Drain: HUNTERS CREEK SOUTH DRAIN **Drain #:** 188

Improvement/Arm: ROHRER MEADOWS - SECTION 1A, 1B, 2

Operator: JDH **Date:** 12-31-03

Drain Classification: **Urban/Rural** **Year Installed:** 1989

GIS Drain Input Checklist

- Pull Source Documents for Scanning — ~~JDH~~ 12-31
- Digitize & Attribute Tile Drains — N/A
- Digitize & Attribute Storm Drains — ~~JDH~~ 1-2
- Digitize & Attribute SSD — ~~JDH~~ 1-2
- Digitize & Attribute Open Ditch — N/A
- Stamp Plans — ~~JDH~~ 1-2
- Sum drain lengths & Validate — ~~JDH~~ 1-2
- Enter Improvements into Posse — ~~JDH~~ 1-2
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Check Database entries for errors — ~~JDH~~ 1-2

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Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: HUNTERS CREEK SOUTH DRAIN - ROHRER MEADOWS - SECTION 1A, 1B, 2

Drain Type:	Size:	Length (SURVEYOR'S REPORT)	Length (DB Query)	Length Reconcile	If Applicable Price:	If Applicable Cost:
SSD	6"	4,370	4,370	Ø		
RCP	12"	793'	793'	Ø		
	15"	241'	243'	+2		
	18"	834'	834'	Ø		
	21"	335'	355'	+20		
	24"	975'	787'	-188		
	27"	302'	490'	+188		
Sum:		7,850'	7,872	+22'		

Final Report: _____

Comments:

SURVEYED AND PLAN LENGTHS DO NOT AGREE

509' OF 6" SSD PLACED AS 10" CLAY TILE IN HCS - SECTION 2

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SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
776-9626
942 Maple Avenue
Noblesville, Indiana 46060

April 16, 1992

July 20 9:00 am

To: Hamilton County Drainage Board

Re: Hunters Creek South Drain
Rohrer Meadows Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Rohrer Meadows Arm, Hunters Creek South Drain. This arm consist of Rohrer Meadows Sections 1A, 1B and 2. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6" SSD	4370'	21" RCP	335'
12" RCP	793'	24" RCP	770'
15" RCP	241'	27" RCP	302'
18" RCP	834'		

The total length of the drain will be 7665 feet.

The pond located in the rear of lots 22, 23, and 24 will not be maintained as part of the regulated drain. The maintenance of the pond is the responsibility of those lot owners. The Board will however reserve the right to maintain the inlet and outlet of the pond and to ensure the required storage capacity is retained.

The SSD which is to become a part of the regulated drain is that portion of the main line located within easements and road right-of-way. Laterals will not be maintained as part of the regulated drain.

The offsite improvements include the installation of 509' of 6" SSD which replaces the existing 10" tile mentioned in my May 11, 1984 report for Hunters Creek South Section 1. Also replaced is the existing 15" RCP along Rohrer Road between Nevelle Lane and the detention area. This was replaced by 205' of 24" RCP. Neither of these are represented in the total length above as they are replacements of an existing portion of the regulated drain.

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I have reviewed the plans and believe and drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I recommend a maintenance assessment of $25.00 per lot, $3.00 per acre for roadways. With this assessment the total annual assessment for the drain for this section will be 1/06 82.

I recommend a hearing be set for July 1992.

Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

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Amendment

INB National Bank
One Indiana Square
Indianapolis, Indiana 46266

SWIFT Address: INBI US 44 Telex Number 205615 Phone: (317) 266-6153

INB

Date November 13,1989cw

Amendment To: **IRREVOCABLE LETTER OF CREDIT**	Credit Number Issuing Bank: SB035000	Credit Number Advising Bank:
Issuing/Advising Bank:	Applicant: The C.P. Morgan Co., Inc. 1980 E. 116th Street, Suite 125 Carmel Indiana 46032	
Beneficiary: Hamilton County Commissioners/ Drainage Board 942 Maple Avenue Noblesville Indiana 46060	Original Amount: U.S.D. $77,000.00	

The Above Mentioned Credit is Amended As Follows: (Please Be Guided By Instructions Marked X)
amendment number one

☐ Expiration Date Extended To

☐ Latest Shipping Date Extended To

☐ Amount Increased By

☐ Description Of Merchandise To Read

Rohrer Meadows

☒ Other
Beneficiary name amended to read:
Hamilton County Commissioners/Drainage Board

If you do not agree with this amendment, notification by mail or cable must be received by us no later than 15 days after the date of this amendment.

This Amendment Is To Be Considered As Part Of The Above Credit And Must Be Attached Thereto:	Advising Bank Notification:
☐ Confirmation Of Our Telephone Conversation With On _____ Yours Faithfully, Mary E. Griggs Authorized Signature	Place, Date, Name And Signature Of Advising Bank

Except so far as otherwise expressly stated, this documentary credit is subject to the "Uniform Customs and Practice for Documentary Credits (1983 Revision) ICC Publication 400"

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Irrevocable Letter of Credit

INB National Bank
One Indiana Square
Indianapolis, Indiana 46266

INB

Date: November 8,1989cw

SWIFT Address: INBI US 44 Telex Number 205615 Phone: 266-6153

INB NO. SB 035000

Credit Number Advising Bank No.

Advising Bank

Applicant

The C.P. Morgan Co., Inc.
1980 E. 116th Street, Suite 125
Carmel Indiana 46032

Beneficiary

Hamilton County ~~Surveyors Office~~ Commissioners/Drainage Board
942 Maple Avenue
Noblesville Indiana 46060

Amount

U.S.D. $77,000.00

Expiration Date

November 10,1990

We hereby issue in your favor this irrevocable letter of credit which is available against the following documents:

Drafts drawn at— sight

on INB National Bank

bearing the clause; "Drawn under irrevocable letter of credit No. SB 035000
Other documents:

Beneficiary signed certificate stating that the applicant has failed to construct the necessary storm sewers at the applicants Rohrer Meadows subdivision, in accordance with the Subdivision contract terms as required, Plat committee Docket No. 5189PP dated 10/17/89.

THE INDIANA NATIONAL BANK 77000

☐ Special Conditions:

We hereby engage with ☒ You ☐ drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this credit will be duly honored on presentation and that drafts accepted within the terms of this credit will be duly honored at maturity.

The amount of each draft must be endorsed on the reverse of this credit by the negotiating bank.

~~The Advising Bank is requested to add its confirmation.~~

Very truly yours,

Mary C. Suggs

Advising Bank's Notification

Place/date/name/signature of advising bank.

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

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CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: COUNTY SURVEYOR'S OFFICE, HAMILTON COUNTY
ATTN: Mr. Kenton Ward
FROM: Paul I. Cripe, Inc., Engineers

SUBJECT: Rohrer Meadows, Section 1A

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 _____

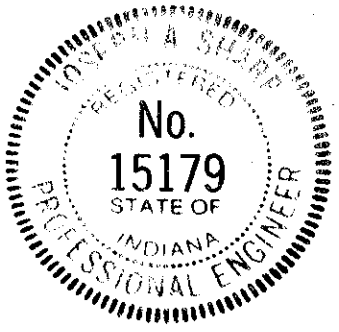
Signature Joseph A. Sharp Date January 3, 1990

Type or Printed Name Joseph A. Sharp

Business Address 7172 Graham Road
Indianapolis, IN 46250

Telephone 317-842-6777

Seal



Indiana Registration Number

15179

ADM:tl
1/13/84

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CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: COUNTY SURVEYOR'S OFFICE, HAMILTON COUNTY
ATTN: Mr. Kenton Ward
FROM: Paul I. Cripe, Inc., Engineers / Joe Sharp

SUBJECT: ROHRER MEADOWS SUBDIVISION, SECTION 1B

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 as noted on Record Drawings

Signature Joseph A. Sharp Date June 3, 1992

Type or Printed Name Joseph A. Sharp

Business Address 7172 Graham Road
Indianapolis, IN 46250

Telephone 842-6777

Seal

Indiana Registration Number

15179

ADM:tl
1/13/84

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CERTIFICATE OF COMPLETION AND COMPLIANCE

TO: COUNTY SURVEYOR'S OFFICE, HAMILTON COUNTY
ATTN: Mr. Kenton Ward
FROM: Paul I. Cripe, Inc., Engineers / Joe Sharp

SUBJECT: ROHRER MEADOWS SUBDIVISION, SECTION 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 as noted on Record Drawings

Signature Joseph A. Sharp Date June 3, 1992

Type or Printed Name Joseph A. Sharp

Business Address 7172 Graham Road
Indianapolis, IN 46250

Telephone 842-6777

Seal

Indiana Registration Number

15179

ADM:tl
1/13/84

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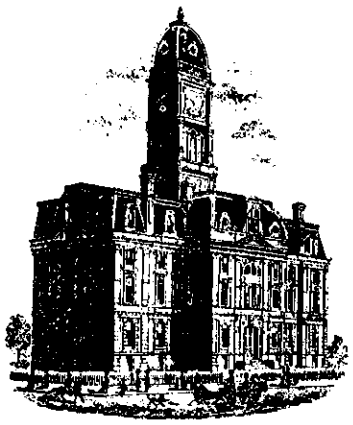

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor
776-8495
Suite 146
One Hamilton County Square
Noblesville, Indiana 46060-2230

August 16, 1994

TO: Hamilton County Drainage Board

RE: Hunter's Creek South Drain-Rohrer Meadows Sections 1a, 1b, 2

Attached are as-builts, certificate of completion and compliance and other information for Rohrer Meadows Sections 1a, 1b, 2. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction of the drain there were not any significant changes made to the plans submitted with my report dated April 16, 1992. Therefor, the length of the drain remains at 7665 feet.

The non-enforcement of easement was approved for all three (3) sections, by the Board at it's meeting on July 20, 1992.

The bond or letter of credit from INB, number 035000, dated November 8, 1989, in the amount of $77,000.00, has been released.

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

Kenton C. Ward
Hamilton County
KCW/no

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Rohrer Meadows
Hamilton Co.'s numbering on drawings

CONSTRUCTION PLANS FOR
ROHRER MEADOWS
SECTIONS ONE-A, ONE-B & TWO

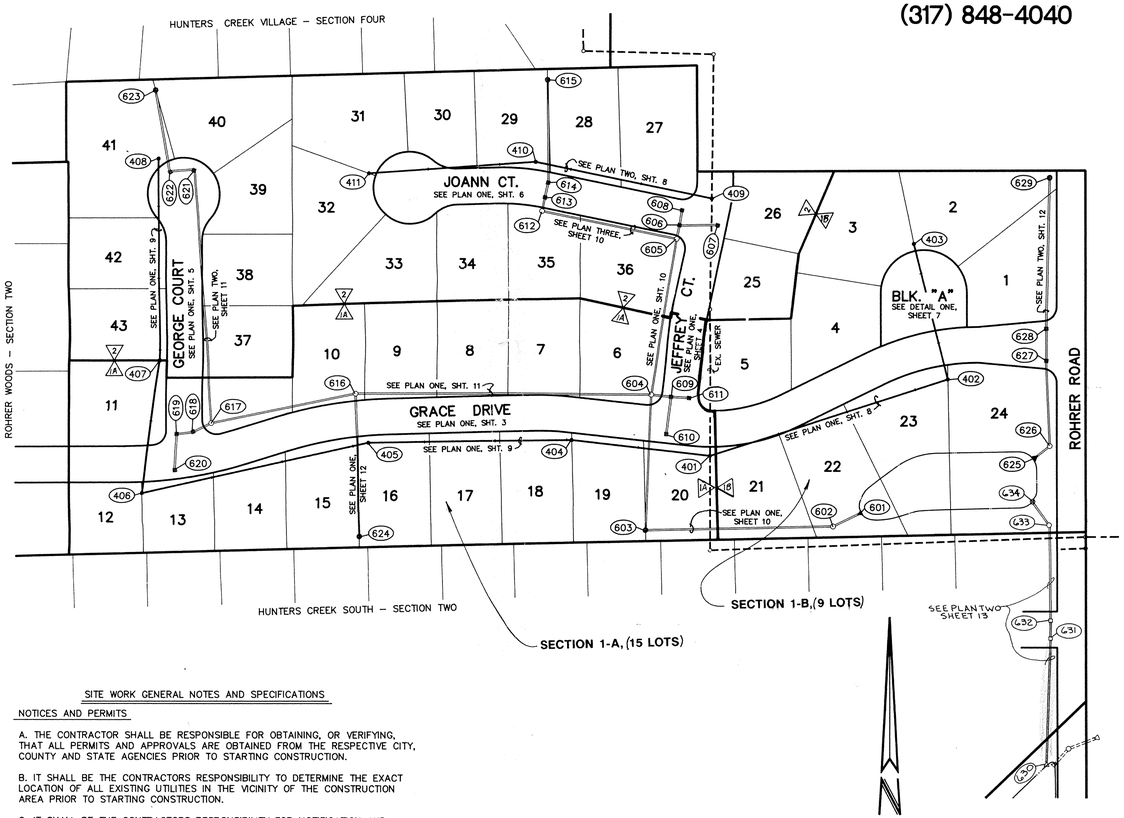
ROHRER MEADOWS

FILED
NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY _____

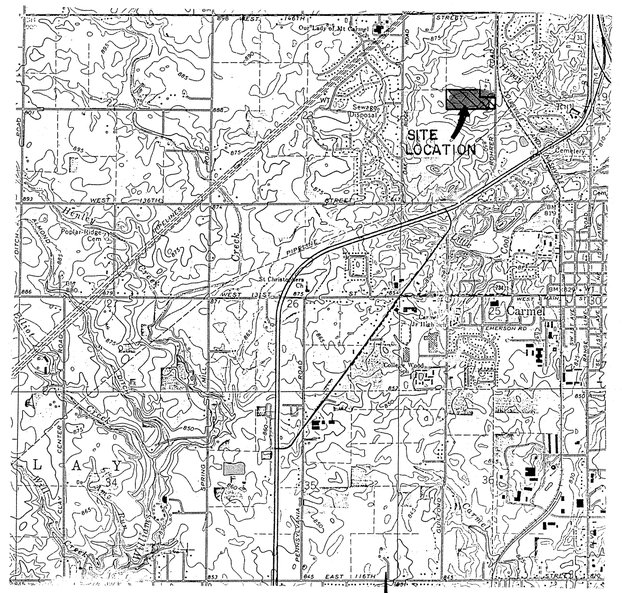
NOV 10 89

DEVELOPED BY:

C. P. MORGAN CO., INC.
1980 116th STREET, SUITE 125
CARMEL, INDIANA 46032
(317) 848-4040



SCALE: 1" = 100'



AREA MAP
SCALE: 1"=2000'

INDEX

SHT	DESCRIPTION
1.	COVER SHEET
2.	SITE DEVELOPMENT PLAN
3.	STREET – PLAN & PROFILE
4.	STREET – PLAN & PROFILE
5.	STREET – PLAN & PROFILE
6.	STREET – PLAN & PROFILE
7.	STREET DETAIL
8.	SANITARY SEWER – PLAN & PROFILE
9.	SANITARY SEWER – PLAN & PROFILE
10.	STORM SEWER – PLAN & PROFILE
11.	STORM SEWER – PLAN & PROFILE
12.	STORM SEWER – PLAN & PROFILE
13.	OFFSITE STORM SEWER – PLAN & PROFILE
14.	EROSION CONTROL PLAN
15.	WATER MAIN – DETAILS & SPECS.
16.	STANDARD DETAILS
17.	STANDARD SPECIFICATIONS

BENCHMARKS

REVISIONS

9-8-89 REV. PER T.A.C. TMS
10-9-89 ADDITIONAL REV. PER T.A.C. & MISC. REV. PER DRAFT. CHK. TMS
10-11-89 REV. SEC. 1 -24"RCP, W/23 SSCS" 14"x19" REV. SHTS. 1,3,4,5,8,9,10,11,14 TRZ
10-12-89 REV. STREET GRDS & STORM INVERTS @ INTERSECTION OF JEFFREY CT. & JOANN CT. TMS
10-20-89 REV. PER T.A.C. (SHTS. 2 & 8) TMS
11-9-89 REV. STR. GRDS. (SHTS. 2,3 & 5) TMS

SITE WORK GENERAL NOTES AND SPECIFICATIONS

NOTICES AND PERMITS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.

C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.

D. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

E. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE THESE PLANS AND SPECIFICATIONS.

FILE NAME: RM\89385A-1.dwg

JOSEPH A SHARP
REGISTERED
No. 15179
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY: Joseph A Sharp
DATE: 9-15-89

REVISIONS
10-10-89 DWGS SEC 1 INTO "14"x19" TRZ

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:	DRAWN BY: TMS	SCALE: AS NOTED	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.
DRFTNG. CHK:	DRAWING TITLE: COVER SHEET			

DWG. TYPE	FILE NUMBER
JOB NUMBER	
8 9 3 8 5 – 0 0 0 0 0	

SHEET: 1 OF 17

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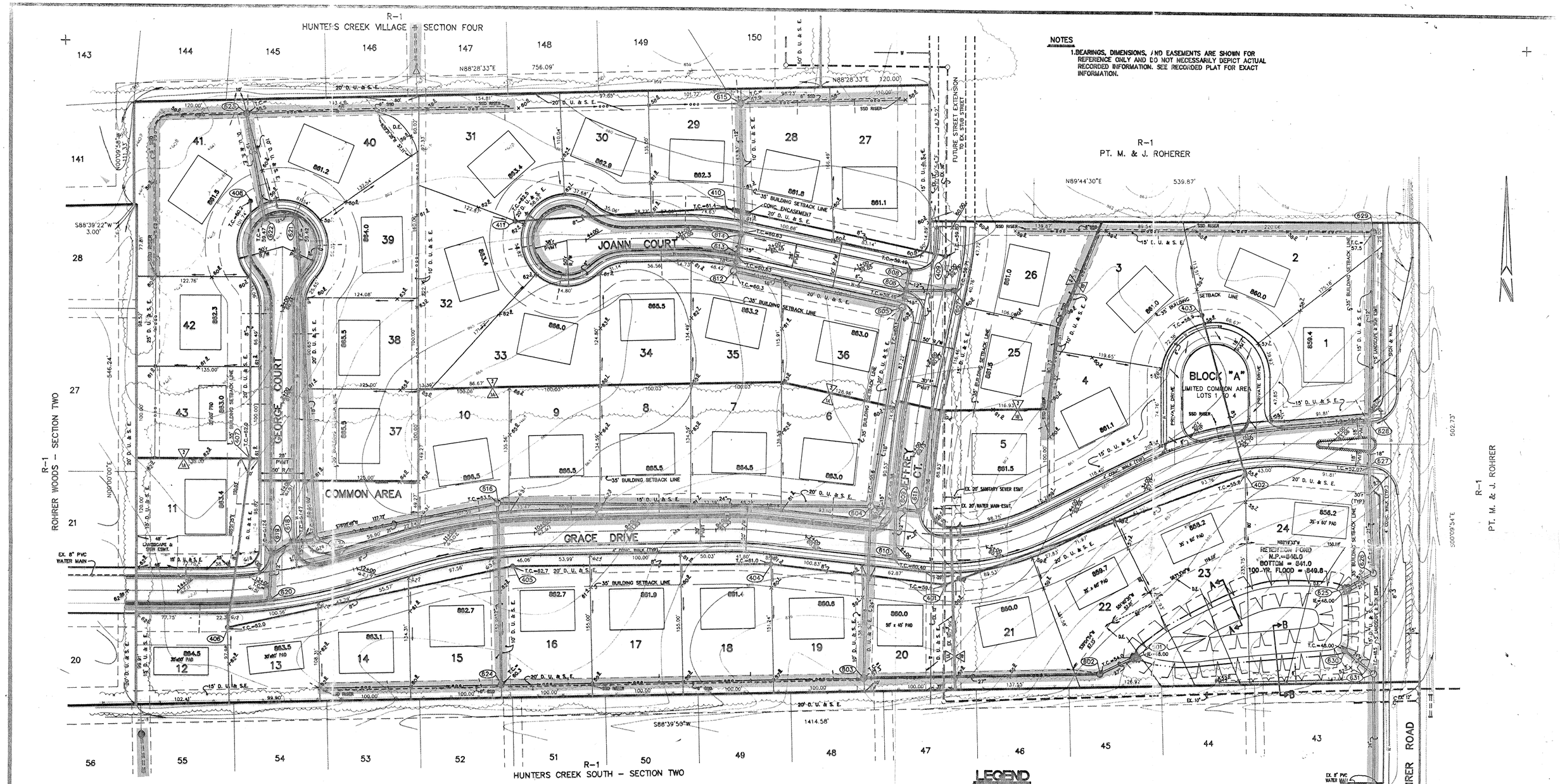
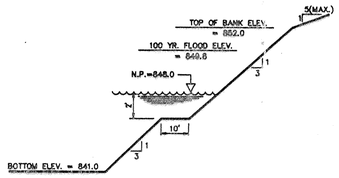


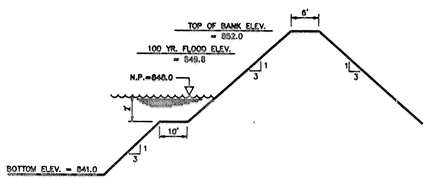
NOTES

1. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.



POND X-SECTION "A-A"

NO SCALE



POND X-SECTION "B-B"

NO SCALE

LEGEND

- STANDARD MANHOLE
- TYPICAL STRUCTURE NUMBER
- SANITARY SEWER
- CURB INLETS
- 6" PIPE UNDERDRAIN (SSD) WHERE SHOWN
- STORM SEWER
- RIP RAP
- DITCH GRATE INLET
- STORM MANHOLE
- STL END SECTION
- VALVE
- FIRE HYDRANT ASSEMBLY
- WATER MAIN
- TYP. BUILDING PAD
- MINIMUM PAD GRADE (TYPICAL)
- ALL PADS ARE 45'x60' EXCEPT WHERE NOTED

This information was [illegible] into the [illegible] Information [illegible] considered [illegible]

Entry Date: 1-2-04

Entered by: JOH

FILE NAME: RM\89385B.dwg

CERTIFIED BY: Joseph A. Sharp 9-15-89 DATE

REVISIONS

9-8-89 REV. PER T.A.C.		10-20-89 REV. PER T.A.C.	
10-9-89 REV. POND - REV. STORM OUTLET LOCATION		11-9-89 REV. GRDS. (GRACE DR) STA 9+00 thru 14+00	
10-11-89 REV. SEC. 1 TO "1A" & "1B"	TRZ	12-6-89 REV. FIRE HYDRANT LOCATIONS (GRACE DR)	
10-12-89 REV. GRDS. @ JEFFREY CT. & JOANN CT.		12-20-89 REV. T.C. - STR. # 626	

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

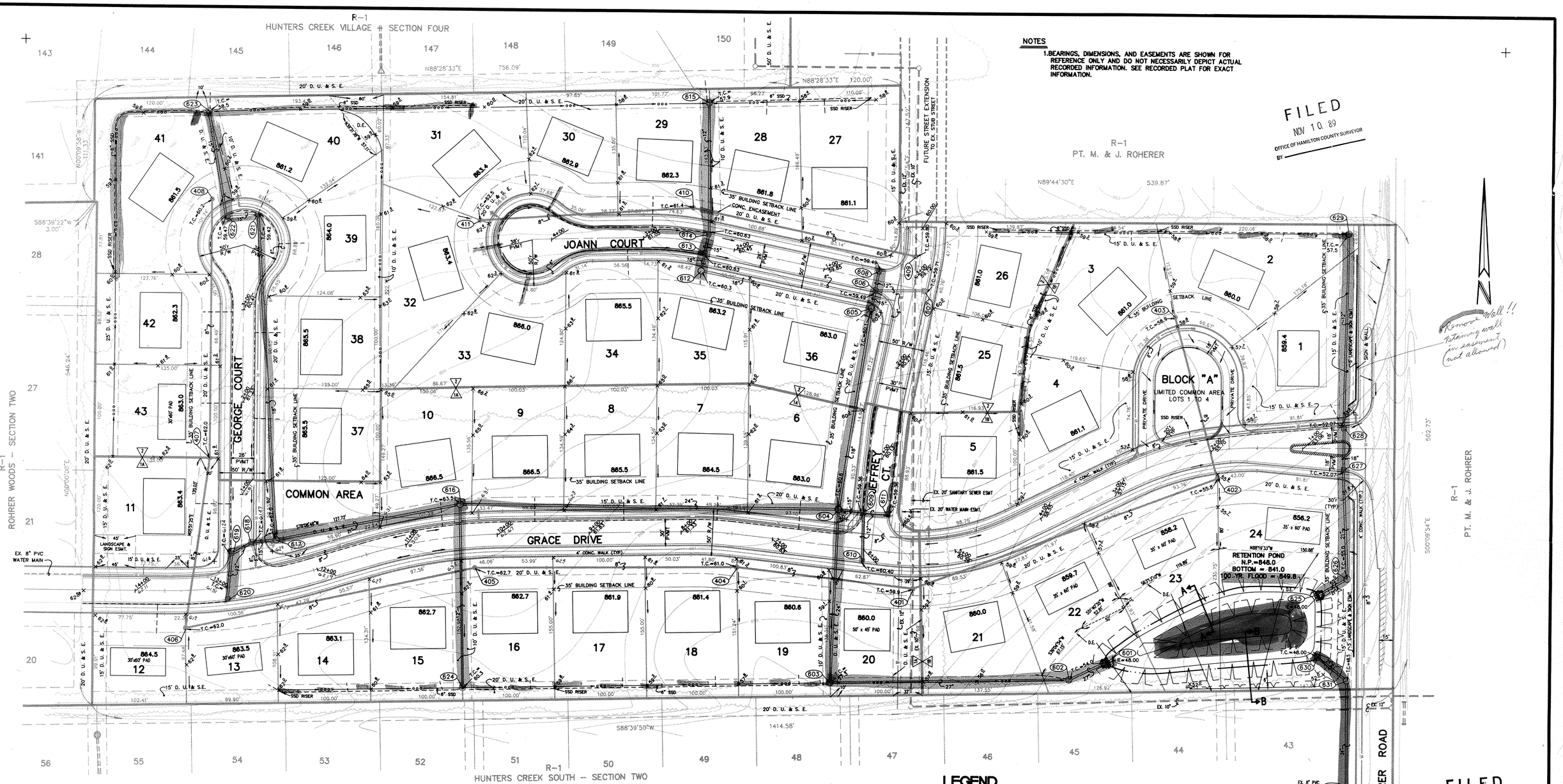
TECH CHK: | DRAWN BY: | SCALE: 1" = 50' | DATE: 8-17-89 | CLIENT: C. P. MORGAN CO., INC.

DRFTNG. CHK: | DRAWING TITLE: SITE DEVELOPMENT PLAN

DWG. TYPE | FILE NUMBER | SHEET: 2 OF 17

JOB NUMBER 89385-00000

ASBUILT
ROHRER MEADOWS
SECTIONS "1A"-"1B" &



NOTES

1. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT ACTUAL RECORDED INFORMATION. SEE RECORDED PLAT FOR EXACT INFORMATION.

FILED
NOV 10. 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

Remove Wall!! Retaining wall in easement (not allowed)

FILED
NOV 10. 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

LEGEND

- STANDARD MANHOLE
- TYPICAL STRUCTURE NUMBER
- SANITARY SEWER
- CURB INLETS
- 6" PIPE UNDERDRAIN (SSD) WHERE SHOWN
- STORM SEWER
- RIP RAP
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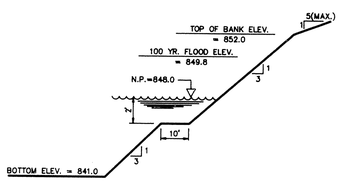
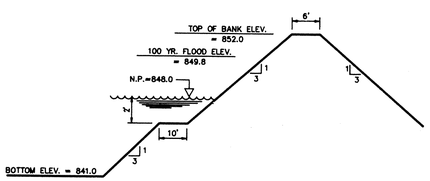


POND X-SECTION 'A-A'

NO SCALE



POND X-SECTION 'B-B'

NO SCALE

FILED
NOV 10. 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

ROHRER MEADOWS
SECTIONS "1A"-"1B" & 2

FILE NAME: RM\89385B.dwg

CERTIFIED BY:	REVISIONS			
	9-8-89 REV. PER T.A.C.		10-20-89 REV. PER T.A.C.	
	10-9-89 REV. POND - REV. STORM OUTLET LOCATION		11-9-89 REV. GRDS (GRACE DR) STA 9+00 thru 14+00	
	10-11-89 REV. SEC. 1 TO "1A" & "1B"	TRZ		
DATE	10-12-89 REV. GRDS. @ JEFFREY CT. & JOANN CT.			

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY:
SCALE: 1" = 50'
DATE: 8-17-89
CLIENT: C. P. MORGAN CO., INC.
DRAWING TITLE: SITE DEVELOPMENT PLAN
DWG. TYPE
FILE NUMBER
JOB NUMBER 89385-00000
SHEET: 2 OF 17

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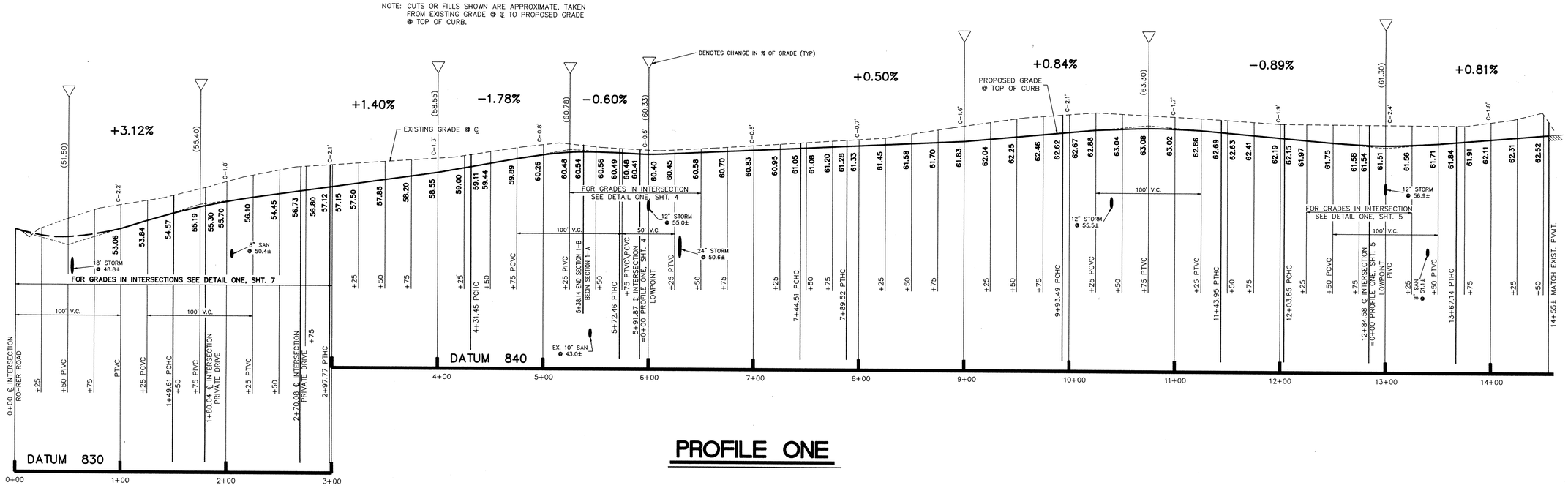
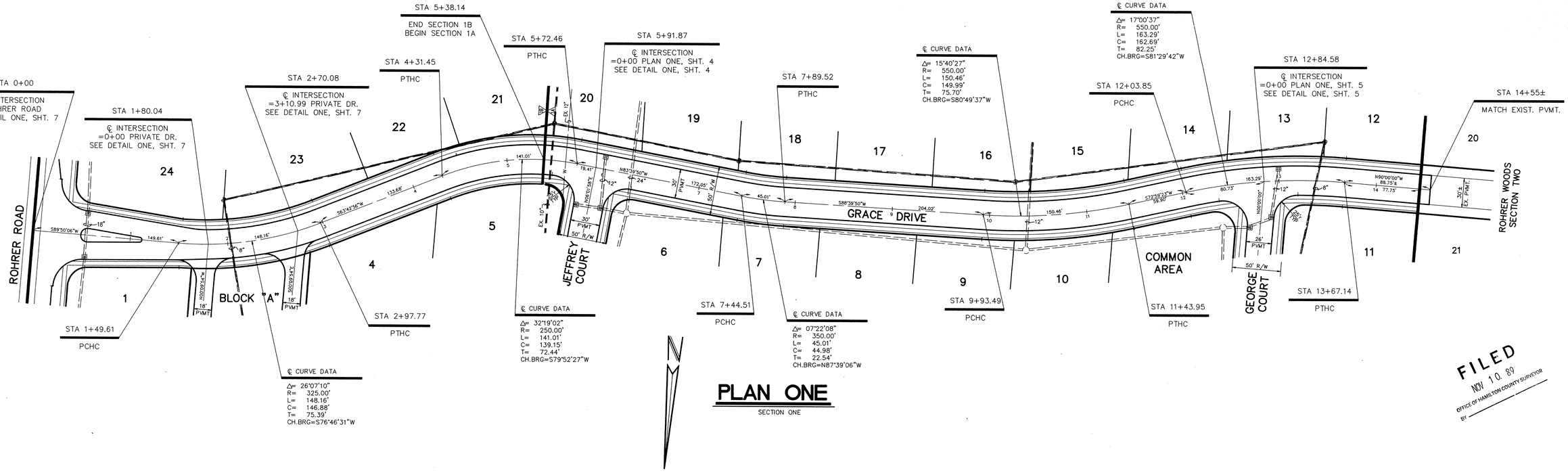


PROFILE ONE



PLAN ONE

SECTION ONE

FILED
NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

FILE NAME: RM\89385C-3.dwg

ROHRER MEADOWS – SECTIONS 1 & 2

CERTIFIED BY:

DATE

REVISIONS	
9-8-89 REV. GRDS. 4+00 thru 11+25	RJS
10-9-89 MISC. REV. PER DRAFT. CHK.	TRZ
10-11-89 REV. SEC. ONE TO 1A & 1B	RJS
11-9-89 REV GRDS. 9+00 thru 14+55	RJS

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:	DRAWN BY: RJS	SCALE: HORZ. 1"=50' VERT. 1"=5	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.	DWG. TYPE / FILE NUMBER / SHEET: 3
DRFTNG. CHK:	DRAWING TITLE: STREET – PLAN & PROFILE				JOB NUMBER 89385-0000 OF 17

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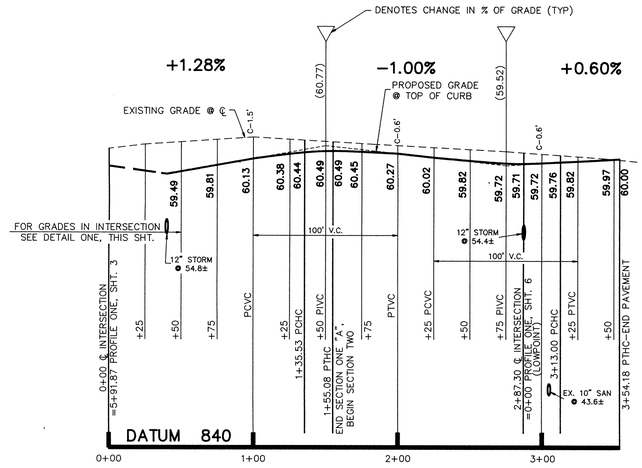
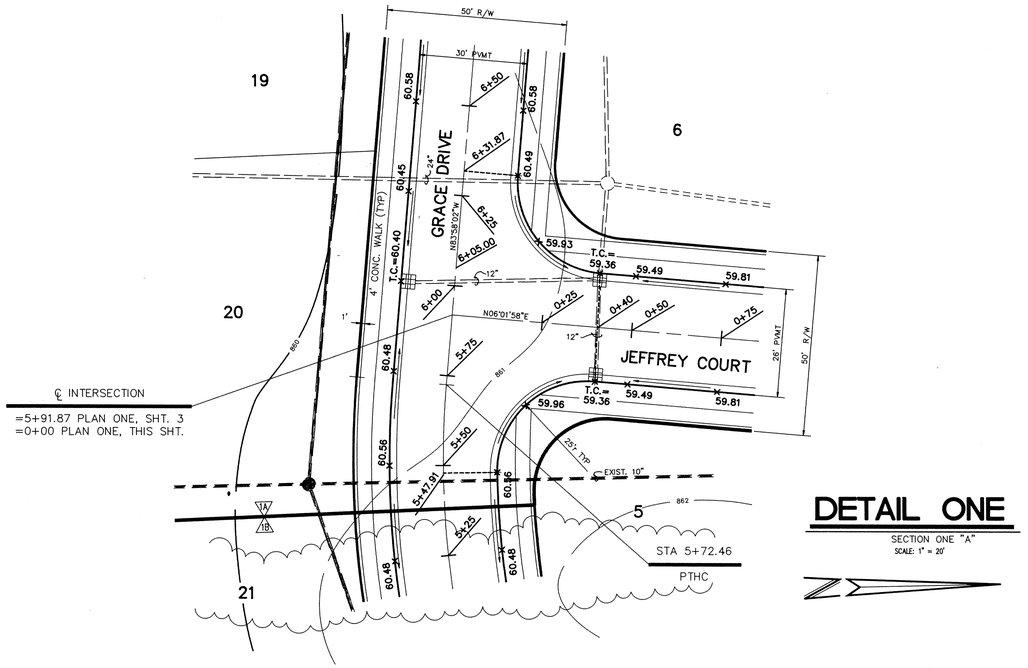


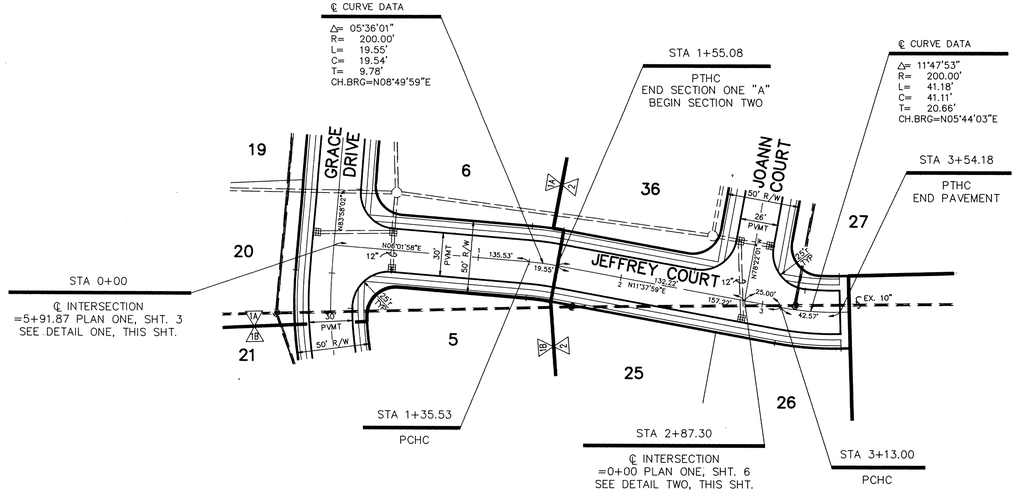
PROFILE ONE

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



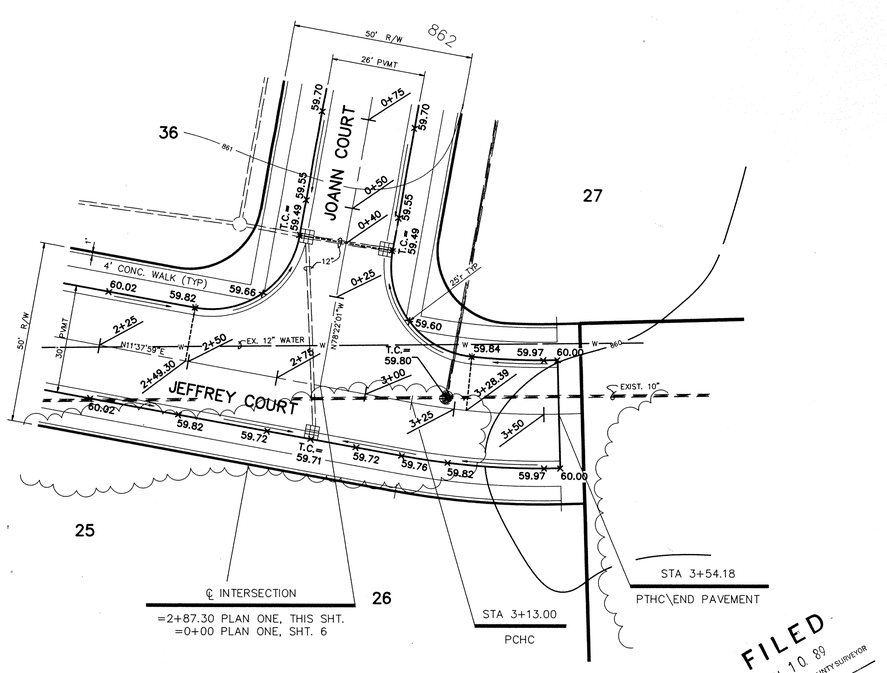
DETAIL ONE

SECTION ONE "A"
SCALE: 1" = 20'



PLAN ONE

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



DETAIL TWO

SECTION TWO
SCALE: 1" = 20'

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NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

FILE NAME: RM\89385C-4.dwg

CERTIFIED BY:

DATE

REVISIONS	
9-8-89 REV. PER T.A.C.– REV GRDS. 0+00 thru 1+75	RJS
10-9-89 MISC. REV. PER DRAFT. CHK.	RJS
10-11-89 REV. SEC. 1 TO "1A" & "1B"	TRZ
10-12-89 REV. GRDS. PROFILE ONE & DETAIL TWO	RJS

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY: RJS
DRAWING TITLE: STREET – PLAN & PROFILE
SCALE: HORZ. 1"=50' VERT. 1"=5'
DATE: 8-17-89
CLIENT: C. P. MORGAN CO., INC.

ROHRER MEADOWS – SECTION 1 & 2

DWG. TYPE | FILE NUMBER
JOB NUMBER 89385-0000
SHEET: 4 OF 17

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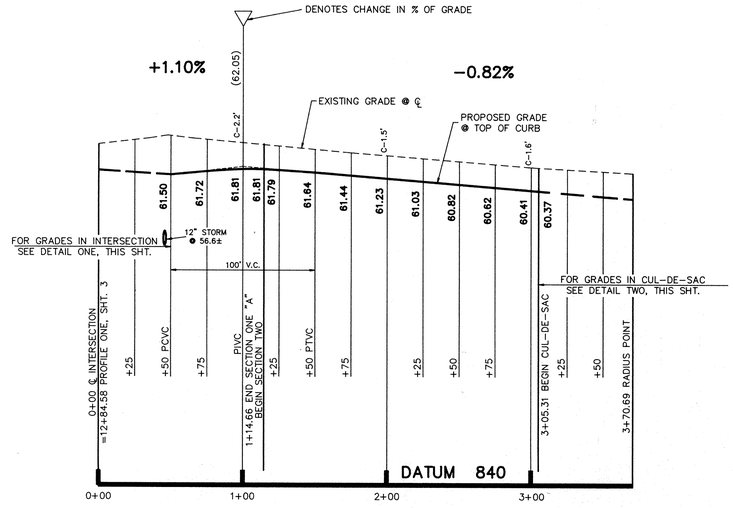
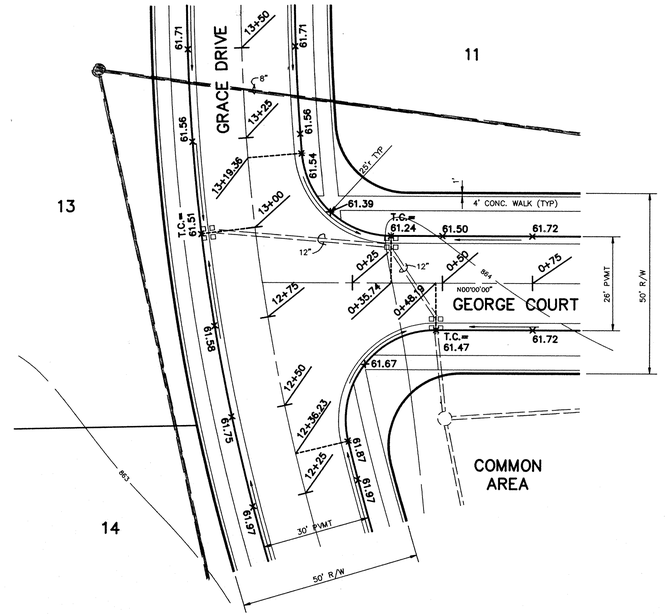
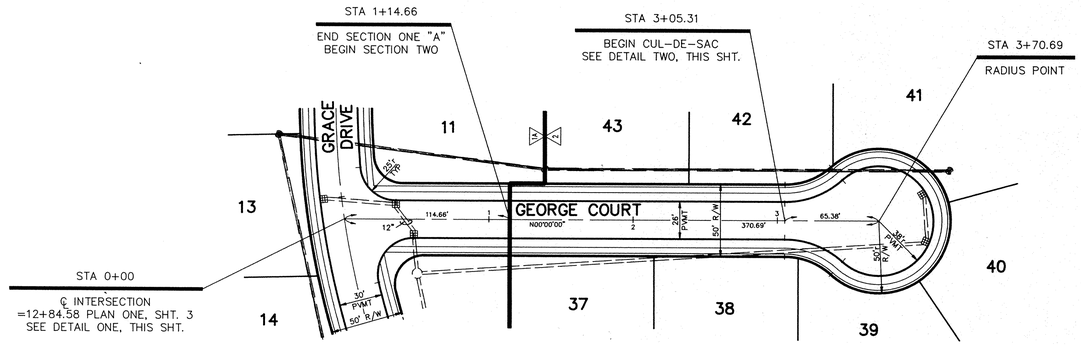


PROFILE · ONE



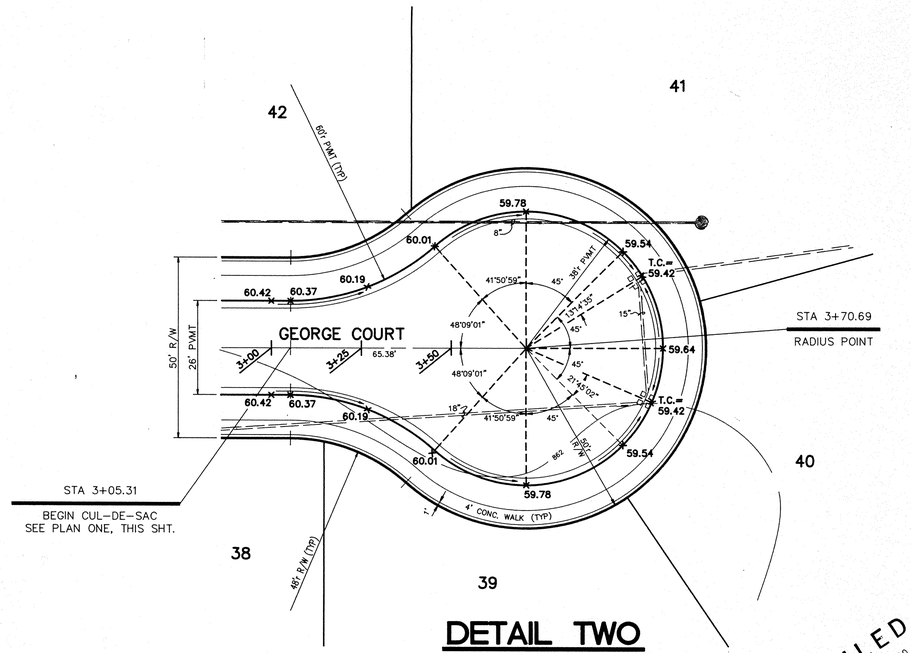
DETAIL ONE

SCALE: 1"=20'
(SECTION ONE "A")



PLAN ONE

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



DETAIL TWO

SCALE: 1"=20'
(SECTION TWO)

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NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR

FILE NAME: RM\89385C-5.dwg

ROHRER MEADOWS – SECTIONS ONE "A" & "B" & TWO

CERTIFIED BY:	REVISIONS		PAUL I. CRIPE, INC.	TECH CHK:	DRAWN BY: PAS	SCALE: AS NOTED	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.	DWG. TYPE	FILE NUMBER	SHEET: 5
DATE	10-9-89 MISC. REV. PER DRAFT. CHK.	RJS	7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777	DRFTNG. CHK:	DRAWING TITLE: STREET – PLAN & PROFILE				JOB NUMBER 89385-0000		OF 17
	10-11-89 REV. SEC. 1 TO 1A & 1B	TRZ	• CIVIL ENGINEERING • LAND SURVEYING • ARCHITECTURE • LAND PLANNING								
	11-9-89 REV GRDS. 0+00 TO 1+75	PAS									

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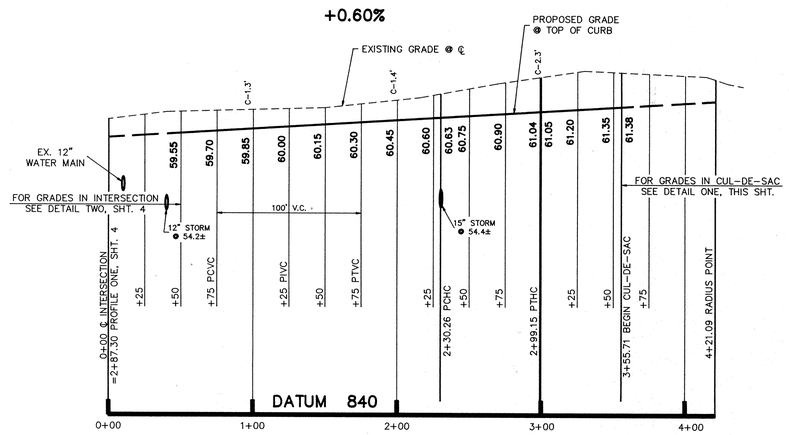
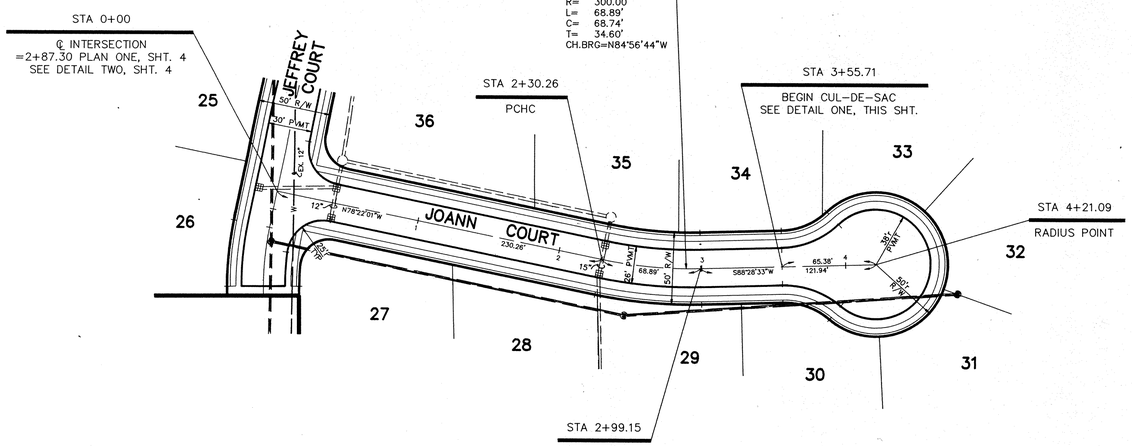


PROFILE ONE

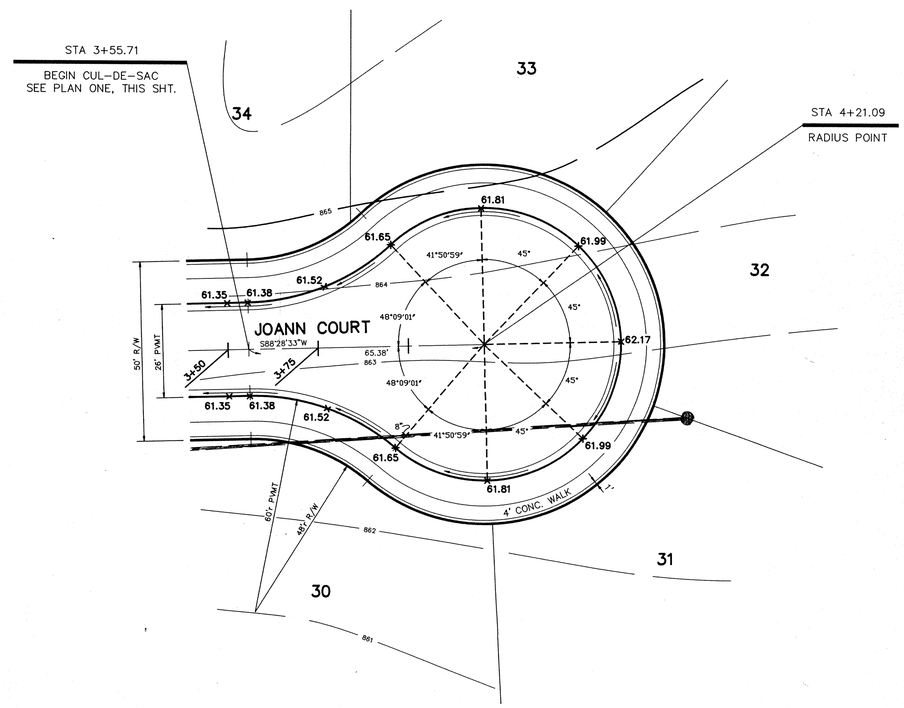


℄ CURVE DATA

Δ= 13°09'26"
R= 300.00'
L= 68.89'
C= 68.74'
T= 34.60'
CH.BRG=N84°56'44"W

PLAN ONE

SECTION TWO



DETAIL ONE

SECTION TWO

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BY

FILE NAME: RM\89385C-6

ROHRER MEADOWS – SECTIONS 1 & 2

CERTIFIED BY:

DATE

REVISIONS
10-9-89 MISC. REV. PER DRAFT. CHECK RJS
10-12-89 REV. GRDS. 0+00 THRU 1+75

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY:
SCALE: HORZ. 1"=50' VERT. 1"=5'
DATE: 8-17-89
CLIENT: C. P. MORGAN CO., INC.
DRAWING TITLE: STREET – PLAN & PROFILE
DWG. TYPE
FILE NUMBER
JOB NUMBER 8 9 3 8 5 – 0 0 0 0 0
SHEET: 6 OF 15

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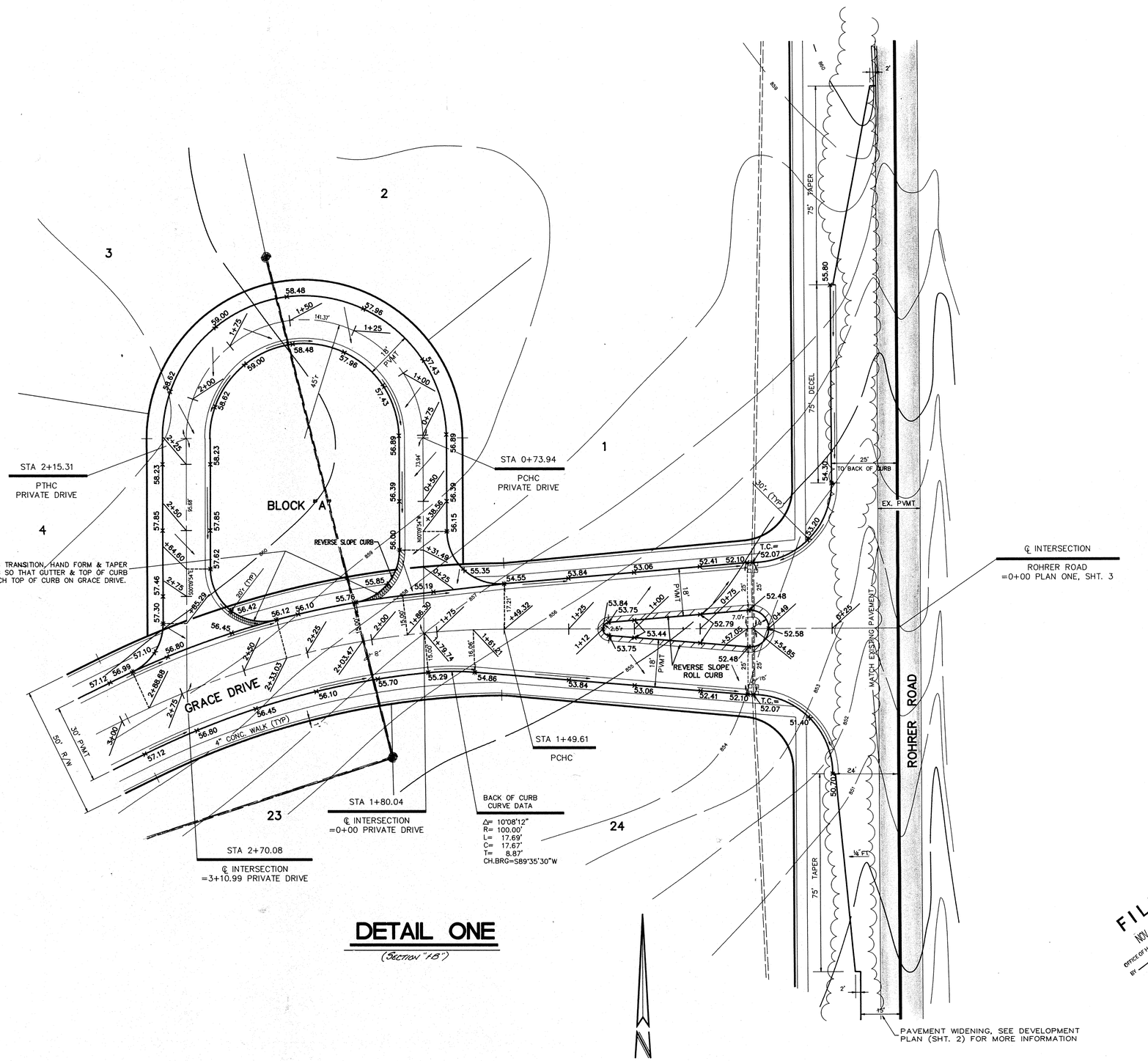

DETAIL ONE

(SECTION "AB")

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OFFICE OF HAMILTON COUNTY SURVEYOR
BY

FILE NAME: RM\893850-7

JOSEPH A. SHARP
REGISTERED
No. 15179
STATE OF
PROFESSIONAL ENGINEER

CERTIFIED BY: Joseph A. Sharp
9-15-89 DATE

REVISIONS	
9-8-89 REV. PER T.A.C.	JAS
10-9-89 MISC. REV. PER DRAFT CHECK	RJS

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:	DRAWN BY: JAS	SCALE: 1" = 20'	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.
DRFTNG. CHK:	DRAWING TITLE: STREET DETAIL			

ROHRER MEADOWS – SECTIONS 1 & 2

DWG. TYPE	FILE NUMBER	SHEET:
		7 OF 17
JOB NUMBER		
8 9 3 8 5 – 0 0 0 0		

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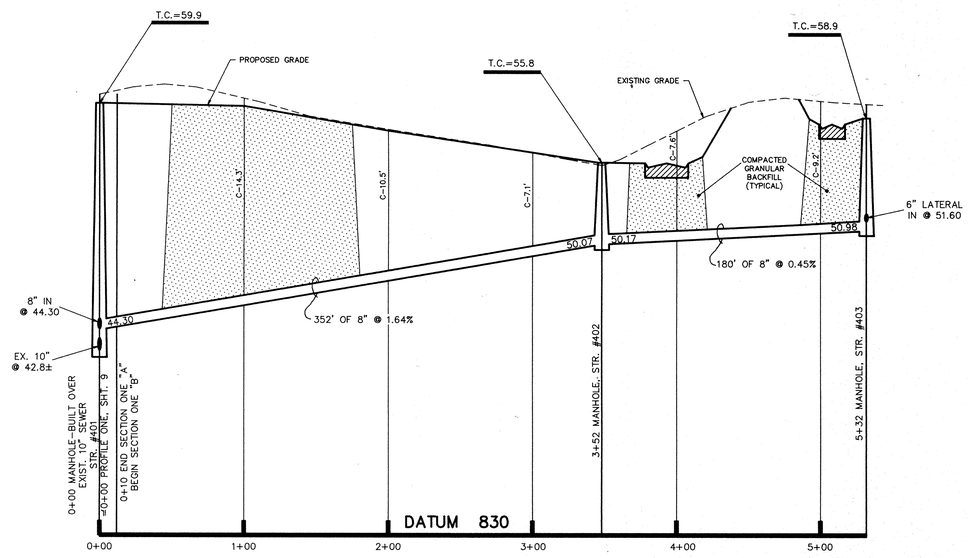
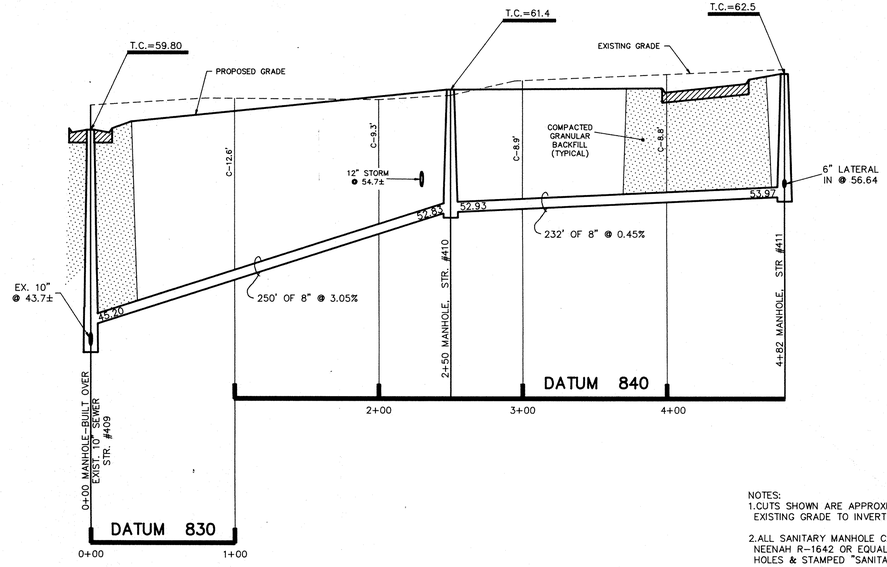
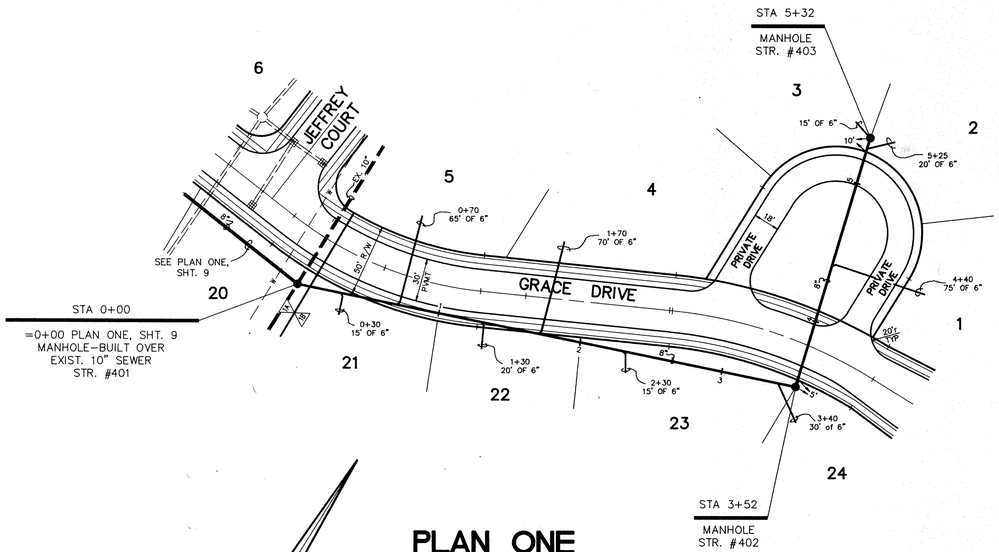


PROFILE ONE



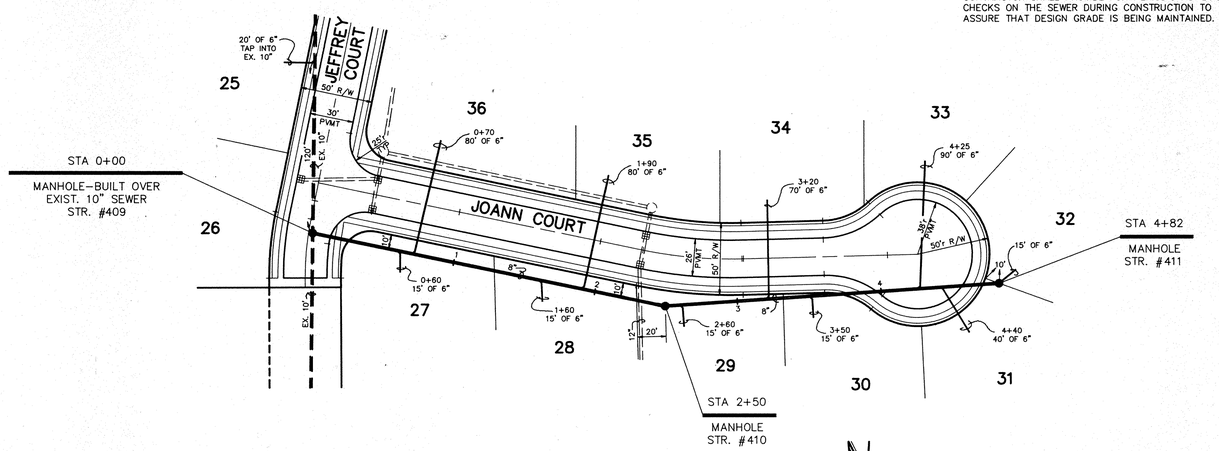
PROFILE TWO

NOTES:
1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
2. ALL SANITARY MANHOLE CASTINGS SHALL BE: NEENAH R-1642 OR EQUAL W/CONCEALED PICK HOLES & STAMPED "SANITARY".
3. CONTRACTOR SHALL VERIFY LOCATION & INVERT ELEVATION OF EXIST. SANITARY SEWER PRIOR TO START OF CONSTRUCTION.
4. A RED PAINTED STEEL FENCE POST IS TO BE PLACED @ FINISH GRADE DIRECTLY ABOVE END OF ALL LATERALS.
5. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AS-BUILT DRAWINGS TO THE ACCEPTING AGENCY TO CERTIFY THE ELEVATION AND SLOPE OF SANITARY SEWERS. SEWERS INSTALLED AT A GRADE LESS THAN REQUIRED BY THE AGENCY WILL NOT BE ACCEPTED. CONTRACTOR SHALL PROVIDE FOR PERIODIC AS-BUILT CHECKS ON THE SEWER DURING CONSTRUCTION TO ASSURE THAT DESIGN GRADE IS BEING MAINTAINED.



PLAN ONE

SECTIONS ONE "A" & "B"



PLAN TWO

SECTION TWO

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BY

FILE NAME: RM\89385E-8.dwg

ROHRER MEADOWS—SECTIONS 1 & 2

CERTIFIED BY:

DATE

REVISIONS	
10-9-89 REV. PER T.A.C. & DRAFT. CHK.	PAUL
10-11-89 REV. SEC. ONE TO ONE "A" AND ONE "B" (DENOTED)	TRZ
10-12-89 REV. T.C. OF STR. #409	PAUL
10-20-89 REV. PER T.A.C.	PAUL

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

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:	DRAWN BY: PAUL	SCALE: HORZ. 1"=50' VERT. 1"=5'	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.
DRFTNG. CHK:	DRAWING TITLE: SANITARY SEWER — PLAN & PROFILE			

DWG. TYPE	FILE NUMBER	SHEET:
		8 OF 17
JOB NUMBER: 8 9 3 8 5 — 0 0 0 0		

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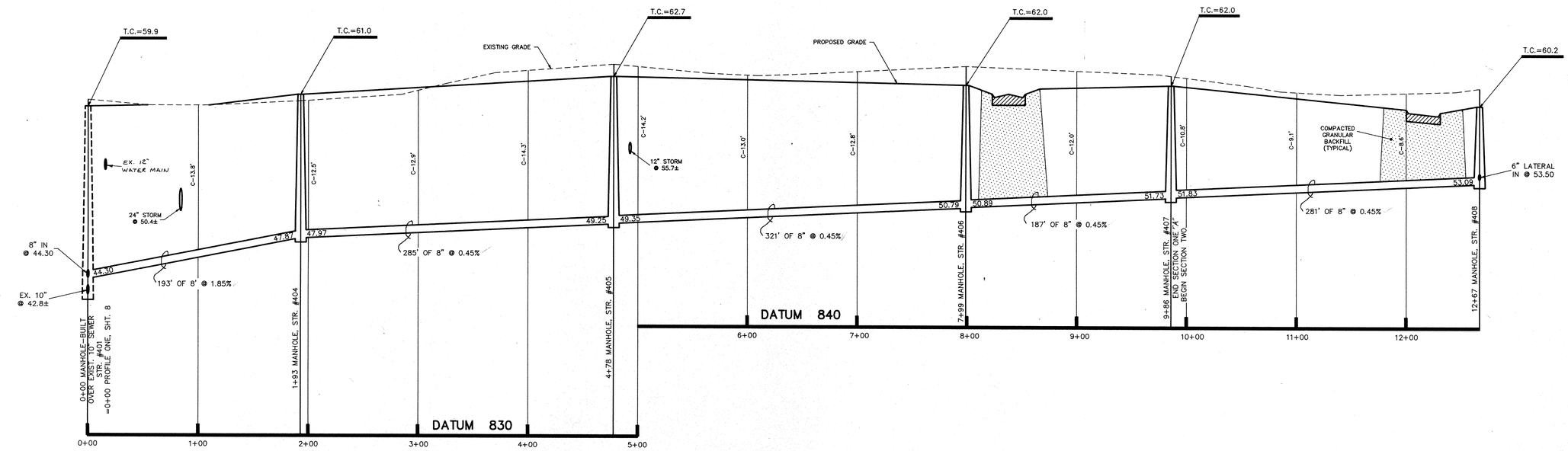
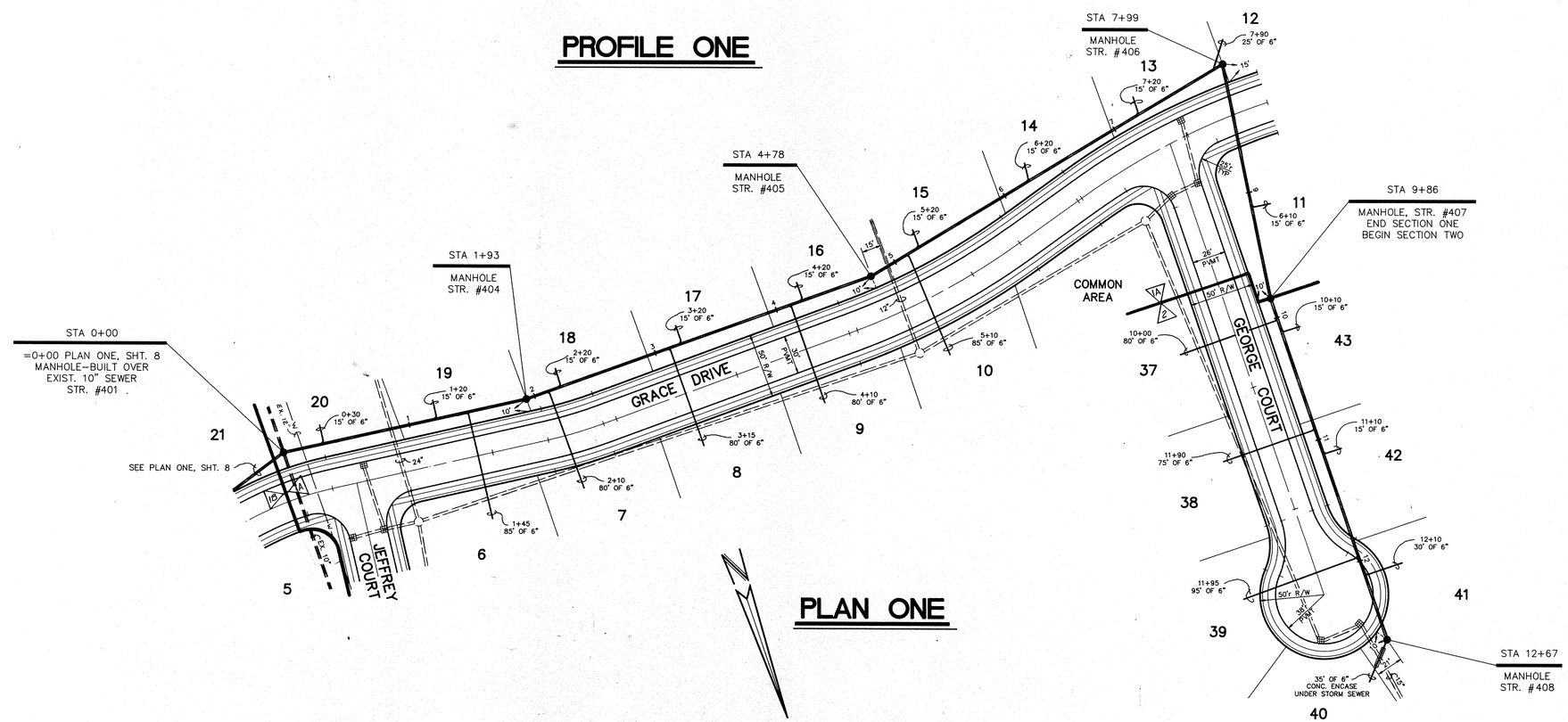


PROFILE ONE



PLAN ONE

NOTES:
1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
2. ALL SANITARY MANHOLE CASTINGS SHALL BE: NEENAH R-1642 OR EQUAL W/CONCEALED PICK HOLES & STAMPED "SANITARY".
3. CONTRACTOR SHALL VERIFY LOCATION & INVERT ELEVATION OF EXIST. SANITARY SEWER PRIOR TO START OF CONSTRUCTION.
4. A RED PAINTED STEEL FENCE POST IS TO BE PLACED @ FINISH GRADE DIRECTLY ABOVE END OF ALL LATERALS.
5. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AS-BUILT DRAWINGS TO THE ACCEPTING AGENCY TO CERTIFY THE ELEVATION AND SLOPE OF SANITARY SEWERS. SEWERS INSTALLED AT A GRADE LESS THAN REQUIRED BY THE AGENCY WILL NOT BE ACCEPTED. CONTRACTOR SHALL PROVIDE FOR PERIODIC AS-BUILT CHECKS ON THE SEWER DURING CONSTRUCTION TO ASSURE THAT DESIGN GRADE IS BEING MAINTAINED.

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REVISIONS
10-9-89 REV. PER T.A.C. & DRAFT. CHK. PAUL
10-11-89 REV. SEE'S "1A" & "1B" (Dental) TRE

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY: PAUL
DRAWING TITLE: SANITARY SEWER – PLAN & PROFILE
SCALE: HORZ. 1"=50' VERT. 1"=5'
DATE: 8-14-89
CLIENT: C. P. MORGAN CO., INC.

ROHRER MEADOWS–SECTIONS 1 & 2

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JOB NUMBER 8 9 3 8 5 – 0 0 0 0
SHEET: 9 OF 17

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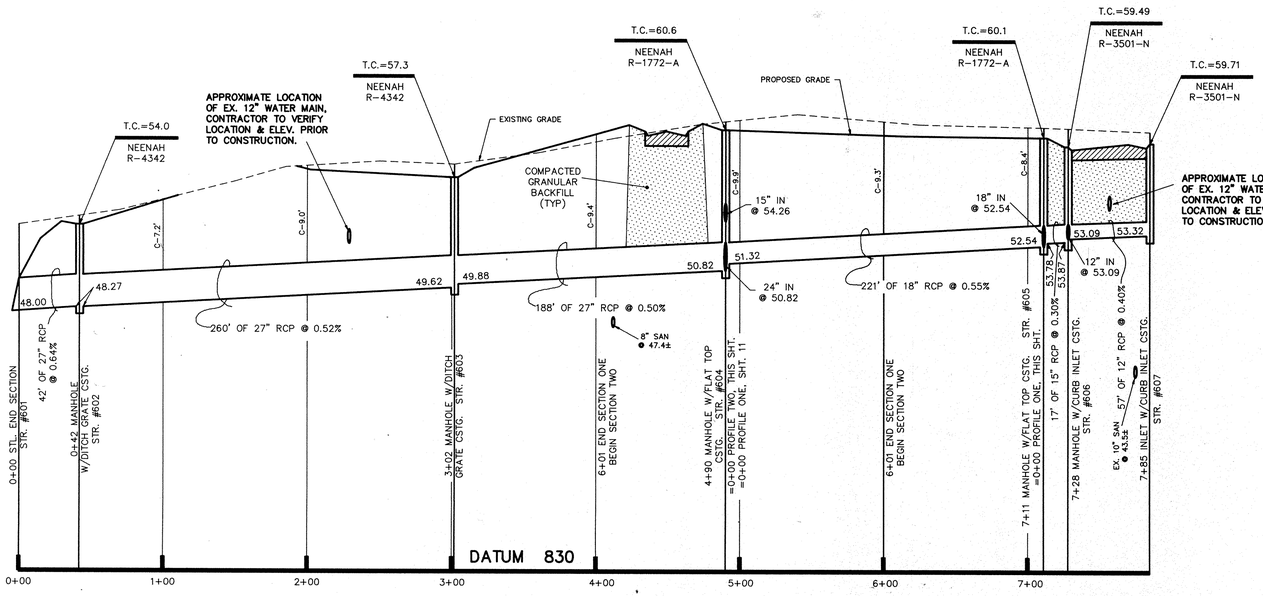
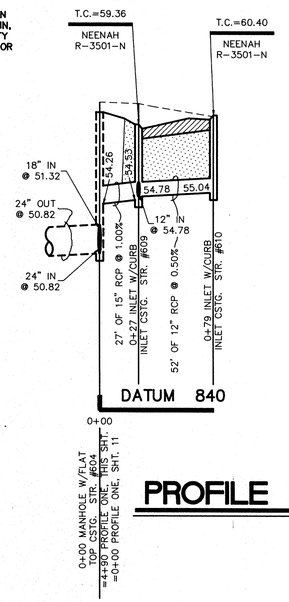
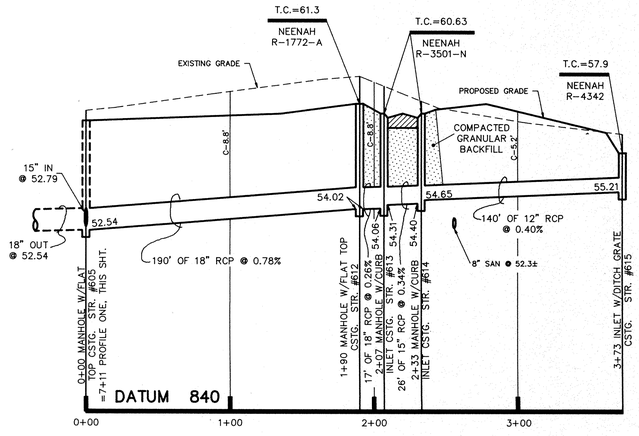


PROFILE ONE

NOTE:
1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
2. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.

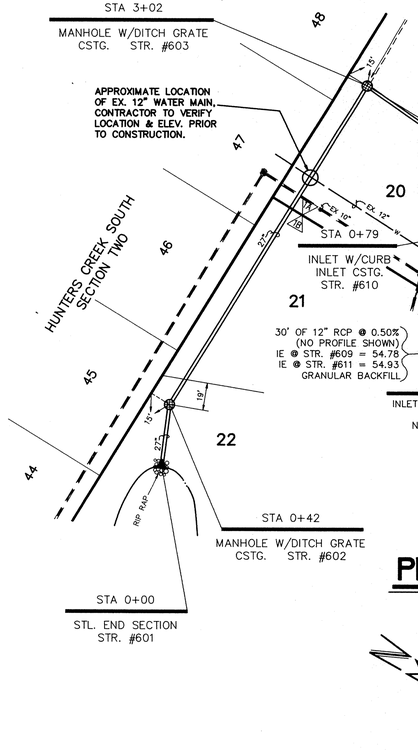


PROFILE TWO



PROFILE THREE

SECTION TWO

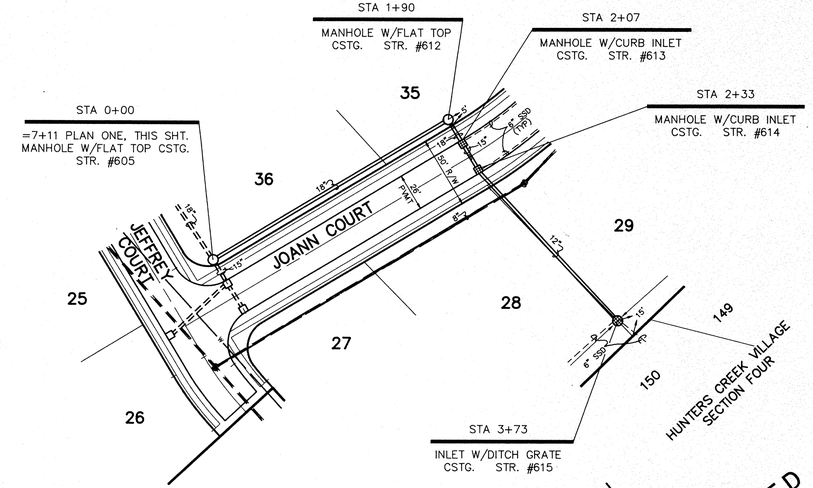


PLAN ONE

STR. #601 – #607

PLAN TWO

STR. #604–609–610–611



PLAN THREE

SECTION TWO

HAMILTON COUNTY INDIANA 1823
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BY

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ROHRER MEADOWS – SECTIONS 8 & 9

CERTIFIED BY:

DATE

REVISIONS	
9-8-89 REV. PER T.A.C.	TWD
10-9-89 REV. PER DRAFT. CHK.	TWD
10-11-89 REV. SEC. 1 TO "1A" & "1B"	TRZ
10-12-89 REV. INVERTS-STR. #606, #607, #608 (DUE TO EX. WATER MAIN)	TWD

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:	DRAWN BY: TWD	SCALE: HORZ. 1"=50' VERT. 1"=5'	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.	DWG. TYPE / FILE NUMBER / SHEET: 10
DRFTNG. CHK:	DRAWING TITLE: STORM SEWER – PLAN & PROFILE				JOB NUMBER: 8 9 3 8 5 – 0 0 0 0 0

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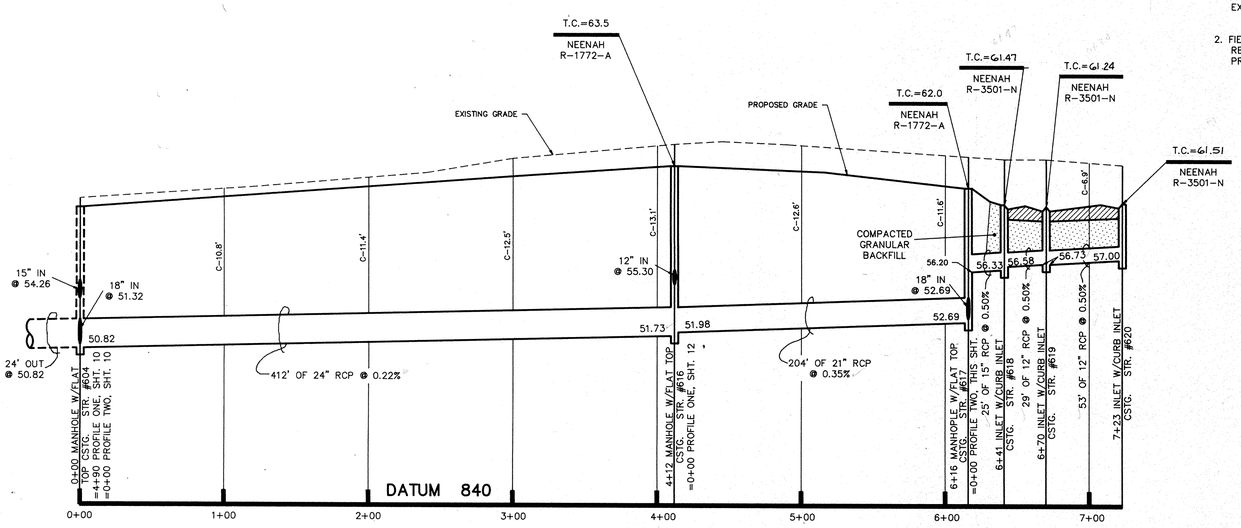
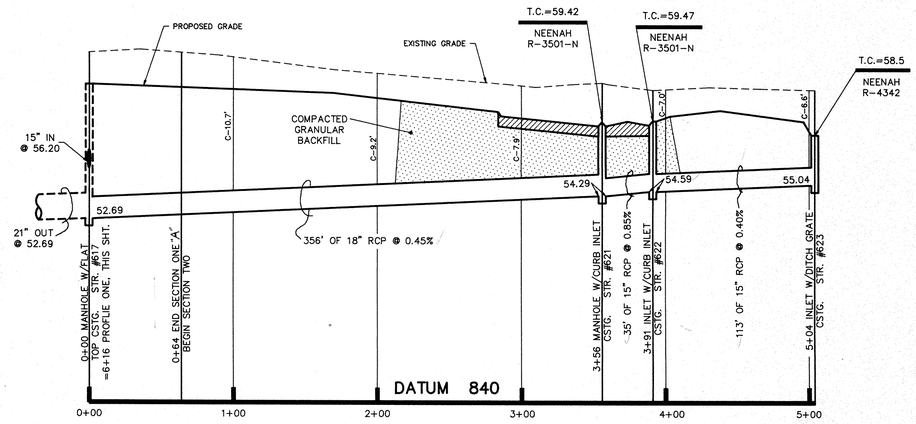
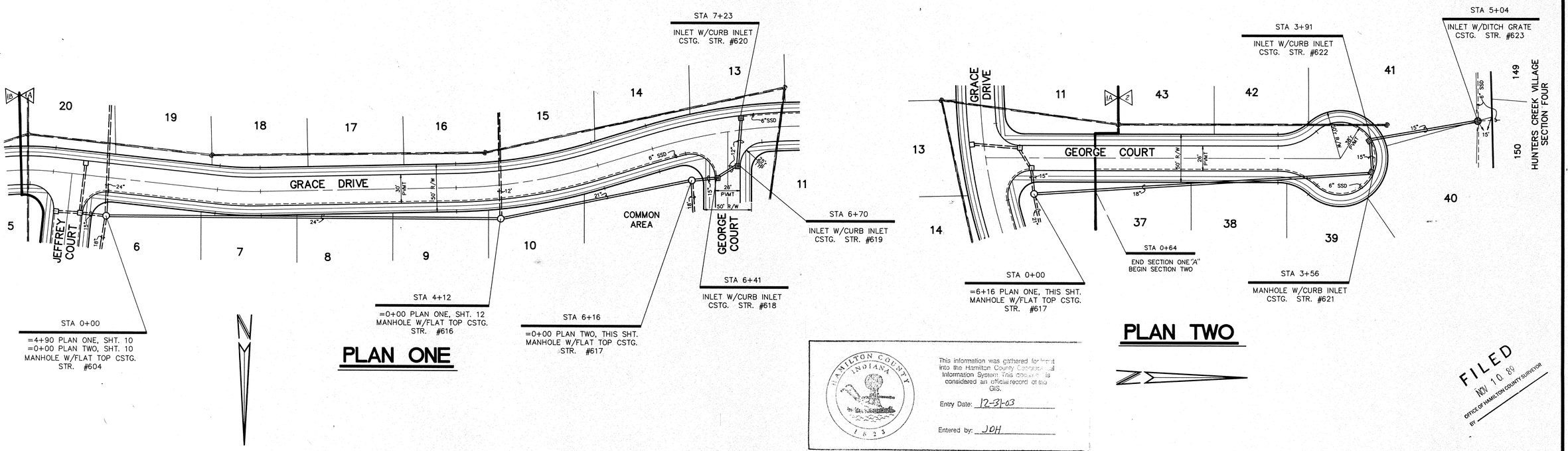
2. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE



PROFILE TWO



PLAN ONE

PLAN TWO

HAMILTON COUNTY INDIANA 1823
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Entry Date: 12-31-03
Entered by: JDH

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BY

FILE NAME: RM\89385F11.dwg

ROHRER MEADOWS – SECTIONS 1 & 2

CERTIFIED BY:
DATE

REVISIONS
9-8-89 REV. PROFILE TWO (LOWER PIPES) JWS
10-9-89 REV. PER T.A.C. & DRAFT. CHK. JWS
10-11-89 Rev. Sec's "1A" & "1B" (Deleted) TRL
11-9-89 REV. TC's (STR.#618,619 & 620) JWS

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY: JWS
DRAWING TITLE: STORM SEWER – PLAN & PROFILE
SCALE: HORZ. 1"=50' VERT. 1"=5'
DATE: 8-17-89
CLIENT: C. P. MORGAN CO., INC.

DWG. TYPE
FILE NUMBER
JOB NUMBER 8 9 3 8 5 – 0 0 0 0 0
SHEET: 11 OF 17

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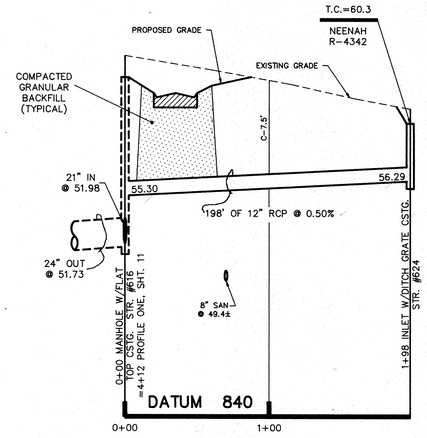
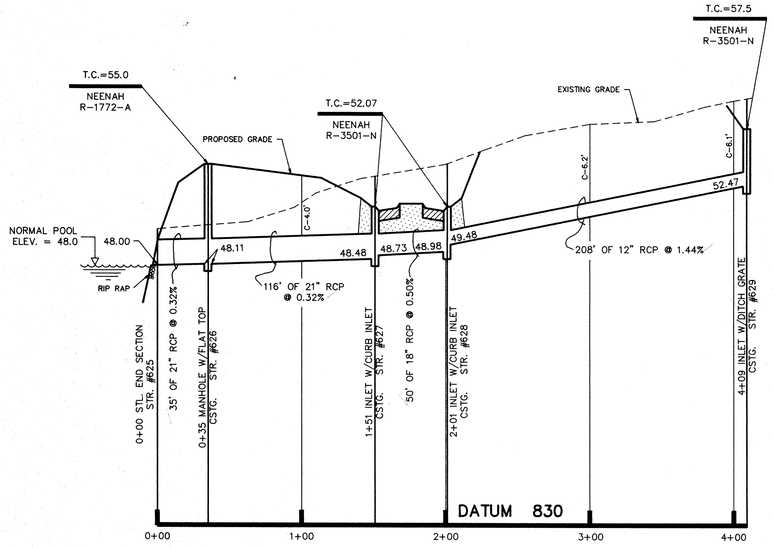
NOTE:

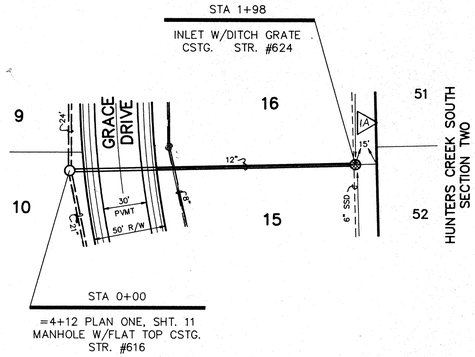
1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
2. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



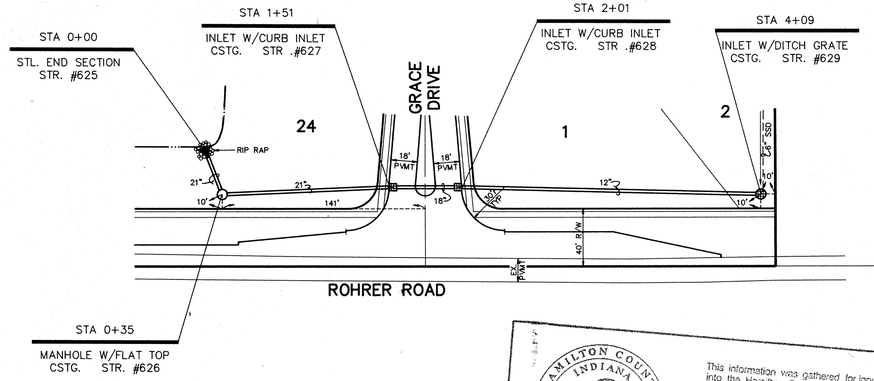
PROFILE ONE



PROFILE TWO



PLAN ONE



PLAN TWO

SECTION "1-B"

HAMILTON COUNTY INDIANA 1823

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Entry Date: 12-31-93

Entered by: JDH

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BY

FILE NAME: RW\89385F12.dwg

ROHRER MEADOWS – SECTIONS 1 & 2

CERTIFIED BY:	REVISIONS	PAUL I. CRIPE, INC.	TECH CHK:	DRAWN BY:	SCALE: HORZ. 1"=50' VERT. 1"=5'	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.	DWG. TYPE	FILE NUMBER	SHEET:
DATE	9-8-89 REV. PER T.A.C. (P-3) TAD	7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777	DRFTNG. CHK:	DRAWING TITLE: STORM SEWER – PLAN & PROFILE				JOB NUMBER 8 9 3 8 5 – 0 0 0 0		12 OF 17
	10-9-89 ADDITIONAL REV. PER T.A.C. & DRAFT. CHK. TAD	• CIVIL ENGINEERING • LAND SURVEYING • ARCHITECTURE • LAND PLANNING								

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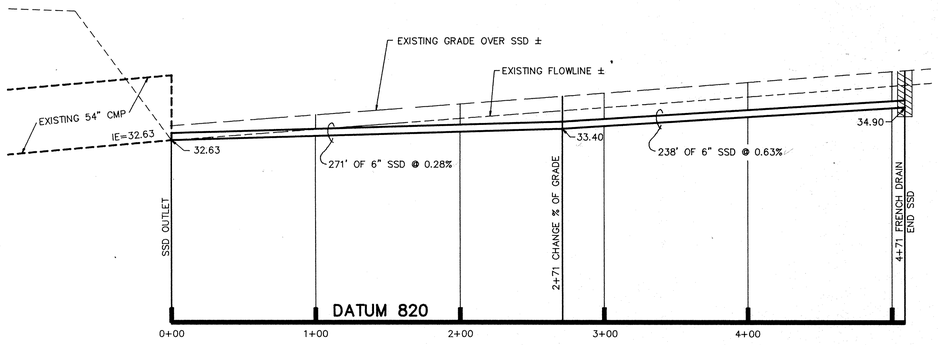
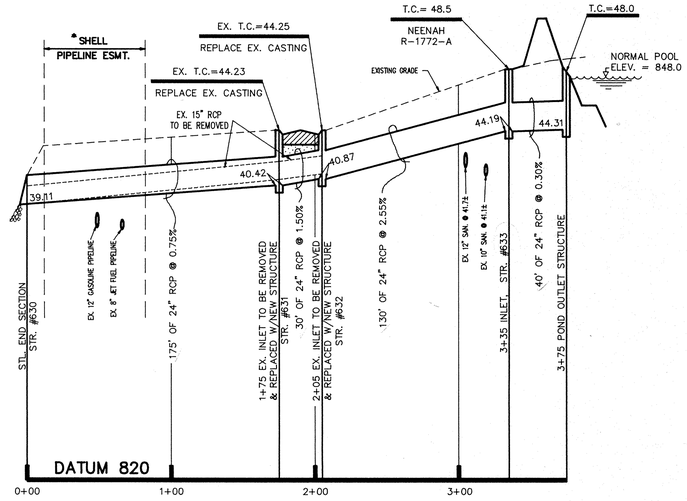
NOTE:

1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.
2. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE



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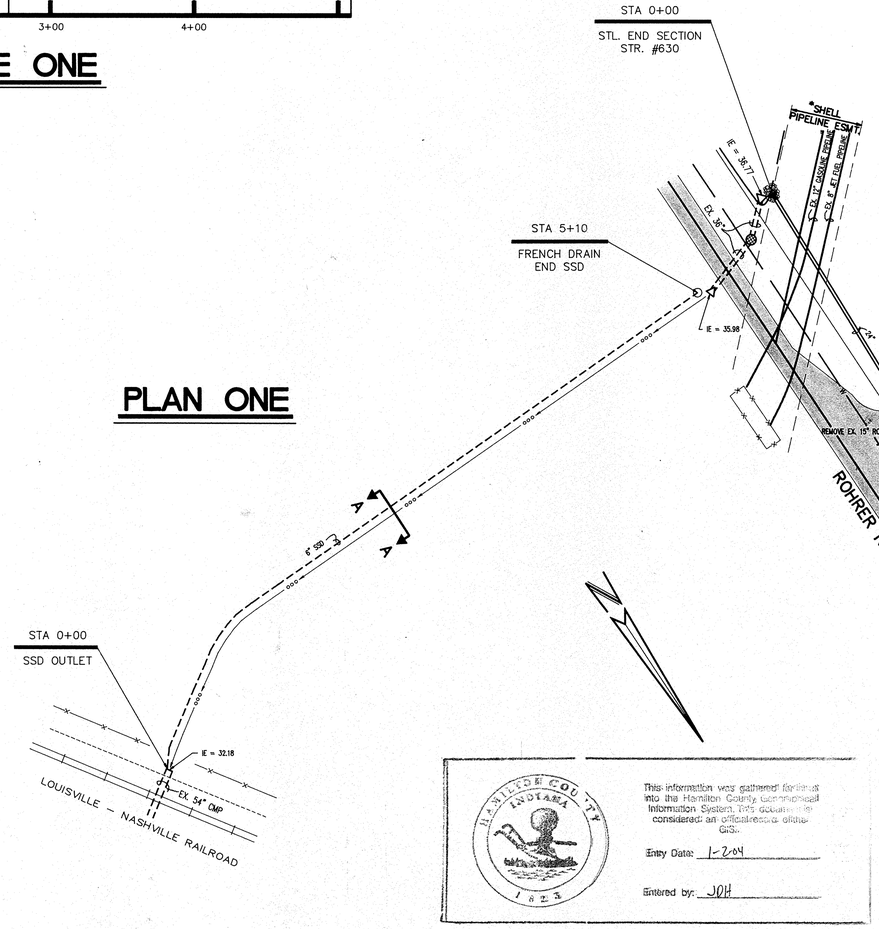
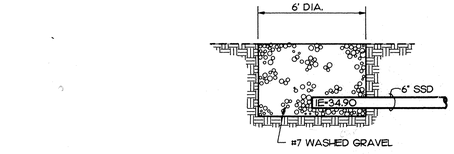
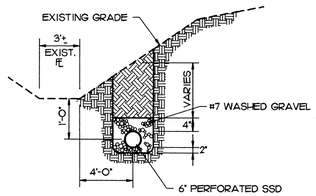


PLAN ONE

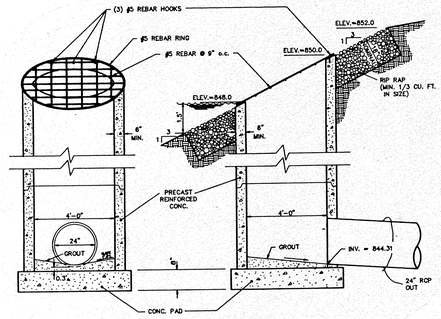
PLAN TWO



FRENCH DRAIN DETAIL
NO SCALE



SSD CROSS SECTION "A-A"
NO SCALE



POND OUTLET STRUCTURE
NO SCALE

* NOTE: SHELL PIPE LINE CORPATION TO BE NOTIFIED AT LEAST 48 HRS. PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE VICINITY OF THE PIPELINES. CONTACT SHELL'S MAINTENANCE FOREMAN AT 1-317-872-5113 TO HAVE A REPRESENATIVE PRESENT DURING CONSTRUCTION.

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OFFICE OF HAMILTON COUNTY SURVEYOR
BY

HAMILTON COUNTY INDIANA 1823

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Entry Date: 1-2-04

Entered by: JOH

FILE NAME: RM\89385F13.dwg

ROHRER MEADOWS

CERTIFIED BY:	REVISIONS	PAUL I. CRIPE, INC.	TECH CHK:	DRAWN BY: PAUL	SCALE: AS NOTED	DATE: 8-17-89	CLIENT: C. P. MORGAN CO., INC.	DWG. TYPE / FILE NUMBER	SHEET: 13
DATE	10-9-89 REV. PER T.A.C. PAUL	7172 GRAHAM ROAD INDIANAPOLIS, INDIANA 46250 (317) 842-6777	DRFTNG. CHK:	DRAWING TITLE: OFFSITE STORM SEWER - PLAN & PROFILE				JOB NUMBER 8 9 3 8 5 - 0 0 0 0	OF 17

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

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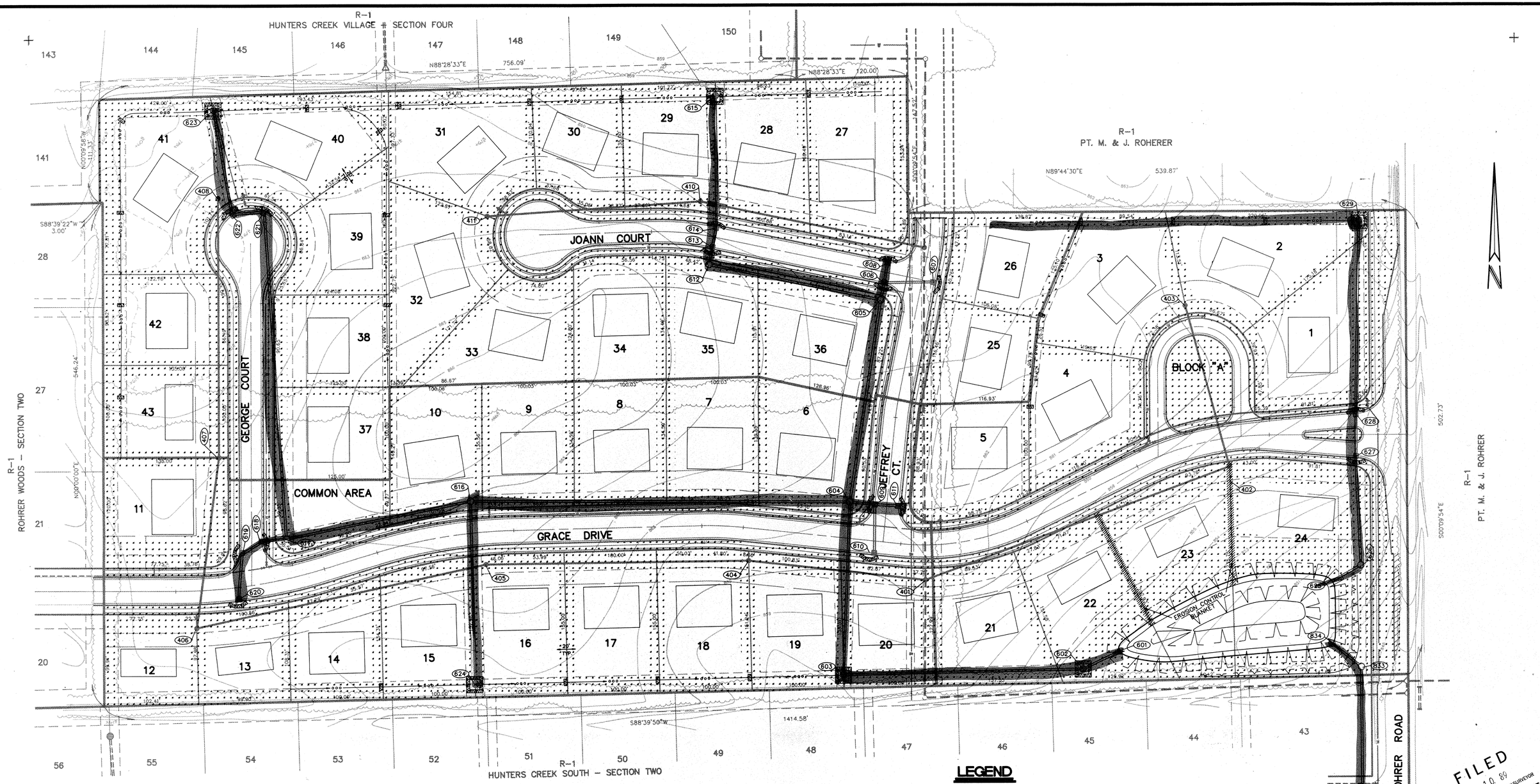


Erosion Control Blanket

Erosion control blanket shall be a machine-produced mat of 100% agricultural straw.

The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with polypropylene netting having an approximate 5/8" x 5/8" mesh, and on the bottom with a polypropylene netting with an approximate 1/4" x 1/4" mesh. The blanket shall be sewn together with cotton thread.

Straw erosion control blanket (or low velocity channel lining) shall be S150 as manufactured by North American Green, or equivalent. Erosion control blanket or channel lining shall have the following properties.

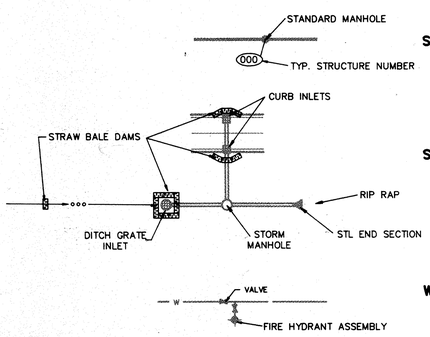
Material Content

Straw	100% (.5 lb/sq. yd.) (.27 kg/m2)
Netting	One side lightweight photodegradable (1 lb/1000 sq. ft. approx. wt.)
	One side heavyweight photodegradable (3 lb/1000 sq. ft. approx. wt.)
Thread	Cotton

Physical Specifications (Roll)

Width	6.5 feet (2m)
Length	83.5 feet (25.4m)
Weight	30 lbs + 10% (13.6 kg)
Area	60 sq. yds. (50m2)

LEGEND



TYP. BUILDING PAD

99
INDICATES PERMANENT SEEDING AREAS
ALL OTHER DISTURBED AREAS TO BE TEMPORARY SEEDING.

NOTES:

1. FOR EROSION CONTROL SPECIFICATIONS SEE SHEET 15.
2. FOR SEEDING TYPES AND SPECIFICIATIONS SEE SHEET 15.

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ROHRER MEADOWS
SECTIONS 1 & 2

FILE NAME: RM\89385H13.dwg

CERTIFIED BY:

DATE

REVISIONS

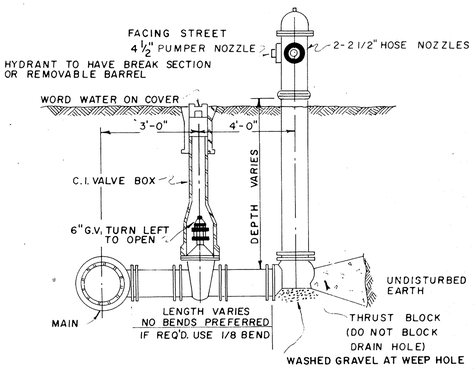
9-8-89 REV. PER T.A.C.	PAUL
10-9-89 REV. POND & STORM OUTLET	PAUL
10-11-89 Rev. Misc. Drafting	TRZ

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

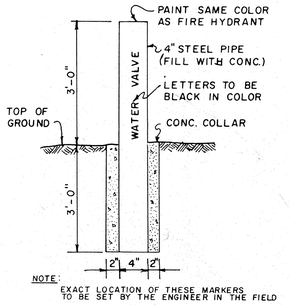
- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK:
DRFTNG. CHK:
DRAWN BY: PAUL
DRAWING TITLE: EROSION CONTROL PLAN
SCALE: 1" = 50'
DATE: 8-17-89
CLIENT: C. P. MORGAN CO., INC.

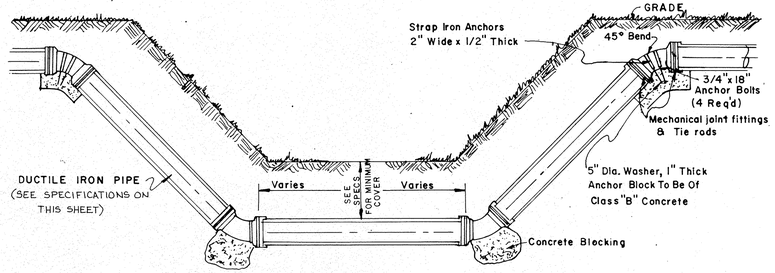
DWG. TYPE
FILE NUMBER
JOB NUMBER 8 9 3 8 5 - 0 0 0 0 0
SHEET: 14 OF 17



FIRE HYDRANT DETAIL



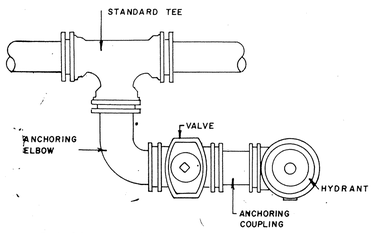
WATER VALVE MARKER DETAIL



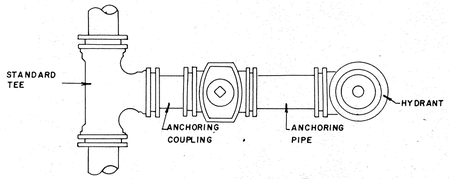
TYPICAL DETAIL FOR INSTALLING MAIN UNDER STREAM OR CULVERT

NO SCALE

ALSO FOR SPECIAL SEWER AND WATER CROSSINGS.



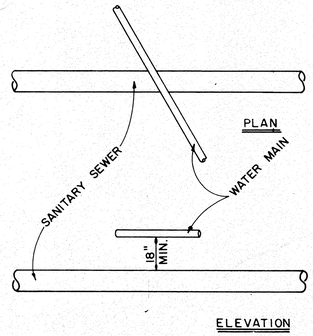
TYPICAL INSTALLATION PARALLEL TO MAIN



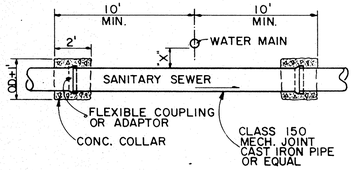
TYPICAL INSTALLATION PERPENDICULAR TO MAIN

HYDRANT INSTALLATION DETAILS

(DETAILS SHOWN IN PLAN VIEW)



ELEVATION

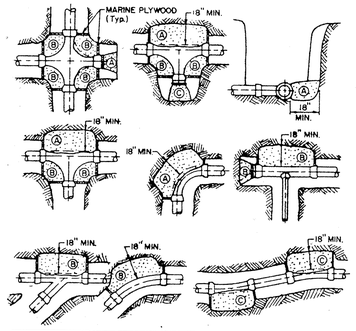


NOTE : Above specification applies when dimension "X" is less than 18" or water main lies below sanitary sewer.

NORMAL CROSSING

SPECIAL CROSSING

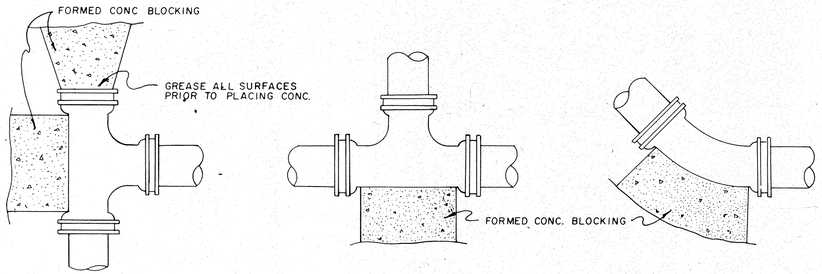
MINIMUM SEPARATION & CROSSOVER REQUIREMENTS FOR SANITARY SEWERS & WATER MAINS



MARK	POTABLE & NON-POTABLE SYSTEM-150 PSI TEST PRESS					
	4"	6"	8"	10"	12"	16"
A (90°)	1.1	2.6	4.6	7.5	10.4	18.2
B (45°)	0.7	1.4	2.5	4.0	5.7	9.3
C (22 1/2°)	0.3	0.8	1.3	2.0	2.9	5.3

1. ABOVE TABLE INDICATES CU. FT OF CONC REQUIRED WITH A SOIL PRESSURE OF 2000 P.S.F. MIN.
2. PLACE PAPER OR PLASTIC BETWEEN FITTING & CONCRETE

THRUST BLOCK TABLE



TYPICAL THRUST BLOCKING INSTALLATION

(DETAILS SHOWN IN PLAN VIEW)

1. **SCOPE**
   Furnishing and installing all specified pipe, valves, valve boxes, hydrants and fittings.

2. **MATERIALS**

   a. Pipe:
   Pipe may be ductile iron or PVC. Ductile iron pipe shall be in accordance with AWWA C-150. Pipe shall be tar coated and cement lined in accordance with AWWA C-104. Pipes shall have a 150 psi working pressure. PVC pipe shall be in accordance with ASTM D-2241 and AWWA C900, SDR 18 maximum. Working pressure shall be 150psi, SF to 250psi..

   b. Joints:
   Ductile iron pipe joints shall be super bell-tite push-on joint conforming to AWWA C-111, except where mechanical joints are specified.

   c. Fittings:
   Fittings for ductile iron shall be super bell-tite joints. Fittings for PVC shall conform to all pipe specifications mentioned above.

   d. Gate Valves:
   Gate valves shall conform to AWWA C-500. Valves shall be double disk, non-rising stem with O-ring stuffing box and opening counterclockwise. Each valve shall be enclosed by a cast iron valve box which extends to finish grade. All valve covers shall have the designation "water" cast in it.

   e. Hydrants:
   Hydrants shall be installed with 6" gate valve. Hydrant shall have one 4-1/2" and two 2-1/2" nozzles. Hydrant shall have 4-1/2" main valve and a 6" flanged connection. Hydrant shall open counterclockwise and conform with the majority of existing hydrants.

3. **RESPONSIBILITY**
   Contractor shall be responsible for all materials involved with water system and shall replace at his own expense all material found to be defective.

   Contractor shall check with Engineer prior to start of construction to verify date of plans. Minor changes may be made if all reviewing agency approvals are not granted before bidding. Changes in cost shall be negotiated prior to physical construction based on unit prices submitted on the contract documents.

   The Contractor shall contact all utility companies to locate all mains, conduits, service lines, etc. in the construction affected area. Existing utility structures are shown here in accordance with available information. the location and protection of utility structures and facilities, their support and maintenance during construction (in cooperation with applicable utility), is the express responsibility of the Contractor in the performance of the Contract and in the preparation of the bid.

4. **TRENCH**
   The top of pipe shall be a minimum 4'0" below finish grade.

5. **EXISTING UNDERGROUND STRUCTURES**

   a. Existing underground utilities are located on plans according to the best available information.
   b. Contractor is responsible for contacting necessary individual(s) for determining exact locations and coordinating construction accordingly.

6. **MAINTAINING TRAFFIC**
   Contractor shall perform construction in such a manner as to provide at least one traffic lane open to travel during construction activity. When construction activity ends for a day, all traffic lanes will be made passable. Warning signs alerting drivers to road condition will be placed beside all approaching lanes if road has not been restored to original conditions at the end of construction for any day.

7. **INSTALLATION**
   All pipe work construction will conform to AWWA C-600.

8. **BACKFILL**
   Trenches passing under a driving surface shall be backfilled with granular material.

9. **DISINFECTION**

   a. Prior to being placed in service, all new water lines shall be disinfected in accordance with AWWA C-601.
   b. Spot disinfection will be required at connections to existing mains.
   c. Samples must be submitted to the State Board of Health Laboratory for acceptance. This procedure shall be repeated at no additional cost to owner until acceptance is granted.

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NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

JOSEPH A. SHARP
REGISTERED
NO. 15179
CERTIFIED BY
INDIANA
PROFESSIONAL ENGINEER

Joseph A. Sharp
9-15-89 DATE

REVISIONS	
9-8-89 REV PER T.A.C.	KWK

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

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TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
	KWK	NONE	8-17-89	C.P. MORGAN CO., INC.
DFTNG. CHK.	DRAWING TITLE			
	WATER MAIN - DETAILS & SPECS.			

ROHRER MEADOWS - SEC. 1 & 2

DWG. TYPE	FILE NUMBER	SHEET
		15
JOB NUMBER		OF 17
8 9 3 8 5 — 0 0 0 0 0		

McDowell/James Printing, Inc.

DIMENSIONS OF GALVANIZED STEEL END SECTIONS FOR ROUND PIPE

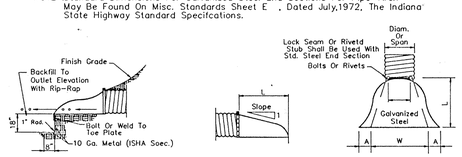
PIPE DIA. IN INCHES	DIMENSIONS IN INCHES L 1 1/2	W2	APPROX. SLOPE	BODY
12	29	24	2 1/2	1 pc.
15	31	30	2 1/2	1 pc.
18	34	36	2 1/2	1 pc.
24	41	48	2 1/2	1 pc.
30	51	60	2 1/2	1 pc.
36	60	72	2 1/2	2 pc.
42	69	84	2 1/2	2 pc.
48	78	90	2 1/4	2 pc.
54	84	102	2	2 pc.
60	87	114	1 3/4	3 pc.
66	87	120	1 1/2	3 pc.
72	87	126	1 1/2	3 pc.
78	87	132	1 1/4	3 pc.
84	87	138	1 1/16	3 pc.

PIPE DIA. IN INCHES	GAGE	DIMENSIONS IN INCHES 'A' t	'B'(MAX.)	'M' t
12	16	6	6	6
15	16	7	8	6
18	16	8	10	6
24	16	10	13	6
30	14	12	16	6
36	14	14	19	9
42	12	16	22	11
48	12	18	27	12
54	12	18	30	12
60	12	18	33	12
66	12	18	36	12
72	12	18	39	12
78	12	18	42	12
84	12	18	45	12

STD. PIPE SIZE & CONN. USAGE GALVANIZED STEEL PIPE	
Type Conn.	Round
#1	12" Thru 24"
#2	30" Thru 36"
#3	42" Thru 84"
	Pipe – Arch
#2	18"x11" Thru 58"x36"
#3	65"x40" Thru 85"x54"

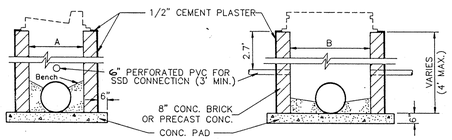
STANDARD CONNECTIONS : Type # 1 Shall Be Connector Lug With threaded Rod.
Type # 2 Shall Be Threaded Rod With Rod Holder.
Type # 3 Shall Be Riveted Or Bolted Connection

NOTE :Standard Dimensions For Galvanized Steel End Sections For Pipe–Arch May Be Found On Misc. Standards Sheet E , Dated July,1972, The Indiana State Highway Standard Specifcations.



STANDARD STEEL END SECTION DETAIL

Scale : None



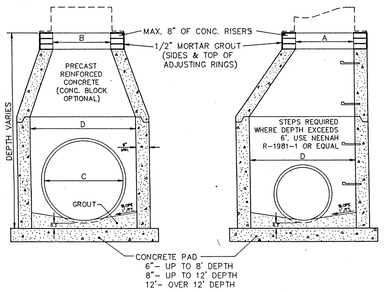
SHALLOW INLET DETAIL

NO SCALE

CASTING	A	B
R-3501-N	24"	24"
R-1642	27"ϕ	
R-1772-A	25"ϕ	
R-4342	24"ϕ	

C	D
21"	4'–0"
24"	4'–0"
27"	4'–0"
30"	4'–4"
36"	5'–0"
42"	5'–4"
48"	6'–0"
54"	6'–6"

NOTE: STRUCTURES TO BE CIRCULAR UNLESS OTHERWISE SPECIFIED.

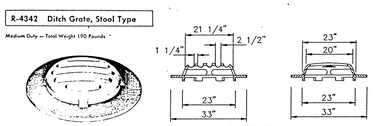


STORM MANHOLE

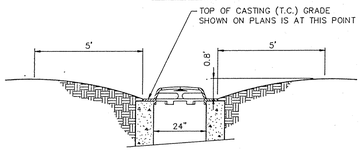
NO SCALE

R-4342 Ditch Grate, Steel Type

Medium Duty – Total Weight 190 Pounds

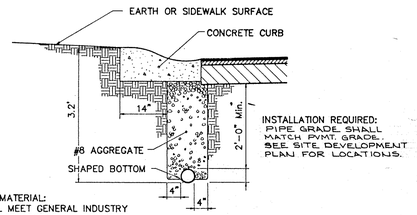


SECTIONS



DITCH GRATE CASTING SETTING DETAIL

NO SCALE

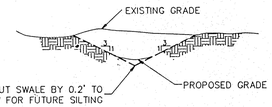


INSTALLATION REQUIRED: PIPE, GRADE, SHALL MATCH PLAT GRADE. SEE SITE DEVELOPMENT PLAN FOR LOCATIONS.

PIPE MATERIAL: SHALL MEET GENERAL INDUSTRY STANDARD FOR CLAY, CONCRETE, CORRUGATED METAL, PLASTIC, OR APPROVED EQUAL, OPEN JOINT OR PERFORATED.

PIPE UNDERDRAIN DETAIL

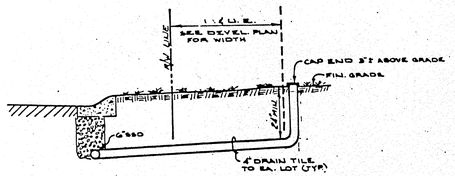
NO SCALE



UNDERCUT SWALE BY 0.2' TO ALLOW FOR FUTURE SILTING

TYPICAL SWALE DETAIL

NO SCALE



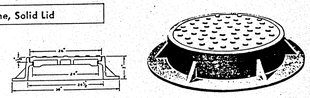
TYPICAL UNDERDRAIN LATERAL

NO SCALE

R-1642 Manhole Frame, Solid Lid

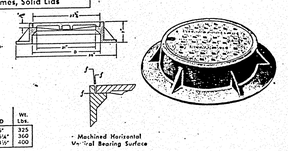
Heavy Duty
Total Weight 400 Pounds
Specify:
1. Regular or machined bearing.
2. Type D lid design as shown.

Also available in non-rocking design (see page 7 for details). Type B, C or E lids also available. Specify preference. (See page 8 for details.)



R-1772 Series Manhole Frames, Solid Lids

Heavy Duty
Specify:
1. Catalog number.
2. Ground, machined, or non-rocking bearing surfaces.

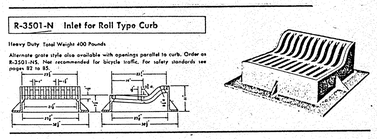


Catalog No. Standard Design See 2 Above	Machined Horizontal Vertical Bearing	D	Wt. Lbs.
R-1772-A	R-1772-AVH	25"	325
R-1772-B	R-1772-BVH	25¼"	360
R-1772-C	R-1772-CVH	24½"	400

R-3501-N Inlet for Roll Type Curb

Heavy Duty Total Weight 400 Pounds

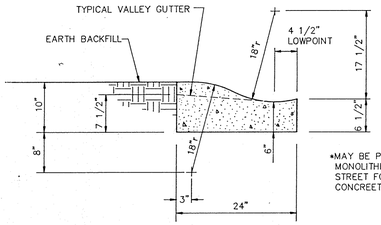
Alternate grate style also available with openings parallel to curb. Order as R-2501-MS. Not recommended for bicycle traffic. For safety standards see pages 82 to 85.



CASTING NOTE:

SEWER CASTINGS SPECIFIED IN THESE PLANS ARE NEENAH FOUNDRY CO. CASTINGS. EQUAL CASTING TYPES BY EAST JORDAN IRON WORKS, INC. MAY BE SUBSTITUTED. LISTED BELOW ARE ACCEPTABLE E.J.I.W. SUBSTITUTIONS.

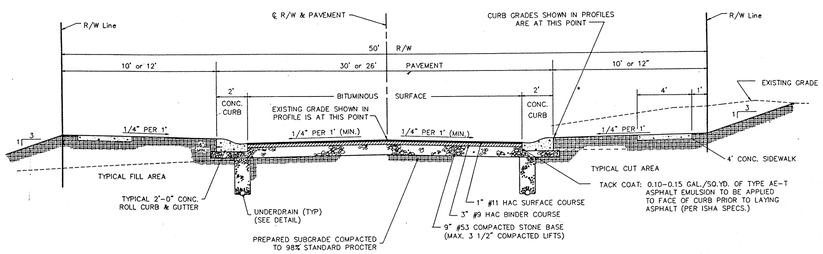
NEENAH	E.J.I.W.
R-3501-N	7490M1
R-1642	1040
R-1772-A	1022-1HD
R-4342	6488



*MAY BE POURED MONOLITHIC WITH STREET FOR CONCREET STREET.

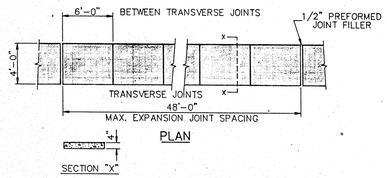
TYPICAL CURB DETAIL WITH VALLEY GUTTER

NO SCALE



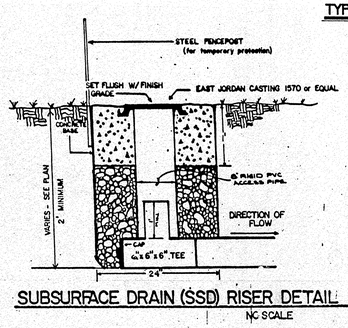
TYPICAL STREET CROSS SECTION

NO SCALE



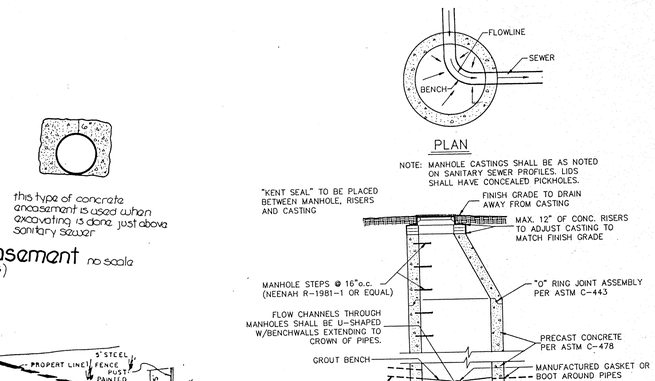
TYPICAL SIDEWALK DETAIL

NO SCALE



SUBSURFACE DRAIN (SSD) RISER DETAIL

NO SCALE



PRIVATE DRIVE CROSS SECTION

NO SCALE

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NOV 10 89
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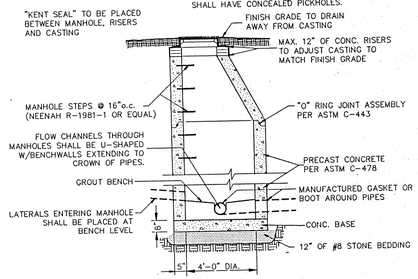
BY

PLAN

NOTE: MANHOLE CASTINGS SHALL BE AS NOTED ON SANITARY SEWER PROFILES. LIDS SHALL HAVE CONCEALED PICKHOLES.



STANDARD MANHOLE

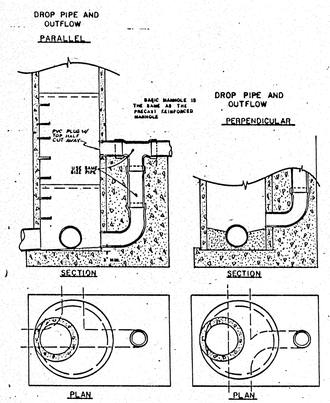
FOR SANITARY SEWERS AS ILLUSTRATED

NO SCALE

this type of concrete encasement is used when storm sewer is below sanitary sewer

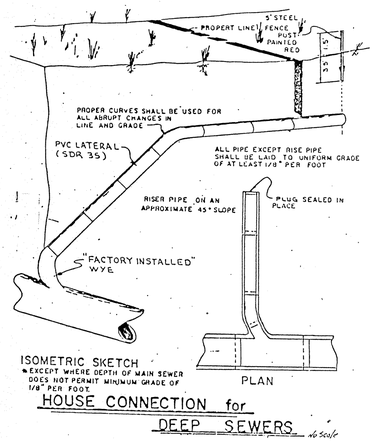
this type of concrete encasement is used when excavating is done just above sanitary sewer

Concrete Encasement no scale (for sanitary sewers)



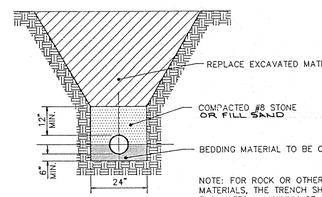
PRECAST DROP MANHOLE

NO SCALE



HOUSE CONNECTION for DEEP SEWERS

no scale



NOTE: FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHOULD BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED W/FILL SAND.

SANITARY SEWER PIPE BEDDING

(FOR FLEXIBLE PIPE, INCLUDING LATERALS)

NO SCALE

JOSEPH A. SHARP REGISTERED No. 15179 CERTIFIED LAND SURVEYOR INDIANA U.S.A.

9-15-89 DATE

REVISIONS	
9-6-89	REV. PER T.A.C.
10-9-89	ADDITIONAL REV. PER T.A.C.

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6772

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
	TWS	NONE	8-17-89	C.P. MORGAN CO., INC.
DFTNG. CHK.	DRAWING TITLE			
	STANDARD DETAILS			

DWG. TYPE	FILE NUMBER	SHEET
		16
JOB NUMBER		OF 17
8 9 3 8 5 — 0 0 0 0 0		

Joining Instrument Survey on file in the office of the Hamilton County Surveyor's Office, One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

McDowell/James Printing, Inc.

CLEARING AND GRUBBING

A. Clearing and grubbing shall consist of cutting, removal and satisfactory disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated), and other material on the project site and within and boundary as shown on the Construction Documents and/or as designated by "construction limits".

B. All "unsuitable material" from clearing operations stated above shall be removed to disposal area(s) off of the project site; unless a "Bury Pit" shall be utilized in an area where it shall not be beneath building areas and/or pavement areas and shall not be located in an area where storm drainage structures shall be located or where impoundment of surface drainage may occur.

C. Materials shall not be disposed of by burning unless approved by the local Fire Marshall.

TREE REMOVAL AND PROTECTION

A. Trees shall be removed from the project site only where the area is to be occupied by road and surfaced areas

B. Trees shall be removed from the project site as directed by the developer, and so designated.

C. Trees shall be removed from the project site where they interfere directly with the placement of storm or sanitary sewers, and that such excavation is or will be fatal to such adjacent trees.

D. The Contractor shall endeavor to save and protect trees of value and worth which do not impair construction of improvements as designated. In the event cut or fill exceeds 0.5 foot over the roof area, the developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.

E. The Contractor shall be responsible for determining the method for protection of tops, trunks and roofs of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any adjacent work is started. Earth or material and equipment shall not be stockpiled or stored within the spread of branches. Branches which need to be removed or are broken shall be neatly trimmed and scars shall be covered with tree paint.

STRIPPING OF TOPSOIL

A. The Contractor shall verify that all topsoil has been removed in the areas to be occupied by road, walks and designated building areas. Topsoil shall be removed to a depth of six (6) inches or deeper, if necessary, to remove vegetative matter where required.

B. Topsoil shall be kept separated from suitable fill materials and shall not be used as fill under pavement and/or building areas.

C. Topsoil shall be stored at a location where it does not interfere with construction operations. Excess topsoil shall be removed from the site.

D. Topsoil shall be reasonably free from subsoil debris and stones.

GRADING

A. The Contractor shall perform all grading operations to bring subgrades, after final compaction, to the required grades and sections for site improvement.

B. Subgrade shall be proofrolled with suitable equipment and all spongy and otherwise unsuitable materjal shall be removed and replaced with suitable material.

C. Subgrade shall be prepared in compliance with Section 207.02 of the I.S.H.C. standard specifications for all areas of street construction.

D. SEE PAVEMENT CONSTRUCTION

E. All fill material shall formed from soil free of deleterious material. Prior to placement of fill, a sample of the proposed fill material should be submitted to the soils engineer for his approval. The fill material should be placed in layers not to exceed eight (8") inches in loose thickness and should be spread and dried to a moisture content which will permit proper compaction.

SANITARY SEWER SPECIFICATIONS

1. Standard specifications of the City of Carmel shall apply for all work and materials.
2. Sanitary sewer pipe shall be PVC in accordance with ASTM D-3034 (S.D.R. 35) and ASTM 2321. PVC shall have grooved bell and gasket.
3. All sanitary manholes shall be "precast concrete" manholes in accordance with ASTM C-478. Number 8 stone shall be used as a levelling bed under manholes.
4. The type of new manhole ring and cover shall be as specified on the standard detail sheet of these plans. Bismatic Coating shall be applied around each manhole joint from 6" above to 6" below each joint.
5. The casting elevations are set by plan. However, the castings may be adjusted in the field by the Engineer's representative should a discrepancy occur between plan grade and existing grade. New manhole ring and cover shall be installed to established grade.
6. Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5 feet of paved roadways shall be backfilled with granular material. Backfill under sidewalks shall be granular unless the walks are constructed a minimum of 6 month after backfill has been in place.
7. The Contractor shall be responsible for verifying that all State Highways, City and County permits have been obtained by developer prior to start of construction.
8. The Contractor shall be required to furnish the Engineer with a set of prints, marked in red pencil, showing actual sewer location and invert, to include lateral location, depth and length. Such "as-built" prints must be received by the Engineer before the final contract payment can be authorized. The sanitary sewer laterals and stubs termination shall be indicated on the surface with a metal fence post set immediately above said termination point. Post shall be painted RED.
9. All sanitary sewer lines upon completion will be required to pass an infiltration weir test and a low pressure air test, unless otherwise directed by the Engineer. Said test shall be conducted according to NCPI Standard Method, and shall be witnessed by an Engineer
   Infiltration under test shall not exceed 200 gallons per inch of inside diameter of sewer pipe per mile of sewer in 24 hours and inclusive of all appurtenances within the section being tested such as manholes, house connections, etc.
10. Deflection tests shall be performed on all flexible pipe after the final backfill has been in place at least 30 days. No pipe shall exceed a vertical deflection of 5%. Deflection tests shall be observed by the engineer
11. All testing shall be observed by a Professional Engineer for certification to the City of Carmel.
12. The ends of laterals are to be plugged tight with plastic disc or cap capable of withstanding a low pressure air test without leakage.
13. Bedding shall be as shown on detail sheet.
14. Water and sewer line crossings and separations shall be in accordance with Ten States Standards as shown on the detail. Maintain a minimum 10' separation between Water Mains and Sanitary Sewers.
15. Trench shall be opened sufficiently ahead of pipe laying to reveal obstructions, and shall be properly protected and/or barricaded when left unattended.
16. No water shall be permited to flow into the sanitary sewer system. Contractor shall utilize a pump to keep the water level below the pipe. Pump discharge shall be directed to a storm outlet.
17. All sewer laterals shall be bedded the same as the main line sewer.
18. 48 hour notice shall be given prior to any testing on the sewer.
19. Manhole castings shall be stamped "SANITARY SEWER" (Neenah Casting R 1642 or equal).
20. All connections to existing manholes shall be core drilled.
21. All pipe openings in manholes, including laterals, shall be fitted with rubber rings or gaskets.

SPECIFICATIONS

The standard specifications for the City of Carmel shall apply for all work and materials.

STORM

1. Storm sewer pipes shall be reinforced concrete (R.C.P.) in accordance with ASTM-C-76, or corrugated metal pipe (CMP) one size larger in accordance with AASH spec. M-36.
2. Exceptional areas may require additional subsurface drainage. Street and storm sewer contractors shall include in their blds a unit cost per foot of installation of perforated plastic underdrain (see detail sheet 15). Location of such underdrain will be at the direction of the owner, or the engineer.
3. Rip-rap shall be installed at pipe inlets or outlets as the owner/engineer directs. Contractor shall include unit price for rip-rap, min 1/3 c.f. rock size, installed.
4. Storm sewer discharge areas and inverts are tentative and are subject to field modifications according to the unit prices submitted by the Contractor on the contract documents.
5. The Contractor shall provide at least 2' of cover over all storm sewers.
6. All drainage pipe and ditch outfalls to receiving streams shall be constructed in accordance with drawings, subject however, to any modification required by City of Carmel at the time installation is completed and to any adjustments needed for field conditions not adequately anticipated by the design drawings.
7. Casting Elevations are set by plan. However, the casting elevations are to be adjusted in the field by the Engineer's representative should a discrepancy occur between plan grade and existing grade.
8. All structures and all cuts under proposed paved areas shall be backfilled with granular material in addition to areas specifically noted on the plans. The granular material shall completely fill the trench in the area under the proposed pavement and shall extend at a one-to-one slope from the proposed pavement edge.
9. The Contractor shall contact all utility companies before any construction is started. He shall obtain the exact location of any utility lines and shall protect these lines during construction.
10. The Contractor shall be responsible for obtaining all State, Highway, City and County permits.
11. The Contractor shall be required to furnish the Engineer with a set of prints, marked in red, showing actual sewer location and invert, to include lateral location, depth and length. Such "as built" prints must be received by the Engineer before the final contract payment can be authorized.
12. The Contractor will be reimbursed for any additional labor and/or materials arising from the changes other than minor adjustments to manholes authorized by the Engineer. Reimbursement will be in accordance with unit prices submitted by the Contractor on the contract documents.

UTILITIES

A. Conduit shall be required for all electric and telephone lines under paved areas.

B. Granular backfill shall be required for all crossing of paved areas

CONCRETE CURB AND WALKS

A. See Detail Sheet for type and details.

B. Concrete shall be ready mixed Portland cement conforming to ASTM C-150, and water. Aggregate shall conform to ASTM C-33. Compressive strength of concrete at 28 days shall be 4000 p.s.i. Where required, reinforcement shall be welded steel wire fabric conforming to ASTM A-185.

C. Application

1. Place concrete only on a moist, compacted subgrade or base free from loose material. Place no concrete on muddy or frozen subgrade.
2. Concrete shall be deposited so as to require as little rehandling as practicable. When concrete is to be placed at an atmospheric temperature of 35 degrees or less, Paragraph 702.10 of the I.S.H.C. Specifications, 1978 edition, shall apply.
3. Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the I.S.H.C. Specifications, 1978 edition.

PAVEMENT CONSTRUCTION

A. All street construction shall be in accordance with the plans and specifications and conform to the minimum standards of General Ordinance 49, 1972, "Standards for Acceptance of Street and Bridges".

B. Subgrade shall be prepared in compliance with Section 207.02 of the I.S.H.C. standard specifications. No traffic shall be permitted on the prepared subgrade prior to paving.

C. Backfilling of utility trenches with granular material under pavement areas is required

Soil Erosion Control Summary

The following is a list in sequence of construction activities to control soil erosion:

1. Contractor shall install sediment traps and straw bale filters, as shown.
2. Grade the site (sides of swales, mounds and ponds to be seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent slope erosion. For temporary seeding the contractor shall utilize a fast growing seed of either oats, annual ryegrass, wheat or rye depending on time of year. Disturbed areas should be kept to a minimum at all times.
3. Contractor shall control mud accumulation on all streets surrounding project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, Calcium Chloride, Vegetative cover, spray on adhesives or other approved methods.
4. Maintain all filters and traps during construction to prevent any blockages from accumulated sediment. Additional seeding and straw bales may be required during construction as specified by Engineer or Soil Conservation Service. Rip rap shall be placed in areas of high velocity stream flow (minimum size 1/3 cu. ft.). Payment for additional straw bales shall be at the Contractors expense. Payment for additional rip rap (not shown on plans) and seeding shall be paid for on a unit basis.
5. Straw bale filters shall be installed at all storm inlets (including street inlets).
6. All proposed street areas shall be paved as soon as possible after subgrade is prepared.
7. All disturbed areas shall be seeded and mulched as specified below. This shall include all building pad fill areas.
8. Contractor shall remove all temporary erosion and sediment controls only when there is a sufficient growth of ground cover to prevent further erosion.

Seeding Specifications:

1. Swales/Grassed Waterways: Permanent seeding shall take place between March 1 and May 15 or from August 10 to October 15 with the following per acre:

   270# Adventure Fescue
   30# Creeping Red Fescue
   350# 12-12-12 Fertilizer
   4000# Mulch (Straw)

2. If grades are established between May 15 and August 10, a temporary seeding consisting of 40# of Annual Ryegrass, 25# Perennial Ryegrass, 35# Kentucky 31 Fescue and 10# Kentucky Bluegrass be planted per acre.
3. If grades are established between October 15 and December 30, either Rye (grain) or Wheat may be used at the rate of 2 bushels/Ac. Oats may be used for early spring planting at the rate of 3 bushels/Ac. All grains should be cut at time of permanent seeding. All grains should be cut prior to seed maturing.
4. If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
5. If grading occurs during December, January, or February, no seeding to take place till spring planting time; however, it is imperative that all sediment filters and traps are in place prior to bulk earthmoving or clearing.
6. All areas along street (approximately 15 foot behind curb) shall be seeded with temporary seed mixture.
7. All dates shown are nominal and may be varied with concurrence of the Engineer or the Local Soil Conservationist.

FILED
NOV 10 89
OFFICE OF HAMILTON COUNTY SURVEYOR
BY

JOSEPH A. SHARP REGISTERED No. 15179 CERTIFIED PROFESSIONAL ENGINEER

Joseph A. Sharp
9-15-89 DATE

REVISIONS
9-8-89 REV. PER TAC TAC

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

TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
DFTNG. CHK.	BP	NONE	8-17-89	C.P. MORGAN CO., INC.

DRAWING TITLE: STANDARD SPECIFICATIONS

ROHRER MEADOWS - SEC. 1 & 2

DWG. TYPE	FILE NUMBER	SHEET
	JOB NUMBER 8 9 3 8 5 — 0 0 0 0 0	17 OF 17

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