

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

December 29, 2005

To: Hamilton County Drainage Board

Re: Bellewood Drain, Glen Oaks Arm

Attached is a petition filed by Langston Development Company along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Glen Oaks Arm, Bellewood 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	8,422 ft.	18" RCP	1,519 ft.	30" RCP	71 ft.
12" RCP	1,600 ft.	21" RCP	509 ft.	27"x 42" RCP	40 ft.
15" RCP	1,546 ft.	24" RCP	316 ft.	Open Ditch	5 ft.

The total length of the drain will be 14,028 feet.

The open ditch listed above is the open ditch between Structures 700 and 769.

The retention ponds located in Common Areas B & F and dry detention basin located in Common Area A are to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The maintenance of the ponds and dry detention basin, such as mowing and aquatic vegetation control, will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond and dry detention basin were designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs. Only the main SSD lines, which are located within the 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, is the SSD in the dry detention basin within Common Area A. The SSD drains into Structure 701.

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 \$50.00 per platted lot, \$10.00 per acre for roadways, and \$10.00 per acre for Common Areas, with a \$50.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,038.40.

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: April 15, 2005
Number: 5016096
For: Storm Sewers
Amount: \$308,524.00

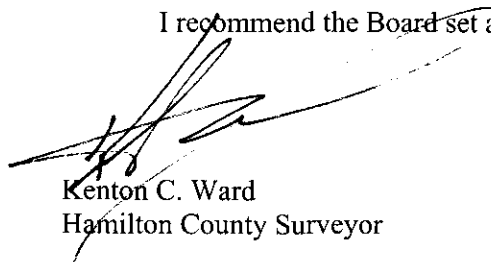
Agent: Bond Safeguard Insurance Company
Date: April 15, 2005
Number: 5016097
For: Erosion Control
Amount: 39,300.00

Parcels assessed for this drain may be assessed for the Little Eagle Creek Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Glen Oaks as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for June 26, 2006.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of _____ Glen Oaks _____ Subdivision, Section
_____ Glen Oaks _____ 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 _____ Glen Oaks _____, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

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

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED



Signed

James R. Langston

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

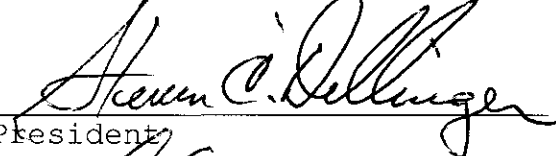
Date

FINDINGS AND ORDER
CONCERNING THE MAINTENANCE OF THE
Bellewood Drain, Glen Oaks Arm

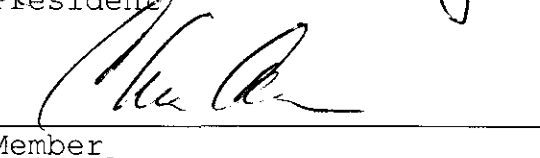
On this **26th day of June 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Bellewood Drain, Glen Oaks Arm**.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

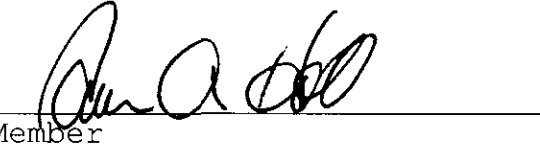
HAMILTON COUNTY DRAINAGE BOARD



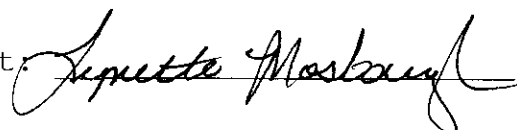
President



Member



Member

Attest: 

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Bellewood Drain, Glen Oaks Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Bellewood Drain, Glen Oaks Arm** on **June 26, 2006** at **9:20 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Bellewood Drain, Glen Oaks Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **January 23, 2006** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **Glen Oaks Subdivision**

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 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.

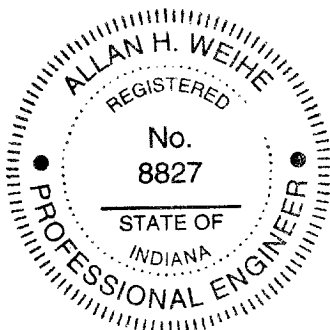
Signature: *Allan H. Weihe* Date: **2-2-06**

Type or Print Name: **Allan H. Weihe**

Business Address: **10505 N. College Ave.**
Indianapolis, IN 46280

Telephone Number: **317-846-6611**

SEAL



INDIANA REGISTRATION NUMBER

#8827



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CEM
 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 2, 2007

Re: Bellewood Drain: Glen Oaks

Attached are as-builts, certificate of completion & compliance, and other information for Glen Oaks. 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 December 28, 2005. The report was approved by the Board at the hearing held June 26, 2006. (See Drainage Board Minutes Book 9, Pages 279-280)
 The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
765-764	40	12	RCP	894.22	893.97	0.63	
763-762	128	12	RCP	899.78	895.54	3.31	
762-761	76	12	RCP	895.54	895.15	0.51	
761-760	24	12	RCP	895.15	895.13	0.08	
760-759	26	18	RCP	895.13	894.95	0.5	
759-758	210	18	RCP	894.95	893.99	0.46	
753-752	204	15	RCP	904.51	907.56	0.59	
757-756	17	12	RCP	899.14	899.01	0.76	
756-755	26	12	RCP	899.01	898.92	0.35	
755-751	207	15	RCP	898.92	897.99	0.45	
711-710	59	12	RCP	893.79	892.86	1.58	
710-709	207	18	RCP	892.86	891.21	0.72	
709-708	218	18	RCP	891.21	888.12	1.42	
708-707	82	18	RCP	888.12	885	3.8	
707-701	108	18	RCP	885	884.22	0.72	
706-701	36	18	RCP	884.22	883.93	0.5	
720-719	143	12	RCP	897.02	896	0.72	
719-718	112	15	RCP	896	895.43	0.51	
718-717	22	24	RCP	903.23	902.55	0.36	
717-716	44	24	RCP	895.35	895.09	0.59	
716-715	118	24	RCP	902.54	898.05	0.54	
715-714	132	24	RCP	894.45	894.04	0.31	

713-705	104	12	RCP	892.68	889.82	2.75
705-704	122	15	RCP	889.82	887.15	2.19
704-703	107	15	RCP	887.15	886.59	0.52
703-712	89	15	RCP	886.59	885.87	0.8
702-701A	12	12	RCP	884.85	884.38	3.92
701A-701	34	30	RCP	883.93	883.72	0.88
701-700	24	30	RCP	883.93	883.72	0.88
728-726	29	12	RCP	900.47	900.25	0.76
726-725	26	12	RCP	900.25	900.22	0.12
727-726	60	12	RCP	901.07	900.25	1.37
725-718	184	12	RCP	900.22	895.43	2.6
724-721	55	15	RCP	896.71	896.52	0.35
723-722	66	12	RCP	887.07	896.74	0.5
722-721	38	15	RCP	896.74	896.52	0.58
721-718	204	21	RCP	895.43	896.52	0.53
730-729	254	12	RCP	899.24	893.46	2.28
734-733	144	15	RCP	895.49	895.06	0.3
733-732	26	15	RCP	895.06	894.99	0.27
732-731	137	18	RCP	894.99	893.52	1.07
752-751	204	15	RCP	902.11	900.91	0.59
750-749	45	15	RCP	897.58	897.52	0.13
749-748	132	18	RCP	897.52	896.53	0.75
748-747	224	18	RCP	896.53	894.11	1.08
746-745	90	21	RCP	894.44	893.95	0.54
745-744	207	21	RCP	893.95	893.41	0.26
765A-766	93	15	RCP	890.04	886.97	3.89
766-766A	9	15	RCP	886.97	886.88	1
766A-767	37	30	RCP	886.88	886.46	1.13
743-742	24	12	RCP	898.02	897.02	4.17
742-741	28	12	RCP	897.02	895.91	3.96
741A-741	15	12	RCP	896.12	895.91	1.4
741-740	85	12	RCP	895.91	895.44	0.55
740-739	91	12	RCP	895.44	894.99	0.49
739-738	45	12	RCP	894.99	894.04	2.11
738-736	24	15	RCP	894.04	893.9	0.58
736-735	95	18	RCP	893.9	893.49	0.43
737-736	54	15	RCP	893.9	894.05	0.43
751-750	61	15	RCP	897.99	897.58	0.67
700-769A	40	42" x 27"	RCP	883.61	883.59	0.05

6" SSD Streets:

Dolan Way	1250.5
Glen Oaks Ct	394
Winter King Ct	423
Box Elder Ct	514
West Letts Ln	670
East Letts Ln	738
x2	

Total: 7979

RCP Pipe Totals:

12	1618
15	1594
18	1536
21	501
24	316
27" x 42"	40
30	95

Total: 5700

Other Drain:	
Open	5
Total:	<u>5</u>

The length of the drain due to the changes described above is now **13684 feet**.

The non-enforcement was approved by the Board at its meeting on June 26, 2006 and recorded under instrument #200600039883.

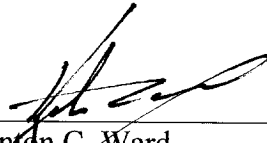
The following sureties were guaranteed by Bond Safeguard Insurance Company and released by the Board on its April 24, 2006 and October 9, 2006 meetings.

Bond-LC No: 5016096
Insured For: Storm Sewers
Amount: \$308,524.00
Issue Date: April 15, 2005

Bond-LC No: 5016097
Insured For: Erosion Control
Amount: \$39,300.00
Issue Date: April 15, 2005

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

Sincerely,

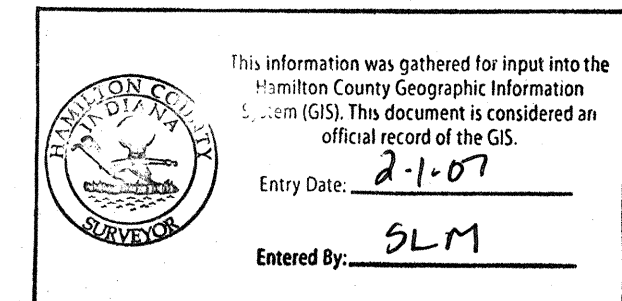


Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

GLEN OAKS SUBDIVISION

13421 WEST ROAD WESTFIELD, INDIANA 46074



SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS & DEMOLITION PLAN
3-4	SITE DEVELOPMENT PLAN
5-7	STREET PLAN & PROFILE SHEETS
8	INTERSECTION & CUL-DE-SAC DETAILS
9	ENTRANCE PLAN
10	TRAFFIC CONTROL PLAN
11-16A	STORM SEWER PLAN & PROFILE SHEETS
17-18	OFFSITE SANITARY SEWER PLAN & PROFILE SHEETS
19-22	SANITARY SEWER PLAN & PROFILE SHEETS
23-25	EROSION CONTROL PLAN & DETAILS
26-27	SITE LANDSCAPE PLAN
28	CONSTRUCTION DETAILS
29	WATER MAIN PLAN

TYPICAL SANITARY SEWER SPECIFICATIONS TO BE USED FOR PRIVATE SEWER DEVELOPMENT WITH CLAY TOWNSHIP REGIONAL WASTE DISTRICT

REVISED MAY 2002

1. Standard specifications of the District and Indiana Department of Transportation shall apply for all work and materials. Pipe shall be installed in accordance with Section 715.

2. Sanitary sewer pipe shall be PVC in accordance with ASTM D-3034 (S.D.R. 35) and ASTM 2321. PVC pipe shall have grooved bell and gasket. The pipe shall be made of PVC plastic having a cell classification of 12454B.

3. PVC sewer fittings shall conform to the requirements of ASTM D-3034-89 specification. Fittings in sizes through 8" shall be molded in one piece with elastomeric joints and minimum socket depths as specified in sections 6.2 and 7.3.2. Fittings 10" and larger shall be molded or fabricated in accordance with section 7.11 with manufacturer's standard pipe bells and gaskets. Wall thickness of fittings shall be SDR 26 as defined in section 7.4.1 of specifications. Gaskets for elastomeric joints shall be molded with a minimum cross-sectional area of 0.20 square inches and conform to ASTM 477 specification. Fittings shall be manufactured by Harco or equal.

4. All sanitary manholes shall be precast concrete manholes in accordance with ASTM C-478 and Section 720. O-rings shall conform to C-443. Kent Seal or equivalent shall also be applied to all joints and between riser rings and castings. Manhole step spooling shall be no more than 16-inches. Manholes shall be air tested for leakage in accordance with ASTM C1244-93, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.

A. Installation and operation of vacuum equipment and indicating devices must be in accordance with manufacturer's recommendations and performance specifications which have been provided by the manufacturer and accepted by the Engineer. The vacuum equipment must be capable of testing the entire manhole, including the casting and riser rings.

B. With the vacuum tester set in place:

1. Connect the vacuum pump to the outlet port with the valve open.
2. Draw a vacuum of ten (10) inches of Hg. and close the valve.
3. Accepted standards for leakage will be established from the elapsed time for a negative pressure change from ten (10) inches to nine (9) inches of mercury. The maximum allowable leakage rate for a four (4) foot diameter manhole must be in accordance with the following:

Minimum Elapsed Time for a Manhole Depth Pressure Change of 1 Inch Hg

10 feet or less	60 seconds
>10 feet but <15 feet	75 seconds
>15 feet but <20 feet	90 seconds

For manholes five (5) feet in diameter, add an additional fifteen (15) seconds and for manholes six (6) feet in diameter, add an additional thirty (30) seconds to the time requirements for four (4) foot diameter manholes. For all manholes deeper than twenty-five (25) feet, the Engineer will determine the applicable minimum elapsed time.

D. If the manhole fails the test, necessary repairs must be made and the vacuum test and repairs must be repeated until the manhole passes the test.

E. If manhole joint sediments are pulled out during the vacuum test, the manhole must be disassembled and the joint sealants replaced.

F. Manholes will be subject to visual inspection with all visual leaks being repaired.

5. Butyl rubber coating shall be applied around each manhole joint from 6-inches above to 6-inches below each joint. The appropriate primer shall be applied prior to applying the rubber coating. Inside joints to be filled with precast plug material.

6. The manhole chimneys, including all riser rings shall be sealed using Inti-Shield Unbond or approved equal. Prior to placement, the top 6-inches of the manhole core and casting frame shall be cleaned and primed. The Unbond shall extend from 3-inches below the top of the cone section to 2-inches over the flange of the manhole casting frame.

7. The casting elevations are set by plan. However, the castings are to be adjusted in the field by the Engineer's representative should a discrepancy occur between plan grade and existing grade. New manhole ring and cover shall be installed to establish grade. Maximum height of adjusting rings shall be 12-inches.

8. Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5-feet of paved roadways shall be backfilled with granular material in accordance with Section 211. Backfill under sidewalks shall be granular, unless the walks are constructed a minimum of 6 months after backfill has been in place.

9. The Contractor shall be responsible for verifying that all state highways, city, and county permits have been obtained by the developer prior to start of construction.

10. The Contractor shall be required to furnish the developer a Engineer with a set of prints, marked in red pencil, showing actual sewer location and invert, to include lateral location, depth and length. Such actual prints must be received by the Engineer before the final contract payment is authorized. The sanitary sewer laterals and stubs termination shall be indicated on the surface with a metal fence post set immediately above the said termination point.

11. All sanitary sewer lines upon completion will be required to pass a low pressure air test. Said test shall be conducted according to ASTM 1417-92, and shall be witnessed by an Engineer and a representative of the District. The testing shall be in accordance with Table 12.

12. Deflection tests shall be performed on all flexible pipe after the final backfill has been in place at least 30 days. No pipe shall exceed a vertical deflection of 5% deflection test results. (The following are considered non-flexible pipes: concrete pipe, ductile iron pipe, and cast iron pipe). The deflection test shall be performed with a nine-point mandrel. Proving rings shall be available.

13. All mandrel testing shall be observed by a professional engineer representative for certification and a representative of the District.

14. The ends of laterals are to be plugged tight with a broced plastic disc or cap capable of withstanding a low pressure air test without leakage.

15. Bedding for flexible pipe shall be No. 8 crushed stone from 6-inches below the pipe to 12-inches above the pipe. Bedding for rigid pipe shall be No. 8 crushed stone from 6-inches below the pipe to the spring line of the pipe and from this point to 12-inches above shall be fill sand or equivalent. Manholes shall be placed on no less than 6-inches of No. 8 crushed stone bedding.

16. Water and sewer line crossings and separations shall be in accordance with 327 IAC 3-6-9 and properly protected and/or barricaded when left unattended.

17. No water shall be permitted to flow into the sanitary sewer system during construction. Contractor shall utilize a pump to keep the water level below the pipe. Pump discharge shall be directed to a storm outlet in accordance with state and federal laws and regulations (327 IAC 3-6-20). Any pipe entering existing sewers shall be plugged with screw type mechanical, broced plug until such time as all tests on the sewers have been completed and the lines have passed all punch tests.

18. All sewer laterals installed by the mainline Contractor shall be bedded the same as the main line sewer.

19. Forty-eight (48) hours notice shall be given to the District prior to the start of sewer construction. Also, 48 hours notice shall be given prior to doing any testing on the sewer.

20. Manhole castings shall be stamped SANITARY SEWER (Nenech Casting # 1624A or equal) and be self-sealing type. The casting flange shall be 34 inches and the clear opening shall be 24 inches. Waterproof castings shall be Nenech R-1916-F1 and stamped SANITARY SEWER.

21. The minimum slope for sewer acceptance by the Clay Township Regional Waste District are:

8-inch O.D.	0.40%
10-inch O.D.	0.28%
12-inch O.D.	0.22%
14-inch O.D.	0.18%
18-inch O.D.	0.12%

22. The Contractor shall provide measurements of the slope of the sewer for each manhole section as construction progresses. Such measurements shall be certified by a Registered Land Surveyor or Engineer and be available on-site for observation by the District's Inspector. No more than three manhole sections can be constructed in advance of such measurements.

23. In the event the Contractor does not meet the minimum slopes, the sewer section and any other affected sewer sections shall be reconstructed to meet such minimum slopes.

24. Laterals are to be traced with a minimum size of 14 gauge wire from the eye to the terminus. The contractor for the building or home will extend the wire from this terminus to the building cleaned egress to the building.

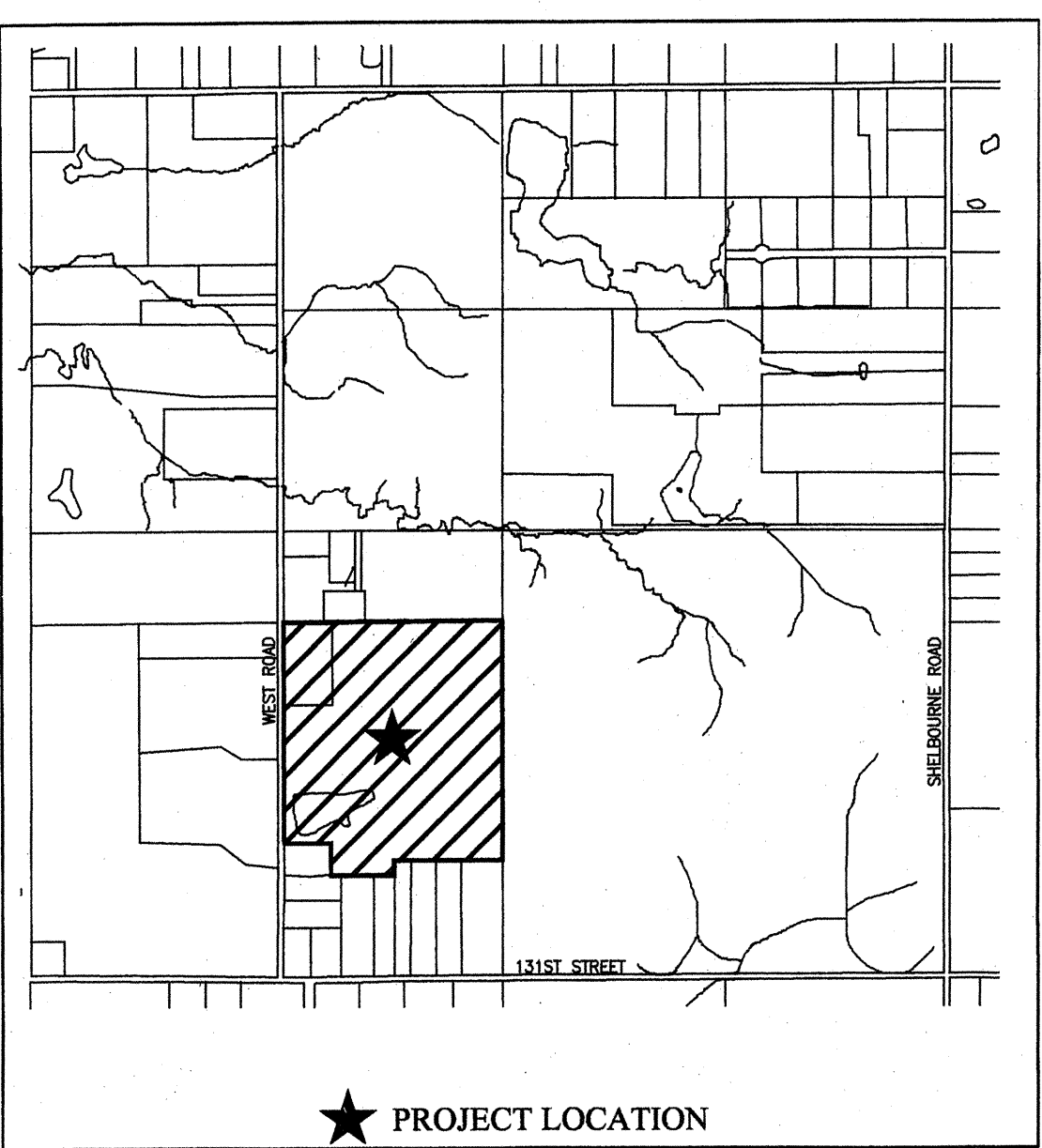
CITY OF CARMEL UTILITY PIPE INSTALLATION

All work shall be in the best practices of the water utility industry and the American Water Works Association, and in accordance with all applicable Federal, State, and local codes and regulations.

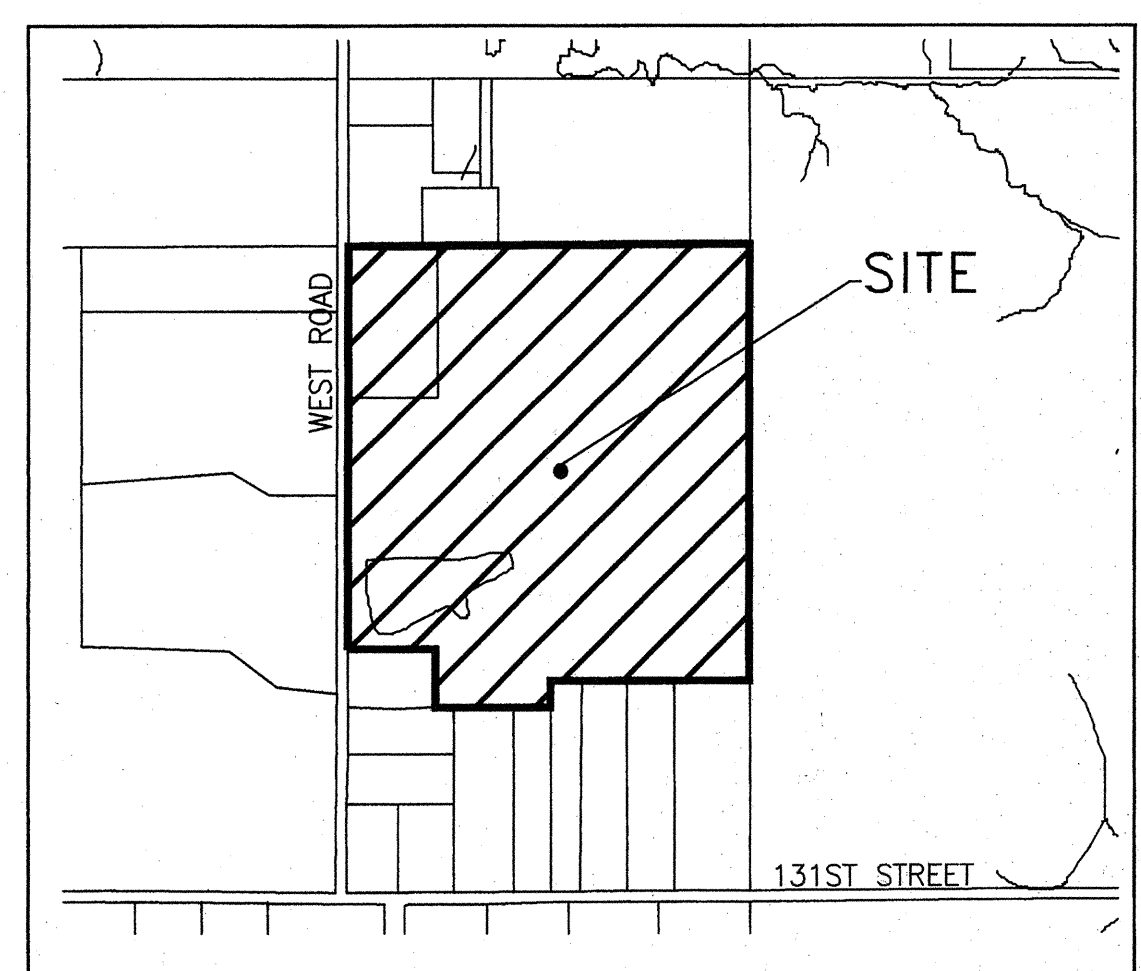
- Furthermore:
- 1) Any damage done to the City of Carmel Utility's system by the Contractor/Developer or his affiliates shall immediately be repaired, to the satisfaction and direction of the City of Carmel Utility by the Contractor/Developer at his own expense.
 - 2) Should the Contractor/Developer propose to depart from the specifications contained herein, he shall submit samples and/or specifications of such alternatives to the City of Carmel Utility before proceeding.
 - 3) No work shall be performed under conditions which in the opinion of the City of Carmel Utilities would adversely affect the quality of the finished job.
 - 4) The Contractor/Developer shall conduct his work so as not to interfere with the present operation of the existing City of Carmel Utility's water/sanitary sewer system. If any work interference is encountered between the City of Carmel Utility and the Contractor/Developer, the City of Carmel Utility will receive priority in scheduling.

CITY OF CARMEL WATER UTILITY DEVELOPER INSTALLED WATER MAINS

- 1) Contractors shall call City of Carmel Utility for an on-site pre-construction meeting before work begins. Contractor must have approved plans on-site and all materials to be used must be approved by a City of Carmel Utility Inspector.
- 2) Contractor will allow inspection by City of Carmel Utility inspectors during the construction of the water main extension and will honor the City of Carmel Utility's request for field changes in main extensions related to location, workmanship and materials as they relate to City of Carmel Utility standards and specifications.
- 3) The Contractor will have water main extensions pressure tested per City of Carmel Utility specifications and witnessed by City of Carmel Utility's inspector.
- 4) The Contractor will conduct the disinfection of water main extension, with direct supervision by a City of Carmel Utility Operator.
- 5) Only after the water main extension passes the City of Carmel Utility's laboratory testing, and two (2) sets of AS-BUILT plans have been turned in to the City of Carmel Utility, will the water be turned on by the City of Carmel Utility.



★ PROJECT LOCATION
AREA MAP



SITE LOCATION MAP

CITY OF CARMEL UTILITY STANDARDS NOTES:

- 1) Absolutely no Kennedy Fire Hydrants or Valves are allowed.
- 2) Only Tyler Valve Boxes are allowed.
- 3) Ductile Iron Pipe in lengths of 20 feet is the only length allowed.

CITY OF CARMEL WATER-WASTEWATER UTILITIES WATER OPERATIONS MANAGER: PAUL PACE 317-571-2648

PAPECCI.CARMEL.IN.US
NOTE: CONTACT DIRECTLY FOR ALL WATER AND SANITARY SEWER MAIN LOCATIONS.

BENCHMARK INFORMATION

D.N.R. BM disk stamped "Lee 2 AZI" - N.G.V.D. 1929 Set in the top of a concrete post, level with road in the SE quadrant of West 131st Street and Shelbourne Road. Near E/4 corner of Sec. 30-T18N-R3E.

- ELEVATION = 917.887
- TBM's on site.
- TBM # 1 = R/R Spike set north side of Pwp. Approx. 60' south of 131st St. and near the southerly extension of the east line of NW/4, Sec. 30-T18N-R3E
- Elevation = 910.30
- TBM # 2 = Cut Square 10 feet east of the end of the south curb of Dolan Way.
- Elevation = 907.86
- TBM # 3 = Cut Square 1.0 feet north of the south end of the east headwall approx. 20 feet north of the southwest corner of surveyed parcel.
- Elevation = 890.24

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 #18057C020025, 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 ANY WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; CARMEL, INDIANA, NATIONAL WETLANDS INVENTORY MAP DATED 1990. THE EXISTING POND ON THE SUBJECT REAL ESTATE IS CONSIDERED A WETLANDS AREA.

LAND DESCRIPTION

A part of the East Half of the Northwest Quarter of Section 30, Township 18 North, Range 3 East of the Second Principal Meridian in Clay Township of Hamilton County, Indiana, being more particularly described as follows:

Commencing at the Southwest corner of the East Half of the Northwest Quarter of Section 30, Township 18 North, Range 3 East of the Second Principal Meridian in Clay Township of Hamilton County, Indiana, said point being South 89 degrees 31 minutes 42 seconds East 1481.06 feet from the Southwest corner of said quarter section and South 89 degrees 45 minutes 57 seconds West 1316.95 feet from the Southeast corner of said quarter section; thence North 00 degrees 08 minutes 11 seconds East (Assumed Bearing) along the west line of said East half 810.30 feet to the POINT OF BEGINNING of the following described real estate;

Thence continue along said west line North 00 degrees 08 minutes 11 seconds East 1301.85 feet to a point being 533.60 feet south along said line from the Northwest corner of said East half; thence North 89 degrees 59 minutes 59 seconds East parallel with and 533.60 feet south of the North line of said East half a distance of 1312.67 feet to a point on the East line of the Northwest Quarter of said Section 30; thence South 00 degrees 01 minutes 14 seconds West along said East line 1410.68 feet to a point 698.00 feet north along said line from the Southwest corner of said Northwest Quarter; thence South 89 degrees 45 minutes 57 seconds West parallel with and 698.00 feet north of the South line of said East half a distance of 644.20 feet; thence South 00 degrees 08 minutes 11 seconds West parallel with the West line of said East half 87.71 feet; thence South 89 degrees 45 minutes 57 seconds West parallel with said south line 383.34 feet; thence North 00 degrees 08 minutes 11 seconds East parallel with the West line of said East half 200.00 feet; thence South 89 degrees 45 minutes 57 seconds West parallel with said south line 288.00 feet to the Point of Beginning.

Containing 42.649 Acres, more or less.

Subject to the right-of-way of West Road being an apparent 16.5 feet (1-road) off the entire west side of the above described parcel.

Subject to all other easement, restrictions and rights-of-way.

PLANS PREPARED FOR

LANGSTON DEVELOPMENT COMPANY, INC.
1132 S. RANCELINE RD. SUITE 100
CARMEL, INDIANA 46032
TELEPHONE: 317-846-7017
FAX: 317-846-0217
CONTACT PERSON: JIM LANGSTON

DESIGN SPEED: 25 MPH

CURRENT ZONING: S-1/RESIDENCE ESTATE

*SUBMITTAL UNDER OPEN SPACE STANDARDS CARMEL/CLAY SUBDIVISION CONTROL ORDINANCE.

RECORD DRAWING

SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY

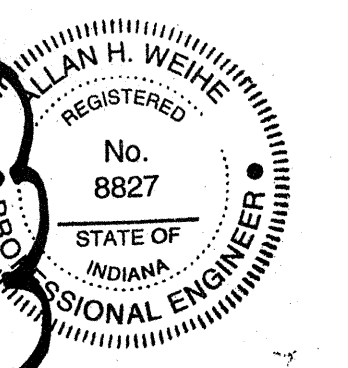
ALLAN H. WEIHE-REG P.E.-IN #8827

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY

ALLAN H. WEIHE-REG P.E.-IN #8827

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY

ALLAN H. WEIHE-REG P.E.-IN #8827



HOLEY MOLEY SAYS
"DIG SAFELY"



"IT'S THE LAW"
CALL TOLL FREE
1-800-382-5544
PER INDIANA STATE LAW ICS-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE ENGINEERING
LOCATION SERVICE TWO (2) WORKING DAYS
BEFORE COMMENCING WORK.

OPERATING AUTHORITIES:

- | | | |
|--|--|---|
| CITY OF CARMEL
ONE CIVIC SQUARE
CARMEL, IN 46032
PLANNING DIRECTOR: JOHN DOBOSIEWICZ
317-571-2417
DEPT. OF ENGINEERING: DICK HILL
317-571-2441
ASSIST. BUILDING COMMISSIONER: JIM BLANCHARD
317-571-2444 | HAMILTON COUNTY HEALTH DEPARTMENT
HAMILTON COUNTY JUDICIAL CENTER, SUITE 30
NOBLESVILLE, INDIANA 46060-2229
JASON LEMASTER
317-776-8500 | CINERGY/PSI
1441 SOUTH GUILFORD
CARMEL, INDIANA 46032
RON BOOHER
317-581-3041 |
| CITY OF CARMEL FIRE DEPARTMENT
TWO CIVIC SQUARE
CARMEL, INDIANA 46032
GARY HOYT
317-571-2600 | VEOLIA WATER INDIANAPOLIS
1220 WATERWAY BLVD.
INDIANAPOLIS, INDIANA 46202
317-263-6347 | VECTREN ENERGY
P.O. BOX 1700
NOBLESVILLE, INDIANA 46061-1700
CHUCK SHUPPER
317-776-5535 |
| CLAY TOWNSHIP REGIONAL WASTE DISTRICT
10701 NORTH COLLEGE AVENUE, SUITE A
INDIANAPOLIS, IN 46280-1098
CANDY FELTNER
317-844-9200 | CARMEL CITY UTILITIES
760 3RD AVENUE S.W.
CARMEL, INDIANA 46032
JOHN DUFFY
317-571-2443 | SBC
5858 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46220
317-265-2727 |
| | HAMILTON COUNTY SURVEYOR'S OFFICE
ONE HAMILTON SQUARE, SUITE 188
HAMILTON COUNTY JUDICIAL CENTER
NOBLESVILLE, INDIANA 46060
GREG HOYES
317-776-8495 | |

WEIHE ENGINEERS, INC.
10895 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6468

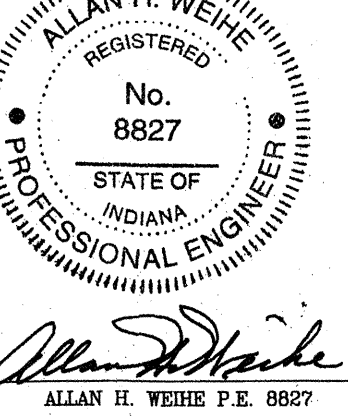
ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

PROJECT NO.: W03-0984
DWG NAME: CONSTRUCTION
FIELD DT:
DRAWN BY: JLS
CHECKED BY:
DATE: 10/18/2004

REVISIONS

NO.	DATE	DESCRIPTION
1	11/08/2004	REV SANITARY PER CTE
2	12/07/2004	REV EROSION CONTROL PER HAMILTON COUNTY SOIL & WATER
3	12/08/2004	REV PER CITY OF CARMEL
4	12/27/2004	REV PER H.C.S.W., REV STORM PER LANGSTON
5	01/05/2005	REV OFFSITE SANITARY SEWER
6	01/10/2005	REV PER H.C.S.W., ADD EROSION DETAIL
7	01/13/2005	REV STORM, REV LAKE CONTOURS
8	01/21/2005	REV PER CITY OF CARMEL
9	02/08/2005	ADDED SILT BASINS PER HAM. CO. SWCD
10	02/28/2005	REV PER CITY OF CARMEL & HAMILTON CO. SURVEYOR
11	03/21/2005	REV PER CITY OF CARMEL/CROSSROADS COMMENTS
12	03/29/2005	REV PER N. REDDEN/ CITY OF CARMEL ENGINEERING
13	1/04/2006	STORM, SANITARY & WATER AS-BUILTS



Langston Development Company, Inc Carmel, Indiana
TITLE SHEET
Part of the E 1/2 of the NW 1/4 of Sec. 30-T18N-R3E in Hamilton County, Indiana

PREPARED FOR:
GLEN OAKS SUBDIVISION
Langston Development Company, Inc Carmel, Indiana
SHEET NO. 1
PROJECT NO. W03-0984

RECORD DRAWING STORM SEWER AS-BUILTS
RECORD DRAWING SANITARY SEWER AS-BUILTS
RECORD DRAWING WATER AS-BUILTS

STORM SEWER STRUCTURES ONLY 1-10-06
 SANITARY SEWER STRUCTURES ONLY 1-10-06
 WATER STRUCTURES ONLY 1-10-06

ALLAN H. WEIHE-REG P.E.-IN #8827
 ALLAN H. WEIHE-REG P.E.-IN #8827
 ALLAN H. WEIHE-REG P.E.-IN #8827

GENERAL NOTES:

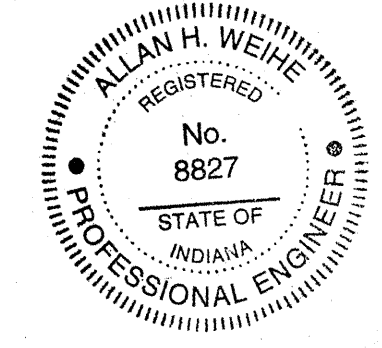
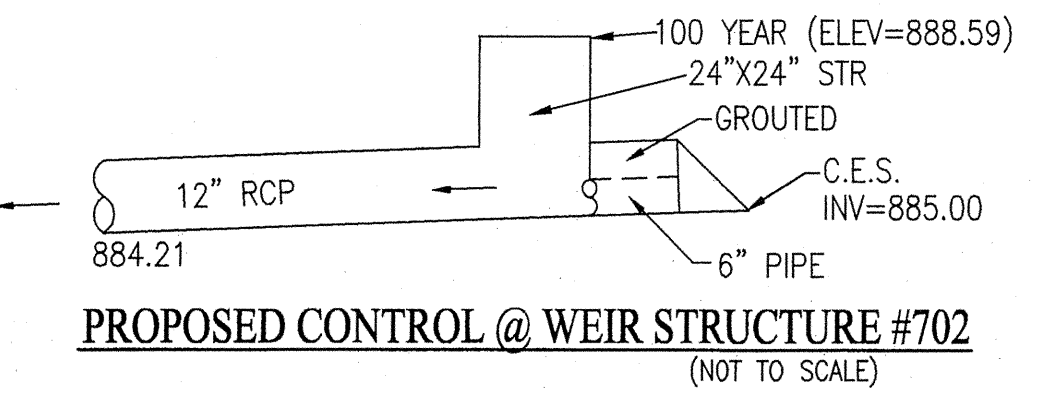
- DRAINAGE EASEMENTS TO BE CLEARED WITH EXCEPTION OF DESIRED TREES WITHIN EASEMENT WITH FLAGGING NOTATION APPROVED BY HAMILTON COUNTY SURVEYORS OFFICE.
- EXISTING PRIVATE TILE CROSSING TRACT TO BE CRUSHED AND/OR EXCAVATED WHEN EXPOSED DURING CONSTRUCTION OF STREETS OR PADS. UNDISTURBED TILE TO BE PLOUGGED & SEALED AT EXPOSED ENDS.
- BUILDING PADS MARKED WITH AN ASTERISK (*) WILL BE GRADED ON AN INDIVIDUAL BASIS & WILL BE A MINIMUM OF 2 FEET ABOVE THE 100 YR. FLOOD ELEV.

LEGEND

- RIGHT-OF-WAY LINE
- STORM SEWER LINE
- SMILE
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- FLOW DIRECTION
- EXIST. CONTOURS
- STORM SEWAGE INLET
- STORM INLET
- TOP OF CASTING
- INVERT
- REINFORCED CONCRETE PIPE
- POLYETHYLENE GLASS SANITARY SEWER PIPE
- MANHOLE
- STRUCTURE
- DRAINAGE AND UTILITY EASEMENT
- R.O.E.
- BUILDING SETBACK LINE
- VARIABLE WIDTH
- PROPOSED
- MATCH EXISTING
- TYPICAL
- SUBSURFACE DRAIN AND SUMP LINE
- WATER LINE
- CONCRETE END SECTION
- FLOOD ROUTE
- PROPOSED GRADE
- PROP. STORM STRUCTURE NO.
- PROP. SANITARY STRUCTURE NO.
- EXIST. TREELINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER LINE VALVE
- 100 YEAR ELEVATION
- MIN. F.F.E. AT LOT LINE
- 100 YEAR ELEV. + 2 FEET
- WOODED AREA FINISHED GRADE DETERMINED AT TIME OF CONSTRUCTION. INDICATES MINIMUM PAD GRADES AT LOWEST STRUCTURE OPENING TO BE SET NO LESS THAN 2' ABOVE 100 YEAR FLOOD ELEVATION AS NOTED ON PLANS FOR ADJACENT LAKE AREAS.
- MINIMUM FLOOD PROTECTION GRADE OF PADS. MINIMUM GRADE FOR ANY STRUCTURE OPENING (DOOR, WINDOW WELL, OUTSIDE BASEMENT STAIR ACCESS, ETC.)

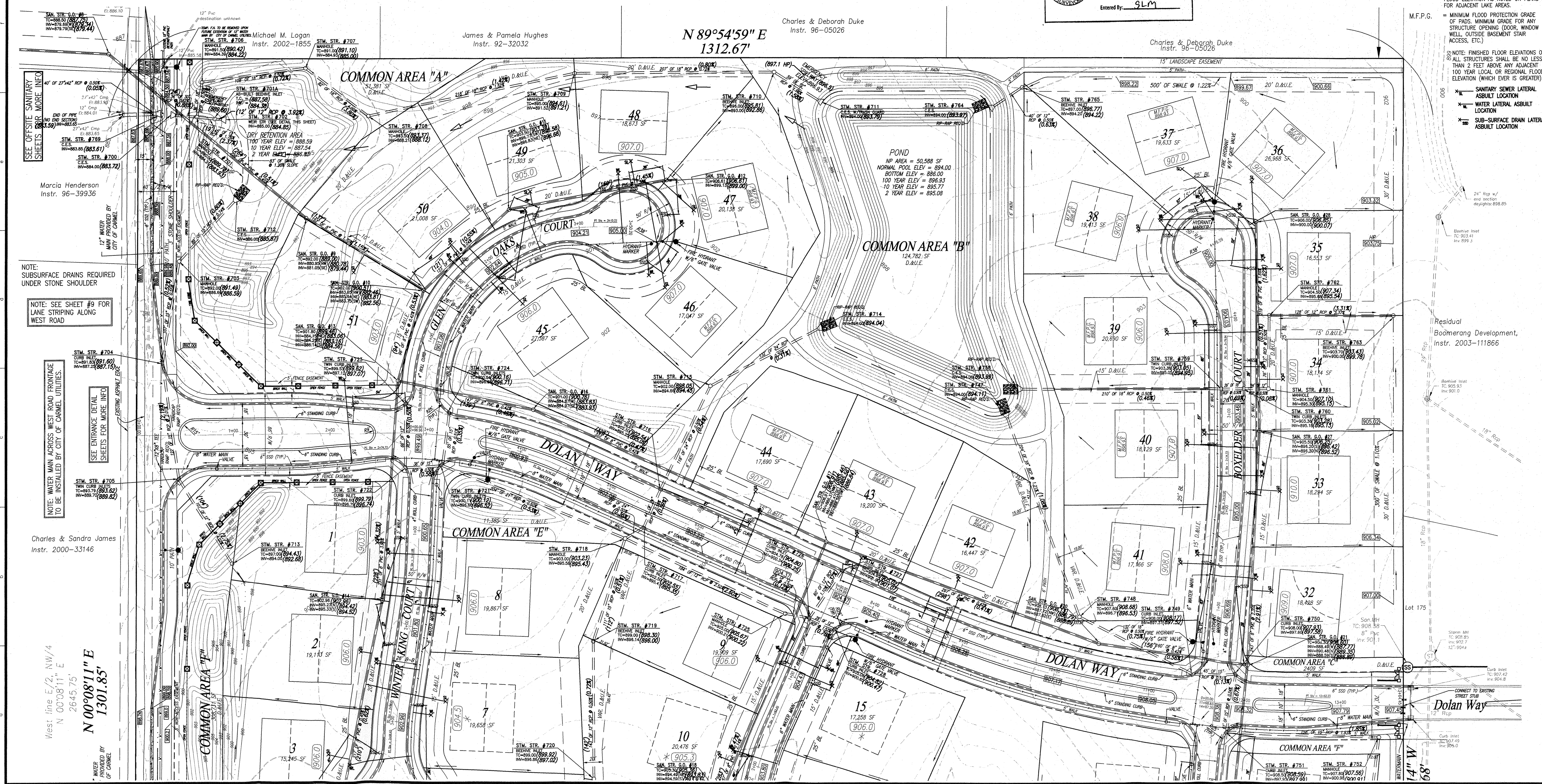
SCALE: 1" = 50'

0 25 50 100



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: 2-1-07
 Entered By: SLM



WEIHE ENGINEERS, INC.
 10505 NORTH COLLEGE AVENUE
 HAMILTON COUNTY, INDIANA 46046
 (317) 846-6446 FAX (317) 846-6446
 TOLL-FREE (800) 452-6408

ALLAN H. WEIHE
 REGISTERED LAND SURVEYOR
 REGISTERED LAND SURVEYOR
 PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

PREPARED FOR:
GLEN OAKS SUBDIVISION
 Langston Development Company, Inc Carmel, Indiana
SITE DEVELOPMENT PLAN
 Part of the E 1/2 of the NW 1/4 of Sec. 30-T18N-R3E in Hamilton County, Indiana

DATE: 1/04/06
 DRAWN BY: JMB
 CHECKED BY: JMB
 DATE: 10/18/2004

PROJECT NO.
W03-0984

SHEET NO.
3

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STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
700	CES	NONE	N/A	884.00 (883.72)
701	MANHOLE	SOLID	890.00 (889.78)	884.21 (883.93)
701A	INLET	BEEHIVE	(887.58)	(884.38)
702	M.E.S. (OR SPECIAL)	NONE	N/A	885.00 (884.85)
703	MANHOLE	SOLID	892.00 (891.49)	886.66 (886.59)
704	INLET	CURB	891.83 (891.60)	887.25 (887.15)
705	INLET	TWIN CURB	893.79 (893.62)	890.50 (889.82)
706	MANHOLE	SOLID	891.50 (890.42)	884.39 (884.22)
707	MANHOLE	SOLID	891.00 (891.10)	884.93 (885.00)
708	MANHOLE	SOLID	893.50 (893.37)	888.21 (888.12)
709	MANHOLE	SOLID	895.00 (894.61)	891.52 (891.21)
710	INLET	BEEHIVE	896.00 (895.81)	892.86 (892.86)
711	CES W/TRASH GUARD	NONE	N/A	894.00 (893.79)
712	CES	NONE	N/A	886.00 (885.87)
713	INLET	BEEHIVE	897.00 (894.43)	894.00 (892.68)
714	CES	NONE	N/A	894.00 (894.04)
715	MANHOLE	SOLID	902.00 (898.05)	894.66 (894.45)
716	INLET	CURB	902.50 (902.54)	895.25 (895.09)
717	INLET	CURB	902.50 (902.55)	895.47 (895.35)
718	MANHOLE	SOLID	903.00 (903.23)	895.58 (895.43)
719	INLET	BEEHIVE	899.00 (899.92)	896.14 (896.00)
720	INLET	TWIN CURB	900.11 (900.12)	896.60 (896.52)
721	INLET	CURB	899.60 (899.79)	896.79 (896.74)
722	INLET	TWIN CURB	899.53 (899.62)	897.12 (887.07)
723	INLET	TWIN CURB	900.04 (900.16)	896.88 (896.71)
724	MANHOLE	SOLID	905.00 (905.67)	900.21 (900.22)
725	INLET	CURB	904.78 (904.80)	900.34 (900.25)
726	INLET	CURB	904.95 (905.02)	901.00 (901.07)
728	INLET	CURB	905.06 (904.82)	900.65 (900.47)
729	CES	NONE	N/A	893.50 (893.46)
730	INLET	CURB	903.09 (902.84)	899.00 (899.24)

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
731	CES	NONE	N/A	893.50 (893.52)
732	INLET	CURB	901.86 (901.79)	894.85 (894.99)
733	INLET	CURB	901.86 (901.71)	894.98 (895.06)
734	INLET	BEEHIVE	898.00 (897.39)	895.75 (895.49)
735	CES	NONE	N/A	893.50 (893.49)
736	INLET	CURB	898.21 (898.05)	893.97 (893.30)
737	MANHOLE	SOLID	897.00 (896.95)	894.24 (894.05)
738	INLET	CURB	898.21 (898.04)	894.09 (894.00)
739	MANHOLE	SOLID	899.00 (899.17)	894.99 (894.99)
740	MANHOLE	SOLID	903.00 (903.09)	895.45 (895.44)
741	MANHOLE	SOLID	903.00 (902.16)	895.88 (895.91)
741A	INLET	BEEHIVE	899.00 (898.92)	895.96 (896.12)
742	INLET	CURB	902.48 (902.52)	897.00 (897.02)
743	INLET	CURB	902.48 (902.52)	897.96 (898.02)
744	CES	NONE	N/A	893.50 (893.41)
745	MANHOLE	SOLID	899.50 (898.10)	895.20 (893.95)
746	INLET	BEEHIVE	899.00 (898.04)	895.65 (894.44)
747	CES	NONE	N/A	894.00 (894.11)
748	MANHOLE	SOLID	907.60 (906.68)	896.71 (896.53)
749	INLET	CURB	908.00 (908.17)	897.37 (897.52)
750	INLET	CURB	908.00 (907.93)	897.60 (897.58)
751	INLET	CURB	908.50 (908.59)	897.93 (897.99)
752	MANHOLE	SOLID	907.80 (907.56)	900.98 (900.91)
753	INLET	BEEHIVE	905.00 (904.51)	902.00 (902.11)
754	INLET	CURB	906.00	904.00
755	INLET	CURB	902.18 (902.27)	898.96 (898.92)
756	INLET	CURB	902.18 (902.11)	899.09 (899.01)
757	INLET	BEEHIVE	900.75 (900.74)	899.18 (899.14)
758	CES	NONE	N/A	894.00 (893.99)
759	INLET	TWIN CURB	903.36 (903.05)	895.05 (894.95)
760	INLET	TWIN CURB	903.36 (903.28)	895.18 (895.13)
761	MANHOLE	SOLID	904.50 (907.10)	895.30 (895.15)

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	TOP OF CASTING	INVERT
762	MANHOLE	SOLID	904.50 (907.34)	895.68 (895.54)
763	INLET	BEEHIVE	903.70 (903.43)	900.00 (899.78)
764	CES	NONE	N/A	894.00 (893.97)
765	INLET	BEEHIVE	N/A (896.77)	897.00 (894.22)
765A	CES	NONE	N/A	(893.34)
766	OUTLET STR (SEE DETAIL)	NONE	N/A (895.84)	889.93 (890.04)
766A	INLET	BEEHIVE	(888.87)	(886.87)
767	MANHOLE	NONE	890.00 (890.88)	885.93 (886.88)
768	CES	NONE	N/A	885.74 (886.46)
769	CES	NONE	N/A	883.85 (883.61)

STRUCTURE NUMBER	TOP OF CASTING	INVERT (IN)	INVERT (OUT)
EX MH BWD #522	863.00 (862.99)	852.43	850.44
SAN. STR. G.O. #3	872.20 (872.33)	856.24 (856.16)	856.14 (856.06)
SAN. STR. G.O. #4	883.00 (891.96)	873.09 (871.20)	871.10 (869.65)
SAN. STR. G.O. #5	891.20 (890.07)	874.65 (875.85)	874.55 (875.75)
SAN. STR. G.O. #6	887.90 (886.50)	875.19 (874.29)	875.09 (874.19)
SAN. STR. G.O. #7	890.70 (890.37)	877.49 (876.80)	877.39 (876.70)
SAN. STR. G.O. #8	888.50 (887.64)	879.79 (879.44)	879.69 (879.34)
SAN. STR. G.O. #9	892.00 (889.00)	881.05 (880.88)	880.95 (880.78)
SAN. STR. G.O. #10	902.00 (900.51)	885.84 (882.75)	883.65 (882.46)
SAN. STR. G.O. #11	903.50 (903.39)	896.83 (896.68)	896.73 (896.58)
SAN. STR. G.O. #12	906.00 (906.61)	N/A	899.13 (899.00)
SAN. STR. G.O. #13	901.80 (899.46)	886.14 (884.25)	884.15 (883.06)
SAN. STR. G.O. #14	902.50 (902.82)	894.41 (894.52)	895.23 (894.42)
SAN. STR. G.O. #14A	904.00 (904.16)	896.41 (895.92)	896.31 (895.82)
SAN. STR. G.O. #15	903.70 (902.82)	896.68 (896.29)	896.58 (896.29)
SAN. STR. G.O. #16	901.00 (900.76)	884.97 (883.93)	884.87 (883.83)
SAN. STR. G.O. #17	905.00 (906.91)	888.36 (886.47)	885.56 (886.84)
SAN. STR. G.O. #18	903.30 (905.36)	894.59 (893.93)	894.49 (893.83)
SAN. STR. G.O. #19	902.00 (902.10)	N/A	895.00 (894.91)
SAN. STR. G.O. #20	906.00 (908.13)	887.82 (886.89)	887.72 (886.79)
SAN. STR. G.O. #21	908.30 (908.60)	890.48 (889.35)	888.53 (887.67)
SAN. STR. G.O. #22	903.50 (905.64)	890.05 (889.50)	889.95 (889.40)
SAN. STR. G.O. #23	906.00 (907.27)	890.78 (890.42)	890.68 (890.32)
SAN. STR. G.O. #24	906.00 (907.75)	891.51 (891.26)	891.41 (891.16)
SAN. STR. G.O. #25	905.00 (905.67)	892.62 (892.41)	891.52 (892.31)
SAN. STR. G.O. #26	900.00 (899.22)	N/A	893.27 (893.08)
SAN. STR. G.O. #27	905.50 (906.25)	896.30 (896.52)	896.20 (896.42)
SAN. STR. G.O. #28	906.00 (906.85)	N/A	900.00 (900.07)

GENERAL NOTES:

- DRAINAGE EASEMENTS TO BE CLEARED WITH EXCEPTION OF DESIRED TREES WITH EASEMENT WITH FLAGGING NOTATION APPROVED BY HAMILTON COUNTY SURVEYORS OFFICE.
- EXISTING PRIVATE TIE CROSSING TRAY TO BE CRUSHED AND/OR EXCAVATED WHEN EXPOSED DURING CONSTRUCTION OF STREETS OR PADS. UNDISTURBED TIE TO BE PLUGGED & SEALED AT EXPOSED ENDS.
- BUILDING PADS MARKED WITH AN ASTERISK (*) WILL BE GRADED ON AN INDIVIDUAL BASIS & WILL BE A MINIMUM OF 2 FEET ABOVE THE 100 YR. FLOOD ELEV.

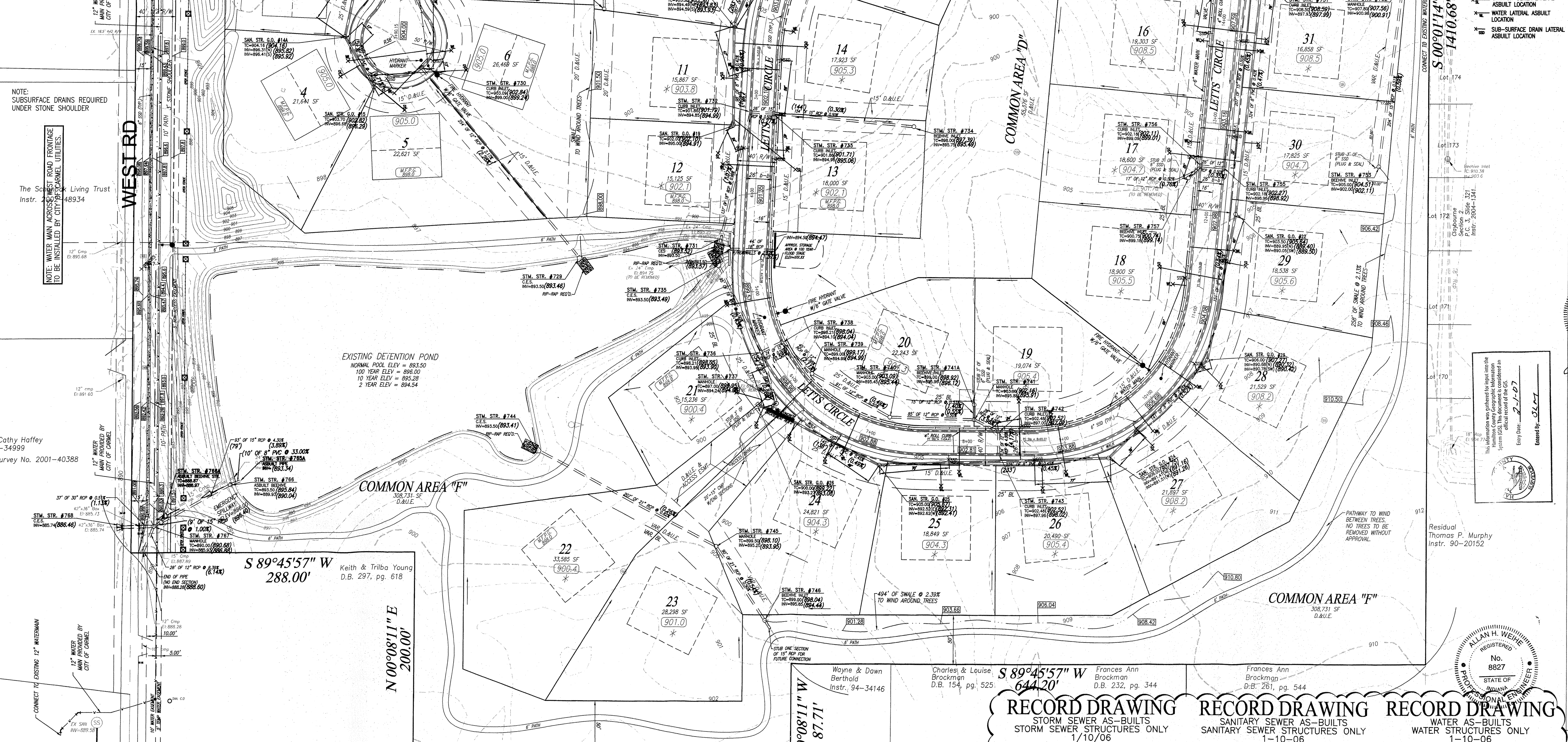
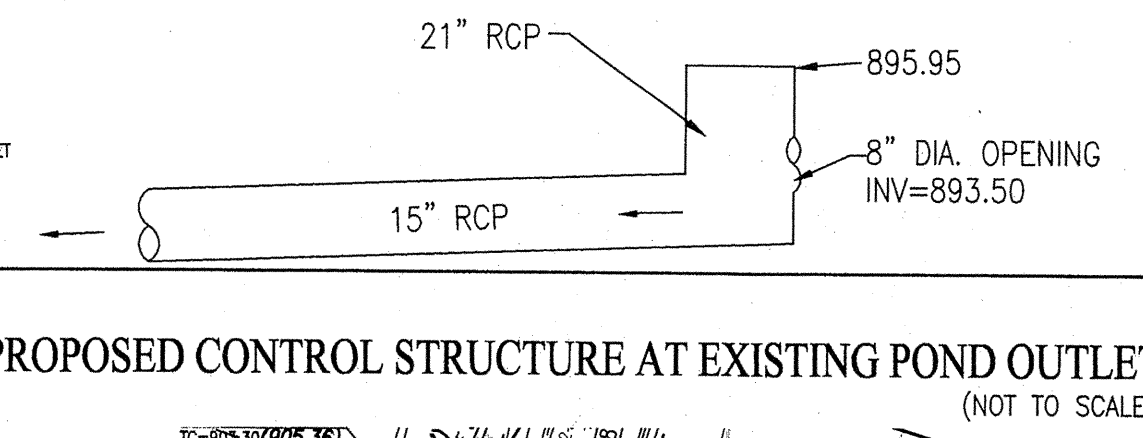
M.F.P.G. = MINIMUM FLOOD PROTECTION GRADE
M.P.P.G. = MINIMUM PAD PROTECTION GRADE
OF PADS, MINIMUM GRADE FOR ANY STRUCTURE OPENING (DOOR, WINDOW WELL, OUTSIDE BASEMENT STAIR ACCESS, ETC.)

NOTE: FINISHED FLOOR ELEVATIONS OF ALL STRUCTURES SHALL BE NO LESS THAN 2 FEET ABOVE ANY ADJACENT 100 YEAR LOCAL OR REGIONAL FLOOD ELEVATION (WHICH EVER IS GREATER).

LEGEND

- RIGHT-OF-WAY LINE
- STORM SEWER LINE
- SMALLE
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- FLOW DIRECTION
- EXIST. CONTOURS
- STORM RESERVE INLET
- STORM INLET
- TOP OF CASTING
- INVERT
- R.C.P.
- P.V.C.
- M.A.S.T.R.
- STRUCTURE
- DRAINAGE AND UTILITY EASEMENT
- REGULATED DRAIN EASEMENT
- BUILDING SETBACK LINE
- VARIABLE WIDTH LINE
- PROPOSED
- MATCH EXISTING
- TYPICAL
- SUBSURFACE DRAIN AND SUMP LINE
- WATER LINE
- CONCRETE END SECTION
- FLOOD ROUTE
- PROPOSED GRADE
- PROP. STORM STRUCTURE NO.
- PROP. SANITARY STRUCTURE NO.
- EXIST. TREELINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER LINE VALVE
- 100 YEAR ELEVATION
- MIN. F.F.E. AT LOT LINE (100 YEAR ELEV. + 2 FEET)
- WOODED AREA, FINISHED GRADE DETERMINED AT TIME OF CONSTRUCTION. INDICATES MINIMUM PAD GRADES AT LOWEST STRUCTURE OPENING TO BE SET NO LESS THAN 2' ABOVE 100 YEAR FLOOD ELEVATION AS NOTED ON PLANS FOR ADJACENT LAKE AREAS.
- SANITARY SEWER LATERAL ASSESSMENT LOCATION
- WATER LATERAL ASSESSMENT LOCATION
- SUB-SURFACE DRAIN LATERAL ASSESSMENT LOCATION

SCALE: 1" = 50'



NOTE: WATER MAIN ACROSS WEST ROAD FRONTAGE TO BE INSTALLED BY CITY OF CARMEL UTILITIES.

The So... Living Trust Instr. 48934

Cathy Haffey -34999 Survey No. 2001-40388

James & Valeah Swearinger D.B. 172, pg 109

Keith & Triba Young D.B. 297, pg. 618

John & Jodi Lethen Instr. 2002-13550

Tim & Donna Broyles Instr. 93-28901

Wayne & Dawn Berthold Instr. 94-34146

Charles & Louise Brockman D.B. 154, pg. 525

Frances Ann Brockman D.B. 232, pg. 344

Frances Ann Brockman D.B. 261, pg. 544

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
1/10/06

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
1-10-06

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
1-10-06

ALLAN H. WEIHE-REG P.E.-IN #8827
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WEIHE ENGINEERS, INC.
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TOLL-FREE: (800) 453-6408

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

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PROJECT NO. 03-001
DWG NAME: 0308A.DWG
FIELD BY: JWB
DRAWN BY: JWB
CHECKED BY: JWB
DATE: 10/18/2004

REVISIONS AND ISSUES

DATE: 1/04/06

STORM, SANITARY AND WATER AS-BUILTS

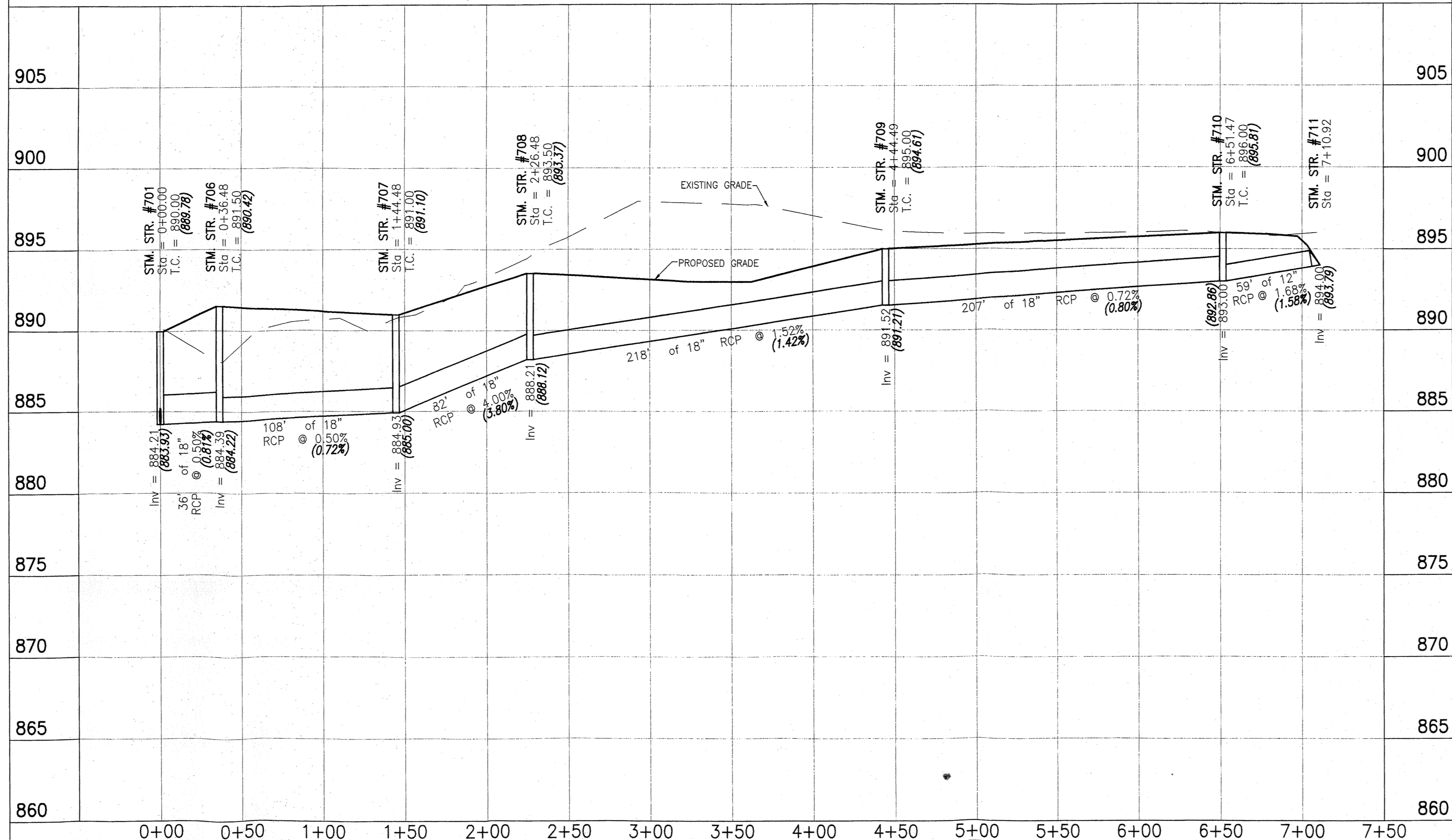
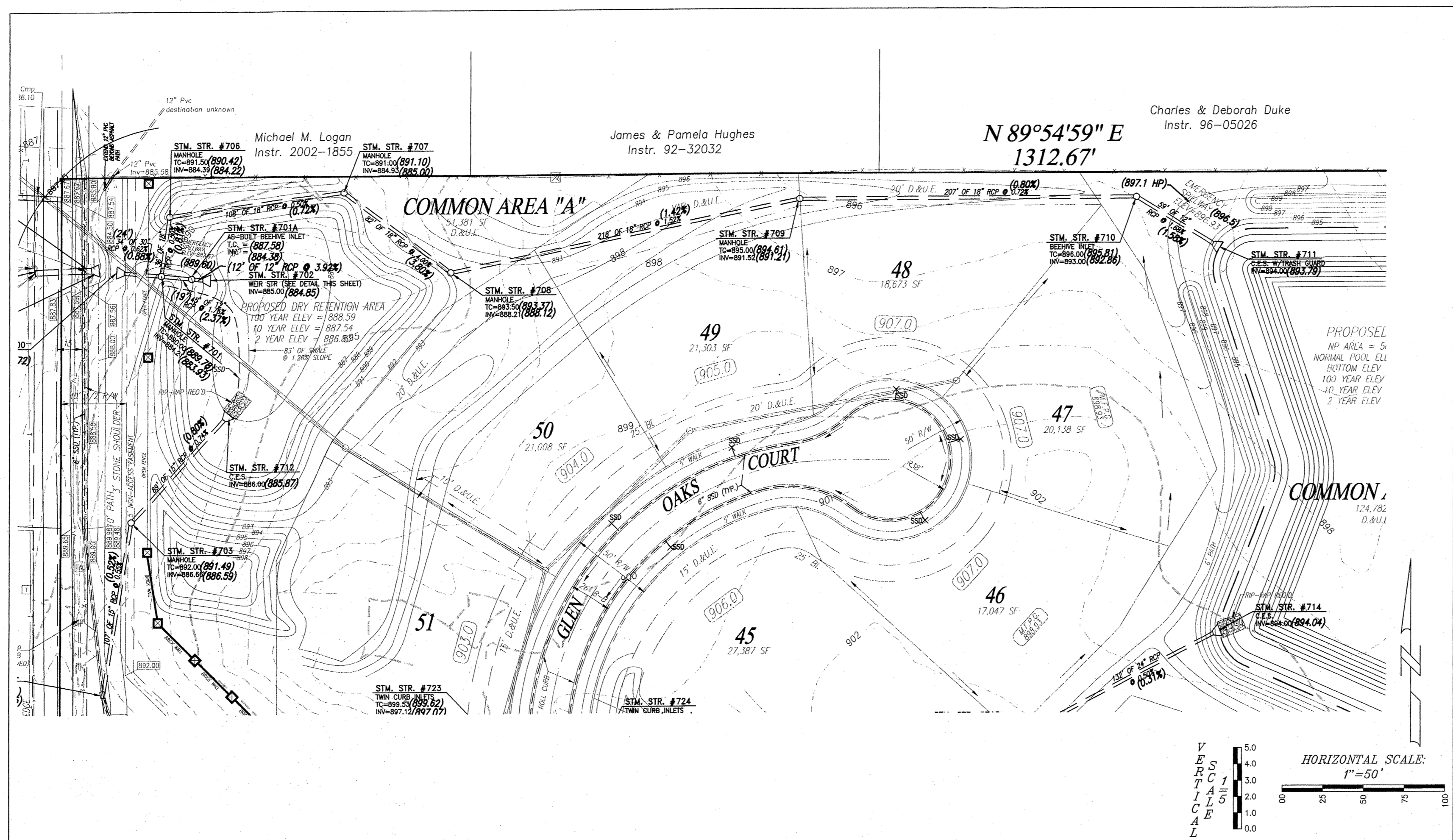
ALLAN H. WEIHE
REGISTERED
No. 8827
STATE OF INDIANA
PROFESSIONAL ENGINEER

Prepared by: JWB
Entry Date: 2-1-07

GLEN OAKS SUBDIVISION
Langston Development Company, Inc. Carmel, Indiana
SITE DEVELOPMENT PLAN
Part of the E 1/2 of the NW 1/4 of Sec. 30-T18N-R9E in Hamilton County, Indiana

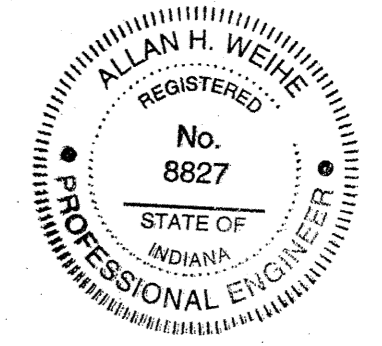
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PLOT DATE: January 26, 2006 2:22pm
PLOTTER: HP DesignJet 500



RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
1-4-06

Allan H. Weihe
ALLAN H. WEIHE-REG. P.E.-IN #8827



STORM SEWERS

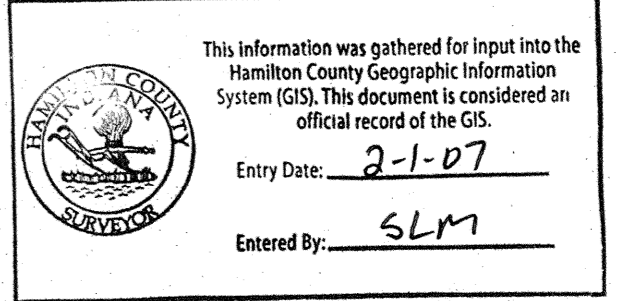
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Final Backfill
Final backfill for all RCP installations under and within 5-feet of pavement shall be B-Borrow for Structure Backfill meeting the material requirements of the INDOT and shall be compacted in 6-inch maximum lifts to not less than 95% 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 than 95% Standard Proctor Density.

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MINIMUM COVER FOR PIPE CROSSINGS OF CITY STREETS

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NOTE: ALL CASTINGS SHOULD BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY".

The storm sewer system shall be constructed per design specified and as approved by the Hamilton County Surveyor's Office on the final approved construction plans. Deviations from the approved design shall only be permitted due to special circumstances or difficulty during designated representative of the Hamilton County Surveyor's Office 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 shall require as-built certification at the time of construction.

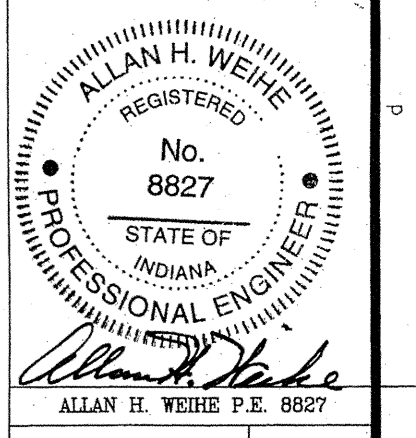
*The contractor shall field check each section of storm pipe as it is being installed to ensure compliance with the design plans.

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
CITY: 317-446-1600 FAX: 317-446-0546
TOLL-FREE: (800) 525-5408

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REGISTERED LAND SURVEYOR
PRESIDENT

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PROJECT NO.	03084
DWG. NAME	03084 STM.dwg
FIELD BY	
DRAWN BY	
CHECKED BY	
DATE	10/18/2004



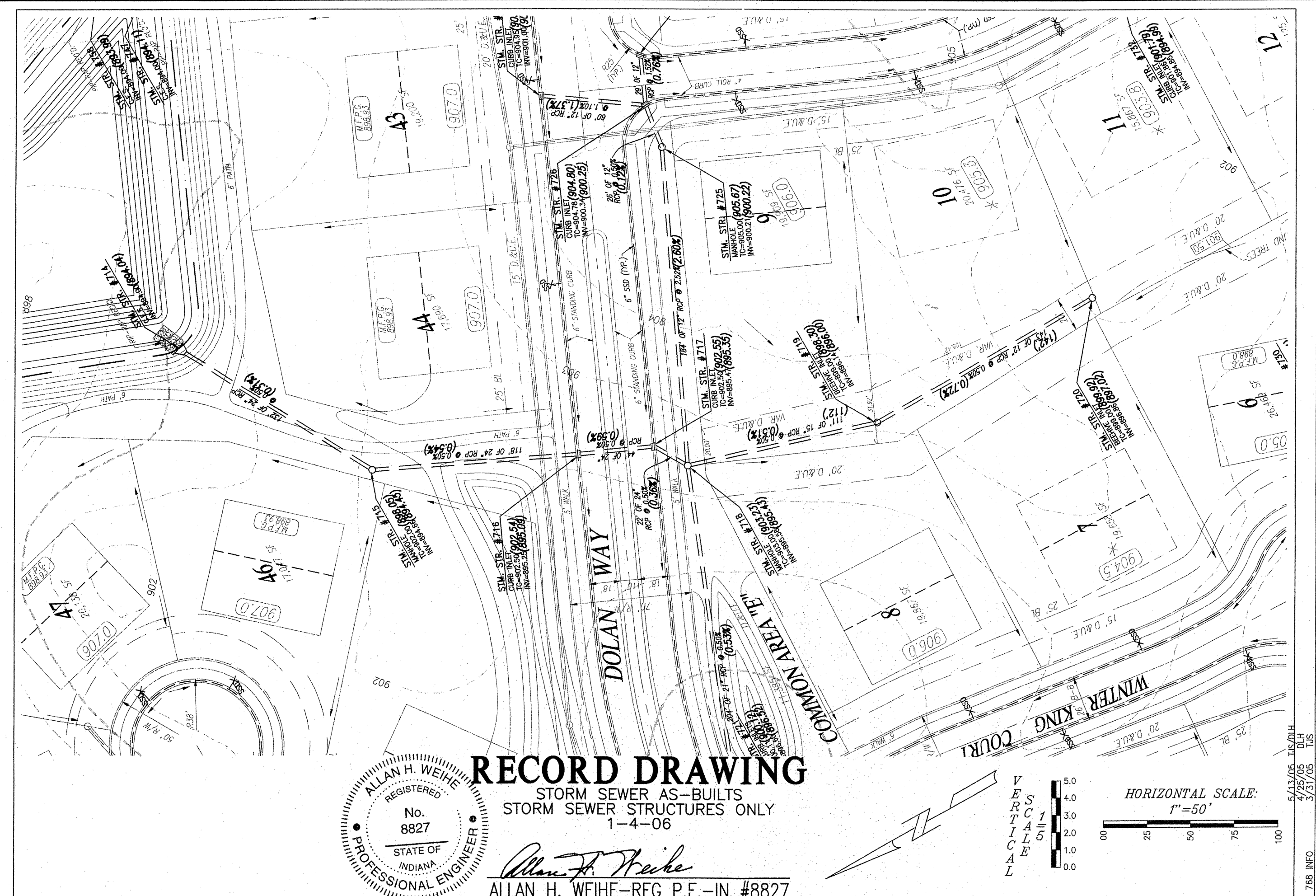
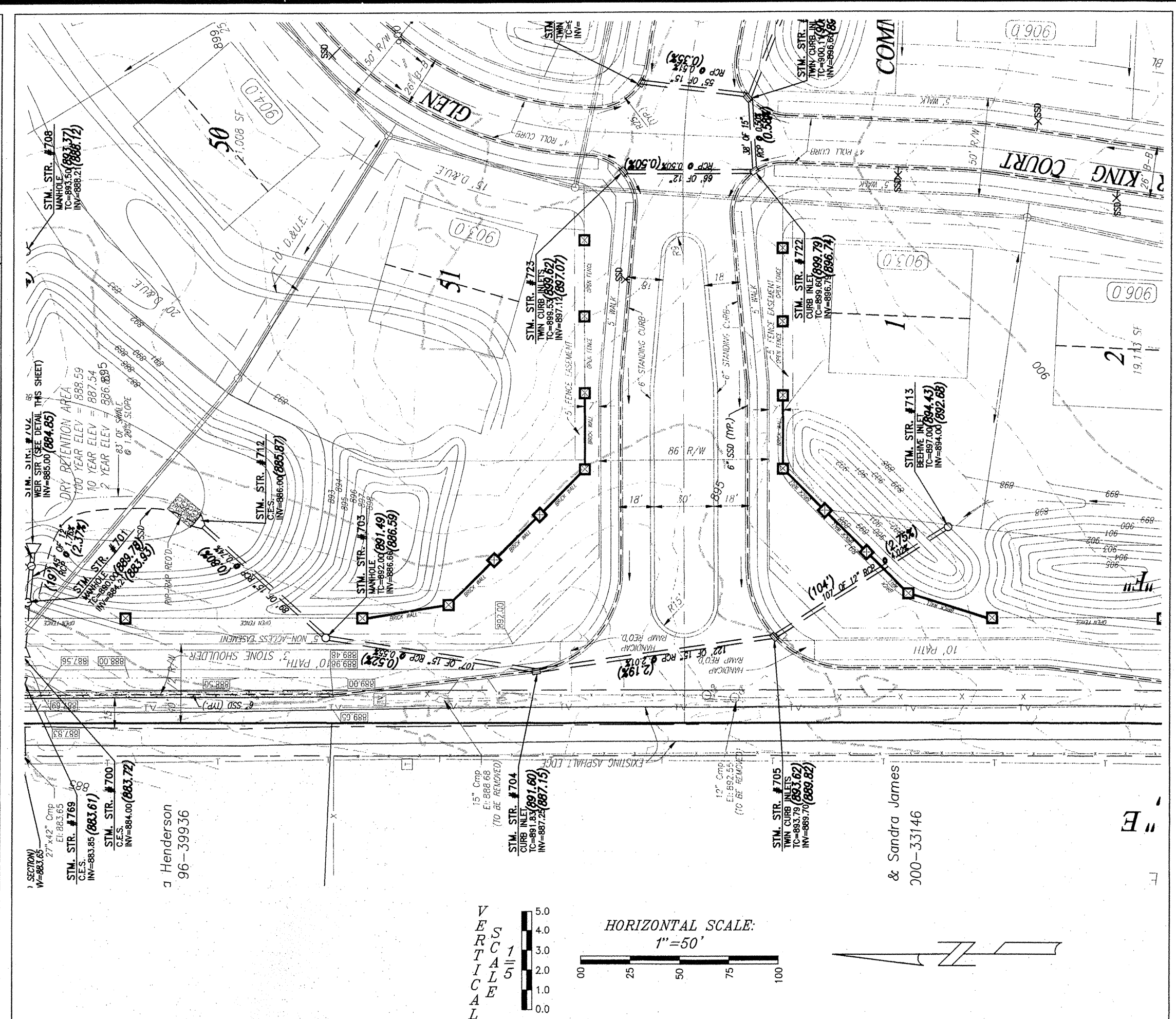
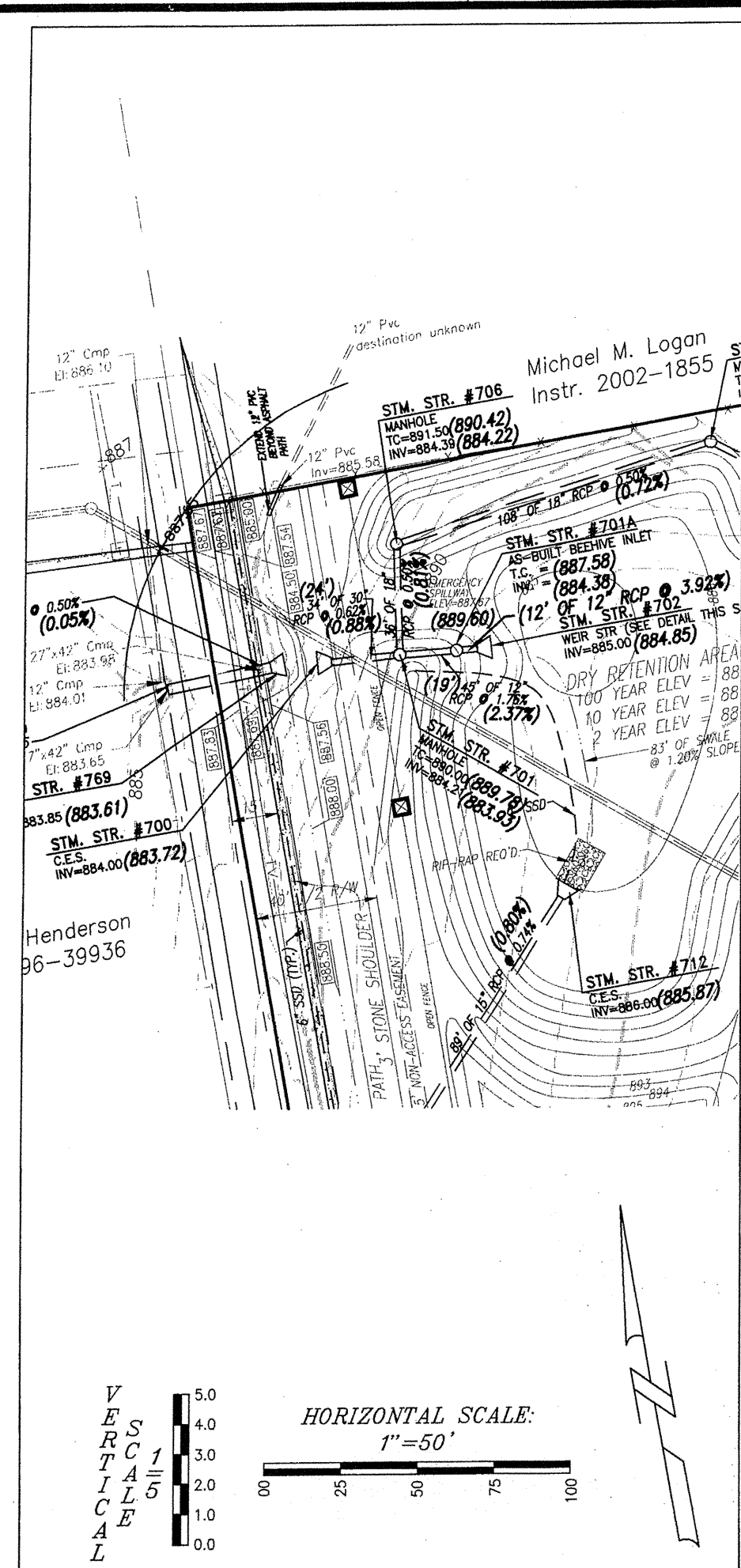
PREPARED FOR:
GLEN OAKS SUBDIVISION
Langston Development Company, Inc. Carmel, Indiana

STORM PLAN & PROFILE SHEET

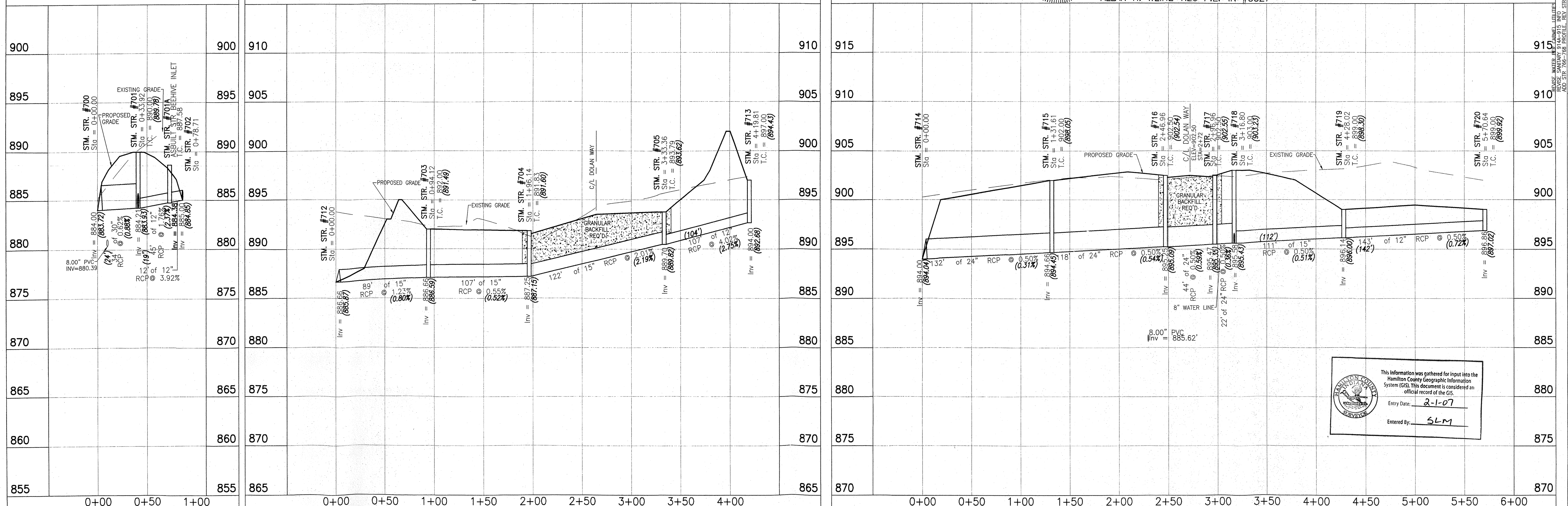
SHEET NO. **11**

PROJECT NO. **W03-0984**

LOCATION: H:\2003\W030984\Drawn\030984-STM.dwg
DATE: 2/1/07
PLOT: 2/1/07 11:48am
PLOT BY: carter



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 1-4-06
 ALLAN H. WEIHE-REG P.E.-IN #8827



NOTE: ALL CASTINGS SHOULD BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY".

STORM SEWERS
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 *The contractor shall field check each section of storm pipe as it is being installed to ensure compliance with the design plans.

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: 2-1-07
 Entered By: SLM

WEIHE ENGINEERS, INC.
 1655 NORTH COLLEGE AVENUE
 HAMILTON COUNTY, INDIANA 46011
 (317) 846-6611 FAX (317) 843-0546
 TOLL-FREE (800) 452-6408

ALLAN H. WEIHE
 REGISTERED LAND SURVEYOR
 REGISTERED LAND SURVEYOR
 PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

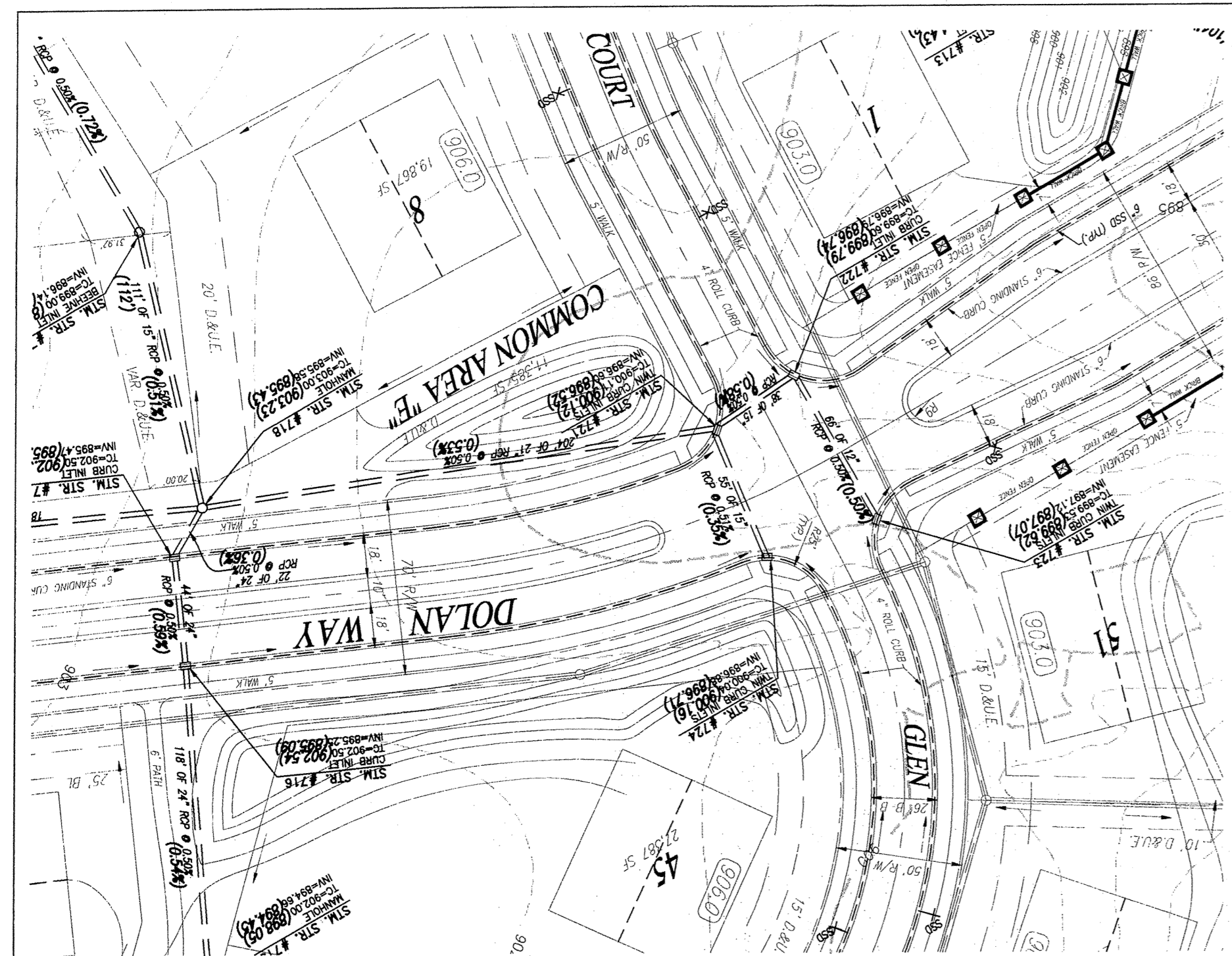
PROJECT NO. W03-0984
 DWG. NAME: 030984_Splitting
 FIELD BY:
 DRAWN BY:
 CHECKED BY:
 DATE: 10/18/2004

ALLAN H. WEIHE
 REGISTERED
 No. 8827
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 ALLAN H. WEIHE P.E. 8827

GLEN OAKS SUBDIVISION
 Langston Development Company, Inc. Carmel, Indiana
STORM PLAN & PROFILE SHEET
 Part of the E 1/2 of the NW 1/4 of Sec. 30-T38N-R3E in Hamilton County, Indiana

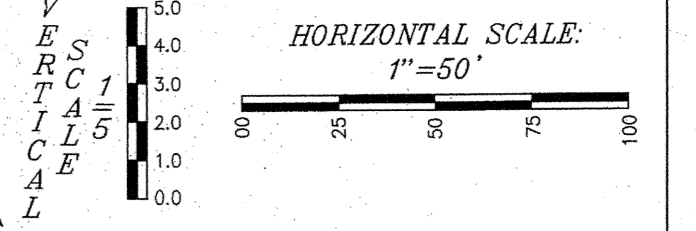
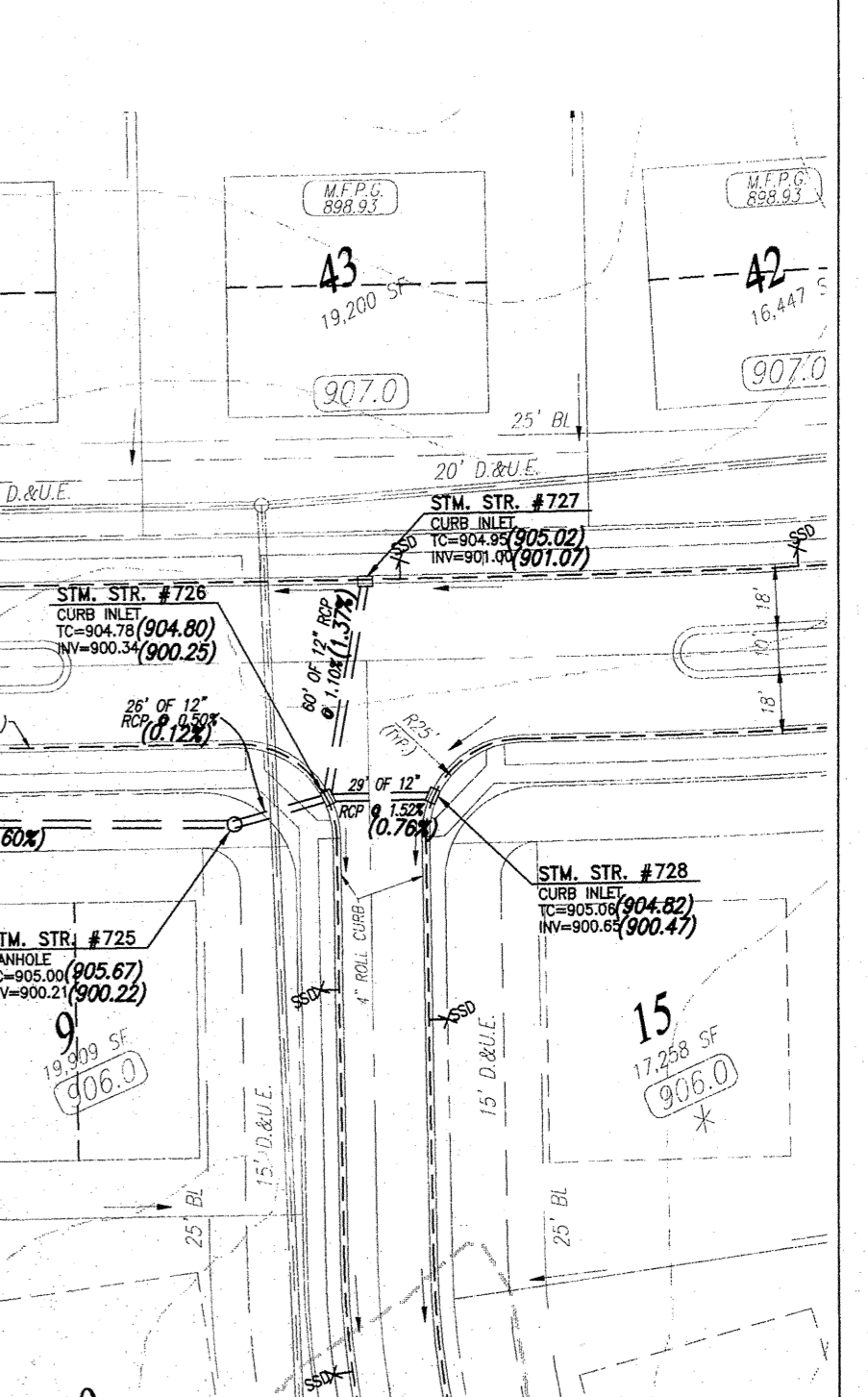
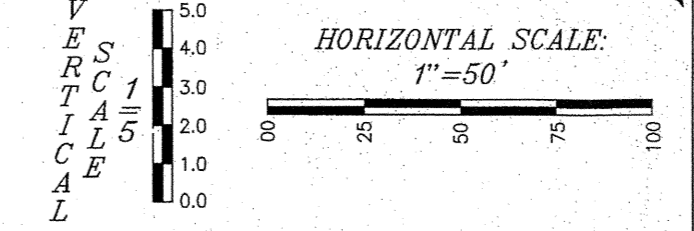
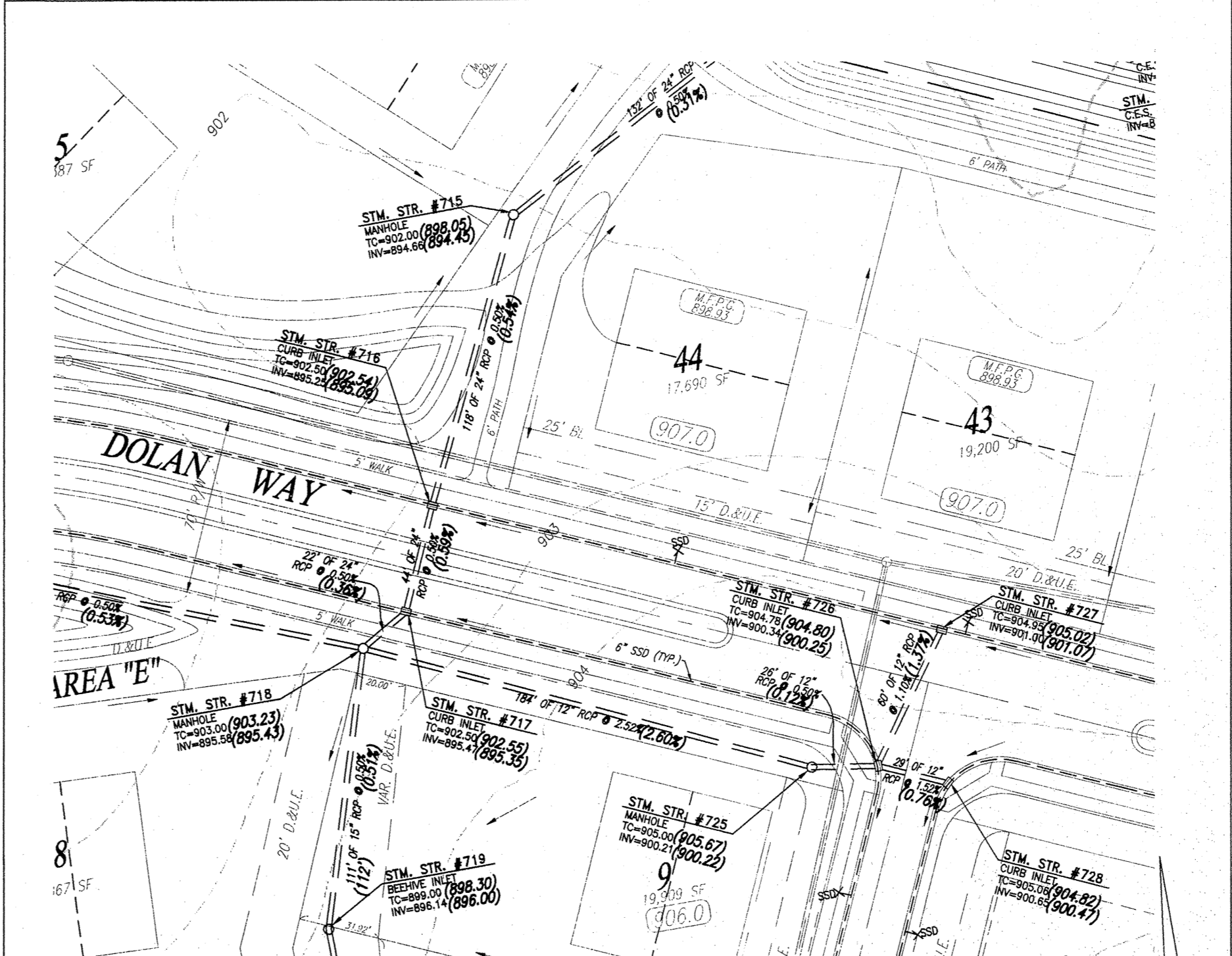
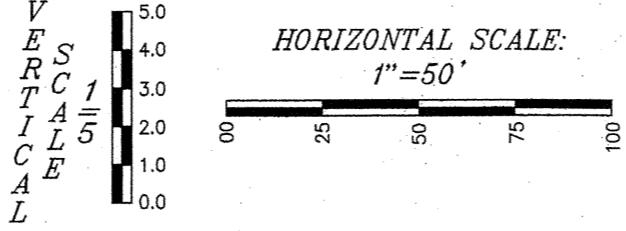
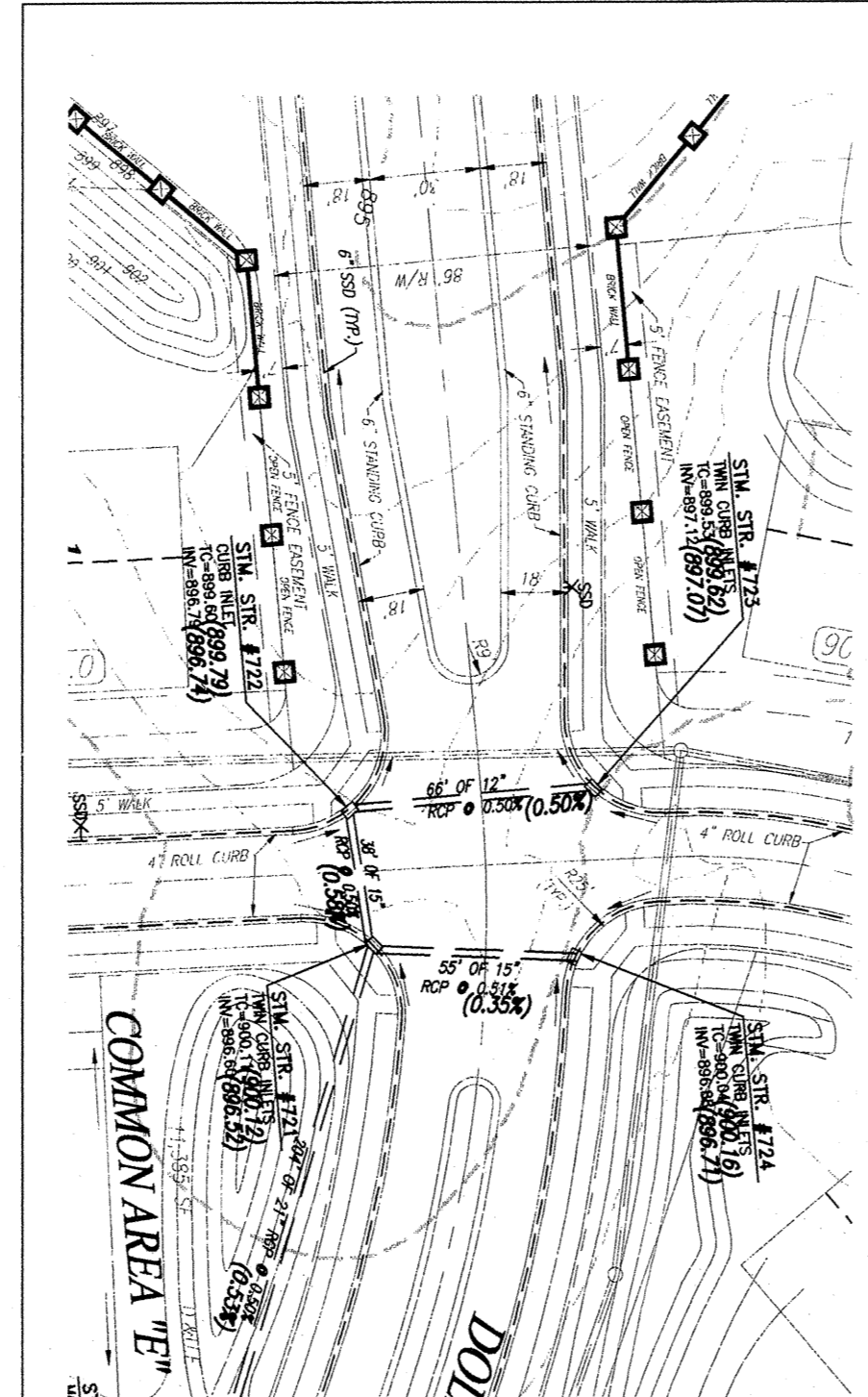
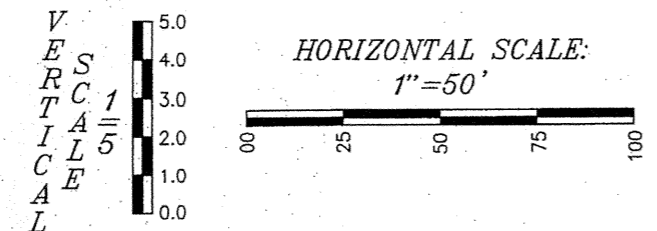
PREPARED FOR:
 SHEET NO. **12**
 PROJECT NO. **W03-0984**

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 PLOTTED BY: cerner
 DATE: 10/18/2004 2:24pm

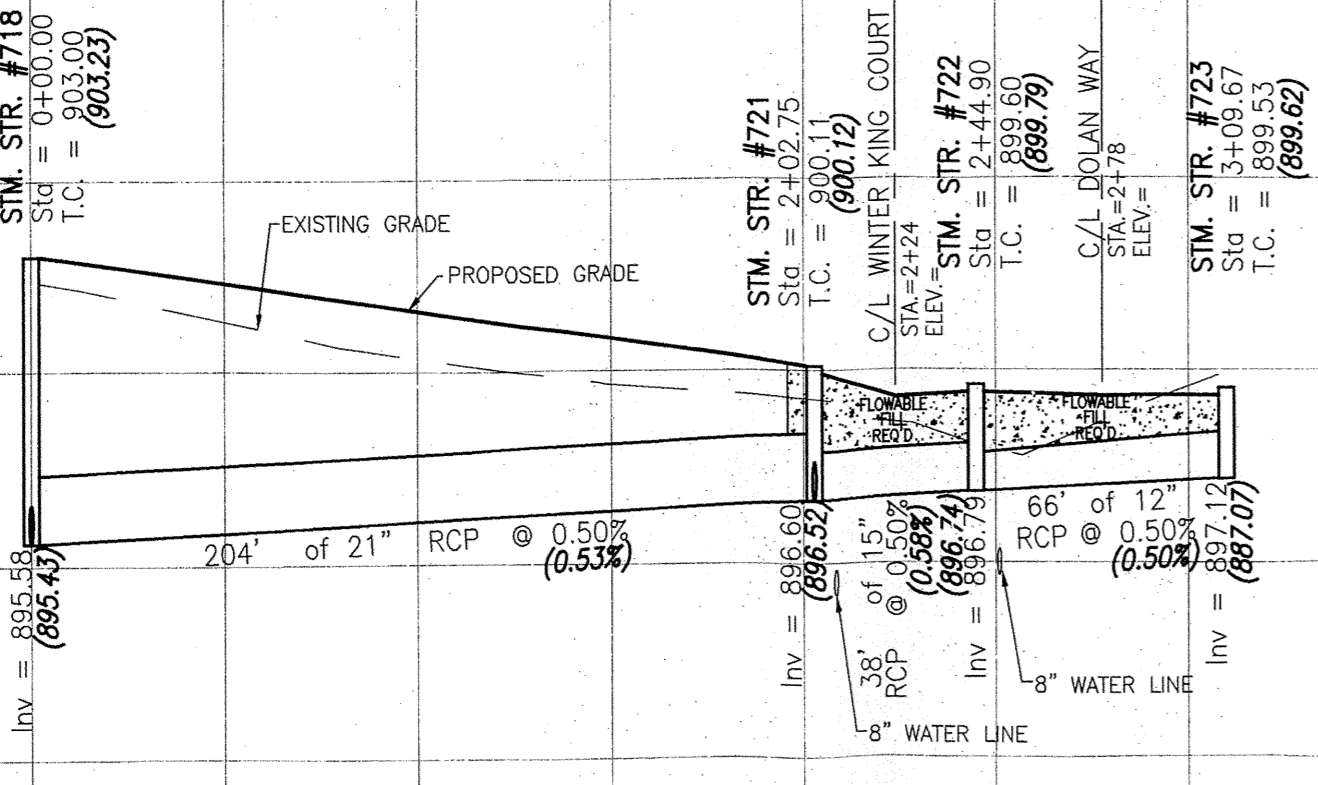


RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
1-4-06

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
No. 8827
STATE OF INDIANA
PROFESSIONAL ENGINEER

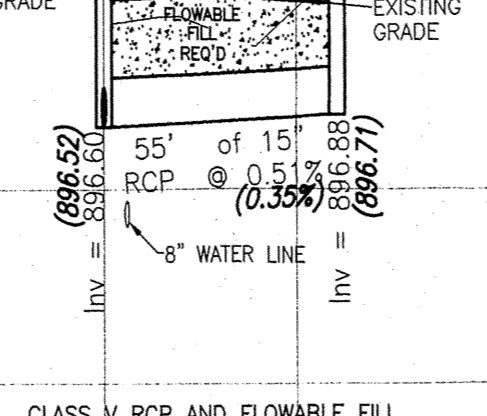


915		915
910		910
905		905
900		900
895		895
890		890
885		885
880		880
875		875
870		870



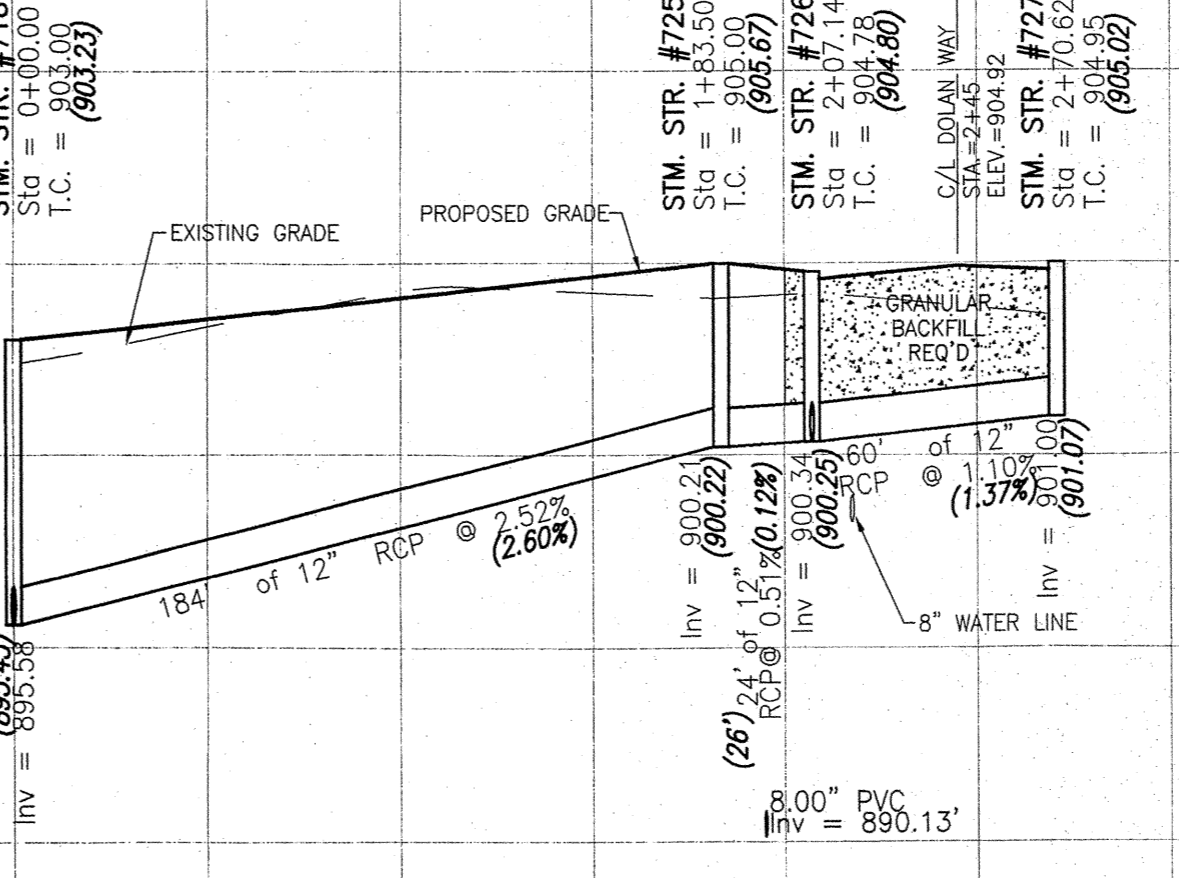
* NOTE *
PIPES BETWEEN STORM
STRUCTURE NUMBERS
721-722-723-724 ARE
CLASS V RCP & FLOWABLE FILL

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910		910
905		905
900		900
895		895
890		890
885		885
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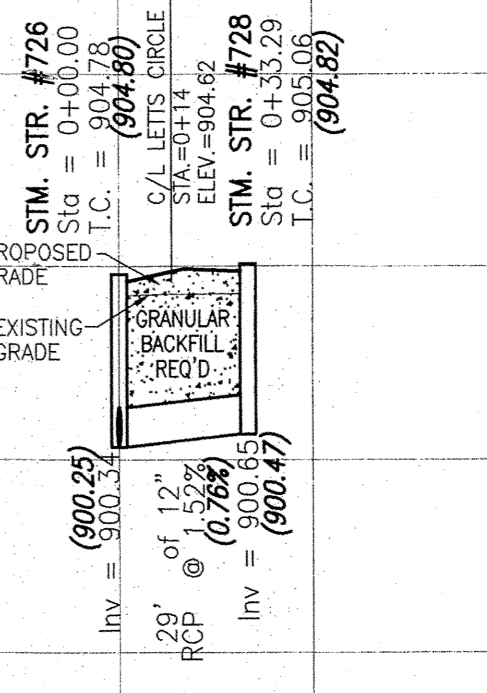
* NOTE *
PIPES BETWEEN STORM
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721-722-723-724 ARE
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905		905
900		900
895		895
890		890
885		885
880		880
875		875
870		870



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Hamilton County Geographic Information
System (GIS). This document is considered an
official record of the GIS.
Entry Date: 2-1-07
Entered By: SLM

920		920
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910		910
905		905
900		900
895		895
890		890
885		885
880		880
875		875



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WASTE--DRAINS TO WATERWAY".

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INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6408

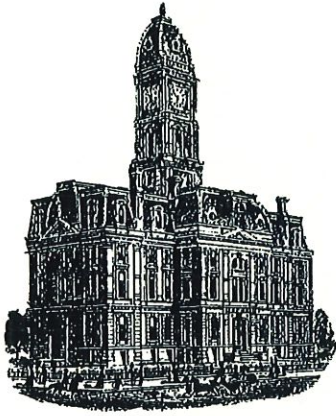
PROJECT NO.: W03-0984
DRAWN BY: TJS
CHECKED BY: TJS
DATE: 10/18/2004

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
No. 8827
STATE OF INDIANA
PROFESSIONAL ENGINEER

GLEN OAKS SUBDIVISION
Langston Development Company, Inc Carmel, Indiana
STORM PLAN & PROFILE SHEET
Part of the E 1/2 of the NW 1/4 of Sec. 30-7180-F&E in Hamilton County, Indiana

PREPARED FOR:
SHEET NO. **13**
PROJECT NO. W03-0984

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



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

Map Correction-Field Verification

Drain Number: 348

Drain Length: 13,684

Drain Name: Bellewood – Glen Oaks Arm

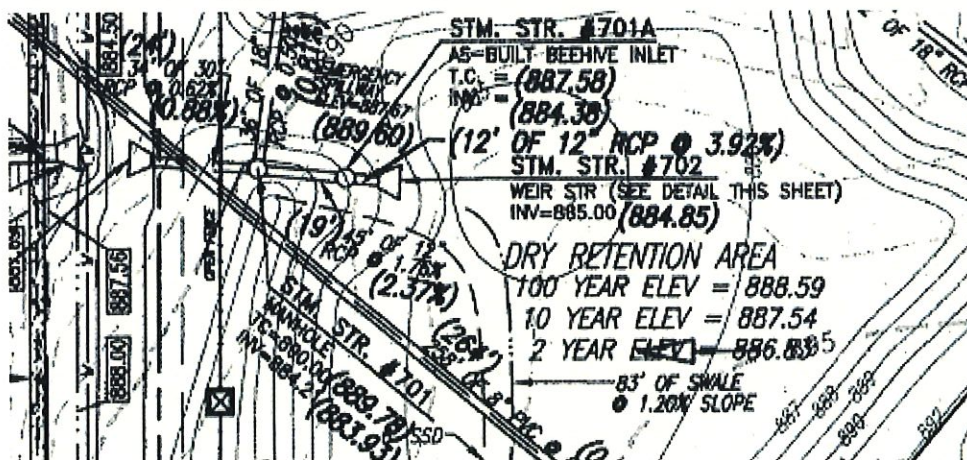
Change + / - : -134

Date: 02-10-2017

New Length: 13,570

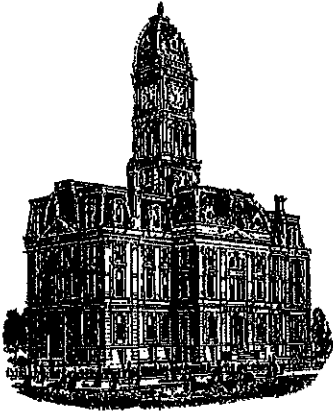
Verified By: SLM

Notes & Sketch: Str. 701A to 701 was incorrectly reported. This drain segment consists of 19' of 12" RCP. Also the 12" RCP was incorrectly tallied on the final report -The correct total of 12" RCP is now 1555 feet. The 18" RCP was incorrect as well. It should be 1519 feet. The 30" RCP is now 61 feet – as the above mentioned segment was reported as 30" RCP.



Suzanne L. Mills

Suzanne L. Mills
GIS Specialist



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Map Correction-Field Verification

Drain Number: 348 Bellewood Drain

Drain Length: 13,570

Drain Name: Glen Oaks

Change + / -: 9

Date: 12-17-2019

New Length: 13,579

Verified By: SAB, BRK (WO-2019-00252)

Notes & Sketch: SEE ASBUILTS

A 15" Stub pipe was removed from existing inlet structure #746 and 9 feet of 21" RCP was placed upstream of the inlet. Also added onto the 21" RCP was a concrete endsection with animal guard.

Suzanne L. Mills
GIS Specialist

HAMILTON COUNTY SURVEYOR'S OFFICE

"AS-BUILT" RECORD DRAWING BELLEWOOD DRAIN, GLEN OAKS ARM

END SECTION
INV.= 895.18
(LOOKING NORTHWEST)



EX. INLET (N) RIM= 897.35
(NW) 21" Ø RCP INV= 894.02
(LOOKING NORTH)

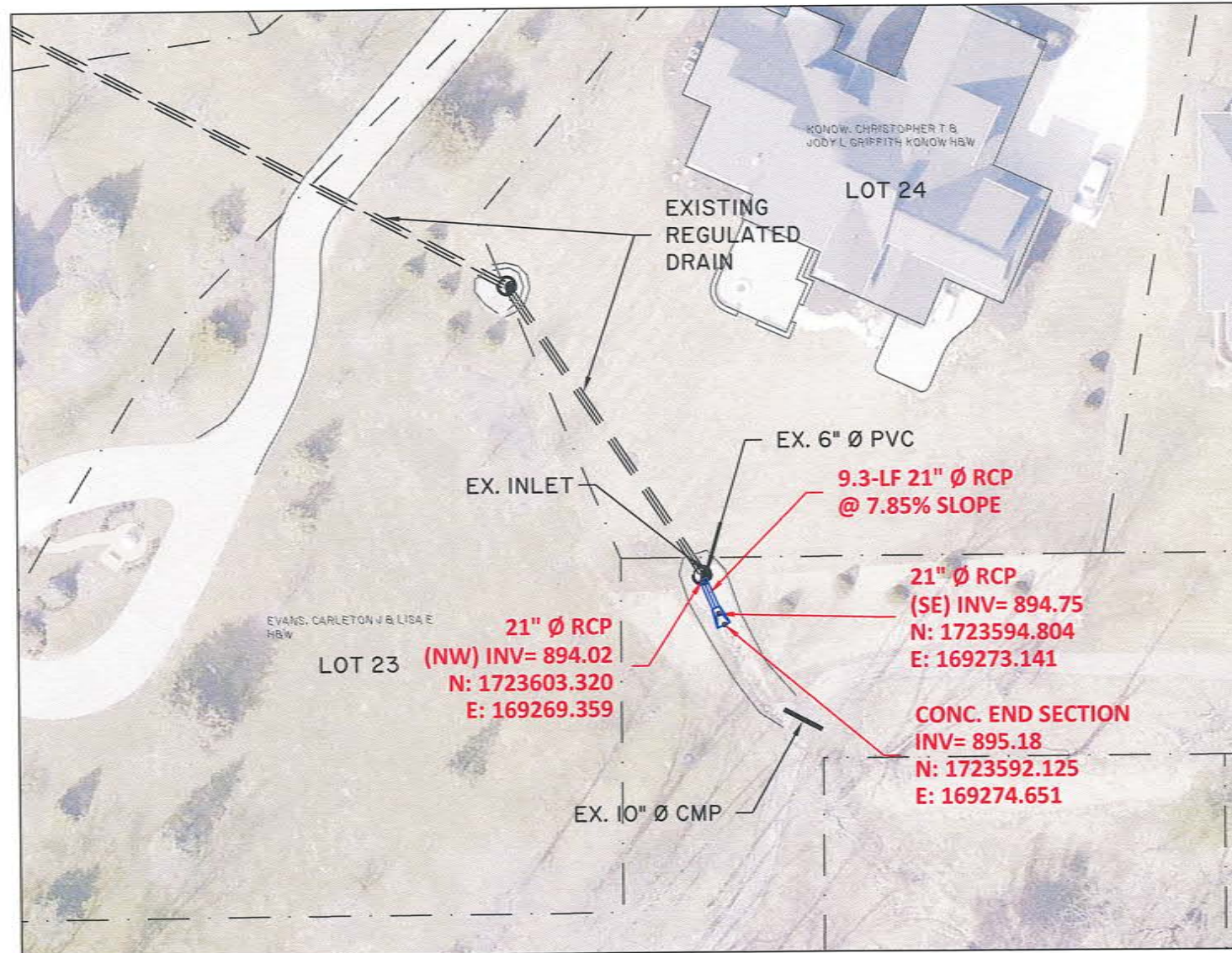


SCALE: 1" = 40'

F.B. #12, PAGES 14-15
DRAWN BY: REUBEN Q. ARVIN, SI

DATUM


THE AS-BUILT SURVEY USED THE FOLLOWING DATUM:
HORIZONTAL DATUM: NAD 1983 (CONUS) INDIANA EAST 1301
VERTICAL DATUM: (NAVD 88) (GEOID 12A)



"AS-BUILT" CERTIFICATION

"AS BUILT" INFORMATION COLLECTED BY HAMILTON COUNTY SURVEYOR'S OFFICE. I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, A TRUE AND CORRECT REPRESENTATION OF THE LOCATIONS AND ELEVATIONS OF THE "AS-BUILT" REGULATED DRAIN IMPROVEMENTS, INFORMATION OBTAINED BY FIELD SURVEY ON 10/31/2019; FIELD BOOK #12 PAGES 14-15.

CERTIFIED BY:


BRIAN K. RAYL, PS
PROFESSIONAL SURVEYOR
INDIANA LICENSE NO. 20100070



DATE: DECEMBER 4, 2019

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR SURVEYOR LOCATION REPORT



HAMILTON COUNTY, INDIANA

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