



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: Stultz & Almond 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, Stultz & Almond 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 1,472 ft. 15" RCP 148 ft. 12" RCP 156 ft. 21" RCP 24 ft.

The total length of the drain will be 1,800 feet.

The retention pond (Lake #1) located in Common Area #31of Section 6 is to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The maintenance of the pond (Lake #1) such as mowing and aquatic vegetation control, and the bio-swales will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond (Lake #1) 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 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 \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$350.00.

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 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 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 Q. Ward, CFM Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)	(Revised 06/08/04)
COUNTY OF HAMILTO) N)	
TO: HAMILTON COUN % Hamilton County S One Hamilton Cou Noblesville, IN. 46	Surveyor nty Square, Suite 188	
In the matter of 6 & 7	Lakeside Park Subdivision Drain Petition	Subdivision, Section

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Lakeside Park Subdivision, 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:

- 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

Reny Roellerg Signed	
Signed	Signed
Ray Roehling	
Printed Name September 1, 2006	Printed Name
Date	Date
Signed	Signed
Printed Name	Printed Name
Date	Date

the care will be a second



STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

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 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
Total				\$75,544.21
Description EROSION CONTROL	Quantity	Unit	Unit Price	Total
Permanent Seeding R/W Seeding	149,225 10,150	SQFT SQFT	\$0.12 \$0.12	\$17,907.00 \$1,218.00

7965 East 106th Street Fishers, Indiana 46038-2505

317.849.5935 Fax: 317.849.5942 www.Stoeppelwerth.com 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 8th day of June, 2007.

David J. Stoeppelwerth Professional Engineer

No. 19358

NO. 19358
STATE OF WOLANA WOLANA

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Stultz & Almond 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 **Stultz & Almond 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.

HAMILTON COUNTY DRAINAGE BOARD

President

Member

Member

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Stultz & Almond Drain, Lakeside Park Section 7 Arm

N.T	\sim	553	-कु	C \$ 2.7
Ν	ſΙ	٠,٠	3	34.

Го	Whom	Ιt	Мау	Concern	and:

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Stultz & Almond 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

Stultz & Almond 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

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 \times $101,677.21) = $33,553.48$ JW Brendle Drain-Lakeside Park Section 7: $(.67 \times $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.

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.

Signature:	Date: November 16, 2007
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





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: Stultz & Almond 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 508-509) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes:
243-242	128	12	RCP	911.86	910.87	0.77	2
242-241	30	12	RCP	910.87	910.32	1.83	
241-240	150	15	RCP	910.32	908.95	0.91	2
240-239	22	21	RCP	908.95	908.79	0.73	-2

6" SSD

Olicets.	
Amblewind Pl.	607.5
x2	

Total:

1215

RCP Pipe Totals:

	12	158
ļ	15	150
	21	22

Total: 330

The length of the drain due to the changes described above is now 1545 feet.

The non-enforcement was approved by the Board at its meeting on November 26, 2007 and recorded under instrument # 2007066459.

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 CONTROL EXISTING EDGE OF WOODS ----- EXISTING SANITARY SEWER

--- EXISTING STORM SEWER PROPOSED GRADE

MATCH EXISTING ----- PROPOSED CONTOUR PROPOSED SANITARY SEWER - PROPOSED STORM SEWER

PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)

LOT NUMBER 874.1 PAD ELEVATION PAD SIZE: 60'X60'

(UNLESS OTHERWISE NOTED) M.F.P.G. = XXX.XX MIN. FLOOD PROTECTION GRADE

DENOTES 4" SUBSURFACE DRAIN TO LOT

DENOTES 6" SUBSURFACE DRAIN ~ROLL CURB

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. 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.

> PER HCSO, THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO EASEMENTS BETWEEN LOTS.

RECORD DRAWING

DENNIS D. OLMSTEAD Registered Land Surveyor No. 900012

11/15/07 DATE

900012 STATE OF . WDIANA

SURVE

STOEPPEL

SCALE: 1"= 50'

STOEPP

No.

19358

STATE OF

. WDIANA.

NOTE TO CONTRACTOR: CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY.

"HOLEY MOLEY"

1-800-382-5544

CALL TOLL FREE 1-800-428-5200 FOR CALLS OUTSIDE OF INDIANA

LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE. (including, 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 SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CONTACT: CARMEL UTILITIES (317) 571-2648 FOR WATER LOCATES

CHECKED BY JDH

s & a job no. 41760S7

VELOPMENT

범

PAR

SCALE: 1"=50' HOR. 8" 1"=5' VERT. FULL DEPTH GRANULAR PROPOSED GRADE~ BACKFILL EXISTING GRADE HYDRAULIC GRADE LINE -8" S.D.R. () 35 P.V.C. PROPOSED WATER INV.=908.58 -0.33% 0.73 1.00% 1 83% 21" R.C.P. 12" R.C.P

APRIL SPRINGS VIEW

__ v ____v

195

194

193

1 234 x

197

199

200

RECORD DRAWING

DATE Registered Land Surveyor No. 900012

900012 STATE OF . NOIANA.

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

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

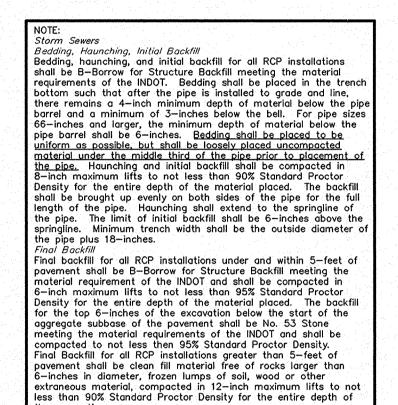
THERE SHALL BE NO MANHOLES OR WATER VALVES WITHIN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATHS

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.

190

191

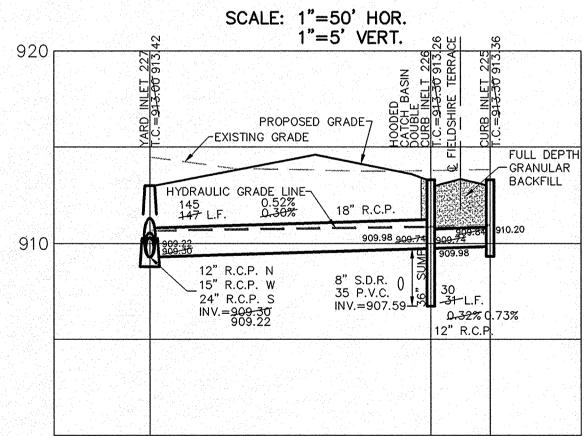
192

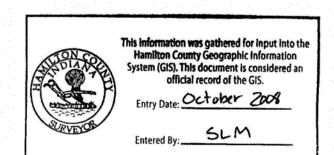


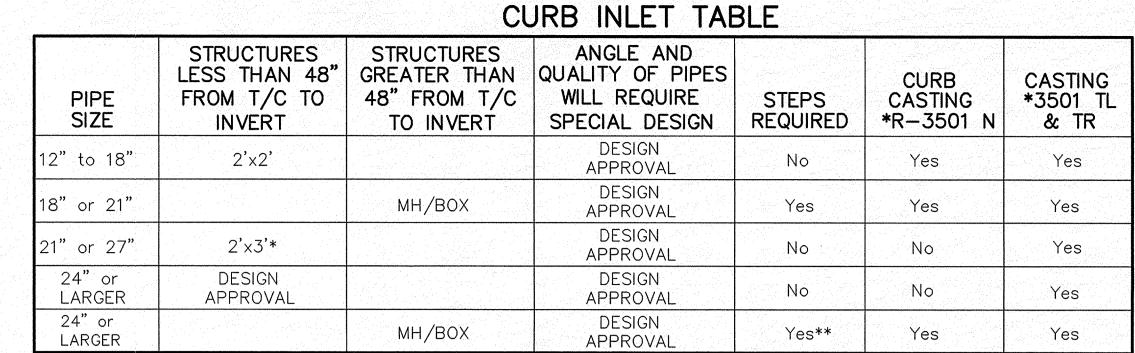
ALL EXISTING OFF-SITE DRAIN TILES THAT ARE NCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

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

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







* 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

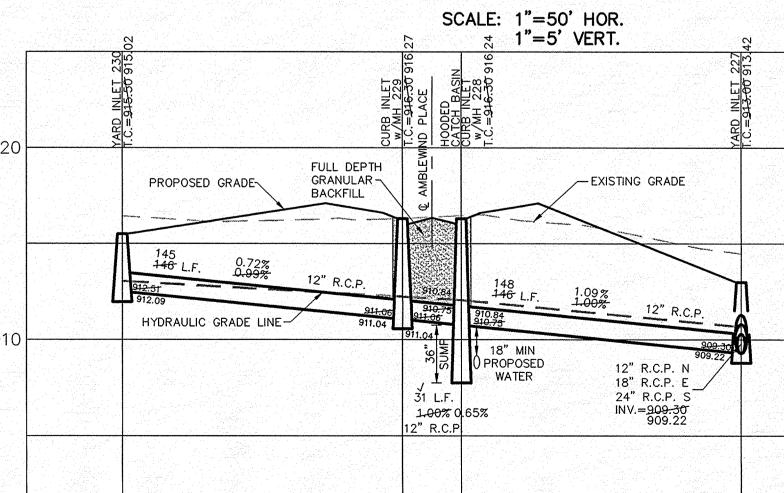
STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED. SPECIAL NOTE:

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.

SCALE: 1"= 50"

SCALE: 1"=50' HOR. 1"=5' VERT. FULL DEPTH ~GRANULAR BACKFILL EXISTING GRADE O PROPOSED WATER HYDRAULIC GRADE LINE 15" R.C.P. W 18" R.C.P. E-INV.=909.30 909.22 0.50% 0.30%



STOEPPEL

STOEPA

ິ No. ັ 19358

STATE OF . WDIANA.

PROFILE . PARK SEVEN PLAN

SEWER TORM

DRAWN BY: JDH

s & a job no. 41760S7

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

205

204

203

202

201

230