SURVEYOR'S OFFICE

Hamilton County

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

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

May 15, 2006

TO: Hamilton County Drainage Board

RE: J.W. Brendle Drain, Stanford Park Section 2B Arm

Attached is a petition filed by Platinum Properties, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Stanford Park Section 2B Arm, J.W. Brendle 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	3,157 ft.	12" RCP	616 ft.
15" RCP	260 ft.		

The total length of the drain will be 4,033 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. 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. The portion of the SSD which will be regulated other than those under curbs are as follows: SSD in rear yard swale of lots 190 to 196 and SSD stub to east from Structure 154.

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 $2,970.60

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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: Bond Safeguard Insurance Company
Date: October 19, 2005
Number: 5019354
For: Storm Sewers and SSD
Amount: $168,760.00

Agent: Bond Safeguard Insurance Company
Date: October 19, 2005
Number: 5019353
For: Erosion Control
Amount: $9,600.00

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 Stanford Park Section 2B as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for August 28, 2006.

Kenton C. Ward
Hamilton County Surveyor

KCW/pll

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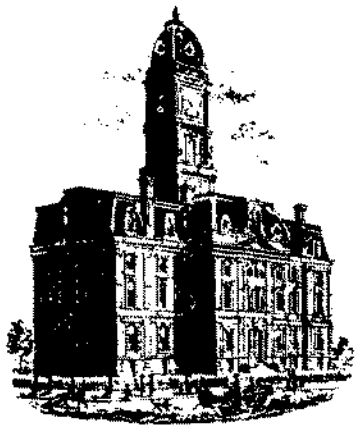

SURVEYOR'S OFFICE

Hamilton County

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Phone (317) 776-8495
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Suite 188
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Noblesville, Indiana 46060-2230

Installed 2005

May 15, 2006

TO: Hamilton County Drainage Board

RE: J.W. Brendle Drain, Stanford Park Section 2B Arm

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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	3,157 ft. - 2508	12" RCP	616 ft. - 577
15" RCP	260 ft. - 300		

The total length of the drain will be 4,033 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. 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. The portion of the SSD which will be regulated other than those under curbs are as follows: SSD in rear yard swale of lots 190 to 196 and SSD stub to east from Structure 154.

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 $2,970.60

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The non-enforcement was approved by the Board at its meeting on August 28, 2006 and recorded under instrument # 200600053292.

The following sureties were guaranteed by Bond Safeguard Insurance Company and released by the Board on its October 9, 2006 meeting.

Bond-LC No: 5019354
Insured For: Storm Sewers, SSD
Amount: $168,760
Issue Date: October 19, 2005

Bond-LC No: 5019353
Insured For: Erosion Control
Amount: $9600
Issue Date: October 19, 2005

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

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(Revised 06/08/04)

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 **Stanford Park** Subdivision, Section **2B** 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 **Stanford Park, Section 2B**, 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.

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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

Signed

Steve Broermann
Printed Name

January 31, 2006
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

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Hamilton County Surveyor's Office	Estimate	2a	2b	Bond Amount (120%)
Storm Sewer and Sub Surface Drains	$ 140,633.00	$ 84,379.80	$ 56,253.20	$ 168,760.00
Erosion Control	$ 8,000.00	$ 4,800.00	$ 3,200.00	$ 9,600.00
Monumentation	$ 7,100.00	$ 4,260.00	$ 2,840.00	$ 8,520.00

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FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

J. W. Brendel Drain, Stanford Park Section 2B Arm

On this **28th *day of August 2006,*** the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the ***J. W. Brendel Drain, Stanford Park Section 2B 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:

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CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Stanford Park, Section Two B

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
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: Jeffory W Darling Date: August 18, 2006

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

EEF/jag
S:\46600S2B\Blue_Book\Applications - Notice\CERTIFICATE OF COMPLETION AND COMPLIANCE008-18-06.doc

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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 **September 26, 2007**

Re: JW Brendle Drain: Stanford Park Section 2B

Attached are as-builts, certificate of completion & compliance, and other information for Stanford Park Section 2B. 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 May 15, 2006. The report was approved by the Board at the hearing held August 28, 2006. (See Drainage Board Minutes Book 9, Pages 412-415)
The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes (ft):
166-167	78	12	RCP	910.82	909.54	1.64	-1
167-168	30	12	RCP	909.54	909	1.8	
168-169	76	12	RCP	909	907.92	1.42	5
168A-167	110	12	RCP	910.19	909.54	0.59	
162-163	124	12	RCP	910.58	909.96	0.5	-1
163-164	38	12	RCP	909.96	909.63	0.87	
164-165	131	15	RCP	909.63	908.06	1.2	1
154-155	121	12	RCP	912.42	909.93	0.5	-4
155-156	38	15	RCP	916.46	909.32	0.39	
156-157	131	15	RCP	909.17	908.56	0.47	1

6" SSD Streets:

Cuppertino Ln	1254
x2	
Total:	2508

6" SSD Lots:

190-196	325
STUB	26
Total:	351

RCP Pipe Totals:

12	577
15	300
Total:	877

The length of the drain due to the changes described above is now **3736 feet**.

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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: Bond Safeguard Insurance Company	Agent: Bond Safeguard Insurance Company
Date: October 19, 2005	Date: October 19, 2005
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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 Stanford Park Section 2B as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for August 28, 2006.

Kenton C. Ward
Hamilton County Surveyor

KCW/pll

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27022

DRAIN: J.W. BRENDEL DRNN
IMPROVEMENT-ARM: STANFORD PARK 2B
HEARING DATE: 8-28-06
DRAIN BOOK & PAGE: BK 9 pgs 412-415
Installed ~~2006~~ 2005

FINAL REPORT CHECKLIST

- RELEASE BONDS — OCT 9, 2006
- NON-ENFORCEMENT — #200600053292
- ENG CERT OF CC — AUG 22, 2006
- ASBUILTS — AUG 22, 2006
- FIGURE PIPE LENGTHS — 9-12-07
- ENTER INTO GIS — ✓ Done
- WRITE FINAL REPORT — 9-26-07
- ENTER INTO POSSE — ✓
- ENTER INTO GASB 34 SPREADSHEET — ✓ Done
- SCAN SURVEYOR'S REPORTS
- EMAIL WORD FILES TO LYNNETTE
- COPIES OF REPORTS TO LYNNETTE

~~SECTION~~

~~SECTION 2 WAS SPLIT INTO 2A AND~~

~~2B~~.

Cupertino Lane
550
323
359
380
379
350
323
66
118
105
105
2508/2 = 1254

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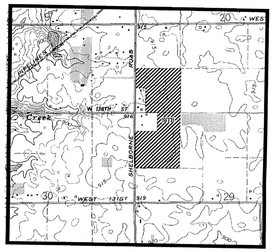
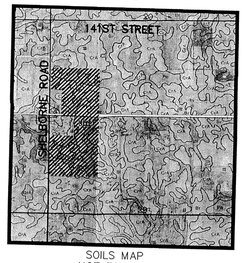
STANFORD PARK
SECTION 2B



VICINITY MAP
NOT TO SCALE

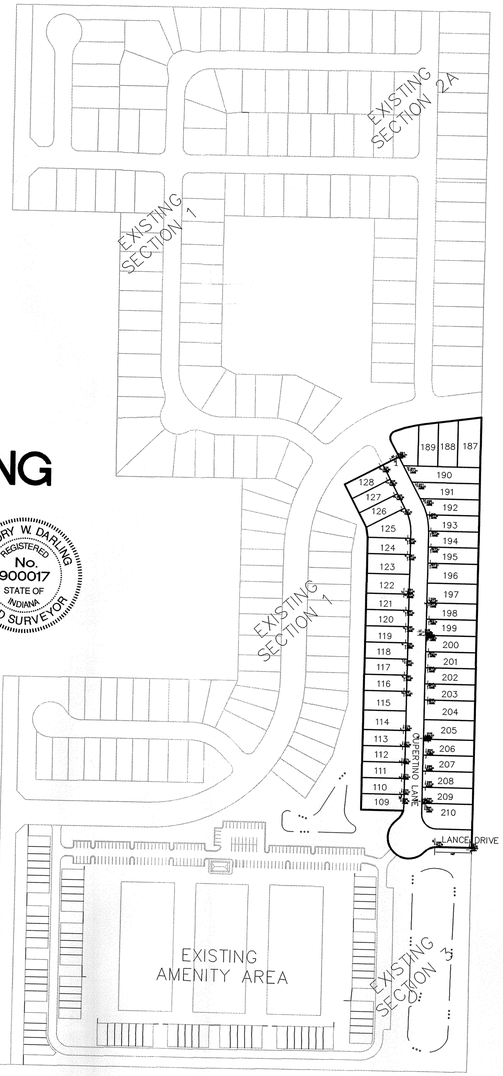
DEVELOPED BY:
PLATINUM PROPERTIES, LLC
9757 WESTPOINT DRIVE, SUITE 600
INDIANAPOLIS, INDIANA 46256
PHONE: (317) 863-2061
Fax: (317)-290-4379
CONTACT: STEVE BROERMANN
EMAIL: sbroermann@platinum-properties.com



SOILS MAP
NOT TO SCALE

INDEX

SHT.	DESCRIPTION
C001	COVER SHEET
C100	TOPOGRAPHICAL SURVEY
C200&C201	SITE DEVELOPMENT PLAN
C300-C302	STORMWATER POLLUTION & PREVENTION PLAN & SPECS
C400	STREET PLAN & PROFILES / INTERSECTION DETAILS / TRAFFIC CONTROL
C500	SANITARY SEWER PLAN & PROFILES
C600	STORM SEWER PLAN & PROFILES
C700	WATER PLANS
C800-C804	CONSTRUCTION DETAILS SANITARY STORM STREET LANDSCAPE PLANS



SCALE: 1"=200'

SOILS MAP

MnA Miami silt loam, 0-2 % slopes- This nearly level, deep, well drained soil is on slight rises on uplands. Permeability is moderate in the subsoil and the substratum. Available water capacity is high. The main soil features that adversely affect engineering uses of this soil are moderate potential for frost action, moderate permeability, and moderate shrink-swell potential. This soil has severe limitations for local roads and streets. The base material needs to be strengthened with suitable material.

CrA Crosby silt loam, 0-3 percent slopes- this soil is light colored, silty in texture and on sloping uplands. It is deep and somewhat poorly drained with slow permeability. It has high available water for plant growth and medium organic matter content. The soil has compact till starting at a depth between 20 -40 inches. The main soil features that affect urban development uses are seasonal high water table, moderate shrink-swell potential, high potential frost action and slow permeability.

Br Brookston silty clay loam- this soil is dark colored, silty in texture and on depressional uplands. It is deep and very poorly drained with moderate permeability. It has high available water for plant growth and high organic matter content. It has compact till starting at a depth of 40 to 60 inches. The main soil features that affect the urban development uses are seasonal high water table, high potential frost action, moderate shrink-swell potential, moderate permeability and ponded surface water.

MmB2 Miami silt loam, 2-6 percent slopes- this soil is light colored, silty in texture and on sloping uplands. It is deep and well drained with moderate permeability. It has moderate available water for plant growth and a medium organic matter content. It has compact till starting at a depth between 20- 40 inches. The main soil features that adversely affect urban development uses are moderate potential frost action, moderate shrink-swell potential, moderately slow permeability, low strength and erosion during construction.

MmC2 Miami clay loam, 6-12 % sloped severely eroded- this moderately sloping, deep well draining soil is on knobs and breaks along streams and drainage ways on uplands. Permeability is moderate in the subsoil and moderately slow in the substratum. This soil is suitable for urban development. The main soil features that adversely affect the engineering uses of this soil are moderate potential frost action, moderate shrink-swell potential, and moderately slow permeability. The hazard of erosion is high during construction.

FxC3 Fox loam, 8 to 18 % slopes, severely eroded- This moderate sloping, well-drained soil is on side slopes adjacent to drainageways on terraces and in domelike areas on uplands. It is moderately deep over sand and gravelly sand. Permeability is moderate in the subsoil and rapid in the underlying material. Available water capacity is low. This soil has moderate limitations for urban development (Slope). Features that adversely affect engineering uses of this soil are moderate frost action, moderate shrink-swell potential, moderate permeability in the subsoil and very rapid permeability in the under lying material. Topsoil should be stockpiled for use in exposed areas.

We Westland silty clay loam - This nearly level, deep, very poorly drained soil is in depressions, swales, and narrow drainageways on outwash plains. Runoff from higher adjacent soils is ponded on this soil. Permeability is slow. The water table is commonly at the surface or is at a depth of less than one foot in winter and early spring. Available water capacity is high. Surface runoff is ponded or is very slow. The main soil features that adversely affect engineering uses of this soil are a seasonal high water table, high potential frost action, moderate shrink-swell potential, and slow permeability. The base material for roads needs to be replaces or strengthened with suitable material.

OcA Ockley silt loam, 0-2 % slopes- This nearly level, deep well drained soil is mainly on brood terraces. Permeability and available water capacity is moderate. This soil is suitable for urban development. Features that adversely affect engineering uses of this soil are moderate frost action, moderate shrink-swell potential, moderate permeability in the subsoil and very rapid permeability in the under lying material.

OcB2 Ockley silt loam, 2-6 % slope, eroded- This gently sloping, deep well drained soil is mainly on brood terraces. Permeability and available water capacity is moderate. This soil is suitable for urban development. Features that adversely affect engineering uses of this soil are moderate frost action, moderate shrink-swell potential, moderate permeability in the subsoil and very rapid permeability in the under lying material. This soil has severe limitations for local roads because of low strength. The base material of roads needs to be strengthened with suitable material.

SECTION 2B
DESIGN DATA

44 LOTS
8.282 AC. = 5.31 LOTS PER ACRE

CUPERTINO LANE	1,069.05 L.F.
LANCE DRIVE	167.07 L.F.
TOTAL	1,236.12 L.F.

SPEED LIMIT: 25 M.P.H.

RECORD DRAWING

JEFFORY W. DARLING 8/18/06
JEFFORY W. DARLING DATE
Registered Land Surveyor
No. 900017

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

REVISIONS

SHT.	DESCRIPTION
B001,C200 C500,C600 C700	REVISED PER TAC COMMENTS
ALL	REVISED PER DEVELOPER/TAC COMMENTS 3/31/06 BAH
ALL	REVISED ROUND-A-BOUT 4/6/06 BAH

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: 8-15-2007
Entered By: Suzanne L. Mills

PLANS PREPARED BY:

STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9940 ALLISONVILLE ROAD FISHERS, INDIANA 46038
PROJECT MANAGER: EDWARD E. FLEMING
EMAIL: efleming@stoeppelwerth.com
PHONE: (317)-849-5935
FAX: (317)-849-5942

PLANS CERTIFIED BY:

01/31/06
DAVID J. STOEPPELWERTH DATE
PROFESSIONAL ENGINEER
NO. 19358

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

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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.

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT 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

BENCHMARKS:

LEE 2 – THE STATION IS LOCATED APPROX. 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE AND WEST 131ST STREET; IN THE SE 1/4 OF THE INTERSECTION; SET IN TOP OF A CONCRETE POST, LEVEL WITH THE ROADWAY; A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLET, STAMPED "LEE 2 AZI 1989". N.A.V.D.

ELEV.= 917.518

SCALE: 1"= 50'

LEGEND

- EXISTING EDGE OF WOODS
- 845 EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- 848.0 PROPOSED GRADE
- M.E. MATCH EXISTING
- 870 PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- DENOTES 4" SUBSURFACE DRAIN TO LOT
- DENOTES 6" SUBSURFACE DRAIN
- ROLL CURB

100 / 874.1 / MFPG= LOT NUMBER / PAD ELEVATION / PAD SIZE: 35'X60' (UNLESS OTHERWISE NOTED) / MIN. FLOOD PROTECTION GRADE

NOTE: MIN. FLOOD PROTECTION GRADES OF ALL STRUCTURES FRONTING POND #3 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.)

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

RECORD DRAWING

JEFFORY W. DARLING 8/18/06
JEFFORY W. DARLING — DATE
Registered Land Surveyor
No. 900017

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

STORM CHART				
STR. NO.	TYPE	T.C. / RIM	INVERT	DIRECTION
154	YARD INLET	912.50	910.00	W
155	CURB INLET w/MH	916.50	909.38	E&NW
156	CURB INLET w/MH	916.50	909.19	SE&W
162	YARD INLET	913.00	910.50	W
163	CURB INLET w/MH	916.08	909.88	E&NW
164	CURB INLET w/MH	916.22	909.50	SE&W
166	YARD INLET	914.00	911.00	SW
167	CURB INLET w/MH	913.91	909.50	NE&S&NW
168	CURB INLET	913.91	908.96	N&SW
168A	CURB INLET	914.36	910.30	SE
169	CONCRETE END SECTION		907.60	NE

EARTHWORK:

1. EXCAVATION
   A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
   B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
   A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
   A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
   B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
   A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechmical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
5. UTILITIES
   A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
   B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
6. SITE GRADING
   A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
   B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
   C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

FORM\EARTHWRK

"HOLEY MOLEY" SAYS:

1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

CAUTION

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 EXISTING UNDERGROUND UTILITIES 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.

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Entry Date: 8-15-07
Entered By: Suzanne L. Mills

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NO.	DATE	MARK	REVISIONS	BY
1	8/18/06		AS BUILTS	BAH
2	4/28/06		REV. PER CITY ENGINEER COMMENTS	EEF
3	3/29/06		REVISED PER DETENTION POND COMMENTS	BAH
4	2/22/06		ADDED ESMT AROUND EX. STORM PER TAC COMMENTS	DJH

DWN. BY: BAH
CK. BY: EEF
SCALE: 1"=50'
DATE: 1/31/06
CERTIFIED: 1/31/06

CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
FISHERS INDIANA

SITE DEVELOPMENT PLAN
STANFORD PARK SECTION 2B
CARMEL INDIANA

SHEET NO. C200

JOB NO. 46600S2B

RECORD DRAWING

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.

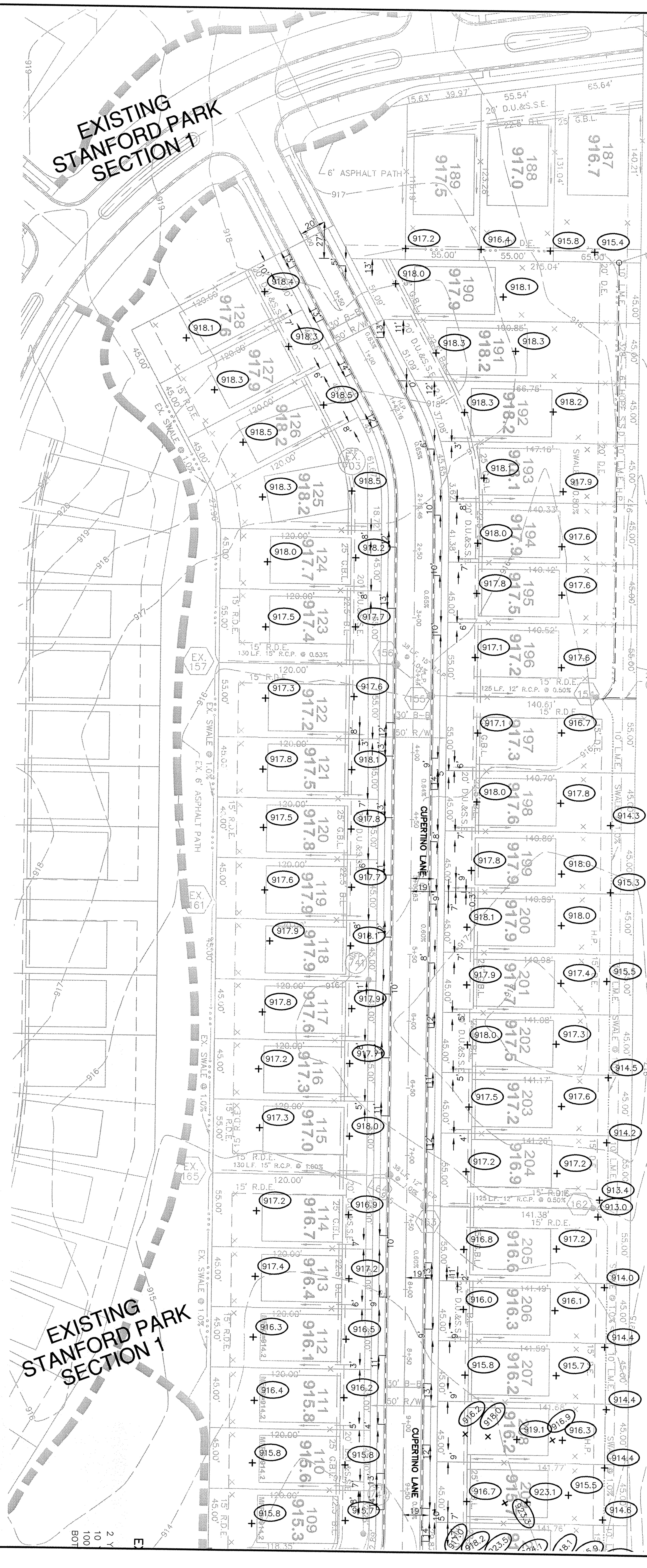
ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

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

BENCHMARKS:

LEE 2 – THE STATION IS LOCATED APPROX. 2.5 MILES NORTHEAST OF ZIONSVILLE; AT THE INTERSECTION OF SHELBOURNE AND WEST 131ST STREET; IN THE SE 1/4 OF THE INTERSECTION; SET IN TOP OF A CONCRETE POST, LEVEL WITH THE ROADWAY; A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLET, STAMPED "LEE 2 AZI 1989". N.A.V.D.

ELEV.= 917.518



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JEFFORY W. DARLING 8/18/06
Registered Land Surveyor DATE
No. 900017

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

SCALE: 1"= 50'

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LEGEND

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- 848.0 PROPOSED GRADE
- M.E. MATCH EXISTING
- 870 PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)

100 / 874.1 / MFPG= — LOT NUMBER; PAD ELEVATION; PAD SIZE: 35'X60' (UNLESS OTHERWISE NOTED); MIN. FLOOD PROTECTION GRADE

DENOTES 4" SUBSURFACE DRAIN TO LOT
DENOTES 6" SUBSURFACE DRAIN
ROLL CURB

NOTE: MIN. FLOOD PROTECTION GRADES OF ALL STRUCTURES FRONTING POND #3 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.)

EARTHWORK:

1. EXCAVATION
   A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
   B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
   A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
   A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
   B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
   A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechmical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
5. UTILITIES
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FORM\EARTHWRK

MARK	DATE	REVISIONS	BY
	8/18/06	AS BUILTS	BAH
	4/6/06	REVISED ROUND-A-BOUT	BAH
	3/31/06	REVISED PER DEVELOPER/TAC COMMENTS	BAH
	2/27/06	REV. LC.124, ESMT/SSD(190/196) PER TAC COMMENTS	JDH

DWN. BY BAH
CK. BY EEF
SCALE 1"=50'
DATE 1/31/06

CERTIFIED: 1/31/06
David J. Stoeppelwerth

STOEPPELWERTH & Associates, Inc.
CONSULTING ENGINEERS – LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX:(317) 849-5942
FISHERS INDIANA

SITE DEVELOPMENT PLAN
STANFORD PARK SECTION 2B
CARMEL INDIANA

SHEET NO. C201

JOB NO. 46600S2B

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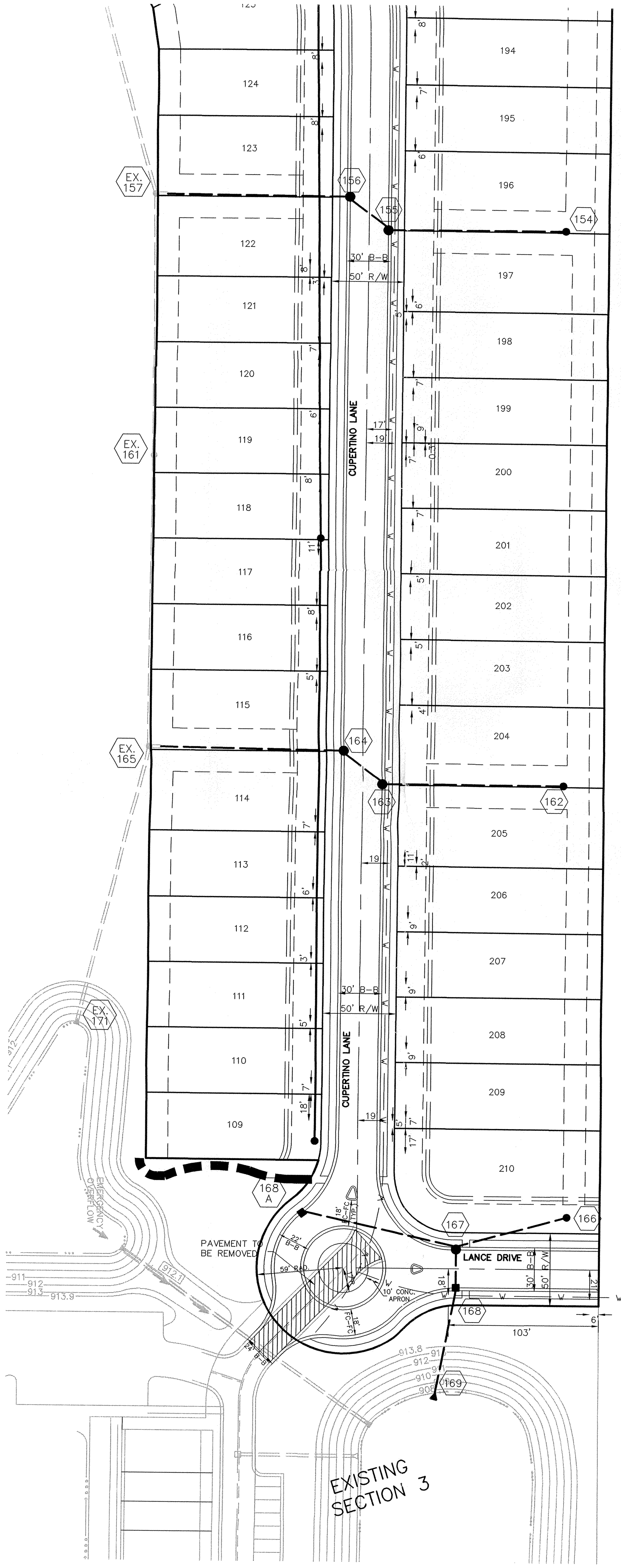
RECORD DRAWING

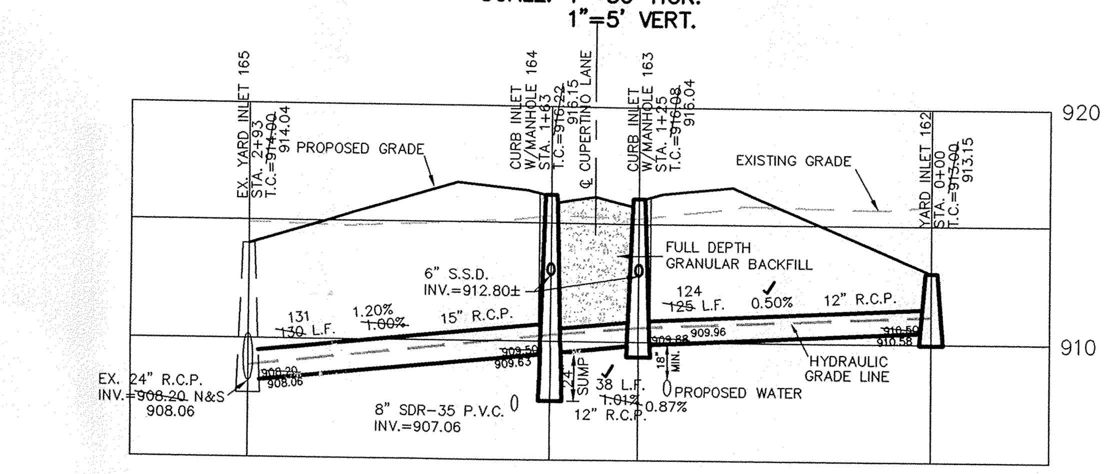
Jeffory W. Darling (signature) 8/18/06
JEFFORY W. DARLING — DATE
Registered Land Surveyor
No. 900017

JEFFORY W. DARLING REGISTERED No. 900017 STATE OF INDIANA LAND SURVEYOR

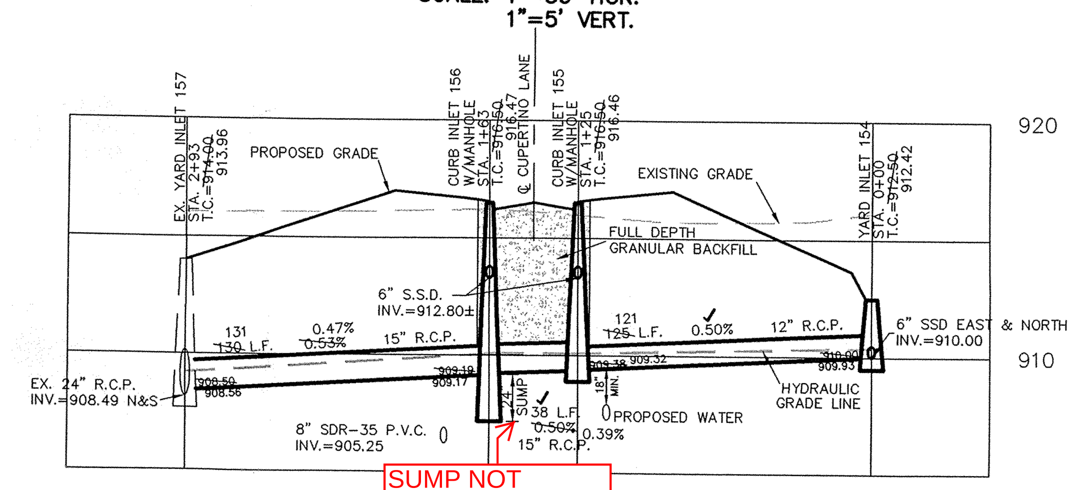


SCALE: 1"= 50'

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

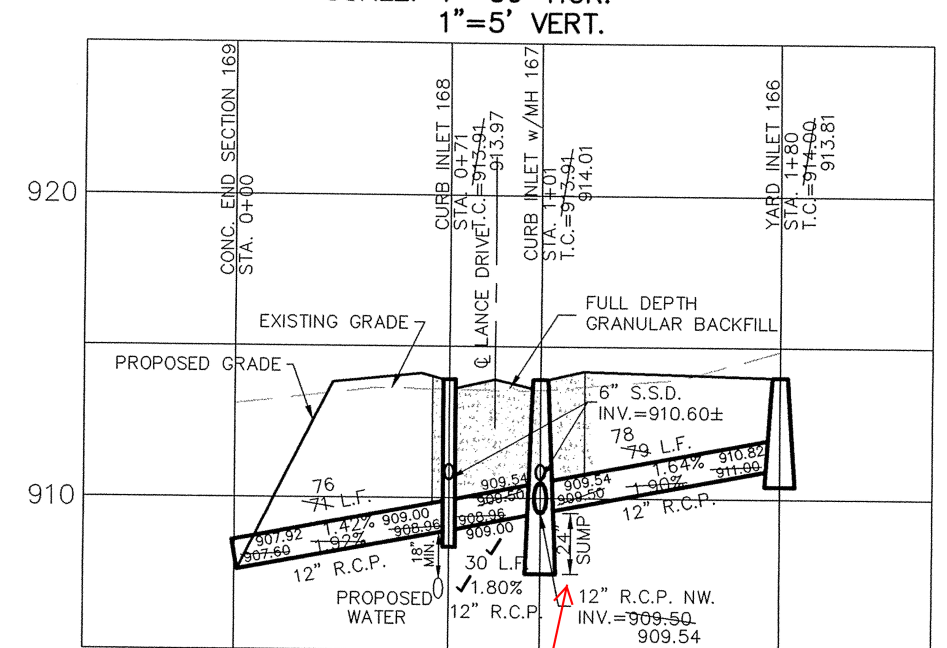


SCALE: 1"=50' HOR.
1"=5' VERT.



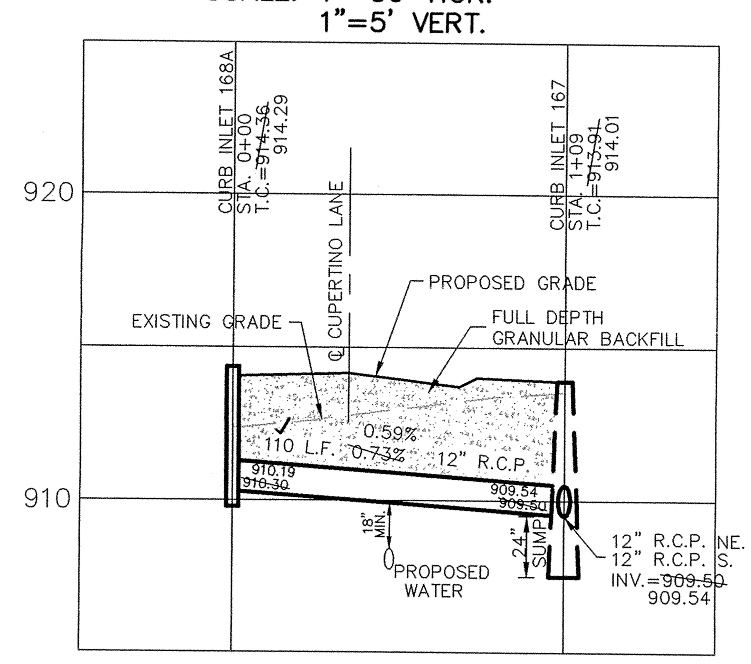
SUMP NOT INSTALLED PER INSPECTOR 2-11-2014

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



NO SUMP PER INSPECTOR 3-6-2012

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



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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"x24"		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"x36"		DESIGN APPROVAL	No	Yes	Yes
24" OR LARGER	DESIGN APPROVAL		DESIGN APPROVAL	No	No	Yes
24" or LARGER		MH/BOX	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

SPECIAL NOTE:
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.

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

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

NOTE:
Storm Sewers
Bedding, Haunching, Initial Backfill
Bedding, haunching, and initial backfill for all RCP installations shall be B-Borrow for Structure Backfill meeting the material requirements of the INDOT. Bedding shall be placed in the trench bottom such that after the pipe is installed to grade and line, there remains a 4-inch minimum depth of material below the pipe barrel and a minimum of 3-inches below the bell. For pipe sizes 66-inches and larger, the minimum depth of material below the pipe barrel shall be 6-inches. Bedding shall be placed to be uniform as possible, but shall be loosely placed uncompacted material under the middle third of the pipe prior to placement of the pipe. Haunching and initial backfill shall be compacted in 8-inch maximum lifts to not less than 90% Standard Proctor Density for the entire depth of the material placed. The backfill shall be brought up evenly on both sides of the pipe for the full length of the pipe. Haunching shall extend to the springline of the pipe. The limit of initial backfill shall be 6-inches above the springline. Minimum trench width shall be the outside diameter of the pipe plus 18-inches.
Final Backfill
Final backfill for all RCP installations under and within 5-feet of pavement shall be B-Borrow for Structure Backfill meeting the material requirement of the INDOT and shall be compacted in 6-inch maximum lifts to not less than 95% Standard Proctor Density for the entire depth of the material placed. The backfill for the top 6-inches of the excavation below the start of the aggregate 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 pavement 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 the excavation.

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

NOTE:
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.

DATE	MARK	REVISIONS	BY
8/18/06		AS BUILTS	BAH
4/6/06		REVISED PER ROUND-A-BOUT CHANGES	BAH
3/31/06		REVISED PER DEVELOPER/TAC COMMENTS	BAH
2/27/06		ADD 24" SUMP IN PROFILES PER TAC COMMENTS	JDH

DWN. BY BAH
CK. BY EEF
SCALE 1"=50'
DATE 1/31/06

CERTIFIED: 1/31/06
David J. Stoeppelwerth (signature)

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

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FISHERS INDIANA

STORM PLAN & PROFILES
STANFORD PARK SECTION 2B
CARMEL INDIANA

SHEET NO.
C600

JOB NO. 46600S2B

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