

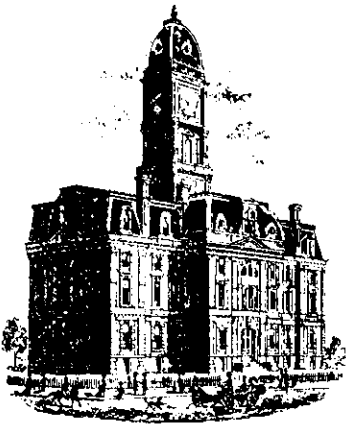


Drain: OVERMAN - HARVEY Drain #: 32
Improvement/Arm: VILLAGE OF MT. CARMEL - SECTION 10
Operator: J. LIVINGSTON Date: 5-18-04
Drain Classification: Urban/Rural Year Installed: 2003

GIS Drain Input Checklist

- Pull Source Documents for Scanning 
- Digitize & Attribute Tile Drains _____
- Digitize & Attribute Storm Drains _____
- Digitize & Attribute SSD _____
- Digitize & Attribute Open Ditch _____
- Stamp Plans _____
- Sum drain lengths & Validate _____
- Enter Improvements into Posse 
- Enter Drain Age into Posse _____
- Sum drain length for Watershed in Posse _____
- Check Database entries for errors _____



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

To: Hamilton County Drainage Board

June 23, 2003

Re: Village of Mount Carmel, Section 10 Arm, Overman Harvey Drain

Attached is a petition filed by Elliott Wright Group along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Village of Mount Carmel, Section 10 Arm, Overman Harvey 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 | 850 ft | 18" RCP | 46 ft | 30" RCP | 747 ft |
| 12" RCP | 890 ft | 21" RCP | 122 ft | | |
| 15" RCP | 242 ft | 24" RCP | 348 ft | | |

The total length of the drain will be 3,245 feet.

The retention pond (lake) located in Common Area "A" is to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond (lake) will be the responsibility of the Homeowners Association. The Board will however retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under curbs. Only the main SSD lines which are located within the right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$3.00 per acre for common areas and platted lots, \$3.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$240.00.

The petitioner has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties, which are in the form of a Performance Bond/Letter of Credit are as follows:

Agent: Bond Safeguard Insurance Company
Date: April 25, 2003
Number: 5004799
For: Storm Drain
Amount: \$62,973.80

Parcels assessed for this drain may be assessed for the Wheeler & Beals or Cool 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. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Village of Mount Carmel Section 10 as recorded in the office of the Hamilton County Recorder.

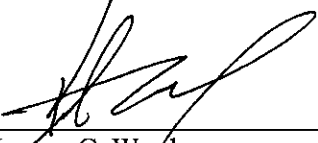
Also to be included are portions of the storm sewer system installed with the improvements of 146th Street. Village of Mount Carmel Section 10 utilizes this system as its outlet. This system is shown on Sheets 6 and 7 of the plans prepared by American Consulting Engineers, Inc. for Hamilton County. This is for project HCHD PR-97-0006 and the plans are file stamped March 18, 1999. This portion of the drain shall consist of those structures and portions of drain between the following structures:

Str. 37 to 33; Str. 36 to 34; Str. 34A to 34; Str. 35 to 34; Str. 34 to 32; Str. 31 to 32; Str. 30 to 32; Str. 32 to 33; Str. 27 to 28; Str. 28 to 29; Str. 33 to 29; Str. 29 to 24; Str. 26 to 23; Str. 25 to 22; Str. 22 to 23; Str. 23 to 24; Str. 24 to 21; Str. 15 to 16; Str. 16 to 17; Str. 17 to Outlet.

Structure 21 connects the system with the existing regulated drain which was constructed as Village Farms Section 18 Arm to the Overman-Harvey Drain. This portion of the system is a 30" RCP which outlets into the lake for Village Farms.

Also to be a portion of the drain are the pair of inlets and pipe sections installed at Adios Pass along the south right of way for 146th Street in the Village of Mount Carmel Section 8. This is the portion between Str. 12 to Str. 13 and Str. 13 to Str. 14.

I recommend the Board set a hearing for this proposed drain for July 28, 2003.



Kerton C. Ward
Hamilton County Surveyor

KCW/llm

HCDB-2003-00031

SUBDIVISION PERFORMANCE BOND

Bond # 5004799

KNOW ALL MEN BY THESE PRESENTS, that we Crossmark Construction, Inc. and Elliott Wright Group, 599 Industrial Drive, Suite 318, Carmel, IN 46032 as Principal, and Bond Safeguard Insurance Company, 1919 S. Highland Avenue, Suite 300, Bldg. A, Lombard, IL 60148

authorized to do business in the State of Indiana, as Surety are held firmly bound unto Hamilton County Surveyor, One Hamilton Square, Suite 188, Noblesville, IN 46060 as Oblige, in the penal sum of Sixty Two Thousand Nine Hundred Seventy Three and 80/100 (\$ 62,973.80)

for the payment of which sum well and truly to be made, we bind ourselves, our heirs, administrators, executors, successors and assigns, jointly and severally firmly by these present;

WHEREAS, the above bounden Principal has been granted approval by the above named Oblige for village of Mount Carmel, Section 10, Storm Drainage

NOW, THEREFORE, the condition of the obligation is such, that if the said Principal shall complete the above improvements in accordance with the plans and specifications prepared by _____, and shall indemnify and save harmless the Oblige from all costs and damages which it may suffer by reason of failure to do so, and fully reimburse and repay Oblige any outlay and expense which it may incur in making good any such default, then this obligation shall be null and void, otherwise to remain in full force and effect.

THE FOREGOING OBLIGATION, however, is limited by the following express conditions, the performance of which shall be a condition precedent to any rights of claims or recovery hereunder:

1. Upon the discovery by the Oblige, or by the Oblige's agent or representative, of any act or omission that shall or might involve a loss hereunder, the Oblige shall endeavor to give written notice thereof with the fullest information obtainable at the time to the Surety.
2. Legal proceedings for recovery hereunder may not be brought unless begun within twelve (12) months from the date of the discovery of the act or omission of the Principal on account of which claim is made.
3. The Principal shall be made a party to any suit or action for recovery hereunder, and no judgment shall be rendered against the Surety in excess of the penalty of this instrument.
4. No right of action shall accrue hereunder to or for the use or benefit of anyone other than the Oblige, and the Oblige's right hereunder may not be assigned without the written consent of the Surety.

SIGNED, SEALED AND DATED this 25th Day of April, 2003
Crossmark Construction, Inc. and Elliott Wright Group

Bond Safeguard Insurance Company

By: Kayser & Lucidan
By: [Signature]

By: Deborah M. Roth
Deborah M. Roth, Attorney-in-Fact


CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Village of Mt. Carmel
Tenth Section

I hereby certify that:

1. I am a Registered ~~Land Surveyor~~ Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.

Signature:  Date: 12-15-03

Type or Print Name: James Shinneman

Business Address: Weihe Engineers, Inc.

10505 N. college Ave., Indianapolis, IN 46280

Telephone Number: 317-846-6611

SEAL

INDIANA REGISTRATION NUMBER

10200392



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

To: Hamilton County Drainage Board

October 14, 2005

**Re: Overman-Harvey Drain: Village of Mt.
Carmel Section 10 & 146th St. Offsite**

Attached are as-builts, certificate of completion & compliance, and other information for Village of Mt. Carmel. 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 June 23, 2003. The report was approved by the Board at the hearing held July 28, 2003. (See Drainage Board Minutes Book 7, Pages 119-121)
The changes are as follows:

| Structure: | Length: | Size | Material: | Up Invert: | Dn Invert | Grade: |
|------------|---------|------|-----------|---------------|--------------|--------|
| 13-12 | 221 | 12 | RCP | 881.87 | 881.1 | 0.4 |
| 12-11 | 148 | 12 | RCP | 881.1 | 880.43 | 0.45 |
| 11-10 | 143 | 15 | RCP | 880.43 | 879.87 | 0.39 |
| 10-9 | 48 | 15 | RCP | 879.87 | 879.5 | 0.77 |
| 8-7 | 266 | 15 | RCP | 880.87 | 880.21 | 0.25 |
| 7-6 | 24 | 15 | RCP | 880.21 | 880.01 | 0.83 |
| 6-5 | 56 | 15 | RCP | 880.01 | 879.55 | 0.82 |
| 3-2 | 122 | 21 | RCP | 879.83 | 879.43 | 0.33 |
| 2-4 | 51 | 15 | RCP | 879.43 | 879.42 | 0.02 |
| 2-1 | 250 | 24 | RCP | 879.43 | 878.4 | 0.41 |
| 15-14 | 24 | 12 | RCP | 882.23 | 881.33 | 0.38 |
| 14-11 | 23 | 12 | RCP | 881.33 | 880.43 | 3.91 |
| 33-29 | 26 | 30 | RCP | 876.8 | 876.72 | |
| 29-24 | 459 | 30 | RCP | 876.62 | 875.11 | |
| 24-503* | 262 | 30 | RCP | 875 | 874.16 | |
| 32-33 | 94 | 30 | RCP | | | |
| 27-28 | 66 | 12 | RCP | | | |
| 29-29 | 9 | 12 | RCP | | | |
| 37-33 | 75 | 12 | RCP | | | |
| 36-34 | 35 | 12 | RCP | | | |
| 34-32 | 56 | 18 | RCP | | | |
| 35-34 | 7 | 12 | RCP | | | |

| | | | | | | |
|-----------------------|----|----|-----|--|--|--|
| 1-32 | 15 | 24 | RCP | | | |
| 15-16 | 65 | 12 | RCP | | | |
| 16-17 | 63 | 12 | RCP | | | |
| 17-End of Pipe | 16 | 12 | RCP | | | |
| 25-22 | 15 | 12 | RCP | | | |
| 22-23 | 68 | 12 | RCP | | | |
| 26-23 | 17 | 12 | RCP | | | |
| 23-24 | 13 | 12 | RCP | | | |
| * Was structure 21 | | | | | | |

6" SSD

Streets:

| | |
|-----------------|-------------|
| John Paul Way | 522.5 |
| TotalX2: | <u>1045</u> |

RCP Pipe Totals:

| | |
|---------------|-------------|
| 12 | 865 |
| 15 | 588 |
| 18 | 56 |
| 21 | 122 |
| 24 | 265 |
| 30 | 841 |
| Total: | <u>2737</u> |

The length of the drain due to the changes described above is now **3,782 feet**. This footage is for Village of Mt. Carmel Section 10 and the offsite constructed with 146th St. It should be noted that this does not include those facilities constructed across Adios Pass (Village of Mt. Carmel Sec. 8). These structures (12,13,14) were addressed in the final report given to the Board for 146th St. dated June 13, 2005. The attached plans for 146th Street do reflect all the information that is listed above. This information was obtained through a field investigation.

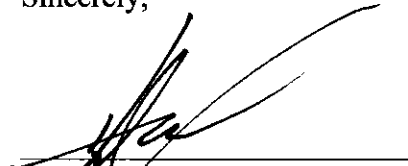
The non-enforcement was approved by the Board at its meeting on July 28, 2003 and recorded under instrument #200300093799.

The following sureties were guaranteed by Bond Safeguard Insurance Co and released by the Board on its September 12, 2005 meeting.

Bond-LC No: 5004799
Insured For: Storm Sewers
Amount: \$62,973.80
Issue Date: April 25, 2003

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor


CONSTRUCTION PLANS FOR VILLAGE OF MOUNT CARMEL TENTH SECTION VILLAGE DRIVE NORTH CARMEL, INDIANA

PLANS PREPARED FOR:

ELLIOTT WRIGHT GROUP
597 INDUSTRIAL DRIVE, SUITE 104
CARMEL, INDIANA 46032
TELEPHONE: (317) 846-3798
FAX: (317) 846-3796
CONTACT PERSON: CHUCK WRIGHT

PLANS PREPARED BY:

WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, IN 46280
TELEPHONE: (317) 846-6611
FAX: (317) 843-0546
CONTACT PERSON: DARRELL PHILLIPS

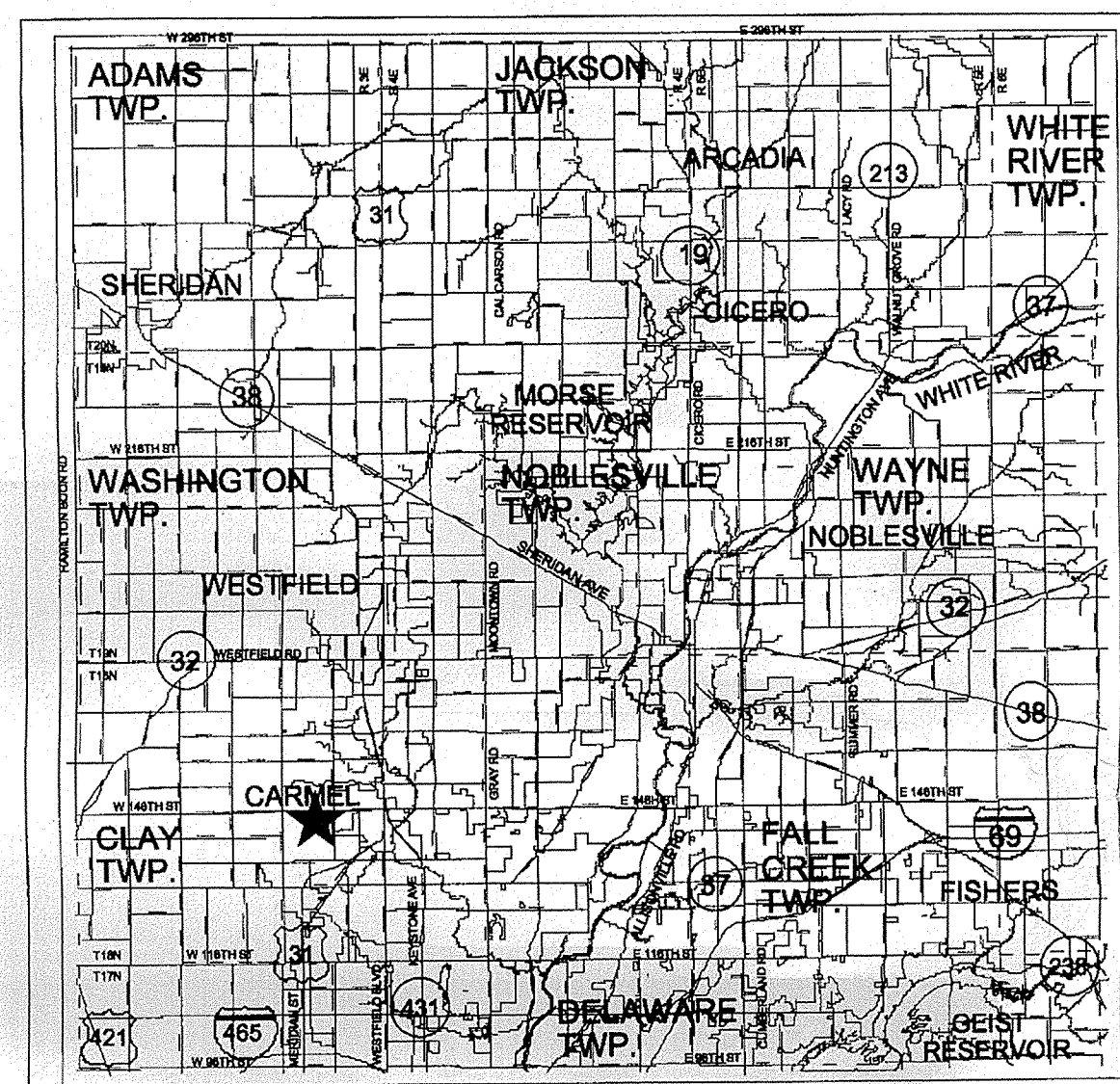


This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-19-05
Entered by: SLM

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|-------------------------------------|
| 1 | TITLE SHEET |
| 2 | EXISTING CONDITIONS/DEMOLITION PLAN |
| 3 | SITE DEVELOPMENT PLAN |
| 4 | STREET PLAN AND PROFILE |
| 5 | STORM PLAN AND PROFILE |
| 6 | STORM PLAN AND PROFILE |
| 7 | SANITARY PLAN AND PROFILE |
| 8 | EROSION CONTROL PLAN |
| 9 | EROSION CONTROL DETAIL SHEET |
| 10 | SITE WATER PLAN |
| 11 | SITE CONSTRUCTION DETAILS |
| 12 | SPECIFICATIONS SHEET |



AREA MAP
★ PROJECT LOCATION



SITE LOCATION MAP
★ PROJECT LOCATION

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

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INDIANA UNDERGROUND PROTECTION SERVICE, INC.

INDIANA STATE DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS LATEST EDITION TO BE
USED WITH THESE PLANS.

BENCHMARK

RAILROAD SPIKE IN THE SOUTH SIDE OF A POWER POLE PER AMERICAN CONSULTING ENGINEERS SURVEY CONTROL PLAT FOR 146TH STREET (JOB 97-614). (TBM #28)
ELEVATION = 884.33 (NAVD 1988)

TEMPORARY BENCHMARK

THE NORTHWEST BASE BOLT ON A LIGHT STANDARD ON THE EAST SIDE OF AN ASPHALT DRIVE AT OUR LADY OF MOUNT CARMEL CATHOLIC CHURCH, BEING DIRECTLY EAST OF THE BUILDING, AND APPROXIMATELY 20 FEET SOUTH OF A 21" MAPLE TREE. (ESTABLISHED IN WEIHE ENGINEERS, INC. JOB W00-895)
ELEVATION = 883.60

GENERAL NOTES:

- 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.
- 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.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- 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.
- IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- THE DESCRIBED REAL ESTATE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE AS PLOTTED BY SCALE ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 180081 0207 F, DATED FEBRUARY 19, 2003.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- WETLANDS ARE NOT SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, CARMEL, IND. NATIONAL WETLANDS INVENTORY MAP DATED 1990.



REVISIONS

| SHEET NO. | DESCRIPTION | DATE |
|--------------|--|----------|
| 1,3,5,6,7,10 | STORM SEWER, SANITARY SEWER & WATER LINE AS-BUILTS | 12/15/03 |

OPERATING AUTHORITIES:

INDIANA GAS COMPANY
POST OFFICE BOX 1700
NOBLESVILLE IN 46060
TELEPHONE: (317) 776-5597

OFFICE OF FIRE CHIEF
2 CIVIC SQUARE
INDIANAPOLIS, INDIANA 46220
TELEPHONE: (317) 571-2600

CARMEL POLICE DEPARTMENT
3 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 571-2500

HAMILTON CO. SHERIFF DEPARTMENT
18100 CUMBERLAND ROAD
INDIANAPOLIS, IN 46206-1595
TELEPHONE: (317) 773-1872

CARMEL COMMUNICATIONS DEPARTMENT
31 FIRST AVE. N.W.
CARMEL, IN 46032
TELEPHONE: (317) 571-2580

CARMEL/CLAY SCHOOLS
5201 EAST 131ST STREET
CARMEL, IN 46032
TELEPHONE: (317) 844-9961

OFFICE OF CITY ENGINEER
1 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 571-2414

CINERGY
1441 SOUTH GULFORD
CARMEL, IN 46032
TELEPHONE: (800) 521-2232

CARMEL CLAY PARKS & RECREATION
1 CIVIC SQUARE
CARMEL, IN 46032
TELEPHONE: (317) 848-7275

CITY OF CARMEL
WATER-WASTEWATER UTILITIES
130 FIRST AVE. S.W.
CARMEL, IN 46032
TELEPHONE: (317) 571-2648

CITY OF CARMEL
WATER-WASTEWATER UTILITIES
PAT RIGDON - SEWER INSPECTOR
130 FIRST AVE. S.W.
CARMEL, IN 46032
TELEPHONE: (317) 716-3943

HAMILTON COUNTY SURVEYOR
ONE HAMILTON COUNTY SQUARE, SUITE 146
NOBLESVILLE IN 46060
TELEPHONE: (317) 776-8495

HAMILTON COUNTY SOIL & WATER CONSERVATION DISTRICT
925 DIVISION STREET, ROOM 301
NOBLESVILLE IN 46060
TELEPHONE: (317) 773-1432

HAMILTON COUNTY HIGHWAY DEPARTMENT
1717 PLEASANT STREET
NOBLESVILLE IN 46060
TELEPHONE: (317) 773-7770

WEIHE ENGINEERS, INC.
10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE: (800) 432-6468

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

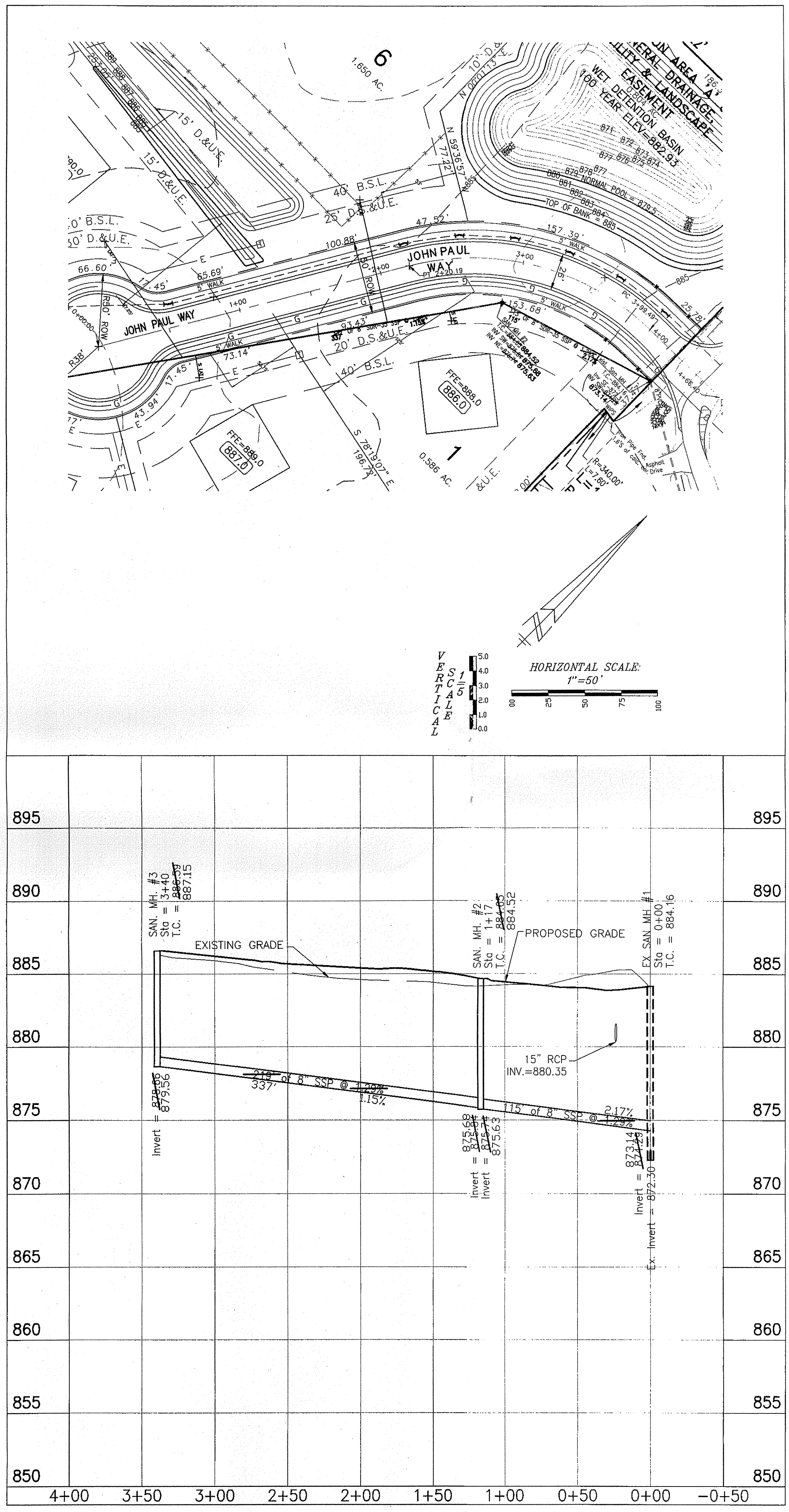
PROJECT NO.: W02-0740
DATE: 04/30/2003
DRAWN BY: JAS
CHECKED BY: JAS
FIELD BY: JAS
DESIGNED BY: JAS
DATE: 04/30/03
DRAWN BY: JAS
CHECKED BY: JAS
FIELD BY: JAS
DESIGNED BY: JAS

JAMES K. SHINNEMAN
REGISTERED
NO. 10200392
STATE OF INDIANA
PROFESSIONAL ENGINEER

PREPARED FOR:
**VILLAGE OF MOUNT CARMEL
TENTH SECTION**
ELLIOTT WRIGHT GROUP
TITLE SHEET
Part of the Worksheet 1/4 of Section 23, Township 18 North, Range 2 East, City Township, Hamilton County, Indiana

SHEET NO.
1
PROJECT NO.
W02-0740

LOCATED BY: [unclear] DATE: [unclear] DRAWING NO.: [unclear] SCALE: [unclear] SHEET NO.: [unclear] OF [unclear] SHEETS



NOTE:
ALL SANITARY LATERALS WITHIN THE RIGHT-OF-WAY ARE REQUIRED TO HAVE FULL DEPTH GRANULAR BACKFILL.

LATERAL LOCATION TABLE

| LOT # | NEAREST DOWNSTREAM MANHOLE | STATIONING |
|-------|----------------------------|------------|
| 1 | 2 | 36' 38" |
| 2 | 2 | 84' 39" |
| 3 | 2 | 209' 215" |
| 4 | 2 | 209' 225" |
| 5 | 2 | 223' 338" |
| 6 | 2 | 223' 338" |

AS-BUILT SANITARY LATERAL

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 8-19-05

Entered by: SLM

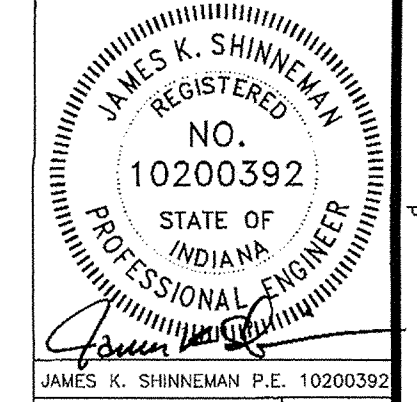
RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

WEIHE ENGINEERS, INC.

1005 NORTH COLLEGE AVENUE
MOUNTAIN VIEW, INDIANA 46041
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 552-6408

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

PROJECT NO. W02-0740
DATE: 04/20/2003

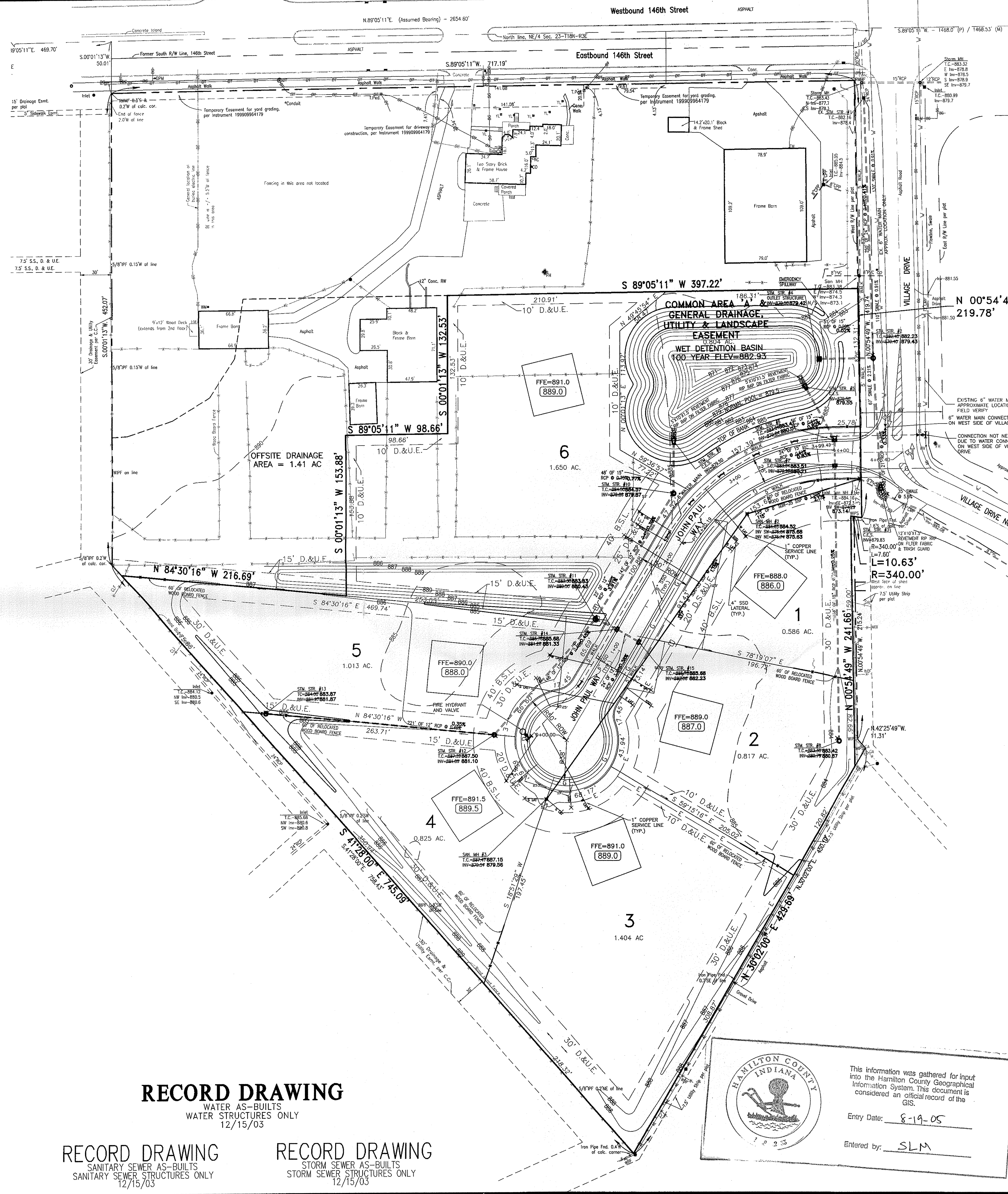


JAMES K. SHINNEMAN P.E. 10200392

VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRIGHT GROUP
SANITARY PLAN AND PROFILE
Part of the Record No. 14 of Section 25, Township 16 North, Range 3 East, City Township, Hamilton County, Indiana

PREPARED FOR: VILLAGE OF MOUNT CARMEL
SHEET NO. **7**
PROJECT NO. W02-0740

LOCATION: MOUNTAIN VIEW, INDIANA
 DRAWING NO. W02-0740
 DATE: 08/19/05
 DRAWN BY: SLM
 CHECKED BY: SLM
 PLOTTED BY: SLM



**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 or his affiliates shall immediately be repaired, to the satisfaction and direction of the City of Carmel Utility by the Contractor at his own expense.
- 2) Should the Contractor 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 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, the City of Carmel Utility will receive priority in scheduling.

**CITY OF CARMEL WATER UTILITY
Developer Installed Water Mains**

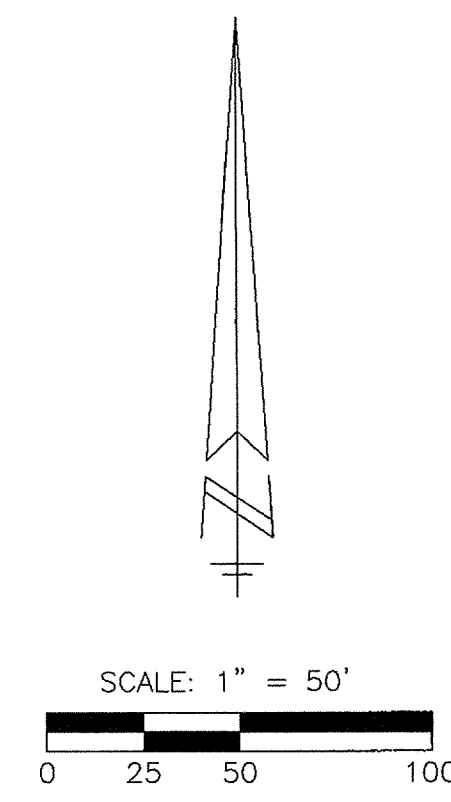
- 1) Contractors shall call City of Carmel Utility for an on-site pre-construction meeting before work begins. Contractor must have approved plans on-site and all materials to be used must be approved by a City of Carmel Utility inspector.
- 2) Contractor will allow inspection by City of Carmel Utility 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.

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.
- 4) Post-Caps or the equivalent are required on all water valve installations.

GENERAL UTILITY NOTES:

1. VERIFY LOCATION OF ALL PROPOSED UTILITIES (WATER, SANITARY, STORM, GAS, ELECTRIC, TELEPHONE AND CABLE) WITH RESPECTIVE UTILITY COMPANY OR GOVERNMENTAL AGENCY BEFORE BEGINNING ANY UNDERGROUND UTILITY INSTALLATIONS. COORDINATE ALL UNDERGROUND UTILITY INSTALLATIONS AND WORK BY RESPECTIVE UTILITY COMPANIES.
2. NOTIFY RESPECTIVE UTILITY COMPANY OR GOVERNMENTAL AGENCY FOR REQUIRED INSPECTIONS BEFORE BEGINNING WORK.



LEGEND

- A-A- Aerial Utility Lines
 - B-B- Buried Electric Lines
 - C-C- Buried Telephone Lines
 - D-D- Buried Gas Lines
 - Power Pole
 - ⊕ Power Pole with Transformer
 - ⊙ Guy Anchor
 - ⊙ Telephone Pedestal
 - ⊙ Telephone Manhole
 - ⊙ Electric Meter
 - ⊙ Electrical Transformer
 - ⊙ Gas Meter
 - ⊙ Gas Pipeline Marker
 - ⊙ Water Valve
 - ⊙ Water Meter
 - ⊙ Underdrain
 - ⊙ Sanitary Sewer Service
 - ⊙ Fire Hydrant
 - ⊙ Yard Light
 - ⊙ Mailbox
 - ⊙ Air Conditioner
 - ⊙ Cleanout
 - ⊙ Inlet
 - ⊙ Survey Control Point
 - ⊙ Right-of-Way Marker Found
 - ⊙ WIPPS = 5/8" Rebar with WEHE cap set B/14/02
 - ⊙ WIPF = 5/8" Rebar with WEHE cap found
 - ⊙ WBF = Wood Board Fence
 - ⊙ SRF = Split Rail Fence
 - ⊙ CLF = Chain-Link Fence
 - ⊙ C.C. = Certificate of Correction
- All fencing is wood board fence, unless otherwise noted.
Areas around existing buildings are not included.
- ⊙ AS-BUILT WATER MAIN LATERAL
 - ⊙ AS-BUILT SUB-SURFACE DRAIN
 - ⊙ AS-BUILT SANITARY LATERAL

WEIHE ENGINEERS, INC.
1065 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-4688

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

| DATE | REV. | PROJECT NO. | DWG. NAME | FIELD BY | DRAWN BY | CHECKED BY | DATE |
|----------|------|-------------|-----------|----------|----------|------------|------------|
| 01/21/03 | JAS | W02-0740 | AS-BUILT | JAS | JAS | JAS | 04/30/2003 |
| 03/20/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |
| 04/23/03 | JAS | | | JAS | JAS | JAS | |

REGISTERED PROFESSIONAL ENGINEER
NO. 10200392
STATE OF INDIANA
JAMES K. SHINNEMAN, P.E.
10200392

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

HAMILTON COUNTY INDIANA
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
Entry Date: 8-19-05
Entered by: SLM

OFFICE OF THE HAMILTON COUNTY SURVEYOR
DEBRIS GUARD

SIDE PROFILE

TOP VIEW

| Approx. Area | V-bar Size | No. of V-bars | H-bar Size | Bolt Size | Plate Size |
|--------------|------------|---------------|------------|-----------|------------|
| 18 | 1/2" | 3 | 3/4" | 1/2" | 5 |
| 24 | 5/8" | 4 | 3/4" | 1/2" | 7 |
| 30 | 5/8" | 4 | 3/4" | 1/2" | 7 1/2 |
| 36 | 3/4" | 4 | 1" | 1/2" | 10 1/2 |
| 42 | 3/4" | 4 | 1" | 3/4" | 11 |
| 48 | 3/4" | 4 | 1 1/2" | 3/4" | 12 |
| 54 | 3/4" | 4 | 1 1/2" | 3/4" | 12 |
| 60 | 3/4" | 5 | 1 1/2" | 3/4" | 14 |
| 72 | 3/4" | 5 | 1 1/2" | 3/4" | 14 |
| 84 | 3/4" | 6 | 1 1/2" | 3/4" | 16 |

Notes:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES & PIPES ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVANIZED
4. NO REBAR THROUGH PIPES WILL BE ALLOWED
5. DEBRIS GUARD SHALL BE REMOVABLE

HAMILTON COUNTY SURVEYOR'S OFFICE
APPROVED: KENNETH C. WARD, HAMILTON COUNTY SURVEYOR
DATE: 4/14/00
STANDARD PLAN D-12

NOTE: NO VALVES WILL BE PERMITTED UNDER PAVEMENT.

NOTE: ALL WATER LATERALS TO BE 1.0" K COPPER WITH STREET SIDE ANGLE VALVE

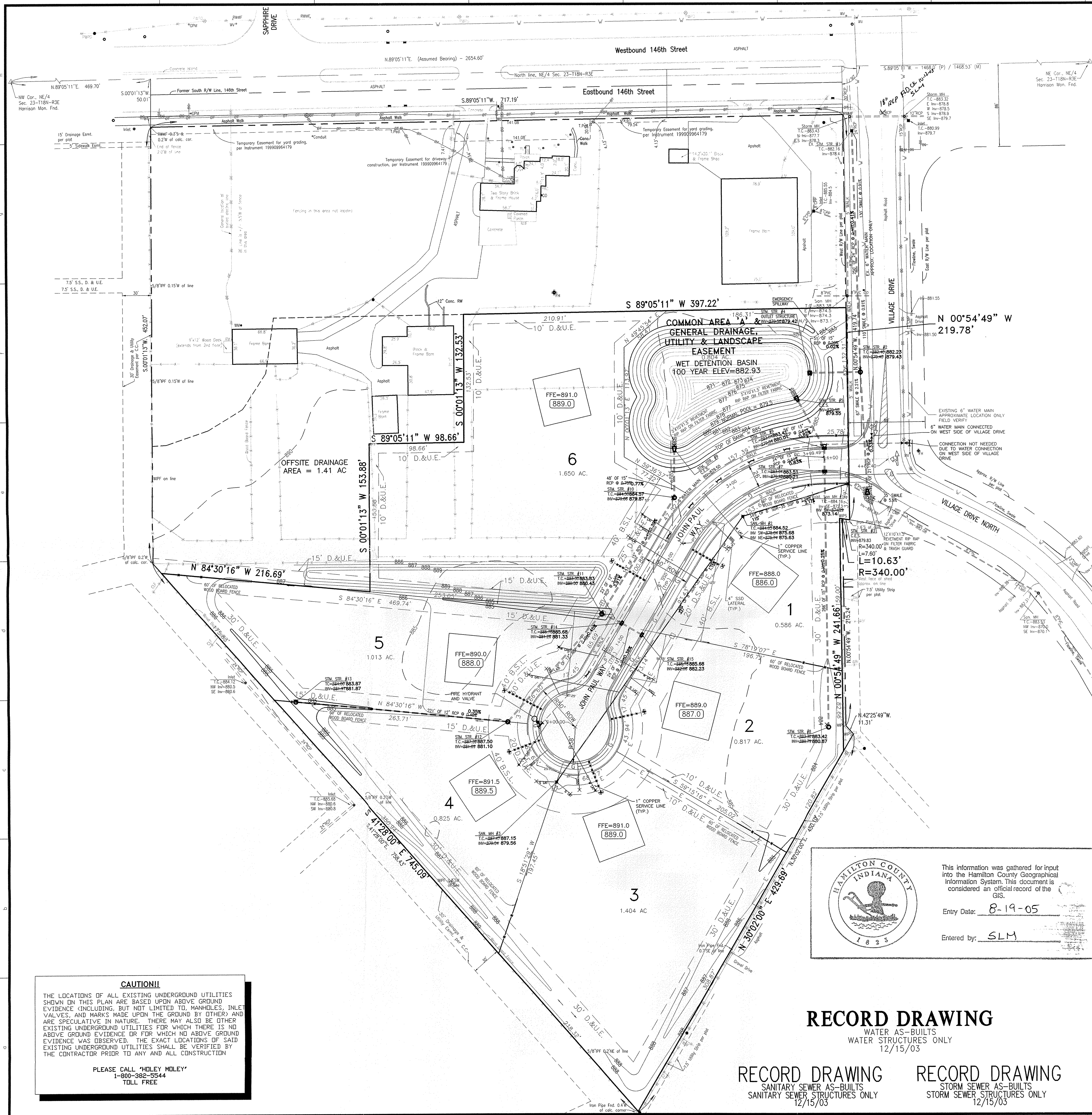
CAUTION!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHER) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

PLEASE CALL "HOLEY MOLEY"
1-800-382-5544
TOLL FREE

PREPARED FOR:
VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRIGHT GROUP
SITE UTILITY/WATER PLAN

SHEET NO. **10**
PROJECT NO. W02-0740

LOCATION: IN 2002, W02-0740, V03, V04, V05, V06, V07, V08, V09, V10, V11, V12, V13, V14, V15, V16, V17, V18, V19, V20, V21, V22, V23, V24, V25, V26, V27, V28, V29, V30, V31, V32, V33, V34, V35, V36, V37, V38, V39, V40, V41, V42, V43, V44, V45, V46, V47, V48, V49, V50, V51, V52, V53, V54, V55, V56, V57, V58, V59, V60, V61, V62, V63, V64, V65, V66, V67, V68, V69, V70, V71, V72, V73, V74, V75, V76, V77, V78, V79, V80, V81, V82, V83, V84, V85, V86, V87, V88, V89, V90, V91, V92, V93, V94, V95, V96, V97, V98, V99, V100, V101, V102, V103, V104, V105, V106, V107, V108, V109, V110, V111, V112, V113, V114, V115, V116, V117, V118, V119, V120, V121, V122, V123, V124, V125, V126, V127, V128, V129, V130, V131, V132, V133, V134, V135, V136, V137, V138, V139, V140, V141, V142, V143, V144, V145, V146, V147, V148, V149, V150, V151, V152, V153, V154, V155, V156, V157, V158, V159, V160, V161, V162, V163, V164, V165, V166, V167, V168, V169, V170, V171, V172, V173, V174, V175, V176, V177, V178, V179, V180, V181, V182, V183, V184, V185, V186, V187, V188, V189, V190, V191, V192, V193, V194, V195, V196, V197, V198, V199, V200, V201, V202, V203, V204, V205, V206, V207, V208, V209, V210, V211, V212, V213, V214, V215, V216, V217, V218, V219, V220, V221, V222, V223, V224, V225, V226, V227, V228, V229, V230, V231, V232, V233, V234, V235, V236, V237, V238, V239, V240, V241, V242, V243, V244, V245, V246, V247, V248, V249, V250, V251, V252, V253, V254, V255, V256, V257, V258, V259, V260, V261, V262, V263, V264, V265, V266, V267, V268, V269, V270, V271, V272, V273, V274, V275, V276, V277, V278, V279, V280, V281, V282, V283, V284, V285, V286, V287, V288, V289, V290, V291, V292, V293, V294, V295, V296, V297, V298, V299, V300, V301, V302, V303, V304, V305, V306, V307, V308, V309, V310, V311, V312, V313, V314, V315, V316, V317, V318, V319, V320, V321, V322, V323, V324, V325, V326, V327, V328, V329, V330, V331, V332, V333, V334, V335, V336, V337, V338, V339, V340, V341, V342, V343, V344, V345, V346, 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V1153, V1154, V1155, V1156, V1157, V1158, V1159, V1160, V1161, V1162, V1163, V1164, V1165, V1166, V1167, V1168, V1169, V1170, V1171, V1172, V1173, V1174, V1175, V1176, V1177, V1178, V1179, V1180, V1181, V1182, V1183, V1184, V1185, V1186, V1187, V1188, V1189, V1190, V1191, V1192, V1193, V1194, V1195, V1196, V1197, V1198, V1199, V1200, V1201, V1202, V1203, V1204, V1205, V1206, V1207, V1208, V1209, V1210, V1211, V1212, V1213, V1214, V1215, V1216, V1217, V1218, V1219, V1220, V1221, V1222, V1223, V1224, V1225, V1226, V1227, V1228, V1229, V1230, V1231, V1232, V1233, V1234, V1235, V1236, V1237, V1238, V1239, V1240, V1241, V1242, V1243, V1244, V1245, V1246, V1247, V1248, V1249, V1250, V1251, V1252, V1253, V1254, V1255, V1256, V1257, V1258, V1259, V1260, V1261, V1262, V1263, V1264, V1265, V1266, V1267, V1268, V1269, V1270, V1271, V1272, V1273, V1274, V1275, V1276, V1277, V1278, V1279, V1280, V1281, V1282, V1283, V1284, V1285, V1286, V1287, V1288, V1289, V1290, V1291, V1292, V1293, V1294, V1295, V1296, V1297, V1298, V1299, V1300, V1301, V1302, V1303, V1304, V1305, V1306, V1307, V1308, V1309, V1310, V1311, V1312, V1313, V1314, V1315, V1316, V1317, V1318, V1319, V1320, V1321, V1322, V1323, V1324, V1325, V1326, V1327, V1328, V1329, V1330, V1331, V1332, V1333, V1334, V1335, V1336, V1337, V1338, V1339, V1340, V1341, V1342, V1343, V1344, V1345, V1346, V1347, V1348, V1349, V1350, V1351, V1352, V1353, V1354, V1355, V1356, V1357, V1358, V1359, V1360, V1361, V1362, V1363, V1364, V1365, V1366, V1367, V1368, V1369, V1370, V1371, V1372, V1373, V1374, V1375, V1376, V1377, V1378, V1379, V1380, V1381, V1382, V1383, V1384, V1385, V1386, V1387, V1388, V1389, V1390, V1391, V1392, V1393, V1394, V1395, V1396, V1397, V1398, V1399, V1400, V1401, V1402, V1403, V1404, V1405, V1406, V1407, V1408, V1409, V1410, V1411, V1412, V1413, V1414, V1415, V1416, V1417, V1418, V1419, V1420, V1421, V1422, V1423, V1424, V1425, V1426, V1427, V1428, V1429, V1430, V1431, V1432, V1433, V1434, V1435, V1436, V1437, V1438, V1439, V1440, V1441, V1442, V1443, V1444, V1445, V1446, V1447, V1448, V1449, V1450, V1451, V1452, V1453, V1454, V1455, V1456, V1457, V1458, V1459, V1460, V1461, V1462, V1463, V1464, V1465, V1466, V1467, V1468, V1469, V1470, V1471, V1472, V1



| STRUCTURE NUMBER | STRUCTURE TYPE | CASTING | TOP OF CASTING | INVERT |
|------------------|----------------|-------------|----------------|--------|
| STM STR #1 | EX INLET | BEEHIVE | 882.16 | 878.40 |
| STM STR #2 | INLET | BEEHIVE | 882.10 | 879.43 |
| STM STR #3 | C.E.S. | | 882.00 | 879.83 |
| STM STR #4 | INLET | OUTLET STR. | 882.00 | 879.42 |
| STM STR #5 | C.E.S. | | 882.00 | 879.55 |
| STM STR #6 | INLET | CURB | 883.41 | 880.01 |
| STM STR #7 | INLET | BEEHIVE | 883.51 | 880.21 |
| STM STR #8 | INLET | BEEHIVE | 883.27 | 880.87 |
| STM STR #9 | C.E.S. | | 879.50 | 879.50 |
| STM STR #10 | INLET | BEEHIVE | 884.50 | 879.87 |
| STM STR #11 | INLET | BEEHIVE | 883.63 | 880.43 |
| STM STR #12 | MANHOLE | SOLID | 884.00 | 881.10 |
| STM STR #13 | INLET | BEEHIVE | 884.00 | 881.87 |
| STM STR #14 | INLET | CURB | 885.68 | 881.33 |
| STM STR #15 | INLET | CURB | 885.68 | 882.23 |

| STRUCTURE NUMBER | TOP OF CASTING | INVERT (IN) | INVERT (OUT) |
|------------------|----------------|-------------|--------------|
| SAN MH #1 | 884.16 | 873.14 | 872.30 |
| SAN MH #2 | 884.52 | 875.68 | 875.63 |
| SAN MH #3 | 885.59 | 881.15 | 879.56 |

LEGEND

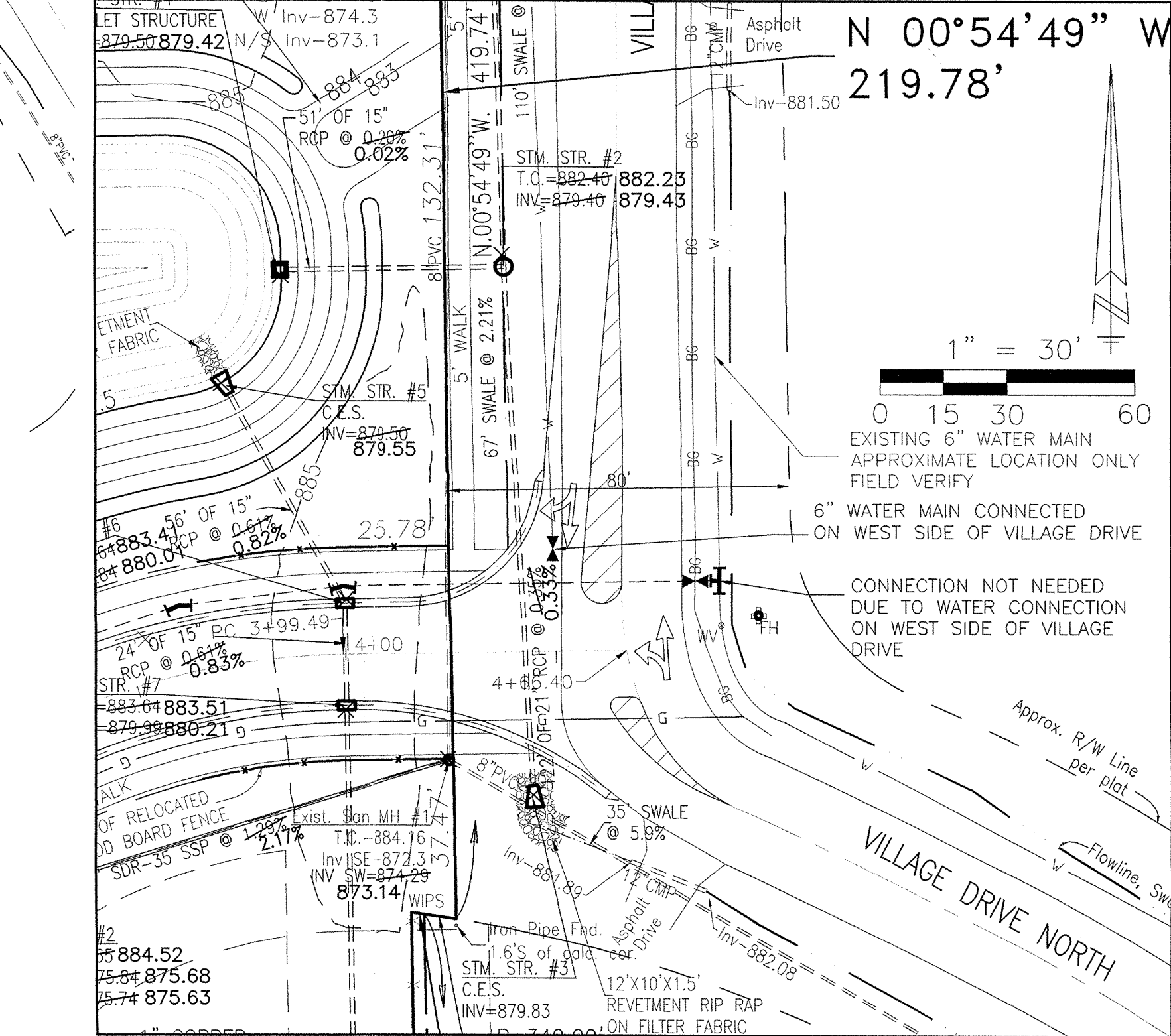
- = Aerial Utility Lines
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- = Buried Gas Lines
- = Power Pole with Transformer
- = Telephone Pedestal
- = Electric Meter
- = Gas Meter
- = Gas Pipeline Marker
- = Water Valve
- = Water Meter
- = Underdrain
- = Sanitary Sewer Service
- = Fire Hydrant
- = Yard Light
- = Mailbox
- = Air Conditioner
- = Cleanout
- = Inlet
- = Survey Control Point
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- = 5/8" Rebar with WEHE cap set 8/14/02
- = 5/8" Rebar with WEHE cap found
- = Wood Board Fence
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- = Certificate of Correction

AS-BUILT WATER MAIN LATERAL
AS-BUILT SUB-SURFACE DRAIN
AS-BUILT SANITARY LATERAL

SCALE: 1" = 50'

BENCHMARK
RAILROAD SPIKE IN THE SOUTH SIDE OF A POWER POLE PER AMERICAN CONSULTING ENGINEERS SURVEY CONTROL PLAT FOR 146TH STREET (JOB 97-614). (TBM #28)
ELEVATION = 884.33 (NAVD 1988)

TEMPORARY BENCHMARK
THE NORTHWEST BASE BOLT ON A LIGHT STANDARD ON THE EAST SIDE OF AN ASPHALT DRIVE AT OUR LADY OF MOUNT CARMEL CATHOLIC CHURCH, BEING DIRECTLY EAST OF THE BUILDING, AND APPROXIMATELY 20 FEET SOUTH OF A 21" MAPLE TREE. (ESTABLISHED IN WEIHE ENGINEERS, INC. JOB W00-895)
ELEVATION = 883.60



HAMILTON COUNTY INDIANA
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
Entry Date: 8-19-05
Entered by: SLM

RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
12/15/03

RECORD DRAWING
SANITARY SEWER AS-BUILTS
SANITARY SEWER STRUCTURES ONLY
12/15/03

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
12/15/03

INTERSECTION DETAIL

*THE CONTRACTOR SHALL FIELD CHECK EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS.

CAUTION!!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLET VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

PLEASE CALL "HOLEY MOLEY"
1-800-382-5544
TOLL FREE

WEIHE ENGINEERS, INC.
1005 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46280
(317) 846-6611 FAX: (317) 843-0546
TOLL-FREE (800) 452-6488

ALLAN H. WEIHE
REGISTERED CIVIL ENGINEER
REGISTERED LAND SURVEYOR
PRESIDENT

CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECTS

DATE: 01/17/03
JOB NO: W02-0740
DRAWN BY: JKS
CHECKED BY: JKS
DATE: 04/30/2003

MINOR REVISIONS TO ALL SHEETS PER CARMEL T.A.C. PER PLAN TO BE PAID BY CONTRACTOR PER CLIENT
MINOR REVISIONS TO SANITARY PER CARMEL UTILITIES
MINOR REVISIONS TO STORM PER CARMEL UTILITIES
MINOR REVISIONS PER HAMILTON CO. SURVEYOR AND REGISTERED LAND SURVEYOR
UNDERGROUND CONNECTION AND CURB TAPER REVISIONS PER CITY OF CARMEL
SANITARY, STORM SEWER & WATER AS-BUILTS

JAMES K. SHINNEMAN
REGISTERED
NO. 10200392
STATE OF INDIANA
PROFESSIONAL ENGINEER

PREPARED FOR:
VILLAGE OF MOUNT CARMEL
TENTH SECTION
ELLIOTT WRICHT GROUP
DEVELOPMENT LAYOUT PLAN

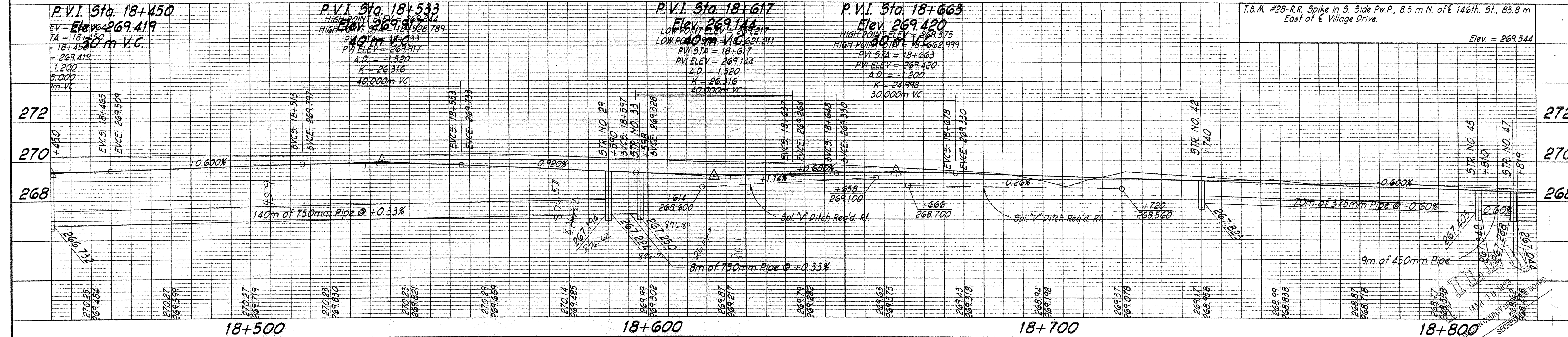
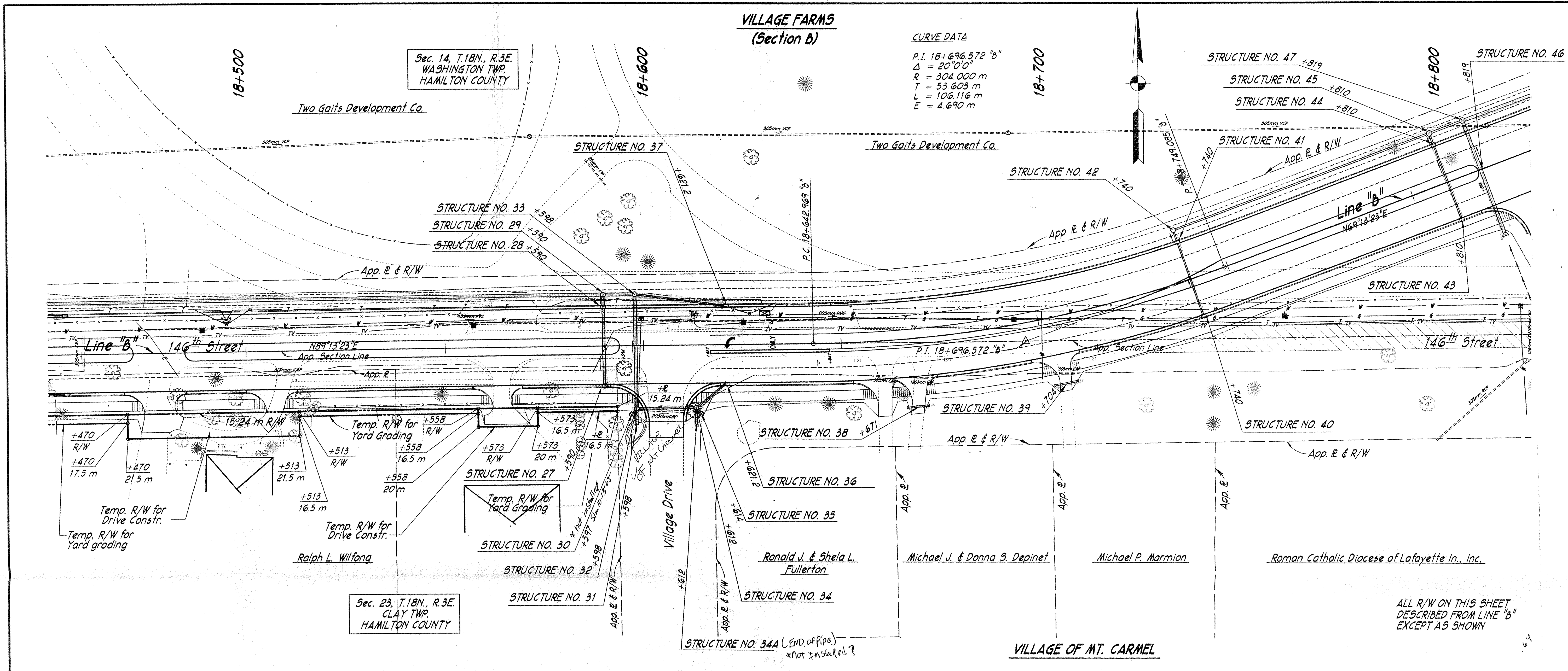
SHEET NO. **3**
PROJECT NO. W02-0740

LOCATION: H:\2002\W020740\RECORD DRAWINGS\20740REV-ASBUILT.dwg
DATE/TIME: January 29, 2004 - 3:13pm
PLOTTER: HP DesignJet 500

VILLAGE FARMS
(Section B)

CURVE DATA

P.I. 18+696.572 "b"
 $\Delta = 20^{\circ}0'0"$
 $R = 304.000\text{ m}$
 $T = 53.603\text{ m}$
 $L = 106.116\text{ m}$
 $E = 4.690\text{ m}$



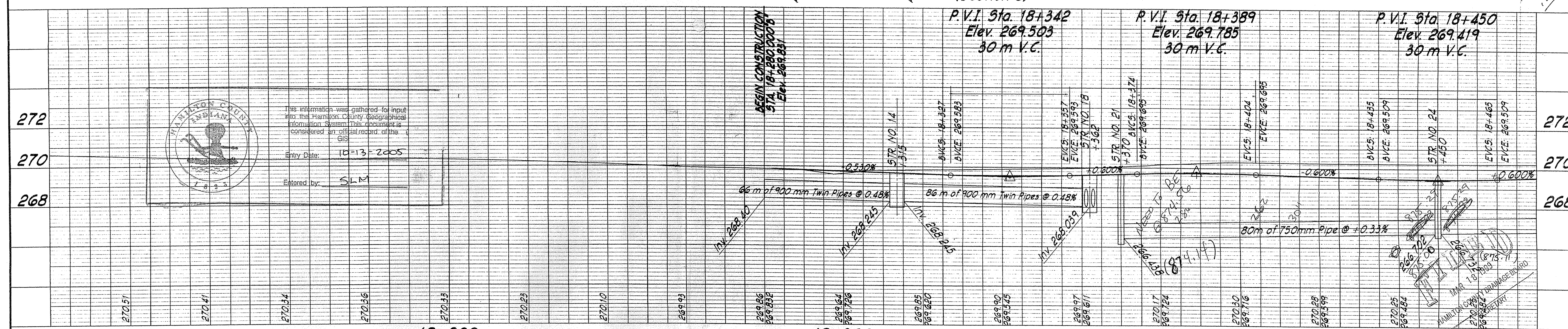
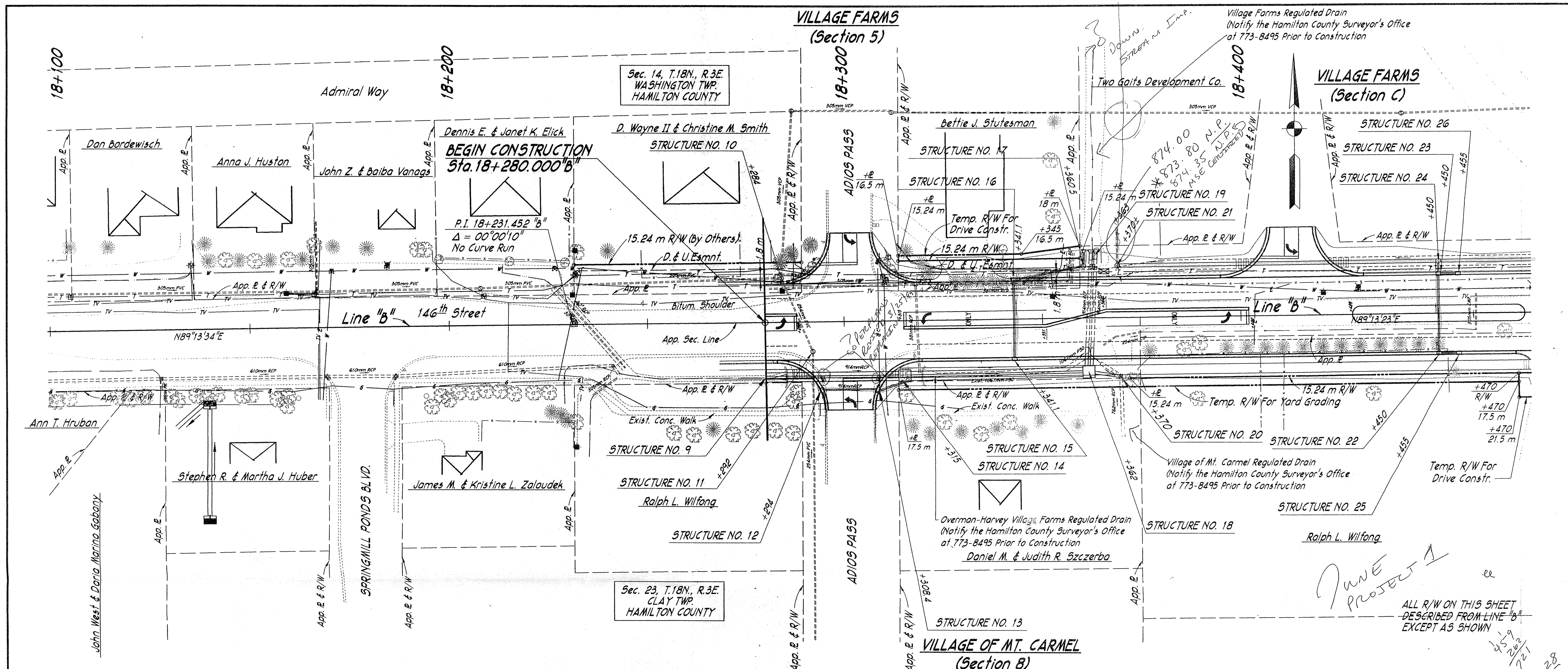
This information was gathered for input into the Hamilton County Geographical Information System (GIS) and is considered an official record of this information.

Entry Date: 10-13-05

Entered by: SLM

| | | | | | |
|--------------------------|-----------------|------|---------------------------------------|------------------|--------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE | HAMILTON COUNTY HIGHWAY DEPARTMENT | HORIZONTAL SCALE | BRIDGE FILE |
| DESIGNED: | DRAWN: | | | VERTICAL SCALE | DESIGNATION |
| CHECKED: | CHECKED: | | PLAN AND PROFILE | SURVEY BOOK | SHEETS |
| | | | | CONTRACT | 7 of PROJECT |

This copy is from the Digital Archive of the Hamilton County Surveyors Office, One Hamilton Co. Square, Ste. 188, Noblesville, IN



| | | | | | | | |
|--|--|--|--|---|--|---|--|
| <p>This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.</p> <p>Entry Date: 10-13-2005</p> <p>Entered by: SLM</p> | | <p>RECOMMENDED FOR APPROVAL</p> <p>DESIGN ENGINEER _____ DATE _____</p> <p>DESIGNED: W.E.H. DRAWN: W.A.W.</p> <p>CHECKED: P.D.G. CHECKED: W.E.H.</p> | | <p>HAMILTON COUNTY HIGHWAY DEPARTMENT</p> <p>PLAN AND PROFILE</p> | | <p>HORIZONTAL SCALE 1:500 BRIDGE FILE</p> <p>VERTICAL SCALE 1:100 DESIGNATION</p> <p>SURVEY BOOK _____ SHEETS 6 of _____</p> <p>CONTRACT _____ PROJECT</p> <p>HCHD PR-97-0006</p> | |
|--|--|--|--|---|--|---|--|

DWG FILE: J:\97\97-614\97614R10
 PLOT SCALE: 1:500
 PLOT ORIGIN: 15872.31, 15064.34

SPELLCHK:
 EDIT DATE: 03/16/99 09:34:59
 EDITED BY: WAW - S104

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

STRUCTURE DATA

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

| | | | | | |
|-------------------------|-------|-----------------|-------------|-----------|--------------|
| FEDERAL ROAD REGION NO. | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 5 | IND. | HCHD PR-97-0006 | 1998 | | |

| STRUCTURE NUMBER | LOCATION | LEFT | RIGHT | CROSS | SIZE | GROUP | DESCRIPTION SEE STD. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP | LENGTH meters | SKEW | FLOW LINE | | CONCRETE CLASS "A" | "B" BORROW FOR STR. BACKFILL | BACKFILL METHOD | GAGES OR THICKNESS | | VELOCITY | RIPRAP | PIPE END SECTION | REINF. STEEL | CONNECT TO STRUCTURE NO. | REMARKS | | |
|------------------|----------|------|-------|-------|------|-------|---|------------------|------|--------------|----------------|-----------------------|------------------------------------|--------------------|-----------------------|--------|----------|--------|---------------------|-----------------|-----------------------------|---------|--|--|
| | | | | | | | | | | UP STREAM | DOWN STREAM | | | | STEEL* | ALUM.* | | | | | | | | |
| | | | | | | | | | | ELEV. | ELEV. | | | | m | m | | | | | | | | |
| 9 | LINE "B" | | | | 900 | | | 64 | | 268.410 | 268.258 | | | | | | | | | | | 14 | Twin Pipes - Remove Headwall in Place Adjust Casting to Grade | |
| 10 | 18+284 | X | | | | | Manhole in Place (San.) | | | | | | | | | | | | | | | | | Adjust Casting to Grade |
| 11 | 18+292 | | X | | | | Manhole in Place (San.) | | | | | | | | | | | | | | | | | |
| 12 | 18+293.5 | | X | | | | Inlet Type B-15 | 15 | | | | | | | | | | | | | | | | |
| 13 | 18+309 | | X | | | | Catch basin Type C-15 | 4 | | | | | | | | | | | | | | | | |
| 14 | 18+319 | | X | | 900 | | Sp'l. M.H. W/Type 4 Casting | 96 | | 268.258 | 268.039 | | | | | | | | | | | 18 | Twin Pipes - Remove Headwall in Place | |
| 15 | 18+341.1 | | X | | 300 | 12" | Inlet Type B-15 | 19.5 | 44' | 268.351 | 268.255 | | | | | | | | | | | 16 | | |
| 16 | 18+341.1 | | X | | 300 | 12" | Catch basin Type C-15 | 17 | 55' | 268.255 | 267.945 | | | | | | | | | | | 17 | | |
| 17 | 18+360.5 | | X | | 300 | 12" | Manhole Type C-4 | 3 | 10' | 267.945 | 267.907 | | | | | | | | | | | 1 | Outlet in Ditch | |
| 18 | 18+362 | | X | | 900 | | Sp'l. Manhole W/Type 4 | 11 | | 268.039 | 268.014 | | | | | | | | | | | | | Twin Pipes - Connect to Existing Pipes |
| 19 | 18+363 | | X | | 900 | | | 4 | | 267.916 | 267.907 | | | | | | | | | | | 2 | Twin Pipes - Outlet in Ditch - Connect to Existing Pipes | |
| 20 | 18+370 | | X | | 750 | | Inlet in Place | 7 | | Exist. Inv. | 268.180 | | | | | | | | | | | 18 | | |
| 21 | 18+370 | | X | | | | Manhole in Place (Storm) | | | 266.438 | 268.159 | | | | | | | | | | | | | Adjust Casting to Grade |
| 22 | 18+450 | | X | | 300 | 12" | Inlet Type B-15 | 19.5 | 44' | 268.255 | 268.159 | | | | | | | | | | | 23 | | |
| 23 | 18+450 | | X | | 300 | 12" | Catch basin Type C-15 | 2 | 4.5' | 268.159 | 268.149 | | | | | | | | | | | 24 | | |
| 24 | 18+450 | | X | | 750 | 30" | Manhole Type D-4 | 80 | 22' | 266.702 | 266.438 | | | | | | | | | | | 21 | | |
| 25 | 18+455 | | X | | 300 | 12" | Inlet Type B-15 | 4 | 13' | 268.275 | 268.255 | | | | | | | | | | | 22 | | |
| 26 | 18+455 | | X | | 300 | 12" | Inlet Type B-15 | 4 | 13' | 268.275 | 268.159 | | | | | | | | | | | 23 | | |
| 27 | 18+590 | | X | | 300 | 12" | Inlet Type B-15 | 19.5 | 44' | 268.199 | 268.103 | | | | | | | | | | | 28 | | |
| 28 | 18+590 | | X | | 300 | 12" | Catch basin Type C-15 | 2 | 4.5' | 268.103 | 268.093 | | | | | | | | | | | 29 | | |
| 29 | 18+590 | | X | | 750 | 30" | Manhole Type D-4 | 140 | 25' | 267.194 | 266.732 | | | | | | | | | | | 24 | | |
| 30 | 18+597 | | X | | 300 | 12" | Catch basin Type E-7 | 1.5 | 5' | 268.267 | 268.034 | | | | | | | | | | | 32 | | |
| 31 | 18+598 | | X | | 600 | 24" | Pipe | 2 | 4.5' | 267.744 | 267.734 | | | | | | | | | | | 32 | Seal & Cap, Upstream End of Pipe | |
| 32 | 18+598 | | X | | 600 | 24" | Manhole Type D-4 | 28 | 9' | 267.584 | 267.444 | | | | | | | | | | | 33 | | |
| 33 | 18+598 | | X | | 750 | 30" | Manhole Type D-4 | 8 | 24' | 267.250 | 267.224 | | | | | | | | | | | 29 | | |
| 34 | 18+612 | | X | | 450 | 18" | Manhole Type C-4 | 14 | 44' | 267.828 | 267.758 | | | | | | | | | | | 32 | | |
| 35 | 18+614 | | X | | 300 | 12" | Catch basin Type E-7 | 1.5 | 5' | 268.066 | 267.978 | | | | | | | | | | | 34 | | |
| 36 | 18+621.2 | | X | | 300 | 12" | Catch basin Type B-15 | 9 | 24' | 268.023 | 267.978 | | | | | | | | | | | 34 | | |
| 37 | 18+621.2 | | X | | 300 | 12" | Catch basin Type B-15 | 22 | 72' | 268.023 | 267.864 | | | | | | | | | | | 33 | | |
| 38 | 18+671 | | X | | 300 | | Pipe | 6 | | | | | | | | | | | | | | 2 | Construct Pipe Under Drive | |
| 39 | 18+704 | | X | | 300 | | Pipe | 6 | | | | | | | | | | | | | | 2 | Construct Pipe Under Drive | |
| 40 | 18+740 | | X | | 300 | | Inlet Type B-15 | 19.5 | | 268.049 | 267.951 | | | | | | | | | | | 41 | | |
| 41 | 18+740 | | X | | 375 | | Catch basin Type C-15 | 2.5 | | 267.951 | 267.938 | | | | | | | | | | | 42 | | |
| 42 | 18+740 | | X | | 375 | | Manhole Type C-4 | 70 | | 267.823 | 267.403 | | | | | | | | | | | 45 | | |
| 43 | 18+810 | | X | | 300 | | Inlet Type B-15 | 19.5 | | 267.629 | 267.531 | | | | | | | | | | | 44 | | |
| 44 | 18+810 | | X | | 375 | | Catch basin Type C-15 | 2.5 | | 267.531 | 267.518 | | | | | | | | | | | 45 | | |
| 45 | 18+810 | | X | | 450 | | Manhole Type C-4 | 9 | | 267.342 | 267.288 | | | | | | | | | | | 47 | | |
| 46 | 18+819 | | X | | 750 | | Pipe | 30 | | 267.194 | 267.044 | | | | | | | | | | | 1 | 47 | |
| 47 | 18+819 | | X | | 750 | | Sp'l. M.H. W/Type 4 Casting | 50 | | 267.044 | 266.894 | | | | | | | | | | | 51 | | |
| 48 | 18+831 | | X | | 300 | | Pipe | 16 | | 268.150 | 267.990 | | | | | | | | | | | 2 | Construct Pipe Under Approach | |
| 49 | 18+860 | | X | | 300 | | Inlet Type B-15 | 19.5 | | 267.329 | 267.231 | | | | | | | | | | | 50 | | |
| 50 | 18+860 | | X | | 300 | | Catch basin Type C-15 | 8.5 | | 267.231 | 267.188 | | | | | | | | | | | 51 | | |
| 51 | 18+869 | | X | | 1050 | | Sp'l. Manhole W/Type 4 | 5.5 | | 266.894 | 266.828 | (Exist.) | | | | | | | | | | | | Connect to Existing 42" Pipe |
| 52 | 18+910 | | X | | 375 | | Inlet Type B-15 | 19.5 | | 267.133 | 267.035 | | | | | | | | | | | 53 | | |
| 53 | 18+910 | | X | | 375 | | Catch basin Type C-15 | 2.5 | | 267.035 | 267.023 | | | | | | | | | | | 54 | | |
| 54 | 18+910 | | X | | 900 | | Sp'l. M.H. W/Type 4 Casting | 41 | | 267.001 | 266.894 | | | | | | | | | | | 51 | | |
| 55 | 18+914 | | X | | 300 | | Inlet Type B-15 | 3.5 | | 267.150 | 267.133 | | | | | | | | | | | 52 | | |
| 56 | 18+914 | | X | | 300 | | Inlet Type B-15 | 3.5 | | 267.150 | 267.035 | | | | | | | | | | | 53 | | |

| STRUCTURE NUMBER | LOCATION | LEFT | RIGHT | CROSS | SIZE | GROUP | DESCRIPTION SEE STD. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP | LENGTH meters | SKEW | FLOW LINE | | CONCRETE CLASS "A" | "B" BORROW FOR STR. BACKFILL | BACKFILL METHOD | THICKNESS | | VELOCITY | RIPRAP | PIPE END SECTION | REINF. STEEL | CONNECT TO STRUCTURE NO. | REMARKS | | | |
|------------------|----------|------|-------|-------|------|-------|---|------------------|------|--------------|----------------|-----------------------|------------------------------------|--------------------|-----------|--------|----------|--------|---------------------|-----------------|-----------------------------|---------|--|-----|-------------------------|
| | | | | | | | | | | UP STREAM | DOWN STREAM | | | | STEEL* | ALUM.* | | | | | | | | | |
| | | | | | | | | | | ELEV. | ELEV. | | | | m | m | | | | | | | | | |
| 57 | LINE "B" | | | | 900 | | Sp'l. Manhole W/Type 4 | 8 | | 267.022 | 267.001 | | | | | | | | | | | | | 54 | |
| 58 | 18+923.5 | | X | | 450 | | Pipe | 32 | | 267.196 | 267.100 | | | | | | | | | | | | | 57 | |
| 59 | 18+975 | | X | | 300 | | Inlet Type B-15 | 23 | | 267.421 | 267.306 | | | | | | | | | | | | | 60 | |
| 60 | 18+975 | | X | | 300 | | Catch basin Type C-15 | 2.5 | | 267.306 | 267.294 | | | | | | | | | | | | | 61 | |
| 61 | 18+975 | | X | | 750 | | Sp'l. M.H. W/Type 4 Casting | 57 | | 267.170 | 267.022 | | | | | | | | | | | | | 57 | |
| 62 | 19+026 | | X | | 750 | | Manhole Type D-4 | 51 | | 267.303 | 267.170 | | | | | | | | | | | | | 61 | |
| 63 | 19+080 | | X | | 300 | | Inlet Type B-15 | 26 | | 268.360 | 268.230 | | | | | | | | | | | | | 64 | |
| 64 | 19+080 | | X | | 300 | | Catch basin Type C-15 | 2 | | 268.230 | 268.220 | | | | | | | | | | | | | 65 | |
| 65 | 19+080 | | X | | 300 | | Manhole Type C-4 | 18.5 | | 268.220 | 267.725 | | | | | | | | | | | | | 153 | |
| 66 | 19+220 | | X | | 300 | | Inlet Type B-15 | 19.5 | | 269.070 | 268.974 | | | | | | | | | | | | | 67 | |
| 67 | 19+220 | | X | | 300 | | Inlet Type C-15 | 7 | | 268.974 | 268.939 | | | | | | | | | | | | | 68 | |
| 68 | 19+220 | | X | | 300 | | Catch basin Type F-7 | 66 | | 268.939 | 267.738 | | | | | | | | | | | | | 71 | |
| 69 | 19+285 | | X | | 300 | | Inlet Type B-15 | 19.5 | | 267.848 | 267.752 | | | | | | | | | | | | | 70 | |
| 70 | 19+285 | | X | | 300 | | Catch basin Type C-15 | 2.5 | | 267.752 | 267.740 | | | | | | | | | | | | | 71 | |
| 71 | 19+285 | | X | | 375 | | Manhole Type C-4 | 79 | | 267.664 | 265.942 | | | | | | | | | | | | | 74 | |
| 72 | 19+364 | | X | | 300 | | Inlet Type C-15 | 19.5 | | 266.128 | 266.031 | | | | | | | | | | | | | 73 | |
| 73 | 19+364 | | X | | 300 | | Catch basin Type C-15 | 2.5 | | 266.031 | 266.019 | | | | | | | | | | | | | 74 | |
| 74 | 19+364 | | X | | 525 | | Manhole Type C-4 | 52 | | 265.869 | 265.593 | | | | | | | | | | | | | 78 | |
| 75 | 19+368 | | X | | 300 | | Catch basin Type E-7 | 18 | | 266.308 | 266.128 | | | | | | | | | | | | | 72 | |
| 76 | 19+416.3 | | X | | 300 | | Inlet Type B-15 | 18.5 | | 265.852 | 265.756 | | | | | | | | | | | | | 77 | |
| 77 | 19+416.3 | | X | | 300 | | Catch basin Type C-15 | 2.5 | | 265.756 | 265.744 | | | | | | | | | | | | | 78 | |
| 78 | 19+416.3 | | X | | 525 | | Manhole Type C-4 | 42 | | 265.519 | 265.057 | | | | | | | | | | | | | 79 | |
| 79 | 19+458 | | X | | 525 | | Manhole Type C-4 | 67 | | 265.057 | 264.320 | | | | | | | | | | | | | 83 | |
| 80 | 19+490 | | X | | | | Manhole in Place (San.) | | | | | | | | | | | | | | | | | | Adjust Casting to Grade |
| 81 | 19+525 | | X | | 300 | | Inlet Type B-15 | 18.5 | | 264.651 | 264.555 | | | | | | | | | | | | | 82 | |
| 82 | 19+525 | | X | | 300 | | Catch basin Type C-15 | | | 264.555 | 264.542 | | | | | | | | | | | | | 83 | |
| 83 | 19+525 | | X | | 600 | | Manhole Type C-4 | 78 | | 264.242 | 263.345 | | | | | | | | | | | | | 88 | |
| 84 | 19+590 | | X | | 300 | | Inlet Type B-15 | 11.5 | | 263.810 | 263.752 | | | | | | | | | | | | | | |