

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

November 28, 2007

To: Hamilton County Drainage Board

Re: Morrow-Follett Drain, Village Green Townhomes Reconstruction

Attached is a petition and plans for the proposed relocation of the Morrow-Follett Drain. The relocation is being proposed by Drees Homes. The proposal is to (relocate and reconstruct) the drain from Structure #21 of the 1990 City of Carmel Reconstruction (Surveyor's Report dated June 5, 1995 and approved by the Board on June 5, 1995, Drainage Board Minutes Book 4, Page 125) to Station 47+88 of the 1906 legal description. This is shown on Sheet C104 of Village Green Townhomes Section 2 plans by Weihe Engineering, last revision date of June 25, 2007 and project number W06-0862.

The line will consist of the following:

72" RCP	34 ft.	Open Ditch	557 ft.
4' x 12' Concrete Box	181 ft.		

The reconstructed drain begins at existing Structure #21 and is 34' of 72" RCP to Structure 731 per the Weihe plans. Then 157 feet of open ditch through the pond in Common Area "D" to Structure 724; 181' of 4' x 12' concrete box from Structure 724 to Structure 728. The drain then continues northerly as open ditch for approximately 400 feet. This point is the confluence of Little Cool Creek and is also Station 47+88 of the original drain.

The total length of new drain shall be 772 feet. The 742 feet of original drain between Sta. 40+46, (which is also Structure #21) and Sta.47+88 shall be vacated. This proposal will add an additional 30 feet to the drains total length.

The cost of the relocation is to be paid by Drees Homes. Because the project is to be paid by the petitioner and is within the boundaries of the petitioners property the project fall under the requirements as set out in IC 36-9-27-52.5. Therefore, a public hearing with 30 day notice is not required for the petition.

The petitioner has provided the performance bond as follows:

Name of Bonding Co./Bank: Liberty Mutual Insurance Company

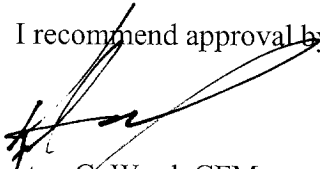
Bond Number: 014044368

Bond Date: July 25, 2007

Bond Amount: \$329,500.00

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 Village Green Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend approval by the Board at this time.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

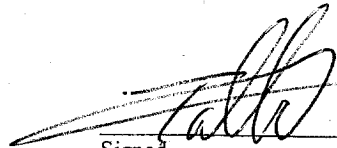
IN RE: _____)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

_____ Drees Premier Homes (hereinafter "Petitioner"),
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a
section of the _____ Follet & Morrow _____ Drain, and in support of
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the _____ Follet & Morrow _____ Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the _____ Follet & Morrow _____ Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the _____ Follet & Morrow _____ Drain, without cost to other property owners on the watershed of the _____ Follet & Morrow _____ Drain.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the _____ Follet & Morrow _____ Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.



Signed
John Talbot

Printed

WEIHE ENGINEERS INC.
 CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

Opinion of Probable Construction Cost

Description: Legal Drain Bonding, Village Green Section 2 **Project #:** W06-0862
Date: 07/29/07 **By:** Tony Halsey, PE

ITEM	QUANTITY	UNITS	UNIT PRICE	PRICE
EARTHWORK				
Common Excavation	1160	CY	\$11.95	\$13,862.00
Borrow / Borrow Placement	1715	CY	\$8.80	\$15,092.00
EARTHWORK SUBTOTAL				\$28,954.00
STORM SEWER				
Reroute 72" RCP & Repair MH	1	LS	\$3,500.00	\$3,500.00
72" RCP	8	LFT	\$192.00	\$1,536.00
4' x 12' Box Structure	181	LFT	\$1,175.00	\$212,675.00
Riprap	60	Ton	\$40.00	\$2,400.00
STORM SEWER SUBTOTAL				\$220,111.00
TOTAL				\$249,065.00
20% CONTINGENCY				\$49,813.00
120% CONSTRUCTION COST TOTAL				\$298,878.00

VILLAGE GREEN 2

UNIT PRICE SHEET

JULY 26, 2007

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>UNIT PRICE</u>	<u>EXTENDED</u>
EARTHWORK					
1	Clearing and Grubbing	2.5	ACRE	\$9,934.00	\$24,935.00
	Topsoil Stripping and Removal	4500	CY	\$9.85	\$44,325.00
	Common Excavation	5600	CY	\$11.95	\$66,920.00
	Borrow	13400	CY	\$6.00	\$80,400.00
	Borrow Placement	13400	CY	\$2.80	\$37,520.00
	Soils Testing	1	LSUM		\$0.00

EARTHWORK TOTAL

\$254,000.00

SANITARY SEWERS

✓ 2	48" Diameter Manholes	3	EA	\$2,426.60	\$7,279.80
	8" PVC Sewer Main	381	LF	\$28.70	\$10,934.70
	6" PVC Sewer Laterals	195	LF	\$15.90	\$3,100.50
	Sand Backfill	715	TN	\$14.00	\$10,010.00
	8" x 6" PVC Wyes	5	EA	\$115.00	\$575.00

SANITARY SEWERS TOTAL

Total Sanitary \$31,900.00

STORM SEWERS

✓ 3	Curb Inlets	3	EA	\$1,520.00	\$4,560.00
	Storm Inlets	2	EA	\$1,395.00	\$2,790.00
	Manholes	6	EA	\$2,165.00	\$12,990.00
	BMP Str. 701A	1	EA	\$40,550.00	\$40,550.00
	BMP Str. 735	1	EA	\$10,480.00	\$10,480.00
	12" RCP	215	LF	\$20.68	\$4,446.20
	15" RCP	310	LF	\$24.95	\$7,734.50
	18" RCP	24	LF	\$27.20	\$652.80
	21" RCP	190	LF	\$33.50	\$6,365.00
	24" RCP	34	LF	\$39.88	\$1,355.92
	30" RCP	37	LF	\$47.32	\$1,750.84
	72" RCP	8	LF	\$192.00	\$1,536.00
	4' x 12' Box Culvert	181	EA	\$1,175.00	\$212,675.00
	Sand Backfill	151	TN	\$14.00	\$2,114.00
	Rip-Rap	160	TN	\$40.00	\$6,400.00
	R/R 72" RCP and Rpr. Structure	1	LS	\$3,500.00	\$3,500.00

STORM SEWERS TOTAL

\$319,900.26

SUB-SURFACE DRAINS

✓ 4	6" Street SSD	960	LF	\$10.00	\$9,600.00
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SUB-SURFACE DRAINS TOTAL

\$9,600.00

Total Storm + SSD =

\$329,500

	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>UNIT PRICE</u>	<u>EXTENDED</u>
5	WATER SERVICE				
	8" Main	430	LF	\$28.55	\$12,276.50
	Fittings	8	EA	\$322.00	\$2,576.00
	Fire Hydrants	1	EA	\$3,470.50	\$3,470.50
	8" Gate Valves	1	EA	\$1,225.00	\$1,225.00
	3/4 Service Taps/Pits	30	EA	\$660.00	\$19,800.00
	3/4" Copper Lines	850	LF	\$13.00	\$11,050.00
	Sand Backfill	643	TN	\$14.00	\$9,002.00
	WATER SERVICE TOTAL:				\$59,400.00
					<i>Total Water</i>
6	CONCRETE CURB				
	Machine Pour Roll C & G	790	LF	\$12.45	\$9,835.50
	Hand Pour Roll C & G	75	LF	\$19.47	\$1,460.25
	Handicap Ramps	4	EA	\$50.00	\$200.00
	Depressed Back Roll C & G	85	LF	\$11.23	\$954.55
	CONCRETE CURB TOTAL:				\$12,450.30
					<i>Total Curb</i>
7	PAVEMENT				
	Street and Path Paving	2263	SY	\$27.486	\$62,200.82
	PAVEMENT TOTAL:				\$62,200.82
8	CONDUITS				
	Conduits with Granular Backfill	780	LF	\$10.00	\$7,800.00
	MAINTENANCE BONDS TOTAL				\$7,800.00
8	MAINTENANCE BONDS				
	Maintenance Bonds	1	LS	\$5,140.00	\$5,140.00
	MAINTENANCE BONDS TOTAL				\$5,140.00
	GRAND TOTAL				\$762,994.38

Roudebush Grading, Inc.
1616 Sheridan Road
Noblesville, IN 46062
(317)710/8777, fax: 770/6636

Proposal

Erosion Control ✓

Date: 6/27/07
For: Drees Homes
Project: Village Green Townhomes Section 2

Description of Services				Amount
Permanent Seed	42,280	SF x	\$0.05 =	\$2,114.00
Right-of-way Seed	11,625	SF x	\$0.05 =	\$581.25
Permanent Seed with Blanket	19,370	SF x	\$0.135 =	\$2,614.95
Temp. Seed without Mulch	1.2	AC x	\$350.00 =	\$420.00
Silt Fence	795	LF x	\$1.00 =	\$795.00
Tree Protection Fence	645	LF x	\$2.00 =	\$1,290.00
Beehive Protection	5	EA x	\$45.00 =	\$225.00
Curb Inlet Protection	5	EA x	\$35.00 =	\$175.00
TOTAL:				<u>Total E.C. \$8,215.20</u>

Bid Clarifications:

1. Silt Fence included in this proposal is black / woven / 2"x2" posts / 10' o/c spacing.
2. Curb Inlet Protection included in this proposal are latex coir mat.
3. Beehive Protection in this proposal are filter fabric wrapped wire baskets.

Acceptance Of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted.
You are authorized to do the work as specified

Date _____
Date 7/15/07

Contractor Signature _____
Owner Signature [Signature]



Date: June 19, 2007

Submitted To: Drees Homes
6650 Telecom Dr., Suite 200
Indianapolis, IN 46278
Attn: John Talbot

Project Name: Village Green Townhomes 2
Smokey Row & Rangeline Rd.
Carmel, IN

Phone Number: (317) 295-7111

We propose to furnish labor and materials necessary for completion of the following scope-of-work, for the sum of: See Breakdown Below

dollars \$ 0.00

<u>STONE & PAVE STREET</u>	
<input checked="" type="checkbox"/> <u>ONSITE PAVING</u>	\$ 29,790.00
1. Place, grade and compact 7" of # 53 limestone. (Includes stone under curb. 460 tons)	
2. Lay H.A.C. base, roll to a 3" compaction.	
3. Lay H.A.C. binder, roll to a 2" compaction.	
4. Lay H.A.C. surface, roll to a 1 1/2" compaction.	
5. Approximately 985 square yards.	
<input checked="" type="checkbox"/> <u>PARKING AREA</u>	\$ 5,031.00
1. Place, grade and compact 6" of # 53 limestone. (60 tons)	
2. Lay H.A.C. binder, roll to a 2" compaction.	
3. Lay H.A.C. surface, roll to a 1" compaction.	
4. Approximately 168 square yards.	
5. Stripe parking area per plan.	
<input checked="" type="checkbox"/> <u>EMERGENCY DRIVE</u>	\$ 7,905.00
1. Place, grade and compact 7" of # 53 limestone.	
2. Lay H.A.C. base, roll to a 3" compaction.	
3. Lay H.A.C. binder, roll to a 2" compaction.	
4. Lay H.A.C. surface, roll to a 1 1/2" compaction.	
5. Approximately 164 square yards.	
<input checked="" type="checkbox"/> <u>10'-0" ASPHALT PATH</u>	\$ 13,198.00
1. Place, grade and compact 5" of # 53 limestone, width installed at 11'-0". (70 tons)	
2. Lay H.A.C. binder, roll to a 2" compaction.	
3. Lay H.A.C. surface, roll to a 1" compaction.	
4. Approximately 630 square yards. (567 lineal feet x 10' wide)	
<u>MAINTENANCE BOND</u>	2000.00
1. Provide a 3 year 20% maintenance bond.	

Total Paving = \$42,726

290' in RV
567' total
↓
\$6750 Asphalt pa.

NOTES

Staking and engineering to be BY OTHERS.
Dirt grade to be with-in +/- .1" before acceptance.

Price based on Carmel's standard spec of surface completed in same mobilization, if surface is completed at a later date, ADD \$ 975.00 for clean tack and remobilization and material increase if applicable.

NOTES:

Contractor will schedule work after a signed contract is received. Delello & Sons is NOT responsible for permits, bonds, and utilities, unless stated otherwise on the proposal. Delello & Sons is NOT responsible for engineering, layout or staking. Delello & Sons is NOT responsible for traffic control or signage, unless stated otherwise. Delello & Sons is NOT responsible for existing drainage problem. Delello & Sons guarantees 95% drainage if grades are 1% or less. Delello & Sons is NOT responsible for damage to existing landscape, concrete, etc., due to construction traffic, etc. Delello & Sons is NOT responsible for unstable or inadequate sub-base, base or existing surface, unless noted otherwise. Cracks may appear in new asphalt when applied over existing asphalt or concrete, for which Delello & Sons will NOT be held liable. Delello & Sons not responsible for power steering scuffs, oil or gasoline damage. Any changes from the above specifications involving extra cost will become an extra charge over and above the proposed cost. Contract for weekday work ONLY. If owner/contractor requires Saturday work, overtime charges will be required.

HCDB-2007-00040 PERFORMANCE BOND

Bond No. 014044368



KNOW ALL MEN BY THESE PRESENTS that, Drees Premier Homes, Inc., 6650 Telecom Drive, Suite 200, Indianapolis, IN 46278., as Principal, and Liberty Mutual Insurance Company, 8044 Montgomery Road, 150E, Cincinnati, OH 45236, as Surety, are held and firmly bound unto City of Carmel Board of Public Works, 1 Civic Square, Carmel, IN 46032, and Hamilton County Board of Commissioners, 1 Hamilton County Square, Suite 157, Noblesville, IN 46060, as Obligee, in the sum of Three Hundred Twenty-Nine Thousand Five Hundred and 00/100 Dollars (\$329,500.00) lawful money of the United States for the payment of which, well and truly be made, we bind ourselves, our heirs, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a "Subdividers Contract" with City of Carmel Board of Public Works and Hamilton County Board of Commissioners for Storm Sewer in Village Green Section Two Subdivision.

NOW THEREFORE, if the said Principal hereinbefore set forth, shall fully and faithfully perform all the work specified to be done in accordance with plans for Village Green Section Two Subdivision, on record at City of Carmel Board of Public Works and Hamilton County Board of Commissioners, then this obligation shall be void and of no legal effect; otherwise, this bond shall remain in full force and effect in law; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder, shall in no event exceed the penal amount of this obligation, as herein stated to be the sum of Three Hundred Twenty-Nine Thousand Five Hundred and 00/100 Dollars (\$329,500.00) and no more.

SIGNED AND DATED THIS 25th day of July, 2007.

Principal: Drees Premier Homes, Inc.

By:

Surety: Liberty Mutual Insurance Company

By:

Susan A. Yeazell, Attorney-in-Fact

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

1819198



LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint **DAN E. RIES, SUSAN A. YEAZELL, ALL OF THE CITY OF CINCINNATI, STATE OF OHIO**.....

....., each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FORTY MILLION AND 00/100******* DOLLARS (\$ **40,000,000.00*******) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 22nd day of September, 2005

LIBERTY MUTUAL INSURANCE COMPANY

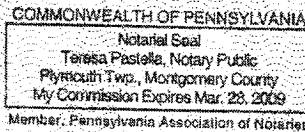
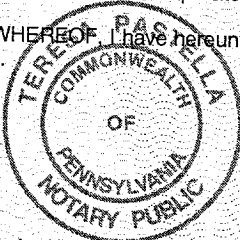
By Garnet W. Elliott
Garnet W. Elliott, Assistant Secretary



COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 22nd day of September, 2005, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, 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 officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, 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 25th day of July, 2007



By David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



Liberty Mutual Surety Bond Number 014044368

**NOTICE FROM SURETY REQUIRED BY
TERRORISM RISK INSURANCE ACT OF 2002**

In accordance with the Terrorism Risk Insurance Act of 2002 (referred to hereinafter as the "Act"), this disclosure notice is provided for surety bonds on which one or more of the following companies is the issuing surety: Liberty Mutual Insurance Company; Liberty Mutual Fire Insurance Company; LM Insurance Corporation; The First Liberty Insurance Corporation; Liberty Insurance Corporation; Employers Insurance Company of Wausau (formerly "EMPLOYERS INSURANCE OF WAUSAU A Mutual Company"); Peerless Insurance Company; and any other company that is a part of or added to the Liberty Mutual Group for which surety business is underwritten by Liberty Mutual Surety (referred to collectively hereinafter as the "Issuing Sureties").

NOTICE FORMS PART OF BOND

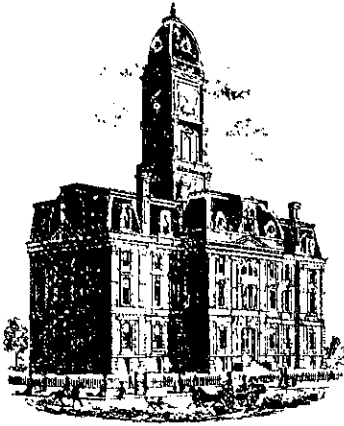
This notice forms part of surety bonds issued by any one or more of the Issuing Sureties.

DISCLOSURE OF PREMIUM

The premium attributable to any bond coverage for "acts of terrorism" as defined in Section 102(1) of the Act is Zero Dollars (\$0.00).

**DISCLOSURE OF FEDERAL PARTICIPATION
IN PAYMENT OF TERRORISM LOSSES**

The United States will reimburse the Issuing Sureties for ninety percent (90%) of any covered losses from terrorist acts certified under the Act exceeding the applicable surety deductible.



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

June 27, 2009

Re: Morrow-Follett Drain, Village Green Townhomes Reconstruction

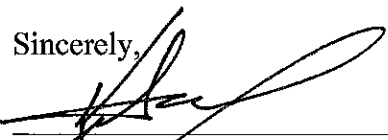
Attached are as-builts, certificate of completion & compliance, and other information for Village Green Townhomes Reconstruction. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes there were no significant changes made to the drainage plans submitted with my report for this drain dated November 28, 2007. This report was approved by the Board on its January 28, 2008 meeting. (See Drainage Board Minutes Book 11, Pages 2-3) Therefore, the length of the drain remains at **772 feet**.

The non-enforcement was approved by the Board at its meeting on January 28, 2008 and recorded under instrument # 2008028391. The following sureties were guaranteed by Liberty Mutual Insurance and expired on July 25, 2009.

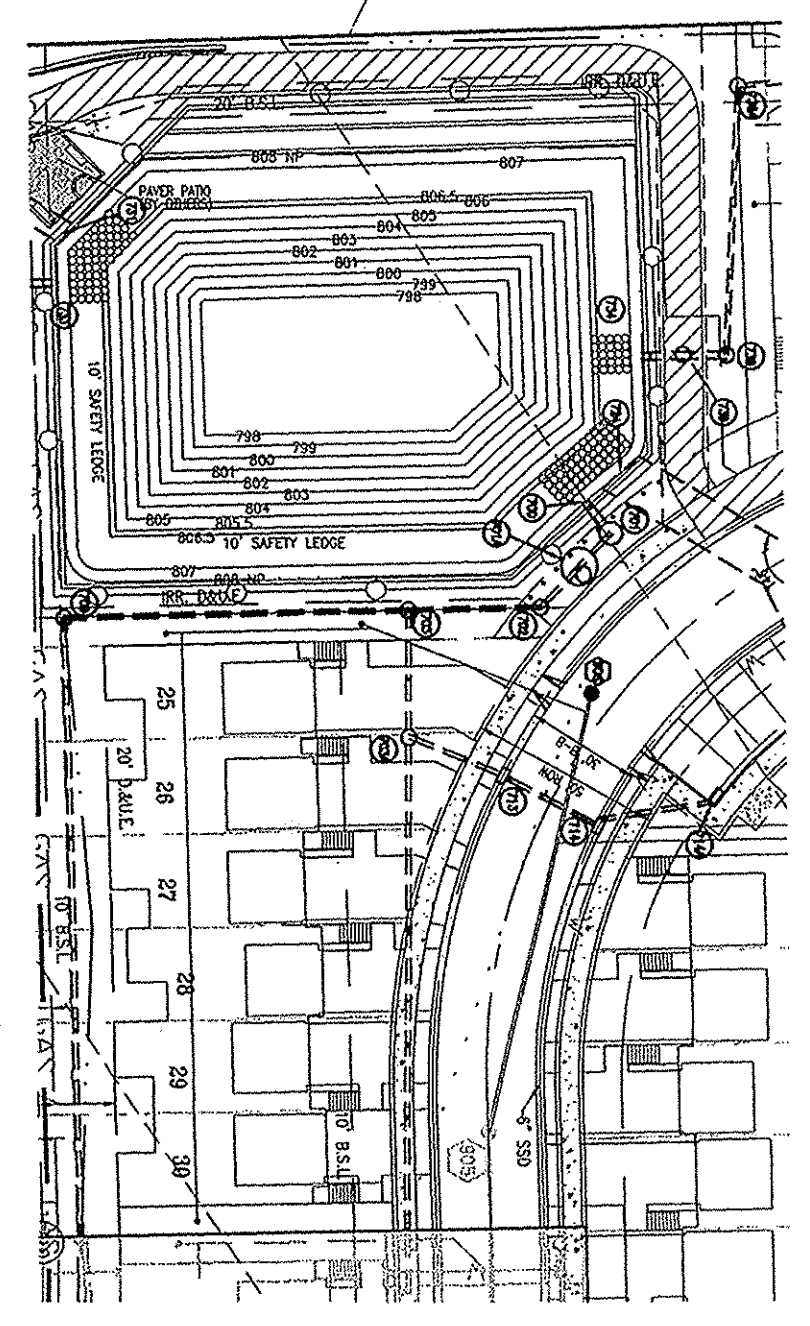
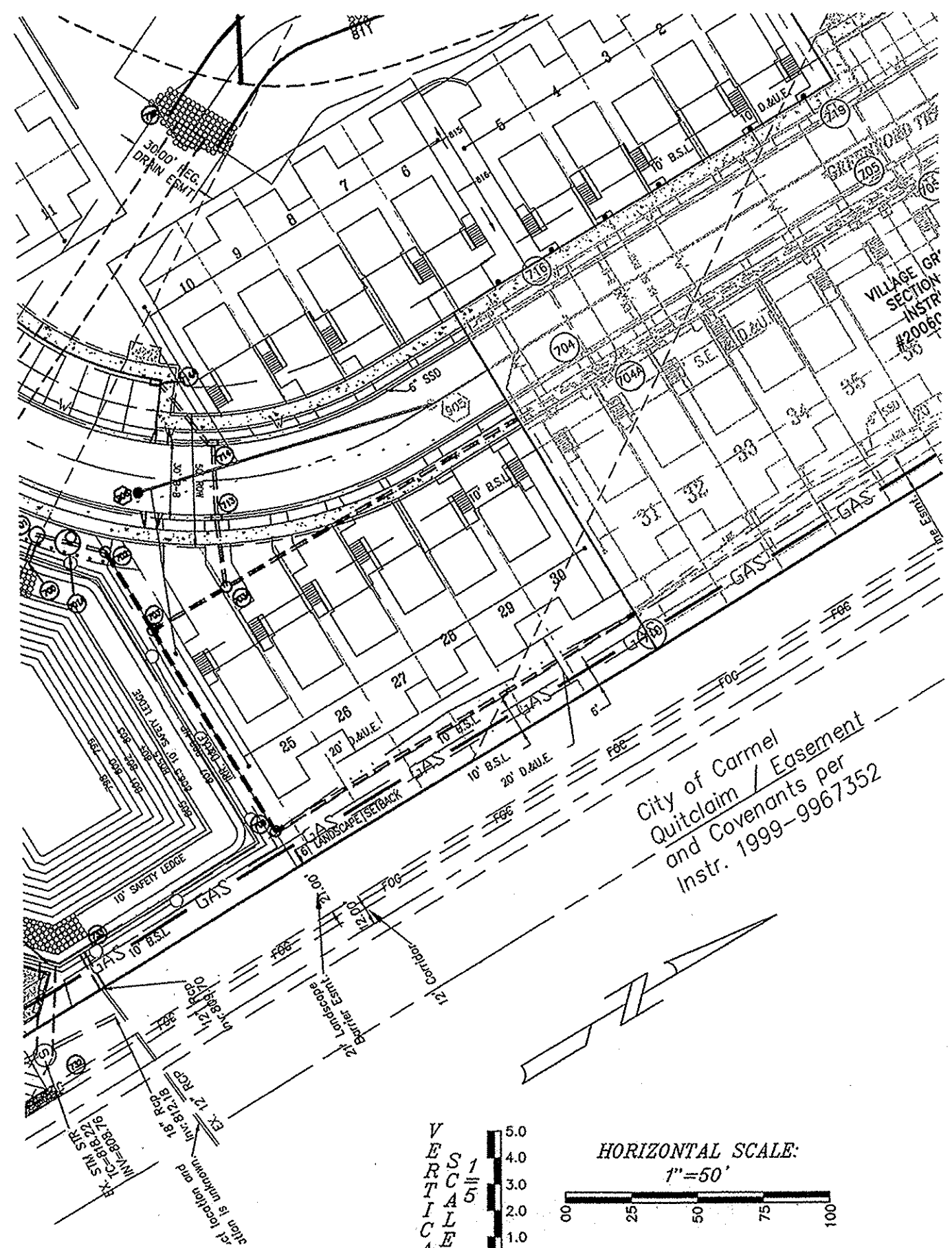
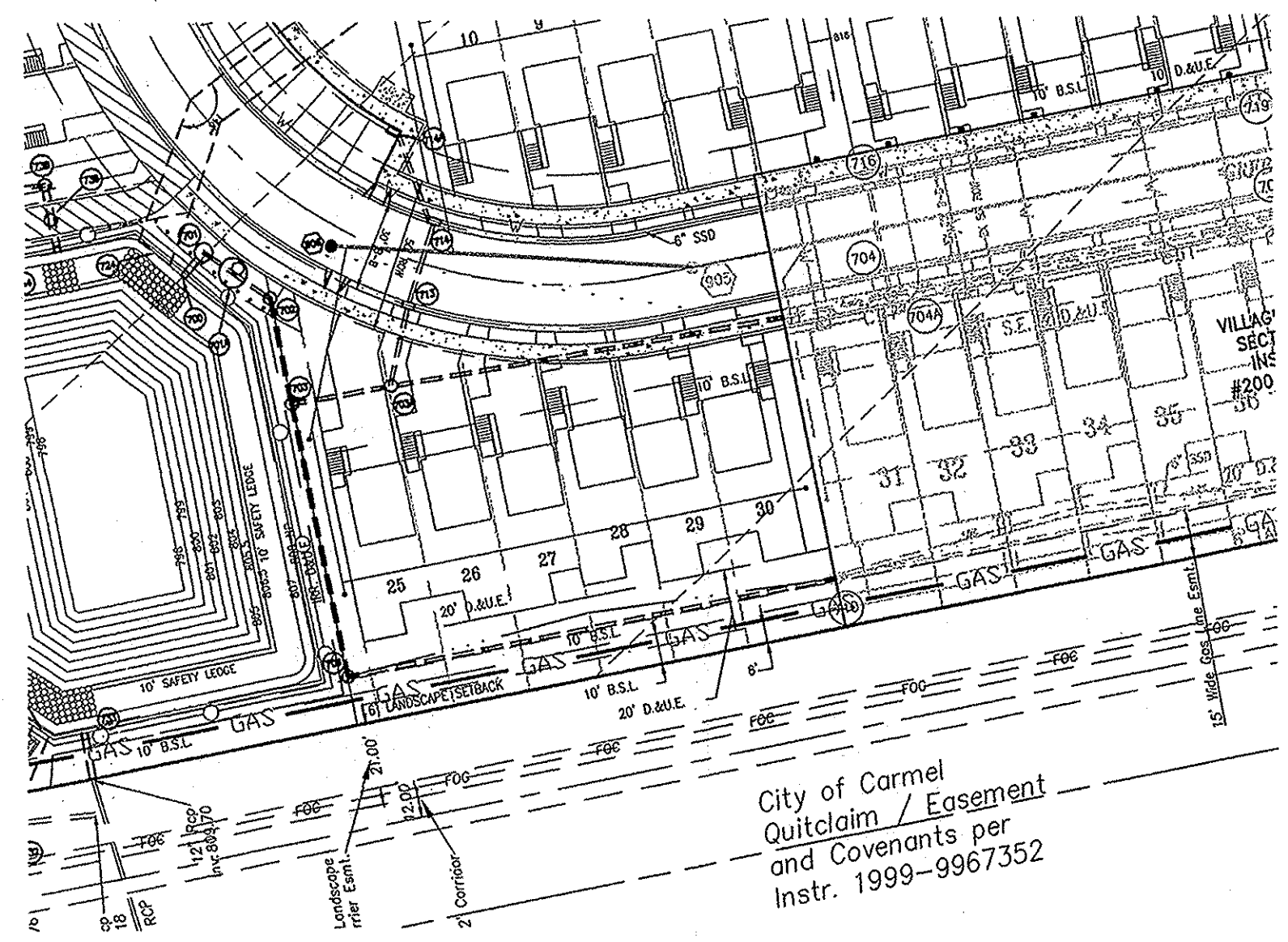
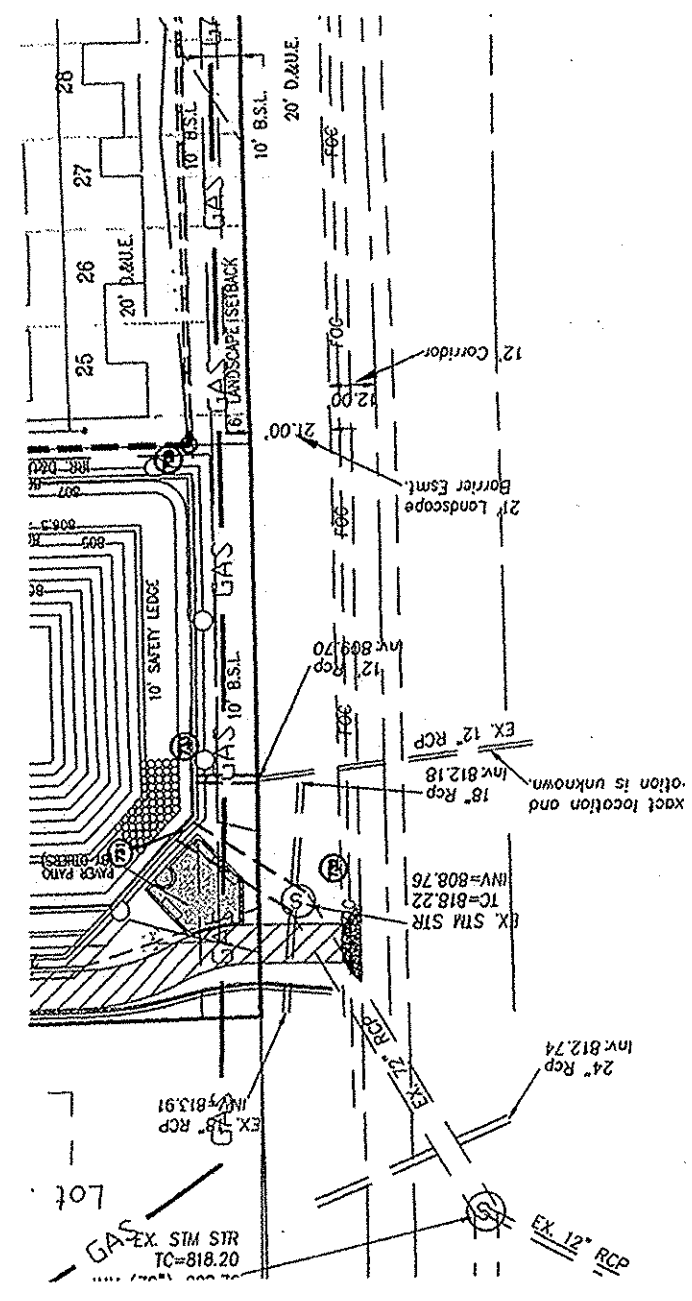
Bond-LC No: 014044368
Insured For: Storm Sewers
Amount: \$329,500
Issue Date: July 25, 2007

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

Sincerely,


Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm



825	825	825	STIM. STR. #701 SLO = 0+10.43 T.C. = 814.80 SOLID CASTING (R-1772 OR EQUIV.)	825	825	
820	820	820	STIM. STR. #704A SLO = 0+14.95 T.C. = 814.95	820	820	
815	815	815	STIM. STR. #703 SLO = 0+71.39 T.C. = 815.00 48\"/>			
810	810	810	STIM. STR. #709 SLO = 0+85.33 T.C. = 814.20	810	810	
805	805	805	STIM. STR. #705A SLO = 0+44.07 T.C. = 815.00 48\"/>			
800	800	800	STIM. STR. #704 SLO = 0+44.07 T.C. = 815.00 48\"/>			
795	795	795	STIM. STR. #703A SLO = 0+44.07 T.C. = 815.00 48\"/>			
790	790	790	STIM. STR. #704 SLO = 0+44.07 T.C. = 815.00 48\"/>			
785	785	785	STIM. STR. #704 SLO = 0+44.07 T.C. = 815.00 48\"/>			
780	780	780	STIM. STR. #704 SLO = 0+44.07 T.C. = 815.00 48\"/>			

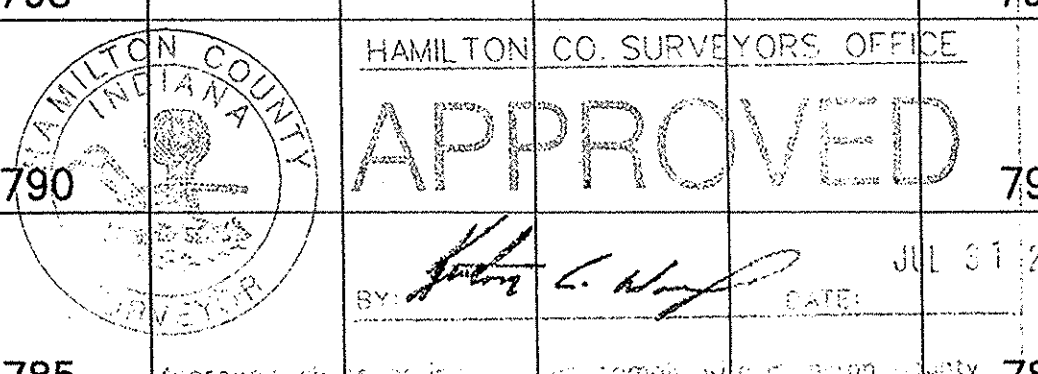
WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

BEDDING, HAUNCHING, INITIAL BACKFILL
Bedding, Haunching and initial backfill requirements and compaction for water mains, water service laterals, sanitary mains and sanitary service laterals shall be in accordance with the standards practice of the utility that has jurisdiction over the installation.

FINAL BACKFILL
Final backfill for water mains, water service laterals, sanitary mains and sanitary service laterals under and within 5-feet of pavement or sidewalk or other paved areas and for oil installations within City Right-of-way shall be B-Borrow for Structure Backfill meeting the material requirements of the INDOT. The material shall be approved by the City of Carmel Department of Engineering at time of installation. Final backfill shall be compacted in 6-inch maximum lifts to not less than 95% Standard Proctor Density for the entire depth of the material placed. The backfill for the top 6-inches of the excavation below the start of the aggregate sub-base of the pavement shall be No. 53 Stone meeting the material requirement of the INDOT and shall be compacted to not less than 95% Standard Proctor Density. If the standard practice of the utility that has jurisdiction over the installation has a more stringent backfill requirement, the more stringent requirement shall govern.

MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY
For installation of Storm Mains, Water Mains, Sanitary Mains, Water Service Laterals, Sanitary Service Laterals under City streets, regardless of jurisdiction of the utility, the minimum cover from the top of the installed pavement to the top of the installed pipe shall be the pavement section thickness (all bituminous and aggregate material above the subgrade) plus 1'-0", but under no circumstances shall the cover along any part of the pipe from the final pavement elevation to the top of the pipe be less than 2.5-feet. If the standard practice of the utility that has jurisdiction over the installation has a more stringent cover requirement, the more stringent requirement shall govern. Cover heights for reinforced concrete pipe storm sewers that are less than those required will be evaluated on a case by case condition and approved only with written permission by the city engineer.

* GRANULAR BACKFILL PER DETAIL "RCP TRENCH DETAIL FOR CITY STORM SEWERS," SHEET C602.



WEIHE ENGINEERS INC.
317.846.6611
FAX 317.843.0546
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
WWW.WEIHENET

ALLAN H. WEIHE, P.E., I.S. - PRESIDENT
CIVIL ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS

PROJECT NO.: W06-0862
DATE: 1-12-07

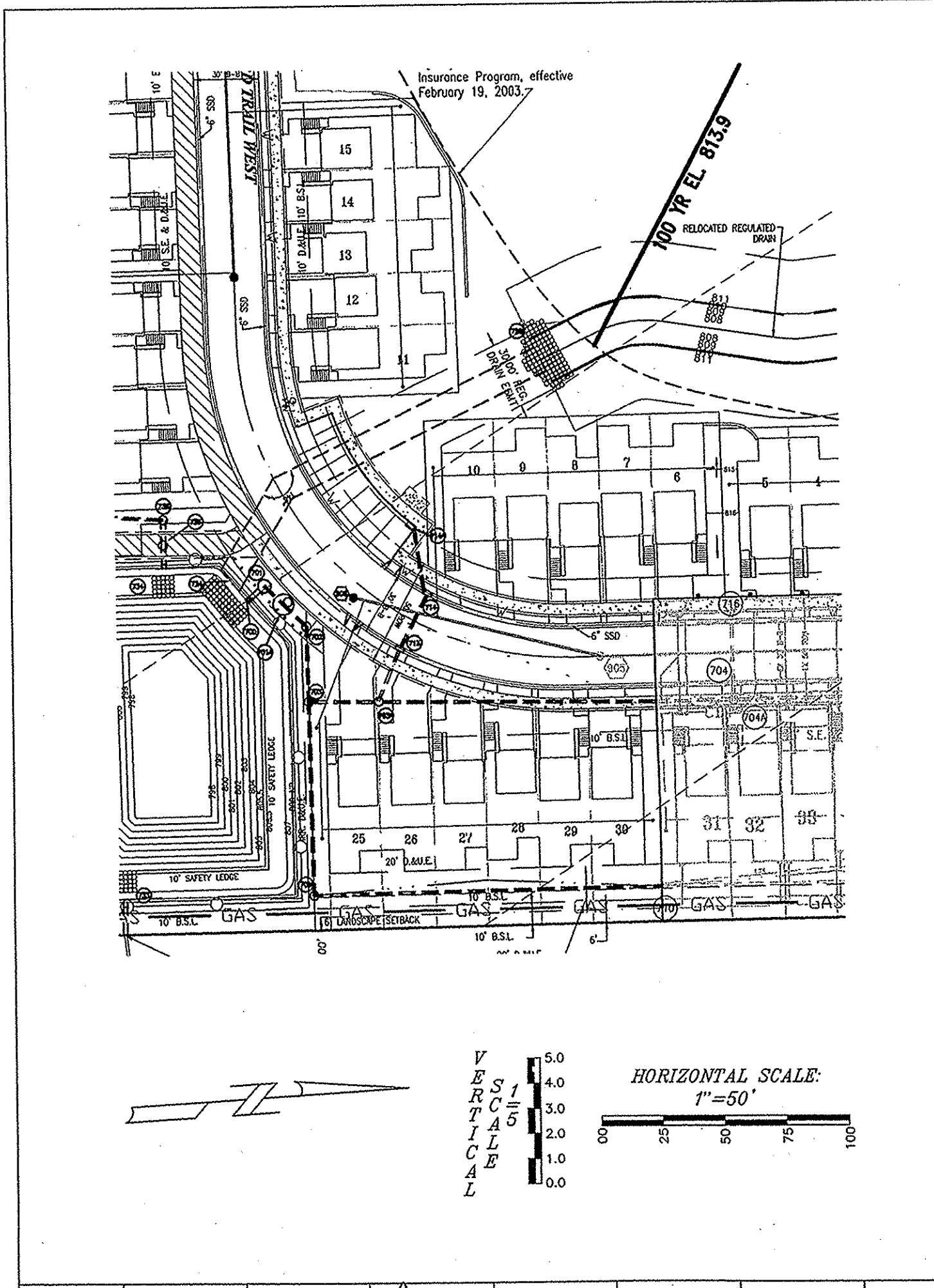
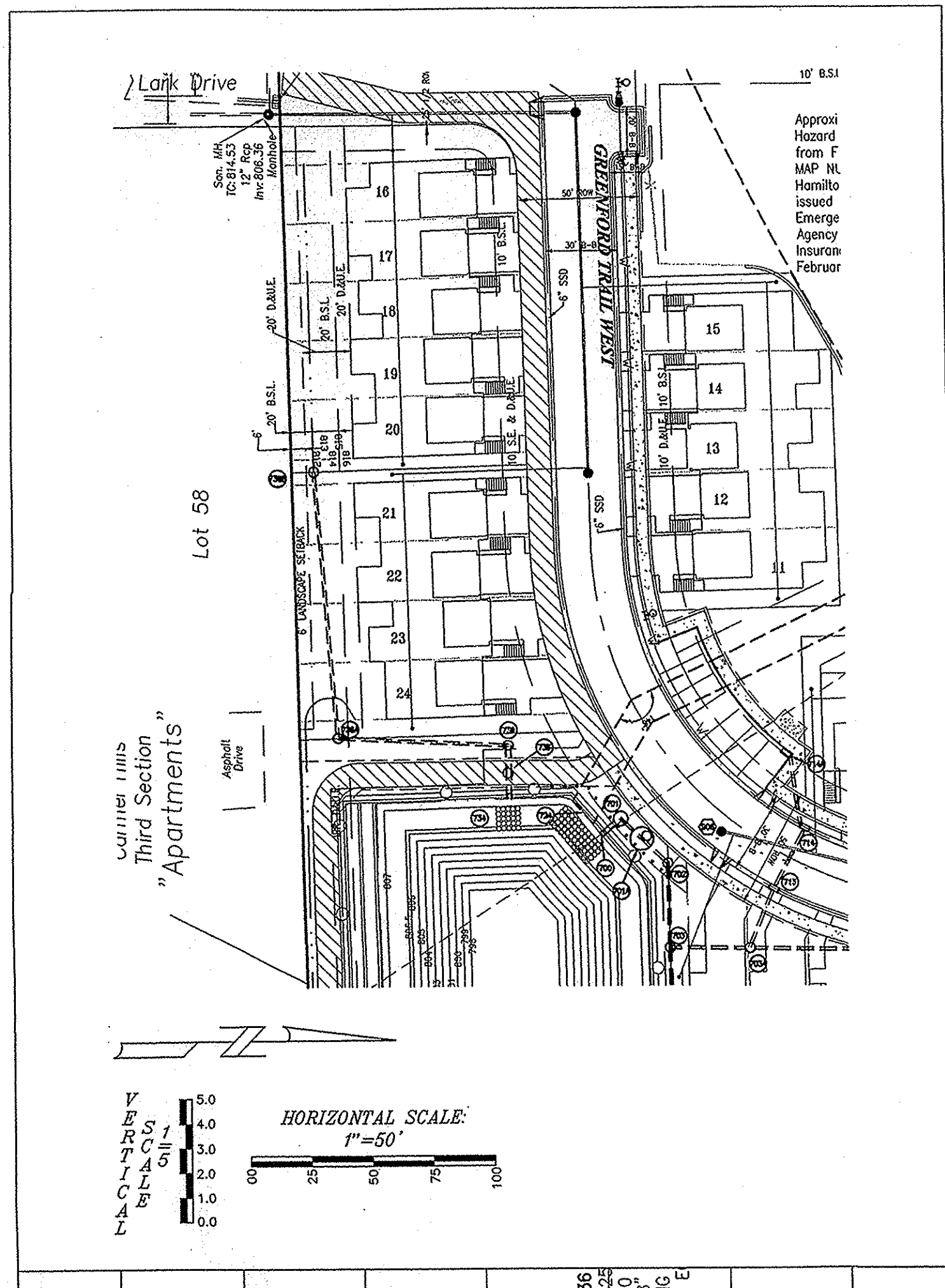
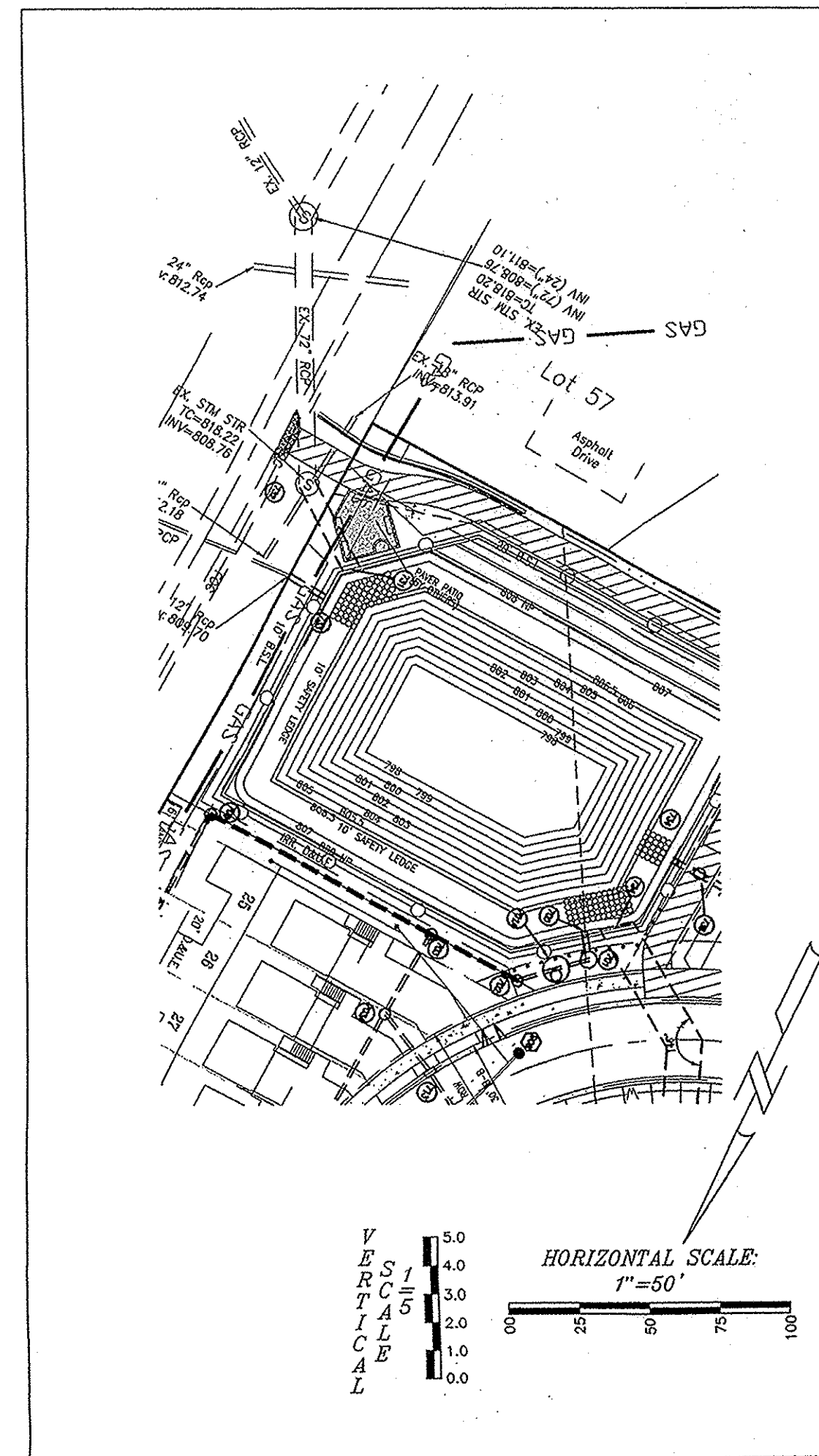
DATE: 4/19/07 DILL
BY: 6/05/07 TH
COMMENTS: 6/25/07 BMB
DESIGNED BY: 6/25/07 BMB
DRAWN BY: 6/25/07 BMB
CHECKED BY: JES
DATE: 1-12-07

REGISTERED PROFESSIONAL ENGINEER
No. PE10201393
STATE OF INDIANA
JAMES E. SHIELDS, JR.
JAMES E. SHIELDS, JR. P.E. 10201393

Prepared for:
Village Green Townhomes Section Two
DREES HOMES

STORM PLAN & PROFILE SHEET
A part of the E.I.P. of the R.F.D. Section 16, Township 16 North, Range 3 East, Hamilton County, Indiana.

SHEET NO. **C301**
PROJECT NO. W06-0862



830					830
825					825
820					820
815					815
810					810
805					805
800					800
795					795
790					790
	1+50	1+00	0+50	0+00	

PROPOSED GRADE
END OF PIPE #733
SLOPE = 0.0000
TOP OF WALL = 816.00
WL = 808.00

EXISTING GRADE
END OF PIPE #733
SLOPE = 0.0000
TOP OF WALL = 816.00
WL = 808.00

CONNECT EX. PIPE TO NEW PIPE.
EXISTING 12" RCP
INV = 809.70
SLOPE = 0.65%
MATCH SLOPE OF EX. PIPE

15' of 12" RCP @ 0.65%
SLOPE = 0.65%
MATCH SLOPE OF EX. PIPE

825					825		
820					820		
815					815		
810					810		
805					805		
800					800		
795					795		
790					790		
785					785		
780					780		
	2+50	2+00	1+50	1+00	0+50	0+00	

PROPOSED GRADE

EXISTING GRADE

109' of 12" RCP @ 0.58%

70' of 12" RCP @ 0.54%

11' of 12" RCP @ 0.51%

10' of 12" RCP @ 0.51%

STM. STR. #736B
T.C. = 814.79
SLOPE = 0.0000
DITCH CASTING
DITCH CASTING
(R-4215-C OR EQUIV)

STM. STR. #736A
T.C. = 816.50
SLOPE = 0.0000
MANHOLE
STANDARD 48"
(R-1772 OR EQUIV)

STM. STR. #735
T.C. = 814.50
SLOPE = 0.0000
STANDARD 48"
SOLID CASTING
(R-1772 OR E)

STM. STR. #734
T.C. = 815.50
SLOPE = 0.0000
BMP MECHANICAL UNIT
CONTECH VORTISENTRY VS 30

825					825		
820					820		
815					815		
810					810		
805					805		
800					800		
795					795		
790					790		
785					785		
780					780		
	0+00	0+50	1+00	1+50	2+00	2+50	

5.

FLOWABLE FILL REQ. UNDER ROADWAY

GRANULAR BACKFILL

PROPOSED GRADE

EXISTING GRADE

181' of 4' x 12" CONC @ 0.35%

26' of 4' x 12" CONC @ 0.35%

18" MIN

6" SSD

3/4" DEFLECTION

SLOPE = 11.32

END OF PIPE #728
SLOPE = 0.0000

END OF PIPE #728
SLOPE = 1.9059

TOP OF WALL = 814.00

NOTE: WATER LINE SHALL BE CONSTRUCTED PRIOR TO BOX CULVERT OR DIRECTIONALLY DRILLED AFTER BOX CULVERT CONSTRUCTION

HAMILTON CO. SURVEYORS OFFICE

APPROVED

DATE: 6/26/07

Approved by the professional engineer in compliance with Hamilton County Requirements and Design Standards and does not imply Drainage Board acceptance nor secondary plan approval.

* GRANULAR BACKFILL PER DETAIL "RCP TRENCH DETAIL FOR CITY STORM SEWERS," SHEET C602.

CITY OF CARMEL WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

BEDDING, HAUNCHING, INITIAL BACKFILL

Bedding, Haunching and initial backfill requirements and compaction for water mains, water service laterals, sanitary mains and sanitary service laterals shall be in accordance with the standard practice of the utility that has jurisdiction over the installation.

FINAL BACKFILL

Final backfill for water mains, water service laterals, sanitary mains and sanitary service laterals under and within 5-feet of pavement or sidewalk or other paved areas and for all installations within City right-of-way shall be 5-borrow for aggregate material meeting the material requirements of the INDOT. The material shall be approved by the City of Carmel Department of Engineering at time of installation. Final backfill shall be compacted in 6-inch maximum lifts to not less than 95% Standard Proctor Density for the entire depth of the material placed. The backfill for the top 6-inches of the excavation below the start of the aggregate sub-base of the pavement shall be No. 53 Stone meeting the material requirement of the INDOT and shall be compacted to not less than 95% Standard Proctor Density. If the standard practice of the utility that has jurisdiction over the installation has a more stringent backfill requirement, the more stringent requirement shall govern.

MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY

For installation of Storm Mains, Water Mains, Sanitary Mains, Water Service Laterals, Sanitary Service Laterals under City streets, regardless of jurisdiction of the utility, the minimum cover from the top of the installed pavement to the top of the installed pipe shall be the pavement section thickness (all bituminous and aggregate material above the substrate) plus 1'-0", but under no circumstances shall the cover along any part of the pipe from the final pavement elevation to the top of the pipe be less than 2.5-feet. If the standard practice of the utility that has jurisdiction over the installation has a more stringent cover requirement, the more stringent requirement shall govern. Cover heights for reinforced concrete pipe storm sewer that are less than those required will be evaluated on a case by case condition and approved only with written permission by the city engineer.

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TOLL FREE 800.452.6408
ALLAN H. WEIHE, P.E., L.S. - PRESIDENT
LAND SURVEYORS LANDSCAPE ARCHITECTS
CIVIL ENGINEERS

PROJECT NO. W06-0862
DATE 4/19/07
BY DPL
CHECKED BY JAW/PK/VD
DATE 1-12-07

REVISIONS AND ISSUES
DATE BY DESCRIPTION
4/19/07 DPL W06-0862
6/11/07 DPL
6/25/07 BMB
8/25/07 BMB

APPROVED BY: JAMES E. SHIELDS, JR.
REGISTERED PROFESSIONAL ENGINEER
No. PE10201333
STATE OF INDIANA

PREPARED FOR: DREES HOMES
Village Green Townhomes Section Two
STORM PLAN & PROFILE SHEET
A part of the S&P of the 16 1/2' Section 25, Township 18 North, Range 9 East, Hamilton County, Indiana.

SHEET NO. C302
PROJECT NO. W06-0862

LOCATION: I:\Projects\W060862\W060862.dwg
DATE: 6/26/07
DRAWN BY: JAW
CHECKED BY: JAW/PK/VD
PLOTTED BY: JAW