE

SHEET NO: 7
 OF 11

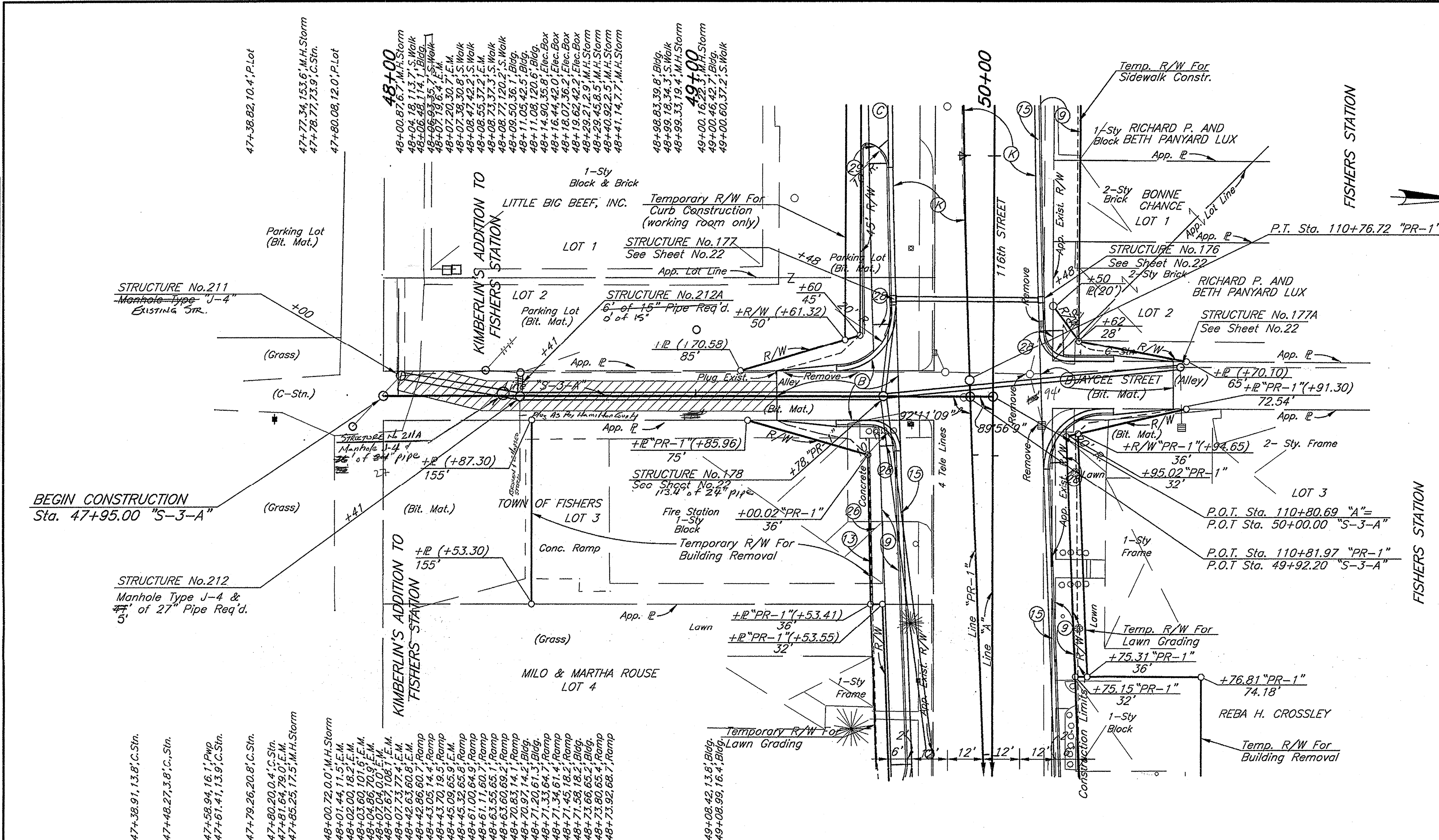


FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	STP-B886(1997	26	125

PLAN
 DATE: 6-5-97
 BY: M. MARK A. H. WISE
 CHECKED: M. MARK A. H. WISE
 DATE: 6-5-97
 NOTE: SEE REVISION RECORD
 NO.:

41.2851(AUTOCAD) (PLOT) 2591PES3.dwg 05-17-99 AT 15:42 DUB 20

PROFILE
 DATE: 6-5-97
 BY: M. MARK A. H. WISE
 CHECKED: M. MARK A. H. WISE
 DATE: 6-5-97
 NOTE: SEE REVISION RECORD
 NO.:



ALL R/W TO BE AS SHOWN
 ALL R/W DESCRIBED FROM
 LINE "A" EXCEPT AS NOTED.

FOR LINE "PR-1" PLAN &
 PROFILE SEE SHEET NO. 22

LEGEND

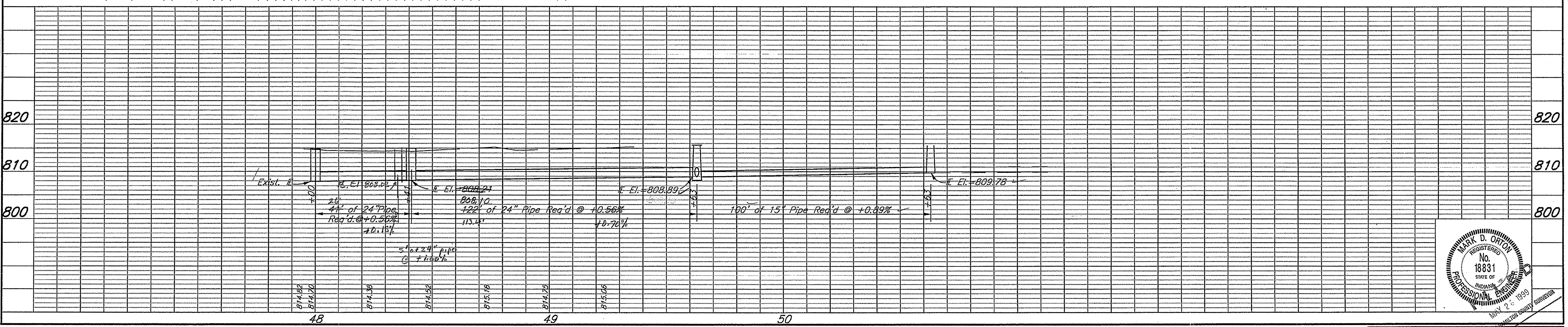
- (B) BITUMINOUS PAVEMENT FOR APPROACHES
- (C) CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS
- (K) BITUMINOUS PAVEMENT (SEE TYPICAL SECTION)
- (9) SIDEWALK UNIT PAVERS (See Detail Sht. No.29)
- (13) CONCRETE CURB
- (15) MODIFIED CONCRETE CURB & GUTTER
- (26) SODDING
- (28) CURB RAMP, TYPE "G"
- (29) CURB RAMP, TYPE "N"
- ▨ PAVEMENT PATCH (See Sheet No.29)

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-03

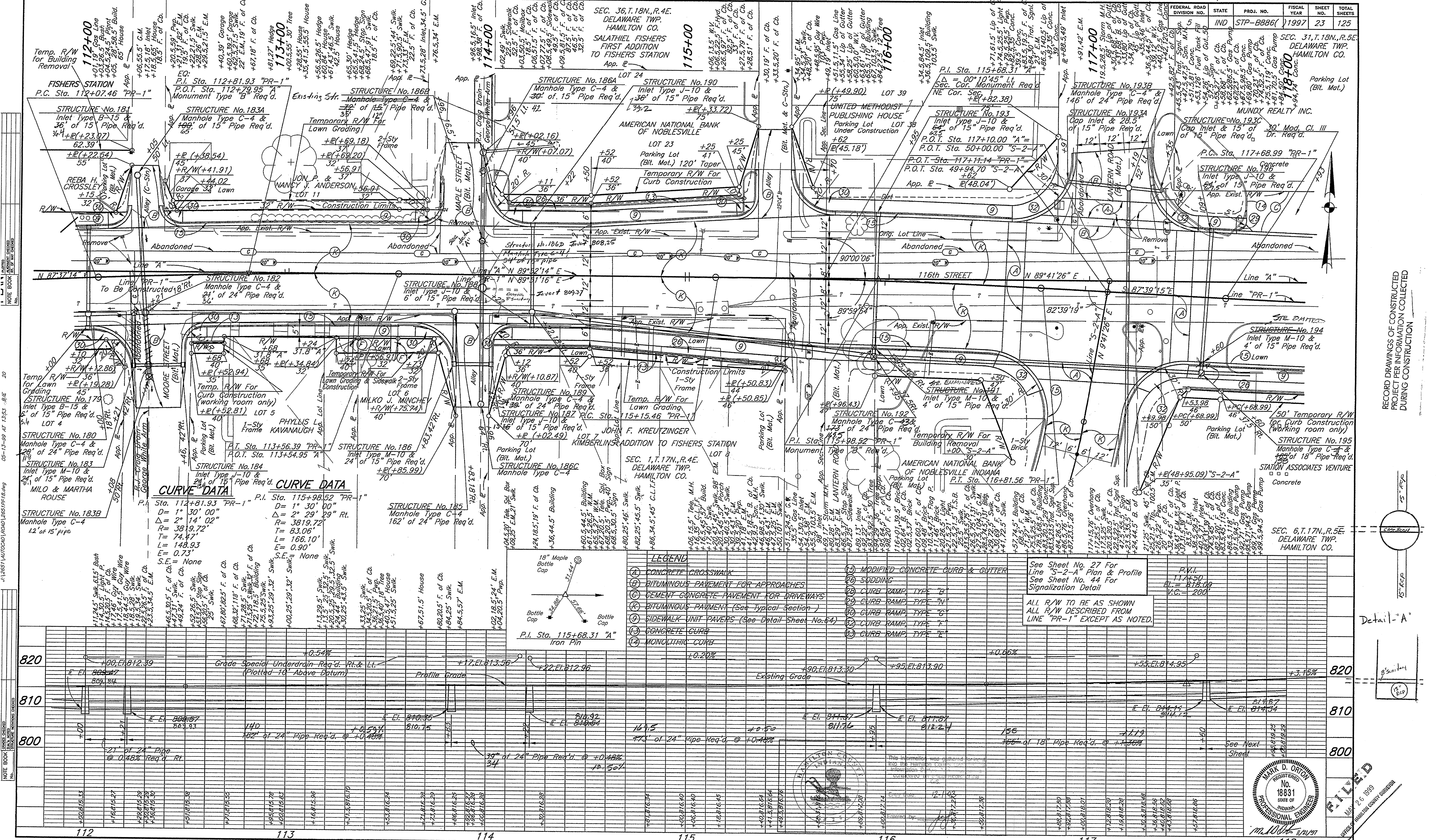
Entered by: [Signature]

RECORD DRAWINGS OF CONSTRUCTED PROJECT PER INFORMATION COLLECTED DURING CONSTRUCTION



MARK D. ORTON
 REGISTERED
 No. 18831
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 MAY 26 1995

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-B886(S-3-A	26	125	2710



CURVE DATA

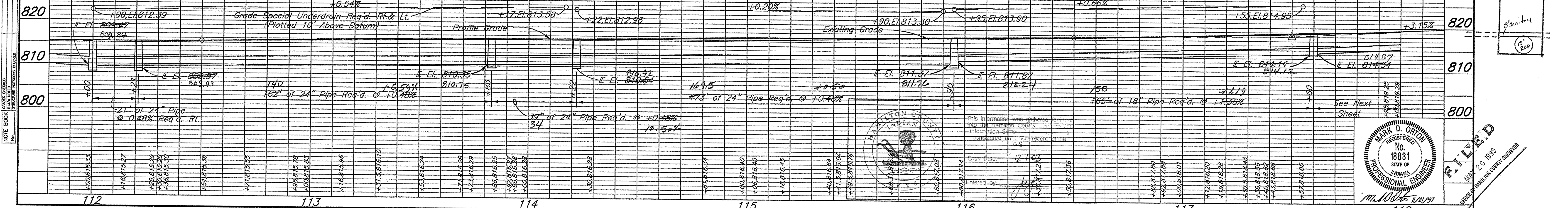
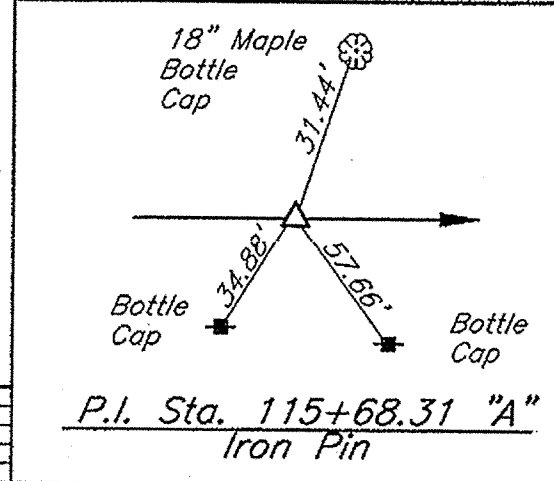
P.I. Sta. 112+81.93 "PR-1"	P.I. Sta. 115+98.52 "PR-1"
D = 1° 30' 00"	D = 1° 30' 00"
Δ = 2° 14' 02"	Δ = 2° 29' 09"
R = 3819.72'	R = 3819.72'
T = 74.47'	T = 83.06'
L = 148.93'	L = 166.10'
E = 0.73'	E = 0.90'
S.E. = None	S.E. = None

LEGEND

- (1) CONCRETE CROSSWALK
- (2) BITUMINOUS PAVEMENT FOR APPROACHES
- (3) CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS
- (4) BITUMINOUS PAVEMENT (See Typical Section)
- (5) SIDEWALK UNIT PAVERS (See Detail Sheet No. 64)
- (6) CONCRETE CURB
- (7) MONOLITHIC CURB
- (8) MODIFIED CONCRETE CURB & CUTTER
- (9) SODDING
- (10) CURB RAMP TYPE "B"
- (11) CURB RAMP TYPE "N"
- (12) CURB RAMP TYPE "G"
- (13) CURB RAMP TYPE "K"
- (14) CURB RAMP TYPE "E"

See Sheet No. 27 For Line "S-2-A" Plan & Profile
See Sheet No. 44 For Signalization Detail

ALL R/W TO BE AS SHOWN
ALL R/W DESCRIBED FROM LINE "PR-1" EXCEPT AS NOTED.



RECORD DRAWINGS OF CONSTRUCTED PROJECT PER INFORMATION COLLECTED DURING CONSTRUCTION



FILED
MAY 26 1999
HAMILTON COUNTY ENGINEER

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-B886	"A"	23	125	2710