Lakeside Park Section 4 GASB 34 Calculation

JW Brendle Drain-Lakeside Park Section 4: 895 feet Elliott Creek Drain -Lakeside Park Section 4: 7409 feet

Total Footage = 8304 **Bond Amount** = \$174,714.27

JW Brendle Drain-Lakeside Park Section 4: .11(\$174,714.27) = \$19,218.57

Elliott Creek Drain – Lakeside Park Sec. 1 Relocation: .89(\$174,714.27) = \$155,495.70

Note: Bonds were posted at 120% of the engineers estimate. This dollar amount is based upon the engineer's estimate. Also, on Engineer's Estimate -4''ssd was listed. This was subtracted from the above listed dollar amount.





Kenton C. Ward, Surveyor Phone (317) 776-8495 Fax (317) 776-9628

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

August 23, 2005

TO: Hamilton County Drainage Board

RE: Elliott Creek Drain, Lakeside Park Section 4 Arm

Attached is a petition filed by Roehling Enterprises along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Lakeside Park Section 4 Arm, Elliott Creek 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	4,903 feet	21" RCP	470 feet
12" RCP	923 feet	24" RCP	150 feet
15" RCP	270 feet	27" RCP	359 feet
18" RCP	334 feet		

The total length of the drain will be 7,409 feet.

The retention pond (Lake #6) located in Common Area #25 is to be considered part of the regulated drain. Pond maintenance shall include inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The Maintenance of the pond (lake) such as mowing and aquatic vegetation control will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond (lake) was designed will be retained. Thereby, allowing no fill or easement encroachments.

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 easement (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 \$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 \$2,562.10

The petitioner has 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: March 4, 2005 Number: OSB-003272 For: Storm Sewers Amount: \$143,310.00

Agent: Huntington National Bank

Date: March 22, 2005 Number: OSB-033297 For: Sub-surface Drains Amount: \$28,731.00 Agent: Huntington National Bank

Date: March 22, 2005 Number: OSB-003299 For: Erosion Control Amount: \$31,498.00

Parcels assessed for this drain may be assessed for the Osborn & Collins or Williams Creek 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 4 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 23, 2006.

Kenton C. Ward

Hamilton County Surveyor

KCW/pl1

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Elliott Creek Drain, Lakeside Park Section 4 Arm

On this **23rd** day of January 2006, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Elliott Creek Drain**, Lakeside Park Section 4 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 Sepette Maskaul

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF Elliott Creek Drain, Lakeside Park Section 4 Arm

NOTICE

Го	Whom	Ιt	May	Concern	and:	

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Elliott Creek Drain, Lakeside Park Section 4 Arm on January 23, 2006 at 10:20 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

Elliott Creek Drain, Lakeside Park Section 4 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 23**, 2006 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

I hereby certify that:

Re: Lakeside Park Subdivision, Section 4

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. Type or Print Name: Jeffory W. Darling Business Address: Stoeppelwerth & Associates, Inc. 9940 Allisonville Road, Fishers, Indiana 46038 Telephone Number: (317) 849-5935 **SEAL** INDIANA REGISTRATION NUMBER 900017



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

February 8, 2007

Re: Elliott Creek Drain, Lakeside Park Section 4

Attached are as-builts, certificate of completion & compliance, and other information for Lakeside Park Section 4. 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 August 23, 2005. The report was approved by the Board at the hearing held January 23, 2006. (See Drainage Board Minutes Book 9, Pages 54-55) The changes are as follows:

U							
Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
197-196	38	12	RCP	911.79	910.88	0.24	900(11)
196-195	301	12	RCP	910.88	909.98	0.57	2
195-194	151	18	RCP	909.98	908.95	0.68	1
194-193	30	21	RCP	908.95	908.7	0.83	
193-157	150	24	RCP	908.7	908.07	0.42	
183-182	142	12	RCP	909.56	908.4	0.82	-1
182-181	30	15	RCP	908.4	908.02	1.27	
181-180	45	15	RCP	908.02	906.06	4.36	-5
172-171	30	12	RCP	908.36	906.05	2.06	
171-170	126	12	RCP	908.36	906.05	2.06	-4
173-174	31	12	RCP	906	905.9	0.32	-10
174-175	30	12	RCP	905.9	905.8	0.33	
175-160	181	12	RCP	905.8	903.75	1.13	-1
190-189	148	15	RCP	909.74	909.1	0.43	
189-188	36	18	RCP	909.1	908.9	0.56	
188-187	441	21	RCP	908.9	907.11	0.41	1
187-186	281	27	RCP	907.11	906.53	0.21	2
186-185	30	27	RCP	906.53	906.39	0.47	
185-184	53	27	RCP	906.39	905.86	1	3
192-191	30	12	RCP	908.55	908.18	1.23	
191-187	193	15	RCP	908.18	907.11	0.55	3

6" SSD Streets:

RCP Pipe Totals:

Heathermore	586.5
4 Seasons	582.5
Shallow	
Brook	147
Twin Lakes	1010.5
x2	

Total:	4653

12	909
15	416
18	187
21	471
24	150
27	364

Total: _____ 2497

The length of the drain due to the changes described above is now 7,150 feet.

The non-enforcement was approved by the Board at its meeting on January 23, 2006 and recorded under instrument #20060004907.

The following sureties were guaranteed by Huntington National Bank and released by the Board on its January 9, 2006 meeting.

Bond-LC No: OSB-003272 **Insured For:** Storm Sewers

Amount: \$143,310.00

Issue Date: March 4, 2005

Bond-LC No: OSB-003297

Insured For: Sub-surface Drains

Amount: \$28,731.00

Issue Date: March 22, 2005

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

Sincerely,

Kenton C. Ward,

Hamilton County Surveyor

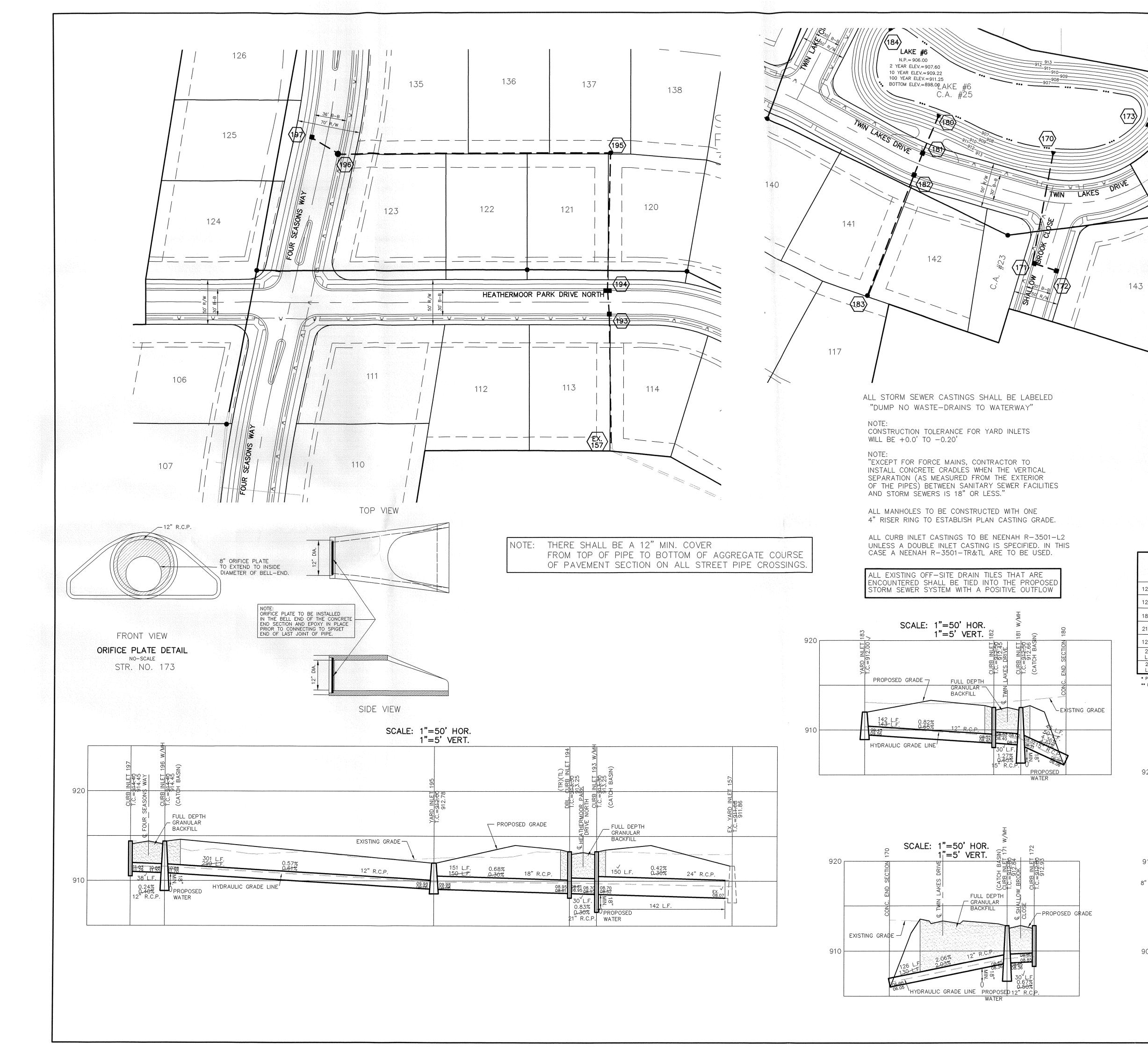
Bond-LC No: OSB-003299

Issue Date: March 22, 2005

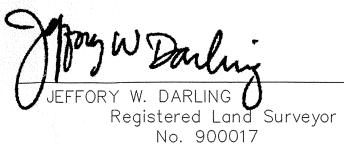
Amount: \$31,498.00

Insured For: Erosion Control

KCW/slm



RECORD DRAWING



8/10/05 DATE

900017 STATE OF

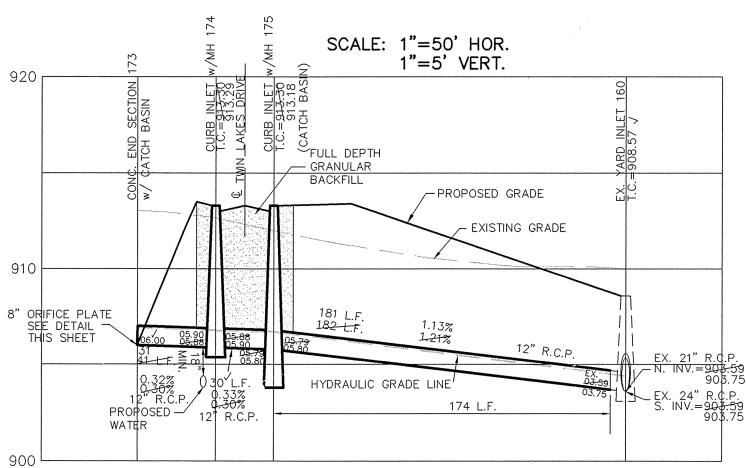
SCALE: 1"= 50'

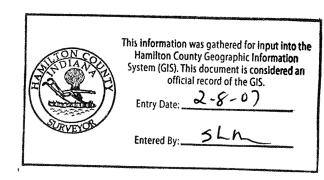
CURB INLET TABLE

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"×24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"x30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"×36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" or LARGER		мн/вох	DESIGN APPROVAL	Yes**	Yes	Yes

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX ** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

STEUAL NUTE:
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED. SPECIAL NOTE:
STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES SPECIAL NOTE:
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER
STRUCTURE IS SET, TO IMPROVE ACCESS.





PROFILE FOUR TION \approx AN SE ARK AKESIDE TORM S

LAND SURVEYORS
7 FAX: (317) 849-5942

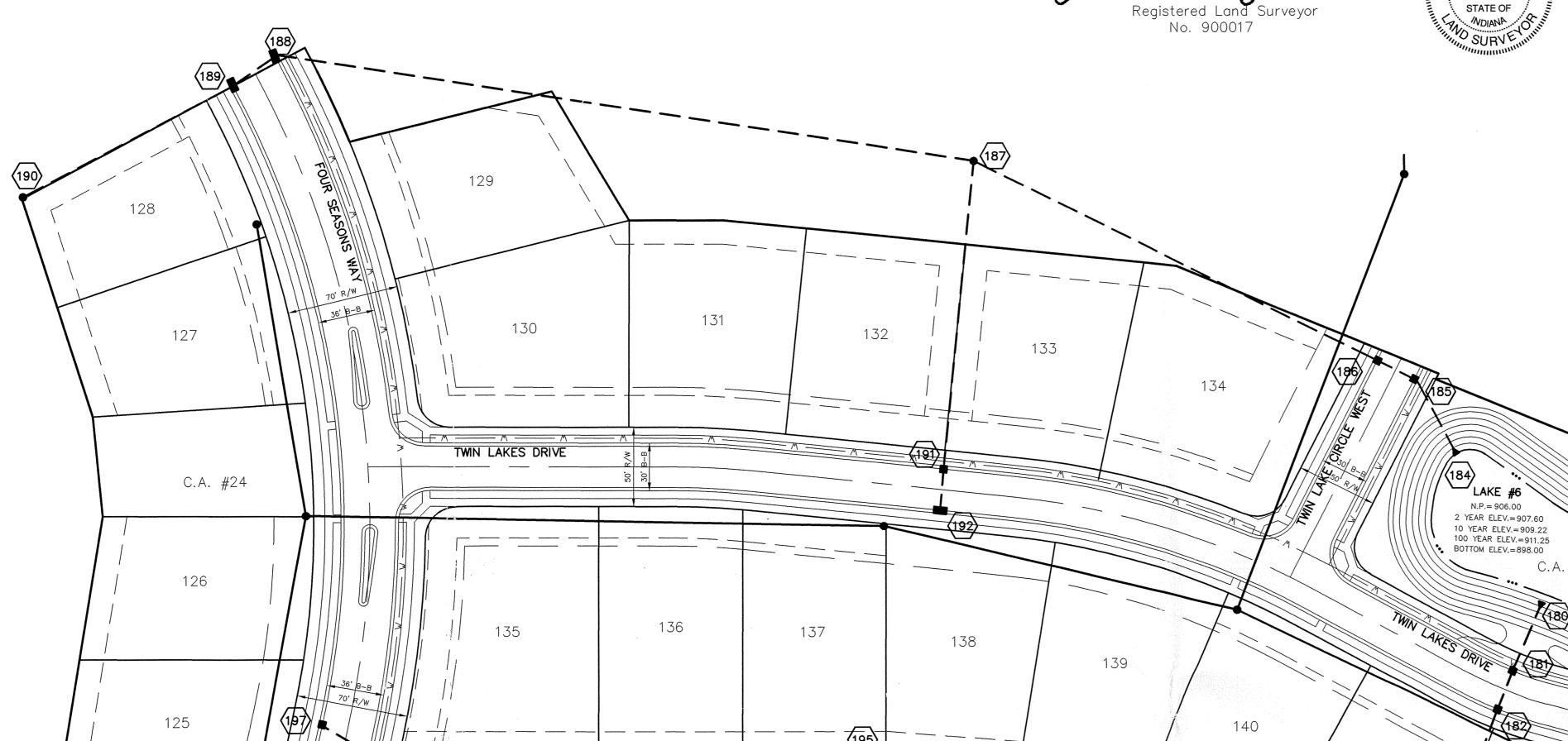
ENGINEERS 1-800-728-6

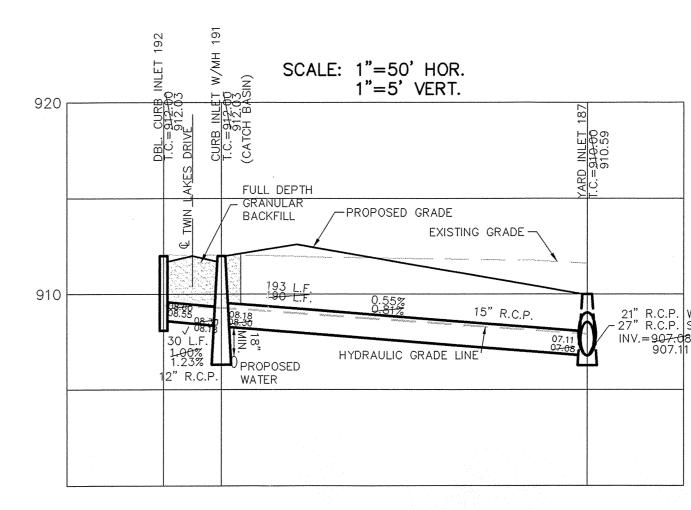
CONSULTIN (317) 849-59

SHEET NO. C600 JOB NO. 41760S4

No. 900017







	SCALE: 1"= 50'
, R.C.P. W. , R.C.P. SE. , = 907.08 907.11	NO. 19358 STOEPOS MOINTE OF ACTION OF THE PROPERTY OF THE PROP
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CURB INLET TABLE

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	24"×24"		DESIGN APPROVAL	No	Yes	Yes
12" to 21"	30"×30"		DESIGN APPROVAL	No	Yes	Yes
18" to 21"		мн/вох	DESIGN APPROVAL	Yes	Yes	Yes
21" to 27"	24"x36"		DESIGN APPROVAL	No	No	Yes
12" to 24"	36"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" or		MH /BOX	DESIGN	Yes**	Yes	Yes

* PIPES NO LARGER THAN 13" CAN BE USED IN THE 2' SIDE OF THIS BOX ** INCOMING AND OUT GOIN, PIPES EFFECT STEPS IN THIS STRUCTURE

SPECIAL NOTE:

STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPRO SPECIAL NOTE:

STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES SPECIAL NOTE:

COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

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

NOTE: CONSTRUCTION TOLERANCE FOR YARD INLETS WILL BE +0.0' TO -0.20'

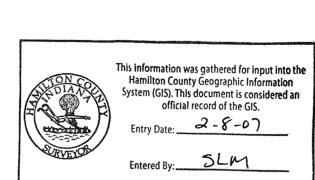
NOTE:
"EXCEPT FOR FORCE MAINS, CONTRACTOR TO
INSTALL CONCRETE CRADLES WHEN THE VERTICAL
SEPARATION (AS MEASURED FROM THE EXTERIOR
OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES
AND STORM SEWERS IS 18" OR LESS."

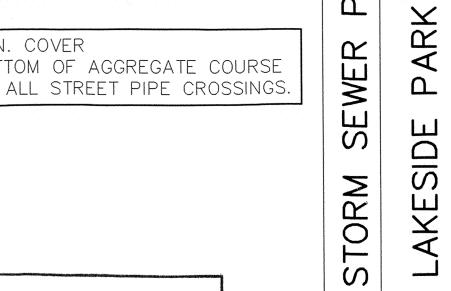
ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING TO ESTABLISH PLAN CASTING GRADE.

ALL CURB INLET CASTINGS TO BE NEENAH R-3501-L2 UNLESS A DOUBLE INLET CASTING IS SPECIFIED. IN THIS CASE A NEENAH R-3501-TR&TL ARE TO BE USED.

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

TE: THERE SHALL BE A 12" MIN. COVER
FROM TOP OF PIPE TO BOTTOM OF AGGREGATE COURSE
OF PAVEMENT SECTION ON ALL STREET PIPE CROSSINGS.





SHEET NO.

C601

JOB NO. 41760S4

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