

Drain: WR FERTIG DRAIN **Drain #:** 176
Improvement/Arm: WOOD PARK - SECTION 2
Operator: JOH **Date:** 12-16-03
Drain Classification: Urban/Rural **Year Installed:** 1989

GIS Drain Input Checklist

- Pull Source Documents for Scanning JOH 12-16-03
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JOH 12-16 JOH
- Digitize & Attribute SSD JOH 12-17
- Digitize & Attribute Open Ditch JOH
- Stamp Plans JOH 12-17 JOH
- Sum drain lengths & Validate JOH 12-17 JOH
- Enter Improvements into Posse JOH JOH
- Enter Drain Age into Posse JOH
- Sum drain length for Watershed in Posse JOH
- Check Database entries for errors JOH 12-17

**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: W J FERTIG DRAIN - WOOD PARK - SECTION 4

Drain Type:	Size:	Length, (SURVEYORS REPORT)	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	4,600'	2,930'	-1,670'		
RCP	12"	100'	106.6'	6.6'		
	15"	1,470'	1,488.4'	18.4'		
	18"	240'	230.2'	-9.8'		
	24"	400'	401.6'	1.6'		
	30"	130'	129.1'	-0.9'		
OFFSITE		1,420'	1,706'	286'		

Sum: 8360' 6991.90' -1368.1'

Final Report: 7810'

Comments:

LENGTHS LISTED ON FINAL REPORT DO NOT ADD UP TO THE TOTAL LENGTH
GIVEN ON THE SAME REPORT. SEE OFFSITE SHEET FOR DESCRIPTION
OF DISCREPANCY

Gasb 34 Footages for Historical Cost
Drain Length Log

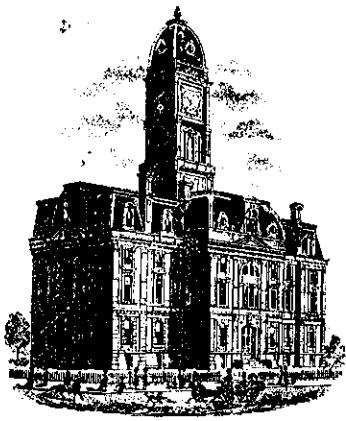
Drain-Improvement: WR FERTIG - WOODPARK SECL OFFSITE

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
RCP	15"	605'	605'			
CONC SWALE		315'	315'			
OPEN DITCH		420'	471'	+51'		
RCP	24"	0'	215'	+215'		
CMP	86"	0'	20'	+20'		
	24"x15"	70.5'	70.5'			
RCP	12"	9.5'	9.5'			

Sum: 1420 1706' +286'

Final Report: 1420'

Comments:
NOT INCLUDED IN THE FINAL REPORT WERE THE PIPE AND OPEN
DITCH THROUGH THE INDIANA SEAL PROPERTY PER INITIAL
REPORT.



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

March 6, 1990

TO: Hamilton County Drainage Board

RE: W.R. Fertig Drain, Wood Park, Section 1 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for Section 1 of the Wood Park Arm, W.R. Fertig Drain.

I have reviewed the submittals and petition and have found each to be in proper form. At this time, Section 1 has been divided into two sections for recording purposes. Section 1-A has been recorded previous to this report. Section 1-B will be recorded at a later date. Although the two portions of Section 1 was not recorded as one, the drainage plan is being constructed as one. Therefore, this report will treat Section 1 as a homogeneous unit.

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 benefitted. The drain onsite on Section 1 will consist of the following:

6" SSD	4600 FT	18" RCP	240 FT
12" RCP	125 FT	24" RCP	400 FT
15" RCP	1668 FT	30" RCP	130 FT

The offsite system will consist of the following lengths:

15" RCP	450'
36" CMP	20'
24" RCP	215'
open swale with concrete swale	315'
open swale with grass bottom	420'

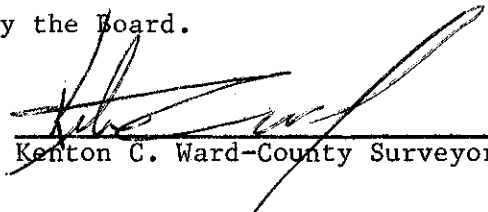
The total length of the drain will be 8583 FT.

The regulated drain shall include all sections of the SSD along streets as shown on the attached plans. The offsite portion shall include the storm sewer on the south side of 116th Street and the swale with concrete bottom on the north side of 116th Street in front of PSI. These are shown on the plans for Wood Park, Section 1. The swale on the north side of 116th Street in front of Indiana Seal which continues east will also become part of the drain. The pipe under the entrance to Indiana Seal, a short open swale area at its outlet, a section of pipe entering the lake and the lake outlet will be included as regulated drain. These are shown on the attached plans for Indiana Seal, prepared by Everett I. Brown.

The lake common area within the Wood Park, Section 1 plat is not a part of the regulated drain. The maintenance of the lake will be the responsibility of the Home Owners Association. The outlets and inlets along the lake banks will be part of the regulated drain. Also, the lake located on the Indiana Seal property will not be part of the regulated drain. The above mentioned criteria for the Wood Park Lake will hold true for this lake also.

At present, the parent tract for this Section 13-01-00-00-001, 30, 438Ac is assessed 9.4Ac to the Fertig. Section 1-A will occupy 5.4 Acres which are currently assessed to the Fertig. I have reviewed the plans for the drain and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. The W.R. Fertig Maintenance Assessment is \$2.00 per acre, with a \$6.00 minimum. This tract is presently assessed \$10.80 annually for the maintenance. For the portion to be platted with Section 1-A, the new assessment for the tract with this section will be \$ 157.26. Both PSI and Indiana Seal are currently assessed for maintenance and those assessments shall remain as is.

I recommend a hearing be set for May 1990. I also recommend that if approved at the hearing, the non-enforcement be approved by the Board.


Kenton C. Ward—County Surveyor

KCW/jb



PAUL I. CRIFE, INC. 7172 Graham Road

Indianapolis, Indiana 46250

(317) 842-6777
FAX (317) 841-4798

February 1, 1989

PIC Job #87367-40000

Hamilton County Surveyor
942 Maple Avenue
Noblesville, IN 46060

Attention Mr. Kent Ward

RE: Wood Park - Sections 1 & 2

Dear Kent:

Enclosed please find the following items:

- 1) Nonenforcement forms - Sections 1 & 2
- 2) Copy of the Detention Pond calculations
- 3) Copy of Pipe Sizing calculations
- 4) Cost Estimates - Sections 1 & 2

The bond provided in the total amount of \$129,379 for both sections can be broken down as 70.5 percent for Section 1 (\$91,212.20) and 29.5 percent for Section 2 (\$38,166.80).

Please review the enclosed information. If you need any additional information, please contact me.

Sincerely,

PAUL I. CRIFE, INC.

Li Ching Wu
Li-Ching Wu

h1

Enclosures

BANK ONE

BANK ONE, INDIANAPOLIS, NA
Indianapolis, Indiana 46277

January 25, 1989

Irrevocable Credit No. S-3315-G
Hamilton County Drainage Board
C/O Auditors Office
Noblesville, Indiana 46060

Gentlemen:

We hereby authorize you to value on us for the account of
Wood Park Development, Inc.
5501 East 71st St., Track 4
Indianapolis, Indiana 46220

For a sum or sums in U.S. Dollars not exceeding a total of: One Hundred Twenty
Nine Thousand Three Hundred Seventy Nine and 00/100.
*****\$129,379.00

Available by drafts at sight drawn on Bank One, Indianapolis, NA, Indianapolis,
Indiana.

PURPOSE: To provide evidence of funds for completion assurance of storm
drainage improvements at Wood Park Subdivision, Carmel, Indiana.

Drafts must be presented to the drawee not later than January 25, 1990 at our
counters.

All drafts must be marked, "Drawn under Bank One, Indianapolis, NA,
Indianapolis, IN Credit No.S-3315-G".

We hereby agree with you that drafts drawn under and in compliance with the
terms of this credit shall be duly honored on due presentation to the drawee.

This credit is subject to Uniform Customs and Practice for Documentary Credits
(1983 Revision) ICC Publication No. 400.

Yours very truly,

Bank One, Indianapolis, NA


Authorized Signature



MAY 0 5. 89

HAMILTON COUNTY DRAINAGE BOARD

SECRETARY

CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: COUNTY SURVEYOR'S OFFICE, HAMILTON COUNTY
ATTN: Mr. Kenton Ward
FROM: Paul I. Cripe, Inc., Engineers
SUBJECT: Woodpark Subdivision Sec. 1A & 2

I hereby certify that

- 1) I am familiar with the plans and specifications for the above referenced project,
- 2) I have personally observed the completion of the above referenced project, and
- 3) To the best of my knowledge, information and belief, the above referenced project has been performed and completed in conformity with all plans and specifications, except off-site ditch improvements have not been completed; onsite seeding, soil erosion and minor grading along the east property line are not complete. The contractor has been notified and is in the process of completing these items.

Signature Christopher R. White Date 11/22/89

Type or Printed Name Christopher R. White

Business Address 7172 Graham Road
Indianapolis, IN 46250

Telephone 842-6777

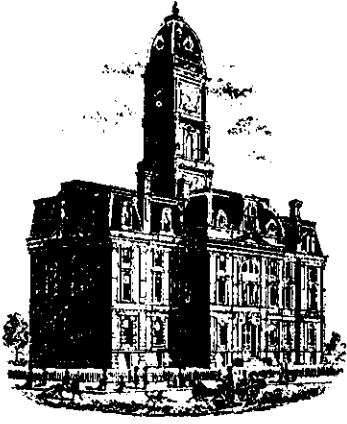
Seal



Indiana Registration Number

20491

ADM:t1
1/13/84



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

To: Hamilton County Drainage Board

April 1, 1998

Re: **W.R. Fertig Drain: Wood Park Sec. 1 Arm**

Attached are as-builts, certificate of completion & compliance, and other information for Wood Park Sec. 1A, 1B, & Offsite. 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 March 6, 1990. The changes are as follows:

12" RCP - 100 ft 18" RCP - 240 ft
15" RCP - 1470 ft 24" RCP - 400 ft
30" RCP - 130 ft OFFSITE - 1420 ft
6" SSD - 4600 FT

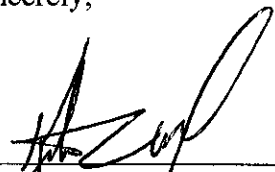
The length of the drain due to the changes described above is now **7,810 feet**.

The non-enforcement was approved by the Board at its meeting on May 21, 1990 and recorded under instrument #9012353.

The bond or letter of credit from Bank One, number s-3315-g; dated January 25, 1989; in the amount of \$129,379.00; has expired.

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

Asbuilt Structures From Plans dated 12-30-88

Project: WOOD PARK SECS. 1A & 1B

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

601	-	842.00				
602	846.93	842.78	18"	155'	-	
602	846.93	842.78				
603	847.00	843.01	15"	45'	✓	
603	847.00	843.01				
605	845.7	843.54	15"	178'	✓	
602	846.93	842.80				
606	846.87	?	12"	30'	✓	
607	-	842.00				
608	845.86	842.08	18"	25'	✓	
608	845.86	842.08				
609	845.86	842.17	18"	30'	✓	
609	845.86	842.17				
610	845.00	842.53	15"	120'	✓	
611	-	842.00				
612	847.47	841.83	15"	35'	✓	
612	847.47	841.73				
613	847.47	841.58	15"	30'	✓	

6" SSD Streets:

Total: _____

RCP Pipe Totals:

6" SSD Lots:

Total: _____

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: WOOD PARK SEC. 1A & 1B

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

613	847.47	841.48				
614	846.1	840.73	15"	150'	✓	
614	846.1	840.63				
615	843.5	839.12	15"	302'	✓	
619	848.50	842.56				
619	—	842.00	30"	130'	✓	
619	848.50	842.16				
621	?	843.13	24"	55'	✓	
621	?	843.23				
622	?	843.45	24"	40'	✓	
622	?	843.55				
EXIST.	—	843.66	24"	25'	✓	
621	?	843.23				
623	?	843.50	12"	40'	✓	
619	848.50	842.66				
620	846.0	843.31	15"	175'	✓	
628	—	842.00				
629	847.40	842.76	24"	120'	✓	

6" SSD Streets:

Total: _____

RCP Pipe Totals:

6" SSD Lots:

Total: _____

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: Wood Park Sec. 1A: 1B

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

629	847.40	842.76				
630	846.99	843.74	24"	1100'	✓	
630	846.99	844.24				
631	849.20	844.69	15"	203'	✓	
631	849.20	844.69				
632	846.40	844.96	15"	117'	✓	
632	846.40	844.96				
633	847.60	845.00	15"	15'	✓	
633	847.60	845.00				
634	847.60	845.09	12"	30'	✓	
630	846.99	844.24				
635	846.99	844.34	10"	30'	✓	
635	846.99	844.34				
634	-	844.80	15"	100'	✓	

6" SSD Streets:

	1600
change in Ent.	-550

Total: 4050

6" SSD Lots:

Total: _____

RCP Pipe Totals:

12"	100'
15"	1470'
18"	240'
24"	400'
30"	130'

= 2340.0

Other Drain:

Total Length of Drain: 6390

Asbuilt Structures

Project: WR FERTIG: WOODPARK SEC 1A & B -OFFSITE ASBUILTS

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

626	845.59	842.99				
625	844.89	839.54	15	175		
625	844.89	839.54				
615	844.47	838.87	15	23.5		
615	844.47	838.87				
624	844.87	838.42	15	23.1		
624	844.87	838.42				
617	840.84	836.84	15	328.5		
617	840.84	836.84				
616	839.99	835.74	15	54.9		
616	839.99	835.74				
616A		836.17	12	9.5		
616	839.99	835.74				
616B		835.24	24"X15"	70.5		

6" SSD Streets:

Total: _____

6" SSD Lots:

Total: _____

RCP Pipe Totals:

Other Drain:	
concrete swale	315
swale	420

Total Length of Drain: 1420



KIRKPATRICK



3801 E. 82nd -
Indianapoli

*Asbuilt's
FOR
SEC. 1
Make changes to
Figures & write
Draft Report.*

Date: Oct. 3, 1994

To: Jerry Linton

Company: Hamilton County 5

Fax Number: 776-962 L.D. Code: _____

From: Joe Nicolucci VoiceMail 372-6707

Total pages including cover sheet: 3

Comments: As-built drawings for Woodpark storm sewer
drains. I apologize for taking so long. Please call me
or Mitch Coxs at Weike Engineers if you have any
questions.

Should you have any difficulty in receiving this transmission, please call
(317)595-2100 as soon as possible. Thank you!

Our fax number is (317)595-6200

Kirkpatrick & Associates, Inc. - Kirkpatrick Development, Inc.
Kirkpatrick Custom Homes

BENCHMARK

RM27 Elevation: 829.43

Chiseled square on the southern downstream headwall of the Louisville and Nashville Railroad culvert over Carmel Creek.



Scale: 1"=30'

GULFORD ROAD

116TH STREET

STORM M.H. #6
Paved Over w/ Asp.

STORM M.H. #5
Paved Over w/ Asp.

WOODVIEW EAST DRIVE

BEEHIVE INLET
TC=845.59
INV=842.99

175'

CURB INLET #2
TC=849.87
INV=844.47

WOOD PARK - SECTION ONE "B"



Allan H. Weihe
ALLAN H. WEIHE-REG P.E.-IN #8827
9/29/94

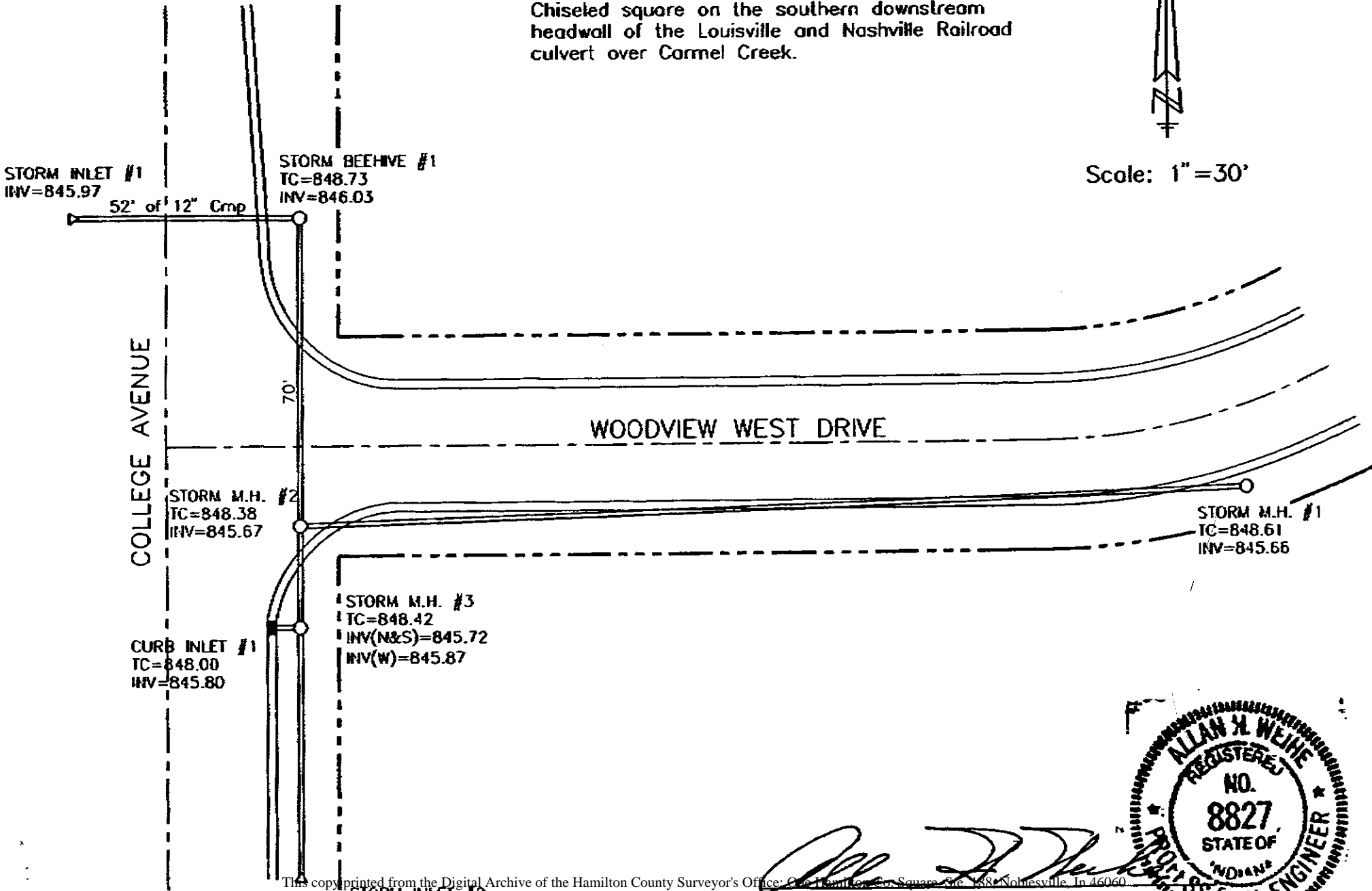
BENCHMARK

RM27 Elevation: 829.43

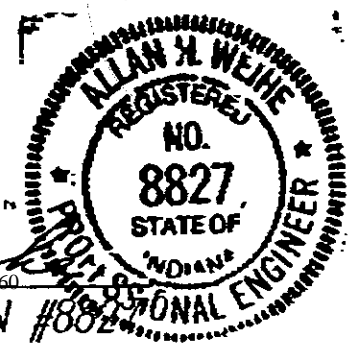
Chiseled square on the southern downstream headwall of the Louisville and Nashville Railroad culvert over Carmel Creek.



Scale: 1" = 30'



This copy printed from the Digital Archive of the Hamilton County Surveyor's Office: One Hamilton Center Square, Suite 1388, Noblesville, In 46060



Allan H. Weihe
ALLAN H. WEIHE-REG P.E.-IN #8827

9/29/94

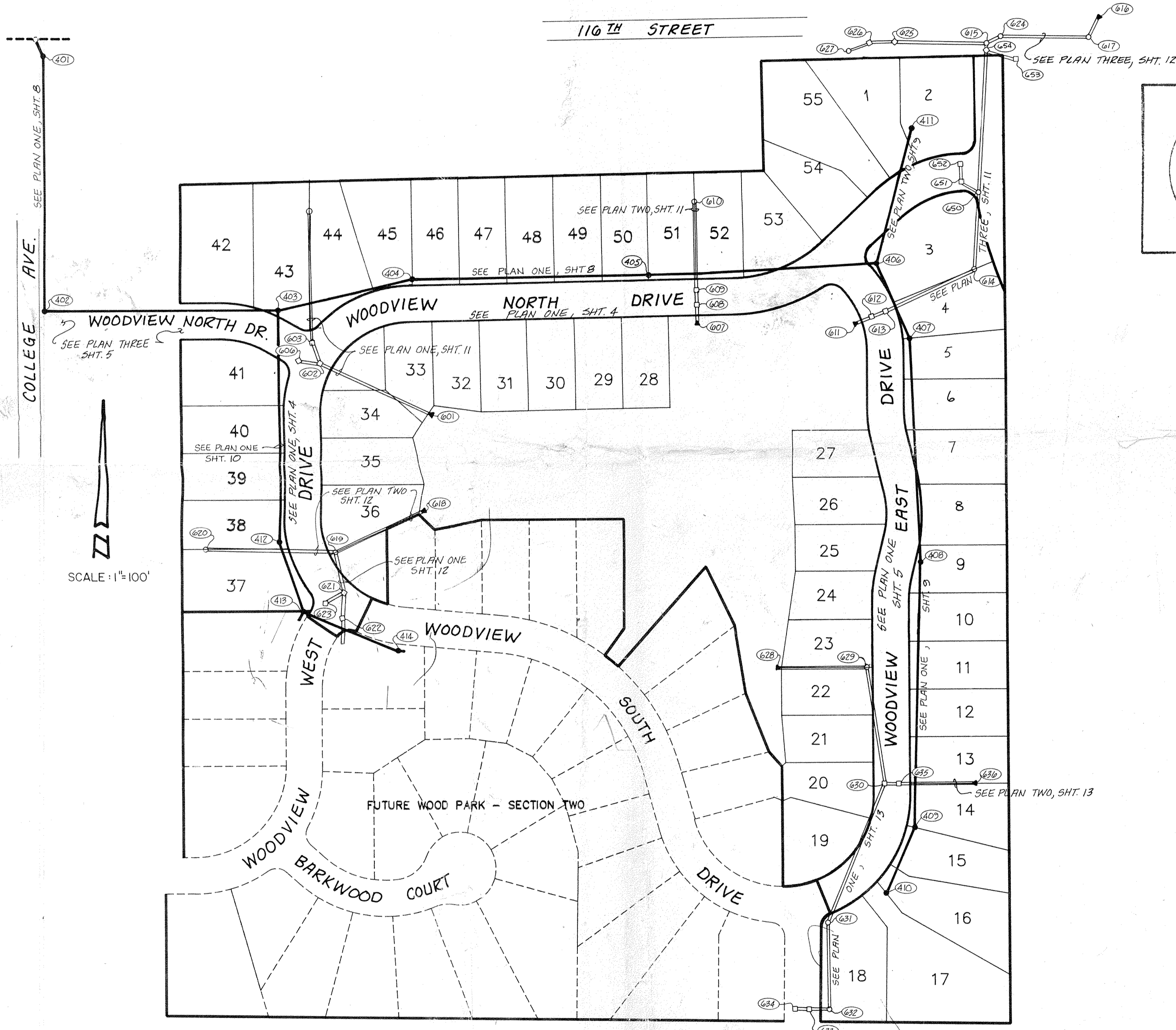
STORM INLET #2
INV=846.10

CONSTRUCTION PLANS FOR WOOD PARK SECTION ONE

Record Drawings Sanitary & Storm Sewers
FIELD OBSERVATIONS
WOODPARK SECTION 1A and SECTION 2

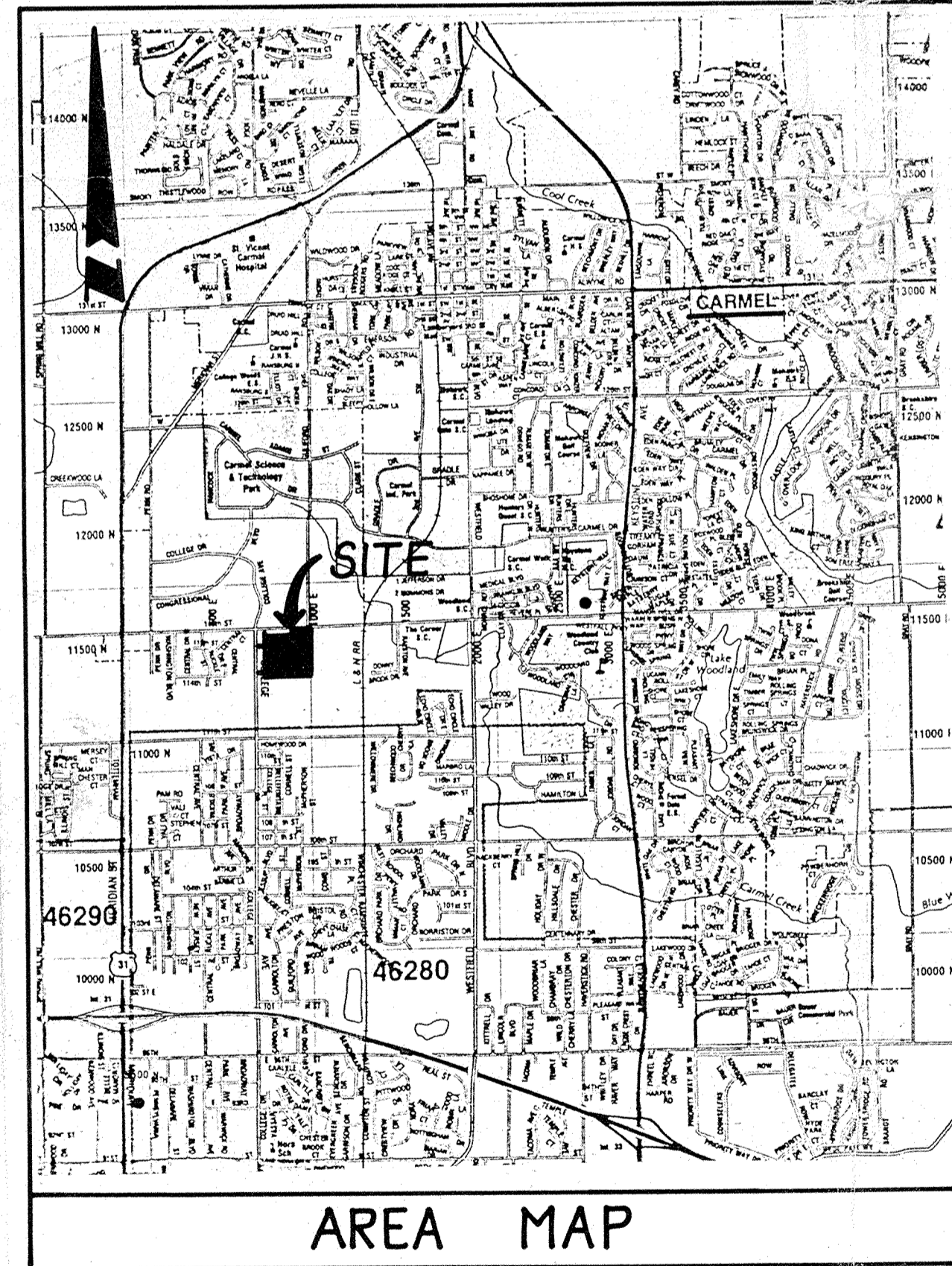
- The following is a list of observations made at site inspection on November 10, 1989.
1. Top surface course of asphalt not installed. To be installed at a later date.
 2. Some swales and disturbed areas along streets need to be seeded.
 3. Straw bale dams and soil erosion control needs to be installed.
 4. Grading along East property line needs to be completed.
 5. Street needs to be cleaned.
 6. Off-site paved ditch needs to be installed.
 7. Section 1B is not complete.
 8. Widening along College is not complete.

NOV 27 1989
FILED



Hamilton County, Indiana
This information was gathered into the Hamilton County Information System. This is considered an official record of this GIS.
Entry Date: 12-17-89
Entered by: JCH

CERTIFIED
Christopher R. White
Paul I. Cripe, Inc.
PROFESSIONAL ENGINEER
KEVIN KIRKPATRICK
WOODPARK DEVELOPMENT INC.
Date: 11-14-89



INDEX	
SHT.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN N-1/2
3	SITE DEVELOPMENT PLAN S-1/2
4	STREET PLAN & PROFILE
5	STREET PLAN & PROFILE
6	STREET DETAILS
7	ENTRANCE DETAILS
8	SANITARY PLAN & PROFILE
9	SANITARY PLAN & PROFILE
10	SANITARY PLAN & PROFILE
11	STORM PLAN & PROFILE
12	STORM PLAN & PROFILE
13	STORM PLAN & PROFILE
14	STANDARD DETAILS
15	STANDARD DETAILS & SPECIFICATION
16	EROSION CONTROL PLAN
17	EROSION CONTROL PLAN
18	WATER PLAN N-1/2
19	WATER PLAN S-1/2
20	LANDSCAPE PLANTING DETAILS
21	LANDSCAPE PLANTING PLAN
22	LANDSCAPE PLANTING PLAN
23	LANDSCAPE PLAN - ENTRANCE DETAIL

BENCHMARKS	
TBM #1	West Bolt Of Fire Hydrant @ Northwest Corner Of 116 th St. & College Ave. ELEV. 851.28
TBM #2	LARGE HINGENAIL ON EAST SIDE OF PWP APPROX. 455' SOUTH OF 116 th ST ALONG WEST SIDE OF COLLEGE AVE. ELEV. 852.12

REVISIONS	
11-9-87	REV SHT 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 PER DRAFT. CK.
12/15/87	REV. PER DRAFT CHK. DJS
11-22-87	REV. SHT. 1-19 PER DRAFT. CK. GAD
12-28-88	REV. SHT. 24.5 ADD MOUND. REV. SMT. RDS
1-12-89	REV. SHTS. 2, 3, 4, 6, 14, 17 PER CHECK. RDS
5-23-89	REV. SHTS. 2, 3, 7
7-25-89	REV. SHTS. 1-7 PER STREET CHANGE
11-10-89	ADDED SHEET 23 PER REV. I

DON'T DIG BLIND
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

OWNER / DEVELOPER
WOODPARK DEVELOPMENT INC.
5501 E. 71st. STREET, TRACK 4
INDIANAPOLIS, INDIANA 46220
(317) 253-4358

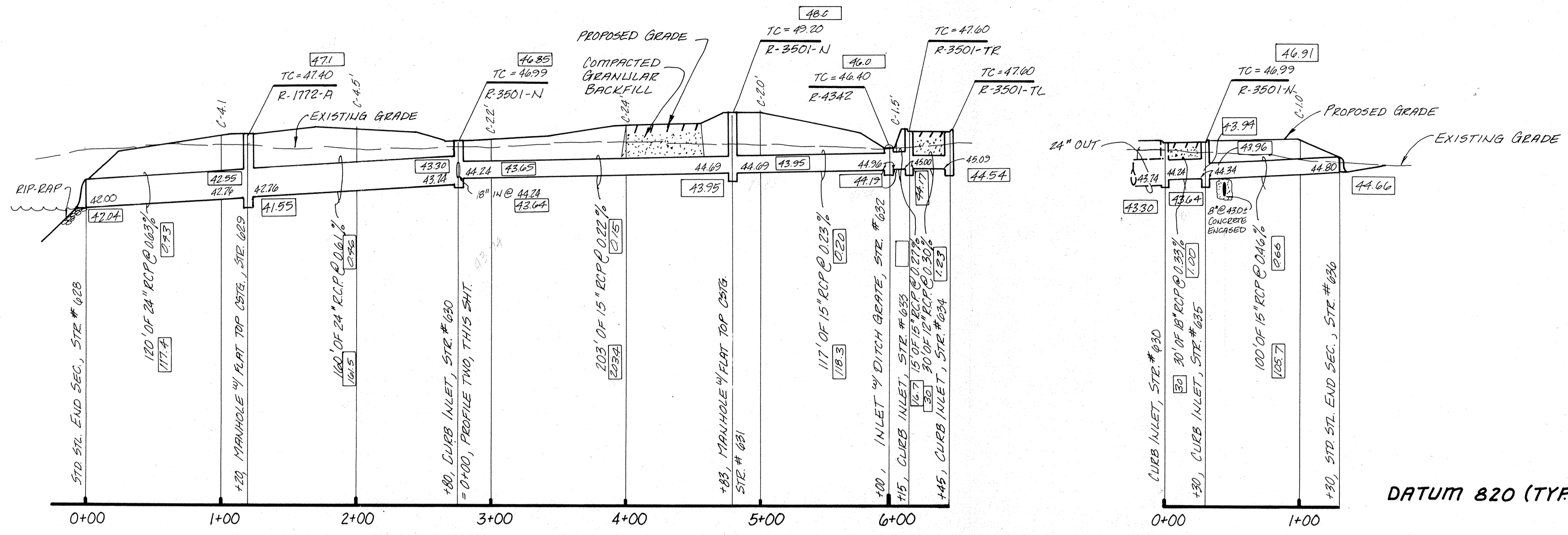
CERTIFIED BY
Christopher R. White
No. 20491
STATE OF INDIANA
REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS
11-9-87	REV. PER DRAFT. CK. / NEW SHEET, SHT. NO. ETC.
11-22-87	REV. SITE PLAN
9-25-89	REV. WOODVIEW N. DR.

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777
• CIVIL ENGINEERING
• LAND SURVEYING
• ARCHITECTURE
• LAND PLANNING

TECH. CHK. CRW
DFTNG. CHK.
DRAWN BY GAD
SCALE AS NOTED
DATE 9-25-87
CLIENT WOOD PARK - SEC-1
DRAWING TITLE COVER SHEET

DWG. TYPE	FILE NUMBER
87367-40000	OF

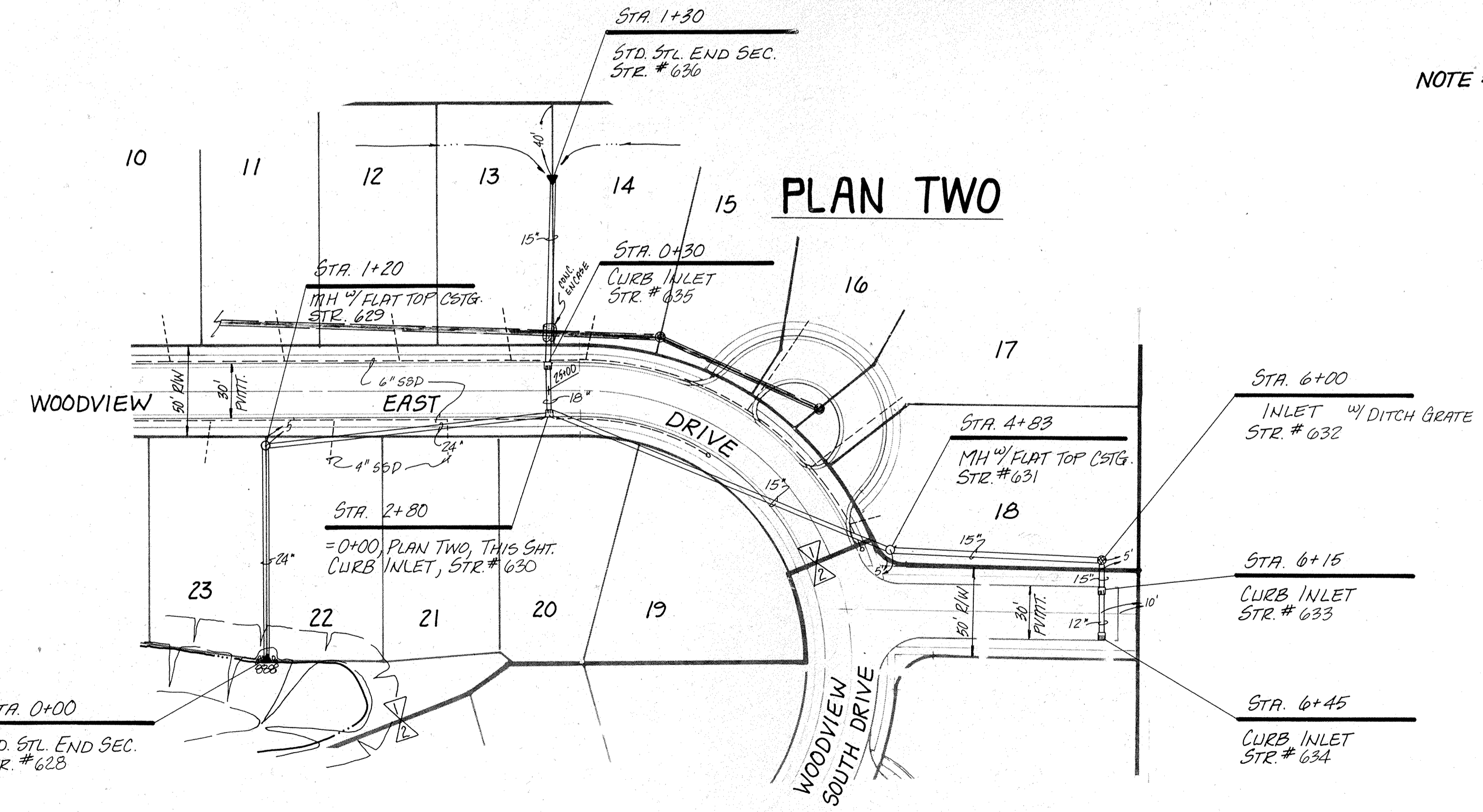


PROFILE ONE
HORIZ. N.T.S.

PROFILE TWO

DATUM 820 (TYP)

NOTE: ALL CUTS SHOWN ARE APPROXIMATE TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
CASTING N^{OS} SHOWN ARE TAKEN FROM NEENAH FOUNDRY CO. CATALOG.

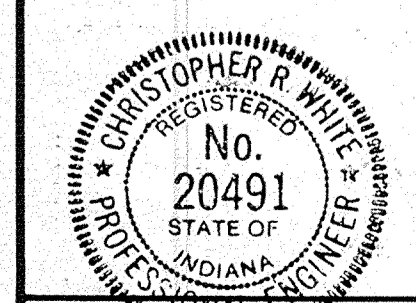


PLAN ONE

PLAN TWO

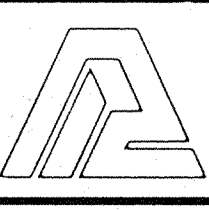
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
Entry Date: 12-16-03
Entered by: JCH

DON'T DIG BLIND
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA



CERTIFIED BY
Christopher R. White
12-1-88
DATE

REVISIONS
11-9-87 REV. PER DRAFT CK., NEW SHT.
11-22-88 REV. PER DRAFT CL.
10-10-89 AS-BUILT INFO



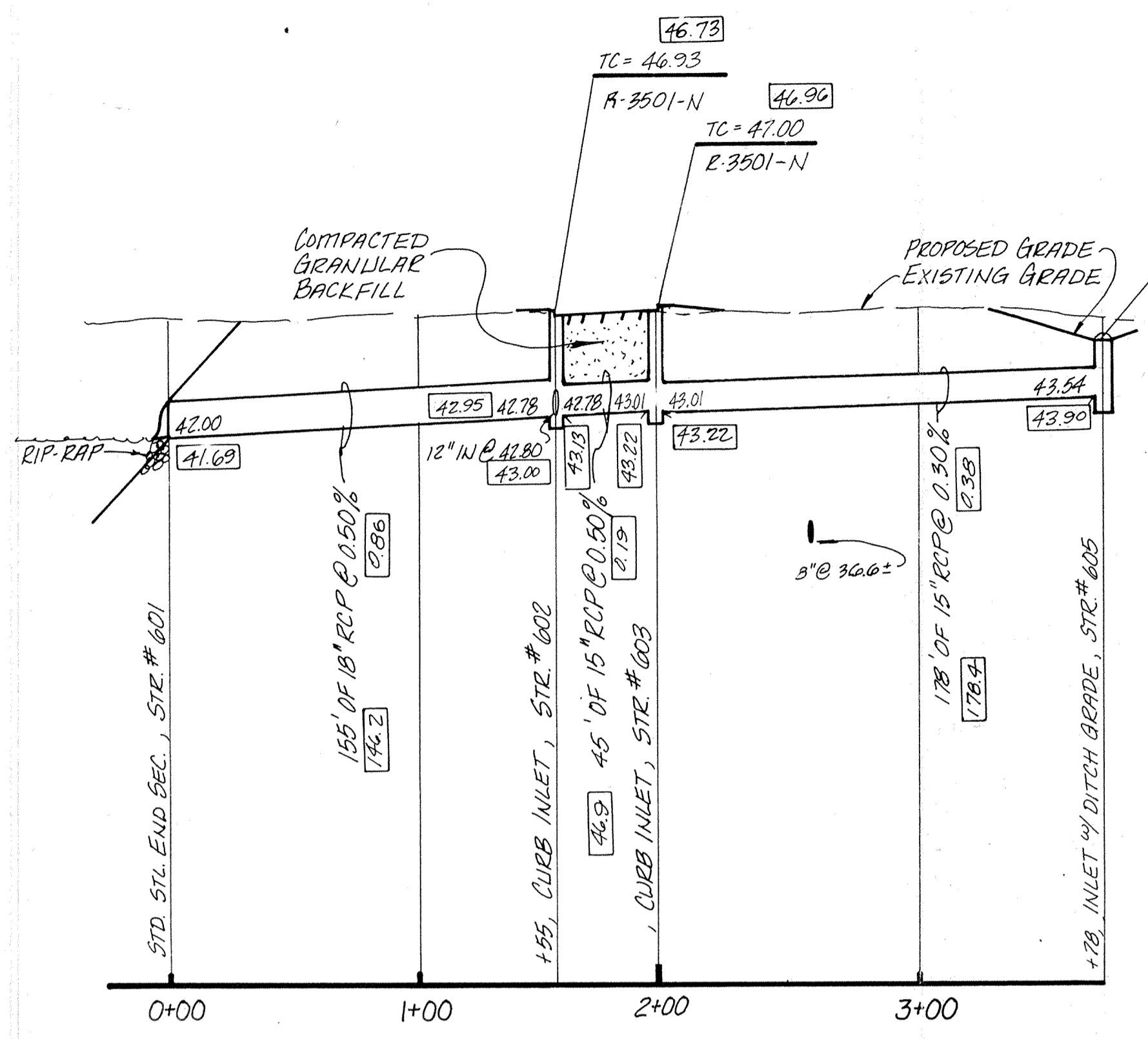
PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
317-842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

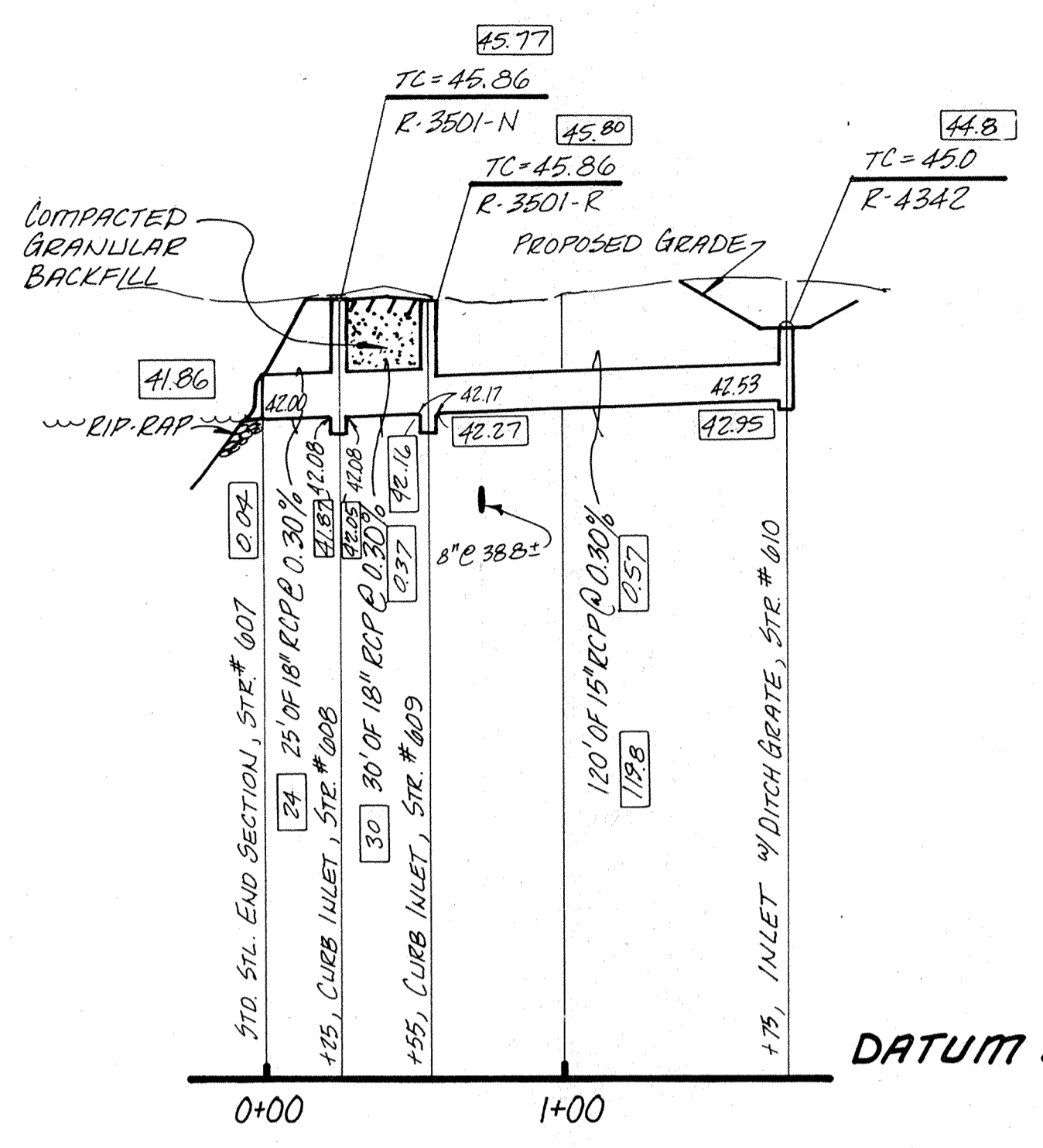
TECH. CHK.	DRAWN BY GSD	SCALE H: 1"=50' V: 1"=5'	DATE 9-25-87	CLIENT WOOD PARK - SEC. 1
DFTNG. CHK.	DRAWING TITLE STORM SEWER ~ PLAN & PROFILE			

RECORD DRAWING

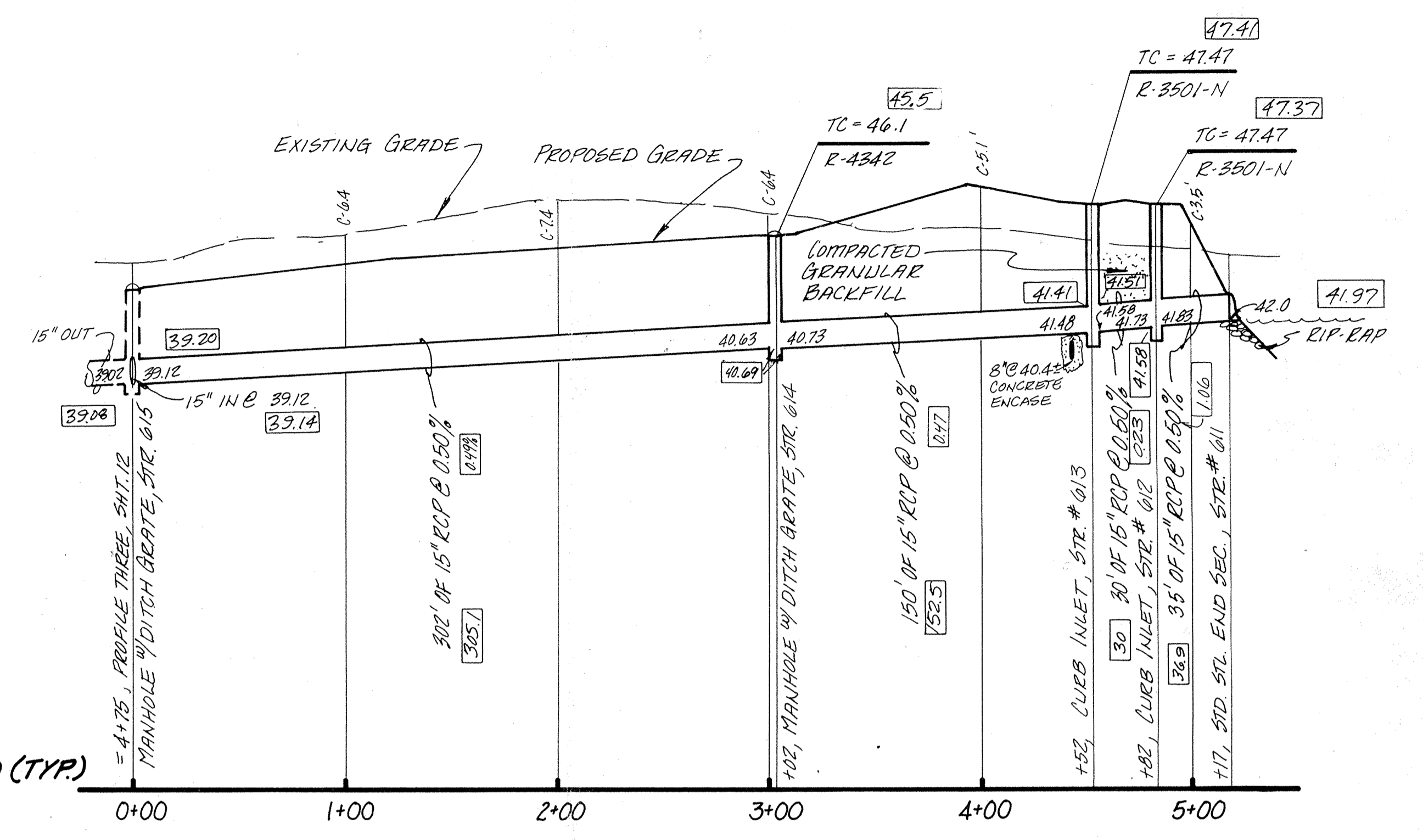
DWG. TYPE	FILE NUMBER	SHEET
		13
JOB NUMBER		OF 23
87367	40000	



PROFILE ONE



PROFILE TWO



PROFILE THREE

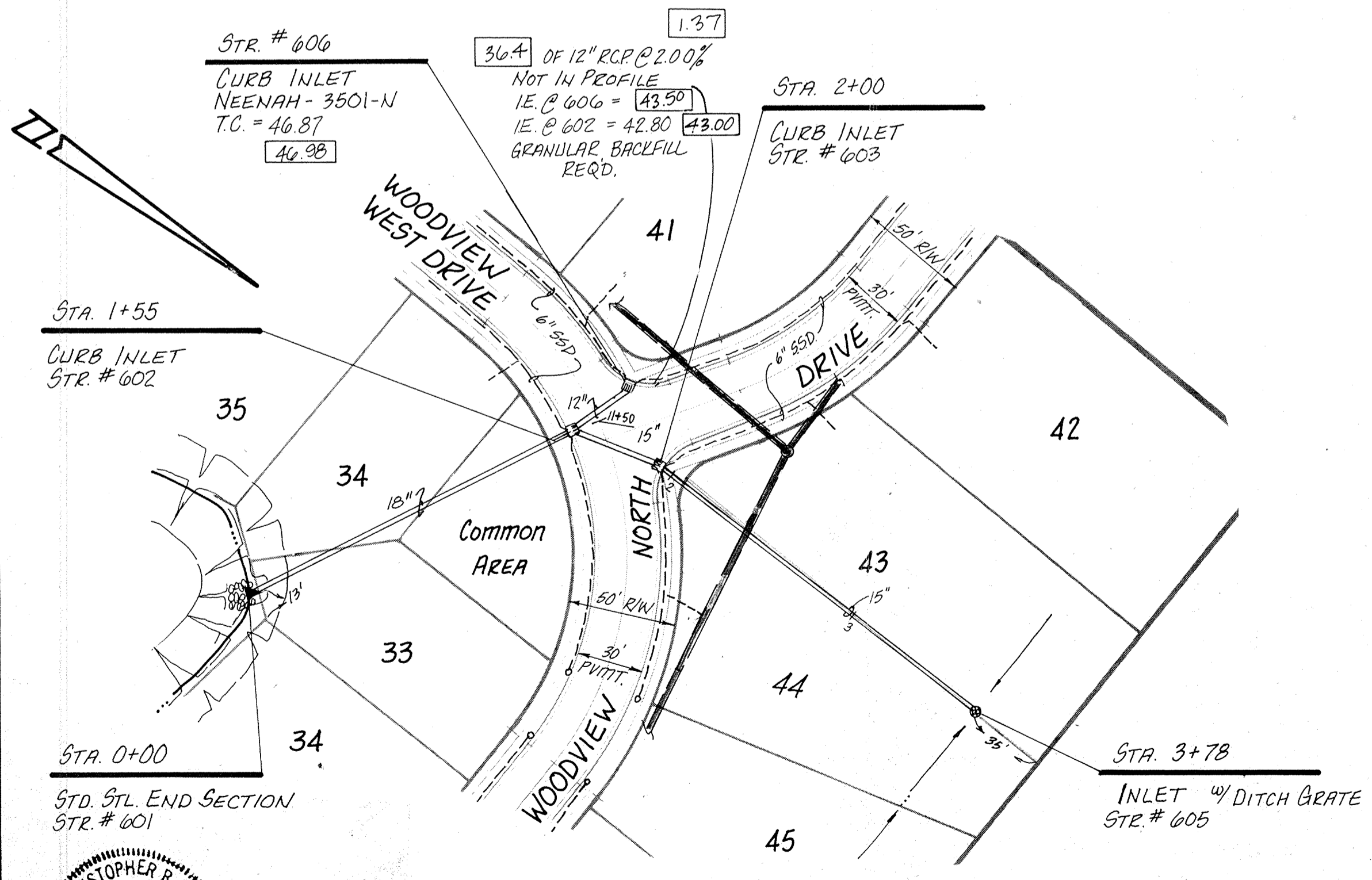
33.33 INDICATES AS-BUILT INFORMATION.

NOTE: ALL CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
CASTING NOS SHOWN ARE TAKEN FROM NEENAH FOUNDRY CO. CATALOG.

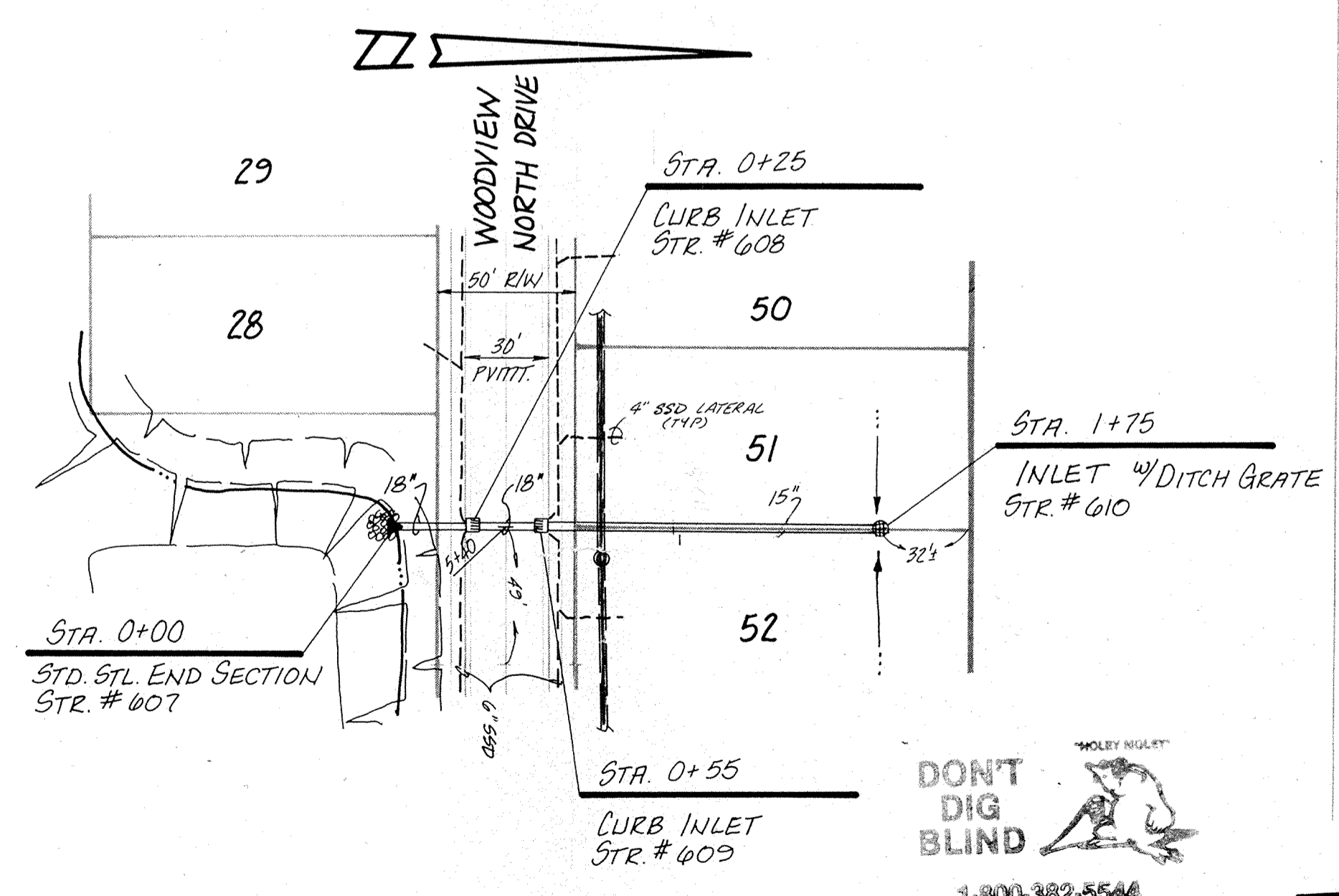
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Entry Date: 12-16-03

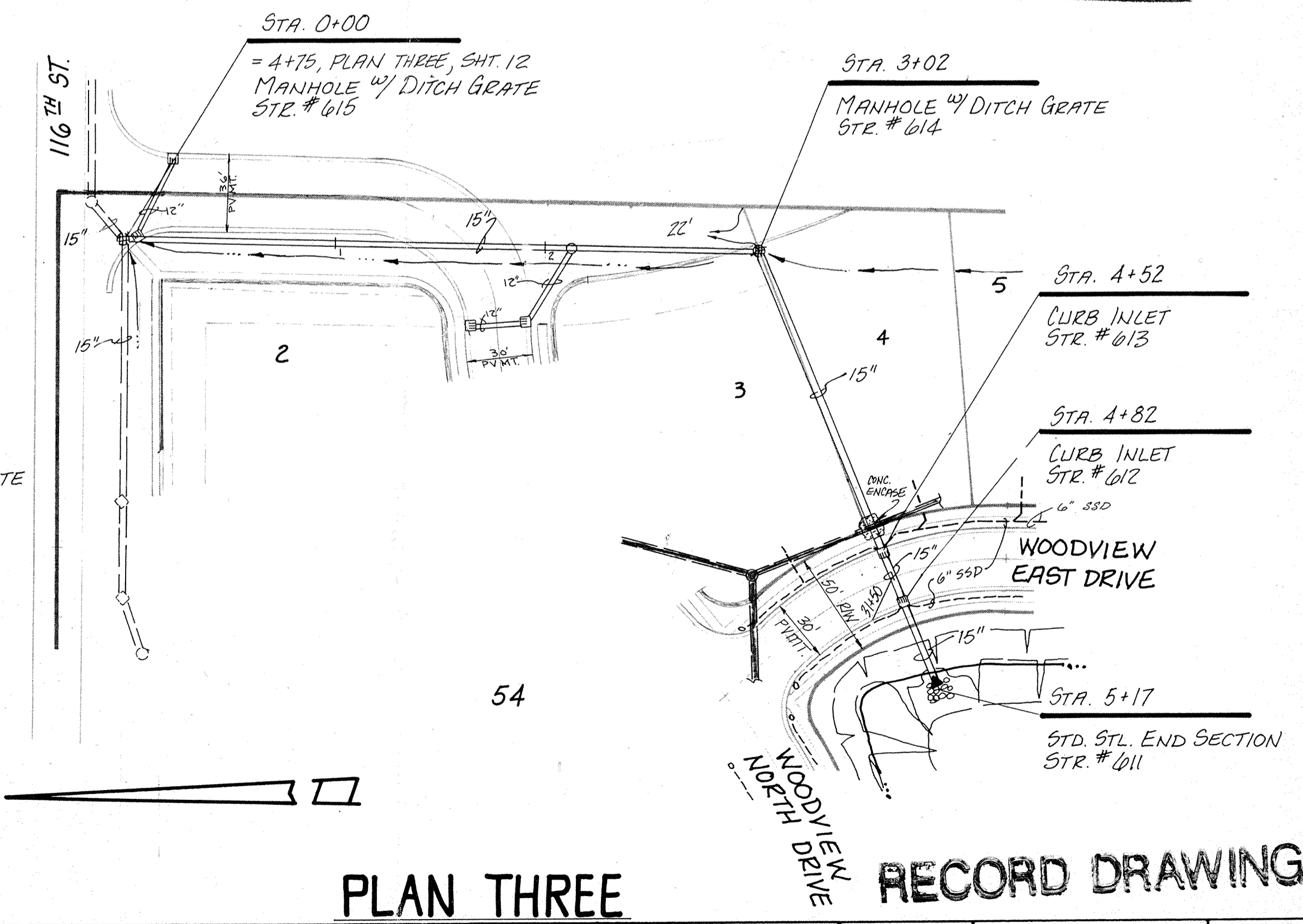
Entered by: JQH



PLAN ONE



PLAN TWO



PLAN THREE

RECORD DRAWING

REGISTERED PROFESSIONAL ENGINEER
No. 20491
STATE OF INDIANA

CHRISTOPHER R. WHITE

DATE: 12-16-03

REVISIONS	DATE
11-9-87 REV. PER DRAFT CL. / NEW SHT.	
11-22-88 OMIT. GMA / REV. P&P PER DRAFT. CL.	
10-10-89 AS-BUILT INFO.	

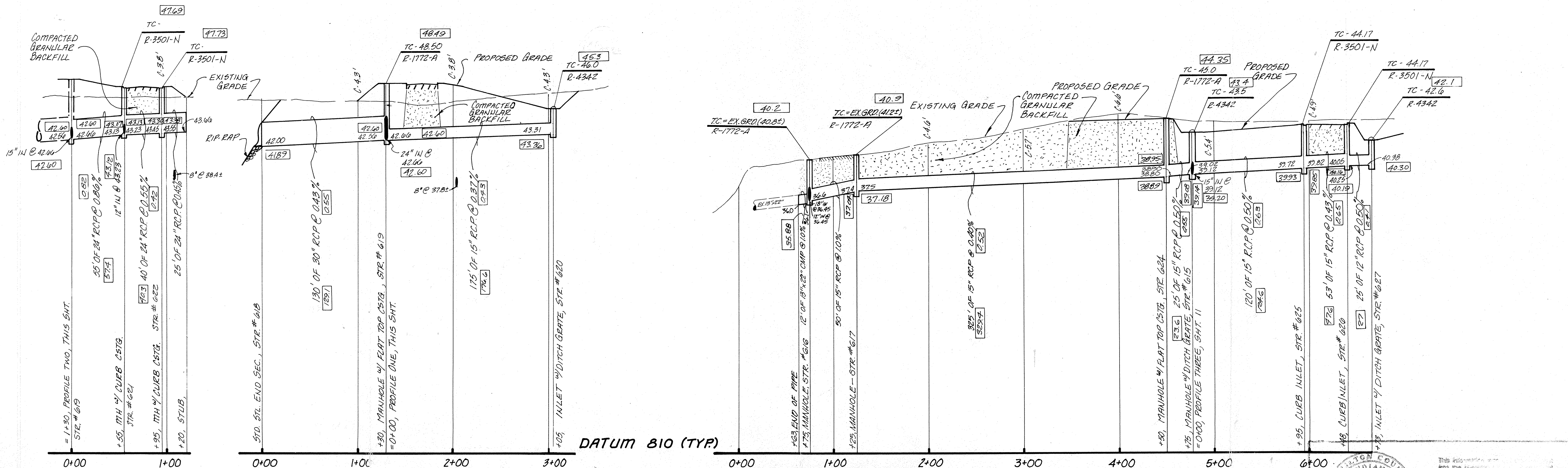
PAUL I. CRIFE, INC.

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.	DRAWN BY GSD	SCALE H: 1" = 50' V: 1" = 5'	DATE 9-25-87	CLIENT WOOD PARK - SEC. I
DFTNG. CHK.	DRAWING TITLE STORM SEWER ~ PLAN & PROFILE			

DWG. TYPE	FILE NUMBER	SHEET
		11
JOB NUMBER		
87367	-40000	OF 23



PROFILE ONE

PROFILE TWO

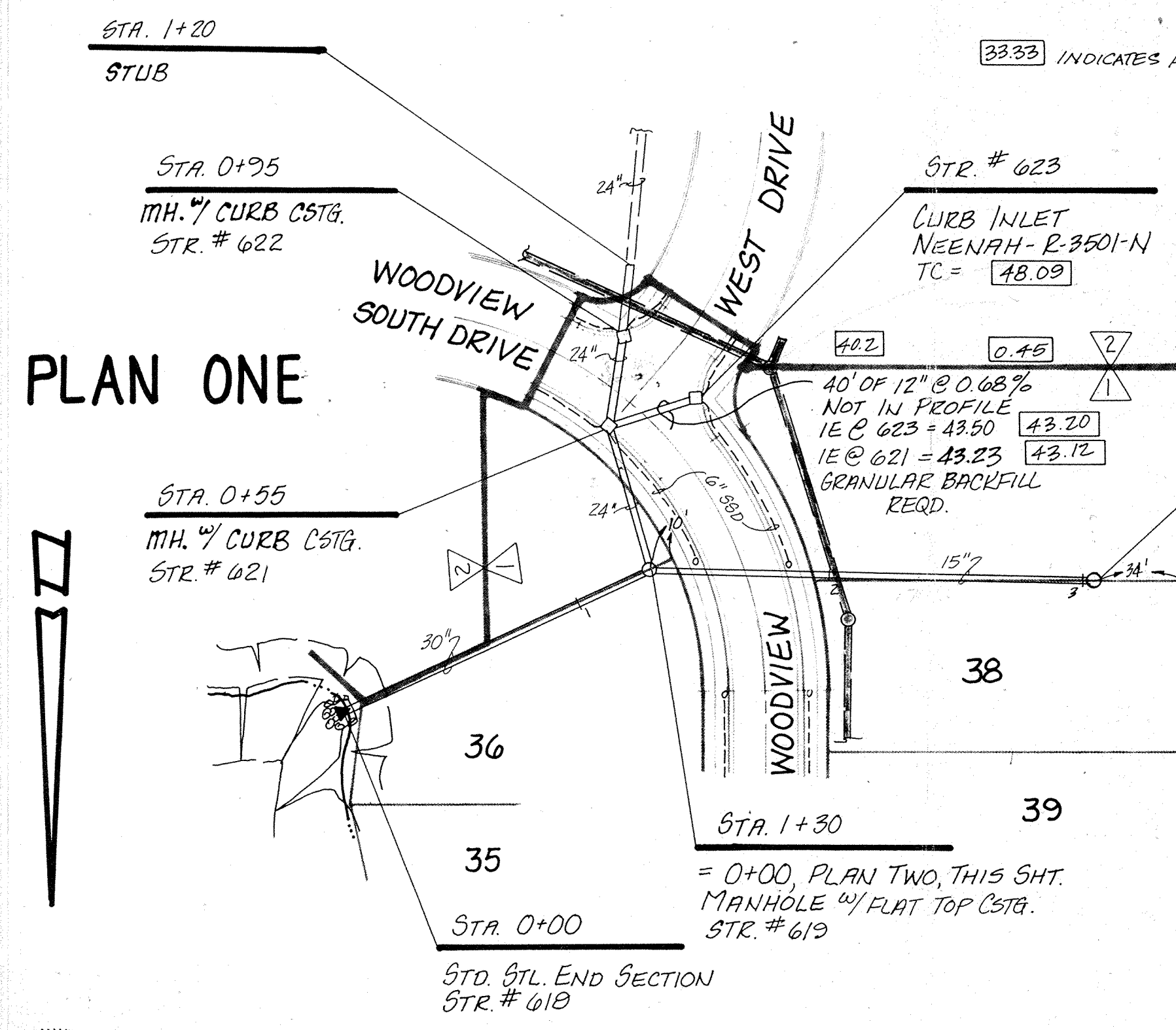
PROFILE THREE

DATUM 810 (TYP)

NOTE: ALL CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
CASTING NOS SHOWN ARE TAKEN FROM NEENAH FOUNDARY CO. CATALOG.

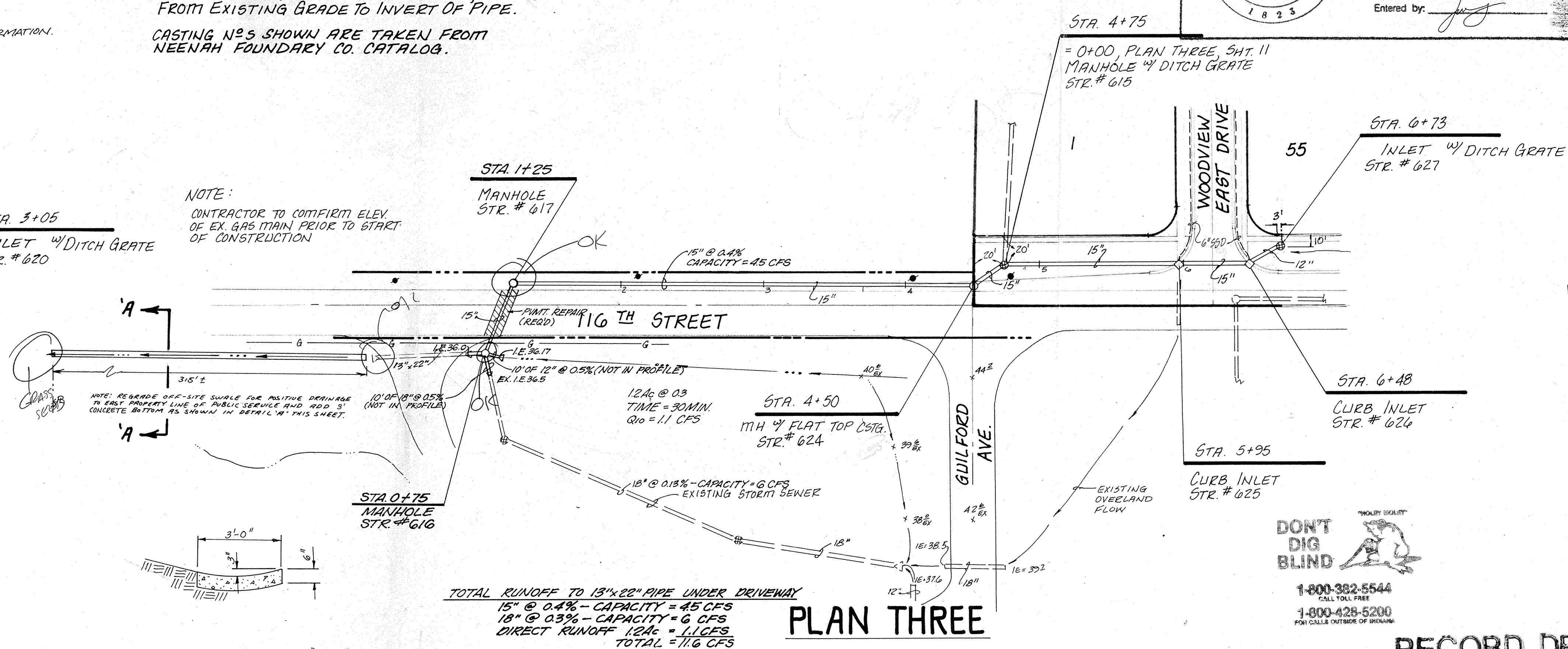


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Entry Date: 12-17-03
Entered by: [Signature]



PLAN ONE

PLAN TWO



PLAN THREE

CONCRETE SWALE X-SECTION "A-A"

TOTAL RUNOFF TO 18"x22" PIPE UNDER DRIVEWAY
15" @ 0.4% - CAPACITY = 45 CFS
18" @ 0.3% - CAPACITY = 6 CFS
DIRECT RUNOFF 12% = 11 CFS
TOTAL = 62 CFS
CAPACITY FOR 18"x22" @ 1.0% = 12 CFS

DON'T DIG BLIND
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA



CERTIFIED BY
Christopher R. White
12-18-03

DATE	REVISIONS
11-9-87	REV. PER DRAFT CL. IN NEW SHT.
12-15-87	REV. PER DRAFT CHK. DRS.
11-22-88	REV. PER DRAFT CL.
10-10-89	AS-BUILT INFO.

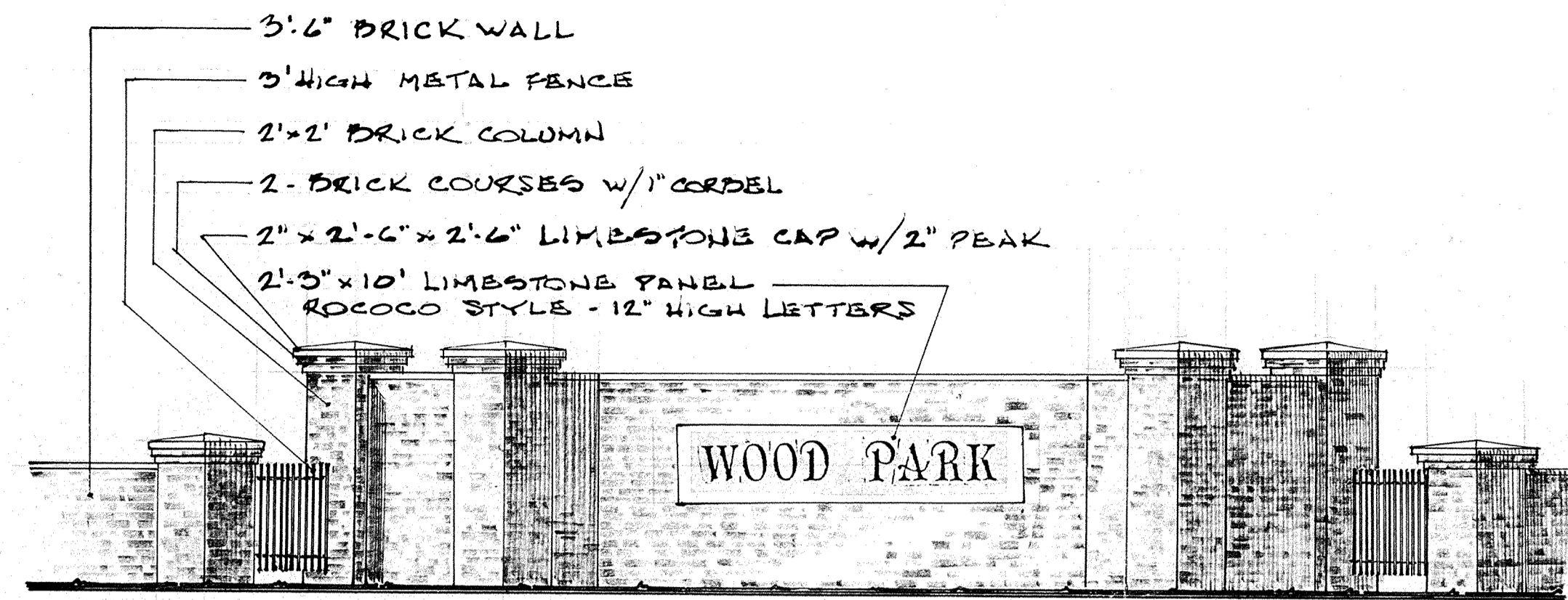
PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

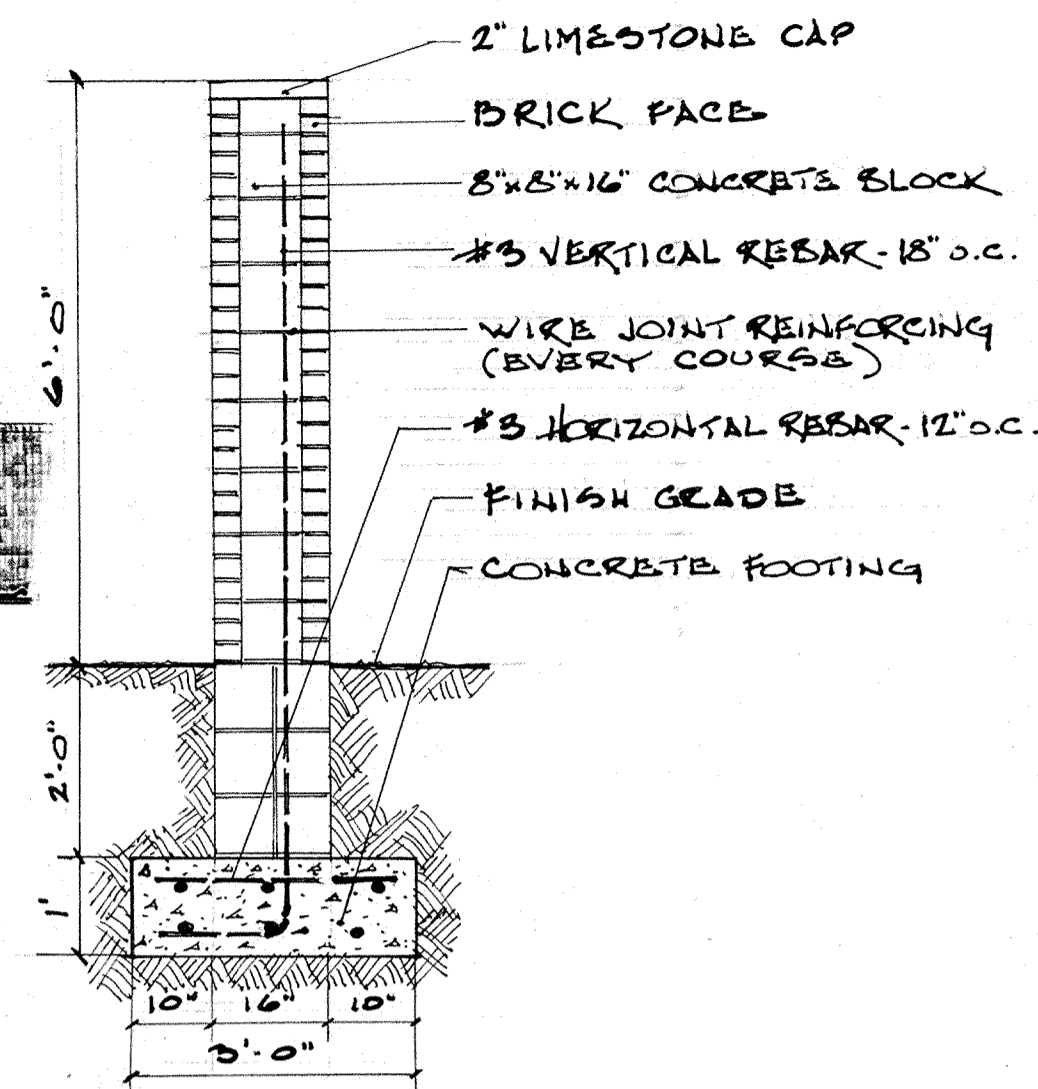
TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
	GD	1" = 30'	9-25-87	WOOD PARK - SEC. 1
DFTNG. CHK.	DRAWING TITLE	STORM SEWER ~ PLAN & PROFILE		

DWG. TYPE	FILE NUMBER	SHEET
		12
JOB NUMBER	87367-40000 OF 23	

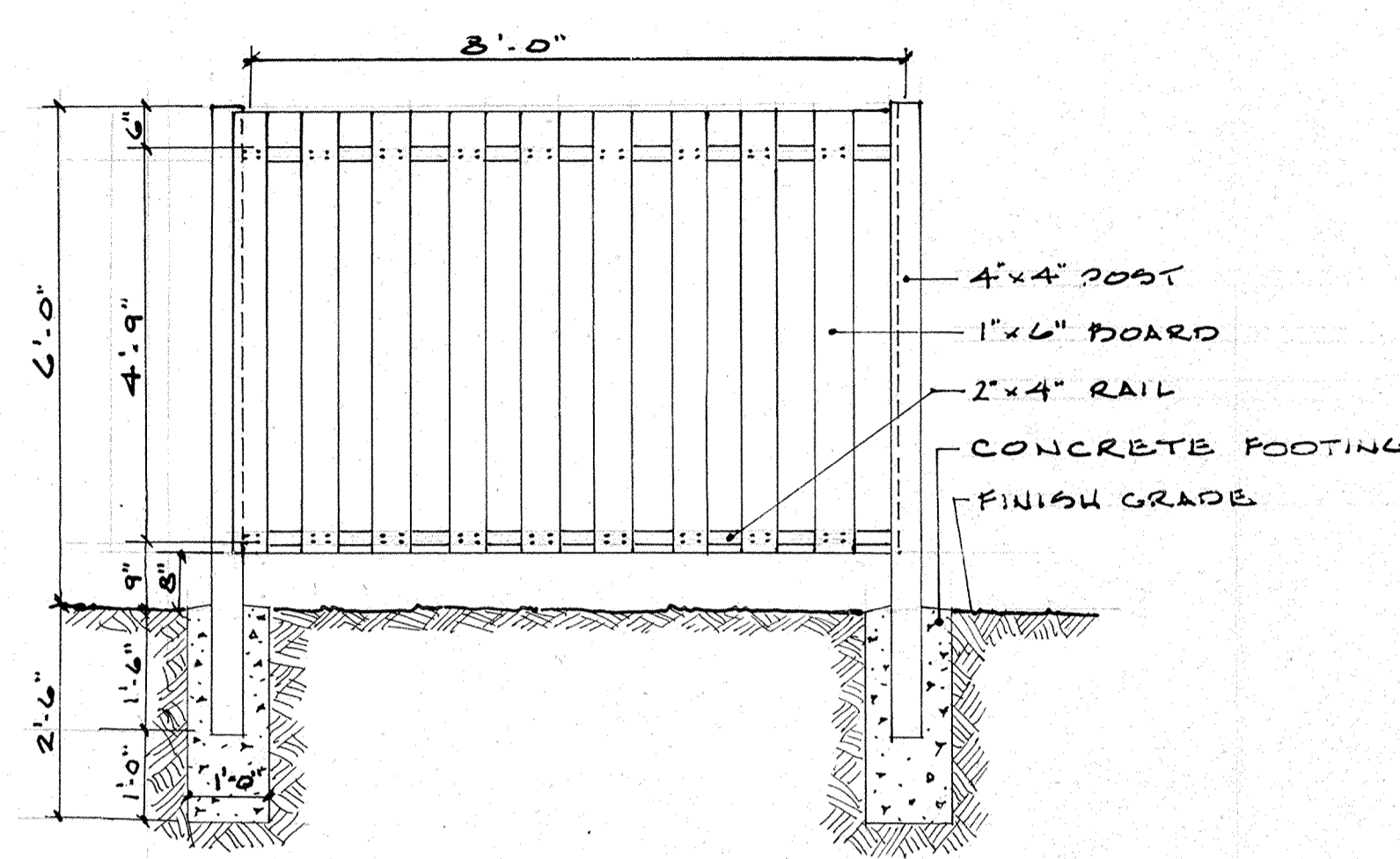
RECORD DRAWING



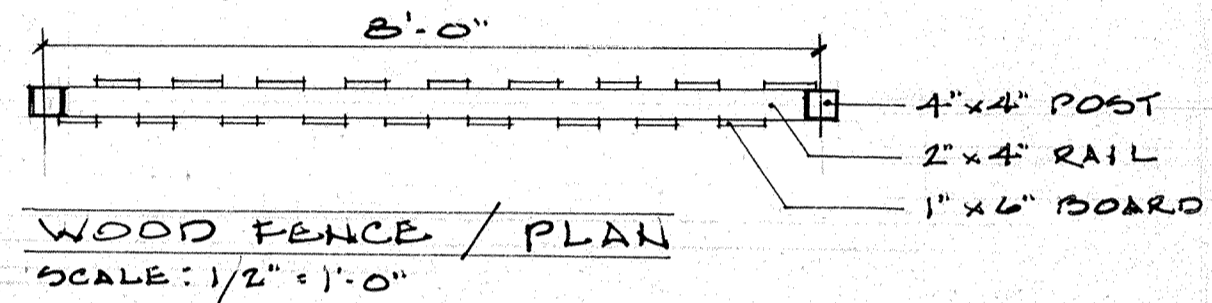
ENTRANCE WALL / ELEVATION DETAIL
SCALE: 1/4" = 1'-0"



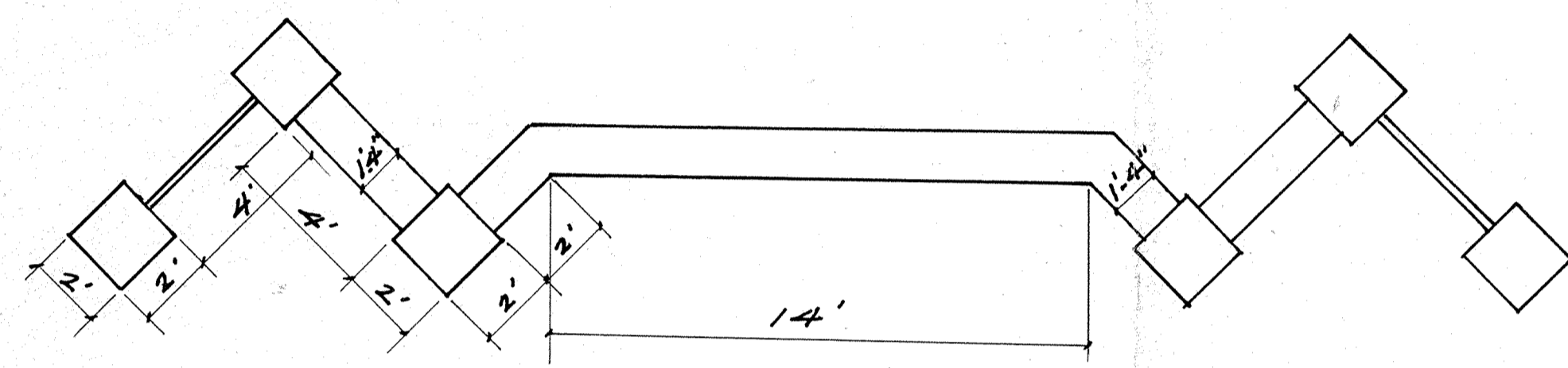
BRICK WALL / SECTION
SCALE: 1/2" = 1'-0"



WOOD FENCE / ELEVATION
SCALE: 1/2" = 1'-0"



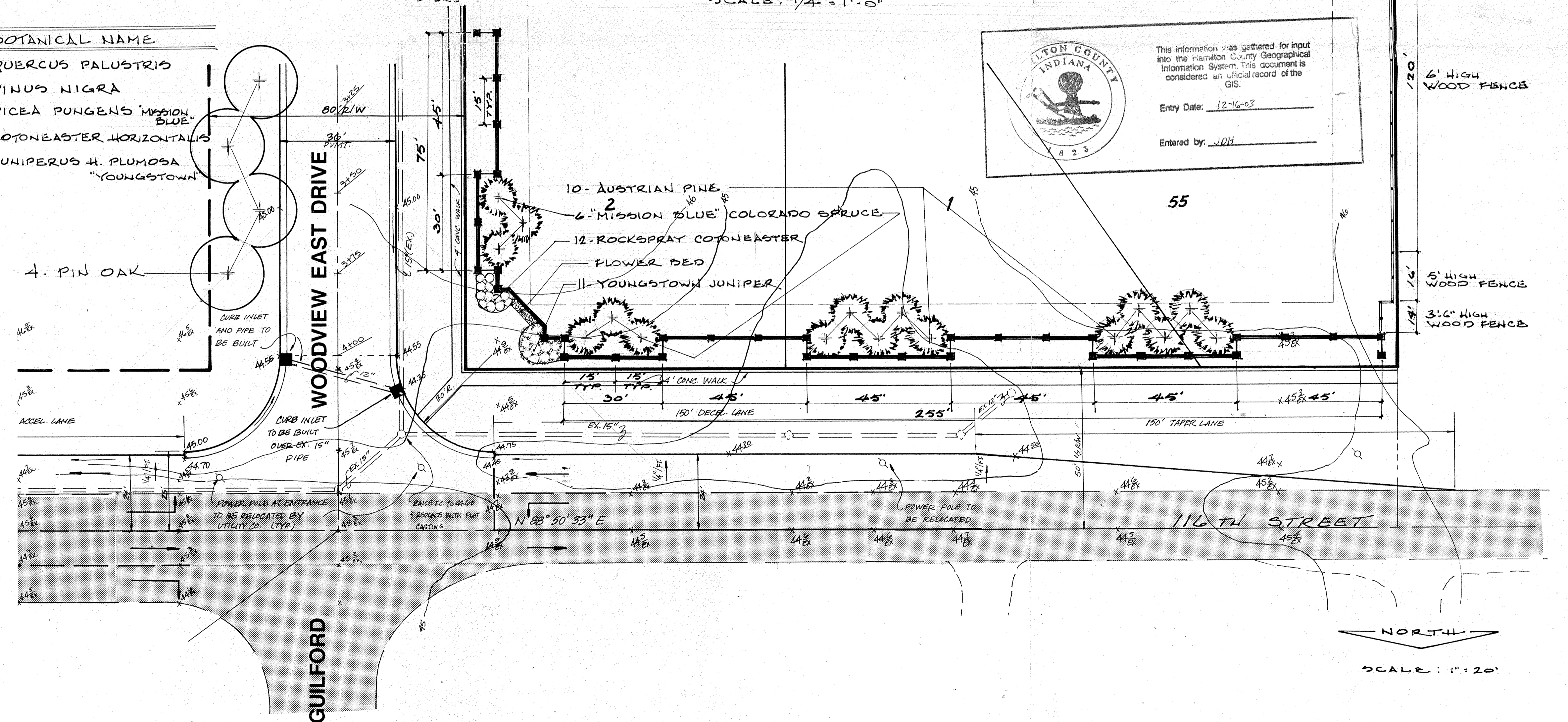
WOOD FENCE / PLAN
SCALE: 1/2" = 1'-0"



ENTRANCE WALL / PLAN DETAIL
SCALE: 1/4" = 1'-0"

PLANTING SCHEDULE

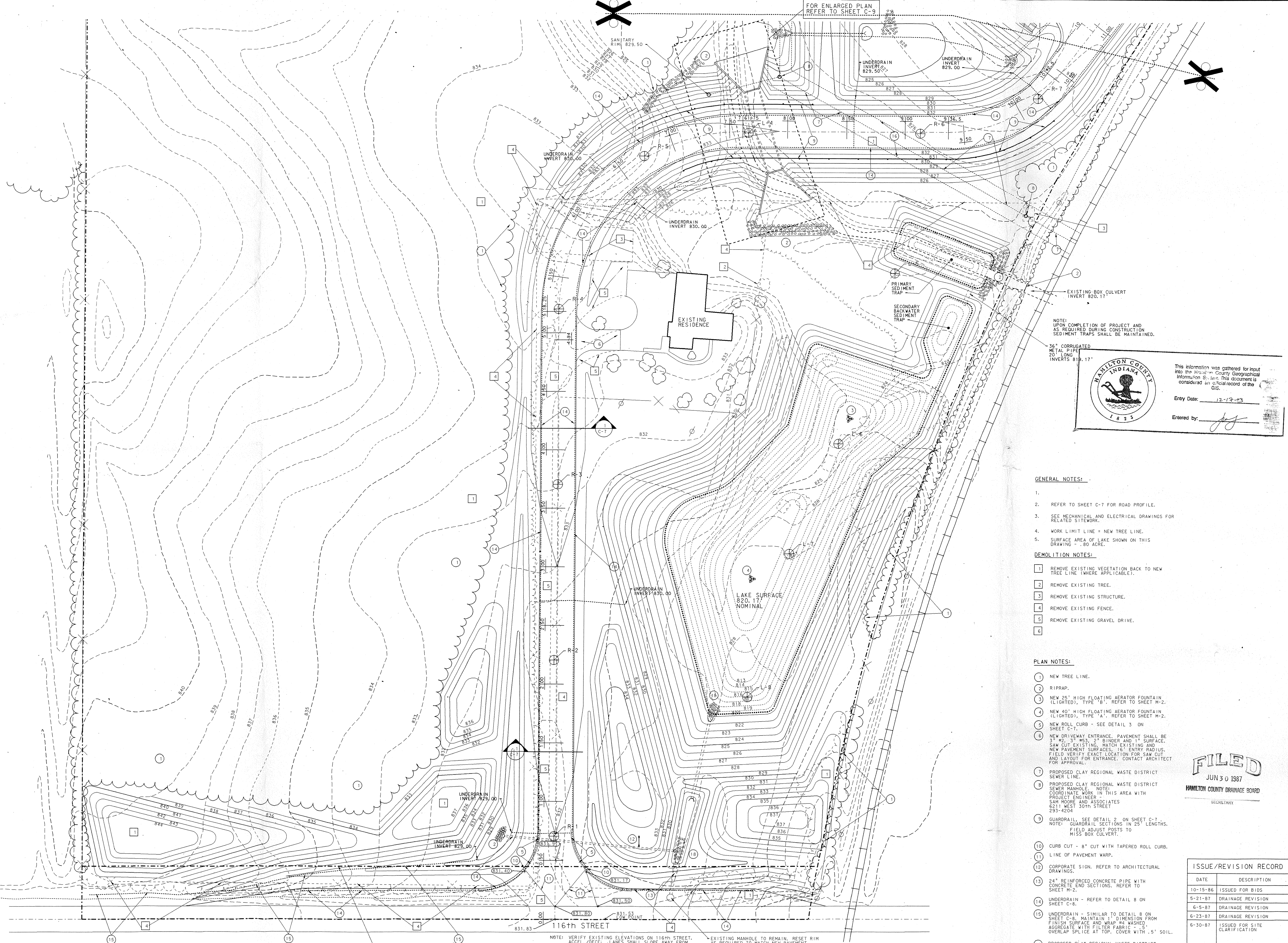
QUANTITY	SIZE	COMMON NAME	BOTANICAL NAME
4	4"	PIN OAK	QUERCUS PALUSTRIS
10	6'-7"	AUSTRIAN PINE	PINUS NIGRA
6	6'-7"	"MISSION BLUE" COLORADO SPRUCE	PICEA PUNGENS "MISSION BLUE"
12	24"	ROCKSPRAY COTONEASTER	COTONEASTER HORIZONTALIS
11	24"	YOUNGSTOWN JUNIPER	JUNIPERUS H. PLUMOSA "YOUNGSTOWN"



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Entry Date: 12-16-03

Entered by: JCH



FOR ENLARGED PLAN REFER TO SHEET C-9

NOTE: UPON COMPLETION OF PROJECT AND AS REQUIRED DURING CONSTRUCTION SEDIMENT TRAPS SHALL BE MAINTAINED.

36" CORRUGATED METAL PIPE 20' LONG INVERTS 819.17'



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 Entered by: [Signature]

GENERAL NOTES:

1. REFER TO SHEET C-7 FOR ROAD PROFILE.
2. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SITEWORK.
3. WORK LIMIT LINE = NEW TREE LINE.
4. SURFACE AREA OF LAKE SHOWN ON THIS DRAWING = 80 ACRES.

DEMOLITION NOTES:

- 1 REMOVE EXISTING VEGETATION BACK TO NEW TREE LINE (WHERE APPLICABLE).
- 2 REMOVE EXISTING TREE.
- 3 REMOVE EXISTING STRUCTURE.
- 4 REMOVE EXISTING FENCE.
- 5 REMOVE EXISTING GRAVEL DRIVE.

PLAN NOTES:

- 1 NEW TREE LINE.
- 2 RIPRAP.
- 3 NEW 25' HIGH FLOATING AERATOR FOUNTAIN (LIGHTED), TYPE "B". REFER TO SHEET M-2.
- 4 NEW 40' HIGH FLOATING AERATOR FOUNTAIN (LIGHTED), TYPE "A". REFER TO SHEET M-2.
- 5 NEW ROLL CURB - SEE DETAIL 3 ON SHEET C-1.
- 6 NEW DRIVEWAY ENTRANCE. PAVEMENT SHALL BE 3" #2, 3" #3, 2" BINDER AND 1" SURFACE. SAW CUT EXISTING, MATCH EXISTING AND NEW PAVEMENT SURFACES. 15' ENTRY RADIUS. FIELD VERIFY EXACT LOCATION FOR SAW CUT AND LAYOUT FOR ENTRANCE. CONTACT ARCHITECT FOR APPROVAL.
- 7 PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER LINE.
- 8 PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER MANHOLE. NOTE: COORDINATE WORK IN THIS AREA WITH PROJECT ENGINEER - SAM MOORE AND ASSOCIATES 6211 WEST 30th STREET 293-4204
- 9 GUARDRAIL. SEE DETAIL 2 ON SHEET C-7. NOTE: GUARDRAIL SECTIONS IN 25' LENGTHS. FIELD ADJUST POSTS TO MISS BOX CULVERT.
- 10 CURB CUT - 8" CUT WITH TAPERED ROLL CURB. LINE OF PAVEMENT WARP.
- 11 CORPORATE SIGN. REFER TO ARCHITECTURAL DRAWINGS.
- 12 24" REINFORCED CONCRETE PIPE WITH CONCRETE END SECTIONS. REFER TO SHEET M-2.
- 13 UNDERDRAIN - REFER TO DETAIL 8 ON SHEET C-8.
- 14 UNDERDRAIN - SIMILAR TO DETAIL 8 ON SHEET C-8. MAINTAIN 1" DIMENSION FROM FINISH SURFACE AND WRAP #4 WASHED CORROSION RESISTANT STEEL OVERGATE OVERLAP AT TOP. COVER WITH .5" SOIL.
- 15 PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER LINE. BASEMENT = 20' WIDE.
- 16 RIPRAP WITH FIRST 10' AT OUTLET GROUDED SOLID.
- 17 RIPRAP GROUDED SOLID.

FILED
 JUN 30 1987
 HAMILTON COUNTY DRAINAGE BOARD
 SECRETARY

ISSUE/REVISION RECORD	
DATE	DESCRIPTION
10-15-86	ISSUED FOR BIDS
5-21-87	DRAINAGE REVISION
6-5-87	DRAINAGE REVISION
6-23-87	DRAINAGE REVISION
6-30-87	ISSUED FOR SITE CLARIFICATION

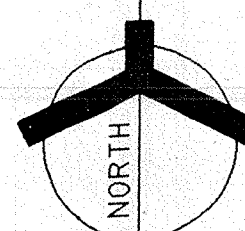
GRADING PLAN - SOUTH SECTION

SCALE: 1" = 30'

NOTE: VERIFY EXISTING ELEVATIONS ON 116th STREET. AS REQUIRED TO MATCH NEW PAVEMENT ELEVATION.

EXISTING MANHOLE TO REMAIN. RESET RIM AS REQUIRED TO MATCH NEW PAVEMENT ELEVATION.

PROPOSED 50' RIGHT OF WAY AS INDICATED ON CARMEL THROUGHFARE PLAN



DESIGN FILE: 055-1130-163 INSECTOZ.DGN:001
 LEVELS DISPLAYED: 1-64
 LEVEL 0 DISPLAYED: 1-5-66,66,64
 LEVELS DISPLAYED: N/A
 REFERENCE FILE 5:



PLAN NOTES

1. FOUNTAIN TYPE A:
 IMPERIAL BRONZELITE FF-500-A, 40 FT HIGH AREATOR HEAD FLOATING FOUNTAIN WITH 5 HP, 115/230 V, 1 PH ALUMINUM FOUNTAIN PUMP WITH BRASS STRAINER ASSEMBLY, 3 500 WATT UNDERWATER LIGHTS WITH ROCK GUARDS, WHITE LENS, AND THERMAL CUT-OUT DEVICES, 3 ADJUSTABLE PVC FLOATS WITH BRASS BALLAST CONTROL VALVES, 100 FT UNDERWATER CORDS PERMANENTLY ATTACHED TO FLOAT ASSEMBLY, STAINLESS STEEL ANCHOR CABLE KIT, PREWIRED UL LISTED WEATHER-PROOF CONTROL PANEL WITH GROUND FAULT CIRCUIT BREAKERS, 2 TIME CLOCKS, AND CORD STRAIN RELIEF CONNECTIONS.
2. FOUNTAIN TYPE B:
 IMPERIAL BRONZELITE FF-200-A, 25 FT HIGH AREATOR HEAD FLOATING FOUNTAIN WITH 2 HP, 115/230 V, 1 PH ALUMINUM FOUNTAIN PUMP WITH BRASS STRAINER ASSEMBLY, 3 500 WATT UNDERWATER LIGHTS WITH ROCK GUARDS, WHITE LENS, AND THERMAL CUT-OUT DEVICES, 3 ADJUSTABLE PVC FLOATS WITH BRASS BALLAST CONTROL VALVES, 100 FT UNDERWATER CORDS PERMANENTLY ATTACHED TO FLOAT ASSEMBLY, STAINLESS STEEL ANCHOR CABLE KIT, PREWIRED UL LISTED WEATHER-PROOF CONTROL PANEL WITH GROUND FAULT CIRCUIT BREAKERS, 2 TIME CLOCKS, AND CORD STRAIN RELIEF CONNECTIONS.

HAMILTON COUNTY INDIANA
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 Entry Date: 12-13-83
 Entered by: [Signature]

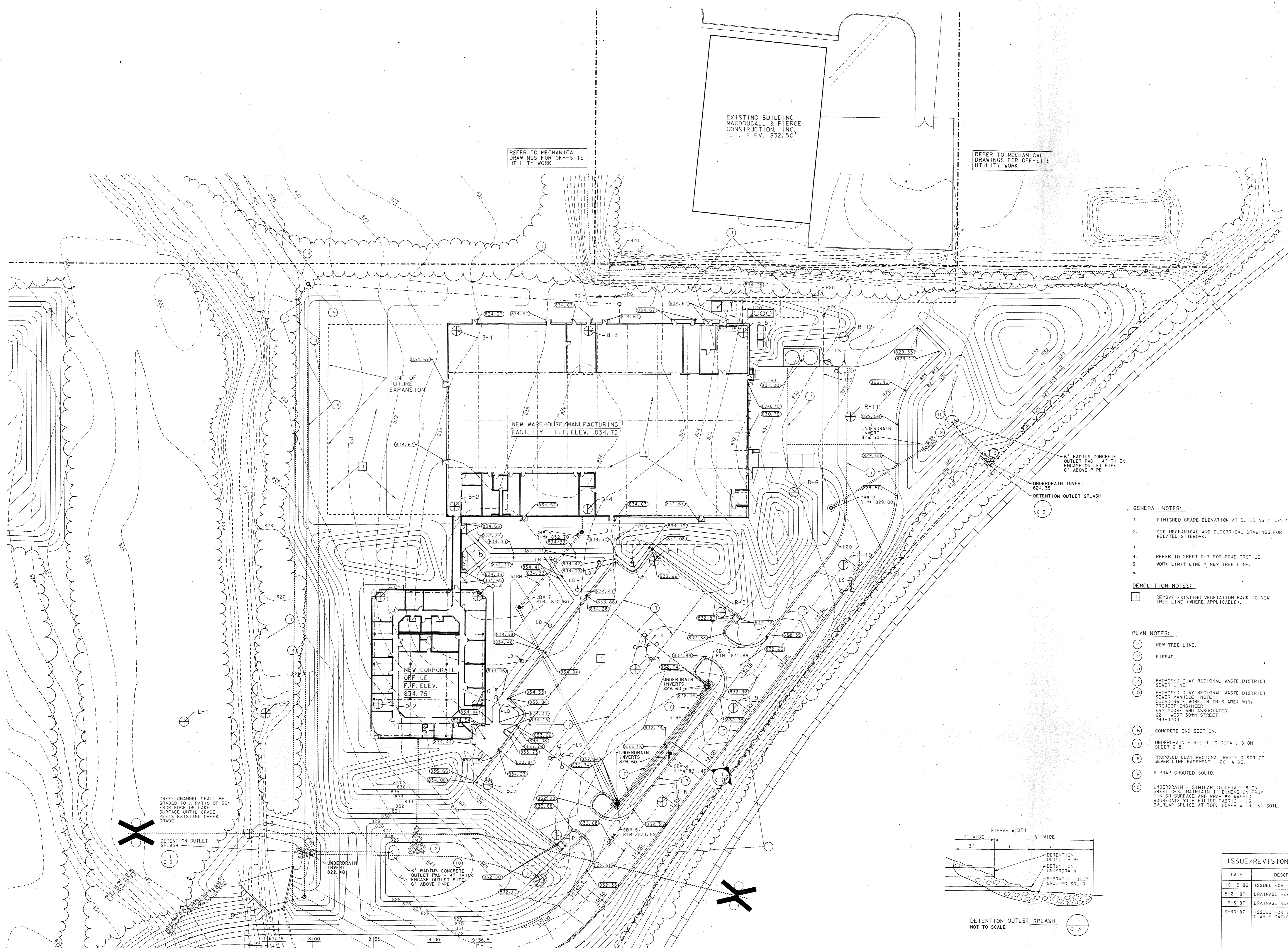
ISSUE/REVISION RECORD	
DATE	DESCRIPTION
10-15-86	ISSUED FOR BIDS
5-22-87	REVISION #1
6-30-87	ISSUED FOR SITE CLARIFICATION

PARTIAL SITE UTILITIES PLAN
 SCALE: 1" = 30'

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DESIGN FILE: 863-160-01
 REFERENCE FILE: 863-160-01
 LEVELS DISPLAYED: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

DESIGN FILE: 0552.L130.1633.INSREC03.DWG.001
LEVELS DISPLAYED: NONE
DATE: 10-15-86
PROJECT: 865-160
SCALE: 1" = 30'
FILE 3:
C:\WORK\PROJECTS\865-160\0552.L130.1633.INSREC03.DWG.001



GRADING PLAN - NORTH SECTION
SCALE: 1" = 30'

REFER TO MECHANICAL DRAWINGS FOR OFF-SITE UTILITY WORK

REFER TO MECHANICAL DRAWINGS FOR OFF-SITE UTILITY WORK

GENERAL NOTES:

1. FINISHED GRADE ELEVATION AT BUILDING = 834.40'.
2. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SYSTEMS.
3. REFER TO SHEET C-7 FOR ROAD PROFILE.
4. WORK LIMIT LINE = NEW TREE LINE.
5. REFER TO SHEET C-7 FOR ROAD PROFILE.
6. WORK LIMIT LINE = NEW TREE LINE.

DEMOLITION NOTES:

1. REMOVE EXISTING VEGETATION BACK TO NEW TREE LINE (WHERE APPLICABLE).

PLAN NOTES:

1. NEW TREE LINE.
2. RIPRAP.
3. PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER LINE.
4. PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER MANHOLE. NOTE: COORDINATE WORK IN THIS AREA WITH PROJECT ENGINEER - SAM MOORE AND ASSOCIATES 6211 WEST 30TH STREET 293-4204.
5. CONCRETE END SECTION.
6. UNDERDRAIN - REFER TO DETAIL 8 ON SHEET C-8.
7. PROPOSED CLAY REGIONAL WASTE DISTRICT SEWER LINE EASEMENT - 20' WIDE.
8. RIPRAP GROUTED SOLID.
9. UNDERDRAIN - SIMILAR TO DETAIL 8 ON SHEET C-8. MAINTAIN 1" DIMENSION FROM FINISH SURFACE AND WRAP #4 WASHED AGGREGATE WITH FILTER FABRIC 1" OVERLAP SPLICE AT TOP. COVER WITH 1.5" SOIL.

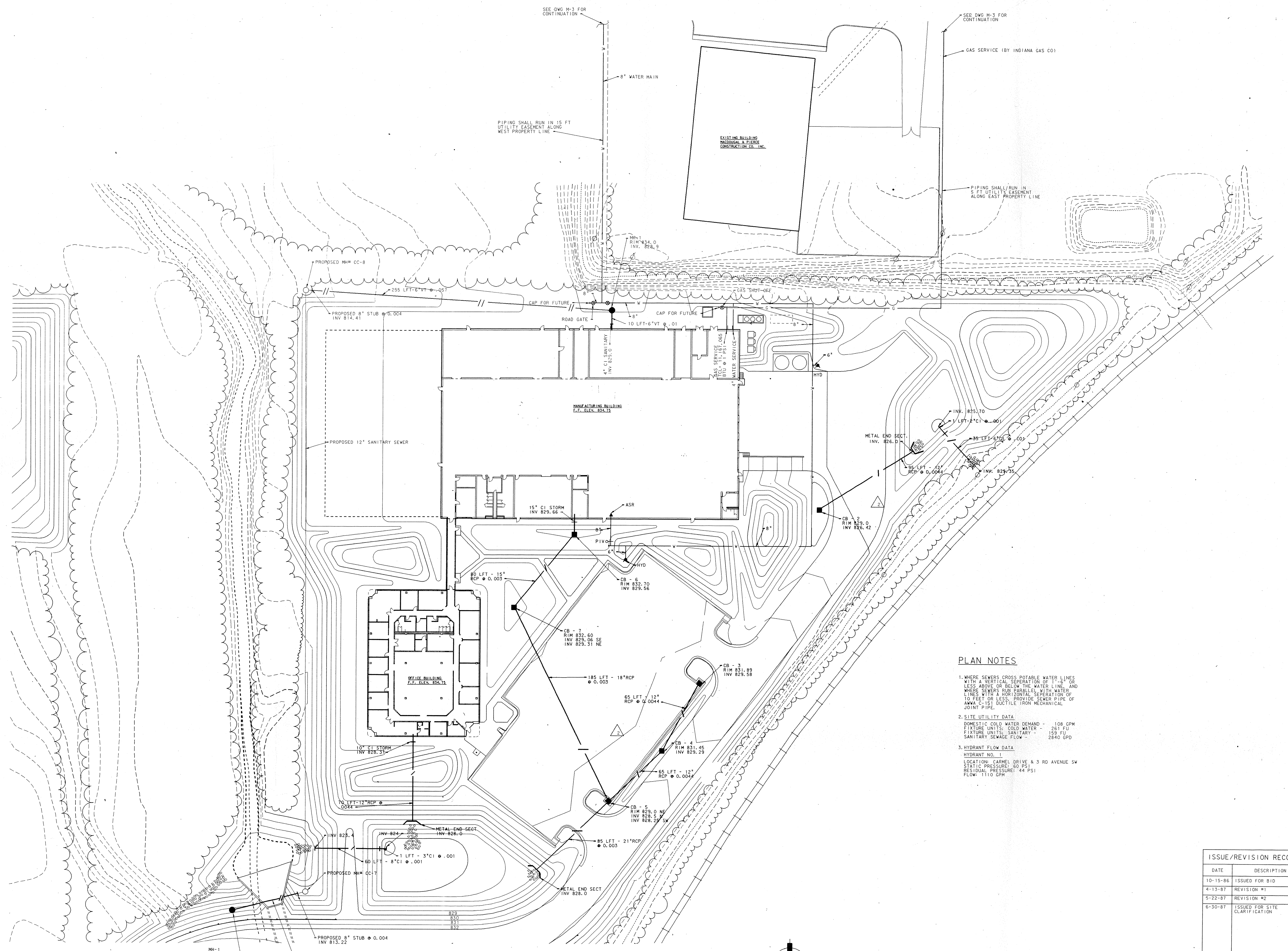
ISSUE/REVISION RECORD

DATE	DESCRIPTION
10-15-86	ISSUED FOR BIDS
5-21-87	DRAINAGE REVISION
6-5-87	DRAINAGE REVISION
6-30-87	ISSUED FOR SITE CLARIFICATION

Professional Engineer Seal for David M. W... State of Indiana. License No. 40800000.

PROJECT: 865-160
DATE: 10-15-86
REVISED:

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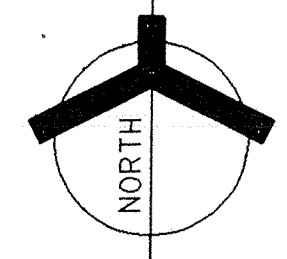


PLAN NOTES

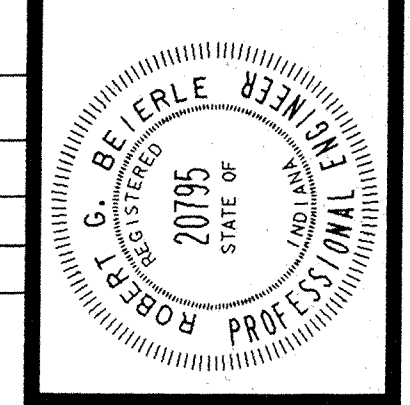
- WHERE SEWERS CROSS POTABLE WATER LINES WITH A VERTICAL SEPARATION OF 1' 6" OR LESS ABOVE OR BELOW THE WATER LINE, AND WHERE SEWERS RUN PARALLEL WITH WATER LINES WITH A HORIZONTAL SEPARATION OF 10 FEET OR LESS, PROVIDE SEWER PIPE OF AWWA C-151 DUCTILE IRON MECHANICAL JOINT PIPE.
- SITE UTILITY DATA
 DOMESTIC COLD WATER DEMAND - 108 GPM
 FIXTURE UNITS: COLD WATER - 261 FU
 FIXTURE UNITS: SANITARY - 159 FU
 SANITARY SEWAGE FLOW - 2840 GPD
- HYDRANT FLOW DATA
 HYDRANT NO. 1
 LOCATION: CARMEL DRIVE & 3 RD AVENUE SW
 STATIC PRESSURE: 60 PSI
 RESIDUAL PRESSURE: 44 PSI
 FLOW: 1110 GPM

PARTIAL SITE UTILITIES PLAN

SCALE: 1" = 30'



DATE	DESCRIPTION
10-15-86	ISSUED FOR BID
4-13-87	REVISION #1
5-22-87	REVISION #2
6-30-87	ISSUED FOR SITE CLARIFICATION



PROJECT	863-160
DATE	10-15-86
REVISED	

DESIGN FILE: 05211301633INSE001.DWG.001
 REVISION FILE: 05211301633INSE001.DWG.001
 REFERENCE FILE: 05211301633INSE001.DWG.001
 DATE: 10-15-86
 TIME: 11:54 AM
 USER: R. SEAL
 PLOT: 10-15-86 11:54 AM

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