

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*

June 6, 2006

To: Hamilton County Drainage Board

Re: Towne Lake Drain, Windsor Grove II Arm

Attached is a petition filed by Steve A. Wilson, Inc. along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Windsor Grove II Arm, Towne Lake 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	5,083 ft.	18" RCP	962 ft.	27" RCP	289 ft.
12" RCP	993 ft.	21" RCP	24 ft.	30" RCP	43 ft.
15" RCP	520 ft.	24" RCP	365 ft.	Open Ditch	468 ft.

The total length of the drain will be 8,747 feet.

The retention ponds (Lakes #1, 2, and existing pond) located in Common Area #2 and #5 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 (lakes), 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 ponds (lakes) 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 and those main lines between lots or in rear yards. 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.

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 \$2.00 per acre for common areas and platted lots, \$2.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$1,106.10.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Letter of Credit are as follows:

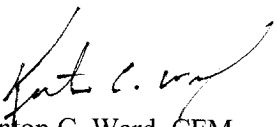
Agent: Irwin Union Bank  
Date: March 20, 2006  
Number: 18-06  
For: Storm Sewers, SSD and Erosion Control  
Amount: \$246,360.00

Parcels assessed for this drain will also be assessed for the Fitch & Jessup Drain.

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 Windsor Grove II as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 27, 2006.



Kenton C. Ward, CFM  
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 Windsor Grove II Subdivision, Section  
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 Windsor Grove II, 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

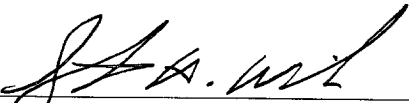
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

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

Steven A. Wilson  
\_\_\_\_\_  
Printed Name

January 3, 2005  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

FINDINGS AND ORDER

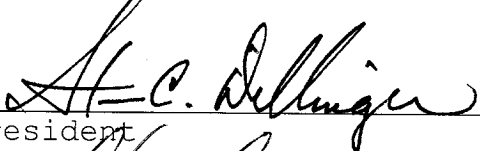
CONCERNING THE MAINTENANCE OF THE

Towne Lake Drain, Windsor Grove Section II Arm

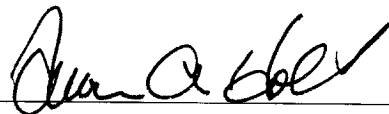
On this **27th day of November, 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Towne Lake Drain, Windsor Grove Section II Arm**.


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.

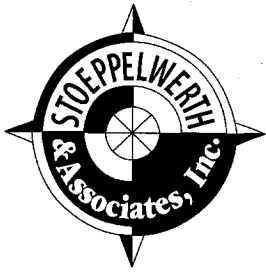
HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

Attest: 



# CONSULTING ENGINEERS • LAND SURVEYORS

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

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

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

## CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **Windsor Grove II**

I hereby certify that:

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

Signature: *Jeffery W. Darling* Date: October 12, 2006

Type or Print Name: Jeffery W. Darling

Business Address: Stoepfelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

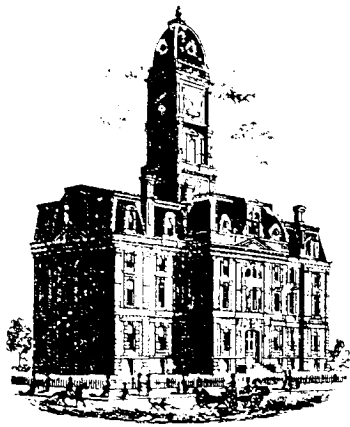
Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017





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**

**February 8, 2007**

**Re: Towne Lakes: Windsor Grove Section 2**

Attached are as-builts, certificate of completion & compliance, and other information for Windsor Grove Section 2. 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 6, 2006. The report was approved by the Board at the hearing held November 27, 2006. (See Drainage Board Minutes Book 9, Pages 584-586) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes(ft):
615-614	154	12	RCP	890.58	887.6	1.94	12
614-613	30	15	RCP	887.6	887.43	0.57	
613-612	59	18	RCP	887.43	887.22	0.36	7
612-611	157	18	RCP	887.22	886.68	0.34	-2
611-610	76	18	RCP	886.68	884.99	2.22	6
609-608	111	12	RCP	887.39	887.03	0.32	-4
608-607	60	15	RCP	887.03	886.86	0.28	
607-606	81	15	RCP	886.82	884.92	2.4	3
601-600A	184	12	RCP	884.92	883.52	0.76	-10
600A-600	98	12	RCP	883.52	882.66	0.88	7
600B-600A	72	12	RCP	885	883.52	2.06	19
605-604	83	12	RCP	885.41	885	0.49	-4
603-602	41	30	RCP	883.01	882.97	0.09	-2
627-626	30	15	RCP	883.29	883.12	0.57	
626-625	136	18	RCP	883.12	882.56	0.41	
625-624	154	18	RCP	882.56	882.06	0.31	2
628-621	198	12	RCP	878.51	878.03	0.24	-4
631-630	30	12	RCP	882.71	882.42	0.97	
630-629	63	18	RCP	882.42	882.13	0.46	-1
629-624	22	21	RCP	882.13	882.08	0.23	-2
624-623	185	24	RCP	882.08	881.46	0.34	
623-622	30	24	RCP	881.46	881.35	0.37	

622-621	149	24	RCP	881.35	878.03	2.23	-1
621-620	20	27	RCP	878.03	877.97	0.3	-1
620-619	30	27	RCP	877.97	877.81	0.53	
619-618	237	27	RCP	873.79	873.03	0.32	-1
635A-635	123	15	RCP	882.9	882.34	0.46	-2
635-634	193	15	RCP	882.34	881.7	0.33	-4
634-633	103	18	RCP	881.7	881.23	0.45	
633-632	228	18	RCP	875.73	873	1.2	
617-616	80	12	RCP	872.99	872.71	0.35	1

**6" SSD Streets:**

Iron Horse Ln	1464
Roxley Bend	515.5
Noma Ct	483.5
x2	

**Total:** 4926

<b>Other Drain:</b>	
Open	515

**Total:** 515

**RCP Pipe Totals:**

12	1010
15	517
18	976
21	22
24	364
27	287
30	41

**Total:** 3217

The length of the drain due to the changes described above is now **8,658 feet**.

The non-enforcement was approved by the Board at its meeting on November 27, 2006 and recorded under instrument #200600071264.

The following sureties were guaranteed by Irwin Union Bank and released by the Board on its January 8, 2007 meeting.

**Bond-LC No:** 18-06

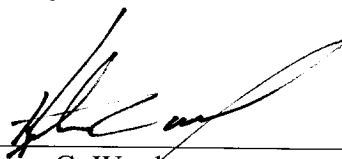
**Insured For:** Storm Sewers, Erosion Control

**Amount:** \$246,360.00

**Issue Date:** March 20, 2006

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

Sincerely,



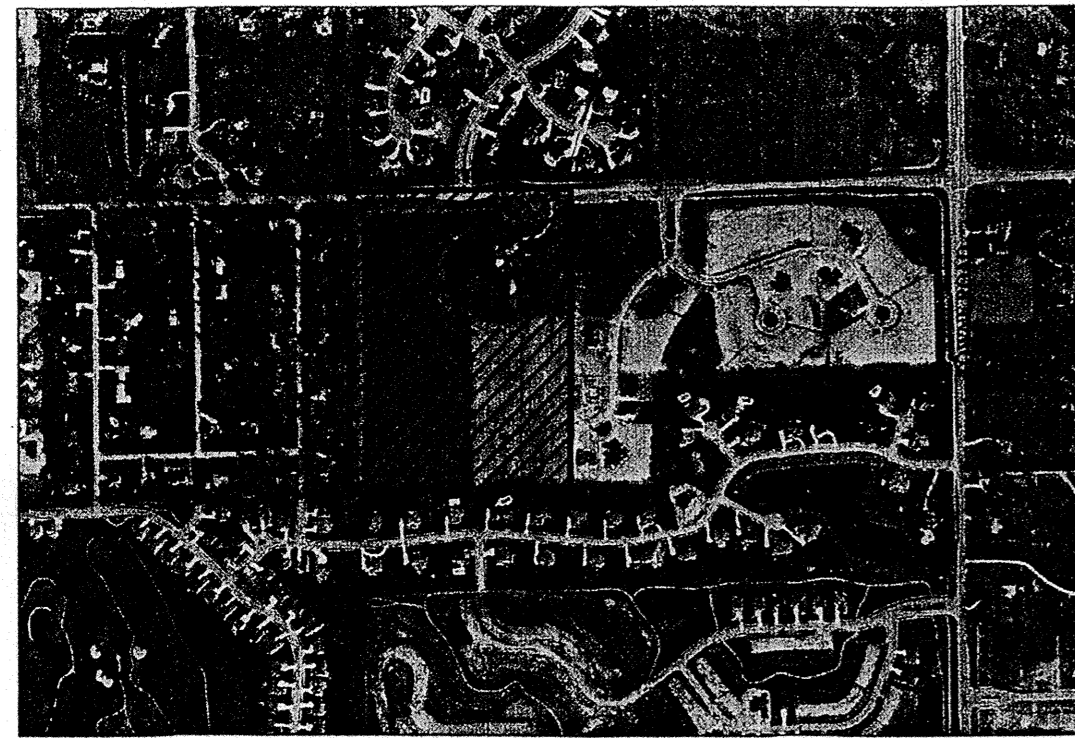
Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm

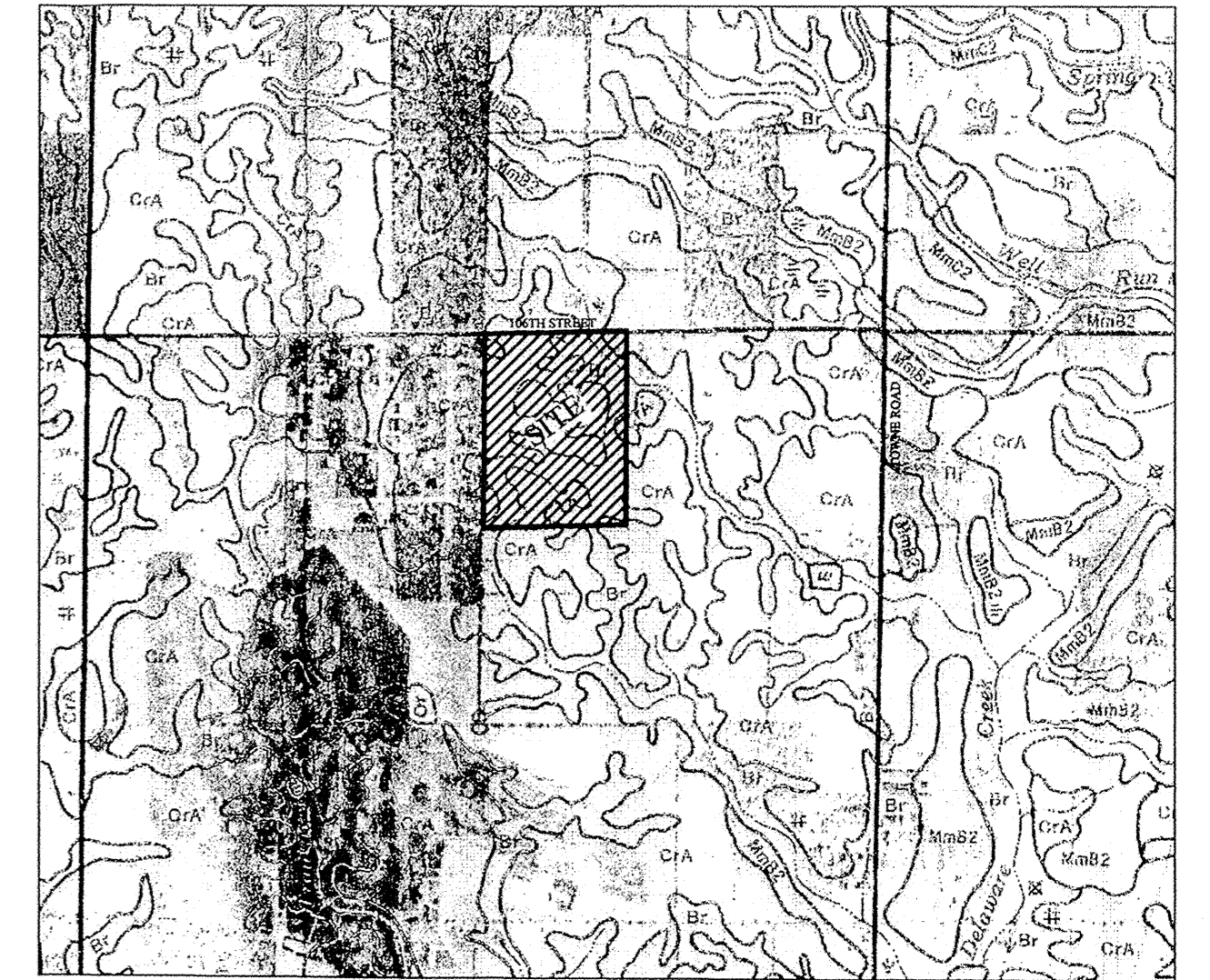


# RECORD DRAWING

# WINDSOR GROVE II



LOCATION MAP



SOILS MAP

Developed by:  
 STEVEN A. WILSON, INC.  
 937 KEYSTONE WAY  
 CARMEL, INDIANA 46082  
 PHONE # (317)-846-2555  
 FAX # (317)-846-9594  
 CONTACT PERSON: STEVE WILSON

## RECORD DRAWING

*Jeffory W. Darling*  
 JEFFORY W. DARLING 9/26/06  
 Registered Land Surveyor DATE  
 No. 900017



INDEX	
SHT.	DESCRIPTION
C001	COVER SHEET
C100	TOPOGRAPHICAL SURVEY
C200-C201	SITE DEVELOPMENT PLAN/PROPOSED GRADING PLAN
C300-C302	EROSION CONTROL PLAN & SPECIFICATIONS
C400-C405	STREET PLAN & PROFILES/ENTRANCE DETAIL/INTERSECTION DETAILS/ TRAFFIC CONTROL PLAN/TRAFFIC MAINTENANCE PLAN/PAVEMENT POLICY
C500-C502	SANITARY SEWER PLAN & PROFILES
C600-C602	STORM SEWER PLAN & PROFILES
C800-C803	CONSTRUCTION DETAILS
	SANITARY
	STORM
	STREET
	HANDICAPPED RAMPS

### DESIGN DATA

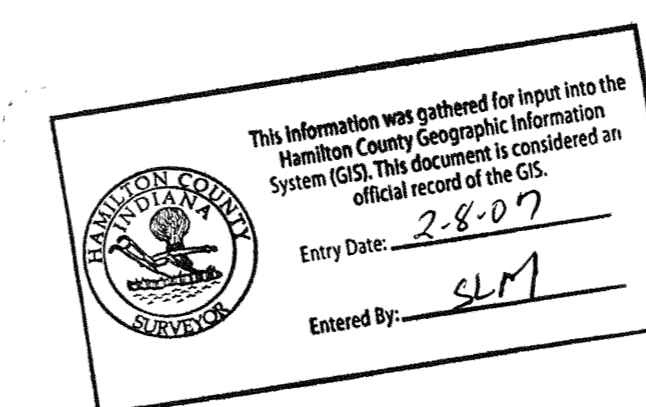
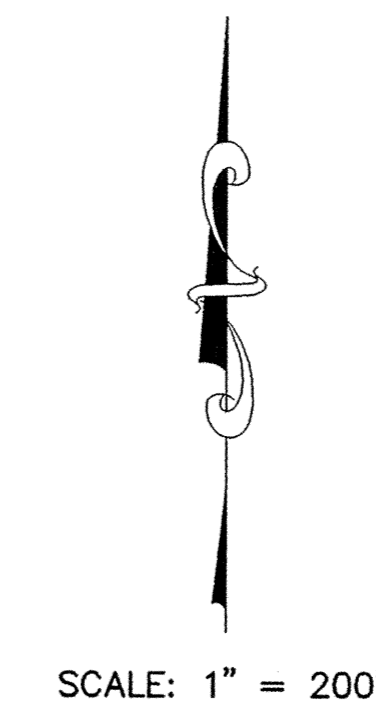
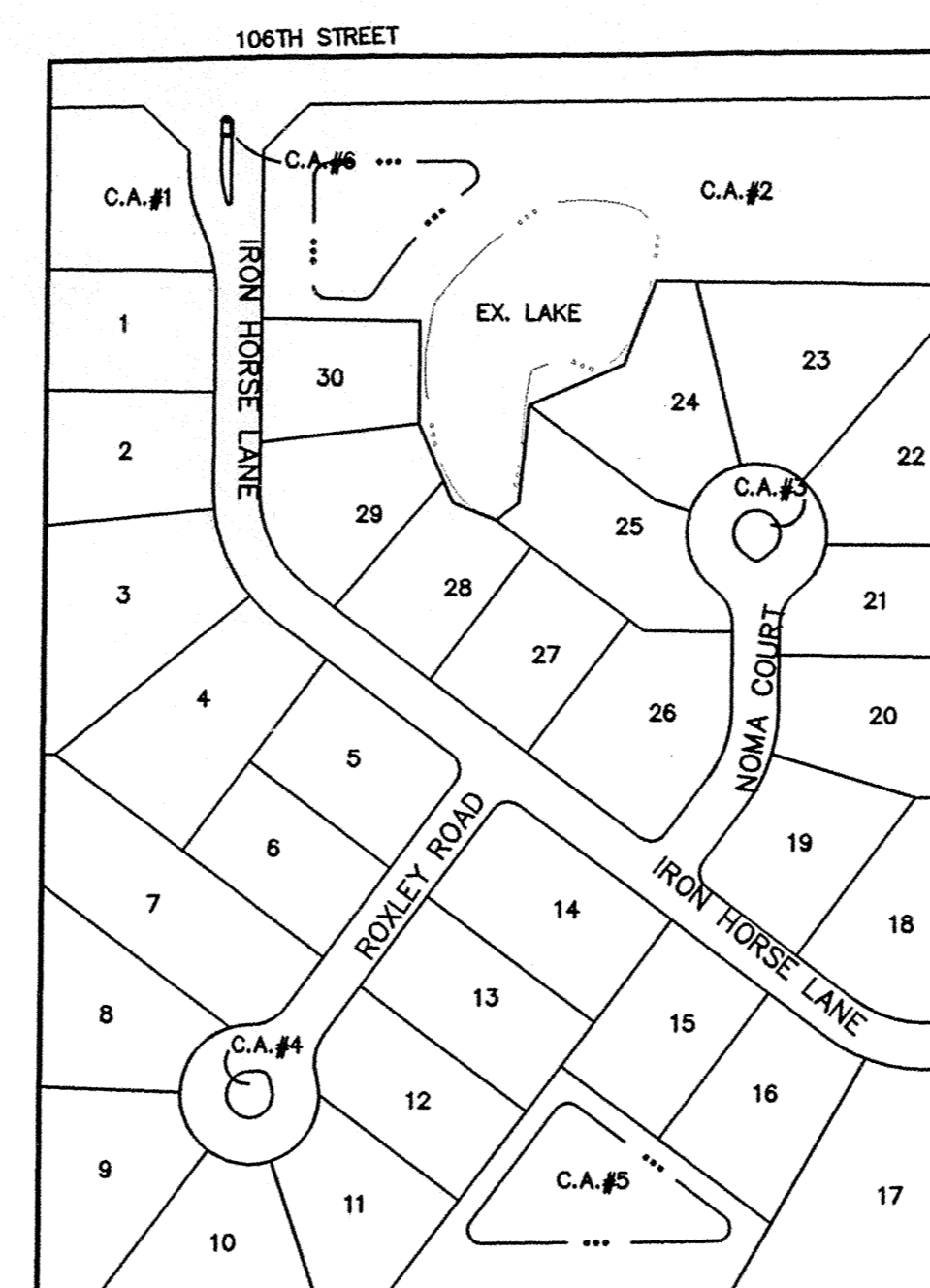
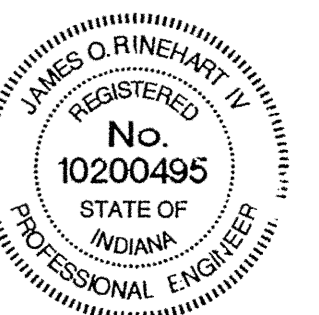
30 LOTS = 0.99 LOTS/ACRE  
 30.006 AC.  
 IRON HORSE LANE 1480.78 L.F.  
 NOMA COURT 469.67 L.F.  
 ROXLEY ROAD 511.96 L.F.

SPEED LIMIT: 25 M.P.H.

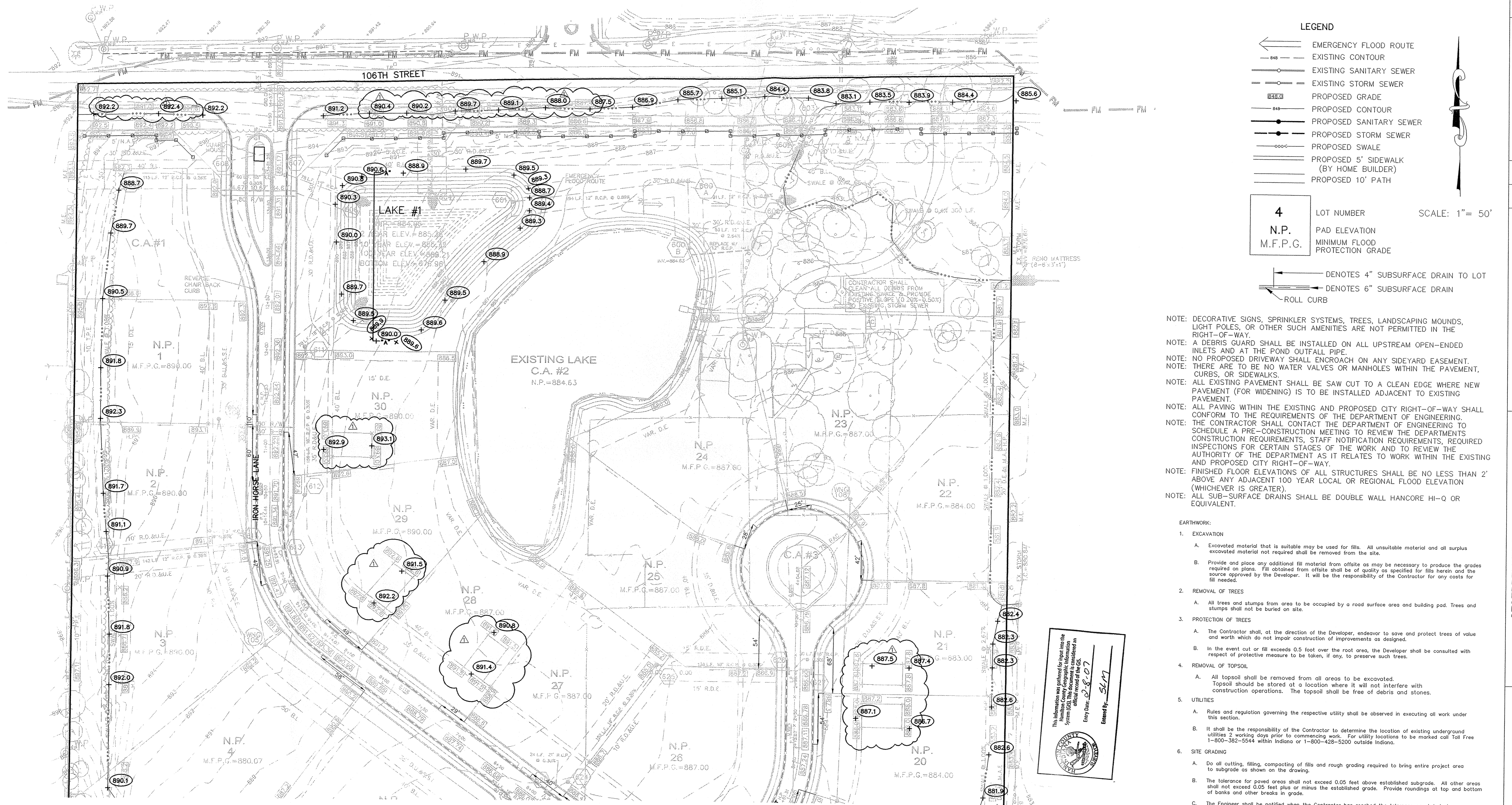
PLANS PREPARED BY:  
 STOEPPELWERTH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 9940 ALLISONVILLE ROAD  
 FISHERS, INDIANA 46038  
 PHONE: (317)-849-5935  
 FAX: (317)-849-5942

### PLANS CERTIFIED BY:

*James O. Rinehart IV* 1/3/06  
 JAMES O. RINEHART IV DATE  
 PROFESSIONAL ENGINEER  
 NO. 10200495



REVISIONS	
SHT.	DESCRIPTION
ALL	REVISED PER TAC COMMENTS 1/31/06
C200 & C300	REVISED PER HAMILTON CO SURVEYORS OFFICE 2/21/06
ALL	REVISED PER AGENCY COMMENTS 2/28/06
ALL	REVISED PER DIRT ANALYSIS 3/1/06
ALL	REVISED PER AGENCY COMMENTS 3/2/06
ALL	REVISED PER DEVELOPER 4/14/06
C406	REVISED PER HAMILTON COUNTY HIGHWAY DEP. 4/21/06



**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

**4** LOT NUMBER  
**N.P.** PAD ELEVATION  
**M.F.P.G.** MINIMUM FLOOD PROTECTION GRADE

SCALE: 1" = 50'

- DENOTES 4" SUBSURFACE DRAIN TO LOT
- DENOTES 6" SUBSURFACE DRAIN
- ROLL CURB

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

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

NOTE: NO PROPOSED DRIVEWAY SHALL ENCRACH ON ANY SIDEWALK EASEMENT. NOTE: THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURBS, OR SIDEWALKS.

NOTE: ALL EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN EDGE WHERE NEW PAVEMENT (FOR WIDENING) IS TO BE INSTALLED ADJACENT TO EXISTING PAVEMENT.

NOTE: ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENTS CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY.

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

NOTE: ALL SUB-SURFACE DRAINS SHALL BE DOUBLE WALL HANCORE HI-Q OR EQUIVALENT.

- EARTHWORK:**
- EXCAVATION
    - A. 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.
    - B. 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
    - A. 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.
    - B. Protection of Trees
      - A. 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.
      - B. In the event cut or fill exceeds 0.5 foot over the road area, the Developer shall be consulted with respect of protective measure to be taken, if any, to preserve such trees.
  - REMOVAL OF TOPSOIL
    - A. 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
    - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
    - B. 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
    - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
    - B. 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.
    - C. The Engineer shall be notified when the Contractor has verified the tolerance as stated above, so that field measurements and spot elevations can be reached 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.

This information was gathered for input into the Hamilton County Geographic Information System (GIS). The data is not to be considered an official record of the GIS.

Entry Date: 8.8.07  
 Entered By: SKM

**BM & TBM HISTORY:**

JRL RAN THE BENCH FROM TBM 1 THROUGH TBM 2 TO TBM 3.  
 FIELD BOOK 416, PAGE 76-79

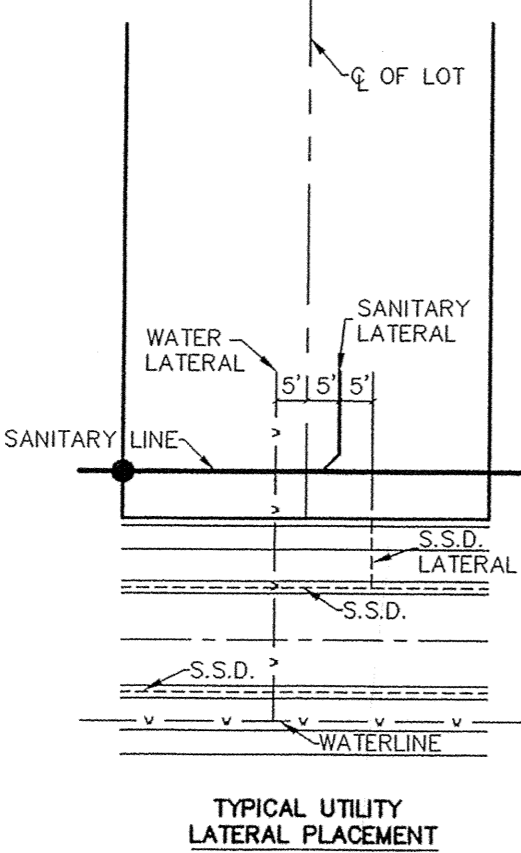
**REFERENCE BENCHMARK:**

TBM 1 - A RAILROAD SPIKE IN THE WEST SIDE OF A POWER POLE. SAID POLE IS LOCATED ON THE SOUTH LINE OF CAMDEN WALK SUBDIVISION AND ON THE EAST SIDE OF TOWNE ROAD. (TBM FROM S & A JOB NUMBER 33697)  
 ELEVATION: 870.46' (NGVD 29)

TBM 2 - A RAILROAD SPIKE, ONE FOOT ABOVE THE GROUND, IN THE SOUTH SIDE OF POWER POLE NUMBER 39130A. SAID POLE IS LOCATED ON THE NORTH SIDE OF 106TH STREET AND 70 FEET WEST OF THE CENTER ISLAND AT THE ENTRANCE TO KINGSMILL SUBDIVISION.  
 ELEVATION: 891.02' (NGVD 29)

TBM 3 - WINDSOR GROVE (S & A JOB NUMBER 33697) ASBUILT SANITARY MANHOLE NUMBER 712.  
 ELEVATION: 880.90' (NGVD 29)

BENCH NOTES TYPED BY: RJC 9/19/2005  
 CHECKED BY:



# RECORD DRAWING

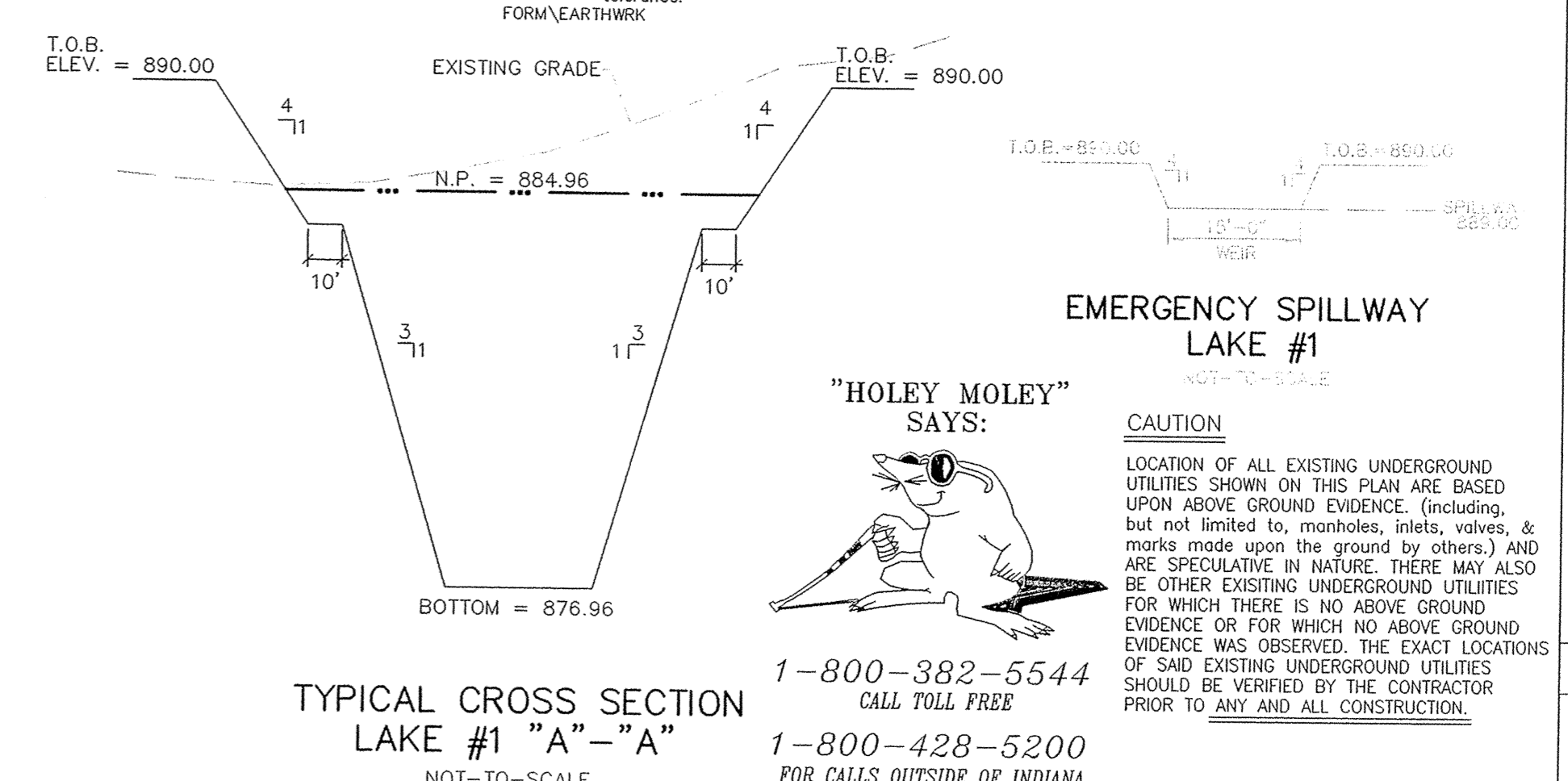
*Jeffrey W. Darling*  
 JEFFREY W. DARLING  
 Registered Land Surveyor  
 No. 900017

9/27/06 DATE

JEFFREY W. DARLING  
 REGISTERED  
 NO. 900017  
 STATE OF INDIANA  
 LAND SURVEYOR

ASBUILT GRADE ELEV.

STR#	STRUCTURE TYPE	T.C./RIM	Invert In	Invert Out	Depth	Str. Size	Casting	Type	Pipe Size	Dir. of Pipe	Thickness	
590	CONCRETE END SECTION	885.60	882.42	882.42								
591	STORM MANHOLE	885.60	882.24	882.24	1.23	12"	R-1706-1	12	W	SW	4"	
592	CONCRETE END SECTION	884.63	884.63									
593	CONCRETE END SECTION	882.96	884.96									
600	CONCRETE END SECTION	883.06	883.06									
601	CONCRETE END SECTION	883.06	883.06									
608	YARD INLET	889.00	889.00									
609	CONCRETE END SECTION	889.00	889.00									
610	CONCRETE END SECTION	889.00	889.00									
611	STORM MANHOLE	893.00	886.69	886.69	4.48	18"	R-1706-1	18	SW	SW	4"	
612	CURB INLET	882.70	887.16	887.16	3.71	16"	R-1706-1	18	N	SW	4"	
613	CURB INLET	891.15	887.32	887.32	2.80	30"x30"	R-3501-L2	18	15	NE	SW	4"
614	CURB INLET	891.15	887.41	887.41	2.96	30"x24"	R-3501-L2	15	12	NE	SW	4"
615	CONCRETE END SECTION	887.50	887.50									
616	CONCRETE END SECTION	892.83	892.83									
617	CONCRETE END SECTION	893.04	893.04									
618	CONCRETE END SECTION	884.96	884.96									
619	DOUBLE CURB INLET	892.70	893.75	893.75	1.08	42"x42"	R-3501-TL/TR	27	SW	NE	4"	
620	DOUBLE CURB INLET	882.12	887.41	887.41	1.59	42"x42"	R-3501-TL/TR	27	SW	NE	4"	
621	STORM MANHOLE	882.70	878.01	878.01	2.11	27"	R-1706-1	27	SW	SW	4"	
622	CURB INLET	886.53	881.51	881.51	2.44	42"x42"	R-3501-L2	27	SE	SW	4"	
623	CURB INLET	886.53	881.60	881.60	2.35	42"x36"	R-3501-L2	27	SE	SW	4"	
624	STORM MANHOLE	886.60	882.15	882.15	2.12	24"	R-1706-1	24	18	SE	NW	4"
625	YARD INLET	885.00	882.61	882.61	0.96	18"	R-4342	18	SW	SW	4"	
626	DOUBLE CURB INLET	886.50	883.02	883.02	1.65	30"x30"	R-3501-TL/TR	15	W	E	4"	
627	DOUBLE CURB INLET	886.50	883.11	883.11	1.81	30"x30"	R-3501-TL/TR	15	W	E	4"	
628	YARD INLET	880.70	878.61	878.61	0.76	12"	R-4342	12	SW	SW	4"	
629	YARD INLET	880.70	878.61	878.61	0.76	12"	R-4342	12	SW	SW	4"	
630	DOUBLE CURB INLET	886.50	882.22	882.22	1.41	30"x30"	R-3501-TL/TR	24	18	SW	NE	4"
631	DOUBLE CURB INLET	886.50	882.41	882.41	1.29	30"x24"	R-3501-TL/TR	18	12	NE	SE	4"
632	CONCRETE END SECTION	882.50	882.50									
633	DOUBLE CURB INLET	887.30	873.04	873.04	3.84	30"x30"	R-3501-TL/TR	18	NW	SW	4"	
634	DOUBLE CURB INLET	887.30	882.12	882.12	3.33	30"x30"	R-3501-TL/TR	18	12	SE	NW	4"
635	YARD INLET	888.01	882.13	882.13	2.94	12"	R-4342	12	SE	NE	4"	
635A	YARD INLET	885.60	883.10	883.10	1.07	12"	R-4342	12	SW	SW	4"	



ASBUILT: 9/27/06  
 REVISED P/W GRADES: 9/27/06  
 ADDED GARAGE PADS & REV. ENT. SWS.: 8/16/06  
 REVISED PER DEVELOPER: 7/14/06  
 REVISED PER DIRT ANALYSIS: 5/17/06  
 REVISED PER HAMILTON CO. SURVEYORS OFFICE: 7/21/06  
 AAA  
 DATE: 7/21/06  
 REVISIONS: AAA

CERTIFIED: 1/3/06

JAMES G. RINEHART  
 REGISTERED  
 No. 10200495  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

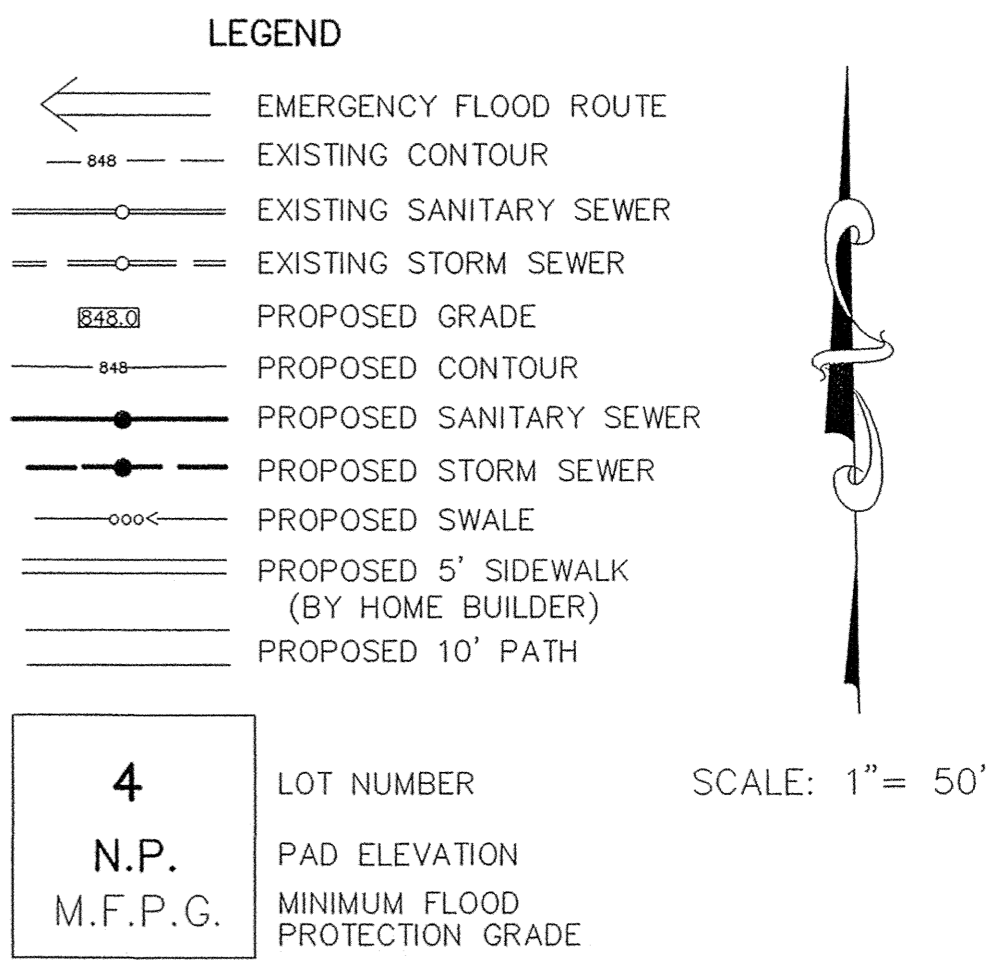
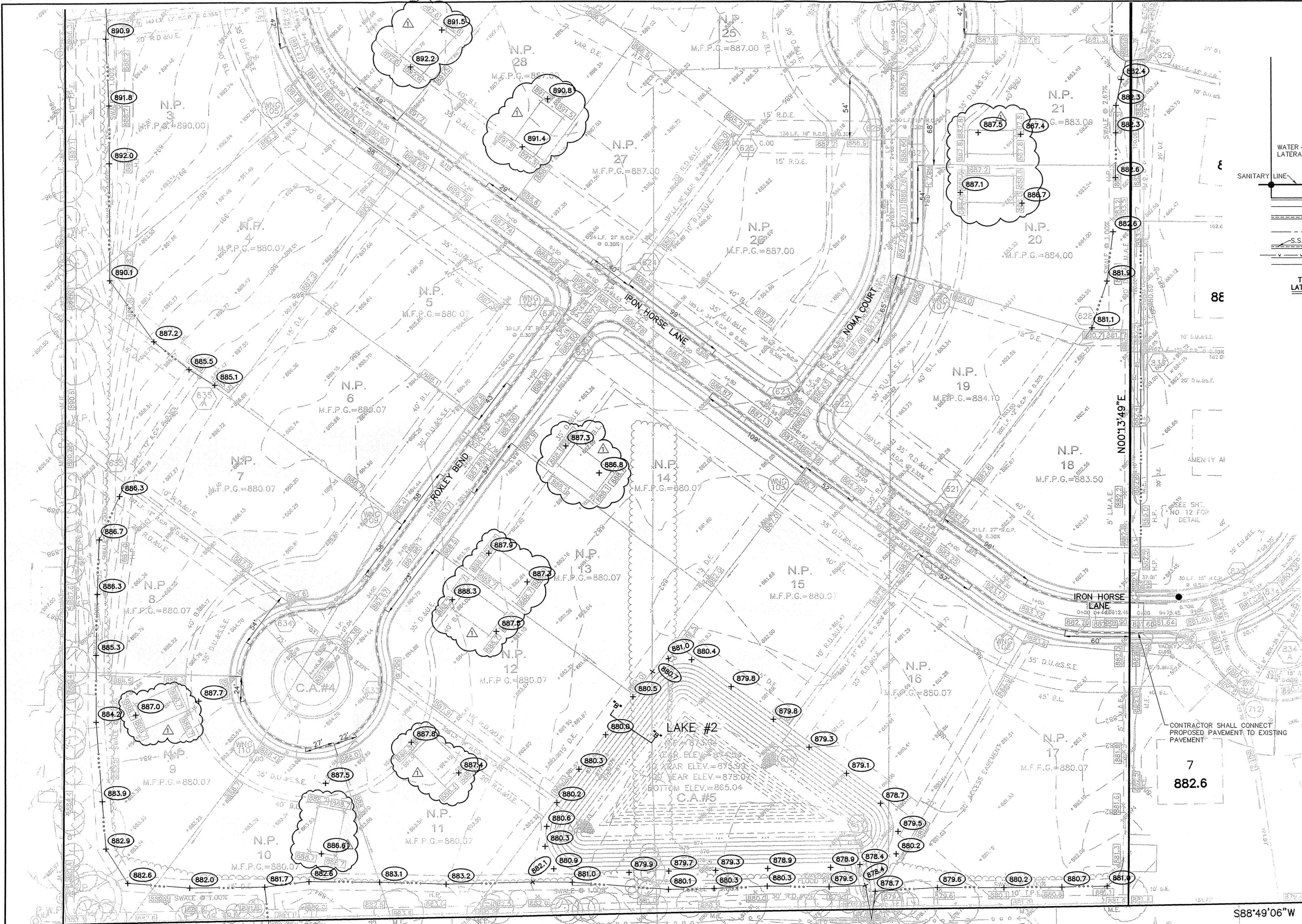
STOEPPELWERTH & ASSOCIATES, INC.  
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 9940 Allisonville Rd., Fishers, IN 46038-2005  
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 Toll Free: (800) 726-6917

HAMILTON COUNTY, INDIANA

CARMEL

SITE DEVELOPMENT PLAN  
 WINDSOR GROVE II  
 SHEET NO. C200  
 S & A JOB NO. 52645

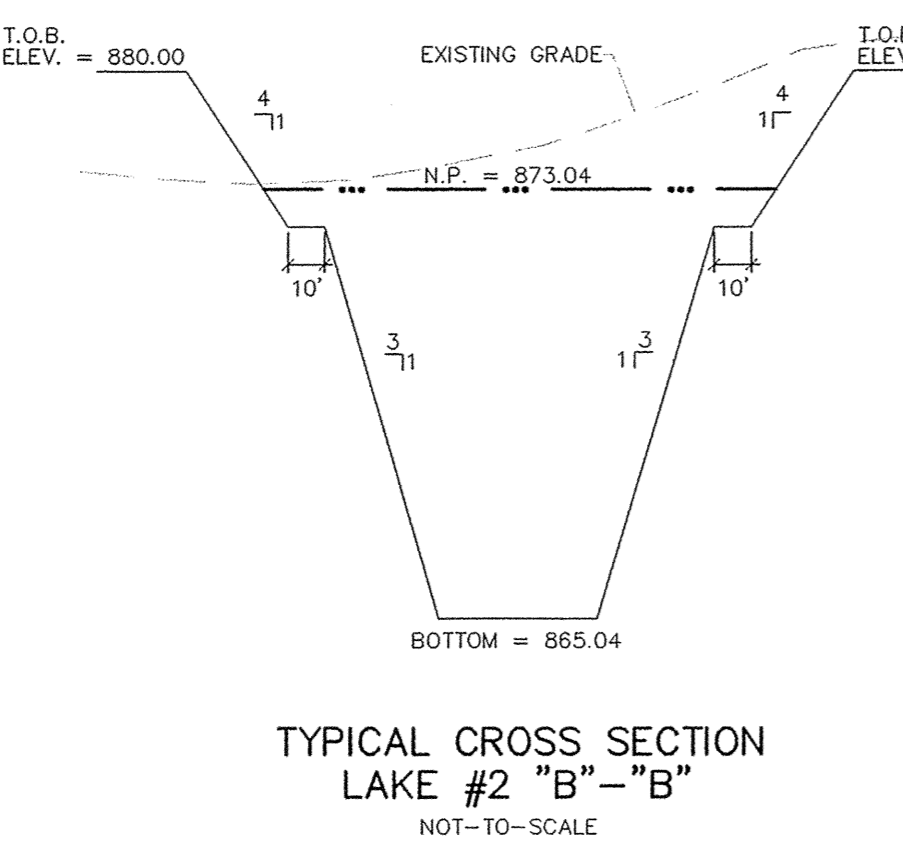
DRAWN BY: TWF  
 CHECKED BY: BKR



NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.
NOTE: A DEBRIS GUARD SHALL BE INSTALLED ON ALL UPSTREAM OPEN-ENDED INLETS AND AT THE POND OUTFALL PIPE.
NOTE: NO PROPOSED DRIVEWAY SHALL ENCRoACH ON ANY SIDEYARD EASEMENT.
NOTE: THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURBS, OR SIDEWALKS.
NOTE: ALL EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN EDGE WHERE NEW PAVEMENT (FOR WIDENING) IS TO BE INSTALLED ADJACENT TO EXISTING PAVEMENT.
NOTE: ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING.
NOTE: THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENTS CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY.
NOTE: FINISHED FLOOR ELEVATIONS OF ALL STRUCTURES SHALL BE NO LESS THAN 2' ABOVE ANY ADJACENT 100 YEAR LOCAL OR REGIONAL FLOOD ELEVATION (WHICHEVER IS GREATER).
NOTE: ALL SUB-SURFACE DRAINS SHALL BE DOUBLE WALL HANCORE HI-Q OR EQUIVALENT.

- EARTHWORK:
1. EXCAVATION
A. 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.
B. 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.
2. REMOVAL OF TREES
A. 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.
3. PROTECTION OF TREES
A. 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.
B. In the event cut or fill exceeds 0.5 feet over the root area, the Developer shall be consulted with respect of protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
A. 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.
5. UTILITIES
A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
B. 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.
6. SITE GRADING
A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
B. 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.
C. 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.

BM & TBM HISTORY:
JRL RAN THE BENCH FROM TBM 1 THROUGH TBM 2 TO TBM 3.
FIELD BOOK 416, PAGE 76-79
REFERENCE BENCHMARK:
TBM 1 - A RAILROAD SPIKE IN THE WEST SIDE OF A POWER POLE. SAID POLE IS LOCATED ON THE SOUTH LINE OF CAMDEN WALK SUBDIVISION AND ON THE EAST SIDE OF TOWNE ROAD. (TBM FROM S & A JOB NUMBER 33697)
ELEVATION: 870.46' (NGVD 29)
TBM 2 - A RAILROAD SPIKE, ONE FOOT ABOVE THE GROUND, IN THE SOUTH SIDE OF POWER POLE NUMBER 39130A. SAID POLE IS LOCATED ON THE NORTH SIDE OF 10TH STREET AND 70 FEET WEST OF THE CENTER ISLAND AT THE ENTRANCE TO KINGSMILL SUBDIVISION.
ELEVATION: 891.02' (NGVD 29)
TBM 3 - WINDSOR GROVE (S & A JOB NUMBER 33697) ASBUILT SANITARY MANHOLE NUMBER 712.
ELEVATION: 880.90' (NGVD 29)
BENCH NOTES TYPED BY: RJC 9/19/2005
CHECKED BY:



RECORD DRAWING

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

9/27/06 DATE



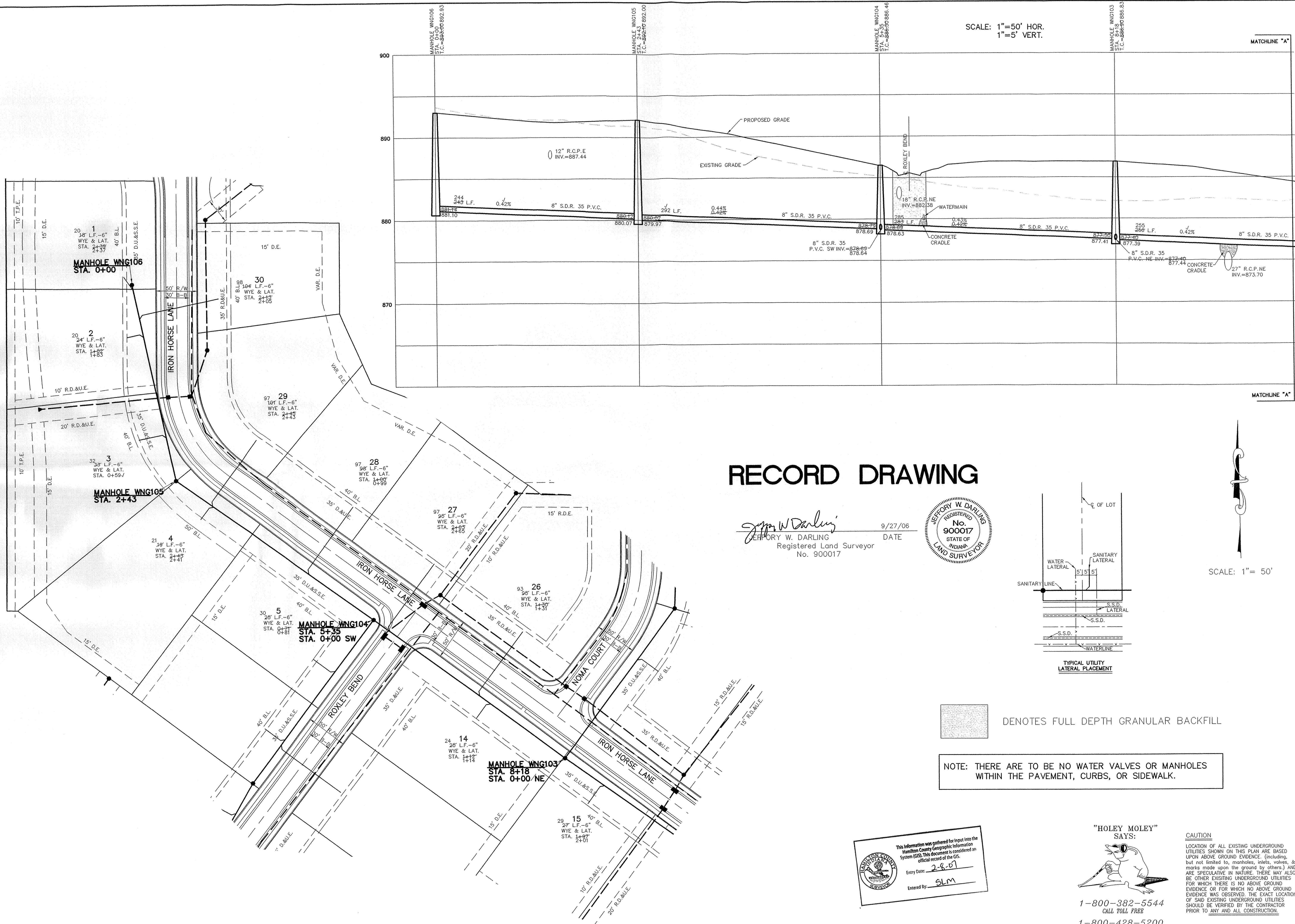
EMERGENCY SPILLWAY LAKE #2
401-T0-SCALE

'HOLEY MOLEY' SAYS:
LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, (including, but not limited to, manholes, inlets, valves, & 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 SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544 CALL TOLL FREE
1-800-428-5200 FOR CALLS OUTSIDE OF INDIANA

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Entry Date: 2-6-07
Entered by: SLM

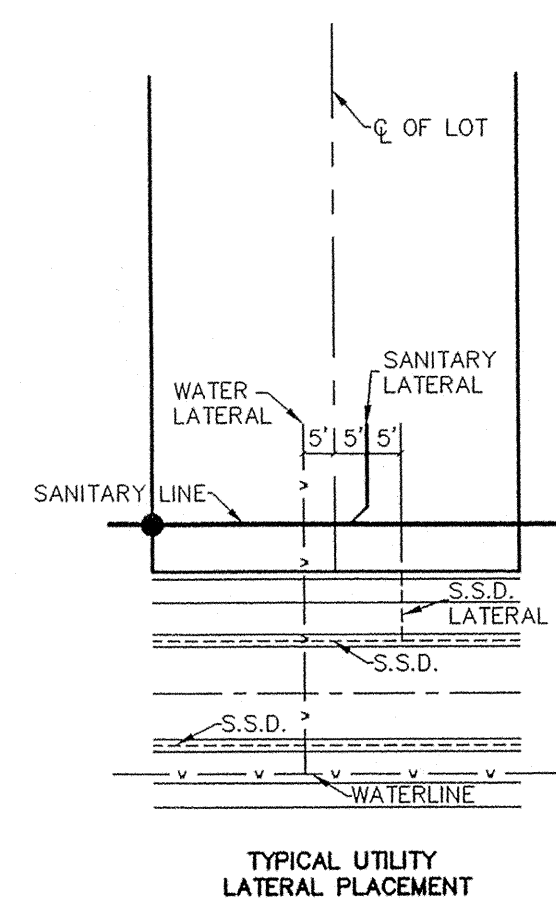
Professional seal for James O. Rinehart, Registered Professional Engineer No. 10200495, State of Indiana. Includes contact information for Stoepelwerth & Associates, Inc. and a table with project details.



SCALE: 1"=50' HOR.  
1"=5' VERT.

# RECORD DRAWING

*Jeffery W. Darling*  
 JEFFERY W. DARLING  
 Registered Land Surveyor  
 No. 900017  
 DATE: 9/27/06



SCALE: 1" = 50'

■ DENOTES FULL DEPTH GRANULAR BACKFILL

NOTE: THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURBS, OR SIDEWALK.

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"HOLEY MOLEY" SAYS:  
  
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 LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, & 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 SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CRM	9/27/06	ASBULTS	
RMC	4/14/06	REVISED PER DEVELOPER	
AAA	3/2/06	REVISED PER AGENCY COMMENTS	
AAA	3/7/06	REVISED PER DIRT ANALYSIS	
AAA	1/31/06	REVISED PER TAC COMMENTS	
AAA	12/13/05	REVISED PER AGENCY COMMENTS	
BY		REVISIONS	

CERTIFIED: 1/3/06

STOEPPELWERTH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 9940 Allisonville Rd., Fishers, IN 46038-2005  
 Phone: (317) 849-5935 Fax: (317) 849-5942  
 Toll Free: (800) 728-8917

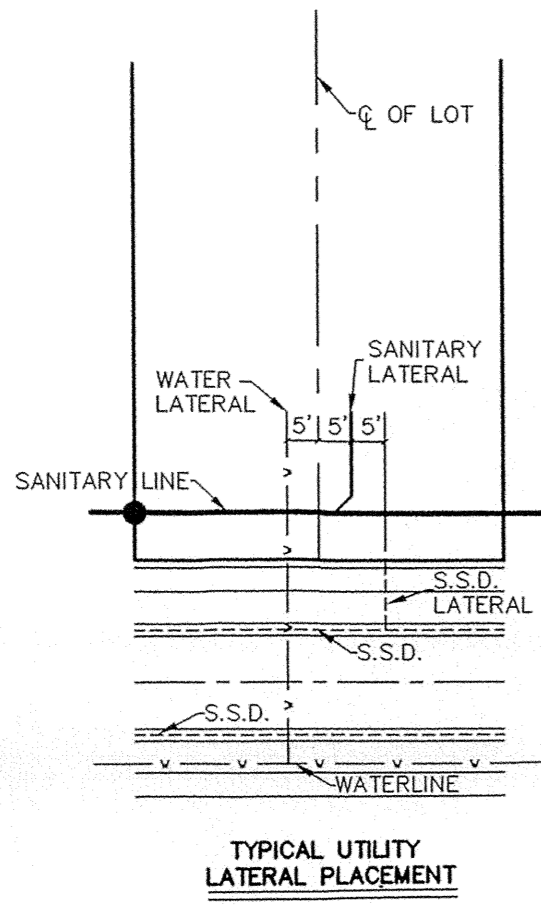
REGISTERED No. 10200495 STATE OF INDIANA PROFESSIONAL ENGINEER

SANITARY PLAN & PROFILES  
 WINDSOR GROVE II

HAMILTON COUNTY, INDIANA

CARMEL

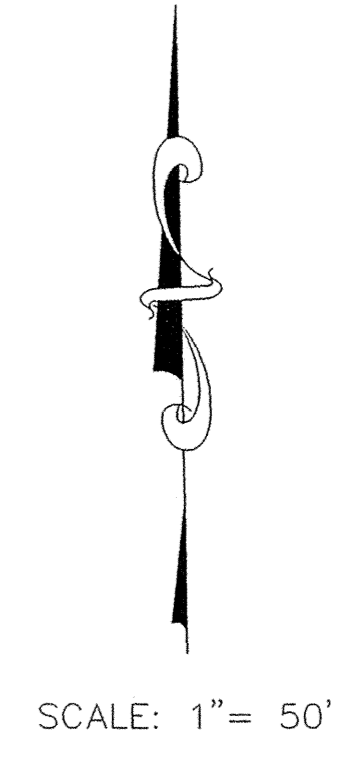
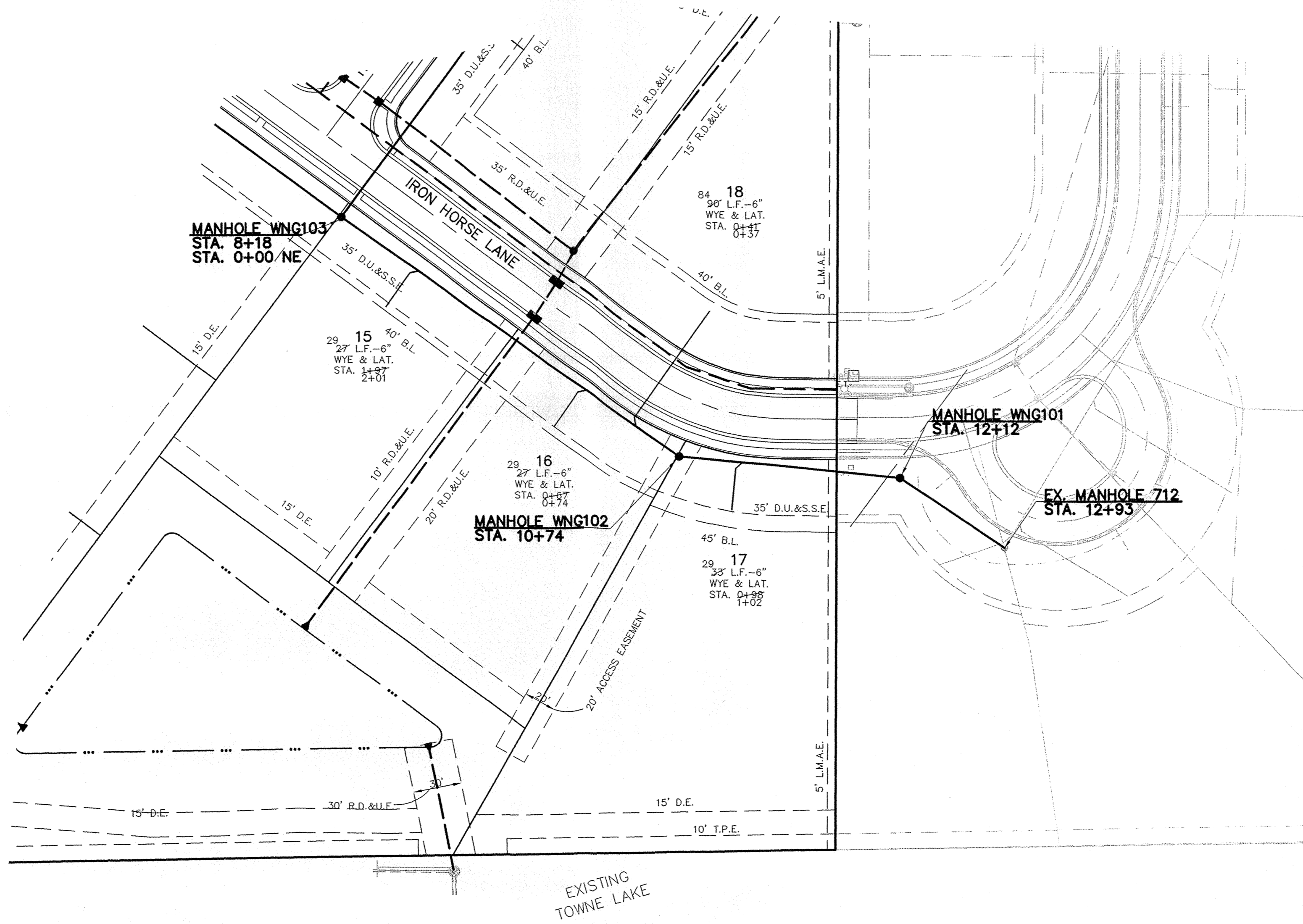
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 S & A JOB NO. 52645



NOTE: THERE ARE TO BE NO WATER VALVES OR MANHOLES WITHIN THE PAVEMENT, CURBS, OR SIDEWALK.

DENOTES FULL DEPTH GRANULAR BACKFILL

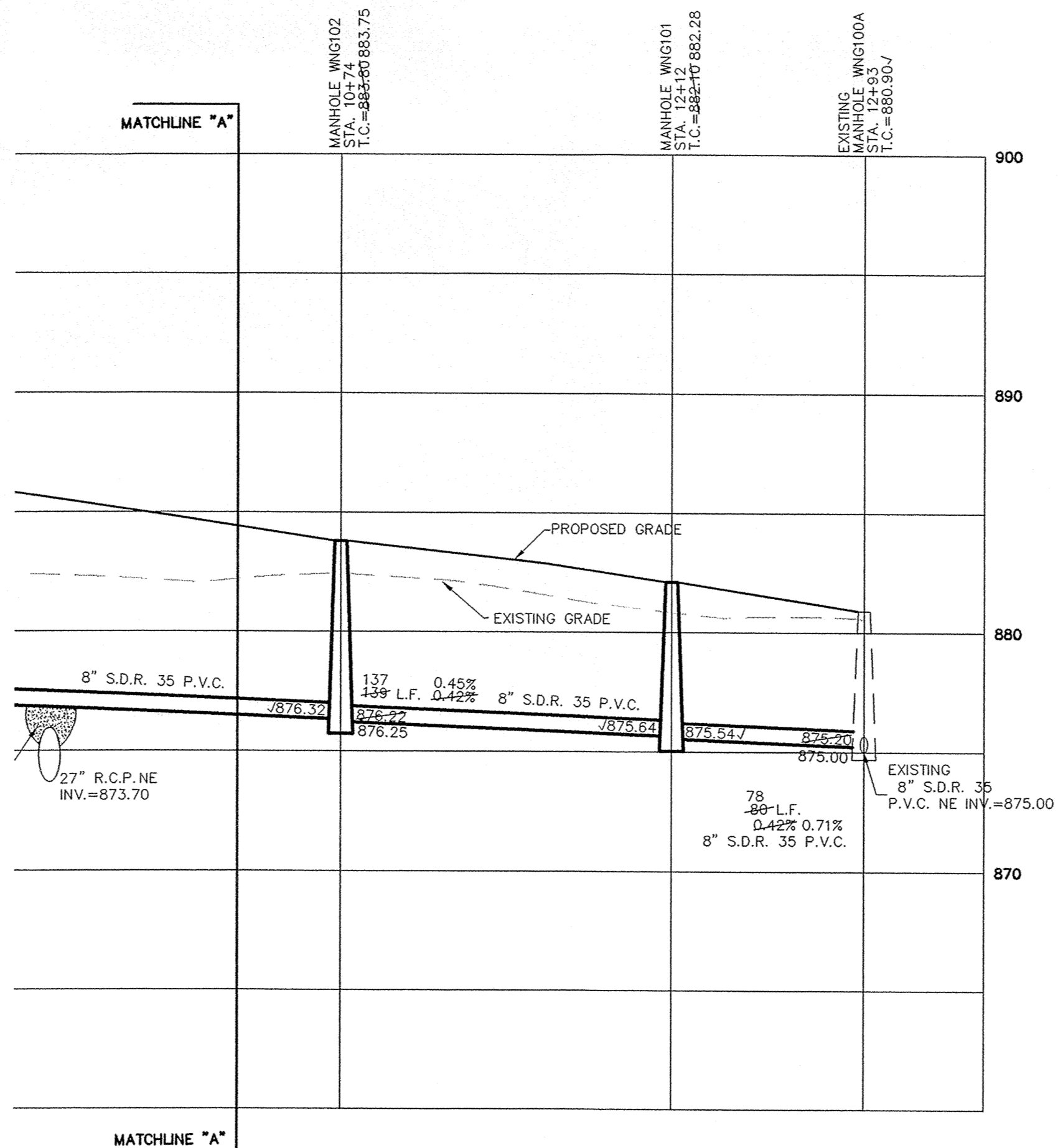
NOTE: CONTRACTOR TO VERIFY ALL EXISTING UTILITIES UPON CONSTRUCTION



# RECORD DRAWING

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

9/27/06  
 DATE



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: 2-8-07  
 Entered By: S.J.M.

NOTE: AFTER CONNECTING TO EXISTING SEWER, THE CONDITION OF EXISTING YARD MUST BE LEFT AS IT WAS PRIOR TO CONSTRUCTION OR BETTER.

"HOLEY MOLEY" SAYS:  
  
 1-800-382-5544  
 CALL TOLL FREE  
 1-800-428-5200  
 FOR CALLS OUTSIDE OF INDIANA

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ASBUILTS	9/27/06	DATE	MARK
REVISED PER DEVELOPER	7/15/06	DATE	MARK
REVISED PER AGENCY COMMENTS	5/2/06	DATE	MARK
REVISED PER DIRT ANALYSIS	3/7/06	DATE	MARK
REVISED PER TAC COMMENTS	1/31/06	DATE	MARK
REVISED PER AGENCY COMMENTS	12/13/05	DATE	MARK
BY			

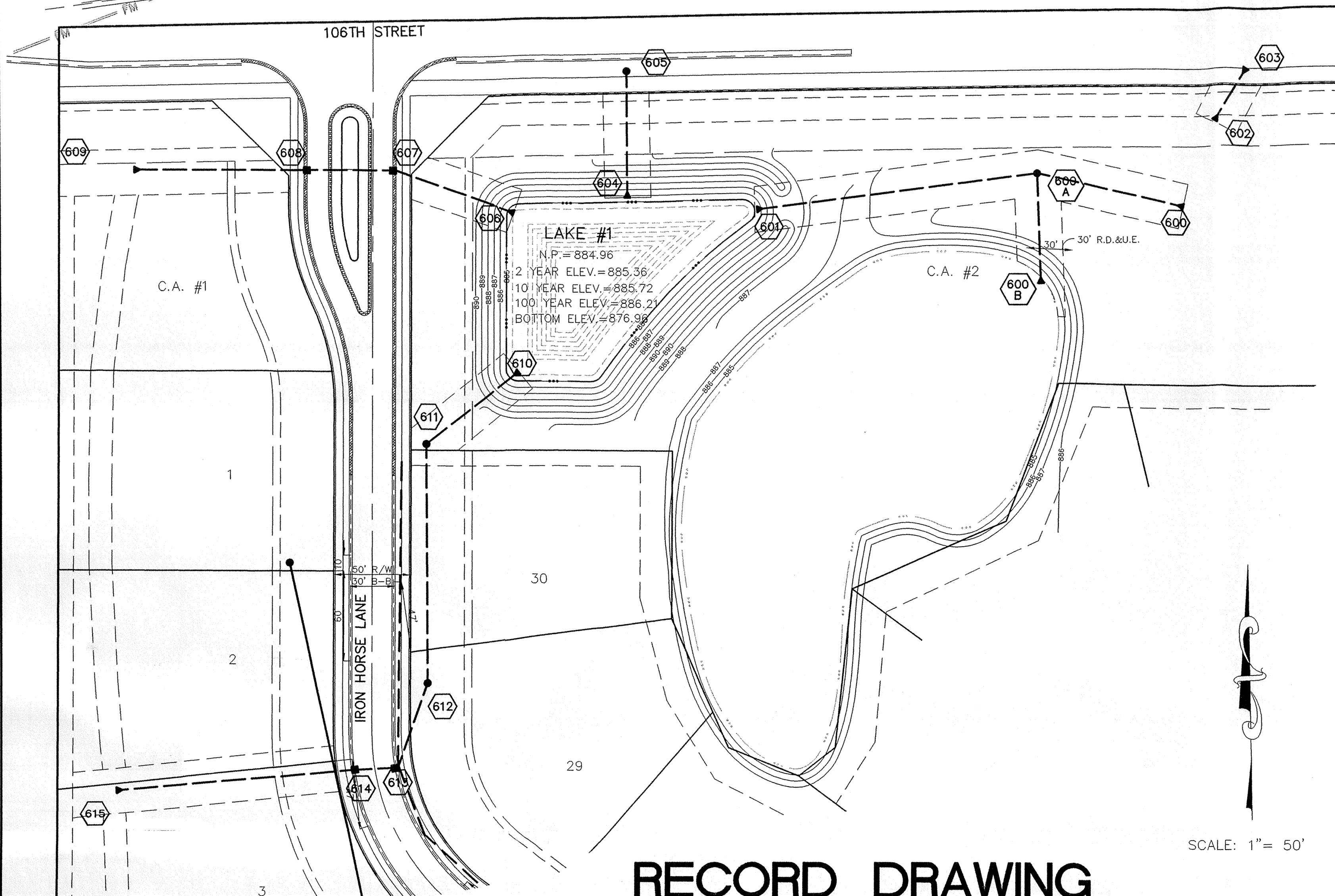
CERTIFIED: 1/3/06

**STOPELWERTH & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 9940 Millersville Rd., Fishers, IN 46038-2005  
 Phone: (317) 849-5935 Fax: (317) 849-5942  
 Toll Free: (800) 728-6917

**JAMES C. RINEHART**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 10200495  
 STATE OF INDIANA

**SANITARY PLAN & PROFILES**  
**WINDSOR GROVE II**  
 HAMILTON COUNTY, INDIANA  
 CARMEL

DRAWN BY: TWF CHECKED BY: BKR  
 SHEET NO. **C501**  
 S & A JOB NO. 52645



# RECORD DRAWING

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

9/27/06  
 DATE

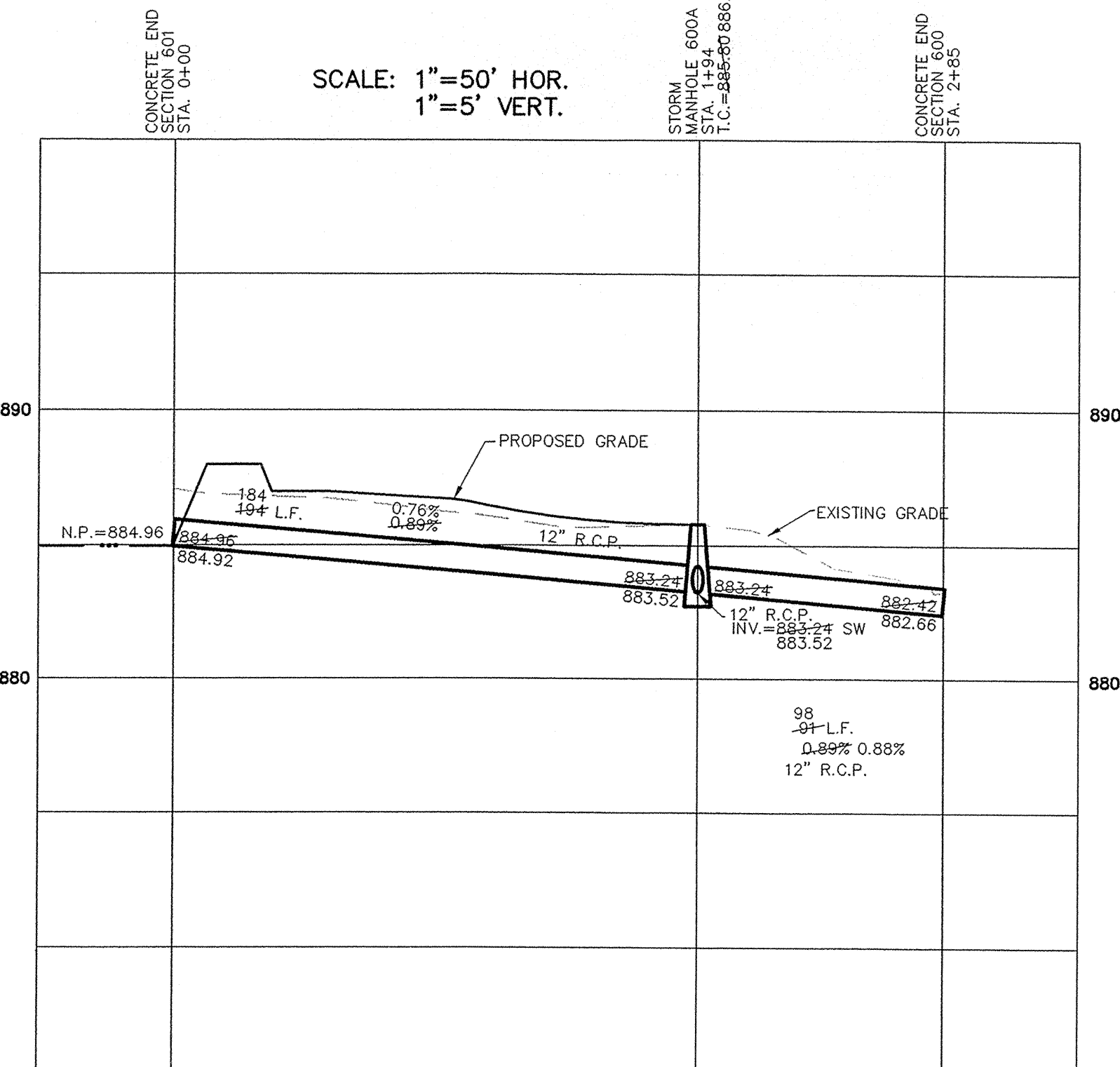
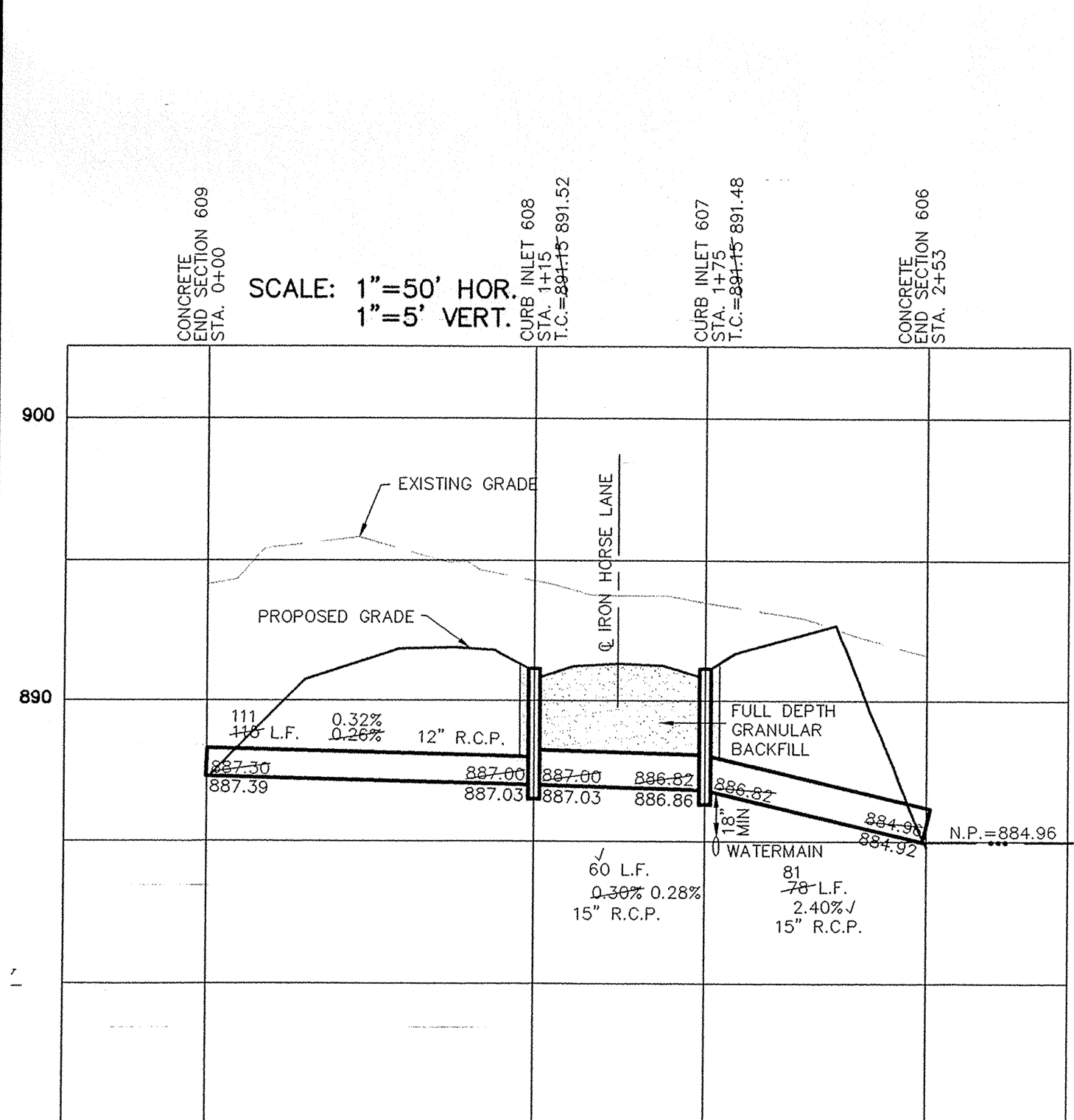
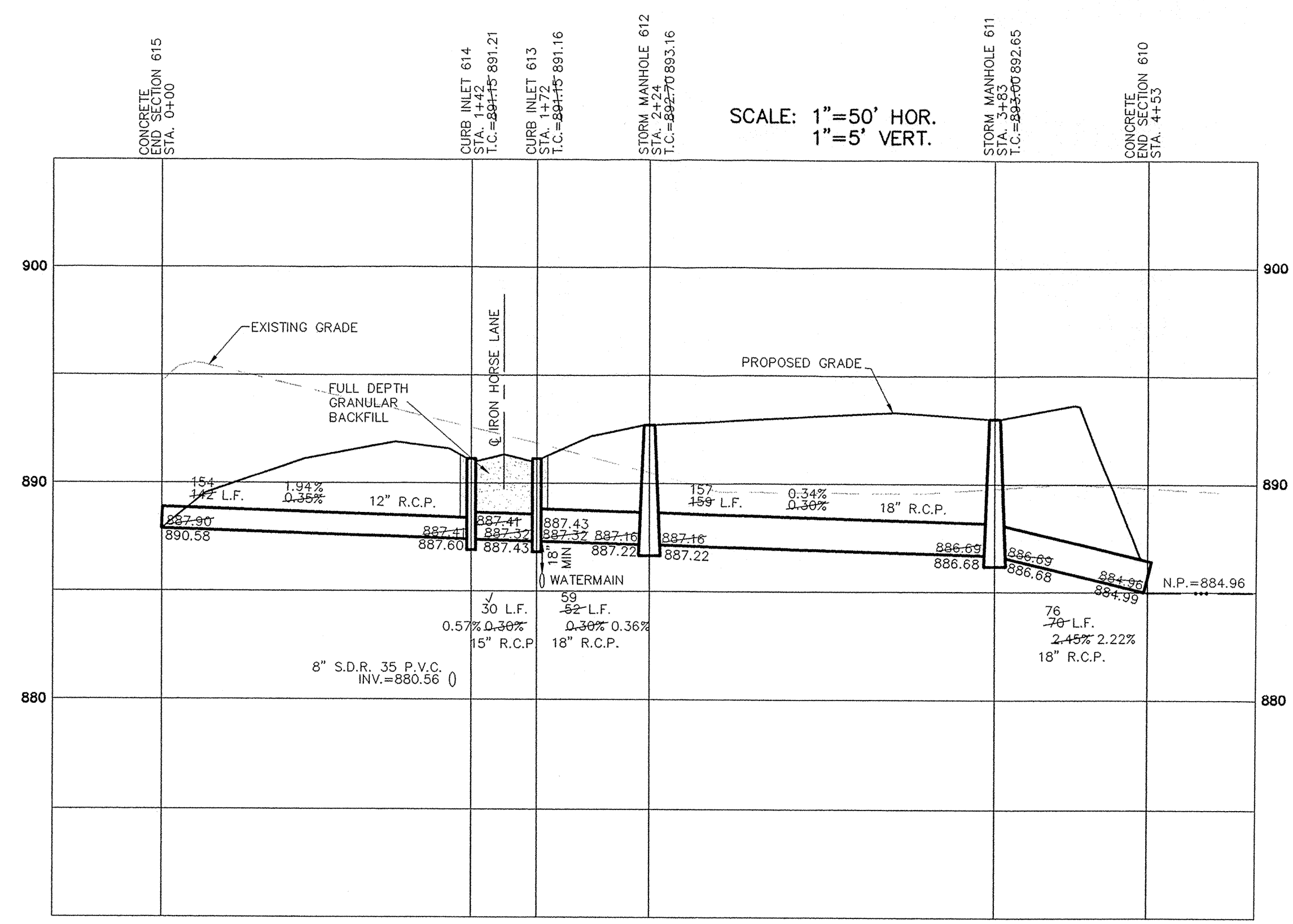
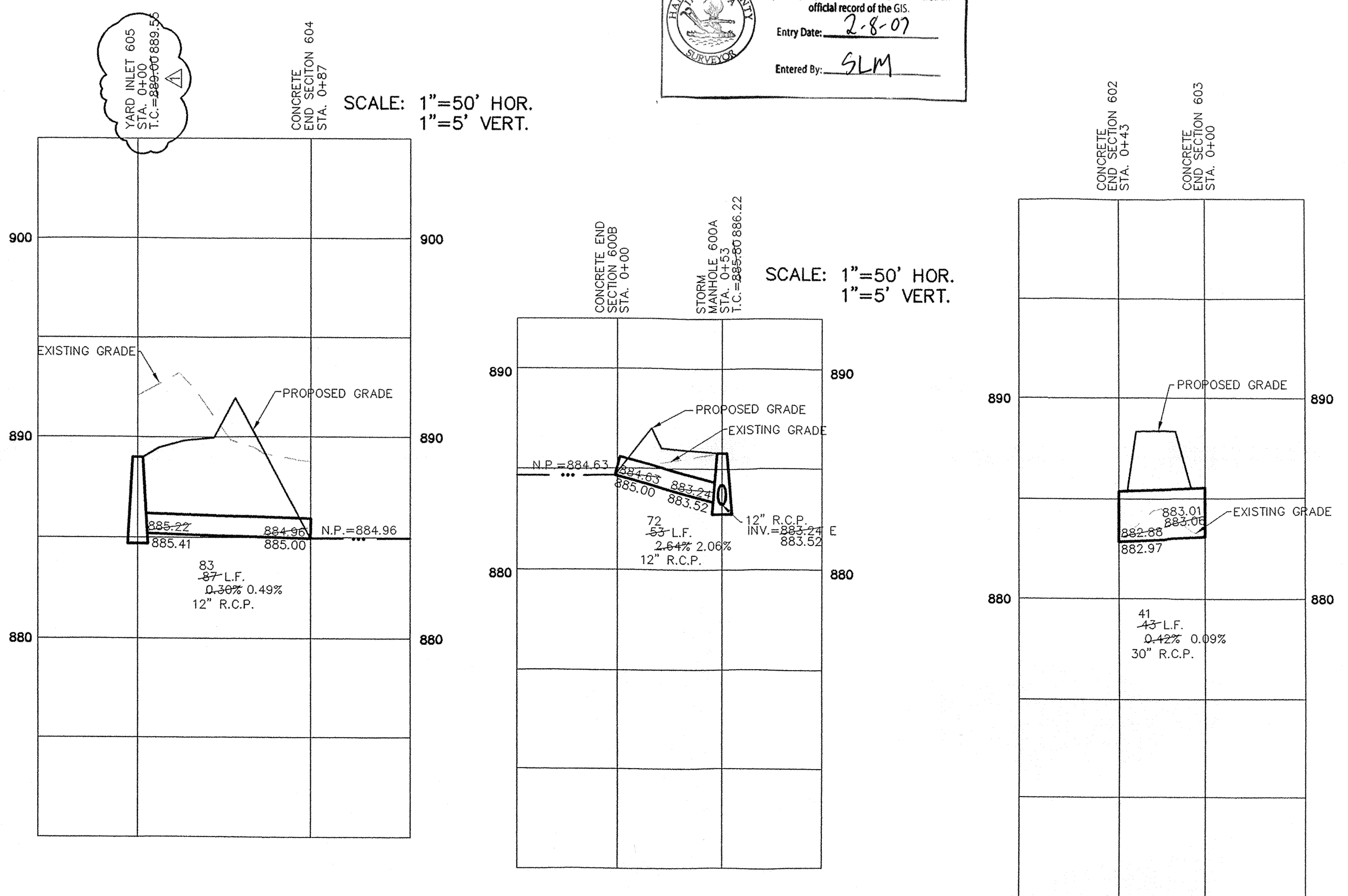


SCALE: 1" = 50'

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Entry Date: 2-8-07

Entered By: SLM



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

■ DENOTES FULL DEPTH GRANULAR BACKFILL

"HOLEY MOLEY" SAYS:  
  
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1-800-382-5544  
 CALL TOLL FREE  
 1-800-428-5200  
 FOR CALLS OUTSIDE OF INDIANA  
 1-317-571-2648  
 CALL CARMEL UTILITIES  
 (FOR WATER MAIN LOCATIONS)

CRN	ASBUILTS	2/27/06	DATE	MARK
KWC	REVISED TC FOR INLET 605	8/26/06		
KWC	REVISED PER DEVELOPER	4/14/06		
AAA	REVISED PER DIRT ANALYSIS	3/7/06		
AAA	REVISED PER TAC COMMENTS	1/31/06		
AAA	REVISIONS			
BY				

CERTIFIED: 1/3/06

JAMES O RINEHART  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 10200495  
 STATE OF INDIANA

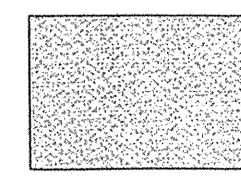
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HAMILTON COUNTY, INDIANA

CARMEL

STORM PLAN & PROFILES  
 WINDSOR GROVE II

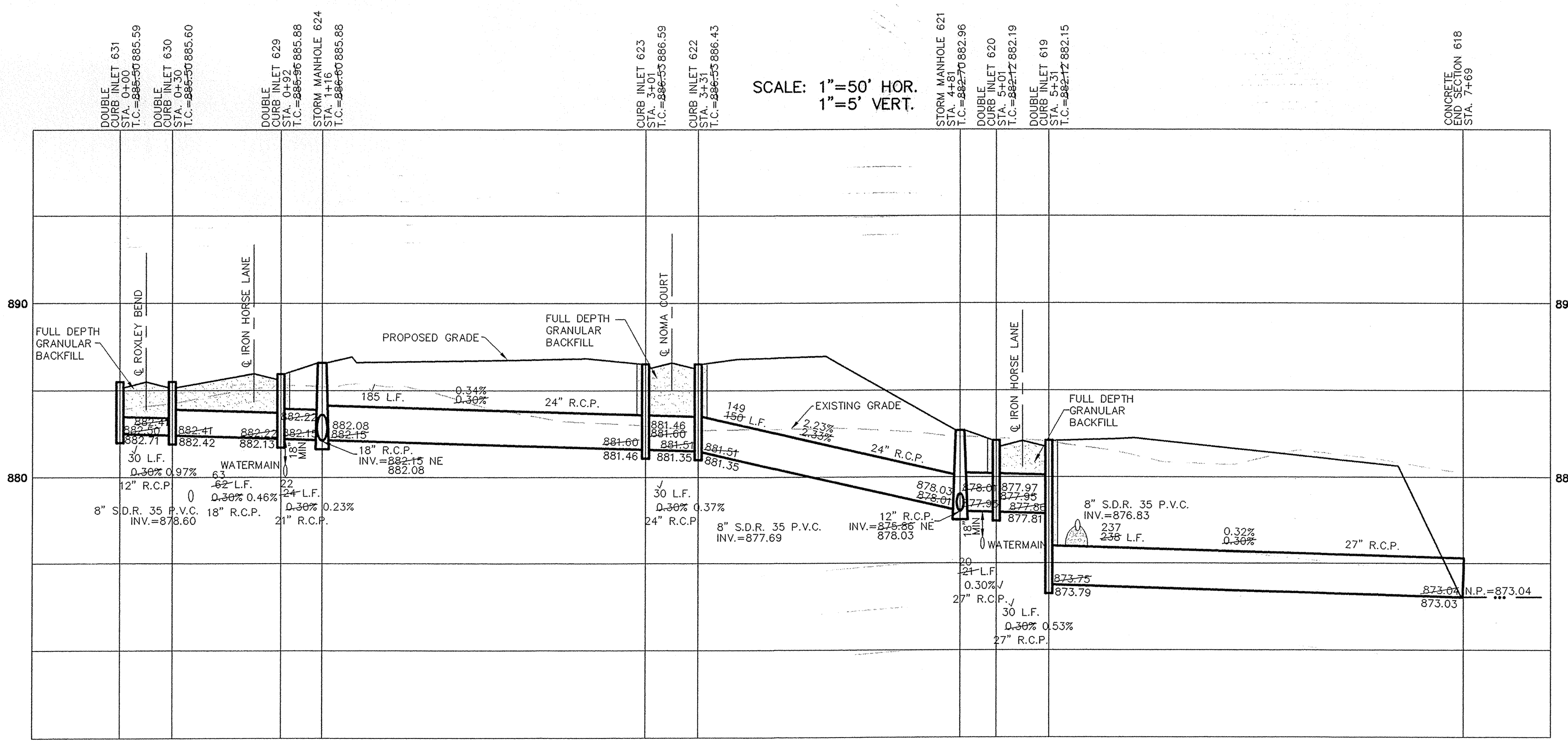
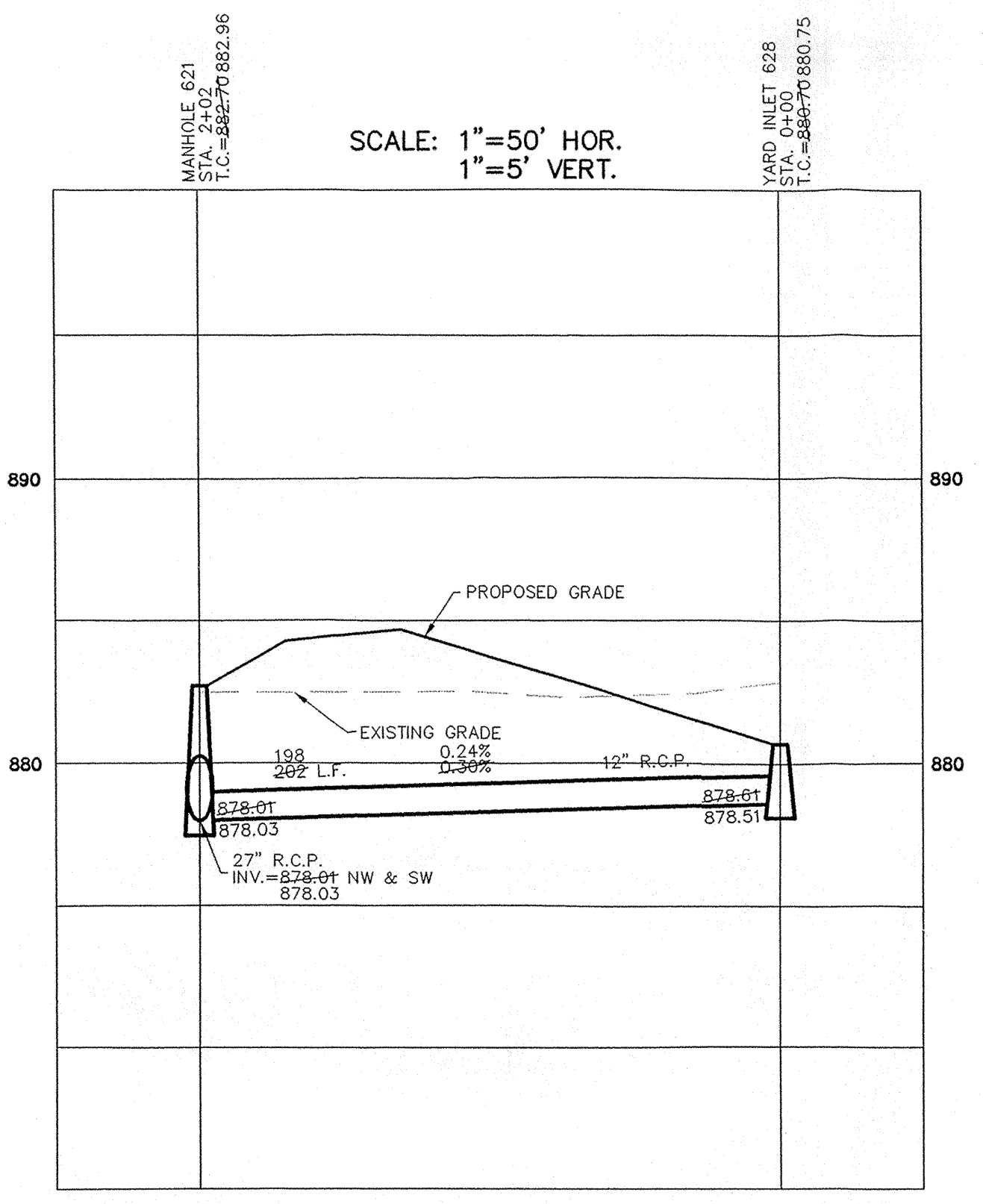
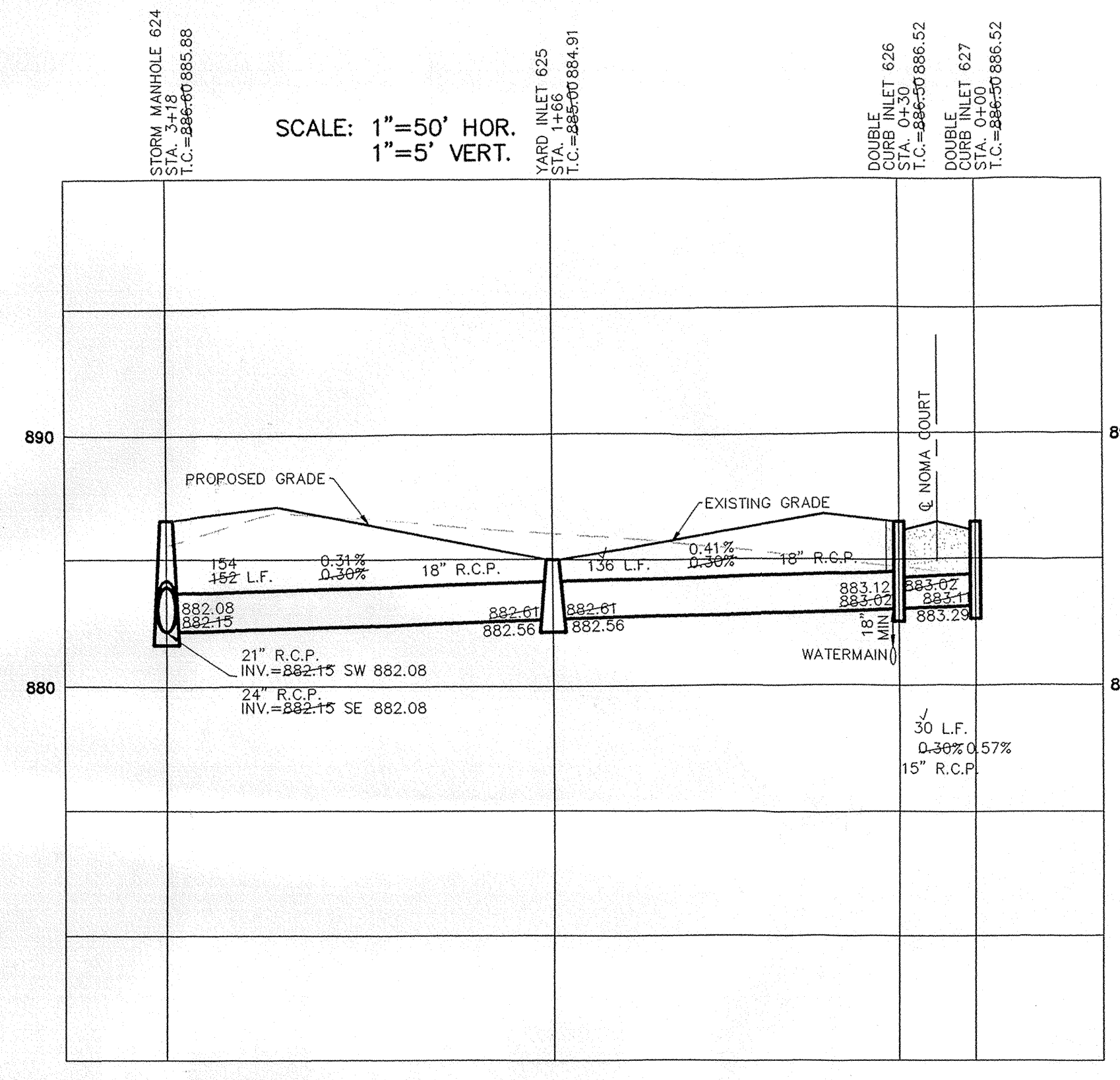
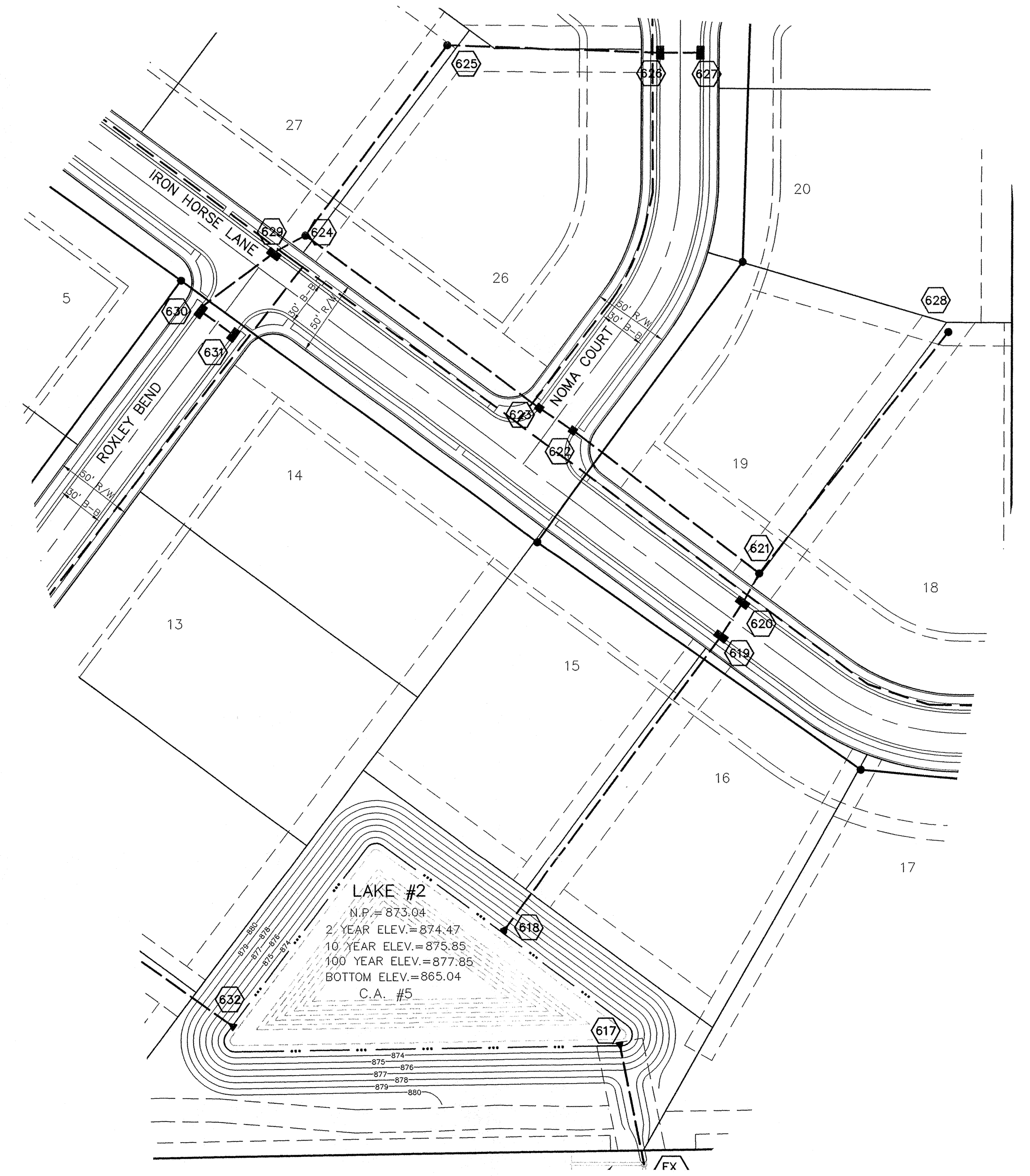
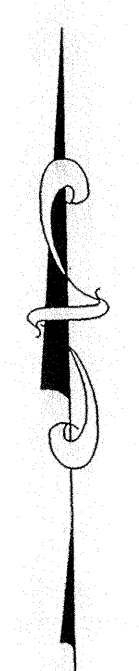
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 SHEET NO. C600  
 S & A JOB NO. 52645



DENOTES FULL DEPTH GRANULAR BACKFILL

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

SCALE: 1" = 50'

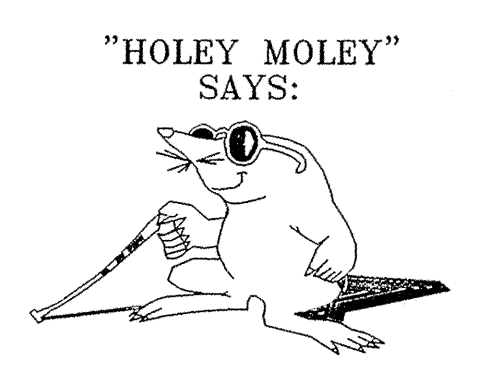


# RECORD DRAWING

*Jeffery W. Darling*  
JEFFORY W. DARLING  
Registered Land Surveyor  
No. 900017  
DATE: 9/27/06



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Entered By: SLM



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CALL CARMEL UTILITIES  
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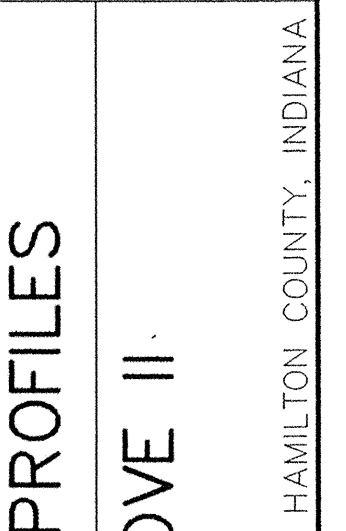
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## STORM PLAN & PROFILES WINDSOR GROVE II

STOEPPELWERTH & ASSOCIATES, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
9940 Allisonville Rd., Fishers, IN 46038-2005  
Phone: (317) 849-5935 Fax: (317) 849-5942  
Toll Free: (800) 728-6917

CERTIFIED: 1/3/06  
JAMES O. RINEHART IV  
REGISTERED  
No. 10209495  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

DATE	MARK	REVISIONS
1/31/06	AAA	REVISED PER TAC COMMENTS
3/17/06	AAA	REVISED PER TAC COMMENTS
5/17/06	AAA	REVISED PER TAC COMMENTS
7/27/06	AAA	REVISED PER TAC COMMENTS
9/27/06	AAA	REVISED PER TAC COMMENTS



DRAWN BY: TWF  
CHECKED BY: BKR  
SHEET NO.  
**C601**  
S & A JOB NO.  
52645

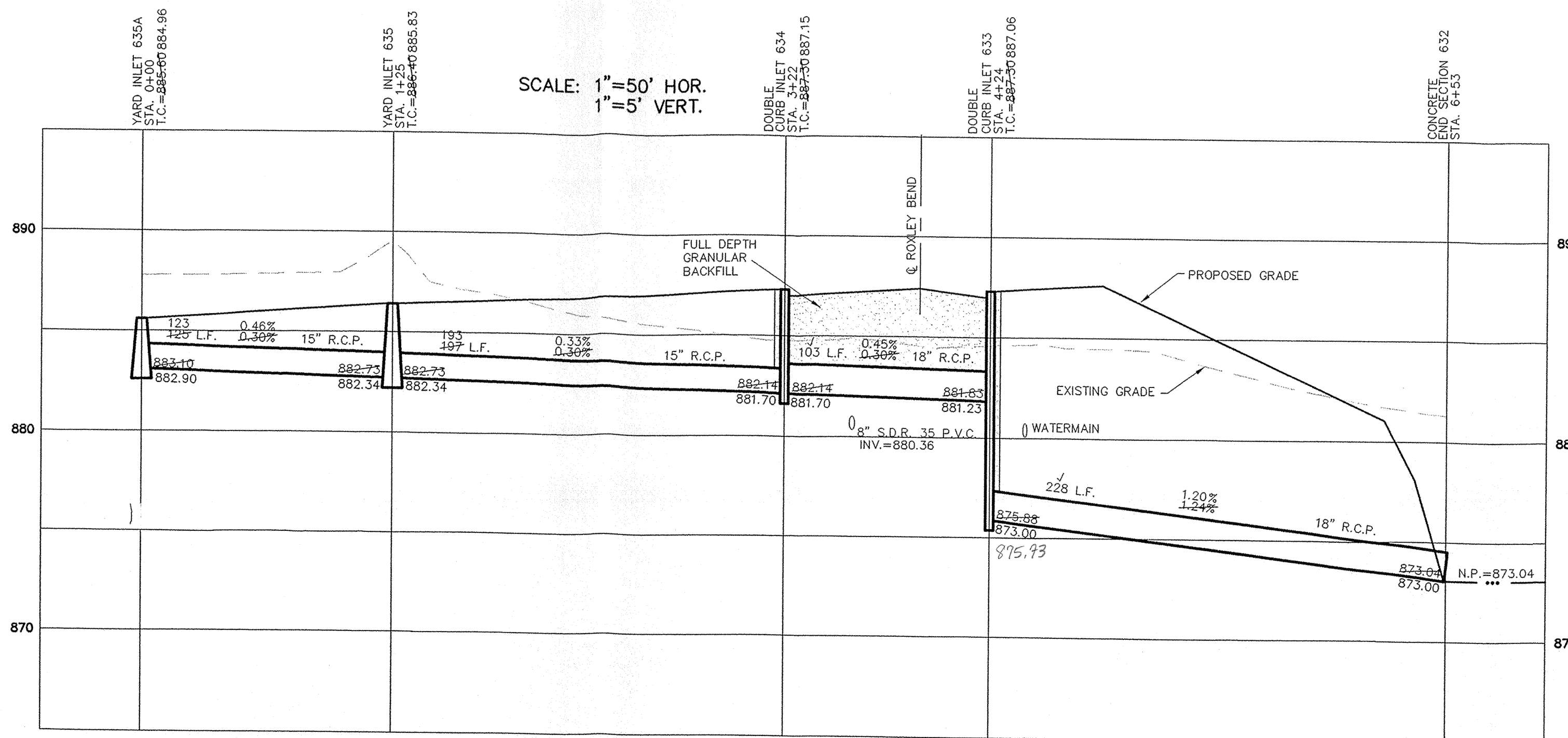
# RECORD DRAWING

*Jeffery W. Darling*  
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 Registered Land Surveyor  
 No. 900017

9/27/06  
 DATE

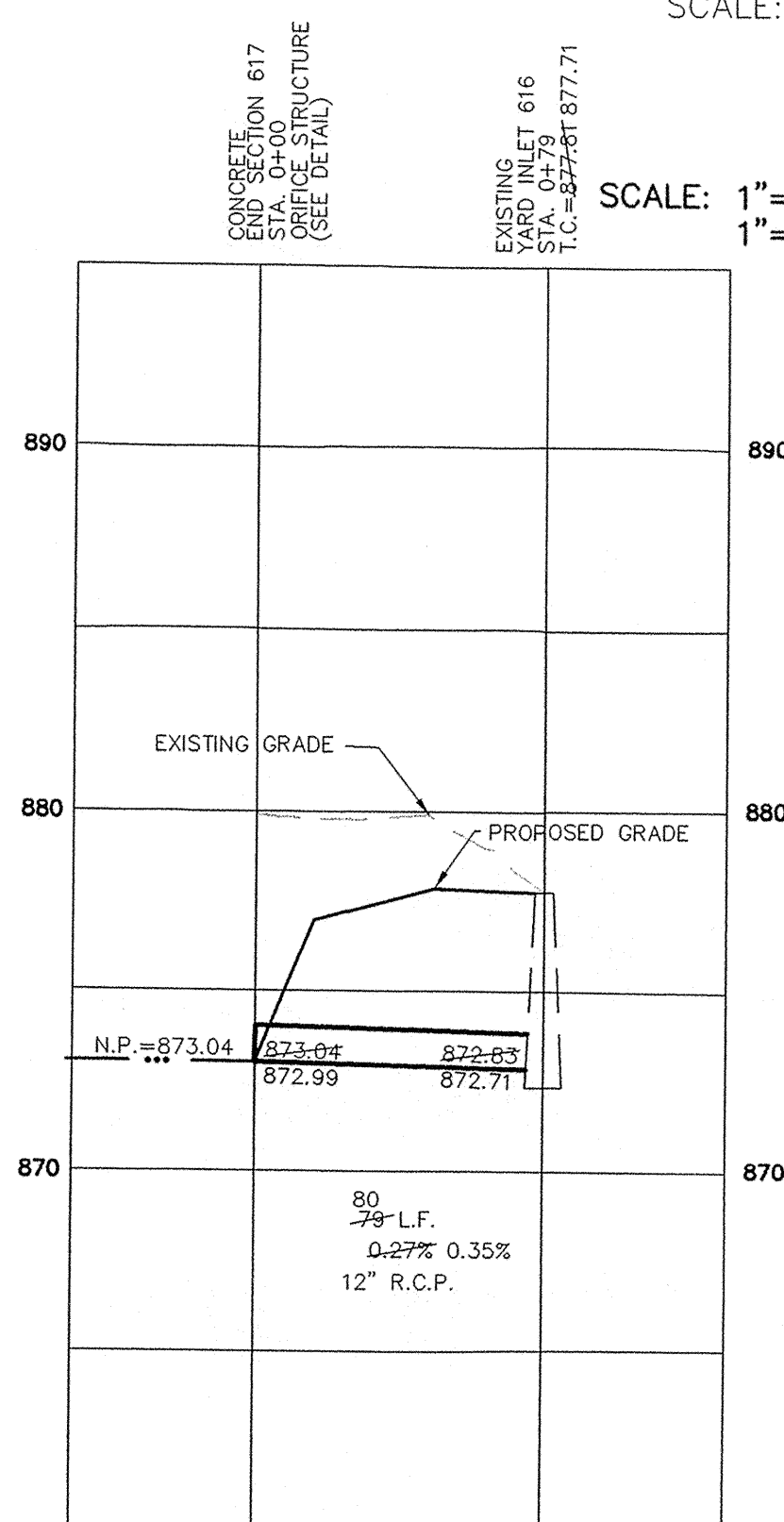


SCALE: 1" = 50' HOR.  
 1" = 5' VERT.



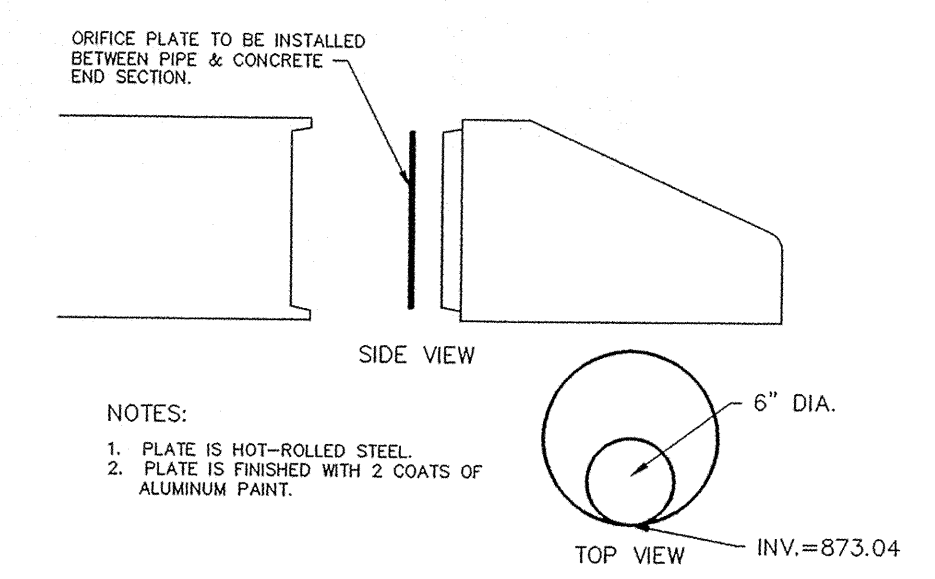
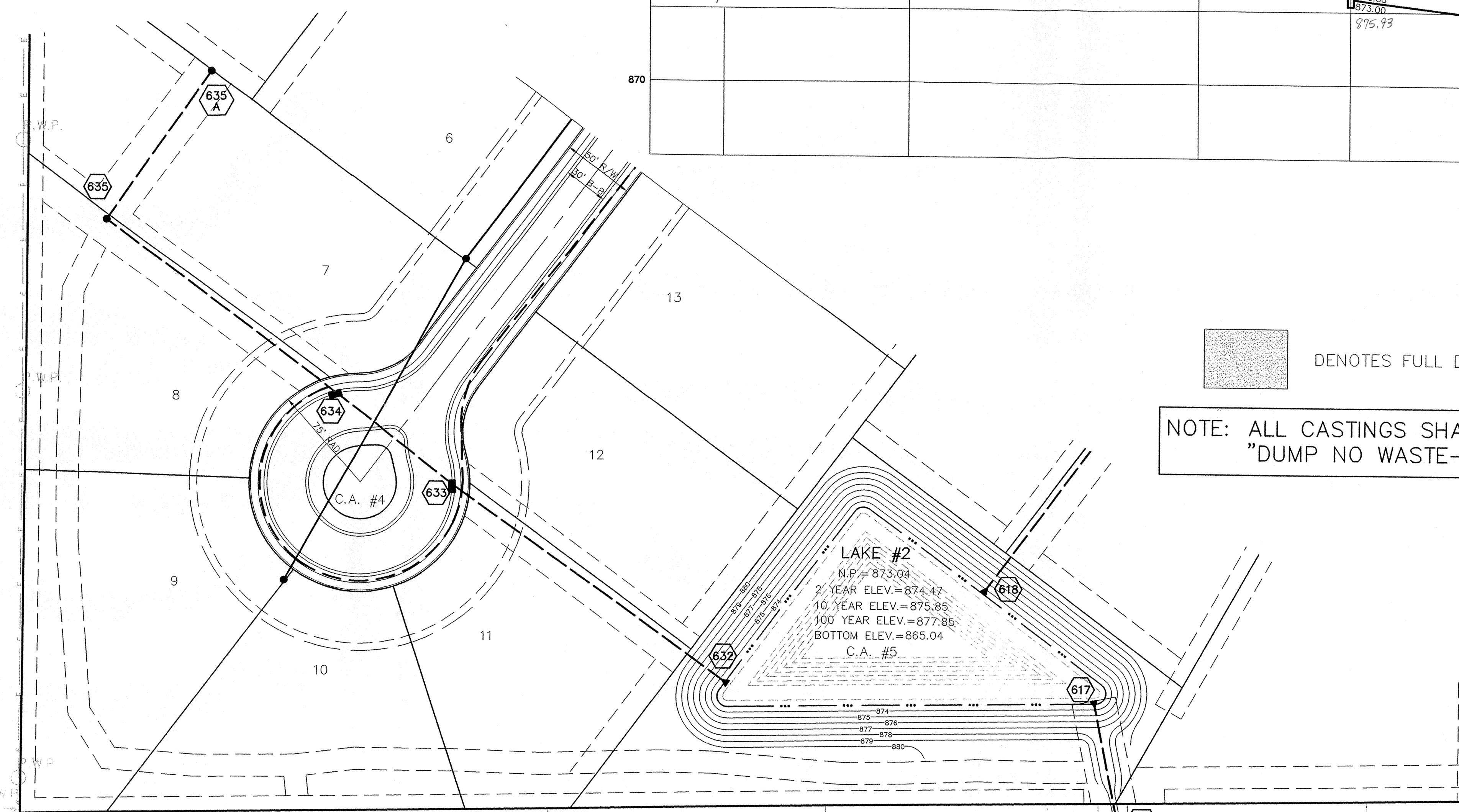
SCALE: 1" = 50'

SCALE: 1" = 50' HOR.  
 1" = 5' VERT.



■ DENOTES FULL DEPTH GRANULAR BACKFILL

NOTE: ALL CASTINGS SHALL BE LABELED  
 "DUMP NO WASTE—DRAINS TO WATERWAY".



NOTES:  
 1. PLATE IS HOT-ROLLED STEEL.  
 2. PLATE IS FINISHED WITH 2 COATS OF ALUMINUM PAINT.

ORIFICE PLATE DETAIL  
 STRUCTURE #617  
 NOT-TO-SCALE

"HOLEY MOLEY" SAYS:



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1-800-382-5544  
 CALL TOLL FREE  
 1-800-428-5200  
 FOR CALLS OUTSIDE OF INDIANA  
 1-317-571-2648  
 CALL CARMEL UTILITIES  
 (FOR WATER MAIN LOCATIONS)

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: 2-8-07  
 Entered By: SLM

Lot 17 Town Lake as per P.B. 15, page 54 Instr. # 91-20267  
 Lot 16 Town Lake as per P.B. 15, page 54 Instr. # 91-20267

IC=875.80  
 IE N 74° RCP=871.84  
 IF S 8° W 13" RCP=871.84

TOWNE LANE

DATE	REVISIONS
7/31/06	REVISED PER TAC COMMENTS
5/7/06	REVISED PER DET ANALYSIS
4/14/06	REVISED PER DEVELOPER
9/27/06	AS-BUILTS
CRM	
RMC	
AAA	
ACA	
BY	

CERTIFIED: 1/3/06

STOEPPELWERTH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 9940 Allisonville Rd., Fishers, IN 46038-2005  
 Phone: (317) 849-5935 Fax: (317) 849-5942  
 Toll Free: (800) 728-6917

HAMILTON COUNTY, INDIANA

CARMEL

STORM PLAN & PROFILES  
 WINDSOR GROVE II

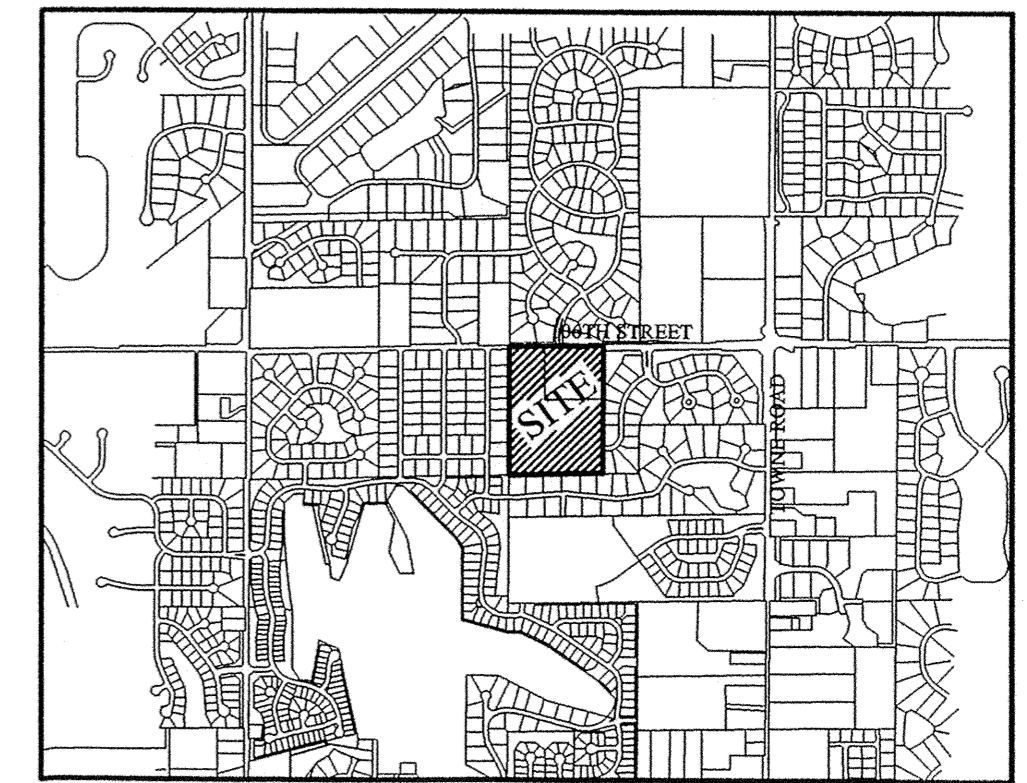
DRAWN BY: TWB CHECKED BY: BKR

SHEET NO. C602

S & A JOB NO. 52645

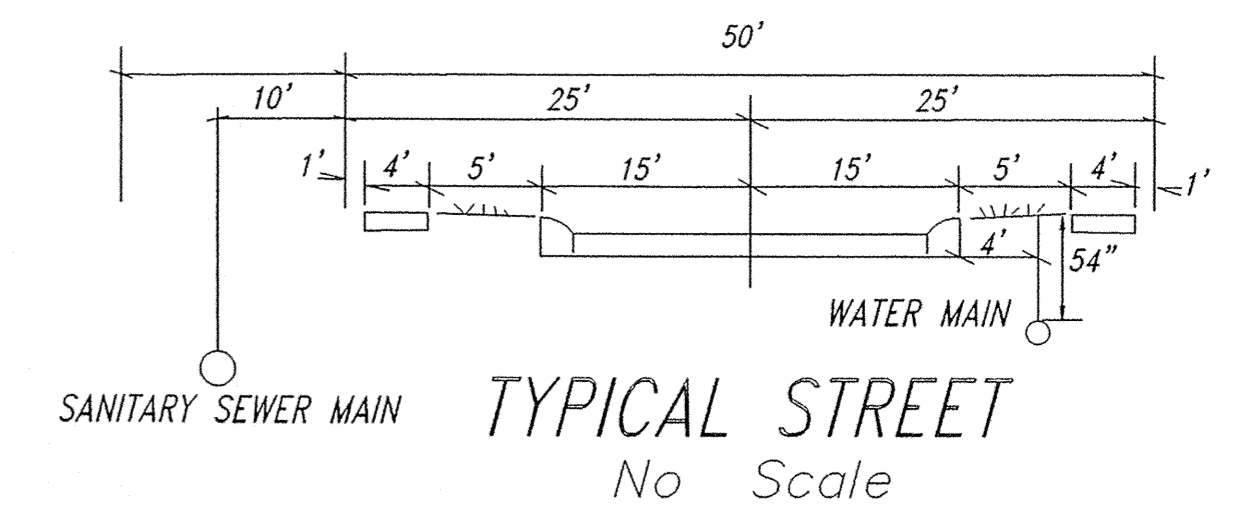


Project Location  
Scale: 1"=2000'



SCALE: 1" = 50'

INDIANAPOLIS WATER PROJECT LEGEND				
Project Name: WINDSOR GROVE, SECTION 2				
Project Number: J-06-103				
Job #	Street Name	Pipe Size	Pipe Type	Total Pipe
1	IRON HORSE LANE	8"	PVC	824' 823'
2	ROXLEY BEND	6"	PVC	435' 431'
3	NOMA COURT	6"	PVC	425' 424'
		3"	PE	195' 193'
				TOTAL 2545' 2500'



RECORD DRAWING

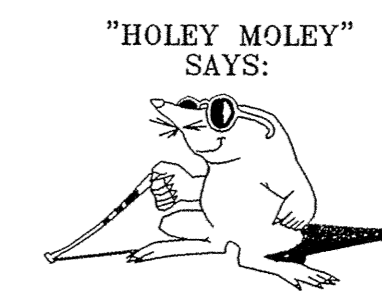
*Jeffery W. Darling*  
JEFFERY W. DARLING  
Registered Land Surveyor  
No. 900017  
DATE 8/30/06



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LEGEND

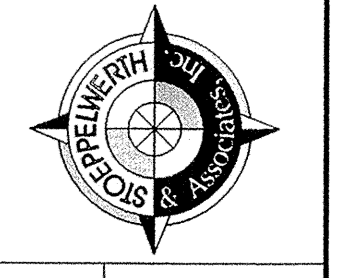
---	Existing Water Main
- - - -	Proposed Water Main
□	Inlet
○	Tree
•	Parcel Id
⊕	Adaptor
⊖	Bend
⊙	Kicker Block
⊕	Hydrant
⊕	Hydrant with Hydrant Valve
⊕	Butterfly Valve
⊕	Valve
⊕	Blowoff Assembly
⊕	Air Relief Valve
⊕	Plug
⊕	Reducer
⊕	T.J. Tee
⊕	M.J. Sleeve
⊕	Cross
—	Casing Pipe
—	Gas Lines
—	Telephone Lines
—	Electric Lines



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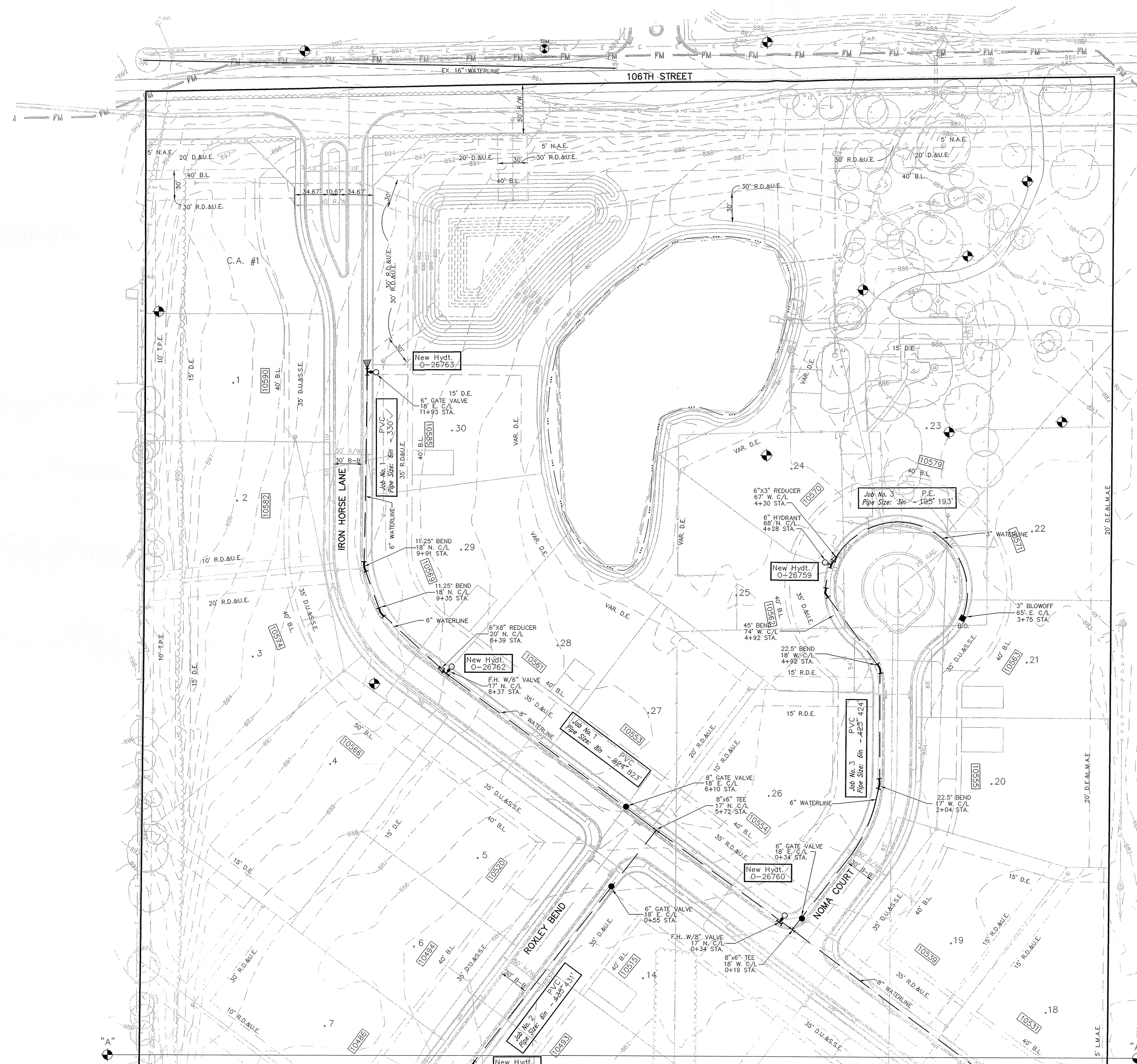


WATER PLAN  
WINDSOR GROVE II

INDIANA  
REGISTERED  
No. 10200495  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

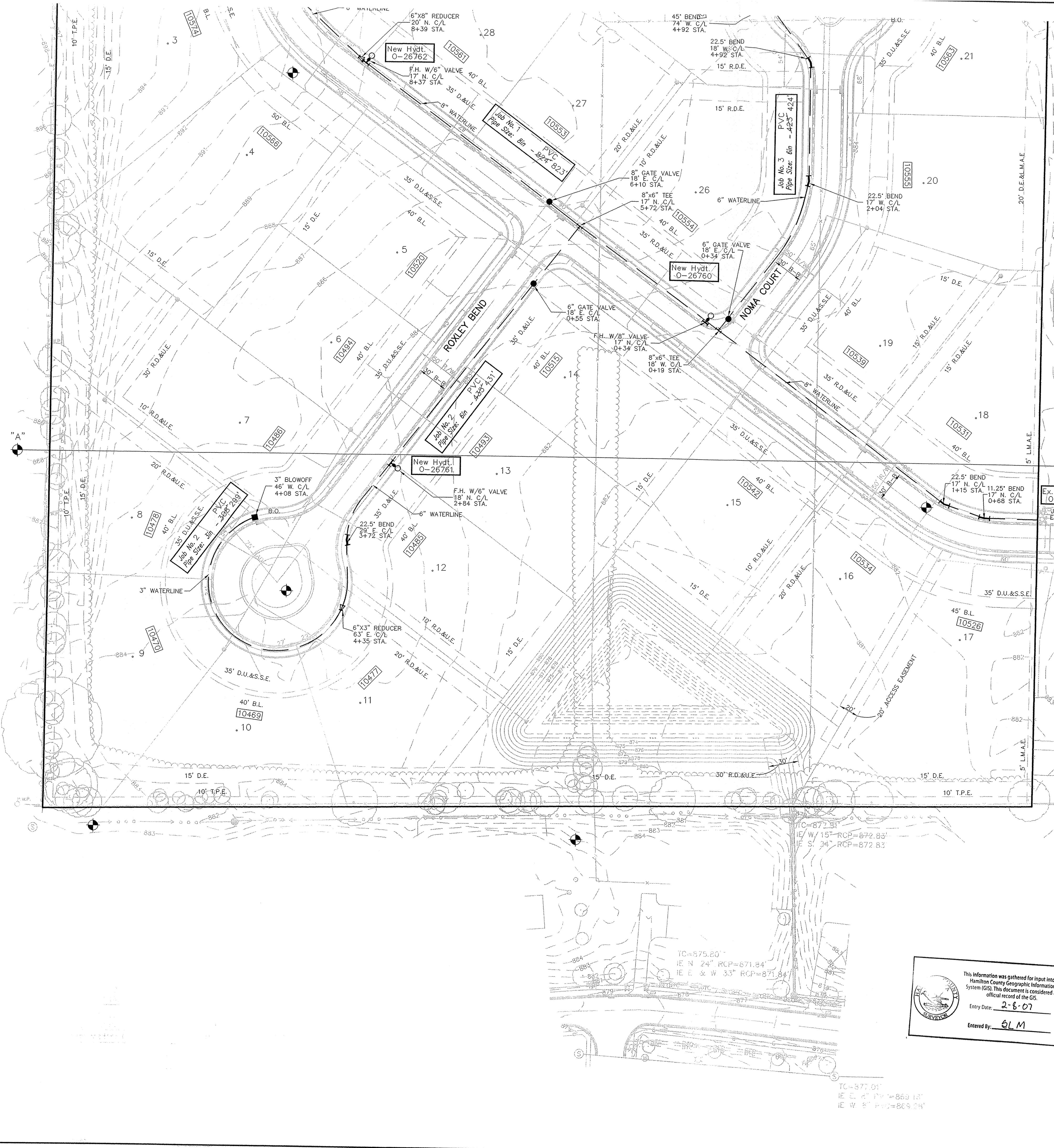
CERTIFIED: 1/3/06

DRAWN BY: TWF  
CHECKED BY: BKR  
SHEET NO. 1  
C700  
S & A JOB NO. 52645

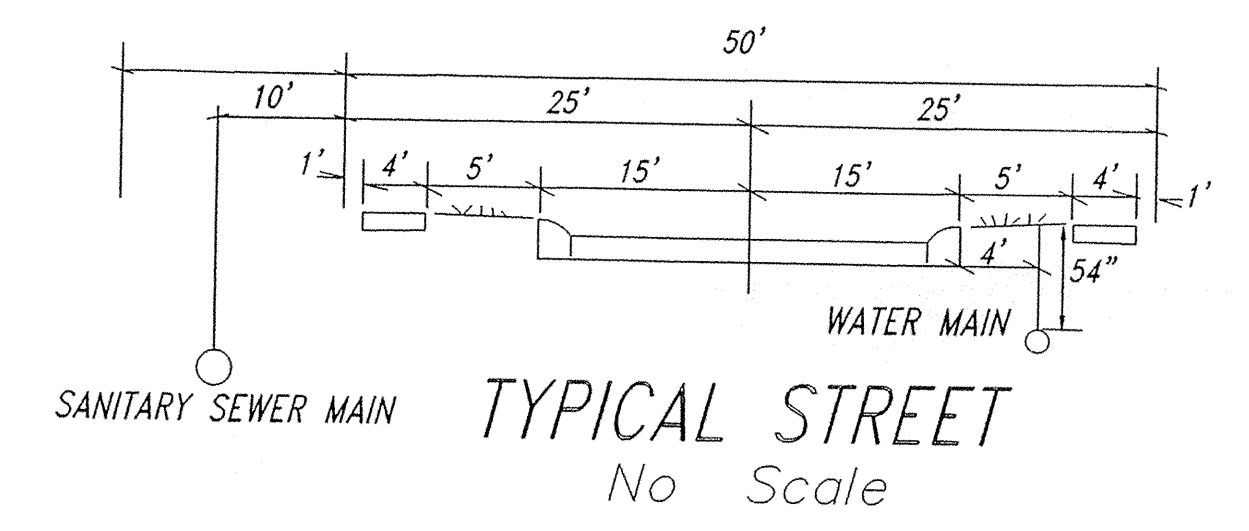
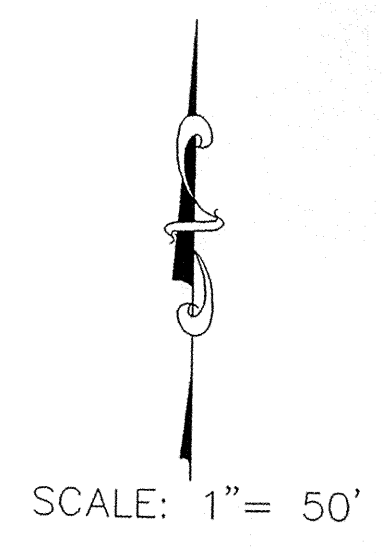
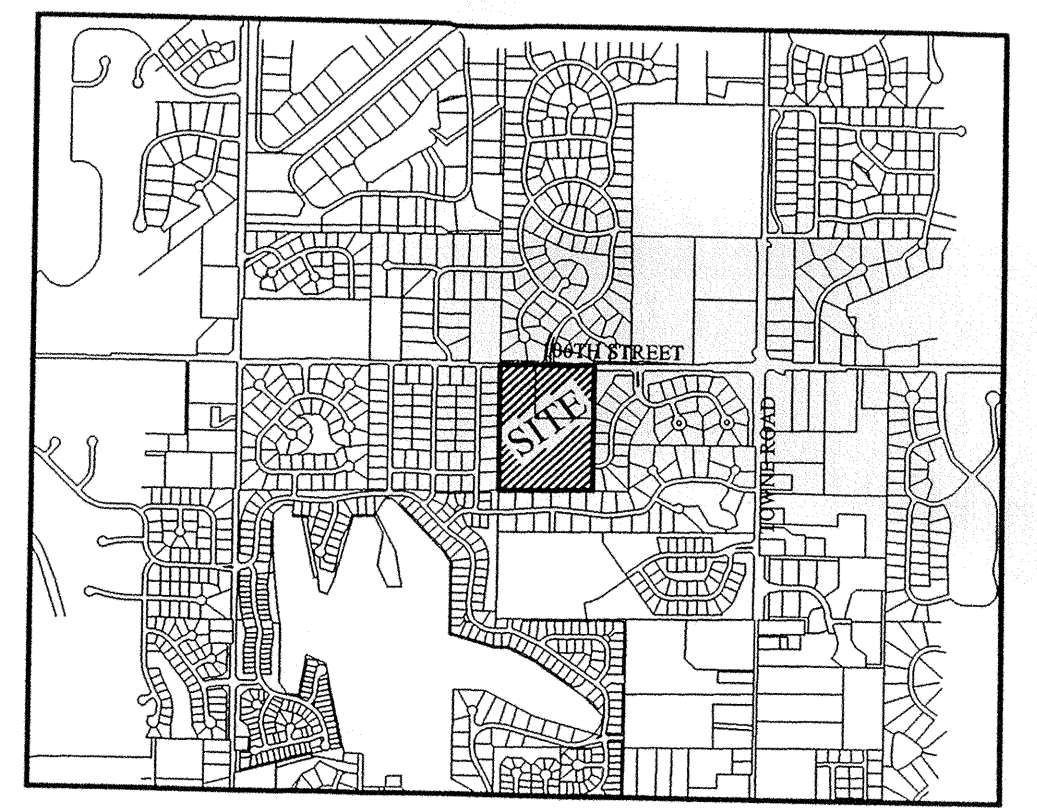


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S:\526452\dwg\C701-WATER-1WC.dwg, Layout1, 9/27/2006 3:21:59 PM, cmiller, 1:1



Project Location  
Scale: 1"=2000'



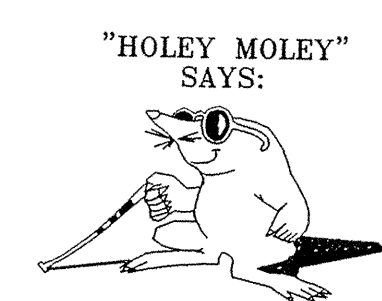
# RECORD DRAWING

*Jeff W. Darling*  
JEFFERY W. DARLING  
Registered Land Surveyor  
No. 900017  
DATE 8/30/06



- LEGEND**
- Existing Water Main
  - - - Proposed Water Main
  - Inlet
  - Tree
  - Parcel Id
  - ⊕ Adapter
  - ⊙ Bend
  - ⊕ Kicker Block
  - Hydrant
  - with Hydrant Valve
  - Butterfly Valve
  - Valve
  - ⊕ Blowoff Assembly
  - Air Relief Valve
  - Plug
  - Reducer
  - T.J. Tee
  - M.J. Sleeve
  - ⊕ Cross
  - Casing Pipe
  - Gas Lines
  - Telephone Lines
  - Electric Lines

Project Name WINDSOR GROVE, SECTION 2  
 Project Number J-06-103  
 Dist. Map No. 704  
 Meter Map No. 7044  
 Lots 30  
 Tax Code 29003  
 Pressure Dist LAFAYETTE  
 Drafter STOEPPELWERTH/KMC/BKR  
 Date 3/06



**"HOLEY MOLEY" SAYS:**  
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 Entry Date: 2-6-07  
 Entered By: JLM

ASBUILTS  
 REVISED PER VEDIA MARRUPS  
 KMC  
 AAA  
 DATE  
 MARK  
 REVISIONS  
 BY

JAMES O. RINEHART  
 REGISTERED  
 No. 10200495  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

CERTIFIED: 1/3/06

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HAMILTON COUNTY, INDIANA

WATER PLAN  
 WINDSOR GROVE II

DRAWN BY: TWJ  
 CHECKED BY: BKR  
 SHEET NO.  
**C701**  
 S & A JOB NO.  
 52645

