

Phone (317) 776-8495 Fax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

January 3, 2006

To: Hamilton County Drainage Board

Re: Crooked Creek Drain, Mayflower Arm – West Carmel Marketplace Relocation

Attached is a petition and plans for the proposed relocation of the Mayflower Arm of the Crooked Creek Drain. The relocation is being proposed by Duke Construction, L.P. The proposal is to reconstruct the Mayflower Arm, Crooked Creek Drain from a point 27 feet downstream of Str. 6 of the Mayflower Arm and relocate the drain along future 99th Street to Crooked Creek.

The relocated drain shall consist of those lengths of pipes between the following structures as shown on the plans by Woolpert, dated October 20, 2004, and having job number 61287.03: Starting approximately 27 feet downstream of existing Structure 6 is the location for Str. 94, then the drain continues to Str. 93, 8, 7, 6, 5, 4, 97, 3, 2, 1, 85, and 84. Structure 84 is an end section that outlets into Lake B, the drain then continues as 150 feet of open ditch through Lake B to Str. 74 and 73. Structure 73 is an end section that discharges into the Crooked Creek Drain at the approximate location the Mayflower Drain currently discharges.

Also, additional new drain shall be those lengths of pipes between the following structures: 94 to 9, 94 to 10, 7 to 46, 46 to 47, 6 to 42, 42 to 43, 43 to 44, 44 to 45, 45 to 41, 5 to 23, 23 to 24, 24 to 25, 25 to 31, 4 to 20, 20 to 21, 3 to 18, and 18 to 88. Also to be included is Structure 77 to 89, 89 to 86, 86 to 78, 79 to 90, 90 to 80, 81 to 82, and 82 to 83.

The drain in total will consist of the following lengths:

12" RCP – 279 ft	15" RCP – 95 ft	24" RCP – 454 ft
30" RCP – 154 ft	36" RCP – 258 ft	42" RCP – 331 ft
48" RCP – 714 ft	54" RCP – 657 ft	Open Ditch – 150 ft

As part of this reconstruction, Structure 105 of the Crooked Creek Drain, Commerce Drive Extension Arm and the 27 feet of pipe to Str. 106 will be removed.

The total length of new tile shall be 3092 feet. The 1,748 feet of the original Mayflower Arm between 27 feet downstream of Str. 6 and Str. 9A and 135 of open drain between Str. 9A and Crooked Creek, per the original 1974 construction plans, and 27 feet

between Str. 105 and Str. 106 of the Commerce Drive Extension Arm, per my report to the Board dated June 23, 2003 (DB 7 pgs 123-124), shall be vacated. This proposal will add an additional 1344 feet to the Mayflower Arm and remove 27 feet from the Commerce Drive Extension Arm, for a total addition of 1317 feet to the Crooked Creek Drain.

The retention ponds (Ponds B, C, D, and E) located in Common Areas Block D and E are to be considered part of the regulated drain. Pond maintenance shall include the inlets, outlets, sediment removal, and erosion control along the banks as part of the regulated drain. The maintenance of the ponds, such as mowing and aquatic vegetation control will be the responsibility of the association or property owner. The Board will also retain jurisdiction for ensuring the storage volume which the ponds were designed will be retained, thereby, allowing no fill or easement encroachments.

Retention pond A and the storm sewer from Str. 75 to 87 and 87 to 76 shall remain private and will be the maintenance responsibility of the association or property owner per the agreement with the Board and Duke, D.B. 8, pages 176-177, 183-184, and 217.

The cost of the relocation is to be paid by Duke Construction, L.P. Because the project is to be paid by the petitioner and is within the boundaries of the petitioner's property, the project falls under the requirements as set out in IC 36-9-27-52.5. Therefore, a hearing is not required for the petition.

For the relocated drain located within the boundaries of West Carmel Marketplace, I recommend 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 West Carmel Marketplace as recorded in the office of the Hamilton County Recorder.

The petitioner has provided the Performance Bond as follows:

Name of Bonding Company: Western Surety Company Bond Number: 929352993 Bond Date: December 13, 2004 Bond Amount: \$323,961.00

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 approval by the Board at this time.

Sincerely,

Kenton C. Ward Hamilton County Surveyor

KCW/grh

Revised June 1997

HAMILTON COUNTY DRAINAGE BOARD NOBLESVILLE, INDIANA

IN RE: ______) Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

DUKE CONSTRUCTION, L.P. (hereinafter Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a

section of the <u>MAYFLOWER PARK ARM OF THE</u> Drain, and in support of CROOKED CREEK REGULATED said petition advises the Board that:

 Petitioner owns real estate through which a portion of the <u>MAYFLOWER PARK ARM</u> OF THE CROOKED CREEK REGULATED 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 <u>MAYFLOWER PARK ARM OF THE</u> Drain, as CROOKED CREEK REGULATED 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 <u>MAYFLOWER PARK ARM OF</u> Drain, without cost to other property owners THE CROOKED CREEK REGULATED on the watershed of the 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 <u>MAYFLOWER PARK ARM OF</u> THE CROOKED CREEK REGULATED Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

nthis J. Schembre

Printed





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

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

To: Hamilton County Drainage Board

February 3, 2009

Re: Crooked Creek Drain: Mayflower Arm- West Carmel Marketplace Relocation

Attached are as-builts, certificate of completion & compliance, and other information for West Carmel Marketplace Relocation of the Mayflower Arm. 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 January 3, 2006. The report was approved by the Board at the hearing held February 27, 2006. (See Drainage Board Minutes Book 9, Pages 84-85) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:
94-8	59	36	RCP	878.31	879.2	1.51
8-7	195	36	RCP	878.84	877.02	0.93
7-6	95	42	RCP	877.02	876.77	0.26
6-5	328	48	RCP	876.77	876.38	0.12
5-4	265	48	RCP	876.38	876.24	0.05
4-97	86	48	RCP	875.84	875.72	0.14
97-3	31	48	RCP	875.61	875.77	0.51
3-2	159	54	RCP	875.45	875.38	0.04
2-1	192	54	RCP	875.4	875.04	0.19
1-85	192	54	RCP	874.93	874.18	0.39
85-84	114	54	RCP	874.13	874.19	-0.05
74-73	66	24	RCP	873.89	873.61	0.42
10-94	66	12	RCP	883.29	883.65	0.45
9-94	24	12	RCP	883.65	883.08	2.6
47-46	44	12	RCP	885	884.8	0.45
45-44	36	12	RCP	884.76	884.1	1.8
44-43	42	15	RCP	884.1	883.76	0.79
43-42	44	15	RCP	883.76	883.35	0.95
41-45	20	12	RCP	885	884.76	1.2
6-42	9	15	RCP	883.35	882.58	1.11

RCP Pipe T	otals:		Other Drain			
7-46	9	12	RCP	884.8	884.72	
82-83	79	42	RCP	873.96	873.98	-0.02
81-82	140	42	RCP	874.01	873.96	-0.07
90-79	115	24	RCP	874.07	874.12	-0.04
80-90	41	24	RCP	874.25	874.07	0.44
77-89	86	24	RCP	874.19	874.14	0.06
89-86	55	24	RCP	874.12	874.2	-0.15
86-78	59	24	RCP	874.14	874.12	0.14
88-18	53	30	RCP	876.28	876.03	0.47
18-3	9	30	RCP	876.03	875.57	0.5
20-4	9	12	RCP	881.5		1.9
21-20	46	12	RCP	881.96	881.5	1
23-5	9	30	RCP	877.75	876.38	0.53
24-23	44	30	RCP	877.98	877.75	0.52
25-24	39	30	RCP	878.94	877.98	0.53
31-25	32	12	RCP	884.5	884.36	0.45

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	12	286
	15	95
	24	422
	30	154
	36	254
	42	314
	48	710
	54	657
Total:		2892

Other Drain:	
150-OPEN	
DITCH	

The length of the drain due to the changes described above is now **3042 feet**. The project removed 1804 feet of the existing Mayflower Arm and 124 feet of the Commerce Drive Arm. The non-enforcement was approved by the Board at its meeting on February 27, 2006 and recorded under instrument #200677172.

The following sureties were guaranteed by Western Surety Company expired on December 13, 2006.

Bond-LC No: 929352993 Insured For: Storm Sewers Amount: \$323,961.00 Issue Date: December 13, 2004

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

Sincerely

Kenton C. Ward, CFM Hamilton County Surveyor

PHASE 1

DOCKET NOS. 04050029-30V, 04050033-36V, 04070008-10V, 04050028DP/ADLS 9901 NORTH MICHIGAN ROAD CARMEL, INDIANA OCTOBER 20, 2004

OWNER:



600 East 96th Street, Suite 100, Indianapolis, IN 46240 317.808.6000

CONTRACTOR: Duke Construction Limited Partnership

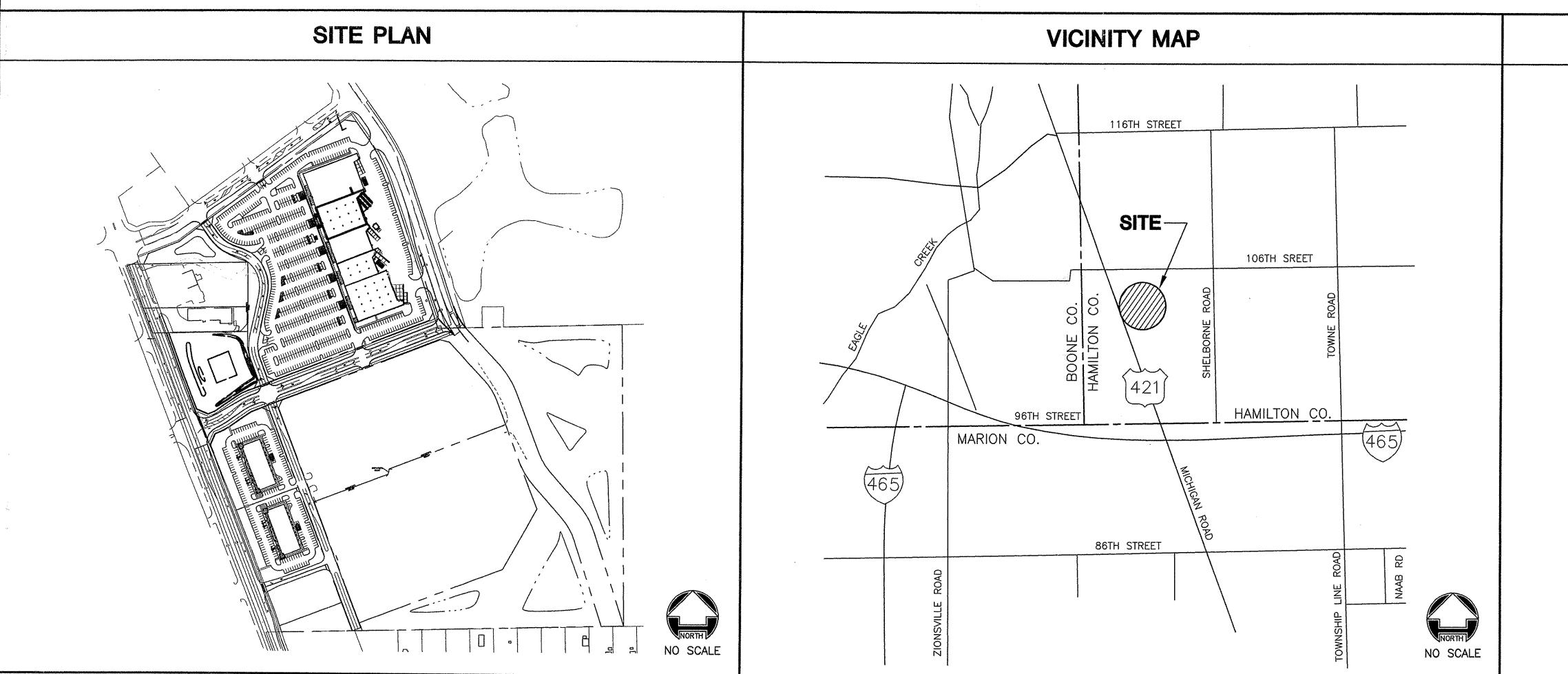
600 East 96th Street, Suite 100, Indianapolis, IN 46240 317.808.6000



7140 Waldemar Drive ndianapolis. Indiana
 WOOLPERT
 317.299.7500

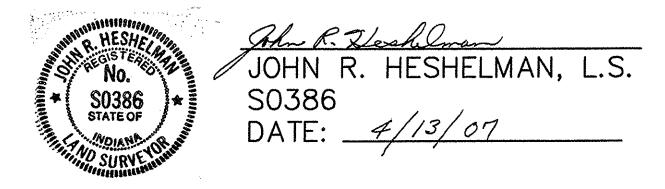
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 317.291.5805

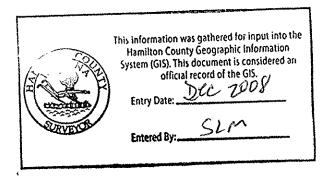
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WEST CARMEL MARKETPLACE

I HEREBY CERTIFY THAT THESE DRAWINGS DEPICT AS-BUILT FIELD DATA AND WERE PREPARED BY WOOLPERT, INC.

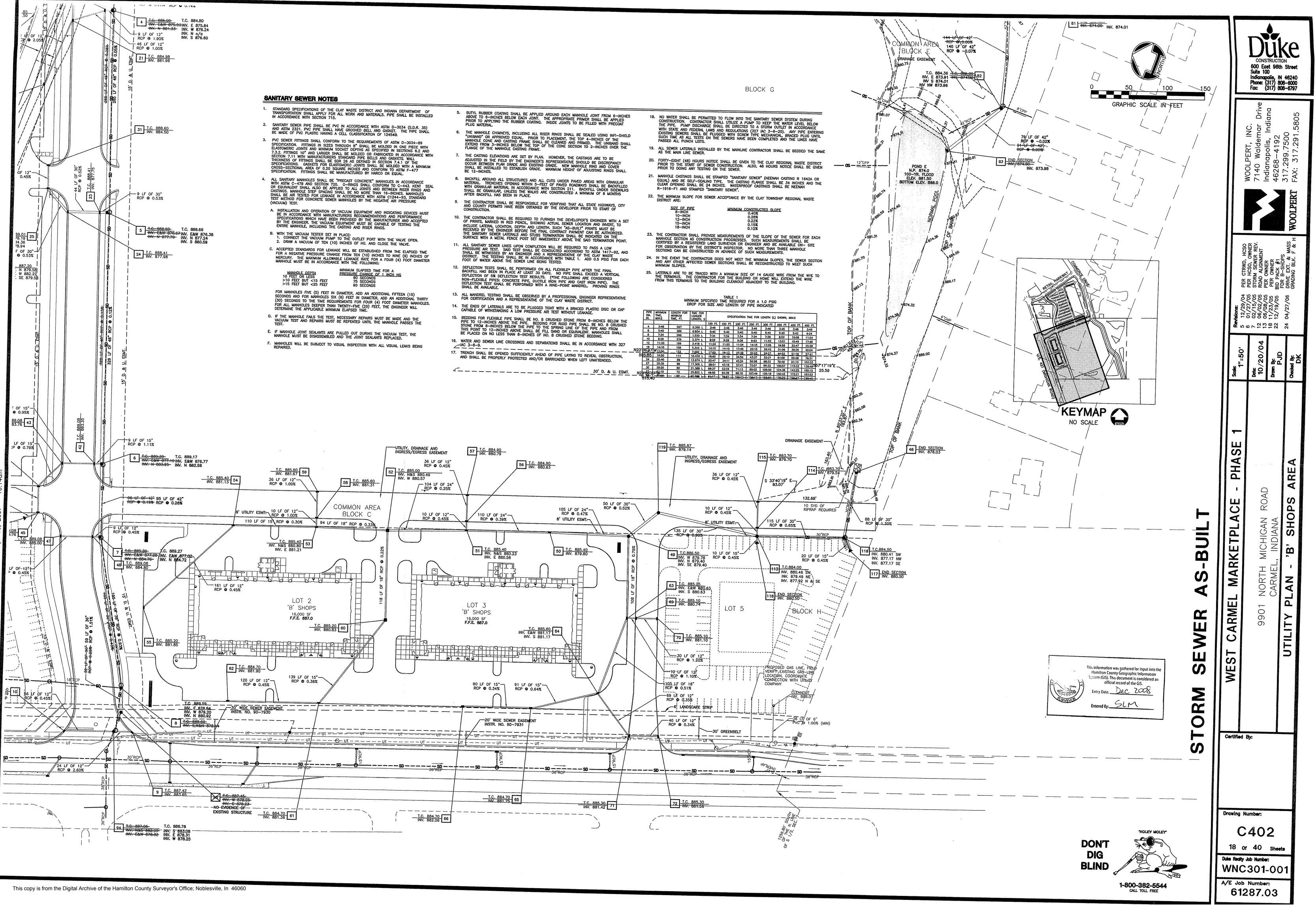


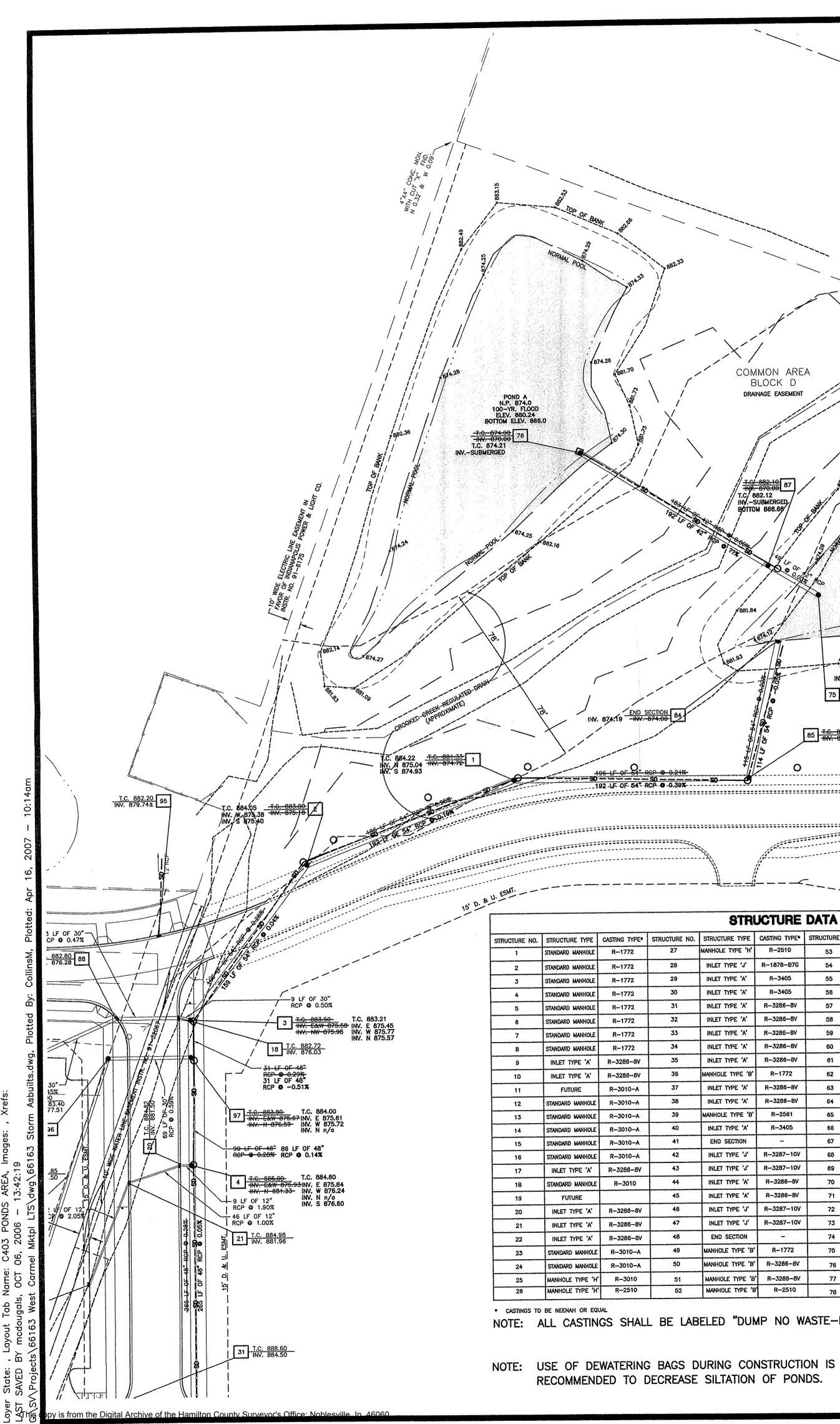


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O 25 05/09/06	-0200					
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0 24 04/27/08	-0203					
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0 24 04/27/08	-0302			F & H		
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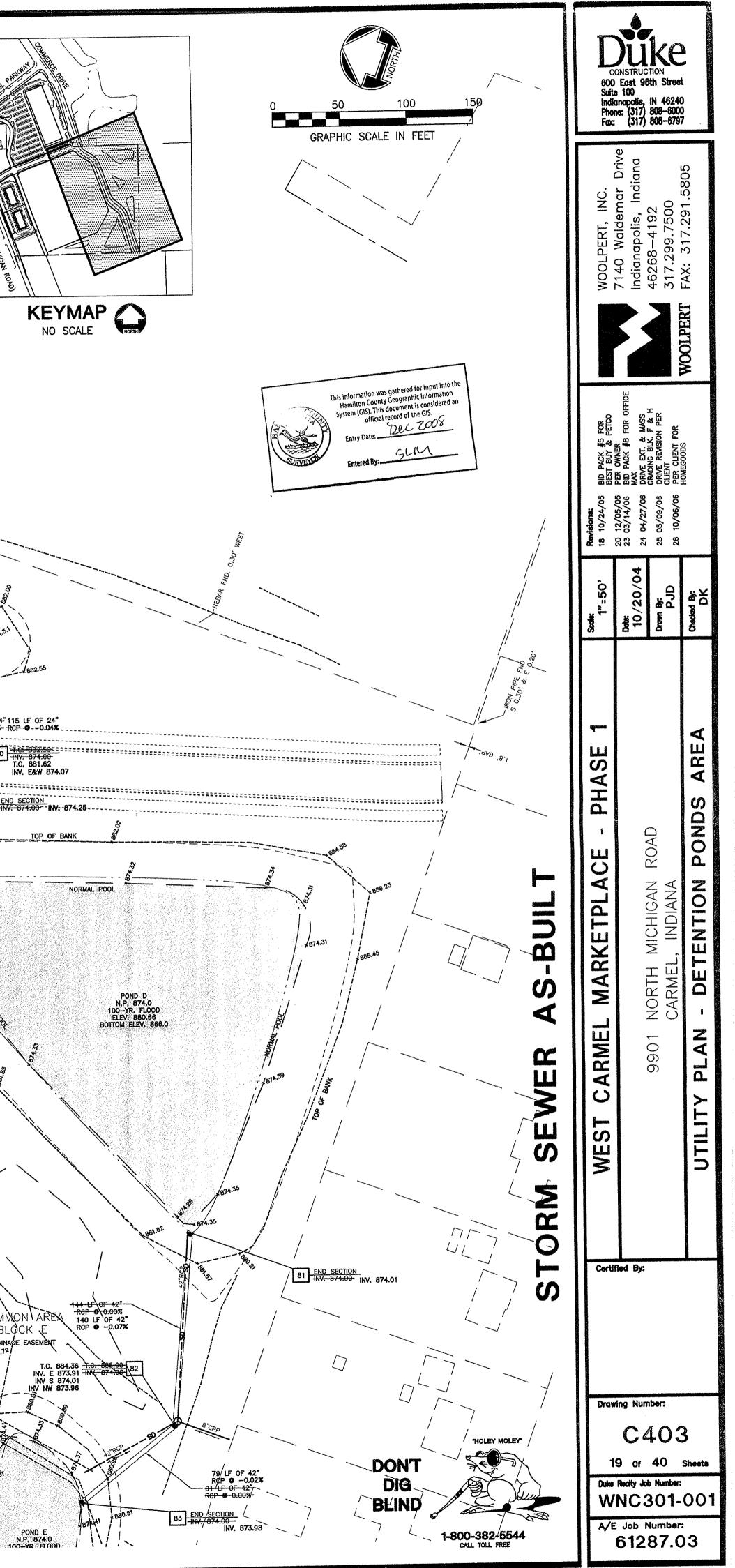


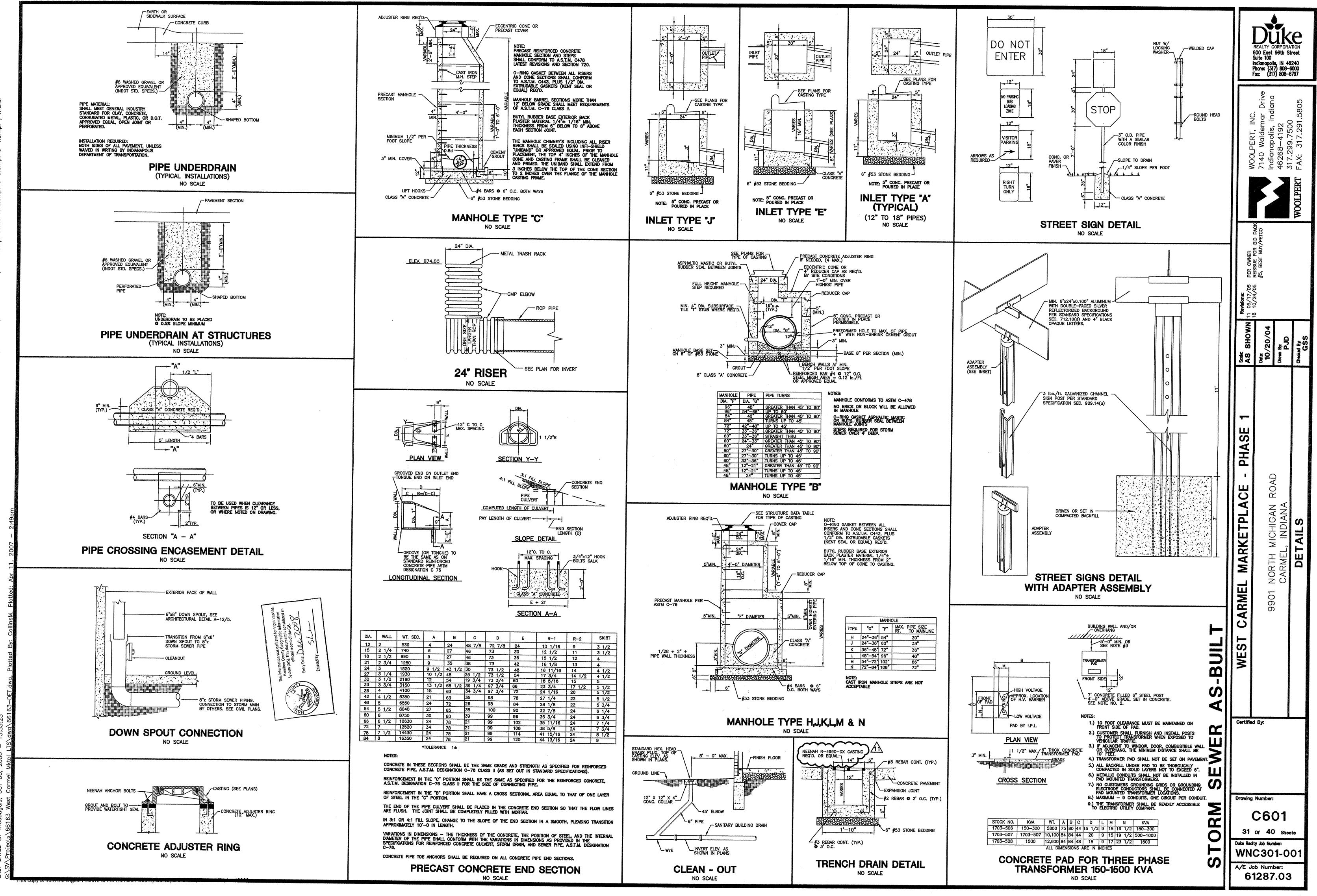


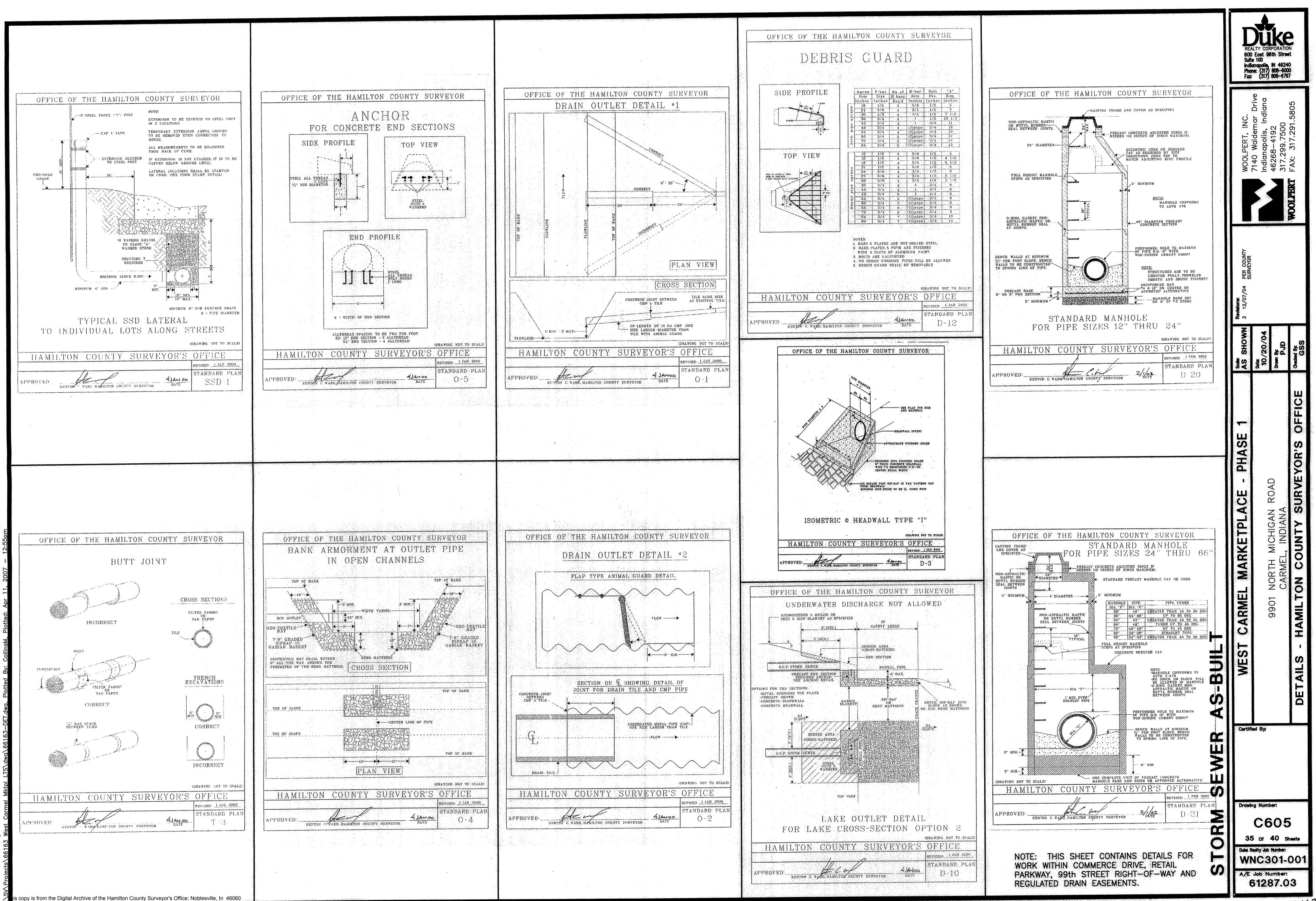
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INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' MANHOLE TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' END SECTION INLET TYPE 'J' INLET TYPE 'J' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'J' INLET TYPE 'J'	R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-1772 R-3286-8V R-3286-8V R-2561 R-3405 	58 59 60 61 62 63 63 64 65 66 67 68 68 69 70 71 72 73	INLET TYPE 'A' INLET TYPE 'A'	R-3286-8V R-3286-8V R-1878-87G R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V	85 86 87 88 89 90 93 93 94 95 95 96 97 100 101 102 103	STANDARD MANHOLE STANDARD MANHOLE	R-1772 R-1772 R-1772 R-3010 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772	109 110 111 112 113 114 115 116 117 118	INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE STANDARD MANHOLE STANDARD MANHOLE INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE END SECTION END SECTION	R-3405 R-3405 R-1772 R-1772 R-1772 R-3286-8V R-3286-8V R-1772 -		N.	
INLET TYPE 'A' INLET TYPE 'J' INLET TYPE 'J' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A'	R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-1772 R-3286-8V R-3286-8V R-2561 R-3405 	58 59 60 61 62 63 64 65 68 67 68 69 70 71 72 73 74 75	INLET TYPE 'A' INLET TYPE 'A'	R-3286-8V R-3286-8V R-1878-B7G R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V	85 86 87 88 89 90 93 93 94 95 96 97 100 101 102	STANDARD MANHOLE STANDARD MANHOLE	R-1772 R-1772 R-1772 R-3010 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772	109 110 111 112 113 114 115 116 117 118 119 120	INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE STANDARD MANHOLE STANDARD MANHOLE INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE END SECTION END SECTION STANDARD MANHOLE INLET TYPE 'A'	R-3405 R-3405 R-1772 R-1772 R-1772 R-3286-8V R-3286-8V R-3286-8V R-1772 - R-1772 R-3405 R-1772			COMMOI BLOC PRAINAGE HERO.72
INLET TYPE 'A' INLET TYPE 'J' INLET TYPE 'J' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'B'	R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-1772 R-3286-8V R-3286-8V R-2561 R-3405 R-3287-10V R-3287-10V R-3286-8V R-3286-8V R-3287-10V R-3286-8V R-3287-10V R-3286-8V R-3286-8V	58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	INLET TYPE 'A' INLET TYPE 'A'	R-3286-8V R-3286-8V R-1878-B7G R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-3286-8V	85 86 87 88 89 90 93 93 94 95 96 97 100 101 102 103 104 105	STANDARD MANHOLE STANDARD MANHOLE	R-1772 R-1772 R-1772 R-3010 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772 R-1772	109 110 111 112 113 114 115 116 117 118 119 120	INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE STANDARD MANHOLE STANDARD MANHOLE INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE INLET TYPE 'A' STANDARD MANHOLE INLET TYPE 'A' STANDARD MANHOLE	R-3405 R-3405 R-1772 R-1772 R-1772 R-3286-8V R-3286-8V R-3286-8V R-1772 - R-1772 R-3405 R-1772		N.	COMMOI BLOC PRAINAGE HERO.72
INLET TYPE 'A' INLET TYPE 'J' INLET TYPE 'J' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'A' INLET TYPE 'B' MANHOLE TYPE 'B' MANHOLE TYPE 'B'	R-3286-8V R-3286-8V R-3286-8V R-3286-8V R-1772 R-3286-8V R-3286-8V R-3286-8V R-3287-10V R-3287-10V R-3286-8V R-3287-10V R-3287-10V R-3286-8V R-3287-10V R-3286-8V R-3287-10V R-3287-10V	58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	INLET TYPE 'A' INLET TYPE 'A'	R-3286-8V R-3286-8V	85 86 87 88 89 90 93 94 95 96 97 100 101 102 103 104 105 106 107 108	STANDARD MANHOLE STANDARD MANHOLE	R-1772 R-1772 R-1772 R-3010 R-1772	109 110 111 112 113 114 115 116 117 118 119 120	INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE STANDARD MANHOLE STANDARD MANHOLE INLET TYPE 'A' INLET TYPE 'A' STANDARD MANHOLE INLET TYPE 'A' STANDARD MANHOLE INLET TYPE 'A' STANDARD MANHOLE	R-3405 R-3405 R-1772 R-1772 R-1772 R-3286-8V R-3286-8V R-3286-8V R-1772 - R-1772 R-3405 R-1772		- 05	COMINOI BLOC PRAINAGE H880.72 ABB0.72

NOTE: ALL MANHOLES THAT ARE PART OF THE REGULATED DRAIN SYSTEM SHALL BE SIZED PER HCSO STANDARD DETAILS D-18, D-20 AND D-21.

----- dS -- 12"CPP







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