Lakeside Park Section 5, 6, 7 GASB 34 Calculation

Stultz & Almond Drain- Lakeside Park Section 5: 909 ft Elliott Creek Drain-Lakeside Park Section 5: 5625

Total Footage = 6534.00 **Bond Amount** = \$160,633.24

Stultz & Almond Drain- Lakeside Park Section 5: (.14 x \$160,633.24) = \$22,488.66 Elliott Creek Drain-Lakeside Park Section 5: (.86 x \$160,633.24) = \$138,144.58

Stultz & Almond Drain- Lakeside Park Section 6: 1974 ft Elliott Creek Drain-Lakeside Park Section 6: 650 ft JW Brendle Drain-Lakeside Park Section 6: 1565 ft

Total Footage = 4189 ft Bond Amount = \$141,969.35

Stultz & Almond Drain- Lakeside Park Section 6: (.47 x \$141,969.35) = \$66,725.59 Elliott Creek Drain-Lakeside Park Section 6: (.16 x \$141,969.35) = \$22,715.10 JW Brendle Drain-Lakeside Park Section 6: (.37 x \$141,969.35) = \$52,528.66

Stultz & Almond Drain- Lakeside Park Section 7: 1800 ft JW Brendle Drain-Lakeside Park Section 7: 3612 ft

Total Footage = 5412 ft **Bond Amount** = \$101,677.21

Stultz & Almond Drain- Lakeside Park Section 7: (.33 x \$101,677.21) = \$33,553.48 JW Brendle Drain-Lakeside Park Section 7: (.67 x \$101,677.21) = \$68,123.73

Note: Bonds were posted at 120% of the engineers estimate. This dollar amount is based upon the engineer's estimate.



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

October 17, 2007

TO: Hamilton County Drainage Board

RE: J. W. Brendel Drain, Lakeside Park Section 7 Arm

Attached is a petition filed by Roehling Enterprises, Inc. along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Lakeside Park Section 7 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:

6"	SSD	2,790 ft.	18" RCP	147 ft.
12"	RCP	147 ft.	24" RCP	160 ft.

The total length of the drain will be 3,612 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 \$10.00 per acre for common areas and platted lots, \$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 \$1,534.00.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Letter of Credit are as follows:

Agent: Huntington National Bank Date: June 18, 2007 Number: OSB.004527 For: Storm Sewers Amount: \$90,653.00

Parcels 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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Lakeside Park Section 7 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 26, 2007.

Kenton C. Ward, CFM Hamilton County Surveyor KCW/pll

STATE OF INDIANA

COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor One Hamilton County Square, Suite 188

Noblesville, IN, 46060-2230

In the matter of	Lakeside Park Subdivision	Subdivision, Section
6 & 7	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 <u>Lakeside Park Subdivision</u>, Section 6 & 7, 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 or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's 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.
- 3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
- 4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
- 5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

SEP 0 5 2006

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Ræfling Signed

Ray Roehling Printed Name

September 1, 2006

Date

Signed

Printed Name

Date

Date

Signed

Date

Signed

Printed Name

Printed Name

Adobe PDF Fillable Form

12524



David J. Stoeppelwerth President, CEO Professional Engineer Professional Land Surveyor

Curtis C. Huff Vice President, COO Professional Land Surveyor

R.M. Stoeppelwerth Founder Professional Engineer Professional Land Surveyor

STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

June 8, 2007

Hamilton County Surveyor One Hamilton County Square Suite 188 Noblesville, Indiana 46060

Attention: Kent Ward

Re: Lakeside Park Subdivision, Section 7

Dear Mr. Ward:

Please accept the following Engineer's Estimate for Lakeside Park Subdivision, Section 7. The amounts are as follows:

Lakeside Park Subdivision, Section 7 Engineer's Estimate

Description ON SITE STORM	Quantity	Unit	Unit Price	Total
Storm Sewer 12" – 0-6Ft	671	LF	\$14.36	\$9,635.56
Storm Sewer 15" – 0-6Ft	148	LF	\$20.79	\$3,076.92
Storm Sewer 18" – 0-6Ft	147	LF	\$22.07	\$3,244.29
Storm Sewer 21" – 0-6Ft	61	LF	\$32.84	\$2003.24
Storm Sewer 24" – 0-6Ft	160	LF	\$28.97	\$4,635.20
24 X 24 Box Structure	15	EA	\$1,284.00	\$19,260.00
Rip-Rap	10	TONS	\$50.00	\$500.00
21" End-Section	1	EA	\$650.00	\$650.00
6" Curb Drain	3500	LF	\$8.50	\$29,750.00
4" Lateral Drain	29	EA	\$45.00	\$1,305.00
Flush - Video	1	LS	\$1,484.00	\$1,484.00
Tota	L .			\$75,544.21
Description EROSION CONTROL	Quantity	Unit	Unit Price	Total

149,225

10,150

SOFT

SQFT

\$17,907.00

\$1,218.00

\$0.12

\$0.12

7965 East 106th Street Fishers, Indiana 46038-2505

317.849.5935 Fax: 317.849.5942 www.Stoeppelwerth.com

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

Permanent Seeding

R/W Seeding

Hamilton County Surveyor Kent Ward June 8, 2007 Page 2 of 2

 Silt Fence
 4,380
 LF
 \$1.60
 \$7,008.00

 Monuments and Markers
 11
 EA
 \$150.00
 \$1,650.00

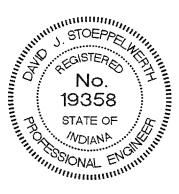
 Total
 \$27,783.00

Total

\$103,327.21

Witness my signature this <u>8th</u> day of <u>June</u>, 2007.

David J. Stoeppelwerth Professional Engineer No. 19358



 $S:\label{eq:scalar} S:\label{eq:scalar} S:\l$

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

J. W. Brendel Drain, Lakeside Park Section 7 Arm

On this 26th day of November, 2007, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the J. W. Brendel Drain, Lakeside Park Section 7 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.

OUNTY DRAINAGE BOARD HAMI

President

Member

Member

Attest: Seprette Mostauch

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

J. W. Brendel Drain, Lakeside Park Section 7 Arm

NOTICE

To Whom It May Concern and:

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the J. W. Brendel Drain, Lakeside Park Section 7 Arm on November 26, 2007 at 9:10 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

J. W. Brendel Drain, Lakeside Park Section 7 Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 26, 2007** 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: Lakeside Park Subdivision, Section 7

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.
- 5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Date: November 16, 2007 Signature: (

Type or Print Name: Dennis D. Olmstead

Business Address: Stoeppelwerth & Associates, Inc.

7965 East 106th Street, Fishers, Indiana 46038

Telephone Number: (317) 849-5935



INDIANA REGISTRATION NUMBER

900012



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

September 25, 2008

Re: JW Brendle Drain: Lakeside Park Section 7

Attached are as-builts, certificate of completion & compliance, and other information for Lakeside Park Section 7. 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 October 17, 2008. The report was approved by the Board at the hearing held November 26, 2007. (See Drainage Board Minutes Book 10, Pages 506-507) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes:
225-226	30	12	RCP	910.2	909.98	0.73	-1
226-227	145	18	RCP	909.98	909.22	0.52	-2
230-229	145	12	RCP	912.09	911.04	0.72	
229-228	31	12	RCP	911.04	910.84	0.65	·
228-227	148	12	RCP	910.84	909.22	1.09	2
233-234	30	12	RCP	911.7	911.61	0.3	
234-227	131	12	RCP	911.61	909.22	1.82	
227-231	163	24	RCP	909.22	908.78	0.27	3
6" SSD Streets:						RCP Pipe	
Amblewind	401					12	515
April Springs	327					18	145
Field Shire	392					24	163
x2						Total:	823
Total:	2240					-	

The length of the drain due to the changes described above is now 3063 feet.

The non-enforcement was approved by the Board at its meeting on November 26, 2007 and recorded under instrument # 2007066460.

The following sureties were guaranteed by Huntington National Bank and released by the Board on its August 13, 2007 meeting.

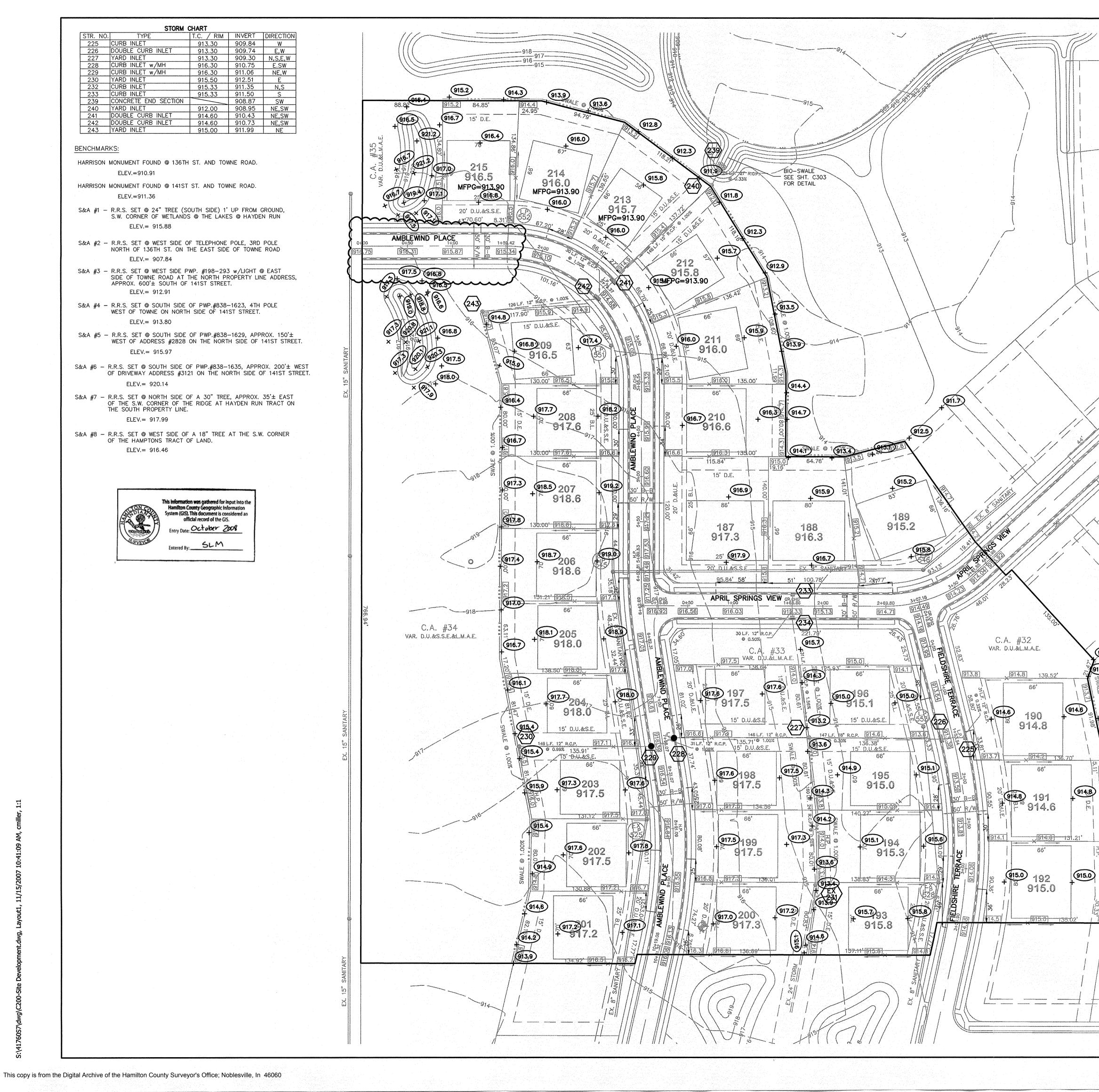
Bond-LC No: OSB.004527 Insured For: Storm Sewers Amount: \$90,653.00 Issue Date: June 18, 2007

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

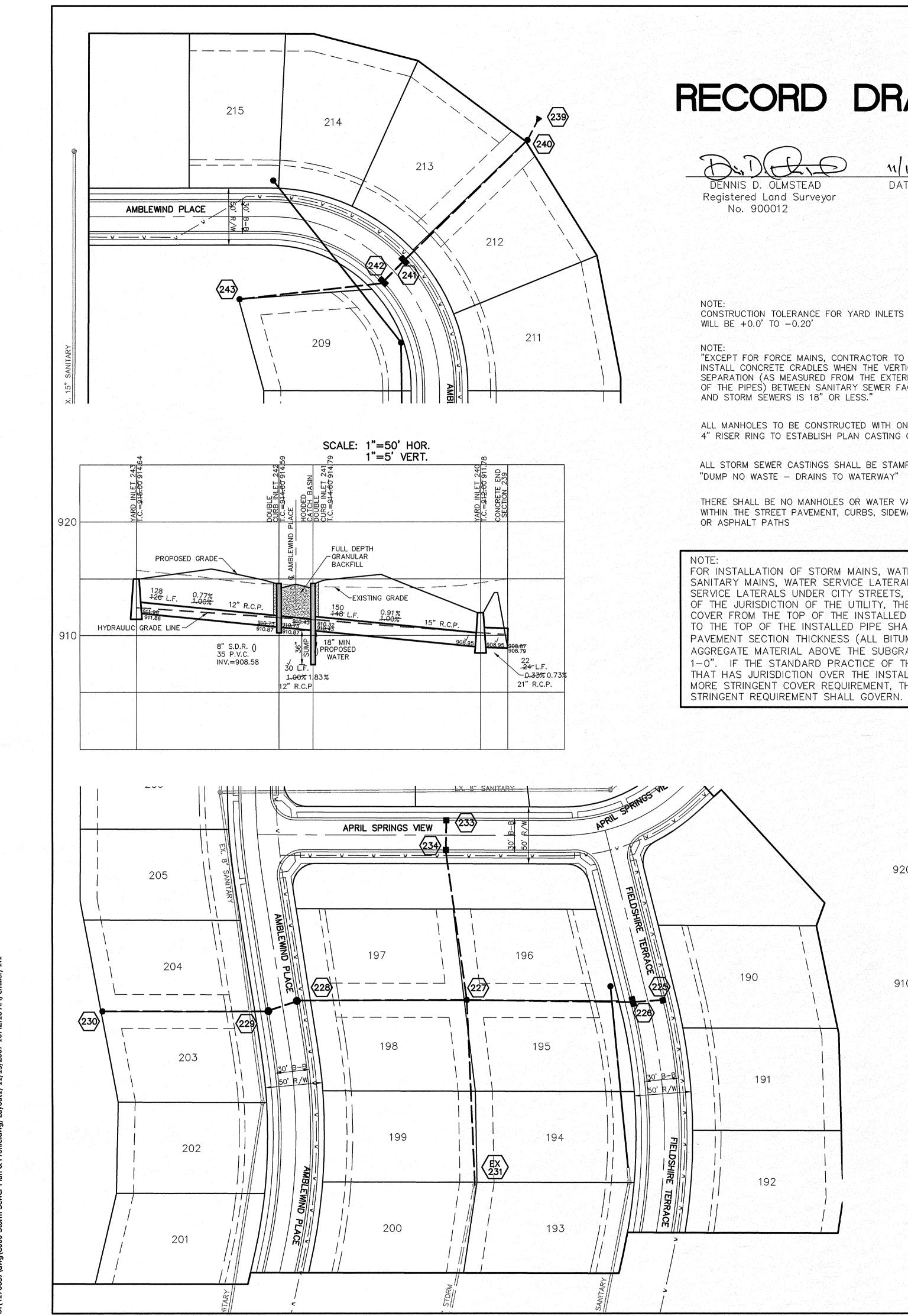
Sincerely,

Kenton C/Ward, CFM Hamilton County Surveyor

KCW/slm



LEGEND EXISTING EDGE OF WOODS EXISTING CONTOUR EXISTING SANITARY SEWER EXISTING STORM SEWER PROPOSED GRADE 848.0 MATCH EXISTING M.E. ------ PROPOSED CONTOUR PROPOSED SANITARY SEWER SCALE: 1"= 50' --- --- PROPOSED STORM SEWER ------ PROPOSED SWALE PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS) 100 LOT NUMBER 874.1 PAD ELEVATION PAD SIZE: 60'X60' (UNLESS OTHERWISE NOTED) 282 M.F.P.G. = XXX.XX MIN. FLOOD PROTECTION GRADE STOEPP FGISTERA DENOTES 4" SUBSURFACE DRAIN TO LOT No. 19358 DENOTES 6" SUBSURFACE DRAIN STATE OF -ROLL CURB WDIANA. SONAL P NOTE: MIN. FLOOD PROTECTION GRADES OF ALL STRUCTURES FRONTING POND #2 SHALL BE NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100-YR. LOCAL OR REGIONAL FLOOD ELEVATION (WHICHEVER IS GREATER FOR ALL WINDOWS, DOORS, PIPE ENTRANCES, WINDOW WELLS, ETC.) ALL PADS SHALL BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCEN OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD. ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW. INC. ANY OF THESE TILES WILL NEED TO BE LOCATED; BREATHERS SET AT THE PROPERTY LINES, CRUSHE OR REMOVED ACROSS THIS SITE. IF ANY TILES EXTEND BEYOND THIS SITE, THEY WILL NEED A OSITIVE OUTLET TO CONTINUE TO FUNCTION. ATE AND Š NOTE S 8 PER HCSO, THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO & EASEMENTS BETWEEN LOTS. RTH $\widehat{}$ لسا JLTING 9940 AII STOEPPEL CONSUL **RECORD DRAWING** 913.4 D. OLA 11/15/07 913.8 CKIR No. DATE 900012 DENNIS D. OLMSTEAD 913.8 STATE OF Registered Land Surveyor WDIANA. No. 900012 SURVE 913.1 ASBUILT GRADE ELEV 912.3 Z 912.7 4 Ω NOTE TO CONTRACTOR CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM **PARI** SEVEN 913.3 VELOPMENT THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. 913.6) NOIT SID CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO CHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT' CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO AKE SECT REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO (13.3) WORK WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY. Ш О 913.0 "HOLEY MOLEY" CAUTION SAYS: Ш Н 914.3 LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE. (including, $\overline{\mathcal{O}}$ but not limited to, manholes, inlets, valves, & marks made upon the ground by others.) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISITING UNDERGROUND UTILIITIES 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 1-800-382-5544 SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION. CALL TOLL FREE 1-800-428-5200 CHECKED BY DRAWN BY: JDH FOR CALLS OUTSIDE OF INDIANA CONTACT: CARMEL UTILITIES SHEET NO. $\frown \frown \frown \frown \frown$ (317) 571-2648 FOR WATER LOCATES しんしし s & a job no. 41760S7



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RECORD D	RAWING	PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	
		12" to 18"	2'x2'	
	D. OLMONT	18" or 21"		
DENNIS D. OLMSTEAD	MISOT BUSTERIS DATE 900012	21" or 27"	2'x3'*	
Registered Land Surveyor No. 900012	STATE OF WIANA OF WIANA	24" or LARGER	DESIGN APPROVAL	
	SURV Finne	24" or LARGER		
			R THAN 18" CAN BE USED IN OUT GOING PIPES EFFECT STEP	

CONSTRUCTION TOLERANCE FOR YARD INLETS

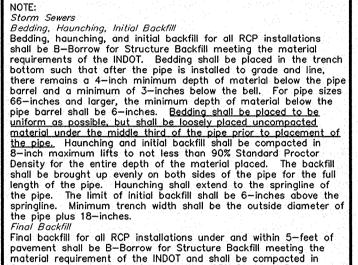
INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS."

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING TO ESTABLISH PLAN CASTING GRADE.

ALL STORM SEWER CASTINGS SHALL BE STAMPED "DUMP NO WASTE - DRAINS TO WATERWAY"

THERE SHALL BE NO MANHOLES OR WATER VALVES WITHIN THE STREET PAVEMENT, CURBS, SIDEWALKS,

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE 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". IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.



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 subbase of the pavement shall be No. 53 Stone meeting the material requirements of the INDOT and shall be compacted to not less then 95% Standard Proctor Density. Final Backfill for all RCP installations greater than 5-feet of avement shall be clean fill material free of rocks larger than 6-inches in diameter, frozen lumps of soil, wood or other extraneous material, compacted in 12-inch maximum lifts to not less than 90% Standard Proctor Density for the entire depth of

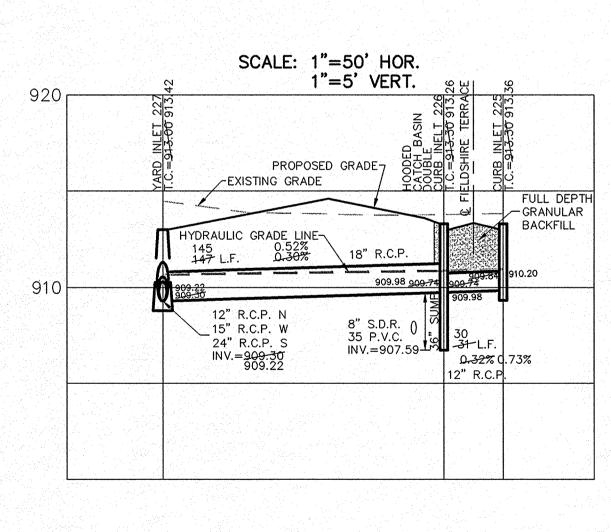
S: \Legal\Carmel RCP Installation Review02-01-05\Storm

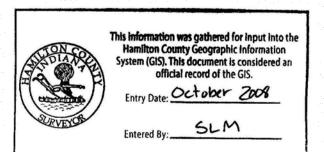
he excavation

wers.doc

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

NOTE: ALL 36" HOODED SUMP CATCH BASIN TO BE 48" MANHOLES PER H.C.S.O.





920

910

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