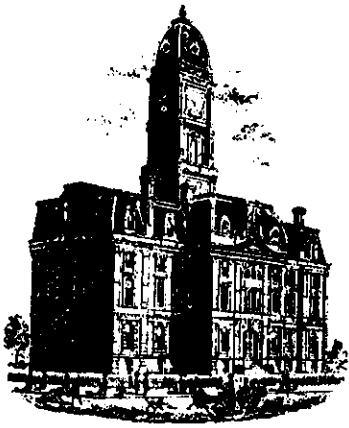


**Drain:** JOHN OSBORN DRAIN **Drain #:** 162  
**Improvement/Arm:** WALNUT CREEK WOODS - SECTION 1  
**Operator:** JOH **Date:** 6-1-04  
**Drain Classification:** Urban/Rural **Year Installed:** 1987

### GIS Drain Input Checklist

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





SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

May 6, 1996

To: Hamilton County Drainage Board

Re: John Osborn Drain  
Walnut Creek Woods Arm

Attached are plans, and other information for Walnut Creek Woods Section 1. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable. Asbuilts could not be obtained, however, the facilities were thoroughly inspected and built according to plan.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated January 7, 1988. The changes are as follows:

The corrected total of 12" RCP is 1842' feet.

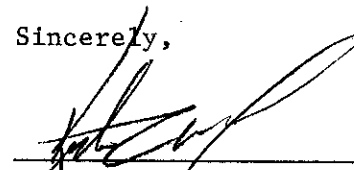
The length of the drain due to the changes described above is now 4687 feet.

The non-enforcement was approved by the Board at its meeting on July 24, 1989.

The bond or letter of credit from Merchants National Bank & Trust Company number 43025-for subsurface drains, 43026-for storm sewers & 43027-for monuments & markers, dated October 9, 1987, in the amount of \$3,000, \$72,000, \$3,000 for release in a letter to the Commissioners dated October 31, 1989.

I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,

  
Kenton C. Ward  
Hamilton County Surveyor

KCW/ndw



**MERCHANTS NATIONAL BANK  
& TRUST COMPANY**

INTERNATIONAL DIVISION

One Merchants Plaza, Suite 770 South  
Indianapolis, Indiana 46255

STANDBY LETTER OF CREDIT

TELEX 27-411  
TELEPHONE (317) 267-7751

S.W.I.F.T. ADDRESS — MNBIUS34  
CABLE ADDRESS — FRENZEL

Irrevocable Letter of Credit No.: 43026

Date: October 9, 1987

**BENEFICIARY**

BOARD OF COMMISSIONERS OF HAMILTON  
COUNTY  
Third Floor Courthouse  
Noblesville, IN 46060

**FOR ACCOUNT OF**

WALNUT CREEK DEVELOPMENT CORPORATION  
3605 Brumley Way  
Carmel, IN 46032

We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for a sum or sums not exceeding an aggregate amount of US\$ 72,100.00 Seventy Two Thousand One Hundred and 00/100 US Dollars

Funds are available by your draft(s) at sight drawn on Merchants National Bank & Trust Company of Indianapolis, Indiana.

Drafts are to be accompanied by:

1. The original of this Letter of Credit No. 43026.
2. Beneficiary's signed statement stating that "Storm sewers Walnut Creek Woods Subdivision, City of Carmel, State of Indiana, have not been installed as required."

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause: "Drawn under Merchants National Bank & Trust Company of Indianapolis, Indiana Letter of Credit No. (as indicated above)", and must be drawn and presented on or before October 9, 1988.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

Except as otherwise expressly stated herein, this credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision), International Chamber of Commerce, Publication No. 400.

Very truly yours,

**RELEASE OF MAINTENANCE/PERFORMANCE BOND  
RELEASE OF LETTER OF CREDIT**

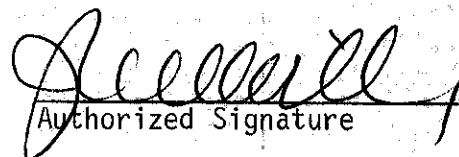
**HAMILTON COUNTY BOARD OF COMMISSIONERS**

BY: \_\_\_\_\_

BY: \_\_\_\_\_

BY: \_\_\_\_\_

DATED: \_\_\_\_\_

  
Authorized Signature

Letter of Credit Specialist  
Title



**MERCHANTS NATIONAL BANK  
& TRUST COMPANY**  
INTERNATIONAL DIVISION

One Merchants Plaza, Suite 770 South  
Indianapolis, Indiana 46255  
STANDBY LETTER OF CREDIT

TELEX 27-411  
TELEPHONE (317) 267-7751

S.W.I.F.T. ADDRESS — MNBIUS34  
CABLE ADDRESS — FRENZEL

Irrevocable Letter of Credit No.: 43025

Date: October 9, 1987

**BENEFICIARY**

BOARD OF COMMISSIONERS OF HAMILTON  
COUNTY  
Third Floor Courthouse  
Noblesville, IN 46060

**FOR ACCOUNT OF**

WALNUT CREEK DEVELOPMENT CORPORATION  
3605 Brumley Way  
Carmel, IN 46032

We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for a sum or sums not exceeding an aggregate amount of US\$ 3,000.00 Three Thousand and 00/100 US Dollars

Funds are available by your draft(s) at sight drawn on Merchants National Bank & Trust Company of Indianapolis, Indiana.

Drafts are to be accompanied by:

1. The original of this Letter of Credit No. 43025.
2. Beneficiary's signed statement stating that "Sub-drains in Walnut Creek Woods Subdivision, City of Carmel, State of Indiana, have not been installed as required."

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause: "Drawn under Merchants National Bank & Trust Company of Indianapolis, Indiana Letter of Credit No. (as indicated above)", and must be drawn and presented on or before October 9, 1988.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

Except as otherwise expressly stated herein, this credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision), International Chamber of Commerce, Publication No. 400.

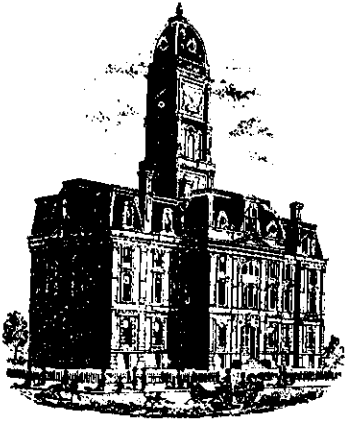
Very truly yours,



Authorized Signature

Letter of Credit Specialist

Title



SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

May 8, 1995

TO: Stan Neal  
Weihe Engineers

RE: John Osborn Drain  
Walnut Creek Woods Arm

The existing storm inlet structures at the end of Walnut Creek Drive must be replaced with two (2) new precast 48" manhole structures per our onsite meeting May 4, 1995.

The new structures are to be constructed with the road extension improvements with Kingsmill Section 2.

The new structures will be inspected along with the drainage facilities for Kingsmill Section 2.

If you have any questions please contact me at 776-8495.

Sincerely,

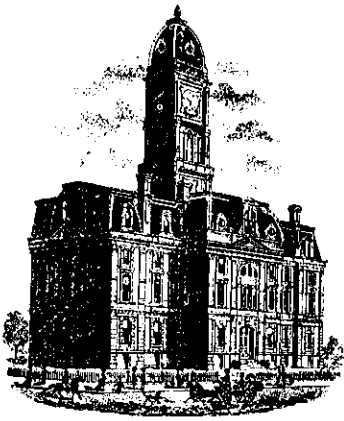
Jerry L. Liston,  
Inspector

CC: Commissioners  
Jose Kreutz  
Steve Snider (Snider Group)  
Steven Wilson (Kingsmill Corp.)

JLL/sh

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

file copy



SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor  
776-9626

942 Maple Avenue  
Noblesville, Indiana 46060 October 31, 1989

To: Hamilton County Commissioners

Re: John Osborn Drain, Walnut Creek Woods Arm

In October a final inspection of the drainage facilities for the John Osborn Drain, Walnut Creek Woods Arm was made. At that time I found the facilities to be complete and acceptable. I recommend the Board release the surety for drainage facilities for this project upon application by the developer. The surety agency concerned is Merchants National Bank & Trust Company, dated October 9, 1987, number 43025 and 43026.

Sincerely

\_\_\_\_\_  
Kenton C. Ward,  
Hamilton County Surveyor

KCW/jh

cc: WalnutCreek Dev. Corp.  
Schneider  
John Hendricks

**RELEASE OF MAINTENANCE/PERFORMANCE BOND  
RELEASE OF LETTER OF CREDIT**

**HAMILTON COUNTY BOARD OF COMMISSIONERS**

BY: \_\_\_\_\_

BY: \_\_\_\_\_

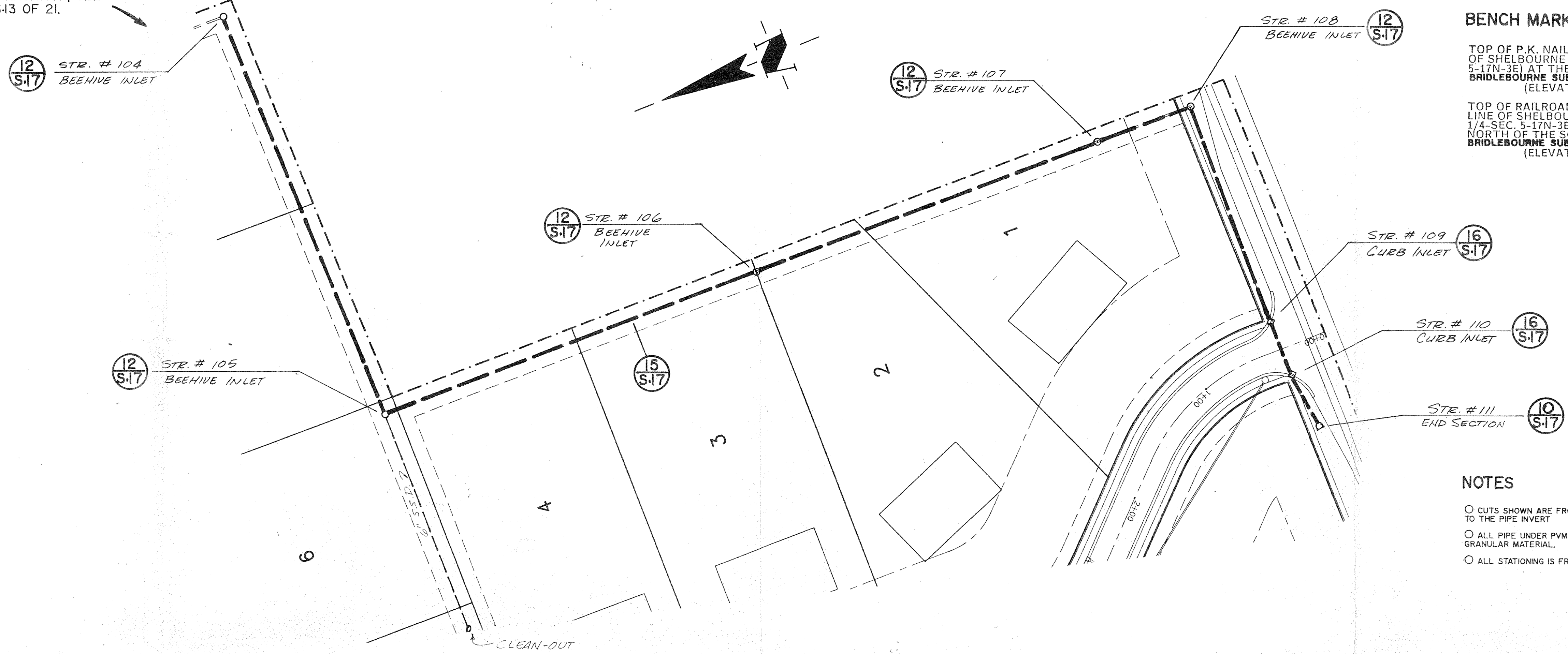
BY: \_\_\_\_\_

DATED: \_\_\_\_\_

NOV 1 1989

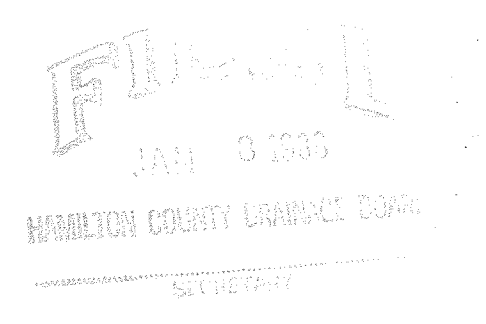
**ATTEST: \_\_\_\_\_  
HAMILTON COUNTY AUDITOR**

FOR CONTINUATION, SEE SHEET S43 OF 21.



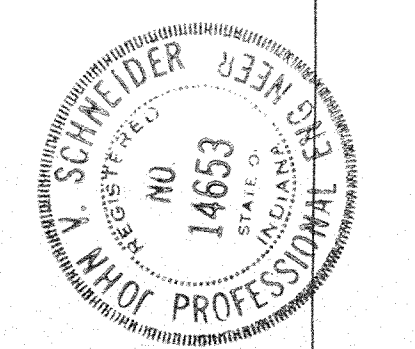
**BENCH MARK**

TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-17N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)  
TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (NW. COR. SW. 1/4-SEC. 5-17N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)



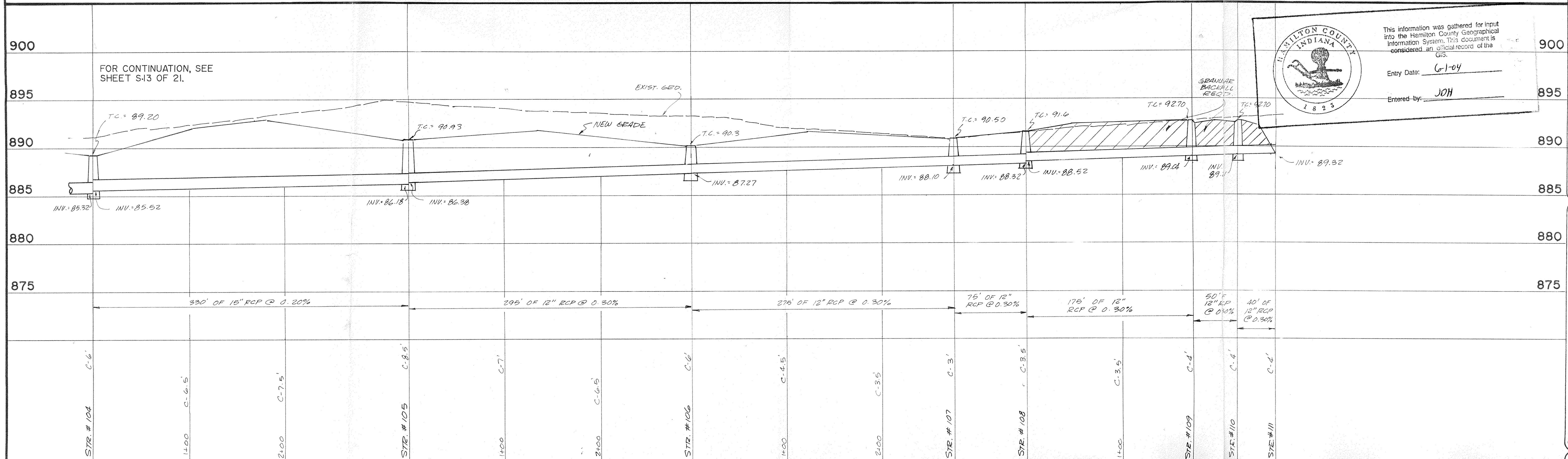
**NOTES**

- CUTS SHOWN ARE FROM EXIST. GRADE TO THE PIPE INVERT
- ALL PIPE UNDER P.V.M.T. TO BE BACKFILLED W/ GRANULAR MATERIAL.
- ALL STATIONING IS FROM NEAREST DOWNSTREAM STR.



**STORM SEWER PLAN**

SCALE: 1" = 50'



Entry Date: 6-1-04  
Entered by: JOH

**STORM SEWER PROFILE**

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

REVISIONS

NO.	DATE	CHECK NO.	BY	DATE	CHECK

DRAWN BY: JVS  
DATE: 9/3/87

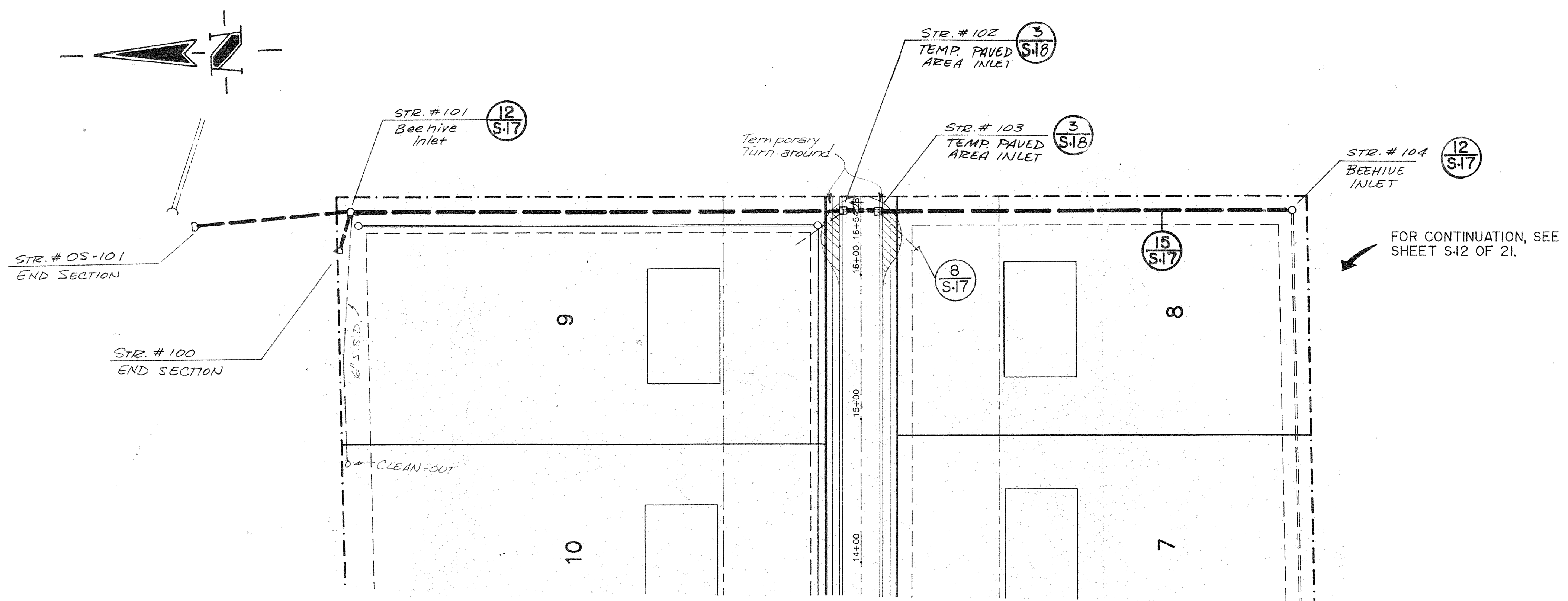
PROJECT: WALNUT CREEK WOODS  
JOB NO. 634  
PREPARED FOR: WALNUT CREEK DEVELOPMENT  
TITLE: STORM SEWER PLAN

SCHNEIDER ENGINEERING CORPORATION  
3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46276  
(317) 898-8282  
P.O. BOX 26068

certified JOHN V. SCHNEIDER SEPTEMBER 30, 1987

SHEET S12 OF 21



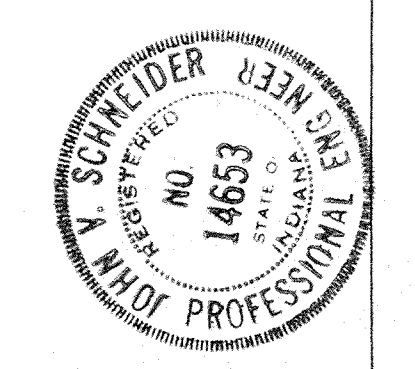
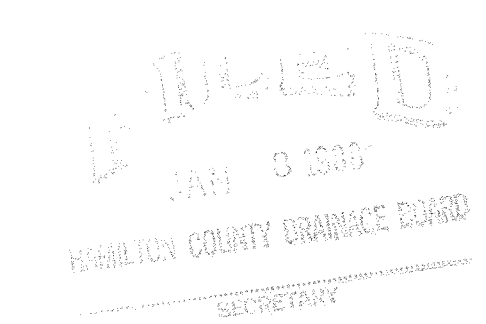


**BENCH MARK**

TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-17N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)

TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (NW. COR. SW. 1/4-SEC. 5-17N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)

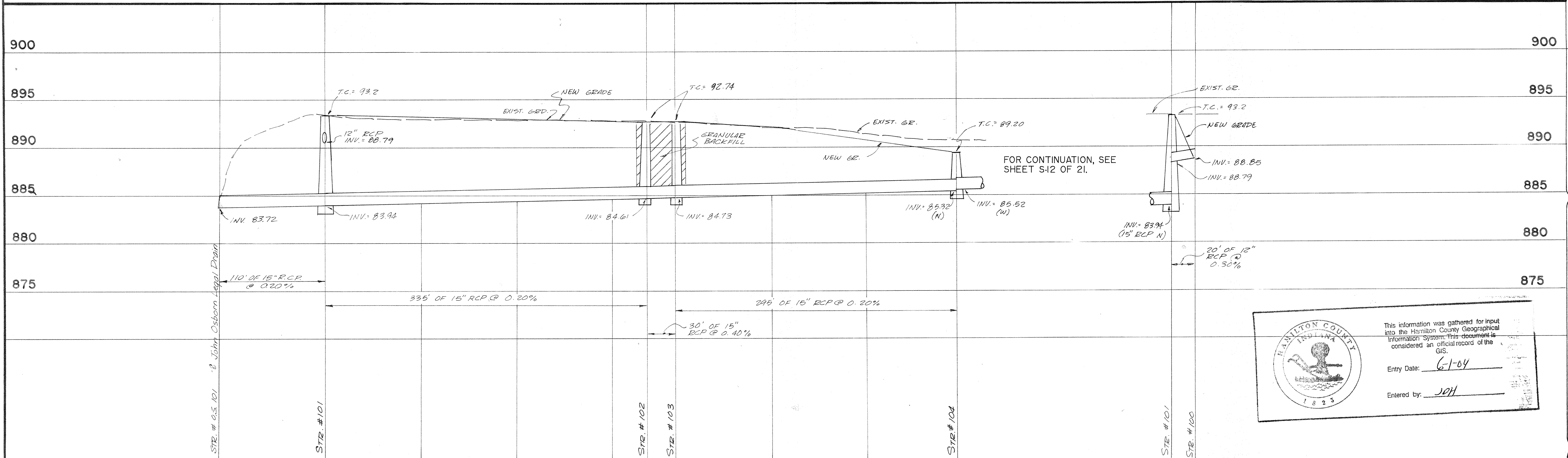
- NOTES**
- CUTS SHOWN ARE FROM EXIST. GRADE TO THE PIPE INVERT
  - ALL PIPE UNDER PVMT. TO BE BACKFILLED W/ GRANULAR MATERIAL.
  - ALL STATIONING IS FROM NEAREST DOWNSTREAM STR.



REVISIONS	DATE	CHECK NO.	BY	DATE	CHECK

**STORM SEWER PLAN**

SCALE: 1" = 50'



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

Entry Date: 6-1-04

Entered by: JPH

**STORM SEWER PROFILE**

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

PROJECT: WALNUT CREEK WOODS

PREPARED FOR: WALNUT CREEK DEVELOPMENT

TITLE: STORM SEWER PLAN

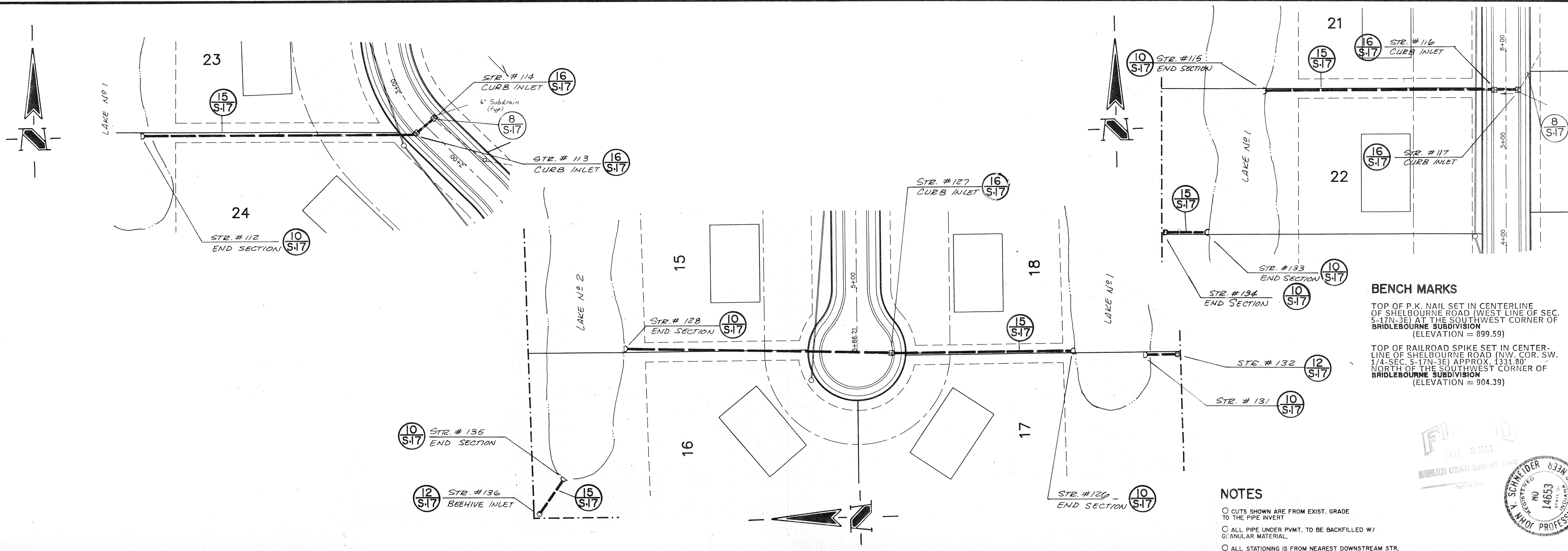
JOB NO. 634

SCALE: as noted

PREPARED BY: [Signature]

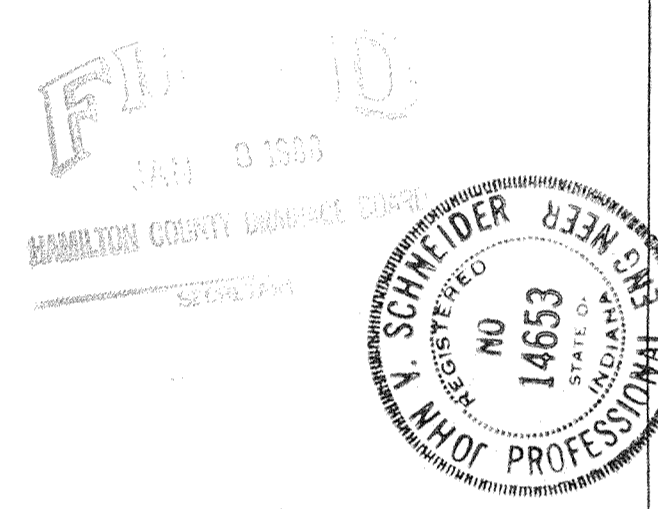
CERTIFIED: JOHN V. SCHNEIDER, SEPTEMBER 30, 1987

SCHNEIDER ENGINEERING CORPORATION  
3025 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46276  
(317) 898-8282  
P.O. BOX 70668



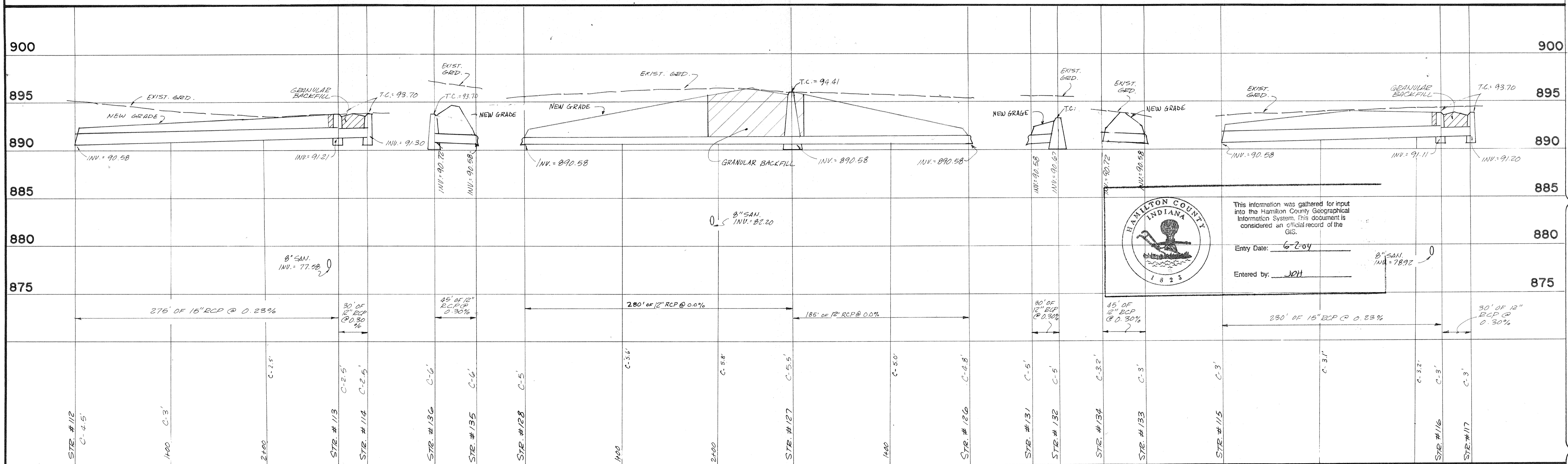
**BENCH MARKS**  
 TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-17N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)  
 TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (NW. COR. SW. 1/4-SEC. 5-17N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)

**NOTES**  
 ○ CUTS SHOWN ARE FROM EXIST. GRADE TO THE PIPE INVERT  
 ○ ALL PIPE UNDER PAVT. TO BE BACKFILLED W/ GRANULAR MATERIAL.  
 ○ ALL STATIONING IS FROM NEAREST DOWNSTREAM STR.



**STORM SEWER PLAN**

SCALE: 1" = 50'



**STORM SEWER PROFILE**

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

**REVISIONS**

NO.	DATE	CHECKED BY	DATE	CHECKED BY
1	07/24	JVS		

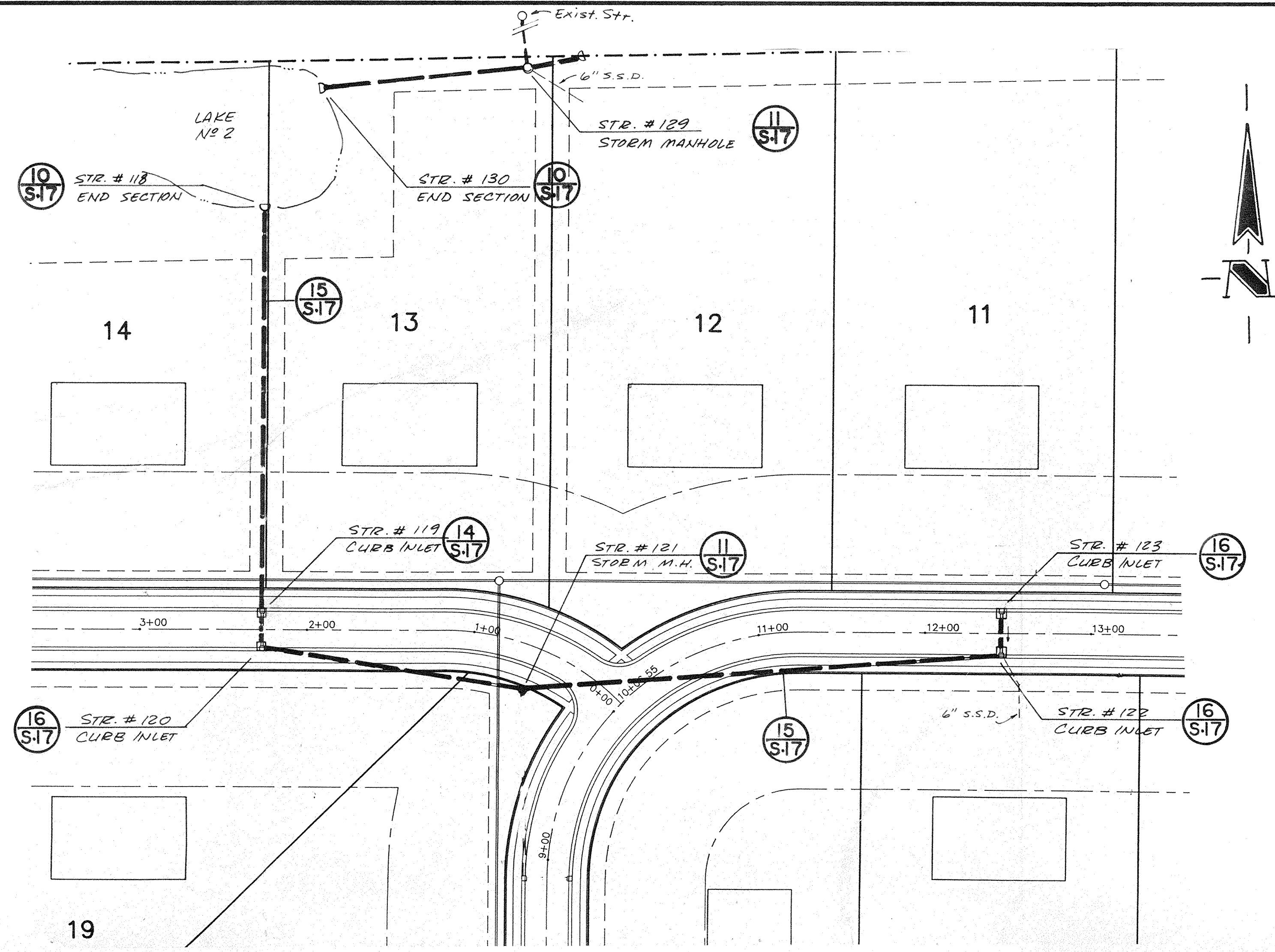
**PROJECT** WALNUT CREEK WOODS 634  
**PREPARED FOR** WALNUT CREEK DEVELOPMENT  
**TITLE** STORM SEWER PLAN

**SCALE:** AS NOTED

**SHEET** S-14  
**OF** 21

**PREPARED BY:** SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46276  
 (317) 898-8282  
 P.O. BOX 26068

**CERTIFIED:** JOHN V. SCHNEIDER, SEPTEMBER 30, 1987



**BENCH MARKS**

TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-17N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)

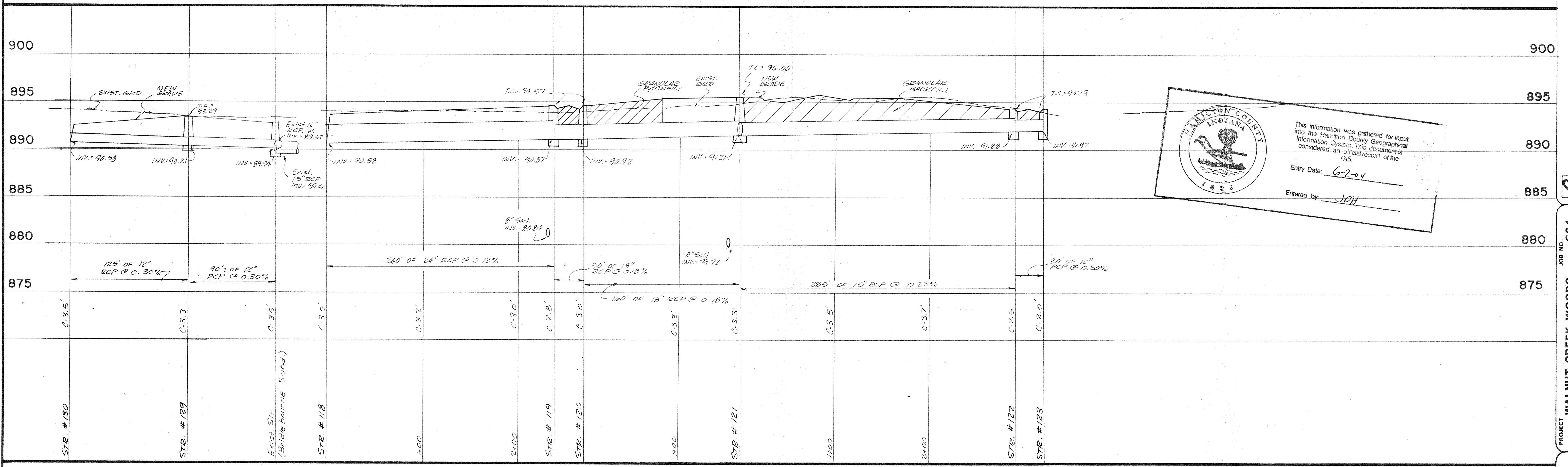
TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (NW. COR. SW. 1/4-SEC. 5-17N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)

**NOTES**

- CUTS SHOWN ARE FROM EXIST. GRADE TO THE PIPE INVERT
- ALL PIPE UNDER PVMT. TO BE BACKFILLED W/ GRANULAR MATERIAL.
- ALL STATIONING IS FROM NEAREST DOWNSTREAM STR.

**STORM SEWER PLAN**

SCALE: 1" = 50'



HAMILTON COUNTY INDIANA

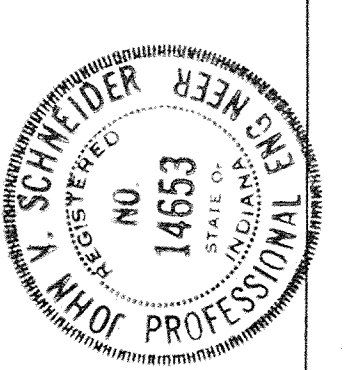
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 6-2-04

Entered by: JOH

**STORM SEWER PROFILE**

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



REVISIONS

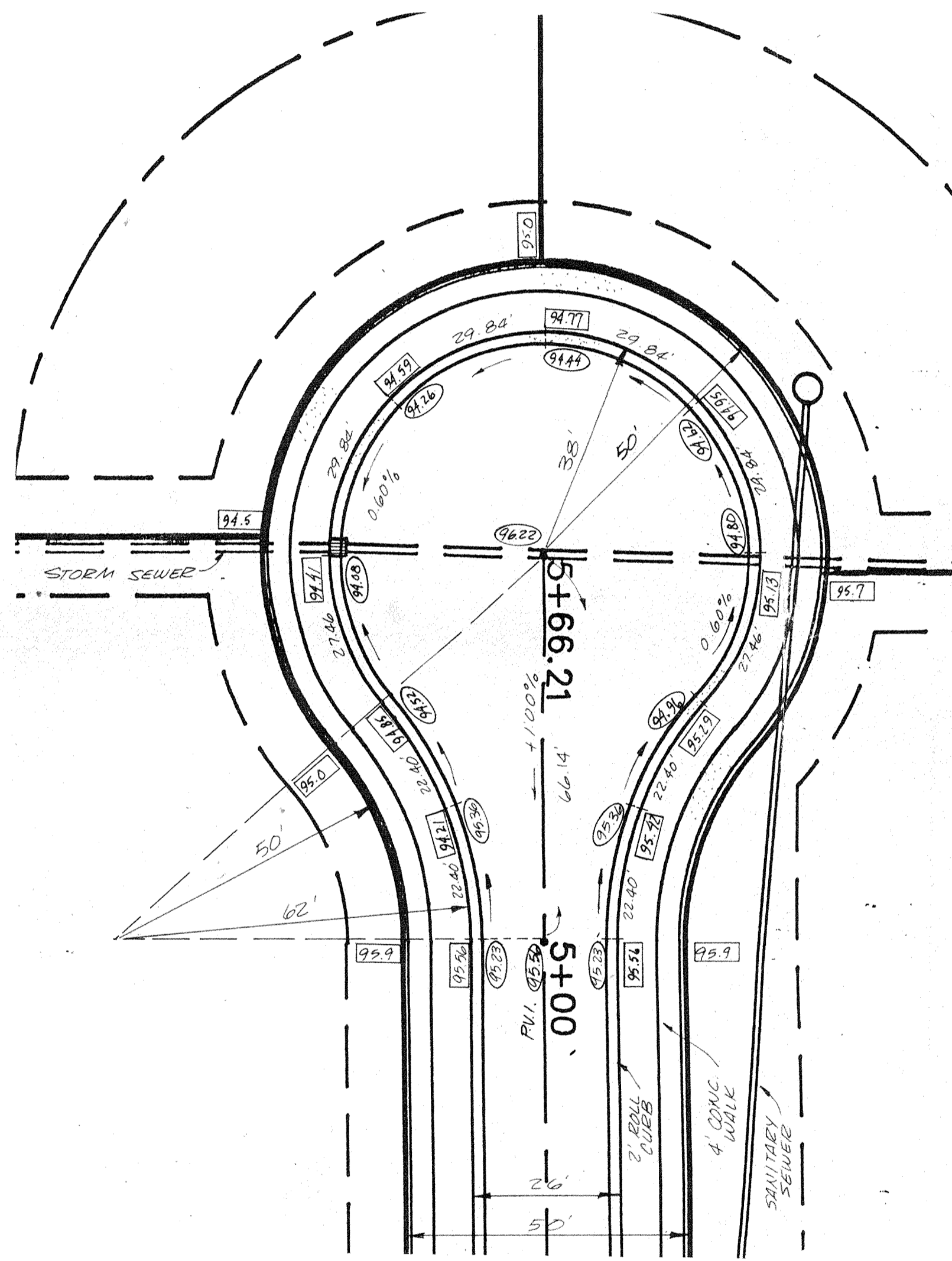
NO.	DATE	CHECK	BY
1	7/22/04		JVS

PROJECT: WALNUT CREEK WOODS 634  
 PREPARED FOR: WALNUT CREEK DEVELOPMENT  
 TITLE: STORM SEWER PLAN

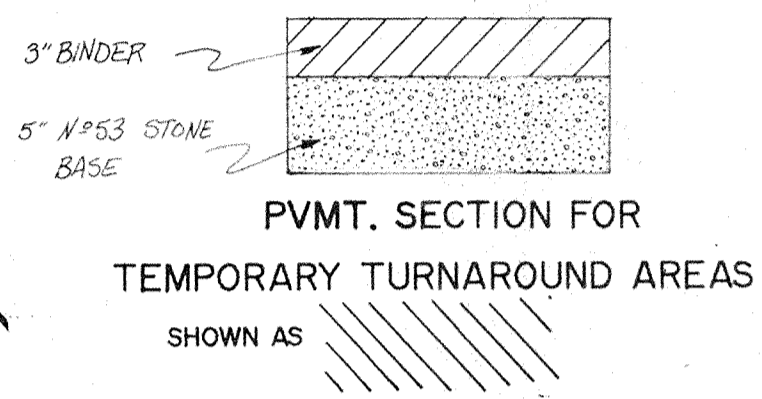
SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226  
 (317) 898-8282  
 P.O. BOX 26068

CERTIFIED JOHN V. SCHNEIDER SEPTEMBER 30, 1997

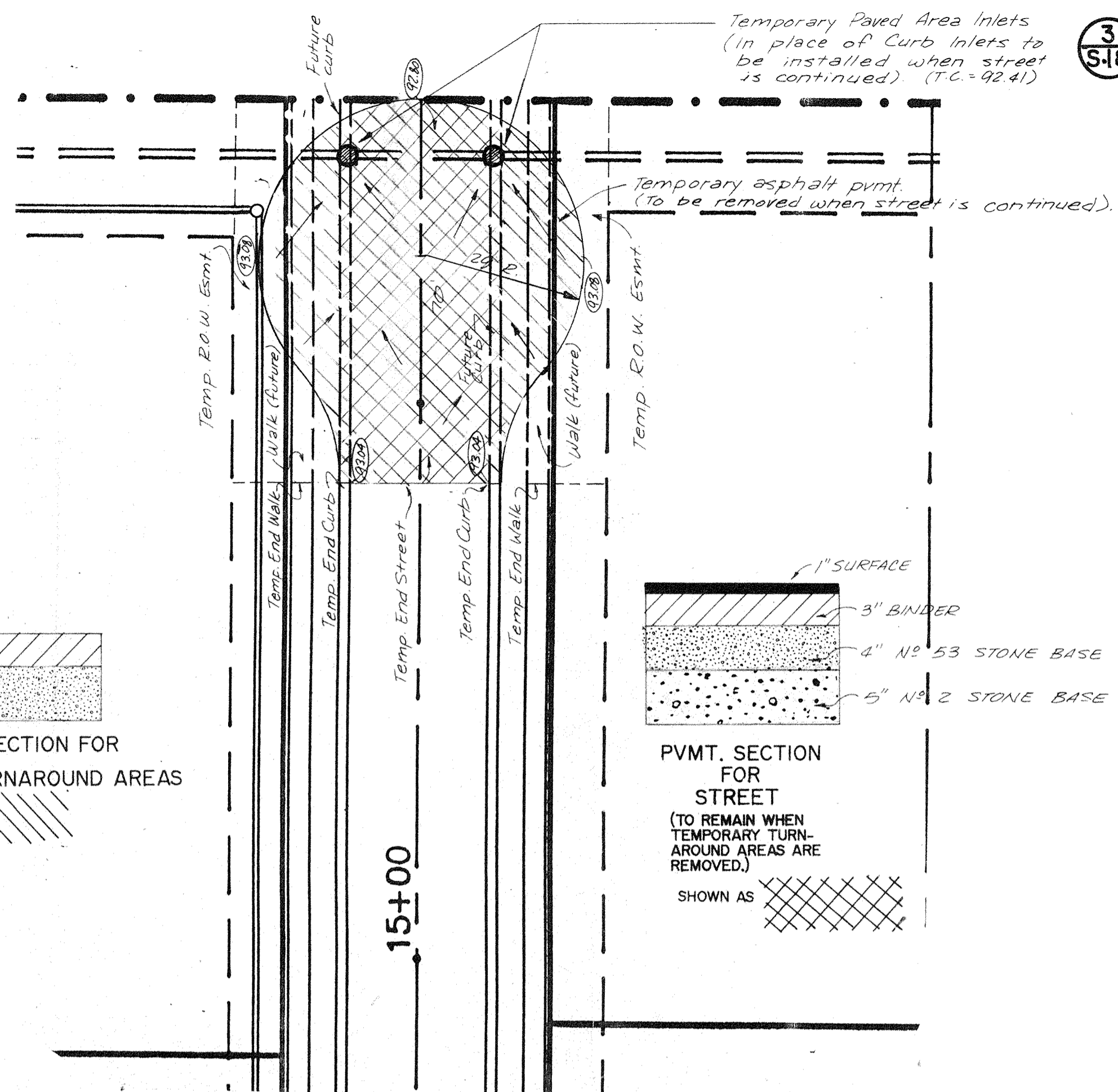
SHEET S15 of 21



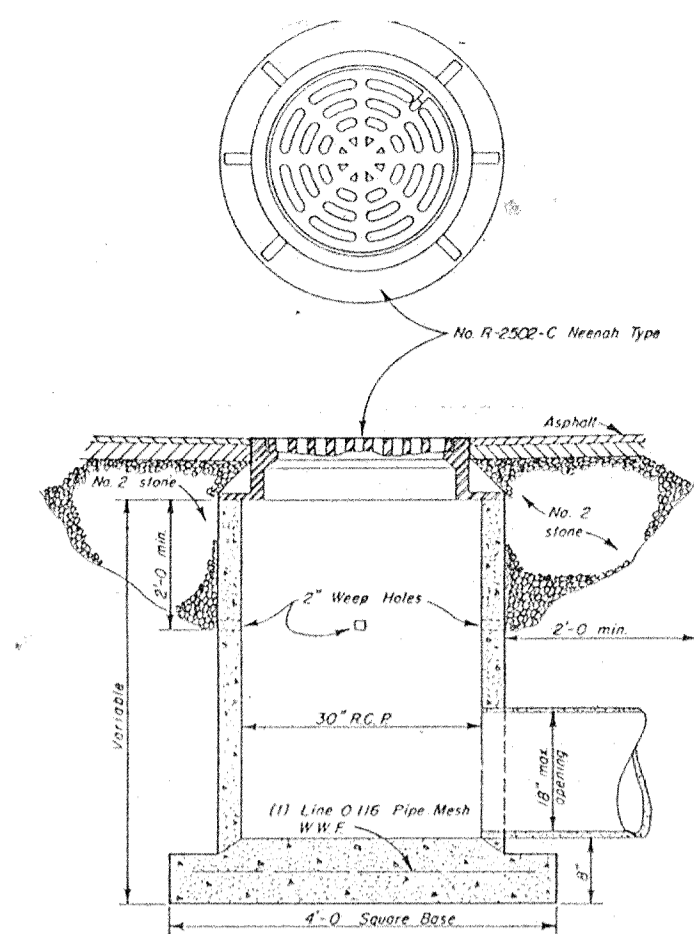
CUL-DE-SAC DETAIL  
SCALE: 1" = 20'



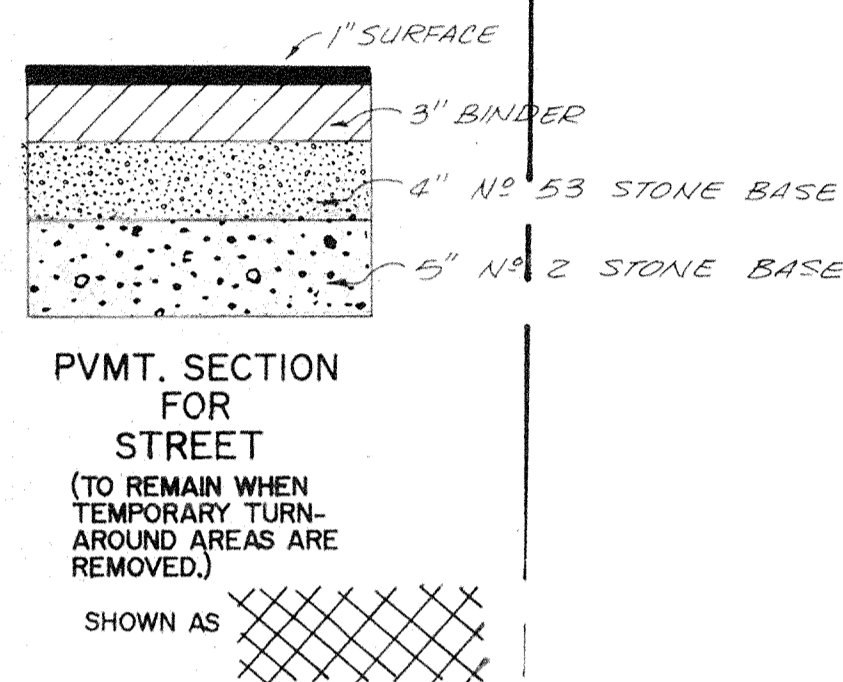
PVT. SECTION FOR  
TEMPORARY TURNAROUND AREAS  
SHOWN AS



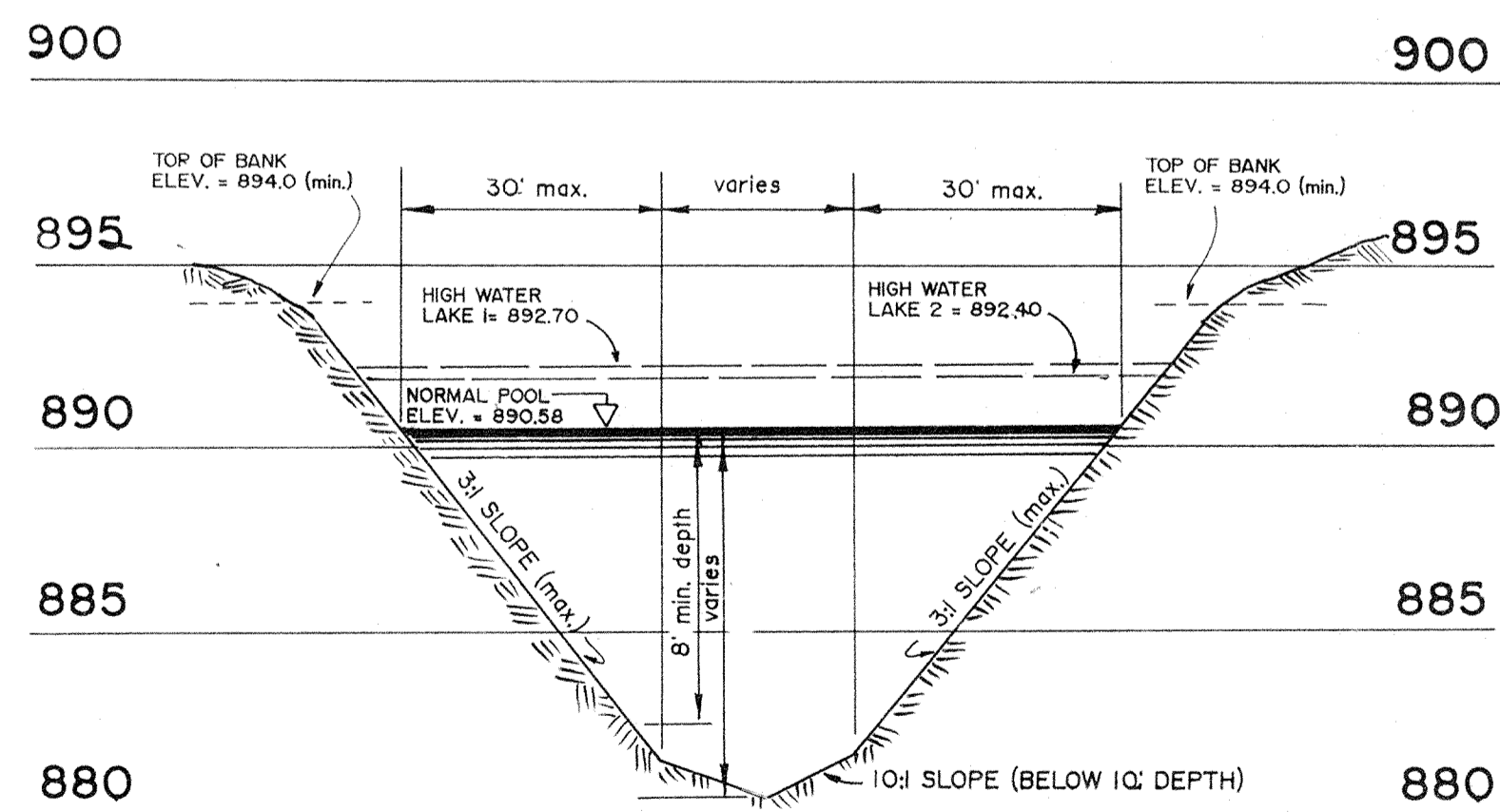
TEMPORARY TURN-AROUND DETAIL  
SCALE: 1" = 20'



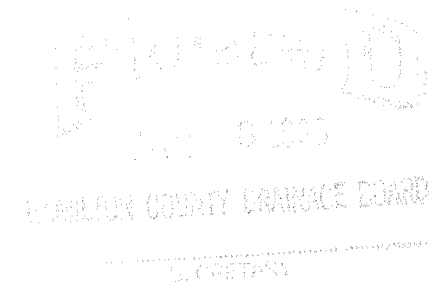
PAVED AREA INLET  
DETAIL  
(not to scale)



PVT. SECTION FOR  
STREET  
(TO REMAIN WHEN  
TEMPORARY TURN-AROUND AREAS ARE  
REMOVED.)  
SHOWN AS



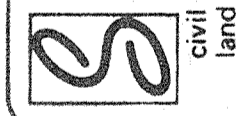
TYPICAL LAKE SECTION  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 5'



DATE	CHECK	NO.	BY	DATE	CHECK
12/17/87					

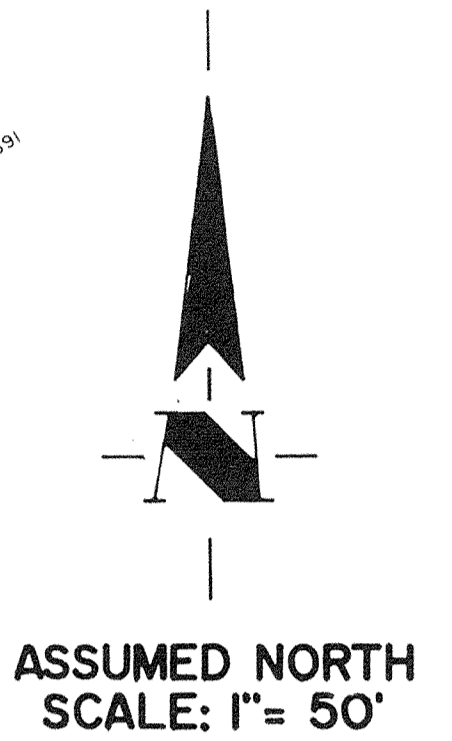
JOHN V. SCHNEIDER  
14653  
INDIANA  
REGISTERED PROFESSIONAL ENGINEER

SCHNEIDER ENGINEERING CORPORATION  
3000 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46226-6518  
(317) 888-8282  
P.O. BOX 280688



PROJECT: WALNUT CREEK WOODS 634  
PREPARED FOR: WALNUT CREEK DEVELOPMENT  
TITLE: GENERAL DETAILS  
SCALE: AS NOTED

SHEET 5 OF 21



REVISIONS

NO.	DATE	CHECK	BY	DATE	CHECK
1	9/7/97				



**BENCH MARKS**

TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-17N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)

TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (INV. COR. SW. 1/4 SEC. 5-17N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)

Temporary Seeding Dates

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Annual Ryegrass												
Non-Irrigated												
Irrigated												
Dormant Seeding												

Notes:  
 \* Late summer seeding dates may be extended 5 days if match is applied.  
 \* Increase seeding application by 50%.

Kind of Seed	1000 Sq. Ft.	Rate per Acre	Remarks
Wheat or Rye	3.5 lbs.	2 bu.	Cover seed 1" to 1 1/2" deep
Spring Grass	2.5 lbs.	3 bu.	Cover seed 1" deep
Annual Ryegrass	1 lb.	40 lbs.	Cover seed 1/4" deep

\* Not necessary where mulch is applied.

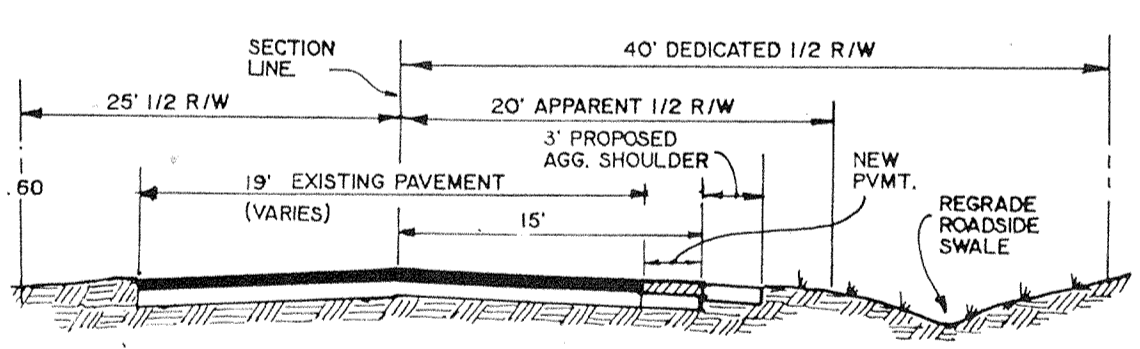
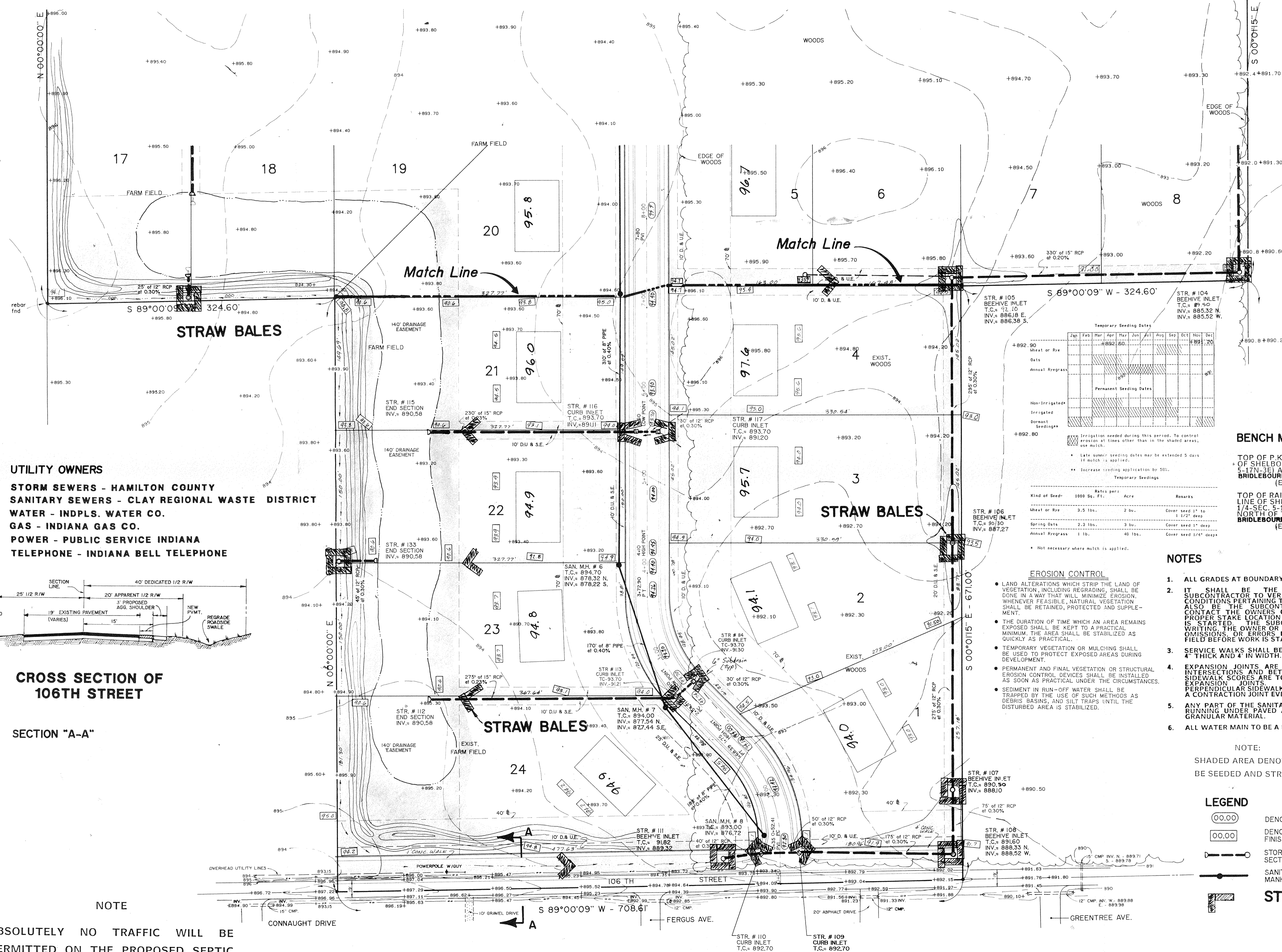
**EROSION CONTROL**

- LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENT.
- THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS QUICKLY AS PRACTICAL.
- TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS DURING DEVELOPMENT.
- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
- SEDIMENT IN RUN-OFF WATER SHALL BE TRAPPED BY THE USE OF SUCH METHODS AS DEBRIS BASINS, AND SILT TRAPS UNTIL THE DISTURBED AREA IS STABILIZED.

- NOTES**
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
  - IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
  - SERVICE WALKS SHALL BE OF NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
  - EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN CONTRACTION JOINTS. CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
  - ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
  - ALL WATER MAIN TO BE A MINIMUM OF 5'-0" BELOW GRADE.

NOTE:  
SHADED AREA DENOTES AREA TO BE SEEDED AND STRAW MULCHED.

- LEGEND**
- 00.00 DENOTES FINISHED PVMT. GRADE
  - 00.00 DENOTES ALL OTHER FINISHED GRADES
  - STORM SEWER w/ END SECTION & INLET (PROPOSED)
  - SANITARY SEWER w/ MANHOLE (PROPOSED)
  - STRAW BALES



**CROSS SECTION OF 106TH STREET SECTION "A-A"**

**SECTION "A-A"**

NOTE  
ABSOLUTELY NO TRAFFIC WILL BE PERMITTED ON THE PROPOSED SEPTIC FIELD AREAS, SHOWN SHADED.

**GENERAL NOTES**

- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- SEWER WALKS SHALL BE OF NON-REINFORCED CONCRETE 4" THICK AND 4" IN WIDTH.
- EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 2' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
- ALL WATER MAIN TO BE A MINIMUM OF 5'-0" BELOW GRADE.

**BENCH MARKS**

TOP OF P.K. NAIL SET IN CENTERLINE OF SHELBOURNE ROAD (WEST LINE OF SEC. 5-1/4 N-3E) AT THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 899.59)

TOP OF RAILROAD SPIKE SET IN CENTERLINE OF SHELBOURNE ROAD (NW COR. SW. 1/4 SEC. 5-1/4 N-3E) APPROX. 1331.80' NORTH OF THE SOUTHWEST CORNER OF BRIDLEBOURNE SUBDIVISION (ELEVATION = 904.39)

**LEGEND**

- 00.00 DENOTES FINISHED PVMT. GRADE
- 00.00 DENOTES ALL OTHER FINISHED GRADES
- STORM SEWER w/ END SECTION & INLET (PROPOSED)
- SANITARY SEWER w/ MANHOLE (PROPOSED)

**STRAW BALES**

**NOTE**

ABSOLUTELY NO TRAFFIC WILL BE PERMITTED ON THE PROPOSED SEPTIC FIELD AREAS, SHOWN SHADED.

**UTILITY OWNERS**

- STORM SEWERS - HAMILTON COUNTY
- SANITARY SEWERS - CLAY REGIONAL WASTE DISTRICT
- WATER - INDPLS. WATER CO.
- GAS - INDIANA GAS CO.
- POWER - PUBLIC SERVICE INDIANA
- TELEPHONE - INDIANA BELL TELEPHONE

**EROSION CONTROL**

- LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
- THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS QUICKLY AS PRACTICAL.
- TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS DURING DEVELOPMENT.
- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
- SEDIMENT IN RUN-OFF WATER SHALL BE TRAPPED BY THE USE OF SUCH METHODS AS DEBRIS BASINS, AND SILT TRAPS UNTIL THE DISTURBED AREA IS STABILIZED.

Temporary Seeding Dates

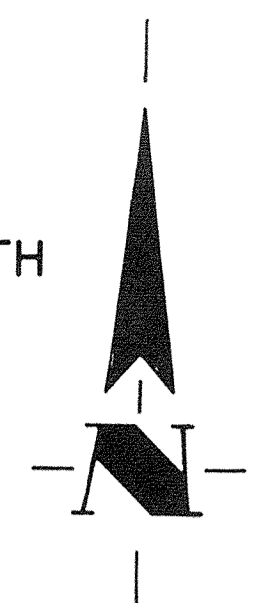
Wheat or Rye	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Oats												
Annual Ryegrass												
Non-irrigated												
Irrigated												
Dormant Seeding												

Permanent Seeding Dates

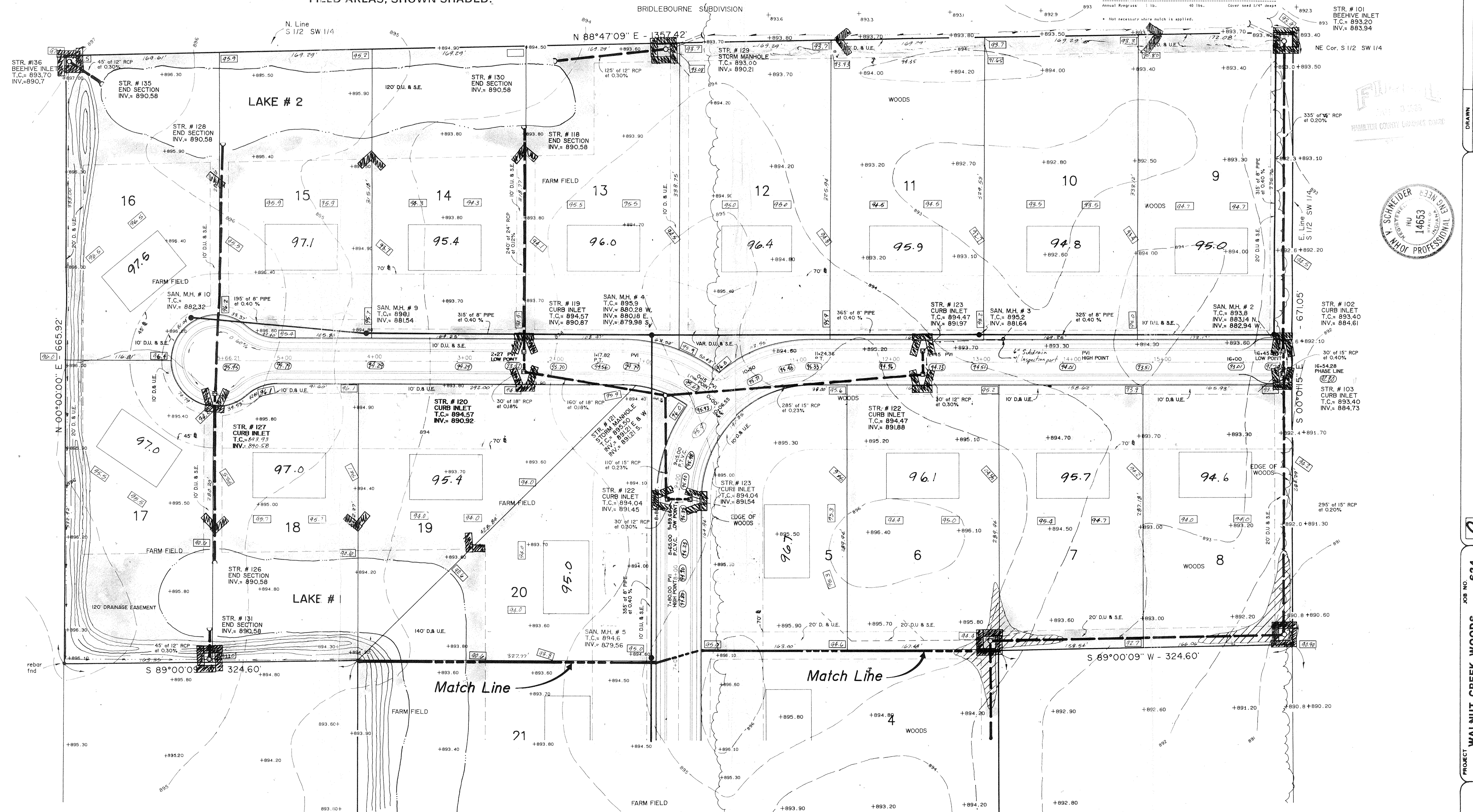
NOTE: Irrigation needed during this period. To control erosion at times other than in the shaded areas, use mulch.

- Late summer seeding dates may be extended 5 days if mulch is applied.
- Increase seeding application by 50%.

ASSUMED NORTH SCALE: 1" = 50'



NOTE: SHADED AREA DENOTES AREA TO BE SEEDED AND STRAW MULCHED.



REVISIONS

NO.	DATE	CHECK NO.	BY	DATE	CHECK

DRAWN BY: [Signature]

CHECKED BY: [Signature]

CERTIFIED JOHN V. SCHNEIDER SEPTEMBER 30, 1987

SCHNEIDER ENGINEERING CORPORATION  
200 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46224-6518  
(317) 898-8282  
P.O. BOX 29068

PROJECT: WALNUT CREEK WOODS  
PREPARED FOR: WALNUT CREEK DEVELOPMENT  
TITLE: EROSION CONTROL  
SCALE: as noted

SHEET'S-21  
OF 21