

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*

October 17, 2007

TO: Hamilton County Drainage Board

RE: Stultz & Almond Drain, Lincolnshire Section 2 Arm

Attached is a petition filed by Estridge Development Company along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Lincolnshire Section 2 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	5,304 ft.	18" RCP	869 ft.
12" RCP	915 ft.	30" RCP	193 ft.
15" RCP	427 ft.		

The total length of the drain will be 7,708 feet.

The retention pond (Lake #2) located in Common Area "9" 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 #2) 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 #2) 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 \$1,479.60.

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

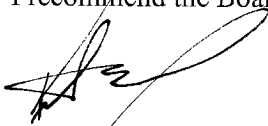
Agent: Developers Surety and Indemnity Co.	Agent: Developers Surety and Indemnity Co.
Date: August 28, 2007	Date: August 28, 2007
Number: 770177S	Number: 770176S
For: Subsurface Drain	For: Storm Sewers
Amount: \$31,620.00	Amount: \$116,808.00

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 Lincolnshire Section 2 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                                   Lincolnshire                                   Subdivision, Section  
                                  Two                                   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                                   Lincolnshire, Section 2                                  , 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.

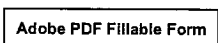
Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (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.



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**

Bryan D. Stumpf  
Signed

BRYAN D. STUMPF  
Printed Name

05/12/06  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

PROJECT: LINCOLNSHIRE SECTION 2  
LOCATION: CARMEL, IN  
ITEM: SUMMARY

ENGINEERS ESTIMATE

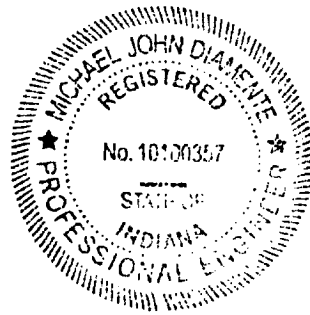
DATE: April 18, 2007

JOB #: 5076.002

DESCRIPTION	TOTAL
STORM SEWER & SSD MONUMENTATION	\$123,690.00 \$3,150.00
<b>TOTAL</b>	<b>\$126,840.00</b>

I certify that this estimate was prepared under my supervision and that it represents an estimate of costs for materials and labor to make the improvements shown on the construction plans and is based on standard methods of estimating such costs effective at the time the estimate was prepared.

By: Michael J. Diamente  
Michael J. Diamente, P.E.  
The Schneider Corporation  
8901 Otis Avenue  
Indianapolis, IN 46216



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## ENGINEERS ESTIMATE

PROJECT: LINCOLNSHIRE SECTION 2

DATE: April 18, 2007

LOCATION: CARMEL, IN

ITEM: STORM SEWER &amp; SSD

JOB #: 5076.002

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
12" RCP PIPE	915	LF	\$18.00	\$16,470.00
15" RCP PIPE	427	LF	\$20.00	\$8,540.00
18" RCP PIPE	869	LF	\$24.00	\$20,856.00
30" RCP PIPE	193	LF	\$43.00	\$8,299.00
CURB INLETS	13	EA	\$1,500.00	\$19,500.00
STORM MANHOLES	1	EA	\$1,500.00	\$1,500.00
BEEHIVE INLETS	9	EA	\$1,500.00	\$13,500.00
12" CONCRETE END SECTION	1	EA	\$675.00	\$675.00
18" CONCRETE END SECTION	2	EA	\$825.00	\$1,650.00
30" CONCRETE END SECTION	1	EA	\$1,350.00	\$1,350.00
GRANULAR BACKFILL	400	CYS	\$10.00	\$4,000.00
CONNECTION TO EXISTING STR	2	EA	\$500.00	\$1,000.00
6"SSD	5,800	LF	\$4.00	\$23,200.00
6"SSD LOT SERVICES	42	EA	\$75.00	\$3,150.00
<b>TOTAL STORM</b>				<b>\$123,690.00</b>

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ENGINEERS ESTIMATE

PROJECT: LINCOLNSHIRE SECTION 2

DATE: April 18, 2007

LOCATION: CARMEL, IN

ITEM: MONUMENTATION

JOB #: 5076.002

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
MONUMENTS	21	EA	\$150.00	\$3,150.00
TOTAL PAVEMENT				\$3,150.00

|::

POWER OF ATTORNEY FOR  
DEVELOPERS SURETY AND INDEMNITY COMPANY  
PO BOX 19725, IRVINE, CA 92623 (949) 263-3300  
www.InscoDico.com



KNOW ALL MEN BY THESE PRESENTS, that except as expressly limited, DEVELOPERS SURETY AND INDEMNITY COMPANY does hereby make, constitute and appoint:

\*\*\*Cynthia L. Jenkins, Sheree Hsleh, Amy Gooden, Michael M. Bill, Edward L. Mournighan, Michael H. Bill, Ginger J. Krahn, Brenda Johnston, jointly or severally\*\*\*

as its true and lawful Attorney(s)-in-Fact, to make, execute, deliver and acknowledge, for and on behalf of said corporation as surety, bonds, undertakings and contracts of suretyship giving and granting unto said Attorney(s)-in-Fact full power and authority to do and to perform every act necessary, requisite or proper to be done in connection therewith as the corporation could do, but reserving to the corporation full power of substitution and revocation, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This Power of Attorney is granted and is signed by facsimile under and by authority of the following resolution adopted by the Board of Directors of DEVELOPERS SURETY AND INDEMNITY COMPANY effective as of November 1, 2000:

RESOLVED, that the Chairman of the Board, the President and any Vice President of the corporation be, and that each of them hereby is, authorized to execute Powers of Attorney, qualifying the Attorney(s)-in-Fact named in the Powers of Attorney to execute, on behalf of the corporation, bonds, undertakings and contracts of suretyship; and that the Secretary or any Assistant Secretary of the corporation be, and each of them hereby is, authorized to attest the execution of any such Power of Attorney;

RESOLVED, FURTHER, that the signatures of such officers may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures shall be valid and binding upon the corporation when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

IN WITNESS WHEREOF, DEVELOPERS SURETY AND INDEMNITY COMPANY has caused these presents to be signed by its respective Executive Vice President and attested by its Secretary this 1st day of December, 2005.

By: [Signature]  
David H. Rhodes, Executive Vice-President

By: [Signature]  
Walter A. Crowell, Secretary



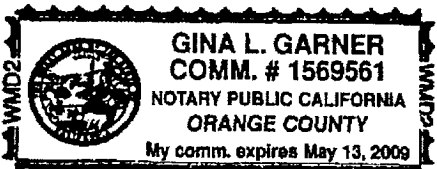
STATE OF CALIFORNIA ]  
COUNTY OF ORANGE ]

On December 1, 2005 before me, Gina L. Garner, (here insert name and title of the officer), personally appeared David H. Rhodes and Walter A. Crowell, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Gina L. Garner

(SEAL)



CERTIFICATE

The undersigned, as Assistant Secretary, of DEVELOPERS SURETY AND INDEMNITY COMPANY, does hereby certify that the foregoing Power of Attorney remains in full force and has not been revoked, and furthermore, that the provisions of the resolution of the respective Boards of Directors of said corporation set forth in the Power of Attorney, is in force as of the date of this Certificate.

This Certificate is executed in the City of Irvine, California, the 28th day of August, 2007.

By: [Signature]  
Albert Hillebrand, Assistant Secretary



FINDINGS AND ORDER

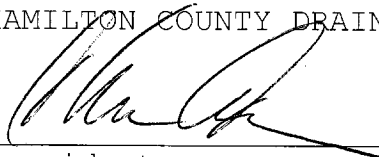
CONCERNING THE MAINTENANCE OF THE

Stultz & Almond Drain, Lincolnshire Section 2 Arm

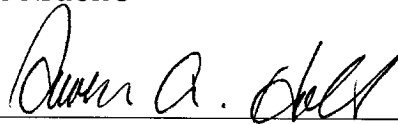
On this **26th day of November 2007**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Stultz & Almond Drain, Lincolnshire Section 2 Arm**.

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.

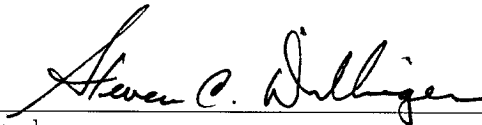
HAMILTON COUNTY DRAINAGE BOARD



\_\_\_\_\_  
President



\_\_\_\_\_  
Member



\_\_\_\_\_  
Member

Attest:



BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

**Stultz & Almond Drain, Lincolnshire Section 2 Arm**

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Stultz & Almond Drain, Lincolnshire Section 2 Arm** on **November 26, 2007** at **9:20 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

***Stultz & Almond Drain, Lincolnshire Section 2 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: Lincolnshire Section 2

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.

Signature:  Date: 1-28-08

Type or Print Name: Michael J. Diamente, PE

Business Address: The Schneider Corporation

8901 Otis Avenue, Indianapolis, IN 46216

Telephone Number: 317.826.7265

SEAL



INDIANA REGISTRATION NUMBER

10100357



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**

**January 8, 2010**

**Re: Stultz & Almond Drain: Lincolnshire Sec. 2**

Attached are as-builts, certificate of completion & compliance, and other information for Lincolnshire Section 2. 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, 2007. The report was approved by the Board at the hearing held November 26, 2007. (See Drainage Board Minutes Book 10, Pages 548-549) The changes are as follows:

<b>Structure:</b>	<b>Length:</b>	<b>Size</b>	<b>Material:</b>	<b>Up Invert:</b>	<b>Dn Invert</b>	<b>Grade:</b>	<b>Changes:</b>
217-216	74	12	RCP	909.81	909.4	0.55	
216-215	139	12	RCP	909.4	907.46	1.4	1
215-214	130	15	RCP	907.46	907.07	0.3	-1
214-213	51	18	RCP	906.99	906.85	0.27	-1
213-212	135	18	RCP	906.85	906.53	0.24	
212-211	30	18	RCP	906.53	906.32	0.7	
211-210	101	18	RCP	906.32	905.58	0.73	1
100-109	154	12	RCP	908.41	907.44	0.63	-1
129-128	41	30	RCP	905.54	905.41	0.12	-6
128-127	30	30	RCP	905.46	905.41	0.17	
127-126	188	30	RCP	905.41	905.08	0.18	72
202-201	60	12	RCP	906.01	905.5	0.85	-2
209-208	148	15	RCP	910.9	909.91	0.67	-1
208-207	30	15	RCP	909.91	909.69	0.73	
207-206	119	15	RCP	909.69	908.44	0.88	2
206-205	284	18	RCP	908.44	907.23	0.43	-1
205-204	213	18	RCP	907.23	906.03	0.56	
204-203	52	18	RCP	906.03	905.62	0.79	-2
221-220	30	12	RCP	912.28	912.09	0.63	
220-206	126	12	RCP	912.09	911.49	0.6	1
173-172	113	12	RCP	913.37	912.92	0.36	
172-171	38	12	RCP	912.92	912.72	0.53	

171-170	30	12	RCP	912.72	912.45	0.9	
170-159	146	12	RCP	912.45	911.76	0.47	-4

**RCP Pipe Totals:**

12	910
15	427
18	866
30	259
<b>Total:</b>	<u>2462</u>

**SSD Totals:**

Streets	5062
<b>Total:</b>	<u>5062</u>

The length of the drain due to the changes described above is now **7,524 feet**. It should be noted that 68 feet of 30" RCP was removed from Lincolnshire Section 1. This was done by the removal of structures 126A to 126.

The non-enforcement was approved by the Board at its meeting on November 26, 2007 and recorded under instrument # 2007068529.

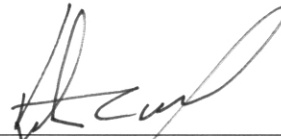
The following sureties were guaranteed by Developers Surety and Indemnity Co and released by the Board on its July 27, 2009 meeting.

**Bond-LC No:** 770176S  
**Insured For:** Storm Sewers  
**Amount:** \$116,808  
**Issue Date:** August 28, 2007

**Bond-LC No:** 770177S  
**Insured For:** Subsurface Drains  
**Amount:** \$31,620  
**Issue Date:** August 28, 2007

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

Sincerely,



\_\_\_\_\_  
Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/slm



**GENERAL NOTES**

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR THE HAMILTON COUNTY SURVEYOR SHALL APPLY FOR ALL STORM SEWERS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL IN COMPLIANCE WITH THE CITY OF CARMEL BACKFILL REQUIREMENTS.
- THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 5' IN WIDTH.
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 7' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- 5" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S 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.
- ALL SUBSURFACE DRAINS SHALL BE 6" DOUBLE-WALL, SMOOTH INTERIOR CORRUGATED, PERFORATED HDPE PIPE, HANCOR HI-C OR EQUIVALENT.
- ADA RAMPS ARE REQUIRED AT ALL LOCATIONS WHERE SIDEWALKS OR ASPHALT PATHS CROSS STREETS. SEE DETAIL 7/C001.

**NOTE:**  
FOR STRUCTURE DATA TABLES  
SEE SHEET C102.

**LEGEND**

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Subsurface Drain
- Water Main
- Existing Contour
- Existing Elevation
- New Pavement Elevations
- All Other Finish Elevations
- Corrected Elevations
- Storm Structure Number
- Sanitary Structure Number
- Flow Arrow
- Meet Existing Elevation
- Denotes Approximate Home Location and Finished Floor Elevations
- Indicates Flood Routing
- Denotes Minimum Flood Protection Grade

**BENCHMARK**

BM - THE HORIZONTAL AND VERTICAL LOCATION DATA SHOWN ON THIS SURVEY ARE BASED UPON A POSITIONAL SOLUTION DERIVED FROM GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS PROCESSED BY NATIONAL GEODETIC SURVEY (NGS) UTILIZING THEIR ONLINE POSITIONING USER SERVICE (OPUS) SOFTWARE. THE COORDINATE VALUES SHOWN ARE IN THE INDIANA STATE PLANE COORDINATE SYSTEM EAST ZONE ON THE 1983 NORTH AMERICAN DATUM (NAD83) UTILIZING THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) ADJUSTMENT AS DETERMINED BY NGS. OPUS POINT #200  
ELEVATION = 910.88 FT. (NAD83)  
TBM 1 - CUT "X", N. BONNET BOLT, FIRE HYDRANT 40 FEET SOUTH OF THE NORTHEAST BOUNDARY CORNER, 50 FEET EAST OF CENTERLINE OF TOWNE ROAD  
ELEVATION = 914.55 FT.  
TBM 2 - CUT "X", S. BONNET BOLT, FIRE HYDRANT 30 FEET NORTH OF THE SOUTHWEST BOUNDARY CORNER  
ELEVATION = 915.39 FT.  
TBM 3 - CUT "X", N. BONNET BOLT, FIRE HYDRANT 40 FEET NORTH OF CENTERLINE OF 141ST STREET, CENTER OF SITE  
ELEVATION = 914.54 FT.  
TBM 4 - CUT "X", S. BONNET BOLT, FIRE HYDRANT 30 FEET NORTH OF CENTERLINE 141ST STREET, 100 FEET WEST OF TOWNE ROAD  
ELEVATION = 911.98 FT.

**LEGEND**

- New Asphalt Pavement Section Within The Right of Way, See Sheet C801 For X-Section
- New Shoulder Within Right of Way, See Sheet C801 For X-Section
- Limits of 1" Surface Milling of Existing Pavement and 1.5" of New Asphalt Surface

**UTILITIES**

Indiana Underground Utility Location Service (1-800-382-5544) was contacted on October 5, 2004 for marking of utilities (confirmation #9410053075).

Water  
Carmel Utilities  
700 3RD Ave. SW Suite 110  
Carmel, Indiana 46032  
317-571-2648

Sanitary Sewer  
Clay Township Regional Waste  
10755 North College Avenue  
Carmel, Indiana 46032  
317-944-9200

Gas  
Vectren Energy Delivery  
P.O. Box 1700  
Hobbesville, Indiana 46061  
317-776-5534

Cable Television  
Insight Collection  
15229 Stony Creek Way  
Hobbesville, Indiana 46060  
(317) 776-0660

Electric  
Carmel  
100 S. Mill Creek Rd.  
Hobbesville, Indiana 46060  
(317) 776-5337

Streets  
Department of Engineering  
City of Carmel  
One Gate Square  
Carmel, Indiana 46032

Storm Sewer, Legal Drains  
Hamilton County Surveyor  
One Hamilton County Square, Suite 188  
Hobbesville, Indiana 46060

Note: The nature, size and location of utilities are per plans and locations provided by the respective utility companies. The above list constitutes some, if not all, of the utility companies which may provide service in the area of, and adjacent to, the subject project, based upon the information available through such plans and locations, and any incidental visual inspection. All utility companies should be notified prior to any excavation for field location of services and verification of size and nature of services.

**PERIMETER ROAD IMPROVEMENTS**

- WEST SIDE OF TOWNE ROAD SHALL BE WIDENED TO 15' MEASURED FROM THE CENTERLINE OF THE EXISTING PAVEMENT TO THE EDGE OF PAVEMENT. SEE SECTION B-B ON C801.
- A 3' WIDE STONE SHOULDER WITH 6" SSD UNDER SHOULDER IS REQUIRED IN ADDITION TO THE PAVEMENT WIDENING.
- RESURFACING OF ENTIRE ROADWAY IS REQUIRED ON TOWNE ROAD WITHIN THE LIMITS OF THE SITE. SURFACE MILL EXISTING PAVEMENT 1" FOR ENTIRE ROADWAY WIDTH FROM PROPERTY LINE TO PROPERTY LINE.
- EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT TO FORM A CLEAN EDGE WHERE PAVEMENT WIDENING OCCURS.

**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY:  
*Michael John Danner*  
**THE SCHNEIDER CORPORATION**  
REPRESENTING ESTRIDGE DEVELOPMENT COMPANY, INC.

The Record Drawing information presented on this sheet was prepared under my direct supervision. I certify that to the best of my knowledge and belief all information represents constructed conditions as of the date of the certification.

**NOTE:**  
Record drawing certification for sub-surface drain marker location only.

DATE: 01/23/08

Professional Engineer Seal: MICHAEL JOHN DANNER, REGISTERED PROFESSIONAL ENGINEER, STATE OF INDIANA, No. 10100357

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**"DON'T DIG BLIND"**

**"IT'S THE LAW"**  
CALL 2 WORKING DAYS BEFORE YOU DIG  
1-800-382-5544  
CALL TOLL FREE

PER INDIANA STATE LAW 15-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

ASSUMED NORTH SCALE: 1"=50'

REVISIONS:  
1. DEP 12/14/05 THESE DESIGN, UTILITY, AND PERIMETER ROAD IMPROVEMENTS, NOTE, AND METEOROLOGICAL DATA ARE THE EXCLUSIVE PROPERTY OF THE SCHNEIDER CORPORATION AND ARE NOT TO BE USED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE SCHNEIDER CORPORATION.  
2. PRC 05/07/07 REVISED GENERAL NOTE #4.

DATE: 05/07/07  
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LINCOLNSHIRE  
SECTION 2  
CARMEL, INDIANA

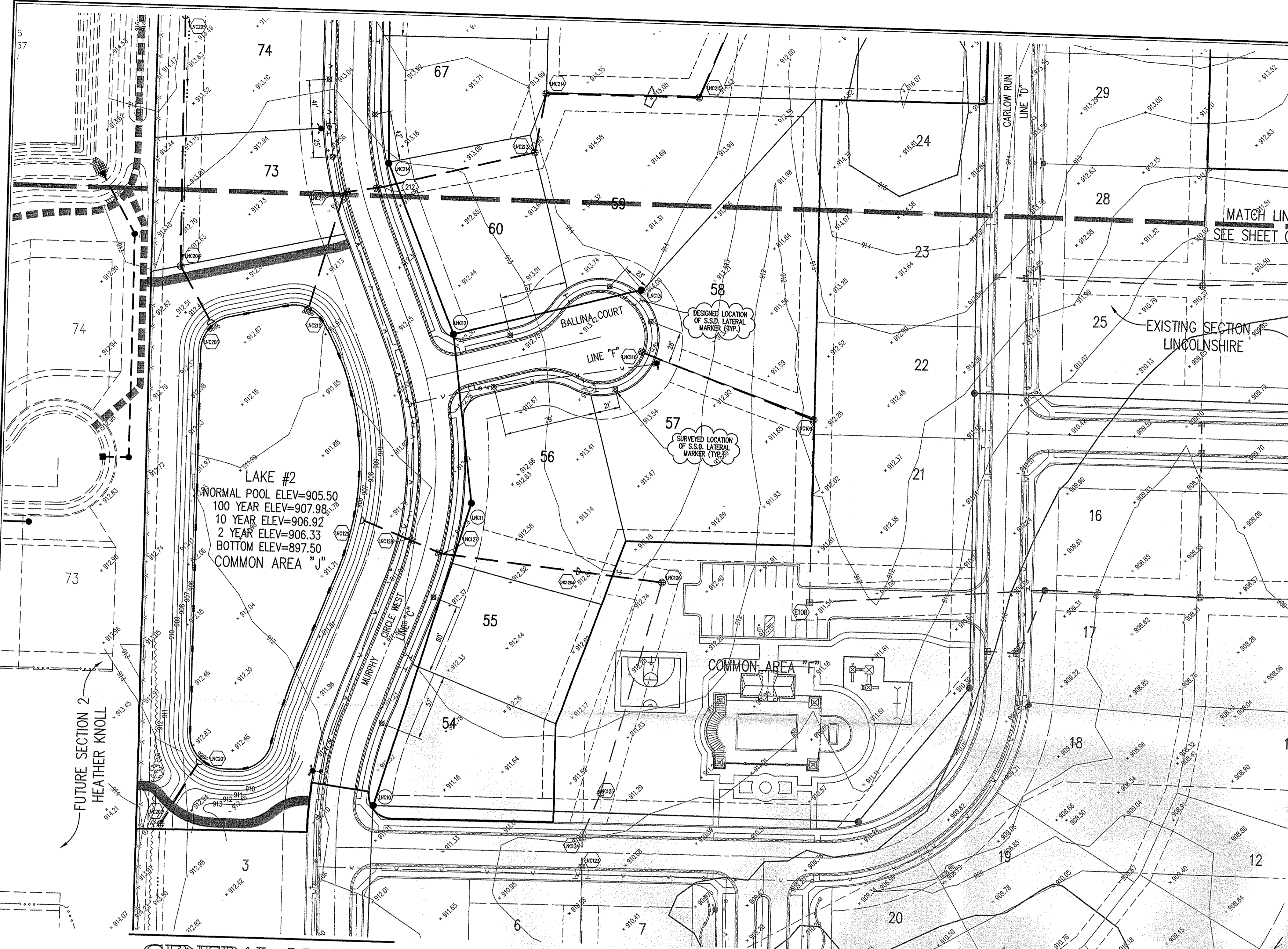
ESTRIDGE DEVELOPMENT COMPANY, INC.  
CARMEL, INDIANA

DATE: 08/01/05 PROJECT NO.: 5076.002  
DRAWN BY: PRC CHECKED BY: JCC  
SHEET TITLE: SUB-SURFACE DRAIN RECORD DRAWING

DRAWING FILES:  
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REF: \5076\001\DWG\MURPHYLAND 8-20-05

SHEET NO.: C101

This copy is from the file: \\C:\Users\mhampe\OneDrive\Projects\5076\DWG\CROSS.DWG; Office: Noblesville, In 46060



**Sanitary Sewer Table**

STR #	STA BASELINE	OFFSET LT/RT	TYPE	TC	INVERT
E10	-----	-----	EXISTING MANHOLE	911.30	907.68 (NW), EX-907.68 (S)
E20	-----	-----	EXISTING MANHOLE	911.70	908.18 (NW), EX-908.18 (S)
E22	-----	-----	EXISTING MANHOLE	911.70	908.18 (NW), EX-908.18 (S)
E25	-----	-----	EXISTING MANHOLE	911.70	908.18 (NW), EX-908.18 (S)
E26	-----	-----	EXISTING MANHOLE	909.77 (W), EX-909.67 (E)	
E11	10+40.13 "C"	31.87' RT	MANHOLE	913.30	903.99 (N), 903.89 (S)
12	11+72.53 "C"	33.80' RT	MANHOLE	914.00	904.85 (E), 904.75 (N), 904.65 (S)
13	11+62.47 "C"	28.00' RT	MANHOLE	913.30	905.55 (N), 905.45 (S)
14	13+10.00 "C"	18.90' RT	MANHOLE	913.00	905.59 (W)
15	13+10.00 "C"	28.00' RT	MANHOLE	913.30	905.55 (N), 905.45 (S)
21	17+33.44 "B"	5.00' LT	MANHOLE	915.80	906.89 (S)
23	15+66.00 "C"	308.40' RT	MANHOLE	914.50	910.44 (S)
27	-----	38.80' LT	MANHOLE	917.80	911.00 (E)

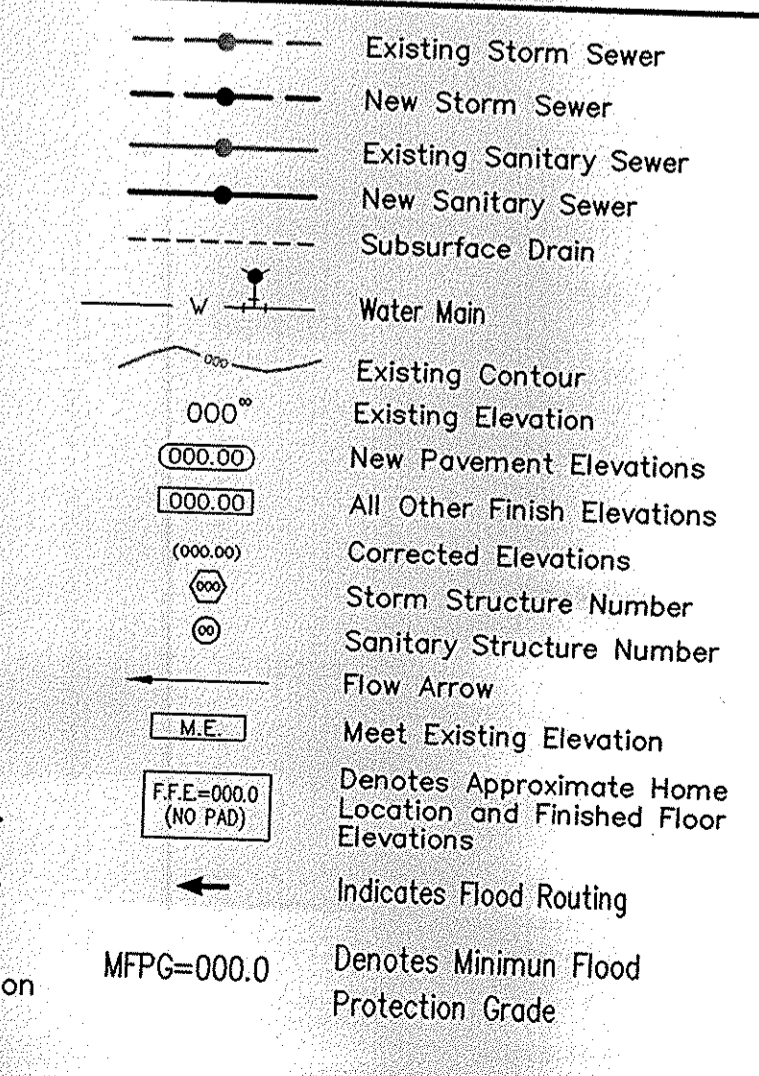
**Storm Sewer Table**

STR #	STA BASELINE	OFFSET LT/RT	TYPE	TC	INVERT
E109	-----	-----	EX. BEEHIVE INLET	911.30	907.68 (NW), EX-907.68 (S)
E126	-----	-----	TEMP. END SECTION	-----	905.18
E159	-----	-----	EX. BEEHIVE INLET	914.70	911.81 (E), EX-904.73 (W&S)
E180	-----	-----	EX. BEEHIVE INLET	914.20	EX-905.98 (N), EX-904.78 (W&E)
E174	-----	-----	EXIST CURB INLET	916.26	EX-907.08 (N), EX-906.88 (S)
E175	-----	-----	EXIST CURB INLET	916.26	EX-907.32 (N&S)
E176	-----	-----	EX. BEEHIVE INLET	912.00	EX-908.40 (W&S)
110	11+30.53 "C"	185.87' RT	CURB INLET	912.13	908.30 (SE)
127	10+05.00 "C"	15.00' RT	CURB INLET	912.40	905.37 (NW&SE)
128	10+05.00 "C"	15.00' LT	CURB INLET	912.40	905.42 (NW&SE)
129	10+07.33 "C"	61.90' LT	END SECTION	-----	905.50
170	17+45.15 "B"	15.00' LT	CURB INLET	918.19	912.56 (E&W)
171	17+45.15 "B"	15.00' RT	CURB INLET	918.19	912.56 (W&E)
172	17+16.65 "B"	40.00' RT	CURB INLET	918.80	912.28 (NW&SE)
173	17+16.65 "B"	152.60' RT	BEHIVE INLET	918.80	912.28 (NW&SE)
201	7+483.71 "C"	122.32' LT	END SECTION	-----	905.50
202	7+45.85 "C"	150.32' LT	BEHIVE INLET	909.50	905.50
203	12+52.53 "C"	156.84' LT	BEHIVE INLET	910.00	905.50
204	12+46.23 "C"	165.88' LT	BEHIVE INLET	910.00	905.88 (N&SE)
205	14+60.09 "C"	141.42' LT	BEHIVE INLET	912.70	907.16 (N&S)
206	17+45.06 "C"	139.76' RT	BEHIVE INLET	914.80	911.54 (E), 908.60 (N), 908.40 (S)
207	28+59.13 "C"	15.00' LT	CURB INLET	915.57	909.65 (N&S)
208	28+59.13 "C"	15.00' RT	CURB INLET	915.57	909.88 (N&S)
209	28+59.13 "C"	15.00' LT	BEHIVE INLET	914.10	910.85 (S)
210	12+36.77 "C"	109' LT	END SECTION	-----	905.50
211	13+15.15 "C"	15.00' LT	CURB INLET	912.60	906.26 (NE&SW)
212	13+15.15 "C"	15.00' RT	CURB INLET	912.60	906.47 (NW&SE)
213	14+01.24 "C"	149.87' RT	BEHIVE INLET	912.00	905.74 (N&S)
214	14+01.24 "C"	165.00' RT	BEHIVE INLET	911.90	905.92 (E), 906.84 (S)
215	14+01.24 "C"	295.82' RT	BEHIVE INLET	910.50	907.40 (NE), 907.25 (W)
216	15+29.07 "C"	346.63' RT	CURB INLET	913.44	909.31 (NW&SE)
217	16+03.41 "C"	346.63' RT	CURB INLET	913.44	909.61 (S)
220	17+45.00 "C"	15.00' LT	CURB INLET	916.13	912.16 (E&W)
221	17+45.00 "C"	15.00' RT	CURB INLET	916.13	912.31 (W)

**GENERAL NOTES**

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO NOTIFY THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR THE HAMILTON COUNTY SURVEYOR SHALL APPLY FOR ALL STORM SEWERS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN CONFORMANCE WITH THE CITY OF CARMEL BACKFILL REQUIREMENTS.
- THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 5" IN WIDTH.
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK JOINTS ARE TO BE EQUAL SPACED BETWEEN EXPANSION JOINTS. CONSTRUCTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 12' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- 5' CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE REQUIREMENTS, CONSTRUCTION REQUIREMENTS, STAKE NOTIFICATION, 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.
- ALL SUBSURFACE DRAINS SHALL BE 6" DOUBLE-WALL, SMOOTH INTERIOR CORRUGATED, PERFORATED HDPE PIPE, HANCOR HI-0 OR EQUIVALENT.
- ADA RAMPS ARE REQUIRED AT ALL LOCATIONS WHERE SIDEWALKS OR ASPHALT PATHS CROSS STREETS. SEE DETAIL C201.

**LEGEND**



**BENCHMARK**

BM - THE HORIZONTAL AND VERTICAL LOCATION DATA SHOWN ON THIS SURVEY ARE BASED UPON A POSITIONAL SOLUTION DERIVED FROM GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS PROCESSED BY NATIONAL GEODETIC SURVEY (NGS) UTILIZING THEIR ONLINE POSITIONING USER SERVICE (OPUS) SOFTWARE. THE COORDINATE VALUES SHOWN ARE IN THE INDIANA STATE PLANE COORDINATE SYSTEM EAST ZONE ON THE 1983 NORTH AMERICAN DATUM (NAD83) UTILIZING THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) ADJUSTMENT AS DETERMINED BY NGS. OPUS POINT #200  
 ELEVATION = 910.88 FT (NAD83)  
 TBM 1 - CUT "X", N. BONNET BOLT, FIRE HYDRANT 40 FEET SOUTH OF THE NORTHEAST BOUNDARY CORNER, 50 FEET EAST OF CENTERLINE OF TOWNE ROAD.  
 ELEVATION = 914.55 FT  
 TBM 2 - CUT "X", S. BONNET BOLT, FIRE HYDRANT 30 FEET NORTH OF THE SOUTHWEST BOUNDARY CORNER.  
 ELEVATION = 915.39 FT  
 TBM 3 - CUT "X", N. BONNET BOLT, FIRE HYDRANT 40 FEET NORTH OF CENTERLINE OF 141ST STREET, CENTER OF SITE.  
 ELEVATION = 914.54 FT  
 TBM 4 - CUT "X", S. BONNET BOLT, FIRE HYDRANT 30 FEET NORTH OF CENTERLINE OF 141ST STREET, 100 FEET WEST OF TOWNE ROAD.  
 ELEVATION = 911.98 FT

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: 12/22/09  
 Entered by: SLM

**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY:  
 THE SCHNEIDER CORPORATION  
 REPRESENTING ESTRIDGE DEVELOPMENT COMPANY, INC.  
 The Record Drawing information presented on this sheet was performed under my direct supervision. I certify that to the best of my knowledge and belief all information represents constructed conditions as of the date of the certification.  
 NOTE: Record drawing certification for sub-surface drain marker location only.  
 DATE: 01/23/10

INDIANA Underground Utility Location Service (1-800-302-5544) was contacted on October 5, 2004 for marking of utilities (confirmation #041003075).

Water: Carmel Utilities, 760 300 Ave. SW Suite 110, Carmel, Indiana 46032, 317-571-2648  
 Sanitary Sewer: Clay Township Regional Waste, 10755 North College Avenue, Carmel, Indiana 46032, 317-844-9200  
 Gas: Vectren Energy Delivery, P.O. Box 1700, Noblesville, Indiana 46061, 317-776-5534  
 Telephone: Ameritech, 220 North American Street, Indianapolis, Indiana 46204, 317-285-4878  
 Cable Television: Insight Coblescon, 15229 Stony Creek Way, Noblesville, Indiana 46060, (317) 776-0660  
 Electric: City of Carmel, 100 S. Mill Creek Rd., Noblesville, Indiana 46060, (317) 776-3337  
 Storm Sewer, Legal Drains: Hamilton County Surveyor, One Hamilton County Square, Suite 188, Noblesville, Indiana 46060

HOLEY MOLEY SAYS "DON'T DIG BLIND"  
 IT'S THE LAW! CALL 2 WORKING DAYS BEFORE YOU DIG 1-800-382-5544  
 CALL TOLL FREE PER INDIANA STATE LAW 15-69-1891. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.  
 ASSUMED NORTH SCALE: 1"=50'

REVISIONS:  
 1. DATE 12/14/08 REVISION: GENERAL NOTES & PERIMETER ROAD IMPROVEMENTS, STREET NAMES, AND FLOOD ROUTING ARE PAID FOR BY THE CLIENT. ALL INFORMATION ON THIS DRAWING IS BASED ON THE DATA PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL INSPECTION OF THE SITE AND HAS FOUND NO DISCREPANCIES. THE CLIENT HAS REVIEWED AND APPROVED THIS DRAWING FOR CONSTRUCTION. ALL INFORMATION ON THIS DRAWING IS BASED ON THE DATA PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL INSPECTION OF THE SITE AND HAS FOUND NO DISCREPANCIES. THE CLIENT HAS REVIEWED AND APPROVED THIS DRAWING FOR CONSTRUCTION.

DATE: 05/07/07  
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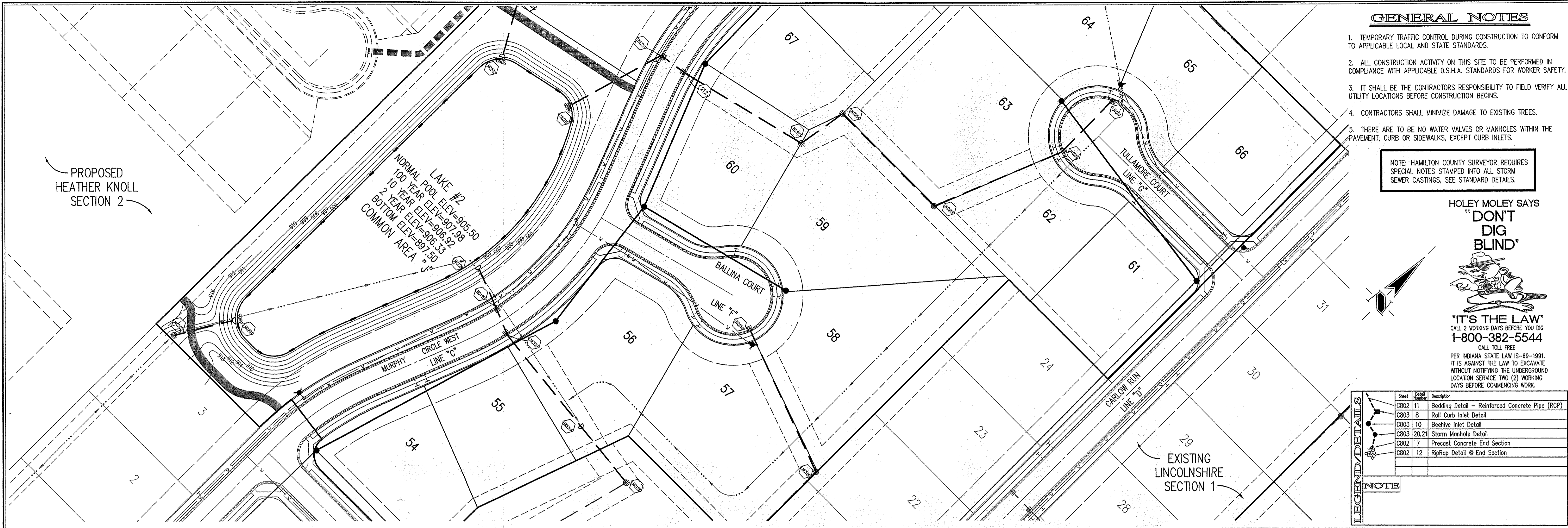
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LINCOLNSHIRE  
 SECTION 2  
 CARMEL, INDIANA  
 ESTRIDGE DEVELOPMENT COMPANY, INC.  
 CARMEL, INDIANA

DATE: 08/01/05 PROJECT NO.: 5076.002  
 DRAWN BY: PRC CHECKED BY: JCC  
 SHEET TITLE: SUB-SURFACE DRAIN RECORD DRAWING  
 DRAWING FILES: R:\5076\002\DWG\C101SSD  
 REF: R:\5076\002\DWG\C101SSD  
 REF: R:\5076\001\DWG\5076T01ES  
 REF: R:\5076\001\DWG\5076T02ES  
 REF: R:\5076\001\DWG\5076T03ES  
 REF: R:\5076\001\DWG\MURPHY PLAND 6-20-05  
 SHEET NO.:





- GENERAL NOTES**
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
  - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
  - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
  - CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.
  - THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURB OR SIDEWALKS, EXCEPT CURB INLETS.

NOTE: HAMILTON COUNTY SURVEYOR REQUIRES SPECIAL NOTES STAMPED INTO ALL STORM SEWER CASTINGS, SEE STANDARD DETAILS.

HOLEY MOLEY SAYS  
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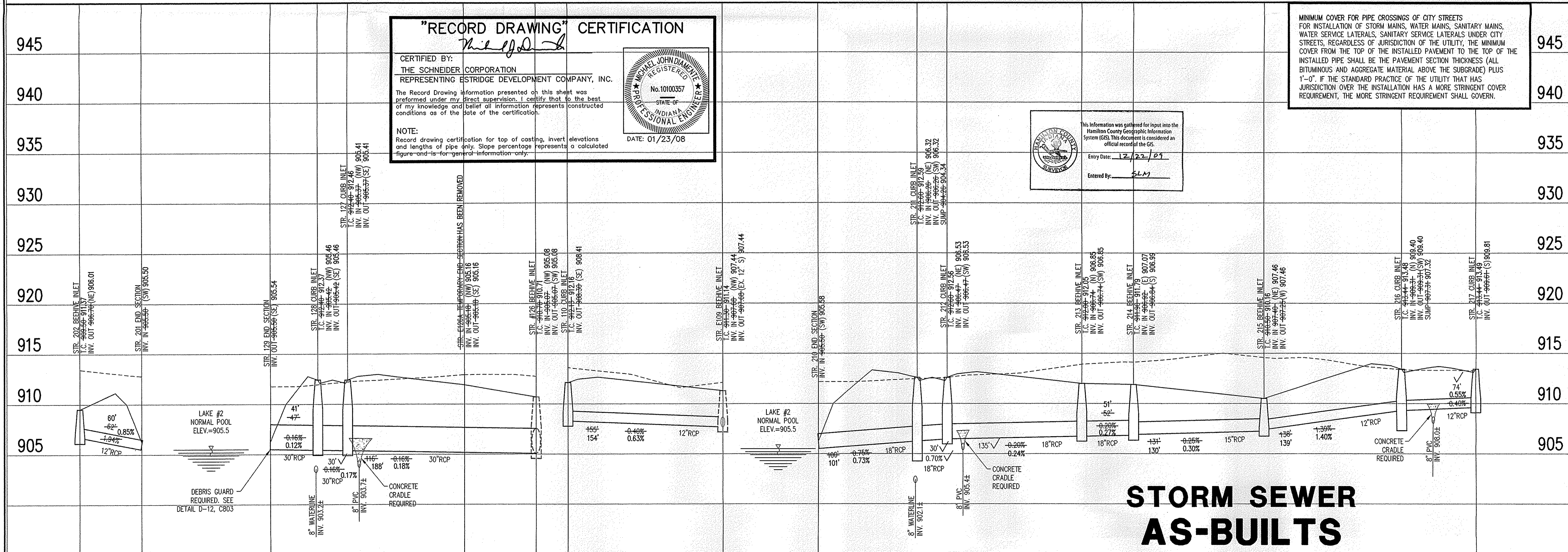
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**LEGEND/DETAILS**

Sheet	Detail	Description
CB02	11	Bedding Detail - Reinforced Concrete Pipe (RCP)
CB03	8	Roll Curb Inlet Detail
CB03	10	Beehive Inlet Detail
CB03	20,21	Storm Manhole Detail
CB02	7	Precast Concrete End Section
CB02	12	RipRap Detail @ End Section

STORM SEWER PLAN

SCALE: 1"=50'



**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY: *Michael J. Schindler*  
THE SCHNEIDER CORPORATION  
REPRESENTING ESTRIDGE DEVELOPMENT COMPANY, INC.

The Record Drawing information presented on this sheet was prepared under my direct supervision. I certify that to the best of my knowledge and belief all information represents constructed conditions as of the date of the certification.

NOTE:  
Record drawing certification for top of casting, invert elevations and lengths of pipe only. Slope percentage represents a calculated figure and is for general information only.

DATE: 01/23/08

MINIMUM COVER FOR PIPE CROSSINGS OF CITY STREETS 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 INSTALLED 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 A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

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: 12/22/07  
Entered By: SLM

STORM SEWER AS-BUILTS

STORM SEWER PROFILE

**LEGEND**

	Existing Grade
	New Grade

SCALE: HORZ.: 1"=50'  
VERT.: 1"=5'

REVISIONS:  
1. DRP 12/17/05 ADJUST STORM SEWER INVERTS FOR MINIMUM COVER, ADD WATERLINE CROSSINGS AND DEBRIS GUARD TO STR. #29 AND ADD HAMILTON CO. SURVEYORS NOTE.  
2. PWS 06/26/06 ADD AREA SURVEY PER HAMILTON COUNTY SURVEYORS OFFICE.  
3. TAN 04/12/07 ADD AREA SURVEY PER HAMILTON COUNTY SURVEYORS OFFICE.  
4. PWC 05/07/07 ADD GENERAL NOTE #5.

DATE: 05/07/07  
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LINCOLNSHIRE  
SECTION 2  
CARMEL, INDIANA  
ESTRIDGE DEVELOPMENT COMPANY, INC.  
CARMEL, INDIANA

DATE: 08/01/05 PROJECT NO.: 5076.002  
DRAWN BY: DRP CHECKED BY: JCC  
SHEET TITLE: STORM SEWER PLAN  
DRAWING FILES:  
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XREF: R:\SK\5076\001\DWGS\0005  
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SHEET NO.: C601

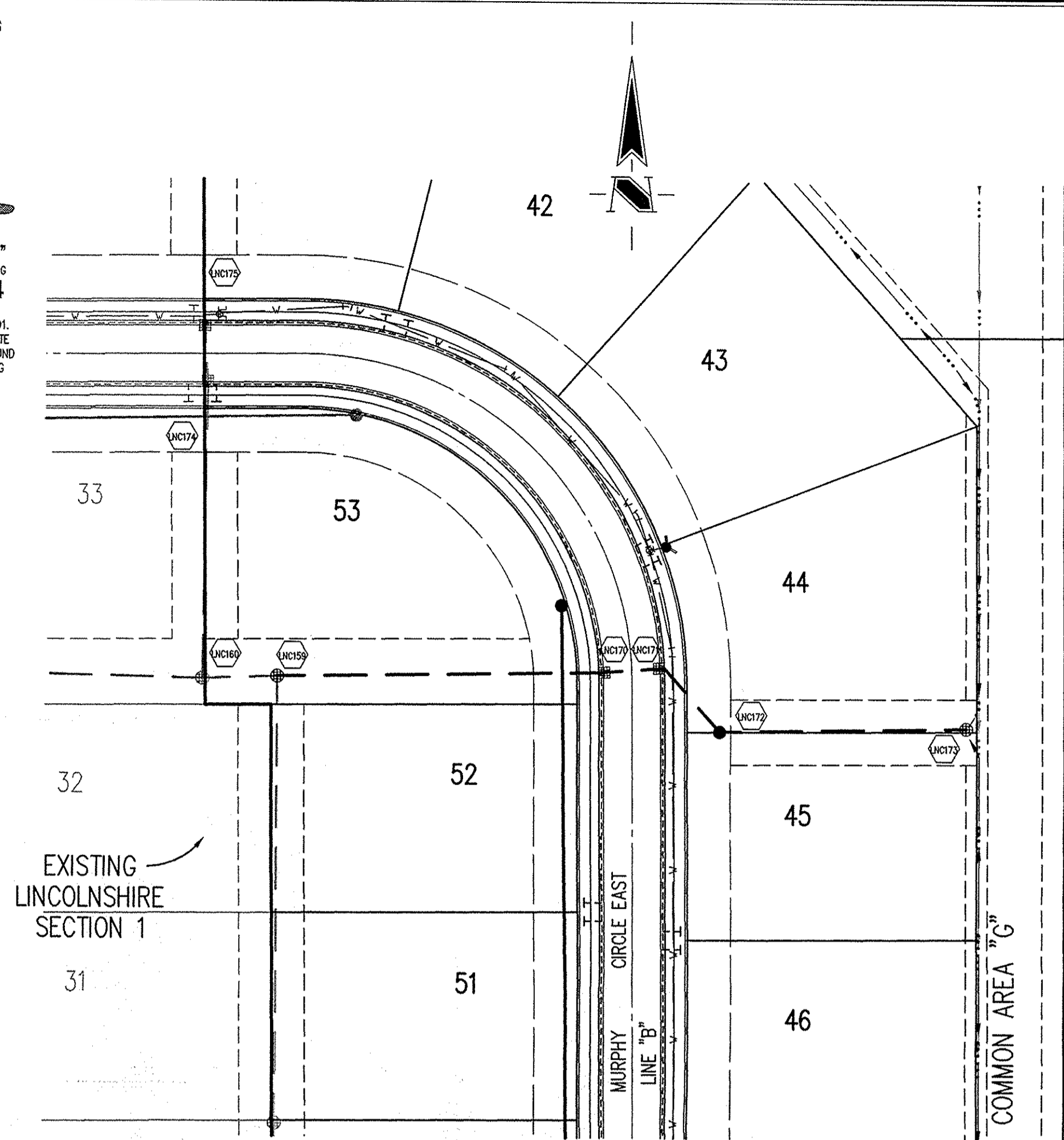
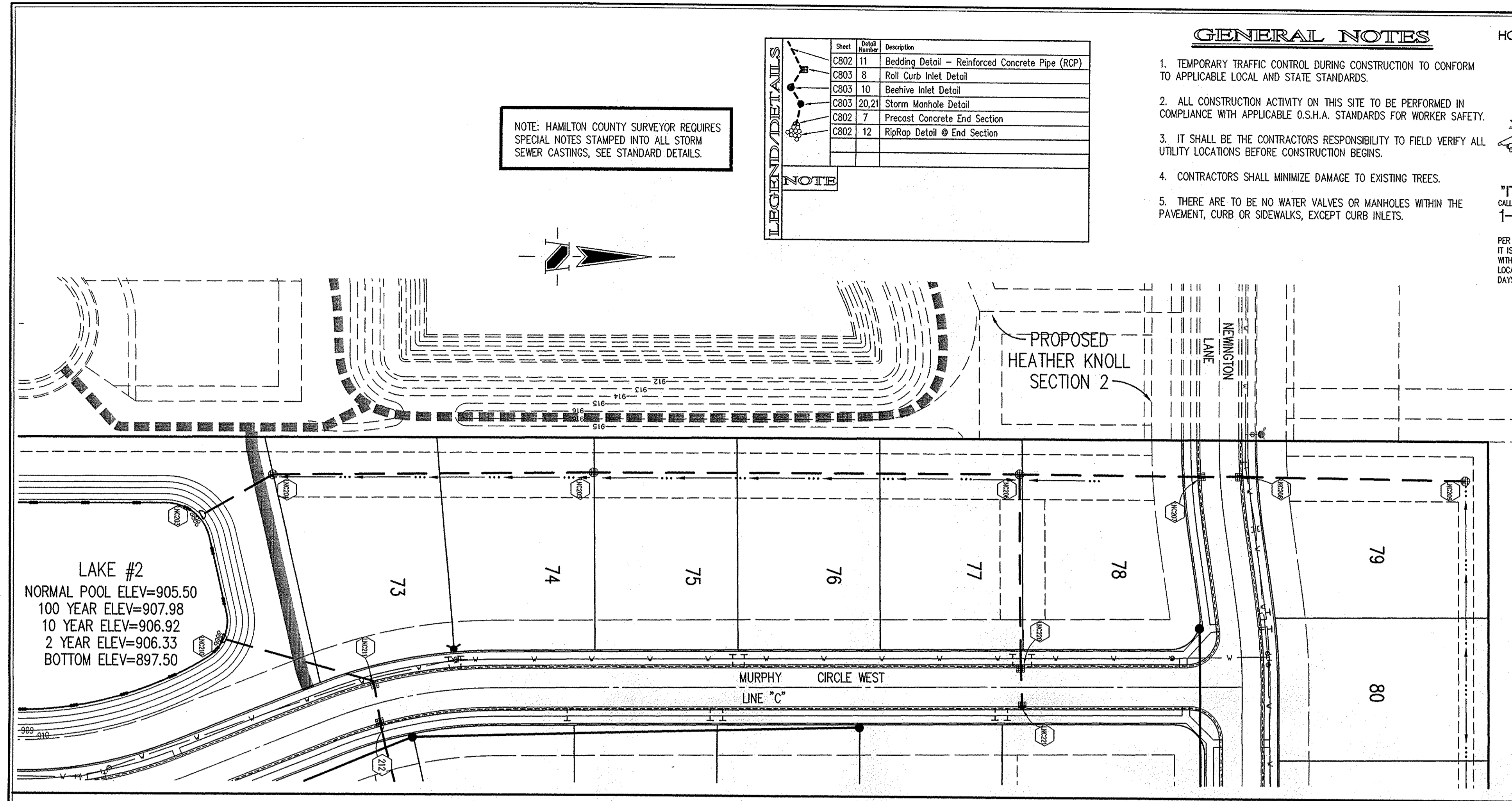
NOTE: HAMILTON COUNTY SURVEYOR REQUIRES SPECIAL NOTES STAMPED INTO ALL STORM SEWER CASTINGS, SEE STANDARD DETAILS.

Sheet Number	Detail Number	Description
C602	11	Bedding Detail - Reinforced Concrete Pipe (RCP)
C603	8	Roll Curb Inlet Detail
C603	10	Beehive Inlet Detail
C603	20,21	Storm Manhole Detail
C602	7	Precast Concrete End Section
C602	12	RipRap Detail @ End Section

**GENERAL NOTES**

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**STORM SEWER PLAN**

SCALE: 1"=50'

**"RECORD DRAWING" CERTIFICATION**

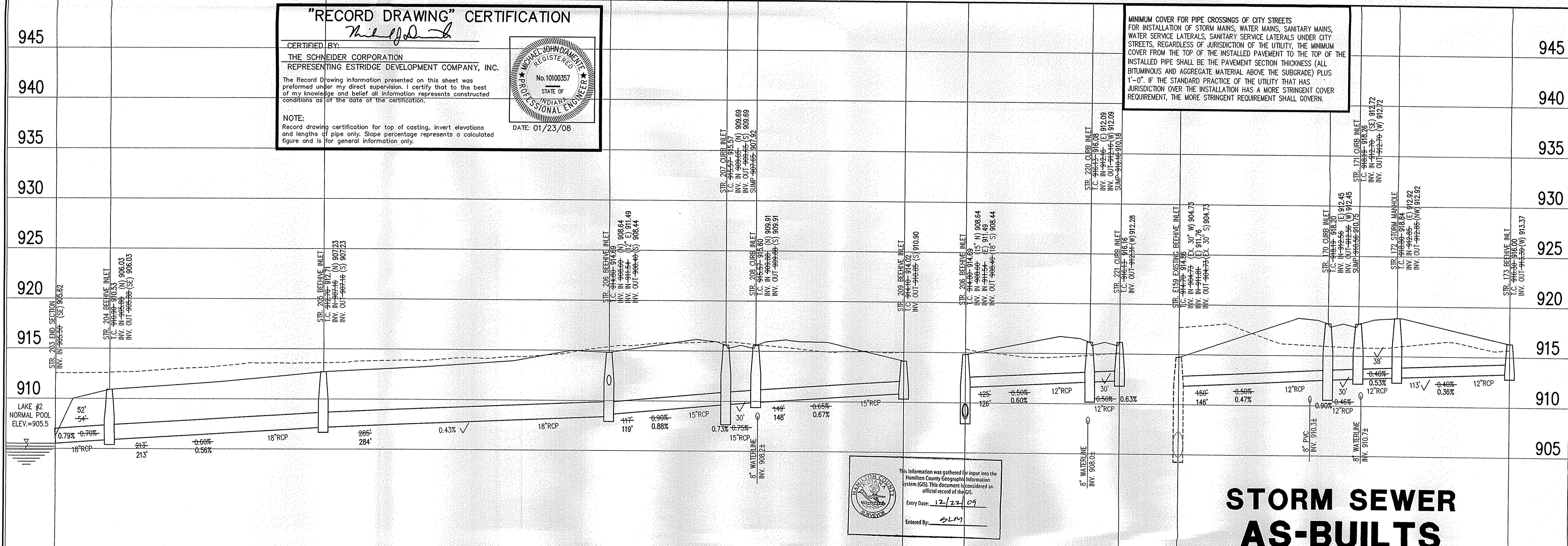
CERTIFIED BY: *Michael J. Johnson*  
 THE SCHNEIDER CORPORATION  
 REPRESENTING ESTRIDGE DEVELOPMENT COMPANY, INC.

The Record Drawing information presented on this sheet was prepared under my direct supervision. I certify that to the best of my knowledge and belief all information represents constructed conditions as of the date of the certification.

NOTE:  
 Record drawing certification for top of casting, invert elevations and lengths of pipe only. Slope percentage represents a calculated figure and is for general information only.

DATE: 01/23/08

MINIMUM COVER FOR PIPE CROSSINGS OF CITY STREETS 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". 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.



**STORM SEWER PROFILE**

**STORM SEWER AS-BUILTS**

LEGEND	
	Existing Grade
	New Grade

SCALE: HORZ.: 1"=50'  
 VERT.: 1"=5'

REVISIONS:  
 1. DRP 12/14/05 ADJUST STORM SEWER INVERTS FOR MANHOLE COVER, ADD WATERLINE CROSSINGS  
 2. DRP 05/15/06 PER THE COMMENTS OF HAMILTON COUNTY SURVEYOR'S OFFICE  
 3. J.M. 04/12/07 ADDED SIMPS PER HAMILTON COUNTY SURVEYOR'S OFFICE  
 4. DRP 05/07/07 ADDED GENERAL NOTE #5

DATE: 05/07/07  
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LINCOLNSHIRE  
 SECTION 2  
 CARMEL, INDIANA  
 ESTRIDGE DEVELOPMENT COMPANY, INC.  
 CARMEL, INDIANA

DATE: 08/01/05	PROJECT NO.: 5076.002
DRAWN BY: DRP	CHECKED BY: JCC
SHEET TITLE: STORM SEWER PLAN	
DRAWING FILES: R:\SK\5076\002\DWG\CS01 XREF: R:\SK\5076\002\DWG\STORM XREF: R:\SK\5076\001\DWG\00085 XREF: R:\SK\5076\002\DWG\00025 XREF: R:\SK\5076\001\DWG\50760015 XREF: R:\SK\5076\001\DWG\50760015	
SHEET NO.: C602	