ERP87-0116 - LAKE VALLEY IN WOODBOROUGH SUBDIVISION

MICROGRAPHICS

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CONSTRUCTION PLAN OF

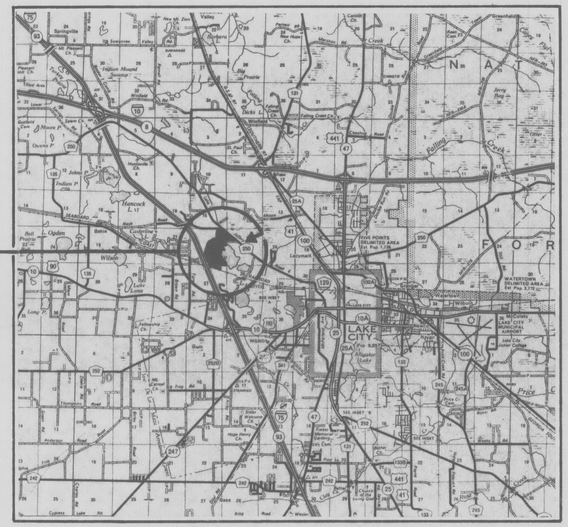
"WOODBOROUGH"

IN

SECTIONS $^{22}_{23}_{27}$, TOWNSHIP 3 SOUTH, RANGE 16 EAST

COLUMBIA COUNTY, FLORIDA

Project Location



LOCATION MAP

Developer:

MR. BILL ROWAN
2124 Trimble Road
Tallahassee, Florida 32303

(904) 385-6066

Surveyor- Engineer:

DONALD F. LEE & ASSOCIATES, INC.
950 S. Ridgewood Drive
Lake City, Florida 32055
E.S. COLSON, P.E.
(904) 755-6166

AS-BUILTS
FRP Permit #
4-87-00116

Permitted Plans (Sheet 2 of 2)
also
"As Built"
as per Colson (14 Dec 88

N

SWM-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

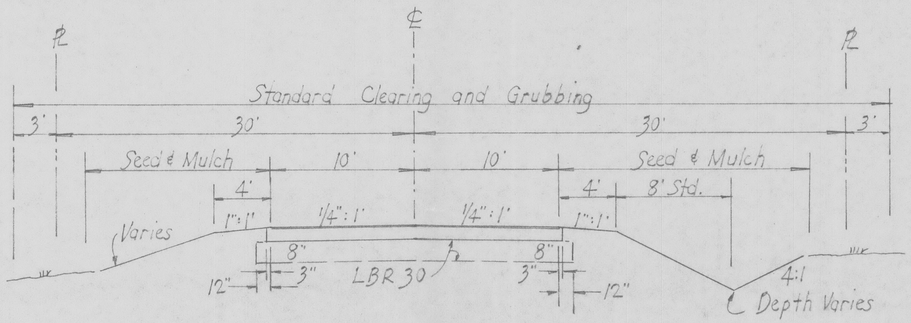
ORIGINAL PLANS - PAGE 1 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

PRELIMINARY PLAN APPROVED: AUG. 25, 1986

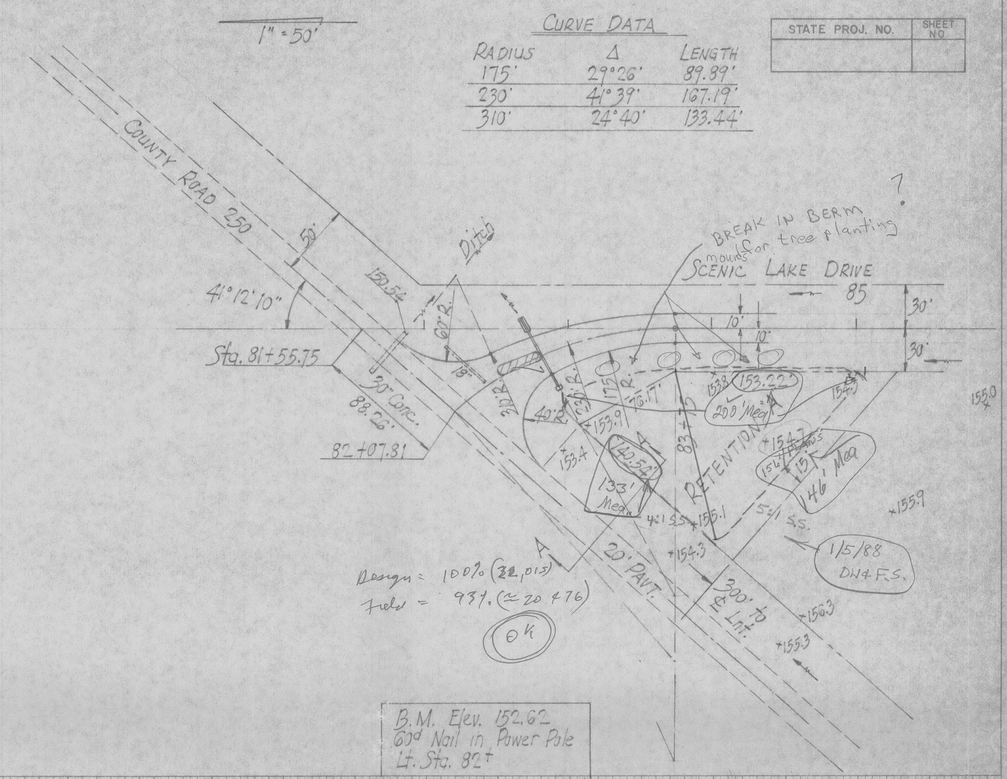
Donald F. Lee & Associates, Inc. *Surveyors & Engineers* *950 S. Ridgewood Drive, Lake City, FL. 32055* *Phone: (904) 755-6166*	Date: 5/6/87 Drafting: Computations: Checked:
CONSTRUCTION PLAN OF "WOODBOROUGH"	Scale: — Field Book: — Work Order: 86-386 File: B - 1 - 29

Set 2 of 2 (Field)



TYPICAL SECTION
LIMEROCK BASE (6" THICK) WITH
TYPE S III ASPHALTIC CONCRETE (1¼" THICK)

See X-Sections for slopes and ditches.



GENERAL NOTES:

All construction and materials shall conform to the F.D.O.T. Standard Specifications for Road and Bridge Construction. Certification by an approved testing laboratory will be required. (Contractor Responsibility.)

Pipe shall be concrete for structure at Sta. 205+25. All other pipe may be concrete or bituminous coated corrugated steel.

Retention areas shall be excavated prior to roadway grading.

Adequate measures shall be taken to assure that State Water Quality Standards are not violated.

Sod or seed and mulch all disturbed areas including outfall and retention slopes with quick growing and permanent seed.

Center and edge line striping shall be in accordance with the MUTCD.

Horizontal and Vertical Controls will be provided. All other construction layout is Contractor responsibility.

Sidedrain pipe shall be 15"/24' long with mitered end sections. (4' Required)

CURVE DATA

RADIUS	Δ	LENGTH
175'	29°26'	89.89'
230'	41°39'	167.19'
310'	24°40'	133.44'

STATE PROJ. NO.	SHEET NO.

SUMMARY OF DRAINAGE STRUCTURES

24" Concrete Pipe	96 Lin. Ft.
18" Concrete or Steel Pipe	276 Lin. Ft.
Inlets (Type 'C')	2 Each
Mitered Ends for	
Double 24" Concrete	2
Single 18"	10

A.R. COGSWELL
JACKSONVILLE, FLORIDA

CONSTRUCTION PLAN
WOODBOROUGH
Sheet 2 of 9

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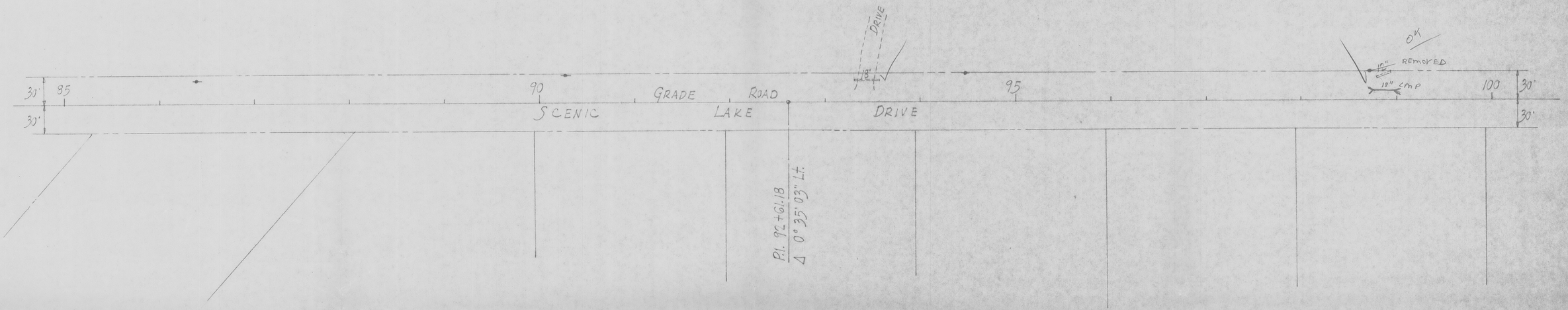
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 2 OF 9 - 5/8/87

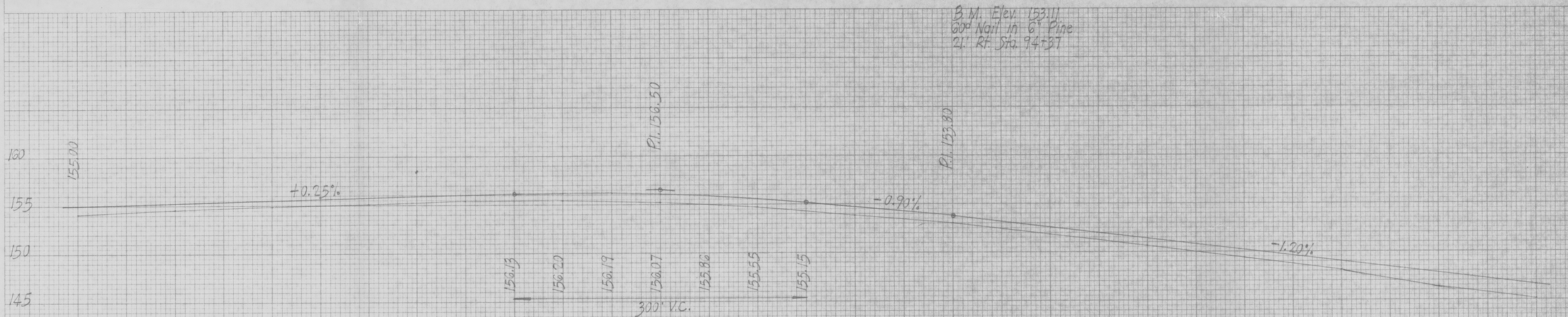
WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

STATE PROJ. NO.	SHEET NO.

1" = 50'



B.M. Elev. 153.11
60d Nail in 6" Pine
21' Rt. Sta. 94+97



SWM4-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 3 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

CONSTRUCTION PLAN
WOODBOROUGH
Sheet 3 of 9

A.E. COSWELL
JACKSONVILLE, FLORIDA

STATE PROJ. NO.	SHEET NO.

1" = 50'

Const. Spillway @ El. 138.0
6' Wide (6" Deep) Paved

P.I. 209+03.15
Δ 53°38'30"
T 116.29'
R 230.00'
Super 1/4"/Ft.

P.I. 205+78.74
Δ 72°32'53"
T 168.77'
R 230.00'
Super 1/4"/Ft.

RETENTION "B"
3.0'± DEEP

1/5/88 DW & F.S.

Ditch Block

Meas Bottom
Top

Design: 125 × 250 × 2.5 = 78125
Field: 116 × 226 × 3.0 = 78672

(5) Erosion to be corrected (Photo)

SCENIC LAKE DRIVE — SEMI-GRADE

P.I. 104+69.70 Bk.
199+73.97 Ah.
Δ 0°04'02"

P.I. 101+46.93
Δ 0°47'51"

LAKE JEFFREY

CYPRESS Flood Flow

24" Pipe (F.L. 134.5) (To be Removed)

Semi Grade

Normal Flow

CYPRESS POND

RETENTION "B" (See above)

Const. Paved Spillway & Rubble

Ditch Block

201+30 Fut. St.

203+25

204+09.97

207+21.16

207+36.85

210+02.19

208+40 FUTURE STREET

25' R

90°

90°23'

Const. Spillway @ El. 138.0
2' Wide (6" Deep) Paved

12-6'± DEEP

Bond C & O.K.

B.M. El. 144.70
60d Nail in 10" Pine
13' Lt. Sta. 102+19

BERM 4'
El. 138.5
RETENTION
100' - 150'
250' LONG
El. 136.0 (2.5' DEEP)
PLANS.
4:1

SECTION B-B

RETENTION 24'
150' LONG
(2.5' DEEP) 136.0
4' BERM (138.5)
4:1

SECTION C-C

Clear & Grub Limits of Const'n. thru Cypress Pond

300' V.C.

400' V.C.

-1.20%
-0.50%
-0.80%
+4.00%

Normal Water
130.0 - 137.0
Record High 138.2

Sta. 203+25
Block Lt. Ditch
@ El. 139.0

Block Lt. & Rt. Ditch
@ El. 138.5

Sta. 203+00
Const. 44' of 18" Pipe
with Mitered End Sections
F.L. Lt. 137.7 Rt. 137.5
20' Lt. & 22' Rt.

Berm Rt. Side
@ El. 138.5
No Ditch Lt.

Sta. 205+85
Const. 24' of 24"
See X-Section

Sta. 206+50
Const. 46' of 18" Pipe
with Mitered End Sections
F.L. Lt. 136.8 (22')
F.L. Rt. 136.6 (24')

DITCH BLOCK
Lt.
No Ditch Rt.

2.0' Depth Ditches Lt. & Rt.

2.0' Depth Ditch Lt.

2.0' Depth Ditch Rt.

CONSTRUCTION PLAN
WOODBOROUGH
Sheet 4 of 9

A.B. COGSWELL
JACKSONVILLE, FLORIDA

SWM4-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 4 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

STATE PROJ. NO.	SHEET NO.

N
1" = 50'

℄ 20' Drainage Easement

Exist. Ditch
+142.1

SCENIC LAKE DRIVE

215

220

225

218+73.09 Bk.
218+77.24 Ah.

P.I. 221+74.49
Δ 31° 54' 13"
T 297.25'
R 1039.90'
Super 1/4"/Ft.

224+56.30

P.I. 216+30.97
Δ 87° 59' 26"
T 155.11'
R 230.00'
Super 1/4"/Ft.

214+75.86

216+40

218+00

"D"

TREE CHIMNEY

145.0 meas.

145.5 meas.

144.8 meas.

144.6 meas.

145.0 meas.

145.5 meas.

145.6

143.9

142.5

1.0'

1.0'

115/188
D.H. & F.S.

2.80' DEEP from what elev?

4:1 S.S.

RETENTION "D"

Design: 60 x 180 x 1.5 = ~~13,200~~ 16,200
Field: 70 x 148 x 2.8 = 29,008
-9%

OK

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

30'
30'

21'+40
PUT. ST.

30'
30'

Const. ℄
142.5
4:1
20' - 100'
1.5
El. 141.0
4:1

SECTION "D-D"

24'

Sta. 216+85

16'

143.5
145.5

Const. Type C Inlet

RETENTION
141.0

Exc. Outfall
"V" Bottom
4:1 Slopes
Min. depth 1.0'

141.3

Const. Mitered End Section

Const. 40' of 18" Pipe

NOTE: SLOPE PAVT. TO RIGHT

P.I. 151.30

20'±30

100' V.C.

200' V.C.

200' V.C.

P.I. (+50) 154.82

150
145
140

-1.40%
-0.733%
+0.70%
+0.60%
+2.50%
+2.80%

140.00
140.73
145.83
144.73
144.40
144.38
144.44
144.70
145.33
145.33
146.52
147.43
148.57
149.83
150.91
151.68
152.09
152.17
151.94
151.36
150.46

142.0
143.57
143.73
143.55
143.00

400' V.C.

400' V.C.

P.I. 140.00

Sta. 216+85

142.4

Lt. Ditch

P.I. 146.07

No Ditch Lt.

1.0' Depth Ditch Rt.

1.5' Depth Ditch Rt.

1.5' Depth Ditch Lt.

1.0' Depth Ditch Lt.

1.0' Depth Ditch Rt.

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WORK & FIELD COPY

ORIGINAL PLANS - PAGE 5 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

CONSTRUCTION PLAN
WOODBOROUGH
Sheet 5 of 9

A.E. COGSWELL
JACKSONVILLE, FLORIDA

STATE PROJ. NO.	SHEET NO.

LAKE JEFFREY

P.I. 227+77.86
Δ 40°00'
T 167.14'
R 393.75'
Super 1/4" / Ft.

226+10.72

225

30'

35'

PINE

SCENIC

230

LAKE

DRIVE

235

238

240

"Easements" are preserved but no swales constructed or needed. Usually on 24" Pot shows very little run out N of either culvert (Heavy rains 18-20 " Tests) the system also. this area part of future dev drawing and to be incorporated in next phase

1" = 50'

+144.6

+144.7

20' Drainage Easement (Exc. 300')

P.I. 234+78.69
Δ 74°15'
T 413.59'
R 546.37'
Super 1/4" / Ft.

+139.8

PI

233+73.15 Rt. 237+82.36 Rt.

239+32.36

P.I. 239+90.24
Δ 28°15'
T 57.88'
R 230.00'
No Super.

SINK W.L. 140.2 4/87

240+45.10

138.7

144.1

20'

10'

10'

20'

100'

100'

30'

69.28'

247+87.79

+130.2

+135.4

+140.4

233+65.10

TRAIL ROAD

SWALE DITCHES NOT INSTALLED

20' Drainage Easement (Exc. 200')

STA. 228+93

22'

26'

Const. 48' of 18" Pipe With Mitered End Sections Cmp

142.0

139.5

Exc. Outfall (200') 1.0' Depth 4:1 Slopes

200' V.C.

145.00

143.35

143.5

142.91

143.14

P.I. 144.93

149.33

149.14

143.72

149.57

144.00

200' V.C.

237+73.15 Rt. P.I. 147.67
237+82.36 Rt.

146.93

146.55

147.25

148.06

149.60

241

203' V.C.

150

145

140

-2.87%

+0.92%

-0.66%

+0.5%

+1.53%

+2.0%

-0.58%

+3.61%

150.40

149.22

403' V.C.

P.I. 142.22

228+93
18" Pipe

144.06

144.42

144.58

144.55

144.32

200' V.C.

Sta. 234+00
Const. 44' of 18" Pipe (cc'd Lt & Rt)
F.L. Lt 142.8 Rt 142.4
Exc. Outfall 300'
10' Min. Depth 4:1 Slopes

P.I. (Lt) 142.61

P.I. (Rt) 142.61

141.0

℄ Rt. Ditch

146.78

146.44

146.87

146.08

200'

147.08

147.45

V.C.

147.08

147.03

P.I. (Rt) 146.00

1.0' Depth Ditch Lt.

No Ditch Rt.

1.5' Depth Ditch Lt.

No Ditch Lt.

1.0' Depth Ditch Rt.

225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241

CONSTRUCTION PLAN
WOODBOROUGH
Sheet 6 of 9

A.R. COGSWELL
JACKSONVILLE, FLORIDA

SWM4-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 6 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

STATE PROJ. NO.	SHEET NO.

156.10
155.2
91+00

156.10
155.2
90+00

156.10
155.4
89+00

156.35
155.1
88+00

156.10
154.8
87+00

156.69
154.6
86+00

156.00
154.1
85+00

153.53
153.9
1:1
84+00
RETENTION
152.0

155.65
153.8
1:1
83+00
152.0

144.00
148.1
98+00

155.20
149.8
97+00

156.40
150.6
96+00

156.00
151.8
95+00

155.80
153.0
94+00

155.10
153.8
93+00

154.7
92+00

104+69.70 BK=
192+73.97 AH.
FOR X-SECTIONS SEE
SHEET Nº

142.19
141.7
104+00

142.09
142.9
103+00

143.7
102+00

145.49
144.4
101+00

146.00
145.1
100+00

147.80
146.3
99+00

WOODBOROUGH
Sheet 7 of 9
VERT. = 1" = 5'
HORIZ. = 1" = 10'

Application No.
Route No.
Original Platted by
" Checked by
Template by
Area by
Finals Platted by
" Checked by
Area by
" Checked by

(A.F.COGSWELL ARC-3V8) N81278

SWM4-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 7 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

STATE PROJ. NO.	SHEET NO.

146.18
145.5
218+00

147.64
147.1
213+00

149.10
149.0
212+00

149.19
149.4
211+00

148.0
148.4
210+00

144.09
146.2
209+00

147.30
148.1
208+00

149.09
149.8
207+00

150.91
150.4
222+00

148.57
146.18
221+00

146.56
145.6
220+00

145.53
144.5
219+00

144.70
143.7
218+00

144.36
143.1
217+00

RETENTION

144.73
143.9
216+00

145.47
144.4
215+00

144.05
143.4
230+00

142.14
142.3
229+00

143.15
142.2
228+00

145.15
144.0
227+00

145.19
147.9
226+00

150.45
150.7
225+00

151.94
152.8
224+00

152.09
153.1
223+00

SWM4-87-00116 - APPLICATION PLANS
WORK & FIELD COPY

ORIGINAL PLANS - PAGE 8 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

WOODBOROUGH
Sheet 8 of 9
VERT. 1" = 5'
HORIZ. 1" = 10'

Application No.
Route No.
Original Platted by
" Checked by
Template by
Area by
Finals Platted by
" Checked by
Area by
" Checked by

(A.R.COOSWELL ARC-3VR) N81276

STATE PROJ. NO.	SHEET NO.

146.44
145.9
146.2
237+00

144.46
143.9
144.5
236+00

143.04
141.9
142.2
235+00

142.14
140.59
142.2
234+00

142.04
140.59
142.7
233+00

141.54
140.09
143.7
232+00

141.53
140.03
144.1
231+00

144.01
140.4
201+74

142.54
141.1
200+74

145.04
141.6
199+74

10L+69.76 Bk
199+73.97 Ah

139.90
138.59
241+87.79

135.00
133.59
241+00

140.59
138.38
240+00

140.03
138.64
239+00

139.53
138.53
238+00

24"
24"
135.90
136.0
136.0
NORMAL
W + FLOOD
STA. 205+25
CONST. DOUBLE 24" CONC. PIPE WITH MITERED END SECTIONS
ADD LR BASE TO 1/2 PIPE DEPTH

131.90
130.5
208+50

132.90
131.9
206

135.90
134.9
205+50

137.90
136.7
205

137.40
136.9
Beam 133.5
204+50

142.41
138.4
203+74

142.44
139.0
131.4
203+24

142.84
139.3
202+74

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WORK & FIELD COPY

ORIGINAL PLANS - PAGE 9 OF 9 - 5/8/87

WOODBOROUGH, INC.
WOODBOROUGH SUBDIVISION

WOODBOROUGH
Sheet 9 of 9
VERT - 1" = 5'
HORIZ - 1" = 10'

Application No.
Route No.
Original Plotted by
" Checked by
Template by
Area by
Finals Plotted by
" Checked by
Area by
" Checked by

(A.R.COOSWELL ARC-3VR) N81276