

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

January 13, 2005

TO: Hamilton County Drainage Board

RE: Long Branch Drain, The Townes At Weston Pointe Arm

Attached is a petition filed by Portrait Homes, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Weston Point Arm, Long Branch Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

The Weston Pointe Arm to Long Branch is being created because with Indiana Department of Transportation Phase 2 upgrade U.S. 421 (Michigan Road), it is anticipated that the outlet from this site will be captured in the roadway drainage system and run north to Long Branch Drain.

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 | 2,034 ft. | 18" RCP | 35 ft. | 36" RCP | 140 ft. |
| 12" RCP | 369 ft. | 21" RCP | 212 ft. | 11"x18" RCP | 48 ft. |
| 15" RCP | 90 ft. | 30" RCP | 382 ft. | | |

The total length of the drain will be 3,310 feet.

The retention pond (lake) located in Block E is not 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 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 section will be \$455.00.

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 Letter of Credit are as follows:

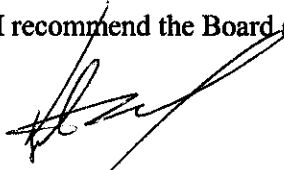
Agent: Washington Mutual
Date: May 28, 2004
Number: STB-2499
For: Storm Sewer
Amount: \$227,334.13

Agent: Washington Mutual
Date: May 28, 2004
Number: STB-2497
For: Erosion Control
Amount: \$23,967.48

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 of the secondary plat for The Townes at Weston Pointe, Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for February 28, 2005.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

**Towns at Weston Pointe
GASB 34 Calculation**

Long Branch Drain – Towns at Weston Pointe: 3310 ft
Crooked Creek Drain – Towns at Weston Pointe: 5785 ft

Total Footage = 9095 ft
Bond Amount = \$257,301.61

Long Branch-Towns at Weston Pointe: $.36(\$257,301.61) = \$92,628.58$
Crooked Creek – Towns at Weston Pointe: $.64(\$257,301.61) = \$164,673.03$

FINDINGS AND ORDER

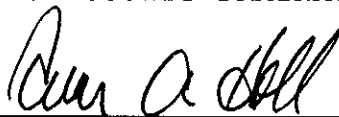
CONCERNING THE MAINTENANCE OF THE

Long Branch Drain, Townes At Weston Pointe Arm


On this *28th day of February 2005*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Long Branch Drain, Townes At Weston Pointe 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.

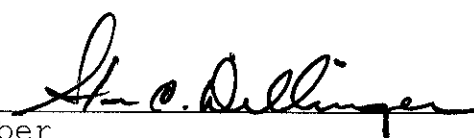
HAMILTON COUNTY DRAINAGE BOARD



President




Member



Member

Attest:





K.W.

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

June 30, 2009

Re: Long Branch Drain: Townes at Weston Pointe Arm

Attached are as-builts, certificate of completion & compliance, and other information for Townes at Weston Pointe. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated January 13, 2005. The report was approved by the Board at the hearing held February 28, 2009. (See Drainage Board Minutes Book 8, Pages 205-206)
 The changes are as follows:

| Structure: | Length: | Size | Material: | Up Invert: | Dn Invert | Grade: | Changes: |
|------------|---------|-------|-----------|------------|-----------|--------|----------|
| 605-603 | 48 | 18X11 | RCAP | 897.97 | 897.52 | 0.94 | |
| 604-603 | 272 | 12 | RCP | 898.27 | 897.52 | 0.28 | 2 |
| 617-616 | 98 | 12 | RCP | 900.44 | 899.45 | 1.01 | -1 |
| 616-615a | 90 | 15 | RCP | 899.45 | 899 | 0.5 | |
| 615a-615 | 35 | 18 | RCP | 898.9 | 898.29 | 0.29 | |
| 615-614 | 68 | 21 | RCP | 898.9 | 898.29 | 0.9 | -3 |
| 611-610 | 26 | 36 | RCP | 898.94 | 898.65 | 1.12 | -4 |
| 610-609 | 48 | 36 | RCP | 898.65 | 898.42 | 0.48 | |
| 609-608 | 53 | 36 | RCP | 898.42 | 898.28 | 0.26 | -9 |
| 606-606a | 250 | 18 | RCP | 899.4 | 898.8 | 0.24 | -4 |
| 606a-606c | 18 | 18 | RCP | 898.8 | 898.57 | 1.28 | |
| 606c-606d | 48 | 30 | RCP | 898.57 | 898.4 | 0.35 | |
| 606d-606b | 53 | 30 | RCP | 898.4 | 898.28 | 0.23 | -9 |
| 603-602 | 48 | 21 | RCP | 897.52 | 897.3 | 0.45 | 12 |

RCP & RCAP Pipe Totals:

| | |
|-------|-----|
| 12 | 370 |
| 15 | 90 |
| 18 | 303 |
| 18X11 | 48 |
| 21 | 116 |
| 30 | 101 |

6" SSD Totals:

| | |
|------------------|-------------|
| Weston Pt. Drive | |
| | 2234 |
| Total | <u>2234</u> |

| | | |
|---------------|----|-------------|
| | 36 | 127 |
| Total: | | <u>1155</u> |

The length of the drain due to the changes described above is now **3389 feet**.

The non-enforcement was approved by the Board at its meeting on February 28, 2009 and recorded under instrument # 200500013398.

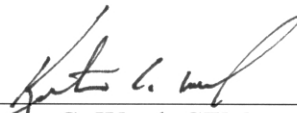
The following sureties were guaranteed by Washington Mutual and expired on May 28, 2005.

Bond-LC No: STB-2499
Insured For: Storm Sewers
Amount: \$227,334.13
Issue Date: May 28, 2004

Bond-LC No: STB-2497
Insured For: Erosion Control
Amount: \$23,967.48
Issue Date: May 28, 2004

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

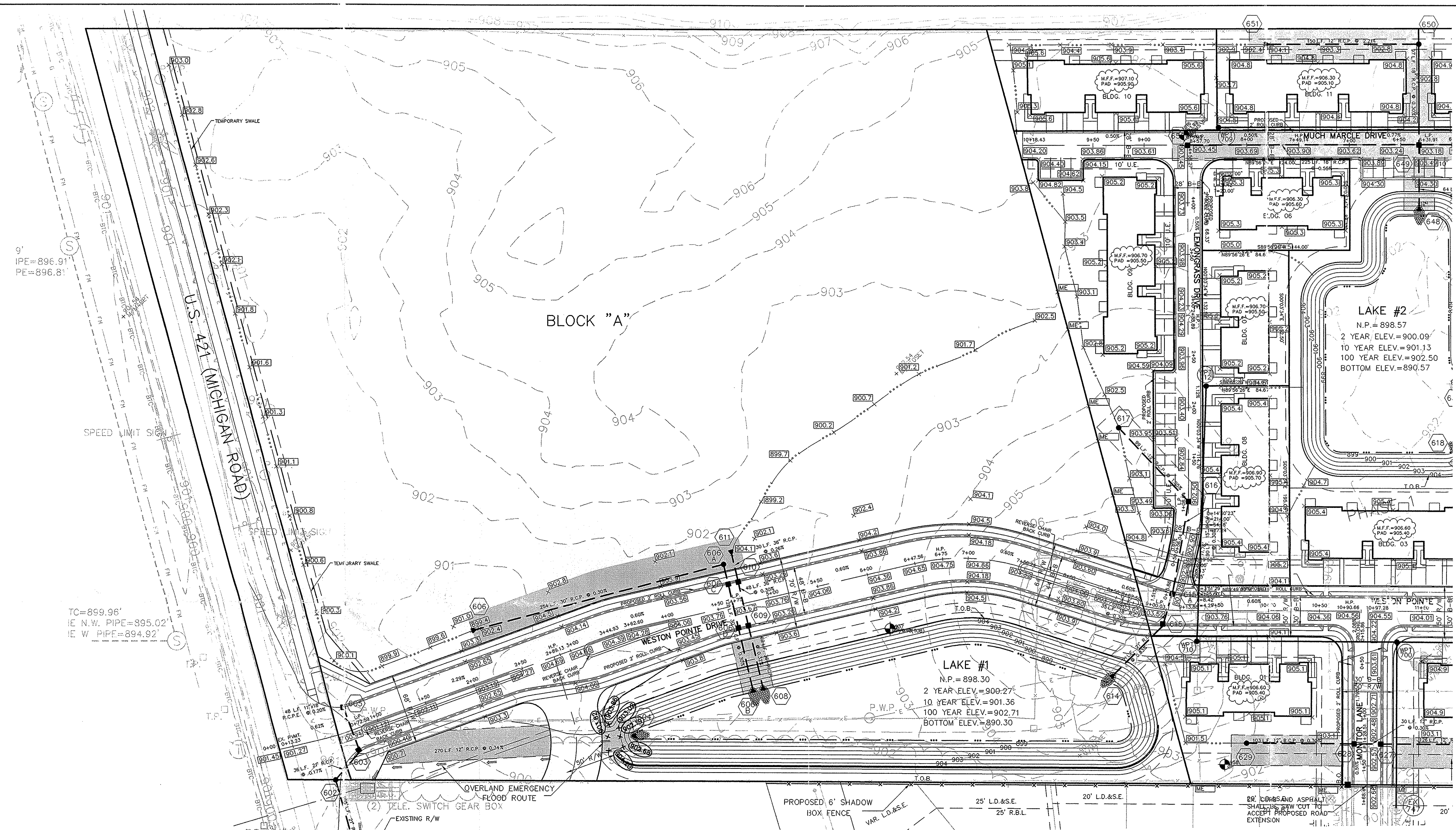
Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

S:\1796551\wg\C200-Site Development Plan.dwg, Layout1, 11/2/2005 3:36:49 PM, kourminis, 1:1



SCALE: 1" = 50'



This information was prepared by me from the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: 5/24/2004
Entered By: SLH

| | | |
|----------|-----|-------------------------------------|
| DATE | BY | REVISIONS |
| 12/12/03 | AAA | BASE M.F.F. 1' ASBOK PAD |
| 7/8/04 | AAA | RE-GRADE ENTRANCE, REVERSE 603 T.C. |
| 02/27/04 | BWR | ADDED CURB INLET 606-608 |
| 02/27/04 | BWR | RECEIVED PER ADJUT COMMENTS |
| 02/27/04 | BWR | RECEIVED PER ADJUT COMMENTS |
| 02/27/04 | BWR | RECEIVED PER ADJUT COMMENTS |
| 02/27/04 | BWR | RECEIVED PER ADJUT COMMENTS |
| 12/12/03 | AAA | DATE |
| 12/12/03 | AAA | MARK |
| 12/12/03 | AAA | BY |

CERTIFIED: 12/12/03

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

SITE DEVELOPMENT PLAN
THE TOWNSE AT
WESTON POINTE SECTION ONE
INDIANA CARMEL

SHEET NO. C200
JOB NO. 37963

LEGEND

- EXISTING EDGE OF WOODS
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- MATCH EXISTING
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
(DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL DEDICATED R/W)
- MINIMUM FINISH FLOOR ELEVATION
- PAD ELEVATION
- M.F.F. 874.1
- ROLL CURB
- 6" SUBSURFACE DRAIN

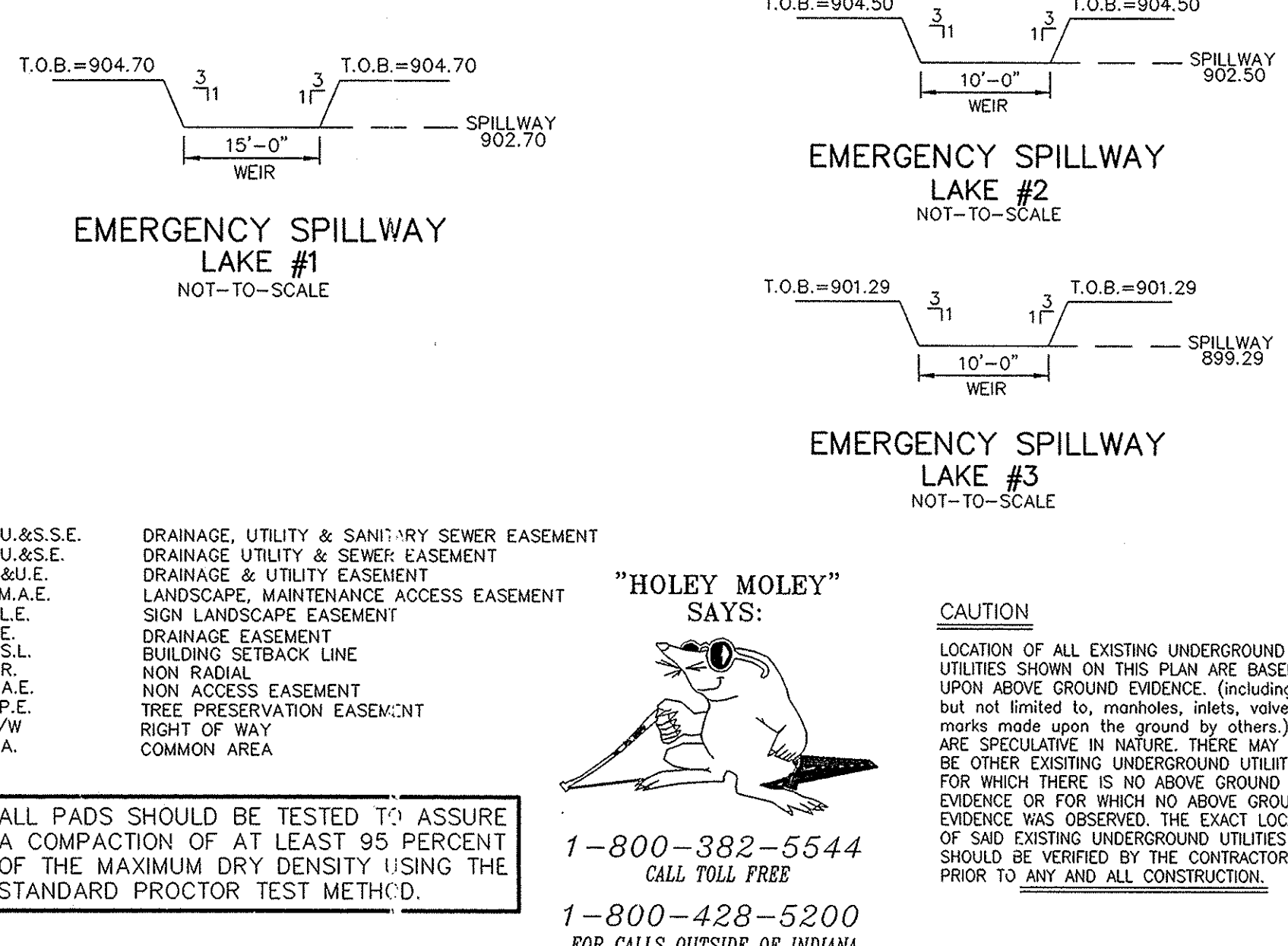
NOTE:
ALL GRANULAR BACKFILL WITHIN THE DEDICATED R/W MUST BE MECHANICALLY COMPACTED.

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

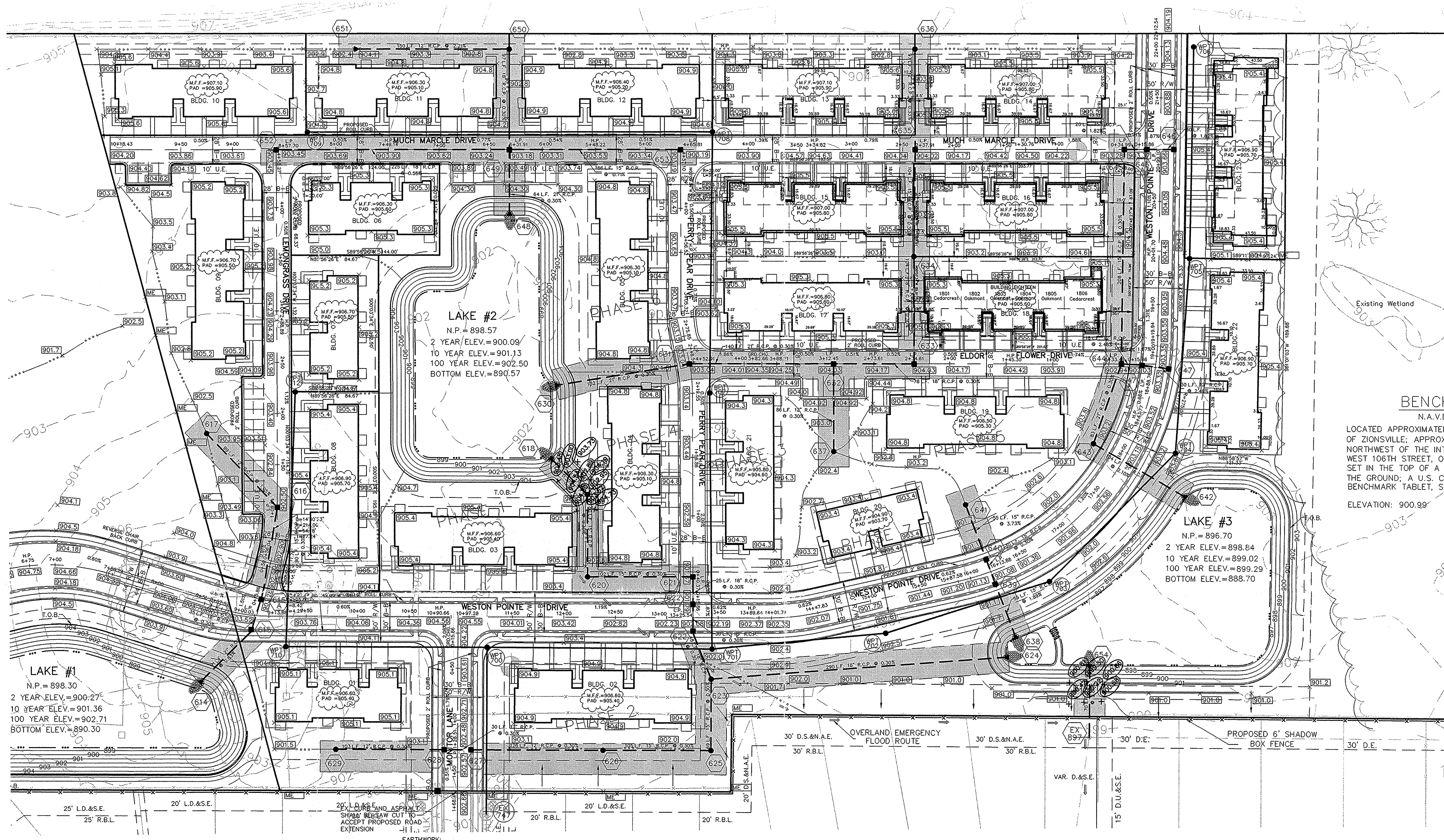
NOTE:
ALL AREAS OUTSIDE OF THE DEDICATED R/W AND BUILDINGS SHALL BE COMMON AREAS. ALL COMMON AREAS SHALL BE UTILITY, DRAINAGE, AND SANITARY SEWER EASEMENTS.

BENCHMARK
N.A.V.D. 1988
LOCATED APPROXIMATELY 1.2 MILES SOUTHEAST OF ZIONSVILLE; APPROXIMATELY 0.24 MILE NORTHWEST OF THE INTERSECTION OF U.S. 421 AND WEST 106TH STREET, ON THE EAST SIDE OF U.S. 421; SET IN THE TOP OF A CONCRETE POST, 0.5 FOOT ABOVE THE GROUND; A U.S. COAST AND GEODETIC SURVEY BENCHMARK TABLET, STAMPED "S 78 1946".
ELEVATION: 900.99

- 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.
 - REMOVAL OF TREES**
 - A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
 - 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 root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
 - REMOVAL OF TOPSOIL**
 - A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. 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 0.50 feet above established subgrade. All other areas shall not exceed 0.50 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.



S:\3795531\wg\C201-Site Development Plan.dwg, Layout1, 11/2/2005 3:38:05 PM, kaummins, 1:1



SCALE: 1" = 50'



BENCHMARK
N.A.V.D. 1988
LOCATED APPROXIMATELY 1.2 MILES SOUTHEAST OF ZIONSVILLE; APPROXIMATELY 0.24 MILE NORTHWEST OF THE INTERSECTION OF U.S. 421 AND WEST 106TH STREET, ON THE EAST SIDE OF U.S. 421; SET IN THE TOP OF A CONCRETE POST, 0.5 FOOT ABOVE THE GROUND; A U.S. COAST AND GEODETIC SURVEY BENCHMARK TABLET, STAMPED "S 78 1946".
ELEVATION: 900.99'

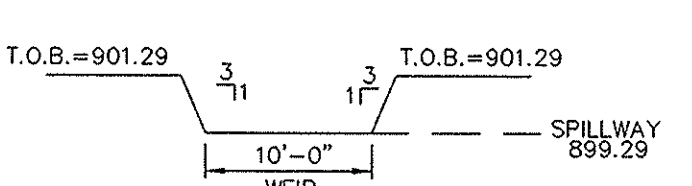
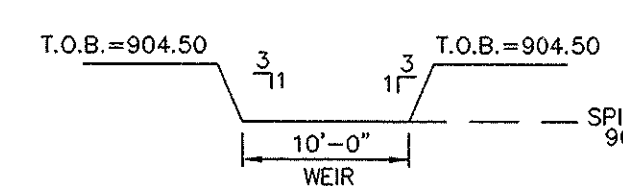
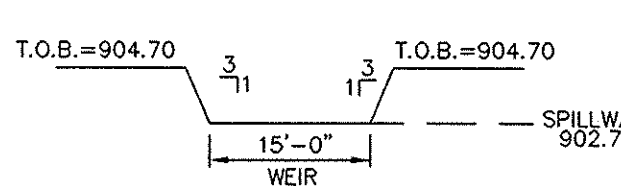
LAKE #1
N.P. = 898.30
2 YEAR ELEV. = 900.27'
10 YEAR ELEV. = 901.36'
100 YEAR ELEV. = 902.71'
BOTTOM ELEV. = 890.30'

LAKE #2
N.P. = 898.57
2 YEAR ELEV. = 900.09'
10 YEAR ELEV. = 901.13'
100 YEAR ELEV. = 902.50'
BOTTOM ELEV. = 890.57'

LAKE #3
N.P. = 896.70
2 YEAR ELEV. = 898.84'
10 YEAR ELEV. = 899.02'
100 YEAR ELEV. = 899.29'
BOTTOM ELEV. = 888.70'

- LEGEND**
- EXISTING EDGE OF WOODS
 - EXISTING CONTOUR
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED GRADE
 - MATCH EXISTING
 - PROPOSED CONTOUR
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - PROPOSED SWALE
 - PROPOSED 5' SIDEWALK (BY HOME BUILDER)
(DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL DEDICATED R/W)
 - MINIMUM FINISH FLOOR ELEVATION
 - PAD ELEVATION
- M.F.F. 874.1**

- 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 shall be removed from areas to be occupied by a road surface or structure area. 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 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
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 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 0.50 feet above established subgrade. All other areas shall not exceed 0.50 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.



NOTE:
ALL GRANULAR BACKFILL WITHIN THE DEDICATED R/W MUST BE MECHANICALLY COMPACTED.

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

NOTE:
ALL AREAS OUTSIDE OF THE DEDICATED R/W AND BUILDINGS SHALL BE COMMON AREAS. ALL COMMON AREAS SHALL BE UTILITY, DRAINAGE, AND SANITARY SEWER EASEMENTS.

- D.U.&S.E. DRAINAGE, UTILITY & SANITARY SEWER EASEMENT
- D.U.&S.E. DRAINAGE UTILITY & SEWER EASEMENT
- D.&U.E. DRAINAGE & UTILITY EASEMENT
- L.M.A.E. LANDSCAPE, MAINTENANCE, ACCESS EASEMENT
- S.L.E. SIGN LANDSCAPE EASEMENT
- D.E. DRAINAGE EASEMENT
- B.S.L. BUILDING SETBACK LINE
- N.R. NON RADIAL
- N.A.E. NON ACCESS EASEMENT
- T.P.E. TREE PRESERVATION EASEMENT
- R/W COMMON AREA

NOTE:
ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

"HOLEY MOLEY" SAYS:

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

CAUTION
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.

SITE DEVELOPMENT PLAN
THE TOWNSE AT WESTON POINTE SECTION ONE

CERTIFIED: 12/12/03
CONSULTING ENGINEERS - LAND SURVEYORS
(317) 849-5835 1-800-728-6817 FAX: (317) 849-5942
INDIANA
FIBERS

INDIANA
REGISTERED PROFESSIONAL ENGINEER
No. 10200495
STATE OF INDIANA

INDIANA
REGISTERED PROFESSIONAL SURVEYOR
No. 10200495
STATE OF INDIANA

INDIANA
REGISTERED PROFESSIONAL LAND SURVEYOR
No. 10200495
STATE OF INDIANA

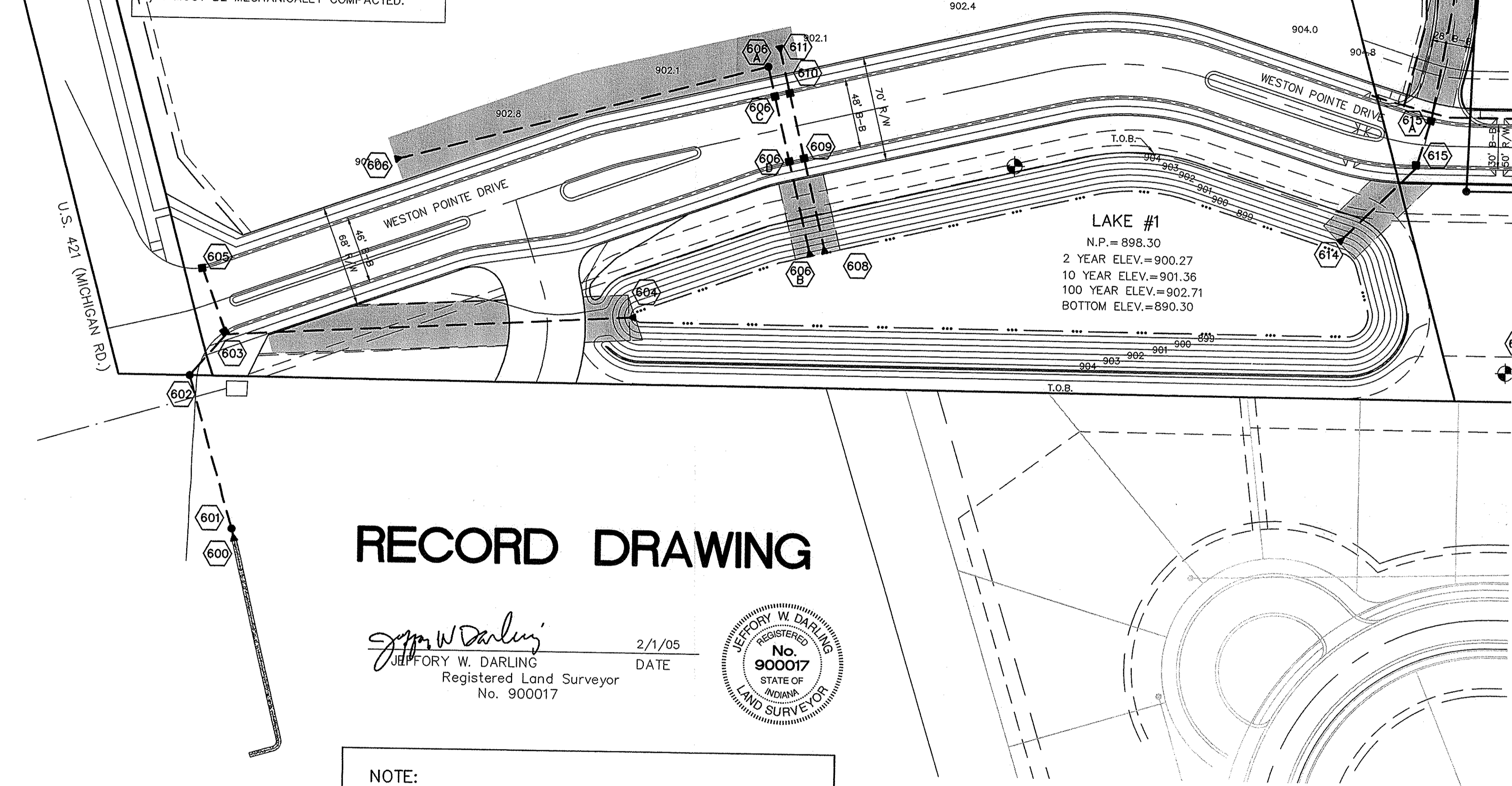
SHEET NO. **C201**
JOB NO. 37963

| CURB INLET TABLE | | | | | | |
|------------------|---|--|--|----------------|------------------------|-----------------------|
| PIPE SIZE | STRUCTURES LESS THAN 48" FROM T/C TO INVERT | STRUCTURES GREATER THAN 48" FROM T/C TO INVERT | ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN | STEPS REQUIRED | CURB CASTING *R-3501 N | CASTING *3501 TL & TR |
| 12" to 18" | 24"x24" | | DESIGN APPROVAL | No | Yes | Yes |
| 12" to 21" | 30"x30" | | DESIGN APPROVAL | No | Yes | Yes |
| 18" to 21" | | MH/BOX | DESIGN APPROVAL | Yes | Yes | Yes |
| 21" to 27" | 24"x36" | | DESIGN APPROVAL | No | No | Yes |
| 12" to 24" | 36"x36" | | DESIGN APPROVAL | No | Yes | Yes |
| 24" OR LARGER | | | DESIGN APPROVAL | No | No | Yes |
| 24" or LARGER | | MH/BOX | DESIGN APPROVAL | Yes** | Yes | Yes |

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX
 ** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

NOTE:
 ALL GRANULAR BACKFILL WITHIN THE DEDICATED R/W MUST BE MECHANICALLY COMPACTED.

SPECIAL NOTE:
 STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A MAN OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.
 SPECIAL NOTE:
 STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES
 SPECIAL NOTE:
 COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

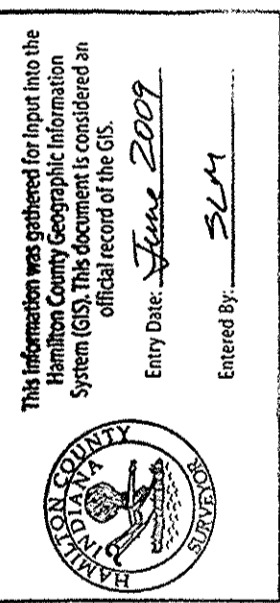
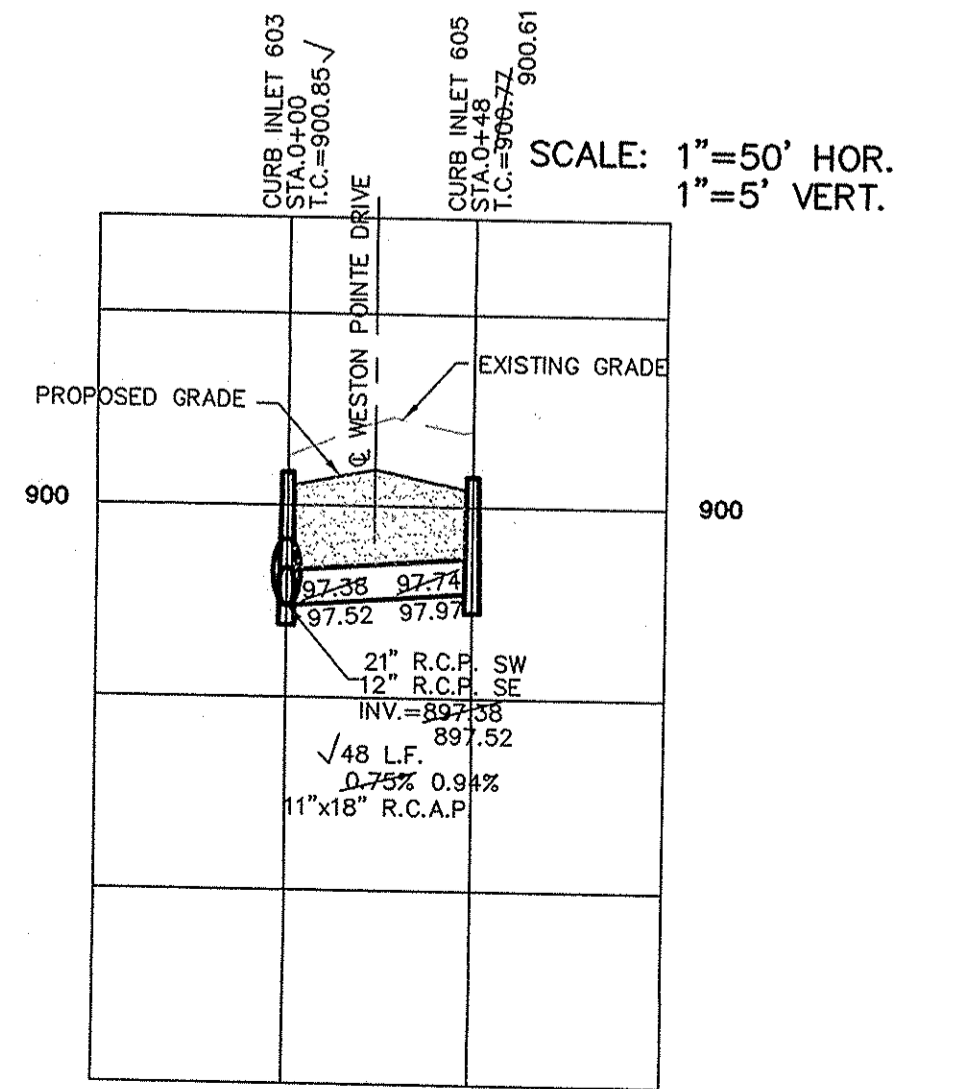
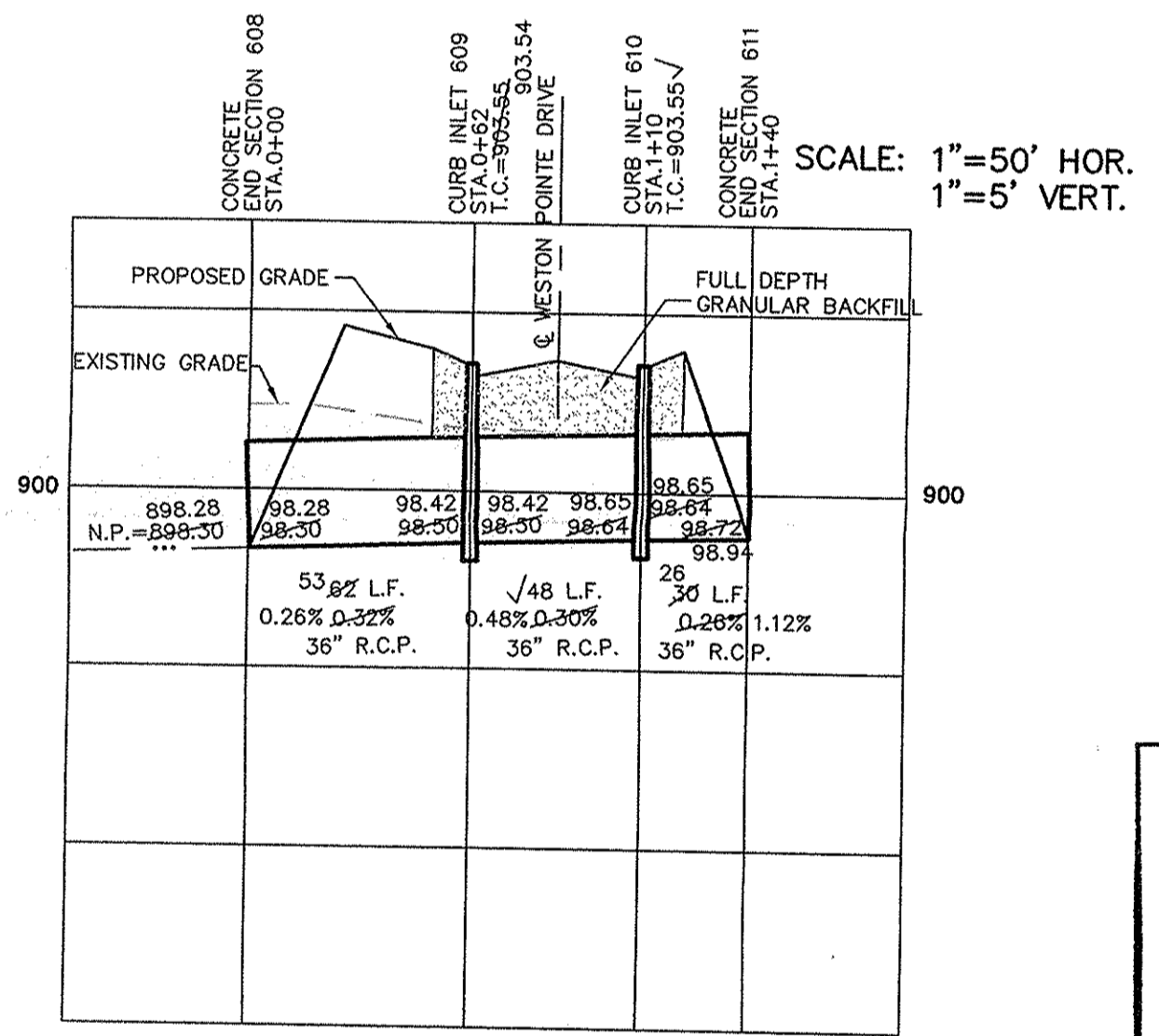
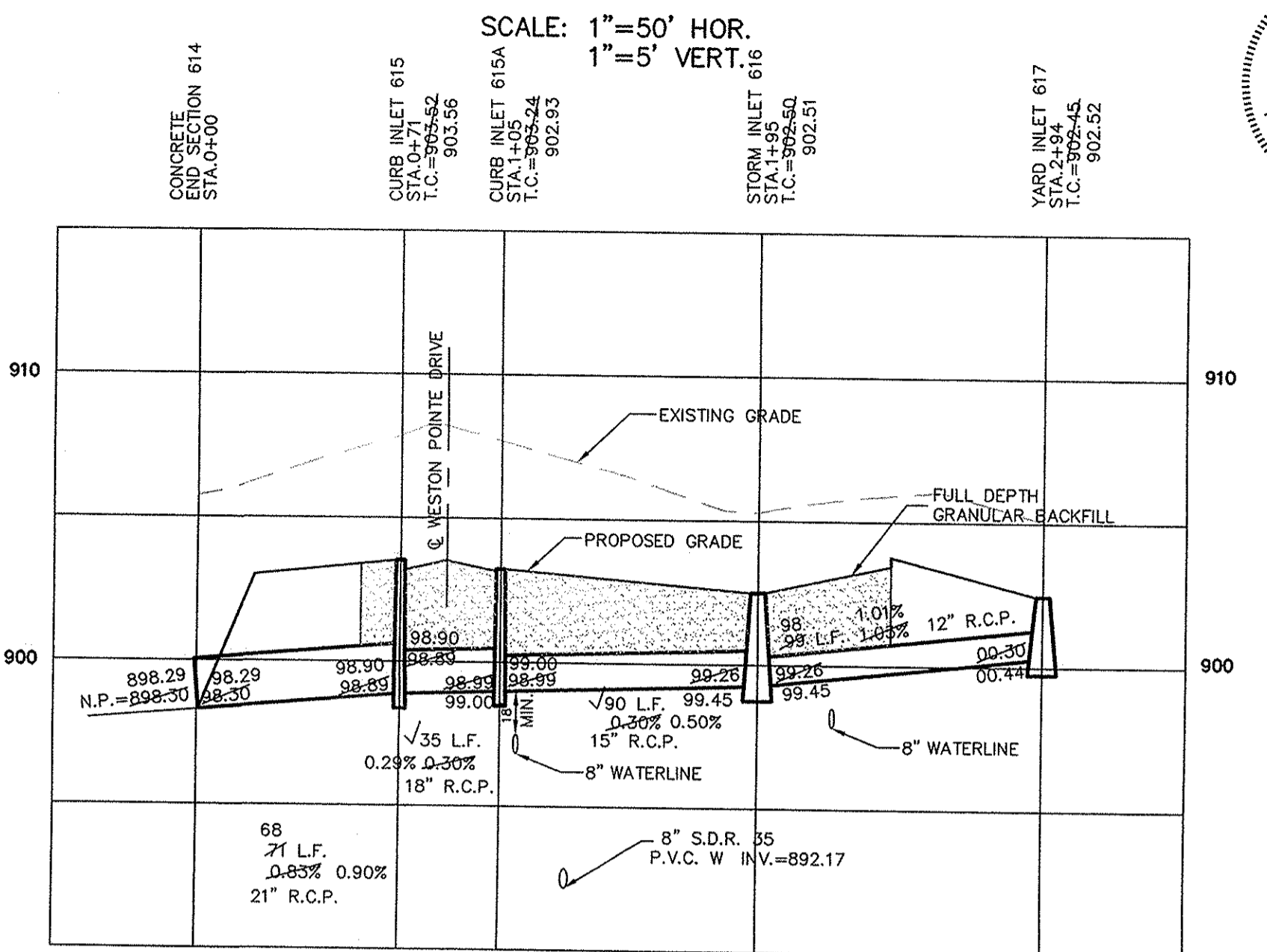
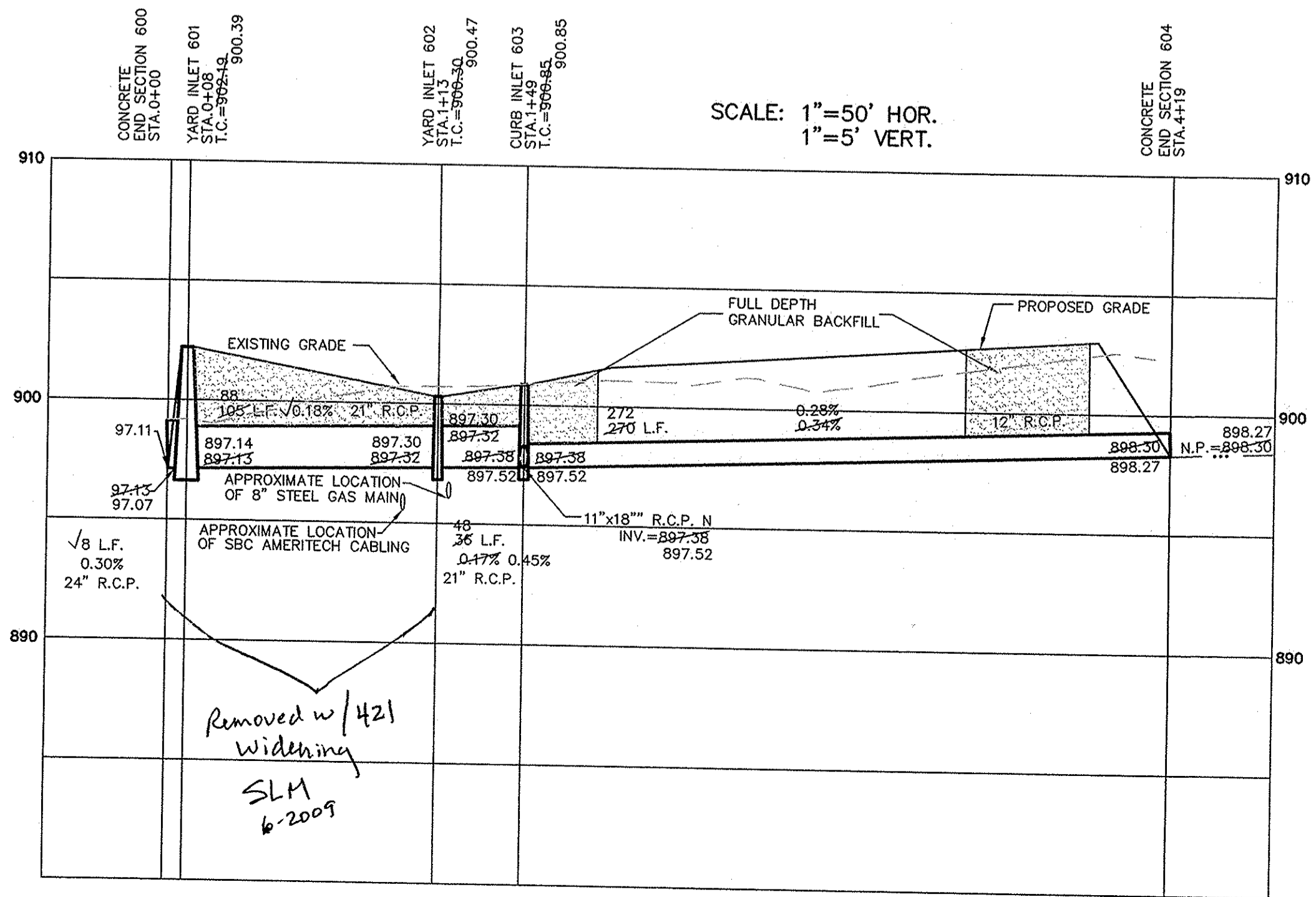
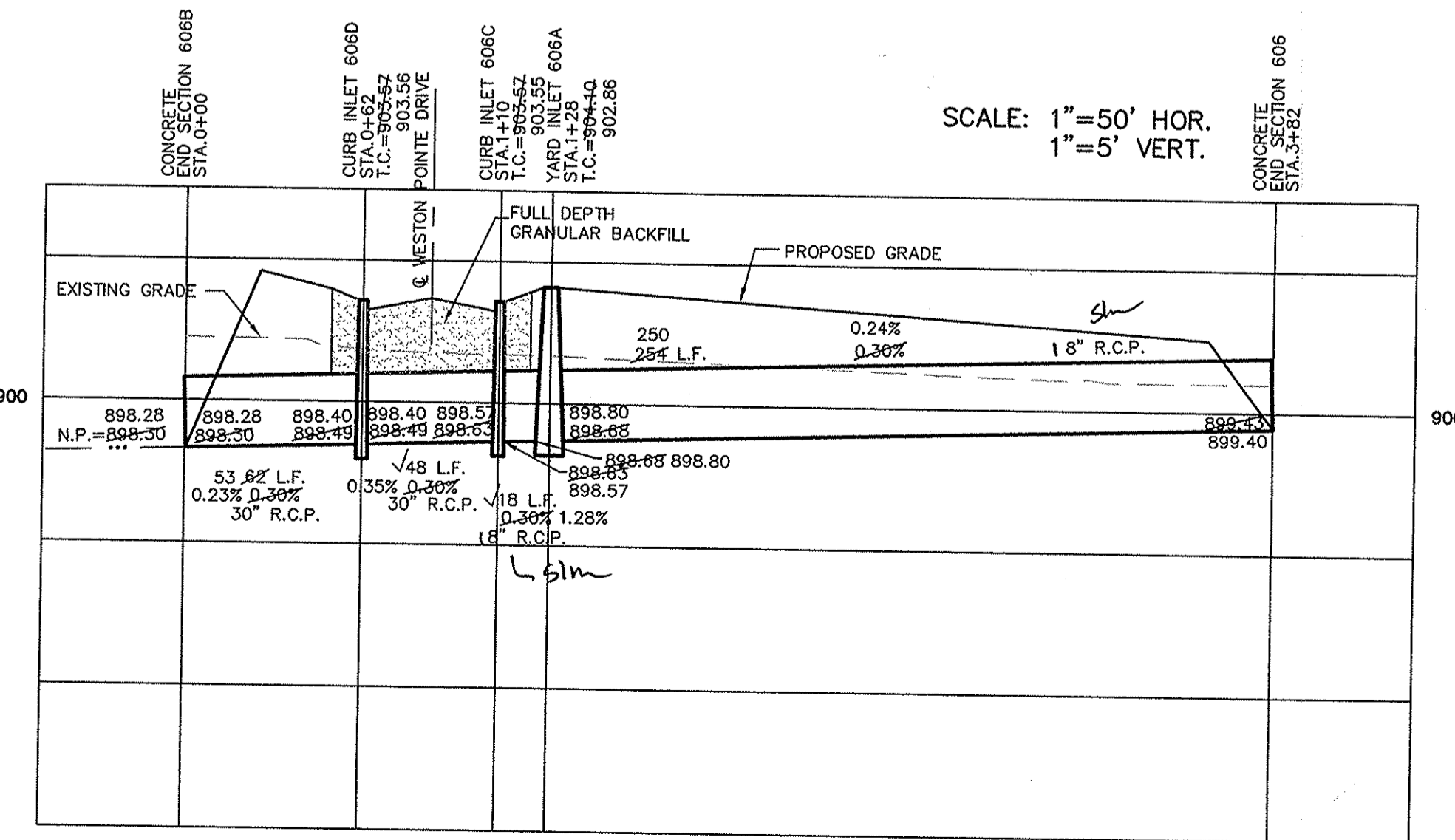


RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE 2/1/05



NOTE:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.



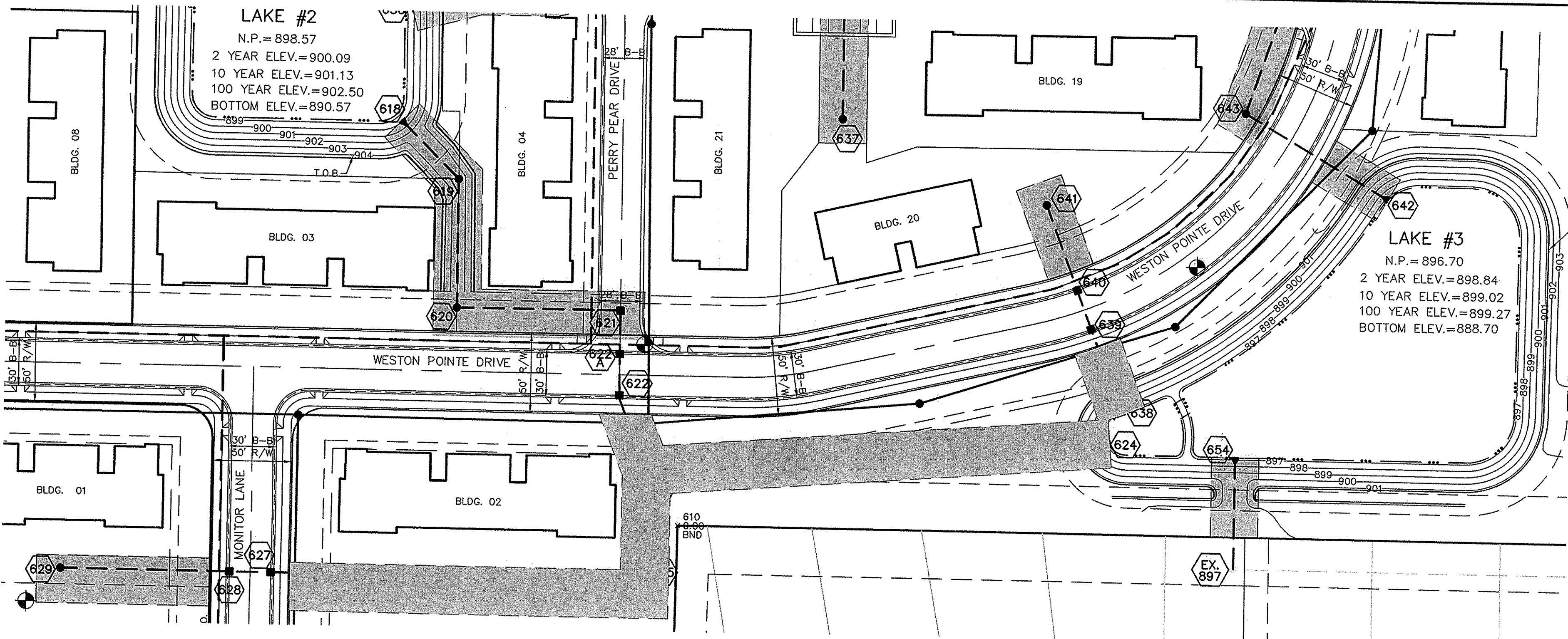
CERTIFIED: 12/12/03

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

STORM SEWER PLAN & PROFILE
 THE TOWNSE AT
 WESTON POINTE SECTION ONE
 CARMEL, INDIANA

SHEET NO. C600

| NO. | DATE | BY | REVISIONS |
|-----|----------|-----|-----------------------------|
| 1 | 12/12/03 | AAA | AS BUILT |
| 2 | 12/12/03 | BKR | REVISED PER AGENCY COMMENTS |
| 3 | 12/12/03 | SLM | REVISED PER AGENCY COMMENTS |
| 4 | 12/12/03 | SLM | REVISED PER AGENCY COMMENTS |

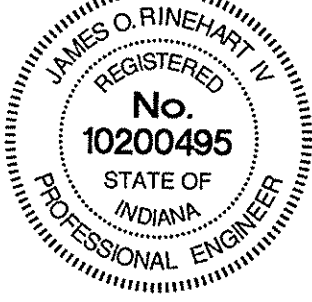


RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017
 DATE: 2/1/05

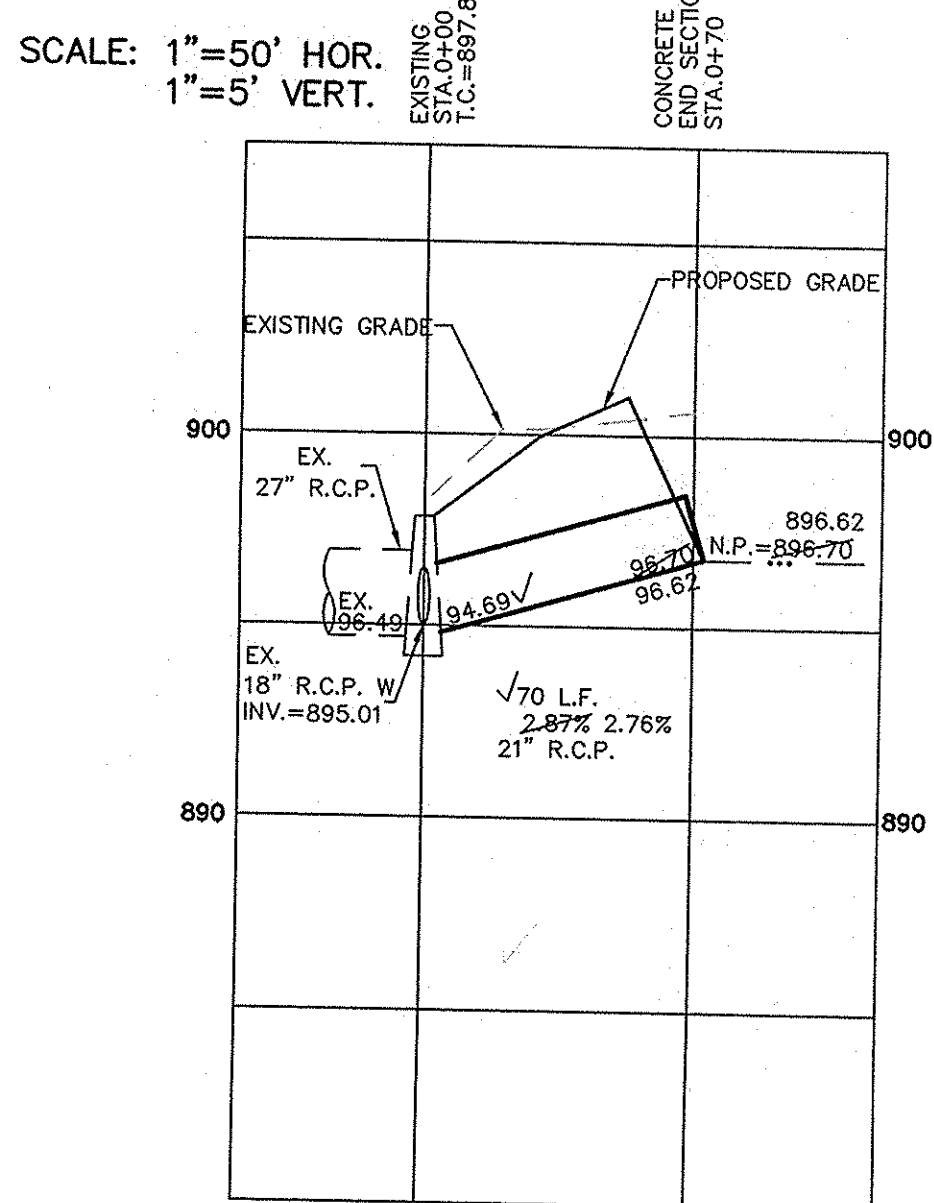
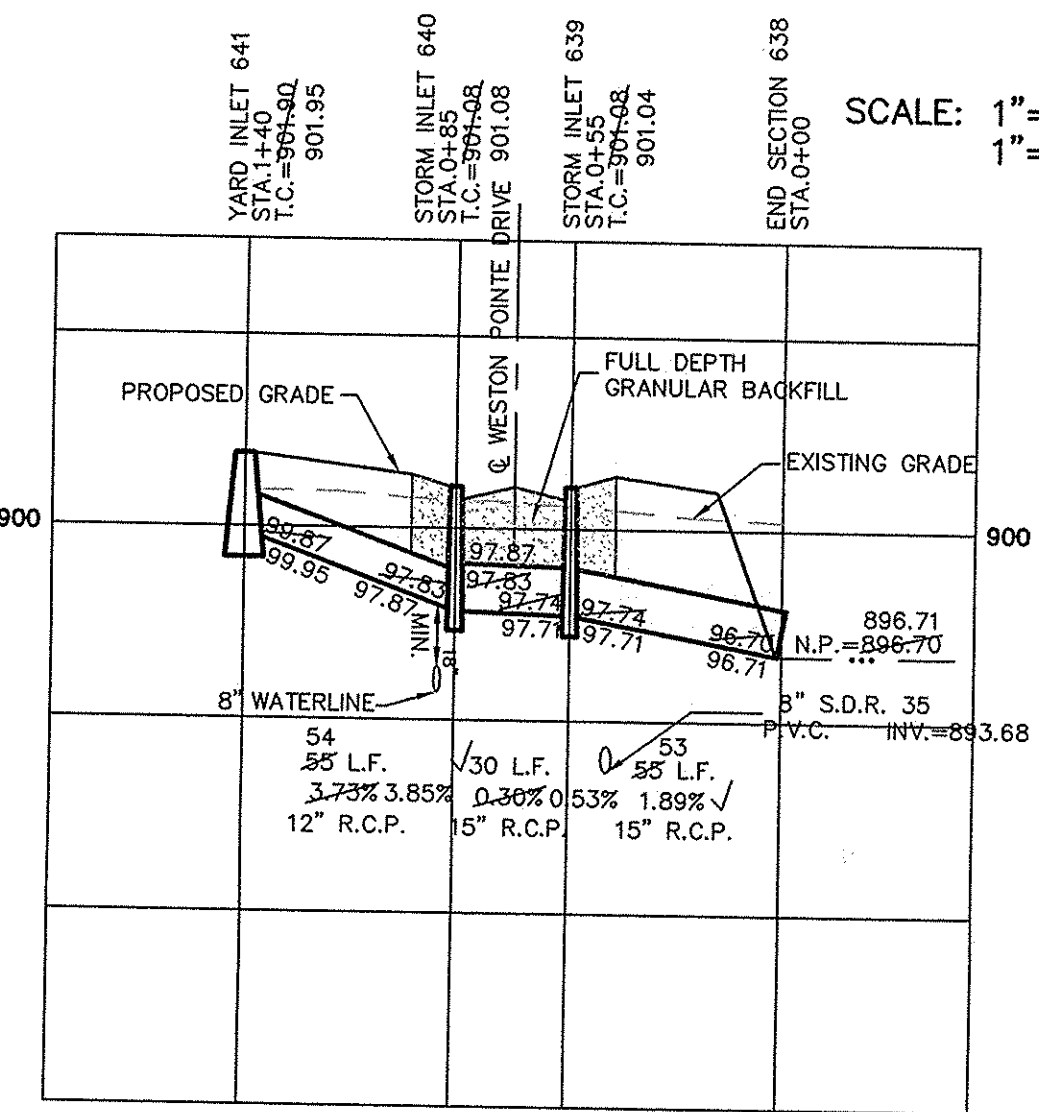
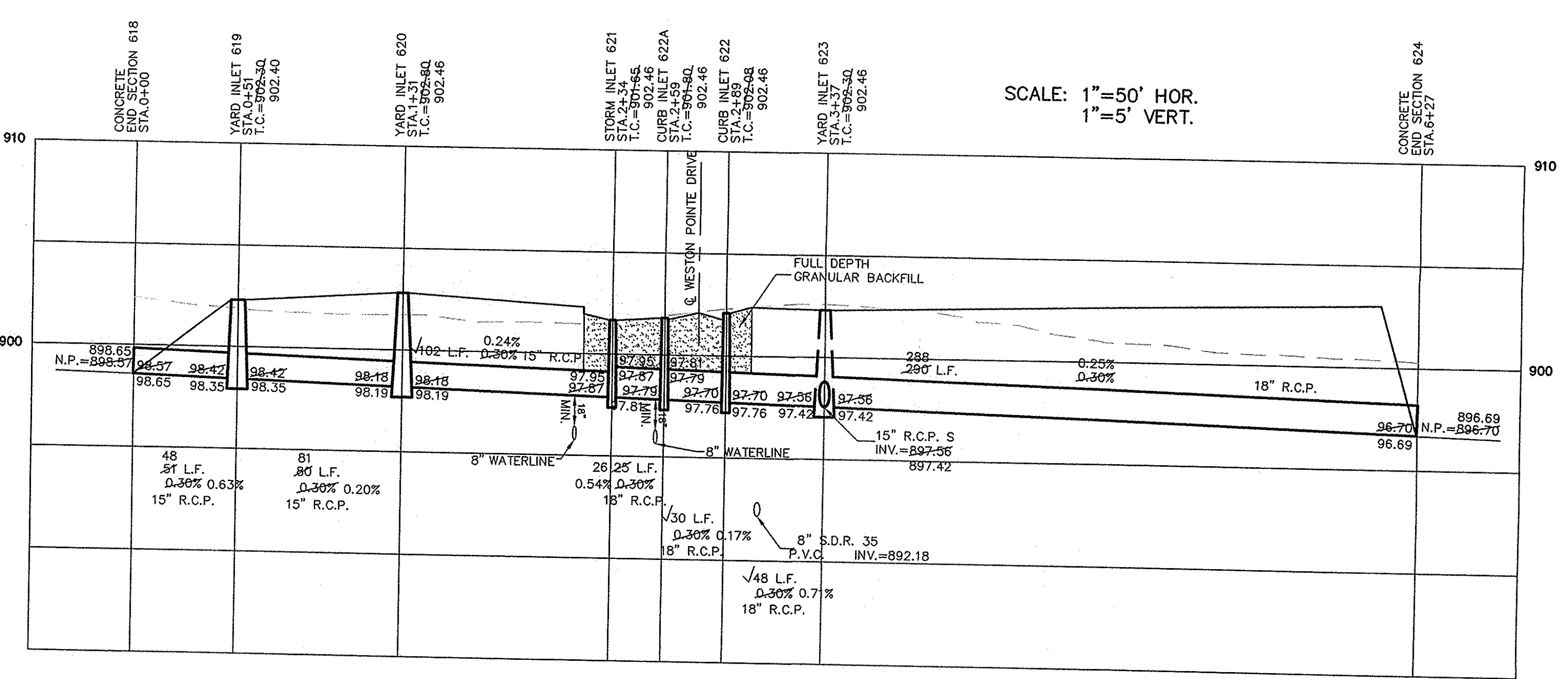
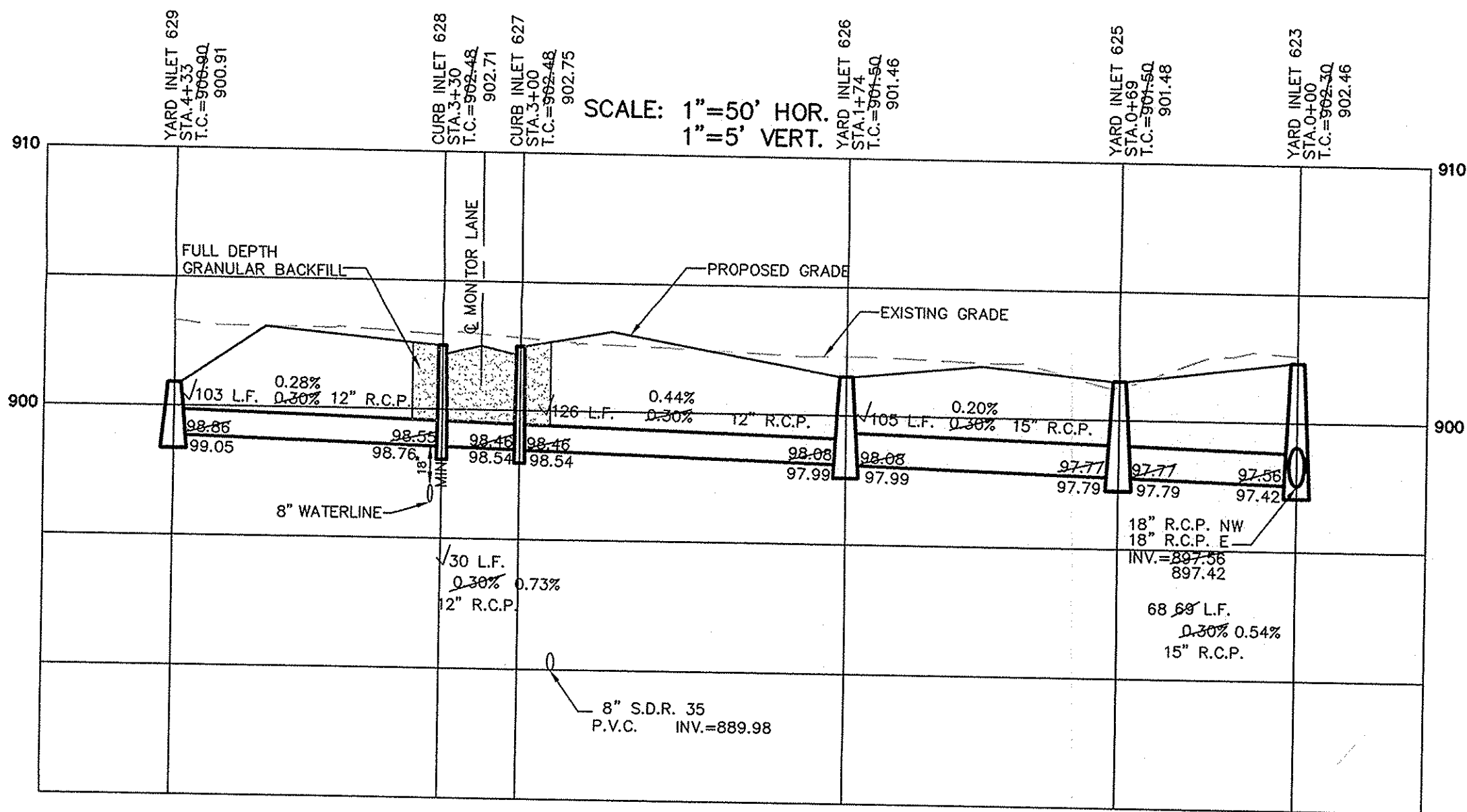


SCALE: 1" = 50'



NOTE:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO
 VERIFY THE LOCATION OF ALL EXISTING UTILITIES.

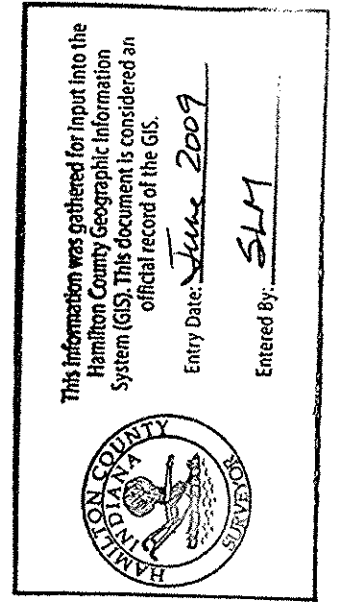
NOTE:
 ALL GRANULAR BACKFILL WITHIN THE DEDICATED
 R/W MUST BE MECHANICALLY COMPACTED.



| PIPE SIZE | STRUCTURES LESS THAN 48" FROM T/C TO INVERT | STRUCTURES GREATER THAN 48" FROM T/C TO INVERT | ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN | STEPS REQUIRED | CURB CASTING *R-3501 N | CASTING *3501 TL & TR |
|---------------|---|--|--|----------------|------------------------|-----------------------|
| 12" to 18" | 24"x24" | | DESIGN APPROVAL | No | Yes | Yes |
| 12" to 21" | 30"x30" | | DESIGN APPROVAL | No | Yes | Yes |
| 18" to 21" | | MH/BOX | DESIGN APPROVAL | Yes | Yes | Yes |
| 21" to 27" | 24"x36" | | DESIGN APPROVAL | No | Yes | Yes |
| 12" to 24" | 36"x36" | | DESIGN APPROVAL | No | No | Yes |
| 24" OR LARGER | DESIGN APPROVAL | | DESIGN APPROVAL | No | No | Yes |
| 24" OR LARGER | | MH/BOX | DESIGN APPROVAL | Yes** | Yes | Yes |

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX
 ** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

SPECIAL NOTE:
 STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A MH OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.
 SPECIAL NOTE:
 STRUCTURES SHALL BE DESIGNED FOR MAXIMUM FLOW IN PIPES
 SPECIAL NOTE:
 COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.



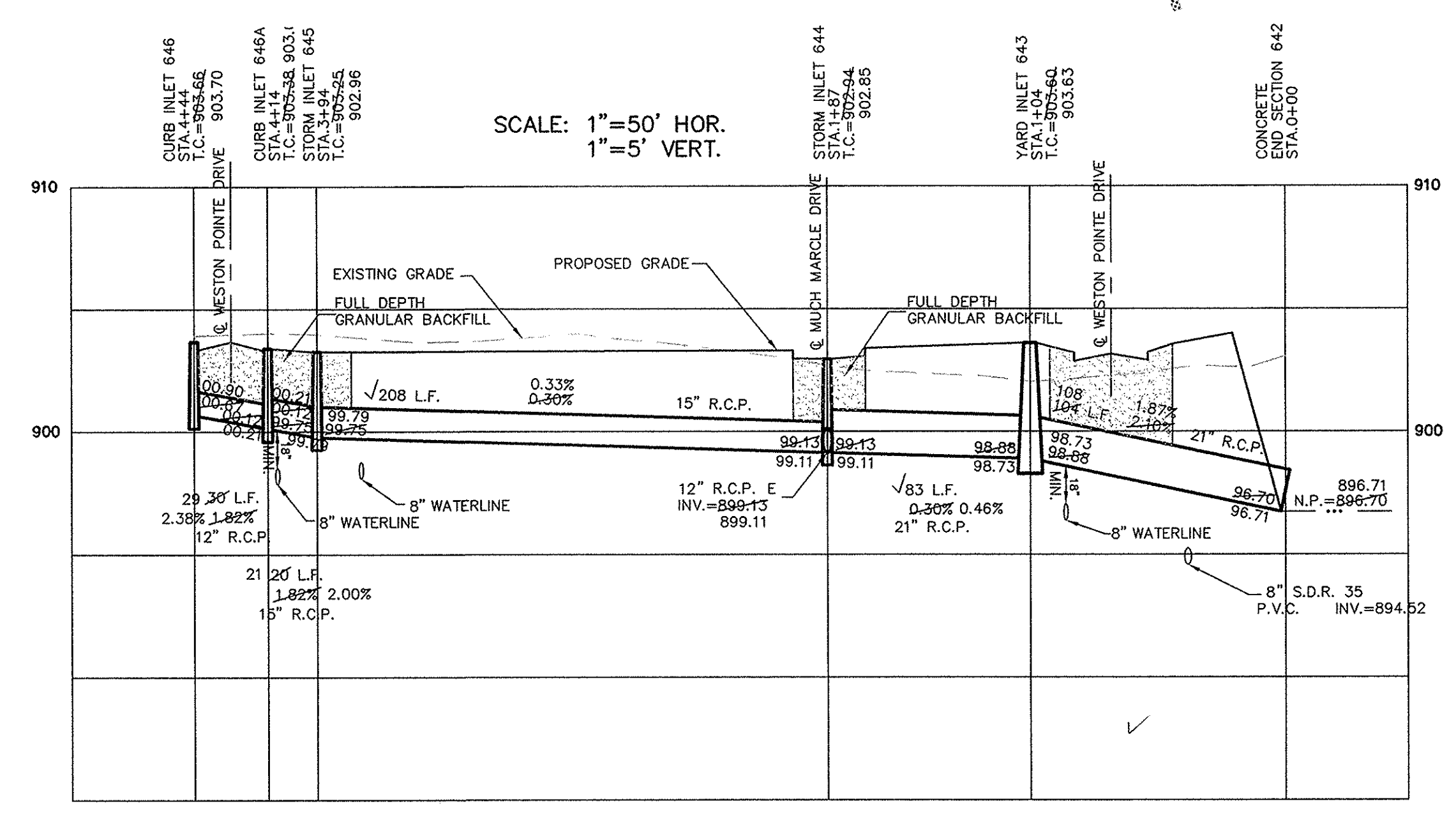
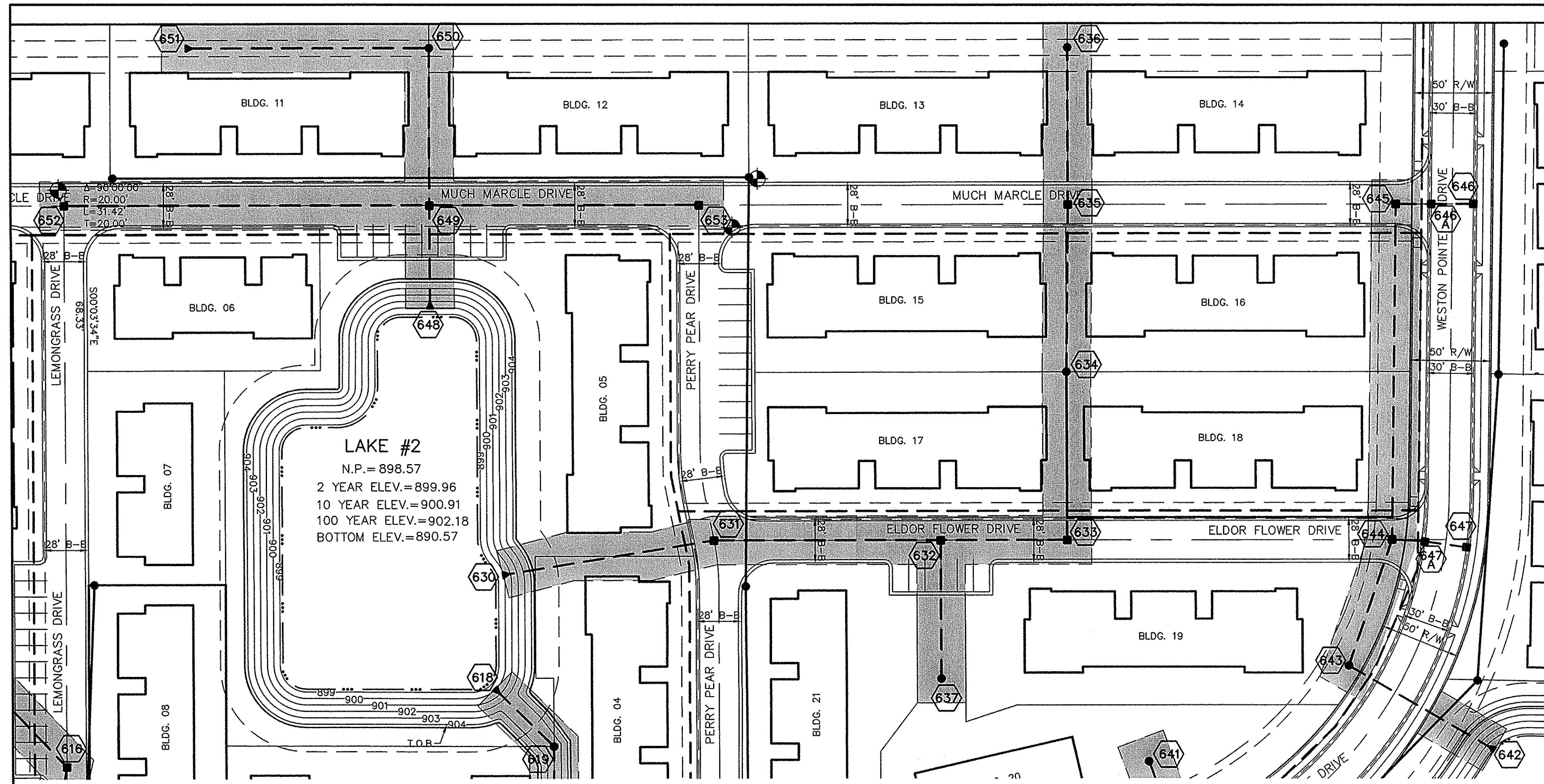
CONSULTING ENGINEERS - LAND SURVEYORS
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
 INDIANAPOLIS INDIANA

STORM SEWER PLAN & PROFILE
 THE TOWNSE AT
 WESTON POINTE SECTION ONE
 CARMEL INDIANA

DATE: 12/12/03
 CERTIFIED: [Signature]
 BY: [Signature]

| REV. BY | DATE | MARK | REVISIONS |
|---------|----------|------|-----------------------------|
| AAA | 2/1/05 | | AS-BUILT |
| BBB | 03/09/04 | | REVISED PER AGENCY COMMENTS |
| AAA | 02/25/04 | | REVISED PER AGENCY COMMENTS |
| AAA | 12/12/03 | | REVISED PER AGENCY COMMENTS |

SHEET NO.
C601

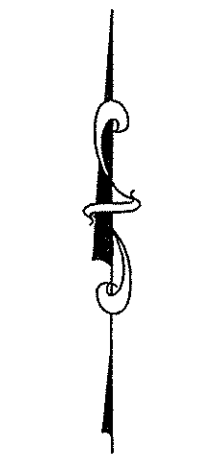
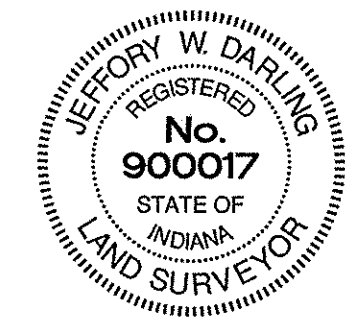


NOTE:
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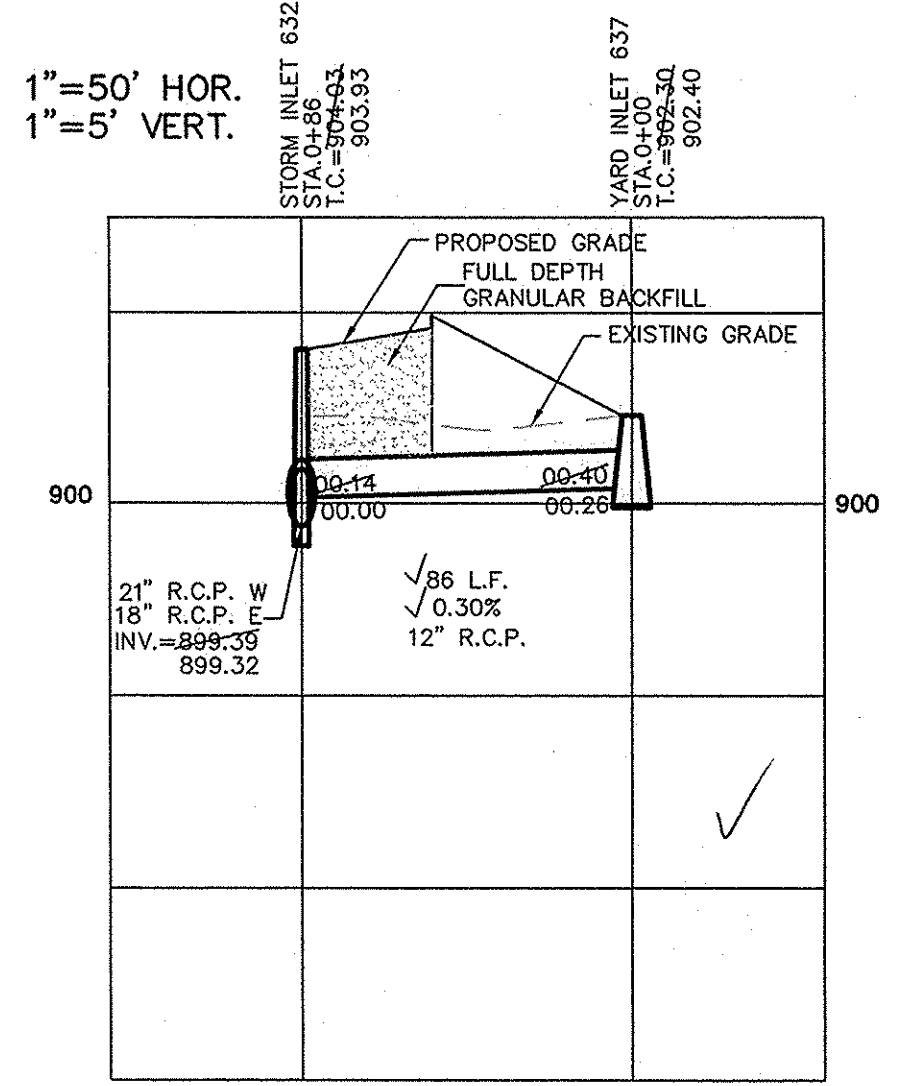
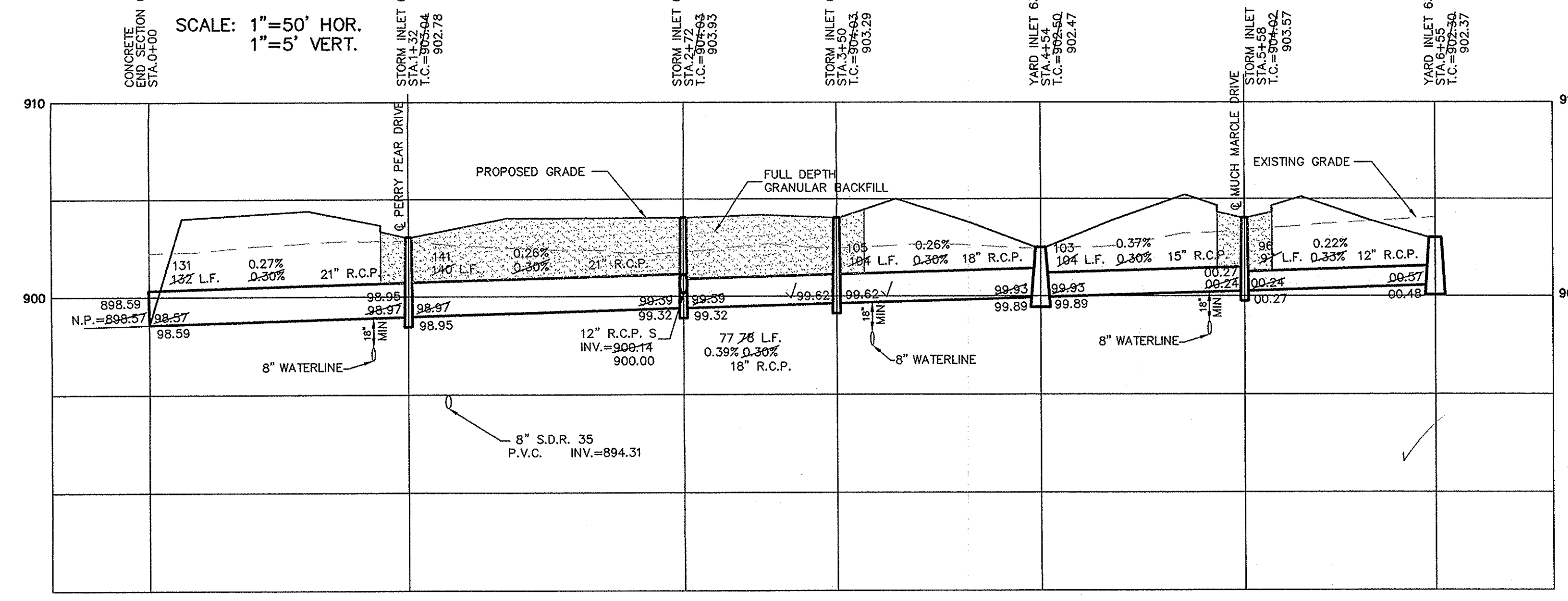


RECORD DRAWING

Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017
DATE: 2/1/05

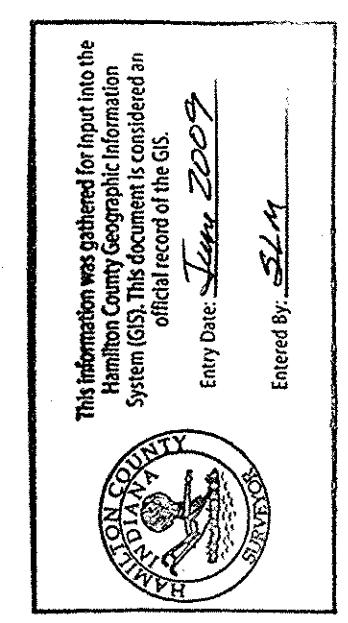
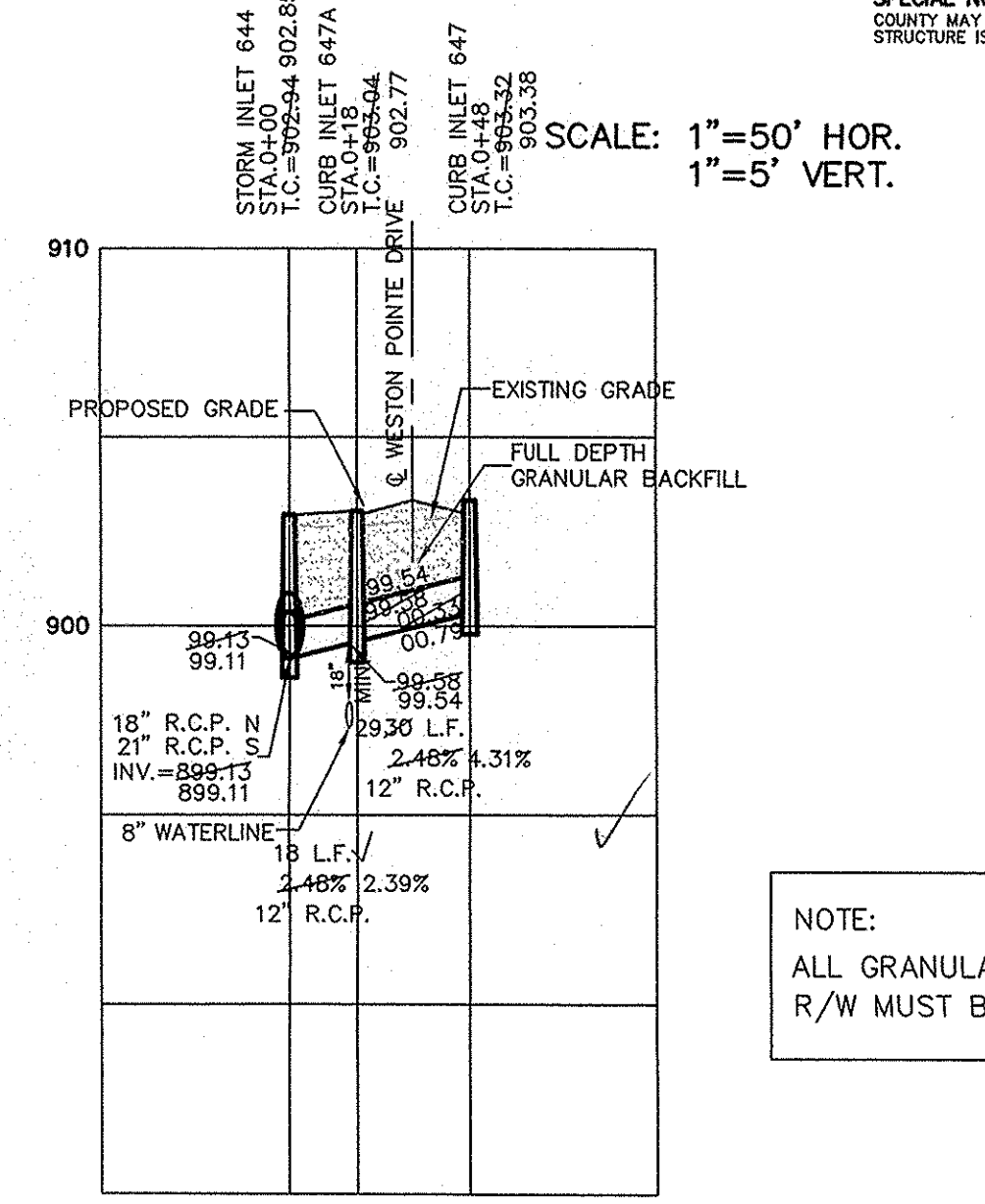
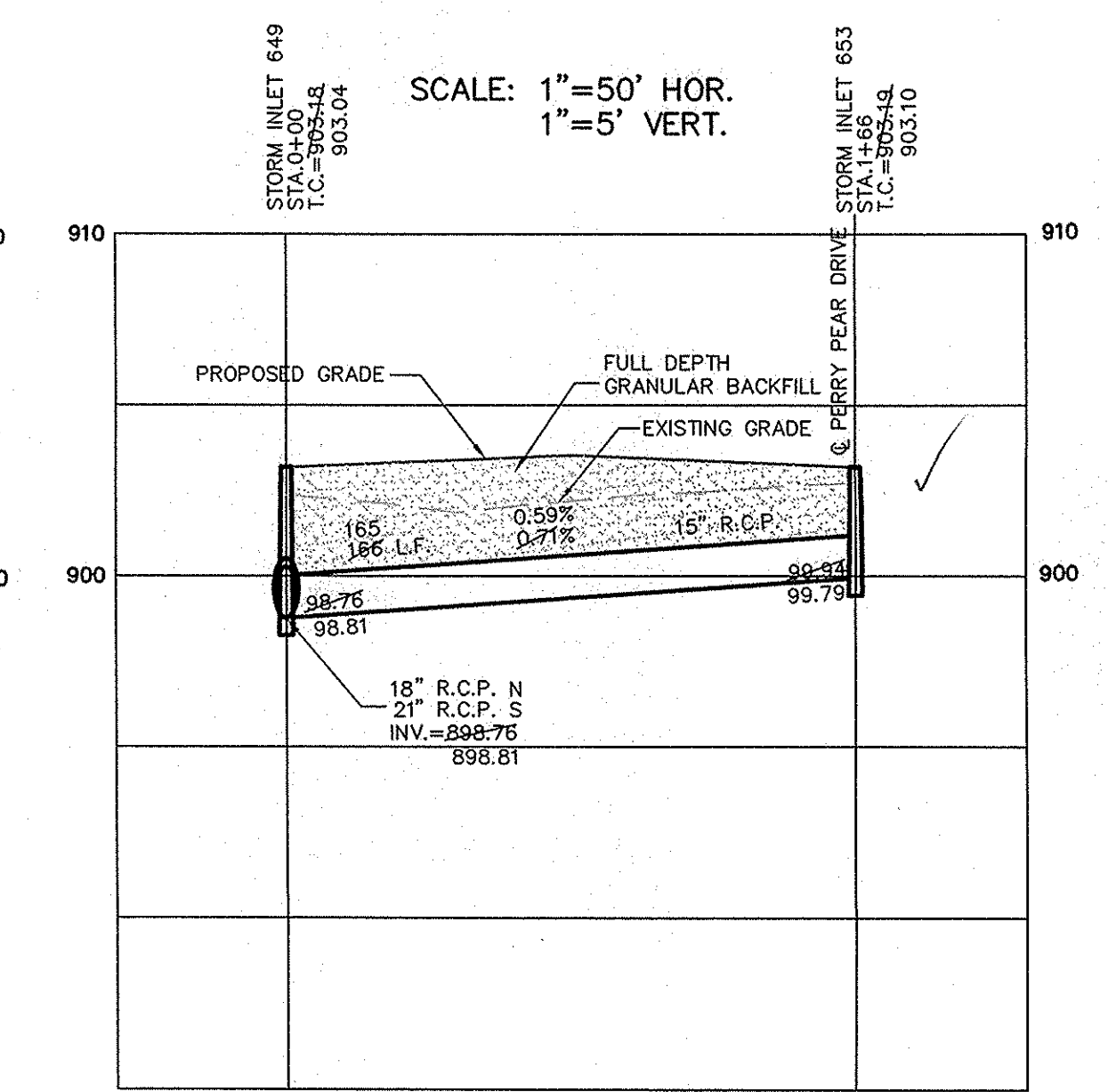
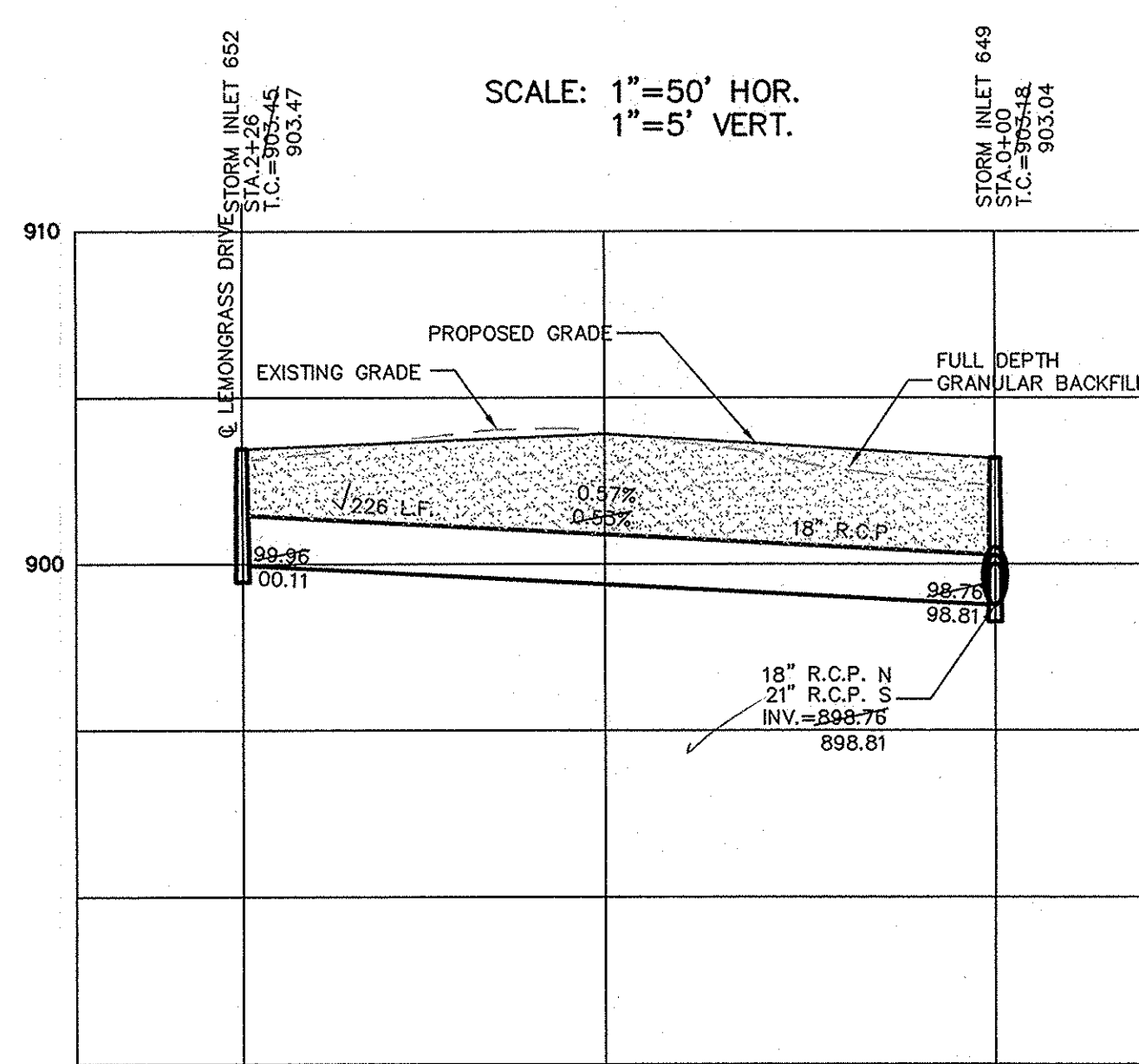
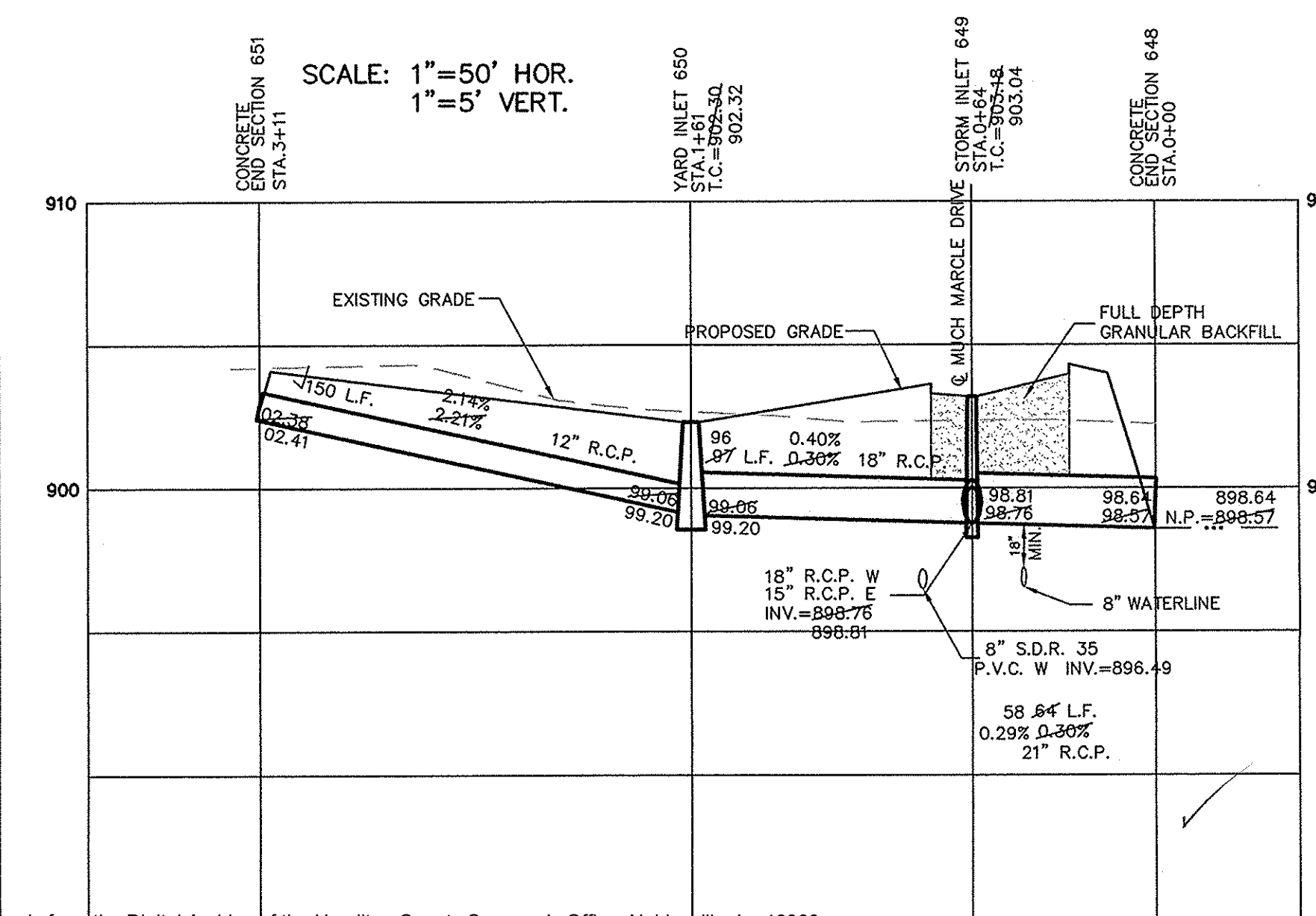


SCALE: 1" = 50'



| CURB INLET TABLE | | | | | | |
|------------------|---|--|--|----------------|------------------------|-----------------------|
| PIPE SIZE | STRUCTURES LESS THAN 48" FROM T/C TO INVERT | STRUCTURES GREATER THAN 48" FROM T/C TO INVERT | ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN | STEPS REQUIRED | CURB CASTING *R-3501 N | CASTING *3501 TL & TR |
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| 24" OR LARGER | DESIGN APPROVAL | | DESIGN APPROVAL | No | No | Yes |
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NOTE:
ALL GRANULAR BACKFILL WITHIN THE DEDICATED
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CERTIFIED: 12/12/03

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

STORM SEWER PLAN & PROFILE
THE TOWNSE AT
WESTON POINTE SECTION ONE
CARMEL INDIANA

SHEET NO.
C602

JOB NO. 37963

| | | | |
|-----------|----------|------|----------|
| DATE | 12/12/03 | BY | AAA |
| SCALE | 1"=50' | DATE | 12/12/03 |
| REVISIONS | | DATE | |
| MARK | | DATE | |
| REVISIONS | | DATE | |
| BY | | DATE | |