



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

September 30, 2005

To: Hamilton County Drainage Board

Re: J. W. Brendle Drain, The Lakes at Towne Road Section 1 Arm

Attached is a petition filed by Oakfield Development II, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Lakes at Towne Road Section 1 Arm, J. W. Brendle Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway, and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

| | | | | | |
|---------|----------|---------|--------|---------|--------|
| 6" SSD | 5,024 ft | 18" RCP | 897 ft | 30" RCP | 438 ft |
| 12" RCP | 1,287 ft | 21" RCP | 632 ft | 33" RCP | 94 ft |
| 15" RCP | 104 ft | 27" RCP | 48 ft | | |

The total length of the drain will be 8,524 feet.

An open ditch was constructed through future Section 2, between Structures 401 and Structure 425, to allow Section 1 to have an outlet. (See sheet C202 of plans by Stoepplerwerth dated 11/01/94, Job No. 4870051). Once Section 2 develops, the Section 2 ponds and regulated drain will be installed and the temporary ditch will be abandoned. Until that time, the temporary ditch will be maintained as part of the regulated drain but will not be counted in the footage of the drain. The developer owns the land this temporary ditch crosses, so no offsite easement was needed for this project.

The retention pond (Lake #1) which is located in Common Area #1 is 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 pond (lake) 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 (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 the 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 \$10.00 per acre for common areas and platted lots, \$10.00 per acre for roadways, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be ~~\$1,494.60~~ \$2,144.60.

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 are as follows:

Agent: Bond Safeguard Insurance Co.
Date: May 16, 2005
Number: 5016595
For: Storm Sewers and Underdrains
Amount: \$205,821.70

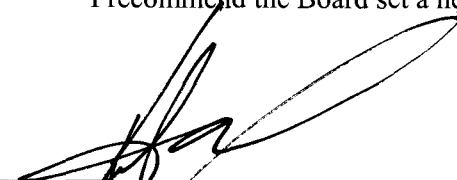
Agent: Bond Safeguard Insurance Company
Date: May 16, 2005
Number: 5016596
For: Erosion Control
Amount: \$75,291.00

Parcels assessed for this drain may be assessed for the Long Branch Drain at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC36-9-27-67 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 the Lakes at Towne Road Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 23, 2006.



Kenton C. Ward
Hamilton County Surveyor
KCW/llm

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 The Lakes at Towne Road Subdivision, Section
One 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 The Lakes at Towne Road, Section 1, 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

Sheldon Phelps
Printed Name

November 1, 2004
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

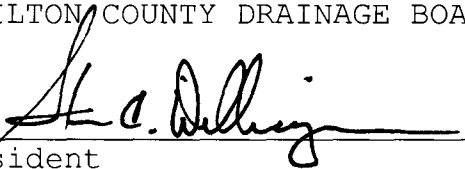
CONCERNING THE MAINTENANCE OF THE

J. W. Brendle Drain, Lakes at Towne Road Section 1 Arm


On this **23rd day of January 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **J. W. Brendle Drain, Lakes at Towne Road Section 1 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: 



CONSULTING ENGINEERS • LAND SURVEYORS

David J. Stoepelwerth, P.E., P.L.S.
President, C.E.O.

Curtis C. Huff, P.L.S.
Vice-President, C.O.O.

R.M. Stoepelwerth, P.E., P.L.S.
President Emeritus

April 20, 2005

City of Carmel
Director of Engineering
1 Civic Square
Carmel, Indiana 46032

Attention: Dick Hill

FILED
APR 22 2005
OFFICE OF HAMILTON COUNTY SURVEYOR

Re: The Lakes at Towne Road,
Section 1

Dear Mr. Hill:

On behalf of the developer, Towne Road Properties, L.L.C., I wish to submit the following Engineer's Estimates for The Lakes at Towne Road, Section 1. The estimate is as follows:

THE LAKES AT TOWNE ROAD, SECTION 1

| | |
|---|---------------------|
| Earthwork | \$112,150.00 |
| Paving (includes Soil Stabilization) | \$318,813.00 |
| Erosion Control | \$62,742.00 |

Sanitary Sewer

| | QTY | UNIT | UNIT \$ | TOTAL \$ |
|--------------------------|------|------|------------|-------------|
| 6" PVC SDR 35 LATERALS | 1342 | LF | \$27.61 | \$37,052.62 |
| 8" PVC SDR 35 6'-10' DP | 630 | LF | \$29.04 | \$18,295.20 |
| 8" PVC SDR 35 11'-12' DP | 708 | LF | \$29.04 | \$20,560.32 |
| 8" PVC SDR 35 13'-14' DP | 364 | LF | \$32.77 | \$11,928.28 |
| 8" PVC SDR 35 15'-16' DP | 172 | LF | \$32.76 | \$5,634.72 |
| 8" PVC SDR 35 17'-18' DP | 140 | LF | \$35.75 | \$5,005.00 |
| MANHOLES - 7' - 10' | 2 | EA | \$2,699.60 | \$5,399.20 |
| MANHOLES - 10' - 12' | 2 | EA | \$3,274.60 | \$6,549.20 |
| MANHOLES 12' - 14' | 1 | EA | \$3,757.60 | \$3,757.60 |
| MANHOLES 14' - 16' | 2 | EA | \$4,798.70 | \$9,597.40 |

| | | | | |
|----------------------|---|----|------------|---------------------|
| 3 YR MAINTENANCE BND | 1 | EA | \$1,250.00 | \$1,250.00 |
| TOTAL | | | | \$125,029.54 |

Storm Sewer

| | QTY | UNIT | UNIT \$ | TOTAL \$ |
|----------------------------|------|------|------------|---------------------|
| 12" RCP | 1184 | LF | \$19.88 | \$23,537.92 |
| 15" RCP | 104 | LF | \$22.77 | \$2,368.08 |
| 18" RCP | 872 | LF | \$24.67 | \$21,512.24 |
| 21" RCP | 632 | LF | \$29.12 | \$18,403.84 |
| 27" RCP | 48 | LF | \$42.39 | \$2,034.72 |
| 30" RCP | 432 | LF | \$45.76 | \$19,768.32 |
| 33" RCP | 88 | LF | \$56.65 | \$4,985.20 |
| 12" C.E.S. W/ ANIMAL GUARD | 4 | EA | \$719.50 | \$2,878.00 |
| 18" C.E.S. W/ ANIMAL GUARD | 2 | EA | \$742.50 | \$1,485.00 |
| 36" C.E.S. W/ ANIMAL GUARD | 1 | EA | \$1,501.00 | \$1,501.00 |
| STORM STRUCTURES | 26 | EA | \$1,786.00 | \$46,436.00 |
| SAND BACKFILL | 489 | TONS | \$6.45 | \$3,154.05 |
| RIP RAP | 84 | TONS | \$17.00 | \$1,428.00 |
| 6" SSD UNDER CURBS | 4931 | LF | \$4.12 | \$20,315.72 |
| 3 YR MAINTENANCE BND | 1 | EA | \$1,710.00 | \$1,710.00 |
| TOTAL | | | | \$171,518.09 |

Water

| | QTY | UNIT | UNIT \$ | TOTAL \$ |
|--------------------|------|------|----------|-------------|
| 12" DUCTILE IRON | 2018 | LF | \$35.24 | \$71,114.32 |
| 8" DUCTILE IRON | 1170 | LF | \$27.76 | \$32,479.20 |
| 1" COPPER | 1539 | LF | \$21.20 | \$32,626.80 |
| 12" X 12" MJ TEE'S | 2 | EA | \$672.57 | \$1,345.14 |
| 12" X 8 MJ TEE'S | 1 | EA | \$587.77 | \$587.77 |
| 8" X 8" MJ TEE'S | 1 | EA | \$357.97 | \$357.97 |

City of Carmel Engineering
Dick Hill
April 20, 2005
Page 3 of 3

| | | | | |
|----------------------|------|----|------------|---------------------|
| 8" GATE VALVES | 5 | EA | \$681.87 | \$3,409.35 |
| 12" GATE VALVES | 1 | EA | \$1,656.09 | \$1,656.09 |
| FIRE HYDRANTS | 9 | EA | \$2,244.12 | \$20,197.08 |
| TESTING/CHLORINATION | 3188 | LF | \$1.81 | \$5,770.28 |
| MAINTENANCE BOND | 1 | EA | \$885.00 | \$885.00 |
| TOTAL | | | | \$170,429.00 |

If you have any questions regarding these estimates, please contact Brian Robinson at (317) 577-3400, ext. 16.

Very truly yours,

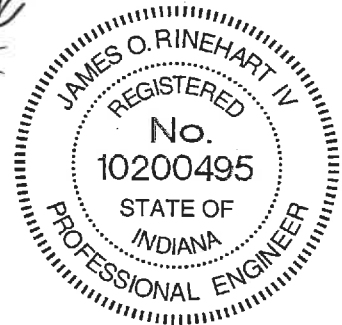
STOEPPEL WERTH & ASSOCIATES, INC.



James O. Rinehart, P.E.
No. 10200495

Cc: Ryan Thomas
Sheldon Phelps
Greg Hoyes

BKR/meb
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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF
J. W. Brendle Drain, Lakes @ Towne Road Section 1 Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **J. W. Brendle Drain, Lakes @ Towne Road Section 1 Arm** on **January 23, 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

J. W. Brendle Drain, Lakes @ Towne Road Section 1 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



SURVEYOR'S OFFICE

Hamilton County

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

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

To: Hamilton County Drainage Board

September 17, 2009

Re: JW Brendle: Lakes at Towne Road Section 1

Attached are as-builts, certificate of completion & compliance, and other information for Lakes at Towne Road Section 1. 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 September 30, 2005. The report was approved by the Board at the hearing held January 23, 2006. (See Drainage Board Minutes Book 9, Pages 19-20)

The changes are as follows:

| Structure: | Length: | Size | Material: | Up Invert: | Dn Invert | Grade: | Changes: |
|------------|---------|------|-----------|------------|-----------|--------|----------|
| 442-441 | 137 | 12 | RCP | 908.19 | 907.92 | 0.2 | -1 |
| 441-440 | 36 | 15 | RCP | 907.92 | 907.69 | 0.64 | |
| 440-439 | 155 | 18 | RCP | 907.69 | 907.24 | 0.29 | -2 |
| 439-437 | 474 | 21 | RCP | 907.24 | 905.8 | 0.3 | -1 |
| 437-436 | 48 | 27 | RCP | 905.8 | 905.65 | 0.31 | 1 |
| 436-435 | 240 | 30 | RCP | 905.65 | 905.05 | 0.25 | 2 |
| 435-434 | 170 | 30 | RCP | 905.05 | 904.6 | 0.26 | |
| 434-433 | 30 | 30 | RCP | 904.6 | 904.42 | 0.6 | |
| 433-432 | 91 | 33 | RCP | 904.42 | 904.1 | 0.35 | -3 |
| 452-451 | 139 | 12 | RCP | 906.66 | 906.12 | 0.39 | -1 |
| 451-433 | 68 | 15 | RCP | 906.12 | 905.83 | 0.43 | |
| 446-445 | 112 | 12 | RCP | 907.02 | 906.65 | 0.33 | -2 |
| 445-444 | 55 | 12 | RCP | 906.65 | 906.46 | 0.35 | |
| 444-443 | 36 | 18 | RCP | 906.46 | 906.38 | 0.22 | |
| 443-437 | 158 | 21 | RCP | 906.38 | 905.8 | 0.37 | 1 |
| 450-449 | 119 | 12 | RCP | 907.49 | 906.64 | 0.71 | -1 |
| 449-448 | 55 | 12 | RCP | 906.64 | 906.54 | 0.18 | 2 |
| 448-447 | 30 | 18 | RCP | 906.54 | 906.48 | 0.2 | |
| 447-436 | 140 | 18 | RCP | 906.48 | 905.65 | 0.59 | |
| 430-429 | 68 | 12 | RCP | 907.55 | 906.8 | 1.1 | |
| 429-427A | 229 | 12 | RCP | 906.8 | 904.21 | 1.13 | 7 |
| 431-429 | 30 | 12 | RCP | 907.05 | 906.8 | 0.83 | |

| | | | | | | | |
|-----------|-----|----|-----|--------|--------|-------|---|
| 428-427 | 138 | 18 | RCP | 904.1 | 904.1 | 0 | 4 |
| 427-426 | 294 | 18 | RCP | 904.1 | 904.09 | 0.003 | 1 |
| 426-425 | 107 | 18 | RCP | 904.09 | 904.1 | 0.009 | |
| 401-401A | 37 | 12 | RCP | 903.38 | 903.15 | 0.67 | |
| 401A-400 | 62 | 12 | RCP | 903.05 | 902.77 | 1.17 | |
| 453A-453B | 41 | 12 | RCP | | | | |
| 455-454 | 44 | 12 | RCP | | | | |
| 454-453 | 97 | 12 | RCP | | | | |

RCP Pipe Totals:

| | |
|----|------|
| 12 | 1225 |
| 15 | 104 |
| 18 | 900 |
| 21 | 632 |
| 27 | 48 |
| 30 | 440 |
| 33 | 91 |

Total: 3440

SSD Streets Total:

| | |
|------------|------|
| Milano | 2208 |
| Wineland | 1295 |
| Rock Creek | 184 |
| Olive Lake | 623 |

Total: 4310

The length of the drain due to the changes described above is now **7750 feet**. It should be noted that the drain was modified with the Towne Road improvements. This project removed 525 feet of 6" SSD at the entrance on Towne Rd, 34 feet of 12" RCP between Structures 453A-453B, and 29 feet of 12" RCP between Structures 453, 454, and 455.

The non-enforcement was approved by the Board at its meeting on January 23, 2006 and recorded under instrument #20060004905.

The following sureties were guaranteed by Bond Safeguard Insurance Co. and released by the Board on its March 27, 2006 meeting.

Bond-LC No: 5016595
Insured For: Storm Sewers, SSD
Amount: \$205,821.70
Issue Date: May 16, 2005

Bond-LC No: 5016596
Insured For: Erosion Control
Amount: \$75,291.00
Issue Date: May 16, 2005

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

NOTE: A DEBRIS GUARD SHALL BE INSTALLED ON ALL UPSTREAM OPEN ENDED INLETS AND AT THE POND OUTFALL PIPE.

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.

TBM # 9
RAILROAD SPIKE, UP 1"± ON THE WEST SIDE OF A POWER POLE # 13423, LOCATED ALONG THE SOUTH SIDE OF STONE DRIVE TO ADDY # 13405 AND TOWNE ROAD EAST SIDE OF TOWNE ROAD.
ELEVATION: 908.59'

S&A #2
RAILROAD SPIKE, UP 1"± ON THE WEST SIDE TELEPHONE POLE, LOCATED 136TH ST., 3RD POLE ON THE NORTH SIDE AND TOWNE ROAD.
ELEVATION: 907.84'

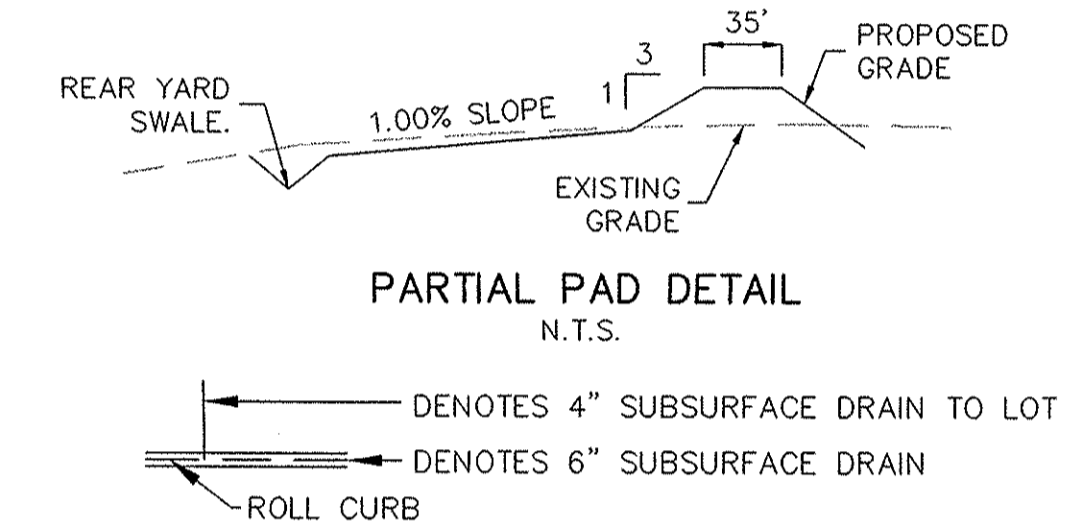
LEGEND

- ← EMERGENCY FLOOD ROUTE
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
- PROPOSED 10' PATH

SCALE: 1" = 50'

LOT NUMBER
14
902.80
M.F.F.=903.50

M.F.P.G. MINIMUM FLOOD PROTECTION GRADE
NO OPENING (DOOR, WINDOW, BASEMENT ACCESS, ETC.) SHALL BE LOWER THAN M.F.P.G.



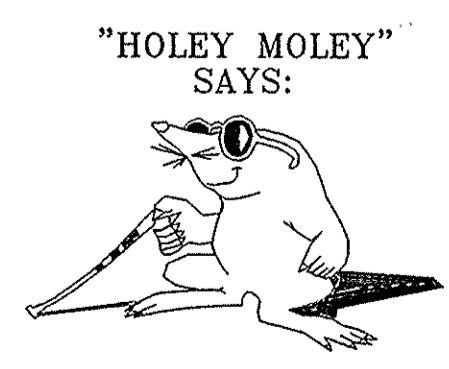
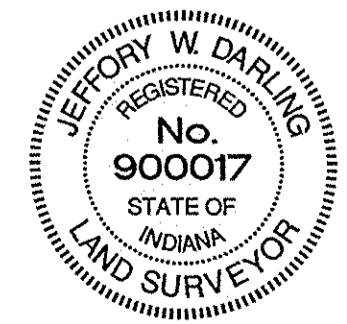
- EARTHWORK:**
- EXCAVATION**
 - Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
 - Provide and place any additional fill material from offsite as may be necessary to produce the grades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

| Str. No. | Structure Type | T.C./Rim | Invert In | Invert Out | Depth | Str. Size | Casting Type | Pipe Size | Dir. Of Pipe | Thickness |
|----------|----------------------|----------|-----------|------------|-------|-----------|--------------|------------|--------------|-----------|
| 400 | CONCRETE END SECTION | | 902.70 | 902.70 | | | | 12 | NE | 1.75 |
| 401 | CONCRETE END SECTION | | 903.30 | 903.30 | | | | 12 | SW | 1.75 |
| 425 | CONCRETE END SECTION | | 904.10 | 904.10 | | | | 18 | NW | 2 |
| 426 | MANHOLE | 910.40 | 904.10 | 904.10 | 4.63 | 30X30 | R-4342 | 18,18 | N, SE | 2 |
| 427A | CONCRETE END SECTION | | 904.10 | 904.10 | | | | 12 | SW | 1.75 |
| 427 | MANHOLE | 911.30 | 904.10 | 904.10 | 5.54 | 30X30 | R-4342 | 18,18 | NE, S | 1.875 |
| 428 | CONCRETE END SECTION | | 904.10 | 904.10 | | | | 18 | SW | 1.875 |
| 429 | CURB INLET | 910.24 | 906.89 | 906.89 | 2.20 | 24X24 | R-3501-N | 12, 12 | NW, NE, SW | 1.75 |
| 430 | CURB INLET | 910.71 | 907.40 | 907.40 | 2.16 | 24X24 | R-3501-N | 12 | NE | 1.75 |
| 431 | CURB INLET | 910.24 | 906.94 | 906.94 | 2.15 | 24X24 | R-3501-N | 12 | SE | 1.75 |
| 432 | CONCRETE END SECTION | | 904.10 | 904.10 | | | | 33 | SE | 2.875 |
| 433 | CURB INLET | 909.54 | 904.38 | 904.38 | 2.17 | 42X42 | R-3501-N | 15, 33, 30 | NW, E, W | 2.875 |
| 434 | CURB INLET | 909.54 | 904.47 | 904.47 | 2.34 | 42X42 | R-3501-N | 30, 30 | NE, SW | 2.75 |
| 435 | YARD INLET | 910.00 | 904.98 | 904.98 | 2.29 | 42X42 | R-4342 | 30, 30 | W, NE | 2.75 |
| 436 | YARD INLET | 910.50 | 905.69 | 905.69 | 2.08 | 42X42 | R-1772-C | 27, 30, 18 | W, E, S | 2.75 |
| 437 | YARD INLET | 910.00 | 905.83 | 905.83 | 1.70 | 42X36 | R-4342 | 21, 27, 21 | W, E, N | 2.625 |
| 439 | YARD INLET | 910.00 | 907.26 | 907.26 | 0.88 | 36X36 | R-4342 | 21, 18 | E, N | 2.25 |
| 440 | CURB INLET | 911.42 | 907.73 | 907.73 | 2.62 | 30X30 | R-3501-N | 15, 18 | N, S | 2 |
| 441 | CURB INLET | 911.42 | 907.84 | 907.84 | 2.17 | 30X30 | R-3501-N | 12, 15 | N, S | 1.875 |
| 442 | YARD INLET | 910.30 | 908.25 | 908.25 | 0.90 | 24X24 | R-4342 | 12 | S | 1.75 |
| 443 | DOUBLE CURB INLET | 909.97 | 906.30 | 906.30 | 1.75 | 36X36 | R-3501-N | 18, 21 | N, S | 2 |
| 444 | DOUBLE CURB INLET | 909.97 | 906.41 | 906.41 | 1.89 | 30X30 | R-3501-N | 12, 18 | NW, S | 2 |
| 445 | MANHOLE | 911.00 | 906.58 | 906.58 | 3.27 | 24X24 | R-1772-C | 12, 12 | N, SE | 1.75 |
| 446 | YARD INLET | 910.00 | 906.92 | 906.92 | 1.93 | 24X24 | R-4342 | 12 | S | 1.75 |
| 447 | DOUBLE CURB INLET | 910.30 | 906.41 | 906.41 | 2.22 | 30X30 | R-1772-C | 18, 18 | N, S | 2 |
| 448 | CURB INLET | 910.30 | 906.50 | 906.50 | 2.13 | 30X30 | R-3501-N | 18, 12 | N, SW | 2 |
| 449 | MANHOLE | 910.70 | 906.66 | 906.66 | 2.89 | 24X24 | R-1772-C | 12, 12 | NE, S | 1.75 |
| 450 | YARD INLET | 909.60 | 907.30 | 907.30 | 1.15 | 24X24 | R-4342 | 12 | N | 1.75 |
| 451 | CURB INLET | 910.03 | 906.08 | 906.08 | 2.55 | 30X30 | R-3501-N | 12, 15 | NW, SE | 1.75 |
| 452 | YARD INLET | 908.50 | 906.50 | 906.50 | 0.85 | 24X24 | R-4342 | 12 | SE | 1.75 |
| 453 | CONCRETE END SECTION | | 904.10 | 904.10 | | | | 12 | NE | 1.75 |
| 454 | CURB INLET | 909.77 | 906.08 | 906.08 | 2.53 | 24X24 | R-3501-N | 12, 12 | N, SW | 1.875 |
| 455 | CURB INLET | 909.77 | 906.22 | 906.22 | 2.39 | 24X24 | R-3501-N | 12 | S | 1.875 |

RECORD DRAWING

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017

10/12/05
DATE

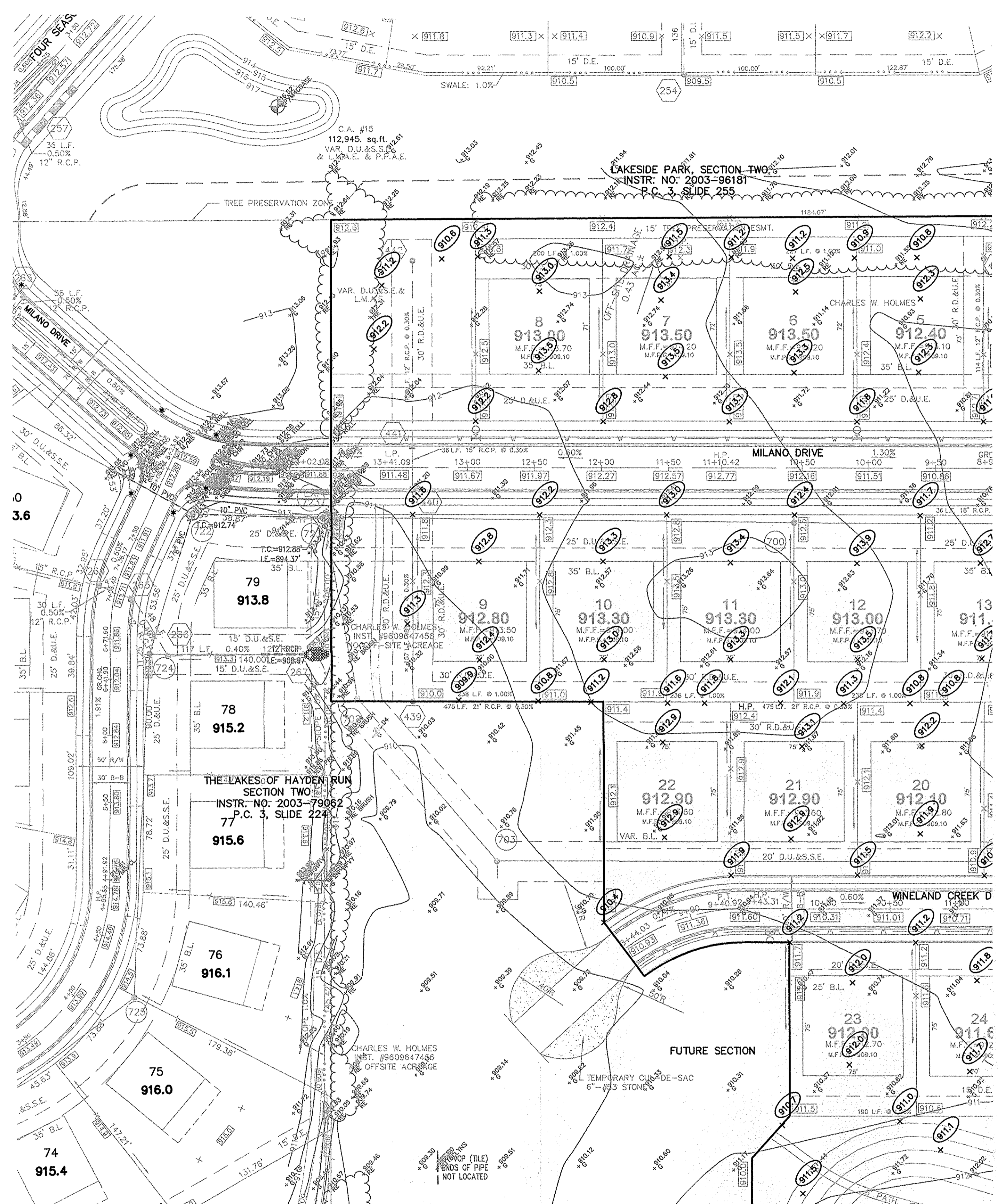
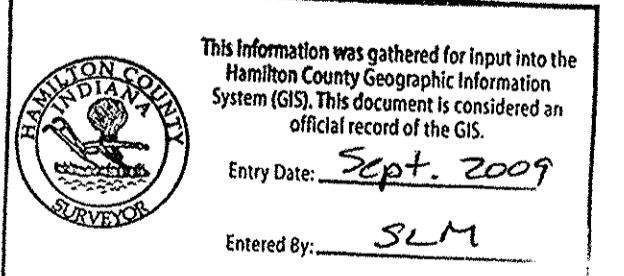


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1-800-428-5200
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1-317-571-2648
CALL CARMEL UTILITIES
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CAUTION
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ASBUILT PER AGENCY COMMENTS
REVISED PER AGENCY COMMENTS
REVISED PER A.C.S.O. COMMENTS
REVISED PER AGENCY COMMENTS

DATE: 11/1/04

CERTIFIED: 11/1/04

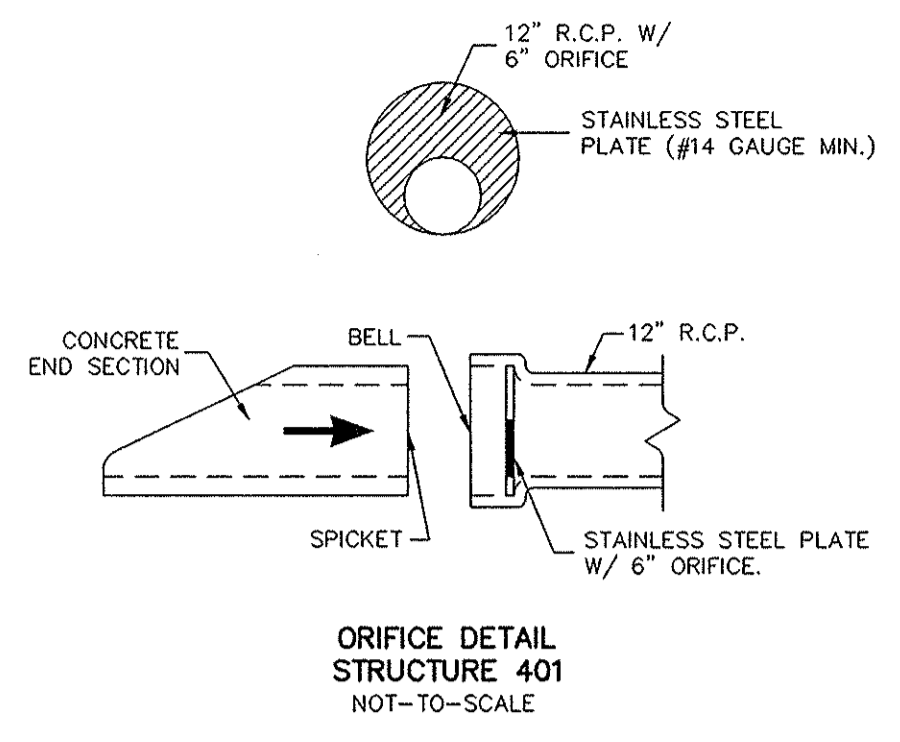
CONSULTING ENGINEERS - LAND SURVEYORS
FISHERS
INDIANA
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942

SITE DEVELOPMENT PLAN
THE LAKES AT TOWNE ROAD
SECTION ONE
CARMEL
INDIANA

SHEET NO.
C201
JOB NO. 4870051

NOTE: A DEBRIS GUARD SHALL BE INSTALLED ON ALL UPSTREAM OPEN ENDED INLETS AND AT THE POND OUTFALL PIPE.

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.



RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 10/12/05

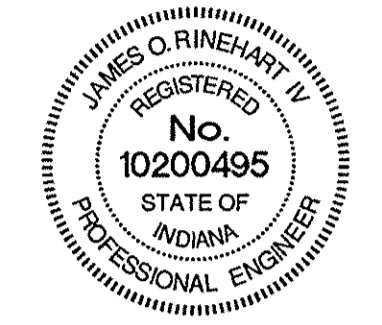


LEGEND

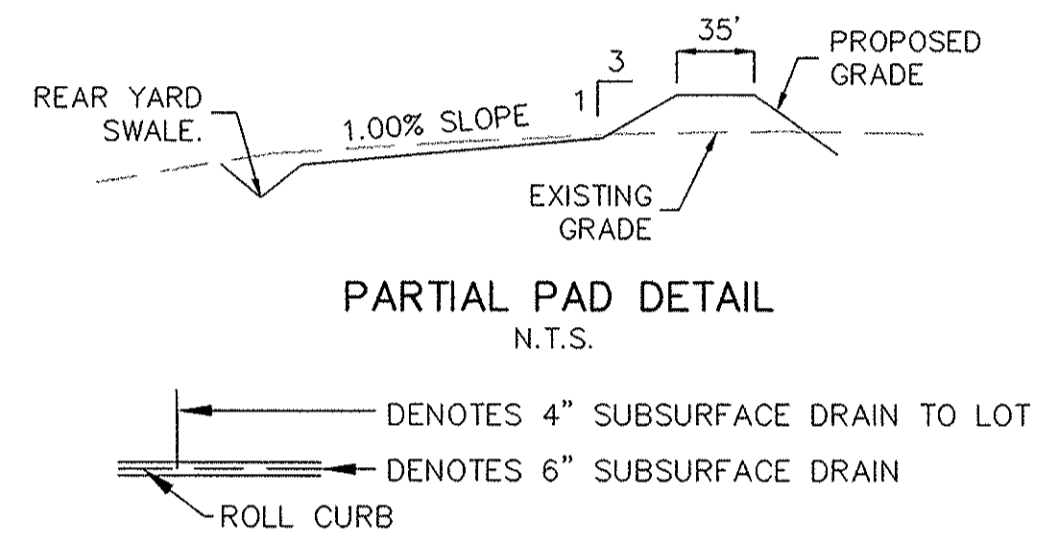
- EMERGENCY FLOOD ROUTE
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
- PROPOSED 10' PATH

SCALE: 1" = 50'

14 LOT NUMBER
 902.80 PAD ELEVATION
 M.F.F.=903.50 PAD SIZE 80'x70' (UNLESS OTHERWISE NOTED)



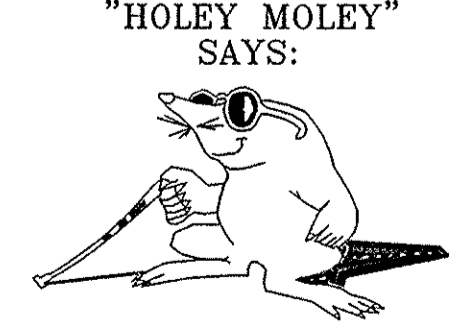
M.F.P.G. MINIMUM FLOOD PROTECTION GRADE
 NO OPENING (DOOR, WINDOW, BASEMENT ACCESS, ETC.) SHALL BE LOWER THAN M.F.P.G.



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

TBM # 9
 RAILROAD SPIKE, UP 1'± ON THE WEST SIDE OF A POWER POLE # 13423, LOCATED ALONG THE SOUTH SIDE OF STONE DRIVE TO ADDY # 13405 AND TOWNE ROAD EAST SIDE OF TOWNE ROAD.
 ELEVATION: 908.59'

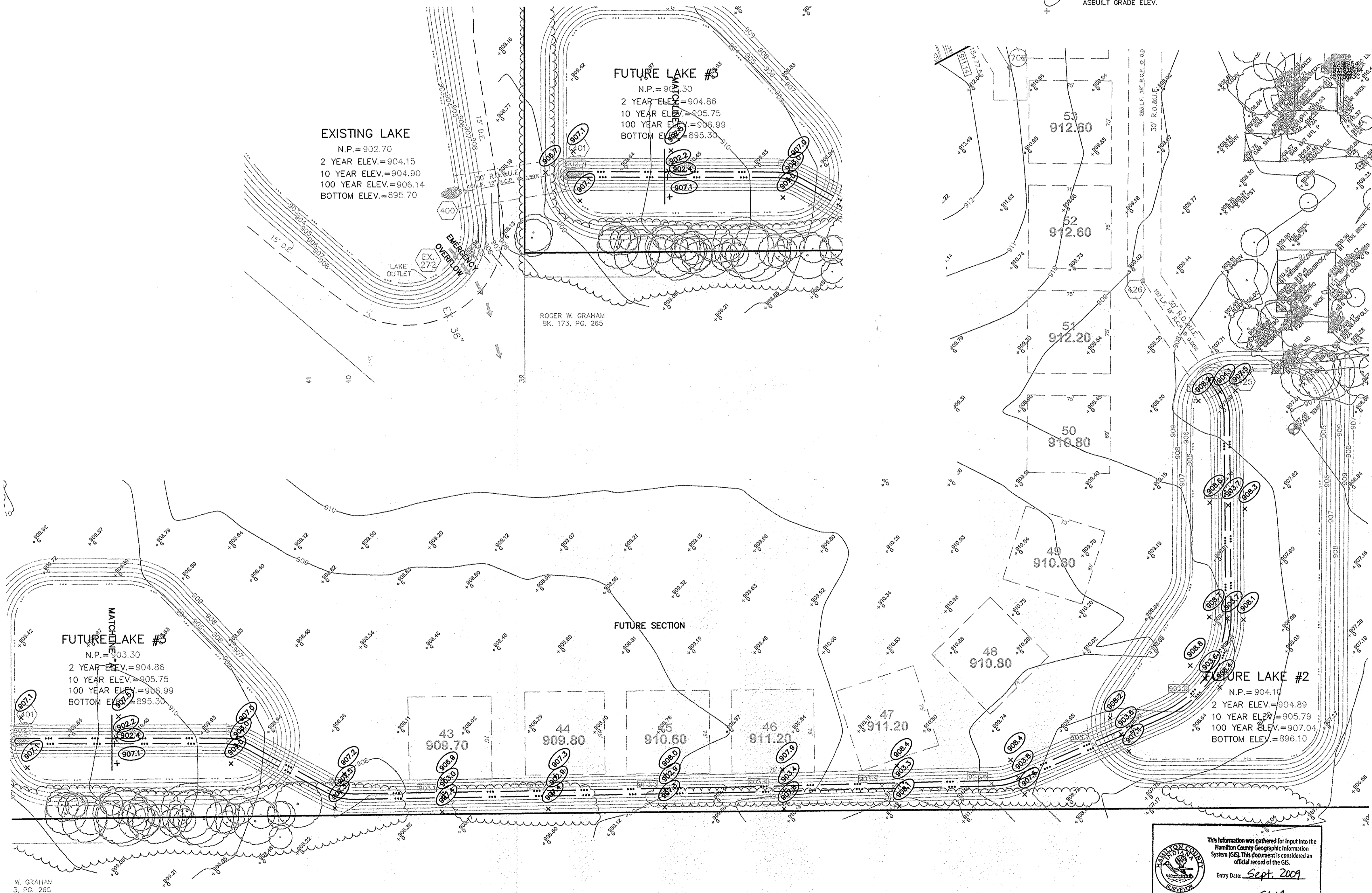
S&A #2
 RAILROAD SPIKE, UP 1'± ON THE WEST SIDE TELEPHONE POLE, LOCATED 136TH ST., 3RD POLE ON THE NORTH SIDE AND TOWNE ROAD.
 ELEVATION: 907.84'



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 CALL TOLL FREE
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 FOR CALLS OUTSIDE OF INDIANA
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 Entry Date: Sept. 2009
 Entered By: SLM



| NO. | DATE | BY | REVISIONS |
|-----|---------|----|-----------|
| 1 | 11/1/04 | | |

| | | |
|--------------------------------|----------|------|
| APPROVED BY | DATE | MARK |
| RECEIVED PER AGENCY COMMENTS | 10/12/05 | |
| RECEIVED PER AGENCY COMMENTS | 11/18/05 | |
| RECEIVED PER AGENCY COMMENTS | 2/2/06 | |
| RECEIVED PER AGENCY COMMENTS | 1/25/06 | |
| RECEIVED PER A.C.S.O. COMMENTS | 1/26/06 | |
| RECEIVED PER AGENCY COMMENTS | 12/16/04 | |

| | |
|--------|----------|
| OWN BY | DATE |
| K/M/C | 11/1/04 |
| OK BY | |
| B/R | |
| SCALE | 1" = 50' |
| DATE | 11/1/04 |

CERTIFIED: 11/1/04

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

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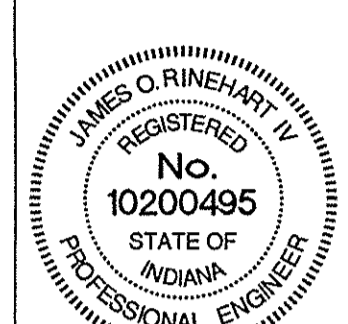
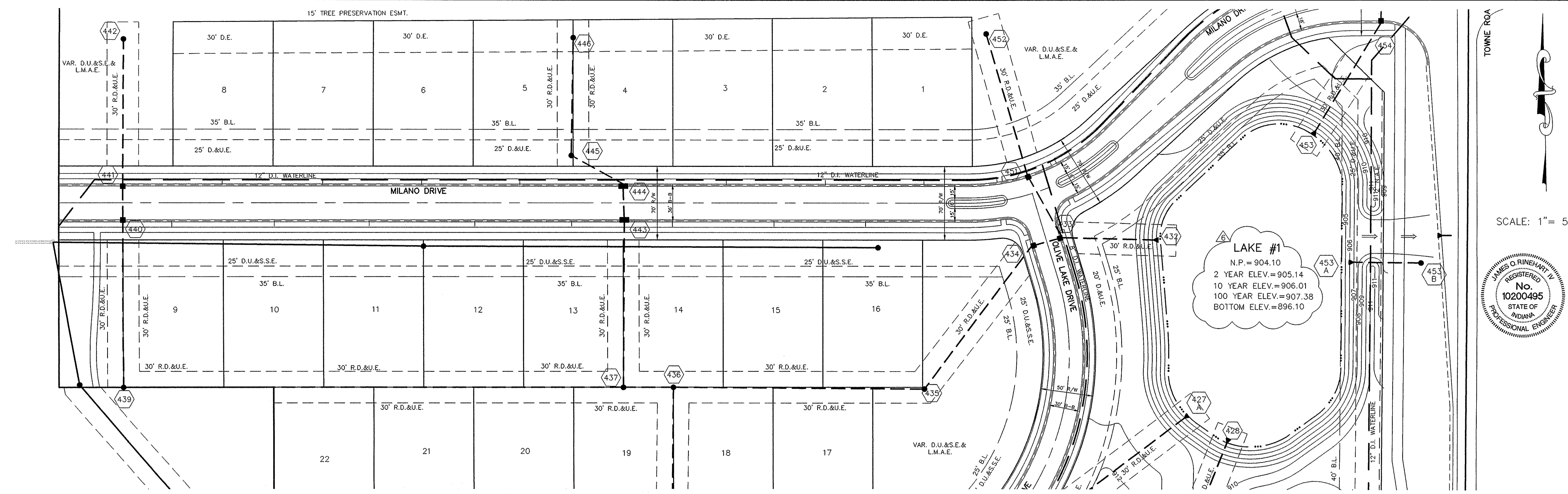
INDIANA

SITE DEVELOPMENT PLAN
 THE LAKES AT TOWNE ROAD
 SECTION 8

CARMEL

SHEET NO.
C202

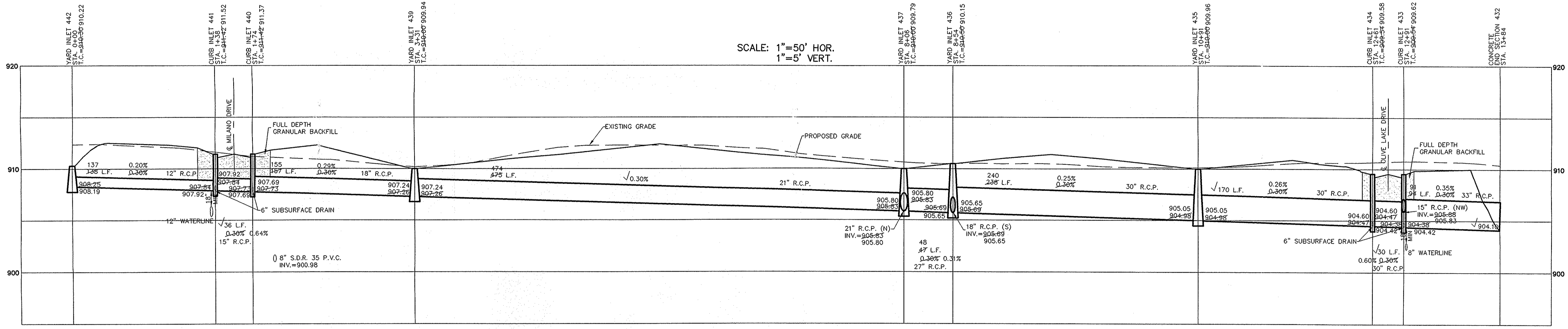
JOB NO. 4870051



| DATE | BY | REVISIONS |
|----------|----|-----------|
| 11/1/04 | | |
| 12/8/04 | | |
| 1/6/05 | | |
| 2/2/05 | | |
| 3/18/05 | | |
| 7/21/05 | | |
| 10/12/05 | | |

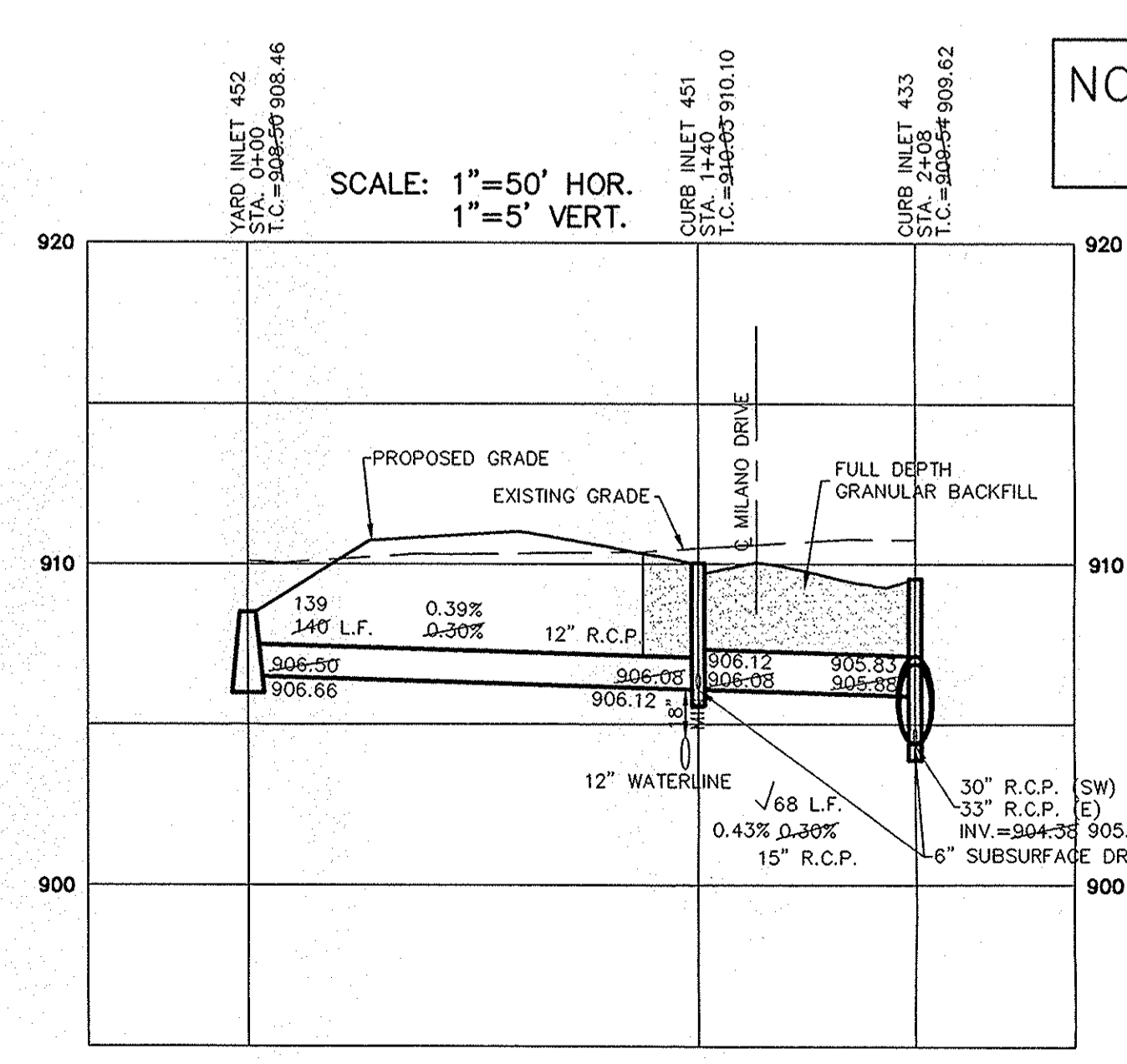
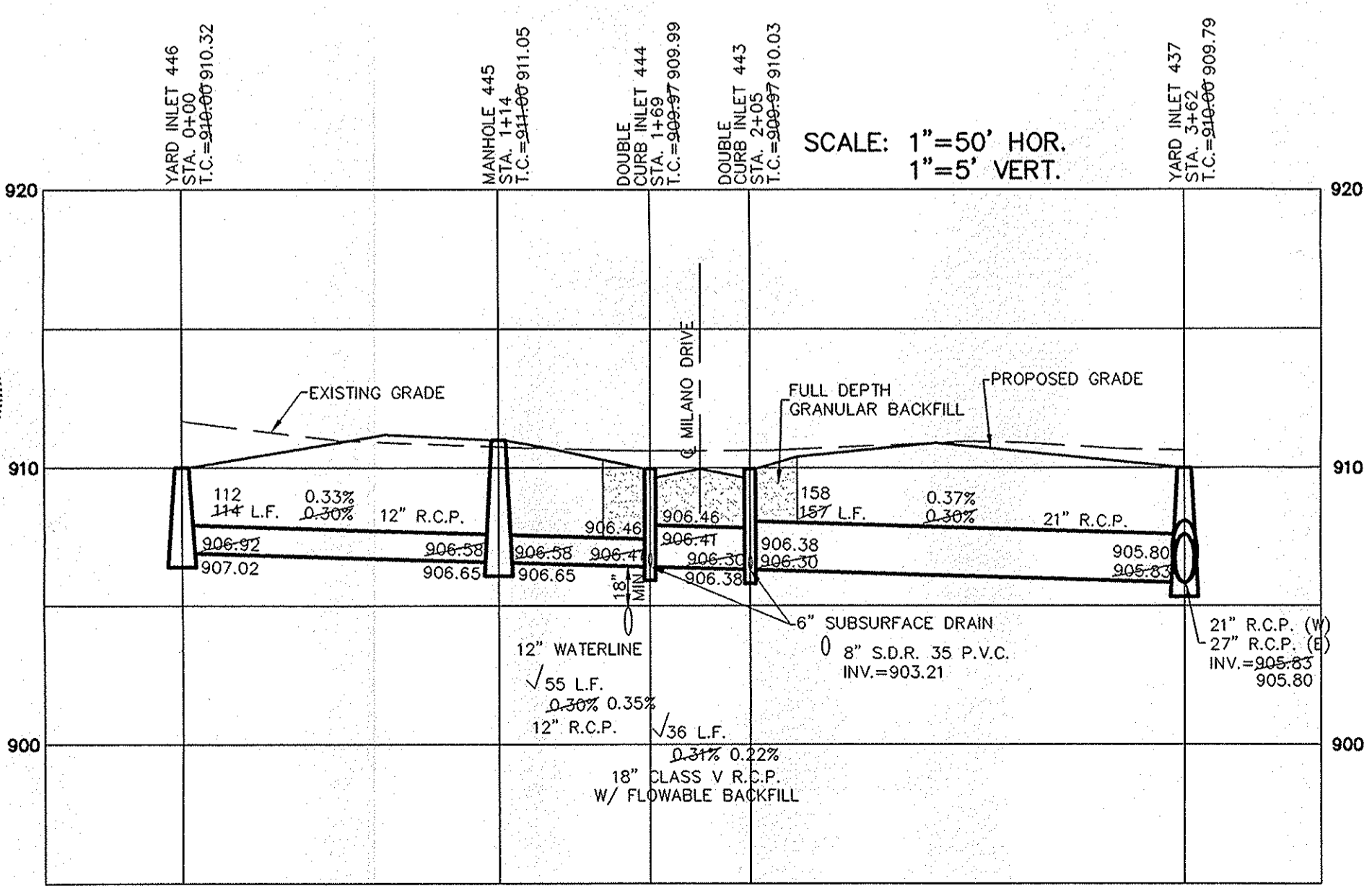
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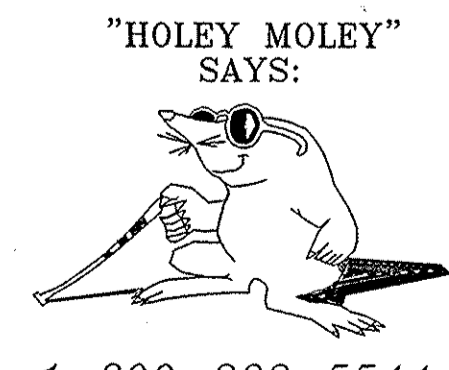
RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017



NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE".

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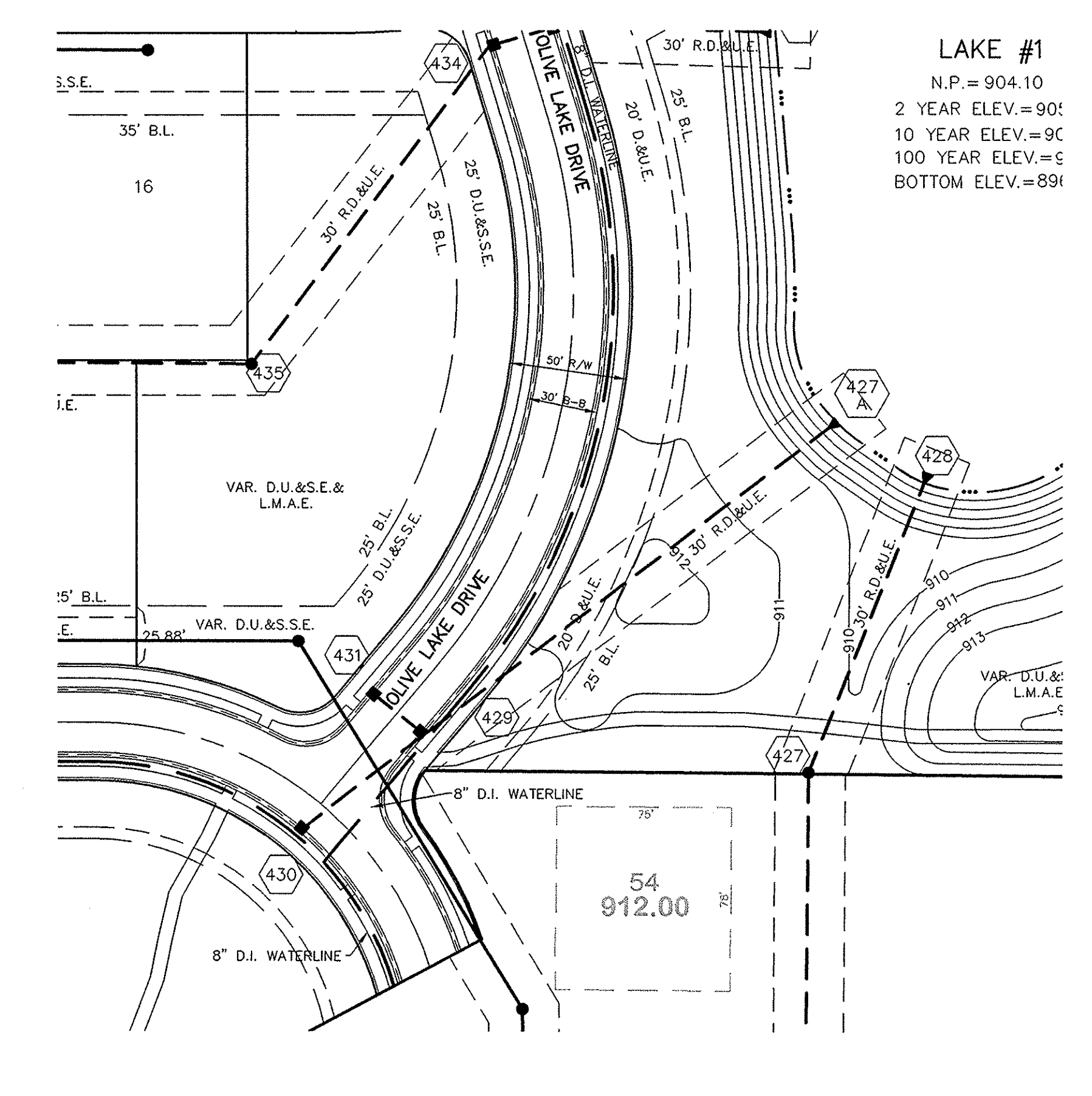
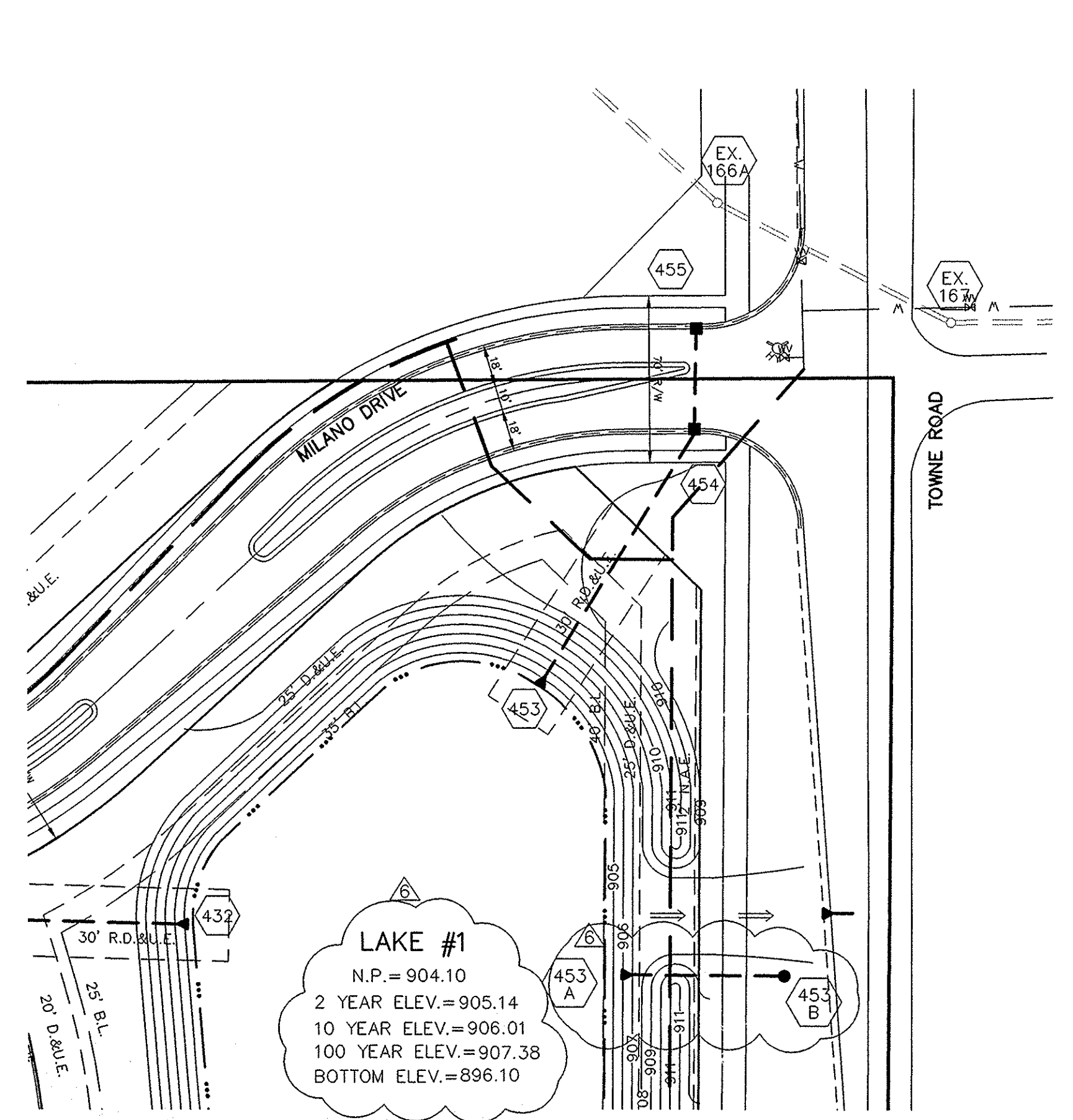
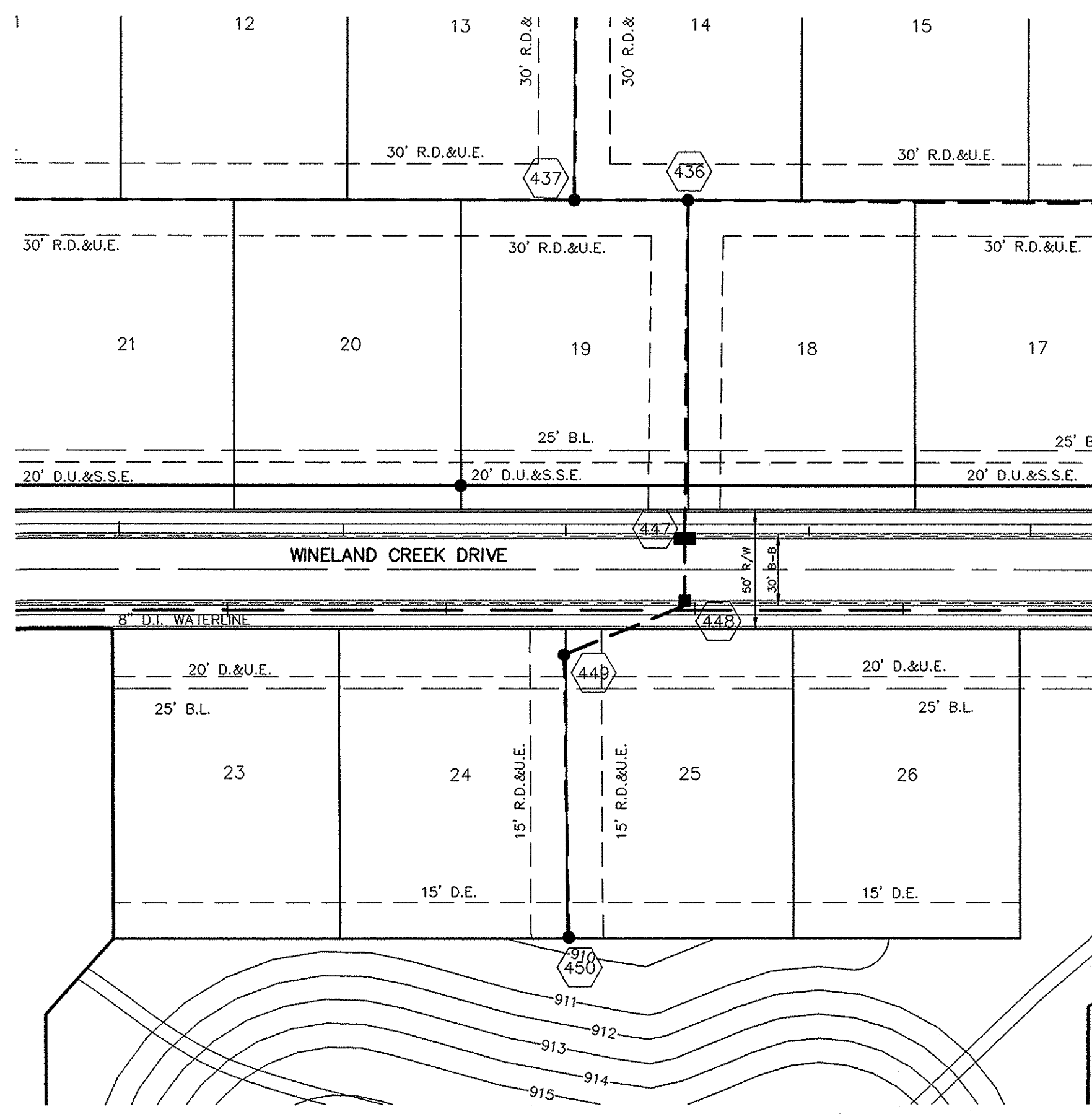
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INDIANA
 CARMEL

STORM SEWER PLAN & PROFILES
 THE LAKES AT TOWNE ROAD
 SECTION ONE

SHEET NO.
C600

JOB NO. 4870051



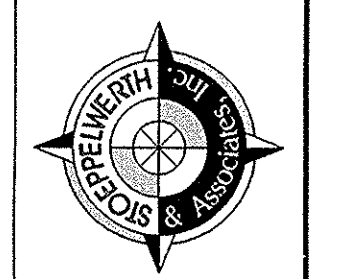
LAKE #1
 N.P. = 904.10
 2 YEAR ELEV. = 90.1
 10 YEAR ELEV. = 90
 100 YEAR ELEV. = 89
 BOTTOM ELEV. = 89

SCALE: 1" = 50'

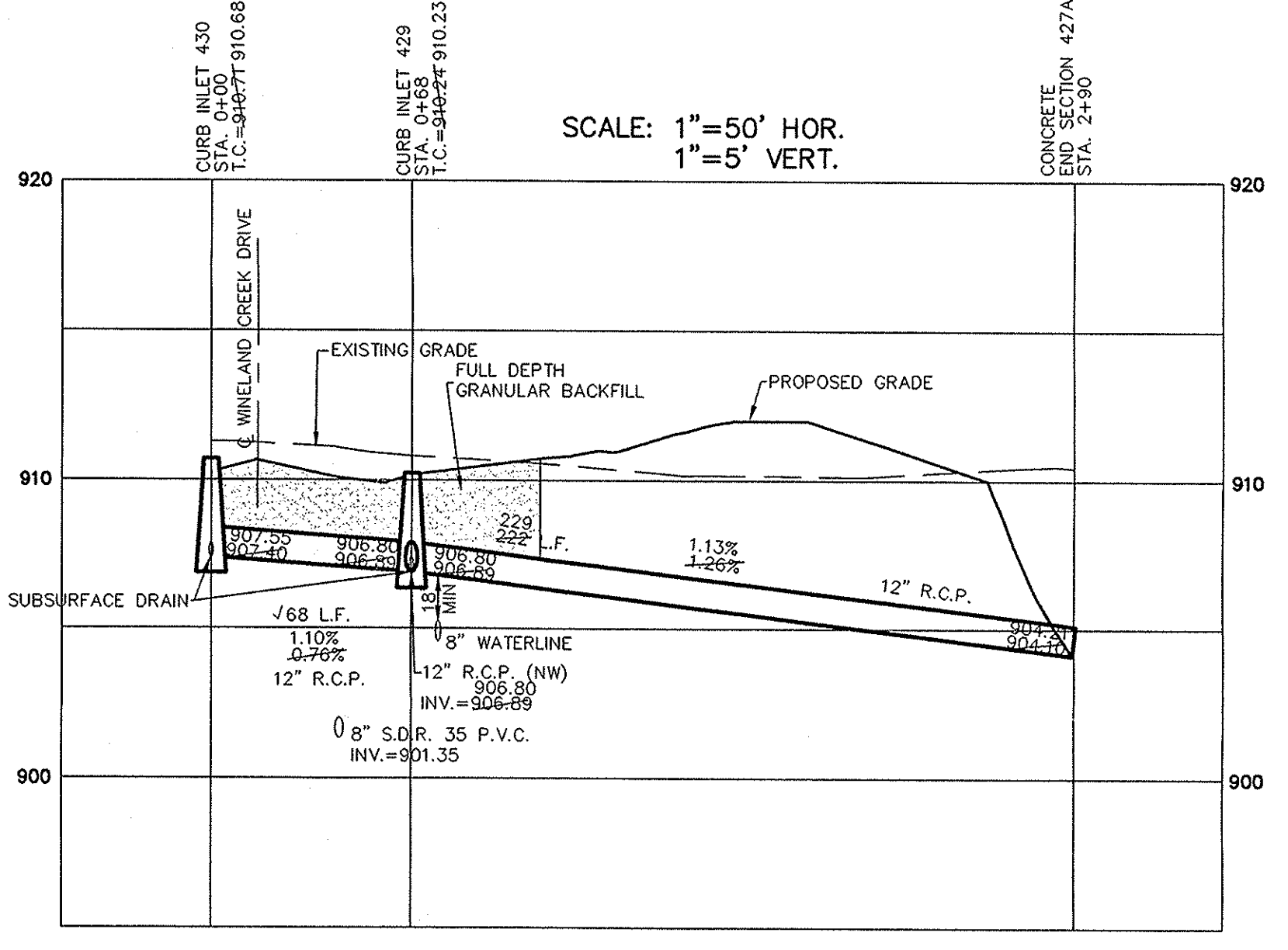
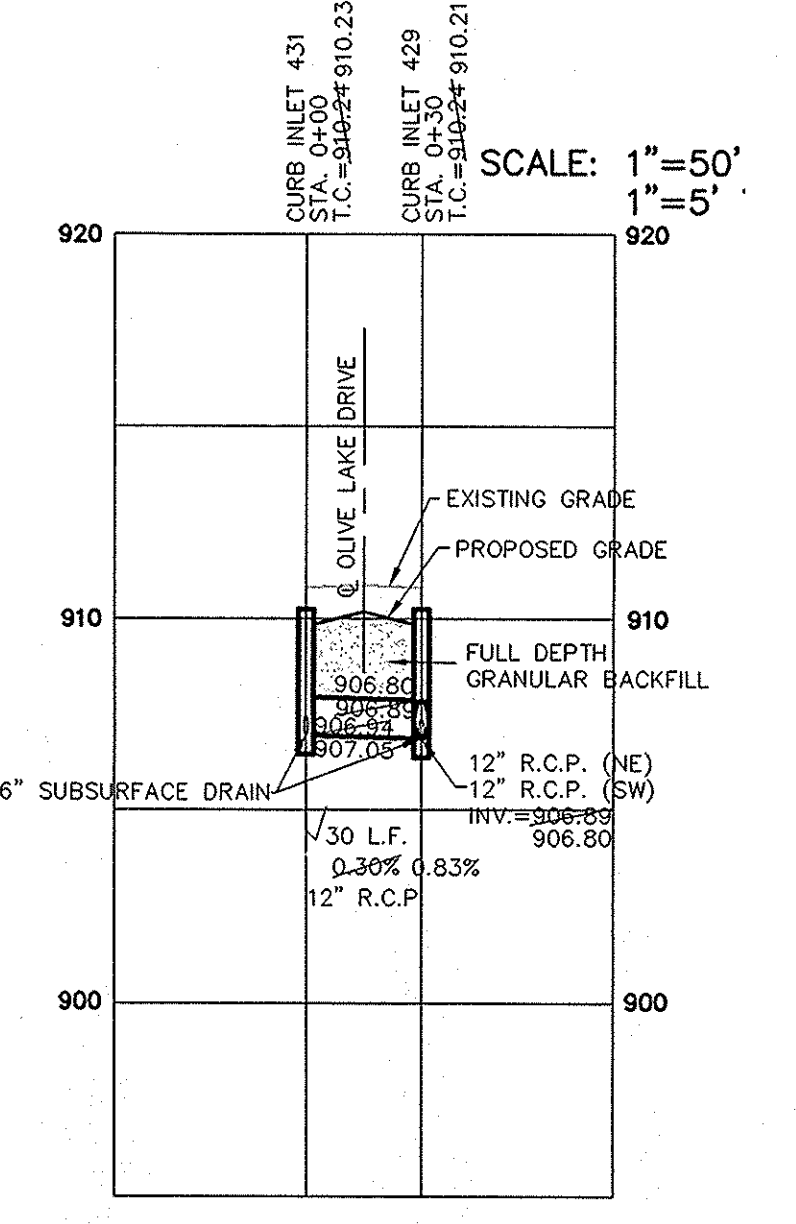
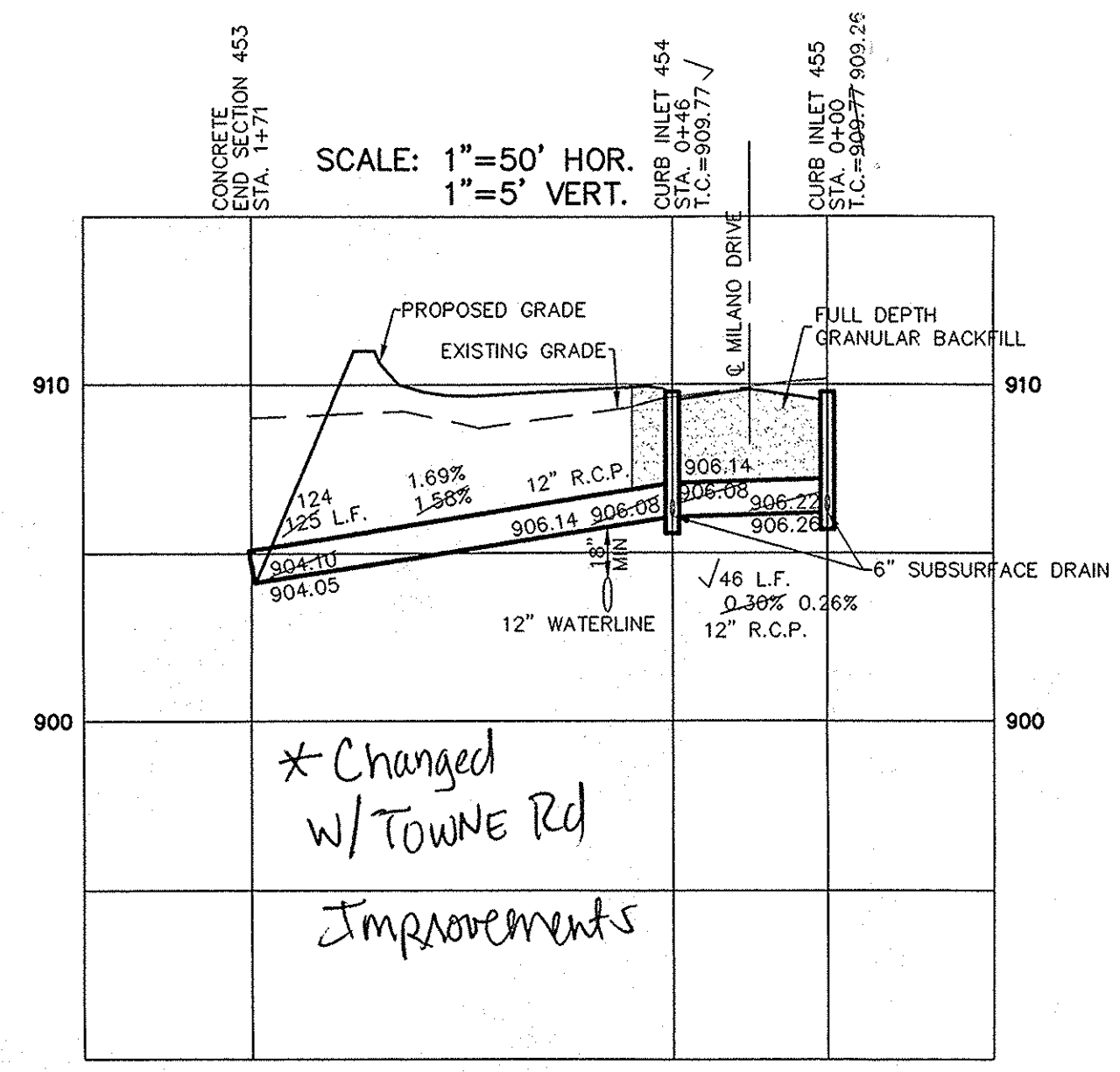
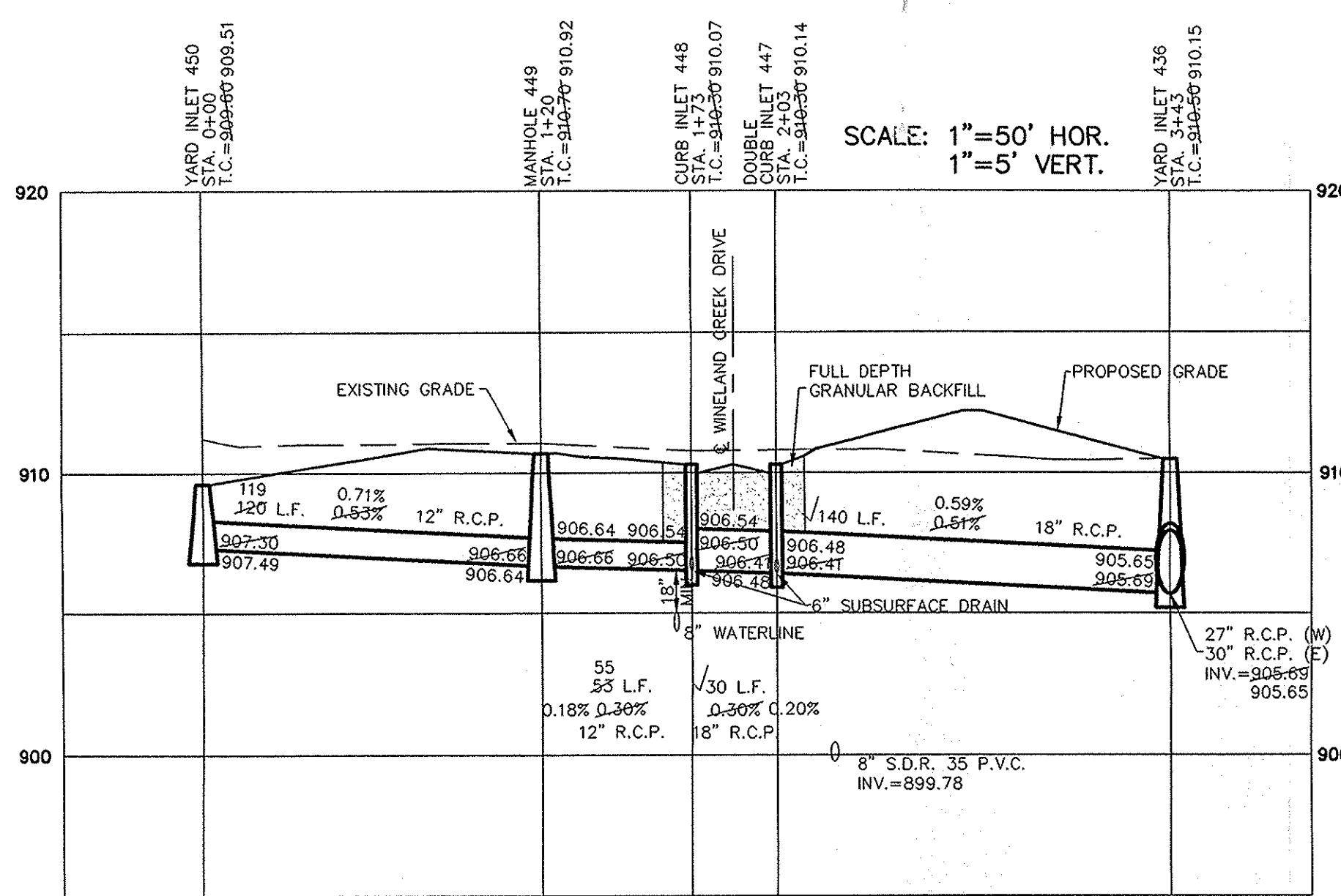


| DATE | REVISIONS | BY |
|---------|-----------|----|
| 11/1/04 | | |

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 FISHERS

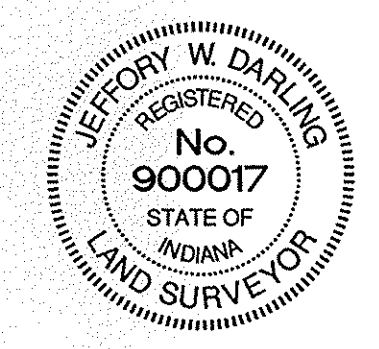


INDIANA
 STORM SEWER PLAN & PROFILES
 THE LAKES AT TOWNE ROAD
 SECTION ONE
 CARMEL

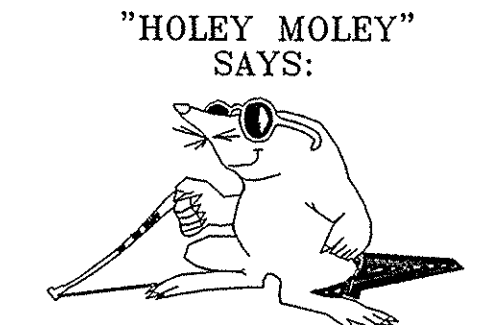
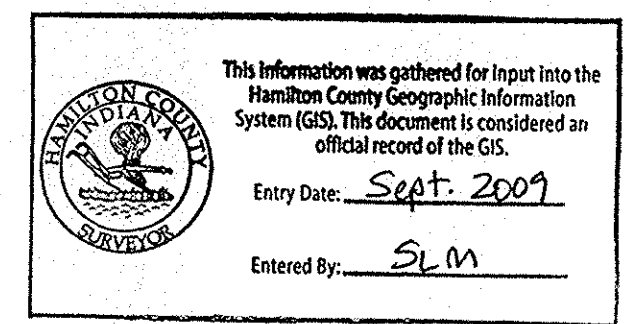


RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 10/12/05

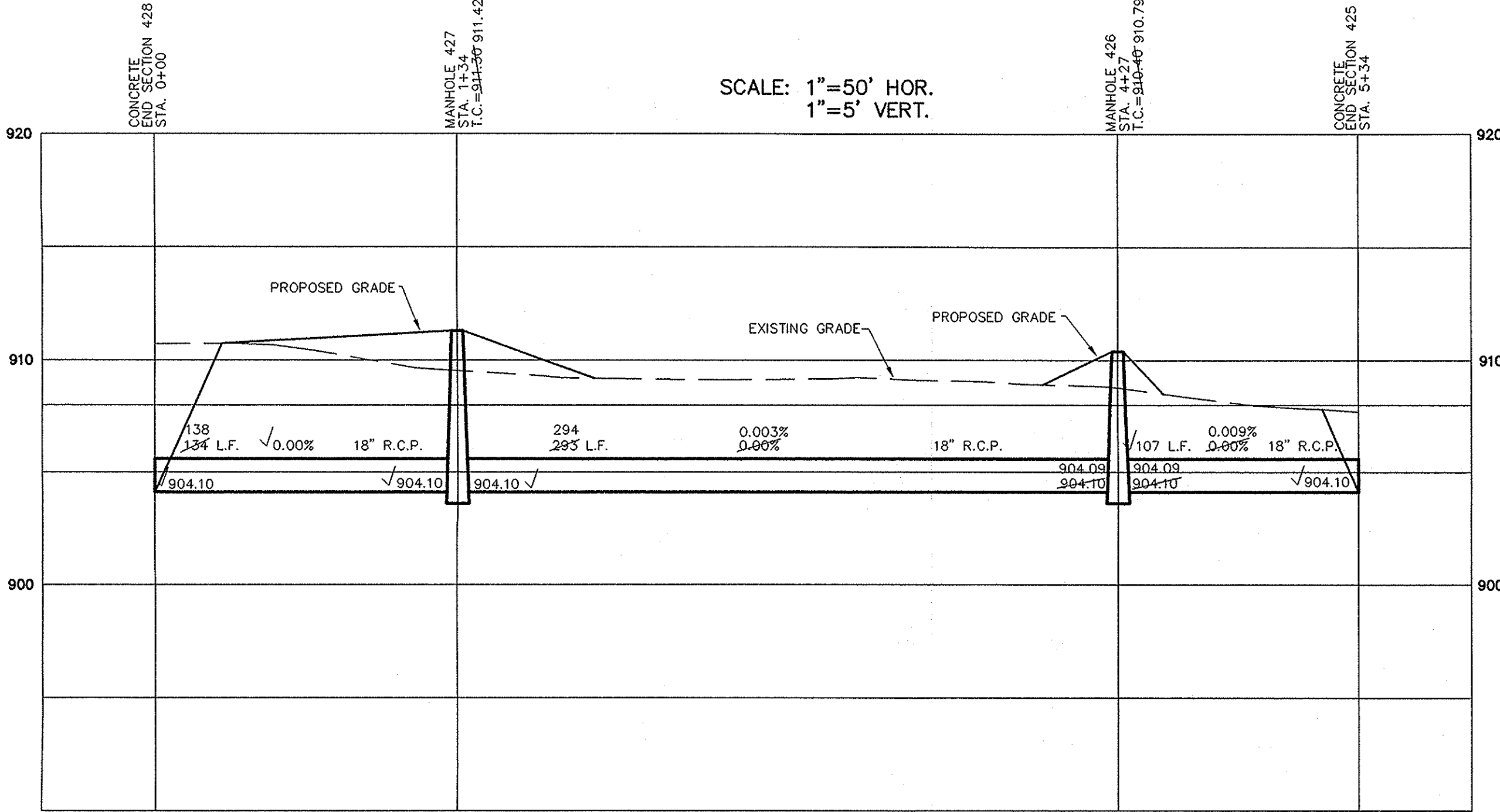
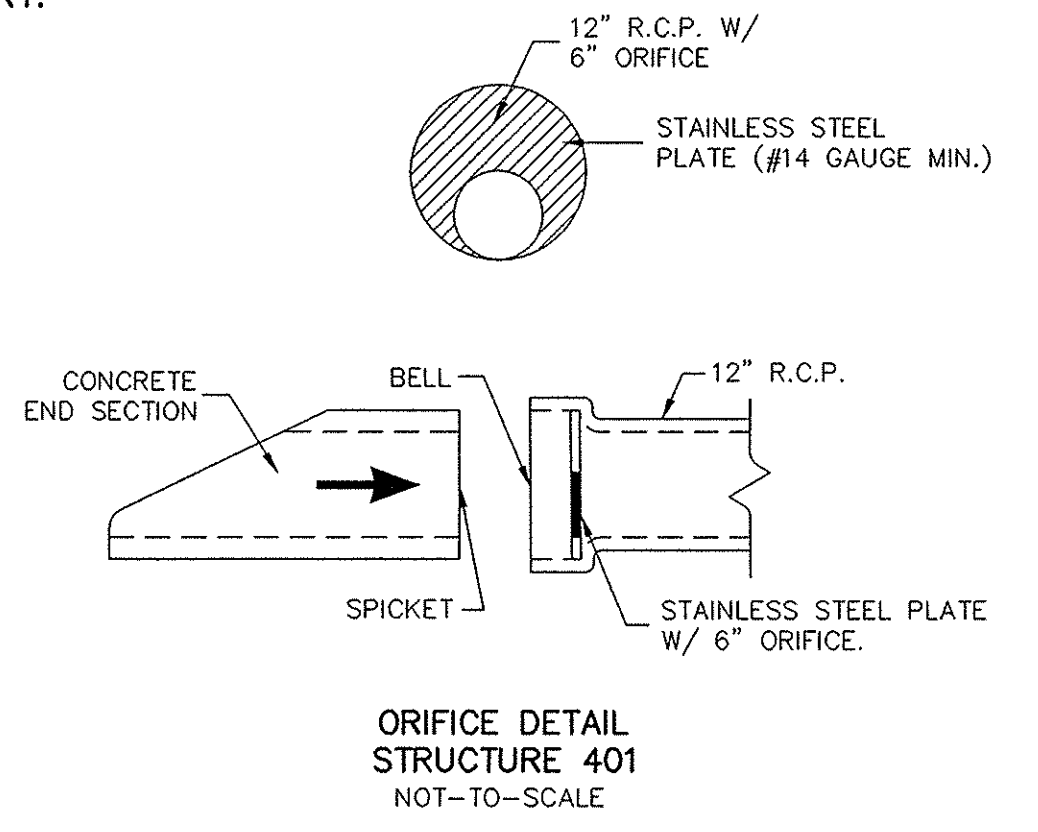
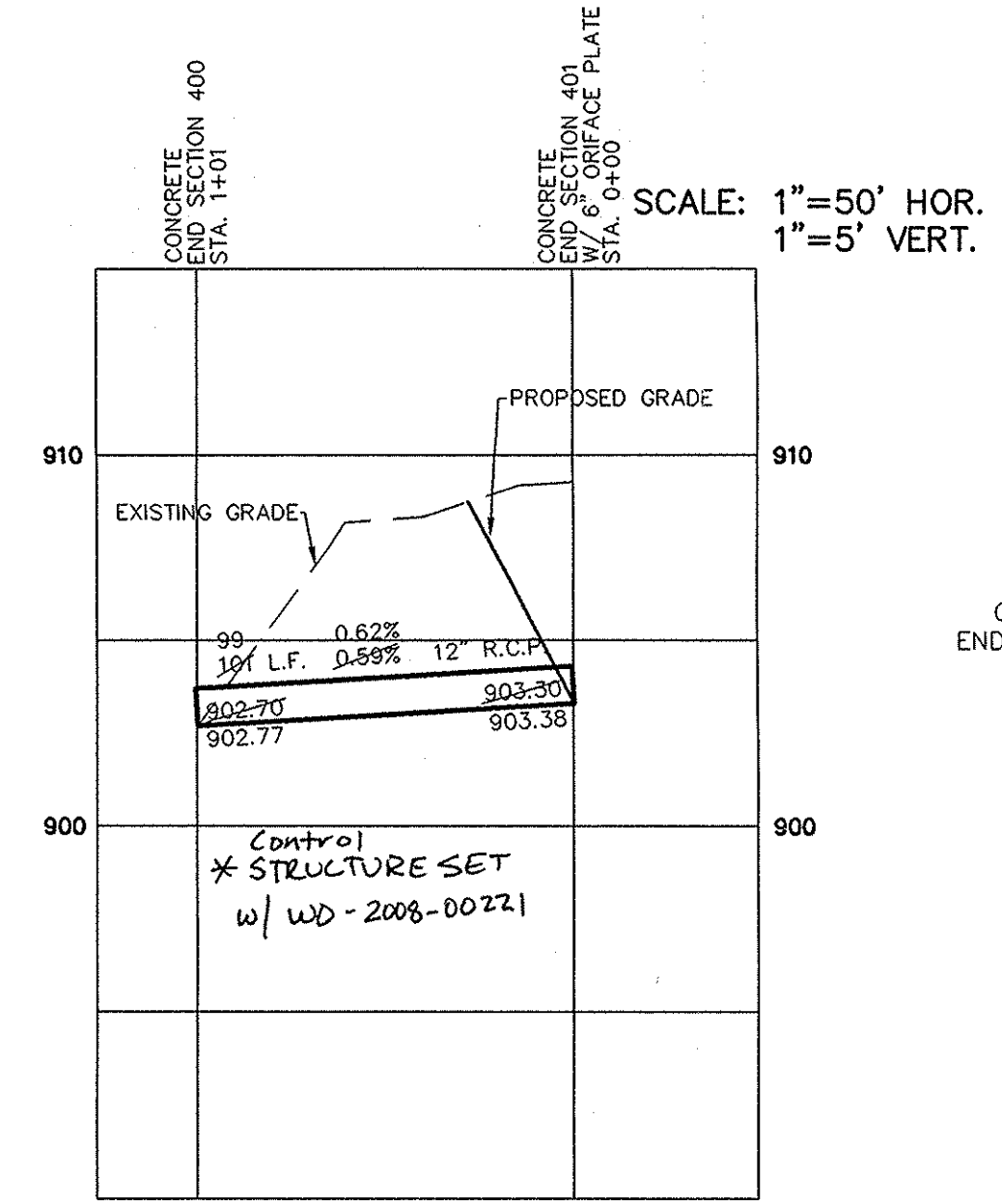
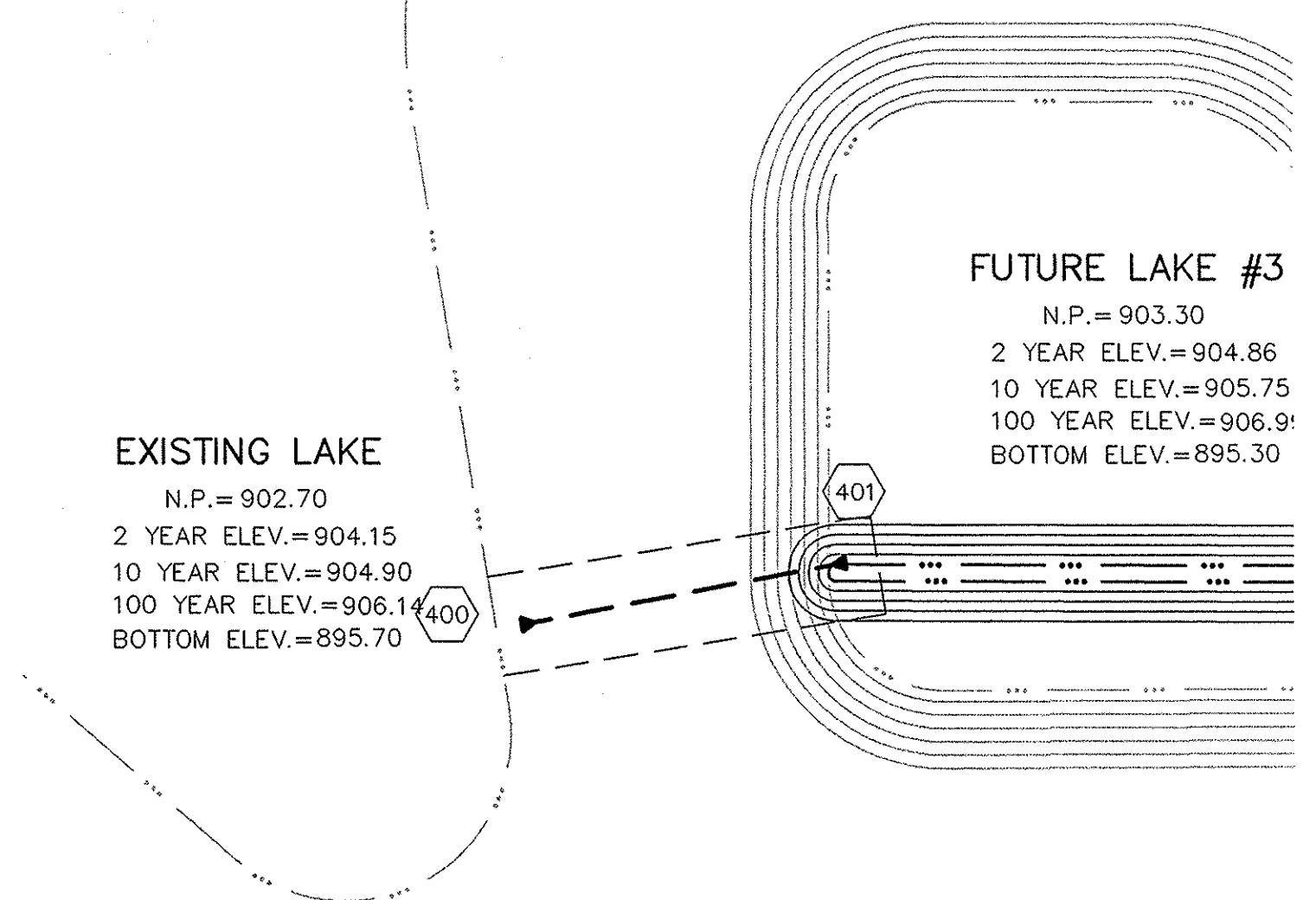
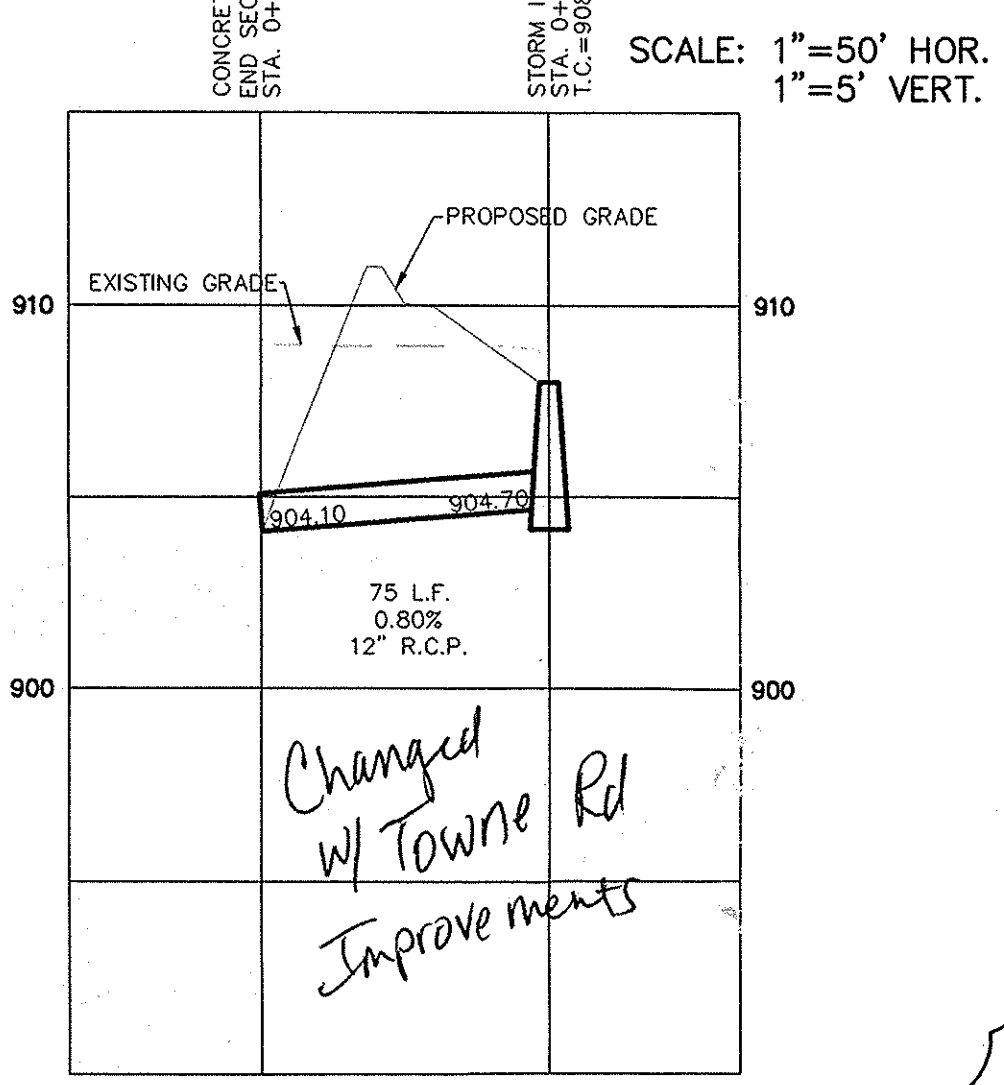
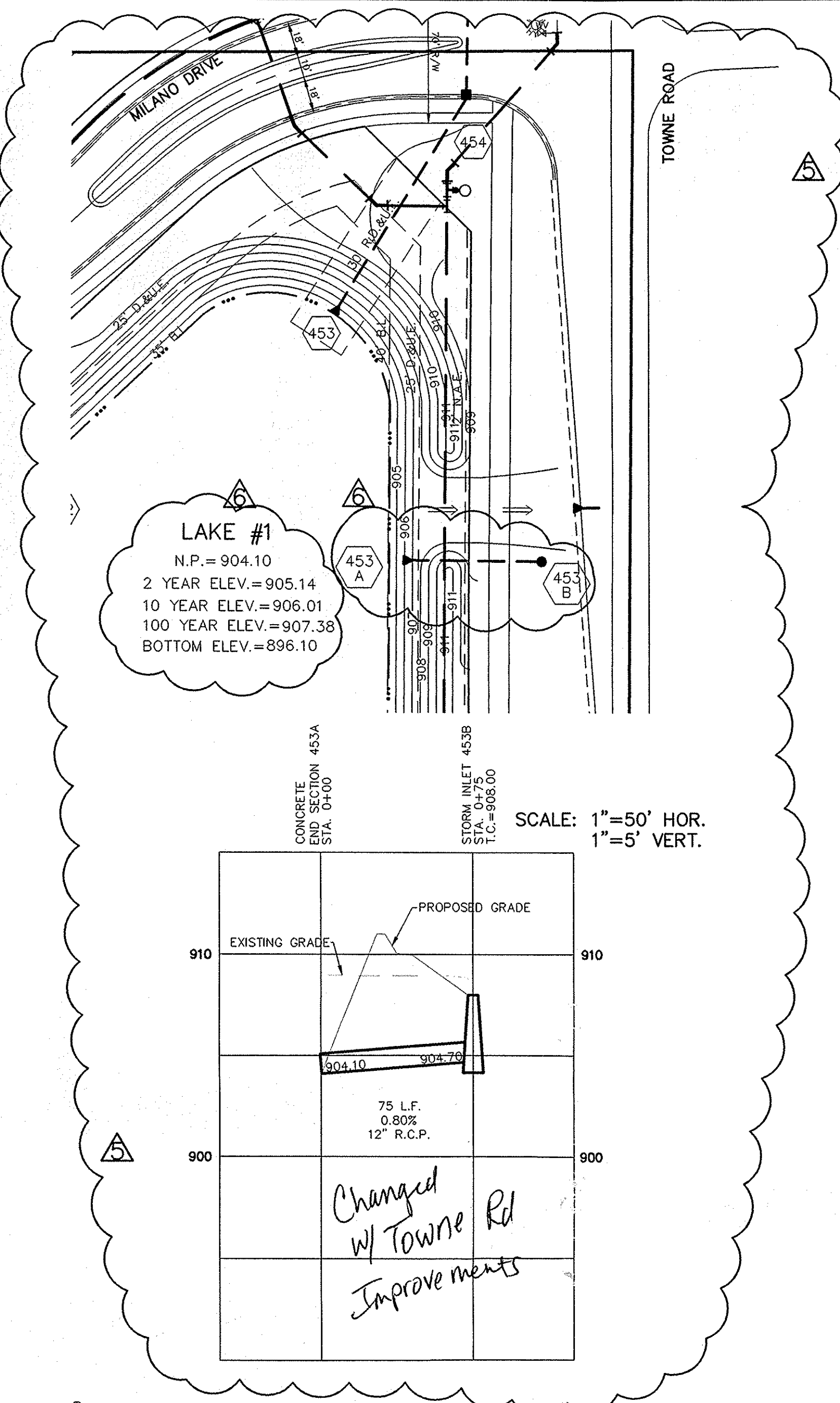
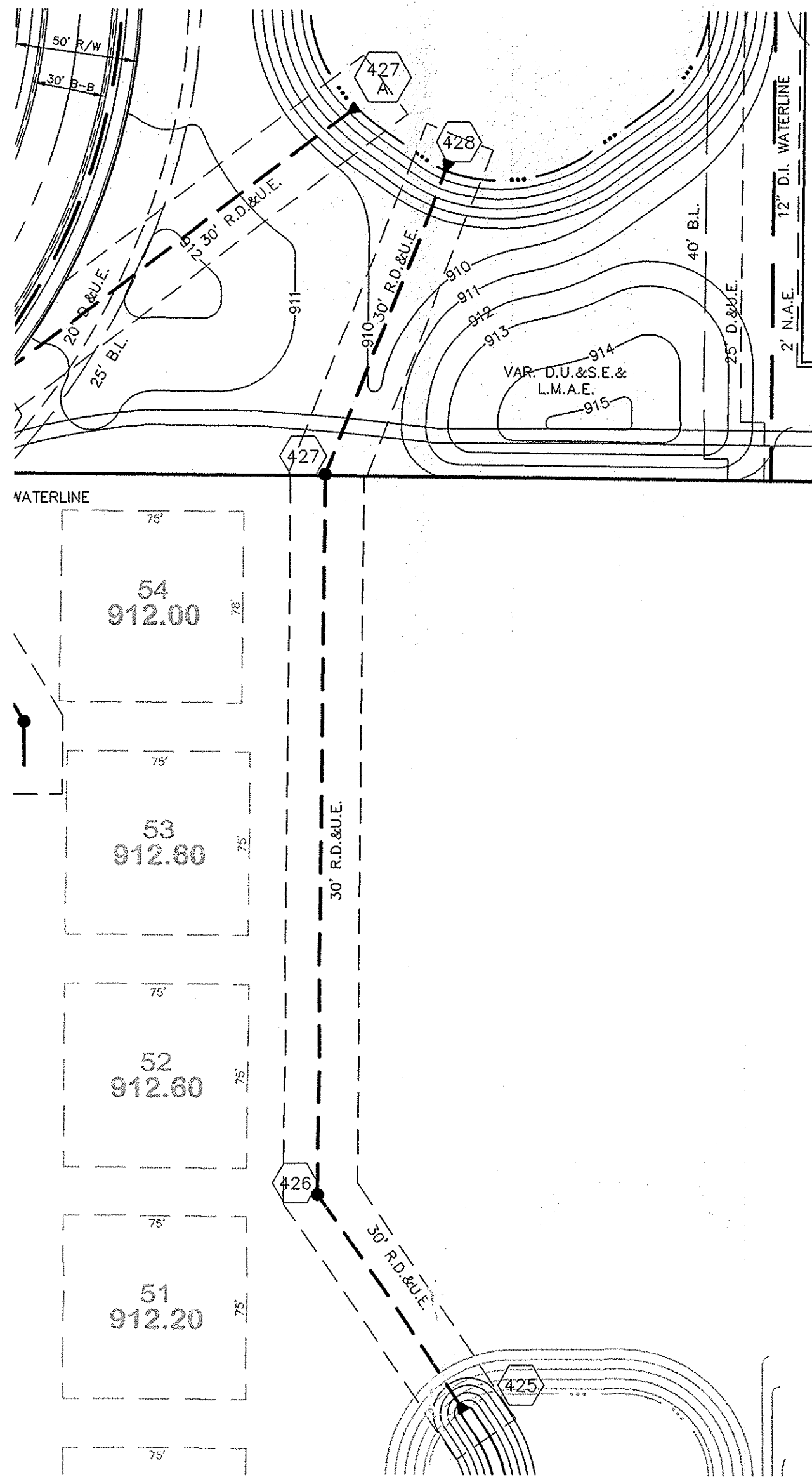


NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE".



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 (FOR WATER MAIN LOCATIONS)

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Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 10/12/05



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| | | | |
|---|----------|-----------------|--|
| REVISED PER SURVEYOR'S COMMENTS | 10/12/05 | BY | |
| ADDED A STORM PIPE | 7/27/05 | BY | |
| REVISED PER AGENCY COMMENTS | 7/05/05 | BY | |
| REVISED PER AGENCY COMMENTS | 3/19/05 | BY | |
| REVISED PER AGENCY COMMENTS | 2/22/05 | BY | |
| REVISED PER AGENCY COMMENTS | 1/2/05 | BY | |
| REVISED PER AGENCY COMMENTS | 12/8/04 | BY | |
| REVISIONS | DATE | MARK | |
| | 11/1/04 | | |
| CERTIFIED: 11/1/04 | | | |
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| (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942 | | FISHERS | |
| STORM SEWER PLAN & PROFILES | | INDIANA | |
| THE LAKES AT TOWNE ROAD | | CARMEL | |
| SECTION ONE | | SHEET NO. | |
| | | C602 | |
| | | JOB NO. 4870051 | |