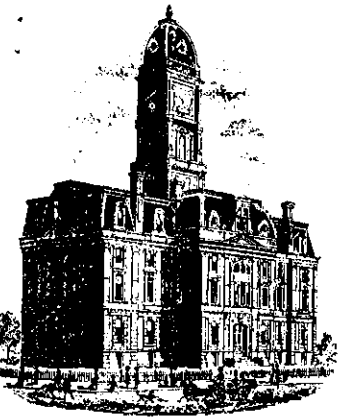


**Drain:** CROOKED CREEK DRAIN **Drain #:** 250  
**Improvement/Arm:** SPRING ARBOR - SECTION 1  
**Operator:** JOH **Date:** 11-26-03  
**Drain Classification:** Urban/Rural **Year Installed:** 1992

**GIS Drain Input Checklist**

- Pull Source Documents for Scanning JTB 11-26
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JTB 11-26
- Digitize & Attribute SSD JTB 11-26
- Digitize & Attribute Open Ditch JTB 11-26 JWG 12-12
- Stamp Plans JTB 11-26
- Sum drain lengths & Validate JTB 11-26
- Enter Improvements into Posse JTB 11-26
- Enter Drain Age into Posse JWG
- Sum drain length for Watershed in Posse JWG
- Check Database entries for errors JTB 11-26





SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

December 14, 1992

TO: Hamilton County Drainage Board

RE: Crooked Creek Drain-Spring Arbor Section 1 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Crooked Creek Drain-Spring Arbor Section 1 Arm. I have reviewed 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	4000ft	15" RCP	300ft	Open Ditch	1465ft
42"x96" Box Culvert	45ft	18" RCP	472ft		
12" RCP	921ft	24" RCP	142ft		

The total length of drain will be 7345 feet.

The open ditch shown above is that portion of Crooked Creek running through this section and the open ditch between the storm sewer outlets (Structures 25, 16, and 10) and Crooked Creek.

The retention area located in the preserve at the rear of Lots 8-20 is not to be considered part of the regulated drain. Only the inlet and outlet and open ditches will be maintained as part of the regulated drain. The maintenance of the preserve 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 and those main lines are located

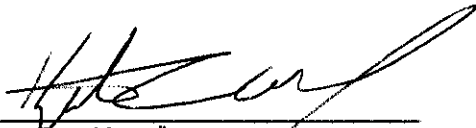
within the easement or R/W are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated drain other than those under curbs is that in the rear of Lots 53 and 54.

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 \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$1207.50.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Spring Arbor, 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 1993.



Kenton E. Ward  
Hamilton County Surveyor

KCW/no

STATE OF INDIANA )  
 ) SS:  
COUNTY OF HAMILTON )

TO: Hamilton County Drainage Board, Noblesville, Indiana  
% County Surveyor, Courthouse, Noblesville, Indiana

In the matter of Spring Arbor Subdivision,  
Section I 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 ~~Spring Arbor~~ Crooked Creek, 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 improvement 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 for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers 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 the Engineer throughout the construction phase. At completion of the project the Petitioners 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 shall request all changes from the approved plan 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 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 Surveyor shall immediately install or repair the needed measures as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain.

Paul Roix  
SIGNED

Paul Roix  
PRINTED NAME

\_\_\_\_\_  
SIGNED

\_\_\_\_\_  
PRINTED NAME

RECORDED OWNER (S) OF LAND INVOLVED  
Shelbourne Partners, L.P.

DATE December 1, 19 92

ENGINEER'S ESTIMATE

PROJECT NO. 114-0603  
 DESCRIPTION SPRING ARBOR PHASE I

08-Oct-92

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE DOLS.CENTS	AMOUNT DOLS.CENTS
1.	SANITARY SEWER				
	6" PVC LATERALS	1850	LFT	10.00	\$18,500.00
	8" PVC MAIN	2070	LFT	15.50	\$32,085.00
	MANHOLE 4FT DIAMETER	9	EACH	1500.00	\$13,500.00
	GRANULAR FILL	2080	TONS	5.50	\$11,440.00
	CONCRETE ENCASING	0.5	CYDS	80.00	\$40.00
2.	STREETS AND DRIVES ASPHALT ROAD	4960	SYS	12.25	\$60,760.00
3.	STORM SEWER				
	INLET TYPE "A"	1	EACH	800.00	\$800.00
	MANHOLE TYPE "B"	13	EACH	1000.00	\$13,000.00
	12" R.C.P. PIPE	671	LFT	12.50	\$8,387.50
	15" R.C.P. PIPE	167	LFT	16.50	\$2,755.50
	18" R.C.P. PIPE	605	LFT	20.00	\$12,100.00
	24" R.C.P. PIPE	142	LFT	28.00	\$3,976.00
	GRANULAR FILL	460	TONS	6.50	\$2,990.00
	6" UNDERDRAIN	4000	LFT	6.00	\$24,000.00
	END SECTIONS	4	EACH	200.00	\$800.00
4.	CONCRETE ROLL CURB AND GUTTER CURB	4000	LFT	5.60	\$22,400.00
5.	EROSION CONTROL/LANDSCAPE				
	SEEDING AND STRAWING	5400	SYS	0.60	\$3,240.00
	NORTH AMERICAN GREEN	1000	SYS	1.25	\$1,250.00
6.	CONCRETE SIDEWALKS (4' WIDE) SIDEWALKS	1450	LFT	10.00	\$14,500.00
7.	SIGNS, MONUMENTS, AND MARKERS				
	SIGNS	5	EA	100.00	\$500.00
	MONUMENTS AND MARKERS	4	EA	100.00	\$400.00
					=====
				SUB TOTAL	\$247,424.00
	CONTINGENCIES @			10 %	\$24,742.40
					=====
					\$272,166.40





*Engineering*  
*Surveying*  
*Landscape Architecture*  
*Digital Mapping*

**HAMILTON COUNTY DRAINAGE BOARD**  
**CERTIFICATE OF COMPLETION AND COMPLIANCE**

Address of premises on which land alteration was accomplished: North of West 96th Street on Shelbourne Road (part of Northeast Quarter and Southeast Quarter of Section 7, Township 17 North, Range 3 East, Clay Township, Hamilton County, Indiana)

Project Name: Spring Arbor Sections 1 & 2

Relative to plans prepared by MSE Corporation on September 8, 1993.

I hereby certify that:

1. I am familiar with drainage requirements applicable to such land alteration ( as set forth by the Hamilton County Drainage Board).
2. Land alteration accomplished pursuant to the referenced drainage permit was observed by personnel under my direction, and
3. To the best of my knowledge, information and belief, such land alteration has been performed and completed in conformity with all such drainage requirements.

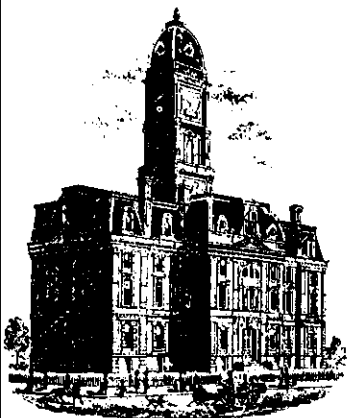
Certified this 7<sup>th</sup> day of December, 1995.

MSE CORPORATION



Jeffrey A. Meyerrose  
Registered Land Surveyor #890003 - Indiana





SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, Surveyor*

*Phone (317) 776-8495*

*Fax (317) 776-9628*

*Suite 146*

*One Hamilton County Square*

*Noblesville, Indiana 46060-2230*

July 24, 1996

To: Hamilton County Drainage Board

Re: Crooked Creek Drain  
Spring Arbor Section 1

Attached are as-builts, compliance and other information for Spring Arbor Section 1. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction of the drain there were not any significant changes made to the plans submitted with my report dated December 14, 1992. Therefore, the length of the drain remains at 7345 feet.

The non-enforcement of easement was approved by the Board at it's meeting on February 16, 1993.

The bond or letter of credit from Union State Bank, number 2371, dated November 3, 1992, in the amount of \$68,300.00, has been released.

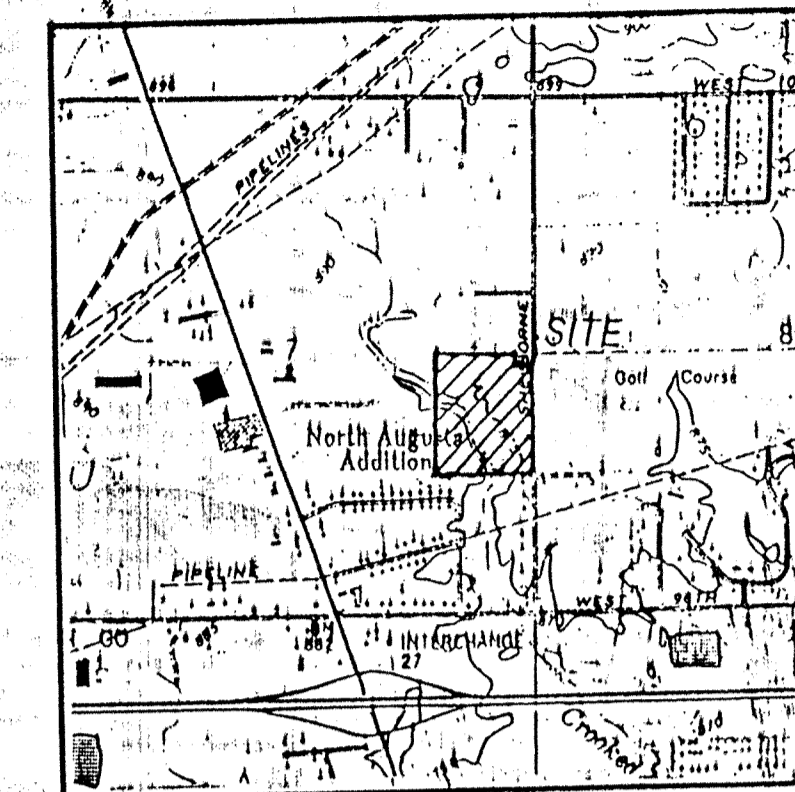
I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,

Kenton C. Ward  
Hamilton County Surveyor

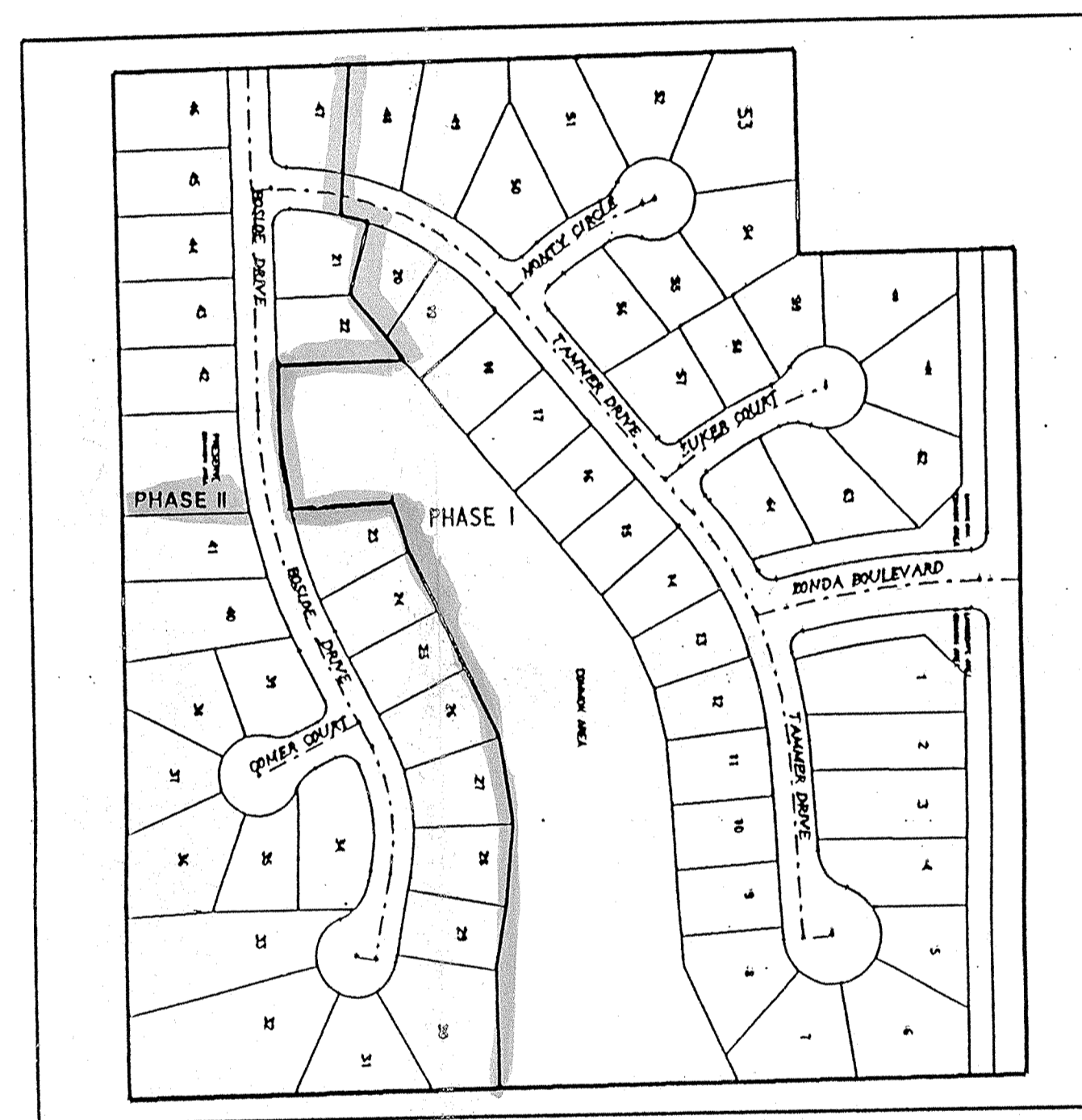
KCW/ndw

# CONSTRUCTION PLANS FOR SPRING ARBOR AS-BUILTS



VICINITY MAP

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-N/A	SPECIFICATION SHEET
3	SITE UTILITY PLAN
4-N/A	GRADING PLAN
5-7-N/A	STREET PLAN & PROFILES
8-10	SANITARY PLAN & PROFILES
11-13	STORM PLAN & PROFILES
14-N/A	ENTRANCE DETAIL
15-N/A	CUL-DE-SAC DETAILS
16-N/A	INTERSECTION DETAILS
17-N/A	EROSION CONTROL PLAN
18-19-N/A	CONSTRUCTION DETAILS



SHEET NO.	REVISIONS	INITIAL RELEASE	9-8-92
2, 8-10, & 19	Revised per C.T.R.W.D.	9-15-92	
13	REV. INVERTS & SLOPES FOR STR # 25-29	10/5/92	
4, 17	REVISED PER SOIL AND WATER CONSERVATION	10/8/92	
9, 19	REVISED PER C.T.R.W.D.	10/12/92	
2	REVISED PER C.T.R.W.D.	10/15/92	
17	REV. PER HAM. CO. DRAINAGE	10/15/92	
12 & 17	REV. PER HAM. CO. SOIL & WATER CONS.	10/16/92	
3, 4, & 13	REV. PER HAMILTON COUNTY DRAINAGE	10/27/92	
3 & 17	REV PER CARMEL D.O.C.D.	10/28/92	
3, 4, & 16	REV. BOSLOE DRIVE CUL-DE-SAC	11/18/92	

**NOTES:**

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

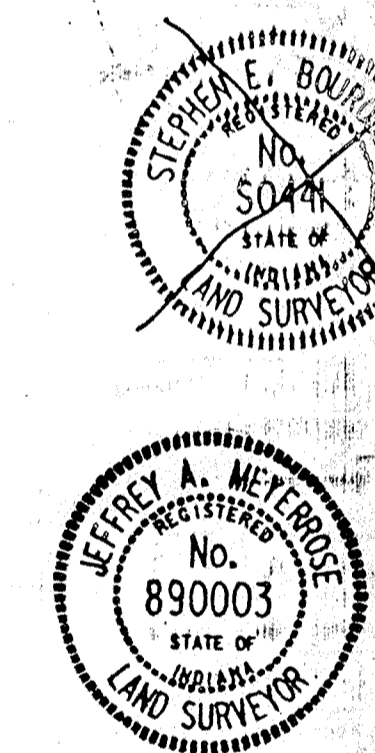
ANY ALTERATIONS TO THESE PLANS NOT AUTHORIZED BY MSE ENGINEERING AND NOT IN ACCORDANCE WITH THE PLANS AND RECORDS ON FILE AT MSE ENGINEERING OFFICES SHALL RELIEVE MSE ENGINEERING OF RESPONSIBILITY FOR OVERALL ACCURACY OF PLANS.

PLANS PREPARED FOR  
ESTRIDGE DEVELOPMENT COMPANY  
148 WEST CARMEL DRIVE  
CARMEL, INDIANA 46032  
(317) 846-7311

PREPARED BY:  
**MSE Engineering**  
MSE Corporation  
501 Congressional Boulevard  
Suite 110  
Carmel, IN 46032  
317 843-5080  
317 843-5089 FAX

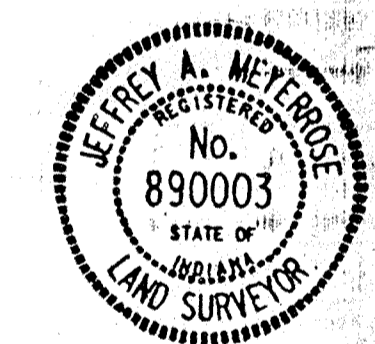
**NOTE: THE PHASE II AS-BUILTS  
WERE COMPLETED  
JANUARY 21, 1994.**

**UTILITIES**  
TELEPHONE- INDIANA BELL COMPANY  
CAT.V- NONE  
GAS - NONE  
WATER - INDIANAPOLIS WATER COMPANY  
SANITARY - CLAY TOWN REGIONAL WASTER DIST.  
ELECTRIC - INDIANAPOLIS POWER AND LIGHT CO.



CERTIFIED THIS 8th DAY OF September 1992

STEVE BOURQUEIN  
Registered Professional Land Surveyor No. 50441 Indiana



Jeffrey A. Meyerhose  
Registered Land Surveyor No. 890003-IN

"DON'T DIG BLIND"

1-800-382-6544  
CALL BEFORE YOU DIG

**PROJECT DATA**

ACRES : 30.346  
LOTS : 64  
LOTS/ACRE : 2.11

**DEDICATED STREET DATA**

STREET NAME	LENGTH IN MILES
BOSLOE DRIVE	0.21
TAMMER DRIVE	0.24
ZONDA BOULEVARD	0.06
GOMER COURT	0.03
MONTY CIRCLE	0.0A
ZUGER COURT	0.04
TOTAL	

SHEET 1 OF 198

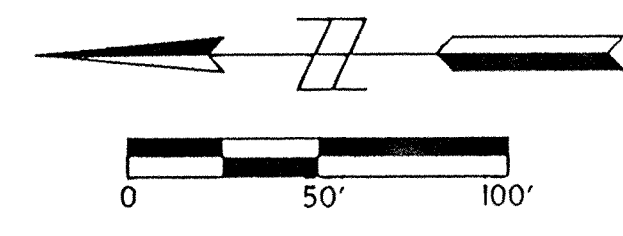
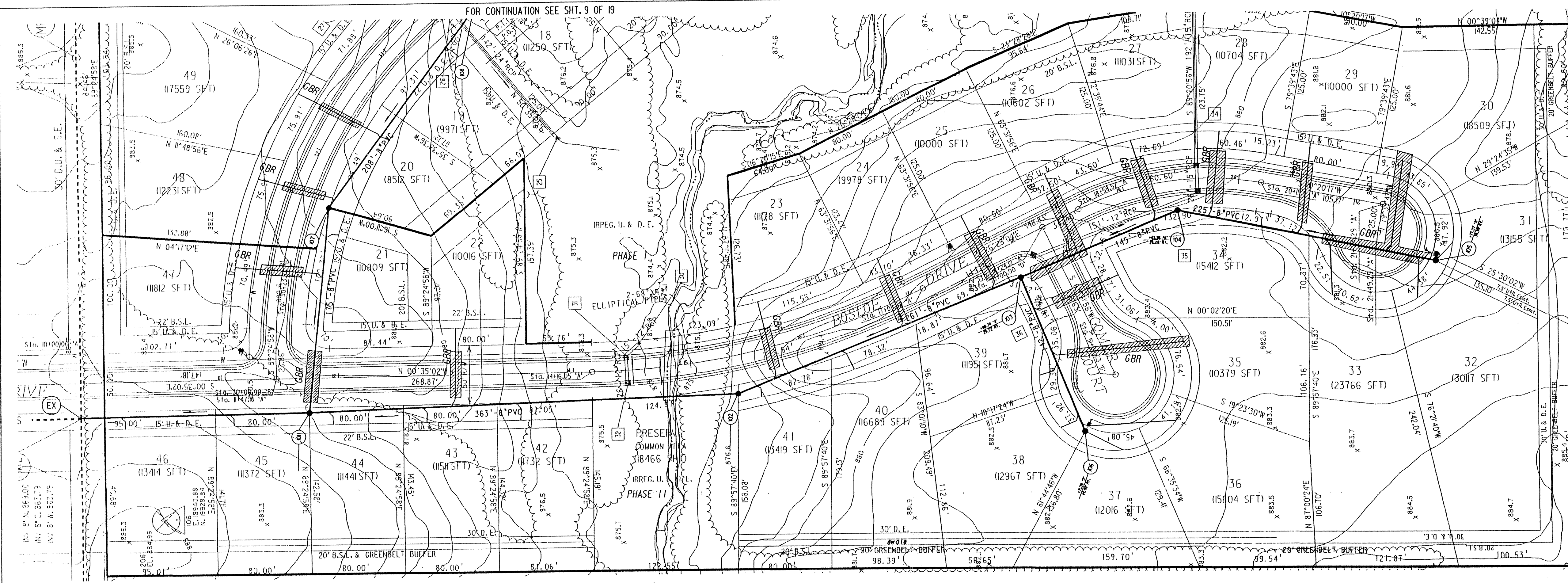
JOB No. F14-0603

SEP 25 1992  
OFFICE OF HAMILTON COUNTY SURVEYOR

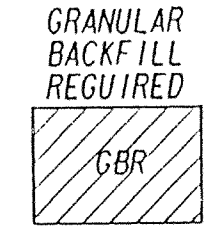


FOR CONTINUATION SEE SHIT. 9 OF 19

DATE	BY



NOTES:  
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.  
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

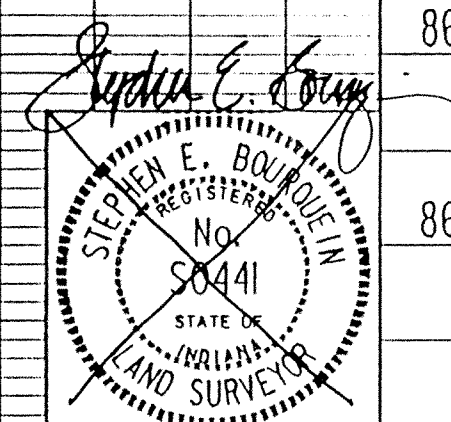
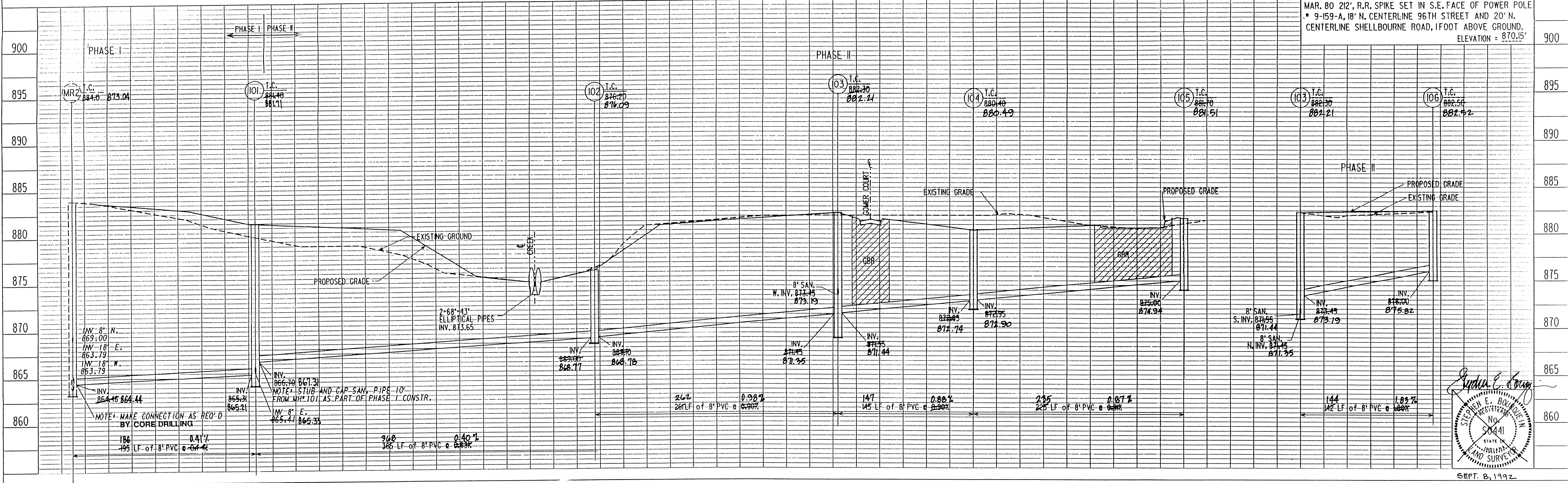


SCALE:  
 PLAN: 1" = 50'  
 PROFILE: 1" = 5'  
 VERTICAL: 1" = 5'  
 HORIZONTAL: 1" = 50'

**BENCH MARK DESCRIPTION**

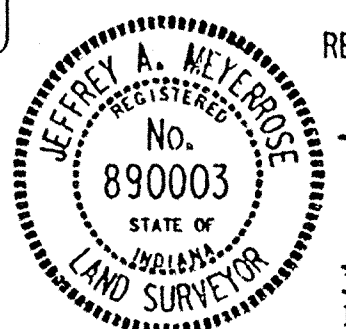
MAR. 80 212', R.R. SPIKE SET IN S.E. FACE OF POWER POLE  
 9-159-A, 18' N. CENTERLINE 96TH STREET AND 20' N.  
 CENTERLINE SHELLBOURNE ROAD, 1 FOOT ABOVE GROUND.  
 ELEVATION = 870.15'

DATE	BY



**MSE Engineering**

NOTE: THE PHASE II AS-BUILTS WERE COMPLETED JANUARY 21, 1994.



REV. PER C.T.R.N.D. 9/15/92  
 As-built information provided by MSE Corporation, certified this 7th day of July, 1993  
 Jeffrey A. Meigs  
 Registered Land Surveyor No. 890003-IN

**Sanitary and Storm AS-BUILTS**

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DCN	PRF
84-0603	1	3	4	40603P5	40603P5

3 FILED

SEP 25 1995  
 OFFICE OF SANITARY PLANNING & PROFILES

PLAN SHEET NO. DATE  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]

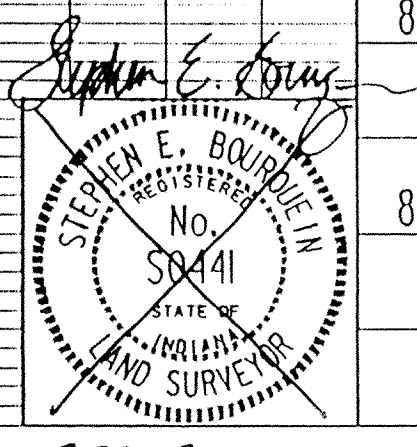
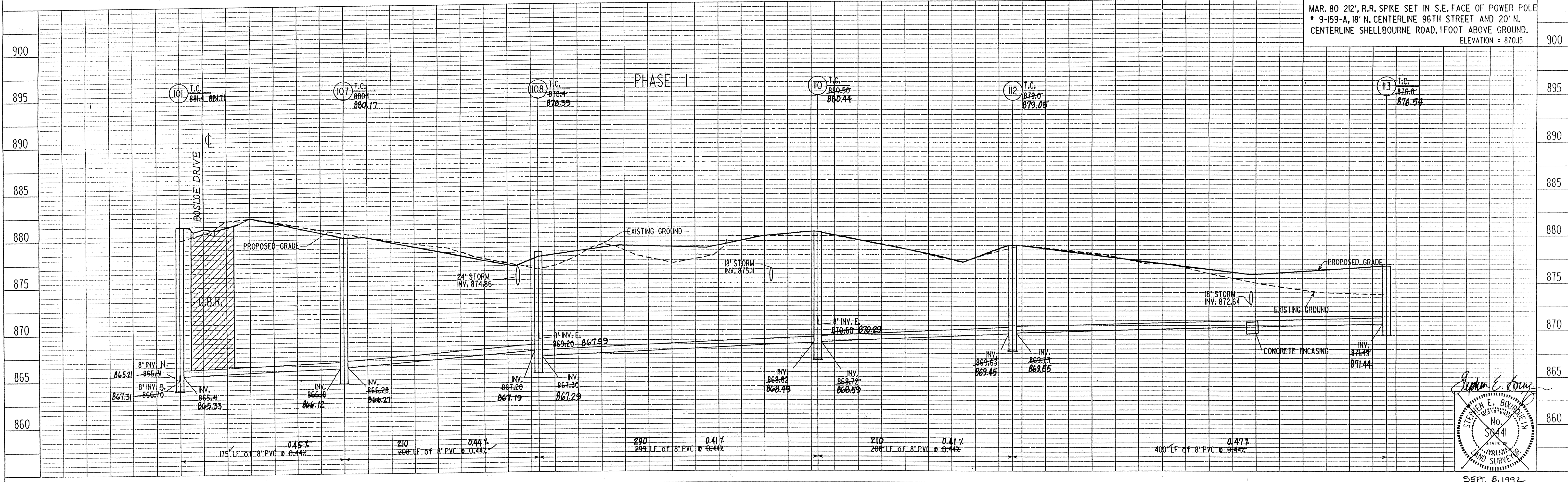
PROFILE SHEET NO. DATE  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]



NOTES:  
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.  
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.  
 GRANULAR BACKFILL REQUIRED  
 SCALE: PLAN: 1" = 50'  
 PROFILE: 1" = 5'  
 VERTICAL: 1" = 5'  
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

MAR. 80 212', R.R. SPIKE SET IN S.E. FACE OF POWER POLE  
 9-159-A, 18" N. CENTERLINE 96TH STREET AND 20' N. CENTERLINE SHELLBOURNE ROAD, 1 FOOT ABOVE GROUND.  
 ELEVATION = 870.15



MSE Engineering

REV. PER C.T.R.W.D. 9/15/92  
 10/1/92 REGISTERED AT STR.# 101  
 As-built information provided by MSE Corporation, certified this 7<sup>th</sup> day of July, 1993  
 Jeffrey A. Magerrick  
 Registered Land Surveyor No. 890003, IN

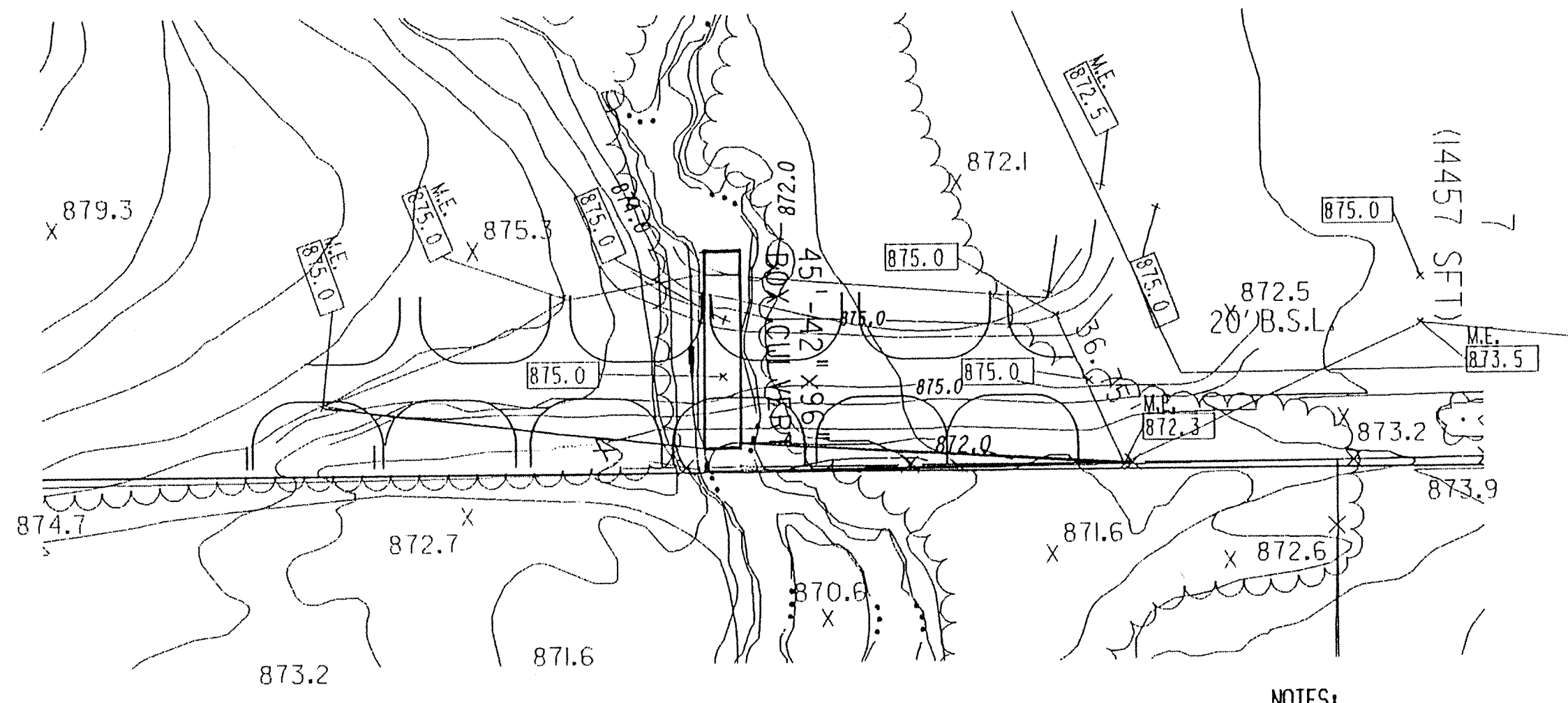
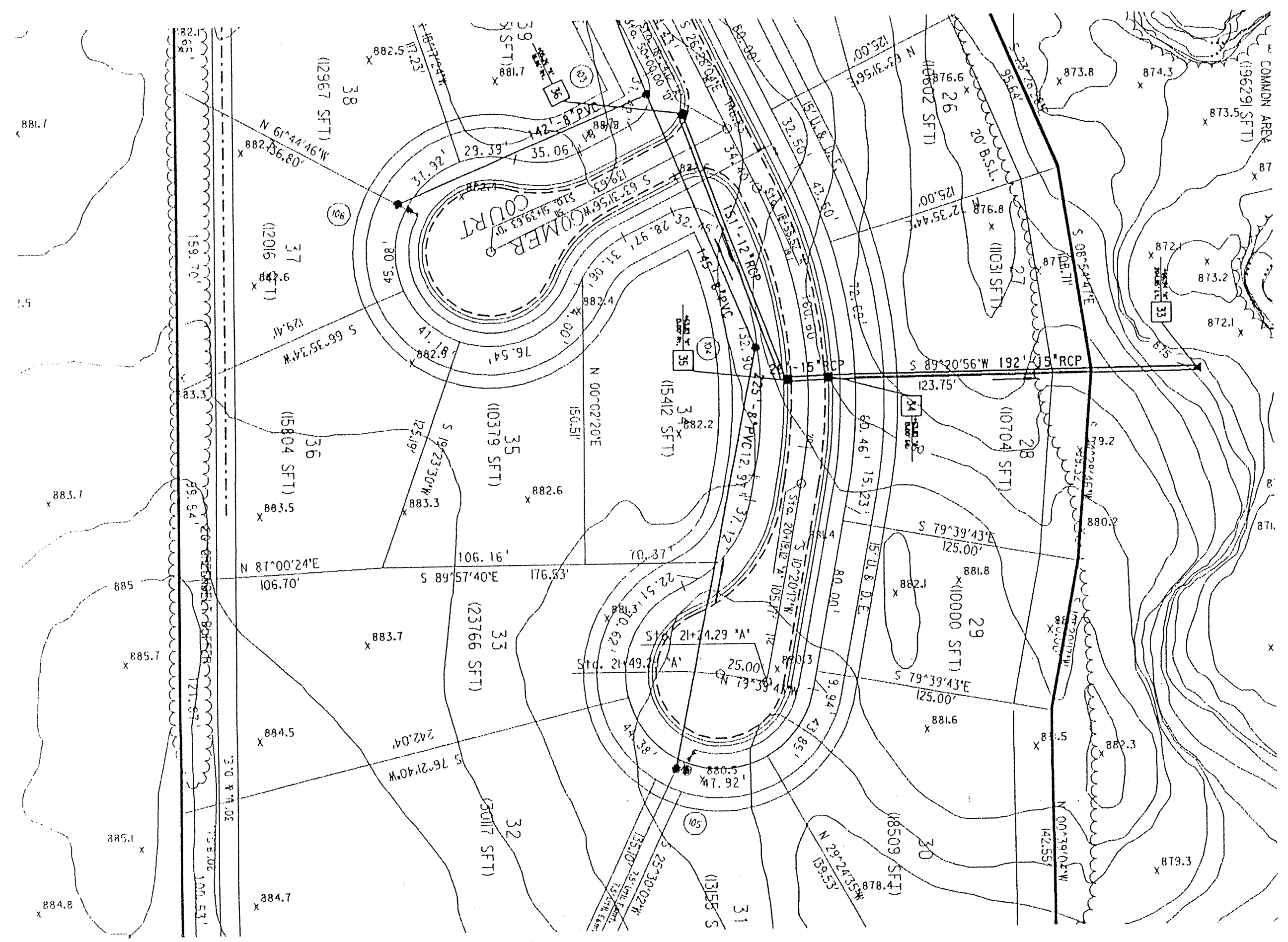
SPRING ARBOR  
 PROJECT NO. 14-0603  
 SHEET NO. 4  
 TOTAL SHEETS 8  
 DDN 4060306  
 SEP 25 1995  
 OFFICE OF HAMILTON COUNTY SURVEYOR  
 SANITARY PLAN & PROFILES  
**Sanitary and Storm AS-BUILTS**







DATE	
BY	
PROJECT NO.	
DATE PLOTTED	
NOTE BOOK CHECKED	
NOTE BOOK #1 OF #1 CHECKED	
NO.	



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

Entry Date: 11-26-03

Entered by: JDH

EMBANKMENT DETAIL

NOTES:  
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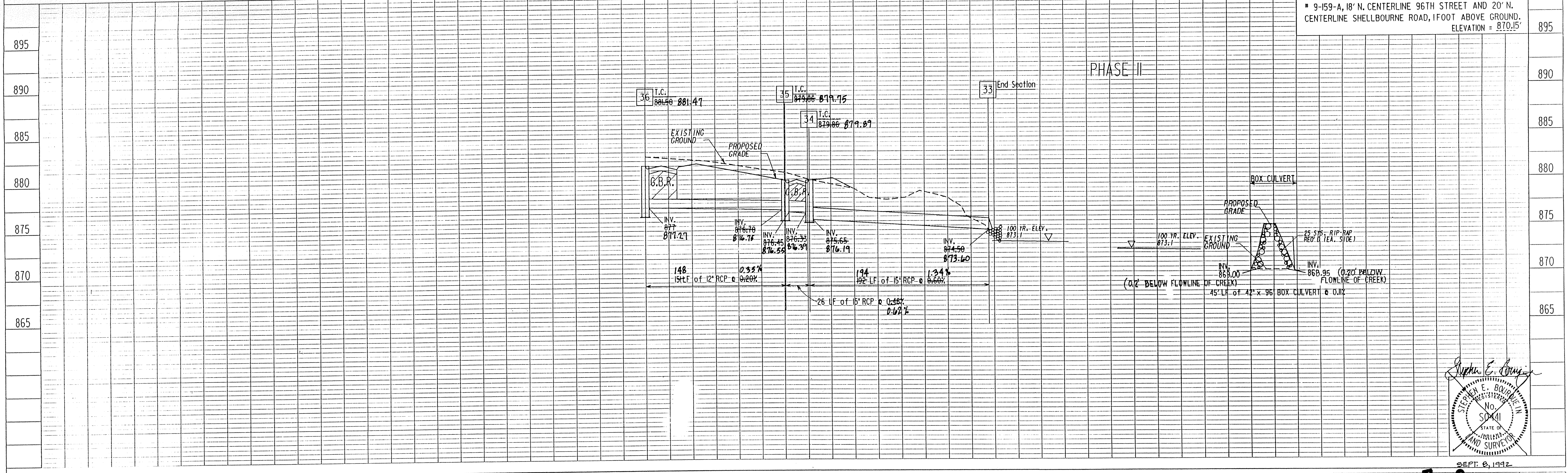
GRANULAR BACKFILL REQUIRED

SCALE:  
 PLAN: 1" = 50'  
 PROFILE: 1" = 5'  
 VERTICAL: 1" = 5'  
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

MAR 80 212' R.R. SPIKE SET IN S.E. FACE OF POWERPOLE # 9-159-A, 18' N. CENTERLINE 96TH STREET AND 20' N. CENTERLINE SHELLBOURNE ROAD, 1 FOOT ABOVE GROUND. ELEVATION = 870.15'

DATE	
BY	
PROJECT NO.	
DATE PLOTTED	
NOTE BOOK CHECKED	
NOTE BOOK #1 OF #1 CHECKED	
NO.	



SEPT. 8, 1992

STEPHEN E. BOURBON  
 No. 5041  
 STATE OF INDIANA  
 LAND SURVEYOR

NOTE: THE PHASE II AS-BUILTS WERE COMPLETED JANUARY 21, 1994

MSE Engineering

JEFFREY A. MEYERHOFF  
 No. 890003  
 STATE OF INDIANA  
 LAND SURVEYOR

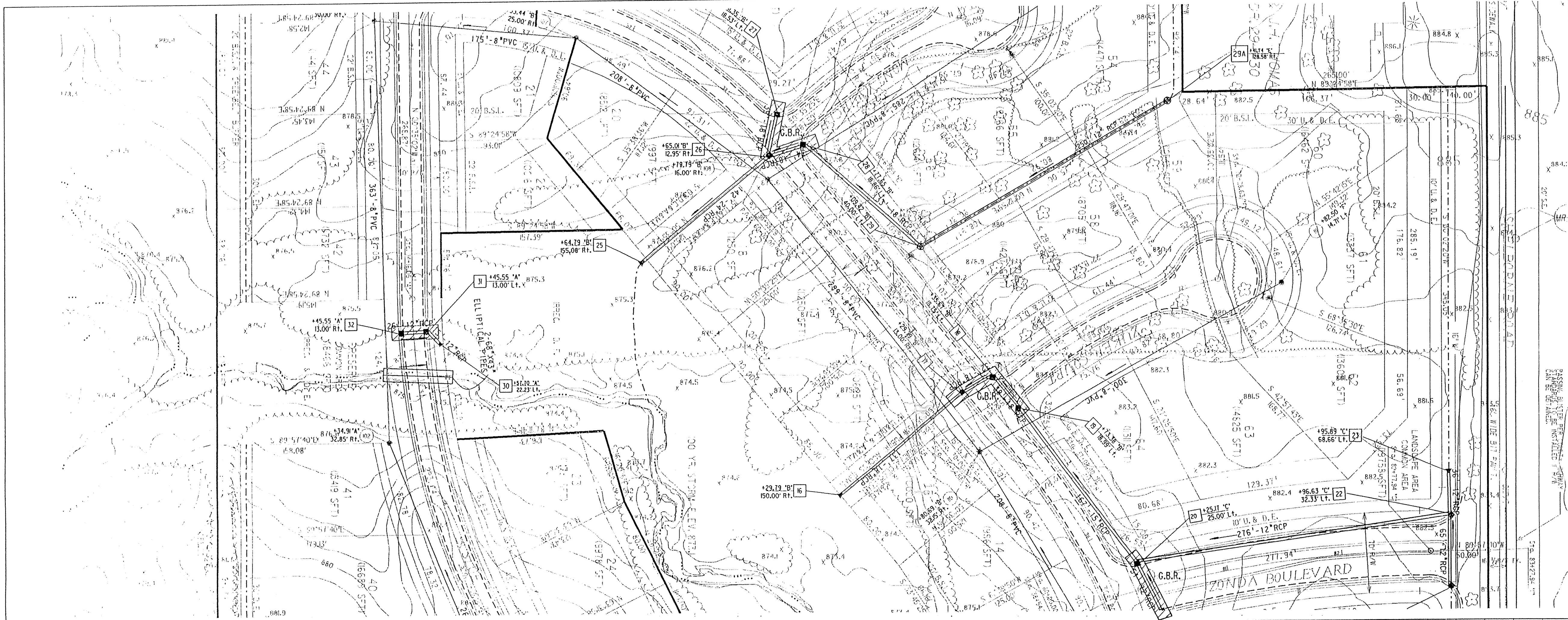
As-built information provided by MSE Corporation, certified this 7<sup>th</sup> day of JULY, 1993

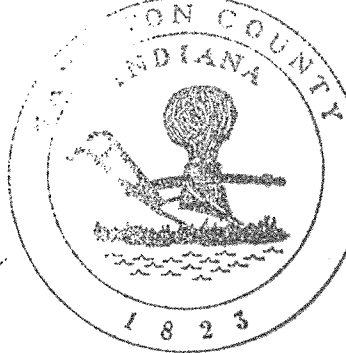
Sanitary and Storm AS-BUILTS

SPRING ARBOR

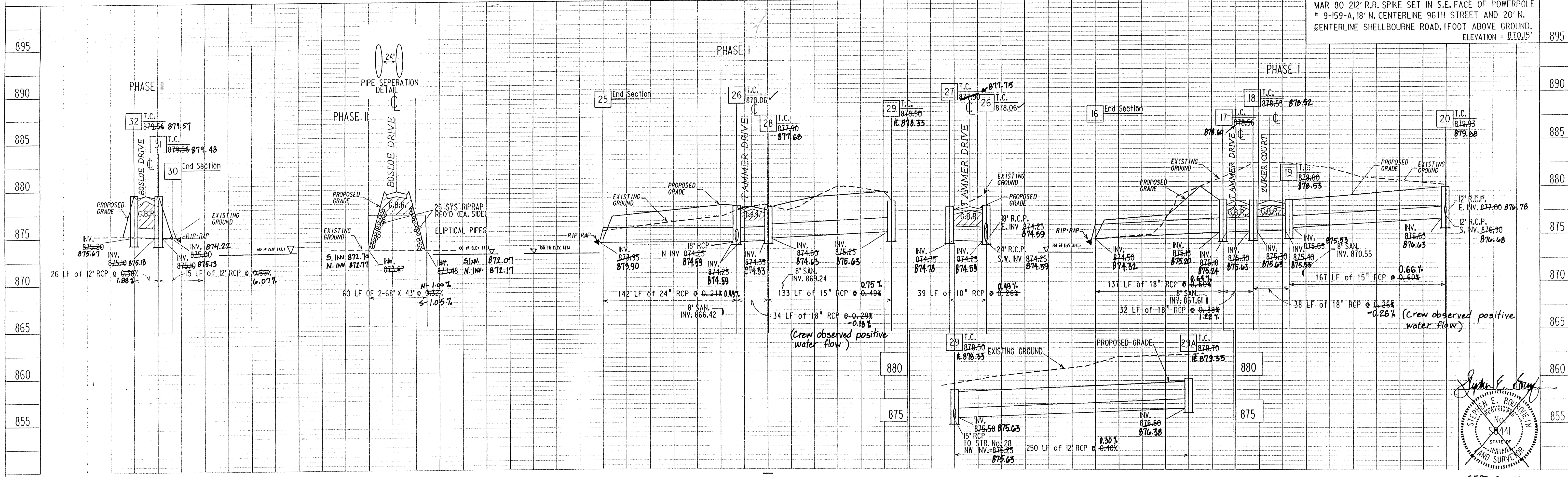
PROJECT NO.	14-0603	DATE	01/16/92	REV.	Rev. Box Culvert Inv.	DCN	40603p9	PRF	40603p9
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SEP 25 1995  
 PHASE II OFFICE OF HAMILTON COUNTY SURVEYOR  
 STORM PLAN & PROFILES




 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: 11-26-03  
 Entered by: JMH

**NOTES:**  
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 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.  
 SCALE: PLAN: 1" = 50'  
 PROFILE: VERTICAL 1" = 5', HORIZONTAL 1" = 50'  
**BENCH MARK DESCRIPTION**  
 MAR 80 212' R.R. SPIKE SET IN S.E. FACE OF POWERPOLE # 9-159-A, 18' N. CENTERLINE 96TH STREET AND 20' N. CENTERLINE SHELLBOURNE ROAD, 1FOOT ABOVE GROUND. ELEVATION = 870.15'



**MSE Engineering**  
 NOTE: THE PHASE II AS-BUILTS WERE COMPLETED JANUARY 21, 1994.  
 REV. INV. ELEV. 9/16/92  
 10/5/92 REV. PER INV. & SLOPES FOR STRS. # 25-29.  
 10/27/92 ADDED PIPE & STR. No. 29A  
 As-built information provided by MSE Corporation, certified this 7<sup>th</sup> day of July, 1993.  
 PROJECT NO. M-0603  
 LANE  
 SHEET NO. 8  
 TOTAL SHEETS 8  
 DGN 4060304  
 PFD 4060304  
**Sanitary and Storm AS-BUILTS**  
 PHASE I & II STORM PLAN & PROFILES  
 SEP 25 1996  
 OFFICE OF HAMILTON COUNTY SURVEYOR  
 STEPHEN E. BOYD  
 No. 89441  
 STATE OF MISSOURI  
 LAND SURVEYOR  
 SEP 8 1992