

*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*

February 25, 2014

To: Hamilton County Drainage Board

Re: Bentley Oaks Drain, Highpointe on Meridian Reconstruction

Attached is a petition from S-K Carmel, LLC, along with plans for the proposed reconstruction and relocation of the Bentley Oaks Drain. The proposal is to reconstruct and relocate this drain by piping part of the open drain to allow for development.

The reconstructed drain shall consist of those lengths of pipes between the following structures as shown on sheets C302C and C302D of the plans by Weihe Engineers, dated October 24, 2013, and having job number W11-0381:

The new drain shall begin at Str. 204A, which is a new structure placed on the existing drain after removing the end section, which is Str. 101 of the original drain, and then run to Str. 204, 203, 202, 201, and ending at Str. 200, where it discharges back into the existing open drain. Also to be included is the pipe from Str. 215 to Str. 202.

The drain in total will consist of the following lengths:

12" RCP – 56 ft.  
15" RCP – 12 ft.  
24" RCP – 734 ft.

The total length of new drain for this arm shall be 802 feet. The 650 feet of the original open drain from existing Str. 101 to the location of Str. 200, shall be vacated. This proposal will add 152 feet to the drains total length.

The cost of the reconstruction is to be paid by S-K Carmel, LLC.

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

Agent: Westchester Fire Insurance Company  
Date: October 25, 2013  
Number: K08961268  
Amount: \$100,738.00

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 that a maintenance assessment for commercial, institutional, and multi-family residential tracts be set at \$10.00 per acre, with a \$75.00 minimum, for the Bentley Oaks Drain with this proposed development.

The following parcels should also be added to the maintenance rolls for the Bentley Oaks Drain:

<u>Parcel</u>	<u>Owner</u>	<u>Acreage</u>
17-09-26-00-15-001.000	S-K Carmel LLC	8.09
17-09-26-00-00-003.002	City of Carmel	0.80
17-09-26-00-15-002.000	Frank K Regan	12.81
17-09-26-00-15-003.000	Frank K Regan	5.42


Parcel 17-09-26-00-15-003.000 and the assessment amount of parcel 17-09-26-00-15-002.000 should be removed from the Williams Creek Drain maintenance assessment roll, as all the onsite drainage is being collected and released at a detained rate to the open drain flowing to the east to Cool Creek. With this assessment to the Bentley Oaks Drain, the annual assessment for these additional parcels will be \$359.00.

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 requests. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Highpointe on Meridian as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for April 28, 2014.

Sincerely,



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/pll

HAMILTON COUNTY DRAINAGE BOARD  
NOBLESVILLE, INDIANA

**FILED**  
**OCT 28 2013**

IN RE: Bentley Oaks Legal Drain )  
Hamilton County, Indiana )

OFFICE OF HAMILTON COUNTY SURVEYOR

PETITION FOR RELOCATION AND RECONSTRUCTION

Spectrum Retirement Communities, LLC (hereinafter "Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the Bentley Oaks Drain, and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the Bentley Oaks Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the Bentley Oaks Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the Bentley Oaks Drain, without cost to other property owners on the watershed of the Bentley Oaks Drain.
5. Proposed relocation and reconstruction will not adversely affect other land owners within the drainage shed.
6. Petitioner requests approval of the proposed relocation and reconstruction under IC 36-9-27-52.5.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the Bentley Oaks Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

  
Signed

S-K Carmel, LLC  
Printed

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

**Bentley Oaks Drain, Highpointe on Meridian Reconstruction**

On this 28<sup>th</sup> day of April, 2014, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction**.

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:

  
Executive Secretary

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

**Bentley Oaks Drain, Highpointe on Meridian Reconstruction**

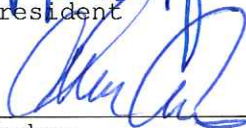
**Existing Structure 101 to the Location of Structure 200**


On this **28<sup>th</sup> day of April, 2014**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction, Existing Structure 101 to the Location of Structure 200**.

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction, Existing Structure 101 to the Location of Structure 200**.

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

Attest:   
\_\_\_\_\_

STATE OF INDIANA     )  
                              ) ss:  
COUNTY OF HAMILTON )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
**Bentley Oaks Drain, Highpointe on Meridian Reconstruction**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction** came before the Hamilton County Drainage Board for hearing **on April 28, 2014**, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
PRESIDENT

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

ATTEST:   
Executive Secretary

Proj: Highpointe on Meridian  
 Proj No: W110381

Date: 10/16/2013

**Engineer Estimate for the Regulated Drain Reconstruction Cost**

UPST STR	STR TYPE	PIPE LENGTH	PIPE SIZE	PIPE MAT.	DNST STR	STR TYPE
204A	2'X2' BOX	12	15"	RCP	204	48" DIA
204	48" DIA	208	24"	RCP	203	48" DIA
203	48" DIA	130	24"	RCP	202	48" DIA
202	48" DIA	361	24"	RCP	201	48" DIA
201	48" DIA	35	24"	RCP	200	END SEC.

QUANTITY				Unit Cost	
1	2'X2'	WEIR STRUCTURE	204A	\$ 2,400.00	\$ 2,400.00
4	48" DIA.	STD MANHOLE	204,203,202,201	\$ 3,500.00	\$ 14,000.00
1	24"	END SECTION	200	\$ 2,500.00	\$ 2,500.00
12	LF, 15"	RCP		\$ 38.00	\$ 456.00
734	LF, 24"	RCP		\$ 88.00	\$ 64,592.00
				<b>TOTAL COST</b>	<b>\$ 83,948.00</b>



HCDB-2013-00053

# PERFORMANCE BOND

Bond No. K08961268

### KNOW ALL MEN BY THESE PRESENTS:

That we, S-K Carmel, LLC as Principal, and Westchester Fire Insurance Company, a corporation organized and doing business under and by virtue of the laws of the State of PA and duly licensed to conduct surety business in the State of Indiana, as Surety, and held and firmly bound unto the Hamilton County Board of Commissioners as obligee, in the sum of One Hundred Thousand Seven Hundred Thirty-Eight and 00/100 Dollars (\$100,738.00)

for which payment, well and truly to be made, we bind ourselves, our heirs, executors and successors, jointly and severally firmly by these presents.

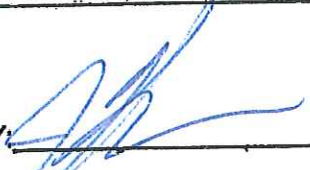
### THE CONDITION OF THE OBLIGEE IS SUCH THAT:

WHEREAS, the above named Principal, has agreed to construct in Highpointe on Meridian in Carmel, Indiana the following improvements: Reconstruction of the Bentley Oak Regulated Drain.

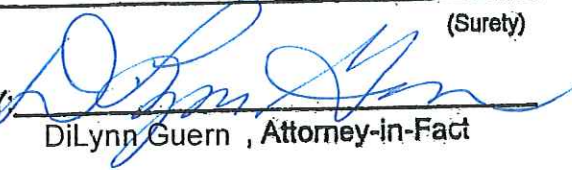
NOW, THEREFORE, the condition of this obligation is such, that if the above Principal shall well and truly perform said agreement or agreements during the original term thereof or of any extension of said term that may be granted by the Obligee with or without notice to the Surety, this obligation shall be void, otherwise it shall remain in full force and effect. The Surety may terminate the bond by mailing 30 day written notice of cancellation to the Obligee and Principal.

IN WITNESS WHEREOF, the seal and signature of said Principal is hereto affixed and the corporate seal and the name of the said Surety is hereto affixed and attested by its duly authorized Attorney-in-Fact, this 25th day of October, 2013:

S-K Carmel, LLC  
(Principal)

BY: 

Westchester Fire Insurance Company  
(Surety)

BY:   
DiLynn Guern, Attorney-in-Fact





# Power of Attorney

## WESTCHESTER FIRE INSURANCE COMPANY

Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to-wit:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such persons written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint DiLynn Guern, Donald E Appleby, Florietta Acosta, J.R. Trojan, Kevin W McMahon, Lindsey Knickerbocker, Mark Sweigart, Sarah Brown, Susan J Lattarulo, Todd Bengford, all of the City of DENVER, Colorado, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Five million dollars & zero cents (\$5,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office.

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 6 day of February 2013.

WESTCHESTER FIRE INSURANCE COMPANY



*Stephen M. Haney*  
Stephen M. Haney, Vice President

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF PHILADELPHIA ss

On this 6 day of February, AD 2013 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney, Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
KAREN E. BRANDT, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires September 26, 2014

*Karen E. Brandt*  
Notary Public

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this 25<sup>th</sup> day of October, 2013.



*William L. Kelly*  
William L. Kelly, Assistant Secretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER February 06, 2015.

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

***Bentley Oaks Drain, Highpointe on Meridian Reconstruction***

NOTICE

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

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Bentley Oaks Drain, Highpointe on Meridian Reconstruction** on **April 28, 2014** at **9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed 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

STATE OF INDIANA     )  
                              ) SS                   BEFORE THE HAMILTON  
                              )  
COUNTY OF HAMILTON )                   DRAINAGE BOARD

**IN THE MATTER OF Bentley Oaks Drain, Highpointe on Meridian  
Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **April 28, 2014** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

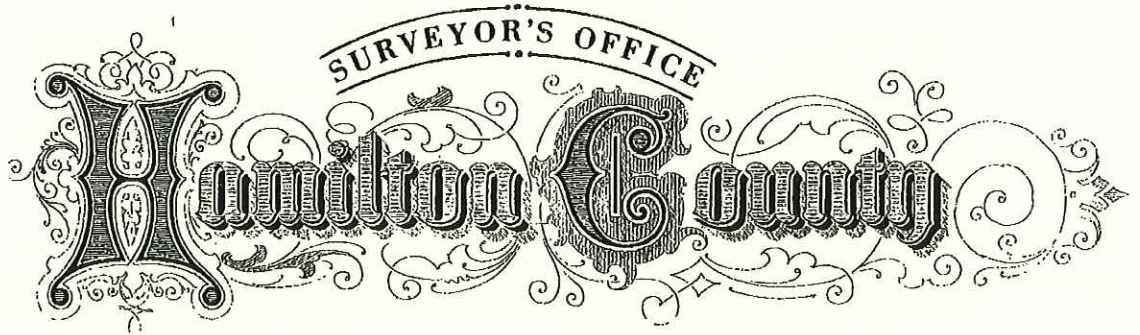
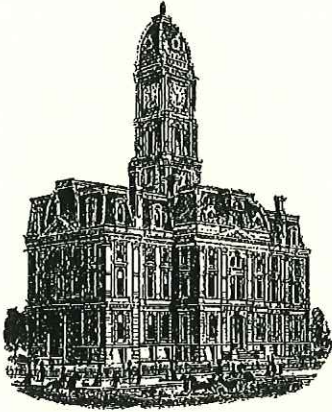
If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Mark Heirbrandt  
PRESIDENT

ATTEST: Lynette Mosbaugh  
SECRETARY

KCW



*Kenton C. Ward, CFM*  
*Surveyor of Hamilton County*  
*Phone (317) 776-8495*  
*Tax (317) 776-9628*

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

**To: Hamilton County Drainage Board**

**October 6, 2015**

**Re: Bentley Oaks: Highpointe on Meridian Reconstruction**

Attached are as-built, certificate of completion & compliance, and other information for Highpointe on Meridian Reconstruction. 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 February 25, 2014. The report was approved by the Board at the hearing held April 28, 2014. (See Drainage Board Minutes Book 15, Pages 394-397)

The changes are as follows:

The 12" RCP was lengthened from 56 feet to 59 feet. The 15" RCP was lengthened from 12 feet to 14 feet. The length of the drain due to the changes described above is now **807 feet**.

It should be noted that 243 feet of open ditch was removed from 2006 Illinois St. Relocation and 440.38 feet of drain was removed from Bentley Oaks Section 1.

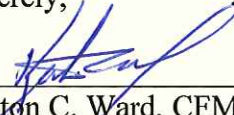
The non-enforcement was approved by the Board at its meeting on April 28, 2011 and recorded under instrument #2014015445.

The following sureties were guaranteed by Westchester Fire Insurance Company and released by the Board on its September 28, 2015 meeting.

Bond-LC K08961268  
Amount: \$100,738.00  
For: Storm Sewers & SSD  
Issue Date: October 25, 2013

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

Sincerely,



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Kenton C. Ward, CFM  
Hamilton County Surveyor

FILED  
JUL 09 2015  
OFFICE OF HAMILTON COUNTY SURVEYOR

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: HIGHPOINTE ON MERIDIAN  
- SPECTRUM RETIREMENT COMMUNITY

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: Alvin E. Skoog, Jr. Date: 7/8/2015

Type or Print Name: ALVIN E. SKOOG, JR

Business Address: WEIHE ENGINEERS, INC.

10505 N. COLLEGE AV., INDPLS, IN

Telephone Number: 317-846-6611 46280

SEAL

INDIANA REGISTRATION NUMBER

880573

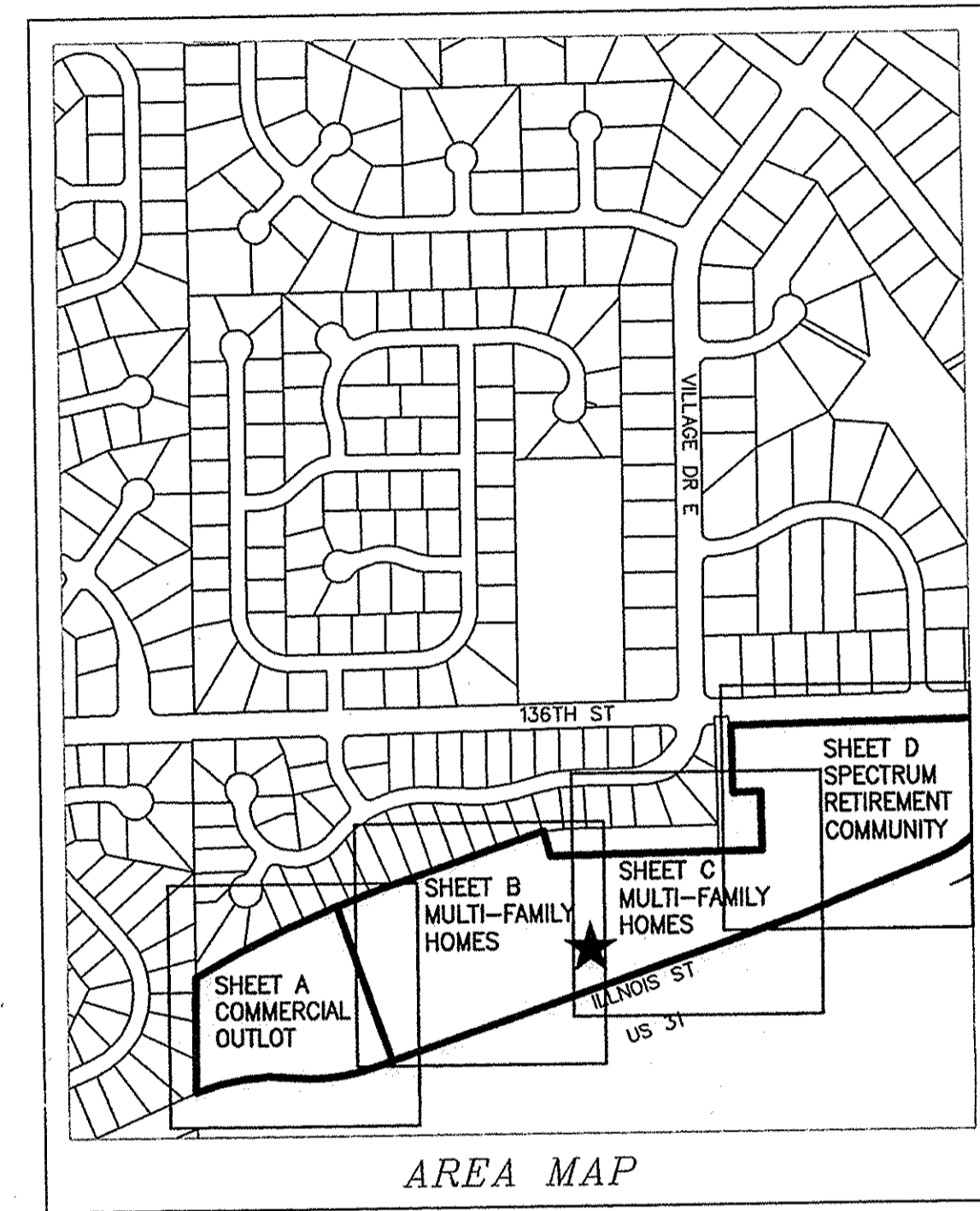
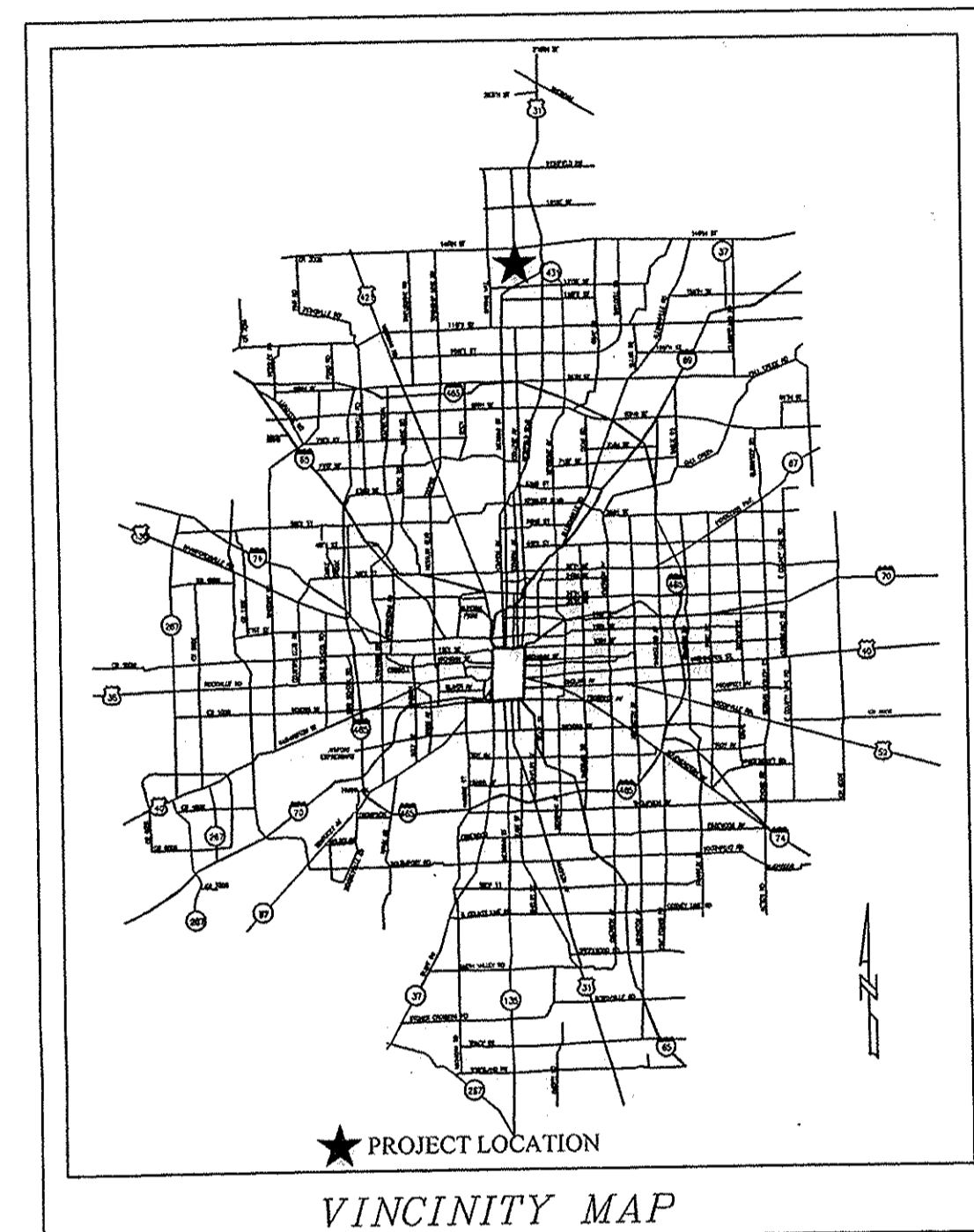


# HIGHPOINTE ON MERIDIAN

136TH ST & ILLINOIS ST.  
CARMEL, INDIANA 46032

## GENERAL NOTES

- 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- 2) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
- 3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- 4) ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- 5) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- 6) IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- 7) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- 8) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- 9) THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 10) ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- 11) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
- 12) THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #180570207F, PANEL 207 OF 290, DATED FEBRUARY 19, 2003.
- 13) BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- 14) THIS SITE DOES CONTAIN WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; CARMEL, INDIANA, NATIONAL WETLANDS INVENTORY MAP DATED 1990 AND DELINEATED BY J.F. NEW, DATED \_\_\_\_\_.
- 15) ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PER-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.
- 16.) IF IT WILL BE NECESSARY TO RELOCATE EXISTING UTILITIES, THE EXPENSE OF SUCH RELOCATION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. ALL UTILITY POLES SHALL BE LOCATED WITHIN ONE FOOT OF THE PROPOSED RIGHT-OF-WAY.



## SHEET INDEX

SHEET NO.	DESCRIPTION
C001	TITLE SHEET
1-4 of 4	ALTA/ACSM LAND TITLE SURVEY
E100A-D	EXISTING CONDITIONS/DEMOLITION PLAN
E200A-D	STORMWATER POLLUTION PREVENTION PLAN PHASE I
E201A-D	STORMWATER POLLUTION PREVENTION PLAN PHASE II
E202-205	STORMWATER POLLUTION PREVENTION DETAILS & SPECS.
E300A-D	SITE PLAN
E301A-D	GRADING PLAN
E302D-E	UTILITY PLAN
E302A-E	EMERGENCY OVERFLOW ROUTE PLAN
E400	CARMEL CURB & PAVING POLICY
E401	ENTRANCE PLAN
E402	ILLINOIS STREET CROSS SECTIONS
E403	MAINTENANCE OF TRAFFIC PLAN
C500A&C	SANITARY SEWER PLAN AND PROFILE
E500A-C	SANITARY SEWER SPECIFICATIONS
E602	SANITARY SEWER DETAILS
C603-606, 609, 610, 612	STORM SEWER PLAN AND PROFILE
E604-612	STORM SEWER DETAILS
E700C-D	WATER MAIN PLANS
E700A-D	WATER MAIN DETAILS
E701	WATER MAIN DETAILS
E702	WATER MAIN DETAILS
E800-804	EXISTING GAS MAIN PLAN AND PROFILE
E802-804	CONSTRUCTION DETAILS
E900A-B	AUTOTURN EXHIBITS

## BENCHMARK

BENCHMARK: HAM G56  
BRONZE DISK ON CONCRETE POST 1.5" OUT OF GROUND ALONG US-31, 3.7 MILES N. OF I-465, 0.7 MILE W. OF MERIDIAN ST., 100' W. OF C.V.L. OF S.E. LANE OF US-31 AND 2' E. OF R/W FENCE AT STA. 465+00  
HORIZONTAL DATUM BASED ON INDIANA STATE PLANE COORDINATES NAD83  
ELEV-879.76 (NGVD29) - 0.40 FT = 879.36 (NAVD88)

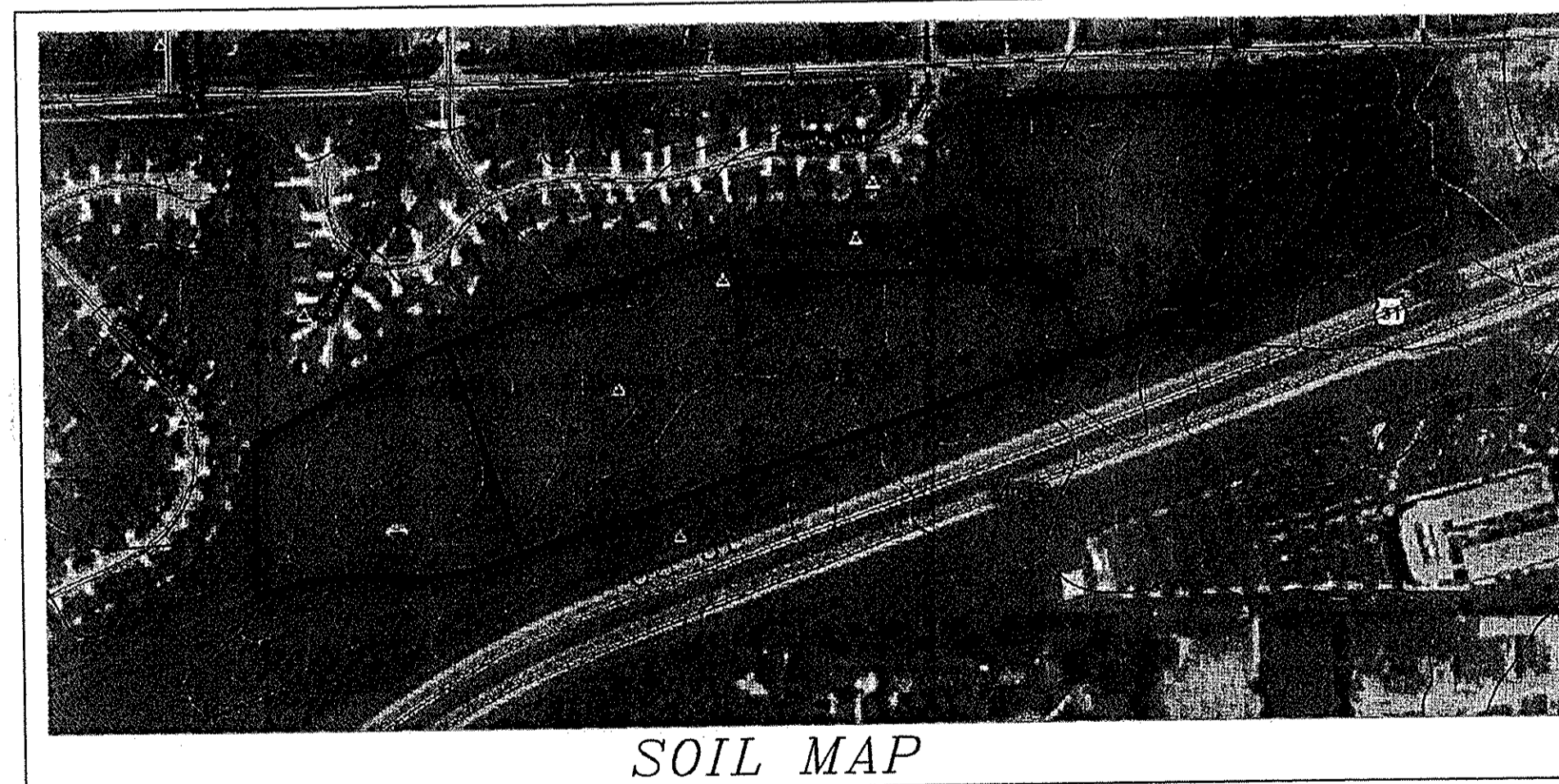
## EXISTING ZONING - PLANNED UNIT DEVELOPMENT

TOTAL ACREAGE: 26.415 AC.  
THREE BLOCKS

## PERIMETER DESCRIPTION OF HIGHPOINTE ON MERIDIAN

A part of the Northeast Quarter of Section 26, Township 18 North, Range 3 East of the Second Principal Meridian, Clay Township, Hamilton County, Indiana being more particularly described as follows:

Commencing at the Northwest Corner of said Quarter; thence on the West line thereof South 00 degrees 09 minutes 47 seconds West (assumed bearing) 774.74 feet to the Southwest corner of Bentley Oaks Subdivision per the plat thereof recorded in Plat Cabinet 1, Slide 170 in the Office of the Recorder of Hamilton County, Indiana, being the point of curvature of a non-tangent curve to the right having a radius of 3036.83 feet and a central angle of 11 degrees 56 minutes 11 seconds; said point being the Point of Beginning; thence on the perimeter of said Bentley Oaks Subdivision the following three (3) calls: (1) on said curve 632.66 feet being subtended by a chord bearing North 65 degrees 04 minutes 13 seconds East 631.52 feet to the point of tangency; (2) North 71 degrees 02 minutes 18 seconds East 534.23 feet; (3) South 14 degrees 20 minutes 47 seconds East 81.22 feet; thence continuing on said perimeter and on the South line of the land described in Instrument #2004-66172 in the Office of said Recorder North 89 degrees 03 minutes 37 seconds East 652.50 to the Southeast Corner of said land; thence on the perimeter of said land the following three (3) calls: (1) North 00 degrees 56 minutes 23 seconds West 205.00 feet; (2) South 89 degrees 03 minutes 37 seconds West 85.00 feet; (3) North 00 degrees 56 minutes 23 seconds West 205.00 feet to the South line of the land described in Instrument #2009-7397 in the Office of said Recorder; thence on the South line of said land North 89 degrees 03 minutes 37 seconds East 772.92 feet to the Southwest line of the land described in Instrument #2010-37541 in the Office of said Recorder; thence on said Southwest line South 51 degrees 19 minutes 42 minutes East 130.92 feet to the westerly line of the land described in Instrument #2009-7397; thence on the perimeter of said land the following seven (7) calls: (1) South 13 degrees 05 minutes 48 seconds West 124.62 feet to a non-tangent curve to the right having a radius of 355.00 feet and a central angle of 50 degrees 56 minutes 51 seconds; (2) on said curve 315.67 feet being subtended by a chord bearing South 43 degrees 04 minutes 07 seconds West 305.37 feet to the point of tangency; (3) South 68 degrees 32 minutes 32 seconds West 465.66 feet to the point of curvature of a tangent curve to the right having a radius of 955.00 feet; (4) on said curve 41.24 feet to the point of tangency; (5) South 71 degrees 00 minutes 59 seconds West 1357.27 feet to the point of curvature of a curve to the right having a radius of 555.00 feet; (6) on said curve 241.27 feet to the point of reverse curvature of a curve to the left having a radius of 645.00 feet; (7) on said curve 310.99 feet to the West line of said Northeast Quarter; thence on said West line North 00 degrees 09 minutes 47 seconds East 353.85 feet to the Point of Beginning, containing 26.41 Acres, more or less.



## PLAN NOTE

BOUNDARY SURVEY INFORMATION SHOWN HEREON FROM ALTA/ACSM LAND TITLE SURVEY PREPARED BY WEIHE ENGINEERS, DATED JULY 15, 2011

## BLOCK 1 DESIGN DATA - SPECTRUM

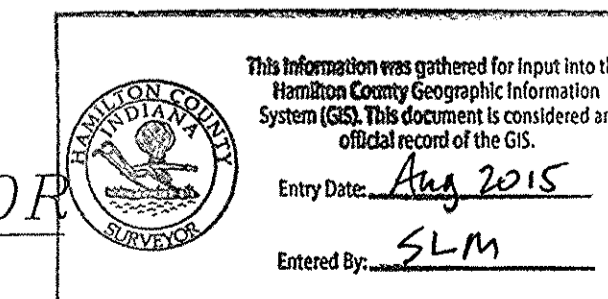
TOTAL ACREAGE: 8.18 ACRES ±  
TOTAL IMPERVIOUS: 3.35 ACRES ±  
TOTAL UNITS: 141 UNITS (20.9 UNITS/ACRE)  
GARAGE PARKING: 12 SPACES  
PARKING SPACES: 86 SPACES  
A.D.A. PARKING SPACES: 4 SPACES  
TOTAL SPACES: 102 SPACES  
PARKING TO UNIT RATIO: 0.72:1.0 P.S./UNIT

## BLOCK 2 DESIGN DATA - J C HART

TOTAL ACREAGE: 12.81 ACRES ±  
TOTAL IMPERVIOUS: 7.90 ACRES ±  
STUDIO UNITS: 40  
ONE BEDROOM UNITS: 110  
TWO BEDROOM UNITS: 106  
THREE BEDROOM UNITS: 19  
TOTAL UNITS: 235 UNITS (26.3 UNITS/ACRE)  
GARAGE PARKING: 158 SPACES  
PARKING SPACES: 223 SPACES  
A.D.A. PARKING SPACES: 16 SPACES  
TOTAL SPACES: 397 SPACES  
PARKING TO UNIT RATIO: 1.5:1.0 P.S./UNIT

## BLOCK 3 DESIGN DATA - TBD

TOTAL ACREAGE: 5.42 ACRES ±



## OPERATING AUTHORITIES

CITY OF CARMEL  
ONE CIVIC SQUARE  
CARMEL, IN 46032  
ASSISTANT PLANNER: ANGIE CONN  
317-571-2417  
DEPT. OF ENGINEERING: GARY DUNCAN  
317-571-2441  
ASSIST. BUILDING COMMISSIONER: BILL HOHLT  
317-571-2444

CITY OF CARMEL FIRE DEPARTMENT  
TWO CIVIC SQUARE  
CARMEL, INDIANA 46032  
CHRIS ELLISON  
317-571-2600

HAMILTON COUNTY HEALTH DEPARTMENT  
HAMILTON COUNTY JUDICIAL CENTER, SUITE 30  
NOBLESVILLE, INDIANA 46060-2229  
JASON LEMASTER  
317-776-8500

CARMEL CITY UTILITIES  
760 3RD AVENUE S.W.  
CARMEL, INDIANA 46032  
JOHN DUFFY  
317-571-2443

HAMILTON COUNTY SURVEYOR'S OFFICE  
ONE HAMILTON SQUARE, SUITE 188  
HAMILTON COUNTY JUDICIAL CENTER  
NOBLESVILLE, INDIANA 46060  
GREG HOYES  
317-776-8495

BRIGHTHOUSE NETWORKS  
3030 ROOSEVELT AVE.  
INDIANAPOLIS, IN 46218  
JASON KIRKMAN  
317-632-9077 EXT. 291

DUKE ENERGY  
18475 SOUTH PARK DRIVE  
WESTFIELD, INDIANA 46074  
SHIRLEY HUNTER  
317-896-6711

VECTREN ENERGY  
P.O. BOX 1700  
NOBLESVILLE, INDIANA 46061-1700  
JOANIE CLARK  
317-776-5532

BUCKEYE PARTNERS, L.P.  
940 BUCKEYE ROAD  
LIMA, OH 45804  
MARTIN WHITE  
419-993-8008

## PLANS PREPARED BY

WEIHE ENGINEERS, INC.  
10505 N. COLLEGE AVE.  
INDIANAPOLIS, IN 46280  
TELEPHONE: (317) 846-6611  
FAX: (317) 843-0546  
PROJECT MANAGER: COLIN R. PATTERSON, P.E.  
Pattersonc@weihe.net  
SURVEYOR: BRADY KUHN, P.L.S.  
KuhnB@weihe.net

## PLANS PREPARED FOR

J.C. HART COMPANY, INC.  
805 CITY CENTER DRIVE #120  
CARMEL, IN 46032  
TELEPHONE: 317-573-4800  
CONTACT PERSON: TODD MAY

## SPECTRUM PLANS PREPARED FOR

SPECTRUM RETIREMENT COMMUNITIES, LLC  
200 SPRUCE STREET, SUITE 200  
DENVER, CO 80230  
TELEPHONE: 303-360-8812  
CONTACT PERSON: MIKE LONGFELLOW

RECORD DRAWING ~~REVISED FINAL CONSTRUCTION PLANS - DATED 4-18-2014~~

10505 N. College Avenue  
Indianapolis, Indiana 46280  
weihe.net  
317 | 846 - 6611  
800 | 452 - 6408  
317 | 843 - 0546 fax  
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.: W11-0381  
DATE: 3/13/14  
BY: 4/19/14  
CHECKED BY: JES  
DATE: 10/24/2013

REVISIONS AND ISSUES  
SANITARY SEWER PERSON  
AREA ACCESS REGION  
REVISED GRADES

HIGHPOINTE ON MERIDIAN  
J.C. HART COMPANY, INC. / SPECTRUM RETIREMENT COMMUNITIES  
TITLE SHEET

SHEET NO.  
**C001**  
PROJECT NO.  
W11-0381

**UTILITY PLAN NOTES:**

**SANITARY SEWER NOTES:**

- (SS1) CONNECT PROPOSED 8" SANITARY SEWER LATERAL TO PROPOSED SANITARY SEWER MAIN. COORDINATE CONNECTION WITH MEP. PROVIDE CLEANOUTS AS REQUIRED/SHOWN. VERIFY INVERTS ON EXISTING MANHOLE AND COORDINATE CONDITIONS WITH MEP. ADJUST AS REQUIRED. COREDRILL & SEAL CONNECTION.
  - (SS2) PROPOSED SANITARY LATERAL CLEANOUT TYPE 1. REFER TO DETAIL ON SHEET C502.
  - (SS3) PROPOSED SANITARY LATERAL CLEANOUT TYPE 2. REFER TO DETAIL ON SHEET C502.
  - (SS4) PROVIDE 18" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY/STORM SEWER PIPES AND ALL OTHER PIPES. INSTALL CONCRETE CRADLE IF CLEARANCE IS LESS THAN 18"
  - (SS5) CONNECT PROPOSED 8" SEWER MAIN TO PROPOSED MANHOLE. COREDRILL & SEAL CONNECTION.
  - (SS6) GREASE/OIL SEPARATOR.
  - (SS7) MANHOLE FOR GREASE INSPECTION.
  - (SS8) SANITARY SEWER MACERATOR, 7 GPM AVERAGE FLOW. PROVIDE 2" CONDUIT FOR POWER SUPPLY FROM THE BUILDING.
  - (SS9) USE TRENCHLESS BORING TECHNOLOGY TO INSTALL PROPOSED 8" SANITARY SEWER MAIN WITHIN THE PUBLIC RIGHT OF WAY OF 136TH STREET. CONNECT PROPOSED 8" SEWER MAIN TO EXISTING MANHOLE.
- SITE WATER SERVICE NOTES: SEE SHEET C700A-D FOR WATER MAIN PLAN**

**STORM SEWER NOTES:**

- (ST1) CONNECT DOWNSPOUTS TO 6" HDPE ROOF DRAINS AT 1.00% MINIMUM
- (ST2) 12" HDPE ROOF DRAINS AT 0.50% MINIMUM
- (ST3) OUTLET CONTROL STRUCTURE.
- (ST4) 12" PERFORATED DOUBLE WALLED HDPE @ 0.1% MINIMUM.
- (ST5) NOT USED.
- (ST6) CONNECT TO BUILDING INTERIOR ROOD DRAIN

**SITE ELECTRIC NOTES:**

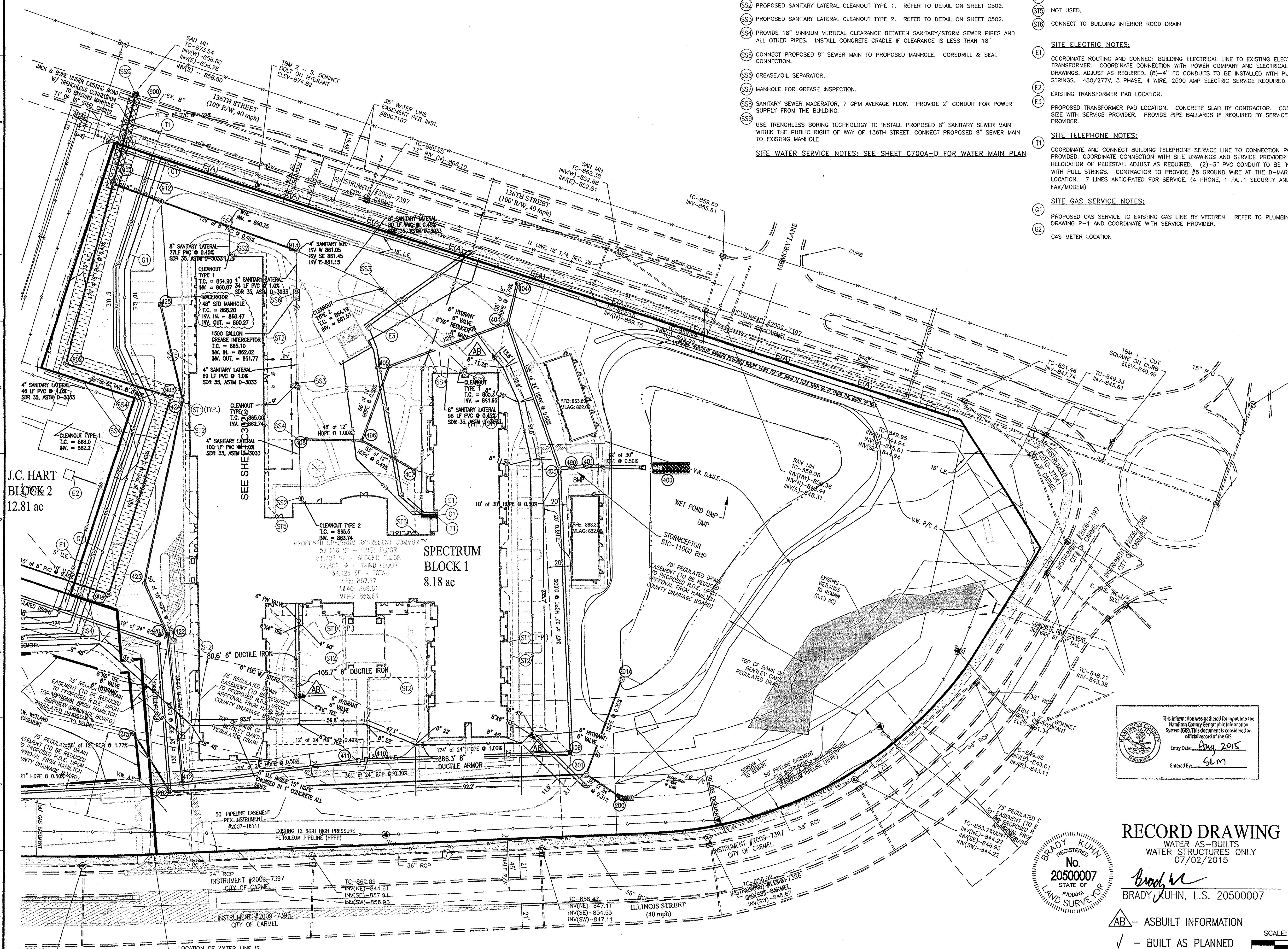
- (E1) COORDINATE ROUTING AND CONNECT BUILDING ELECTRICAL LINE TO EXISTING ELECTRICAL TRANSFORMER. COORDINATE CONNECTION WITH POWER COMPANY AND ELECTRICAL DRAWINGS. ADJUST AS REQUIRED. (8)-4" EC CONDUITS TO BE INSTALLED WITH PULL STRINGS. 480/277V, 3 PHASE, 4 WIRE, 2500 AMP ELECTRICAL SERVICE REQUIRED.
- (E2) EXISTING TRANSFORMER PAD LOCATION.
- (E3) PROPOSED TRANSFORMER PAD LOCATION. CONCRETE SLAB BY CONTRACTOR. COORDINATE SIZE WITH SERVICE PROVIDER. PROVIDE PIPE BALLARDS IF REQUIRED BY SERVICE PROVIDER.

**SITE TELEPHONE NOTES:**

- (T1) COORDINATE AND CONNECT BUILDING TELEPHONE SERVICE LINE TO CONNECTION POINT AS PROVIDED. COORDINATE CONNECTION WITH SITE DRAWINGS AND SERVICE PROVIDER FOR RELOCATION OF PEDESTAL. ADJUST AS REQUIRED. (2)-3" PVC CONDUIT TO BE INSTALLED WITH PULL STRINGS. CONTRACTOR TO PROVIDE #6 GROUND WIRE AT THE D-MARC LOCATION. 7 LINES ANTICIPATED FOR SERVICE. (4) PHONE, 1 FA, 1 SECURITY AND 1 FAX/MODEM)

**SITE GAS SERVICE NOTES:**

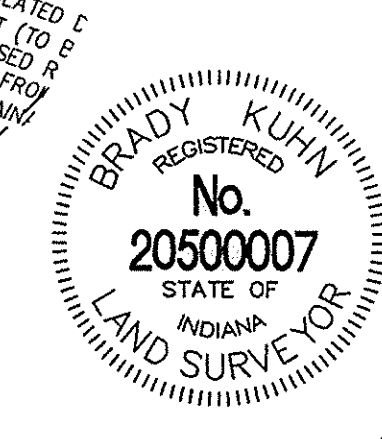
- (G1) PROPOSED GAS SERVICE TO EXISTING GAS LINE BY VECTREN. REFER TO PLUMBING DRAWING P-1 AND COORDINATE WITH SERVICE PROVIDER.
- (G2) GAS METER LOCATION



**LEGEND**

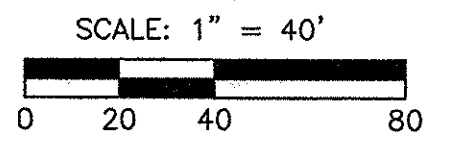
---	RIGHT-OF-WAY LINE
---	EXISTING STORM SEWER LINE
---	SWALE
---	EXISTING SANITARY SEWER LINE
---	PROPOSED SANITARY SEWER MANHOLE
---	SANITARY SEWER LATERAL
---	FLOW DIRECTION
---	EXISTING SPOT ELEVATION
---	EXISTING CONTOURS
---	PROPOSED ELEVATION
---	STORM BEEHIVE INLET
---	STORM INLET
---	TOP OF CASTING
---	INVERT
---	REINFORCED CONCRETE PIPE
---	MANHOLE
---	STRUCTURE
---	DRAINAGE AND UTILITY EASEMENT
---	SANITARY, DRAINAGE, AND UTILITY EASEMENT
---	SANITARY SEWER EASEMENT
---	HANDICAP RAMP
---	MATCH EXISTING GRADE
---	SUBSURFACE DRAIN
---	STORM SEWER LATERAL AND SUMP LINE
---	CONCRETE END SECTION
---	SUBSURFACE DRAIN
---	TYPICAL
---	PROPOSED
---	EXISTING
---	MIN FINISH FLOOR ELEVATION
---	MIN FLOOD PROTECTION GRADE
---	BUILDING SETBACK LINE
---	INGRESS/EGRESS EASEMENT
---	EMERGENCY FLOW ROUTE
---	DENOTES LOCATION OF ADA RAMP
---	DENOTES DRIVING DIRECTION
---	PROPOSED STORM SEWER LINE
---	PROPOSED SANITARY SEWER LINE
---	PROPOSED ROOF DRAIN

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: Aug 2015  
 Entered By: GLM



**RECORD DRAWING**  
 WATER AS-BUILTS  
 WATER STRUCTURES ONLY  
 07/02/2015  
 Brady Kuhn  
 BRADY KUHN, L.S. 20500007

**811**  
 Know what's below.  
 Call before you dig.  
 Within Indiana Call  
 811 or 800-382-5544  
 24 Hours a Day, 7 Days a Week  
 PER INDIANA STATE LAW IC 8-1-26,  
 IT IS AGAINST THE LAW TO EXCAVATE  
 WITHOUT NOTIFYING THE UNDERGROUND  
 LOCATION SERVICE TWO (2) WORKING  
 DAYS BEFORE COMMENCING WORK.



**RECORD DRAWING REVISED FINAL CONSTRUCTION PLANS DATED 4-18-2014**

10505 N. College Avenue  
 Indianapolis, Indiana 46280  
 www.weihe.net  
 317 846 - 6611  
 800 452 - 6408  
 317 843 - 0546 fax  
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE ENGINEERS**  
 Land Surveying | Civil Engineering  
 Landscape Architecture

PRODUCT NO.	W11-0381
DWG NAME	C302D
DESIGNER	WJ
DRAWN BY	WJ
CHECKED BY	WJ
DATE	10/24/2013

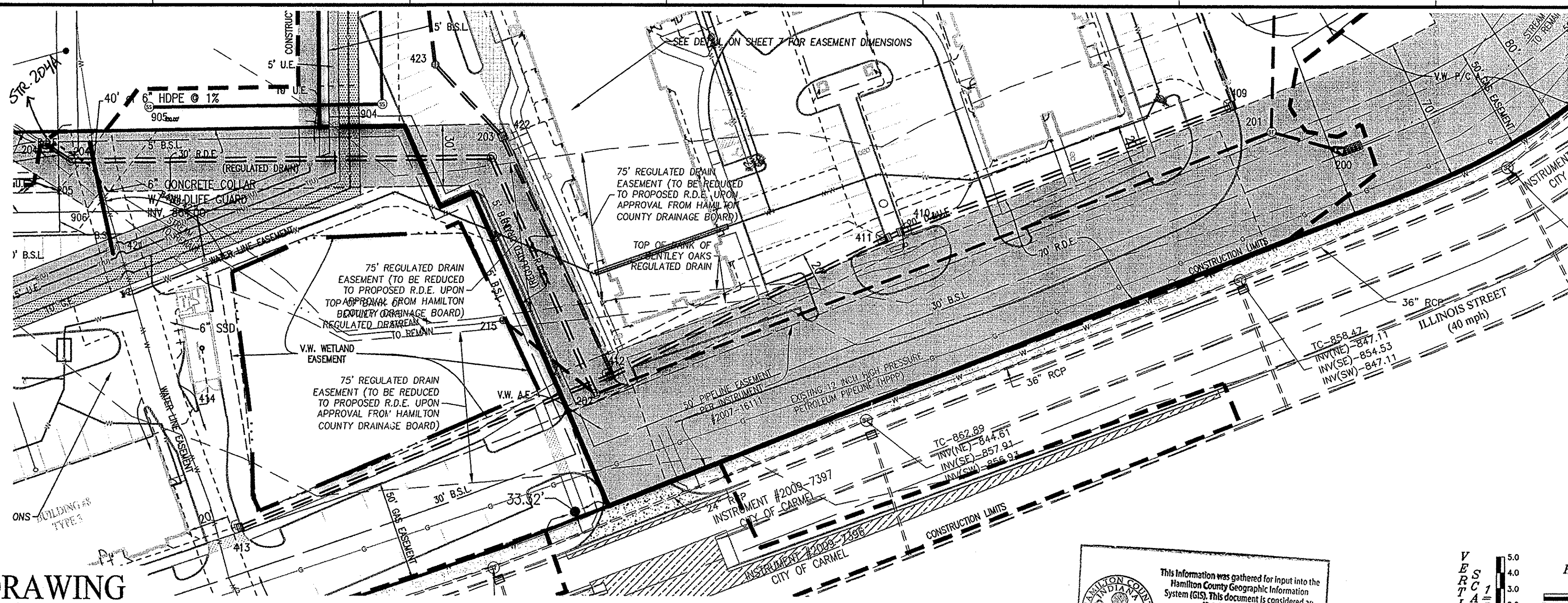
REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION
1	3/13/14	CRP
2	4/18/14	MEZ
3	7/20/14	MEZ

PREPARED FOR:  
 SPECTRUM RETIREMENT COMMUNITIES  
 J.C. HART COMPANY, INC. / SPECTRUM RETIREMENT COMMUNITIES  
 UTILITY PLAN

SHEET NO.  
**C302D**  
 PROJECT NO.  
 W11-0381





**MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY**

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 PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0". BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2'-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.

COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE BASIS AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.

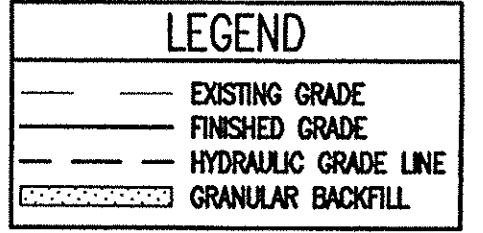
THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

**STORM SEWER PLAN AND PROFILE NOTES:**

FULL DEPTH GRANULAR BACKFILL SHALL BE PER DETAIL ON SHEET C605. REFER TO DETAIL ON SHEET C605 FOR TRENCHING, BACKFILL AND COVER REQUIREMENTS. PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND DOES NOT INCLUDE END SECTIONS.

THERE SHALL BE NO FRAMES, CASTINGS, OR VALVE BOX EXTENSIONS IN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATH FOR ANY UTILITY INSTALLATIONS IN THE RIGHT-OF-WAY WITH THE EXCEPTION OF CURB INLET CASTINGS.

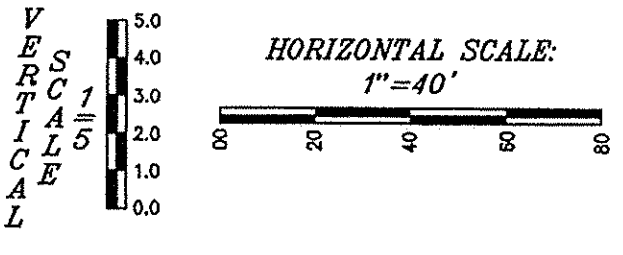
SEE STRUCTURE DATA TABLE ON UTILITY PLAN, SHEET C302, FOR STRUCTURE AND CASTING TYPES.



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: Aug 2015

Entered By: SKM

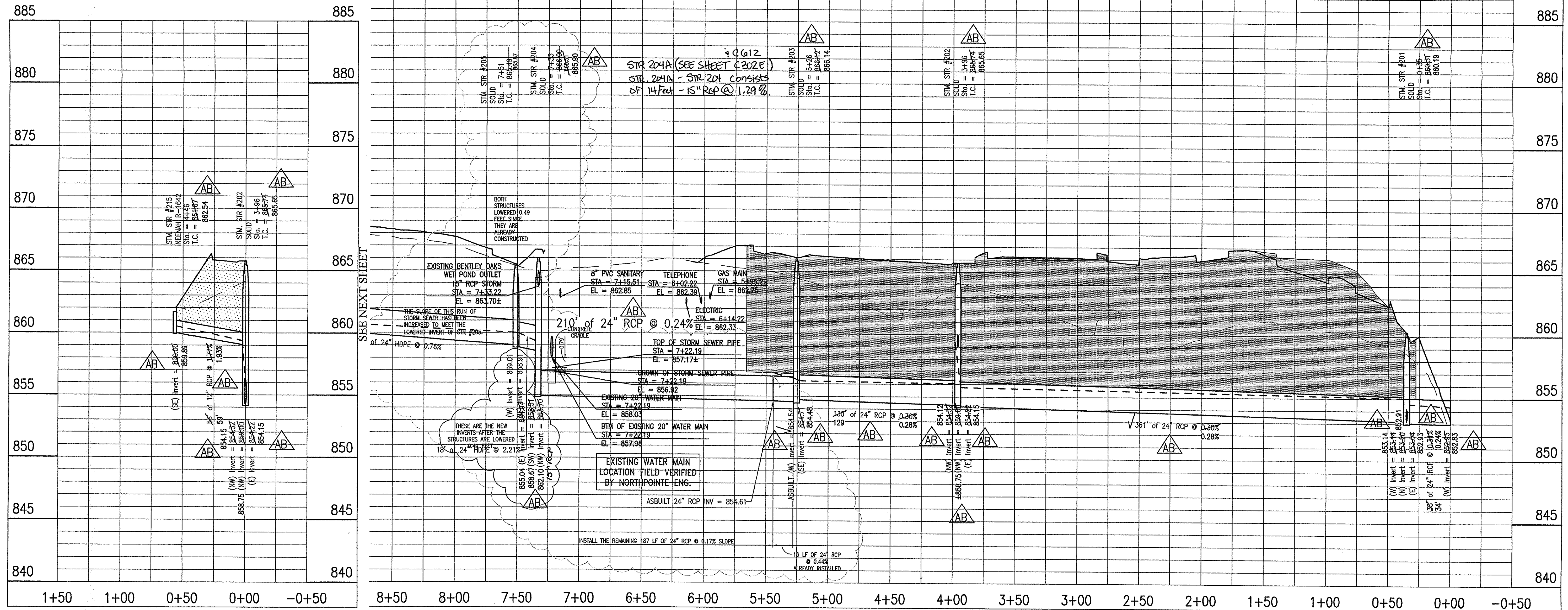


**RECORD DRAWING**  
STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
07/02/2015



*Brady Kuhn*  
BRADY KUHN, L.S. 20500007

△ - ASBUILT INFORMATION  
✓ - BUILT AS PLANNED



**RECORD DRAWING REVISED FINAL CONSTRUCTION PLANS DATED 4-18-2014**

10505 N. College Avenue  
Indianapolis, Indiana 46280  
weihe.net

317 | 846 - 6611  
800 | 452 - 6408  
317 | 843 - 0546 fax

ALLAN H. WEIHE, P.E., L.S., FOUNDER

**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

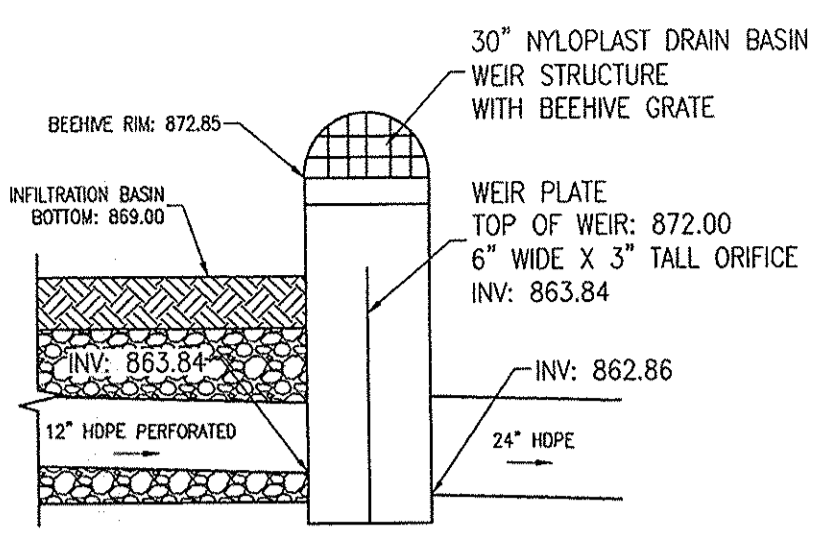
PROJECT NO.: W11-0381  
DRAWN BY: SKM  
CHECKED BY: JCS  
DATE: 10/24/2013

REVISIONS AND ISSUES:  
DATE: 3/13/14  
BY: CRP  
DESCRIPTION: SANITARY SEWER REVISION  
DATE: 4/18/14  
BY: JCS  
DESCRIPTION: REVISED GRADES

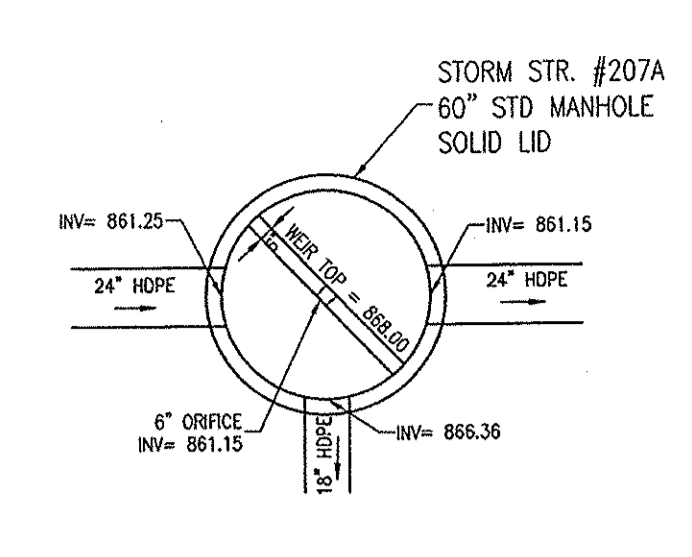
PREPARED FOR:  
**HIGHPOINT ON MERIDIAN**  
J.C. HART COMPANY, INC. / SPECTRUM RETIREMENT COMMUNITIES

SHEET NO.: **C606**  
PROJECT NO.: W11-0381

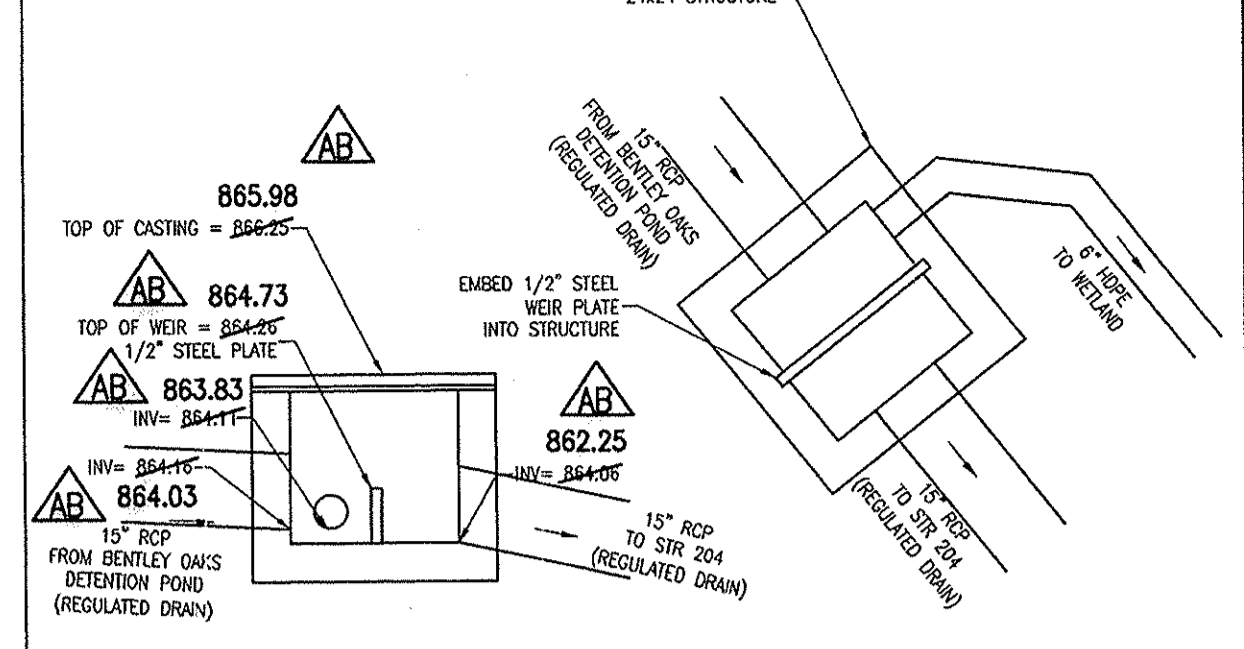
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PLOTTER: HP DesignJet T1100e  
PLOT SCALE: 1.0000  
PLOT SHEETS: 1/1  
PLOT STATUS: SUCCESS



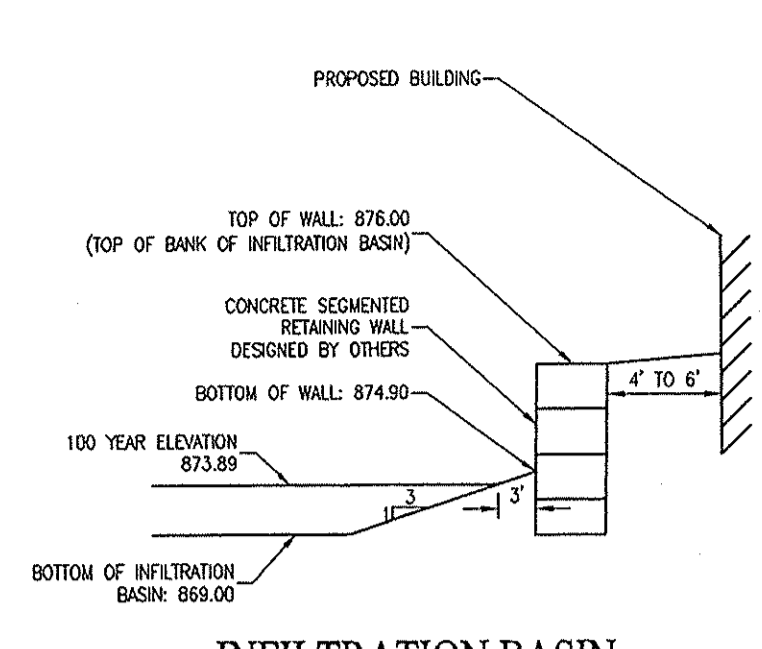
INFILTRATION BASIN OUTLET CONTROL STRUCTURE #209



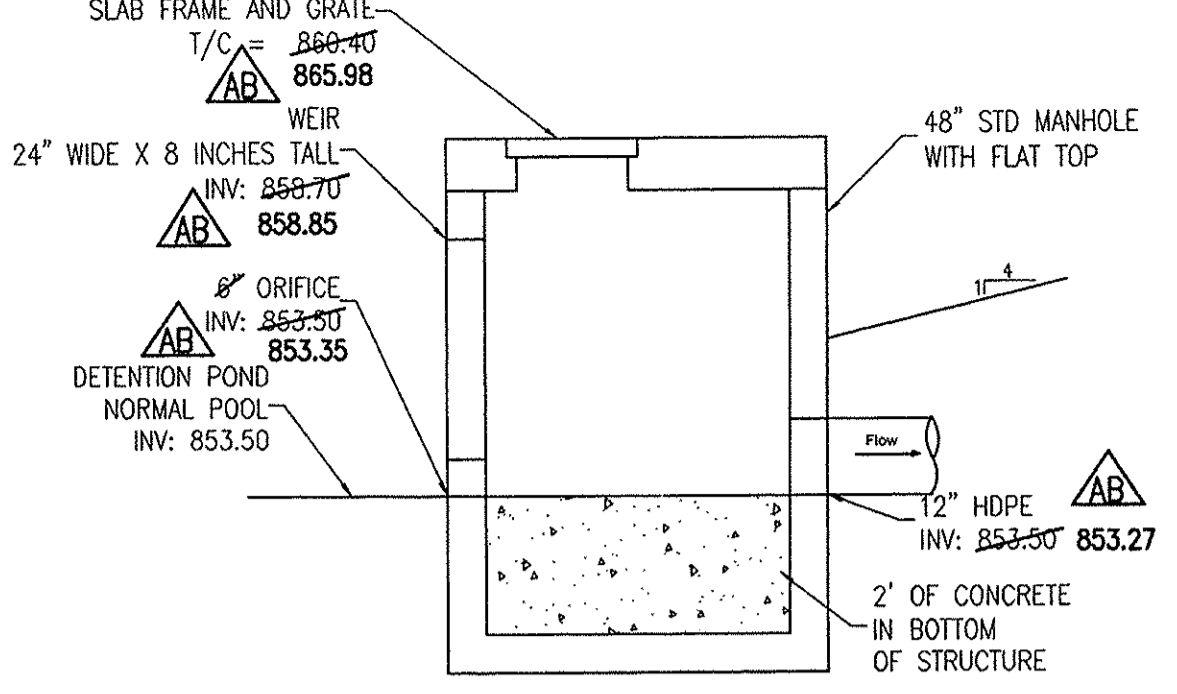
STORM STRUCTURE #207A DETAIL DIVERSION WEIR



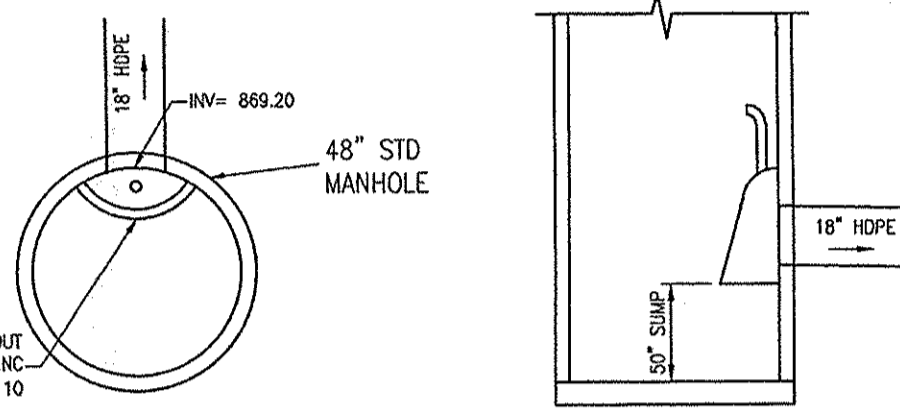
STORM STRUCTURE #204A DETAIL DIVERSION WEIR



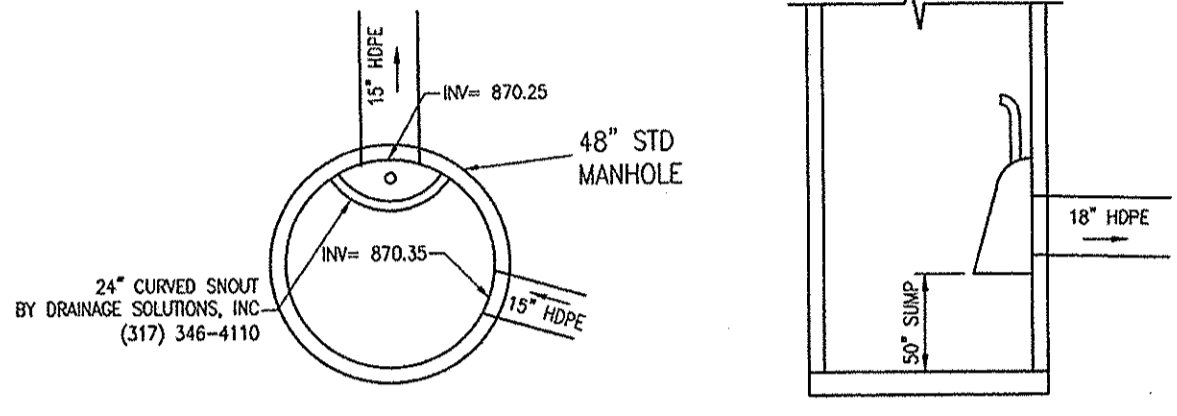
INFILTRATION BASIN CONCRETE SEGMENTAL RETAINING WALL DETAIL



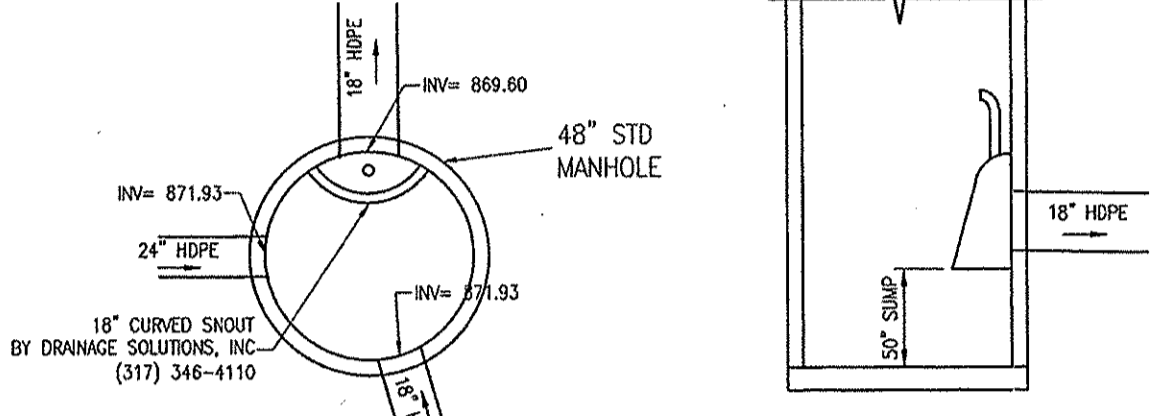
STORM STRUCTURE #201A DETAIL OUTLET CONTROL



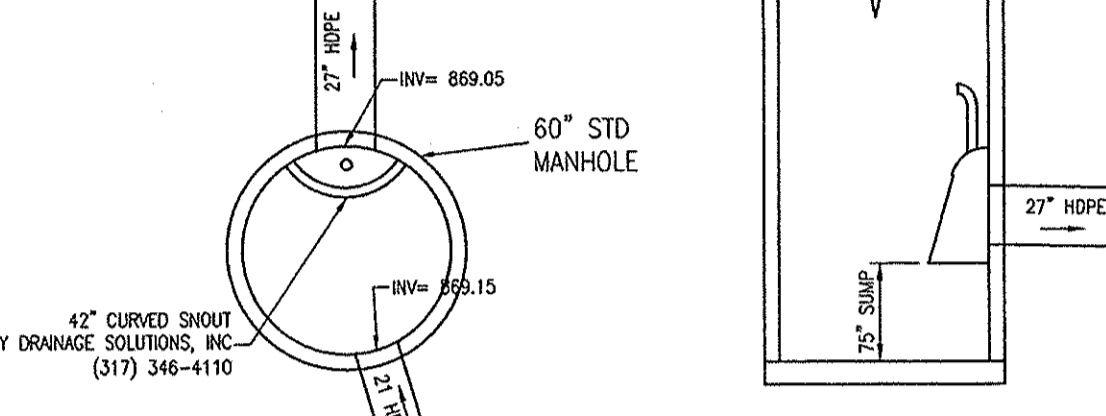
STORM STRUCTURES #450 AND #452 DETAIL SUMP WITH SNOOT BMP



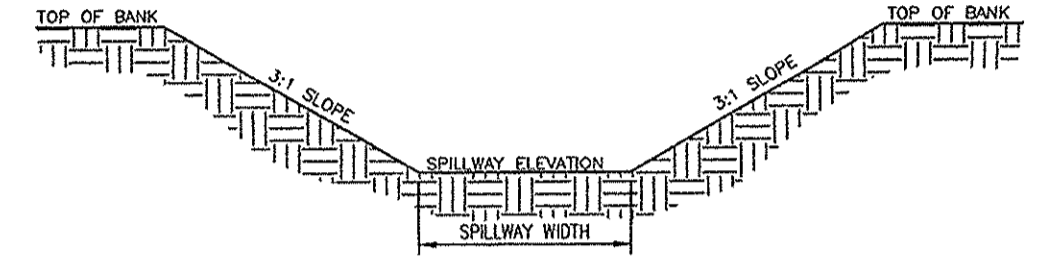
STORM STRUCTURE #443 DETAIL SUMP WITH SNOOT BMP



STORM STRUCTURE #436 DETAIL SUMP WITH SNOOT BMP



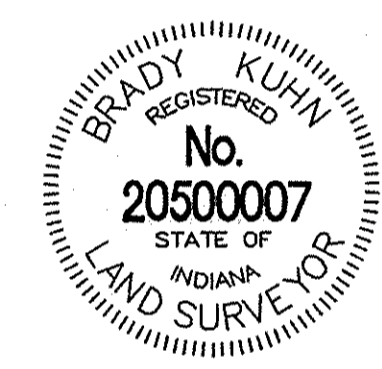
STORM STRUCTURE #427 DETAIL SUMP WITH SNOOT BMP



EMERGENCY SPILLWAY TYPICAL SECTION (NO SCALE)

Table with 5 columns: LAKE DESIGNATION, TOP OF BANK ELEV., 100YR. ELEV., SPILLWAY ELEV., SPILLWAY WIDTH. Rows include West Dry and East Wet.

RECORD DRAWING STORM SEWER AS-BUILTS STORM SEWER STRUCTURES ONLY 07/02/15

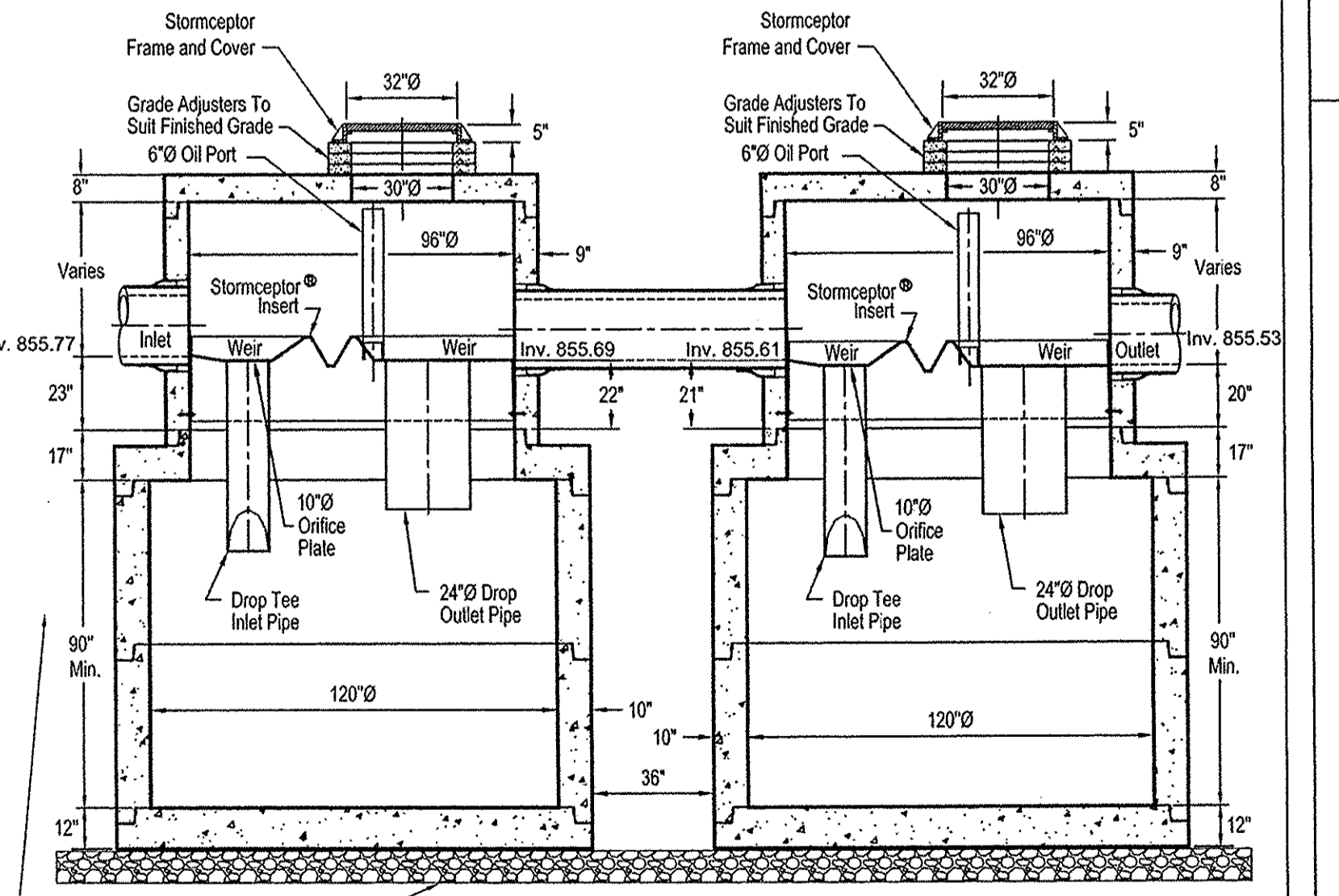


BRADY KUHN, L.S. 20500007

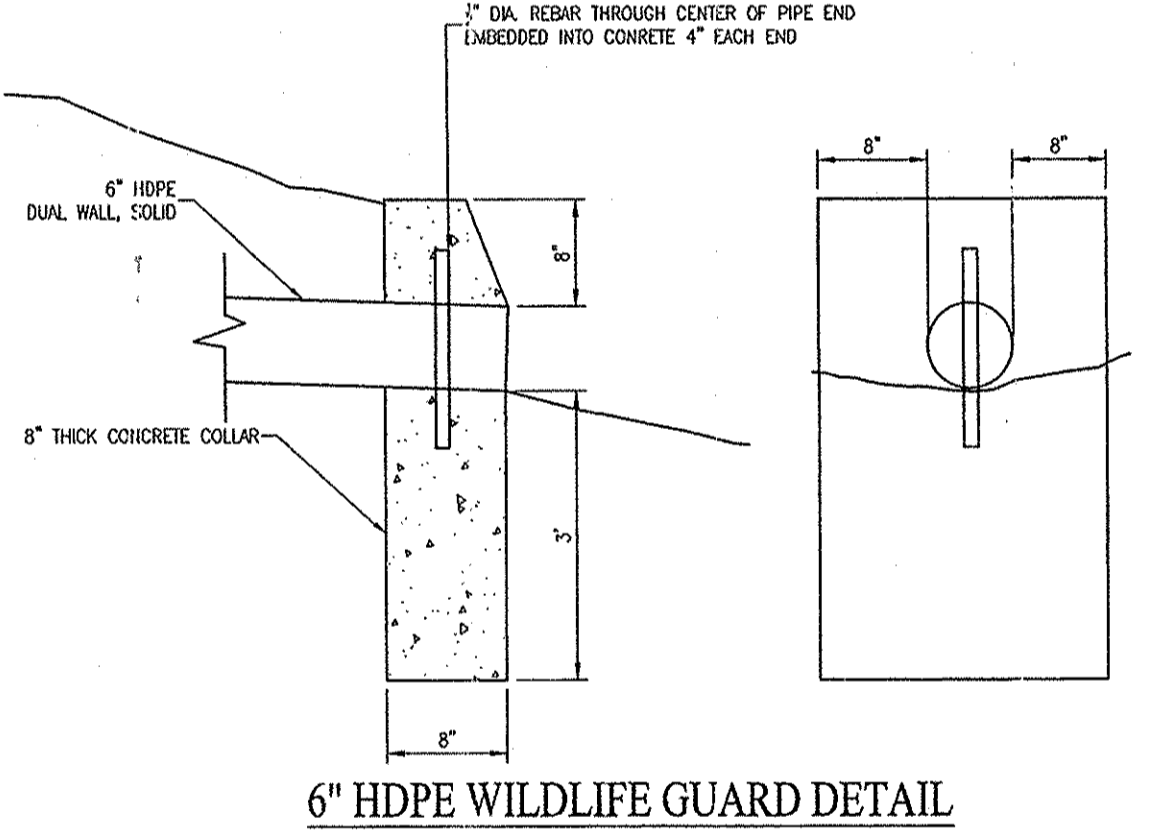
ASBUILT INFORMATION BUILT AS PLANNED

Concrete Pipe Division

STC 11000s Precast Concrete Stormceptor (11000 U.S. Gallon Capacity)



- Notes: 1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable. 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port. 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690. 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

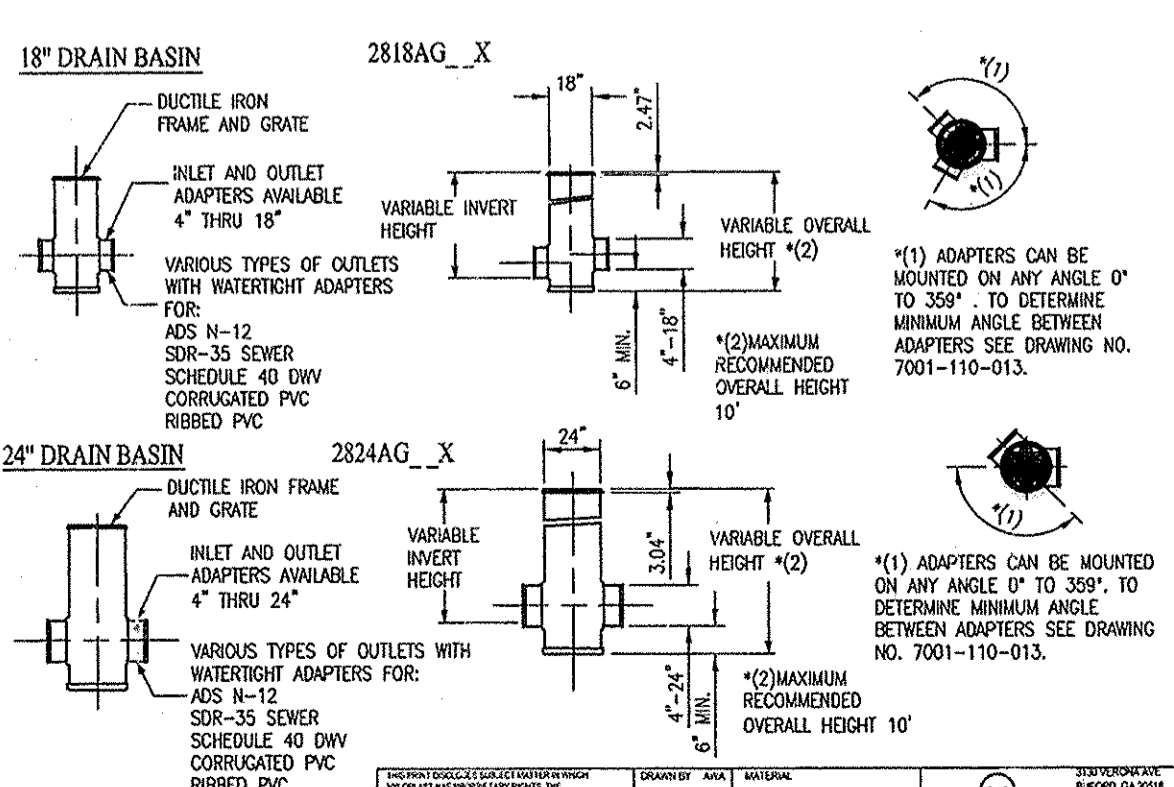


6\"/>

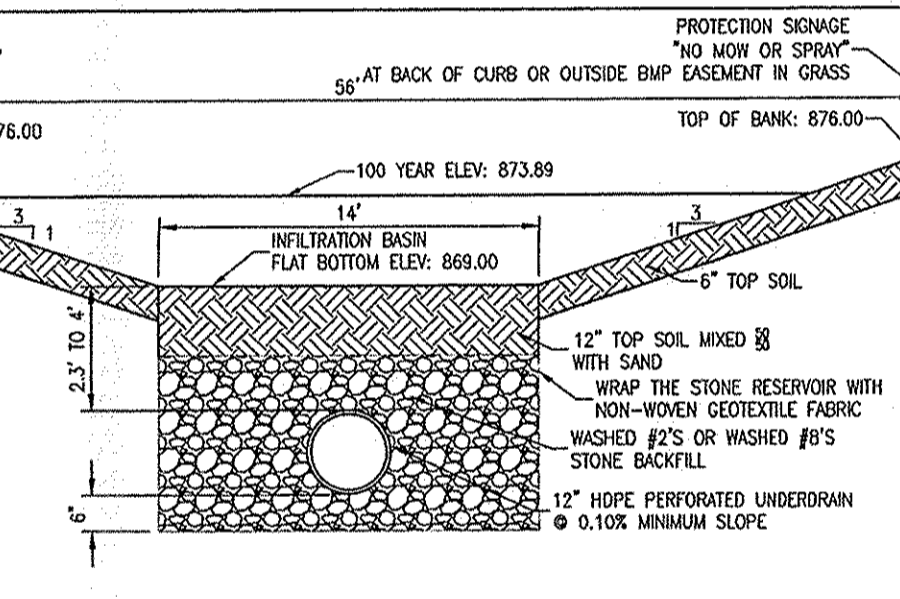
- Emergent shallow species (up to 6\"/>

- Emergent deep species (up to 18\"/>

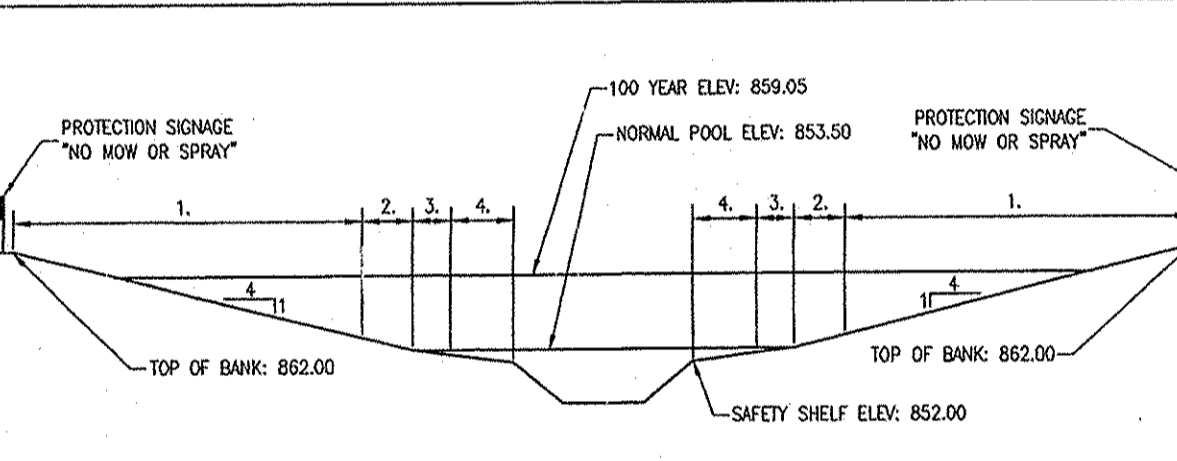
WET POND SAFETY LEDGE PLUG SPECIES



18\"/>



INFILTRATION BASIN CROSS SECTION



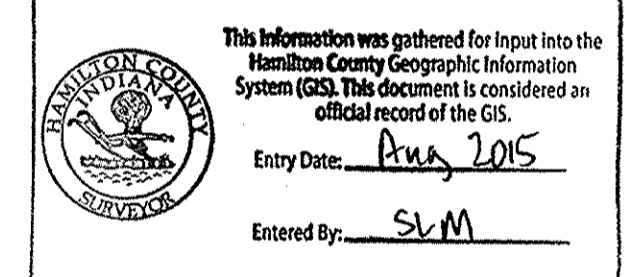
WET POND PLANTING DETAIL

Table with 3 columns: BOTANICAL NAME, COMMON NAME, PLS. OZ./ACRE. Lists various plant species for stormwater and temporary cover.

"STORMWATER" SEED MIX PROVIDED BY CARDNO JF NEW

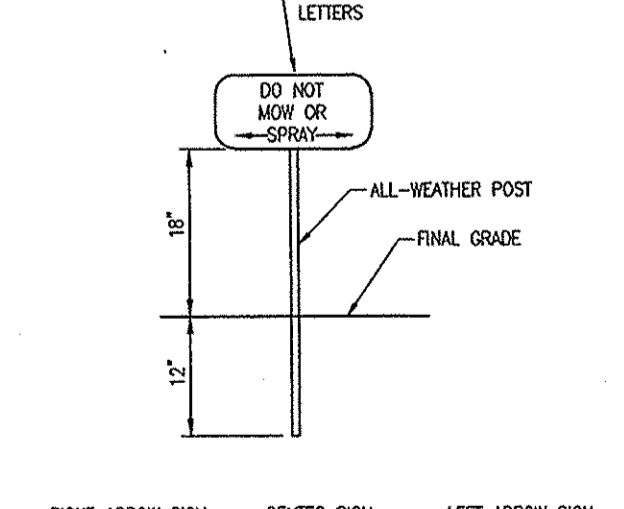
Table with 3 columns: BOTANICAL NAME, COMMON NAME, PLS. OZ./ACRE. Lists various plant species for economy prairie.

"ECONOMY PRAIRIE" SEED MIX PROVIDED BY CARDNO JF NEW



BRADY KUHN, L.S. 20500007

ASBUILT INFORMATION BUILT AS PLANNED



PROTECTION SIGNAGE DETAILS

NOTES: 1. SIGNS TO BE PLACED IN FRONT OF AREA TO BE PROTECTED. 2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT. 3. LETTERS ARE TO BE 2\"/>

RECORD DRAWING REVISED-FINAL CONSTRUCTION PLANS-DATED 4-18-2014

10505 N. College Avenue Indianapolis, Indiana 46280 weh@weh.com 317 846 - 6611 800 1 452 - 6408 317 843 - 0546 fax ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS Land Surveying | Civil Engineering Landscape Architecture

Table with 2 columns: DATE, BY. Lists revision dates and authors.

HIGHPOINT ON MERIDIAN J.C. HART COMPANY, INC. / SPECTRUM RETIREMENT COMMUNITIES STORM SEWER DETAIL SHEET SHEET NO. C612 PROJECT NO. W11-0381

SANITARY SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
900	MANHOLE	873.54	SOLID	INV IN = 859.08(S)
901	MANHOLE	871.79 872.57	SOLID	INV IN = 860.08(S) 859.93 INV IN = 860.08(E) 859.84 INV OUT = 859.95(N) 859.80
902	MANHOLE	868.79 868.86	SOLID	INV IN = 860.85(E) 860.61 INV IN = 860.76(N) 860.51
903	MANHOLE	865.95 866.07	SOLID	INV IN = 861.34(S) 861.29 INV OUT = 861.24(W) 861.19
904	MANHOLE	867.40 867.96	SOLID	INV IN = 862.16(W) 862.15 INV OUT = 862.06(N) 862.05
905	MANHOLE	866.28 865.94	SOLID	INV IN = 862.72(SW) 862.78 INV OUT = 862.62(E) 862.68
906	MANHOLE	867.40	SOLID	INV IN = 863.08(W) 863.03 INV OUT = 862.98(NE) 862.93
907	MANHOLE	870.06	SOLID	INV IN = 863.75(S) 863.70 INV OUT = 863.65(E) 863.60
908	MANHOLE	873.61	SOLID	INV IN = 864.16(W) 864.11 INV OUT = 864.06(N) 864.01
909	MANHOLE	876.90	SOLID	INV IN = 865.75(W) 865.70 INV OUT = 865.65(E) 865.60
910	MANHOLE	879.72	SOLID	INV IN = 867.65(W) 867.60 INV OUT = 867.55(E) 867.50
911	MANHOLE	879.52	SOLID	INV OUT = 868.70(E) 868.65
912	MANHOLE	868.54 868.50	SOLID	INV IN = 868.47(E) 860.24 INV OUT = 868.28(W) 860.34
913	MANHOLE	865.47 865.47	SOLID	INV OUT = 861.04(W) 860.99

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
200	CONCRETE END SECTION	N/A	N/A	INV IN = 852.93(W) 852.88
201	MANHOLE	866.14 866.37	SOLID	INV IN = 853.14(W) 853.14 INV IN = 853.20(N) 852.91 INV OUT = 853.04(E) 852.93
201A	48" DIAM. ROUND OUTLET CONTROL	856.32 856.25	CUSTOM GRATE	INV OUT = 853.50(S) 852.83
202	MANHOLE	865.65 866.74	SOLID	INV IN = 854.32(NW) 854.15 INV IN = 850.00(N) 858.75 INV OUT = 854.22(E) 854.15
203	MANHOLE	866.14 866.12	SOLID	INV IN = 854.54(W) 854.48 INV OUT = 854.71(SE) 854.48
204	MANHOLE	865.90 866.00	SOLID	INV IN = 854.94(W) 855.04 INV IN = 858.31(SW) 858.67 INV IN = 863.70(NW) 862.10
204A	24"x24" OUTLET CONTROL	865.98 866.36	NEENAH R-3405	INV IN = 864.16(NW) 863.98 INV OUT = 864.06(SE) 862.28
205	MANHOLE	865.49	SOLID	INV IN = 859.01(W) 859.01 INV OUT = 858.91(NE) 858.91
206	MANHOLE	869.77	SOLID	INV IN = 860.53(SW) 860.53 INV OUT = 860.43(E) 860.43
207	MANHOLE	871.72	SOLID	INV IN = 860.73(W) 860.73 INV OUT = 860.63(NE) 860.63
207A	MANHOLE	871.79	SOLID	INV IN = 861.02(W) 861.02 INV OUT = 860.92(E) 860.92 INV OUT = 866.36(S) 866.36
208	MANHOLE	876.36	SOLID	INV IN = 862.68(NW) 862.68 INV OUT = 862.58(E) 862.58
209	INLET TYPE A	872.85	BEEHIVE	INV IN = 863.84(W) 863.84 INV OUT = 862.86(SE) 862.86
210	INLET TYPE A	869.50	BEEHIVE	INV IN = 864.21(W) 864.21 INV OUT = 864.11(E) 864.11
211	INLET TYPE A	869.50	BEEHIVE	INV IN = 864.57(W) 864.57 INV OUT = 864.47(E) 864.47
212	INLET TYPE A	869.50	BEEHIVE	INV IN = 864.94(SW) 864.94 INV OUT = 864.84(E) 864.84
213	INLET TYPE A	869.50	BEEHIVE	INV IN = 865.29(S) 865.29 INV OUT = 865.19(NE) 865.19
214	INLET TYPE A	869.50	BEEHIVE	INV OUT = 865.50(N) 865.50
215	INLET TYPE 1	862.54 861.87	NEENAH R-1642	INV OUT = 866.00(SE) 859.89 INV OUT = 866.00(SE) 859.89
400	CONCRETE END SECTION	N/A	N/A	INV IN = 858.22(W) 854.59

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
401	MANHOLE	863.83 863.88	NEENAH R-1642	INV IN = 855.61(W) 855.13 INV OUT = 858.33(E) 855.13
403	MANHOLE	863.89 863.87	SOLID	INV IN = 855.27(S) 855.54 INV IN = 859.01(NW) 857.69 INV OUT = 858.62(E) 855.59
404	MANHOLE	864.30 864.07	NEENAH R-3286-BV	INV IN = 850.07(SW) 858.67 INV IN = 858.87(N) 858.72 INV OUT = 858.77(SE) 858.60
404A	INLET TYPE 1	864.98 865.58	BEEHIVE NEENAH R-3287-TUV	INV OUT = 859.15(S) 859.13
405	MANHOLE	865.52 865.50	BEEHIVE	INV IN = 850.81(S) 859.57 INV IN = 850.36(NE) 859.47
406	MANHOLE	865.27 865.40	BEEHIVE	INV IN = 860.24(E) 859.89 INV IN = 860.24(W) 859.99 INV OUT = 860.14(N) 859.89
407	INLET TYPE A	862.62 865.20	BEEHIVE	INV OUT = 860.50(W) 860.79
408	INLET TYPE A	862.42 862.04	BEEHIVE	INV OUT = 860.72(E) 860.60
409**	MANHOLE	865.79 865.35	NEENAH R-3286-BV	INV IN = 857.24(W) 856.91 INV OUT = 857.14(N) 856.81
410	MANHOLE	865.79 865.35	NEENAH R-3286-BV	INV IN = 859.03(W) 859.02 INV OUT = 858.93(E) 858.93
411	MANHOLE	865.81 865.35	NEENAH R-3286-BV	INV IN = 859.24(SW) 859.10 INV IN = 859.14(E) 859.07
412	MANHOLE	865.94 866.30	NEENAH R-3286-BV	INV IN = 860.18(NW) 859.69 INV IN = 861.00(W) 860.71 INV OUT = 860.00(NE) 859.69
413	MANHOLE	871.21 870.72	NEENAH R-3286-BV	INV IN = 862.10(N) 862.01 INV OUT = 862.00(E) 861.91
414	MANHOLE	872.09	NEENAH R-1642	INV IN = 865.50(N) 865.50 INV IN = 863.80(W) 863.80 INV OUT = 862.41(S) 862.41
414 (1)	12" NYLOPLAST DRAIN BASIN	871.00	OPEN GRATE	
415	MANHOLE	873.91	SOLID	INV IN = 864.70(N) 864.70 INV IN = 869.38(S) 869.38 INV OUT = 864.60(E) 864.60
415A	INLET TYPE A	873.32	BEEHIVE	INV OUT = 869.70(N) 869.70
416	MANHOLE	874.08	NEENAH R-3286-BV	INV IN = 865.01(W) 865.01 INV OUT = 864.91(S) 864.91
417	MANHOLE	874.44	NEENAH R-4342	INV IN = 865.80(S) 865.80 INV IN = 865.55(NW) 865.55 INV OUT = 865.45(E) 865.45
417A	MANHOLE	875.32	SOLID	INV IN = 866.02(N) 866.02 INV OUT = 865.92(SE) 865.92

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
426	CONCRETE END SECTION	N/A	N/A	INV IN = 869.00(S) 869.00
427	MANHOLE	875.50	NEENAH R-3286-BV	INV IN = 869.15(E) 869.15 INV IN = 872.17(SW) 872.17 INV OUT = 869.05(N) 869.05
428	MANHOLE	876.50	NEENAH R-3286-BV	INV IN = 869.96(E) 869.96 INV IN = 871.35(SE) 871.35 INV OUT = 869.45(W) 869.45
430	INLET TYPE A	874.80	NEENAH R-3286-BV	INV IN = 871.14(S) 871.14 INV OUT = 871.04(N) 871.04
431	INLET TYPE A	876.10	NEENAH R-3405	INV OUT = 872.38(NW) 872.38
432	MANHOLE	877.83	NEENAH R-4342	INV IN = 872.02(E) 872.02 INV OUT = 871.92(NW) 871.92
433	MANHOLE	876.30	NEENAH R-3286-BV	INV IN = 872.27(S) 872.27 INV OUT = 872.17(W) 872.17
434	MANHOLE	877.00	NEENAH R-4342	INV IN = 872.63(S) 872.63 INV IN = 873.71(W) 873.71 INV IN = 873.54(E) 873.54 INV OUT = 872.53(N) 872.53
480	MANHOLE	879.16	CUSTOM GRATE	INV IN = 877.00(S) 877.00 INV OUT = 875.48(N) 875.48
481	INLET TYPE J	878.38	NEENAH R-3405	INV OUT = 877.04(N) 877.04
482	INLET TYPE A	877.73	NEENAH R-3405	INV OUT = 874.10(E) 874.10
483	INLET TYPE A	877.72	NEENAH R-3405	INV OUT = 874.00(W) 874.00
489	MANHOLE	877.34	NEENAH R-4342	INV OUT = 873.41(NE) 873.41

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
442	CONCRETE END SECTION	N/A	N/A	INV IN = 869.00(S) 869.00
443	MANHOLE	880.13	SOLID	INV IN = 870.35(E) 870.35 INV OUT = 870.25(N) 870.25
444	MANHOLE	878.84	NEENAH R-3501-TR	INV IN = 871.96(S) 871.96 INV IN = 874.81(E) 874.81 INV OUT = 870.81(W) 870.81
445	MANHOLE	878.89	NEENAH R-3501-TR	INV IN = 875.07(S) 875.07 INV IN = 874.00(E) 874.00 INV OUT = 870.81(N) 870.81
446	INLET TYPE A	878.91	NEENAH R-3286-BV	INV OUT = 875.30(N) 875.30
447	INLET TYPE A	878.75	NEENAH R-3286-BV	INV OUT = 874.75(W) 874.75
448	INLET TYPE A	879.03	NEENAH R-3286-BV	INV IN = 875.50(W) 875.50 INV OUT = 875.40(W) 875.40
488	INLET TYPE A	880.20	NEENAH R-3405	INV OUT = 876.25(W) 876.25

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
435	CONCRETE END SECTION	N/A	N/A	INV IN = 869.00(S) 869.00
436	MANHOLE	877.52	NEENAH R-3286-BV	INV IN = 871.93(W) 871.93 INV IN = 871.93(SE) 871.93 INV OUT = 869.60(N) 869.60
437	MANHOLE	878.60	NEENAH R-3286-BV	INV IN = 874.00(W) 874.00 INV IN = 872.91(SE) 872.91 INV OUT = 872.81(NW) 872.81
438	MANHOLE	878.70	NEENAH R-1642 R-2501 GRATE	INV IN = 873.28(E) 873.28 INV OUT = 873.16(NW) 873.16
439	MANHOLE	879.19	NEENAH R-4342	INV IN = 873.74(S) 873.74 INV IN = 873.80(N) 873.80 INV IN = 874.74(E) 874.74 INV OUT = 873.64(W) 873.64
440	MANHOLE	880.60	CUSTOM GRATE	INV IN = 878.50(S) 878.50 INV OUT = 876.23(N) 876.23
441	INLET TYPE J	879.89	BEEHIVE	INV OUT = 878.55(N) 878.55
484	INLET TYPE A	878.87	NEENAH R-3405	INV OUT = 875.19(W) 875.19
485	INLET TYPE A	877.69	NEENAH R-3286-BV	INV OUT = 874.10(S) 874.10
486	INLET TYPE A	878.85	NEENAH R-3286-BV	INV OUT = 874.85(E) 874.85
487	INLET TYPE A	878.68	NEENAH R-3286-BV	INV OUT = 872.07(E) 872.07

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: Aug 12 15  
Entered by: GLM

\*\* = DOUBLE STRUCTURE REQUIRED

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
200	201	24"	RCP	35'	0.31%
201	201A	12"	HDPE	87'	0.35%
201	202	24"	RCP	361'	0.30%
202	215	12"	RCP	56'	1.77%
202	203	24"	RCP	130'	0.30%
203	491	24"	RCP	19'	0.38%
204	204A	15"	RCP	12'	3.00%
204	205	24"	HDPE	18'	2.21%
204A		15"	RCP	52'	0.23%
205	206	24"	HDPE	187'	0.76%
206	207	24"	HDPE	20'	0.51%
207A	207	24"	HDPE	37'	0.51%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
207A	208	24"	HDPE	314'	0.50%
208	209	24"	HDPE	36'	0.50%
209	210	12"	HDPE	273'	0.10%
210	211	12"	HDPE	265'	0.10%
211	212	12"	HDPE	265'	0.10%
212	213	12"	HDPE	246'	0.10%
213	214	12"	HDPE	211'	0.10%
400	401	30"	HDPE	62'	0.50%
401	490	30"	HDPE	13'	0.62%
403	404	24"	HDPE	136'	0.50%
403	409	27"	HDPE	245'	0.50%
404	405	15"	HDPE	108'	0.50%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
426	427	27"	HDPE	15'	0.33%
427	489	12"	HDPE	104'	1.19%
427	428	27"	HDPE	98'	0.31%
428	432	18"	HDPE	102'	0.56%
428	429	15"	HDPE	252'	0.27%
429	430	12"	HDPE	101'	0.30%
430	431	12"	HDPE	50'	2.50%
432	433	18"	HDPE	40'	0.37%
433	434	15"	HDPE	52'	0.50%
434	483	12"	HDPE	92'	0.50%
434	482	12"	HDPE	77'	0.50%
434	480	12"	HDPE	124'	2.30%
480	481	12"	HDPE	9'	0.46%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
442	443	15"	HDPE	130'	0.96%
443	444	15"	HDPE	91'	0.50%
444	448	12"	HDPE	59'	0.99%
444	445	15"	HDPE	70'	1.50%
445	447	12"	HDPE	74'	1.02%
445	446	12"	HDPE	45'	0.50%
448	488	12"	HDPE	75'	1.00%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
449	450	18"	HDPE	22'	0.93%
451	452	18"	HDPE	20'	1.00%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
491	204	24"	RCP	189'	-0.17%

STORM SEWER PIPE DATA TABLE					
STRUCTURE	STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
415	415A	12"	HDPE	64'	0.50%
415	416	18"	HDPE	37'	0.57%
416	417	18"	HDPE	89'	0.50%
417	417A	15"	HDPE	74'	0.50%
417	418	15"	HDPE	130'	2.00%
417A	207A	15"	HDPE	68'	0.50%
418	419	12"	HDPE	33'	2.00%
419	420	12"	HDPE	9'	0.53%
422	423	15"	HDPE	50'	0.50%
423	424	12"	HDPE	1	