

PROPOSED SUBDIVISION IMPROVEMENTS FOR VILLAGE GREEN HEIGHTS PHASES 3, 4 & 5 (UNIT II)



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3-22-06	51A. PROJECT SPECIFICATIONS

PART OF SECTION 23, T 1 N, R 22 E
VILLAGE OF PLEASANT PRAIRIE
KENOSHA COUNTY, WISCONSIN

OWNER:
LAND AND LAKES DEVELOPMENT COMPANY
123 NORTH NORTHWEST HIGHWAY
PARK RIDGE, ILLINOIS 60068
847-825-5000 FAX: 847-825-0887

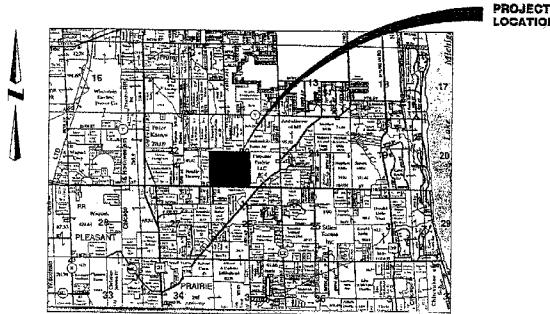
STANDARD SYMBOLS

PROPOSED

- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE OR INLET MANHOLE
- ⊞ CATCH BASIN
- ⊞ VALVE IN BOX
- ⊞ FIRE HYDRANT
- ⊞ HEADWALL OR FLARED END SECTION (F.E.S.)
- DITCH
- SWALE
- SANITARY SEWER
- STORM SEWER
- WATER MAIN
- SUMP PUMP COLLECTOR
- ⊙ SEE SHEET NUMBER
- TREE PROTECTION FENCE

EXISTING

- ▲ BENCHMARK
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE OR INLET MANHOLE
- ⊞ CATCH BASIN
- ⊞ VALVE IN VAULT
- ⊞ FIRE HYDRANT
- ⊞ HEADWALL OR FLARED END SECTION (F.E.S.)
- DITCH
- SWALE
- SANITARY SEWER
- STORM SEWER
- WATER MAIN



LOCATION MAP

BENCHMARK: CENTER OF SECTION 23, CONCRETE MONUMENT WITH BRASS CAP, ELEVATION=718.57

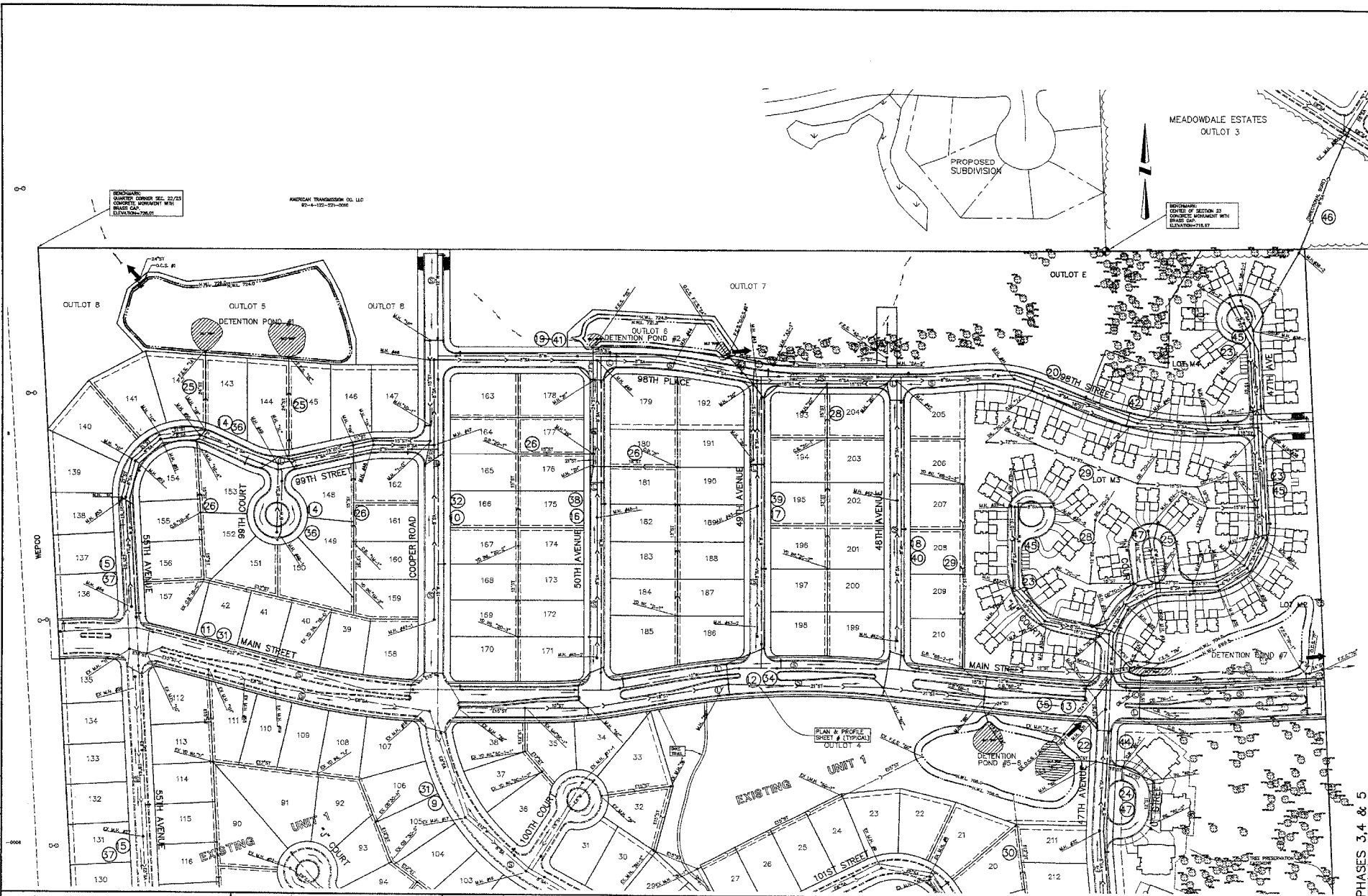
QUARTER CORNER OF SECTIONS 22/23, CONCRETE MONUMENT WITH BRASS CAP, ELEVATION=726.01

EXISTING UTILITIES:

WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE REPRESENTATIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

<p>SCALE: 1" = 40' FEET</p> <p>SOLE PROPERTY OF GREENARD, INC. AND NO REPRODUCTION OR USE IN WHOLE OR PART WITHOUT WRITTEN PERMISSION OF GREENARD, INC.</p>	<p>DATE: 3-22-06</p> <p>BY: R.J.G.</p> <p>FOR: PER VILLAGE COMMENTS</p>	<p>DATE: 3-22-06</p> <p>BY: R.J.G.</p> <p>FOR: PER VILLAGE COMMENTS</p>	<p>DATE: 3-22-06</p> <p>BY: R.J.G.</p> <p>FOR: PER VILLAGE COMMENTS</p>	<p>ISSUED BY: R.J.G.</p> <p>DATE: 3-22-06</p> <p>FOR: PER VILLAGE COMMENTS</p>	<p>GREENARD, INC. Engineers • Surveyors • Planners 111 Borony Blvd, Suite 310, Lincolnshire, Illinois 60069-3823 PHONE: 847-454-3800 FAX: 847-454-3801 E-MAIL: INFO@GREENARDINC.COM IL REGISTRATION NO. 001-000001</p>	<p>SCALE: NONE</p> <p>CONTRACT NO.: 46012</p> <p>SHEET: 1 OF 51</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p style="text-align: center;">TITLE SHEET</p>
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PHASES 3, 4 & 5



REMARKS:
QUARTER CORNER SEC. 20/23
CONCRETE MONUMENT WITH
BRASS CAP
ELEVATION 718.87

AMERICAN TRANSMISSION CO. LLC
97-4-103-271-0001

MEADOWDALE ESTATES
OUTLOT 3

REMARKS:
CENTER OF SECTION 23
CONCRETE MONUMENT WITH
BRASS CAP
ELEVATION 718.87

SCALE IN FEET
0 40 80 120 160

BY: 2-22-09 PER VILLAGE COMMENTS
BY: 2-4-06 PER VILLAGE COMMENTS
DATE: 6/10/09

DRAWN BY: GTR

DESIGNED BY: DATE: 8-28-06
CHECKED BY: DATE: 8-28-06
APPROVED BY: DATE: 8-28-06
DATE: 8-28-06



GREENGARD, INC.
Engineers • Surveyors • Planners
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PHONE: 847-524-3883 FAX: 847-524-0887

Scale: 1"=100'
Drawing No.: 46012
Sheet: 2 of 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
GENERAL LAYOUT

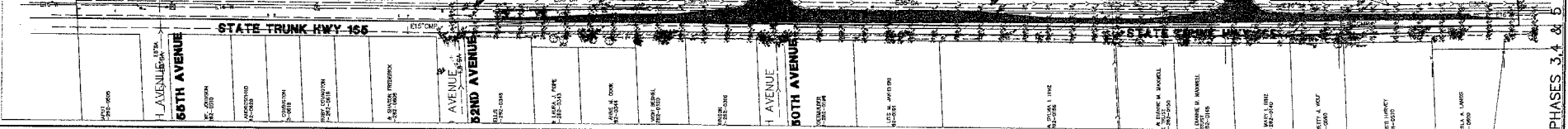
PHASES 3, 4 & 5



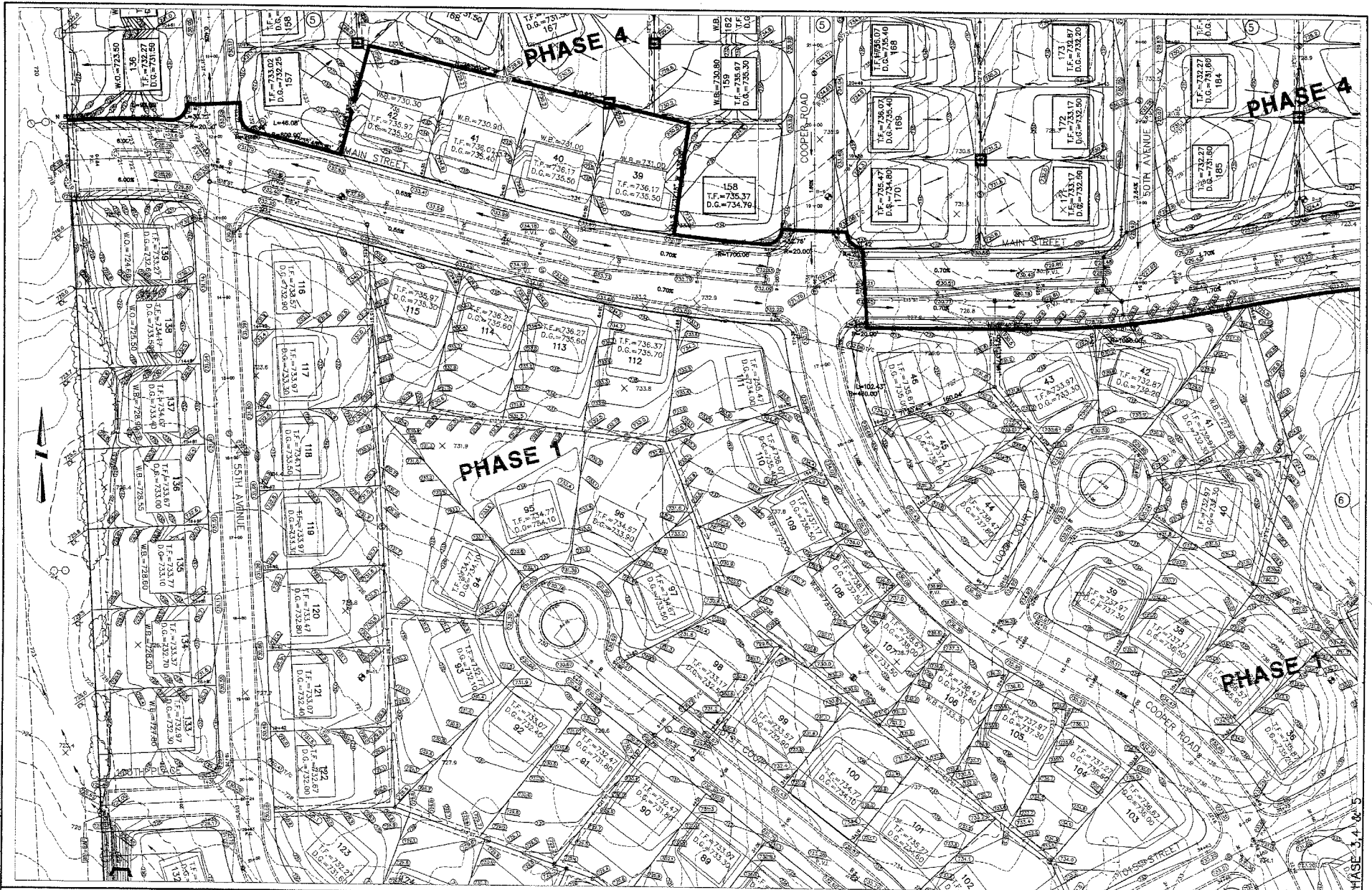
**GREENARD
PROJECT
#50182
SAGEWOOD
CONDOMINIUMS**



PHASES 3, 4 &



<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>		<p>DESIGNED BY: [Logo] DATE: 8-22-05</p> <p>DRAWN BY: [Logo] DATE: 8-22-05</p> <p>APPROVED BY: [Signature] DATE: 8-22-05</p>		<p>GREENARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-9882 FAX: 847-634-0887</p>		<p>SHEET: 48012</p> <p>DATE: 3/51</p>		<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>GENERAL LAYOUT</p>	
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SCALE 1/4" = 1' FEET

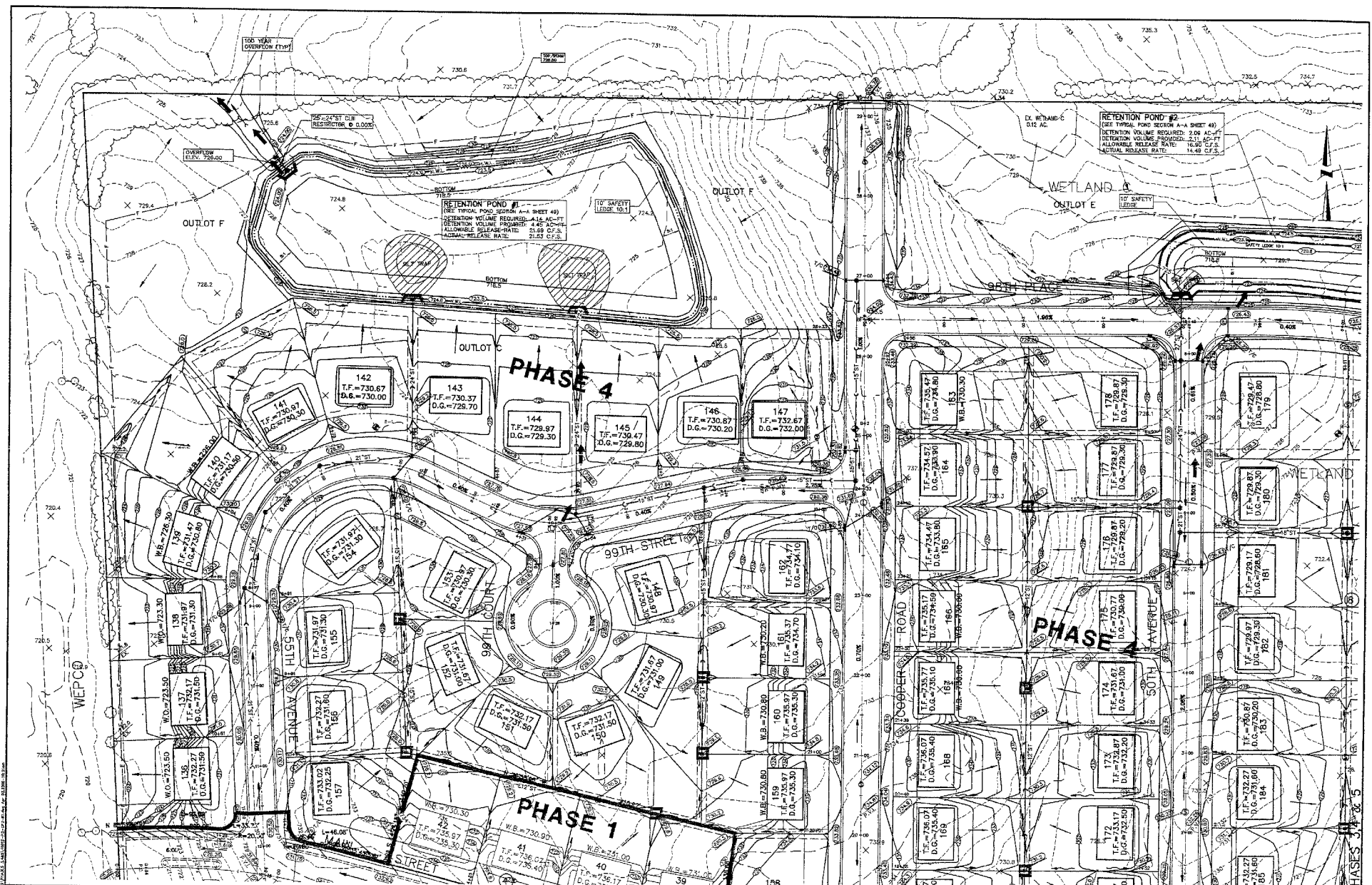
ALL RIGHTS RESERVED. THIS PLAN IS THE PROPERTY OF GREENGLARD, INC. IN WHOLE OR PART WITHOUT THE PERMISSION OF GREENGLARD, INC.

DATE	REVISION	BY	CHECKED
8-26-05			
8-26-05			
8-26-05			
8-26-05			

GREENGLARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Joliet, Illinois 60438-3623
 PHONE: 815-434-3883 FAX: 815-434-3887
 WWW.GREENGLARD.COM

SCALE	1" = 50'
DATE	4/8/12
SHEET	4 OF 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 GRADING & EROSION CONTROL PLAN



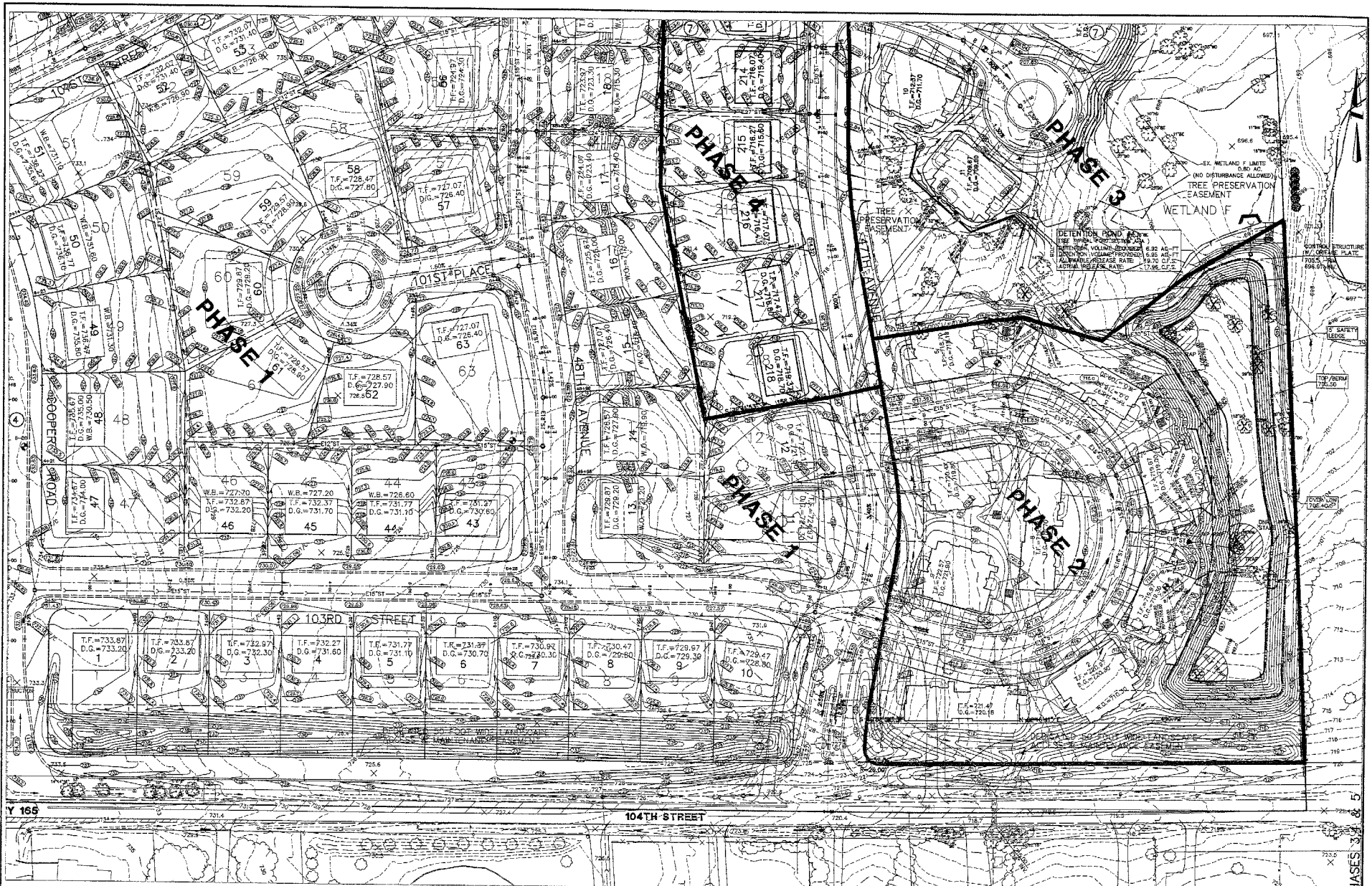
RETENTION POND #2
 (SEE TYPICAL POND SECTION A-A SHEET 49)
 DETENTION VOLUME REQUIRED: 2.08 AC-FT
 DETENTION VOLUME PROVIDED: 2.11 AC-FT
 ALLOWABLE RELEASE RATE: 16.99 C.F.S.
 ACTUAL RELEASE RATE: 14.48 C.F.S.

RETENTION POND #1
 (SEE TYPICAL POND SECTION A-A SHEET 49)
 DETENTION VOLUME REQUIRED: 4.16 AC-FT
 DETENTION VOLUME PROVIDED: 4.45 AC-FT
 ALLOWABLE RELEASE RATE: 21.00 C.F.S.
 ACTUAL RELEASE RATE: 19.05 C.F.S.

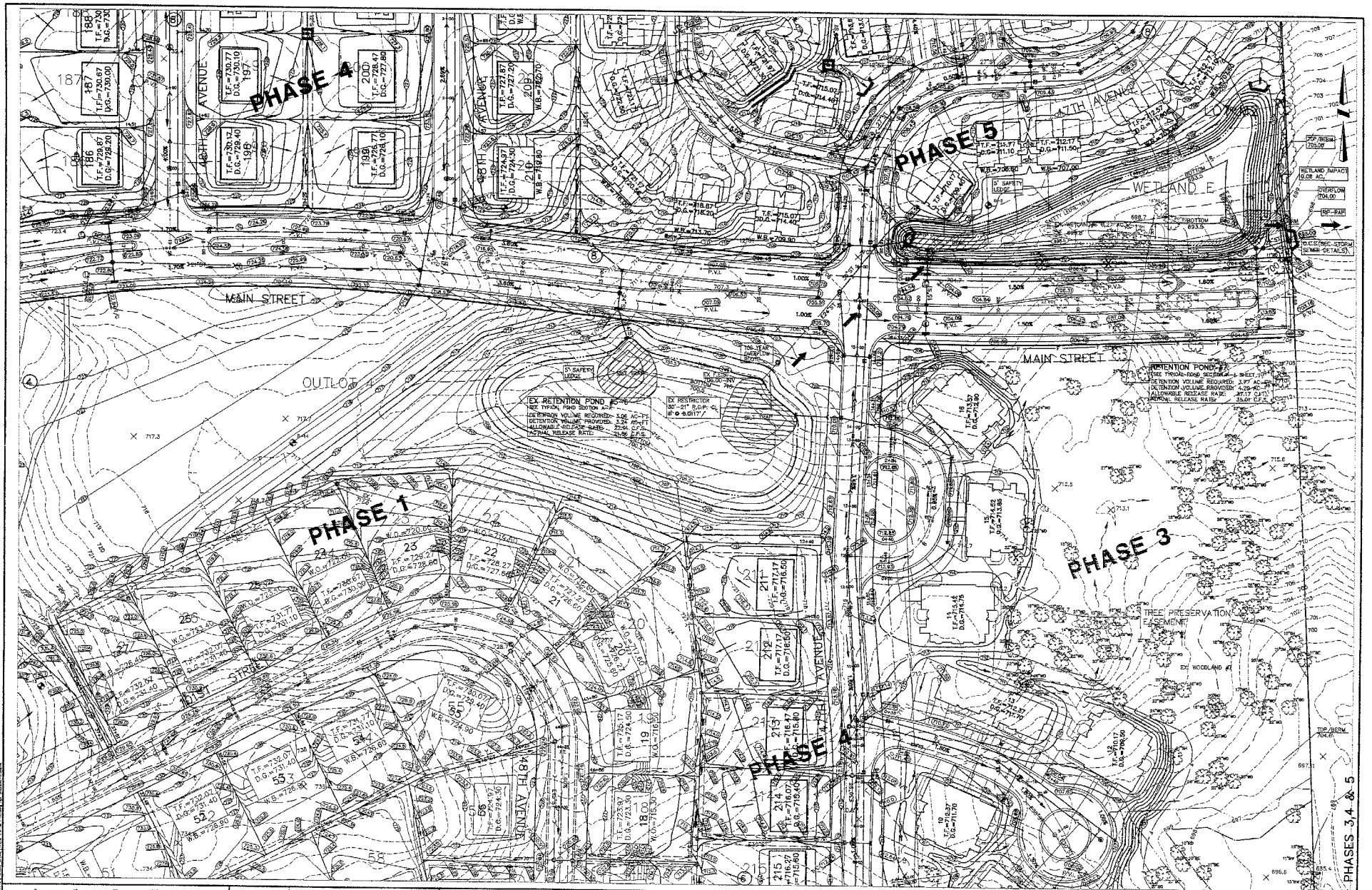
PHASE 4

PHASE 1

<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>	<p>REV. 3-23-06 PER VILLAGE COMMENTS</p> <p>REV. 3-6-08 PER VILLAGE COMMENTS</p> <p>DATE</p>	<p>DESIGNED BY: GRT</p> <p>CHECKED BY: GRT</p> <p>DATE: 8-22-05</p>	<p>DATE: 8-22-05</p> <p>DATE: 8-22-05</p>	<p>GREENGLARD, INC.</p> <p>Engineers, Surveyors, Planners</p> <p>111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60068-3623</p> <p>TEL: 847-634-3840 FAX: 847-634-1067</p>	<p>SCALE: 1"=50'</p> <p>DRAWING NO: 46012</p> <p>SHEET: 5 OF 52</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>GRADING & EROSION CONTROL PLAN</p>
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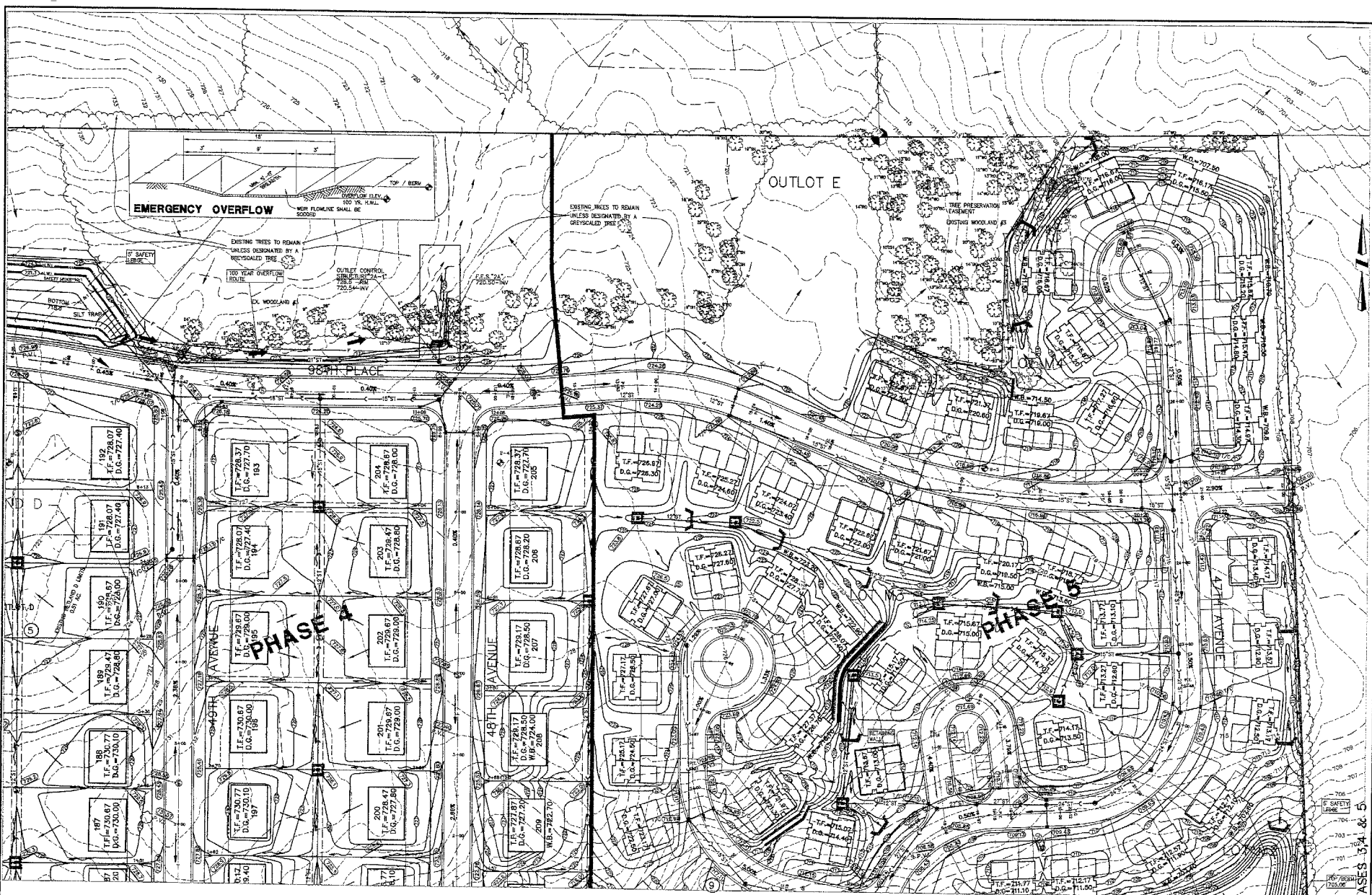
SCALE IN FEET 0 40 80 120 160		DRAWN BY: [blank] DATE: [blank]	CHECKED BY: [blank] DATE: [blank]	APPROVED BY: [blank] DATE: [blank]	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-646-0883 E-MAIL: SURVEY@GREENGARD.COM REGISTRATION NO. 184-000883	SCALE: 1"=50' DRAWING NO. 48012 SHEET 6 OF 52	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI GRADING & EROSION CONTROL PLAN
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PHASES 3, 4 & 5

SCALE IN FEET 0 50 100 150		1"=50' 45012 7 of 52		GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60068-3623 PHONE: 847-454-3883 FAX: 847-454-0887 E-MAIL: ENR@GREENGARD.COM IL REGISTRATION NO. 04-002816		VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI GRADING & EROSION CONTROL PLAN	
DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	DATE: 8-22-05 DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]

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 PER VILLAGE COMMENTS



EMERGENCY OVERTFLOW
 TOP / BERM
 100 YEAR OVERTFLOW
 EXISTING TREES TO REMAIN UNLESS DESIGNATED BY A REGISTERED TREE
 100 YEAR OVERTFLOW
 EX. WOODLAND #1
 100 YEAR OVERTFLOW
 BOTTOM
 SILT TRAP

OUTLOT E

PHASE 4

PHASE 5

PHASES 5, 4 & 6

SCALE IN FEET
 0 40 80 120 160

REV: 2-25-04 PER VILLAGE COMMENTS
 RT: 2-4-08 PER VILLAGE COMMENTS
 DATE: REFERENCE

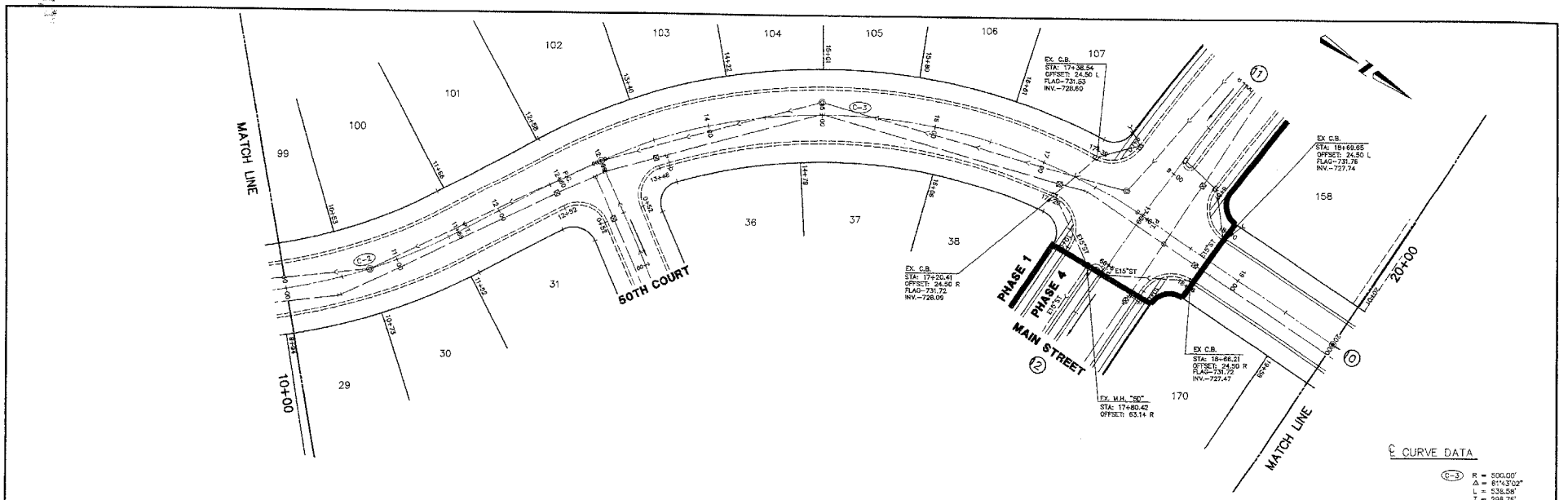
DESIGNED BY: DATE: 8-28-08
 CHECKED BY: DATE: 8-28-08
 APPROVED BY: DATE: 8-28-08
 DWG: 46012



GREENCARD, INC.
 Engineers • Surveyors • Planners
 111 Borsley Blvd., Suite 310, Lincolnshire, Illinois 60068-3623
 PHONE: 847-434-3363 FAX: 847-434-0687
 E-MAIL: INFO@GREENCARD.COM
 ILL. REGISTRATION NO. 184-000935

SCALE: 1"=50'
 SHEET NO.: 46012
 OF 8

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
GRADING & EROSION CONTROL PLAN

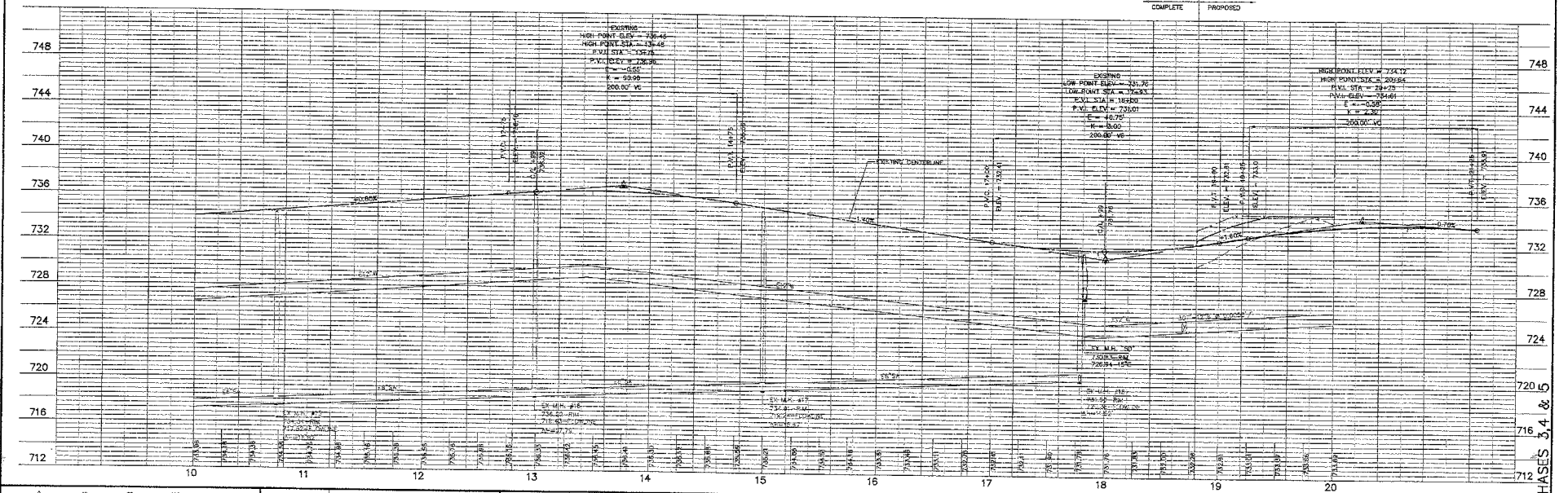


Curve Data

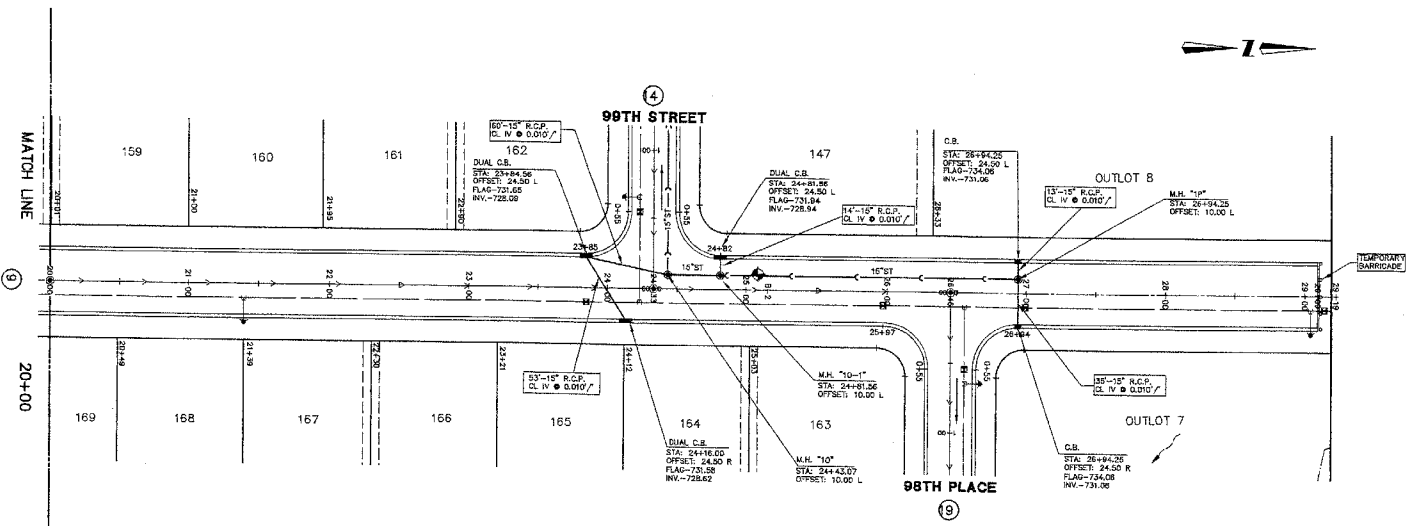
R =	500.00'
Δ =	81°43'00"
L =	538.59'
T =	298.75'
P.C. =	12+50
P.T. =	17+99

COOPER ROAD

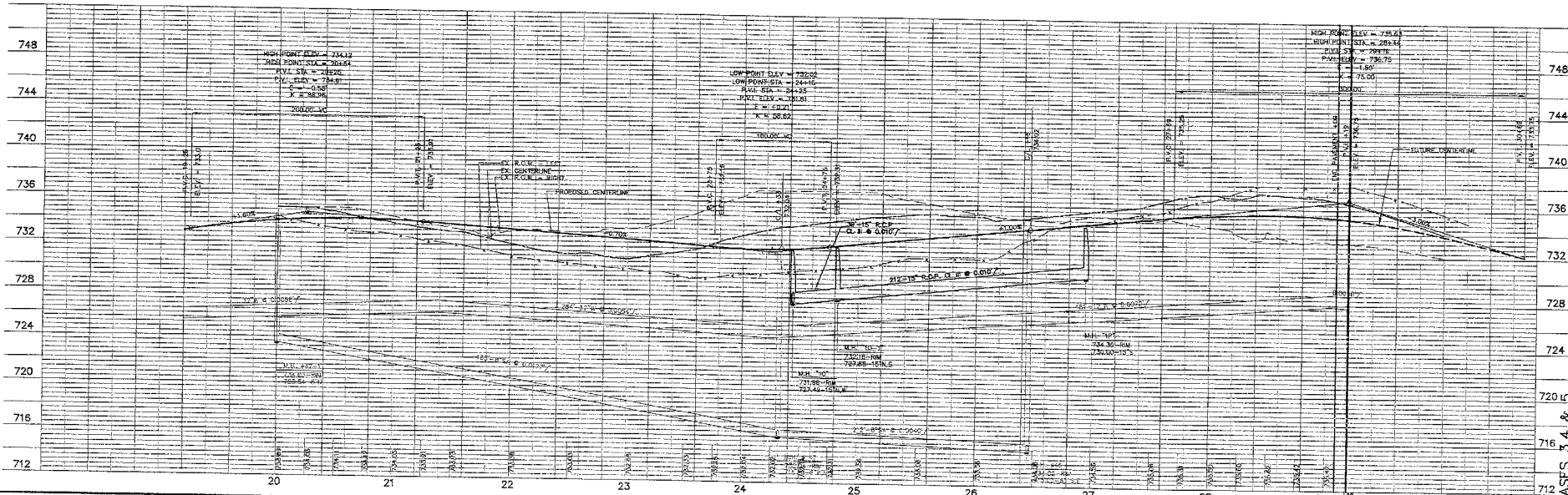
PHASE 1-2 COMPLETE PHASE 2-3 PROPOSED



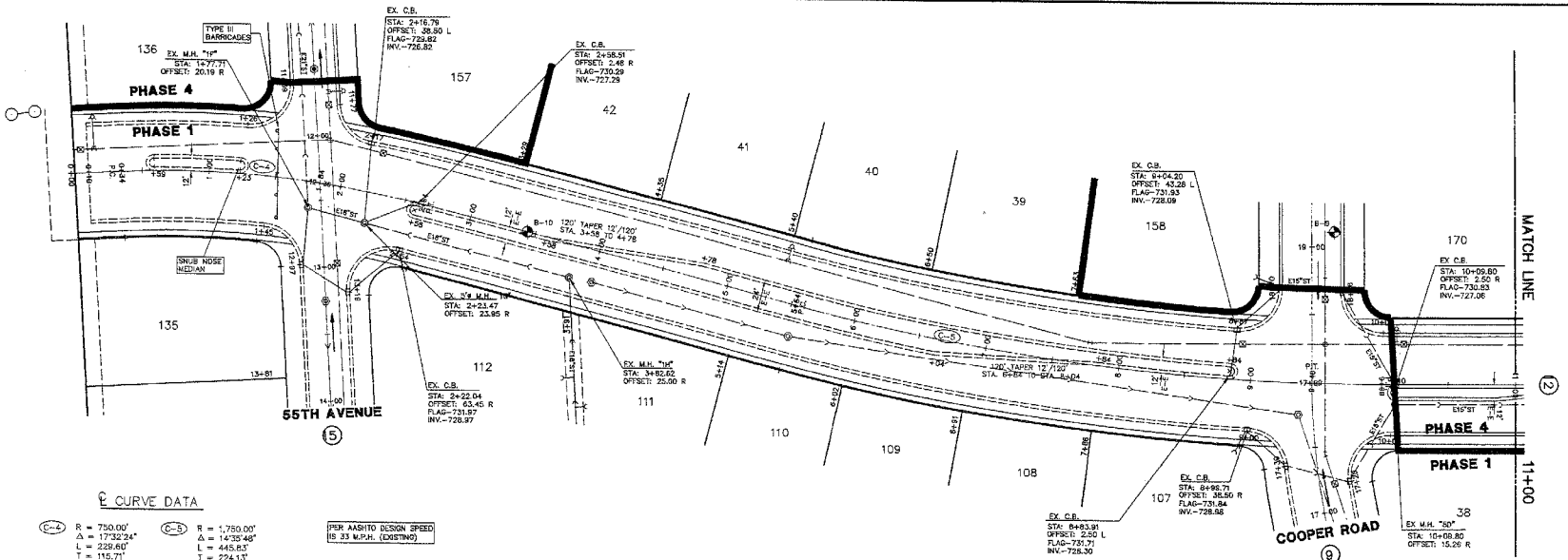
<p>SCALE IN FEET</p>		<p>ISSUED BY: JMD DATE: 8-26-05</p>		<p>DESIGNED BY: JMD DATE: 8-26-05</p>		<p>CHECKED BY: JMD DATE: 8-26-05</p>		<p>APPROVED BY: JMD DATE: 8-26-05</p>		<p>PROJECT NO.: 46012</p>		<p>SHEET NO.: 9 OF 51</p>	
<p>GREENGARD, INC. Engineers • Surveyors • Planners 11 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-3883 FAX: 847-634-6487</p>										<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI COOPER ROAD PLAN & PROFILE STORM SEWER</p>			



COOPER ROAD



SCALE IN FEET 0 40 80 120 160		DRAWN BY: MJC DATE: 8-29-03	CHECKED BY: JMW DATE: 8-29-03	APPROVED BY: JMW DATE: 8-29-03	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60068-3623 PHONE 847-434-3843 FAX 847-434-3847 WWW.GREENGARDINC.COM	SHEET NO: 46012 OF 51	PROJECT: VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI COOPER ROAD PLAN & PROFILE STORM SEWER
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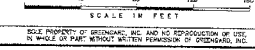
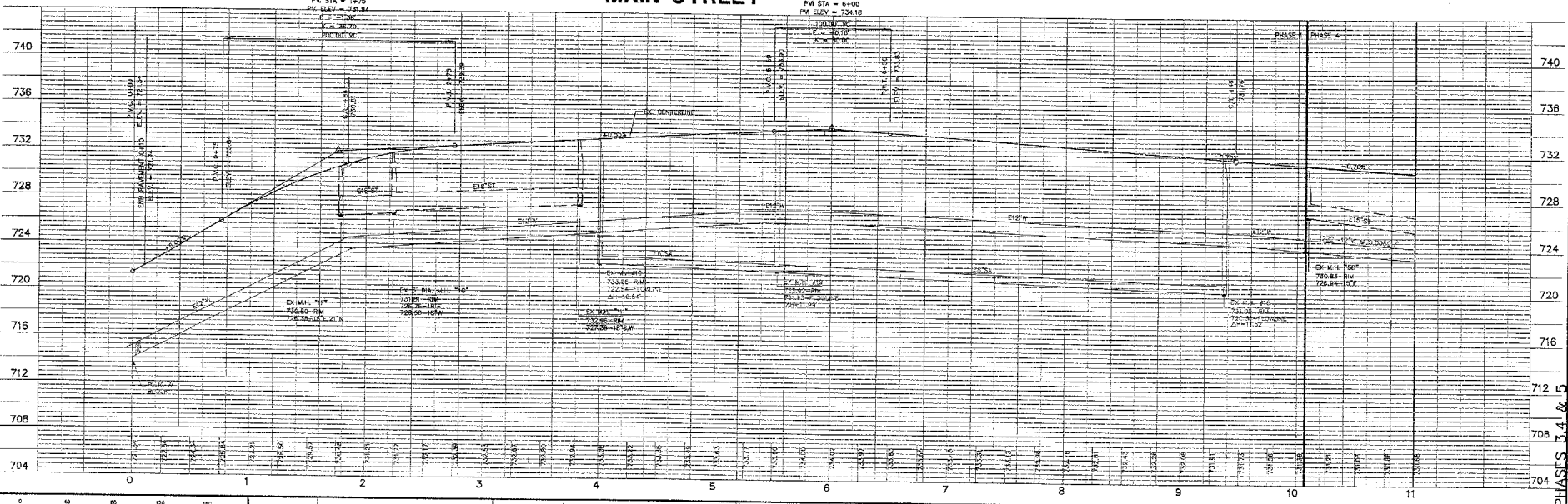
CURVE DATA

C-1	R = 750.00'	C-5	R = 1,750.00'
Δ = 173°32'24"	L = 2209.60'	Δ = 143°39'48"	L = 4453.81'
T = 116.71'	P.C. = 0+34	T = 224.13'	P.C. = 5+54
P.T. = 2+84		P.T. = 9+48	

PER AASHTO DESIGN SPEED
IS 33 M.P.H. (EXISTING)

MAIN STREET

HIGH POINT ELEV = 734.63
HIGH POINT STA = 3+54.26
PW STA = 6+00
PW ELEV = 734.16



REV	DATE	DESCRIPTION
1	3-22-04	PER VILLAGE COMMENTS
2	7-4-05	PER VILLAGE COMMENTS

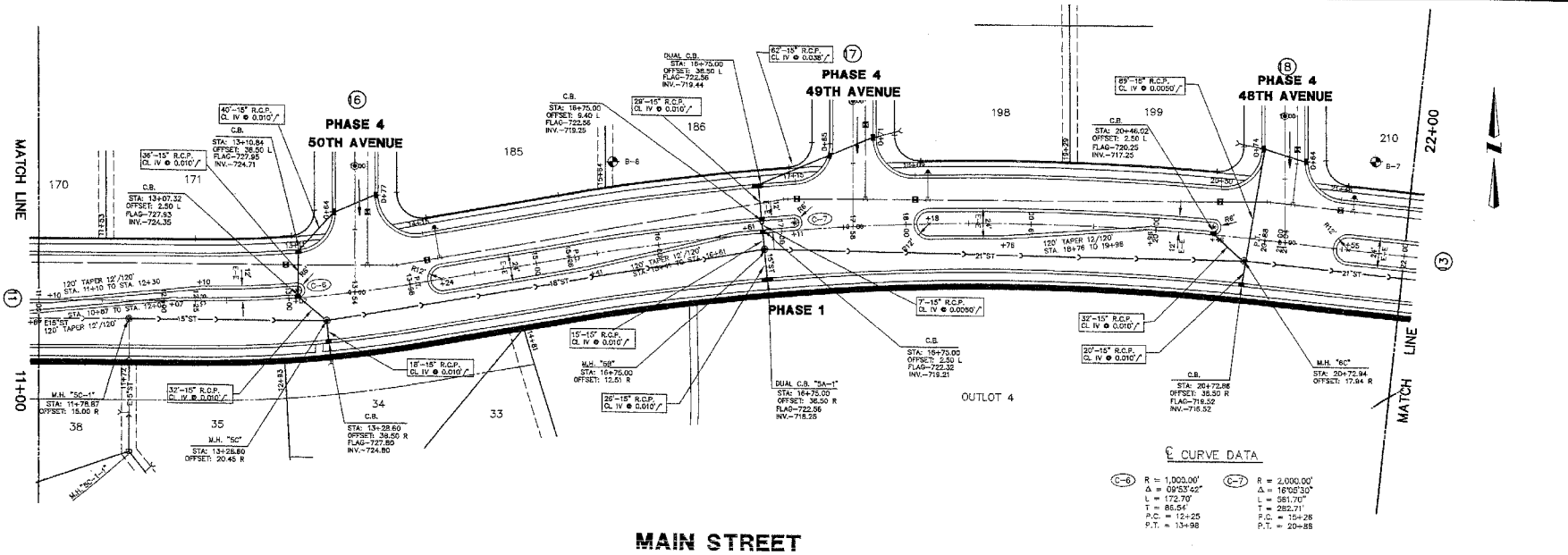
DESIGNED BY	DATE	CHECKED BY	DATE
DW/ART	3-22-04		
DWG	8-28-05		
APPROVED BY	DATE	APPROVED BY	DATE
DW	8-22-05		



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PHONE: 847-636-3883 FAX: 847-636-0827
E-MAIL: STORMSEWER@GCI.COM IL REGISTRATION NO. 154-000995

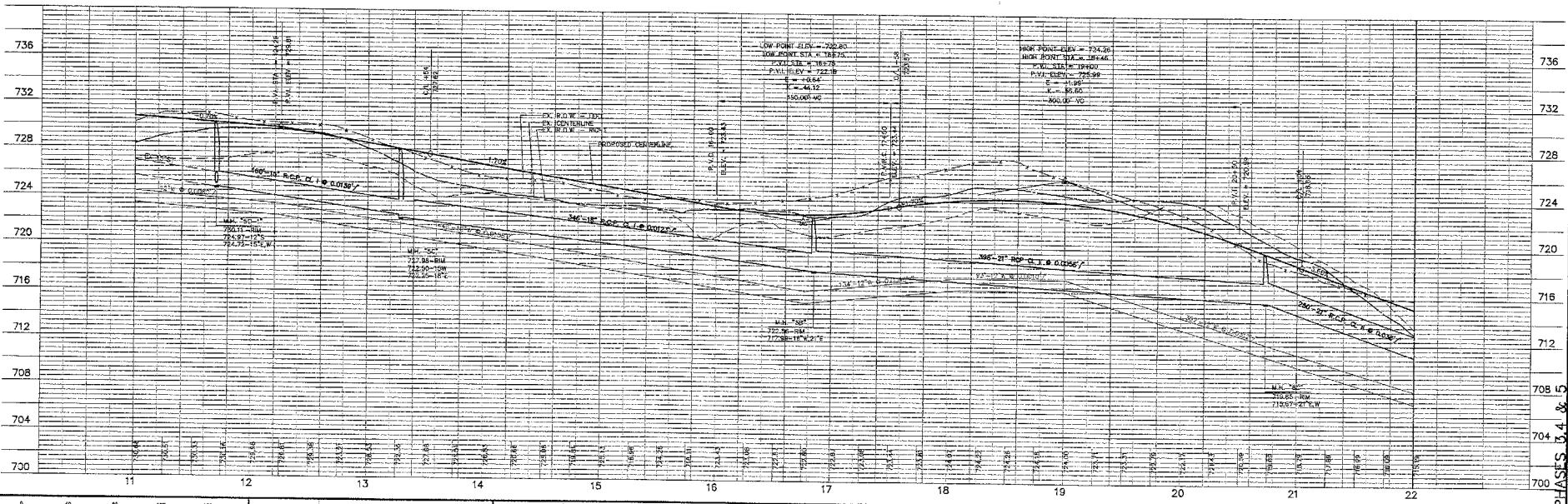
SCALE	HORIZ	VERT
	1"=40'	1"=4'
DRAWING NO.	46012	
SHEET	11	OF 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
MAIN STREET PLAN & PROFILE
STORM SEWER

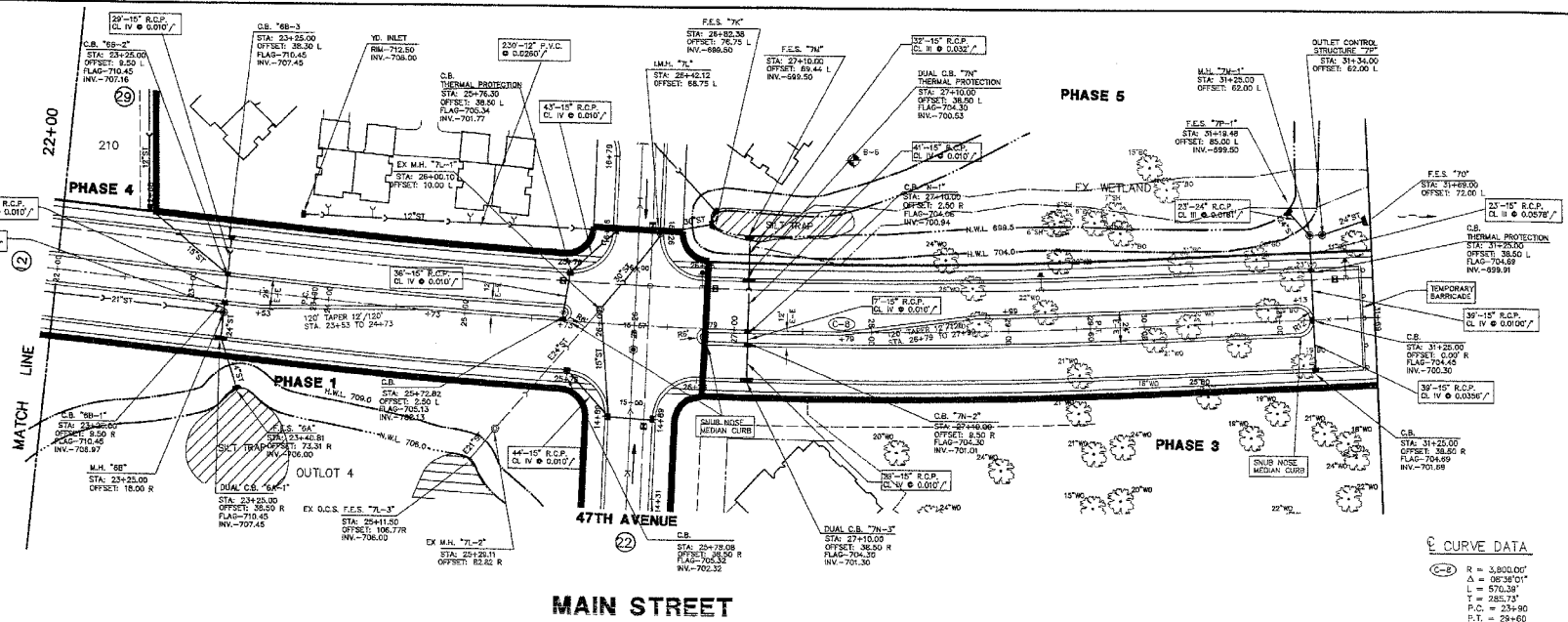


CURVE DATA

(C-6)	R = 1,000.00'	(C-7)	R = 2,000.00'
	Δ = 09°53'42"		Δ = 18°05'30"
	L = 172.70'		L = 361.70'
	T = 85.84'		T = 282.71'
	P.C. = 12+25		P.C. = 15+26
	P.T. = 13+98		P.T. = 20+88

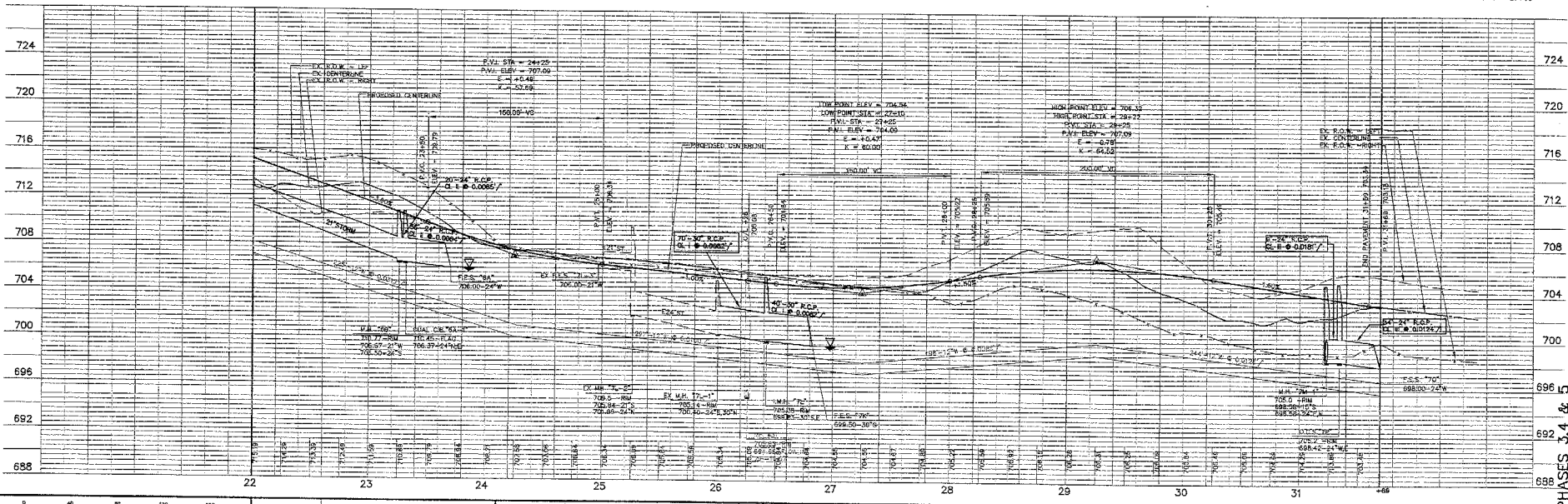


<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>	<p>DATE: 8-22-05</p> <p>BY: [Signature]</p> <p>CHK: [Signature]</p>	<p>GREENGARD, INC. Engineers • Surveyors • Planners</p> <p>111 Bursley Blvd., Suite 310, Lincolnshire, Illinois 60068-3623 PHONE: 847-634-0883 FAX: 847-634-0837</p>	<p>PROJECT: 4807.2</p> <p>DATE: 12-05-05</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>MAIN STREET PLAN & PROFILE</p> <p>STORM SEWER</p>
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CURVE DATA

$R = 3,800.00'$
 $\Delta = 08^{\circ}40'01''$
 $L = 570.39'$
 $T = 265.13'$
 $P.C. = 23+50$
 $P.T. = 29+60$



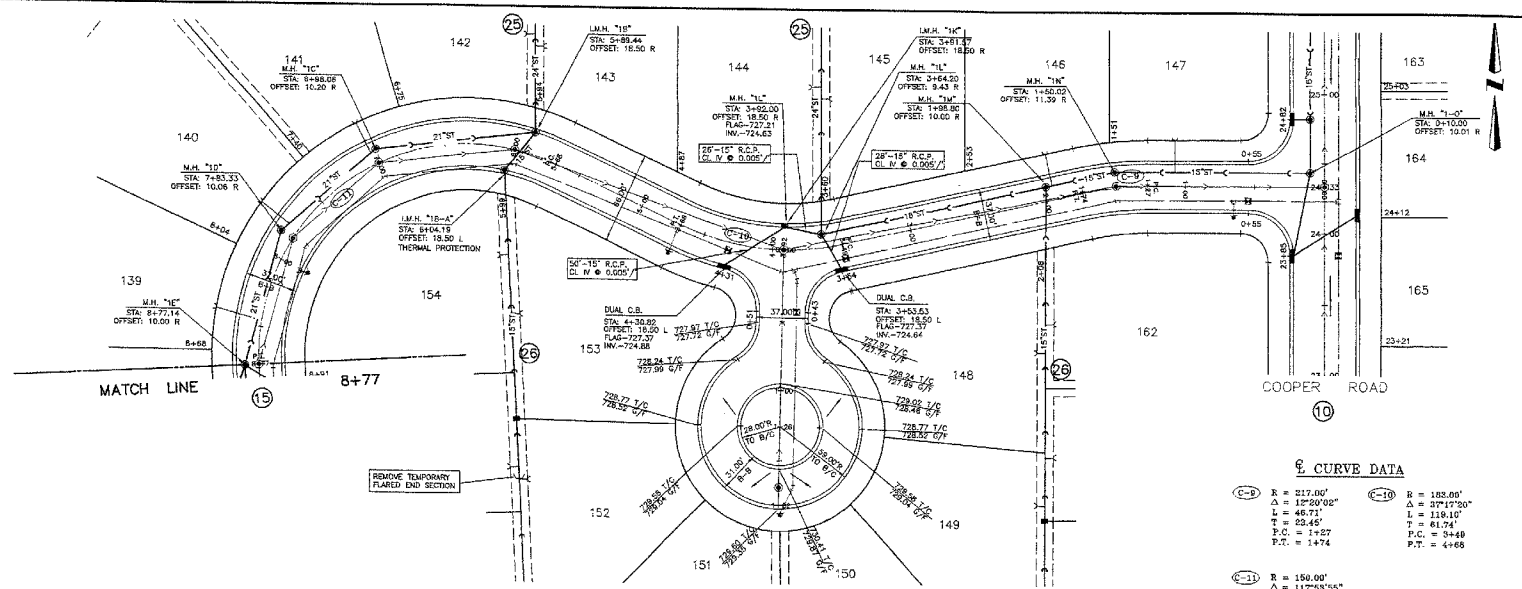
SCALE IN FEET
 0 40 80 160

REVISIONS
 NO. DATE BY
 1 2-4-06 PER VILLAGE COMMENTS
 2 8-28-06
 3 8-21-06

GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 316, Lincolnshire, Illinois 60069-3623
 PHONE 847-634-3000 FAX 847-634-0887
 E-MAIL: INFO@GREENGARD.COM
 ILL. REGISTRATION NO. 184-000665

TOTAL NO. 1-40
 SHEET NO. 48012
 PROJECT NO. 13 21
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
MAIN STREET PLAN & PROFILE
STORM SEWER

PHASES 3, 4 & 5

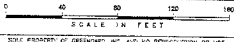
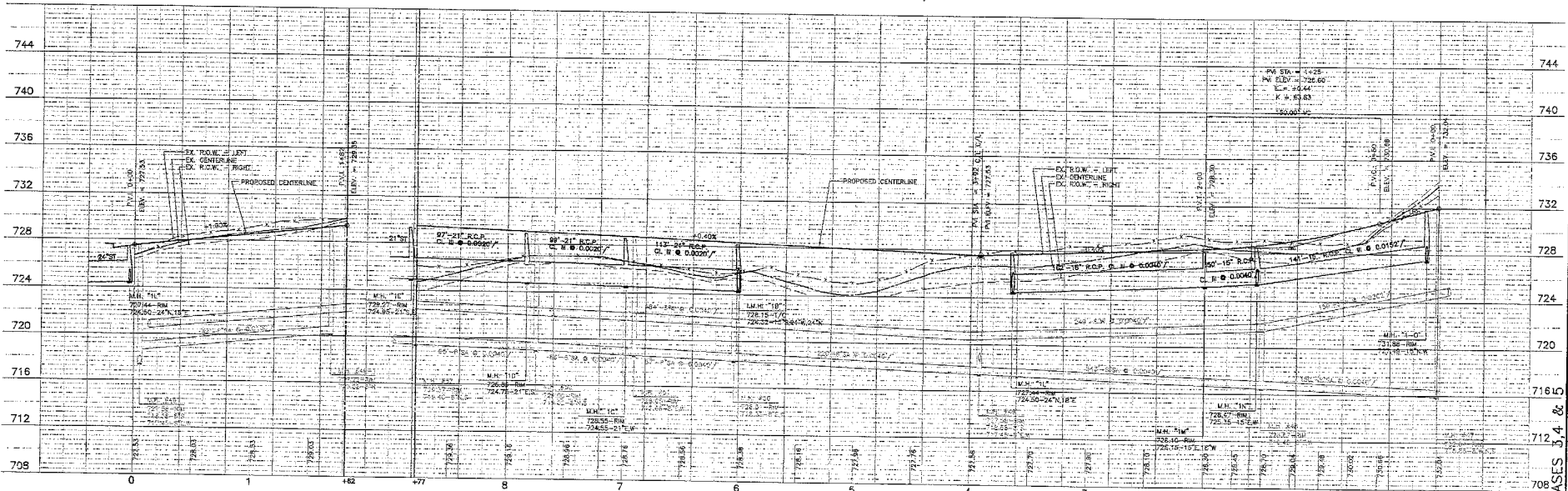


Curve Data

C-9	R = 217.00'	C-10	R = 102.00'
	Δ = 125°00'00"		Δ = 371°50'00"
	L = 46.71'		L = 118.10'
	T = 23.45'		T = 61.74'
	P.C. = 1+27		P.C. = 3+48
	P.T. = 1+74		P.T. = 4+68
C-11	R = 150.00'		
	Δ = 117°58'55"		
	L = 508.66'		
	T = 249.14'		
	P.C. = 5+68		
	P.T. = 6+77		

99TH COURT

99TH STREET



BY: [Signature] DATE: 3-22-07
 CHECKED BY: [Signature] DATE: 2-8-08
 DRAWN BY: [Signature] DATE: 2-8-08

PER VILLAGE COMMENTS
 PER VILLAGE COMMENTS

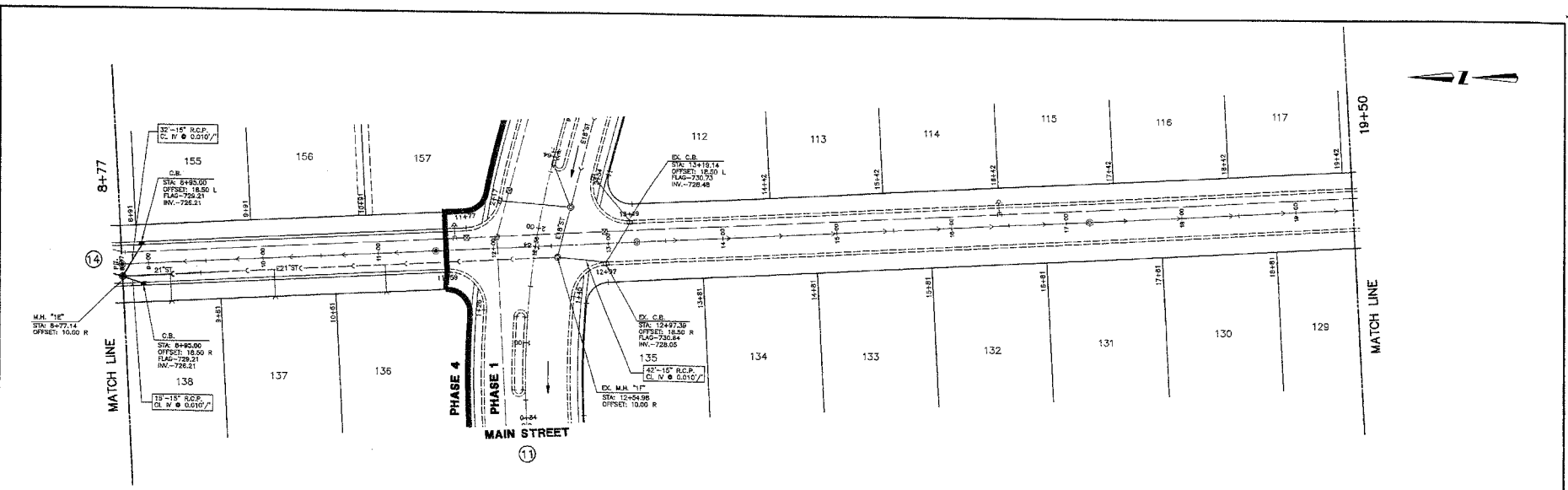
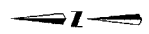
DESIGNED BY: [Signature] DATE: 6-23-05
 CHECKED BY: [Signature] DATE: 6-24-05
 DRAWN BY: [Signature] DATE: 6-24-05



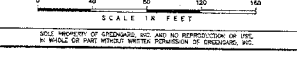
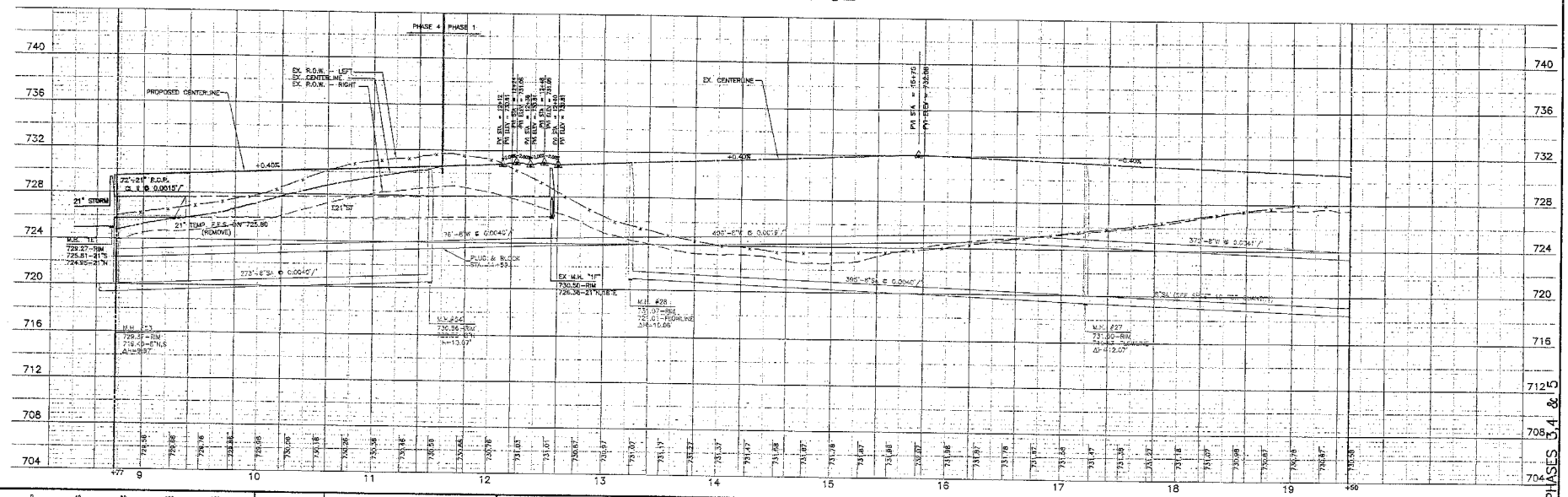
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Uncasville, Illinois 60089-3623
 PHONE: 847-634-8800 FAX: 847-634-0887

SCALE: HORIZ: 1"=40'
 VERT: 1"=4'
 DRAWING NO: 46012
 SHEET: 4 OF 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 99TH ST./99TH CT. PLAN & PROFILE
 STORM SEWER



55TH AVENUE

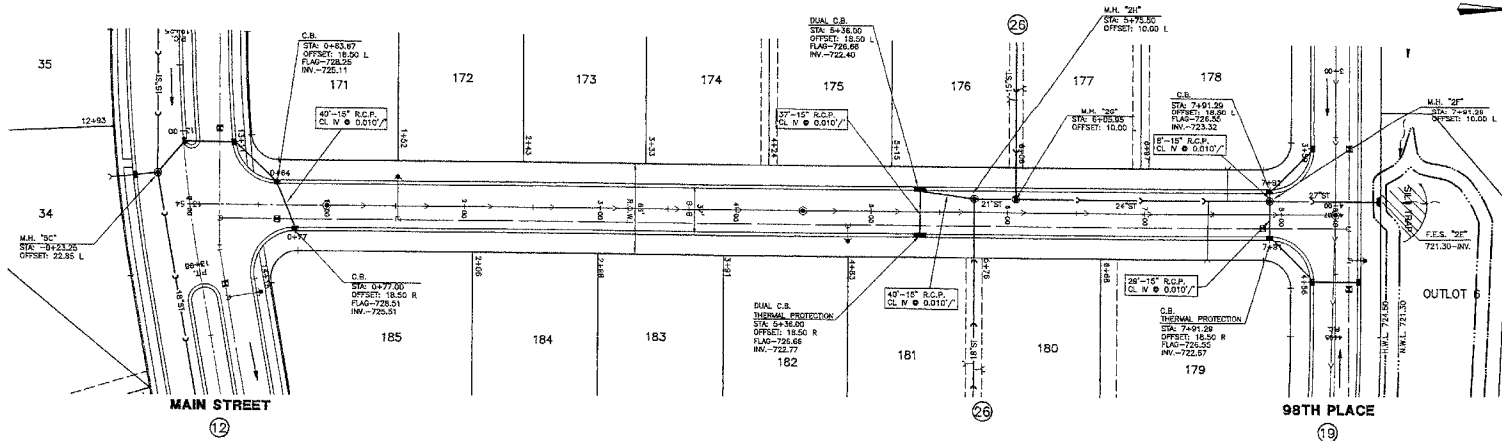


NO.	DATE	REVISION	BY	CHKD.
1	8-23-06	ISSUED FOR PERMITS
2	8-23-06	REVISED
3	8-23-06	REVISED

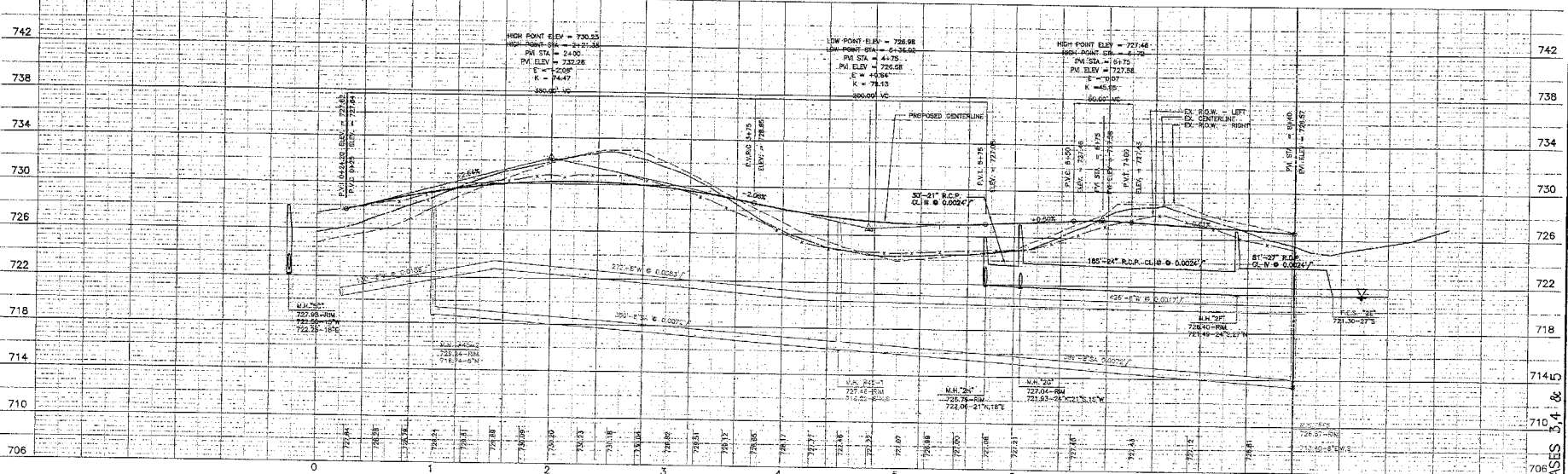
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
 PHONE: 847-434-3865 FAX: 847-434-5687
 REG. NO. 06-000985

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 55TH AVENUE PLAN & PROFILE
 STORM SEWER
 SHEET NO. 46012
 DATE: 8-23-06
 SCALE: 1" = 40'

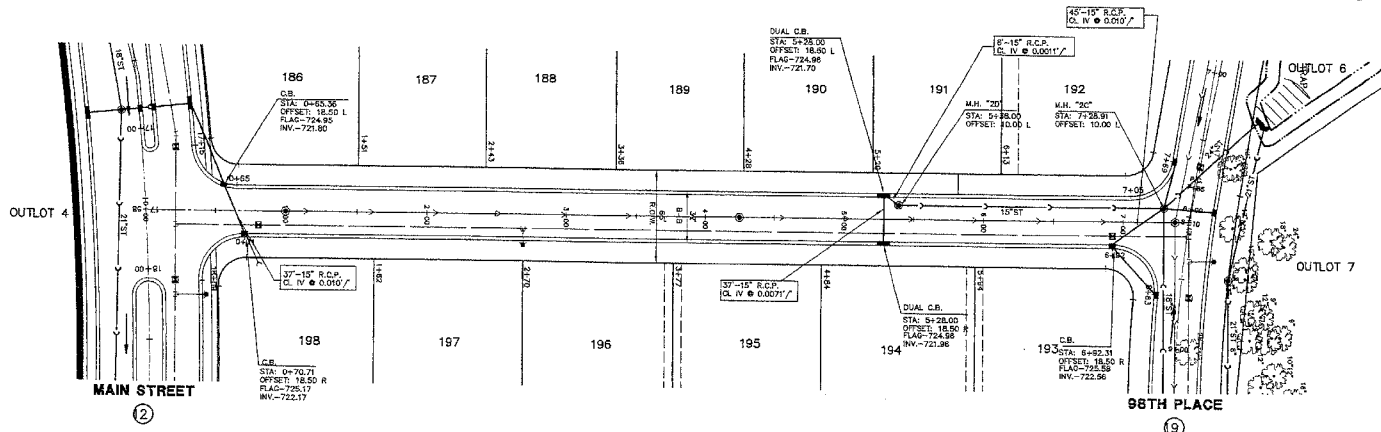
ALL RIGHTS RESERVED. ANY REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PROHIBITED.



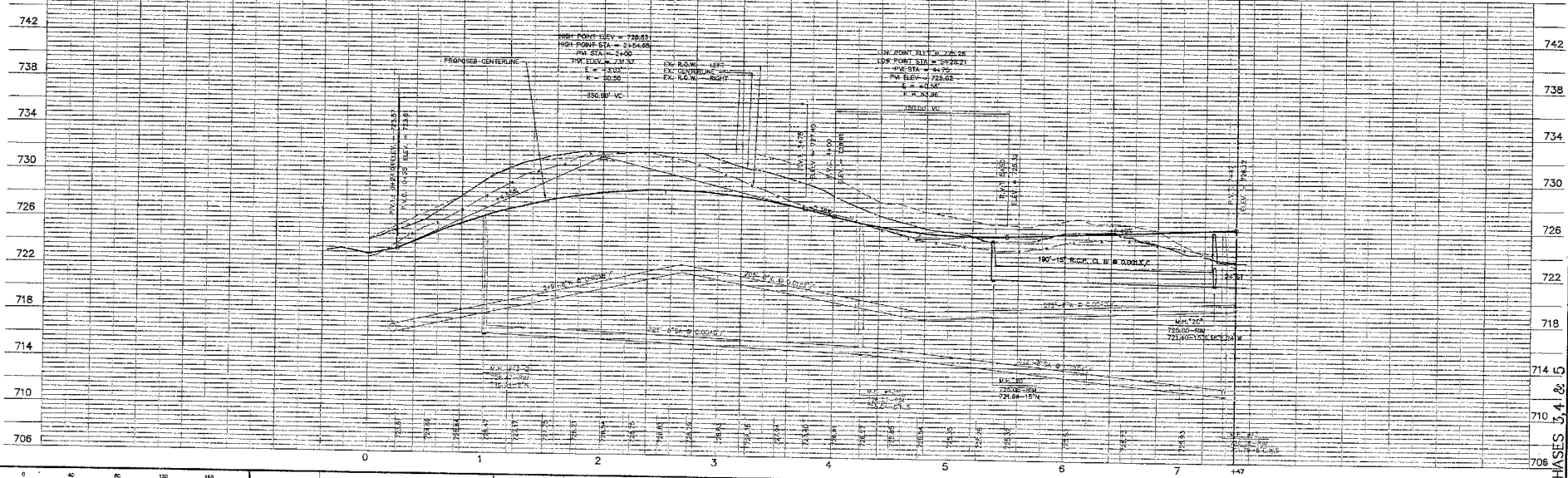
50TH AVENUE



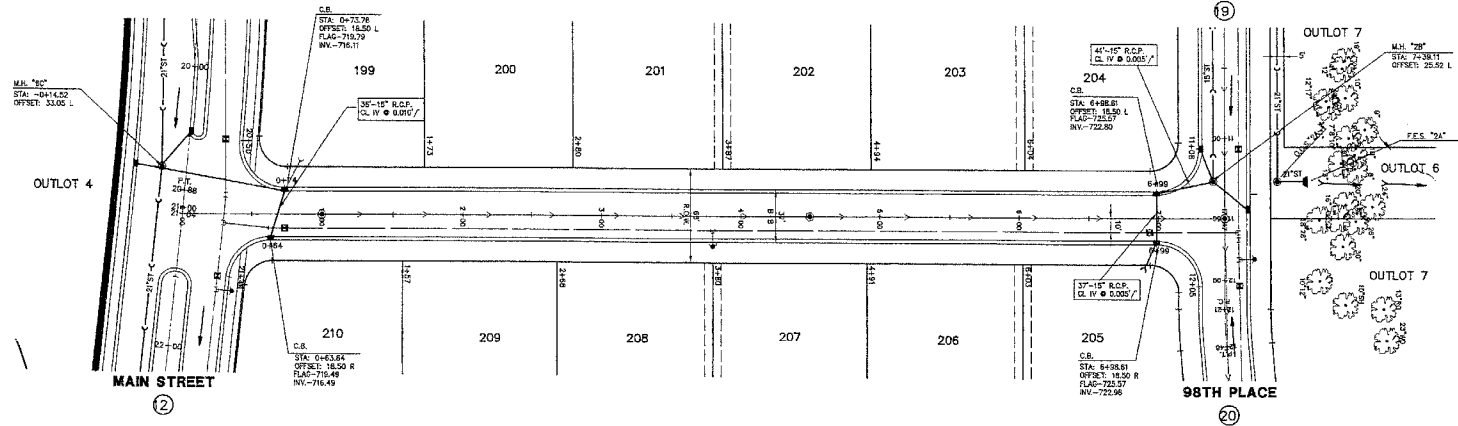
<p>0 40 80 120 160 SCALE IN FEET</p>	<p>DATE: 5-28-05 BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]</p>	<p>PROJECT: VILLAGE COMMENTS DRAWN BY: [Signature] REVISIONS:</p>	<p>GREENGARD, INC. Engineers • Surveyors • Planners 111 Bursley Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 630-534-3833 FAX: 630-534-0667 ILL. REGISTRATION NO. 184-000982</p>	<p>PROJECT: VILLAGE COMMENTS DRAWING NO.: 46012 SHEET: 16 of 51</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 50TH AVENUE PLAN & PROFILE STORM SEWER</p>
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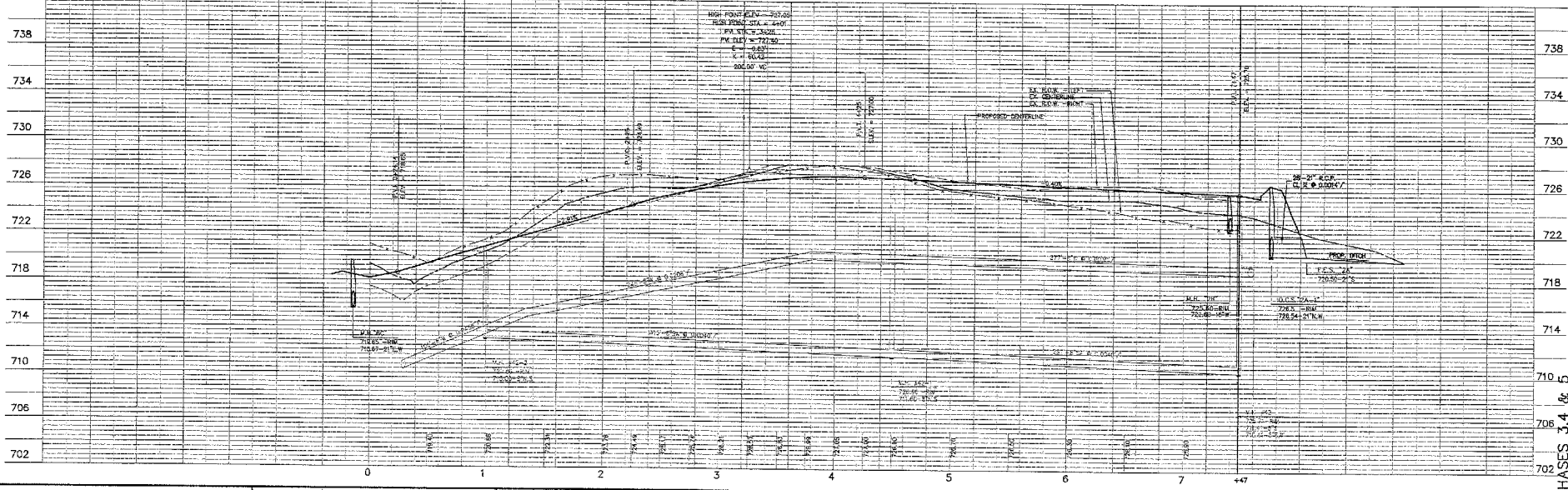
49TH AVENUE



SCALE IN FEET 0 40 80 120 160		REVISION NO. DATE 1 8-26-00 2 8-28-00 3 8-28-00 4 8-28-00	DESIGNED BY DATE DW 8-28-00 CHECKED BY DATE DW 8-28-00	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 848-8800-8802 FAX: 848-8800-8807 E-MAIL: INFO@GREENGARD.COM	SHEET NO. 46012 OF 51 17 OF 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, ILL. 49TH AVENUE PLAN & PROFILE STORM SEWER
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48TH AVENUE



HIGH POINT ELEV. = 727.05
 BEGINNING STA. = 2+40.1
 P.V. STA. = 3+20.0
 P.V. ELEV. = 727.80
 C = 10.00
 L = 100.00' VC

SCALE IN FEET

BY	DATE	FOR
2-1-26	2-1-26	FOR VILLAGE COMMENTS

BY	DATE	FOR
2-1-26	2-1-26	FOR VILLAGE COMMENTS

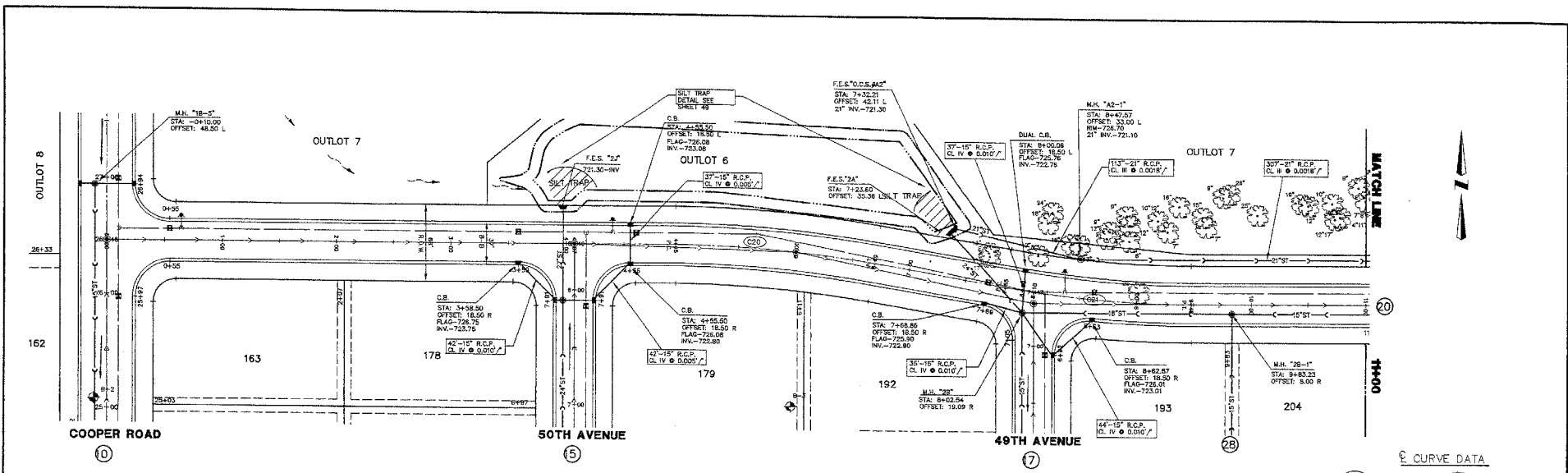
BY	DATE	FOR
2-1-26	2-1-26	FOR VILLAGE COMMENTS

GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3823
 PHONE 847-634-3043 FAX 847-634-0887 EMAIL JDM@GREENGARD.COM ILL. REGISTRATION NO. 034-000945

NO.	DATE
48012	18 51

VILLAGE GREEN HEIGHTS -- PLEASANT PRAIRIE, WI
 48TH AVENUE PLAN & PROFILE
 STORM SEWER

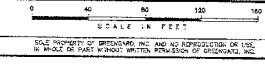
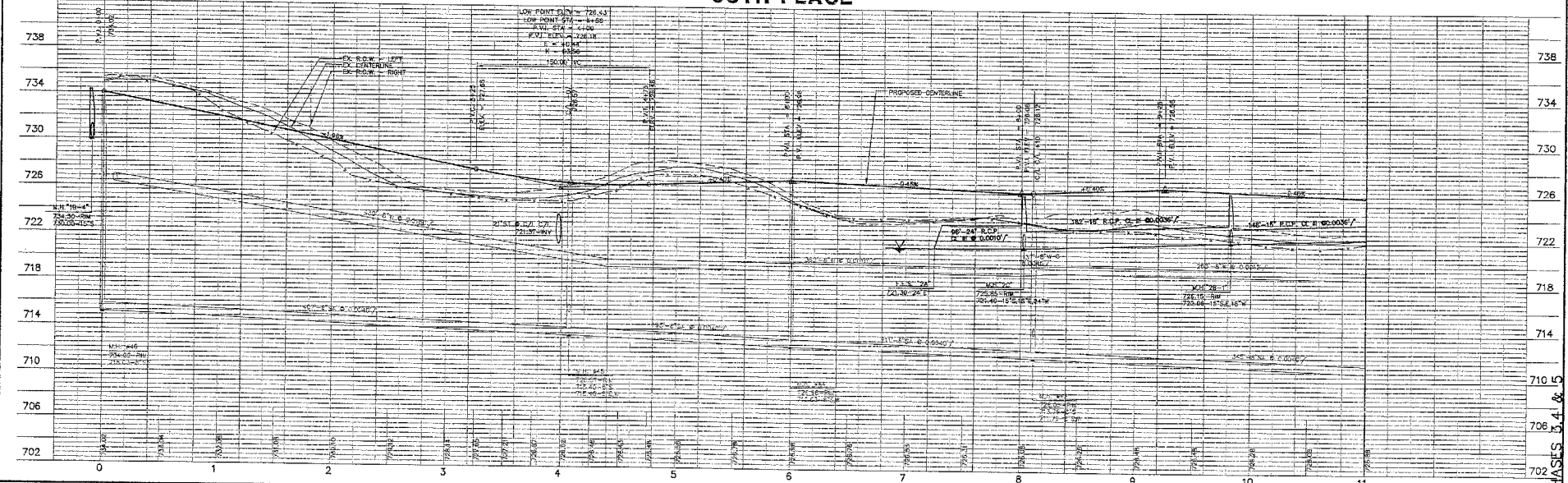
PHASES 3, 4 & 5



Ⓒ CURVE DATA

Ⓒ20	R = 1033.00'	Ⓒ21	R = 967.00'
	Δ = 8°39'13"		Δ = 8°39'13"
	L = 174.05'		L = 162.83'
	T = 87.23'		T = 81.68'
	P.C. = 6+95		P.C. = 7+85
	P.T. = 6+69		P.T. = 9+48

98TH PLACE

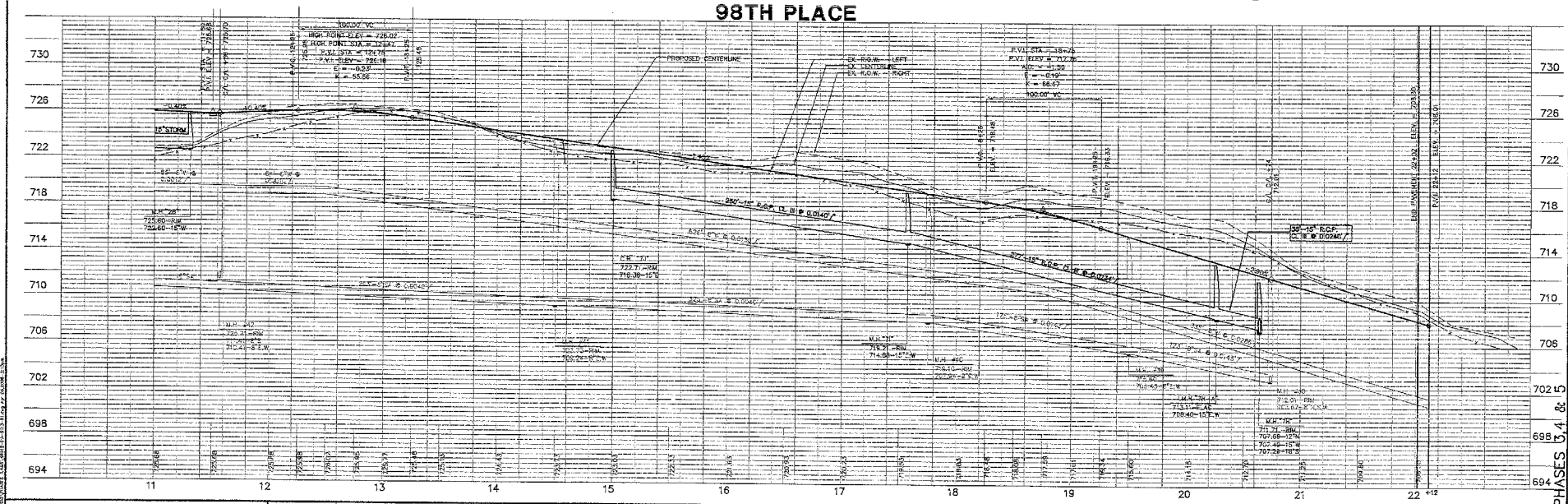
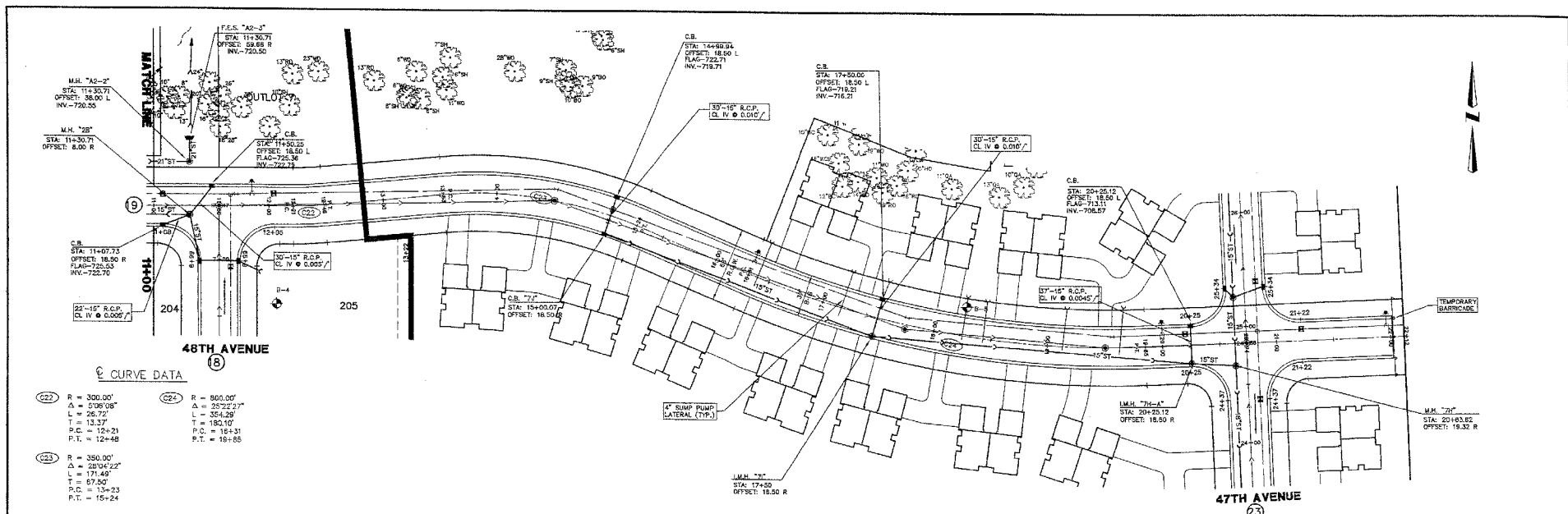


DATE	DATE	REVISED		GREENGARD, INC. Engineers & Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3523 PHONE: 847-634-3883 FAX: 847-634-1987 E-MAIL: 200@GREENGARDINC.COM ILL. REGISTRATION NO. 184-300999
BY	DATE			
2-6-08	6-26-10	8-20-10	8-28-05	
PER VILLAGE COMMENTS				

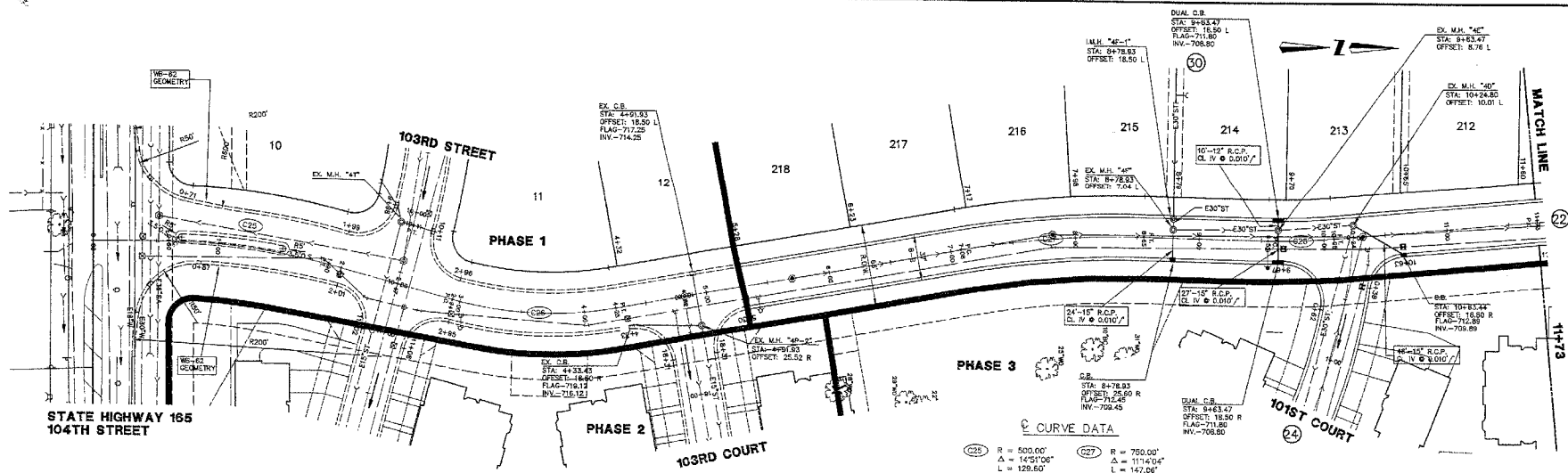
SCALE: HOR. 1" = 40' VERT. 1" = 4'

DATE: 2008
DRAWN BY: 45012
REVISION: 19 OF 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 98TH PLACE PLAN & PROFILE
 STORM SEWER



<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>	<p>REV: 1-24-08</p> <p>DATE: 1-24-08</p>	<p>NON VILLAGE COMMENTS</p>	<p>ISSUED BY: [Signature]</p> <p>DATE: 1-24-08</p>	<p>GREENGARD, INC.</p> <p>Engineers • Surveyors • Planners</p> <p>111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623</p> <p>PHONE: 847-634-2883 FAX: 847-634-2887</p>	<p>PROJECT NO: 46012</p> <p>SHEET: 20 of 51</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>98TH PLACE PLAN & PROFILE</p> <p>STORM SEWER</p>
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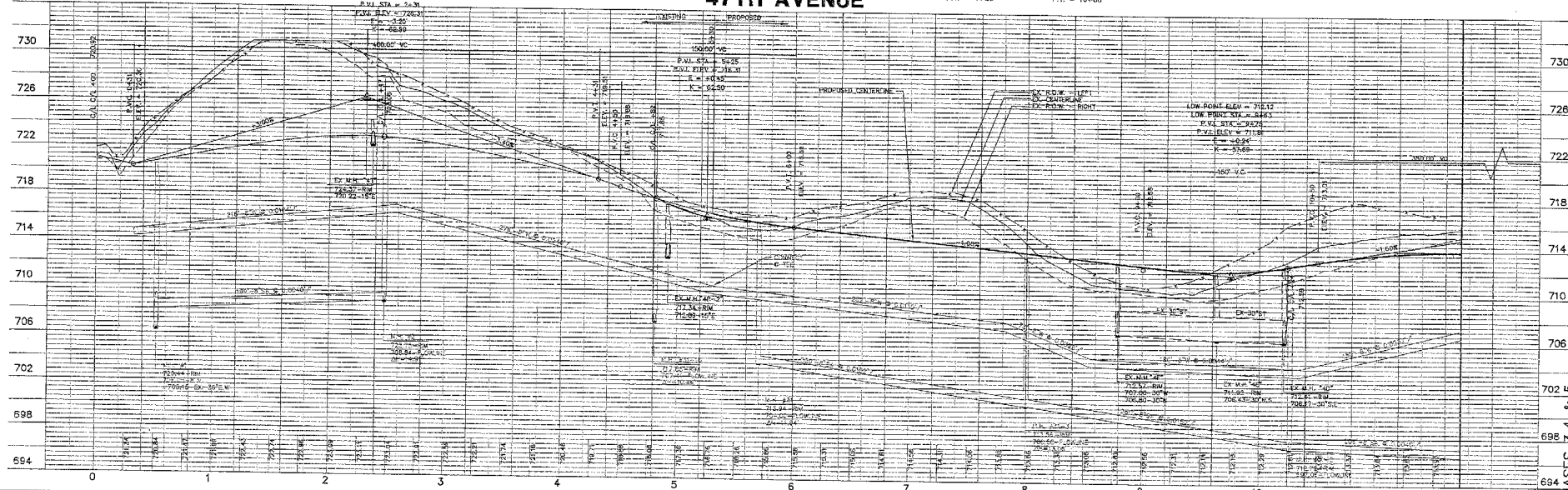


CURVE DATA

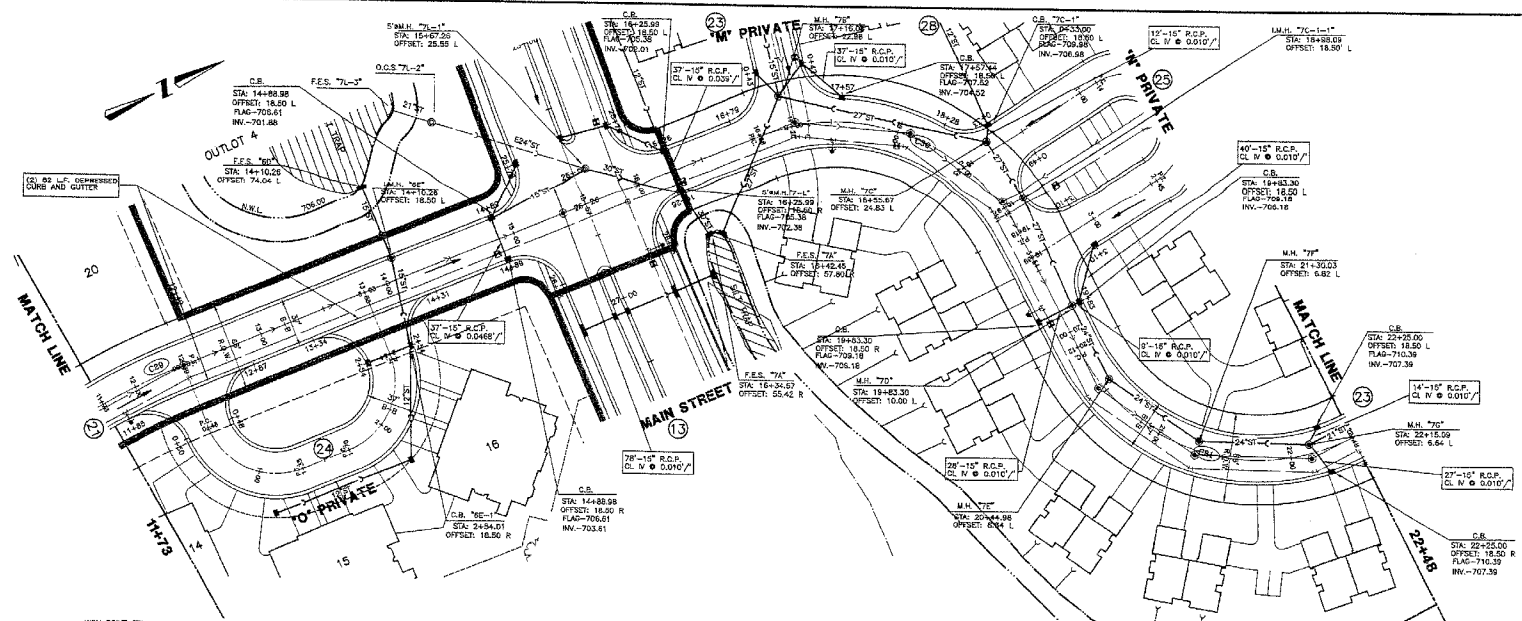
(C25)	R = 500.00'	(C27)	R = 750.00'
	Δ = 145°10'00"		Δ = 111°40'00"
	L = 129.50'		L = 147.08'
	T = 65.17'		T = 75.76'
	P.C. = 0+60		P.C. = 7+08
	P.T. = 1+90		P.T. = 8+55
(C26)	R = 300.00'	(C28)	R = 500.00'
	Δ = 25°06'07"		Δ = 6°01'11"
	L = 131.01'		L = 52.53'
	T = 66.88'		T = 26.29'
	P.C. = 2+94		P.C. = 9+53
	P.T. = 4+25		P.T. = 10+08

HIGH POINT ELEV = 723.11
 HIGH POINT STA = 2+19
 EX. M.H. STA. = 2+31
 EX. C.B. STA. = 2+20
 EX. C.B. STA. = 2+25

47TH AVENUE

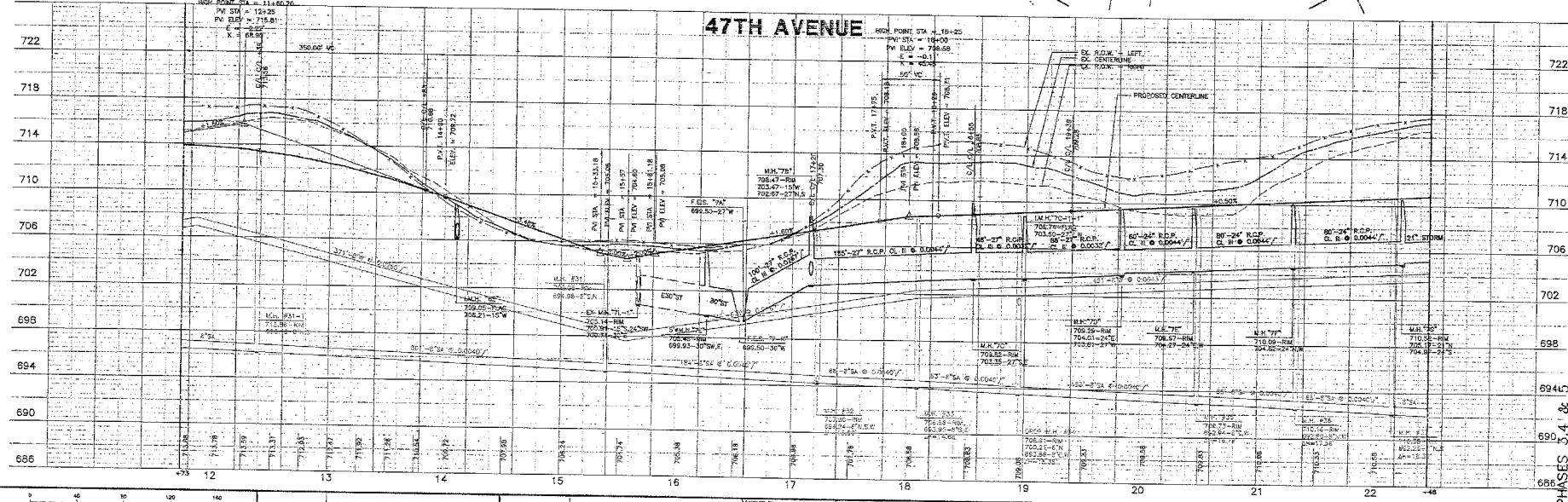


SCALE IN FEET 0 40 80 120 160		DESIGNED BY: JRM/AVT CHECKED BY: JRM DATE: 8-28-05	GREENGARD, INC. Engineers & Surveyors • CIVIL ENGINEERS 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60068-3623 PHONE: 847-454-3883 FAX: 847-434-0887 WWW.GREENGARDINC.COM	SCALE: 1"=40' DRAWN: JRM SHEET NO.: 46012 SHEET OF: 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, IL 47TH AVENUE PLAN & PROFILE STORM SEWER
SOLE PROPERTY OF GREENGARD, INC. AND NO REPRESENTATION OF USE IN FULL OR PART WITHOUT WRITTEN PERMISSION OF GREENGARD, INC.		REVISIONS: NO. DATE BY 1 3-22-06 RJP VILLAGE COMMENTS 2 4-1-06 RJP VILLAGE COMMENTS 3 5-17-05 RJP VILLAGE COMMENTS		PROJECT NO.: 05-0000000 SHEET NO.: 46012 OF: 51	

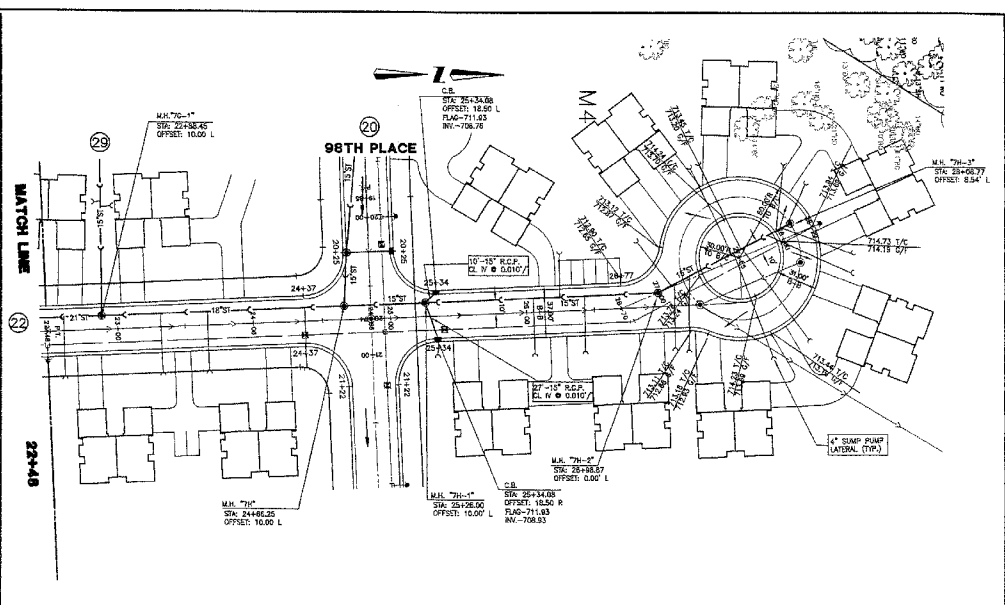
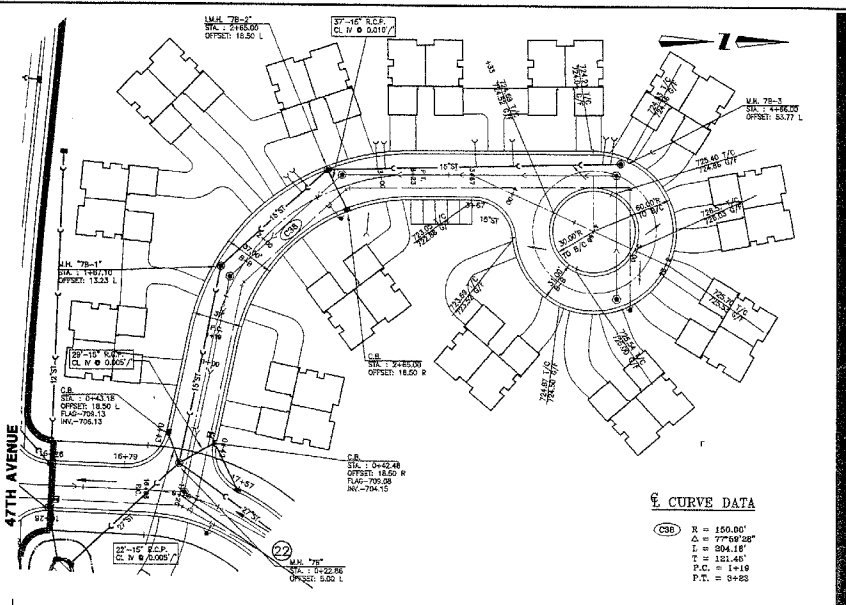


CURVE DATA

(C20)	R = 500.00'
	Δ = 73°08'
	L = 90.96'
	T = 30.99'
	P.C. = 11+78.3
	P.T. = 12+4.9
(C25)	R = 160.00'
	Δ = 84°48'04"
	L = 252.01'
	T = 136.97'
	P.C. = 18+86
	P.T. = 18+18
(C31)	R = 150.00'
	Δ = 69°50'43"
	L = 256.21'
	T = 148.66'
	P.C. = 20+12
	P.T. = 22+48



SCALE IN FEET 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		REVISIONS: NO. DATE BY/APP'D 1 3-23-05 PER VILLAGE COMMENTS 2 2-17-06 PER VILLAGE COMMENTS 3 1-11-06	DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature] DATE: 3-23-05	GREENGARD, INC. Engineers • Surveyors • Planners 111 Bantley Blvd., Suite 310, Lincolnshire, Illinois 60069-3823 PHONE: 847-637-3863 FAX: 847-637-0867 E-MAIL: info@greengard.com IL REGISTRATION NO. 184-000488	SHEET NO. 45012 OF 51 DATE: 22 OF 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 47TH AVENUE PLAN & PROFILE STORM SEWER
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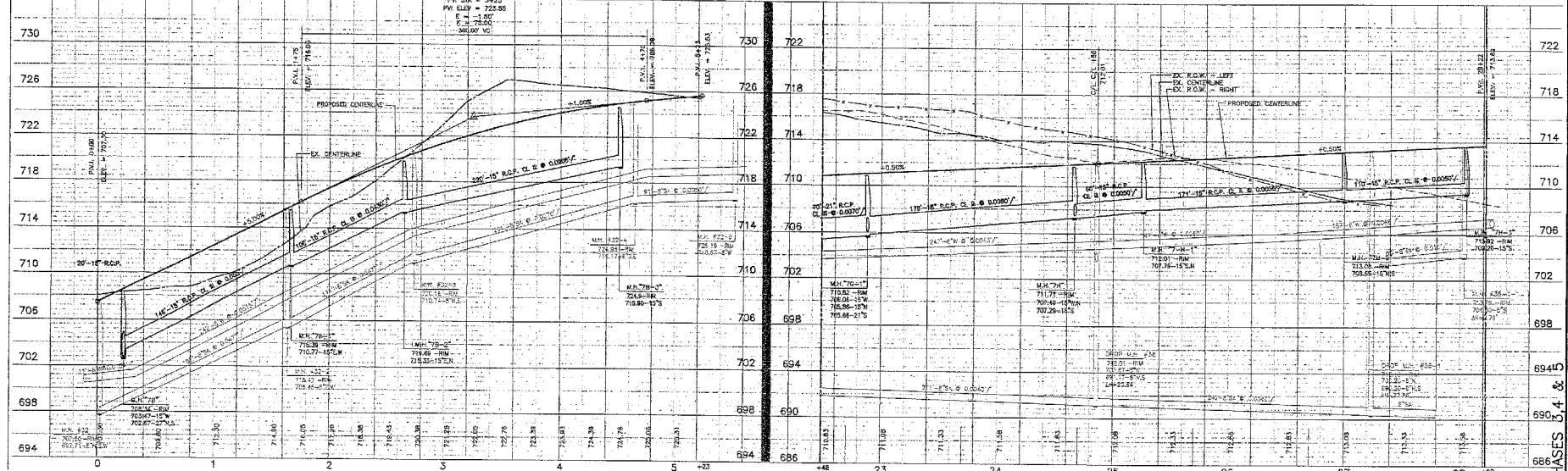


CURVE DATA

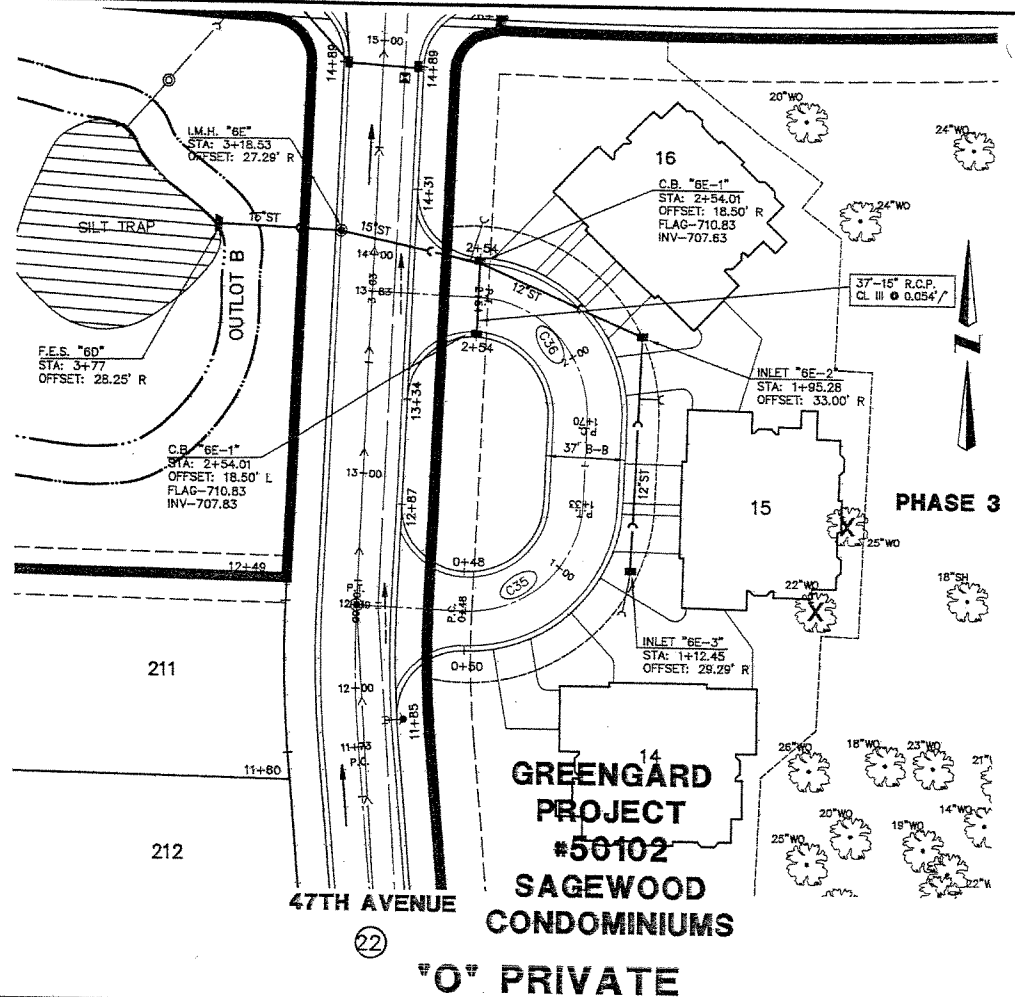
$R = 150.00'$
$\Delta = 77.68736^\circ$
$L = 304.11'$
$T = 131.48'$
$P.C. = 1+19$
$P.T. = 9+48$

"M" PRIVATE

47TH AVENUE

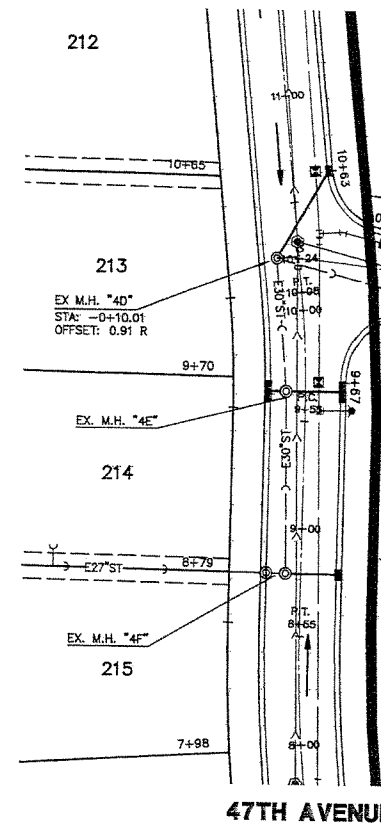


<p>SCALE IN FEET 0 20 40 60 80 100 120 140</p>		<p>DATE: 3-25-06 BY: J.A.-06 CHECKED BY: J.S.C.</p>	<p>PER VILLAGE COMMENTS PER VILLAGE COMMENTS</p>	<p>DESIGNED BY: J.S.C. DRAWN BY: J.S.C. CHECKED BY: J.S.C. DATE: 3-25-06</p>	<p>GREENGARD, INC. Engineers • Surveyors • Planners 111 Stanley Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-3313 FAX: 847-634-3311 WWW.GREENGARDINC.COM</p>	<p>PROJECT NO: 46012 SHEET NO: 23 OF 51</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 47TH AVE. / "M" PRIVATE PLAN & PROFILE STORM SEWER</p>
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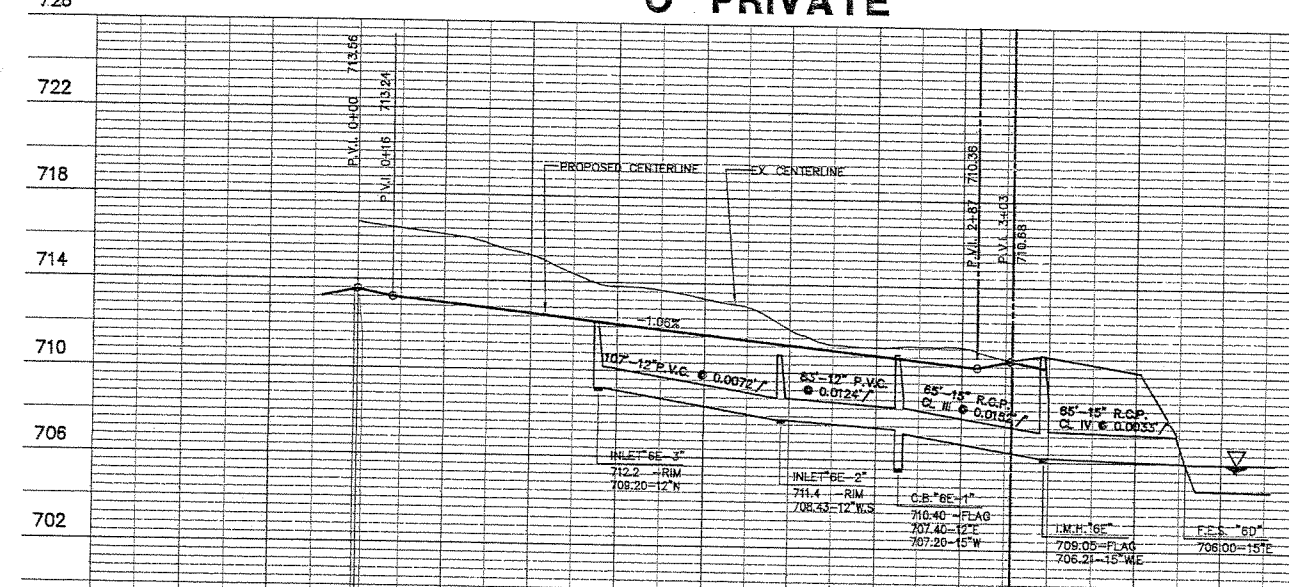
CURVE DATA

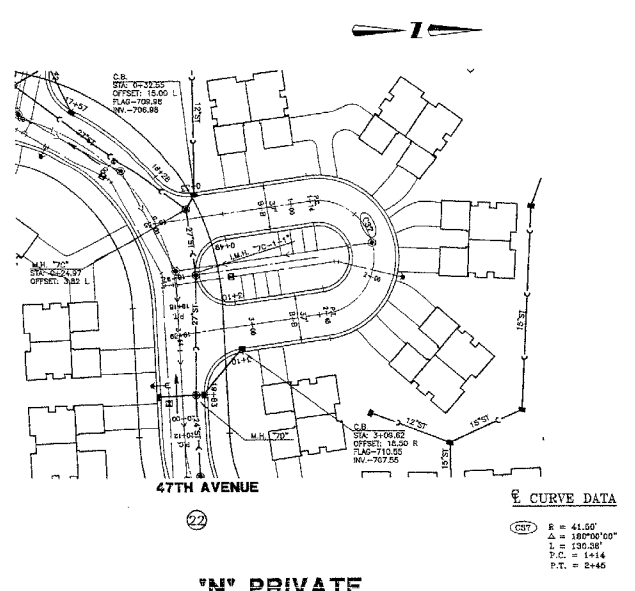
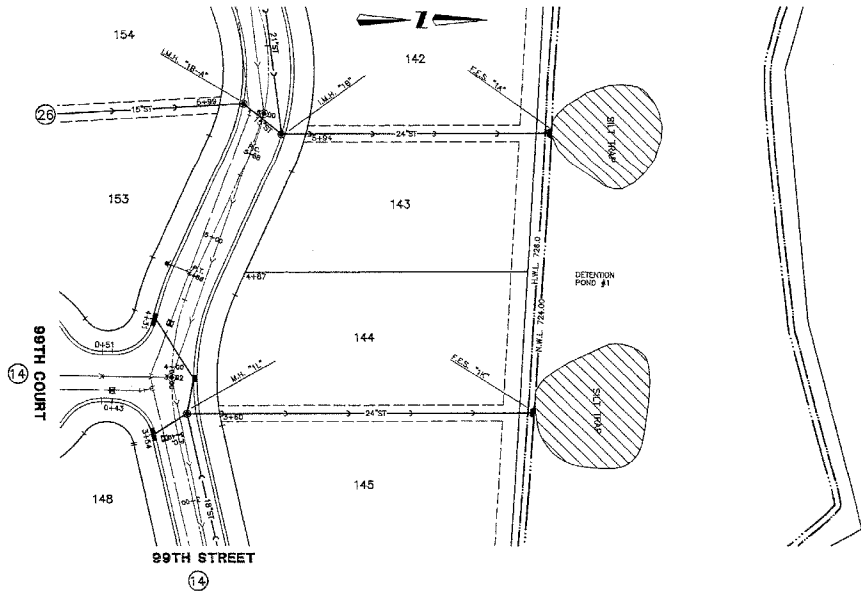
C35	R = 60.00'
	Δ = 90°00'00"
	L = 84.04'
	T = 53.50'
	P.C. = 0+48
	P.T. = 1+33
C36	R = 60.00'
	Δ = 90°00'00"
	L = 84.04'
	T = 53.50'
	P.C. = 1+70
	P.T. = 2+54



**14
GREENGARD
PROJECT
#50102
SAGEWOOD
CONDOMINIUMS**

0" PRIVATE

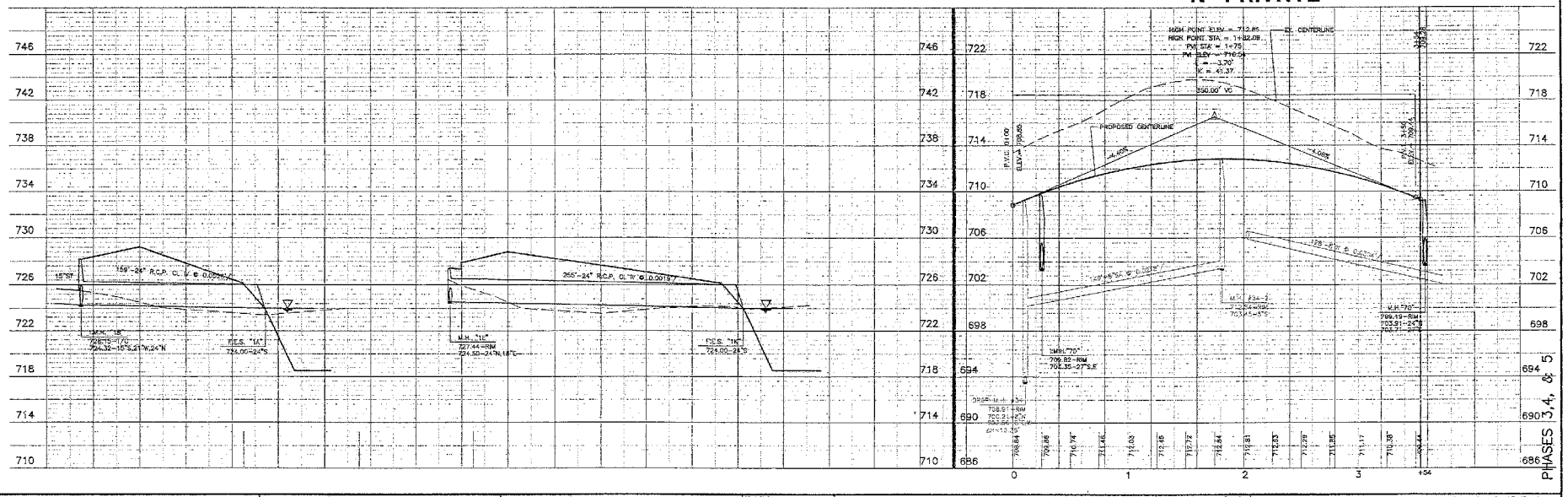




CURVE DATA

R = 41.55'
Δ = 186°00'00"
L = 130.58'
T.O. = 14.44'
P.T. = 2+45.0

'N' PRIVATE



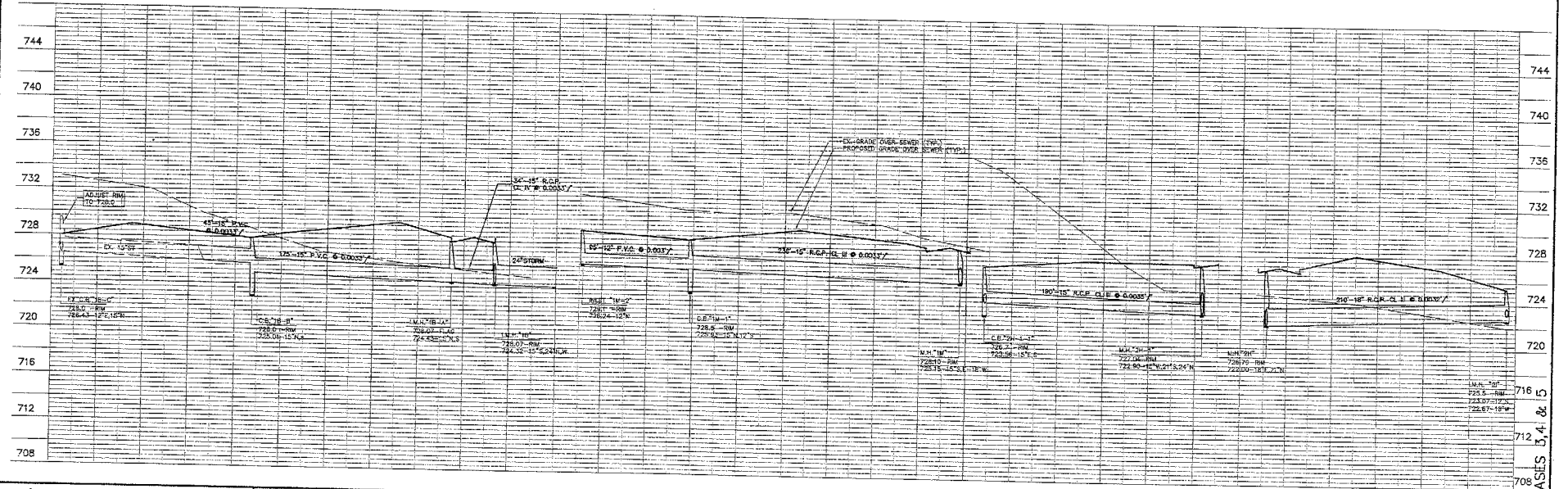
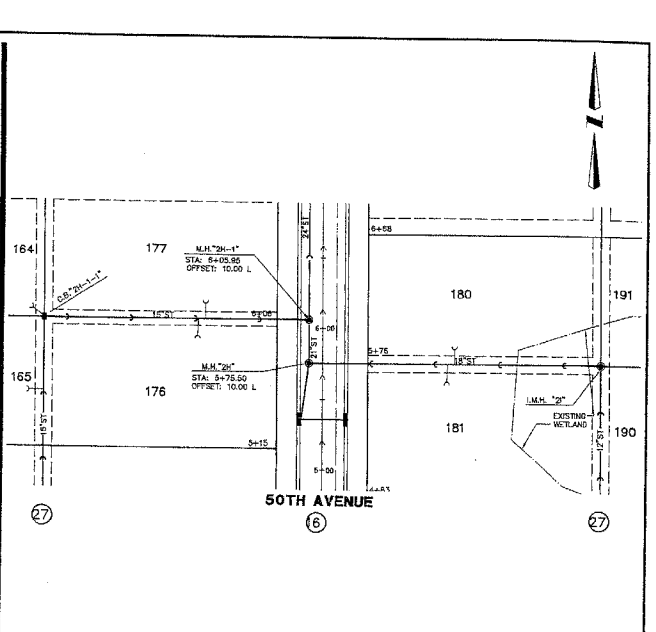
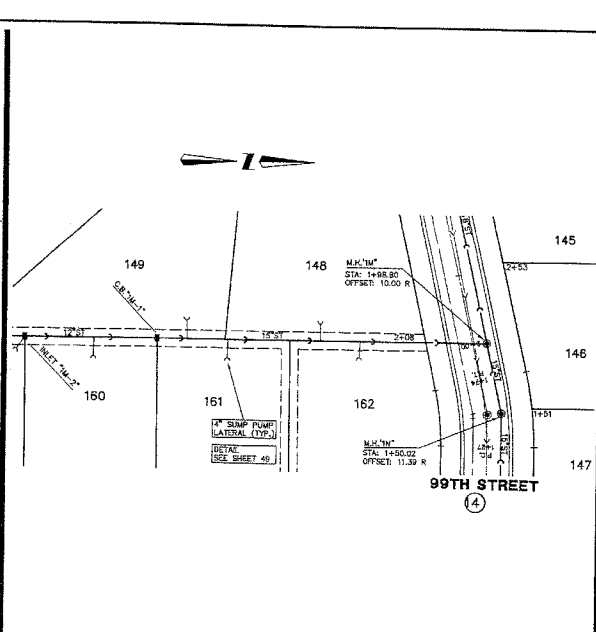
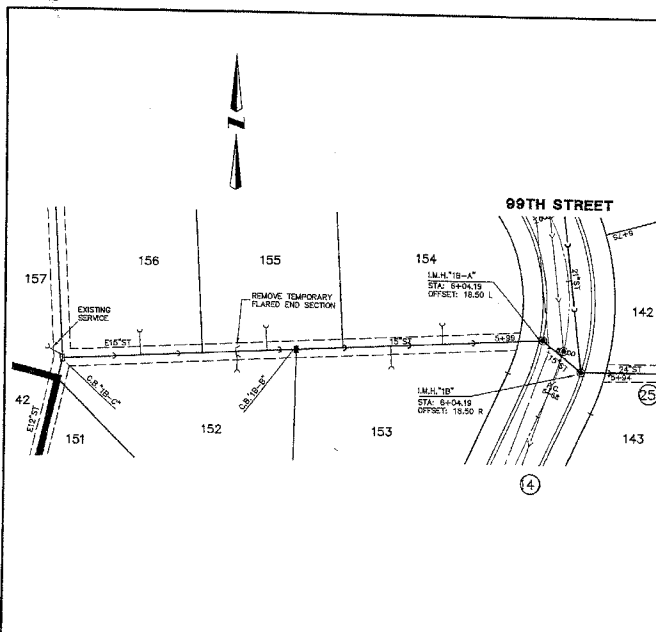
DATE	BY	CHKD	APP'D	DATE	BY	CHKD	APP'D
2-14-08	JHE			2-14-08	JHE		

DESIGNED BY	DATE
8-23-05	
CHECKED BY	DATE
8-11-05	
APPROVED BY	DATE
8-23-05	

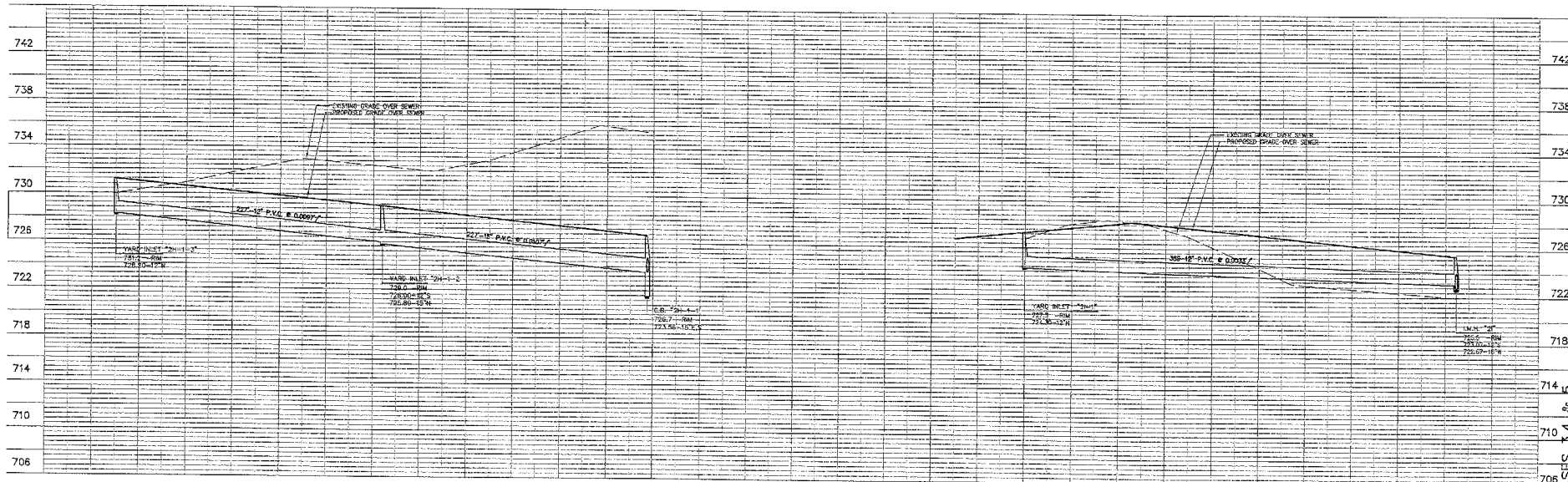
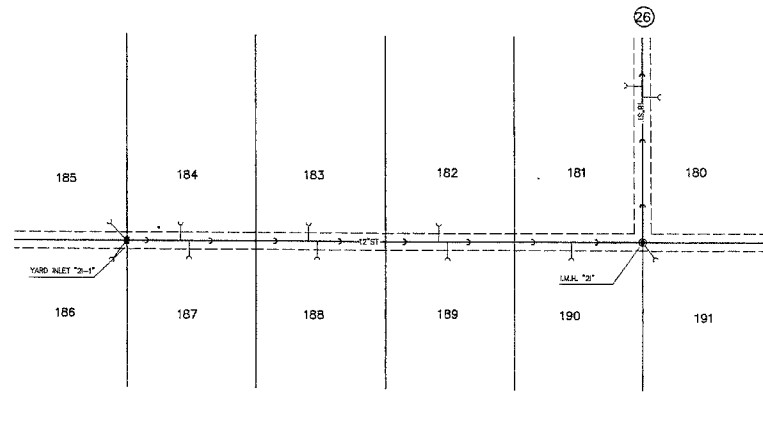
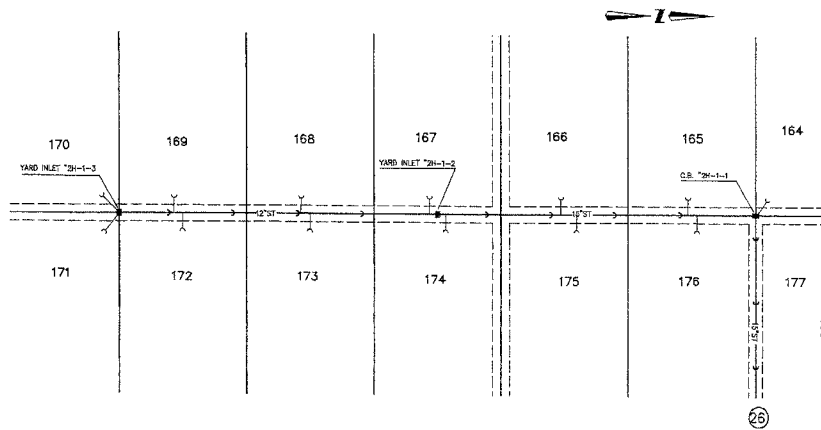
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
 PHONE: 847-434-2883 FAX: 847-434-0667
 E-MAIL: 22@GREENGARD.COM
 ILL. REGISTRATION NO. 124-000095

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 SIDE YARD/'N' PRIVATE PLAN & PROFILE
 STORM SEWER

PHASES 3, 4, & 5

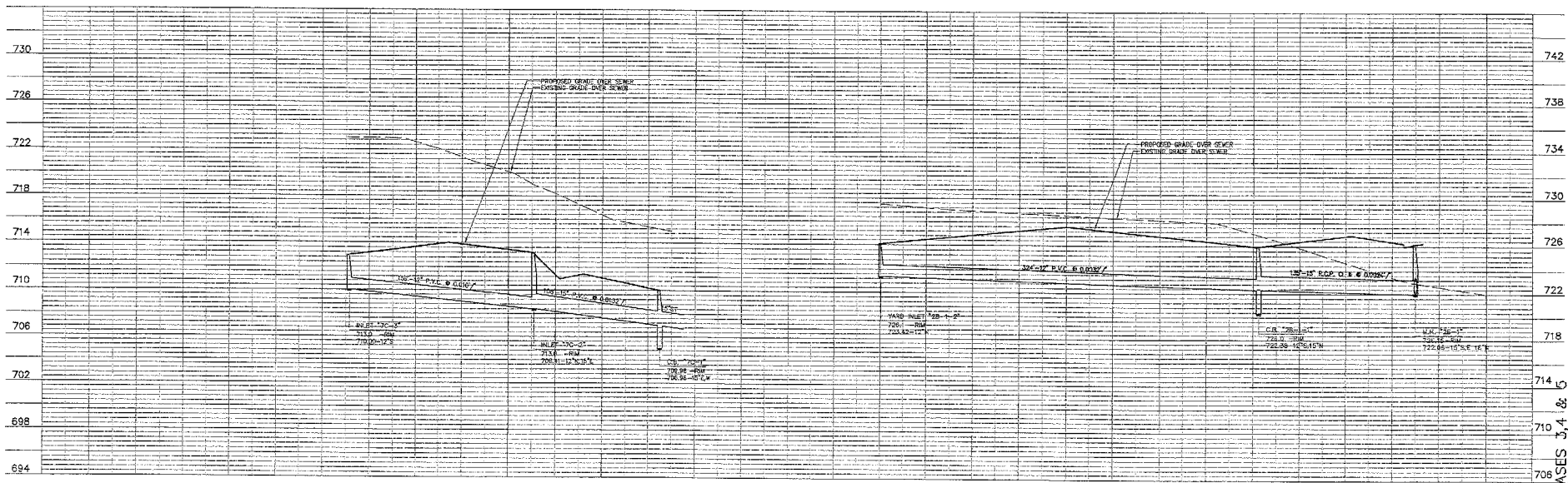
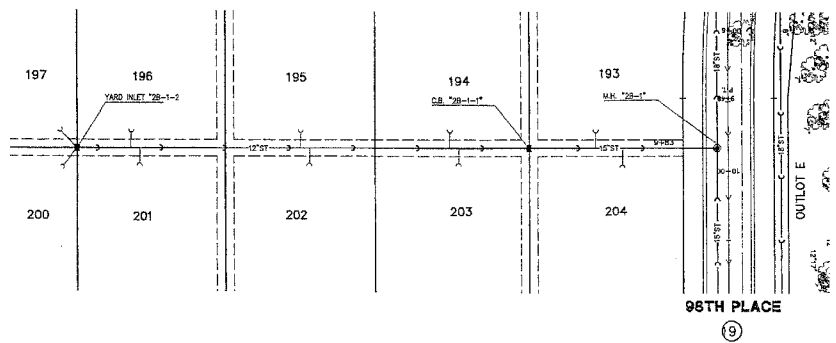
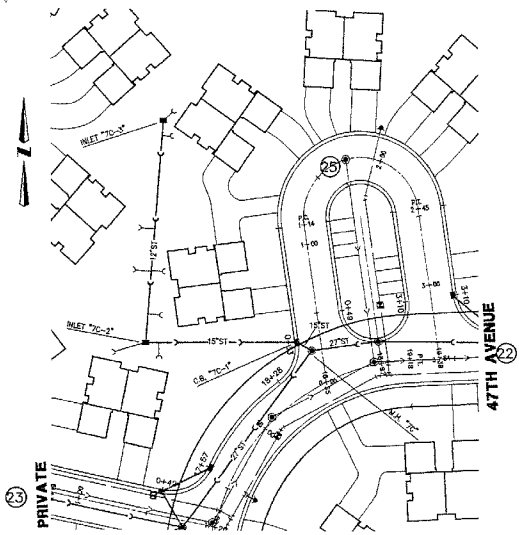


SCALE IN FEET 0 40 80 120 160		DATE: 8-28-05 DRAWN BY: [Name] CHECKED BY: [Name]	GRENGARD, INC. Engineers & Surveyors 111 Banbury Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-434-8868 FAX: 847-434-0667	SHEET: 28 OF 51 PROJECT: 46012 DATE: 8-28-05	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI REAR AND SIDE YARD PLAN & PROFILE STORM SFWR
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SCALE IN FEET 0 40 80 120 160		BY: [Signature] DATE: 8-26-05	PER VILLAGE COMMENTS: REVISIONS:	APPROVED BY: [Signature] DATE: 8-26-05	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60068-3823 PHONE: 847-655-2883 FAX: 847-655-0887	SCALE: HORIZ: 1"=40' VERT: 1"=4' DRAWING NO: 480-2 SHEET: 27 OF 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI REAR AND SIDE YARD PLAN & PROFILE STORM SEWER
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DATE: 08/26/05 10:58:58 AM PROJECT: 0505000000



0 40 80 120 160
SCALE IN FEET

DESIGNED BY	DATE	CHECKED BY	DATE
DRP/AVK	8-28-02	AVK	8-28-02
DESIGNED BY	DATE	CHECKED BY	DATE
AVK	8-28-02	AVK	8-28-02
APPROVED BY	DATE	DATE	DATE
AVK	8-28-02		



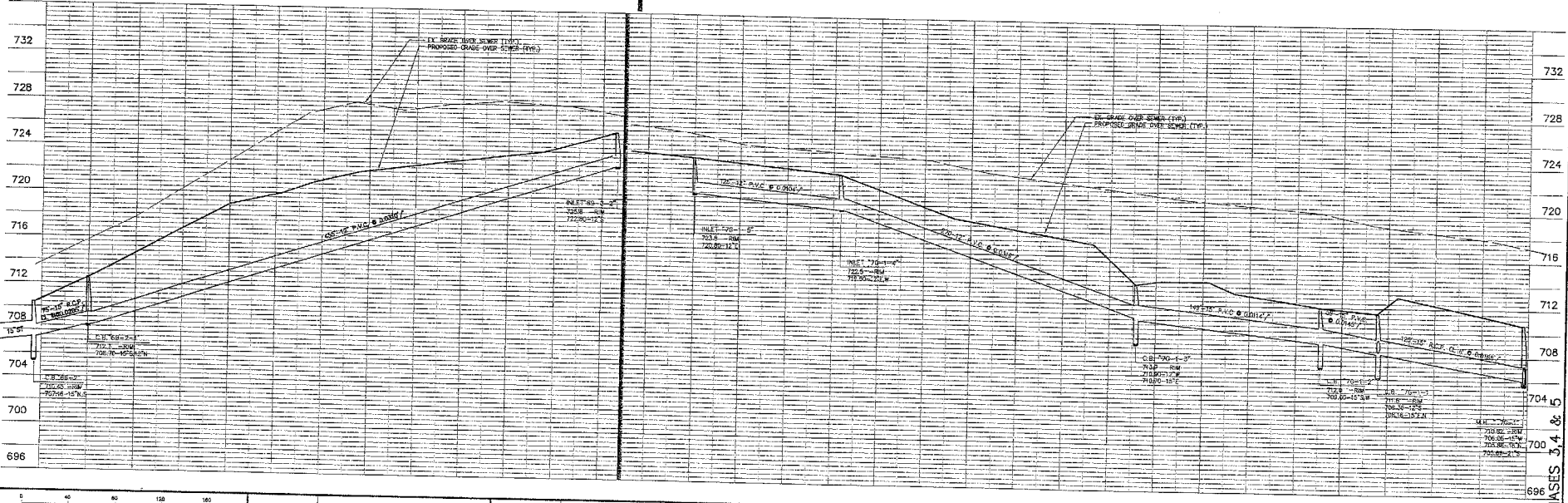
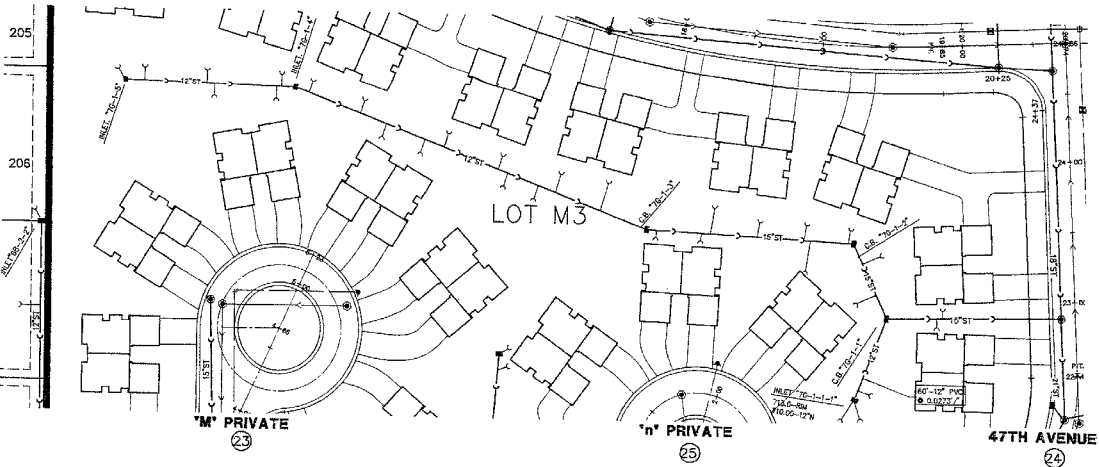
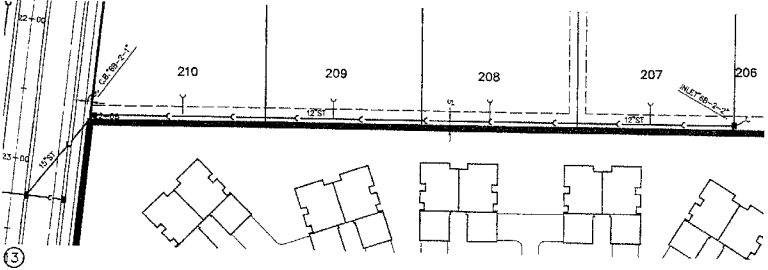
GREENARD, INC.
Engineers • Surveyors • Planners
111 Barclay Blvd., Suite 210, Lincolnshire, Illinois 60069-3823
PHONE: 630-454-3823 FAX: 630-454-0877
E-MAIL: 317@GREENARD.COM
ILL. REGISTRATION NO. 184-000695

PROJECT	NO. 17-40
DATE	VER. 17-4
PROJECT NO.	460-2
PROJECT	28 of 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
REAR AND SIDE YARD PLAN & PROFILE
STORM SEWER

PHASES 3, 4 & 6

MAIN STREET



SCALE IN FEET

REV 3-28-08 PER VILLAGE COMMENTS
 REV 2-14-08 PER VILLAGE COMMENTS
 DATE BY

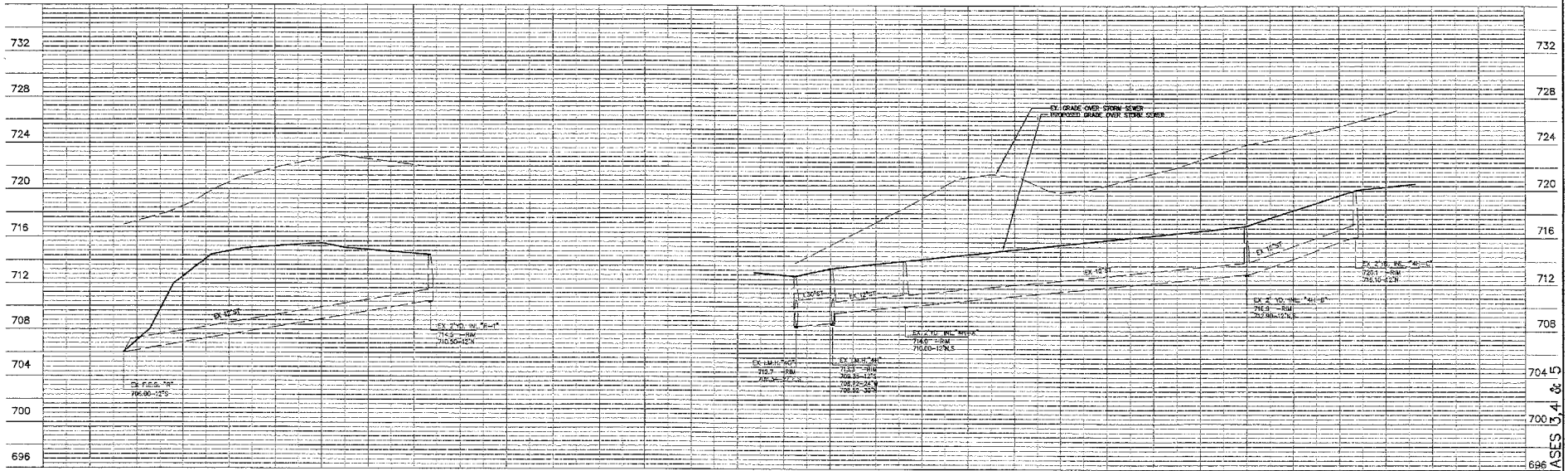
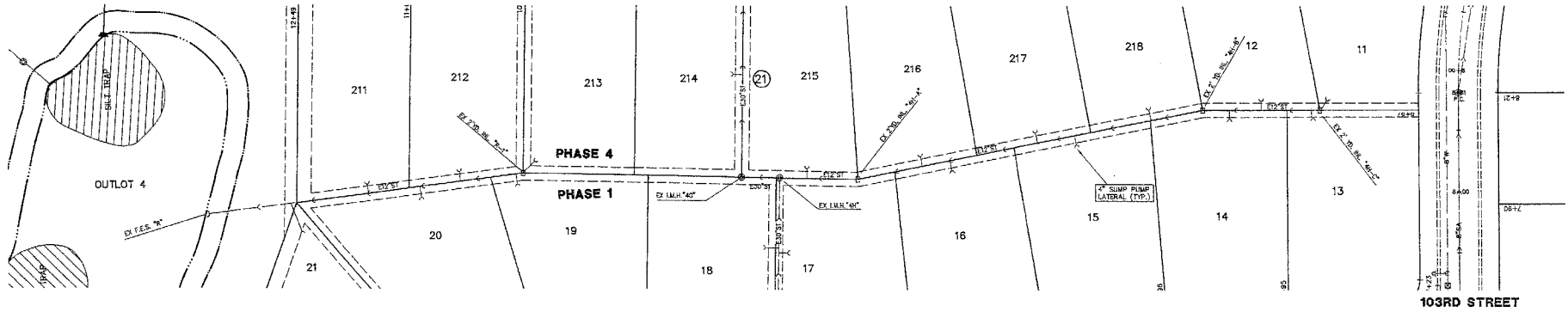


GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60469-3623
 PHONE: 847-634-8888 FAX: 847-634-0887
 E-MAIL: INFO@GREENGARD.COM WWW.GREENGARD.COM REGISTRATION NO. 184-000066

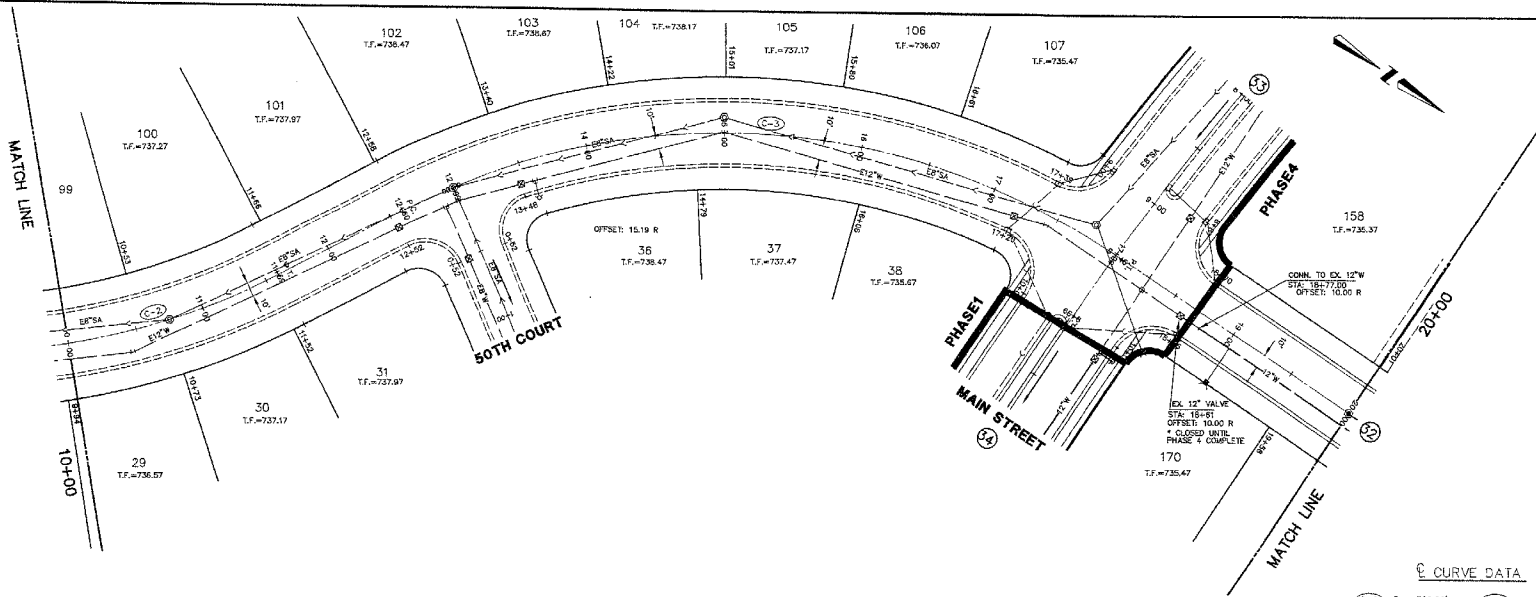
DATE: 8-28-08
 SCALE: 8-28-08
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: 8-28-08

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
 REAR AND SIDE YARD PLAN & PROFILE
 STORM SFWR

PHASES 1, 2, 3, 4, 5



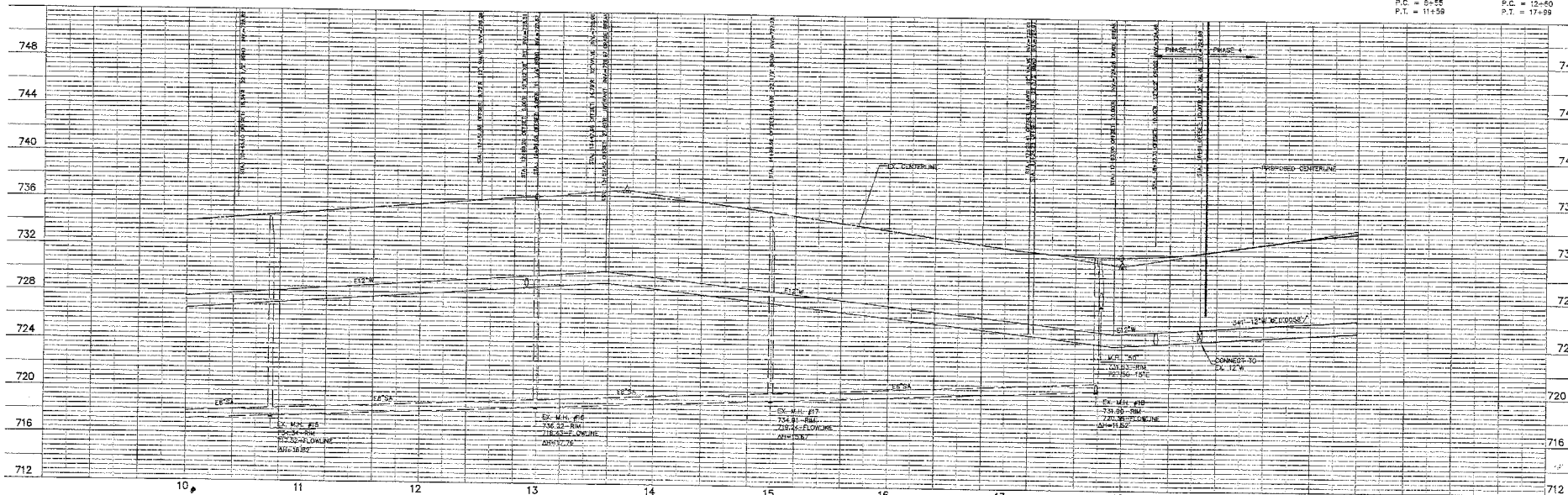
0 40 80 120 160 SCALE IN FEET		DRAWN BY: DATE:	DESIGNED BY: DATE:	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd, Suite 310, Lincolnshire, Illinois 60069-3523 PHONE 847-634-3883 FAX 847-634-0807 E-MAIL 231802@GNDINC.COM ALL REGISTRATION NO. 184-000095	DRAWN BY: DATE:	DESIGNED BY: DATE:	PROJECT NO. 48012 SHEET 30 of 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI REAR AND SIDE YARD PLAN & PROFILE STORM SEWER
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COOPER ROAD

⊂ CURVE DATA

⊂-2	R = 500.00'	⊂-3	R = 500.00'
	Δ = 34°37'08"		Δ = 61°44'02"
	L = 304.64'		L = 538.98'
	T = 152.32'		T = 269.75'
	P.C. = 6+55		P.C. = 12+60
	P.T. = 11+59		P.T. = 17+99



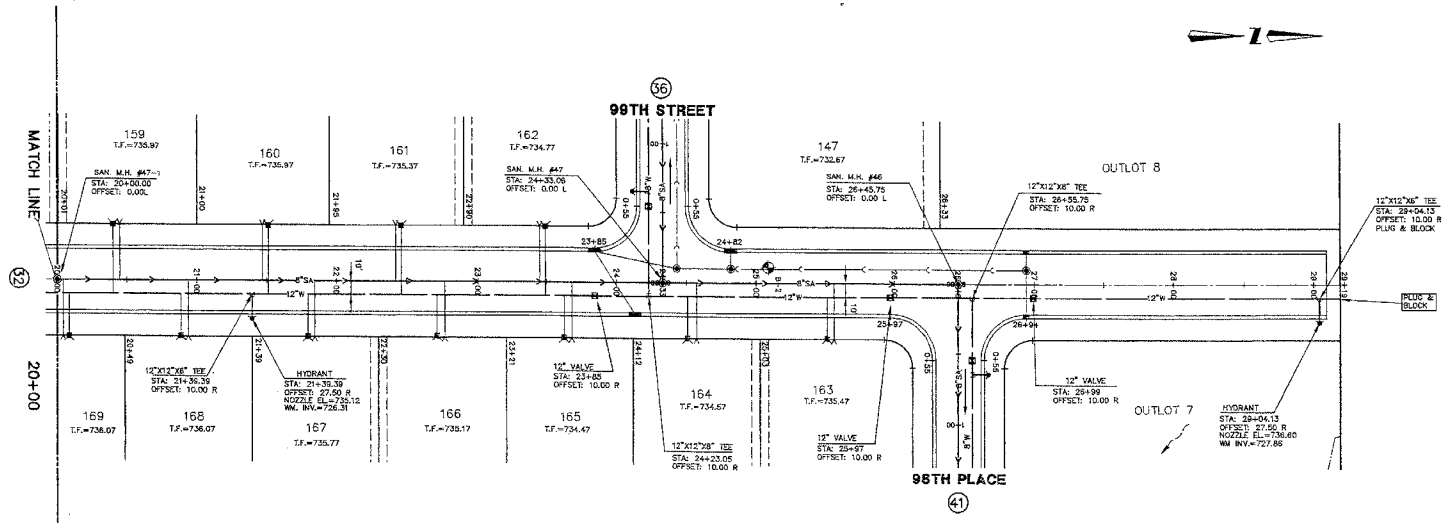
DATE	BY	REVISION
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8-29-05	DM	1.01
8-29-05	DM	1.02
8-29-05	DM	1.03



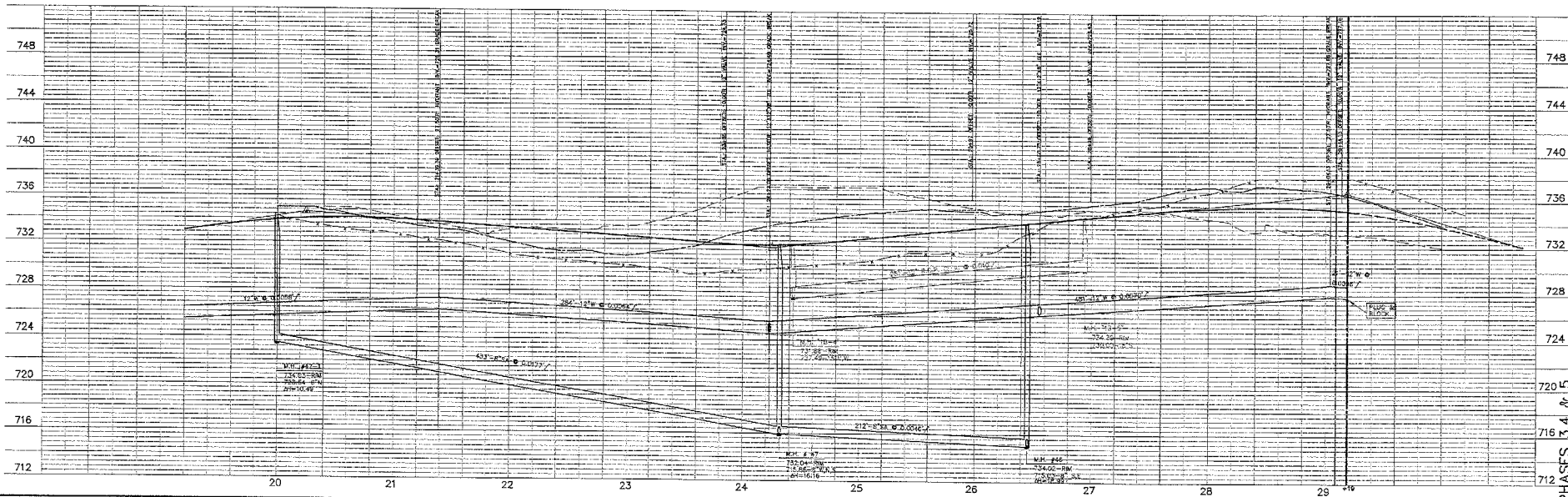
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Berkeley Blvd., Suite 310, Lincolnshire, Illinois 60069-3823
 PHONE: 847-634-5883 FAX: 847-634-0887
 E-MAIL: G@GREENGARD.COM
 ILL. REGISTRATION NO. 194-000925

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, W
COOPER ROAD PLAN & PROFILE
 SANITARY SEWER & WATER MAIN

DRAWN BY: J. J. JENSEN
 CHECKED BY: J. J. JENSEN
 DATE: 8-28-05

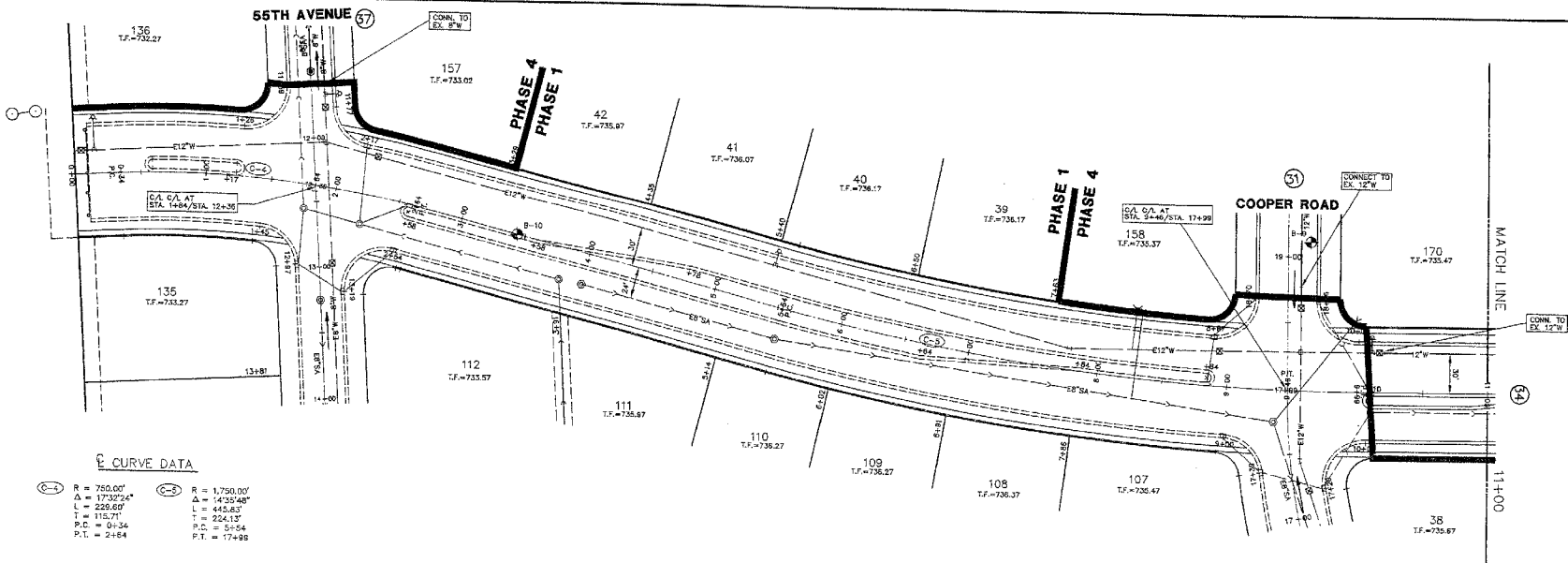


COOPER ROAD



SCALE IN FEET 0 40 80 120 160		REVISIONS NO. DATE BY	DATE: 6-24-06 DRAWN BY: [Signature] CHECKED BY: [Signature]	GREENGARD, INC. 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3823 PHONE: 847-454-3883 FAX: 847-454-3887	SHEET: 32 OF 51 PROJECT: 46012	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI COOPER ROAD PLAN & PROFILE SANITARY SEWER & WATER MAIN
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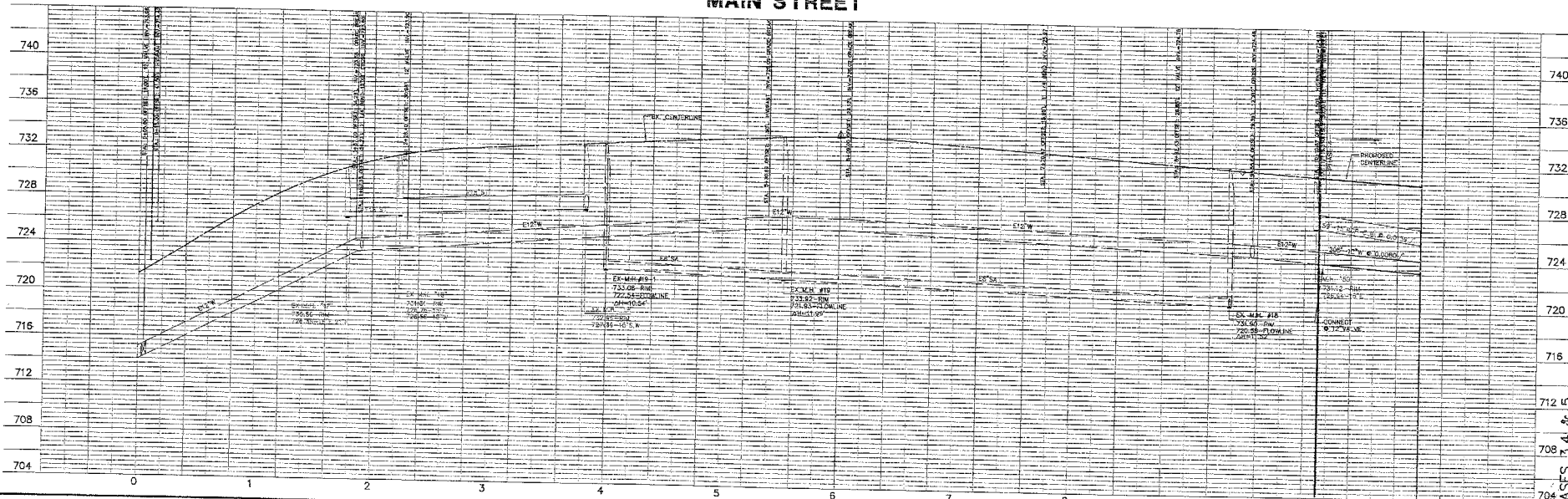
PHASES 3, 4, & 5



CURVE DATA

<p> $R = 750.00'$ $\Delta = 173^{\circ}24'$ $L = 229.89'$ $T = 115.71'$ $P.C. = 0+34$ $P.T. = 2+64$ </p>	<p> $R = 1,750.00'$ $\Delta = 143^{\circ}48'$ $L = 445.63'$ $T = 224.13'$ $P.C. = 5+54$ $P.T. = 17+98$ </p>
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MAIN STREET



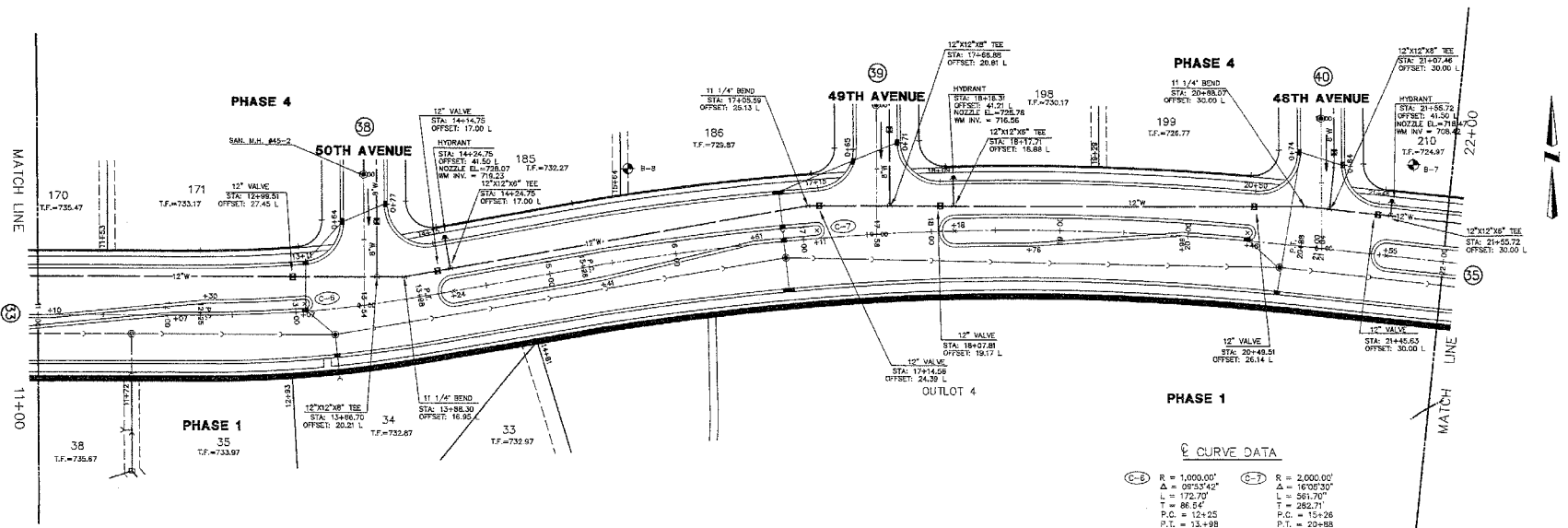
<p>SCALE IN FEET</p> <p>0 50 100 150</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>	<p>DATE: 8-15-05</p> <p>BY: S-F-05</p> <p>FOR VILLAGE COMMENTS: 20-04-05</p>
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GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Sandley Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
 PHONE 847-334-9800 FAX 847-334-9877

BLANK: NONE
 SHEET: 45012
 TOTAL SHEETS: 33 OF 51

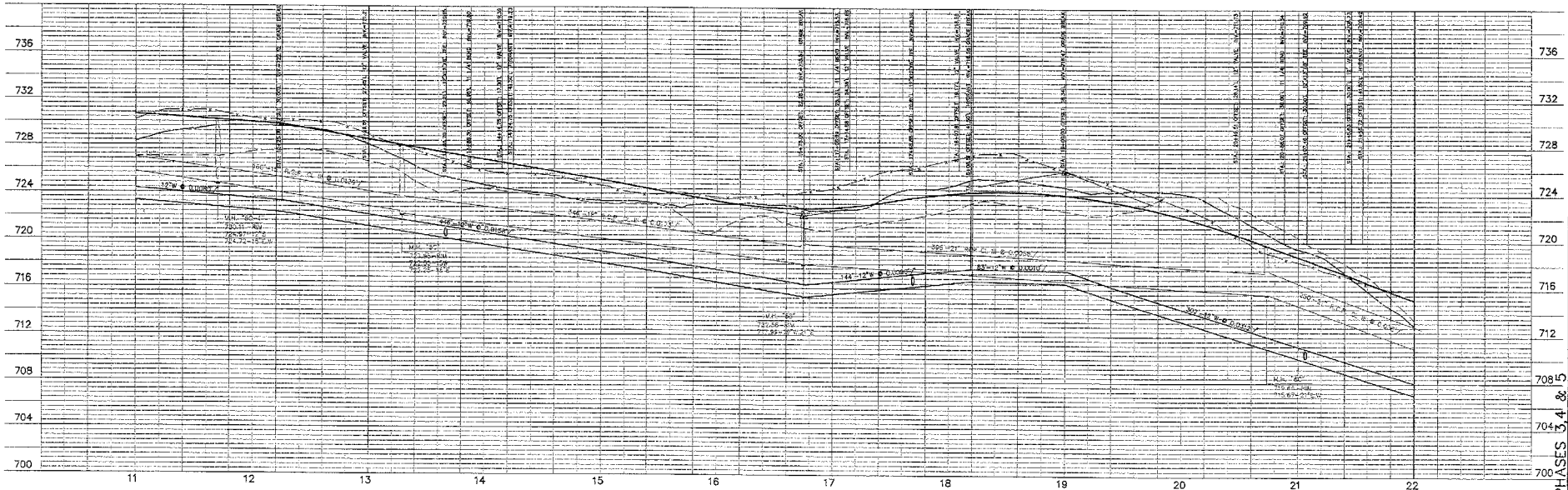
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
MAIN STREET PLAN & PROFILE
 SANITARY SEWER & WATER MAIN



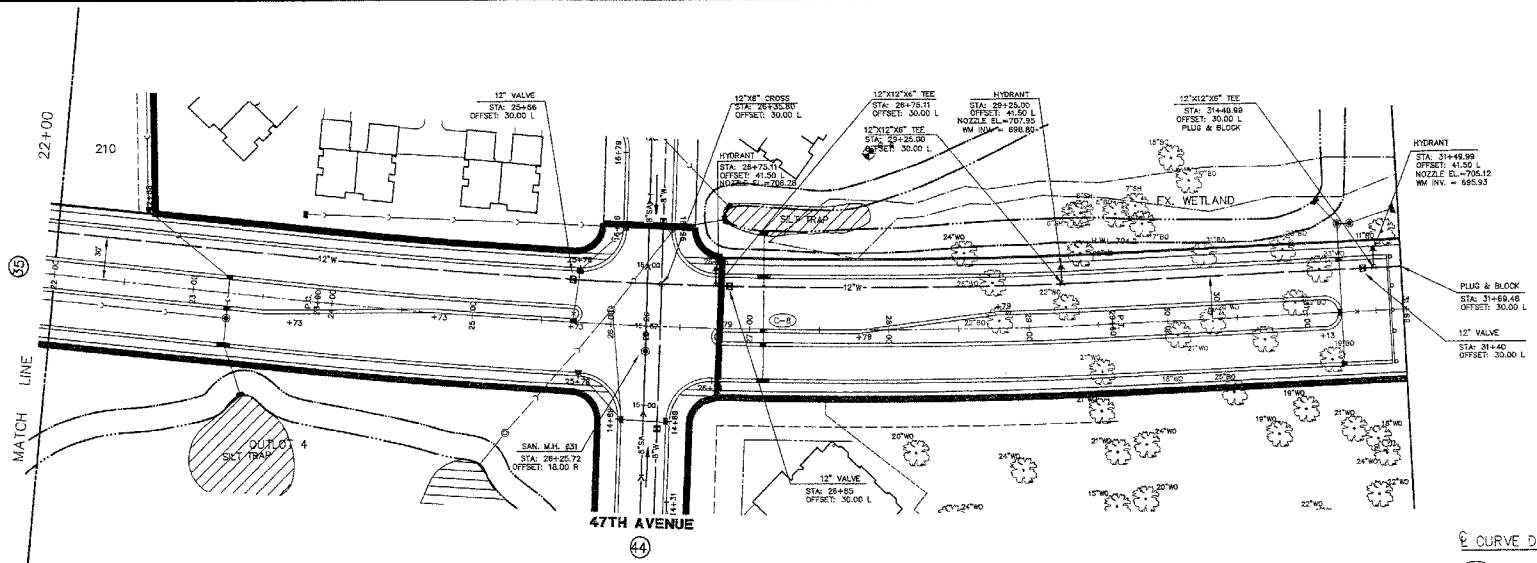
⊘ CURVE DATA

(C-6)	R = 1,000.00'	(C-7)	R = 2,000.00'
	Δ = 09°53'42"		Δ = 16°05'30"
	L = 172.70'		L = 361.70'
	T = 86.34'		T = 282.71'
	P.C. = 12+25		P.C. = 15+26
	P.T. = 13+98		P.T. = 20+88

MAIN STREET



SCALE: 1" = 40' 0 40 80 120 160		DESIGNED BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]	GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-3888 FAX: 847-634-0887 E-MAIL: STG@GGONLINE.COM ILL. REGISTRATION NO. 184-000843	DRAWING NO.: 46012 SHEET: 34 of 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI MAIN STREET PLAN & PROFILE SANITARY SEWER & WATER MAIN
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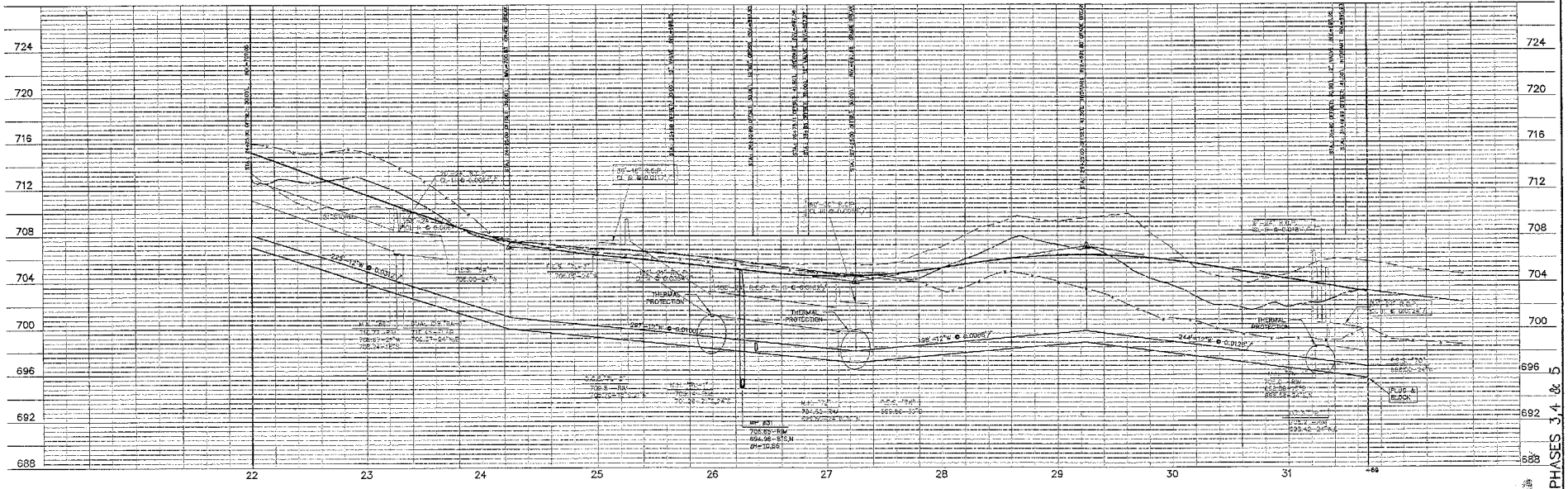


Curve Data

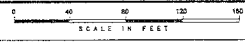
(C-1)

R	= 3,800.00'
Δ	= 08°56'01"
L	= 570.39'
T	= 285.73'
P.C.	= 23+80
P.T.	= 29+60

MAIN STREET



PHASES 3, 4 &



REVISED BY: 3-02-06 PER VILLAGE COMMENTS
 BY: 4-8-06 PER VILLAGE COMMENTS
 DATE: 4/20

DESIGNED BY: DBF/AMT DATE: 6-25-05
 CHECKED BY: RJC DATE: 8-26-05
 APPROVED BY: DBF DATE: 6-26-05

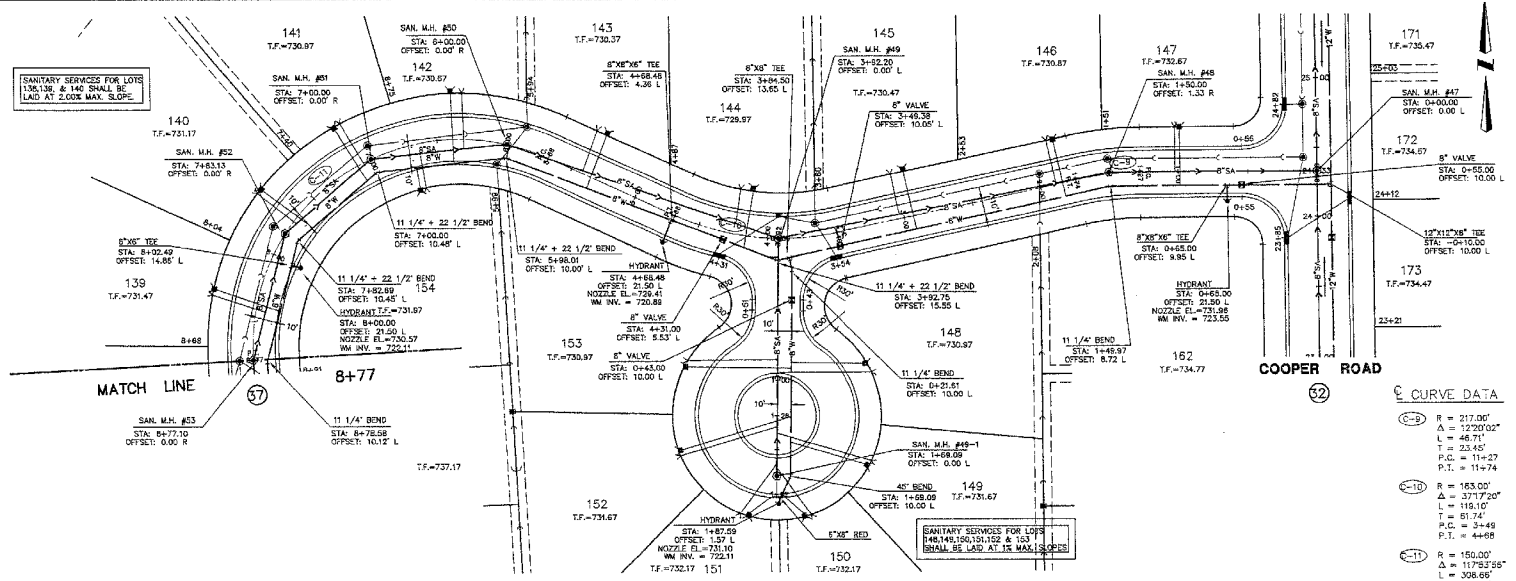


GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
 PHONE: 847-464-9883 FAX: 847-464-9887
 CHAIR: DR. BRUCE GREENGARD
 LL REGISTRATION NO. 184-000664

SCALE: HORIZ. 1"=40'
 VERT. 1"=4'
 DRAWING NO.: 46012
 SHEET: 35 OF 51

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, ILL.
MAIN STREET PLAN & PROFILE
SANITARY SEWER & WATER MAIN

SANITARY SERVICES FOR LOTS 136, 139 & 140 SHALL BE LAID AT 2.00% MAX. SLOPE

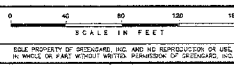
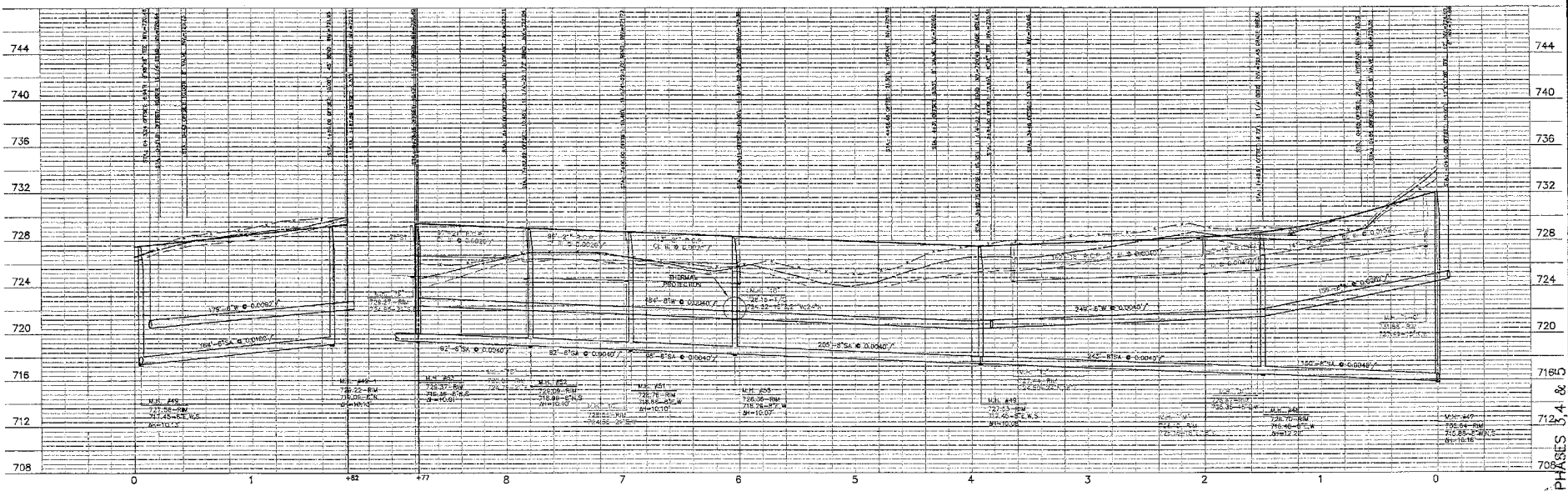


CURVE DATA

9	R = 217.00'
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	L = 46.71'
	T = 23.45'
	P.C. = 11+57
	P.T. = 11+74
10	R = 163.00'
	Δ = 371°7'20"
	L = 119.10'
	T = 51.74'
	P.C. = 3+48
	P.T. = 4+48
11	R = 150.00'
	Δ = 117°52'55"
	L = 308.65'
	T = 245.14'
	P.C. = 5+58
	P.T. = 8+77

99TH COURT

99TH STREET



DESIGNED BY	DATE	SCALE
DRYING BY	DATE	
APPROVED BY	DATE	

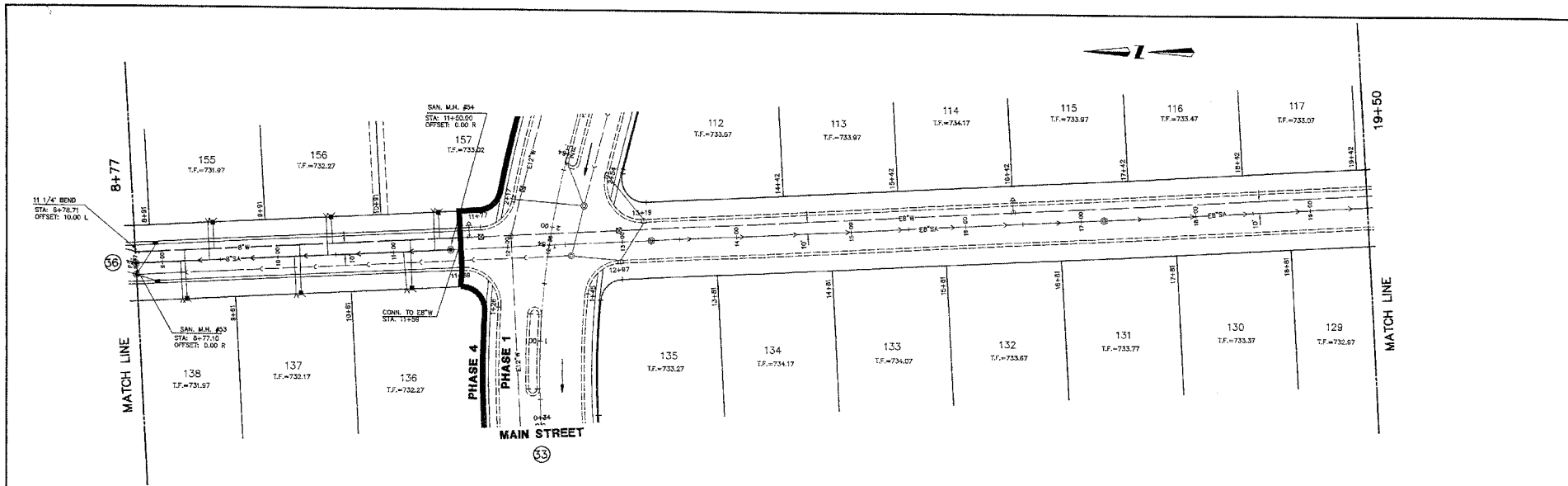
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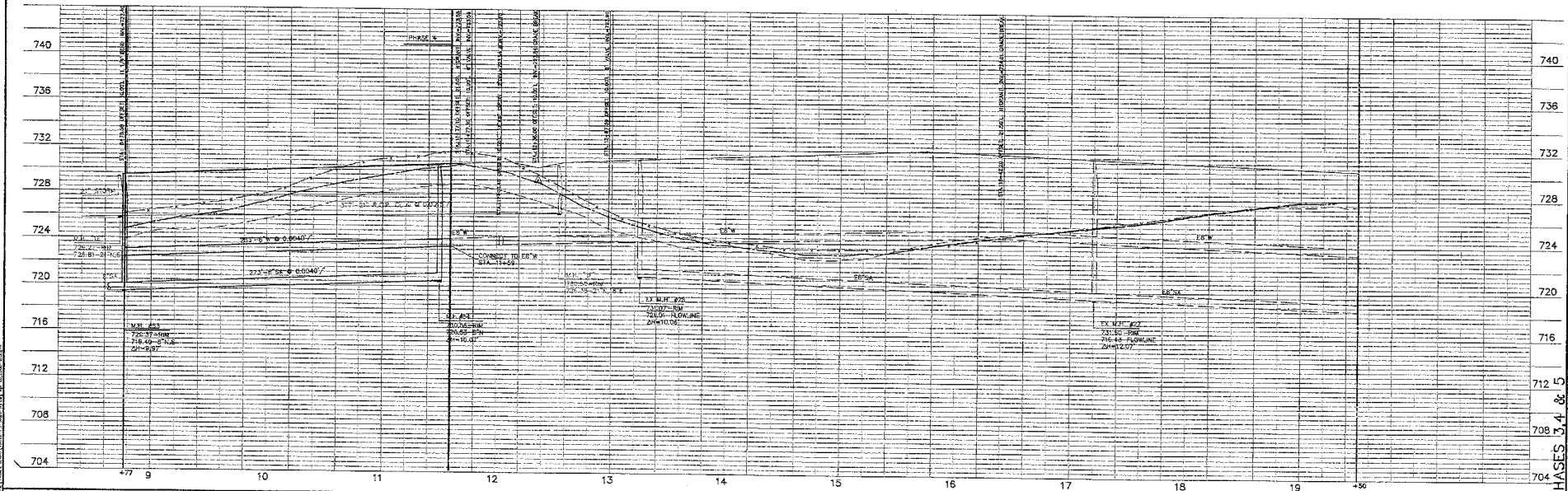
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3823
 PHONE: 847-634-0363 FAX: 847-634-0367
 E-MAIL: OFFICE@GREENGARD.COM
 ILL. REGISTRATION NO. 164-000685

DATE	NO. 1	NO. 2
DATE	NO. 3	NO. 4
DATE	NO. 5	NO. 6
DATE	NO. 7	NO. 8
DATE	NO. 9	NO. 10
DATE	NO. 11	NO. 12
DATE	NO. 13	NO. 14
DATE	NO. 15	NO. 16
DATE	NO. 17	NO. 18
DATE	NO. 19	NO. 20
DATE	NO. 21	NO. 22
DATE	NO. 23	NO. 24
DATE	NO. 25	NO. 26
DATE	NO. 27	NO. 28
DATE	NO. 29	NO. 30
DATE	NO. 31	NO. 32
DATE	NO. 33	NO. 34
DATE	NO. 35	NO. 36
DATE	NO. 37	NO. 38
DATE	NO. 39	NO. 40
DATE	NO. 41	NO. 42
DATE	NO. 43	NO. 44
DATE	NO. 45	NO. 46
DATE	NO. 47	NO. 48
DATE	NO. 49	NO. 50
DATE	NO. 51	NO. 52
DATE	NO. 53	NO. 54
DATE	NO. 55	NO. 56
DATE	NO. 57	NO. 58
DATE	NO. 59	NO. 60
DATE	NO. 61	NO. 62
DATE	NO. 63	NO. 64
DATE	NO. 65	NO. 66
DATE	NO. 67	NO. 68
DATE	NO. 69	NO. 70
DATE	NO. 71	NO. 72
DATE	NO. 73	NO. 74
DATE	NO. 75	NO. 76
DATE	NO. 77	NO. 78
DATE	NO. 79	NO. 80
DATE	NO. 81	NO. 82
DATE	NO. 83	NO. 84
DATE	NO. 85	NO. 86
DATE	NO. 87	NO. 88
DATE	NO. 89	NO. 90
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DATE	NO. 95	NO. 96
DATE	NO. 97	NO. 98
DATE	NO. 99	NO. 100

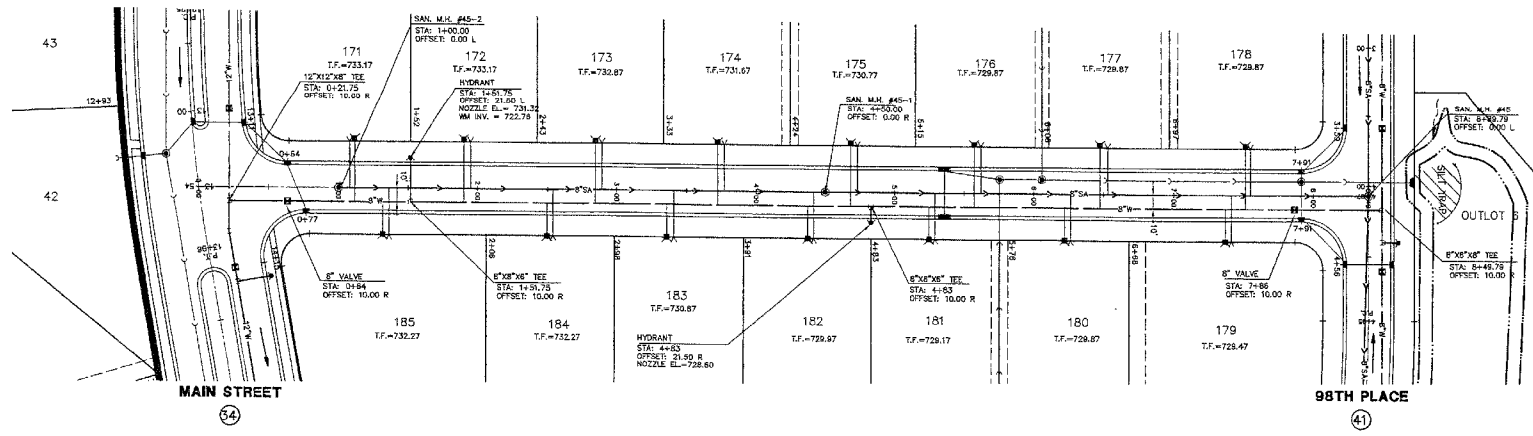
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, ILL.
 99TH ST./99TH CT PLAN & PROFILE
 SANITARY SEWER & WATERMAIN



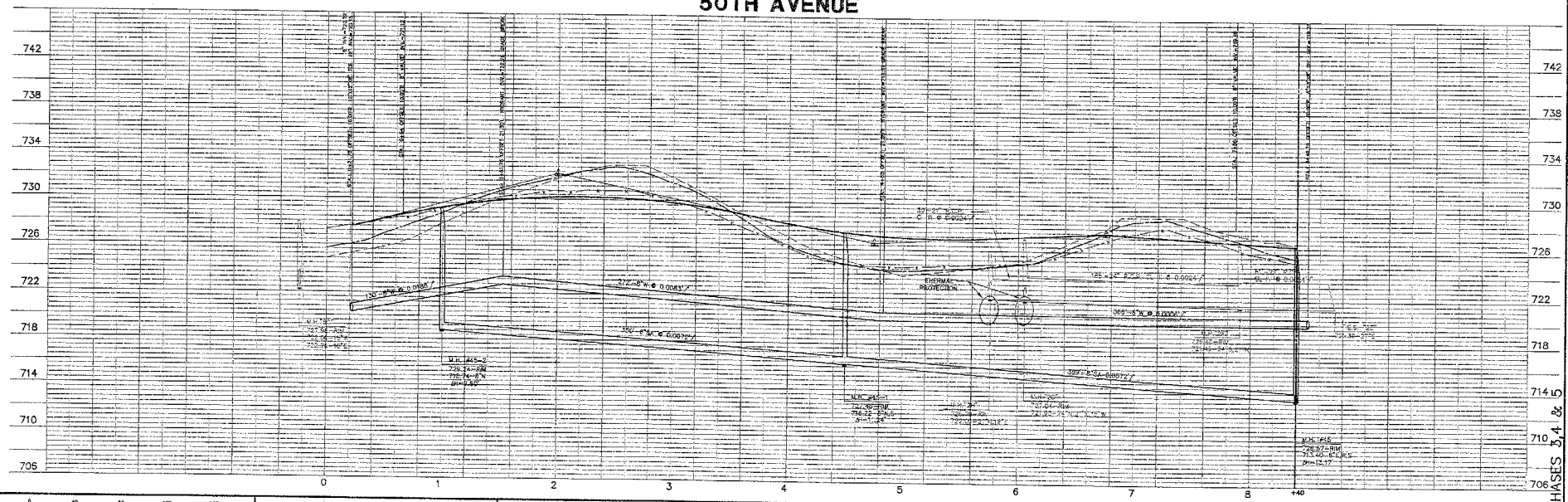
55TH AVENUE



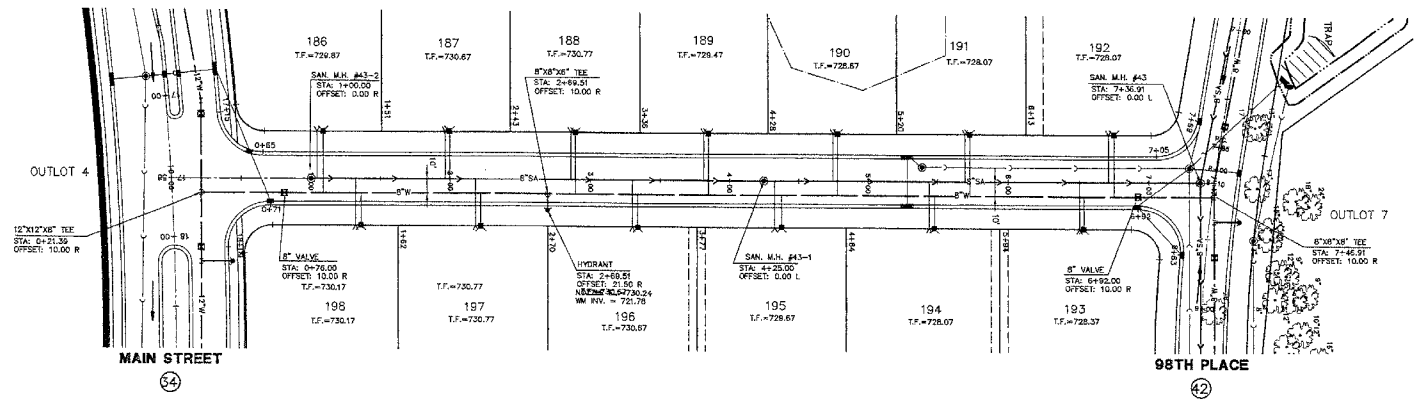
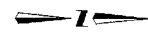
SCALE IN FEET 0 40 80 120 160		DRAWN BY: DRP/AMT DATE: 8-26-05	CHECKED BY: SPS DATE: 8-26-05	DESIGNED BY: SPS DATE: 8-26-05	GREENGARD, INC. Engineers & Surveyors • P.L.L.C. 111 Boroy Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-0863 FAX: 847-634-0867	SHEET NO: 46012 SHEET: 37 OF 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 55TH AVENUE PLAN & PROFILE SANITARY SEWER & WATER MAIN
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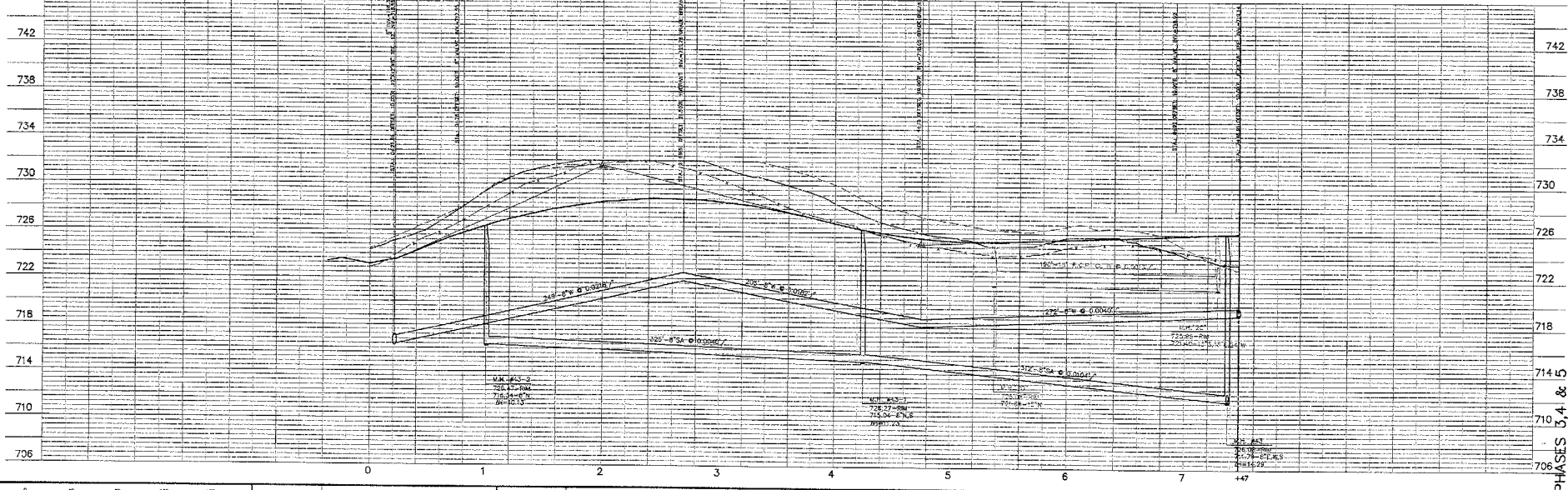
50TH AVENUE



SCALE IN FEET 0 40 80 120 160		BY 3-23-06 PER VILLAGE COMMENTS DWG 2-4-06 PER VILLAGE COMMENTS DATE 3-23-06	REVISION NO. DATE DESCRIPTION	DESIGNED BY: JVS 3-23-06 CHECKED BY: JVS 3-23-06 DRAWN BY: JVS 3-23-06	GREENGARD, INC. Engineers • Surveyors • Planners 111 Berkeley Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-244-8888 FAX: 847-434-0887 E-MAIL: INFO@GREENGARD.COM ILL. REGISTRATION NO. 194-000925	WORK NUMBER: 46012 SHEET: 36 OF 51 PROJECT: VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 50TH AVENUE PLAN & PROFILE SANITARY SEWER & WATER MAIN
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49TH AVENUE

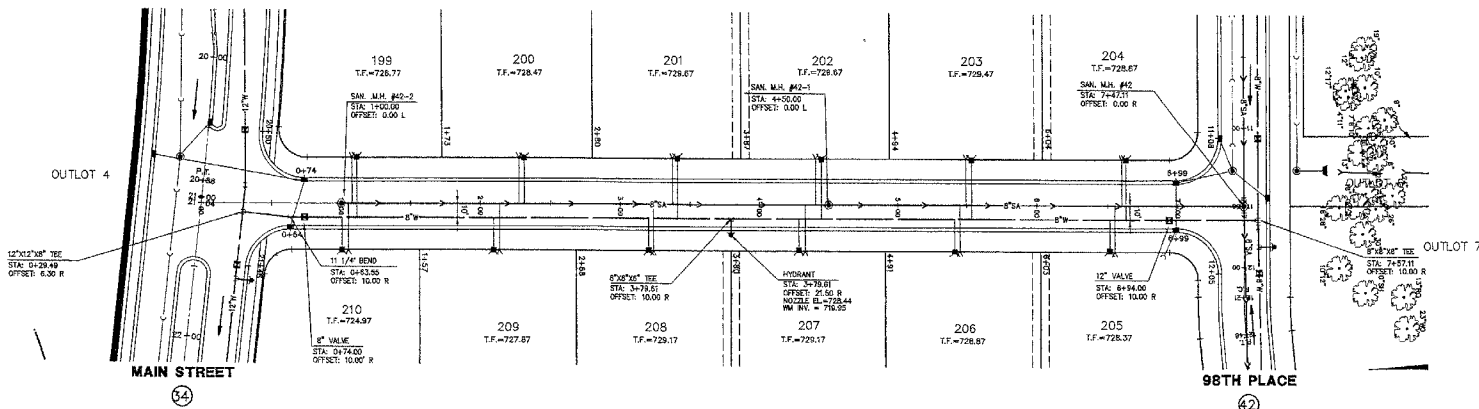


SCALE IN FEET 0 20 40 60 80 100 120 140 160		DESIGNED BY: DRP DATE: 8-26-05 CHECKED BY: DRP DATE: 8-26-05 APPROVED BY: DRP DATE: 8-26-05	PROJECT: VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI SHEET: 39 OF 51
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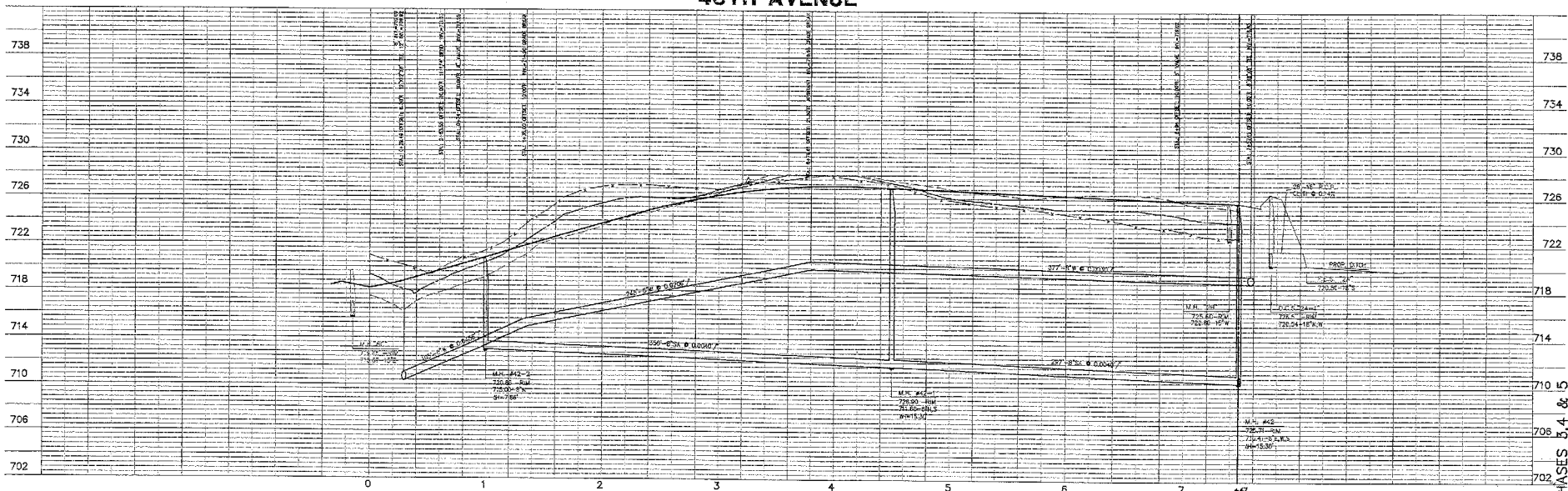
GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
 PHONE: 815-454-3883 FAX: 815-454-0857
 E-MAIL: OTH@GREENGARDINC.COM
 ILL. REGISTRATION NO. 104-000989

VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
49TH AVENUE PLAN & PROFILE
 SANITARY SEWER & WATERMAIN

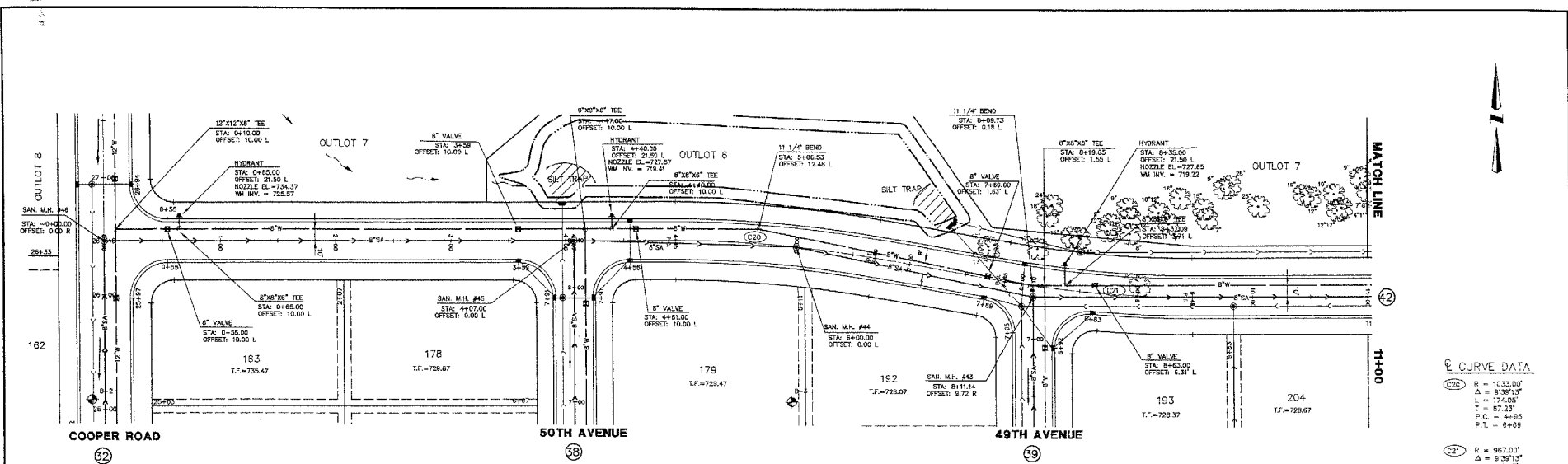
PHASES 3, 4 & 5



48TH AVENUE



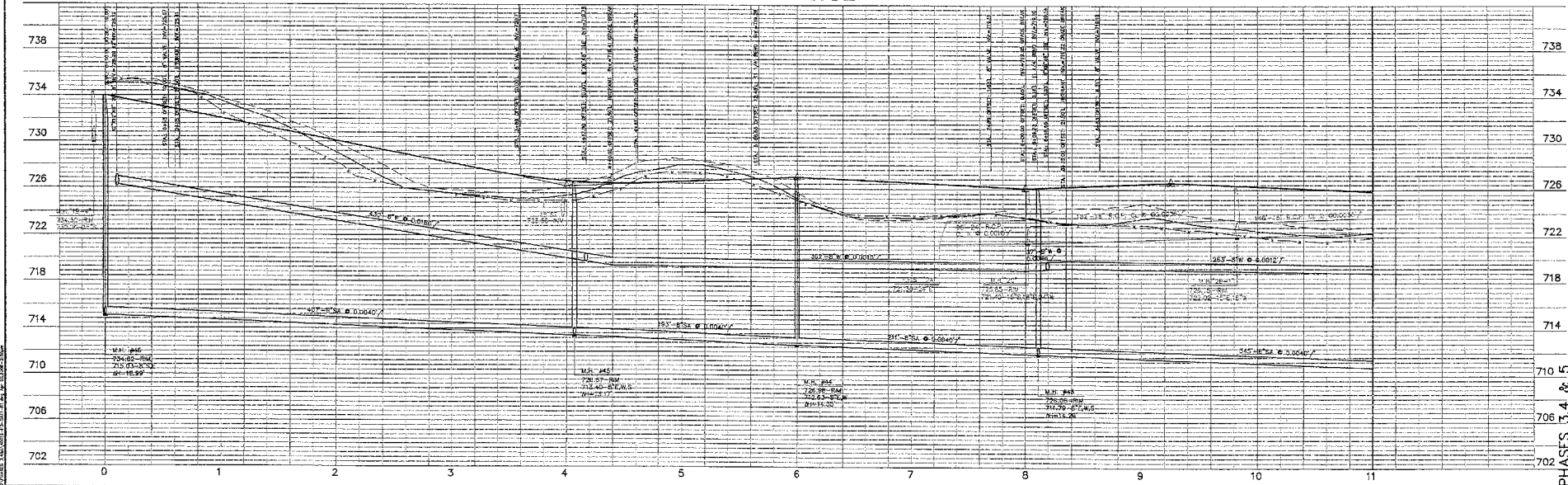
SCALE IN FEET 0 40 80 120 160		DESIGNED BY: DRP/JMT DATE: 8-24-05	CHECKED BY: DRP DATE: 8-24-05	APPROVED BY: DRP DATE: 8-24-05	GREENGLASS, INC. Engineers • Surveyors • Planners 11 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3523 PHONE: 847-634-1963 FAX: 847-634-1967 E-MAIL: INFO@GREENGLASS.COM WWW: WWW.GREENGLASS.COM	PROJECT NO.: 46012 SHEET NO.: 40 OF 51	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 48TH AVENUE PLAN & PROFILE SANITARY SEWER & WATER MAIN
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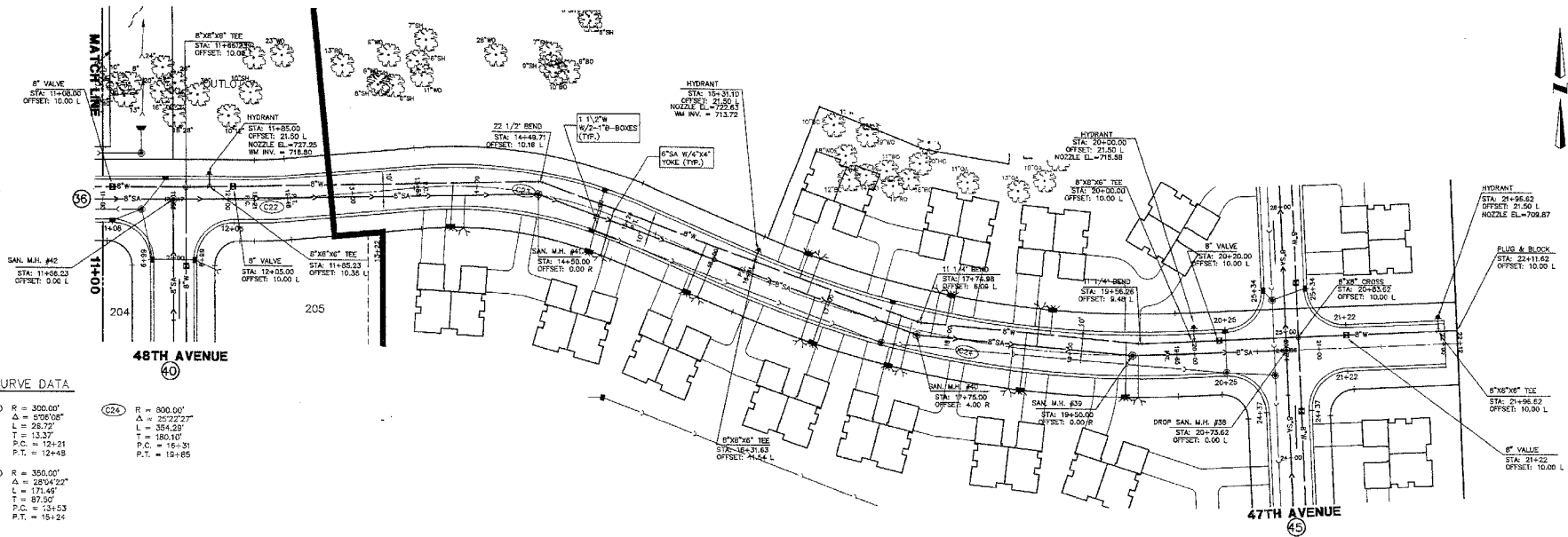
CURVE DATA

(C20)	R = 1033.00'
	Δ = 8°38'13"
	L = 174.05'
	T = 87.23'
	P.C. = 4+85
	P.T. = 6+09
(C21)	R = 957.00'
	Δ = 8°38'13"
	L = 162.93'
	T = 81.96'
	P.C. = 7+85
	P.T. = 9+48

98TH PLACE



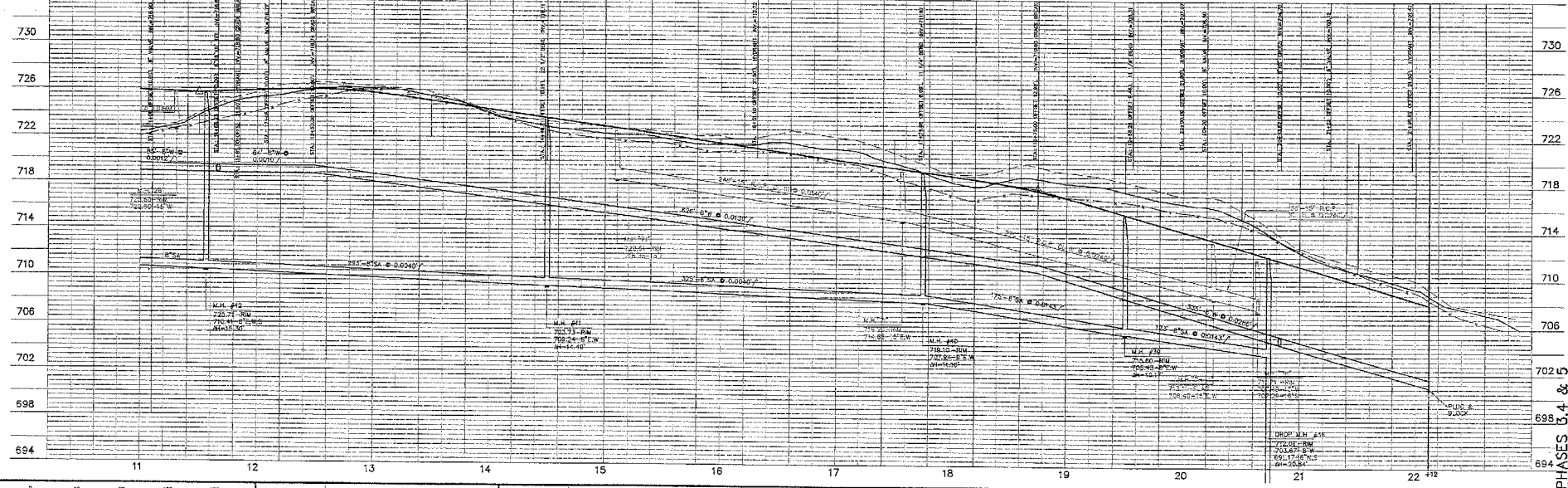
<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>		<p>DATE: 8-24-05</p> <p>BY: [Signature]</p>		<p>DATE: 8-24-05</p> <p>BY: [Signature]</p>		<p>DATE: 8-24-05</p> <p>BY: [Signature]</p>		<p>DATE: 8-24-05</p> <p>BY: [Signature]</p>		<p>DATE: 8-24-05</p> <p>BY: [Signature]</p>	
<p>GREENGARD, INC.</p> <p>111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3223</p> <p>PHONE: 847-434-2383 FAX: 847-434-0887</p>				<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>98TH PLACE PLAN & PROFILE</p> <p>SANITARY SEWER & WATERMAIN</p>				<p>PROJECT: 48012</p> <p>SHEET: 41 OF 51</p>			



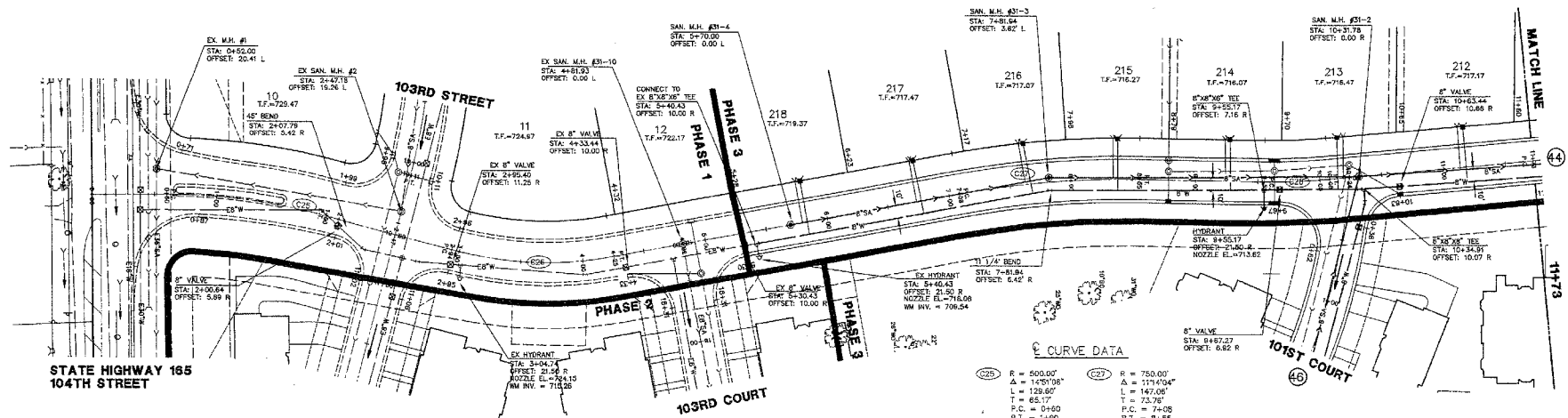
CURVE DATA

C22	R = 300.00' Δ = 57°00'00" L = 28.72' T = 13.37' P.C. = 12+21 P.T. = 12+48	C24	R = 600.00' Δ = 25°22'27" L = 354.29' T = 180.10' P.C. = 15+31 P.T. = 15+85
C23	R = 350.00' Δ = 28°47'22" L = 171.45' T = 87.90' P.C. = 13+53 P.T. = 15+24		

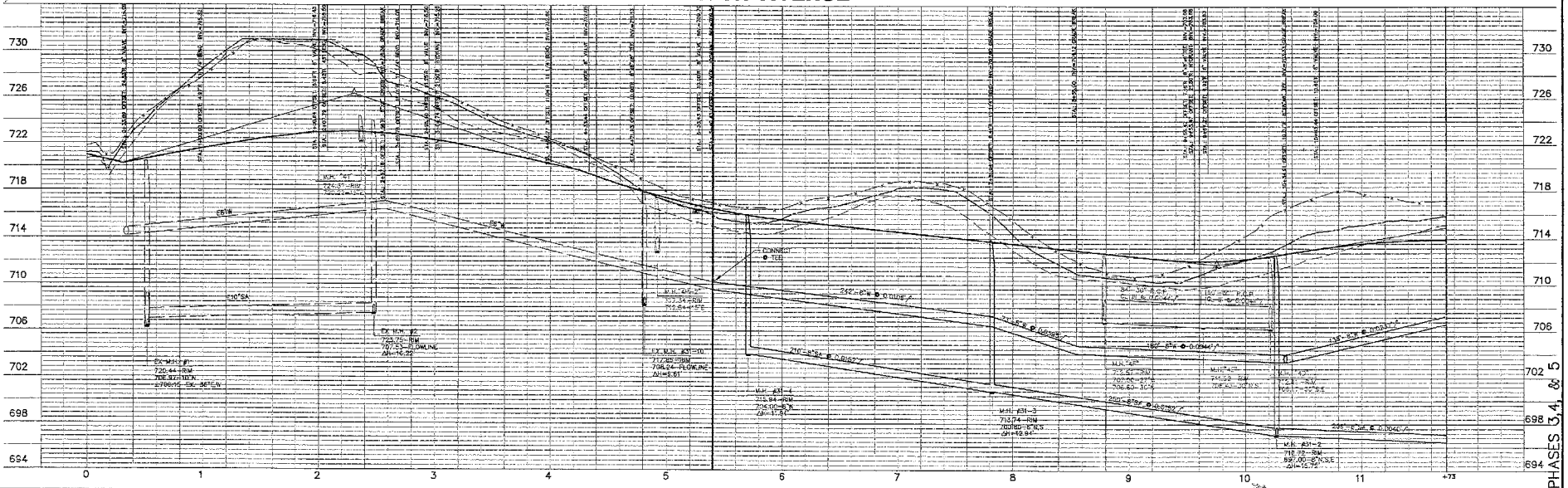
98TH PLACE



<p>SCALE IN FEET</p> <p>1" = 40'</p>	<p>DATE: 11-11-09</p> <p>BY: [Signature]</p> <p>PER VILLAGE COMMENTS:</p>	<p>APPROVED BY: [Signature]</p> <p>DATE: 11-26-09</p>	<p>GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-434-3800 FAX: 847-434-0887 E-MAIL: [Email] WWW.GREENGARDINC.COM ILL. REGISTRATION NO. 191-000993</p>	<p>SCALE: HOR: 1"=40' V: 1"=4'</p> <p>PROJECT NO: 45012</p> <p>SHEET: 42 OF 51</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 98TH PLACE PLAN & PROFILE SANITARY SEWER & WATER MAIN</p>
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47TH AVENUE



SCALE IN FEET
0 40 80 120 160

SOLE PROPERTY OF GREENGLASS, INC. AND NO REPRODUCTION OR USE IN WHOLE OR PART IS ALLOWED WITHOUT PERMISSION OF GREENGLASS, INC.

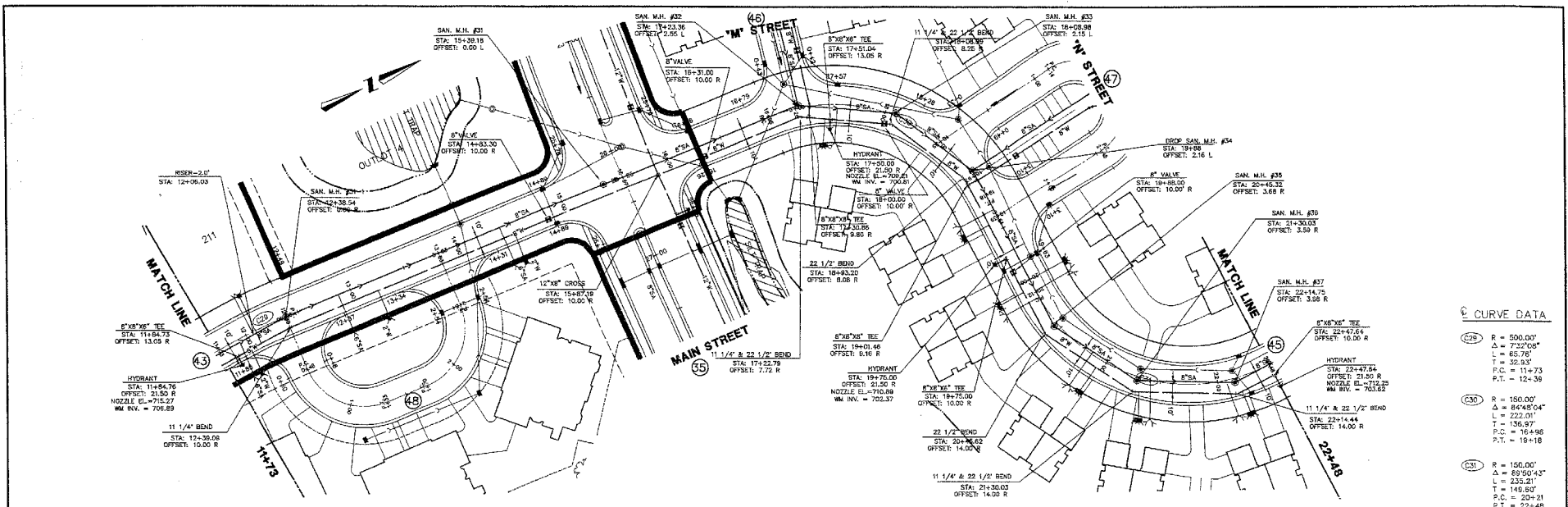
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 8-28-09
APPROVED BY: [Signature]
DATE: 8-28-09

PER VILLAGE COMMENTS: [Blank]
REVISIONS: [Blank]

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 8-28-09
APPROVED BY: [Signature]
DATE: 8-28-09

GREENGLASS, INC.
8712/11444/18 • SURVEYING • CIVIL ENGINEERING
111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3023
Phone: 847-634-3883 FAX: 847-634-6867
E-MAIL: INFO@GREENGLASS.COM
REGISTRATION NO. 188-000959

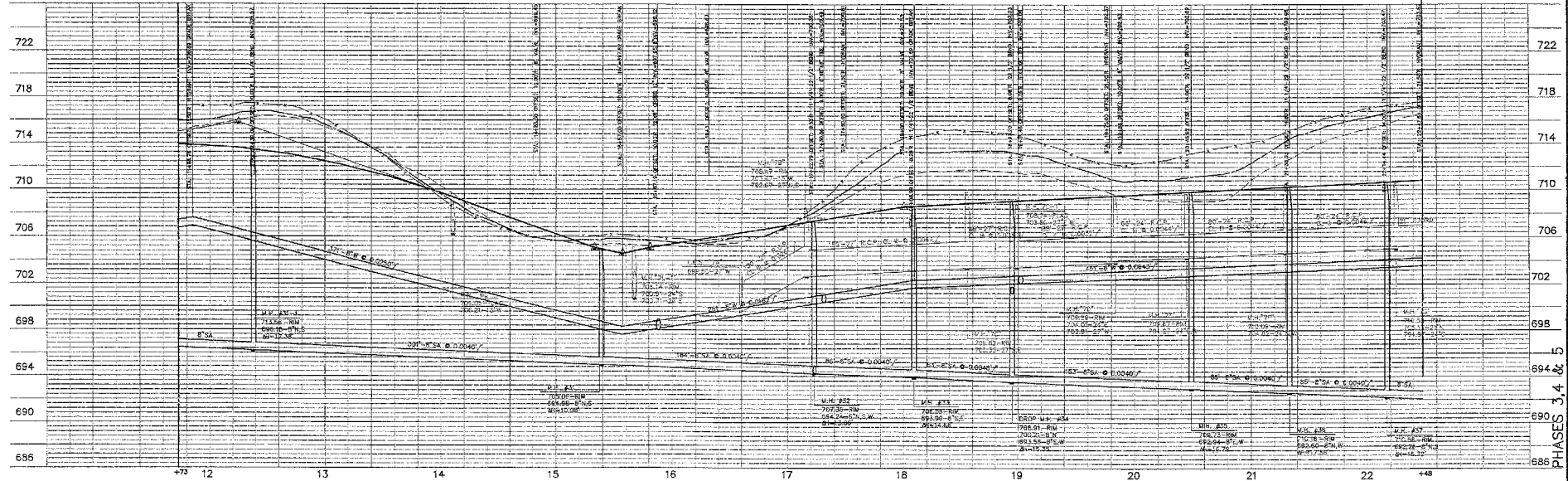
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
47TH AVENUE PLAN & PROFILE
SANITARY SEWER & WATER MAIN
DRAWING NO. 45012
SHEET 43 OF 51



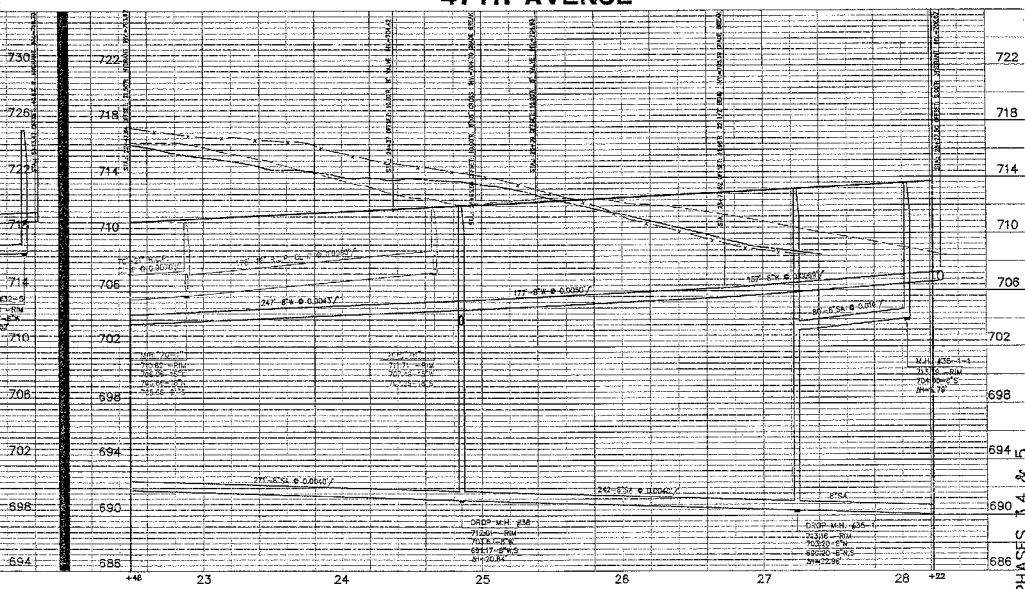
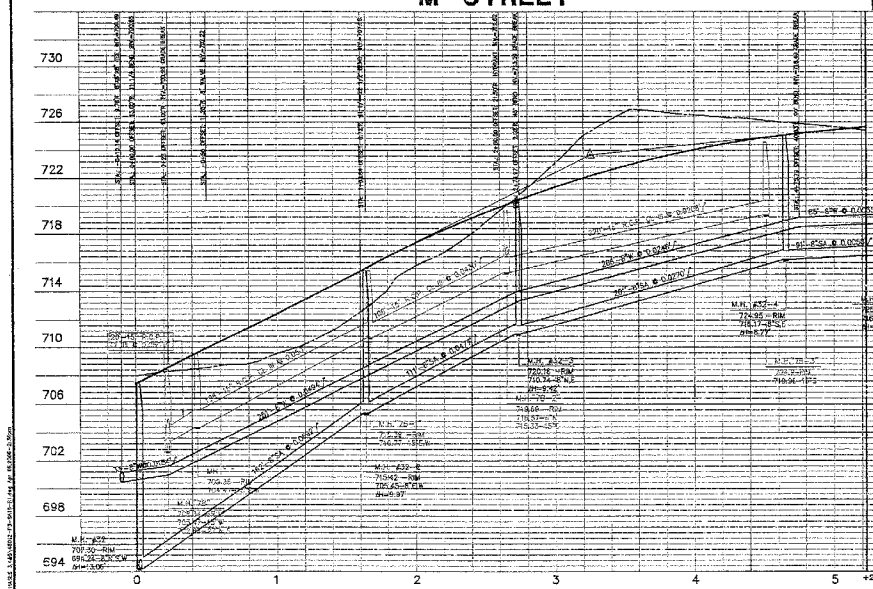
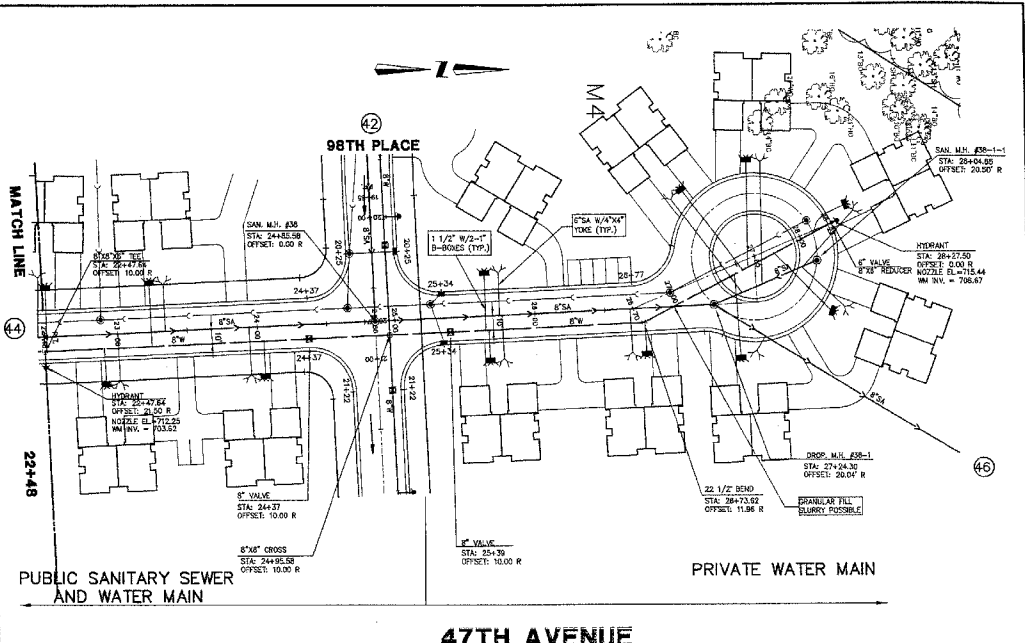
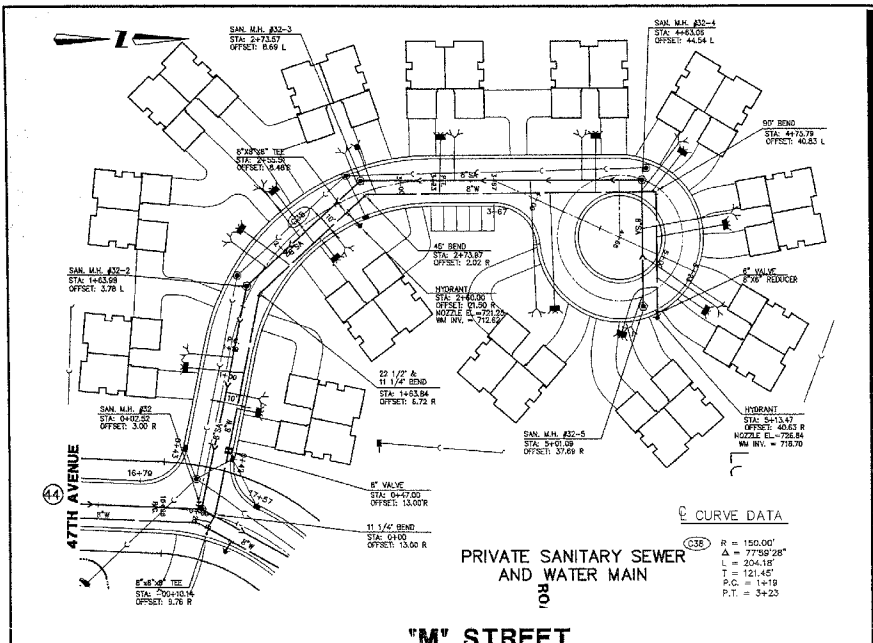
CURVE DATA

(C28)	R = 500.00'
	Δ = 73°2'08"
	L = 65.76'
	T = 32.93'
	P.C. = 11+73
	P.T. = 12+39
(C30)	R = 150.00'
	Δ = 84°48'04"
	L = 222.01'
	T = 136.97'
	P.C. = 16+48
	P.T. = 18+18
(C31)	R = 150.00'
	Δ = 89°00'43"
	L = 235.21'
	T = 148.50'
	P.C. = 20+21
	P.T. = 22+48

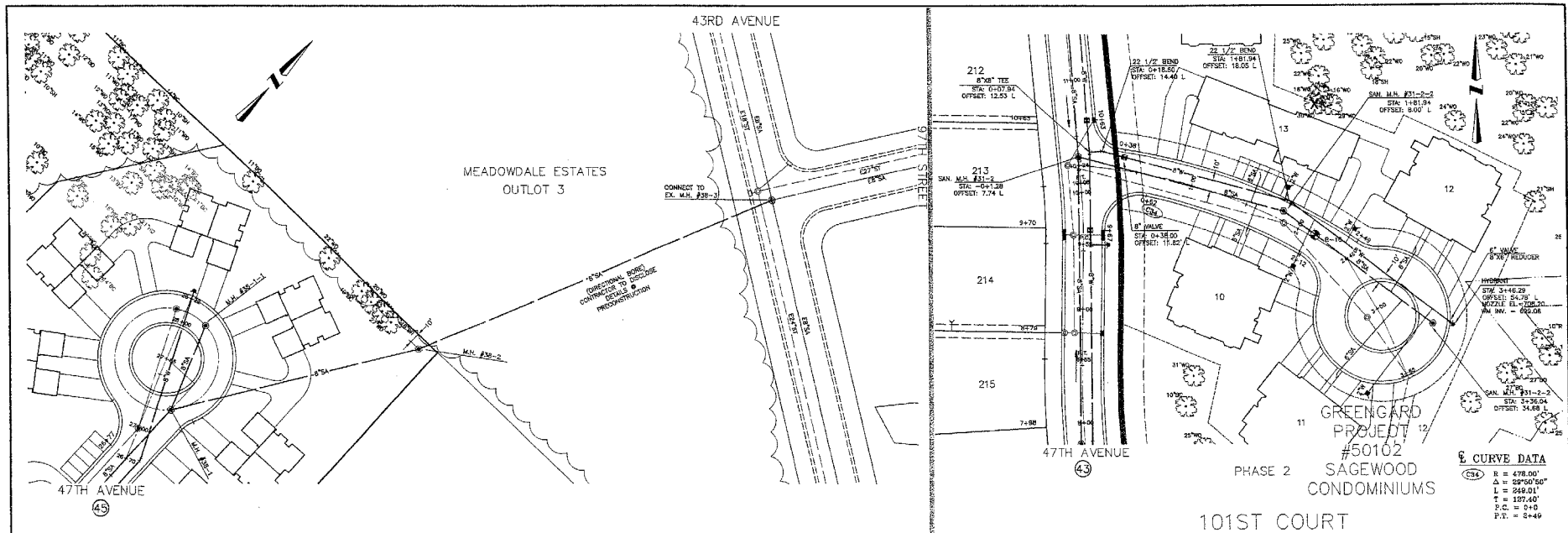
47TH AVENUE



<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>	<p>DATE: 2-4-08</p> <p>BY: [Signature]</p> <p>FOR VILLAGE COMMENTS</p>	<p>PROJECT NO. 48012</p> <p>SHEET 44 OF 51</p>	<p>GRENGARD, INC.</p> <p>ENGINEERS & SURVEYORS & PLUMBERS</p> <p>111 Berkeley Blvd, Suite 310, Lincolnshire, Illinois 60069-3623</p> <p>PHONE: 848-434-3887 FAX: 848-134-1987</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI</p> <p>47TH AVENUE PLAN & PROFILE</p> <p>SANITARY SEWER & WATER MAIN</p>
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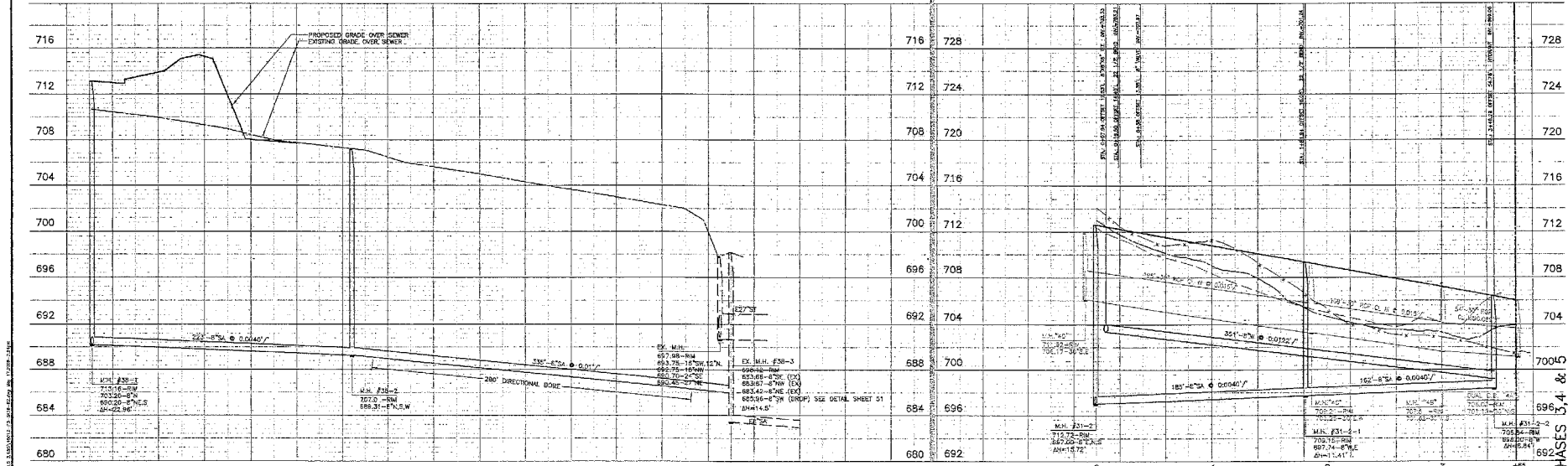


<p>SCALE IN FEET</p> <p>0 40 80 120 160</p>	<p>DATE: 8-26-05</p> <p>BY: S-E-DC</p> <p>FOR VILLAGE COMMENTS</p>	<p>DESIGNED BY: S-E-DC</p> <p>CHECKED BY: S-E-DC</p> <p>DATE: 8-26-05</p>	<p>PROJECT NO: 48012</p> <p>SHEET: 45 OF 51</p>	<p>GREENGARD, INC. Engineers • Surveyors • Planners 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623 PHONE: 847-634-3463 FAX: 847-634-0887 E-MAIL: INFO@GREENGARD.COM WWW.GREENGARD.COM</p>	<p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 47TH AVE./"M" STREET PLAN & PROFILE SANITARY SEWER & WATER MAIN</p>
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CURVE DATA

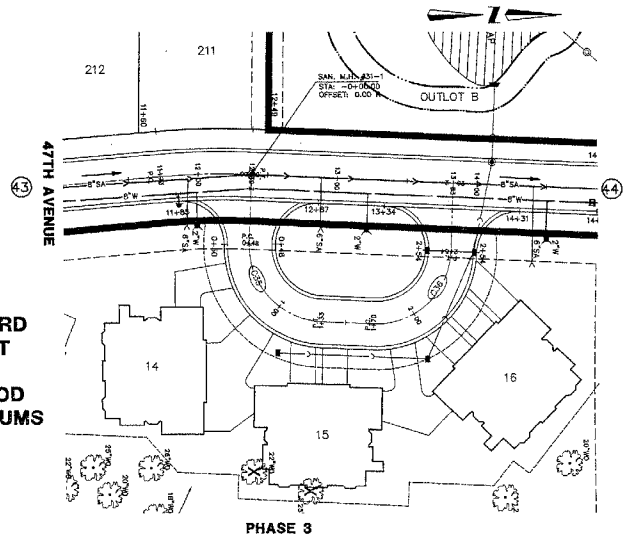
R =	478.00'
Δ =	20°50'50"
L =	249.01'
T =	129.40'
P.C. =	0+33
P.T. =	0+49



PHASES 1, 2, 3 & 4

<p>SCALE IN FEET</p> <p>0 40 80 120 160</p> <p>SOLE PROPRIETOR OF CHANGES AND NO REPRODUCTION OF USE IN WHOLE OR PART WITHOUT WRITTEN PERMISSION OF GREENARD, INC.</p>	<p>DATE: 5-17-06 PER VILLAGE COMMENTS</p> <p>REV: 3-22-05 PER VILLAGE COMMENTS</p> <p>REV: 2-6-06 PER VILLAGE COMMENTS</p> <p>DATE: _____</p>	<p>PROJECT NO: 46012</p> <p>SUB/MAT: S-2E-05</p> <p>DESIGNER: [Signature]</p> <p>DATE: 5-17-06</p> <p>APPROVED BY: [Signature]</p> <p>DATE: 5-17-06</p>	<p>GREENARD, INC. Engineers • Surveyors • Planners</p> <p>111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3223</p> <p>PHONE: 847-624-9887 FAX: 847-624-9957</p> <p>E-MAIL: INFO@GREENARD.COM WWW.GREENARD.COM</p>	<p>SHEET: 46012</p> <p>DATE: 4/8/06</p> <p>SCALE: 1"=40'</p> <p>VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI 101ST CT. / OUTFALL PLAN & PROFILE SANITARY SEWER & WATER MAIN</p>
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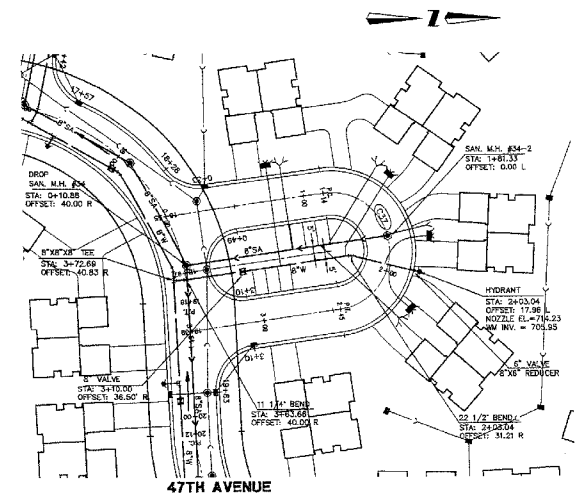
**GREENGARD
PROJECT
#50102
SAGEWOOD
CONDOMINIUMS**



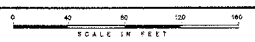
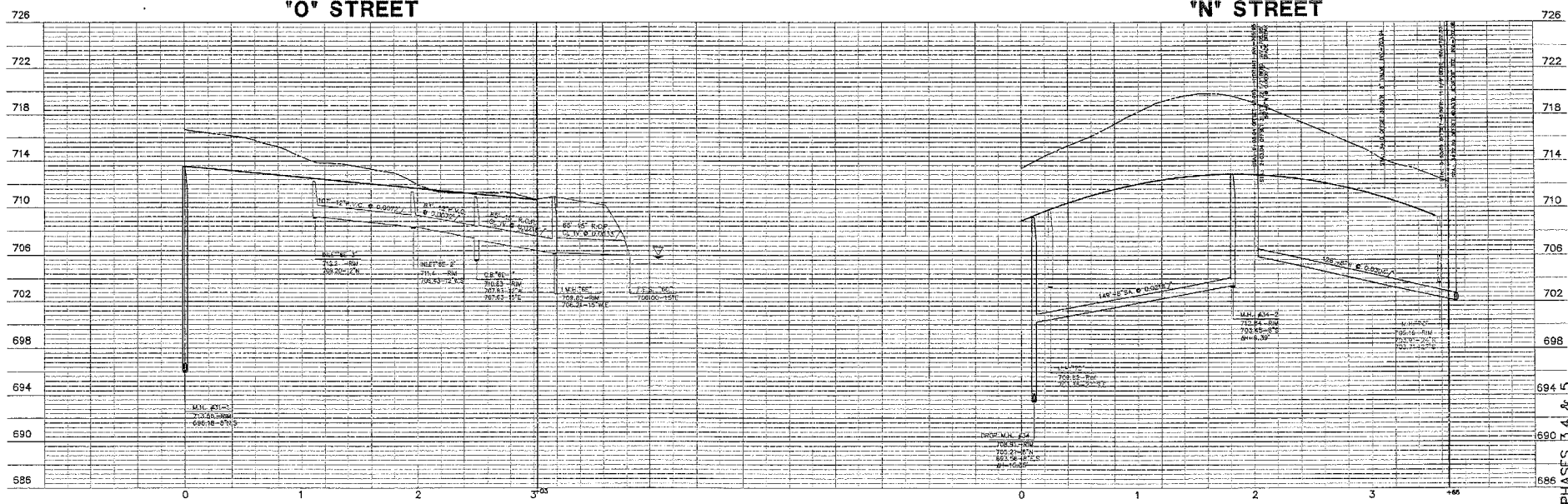
**PHASE 3
"O" STREET**

④ CURVE DATA

- ④35 R = 53.50'
Δ = 90°00'00"
L = 84.04'
T = 53.50'
P.C. = 2+48
P.T. = 1+33
- ④36 R = 53.50'
Δ = 90°00'00"
L = 84.04'
T = 53.50'
P.C. = 1+70
P.T. = 2+54
- ④37 R = 45.00'
Δ = 180°00'00"
L = 141.37'
P.C. = 1+14
P.T. = 2+45



**47TH AVENUE
④4 PRIVATE SANITARY SEWER
AND WATER MAIN**



SEE PROPERTY OF GREENGARD, INC. AND ITS REPRODUCTION OR USE IN WHOLE OR IN PART WITHOUT PERMISSION OF GREENGARD, INC.

REV: 2-15-05 FOR VILLAGE COMMENTS
DRAWN BY: [blank] DATE: [blank]

DESIGNED BY: DRP/ART DATE: 8-28-03
CHECKED BY: [blank] DATE: 8-21-05
APPROVED BY: DRP DATE: 8-28-03



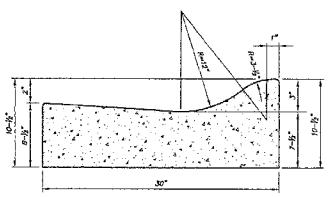
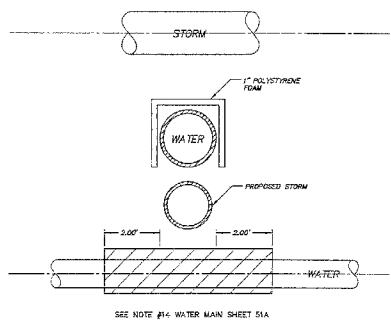
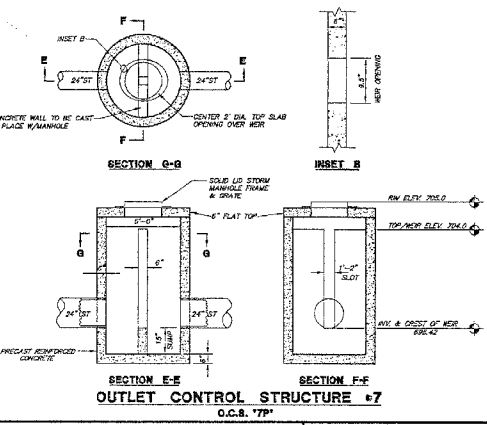
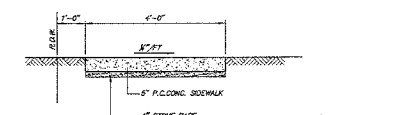
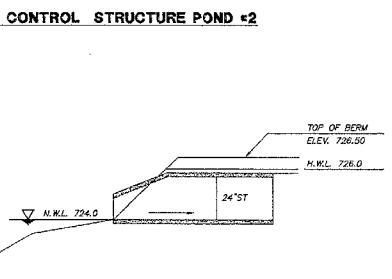
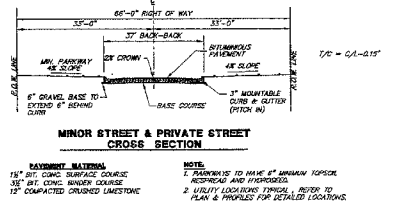
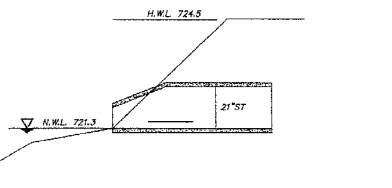
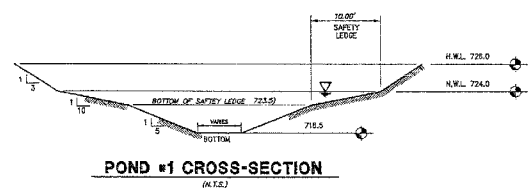
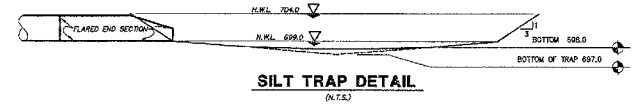
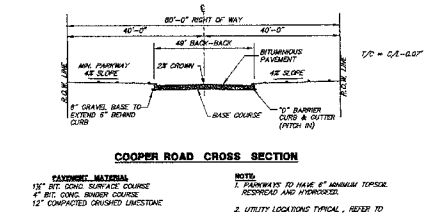
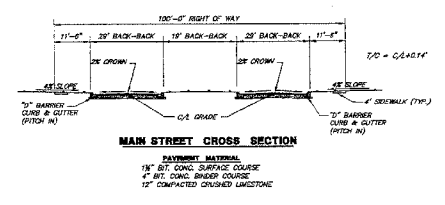
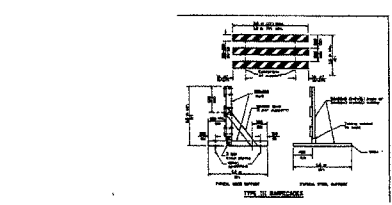
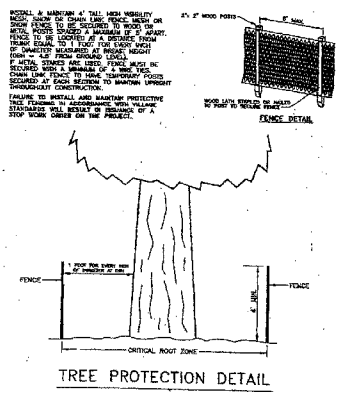
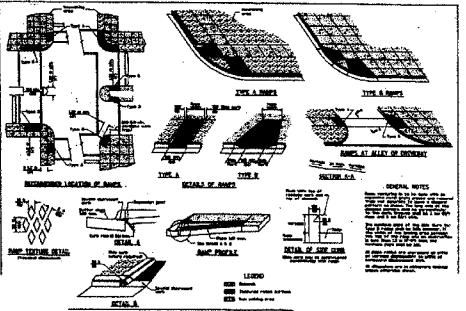
GREENGARD, INC.
Engineers • Surveyors • Planners
111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3623
PHONE: 847-634-3883 FAX: 847-634-0887
E-MAIL: INFO@GREENGARD.COM
ILL. REGISTRATION NO. 184-000995

SCALE: HORIZ: 1"=40'
VERT: 1"=4'
SHEET NO: 45012
SHEET: 47 OF 51

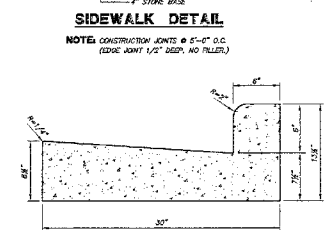
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
**"O" PRIVATE/"N" PRIVATE PLAN & PROFILE
SANITARY SEWER & WATER MAIN**

DATE PLOTTED: 08/28/03 10:58:23 AM BY: [blank]

PHASES 3, 4 & 5



- NOTES:**
- CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 601 OF THE 'STATE SPECIFICATIONS'.
 - CURB & GUTTER TO HAVE A BROWN FINISH AND ALL EXPOSED CORNERS TO BE EDGED.
 - CURB & GUTTER TO HAVE EXPANSION JOINTS EVERY 100 FT., CONSISTING OF 2-#4x24" LONG DOWEL BARS CARRIED AT ONE END WITH 3" SLEEVES.
 - CURB & GUTTER TO HAVE CONTRACTION JOINTS EVERY 10 FT.
 - CONTRACTION JOINTS TO BE SAVED WITHIN 24 HOURS OF CONCRETE PLACEMENT (MIN. 2" DEEP).
 - A MINIMUM 6" GRAVEL BASE EXTENDED 6" BEHIND BACK OF CURB SHALL BE REQUIRED.
 - ALL CURB RETURN RISE TO BE 25' UNLESS OTHERWISE NOTED (MEASURED TO B.G.C.)



- NOTES:**
- CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 601 OF THE 'STATE SPECIFICATIONS'.
 - CURB & GUTTER TO HAVE A BROWN FINISH, AND ALL EXPOSED CORNERS TO BE EDGED.
 - CURB & GUTTER TO HAVE EXPANSION JOINTS EVERY 100 FT., CONSISTING OF 2-#4x24" LONG DOWEL BARS CARRIED AT ONE END WITH 3" SLEEVES.
 - CURB & GUTTER TO HAVE CONTRACTION JOINTS EVERY 10 FT.
 - CONTRACTION JOINTS TO BE SAVED WITHIN 24 HOURS OF CONCRETE PLACEMENT (MIN. 2" DEEP).
 - A MINIMUM 6" GRAVEL BASE EXTENDED 6" BEHIND BACK OF CURB SHALL BE REQUIRED.
 - ALL CURB RETURN RISE TO BE 25' UNLESS OTHERWISE NOTED (MEASURED TO B.G.C.)

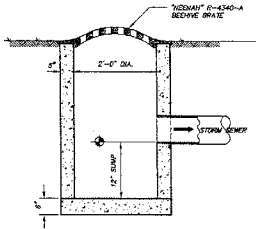
SCALE IN FEET

REV	DATE	DESCRIPTION
1	2-25-06	PER VILLAGE COMMENTS
2	2-28-06	PER VILLAGE COMMENTS
3	3-2-06	PER VILLAGE COMMENTS

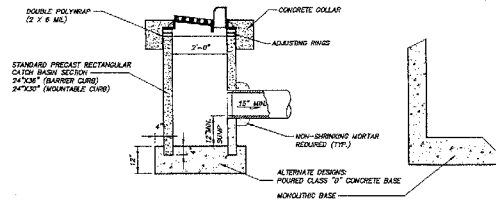
DESIGNED BY	DATE	CHECKED BY	DATE
DRAWN BY	DATE	IN CHARGE	DATE
PROJECT NO.	DATE	APPROVED BY	DATE

GREENGARD, INC.
 Engineers • Surveyors • Planners
 111 Barclay Blvd., Suite 310, Lincolnshire, Illinois 60069-3823
 PHONE: 847-654-3843 FAX: 847-654-0887
 E-MAIL: JIM@GREENGARD.COM WWW.GREENGARD.COM
 ILL. REGISTRATION NO. 198-000995

SCALE	NONE	PROJECT NO.	VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
DATE	4/8/12	SHEET NO.	DETAILS
REV	49	TOTAL SHEETS	STORM SEWER & STREET
	51		

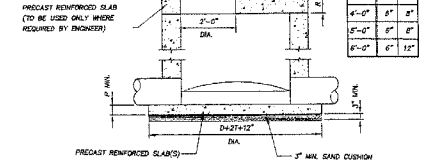


2' DIA. YARD CATCH BASIN DETAIL

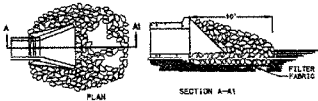


CATCH BASIN DETAIL

NOTES: CONCRETE COLLAR AND POLYWRAP TO BE INSTALLED AS PART OF CURB & GUTTER CONSTRUCTION.
BOY DUT CONCRETE COLLAR DURING PAVEMENT CONSTRUCTION.
PLACE 1/2" EXPANSION JOINT AROUND COLLAR PLACED ADJACENT TO CONCRETE PAVEMENT OR CONCRETE BASE.

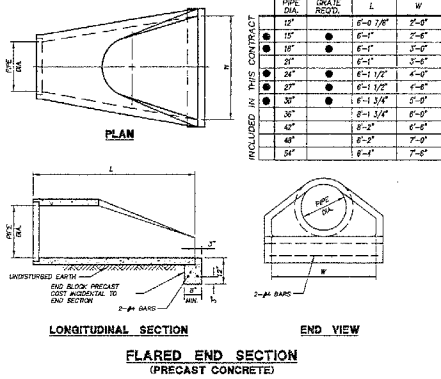


DETAILS OF ALTERNATE TOP & BOTTOM SLAB

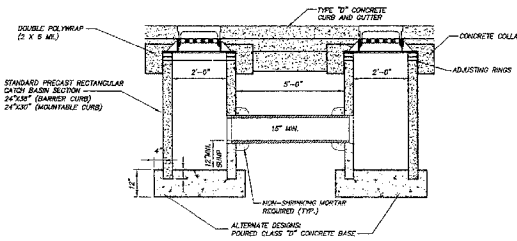


- NOTES:
- LOCATE RIPRAP BELOW PIPE OUTLET AND WEIR CHANNEL TO THE REMAINING RIPRAP. PROVIDE FOR CATCH APPROX. DIMENSIONS TO BE SET TO EXIST GRADE AND SLOPES.
 - PLACE FILTER FABRIC ON BOTTOM AND SIDES OF PREPARED FOUNDATION. ALL JOINTS TO OVERLAP A MINIMUM OF 1'-0".
 - EXERCISE CARE IN RIPRAP PLACEMENT TO AVOID DAMAGE TO FILTER FABRIC.
 - RIPRAP TO BE HARD, ANGULAR, WELL GRADED ERUSION RESISTANT STONE, 3" - 4 1/2" IN SIZE.
 - PLACE RIPRAP ON SLOPE CHASE - TOP OF RIPRAP TO BE LEVEL WITH PROPOSED OUTLET LINE CHANNEL TO TOP OF BANK FOR A DISTANCE OF 10' FROM STRUCTURE. NO CHANNEL OR RESTRICTION IN CHANNEL CROSS-SECTION SHOULD EXIST.
 - IMMEDIATELY AFTER CONSTRUCTION STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

RIPRAP PROTECTION AT OUTLETS

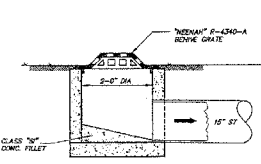


- NOTES:
- CONSTRUCTION OF FLARED END SECTION SHALL CONFORM TO STANDARD SPECIFICATION FOR SEWER & WATER CONSTRUCTION IN ILLINOIS.
 - END SECTION SHALL CONFORM TO AVAILABLE REQUIREMENTS OF ASTM SPECIFICATION C 79, CLASS II REINFORCED CONCRETE PIPE.
 - GRATES SHALL CONFORM TO STANDARD SPECIFICATION FOR SEWER & WATER CONSTRUCTION IN ILLINOIS.

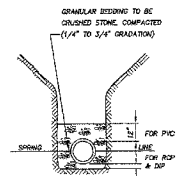


DUAL CATCH BASIN DETAIL

NOTES: CONCRETE COLLAR AND POLYWRAP TO BE INSTALLED AS PART OF CURB & GUTTER CONSTRUCTION.
BOY DUT CONCRETE COLLAR DURING PAVEMENT CONSTRUCTION.
PLACE 1/2" EXPANSION JOINT AROUND COLLAR PLACED ADJACENT TO CONCRETE PAVEMENT OR CONCRETE BASE.



2' DIA. YARD INLET DETAIL



PIPE BEDDING DETAIL

NOTE: ALL ROW/STREET STRUCTURES WILL REQUIRE ADJ. RINGS EQUAL TO 10' FOR SUB GRADE.

GENERAL NOTES:

- SEE PLAN & PROFILE SHEETS FOR LOCATION, DIMENSIONS & INVERTS OF SEWER MAIN. SEE LAYOUT SHEET FOR LOCATION & DIAMETER OF WATERMAIN.
- PRECAST SECTIONS SHALL CONFORM TO SPECIFICATIONS FOR MANHOLES - ASTM DESIGNATION C-478.
- SAWTOOTH MANHOLE FRAME AND JOINTS TO BE SET ON A PROPOSED BELTLAGER PLASTIC GASKET, "MAN-JOINT" OR APPROVED EQUAL.
- PRECAST MANHOLE JOINTS SHALL BE CONSTRUCTED WITH BITUMINOUS MASTIC.
- OFFSET CONES SHALL BE USED WHERE MANHOLE OR CATCH BASIN IS 6'-0" OR GREATER IN DEPTH.
- FRAMES, COVERS & MANHOLE STEPS TO BE CAST FROM PRECAST PORTLAND CEMENT, OR APPROVED EQUAL (PRICE TO BE INCLUDED IN UNIT COST OF STRUCTURE).

CASTING LIST

- STORM STRUCTURES:
 - MANHOLES:
 - NEWMAN #R-1500 TYPE B
 - W/ "STORM" CAST INTO LID.
 - YARD INLETS & YARD CATCH BASINS:
 - CATCH BASIN & INLET MANHOLES (CONCRETE)
 - NEWMAN # R-300/ (MANHOLE)
 - NEWMAN # R-300/ (YARD INLET)
 - YARD INLET MANHOLES:
 - NEWMAN # R-4300-A (BEDDING)
- SAWTOOTH MANHOLE - NEWMAN # R-1500 TYPE B W/ "SAWTOOTH" CAST INTO LID. LOCKING, NON-POOKING.

ITEMS INCLUDED IN THIS CONTRACT

VALUE & BOX	QTY	DESCRIPTION
2'-0" YARD INLET	1	2'-0" YARD INLET
4' SANITARY REEP	1	4' SANITARY REEP
6' SANITARY REEP	1	6' SANITARY REEP
4'-0" CATCH BASIN TYPE 'X'	1	4'-0" CATCH BASIN TYPE 'X'
5'-0" CATCH BASIN TYPE 'X'	1	5'-0" CATCH BASIN TYPE 'X'
4'-0" MANHOLE SANITARY TYPE 'X'	1	4'-0" MANHOLE SANITARY TYPE 'X'
5'-0" MANHOLE SANITARY TYPE 'X'	1	5'-0" MANHOLE SANITARY TYPE 'X'
6'-0" MANHOLE SANITARY TYPE 'X'	1	6'-0" MANHOLE SANITARY TYPE 'X'
4'-0" DEEP MANHOLE TYPE 'D'	1	4'-0" DEEP MANHOLE TYPE 'D'
5'-0" DEEP MANHOLE TYPE 'D'	1	5'-0" DEEP MANHOLE TYPE 'D'
4'-0" VALVE & WALK	1	4'-0" VALVE & WALK
5'-0" VALVE & WALK	1	5'-0" VALVE & WALK
6'-0" VALVE & WALK	1	6'-0" VALVE & WALK
DUAL CATCH BASIN	1	DUAL CATCH BASIN

MATERIALS FOR WALLS	D		C		T
	1	2	1	2	
PRECAST REINFORCED CONCRETE INVERTS	8"	10"	12"	14"	16"
PRECAST REINFORCED CONCRETE RISERS	8"	10"	12"	14"	16"
PRECAST REINFORCED CONCRETE RISERS	8"	10"	12"	14"	16"
PRECAST REINFORCED CONCRETE RISERS	8"	10"	12"	14"	16"

SCALE IN FEET

SOLE PROPERTY OF GREENGARD, INC. AND NO REPRODUCTION OR USE IN WHOLE OR PART WITHOUT WRITTEN PERMISSION OF GREENGARD, INC.

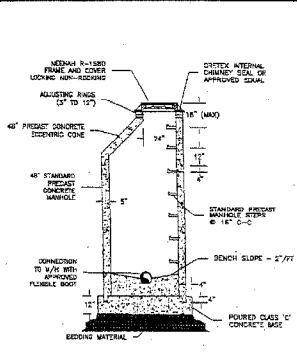
BY: 3-4-06 REF: VILLAGE COMMENTS
DATE: 3-4-06

ISSUED BY: 3-4-06
DATE: 3-4-06
PROJECT: 06-21-05
DRAWN BY: 3-4-06
DATE: 3-4-06

GREENGARD, INC.
Engineers & Surveyors • Planners
231 Old Hat Day Road, Lincolnshire, Illinois 60069-2906
PHONE: 630.344.1881 FAX: 630.344.0887
WWW.GREENGARDINC.COM

DATE: NONE
DRAWING NO: 46012
SHEET: 50 OF 51
VILLAGE GREEN HEIGHTS - PLEASANT PRAIRIE, WI
DETAILS

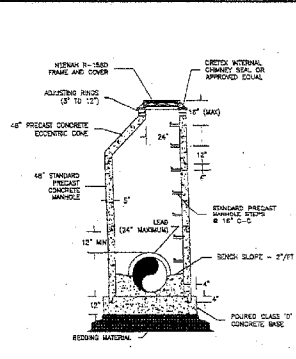
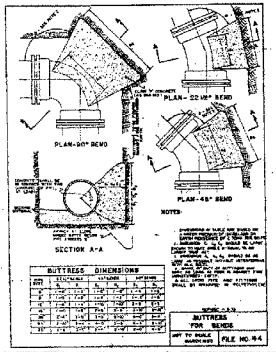
PHASES 3, 4 & 5



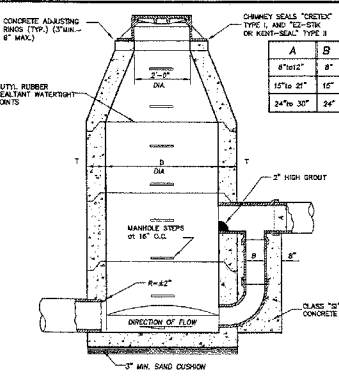
SANITARY MANHOLE

NOTES:

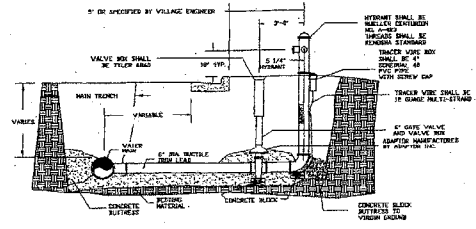
1. MANHOLES TO HAVE PRECAST "RUBBER BOOTS" AT ALL PIPE CONNECTIONS.
2. MANHOLE BOTTOM SHALL BE PRECAST WITH THE FIRST RIGID SECTION INCLUDING POURED INVERT & BENCH.



STORM MANHOLE

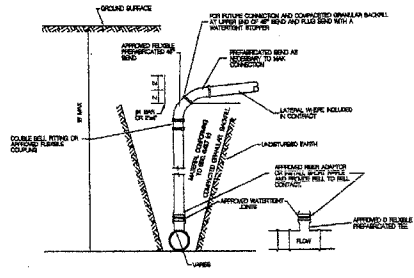
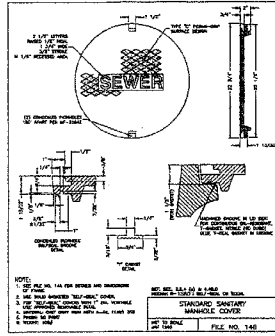


DROP MANHOLE - TYPE 'D'

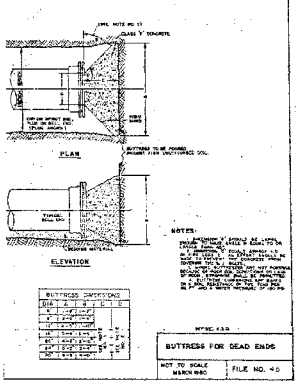


FIRE HYDRANT

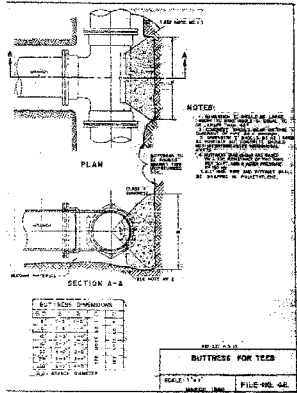
NOTES:
 RESTRAIN JOINTS, TEE TO VALVE AND VALVE TO HYDRANT WITH MEGALUG & STAINLESS STEEL BOLTS.
 ALL BOLTS SHALL BE STAINLESS STEEL.



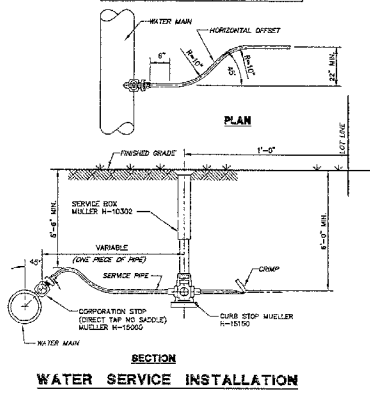
RISER DETAIL (AWWA C-900)
 FOR RISERS OF GREATER THAN 8 FEET OF HEIGHT USE TYPE 'B' RISER FILE NO. 108 OF THE STANDARD SPECIFICATIONS FOR RISER & WATER CONSTRUCTION IS NECESSARY.



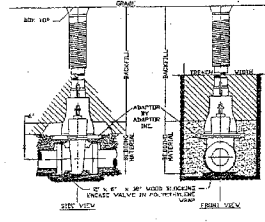
BUTTRESS FOR DEAD ENDS



BUTTRESS FOR TEES



SECTION WATER SERVICE INSTALLATION



VALVE BOX

