

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

December 18, 2003

TO: Hamilton County Drainage Board

RE: Canal Place Drain, Section 2 Arm

Attached is a petition filed by Marina Limited Partnership along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 2 Arm, Canal Place Drain to be located in Fall Creek Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described 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	7,892 ft.	15"RCP	558 ft.	24" RCP	230 ft.
12"RCP	1,164 ft.	18" RCP	948 ft.	27" RCP	491 ft.

The total length of the drain will be 11,283 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 \$ 5.00 per acre for common areas, \$50.00 for platted lots, \$10.00 per acre for roadways, with a \$ 50.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$ 3,629.00.

The petitioner has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties which are in the form of a Letter of Credit are as follows:

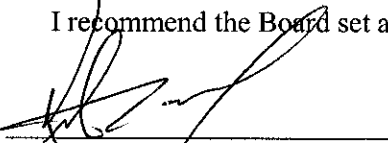
Agent: Fifth Third Bank
Date: August 25, 2003
Number: CIS401707
For: Erosion Control
Amount: \$36,025.00

Agent: Fifth Third Bank
Date: August 25, 2003
Number: CIS401709
For: Storm Sewer and Subsurface Drain
Amount: \$196,000

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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Canal Place, Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 26, 2004.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
 COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD
 % Hamilton County Surveyor, Courthouse, Noblesville, IN 46060

In the matter of Canal Place Subdivision,
 Section TWO Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Canal Place S2, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.

FILED

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OFFICE OF HAMILTON COUNTY SURVEYOR



LETTER OF CREDIT NO. CIS401708

PAGE 1

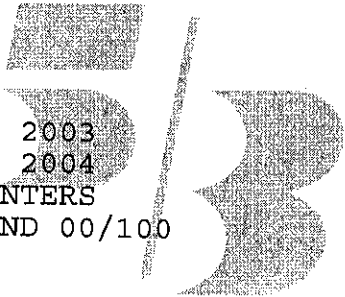
HCDB-2003-00068

ISSUING BANK:
FIFTH THIRD BANK, INDIANA, (CENTRAL)

BENEFICIARY:
HAMILTON COUNTY BOARD OF
COMMISSIONERS
1717 PLEASANT STREET
NOBLESVILLE, IN 46038

APPLICANT:
THE MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256

LETTER OF CREDIT NO: CIS401708
ISSUE DATE: AUGUST 25, 2003
EXPIRATION DATE: AUGUST 25, 2004
EXPIRATION PLACE: AT OUR COUNTERS
AMOUNT: 5,000.00 USD FIVE THOUSAND 00/100



WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. CIS401708 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF MARINA LIMITED PARTNERSHIP, 11691 FALL CREEK ROAD, INDIANAPOLIS, IN 46256 FOR ANY SUM OR SUMS NOT EXCEEDING \$5,000.00, AVAILABLE UPON PRESENTATION BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS, OR ANY EMPLOYEE ACTING UNDER HIS AUTHORITY, OF A LETTER SIGNED BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS ENUMERATING ANY AND ALL IMPROVEMENTS NOT COMPLETED AS REQUIRED FOR MONUMENTATION FOR CANAL PLACE, SECTION 2. THE LETTER SHALL ALSO INDICATE THE ESTIMATED COST OF COMPLETING IMPROVEMENTS.

THE DRAFTS DRAWN UNDER THIS LETTER OF CREDIT MUST STATE, "DRAWN UNDER LETTER OF CREDIT NO. CIS401708 OF FIFTH THIRD BANK, INDIANA, (CENTRAL), DATED AUGUST 25, 2003." THE AMOUNT OF THE DRAFTS MUST BE NOTED ON THE BACK OF THIS LETTER OF CREDIT BY THE NEGOTIATING BANK AND/OR AGENCY.

THIS LETTER OF CREDIT IS EFFECTIVE AS OF AUGUST 25, 2003, AND SHALL EXPIRE ON AUGUST 25, 2004, BUT SUCH EXPIRATION DATE SHALL BE AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR, ON AUGUST

25, 2004, AND ON EACH SUCCESSIVE EXPIRATION DATE, UNLESS A RELEASE IS RECEIVED FROM HAMILTON COUNTY BOARD OF COMMISSIONERS, OR WE NOTIFY BOTH HAMILTON COUNTY BOARD OF COMMISSIONERS AND THE MARINA LIMITED PARTNERSHIP BY CERTIFIED MAIL, AT LEAST SIXTY (60) DAYS BEFORE THE CURRENT EXPIRATION DATE, THAT WE HAVE DECIDED NOT TO EXTEND THIS LETTER OF CREDIT BEYOND THE CURRENT EXPIRATION DATE. IN THE EVENT OF SUCH NOTIFICATION BY US, THE CREDIT ESTABLISHED BY THIS LETTER OF CREDIT SHALL BE AVAILABLE TO HAMILTON COUNTY BOARD OF COMMISSIONERS UPON ITS SIGHT DRAFT OR DEMAND FOR PAYMENT FOR SIXTY (60) DAYS AFTER RECEIPT OF SUCH NOTICE BY HAMILTON COUNTY BOARD OF COMMISSIONERS, AS SHOWN ON THE SIGNED RETURN RECEIPT.

THE CREDIT ESTABLISHED BY THIS LETTER AND OUR OBLIGATION TO PAY SAME SHALL NOT BE AFFECTED BY THE RECEIVERSHIP, BANKRUPTCY OR INSOLVENCY OF THE MARINA LIMITED PARTNERSHIP OR THE ATTACHMENT OF HIS/HER PROPERTY. NOR SHALL THIS CREDIT OR OUR OBLIGATION TO PAY SAME BE AFFECTED BY ANY SECURITY AGREEMENT BETWEEN THE MARINA LIMITED PARTNERSHIP AND OUR BANK AND/OR AGENCY.

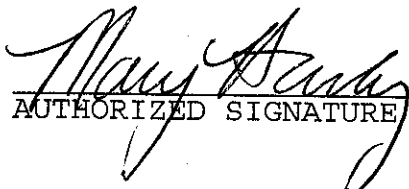
WHENEVER THIS LETTER OF CREDIT IS DRAWN UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS LETTER OF CREDIT, WE SHALL PAY THE AMOUNT OF THE DRAFT DIRECTLY TO HAMILTON COUNTY BOARD OF COMMISSIONERS IN ACCORDANCE WITH ITS INSTRUCTIONS.

ALL BANK CHARGES OTHER THAN THOSE OF FIFTH THIRD BANK ARE FOR THE ACCOUNT OF THE BENEFICIARY.

WE ENGAGE WITH YOU THAT DRAFTS DRAWN UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT WILL BE HONORED IF NEGOTIATED OR PRESENTED DURING BUSINESS HOURS ON OR BEFORE THE EXPIRATION DATE AT: FIFTH THIRD BANK, INTERNATIONAL TRADE SERVICES, 38 FOUNTAIN SQUARE PLAZA, MD10903C, CINCINNATI, OH 45263.

THIS LETTER OF CREDIT IS SUBJECT TO THE INTERNATIONAL STANDBY PRACTICES/ISP98, ICC PUBLICATION NO. 590.


AUTHORIZED SIGNATURE


AUTHORIZED SIGNATURE

FILED

AUG 27 2003

CLERK OF HAMILTON COUNTY, INDIANA



LETTER OF CREDIT NO. CIS401707

PAGE 1

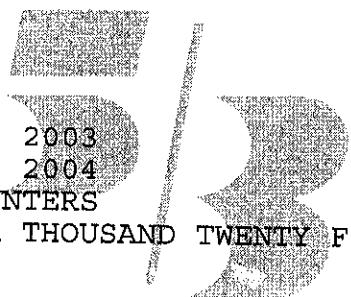
HCDB-2003-00067

ISSUING BANK:
FIFTH THIRD BANK, INDIANA, (CENTRAL)

BENEFICIARY:
HAMILTON COUNTY BOARD OF
COMMISSIONERS
1717 PLEASANT STREET
NOBLESVILLE, IN 46038

APPLICANT:
THE MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256

LETTER OF CREDIT NO: CIS401707
ISSUE DATE: AUGUST 25, 2003
EXPIRATION DATE: AUGUST 25, 2004
EXPIRATION PLACE: AT OUR COUNTERS
AMOUNT: 36,025.00 USD THIRTY SIX THOUSAND TWENTY FIVE 00/100



WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. CIS401707 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF MARINA LIMITED PARTNERSHIP, 11691 FALL CREEK ROAD, INDIANAPOLIS, IN 46256 FOR ANY SUM OR SUMS NOT EXCEEDING \$36,025.00, AVAILABLE UPON PRESENTATION BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS, OR ANY EMPLOYEE ACTING UNDER HIS AUTHORITY, OF A LETTER SIGNED BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS ENUMERATING ANY AND ALL IMPROVEMENTS NOT COMPLETED AS REQUIRED FOR EROSION CONTROL FOR CANAL PLACE, SECTION 2. THE LETTER SHALL ALSO INDICATE THE ESTIMATED COST OF COMPLETING IMPROVEMENTS.

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THIS LETTER OF CREDIT IS SUBJECT TO THE INTERNATIONAL STANDBY PRACTICES/ISP98, ICC PUBLICATION NO. 590.


AUTHORIZED SIGNATURE
AUTHORIZED SIGNATURE

FILED

AUG 27 2003

DEPT. OF HAMILTON COUNTY SURVEYOR



LETTER OF CREDIT NO. CIS401709

PAGE 1

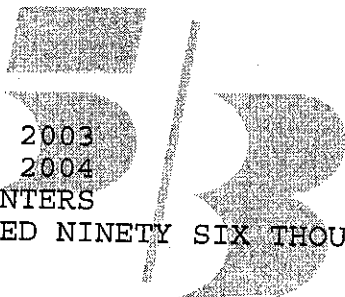
HCDB-2003-00069

ISSUING BANK:
FIFTH THIRD BANK, INDIANA, (CENTRAL)

BENEFICIARY:
HAMILTON COUNTY BOARD OF
COMMISSIONERS
1717 PLEASANT STREET
NOBLESVILLE, IN 46038

APPLICANT:
THE MARINA LIMITED PARTNERSHIP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256

LETTER OF CREDIT NO: CIS401709
ISSUE DATE: AUGUST 25, 2003
EXPIRATION DATE: AUGUST 25, 2004
EXPIRATION PLACE: AT OUR COUNTERS
AMOUNT: 196,900.00 USD ONE HUNDRED NINETY SIX THOUSAND NINE
HUNDRED 00/100



WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. CIS401709 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF MARINA LIMITED PARTNERSHIP, 11691 FALL CREEK ROAD, INDIANAPOLIS, IN 46256 FOR ANY SUM OR SUMS NOT EXCEEDING \$196,000.00, AVAILABLE UPON PRESENTATION BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS, OR ANY EMPLOYEE ACTING UNDER HIS AUTHORITY, OF A LETTER SIGNED BY THE DIRECTOR OF HAMILTON COUNTY BOARD OF COMMISSIONERS ENUMERATING ANY AND ALL IMPROVEMENTS NOT COMPLETED AS REQUIRED FOR STORM SEWER AND SUB-SURFACE DRAINS FOR CANAL PLACE, SECTION 2. THE LETTER SHALL ALSO INDICATE THE ESTIMATED COST OF COMPLETING IMPROVEMENTS.

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LETTER OF CREDIT NO. CIS401709

PAGE 2

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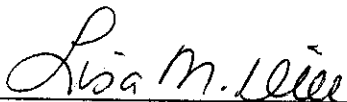
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AUTHORIZED SIGNATURE



AUTHORIZED SIGNATURE

FILED

AUG 27 2003

OFFICE OF HAMILTON COUNTY SURVEYOR

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Canal Place Drain, Section 2 Arm

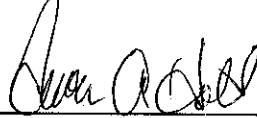
On this *26th day of January 2004*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Canal Place Drain, Section 2 Arm*.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD



President

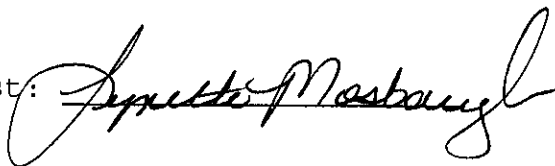


Member



Member

Attest:



BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF
Canal Place Drain, Section 2

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Canal Place Drain, Section 2** on **January 26, 2004** at **9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Canal Place Drain, Section 2 Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **January 26, 2004** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Canal Place - Sec. 2

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: Joseph A. Sharp Date: 6-22-04

Type or Print Name: Joseph A. Sharp, P.E.

Business Address: 7172 Graham Rd.

Indianapolis, IN 46250

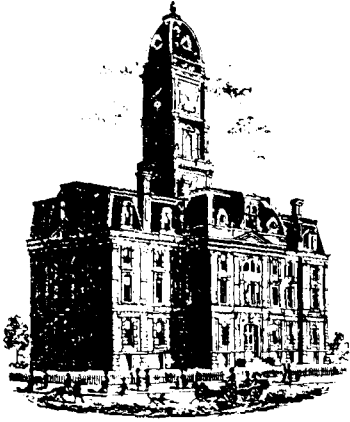
Telephone Number: (317) 842-6777

SEAL

INDIANA REGISTRATION NUMBER

15179





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

March 15, 2005

Re: Canal Place Drain: Canal Place Section 2 Arm

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

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated December 18, 2003. The report was approved by the Board at the hearing held January 26, 2004. (See Drainage Board Minutes Book 7 Pages 315-316)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn	Invert	Grade:	Changes(ft):
731-730	195.38	12	RCP	806.72	804.6	804.6	1.06	-0.49
730-729	51.28	12	RCP	804.6	804.17	804.17	0.84	-3.1
729-728	22.45	15	RCP	804.17	803.8	803.8	1.51	-2.55
728-727	211.33	15	RCP	803.8	785.13	785.13	8.84	25.45
732-729	68.45	12	RCP	804.75	804.2	804.2	0.96	-1.78
726-765ex	113.8	12	RCP	809.49	808.25	808.25	1.09	0.02
735-734	43.4	12	RCP	809.94	809.41	809.41	1.22	-2.78
734-733B	160.9	15	RCP	809.16	785.93	785.93	14.44	-3.16
733B-733A	44.9	15	RCP	785.93	786.16	786.16	1.22	-35.1
718-717	149.6	12	RCP	813.01	811.92	811.92	0.73	-0.33
717-716	31.1	12	RCP	811.92	811.62	811.62	1.03	-0.03
716-715	24.3	15	RCP	811.62	811.46	811.46	0.66	-0.7
715-704	19	18	RCP	811.46	811.3	811.3	0.84	-0.71
711-702	45.5	12	RCP	811.49	809.94	809.94	3.41	-5.71
702-712	64.2	12	RCP	810.63	809.86	809.86	1.22	0.3
713-714	200.3	12	RCP	813.93	812.12	812.12	0.9	-0.31
712-713	127.8	12	RCP	812.03	810.67	810.67	1.06	17.2
709-708	24	15	RCP	815.76	815.54	815.54	0.92	-1.07
708-707	64.1	15	RCP	815.54	814.85	814.85	1.08	0.7
707-706	127.6	24	RCP	814.85	813.61	813.61	0.97	-1.62
706-705	132.2	24	RCP	813.61	812.61	812.61	0.76	3.78
705-704	100.2	24	RCP	812.61	811.22	811.22	1.39	-2.08
704-703	187.8	27	RCP	811.3	809.51	809.51	0.95	3.03

703-702	66.59	27	RCP	809.51	808.55	1.35	-9.68
702-701	131.97	27	RCP	811.3	809.51	17.15	-35.14
701-700	42.43	27	RCP	785.92	785.96	0	-20.72
710-707	88	12	RCP	815.61	814.95	0.75	21.68
742-741	234.2	12	RCP	816.2	814.66	0.64	0.19
741-740	132.4	15	RCP	814.66	814.23	0.32	2.3
740-739	139.8	15	RCP	814.19	813.64	0.39	-2.16
739-738	23	18	RCP	813.59	812.9	3	-2
738-737	113	18	RCP	812.86	797.2	13.86	2.47
737-736	168.2	18	RCP	797.2	785.17	7.15	-9.01

6" SSD Streets:

Harbour Bay Dr	2775
Giselle Way	489.5
Stella Ct	345
Kingdom Ct	851

Totalx2: 8070

RCP Pipe Totals:

12	1413.01
15	824.18
18	323.2
24	360
27	428.79

Total: 3349.18

The length of the drain due to the changes described above is now **11,419.18 feet**.

The non-enforcement was approved by the Board at its meeting on January 26, 2004 and recorded under instrument #200400030781.

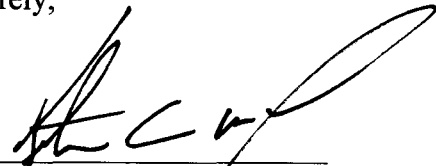
The following sureties were guaranteed by Fifth Third Bank and released by the Board on its August 8, 2005 meeting.

Bond-LC No: CIS401709
Insured For: Storm Sewers
Amount: \$196,900
Issue Date: August 25, 2003

Bond-LC No: CIS401707
Insured For: Erosion Control
Amount: \$ 36,025
Issue Date: August 25, 2003

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

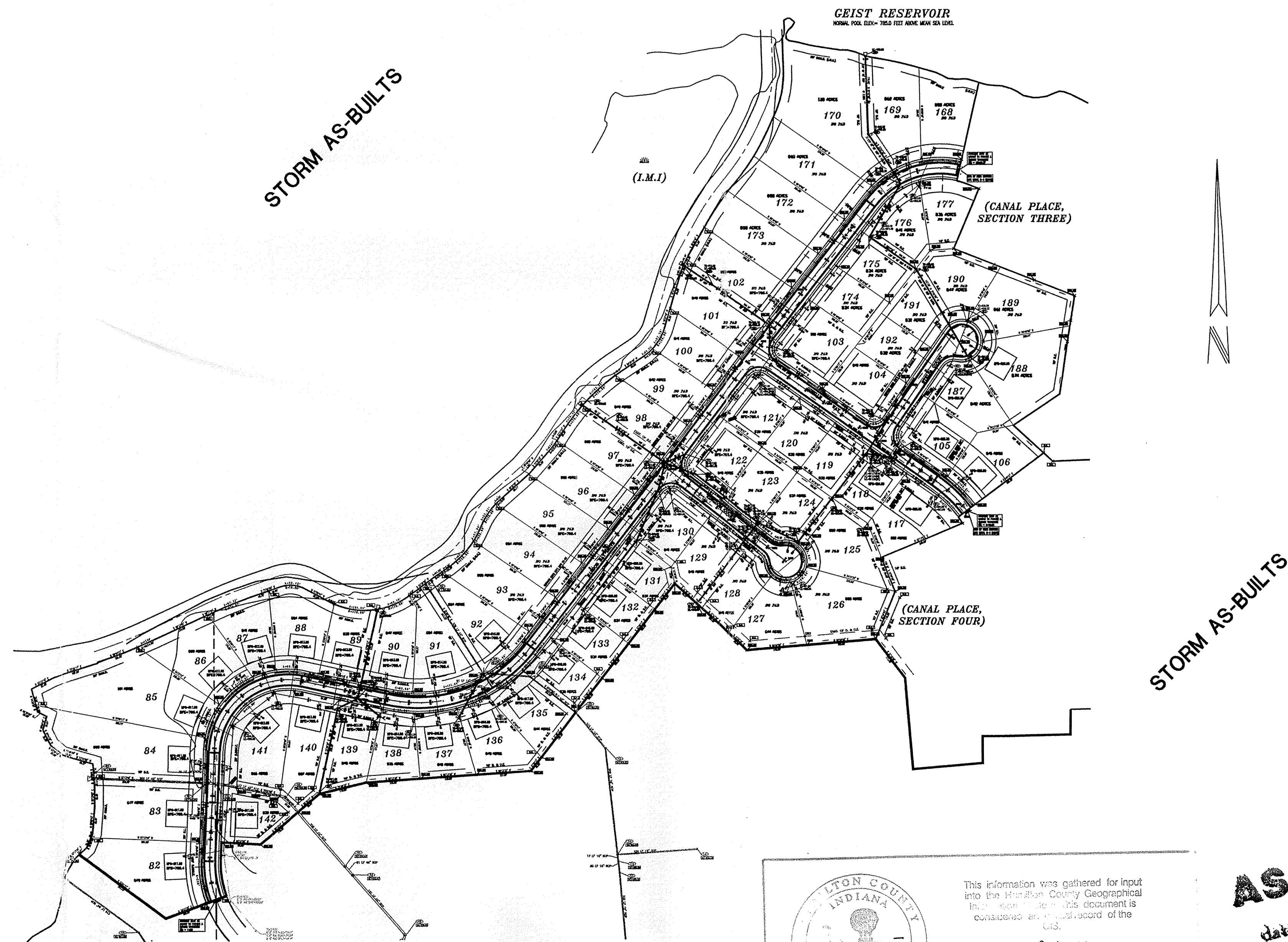
KCW/slm

CONSTRUCTION PLANS FOR CANAL PLACE, SECTION II

Dennis R. Redick, Mayor
City of Noblesville

Developer:
Marina Limited Partnership

Site Engineers / Surveyors
Paul I. Cripe Inc.



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.

Entry Date: 2-6-06
Entered by: SLM

AS BUILT
date 6-21-04
RECORD DRAWING

ROADWAY DESIGN SPEED - 25 MPH

AS-BUILT INDEX	
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CS	COVER SHEET
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C102	EXISTING CONDITIONS PLAN
C103	EXISTING CONDITIONS PLAN
C201	SITE DEVELOPMENT PLAN
C202	SITE DEVELOPMENT PLAN
C203	TRAFFIC CONTROL PLAN
C204	TRAFFIC CONTROL PLAN
C205	EROSION CONTROL PLAN
C206	EROSION CONTROL PLAN
C207	EROSION CONTROL DETAILS
C208	EROSION CONTROL DETAILS
C301	STREET PLAN & PROFILE
C302	STREET PLAN & PROFILE
C303	STREET PLAN & PROFILE
C401	INTERSECTION AND CUL-DE-SAC DETAILS
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C902	STANDARD SPECIFICATIONS
C903	H.C. SURVEYOR'S OFFICE STANDARD DETAILS
C904	H.C.H.D. STANDARD DETAILS

BENCHMARKS	
SITE BENCHMARK: SET ON TOP OF CONTROL POINT REBAR (PIC POINT NO. 651), LOCATED NEAR THE SOUTHEASTLY CORNER OF LOT 97 AND LOCATED 38 FEET ± NORTHWEST OF THE CENTERLINE OF HARBOR BAY DRIVE AND 15 FEET ± SOUTHWEST OF THE CENTERLINE OF KINGDOM COURT. (BASED UPON NAVD 1929 DATUM)	
ELEV.=	818.73

CONTACT CO. / PERSON FOR			
OWNER	MARINA LIMITED PART.	PHONE NO.	FAX NO.
DEVELOPER	MARINA LIMITED PART.	845-0270	845-0766
POWER	C.I.P. ENERGY	845-0270	845-0766
GAS	INDIANA GAS CO.	800-666-3096	
TELEPHONE	HANCOCK RURAL	326-8031	
CABLE	INSIGHT CABLE	776-0660	773-5439
WATER	INDPLS. WATER CO.	327-5772	
CO.SURVEYOR	KENT WARD	776-8495	776-9628
PLANNING	STEVE HUNTLEY	773-4614	776-6363
TRAFFIC	HAM CTY HWY	773-7770	776-9614
SANITARY	HAM SOUTHEASTERN UTIL.	577-2300	
DRAINAGE	HAM CO SURV	776-8495	
EROSION	HAM CO SWCD	773-1406	

DON'T DIG BLIND	1-800-382-5544	CALL TOLL FREE
	1-800-428-5200	FOR CALLS OUTSIDE OF INDIANA

PAUL I. CRIFE TEAM	317-842-6777	FAX-841-4798
PROJECT MANAGER	BRUCE HAGEN	661
PROJECT ENGINEER	JOE SHARP	675
PROJECT SURVEYOR	DENNIS SINGER	635
PROJECT LAND PLANNER	BILL DANKERT	642
ENGINEERING ASSOCIATE	RUDY TAVAREZ	720
QUALITY ASSURANCE	TOM SCHELLENBERGER	622

DWG. TYPE	FILE NUMBER
	9938420000

Revision	Mark	Description	Date

ARCHITECTS
ENGINEERS
LANDSCAPE ARCHITECTS
LAND PLANNERS
TRANSPORTATION ENGINEERS
LAND SURVEYORS

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
842-6777 FAX (317) 841-4798
E-Mail at picripe@picripe.com
(317)

CRIFE

COVERSHEET
CANAL PLACE, SECTION TWO
MARINA LIMITED PARTNERSHIP
11691 FALL CREEK RD.
INDIANAPOLIS, IN 46256
PHONE: (317)-845-0270 FAX: (317)-845-0766

CERTIFIED BY:
Joseph A. Sharp

REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA

Drawn By:
AS-BUILT BY: CMQ 5/21/04

Checked By:

Quality Assurance:

Scale: 0 Scale: 1" = 100'

Sheet
CS

Date
02-07-02

Project Number
990384-20000

GRADING NOTES:

1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
2. ALL TOPSOIL SHALL BE PLACED IN MOUNDING AREAS AND NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS TO BE SEEDING SUCH AS LAKE SLOPES, MOUND AREAS, AREAS BETWEEN CURBS AND CLEARING LIMITS, AND ALL DISTURBED AREAS OUTSIDE OF BUILDING AND PARKING AREAS.
3. STRAW BALE DAMS, SEDIMENT PITS AND SILT FENCES SHALL BE UTILIZED TO CONTROL EROSION. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO MAJOR EARTHWORK, WITHIN THE PROPOSED CONSTRUCTION LIMITS.
5. THE BASE FLOOD ELEVATION (BFE) FOR THIS PROJECT HAS BEEN DETERMINED TO BE 788.40 FEET. THE MINIMUM FINISHED FLOOR ELEVATION INCLUDING BASEMENTS, MUST BE TWO (2) FEET ABOVE THE BFE.
6. SEE STREET PLAN & PROFILE SHEET FOR ADDITIONAL GRADES ON STREET.
7. THE INTENT OF THESE PLANS IS TO USE ALL EXCESS FILL MATERIAL ONSITE. BORROW PITS IN NONSTRUCTURAL FILL AREAS MAY BE UTILIZED TO OBTAIN SUITABLE FILL MATERIAL AND TO DISPOSE OF TOPSOIL.
8. BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS FOR BUILDING AREAS AND STREETS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
9. CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. OWNER AND OWNER'S REPRESENTATIVE SHALL BE CONSULTED FOR CLEARING LIMITS. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN STREET AREAS, UTILITY INSTALLATION LIMITS AND CUT FILL AREAS.
10. EARTHWORK BALANCE - THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND THE ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
11. MINOR ADJUSTMENTS TO THE GRADES MAY BE REQUIRED TO OBTAIN EARTHWORK BALANCES WHEN MINOR EXCESS MATERIAL OR SHORTAGES ARE ENCOUNTERED. IT IS RECOGNIZED BY THE PARTIES HERETO THAT THE CALCULATIONS OF THE ENGINEER IN DETERMINING EARTHWORK QUANTITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARDS FOR SUCH CALCULATIONS. FURTHER, THAT THESE CALCULATIONS ARE SUBJECT TO THE INTERPRETATIONS OF SUCH ENGINEER AS THE PHYSICAL LIMITS OF THE VARIOUS SOIL TYPES ALSO ALLOWABLE VARIATION IN FINISH GRADE AND PARAMETERS MAY CAUSE EITHER AN EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS TO COMPLETE THE PROJECT. IF SUCH AN ACTUAL MINOR EXCESS OR SHORTAGE OF MATERIALS OCCURS, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO DETERMINE IF ADJUSTMENTS CAN BE MADE TO CORRECT THE IMBALANCE OF EARTH.
12. SPOT ELEVATIONS - IF DURING THE CONSTRUCTION OR SURVEY LAYOUT PROCESS IT IS DETERMINED THAT THERE ARE INSUFFICIENT SPOT ELEVATIONS TO PROPERLY CONSTRUCT THE PROJECT OR THE DESIGN GRADES APPEAR TO BE TOO STEEP OR FLAT FOR ONSITE CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY TO ADJUST OR ADD ADDITIONAL ELEVATIONS AS REQUIRED.
13. THE MINIMUM PAD GRADE (MPG) IS THE FINISHED GRADE ELEVATION ADJACENT TO THE BUILDING, TEN (10) FEET AWAY FROM THE BUILDING. THE ELEVATION SHALL BE SIX (6) INCHES LESS THAN THE MPG TO INSURE PROPER DRAINAGE AWAY FROM THE BUILDING. ELEVATIONS AT THE SITE W/MPG PROVIDES FOR PROPER DRAINAGE TO THE STREET OR YARD GRADES. IT IS IMPORTANT THAT THESE ELEVATIONS BE PROPERLY CONSTRUCTED AND MAINTAINED FOR PROPER DRAINAGE. PAUL I. CRIFE, INC. WILL NOT BE RESPONSIBLE FOR INADEQUATE CONSTRUCTION OR MAINTENANCE OF GRADES AS SHOWN ON THESE PLANS.
14. TOPOGRAPHIC AND PLANIMETRIC INFORMATION FROM PHOTOGRAPHIC COMPILATION BY OTHERS. ACCURACY HAS NOT BEEN TOTALLY CONFIRMED BY PAUL I. CRIFE, INC. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

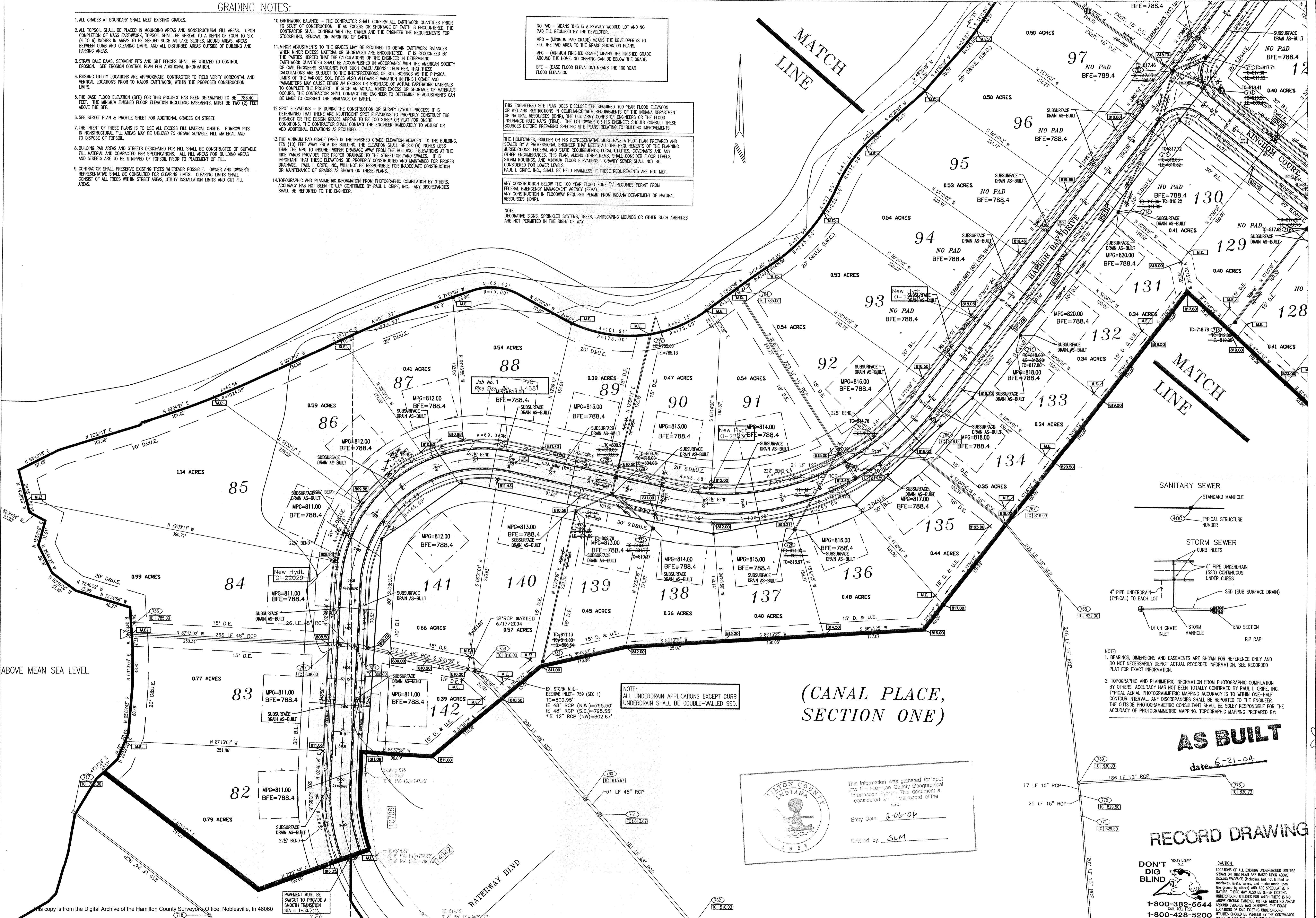
NO PAD - MEANS THIS IS A HEAVILY WOODED LOT AND NO PAD FILL REQUIRED BY THE DEVELOPER.
 MPG - MINIMUM PAD GRADE MEANS THE DEVELOPER IS TO FILL THE PAD AREA TO THE GRADE SHOWN ON PLANS.
 MFG - MINIMUM FINISHED GRADE MEANS THE FINISHED GRADE AROUND THE HOME. NO OPENING CAN BE BELOW THE GRADE.
 BFE - (BASE FLOOD ELEVATION) MEANS THE 100 YEAR FLOOD ELEVATION.

THIS ENGINEER'S SITE PLAN DOES DISCLOSE THE REQUIRED 100 YEAR FLOOD ELEVATION OR WETLAND RESTRICTIONS IN COMPLIANCE WITH REQUIREMENTS OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES (INDR), THE U.S. ARMY CORPS OF ENGINEERS OR THE FLOOD INSURANCE RATE MAPS (FIRM). THE LOT OWNER OR HIS ENGINEER SHOULD CONSULT THESE SOURCES BEFORE PREPARING SPECIFIC SITE PLANS RELATING TO BUILDING IMPROVEMENTS.

THE HOMEOWNER, BUILDER OR HIS REPRESENTATIVE MUST HAVE A PLOT PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER THAT MEETS ALL THE REQUIREMENTS OF THE PLANNING JURISDICTIONS, FEDERAL AND STATE REQUIREMENTS, LOCAL UTILITIES, COVENANTS AND ANY OTHER INSTRUMENTS. THIS PLAN, AMONG OTHER ITEMS, SHALL CONSIDER FLOOR LEVELS, STORM ROUTINGS, AND MINIMUM FLOOR ELEVATIONS. GRAVITY SEWER SHALL NOT BE CONSIDERED FOR LOWER LEVELS.
 PAUL I. CRIFE, INC., SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.

ANY CONSTRUCTION BELOW THE 100 YEAR FLOOD ZONE "A" REQUIRES PERMIT FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ANY CONSTRUCTION IN FLOODWAY REQUIRES PERMIT FROM INDIANA DEPARTMENT OF NATURAL RESOURCES (INDR).

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.



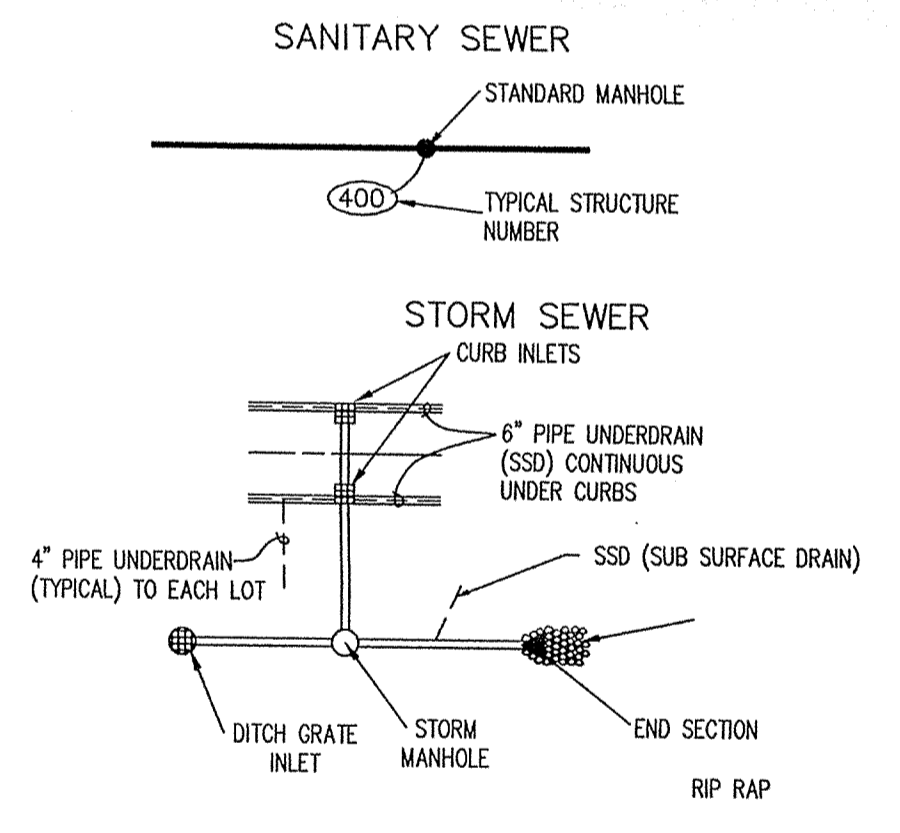
ABOVE MEAN SEA LEVEL

(CANAL PLACE, SECTION ONE)

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

Entry Date: 2-06-04

Entered by: SLM



NOTE:
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 2. TOPOGRAPHIC AND PLANIMETRIC INFORMATION FROM PHOTOGRAPHIC COMPILATION BY OTHERS. ACCURACY HAS NOT BEEN TOTALLY CONFIRMED BY PAUL I. CRIFE, INC. TYPICAL AERIAL PHOTOGRAMMETRIC MAPPING ACCURACY IS TO WITHIN ONE-HALF CONTOUR INTERVAL. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE OUTSIDE PHOTOGRAMMETRIC CONSULTANT SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF PHOTOGRAMMETRIC MAPPING. TOPOGRAPHIC MAPPING PREPARED BY:

AS BUILT
 date 6-21-04

RECORD DRAWING

DON'T DIG BLIND

CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, labels, valves, and marks 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 SUCH EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
 1-800-428-5200
 FOR CALLS OUTSIDE OF INDIANA

CRIFE

ARCHITECTS
 ENGINEERS
 LANDSCAPE ARCHITECTS
 LAND SURVEYORS
 LAND TRANSPORTATION ENGINEERS
 LAND PLANNERS
 LAND SURVEYORS

7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 842-8777 FAX (317) 841-4798
 E-Mail at picrife@picrife.com

SITE DEVELOPMENT PLAN
 CANAL PLACE, SECTION TWO
 MARINA LIMITED PARTNERSHIP
 11691 FALL CREEK RD.
 INDIANAPOLIS, IN 46256
 PHONE: (317) 945-9270 FAX: (317) 945-0768

CERTIFIED BY:
 Joseph A. Sharp
JOSEPH A. SHARP
 REGISTERED
No. 15179
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 6.2.04

Drawn by: AS-BUILT BY: CMO 5/21/04
 Checked by:
 Quality Assurance:
 Scale: 1" = 50'
 Sheet: **C201**
 Date: 02-07-02
 Project Number: 990384-20000

NORMAL POOL ELEV.= 785.0 FEET ABOVE MEAN SEA LEVEL

(I.M.I.)

(CANAL PLACE, SECTION THREE)

SEE SHEET C201
STRUCTURE DATA TABLE

THIS ENGINEERED SITE PLAN DOES DISCLOSE THE REQUIRED 100 YEAR FLOOD ELEVATION OR WETLAND RESTRICTIONS IN COMPLIANCE WITH REQUIREMENTS OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES (INDR), THE U.S. ARMY CORPS OF ENGINEERS OR THE FLOOD INSURANCE RATE MAPS (FIRM). THE LOT OWNER OR HIS ENGINEER SHOULD CONSULT THESE SOURCES BEFORE PREPARING SPECIFIC SITE PLANS RELATING TO BUILDING IMPROVEMENTS.

THE HOMEOWNER, BUILDER OR HIS REPRESENTATIVE MUST HAVE A PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER THAT MEETS ALL THE REQUIREMENTS OF THE PLANNING JURISDICTIONS, FEDERAL AND STATE REQUIREMENTS, LOCAL UTILITIES, COVENANTS AND ANY OTHER ENCUMBRANCES. THIS PLAN, AMONG OTHER ITEMS, SHALL CONSIDER FLOOR LEVELS, STORM ROUTINGS, AND MINIMUM FLOOR ELEVATIONS. GRAVITY SEWER SHALL NOT BE CONSIDERED FOR LOWER LEVELS. PAUL L. CRIFE, INC., SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.

ANY CONSTRUCTION BELOW THE 100 YEAR FLOOD ZONE "X" REQUIRES PERMIT FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ANY CONSTRUCTION IN FLOODWAY REQUIRES PERMIT FROM INDIANA DEPARTMENT OF NATURAL RESOURCES (INDR).

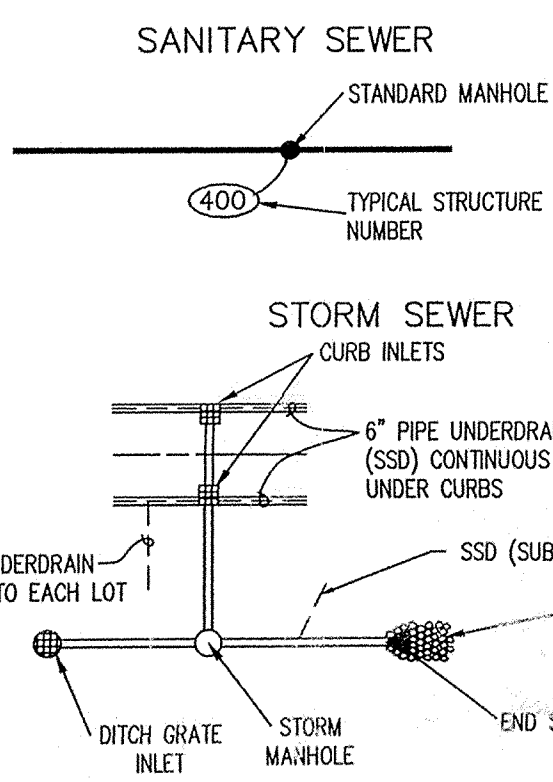
NOTE:
1. DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

NOTE:
TOP OF CASTING ELEVATIONS FOR CURB INLETS ARE LOCATED AT THE TOP OF CURB ELEVATION WHILE TOP OF CASTING ELEVATIONS FOR YARD GRATE CASTINGS ARE LOCATED AT THE FLOW LINE.

NOTE:
1. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.

2. TOPOGRAPHIC AND PLANNING INFORMATION FROM PHOTOGRAPHIC COMPILATION BY OTHERS. ACCURACY HAS NOT BEEN TOTALLY CONFIRMED BY PAUL L. CRIFE, INC. TYPICAL AERIAL PHOTOGRAMMETRIC MAPPING ACCURACY IS TO WITHIN ONE-HALF CONTOUR INTERVAL. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE OUTSIDE PHOTOGRAMMETRIC CONSULTANT SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF PHOTOGRAMMETRIC MAPPING. TOPOGRAPHIC MAPPING PREPARED BY:

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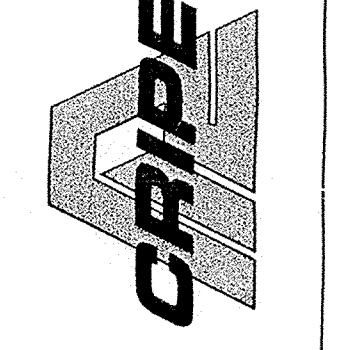


SEE SHEET C201
FOR GRADING NOTES

Revision	Date	Description
1	07/11/03	REVISIONS PER THE COMMENTS
2	08/22/03	REVISIONS PER THE COMMENTS

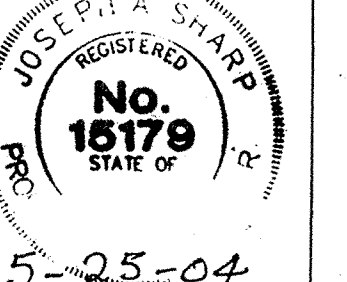
ARCHITECTS
ENGINEERS
ENVIRONMENTAL CONSULTANTS
TRANSPORTATION ENGINEERS
LAND SURVEYORS

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
842-6777
E-Mail: paul@pccrife.com



SITE DEVELOPMENT PLAN
CANAL PLACE, SECTION TWO
MARINA LIMITED PARTNERSHIP
11691 FALL CREEK RD.
INDIANAPOLIS, IN 46256
PHONE: (317) 845-0270

CERTIFIED BY:
Joseph A. Shupe



5-25-04
Drawn by: AS-BUILT BY: CNO 5/21/04
Checked by:

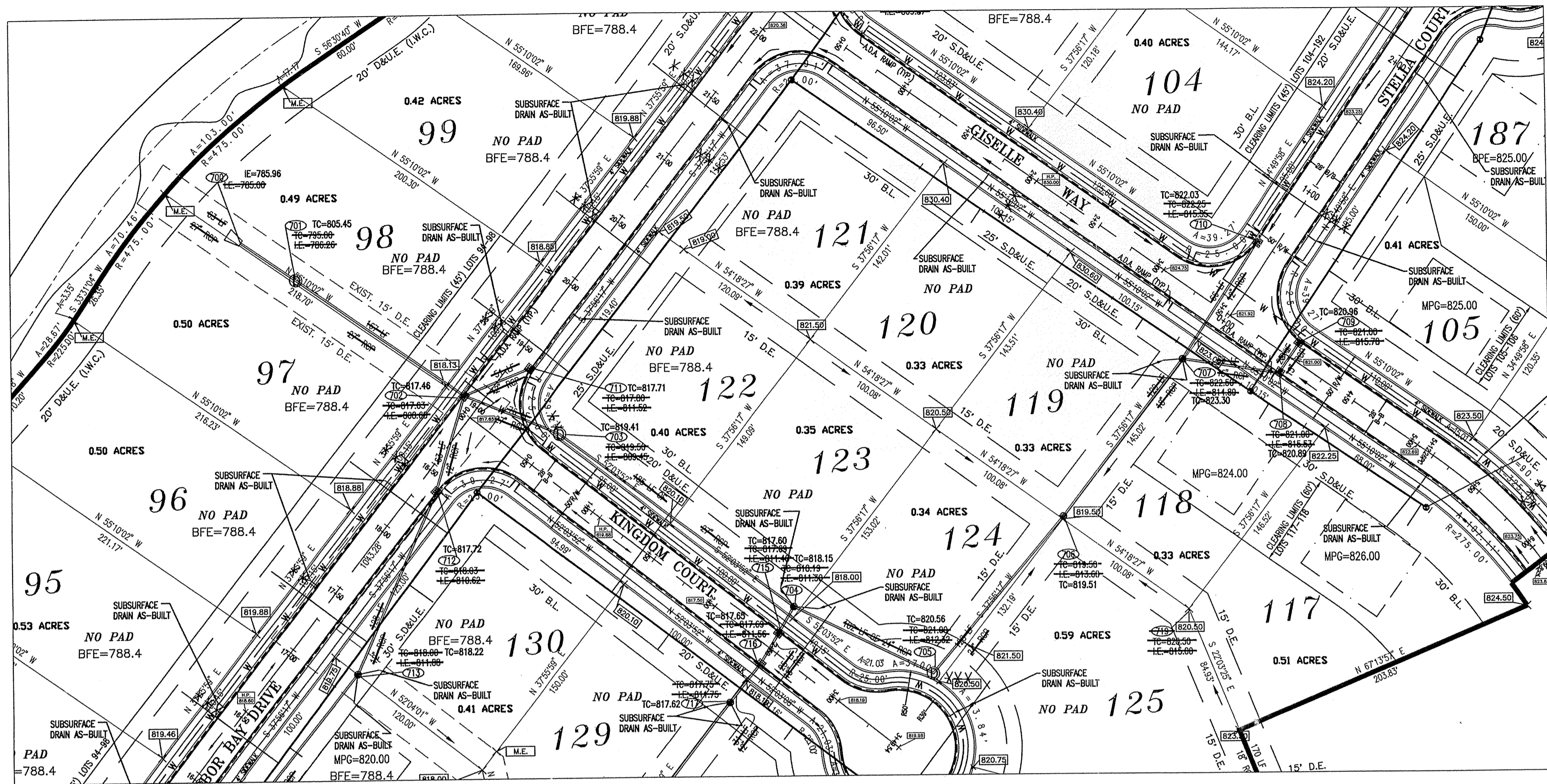
Scale: 1" = 50'
C202
Date: 02-07-02
Project Number: 990384-20000

AS BUILT
date 6-21-04

(CANAL PLACE, RECORD DRAWING SECTION FOUR)

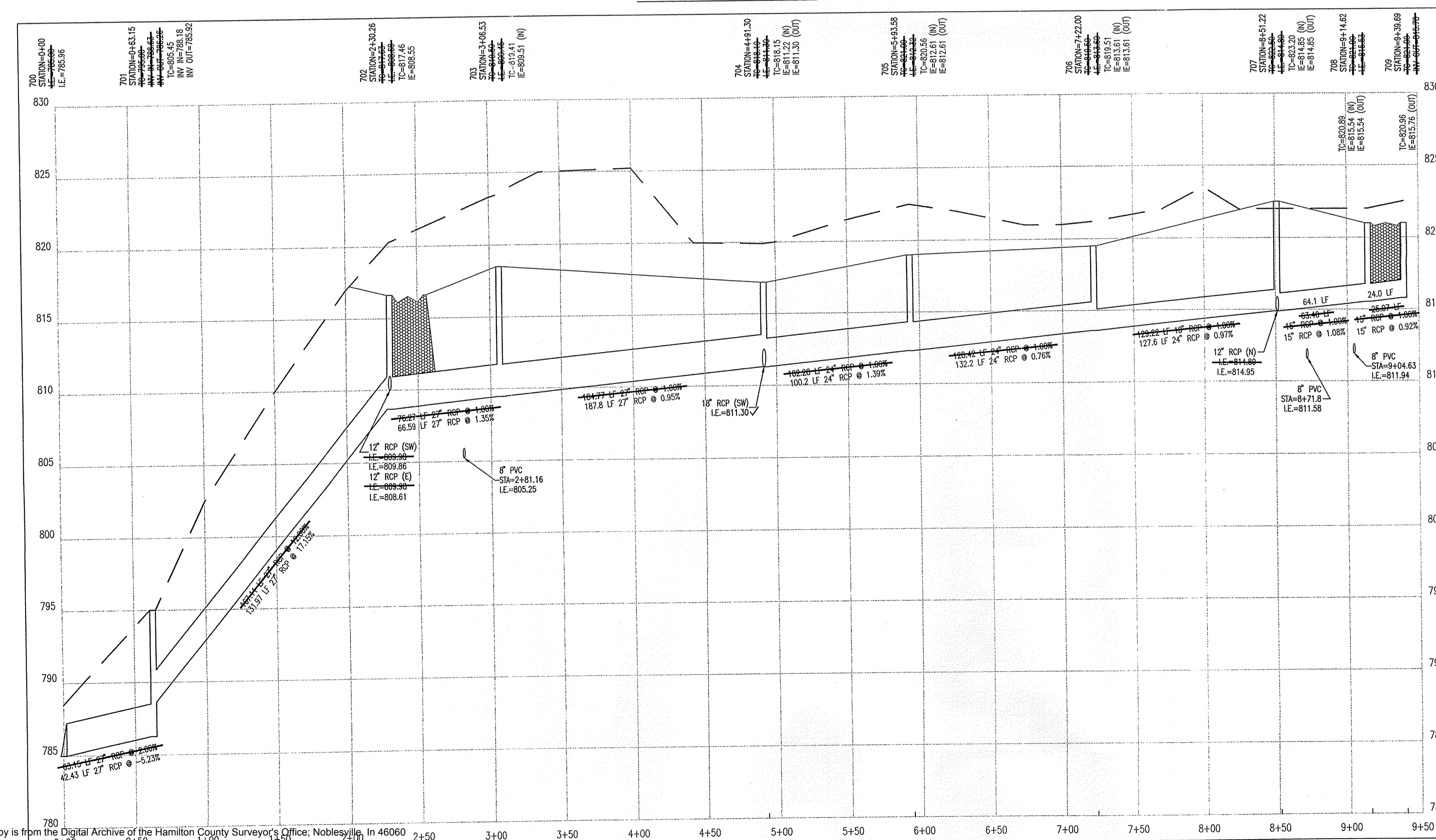
DON'T DIG BLIND
CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND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

1-800-382-5544
1-800-428-6200
FOR CALLS OUTSIDE OF INDIANA

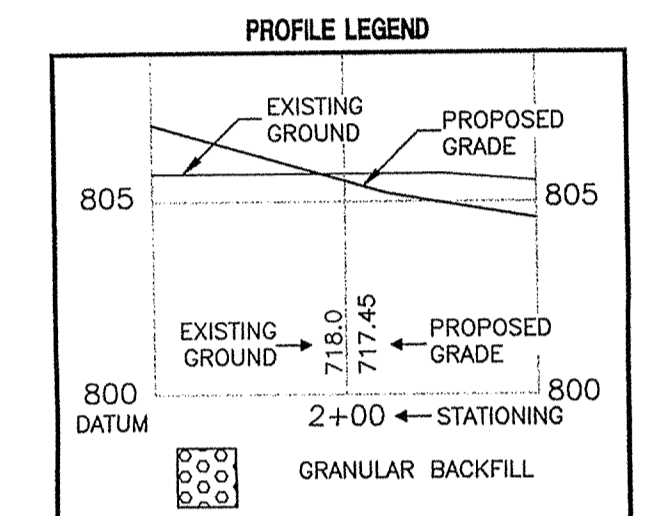


PLAN ONE

PROFILE ONE



- STORM SEWER PLAN AND PROFILE NOTES:**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE FLOWED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
 - STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
 - STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
 - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
 - SEE SECTION 02720 FOR STORM SEWERAGE SPECIFICATIONS A) IN THE PROJECT MANUAL OR B) ON SHEET C807.
 - PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
 - THE CONNECTION OF THE PROPOSED STORM SEWER TO AN EXISTING BRICK STRUCTURE MUST BE DONE ACCORDING TO THE FOLLOWING CONDITIONS:
 - REHABILITATE AND COAT THE ENTIRE INTERIOR OF THE MANHOLE WITH NON-SHRINK GROUT.
 - AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX INCH (6") THICK, 4,000 PSI CONCRETE COLLAR WITH 4x4x10 GAUGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
 - ONCE THE CORE HAS BEEN MADE, INSTALL A RUBBER BOOT.



HAMILTON COUNTY INDIANA

This drawing is intended for input into the GIS system. The geospatial information contained herein is the property of the Hamilton County Surveyor's Office.

Entry Date: 2-6-06

Entered by: SIM

AS BUILT
date 6-21-04
RECORD DRAWING

DON'T DIG BLIND

"HOLEY MOLEY" SEZ

1-800-382-5544
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1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

CAUTION

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 MARKS 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 SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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LAND SURVEYORS
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LAND PLANNERS
LAND SURVEYORS

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
842-6777
E-Mail at pcrpe@pcrpe.com
(317) 841-4798

CRPE

STORM PLAN AND PROFILE
CANAL PLACE, SECTION TWO
MARINA LIMITED PARTNERSHIP
11691 FALL CREEK RD.
INDIANAPOLIS, IN 46256
PHONE: (317) 845-0720 FAX: (317) 845-0766

CERTIFIED BY: *Joseph A. Sharp*

REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA

5-25-04

Drawn By: AS-BUILT BY: CMQ 5/21/04
Checked By:

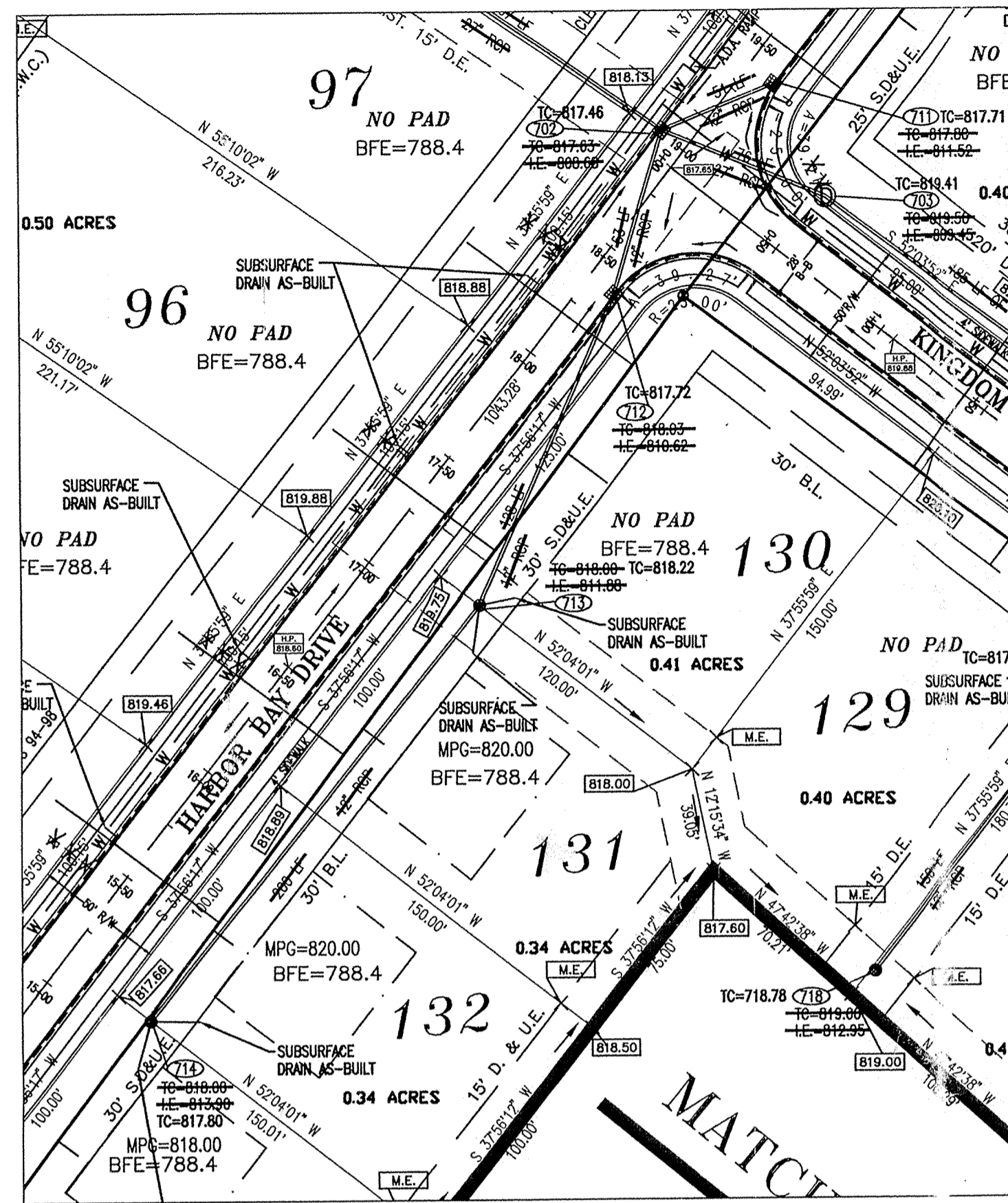
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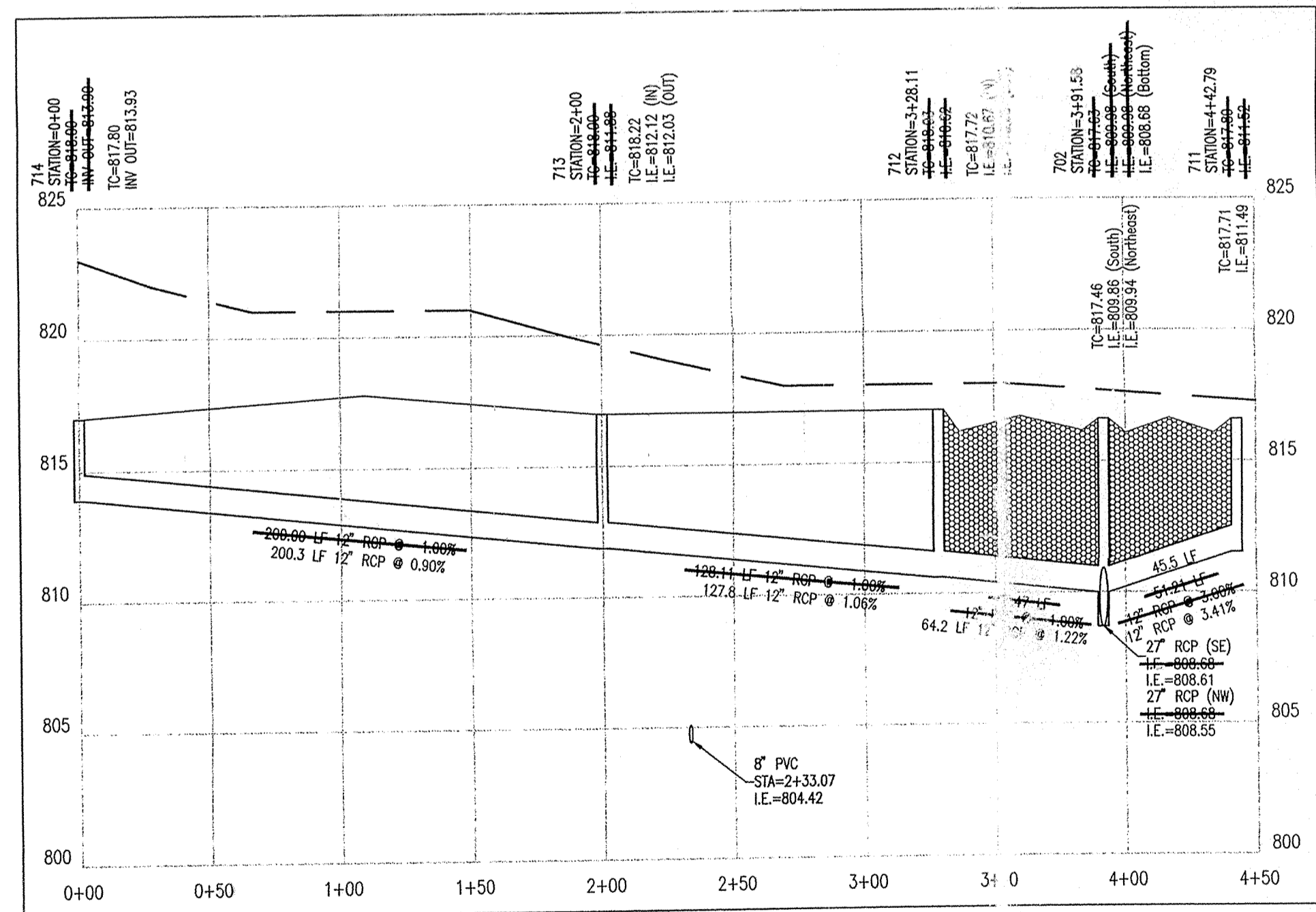
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Date: 02-07-02
Project Number: 990384-20000

PLAN FOUR

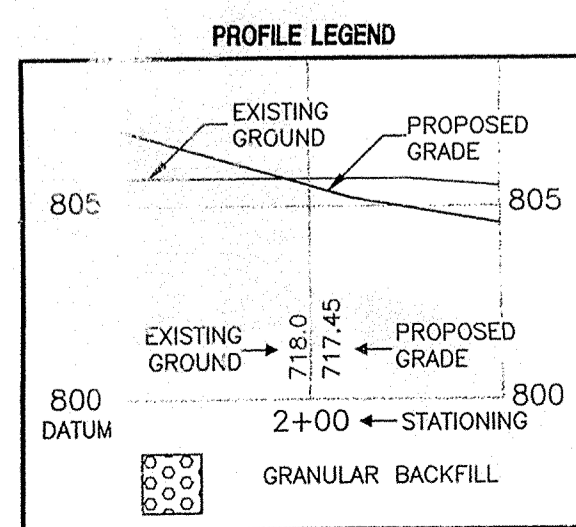


PROFILE FOUR

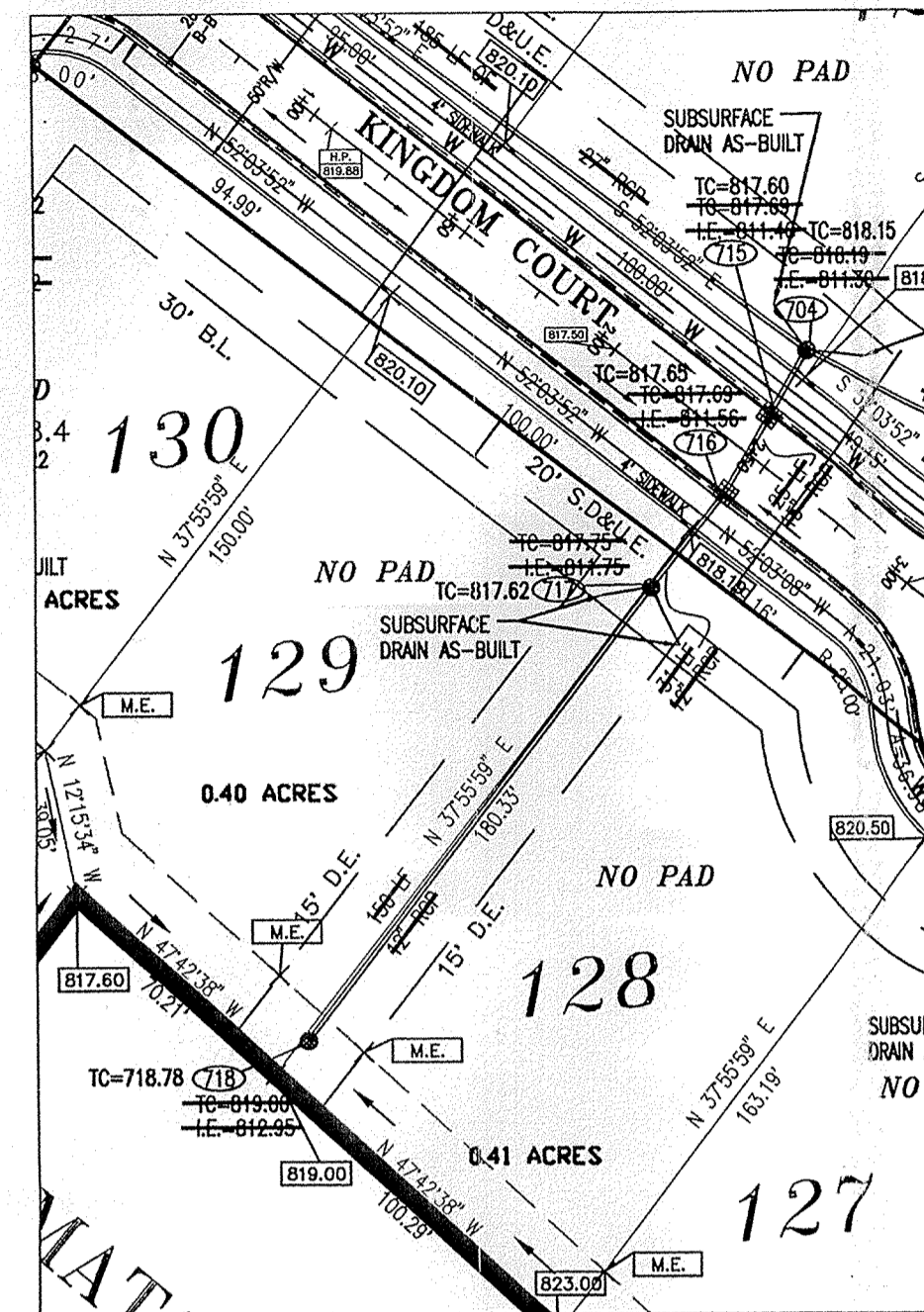


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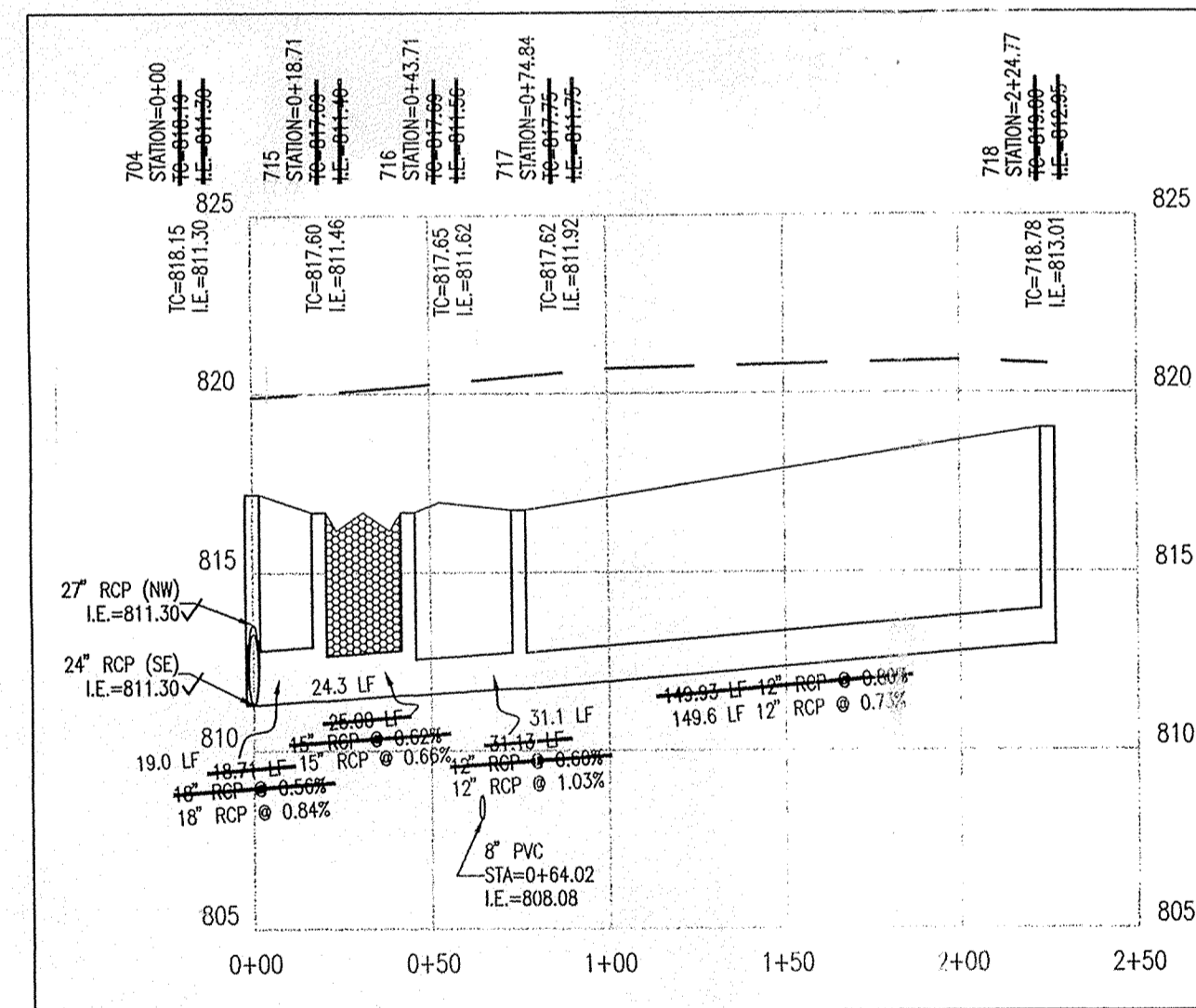
CAUTION
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PLAN FIVE



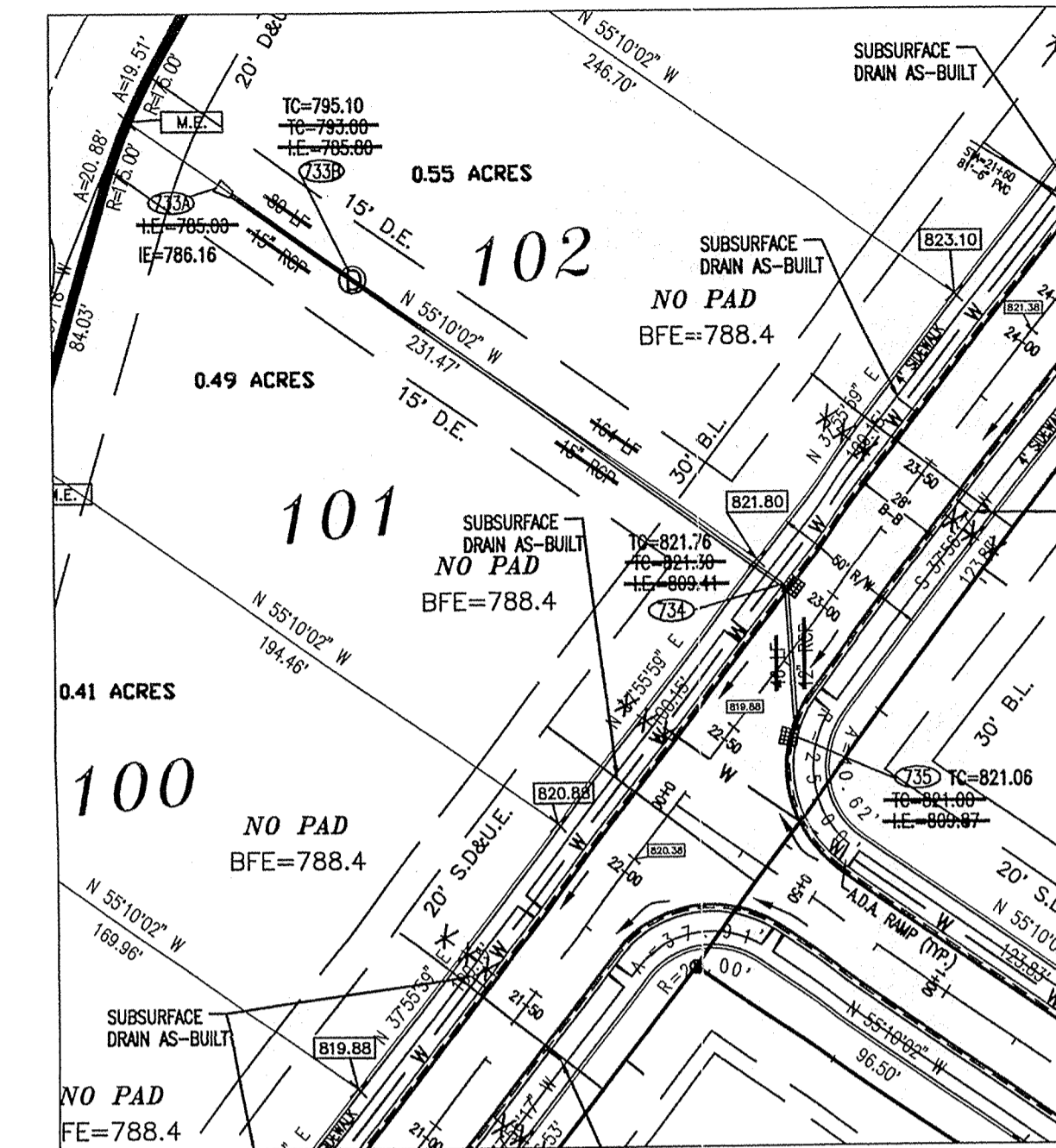
PROFILE FIVE



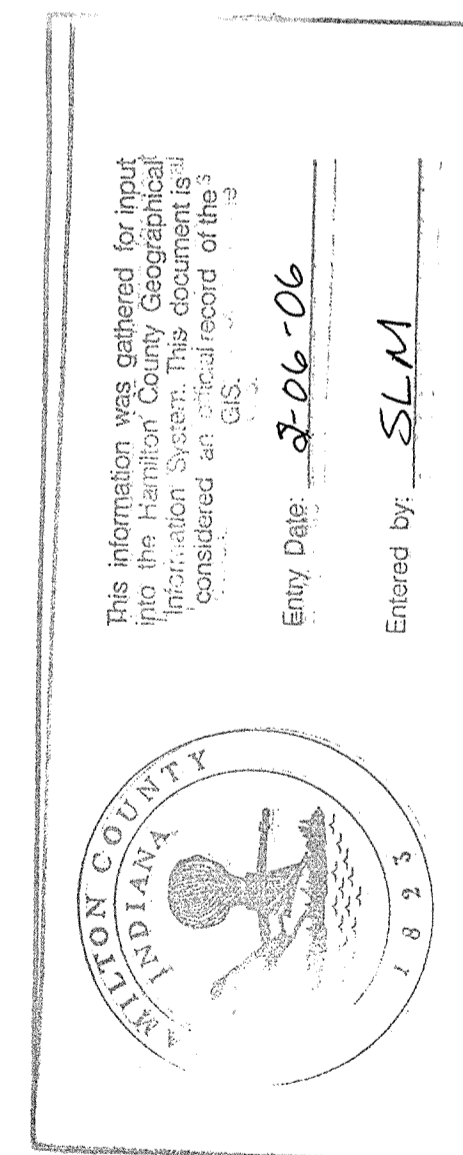
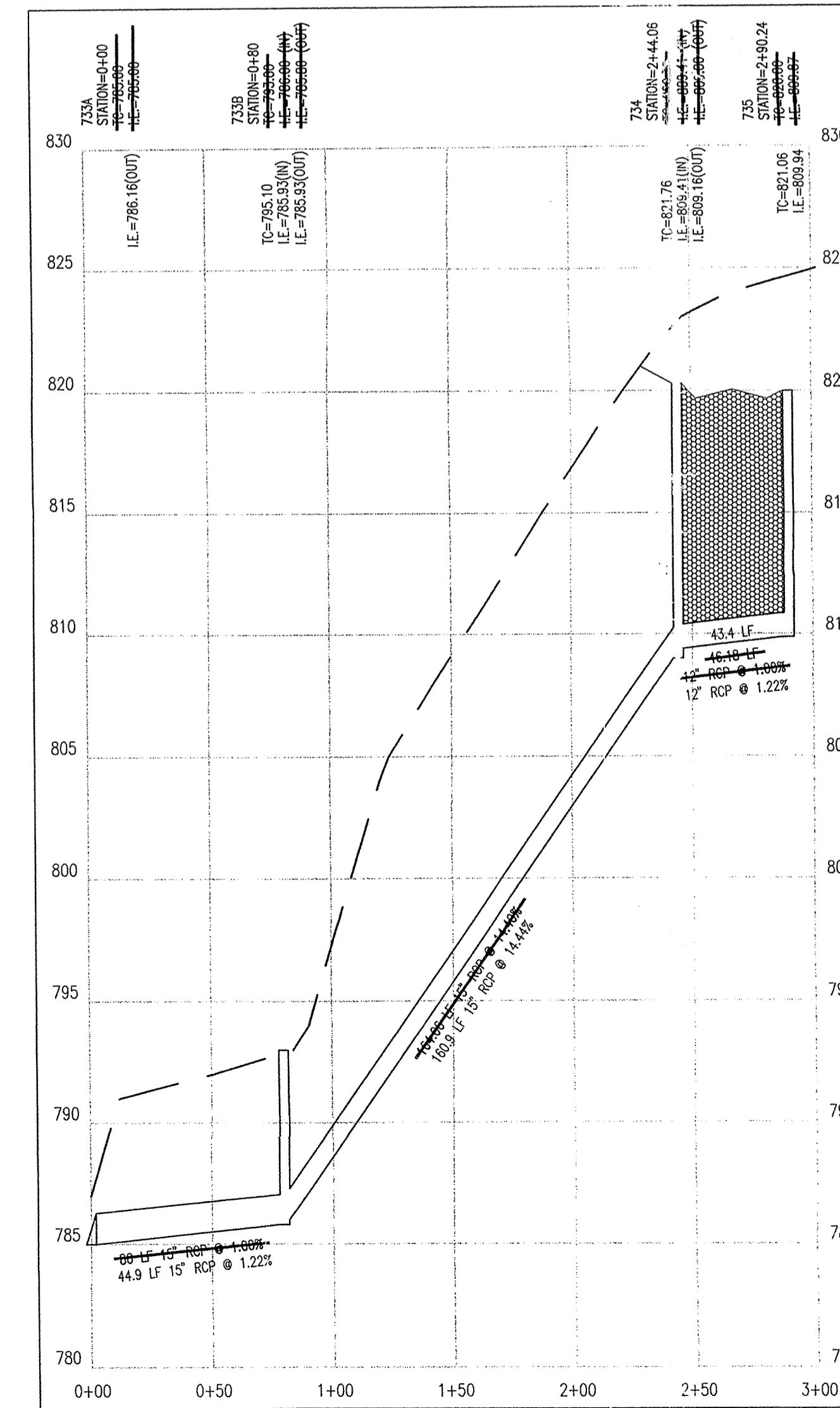
STORM SEWER PLAN AND PROFILE NOTES:

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- FIELD ADJUSTMENTS OF TOP OF CASTING (T.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE.
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- SEE SECTION 02270 FOR STORM SEWERAGE SPECIFICATIONS A) IN THE PROJECT MANUAL OR B) ON SHEET C907
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 B) AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX INCH (6") THICK, 4,000 PSI CONCRETE COLLAR WITH 4x4x10 GAUGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
 C) ONCE THE CORE HAS BEEN MADE, INSTALL A RUBBER BOOT.

PLAN SIX



PROFILE SIX

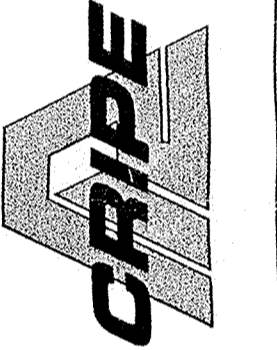


AS BUILT
 Date: 6-21-04

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 LAND SURVEYORS

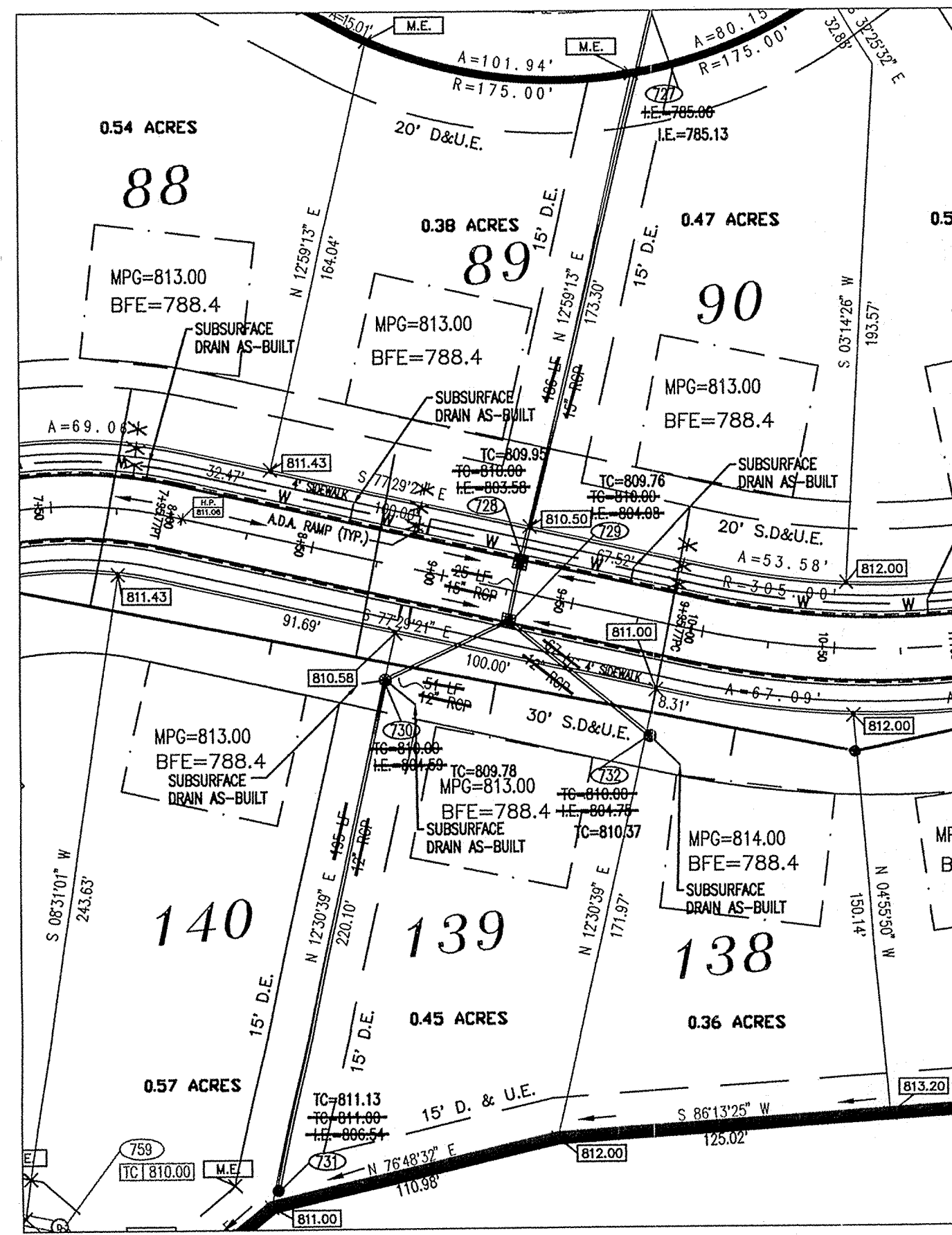
7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 842-6777 FAX (317) 641-4798
 E-Mail at picrpe@picrpe.com



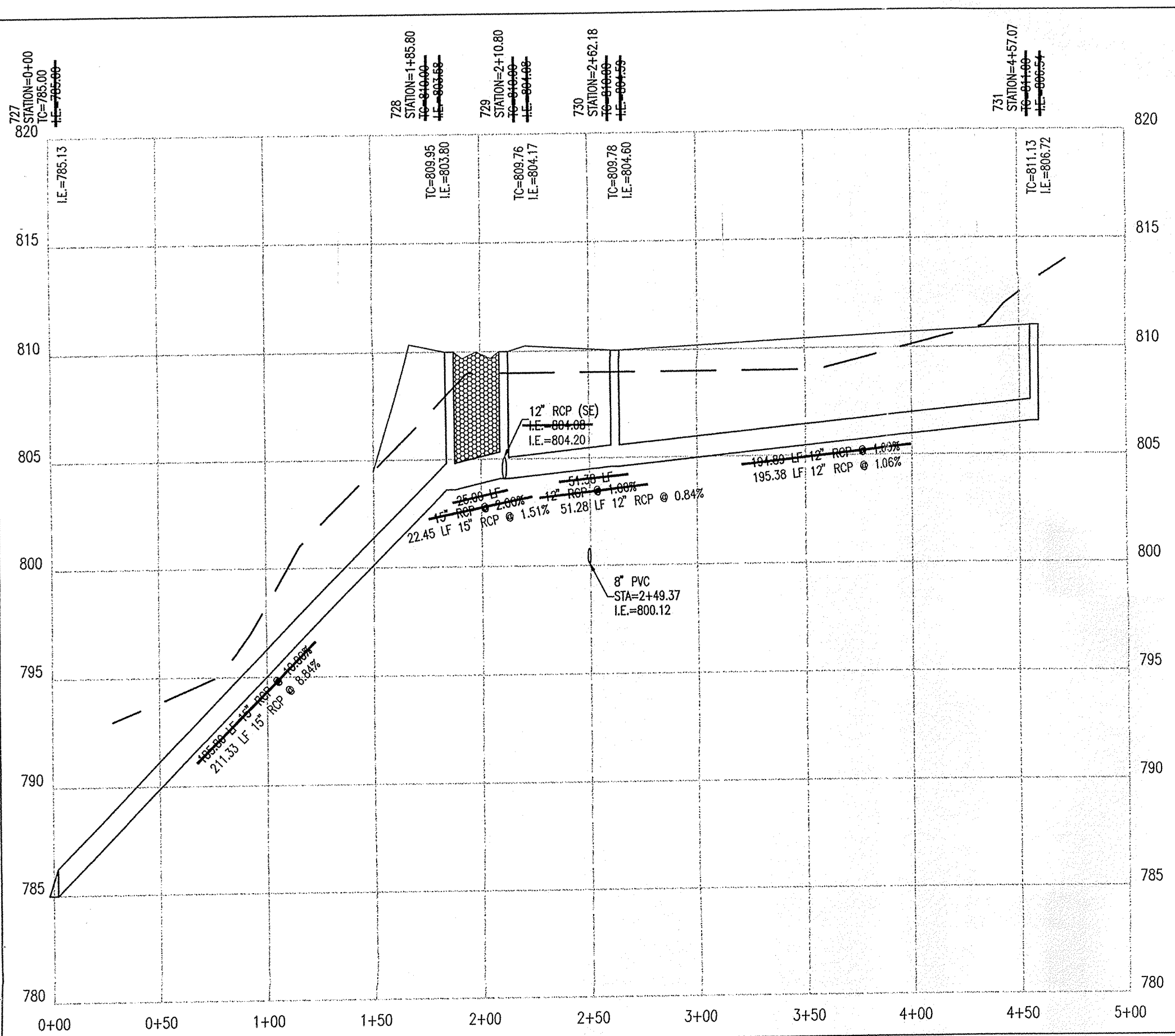
STORM PLAN AND PROFILE
CANAL PLACE, SECTION TWO
MARINA LIMITED PARTNERSHIP
 11691 FALL CREEK RD.
 INDIANAPOLIS, IN 46256
 PHONE: (317) 845-0270 FAX: (317) 845-0765

DESIGNED BY: Joseph A. Shaw
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 State of Indiana
 5-25-84
 DRAWN BY: AS-BUILT BY: CAQ 5/21/04
 CHECKED BY:
 QUALITY ASSURANCE:
 SCALE: 1" = 50'
 SHEET: C702
 DATE: 02-07-02
 PROJECT NUMBER: 990384-20000

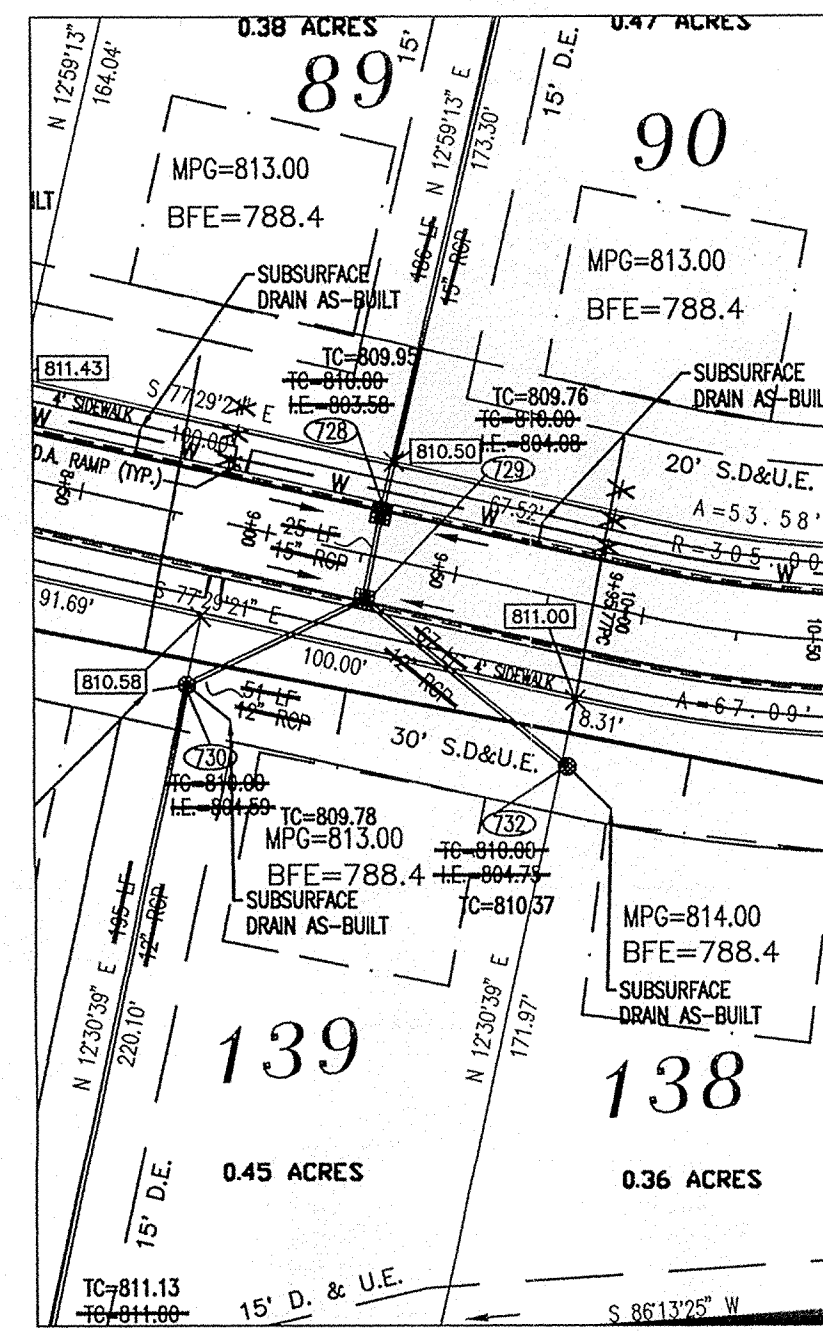
PLAN SEVEN



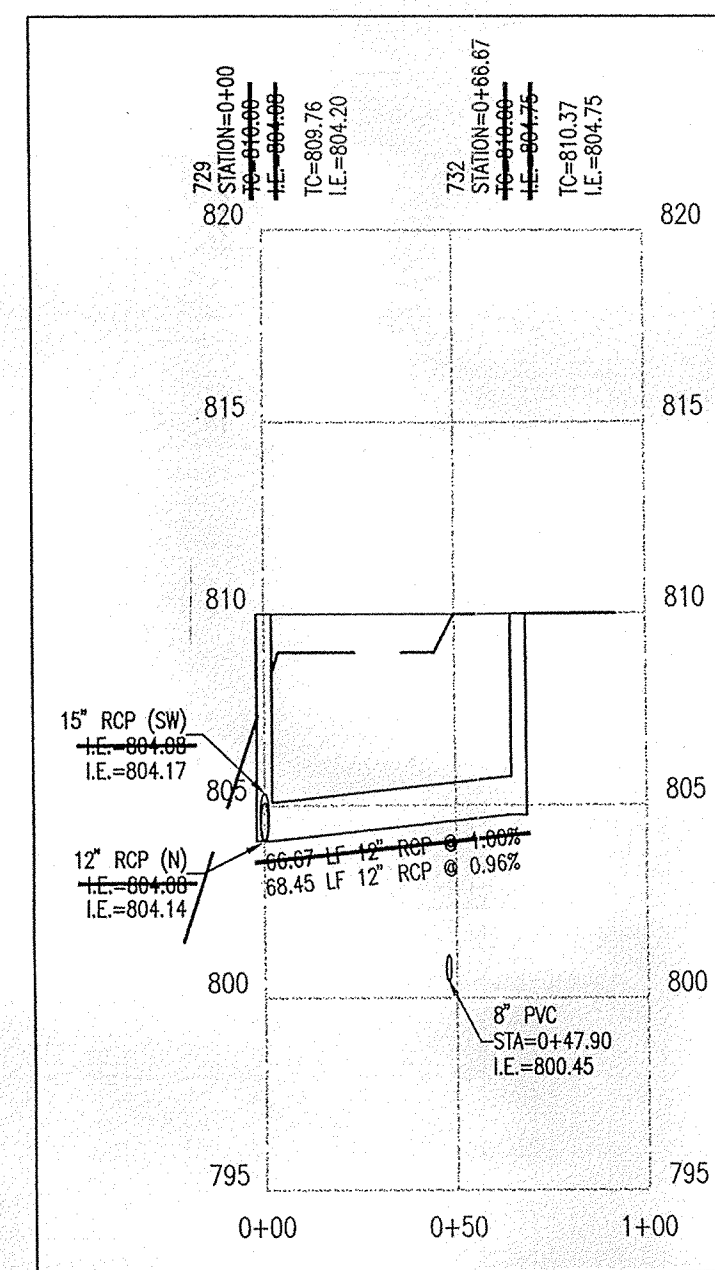
PROFILE SEVEN



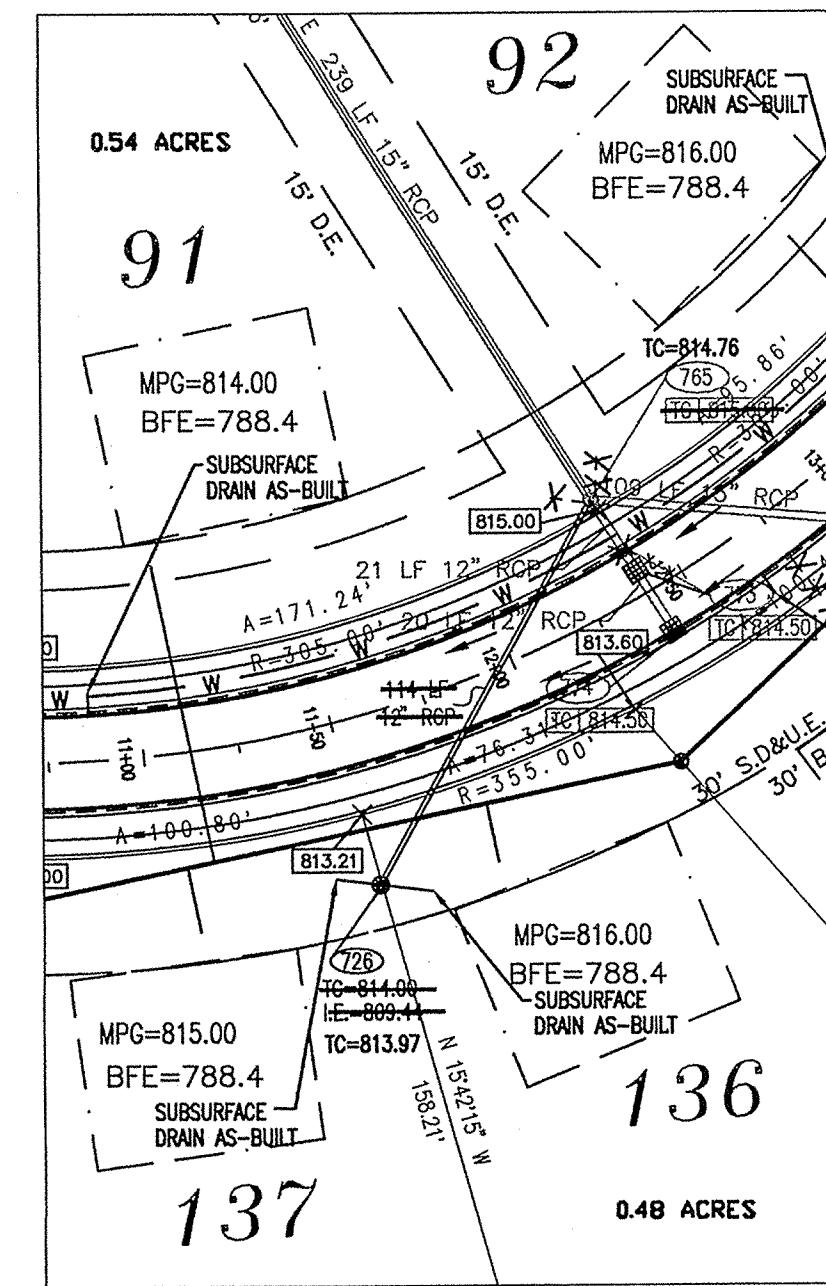
PLAN EIGHT



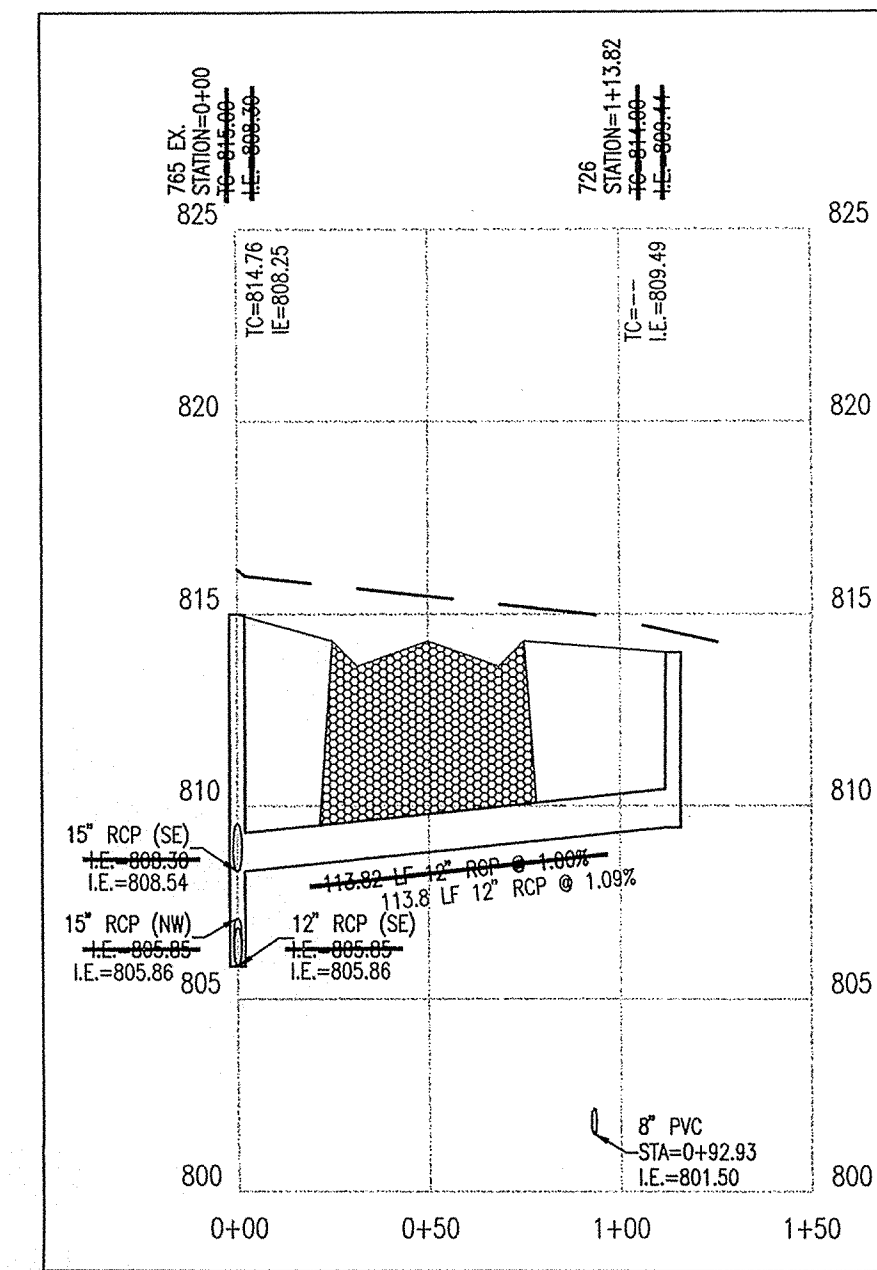
PROFILE EIGHT



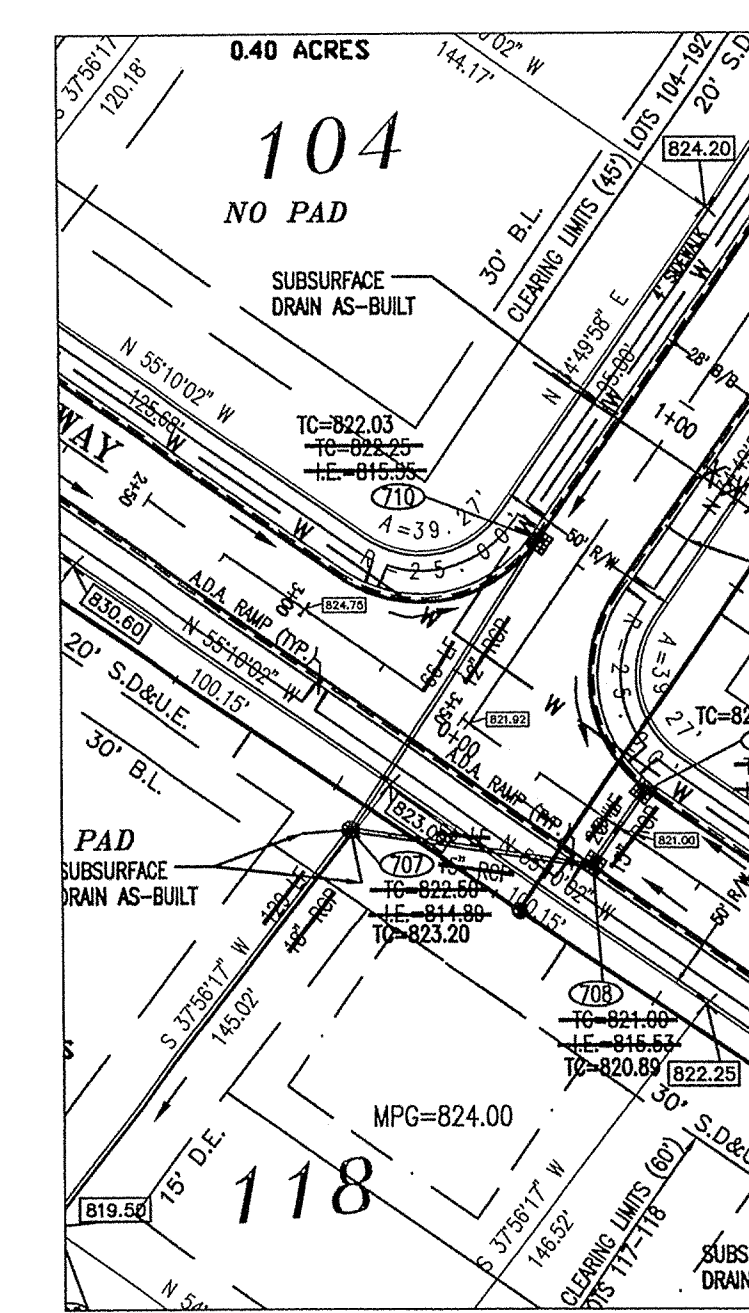
PLAN NINE



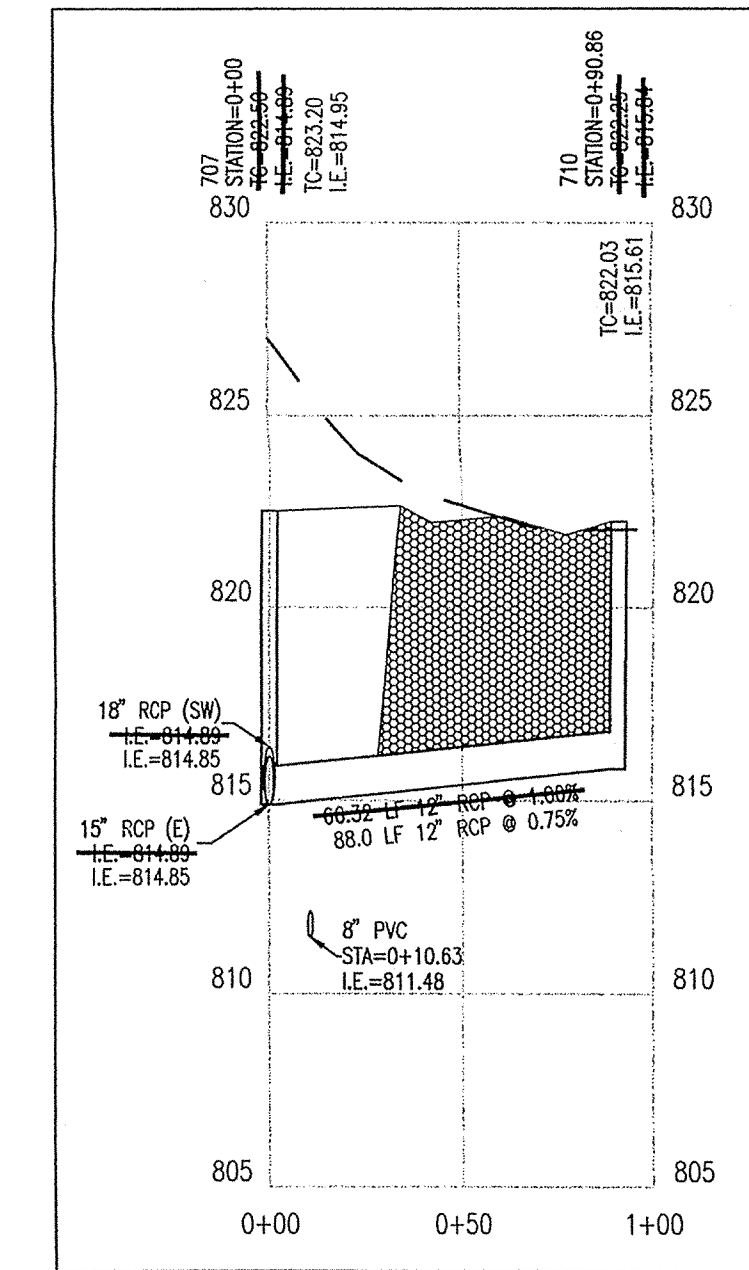
PROFILE NINE



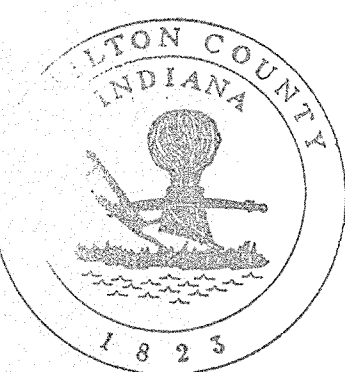
PLAN TEN



PROFILE TEN

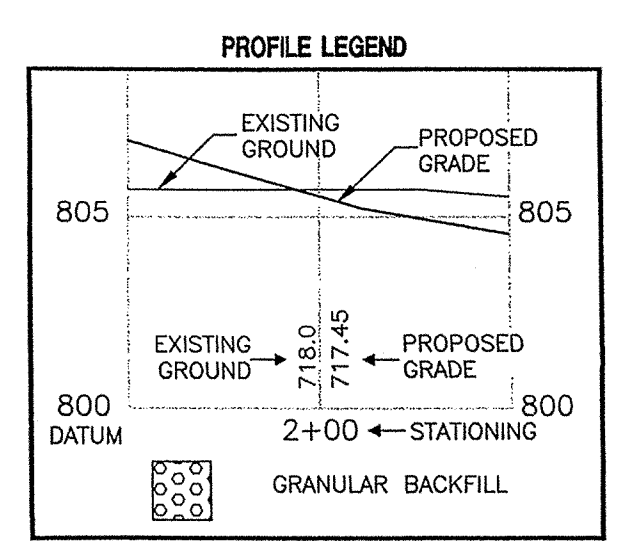


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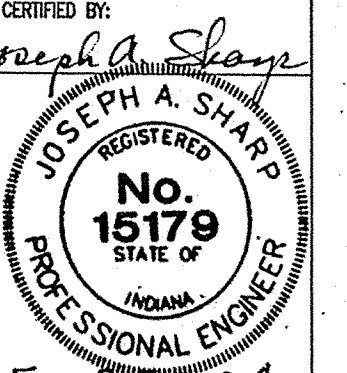
STORM SEWER PLAN AND PROFILE NOTES:

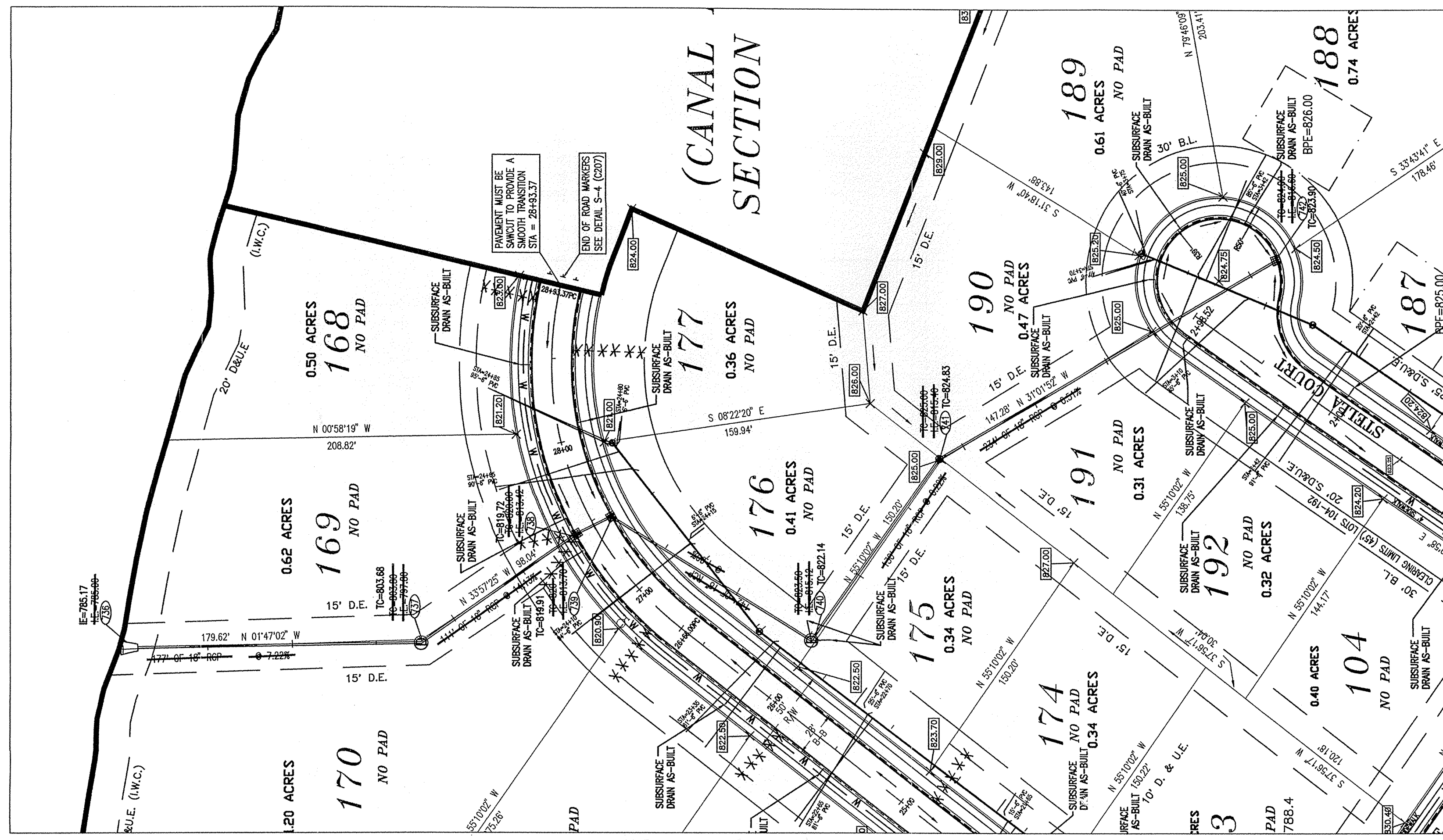
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CAIPE
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 ENGINEERS
 LANDSCAPE ARCHITECTS
 LAND SURVEYORS
 TRANSPORTATION ENGINEERS
 LAND PLANNERS
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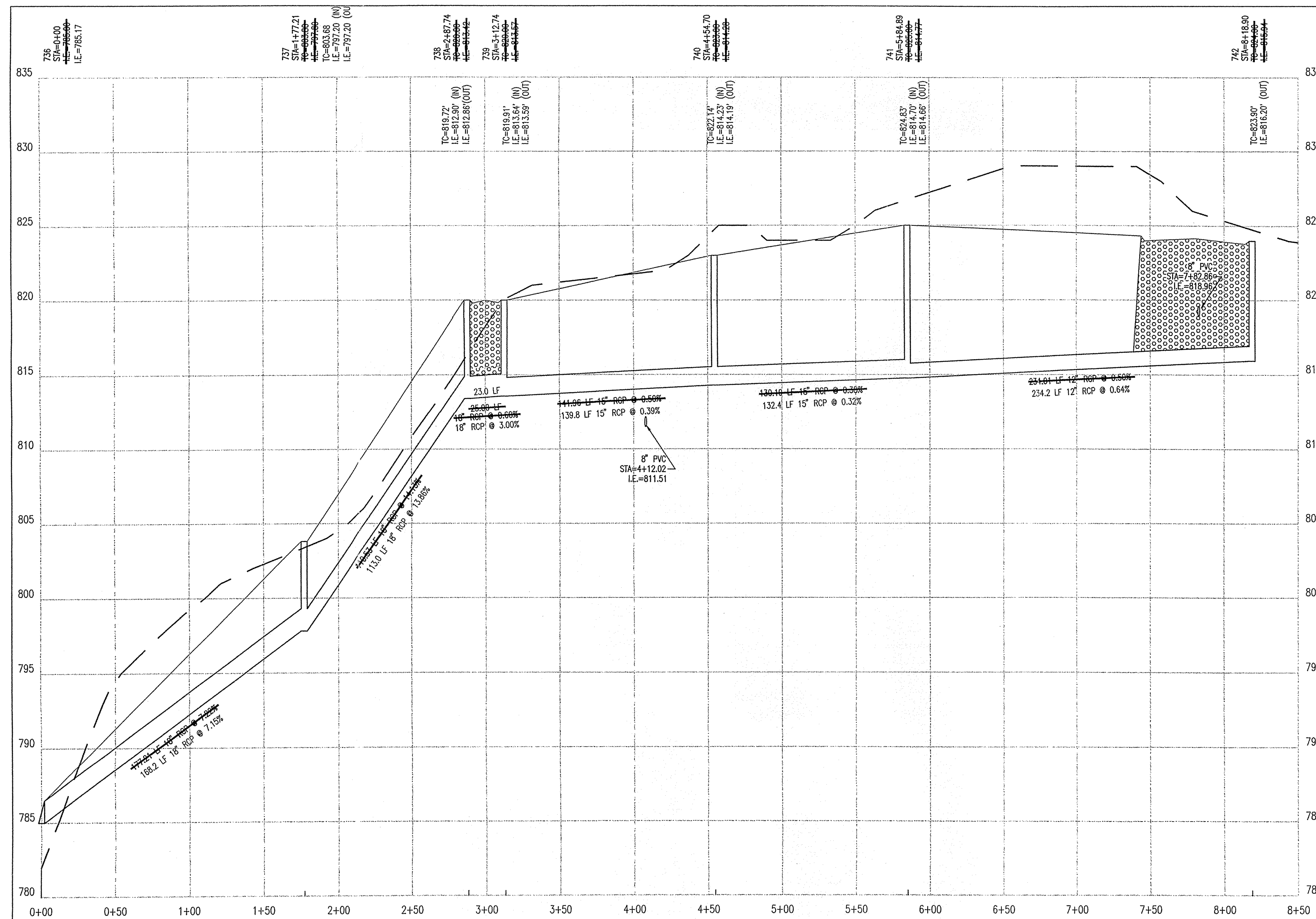
7172 GRAHAM ROAD
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 842-6777 FAX (317) 841-4798
 E-Mail at picrpe@picrpe.com

STORM PLAN AND PROFILE
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MARINA LIMITED PARTNERSHIP
 11691 FALL CREEK RD.
 INDIANAPOLIS, IN 46256
 PHONE: (317)-845-0270 FAX: (317)-845-0768

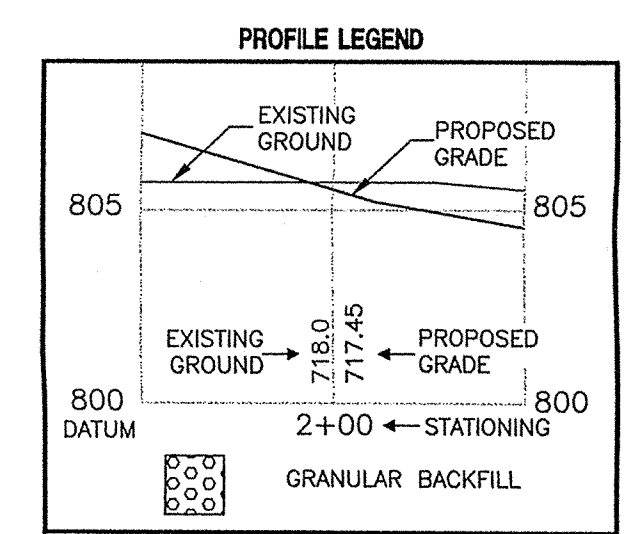
CERTIFIED BY:

 Drawn By: AS-BUILT BY: CMO 5/21/04
 Checked By:
 Quality Assurance:
 Scale: 1" = 50'
 Sheet: **C703**
 Date: 02-07-02
 Project Number: 990384-20000



PLAN ELEVEN



PROFILE ELEVEN



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RECORD DRAWING

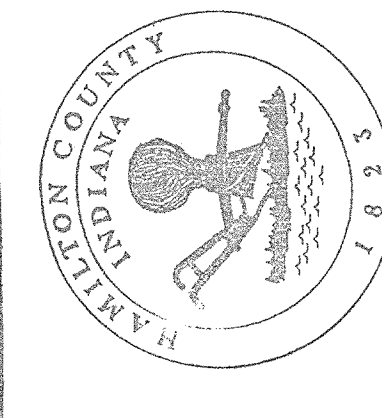
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AS BUILT
date: 6-27-04

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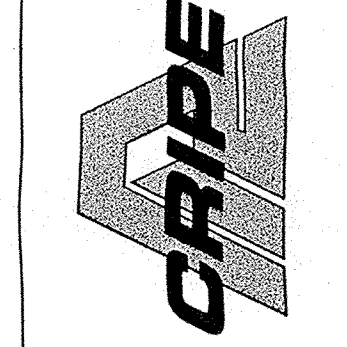
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Entered by: SLM



Revision	Mark	Description
1		08/22/03 REVISION PER D.C. COMMENTS.

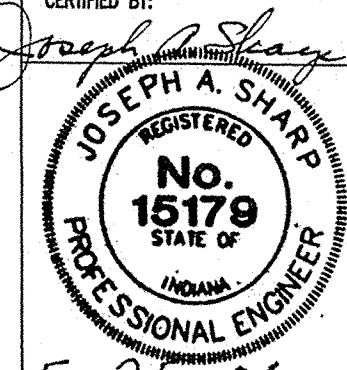
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ENVIRONMENTAL CONSULTANTS
LAND PLANNERS
LAND SURVEYORS

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842-6777
E-Mail: picrpe@picrpe.com



STORM PLAN AND PROFILE
CANAL PLACE, SECTION TWO

MARINA LIMITED PARTNERSHIP
11691 FALL CREEK RD.
INDIANAPOLIS, IN 46256
PHONE: (317) 945-0270



Drawn by: AS-BUILT BY: CMO 5/21/04
Checked by:
Quality Assurance:
Scale: 1" = 50'
Sheet: **C704**
Date: 02-07-02
Project Number: 990384-20000

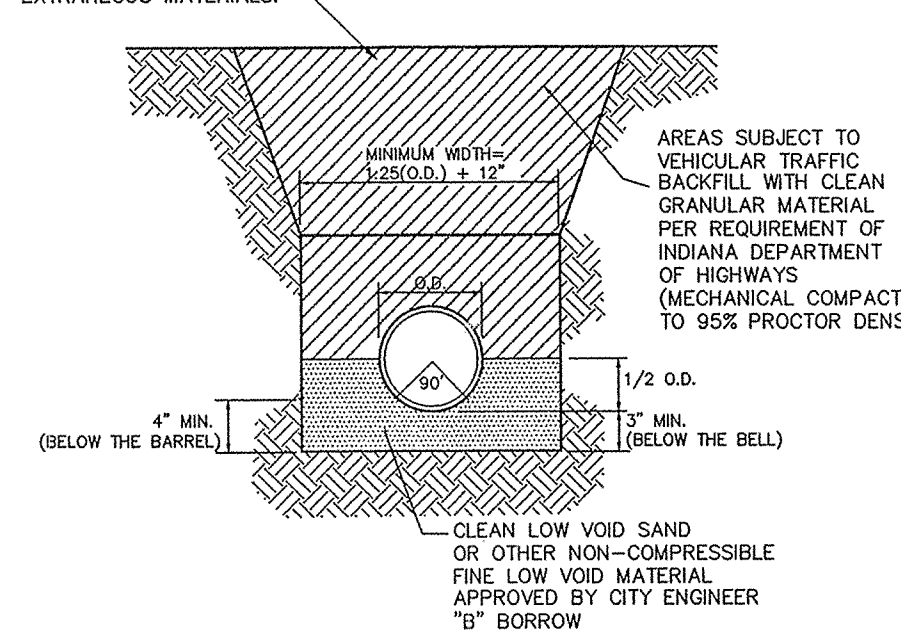
NOTE:
TOP OF CASTING ELEVATIONS FOR CURB INLETS ARE LOCATED AT THE TOP OF CURB ELEVATION
WHILE TOP OF CASTING ELEVATIONS FOR YARD GRATE CASTINGS ARE LOCATED AT THE FLOW LINE.

STRUCTURE DATA TABLE SEE AS-BUILT DATA

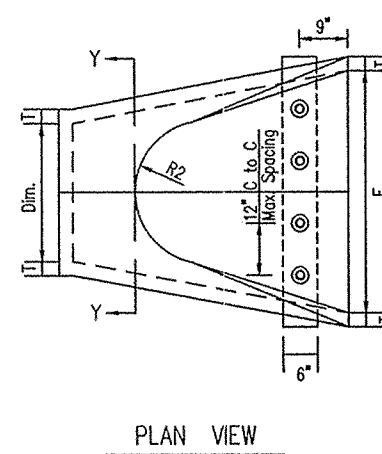
STRUCTURE NUMBER	STRUCTURE TYPE	INLET DETAIL	CASTING TYPE (NEENAH EQUIV.)	TOP OF CASTING ELEV.	INVERT OUT ELEV.
700	CONCRETE END SECTION	ST-3A	END SECTION	785.00	785.00
701	48" CONE TOP MANHOLE	ST-4	R-1772A	795.00	786.26
702	72" CONE TOP MANHOLE	ST-4	R-3501N	817.63	808.68
703	48" CONE TOP MANHOLE	ST-4	R-1772A	818.50	809.45
704	48" CONE TOP MANHOLE	ST-4	R-4342	818.19	811.30
705	48" CONE TOP MANHOLE	ST-4	R-1772A	821.00	812.32
706	48" FLAT TOP MANHOLE	ST-6	R-4342	819.50	813.60
707	48" CONE TOP MANHOLE	ST-4	R-1772A	822.00	814.89
708	48" FLAT TOP MANHOLE	ST-6	R-3501N	821.00	815.55
709	48" FLAT TOP MANHOLE	ST-6	R-3501N	821.00	815.78
710	48" FLAT TOP MANHOLE	ST-6	R-3501N	822.25	815.84
711	48" FLAT TOP MANHOLE	ST-6	R-3501N	817.80	811.82
712	48" FLAT TOP MANHOLE	ST-6	R-3501N	818.03	810.82
713	48" FLAT TOP MANHOLE	ST-6	R-4342	818.00	811.88
714	48" FLAT TOP MANHOLE	ST-6	R-4342	818.00	813.90
715	48" FLAT TOP MANHOLE	ST-6	R-3501N	817.69	811.40
716	48" FLAT TOP MANHOLE	ST-6	R-3501N	817.69	811.56
717	48" FLAT TOP MANHOLE	ST-6	R-4342	817.75	811.75
718	48" FLAT TOP MANHOLE	ST-6	R-4342	818.00	812.95
736	CONCRETE END SECTION	ST-3A	END SECTION	785.00	785.00
737	48" FLAT TOP MANHOLE	ST-6	R-1772A	803.80	797.80
738	48" FLAT TOP MANHOLE	ST-6	R-3501N	820.00	813.82
739	48" FLAT TOP MANHOLE	ST-6	R-3501N	820.00	813.87
740	48" CONE TOP MANHOLE	ST-4	R-1772A	823.00	814.38
741	48" CONE TOP MANHOLE	ST-4	R-4342	825.00	814.77
742	48" CONE TOP MANHOLE	ST-4	R-3501N	824.00	815.94
726	48" FLAT TOP MANHOLE	ST-6	R-4342	814.00	809.44
727	CONCRETE END SECTION	ST-3A	END SECTION	785.00	785.00
728	48" FLAT TOP MANHOLE	ST-6	R-3501N	810.00	803.58
729	48" FLAT TOP MANHOLE	ST-6	R-3501N	810.00	804.08
730	48" FLAT TOP MANHOLE	ST-6	R-4342	810.00	804.59
731	48" FLAT TOP MANHOLE	ST-6	R-4342	811.00	806.54
732	48" FLAT TOP MANHOLE	ST-6	R-4342	810.00	804.75
733A	CONCRETE END SECTION	ST-3A	END SECTION	785.00	785.00
733B	48" CONE TOP MANHOLE	ST-4	R-1772A	793.00	786.80
734	48" CONE TOP MANHOLE	ST-4	R-3501N	821.30	809.41
735	48" FLAT TOP MANHOLE	ST-6	R-3501N	821.00	809.87

NOTE: INSPECT ALL SEWERS AS TO ELEVATION, GRADIENT, ALIGNMENT & JOINT BY INSPECTING ENGINEER PRIOR TO BACKFILL OVER PIPE

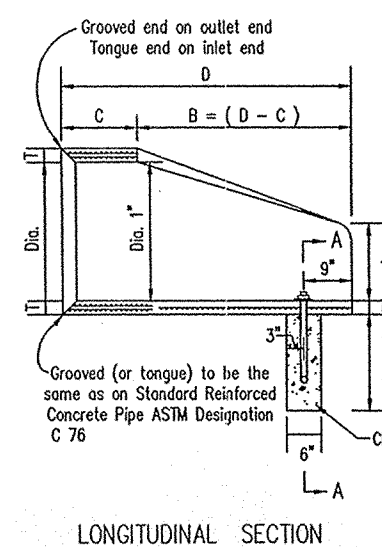
AREAS NOT SUBJECT TO VEHICULAR TRAFFIC MAY BE BACKFILLED WITH CLEAN FILL MATERIAL, FREE OF ANY ROCKS LARGER THAN 6" FROZEN SOIL, WOOD OR OTHER EXTRANEOUS MATERIALS.



ST-32 RIGID PIPE BEDDING DETAIL (STORM)
NO SCALE CONCRETE PIPE AND CMP



PLAN VIEW



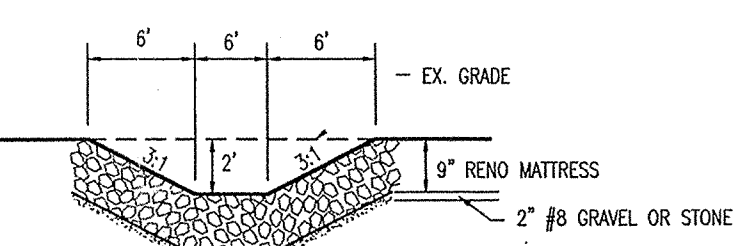
LONGITUDINAL SECTION

1. CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND SPECIFICATION AS SPECIFIED FOR REINFORCED CONCRETE PIPE, ASTM DESIGNATION C 78 CLASS II (or as set out in the Standard Specification).
2. REINFORCEMENT IN THE 12" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, ASTM DESIGNATION C 78, CLASS II FOR THE SIZE OF CONCRETE PIPE.
3. REINFORCEMENT IN THE 12" PORTION SHALL HAVE A CROSS-SECTIONAL AREA EQUAL TO THAT OF ONE BAR OF STEEL IN THE 12" SECTION.
4. THE END OF PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FLESH WITH MORTAR.
5. IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH PLANSIVE TRANSITION APPROXIMATELY 10' UP IN LENGTH.
6. VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE DIMENSIONS & DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, ASTM DESIGNATION C 78.
7. MAKE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE FITTED, A PIPE END SECTION COMPARED TO THAT AS SHOWN FOR SEWER OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE PROJECT ENGINEER.
8. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "PIPE END SECTION" COMPLETE IN PLACE AND ACCEPTED.
9. CONCRETE PIPE FOR ANCHORS SHALL BE WORKED ON ALL CONCRETE PIPE SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTION".

ST-3A PRECAST CONCRETE END SECTION
NO SCALE

DIAM. T (min.)	A x C	D x K	E x K	R1	R2	Approx. Weight
12"	4'-5"	6'-0"	2'-0"	13	10 1/8"	800
15"	2 3/4"	7'-1"	6'-0"	13	12 1/2"	1100
18"	2 1/2"	11'-4"	6'-0"	18	15 1/2"	1500
21"	2 3/4"	11'-4"	6'-0"	21	18 1/8"	1500
24"	3'-0"	11'-4"	6'-0"	23	18 3/8"	1800
27"	3 1/4"	11'-4"	6'-0"	24	18 3/8"	2100
30"	3 1/2"	11'-4"	6'-0"	24	18 1/2"	2400
33"	3 3/4"	11'-4"	6'-0"	31	23 3/4"	4100
36"	4'-0"	11'-4"	6'-0"	34	24 5/8"	4200

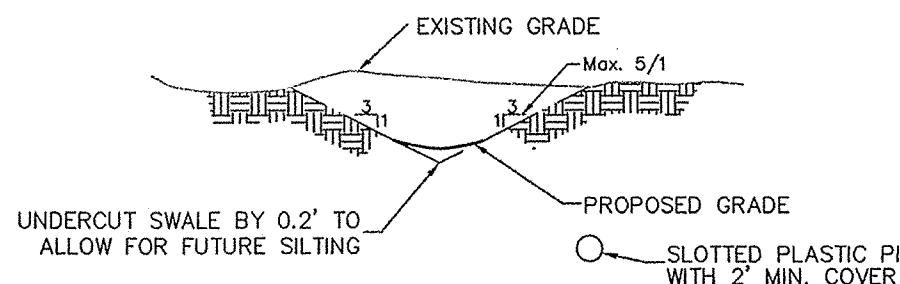
x Tolerance ± 1"



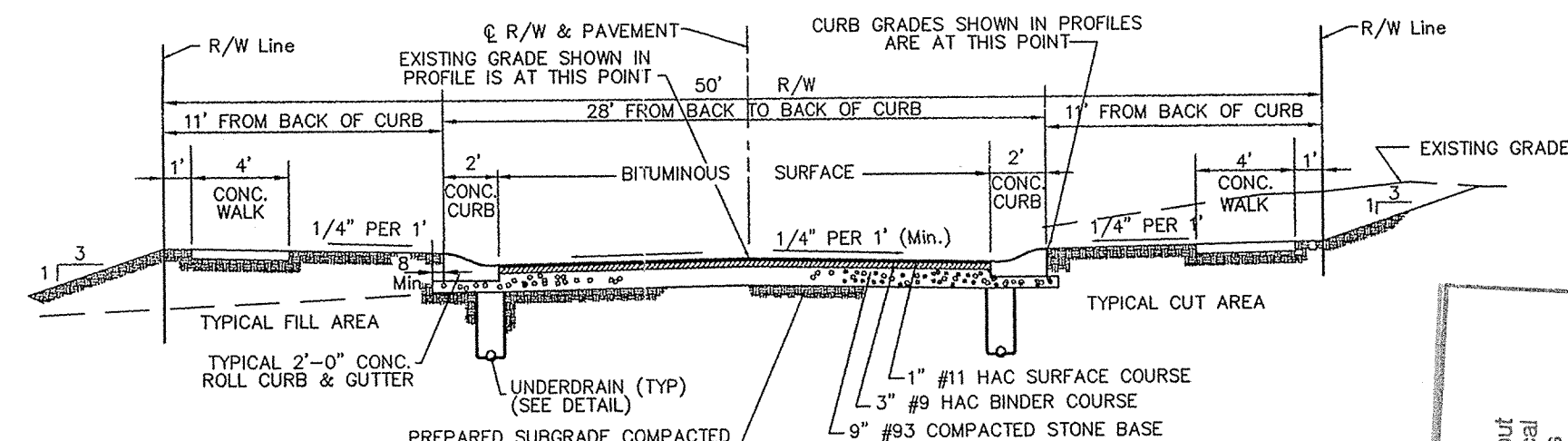
SEE MANUFACTURER'S SPECIFICATIONS FOR MORE DETAIL.

- MAINTENANCE
1. INSPECT CHANNELS AT REGULAR INTERVALS AND AFTER STORM EVENTS.
 2. WHEN STONES HAVE BEEN DISPLACED, REMOVE ANY DEBRIS AND REPLACE THE STONES IN SUCH A WAY AS TO RESTRICT THE FLOW AREA.
 3. GIVE SPECIAL ATTENTION TO OUTLETS AND POINTS WHERE CONCENTRATED FLOW ENTERS THE CHANNEL, AND REPAIR ERODED AREAS PROMPTLY.
 4. CHECK FOR SEDIMENT ACCUMULATION, PIPING, BANK INSTABILITY, AND SCOUR HOLES; REPAIR PROMPTLY.

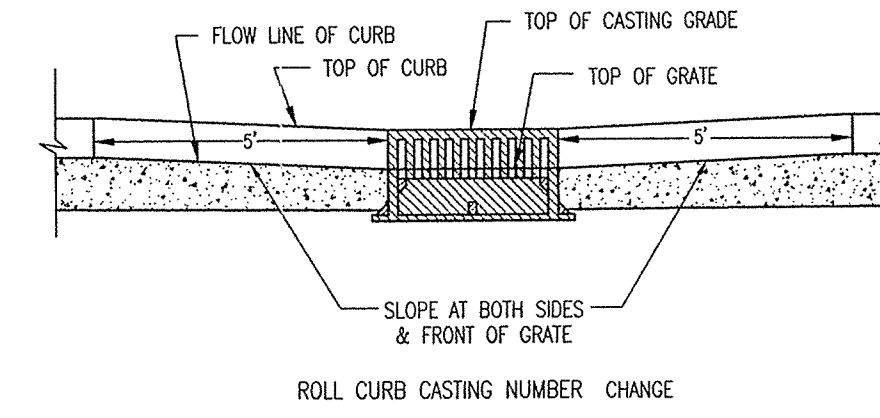
EC-9 RENO MATTRESS/ROCK CHUTE CROSS SECTION
NO SCALE



ST-1 TYPICAL SWALE DETAIL
NO SCALE

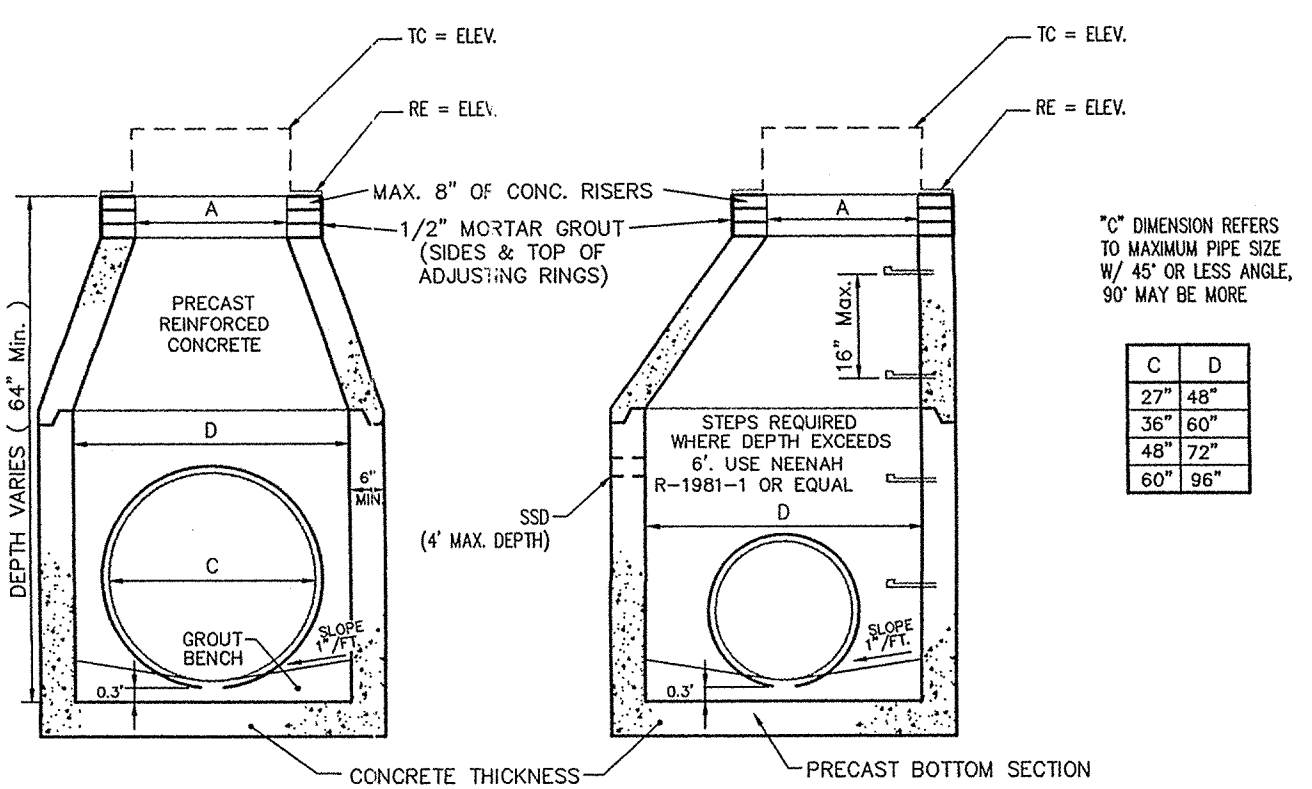


SR10 TYPICAL STREET SECTION
NO SCALE (HAMILTON CO.)

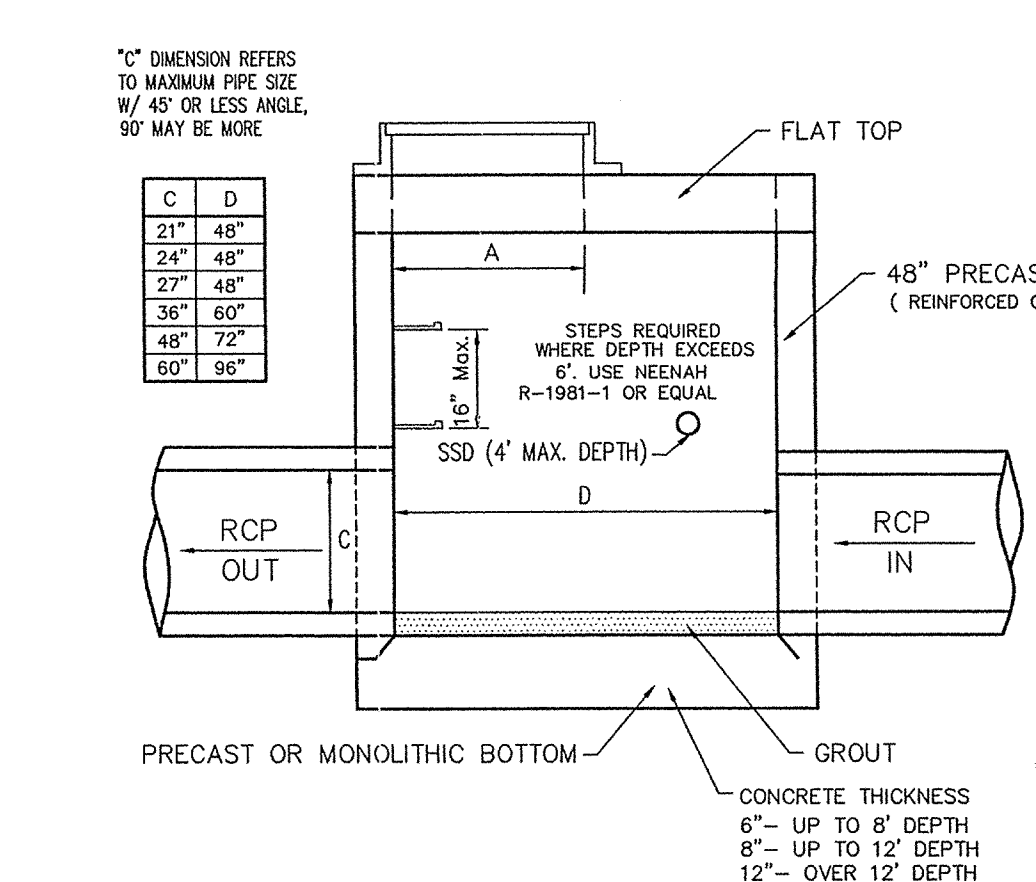


CA-5 ROLL CURB INLET SETTING DETAIL
NO SCALE

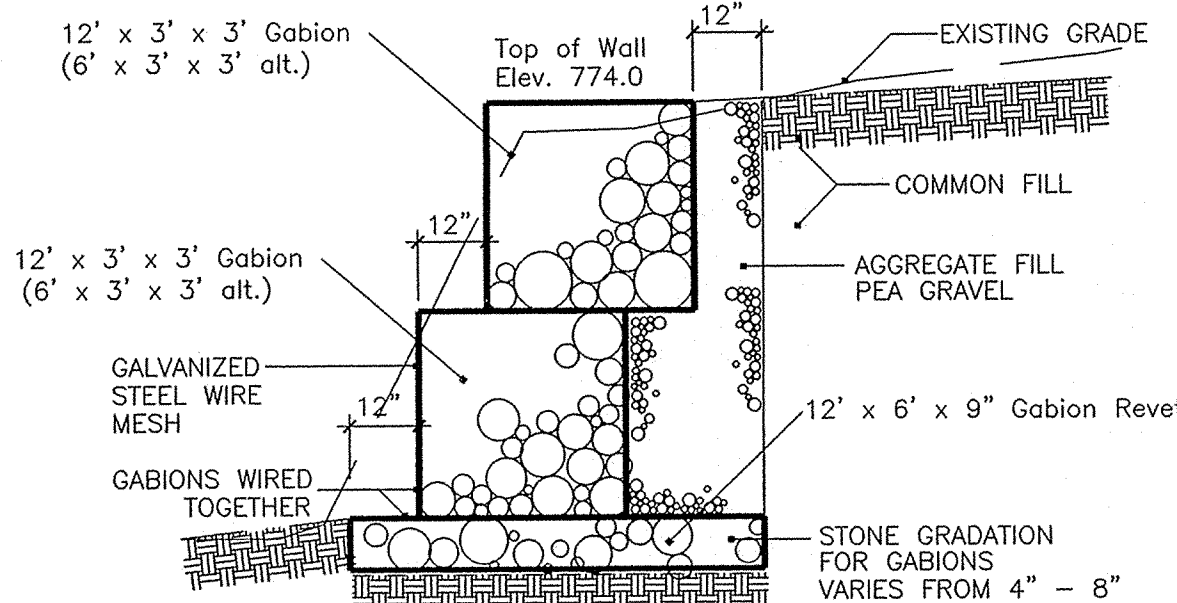
EJW	NEENAH	TYPE	USE	A
1022-1 HD	R-1772-A	MANHOLE	GRADED AREAS	24"
1022-3 HD	R-1772-C	MANHOLE	TRAFFIC AREAS	24"
-	R-2501	GRATE	TRAFFIC AREAS	28"
-	R-2560-C2	BEEHIVE	SWALES	24"
6489	R-4342	DITCH GRATE	SWALES	24"



ST-4 STORM SEWER MANHOLE
NO SCALE W/ CONE TYPE REDUCER



ST-6 STORM SEWER MANHOLE
NO SCALE W/ FLAT TOP REDUCER



GA 1 GABION MATTRESS
NO SCALE

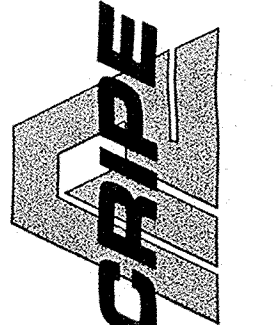
This information was gathered for input into the Hamilton County GIS system. This information is for informational purposes only. It is not to be used for any other purpose without the consent of the County Engineer.

Entry Date: 2-6-06
Entered by: SLM

ARCHITECTS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL CONSULTANTS
LAND PLANNERS
LAND SURVEYORS

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
842-6777
E-Mail at picrpe@picrpe.com

(317)



STORM DETAILS
CANAL PLACE, SECTION TWO
MARINA LIMITED PARTNERSHIP
11891 FALL CREEK RD.
INDIANAPOLIS, IN 46250
PHONE: (317) 845-0200

CERTIFIED BY:
Joseph A. Sharp
REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA

AS BUILT
date 6-21-04

RECORD DRAWING

Drawn By: AS-BUILT BY: CMQ 5/21/04
Checked By:
Quality Assurance:
Scale: 0
Scale: 1" = 10'/4
Sheet:
C705
Date: 02-07-02
Project Number: 990384-20000