

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*

May 20, 2003

To: Hamilton County Drainage Board

Re: J. W. Brendel Drain
City of Carmel Street Department Main Facility Arm to the
Shelborne Park Arm

Attached is a petition filed by the City of Carmel along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the City of Carmel Street Department Main Facility Arm, J. W. Brendel Drain to be located in Clay 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:

12" RCP	150 ft	27" RCP	38 ft	36" RCP	1,210 ft
24" RCP	479 ft	30" RCP	607 ft	42" RCP	190 ft
				Open Ditch	1,000 ft

The total length of the drain will be 3,674 feet.

The retention pond (lake) located in the northwest corner of the tract is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the City of Carmel. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments. Also, the open ditch listed above is that portion of the pond measured as a straight line between structures 700 and 728, 717 and 700, and 700 and 706

The portions of the storm sewer to be regulated drain are those sections as follows:

Str. 728 to 734A; Str. 731 to 731A; Str. 700 to Str. 828 in Shelborne Park; Str. 739 to 719; Str. 717 to 722; and Str. 706 to 712.

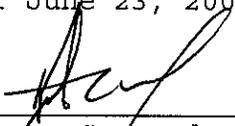
I have reviewed the plans and believe the drain will benefit the tract. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$10.00 per acre, \$10.00 per acre for roadways with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$220.50.

Parcel assessed for this drain may be assessed for the Long Branch Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above-proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the attached documents.

I recommend the Board set a hearing for this proposed drain for June 23, 2003.



Kenton C. Ward
Hamilton County Surveyor

KCW/llm

From: "donpau (Paul Donica)" <DONPAU@picripe.com>
To: "Jll@co.hamilton.in.us" <Jll@co.hamilton.in.us>
Date: 5/15/03 8:26AM
Subject: Carmel Street Dept. Facility Stormwater Costs

Attached is the cost breakdown of the stormwater portion for the Carmel Street Department Facility project as per your request. Sorry it took so long to get this to you. If you need additional information, please call me at 317-842-6777.

Thanks.

Paul Donica

-----Original Message-----

From: Andy Vannice [mailto:avannice@s-bconstruction.com]
Sent: Friday, May 09, 2003 3:35 PM
To: donpau (Paul Donica); grumik {Mike Grubb}
Cc: davemsbconst@aol.com; tyltom (Tom Tyler); Jon Glassman
Subject: RE: Cinergy

The storm cost is as follows:

Labor - \$82,075.00
Material - \$123,111.00

Andy V.

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FINDINGS AND ORDER

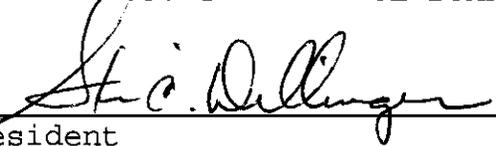
CONCERNING THE MAINTENANCE OF THE

J. W. Brendel Drain,
City of Carmel Street Department Main Facility Arm to the
Shelborne Park Arm

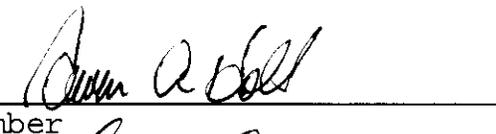
On this *23rd day of June 2003*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *J. W. Brendel Drain, City of Carmel Street Department Main Facility Arm to the Shelborne Park Arm*.

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: 

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
*J. W. Brendel Drain, City of Carmel Street Department Main Facility
Arm to the Shelborne Park Arm*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *J. W. Brendel Drain, City of Carmel Street Department Main Facility Arm to the Shelborne Park Arm* came before the Hamilton County Drainage Board for hearing on *June 23, 2003*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

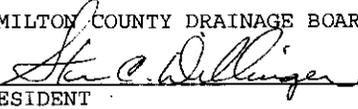
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included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

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the *J. W. Brendel Drain, City of Carmel Street Department Main Facility Arm to the Shelborne Park Arm* be and is hereby declared established.

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

HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT



Member



Member

ATTEST:


Executive Secretary



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
 Surveyor of Hamilton County
 Phone (317) 776-8495
 Fax (317) 776-9628

Suite 188
 One Hamilton County Square
 Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

April 1, 2009

Re: JW Brendle: Carmel Street Facility Arm

Attached are plans and other information for Carmel Street Facility Arm. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated May 20, 2003. The report was approved by the Board at the hearing held June 23. (See Drainage Board Minutes Book 7, Pages 82-83)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:
734-733	229	24	RCP	909.95	909.49	0.2
733-732	64	30	RCP	909.49	909.36	0.2
732-731	128	30	RCP	909.36	909.04	0.25
731-730	97	30	RCP	909.04	908.75	0.3
730-729	300	30	RCP	908.75	907.85	0.3
729-728	82	30	RCP	907.85	907.6	0.3
713-712	90	24	RCP	909.35	909.17	0.2
712-711	214	36	RCP	909.17	908.75	0.2
711-710	104	36	RCP	908.75	908.54	0.2
710-709	164	36	RCP	908.54	908.21	0.2
709-708	127	36	RCP	908.21	907.96	0.2
707-707	109	36	RCP	908.21	907.96	0.2
707-706	69	36	RCP	907.74	907.6	0.2
722-721	100	36	RCP	908.89	908.69	0.2
721-720	195	36	RCP	908.69	908.3	0.2
720-719	128	36	RCP	915.59	907.98	128
719-718	119	42	RCP	907.98	907.74	0.2
718-717	71	42	RCP	907.74	907.6	0.2
739-738	31	24	RCP	908.39	908.32	0.2
738-737	44	24	RCP	908.32	908.24	0.2

737-719	85	24	RCP	908.24	907.98	0.3
734A-734	33	12	RCP	914.82	914	2.5
731A-731	42	12	RCP	914.82	914	2.5
700-ex	75	12	RCP	907.26	907.3	-0.4
stub - 722	38	27	RCP		908.89	0.2

RCP Pipe Totals:

12	150
24	479
27	38
30	671
36	1210
42	190

Total: 2738

Other Drain

Open ditch	1011
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Total: 1011

The length of the drain due to the changes described above is now **3749 feet**.

The non-enforcement was approved by the Board at its meeting on June 23, 2003 and recorded under instrument #200300065994. The project was paid for by the City of Carmel, therefore, no sureties were posted for this project.

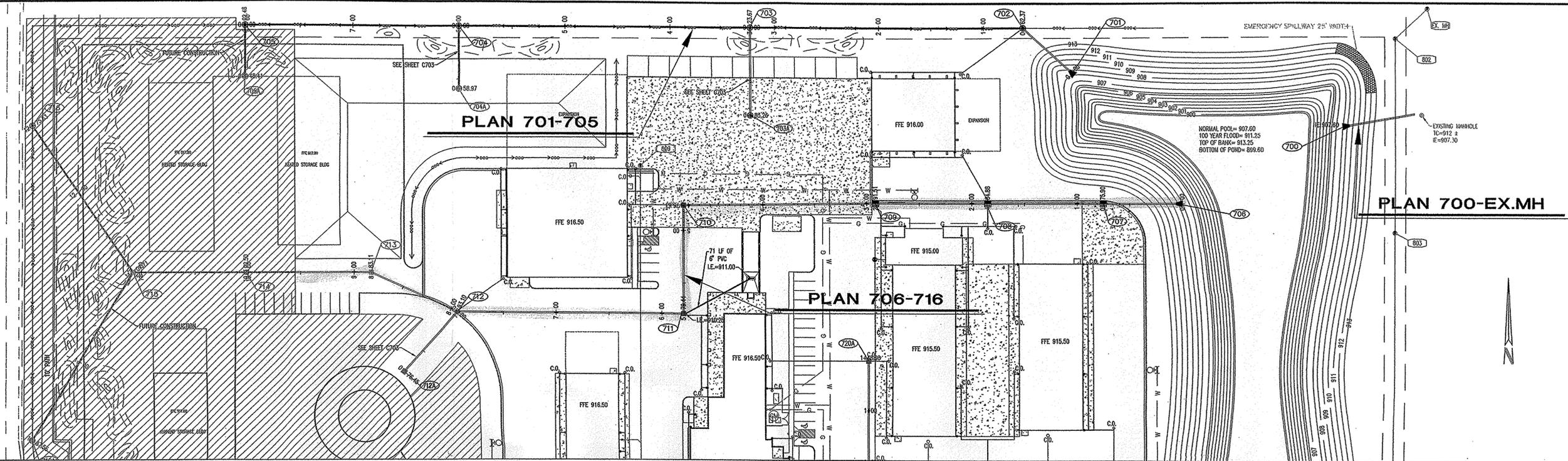
I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

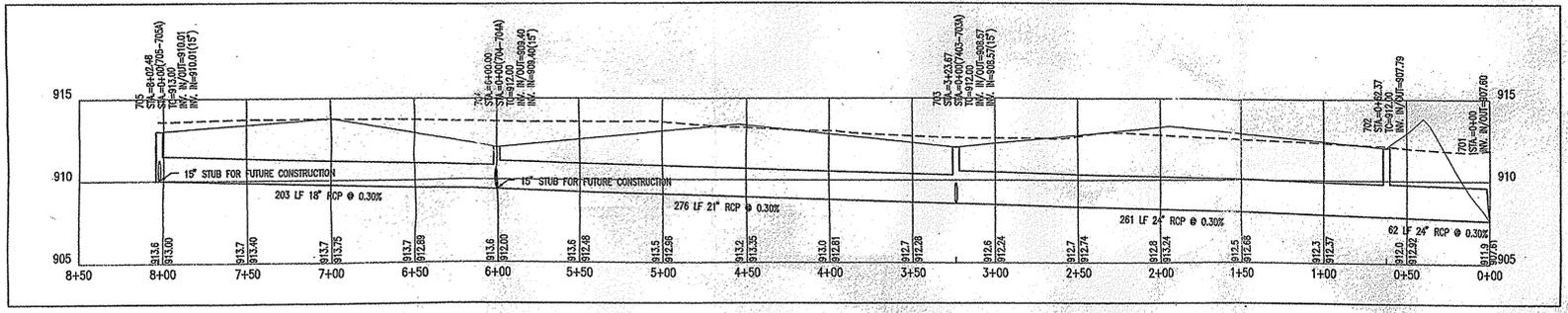


Kenton C. Ward, CFM
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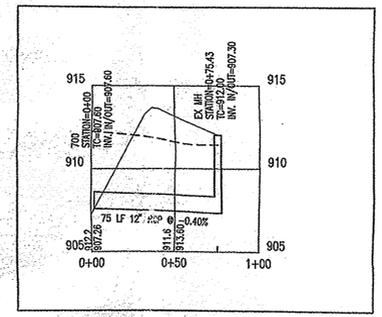
KCW/slm



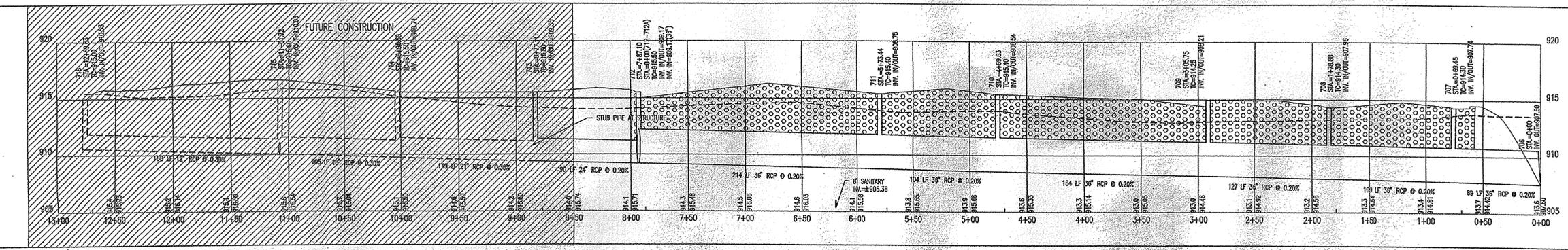
PLAN VIEW
SCALE: 1" = 50'



PROFILE 701-705
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

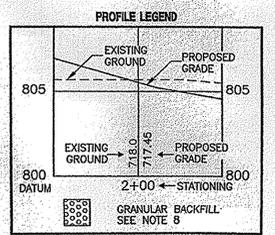


PROFILE 700-EX. MH
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE 706-716
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

- STORM SEWER PLAN AND PROFILE NOTES**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART PP 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 GROUNDED, TROWELED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (IE. MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCHWALLS 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 IN THE PROJECT MANUAL.
 - PIPES 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-SHRINKING GROUT.
 - AT THE POINT OF CONNECTION OF THE PROPOSED PIPE, PLACE A THREE FOOT (3') DIAMETER BY A MINIMUM SIX INCH (6") THICK, 4000 PSI CONCRETE COLLAR WITH 4"x10 GUAGE WIRE MESH OVER THE EXTERIOR OF THE MANHOLE.
 - ONCE THE COLLAR HAS BEEN MADE, INSTALL A RUBBER BOOT.
 - ALL DOWNSPOUTS ARE CONNECTED TO 6" PVC PIPES AS SHOWN WITH WYES IN SHEET C704. MINIMUM SLOPE OF PIPE IS 1%.



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: April 2009
Entered By: SLM



HAMILTON CO. SURVEYORS' OFFICE
APPROVED
BY: [Signature] DATE: APR 23 2009

APPROVED FOR CONSTRUCTION
HAMILTON COUNTY
HIGHWAY DEPARTMENT
FILED
FEB 26 2009
OFFICE OF HAMILTON COUNTY SURVEYOR

DON'T DIG BLIND
1-800-382-5544
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, valves, and records) made upon the ground by others. ANY 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 OBTAINED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

STORM PLAN AND PROFILES
STREET DEPARTMENT MAIN FACILITY
CITY OF CARMEL
131ST STREET AND SHELBORNE ROAD
CARMEL, INDIANA 46032

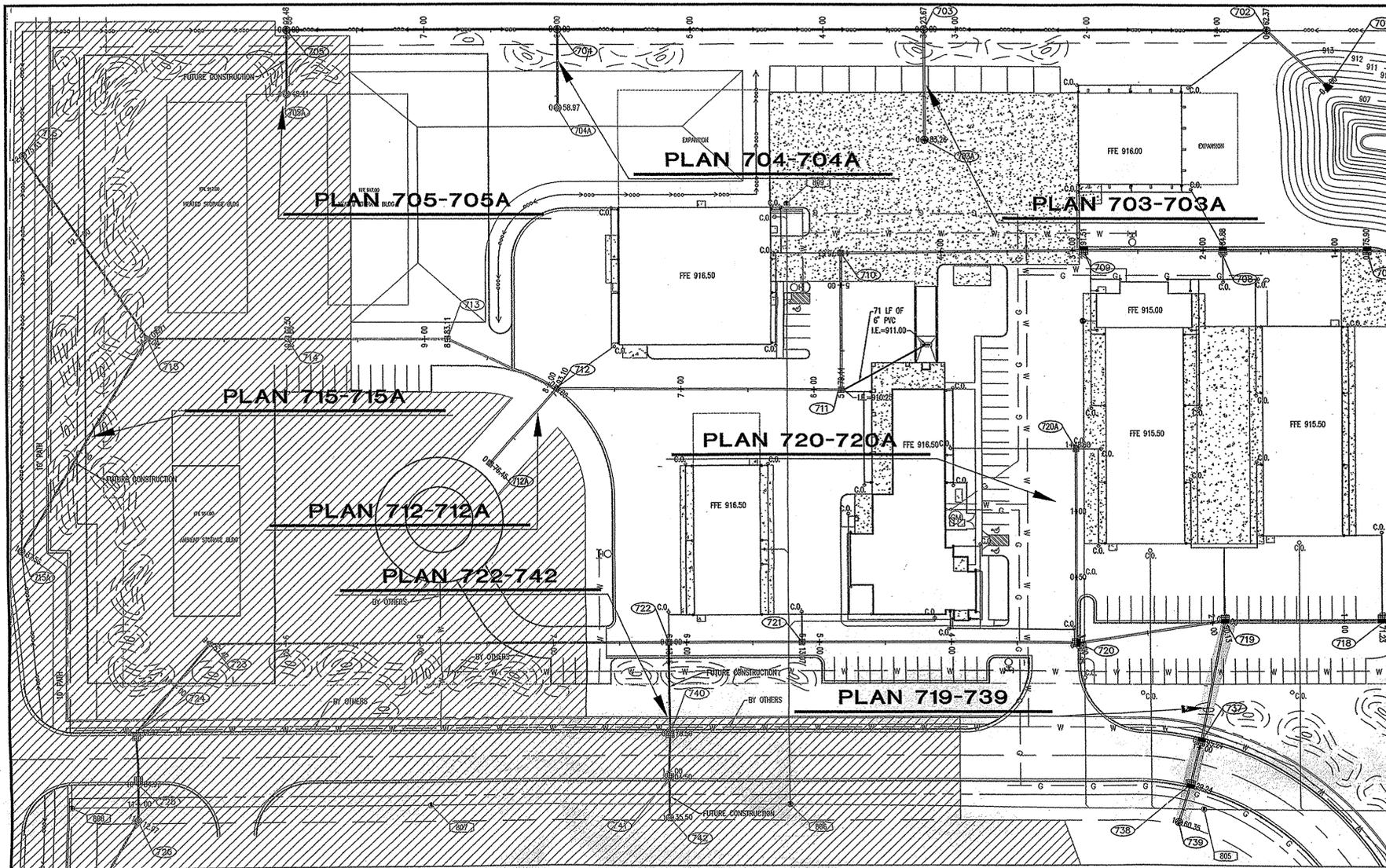
ARCHITECTURE
CIVIL ENGINEERING
LAND PLANNING
LAND SURVEYING
MECHANICAL ENGINEERING
ELECTRICAL ENGINEERING
ENVIRONMENTAL ENGINEERING

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-5777 FAX (317) 841-4796
E-Mail: pic@pcpe.com

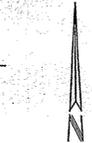
CRPE

CERTIFIED BY: [Signature]
No. 000368
STATE OF INDIANA
PROFESSIONAL ENGINEER

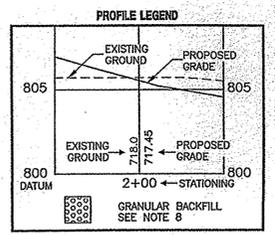
Drawn By: FR/CM
Checked By: AS
Quality Assurance: TS
Scale: 1" = 50'
Sheet: **C701**
Date: 11/01/02
Project Number: 990488-10100



PLAN VIEW
SCALE: 1" = 50'



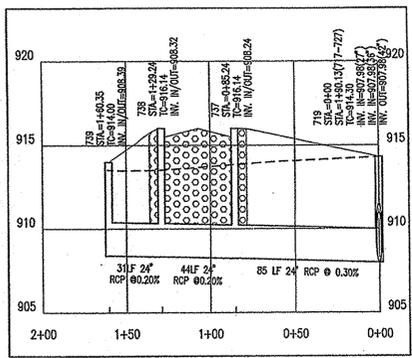
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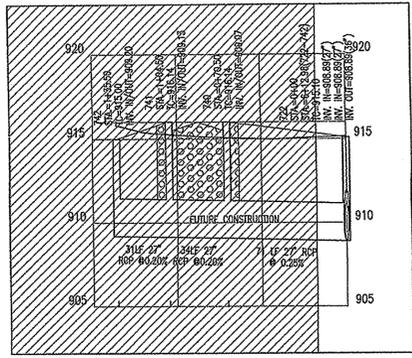
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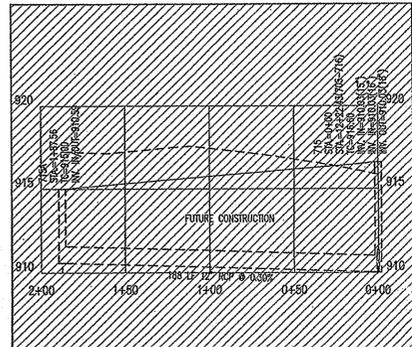
CAUTION
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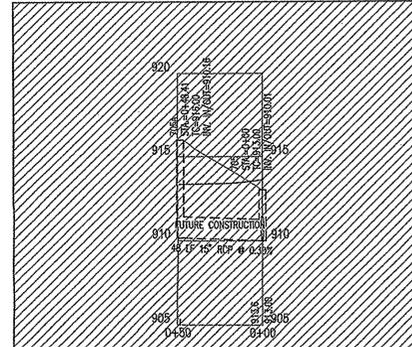
PROFILE 719-739
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



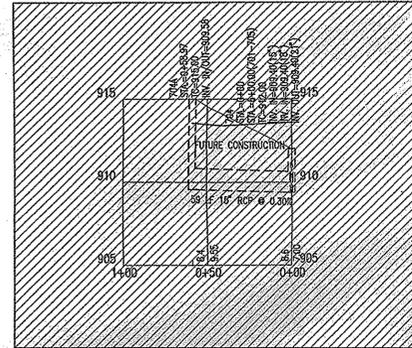
PROFILE 722-742
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VER. SCALE: 1" = 5'



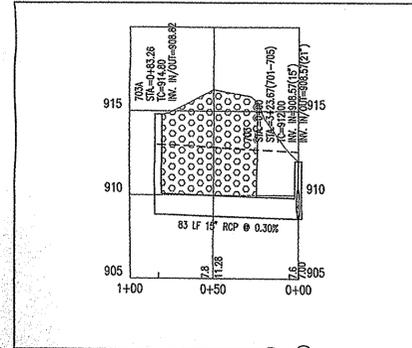
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VER. SCALE: 1" = 5'



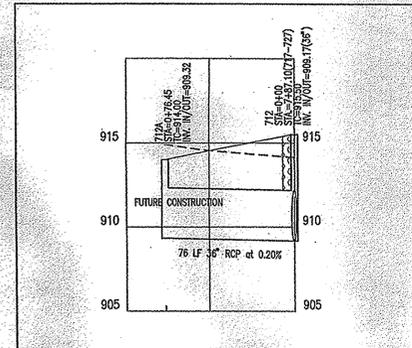
PROFILE 705-705A
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VER. SCALE: 1" = 5'



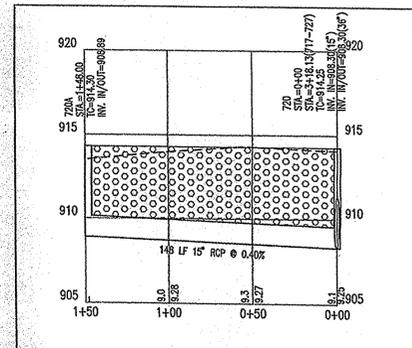
PROFILE 704-704A
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE 703-703A
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE 712-712A
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



PROFILE 720-720A
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'



APPROVED APPROVED FOR CONSTRUCTION
HAMILTON COUNTY HIGHWAY DEPARTMENT
DATE: APR 23 2009
FILED
FEB 26 2003

Approved where drainage plans comply with Hamilton County regulated urban design standards only and does not imply Drainage Board acceptance nor secondary plot approval.

Revision	Date	Description

ARCHITECTURE
CIVIL ENGINEERING
LAND PLANNING
LAND SURVEYING
INFORMATION ENGINEERING
GIS

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



STORM PLAN AND PROFILES
STREET DEPARTMENT MAIN FACILITY
CITY OF CARMEL
131ST STREET AND SHELBOURNE ROAD
CARMEL, INDIANA 46032



Drawn By: FR/CM
Checked By: AS
Scale: 1" = 50'
Sheet: **C703**
Date: 11/01/02
Project Number: 990488-10100